

CONTENTS

REGULAR GRADE
BASIC INSPECTION4
DIAGNOSIS AND REPAIR WORKFLOW 4 Work flow4
SYSTEM DESCRIPTION6
METER SYSTEM6
METER SYSTEM
SPEEDOMETER
TACHOMETER12TACHOMETER: System Diagram13TACHOMETER: System Description13TACHOMETER: Component Parts Location13TACHOMETER: Component Description14
ENGINE COOLANT TEMPERATURE GAUGE14 ENGINE COOLANT TEMPERATURE GAUGE : System Diagram
FUEL GAUGE : System Diagram

FUEL GAUGE: Component Parts Location16

FUEL GAUGE : Component Description17
ODO/TRIP METER
SHIFT POSITION INDICATOR
OIL PRESSURE WARNING LAMP
UP-SHIFT INDICATOR
METER ILLUMINATION CONTROL

D

Е

F

Н

J

Κ

L

M

MWI

0

METER ILLUMINATION CONTROL : Component		POWER SUPPLY AND GROUND CIRCUIT	. 45
Description	. 25	COMBINATION METER	45
METER EFFECT FUNCTION	. 25	COMBINATION METER : Diagnosis Procedure	
METER EFFECT FUNCTION : System Diagram	_	· ·	
METER EFFECT FUNCTION: System Descrip-		TRIPLE METER	
tion	. 26	TRIPLE METER : Diagnosis Procedure	. 45
METER EFFECT FUNCTION : Component Parts		IPDM E/R (INTELLIGENT POWER DISTRIBU-	
Location	. 26	TION MODULE ENGINE ROOM)	. 46
METER EFFECT FUNCTION : Component De-	27	IPDM E/R (INTELLIGENT POWER DISTRIBU-	
scription	. 21	TION MODULE ENGINE ROOM): Diagnosis Pro-	
INFORMATION DISPLAY	. 27	cedure	. 46
INFORMATION DISPLAY: System Diagram		FUEL LEVEL SENSOR SIGNAL CIRCUIT	48
INFORMATION DISPLAY : System Description	. 27	Description	
INFORMATION DISPLAY : Component Parts Lo-		Component Function Check	
cation	. 30	Diagnosis Procedure	
INFORMATION DISPLAY : Component Description	24	Component Inspection	
tion	. 31	OIL PRESCURE CWITCH CLONAL CIRCUIT	
TRIPLE METER	. 31	OIL PRESSURE SWITCH SIGNAL CIRCUIT	
TRIPLE METER: System Diagram		Description Component Function Check	
TRIPLE METER: System Description		Diagnosis Procedure	
TRIPLE METER: Component Parts Location		Component Inspection	
TRIPLE METER : Component Description	. 32		
DIAGNOSIS SYSTEM (METER)	. 33	PARKING BRAKE SWITCH SIGNAL CIR-	
Diagnosis Description		CUIT	
CONSULT Function (METER/M&A)		Description	
DTO/OIDOUIT DIA ONOCIO		Diagnosis Procedure	
DTC/CIRCUIT DIAGNOSIS	. 38	Component Inspection	. 53
U1000 CAN COMM CIRCUIT	. 38	WASHER LEVEL SWITCH SIGNAL CIRCUIT	. 54
Description		Description	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure	. 38	Component Inspection	. 54
U1010 CONTROL UNIT (CAN)	30	A/C AUTO AMP. CONNECTION RECOGNI-	
Description		TION SIGNAL CIRCUIT	. 56
DTC Logic		Description	
Diagnosis Procedure		Diagnosis Procedure	
DOOG COMMUNICATION EDDOD 4	4.5	ECH DIACNOSIS INFORMATION	
B2201 COMMUNICATION ERROR 1		ECU DIAGNOSIS INFORMATION	. 57
Description DTC Logic		COMBINATION METER	. 57
Diagnosis Procedure		Reference Value	
ŭ		Wiring Diagram - METER	. 64
B2205 VEHICLE SPEED		Fail-Safe	
Description		DTC Index	. 77
DTC Logic		IPDM E/R (INTELLIGENT POWER DISTRI-	
Diagnosis Procedure	. 42	BUTION MODULE ENGINE ROOM)	79
B2267 ENGINE SPEED	. 43	Reference Value	
Description		Wiring Diagram - IPDM E/R	
DTC Logic	. 43	Fail-safe	
Diagnosis Procedure	. 43	DTC Index	
B2268 WATER TEMP	_ 44	SYMPTOM DIAGNOSIS	۵a
Description			. JZ
DTC Logic		THE FUEL GAUGE INDICATOR DOES NOT	
Diagnosis Procedure		OPERATE	. 92
		Description	. 92

Diagnosis Procedure92	PRECAUTION100
THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON93	PRECAUTIONS100
Description	EXCEPT FOR MEXICO100 EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and
THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF94 Description94	"SEAT BELT PRE-TENSIONER"100 EXCEPT FOR MEXICO : Precaution for Battery Service100
Diagnosis Procedure94 THE PARKING BRAKE RELEASE WARNING	FOR MEXICO100 FOR MEXICO : Precaution for Supplemental Re-
CONTINUES DISPLAYING, OR DOES NOT DISPLAY Description	straint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"100 FOR MEXICO : Precaution for Battery Service101
Diagnosis Procedure95	PREPARATION102
THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, or DOES NOT DISPLAY96	PREPARATION
Description96 Diagnosis Procedure96	REMOVAL AND INSTALLATION103
THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY97 Description97	COMBINATION METER103Exploded View103Removal and Installation103Disassembly and Assembly104
Diagnosis Procedure 97 THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT 98 Description 98 Diagnosis Procedure 98	TRIPLE METER 106 Exploded View 106 Removal and Installation 106 Disassembly and Assembly 106 Nismo 370Z
NORMAL OPERATING CONDITION99	SPEC CHANGE INFORMATION 108
INFORMATION DISPLAY99 INFORMATION DISPLAY : Description99	COMBINATION METER108 Combination Meters108

MWI

A

В

С

D

Е

F

G

Н

J

Κ

L

M

0

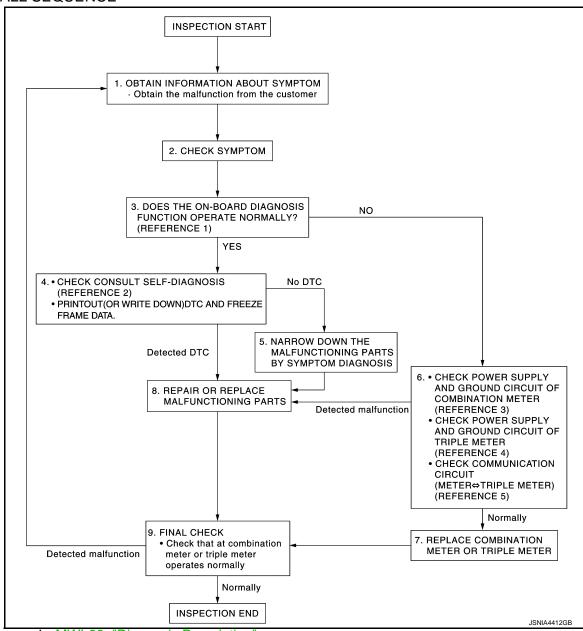
Р

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work flow

OVERALL SEQUENCE



- Reference 1...MWI-33, "Diagnosis Description".
- Reference 2···MWI-77. "DTC Index".
- Reference 3...MWI-45, "COMBINATION METER: Diagnosis Procedure".
- Reference 4...MWI-45, "TRIPLE METER: Diagnosis Procedure".
- Reference 5...MWI-40, "Diagnosis Procedure".

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.

DIAGNOSIS AND REPAIR WORKFLOW

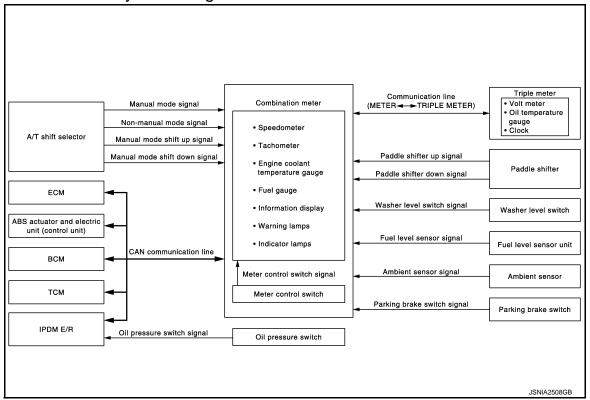
[REGULAR GRADE] < BASIC INSPECTION > $\overline{2}$.check symptom • Check the symptom based on the information obtained from the customer. Check that any other malfunctions are present. В >> GO TO 3. 3.CHECK ON BOARD DIAGNOSIS OPERATION Check that the on board diagnosis function operates. Refer to MWI-33, "Diagnosis Description". Does the on board diagnosis function operate normally? YES >> GO TO 4. D NO >> GO TO 6. 4. CHECK CONSULT SELF-DIAGNOSIS RESULTS Connect CONSULT and perform self-diagnosis. Refer to MWI-77, "DTC Index". Е 2. When DTC is detected, follow the instructions below: Record DTC and Freeze Frame Data. Are self-diagnosis results normal? F YES >> GO TO 5. NO >> GO TO 8. ${f 5.}$ NARROW DOWN THE MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS Perform symptom diagnosis and narrow down the malfunctioning parts. Н >> GO TO 8. 6.CHECK POWER SUPPLY AND GROUND CIRCUITS OR COMMUNICATION CIRCUIT Check combination meter power supply and ground circuits. Refer to MWI-45, "COMBINATION METER: Diagnosis Procedure". • Check triple meter power supply and ground circuits. Refer to MWI-45, "TRIPLE METER: Diagnosis Procedure". Check communication circuits. Refer to <u>MWI-40, "Diagnosis Procedure"</u>. Is inspection result OK? YES >> GO TO 7. K NO >> GO TO 8. 7. REPLACE COMBINATION METER OR TRIPLE METER Replace combination meter or triple meter. >> GO TO 9. M f 8.REPAIR OR REPLACE MALFUNCTIONING PARTS Repair or replace the malfunctioning parts. NOTE: MWI If DTC is displayed, erase DTC after repair or replace malfunctioning parts. >> GO TO 9. 9. FINAL CHECK Check that the combination meter and the triple meter operates normally. Р Do they operate normally? YES >> INSPECTION END NO >> GO TO 1.

SYSTEM DESCRIPTION

METER SYSTEM METER SYSTEM

METER SYSTEM: System Diagram

INFOID:0000000009358880



METER SYSTEM: System Description

INFOID:0000000009358881

COMBINATION METER

- The combination meter receives the information required to control the operation of each gauge, indicator/ warning lamp, triple meter, and information display via CAN communication from each unit, each switch, and sensor.
- The combination meter incorporates a trip computer that displays, warnings and messages on the information display according to the information received from various units.
- The combination meter incorporates a buzzer function that sounds an audible alarm with the integrated buzzer device. Refer to WCS-5, "WARNING CHIME SYSTEM: System Description" for further details.
- The combination meter integrates the meter circuit check function and the segment check function that checks the information display operation.

IPDM E/R

- IPDM E/R reads the ON/OFF signals of the oil pressure switch and transmits the oil pressure switch signal to the combination meter via BCM with the CAN communication line.
- IPDM E/R is equipped with the diagnosis function. It can perform the operation check of oil pressure warning lamp with the auto active test and the diagnosis with CONSULT.

METER CONTROL FUNCTION LIST

METER SYSTEM

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

System		Description	Signal source
	Speedometer	Receives vehicle speed signal and indicates vehicle speed.	ABS actuator and electric unit (control unit) ⇒ Combination meter
Meter/gauge	Tachometer	Receives engine speed signal and indicates engine speed.	ECM ⇒ Combination meter
	Fuel gauge	Receives fuel level sensor signal and indicates fuel level.	Fuel level sensor unit ⇒ Combination meter
	Engine coolant tem- perature gauge	Receives engine coolant temperature signal and indicates coolant temperature.	ECM ⇒ Combination meter
Warning lamp/ indicator lamp	Oil pressure warning lamp	Receives oil pressure warning lamp signal and illuminates warning lamp.	$\begin{array}{c} \text{IPDM E/R} \Rightarrow \text{BCM} \Rightarrow \\ \text{Combination meter} \end{array}$
	Up-shift indicator lamp	Receives engine speed signal and indicates up-shift indicator lamp.	ECM ⇒ Combination meter
	Master warning lamp	Illuminates according to warning output on information display.	_

F

A

В

С

D

Е

G

Н

ı

J

Κ

L

M

MWI

0

Р

METER SYSTEM

[REGULAR GRADE]

	System	Description	Signal source
	Door open warning	Receives door switch signals and displays warning.	BCM ⇒ Combination meter
	Parking brake re-	Receives parking brake switch signal and vehicle speed signal and	Parking brake switch ⇒ Combination meter
	lease warning	displays warnings.	ABS actuator and electric unit (control unit) ⇒ Combination meter
	Low fuel warning	Receives fuel gauge signal and displays warning if fuel level decreases to approx.13 ℓ (3-3/8 US gal, 2-7/8 Imp gal) or less.	Fuel level sensor unit ⇒ Combination meter
	Low washer fluid warning	Receives washer level switch signal and displays warning.	Washer level switch ⇒ Combination meter
	Low outside tempera- ture warning	Monitors ambient sensor signal and displays warning if ambient temperature decreases to 3°C (37°F) or less. (If enabled)	Ambient sensor ⇒ Combination meter
	Fuel filler cap warning	Receives fuel filler cap warning display signal and displays warning.	ECM ⇒ Combination meter
	Instantaneous fuel	Calculates instantaneous fuel consumption based on received ve-	ECM ⇒ Combination meter
Information	Instantaneous fuel consumption	hicle speed signals and fuel consumption monitor signal and displays it.	ABS actuator and electric unit (control unit) ⇒ Combination meter
display	Average fuel con-	Calculates average fuel consumption in a reset-to-reset interval	ECM ⇒ Combination meter
	sumption	based on received vehicle speed signals and fuel consumption monitor signal and displays it.	ABS actuator and electric unit (control unit) ⇒ Combination meter
	Average vehicle speed	Calculates average vehicle speed in a reset-to-reset interval based on received vehicle speed signals and displays it.	ABS actuator and electric unit (control unit) ⇒ Combination meter
	Travel time	Displays accumulated key switch ON time from reset to reset.	_
	Travel distance	Calculates accumulated travel distance in a reset-to-reset interval based on received vehicle speed signals and displays it.	ABS actuator and electric unit (control unit) ⇒ Combination meter
		Calculates possible driving distance based on received fuel con-	ABS actuator and electric unit (control unit) ⇒ Combination meter
	Possible driving distance	sumption monitor signal, vehicle speed signals and fuel level sensor signal and displays it.	ECM ⇒ Combination meter
			Fuel level sensor unit ⇒ Combination meter
	Ambient air temperature	Corrects ambient air temperature value based on received ambient sensor signals and displays it.	Ambient sensor ⇒ Combination meter
	Volt meter	Receives ignition signal and indicates battery voltage.	Ignition power supply ⇒ Triple meter
Triple meter	Oil temperature gauge	Receives oil temperature signal and indicates engine oil temperature.	ECM ⇒ Combination meter ⇒ Triple meter
	Clock	Receives clock signal and displays the time on clock.	Combination meter ⇒ Triple meter

Α

В

C

D

Е

F

G

Н

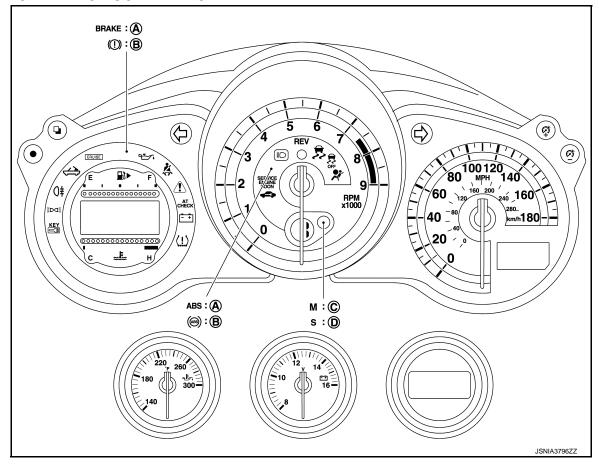
J

K

L

M

ARRANGEMENT OF COMBINATION METER AND TRIPLE METER



- A. For USA
- D. With SynchroRev Match mode (S-MODE) models
- B. Except for USA

C. A/T models

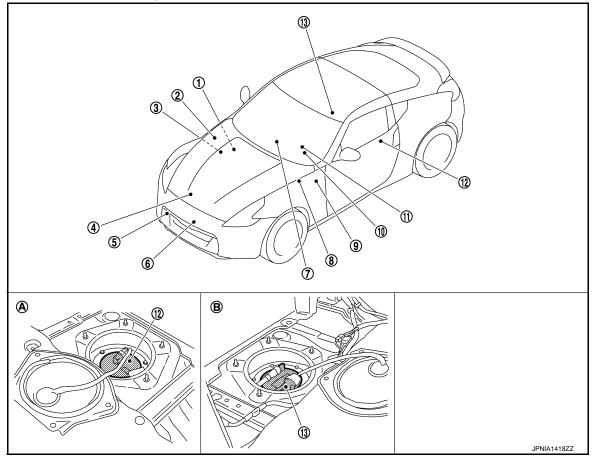
MWI

0

Р

METER SYSTEM: Component Parts Location

INFOID:0000000009358882



BCM

- Refer to <u>BCS-11</u>, "Component Parts 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to EM-82, "Exploded View".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

Refer to PCS-5, "Component Parts Location".

. Washer level switch

ABS actuator and electric unit (control unit)

- Refer to <u>BRC-11</u>, "Component Parts <u>Location"</u>.
- 11. Parking brake switch

ECM

- Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

TCM

- Refer to <u>TM-154</u>, "Component Parts <u>Location</u>".
- 12. Fuel level sensor unit (sub)

METER SYSTEM: Component Description

INFOID:0000000009358883

Unit		Description				
	Controls the following with the signals received from each unit via CAN communication and the signals from switches and sensors.					
Combination meter	Speedometer	Tachometer				
	Engine coolant temperature gauge	Fuel gauge				
	Warning lamps	Indicator lamps				
	Information display	Triple meter				

METER SYSTEM

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

Α

В

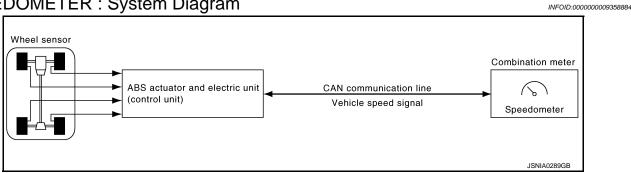
D

Е

Unit	Description					
	Indicate the following with the signals received from combination meter via communication line and the signal from ignition power supply.					
Triple meter	Volt meter	 Oil temperature gauge 				
	Clock					
IPDM E/R	IPDM E/R reads the ON/OFF signals of the signal to the combination meter via BCM	e oil pressure switch and transmits the oil pressure switch with CAN communication line.				
Fuel level sensor unit	Refer to MWI-48, "Description".					
Oil pressure switch	Refer to MWI-51, "Description".					
	Transmits the following signals to the com-	bination meter with CAN communication line.				
	Engine speed signal	 Engine coolant temperature signal 				
ECM	Fuel consumption monitor signal	 Oil temperature signal 				
	Shift position signal [with SyncroRev m mode (S-MODE) models]	Fuel filler cap warning display signal				
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter with CAN communication line.					
BCM	Transmits signals provided by various unit	Transmits signals provided by various units to the combination meter with CAN communication line.				
	Transmits the following signal to the comb	pination meter.				
A/T shift selector	Manual mode signal	 Non-manual mode signal 				
	Manual mode shift up signal	 Manual mode shift down signal 				
Paddle shifter	Transmits paddle shifter up signal and pa	ddle shifter down signal to the combination meter.				
TCM	Transmits the shift position signal to the c	Transmits the shift position signal to the combination meter with CAN communication line.				
Washer level switch	Transmits the washer level signal to the c	ombination meter.				
Ambient sensor	Transmits the ambient sensor signal to th	e combination meter.				
Brake fluid level switch	Transmits the brake fluid level switch signal to the combination meter.					
Parking brake switch	Refer to MWI-53, "Description".					

SPEEDOMETER

SPEEDOMETER: System Diagram



SPEEDOMETER: System Description

- The ABS actuator and electric unit (control unit) converts the rectangular wave signal provided by the wheel sensor to a vehicle speed signal and transmits it to the combination meter via CAN communication.
- The combination meter indicates the vehicle speed to the speedometer according to the vehicle speed signal received via CAN communication.

MWI-11 Revision: 2013 May 2014 370Z

MWI

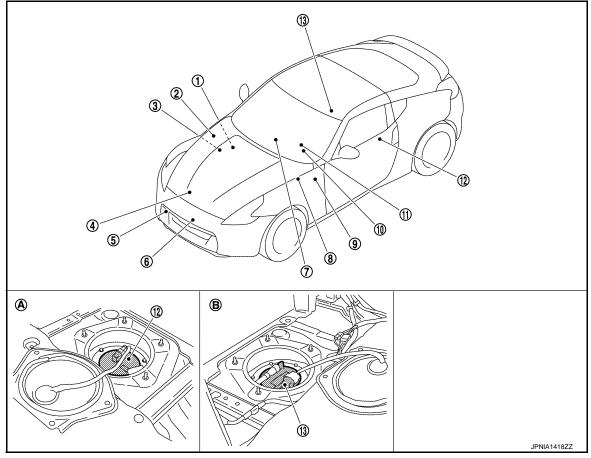
0

INFOID:0000000009358885

M

SPEEDOMETER: Component Parts Location





- Refer to BCS-11, "Component Parts 2. Location".
- Oil pressure switch Refer to EM-82, "Exploded View".
- Triple meter
- 10. Combination meter
- Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

Refer to PCS-5, "Component Parts Location".

Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

ECM

- Refer to EC-40, "Component Parts Location".
- Ambient sensor

TCM

- Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

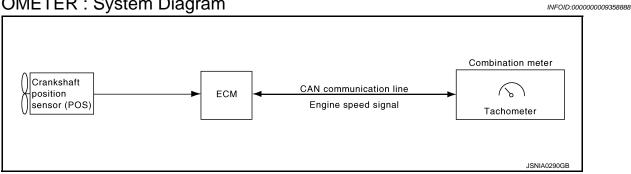
SPEEDOMETER: Component Description

INFOID:0000000009358887

Unit	Description
Combination meter	Indicates the vehicle speed to the speedometer according to the vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter with CAN communication line.

TACHOMETER

TACHOMETER: System Diagram



TACHOMETER: System Description

INFOID:0000000009358889

Α

D

Е

F

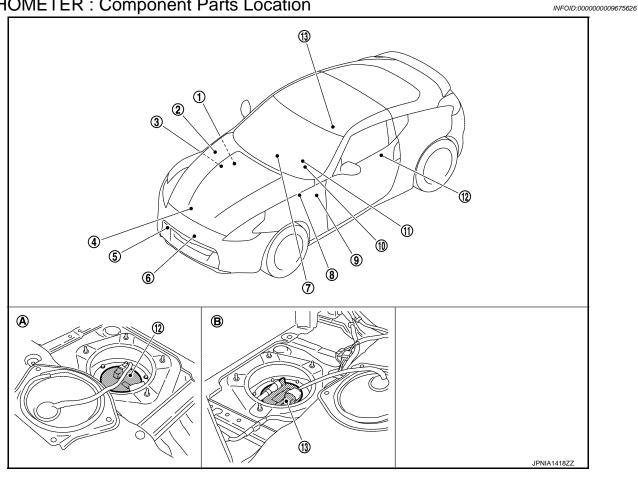
M

MWI

Р

- ECM converts the pulse signal provided by the crankshaft position sensor to an engine speed signal and transmits it to the combination meter with CAN communication line.
- The combination meter indicates the engine speed to the tachometer according to the engine speed signal received via CAN communication.

TACHOMETER: Component Parts Location



- Refer to BCS-11, "Component Parts 2. Location".
- Oil pressure switch Refer to EM-82, "Exploded View".
- Triple meter

10. Combination meter

- IPDM E/R
- Refer to PCS-5, "Component Parts Location".
- Washer level switch

ABS actuator and electric unit (control unit)

Refer to BRC-11, "Component Parts Location".

MWI-13

11. Parking brake switch

- **ECM**
- Refer to EC-40, "Component Parts Location".
- Ambient sensor

TCM

- 9. Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

2014 370Z

Revision: 2013 May

- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

TACHOMETER: Component Description

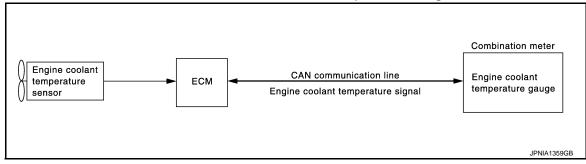
INFOID:0000000009358891

Unit	Description
Combination meter	Indicates the engine speed to the tachometer according to the engine speed signal received from ECM via CAN communication.
ECM	Transmits the engine speed signal to the combination meter with CAN communication line.

ENGINE COOLANT TEMPERATURE GAUGE

ENGINE COOLANT TEMPERATURE GAUGE: System Diagram

INFOID:0000000009358892



ENGINE COOLANT TEMPERATURE GAUGE: System Description

INFOID:0000000009358893

- ECM reads the engine coolant temperature signal from the engine coolant temperature sensor and transmits the signal to the combination meter via CAN communication.
- The combination meter indicates the engine coolant temperature to the engine coolant temperature gauge according to the engine coolant temperature signal received via CAN communication.

В

D

Е

ENGINE COOLANT TEMPERATURE GAUGE: Component Parts Location

(13) **(5)** B JPNIA1418ZZ

BCM

- Refer to BCS-11, "Component Parts 2.
- Oil pressure switch Refer to EM-82, "Exploded View".
- Triple meter
- 10. Combination meter
- Fuel level sensor unit and fuel pump

IPDM E/R

- Refer to PCS-5, "Component Parts Location".
- Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

- **ECM**
- Refer to EC-40, "Component Parts Location".
- Ambient sensor

TCM

- Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

ENGINE COOLANT TEMPERATURE GAUGE: Component Description

Unit	Description
Combination meter	Indicates the engine coolant temperature to the engine coolant temperature gauge according to the engine coolant temperature signal received from ECM via CAN communication.
ECM	Transmits the engine coolant temperature signal to the combination meter via CAN communication.

FUEL GAUGE

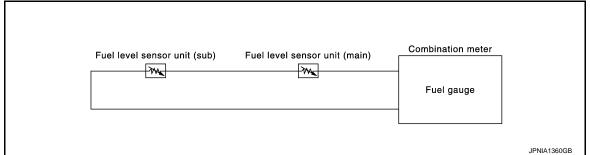
MWI

M

K

FUEL GAUGE: System Diagram





FUEL GAUGE: System Description

INFOID:0000000009358897

CONTROL OUTLINE

The combination meter reads the fuel level sensor signal from the fuel level sensor unit and indicates the fuel level to the fuel gauge.

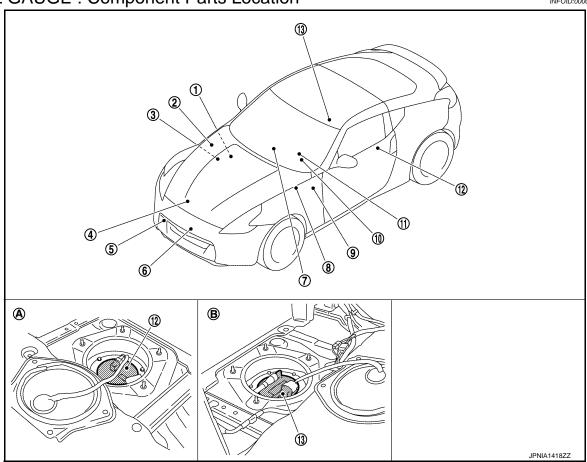
REFUEL CONTROL

The combination meter accelerates the fuel gauge segment if the all conditions listed below are met, or the ignition switch is ON from OFF.

- Ignition switch is ON position.
- The vehicle is not moving.
- The fuel level change by 15 $\,\ell$ (4 US gal, 3-1/4 lmp gal) or more.

FUEL GAUGE: Component Parts Location

INFOID:0000000009675634

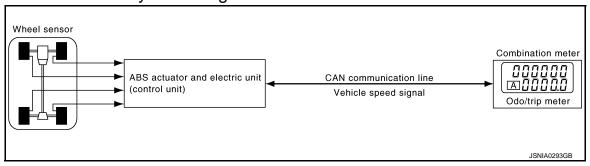


1.	BCM Refer to BCS-11, "Component Parts Location".	2.	IPDM E/R Refer to PCS-5, "Component Parts Location".	3.	Refer to EC-40, "Component Parts Location".	Α
4.	Oil pressure switch Refer to <u>EM-82</u> , "Exploded View".	5.	Washer level switch	6.	Ambient sensor	В
7.	Triple meter	8.	ABS actuator and electric unit (control unit) Refer to BRC-11, "Component Parts Location".	9.	TCM Refer to TM-154, "Component Parts Location".	С
10.	Combination meter	11.	Parking brake switch	12.	Fuel level sensor unit (sub)	
13.	Fuel level sensor unit and fuel pump (main)					D
A.	Rear parcel shelf cover LH (bottom)	B.	Rear parcel shelf cover RH (bottom)			
FUEL GAUGE: Component Description						Е

Unit	Description			
Combination meter	Indicates the fuel gauge according to the fuel level sensor signal received from the fuel level sensor unit.			
Fuel level sensor unit	Refer to MWI-48, "Description".			

ODO/TRIP METER

ODO/TRIP METER: System Diagram



ODO/TRIP METER: System Description

• The ABS actuator and electric unit (control unit) reads the rectangular wave signal provided by the wheel sensor and transmits the vehicle speed signal to the combination meter via CAN communication.

• The combination meter converts the vehicle speed signal received via CAN communication to mileage, and it displays the accumulated mileage to the odo/trip meter.

MWI

K

F

INFOID:0000000009358900

INFOID:0000000009358901

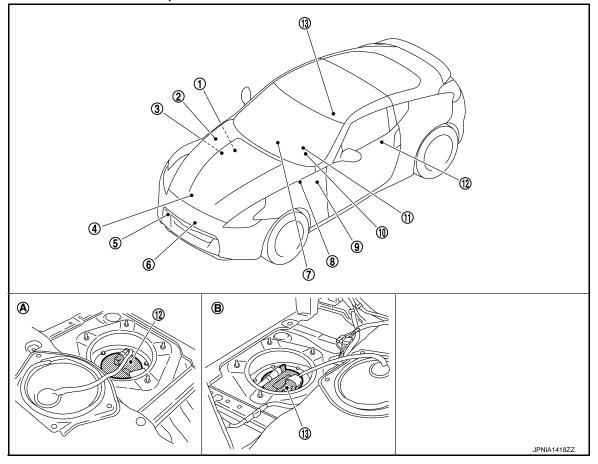
C

Р

Revision: 2013 May **MWI-17** 2014 370Z

ODO/TRIP METER: Component Parts Location

INFOID:0000000009675659



BCM

- Refer to <u>BCS-11</u>, "Component Parts 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to EM-82, "Exploded View".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

- Refer to <u>PCS-5</u>, "Component Parts <u>Location"</u>.
- Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

ECM

- Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

TCM

- 9. Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

ODO/TRIP METER: Component Description

INFOID:0000000009358903

Unit	Description
Combination meter	Converts the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication to mileage, and it displays the accumulated mileage to the odo/trip meter.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.

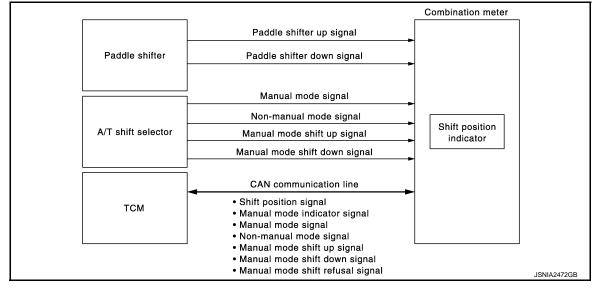
SHIFT POSITION INDICATOR

SHIFT POSITION INDICATOR: System Diagram

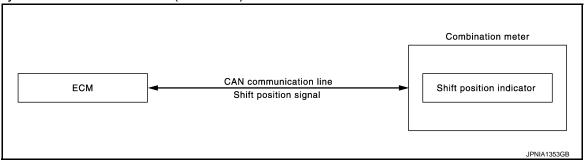
INFOID:0000000009358904

Α

A/T MODELS



WITH SynchroRev Match mode (S-MODE) MODELS



SHIFT POSITION INDICATOR: System Description

INFOID:0000000009358905

A/T MODELS

Manual Mode

When operated with A/T shift selector

- The combination meter receives the manual mode signal, manual mode shift up signal, and manual mode shift down signal from A/T shift selector and transmits them to TCM via CAN communication.
- TCM recognizes the manual mode operation status according to the manual mode signal, manual mode shift up signal, and manual mode shift down signal received via CAN communication and transmits the shift position signal to the combination meter via CAN communication.
- The combination meter indicates shift position according to the shift position signal via CAN communication.

When operated with paddle shifter

- The combination meter receives the manual mode signal from A/T shift selector, paddle shifter up signal and paddle shifter down signal from paddle shifter and transmits them to TCM via CAN communication.
- TCM recognizes the manual mode operation status according to the manual mode signal, manual mode shift up signal, and manual mode shift down signal received via CAN communication and transmits the shift position signal to the combination meter via CAN communication.
- The combination meter indicates shift position according to the shift position signal via CAN communication.

Shift refusal warning and alarm

- TCM sends a manual mode shift refusal signal to the combination meter via CAN communication when shiftup and shift-down can not be operated in manual mode.
- The combination meter blinks the shift position indicator and sounds a buzzer according to a manual mode shift refusal signal received via CAN communication.

K

MWI

M

/I V V I

Ρ

Non-Manual Mode

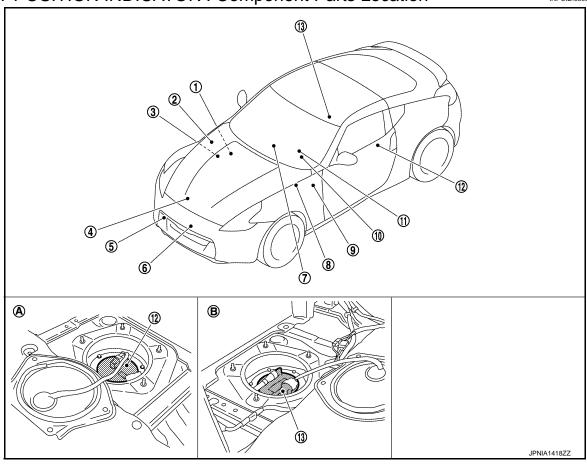
- Combination meter inputs non-manual mode signal from A/T shift selector and transmits the signals to TCM with CAN communication line.
- TCM transmits shift position signal to combination meter with CAN communication.
- Combination meter indicates shift position when receiving shift position signal.

WITH SynchroRev Match mode (S-MODE) MODELS

- ECM transmits the shift position signal to the combination meter via CAN communication.
- The combination meter indicates shift position according to the shift position signal received via CAN communication.

SHIFT POSITION INDICATOR: Component Parts Location

INFOID:0000000009675660



BCM

- 1. Refer to <u>BCS-11, "Component Parts</u> 2. Location".
- Oil pressure switch
 Refer to <u>EM-82</u>, "<u>Exploded View</u>".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom)

IPDM E/R

- Refer to PCS-5, "Component Parts Location".
- Washer level switch

ABS actuator and electric unit (control unit)

Rear parcel shelf cover RH (bottom)

- Refer to <u>BRC-11</u>, "Component Parts <u>Location"</u>.
- 11. Parking brake switch

B.

_

- ECM
- Refer to <u>EC-40</u>, "Component Parts Location".
- 6. Ambient sensor

TCM

- Refer to <u>TM-154</u>, "Component Parts <u>Location"</u>.
- 12. Fuel level sensor unit (sub)

SHIFT POSITION INDICATOR: Component Description

NFOID:00000000009358907	

Α

В

D

Е

F

Н

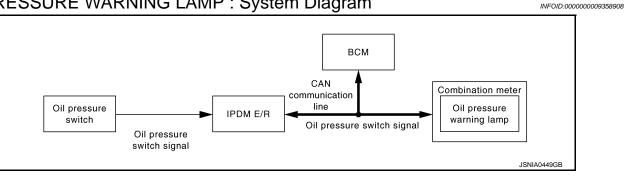
INFOID:0000000009358909

Unit		Description				
Combination meter		Displays the shift position on the shift position indicator with shift position signal received from TCM*1 or ECM*2 via CAN communication.				
	Transmits the following signals to the combination meter.					
A/T shift selector	Manual mode signal	 Non-manual mode signal 				
	Manual mode shift up signal	 Manual mode shift down signal 				
Paddle shifter	Transmits the paddle shifter up signal a	Transmits the paddle shifter up signal and paddle shifter down signal to the combination meter.				
TCM ^{*1}	Transmits shift position signal and man CAN communication.	Transmits shift position signal and manual mode shift refusal signal to the combination meter with CAN communication.				
ECM*2	Transmits shift position signal to the co	Transmits shift position signal to the combination meter with CAN communication.				

^{*1:} A/T models

OIL PRESSURE WARNING LAMP

OIL PRESSURE WARNING LAMP: System Diagram



OIL PRESSURE WARNING LAMP: System Description

OIL PRESSURE WARNING LAMP

- IPDM E/R reads the ON/OFF signals from the oil pressure switch and transmits the oil pressure switch signal to the combination meter via BCM with the CAN communication line.
- The combination meter turns the oil pressure warning lamp ON/OFF according to the oil pressure switch signal received via CAN communication.

MWI

Р

MWI-21 Revision: 2013 May 2014 370Z

M

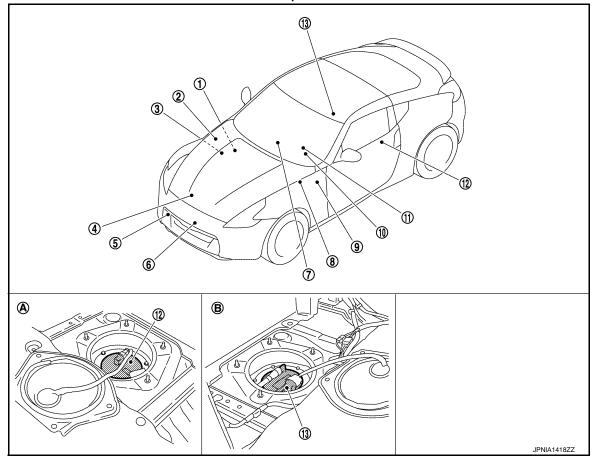
K

L

^{*2:} With SynchroRev Match mode (S-MODE) models

OIL PRESSURE WARNING LAMP: Component Parts Location

INFOID:0000000009675661



BCM

- Refer to <u>BCS-11</u>, "Component Parts 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to EM-82, "Exploded View".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

- Refer to PCS-5, "Component Parts Location".
- Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

ECM

- . Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

TCM

- 9. Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

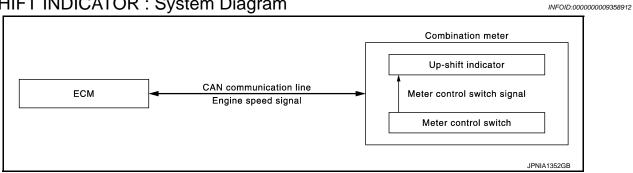
OIL PRESSURE WARNING LAMP : Component Description

INFOID:0000000009358911

Unit	Description			
Combination meter	Turns the oil pressure warning lamp ON/OFF according to the oil pressure switch signal received from BCM via CAN communication.			
IPDM E/R	Reads the ON/OFF signals from the oil pressure switch and transmits the oil pressure switch signal to the combination meter via BCM and CAN communication.			
Oil pressure switch	Refer to MWI-51, "Description".			
BCM	Transmits the oil pressure switch signal received from IPDM E/R via CAN communication to the combination meter via CAN communication.			

UP-SHIFT INDICATOR

UP-SHIFT INDICATOR : System Diagram



UP-SHIFT INDICATOR: System Description

INFOID:0000000009358913

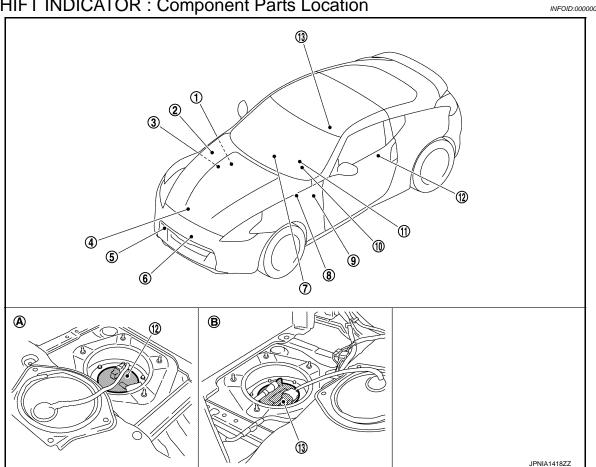
Combination meter receives the engine speed signal from ECM via CAN communication line, and then turns up-shift indicator ON, OFF or blinking.

Combination meter turns up-shift indicator ON, OFF or Blinking under the following conditions

Up-shift indicator status	Engine speed	Setting range
ON	Set value [*] or more	No setting - 9,000 rpm
Blinking	From (Set value* minus 500 rpm)	_
OFF	(Set value [*] minus 600 rpm) or less	_

^{*:} Value set by the setting function in information display.

UP-SHIFT INDICATOR: Component Parts Location



MWI-23 Revision: 2013 May 2014 370Z

Α

В

D

F

Е

INFOID:0000000009675662

MWI

1.	BCM Refer to BCS-11, "Component Parts Location".	2.	IPDM E/R Refer to PCS-5, "Component Parts Location".	3.	ECM Refer to EC-40, "Component Parts Location".
4.	Oil pressure switch Refer to <u>EM-82, "Exploded View"</u> .	5.	Washer level switch	6.	Ambient sensor
7.	Triple meter	8.	ABS actuator and electric unit (control unit) Refer to BRC-11, "Component Parts Location".	9.	TCM Refer to TM-154, "Component Parts Location".
10.	Combination meter	11.	Parking brake switch	12.	Fuel level sensor unit (sub)
13.	Fuel level sensor unit and fuel pump (main)				
A.	Rear parcel shelf cover LH (bottom)	B.	Rear parcel shelf cover RH (bottom)		

UP-SHIFT INDICATOR: Component Description

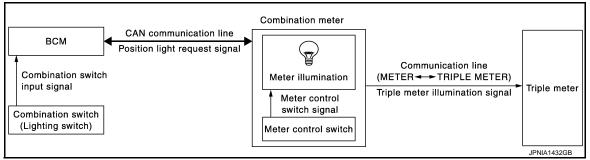
INFOID:0000000009358915

Unit	Description
Combination meter	 Receives the engine speed signal from ECM via CAN communication line. Receives the meter control switch signal from meter control switch.
ECM	Transmits the engine speed signal to the combination meter via CAN communication.

METER ILLUMINATION CONTROL

METER ILLUMINATION CONTROL: System Diagram

INFOID:0000000009358916



METER ILLUMINATION CONTROL: System Description

INFOID:0000000009358917

SYSTEM DESCRIPTION

Combination Meter

The combination meter controls the meter illumination and triple meter illumination by the meter control switch signal from the meter control switch and the position light request signal transmitted by the BCM via CAN communication.

Triple Meter

The triple meter illuminates the triple meter illumination by the triple meter illumination signal from the combination meter via communication line.

Nighttime Mode

- Combination meter changes the meter illumination to the nighttime mode by the position light request signal from BCM via CAN communication.
- Meter illumination and triple meter illumination can be adjusted in 22 steps using the illumination control switch in nighttime mode.

INFOID:0000000009675663

Α

D

Е

METER ILLUMINATION CONTROL : Component Parts Location

ВСМ

- Refer to <u>BCS-11</u>, "Component Parts 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to EM-82, "Exploded View".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

Refer to PCS-5, "Component Parts Location".

Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

ECM

3.

- Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

TCM

- Refer to <u>TM-154, "Component Parts</u> Location".
- 12. Fuel level sensor unit (sub)

METER ILLUMINATION CONTROL: Component Description

Unit

Combination meter

Combination meter

Combination meter

Controls the meter illumination and triple meter illumination with the meter control switch signal from the meter control switch and the position light request signal from BCM via CAN communication.

Triple meter

Receives the triple meter illumination signal from the combination meter via communication line.

BCM

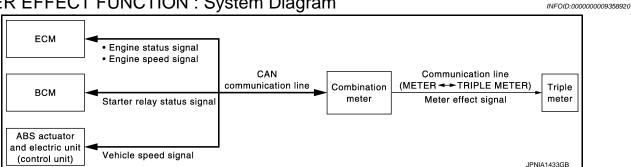
Transmits the position light request signal to the combination meter via CAN communication.

METER EFFECT FUNCTION

INFOID:0000000009358919 MWI

M

METER EFFECT FUNCTION: System Diagram



METER EFFECT FUNCTION: System Description

INFOID:0000000009358921

SYSTEM DESCRIPTION

Engine-start Effect Function

- The combination meter receives engine speed signal and engine status signal from ECM, starter relay status signal from BCM, vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communi-
- The triple meter receives meter effect signal from combination meter via communication line.
- · After the end of cranking and recognition of engine revolution, the combination meter illuminates the meter light in stages and sweeps the needles of the speedometer, tachometer, volt meter and oil temperature gauge.

NOTE:

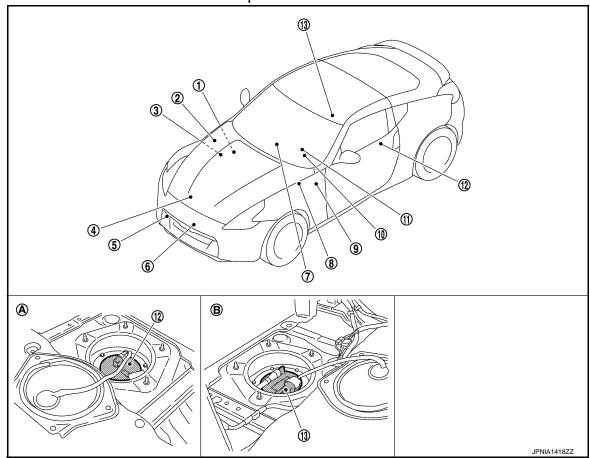
The engine-start effect function enables ON/OFF with an operation of information display.

Cancel Condition

When vehicle speed is more than 1 km/h (0.6 MPH).

METER EFFECT FUNCTION: Component Parts Location

INFOID:0000000009675664



M

MWI

INFOID:0000000009358925

1.	BCM Refer to BCS-11, "Component Parts Location".	2.	IPDM E/R Refer to PCS-5, "Component Parts Location".	3.	ECM Refer to EC-40, "Component Parts Location".	Α
4.	Oil pressure switch Refer to <u>EM-82, "Exploded View"</u> .	5.	Washer level switch	6.	Ambient sensor	В
7.	Triple meter	8.	ABS actuator and electric unit (control unit) Refer to BRC-11, "Component Parts Location".	9.	TCM Refer to TM-154, "Component Parts Location".	С
10.	Combination meter	11.	Parking brake switch	12.	Fuel level sensor unit (sub)	
13.	Fuel level sensor unit and fuel pump (main)					D
A.	Rear parcel shelf cover LH (bottom)	B.	Rear parcel shelf cover RH (bottom)			
MET	ER EFFECT FUNCTION	1 : (Component Description		INFOID:0000000009358923	Е

Unit	Description
Combination meter	 Receives signals from each unit with the CAN communication and performs meter effect. Transmits meter effect signal to the triple meter via communication line.
Triple meter	Receives signals from combination meter via communication line and performs meter effect.
ECM	Transmits engine speed signal and engine status signal to the combination meter via CAN communication.
BCM	Transmits starter relay status signal to the combination meter via CAN communication.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to the combination meter via CAN communication.

INFORMATION DISPLAY

INFORMATION DISPLAY: System Diagram

INFOID:0000000009358924 **ECM** Ambient sensor signal Ambient sensor Combination meter Information display Washer level switch signal CAN Washer level switch communication ABS actuator and electric unit line (control unit) Meter control Parking brake switch signal switch signal Parking brake switch Meter control switch Fuel level sensor signal Fuel level sensor unit всм JPNIA1357GB

INFORMATION DISPLAY: System Description

DESCRIPTION

- The combination meter receives the information required for controlling the operations of the information display from the various units via CAN communication.
- The combination meter incorporates a trip computer that displays the warning/information according to the information received from various units.

PARKING BRAKE RELEASE WARNING

MWI-27 Revision: 2013 May 2014 370Z

< SYSTEM DESCRIPTION >

The combination meter indicates the parking brake release warning judged by the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from the parking brake switch.

Warning Operation Condition

Parking brake release warning is judged if all of the following conditions are fulfilled.

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

LOW FUEL WARNING

The combination meter indicates the low fuel warning judged by the fuel level sensor signal received from the fuel level sensor unit.

Warning Operation Condition

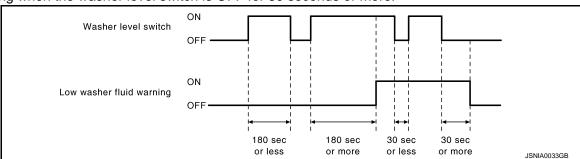
Fuel level: Approx. 13 ℓ (3-3/8 US gal, 2-7/8 Imp gal) or less

LOW WASHER FLUID WARNING

The combination meter indicates the low washer fluid warning judged by the signal from the washer level switch.

Warning Operation Condition

 Indicates the warning when the washer level switch is ON for 180 seconds or more. Stops indicating the warning when the washer level switch is OFF for 30 seconds or more.



DOOR OPEN WARNING

The combination meter indicates the door open warning judged by each door switch signal received from the BCM via CAN communication line.

FUEL FILLER CAP WARNING

- The combination meter receives remaining fuel filler cap warning display signal from the ECM with CAN communication line.
- The combination meter indicates fuel filler cap warning when receiving remaining fuel filler cap warning display signal.
- The combination meter indicates fuel filler cap warning judged with the fuel filler cap warning display signal received from the ECM.

For details, refer to EC-135, "System Description".

INSTANTANEOUS FUEL CONSUMPTION (MPG)

- The combination meter receives the fuel consumption monitor signal from the ECM and the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication.
- The combination meter calculates instantaneous fuel consumption according to the fuel consumption monitor signal and the vehicle speed signal received via CAN communication.

AVERAGE FUEL CONSUMPTION (MPG)

- The combination meter receives the fuel consumption monitor signal from the ECM and the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication.
- The combination meter calculates the average fuel consumption according to the fuel consumption monitor signal and the vehicle speed signal received via CAN communication.
- The average fuel consumption displayed on the information display is uploaded in approximately 30-second intervals.

NOTE:

"----" is displayed for approximately 30 seconds just after the reset operation or after the ignition switch is OFF \rightarrow ON. It is displayed continuously until the vehicle drives approximately 500 m (0.31 mile).

METER SYSTEM

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

AVERAGE VEHICLE SPEED (MPH)

- The combination meter receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication.
- Measures the time while the ignition switch is ON through the combination meter.
- The combination meter the average vehicle speed according to the above signals.
- The average vehicle speed displayed on the information display is uploaded in approximately 30-second intervals.

NOTE:

-" is displayed for 30 seconds just after the reset operation or after the ignition switch is OFF ightarrow ON. It is displayed continuously until the vehicle drives approximately 500 m (0.31 mile).

TRAVEL TIME (TIME)

Measures the time while the ignition switch is ON through the combination meter.

TRAVEL DISTANCE (MILES)

- The combination meter receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication.
- The combination meter calculates the vehicle distance according to the vehicle speed signal. The vehicle distance is displayed.

POSSIBLE DRIVING DISTANCE (RANGE)

The combination meter calculates possible driving distance according to the vehicle speed signal and fuel consumption monitor signal transmitted via CAN communication and the fuel level sensor signal transmitted from the fuel level sensor.

NOTE:

- -" is displayed for 30 seconds after the ignition switch is OFF ightarrow ON. It is displayed continuously until the vehicle drives approximately 500 m (0.31 mile).
- The indicated values may not match each other when refueling with the ignition switch ON. Refer to MWI-99. "INFORMATION DISPLAY: Description".

AMBIENT AIR TEMPERATURE

- The combination meter receives the ambient sensor signal from the ambient sensor.
- The combination meter calculates the ambient temperature according to the ambient sensor signal.
- The indicated temperature does not increase if the vehicle speed is less than 20 km/h (12 MPH).

NOTE:

- The ambient sensor input value that is displayed on "Data Monitor" of CONSULT is the value before the correction. It may not match the indicated temperature on the information display.
- The ambient temperature may be indicated higher than the actual temperature, depending on heat in the engine, the road surface temperature, and so on.

SETTING

Setting item list

Items		Setting range	Setting unit	Description
ALERT	UP SHIFT	No setting - 9,000 rpm	100 rpm [500 rpm]*	The engine speed signal received from ECM via CAN communication, and the up-shift indicator can be set to ON/OFF depending on the engine speed.
	TIMER	No setting - 6 hours	30 minutes, [60 minutes]*	Time to rest is displayed on the information display if the vehicle reached the set travel distance.
	ICY	ON/OFF	_	Low outside temp is displayed on the information display if the ambient temperature is 3°C (37°F) or less.

В

D

L

M

MWI

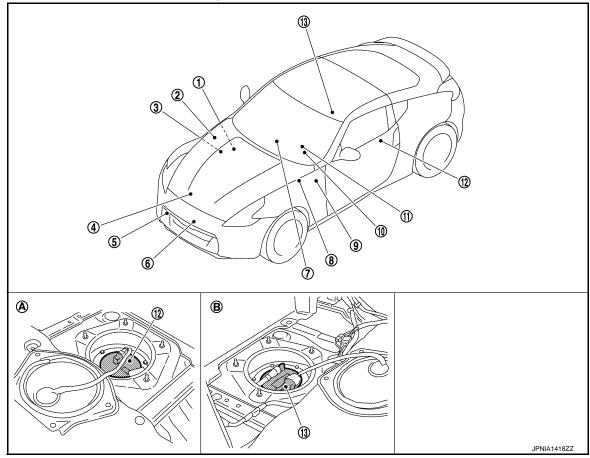
MWI-29 Revision: 2013 May 2014 370Z

Items		Setting range	Setting unit	Description
	OIL	No setting - 18,500 miles, (No setting - 30,000 km)	250 miles (500 km), [500 miles (1,000 km)]*	The engine oil replacement interval is displayed on the information display if the vehicle reached the set distance.
MAINITENANCE	FILTER	No setting - 18,500 miles, (No setting - 30,000 km)	250 miles (500 km), [500 miles (1,000 km)]*	The oil filter replacement interval is displayed on the information display if the vehicle reached the set distance.
MAINTENANCE	TIRE	No setting - 18,500 miles, (No setting - 30,000 km)	250 miles (500 km), [500 miles (1,000 km)]*	The tire replacement interval is displayed on the information display if the vehicle reached the set distance.
	OTHER	No setting - 18,500 miles, (No setting - 30,000 km)	250 miles (500 km), [500 miles (1,000 km)]*	The other replacement interval is displayed on the information display if the vehicle reached the set distance.
	LANGUAGE	ENGLISH/FRANCAIS	_	The language setting can be changed.
OPTIONS	EFFECTS	ON/OFF	_	The engine-start effect function setting can be changed.
	UNIT	US/METRIC	_	The unit setting can be changed.
CLOCK	SETTING	1:00 - 12:59	Hour : Minutes	Can set the time of the clock.
CLOCK	RESET	_	Reset	Minutes indication be comes zero.

^{*:} Press and hold the switch (1 second or more).

INFORMATION DISPLAY: Component Parts Location

INFOID:0000000009675665



BCM

- 1. Refer to <u>BCS-11, "Component Parts</u> 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to <u>EM-82</u>, "<u>Exploded View"</u>.

IPDM E/R

Refer to PCS-5, "Component Parts Location".

Washer level switch

- ECM
- 3. Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

- ABS actuator and electric unit (control unit) 7. Triple meter
 - Refer to BRC-11, "Component Parts Location".
- **TCM** Refer to TM-154, "Component Parts Location".

- Combination meter
- 11. Parking brake switch
- 12. Fuel level sensor unit (sub)

- Fuel level sensor unit and fuel pump 13. (main)
- Rear parcel shelf cover RH (bottom) Rear parcel shelf cover LH (bottom) B.

INFORMATION DISPLAY: Component Description

INFOID:0000000009358927

Α

В

D

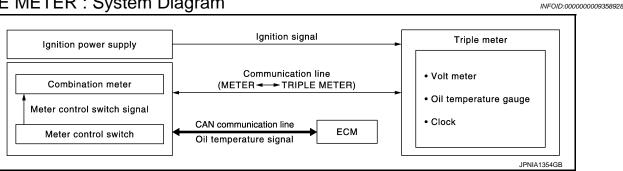
Е

F

Unit	Description			
Combination meter	Controls the information display according to the signal received from each unit.			
Fuel level sensor unit	Refer to MWI-48, "Description".			
	Transmits the following signals to the combination meter via CAN communication.			
ECM	Engine speed signal Fuel filler cap warning display signal			
	Fuel consumption monitor signal			
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.			
BCM	Transmits signals provided by various units to the combination meter via CAN communication.			
Washer level switch	Transmits the washer level signal to the combination meter.			
Parking brake switch	Refer to MWI-53, "Description".			
Door switch	Transmits the door switch signals to BCM.			
Ambient sensor	Detects the ambient air temperature and transmits the ambient sensor signal to the combinatio meter.			

TRIPLE METER

TRIPLE METER: System Diagram



TRIPLE METER: System Description

INFOID:0000000009358929

2014 370Z

VOLT METER

Revision: 2013 May

Triple meter indicates the battery voltage on volt meter, when triple meter receives the ignition signal (from ignition power supply)

OIL TEMPERATURE GAUGE

Triple meter receives the oil temperature signal from combination meter via communication line, and then indicates the engine oil temperature on oil temperature gauge.

CLOCK

Triple meter receives the clock signal from combination meter, and then displays the time on clock.

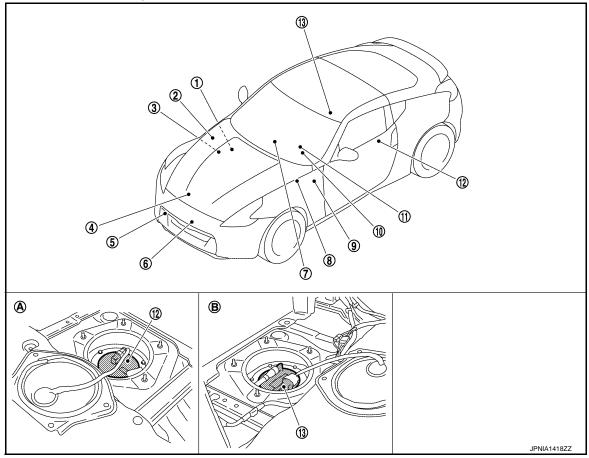
MWI-31

MWI

M

TRIPLE METER: Component Parts Location

INFOID:0000000009675719



BCM

- Refer to <u>BCS-11</u>, "Component Parts 2. <u>Location"</u>.
- 4. Oil pressure switch Refer to <u>EM-82</u>, "<u>Exploded View</u>".
- 7. Triple meter
- 10. Combination meter
- 13. Fuel level sensor unit and fuel pump (main)
- A. Rear parcel shelf cover LH (bottom) B. Rear parcel shelf cover RH (bottom)

IPDM E/R

- Refer to PCS-5, "Component Parts Location".
- . Washer level switch

ABS actuator and electric unit (control unit)

- Refer to BRC-11, "Component Parts Location".
- 11. Parking brake switch

ECM

- Refer to EC-40, "Component Parts Location".
- 6. Ambient sensor

TCM

- 9. Refer to TM-154, "Component Parts Location".
- 12. Fuel level sensor unit (sub)

TRIPLE METER: Component Description

INFOID:0000000009358931

Unit	Description		
Triple meter	Controls the triple meter according to the signals received from combination meter.		
Combination meter	 Receives the oil temperature signal from ECM via CAN communication line, and then transmits the signal to triple meter via communication line (METER⇔TRIPLE METER). Receives the meter control switch signal from meter control switch, and then transmits those signals to triple meter via communication line (METER⇔TRIPLE METER). 		
ECM	Transmits the oil temperature signal to combination meter via CAN communication line.		

INFOID:0000000009358932

Α

В

D

Е

M

MWI

DIAGNOSIS SYSTEM (METER)

Diagnosis Description

SELF-DIAGNOSIS MODE

- LCD segment operation can be checked in self-diagnosis mode.
- Meters/gauges can be checked in self-diagnosis mode.

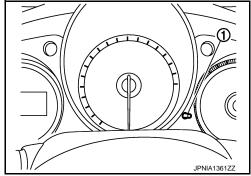
OPERATION PROCEDURE

- Turn ignition switch OFF.
- While pressing the trip reset switch (1), turn ignition switch ON.
- 3. Make sure that the trip meter displays "0000.0".

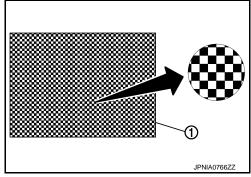
NOTE:

If the diagnosis function is activated with "trip A" displayed, the mileage on "trip A" is reset to "0000.0". (The same way for "trip

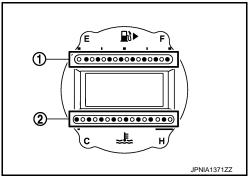
Press the trip reset switch at least 3 times. (Within 7 seconds after the ignition switch is turned ON.)



- The unified meter control unit is turned to self-diagnosis mode.
 - The segment dots of the information display LCD (1) blink alternately.
 - · Speedometer, tachometer, volt meter, and oil temperature gauge return to zero respectively.
 - All the segments of clock, manual mode indicator, S-MODE indicator, odo/trip meter, and shift position indicator illuminate.



- The fuel gauge (1) blink alternately.
- The engine coolant temperature gauge (2) blink alternately.

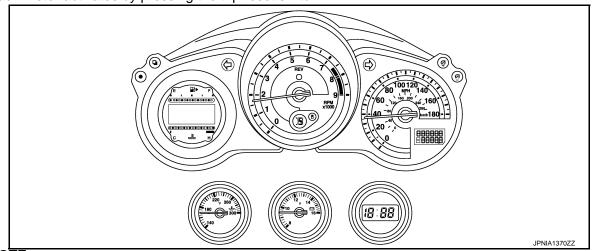


NOTE:

Revision: 2013 May

- · Check combination meter power supply and ground circuit when the self-diagnosis mode of the combination meter does not start. Replace combination meter if power supply and ground circuit are normal.
- When turning the ignition switch ON, if the triple meter has a malfunction and the self-diagnosis mode for triple meter does not starts, check the power supply and ground circuit of the triple meter, and the communication line circuit (METER⇔TRIPLE METER). Replace triple meter if power supply and ground circuit and the communication line circuit (METER⇔TRIPLE METER) are normal.
- If any of the segments does not illuminate, replace the combination meter or the triple meter (only when the clock of a segment that does not illuminate).

6. Each meter activates by pressing the trip reset switch.



NOTE:

- If any of the meters or gauges is not activated, replace combination meter or triple meter.
- The figure is reference.

CONSULT Function (METER/M&A)

INFOID:0000000009358933

CONSULT APPLICATION ITEMS

CONSULT can perform the following diagnosis modes via CAN communication and the combination meter.

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	The combination meter checks the conditions and displays memorized errors.
	Data Monitor	Displays the combination meter input/output data in real time.
	Warning History	Lighting history of the warning lamp and indicator lamp can be checked.

SELF DIAG RESULT

Refer to MWI-77, "DTC Index".

DATA MONITOR

NOTE:

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

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h]	Х	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h]	х	Vehicle speed signal value transmitted to other units via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km/h or mph]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	х	Value of the engine speed signal received from ECM via CAN communication. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [L]	Х	Fuel level indicated on combination meter.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

Α

В

С

D

Е

F

G

Н

Κ

L

M

MWI

0

Ρ

Display item [Unit]	MAIN SIGNALS	Description
W TEMP METER [°C]	Х	Value of engine coolant temperature signal is received from ECM via CAN communication. NOTE: 215 is displayed when the malfunction signal is input.
ABS W/L [On/Off]		Status of ABS warning lamp detected from ABS warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.
VDC/TCS IND [On/Off]		Status of VDC OFF indicator lamp detected from VDC OFF indicator lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.
SLIP IND [On/Off]		Status of VDC warning lamp detected from VDC warning lamp signal received from ABS actuator and electric unit (control unit) via CAN communication.
BRAKE W/L [On/Off]		Status of brake warning lamp detected from brake warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON
DOOR W/L [On/Off]		Status of door warning detected from door switch signal received from BCM via CAN communication.
TRUNK/GLAS-H [Off]		This item is displayed, but cannot be monitored.
HI-BEAM IND [On/Off]		Status of high beam indicator lamp detected from high beam request signal is received from BCM via CAN communication.
TURN IND [On/Off]		Status of turn indicator lamp detected from turn indicator signal is received from BCM via CAN communication.
RR FOG IND [On/Off]		Status of rear fog lamp indicator lamp detected from rear fog lamp status signal is received from BCM via CAN communication.
LIGHT IND [On/Off]		Status of light indicator lamp detected from position light request signal is received from BCM via CAN communication.
OIL W/L [On/Off]		Status of oil pressure warning lamp detected from oil pressure switch signal is received from BCM via CAN communication.
MIL [On/Off]		Status of malfunction indicator lamp detected from malfunctioning indicator lamp signal is received from ECM via CAN communication.
CRUISE IND [On/Off]		Status of CRUISE indicator lamp detected from CRUISE indicator lamp signal is received from ECM via CAN communication.
SET IND [Off]		This item is displayed, but cannot be monitored.
ATC/T-AMT W/L [On/Off]		A/T CHECK indicator lamp status judged by the transmission check warning lamp signal received from TCM via CAN communication.
FUEL W/L [On/Off]		Low-fuel warning lamp status detected by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning lamp judged from washer level switch input to combina tion meter.
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp detected from tire pressure signal is received from BCM via CAN communication.
KEY G/Y W/L [On/Off]		Status of key warning lamp (yellow) detected from key warning signal is received from BCM via CAN communication.
MT SYNC REV IND [On/Off]		Status of S-MODE indicator judged from S-MODE indicator signal received from ECM with CAN communication line.
FUEL CAP W/L [On/Off]		Status of fuel filler cap warning judged from fuel filler cap warning display signal received from ECM with CAN communication line.
LCD [C&P N, C&P I, B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY, OUTKY, LK WN]		Displays status of Intelligent Key system warning detected from meter display signal is received from BCM via CAN communication.

Revision: 2013 May **MWI-35** 2014 370Z

DIAGNOSIS SYSTEM (METER)

[REGULAR GRADE]

Display item [Unit]	MAIN SIGNALS	Description
SHIFT IND [P, R, N, D, L, M1, M2, M3, M4, M5, M6, M7]		 Status of shift position indicator detected from shift position signal and manual mode indicator signal is received from TCM via CAN communication. (A/T models) Status of shift position indicator detected from shift position signal is received from ECM via CAN communication. (with SynchroRev Match mode models)
AT S MODE SW [Off]		This item is displayed, but cannot be monitored.
M RANGE SW [On/Off]		Status of manual mode switch.
NM RANGE SW [On/Off]		Status of non-manual mode switch.
AT SFT UP SW [On/Off]		Status of position select switch (up).
AT SFT DWN SW [On/Off]		Status of position select switch (down).
ST SFT UP SW [On/Off]		Status of paddle shifter up switch.
ST SFT DWN SW [On/Off]		Status of paddle shifter down switch.
SYNC MODE [On/Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch (driver side).
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
A/C AMP CONN [On/Off]		Status of A/C auto amp. connection recognition signal.
ENTER SW [On/Off]		Status of (ENTER) switch.
SELECT SW [On/Off]		Status of (SELECT) switch.
MT SYNC REV SW [On/Off]		Status of S-MODE switch.
DISTANCE [km]		Value of possible driving distance calculated by combination meter.
OUTSIDE TEMP [°C or °F]		Ambient air temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit via CAN communication.
BUZZER [On/Off]	Х	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.

NOTE:

Some items are not available according to vehicle specification.

WARNING HISTORY

- Stores histories when warning/indicator lamp is turned on.
- "Warning History" indicates the "TIME" when the warning/ indicator lamp is turned on.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

В

C

D

Е

F

Н

J

K

L

M

- 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 Warning History: Stores NO (0) turning on history of warning/indicator lamp.

NOTE:

- Warning 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.

Display Item

Lighting history of ABS warning lamp.	
Lighting history of VDC OFF indicator lamp.	
Lighting history of VDC warning lamp.	
Lighting history of brake warning lamp.	
Lighting history of door warning.	
Lighting history of oil pressure warning lamp.	
Lighting history of malfunction indicator lamp.	
Lighting history of CRUISE indicator lamp.	
Lighting history of A/T CHECK indicator lamp.	
Lighting history of low fuel level warning.	
Lighting history of low washer fluid warning	
Lighting history of low tire pressure warning lamp.	
Lighting history of key warning lamp (yellow).	
	Lighting history of VDC OFF indicator lamp. Lighting history of VDC warning lamp. Lighting history of brake warning lamp. Lighting history of door warning. Lighting history of oil pressure warning lamp. Lighting history of malfunction indicator lamp. Lighting history of CRUISE indicator lamp. Lighting history of A/T CHECK indicator lamp. Lighting history of low fuel level warning. Lighting history of low fuel level warning. Lighting history of low washer fluid warning Lighting history of low tire pressure warning lamp.

NOTE:

In items displayed on the CONSULT screen, only those listed in the above table are used.

MWI

0

Р

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000009358934

CAN (Controller Area Network) is a serial communication system for real time application. It is an on-vehicle multiplex communication system with high data communication speed and excellent error detectability. Many electronic control units are equipped onto vehicles, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with two communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
U1000	CAN COMM CIRCUIT	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system

Diagnosis Procedure

INFOID:0000000009358936

1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" of "METER/M&A".

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-45, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

111010	CONTROL	LINIT	(CANI)
\mathbf{O} \mathbf{I} \mathbf{O} \mathbf{I} \mathbf{O}	CONTROL	. UINII	(CAN

Description

Initial diagnosis of combination meter.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	Diagnostic item is detected when	Probable malfunction location
U1010	CONTROL UNIT (CAN)	If any malfunction is detected during initial diagnosis of combination meter CAN controller	Combination meter

Diagnosis Procedure

1. REPLACE COMBINATION METER

When DTC "U1010" is detected, replace combination meter.

>> INSPECTION END

Н

Α

В

D

Е

INFOID:0000000009358939

J

K

M

MWI

0

Р

B2201 COMMUNICATION ERROR 1

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

B2201 COMMUNICATION ERROR 1

Description INFOID:0000000009358940

The communication line (METER <-> TRIPLE METER) is used to communicate signals between the combination meter and the triple meter in order to control the triple meter.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2201	COMM ERROR 1	If a communication error is present in the communication line (METER⇔TRIPLE METER) for 2 seconds or more	Communication line (METER⇔TRIPLE METER) circuit

Diagnosis Procedure

INFOID:0000000009358942

1. CHECK CONNECTOR

Check combination meter, triple meter and terminals (combination meter side, triple meter side, and harness side) for looseness or bent.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair terminal or connector.

2.CHECK CONTINUITY COMMUNICATION CIRCUIT

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

Combin	Combination meter		Triple meter	
Connector	Terminal	Connector	Terminal	Continuity
M53	9	M242	4	Existed
IVIOS	10	101242	5	LAISIEU

4. Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M53	9	Ground	Not existed
WOS	10		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK COMBINATION METER OUTPUT VOLTAGE

- Connect combination meter connector.
- Turn ignition switch ON.
- Check voltage between combination meter harness connector and ground.

B2201 COMMUNICATION ERROR 1

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Α

В

D

Е

F

Н

K

Terminals			
(+)			Voltage (Approx.)
Combination meter		(-)	(Approx.)
Connector	Terminal	Ground	
M53	10	Sibuna	5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination meter.

4. CHECK TRIPLE METER OUTPUT VOLTAGE

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector.
- 3. Connect triple meter connector.
- 4. Turn ignition switch ON.
- 5. Check voltage between triple meter harness connector and ground.

Terminals			
(+)			Voltage (Approx.)
Triple	meter	()	(Approx.)
Connector	Connector Terminal Ground		
M242	4	Giouna	5 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace triple meter.

MWI

M

0

Р

B2205 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

B2205 VEHICLE SPEED

Description INFOID:0000000009358943

Vehicle speed signal is transmitted from ABS actuator and electric unit (control unit) via CAN communication to combination meter.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2205	VEHICLE SPEED	An abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more	Wheel sensor ABS actuator and electric unit (control unit)

Diagnosis Procedure

INFOID:0000000009358945

 $1.\mathsf{perform}$ self-diagnosis of abs actuator and electric unit (control unit)

Perform "Self Diagnostic Result" of ABS actuator and electric unit (control unit), and repair or replace malfunctioning parts.

>> Refer to BRC-22, "CONSULT Function".

B2267 ENGINE SPEED

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

B2267 ENGINE SPEED

Description INFOID:000000000358946

The engine speed signal is transmitted from ECM to the combination meter via CAN communication.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2267	ENGINE SPEED	ECM continuously transmits abnormal engine speed signals for 2 seconds or more	Crankshaft position sensor (POS) ECM

Diagnosis Procedure

1.PERFORM SELF-DIAGNOSIS OF ECM

Perform "Self Diagnostic Result" of ECM, and repair or replace malfunctioning parts.

>> Refer to EC-155, "CONSULT Function".

Α

В

D

Е

INFOID:0000000009358948

. .

.

K

L

M

MWI

C

Р

B2268 WATER TEMP

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

B2268 WATER TEMP

Description INFOID:0000000009358949

The engine coolant temperature signal is transmitted from ECM to the combination meter via CAN communication.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2268	WATER TEMP	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more	

Diagnosis Procedure

INFOID:0000000009358951

1. PERFORM SELF-DIAGNOSIS OF ECM

Perform "Self Diagnosis Result" of ECM, and repair or replace malfunctioning parts.

>> Refer to EC-155, "CONSULT Function".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

INIE

COMBINATION METER: Diagnosis Procedure

INFOID:0000000009358952

Α

В

D

Е

F

Н

K

1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery (With front door satellite sensor)	6
Battery (Without front door satellite sensor)	11
Ignition switch ACC or ON	19
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

Terminals				
(+) (-)		Ignition switch po-	Voltage	
Combination meter			sition	(Approx.)
Connector	Terminal			
	1	Ground	OFF	
M53	15		ACC	Battery voltage
	2		ON	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

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

Combination meter			Continuity	
Connector	Terminal	Ground	Continuity	
M53	17	Ground	Existed	
WI33	23		LXISTEG	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

TRIPLE METER

TRIPLE METER: Diagnosis Procedure

1.CHECK FUSE

Check for blown fuses.

MWI

M

Р

INFOID:0000000009358953

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Power source	Fuse No.
Battery (With front door satellite sensor)	6
Battery (Without front door satellite sensor)	11
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

	Terminals			
(+) (-)		Ignition switch po-	Voltage	
Triple	Triple meter		sition	(Approx.)
Connector	Terminal	Ground		
M242	2	Ground	OFF	Pattory voltage
101242	3		ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between triple meter and fuse.

3.CHECK GROUND CIRCUIT

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

Triple meter			Continuity
Connector Terminal		Ground	Continuity
M242	1		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

Signal name	Fuses and fusible link No.	
	С	
Battery power supply	50	
	51	

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn the ignition switch OFF.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Α

В

D

Е

F

Н

K

- 2. Disconnect IPDM E/R connector.
- 3. Check voltage between IPDM E/R harness connector and the ground.

Terminals			
(+)		(-) Voltage	Voltage
IPDI	IPDM E/R		(Approx.)
Connector	Terminal	Ground	
E4	1	Glound	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between IPDM E/R harness connectors and the ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	12		Existed
E6	41		LAISIEU

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

MWI

M

0

Р

[REGULAR GRADE]

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Description INFOID:000000009675957

The fuel level sensor unit and fuel pump (main) and the fuel level sensor unit (sub) detect the fuel level in the fuel tank and transmit the fuel gauge signal to the combination meter.

Component Function Check

INFOID:0000000009675958

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect fuel level sensor unit and fuel pump (main) connector and fuel level sensor unit (sub) connector
- 3. Connect variable resistor between harness connector terminals located on the vehicle side of the fuel level sensor unit and fuel pump (main) and fuel level sensor unit (sub).

Fuel level sensor unit and fuel pump (main)		Fuel level ser	nsor unit (sub)
Connector Terminal		Connector	Terminal
B22	5	B21	1

4. Set variable resistor according to the resistance value shown in the following table and turn ignition switch ON.

Resistance $\left(\Omega\right)^{*}$ (Approx.)	Fuel gauge indication position
Less than 6.0	16/16 (Full)
11.5	15/16
17.0	14/16
21.3	13/16
25.5	12/16 (Three quarters)
30.5	11/16
35.5	10/16
40.5	9/16
45.5	8/16 (Half)
50.8	7/16
56.0	6/16
61.0	5/16
66.0	4/16 (A quarter)
69.3	3/16
72.5	2/16
More than 76.3	1/16 (Empty)

^{*:} The specification value that a combination meter judges the number of the segment lighting of the fuel gauge.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to MWI-49, "Diagnosis Procedure".

2. PERFORM COMPONENT FUNCTION CHECK (2)

Check the fuel level sensor unit and fuel pump (main) and/or fuel level sensor unit (sub). Refer to MWI-50, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

NO >> Replace the fuel level sensor unit and fuel pump (main) and/or fuel level sensor unit (sub). Refer to FL-6, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000009675959

Α

В

D

Е

1. CHECK FUEL LEVEL SENSOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector and fuel level sensor unit (sub) connector.
- 3. Check continuity between combination meter harness connector and fuel level sensor unit (sub) harness connector.

Combination meter		Fuel level sensor unit (sub)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M54	34	B21	1	Existed

4. Check continuity between combination meter harness connector and ground.

Combina	tion meter		Continuity
Connector	Connector Terminal		Continuity
M54	34		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK FUEL LEVEL SENSOR UNIT (MAIN-SUB) CIRCUIT

- 1. Disconnect fuel level sensor unit and fuel pump (main) connector.
- 2. Check for continuity between the fuel level sensor unit (sub) harness connector and the fuel level sensor unit and fuel pump (main) harness connector.

Fuel level se	nsor unit (sub)	Fuel level sensor unit and fuel pump (main)		unit (sub)		Continuity
Connector	Terminal	Connector Terminal				
B21	2	B22	2	Existed		

Check for continuity between the fuel level sensor unit (sub) harness connector and the ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
B21	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.check fuel level sensor ground circuit

Check continuity between fuel level sensor unit and fuel pump (main) harness connector and combination meter harness connector.

	Fuel level sensor unit and fuel pump (main)		Combination meter	
Connector	Terminal	Connector	Terminal	
B22	5	M53	24	Existed

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-103, "Removal and Installation".

NO >> Repair harness or connector.

Revision: 2013 May **MWI-49** 2014 370Z

MWI

Р

M

FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

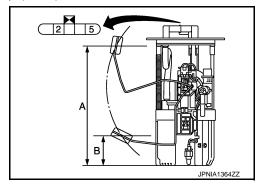
Component Inspection

INFOID:0000000009675960

1. CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)

- 1. Remove the fuel level sensor unit and fuel pump (main). Refer to FL-6, "Removal and Installation".
- 2. Check the resistance between fuel level sensor unit and fuel pump (main).

Terminals Fuel level sensor unit and fuel pump (main)			Resistance (Ω)	
		Condition	(Approx.)	Height [mm (in)]
2	5	Full (A)	3	226 (8.90)
2	5	Empty (B)	80	39 (1.54)



Is inspection result OK?

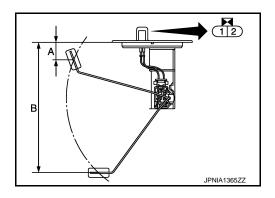
YES >> GO TO 2.

NO >> Replace fuel level sensor unit and fuel pump (main). Refer to FL-6, "Removal and Installation".

2.CHECK FUEL LEVEL SENSOR UNIT (SUB)

- 1. Remove the fuel level sensor unit (sub). Refer to FL-6, "Removal and Installation".
- 2. Inspect the resistance of fuel level sensor unit (sub).

Term	ninals		Resistance (Ω)	
	vel sen- it (sub)	Condition	(Approx.)	Height [mm (in)]
1	2	Full (A)	3	30 (1.18)
'	Empty (B)	41	238 (9.37)	



Is inspection result OK?

YES >> INSPECTION END

NO >> Replace fuel level sensor unit (sub). Refer to FL-6, "Removal and Installation".

OIL PRESSURE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

INFOID:0000000009358960

INFOID:000000000935896

Α

В

D

Е

Н

DIL PRESSURE SWITCH SIGNAL CIRCUIT

Description

Detects the engine oil pressure and transmits the oil pressure switch signal to IPDM E/R.

Component Function Check

1. CHECK COMBINATION METER INPUT SIGNAL

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

"OIL W/L"

Ignition switch ON : On Engine running : Off

>> INSPECTION END

Diagnosis Procedure

1. CHECK OIL PRESSURE SWITCH CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect IPDM E/R connector and oil pressure switch connector.
- 3. Check continuity between IPDM E/R harness connector and oil pressure switch harness connector.

(Continuity			
IPDN	/I E/R	Oil pressure switch		Continuity
Connector	Terminal	Connector Terminal		
E7	75	F37 1		Existed

4. Check continuity between IPDM E/R harness connector and ground.

(Continuity		
IPDN	M E/R		Continuity
Connector	Terminal	Ground	
E7	75		Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

1. CHECK OIL PRESSURE SWITCH

MWI

INFOID:0000000009358962

M

Р

2014 370Z

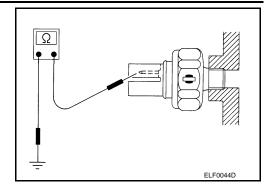
OIL PRESSURE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Check continuity between oil pressure switch and ground.

Condition	Continuity
Engine stopped	Existed
Engine running	Not existed



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace oil pressure switch.

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

INFOID:0000000009358964

Α

В

D

Е

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:0000000009358963

Transmits the parking brake switch signal to the combination meter.

Diagnosis Procedure

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Start the engine.
- 2. Check the voltage between combination meter harness connector and ground.

	Terminals		Condition Engine idling When parking brake is applied When parking brake is released			
(-	+)	(-)			Condition	
Combinat	ion meter				(Approx.)	
Connector	Terminal	Ground				
M54	26	Giodila			0 V	
IVIJ4	20				12 V	

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector and parking brake switch connector.
- Check continuity between combination meter harness connector and parking brake switch harness connector.

Combina	tion meter	Parking brake switch		Continuity
Connector	Terminal	Connector	Terminal	
M54	26	M68	1	Existed

4. Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal Ground		
M54	26	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

1. CHECK PARKING BRAKE SWITCH

Check parking brake switch. Refer to BRC-76, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace parking brake switch.

MWI

INFOID:0000000009358965

M

Revision: 2013 May **MWI-53** 2014 370Z

WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

WASHER LEVEL SWITCH SIGNAL CIRCUIT

Description

Transmits the washer level switch signal to the combination meter.

Diagnosis Procedure

INFOID:0000000009358967

1. CHECK WASHER LEVEL SWITCH SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector and washer level switch connector.
- Check continuity between combination meter harness connector and washer level switch harness connector.

Combina	tion meter	Washer level switch		Continuity
Connector	Terminal	Connector	Terminal	
M54	29	E32	1	Existed

4. Check continuity between combination meter harness connector and ground.

Combina	Continuity		
Connector	Connector Terminal		
M54	29		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK WASHER LEVEL SWITCH GROUND CIRCUIT

Check continuity between washer level switch connector and ground.

Washer le	evel switch		Continuity
Connector	Terminal	Ground	
E32 2			Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000009358968

1. CHECK WASHER LEVEL SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect washer level switch connector.
- Check washer level switch.

Terminals Washer level switch		Condition	Continuity	
		Condition	Continuity	
1	2	Washer level switch ON	Existed	
	1 2	Washer level switch OFF	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

>> Replace washer level switch. Refer to <a href="https://www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.asher.level.gov/www.ashe NO Α В С D Е F G Н J Κ L M

MWI

0

Ρ

A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL CIRCUIT RCUIT DIAGNOSIS > [REGULAR GRADE]

< DTC/CIRCUIT DIAGNOSIS >

A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL CIRCUIT

Description

A/C auto amp. transmits the A/C auto amp. connection recognition signal to the combination meter.

Diagnosis Procedure

INFOID:0000000009358970

1. CHECK A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between combination meter harness connector and ground.

(+	Voltage		
Combination meter			(Approx.)
Connector	Connector Terminal		
M53	19		5 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect combination meter connector and A/C auto amp. connector.
- 3. Check continuity between combination meter harness connector and A/C auto amp. harness connector.

Combina	tion meter	A/C auto amp.		Continuity
Connector	Terminal	Connector terminal		Continuity
M53	19	M66	34	Existed

4. Check continuity between combination meter harness connector and ground.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M53	19		Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Α

В

D

Е

F

Н

J

K

L

M

MWI

0

Р

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h or mph]	Ignition switch ON	_	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the mal- function signal is received
FUEL METER [L]	Ignition switch ON	_	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
ABS W/L		ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDO/TOS IIND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	SLIP Indicator lamp ON	On
OLII IIID	ON	SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
DIVINE W/L	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	Door warning lamp ON	On
DOOK W/L	ON	Door warning lamp OFF	Off
TRUNK/GLAS-H	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
HI-BEAM IND	Ignition switch	High-beam indicator lamp ON	On
I II-DEAM IND	ON	High-beam indicator lamp OFF	Off
TUDNIND	Ignition switch	Turn signal indicator lamp ON	On
TURN IND	ON	Turn signal indicator lamp OFF	Off
DD EOG IND	Ignition switch	Rear fog lamp indicator lamp ON	On
RR FOG IND	ŎN	Rear fog lamp indicator lamp	Off

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Monitor Item		Condition	Value/Status
LIGHT IND	Ignition switch	Tail lamp indicator lamp ON	On
LIGHT IND	ON	Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ON	Oil pressure warning lamp OFF	Off
NAIL	Ignition switch	Malfunction indicator lamp ON	On
MIL	ON	Malfunction indicator lamp OFF	Off
ODUNOE IND	Ignition switch	Cruise indicator lamp ON	On
CRUISE IND	ON	Cruise indicator lamp OFF	Off
ATO/T ANAT VA//I	Ignition switch	A/T CHECK indicator lamp ON	On
ATC/T-AMT W/L	ON	A/T CHECK indicator lamp OFF	Off
4WD W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
4WD LOCK IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
FUEL W/L	Ignition switch	Low-fuel warning displayed	On
FUEL VV/L	ON	Low-fuel warning not displayed	Off
WASHER W/L	Ignition switch	Washer warning displayed	On
WASHER W/L	ON	Washer warning not displayed	Off
AIR PRES W/L	Ignition switch ON	Low tire pressure lamp ON	On
AIR FRES W/L		Low tire pressure lamp OFF	Off
KEY G/Y W/L	Ignition switch	KEY warning lamp (yellow) ON	On
KET G/T W/L	ON	KEY warning lamp (yellow) OFF	Off
KEY R W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
KEY KNOB W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
AFS OFF IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
MT SYNC REV IND	Ignition switch	S-MODE indicator ON	On
INI STING KEV IND	ON	S-MODE indicator OFF	Off
FLIEL CAD W/	Ignition switch	Fuel filler cap warning displayed	On
FUEL CAP W/L	ON	Fuel filler cap warning not displayed	Off

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Α

В

С

D

Е

F

G

Н

Κ

L

M

MWI

0

Ρ

Monitor Item		Condition	Value/Status
	Ignition switch	Engine start information display (A/T models)	B&P I
	ON	Engine start information display (M/T models)	C&P I
	Ignition switch	Engine start information display (A/T models)	B&P N
	LOCK or ACC	Engine start information display (M/T models)	C&P N
	Ignition switch LOCK	Key ID warning display	ID NG
LCD	Ignition switch LOCK	Steering lock information display	ROTAT
	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
	Ignition switch ON	ACC warning display	LK WN
		Shift position indicator P display	Р
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator L display	L
NUET IND	Ignition switch	Shift position indicator M1 display	M1
SHIFT IND	ŎN	Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
		Shift position indicator M5 display	M5
		Shift position indicator M6 display	M6
		Shift position indicator M7 display	M7
AT S MODE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
A DANIOE OW	Ignition switch	Selector lever manual mode position	On
I RANGE SW	ŎN	Other than the above	Off
	Ignition switch	Selector lever manual mode position	Off
IM RANGE SW	ŎN	Other than the above	On
T 05T LID 0'4'	Ignition switch	Selector lever + position	On
T SFT UP SW	ON	Other than the above	Off
	Ignition switch	Selector lever – position	On
AT SFT DWN SW	ON	Other than the above	Off
	Ignition switch	Paddle shifter switch up operation	On
ST SFT UP SW	ON	Other than above	Off

Revision: 2013 May **MWI-59** 2014 370Z

< ECU DIAGNOSIS INFORMATION >

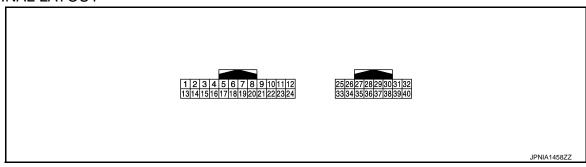
[REGULAR GRADE]

Monitor Item		Condition	Value/Status
OT OFT DWALOW	Ignition switch	Paddle shifter switch down operation	On
ST SFT DWN SW	ON	Other than above	Off
PKB SW	Ignition switch	Parking brake switch ON	On
PND SW	ON	Parking brake switch OFF	Off
DUCKI E CW	Ignition switch	Seat belt not fastened	On
BUCKLE SW	ON	Seat belt fastened	Off
DDAKE OIL CW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
	lanition awitch	Other than the following	On
A/C AMP CONN	Ignition switch ON	Receives A/C auto amp. connection recognition signal	Off
AMB POWER	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ENTER SW	Ignition switch	When 🖬 is pressed	On
LIVILICOV	ON	Other than the above	Off
SELECT SW	Ignition switch	When is pressed	On
OLLLOT OW	ON	Other than the above	Off
MT SYNC REV SW	Ignition switch	S-MODE switch ON	On
WIT STING REV SW	ON	S-MODE switch OFF	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by combination meter
OUTSIDE TEMP [°C or °F]	Ignition switch ON	_	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch	Low fuel warning displayed	On
I DEL LOW SIG	ON	Low fuel warning not displayed	Off
CRANKING SIG	Ignition switch C	DN	On
CIVAININING SIG	At engine crank	ing	Off
ST CNT SIG	Ignition switch C	DN	On
ST CIVI SIG	At engine crank	ing	Off
BUZZER	Ignition switch	Buzzer ON	On
DUZZEN	ON	Buzzer OFF	Off

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

[REGULAR GRADE]

Company Comp	Termina (Wire o		Description			Condition	Value
Common Battery voltage Common Battery voltage Common C	+	-	Signal name			Condition	(Approx.)
Ground Ignition signal Input Switch ON Speedometer operated When vehicle speed is approx. 40 km/h (25 MPH) Ignition Speedometer operated When vehicle speed is approx. 40 km/h (25 MPH) Input Ignition Speedometer operated When vehicle speed is approx. 40 km/h (25 MPH) Input Ignition Speedometer operated Input Ignition Speedometer operated Input Ignition Speedometer operated Input Input		Ground	Battery power supply	Input	switch	_	Battery voltage
Ground Vehicle speed signal (2-pulse) Output Switch ON Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Output Switch ON Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] NOTE: The maximum voltage varies of pending on the specification (destination unit). Ignition Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Ignition Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Ignition Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Ignition Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Ignition Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] Ignition Ignit		Ground	Ignition signal	Input	switch	_	Battery voltage
Ground (8-pulse) Output Speedometer operated (When vehicle speed is approx. 40 km/h (25 MPH)] Lighting switch 1ST When meter illumination is maximum Uvehicle speed signal (8-pulse) Output Switch ON Under the maximum voltage varies of pending on the specification (destination unit). Lighting switch 1ST When meter illumination is maximum Under the maximum voltage varies of pending on the specification (destination unit). Lighting switch 1ST When meter illumination is maximum Under the maximum voltage varies of pending on the specification (destination unit). Lighting switch 1ST When meter illumination is step 12		Ground		Output	switch	[When vehicle speed is ap-	The maximum voltage varies depending on the specification (destination unit).
Figure 2.5 ms Ground Illumination control signal Output Switch ON Ignition switch ON Lighting switch 1ST When meter illumination is maximum (V) 15 10 10 2.5 ms JPNIA1363GB	(Y)*1	Ground		Output	switch	[When vehicle speed is ap-	The maximum voltage varies depending on the specification (destination unit).
Ground Illumination control signal Output switch ON Lighting switch 1ST When meter illumination is step 12						 When meter illumination 	10 5 0 2.5 ms
JPNIA1362GB		Ground	Illumination control signal	Output	switch	 When meter illumination 	10 5 0
Lighting switch 1ST When meter illumination is minimum						 When meter illumination 	10 V
6 Ground Roof status signal Input Switch ON Roof warning lamp ON 0 V Roof warning lamp OFF 12 V		Ground	Roof status signal	Input			

[REGULAR GRADE]

< ECU	DIAGING	SIS INFORMATION >				[KEGOLAK GKADL]
	nal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
9 (BR)	Ground	Communication signal (METER⇒TRIPLE METER)	Output	Ignition switch ON	_	(v) 6 4 2 0 2.5 ms JPNIA1425GB
10 (L)	Ground	Communication signal (TRIPLE METER⇒METER)	Input	Ignition switch ON	_	(v) 6 4 2 0 2.5 ms
12		0.14005		Ignition	S-MODE switch operation	12 V
(G)	Ground	S-MODE switch signal	Input	switch ON	Other than the above	0 V
15 (L)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
16				Ignition	Air bag warning lamp ON	4 V
(R)	Ground	Air bag signal	Input	switch ON	Air bag warning lamp OFF	0 V
17 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
18 (V)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	(V) 4 3 2 1 0 -10 0 10 20 30 40 [*C] (14) (32) (50) (68) (86) (104) [*F] JSNIA0014GB
19 (G)	Ground	A/C auto amp. connection recognition signal	Input	Ignition switch ON		5 V
20 (GR)	Ground	Ambient sensor ground	Input	Ignition switch ON	_	0 V
21 (L)	_	CAN-H	_	_	_	_
22 (P)	_	CAN-L	_	_	_	_
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
24 (Y)	Ground	Fuel level sensor ground	_	Ignition switch ON	_	0 V

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

A

В

С

D

Е

F

G

Н

Κ

L

 \mathbb{N}

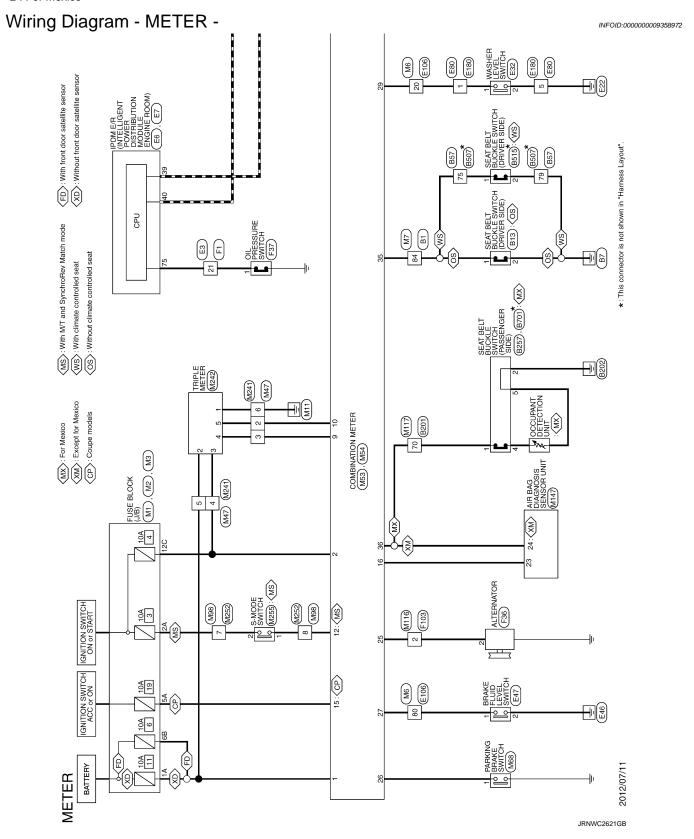
MWI

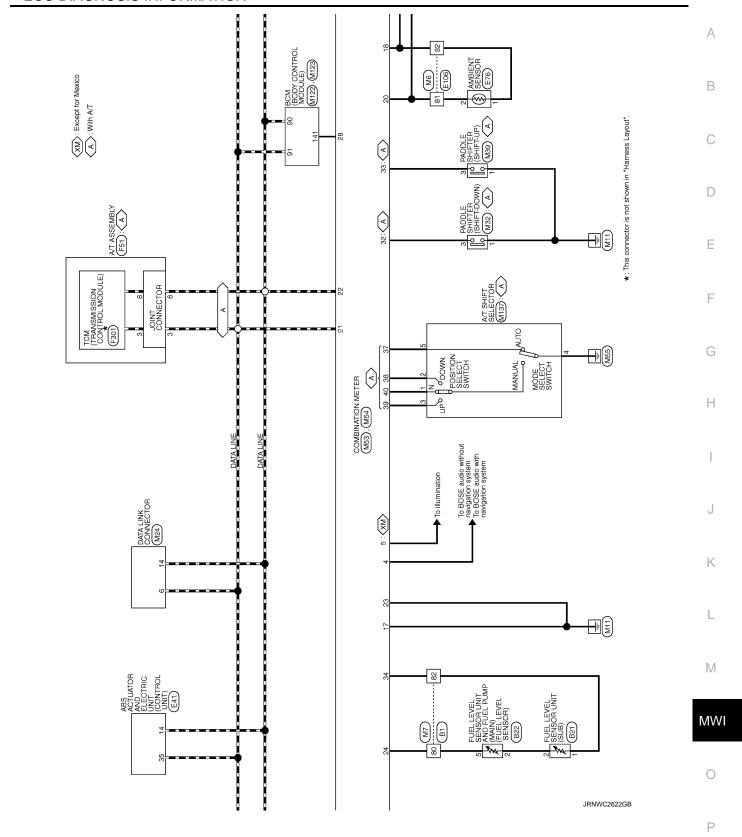
0

Ρ

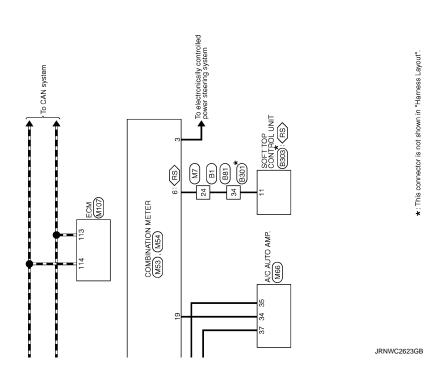
	nal No. color)	Description			Condition	Value				
+	_	Signal name	Input/ Output		Condition	(Approx.)				
25				Ignition	Charge warning lamp ON	2 V				
(W)	Ground	Alternator signal	Input	switch ON	Charge warning lamp OFF	12 V				
26	Ground	Parking brake switch signal	Input	Engine	Parking brake is applied	0 V				
(O)	Ground	T arking brake switch signal	при	idling	Parking brake is released	12 V				
27		Brake fluid level switch sig-		Ignition	Brake fluid level is normal	12 V				
(LG)	Ground	nal	Input	switch ON	Brake fluid level is less than LOW level	0 V				
28	0	On assert a single	la a cot	Ignition	Security warning lamp ON	0 V				
(Y)	Ground	Security signal	Input	switch ON	Security warning lamp OFF	12 V				
29				Ignition	Washer level switch ON	0 V				
(GR)	Ground	Washer level switch signal	Input	switch ON	Washer level switch OFF	5 V				
32	Ground	Paddle shifter down signal	Input	Ignition switch	Paddle shifter down operation	0 V				
(G)		Ç .	·	ON	Other than the above	5 V				
33				Ignition	Paddle shifter up operation	0 V				
(O)	Ground	Paddle shifter up signal	Input	switch ON	Other than the above	5 V				
34 (BR)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 E 1/4 1/2 3/4 F JPNIA0740ZZ				
35 Groun		Seat belt buckle switch sig-	Input	Ignition switch	When driver seat belt is fastened.	12 V				
(L)	O.Gana	nal (driver side)		ON	When driver seat belt is unfastened.	0 V				
36 (P) ^{*1}	Ground	Passenger seat belt warn-	Input	Ignition switch	When getting in the passenger seat.When passenger seat belt is fastened.	12 V				
(L)*2	Giodila	ing signal	при	ON	When getting in the passenger seat.When passenger seat belt is unfastened.	0 V				
37	_			Ignition	Manual mode	12 V				
(G)	Ground	Non-manual mode signal	Input	switch ON	Other than the above	0 V				
38 (V)	Ground	Manual mode shift down	Input	Ignition switch	Selector lever down operation	0 V				
(v)		signal		ON	Other then the above	12 V				
39		Manual mode shift up sig-		Ignition	Selector lever up operation	0 V				
(L)	Ground	nal	Input	switch ON	Other then the above	12 V				
40	0	Manualantini	Le contra	Ignition	Manual mode	0 V				
(W)	Ground	Manual mode signal	Input	switch ON	Other than the above	12 V				

- *1 : Except for Mexico
- *2 : For Mexico









Α

В

С

D

Е

F

G

Н

Κ

2 W	H.S.	
	No. of Wive Signal Name (Specification)	Terminal Color Signal Name (Specification) No. of Wire Signal Name (Specification)
- [Coups models] - [Roader models]		
BG SHIELD SB SB SB SB SHIELD NW W W SHIELD SHIELD SB SHIELD	> H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H H	
46 46 47 47 48 48 52 52 57 57 60 60	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
BI WIPE TO WIPE THEBEPA-CSIG-TWA	County C	
No. Name Type	0 m m m m m m m m m m m m m m m m m m m	- 1 B B B B B B
Comnec	No. 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

MWI

M

0

JRNWC4475GB

Ρ

MEIER										
Connector No.	881	80	ΓG	1	92	SB	- [Coupe models]	Connector No.	· No.	B303
Connector Name	WIRE TO WIRE	o =	> a	1 1	8 8	S >	- [Roadster models]	Connector Name	· Name	SOFT TOP CONTROL UNIT
Connector Type	TH40FW-NH	20	. 0	1	83	W	- [Roadster models]	Connector Type		TH40FB-NH
4		21	œ	1	94	SHIELD	- [Coupe models]	þ		
F		30	В	-	94	5	- [Roadster models]	F		
ď	20 19 18 17 18 15 14 13 12 11 10 9 8 7 8 5 4 3 2 1	40	>	T.	92	B	- [Coupe models]	N.	20 18	18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
_	30 29 28 27 26 25	4	> (-	95	5 E	- [Roadster models]		40 38	138 37 35 35 34 33 32 31 30 29 28 27 25 25 24 23 22 21
		\$ 5	<i>9</i> -		6 6	2 >	- [Coupe models]			
		43	J 87		ß 8	- 3	- [Roadster models] - [Goine models]			
		219	+		8 8	. A/A	- [Roadster models]			
100	L	52	-	1	66	5		Terminal	Color	3
No. of Wire	ire Signal Name [Specification]	53	SHIELD	Q	100	BR	- [Coupe models]	No.	of Wire	Signal Name [Specification]
4 W	-	54	BR	-	100	^	- [Roadster models]	-	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
5 BR		22	\	-				3	DG	ROOF STRIKER SENSOR RH
9 9	-	26	SHIELD	O				4	Μ	ROOF STRIKER SENSOR LH
8	-	21	ŋ	- [Coupe models]	Connector No.	tor No.	B301	89	٨	REVERSE SIGNAL
9 BG	-	57	۵	- [Roadster models]	2	Connector Name	WIRE TO WIRE	6	SB	POWER CONDITION (POWER WINDOW)
\dashv	1	28	œ	- [Coupe models]				10	۰	TRUNK LID OPEN SIGNAL
_	-	28	-	- [Roadster models]	Connec	Connector Type	TH40MW-NH	Ξ	0	ROOF STATUS SIGNAL (INDICATOR)
+	1	29	В	1	ą			12	SB	ROOF STATUS SIGNAL (AUDIO)
\dashv	1	9	≥	1	B			14	٦	ROOF OPEN / CLOSE SWITCH (CLOSE)
24 LG		19	GR.	1	+	V E	3 4 5 6 7 8 9 10 11 12 13 14 16 16 17 18 19 20 23 24 25 26 27 28 29 30 31 32 33 34 35 38 37 38 39 40	15	ΓC	ROOF OPEN / CLOSE SWITCH (OPEN)
25 V	_	62	8	_	1	2		16	>	TRUNK ROOM LAMP SWITCH
\dashv	1	63	≻	1				17	BG	CAN-H
\dashv	-	64	>	1				18	۵	CAN-L
34 BG	-	65	SB	1				19	ΓC	LOCAL COMMUNICATION (POWER WINDOW)
\dashv	-	99	BG	1				20	>	LOCAL COMMUNICATION (BCM)
		67	>	1	Terminal		Signal Name [Specification]	21	BR	SENSOR POWER SUPPLY (ROOF STRIKERSENSOR RH)
		89	۵	1	Š	of Wire	,	29	DG	GROUND
Connector No.	B201	69	4	I	4	PI	1	32	۵	ROOF OPEN / CLOSE SWITCH (GND)
Connector Name	WIRE TO WIRE	0, 6	σ α	1 1	e e	_ a	1 1			
Connector Type	TH80FW-CS16-TM4	73	, -	- [Coupe models]		. 0				
	1	73	œ	- [Roadster models]	6	>-	ı			
		74	Ь	- [Coupe models]	14	BR	1			
Ę	10 00 00 00 00 00 00 00 00 00 00 00 00 0	74	В	- [Roadster models]	15	BR	-			
15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75		- [Coupe models]	16	Α	-			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72	ω	- [Roadster models]	1	9g	1			
		76	8	1	24	>	1			
		8	> {		55	9 1	1			
-		<u></u>	3		5 3	gg -	1			
Terminal Color	or Signal Name [Specification]	82	9 0	1 1	32	1 0	1 1			
+		8 8	* >	1	8	8	1			
H	- [Roadster models]	85	80	1						
┝		98	SHIELD	- 0						
3 B		87	0	-						
4 G		88	BR	1						
+		68	1	1						
7	- [Roadster models]	06	SHIELD							

JRNWC4476GB

[REGULAR GRADE]

Α

В

С

D

Е

F

G

Н

Κ

MWI

M

0

JRNWC4477GB

Ρ

ŀ	99 LG	┨		- 1	Connector Name WIRE TO WIRE	Connector Type RS08FB-PR			4321						Terminal Color Signal Nama [Sanaification]		FG	2 R -	4 BG –	- B	9	8 B																											
	Signal Name [Specification]	1	-	1	1 1	1		1		1		ı	1	1	- [Coupe models]	- [Roadster models]		-	1	1	1	1	-	1	-	-	- [Except for roadster models with M/T]	 [Roadster models with M/T] 	1	1	1	1	1	1	1 1		1	1	1	1	1	1	1	ı	1	1	1		
	Terminal Color	\top	3 1	4 ⁻	0 0	+	+	╀	╀	14 GR	┞	W 16	17 SB	20 LG	21 BR	21 G	31 L	32 Y	36 V	37 Y	38 R	39 B	40 W	41 LG	42 SB	43 G	\dashv	\dashv	+	+	7	28 SHIELD	+	+	80 M	╀	H	84 L	85 BG	╁	H	╀	╀	H	93 G	94 Y		97 BR	
	Τ	ir Name AMBIENT SENSOR	rr Type RS02FB				((2 1))				Color	of Wire	- 5				rr No. E80	MIDE TO MIDE		rr Type RS08MB-PR		į		(+ 6 7 1	8 / 9			- 1	Color Signal Name [Specification]					- I				r No. E106	l	r Name WIRE TO WIRE	r Type TH80FW-CS16-TM4	1		8	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 8	1		
	Ī	NIT) Connector Name	Connector Type	1	<u></u>	4321 H.S.					Terminal	. No.		2			Connector No.	Nome Name	noninecro	Connector Type				6.6				[Terminal	No.		2	4	0	20 C	, 		Connector No.		Connector Name	Connector Type		4						
	E41	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	BAA42FB-AHZ4-LH			8 + 18 18 18 18 18 18 18 1					L	Signal Name [Specification]	GROUND	UBMR	UBVR	GROUND	DS FL	DP RL	DP RR	DP FR	DS FR	CAN-L	BUS-L	DP FL	DS RL	NZ	DS RR	BLS	VDC OFF SW	CAN-H	BUS-H		!	E4/	BRAKE FLUID LEVEL SWITCH	YV02FGY		<			((2)))			Contraction of the second seco		1	-	
METER	Connector No.	Connector Name	Connector Type	Œ.	Ţ	S. S.					Terminal Color	No. of Wire	- B	2 G	3 R	4 B	5 Y	9 BG	7 BR	8 6	H	14 P	25 Y	26 LG	Н	28 G	29 P	4	+	+	45 B			Connector No.	Connector Name	Connector Type YV02FGY		Œ		Ż					Terminal Color	No. of Wire	1 W	2 B	

JRNWC4478GB

[REGULAR GRADE]

Α

В

D

Е

F

G

Н

Κ

31 0	Terminal Color Signal Name Specification	
Connector No. FSI Connector Name A.T. ASSEMBLY Connector Type RR(10FG-DOV H.S. (5 4 3 2 1) H.S. (6 9 8 7 6)	Terminal Color Signal Name Specification	
42 GR	Connector Name ALTERNATOR Connector Name HSSIGFE Terminal Color Signal Name [Specification] To of Wire Signal Name [Specification] Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Connector Name Oil, PRESSURE SWITCH Con	
METER Connector No. F1	Terminal Color Nive Signal Name [Specification] 1	

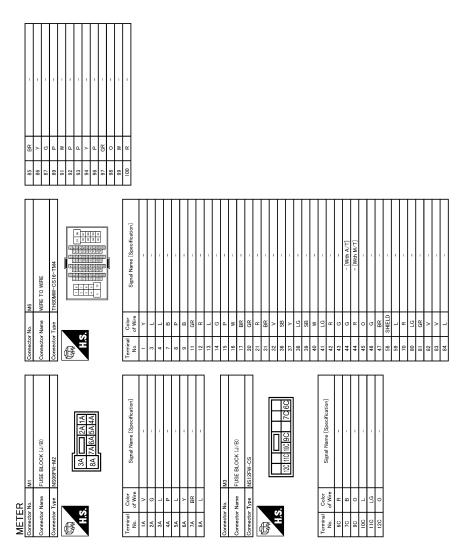
MWI

M

0

JRNWC4479GB

Ρ



JRNWC4480GB

Α

В

С

D

Е

F

G

Н

Κ

Control Use Not Cont	METER	ER						
Market 501 worker 1	Connect	or No.	M7	46	g		-	- 1
Transfer 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 1914 191	Connect	or Name		47	R H			
1 2 2 2 2 2 2 2 2 2	Connect	or Type	T	51	>			
Control Cont	4		l	52	~	-	4	4
Control Cont	厚	_	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	22	SHE			
Control Cont	Ę	Ø		28	m .		/ 111 14	S. C.
Color Colo		3		9	10		34567	
Control Cont				69	Į.			
Chief Sepat Views (Societication) Sepat Views (Societication) Chief Sepat Views (Societication)				63	ď			
1				64	5	1		
Fig. Control Fig. Fig. Control Fig. Fi	Termina			65	SHE		Color	Color
Control Cont	No.			99	2		of Wire	of Wire
1	-	BR	-	67	>			
1	2	0		89	SHIE		λ.	Н
V V V V V V V V V V	က	PC	1	69	-		-	
1	4	٥	1	70	۵		1	
1	9	>		F	>		7	Connector No. M47
1	_	9 P		72	١		> 1	
1	ω .	88		73	# 1		o :	F
V V V V V V V V V V	s ;	¥ >		75	5 0		× 9	Connector Type THIZFW-NH
1	= \$	- :		6)		57 6	1
1	13	- 8		8 2	- 3		L >	_ _
Convector Name	4	>		83	186		-	6 5 4
V V V V V V V V V V	15	В	1	83	S.R.			6
Connector Name PADDLE SHITTER (StaffT-DOWN) Connector Name Connect	16	>	1	84	-			
Signature Sign	17	ď	-	82	LG			
Color Colo	18	٦	-	98	>	-	П	
Column C	20	SB		87	H		- 1	Color
V V V V V V V V V V	21	g		88	S	-		of Wire
No. Course models No.	22	g ;		88	> ⁸		_	_ ;
No. Couper models No. No. Couper models No. No.	3 2	>		94	7 -			***
P	4	¥ .		94	1			0 :
SHELD	52	- 1		92	5		To	> 0
SHELD	97	1		GS 90	≤ -		<u></u>	4
W	7 86	SHELD		90	1 2			
No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No	3 5	M	1	0.7	; >		volor	
W	33	2	1	86	- 8		of Wire	
R	33	3		86	Ϋ́		- C	
100 B	34	2		66	>		╀	
L	32		1	100			1	
WHED O W W GR W	36	-	1					
SHEED O O D W D O D W D O D D D D D D D D D	40	7	1					
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	41	æ						
SHELD SHELD	42	S.	ı					
SHELD O O	43	~	1					
SHIELD	44	~	-					
SHELD	45	0						
	46	SHELD						

MWI

M

0

JRNWC4481GB

METER	976	i	1	THE CONTRACT OF THE CONTRACT O					
Connector No.	Mod	CZ 52	*	ALIEMNAIOR SIGNAL	Connector No.	o. Mb8	Connector No.	1	MIU/
Connector Name	COMBINATION METER	26	٥	PARKING BRAKE SWITCH SIGNAL BRAKE FLIID LEVEL SWITCH SIGNAL	Connector Name	ime PARKING BRAKE SWITCH	Connector Name		ECM
Connector Type	TH24FW-NH	28	} >	SECURITY SIGNAL	Connector Type	pe P01FB-A	Connector Type		RH24FGY-RZ8-R-LH-Z
4		29	g	WASHER LEVEL SWITCH SIGNAL	4		4		
厚		32	9	PADDLE SHIFTER DOWN SIGNAL	厚		厚		
HS.	4	8 83	0 8	FUEL LEVEL SENSOR SIGNAL	HS.	Ī	H.S.		128 124 112108104100
	15 16 17 18 19 20 21 22 23 24	32		SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)		3			114110
		36	۵	PASSENGER SEAT BELT WARNING SIGNAL [Except for Mexico]					125 121 11/11/11/11/10/10/10/10/10/10/10/10/10/1
		37	0 ا	PASSENGER SEAT BELT WARNING SIGNAL [For Mexico] NON-MANUAL MODE SIGNAL					
Terminal Color No. of Wire	Signal Name [Specification]	38	> _	MANUAL MODE SHIFT DOWN SIGNAL MANUAL MODE SHIFT UP SIGNAL	Terminal (Color Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
>	BATTERY POWER SUPPLY	40	*	MANUAL MODE SIGNAL	t	- 0	97	α	ACCELERATOR PEDAL POSITION SENSOR 1
2 0	IGNITION SIGNAL						86	Ь	ACCELERATOR PEDAL POSITION SENSOR 2
3 L	VEHICLE SPEED SIGNAL (2-PULSE)						66	٦	SENSOR POWER SUPPLY
4 Y	VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico]	Connector No.	No.	M66	Connector No.	o. M98	100	W	SENSOR GROUND
>	VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]	Connector Name	Name	A/C AUTO AMP	Connector Name	me WIRE TO WIRE	101	SB	ASCD STEERING SWITCH
+	ILLUMINATION CONTROL SIGNAL					Т	102	g,	EVAP CONTROL SYSTEM PRESSURE SENSOR
2 0	ROOF STALUS SIGNAL	Connector Type	lype	SAB4UFW	Connector Type	pe I HUSHW-NH	103	. J	SENSOR POWER SUPPLY
» d	┰	Œ			1		105	¥ -	DEEDIGEDANT DRESSING SENSOR
+	COMMUNICATION SIGNAL (TRIPLE METER-)	季			新	-{	8 8	× ا	FIJEL TANK TEMPERATURE SENSOR
	AT SNOW	H.S.		1 2 6 7 10 11 15 16 17 19 20 24 29 27 32 34 35 37 39 40	H.S.	4 3 2 1	107	HB.	SENSOR POWER SUPPLY
12 G	S-MODE SWITCH SIGNAL					8 7 6 5	108	>	SENSOR GROUND
15 L	ACC POWER SUPPLY						109	G	PNP SIGNAL
16 R	AIR BAG SIGNAL						110	œ	ENGINE SPEED OUTPUT SIGNAL
17 B	GROUND						112	SB	SENSOR GROUND
+	AMBIENT SENSOR SIGNAL	Terminal	Color	Signal Name [Specification]	la la	Color Signal Name [Specification]	113	۵	CAN COMMUNICATION LINE
91 G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL	ġ.	ot Wire	1 1000	No.	of Wire	114	٦,	CAN COMMUNICATION LINE
+	1	- 0	ه اد	H-WSO	- 0	0 0			EVAD CANISTED VENT CONTROL VALVE
22 P	CAN	9	-	TX (AMP>CONT)	3		122	3 a	STOP LAMP SWITCH
23 B	GROUND	7	۵	RX (CONT>AMP)	4	- a	123	8	ECM GROUND
24 Y	FUEL LEVEL SENSOR GROUND	10	BB	LAN SIGNAL	2	В -	124	В	ECM GROUND
		1	>	EACH DOOR MOTOR POWER SUPPLY	9	١ -	125	۲	POWER SUPPLY FOR ECM
		15	0	SUNLOAD SENSOR SIGNAL	7		126	BR	ASCD BRAKE SWITCH
Connector No.	M54	16	œ	INTAKE SENSOR SIGNAL	89	G -	127	В	ECM GROUND
Connector Name	COMBINATION METER	71	ا ـ	ACC POWER SUPPLY			128		ECM GROUND
Connector Line	1 2 2 CO	6	2	GROUND CHOINED STIDE S					
oursecon type	EN ALOUE	24	c	FCV SIGNAL					
4		26	2	REAR WINDOW DEFOGGER FEEDBACK SIGNAL					
=	[[27	-	REAR WINDOW DEFOGGER ON SIGNAL					
Š	25 26 27 28 29 32	32	Д	BLOWER MOTOR CONTROL SIGNAL					
	33 34 35 36 37 38 39 40	34	g	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL					
		35	>	AMBIENT SENSOR SIGNAL					
		36	5 G	IN-VEHICLE SENSOR SIGNAL					
		ે જ	5 0	SENSON GROUND					
No. of Wire	Signal Name [Specification]	98	o ≻	BATTERY POWER SUPPLY					
			1						

JRNWC4482GB

Α

В

D

Е

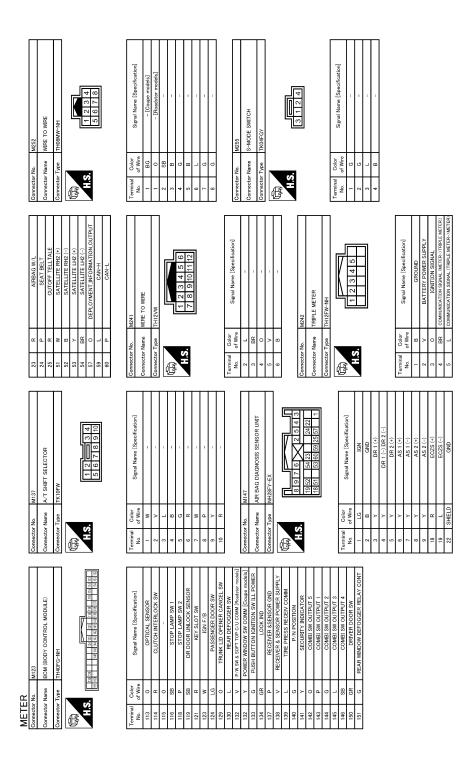
F

METER										
Connector No.	M116	Ľ.	3 0	- [Coupe models]	68	۵	- [Coupe models]	95	0	ACC RELAY CONT
Connector Name	WIRE TO WIRE	3	B B	- [Roadster models]	88	>	- [Roadster models]	96	>	A/T SHIFT SELECTOR POWER SUPPLY
		4	۸ ۸		90	SHIELD		66	œ	SHIFT P/CLUTCH PEDAL POS SW
Connector Type	e TK36MW-NS10	7	7 LG		92	9	- [Coupe models]	100	GR	PASSENGER DOOR REQUEST SW
4		_	7	- [Roadster models]	92	ار و	- [Roadster models]	101	>	DRIVER DOOR REQUEST SW
厚		æ	8 LG	1	93	œ	- [Coupe models]	102	0	BLOWER FAN MOTOR RELAY CONT
Ę		ග	\dashv	1	93	>	- [Roadster models]	103	PP	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
	6 7 8 9 10 212222242232222222222222222222222222222	=	+		94	SHELD	- [Coupe models]	101	2	COMBI SW INPUT 1
		20	+	1	8	g	- [Roadster models]	80	~	COMBI SW INPUT 4
		21	+	1	92	SB	- [Coupe models]	109	>	COMBI SW INPUT 2
		ē	30 B	_	92	ΓC	- [Roadster models]	110	Д	HAZARD SW
		40	0 0	_	97	PT	- [Coupe models]			
Terminal Co		4	١ ٢	-	97	٨	- [Roadster models]			
_	of Wire Signal Name [Specification]	42	2 G	1	86	>	- [Coupe models]			
2 V		43	3 L	-	86	A/B	- [Roadster models]			
3 B	BG - [Coupe models]	44	4 SB	8	66	9	-			
3		51	1 R	-	100	BR	- [Coupe models]			
۷	- M	52	2 G	ı	100	>	- [Roadster models]			
2		53	3 SHIELD	07.				ı		
8		54	4 LG	1						
┞	-	55	H	1	Connec	Connector No.	M122			
H	1	26	6 SHIELD	- 01	.					
╀		57	T	- [Coupe models]	Connec	Connector Name	BCM (BODY CONTROL MODULE)			
╀	5	57	┞	1	Connec	Connector Type	TH40FB-NH			
L		82	H][-		
+	1	8 22	╁		<u>(</u>	•				
╀	1	8 8			美	ř	77 CT NT 37 37 37 37 47 07 07 00 00 00 00 00 00 00 00 00 00 00			
+		8 8	+		7	Ξ Š				
┞	- 5	19	Ĺ	- ~						
H		62	-	1						
L	1	63	L	1	_					
44		64	4	-						
H	BR -	65	5 G	-	Terminal	⊢	Complete Strange Complete Comp			
۷	/	99	0 9	-	Ň	of Wire	ogran reame Especification			
		67	7 \	-	72	٦	ROOM ANT 2-			
		89	8	_	73	۵	ROOM ANT 2+			
Connector No.	M117	69	6	1	74	8S	PASSENGER DOOR ANT-			
Connector Name	WIRF TO WIRF	2	4		75	BR	PASSENGER DOOR ANT+			
		7.	72 B	1	9/	>	DRIVER DOOR ANT-			
Connector Type	e TH80MW-CS16-TM4	73	3 B	1	77	P.	DRIVER DOOR ANT+			
4		74	4 B	1	78	_	ROOM ANT 1-			
B	9	75	9 2	1	79	ď	ROOM ANT 1+			
Ę	£	76	6 B	-	80	GR	NATS ANT AMP.			
2	8 S	80	7 O	-	81	M	NATS ANT AMP.			
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	81	1 γ	-	82	В	IGN RELAY (F/B) CONT			
		82	2 W	-	83	GR	KYLS ENT RECEIVER (FRONT) COMM			
		83	3 B	1	87	BR	COMBI SW INPUT 5			
		84	4 R	1	88	>	COMBI SW INPUT 3			
		85	2	1	8	۵	CAN-L			
No. of V	of Wire Signal Name (Specification)	98	6 SHIELD	- 01	91	-	CAN-H	_		
2 6	GR - [Coupe models]	87	7 G	1	92	P	KEY SLOT ILL	_		
	- [Boadete	â	88	1	8	┞	ONI NO			

MWI

M

JRNWC4483GB



JRNWC4484GB

Fail-Safe

INFOID:0000000009358973

FAIL-SAFE

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

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

	Function	Specifications			
Speedometer Tachometer Engine coolant temperature gauge Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Door open warning Parking brake release warning Fuel filler cap warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Buzzer ABS warning lamp VDC warning lamp Brake warning lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Rear fog lamp indicator lamp CRUISE indicator lamp Key warning lamp Key warning lamp VDC OFF indicator lamp Key warning lamp VDC OFF indicator lamp	Decet to make by averageding communication				
Speedometer Tachometer Engine coolant temperature gauge Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Manual mode indicator Information display Information display Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Buzzer ABS warning lamp VDC warning lamp Brake warning lamp Malfunction indicator lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Rear fog lamp indicator lamp Oil pressure warning lamp CRUISE indicator lamp Key warning lamp CRUISE indicator lamp Key warning lamp	Reset to zero by suspending communication.				
Tachometer Engine coolant temperature gauge Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Door open warning	The segment turns OFF by suspending communication.				
Fuel gauge		Indicates fuel level.			
Illumination control		When suspending communication, changes to nighttime mode.			
Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Door open warning Parking brake release warning Fuel filler cap warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Buzzer ABS warning lamp VDC warning lamp Brake warning lamp Malfunction indicator lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Rear fog lamp indicator lamp Oil pressure warning lamp Oil pressure warning lamp CRUISE indicator lamp					
S-MODE indicator		Indicates fuel level. When suspending communication, changes to nighttime mode. The segment turns OFF by suspending communication. The display turns OFF by suspending communication. In display turns OFF by suspending communication. In display turns OFF by suspending communication. In display turns OFF by suspending communication. When reception time of an abnormal signal is 2 seconds or less, the last received datum is used for calculation to indicate the result. When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated. The buzzer turns OFF by suspending communication. Swarning lamp Cwarning lamp If the lamp turns ON by suspending communication. The lamp turns ON after flashing for 1 minute. The lamp turns OFF by suspending communication. The lamp turns OFF by suspending communication. The lamp turns OFF by suspending communication. The lamp turns OFF by suspending communication.			
Tachometer Engine coolant temperature gauge Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Door open warning Parking brake release warning Fuel filler cap warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Buzzer ABS warning lamp VDC warning lamp Brake warning lamp Warning lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Cil pressure warning lamp Oil pressure warning lamp CRUISE indicator lamp Key warning lamp Key warning lamp					
Tachometer Engine coolant temperature gauge Fuel gauge Illumination control Shift position indicator S-MODE indicator Manual mode indicator Peul filler cap warning Information display Information display Information display Average vehicle speed Travel distance Buzzer ABS warning lamp Wo warning lamp Malfunction indicator lamp Low tire pressure warning lamp Warning lamp/indicator lamp Rear fog lamp indicator lamp CRUISE indicator lamp Rear turns OFF by suspending communication. The segment turns OFF by suspending communication. The display turns OFF by suspending communication. When reception time of an abnormal signal is 2 seconds or less, the last received datum is used for calculation to indicate the result. When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated. The buzzer turns OFF by suspending communication. The lamp turns ON by suspending communication. The lamp turns ON after flashing for 1 minute. The lamp turns OFF by suspending communication. The lamp turns ON after flashing for 1 minute. The lamp turns OFF by suspending communication. The lamp turns ON spending communication.					
	Parking brake release warning	The display turns OFF by suspending communication.			
	Fuel filler cap warning				
	Instantaneous fuel warning	,			
	Average fuel consumption	·			
	Average vehicle speed	When reception time of an abnormal signal is more than two			
	Travel distance				
Buzzer		The buzzer turns OFF by suspending communication.			
	ABS warning lamp				
Shift position indicator S-MODE indicator Manual mode indicator Door open warning Parking brake release warning Fuel filler cap warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Buzzer ABS warning lamp VDC warning lamp Brake warning lamp Malfunction indicator lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Rear fog lamp indicator lamp CRUISE indicator lamp Key warning lamp Key warning lamp	The lamp turns ON by suspending communication				
			— The lamp turns ON by suspending communication.		
	Malfunction indicator lamp				
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minute.			
	High beam indicator lamp				
	Turn signal indicator lamp				
	Light indicator lamp				
	Rear fog lamp indicator lamp	The lamp turns OFF by supposding communication			
	Oil pressure warning lamp	The lamp turns OFF by suspending communication.			
	CRUISE indicator lamp				
	Key warning lamp				
	VDC OFF indicator lamp				

DTC Index

Display contents of CONSULT	Diagnostic item is detected when	Refer to
[U1000] for 2 seconds or more. CONTROL UNIT (CAN) [U1010] When detecting error during the initial diagnosis of the tion meter. COMM ERROR 1 [B2201] If a communication error is present in the communication meter and triple meter for 2 seconds or more.	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-38, "Diagnosis Procedure"
	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-39. "Diagnosis Procedure"
[U1000] for 2 seconds or more. CONTROL UNIT (CAN) When detecting error during the initial diagnosis of the CAN controller of contion meter. COMM ERROR 1 If a communication error is present in the communication line between combination meter and triple meter for 2 seconds or more. VEHICLE SPEED The abnormal vehicle speed signal is input from the ABS actuator and elections.	If a communication error is present in the communication line between combination meter and triple meter for 2 seconds or more.	MWI-40, "Diagnosis Procedure"
	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-42, "Diagnosis Procedure"

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Display contents of CONSULT	Diagnostic item is detected when	Refer to
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-43, "Diagnosis Procedure"
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-44, "Diagnosis Procedure"

NOTE:

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The malfunctions was detected in the past. IGN counter is displayed on FFD (Freeze Frame data).
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like $0 \to 1 \to 2 \cdots 38 \to 39$ after returning to the normal condition whenever IGN OFF \to ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Α

В

D

Е

F

Н

J

K

L

M

MWI

0

Р

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

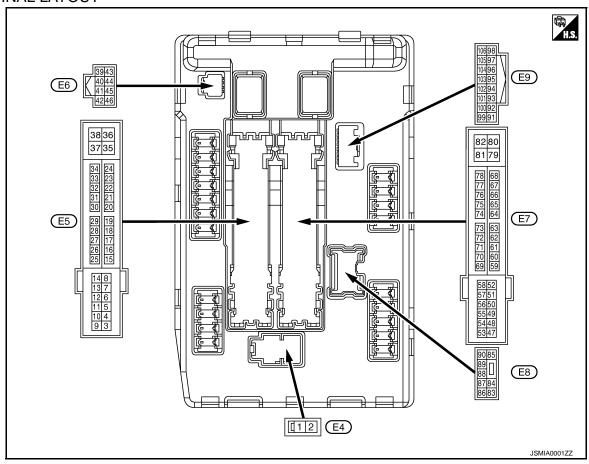
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item		Condition	Value/Status
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL & CL D DEO	Lighting switch OFF	Engine idle speed ant temperature, air conditioner operation status, vehicle speed, etc. A/C switch OFF Engine running A/C switch ON (Compressor is operating)	Off
AILACLK REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
	Lighting switch OFF		Off
IL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	0.5
RAD FAN REQ AC COMP REQ TAIL&CLR REQ HL HI REQ FR FOG REQ FR WIP REQ WIP AUTO STOP WIP PROT IGN RLY1 -REQ IGN RLY PUSH SW	Daytime running light system is	operated (With daytime running light system)	On
II ULBEO	Lighting switch OFF		Off
IL NI KEQ	Lighting switch HI		On
D FOC DEO	Daytime running light system is	not operated	Off
R FOG REQ	Daytime running light system is	operated	On
		Front wiper switch OFF	Stop
RAD FAN REQ AC COMP REQ TAIL&CLR REQ HL HI REQ FR FOG REQ FR WIP REQ WIP AUTO STOP WIP PROT IGN RLY1 -REQ IGN RLY PUSH SW	Ignition quitab ON	Front wiper switch INT	1LOW
	ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
WIP AUTO STOP		Front wiper stop position	STOP P
VIP AUTO STOP	Lighting switch OFF Lighting switch HI Daytime running light system is not Daytime running light system is of Daytime run		ACT P
TAIL&CLR REQ Lighting switch OFF Lighting switch 1ST, 2ND, HI or AI Lighting switch OFF Lighting switch 2ND HI or AUTO (Daytime running light system is or Lighting switch OFF Lighting switch OFF Lighting switch OFF Lighting switch HI Daytime running light system is not Daytime running light system is or Daytime running light system is or Ignition switch ON WIP AUTO STOP Ignition switch ON Ignition switch OFF or ACC Ignition switch OFF or ACC Ignition switch OFF or ACC Ignition switch ON Release the push-button ignition switch ON INTER/NP SW		Front wiper operates normally	Off
		BLOCK	
CNIDIVA DEO	Ignition switch OFF or ACC		Off
JN KLY I -KEQ	Ignition switch ON		On
ON DLV	Ignition switch OFF or ACC		Off
JIN KLI	Ignition switch ON		On
	Release the push-button ignition	switch	Off
WIP PROT IGN RLY1 -REQ IGN RLY	Press the push-button ignition s	witch	On
IGN RLY1 -REQ IGN RLY PUSH SW	Ignition switch ON	than P or N (A/T models)	Off
NTER/NP SW		,	
FR FOG REQ FR WIP REQ WIP AUTO STOP WIP PROT IGN RLY1 -REQ IGN RLY PUSH SW	Ignition switch ON		On
		Depress clutch pedal (M/T models)	

Monitor Item	Con	ndition	Value/Status
OT DLV CONT	Ignition switch ON		Off
STRLY CONT	At engine cranking		On
IUDT DLV DEO	Ignition switch ON		Off
IHBI KLY -KEQ	At engine cranking		On
	Ignition switch ON		Off
	At engine cranking		INHI ON \rightarrow ST ON
ST RLY CONT IHBT RLY -REQ ST/INHI RLY DETENT SW S/L RLY -REQ S/L STATE DTRL REQ OIL P SW HOOD SW HL WASHER REQ THFT HRN REQ HORN CHIRP CRNRNG LMP REQ		ontrol relay cannot be recognized by the n the starter relay is ON and the starter	UNKWN
DETENT SW	Ignition switch ON	 Press the selector button with selector lever in P position Selector lever in any position other than P 	Off
	Release the selector button with sele NOTE: Fixed On for M/T models	ctor lever in P position	On
S/L RLY -REQ	NOTE: The item is indicated, but not monitor	ed.	Off
S/L STATE	NOTE: The item is indicated, but not monitor	ed.	UNLOCK
DTRL REQ	NOTE: The item is indicated, but not monitor	ed.	Off
OIL D OW	Ignition switch OFF, ACC or engine re	unning	Open
OIL P SW	Ignition switch ON		Close
HOOD SW	Close the hood		Off
HOOD SW	Open the hood		On
HL WASHER REQ	NOTE: The item is indicated, but not monitor	ed.	Off
	Not operation		Off
The status of si battery voltage control relay is Ignition switch	Panic alarm is activatedHorn is activated with VEHICLE SE	CURITY (THEFT WARNING) SYSTEM	On
HODN CHIED	NOTE: Fixed On for M/T models NOTE: The item is indicated, but not mone in indicated, but not mone indicated, but not mone in indicated, but not mone indicated, but not mone in indicated, but not mone in indicated,		Off
HOKIN CHIKP	Door locking with Intelligent Key (hor	n chirp mode)	On
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitor	ed.	Off

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

		Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch O	FF	Battery voltage
+	Ground	Battery power supply	Input	Ignition switch O	FF	Battery voltage
	Cround	Front winer I O	Output	Ignition switch	Front wiper switch OFF	0 V
	Ground	Front wiper LO	Output	ON	Front wiper switch LO	Battery voltage
5	Craund	Front winer III	Outsut	Ignition switch	Front wiper switch OFF	0 V
(L) 4 (V) 5 (L) 7 (R)*3 (V)*4 12 Ground	Ground	Front wiper HI	Output	ON	Front wiper switch HI	Battery voltage
-		Illuminations		Lauriai au accidente	Lighting switch OFF	0 V
1 (W) 2 (L) 4 (V) 5 (L) 7 (R)*3 (V)*4 12 (B/W)	Ground	Tail, license plate lamps & illuminations	Output	Ignition switch ON	Lighting switch 1ST	Battery voltage
	Ground	Ground	_	Ignition switch O	N	0 V
1 (W) G (W) G (L) G (L) G (V) G (V) G (V)*4 (V)*4 (B/W) G		Eugl nump newer aup		Approximately 1 ing the ignition s	second or more after turn- witch ON	0 V
	Ground	Fuel pump power sup- ply	Output	Approximately ignition switchEngine running		Battery voltage

MWI-81 Revision: 2013 May 2014 370Z

Α

В

C

D

Е

F

G

Н

J

L

K

M

MWI

0

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
16 (LG)	Ground	Front wiper auto stop	Input	Ignition switch ON	Front wiper stop position Any position other than front wiper stop position	0 V Battery voltage
19	Craund	Ignition relay power	Outrout	Ignition switch OI	FF	0 V
(W)	Ground	supply	Output	Ignition switch OI	N	Battery voltage
25	Ground	Ignition relay power	Output	Ignition switch OI	FF	0 V
(G)	Ground	supply	Output	Ignition switch OI	N	Battery voltage
27	Ground	Ignition relay monitor	Input	Ignition switch OI	FF or ACC	Battery voltage
(Y)	Ciodila	ignition relay monitor	прис	Ignition switch OI	N	0 V
25 (G) Ground 27 (Y) Ground 30 (GR) Ground 36 (G) Ground 39 (P) — 40 (L) — 41 (B/W) Ground 42 (Y) Ground 43*1 (SB) Ground 45 (G) Ground	Ground	Push-button ignition	Input	Press the push-b	utton ignition switch	0 V
(L)	Cround	switch	прис	Release the push	n-button ignition switch	Battery voltage
				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
(L) 30 (GR) 36 (G) 39 (P) 40 (L) 41 (B/W) 42 (Y) 43*1 (SB)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
(G) Gro				W/T models	Depress the clutch pedal	Battery voltage
	Ground	Battery power supply	Input	Ignition switch OI	=F	Battery voltage
	_	CAN-L	Input/ Output		_	_
	_	CAN-H	Input/ Output		_	_
	Ground	Ground	_	Ignition switch OI	N	0 V
	Ground	Cooling fan relay con-	Input	Ignition switch ON Ignition switch OFF or ACC Ignition switch ON • Press the selector	FF or ACC	0 V
(Y)	Ciodila	trol	прис	Ignition switch OI	N	0.7 V
	Ground	A/T shift selector (Detention switch)	Input	Ignition switch	Press the selector button (selector lever P) Selector lever in any position other than P	Battery voltage
					Release the selector button (selector lever P)	0 V
	Ground	Horn relay control	Input	The horn is deac	tivated	Battery voltage
(W)	Cround	rioni relay control	прис	The horn is activa	ated	0 V
	Ground	Anti theft horn relay	Input	The horn is deac	tivated	Battery voltage
(G)	Cround	control	put	The horn is activa	ated	0 V
				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
(L) 41 (B/W) 42 (Y) 43*1 (SB) 44 (W) 45 (G)				M/T models	Release the clutch pedal	0 V
				W/ I IIIOGOIS	Depress the clutch pedal	Battery voltage

EUL	J DIAGN	NOSIS INFORMATIC)IN >			[KEGGEAK GKADE]	1
Term	inal No.	Description					=
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	
			•		A/C switch OFF	0 V	_
48 (L)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage	_
49		ECM relay power sup-		Ignition switch Of (More than a few tion switch OFF)	F seconds after turning igni-	0 V	_
(BG)	Ground	ply	Output	Ignition switchIgnition switch(For a few seconswitch OFF)		Battery voltage	
51	0	Ignition relay power	0	Ignition switch Of	FF .	0 V	_
(Y)	Ground	supply	Output	Ignition switch Of	N	Battery voltage	_
53		ECM relay power sup-		Ignition switch Of (More than a few tion switch OFF)	FF seconds after turning igni-	0 V	_
(W)	Ground	ply	Output	Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage	_
E A		Throttle central meter		Ignition switch OF (More than a few tion switch OFF)	FF seconds after turning igni-	0 V	_
54 (V)	Ground	Throttle control motor relay power supply	Output	Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage	_
55 (SB)	Ground	ECM power supply	Output	Ignition switch Of	-F	Battery voltage	_
56	Ground	Ignition relay power	0	Ignition switch Of	FF	0 V	_
(LG)	Ground	supply	Output	Ignition switch Of	N	Battery voltage	_
57	Graves	Ignition relay power	Outent	Ignition switch Of	F	0 V	_
(G)	Ground	supply	Output	Ignition switch Of	N	Battery voltage	_
58 ^{*1}	Ground	Ignition relay power	Output	Ignition switch Of	FF	0 V	_
(P)	Ciouna	supply	Calput	Ignition switch Of	N	Battery voltage	_
69			_	Ignition switch OF (More than a few tion switch OFF)	FF seconds after turning igni-	Battery voltage	_
(BR)	Ground	ECM relay control	Output	Ignition switch Ignition switch (For a few second switch OFF)		0 - 1.5 V	
						0 -1.0 V	_
70 (BG)	Ground	Throttle control motor relay control	Output	Ignition switch Of	N o OFF	↓ Battery voltage ↓ 0 V	
				Ignition switch Of	N	0 - 1.0 V	_
	1			3			

	inal No.	Description				Value (Approx.)			
+ (vvire	e color)	Signal name	Input/ Output		Condition				
				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V			
72 (GR)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage			
				M/T models	Release the clutch pedal	0 V			
				W/ T MOGGIS	Depress the clutch pedal	Battery voltage			
73 ^{*2}	Ground	Ignition relay power	Output	Ignition switch O		0 V			
(GR)		supply	•	Ignition switch O		Battery voltage			
74	Ground	Ignition relay power	Output	Ignition switch O		0 V			
(G)		supply		Ignition switch O		Battery voltage			
75 (SB)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V			
(36)				ON	Engine running	Battery voltage			
				Ignition switch O	N	(V) 6 4 2 0 2 2ms JPMIA0001GB			
76 (Y)	Ground	Power generation command signal	Output	40% is set on "Al TOR DUTY" of "E	CTIVE TEST", "ALTERNA- ENGINE"	(V) 6 4 2 0 2ms JPMIA0002GB			
				80% is set on "Al TOR DUTY" of "E	CTIVE TEST", "ALTERNA- ENGINE"	(V) 6 4 2 0 2 ms JPMIA0003GE 1.4 V			
77 (R)	Ground	Fuel pump relay control	Output	ignition switch • Engine running)	0 - 1.0 V			
. ,				Approximately 1 ing the ignition s	second or more after turn- witch ON	Battery voltage			
80 (W)	Ground	Starter motor	Output	At engine crankir	gine cranking Battery voltage				
83	Ground	Headlamp LO (RH)	Output	Ignition switch	Lighting switch OFF	0 V			
(R)	Giodild	Headianip LO (KD)	Output	ON	Lighting switch 2ND	Battery voltage			
84	Ground	Headlamp LO (LH)	Output	Ignition switch	Lighting switch OFF	0 V			
(P)	Cround		Jaipai	ON	Lighting switch 2ND	Battery voltage			

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Δ.
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
86	Ground	Daytime running light	Output	Daytime running ed	light system is not operat-	0 V	В
(BG)		(RH)	-	Daytime running	light system is operated	Battery voltage	
87 (R)	Ground	Daytime running light (LH)	Output	Daytime running ed	light system is not operat-	0 V	С
(K)		(LII)		Daytime running	light system is operated	Battery voltage	
88 (G)	Ground	Washer pump power supply	Output	Ignition switch O	N	Battery voltage	D
89				Ignition switch	Lighting switch OFF	0 V	
(BR)	Ground	Headlamp HI (RH)	Output	ON	Lighting switch HI Lighting switch PASS	Battery voltage	Е
90				Ignition switch	Lighting switch OFF	0 V	
(LG)	Ground	Headlamp HI (LH)	Output	ON	Lighting switch HI Lighting switch PASS	Battery voltage	F
91	Ground	Parking lamp (RH)	Output	Ignition switch	Lighting switch OFF	0 V	
(P)	Giodila	Faiking lamp (KH)	Output	ON	Lighting switch 1ST	Battery voltage	G
92	Ground	Parking lamp (LH)	Output	Ignition switch	Lighting switch OFF	0 V	
(BG)	Glound		Output	ON	Lighting switch 1ST	Battery voltage	_ н
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 - 5 V	
104	Ground	Hood switch	Input	Close the hood		Battery voltage	
(LG)	Siound	1 1000 SWILCH	input	Open the hood		0 V	- '

^{*1:} A/T models only

MWI

M

J

K

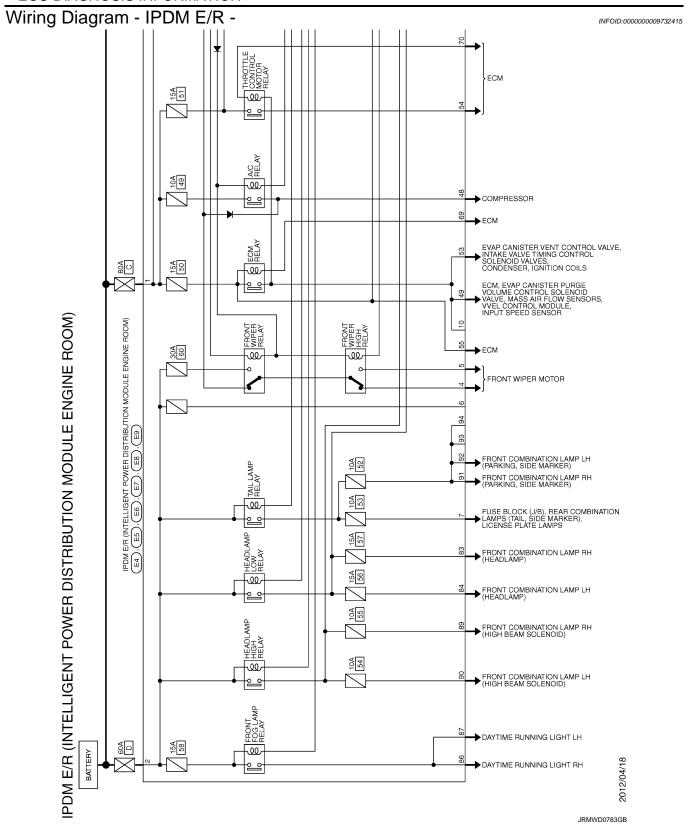
L

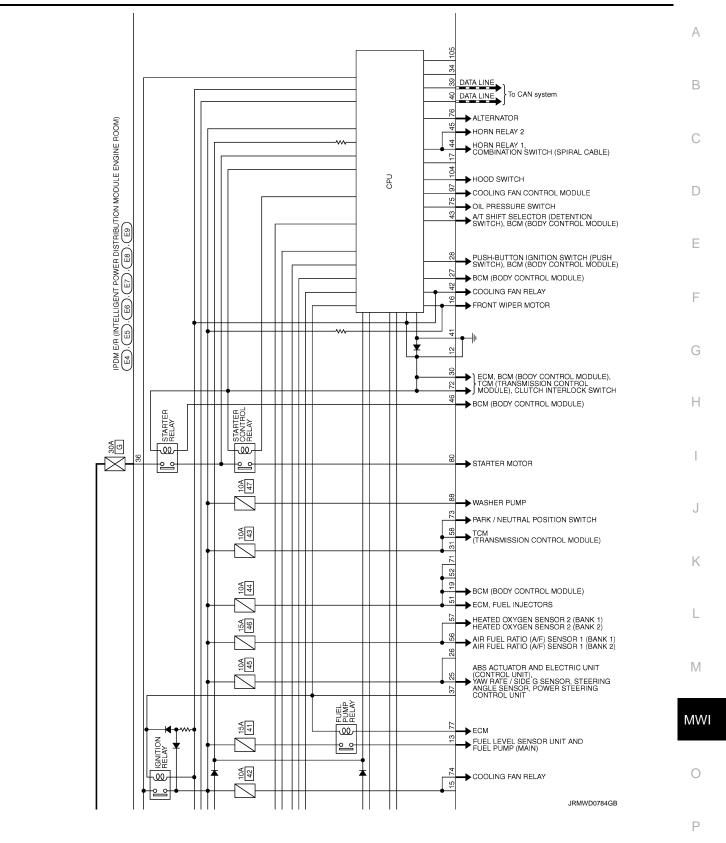
0

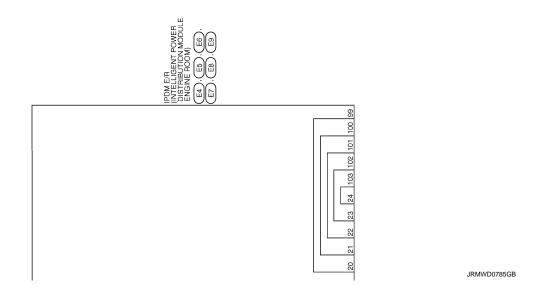
^{*2:} M/T models only

^{*3:} Coupe models

^{*4:} Roadster models







75 SB -	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ŀ	1 [Connector No. E8 Connector Name IPM R. RIVELLIGENT POWER DISTRIBUTION MODULE RIVERIE ROOM!	П	E	.S.	98 / 88 88 / 88			-	I erminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	t	H	BG	Н	\dashv	89 BR	┨	Connector No. E9	Connector Name PROME A RATELLIGENT POWER DISTRIBUTION MODULE BRIGHE ROOM)	Connector Type TH16FW-NH	ą.	WHY.	SE	97	104		ŀ	-	of Wire	+		4	104 LG -					
RIBUTION MODULE ENGINE ROOM)	9	Connector Type TH08FW-NH	1	H.S. 42 41 40 39	46 45 44 43		Terminal Color Signal Name [Specification] No. of Wire	Ħ	Н	B/W	42 Y	90 3	: o	>		Ī	Connector No. E7	Connector Name ENGINE ROOM)	T. T		1.S. [53] 54] 55] 56] 57] 58] [64] 172] 73 [74] 75] 74]				Tominal Orlan		48 L	49 BG -	Н	\dashv	54 V -	+	ΓG	+	Ф	+	BG	GR	+	/4 G
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Commercer No. Fet Co	l e	Connector Type L02FB-MC		H.S.	7		Terminal Color Signal Name [Specification]	T	2 L –		N TO THE PERSON NAMED IN COLUMN NAMED IN COLUM	Τ	Connector Name ENGINE ROOM)	Connector Type TH20FW-CS12-M4-1V		F		12 12 25 27 8 90	4	-	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	4 V –			7 V = [Roadster models]	╁	TO	19 W –	Н	27 Y -	-	4	36 G							

MWI

0

M

Α

В

D

Е

F

Н

JRMWD9626GB

Fail-safe INFOID:0000000009732416

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

MWI-89 Revision: 2013 May 2014 370Z

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe operation
Cooling fan	 Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Alternator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

Control part	Fail-safe operation
Headlamp	 Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsSide maker lampLicense plate lampsIlluminationsTail lamps	 Turns ON the tail lamp relay and the daytime running light relay*1 when the ignition switch is turned ON Turns OFF the tail lamp relay and the daytime running light relay*1 when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the AUTO mode and the front wiper motor is operating.
Horn	Horn relay OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

^{*:} With daytime running light system

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and the daytime running light relay* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Voltage	judgment							
Ignition relay contact side	Ignition relay excitation coil side	IPDM E/R judgment	Operation					
ON	ON	Ignition relay ON normal	_					
OFF	OFF	Ignition relay OFF normal	_					
ON	OFF	Ignition relay ON stuck	 Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay and the daytime running light relay* for 10 minutes 					
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF"					

^{*:} With daytime running light system

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal.

When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

< ECU DIAGNOSIS INFORMATION >

Ignition switch	Front wiper switch	Front wiper stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
ON	ON	The front wiper stop position signal does not change for 10 seconds.

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index INFOID:0000000009732417 Е

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like 1 ightarrow 2 \cdots 38 ightarrow 39 after returning to the normal condition whenever IGN OFF ightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

		×: Applicable
CONSULT display	Fail-safe	Refer to
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-15
B2098: IGN RELAY ON	×	PCS-16
B2099: IGN RELAY OFF	_	PCS-17
B210B: START CONT RLY ON	_	<u>SEC-85</u>
B210C: START CONT RLY OFF	_	<u>SEC-86</u>
B210D: STARTER RELAY ON	_	<u>SEC-87</u>
B210E: STARTER RELAY OFF	_	SEC-88
B210F: INTRLCK/PNP SW ON	_	<u>SEC-90</u>
B2110: INTRLCK/PNP SW OFF	-	<u>SEC-92</u>

MWI

Α

В

D

F

Н

Р

MWI-91 Revision: 2013 May 2014 370Z

THE FUEL GAUGE INDICATOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

SYMPTOM DIAGNOSIS

THE FUEL GAUGE INDICATOR DOES NOT OPERATE

Description

Fuel gauge will not indicate from a certain position.

Diagnosis Procedure

INFOID:0000000009675956

1. CONDUCTING THE COMBINATION METER SELF-DIAGNOSIS MODE

Perform the self-diagnosis mode of combination meter, and then check that the fuel gauge operates normally. Refer to MWI-33, "Diagnosis Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to MWI-103, "Removal and Installation".

2. CHECK FLOAT INTERFERENCE

Check that the float arm interferes with or binds to other components in the fuel tank.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3.CHECK FUEL LEVEL SENSOR SIGNAL CIRCUIT

Check the fuel level sensor signal circuit. Refer to MWI-48, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace malfunctioning parts.

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON	٨
Description INFOID:0000000000358981	А
The oil pressure warning lamp stays off when the ignition switch is turned ON.	В
Diagnosis Procedure	
1. CHECK OIL PRESSURE WARNING LAMP	С
Perform auto active test. Refer to PCS-10, "Diagnosis Description".	
Is oil pressure warning lamp blinking?	D
YES >> GO TO 2. NO >> GO TO 4.	
2. CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT	Е
Check the oil pressure switch signal circuit. Refer to MWI-51, "Diagnosis Procedure".	
Is the inspection result normal?	_
YES >> GO TO 3. NO >> Repair harness or connector.	F
3. CHECK OIL PRESSURE SWITCH	
Perform a unit check for the oil pressure switch. Refer to MWI-51, "Component Inspection".	G
Is the inspection result normal?	
YES >> Replace IPDM E/R.	Н
NO >> Replace oil pressure switch.	
4. CHECK COMBINATION METER INPUT SIGNAL	ı
Connect CONSULT and perform an input signal check for the combination meter. Refer to MWI-51, "Component Function Check".	
Is the inspection result normal?	
YES >> Replace combination meter.	J
NO >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".	
	K
	L
	\mathbb{N}

MWI

0

Ρ

THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

Description

The oil pressure warning lamp remains illuminated while the engine is running (normal oil pressure).

Diagnosis Procedure

INFOID:0000000009358984

1. CHECK OIL PRESSURE WARNING LAMP

Perform auto active test. Refer to PCS-10, "Diagnosis Description".

Is oil pressure warning lamp blinking?

YES >> GO TO 2. NO >> GO TO 5.

2.CHECK IPDM E/R OUTPUT VOLTAGE

- 1. Turn ignition switch OFF.
- 2. Disconnect the oil pressure switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between the oil pressure switch harness connector terminal and ground.

	Terminals										
(+)	(–)	Voltage								
Oil press	ure switch		(Approx.)								
Connector	Terminal	Ground									
F37	1		12 V								

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 4.

3.CHECK OIL PRESSURE SWITCH

Perform a unit check for the oil pressure switch. Refer to MWI-51, "Component Inspection".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> Replace oil pressure switch.

4. CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT

Check the oil pressure switch signal circuit. Refer to MWI-51, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair harness or connector.

5. CHECK COMBINATION METER INPUT SIGNAL

Connect CONSULT and perform an input signal check for the combination meter. Refer to MWI-51, "Component Function Check".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

THE PARKING BRAKE RELEASE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

THE PARKING BRAKE RELEASE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:0000000009358985

INFOID:0000000009358986

D

Е

F

Н

K

- The parking brake warning is displayed during vehicle travel even though the parking brake is released.
- The parking brake warning is not displayed even though driving the vehicle with the parking brake applied.

Diagnosis Procedure

1. CHECK PARKING BRAKE WARNING LAMP OPERATION

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

Condition	Warning lamp status
When parking brake is applied	ON
When parking brake is released	OFF

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

2.check parking brake switch signal circuit

- Turn ignition switch OFF.
- 2. Check the parking brake switch signal circuit. Refer to MWI-53, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NG >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH

Perform a unit check for the parking brake switch. Refer to BRC-76, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace parking brake switch.

MWI

M

THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

- The warning is still displayed even after washer fluid is added.
- The warning is not displayed even though the washer tank is empty.

Diagnosis Procedure

INFOID:0000000009358988

1. CHECK WASHER LEVEL SWITCH SIGNAL CIRCUIT

Check the washer level switch signal circuit. Refer to MWI-54, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK WASHER LEVEL SWITCH

Perform a unit check for the washer level switch. Refer to <u>MWI-54, "Component Inspection"</u>. <u>Is the inspection result normal?</u>

YES >> Replace combination meter.

NO >> Replace washer level switch. Refer to WW-45, "Removal and Installation".

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

INFOID:0000000009358990

Α

В

D

Е

F

Н

K

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description INFOID.0000000009358989

- The door ajar warning is displayed even though all of the doors are closed.
- The door ajar warning is not displayed even though a door is ajar.

Diagnosis Procedure

1. CHECK BCM INPUT/OUTPUT SIGNAL

Connect CONSULT and check the BCM input signals. Refer to <u>DLK-88</u>, "Component Function Check" (coupe) or <u>DLK-286</u>, "Component Function Check" (roadster).

Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 3.

2.CHECK COMBINATION METER INPUT SIGNAL

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

"DOOR W/L"

Door open : On Door closed : Off

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace BCM. Refer to <u>BCS-106</u>, "Removal and Installation".

3. CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to <u>DLK-88, "Diagnosis Procedure"</u> (coupe) or <u>DLK-286, "Diagnosis Procedure"</u> (roadster).

Is the inspection result normal?

YES >> GO TO 4.

NO

NO >> Repair harness or connector.

4. CHECK DOOR SWITCH

Perform a unit check for the door switch. Refer to <u>DLK-89</u>, "Component Inspection" (coupe) or <u>DLK-287</u>, "Component Inspection" (roadster).

Is the inspection result normal?

YES >> Replace combination meter.

>> Replace applicable door switch. Refer to <u>DLK-197, "Removal and Installation"</u> (coupe) or <u>DLK-399, "Removal and Installation"</u> (roadster).

MWI

0

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description

- The displayed ambient air temperature is higher than the actual temperature.
- The displayed ambient air temperature is lower than the actual temperature.

Diagnosis Procedure

INFOID:0000000009358992

NOTE:

Check that the symptom is not applicable to the normal operating condition before starting diagnosis. Refer to MWI-99, "INFORMATION DISPLAY: Description".

1. CHECK AMBIENT SENSOR SIGNAL CIRCUIT

Check the ambient sensor signal circuit. Refer to <u>HAC-30</u>, "<u>Diagnosis Procedure</u>" (without 7 inch display) or <u>HAC-121</u>, "<u>Diagnosis Procedure</u>" (with 7 inch display).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL CIRCUIT

Check the A/C auto amp. connection recognition signal circuit. Refer to <u>MWI-56, "Diagnosis Procedure"</u>. <u>Is the inspection result normal?</u>

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK AMBIENT SENSOR

Perform the part check for the ambient sensor. Refer to <u>HAC-31, "Component Inspection"</u> (without 7 inch display) or <u>HAC-122, "Component Inspection"</u> (with 7 inch display).

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace ambient sensor. Refer to <u>HAC-87</u>, "Removal and Installation" (without 7 inch display) or <u>HAC-177</u>, "Removal and Installation" (with 7 inch display).

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

NORMAL OPERATING CONDITION INFORMATION DISPLAY

INFORMATION DISPLAY: Description

INFOID:0000000009358993

AMBIENT AIR TEMPERATURE

The displayed ambient air temperature on the information display may differ from the actual temperature because it is a corrected value calculated from the ambient sensor signal by the combination meter. Refer to MWI-27, "INFORMATION DISPLAY: System Description" for details on the correction process.

POSSIBLE DRIVING DISTANCE

The calculated possible driving distance may differ from the actual distance to empty if the refueling amount is approximately 15 ℓ (4 US gal, 3-1/4 Imp gal) or less. This is because the refuel control (moves the fuel gauge needle quicker than normal judging that the driver is refueling the vehicle) is not performing.

Е

D

Α

В

F

G

Н

U

K

L

M

MWI

C

PRECAUTIONS

< PRECAUTION > [REGULAR GRADE]

PRECAUTION

PRECAUTIONS EXCEPT FOR MEXICO

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

INFOID:0000000009358995

EXCEPT FOR MEXICO: Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

FOR MEXICO

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

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

WARNING:

Always observe the following items for preventing accidental activation.

 To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.

PRECAUTIONS

[REGULAR GRADE] < PRECAUTION >

 Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".

 Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

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

FOR MEXICO: Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

MWI

Р

MWI-101 Revision: 2013 May 2014 370Z

INFOID:0000000009358997

Н

В

C

D

Е

PREPARATION

< PREPARATION > [REGULAR GRADE]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000009358998

Tool name	Description
Power tool	Loosening screws PBIC0191E

[REGULAR GRADE]

INFOID:0000000009358999

Α

В

C

D

Е

F

Н

K

M

REMOVAL AND INSTALLATION

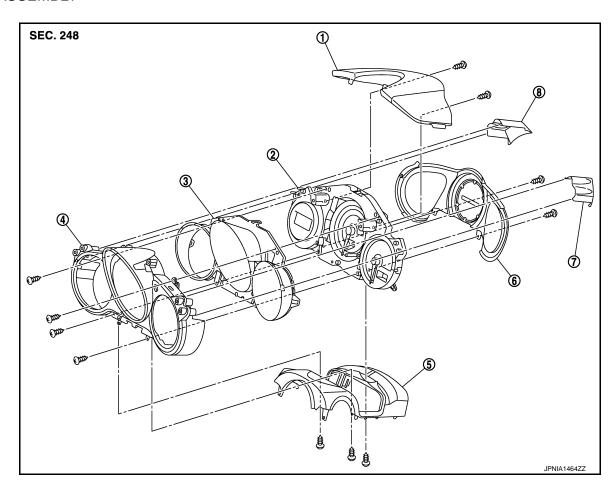
COMBINATION METER

Exploded View

REMOVAL

Refer to IP-13, "Exploded View".

DISASSEMBLY



- 1. Upper cover
- 4. Front cover
- 7. Meter control switch cover (RH)
- 2. Combination meter
- 5. Steering column upper cover
- 8. Meter control switch cover (LH)
- 3. Meter housing
- 6. Rear cover

Removal and Installation

REMOVAL

1. Remove the steering column lower cover. Refer to IP-14, "Removal and Installation".

INFOID:0000000009359000

Р

0

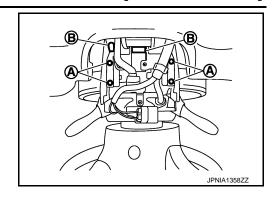
Revision: 2013 May **MWI-103** 2014 370Z

COMBINATION METER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

2. Remove bolts (A) and clip (B), and remove combination meter.



INSTALLATION

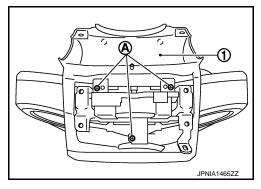
Install in the reverse order of removal.

Disassembly and Assembly

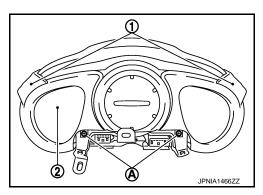
INFOID:0000000009359001

DISASSEMBLY

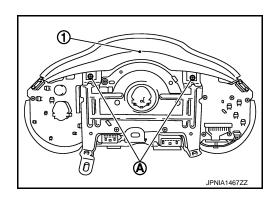
1. Remove screws (A) and remove steering column upper cover (1).



- 2. Disengage pawl and remove meter control switch cover (1).
- 3. Remove screws (A) and remove rear cover (2).



4. Remove screws (A) and remove upper cover (1).

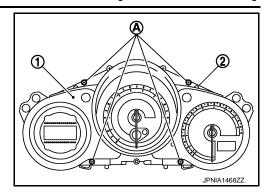


COMBINATION METER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- 5. Remove screws (A) and remove front cover (1).
- 6. Disengage the tabs and then remove meter housing (2).



ASSEMBLY

Assemble in the reverse order of disassembly.

Е

Α

В

C

D

G

F

Н

Κ

L

M

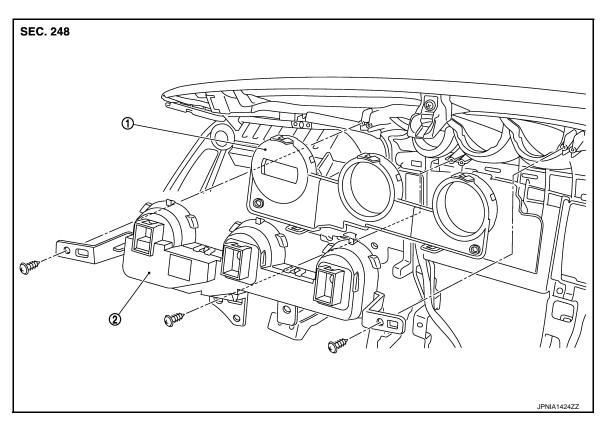
MWI

0

TRIPLE METER

Exploded View

REMOVAL



1. Front cover

Triple meter

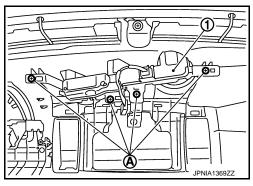
Removal and Installation

INFOID:0000000009359003

REMOVAL

1. Remove instrument panel assembly and remove triple meter cover. Refer to IP-14, "Removal and Installation".

2. Remove screws (A) and remove triple meter (1).



INSTALLATION

Install in the reverse order of removal.

Disassembly and Assembly

INFOID:0000000009359004

DISASSEMBLY

Disengage the tabs to separate front cover.

ASSEMBLY

TRIPLE METER

REMOVAL	AND INSTAL	I ATION S

[REGULAR GRADE]

Assemble in the reverse order of disassembly.

Α

В

С

D

Е

F

G

Н

J

Κ

L

 \mathbb{N}

MWI

0

INFOID:0000000009359005

SPEC CHANGE INFORMATION

COMBINATION METER

Combination Meters

Dedicated vehicular combination meter color changed, equipped with nismo logo.

