

SECTION **PG**

**POWER SUPPLY, GROUND & CIRCUIT ELEMENTS**

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# PRECAUTIONS

## PRECAUTIONS

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

EKS00E0D

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.

### Wiring Diagrams and Trouble Diagnosis

EKS00E0E

When you read wiring diagrams, refer to the following:

- Refer to [GI-17, "How to Read Wiring Diagrams"](#) in GI section.
- Refer to [PG-4, "POWER SUPPLY ROUTING CIRCUIT"](#) for power distribution.

When you perform trouble diagnosis, refer to the following:

- Refer to [GI-13, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section.
- Refer to [GI-29, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section.

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# POWER SUPPLY ROUTING CIRCUIT

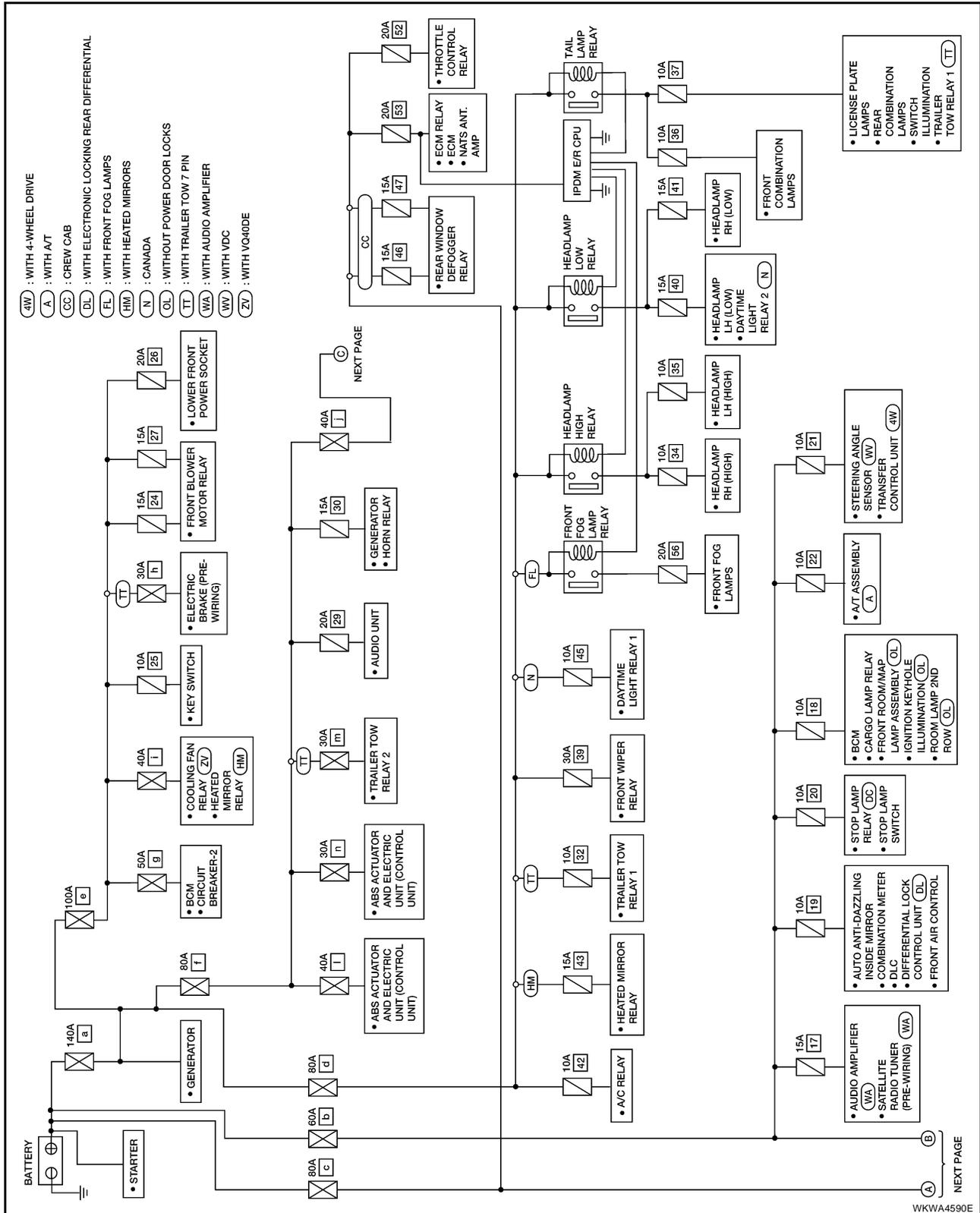
PF2:24110

EKS00E0F

## POWER SUPPLY ROUTING CIRCUIT

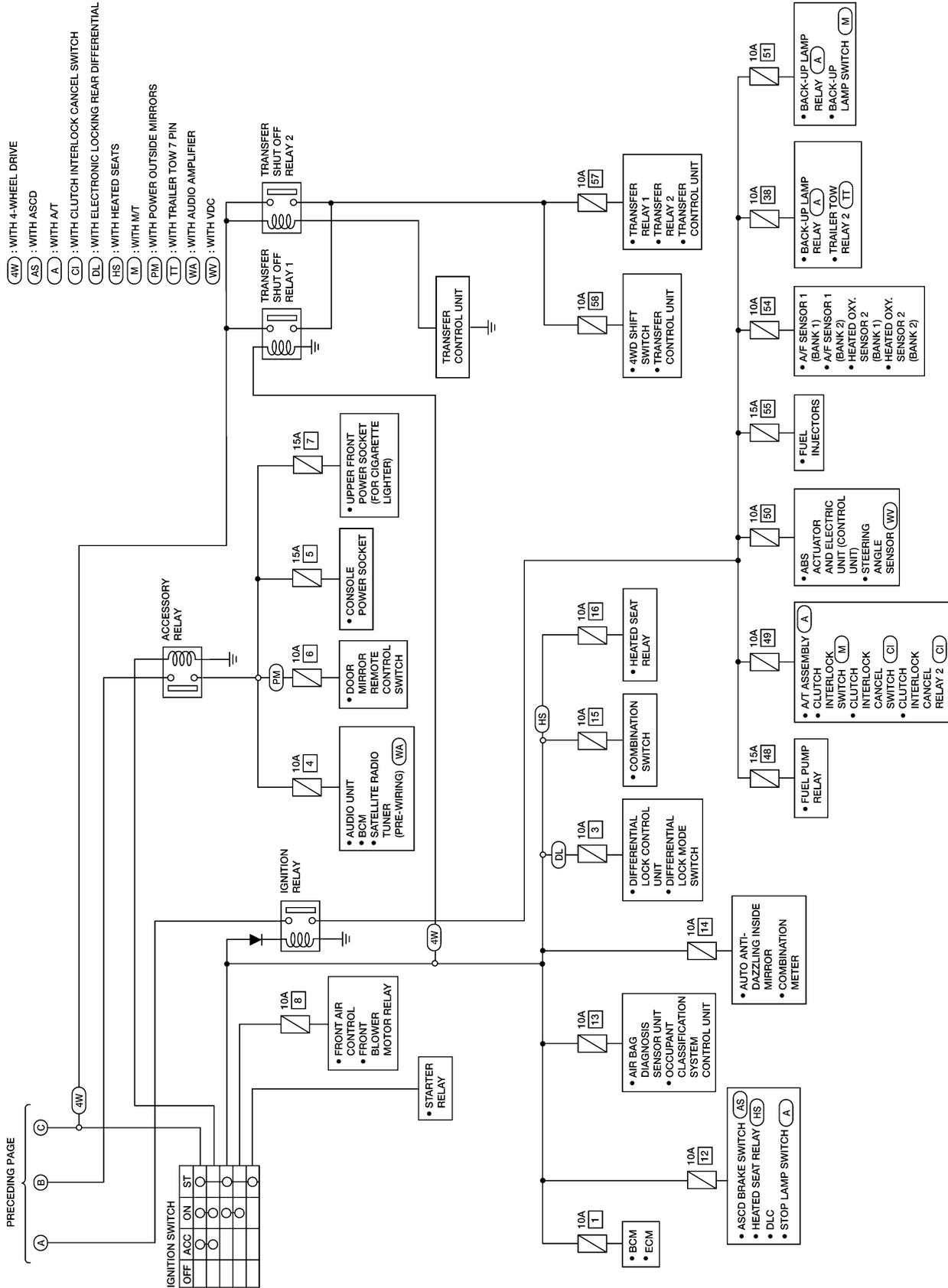
### Schematic

For detailed ground distribution, refer to [PG-30, "Ground Distribution"](#).



WKWA4590E

# POWER SUPPLY ROUTING CIRCUIT



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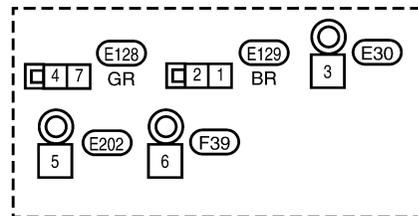
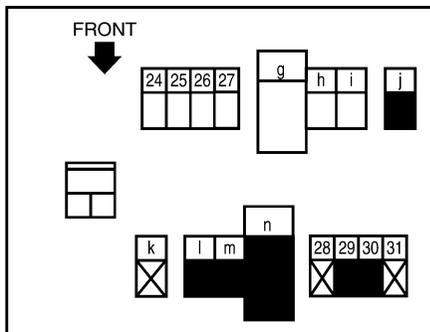
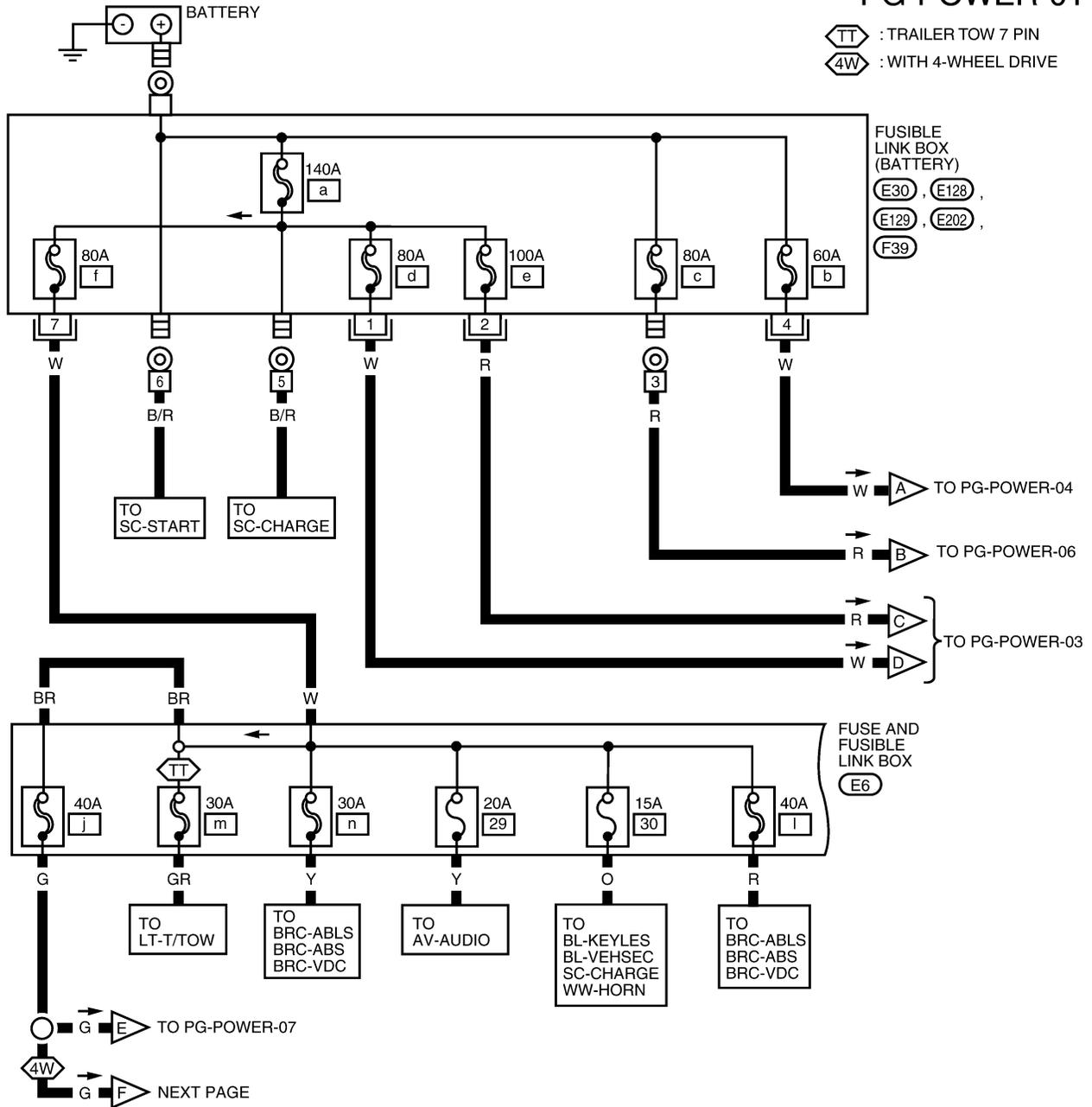
# POWER SUPPLY ROUTING CIRCUIT

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

EKS00EOG

### PG-POWER-01

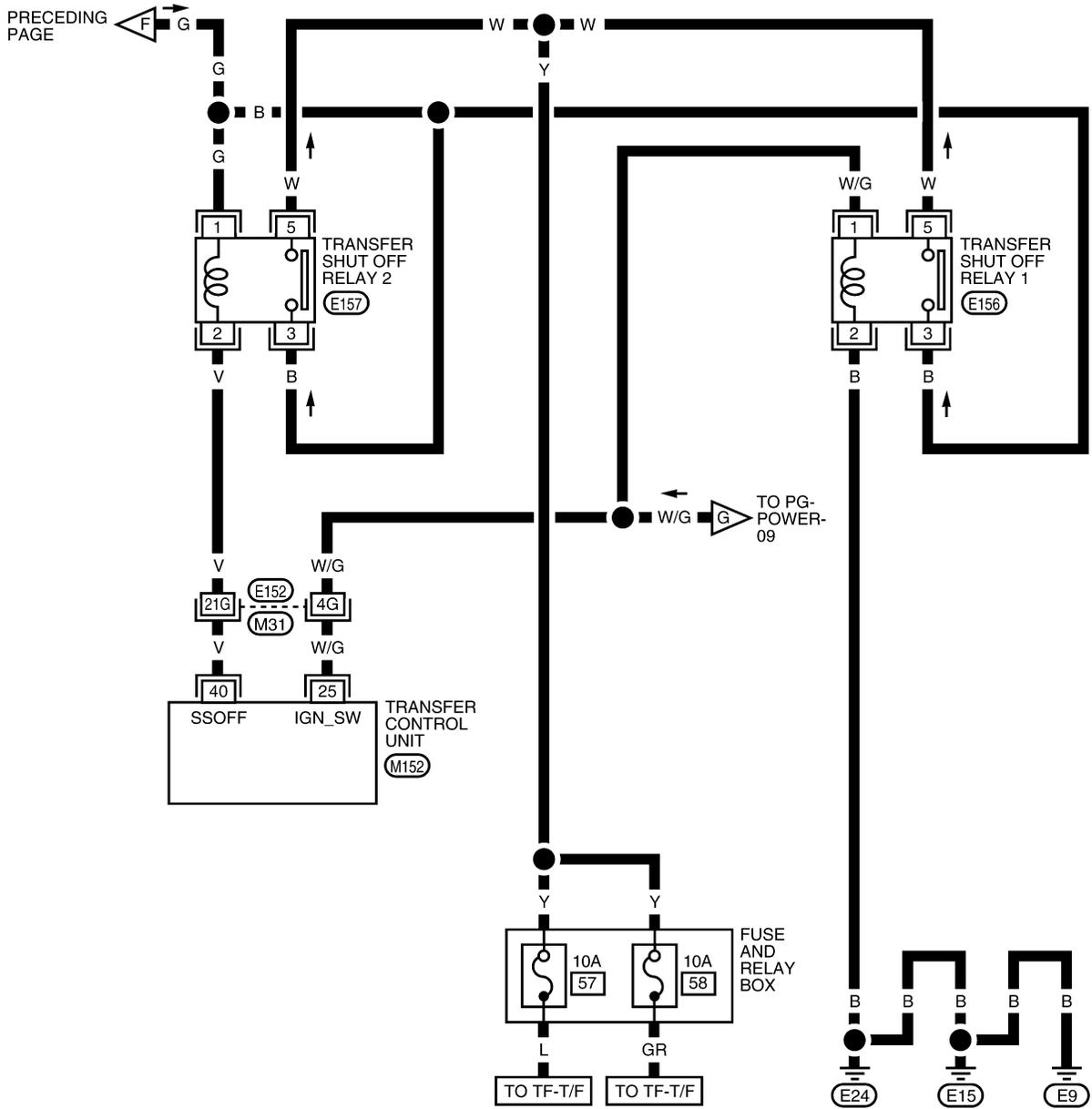
- : TRAILER TOW 7 PIN
- : WITH 4-WHEEL DRIVE



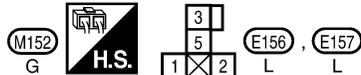
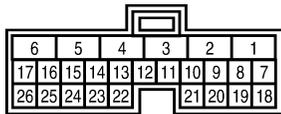
WKWA2992E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-02



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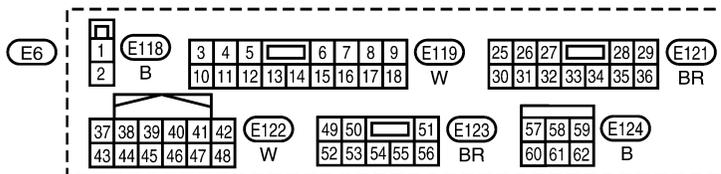
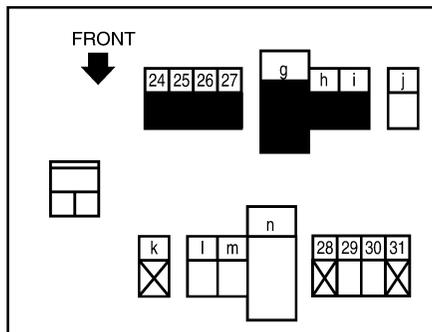
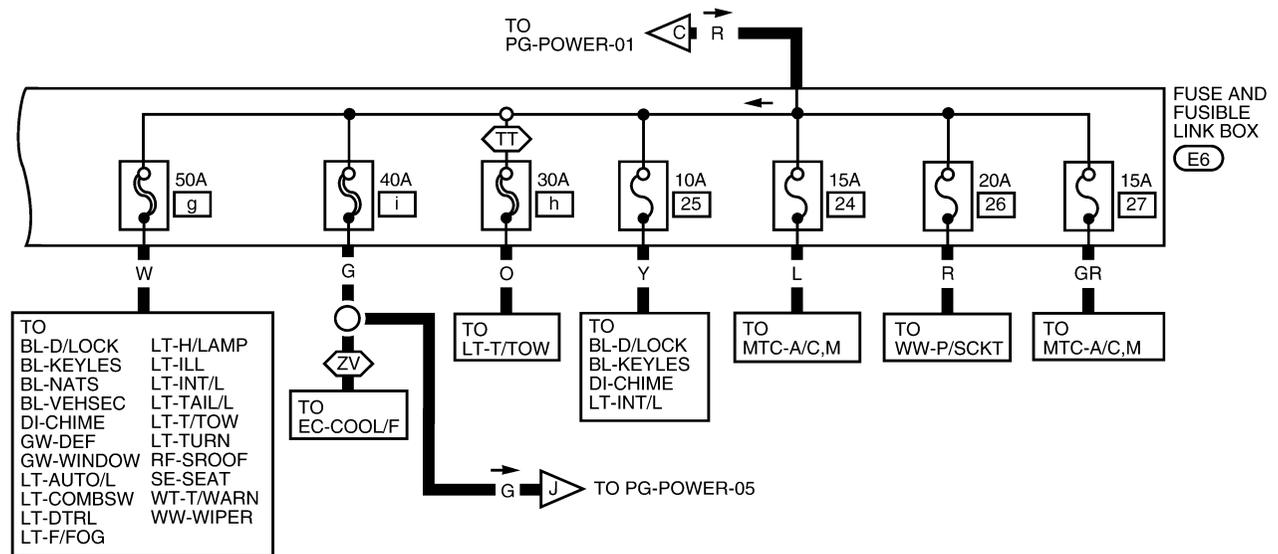
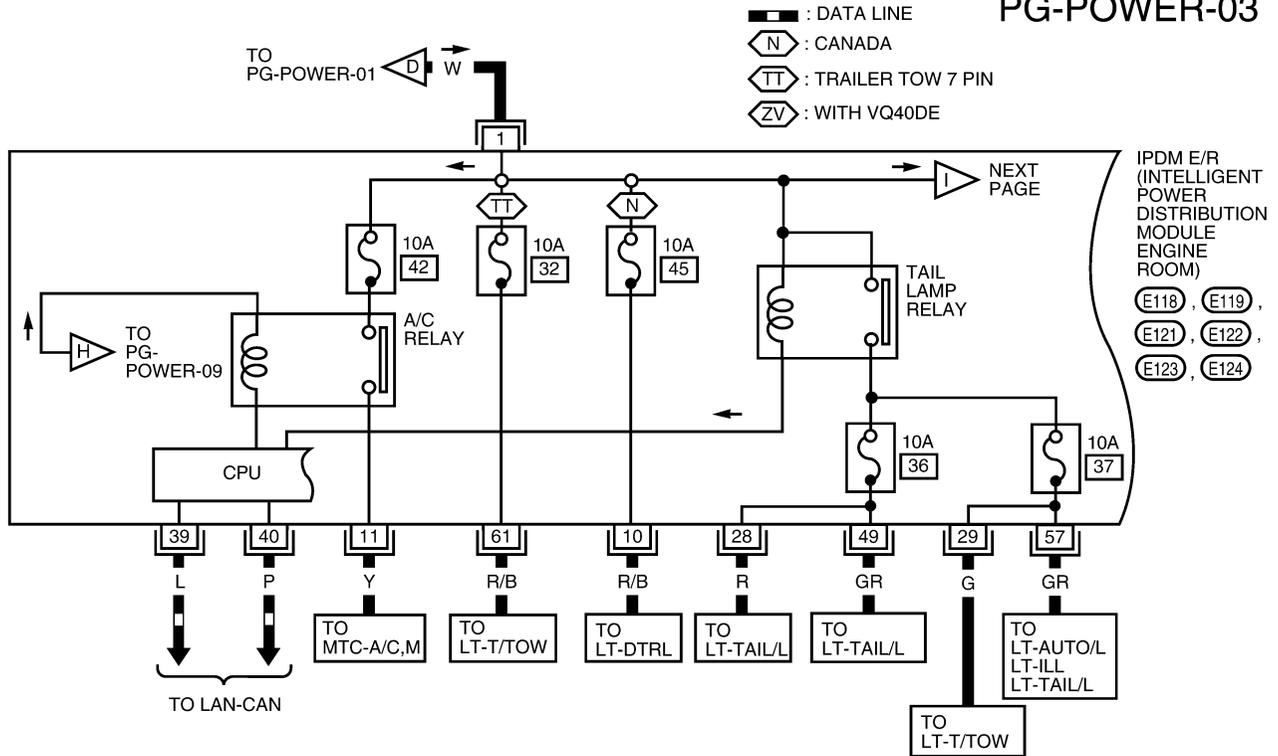


REFER TO THE FOLLOWING.  
 (M31) - SUPER MULTIPLE JUNCTION (SMJ)

WKWA2993E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-03

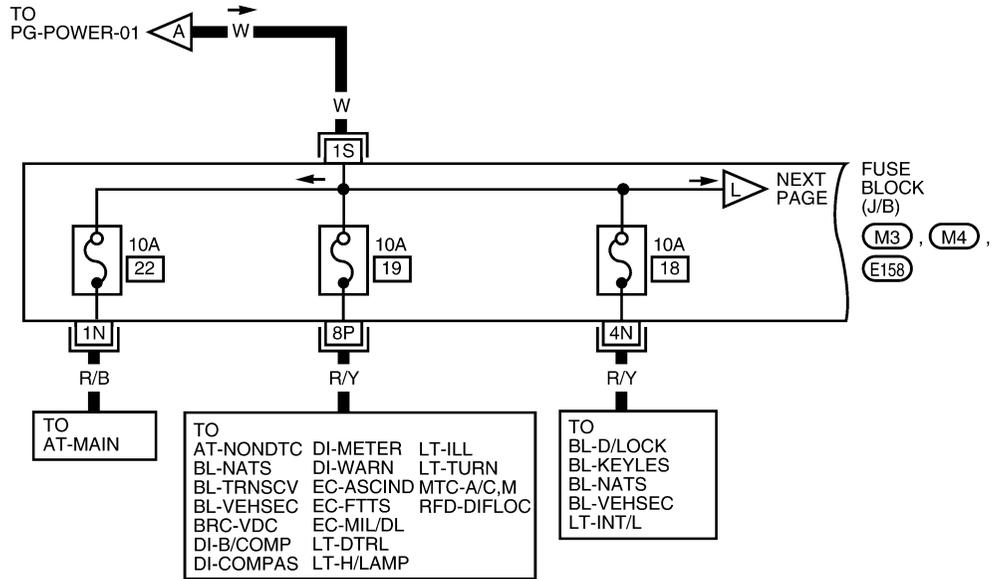
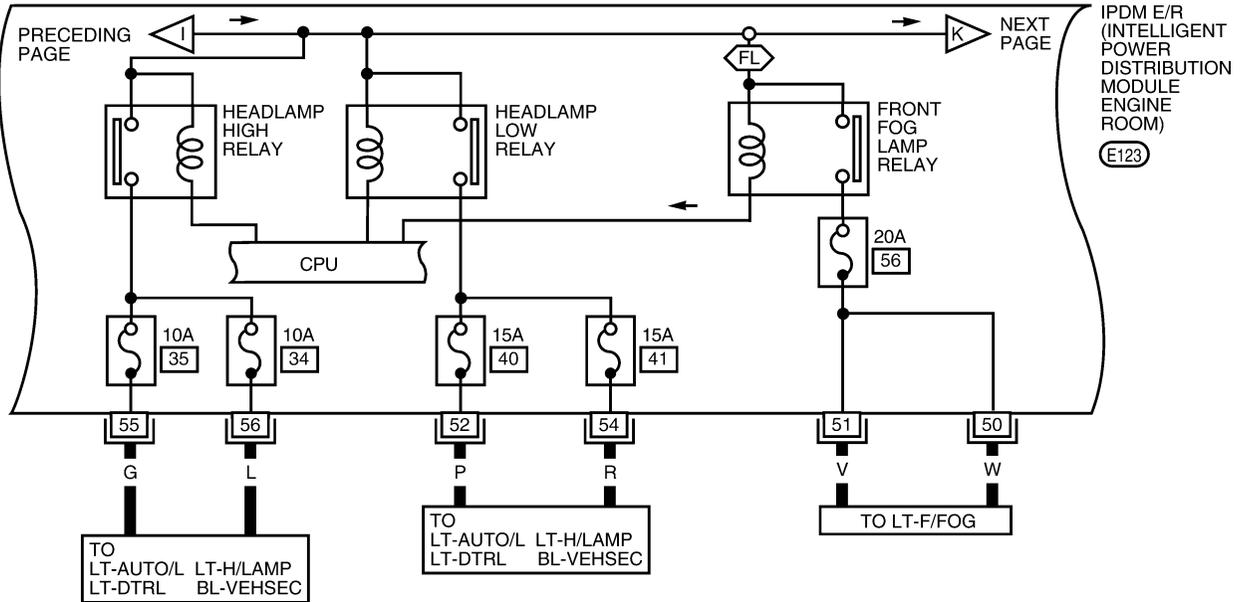


WKWA4591E

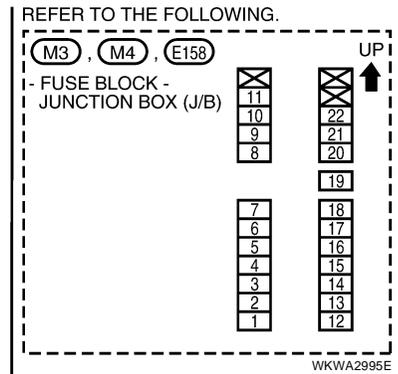
# POWER SUPPLY ROUTING CIRCUIT

## PG-POWER-04

⬡ : WITH FRONT FOG LAMPS



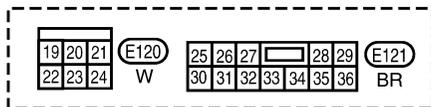
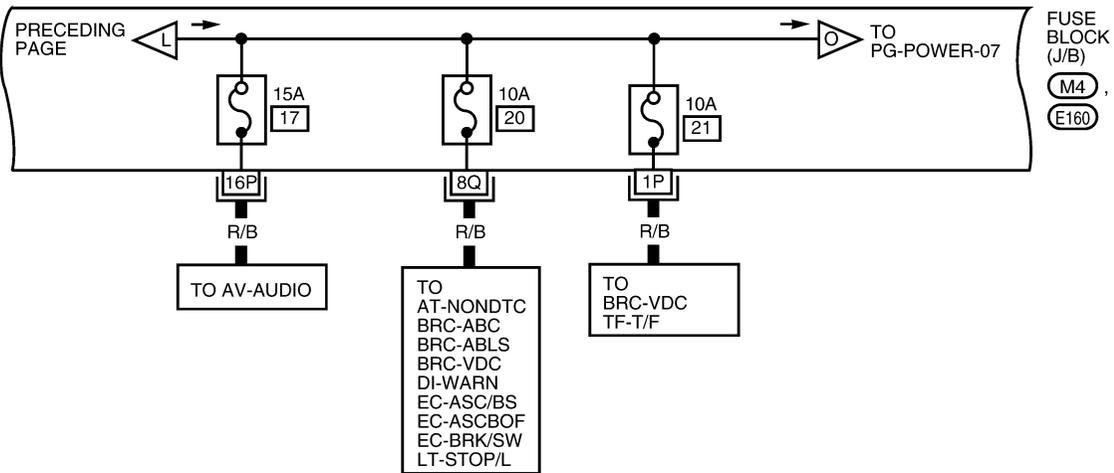
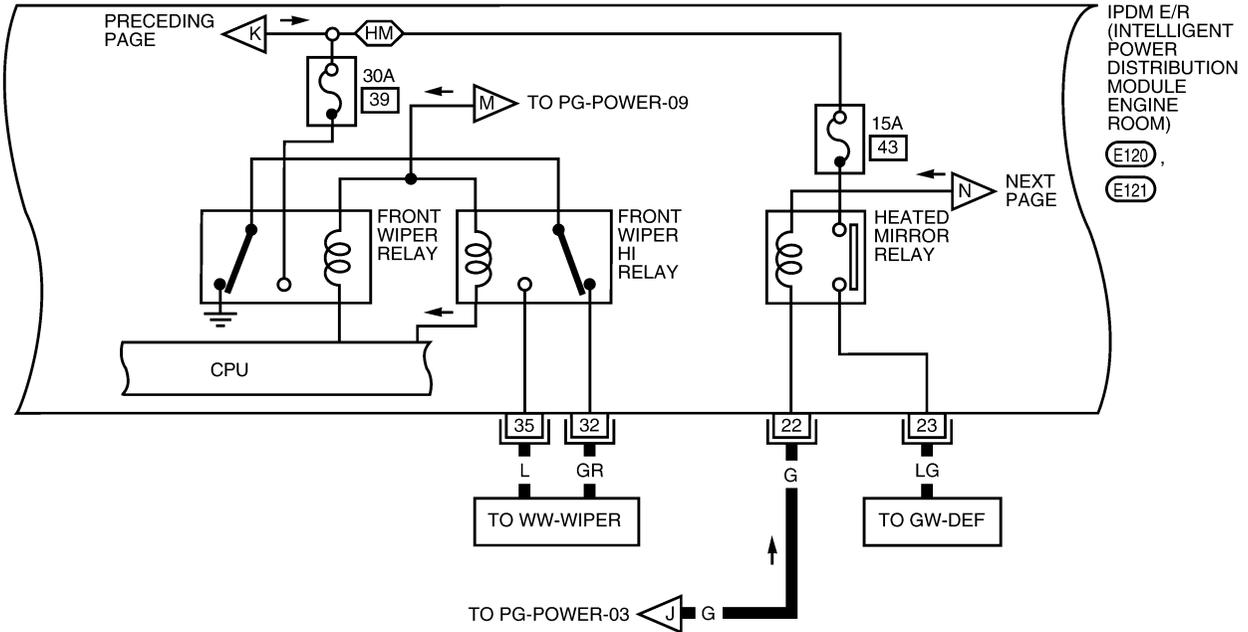
49 50 51 E123  
52 53 54 55 56 BR



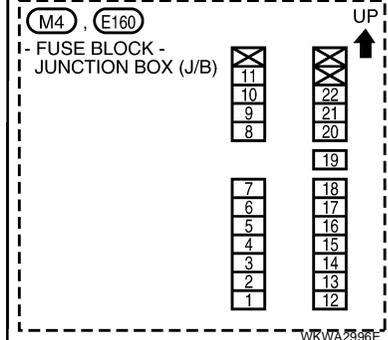
# POWER SUPPLY ROUTING CIRCUIT

## PG-POWER-05

HM : WITH HEATED MIRRORS



REFER TO THE FOLLOWING.

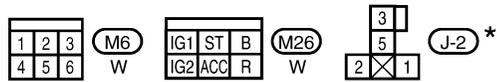
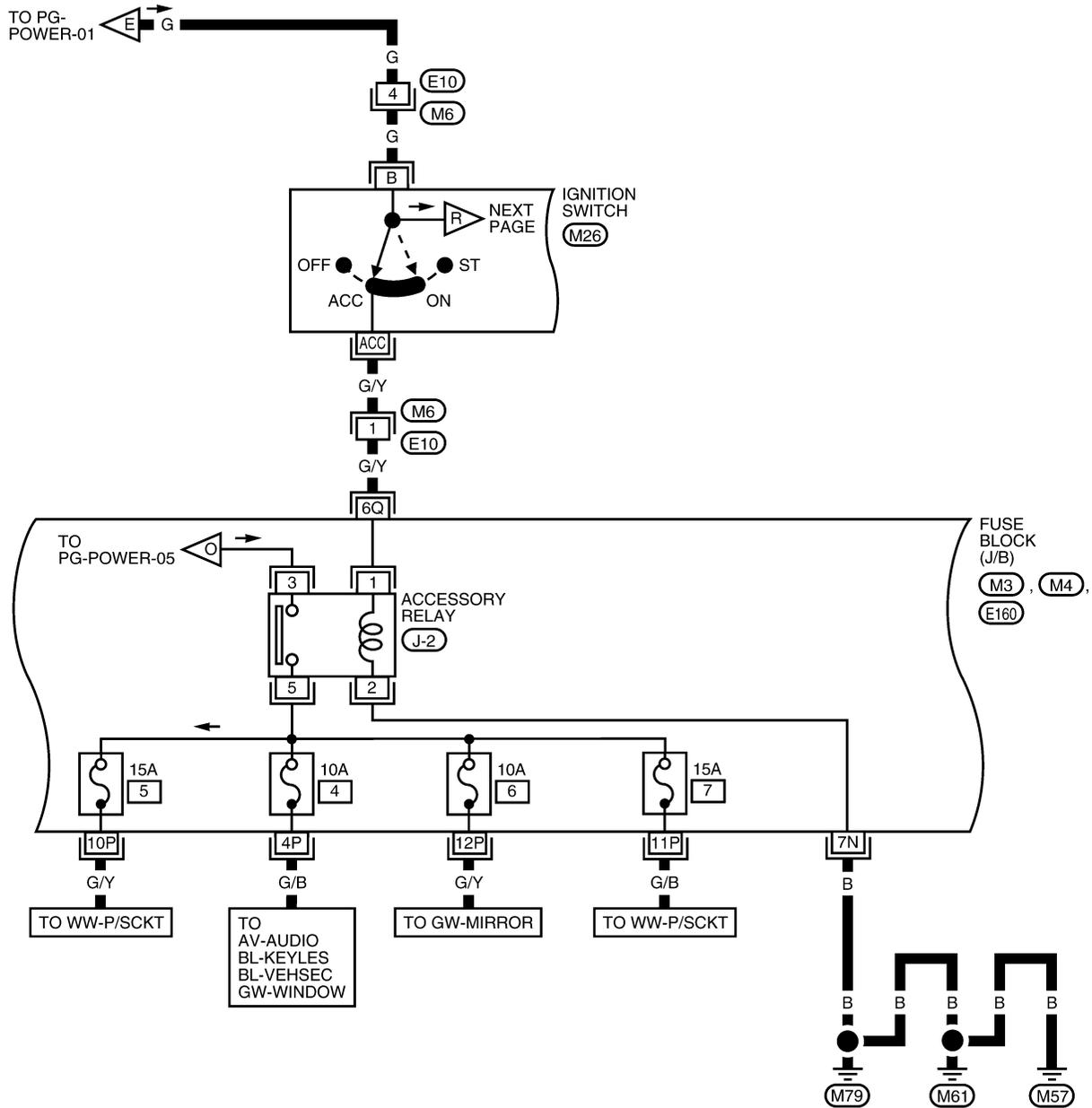




# POWER SUPPLY ROUTING CIRCUIT

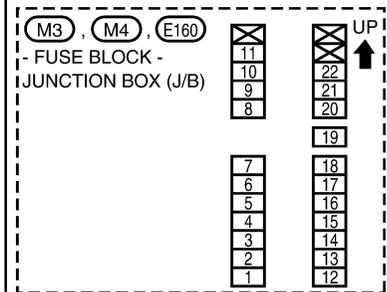
## ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

PG-POWER-07



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

REFER TO THE FOLLOWING.

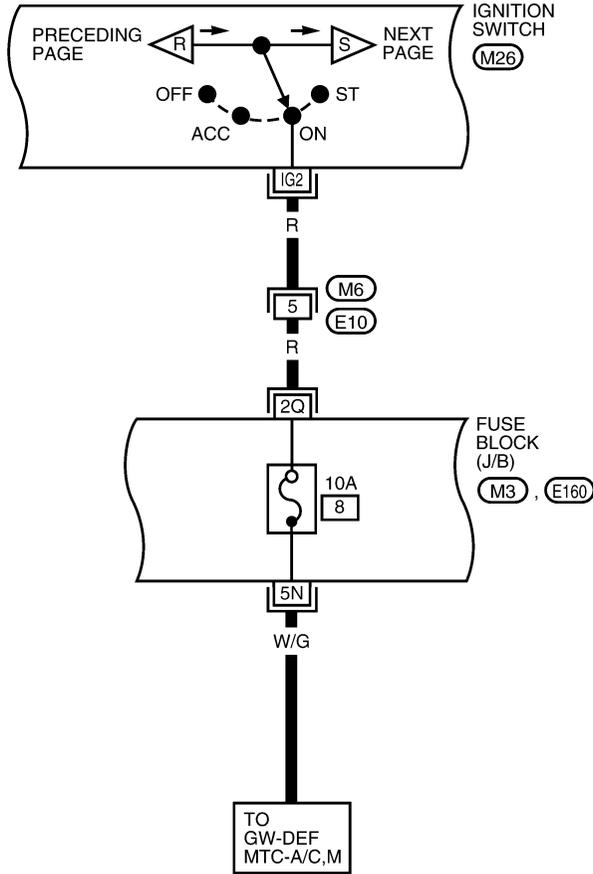


WKWA2723E

# POWER SUPPLY ROUTING CIRCUIT

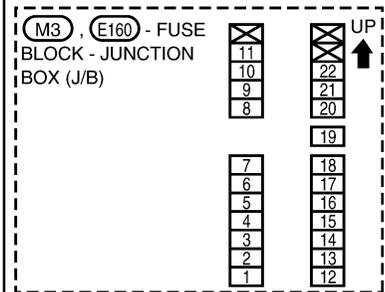
## IGNITION POWER SUPPLY — IGNITION SW. IN ON

PG-POWER-08



1	2	3	M6	IG1	ST	B	M26
4	5	6	W	IG2	ACC	R	W

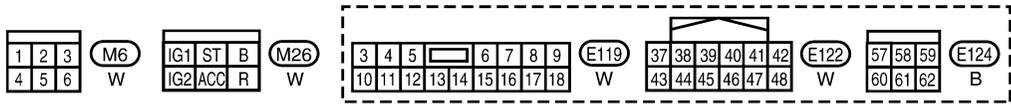
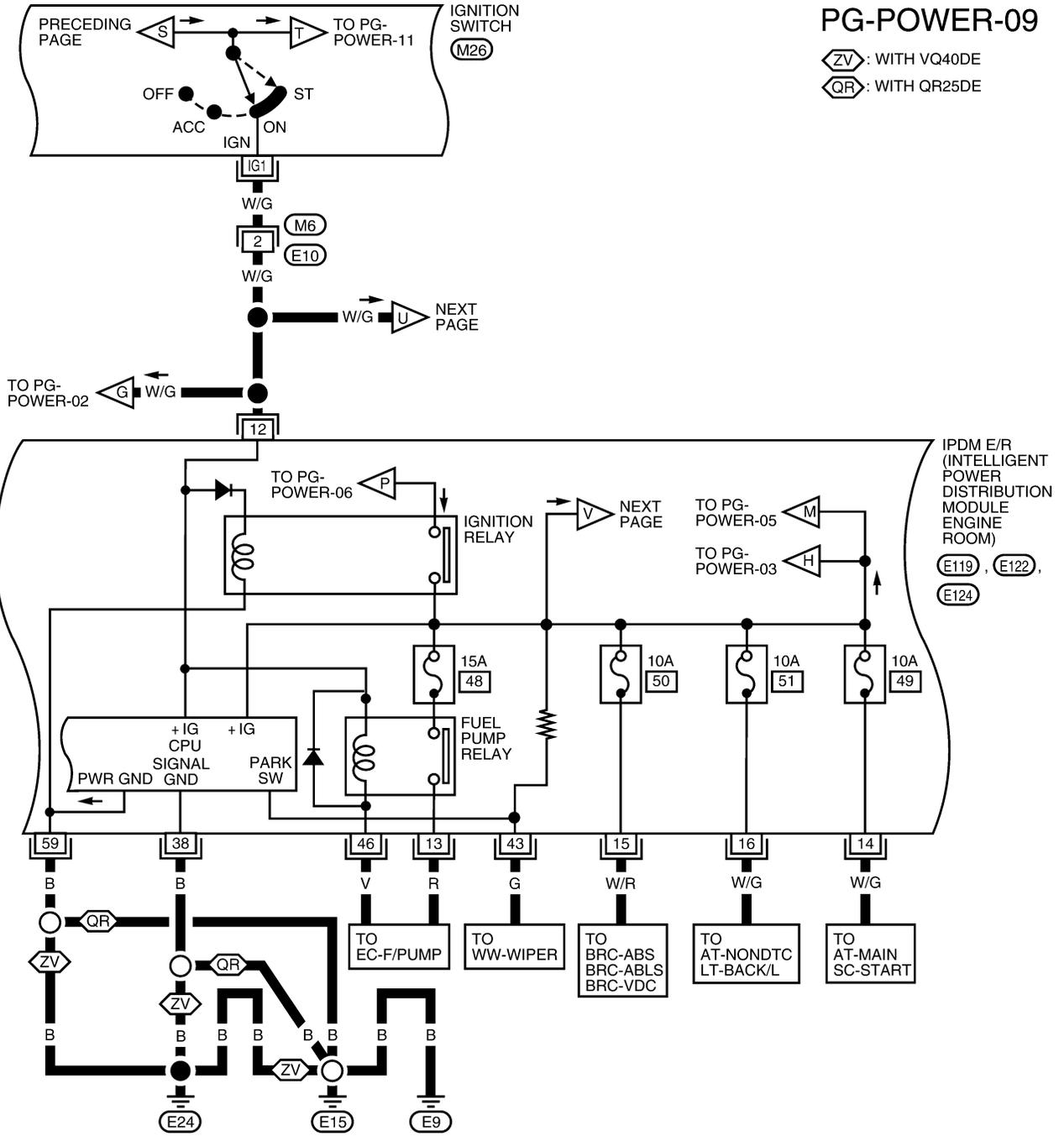
REFER TO THE FOLLOWING.



WKWA2724E

# POWER SUPPLY ROUTING CIRCUIT

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

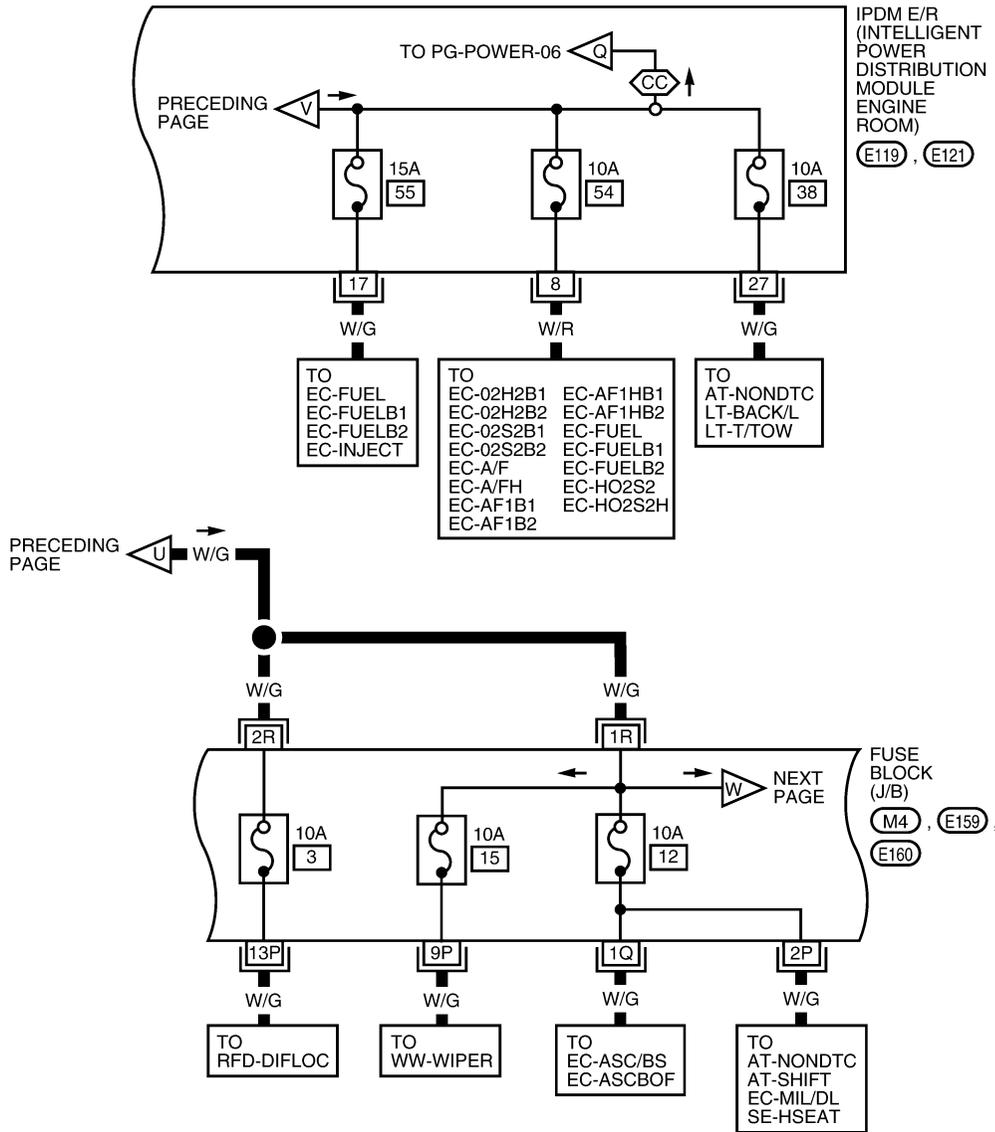


WKWA3013E

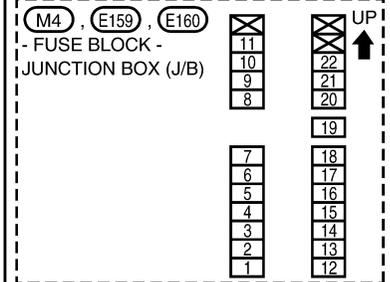
# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-10

CC : CREW CAB



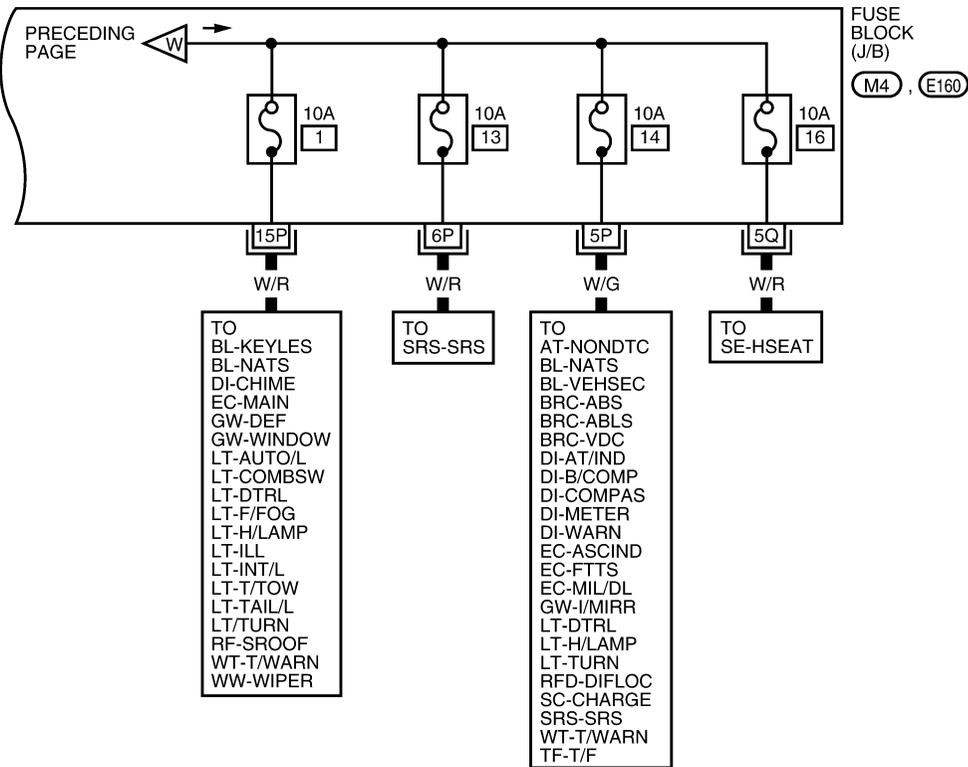
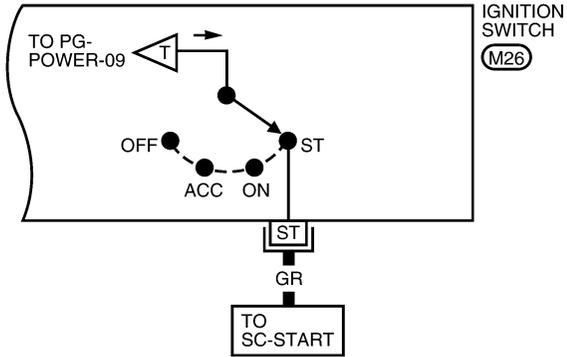
REFER TO THE FOLLOWING.



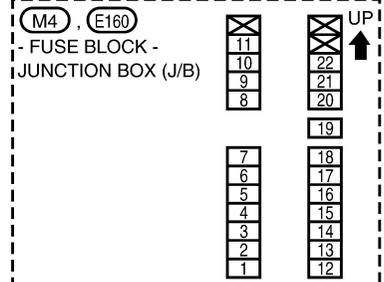
WKWA2998E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-11



REFER TO THE FOLLOWING.



WKWA2999E

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

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

PFP:284B7

EKS00E0H

### System Description

- 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 (High, Low)
  - Parking lamps
  - Daytime light relay control (Canada only)
  - Tail and license plate lamps
  - Front fog lamps
2. Daytime light relay control (Canada only)  
Using CAN communication lines, it receives signals from the BCM and controls the daytime light relay.
3. Wiper control  
Using CAN communication lines, it receives signals from the BCM and controls the front wipers.
4. Rear window defogger relay control (crew cab only)  
Using CAN communication lines, it receives signals from the BCM and controls the rear window defogger relay.
5. A/C compressor control  
Using CAN communication lines, it receives signals from the BCM and controls the A/C compressor (magnetic clutch).
6. Starter control  
Using CAN communication lines, it receives signals from the BCM and controls the starter relay.
7. Cooling fan control (with VQ40DE)  
Using CAN communication lines, it receives signals from the ECM and controls the cooling fan relays.
8. 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, license plate and parking lamps	<ul style="list-style-type: none"><li>● With the ignition switch ON, the tail lamp relay is ON.</li><li>● With the ignition switch OFF, the tail lamp relay is OFF.</li></ul>
Cooling fan	<ul style="list-style-type: none"><li>● With the ignition switch ON, the cooling fan HIGH operates.</li><li>● With the ignition switch OFF, the cooling fan stops.</li></ul>

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

Controlled system	Fail-safe mode
Front wiper	Until the ignition switch is turned off, the front wiper LOW and HIGH remains in the same status it was in just before fail-safe control was initiated.
Rear window defogger	Rear window defogger relay OFF
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 by itself 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 3 seconds have 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

EKS00E0I

Refer to [LAN-22, "CAN COMMUNICATION"](#) .

## Function of Detecting Ignition Relay Malfunction

EKS00E0J

- 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)

## CONSULT-II Function (IPDM E/R)

EKS00EOK

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

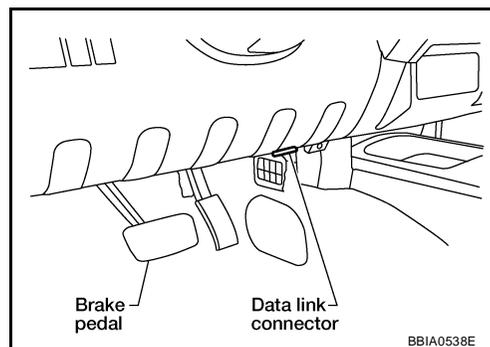
IPDM E/R diagnostic Mode	Description
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.
DATA MONITOR	Displays IPDM E/R input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can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

### CONSULT-II BASIC OPERATION

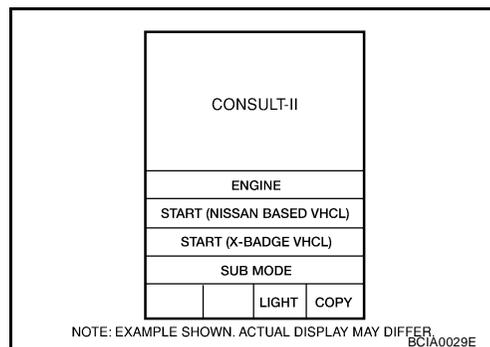
#### CAUTION:

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.

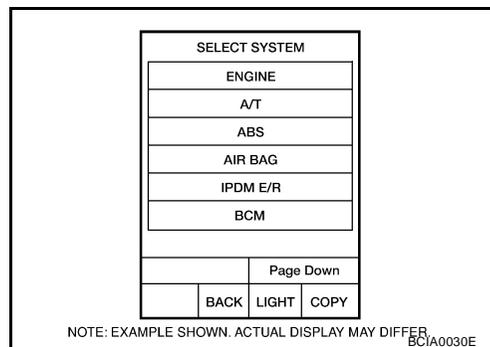
1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn ignition switch ON.



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



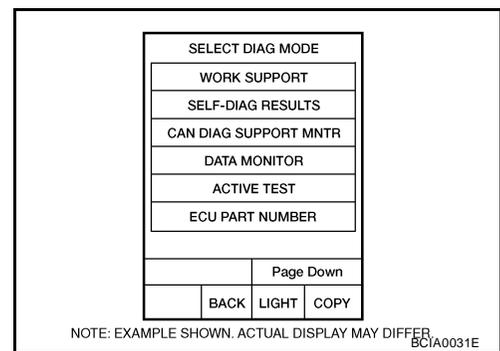
3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
  - If "IPDM E/R" is not displayed, go to [GI-40, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#).



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

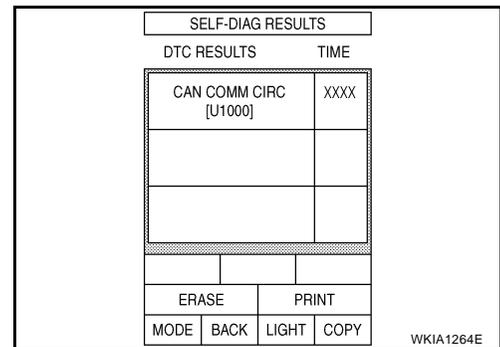
- Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



## 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".

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

4. 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.
5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

## 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 BCM
Parking, license plate, 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 lamps request	FR FOG REQ	ON/OFF	X	X	X	Signal status input from BCM
Front wiper request	FR WIP REQ	STOP/1LO/LO/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/LS/HS/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
Hood switch	HOOD SW	OFF	X			Signal status input from IPDM E/R (function is not enabled)
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 lights request	DTRL REQ	ON/OFF	X		X	Signal status input from BCM
Oil pressure switch	OILPSW	OPEN/CLOSE	X		X	Signal status input from IPDM E/R

### 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.

### 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.

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

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.
Headlamp relay (HI, LO) 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.
Front fog lamp relay (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.
Tail lamp relay 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.
Horn output	HORN	With a certain ON-OFF operation, the horn relay can be operated.

## Auto Active Test DESCRIPTION

EKS00EOL

- 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, license plate, front fog, and parking lamps
  - Headlamps (High, Low)
  - A/C compressor (magnetic clutch)
  - Cooling fan (with VQ40DE)

## 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.

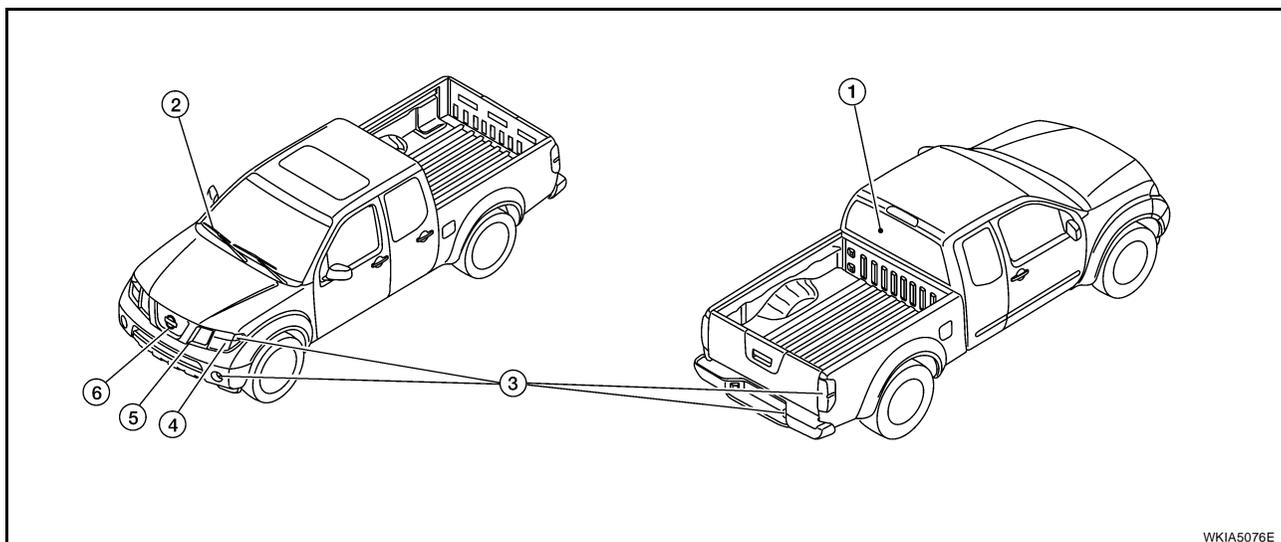
### CAUTION:

Be sure to perform [BL-35, "Door Switch Check \(King Cab\)"](#) or [BL-37, "Door Switch Check \(Crew Cab\)"](#) when the auto active test cannot be performed.

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

## INSPECTION IN AUTO ACTIVE TEST MODE

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



Item Number	Test Item	Operation Time/Frequency
1	Rear window defogger (crew cab only)	10 seconds
2	Front wipers	LOW 5 seconds then HIGH 5 seconds
3	Tail, license plate, front fog and parking lamps	10 seconds
4	Headlamps	Low on for 10 seconds. High on-off five times.
5	A/C compressor (magnetic clutch)	ON-OFF 5 times
6	Cooling fan (with VQ40DE)	LOW 5 seconds then HIGH 5 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.	Perform auto active test. Does rear window defogger 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 (High, Low) do not operate.	Perform auto active test. Does system in question 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

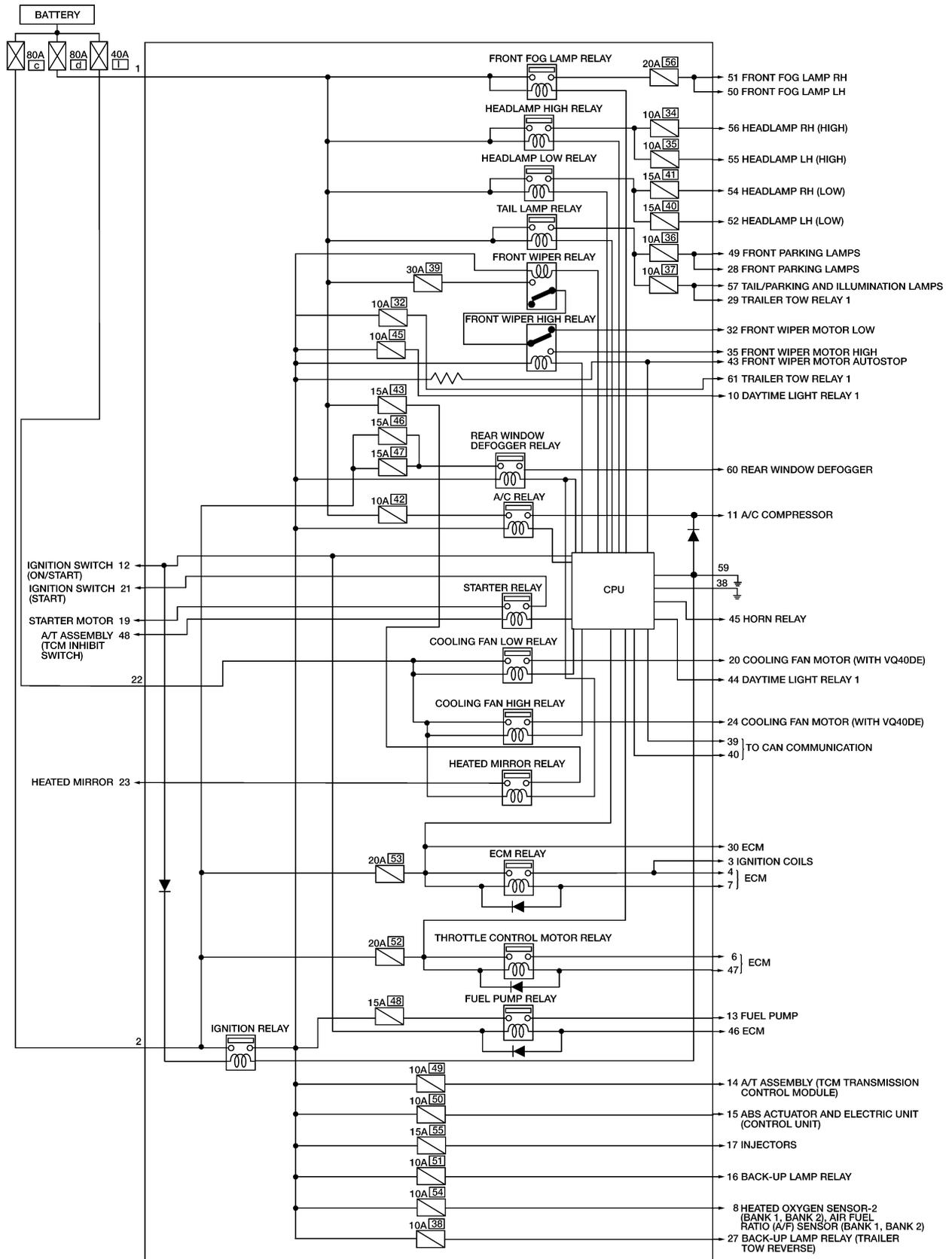
# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Symptom	Inspection contents	Possible cause	
A/C compressor does not operate.	Perform auto active test. Does magnetic clutch operate?	YES	<ul style="list-style-type: none"> <li>● BCM signal input circuit</li> <li>● CAN communication signal between BCM and ECM</li> <li>● CAN communication signal between ECM and IPDM E/R</li> </ul>
		NO	<ul style="list-style-type: none"> <li>● Magnetic clutch malfunction</li> <li>● Harness/connector malfunction between IPDM E/R and magnetic clutch</li> <li>● IPDM E/R (integrated relay) malfunction</li> </ul>
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	YES	<ul style="list-style-type: none"> <li>● ECM signal input circuit</li> <li>● CAN communication signal between ECM and IPDM E/R</li> </ul>
		NO	<ul style="list-style-type: none"> <li>● Cooling fan motor malfunction</li> <li>● Harness/connector malfunction between IPDM E/R and cooling fan motor</li> <li>● IPDM E/R (integrated relay) malfunction</li> </ul>

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

## Schematic

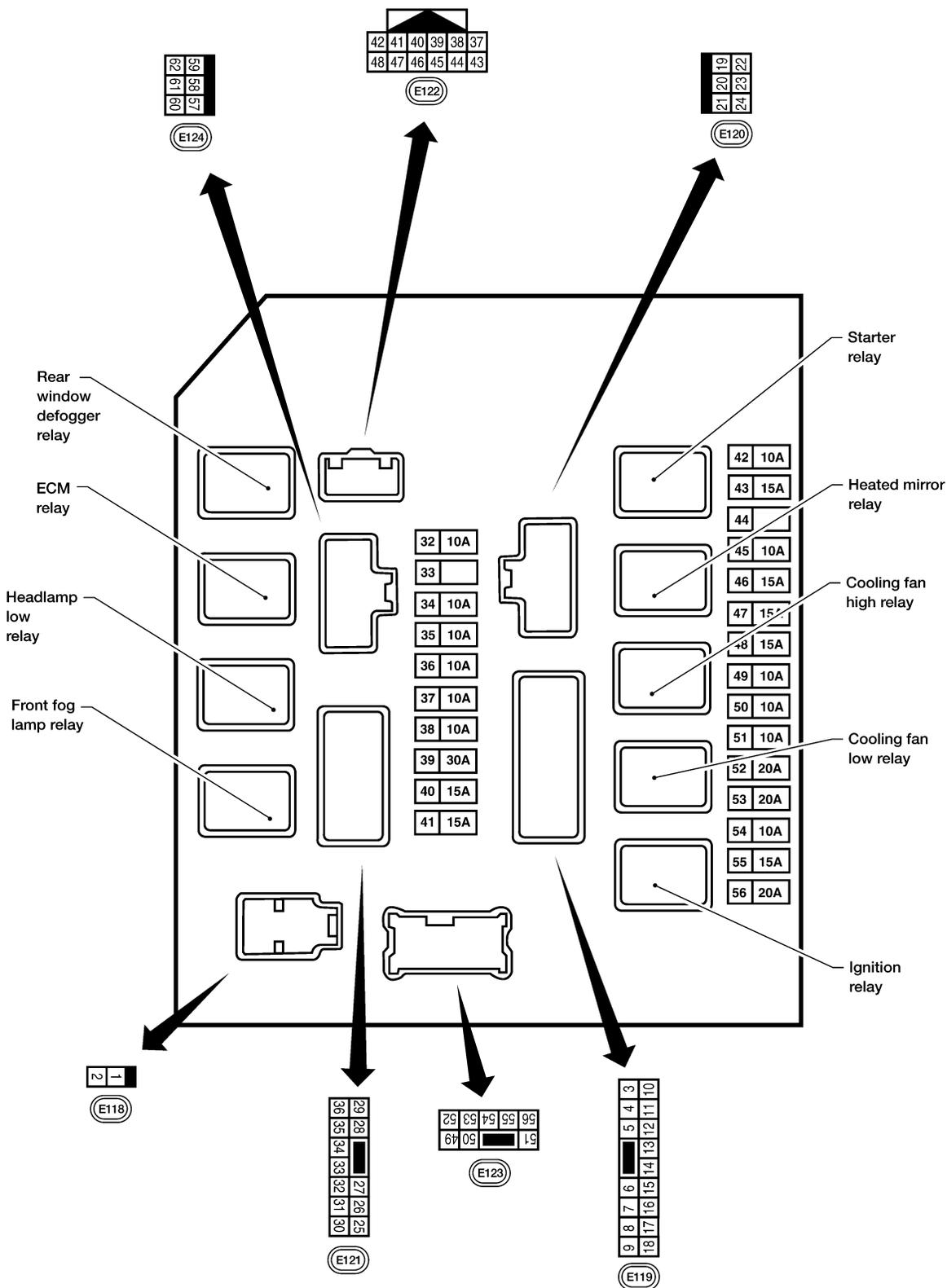
EKS00EOM



WKWA4461E

## IPDM E/R Terminal Arrangement

EKS00E0N



WKIA1695E

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

## IPDM E/R Power/Ground Circuit Inspection

EKS00FPK

### 1. FUSE AND FUSIBLE LINK INSPECTION

Check that the following fusible links are not blown.

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

OK or NG

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

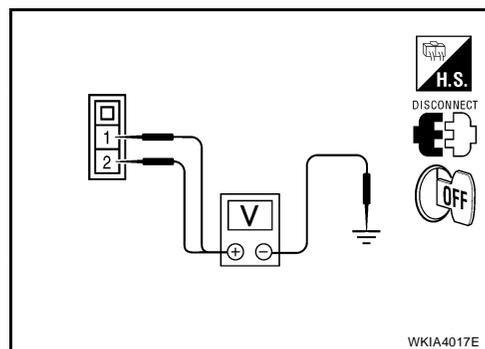
### 2. POWER CIRCUIT INSPECTION

- Turn ignition switch off.
- Disconnect IPDM E/R harness connector E118.
- Check voltage between IPDM E/R harness connector and ground.

Terminals		Voltage (Approx.)
(+)		
IPDM E/R connector	Terminal	(-)
E118	1, 2	Ground
		Battery voltage

OK or NG

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



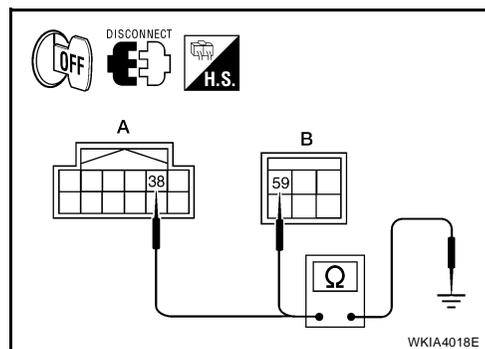
### 3. GROUND CIRCUIT INSPECTION

- Disconnect IPDM E/R harness connectors E122 and E124.
- Check continuity between IPDM E/R harness connectors and ground.

A		B		Continuity
Connector	Terminal	Connector	Terminal	
IPDM E/R: E122	38	IPDM E/R: E124	59	Yes

OK or NG

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



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

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

EKS00EOP

### 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) carries out CAN communication.

### 1. SELF-DIAGNOSIS RESULT CHECK

1. Connect CONSULT-II and select "IPDM E/R" on the "SELECT SYSTEM" screen.
2. Select "SELF-DIAG RESULTS" on the "SELECT DIAG MODE" 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.

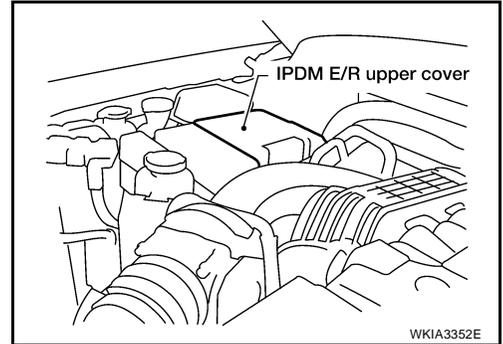
CAN COMM CIRC>>Print out the self-diagnosis result and refer to [LAN-22, "CAN COMMUNICATION"](#) .

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

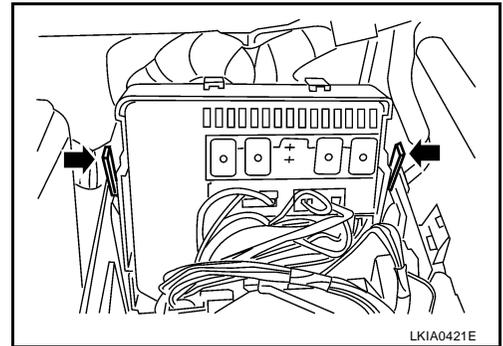
EKS00E00

## 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.

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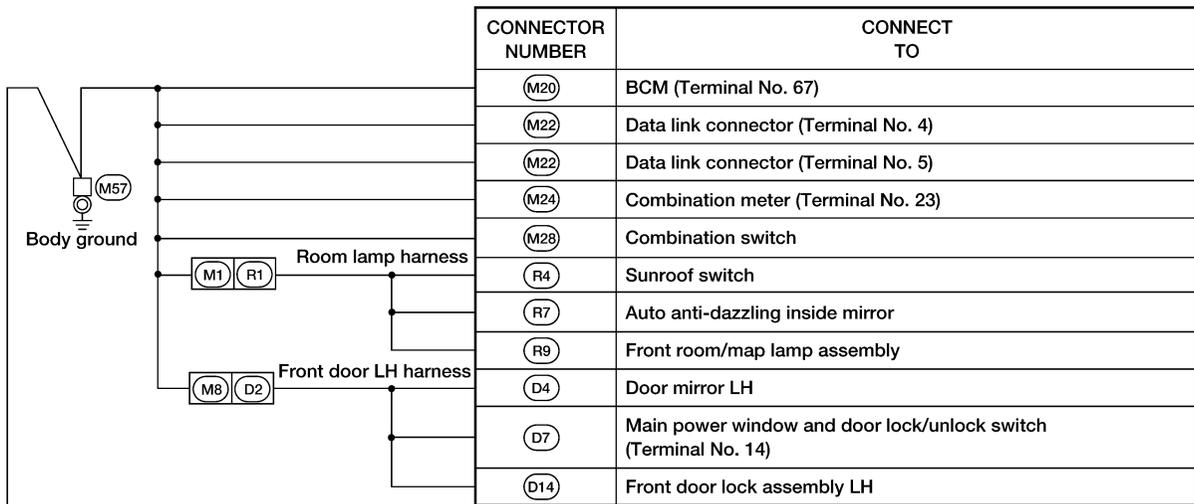
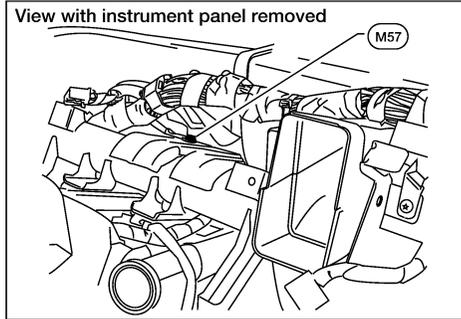
# GROUND CIRCUIT

PFP:24080

## GROUND CIRCUIT

### Ground Distribution MAIN HARNESS

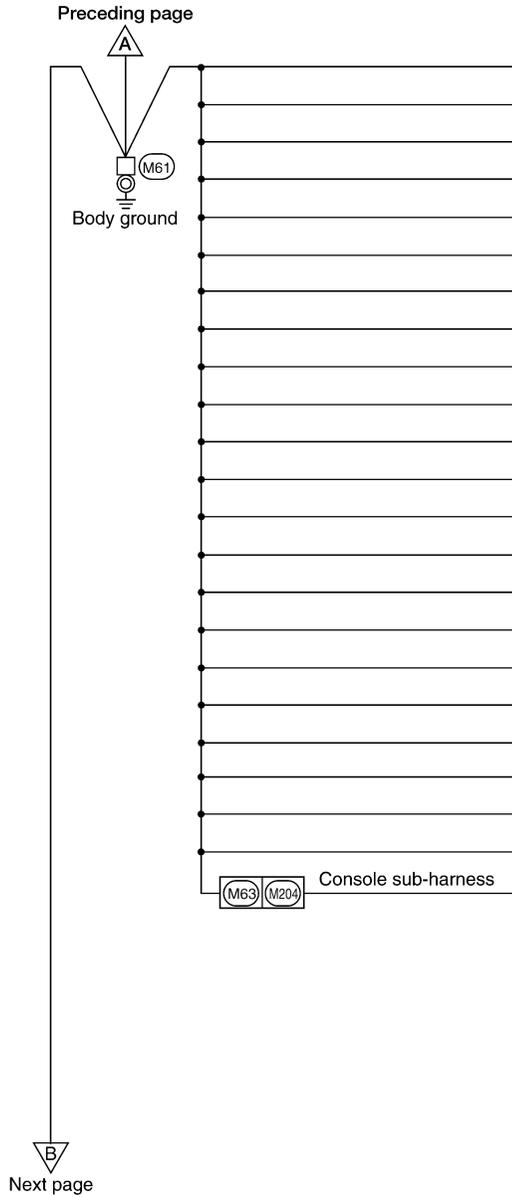
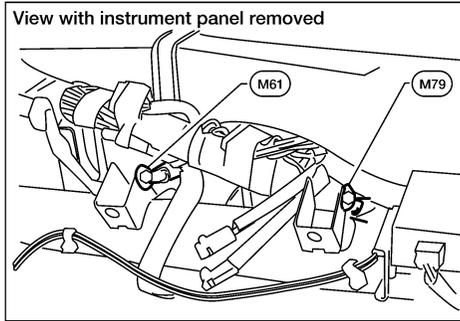
EKS00EOR



Next page

WKIA3772E

# GROUND CIRCUIT

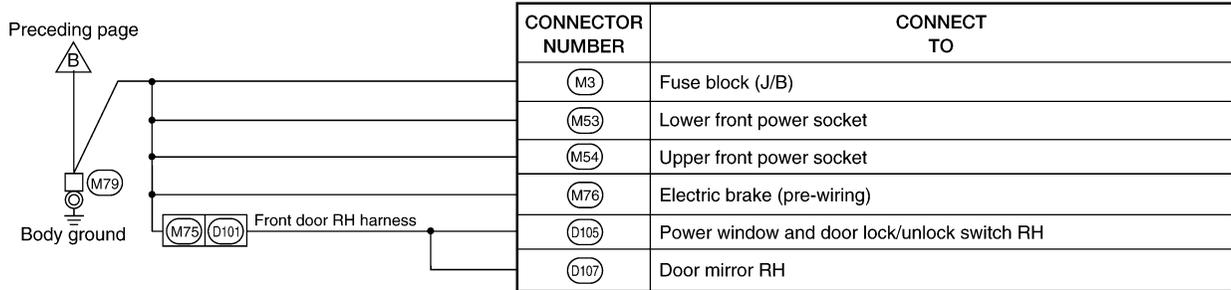
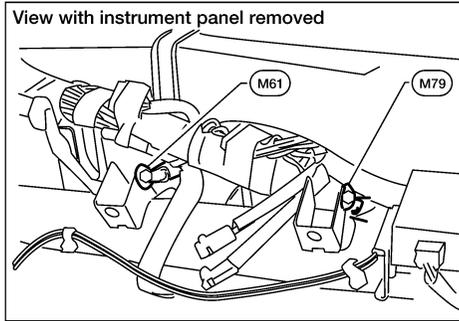


CONNECTOR NUMBER	CONNECT TO
(M13)	Front passenger air bag off indicator
(M21)	NATS antenna amp.
(M24)	Combination meter (Terminal No. 13)
(M35)	Air bag diagnosis sensor
(M47)	Steering angle sensor
(M49)	Front air control
(M51)	Front blower switch
(M55)	Hazard switch
(M71)	Cargo lamp switch
(M97)	Heated seat relay
(M152)	Transfer control unit (Terminal No. 6)
(M152)	Transfer control unit (Terminal No. 18)
(M153)	Transfer control unit (Terminal No. 32)
(M154)	VDC off switch
(M155)	HDC switch
(M156)	A/T device (Terminal No. 2)
(M156)	A/T device (Terminal No. 8)
(M156)	A/T device (Terminal No. 10)
(M159)	Door mirror remote control switch
(M160)	Front heated seat switch RH
(M161)	Front heated seat switch LH
(M163)	Clutch interlock cancel switch
(M207)	Console power socket

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WKIA4051E

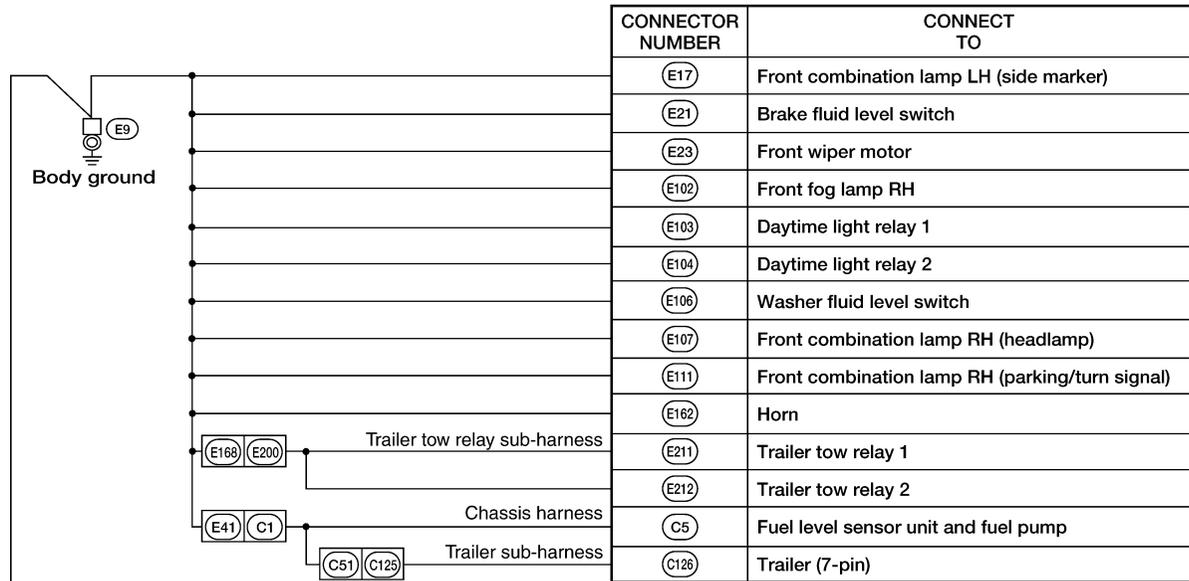
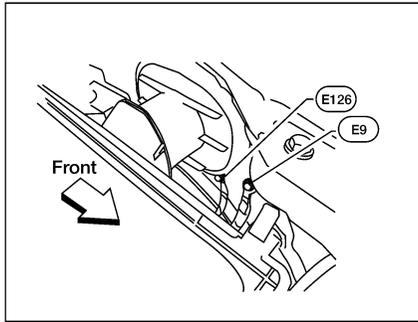
# GROUND CIRCUIT



WKIA4098E

# GROUND CIRCUIT

## ENGINE ROOM HARNESS

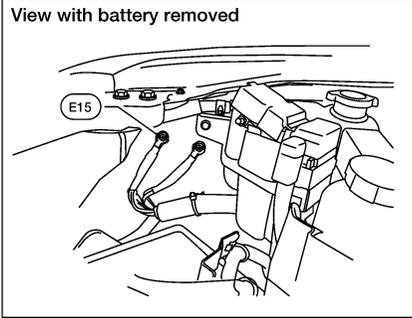


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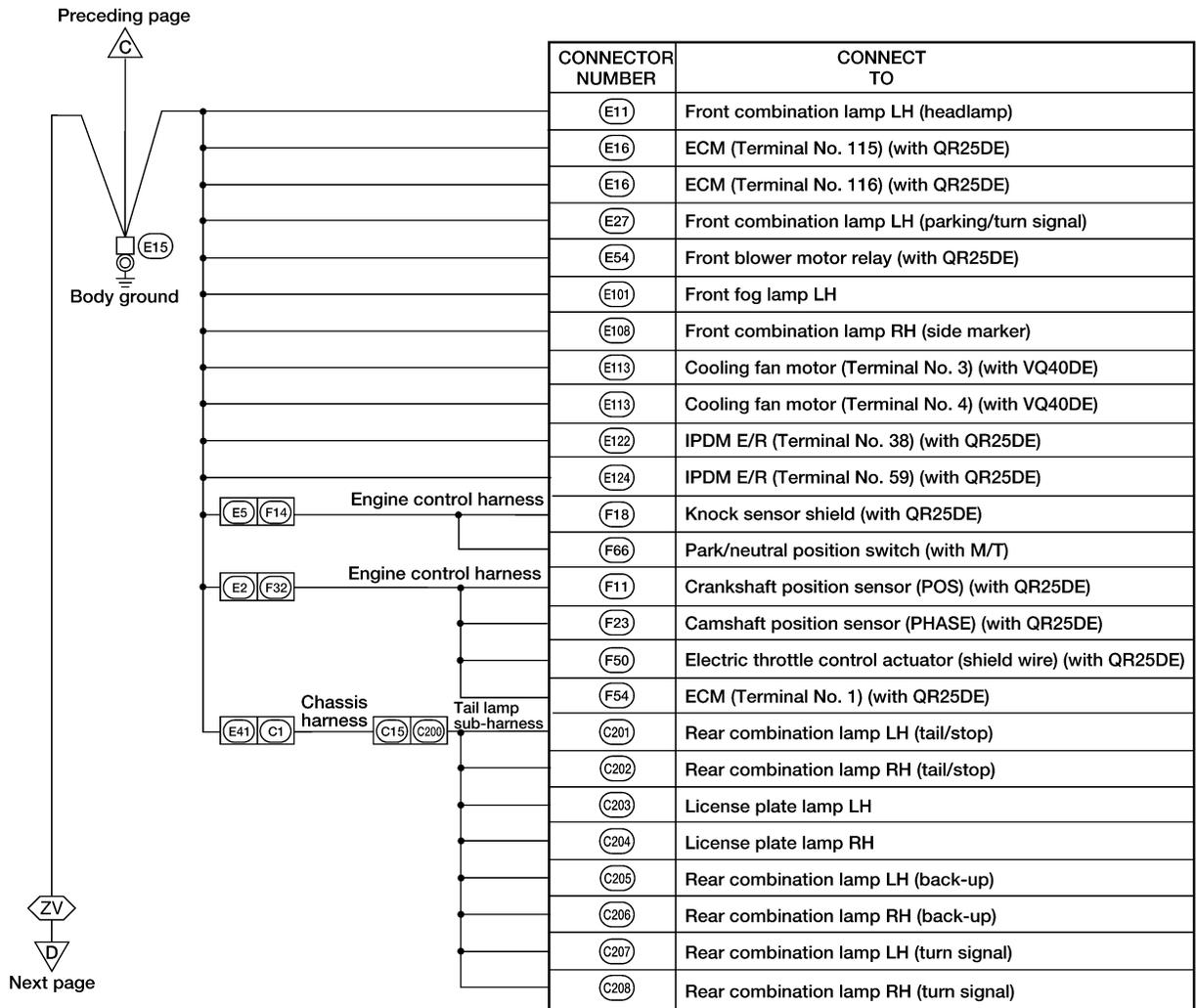
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# GROUND CIRCUIT



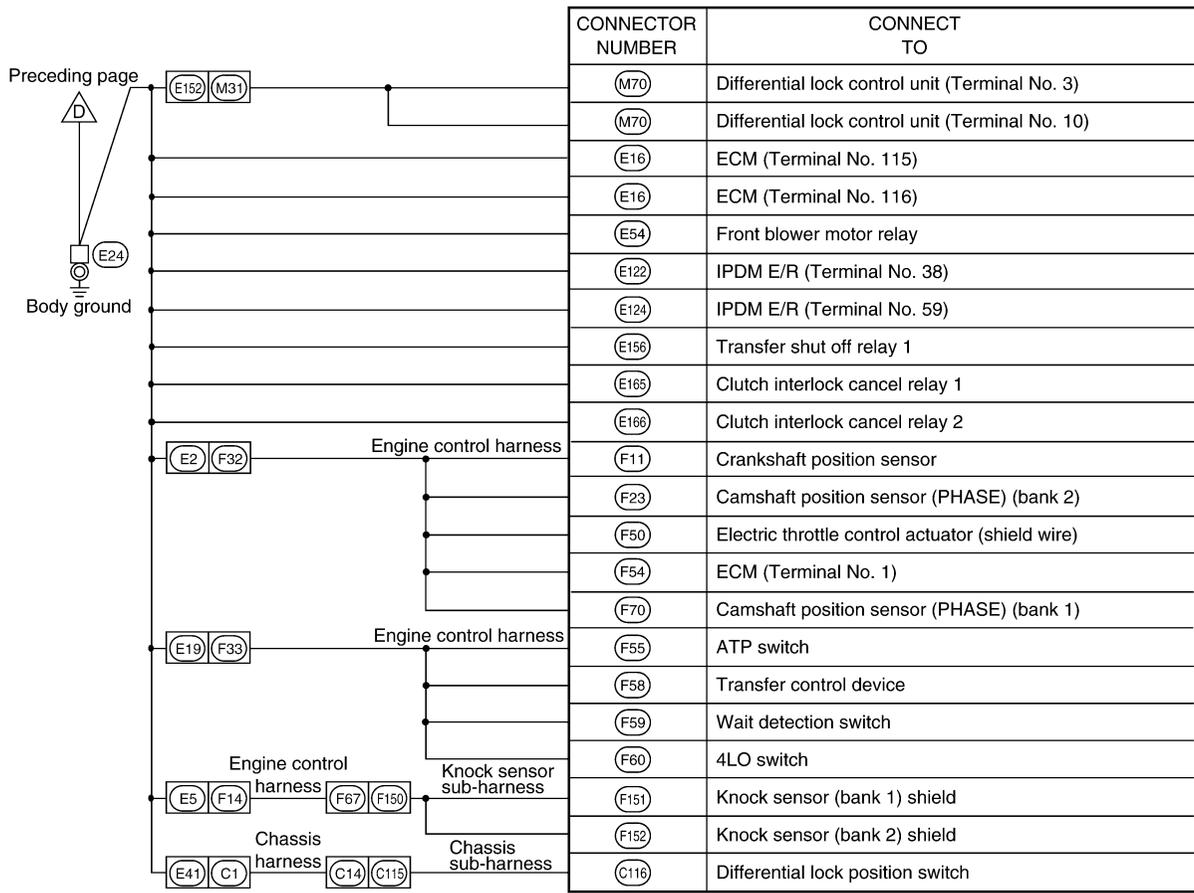
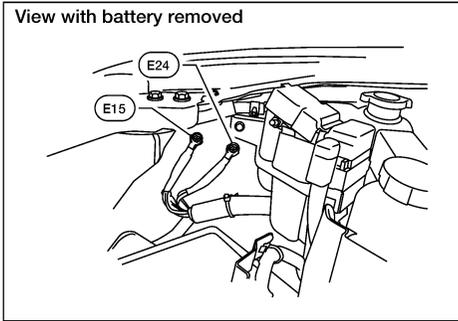
ZV : WITH VQ40DE



WKIA5155E

# GROUND CIRCUIT

View with battery removed

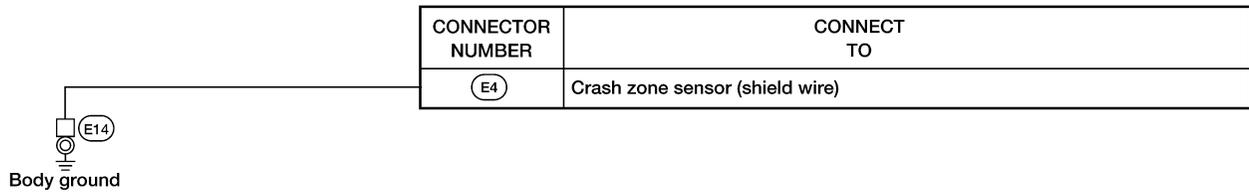
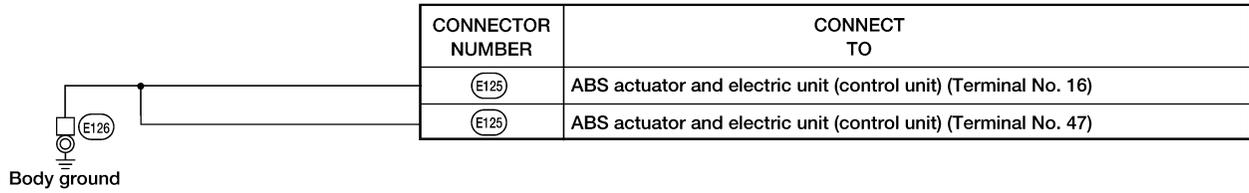
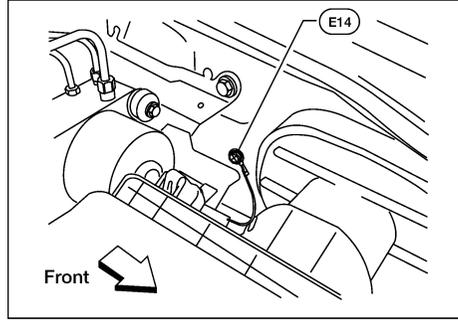
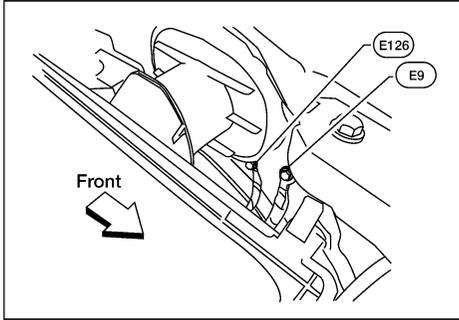


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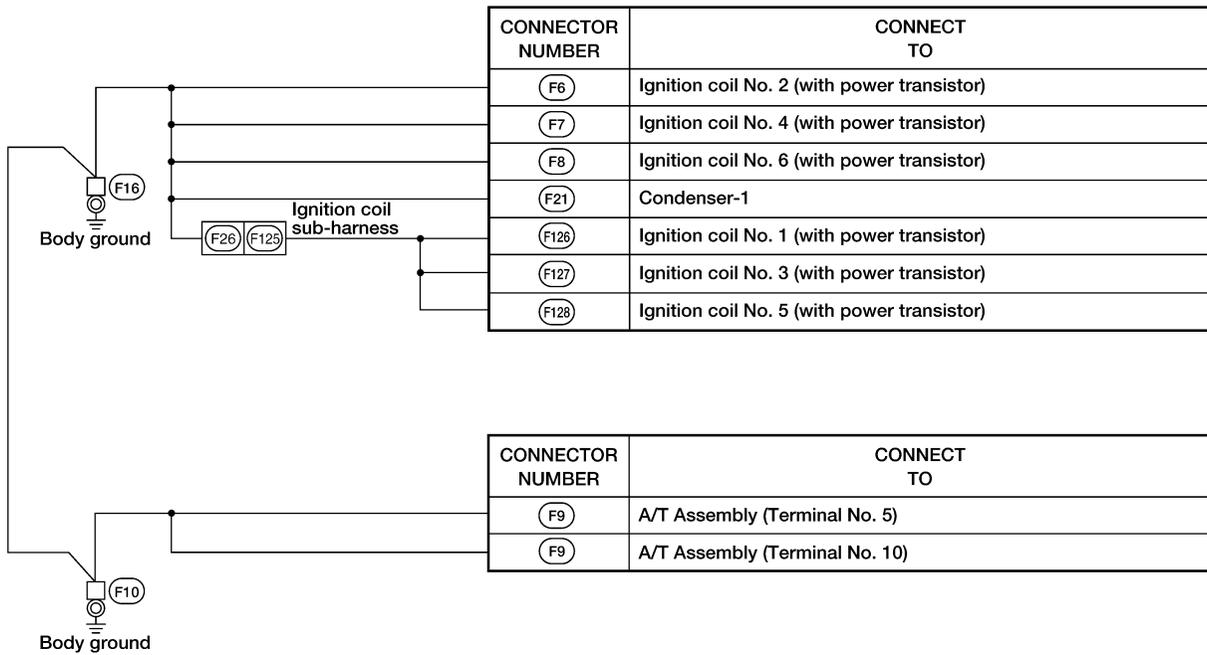
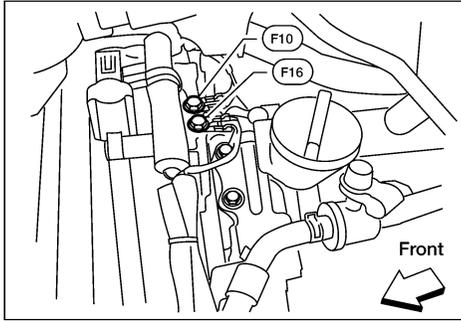
# GROUND CIRCUIT



WKIA3571E

# GROUND CIRCUIT

## ENGINE CONTROL HARNESS (VQ40DE MODELS)



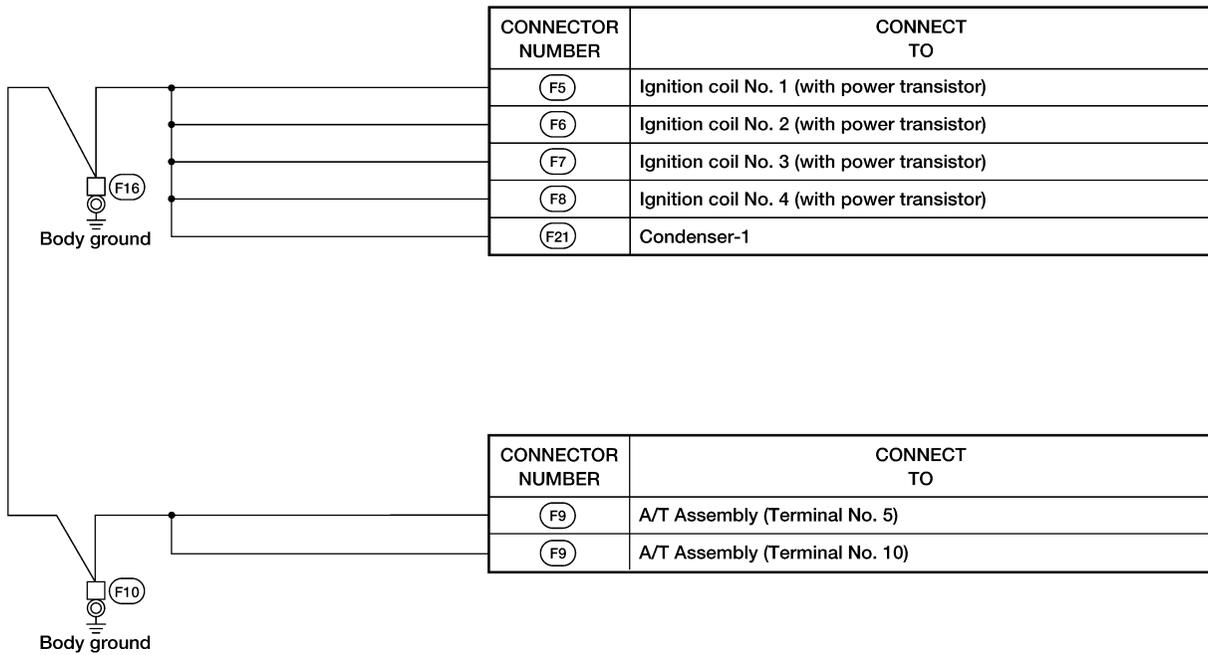
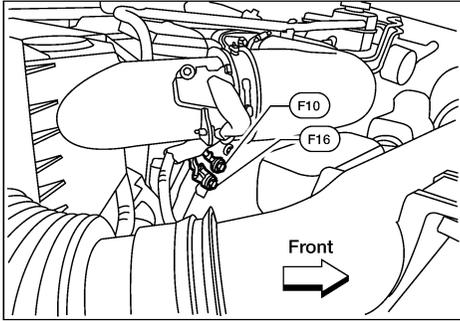
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WKIA4055E

# GROUND CIRCUIT

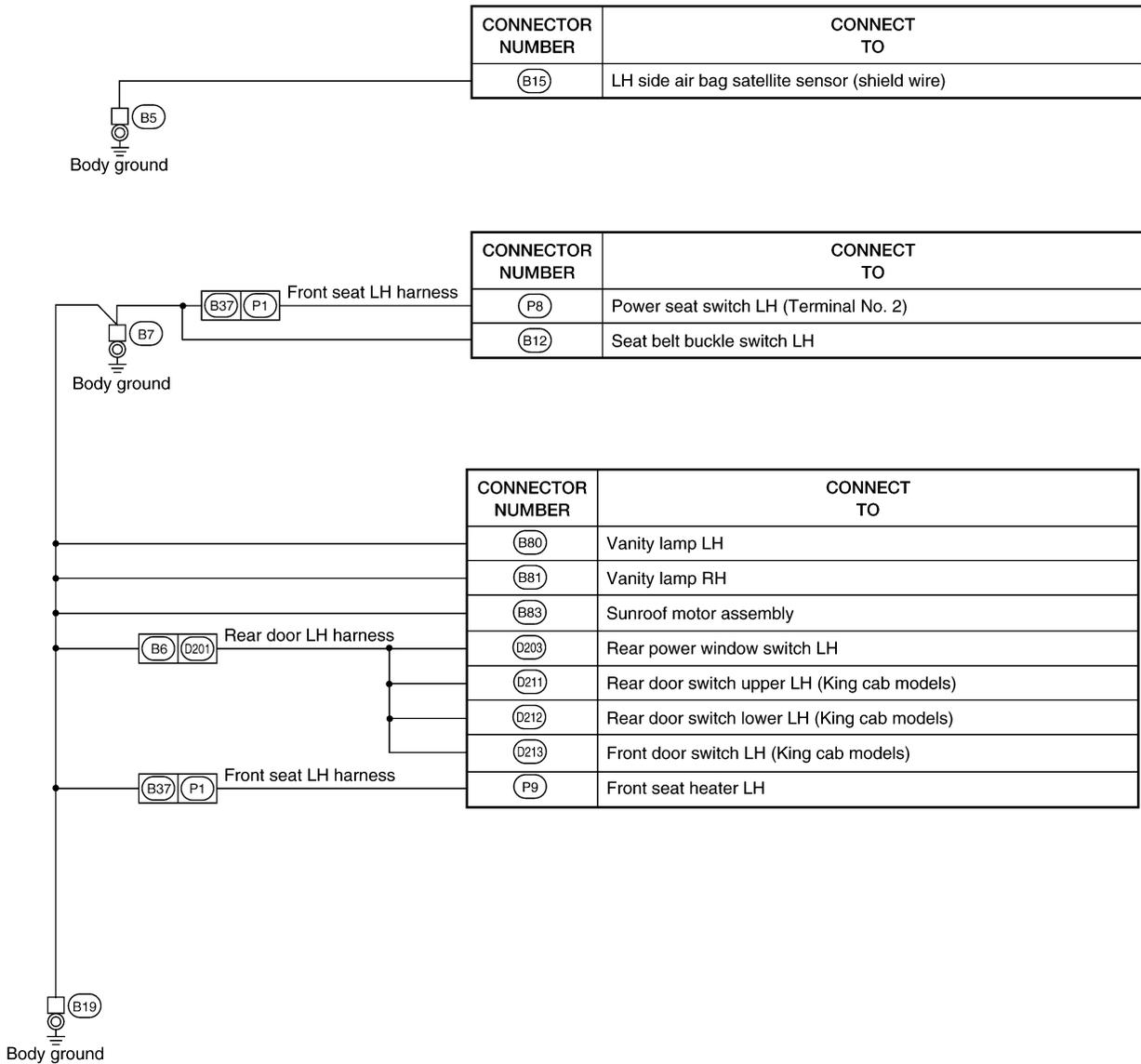
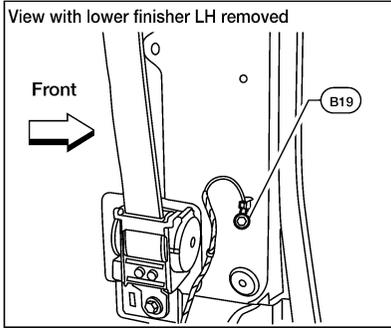
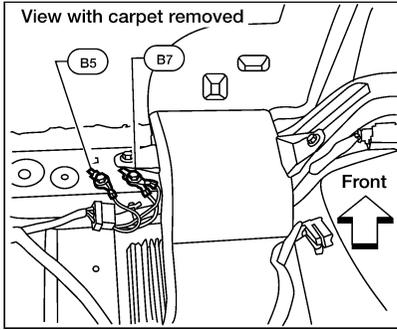
## ENGINE CONTROL HARNESS (QR25DE MODELS)



WKIA4056E

# GROUND CIRCUIT

## BODY HARNESS



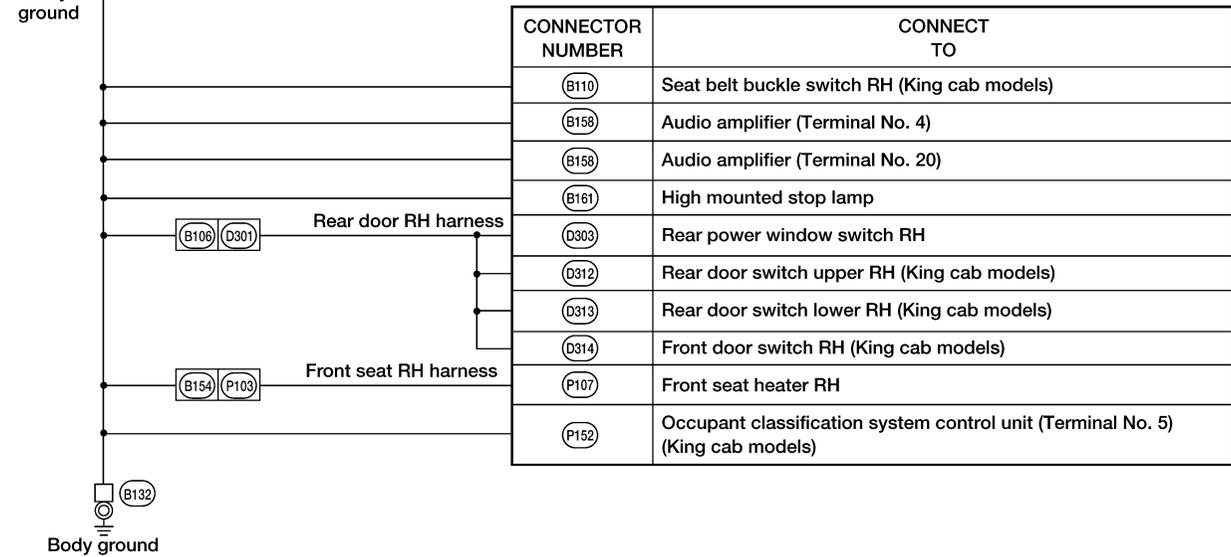
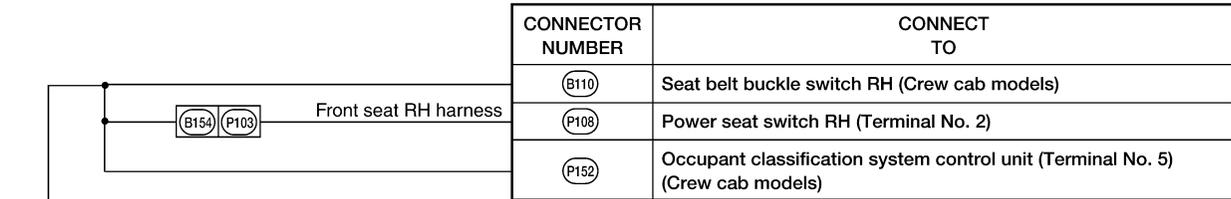
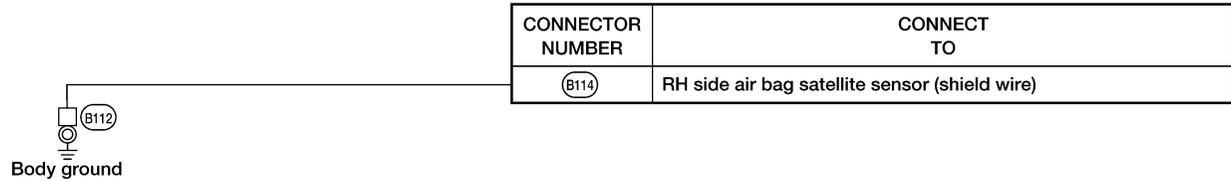
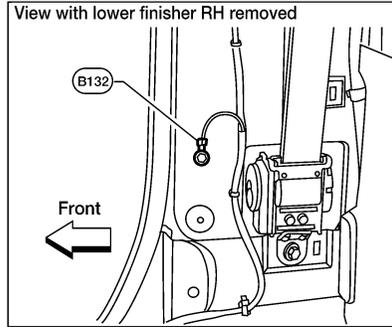
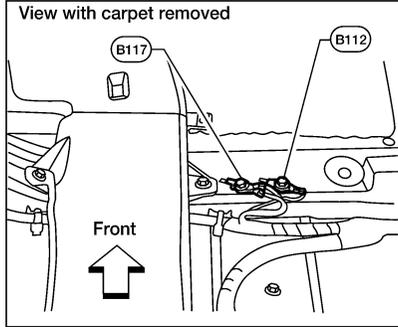
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WKIA4057E

# GROUND CIRCUIT

## BODY NO. 2 HARNESS



WKIA4058E

# HARNESS

PF24010

EKS00E0S

## HARNESS

### Harness Layout

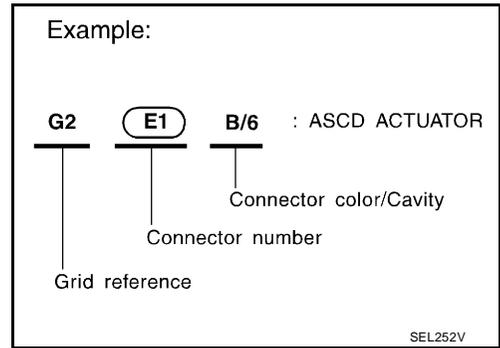
#### HOW TO READ HARNESS LAYOUT

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

- Main Harness
- Engine Room Harness RH View (Engine Compartment)
- Engine Room Harness (Passenger Compartment)
- Engine Room Harness LH View (Engine Compartment)
- Engine Control Harness (QR25DE Models)
- Engine Control Harness (VQ40DE Models)
- Chassis Harness
- Body Harness (King Cab Models)
- Body Harness (Crew Cab Models)
- Body No. 2 Harness (King Cab Models)
- Body No. 2 Harness (Crew Cab Models)
- Room Lamp 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 to the connector.



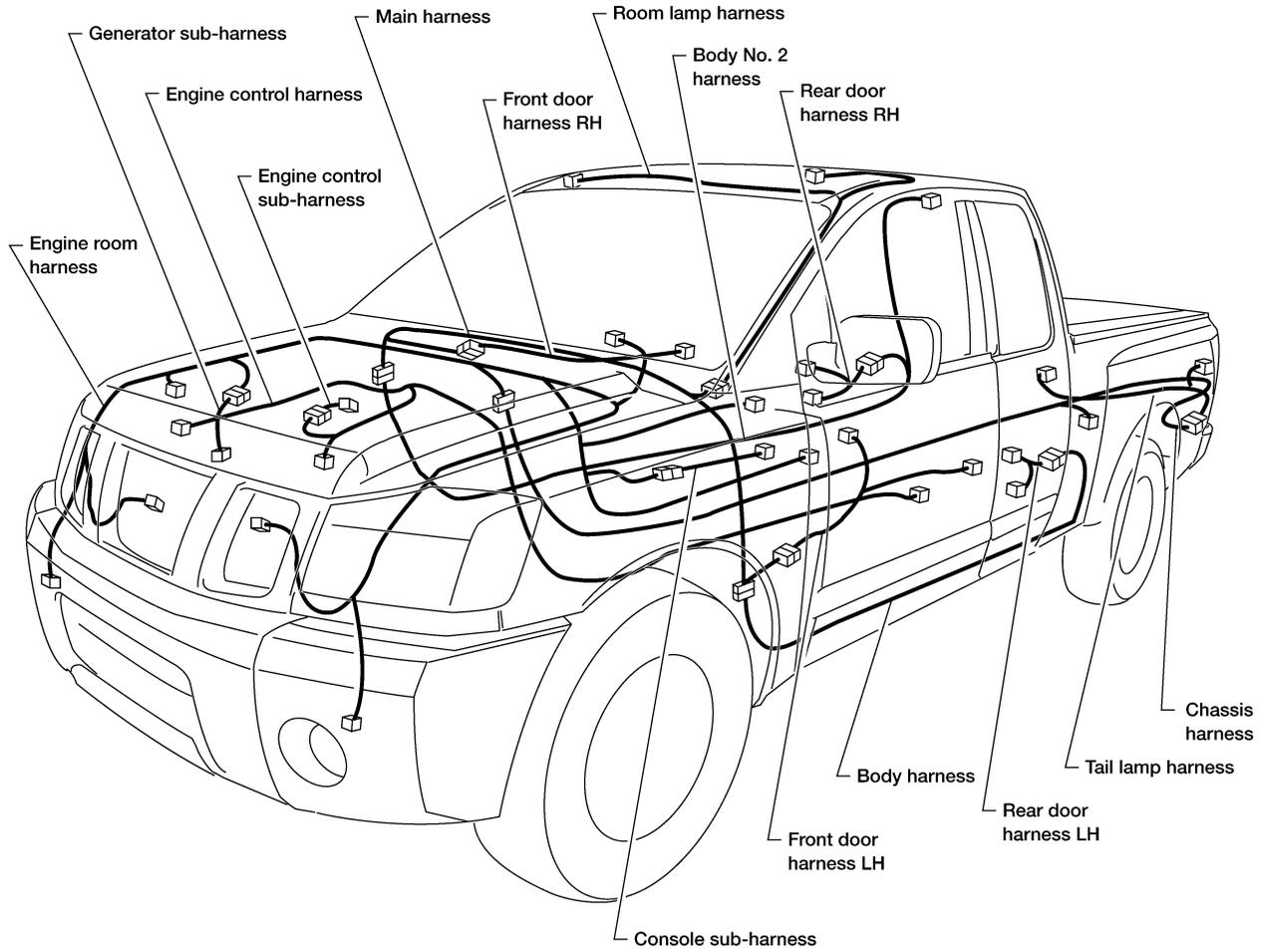
#### CONNECTOR SYMBOL

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

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
● Cavity: Less than 4				
● Cavity: From 5 to 8				
● Cavity: 9 or more				
● Ground terminal etc.	—			

# HARNESS

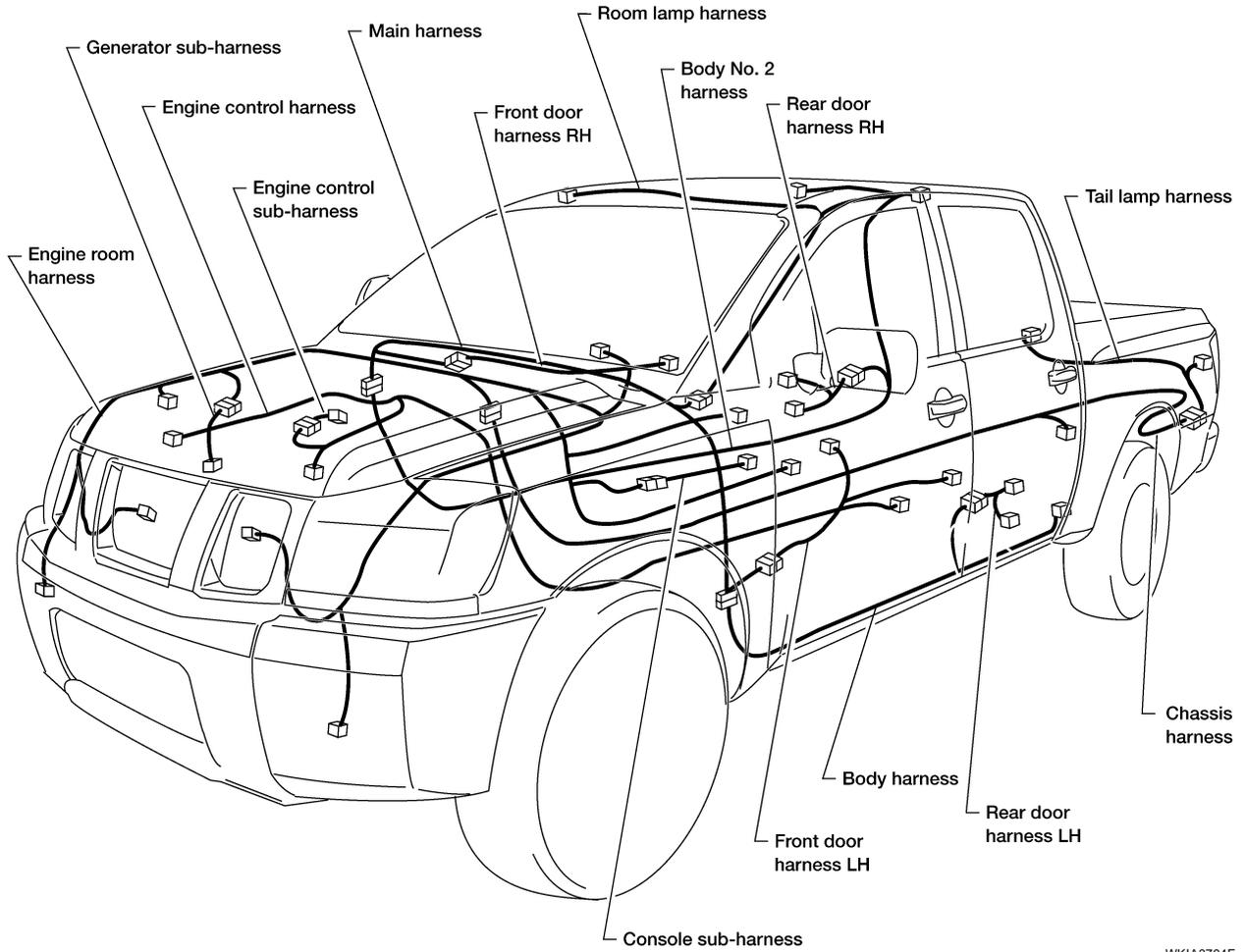
## OUTLINE (KING CAB MODELS)



WKIA3793E

# HARNESS

## OUTLINE (CREW CAB MODELS)



WKIA3794E

A  
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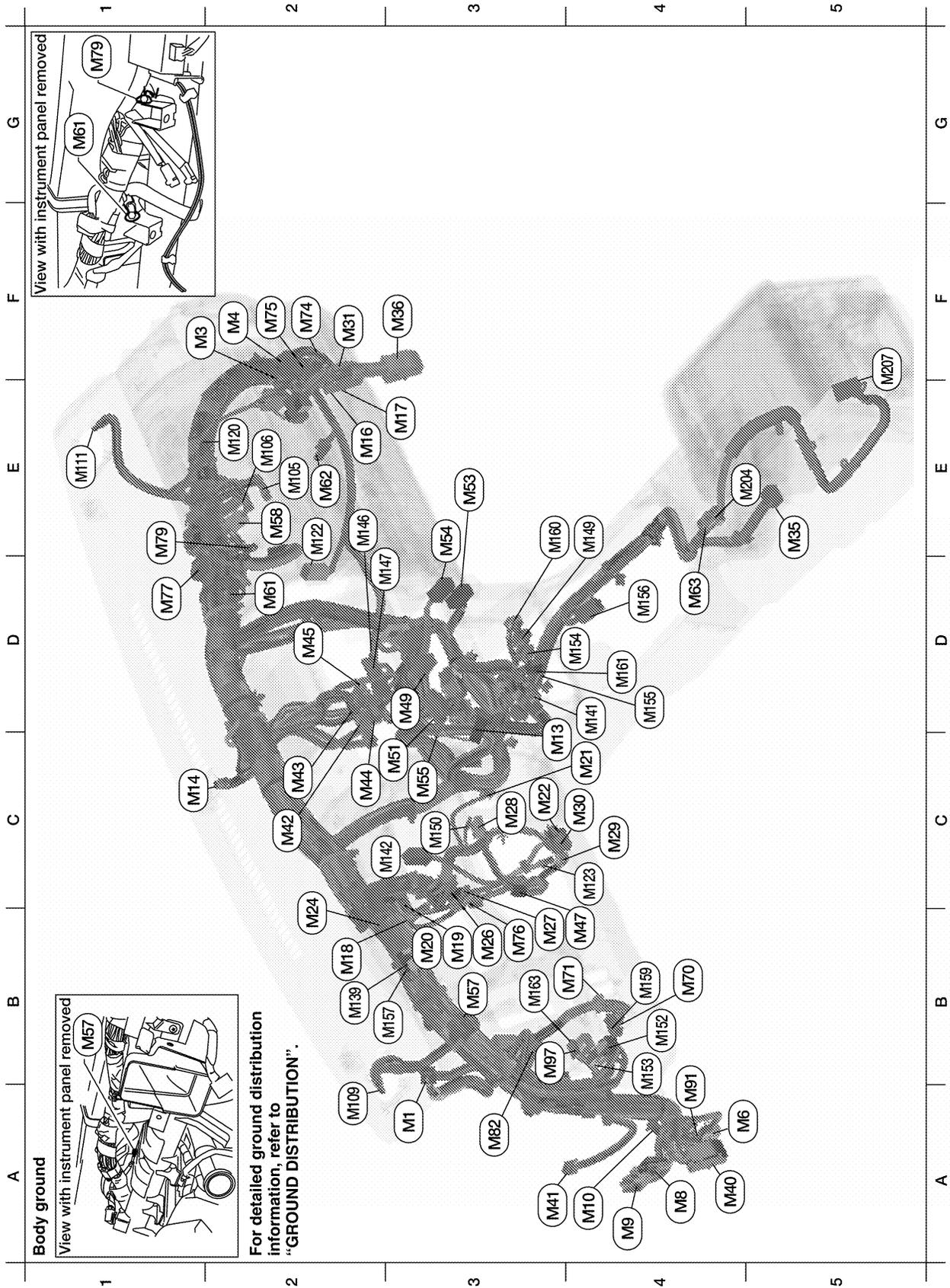
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M

# HARNESS

## MAIN HARNESS



WKIA4059E

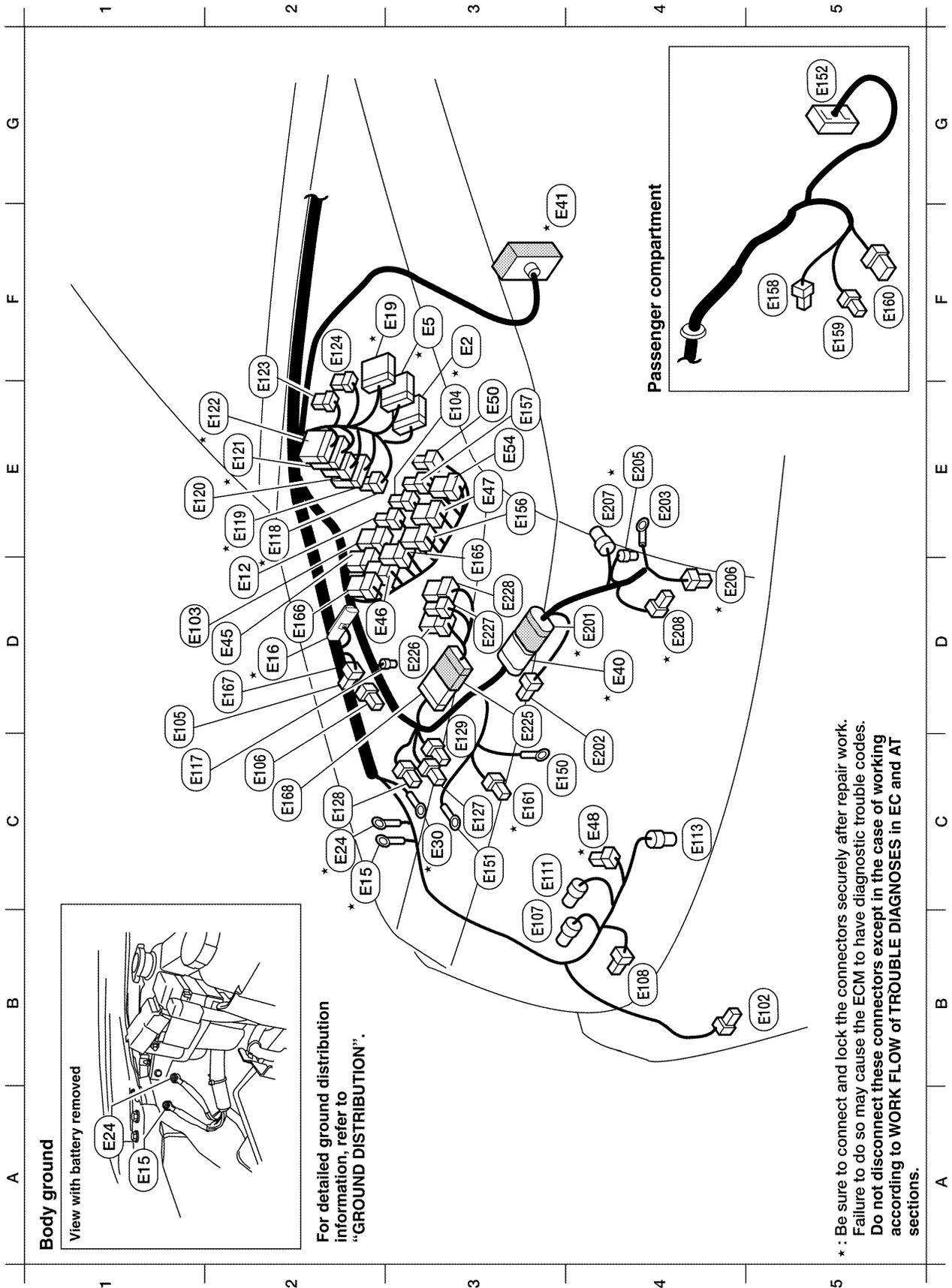
# HARNESS

A3	M1	W/12	: To R1	B4	M71	W/6	: Cargo lamp switch
F1	M3	W/8	: Fuse block (J/B)	F2	M74	W/16	: To D201
F2	M4	W/16	: Fuse block (J/B)	F2	M75	W/12	: To D101
A5	M6	W/6	: To E10	B3	M76	W/6	: Electric brake (pre-wiring)
A4	M8	W/16	: To D2	D1	M77	Y/4	: Front passenger air bag module (service replacement)
A4	M9	W/24	: To D1	E1	M79	—	: Body ground
A4	M10	Y/4	: To E29	A3	M82	W/2	: Circuit breaker 2
C3	M13	W/3	: Front passenger air bag OFF indicator	A4	M91	W/16	: To E26
C1	M14	B/4	: Optical sensor	B3	M97	L/4	: Heated seat relay
E2	M16	W/12	: To B162	E2	M105	Y/2	: Front passenger air bag module
E3	M17	W/16	: To B163	E2	M106	O/2	: Front passenger air bag module
B2	M18	W/40	: BCM (body control module)	A2	M109	BR/2	: Front tweeter LH
B3	M19	W/15	: BCM (body control module)	E1	M111	BR/2	: Front tweeter RH
B3	M20	B/15	: BCM (body control module)	E2	M120	W/4	: Remote keyless entry receiver
C4	M21	W/4	: NATS antenna amp.	E2	M122	B/4	: Front blower motor resistor
C3	M22	W/16	: Data link connector	C4	M123	W/2	: Tire pressure warning check connector
B2	M24	W/40	: Combination meter	B2	M139	B/2	: Diode-6
B3	M26	W/6	: Ignition switch	D4	M141	GR/8	: 4WD shift switch
B3	M27	W/2	: Key switch	C3	M142	B/6	: Mode door motor
C3	M28	W/16	: Combination switch	E2	M146	W/2	: Intake sensor
C4	M29	Y/6	: Combination switch (spiral cable)	D2	M147	B/6	: Air mix door motor front
C4	M30	GR/8	: Combination switch (spiral cable)	E4	M149	W/6	: Differential lock mode switch
F2	M31	SMJ	: To E152	C3	M150	B/2	: Ignition keyhole illumination
E5	M35	Y/28	: Air bag diagnosis sensor unit	B4	M152	W/26	: Transfer case control unit
F3	M36	SMJ	: To B149	B4	M153	W/24	: Transfer case control unit
A4	M40	SMJ	: To B69	D4	M154	GR/6	: VDC off switch
A3	M41	W/16	: Satellite radio tuner (pre-wiring)	C4	M155	W/8	: HDC switch
C2	M42	W/12	: Audio unit	D4	M156	W/10	: A/T device
C2	M43	W/10	: Audio unit	B2	M157	W/2	: Diode-5
C2	M44	W/6	: Audio unit	B4	M159	W/16	: Door mirror remote control switch
D2	M45	W/16	: Audio unit	E3	M160	BR/6	: Front heated seat switch RH
B4	M47	W/8	: Steering angle sensor	D4	M161	W/6	: Front heated seat switch LH
D3	M49	B/26	: Front air control	B3	M163	W/8	: Clutch interlock cancel switch
C3	M51	W/8	: Front blower switch	Console sub-harness			
E3	M53	B/2	: Lower front power socket	E5	M204	W/6	: To M63
E3	M54	GR/2	: Upper front power socket	F5	M207	B/2	: Console power socket
C3	M55	W/4	: Hazard switch	*: 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 DIAGNOSIS in EC and AT sections.			
B3	M57	—	: Body ground				
E2	M58	B6	: Intake door motor				
D2	M61	—	: Body ground				
E2	M62	B/2	: Front blower motor				
E3	M63	W/6	: To M204				
B4	M70	W/26	: Differential lock control unit				

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# HARNESS

## ENGINE ROOM HARNESS (RH VIEW) Engine Compartment



Refer to [PG-50, "ENGINE ROOM HARNESS \(LH VIEW\)"](#) for continuation of engine room harness.

WKIA4060E

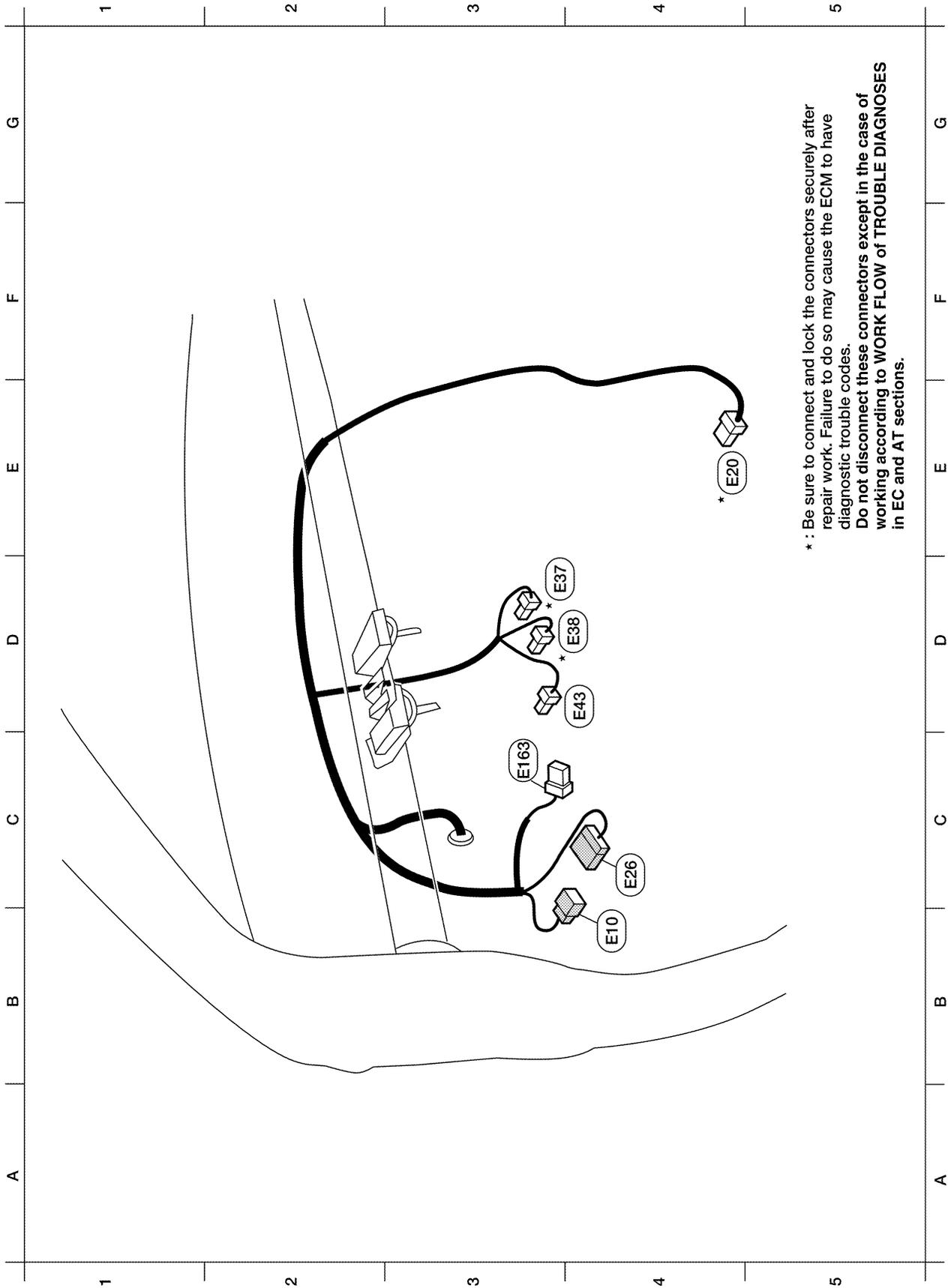
# HARNESS

F3	*E2	W/16	: To F32	C3	E127	—	: Fusible link box (battery)	A	
F3	*E5	W/24	: To F14	C2	E128	GR/2	: Fusible link box (battery)	A	
D2	E12	L/5	: Stop lamp relay	C3	E129	BR/2	: Fusible link box (battery)	B	
C2	*E15	—	: Body ground	C3	E150	—	: Battery ground	B	
D2	*E16	B/40	: ECM	C3	E151	—	: Negative battery cable	C	
F2	*E19	W/16	: To F33	G5	E152	SMJ	: To M31	C	
C2	*E24	—	: Body ground	E3	E156	L/4	: Transfer shut off relay 1	D	
C3	*E30	—	: Fusible link box (battery)	E3	E157	L/4	: Transfer shut off relay 2	D	
D4	*E40	GR/9	: To E201	F5	E158	B/1	: Fuse block (J/B)	E	
F3	*E41	SMJ	: To C1 (located RH rear of engine compartment)	F5	E159	B/2	: Fuse block (J/B)	E	
D2	E45	BR/6	: Back-up lamp relay (with A/T)	F5	E160	W/8	: Fuse block (J/B)	F	
D3	E46	B/5	: Transfer relay 1	C3	*E161	B/3	: Battery current sensor	F	
E3	E47	B/5	: Transfer relay 2	D3	E165	B/5	: Clutch interlock cancel relay 1	G	
C4	*E48	B/3	: Refrigerant pressure sensor	D2	E166	BR/6	: Clutch interlock cancel relay 2	G	
E3	E50	L/4	: Cargo lamp relay	D2	E167	B/2	: Diode-3	H	
E3	E54	BR/6	: Front blower motor relay	C2	E168	W/12	: To E225	H	
B5	E102	B/2	: Front fog lamp RH	Generator sub-harness					I
D1	E103	B/5	: Daytime light relay 1	D4	*E201	GR/9	: To E40	I	
E3	E104	L/4	: Daytime light relay 2	C4	E202	B/1	: To fuse and fusible link box	J	
D1	E105	B/2	: Washer motor	E4	E203	—	: Body ground	J	
C2	E106	BR/2	: Washer fluid level switch	E4	*E205	B/3	: Generator	K	
B3	E107	B/3	: Front combination lamp RH (head-lamp)	D4	*E206	B/1	: Generator	K	
B4	E108	GR/2	: Front combination lamp RH (side marker)	E4	E207	GR/1	: Starter motor	L	
C3	E111	GR/3	: Front combination lamp RH (parking/turn signal)	D4	*E208	B/3	: Oil pressure sensor	L	
C4	E113	GR/4	: Cooling fan motor	Trailer tow harness					M
C1	E117	GR/2	: Front wheel sensor RH	C3	E225	W/12	:To E168	M	
E2	*E118	B/2	: IPDM E/R (intelligent power distribution module engine room)	D3	E226	L/6	: Back-up lamp relay (with M/T)	M	
E2	*E119	W/16	: IPDM E/R (intelligent power distribution module engine room)	D3	E227	L/4	: Trailer tow relay 1	M	
E1	E120	W/6	: IPDM E/R (intelligent power distribution module engine room)	D3	E228	BR/6	: Trailer tow relay 2	M	
E2	*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)						
E2	E123	BR/8	: IPDM E/R (intelligent power distribution module engine room)						
F2	*E124	B/6	: IPDM E/R (intelligent power distribution module engine room)						

\*: 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 DIAGNOSIS in EC and AT sections.

# HARNESS

## Passenger Compartment



LKIA0658E

# HARNESS

B4	E10	W/6	: To M6				
E4	*E20	B/6	: Accelerator pedal position (APP) sensor				
C4	E26	W/16	: To M91				
D4	*E37	BR/2	: ASCD brake switch				
D4	E38	W/4	: Stop lamp switch (with A/T)				
D4	E38	B/2	: Stop lamp switch (with M/T)				
D4	E43	L/2	: ASCD clutch switch				
C3	E163	L/2	: Clutch interlock switch				

\*: 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 DIAGNOSIS in EC and AT sections.

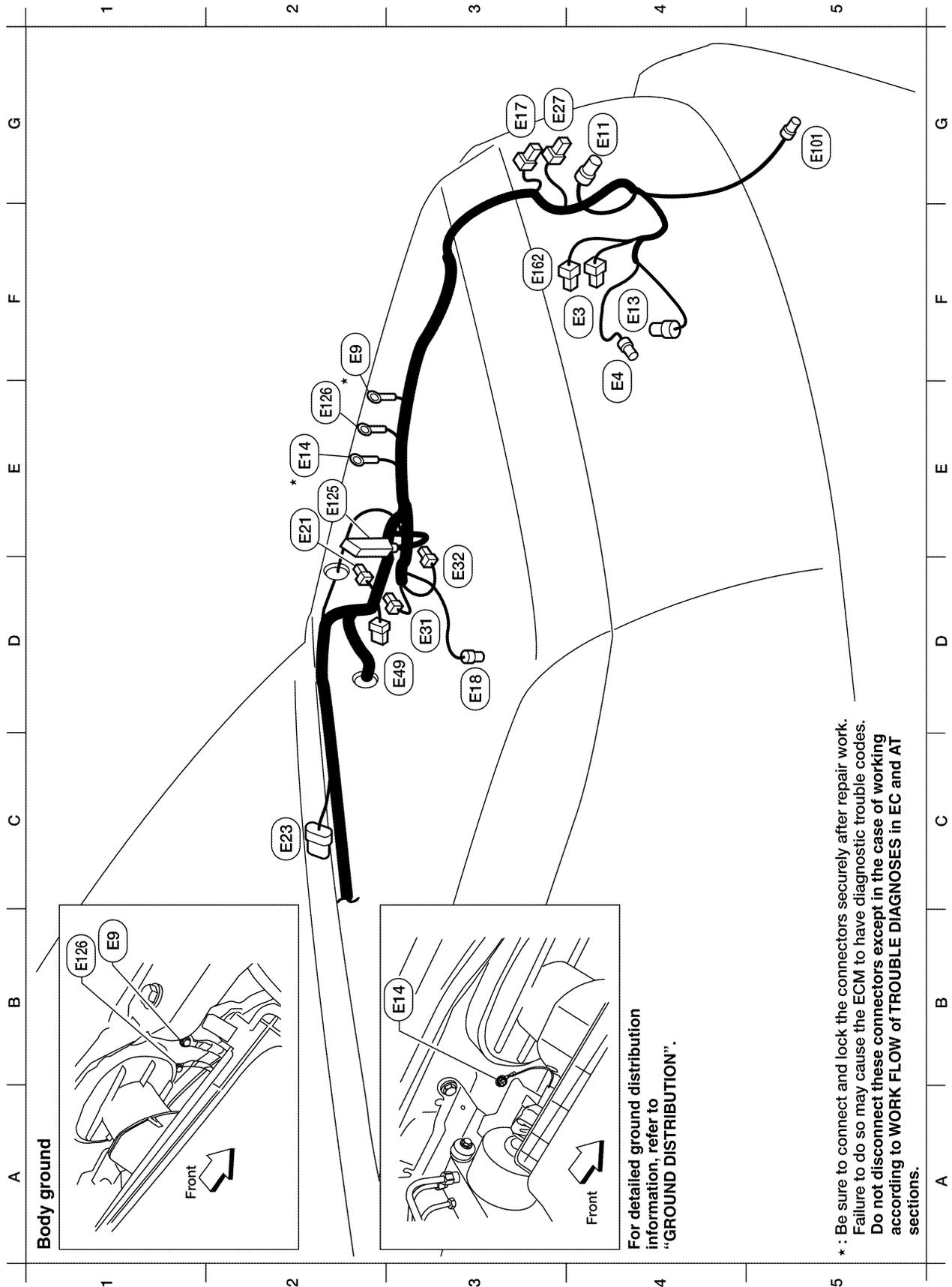
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# HARNESS

## ENGINE ROOM HARNESS (LH VIEW)

### Engine Compartment



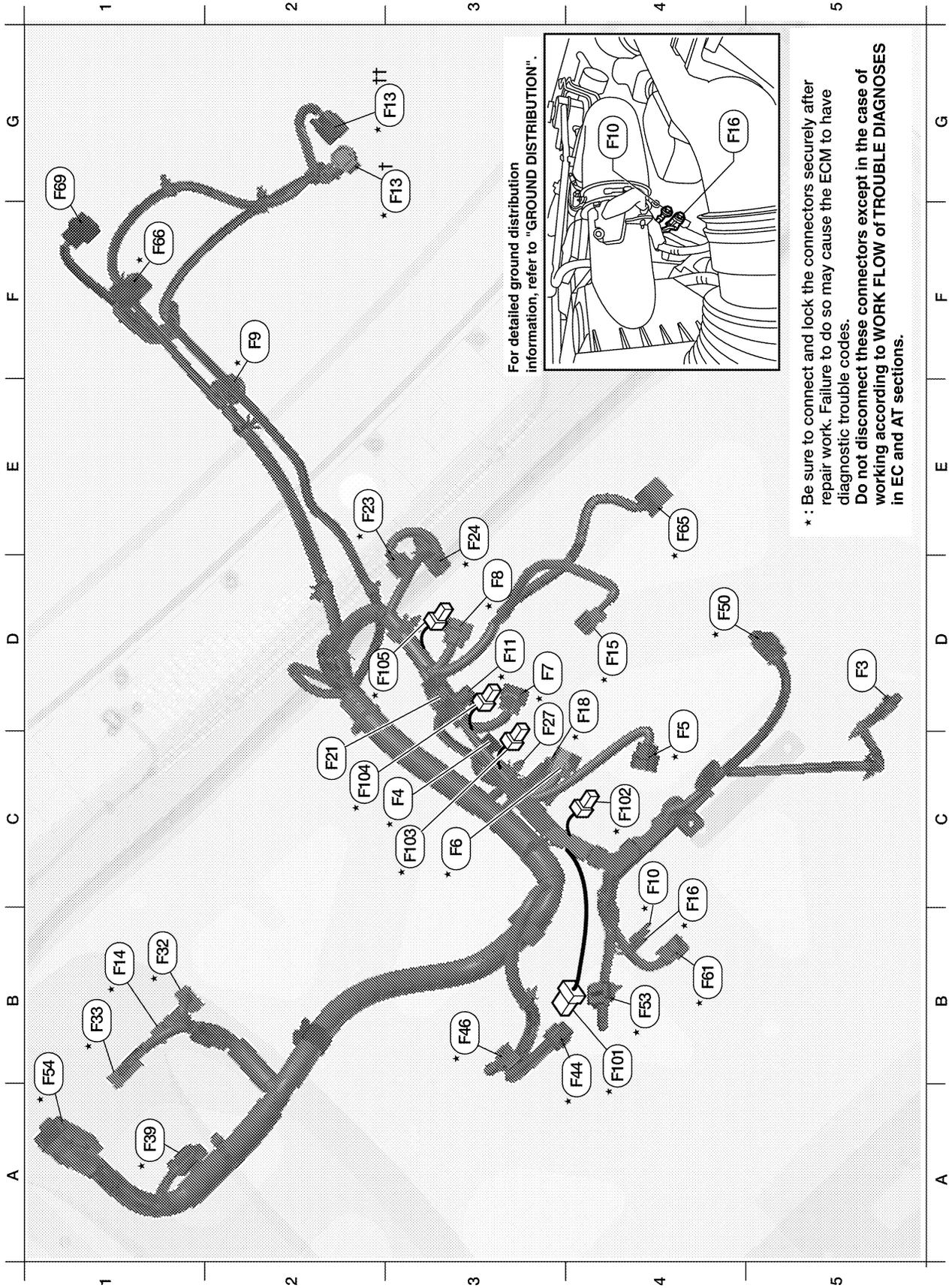
Refer to [PG-46, "ENGINE ROOM HARNESS \(RH VIEW\)"](#) for continuation of engine room harness.

WKIA4061E



# HARNESS

## ENGINE CONTROL HARNESS (QR25DE MODELS)



WKIA4062E

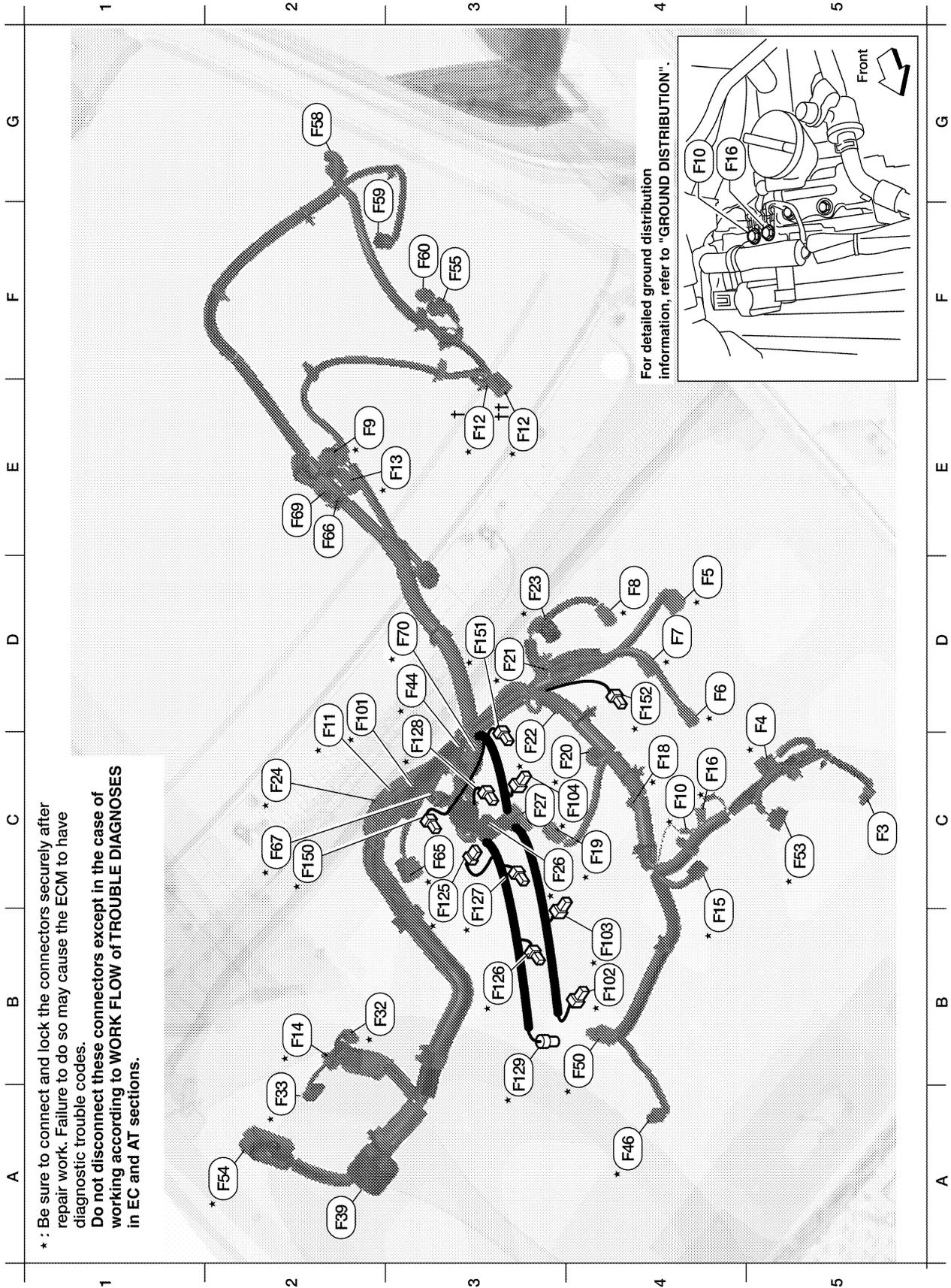
# HARNESSES

D5	F3	B/1	: A/C Compressor	B1	*F32	W/16	: To E2	A
C3	*F4	B/1	: Oil pressure switch	B1	*F33	GR/6	: To E19	B
C4	*F5	B/6	: Ignition coil No. 1 (with power transistor)	A1	*F39	—	: Fusible link box (battery)	C
C3	*F6	GR/3	: Ignition coil No. 2 (with power transistor)	B4	*F44	B/6	: To F101	D
D3	*F7	GR/3	: Ignition coil No. 3 (with power transistor)	B3	*F46	B/2	: Power steering pressure sensor	E
D3	*F8	GR/3	: Ignition coil No. 4 (with power transistor)	D4	*F50	GR/2	: Electric throttle control actuator	F
F2	*F9	G/10	: A/T assembly	B4	*F53	B/6	: Mass air flow sensor	G
C4	*F10	—	: Engine ground	B1	*F54	B/81	: ECM	H
D3	*F11	B/3	: Crankshaft position sensor (POS)	B4	*F61	G/2	: Intake valve timing control solenoid valve	I
G3	*F13†	G/4	: Heated oxygen sensor 2 (with A/T)	E4	*F65	L/4	: Air fuel ratio (A/F) sensor	J
G3	*F13††	L/4	: Heated oxygen sensor 2 (with M/T)	F1	*F66	B/2	: Park/neutral position switch (with M/T)	
B1	*F14	W/24	: To E5	G1	F69	W/2	: Back-up lamp switch (with M/T)	
D4	*F15	L/2	: EVAP canister purge volume control solenoid valve	Injector sub-harness				
C4	*F16	—	: Engine ground	B4	*F101	B/6	: To F44	
D4	*F18	C3	: Knock sensor	C4	*F102	GR/2	: Injector No. 1	
C2	*F21	GR/2	: Condenser-1	C3	*F103	GR/2	: Injector No. 2	
E2	*F23	B/3	: Camshaft position sensor (PHASE)	C2	*F104	GR/2	: Injector No. 3	
E3	*F24	GR/2	: Engine coolant temperature sensor	D2	*F105	GR/2	: Injector No. 4	
C3	F27	B/1	: Starter 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 DIAGNOSIS in EC and AT sections.

# HARNESS

## ENGINE CONTROL HARNESS (VQ40DE MODELS)



WKIA4063E

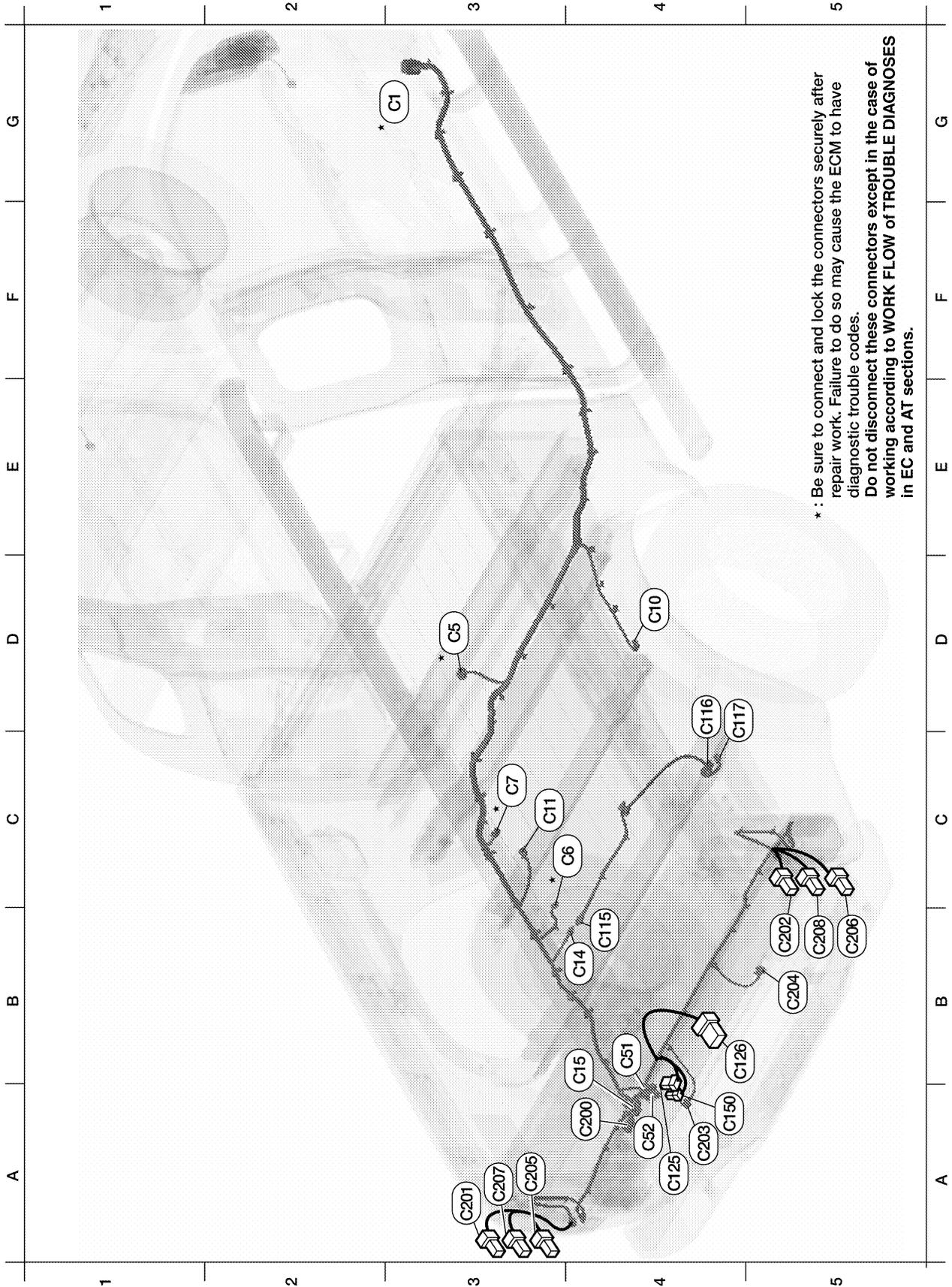
# HARNESSES

C5	F3	B/1	: A/C Compressor	A4	*F46	B/3	: Power steering pressure sensor	A
D5	*F4	G/2	: Intake valve timing control solenoid valve (bank 2)	B4	*F50	B/6	: Electric throttle control actuator	B
D4	*F5	B/6	: Air fuel ratio (A/F) sensor 1 (bank 2)	C5	*F53	B/6	: Mass air flow sensor	B
D4	*F6	GR/3	: Ignition coil No. 2 (with power transistor)	A2	*F54	B/81	: ECM	C
D4	*F7	GR/3	: Ignition coil No. 4 (with power transistor)	F3	F55	B/2	: ATP switch	C
D4	*F8	GR/3	: Ignition coil No. 6 (with power transistor)	G2	F58	B/8	: Transfer control device	D
E2	*F9	G/10	: A/T assembly	F2	F59	GR/2	: Wait detection switch	D
C4	*F10	—	: Engine ground	F3	F60	GR/2	: 4LO switch	E
D2	*F11	B/3	: Crankshaft position sensor (POS)	C3	*F65	B/6	: Air fuel ratio (A/F) sensor 1 (bank 1)	E
E3	†*F12	G/4	: Heated oxygen sensor 2 (bank 2) (with A/T)	E2	*F66	B/2	: Park/neutral position switch (with M/T)	F
E3	††*F12	G/4	: Heated oxygen sensor 2 (bank 2) (with M/T)	C2	*F67	L/4	: To F150	F
E3	*F13	L/4	: Heated oxygen sensor 2 (bank 1)	E2	F69	W/2	: Back-up lamp switch (with M/T)	G
B2	*F14	W/24	: To E5	D3	*F70	GR/3	: Camshaft position sensor (PHASE) (bank 1)	G
B4	*F15	L/2	: EVAP canister purge volume control solenoid valve	Injector sub-harness				H
C4	*F16	—	: Engine ground	D2	*F101	GR/4	: To F44	H
C4	*F18	GR/2	: Injector No. 2	B4	*F102	GR/2	: Injector No. 1	I
C4	*F19	B/2	: VIAS control solenoid valve	B4	*F103	GR/2	: Injector No. 3	I
C4	*F20	GR/2	: Injector No. 4	C4	*F104	GR/2	: Injector No. 5	J
D3	*F21	GR/2	: Condenser-1	Ignition coil sub-harness				J
C3	*F22	GR/2	: Injector No. 6	C3	*F125	G/8	: To F26	J
D3	*F23	B/3	: Camshaft position sensor (PHASE) (bank 2)	B3	*F126	GR/3	: Ignition coil No. 1 (with power transistor)	PG
C2	*F24	GR/2	: Engine coolant temperature sensor	B3	*F127	GR/3	: Ignition coil No. 3 (with power transistor)	PG
C3	*F26	G/8	: To F125	C3	*F128	GR/3	: Ignition coil No. 5 (with power transistor)	L
C3	*F27	B/1	: Starter motor	B3	*F129	G/2	: Intake valve timing control solenoid valve (bank 1)	L
B2	*F32	W/16	: To E2	Knock sensor sub-harness				M
A2	*F33	W/16	: To E19	C2	*F150	L/4	: To F67	M
A2	F39	—	: Fusible link box (battery)	D3	*F151	B/2	: Knock sensor (bank 1)	M
D3	*F44	GR/4	: To F101	D4	*F152	B/2	: Knock sensor (bank 2)	M

\*: 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 DIAGNOSIS in EC and AT sections.

# HARNESS

## CHASSIS HARNESS

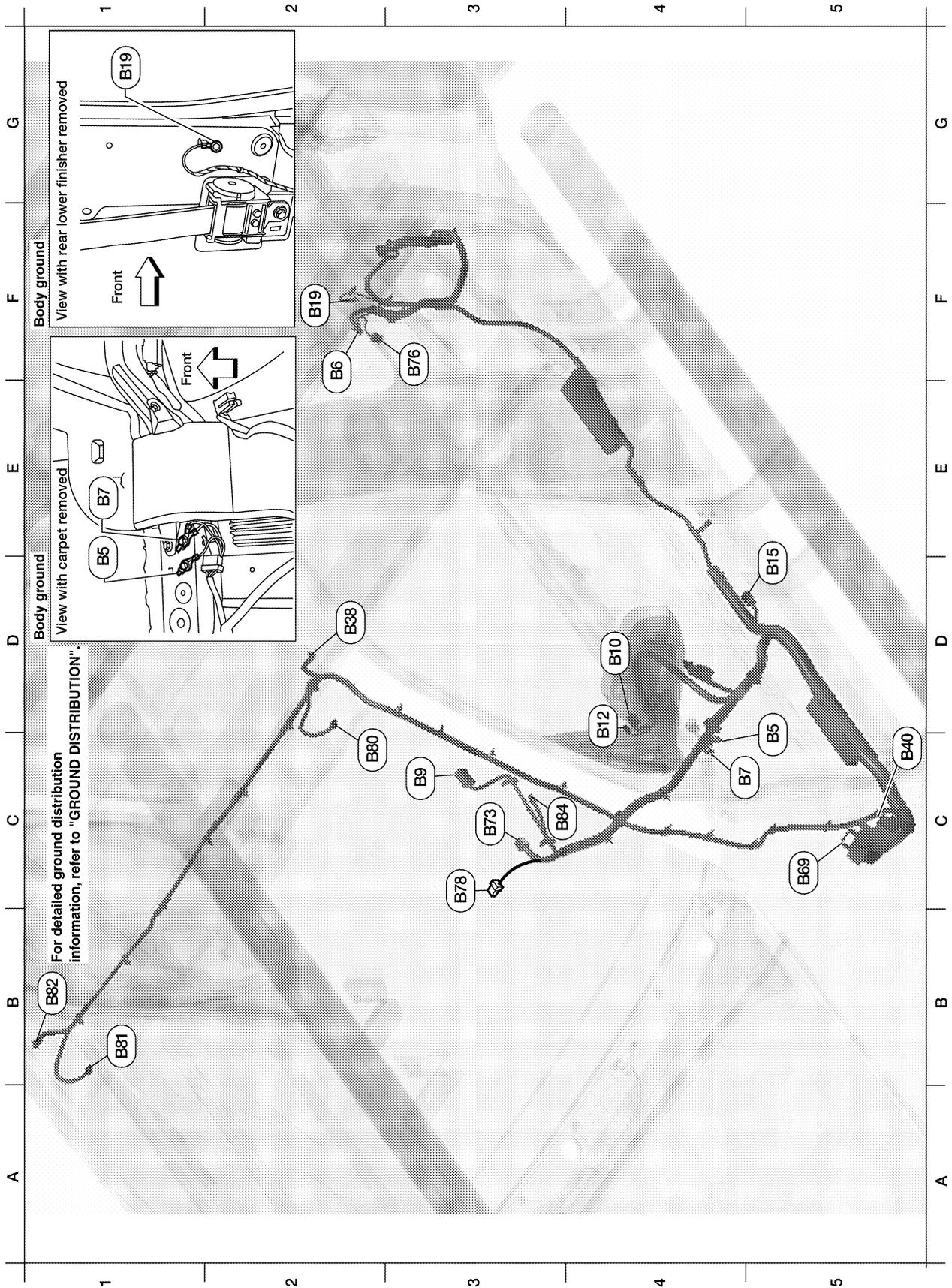


WKIA4064E



# HARNESS

## BODY HARNESS (KING CAB MODELS)



WKIA4065E

# HARNESSES

D5	B5	—	: Body ground (LH satellite sensor)					A
E2	B6	W/8	: To D201					
C4	B7	—	: Body ground					B
C3	B9	Y/12	: Air bag diagnosis sensor unit					
D4	B10	Y/2	: Front LH side air bag module					
D4	B12	W/3	: Seat belt buckle switch LH					C
E5	B15	Y/2	: LH side air bag (satellite) sensor					
F2	B19	—	: Body ground					D
D2	B38	Y/2	: LH side curtain air bag module					
C5	B40	W/8	: To E34					E
C5	B69	SMJ	: To M40					
C3	B73	B/6	: Yaw rate/side/decel G sensor					F
F3	B76	W/2	: Rear door speaker LH					
C3	B78	Y/2	: To B157					
C2	B80	W/2	: Vanity lamp LH					G
B1	B81	W/2	: Vanity lamp RH					
B1	B82	Y/2	: RH side curtain air bag module					H
C3	B84	B/1	: Parking brake switch					

A

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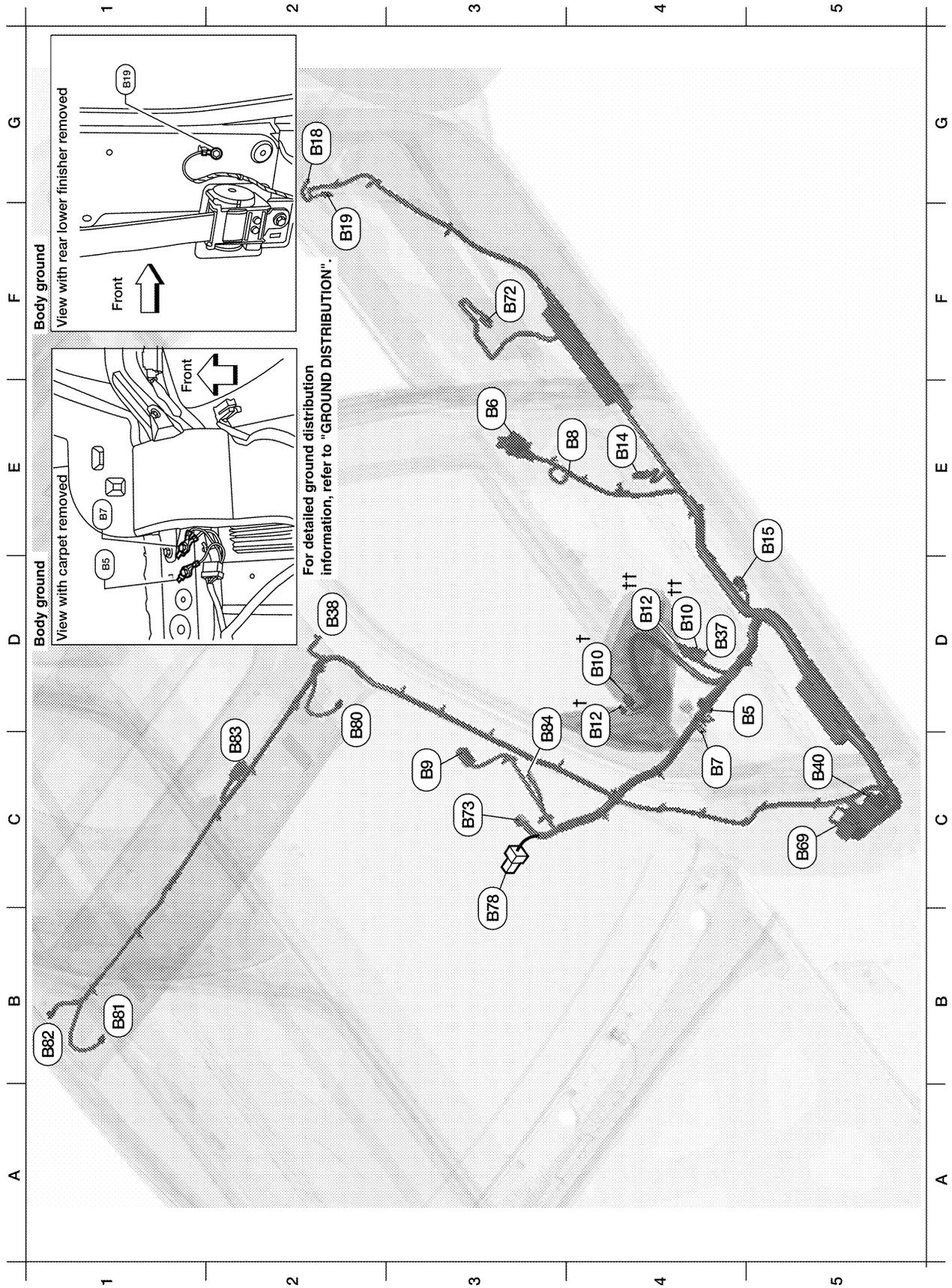
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# HARNESS

## BODY HARNESS (CREW CAB MODELS)



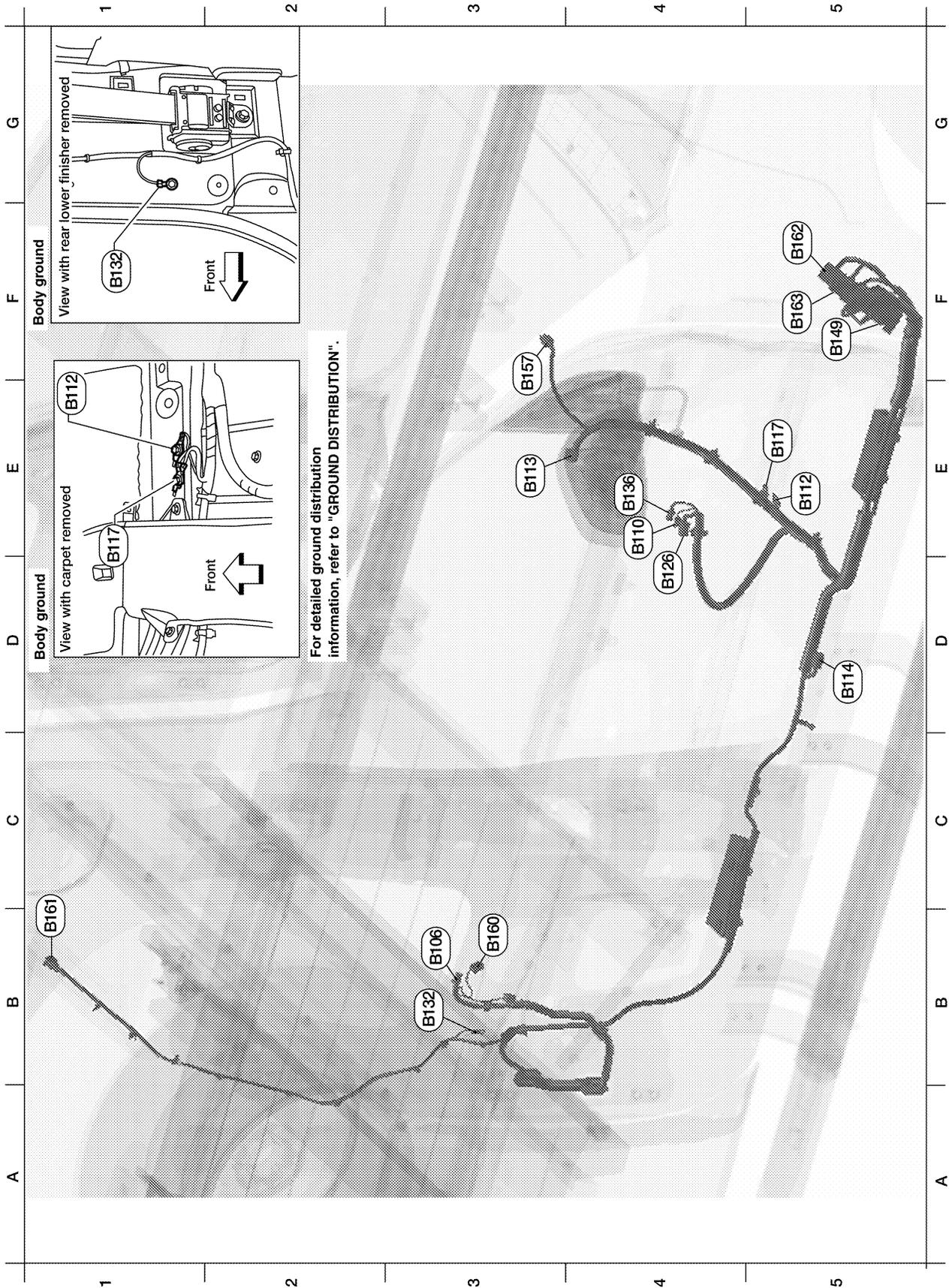
LKIA0651E

# HARNESSES

D4	B5	—	: Body ground (LH satellite sensor)					A
E3	B6	W/12	: To D201					B
C4	B7	—	: Body ground					C
E4	B8	W/3	: Front door switch LH					D
C3	B9	Y/12	: Air bag diagnosis sensor unit					E
D4	†B10	Y/2	: Front LH side air bag module (without power seat)					F
D4	††B10	Y/2	: Front LH side air bag module (with power seat)					G
D4	†B12	W/3	: Seat belt buckle switch LH (without power seat)					H
D4	††B12	W/3	: Seat belt buckle switch LH (with power seat)					I
E4	B14	Y/2	: Front LH seat belt pre-tensioner					J
E5	B15	Y/2	: LH side air bag (satellite) sensor					PG
G2	B18	W/3	: Rear door switch LH					L
F2	B19	—	: Body ground					M
D4	B37	W/16	: To P1					
D2	B38	Y/2	: LH side curtain air bag module					
C5	B40	W/8	: To E34					
C5	B69	SMJ	: To M40					
F3	B72	GR/4	: Subwoofer (with audio amplifier)					
C3	B73	B/6	: Yaw rate/side/decel G sensor					
C3	B78	Y/2	: To B157					
C2	B80	W/2	: Vanity lamp LH					
B1	B81	W/2	: Vanity lamp RH					
B1	B82	Y/2	: RH side curtain air bag module					
C2	B83	B/10	: Sunroof motor assembly					
C3	B84	B/1	: Parking brake switch					

# HARNESS

## BODY NO. 2 HARNESS (KING CAB MODELS)



LK1A0655E

# HARNESSES

C3	B106	W/8	: To D301					
E4	B110	W/3	: Seat belt buckle switch RH					
E5	B112	—	: Body ground (RH satellite sensor)					
E3	B113	Y/12	: Air bag diagnosis sensor unit					
D5	B114	Y/2	: RH side air bag (satellite) sensor					
E5	B117	—	: Body ground					
D4	B126	Y/2	: Front RH side air bag module					
B3	B132	—	: Body ground					
E4	B136	W/8	: To P151					
F5	B149	SMJ	: To M36					
F3	B157	Y/2	: To B78					
B3	B160	W/2	: Rear door speaker RH					
B1	B161	W/3	: High-mounted stop lamp					
F5	B162	W/12	: To M16					
F5	B163	W/16	: To M17					

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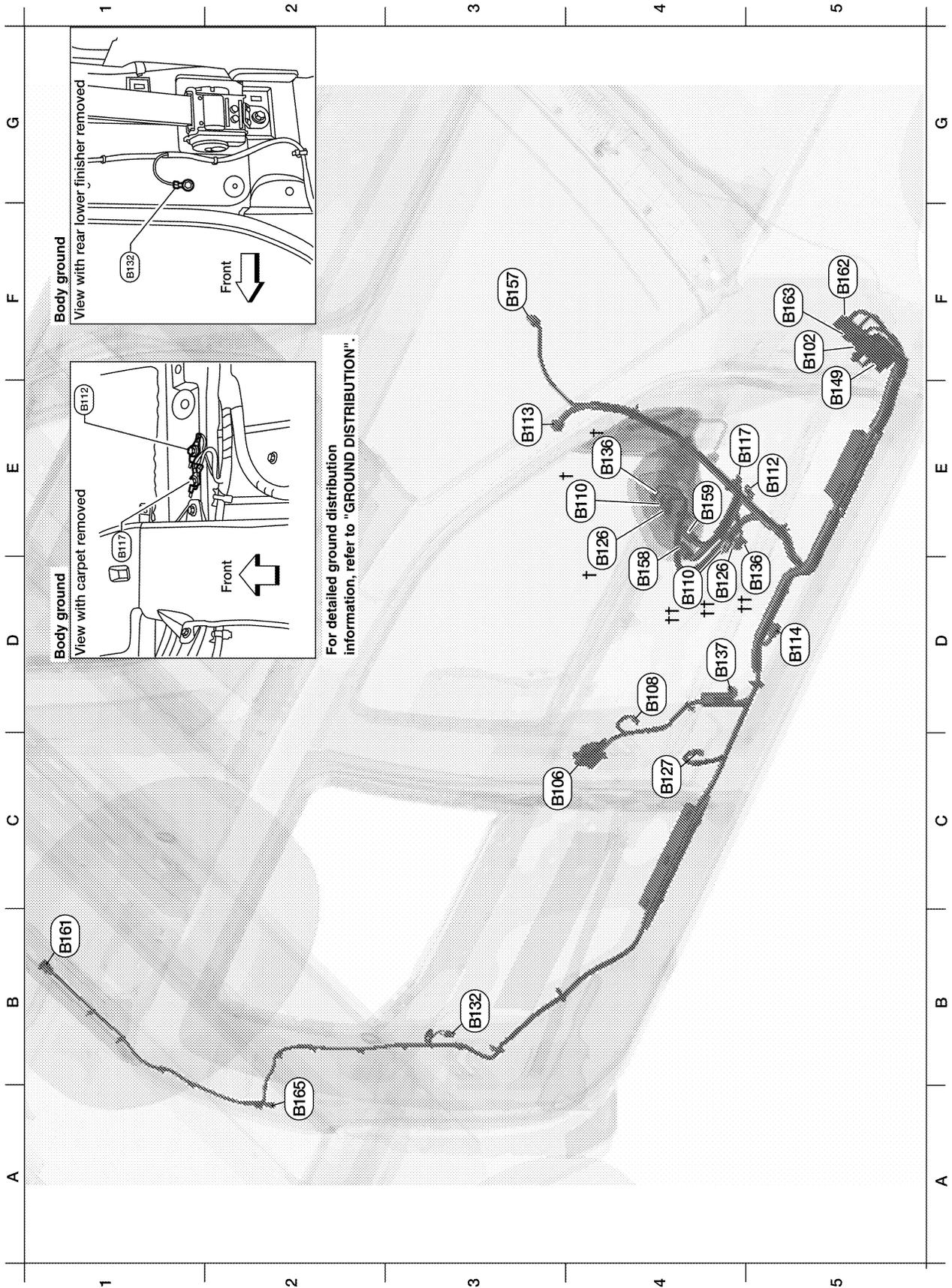
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# HARNESS

## BODY NO. 2 HARNESS (CREW CAB MODELS)



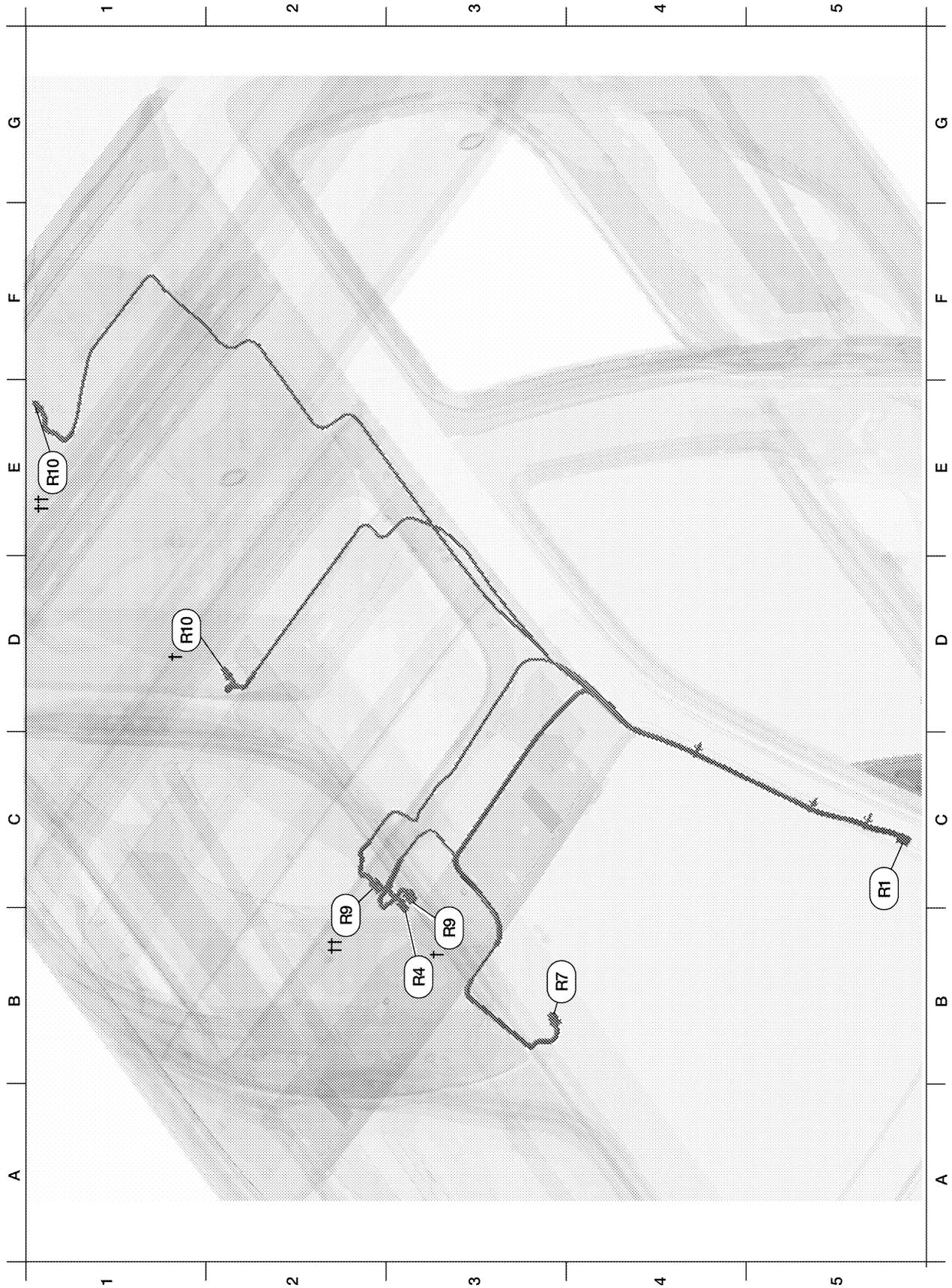
WKIA4097E

# HARNESS

F5	B102	W/2	: To E36					A
C3	B106	W/12	: To D301					B
D4	B108	W/3	: To D301					C
E4	†B110	W/3	: Front door switch RH (without power seat)					D
D4	††B110	W/3	: Front door switch RH (with power seat)					E
E5	B112	—	: Body ground (RH satellite sensor)					F
E3	B113	Y/12	: Air bag diagnosis sensor unit					G
D5	B114	Y/2	: RH side air bag (satellite) sensor					H
E5	B117	—	: Body ground					I
D4	†B126	Y/2	: Front RH side air bag module (without power seat)					J
D4	††B126	Y/2	: Front RH side air bag module (with power seat)					PG
C4	B127	Y/2	: Front RH seat belt pretensioner					L
B3	B132	—	: Body ground					M
E4	†B136	W/8	: To P151 (without power seat)					
D5	††B136	W/16	: To P151 (with power seat)					
D4	B137	B/3	: Belt tension sensor					
E5	B149	SMJ	: To M36					
F3	B157	Y/2	: To B78					
D4	B158	W/8	: Audio amplifier					
E4	B159	W/24	: Audio amplifier					
B1	B161	W/3	: High-mounted stop lamp					
F5	B162	W/12	: To M16					
F5	B163	W/16	: To M17					
A2	B165	B/1	: Rear window defogger					

# HARNESS

## ROOM LAMP HARNESS



LKIA0646E

# HARNESSES

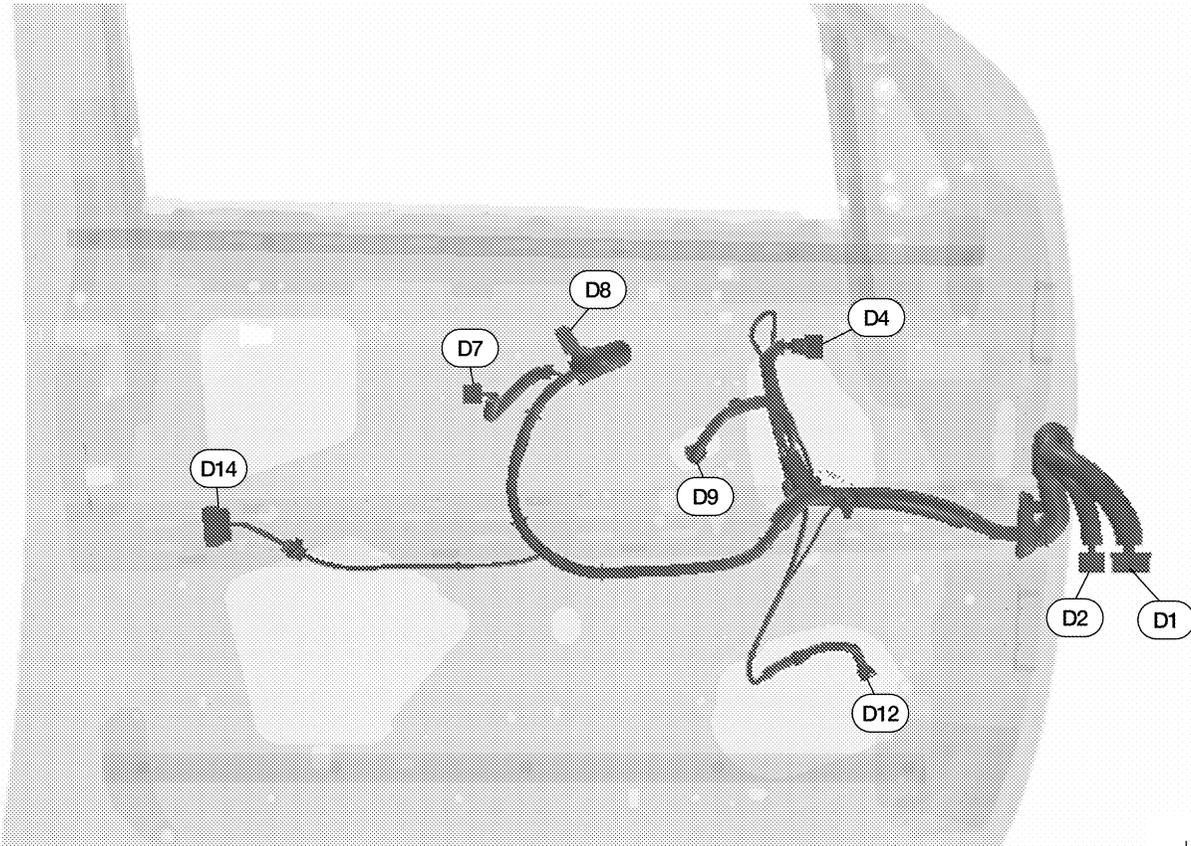
C5	R1	W/12	: To M1							
B3	R4	W/3	: Sunroof switch							A
B4	R7	B/10	: Auto anti-dazzling inside mirror (with HOMELINK universal transceiver)							B
B3	†R9	W/3	: Front room/map lamp assembly (with sunroof)							B
B2	††R9	W/3	: Front room/map lamp assembly (without sunroof)							C
E1	††R10	W/2	: Room lamp 2nd row (Crew cab models)							D
D1	†R10	W/2	: Room lamp 2nd row (King cab models)							D

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**PG**

# HARNESS

## FRONT DOOR LH HARNESS

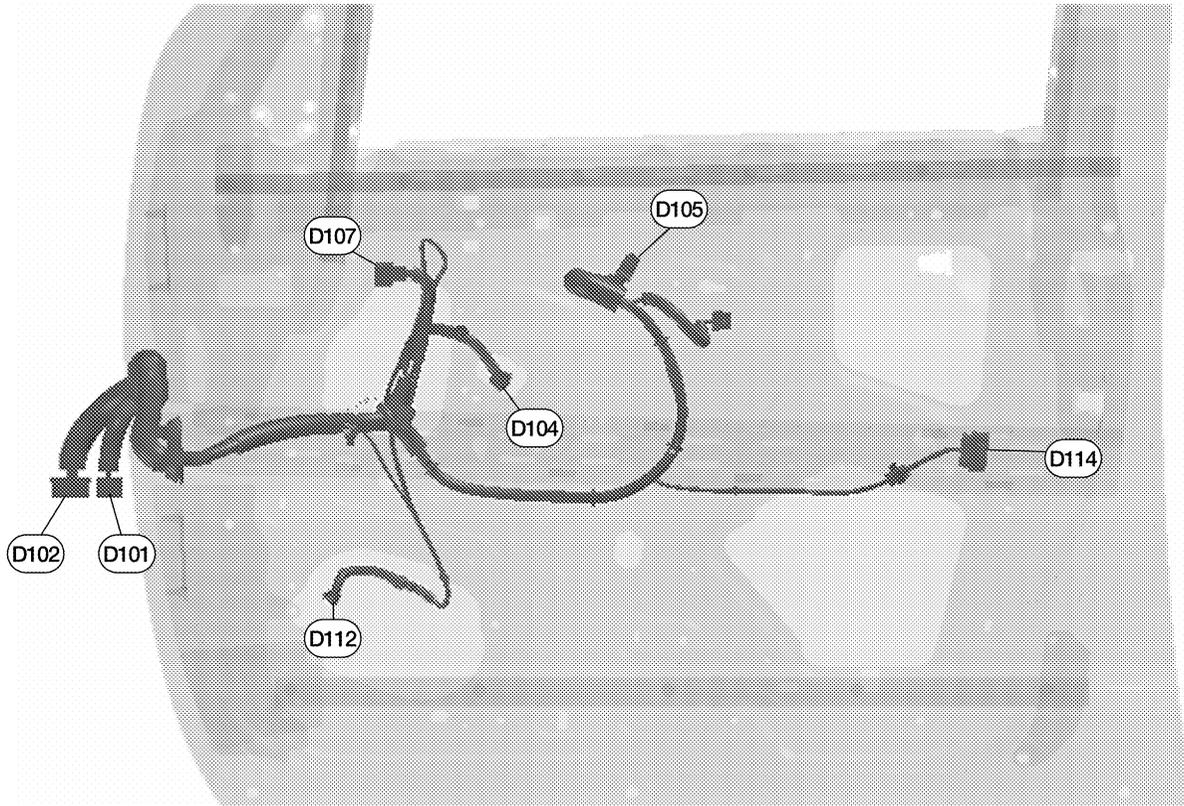


LKIA0642E

D1	W/24	: To M9	D8	W/3	: Main power window and door lock/unlock switch
D2	W/16	: To M8	D9	GR/2	: Front power window motor LH
D4	B/10	: Door mirror remote control switch	D12	W/2	: Front door speaker LH
D7	W/16	: Main power window and door lock/unlock switch	D14	GR/6	: Front door lock actuator LH (key cylinder switch)

# HARNESS

## FRONT DOOR RH HARNESS



LKIA0643E

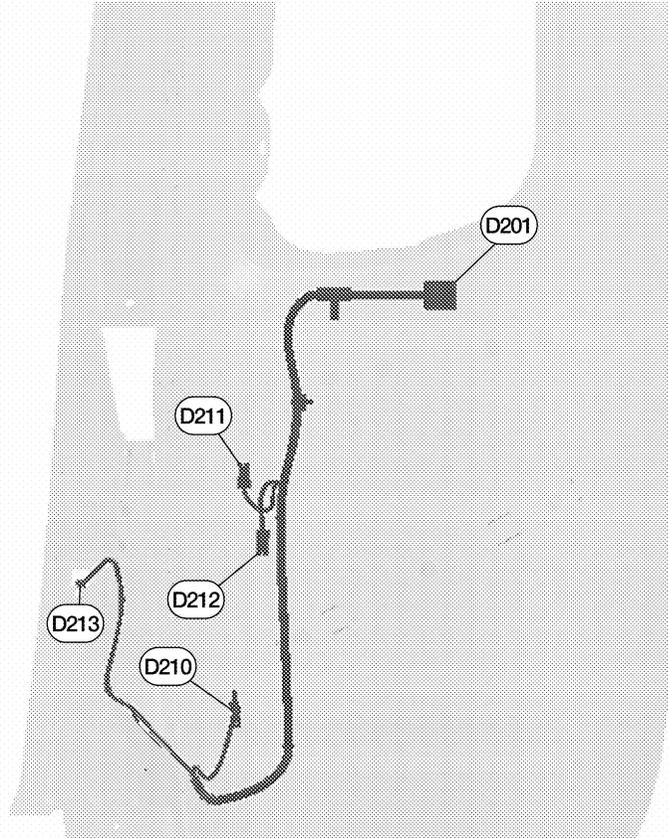
D101	W/12	: To M75	D107	B/10	Door mirror RH
D102	W/16	: To M74	D112	W/2	Front door speaker RH
D104	GR/2	: Front power window motor RH	D114	BR/2	Front door lock actuator RH
D105	W/12	: Power window and door lock/unlock switch			

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# HARNESSES

## REAR DOOR LH HARNESSES (KING CAB MODELS)



LKIA0644E

D201	W/8	: To B6	D212	GR/2	: Rear door switch lower LH
D210	Y/2	: Front LH seat belt pretensioner	D213	W/3	: Front door switch LH
D211	B/2	: Rear door switch upper LH			

# HARNESS

## REAR DOOR RH HARNESS (KING CAB MODELS)



LKIA0645E

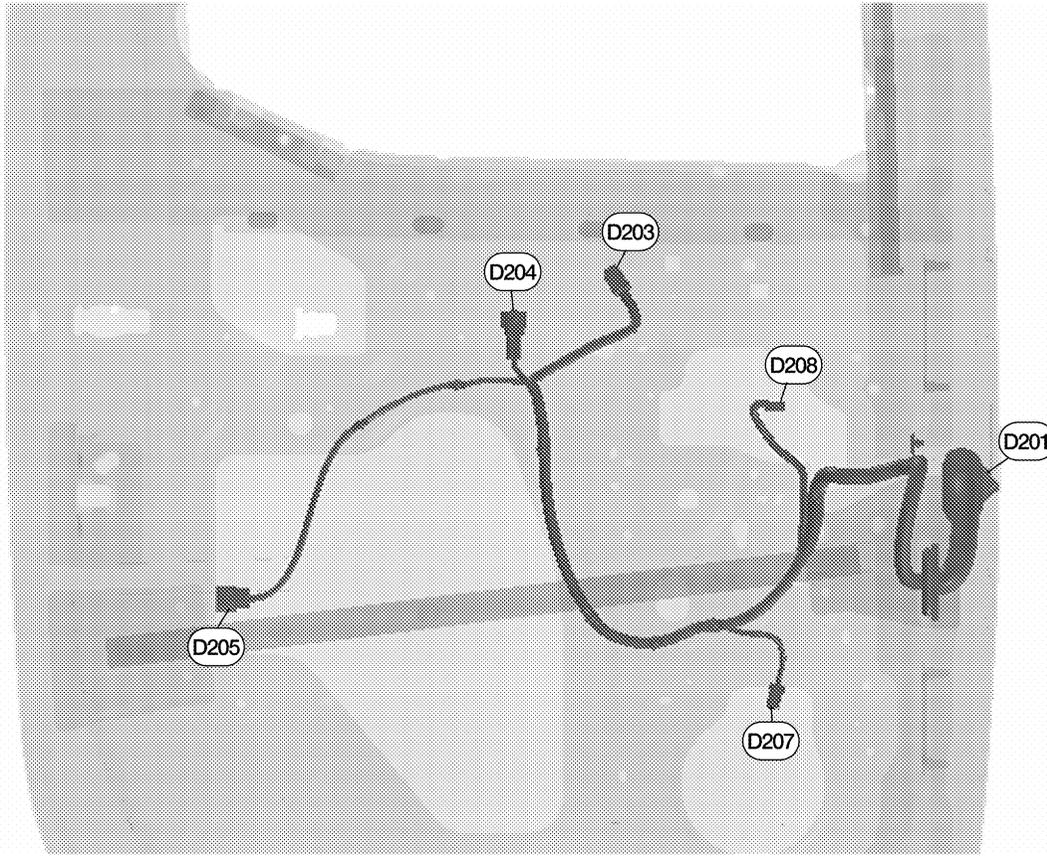
D301	W/8	: To B106	D312	B/2	: Rear door switch upper RH
D310	Y/2	: Front RH seat belt pretensioner	D313	B/2	: Rear door switch lower RH
D311	B/3	: Belt tension sensor	D314	W/3	: Front door switch RH

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# HARNESS

## REAR DOOR LH HARNESS (CREW CAB MODELS)

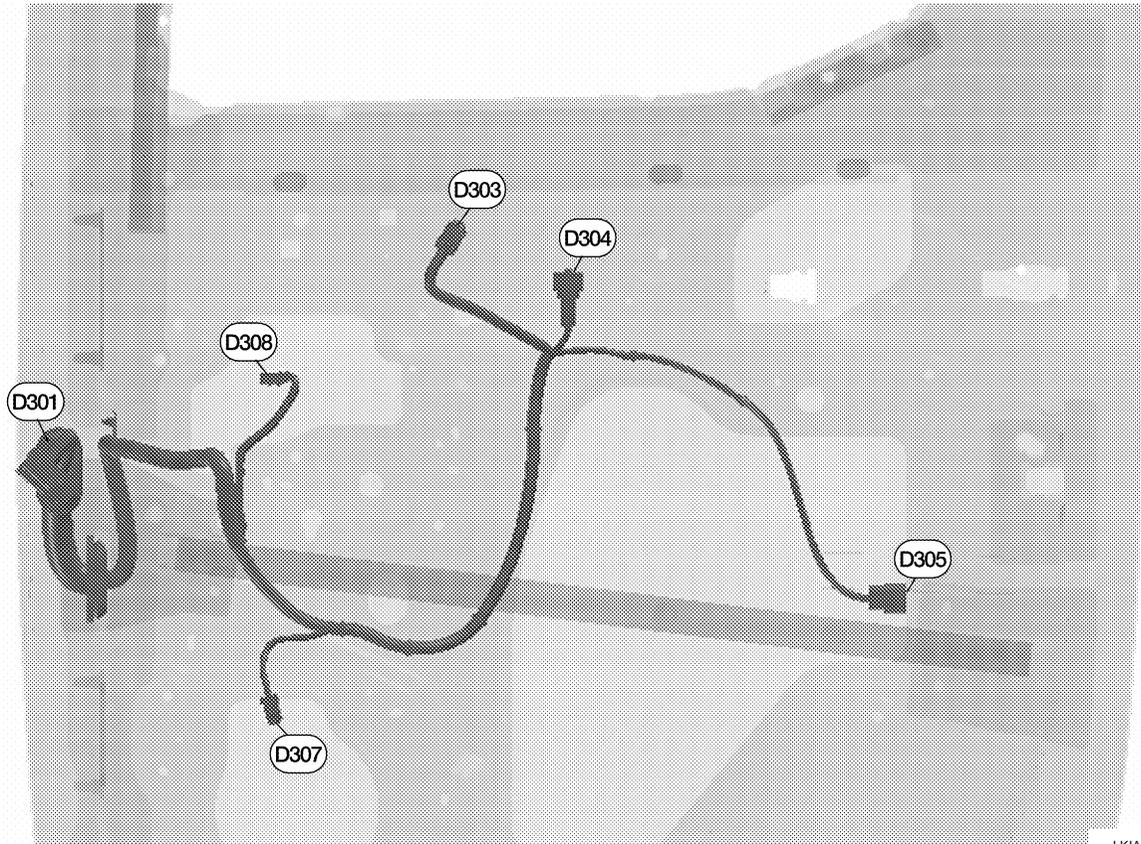


LKIA0647E

D201	W/12	: To B6	D207	W/2	: Rear door speaker LH (base audio)
D203	W/8	: Rear power window switch LH	D207	BR/2	: Rear door speaker LH (premium audio)
D204	B/2	: Rear power window motor LH	D208	BR/2	: Rear door tweeter LH
D205	BR/2	: Rear door lock actuator LH			

# HARNESS

## REAR DOOR RH HARNESS (CREW CAB MODELS)



LKIA0649E

D301	W/12	: To B106	D307	W/2	: Rear door speaker RH (base audio)
D303	W/8	: Rear power window switch RH	D307	BR/2	: Rear door speaker RH (premium audio)
D304	B/2	: Rear power window motor RH	D308	BR/2	: Rear door tweeter RH
D305	BR/2	: Rear door lock actuator RH			

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# HARNESS

EKS00E0T

## 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,M	MTC	Manual Air Conditioner
A/F	EC	Air Fuel Ratio (A/F) Sensor
A/FH	EC	Air Fuel Ratio (A/F) Sensor
ABLS	BRC	Anti-Lock Brake System Limited Slip
ABS	BRC	Anti-Lock Brake System
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 Heater Bank 1
AF1HB2	EC	Air Fuel Ratio (A/F) Sensor 1 Heater 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
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUTO/L	LT	Auto Light Control
B/COMP	DI	Combination Meter Board Computer
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
COOL/F	EC	Cooling Fan Control
COMBSW	LT	Combination Switch
COMPAS	DI	Compass
CUR/SE	EC	Battery Current Sensor
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
DIFLOC	RFD	Electronic Locking Differential
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
FTS	AT	A/T Fluid Temperature Sensor
FTTS	EC	Fuel Tank Temperature Sensor
FUEL	EC	Fuel Injection System Function
FUELB1	EC	Fuel Injection System Bank 1
FUELB2	EC	Fuel Injection System Bank 2

# HARNESSES

HEATER	MTC	Heater System	
H/LAMP	LT	Headlamp	A
H/MIRR	GW	Door Mirror With Heated Mirror	
HO2S2H	EC	Heated Oxygen Sensor 2 Heater	B
HO2S2	EC	Heated Oxygen Sensor 2	
HORN	WW	Horn	
HSEAT	SE	Heated Seat	C
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)	
IATS	EC	Intake Air Temperature Sensor	
IGNSYS	EC	Ignition System	D
ILL	LT	Illumination	
INJECT	EC	Injectors	
INT/L	LT	Room/Map, Vanity, Cargo, and Personal Lamps	E
IVC	EC	Intake Valve Timing Control Solenoid Valve	
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1	
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2	F
KEYLES	BL	Remote Keyless Entry System	
KS	EC	Knock Sensor	
MAFS	EC	Mass Air Flow Sensor	G
MAIN	AT	Main Power Supply and Ground Circuit	
MAIN	EC	Main Power Supply and Ground Circuit	
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges	H
MIL/DL	EC	Malfunction Indicator Lamp	
MIRROR	GW	Door Mirror	
NATS	BL	Nissan Anti-Theft System	I
NONDTC	AT	Non-Detective Items	
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1	
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2	J
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1	
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2	
P/SCKT	WW	Power Socket	PG
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PHASE	EC	Camshaft Position Sensor (PHASE)	
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank 1)	L
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank 1)	
PNP/SW	AT	Park/Neutral Position Switch	
PNP/SW	EC	Park/Neutral Position Switch	M
POS	EC	Crankshaft Position Sensor (POS)	
POWER	PG	Power Supply Routing	
PRE/SE	EC	EVAP Control System Pressure Sensor	
PS/SEN	EC	Power Steering Pressure Sensor	
RP/SEN	EC	Refrigerant Pressure Sensor	
SEAT	SE	Power Seat	
SEN/PW	EC	Sensor Power Supply	
SHIFT	AT	A/T Shift Lock System	
SROOF	RF	Sunroof	
SRS	SRS	Supplemental Restraint System	
STSIG	AT	Start Signal Circuit	
START	SC	Starting System	
STOP/L	LT	Stop Lamp	
T/TOW	LT	Trailer Tow	
T/WARN	WT	Low Tire Pressure Warning System	

# HARNESSES

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
VEHSEC	BL	Vehicle security (theft warning) system
VENT/V	EC	EVAP Canister Vent Control Valve
VIAS	EC	Variable Air Induction Control System
VIAS/V	EC	Variable Air Induction Control System Valve
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

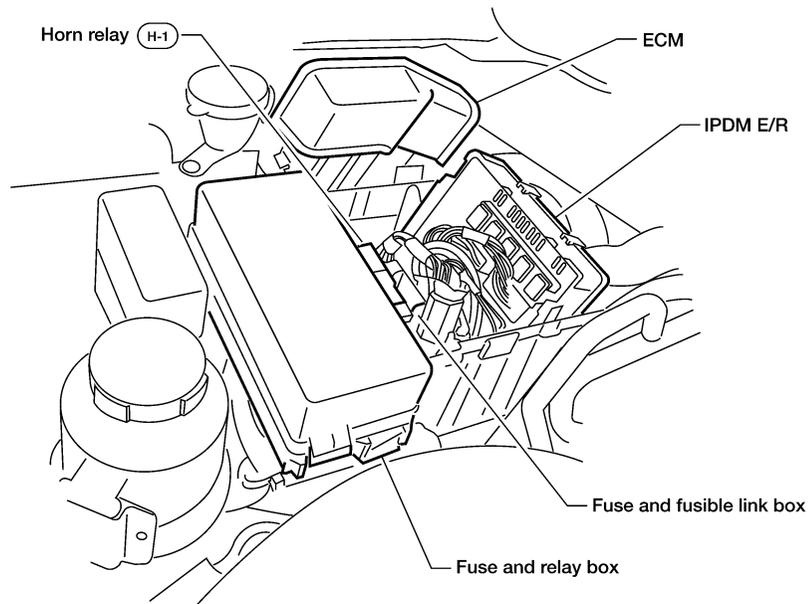
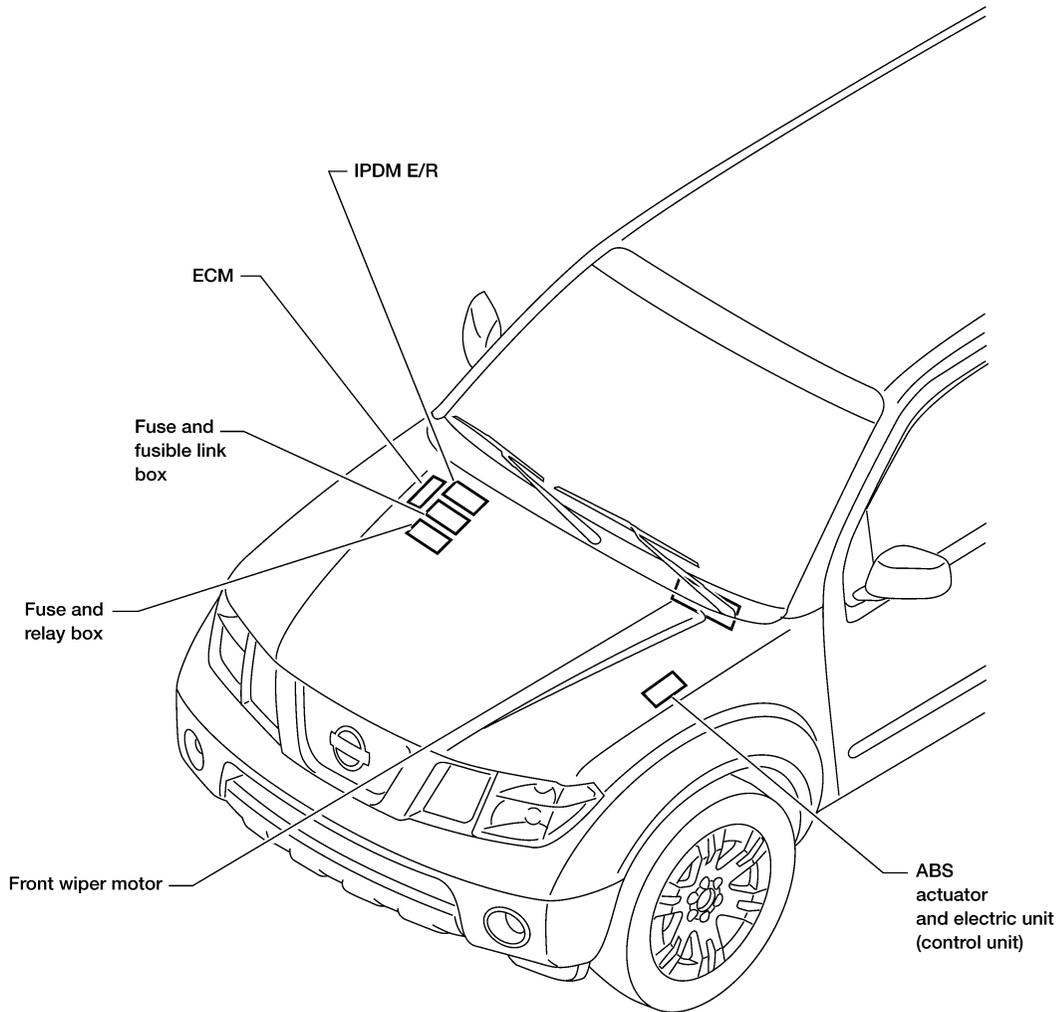
# ELECTRICAL UNITS LOCATION

## ELECTRICAL UNITS LOCATION

PF2:25230

### Electrical Units Location ENGINE COMPARTMENT

EKS00E0U

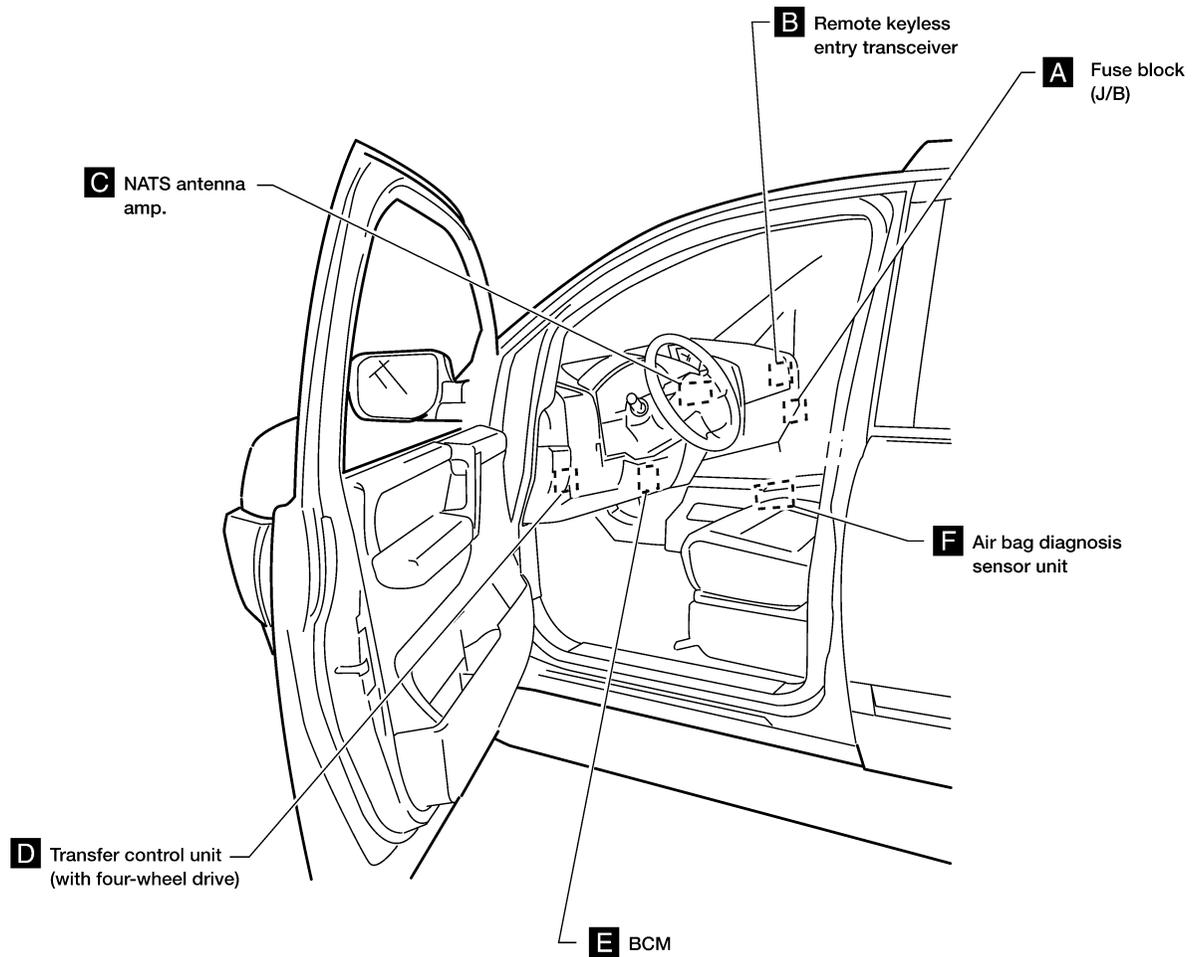


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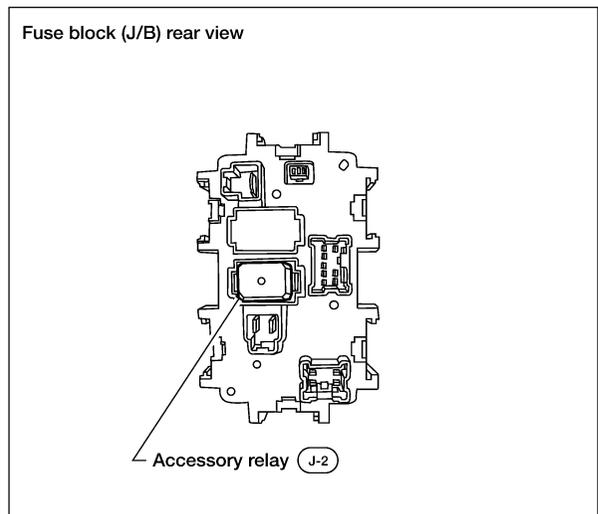
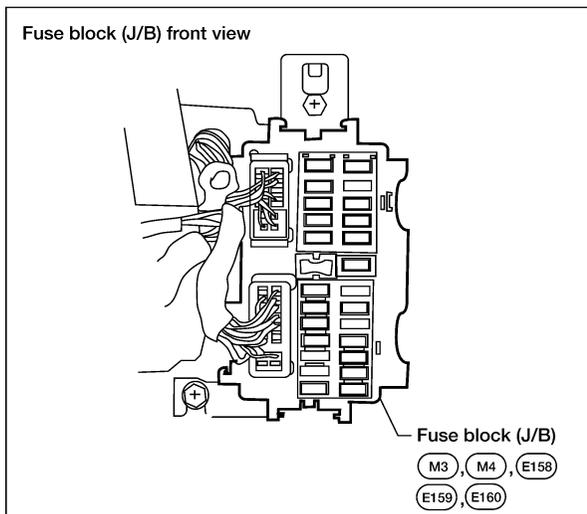
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# ELECTRICAL UNITS LOCATION

## PASSENGER COMPARTMENT

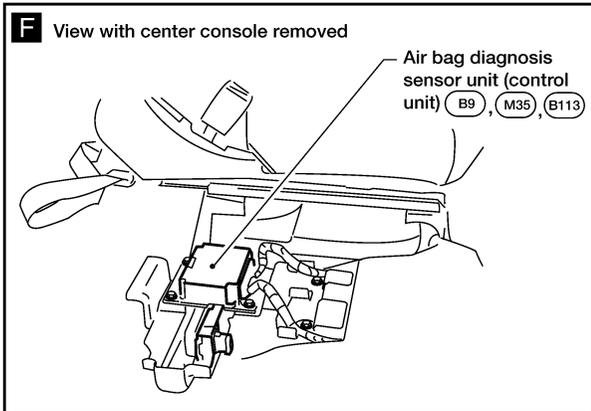
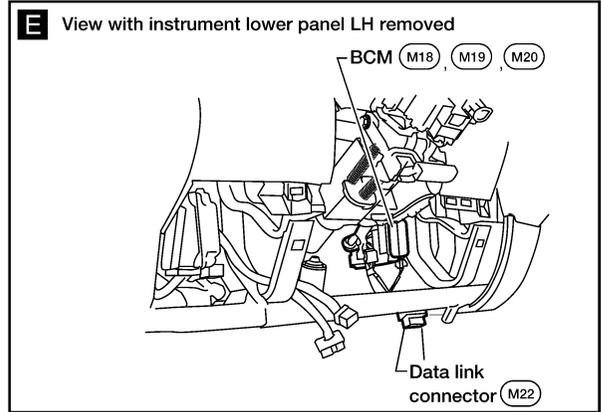
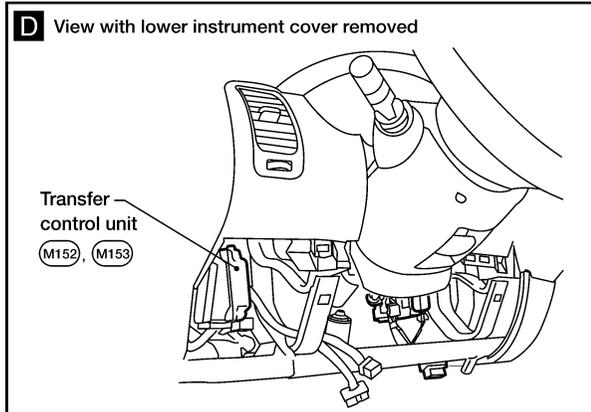
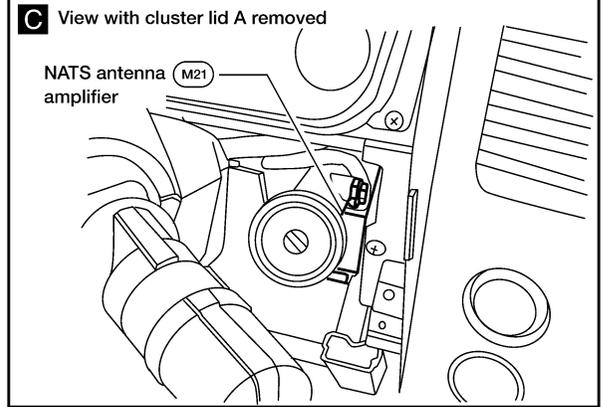
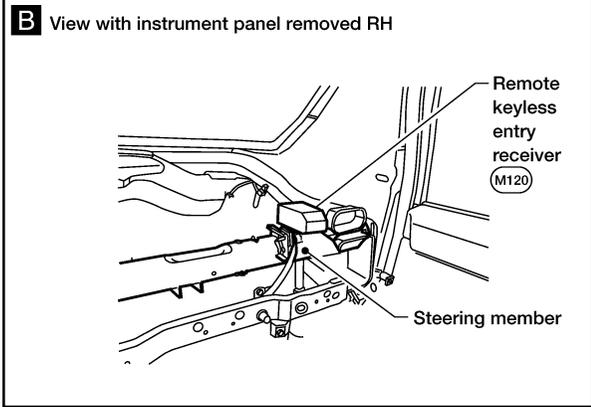


### **A** Instrument panel side RH



WKIA3789E

# ELECTRICAL UNITS LOCATION



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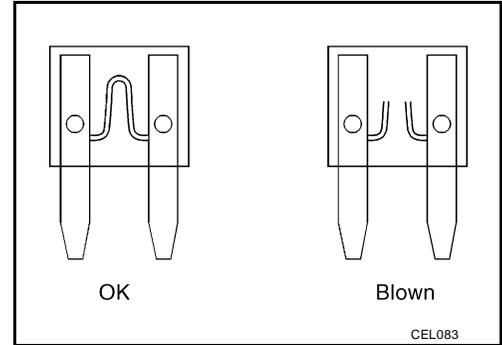
WKIA3790E

# ELECTRICAL UNITS LOCATION

## Fuse

EKS00EOV

- 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

EKS00EOW

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.

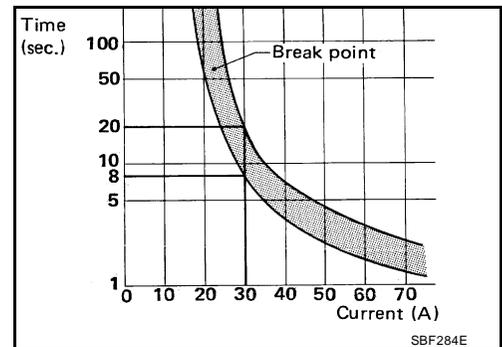
## Circuit Breaker (Built Into BCM)

EKS00EOX

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
- Sunroof



# HARNESS CONNECTOR

PFP:B4341

EKS00EOY

## HARNESS CONNECTOR

### Description

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

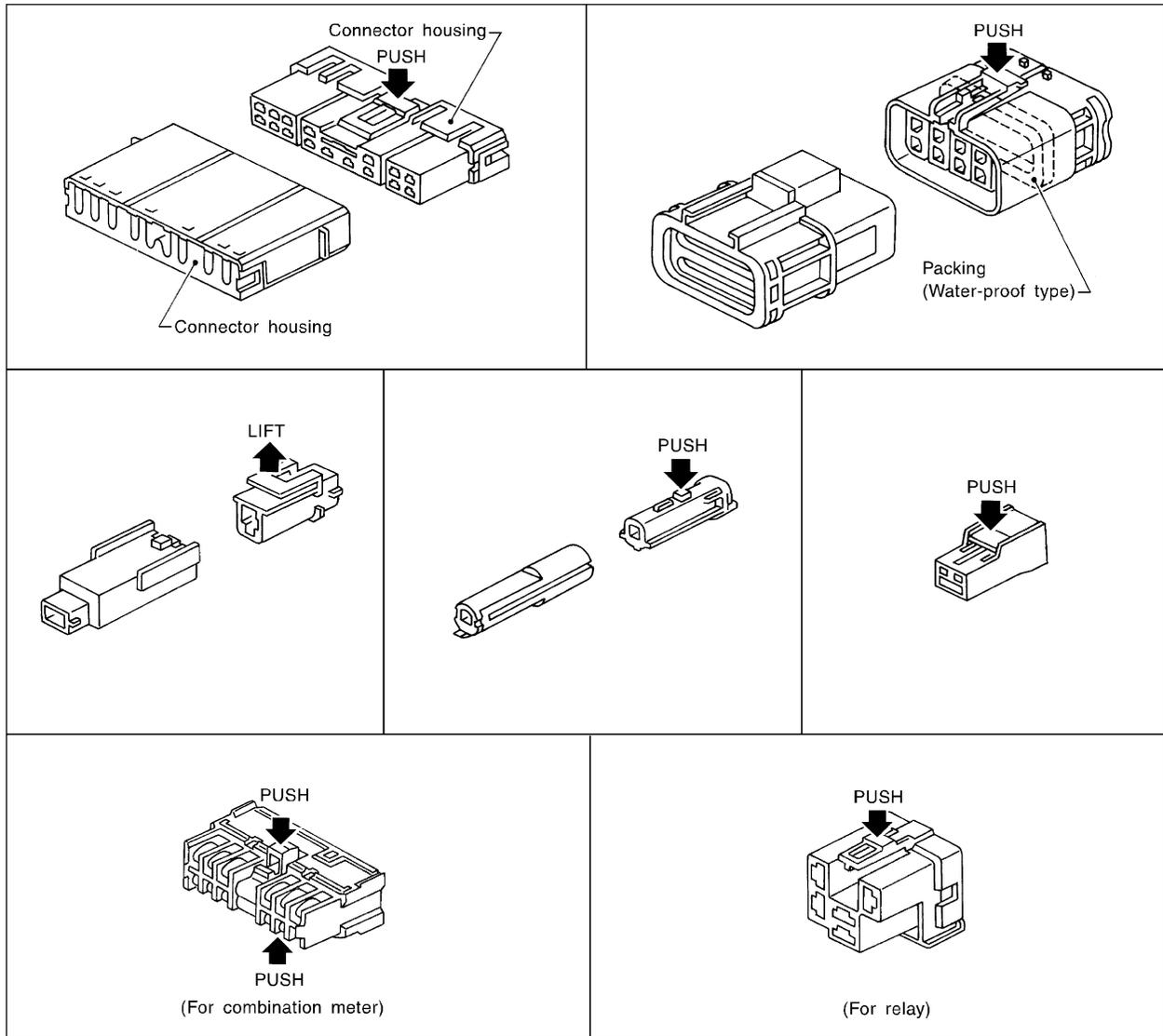
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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]



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# HARNESS CONNECTOR

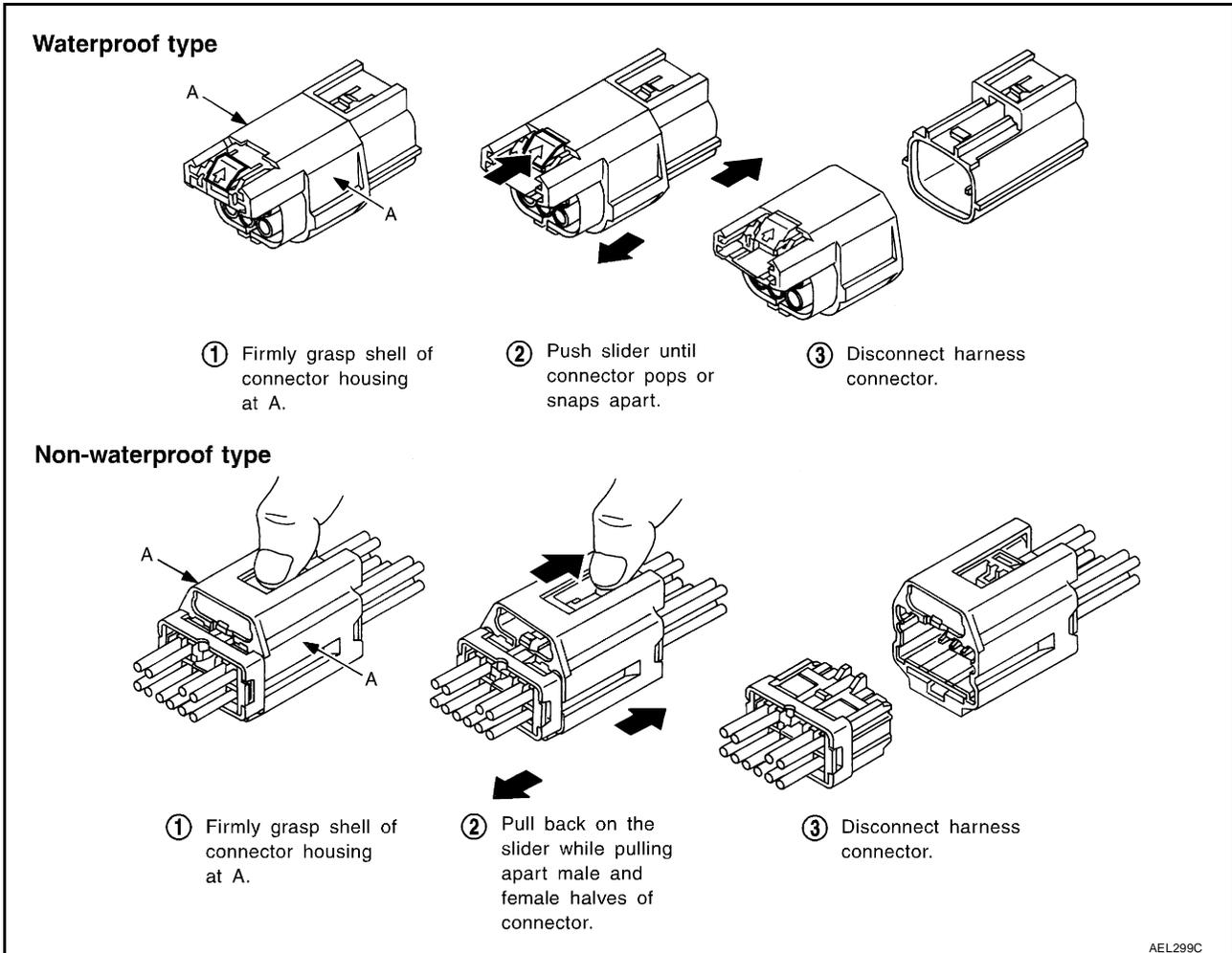
## HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



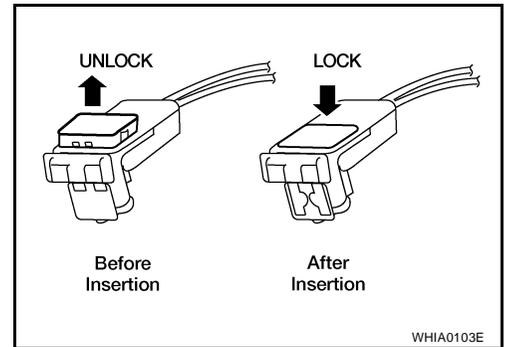
# HARNES CONNECTOR

## 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.**



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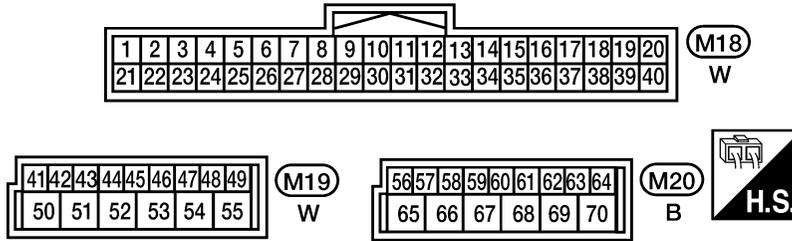
# ELECTRICAL UNITS

PF2:23710

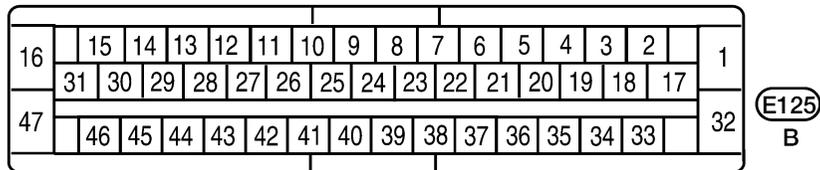
EKS00EOZ

## ELECTRICAL UNITS Terminal Arrangement

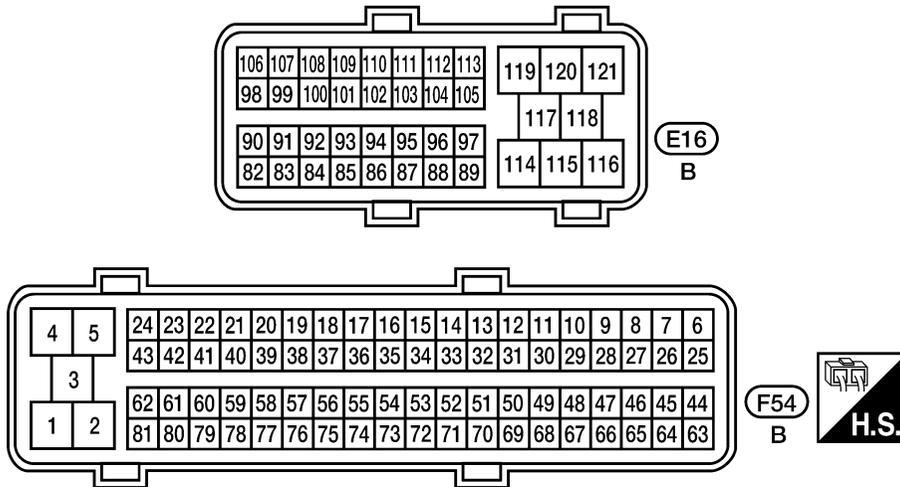
### BCM (BODY CONTROL MODULE)



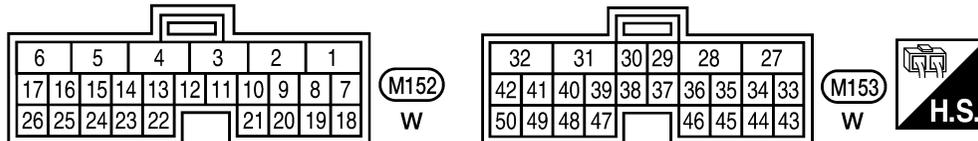
### ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



### ECM



### TRANSFER CONTROL UNIT



WKIA3785E

# STANDARDIZED RELAY

PFP:25230

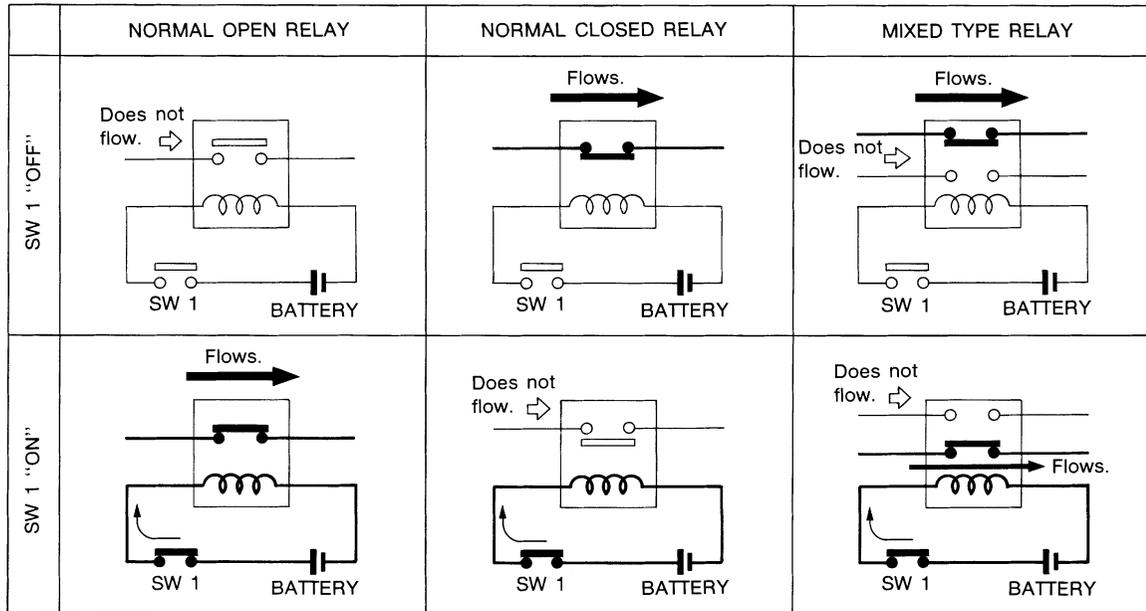
EKS00EP0

## STANDARDIZED RELAY

### Description

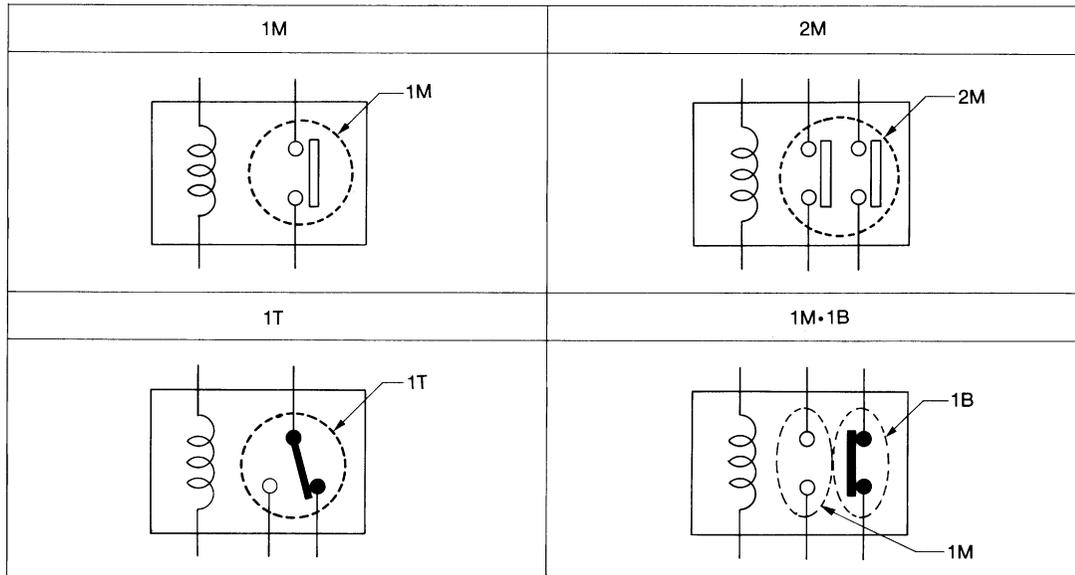
### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

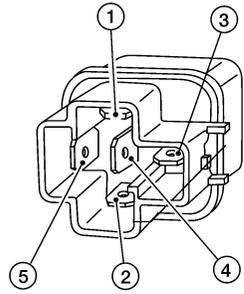
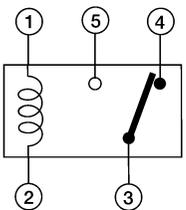
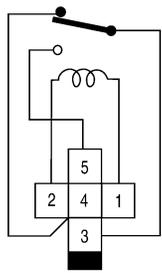
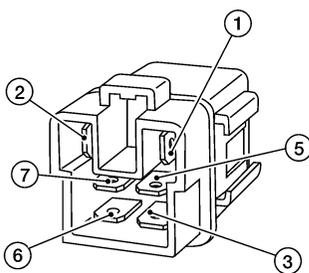
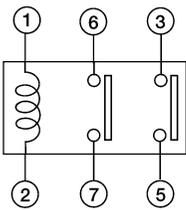
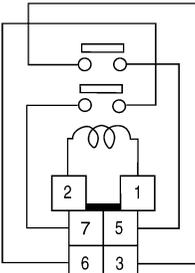
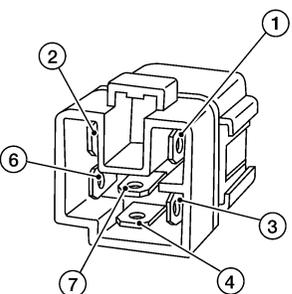
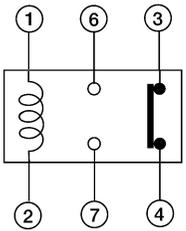
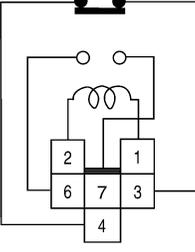
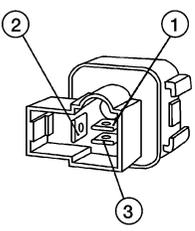
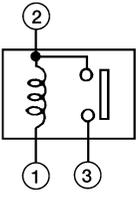
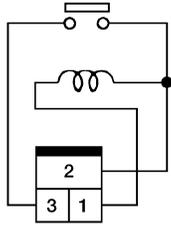
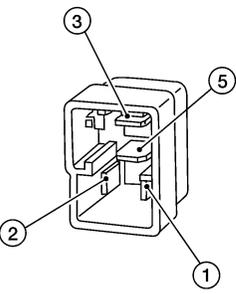
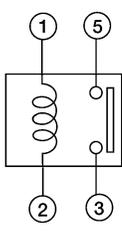
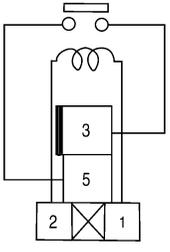
### TYPE OF STANDARDIZED RELAYS



SEL882H

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

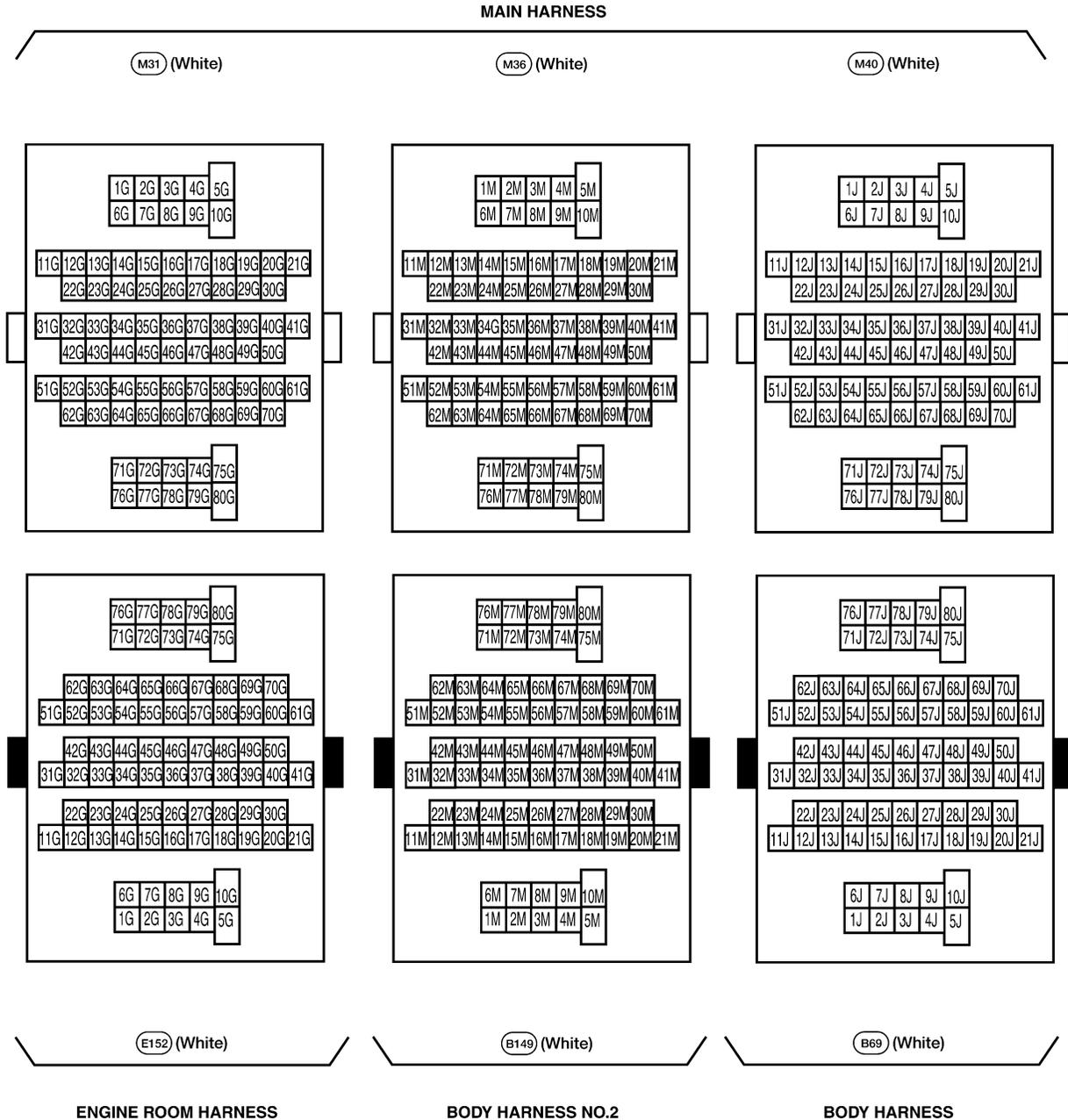
# SUPER MULTIPLE JUNCTION (SMJ)

## SUPER MULTIPLE JUNCTION (SMJ) Terminal Arrangement

PF:84341

EKS00EP1

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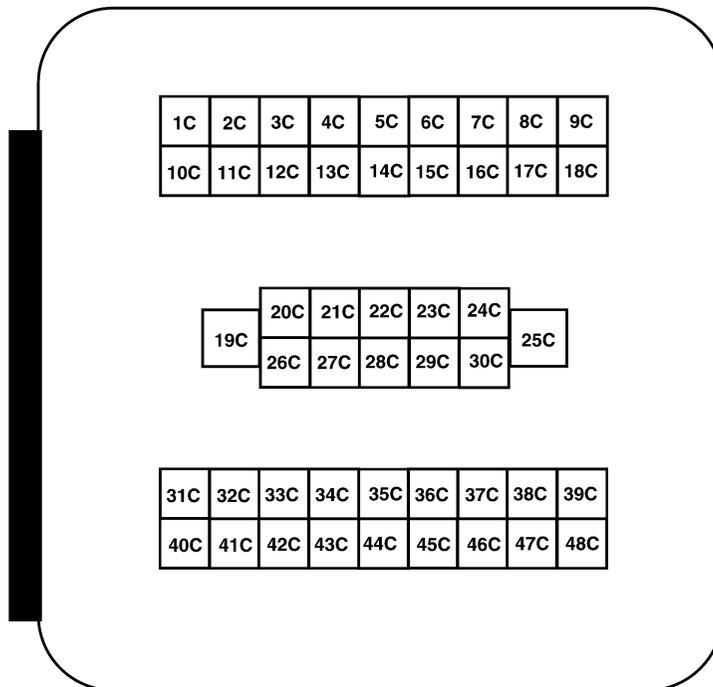
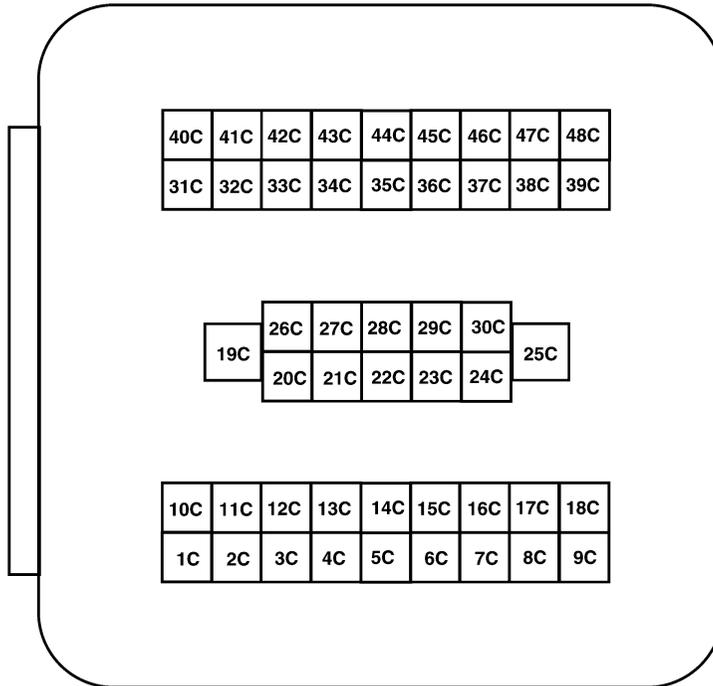


WKIA3590E

# SUPER MULTIPLE JUNCTION (SMJ)

## CHASSIS HARNESS

C1 (Black)



E41 (Black)

## ENGINE ROOM HARNESS

WKIA4067E

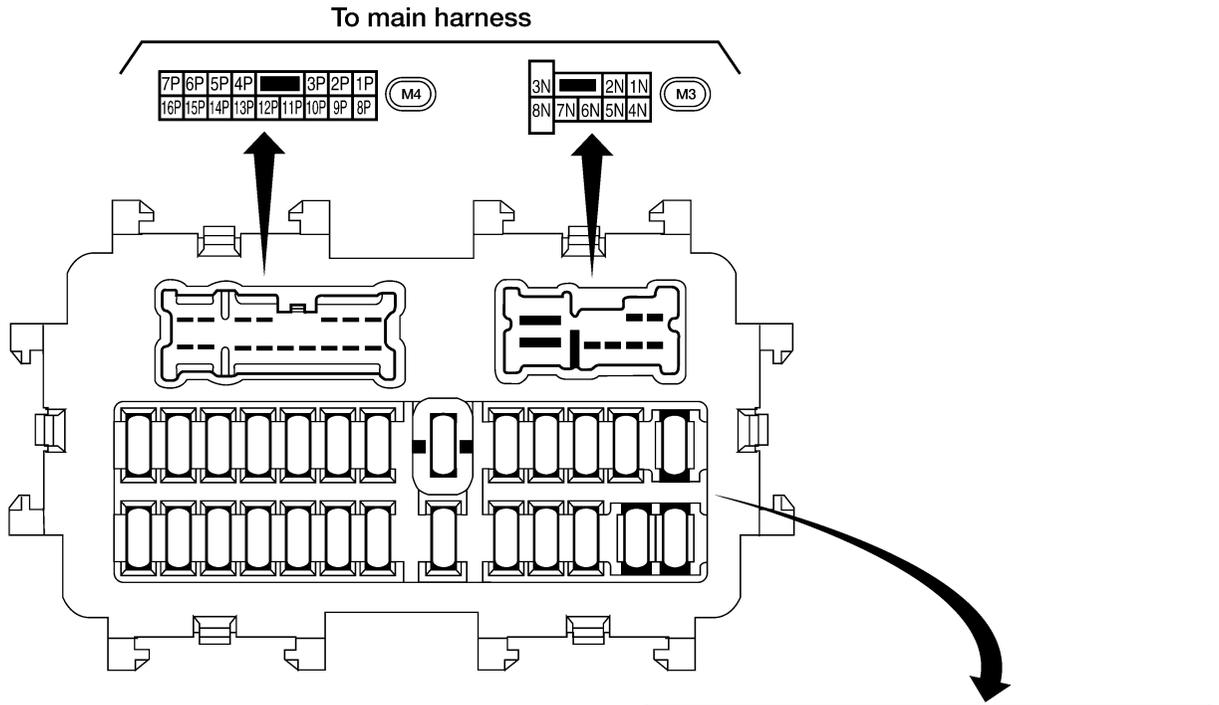
# FUSE BLOCK-JUNCTION BOX(J/B)

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

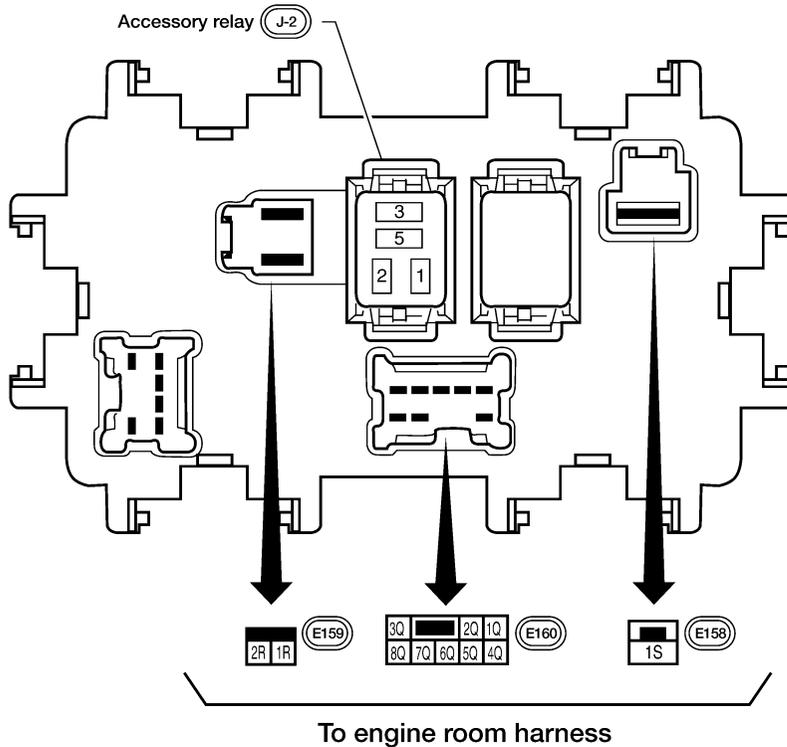
### Terminal Arrangement

PFP:24350

EKS00EP2



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



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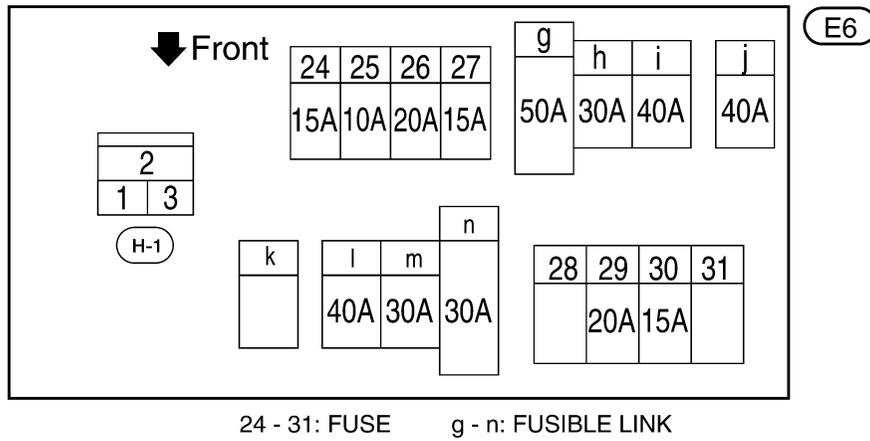
# FUSE AND FUSIBLE LINK BOX

## FUSE AND FUSIBLE LINK BOX

PFP:24381

### Terminal Arrangement

EKS00EP3



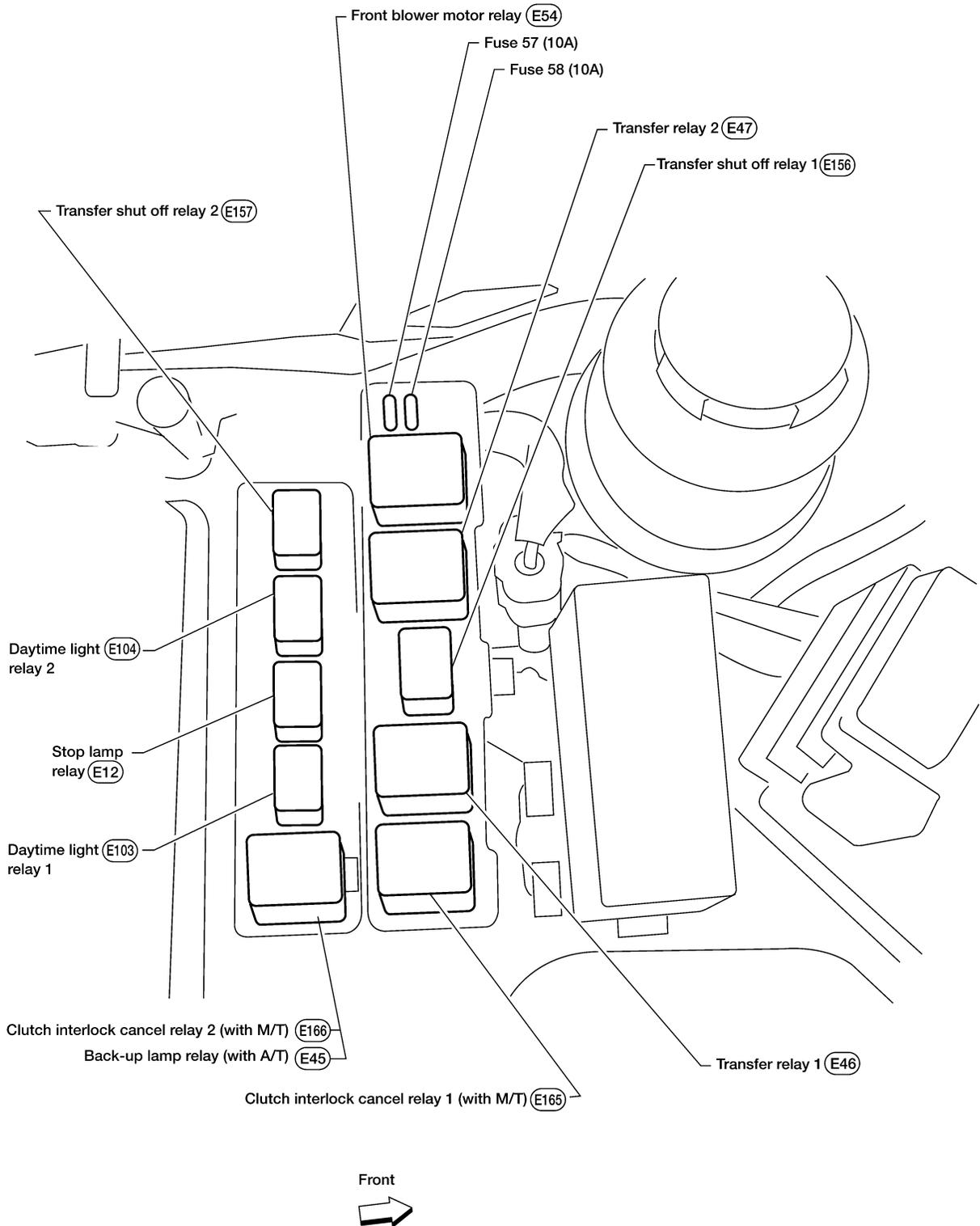
WKIA4069E

# FUSE AND RELAY BOX

PF24012

EKS00EP4

## FUSE AND RELAY BOX Terminal Arrangement



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

PG

WKIA4070E

# FUSE AND RELAY BOX

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