

DI

SECTION D

DRIVER INFORMATION SYSTEM

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PRECAUTIONS

PRECAUTIONS

PFP:00011

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

EKS00367

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 and SB section of this Service Manual.

WARNING:

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

Wiring Diagrams and Trouble Diagnosis

EKS00368

When you read wiring diagrams, refer to the followings:

- Refer to [GI-13, "How to Read Wiring Diagrams"](#) in GI section
- Refer to [PG-2, "POWER SUPPLY ROUTING"](#) for power distribution circuit in PG section

When you perform trouble diagnosis, refer to the followings:

- Refer to [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section
- Refer to [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section

A

B

C

D

E

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M

COMBINATION METERS (LHD MODELS)

COMBINATION METERS (LHD MODELS)

PFP:24810

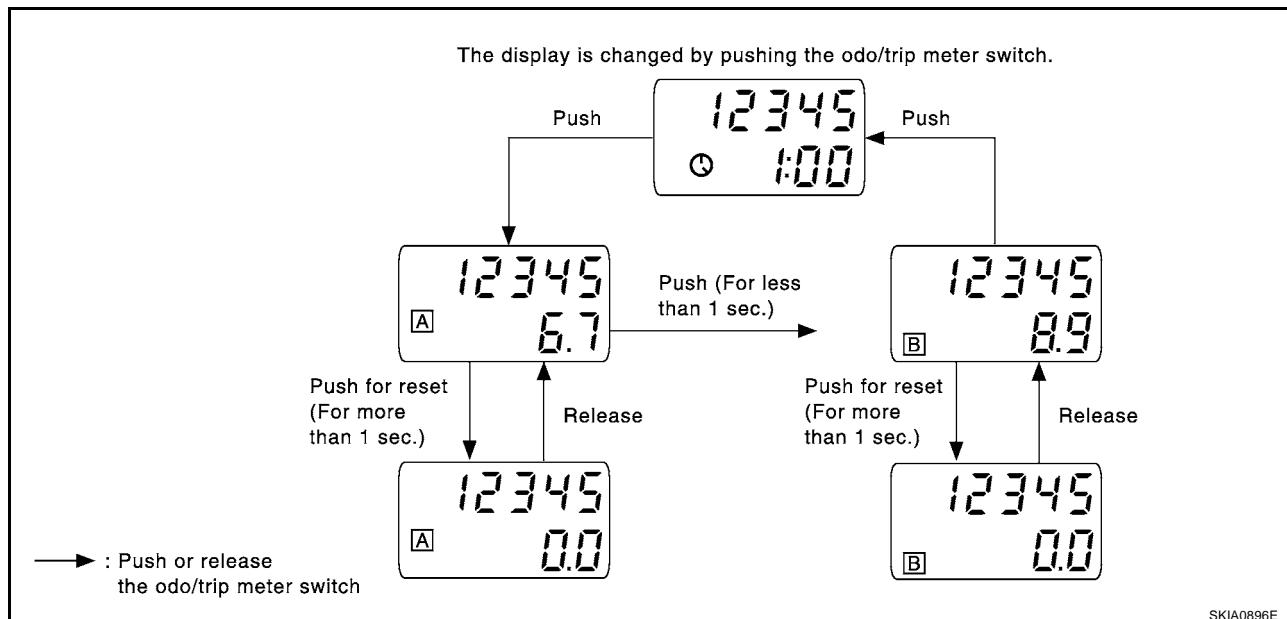
System Description

UNIFIED CONTROL METER

EKS00227

- Speedometer, odo/trip meter, tachometer, fuel gauge and water temperature gauge are controlled totally by control unit built-in combination meter.
- Digital meter is adopted for odo/trip meter.*
*The record of the odo meter is kept even if the battery cable is disconnected. The record of the trip meter is erased when the battery cable is disconnected.
- Odo/trip meter segment can be checked in diagnosis mode.
- Meter/gauge can be checked in diagnosis mode.

HOW TO CHANGE THE DISPLAY FOR ODO/TRIP METER



NOTE:

Turn ignition switch to the "ON" position to operate odo/trip meter.

POWER SUPPLY AND GROUND CIRCUIT

Power is supplied at all times

- through 10A fuse [No. 28, located in the fuse block (J/B)]
- to combination meter terminal 45.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 11, located in the fuse block (J/B)]
- to combination meter terminal 46.

Ground is supplied

- through body grounds M27 and M70
- to combination meter terminal 47.

WATER TEMPERATURE GAUGE

Gasoline engine models

The water temperature gauge indicates the engine coolant temperature. The reading on the gauge is received engine coolant temperature signal from ECM. ECM is detected by water temperature sensor.

The water temperature gauge is received by a signal

- from ECM terminal 32
- to combination meter terminal 55.

The needle on the gauge moves from "C" to "H"

COMBINATION METERS (LHD MODELS)

Diesel engine models

The water temperature gauge indicates the engine coolant temperature. The reading on the gauge is based on the resistance of the thermal transmitter.

As the temperature of the coolant increases, the resistance of the thermal transmitter decreases. A variable ground is supplied to terminal 55 of the combination meter for the water temperature gauge. The needle on the gauge moves from "C" to "H".

TACHOMETER

The tachometer indicates engine speed in revolutions per minute (rpm).

The tachometer is regulated by a signal

- from terminal 36 (Gasoline engine models) or D1 (Diesel engine models) of the ECM
- to combination meter terminal 54 for the tachometer.

FUEL GAUGE

The fuel gauge indicates the approximate fuel level in the fuel tank.

The fuel gauge is regulated by a variable ground signal supplied

- from body grounds, B8 and B18
- through terminals 4 and 1 of the fuel level sensor unit and
- through terminals 1 and 3 of the Sub fuel level sensor unit
- to combination meter terminal 51 for the fuel gauge.

SPEEDOMETER

The combination meter provides a voltage signal to the vehicle speed signal from 4WD/ABS control unit (without ESP) or 4WD control unit (with ESP).

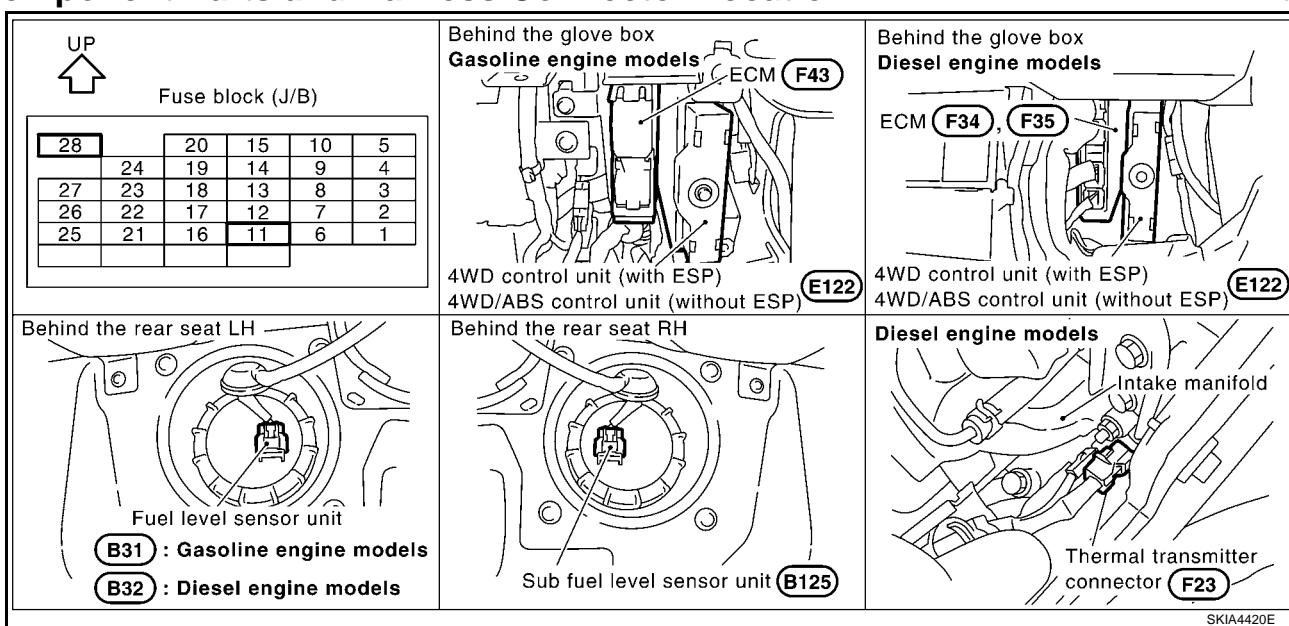
The voltage is supplied

- from combination meter terminal 52 for the speedometer
- to terminal 20 of 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).

The speedometer converts the voltage into the vehicle speed displayed.

Component Parts and Harness Connector Location

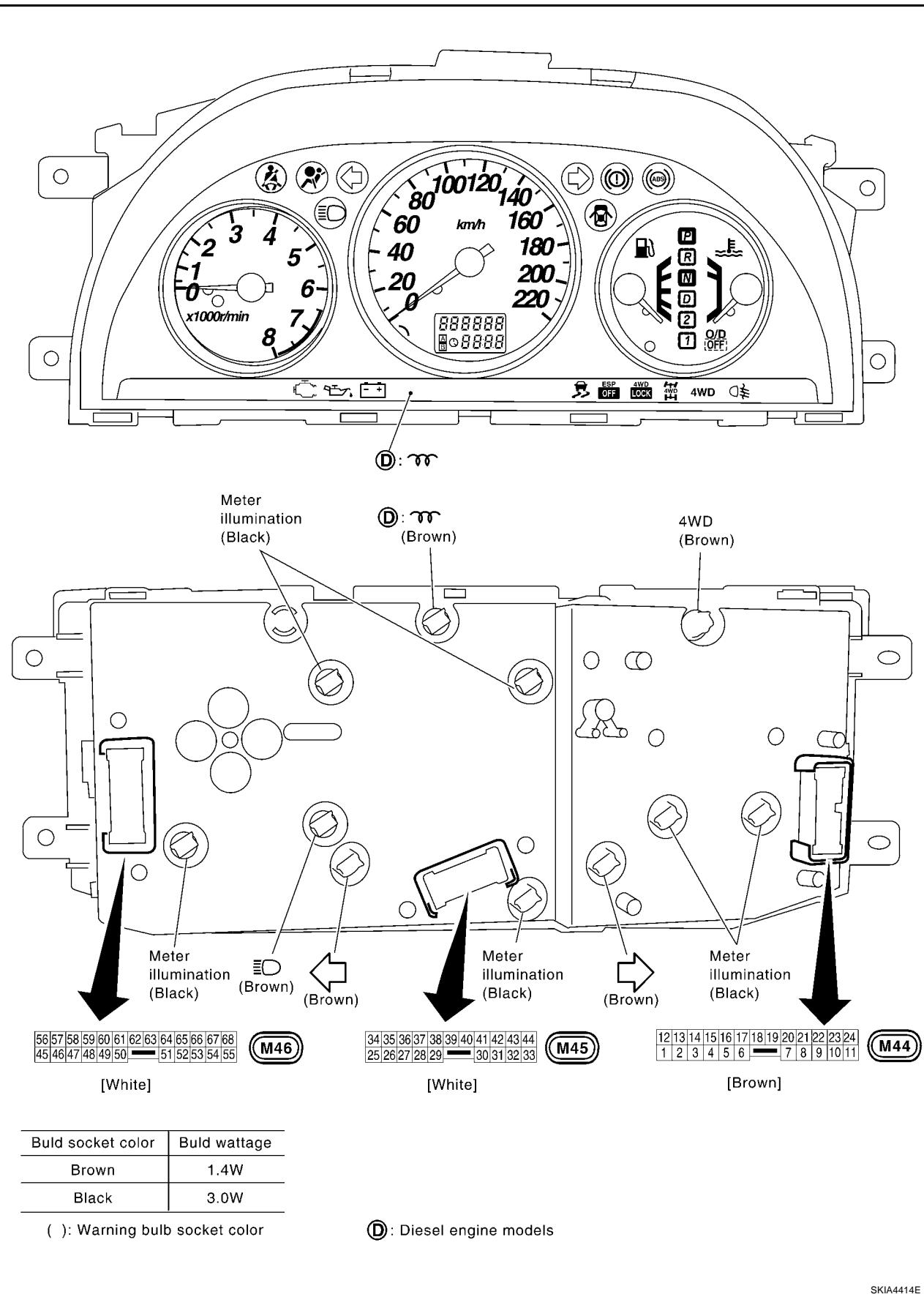
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COMBINATION METERS (LHD MODELS)

Combination Meter CHECK

EKS002Z9

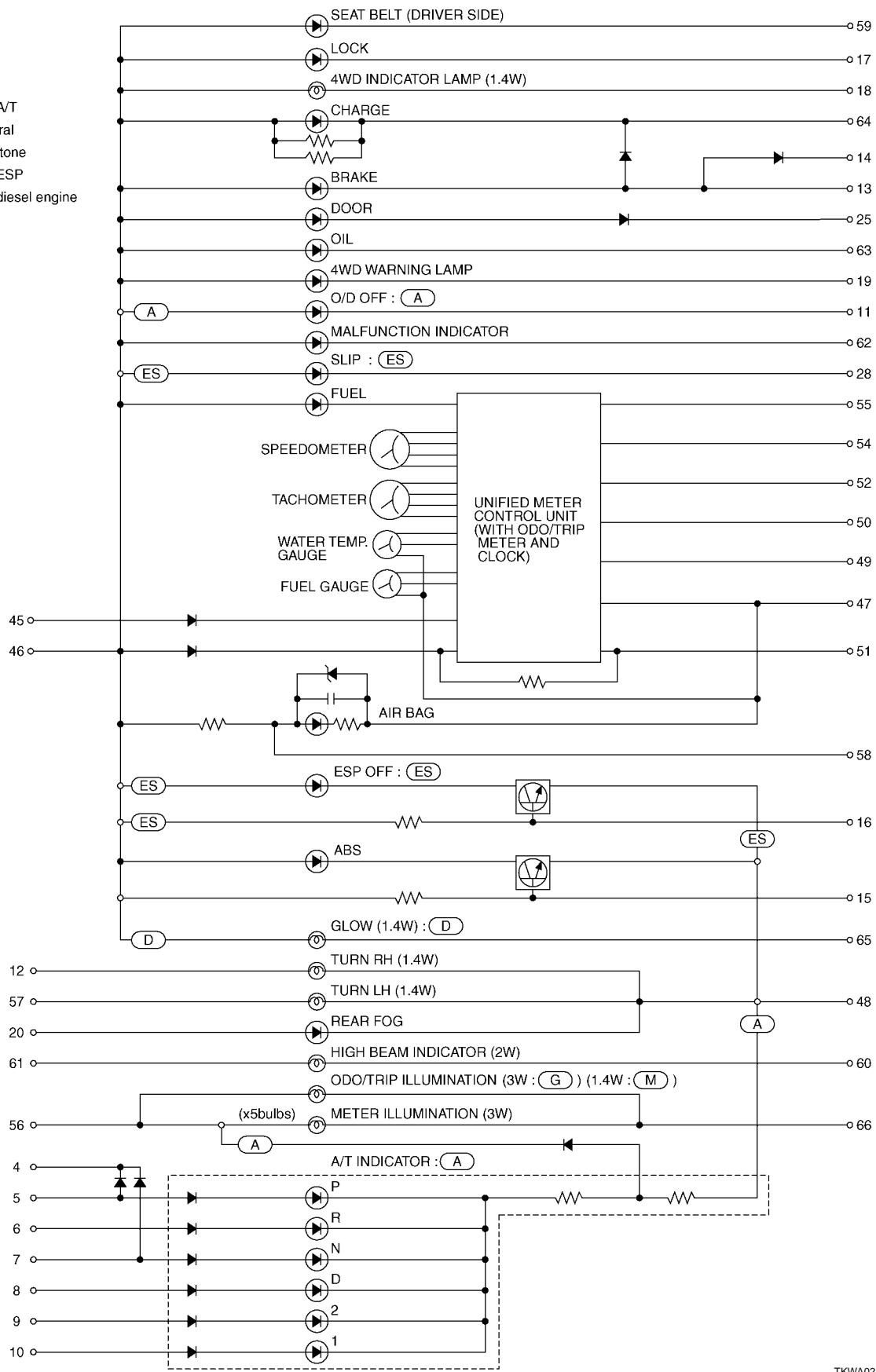


COMBINATION METERS (LHD MODELS)

Schematic

EKS002ZA

- (A) : With A/T
- (G) : General
- (M) : Monotone
- (ES) : With ESP
- (D) : With diesel engine

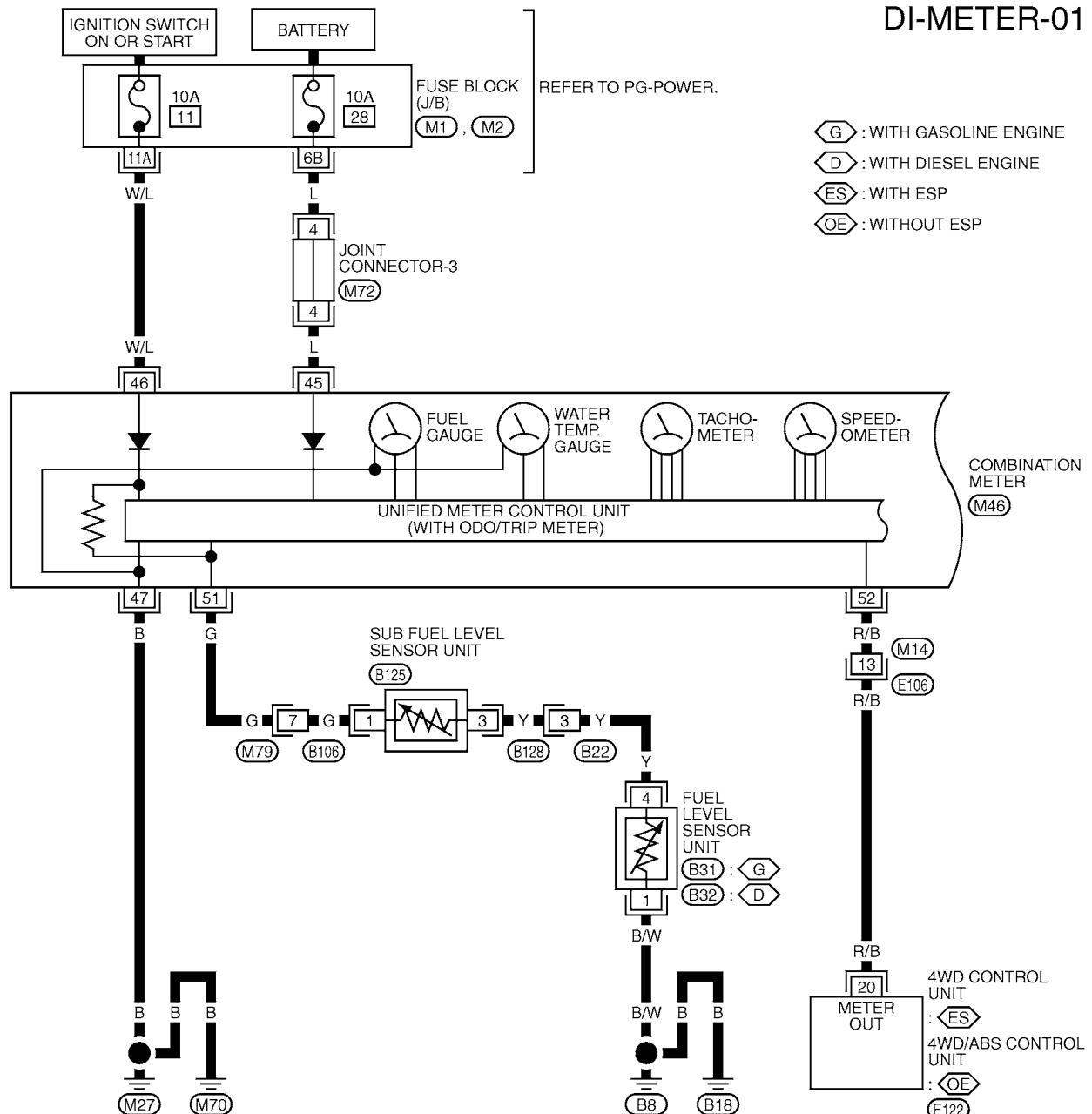


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COMBINATION METERS (LHD MODELS)

Wiring Diagram — METER —

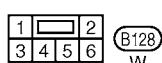
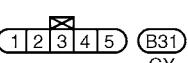
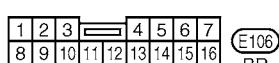
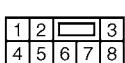
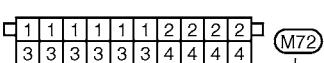
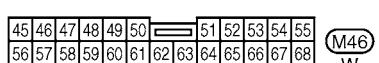
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I REFER TO THE FOLLOWING

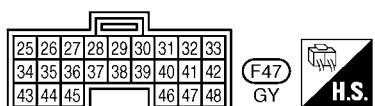
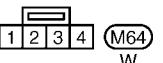
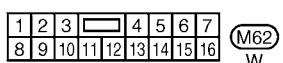
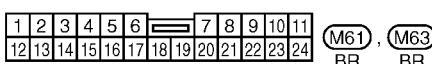
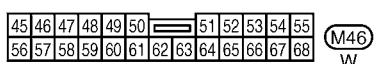
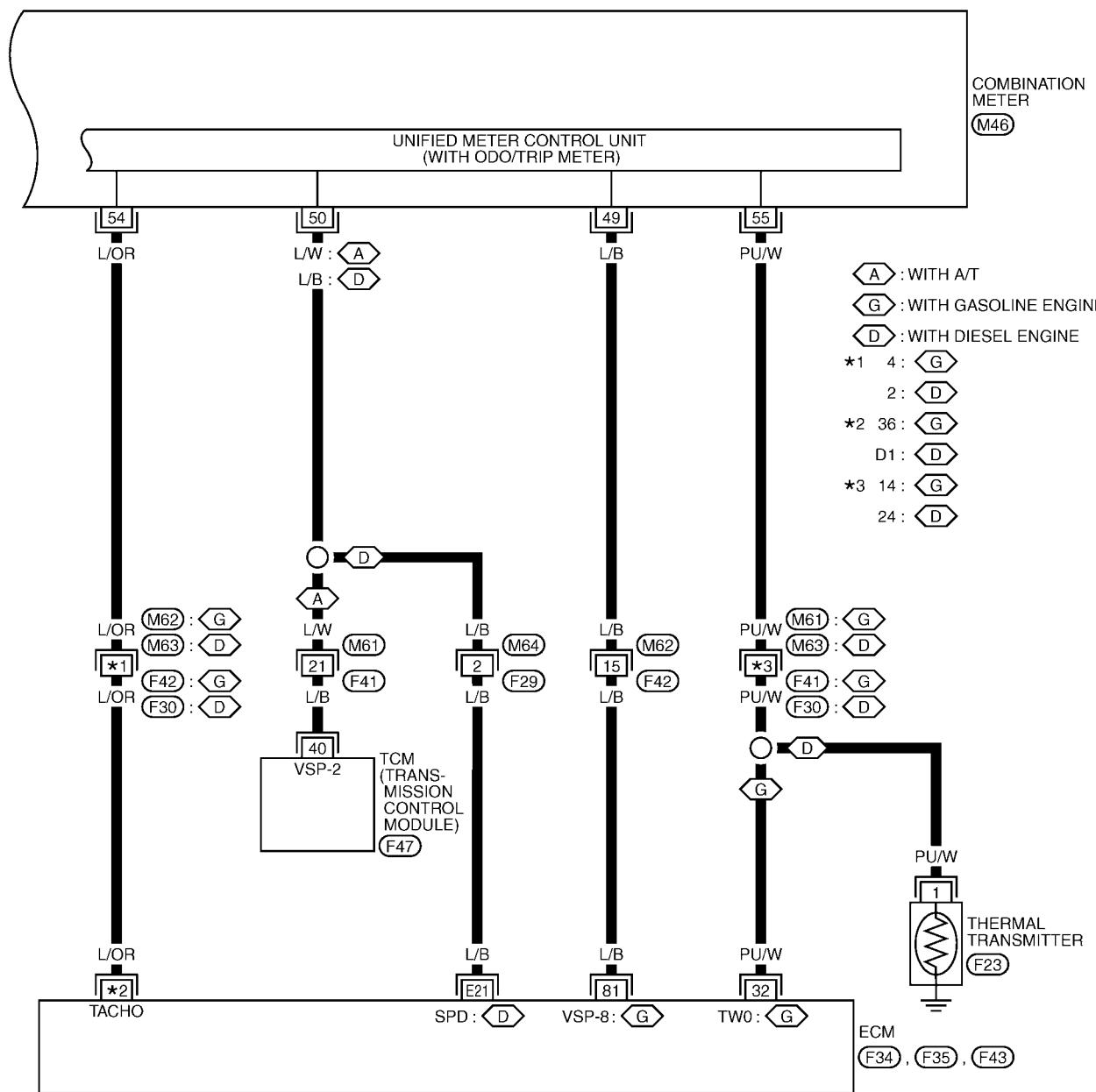
M1, M2 - FUSE BLOCK-
UNCTION BOX (UP)

JUNCTION BOX (J/B)



COMBINATION METERS (LHD MODELS)

DI-METER-02



REFER TO THE FOLLOWING.
(F34), (F35), (F43)
-ELECTRICAL UNITS

COMBINATION METERS (LHD MODELS)

Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode

EKS002ZC

DIAGNOSIS FUNCTION

- Odo/trip meter segment can be checked in diagnosis mode.
- Meters/gauges can be checked in diagnosis mode.

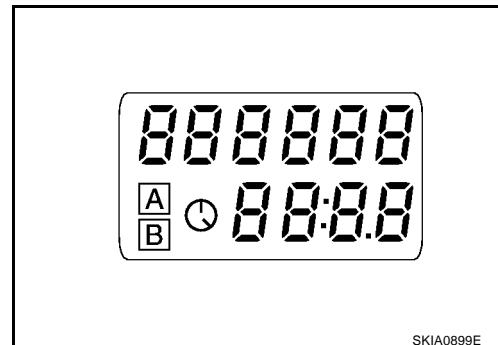
HOW TO ALTERNATE DIAGNOSIS MODE

1. Turn ignition switch to ON and change odo/trip meter to "TRIP A" or "TRIP B".
2. Turn ignition switch to OFF.
3. Turn ignition switch to ON when pushing odo/trip meter switch.
4. Confirm that trip meter indicates "000.0".
5. Push odo/trip meter switch more than three times within 5 seconds.
6. All odo/trip meter segments should be turned on.

NOTE:

If some segments are not turned on, unified meter control unit with odo/trip meter should be replaced.

At this point, the unified control meter is turned to diagnosis mode.

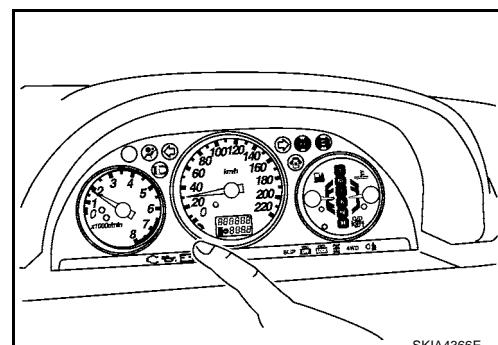


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7. Push odo/trip meter switch. Indication of each meter/gauge should be as shown left during pushing odo/trip meter switch if it is no malfunctioning.

NOTE:

It takes about a few seconds for indication of fuel gauge and water temperature gauge to become stable.



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Trouble Diagnoses PRELIMINARY CHECK

EKS002ZD

1. CHECK WARNING LAMPS

1. Turn ignition switch ON.
2. Warning lamps should illuminate (seat belt warning or door warning etc.).

Do warning lamps illuminate?

Yes >> GO TO 2.

No >> Power supply and ground circuit check. Refer to [DI-13, "Power Supply and Ground Circuit Check"](#)

2. CHECK DIAGNOSIS MODE OPERATION

Preform diagnosis mode. Refer to [DI-10, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#).

Can diagnosis mode be activated?

Yes >> GO TO 3.

No >> Power supply and ground circuit check. Refer to [DI-13, "Power Supply and Ground Circuit Check"](#)

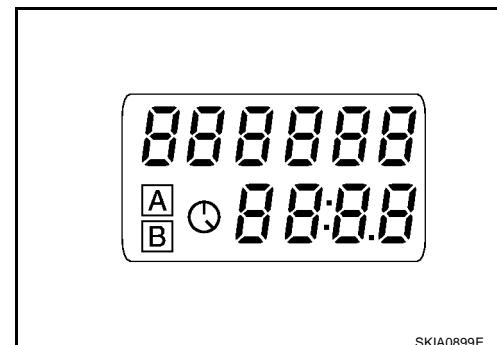
3. SEGMENTS CHECK

Check odo / trip meter segment.

Do all segments illuminate?

Yes >> GO TO 4.

No >> Replace combination meter.



4. FUEL WARNING LAMP ILLUMINATION CONFIRMATION

During fuel warning lamp check, confirm illumination of fuel warning lamp.

Condition of odo/trip meter switch	Fuel warning lamp
Pushed	Does not illuminate.
Released	Illuminates.

OK or NG

OK >> GO TO 5.

NG >> Replace the combination meter.

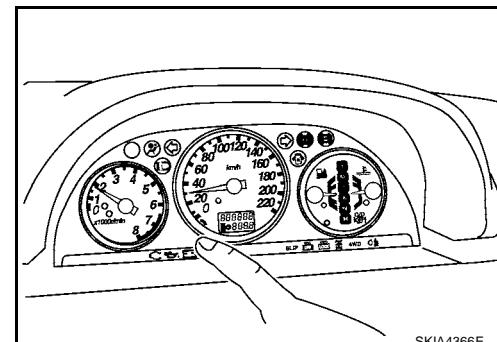
5. CHECK METER CIRCUIT

Check indication of each meter/gauge in self-diagnosis mode.

OK or NG

OK >> Go to symptom chart.

NG >> Replace combination meter.



COMBINATION METERS (LHD MODELS)

SYMPTOM CHART

Symptom	Possible cause	Repair procedure
Fuel warning lamp is malfunctioning.		<ol style="list-style-type: none">1. Check the sensor for malfunctioning meter/gauge.– INSPECTION/ENGINE SPEED SIGNAL (Refer to DI-13, "Inspection/Engine Speed Signal" .)
One of tachometer/fuel gauge/water temp. gauge is malfunctioning.	<ol style="list-style-type: none">1. Sensor Signal<ul style="list-style-type: none">– Engine revolution signal– Fuel gauge– Water temp gauge2. Unified meter control unit	<ol style="list-style-type: none">1. Check the sensor for malfunctioning meter/gauge.– INSPECTION/FUEL LEVEL SENSOR UNIT (Refer to DI-17, "Inspection/Fuel Level Sensor Unit" .)– INSPECTION/THERMAL TRANSMITTER (Refer to DI-14, "Inspection/Water Temperature Gauge /Gasoline Engine Models" or DI-15, "Inspection/Water Temperature Gauge (Diesel Engine Models)" .)2. Replace combination meter
Speedometer and odo/trip meter is malfunctioning.	<ol style="list-style-type: none">1. Sensor Signal<ul style="list-style-type: none">– Vehicle speed signal2. Unified meter control unit	<ol style="list-style-type: none">1. Check the sensor for malfunctioning meter/gauge.– INSPECTION/VEHICLE SPEED SIGNAL (Refer to DI-13, "Inspection/Engine Speed Signal" .)2. Replace combination meter
Multiple meter/gauge are malfunctioning.	<ul style="list-style-type: none">● Unified meter control unit	<ul style="list-style-type: none">● Replace combination meter.

COMBINATION METERS (LHD MODELS)

Power Supply and Ground Circuit Check

EKS002ZE

1. POWER SUPPLY CIRCUIT CHECK

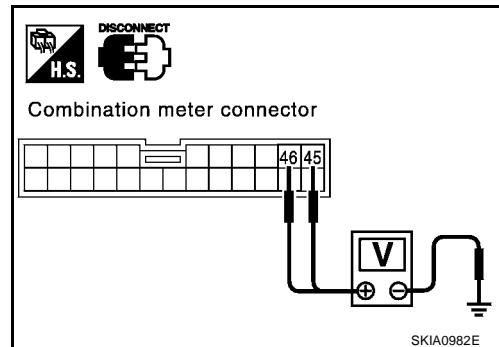
Terminals		Ignition switch position			
(+) Connector		(-)	OFF	ACC	ON
Connector	Terminal (wire color)				
M46	45 (L)	Ground	Battery voltage	Battery voltage	Battery voltage
M46	46 (W/L)	Ground	0V	0V	Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following:

- 10A fuse [No. 11, located in fuse block (J/B)]
- 10A fuse [No. 28, located in fuse block (J/B)]
- Harness for open or short between fuse and combination meter



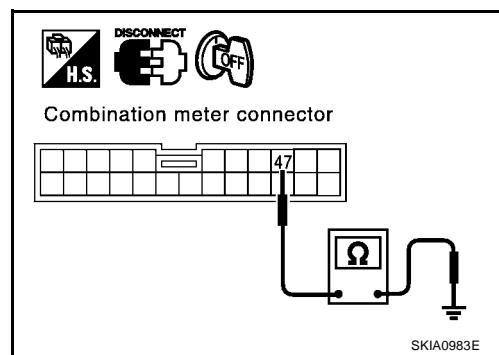
2. GROUND CIRCUIT CHECK

Terminals		Continuity	
(+)	(-)	Connector	Terminal (wire color)
M46	47 (B)	Ground	Yes

OK or NG

OK >> Inspection end.

NG >> Check harness for open ground circuit.



Inspection/Engine Speed Signal

EKS002ZF

1. CHECK ECM OUTPUT

1. Start engine.
2. Check voltage between combination meter harness connector M46 terminals 54 (L/OR) and ground at idle and 2,000 rpm.

Higher rpm = Higher voltage

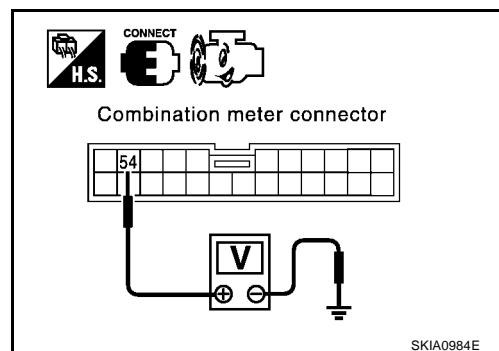
Lower rpm = Lower voltage

Voltage should change with rpm.

OK or NG

OK >> Engine speed signal is OK.

NG >> Check harness for open or short between ECM and combination meter.



COMBINATION METERS (LHD MODELS)

Inspection/Water Temperature Gauge /Gasoline Engine Models

EKS0022T

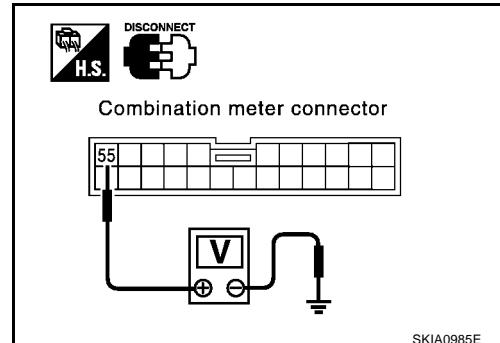
1. CHECK ECM OUTPUT

1. Disconnect combination meter.
2. Check voltage between combination meter harness connector M46 terminal 55 (PU/W) and ground.

Battery voltage should exist.

OK or NG

OK >> GO TO 3.
NG >> GO TO 2.



2. CHECK HARNESS FOR OPEN OR SHORT

1. Disconnect ECM connector.
2. Check continuity between combination meter harness connector M46 terminal 55 (PU/W) and ECM harness connector F43 terminal 32 (PU/W).

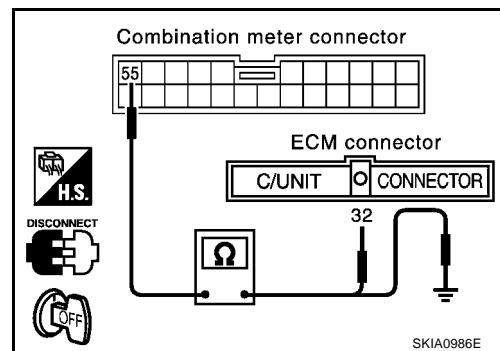
Continuity should exist.

3. Check continuity between combination meter harness connector M46 terminal 55 (PU/W) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 3.
NG >> Repair harness or connector.



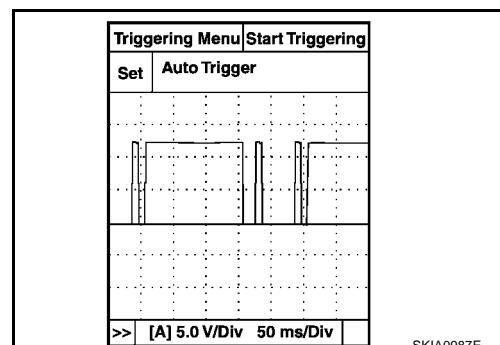
3. CHECK WATER TEMPERATURE OUTPUT SIGNAL

1. Connect combination meter connector and ECM connector.
2. Start engine.
3. Check output signal between combination meter harness connector M46 terminal 55 (PU/W) and ground. (Use "SIMPLE OSCILLOSCOPE" in "SUB MODE" with CONSULT-II.)

55 (PU/W) – ground

OK or NG

OK >> Replace combination meter.
NG >> Check ECM.



COMBINATION METERS (LHD MODELS)

Inspection/Water Temperature Gauge (Diesel Engine Models)

EKS002ZG

1. CHECK THERMAL TRANSMITTER

Refer to [DI-22, "THERMAL TRANSMITTER CHECK"](#).

OK or NG

OK >> GO TO 2.

NG >> Replace thermal transmitter.

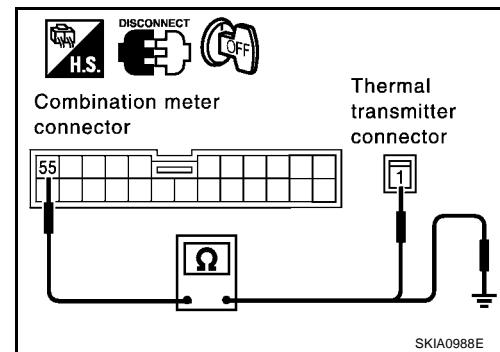
2. CHECK HARNESS FOR OPEN OR SHORT

1. Disconnect combination meter connector and thermal transmitter connector.
2. Check continuity between combination meter harness connector M46 terminal 55 (PU/W) and thermal transmitter harness connector F23 terminal 1 (PU/W).

Continuity should exist.

3. Check continuity between combination meter harness connector M46 terminal 55 (PU/W) and ground.

Continuity should not exist.



OK or NG

OK >> Thermal transmitter is OK.

NG >> Replace harness or connector.

COMBINATION METERS (LHD MODELS)

Inspection/Vehicle speed signal

EKS002ZH

1. CHECK ABS WARNING LAMP

- Turn the ignition switch ON, then ABS warning lamp turn ON.

ABS warning lamp should illuminate.

OK or NG

OK >> Check 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).
NG >> GO TO 2.

2. CHECK HARNESS FOR OPEN OR SHORT

- Disconnect combination meter connector and 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP) connector.
- Check continuity between combination meter harness connector M46 terminal 52 (R/B) and 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP) harness connector E122 terminal 20 (R/B).

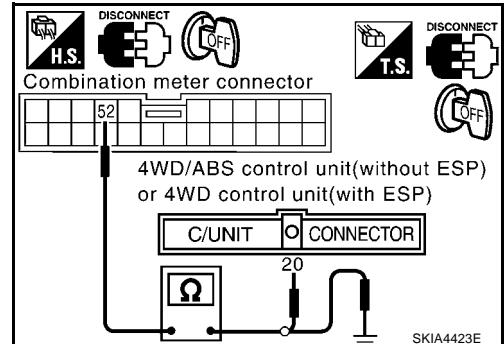
Continuity should exist.

- Check continuity between combination meter harness connector M46 terminal 52 (R/B) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 3.
NG >> Repair harness or connector.



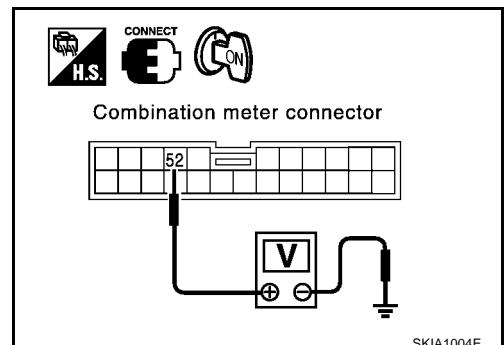
3. CHECK 4WD/ABS CONTROL UNIT (WITHOUT ESP) OR 4WD CONTROL UNIT (WITH ESP) OUTPUT

- Connect combination meter connector.
- Check voltage between combination meter harness connector M46 terminal 52 (R/B) and ground.

Approx. 9V

OK or NG

OK >> GO TO 4.
NG >> Replace combination meter.



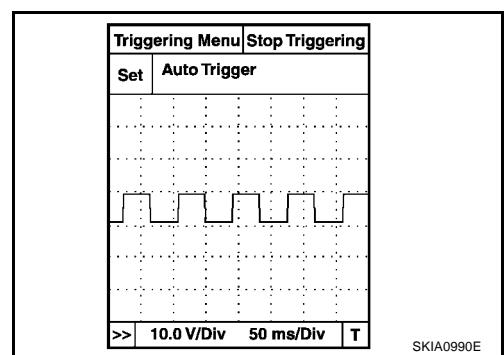
4. CHECK VEHICLE SPEED INPUT SIGNAL

- Connect 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP) connector.
- Lift up drive wheels.
- Start engine.
- Check voltage signal between combination meter harness connector M46 terminal 52 (R/B) and ground. (Use "SIMPLE OSCILLOSCOPE" in "SUB MODE" with CONSULT-II.)

52 (R/B) – ground

OK or NG

OK >> Replace combination meter.
NG >> Check 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).



Inspection/Fuel Level Sensor Unit FUEL LEVEL SENSOR UNIT

EKS002ZI

The following symptoms do not indicate a malfunction.

- Depending on vehicle posture or driving circumstance, the fuel level in the tank varies, and the pointer may fluctuate.
- If the vehicle is fueled with the ignition switch ON, the pointer will move slowly.

LOW-FUEL WARNING LAMP

Depending on vehicle posture or driving circumstance, the fuel level in the tank varies, and the warning lamp ON timing may be changed.

1. DIAGNOSIS MODE INSPECTION

Preform the combination meter diagnosis mode. Refer to [DI-10, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#).

OK or NG

OK >> GO TO 2.
NG >> Replace combination meter.

2. HARNESS CONNECTOR INSPECTION

- Turn the ignition switch OFF.
- Check combination meter, fuel level sensor unit and terminals (meter-side, module-side, and harness-side) for poor connection and bend.

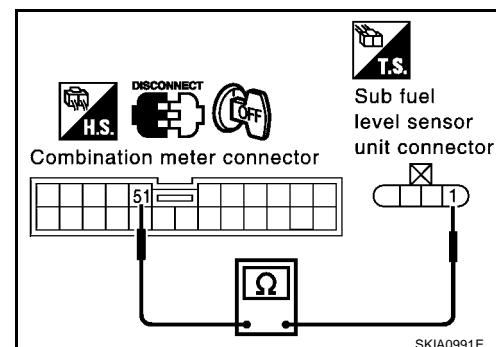
OK or NG

OK >> GO TO 3.
NG >> Repair or replace terminals or connectors.

3. CHECK FUEL LEVEL SENSOR FOR OPEN CIRCUIT

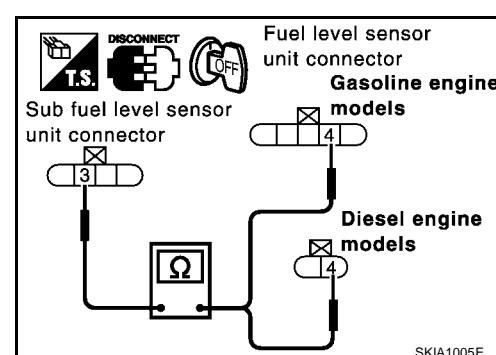
- Disconnect combination meter connector, fuel level sensor unit connector and sub fuel level sensor unit connector.
- Check the following.
 - Continuity between combination meter harness connector M46 terminal 51 (G) and sub fuel level sensor unit harness connector B125 terminal 1 (G).

Continuity should exist.



- Continuity between sub fuel level sensor unit harness connector B125 terminal 3 (Y) and fuel level sensor unit harness connector B31 (Gasoline engine models) or B32 (Diesel engine models) terminal 4 (Y).

Continuity should exist.



OK or NG

OK >> GO TO 4.
NG >> Repair or replace harnesses or connectors.

COMBINATION METERS (LHD MODELS)

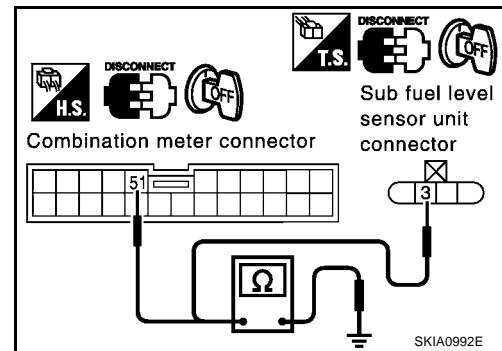
4. CHECK FUEL LEVEL SENSOR SHORT CIRCUIT

1. Checking the following.
 - Continuity between combination meter harness connector M46 terminal 51 (G) and ground.
Continuity should not exist.
 - Continuity between sub fuel level sensor harness connector B125 terminal 3 (Y) and ground.
Continuity should not exist.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harnesses or connectors.



5. CHECK FUEL LEVEL SENSOR GROUND CIRCUIT

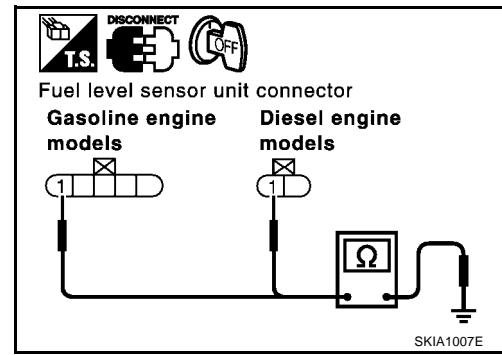
Check continuity between fuel level sensor unit harness connector B31 (Gasoline engine models) or B32 (Diesel engine models) terminal 1 (B/W) and ground.

Continuity should exist.

OK or NG

OK >> GO TO 6.

NG >> Repair or replace harnesses or connectors.



6. FUEL LEVEL SENSOR UNIT INSPECTION

Check the components. Refer to [DI-21, "Electrical Components Inspection"](#) .

OK or NG

OK >> GO TO 7.

NG >> Replace fuel level sensor unit or sub fuel level sensor unit.

7. CHECK INSTALLATION CONDITION

Check fuel level sensor unit installation, and check whether the float arm interferes or binds with any components inside the arm.

OK or NG

OK >> Replace combination meter.

NG >> Install fuel level sensor unit or sub fuel sensor unit properly.

The Fuel Gauge Pointer Fluctuates-Indicator Wrong Value-or Varies.

EKS002ZJ

1. CHECK THE FUEL GAUGE POINTER FOR FLUCTUATION

Does the indication value fluctuate during driving or before/after stop?

Does the indication value vary?

Yes >> The pointer fluctuation may be caused by fuel level change in the fuel tank.

No >> Ask the customer about the situation when the symptom occurs in detail, and Preform the trouble diagnosis.

COMBINATION METERS (LHD MODELS)

The Fuel Gauge Does Not Move to Full-position.

EKS002ZK

1. QUESTION 1

Does it take a long time for the pointer to move to Full-position?

Yes or No

Yes >> GO TO 2.
No >> GO TO 3.

2. QUESTION 2

Was the vehicle fueled with the ignition switch ON?

Yes or No

Yes >> Be sure to fuel the vehicle with the ignition switch OFF. Otherwise it will take a long time to move to Full-position because of the characteristic of the fuel gauge.
No >> GO TO 3.

3. QUESTION 3

Is the floor or the vehicle inclined?

Yes or No

Yes >> It may not be filled fully.
No >> GO TO 4.

4. QUESTION 4

During driving, does the fuel gauge pointer move gradually toward E-position?

Yes or No

Yes >> Check the components. Refer to [DI-21, "Electrical Components Inspection"](#).
No >> The float arm may interfere or bind with any of the components in the fuel tank.

The Fuel Gauge Does Not Work.

EKS002ZL

1. HARNESS CONNECTOR INSPECTION

1. Turn the ignition switch OFF.
2. Check combination meter, fuel level sensor unit, sub fuel level sensor unit and terminals (meter-side, module-side, and harness-side) for poor connection and bend.

OK or NG

OK >> GO TO 2.
NG >> Repair connector.

2. CHECK INSTALLATION CONDITION

Check fuel level sensor unit or sub fuel level sensor unit installation (refer to [FL-4, "FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY"](#) for QR engine models or [FL-17, "FUEL LEVEL SENSOR UNIT"](#) for YD engine models), and check whether the float arm interferes or binds with any components inside the arm.

OK or NG

OK >> Fuel level sensor unit is OK.
NG >> Check fuel level sensor unit or sub fuel level sensor unit. Refer to [DI-21, "Electrical Components Inspection"](#).

A

B

C

D

E

F

G

H

I

J

DI

L

M

Low Fuel Warning Lamp Illuminate or Not Illuminate

EKS002ZM

1. DIAGNOSIS MODE INSPECTION

Preform combination meter diagnosis mode. Refer to [DI-10, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#) .

OK or NG

OK >> Check fuel level sensor unit or sub fuel level sensor unit. Refer to [DI-21, "Electrical Components Inspection"](#) .

NG >> Replace combination meter.

COMBINATION METERS (LHD MODELS)

Electrical Components Inspection

EKS002ZN

FUEL LEVEL SENSOR UNIT CHECK / GASOLINE ENGINE MODELS

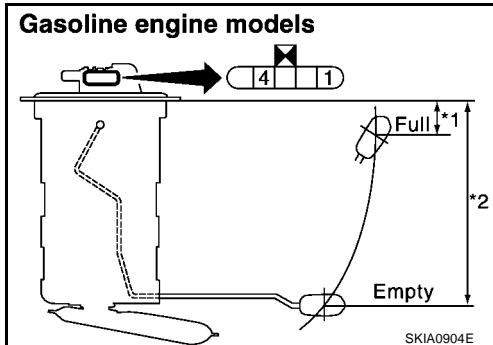
For removal, refer to [FL-4, "FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY"](#) for Gasoline engine models.

Fuel level sensor unit

Check the resistance between terminals 1 and 4.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
4	1	*1	Full	24 (2.36)	Approx. 4 - 6
		*2	Empty	167 (6.57)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.

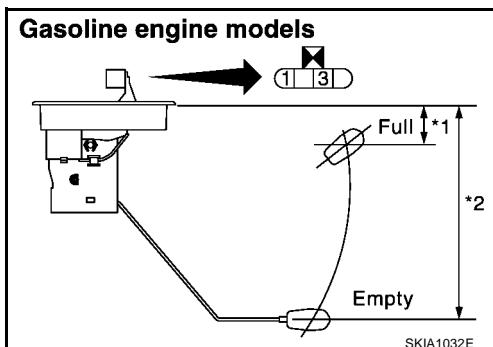


Sub fuel level sensor unit

Check the resistance between terminals 1 and 3.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
1	3	*1	Full	35 (1.50)	Approx. 0.8 - 1
		*2	Empty	186 (6.38)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.



FUEL LEVEL SENSOR UNIT CHECK / DIESEL ENGINE MODELS EXCEPT FOR NORTHERN EUROPE

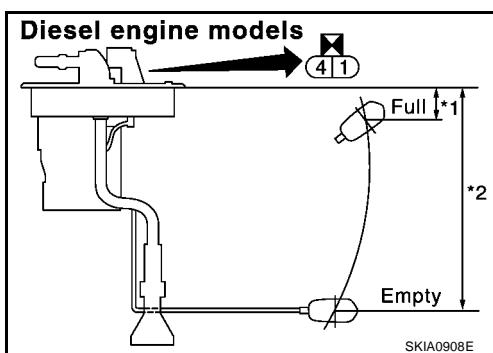
For removal, refer to [FL-17, "FUEL LEVEL SENSOR UNIT"](#) for Diesel engine models.

Fuel level sensor unit

Check the resistance between terminals 1 and 4.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
4	1	*1	Full	24 (2.38)	Approx. 4 - 6
		*2	Empty	170 (6.46)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.



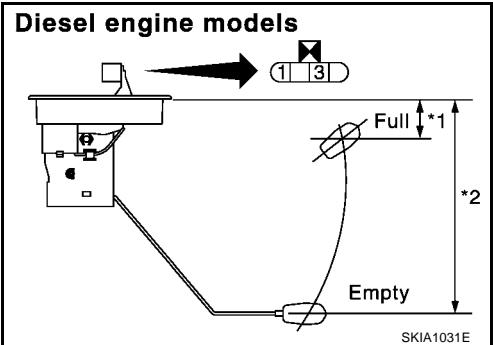
COMBINATION METERS (LHD MODELS)

Sub fuel level sensor unit

Check the resistance between terminals 1 and 3.

Ohmmeter		Float position mm (in)		Resistance value Ω
(+)	(-)			
1	3	*1	Full	35 (1.50) Approx. 0.8 - 1.0
		*2	Empty	186 (6.38) Approx. 38 - 42

*1 and *2: When float rod is in contact with stopper.



FUEL LEVEL SENSOR UNIT CHECK / DIESEL ENGINE MODELS FOR NORTHERN EUROPE

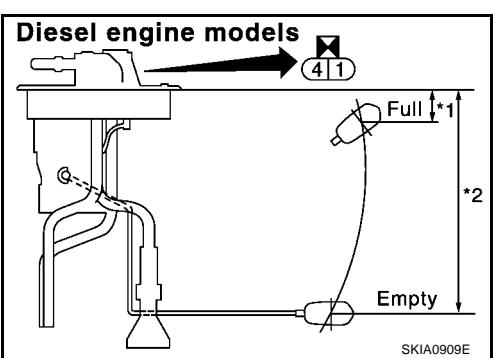
For removal, refer to [FL-17, "FUEL LEVEL SENSOR UNIT"](#) for Diesel engine models.

Fuel level sensor unit

Check the resistance between terminals 1 and 4.

Ohmmeter		Float position mm (in)		Resistance value Ω
(+)	(-)			
1	4	*1	Full	40 (1.57) Approx. 4 - 6
		*2	Empty	171 (6.73) Approx. 80 - 83

*1 and *2: When float rod is in contact with stopper.

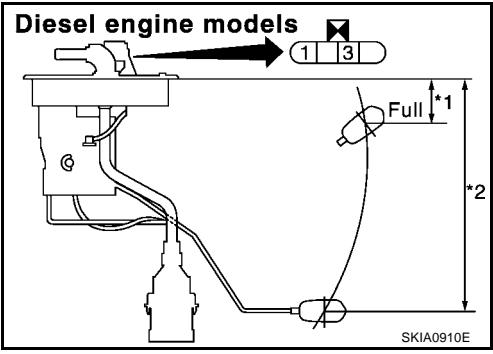


Sub fuel level sensor unit

Check the resistance between terminals 1 and 3.

Ohmmeter		Float position mm (in)		Resistance value Ω
(+)	(-)			
1	3	*1	Full	51 (2.01) Approx. 0.8 - 1.0
		*2	Empty	162 (6.38) Approx. 38 - 42

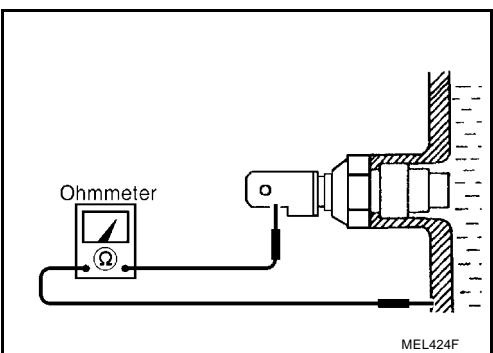
*1 and *2: When float rod is in contact with stopper.



THERMAL TRANSMITTER CHECK

Check the resistance between the terminals of thermal transmitter and body ground.

Water temperature	Resistance
60°C (140°F)	Approx. 170 - 210 Ω
100°C (212°F)	Approx. 47 - 53 Ω

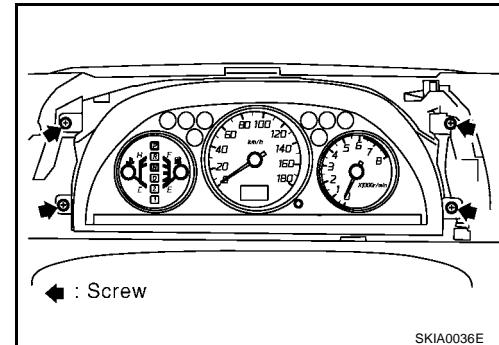


COMBINATION METERS (LHD MODELS)

Removal and Installation for Combination Meter

EKS00220

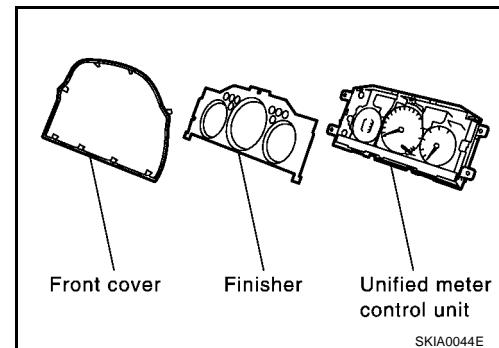
1. Remove the cluster lid A. Refer to [IP-3, "INSTRUMENT PANEL ASSEMBLY"](#).
2. Remove the screws (4), and pull out combination meter.
3. Disconnect connectors and remove combination meter.



Disassembly and Assembly for Combination Meter

EKS0022P

1. Disengaged the tabs(8) to separate front cover.
2. Remove finisher.
3. Remove bulbs.



A
B
C
D
E
F
G
H
I
J

DI

L
M

COMBINATION METERS (RHD MODELS)

COMBINATION METERS (RHD MODELS)

PPF:24810

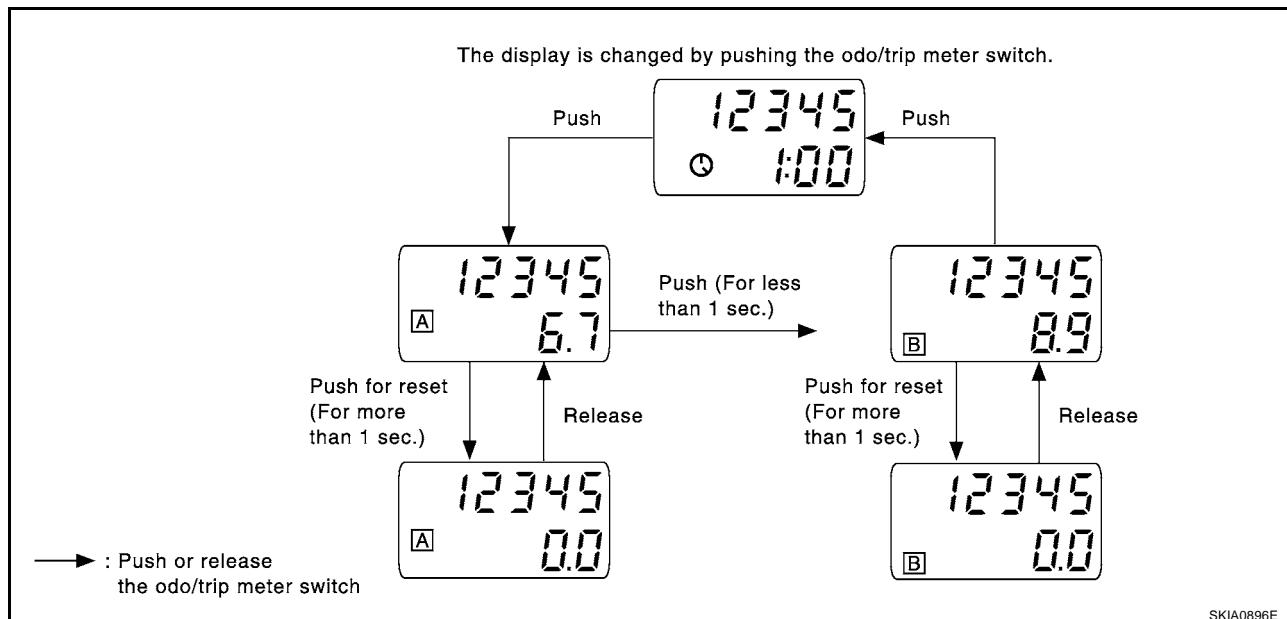
System Description

UNIFIED CONTROL METER

EKS0030H

- Speedometer, odo/trip meter, tachometer, fuel gauge and water temperature gauge are controlled totally by control unit built-in combination meter.
- Digital meter is adopted for odo/trip meter.*
*The record of the odo meter is kept even if the battery cable is disconnected. The record of the trip meter is erased when the battery cable is disconnected.
- Odo/trip meter segment can be checked in diagnosis mode.
- Meter/gauge can be checked in diagnosis mode.

HOW TO CHANGE THE DISPLAY FOR ODO/TRIP METER



NOTE:

Turn ignition switch to the "ON" position to operate odo/trip meter.

POWER SUPPLY AND GROUND CIRCUIT

Power is supplied at all times

- through 10A fuse [No. 28, located in the fuse block (J/B)]
- to combination meter terminal 58.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 11, located in the fuse block (J/B)]
- to combination meter terminal 59.

Ground is supplied

- through body grounds M27 and M70
- to combination meter terminal 60.

WATER TEMPERATURE GAUGE

Gasoline engine models

The water temperature gauge indicates the engine coolant temperature. The reading on the gauge is received engine coolant temperature signal from ECM. ECM is detected by water temperature sensor.

The water temperature gauge is received by a signal

- from ECM terminal 32
- to combination meter terminal 66.

The needle on the gauge moves from "C" to "H"

COMBINATION METERS (RHD MODELS)

Diesel engine models

The water temperature gauge indicates the engine coolant temperature. The reading on the gauge is based on the resistance of the thermal transmitter.

As the temperature of the coolant increases, the resistance of the thermal transmitter decreases. A variable ground is supplied to terminal 66 of the combination meter for the water temperature gauge. The needle on the gauge moves from "C" to "H".

TACHOMETER

The tachometer indicates engine speed in revolutions per minute (rpm).

The tachometer is regulated by a signal

- from terminal 36 (Gasoline engine models) or D1 (Diesel engine models) of the ECM
- to combination meter terminal 41 for the tachometer.

FUEL GAUGE

The fuel gauge indicates the approximate fuel level in the fuel tank.

The fuel gauge is regulated by a variable ground signal supplied

- from body grounds, B107 and B119
- through terminals 4 and 1 of the fuel level sensor unit and
- through terminals 1 and 3 of the sub fuel level sensor unit
- to combination meter terminal 40 for the fuel gauge.

SPEEDOMETER

The combination meter provides a voltage signal to the vehicle speed signal from 4WD/ABS control unit (without ESP) or 4WD control unit (with ESP).

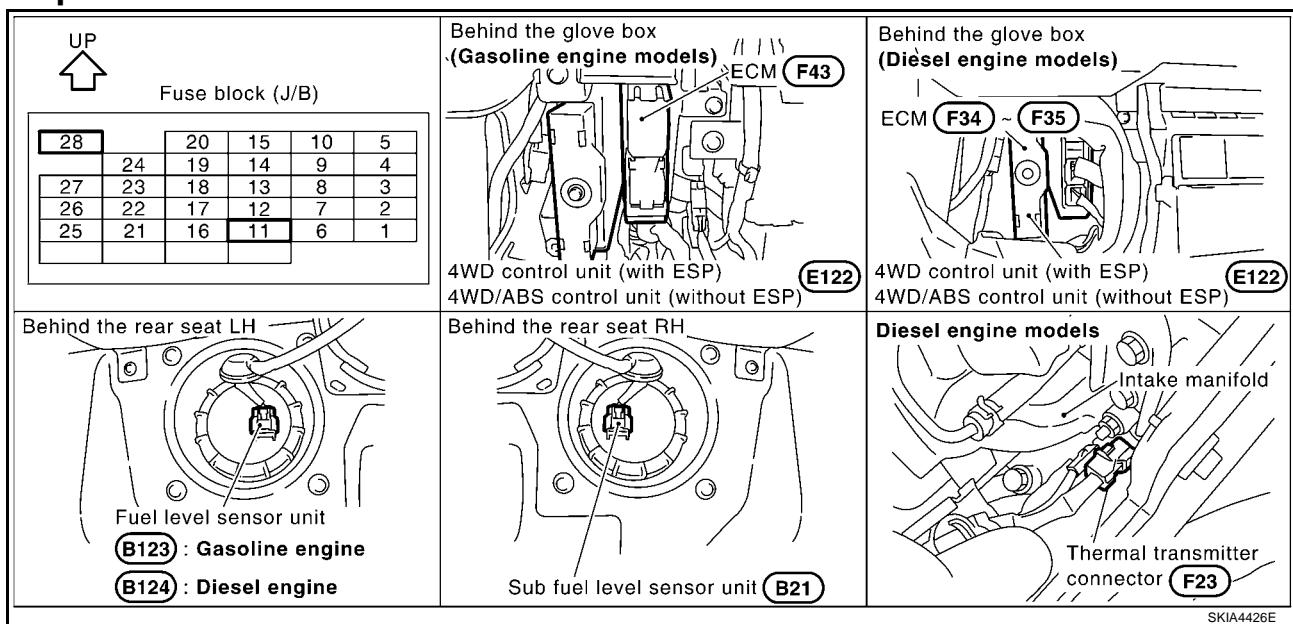
The voltage is supplied

- from combination meter terminal 42 for the speedometer
- to terminal 20 of 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).

The speedometer converts the voltage into the vehicle speed displayed.

Component Parts and Harness Connector Location

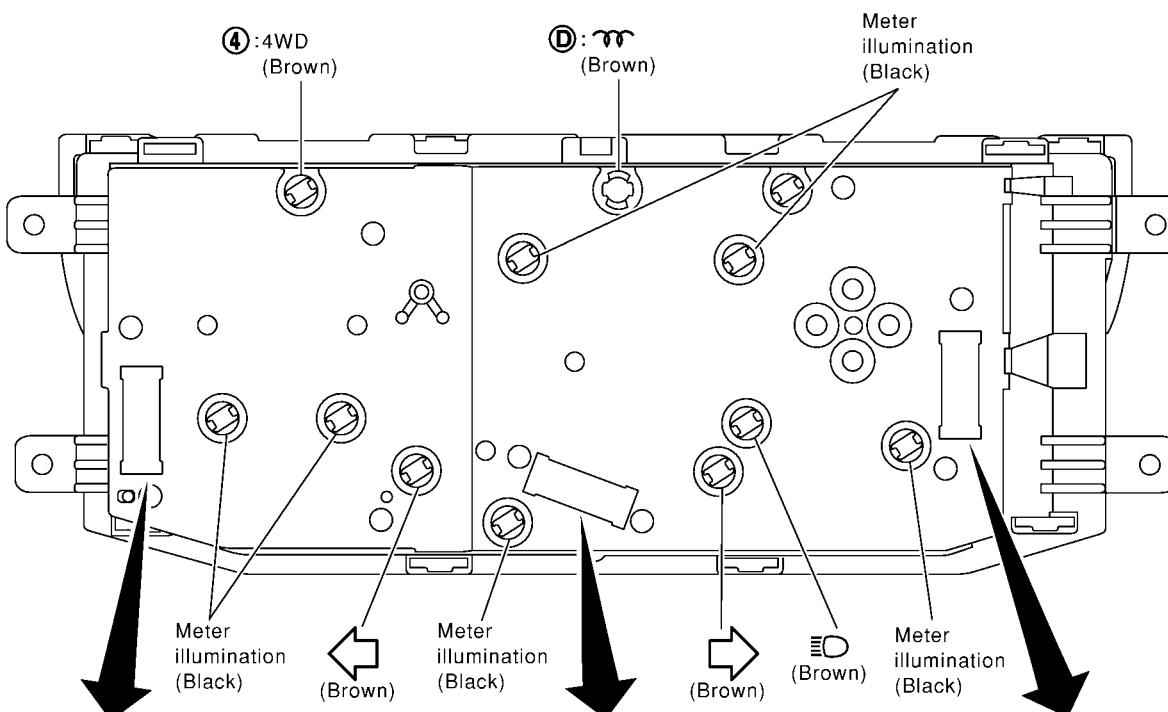
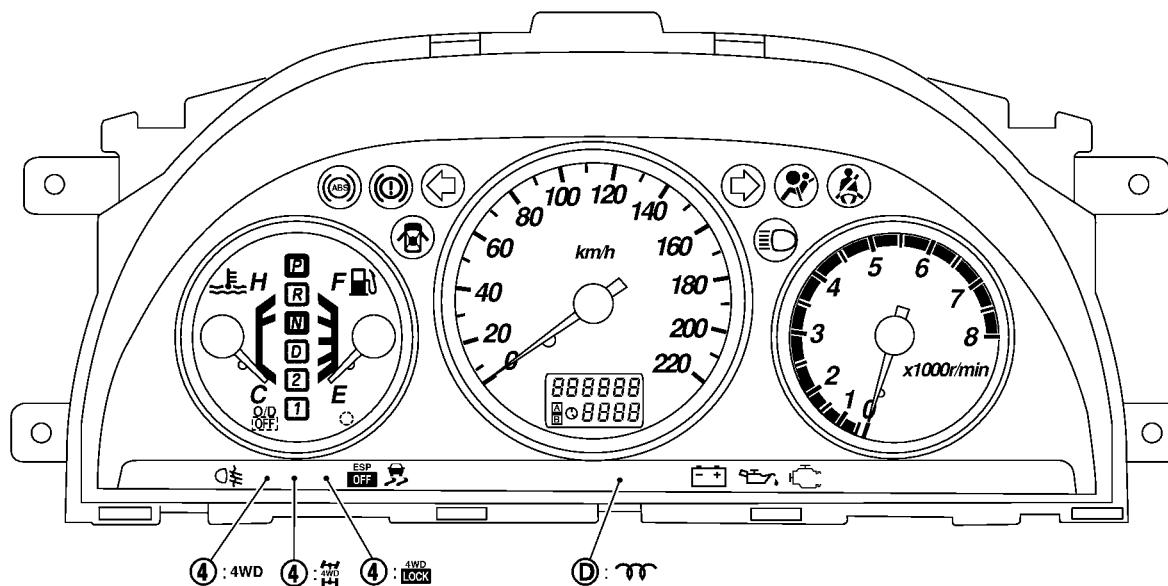
EKS00301



COMBINATION METERS (RHD MODELS)

Combination Meter CHECK

EKS0030J



56 57 58 59 60 61 62 63 64 65 66 67 68
45 46 47 48 49 50 — 51 52 53 54 55

34 35 36 37 38 39 40 41 42 43 44
25 26 27 28 29 — 30 31 32 33

12 13 14 15 16 17 18 19 20 21 22 23 24
1 2 3 4 5 6 — 7 8 9 10 11

[White]

[White]

[Brown]

Bulb socket color	Bulb wattage
Brown	1.4W
Black	3.0W

(): Warning bulb socket color

④: 4WD models

①: Diesel engine models

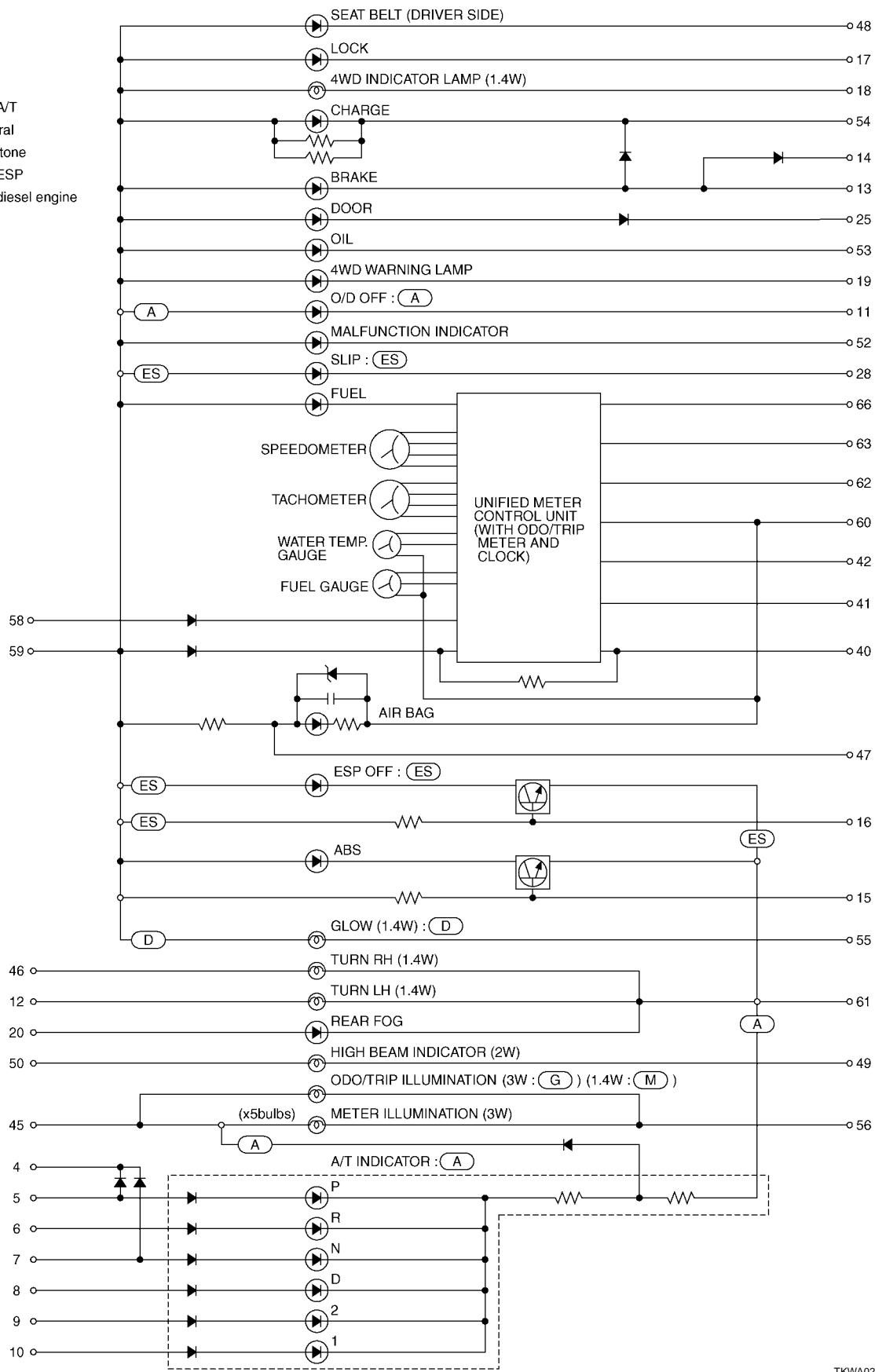
SKIA4407E

COMBINATION METERS (RHD MODELS)

Schematic

EKS0030K

- (A) : With A/T
- (G) : General
- (M) : Monotone
- (ES) : With ESP
- (D) : With diesel engine



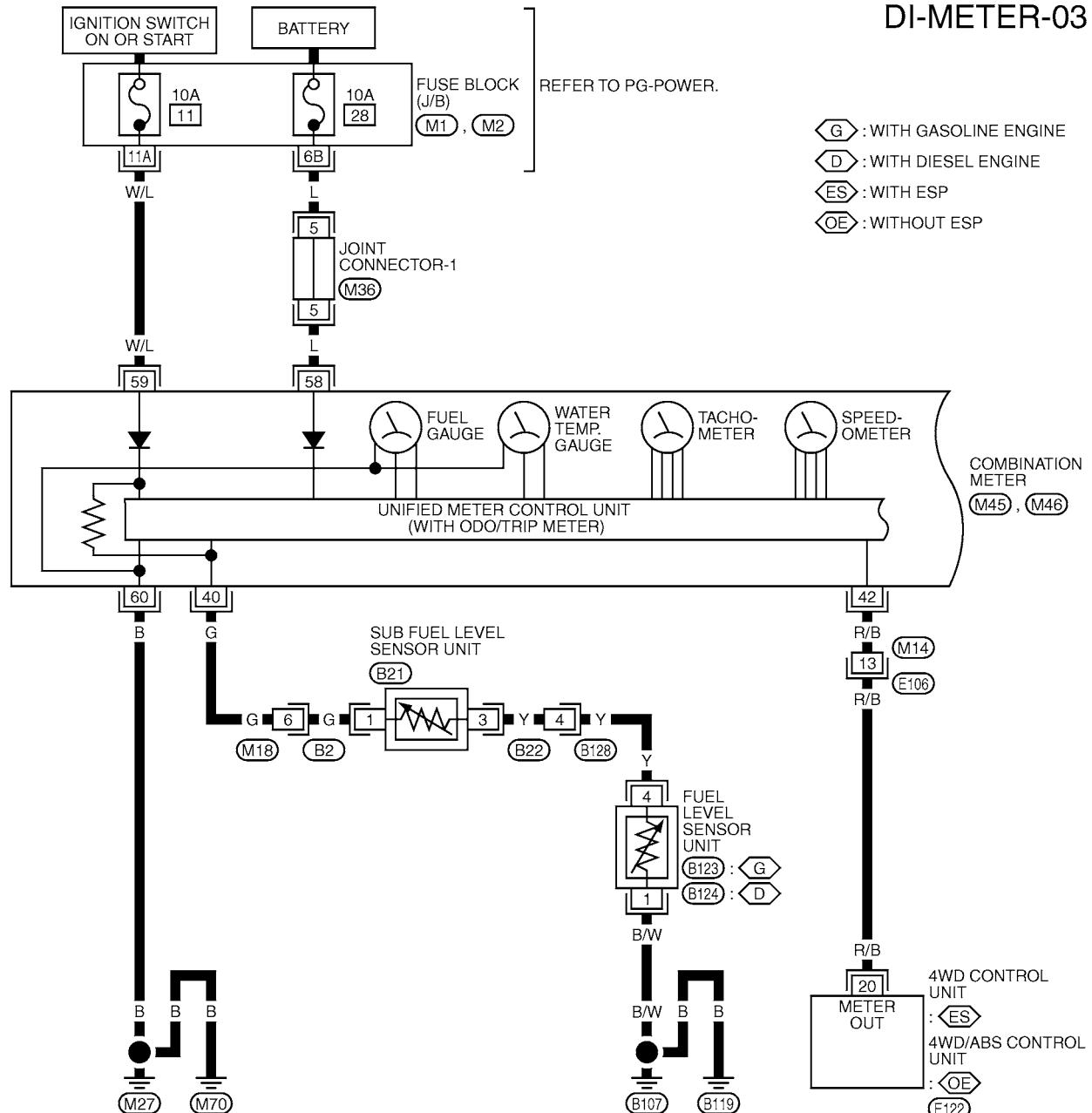
TKWA0248E

COMBINATION METERS (RHD MODELS)

Wiring Diagram — METER —

EKS0030L

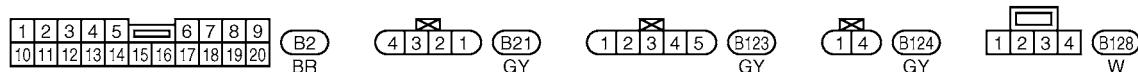
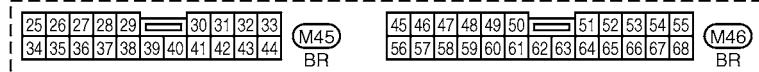
DI-METER-03



I REFER TO THE FOLLOWING.

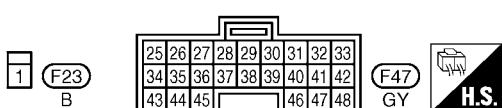
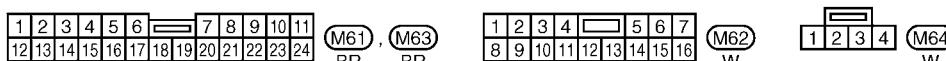
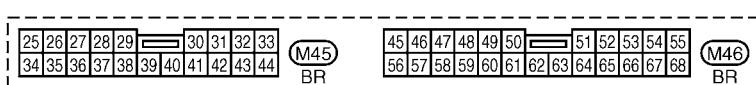
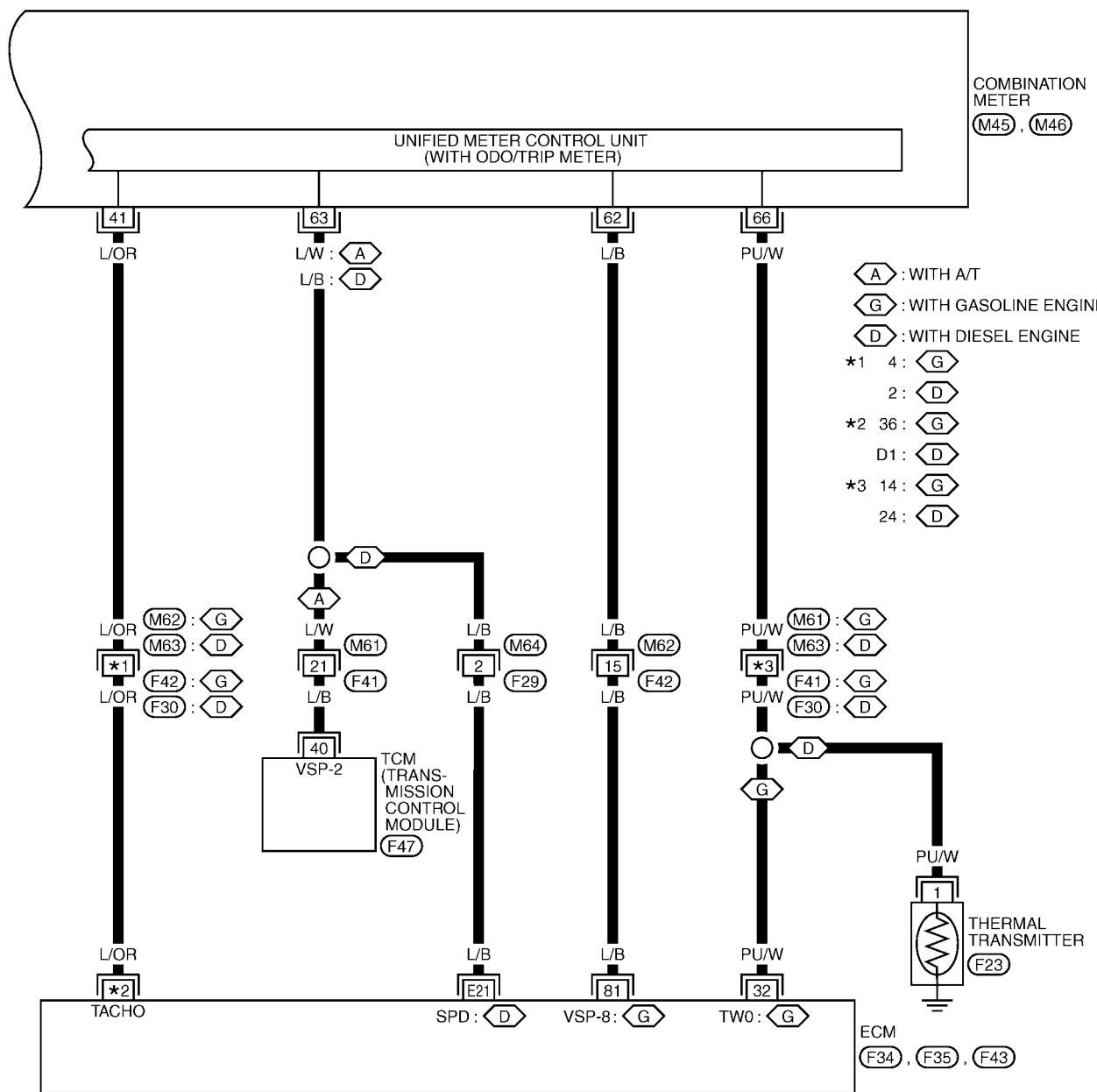
**M1 , M2 -FUSE BLOCK-
JUNCTION BOX (I/B)**

SECTION BOX (S/B)



COMBINATION METERS (RHD MODELS)

DI-METER-04



COMBINATION METERS (RHD MODELS)

Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode

EKS0030M

DIAGNOSIS FUNCTION

- Odo/trip meter segment can be checked in diagnosis mode.
- Meters/gauges can be checked in diagnosis mode.

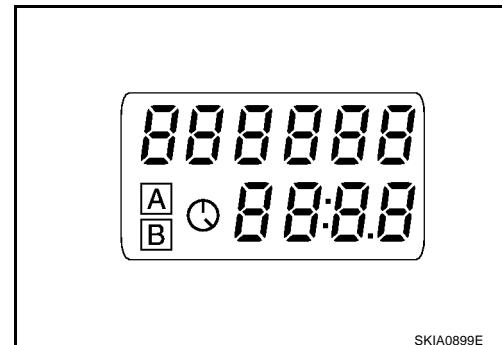
HOW TO ALTERNATE DIAGNOSIS MODE

1. Turn ignition switch to ON and change odo/trip meter to "TRIP A" or "TRIP B".
2. Turn ignition switch to OFF.
3. Turn ignition switch to ON when pushing odo/trip meter switch.
4. Confirm that trip meter indicates "000.0".
5. Push odo/trip meter switch more than three times within 5 seconds.
6. All odo/trip meter segments should be turned on.

NOTE:

If some segments are not turned on, unified meter control unit with odo/trip meter should be replaced.

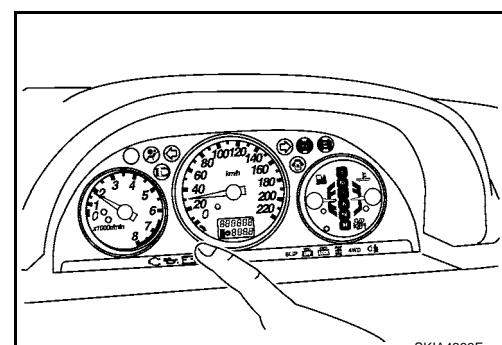
At this point, the unified control meter is turned to diagnosis mode.



7. Push odo/trip meter switch. Indication of each meter/gauge should be as shown left during pushing odo/trip meter switch if it is no malfunctioning.

NOTE:

It takes about a few seconds for indication of fuel gauge and water temperature gauge to become stable.



Trouble Diagnoses

PRELIMINARY CHECK

EKS0030N

1. CHECK WARNING LAMPS

1. Turn ignition switch ON.
2. Warning lamps should illuminate (seat belt warning or door warning etc.).

Do warning lamps illuminate?

Yes >> GO TO 2.

No >> Power supply and ground circuit check. Refer to [DI-32, "Power Supply and Ground Circuit Check"](#)

2. CHECK DIAGNOSIS MODE OPERATION

Preform diagnosis mode. Refer to [DI-30, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#).

Can diagnosis mode be activated?

Yes >> GO TO 3.

No >> Power supply and ground circuit check. Refer to [DI-32, "Power Supply and Ground Circuit Check"](#)

COMBINATION METERS (RHD MODELS)

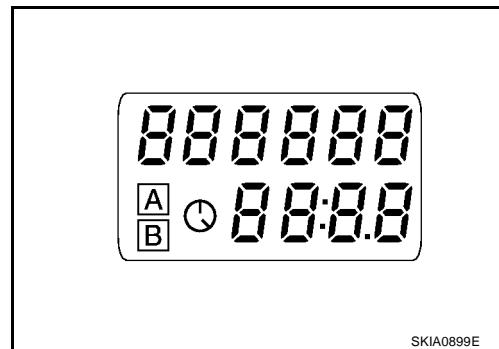
3. SEGMENTS CHECK

Check odo/trip meter segment.

Do all segments illuminate?

Yes >> GO TO 4.

No >> Replace combination meter.



4. FUEL WARNING LAMP ILLUMINATION CONFIRMATION

During fuel warning lamp check, confirm illumination of fuel warning lamp.

Condition of odo/trip meter switch	Fuel warning lamp
Pushed	Does not illuminate.
Released	Illuminates.

OK or NG

OK >> GO TO 5.

NG >> Replace the combination meter.

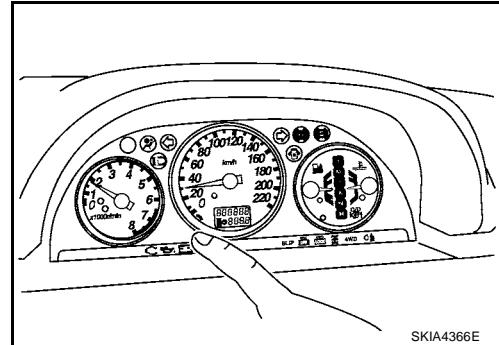
5. CHECK METER CIRCUIT

Check indication of each meter/gauge in diagnosis mode.

OK or NG

OK >> GO TO symptom chart.

NG >> Replace combination meter.



COMBINATION METERS (RHD MODELS)

SYMPTOM CHART

Symptom	Possible cause	Repair procedure
Fuel warning lamp is malfunctioning.		1. Check the sensor for malfunctioning meter/gauge. – Inspection/Engine Speed Signal (Refer to DI-33, "Inspection/Engine Speed Signal") – Inspection/Fuel Level Sensor Unit (Refer to DI-37, "Inspection/Fuel Level Sensor Unit") – Inspection/Water Temperature Gauge (Refer to DI-33, "Inspection/Water Temperature Gauge/Gasoline Engine Models" or DI-35, "Inspection/Water Temperature Gauge/Diesel Engine Models") 2. Replace combination meter
One of tachometer/fuel gauge/water temp. gauge is malfunctioning.	1. Sensor Signal – Engine revolution signal – Fuel gauge – Water temp gauge 2. Unified meter control unit	2. Replace combination meter
Speedometer and odo/trip meter is malfunctioning.	1. Sensor Signal – Vehicle speed signal 2. Unified meter control unit	1. Check the sensor for malfunctioning meter/gauge. – Inspection/Vehicle Speed Signal (Refer to DI-35, "Inspection/Vehicle speed signal") 2. Replace combination meter
Multiple meter/gauge are malfunctioning.	● Unified meter control unit	● Replace combination meter.

Power Supply and Ground Circuit Check

EKS00300

1. POWER SUPPLY CIRCUIT CHECK

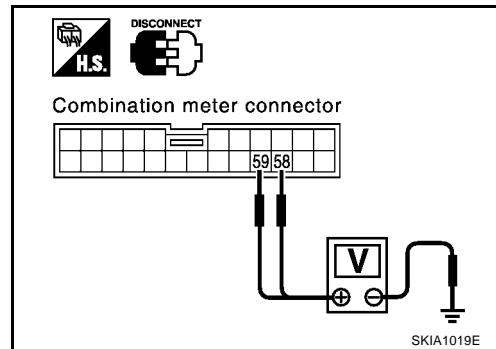
Terminals		Ignition switch position		
(+) (–)		OFF	ACC	ON
Connector	Terminal (wire color)			
M46	58 (L)	Ground	Battery voltage	Battery voltage
M46	59 (W/L)	Ground	0V	0V

OK or NG

OK >> GO TO 2.

NG >> Check the following:

- 10A fuse [No. 11, located in fuse block (J/B)]
- 10A fuse [No. 28, located in fuse block (J/B)]
- Harness for open or short between fuse and combination meter



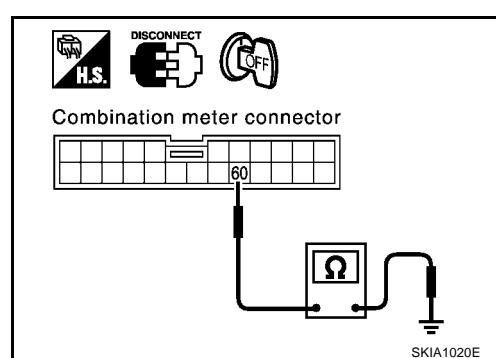
2. GROUND CIRCUIT CHECK

Terminals		Continuity	
(+)	(–)		
Connector	Terminal (wire color)		
M46	60 (B)	Ground	Yes

OK or NG

OK >> Inspection end.

NG >> Repair harness or connector.



COMBINATION METERS (RHD MODELS)

Inspection/Engine Speed Signal

EKS0030P

1. CHECK ECM OUTPUT

1. Start engine.
2. Check voltage between combination meter harness connector M45 terminals 41 (L/OR) and ground at idle and 2,000 rpm.

Higher rpm = Higher voltage

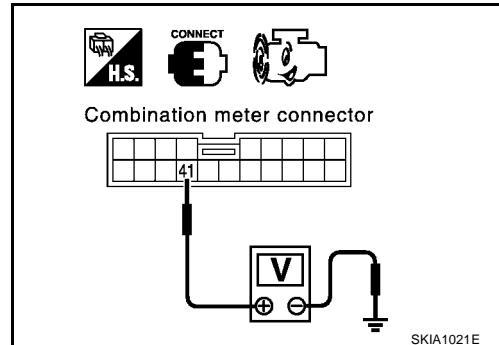
Lower rpm = Lower voltage

Voltage should change with rpm.

OK or NG

OK >> Engine speed signal is OK.

NG >> Check harness for open or short between ECM and combination meter.



Inspection/Water Temperature Gauge/Gasoline Engine Models

EKS0030Q

1. CHECK ECM OUT PUT

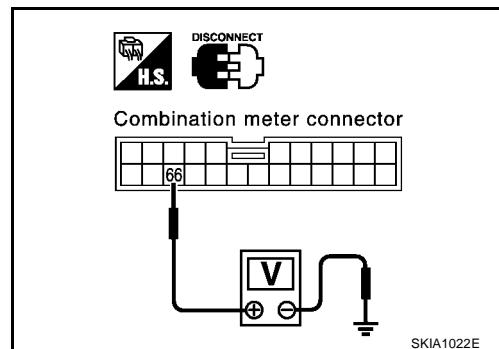
1. Disconnect combination meter
2. Check Voltage between combination meter harness connector M46 terminal 66 (PU/W) and ground.

Battery voltage should exist

OK or NG

OK >> GO TO 3.

NG >> GO TO 2.



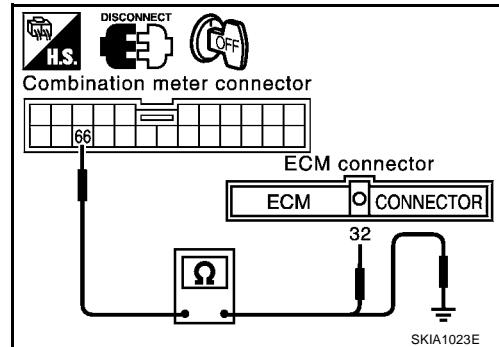
2. CHECK HARNESS FOR OPEN OR SHORT

1. Disconnect ECM connector.
2. Check continuity between combination meter harness connector M46 terminal 66 (PU/W) and ECM harness connector F43 terminal 32 (PU/W).

Continuity should exist

3. Check continuity between combination meter harness connector M46 terminal 66 (PU/W) and ground.

Continuity should not exist



OK or NG

OK >> GO TO 3.

NG >> Repair harness or connector.

COMBINATION METERS (RHD MODELS)

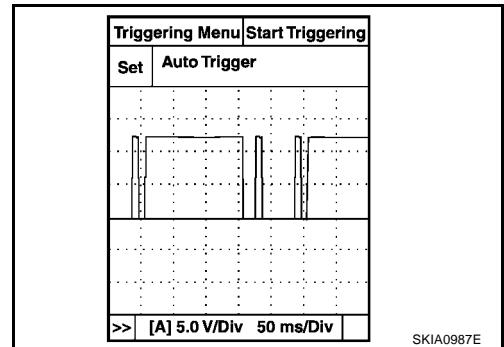
3. CHECK WATER TEMPERATURE OUTPUT SIGNAL

1. Connect combination meter connector and ECM connector.
2. Start engine.
3. Check output signal between combination meter harness connector M46 terminal 66(PU/W) and ground. (Use "SIMPLE OSCILLOSCOPE" in "SUB MODE" with CONSULT-II.)

66 (PU/W) – ground

OK or NG

OK >> Replace combination meter.
NG >> Check ECM.



COMBINATION METERS (RHD MODELS)

Inspection/Water Temperature Gauge/Diesel Engine Models

EKS0030R

1. CHECK THERMAL TRANSMITTER

Refer to [DI-42, "THERMAL TRANSMITTER CHECK"](#).

OK or NG

OK >> GO TO 2.

NG >> Replace thermal transmitter.

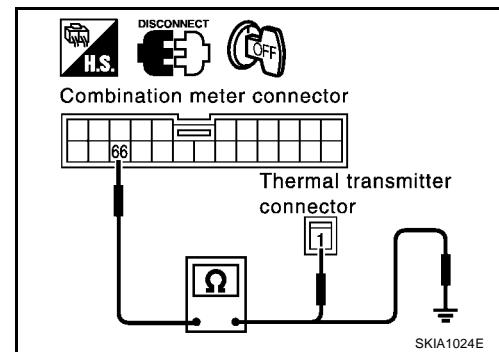
2. CHECK HARNESS FOR OPEN OR SHORT

1. Disconnect combination meter connector and thermal transmitter connector.
2. Check continuity between combination meter harness connector M46 terminal 66 (PU/W) and thermal transmitter harness connector F23 terminal 1 (PU/W).

Continuity should exist.

3. Check continuity between combination meter harness connector M46 terminal 66 (PU/W) and ground.

Continuity should not exist.



OK or NG

OK >> Thermal transmitter is OK.

NG >> Replace harness or connector.

Inspection/Vehicle speed signal

EKS0030S

1. CHECK ABS WARNING LAMP

- Turn the ignition switch ON, then ABS warning lamp turn ON.

ABS warning lamp should illuminate.

OK or NG

OK >> Check 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).
NG >> GO TO 2.

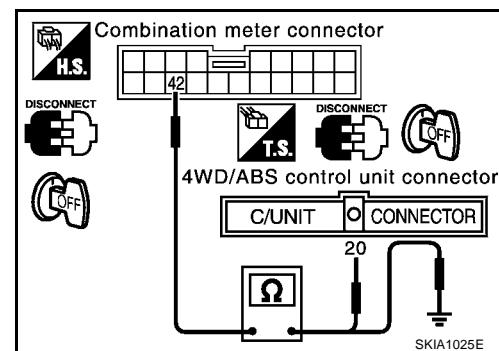
2. CHECK HARNESS FOR OPEN OR SHORT

1. Disconnect combination meter connector and 4WD/ABS control unit (without ESP) or 4WD control unit (with ESP) connector.
2. Check continuity between combination meter harness connector M45 terminal 42 (R/B) and 4WD/ABS control unit (without ESP) or 4WD control unit (with ESP) harness connector E122 terminal 20 (R/B).

Continuity should exist.

3. Check continuity between combination meter harness connector M45 terminal 42 (R/B) and ground.

Continuity should not exist.



OK or NG

OK >> GO TO 3.

NG >> Replace combination meter.

COMBINATION METERS (RHD MODELS)

3. CHECK 4WD/ABS CONTROL UNIT OUTPUT

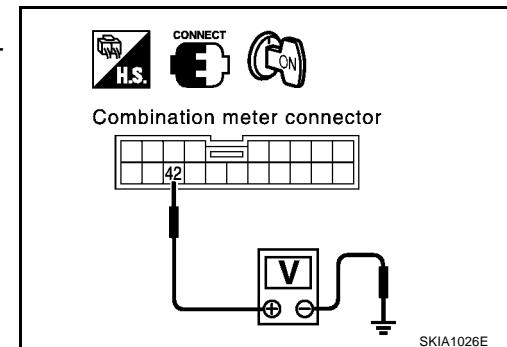
1. Connect combination meter connector.
2. Check voltage between combination meter harness connector M45 terminal 42 (R/B) and ground.

Approx. 9V

OK or NG

OK >> GO TO 4.

NG >> Replace combination meter.



4. CHECK VEHICLE SPEED INPUT SIGNAL

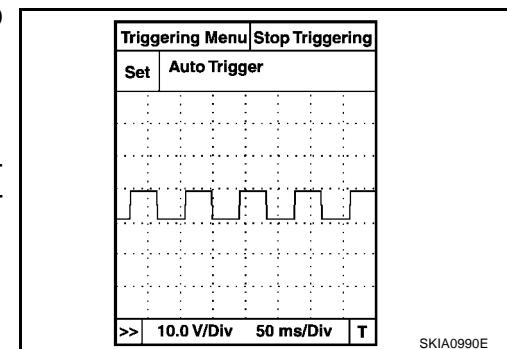
1. Connect 4WD/ABS control unit connector (without ESP) or 4WD control unit (with ESP).
2. Lift up drive wheels.
3. Start engine.
4. Check voltage signal between combination meter harness connector M45 terminal 42 (R/B) and ground (Use "SIMPLE OSCILLOSCOPE" in "SUB MODE" with CONSULT-II.).

42 (R/B) – ground

OK or NG

OK >> Replace combination meter.

NG >> Check 4WD control unit (with ESP) or 4WD/ABS control unit (without ESP).



Inspection/Fuel Level Sensor Unit

FUEL LEVEL SENSOR UNIT

EKS0030T

The following symptoms do not indicate a malfunction.

- Depending on vehicle posture or driving circumstance, the fuel level in the tank varies, and the pointer may fluctuate.
- If the vehicle is fueled with the ignition switch ON, the pointer will move slowly.

LOW-FUEL WARNING LAMP

Depending on vehicle posture or driving circumstance, the fuel level in the tank varies, and the warning lamp ON timing may be changed.

1. DIAGNOSIS MODE INSPECTION

Preform the combination meter diagnosis mode. Refer to [DI-30, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#).

OK or NG

OK >> GO TO 2.
NG >> Replace combination meter.

2. HARNESS CONNECTOR INSPECTION

- Turn the ignition switch OFF.
- Check combination meter, fuel level sensor unit and terminals (meter-side, module-side, and harness-side) for poor connection and bend.

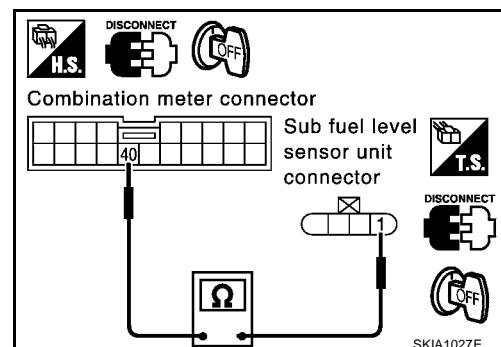
OK or NG

OK >> GO TO 3.
NG >> Repair terminals or connectors.

3. CHECK FUEL LEVEL SENSOR FOR OPEN CIRCUIT

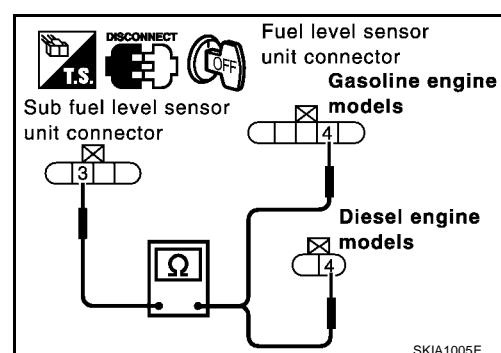
- Disconnect combination meter connector, fuel level sensor unit connector and sub fuel level sensor unit connector.
- Check the following.
 - Continuity between combination meter harness connector M45 terminal 40 (G) and sub fuel level sensor unit harness connector B21 terminal 1 (G).

Continuity should exist.



- Continuity between sub fuel level sensor unit harness connector B21 terminal 3 (Y) and fuel level sensor unit harness connector B123 (Gasoline engine models) or B124 (Diesel engine models) terminal 4 (Y).

Continuity should exist.



OK or NG

OK >> GO TO 4.
NG >> Repair harnesses or connectors.

COMBINATION METERS (RHD MODELS)

4. CHECK FUEL LEVEL SENSOR SHORT CIRCUIT

1. Checking the following.
 - Continuity between combination meter harness connector M45 terminal 40 (G) and ground.

Continuity should not exist.

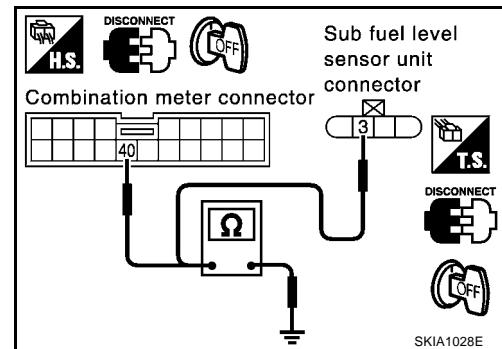
- Continuity between sub fuel level sensor harness connector B21 terminal 3 (Y) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 5.

NG >> Repair harnesses or connectors.



5. CHECK FUEL LEVEL SENSOR GROUND CIRCUIT

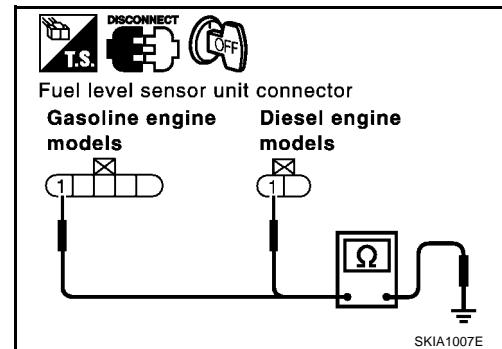
Check continuity between fuel level sensor unit harness connector B123 (Gasoline engine models) or B124 (Diesel engine models) terminal 1 (B/W) and ground.

Continuity should exist.

OK or NG

OK >> GO TO 6.

NG >> Repair harnesses or connectors.



6. FUEL LEVEL SENSOR UNIT INSPECTION

Check the components. Refer to [DI-41, "Electrical Components Inspection"](#) .

OK or NG

OK >> GO TO 7.

NG >> Replace fuel level sensor unit or sub fuel sensor unit.

7. CHECK INSTALLATION CONDITION

Check fuel level sensor unit installation, and check whether the float arm interferes or binds with any components inside the arm.

OK or NG

OK >> Replace combination meter.

NG >> Install fuel level sensor unit or sub fuel sensor unit properly.

The Fuel Gauge Pointer Fluctuates-Indicator Wrong Value-or Varies.

EKS0030U

1. CHECK THE FUEL GAUGE POINTER FOR FLUCTUATION

Does the indication value fluctuate during driving or before/after stop?

Does the indication value vary?

Yes >> The pointer fluctuation may be caused by fuel level change in the fuel tank.

No >> Ask the customer about the situation when the symptom occurs in detail, and Preform the trouble diagnosis.

COMBINATION METERS (RHD MODELS)

The Fuel Gauge Does Not Move to Full-position.

EKS0030V

1. QUESTION 1

Does it take a long time for the pointer to move to Full-position?

Yes or No

Yes >> GO TO 2.
No >> GO TO 3.

A

B

C

D

E

F

G

H

I

J

2. QUESTION 2

Was the vehicle fueled with the ignition switch ON?

Yes or No

Yes >> Be sure to fuel the vehicle with the ignition switch OFF. Otherwise it will take a long time to move to Full-position because of the characteristic of the fuel gauge.
No >> GO TO 3.

K

3. QUESTION 3

Is the floor or the vehicle inclined?

Yes or No

Yes >> It may not be filled fully.
No >> GO TO 4.

L

4. QUESTION 4

During driving, does the fuel gauge pointer move gradually toward E-position?

Yes or No

Yes >> Check the components. Refer to [DI-41, "Electrical Components Inspection"](#) .
No >> The float arm may interfere or bind with any of the components in the fuel tank.

M

The Fuel Gauge Does Not Work.

EKS0030W

1. HARNESS CONNECTOR INSPECTION

1. Turn the ignition switch OFF.
2. Check combination meter, fuel level sensor unit, sub fuel level sensor unit and terminals (meter-side, module-side, and harness-side) for poor connection and bend.

N

OK or NG

OK >> GO TO 2.
NG >> Repair connector.

O

2. CHECK INSTALLATION CONDITION

P

Check fuel level sensor unit or sub fuel level sensor unit installation (refer to [FL-4, "FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY"](#) for QR engine models or [FL-17, "FUEL LEVEL SENSOR UNIT"](#) for YD engine models, and check whether the float arm interferes or binds with any components inside the arm.

Q

OK or NG

OK >> Fuel level sensor unit is OK.
NG >> Check fuel level sensor unit or sub fuel level sensor unit. Refer to [DI-41, "Electrical Components Inspection"](#) .

Low Fuel Warning Lamp Illuminate or Not Illuminate

EKS0030X

1. DIAGNOSIS MODE INSPECTION

Preform combination meter diagnosis mode. Refer to [DI-30, "Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode"](#) .

OK or NG

OK >> Check fuel level sensor unit or sub fuel level sensor unit. Refer to [DI-41, "Electrical Components Inspection"](#) .

NG >> Replace combination meter.

COMBINATION METERS (RHD MODELS)

Electrical Components Inspection

FUEL LEVEL SENSOR UNIT CHECK / GASOLINE ENGINE MODELS

EKS0031V

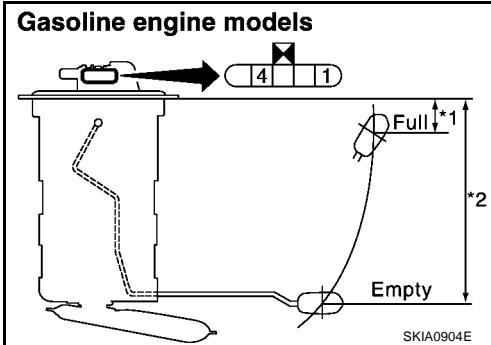
For removal, refer to [FL-4, "FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY"](#) for Gasoline engine models.

Fuel level sensor unit

Check the resistance between terminals 1 and 4.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
4	1	*1	Full	24 (2.36)	Approx. 4 - 6
		*2	Empty	167 (6.57)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.

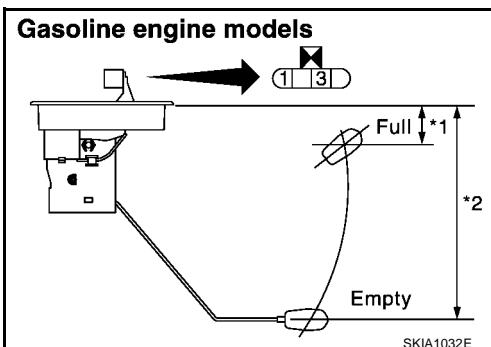


Sub fuel level sensor unit

Check the resistance between terminals 1 and 3.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
1	3	*1	Full	35 (1.50)	Approx. 0.8 - 1
		*2	Empty	186 (6.38)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.



FUEL LEVEL SENSOR UNIT CHECK / DIESEL ENGINE MODELS

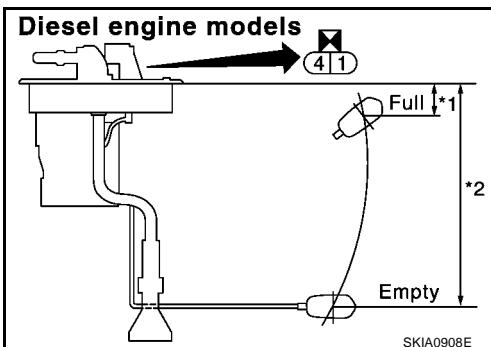
For removal, refer to [FL-17, "FUEL LEVEL SENSOR UNIT"](#) for Diesel engine models.

Fuel level sensor unit

Check the resistance between terminals 1 and 4.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
4	1	*1	Full	24 (2.38)	Approx. 4 - 6
		*2	Empty	170 (6.46)	Approx. 79 - 84

*1 and *2: When float rod is in contact with stopper.

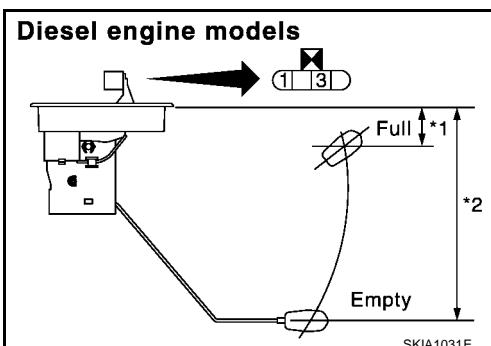


Sub fuel level sensor unit

Check the resistance between terminals 1 and 3.

Ohmmeter		Float position mm (in)			Resistance value Ω
(+)	(-)				
1	3	*1	Full	35 (1.50)	Approx. 0.8 - 1.0
		*2	Empty	186 (6.38)	Approx. 38 - 42

*1 and *2: When float rod is in contact with stopper.

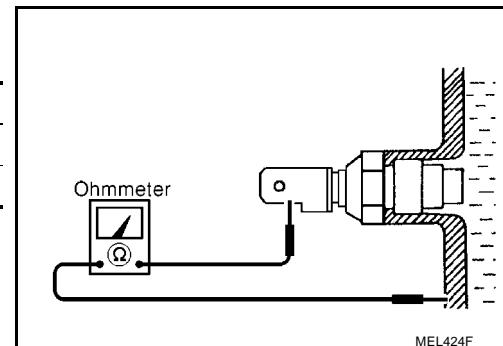


COMBINATION METERS (RHD MODELS)

THERMAL TRANSMITTER CHECK

Check the resistance between the terminals of thermal transmitter and body ground.

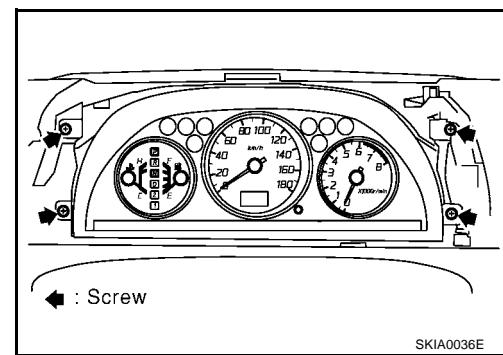
Water temperature	Resistance
60°C (140°F)	Approx. 170 - 210Ω
100°C (212°F)	Approx. 47 - 53Ω



MEL424F

Removal and Installation for Combination Meter

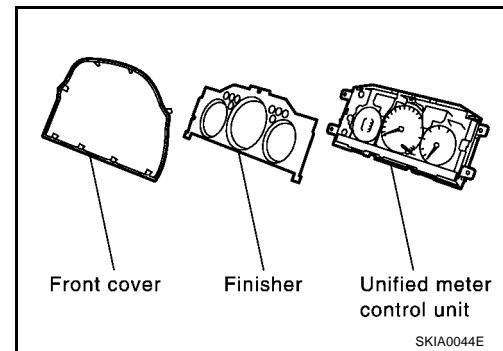
1. Remove the cluster lid A. Refer to [IP-3, "INSTRUMENT PANEL ASSEMBLY"](#).
2. Remove the screws (4), and pull out combination meter.
3. Disconnect connectors and remove combination meter.



SKIA0036E

Disassembly and Assembly for Combination Meter

1. Disengaged the tabs(8) to separate front cover.
2. Remove finisher.
3. Remove bulbs.



SKIA0044E

WARNING LAMPS

WARNING LAMPS

Schematic

PFP:24814

EKS002HE

A

B

C

D

E

F

G

H

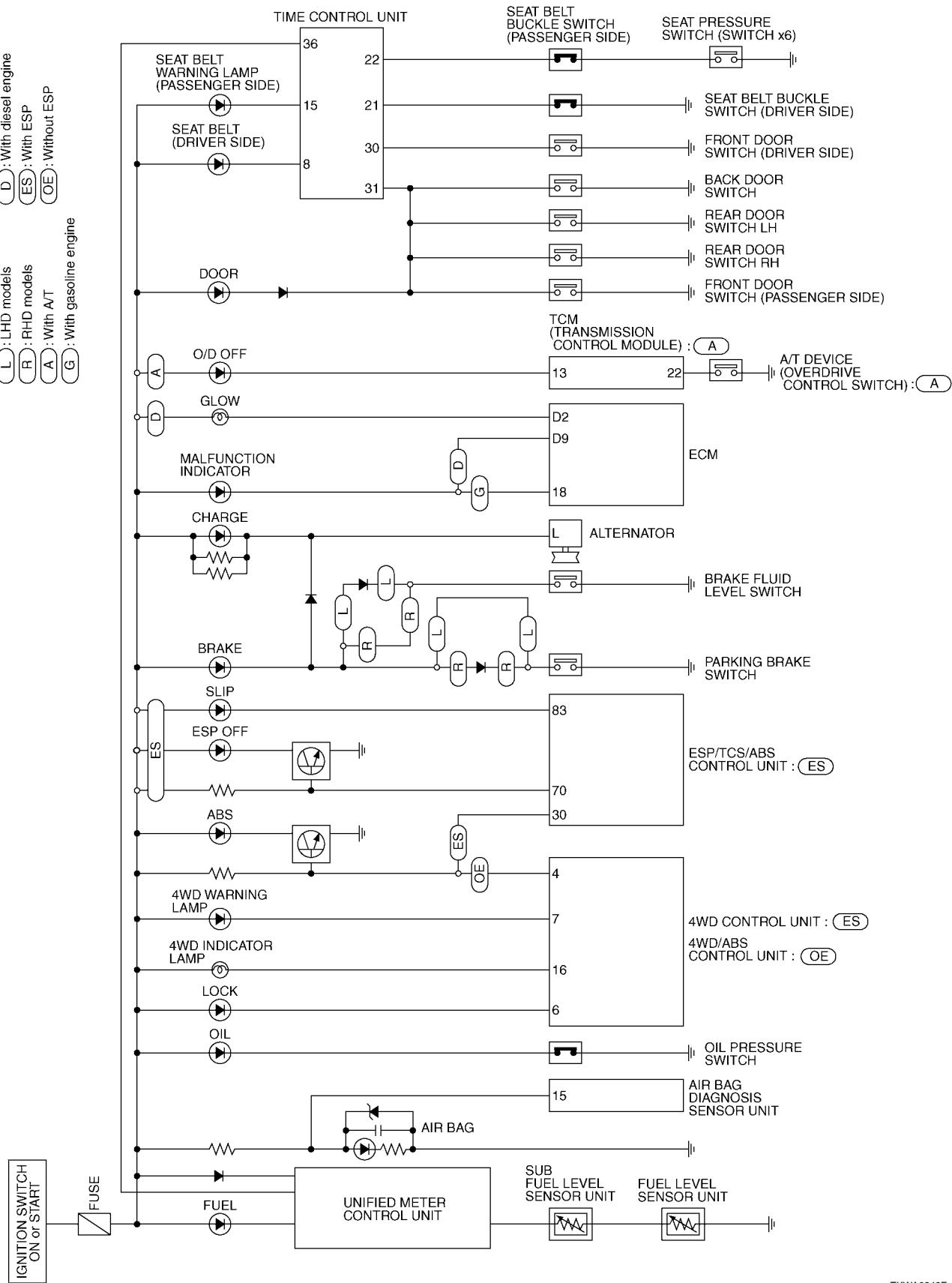
J

DI

L

M

- (D) : LHD models
- (ES) : RHD models
- (A) : With A/T
- (OE) : Without ESP
- (G) : With gasoline engine

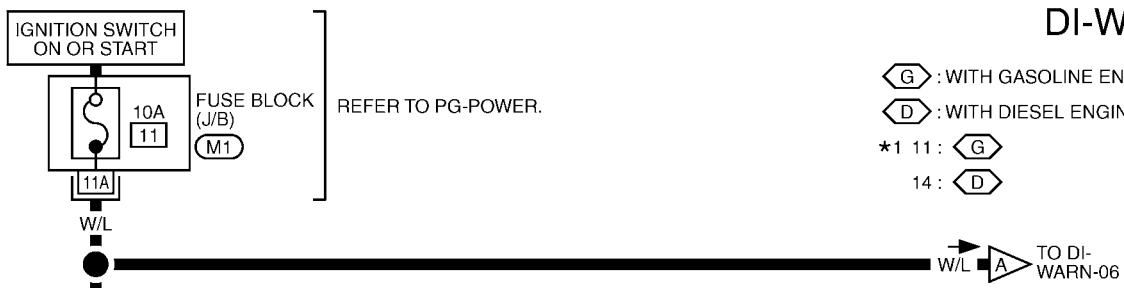


TKWA0249E

WARNING LAMPS

Wiring Diagram — WARN —/ LHD Models

EKS002HH

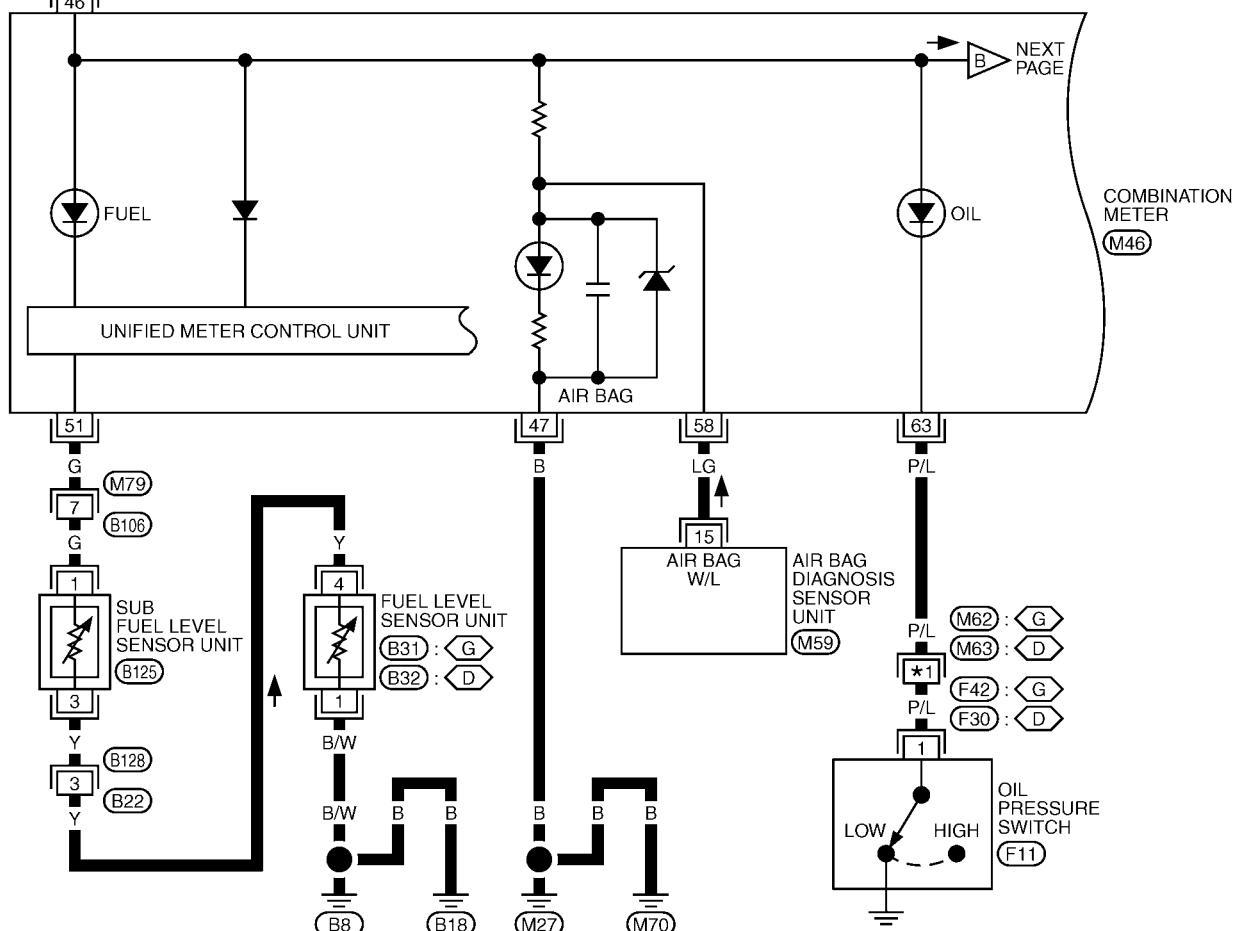


REFER TO PG-POWER.

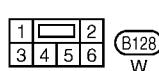
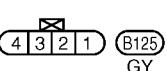
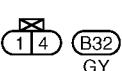
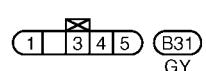
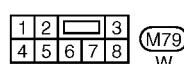
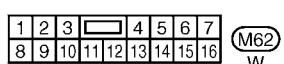
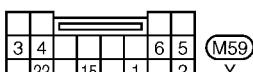
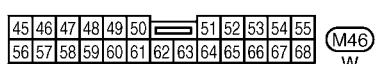
DI-WARN-01

◆ G : WITH GASOLINE ENGINE
 ◆ D : WITH DIESEL ENGINE

*1 11 : ◆ G
 14 : ◆ D



REFER TO THE FOLLOWING.
M1 -FUSE BLOCK-JUNCTION
BOX (JB)

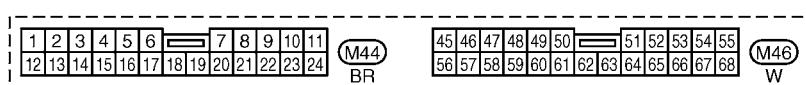
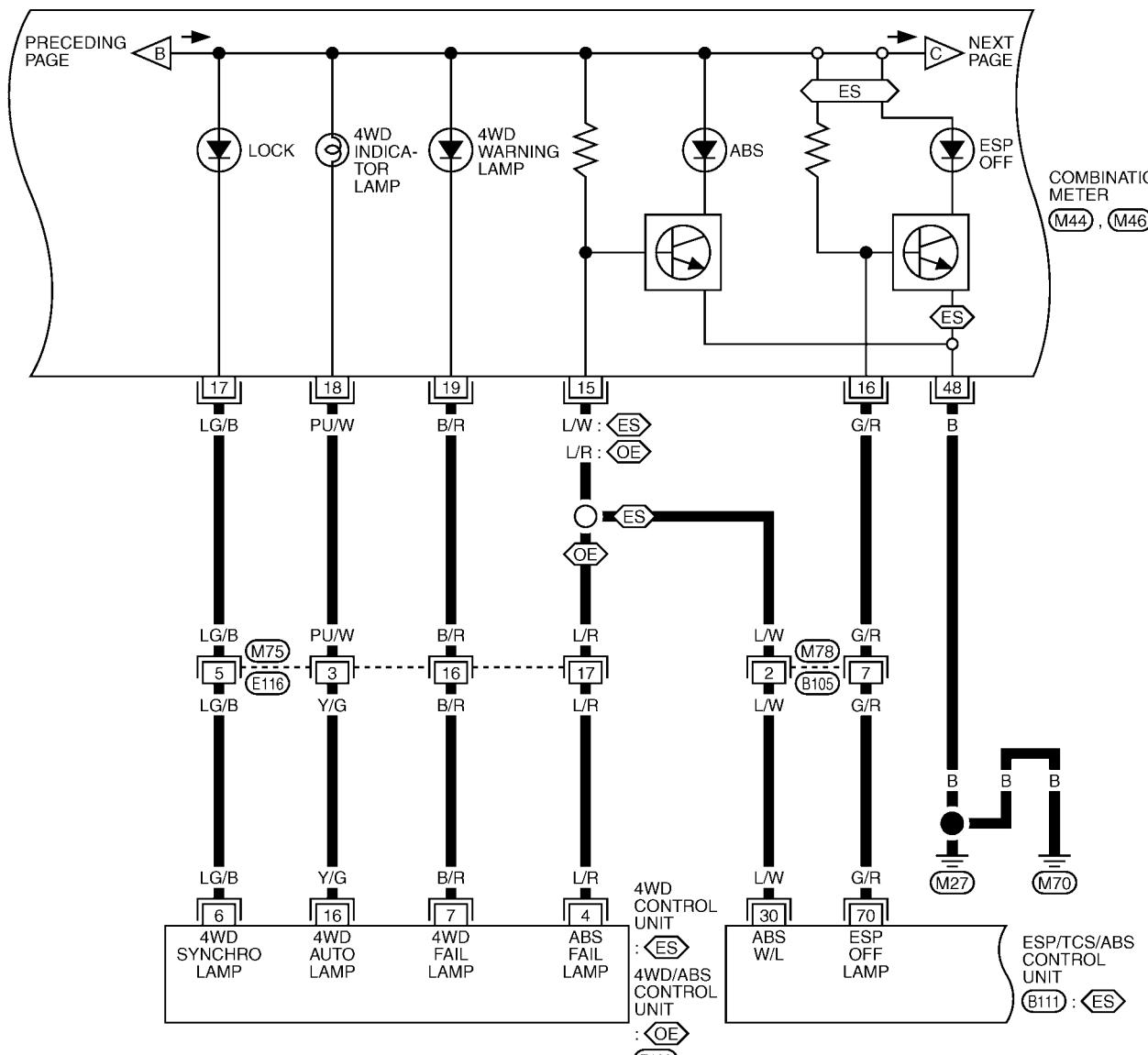


WARNING LAMPS

DI-WARN-02

ES : WITH ESP

OE : WITHOUT ESP

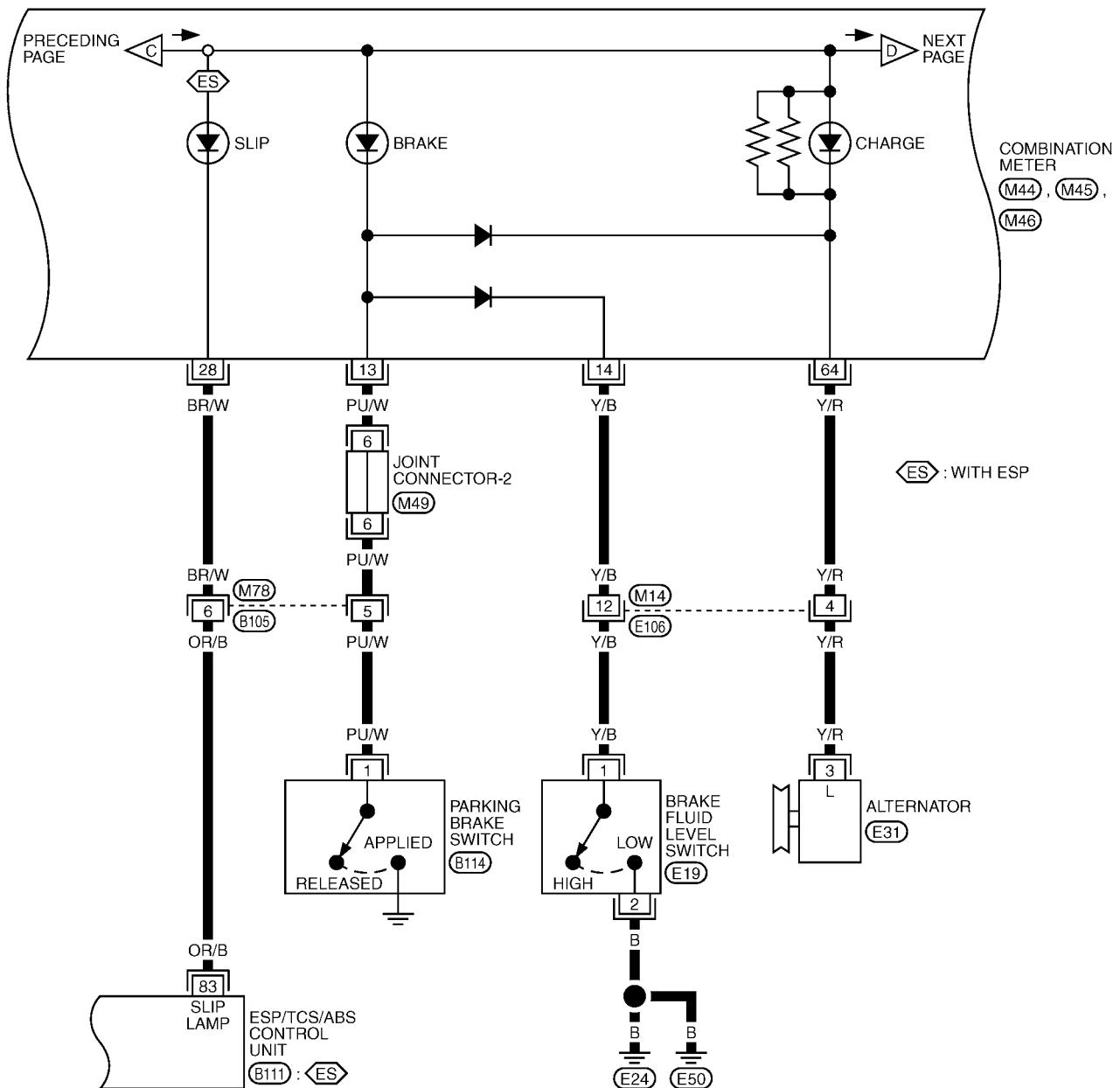


REFER TO THE FOLLOWING.
E122 , **B111** -ELECTRICAL
UNITS



WARNING LAMPS

DI-WARN-03



1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

25	26	27	28	29		30	31	32	33	
34	35	36	37	38	39	40	41	42	43	44

REFER TO THE FOLLOWING.
B111 - ELECTRICAL UNITS

45	46	47	48	49	50		51	52	53	54	55	M46
56	57	58	59	60	61	62	63	64	65	66	67	68

1	1	1	1	2	2	2	3	3	3
4	4	4	4	5	5	5	6	6	6

1	2		3	4	5
6	7	8	9	10	11

19
20

3 4 E31
CV

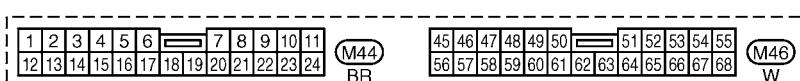
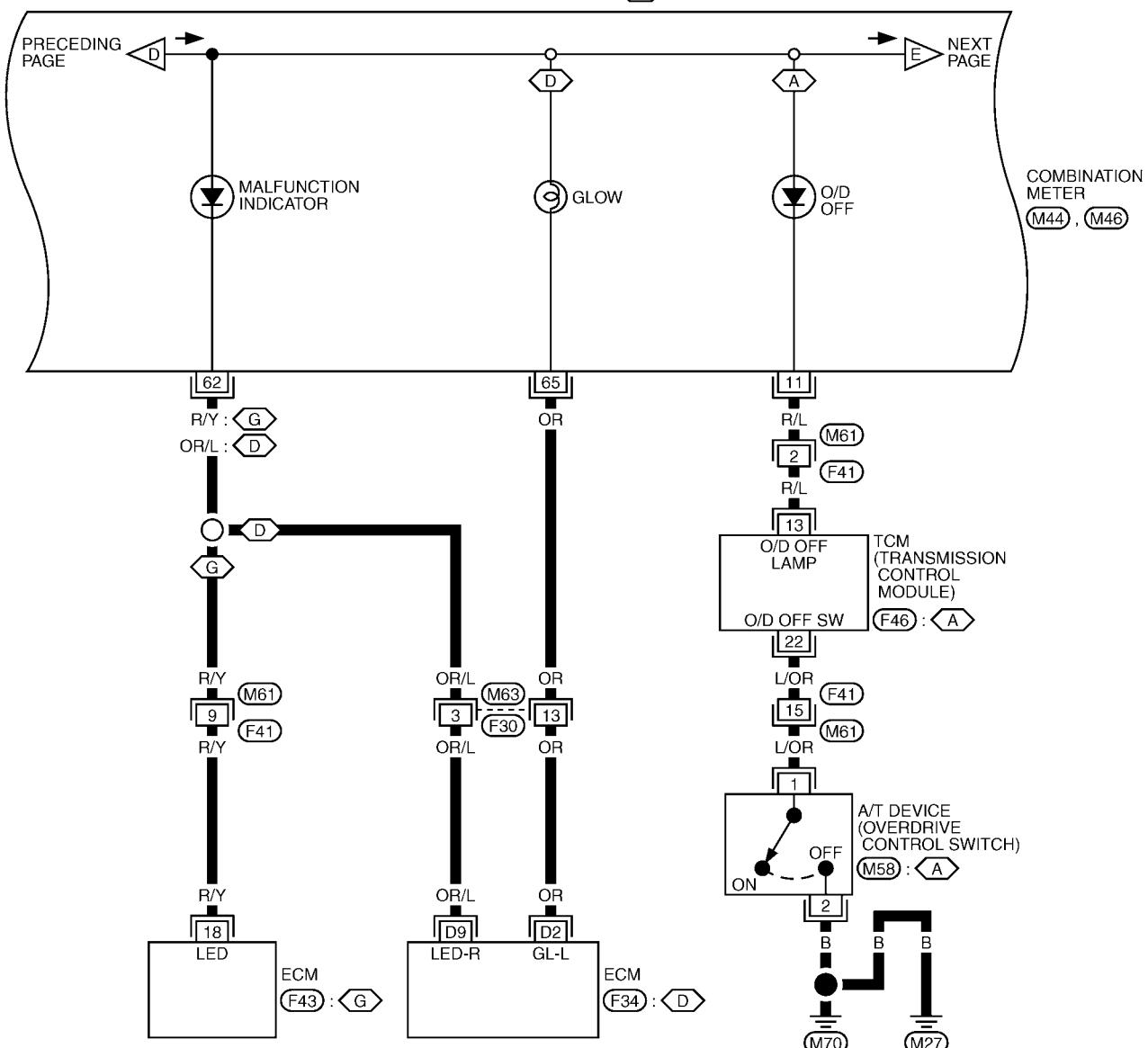
1	2	3	<u> </u>	4	5	6	7
8	9	10	11	12	13	14	15

1 B114
B

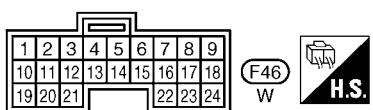
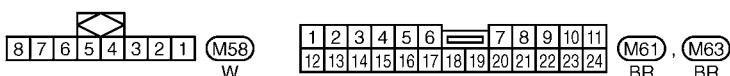
WARNING LAMPS

DI-WARN-04

◊ A : WITH A/T
 ◊ G : WITH GASOLINE ENGINE
 ◊ D : WITH DIESEL ENGINE



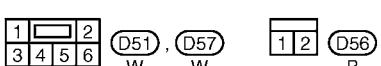
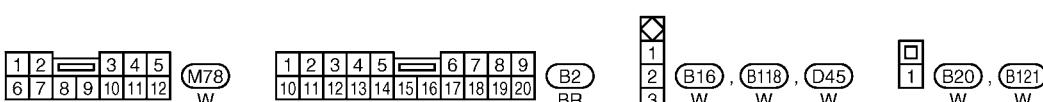
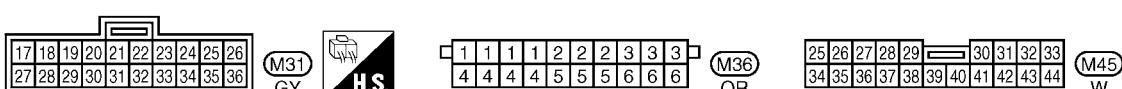
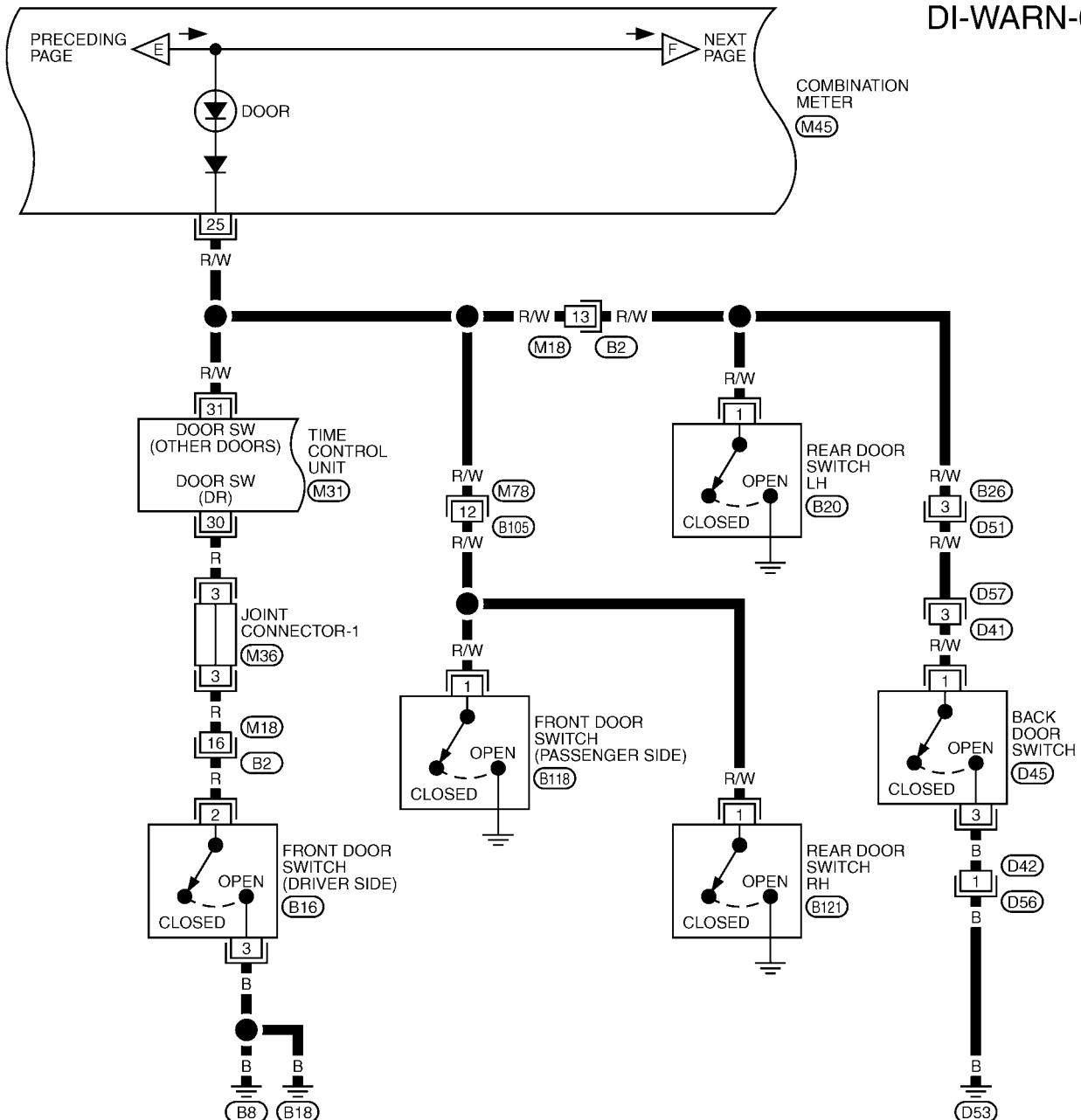
REFER TO THE FOLLOWING.
(F34), (F43) -ELECTRICAL UNITS



TKWA0253E

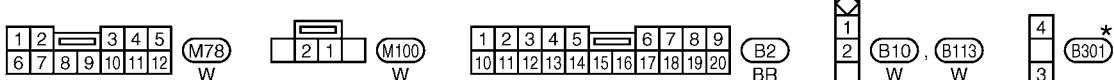
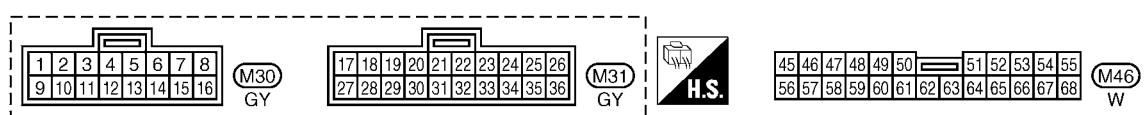
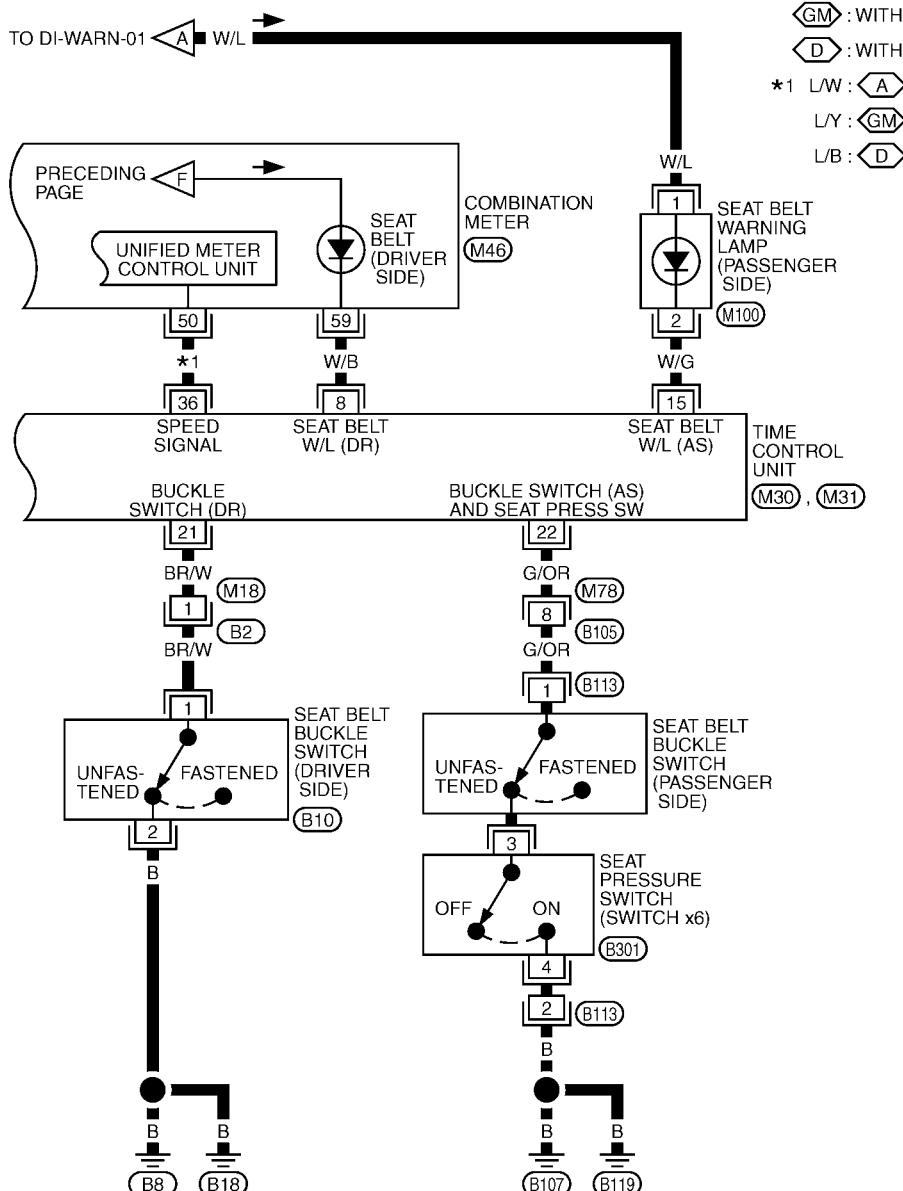
WARNING LAMPS

DI-WARN-05



WARNING LAMPS

DI-WARN-06



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

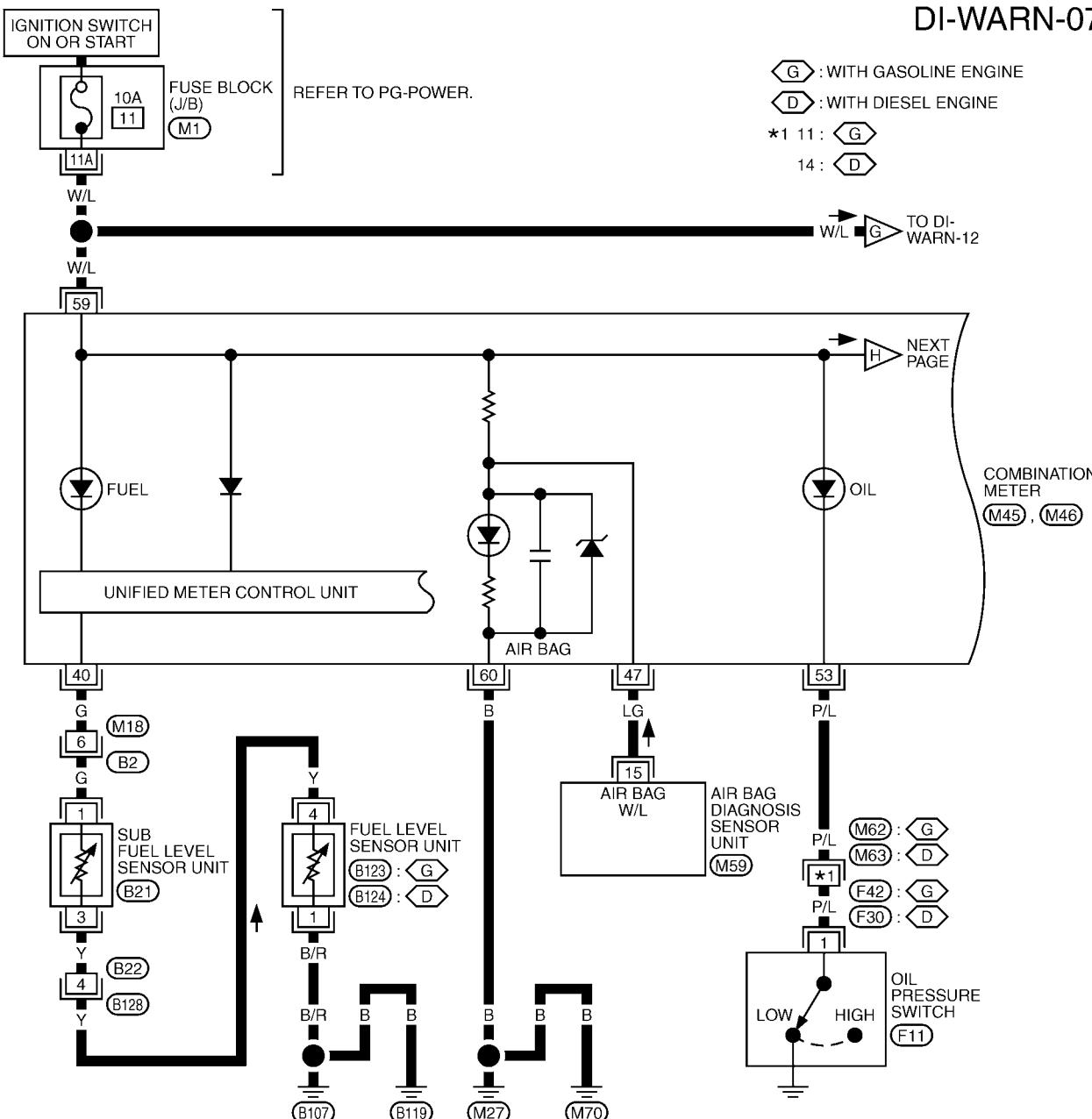
TKWA0255E

WARNING LAMPS

Wiring Diagram — WARN — / RHD Models

EKS0031U

DI-WARN-07

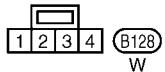
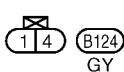
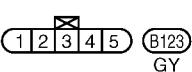
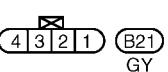
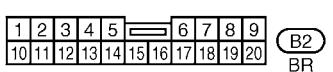
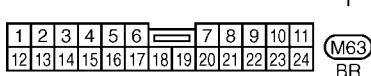
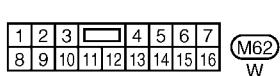
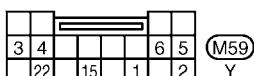


25 26 27 28 29 (M45) BR

30 31 32 33 (M46) BR

34 35 36 37 38 39 40 41 42 43 44 (B107) (B119) (M27) (M70)

REFER TO THE FOLLOWING.
(M1) -FUSE BLOCK-JUNCTION BOX (J/B)



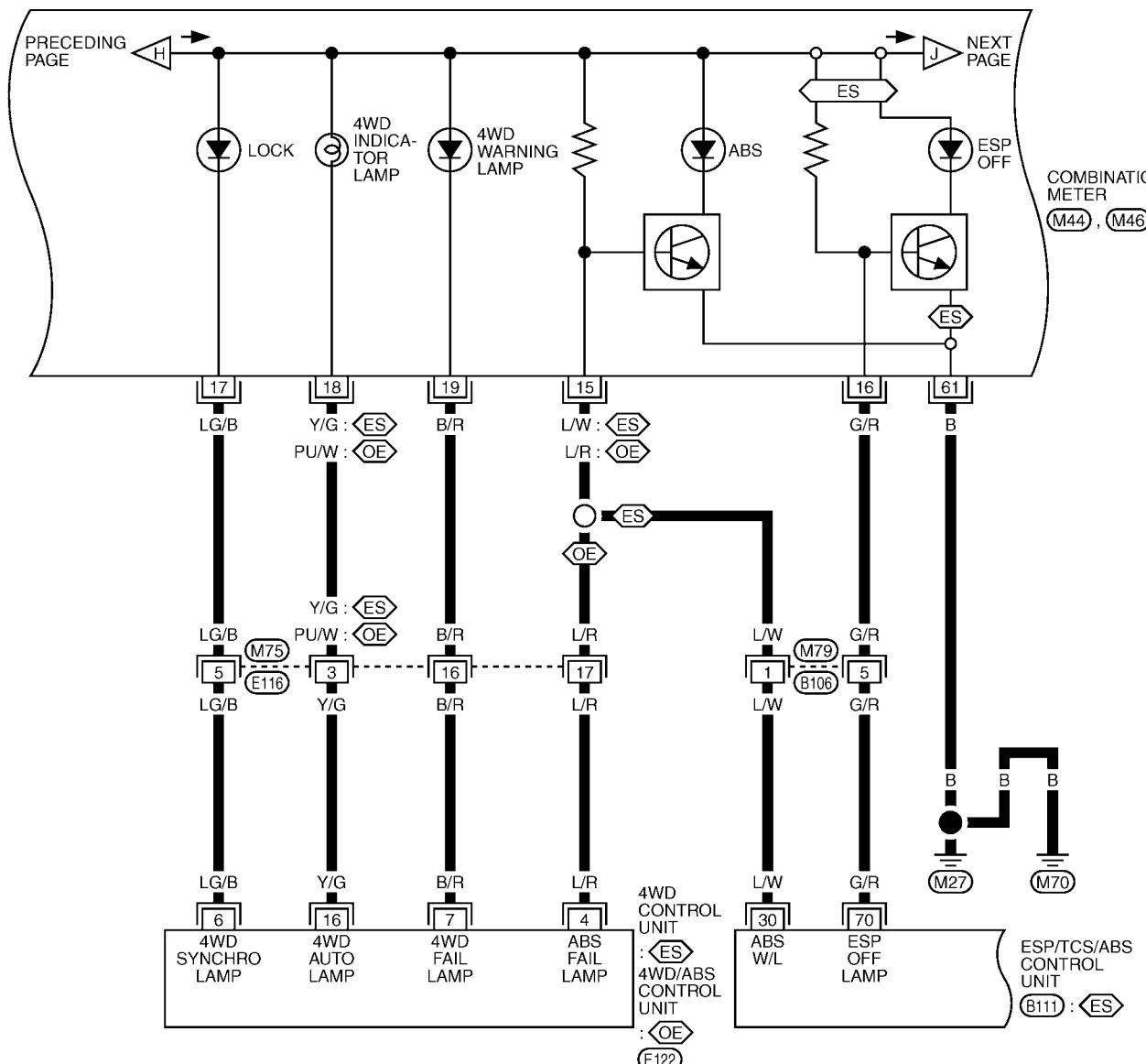
TKWA0727E

WARNING LAMPS

DI-WARN-08

ES : WITH ESP

OE : WITHOUT ESP



1	2	3	4	5	6		7	8	9	10	11	M44
12	13	14	15	16	17	18	19	20	21	22	23	24

W

45	46	47	48	49	50		51	52	53	54	55	M46
56	57	58	59	60	61	62	63	64	65	66	67	68

BR

REFER TO THE FOLLOWING.
E122 , **B111** -ELECTRICAL
UNITS

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20							

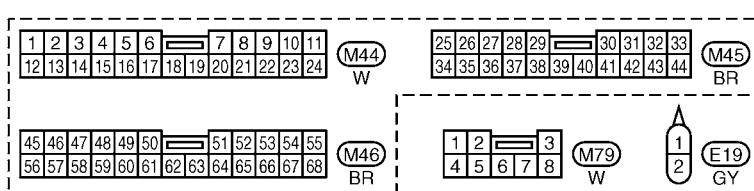
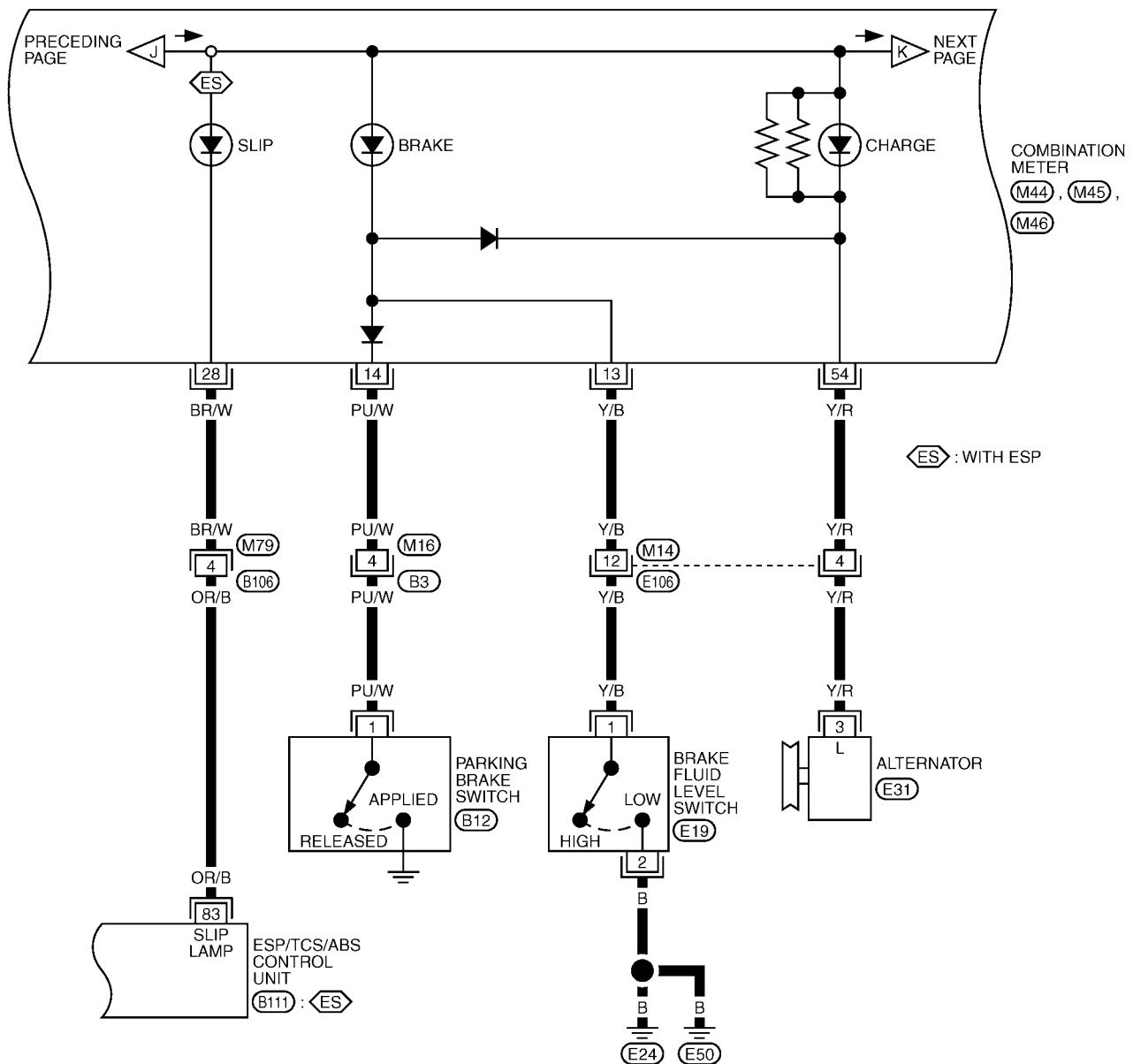
M75
BR

1	2	3
4	5	6
7	8	

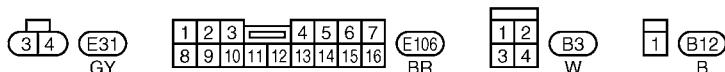
M79
W

WARNING LAMPS

DI-WARN-09



REFER TO THE FOLLOWING.
(B111) -ELECTRICAL UNITS

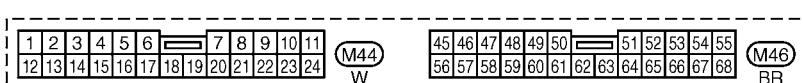
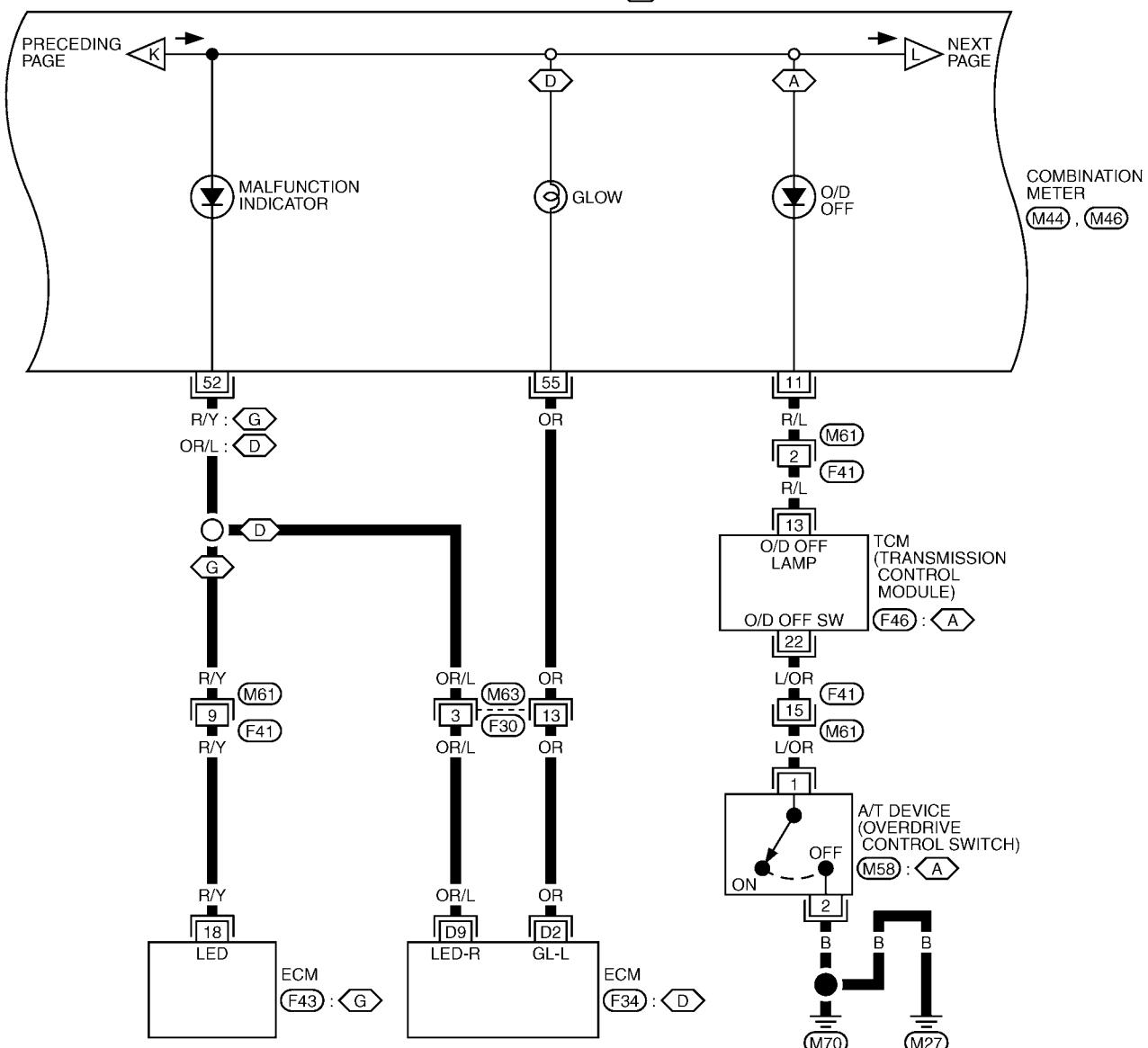


TKWA0258E

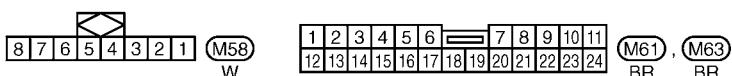
WARNING LAMPS

DI-WARN-10

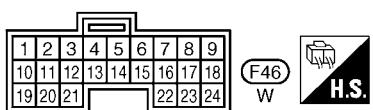
◊ A : WITH A/T
 ◊ G : WITH GASOLINE ENGINE
 ◊ D : WITH DIESEL ENGINE



REFER TO THE FOLLOWING.
 (F34), (F43) -ELECTRICAL UNITS

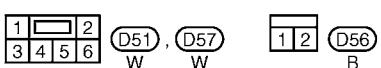
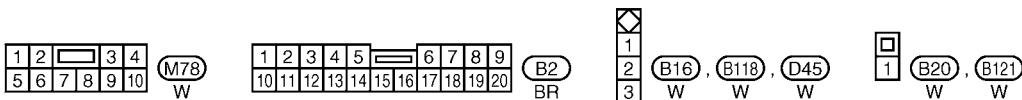
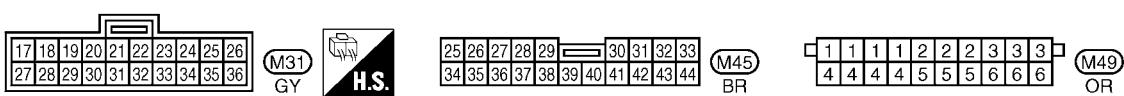
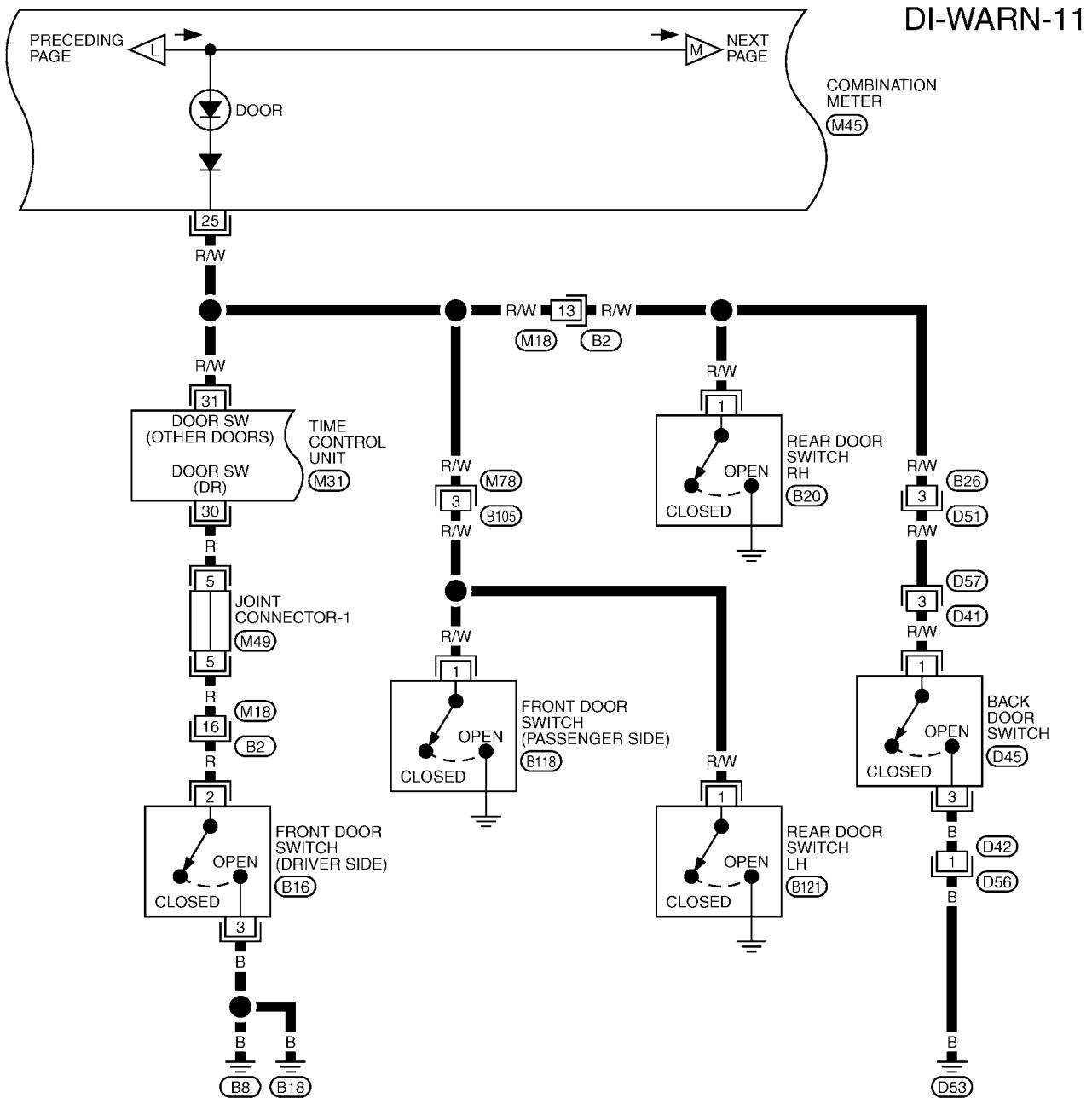


(M61), (M63)



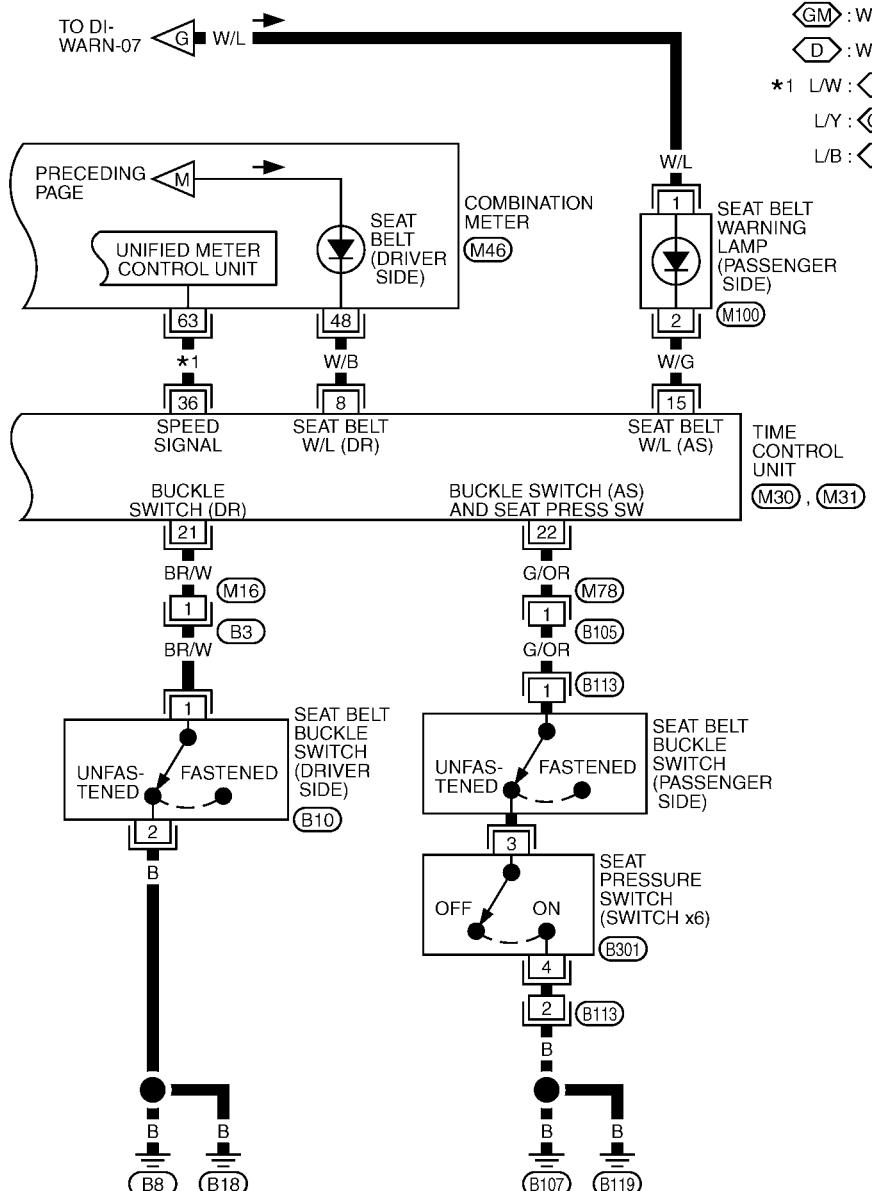
TKWA0259E

WARNING LAMPS



WARNING LAMPS

DI-WARN-12



(A) : WITH A/T
 (GM) : WITH GASOLINE ENGINE WITH M/T
 (D) : WITH DIESEL ENGINE

*1 L/W : (A)
 L/Y : (GM)
 L/B : (D)

A

B

C

D

E

F

G

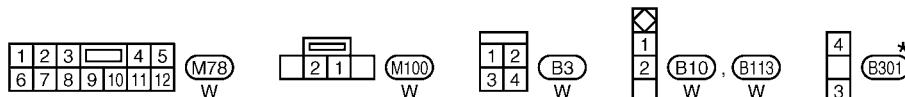
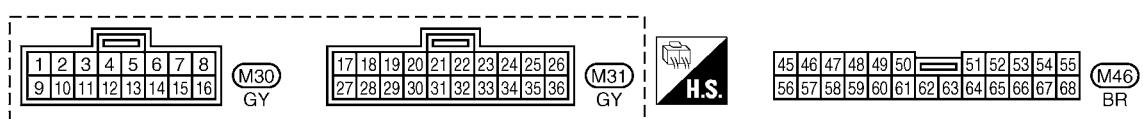
H

J

DI

L

M



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWA0261E

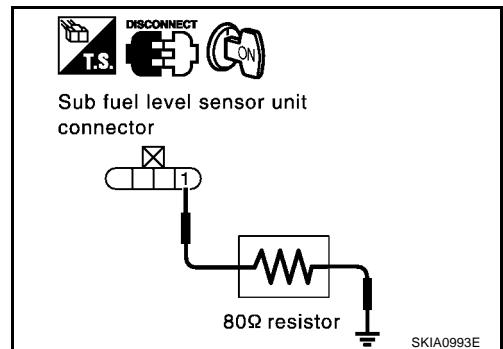
WARNING LAMPS

Electrical Components Inspection FUEL WARNING LAMP OPERATION CHECK

EKS002HK

1. Turn ignition switch "OFF".
2. Disconnect sub fuel level sensor unit harness connector B125 (LHD models) or B21 (RHD models).
3. Connect a resistor (80Ω) between sub fuel level sensor unit harness connector terminal 1(G) and ground.
4. Turn ignition switch "ON".

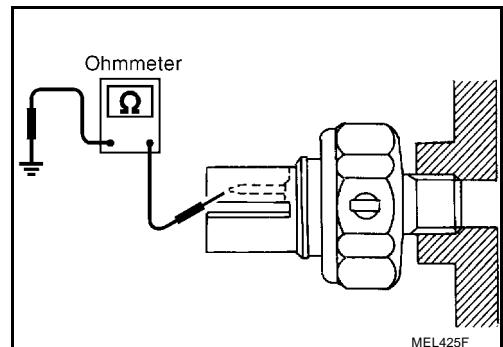
The fuel warning lamp should come on.



OIL PRESSURE SWITCH CHECK

	Oil pressure kPa (bar, kg/cm ² , psi)	Continuity
Engine running	More than 10 - 20 (0.10 - 0.20, 0.1 - 0.2, 1 - 3)	No
Engine not running	Less than 10 - 20 (0.10 - 0.20, 0.1 - 0.2, 1 - 3)	Yes

Check the continuity between the terminals of oil pressure switch and body ground.

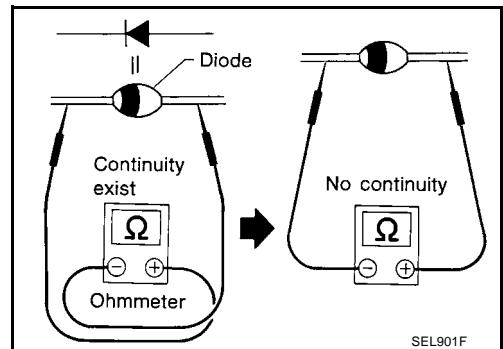


DIODE CHECK

- Check continuity using an ohmmeter.
- Diode is functioning properly if test results are as shown in the figure at left.
- Check diodes at the combination meter harness connector instead of on the combination meter assembly. Refer to [DI-44, "Wiring Diagram — WARN —/ LHD Models"](#) or [DI-50, "Wiring Diagram — WARN —/ RHD Models"](#).

NOTE:

Specification may vary depending on the type of tester. Before performing this inspection, be sure to refer to the instruction manual for the tester to be used.



A/T INDICATOR

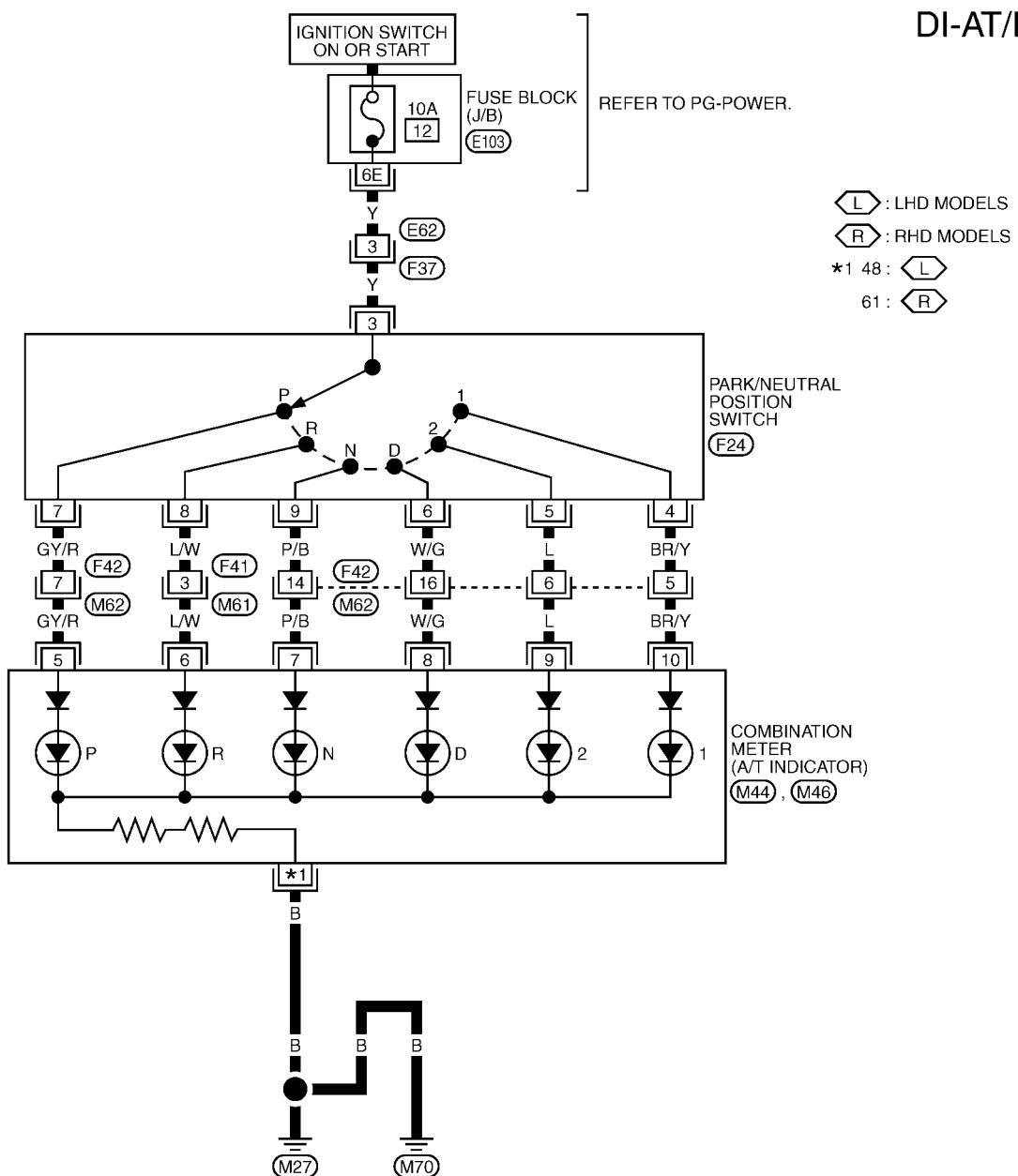
A/T INDICATOR

PFP:24814

Wiring Diagram — AT/IND —

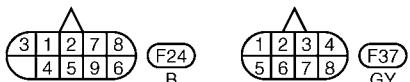
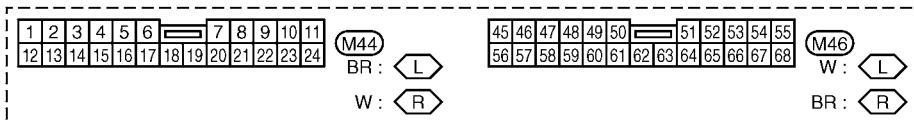
EKS002HL

DI-AT/IND-01



REFER TO THE FOLLOWING.

**(E103) -FUSE BLOCK-JUNCTION
BOX (I/B)**



WARNING CHIME

PFP:24814

System Description

POWER SUPPLY AND GROUND CIRCUIT

EKS002XF

Power is supplied at all times

- to combination switch terminal 11 and
- to daytime light control unit terminal 1 (with daytime light system)
- through 10A fuse (No.31, located in fuse and fusible link box), and
- to key switch terminal 1 and
- to time control unit terminal 1
- through 10A fuse [No.28, located in the fuse block (J/B)].

With ignition switch in ON or START position, power is supplied

- to time control unit terminal 17
- through 10A fuse [No.5, located in the fuse block (J/B)].

Ground is supplied

- to time control unit terminal 16
- through body grounds M27 and M70.

IGNITION KEY WARNING CHIME

With ignition switch in OFF or ACC position, and the driver's door open and driver's door locked, the warning chime will sound. Power is supplied

- to time control unit terminal 18
- through key switch terminal 2 and

Ground is supplied

- to time control unit terminal 28
- through front door lock actuator (driver side) terminal 5

Front door lock actuator (driver side) terminal 2 is grounded through body grounds M27 and M70, and

Ground is supplied

- to time control unit terminal 30
- through front door switch (driver side) terminal 2.

Front door switch (driver side) terminal 3 is grounded through body grounds B8 and B18.

LIGHT WARNING CHIME

With ignition switch OFF position, driver's door open, and lighting switch in 1ST or 2ND position, warning chime will sound. Power is supplied

- from the lighting switch terminal 12 or daytime light control unit terminal 11 (with daytime light system)
- to time control unit terminal 19.

Ground is supplied

- to time control unit terminal 30
- through front door switch (driver side) terminal 2.

Front door switch (driver side) terminal 3 is grounded through body grounds B8 and B18.

SEAT BELT WARNING CHIME

When the vehicle speed exceeds 25 km/h (16MPH) with driver side or passenger side seat belt unfastened (seat belt switch ON), warning chime will sound. Refer to [SB-6, "SEAT BELT WARNING SYSTEM"](#).

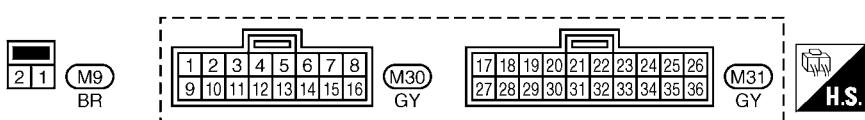
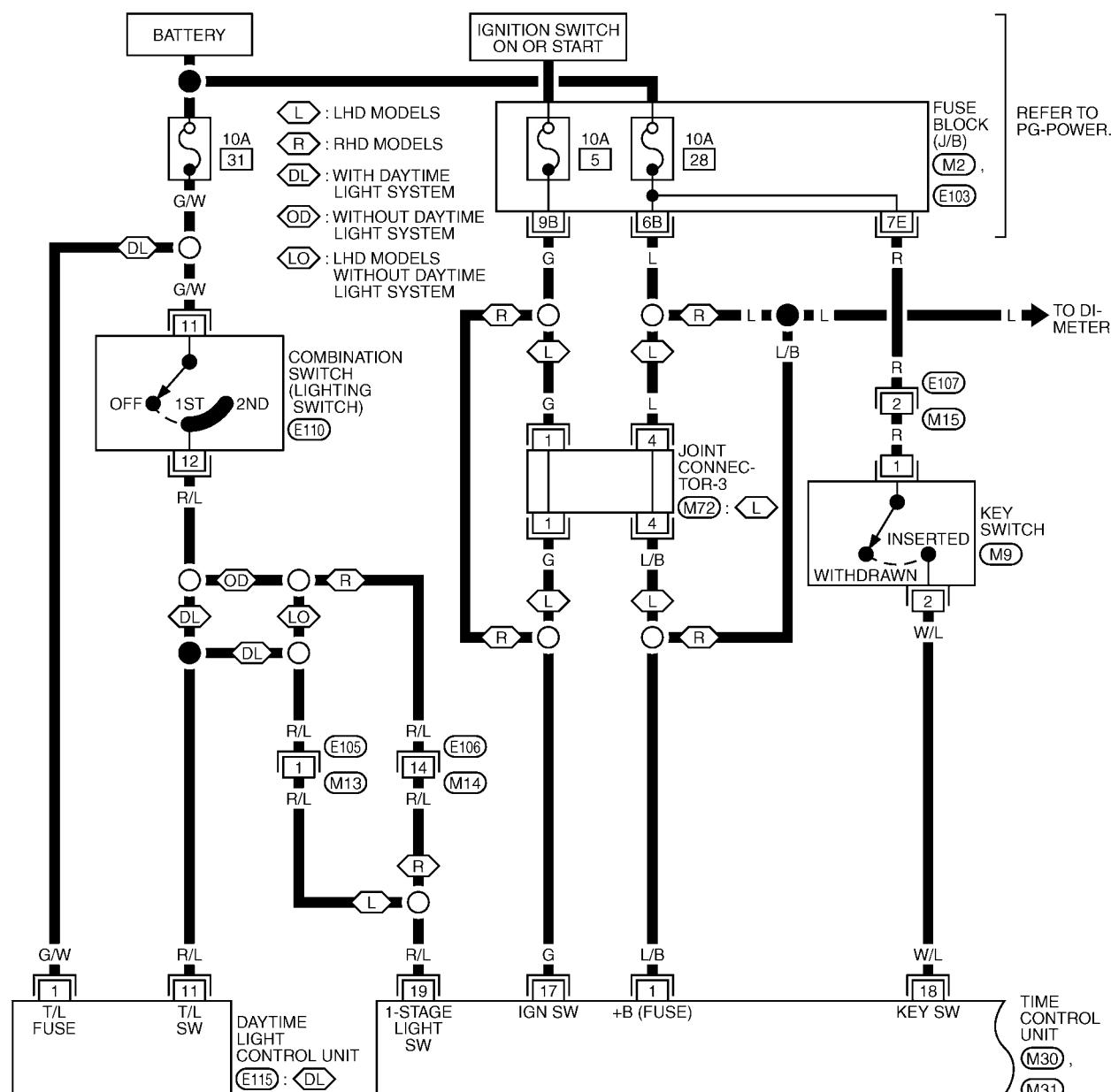
WARNING CHIME

Wiring Diagram — CHIME —

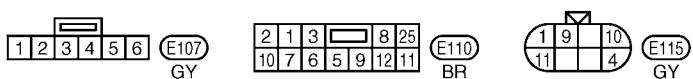
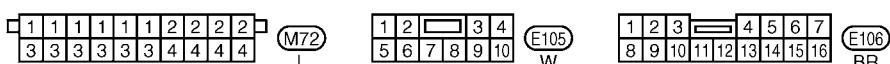
SMA for models with roof mounted driving lamp

EKS002XJ

DI-CHIME-01



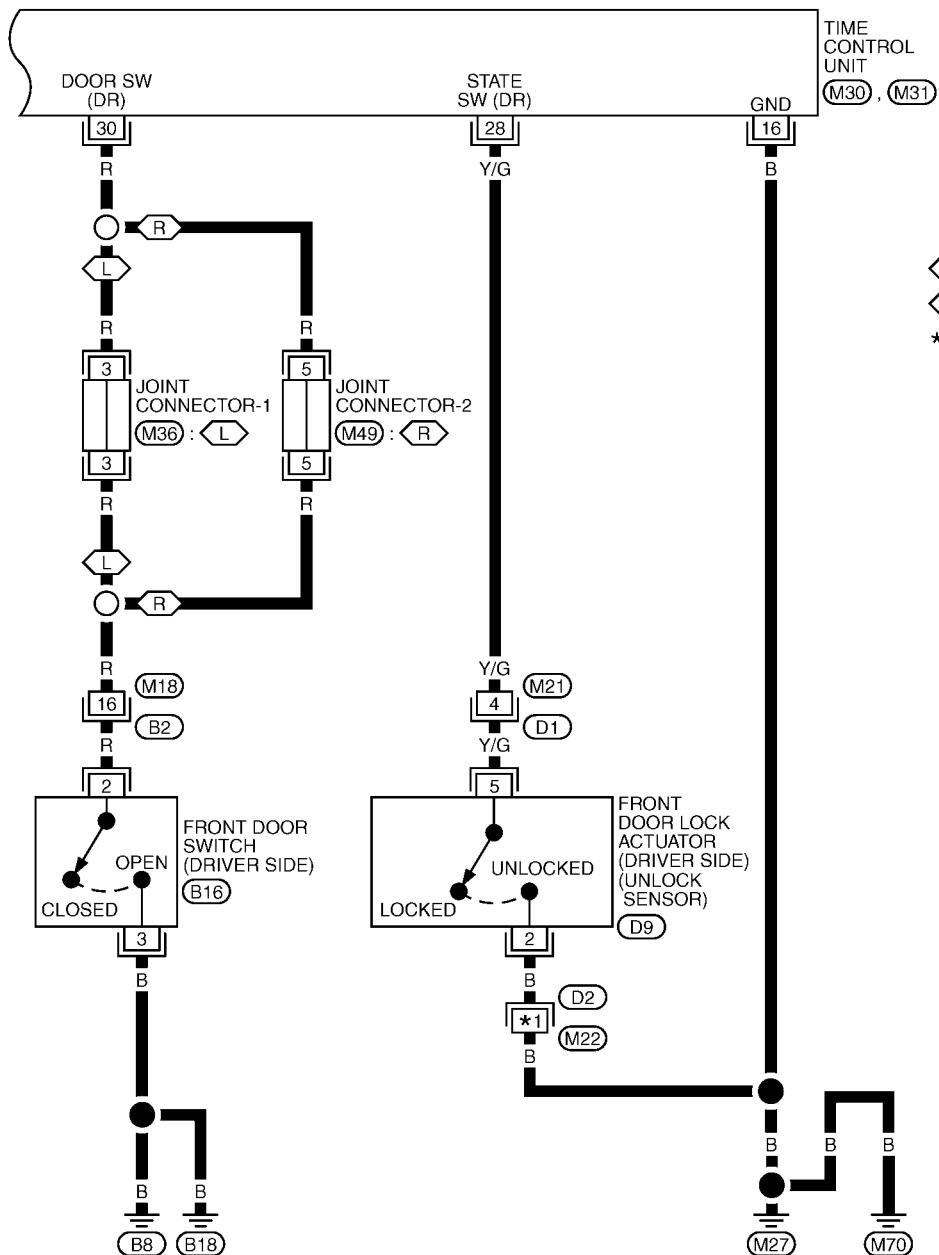
REFER TO THE FOLLOWING.
M2, E103 -FUSE BLOCK-JUNCTION BOX (J/B)



TKWA0101E

WARNING CHIME

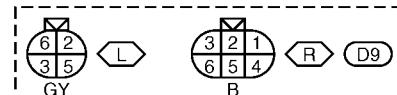
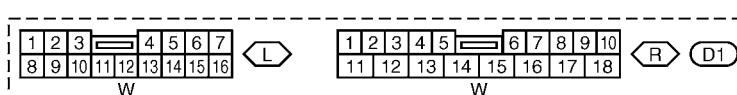
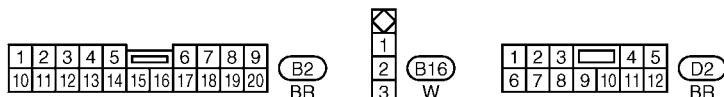
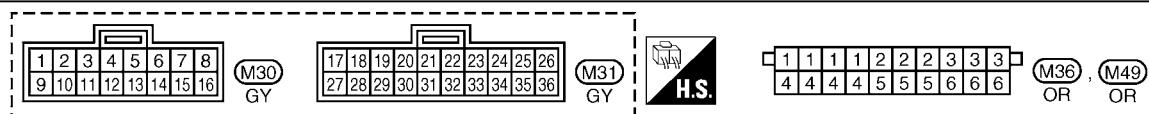
DI-CHIME-02



 : LHD MODELS

 : RHD MODELS

*1 8: L
4: R



WARNING CHIME

Symptom Chart

EKS002XQ

Symptom	Diagnoses/ Service procedure	Reference page
Light warning chime does not activate.	● Power supply and ground circuit check	DI-62, "Power Supply and Ground Circuit Check"
	● Lighting switch check	DI-63, "Lighting Switch Input Signal Check"
	● Front door switch (driver side) check	DI-68, "Front Door Switch (driver side) Check"
Key warning chime does not activate.	● Power supply and ground circuit check	DI-62, "Power Supply and Ground Circuit Check"
	● Key switch insert signal check	DI-65, "Key Switch Insert Signal Check"
	● Door unlock sensor check	DI-66, "Door Unlock Sensor Check"
	● Front door switch (driver side) check	DI-68, "Front Door Switch (driver side) Check"
Seat belt warning chime does not activate.	● Seat belt warning system check	SB-6, "SEAT BELT WARNING SYSTEM"
All warning chimes do not activate.	● Power supply and ground circuit check	DI-62, "Power Supply and Ground Circuit Check"
	● Front door switch (driver side) check	DI-68, "Front Door Switch (driver side) Check"

A

B

C

D

E

F

G

H

I

J

DI

L

M

WARNING CHIME

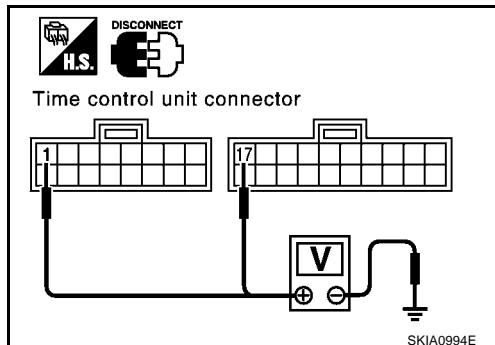
Power Supply and Ground Circuit Check

EKS002YF

1. POWER SUPPLY CIRCUIT CHECK

1. Disconnect time control unit connector.
2. Check the following.

Terminals		Ignition switch position			
Connector	(+)	(-)	OFF	ACC	ON
M30	1 (L/B)	Ground	Battery voltage	Battery voltage	Battery voltage
M31	17 (G)	Ground	0V	0V	Battery voltage



OK or NG

OK >> GO TO 2

NG >> Check the following:

- 10A fuse [No.28, located in fuse block (J/B)]
- 10A fuse [No.5, located in fuse block (J/B)]
- Harness for open or short between time control unit and fuse

2. GROUND CIRCUIT CHECK

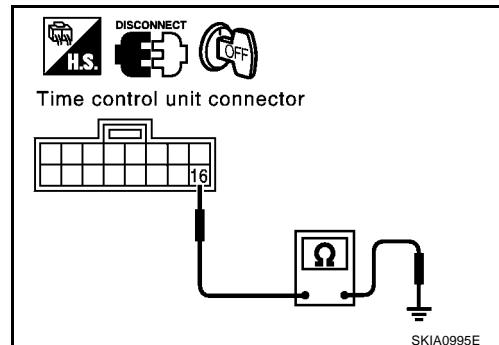
Check continuity between time control unit harness connector M30 terminal 16 (B) and ground.

Continuity should exist.

OK or NG

OK >> Inspection end.

NG >> Repair harness or connector.



WARNING CHIME

Lighting Switch Input Signal Check

EKS002XU

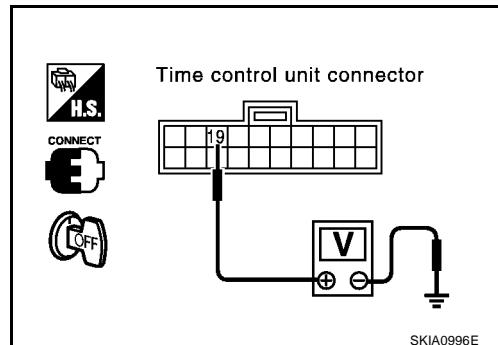
1. CHECK LIGHTING SWITCH INPUT SIGNAL

Check voltage between time control unit and ground.

Terminals		Condition of lighting switch	Voltage [V]
Connector	(+)	(-)	
M31	19 (R/L)	Ground	1st or 2nd position
			Approx.12
			OFF
			0

OK or NG

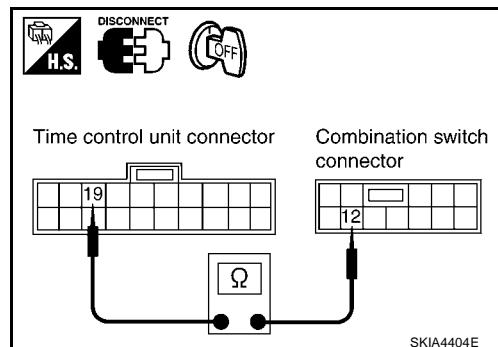
OK >> Lighting switch is OK.
 NG >> ● GO TO 2 (without daytime light control unit)
 ● GO TO 3 (with daytime light control unit)



2. CHECK LIGHTING SWITCH CIRCUIT (WITHOUT DAYTIME LIGHT SYSTEM)

1. Disconnect time control unit connector and combination switch connector.
2. Check continuity between time control unit harness connector M31 terminal 19 (R/L) and combination switch harness connector E110 terminal 12 (R/L).

Continuity should exist.

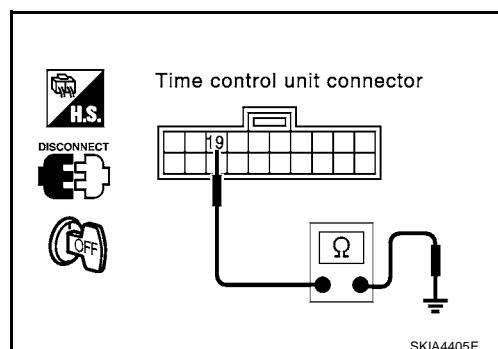


3. Check continuity between time control unit harness connector M31 terminal 19 (R/L) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 3.
 NG >> Repair harness or connector.

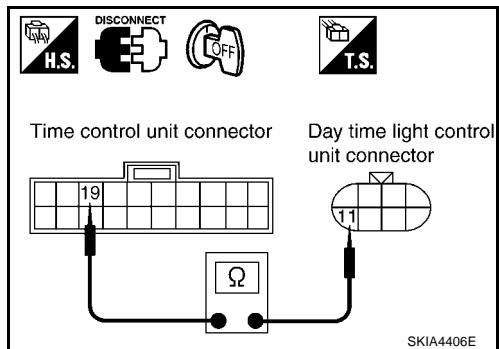


WARNING CHIME

3. CHECK LIGHTING SWITCH CIRCUIT (WITH DAYTIME LIGHT SYSTEM)

1. Disconnect time control unit connector and daytime light control unit connector.
2. Check continuity between time control unit harness connector M31 terminal 19 (R/L) and daytime light control unit harness connector E115 terminal 11 (R/L).

Continuity should exist.



3. Check continuity between time control unit harness connector M31 terminal 19 (R/L) and ground.

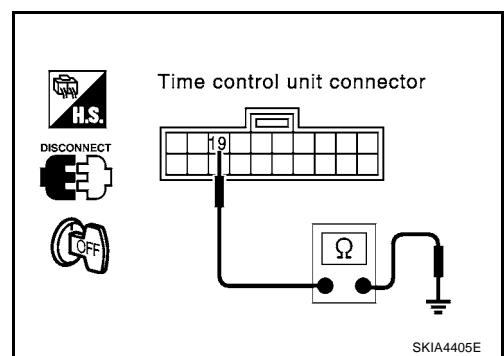
Continuity should not exist.

OK or NG

OK >> Check the following:

- 10A fuse (No.31, located in fuse and fusible link box)
- Harness for open or short between combination switch and fuse

NG >> Repair harness or connector.



Key Switch Insert Signal Check

EKS002XT

1. CHECK KEY SWITCH INPUT SIGNAL

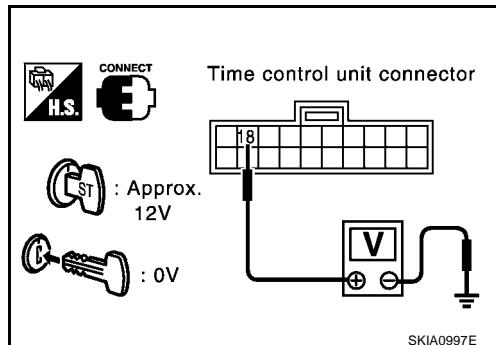
Check voltage between time control unit and ground.

Terminals		Condition of key switch	Voltage [V]
(+)	(-)		
Connector	Terminal (Wire color)		
M31	18 (W/L)	Inserted	Approx.12
		Removed	0

OK or NG

OK >> Key switch is OK.

NG >> GO TO 2.

**2. CHECK KEY SWITCH (INSERT)**

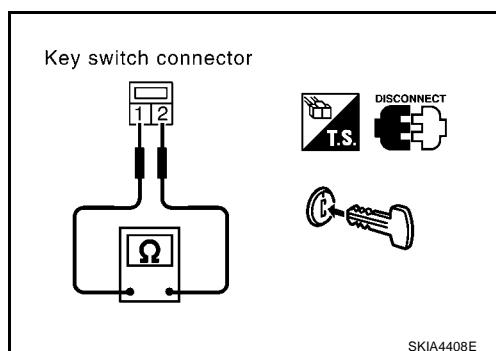
1. Disconnect key switch connector.
2. Check continuity between key switch terminals 1 and 2.

Connector	Terminals		Condition of key switch	Continuity
M9	1	2	Inserted	Yes
			Removed	No

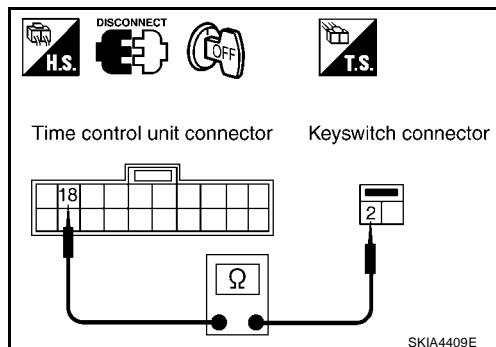
OK or NG

OK >> GO TO 3.

NG >> Replace key switch.

**3. CHECK KEY SWITCH CIRCUIT**

1. Disconnect time control unit connector.
2. Check continuity between time control unit harness connector M31 terminal 18 (W/L) and key switch harness connector M9 terminal 2 (W/L).

Continuity should exist.

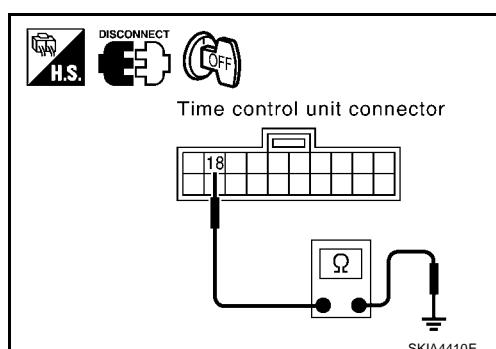
3. Check continuity between time control unit harness connector M31 terminal 18 (W/L) and ground.

Continuity should not exist.OK or NG

OK >> Check the following.

- 10A fuse [No.28, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse

NG >> Repair harness or connector.



WARNING CHIME

Door Unlock Sensor Check

EKS002YG

1. CHECK DOOR UNLOCK SENSOR INPUT SIGNAL

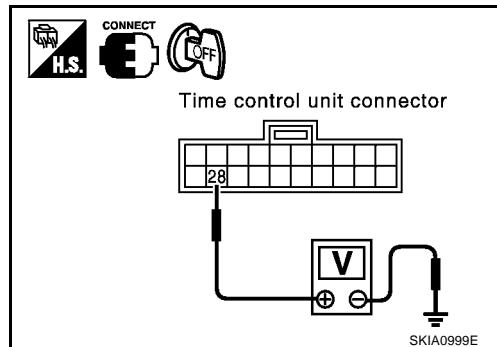
Check voltage between time control unit harness connector M31 terminal 28 (Y/G) and ground.

Terminals		Condition (Driver's door)	Voltage [V]
(+)	(-)		
28	Ground	Locked	Approx. 5
		Unlocked	0

OK or NG

OK >> Door unlock sensor is OK.

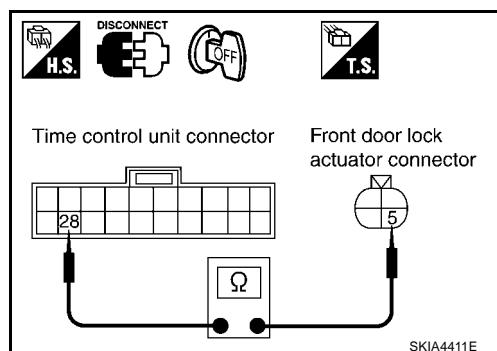
NG >> ● GO TO 2 (LHD models).
● GO TO 3 (RHD models)



2. CHECK DOOR UNLOCK SENSOR CIRCUIT (LHD MODELS)

1. Disconnect door unlock sensor connector.
2. Check continuity between time control unit harness connector M31 terminal 28 (Y/G) and front door lock actuator (driver side) harness connector D9 terminal 5 (Y/G).

Continuity should exist.



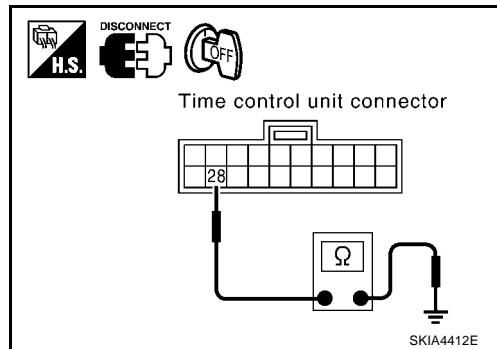
3. Check continuity between time control unit harness connector M31 terminal 28 (Y/G) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair harness or connector.

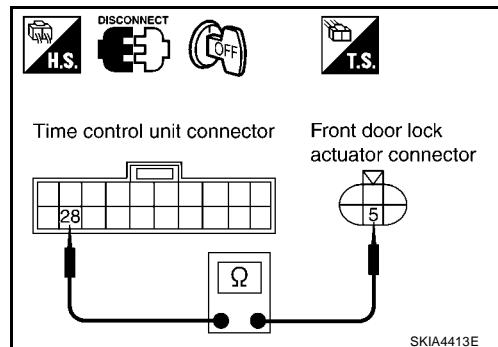


WARNING CHIME

3. CHECK DOOR UNLOCK SENSOR CIRCUIT (RHD MODELS)

1. Disconnect door unlock sensor connector.
2. Check continuity between time control unit harness connector M31 terminal 28 (Y/G) and front door lock actuator (driver side) harness connector D9 terminal 5 (Y/G).

Continuity should exist.



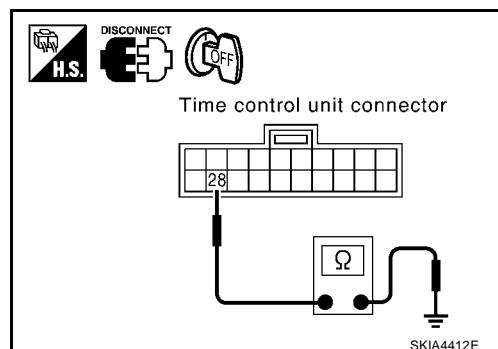
3. Check continuity between time control unit harness connector M31 terminal 28 (Y/G) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair harness or connector.



4. CHECK DOOR UNLOCK SENSOR GROUND CIRCUIT

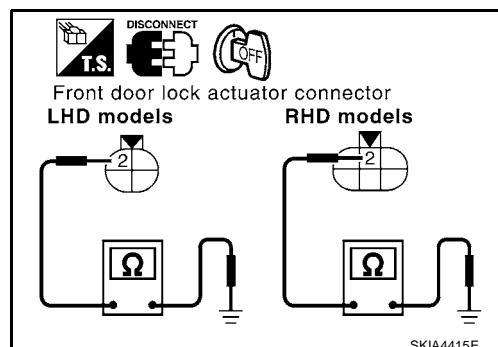
Check continuity between front door lock actuator (driver side) harness connector D9 terminal 2 (B) and ground.

Continuity should exist.

OK or NG

OK >> Replace front door lock actuator (driver side).

NG >> Repair harness or connector.



WARNING CHIME

Front Door Switch (driver side) Check

EKS002YH

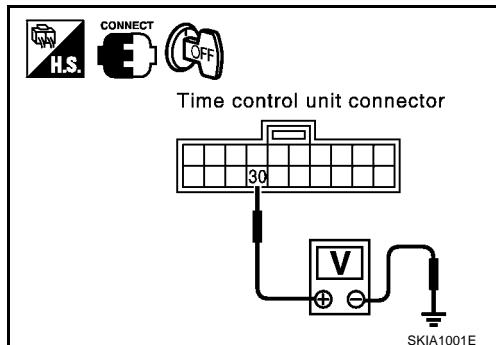
1. CHECK DOOR SWITCH INPUT SIGNAL

Check voltage between time control unit harness connector M31 terminal 30 (R) and ground.

Terminals		Condition (Driver's door)	Voltage [V]
(+)	(-)		
30	Ground	Closed	Approx. 5
		Open	0

OK or NG?

OK >> Front door switch (driver side) is OK.
NG >> GO TO 2.



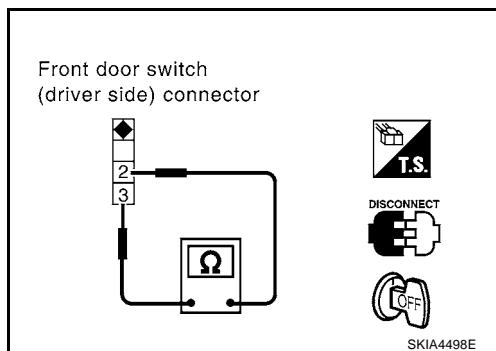
2. CHECK FRONT DOOR SWITCH (DRIVER SIDE)

1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) B16 terminal 2 and 3.

Connector	Terminals		Condition of key switch	Continuity
B16	2	3	Pressed	No
			Released	Yes

OK or NG?

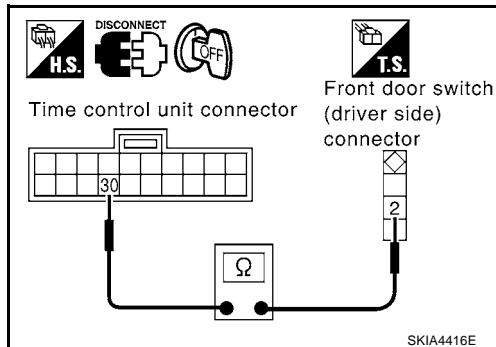
OK >> GO TO 3.
NG >> Replace front door switch (driver side).



3. CHECK FRONT DOOR SWITCH CIRCUIT

1. Disconnect time control unit connector.
2. Check continuity between time control unit harness connector M31 terminal 30 (R) and front door switch (driver side) harness connector B16 terminal 2 (R).

Continuity should exist.

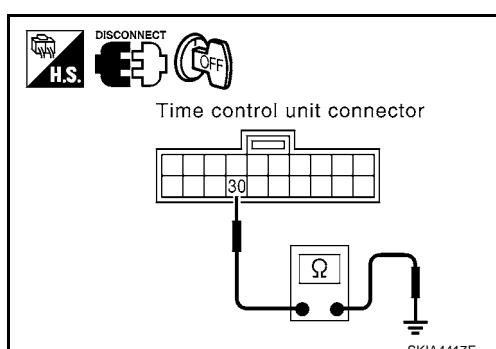


3. Check continuity between time control unit harness connector M31 terminal 30 (R) and ground.

Continuity should not exist.

OK or NG

OK >> GO TO 4.
NG >> Repair harness or connector.



WARNING CHIME

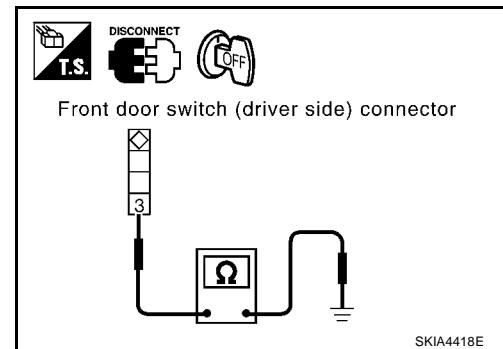
4. CHECK FRONT DOOR SWITCH GROUND CIRCUIT

Check continuity between front door switch (driver side) harness connector B16 terminal 3 (B) and ground.

Continuity should exist.

OK or NG

OK >> Replace front door switch (driver side).
NG >> Repair harness or connector.



A

B

C

D

E

F

G

H

I

J

DI

L

M

CLOCK

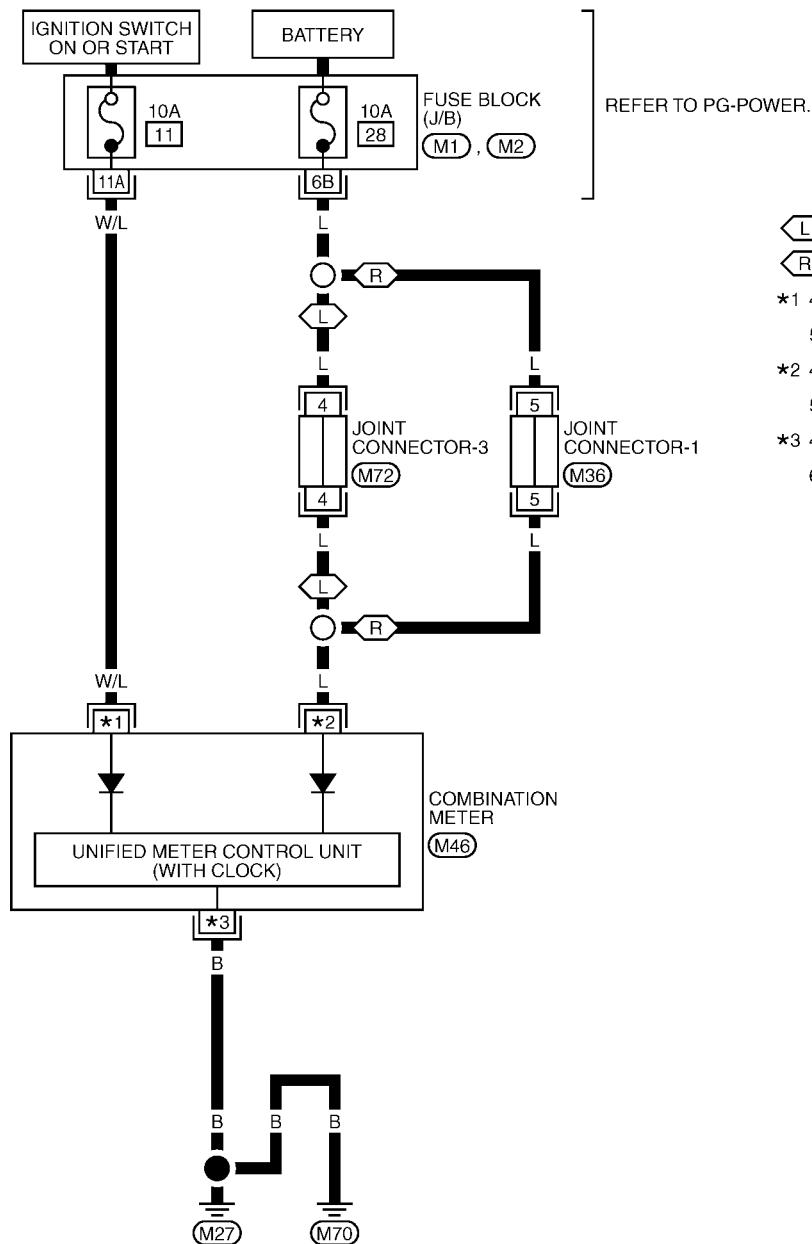
CLOCK

PFP:25820

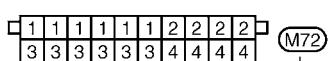
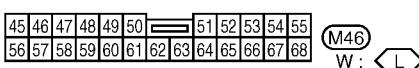
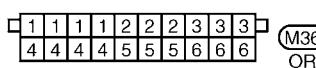
Wiring Diagram — CLOCK —

EKS00215

DI-CLOCK-01



- ◀ L : LHD MODELS
- ◀ R : RHD MODELS
- *1 46 : ◀ L
- 59 : ◀ R
- *2 45 : ◀ L
- 58 : ◀ R
- *3 47 : ◀ L
- 60 : ◀ R



REFER TO THE FOLLOWING.
 (M1, M2) -FUSE BLOCK-JUNCTION BOX (J/B)

TKWA0129E