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## SECTION

# POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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# PRECAUTIONS

## PRECAUTIONS

PF0:00011

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

EKS00BMY

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

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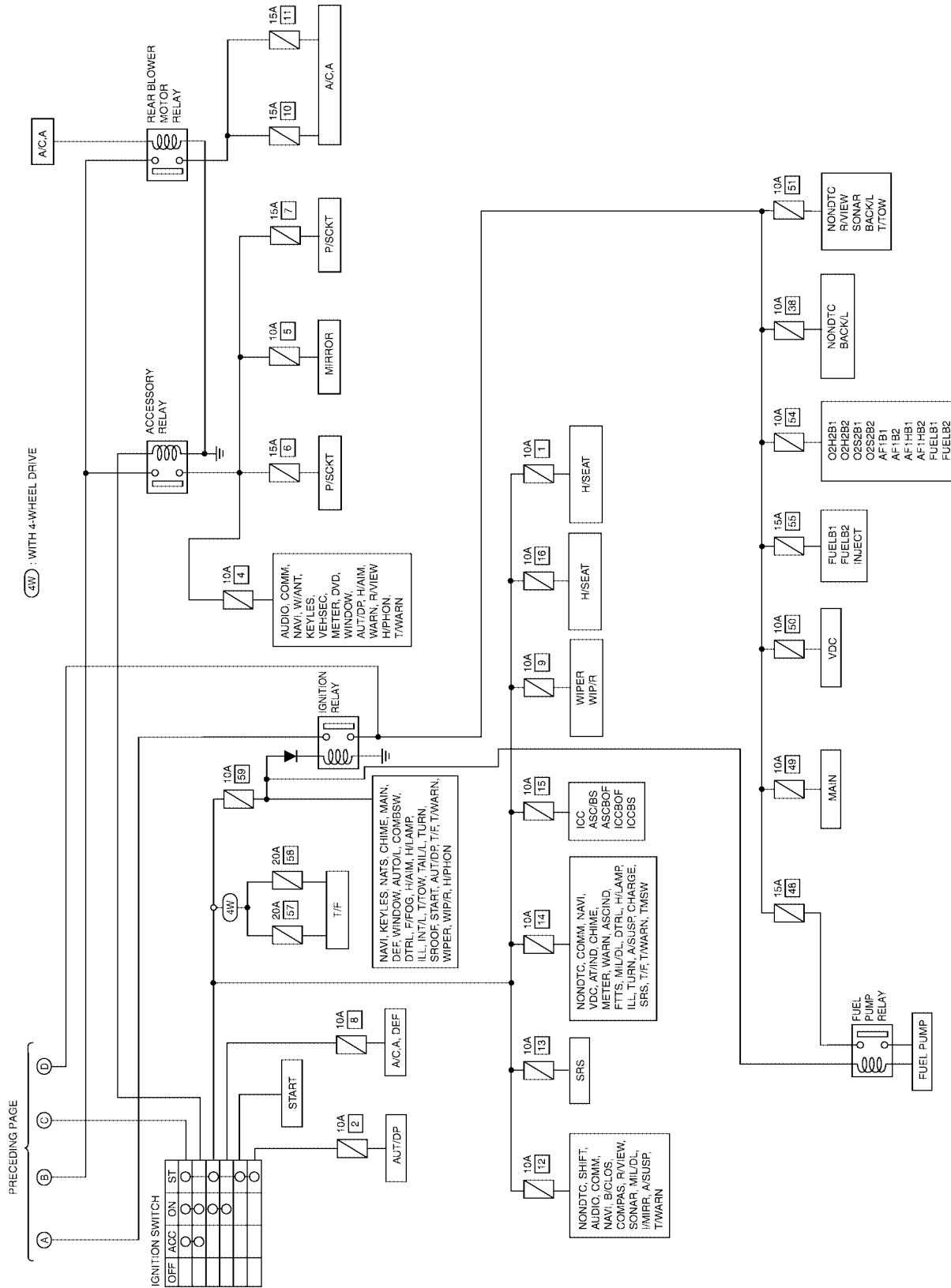
PG

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# POWER SUPPLY ROUTING CIRCUIT

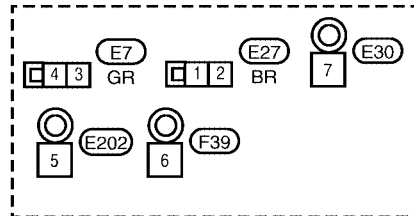
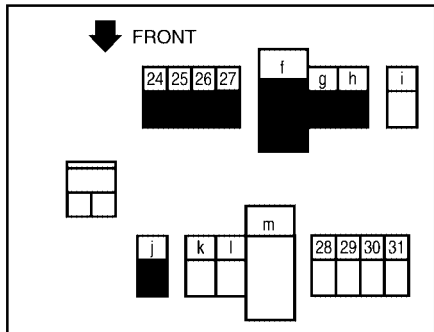
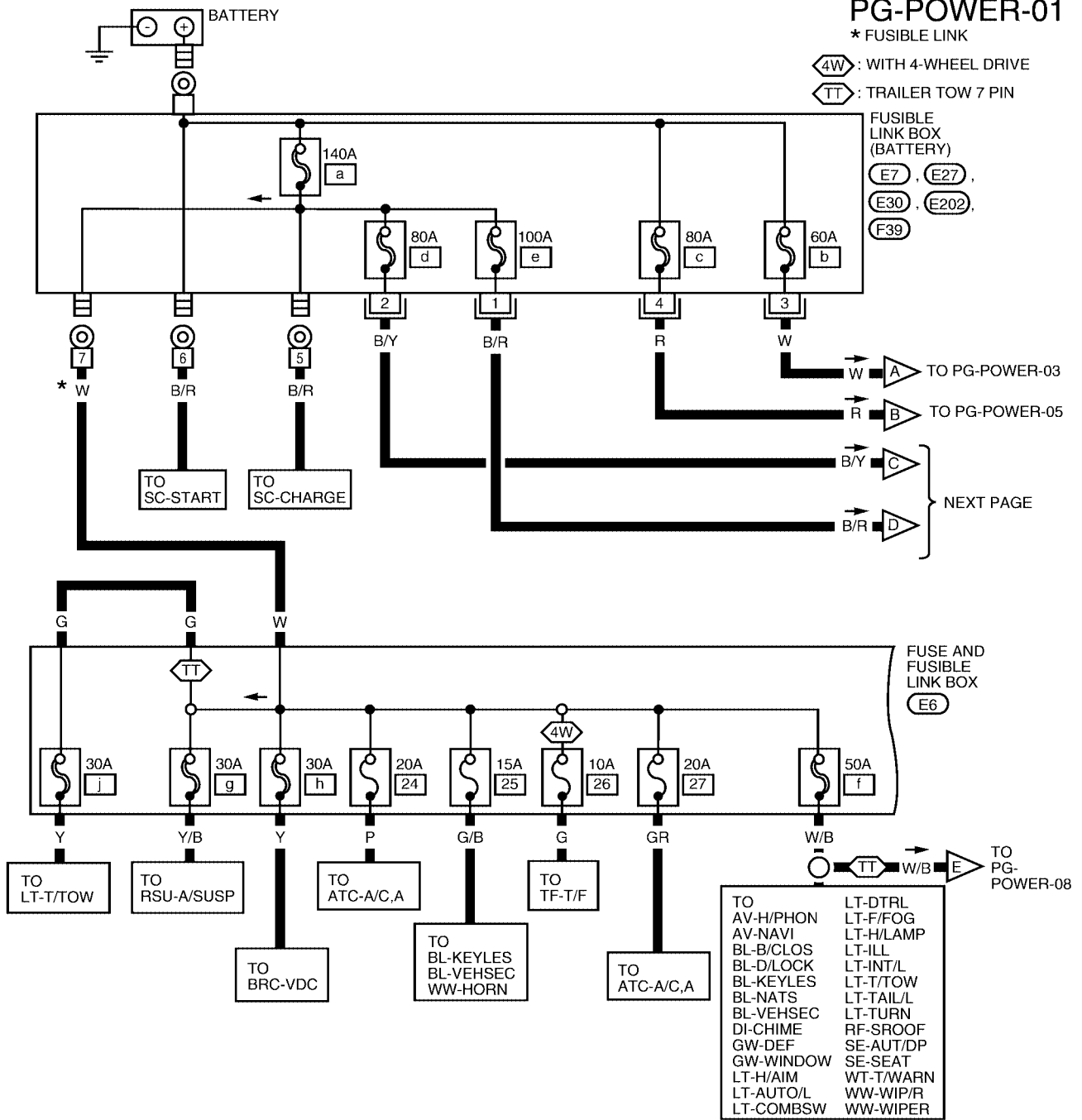


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# POWER SUPPLY ROUTING CIRCUIT

EKS00BN1

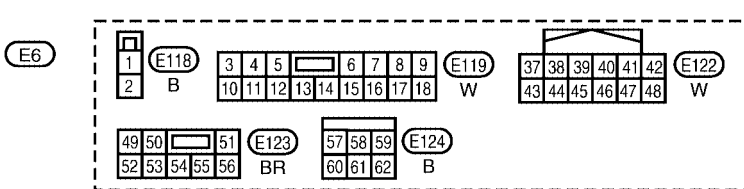
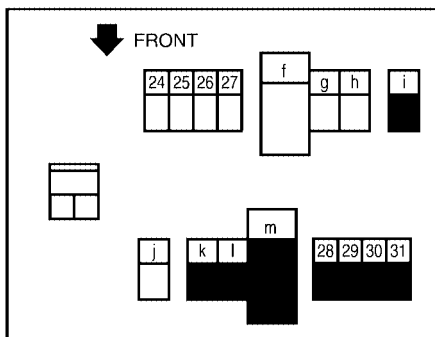
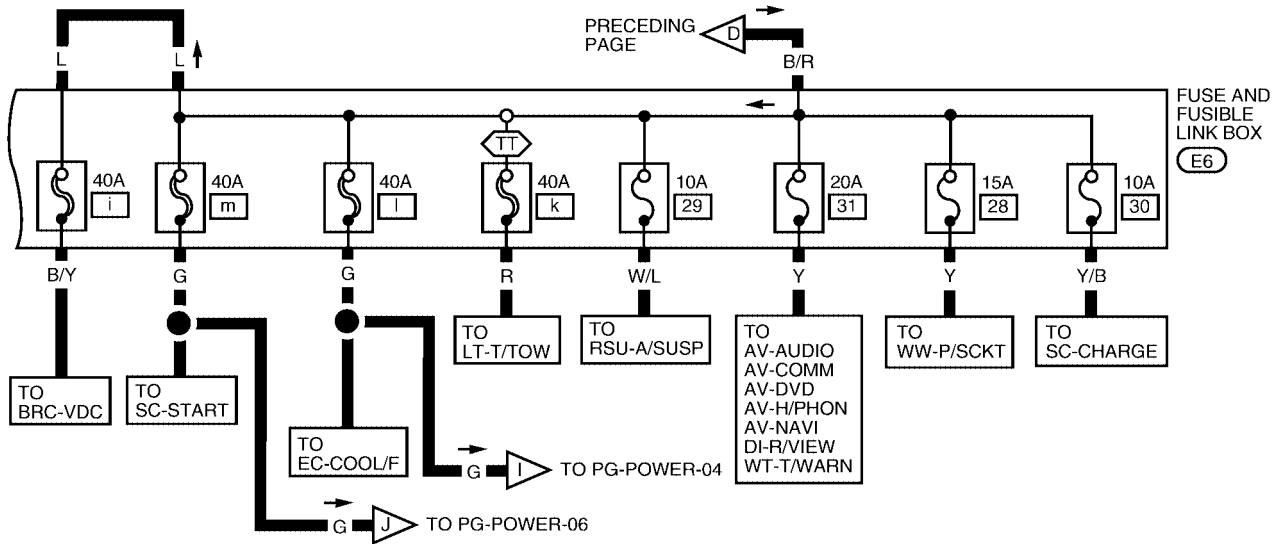
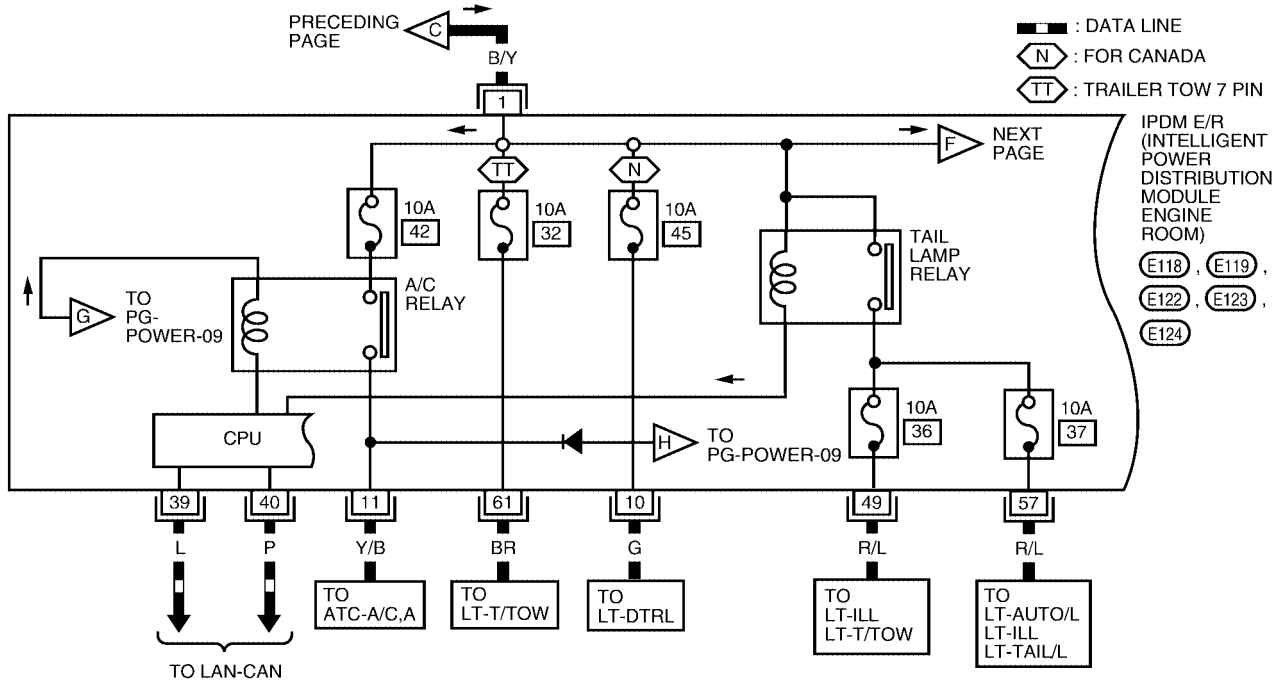
## Wiring Diagram — POWER — BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION



WKWA3820E

# POWER SUPPLY ROUTING CIRCUIT

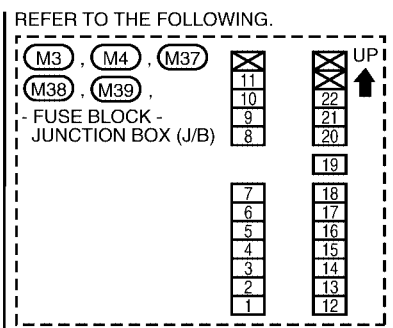
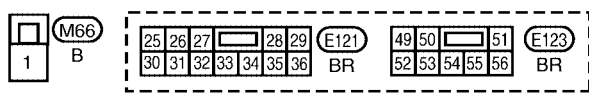
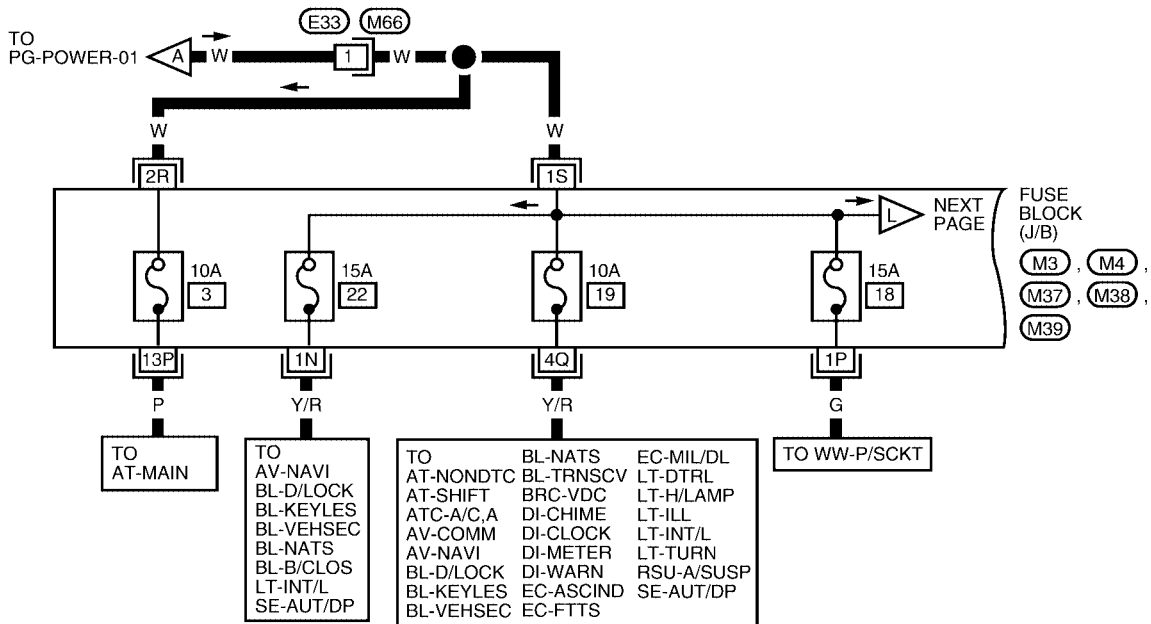
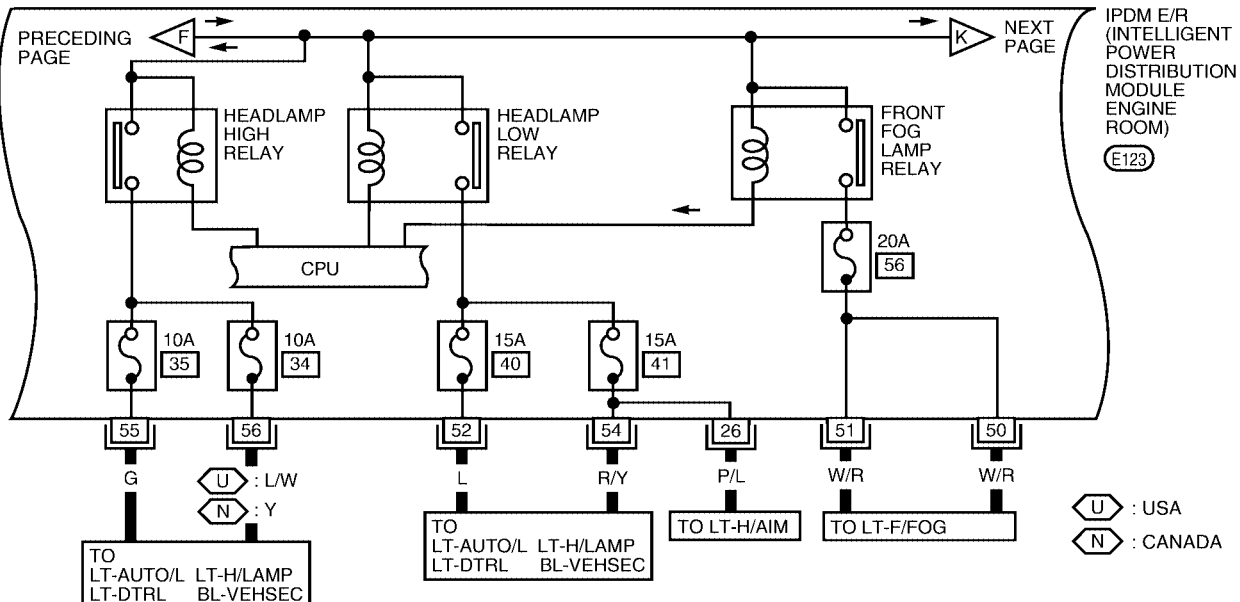
## PG-POWER-02



WKWA3821E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-03



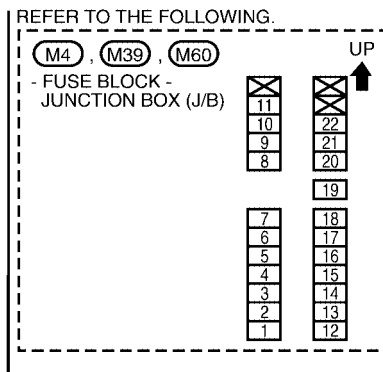
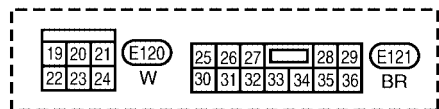
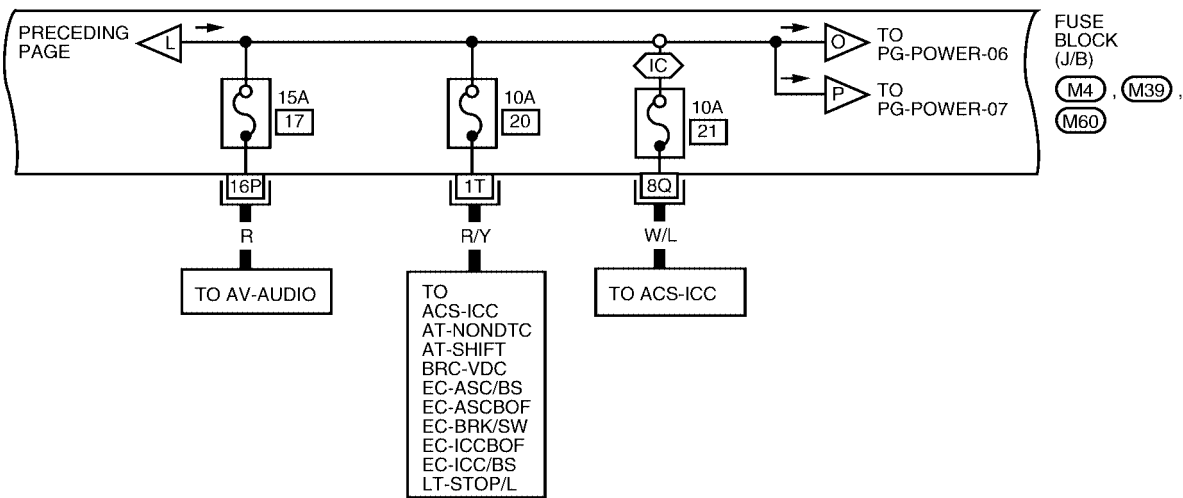
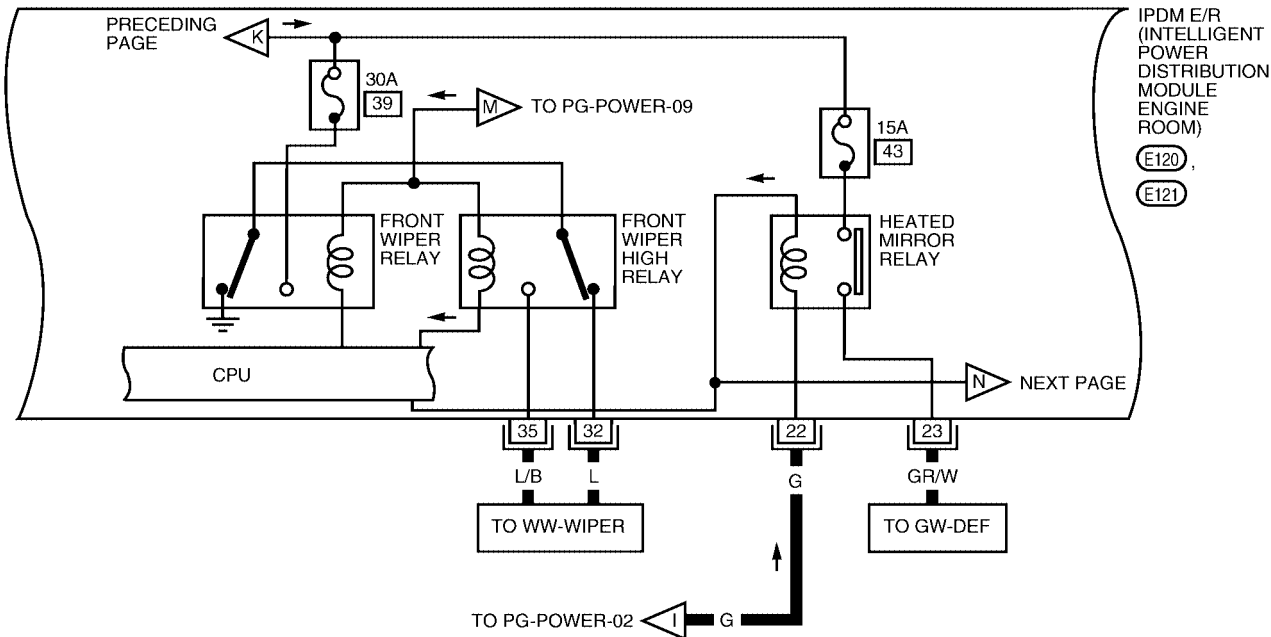
WKWA3822E



# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-04

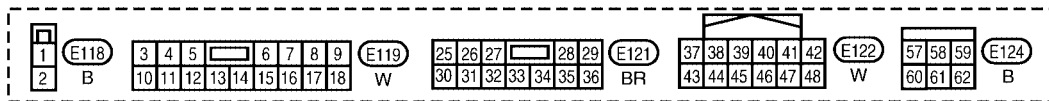
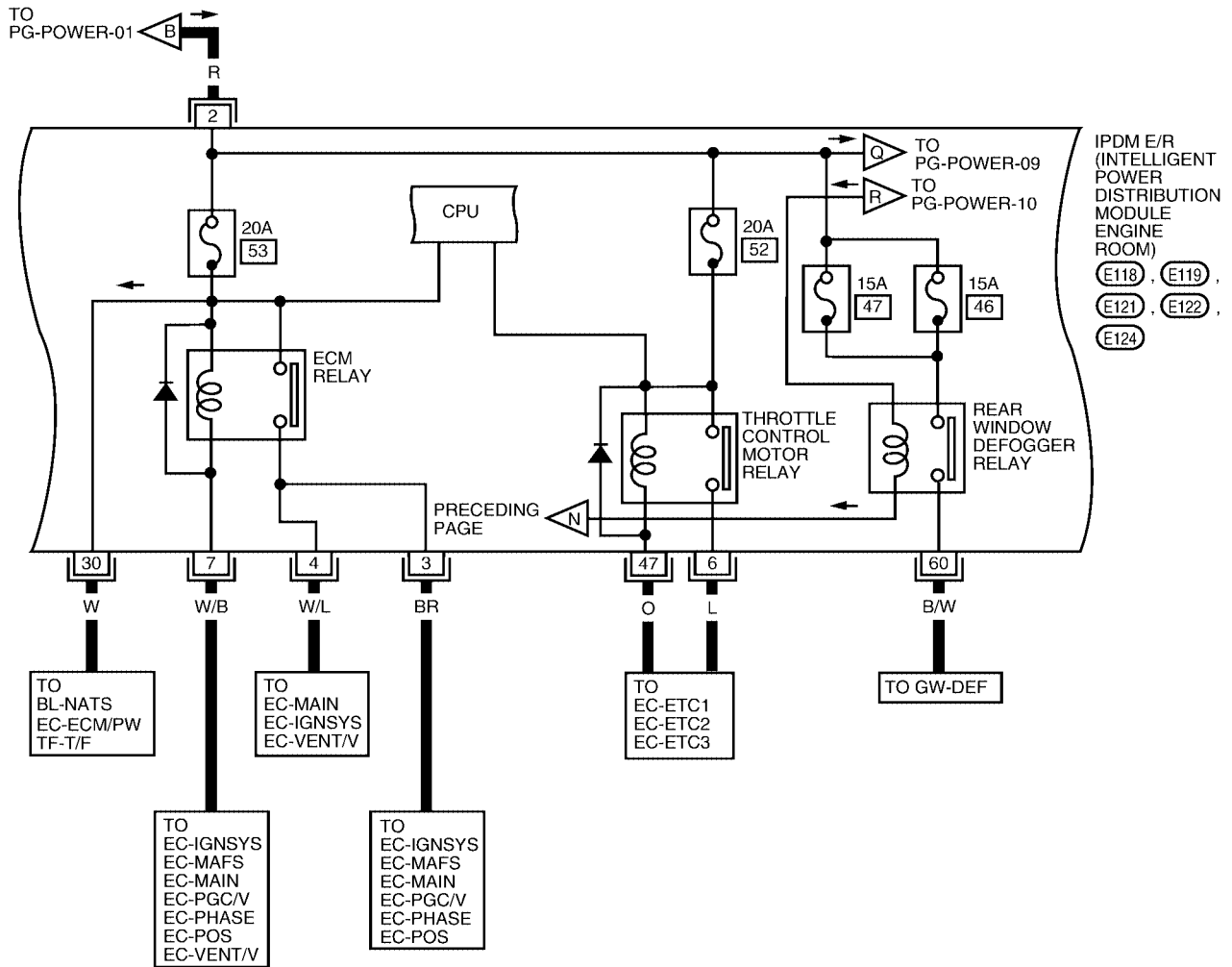
IC : WITH ICC



WKWA3823E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-05

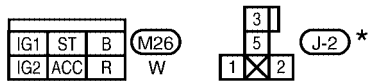
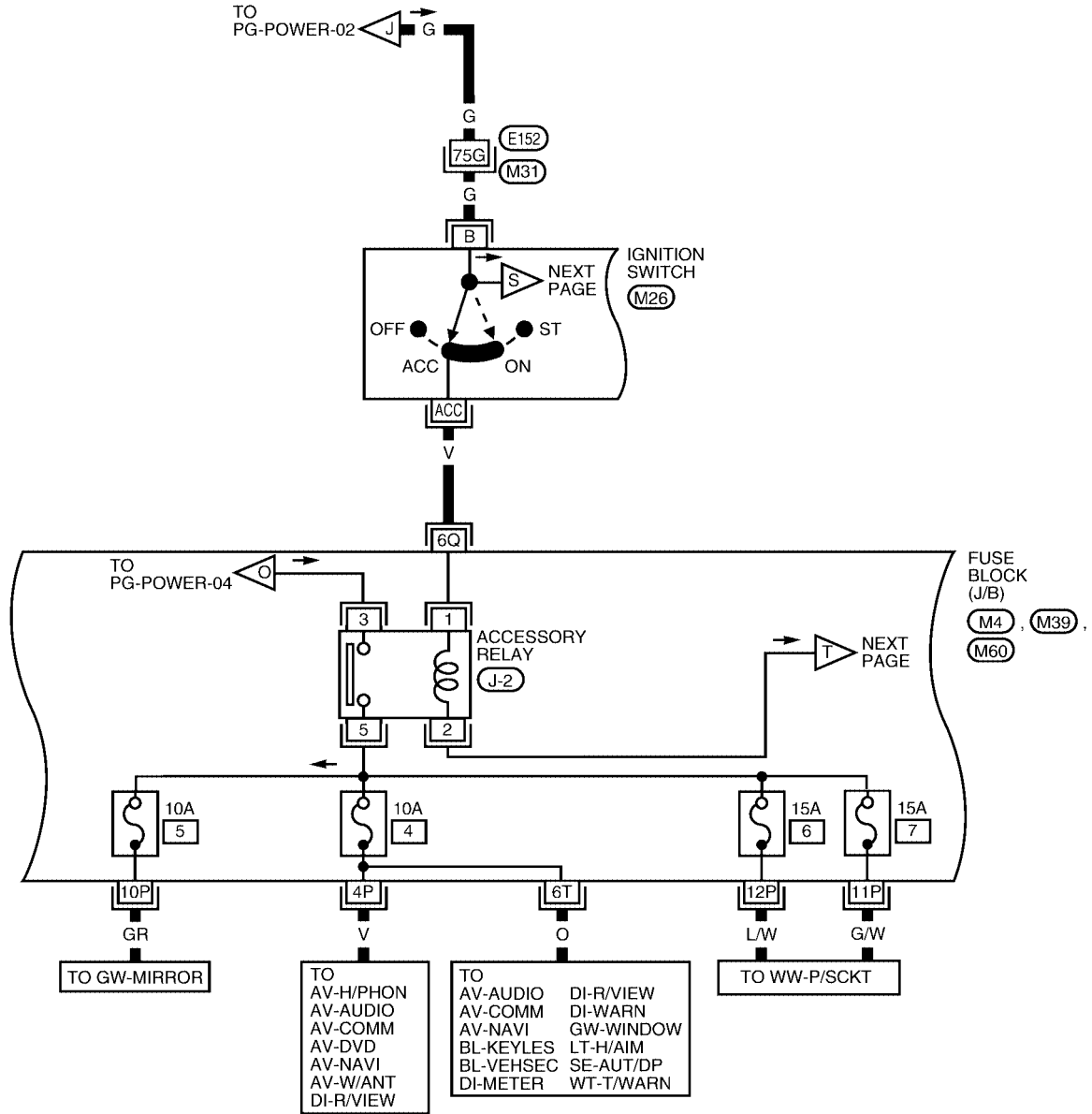


WKWA3824E

# POWER SUPPLY ROUTING CIRCUIT

## ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

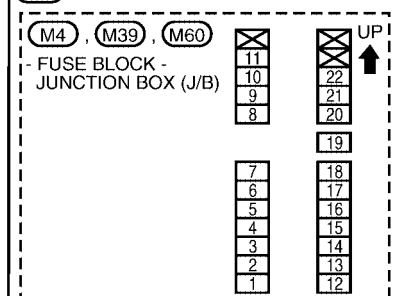
PG-POWER-06



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

REFER TO THE FOLLOWING.

(M31) - SUPER MULTIPLE JUNCTION (SMJ)

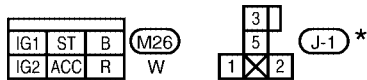
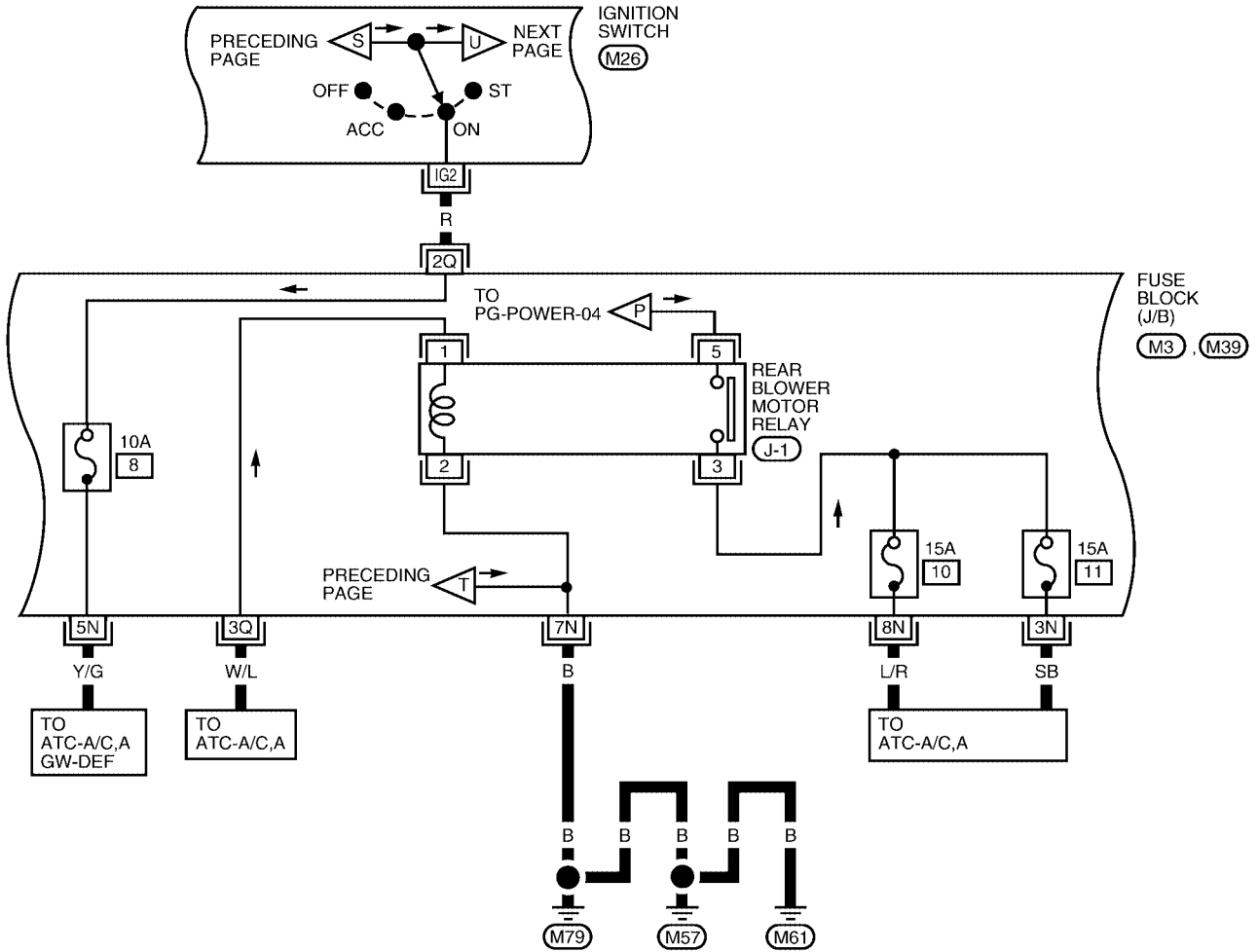


WKWA5521E

# POWER SUPPLY ROUTING CIRCUIT

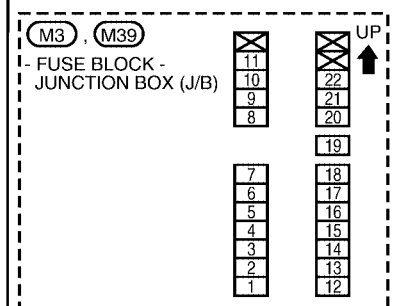
## IGNITION POWER SUPPLY — IGNITION SW. IN ON

PG-POWER-07



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

REFER TO THE FOLLOWING.




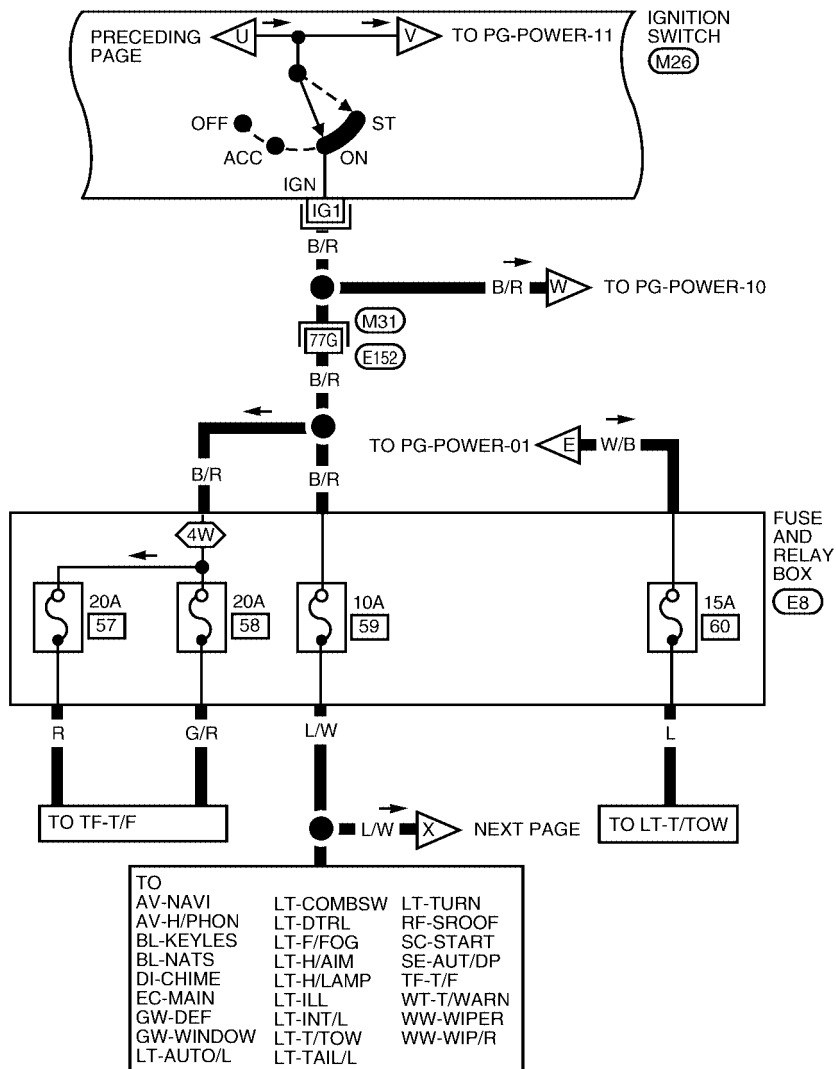
BKWA0755E

# POWER SUPPLY ROUTING CIRCUIT

## IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START

PG-POWER-08


 : WITH 4-WHEEL DRIVE



IG1	ST	B	M26
IG2	ACC	R	

W

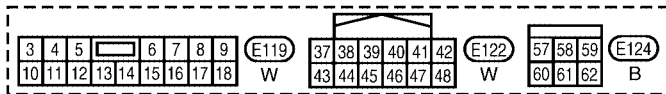
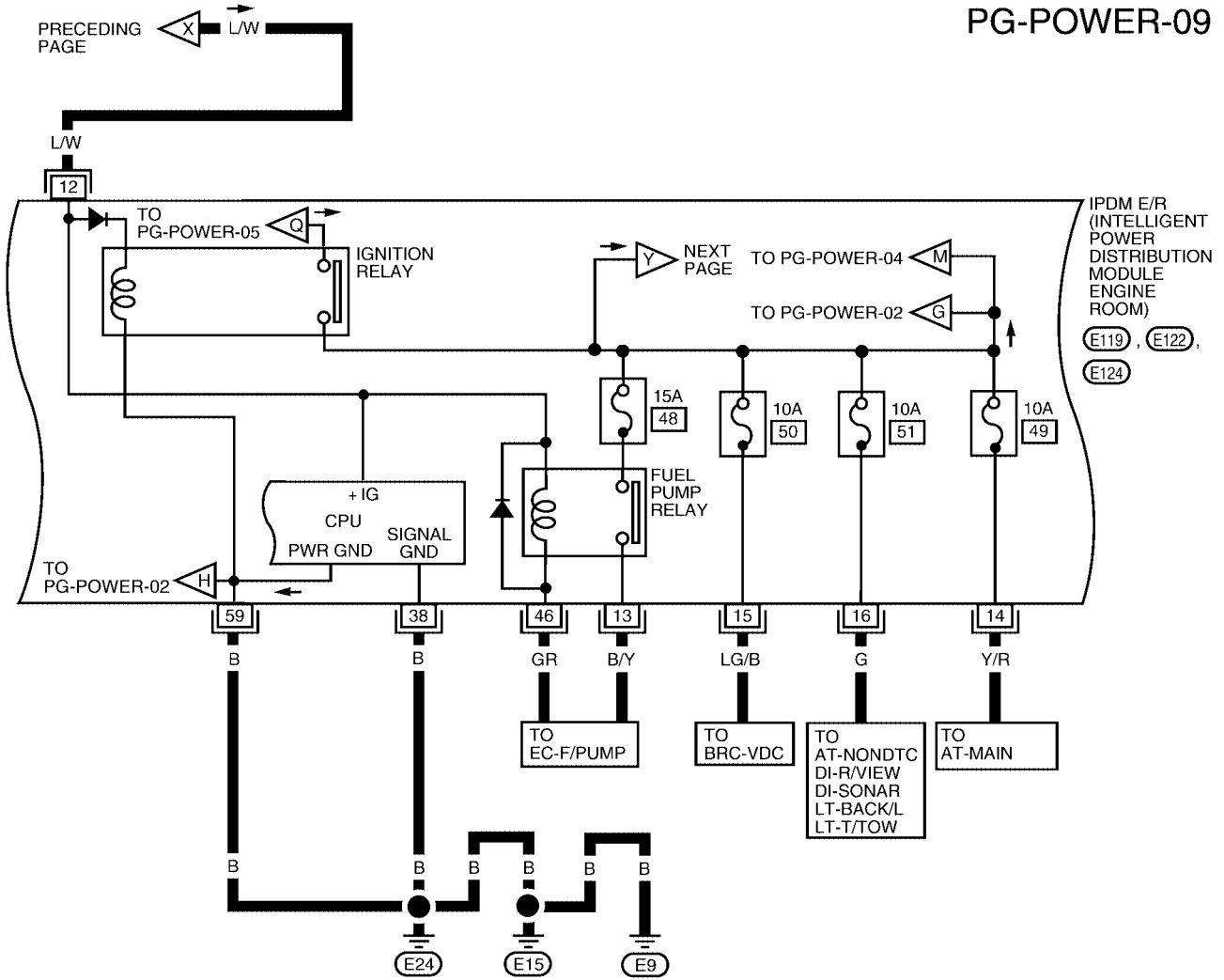
REFER TO THE FOLLOWING.

 - SUPER MULTIPLE JUNCTION (SMJ)

WKWA3827E

# POWER SUPPLY ROUTING CIRCUIT

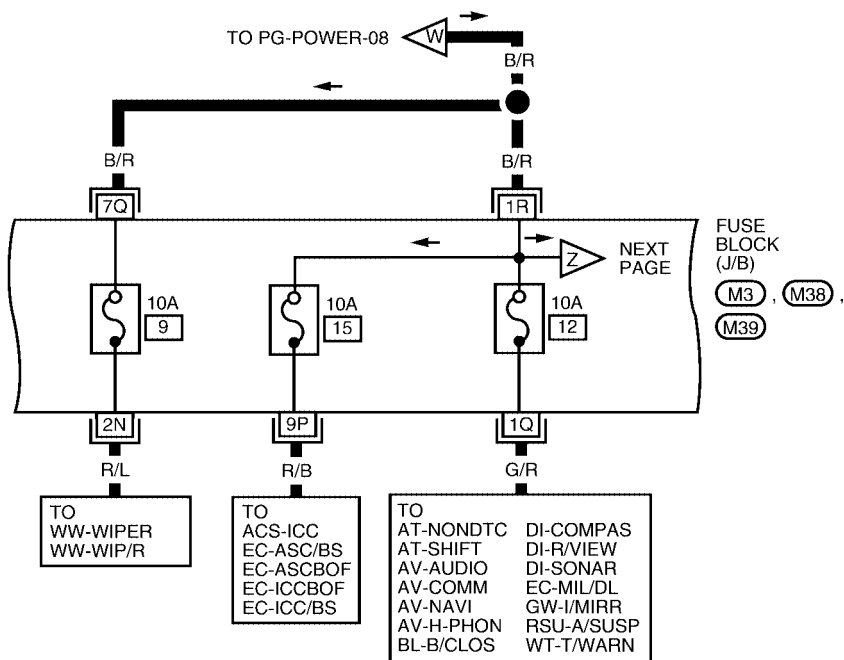
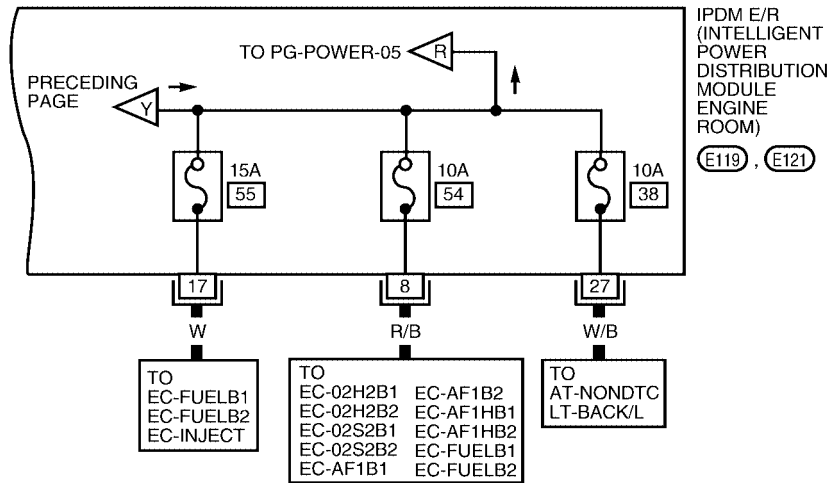
PG-POWER-09



WKWA3828E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-10



3	4	5	6	7	8	9	(E119)	25	26	27	28	29	(E121)				
10	11	12	13	14	15	16	17	18	W	30	31	32	33	34	35	36	BR

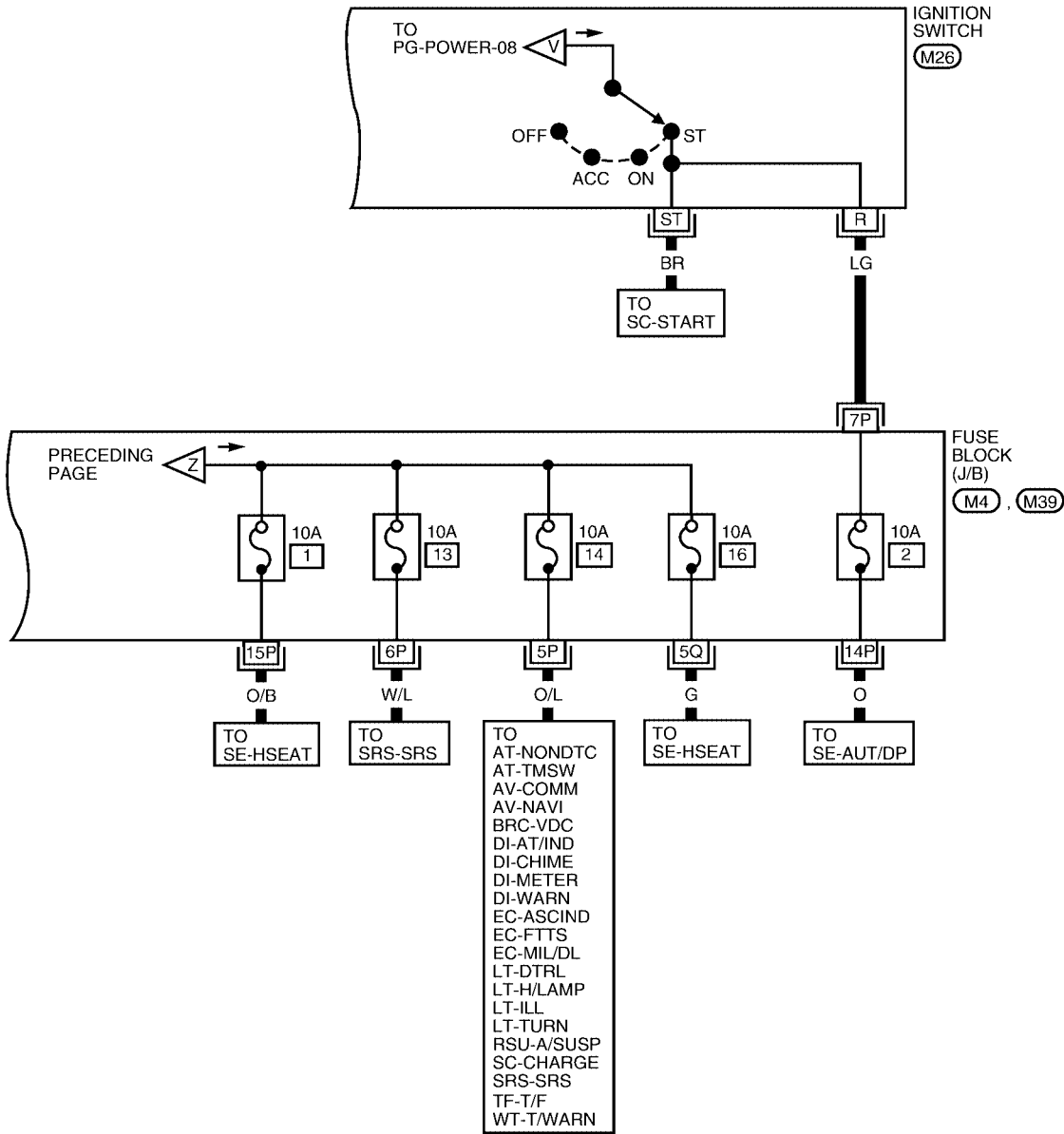
REFER TO THE FOLLOWING.

(M3)	(M38)	(M39)	11	22	UP
FUSE BLOCK - JUNCTION BOX (J/B)			10	21	↑
			9	20	
			8	19	
			7	18	
			6	17	
			5	16	
			4	15	
			3	14	
			2	13	
			1	12	

WKWA3829E

# POWER SUPPLY ROUTING CIRCUIT

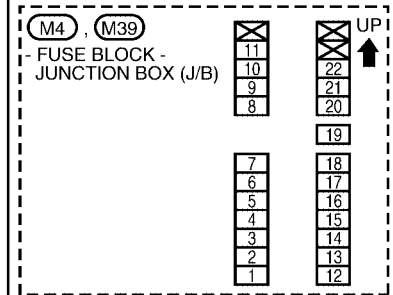
PG-POWER-11



IG1	ST	B	M26
IG2	ACC	R	

W

REFER TO THE FOLLOWING.



WKWA3830E

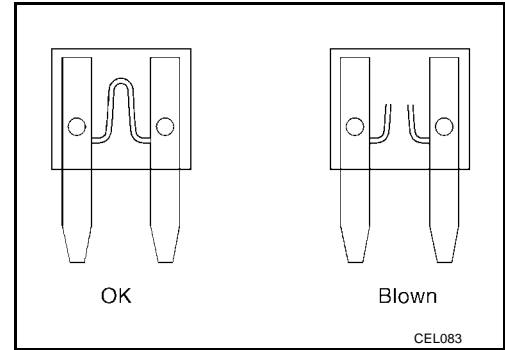


# POWER SUPPLY ROUTING CIRCUIT

## Fuse

EKS00GKH

- If fuse is blown, be sure to eliminate cause of incident before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is not used for a long period of time.



## Fusible Link

EKS00GKI

A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

### CAUTION:

- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape.
- Never let fusible link touch any other wiring harness, vinyl or rubber parts.

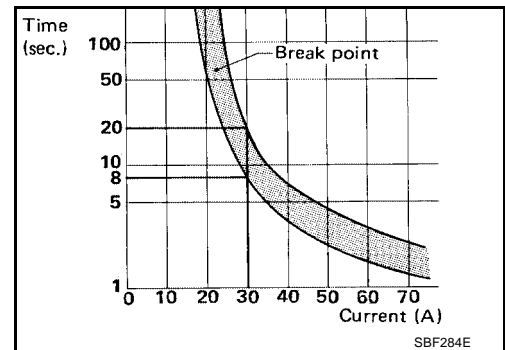
## Circuit Breaker (Built Into BCM)

EKS00GKJ

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

A circuit breaker is used for the following systems:

- Power windows
- Power door locks
- Remote keyless entry system
- Power sunroof
- Rear window wiper



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

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

PF:284B7

### System Description

EKS00BN2

- IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine compartment. It controls integrated relays via IPDM E/R control circuits.
- IPDM E/R-integrated control circuits perform ON-OFF operation of relays, CAN communication control, etc.
- It controls operation of each electrical component via ECM, BCM and CAN communication lines.

#### CAUTION:

**None of the IPDM E/R integrated relays can be removed.**

### SYSTEMS CONTROLLED BY IPDM E/R

1. Lamp control  
Using CAN communication lines, it receives signals from the BCM and controls the following lamps:
  - Headlamps (Hi, Lo)
  - Parking lamps
  - Tail and license lamps
  - Front fog lamps
2. Wiper control  
Using CAN communication lines, it receives signals from the BCM and controls the front wipers.
3. Rear window defogger relay control  
Using CAN communication lines, it receives signals from the BCM and controls the rear window defogger relay.
4. A/C compressor control  
Using CAN communication lines, it receives signals from the ECM and controls the A/C compressor (magnetic clutch).
5. Starter control  
Using CAN communication lines, it receives signals from the BCM and controls the starter relay.
6. Cooling fan control  
Using CAN communication lines, it receives signals from the ECM and controls the cooling fan relays.
7. Horn control  
Using CAN communication lines, it receives signals from the BCM and controls the horn relay.

### CAN COMMUNICATION LINE CONTROL

With CAN communication, by connecting each control unit using two communication lines (CAN L-line, CAN H-line), it is possible to transmit a maximum amount of information with minimum wiring. Each control unit can transmit and receive data, and reads necessary information only.

1. Fail-safe control
  - When CAN communication with other control units is impossible, IPDM E/R performs fail-safe control. After CAN communication returns to normal operation, it also returns to normal control.
  - Operation of control parts by IPDM E/R during fail-safe mode is as follows:

Controlled system	Fail-safe mode
Headlamp	<ul style="list-style-type: none"><li>● With the ignition switch ON, the headlamp (low) is ON.</li><li>● With the ignition switch OFF, the headlamp (low) is OFF.</li></ul>
Tail and parking lamps	<ul style="list-style-type: none"><li>● With the ignition switch ON, the tail and parking lamps are ON.</li><li>● With the ignition switch OFF, the tail and parking lamps are OFF.</li></ul>
Cooling fan	<ul style="list-style-type: none"><li>● With the ignition switch ON, the cooling fan HI operates.</li><li>● With the ignition switch OFF, the cooling fan stops.</li></ul>
Front wiper	Until the ignition switch is turned off, the front wiper LO and HI remains in the same status it was in just before fail-safe control was initiated.
Rear window defogger	Rear window defogger relay OFF

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

Controlled system	Fail-safe mode
A/C compressor	A/C compressor OFF
Front fog lamps	Front fog lamp relay OFF

## IPDM E/R STATUS CONTROL

In order to save power, IPDM E/R switches status automatically based on each operating condition.

1. CAN communication status
  - CAN communication is normally performed with other control units.
  - Individual unit control by IPDM E/R is normally performed.
  - When sleep request signal is received from BCM, mode is switched to sleep waiting status.
2. Sleep waiting status
  - Process to stop CAN communication is activated.
  - All systems controlled by IPDM E/R are stopped. When 1 second has elapsed after CAN communication with other control units is stopped, mode switches to sleep status.
3. Sleep status
  - IPDM E/R operates in low current-consumption mode.
  - CAN communication is stopped.
  - When a change in CAN communication signal is detected, mode switches to CAN communication status.
  - When a change in ignition switch signal is detected, mode switches to CAN communication status.

## CAN Communication System Description

EKS00BN3

Refer to [LAN-26, "CAN COMMUNICATION"](#).

## Function of Detecting Ignition Relay Malfunction

EKS00BN4

- When the integrated ignition relay is stuck in a "closed contact" position and cannot be turned OFF, IPDM E/R turns ON tail and parking lamps for 10 minutes to indicate IPDM E/R malfunction.
- When the state of the integrated ignition relay does not agree with the state of the ignition switch signal received via CAN communication, the IPDM E/R activates the tail lamp relay.

Ignition switch signal	Ignition relay status	Tail lamp relay
ON	ON	—
OFF	OFF	—
ON	OFF	—
OFF	ON	ON (10 minutes)

### NOTE:

When the ignition switch is turned ON, the tail lamps are OFF.

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

EKS00BN5

## CONSULT-II Function IPDM E/R

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

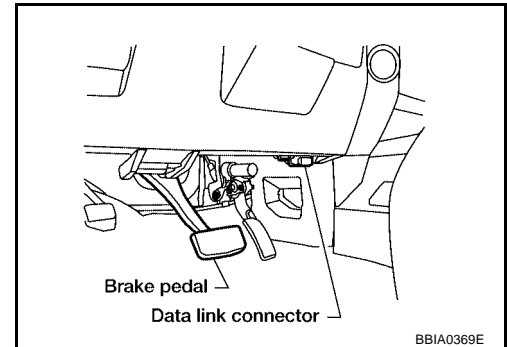
IPDM E/R diagnostic Mode	Description
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.
DATA MONITOR	Displays IPDM E/R input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.

## CONSULT-II BASIC OPERATION

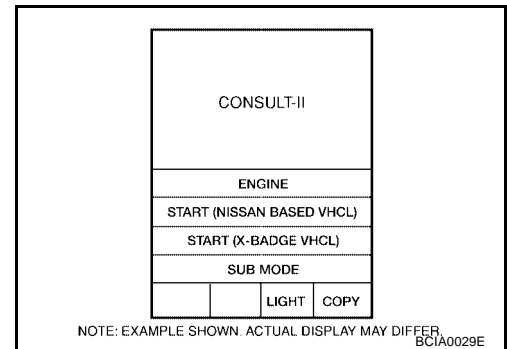
### CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carries out CAN communication.

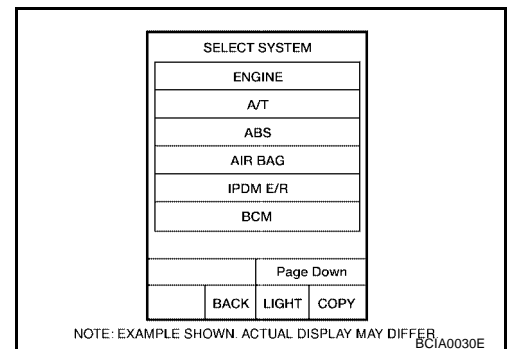
1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn ignition switch ON.



2. Touch "START (NISSAN BASED VHCL)".

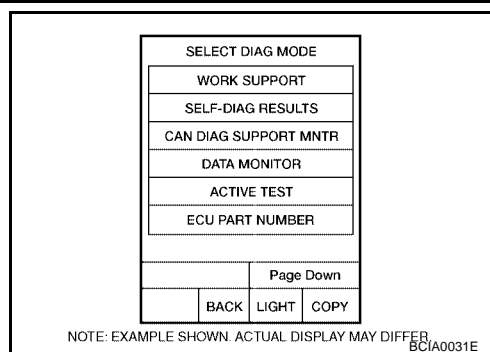


3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
  - If "IPDM E/R" is not displayed refer to [GI-40, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#).



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

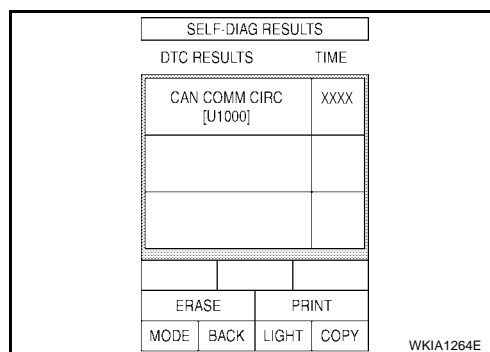
- Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



## SELF-DIAGNOSTIC RESULTS

### Operation Procedure

- Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- Self-diagnosis results are displayed.



### Display Item List

Display items	CONSULT-II display code	Malfunction detection	TIME		Possible causes
			CRNT	PAST	
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	—	—	—	—	—
CAN COMM CIRC	U1000	<ul style="list-style-type: none"> <li>If CAN communication reception/transmission data has a malfunction, or if any of the control units fail, data reception/transmission cannot be confirmed.</li> <li>When the data in CAN communication is not received before the specified time.</li> </ul>	X	X	Any of items listed below have errors: <ul style="list-style-type: none"> <li>TRANSMIT DIAG</li> <li>ECM</li> <li>BCM/SEC</li> </ul>

### NOTE:

The details for display of the period are as follows:

- CRNT: Error currently detected with IPDM E/R.
- PAST: Error detected in the past and placed in IPDM E/R memory.

## DATA MONITOR

### Operation Procedure

- Touch "DATA MONITOR" on "SELECT DIAG MODE" screen.
- Touch "ALL SIGNALS", "MAIN SIGNALS" or "SELECTION FROM MENU" on the "DATA MONITOR" screen.

ALL SIGNALS	All signals will be monitored.
MAIN SIGNALS	Monitors the predetermined item(s).
SELECTION FROM MENU	Selects and monitors individual signal(s).

- Touch "START".
- When "SELECTION FROM MENU" is selected, touch items to be monitored. When "ALL SIGNALS" is selected, all the items will be monitored. When "MAIN SIGNALS" is selected, predetermined items are monitored.

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

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5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

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

## All Signals, Main Signals, Selection From Menu

Item name	CONSULT-II screen display	Display or unit	Monitor item selection			Description
			ALL SIGNALS	MAIN SIGNALS	SELECTION FROM MENU	
Motor fan request	MOTOR FAN REQ	1/2/3/4	X	X	X	Signal status input from ECM
Compressor request	AC COMP REQ	ON/OFF	X	X	X	Signal status input from ECM
Parking, license, and tail lamp request	TAIL & CLR REQ	ON/OFF	X	X	X	Signal status input from BCM
Headlamp low beam request	HL LO REQ	ON/OFF	X	X	X	Signal status input from BCM
Headlamp high beam request	HL HI REQ	ON/OFF	X	X	X	Signal status input from BCM
Front fog request	FR FOG REQ	ON/OFF	X	X	X	Signal status input from BCM
Front wiper request	FR WIP REQ	STOP/1LOW/LOW/HI	X	X	X	Signal status input from BCM
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	X	X	X	Output status of IPDM E/R
Wiper protection	WIP PROT	OFF/Block	X	X	X	Control status of IPDM E/R
Starter request	ST RLY REQ	ON/OFF	X		X	Status of input signal <sup>NOTE</sup>
Ignition relay status	IGN RLY	ON/OFF	X	X	X	Ignition relay status monitored with IPDM E/R
Rear defogger request	RR DEF REQ	ON/OFF	X	X	X	Signal status input from BCM
Oil pressure switch	OIL P SW (*1)	OPEN/CLOSE	X		X	Signal status input from IPDM E/R
Hood switch	HOOD SW	OFF	X			Signal status input from IPDM E/R
Theft warning horn request	THFT HRN REQ	ON/OFF	X		X	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	X		X	Output status of IPDM E/R
Daytime running lamp request	DTRL REQ	ON/OFF	X		X	Signal status input from BCM

### NOTE:

- Perform monitoring of IPDM E/R data with the ignition switch ON. When the ignition switch is in ACC position, display may not be correct.
- (\*1) This item is displayed, but does not function.

## ACTIVE TEST

### Operation Procedure

1. Touch "ACTIVE TEST" on "SELECT DIAG-MODE" screen.
2. Touch item to be tested, and check operation.
3. Touch "START".
4. Touch "STOP" while testing to stop the operation.

Test name	CONSULT-II screen display	Description
Rear defogger output	REAR DEFOGGER	With a certain ON-OFF operation, the rear defogger relay can be operated.
Front wiper (HI, LO) output	FRONT WIPER	With a certain operation (OFF, HI ON, LO ON), the front wiper relay (Lo, Hi) can be operated.
Cooling fan output	MOTOR FAN	With a certain operation (1, 2, 3, 4), the cooling fan can be operated.

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

Test name	CONSULT-II screen display	Description
Lamp (HI, LO, TAIL, FOG) output	EXTERNAL LAMPS	With a certain operation (OFF, HI ON, LO ON, TAIL ON, FOG ON), the lamp relay (Low, High, Tail, Fog) can be operated.
Cornering lamp output	CORNERING LAMP	—
Horn output	HORN	With a certain ON-OFF operation, the horn relay can be operated.

## Auto Active Test DESCRIPTION

EKS00BN6

- In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:
  - Rear window defogger
  - Front wipers
  - Tail and parking lamps
  - Front fog lamps
  - Headlamps (Hi, Lo)
  - A/C compressor (magnet clutch)
  - Cooling fan

## OPERATION PROCEDURE

1. Close hood and front door RH, and lift wiper arms away from windshield (to prevent glass damage by wiper operation).

### NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

2. Turn ignition switch OFF.
3. Turn ignition switch ON and, within 20 seconds, press front door switch LH 10 times. Then turn ignition switch OFF.
4. Turn ignition switch ON within 10 seconds after ignition switch OFF.
5. When auto active test mode is actuated, horn chirps once.
6. After a series of operations is repeated three times, auto active test is completed.

### NOTE:

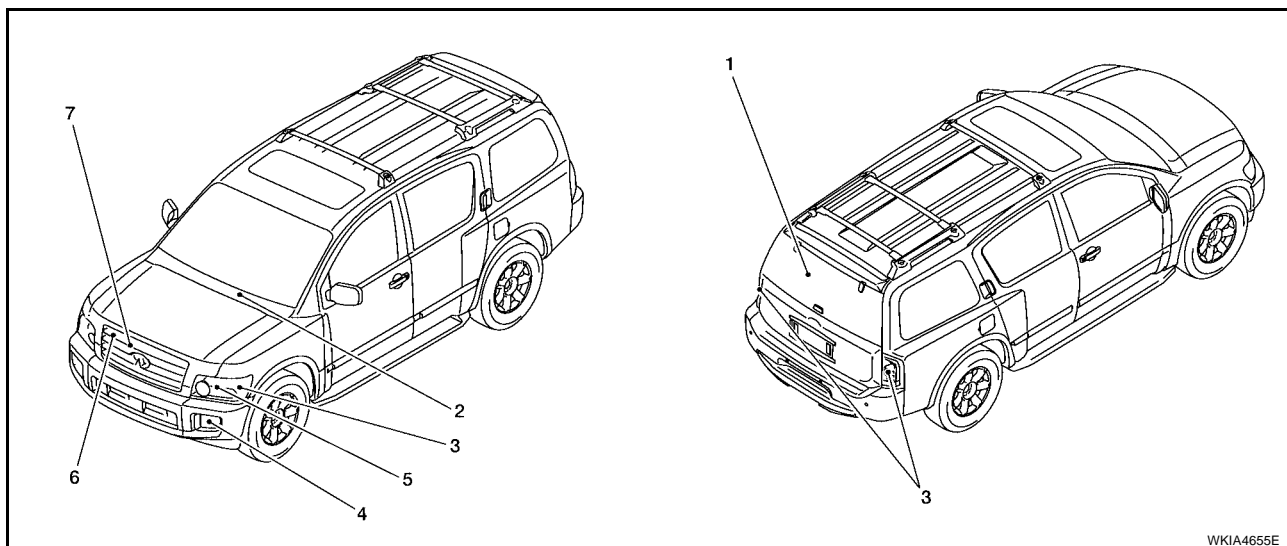
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

### CAUTION:

Be sure to perform [BL-92, "Door Switch Check"](#) when the auto active test cannot be performed.

## INSPECTION IN AUTO ACTIVE TEST MODE

- When auto active test mode is actuated, the following seven steps are repeated three times.



WKIA4655E



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

Item Number	Test Item	Operation Time/Frequency
1	Rear window defogger	10 seconds
2	Front wipers	LOW 5 seconds then HIGH 5 seconds
3	Tail, license, and parking lamps	10 seconds
4	Front fog lamps	10 seconds
5	Headlamps	Low on for 10 seconds. High on-off five times.
6	A/C compressor (magnetic clutch)	ON-OFF 5 times
7	Cooling fan	10 seconds

## Concept of Auto Active Test

- IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.
- If any of the systems controlled by IPDM E/R cannot be operated, possible cause can be easily diagnosed using auto active test.

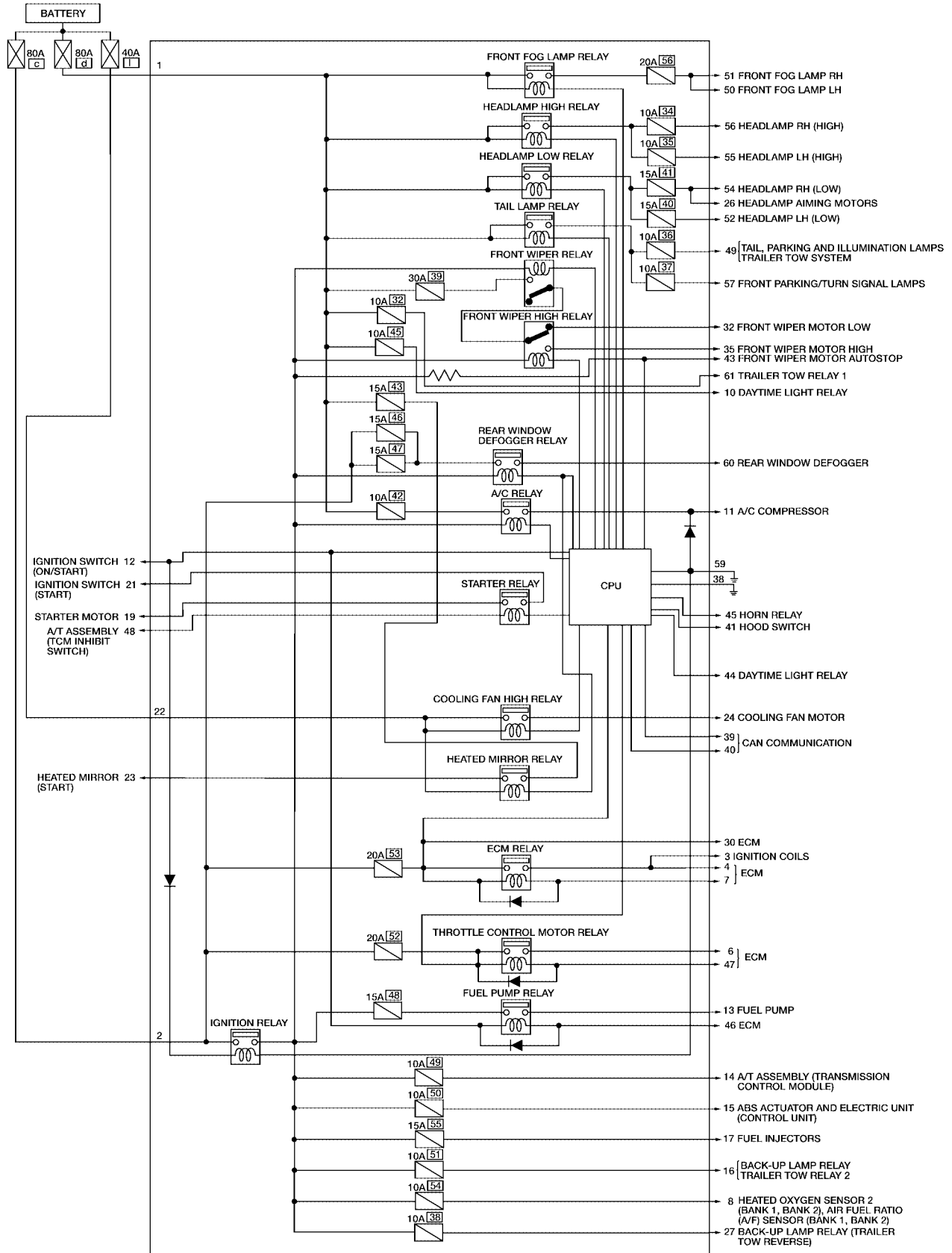
Diagnosis chart in auto active test mode

Symptom	Inspection contents	Possible cause
Rear window defogger does not operate.	YES	● BCM signal input circuit
	NO	● Rear window defogger relay ● Open circuit of rear window defogger ● IPDM E/R malfunction ● Harness or connector malfunction between IPDM E/R and rear window defogger
Any of front wipers, tail and parking lamps, front fog lamps, and headlamps (Hi, Lo) do not operate.	YES	● BCM signal input system
	NO	● Lamp/wiper motor malfunction ● Lamp/wiper motor ground circuit malfunction ● Harness/connector malfunction between IPDM E/R and system in question ● IPDM E/R (integrated relay) malfunction
A/C compressor does not operate.	YES	● BCM signal input circuit ● CAN communication signal between BCM and ECM ● CAN communication signal between ECM and IPDM E/R
	NO	● Magnet clutch malfunction ● Harness/connector malfunction between IPDM E/R and magnet clutch ● IPDM E/R (integrated relay) malfunction
Cooling fan does not operate.	YES	● ECM signal input circuit ● CAN communication signal between ECM and IPDM E/R
	NO	● Cooling fan motor malfunction ● Harness/connector malfunction between IPDM E/R and cooling fan motor ● IPDM E/R (integrated relay) malfunction

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

EKS00BN7

## Schematic

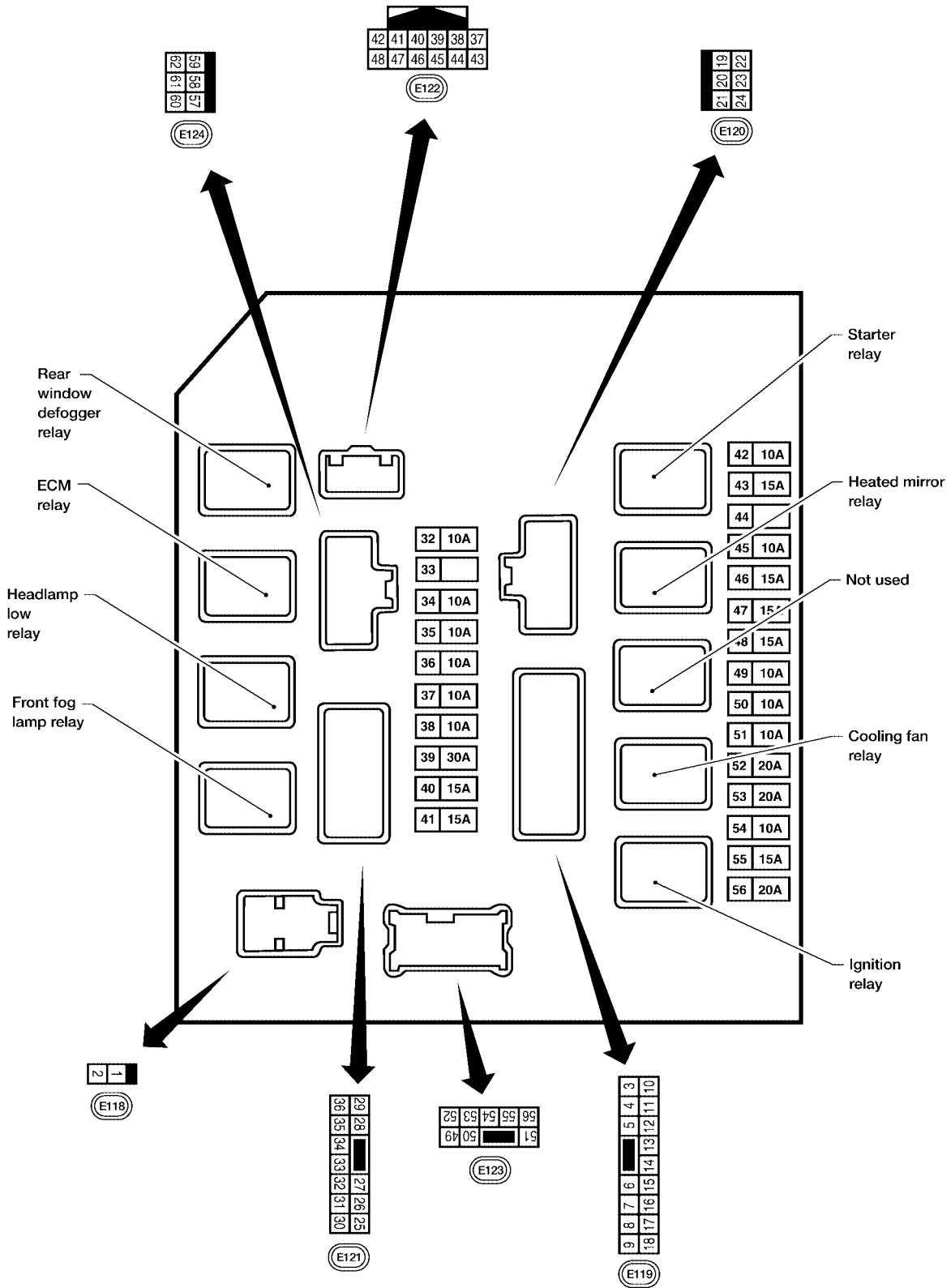


WKWA3831E

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

## IPDM E/R Terminal Arrangement

EKS00BN8



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

EKS00BN9

## IPDM E/R Power/Ground Circuit Inspection

### 1. FUSE AND FUSIBLE LINK INSPECTION

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

Terminal No.	Signal name	Fuse, fusible link No.
1, 2	Battery power	a, c, d

OK or NG

- OK >> GO TO 2.
- NG >> Replace fuse or fusible link.

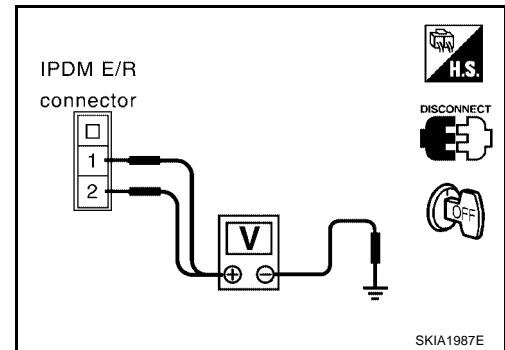
### 2. POWER CIRCUIT INSPECTION

1. Disconnect IPDM E/R harness connector E118.
2. Check voltage between IPDM E/R harness connector E118 terminals 1, 2 and ground.

**Battery voltage should exist.**

OK or NG

- OK >> GO TO 3.
- NG >> Repair or replace IPDM E/R power circuit harness.



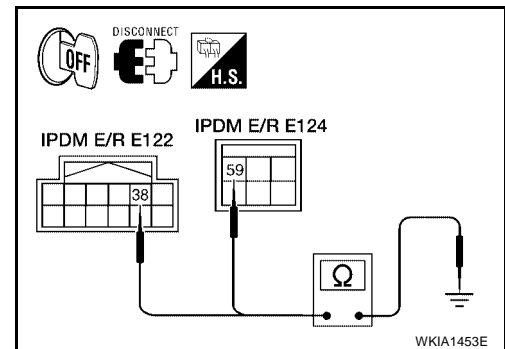
### 3. GROUND CIRCUIT INSPECTION

1. Disconnect IPDM E/R harness connectors E122 and E124.
2. Check continuity between IPDM E/R harness connector E122 terminal 38, and E124 terminal 59 and ground.

**Continuity should exist.**

OK or NG

- OK >> Inspection End.
- NG >> Repair or replace IPDM E/R ground circuit harness.



## Inspection with CONSULT-II (Self-Diagnosis)

**CAUTION:**

If a CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on which control unit(s) carry out CAN communication.

### 1. SELF-DIAGNOSIS RESULT CHECK

1. Connect CONSULT-II and select "IPDM E/R" on the Diagnosis System Selection screen.
2. Select "SELF-DIAG RESULTS" on the diagnosis mode selection screen.
3. Check display content in self-diagnosis results.

CONSULT-II Display	CONSULT-II display code	TIME		Details of diagnosis result
		CRNT	PAST	
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	—	—	—	No malfunction
CAN COMM CIRC	U1000	X	X	Any of items listed below have errors: <ul style="list-style-type: none"> <li>● TRANSMIT DIAG</li> <li>● ECM</li> <li>● BCM/SEC</li> </ul>

**NOTE:**

The Details for Display for the Period are as follows:

- CRNT: Error currently detected by IPDM E/R.
- PAST: Error detected in the past and stored in IPDM E/R memory.

Contents displayed

NO DTC DETECTED. FURTHER TESTING MAY BE REQUIRED.>>Inspection End.

CAN COMM CIRC>>Print out the self-diagnosis result and refer to [LAN-26, "CAN COMMUNICATION"](#) .

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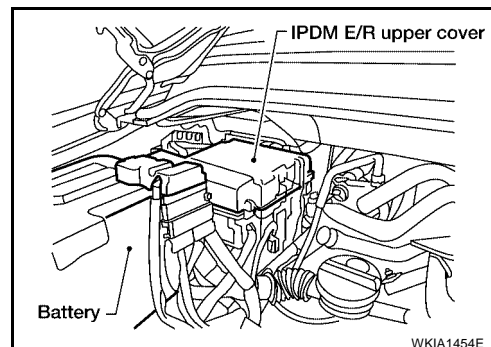
# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

EKS00BNB

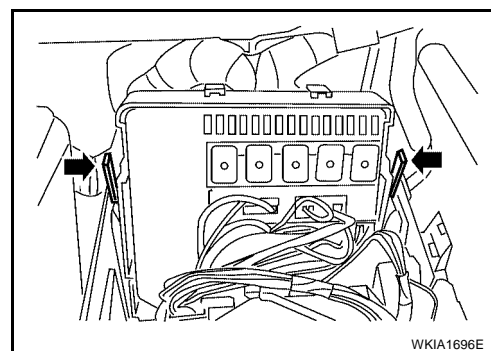
## Removal and Installation of IPDM E/R

### REMOVAL

1. Disconnect negative battery cable.
2. Remove IPDM E/R upper cover.



3. Release 2 clips and pull IPDM E/R up from case.
4. Disconnect IPDM E/R connectors and remove the IPDM E/R.



### INSTALLATION

Installation is in the reverse order of removal.

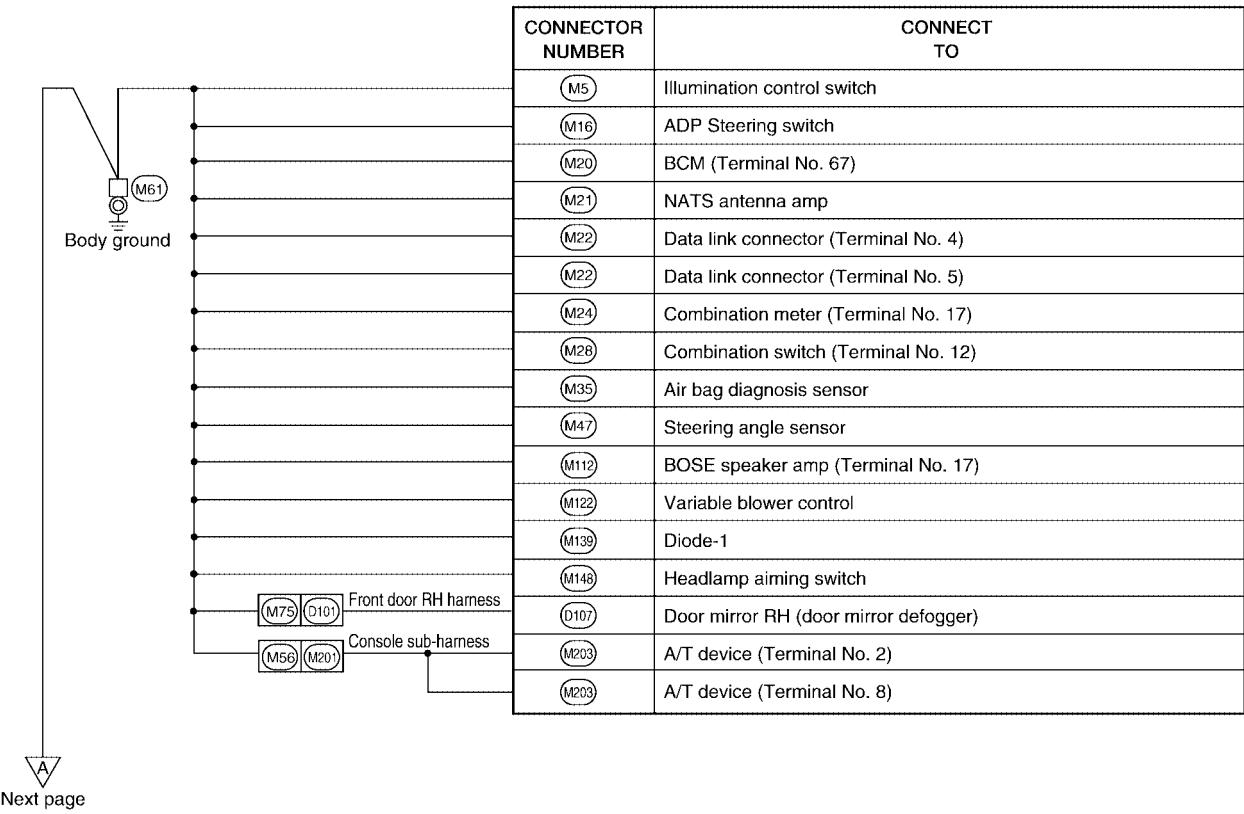
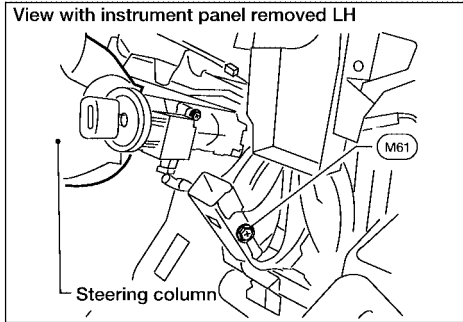
# GROUND CIRCUIT

PFP:24080

EKS00BNC

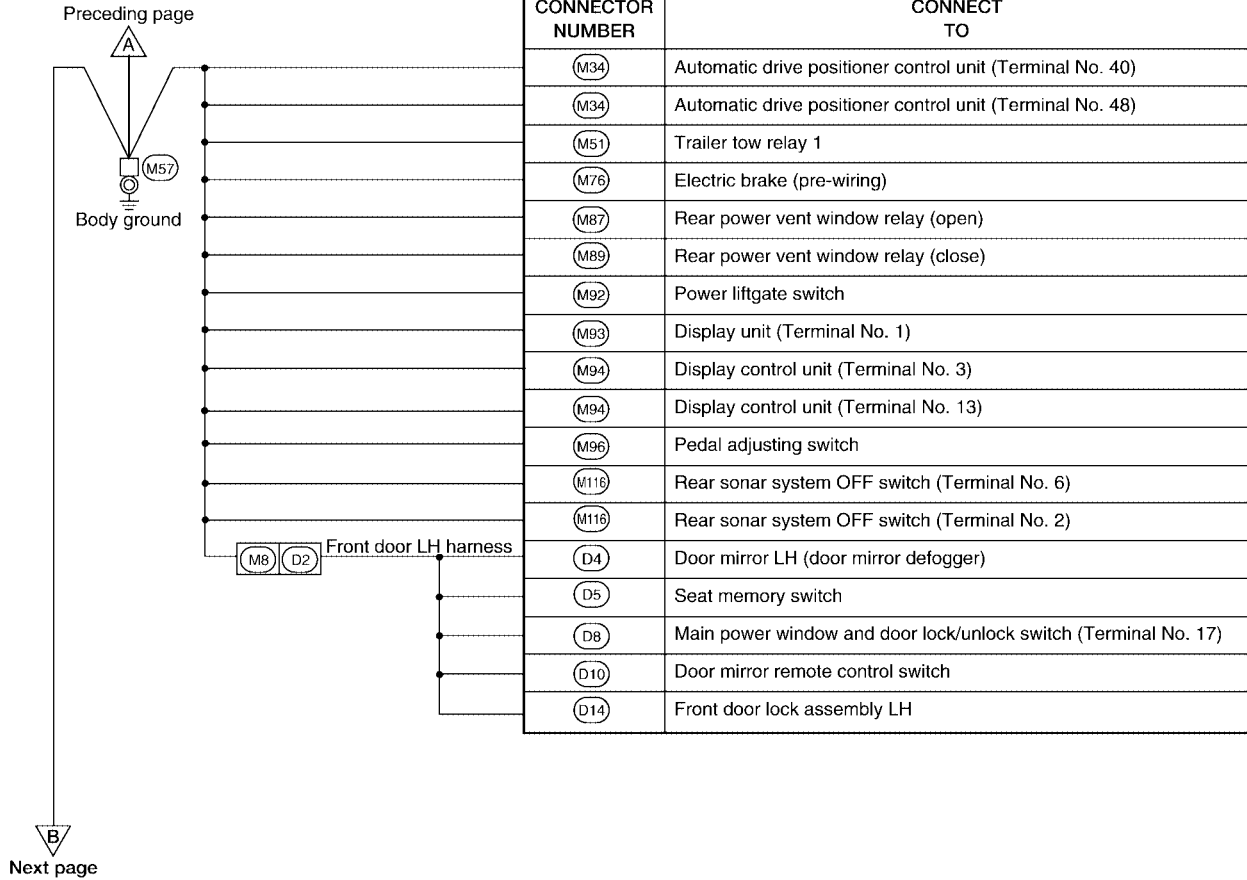
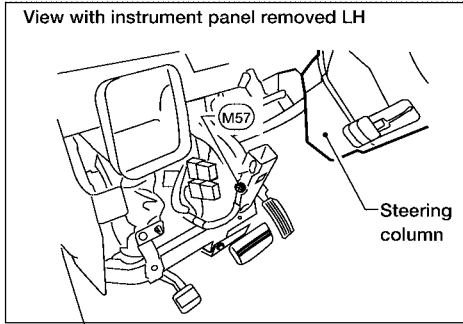
## GROUND CIRCUIT

### Ground Distribution MAIN HARNESS



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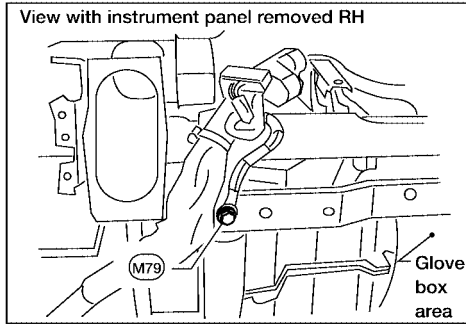
# GROUND CIRCUIT



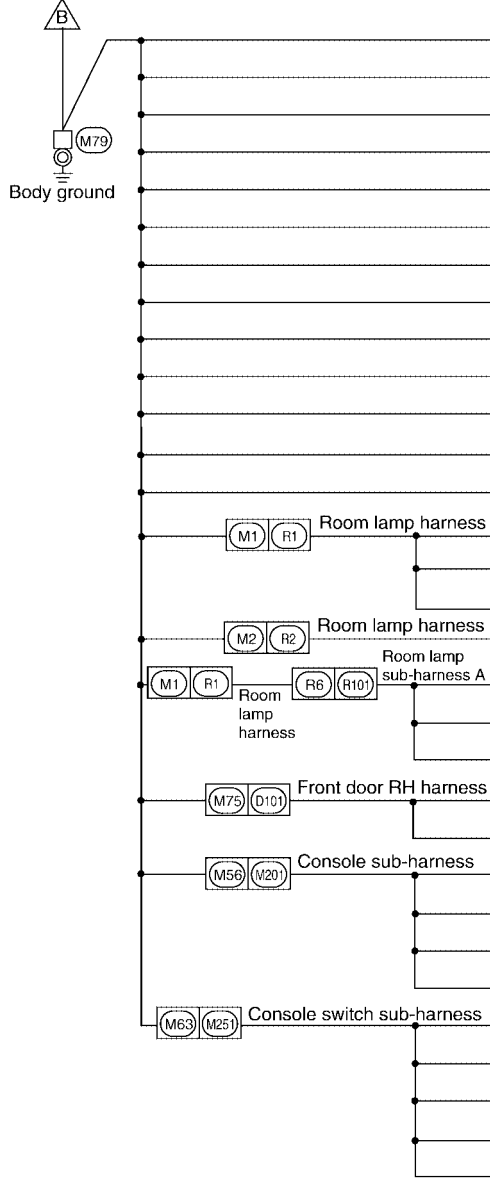
WKIA4658E



# GROUND CIRCUIT



Preceding page



CONNECTOR NUMBER	CONNECT TO
(M3)	Fuse block J/B (Terminal No. 7N)
(M13)	Front passenger air bag off indicator
(M49)	Front air control (Terminal No. 1)
(M52)	Rear blower switch (front)
(M53)	Front power socket LH
(M54)	Front power socket RH (for cigarette lighter)
(M55)	Hazard switch
(M59)	Glove box lamp
(M67)	Tow mode switch (Terminal No. 2)
(M67)	Tow mode switch (Terminal No. 6)
(M81)	Shift lock control unit
(M98)	AV switch
(M149)	Clock
(R3)	Vanity lamp LH
(R7)	Auto anti-dazzling inside mirror
(R8)	Vanity lamp RH
(R4)	Sunroof motor
(R102)	Front room/map lamp assembly
(R103)	Rear power vent window switch
(R106)	HOMELINK universal transceiver
(D105)	Power window and door lock/unlock switch RH
(D107)	Door mirror RH (door mirror defogger)
(M206)	DVD player (Terminal No. 22)
(M207)	Console power socket
(M208)	Rear heated seat switch LH
(M209)	Rear heated seat switch RH
(M252)	Front heated seat switch RH
(M253)	VDC OFF switch
(M254)	Tow mode switch (Terminal No. 2)
(M254)	Tow mode switch (Terminal No. 6)
(M255)	Front heated seat switch LH

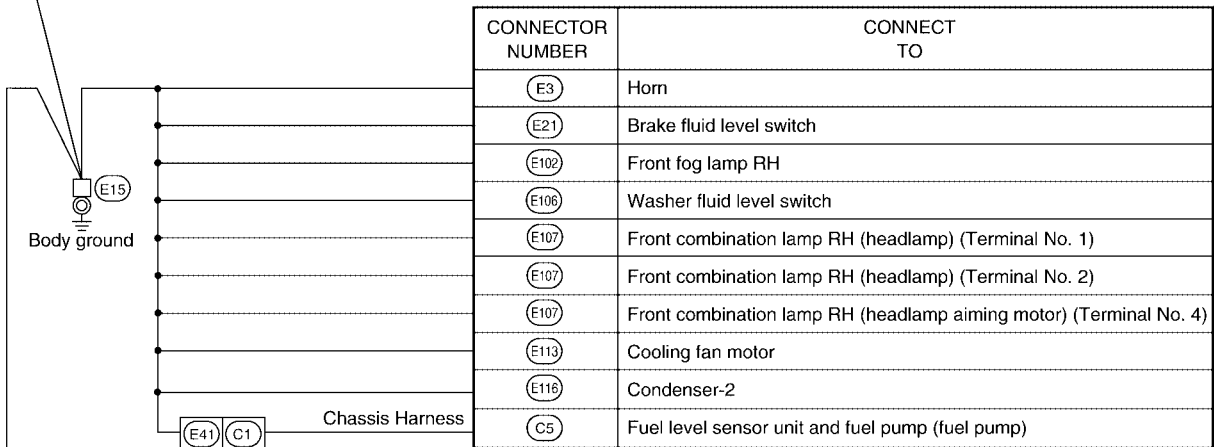
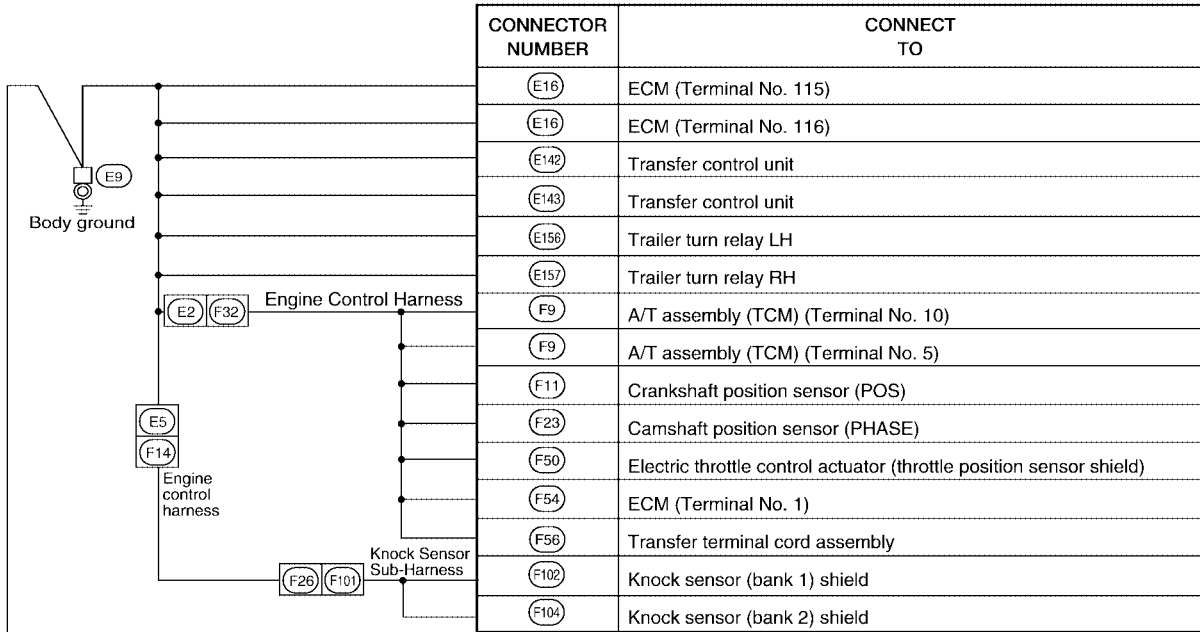
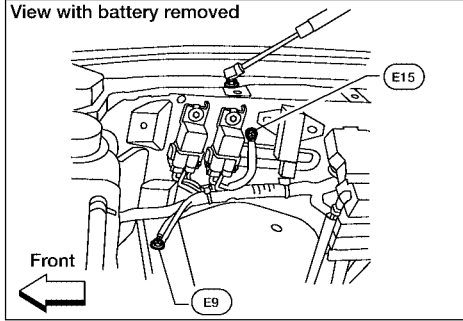
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# GROUND CIRCUIT

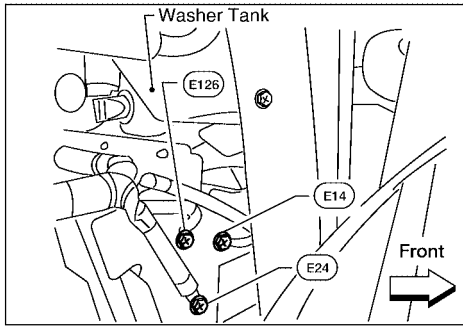
## ENGINE ROOM HARNESS



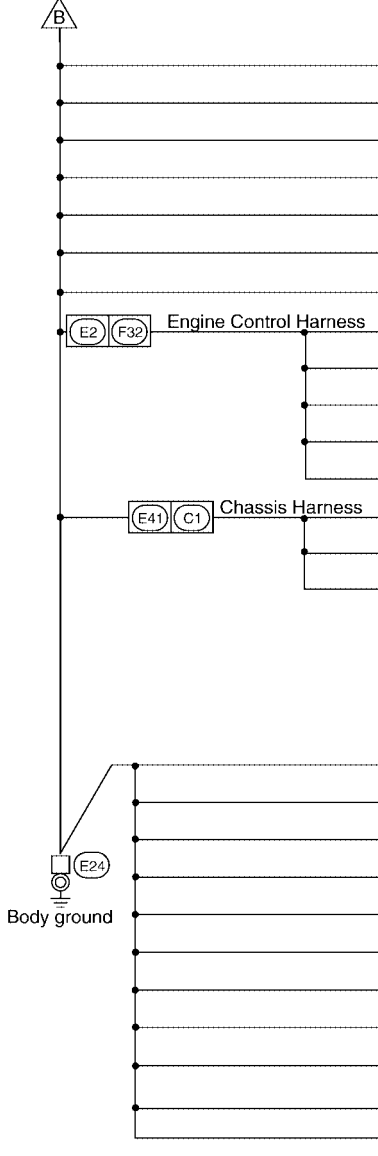
Next page

WKIA4660E

# GROUND CIRCUIT



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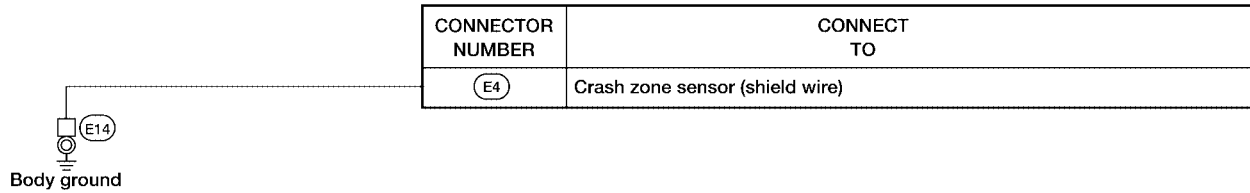
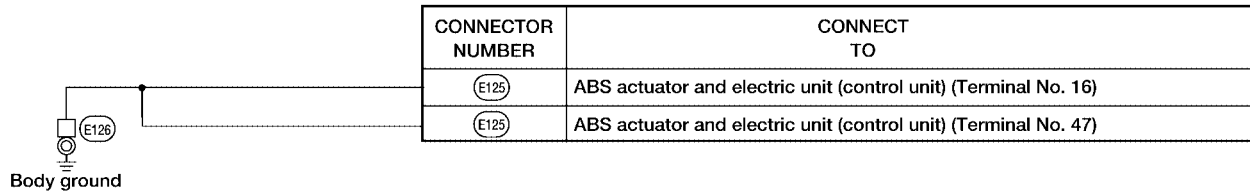
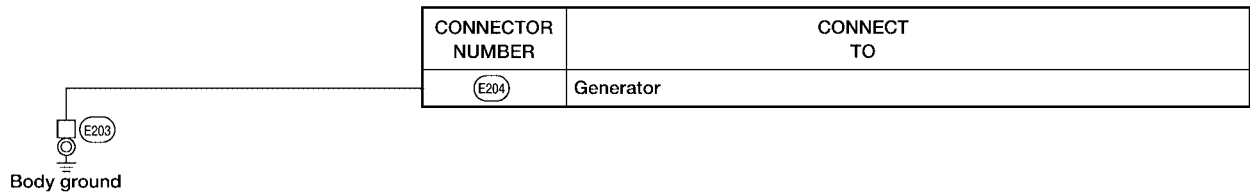
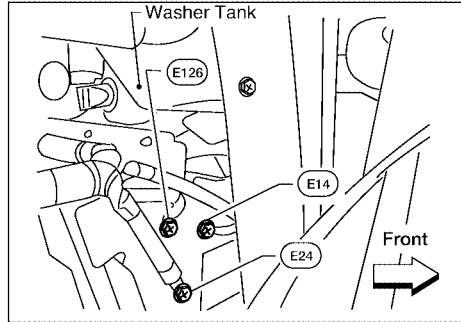
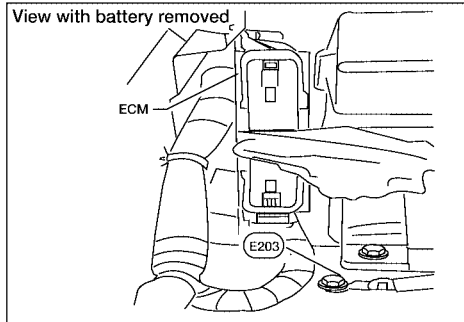


CONNECTOR NUMBER	CONNECT TO
(E46)	Transfer shift high relay (Terminal No. 2)
(E46)	Transfer shift high relay (Terminal No. 4)
(E47)	Transfer shift low relay (Terminal No. 2)
(E47)	Transfer shift low relay (Terminal No. 4)
(E130)	Compressor motor relay
(E140)	Trailer tow relay 2
(E142)	Transfer control unit
(E2, F32)	Engine Control Harness
(F55)	ATP switch
(F57)	Transfer motor
(F58)	Transfer control device (actuator position switch) (Terminal No. 22)
(F59)	Wait detection switch
(F60)	Neutral-4LO switch
(E41, C1)	Chassis Harness
(C2)	Trailer
(C9)	Suspension air compressor (Terminal No. 1)
(C9)	Suspension air compressor (Terminal No. 2)

CONNECTOR NUMBER	CONNECT TO
(E6)	Hood switch
(E11)	Front combination lamp LH (headlamp) (Terminal No. 1)
(E11)	Front combination lamp LH (headlamp) (Terminal No. 2)
(E11)	Front combination lamp LH (headlamp aiming motor) (Terminal No. 4)
(E23)	Front wiper motor
(E42)	ICC sensor
(E101)	Front fog lamp LH
(E103)	Daytime light relay
(E122)	IPDM E/R
(E124)	IPDM E/R
(E134)	ICC brake hold relay

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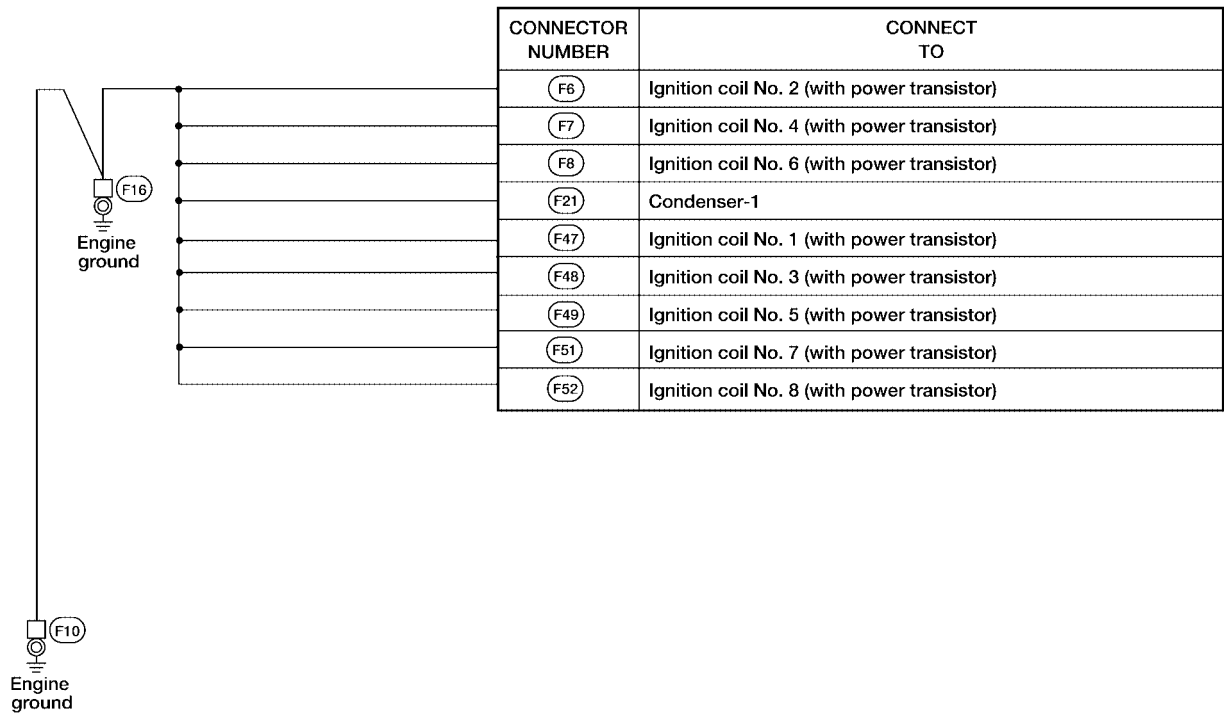
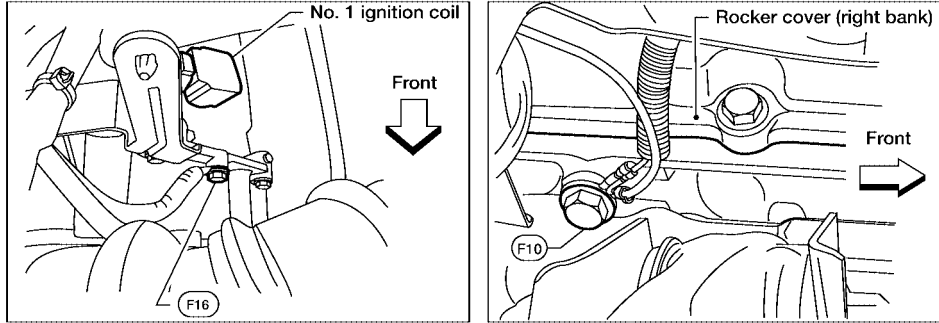
# GROUND CIRCUIT



WKIA4662E

# GROUND CIRCUIT

## ENGINE CONTROL HARNESS

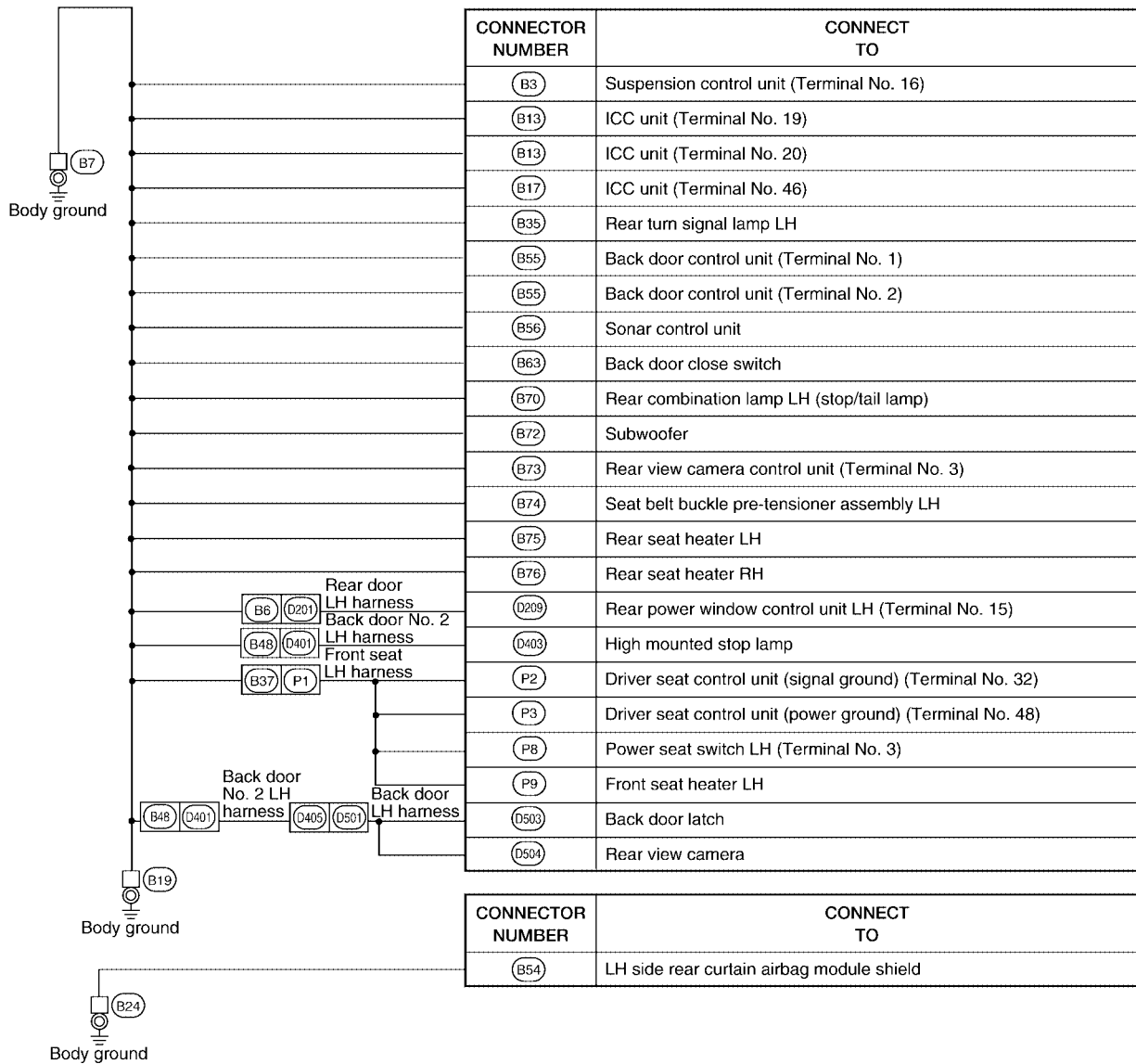
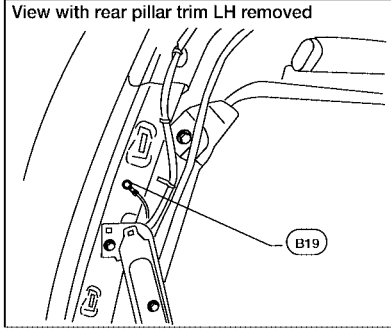
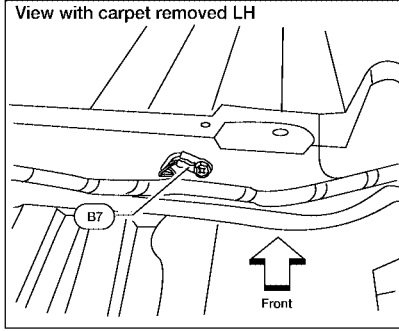


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# GROUND CIRCUIT

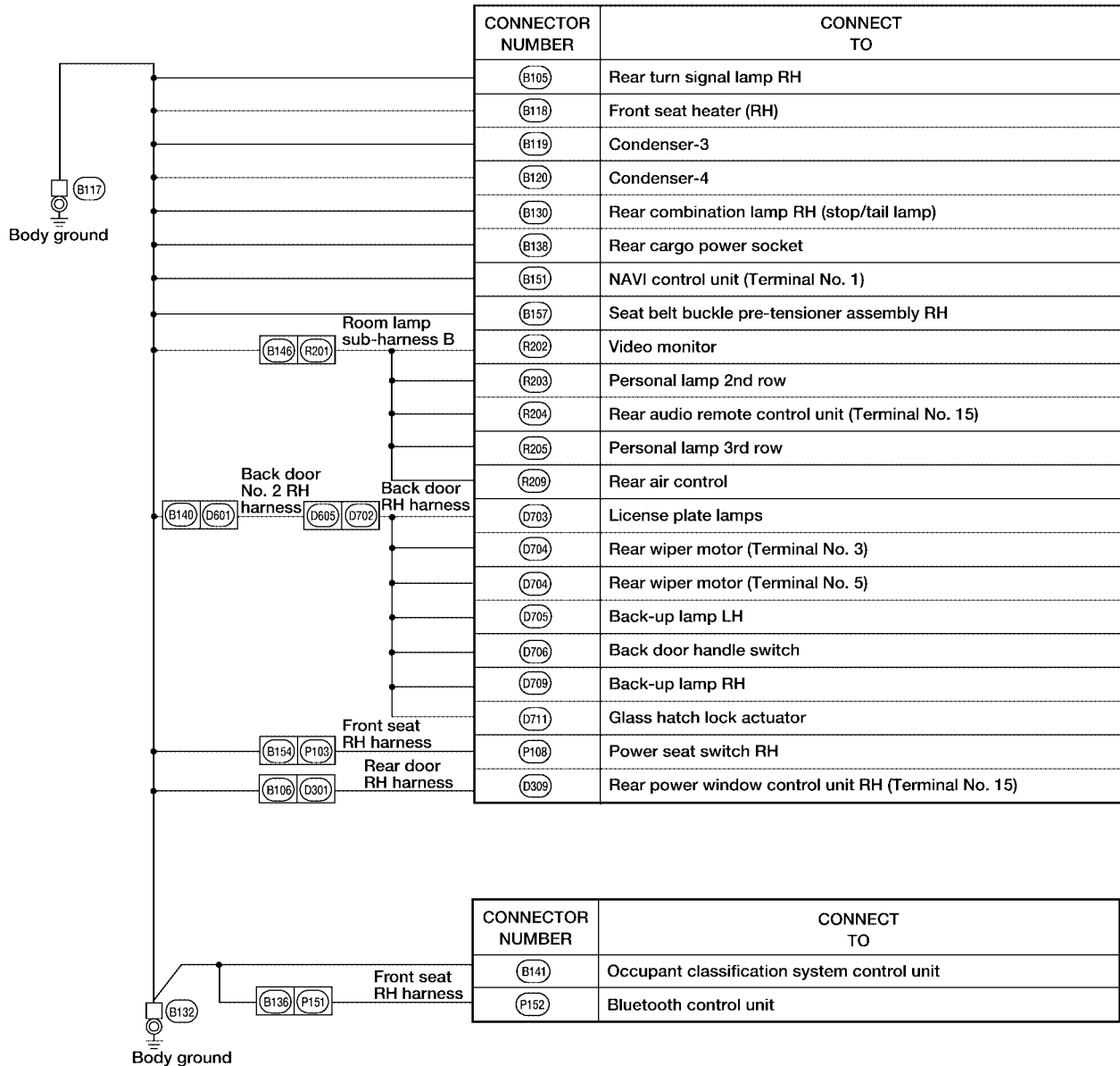
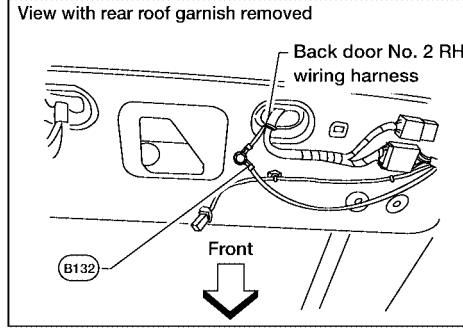
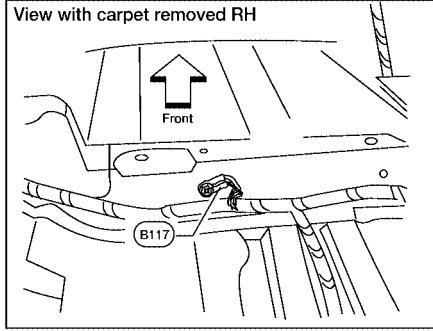
## BODY HARNESS



WKIA4664E

# GROUND CIRCUIT

## BODY NO. 2 HARNESS



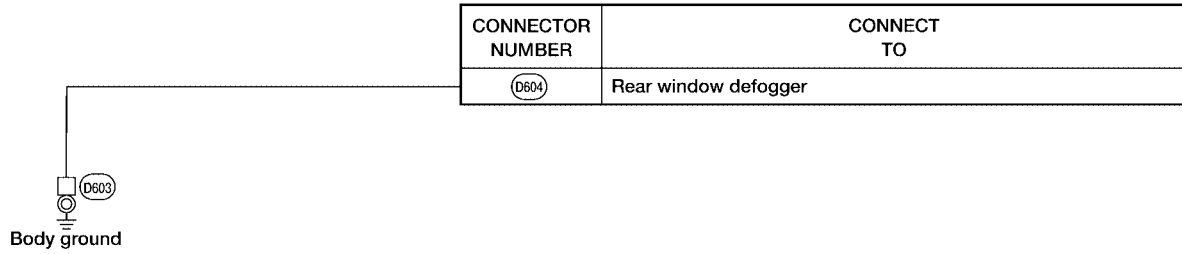
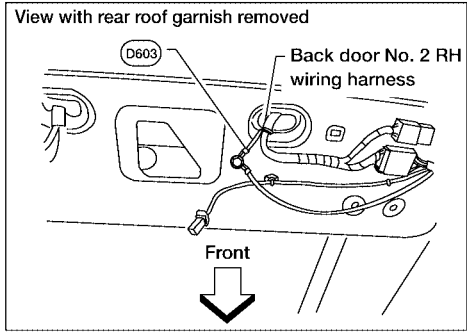
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# GROUND CIRCUIT

## BACK DOOR NO. 2 RH HARNESS



WKIA4666E



# HARNESS

PFP:24010

EKS00BND

## HARNESS

### Harness Layout

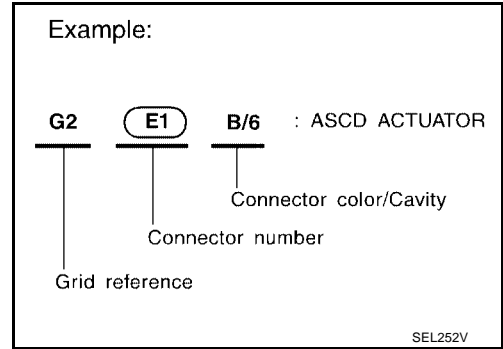
#### HOW TO READ HARNESS LAYOUT

The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Main Harness
- Engine Room Harness LH View (Engine Compartment)
- Engine Room Harness RH View (Engine Compartment)
- Engine Control Harness
- Chassis Harness and Rear Sonar Sensor Sub-harness
- Body Harness
- Body No. 2 Harness

#### To use the grid reference

1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.



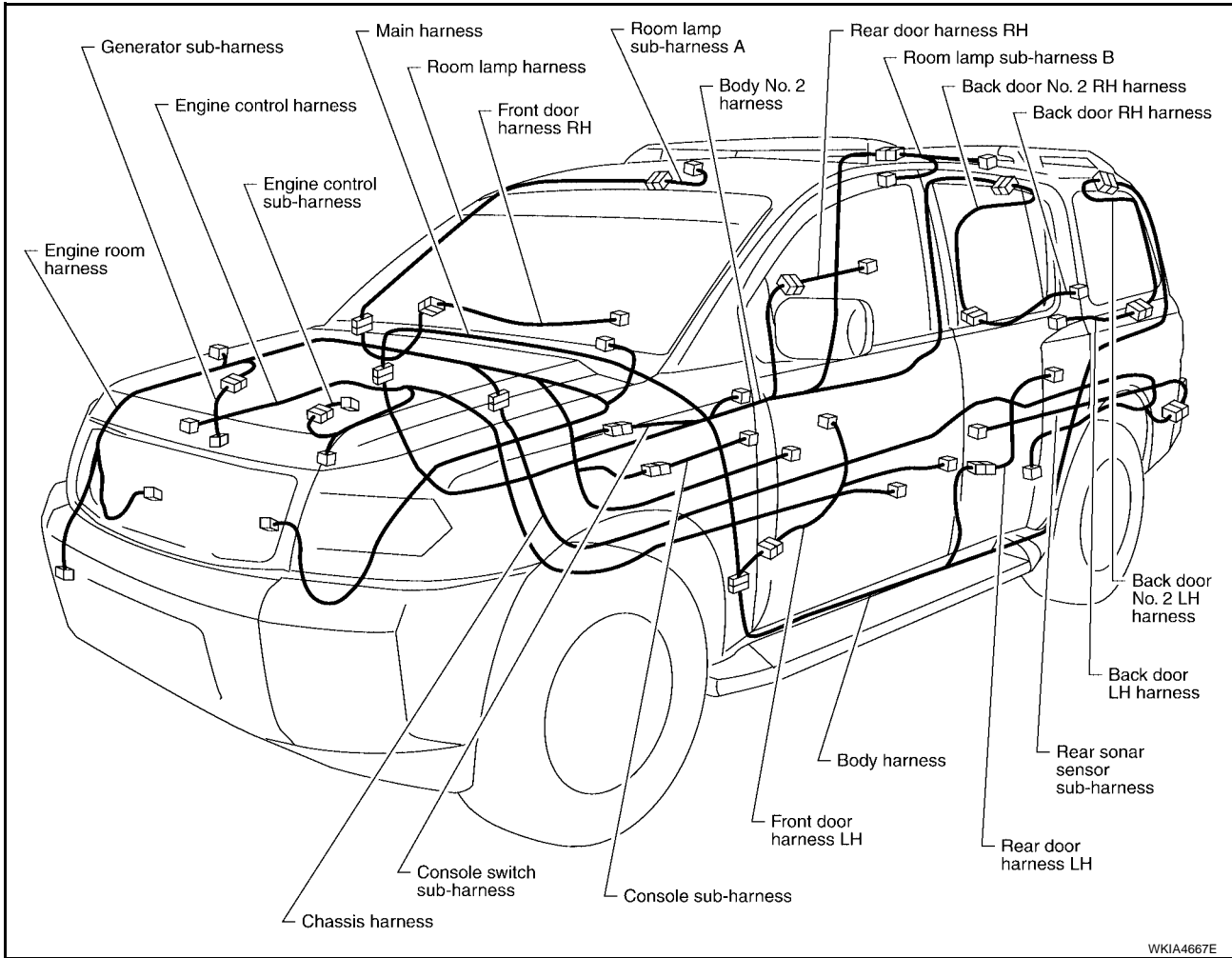
#### CONNECTOR SYMBOL

Main symbols of connector (in Harness Layout) are indicated below.

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
<ul style="list-style-type: none"> <li>● Cavity: 4 or Less</li> <li>● Relay connector</li> </ul>				
<ul style="list-style-type: none"> <li>● Cavity: From 5 to 8</li> </ul>				
<ul style="list-style-type: none"> <li>● Cavity: 9 or More</li> </ul>				
<ul style="list-style-type: none"> <li>● Ground terminal etc.</li> </ul>	—			

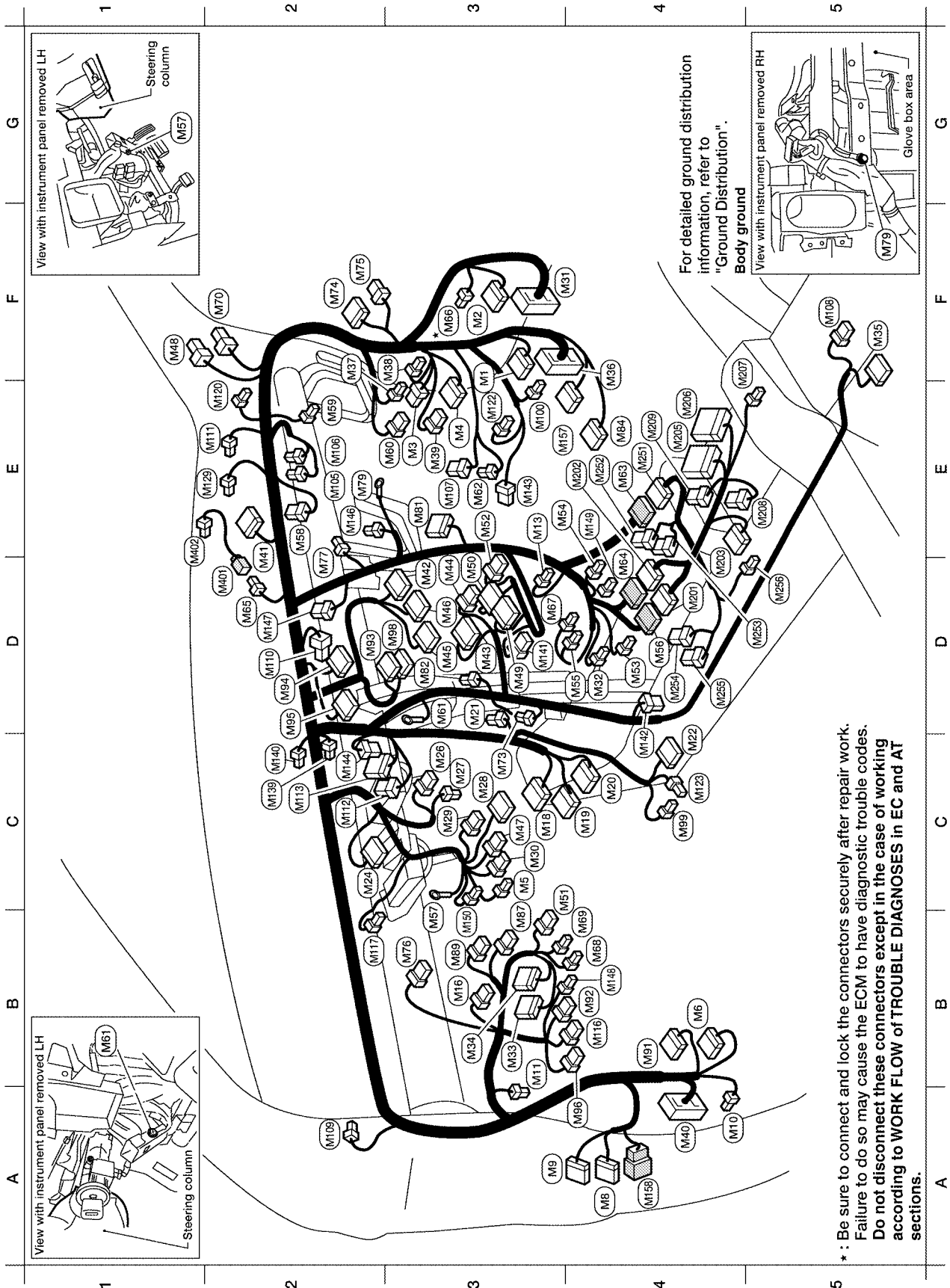
# HARNESS

## OUTLINE



# HARNESS

## MAIN HARNESS



\* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

WKIA4668E

# HARNESSES

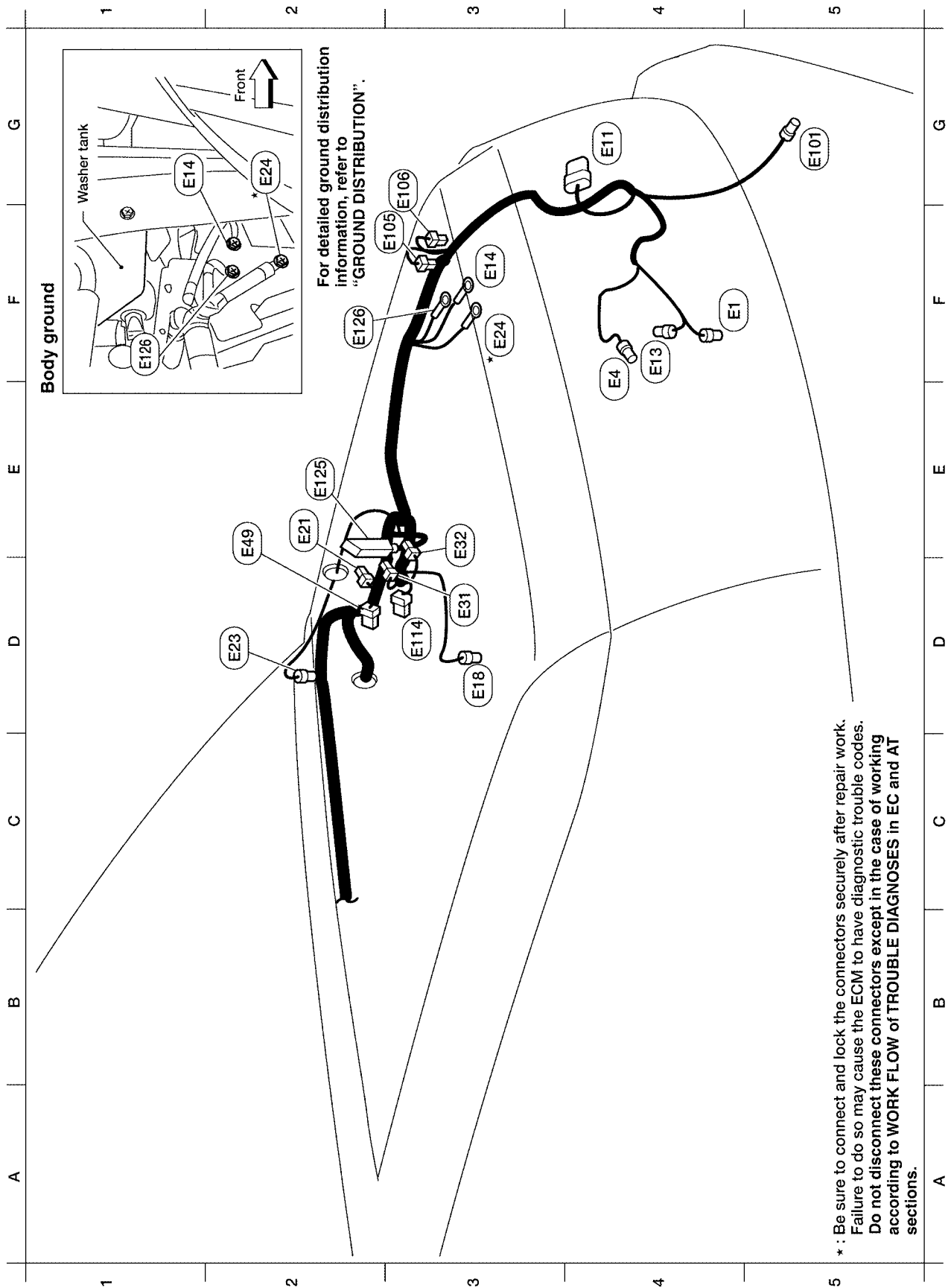
F3	M1	W/16	: To (R1)	E3	M52	E3	: Rear blower switch (front)	F5	M109	B/6	: Yaw rate/side/decibel G sensor
F3	M2	W/12	: To (R2)	D4	M53	B/2	: Front power socket LH	A2	M109	BR/2	: Front tweeter LH
E3	M3	W/8	: Fuse block (J/B)	E3	M54	B/2	: Front power socket RH (for cigarette lighter)	D2	M110	BR/2	: Center speaker
E3	M4	W/16	: Fuse block (J/B)	D4	M55	W/4	: Hazard switch	E2	M111	BR/2	: Front tweeter RH
C3	M5	W/3	: Illumination control switch	D4	M56	W/16	: To (E20)	C2	M112	W/8	: BOSE speaker amp.
B4	M6	W/10	: To (E10)	D4	M56	W/16	: To (M201)	C2	M113	L/24	: BOSE speaker amp.
A4	M6	W/16	: To (D2)	B3	M57	-	: Body ground	B4	M116	GR/8	: Rear sonar system OFF switch
A3	M9	BR/24	: To (D1)	E2	M58	B/6	: Intake door motor	B2	M117	B/2	: Sonar buzzer
A4	M10	Y/4	: To (E25)	E2	M59	BR/2	: Glove box lamp	E2	M120	W/4	: Remote keyless entry receiver
B3	M11	B/1	: Parking brake switch	E3	M60	W/6	: Fuse block (J/B)	E3	M122	W/4	: Variable blower control
E3	M13	W/3	: Front passenger air bag off indicator	D3	M61	-	: Body ground	C4	M123	W/2	: Tire pressure warning check connector
B3	M16	GR/6	: ADP steering switch	E3	M62	B/2	: Front blower motor	E2	M128	BR/1	: Satellite radio tuner (with Sirius satellite radio)
C3	M18	W/40	: BCM (body control module)	E4	M63	BR/20	: To (M25)	E2	M128	V/1	: Satellite radio tuner (with XM satellite radio)
C4	M19	W/15	: BCM (body control module)	D4	M64	BR/24	: To (M22)	C2	M139	B/2	: Diode-1
C4	M20	B/15	: BCM (body control module)	D2	M65	W/4	: To (M10)	C2	M140	B/2	: Diode-2
D3	M21	W/4	: NATS antenna amp.	F3	M66	B/1	: To (E33)	D3	M141	W/8	: 4WD shift switch
C4	M22	W/16	: Data link connector	B4	M67	GR/8	: Tow mode switch	C4	M142	B/6	: Mode door motor
C2	M24	W/40	: Combination meter	B4	M68	W/2	: Tilt motor	E3	M143	B/6	: Air mix door motor (passenger)
C3	M26	W/6	: Ignition switch	B4	M69	W/3	: Tilt motor	C2	M144	B/6	: Defroster door motor
C3	M27	W/4	: Key switch and key lock solenoid	F2	M70	BR/1	: To (M35) (with Sirius satellite radio)	E2	M146	GR/2	: Intake sensor
C3	M28	W/16	: Combination switch	F2	M70	V/1	: To (M35) (with XM satellite radio)	D2	M147	B/6	: Air mix door motor (driver)
C3	M29	Y/6	: Combination switch (spiral cable)	C3	M73	BR/6	: Back-up lamp relay	B4	M148	W/4	: Headlamp aiming switch
C3	M30	GR/8	: Combination switch (spiral cable)	F2	M74	BR/20	: To (D12)	E4	M149	W/4	: Clock
F3	M31	SMJ	: To (E13)	F2	M75	W/8	: To (D10)	B3	M150	W/2	: Ignition keyhole illumination
D4	M32	W/4	: In-vehicle sensor	B3	M76	W/6	: Electric brake (pre-wiring)	E4	M157	W/20	: To (E16)
B3	M33	W/32	: Automatic drive positioner control unit	D2	M77	Y/4	: Front passenger air bag module (service replacement)	A4	M158	W/8	: To (D3)
B3	M34	W/16	: Automatic drive positioner control unit	E2	M79	-	: Body ground	Console sub-harness			
F5	M35	Y/28	: Air bag diagnosis sensor unit	E3	M81	GR/10	: Shift lock control unit	D4	M207	W/16	: To (M55)
F4	M36	SMJ	: To (E14)	D3	M82	GR/2	: Circuit breaker-2	E4	M209	BR/24	: To (M54)
F2	M37	B/1	: Fuse block (J/B)	E3	M84	W/16	: To (E10)	D4	M209	W/12	: A/T device
F2	M38	B/2	: Fuse block (J/B)	B3	M87	B/5	: Rear power vent window relay (open)	E4	M205	GR/16	: DVD player
E3	M38	W/8	: Fuse block (J/B)	B3	M89	B/5	: Rear power vent window relay (close)	E4	M209	L/16	: DVD player
A4	M40	SMJ	: To (E6)	B4	M91	W/16	: To (E26)	F4	M207	B/2	: Console power socket
E2	M41	W/16	: Satellite radio tuner (or pre-wiring for satellite radio)	B4	M92	GR/6	: Power liftgate switch	E5	M209	BR/6	: Rear heated seat switch LH
D3	M42	W/16	: Audio unit	D2	M93	W/24	: Display unit	E4	M205	BR/6	: Rear heated seat switch RH
D3	M43	W/10	: Audio unit	D2	M94	W/24	: Display control unit	E4	M205	BR/6	: Front heated seat switch RH
D3	M44	W/6	: Audio unit	C2	M95	W/32	: Display control unit	D5	M205	GR/6	: VDC OFF switch
D3	M45	W/16	: Audio unit	A4	M96	BR/6	: Pedal adjusting switch	D4	M204	GR/8	: Tow mode switch
D3	M46	W/20	: Audio unit	C3	M99	W/24	: AV switch	D4	M205	BR/6	: Front heated seat switch LH
C3	M47	W/8	: Steering angle sensor	D4	M98	BR/2	: Foot lamp LH	D5	M205	B/2	: A/T device illumination
F1	M48	BR/2	: To (M31)	E3	M100	BR/2	: Foot lamp RH	Optical sensor sub-harness			
D3	M49	B/26	: Front air control	E2	M105	Y/2	: Front passenger air bag module	D2	M407	W/4	: To (M55)
D3	M50	W/18	: Front air control	E2	M106	O/2	: Front passenger air bag module	E2	M402	B/4	: Optical sensor
B3	M51	L/4	: Trailer tow relay 1	E3	M107	BR/6	: Front blower motor relay	* : Refer to previous page			

WKIA4669E

# HARNESS

## ENGINE ROOM HARNESS (LH VIEW)

### Engine Compartment



\* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

WKIA4670E

Refer to [PG-48, "ENGINE ROOM HARNESS \(RH VIEW\)"](#) for continuation of engine room harness.

# HARNESS

F4	(E1)	GR/2	: Ambient sensor
E4	(E4)	Y/2	: Crash zone sensor
G4	(E11)	B/8	: Front combination lamp LH
F4	(E13)	GR/2	: Ambient sensor-2
F3	(E14)	-	: Body ground
D3	(E18)	GR/2	: Front wheel sensor LH
E2	(E21)	GR/2	: Brake fluid level switch
D2	(E23)	GR/6	: Front wiper motor
F3	(E24)	*	: Body ground
D3	(E31)	B/3	: Front pressure sensor
E3	(E32)	B/3	: Rear pressure sensor
E2	(E49)	B/6	: Active booster
G5	(E10)	B/3	: Front turn/fog lamp LH
F3	(E105)	BR/2	: Front and rear washer motor
G3	(E106)	BR/2	: Washer fluid level switch
D3	(E114)	B/6	: Delta stroke sensor
E2	(E125)	B/47	: ABS actuator and electric unit (control unit)
F2	(E126)	-	: Body ground

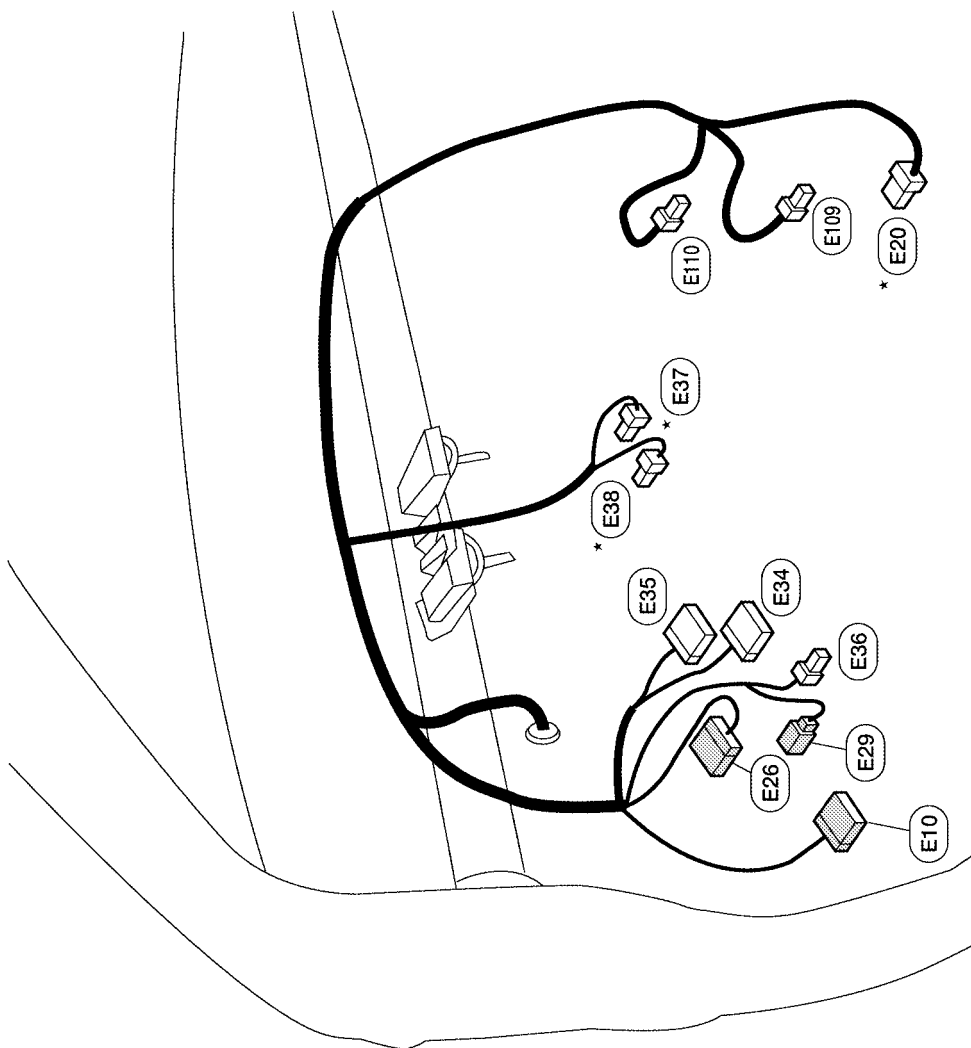
\* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.  
 Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

WKIA3688E

# HARNESS

## Passenger Compartment

- (E10) W/10 : To (M6)
- \* (E20) B/8 : Accelerator pedal position (APP) sensor
- (E26) W/16 : To (M91)
- (E29) Y/4 : To (M10)
- (E34) W/24 : To (B40)
- (E35) W/12 : To (B41)
- (E36) W/2 : To (B42)
- \* (E37) BR/2 : ASCD brake switch (with ASCD)
- \* (E37) BR/2 : ICC brake switch (with ICC)
- \* (E38) W/4 : Stop lamp switch
- (E109) W/2 : Pedal adjusting motor
- (E110) W/3 : Pedal adjusting motor



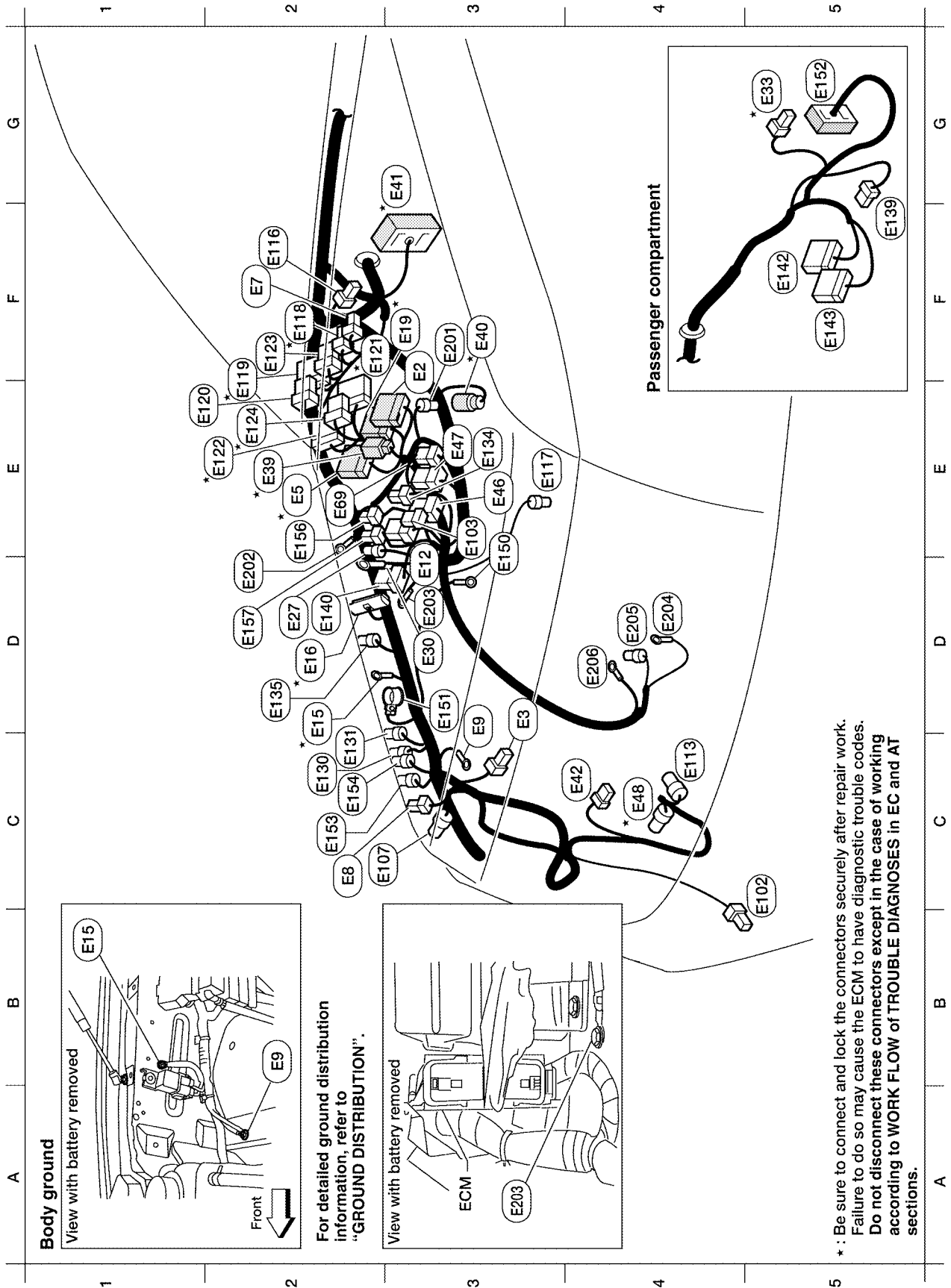
\* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.  
 Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
PG  
L  
M

# HARNESS

## ENGINE ROOM HARNESS (RH VIEW)

### Engine Compartment



Refer to [PG-45, "ENGINE ROOM HARNESS \(LH VIEW\)"](#) for continuation of engine room harness.

WKIA5321E



F2	(E123)	BR/8	: IPDM E/R (intelligent power distribution module engine room)
E2	*(E124)	B/6	: IPDM E/R (intelligent power distribution module engine room)
C2	(E130)	W/2	: Compressor motor relay
C2	(E131)	W/2	: Compressor motor relay
E3	(E134)	GR/7	: ICC brake hold relay
D2	(E135)	GR/2	: Transfer dropping resistor
F5	(E139)	W/8	: To (E107)
D2	(E140)	BR/6	: Trailer tow relay 2
F5	(E142)	L/24	: Transfer control unit
F5	(E143)	G/24	: Transfer control unit
D3	(E150)	-	: Engine ground
D3	(E151)	-	: Negative battery cable
G5	(E152)	SMJ	: To (M31)
C2	(E153)	GR/2	: Transfer motor relay
C2	(E154)	GR/2	: Transfer motor relay
E2	(E156)	L/4	: Trailer turn relay LH
D2	(E157)	L/4	: Trailer turn relay RH

**Generator sub-harness**

F3	(E201)	GR/2	: To (E40)
D2	(E202)	-	: Fusible link box (battery)
D3	(E203)	-	: Body ground
D4	(E204)	-	: Generator
D4	(E205)	GR/2	: Generator
D4	(E206)	-	: Generator

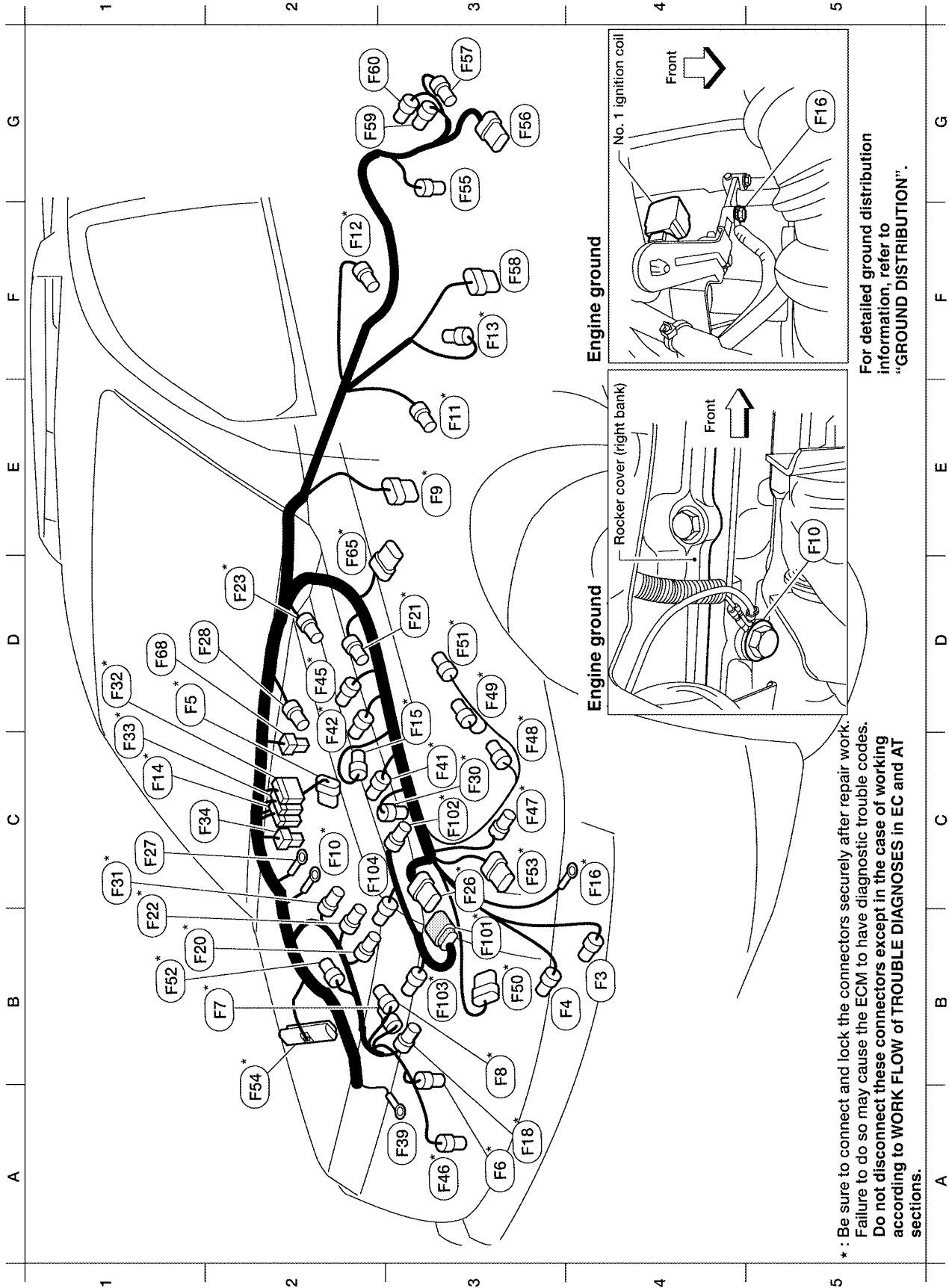
\* : Be sure to connect and lock the connectors securely after repair work.  
 Failure to do so may cause the ECM to have diagnostic trouble codes.  
**Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**

E3	(E2)	W/16	: To (F32)
D3	(E3)	B/2	: Horn
E2	*(E5)	W/24	: To (F14)
F2	(E7)	GR/2	: Fusible link box (battery)
C2	(E8)	W/2	: Hood switch
C3	*(E9)	-	: Body ground
D3	(E12)	B/5	: Stop lamp relay
C2	*(E15)	-	: Body ground
D2	(E16)	B/32	: ECM
D2	(E27)	BR/2	: Fusible link box (battery)
D2	(E30)	-	: Fusible link box (battery)
G5	*(E33)	B/1	: To (M66)
E2	*(E39)	W/2	: To (F34)
F3	*(E40)	GR/2	: To (E201)
G3	*(E41)	SMJ	: To (C1) (located RH rear of engine compartment)
C4	(E42)	B/6	: ICC sensor
E3	(E46)	B/5	: Transfer shift high relay
E3	(E47)	B/5	: Transfer shift low relay
C4	*(E48)	B/3	: Refrigerant pressure sensor
E2	(E69)	L/4	: Transfer shutoff relay
C5	(E102)	B/3	: Front turn/fog lamp RH
E3	(E103)	B/5	: Daytime light relay
C2	(E107)	B/8	: Front combination lamp RH
C4	(E113)	W/2	: Cooling fan motor
F2	*(E116)	W/2	: Condenser-2
E3	(E117)	GR/2	: Front wheel sensor RH
F2	(E118)	B/2	: IPDM E/R (intelligent power distribution module engine room)
E2	*(E119)	W/16	: IPDM E/R (intelligent power distribution module engine room)
E2	(E120)	W/6	: IPDM E/R (intelligent power distribution module engine room)
F3	*(E121)	BR/12	: IPDM E/R (intelligent power distribution module engine room)
E2	*(E122)	W/12	: IPDM E/R (intelligent power distribution module engine room)

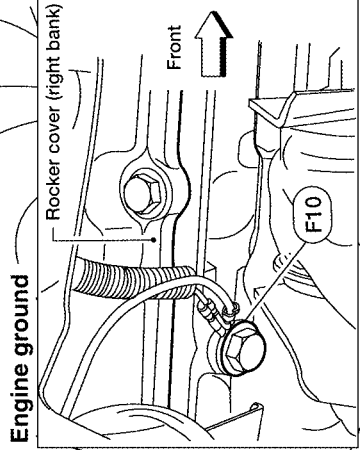
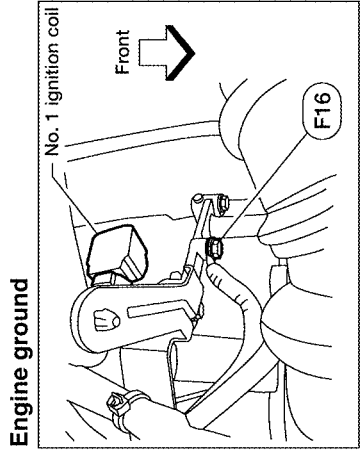
WKIA4673E

# HARNESS

## ENGINE CONTROL HARNESS



\* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.



For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

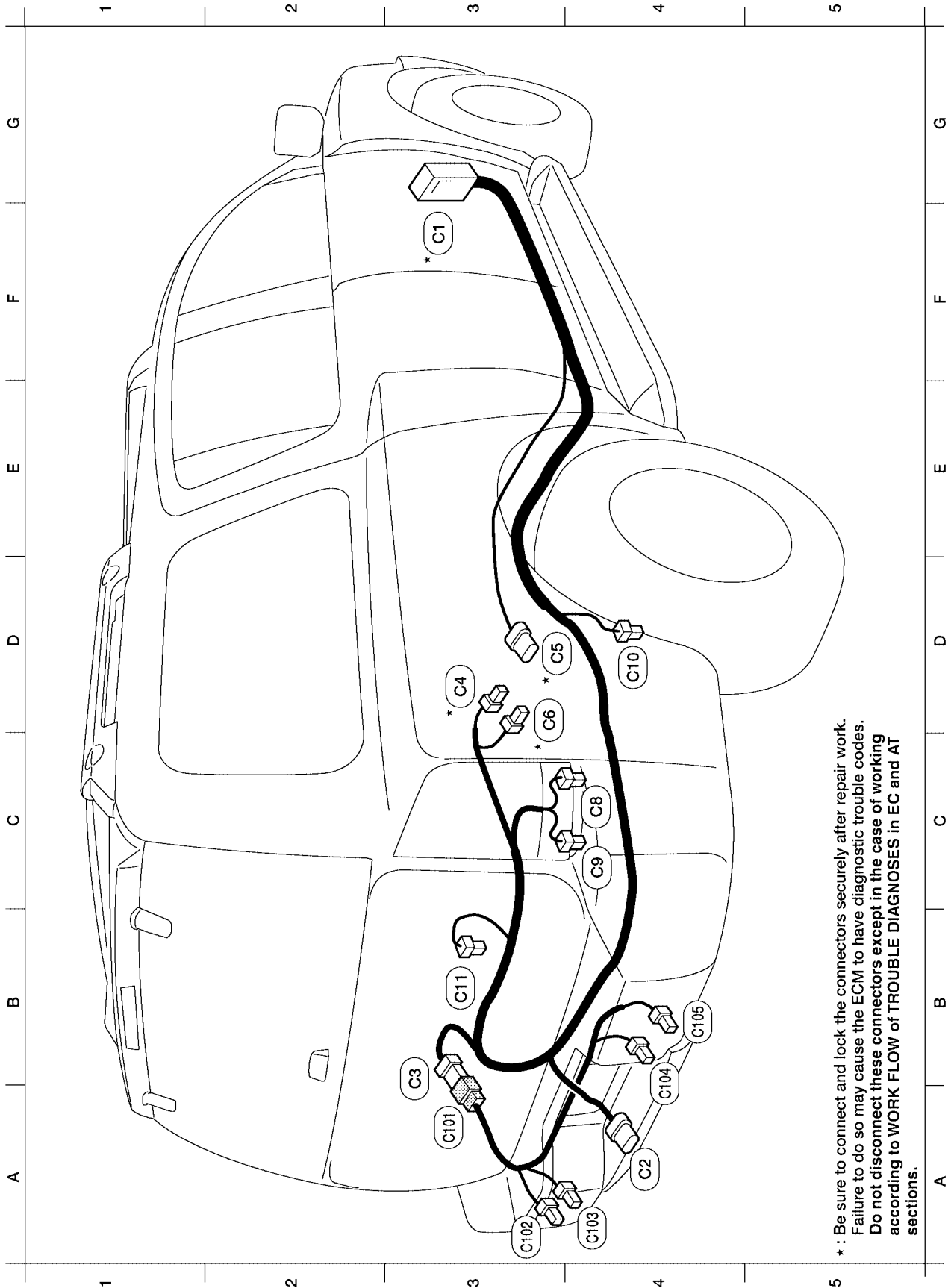
WKIA5322E

B4 (F3)	B/1	: A/C compressor		C3 *	(F48)	GR/3	: Ignition coil No. 3 (with power transistor)
B4 (F4)	B/3	: Oil pressure sensor		D3 *	(F49)	GR/3	: Ignition coil No. 5 (with power transistor)
D1 *	(F5)	B/6	: Air fuel ratio (A/F) sensor 1 (bank 2)	B3 *	(F50)	B/6	: Electric throttle control actuator
A3 *	(F6)	GR/3	: Ignition coil No. 2 (with power transistor)	D3 *	(F51)	GR/3	: Ignition coil No. 7 (with power transistor)
B2 *	(F7)	GR/3	: Ignition coil No. 4 (with power transistor)	B1 *	(F52)	GR/3	: Ignition coil No. 8 (with power transistor)
A3 *	(F8)	GR/3	: Ignition coil No. 6 (with power transistor)	C3 *	(F53)	B/6	: Mass air flow sensor
E3 *	(F9)	G/10	: A/T assembly	A2 *	(F54)	B/81	: ECM
C2 *	(F10)	-	: Engine ground	G3	(F55)	B/2	: ATP switch (4WD only)
E3 *	(F11)	B/3	: Crankshaft position sensor (POS)	G3	(F56)	B/8	: Transfer terminal cord assembly (4WD only)
F2 *	(F12)	G/4	: Heated oxygen sensor 2 (bank 2)	G3	(F57)	B/2	: Transfer motor (4WD only)
F3	(F13)	G/4	: Heated oxygen sensor 2 (bank 1)	F3	(F58)	GR/6	: Transfer control device (4WD only)
C1	(F14)	W/24	: To (E5)	G2	(F59)	B/2	: Wait detection switch (4WD only)
C3 *	(F15)	L/2	: EVAP canister purge volume control solenoid valve	G2	(F60)	GR/2	: Neutral-4LO switch (4WD only)
C4 *	(F16)	-	: Engine ground	D2 *	(F65)	B/6	: Air fuel ratio (A/F) sensor 1 (bank 1)
A3 *	(F18)	GR/2	: Fuel injector No. 2	D1	(F68)	B/2	: Water valve
B1 *	(F20)	GR/2	: Fuel injector No. 4	<b>Engine control sub-harness</b>			
D3 *	(F21)	GR/2	: Condenser-1	B3 *	(F101)	B/6	: To (F26)
B1 *	(F22)	GR/2	: Fuel injector No. 6	C3 *	(F102)	B/2	: Knock sensor (bank 1)
D2 *	(F23)	B/3	: Camshaft position sensor (PHASE)	B3 *	(F103)	GR/2	: Engine coolant temperature sensor
C3 *	(F26)	B/6	: To (F10)	C2	(F104)	B/2	: Knock sensor (bank 2)
C1	(F27)	B/1	: Starter motor				
D1	(F28)	GR/1	: Starter motor				
C3 *	(F30)	GR/2	: Fuel injector No. 1				
C1 *	(F31)	GR/2	: Fuel injector No. 8				
D1 *	(F32)	W/16	: To (E2)				
C1 *	(F33)	W/16	: To (E18)				
C1 *	(F34)	W/2	: To (E38)				
A3	(F39)	-	: Fusible link box (battery)				
C3 *	(F41)	GR/2	: Fuel injector No. 3				
C2 *	(F42)	GR/2	: Fuel injector No. 5				
D2 *	(F45)	GR/2	: Fuel injector No. 7				
A3 *	(F46)	B/3	: Power steering pressure sensor				
C3 *	(F47)	GR/3	: Ignition coil No. 1 (with power transistor)				

\* : Be sure to connect and lock the connectors securely after repair work.  
 Failure to do so may cause the ECM to have diagnostic trouble codes.  
**Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**

# HARNESS

## CHASSIS HARNESS



\* : Be sure to connect and lock the connectors securely after repair work.  
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Do not disconnect these connectors except in the case of working  
according to **WORK FLOW of TROUBLE DIAGNOSES** in EC and AT  
sections.

WKIA2710E

F3 \* C1 SMJ : To E41 (located RH rear of engine compartment)

A4 C2 B/7 : Trailer

B3 C3 GR/6 : To C101

D3 \* C4 GR/3 : EVAP control system pressure sensor

D4 \* C5 GR/5 : Fuel level sensor unit and fuel pump

C3 \* C6 B/2 : EVAP canister vent control valve

C4 C8 B/3 : Height sensor

C4 C9 B/4 : Suspension air compressor

D4 C10 BR/2 : Rear wheel sensor RH

B3 C11 BR/2 : Rear wheel sensor LH

## Rear sonar sensor sub-harness

A3 C101 GR/6 : To C3

A3 C102 B/3 : Rear sonar sensor LH outer

A4 C103 B/3 : Rear sonar sensor LH inner

B4 C104 B/3 : Rear sonar sensor RH inner

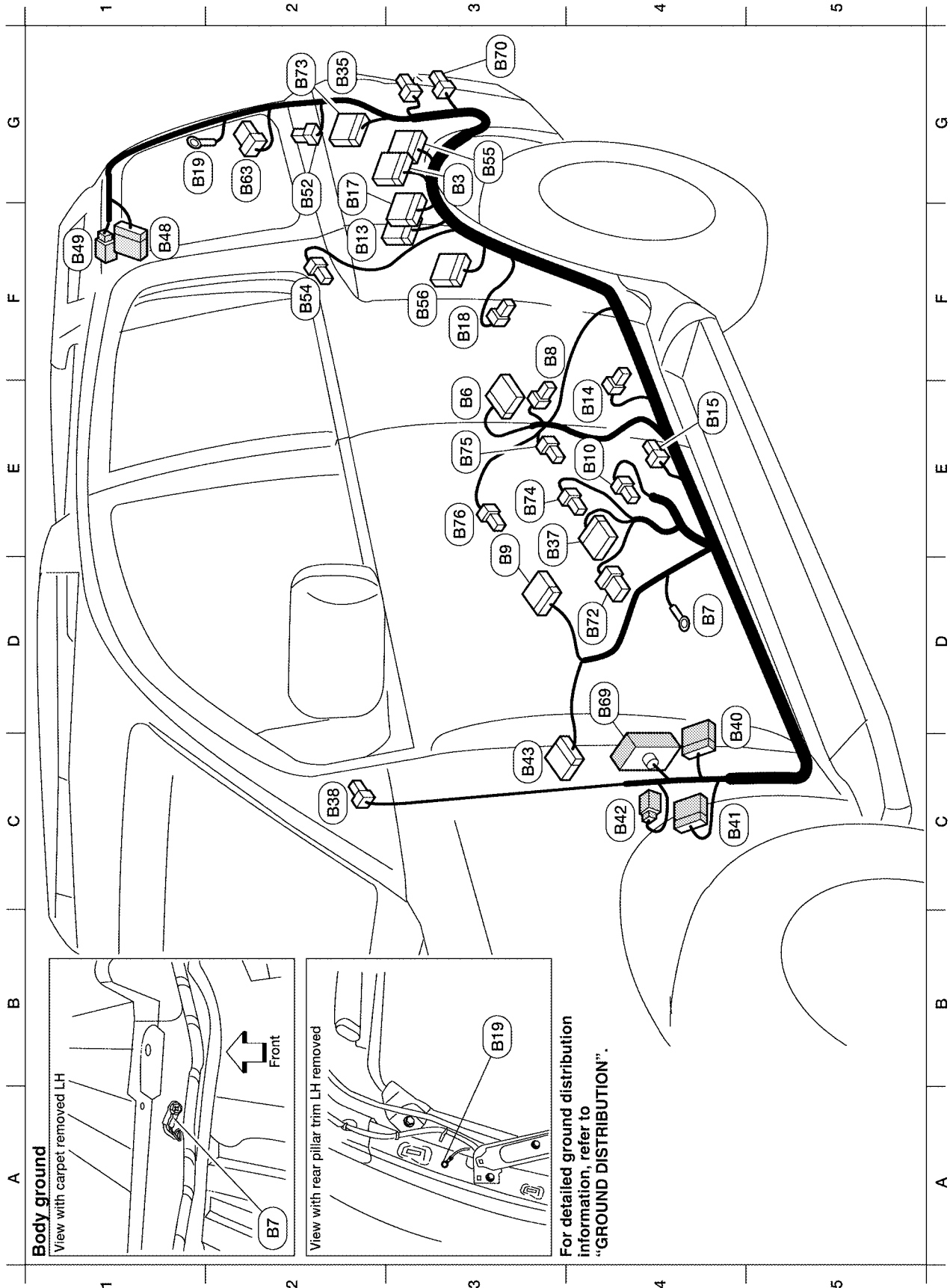
B4 C105 B/3 : Rear sonar sensor RH outer

\* : Be sure to connect and lock the connectors securely after repair work.  
Failure to do so may cause the ECM to have diagnostic trouble codes.  
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according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT  
sections.

WKIA4676E

# HARNESS

## BODY HARNESS



WKIA4677E

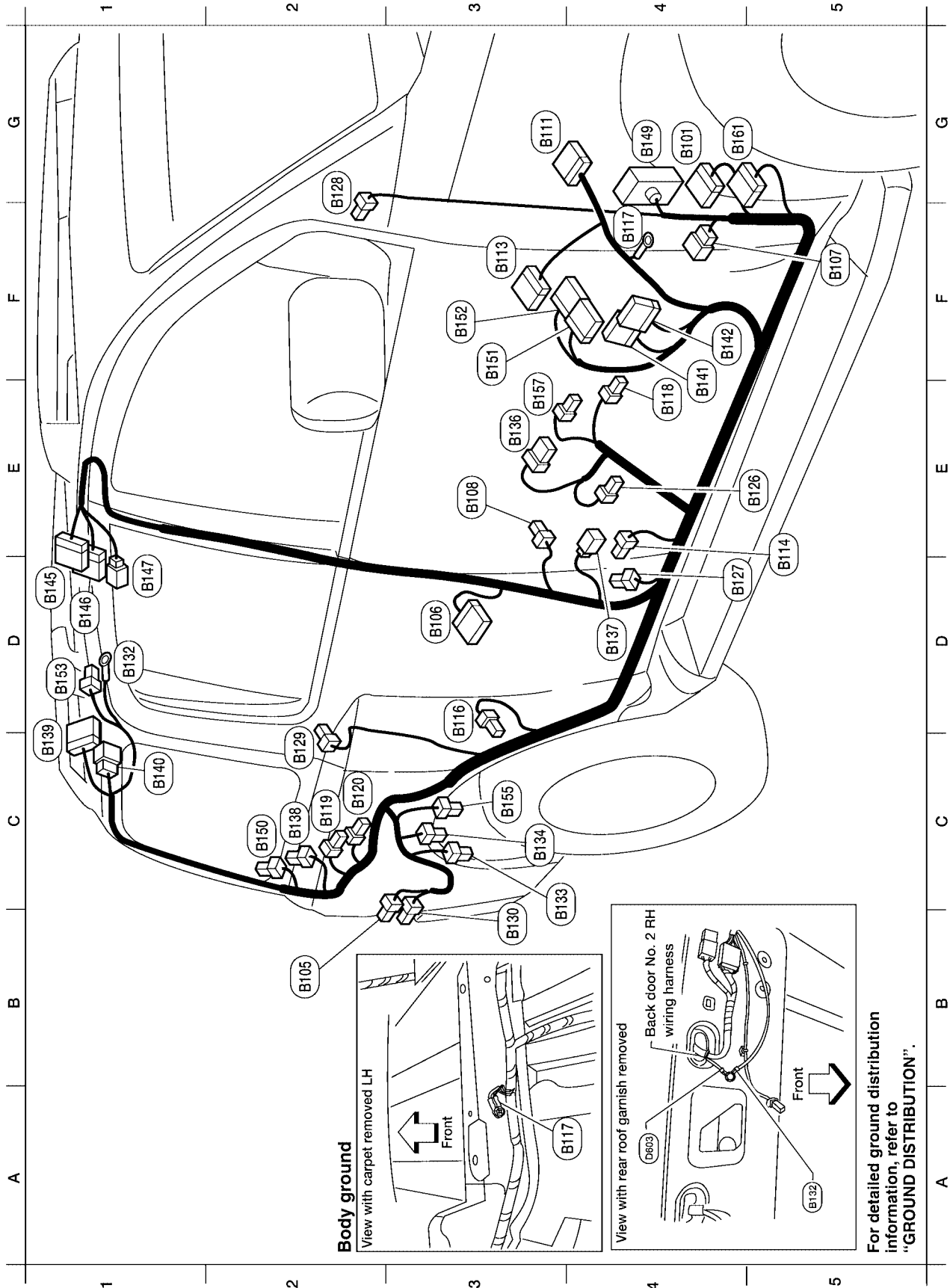
# HARNESS

G3 (E83)	W/16	: Suspension control unit	G2 (E73)	W/16	: Rear view camera control unit
E3 (E86)	W/18	: To (D261)	E3 (E74)	Y/4	: Seat belt buckle pre-tensioner assembly LH
D4 (E87)	-	: Body ground	E3 (E75)	W/3	: Rear seat heater LH
F3 (E88)	W/3	: Front door switch LH	E3 (E76)	W/3	: Rear seat heater RH
D3 (E89)	Y/12	: Air bag diagnosis sensor unit			
E4 (E10)	Y/2	: Front LH side air bag module			
F2 (E13)	W/24	: ICC unit			
E4 (E14)	Y/2	: Front LH seat belt pre-tensioner			
E4 (E15)	Y/2	: LH side air bag (satellite) sensor			
G2 (E17)	GR/24	: ICC unit			
F3 (E18)	W/3	: Rear door switch LH			
G1 (E19)	-	: Body ground			
G2 (E35)	B/3	: Rear combination lamp LH			
E4 (E37)	W/16	: To (F1)			
C2 (E38)	Y/2	: LH side front curtain air bag module			
C4 (E40)	W/24	: To (E34)			
C4 (E41)	W/12	: To (E36)			
C4 (E42)	W/2	: To (E36)			
C3 (E43)	W/12	: To (E11)			
F1 (E46)	W/16	: To (D40)			
F1 (E49)	W/2	: To (D402)			
G2 (E52)	W/2	: Rear power vent window motor LH			
F2 (E54)	Y/2	: LH side rear curtain air bag module			
G3 (E55)	W/26	: Back door control unit			
F3 (E56)	W/16	: Sonar control unit			
G2 (E63)	W/6	: Back door close switch			
D4 (E68)	SMJ	: To (M40)			
G3 (E70)	GR/3	: Rear combination lamp LH (stop/tail)			
D4 (E72)	BR/6	: Subwoofer			

WKIA4678E

# HARNESS

## BODY NO. 2 HARNESS



For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

WKIA4679E



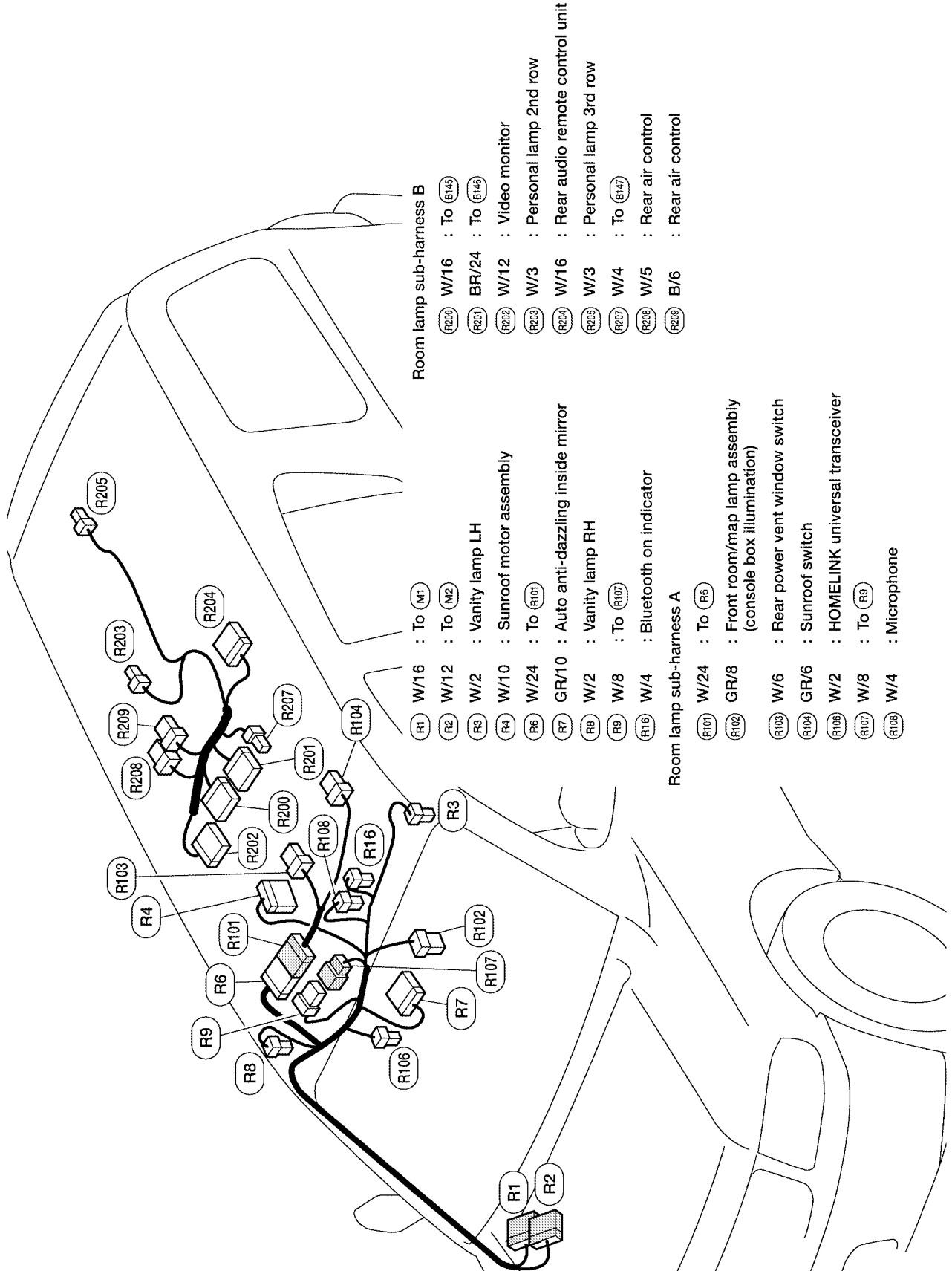
# HARNESSES

G4 (B101)	W/16	: To (M84)	G4 (B149)	SMJ	: To (M36)
B2 (B103)	B/3	: Rear combination lamp RH	C2 (B150)	W/2	: Rear power vent window motor RH
D3 (B106)	W/18	: To (C801)	F5 (B151)	W/40	: NAVI control unit
F5 (B107)	W/8	: To (E139)	F5 (B152)	W/32	: NAVI control unit
E3 (B108)	W/3	: Front door switch RH	D1 (B153)	W/2	: Cargo lamp
G3 (B111)	W/12	: To (B43)	C3 (B155)	B/6	: Air mix door motor (rear)
F3 (B113)	Y/12	: Air bag diagnosis sensor unit	E3 (B157)	Y/4	: Seat belt buckle pre-tensioner assembly RH
E5 (B114)	Y/2	: RH side air bag (satellite) sensor	G5 (B161)	W/20	: To (M157)
C3 (B116)	W/3	: Rear door switch RH			
F4 (B117)	-	: Body ground			
F4 (B118)	W/3	: Front seat heater RH			
C2 (B119)	W/2	: Condenser-3			
C2 (B120)	W/2	: Condenser-4			
E5 (B126)	Y/2	: Front RH side air bag module			
D5 (B127)	Y/2	: Front RH seat belt pre-tensioner			
G2 (B128)	Y/2	: RH side rear curtain air bag module			
C2 (B129)	Y/2	: RH side front curtain air bag module			
B3 (B130)	GR/3	: Rear combination lamp RH (stop/tail)			
D1 (B132)	-	: Body ground			
C3 (B133)	W/4	: Rear blower motor resistor			
C3 (B134)	W/2	: Rear blower motor			
E3 (B136)	W/8	: To (E151)			
D4 (B137)	W/3	: Belt tension sensor			
C2 (B138)	B/2	: Rear cargo power socket			
C1 (B139)	W/16	: To (C802)			
C1 (B140)	W/6	: To (C801)			
F4 (B141)	W/32	: Blue tooth control unit			
F4 (B142)	GR/1	: Blue tooth control unit			
D1 (B145)	W/16	: To (R200)			
D1 (B146)	BR/24	: To (R201)			
D1 (B147)	W/4	: To (R207)			

WKIA4680E

# HARNESS

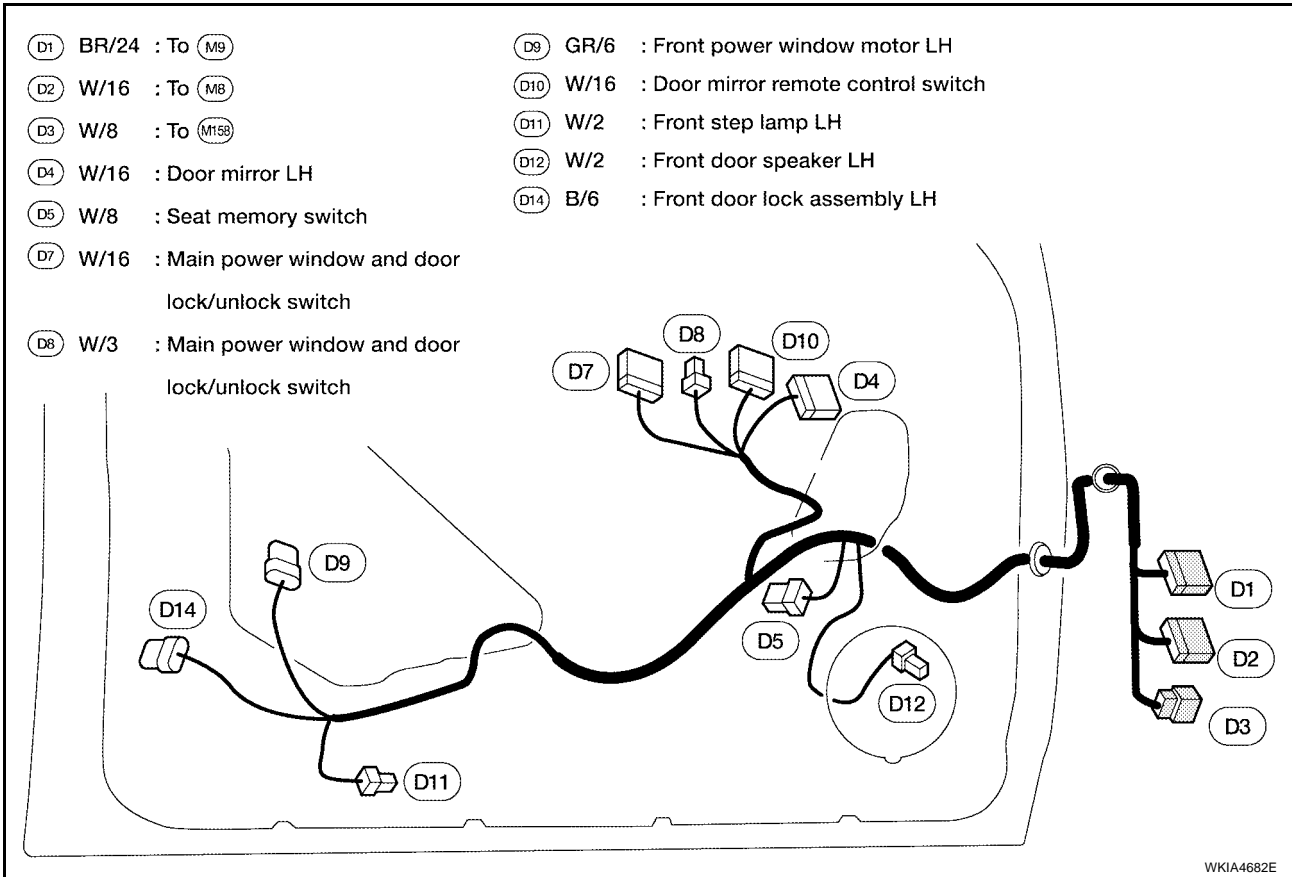
## ROOM LAMP HARNESS



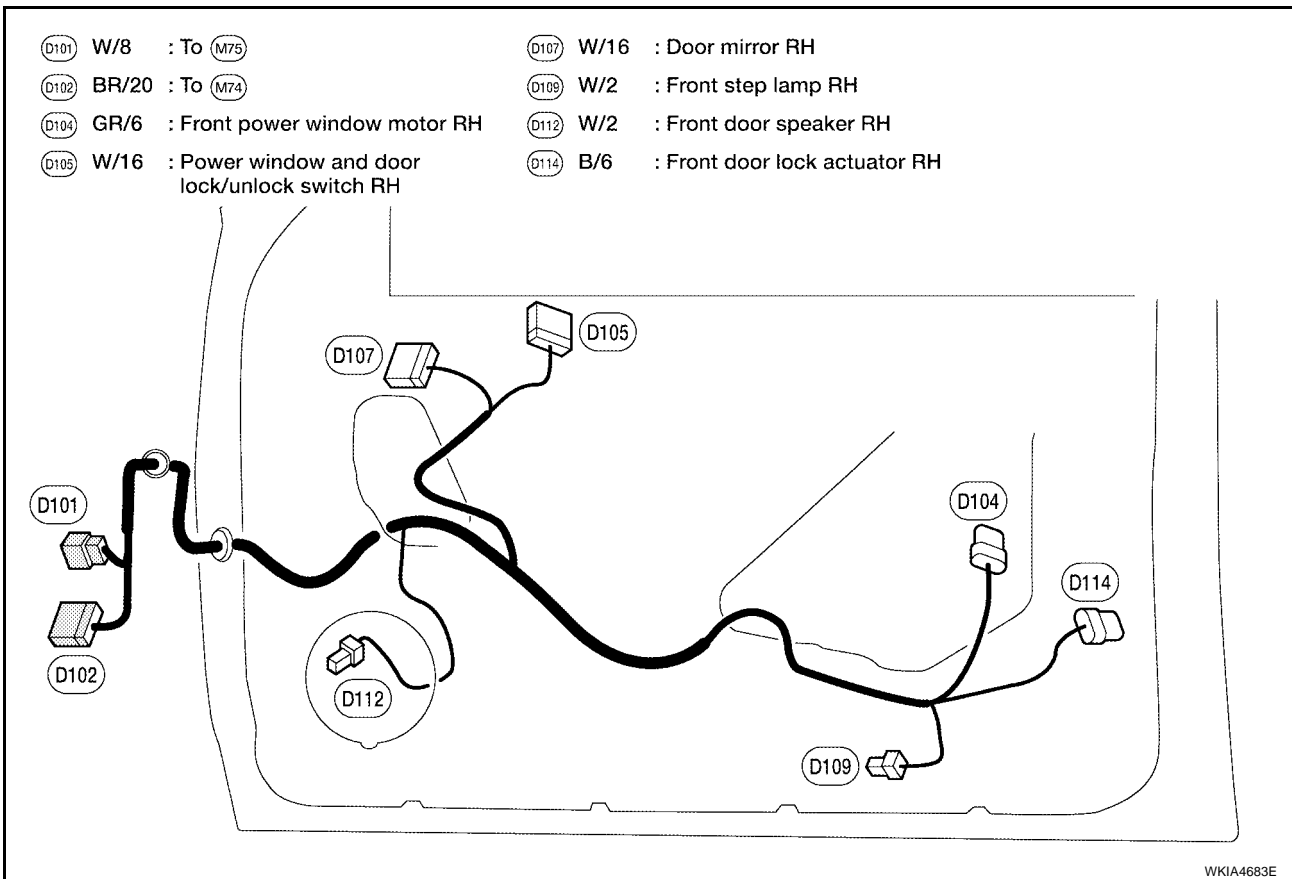
WKIA4681E

# HARNESS

## FRONT DOOR LH HARNESS



## FRONT DOOR RH HARNESS



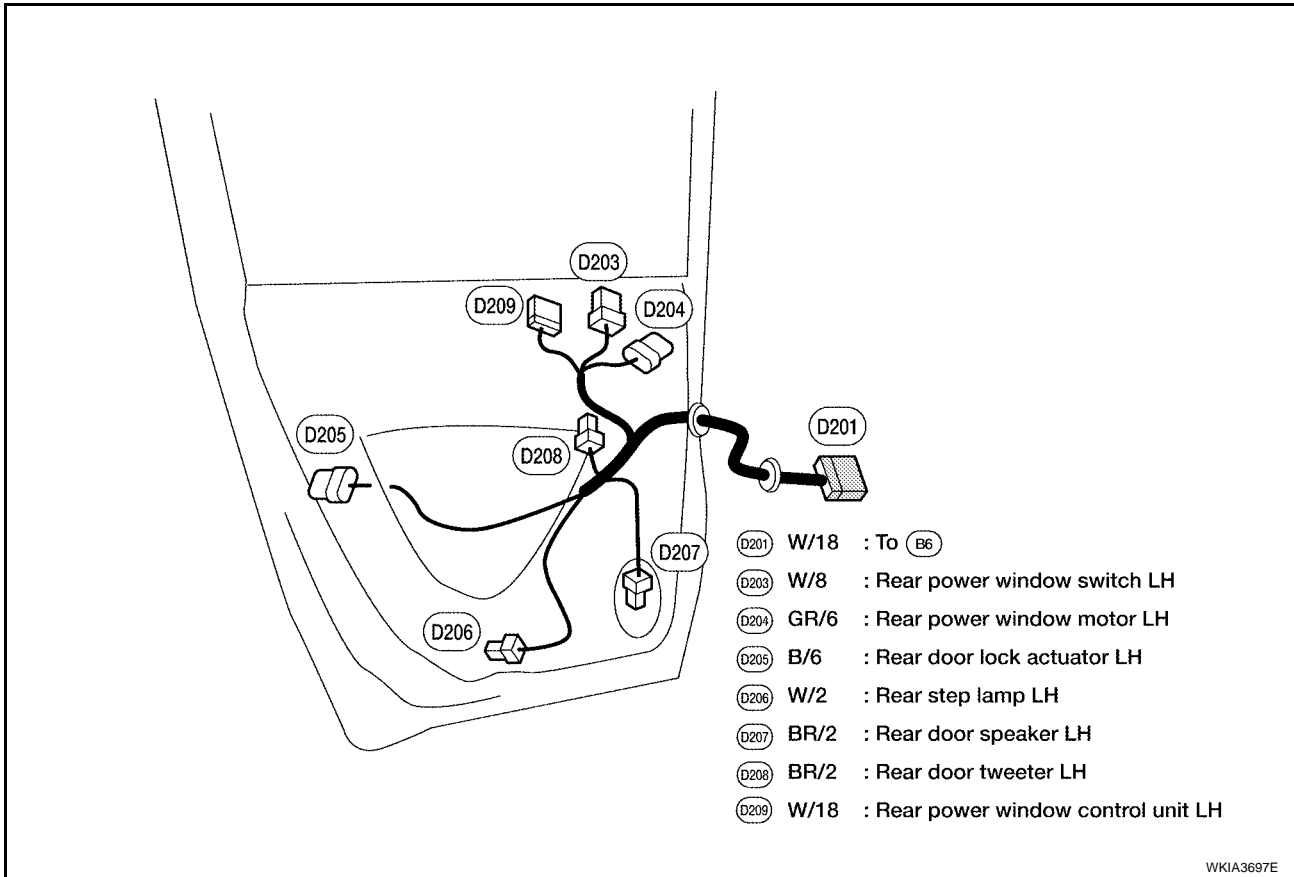
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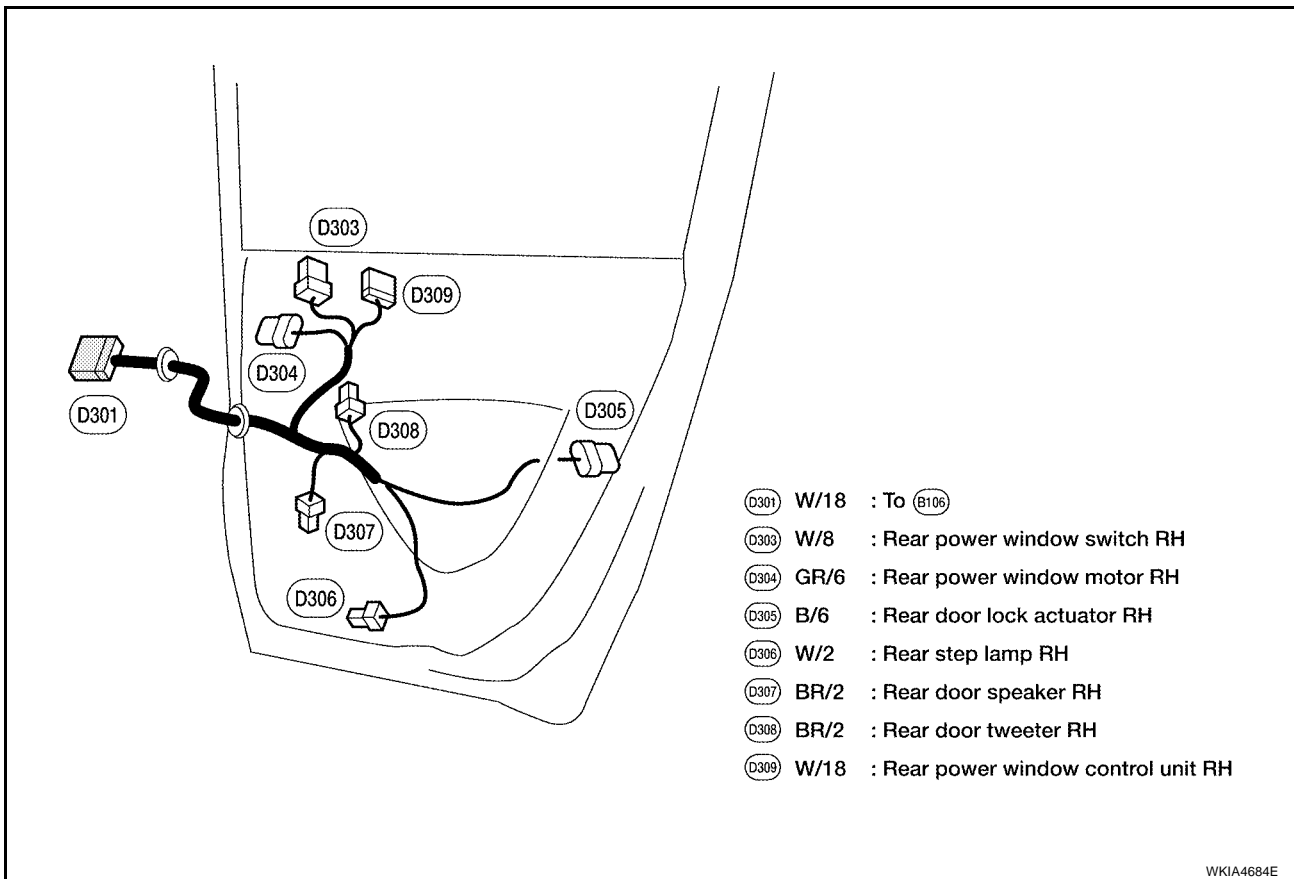
# HARNESS

## REAR DOOR LH HARNESS



WKIA3697E

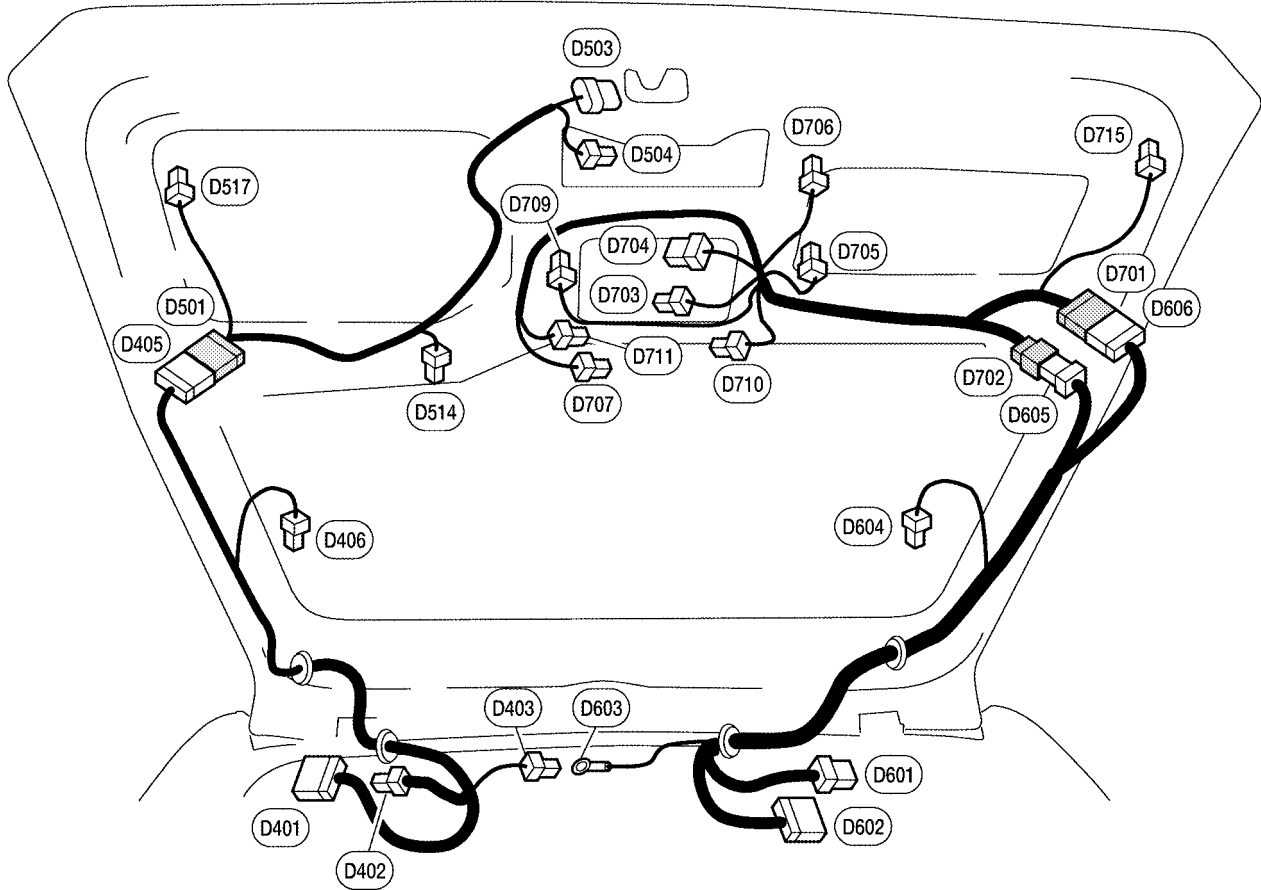
## REAR DOOR RH HARNESS



WKIA4684E

# HARNESS

## BACK DOOR HARNESS



### Back door No. 2 LH harness

- (D401) W/16 : To (B48)
- (D402) W/2 : To (B49)
- (D403) GR/2 : High-mounted stop lamp
- (D405) W/16 : To (D501)
- (D406) B/1 : Rear window defogger

### Back door LH harness

- (D501) W/16 : To (D405)
- (D503) W/8 : Back door latch (door ajar switch)
- (D504) W/4 : Rear view camera
- (D514) BR/2 : Back door warning chime
- (D517) BR/2 : Pinch strip LH

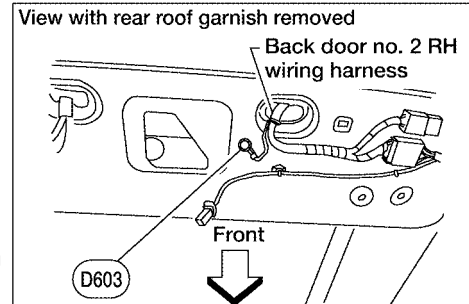
### Back door No. 2 RH harness

- (D601) W/6 : To (B140)
- (D602) W/16 : To (B139)
- (D603) - : Body ground
- (D604) B/1 : Rear window defogger (ground)
- (D605) W/6 : To (D702)
- (D606) W/16 : To (D701)

### Back door RH harness

- (D701) W/16 : To (D606)
- (D702) W/6 : To (D605)
- (D703) W/2 : License plate lamps
- (D704) W/6 : Rear wiper motor
- (D705) B/2 : Back-up lamp LH
- (D706) W/4 : Back door handle switch
- (D707) B/1 : Glass hatch ajar switch
- (D709) B/2 : Back-up lamp RH
- (D710) W/4 : Glass hatch switch
- (D711) W/4 : Glass hatch lock actuator
- (D715) BR/2 : Pinch strip RH

### Body ground



For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

WKIA4685E

# HARNESS

EKS00BNE

## Wiring Diagram Codes (Cell Codes)

Use the chart below to find out what each wiring diagram code stands for.

Refer to the wiring diagram code in the alphabetical index to find the location (page number) of each wiring diagram.

Code	Section	Wiring Diagram Name
A/C,A	ATC	Auto Air Conditioner
A/SUSP	RSU	Rear Air Suspension
AF1B1	EC	Air Fuel Ratio (A/F) Sensor 1 (Bank 1)
AF1B2	EC	Air Fuel Ratio (A/F) Sensor 1 (Bank 2)
AF1HB1	EC	Air Fuel Ratio (A/F) Sensor 1 (Bank 1)
AF1HB2	EC	Air Fuel Ratio (A/F) Sensor 1 (Bank 2)
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASC/BS	EC	ASCD Brake Switch
ASC/SW	EC	ASCD Steering Switch
ASCBOF	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
A/T	AT	A/T Assembly
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUT/DP	SE	Automatic Drive Positioner
AUTO/L	LT	Auto Light Control
B/CLOS	BL	Back Door Auto Closure System
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CLOCK	DI	Clock
COOL/F	EC	Cooling Fan Control
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication System
COMPAS	DI	Compass and Thermometer
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
DVD	AV	DVD Entertainment System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Throttle Control Motor Relay
ETC3	EC	Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/PUMP	EC	Fuel Pump
FSTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Bank 1
FUELB2	EC	Fuel Injection System Bank 2
H/AIM	LT	Headlamp Aiming Control
H/PHON	AV	Hands Free Telephone
H/LAMP	LT	Headlamp

# HARNESSES

HORN	WW	Horn	A
HSEAT	SE	Heated Seat	
ICC	ACS	Intelligent Cruise Control	
ICCBOF	EC	ICC Brake Switch	B
ICC/BS	EC	ICC Steering Switch	
ICC/SW	EC	ICC Brake Switch	
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)	C
IATS	EC	Intake Air Temperature Sensor	
IGNSYS	EC	Ignition System	
ILL	LT	Illumination	D
INJECT	EC	Injector	
INT/L	LT	Room/Map, Vanity, Cargo, Personal, Foot, Step, and Puddle Lamps	
KEYLES	BL	Remote Keyless Entry System	E
KS	EC	Knock Sensor	
MAFS	EC	Mass Air Flow Sensor	
MAIN	EC	Main Power Supply and Ground Circuit	F
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges	
MIL/DL	EC	Malfunction Indicator Lamp	
MIRROR	GW	Door Mirror	G
NATS	BL	Nissan Anti-Theft System	
NAVI	AV	Navigation System	
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1	H
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2	
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1	I
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2	
P/SCKT	WW	Power Socket	
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve	J
PHASE	EC	Camshaft Position Sensor (PHASE) (Bank 1)	
PNP/SW	EC	Park/Neutral Position Switch	
POS	EC	Crankshaft Position Sensor (POS)	
POWER	PG	Power Supply Routing	PG
PRE/SE	EC	EVAP Control System Pressure Sensor	
PS/SEN	EC	Power Steering Pressure Sensor	
R/VIEW	DI	Rear View Monitor	L
RP/SEN	EC	Refrigerant Pressure Sensor	
SEN/PW	EC	Sensor Power Supply	
SHIFT	AT	A/T Shift Lock System	M
SONAR	DI	Rear Sonar System	
SROOF	RF	Sunroof	
SRS	SRS	Supplemental Restraint System	
START	SC	Starting System	
STOP/L	LT	Stop Lamp	
T/TOW	LT	Trailer Tow	
T/WARN	WT	Low Tire Pressure Warning System	
TAIL/L	LT	Parking, License and Tail Lamps	
T/F	TF	Transfer Case	
TPS1	EC	Throttle Position Sensor	
TPS2	EC	Throttle Position Sensor	
TPS3	EC	Throttle Position Sensor	
TRNSCV	BL	HOMELINK® Universal Transceiver	
TURN	LT	Turn Signal and Hazard Warning Lamps	
VDC	BRC	Vehicle Dynamic Control System	

# HARNESSES

VEHSEC	BL	Vehicle security (theft warning) system
VENT/V	EC	EVAP Canister Vent Control Valve
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer



# ELECTRICAL UNITS LOCATION

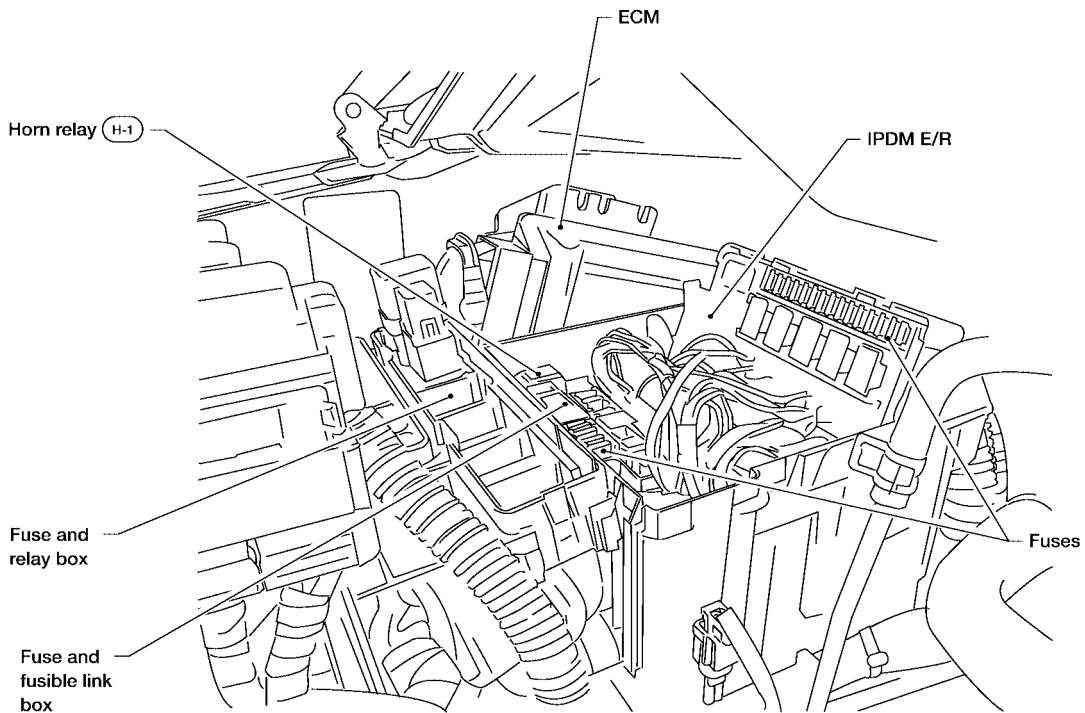
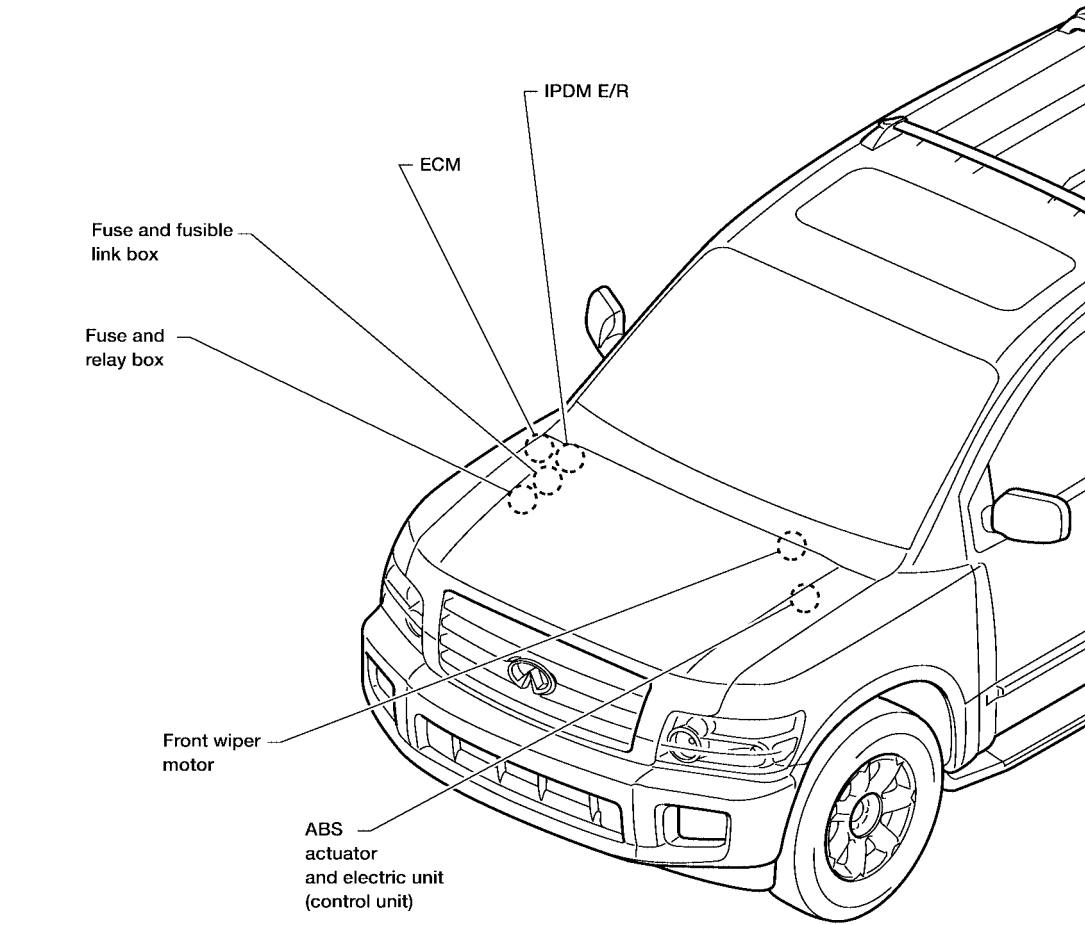
## ELECTRICAL UNITS LOCATION

### Electrical Units Location ENGINE COMPARTMENT

PFP:25230

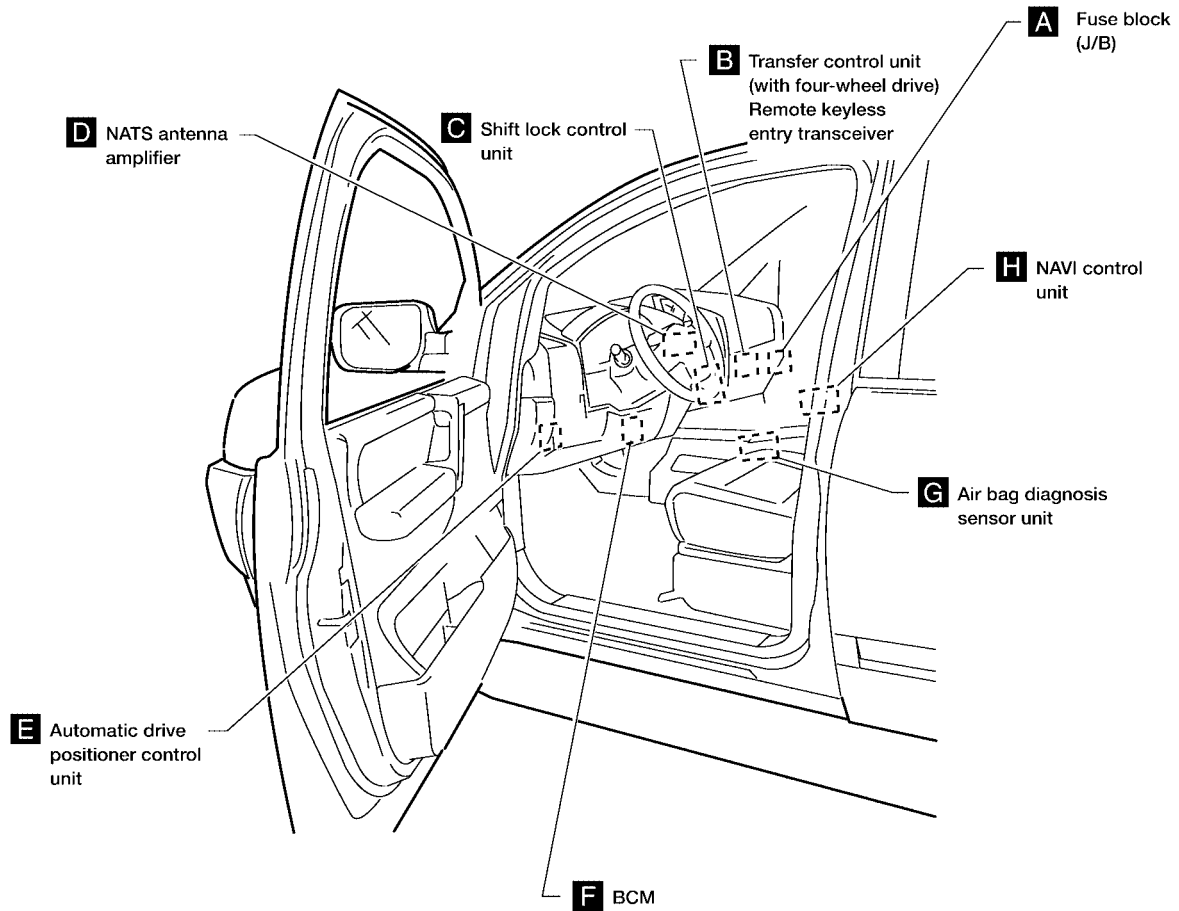
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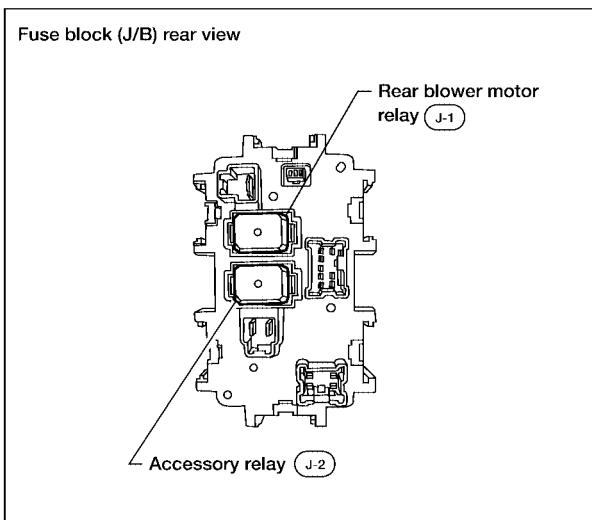
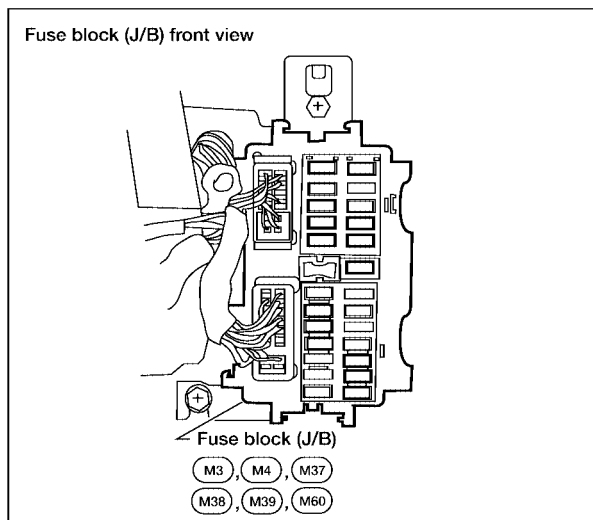


# ELECTRICAL UNITS LOCATION

## PASSENGER COMPARTMENT

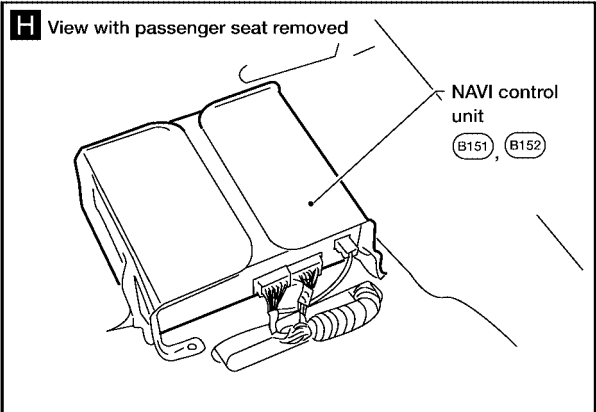
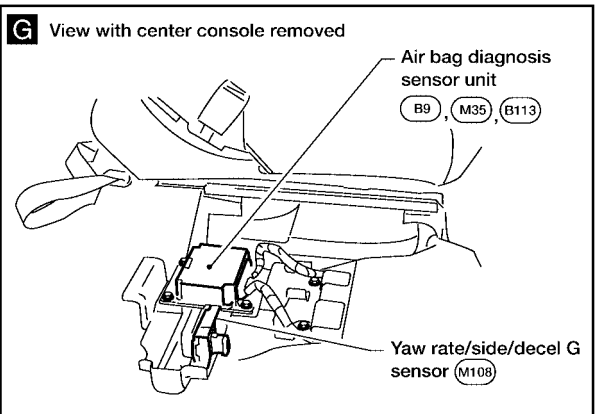
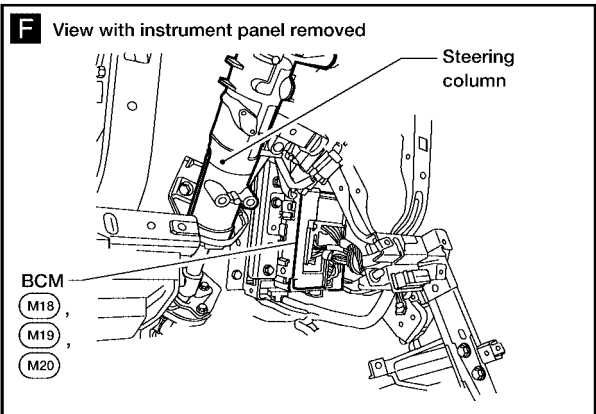
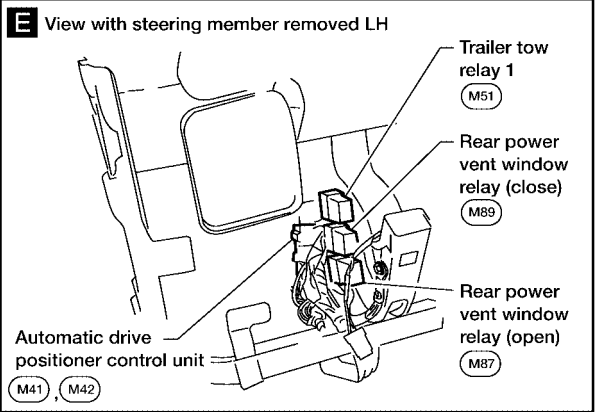
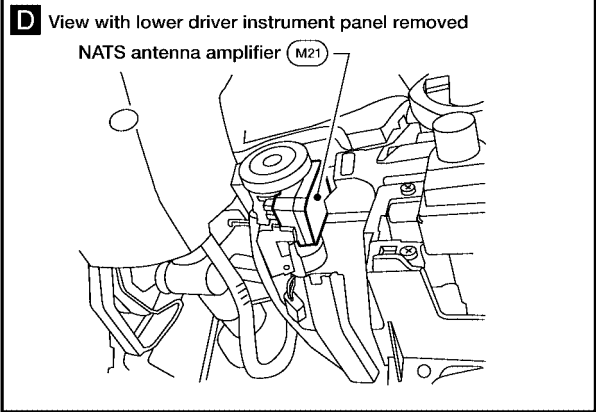
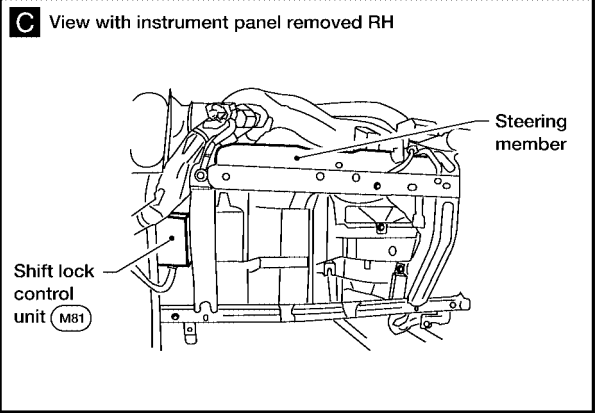
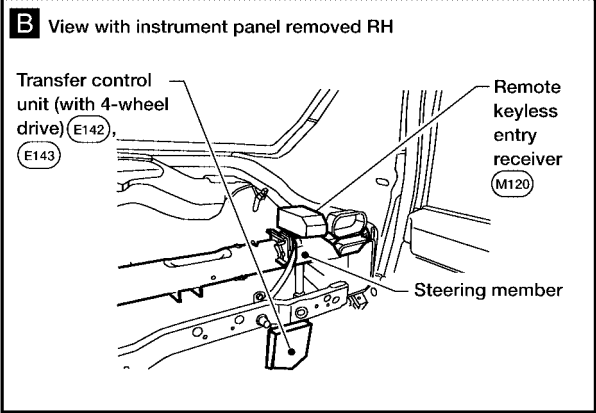


**A** Instrument panel side RH



WKIA4687E

# ELECTRICAL UNITS LOCATION



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WKIA4688E

# HARNESS CONNECTOR

PFP:B4341

EKS00BNJ

## HARNESS CONNECTOR

### Description

#### HARNESS CONNECTOR (TAB-LOCKING TYPE)

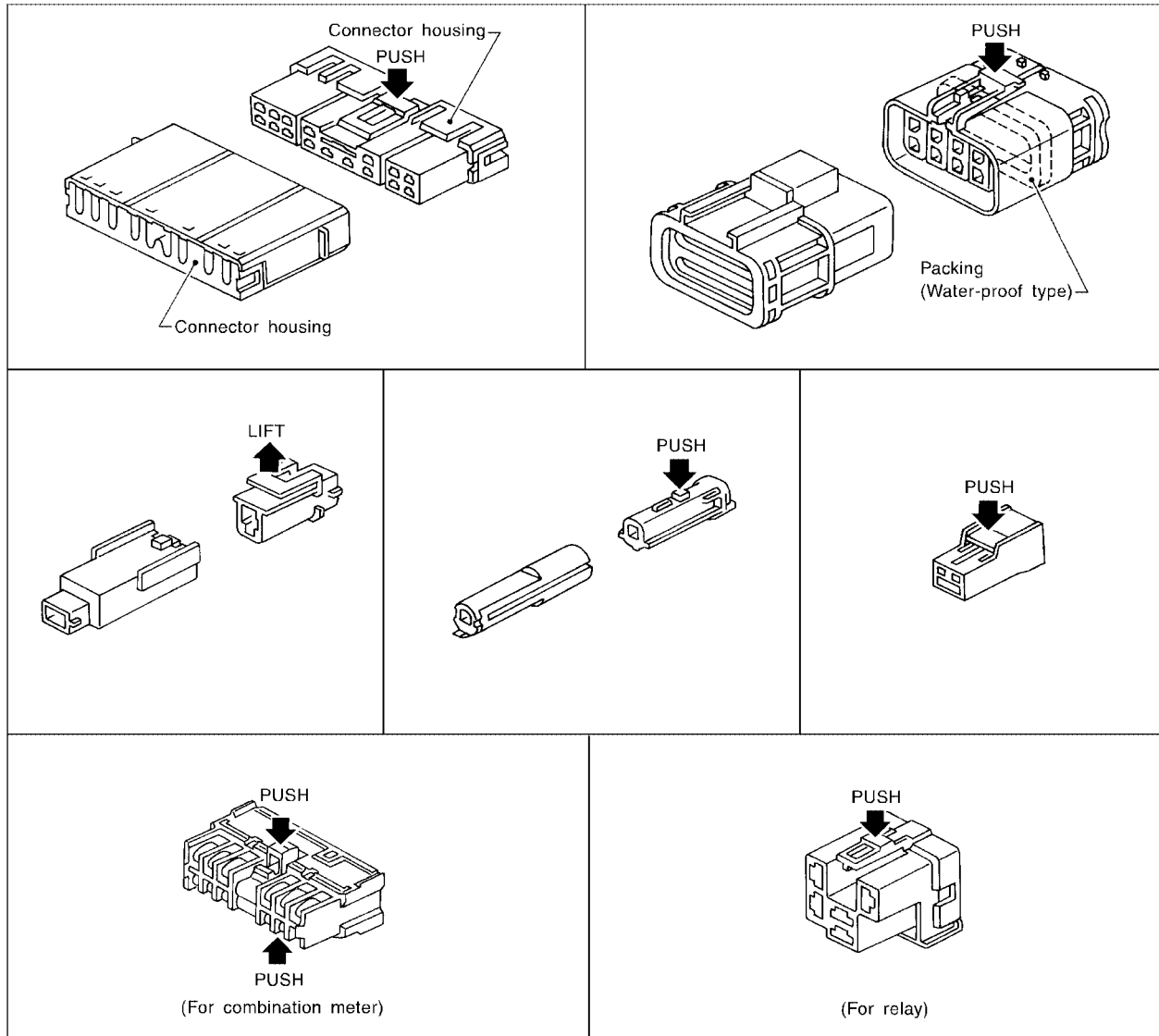
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

Refer to the next page for description of the slide-locking type connector.

#### CAUTION:

Do not pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

# HARNESS CONNECTOR

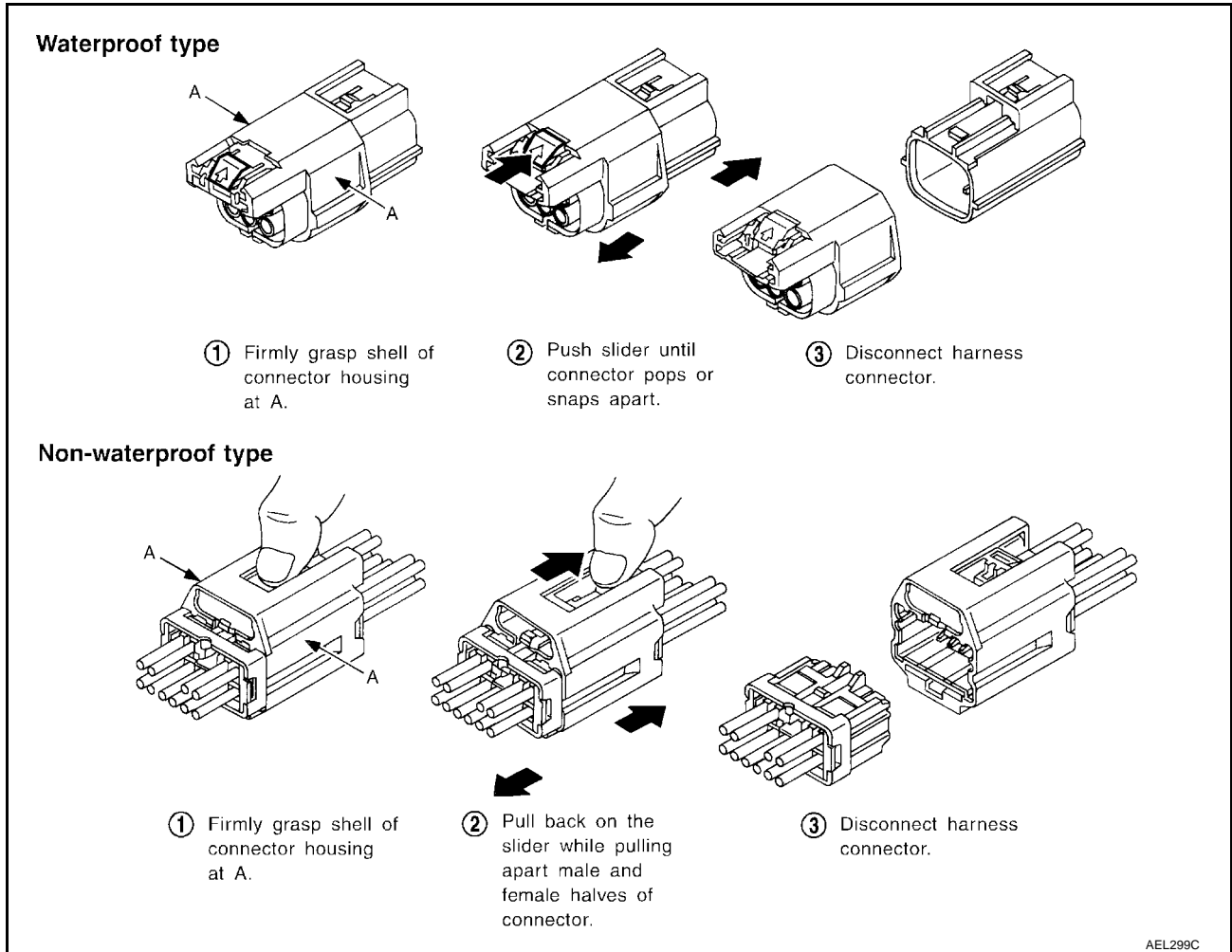
## HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the illustration below.

### CAUTION:

- **Do not pull the harness or wires when disconnecting the connector.**
- **Be careful not to damage the connector support bracket when disconnecting the connector.**

[Example]



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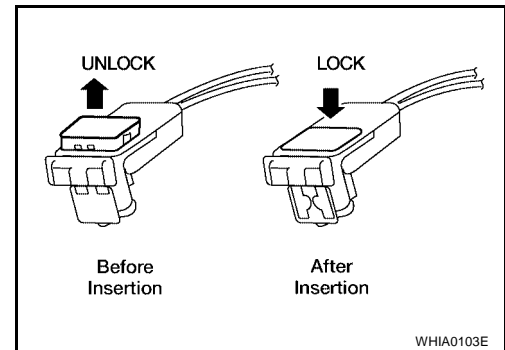
# HARNES CONNECTOR

## HARNES CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS component.
- Always push down to lock black locking tab after installing connector to SRS component. When locked, the black locking tab is level with the connector housing.

### CAUTION:

- Do not pull the harness or wires when removing connectors from SRS components.



# ELECTRICAL UNITS

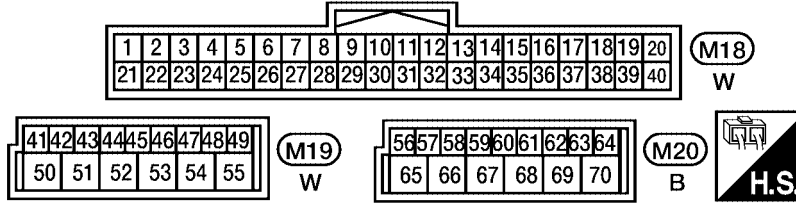
## ELECTRICAL UNITS Terminal Arrangement

PFP:23710

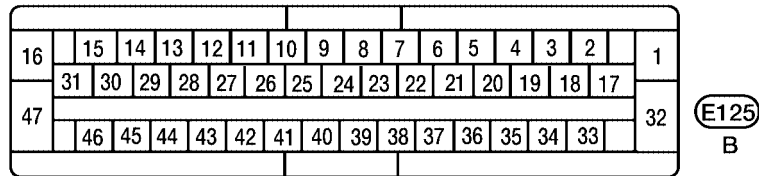
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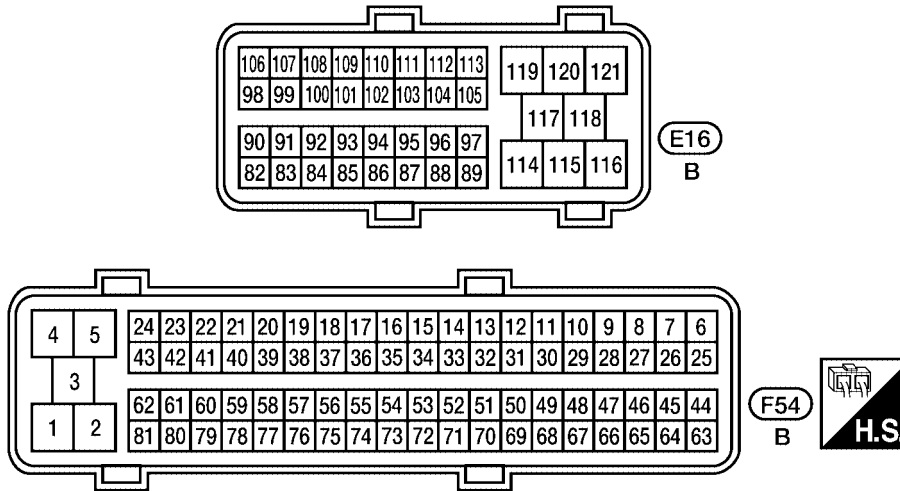
BCM (BODY CONTROL MODULE)



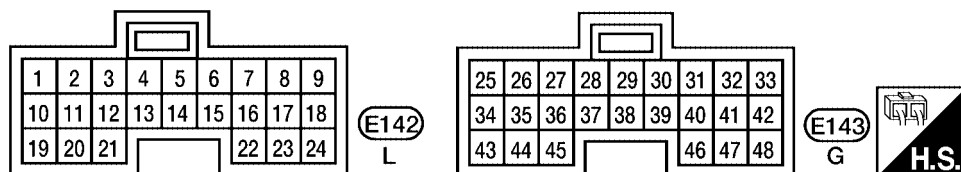
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



ECM



TRANSFER CONTROL UNIT



WKIA4689E

# STANDARDIZED RELAY

PFP:25230

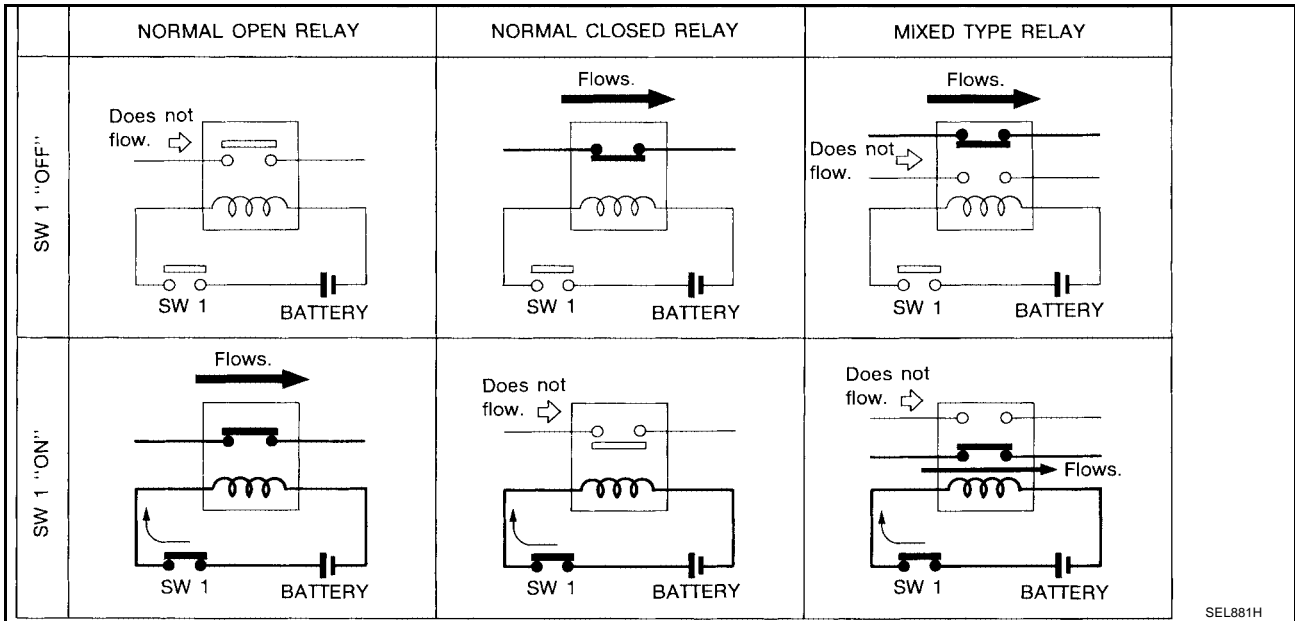
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## STANDARDIZED RELAY

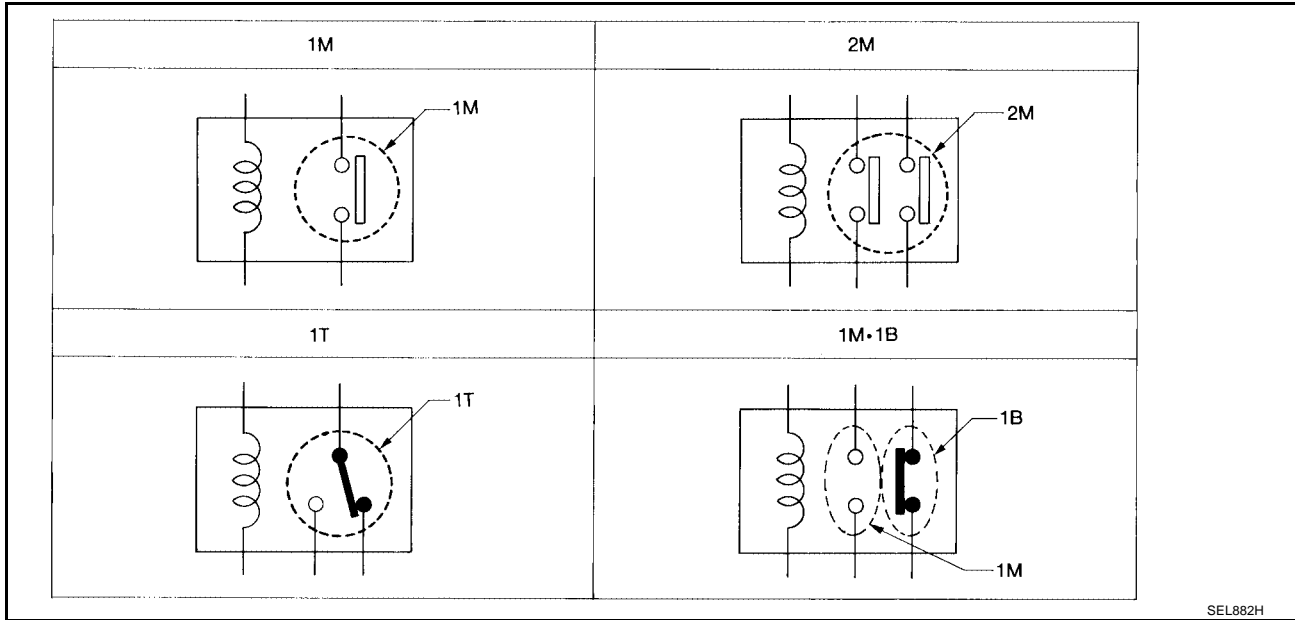
### Description

### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



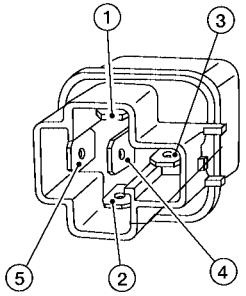
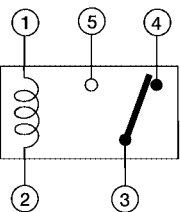
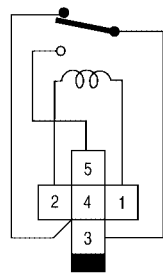
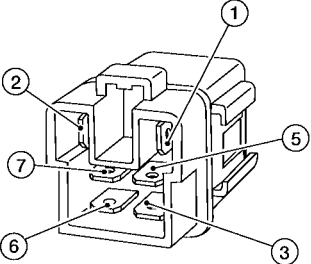
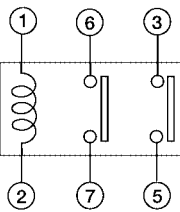
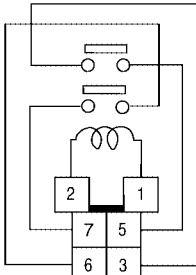
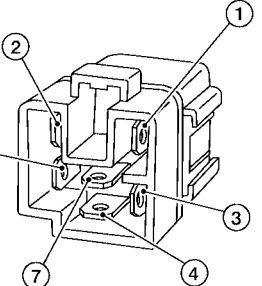
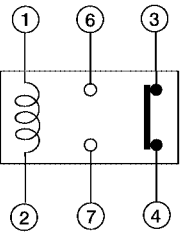
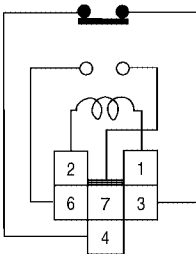
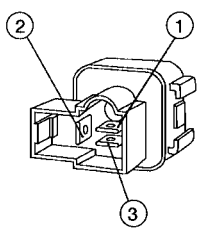
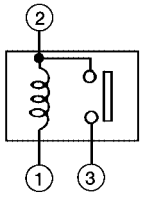
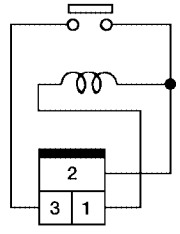
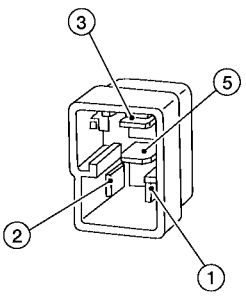
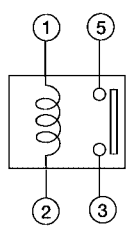
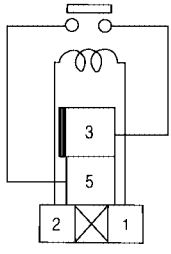
### TYPE OF STANDARDIZED RELAYS



1M	1 Make	2M	2 Make
1T	1 Transfer	1M-1B	1 Make 1 Break



# STANDARDIZED RELAY

Type	Outer view	Circuit	Connector Symbol and connection	Case color
1T				BLACK
2M				BROWN
1M-1B				GRAY
1M				BLACK
				BLUE

The arrangement of terminal numbers on the actual relays may differ from those shown above.

WKIA0253E

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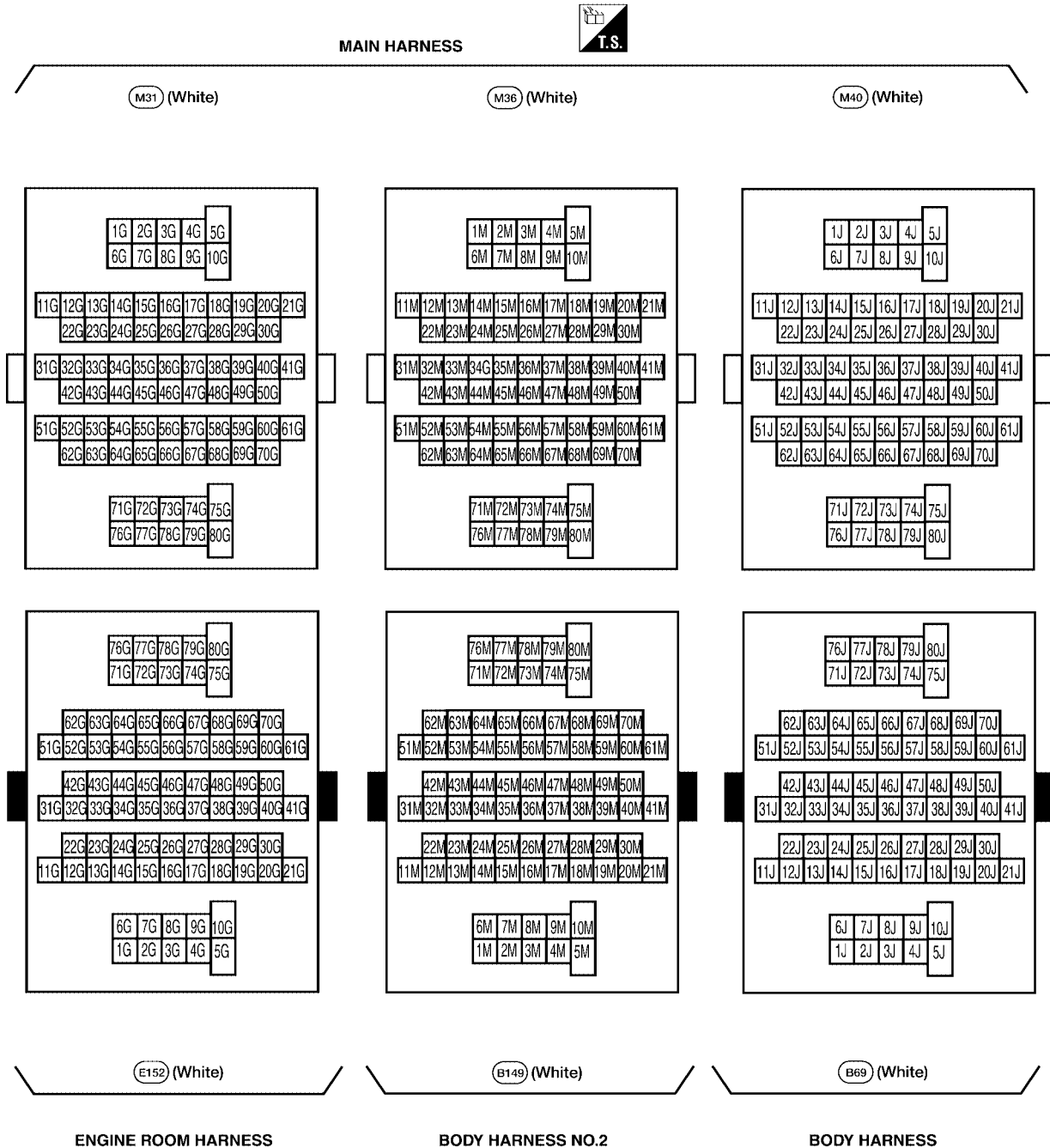
# SUPER MULTIPLE JUNCTION (SMJ)

## SUPER MULTIPLE JUNCTION (SMJ)

PF:84341

### Terminal Arrangement

EKS00BNM



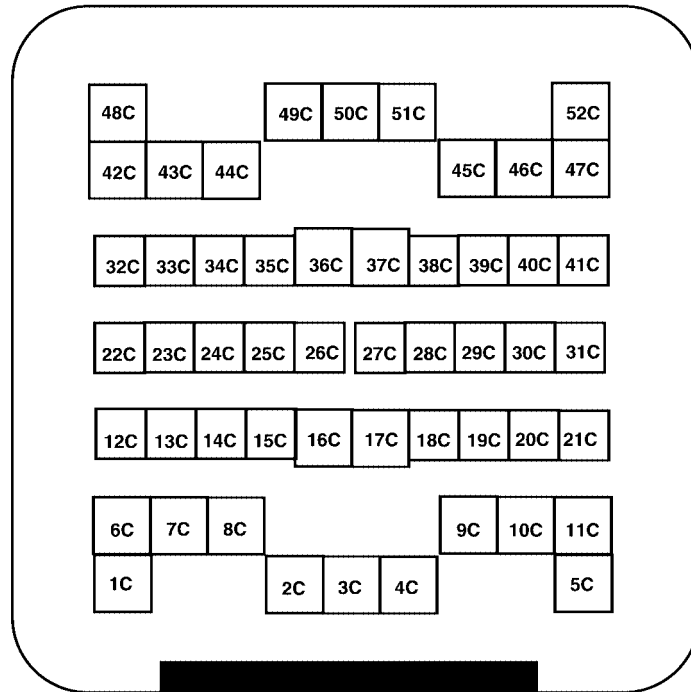
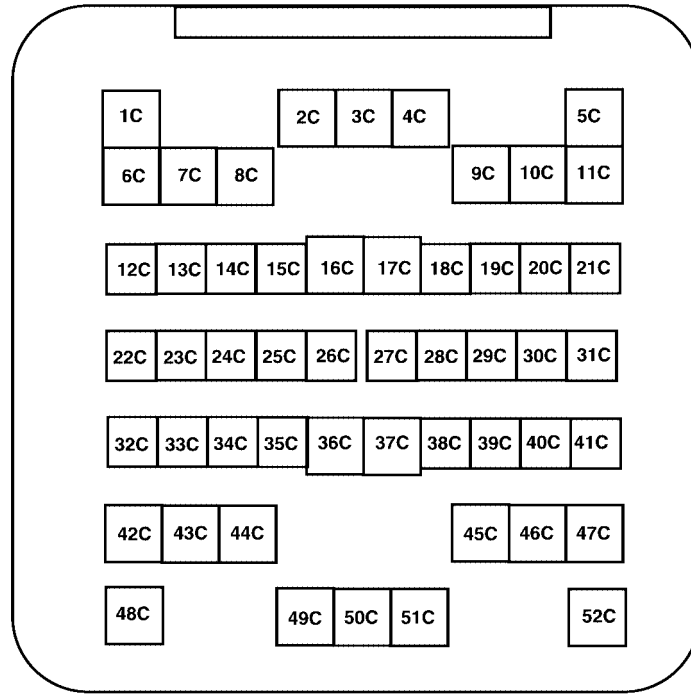
LKIA0385E

# SUPER MULTIPLE JUNCTION (SMJ)

CHASSIS HARNESS



(C1) (Gray)



(E41) (Gray)

ENGINE ROOM HARNESS

WKIA1845E

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
PG  
L  
M

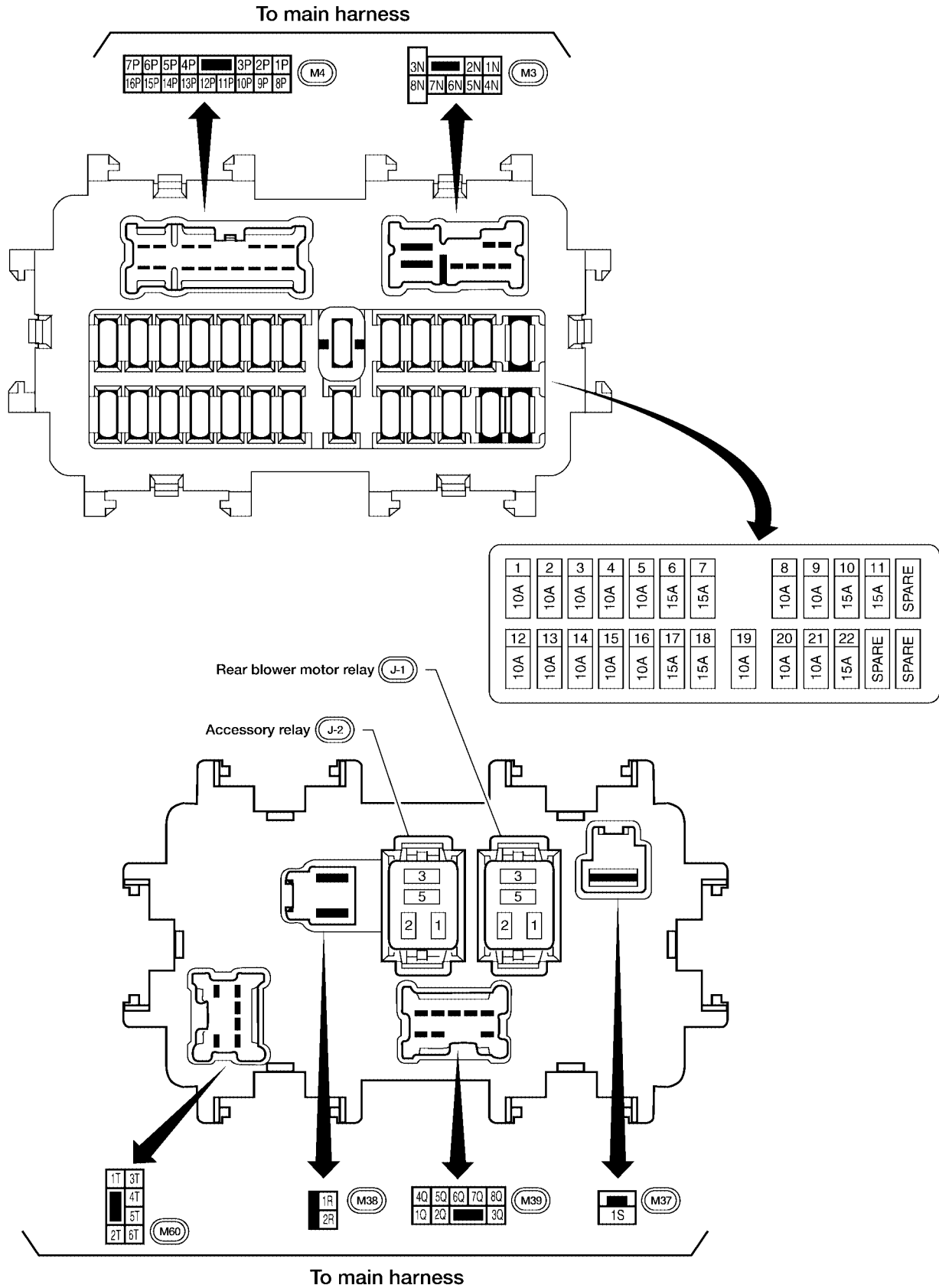
# FUSE BLOCK-JUNCTION BOX (J/B)

PF24350

EKS00BNN

## FUSE BLOCK-JUNCTION BOX (J/B)

### Terminal Arrangement



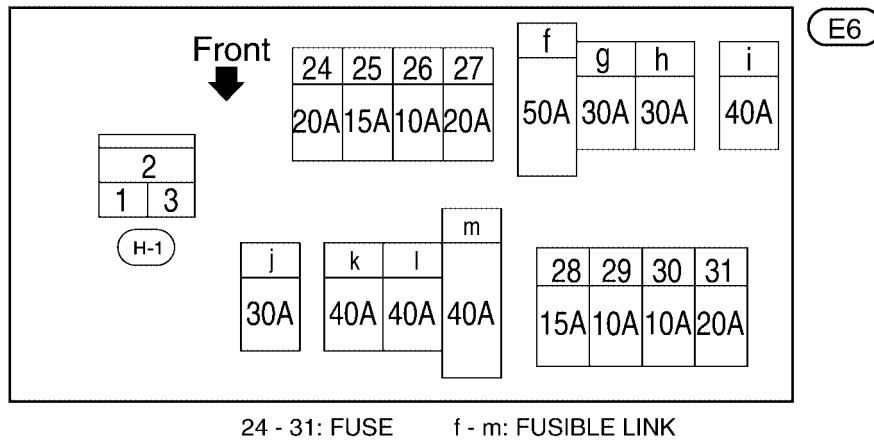
WKIA4690E

# FUSE AND FUSIBLE LINK BOX

## FUSE AND FUSIBLE LINK BOX Terminal Arrangement

PFP:24381

EKS00BNO



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
PG  
L  
M

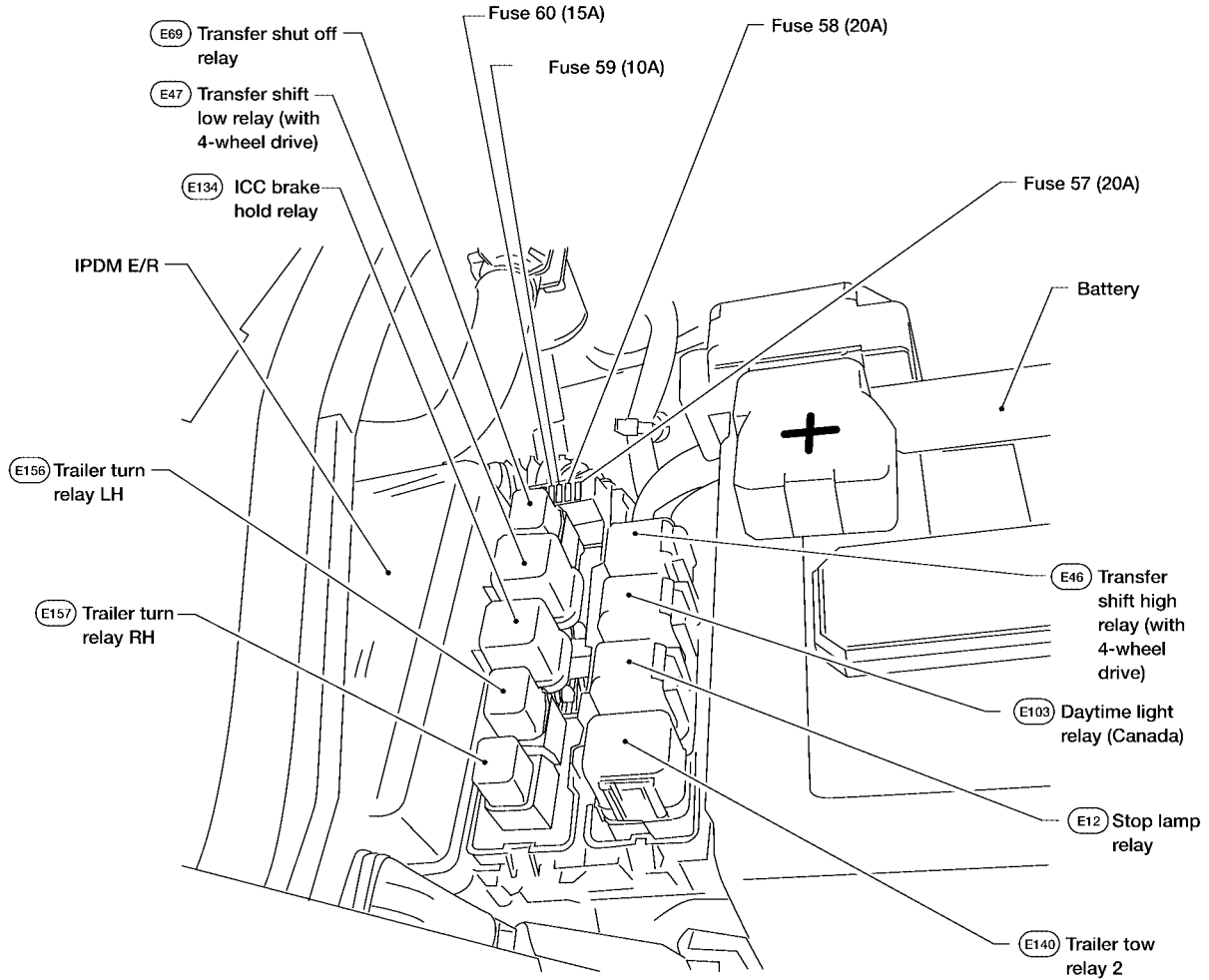
# FUSE AND RELAY BOX

PF2:24012

EKS00BNP

## FUSE AND RELAY BOX

### Terminal Arrangement



WKIA4692E