

WCS

SECTION

WARNING CHIME SYSTEM

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APPLICATION NOTICE

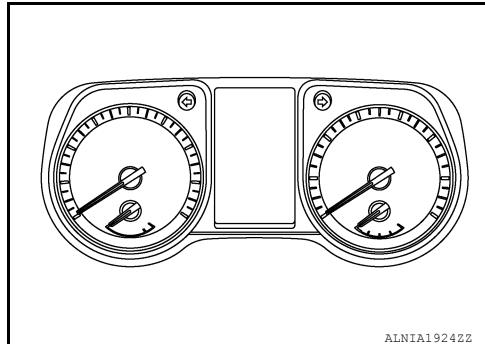
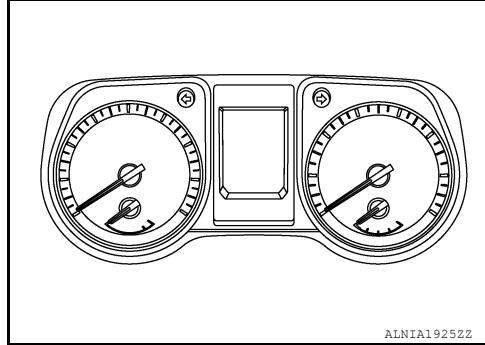
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HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:000000014386691

Service information	Design of combination meter
TYPE A	 ALNIA1924ZZ
TYPE B	 ALNIA1925ZZ

A

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< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000014664650

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

WARNING:

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

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

WARNING:

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

COMPONENT PARTS

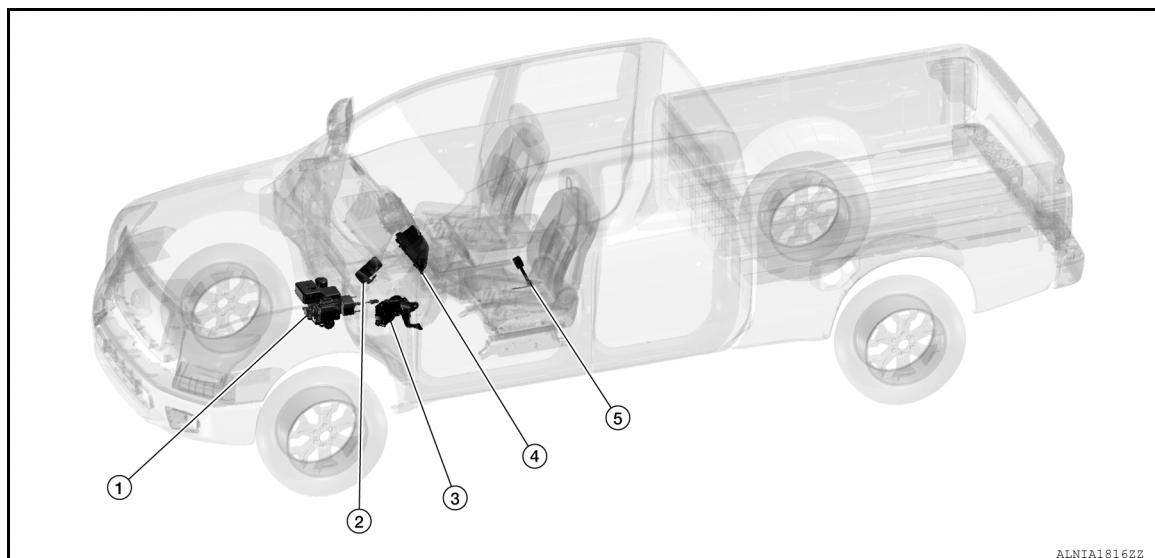
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000014386693



ALNIA1816ZZ

No.	Component	Function
1.	ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication. Refer to BRC-9, "Component Parts Location" for detailed installation location.
2.	BCM	Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication. Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
3.	Parking brake switch	Transmits the parking brake switch signal to the combination meter.
4.	Combination meter	<ul style="list-style-type: none">• Receives a buzzer output signal from the BCM via CAN communication and sounds the buzzer.• Judges whether the parking brake is released using the vehicle speed signal and the parking brake switch signal, and sounds the buzzer if necessary.
5.	Seat belt buckle switch LH	Transmits a seat belt buckle switch signal LH to the combination meter.

Combination Meter

INFOID:0000000014386694

The combination meter has a built-in buzzer (1) and sounds the following warnings, according to signals from each switch and unit:

- Light reminder warning
- Parking brake release warning chime
- Seat belt warning

TYPE A

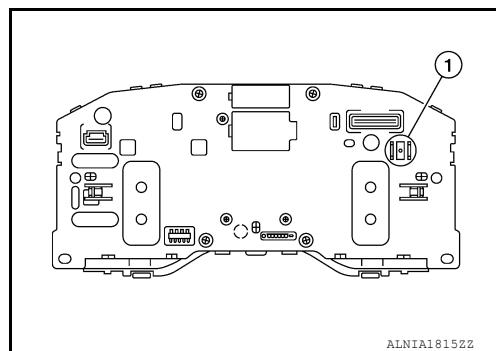
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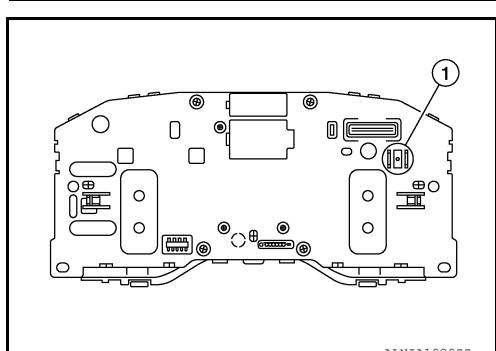
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COMPONENT PARTS

< SYSTEM DESCRIPTION >



TYPE B



SYSTEM

< SYSTEM DESCRIPTION >

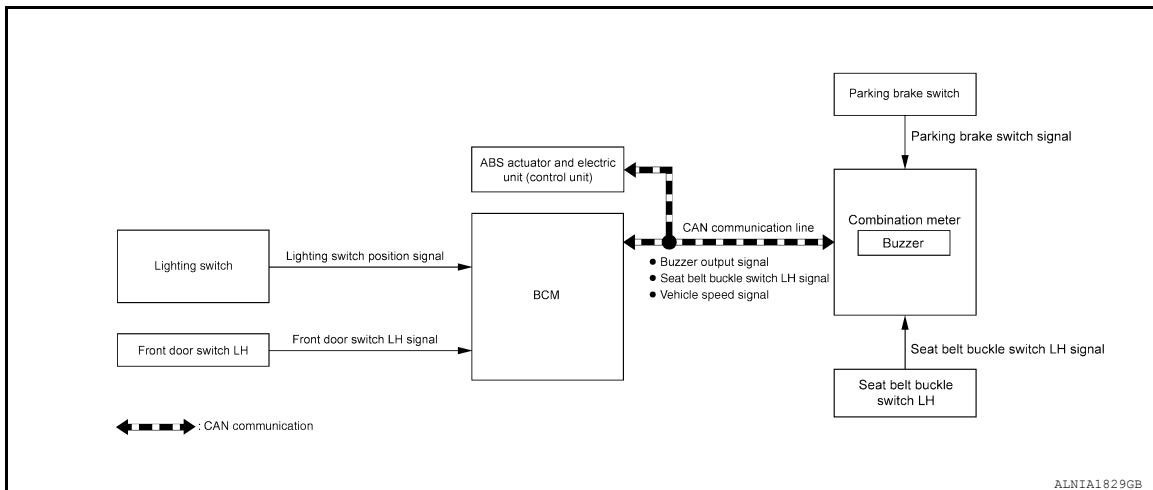
SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Description

INFOID:000000014386695

SYSTEM DIAGRAM



DESCRIPTION

Combination Meter

The combination meter sounds the alarm buzzer installed in the combination meter when receiving the buzzer output signal transmitted from each unit.

BCM

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

WARNING CHIME FUNCTION LIST

Warning functions	Refer to
Light reminder warning	WCS-8, "WARNING CHIME : Light Reminder Warning"
Parking brake release warning chime	WCS-9, "WARNING CHIME : Parking Brake Release Warning Chime"
Seat belt warning	WCS-10, "WARNING CHIME : Seat Belt Warning"

COMBINATION METER INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

Signal name	Transmit unit
Vehicle speed signal	ABS actuator and electric unit (control unit)
Buzzer output signal	BCM

Output signal

Signal name	Reception unit
Vehicle speed signal	BCM

WCS

BCM INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

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SYSTEM

< SYSTEM DESCRIPTION >

Signal name	Transmit unit
Vehicle speed signal	Combination meter

Output signal

Signal name	Reception unit
Buzzer output signal	Combination meter

WARNING CHIME SYSTEM : Fail-Safe

INFOID:000000014386696

The combination meter activates the fail-safe control, if CAN communication with each unit is malfunctioning.

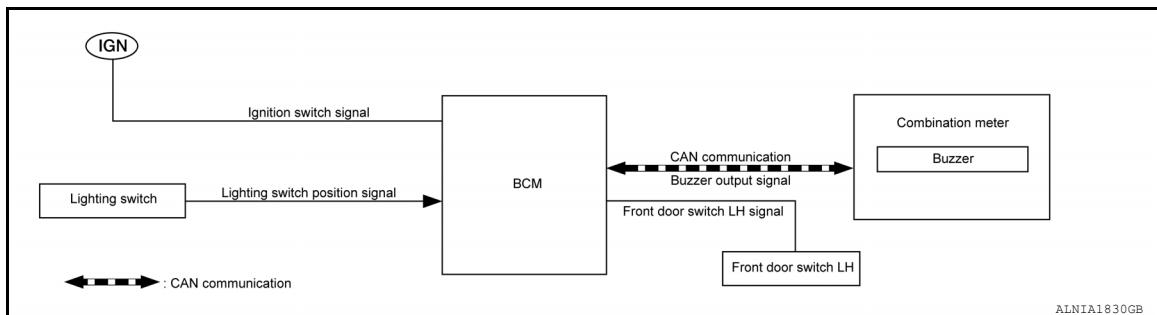
Function	Specifications
Buzzer	The buzzer turns OFF by suspending communication.

WARNING CHIME

WARNING CHIME : Light Reminder Warning

INFOID:000000014386697

SYSTEM DIAGRAM



WARNING CHIME OPERATION CONDITIONS

If all of the following conditions are fulfilled:

Operation conditions	
Ignition switch	OFF
Lighting switch	1st or 2nd position
Driver side door	Open (front door switch LH ON)

WARNING CHIME CANCEL CONDITIONS

Warning is canceled if any of the following conditions are fulfilled:

Operation conditions	
Ignition switch	ON
Lighting switch	OFF or AUTO position
Driver side door	Closed (front door switch LH OFF)

SIGNAL PATH

1. BCM requires warning chime output to combination meter when it judges light reminder warning chime is necessary from signals below.

SYSTEM

< SYSTEM DESCRIPTION >

Signal name	Signal source
Ignition switch signal	—
Lighting switch signal	Lighting switch  BCM
Driver door switch signal	Front door switch LH  BCM

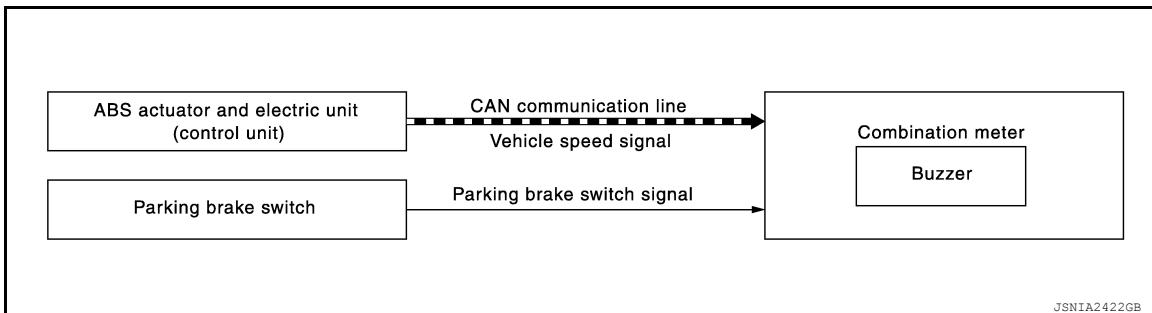
2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

Signal name	Signal source
Buzzer output signal	BCM → CAN → Combination meter

WARNING CHIME : Parking Brake Release Warning Chime

INFOID:0000000014386698

SYSTEM DIAGRAM



WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled:

Operation conditions	
Ignition switch	ON
Parking brake	During the operation (parking brake switch ON)
Vehicle speed	Approximately 4.3 MPH (7 km/h) or more

WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions are fulfilled:

Operation conditions	
Ignition switch	OFF
Parking brake	Release condition (parking brake switch OFF)
Vehicle speed	Approximately 1.9 MPH (3 km/h) or less

SIGNAL PATH

Combination meter sounds integrated buzzer when it judges that parking brake release warning chime is necessary from signals below.

Signal name	Signal source
Ignition switch signal	—
Parking brake switch signal	Parking brake switch  Combination meter
Vehicle speed signal	ABS actuator and electric unit (control unit)   Combination meter

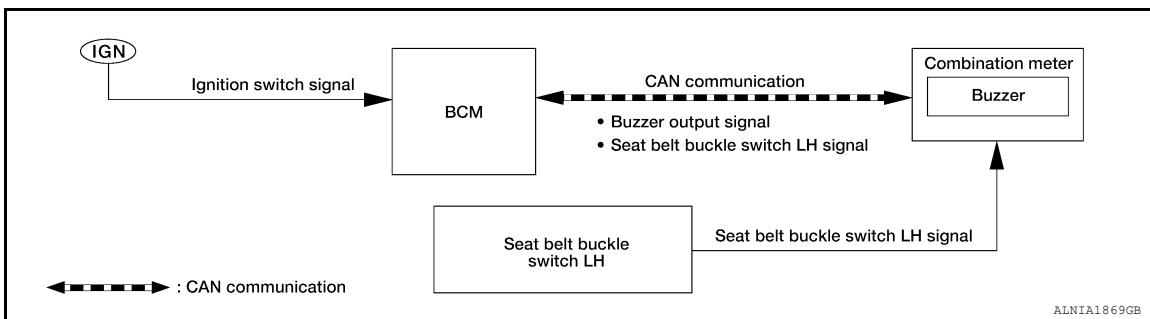
SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME : Seat Belt Warning

INFOID:000000014386699

SYSTEM DIAGRAM



WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled:

Operation conditions	
Ignition switch	ON
Seat belt buckle switch LH	Unfastened (seat belt buckle switch LH ON)

WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions are fulfilled:

Operation conditions	
Ignition switch	OFF
Seat belt buckle switch LH	Fastened (seat belt buckle switch LH OFF)
6 seconds after the start of warning sound	

SIGNAL PATH

1. BCM requires warning chime output to combination meter, when it judges seat belt warning chime is necessary from signals below.

Signal name	Signal source
Ignition switch signal	—
Seat belt buckle switch LH signal	Seat belt buckle switch LH → Combination meter → CAN → BCM

2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

Signal name	Signal source
Buzzer output signal	BCM → CAN → Combination meter

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (COMBINATION METER)

TYPE A

TYPE A : On Board Diagnosis Function

INFOID:000000014664654

COMBINATION METER SELF-DIAGNOSIS MODE

The following meter functions can be checked during Combination Meter Self-Diagnosis Mode:

- Pointer sweep of speedometer, tachometer and gauges
- Illumination of all LCD segments and color patterns for meter displays
- Illumination of all lamps/LEDs that are controlled by the combination meter (regardless of switch status)

STARTING COMBINATION METER SELF-DIAGNOSIS MODE

NOTE:

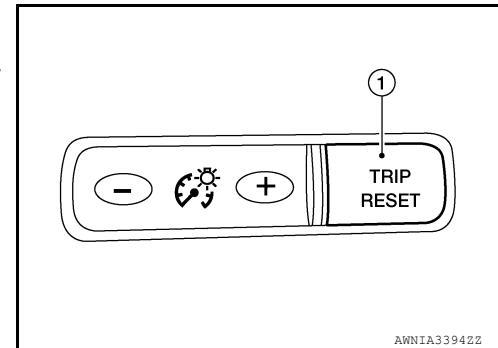
- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to [WCS-43, "COMBINATION METER \(TYPE A\) : Diagnosis Procedure"](#). Replace combination meter if power supply and ground circuits are found to be normal and self-diagnosis mode does not start. Refer to [MWI-108, "Removal and Installation"](#).
- Combination meter self-diagnosis mode will function with the ignition switch in ON. Combination meter self-diagnosis mode will exit upon turning the ignition switch to OFF.

How to Initiate Self-Diagnosis Mode

1. Turn ignition switch OFF.
2. While pressing the trip reset switch (1), turn ignition switch ON.
3. Keep pressing the trip reset switch for 1 second or more.
4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
5. "Work instruction code" is indicated in the top portion of information display and self-diagnosis is started.
6. The mode switches in the order shown below each time the trip reset switch is pressed.

NOTE:

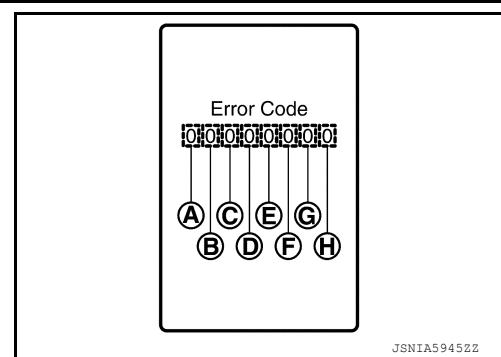
If the trip reset switch is not operated for 20 seconds or more, the self-diagnosis mode is automatically canceled.



Test order	Test item	Description
1	Work instruction code	This item is displayed, but not used.
2	Part number	
3	Software code	
4	EEPROM code	
5	Hardware code	
6	P.C.B code	
7	Circuit check	<p>The pointer of the following items moves from 0 to MAX twice:</p> <ul style="list-style-type: none">• Speedometer• Tachometer• Engine coolant temperature gauge• Fuel gauge <p>NOTE: If any of the pointers does not sweep, replace combination meter.</p>
8	Color check	Performs the color check of the information display.
9	Error code	Displays the error code of the following items: <ul style="list-style-type: none">• Speedometer• Tachometer• Engine coolant temperature gauge• Fuel gauge• Meter control switch
10	Warning/indicator lamp check	All warning/indicator lamps illuminate.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >



Item		Code	Description	Action to take/Reference
(A)	Speedometer	0	Normal	—
		1	A vehicle speed signal cannot be received from ABS actuator and electric unit (control unit).	Perform "Self Diagnostic Result" of "ABS." Refer to MWI-36, "DTC Index" .
		2	A vehicle speed signal received from the ABS actuator and electric unit (control unit) is abnormal.	
(B)	Tachometer	0	Normal	—
		1	An engine speed signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to EC-837, "DTC Index" (Cummins 5.0L) or EC-136, "DTC Index" (VK56VD).
(C)	Fuel gauge	0	Normal	—
		1	Fuel gauge circuit is shorted.	Refer to MWI-91, "Component Function Check (Cummins 5.0L)" or MWI-91, "Component Function Check (VK56VD)" .
		2	Fuel gauge circuit is open.	
(D)	Engine coolant temperature gauge	0	Normal	—
		1	An engine coolant temperature signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to EC-837, "DTC Index" (Cummins 5.0L) or EC-136, "DTC Index" (VK56VD).
(E)	Meter control switch	0	Normal	—
		1	When judging that the illumination control switch signal circuit is shorted for 5 minutes or more.	Refer to MWI-89, "Diagnosis Procedure" .
		2	When judging that the trip reset switch signal circuit is shorted for 5 minutes or more.	
		3	When judging that both switch signal circuit are shorted for 5 minutes or more.	
(F)	—	0	Displays "0" constantly.	—
(G)	—	0	Displays "0" constantly.	—
(H)	—	0	Displays "0" constantly.	—

How to Reset Error Code

Error codes stored in combination meter can be reset by following the instructions below:

1. Turn ignition switch OFF.
2. While pressing the trip reset switch, turn ignition switch ON.
3. Keep pressing the trip reset switch for 1 second or more.
4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
5. Turn ignition switch OFF.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

6. Perform self-diagnosis and check that the error codes are reset.

TYPE A : CONSULT Function (METER/M&A)

INFOID:000000014664655

APPLICATION ITEMS

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

METER/M&A Diagnosis mode	Description
Self Diagnostic Result	Displays combination meter self-diagnosis results.
Data Monitor	Displays combination meter input/output data in real time.
Work support	Displays diagnosis procedure of each work item.
Warning History	Lighting history of the warning lamp and indicator lamp can be checked.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

SELF DIAG RESULT

Refer to [MWI-36, "DTC Index"](#).

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER	X	Displays the value of vehicle speed signal.
SPEED OUTPUT [mph or km/h]	X	Vehicle speed signal value transmitted to other units via CAN communication.
ODO OUTPUT [mph or km/h]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	X	Value of the engine speed signal received from ECM via CAN communication.
FUEL METER [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°F] or [°C]	X	Displays the value of engine coolant temperature signal, which is input from ECM.
ABS W/L [On/Off]		Displays [ON/OFF] condition of ABS warning indicator.
VDC/TCS IND [On/Off]		Displays [ON/OFF] condition of VDC OFF indicator lamp.
SLIP IND [On/Off]		Displays [ON/OFF] condition of SLIP indicator lamp.
BRAKE W/L [On/Off]		Displays [ON/OFF] condition of brake warning indicator.
DOOR W/L [On/Off]		Displays [ON/OFF] condition of door warning message in the information display.
HI-BEAM IND [On/Off]		Displays [ON/OFF] condition of high beam indicator.
TURN IND [On/Off]		Displays [ON/OFF] condition of turn indicator.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
OIL W/L [On/Off]		Displays [ON/OFF] condition of low oil pressure warning message in the information display.
MIL [On/Off]		Displays [ON/OFF] condition of malfunction indicator.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
C-ENG2 W/L [On/Off]		Displays [ON/OFF] condition of malfunction indicator lamp (red).
ATC/T-AMT W/L [Off]		Displays [ON/OFF] condition of A/T check warning indicator.
4WD W/L [On/Off]		Displays [ON/OFF] condition of 4WD warning lamp.
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message in the information display.
WASHER W/L [On/Off]		Displays [ON/OFF] condition of low washer fluid warning message in the information display.
AIR PRES W/L [On/Off]		Displays [ON/OFF] condition of tire pressure warning lamp.
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.
DDS W/L ^(Note 1) [On/Off]		Displays [ON/OFF] condition of hill descent control indicator lamp.
CHAGE W/L [On/Off]		Displays [ON/OFF] condition of charge warning lamp.
DPF W/L [On/Off]		Displays [ON/OFF] condition of DPF warning lamp detected from DPF (Diesel particulate filter) warning lamp signal is received from ECM via CAN communication.
ATP W/L [On/Off]		Displays [ON/OFF] condition of ATP warning lamp.
FILTER W/L [On/Off]		Displays [ON/OFF] condition of water in fuel warning lamp.
SHIFT IND [P, R, N, D]		Displays shift selector position.
LCD		Displays status of Intelligent Key system.
4WD IND [LOCK, 2W, 4L, 4H, MALF]		Displays status of 4WD.
TOW MODE IND [On/Off]		Displays [ON/OFF] condition of tow mode indicator.
M RANGE SW [On/Off]		Displays [ON/OFF] condition of manual mode switch.
NM RANGE SW [On/Off]		Displays [ON/OFF] condition of non-manual mode switch.
AT SFT UP SW [On/Off]		Displays [ON/OFF] condition of manual mode shift up switch.
AT SFT DWN SW [On/Off]		Displays [ON/OFF] condition of manual mode shift down switch.
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the engine coolant temperature and the acceleration degree.
FUEL CAP W/L [On/Off]		Displays [ON/OFF] condition of loose fuel cap warning message in the information display.
PKB SW [On/Off]		Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch LH.
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.
PASS BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch RH.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
TOW MODE SW [On/Off]		Displays [ON/OFF] condition of tow mode switch.
LED LMP R OPEN [On/Off]		Displays [ON/OFF] condition of LED headlamp (RH) warning message.
LED LMP L OPEN [On/Off]		Displays [ON/OFF] condition of LED headlamp (LH) warning message.
DIFF LOCK IND [On/Off]		Displays [ON/OFF] condition of electronic locking rear differential indicator.
DISTANCE [Mi] or [km]		Displays distance to empty.
OUTSIDE TEMP [°F or °C]		Displays the ambient air temperature which is input from the ambient sensor.
FUEL LOW SIG [On/Off]		Displays [ON/OFF] condition of low-fuel warning signal.
BUZZER [On/Off]	X	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.
ASCD SPD BLNK [On/Off]		Displays [ON/OFF] condition of blinking status of ASCD or speed limiter set vehicle speed that is judged by the ASCD status signal received from ECM via CAN communication.
ASCD STATUS [Off, ASCD, CRUISE]		Display status of ASCD and speed limiter status display judged by the ASCD status signal received from ECM via CAN communication.
ASCD REQ SPD [km/h or mph]		ASCD set vehicle speed value judged by the ASCD status signal received from ECM via CAN communication.
E/O CHG TMNG RST [On/Off]		Displays [ON/OFF] condition of resetting remaining distance to the engine oil change time.
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of tire pressure low message in the information display.

Note 1: CONSULT will display DDS (Downhill Drive Support) when referring to the Hill descent control system.

WORK SUPPORT

Work support item	Description
Outside air temperature diagnosis	
Fuel meter diagnosis (Analog pointer)	A possible malfunction can be narrowed down by following the displayed instructions.
Warning/Indicator lamp diagnosis	

WARNING HISTORY

Special menu

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Display item	Description
W/L ON HISTORY	Lighting history of warning lamp and indicator lamp can be checked.

W/L ON HISTORY

- “W/L ON HISTORY” indicates the “TIME” when the warning/indicator lamp is turned on.
- The “TIME” above is:
 - 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
 - 1 - 39: The number of times the engine was restarted after the 0 condition.
 - NO W/L ON HISTORY: No warning/indicator lamp history is stored.

NOTE:

- “W/L ON HISTORY” is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

TYPE B

TYPE B : On Board Diagnosis Function

INFOID:0000000014664657

COMBINATION METER SELF-DIAGNOSIS MODE

The following meter functions can be checked during Combination Meter Self-Diagnosis Mode:

- Pointer sweep of speedometer, tachometer and gauges
- Illumination of all LCD segments and color patterns for meter displays
- Illumination of all lamps/LEDs that are controlled by the combination meter (regardless of switch status)

STARTING COMBINATION METER SELF-DIAGNOSIS MODE

NOTE:

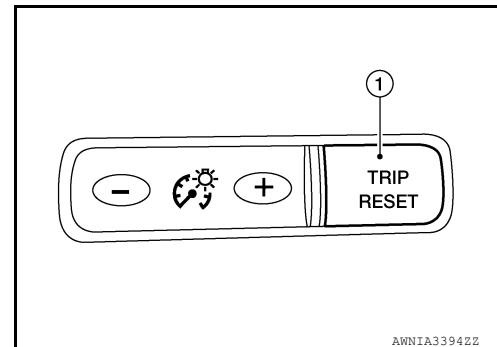
- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to [WCS-43, "COMBINATION METER \(TYPE B\) : Diagnosis Procedure"](#). Replace combination meter if power supply and ground circuits are found to be normal and self-diagnosis mode does not start. Refer to [MWI-187, "Removal and Installation"](#).
- Combination meter self-diagnosis mode will function with the ignition switch in ON. Combination meter self-diagnosis mode will exit upon turning the ignition switch to OFF.

How to Initiate Self-Diagnosis Mode

1. Turn ignition switch OFF.
2. While pressing the trip reset switch (1), turn ignition switch ON.
3. Keep pressing the trip reset switch for 1 second or more.
4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
5. "Work instruction code" is indicated in the top portion of information display and self-diagnosis is started.
6. The mode switches in the order shown below each time the trip reset switch is pressed.

NOTE:

If the trip reset switch is not operated for 20 seconds or more, the self-diagnosis mode is automatically canceled.

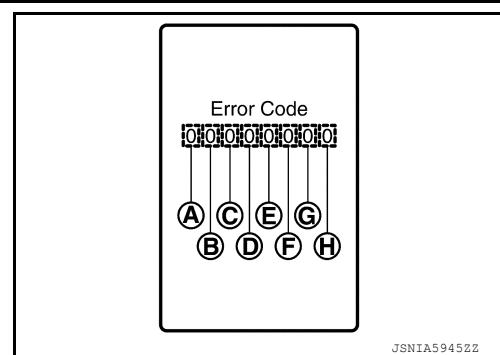


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Test order	Test item	Description
1	Work instruction code	This item is displayed, but not used.
2	Part number	
3	Software code	
4	EEPROM code	
5	Hardware code	
6	P.C.B code	
7	Circuit check	The pointer of the following items moves from 0 to MAX twice: <ul style="list-style-type: none">• Speedometer• Tachometer• Engine coolant temperature gauge• Fuel gauge NOTE: If any of the pointers does not sweep, replace combination meter.
8	LCD segment check	Performs the LCD segment check of the information display.
9	Error code	Displays the error code of the following items: <ul style="list-style-type: none">• Speedometer• Tachometer• Engine coolant temperature gauge• Fuel gauge• Meter control switch
10	Warning/indicator lamp check	All warning/indicator lamps illuminate.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >



Item	Code	Description	Action to take/Reference
(A) Speedometer	0	Normal	—
	1	A vehicle speed signal cannot be received from ABS actuator and electric unit (control unit).	Perform "Self Diagnostic Result" of "ABS." Refer to MWI-139, "DTC Index" .
	2	A vehicle speed signal received from the ABS actuator and electric unit (control unit) is abnormal.	Refer to MWI-139, "DTC Index" .
(B) Tachometer	0	Normal	—
	1	An engine speed signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to MWI-139, "DTC Index" .
(C) Fuel gauge	0	Normal	—
	1	Fuel gauge circuit is shorted.	Refer to MWI-172, "Component Function Check" .
	2	Fuel gauge circuit is open.	Refer to MWI-172, "Component Function Check" .
(D) Engine coolant temperature gauge	0	Normal	—
	1	An engine coolant temperature signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to MWI-139, "DTC Index" .
(E) Meter control switch	0	Normal	—
	1	When judging that the illumination control switch signal circuit is shorted for 5 minutes or more.	Refer to MWI-170, "Diagnosis Procedure" .
	2	When judging that the trip reset switch signal circuit is shorted for 5 minutes or more.	Refer to MWI-170, "Diagnosis Procedure" .
	3	When judging that both switch signal circuit are shorted for 5 minutes or more.	Refer to MWI-170, "Diagnosis Procedure" .
(F)	—	0	Displays "0" constantly.
(G)	—	0	Displays "0" constantly.
(H)	—	0	Displays "0" constantly.

How to Reset Error Code

Error codes stored in combination meter can be reset by following the instructions below:

1. Turn ignition switch OFF.
2. While pressing the trip reset switch, turn ignition switch ON.
3. Keep pressing the trip reset switch for 1 second or more.
4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
5. Turn ignition switch OFF.
6. Perform self-diagnosis and check that the error codes are reset.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

TYPE B : CONSULT Function (METER/M&A)

INFOID:000000014664658

APPLICATION ITEMS

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

METER/M&A Diagnosis mode	Description
Self Diagnostic Result	Displays combination meter self-diagnosis results.
Data Monitor	Displays combination meter input/output data in real time.
Work support	Displays diagnosis procedure of each work item.
Warning History	Lighting history of the warning lamp and indicator lamp can be checked.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

SELF DIAG RESULT

Refer to [MWI-139, "DTC Index".](#)

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER	X	Displays the value of vehicle speed signal.
SPEED OUTPUT [mph or km/h]	X	Vehicle speed signal value transmitted to other units via CAN communication.
ODO OUTPUT [mph or km/h]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	X	Value of the engine speed signal received from ECM via CAN communication.
FUEL METER [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°F] or [°C]	X	Displays the value of engine coolant temperature signal, which is input from ECM.
ABS W/L [On/Off]		Displays [ON/OFF] condition of ABS warning indicator.
VDC/TCS IND [On/Off]		Displays [ON/OFF] condition of VDC OFF indicator lamp.
SLIP IND [On/Off]		Displays [ON/OFF] condition of SLIP indicator lamp.
BRAKE W/L [On/Off]		Displays [ON/OFF] condition of brake warning indicator.
DOOR W/L [On/Off]		Displays [ON/OFF] condition of door warning message in the information display.
HI-BEAM IND [On/Off]		Displays [ON/OFF] condition of high beam indicator.
TURN IND [On/Off]		Displays [ON/OFF] condition of turn indicator.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
OIL W/L [On/Off]		Displays [ON/OFF] condition of low oil pressure warning message in the information display.
MIL [On/Off]		Displays [ON/OFF] condition of malfunction indicator.
C-ENG2 W/L [On/Off]		Displays [ON/OFF] condition of malfunction indicator lamp (red).

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
ATC/T-AMT W/L [Off]		Displays [ON/OFF] condition of A/T check warning indicator.	A
4WD W/L [On/Off]		Displays [ON/OFF] condition of 4WD warning lamp.	B
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message in the information display.	C
WASHER W/L [On/Off]		Displays [ON/OFF] condition of low washer fluid warning message in the information display.	D
AIR PRES W/L [On/Off]		Displays [ON/OFF] condition of tire pressure warning lamp.	E
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.	F
DDS W/L ^(Note 1) [On/Off]		Displays [ON/OFF] condition of hill descent control indicator lamp.	G
CHAGE W/L [On/Off]		Displays [ON/OFF] condition of charge warning lamp.	H
DPF W/L [On/Off]		Displays [ON/OFF] condition of DPF warning lamp detected from DPF (Diesel particulate filter) warning lamp signal is received from ECM via CAN communication.	I
ATP W/L [On/Off]		Displays [ON/OFF] condition of ATP warning lamp.	J
FILTER W/L [On/Off]		Displays [ON/OFF] condition of water in fuel warning lamp.	K
SHIFT IND [P, R, N, D]		Displays shift selector position.	L
LCD		Displays status of Intelligent Key system.	M
4WD IND [LOCK, 2W, 4L, 4H, MALF]		Displays status of 4WD.	N
TOW MODE IND [On/Off]		Displays [ON/OFF] condition of tow mode indicator.	O
M RANGE SW [On/Off]		Displays [ON/OFF] condition of manual mode switch.	P
NM RANGE SW [On/Off]		Displays [ON/OFF] condition of non-manual mode switch.	WCS
AT SFT UP SW [On/Off]		Displays [ON/OFF] condition of manual mode shift up switch.	WCS
AT SFT DWN SW [On/Off]		Displays [ON/OFF] condition of manual mode shift down switch.	WCS
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the engine coolant temperature and the acceleration degree.	WCS
FUEL CAP W/L [On/Off]		Displays [ON/OFF] condition of loose fuel cap warning message in the information display.	WCS
PKB SW [On/Off]		Displays [ON/OFF] condition of parking brake switch.	WCS
BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch LH.	WCS
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.	WCS
PASS BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch RH.	WCS
TOW MODE SW [On/Off]		Displays [ON/OFF] condition of tow mode switch.	WCS

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
LED LMP R OPEN [On/Off]		Displays [ON/OFF] condition of LED headlamp (RH) warning message.
LED LMP L OPEN [On/Off]		Displays [ON/OFF] condition of LED headlamp (LH) warning message.
DIFF LOCK IND [On/Off]		Displays [ON/OFF] condition of electronic locking rear differential indicator.
DISTANCE [Mi] or [km]		Displays distance to empty.
OUTSIDE TEMP [°F or °C]		Displays the ambient air temperature which is input from the ambient sensor.
FUEL LOW SIG [On/Off]		Displays [ON/OFF] condition of low-fuel warning signal.
BUZZER [On/Off]	X	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.
ASCD SPD BLNK [On/Off]		Displays [ON/OFF] condition of blinking status of ASCD or speed limiter set vehicle speed that is judged by the ASCD status signal received from ECM via CAN communication.
ASCD STATUS [Off, ASCD, CRUISE]		Display status of ASCD and speed limiter status display judged by the ASCD status signal received from ECM via CAN communication.
ASCD REQ SPD [km/h or mph]		ASCD set vehicle speed value judged by the ASCD status signal received from ECM via CAN communication.
E/O CHG TMNG RST [On/Off]		Displays [ON/OFF] condition of resetting remaining distance to the engine oil change time.
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of tire pressure low message in the information display.

Note 1: CONSULT will display DDS (Downhill Drive Support) when referring to the Hill descent control system.

WORK SUPPORT

Work support item	Description
Outside air temperature diagnosis	A possible malfunction can be narrowed down by following the displayed instructions.
Fuel meter diagnosis (Analog pointer)	
Warning/Indicator lamp diagnosis	

WARNING HISTORY

Special menu

Display item	Description
W/L ON HISTORY	Lighting history of warning lamp and indicator lamp can be checked.

W/L ON HISTORY

- “W/L ON HISTORY” indicates the “TIME” when the warning/indicator lamp is turned on.
- The “TIME” above is:
 - 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
 - 1 - 39: The number of times the engine was restarted after the 0 condition.
 - NO W/L ON HISTORY: No warning/indicator lamp history is stored.

NOTE:

- “W/L ON HISTORY” is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000014664651

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none">The vehicle specification can be read and saved.The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions:

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected
Vehicle Condition	SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK").
	SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF").
	LOCK>ACC	While turning power supply position from "LOCK" *to "ACC"
	ACC>ON	While turning power supply position from "ACC" to "IGN"
	RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)
	CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF	While turning power supply position from "ACC" to "OFF"
	OFF>LOCK	While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC	While turning power supply position from "OFF" to "ACC"
	ON>CRANK	While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode
	LOCK	Power supply position is "LOCK" (Ignition switch OFF)*
	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	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched 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:0000000014664652

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.

ACTIVE TEST

Test Item	Description
SEAT BELT WARN TEST	This test is able to check seat belt warning chime operation [On/Off].
LIGHT WARN ALM	This test is able to check light warning chime operation [On/Off].
REVERSE WARNING	This test is able to check reverse warning chime operation [On/Off].

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

BCM, COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM, COMBINATION METER

List of ECU Reference

INFOID:000000014386706

ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-51, "Fail_Safe"
	BCS-51, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"
COMBINATION METER (Type A)	MWI-30, "Reference Value"
	MWI-35, "Fail-safe"
	MWI-36, "DTC Index"
COMBINATION METER (Type B)	MWI-134, "Reference Value"
	MWI-139, "Fail-safe"
	MWI-139, "DTC Index"

WARNING CHIME SYSTEM

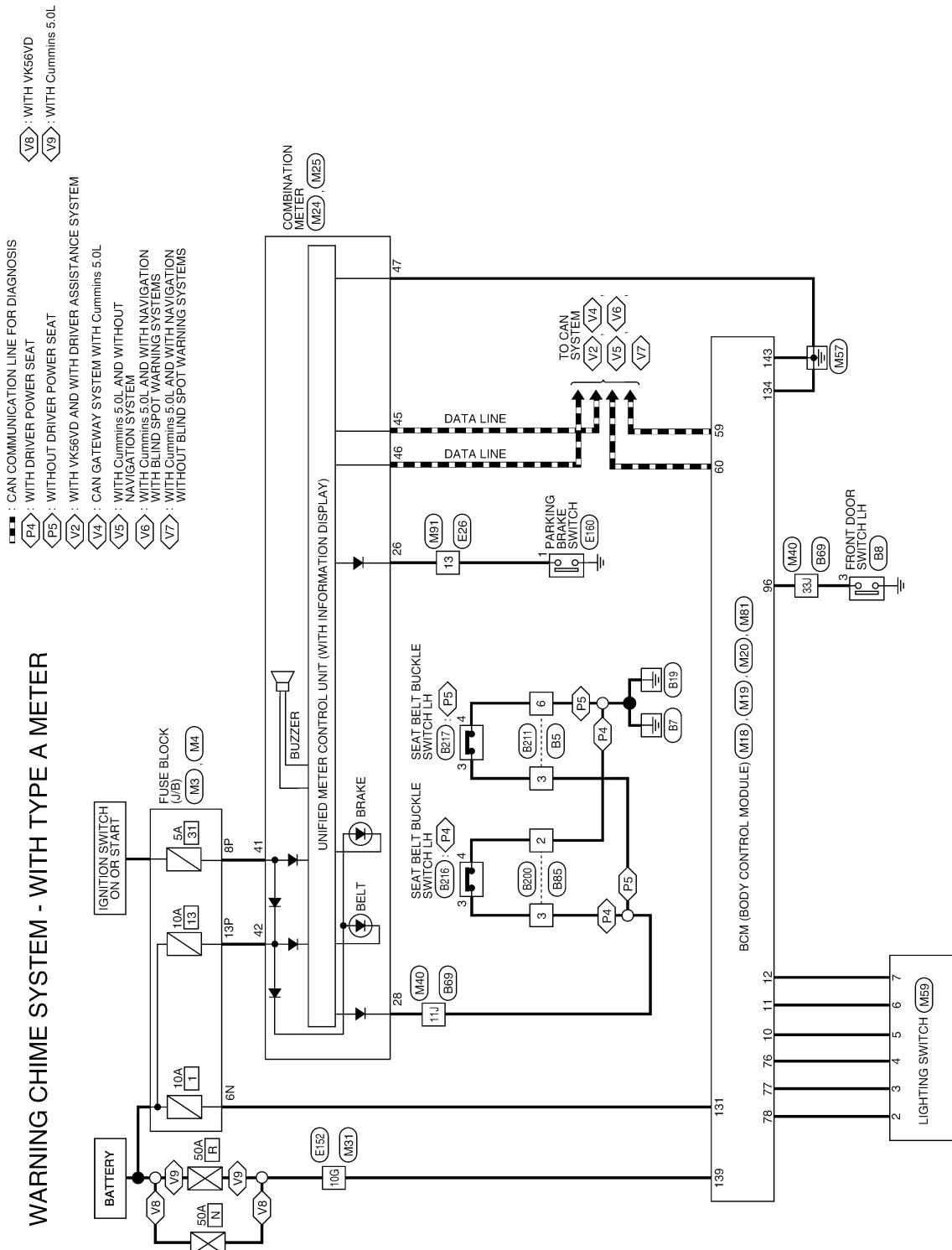
< WIRING DIAGRAM >

WIRING DIAGRAM

WARNING CHIME SYSTEM

INFOID:0000000014386707

WARNING CHIME SYSTEM - WITH TYPE A METER



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

WARNING CHIME SYSTEM

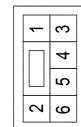
< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS
Connector Color	WHITE



Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE



Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE



28J	L	TO MAIN HARNESS
29J	G/O	TO MAIN HARNESS
30J	SB	TO MAIN HARNESS
31J	LG	TO MAIN HARNESS
32J	R	TO MAIN HARNESS
33J	L	TO MAIN HARNESS
34J	Y	TO MAIN HARNESS
35J	P	TO MAIN HARNESS
36J	Q/R	TO MAIN HARNESS
37J	L/G/B	TO MAIN HARNESS
38J	SB	TO MAIN HARNESS
39J	Y/L	TO MAIN HARNESS
40J	BR	TO MAIN HARNESS
41J	L	TO MAIN HARNESS
42J	L	TO MAIN HARNESS
43J	SB	TO MAIN HARNESS
44J	BR	TO MAIN HARNESS
45J	BG	TO MAIN HARNESS
46J	P/Y	TO MAIN HARNESS
47J	Y/G/R	TO MAIN HARNESS
48J	V	TO MAIN HARNESS
49J	BR/Y	TO MAIN HARNESS
50J	GW	TO MAIN HARNESS
51J	-	TO MAIN HARNESS
52J	SHIELD	TO MAIN HARNESS
53J	R	TO MAIN HARNESS
54J	L	TO MAIN HARNESS
55J	R	TO MAIN HARNESS
56J	W	TO MAIN HARNESS
57J	L/G	TO MAIN HARNESS
58J	O	TO MAIN HARNESS
59J	-	TO MAIN HARNESS
60J	SHIELD	TO MAIN HARNESS
61J	G	TO MAIN HARNESS
62J	-	TO MAIN HARNESS
63J	RW	TO MAIN HARNESS
64J	L/N	TO MAIN HARNESS
65J	SHIELD	TO MAIN HARNESS
66J	B	TO MAIN HARNESS
67J	SHIELD	TO MAIN HARNESS
68J	OL	TO MAIN HARNESS
69J	SHIELD	TO MAIN HARNESS
70J	BR	TO MAIN HARNESS
71J	L/W	TO MAIN HARNESS
72J	-	TO MAIN HARNESS
73J	-	TO MAIN HARNESS
74J	SHIELD	TO MAIN HARNESS
75J	L/G/B	TO MAIN HARNESS
76J	R	TO MAIN HARNESS
77J	SHIELD	TO MAIN HARNESS
78J	G/R/B	TO MAIN HARNESS
79J	B	TO MAIN HARNESS

80J	W	TO MAIN HARNESS
81J	SHIELD	TO MAIN HARNESS
82J	L/R	TO MAIN HARNESS
83J	-	TO MAIN HARNESS
84J	-	TO MAIN HARNESS
85J	Y/B	TO MAIN HARNESS
86J	G	TO MAIN HARNESS
87J	B/R	TO MAIN HARNESS
88J	SHIELD	TO MAIN HARNESS
89J	GR/R	TO MAIN HARNESS
90J	L	TO MAIN HARNESS
91J	L/B	TO MAIN HARNESS
92J	SB	TO MAIN HARNESS
93J	B	TO MAIN HARNESS
94J	L	TO MAIN HARNESS
95J	LG	TO MAIN HARNESS
96J	R	TO MAIN HARNESS
97J	BY	TO MAIN HARNESS
98J	LB	TO MAIN HARNESS
99J	WL	TO MAIN HARNESS
100J	SB	TO MAIN HARNESS

28J	L	TO MAIN HARNESS
29J	G/O	TO MAIN HARNESS
30J	SB	TO MAIN HARNESS
31J	LG	TO MAIN HARNESS
32J	R	TO MAIN HARNESS
33J	L	TO MAIN HARNESS
34J	Y	TO MAIN HARNESS
35J	P	TO MAIN HARNESS
36J	Q/R	TO MAIN HARNESS
37J	L/G/B	TO MAIN HARNESS
38J	SB	TO MAIN HARNESS
39J	Y/L	TO MAIN HARNESS
40J	BR	TO MAIN HARNESS
41J	L	TO MAIN HARNESS
42J	L	TO MAIN HARNESS
43J	SB	TO MAIN HARNESS
44J	BR	TO MAIN HARNESS
45J	BG	TO MAIN HARNESS
46J	P/Y	TO MAIN HARNESS
47J	Y/G/R	TO MAIN HARNESS
48J	V	TO MAIN HARNESS
49J	BR/Y	TO MAIN HARNESS
50J	GW	TO MAIN HARNESS
51J	-	TO MAIN HARNESS
52J	SHIELD	TO MAIN HARNESS
53J	R	TO MAIN HARNESS
54J	L	TO MAIN HARNESS
55J	R	TO MAIN HARNESS
56J	W	TO MAIN HARNESS
57J	L/G	TO MAIN HARNESS
58J	O	TO MAIN HARNESS
59J	-	TO MAIN HARNESS
60J	SHIELD	TO MAIN HARNESS
61J	G	TO MAIN HARNESS
62J	-	TO MAIN HARNESS
63J	RW	TO MAIN HARNESS
64J	L/N	TO MAIN HARNESS
65J	SHIELD	TO MAIN HARNESS
66J	B	TO MAIN HARNESS
67J	SHIELD	TO MAIN HARNESS
68J	OL	TO MAIN HARNESS
69J	SHIELD	TO MAIN HARNESS
70J	BR	TO MAIN HARNESS
71J	L/W	TO MAIN HARNESS
72J	-	TO MAIN HARNESS
73J	-	TO MAIN HARNESS
74J	SHIELD	TO MAIN HARNESS
75J	L/G/B	TO MAIN HARNESS
76J	R	TO MAIN HARNESS
77J	SHIELD	TO MAIN HARNESS
78J	G/R/B	TO MAIN HARNESS
79J	B	TO MAIN HARNESS

28J	L	TO MAIN HARNESS
29J	G/O	TO MAIN HARNESS
30J	SB	TO MAIN HARNESS
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32J	R	TO MAIN HARNESS
33J	L	TO MAIN HARNESS
34J	Y	TO MAIN HARNESS
35J	P	TO MAIN HARNESS
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37J	L/G/B	TO MAIN HARNESS
38J	SB	TO MAIN HARNESS
39J	Y/L	TO MAIN HARNESS
40J	BR	TO MAIN HARNESS
41J	L	TO MAIN HARNESS
42J	L	TO MAIN HARNESS
43J	SB	TO MAIN HARNESS
44J	BR	TO MAIN HARNESS
45J	BG	TO MAIN HARNESS
46J	P/Y	TO MAIN HARNESS
47J	Y/G/R	TO MAIN HARNESS
48J	V	TO MAIN HARNESS
49J	BR/Y	TO MAIN HARNESS
50J	GW	TO MAIN HARNESS
51J	-	TO MAIN HARNESS
52J	SHIELD	TO MAIN HARNESS
53J	R	TO MAIN HARNESS
54J	L	TO MAIN HARNESS
55J	R	TO MAIN HARNESS
56J	W	TO MAIN HARNESS
57J	L/G	TO MAIN HARNESS
58J	O	TO MAIN HARNESS
59J	-	TO MAIN HARNESS
60J	SHIELD	TO MAIN HARNESS
61J	G	TO MAIN HARNESS
62J	-	TO MAIN HARNESS
63J	RW	TO MAIN HARNESS
64J	L/N	TO MAIN HARNESS
65J	SHIELD	TO MAIN HARNESS
66J	B	TO MAIN HARNESS
67J	SHIELD	TO MAIN HARNESS
68J	OL	TO MAIN HARNESS
69J	SHIELD	TO MAIN HARNESS
70J	BR	TO MAIN HARNESS
71J	L/W	TO MAIN HARNESS
72J	-	TO MAIN HARNESS
73J	-	TO MAIN HARNESS
74J	SHIELD	TO MAIN HARNESS
75J	L/G/B	TO MAIN HARNESS
76J	R	TO MAIN HARNESS
77J	SHIELD	TO MAIN HARNESS
78J	G/R/B	TO MAIN HARNESS
79J	B	TO MAIN HARNESS

28J	L	TO MAIN HARNESS
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37J	L/G/B	TO MAIN HARNESS
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44J	BR	TO MAIN HARNESS
45J	BG	TO MAIN HARNESS
46J	P/Y	TO MAIN HARNESS
47J	Y/G/R	TO MAIN HARNESS
48J	V	TO MAIN HARNESS
49J	BR/Y	TO MAIN HARNESS
50J	GW	TO MAIN HARNESS
51J	-	TO MAIN HARNESS
52J	SHIELD	TO MAIN HARNESS
53J	R	TO MAIN HARNESS
54J	L	TO MAIN HARNESS
55J	R	TO MAIN HARNESS
56J	W	TO MAIN HARNESS
57J	L/G	TO MAIN HARNESS
58J	O	TO MAIN HARNESS
59J	-	TO MAIN HARNESS
60J	SHIELD	TO MAIN HARNESS
61J	G	TO MAIN HARNESS
62J	-	TO MAIN HARNESS
63J	RW	TO MAIN HARNESS
64J	L/N	TO MAIN HARNESS
65J	SHIELD	TO MAIN HARNESS
66J	B	TO MAIN HARNESS
67J	SHIELD	TO MAIN HARNESS
68J	OL	TO MAIN HARNESS
69J	SHIELD	TO MAIN HARNESS
70J	BR	TO MAIN HARNESS
71J	L/W	TO MAIN HARNESS
72J	-	TO MAIN HARNESS
73J	-	TO MAIN HARNESS
74J	SHIELD	TO MAIN HARNESS
75J	L/G/B	TO MAIN HARNESS
76J	R	TO MAIN HARNESS
77J	SHIELD	TO MAIN HARNESS
78J	G/R/B	TO MAIN HARNESS
79J	B	TO MAIN HARNESS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Terminal No.	Color of Wire	Signal Name
1	R	TO BODY HARNESS
2	P	TO BODY HARNESS
3	BR	TO BODY HARNESS
4	B	TO BODY HARNESS
5	GR	TO BODY HARNESS
6	B	TO BODY HARNESS
7	G	TO BODY HARNESS
8	Y	TO BODY HARNESS (WITH CLIMATE CONTROLLED SEATS)
9	W	TO BODY HARNESS (WITHOUT CLIMATE CONTROLLED SEATS)
9	R	TO BODY HARNESS (WITHOUT CLIMATE CONTROLLED SEATS)
10	LG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	SB	TO BODY HARNESS

H.S.

Terminal No.	Color of Wire	Signal Name
1	—	TO BODY HARNESS LH
2	—	TO BODY HARNESS LH
3	BR	TO BODY HARNESS LH
4	—	TO BODY HARNESS LH
5	—	TO BODY HARNESS LH

H.S.

Terminal No.	Color of Wire	Signal Name
1	—	TO BODY HARNESS LH
2	—	TO BODY HARNESS LH
3	BR	TO BODY HARNESS LH
4	—	TO BODY HARNESS LH

H.S.

Terminal No.	Color of Wire	Signal Name
1	—	TO BODY HARNESS LH
2	—	TO BODY HARNESS LH
3	BR	TO BODY HARNESS LH
4	—	TO BODY HARNESS LH

H.S.

Terminal No.	Color of Wire	Signal Name
1	—	TO BODY HARNESS LH
2	—	TO BODY HARNESS LH
3	BR	TO BODY HARNESS LH
4	—	TO BODY HARNESS LH

H.S.

Terminal No.	Color of Wire	Signal Name
1	—	TO BODY HARNESS LH
2	—	TO BODY HARNESS LH
3	BR	TO BODY HARNESS LH
4	—	TO BODY HARNESS LH

H.S.

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z WCS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	Signal Name	Color of Wire	Terminal No.	Color of Wire	Signal Name
FE152	WIRE TO WIRE	R/W	24G	G/B	TO MAIN HARNESS
			25G	R/W	TO MAIN HARNESS
			26G	R	TO MAIN HARNESS
			27G	LG	TO MAIN HARNESS
			28G	G/B	TO MAIN HARNESS
			29G	G/B	TO MAIN HARNESS
			30G	BR/Y	TO MAIN HARNESS
			31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
			32G	P	TO MAIN HARNESS
			33G	YL	TO MAIN HARNESS
			34G	GR	TO MAIN HARNESS
			35G	GR	TO MAIN HARNESS
			36G	SB	TO MAIN HARNESS
			37G	R/W	TO MAIN HARNESS
			38G	BR	TO MAIN HARNESS
			39G	BR	TO MAIN HARNESS
			40G	—	TO MAIN HARNESS
			41G	R/G	TO MAIN HARNESS
			42G	O	TO MAIN HARNESS
			43G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
			43G	G	TO MAIN HARNESS - (WITH W5610)
			44G	R/Y	TO MAIN HARNESS
			45G	G	TO MAIN HARNESS
			46G	LG	TO MAIN HARNESS
			47G	R	TO MAIN HARNESS
			48G	W	TO MAIN HARNESS
			49G	—	TO MAIN HARNESS
			50G	BR	TO MAIN HARNESS
			51G	R	TO MAIN HARNESS
			52G	L	TO MAIN HARNESS
			53G	W	TO MAIN HARNESS
			54G	W	TO MAIN HARNESS
			55G	G	TO MAIN HARNESS
			56G	W	TO MAIN HARNESS
			57G	Y	TO MAIN HARNESS
			58G	G	TO MAIN HARNESS
			59G	R	TO MAIN HARNESS
			60G	W	TO MAIN HARNESS
			61G	B	TO MAIN HARNESS
			62G	W	TO MAIN HARNESS
			63G	R	TO MAIN HARNESS
			64G	W/L	TO MAIN HARNESS
			65G	W/R	TO MAIN HARNESS
			66G	BG	TO MAIN HARNESS
			67G	BG	TO MAIN HARNESS
			68G	B	TO MAIN HARNESS
			69G	Y	TO MAIN HARNESS
			70G	L	TO MAIN HARNESS
			71G	R/W	TO MAIN HARNESS

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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

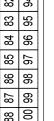
WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

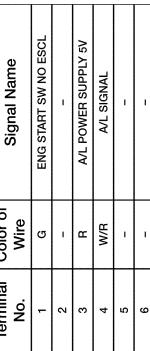
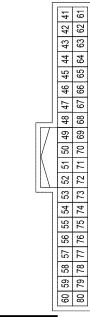
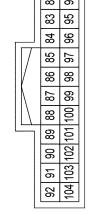
Connector No.	M4
Connector Name	FUSE BLOCK (JB)
Connector Type	NS16FW-CS
Connector Color	WHITE



7	-	-	-
8	-	-	-
9	-	-	-
10	SB	COMBI SW IN 5	COMBI SW IN 4
11	GY	COMBI SW IN 3	COMBI SW IN 2
12	Y	COMBI SW IN 2	COMBI SW IN 1
13	GB	-	-
14	V	-	-
15	-	-	-
16	-	-	-
17	P	GRD REF A/I	
18	V	SECURITY INDICATOR	
19	-	-	
20	R	SHIFT P	
21	FW	STEER LAMP CONT	
22	-	-	
23	Y	ARCON SW	
24	-	-	
25	W	BRAKE SW FUSE	
26	L	SHOR IN PIN INPUT	
27	R/G	BRAKE SW LAMP	
28	-	-	
29	W	BLOWER FAN SW	
30	P	DR DOOR LOCK STATUS	
31	-	-	
32	Y	REAR DEFOGGER SW	
33	-	-	
34	-	-	
35	R/G	REVERSE SW	
36	WB	HAZARD SW	
37	-	-	
38	-	-	
39	BR	SHIFT N/P	
40	-	-	



Connector No.	M20	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH24FGY-NH	
Connector Color	GRAY	
 		
Terminal No.	Color of Wire	Signal Name
81	-	-
82	W	RL DOOR SW
83	-	-
84	-	-
85	-	-
86	G/B	TRAILER FLASHER RL
87	Y/B	TRAILER FLASHER RR
88	-	-
89	-	-
90	-	-
91	-	-
92	O	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	-	-
96	BG	DR DOOR SW
97	P/L	CARGO LAMP SW
98	-	-
99	-	-
100	-	-
101	-	-
102	-	-
103	G/B	RL FLASHER
104	-	-



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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	M24	37	R	ILL DOWN SW
Connector Name	COMBINATION METER (WITH TYPE A)	38	G	8P8R OUTPUT
Connector Type	TH40FW-NH	39	-	-
Connector Color	WHITE	40	-	-

Connector No.	M25	37	R	ILL DOWN SW
Connector Name	COMBINATION METER (WITH TYPE A)	38	G	8P8R OUTPUT
Connector Type	TH12FW-NH	39	-	-
Connector Color	WHITE	40	-	-



Terminal No.	Color of Wire	Signal Name
1	B	GND(SATELLITE SW/GND)
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	V	SECURITY
8	-	-
9	BG	AS BELT SW(W/O ODS)
10	LG	TOW MODE SW
11	BR	CHG
12	BR	LED HEAD LAMP (R)
13	W	LED HEAD LAMP (L)
14	R	ACC SW
15	W	OUTSIDE TEMP SENSOR (WITH VK650D)
16	O	AIR BAG
17	-	-
18	P	TRIP RESET SW
19	-	-
20	R	OUTSIDE TEMP GND (WITH VK650D)
21	-	-
22	P	STRO SWA
23	R	STRO SW B
24	W	WASHER SW
25	-	-
26	G	PKG SW
27	P/L	AS BELT SW (WITH ODS)
28	OB	DR BELT SW
29	-	-
30	-	-
31	-	-
32	BR	AT SHIFT UP
33	V/W	AT SHIFT DOWN
34	-	-
35	-	-
36	W	ILL UP SW

Terminal No.	Color of Wire	Signal Name
41	W	IGN
42	R	BAT
43	Y/V	FUEL SENSOR GND
44	GR	ILL CONT OUTPUT
45	P	CAN-L
46	L	CAN-H
47	B	G1
48	BR/Y	FUEL SENSOR
49	-	-
50	-	-
51	LG	M CAN-L
52	SB	M CAN-H

AANIA5306GB

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	Signal Name	Color of Wire	Terminal No.	Color of Wire	Signal Name
1M31	WIRE TO WIRE	27G	LG	28G	TO ENGINE ROOM HARNESS
		28G	G/B	81G	TO ENGINE ROOM HARNESS
		29G	G/B	82G	R
		30G	B/R	83G	L
		31G	R	84G	L
		32G	R	85G	W
		33G	Y/L	86G	B/R
		34G	GR	87G	W
		35G	G/R	88G	G
		36G	SB	89G	P
		37G	R/W	90G	G
		38G	BR	91G	P
		39G	BR	92G	V/W
		40G	-	93G	BR
		41G	R/G	94G	B
		42G	O	95G	G
		43G	G	96G	R
		44G	R/Y	97G	R
		45G	G	98G	W/R
		46G	LG	99G	R
		47G	R	100G	G/R/W
		48G	-		
		50G	BR		
		51G	R		
		52G	L		
		53G	W		
		54G	W		
		55G	G		
		56G	W		
		57G	Y		
		58G	B/G		
		59G	B/G		
		60G	B/G		
		61G	O		
		62G	W		
		63G	O		
		64G	W/L		
		65G	W/R		
		66G	B/G		
		67G	O		
		68G	W		
		69G	B		
		70G	Y		
		71G	W/R		
		72G	L/W		
		73G	SHIELD		
		74G	W		
		75G	R		
		76G	R/G		
		77G	B/G		
		78G	P		
		79G	-		

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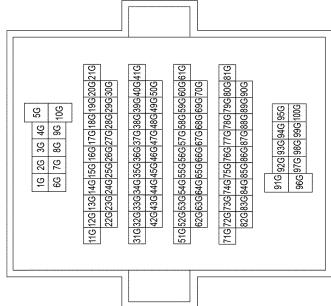
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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	M40	28J	L	TO BODY HARNESS	81J	SHIELD	TO BODY HARNESS	Connector No.	M61
Connector Name	WIRE TO WIRE	29J	G/O	TO BODY HARNESS	82J	L/R	TO BODY HARNESS	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	·TH80FW-CS16-TM4	30J	SB	TO BODY HARNESS	83J	-	TO BODY HARNESS	Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE	31J	L/G	TO BODY HARNESS	84J	-	TO BODY HARNESS	Connector Color	WHITE
		32J	R	TO BODY HARNESS	85J	W	TO BODY HARNESS		
		33J	BG	TO BODY HARNESS	86J	G	TO BODY HARNESS		
		34J	Y	TO BODY HARNESS	87J	W	TO BODY HARNESS		
		35J	P	TO BODY HARNESS	88J	SHIELD	TO BODY HARNESS		
		36J	G/R	TO BODY HARNESS	89J	R	TO BODY HARNESS		
		37J	LG	TO BODY HARNESS	90J	L	TO BODY HARNESS		
		38J	SB	TO BODY HARNESS	91J	L/B	TO BODY HARNESS		
		39J	Y	TO BODY HARNESS	92J	SB	TO BODY HARNESS		
		40J	SB	TO BODY HARNESS	93J	B	TO BODY HARNESS		
		41J	L	TO BODY HARNESS	94J	LG	TO BODY HARNESS		
		42J	LG	TO BODY HARNESS	95J	L	TO BODY HARNESS		
		43J	W	TO BODY HARNESS	96J	G	TO BODY HARNESS		
		44J	BR	TO BODY HARNESS	97J	B/Y	TO BODY HARNESS		
		45J	BG	TO BODY HARNESS	98J	L/B	TO BODY HARNESS		
		46J	P	TO BODY HARNESS	99J	WL	TO BODY HARNESS		
		47J	O	TO BODY HARNESS	100J	Y	TO BODY HARNESS		
		48J	V	TO BODY HARNESS					
		49J	BR	TO BODY HARNESS					
		50J	G/W	TO BODY HARNESS					
		51J	-	TO BODY HARNESS					
		52J	SHIELD	TO BODY HARNESS					
		53J	R	TO BODY HARNESS					
		54J	L	TO BODY HARNESS					
		55J	R	TO BODY HARNESS					
		56J	W	TO BODY HARNESS					
		57J	R	TO BODY HARNESS					
		58J	B	TO BODY HARNESS					
		59J	-	TO BODY HARNESS					
		60J	SHIELD	TO BODY HARNESS					
		61J	G	TO BODY HARNESS					
		62J	-	TO BODY HARNESS					
		63J	R/W	TO BODY HARNESS					
		64J	L/W	TO BODY HARNESS					
		65J	SHIELD	TO BODY HARNESS					
		66J	B	TO BODY HARNESS					
		67J	SHIELD	TO BODY HARNESS					
		68J	W	TO BODY HARNESS					
		69J	SHIELD	TO BODY HARNESS					
		70J	B/R	TO BODY HARNESS					
		71J	L/W	TO BODY HARNESS					
		72J	-	TO BODY HARNESS					
		73J	-	TO BODY HARNESS					
		74J	SHIELD	TO BODY HARNESS					
		75J	R	TO BODY HARNESS					
		76J	O	TO BODY HARNESS					
		77J	SHIELD	TO BODY HARNESS					
		78J	W	TO BODY HARNESS					
		79J	B	TO BODY HARNESS					
		80J	W	TO BODY HARNESS					

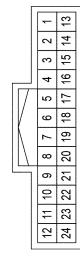
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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE A METER

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	·TH24FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G/W	TO ENGINE ROOM HARNESS
2	R/W	TO ENGINE ROOM HARNESS
3	Y/R	TO ENGINE ROOM HARNESS
4	G/R	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	P	TO ENGINE ROOM HARNESS
7	O	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS
9	G	TO ENGINE ROOM HARNESS
10	LG	TO ENGINE ROOM HARNESS
11	BR	TO ENGINE ROOM HARNESS
12	GR	TO ENGINE ROOM HARNESS
13	G	TO ENGINE ROOM HARNESS
14	BR	TO ENGINE ROOM HARNESS
15	-	TO ENGINE ROOM HARNESS
16	-	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	-	TO ENGINE ROOM HARNESS
19	Y/R	TO ENGINE ROOM HARNESS
20	G/W	TO ENGINE ROOM HARNESS
21	-	TO ENGINE ROOM HARNESS
22	-	TO ENGINE ROOM HARNESS
23	-	TO ENGINE ROOM HARNESS
24	O/L	TO ENGINE ROOM HARNESS

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WARNING CHIME SYSTEM

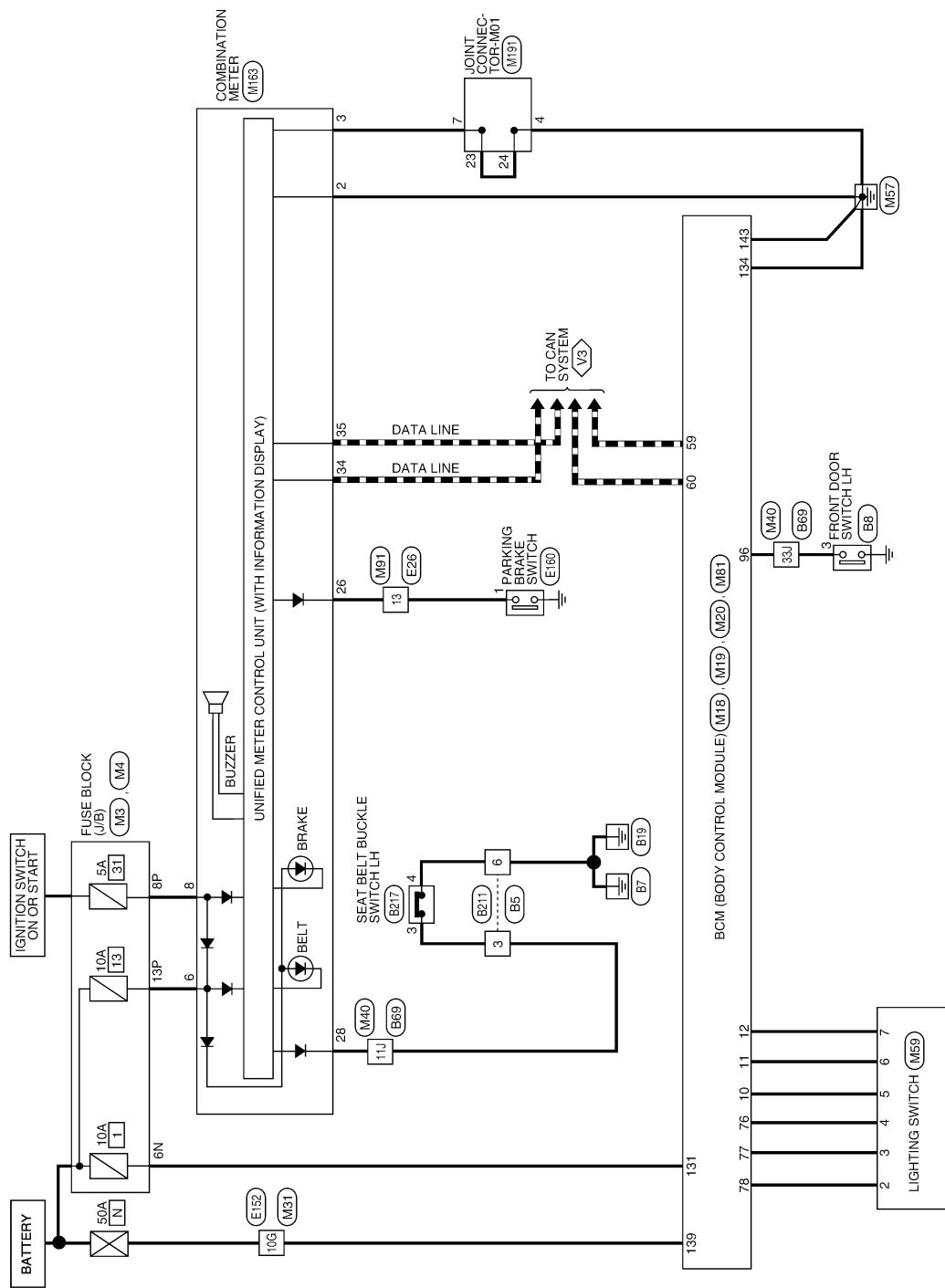
< WIRING DIAGRAM >

Wiring Diagram (with Type B meter)

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WARNING CHIME SYSTEM - WITH TYPE B METER

■ : CAN COMMUNICATION LINE FOR DIAGNOSIS
 ◻ : WITH VK56/D AND WITHOUT DRIVER ASSISTANCE SYSTEM



AANWA1748GB

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

Connector No.	B69	Terminal No.	28J	Color of Wire	L	Signal Name	TO MAIN HARNESS
Connector Name	WIRE TO WIRE		29J	G/O		TO MAIN HARNESS	TO MAIN HARNESS
Connector Type	TH80MW-CS16-TM4		30J	SB		TO MAIN HARNESS	TO MAIN HARNESS
Connector Color	WHITE		31J	LG		TO MAIN HARNESS	-
			32J	R		TO MAIN HARNESS	-
			33J	L		TO MAIN HARNESS	-
			34J	Y		TO MAIN HARNESS	Y/B
			35J	P		TO MAIN HARNESS	G
			36J	BR		TO MAIN HARNESS	TO MAIN HARNESS
			37J	LG/B		TO MAIN HARNESS	SHIELD
			38J	SB		TO MAIN HARNESS	GR/R
			39J	Y/L		TO MAIN HARNESS	L
			40J	BR		TO MAIN HARNESS	L/B
			41J	L		TO MAIN HARNESS	SB
			42J	L		TO MAIN HARNESS	B
			43J	SB		TO MAIN HARNESS	L
			44J	BR		TO MAIN HARNESS	LG
			45J	BG		TO MAIN HARNESS	TO MAIN HARNESS
			46J	P/Y		TO MAIN HARNESS	R
			47J	Y/G/R		TO MAIN HARNESS	Y/G
			48J	V		TO MAIN HARNESS	L/B
			49J	BR/Y		TO MAIN HARNESS	TO MAIN HARNESS
			50J	G/W		TO MAIN HARNESS	WL
			51J	-		TO MAIN HARNESS	TO MAIN HARNESS
			52J	SHIELD		TO MAIN HARNESS	SHIELD
			53J	R		TO MAIN HARNESS	TO MAIN HARNESS
			54J	L		TO MAIN HARNESS	TO MAIN HARNESS
			55J	R		TO MAIN HARNESS	TO MAIN HARNESS
			56J	W		TO MAIN HARNESS	TO MAIN HARNESS
			57J	L/G		TO MAIN HARNESS	TO MAIN HARNESS
			58J	O		TO MAIN HARNESS	TO MAIN HARNESS
			59J	-		TO MAIN HARNESS	TO MAIN HARNESS
			60J	SHIELD		TO MAIN HARNESS	TO MAIN HARNESS
			61J	G		TO MAIN HARNESS	TO MAIN HARNESS
			62J	-		TO MAIN HARNESS	TO MAIN HARNESS
			63J	R/W		TO MAIN HARNESS	TO BODY HARNESS LH
			64J	L/W		TO MAIN HARNESS	TO BODY HARNESS LH
			65J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			66J	B		TO MAIN HARNESS	TO BODY HARNESS LH
			67J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			68J	OL		TO MAIN HARNESS	TO BODY HARNESS LH
			69J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			70J	BR		TO MAIN HARNESS	TO BODY HARNESS LH
			71J	L/W		TO MAIN HARNESS	TO BODY HARNESS LH
			72J	-		TO MAIN HARNESS	TO BODY HARNESS LH
			73J	-		TO MAIN HARNESS	TO BODY HARNESS LH
			74J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			75J	LG/B		TO MAIN HARNESS	TO BODY HARNESS LH
			76J	R		TO MAIN HARNESS	TO BODY HARNESS LH
			77J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			78J	GR/B		TO MAIN HARNESS	TO BODY HARNESS LH
			79J	B		TO MAIN HARNESS	TO BODY HARNESS LH

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

Connector No.	B5	Terminal No.	1J	Color of Wire	P	Signal Name	TO FRONT SEAT LH HARNESS
Connector Name	WIRE TO WIRE		2J	R/Y		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
Connector Type	NS06FW-CS		3J	L		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
Connector Color	WHITE		4J	U/B		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
			5J	G/W		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
			6J	LG/Y		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
			7J	BR/G		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
			8J	SB/G		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS
			9J	BR		TO FRONT SEAT LH HARNESS	TO FRONT SEAT LH HARNESS

Connector No.	B8	Terminal No.	10J	Color of Wire	BR	Signal Name	TO FRONT DOOR SWITCH LH
Connector Name	FRONT DOOR SWITCH LH		11J	O/B		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH		12J	L		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
Connector Color	WHITE		13J	SB/O		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			14J	Y		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			15J	-		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			16J	R		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			17J	G		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			18J	SB		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			19J	O		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			20J	O/B		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			21J	Y/R		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			22J	P		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			23J	W		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			24J	W/R		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			25J	V		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			26J	L		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH
			27J	R		TO FRONT DOOR SWITCH LH	TO FRONT DOOR SWITCH LH

Connector No.	B69	Terminal No.	28J	Color of Wire	L	Signal Name	TO MAIN HARNESS
Connector Name	WIRE TO WIRE		29J	G/O		TO MAIN HARNESS	TO MAIN HARNESS
Connector Type	TH80MW-CS16-TM4		30J	SB		TO MAIN HARNESS	TO MAIN HARNESS
Connector Color	WHITE		31J	LG		TO MAIN HARNESS	-
			32J	R		TO MAIN HARNESS	-
			33J	L		TO MAIN HARNESS	-
			34J	Y		TO MAIN HARNESS	Y/B
			35J	P		TO MAIN HARNESS	G
			36J	BR		TO MAIN HARNESS	TO MAIN HARNESS
			37J	LG/B		TO MAIN HARNESS	SHIELD
			38J	SB		TO MAIN HARNESS	GR/R
			39J	Y/L		TO MAIN HARNESS	L
			40J	BR		TO MAIN HARNESS	TO MAIN HARNESS
			41J	L		TO MAIN HARNESS	SB
			42J	L		TO MAIN HARNESS	B
			43J	SB		TO MAIN HARNESS	LG
			44J	BR		TO MAIN HARNESS	TO MAIN HARNESS
			45J	BG		TO MAIN HARNESS	R
			46J	P/Y		TO MAIN HARNESS	Y/G
			47J	Y/G/R		TO MAIN HARNESS	L/B
			48J	V		TO MAIN HARNESS	TO MAIN HARNESS
			49J	BR/Y		TO MAIN HARNESS	WL
			50J	G/W		TO MAIN HARNESS	TO MAIN HARNESS
			51J	-		TO MAIN HARNESS	SHIELD
			52J	SHIELD		TO MAIN HARNESS	TO MAIN HARNESS
			53J	R		TO MAIN HARNESS	TO MAIN HARNESS
			54J	L		TO MAIN HARNESS	TO MAIN HARNESS
			55J	R		TO MAIN HARNESS	TO MAIN HARNESS
			56J	W		TO MAIN HARNESS	TO MAIN HARNESS
			57J	L/G		TO MAIN HARNESS	TO MAIN HARNESS
			58J	O		TO MAIN HARNESS	TO MAIN HARNESS
			59J	-		TO MAIN HARNESS	TO MAIN HARNESS
			60J	SHIELD		TO MAIN HARNESS	TO MAIN HARNESS
			61J	G		TO MAIN HARNESS	TO MAIN HARNESS
			62J	-		TO MAIN HARNESS	TO MAIN HARNESS
			63J	R/W		TO MAIN HARNESS	TO BODY HARNESS LH
			64J	L/W		TO MAIN HARNESS	TO BODY HARNESS LH
			65J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			66J	B		TO MAIN HARNESS	TO BODY HARNESS LH
			67J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			68J	OL		TO MAIN HARNESS	TO BODY HARNESS LH
			69J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			70J	BR		TO MAIN HARNESS	TO BODY HARNESS LH
			71J	L/W		TO MAIN HARNESS	TO BODY HARNESS LH
			72J	-		TO MAIN HARNESS	TO BODY HARNESS LH
			73J	-		TO MAIN HARNESS	TO BODY HARNESS LH
			74J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			75J	LG/B		TO MAIN HARNESS	TO BODY HARNESS LH
			76J	R		TO MAIN HARNESS	TO BODY HARNESS LH
			77J	SHIELD		TO MAIN HARNESS	TO BODY HARNESS LH
			78J	GR/B		TO MAIN HARNESS	TO BODY HARNESS LH
			79J	B		TO MAIN HARNESS	TO BODY HARNESS LH

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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

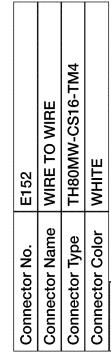
18	-	TO MAIN HARNESS	17G	G/Y	TO MAIN HARNESS	65G	W/R	TO MAIN HARNESS
19	Y/R	TO MAIN HARNESS	18G	G/Y	TO MAIN HARNESS	66G	B/G	TO MAIN HARNESS
20	G/W	TO MAIN HARNESS	19G	Y/W	TO MAIN HARNESS	67G	B/G	TO MAIN HARNESS
21	-	TO MAIN HARNESS	20G	G/Y	TO MAIN HARNESS	68G	B	TO MAIN HARNESS
22	-	TO MAIN HARNESS	21G	B/Y	TO MAIN HARNESS	69G	Y	TO MAIN HARNESS
23	-	TO MAIN HARNESS	22G	G/R	TO MAIN HARNESS	70G	L	TO MAIN HARNESS
24	OR/L	TO MAIN HARNESS	23G	Y/R	TO MAIN HARNESS	71G	R/W	TO MAIN HARNESS
			24G	G/B	TO MAIN HARNESS	72G	L/W	TO MAIN HARNESS
			25G	R/W	TO MAIN HARNESS	73G	SHIELD	TO MAIN HARNESS
			26G	R	TO MAIN HARNESS	74G	W	TO MAIN HARNESS
			27G	L/G	TO MAIN HARNESS	75G	R	TO MAIN HARNESS
			28G	G/B	TO MAIN HARNESS	76G	R/G	TO MAIN HARNESS
			29G	G/B	TO MAIN HARNESS	77G	G	TO MAIN HARNESS
			30G	B/R/Y	TO MAIN HARNESS	78G	W	TO MAIN HARNESS
			31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	79G	-	TO MAIN HARNESS
			31G	R	TO MAIN HARNESS - (WITH YK56V)	80G	R	TO MAIN HARNESS
			32G	P	TO MAIN HARNESS	81G	L	TO MAIN HARNESS
			33G	Y/L	TO MAIN HARNESS	82G	R	TO MAIN HARNESS
			34G	G/R	TO MAIN HARNESS	84G	L	TO MAIN HARNESS
			35G	G/R	TO MAIN HARNESS	85G	W/B	TO MAIN HARNESS
			36G	S/B	TO MAIN HARNESS	86G	B/R	TO MAIN HARNESS
			37G	R/W	TO MAIN HARNESS	87G	W/B	TO MAIN HARNESS
			38G	B/R	TO MAIN HARNESS	88G	P	TO MAIN HARNESS
			39G	B/R	TO MAIN HARNESS	89G	L	TO MAIN HARNESS
			40G	-	TO MAIN HARNESS	90G	G	TO MAIN HARNESS
			41G	R/G	TO MAIN HARNESS	91G	G	TO MAIN HARNESS
			42G	O	TO MAIN HARNESS	92G	V/W	TO MAIN HARNESS
			43G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	93G	BR	TO MAIN HARNESS
			43G	G	TO MAIN HARNESS - (WITH YK56V)	95G	G	TO MAIN HARNESS
			44G	R/Y	TO MAIN HARNESS	96G	W	TO MAIN HARNESS
			45G	G	TO MAIN HARNESS	97G	R	TO MAIN HARNESS
			46G	L/G	TO MAIN HARNESS	98G	W/B	TO MAIN HARNESS
			47G	R	TO MAIN HARNESS	99G	BR	TO MAIN HARNESS
			48G	W	TO MAIN HARNESS	100G	G/R/W	TO MAIN HARNESS

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

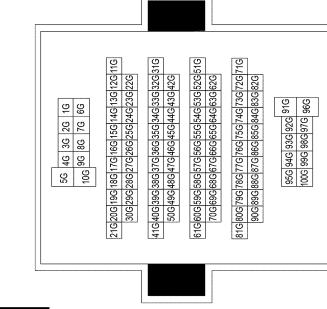
Connector No.	B217
Connector Name	SEAT BELT BUCKLE SWITCH LH (WITHOUT DRIVER POWER SEAT)
Connector Type	TH04MW-NH
Connector Color	WHITE



Connector No.	E132
Connector Name	WIRE TO WIRE
Connector Type	TH80MMW-CS16-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	BR	BUCKLE SW (+)
4	P	BUCKLE SW (-)



Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	B/R	TO MAIN HARNESS
3	W/B	TO MAIN HARNESS
4	B/R/W	TO MAIN HARNESS
5	B/R	TO MAIN HARNESS
6	P	TO MAIN HARNESS - (WITH YK56V)
7	O	TO MAIN HARNESS
8	R	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	L/G	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	GR	TO MAIN HARNESS
13	G	TO MAIN HARNESS
14	BR	TO MAIN HARNESS
15	-	TO MAIN HARNESS
16	-	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	G	TO MAIN HARNESS

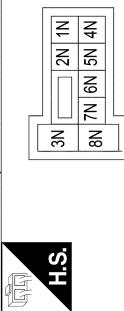
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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

Connector No.	M3	18P	W	BLOWER FAN RELAY OUT
Connector Name	FUSE BLOCK (J/B)	37	-	-
Connector No.	M18	38	-	-
Connector Name	BCM (BODY CONTROL MODULE)	39	B/R	SHIFT N/P



Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1N	-	-	1	G	ENG START SW NO ESCL.	41	Y/L	TRAILER LIGHT CHECK RELAY OUT
2N	W	BATTERY	2	-	-	42	R/Y	CARGO LAMP OUT
3N	W	BLOWER FAN RELAY OUT	3	R	A/L POWER SUPPLY 5V	43	-	-
4N	V	BATTERY	4	W/R	A/L SIGNAL	44	-	-
5N	Y	BATTERY	5	-	-	45	-	-
6N	W	ACC RELAY OUT	6	-	-	46	-	-
7N	L	ACC RELAY OUT	7	-	-	47	-	-
8N	W	IGNITION	8	-	-	48	R	HIGH SIDE START SW LED
			9	-	-	49	-	-
			10	SB	COMBI SW IN 5	50	-	-
			11	G/Y	COMBI SW IN 4	51	-	-
			12	Y	COMBI SW IN 3	52	W	AUDIO DIGITAL
			13	G/B	COMBI SW IN 2	53	-	-
			14	V	COMBI SW IN 1	54	WL	PW UART
			15	-	-	55	W/B	L&F SENSOR K-LINE
			16	-	-	56	SHIFT P	-
			17	P	GND RF AUL	57	-	-
			18	V	SECURITY INDICATOR	58	-	-
			19	-	-	59	-	-
			20	R	STEP LAMP CONT	60	L	CAN-H
			21	R/W	-	61	O	REAR DEFROGGER RELAY OUT
			22	-	-	62	W	STARTER RELAY OUT
			23	Y	AIRCON SW	63	-	-
			24	-	-	64	P	BUZZER OUT
			25	W	BRAKE SW FUSE	65	-	-
			26	L	SHORT IN PIN INPUT	66	W	BLOWER FAN SW
			27	R/G	BRAKE SW LAMP	67	G	IGN ELEC RELAY OUT 2
			28	-	-	68	L	IGN ELEC RELAY OUT 1
			29	W	BLOWER FAN SW	69	R/B	MIR OUTPUT
			30	P	DR DOOR LOCK STATUS	70	P	AT DEVICE OUT
			31	-	-	71	O	IGN USM OUT 1
			32	Y	REAR DEFROGGER SW	72	G	DR REQUEST SW
			33	-	-			AS REQUEST SW
			34	-	-			
			35	R/G	REVERSE SW			
			36	W/B	HAZARD SW			

Connector No.	M19	BCM (BODY CONTROL MODULE)	79	R/W	COMBI SW OUT 1
Connector Name	BCM (BODY CONTROL MODULE)	80	-	-	-
Connector Type	TH40FB-NH				
Connector Color	GREEN				
Connector Color	BLACK				

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

Connector No.	M31	27G	Lg	TO ENGINE ROOM HARNESS
Connector Name	WIRE TO WIRE	28G	G/B	TO ENGINE ROOM HARNESS
Connector Type	·TH80FW-CS16-TM4	29G	G/B	TO ENGINE ROOM HARNESS
Connector Color	WHITE	30G	B/R/Y	TO ENGINE ROOM HARNESS
		31G	R	TO ENGINE ROOM HARNESS
		32G	R	TO ENGINE ROOM HARNESS
		33G	Y/L	TO ENGINE ROOM HARNESS
		34G	GR	TO ENGINE ROOM HARNESS
		35G	G/R	TO ENGINE ROOM HARNESS
		36G	SB	TO ENGINE ROOM HARNESS
		37G	R/W	TO ENGINE ROOM HARNESS
		38G	BR	TO ENGINE ROOM HARNESS
		39G	BR	TO ENGINE ROOM HARNESS
		40G	-	TO ENGINE ROOM HARNESS
		41G	R/G	TO ENGINE ROOM HARNESS
		42G	O	TO ENGINE ROOM HARNESS
		43G	G	TO ENGINE ROOM HARNESS
		44G	R/Y	TO ENGINE ROOM HARNESS
		45G	G	TO ENGINE ROOM HARNESS
		46G	Lg	TO ENGINE ROOM HARNESS
		47G	R	TO ENGINE ROOM HARNESS
		48G	W	TO ENGINE ROOM HARNESS
		49G	-	TO ENGINE ROOM HARNESS
		50G	BR	TO ENGINE ROOM HARNESS
		51G	R	TO ENGINE ROOM HARNESS
		52G	L	TO ENGINE ROOM HARNESS
		53G	W	TO ENGINE ROOM HARNESS
		54G	W	TO ENGINE ROOM HARNESS
		55G	G	TO ENGINE ROOM HARNESS
		56G	W	TO ENGINE ROOM HARNESS
		57G	Y	TO ENGINE ROOM HARNESS
		58G	BG	TO ENGINE ROOM HARNESS
		59G	BG	TO ENGINE ROOM HARNESS
		60G	BG	TO ENGINE ROOM HARNESS
		61G	O	TO ENGINE ROOM HARNESS
		62G	W	TO ENGINE ROOM HARNESS
		63G	O	TO ENGINE ROOM HARNESS
		64G	W/L	TO ENGINE ROOM HARNESS
		65G	W/R	TO ENGINE ROOM HARNESS
		66G	BG	TO ENGINE ROOM HARNESS
		67G	O	TO ENGINE ROOM HARNESS
		68G	B	TO ENGINE ROOM HARNESS
		69G	W	TO ENGINE ROOM HARNESS
		70G	L	TO ENGINE ROOM HARNESS
		71G	R/W	TO ENGINE ROOM HARNESS
		72G	L/W	TO ENGINE ROOM HARNESS
		73G	SHIELD	TO ENGINE ROOM HARNESS
		74G	W	TO ENGINE ROOM HARNESS
		75G	R	TO ENGINE ROOM HARNESS
		76G	R/G	TO ENGINE ROOM HARNESS
		77G	BG	TO ENGINE ROOM HARNESS
		78G	P	TO ENGINE ROOM HARNESS
		79G	-	TO ENGINE ROOM HARNESS

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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

Connector No.	M40	28J	L	TO BODY HARNESS	81J	SHIELD	TO BODY HARNESS	Connector No.	M81
Connector Name	WIRE TO WIRE	29J	G/O	TO BODY HARNESS	82J	L/R	TO BODY HARNESS	Connector Name	BCM/BODY CONTROL MODULE
Connector Type	·TH80FW-CS16-TM4	30J	SB	TO BODY HARNESS	83J	-	TO BODY HARNESS	Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE	31J	L/G	TO BODY HARNESS	84J	-	TO BODY HARNESS	Connector Color	WHITE
		32J	R	TO BODY HARNESS	85J	W	TO BODY HARNESS		
		33J	BG	TO BODY HARNESS	86J	G	TO BODY HARNESS		
		34J	Y	TO BODY HARNESS	87J	W	TO BODY HARNESS		
		35J	P	TO BODY HARNESS	88J	SHIELD	TO BODY HARNESS		
		36J	G/R	TO BODY HARNESS	89J	R	TO BODY HARNESS		
		37J	LG	TO BODY HARNESS	90J	L	TO BODY HARNESS		
		38J	SB	TO BODY HARNESS	91J	L/B	TO BODY HARNESS		
		39J	Y	TO BODY HARNESS	92J	SB	TO BODY HARNESS		
		40J	SB	TO BODY HARNESS	93J	B	TO BODY HARNESS		
		41J	L	TO BODY HARNESS	94J	LG	TO BODY HARNESS		
		42J	13J	TO BODY HARNESS	95J	L	TO BODY HARNESS		
		43J	W	TO BODY HARNESS	96J	G	TO BODY HARNESS		
		44J	BR	TO BODY HARNESS	97J	B/Y	TO BODY HARNESS		
		45J	BG	TO BODY HARNESS	98J	L/B	TO BODY HARNESS		
		46J	P	TO BODY HARNESS	99J	W/L	TO BODY HARNESS		
		47J	O	TO BODY HARNESS	100J	Y	TO BODY HARNESS		
		48J	V	TO BODY HARNESS					
		49J	BR	TO BODY HARNESS					
		50J	G/W	TO BODY HARNESS					
		51J	-	TO BODY HARNESS					
		52J	SHIELD	TO BODY HARNESS					
		53J	R	TO BODY HARNESS					
		54J	L	TO BODY HARNESS					
		55J	R	TO BODY HARNESS					
		56J	W	TO BODY HARNESS					
		57J	R	TO BODY HARNESS					
		58J	B	TO BODY HARNESS					
		59J	B	TO BODY HARNESS					
		60J	SHIELD	TO BODY HARNESS					
		61J	G	TO BODY HARNESS					
		62J	-	TO BODY HARNESS					
		63J	R/W	TO BODY HARNESS					
		64J	L/W	TO BODY HARNESS					
		65J	SHIELD	TO BODY HARNESS					
		66J	B	TO BODY HARNESS					
		67J	SHIELD	TO BODY HARNESS					
		68J	W	TO BODY HARNESS					
		69J	SHIELD	TO BODY HARNESS					
		70J	B/R	TO BODY HARNESS					
		71J	L/W	TO BODY HARNESS					
		72J	-	TO BODY HARNESS					
		73J	-	TO BODY HARNESS					
		74J	SHIELD	TO BODY HARNESS					
		75J	R	TO BODY HARNESS					
		76J	O	TO BODY HARNESS					
		77J	SHIELD	TO BODY HARNESS					
		78J	W	TO BODY HARNESS					
		79J	B	TO BODY HARNESS					
		80J	W	TO BODY HARNESS					

WCS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME SYSTEM CONNECTORS - WITH TYPE B METER

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	G/W	TO ENGINE ROOM HARNESS	1	B	GND (ILL.)
2	R/W	TO ENGINE ROOM HARNESS	2	B	GND (CIRCUIT)
3	Y/R	TO ENGINE ROOM HARNESS	3	B	GND (POWER)
4	G/R	TO ENGINE ROOM HARNESS	4	-	-
5	G	TO ENGINE ROOM HARNESS	5	-	-
6	P	TO ENGINE ROOM HARNESS	6	R	BAT
7	O	TO ENGINE ROOM HARNESS	7	V	SECURITY
8	R	TO ENGINE ROOM HARNESS	8	W	IGN
9	G	TO ENGINE ROOM HARNESS	9	BG	AS BELT SW (W/O ODS)
10	LG	TO ENGINE ROOM HARNESS	10	LG	TOW MODE SW
11	BR	TO ENGINE ROOM HARNESS	11	BR	CHG
12	GR	TO ENGINE ROOM HARNESS	12	B	SATELLITE SW GND
13	G	TO ENGINE ROOM HARNESS	13	B	STRG SW GND
14	BR	TO ENGINE ROOM HARNESS	14	R	ACC
15	-	TO ENGINE ROOM HARNESS	15	W	OUTSIDE TEMP SENSOR
16	-	TO ENGINE ROOM HARNESS	16	O	AIR BAG
17	W	TO ENGINE ROOM HARNESS	17	-	-
18	-	TO ENGINE ROOM HARNESS	18	P	TRIP RESET SW
19	Y/R	TO ENGINE ROOM HARNESS	19	-	-
20	G/W	TO ENGINE ROOM HARNESS	20	R	OUTSIDE TEMP GND
21	-	TO ENGINE ROOM HARNESS	21	-	-
22	-	TO ENGINE ROOM HARNESS	22	P	STRG SW A
23	-	TO ENGINE ROOM HARNESS	23	R	STRG SW B
24	O/L	TO ENGINE ROOM HARNESS	24	W	WASHER SW
25	-	-	25	-	-
26	G	-	26	PKB SW	-
27	P/L	-	27	AS BELT SW (W/O ODS)	-
28	O/B	-	28	DR BELT SW	-
29	-	-	29	-	-
30	Y/V	FUEL SENSOR GND	30	FUEL SENSOR	-
31	B/R/Y	EUEL SENSOR	31	BR	AT SHIFT UP
32	BR	-	32	V/W	AT SHIFT DOWN
33	V/W	-	33	L	CAN-H
34	L	-	34	P	CAN-L
35	P	-	35	W	ILL UP SW
36	W	-	36	R	ILL DOWN SW
37	R	-	37	G	8PFR OUTPUT
38	G	-	38	-	-

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

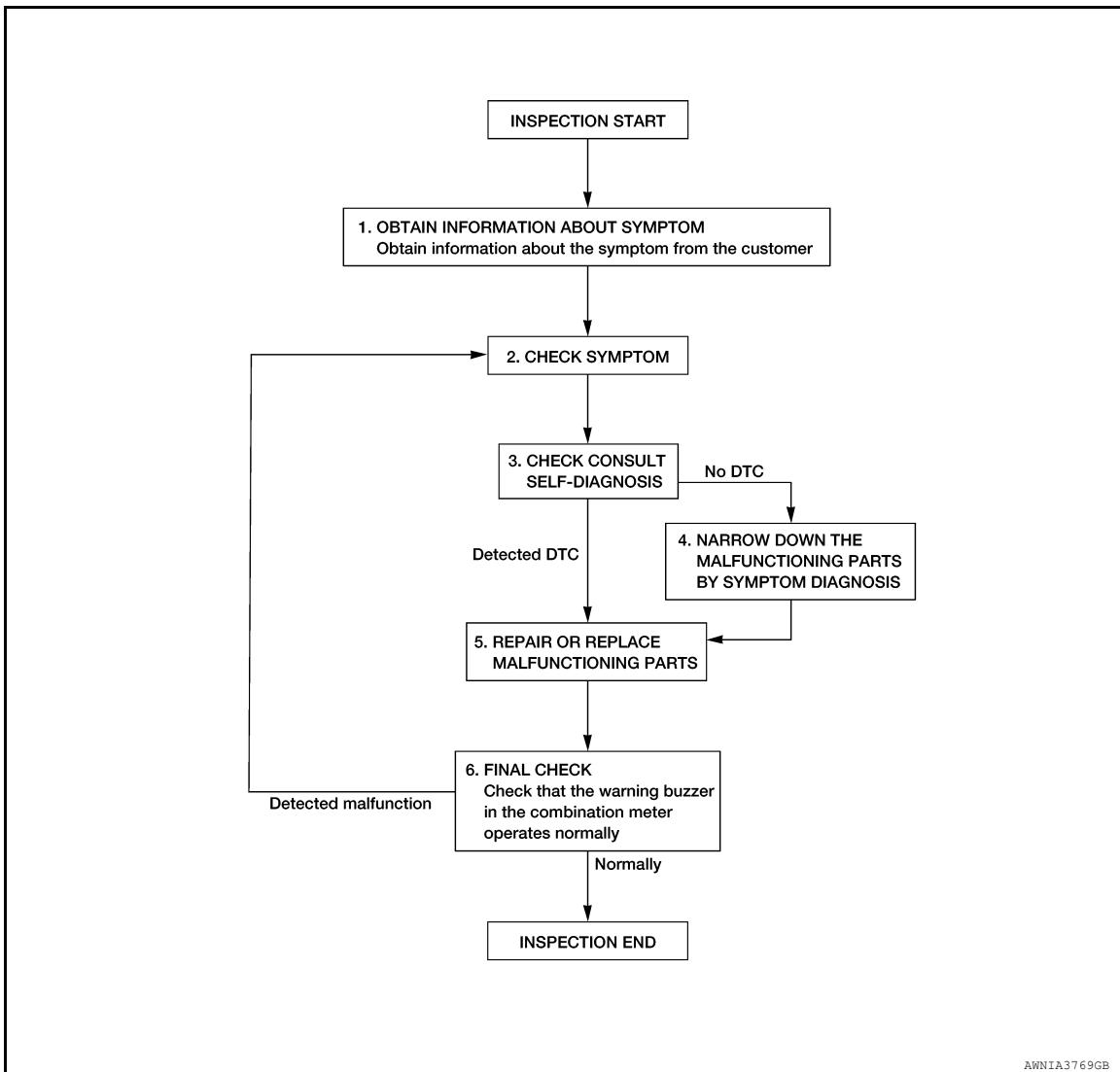
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000014386709

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.

WCS

>> GO TO 2.

2. CHECK SYMPTOM

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

>> GO TO 3.

3. CHECK CONSULT SELF-DIAGNOSIS RESULTS

O

P

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Perform self-diagnosis. Refer to [MWI-36, "DTC Index"](#) (with Type A meter), or [MWI-139, "DTC Index"](#) (with Type B meter).

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 5.

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis. Refer to [WCS-51, "Symptom Table"](#).

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

COMBINATION METER (TYPE A)

COMBINATION METER (TYPE A) : Diagnosis Procedure

INFOID:0000000014664656

Regarding Wiring Diagram information, refer to [MWI-38, "Wiring Diagram \(with Cummins 5.0L\)"](#) or [MWI-59, "Wiring Diagram \(with VK56VD\)"](#).

1. CHECK FUSES

Check that the following fuses are not blown:

Unit	Power source	Fuse No.
Combination meter	Battery	13 (10A)
	Ignition switch ON or ACC	25 (5A)
	Ignition switch ON or START	31 (5A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect combination meter harness connectors M24 and M25.

2. Check voltage between combination meter harness connectors M24 and M25 and ground.

Connector	Terminal	Ground	Ignition switch position		
			OFF	ON or ACC	START
M24	14	(-)	0 V	Battery voltage	Battery voltage
	41		0 V	Battery voltage	Battery voltage
	42		Battery voltage	Battery voltage	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between combination meter harness connector M25 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M25	47	(-)	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

COMBINATION METER (TYPE B)

COMBINATION METER (TYPE B) : Diagnosis Procedure

INFOID:0000000014664659

Regarding Wiring Diagram information, refer to [MWI-141, "Wiring Diagram"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK FUSES

Check that the following fuses are not blown:

Unit	Power source	Fuse No.
Combination meter	Battery	13 (5A)
	Ignition switch ON or ACC	25 (5A)
	Ignition switch ON or START	31 (5A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect combination meter harness connectors M136.
2. Check voltage between combination meter harness connectors M136 and ground.

Combination meter		Ground	Ignition switch position		
Connector	Terminal		OFF	ON or ACC	START
M163	14	(-)	0 V	Battery voltage	Battery voltage
	8		0 V	Battery voltage	Battery voltage
	6		Battery voltage	Battery voltage	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between combination meter harness connector M163 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M163	1	(-)	Yes
	2		
	3		
	12		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:0000000014664653

Regarding Wiring Diagram information, refer to [BCS-54, "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuse and fusible link No.	
	Cummins 5.0L	VK56VD
Fusible link battery power	R (50A)	N (50A)
BCM battery fuse	1 (10A)	1 (10A)

A

Is the fuse or fusible link blown?

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

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NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M81.
2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	(-)	Battery voltage
	139		

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Is the inspection result normal?

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YES >> GO TO 3.

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NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134	—	Yes
	143		

K

Is the inspection result normal?

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YES >> Inspection End.

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NO >> Repair or replace harness or connectors.

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Component Function Check

INFOID:000000014386713

1. CHECK OPERATION OF METER BUZZER

CONSULT

1. Select "BUZZER" of "BCM".
2. Select "LIGHT WARN ALM" in "Active Test" mode.

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [WCS-46, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000014386714

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-87, "COMBINATION METER : Diagnosis Procedure"](#) (with Type A meter), or [MWI-168, "COMBINATION METER : Diagnosis Procedure"](#) (with Type B meter).

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-108, "Removal and Installation"](#) (with Type A meter), or [MWI-187, "Removal and Installation"](#) (with Type B meter).

NO >> Repair power supply circuit of combination meter.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Component Function Check

INFOID:0000000014386715

1. CHECK COMBINATION METER INPUT SIGNAL

CONSULT

1. Select "Data Monitor" mode of "METER/M&A".
2. Select "BUCKLE SW".
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition	Status
BUCKLE SW	When seat belt LH is fastened	OFF
	When seat belt LH is unfastened	ON

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to [WCS-47, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000014386716

Regarding Wiring Diagram information, refer to [WCS-25, "Wiring Diagram \(with Type A meter\)"](#) or [WCS-34, "Wiring Diagram \(with Type B meter\)"](#).

1. CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), and ground.

Combination meter		Condition	Voltage (Approx.)
Connector	Terminal		
M24 (with Type A meter) M163 (with Type B meter)	28	When driver seat belt is fastened	Battery voltage
		When driver seat belt is unfastened	0 V

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-108, "Removal and Installation"](#).
NO >> GO TO 2.

2. CHECK SEAT BELT BUCKLE SWITCH LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), and seat belt buckle switch LH harness connector B216 (with driver power seat) or B217 (without driver power seat).
3. Check continuity between combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), and seat belt buckle switch LH harness connector B216 (with driver power seat) or B217 (without driver power seat).

With driver power seat

Combination meter		Seat belt buckle switch LH		Continuity
Connector	Terminal	Connector	Terminal	
M24 (with Type A meter) M163 (with Type B meter)	28	B216	3	Yes

WCS

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Without driver power seat

Combination meter		Seat belt buckle switch LH		Continuity
Connector	Terminal	Connector	Terminal	
M24 (with Type A meter) M163 (with Type B meter)	28	B217	3	Yes

4. Check continuity between combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter) and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24 (with Type A meter) M163 (with Type B meter)	28		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK SEAT BELT BUCKLE SWITCH LH GROUND CIRCUIT

Check continuity between seat belt buckle switch LH harness connector B216 (with driver power seat) or B217 (without driver power seat) and ground.

With driver power seat

Seat belt buckle switch LH		Ground	Continuity
Connector	Terminal		
B216	4		Yes

Without driver power seat

Seat belt buckle switch LH		Ground	Continuity
Connector	Terminal		
B217	4		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014386717

1. CHECK SEAT BELT BUCKLE SWITCH LH

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch LH connector.
3. Check continuity between the seat belt buckle switch LH terminals 3 and 4.

Condition	Terminal	Continuity
When seat belt buckle LH is fastened	3–4	No
When seat belt buckle LH is unfastened		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace the seat belt buckle switch LH. Refer to [SR-39, "Removal and Installation"](#).

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Component Function Check

INFOID:0000000014386718

1. COMBINATION METER INPUT SIGNAL

CONSULT

1. Select "Data Monitor" mode of "METER/M&A".
2. Select "PKB SW".
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition	Status
PKB SW	When parking brake is applied	ON
	When parking brake is released	OFF

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to [WCS-49, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000014386719

Regarding Wiring Diagram information, refer to [WCS-25, "Wiring Diagram \(with Type A meter\)"](#) or [WCS-34, "Wiring Diagram \(with Type B meter\)"](#).

1. CHECK PARKING BRAKE SWITCH CIRCUIT

1. Disconnect combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), and parking brake switch harness connector E160.
2. Check continuity between combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), terminal 26 and parking brake switch harness connector E160 terminal 1.

Combination meter		Parking brake switch		Continuity
Connector	Terminal	Connector	Terminal	
M24 (with Type A meter) M163 (with Type B meter)	26	E160	1	Yes

3. Check continuity between combination meter harness connector M24 (with Type A meter), or M163 (with Type B meter), terminal 26 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24 (with Type A meter) M163 (with Type B meter)	26		No

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014386720

1. CHECK PARKING BRAKE SWITCH

Check continuity between parking brake switch terminal 1 and switch case ground.

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Component	Terminal	Condition	Continuity
Parking brake switch	1	Parking brake applied	Yes
		Parking brake released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace parking brake switch. Refer to [PB-12, "Removal and Installation"](#).

WARNING CHIME SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

WARNING CHIME SYSTEM SYMPTOMS

Symptom Table

INFOID:000000014386721

CAUTION:
Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
The light reminder warning does not sound.	<ul style="list-style-type: none">• Harness between BCM and front door switch LH• Front door switch LH• BCM• Combination meter	Refer to WCS-52.
The parking brake release warning continues sounding or does not sound.	<ul style="list-style-type: none">• Harness between combination meter and parking brake switch• Parking brake switch• BCM• Combination meter	Refer to WCS-54.
The seat belt warning continues sounding or does not sound.	<ul style="list-style-type: none">• Harness between combination meter and seat belt buckle switch LH• Seat belt buckle switch LH• BCM• Combination meter	Refer to WCS-53.
Warning chime does not sound at all.	Combination meter	Refer to WCS-46.

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:0000000014386722

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

Diagnosis Procedure

INFOID:0000000014386723

1. CHECK LIGHTING SWITCH OPERATION

Check that the headlamps operate normally by operating the lighting switch.

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to [EXL-279, "Symptom Table"](#) (with LED headlamps) or [EXL-121, "Symptom Table"](#) (with halogen headlamps).

2. CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT

Check the front door switch LH signal circuit. Refer to [DLK-98, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK FRONT DOOR SWITCH LH

Check the front door switch LH. Refer to [DLK-99, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Replace front door switch LH. Refer to [DLK-191, "Removal and Installation"](#).

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000014386724

- 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:000000014386725

1. CHECK WARNING CHIME OPERATION

CONSULT

1. Select "BUZZER" of "BCM".
2. Select "SEAT BELT WARN TEST" in "Active Test" mode.
3. Touch "ON/OFF" to check that the function operates normally.

Component	CONSULT	Condition
Buzzer	SEAT BELT WARN TEST	ON
		OFF

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to [MWI-108, "Removal and Installation"](#) (with Type A meter), or [MWI-187, "Removal and Installation"](#) (with Type B meter).

2. CHECK COMBINATION METER INPUT SIGNAL

Check the combination meter input signal. Refer to [WCS-47, "Component Function Check"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> GO TO 3.

3. CHECK SEAT BELT BUCKLE SWITCH LH CIRCUIT

Check the seat belt buckle switch LH circuit. Refer to [WCS-47, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH LH

Check the seat belt buckle switch LH. Refer to [WCS-48, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the combination meter. Refer to [MWI-108, "Removal and Installation"](#) (with Type A meter), or [MWI-187, "Removal and Installation"](#) (with Type B meter).

NO >> Replace the seat belt buckle switch LH. Refer to [SR-39, "Removal and Installation"](#).

WCS

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

< SYMPTOM DIAGNOSIS >

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

Description

INFOID:0000000014386726

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

Diagnosis Procedure

INFOID:0000000014386727

1. CHECK PARKING BRAKE WARNING LAMP

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

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

Is the inspection result normal?

YES >> Replace the combination meter. Refer to [MWI-108, "Removal and Installation"](#) (with Type A meter), or [MWI-187, "Removal and Installation"](#) (with Type B meter).

NO >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Check the parking brake switch signal circuit. Refer to [WCS-49, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK PARKING BRAKE SWITCH UNIT

Check the parking brake switch. Refer to [WCS-49, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the combination meter. Refer to [MWI-108, "Removal and Installation"](#) (with Type A meter), or [MWI-187, "Removal and Installation"](#) (with Type B meter).

NO >> Replace the parking brake switch. Refer to [PB-12, "Removal and Installation"](#).