

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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NORMAL OPEN, NORMAL CLOSED AND			

PRECAUTIONS

PRECAUTIONS

PFP:00011

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

EKS00AR4

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

EKS00AR5

When you read wiring diagrams, refer to the following:

- Refer to [GI-15, "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-11, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section.
- Refer to [GI-27, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section.

A

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I

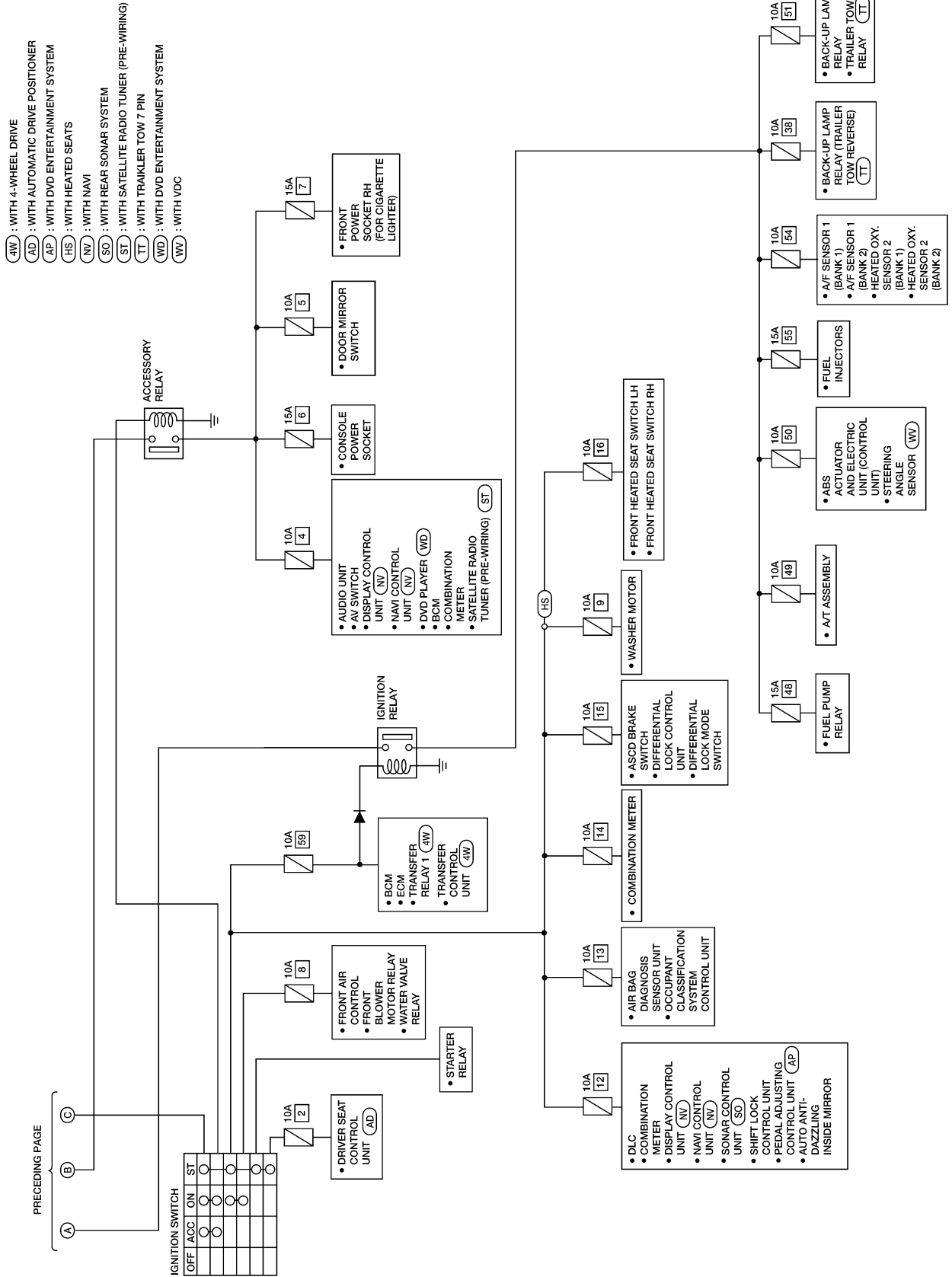
J

PG

L

M

POWER SUPPLY ROUTING CIRCUIT



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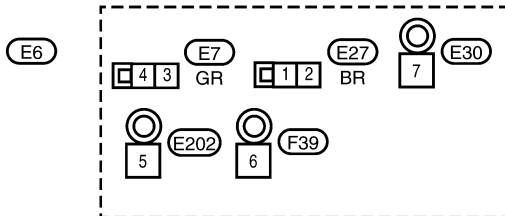
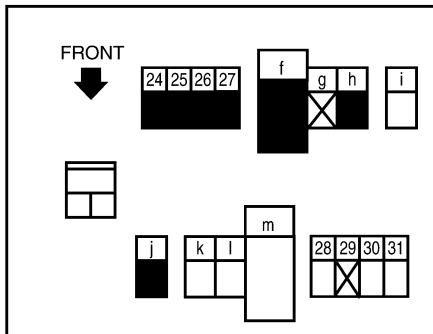
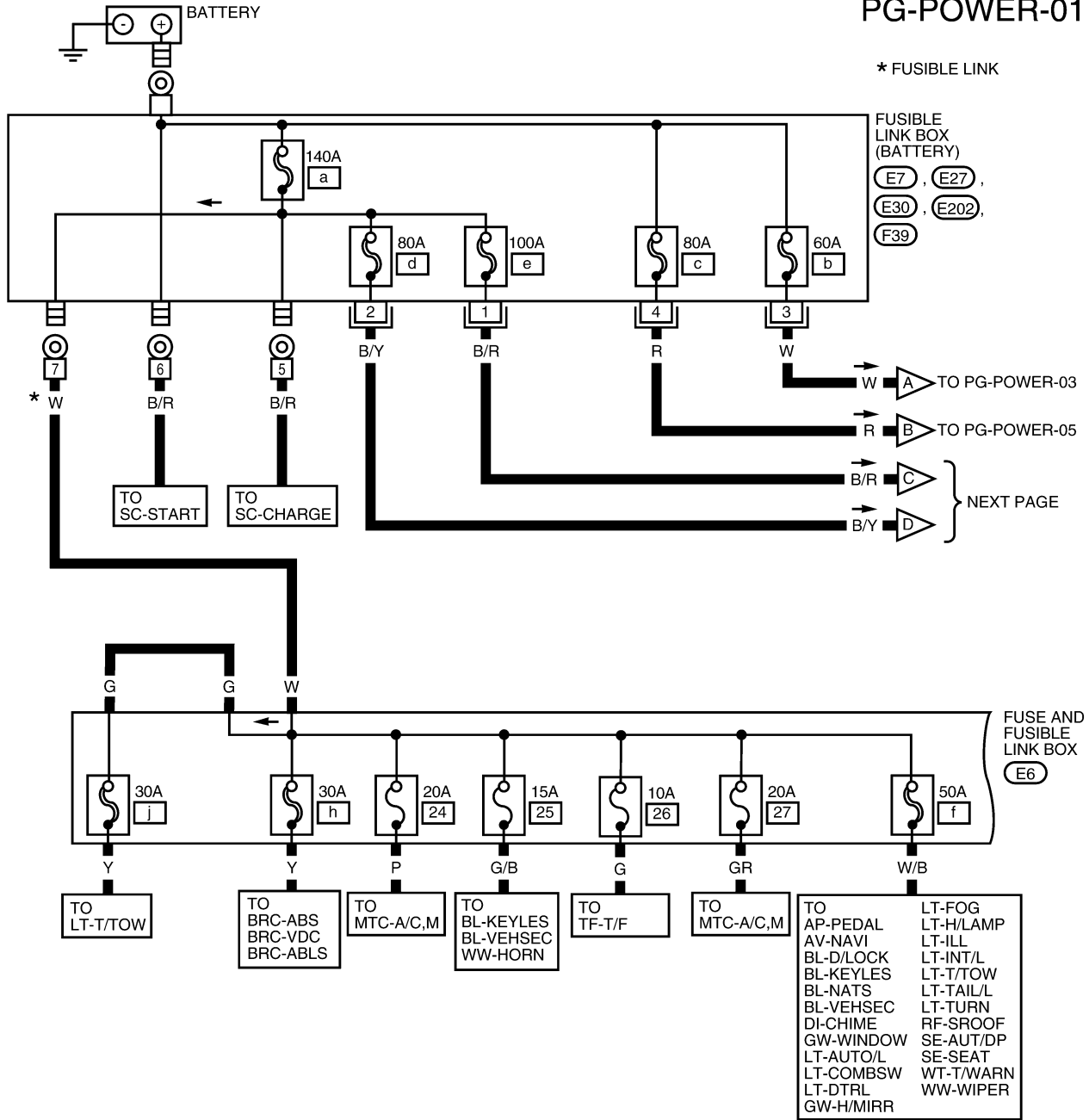
PG

POWER SUPPLY ROUTING CIRCUIT

EKS00AR7

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

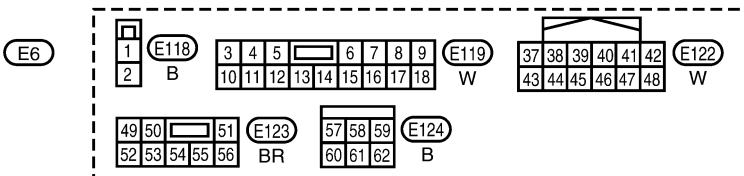
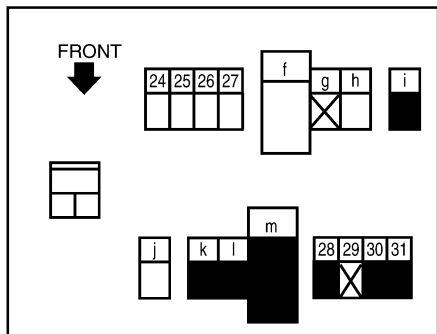
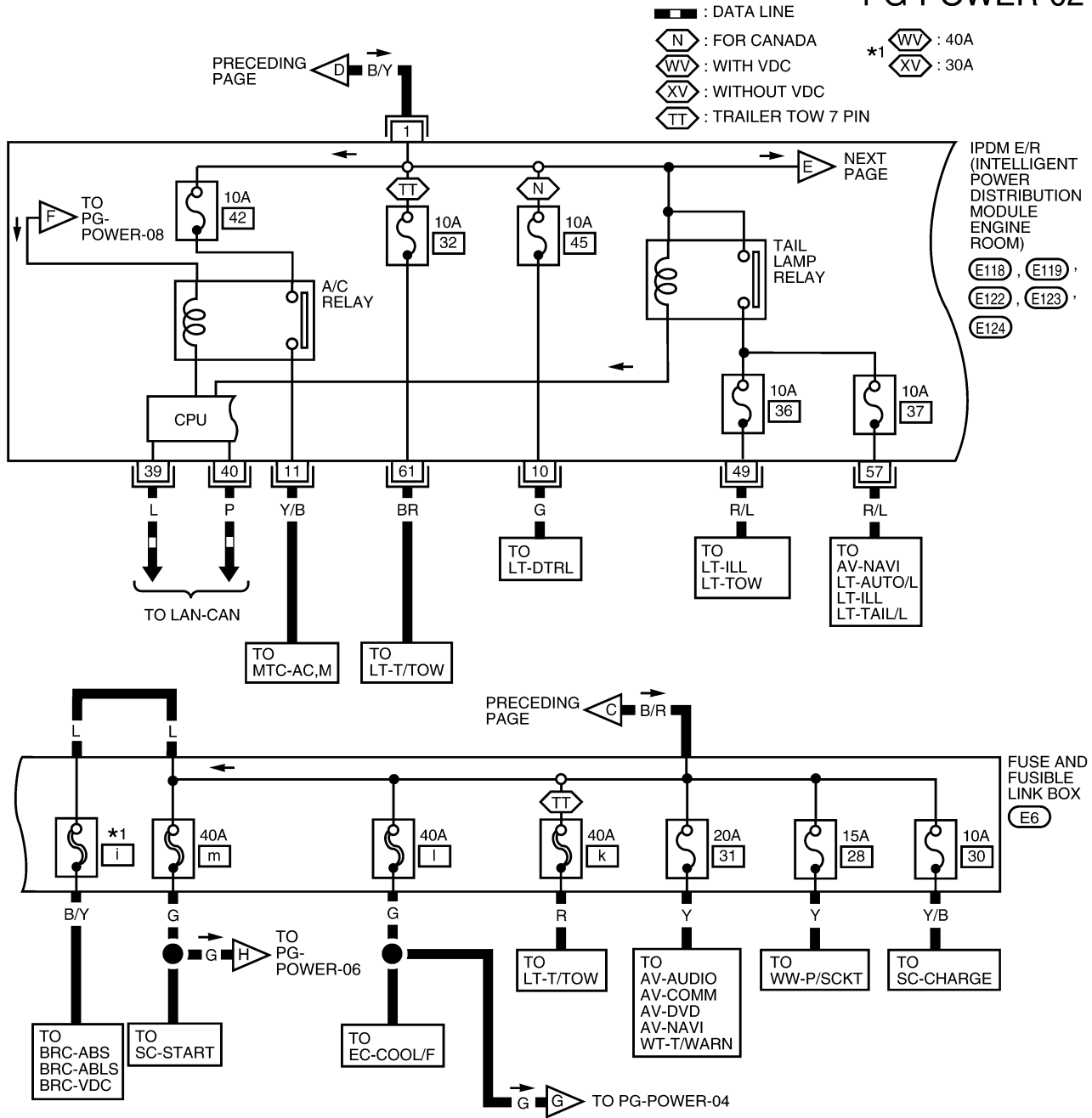
PG-POWER-01



WKWA2770E

POWER SUPPLY ROUTING CIRCUIT

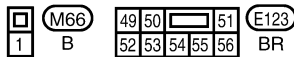
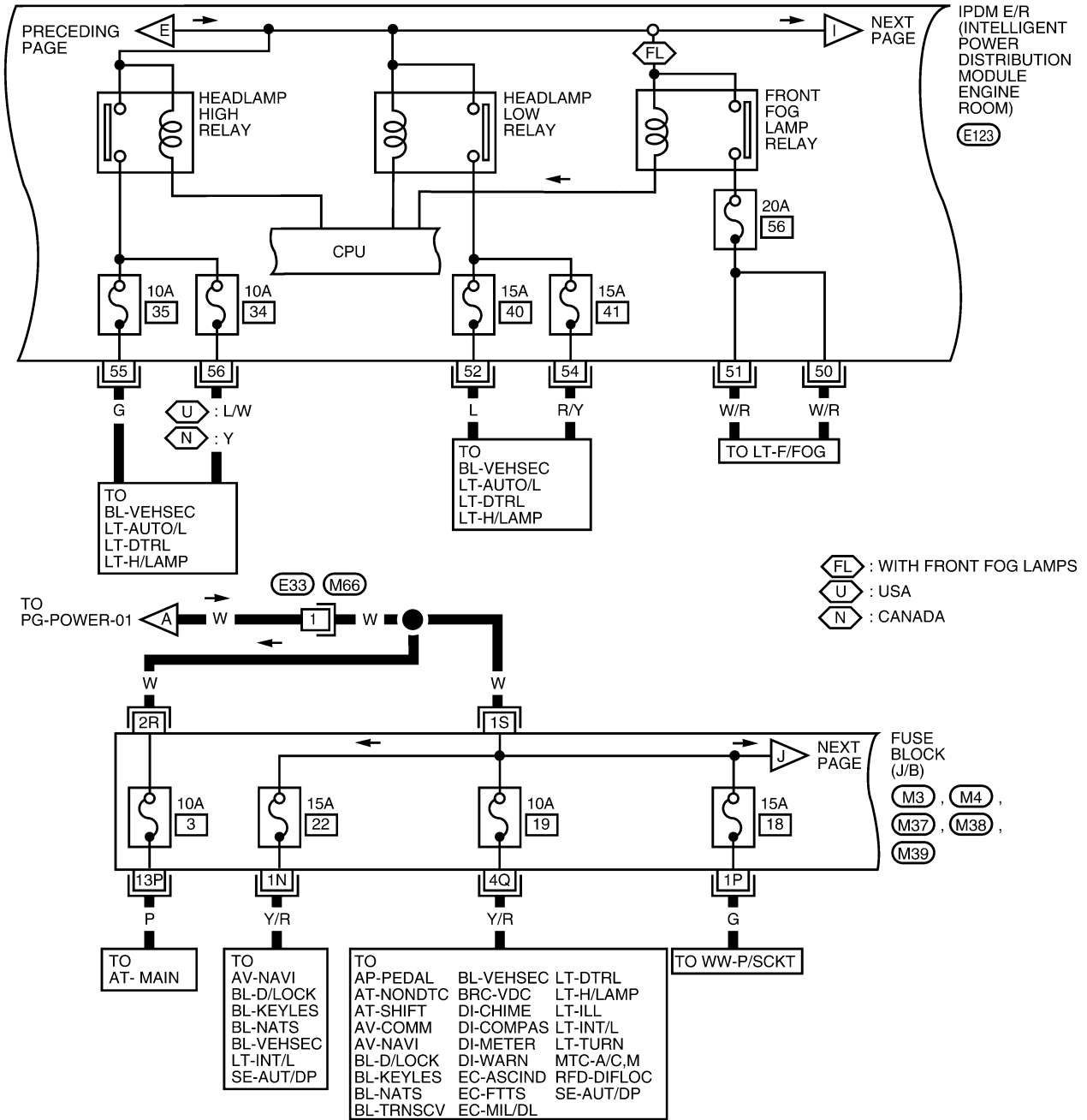
PG-POWER-02



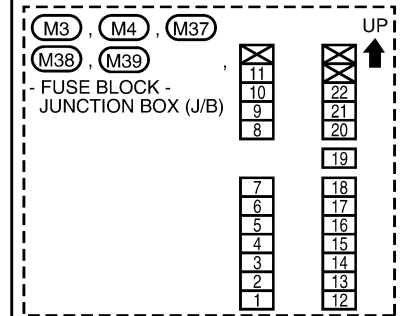
WKWA2771E

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-03



REFER TO THE FOLLOWING.

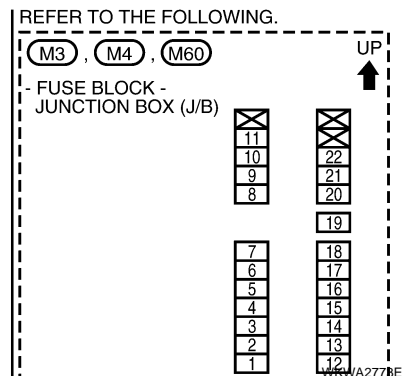
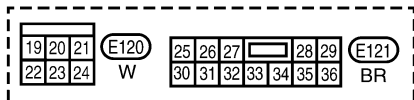
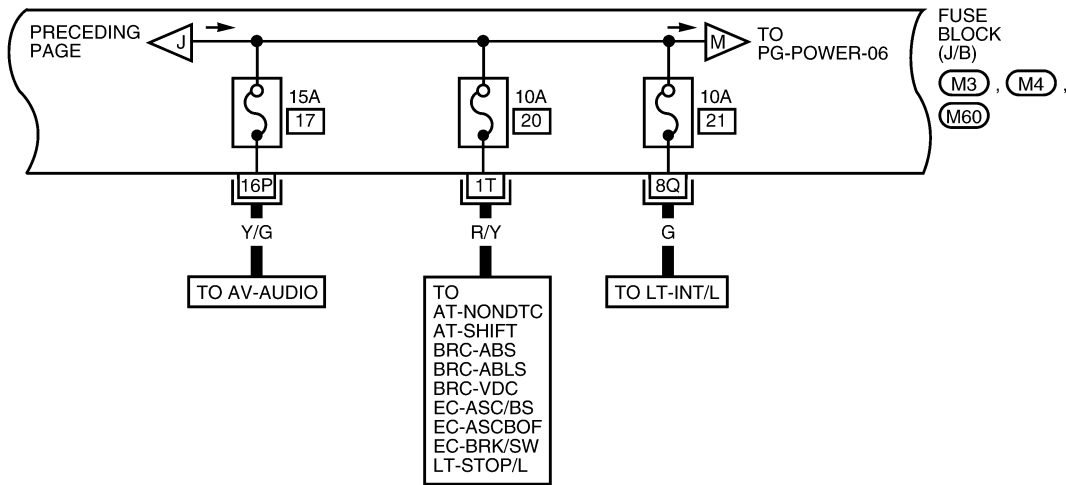
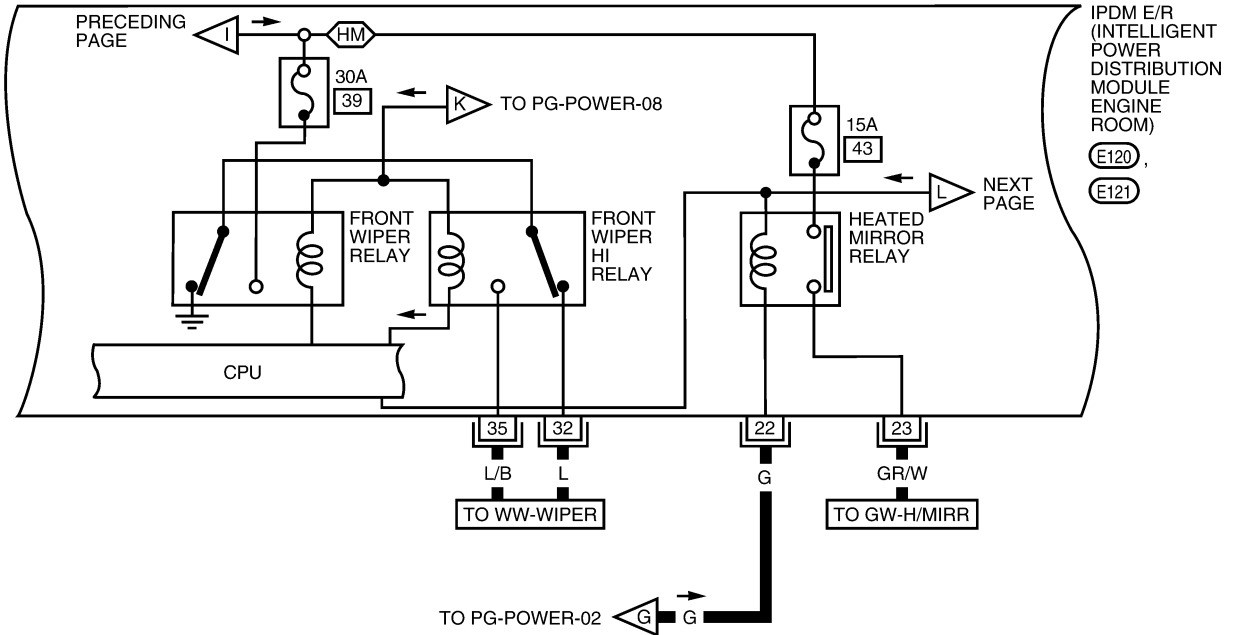


WKWA2772E

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-04

HM : WITH HEATED MIRRORS

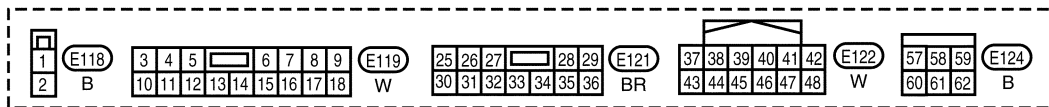
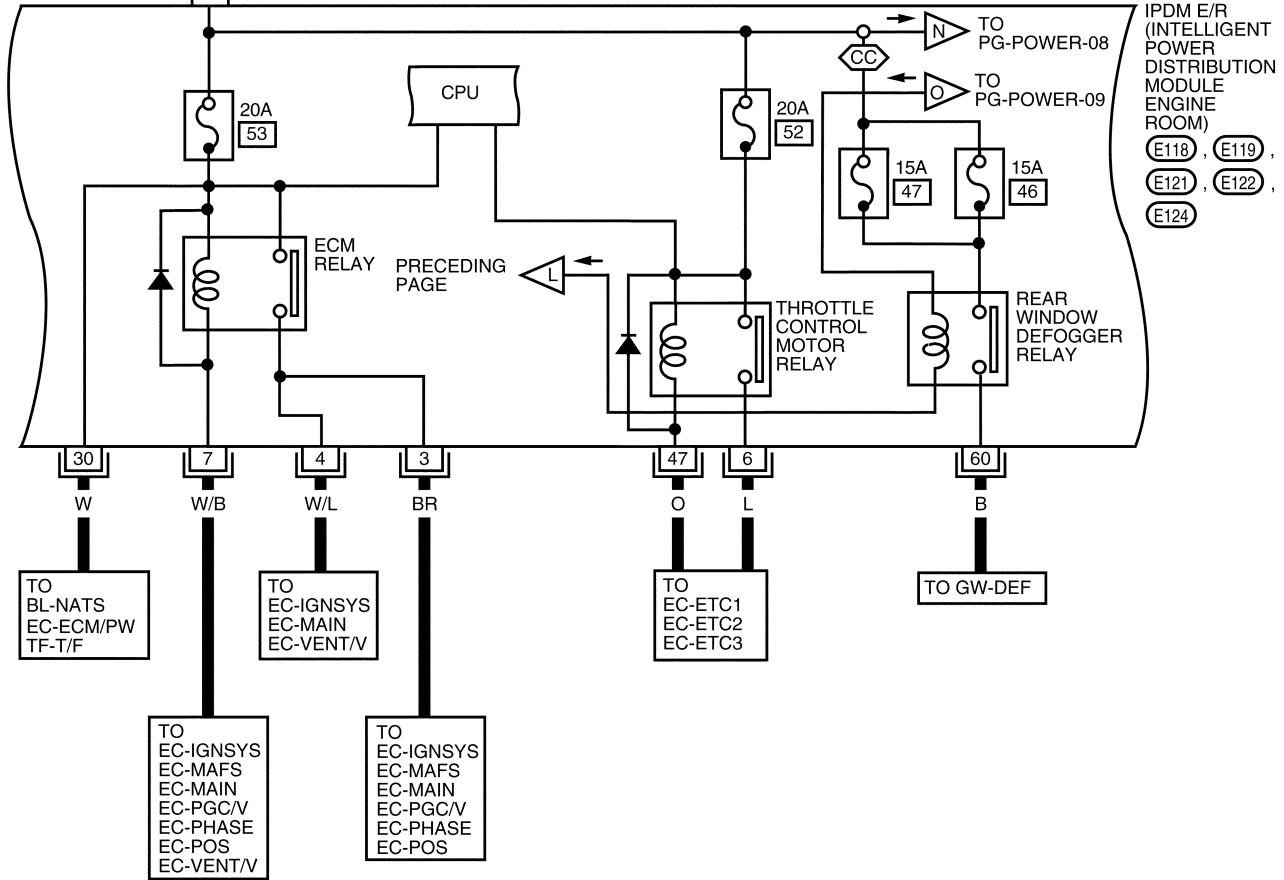


POWER SUPPLY ROUTING CIRCUIT

PG-POWER-05

TO PG-POWER-01
B

CC : CREW CAB

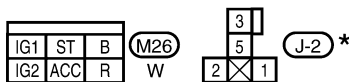
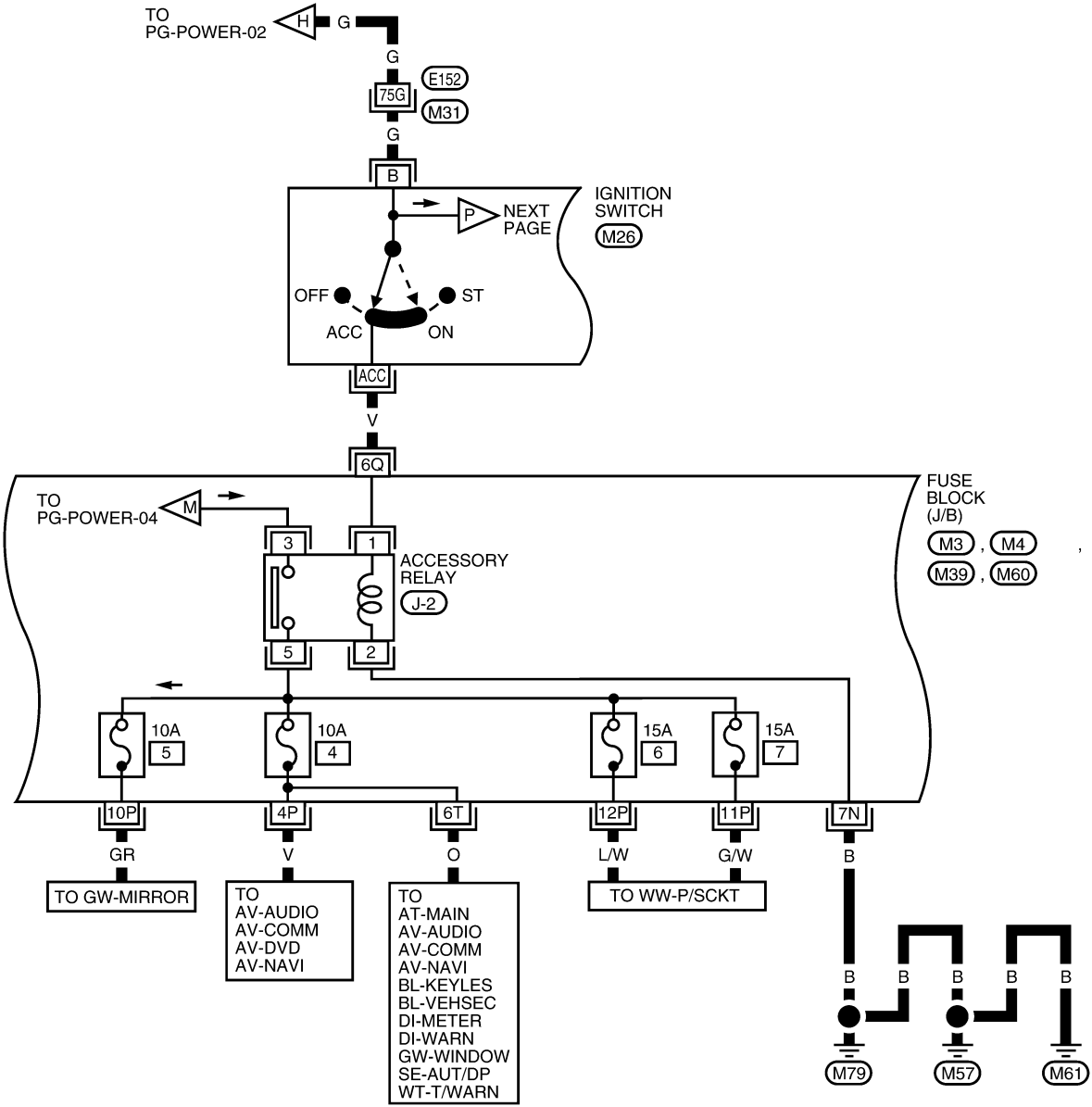


WKWA4584E

POWER SUPPLY ROUTING CIRCUIT

ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

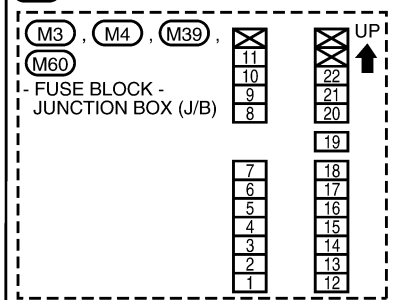
PG-POWER-06



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

REFER TO THE FOLLOWING.

(M31) - SUPER MULTIPLE JUNCTION (SMJ)

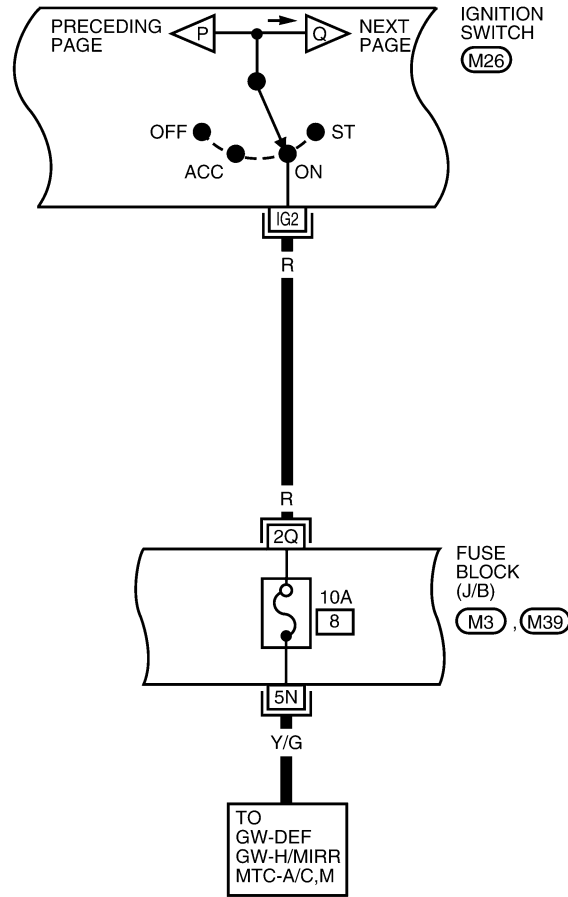


WKWA4585E

POWER SUPPLY ROUTING CIRCUIT

IGNITION POWER SUPPLY — IGNITION SW. IN ON

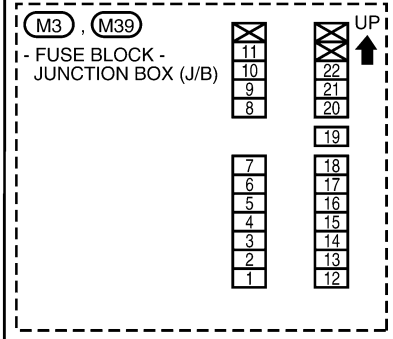
PG-POWER-07



IG1	ST	B	M26
IG2	ACC	R	

W

REFER TO THE FOLLOWING.



WKWA2776E

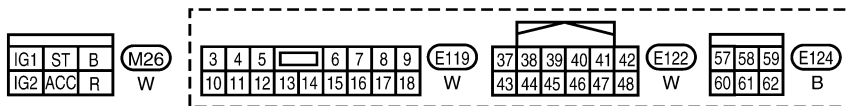
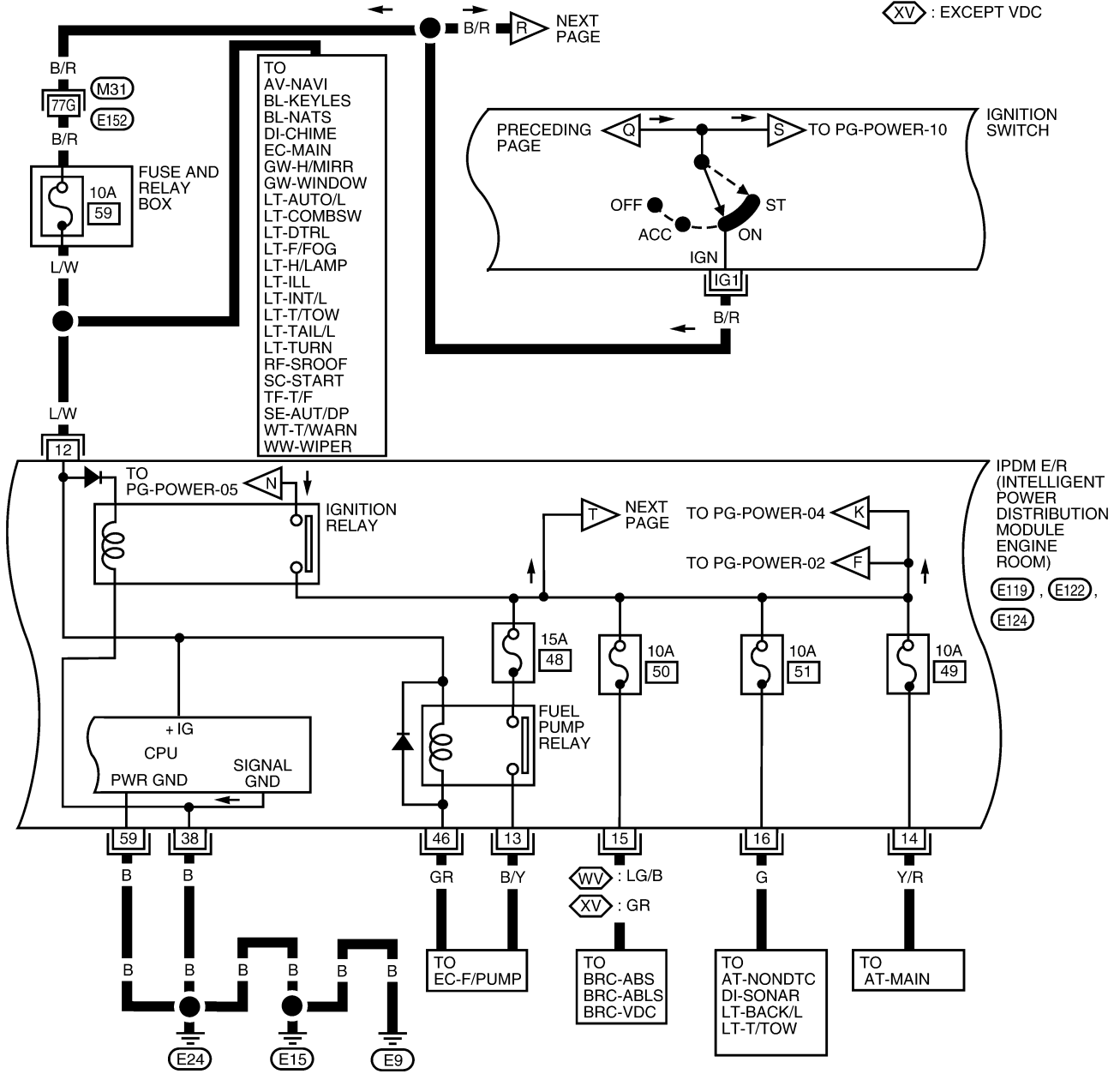
POWER SUPPLY ROUTING CIRCUIT

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

PG-POWER-08

WV : WITH VDC

XV : EXCEPT VDC



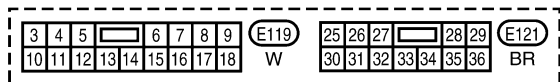
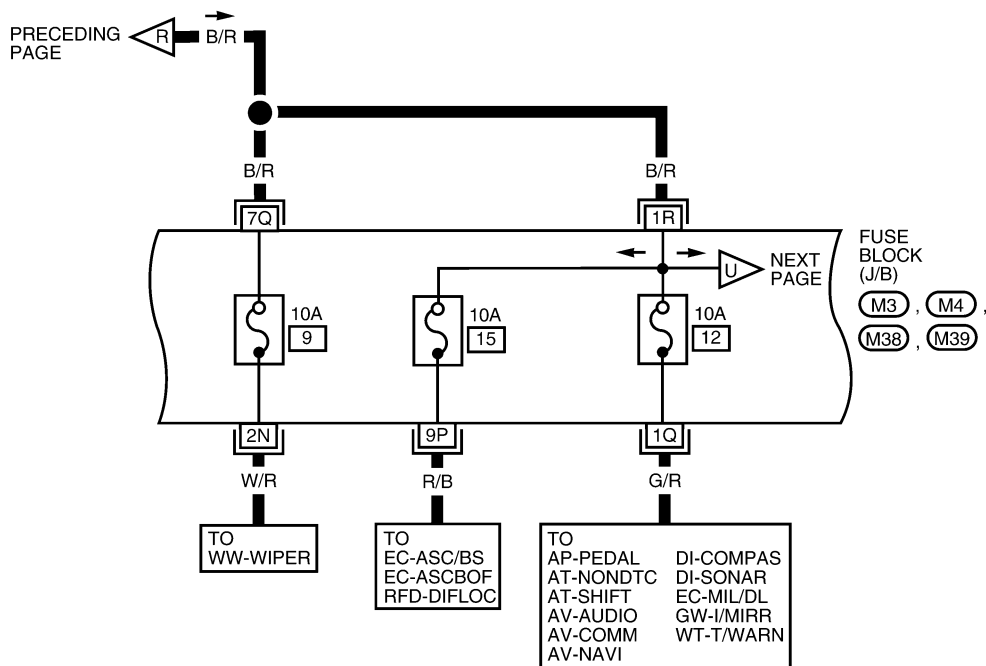
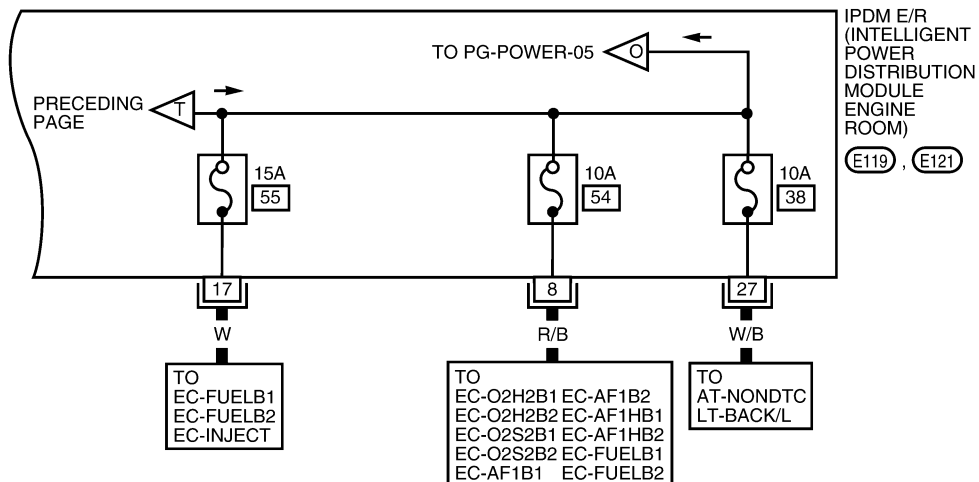
REFER TO THE FOLLOWING.

M31 - SUPER MULTIPLE JUNCTION (SMJ)

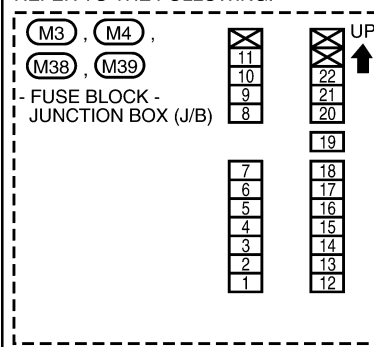
WKWA4586E

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-09



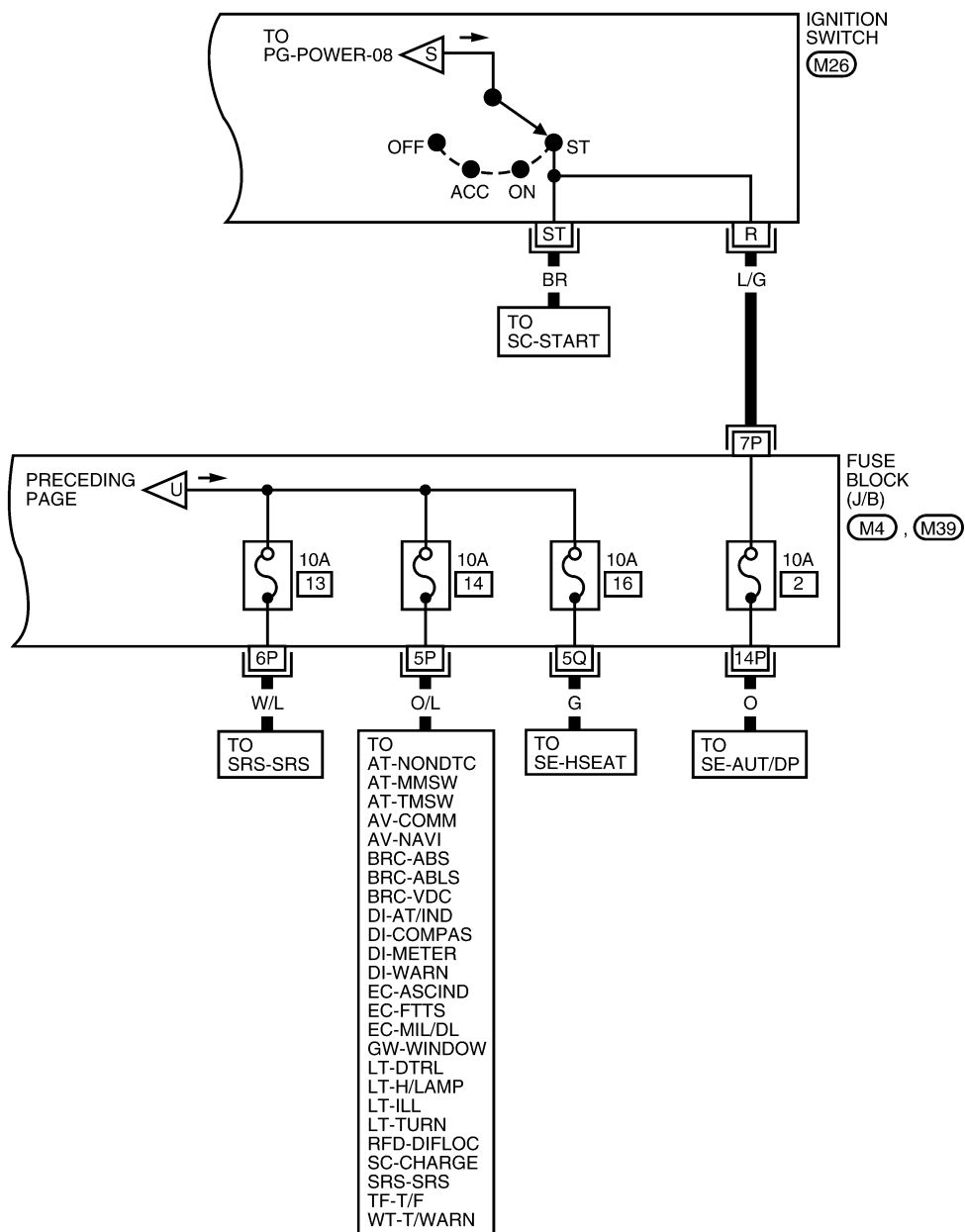
REFER TO THE FOLLOWING.



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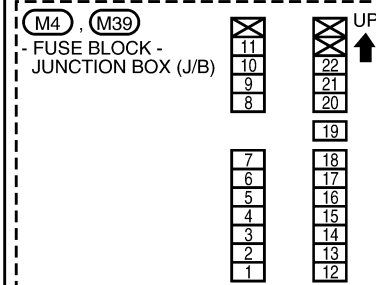
POWER SUPPLY ROUTING CIRCUIT

PG-POWER-10



IG1	ST	B	(M26) W
IG2	ACC	R	

REFER TO THE FOLLOWING.



WKWA2779E

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

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

PPF:284B7

System Description

EKS00AR8

- 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 lamps 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. Heated mirror relay control
Using CAN communication lines, it receives signals from the BCM and controls the heated mirror 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 ECM 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">● With the ignition switch ON, the headlamp (low) is ON.● With the ignition switch OFF, the headlamp (low) is OFF.
Tail and parking lamps	<ul style="list-style-type: none">● With the ignition switch ON, the tail and parking lamps are ON.● With the ignition switch OFF, the tail and parking lamps are OFF.
Cooling fan	<ul style="list-style-type: none">● With the ignition switch ON, the cooling fan HI operates.● With the ignition switch OFF, the cooling fan stops.
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
A/C compressor	A/C compressor OFF
Front fog lamps	Front fog lamp relay OFF

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

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 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

EKS00AR9

Refer to [LAN-7, "CAN COMMUNICATION"](#) .

Function of Detecting Ignition Relay Malfunction

EKS00ARA

- 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)

EKS00ARB

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

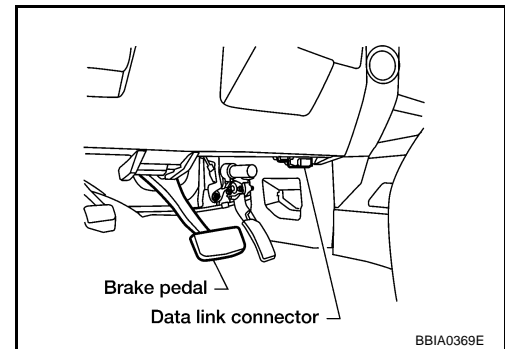
Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
ACTIVE TEST	The IPDM E/R sends a drive signal to electronic components to check their operation.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

CONSULT-II BASIC OPERATION

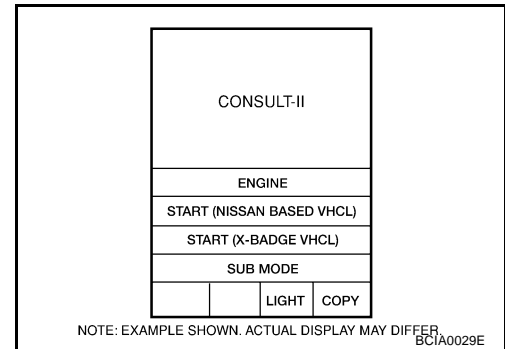
CAUTION:

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.

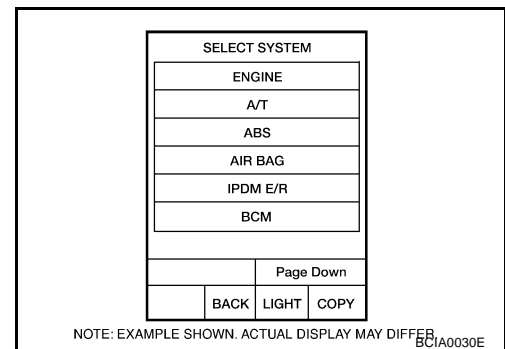
1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn ignition switch ON.



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

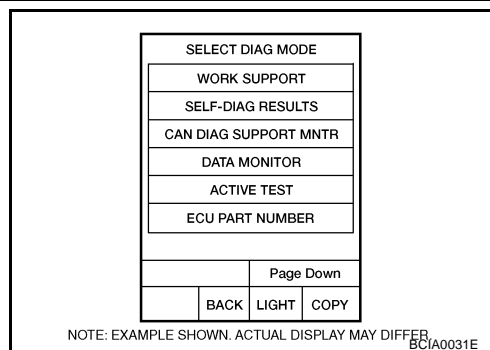


3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
 - If "IPDM E/R" is not displayed, print "SELECT SYSTEM" screen, then refer to [GI-39. "CONSULT-II Data Link Connector \(DLC\) Circuit"](#).



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

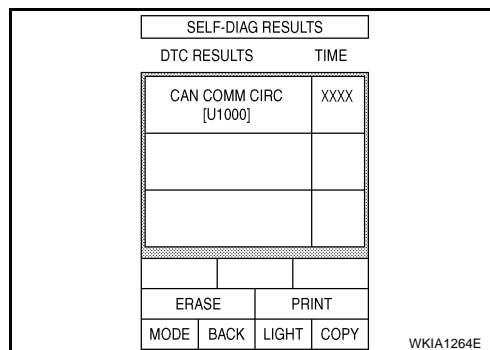
4. Select "SELF-DIAG RESULTS" or "DATA MONITOR".



SELF-DIAGNOSTIC RESULTS

Operation Procedure

1. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
2. 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"> ● If CAN communication reception/transmission data has a malfunction, or if any of the control units fail, data reception/transmission cannot be confirmed. ● When the data in CAN communication is not received before the specified time. 	X	X	Any of items listed below have errors: <ul style="list-style-type: none"> ● TRANSMIT DIAG ● ECM ● BCM/SEC

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

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

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

3. Touch "START".
4. Touch the required monitoring item on "SELECT ITEM MENU".

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

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, Select From Menu

Item name	CONSULT-II screen display	Display or unit	Monitor item selection			Description
			ALL SIGNALS	MAIN SIGNALS	SELECT 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
Tail & clear request	TAIL&CLR REQ	ON/OFF	X	X	X	Signal status input from BCM
H/L LO request	HL LO REQ	ON/OFF	X	X	X	Signal status input from BCM
H/L HI request	HL HI REQ	ON/OFF	X	X	X	Signal status input from BCM
FR fog request	FR FOG REQ	ON/OFF	X	X	X	Signal status input from BCM
FR 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 ^{NOTE}
Ignition relay status	IGN RLY	ON/OFF	X	X	X	Ignition relay status monitored with IPDM E/R
Rear defogger request (heated mirror)	RR DEF REQ	ON/OFF	X	X	X	Signal status input from BCM
Oil pressure switch	OIL P SW	OPEN/CLOSE	X		X	Signal status input from IPDM E/R (function is not enabled)
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 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.

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 heated mirror 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.
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.

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

Test name	CONSULT-II screen display	Description
Cornering lamp output	CORNERING LAMP	—
Horn output	HORN	With a certain ON-OFF operation, the horn relay can be operated.

Auto Active Test DESCRIPTION

EKS00ARC

- 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 (crew cab only)
 - Front wipers
 - Tail, parking, and license lamps
 - Front fog lamps
 - Headlamps (Hi, Lo) (Daytime light system if equipped)
 - A/C compressor (magnetic 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:

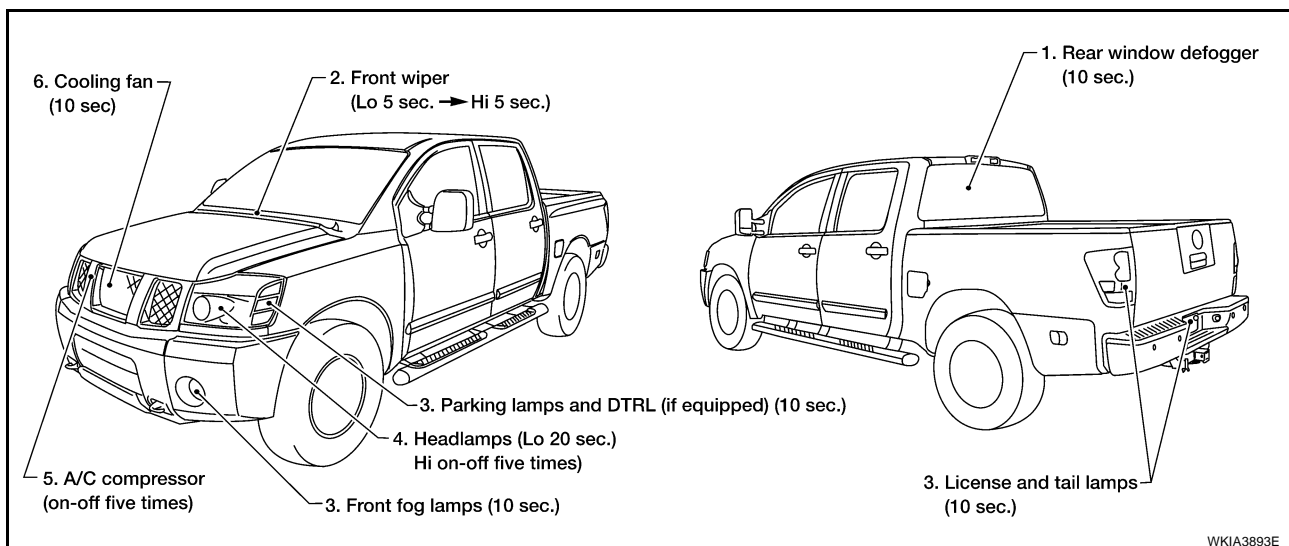
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to perform [BL-36. "Door Switch Check \(King Cab\)"](#) or [BL-38. "Door Switch Check \(Crew Cab\)"](#) when the auto active test cannot be performed.

INSPECTION IN AUTO ACTIVE TEST MODE

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



WKIA3893E

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

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.

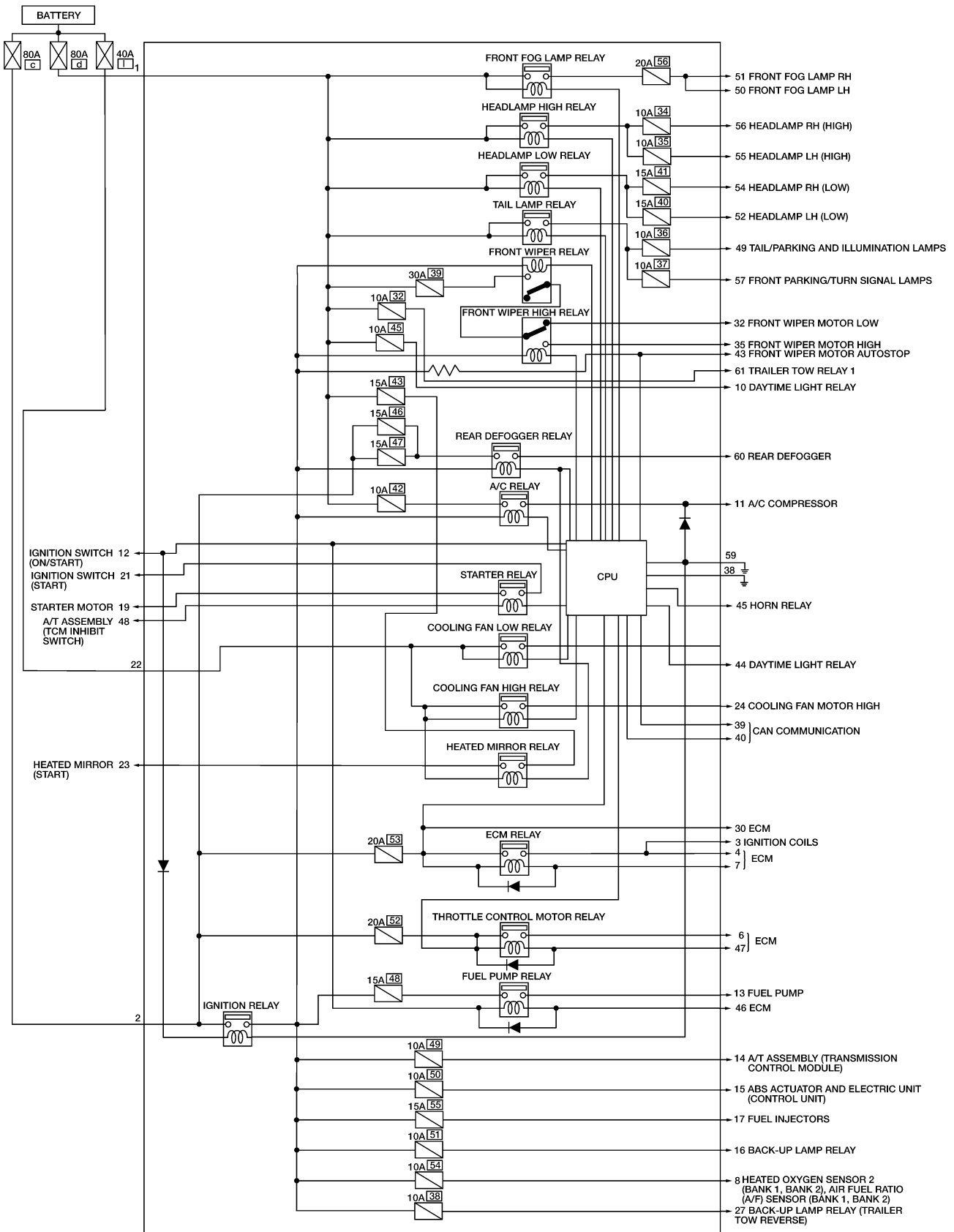
Diagnosis chart in auto active test mode

Symptom	Inspection contents	Possible cause	
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	YES	● BCM signal input system
		NO	<ul style="list-style-type: none"> ● Rear window defogger relay ● IPDM E/R malfunction ● Harness or connector malfunction between IPDM E/R and rear window defogger ● Open circuit of rear window defogger
Any of front wipers, tail and parking lamps, front fog lamps, and headlamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	YES	● BCM signal input system
		NO	<ul style="list-style-type: none"> ● 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.	Perform auto active test. Does magnetic clutch operate?	YES	<ul style="list-style-type: none"> ● BCM signal input circuit ● CAN communication signal between BCM and ECM ● CAN communication signal between ECM and IPDM E/R
		NO	<ul style="list-style-type: none"> ● Magnetic clutch malfunction ● Harness/connector malfunction between IPDM E/R and magnetic clutch ● IPDM E/R (integrated relay) malfunction
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	YES	<ul style="list-style-type: none"> ● ECM signal input circuit ● CAN communication signal between ECM and IPDM E/R
		NO	<ul style="list-style-type: none"> ● 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)

Schematic

EKS00ARD

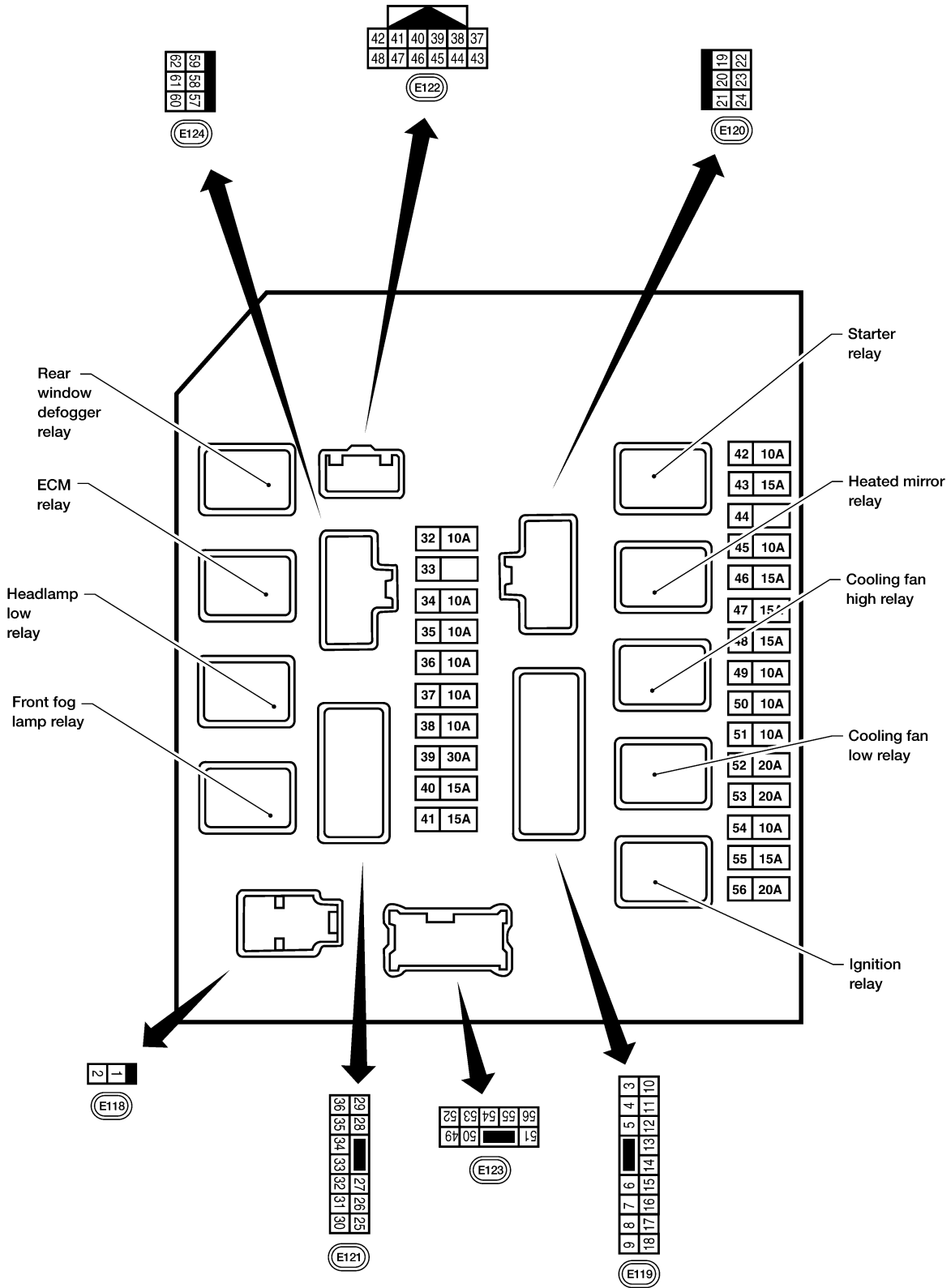


WKWA2630E

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

IPDM E/R Terminal Arrangement

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

IPDM E/R Power/Ground Circuit Inspection

EKS00ARF

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.

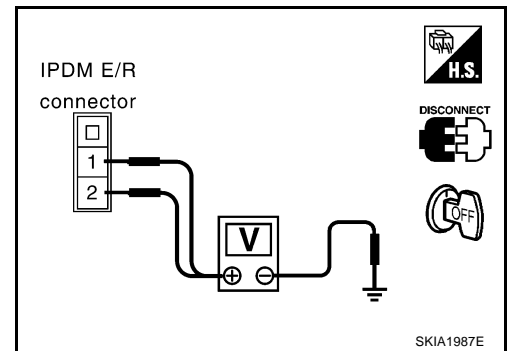
2. POWER CIRCUIT INSPECTION

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

Battery voltage should exist.

OK or NG

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



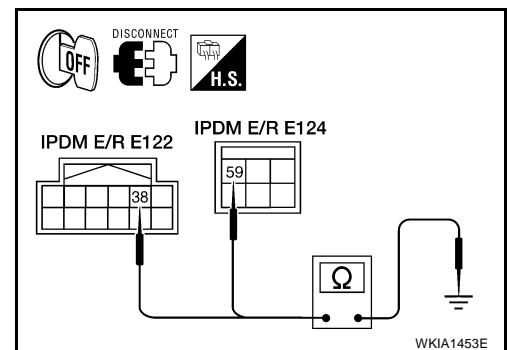
3. GROUND CIRCUIT INSPECTION

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

Continuity should exist.

OK or NG

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



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"> ● TRANSMIT DIAG ● ECM ● BCM/SEC

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-7, "CAN COMMUNICATION"](#) .

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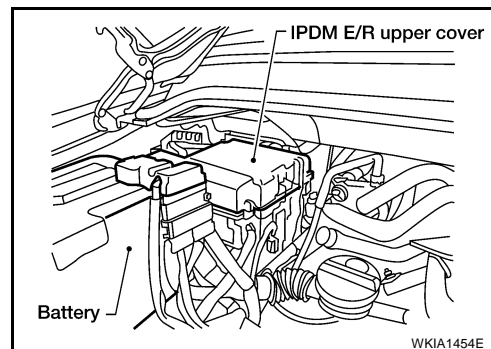
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

EKS00ARH

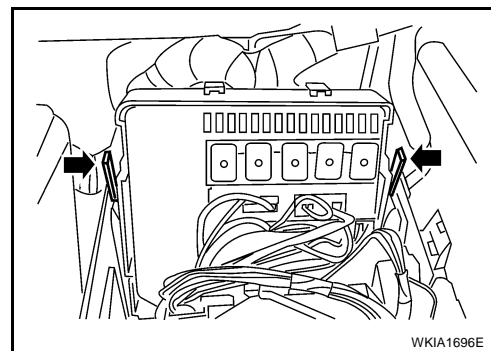
Removal and Installation of IPDM E/R

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.

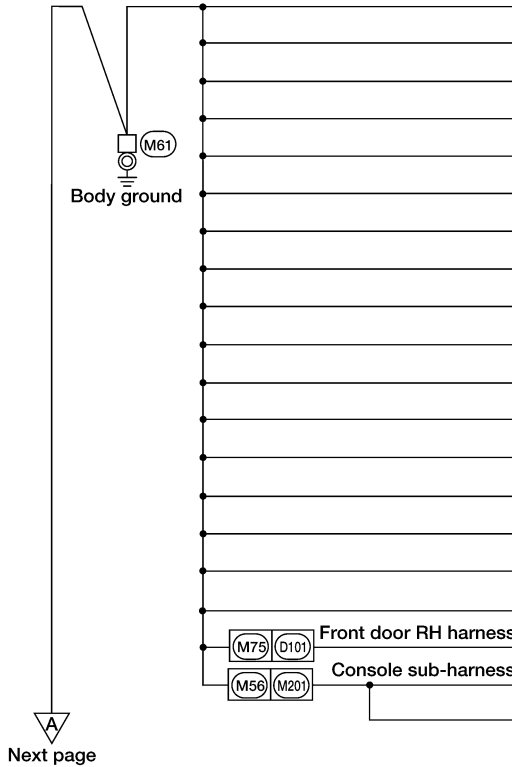
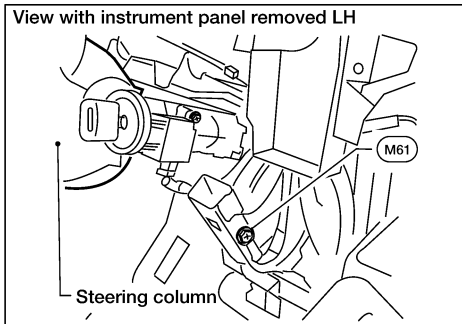
GROUND CIRCUIT

PF24080

GROUND CIRCUIT Ground Distribution MAIN HARNESS

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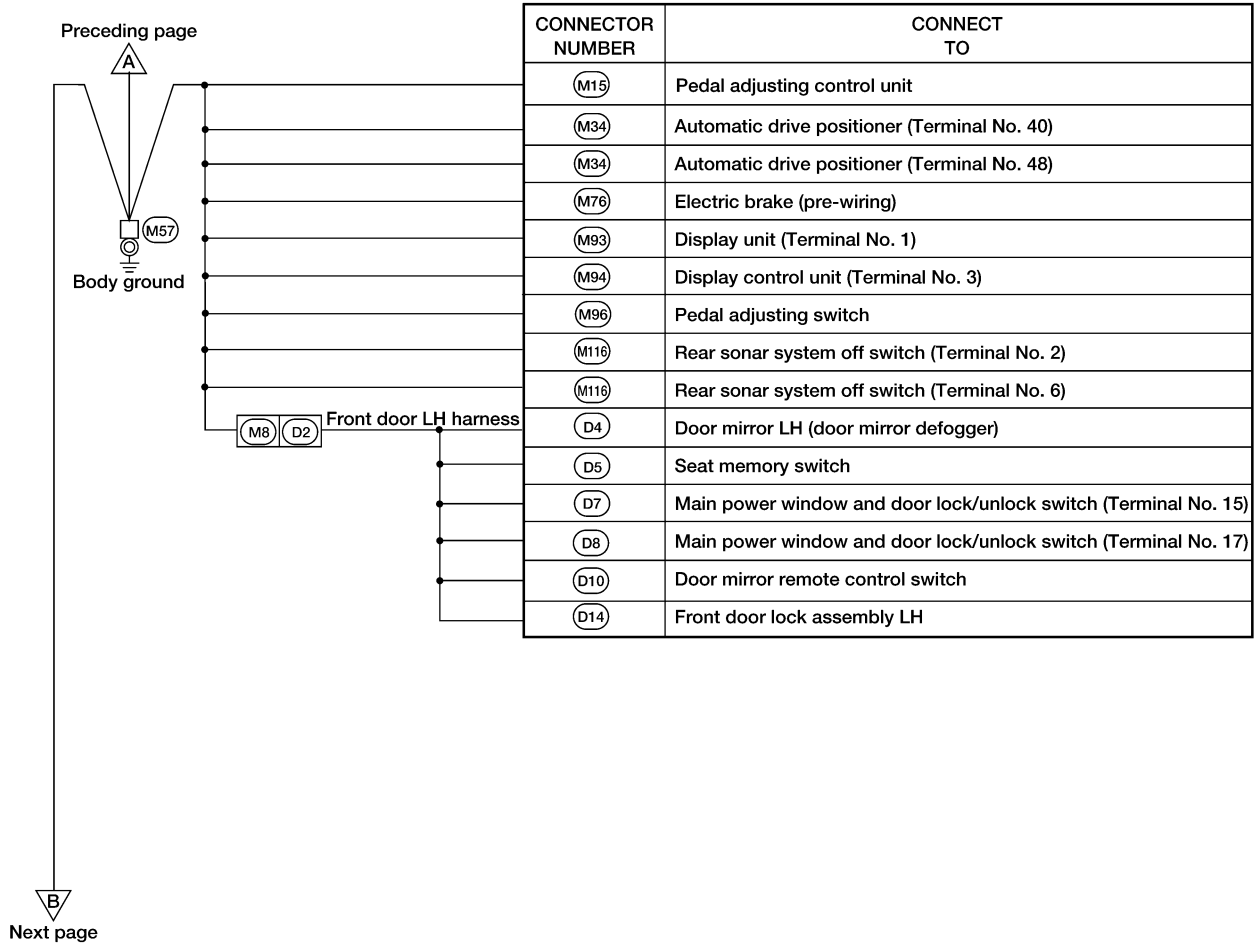
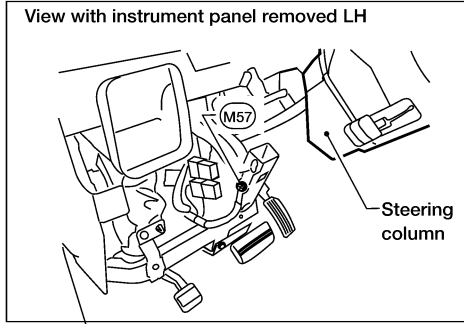


CONNECTOR NUMBER	CONNECT TO
(M5)	Illumination control switch
(M20)	BCM (Terminal 67)
(M21)	NATS antenna amp
(M22)	Data link connector (Terminal No. 4)
(M22)	Data link connector (Terminal No. 5)
(M24)	Combination meter (Terminal No. 17)
(M28)	Combination switch (Terminal No. 12)
(M35)	Air bag diagnosis sensor
(M47)	Steering angle sensor
(M68)	A/T device (Terminal No. 1) (column shift)
(M68)	A/T device (Terminal No. 2) (column shift)
(M78)	Front power socket (center armrest)
(M112)	Audio amp (Terminal No. 4)
(M113)	Audio amp (Terminal No. 20)
(M122)	Variable blower control
(M139)	Diode-1
(M151)	Condenser-3
(D107)	Door mirror RH (door mirror defogger)
(M203)	A/T device (floor shift) (Terminal No. 2)
(M203)	A/T device (floor shift) (Terminal No. 8)

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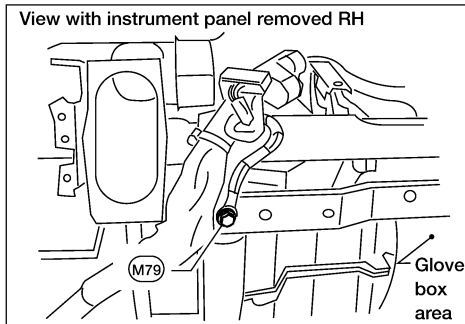
WKIA3871E

GROUND CIRCUIT

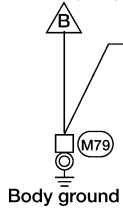


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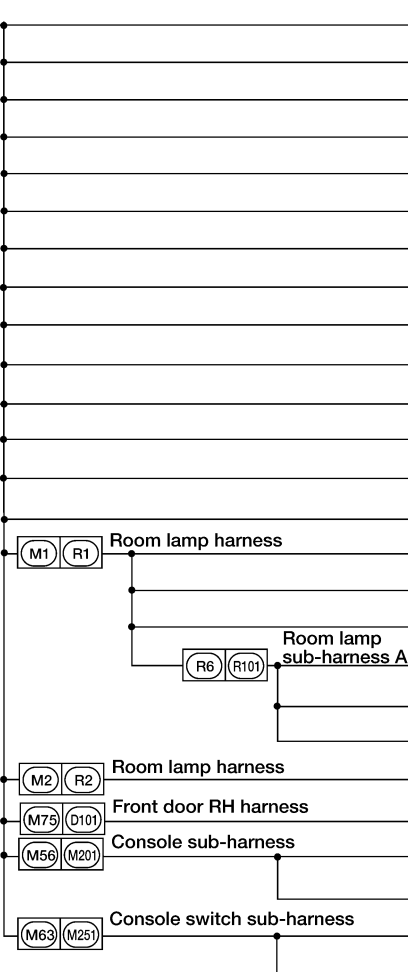
GROUND CIRCUIT



Preceding page



CONNECTOR NUMBER	CONNECT TO
(M3)	Fuse block J/B
(M6)	VDC off switch (column shift)
(M13)	Front passenger air bag off indicator
(M49)	Front air control (Terminal No. 1)
(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
(M107)	Front blower motor relay
(M148)	VDC OFF switch (floor shift)
(R3)	Vanity lamp LH
(R7)	Auto anti-dazzling inside mirror
(R8)	Vanity lamp RH
(R102)	Front room/map lamp assembly
(R105)	Compass and thermometer
(R106)	HOMELINK universal transceiver
(R4)	Sunroof motor
(D105)	Power window and door lock/unlock switch RH
(M206)	DVD player (Terminal No. 22)
(M207)	Console power socket
(M252)	Front heated seat switch RH
(M255)	Front heated seat switch LH



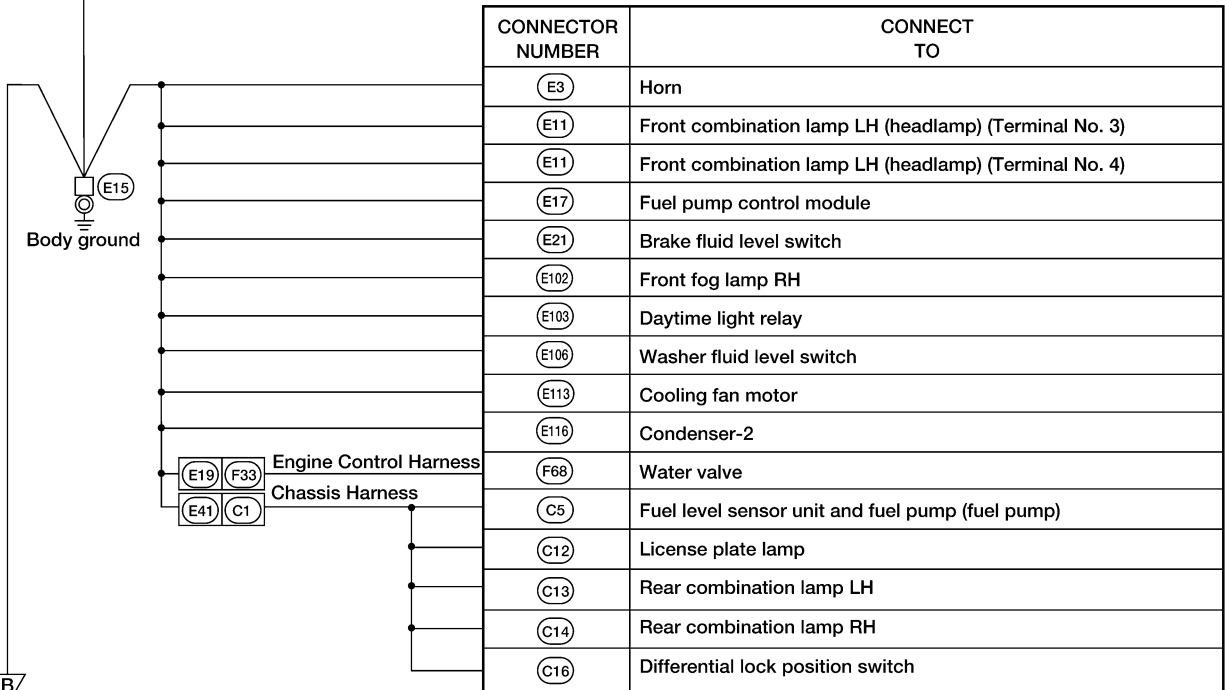
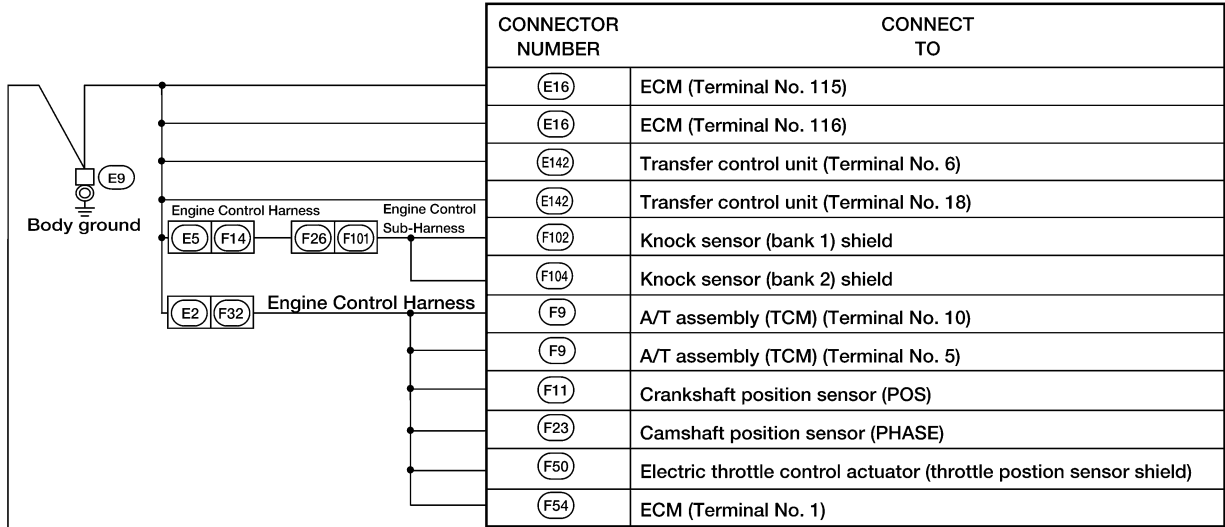
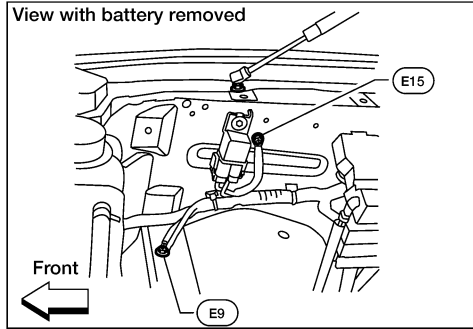
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GROUND CIRCUIT

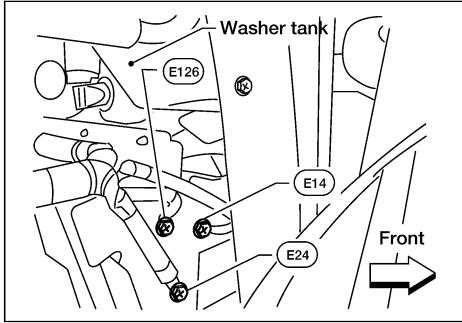
ENGINE ROOM HARNESS



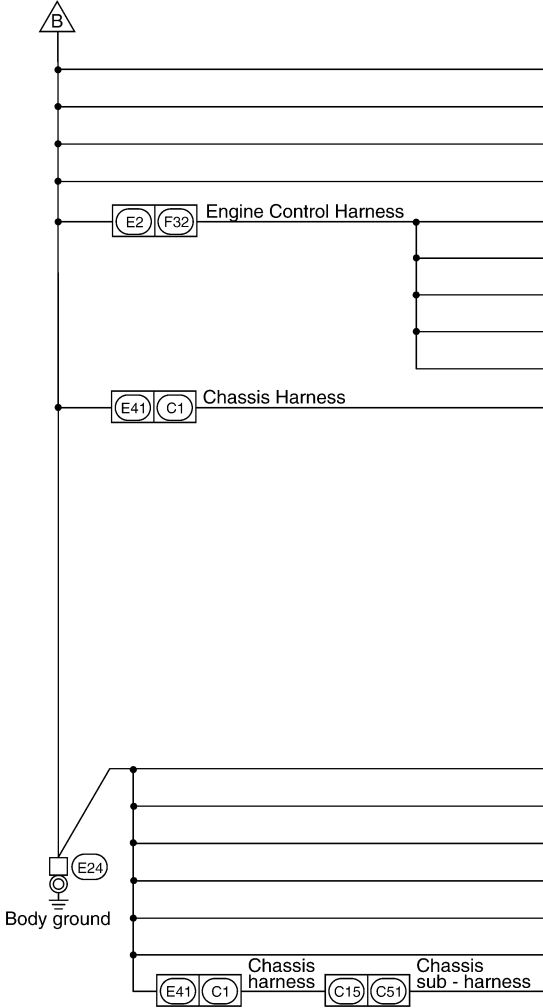
B
Next page

WKIA3852E

GROUND CIRCUIT



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CONNECTOR NUMBER	CONNECT TO
(E46)	Transfer shift relay 1 (Terminal No. 1)
(E140)	Trailer tow relay 2
(E143)	Transfer control unit (Terminal No. 32)
(E148)	Trailer tow relay 1
(F55)	ATP switch
(F57)	Transfer motor
(F58)	Transfer control device (Terminal No. 22)
(F59)	Wait detection switch
(F60)	4LO switch
(C2)	Trailer

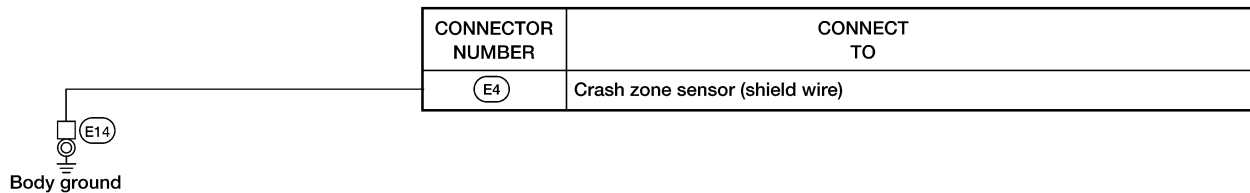
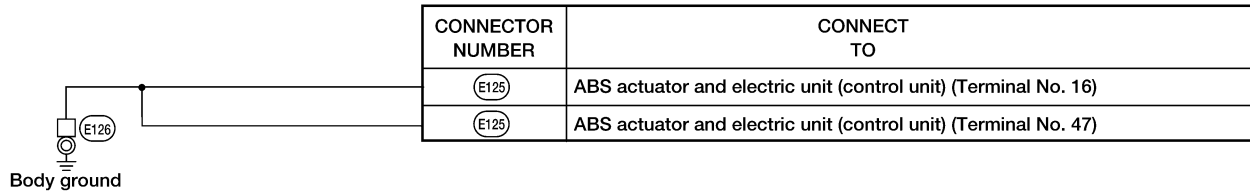
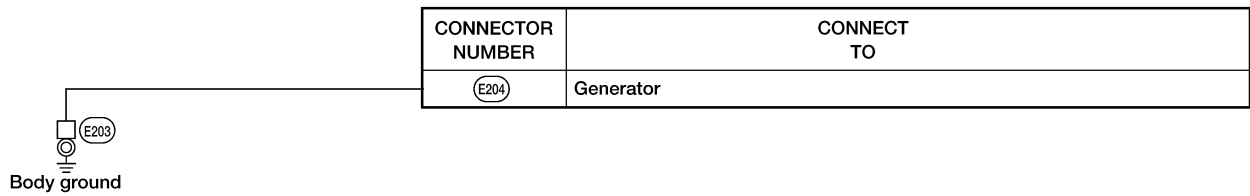
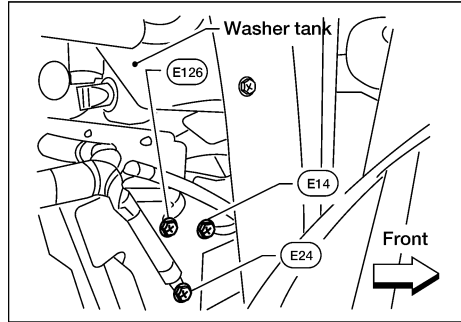
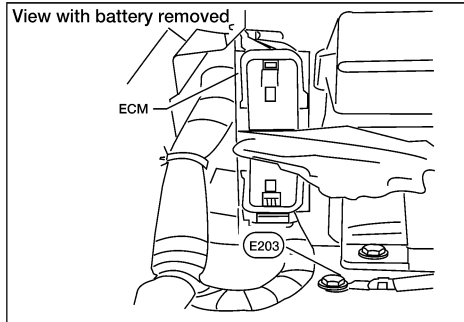
CONNECTOR NUMBER	CONNECT TO
(E23)	Front wiper motor
(E101)	Front fog lamp LH
(E107)	Front combination lamp RH (headlamp) (Terminal No. 3)
(E107)	Front combination lamp RH (headlamp) (Terminal No. 4)
(E122)	IPDM E/R
(E124)	IPDM E/R
(C52)	Rear cargo bed power socket

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WKIA3875E

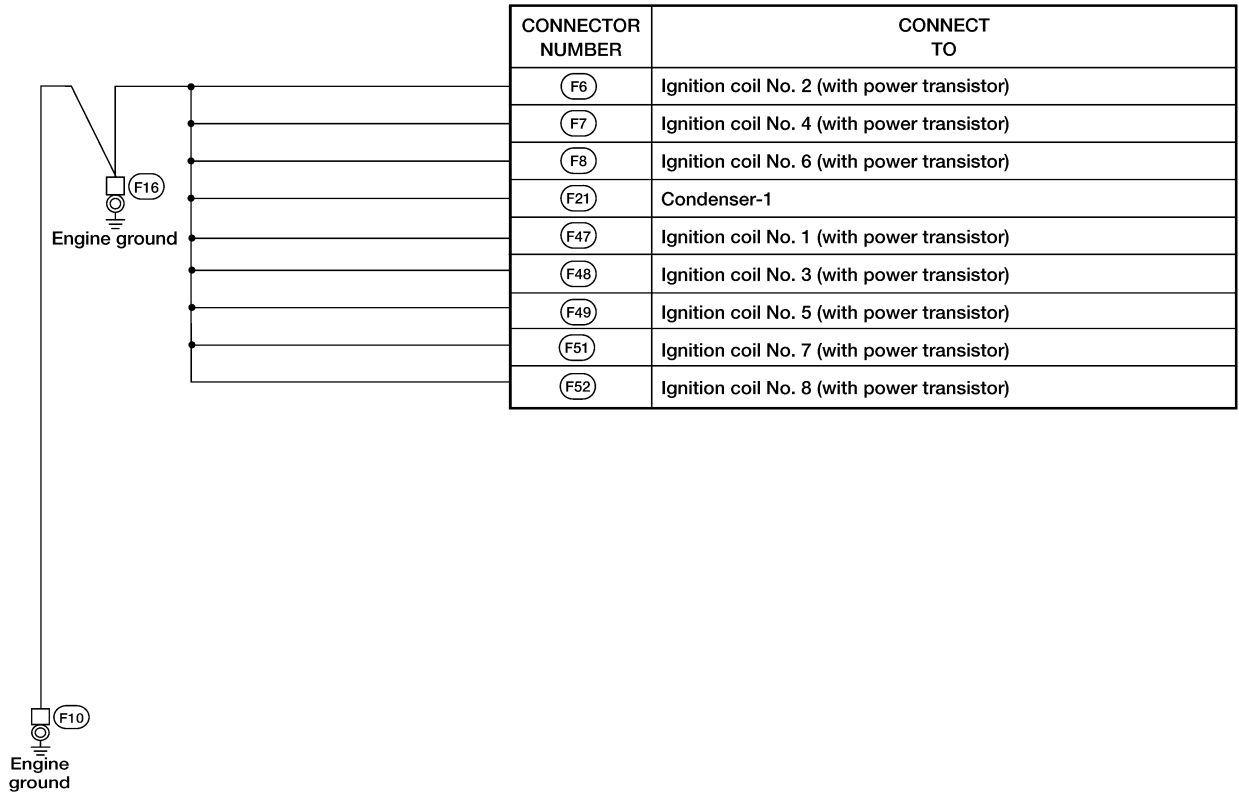
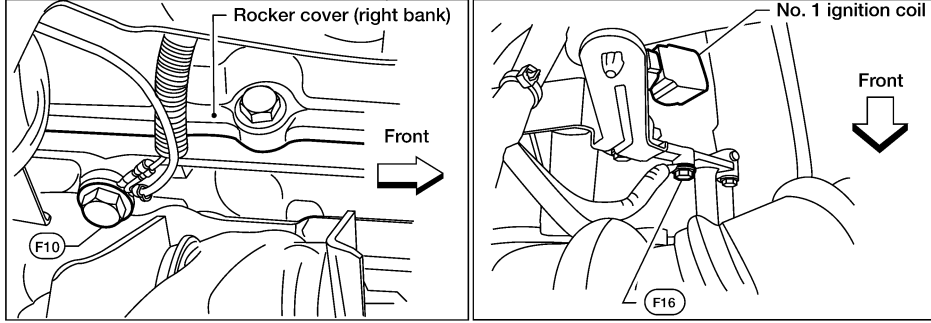
GROUND CIRCUIT



WKIA3876E

GROUND CIRCUIT

ENGINE CONTROL HARNESS



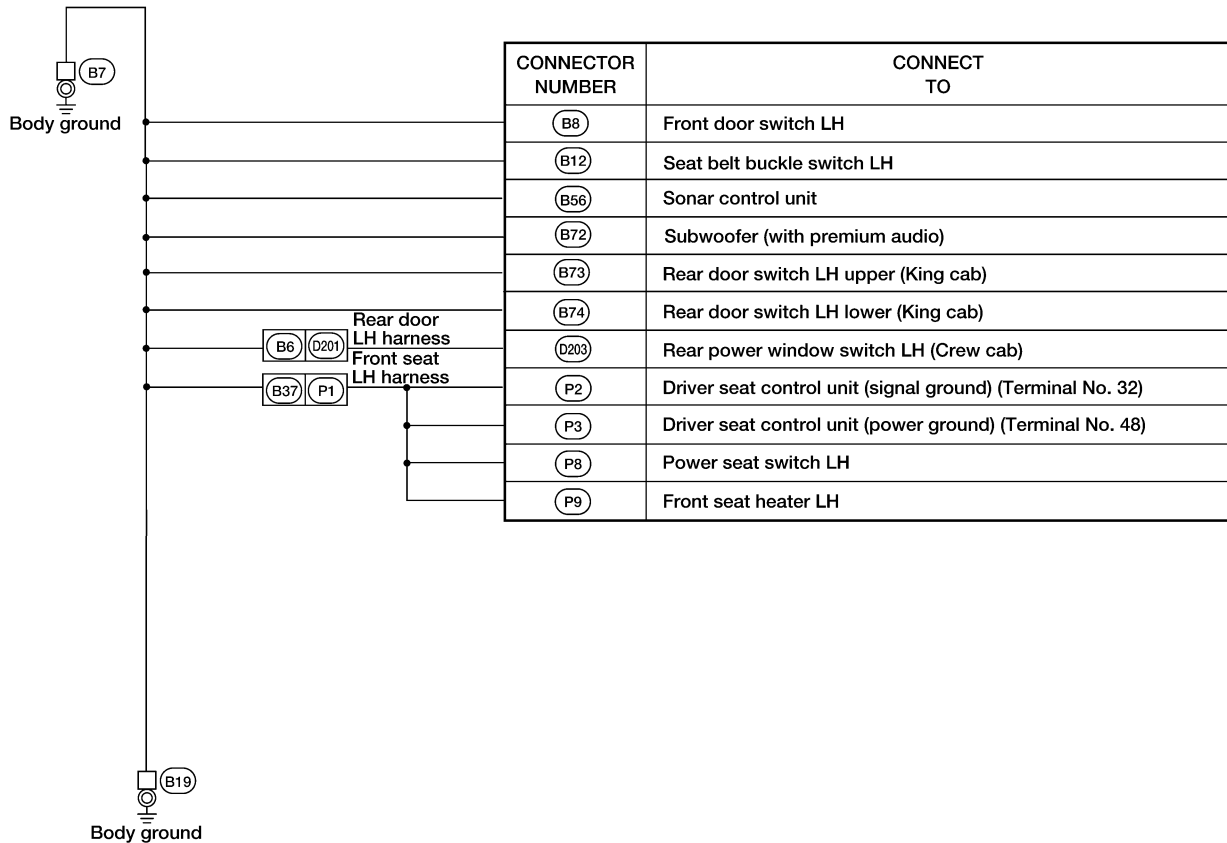
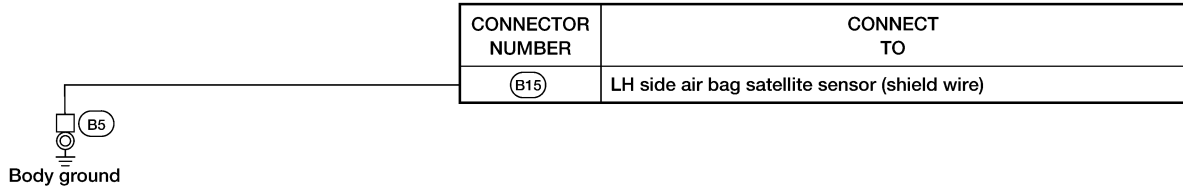
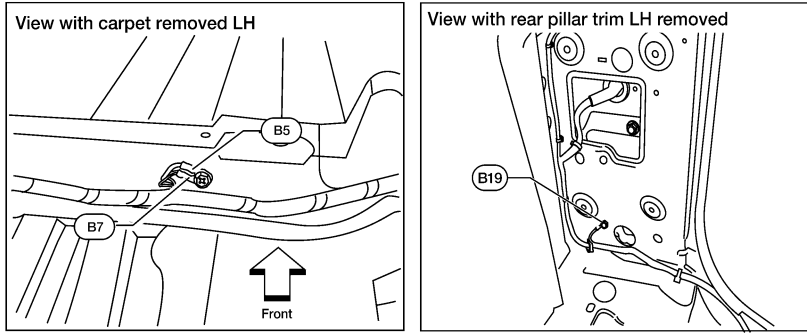
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GROUND CIRCUIT

BODY HARNESS

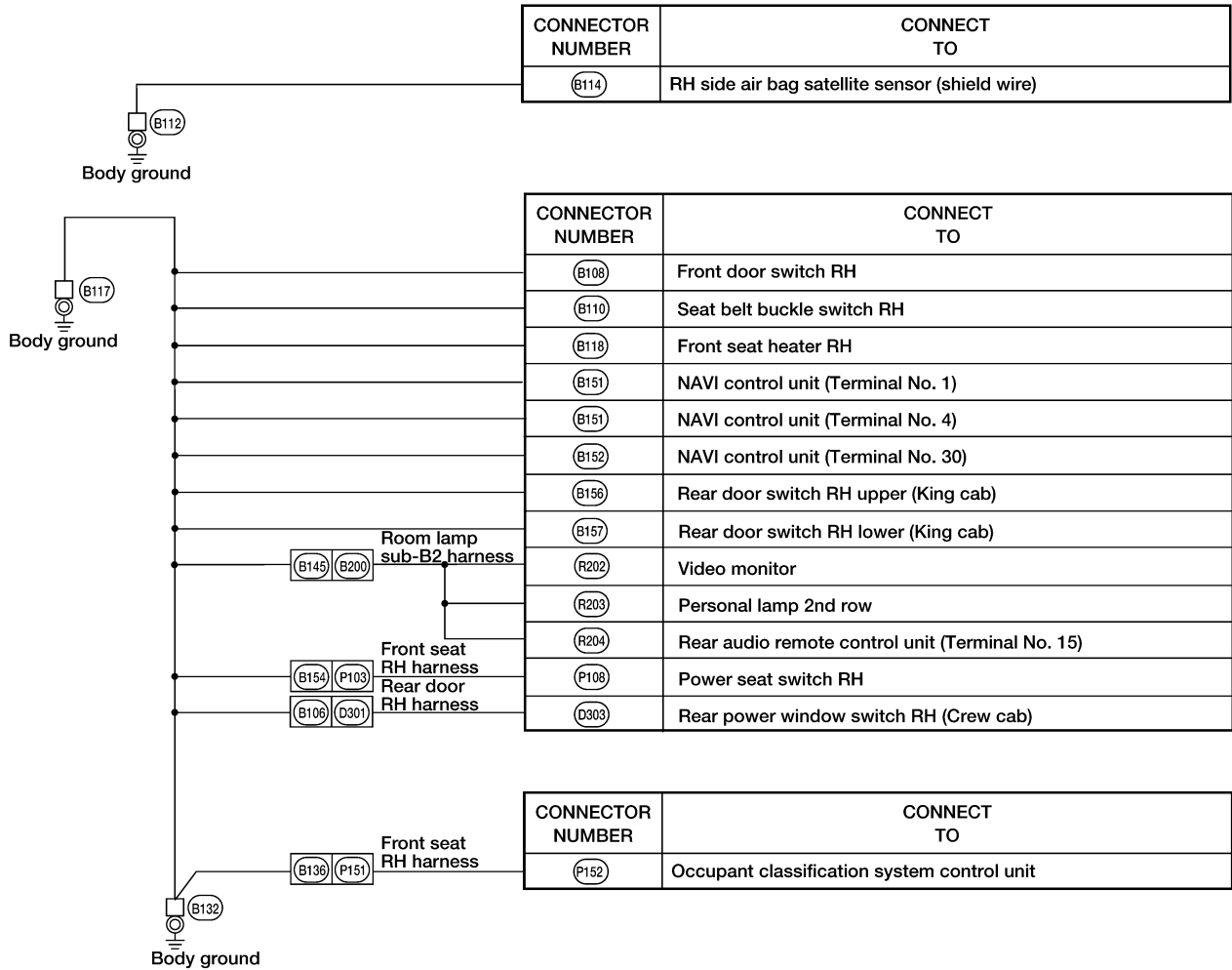
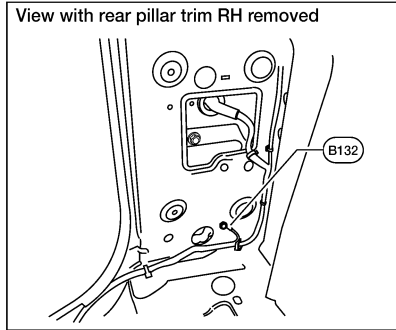
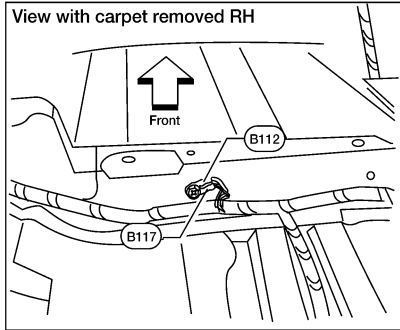


WKIA3878E

GROUND CIRCUIT

BODY NO. 2 HARNESS

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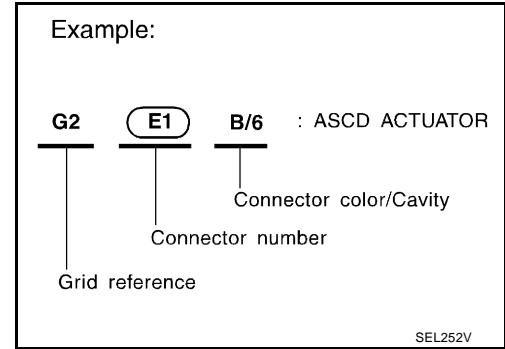
HARNESS

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, Console Sub-harness, Console Switch Sub-harness and Optical Sensor Sub-harness
- Engine Room Harness LH View (Engine Compartment)
- Engine Room Harness RH View (Engine Compartment) and Generator Sub-harness
- Engine Control Harness and Engine Control Sub-harness
- Chassis Harness, Rear Power Socket Sub-harness and Rear Sonar Sensor Sub-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)
















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.

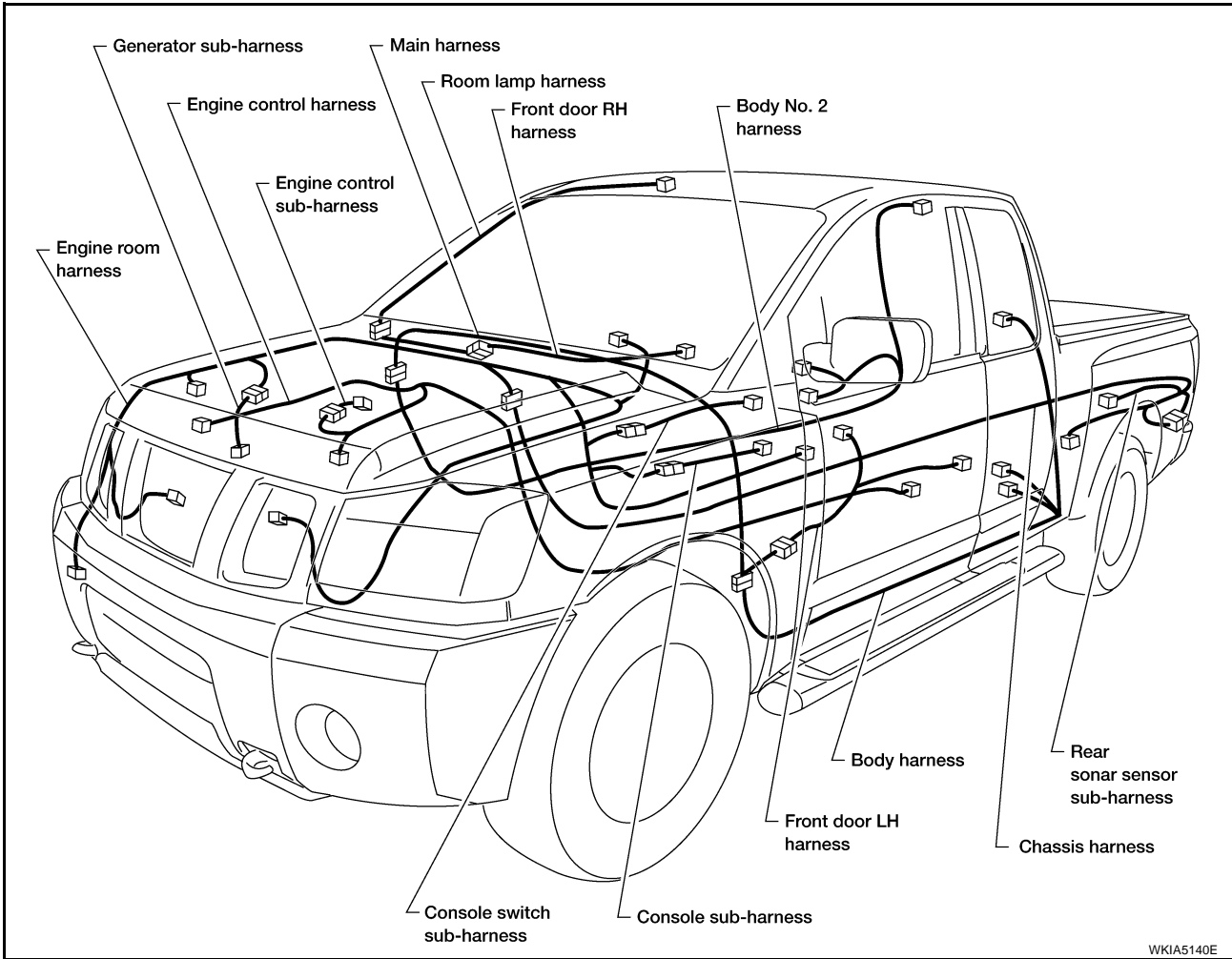
CONNECTOR SYMBOL

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

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

HARNESS

OUTLINE (KING CAB MODELS)



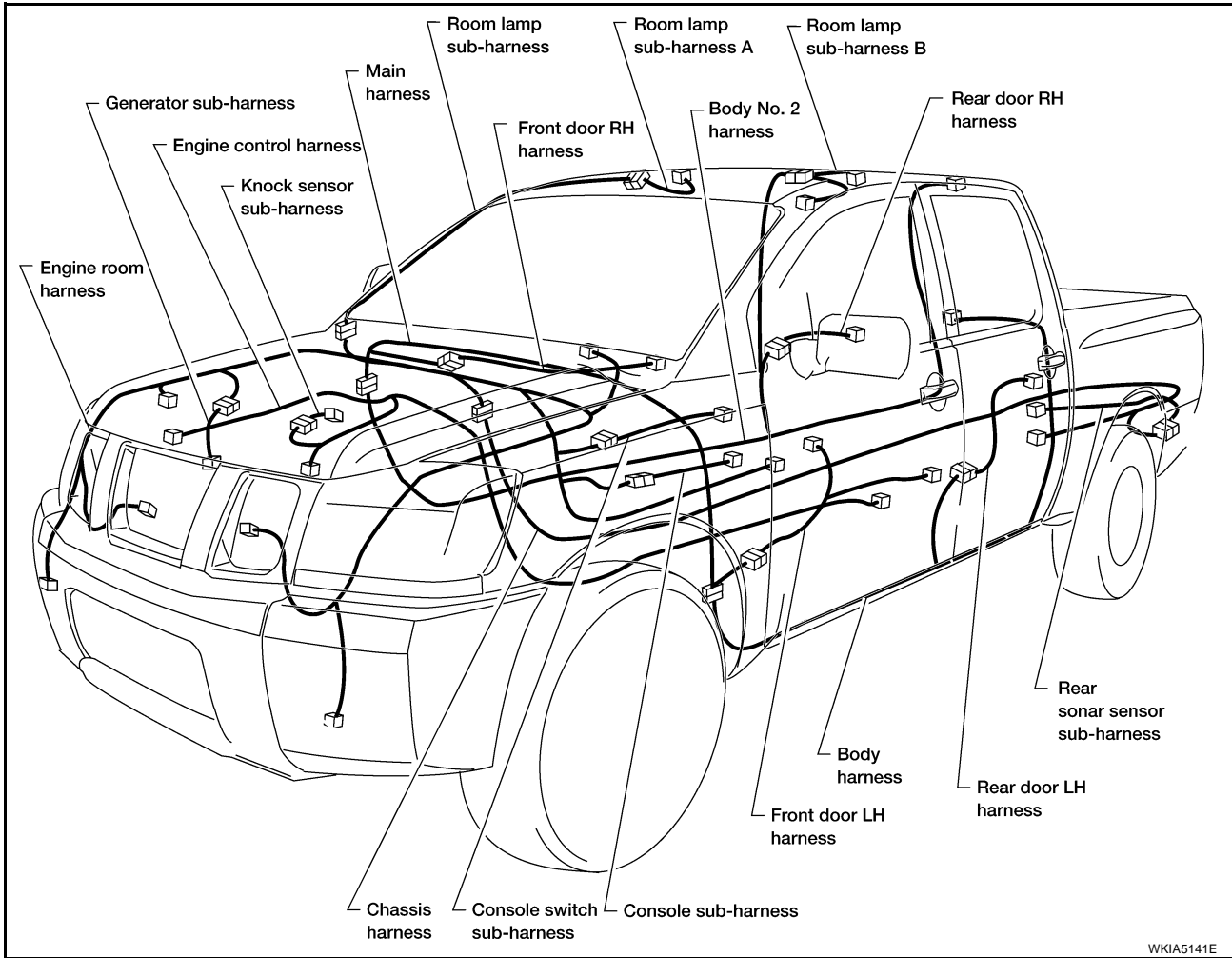
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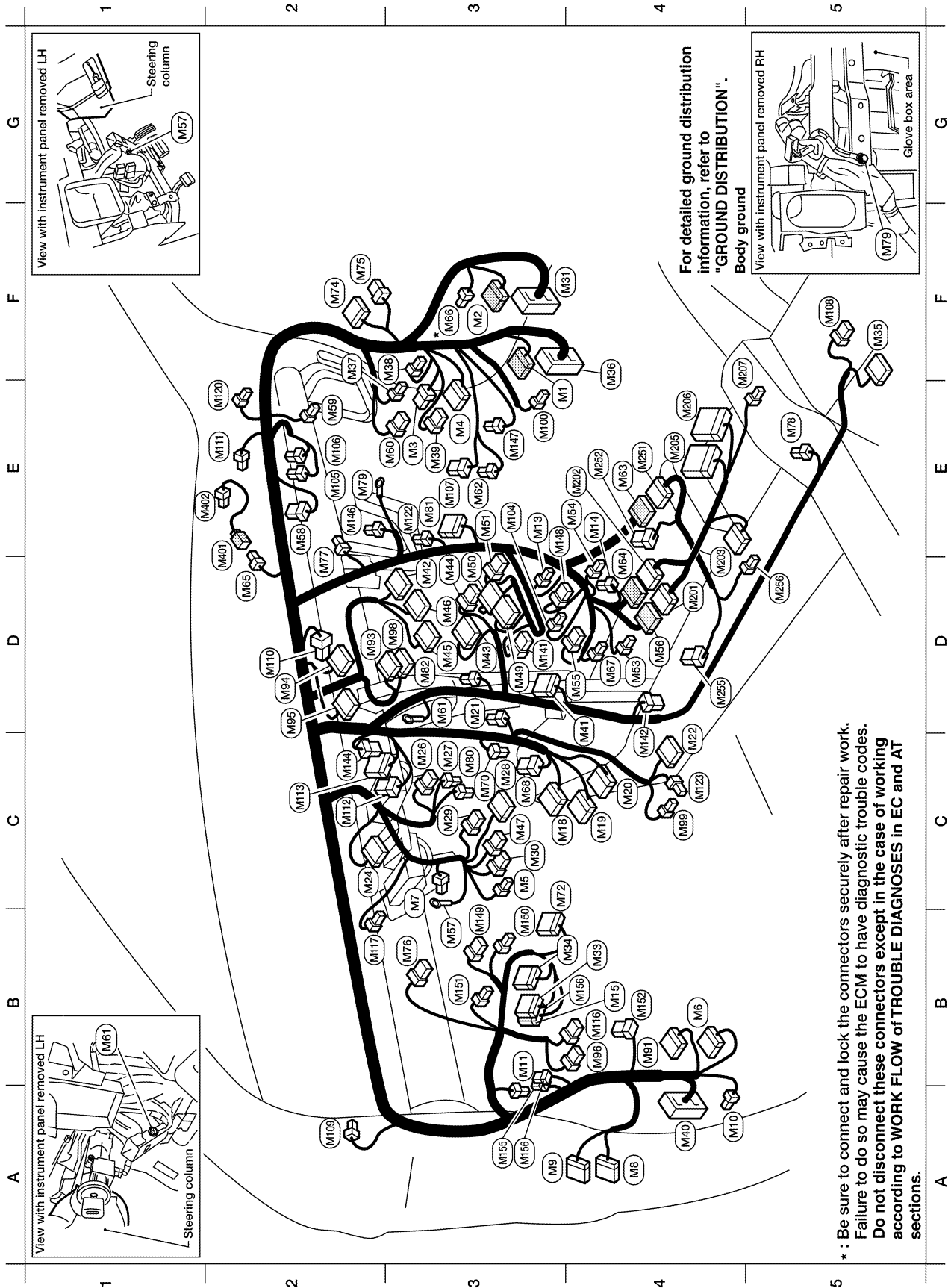
HARNESS

OUTLINE (CREW CAB MODELS)



HARNESS

MAIN HARNESS



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

WKIA5142E

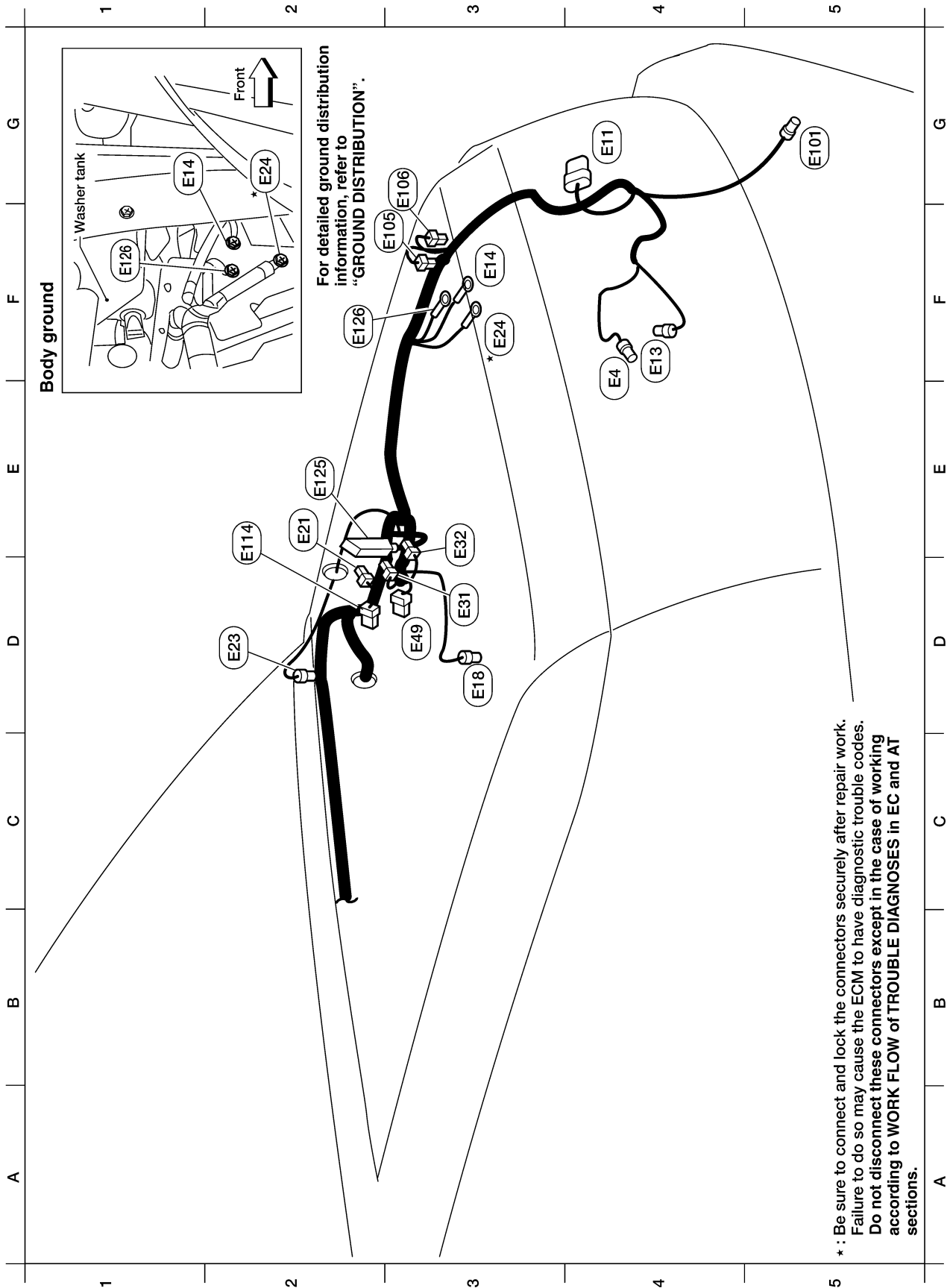
HARNESS

E4 (M1)	W/16	: To (R1)	C3 (M47)	W/8	: Steering angle sensor	E3 (M107)	B/5	: Front blower motor relay
F3 (M2)	W/12	: To (R2) (with sunroof)	D3 (M49)	B/26	: Front air control	F5 (M108)	B/6	: Yaw rate/side/decel G-sensor (VDC)
E3 (M3)	W/8	: Fuse block (J/B)	D3 (M50)	W/18	: Front air control	A2 (M109)	BR/2	: Front tweeter LH
E3 (M4)	W/16	: Fuse block (J/B)	D4 (M53)	B/2	: Front power socket LH	D2 (M110)	BR/2	: Center speaker (with premium audio)
C3 (M5)	W/3	: Illumination control switch	E3 (M54)	B/2	: Front power socket RH (for cigarette lighter)	E2 (M111)	BR/2	: Front tweeter RH
B4 (M6)	W/10	: To (E10)	D4 (M55)	W/8	: Hazard switch	C2 (M112)	W/8	: Audio amplifier (with premium audio)
B3 (M7)	L/5	: Water valve relay	D4 (M56)	W/16	: To (M20) (floor shift)	C2 (M113)	L/24	: Audio amplifier (with premium audio)
A4 (M8)	W/16	: To (D2)	B3 (M57)	-	: Body ground	B4 (M116)	GR/8	: Rear sonar system OFF switch
A4 (M9)	BR/24	: To (D1)	E2 (M58)	B/6	: Intake door motor	B2 (M117)	B/2	: Sonar buzzer
A4 (M10)	Y/4	: To (E29)	E2 (M59)	BR/2	: Glove box lamp	E2 (M120)	W/4	: Remote keyless entry receiver
B3 (M11)	B/1	: Parking brake switch	E2 (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
E4 (M14)	W/2	: Front power socket (center armrest)	E3 (M62)	B/2	: Front blower motor	D3 (M141)	W/8	: 4WD shift switch
B4 (M15)	W/16	: Pedal adjusting control unit	D2 (M63)	W/4	: To (M40)	C4 (M142)	B/6	: Mode door motor
C3 (M18)	W/40	: BCM (body control module)	F3 (M68)	B/1	: To (E33)	C2 (M144)	B/6	: Defroster door motor
C4 (M19)	W/15	: BCM (body control module)	D4 (M67)	GR/8	: Tow mode switch	E2 (M146)	W/2	: Intake sensor
C4 (M20)	B/15	: BCM (body control module)	C3 (M68)	W/8	: A/T device (column shift)	E3 (M147)	B/6	: Air mix door motor (front)
D3 (M21)	W/4	: NATS antenna amplifier	C3 (M70)	W/2	: Condenser-3	D3 (M149)	GR/6	: VDC OFF switch
C4 (M22)	W/16	: Data link connector	C4 (M72)	W/6	: Differential lock mode switch	B3 (M149)	W/6	: Cargo lamp switch
D3 (M23)	W/2	: Diode-1	F2 (M74)	BR/20	: To (E102)	B3 (M150)	L/4	: Cargo lamp relay
C2 (M24)	W/40	: Combination meter	F2 (M75)	W/8	: To (E101)	B4 (M152)	L/5	: Rear window defogger cut-off relay
C3 (M26)	W/6	: Ignition switch	B3 (M76)	W/6	: Electric brake (pre-wiring)	B4 (M154)	B/5	: Rear power drop glass up relay
C3 (M27)	W/4	: Key switch/key lock sol (floor shift)	D2 (M77)	Y/4	: Front pass air bag module (service replacement)	A3 (M155)	B/5	: Rear power drop glass down relay
C3 (M28)	W/16	: Combination switch	E5 (M78)	W/2	: Armrest power socket (bench seat)	A3 (M156)	W/6	: Rear power drop glass switch
C3 (M29)	Y/6	: Combination switch (spiral cable)	E2 (M79)	-	: Body ground	Console sub-harness		
C3 (M30)	GR/8	: Combination switch (spiral cable)	C3 (M80)	W/2	: Key switch (column shift)	D4 (M201)	W/16	: To (M56)
F4 (M31)	SMJ	: To (E152)	E3 (M81)	GR/10	: Shift lock control unit (floor shift)	E4 (M202)	BR/24	: To (M64)
B4 (M33)	W/32	: Automatic drive positioner control unit	D3 (M82)	W/2	: Circuit breaker -2	D4 (M203)	W/12	: A/T device (floor shift)
B4 (M34)	W/16	: Automatic drive positioner control unit	B4 (M81)	W/16	: To (E28)	E4 (M205)	GR/16	: DVD player
F5 (M35)	Y/28	: Air bag diagnosis sensor unit	D2 (M83)	W/24	: Display unit (with NAVI)	E4 (M206)	L/16	: DVD player
F4 (M36)	SMJ	: To (E149)	D2 (M84)	W/24	: Display control unit (with NAVI)	F5 (M207)	B/2	: Console power socket
E2 (M37)	B/1	: Fuse block (J/B)	D2 (M85)	W/32	: Display control unit (with NAVI)	Console switch sub-harness		
E3 (M38)	B/2	: Fuse block (J/B)	B4 (M86)	BR/6	: Pedal adjusting switch	E4 (M251)	BR/20	: To (M63)
E3 (M39)	W/8	: Fuse block (J/B)	D3 (M88)	W/24	: AV switch	E4 (M252)	BR/6	: Heated seat switch (passenger)
A4 (M40)	SMJ	: To (E59)	C4 (M89)	BR/2	: Foot lamp LH	D4 (M255)	BR/6	: Heated seat switch (driver)
C4 (M41)	W/16	: Satellite radio tuner (pre-wiring)	E3 (M90)	BR/2	: Foot lamp RH	D5 (M256)	B/2	: A/T device illumination (floor shift)
D3 (M42)	W/12	: Audio unit	E3 (M94)	W/4	: Auxiliary in jack (audio)	Optical sensor sub-harness		
D3 (M43)	W/10	: Audio unit	E2 (M95)	Y/2	: Front passenger air bag module	D2 (M401)	W/4	: To (M65)
D3 (M44)	W/6	: Audio unit	E2 (M96)	O/2	: Front passenger air bag module	E2 (M402)	B/4	: Optical sensor
D3 (M45)	W/16	: Audio unit	E2 (M98)			*: Refer to previous page		
D3 (M46)	W/20	: Audio unit						

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.

WKIA3882E

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

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HARNESS

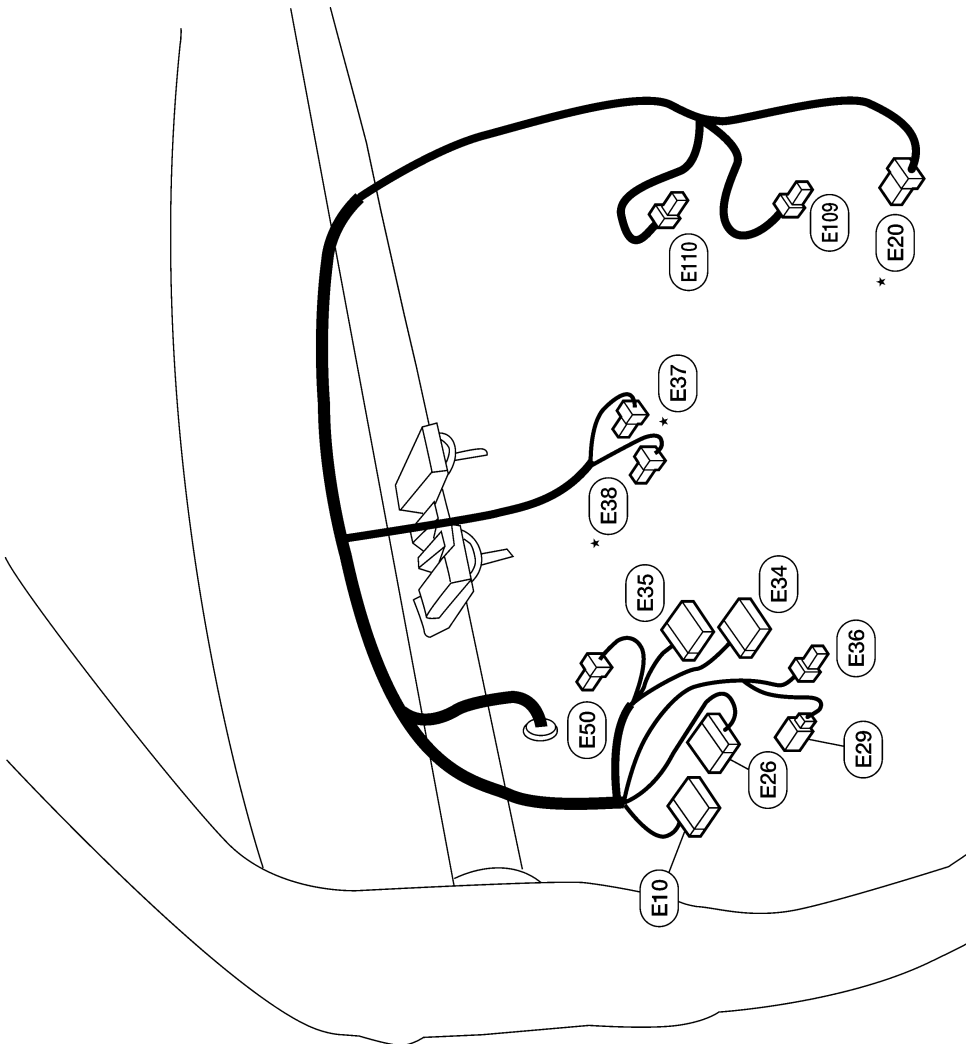
E4	(E4)	Y/2	: Crash zone sensor
G4	(E11)	B/6	: Front combination lamp LH
F4	(E13)	GR/2	: Ambient sensor 2
F3	(E14)	-	: Body ground
D3	(E18)	GR/2	: Front wheel sensor LH
E2	(E21)	GR/2	: Brake fluid level switch
D2	(E23)	GR/6	: Front wiper motor
F3	*(E24)	-	: Body ground
D3	(E31)	B/3	: Front pressure sensor
E3	(E32)	B/3	: Rear pressure sensor
D3	(E49)	B/6	: Active booster
G5	(E101)	B/2	: Front fog lamp LH
F3	(E105)	GR/2	: Washer motor
G3	(E106)	BR/2	: Washer fluid level switch
E2	(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.

HARNESS

Passenger Compartment

- (E10) W/10 : To (M6)
- * (E20) B/8 : Accelerator pedal position (APP) sensor
- (E26) W/16 : To (M9)
- (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
- * (E38) W/4 : Stop lamp switch (column shift)
- * (E38) B/2 : Stop lamp switch (floor shift)
- (E60) BR/2 : To (B75)
- (E109) GR/2 : Pedal adjusting motor
- (E110) W/3 : Pedal adjusting motor



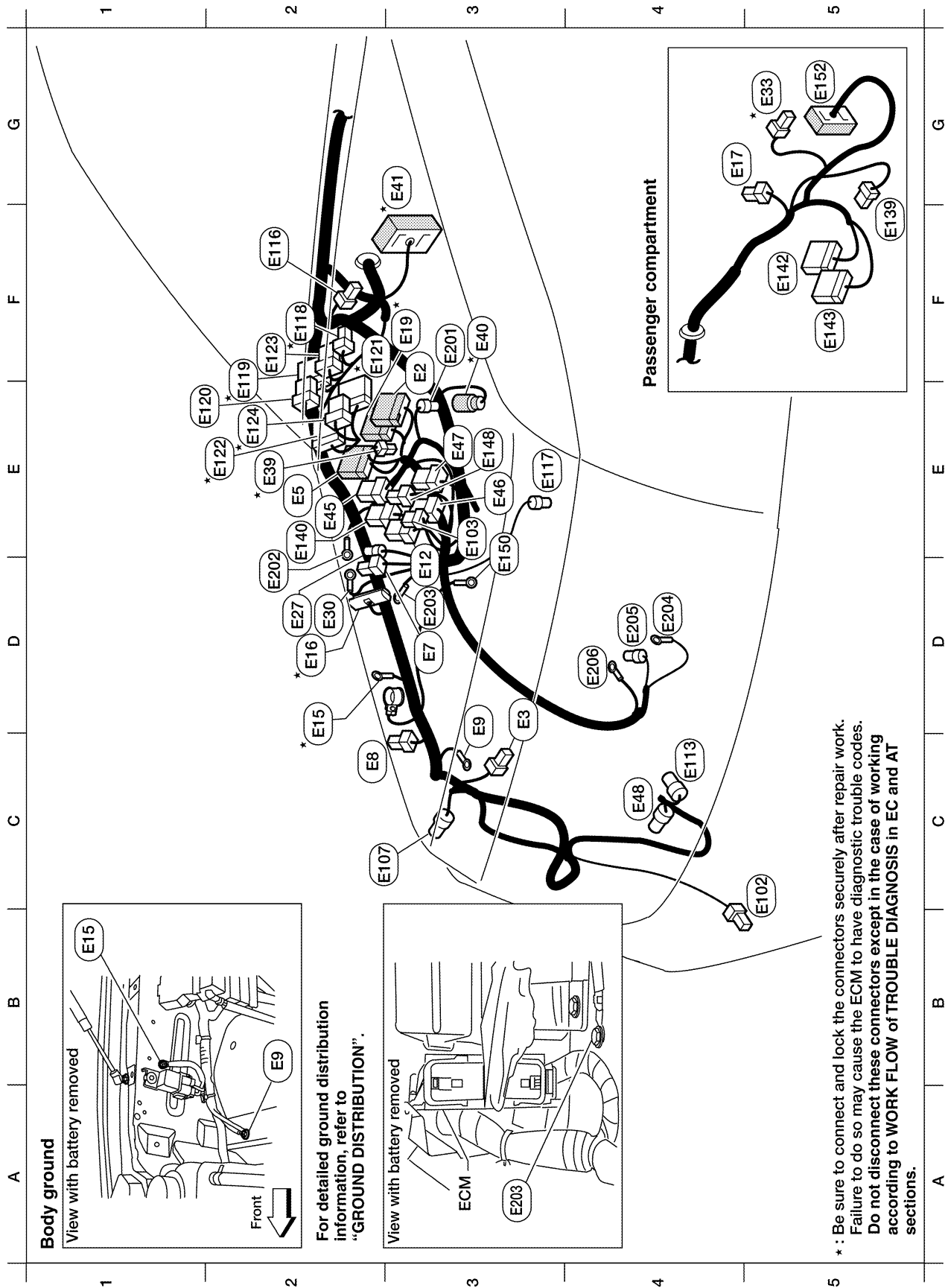
* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
 Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

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HARNESS

ENGINE ROOM HARNESS (RH VIEW)

Engine Compartment



Refer to [PG-43, "ENGINE ROOM HARNESS \(LH VIEW\)"](#) for continuation of engine room harness.

WKIA5144E

F2 * (E116) 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)
 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)
 F5 (E139) W/8 : To (E107)
 E2 (E140) BR/6 : Trailer tow relay 2
 F5 (E142) W/26 : Transfer control unit
 F5 (E143) W/24 : Transfer control unit
 E3 (E148) L/4 : Trailer tow relay 1
 E3 (E150) - : Battery ground
 D3 (E151) - : Negative battery cable
 G5 (E152) SMJ : To (M31)

Generator sub-harness

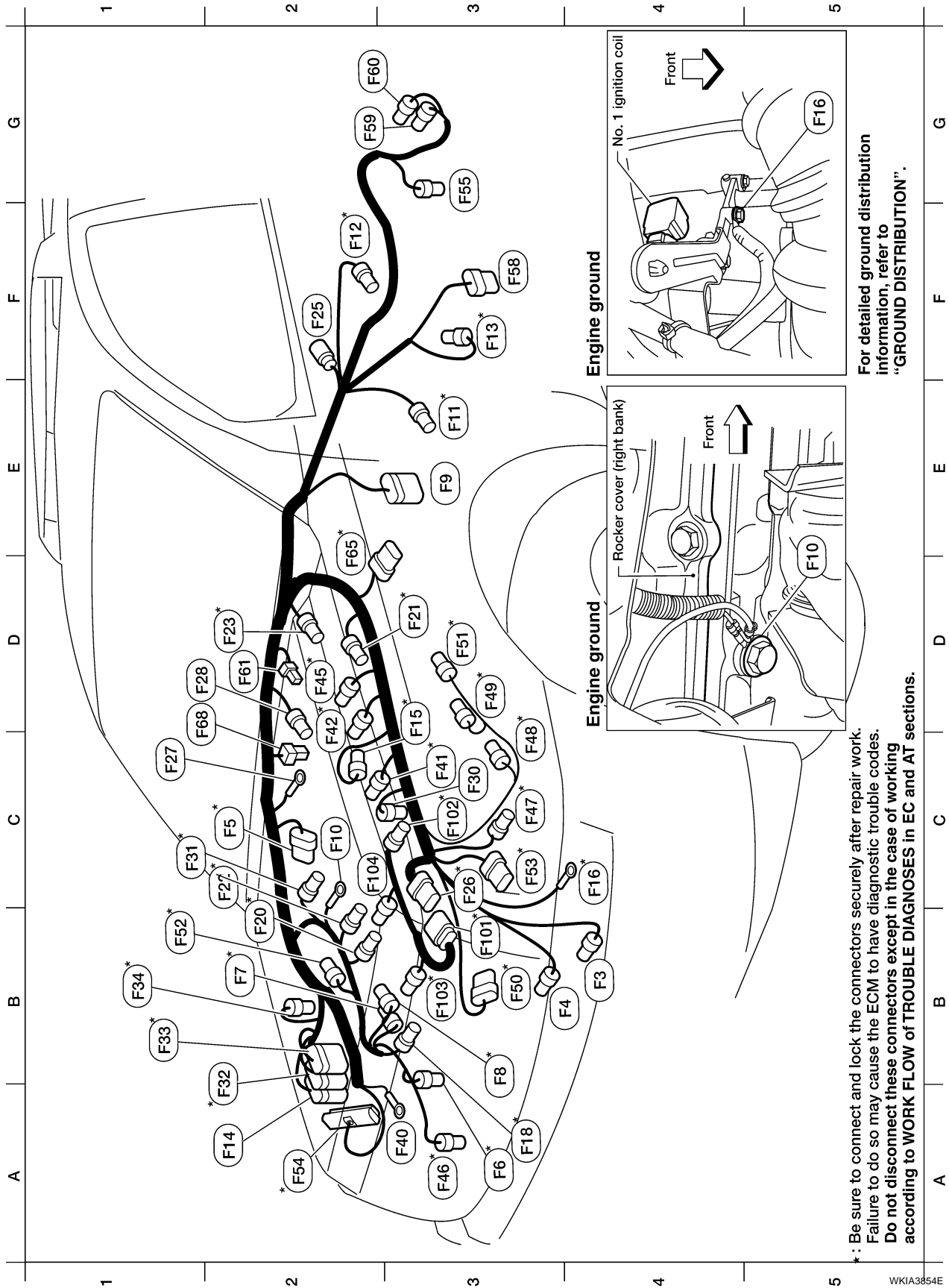
F3 (E201) GR/2 : To (E40)
 D2 (E202) B/1 : Fusible link box (battery)
 D3 (E203) - : Body ground
 D4 (E204) - : Generator
 D4 (E205) GR/2 : Generator
 D4 (E206) - : Generator

E3 (E2) W/16 : To (F32)
 C3 (E3) B/2 : Horn
 E2 * (E5) W/24 : To (F14)
 D3 (E7) GR/2 : Fusible link box (battery)
 F2 (E8) GR/2 : Dropping resistor
 C3 (E9) - : Body ground
 D3 (E12) B/5 : Stop lamp relay
 C2 * (E15) - : Body ground
 D2 * (E16) B/32 : ECM
 G4 (E17) W/4 : Fuel pump control module
 F3 * (E19) W/16 : To (F33)
 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)
 F3 * (E41) SMJ : To (C1) (located RH rear of engine compartment)
 E2 (E45) BR/6 : Back-up lamp relay
 E3 (E46) L/5 : Transfer relay 1
 E3 (E47) L/5 : Transfer relay 2
 C4 (E48) B/3 : Refrigerant pressure sensor
 C5 (E102) B/2 : Front fog lamp RH
 E3 (E103) B/5 : Daytime light relay
 C2 (E107) B/6 : Front combination lamp RH
 C4 (E113) GR/2 : Cooling fan motor
 F2 (E116) W/2 : Condenser-2
 E3 (E117) GR/2 : Front wheel sensor RH

* : 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



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

*: 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.

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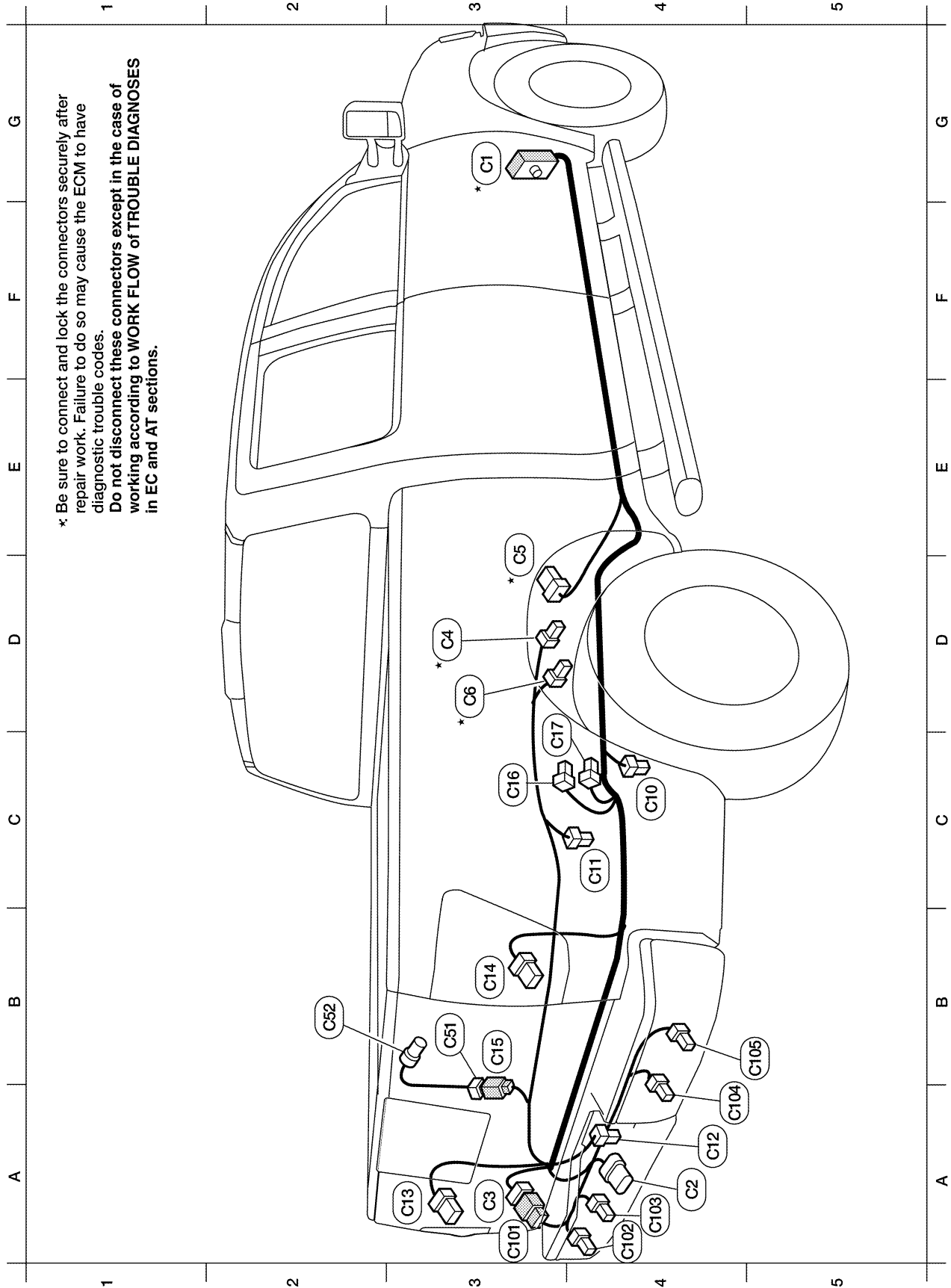
B4	(F3)	B/1	: A/C Compressor	C3	*	(F47)	GR/3	: Ignition coil No. 1 (with power transistor)
B4	(F4)	B/3	: Oil pressure sensor	C3	*	(F48)	GR/3	: Ignition coil No. 3 (with power transistor)
C2	(F5)	B/6	: Air fuel ratio (A/F) sensor 1 (bank 2)	D3	*	(F49)	GR/3	: Ignition coil No. 5 (with power transistor)
A3	*	(F6)	GR/3 : Ignition coil No. 2 (with power transistor)	B3	*	(F50)	B/6	: Electric throttle control actuator
B2	*	(F7)	GR/3 : Ignition coil No. 4 (with power transistor)	D3	*	(F51)	GR/3	: Ignition coil No. 7 (with power transistor)
B3	*	(F8)	GR/3 : Ignition coil No. 6 (with power transistor)	B1	*	(F52)	GR/3	: Ignition coil No. 8 (with power transistor)
E3	*	(F9)	G/10 : A/T assembly	C3	*	(F53)	B/6	: Mass air flow sensor
C2	(F10)	-	: Engine ground	A2	*	(F54)	B/81	: ECM
E3	*	(F11)	B/3 : Crankshaft position sensor (POS)	G3	*	(F55)	B/2	: ATP switch (4WD only)
F2	*	(F12)	G/4 : Heated oxygen sensor 2 (bank 2)	F3	(F58)	B/8	: Transfer control device (4WD only)	
F3	*	(F13)	G/4 : Heated oxygen sensor 2 (bank 1)	G2	(F59)	GR/2	: Wait detection switch (4WD only)	
A2	(F14)	W/24	: To (E5)	G2	(F60)	GR/2	: 4LO switch (4WD only)	
C3	*	(F15)	L/2 : EVAP canister purge volume control solenoid valve	D2	(F61)	W/2	: Condenser-2	
C4	*	(F16)	- : Engine ground	D2	*	(F65)	B/6	: Air fuel ratio (A/F) sensor 1 (bank 1)
A3	*	(F18)	GR/2 : Injector No. 2	D1	*	(F66)	B/2	: Water valve
B2	*	(F20)	GR/2 : Injector No. 4	Engine control sub-harness				
D3	*	(F21)	GR/2 : Condenser-1	B3	*	(F101)	B/6	: To (F26)
C2	*	(F22)	GR/2 : Injector No. 6	C3	*	(F102)	GR/2	: Knock sensor (bank 1)
D2	*	(F23)	B/3 : Camshaft position sensor (PHASE)	B3	*	(F103)	GR/2	: Engine coolant temperature sensor
F2	(F25)	W/2	: Diode No. 2	C2	*	(F104)	GR/2	: Knock sensor (bank 2)
C3	*	(F26)	B/6 : To (F101)					
C1	(F27)	B/1	: Starter motor					
D2	(F28)	GR/1	: Starter motor					
C3	*	(F30)	GR/2 : Injector No. 1					
C1	*	(F31)	GR/2 : Injector No. 8					
A2	*	(F32)	W/16 : To (E2)					
B1	*	(F33)	W/16 : To (E19)					
B1	*	(F34)	W/2 : To (E39)					
A3	(F39)	-	: Fusible link box (battery)					
A3	(F40)	-	: Fusible link box (battery)					
C3	*	(F41)	GR/2 : Injector No. 3					
C2	*	(F42)	GR/2 : Injector No. 5					
D2	*	(F45)	GR/2 : Injector No. 7					
A3	*	(F46)	B/3 : Power steering pressure sensor					

* : 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.

WKIA3863E

HARNESS

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* 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.

WKIA3703E

G3 * C1 SMJ : To E41 (located RH rear of engine compartment)
 A4 C2 B/7 : Trailer
 A3 C3 GR/6 : To C101
 D3 * C4 GR/3 : EVAP control system pressure sensor
 D3 * C5 GR/5 : Fuel level sensor unit and fuel pump
 D3 * C6 B/2 : EVAP canister vent control valve
 C4 C10 GR/2 : Rear wheel sensor RH
 C4 C11 BR/2 : Rear wheel sensor LH
 A4 C12 W/2 : License plate lamps
 A3 C13 GR/8 : Rear combination lamp LH
 B3 C14 GR/8 : Rear combination lamp RH
 B3 C15 W/2 : To C51
 C3 C16 GR/2 : Differential lock position switch
 C3 C17 B/2 : Differential lock solenoid
 Rear power socket sub-harness
 B3 C51 W/2 : To C15
 B2 C52 BR/2 : Rear cargo bed power socket
 Rear sonar sensor sub-harness
 A3 C101 GR/6 : To C3
 A4 C102 B/3 : Rear sonar sensor LH outer
 A4 C103 B/3 : Rear sonar sensor LH inner
 A4 C104 B/3 : Rear sonar sensor RH inner
 B5 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.
 Do not disconnect these connectors except in the case of working
 according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT
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WKIA5146E

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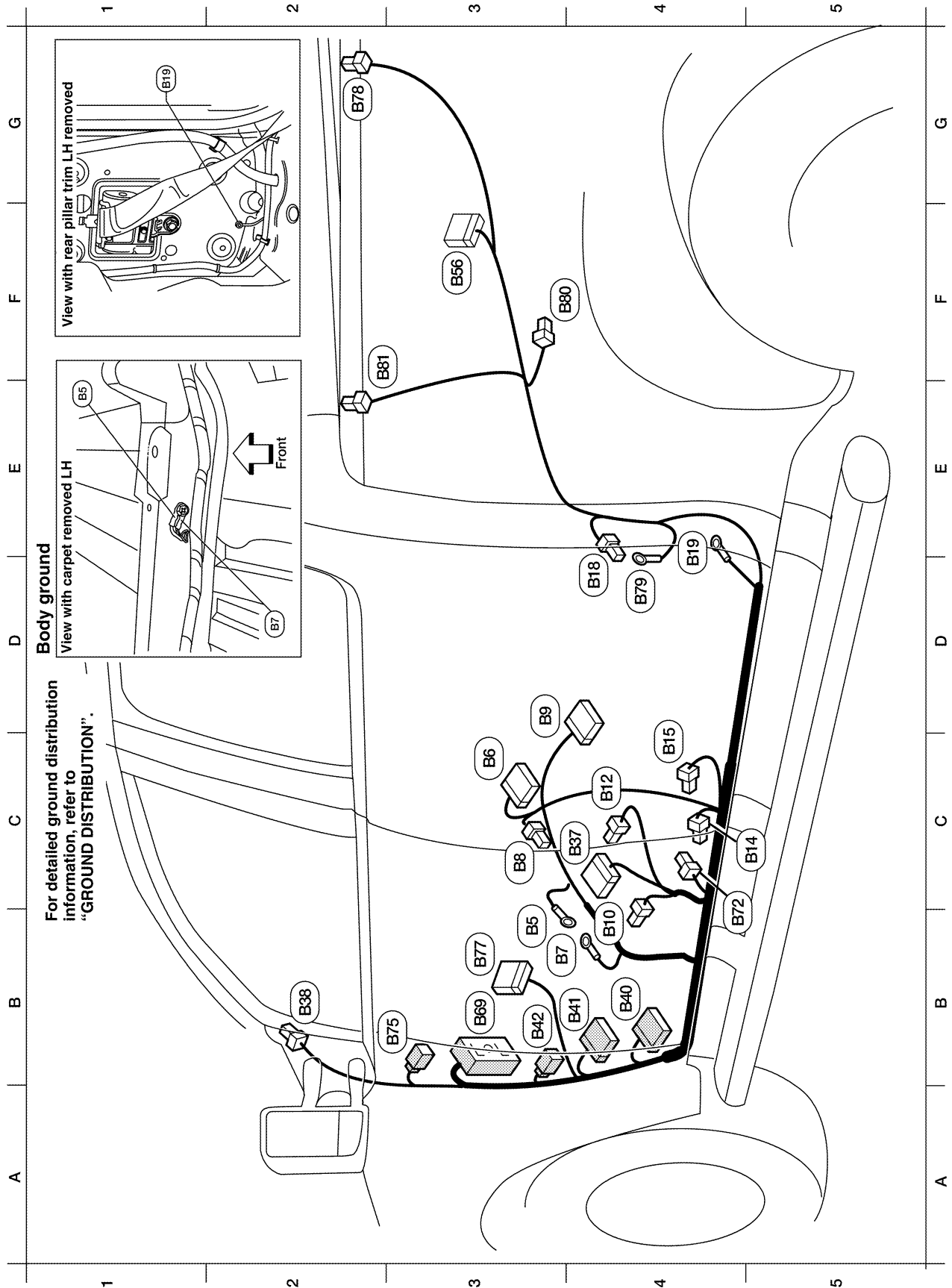
C3	(B5)	-	: Body ground (LH satellite sensor)
B4	(B7)	-	: Body ground
C4	(B8)	W/3	: Front door switch LH
D3	(B9)	Y/12	: Air bag diagnosis sensor unit
B4	(E10)	Y/2	: Front LH side air bag module
C4	(E12)	W/3	: Seat belt buckle switch LH
D4	(E14)	Y/2	: Front LH seat belt pre-tensioner
C4	(E15)	Y/2	: LH side air bag (satellite) sensor
E5	(B19)	-	: Body ground
C4	† (E37)	W/2	: To (P1) (without automatic drive positioner)
C4	†† (E37)	W/16	: To (P1) (with automatic drive positioner)
B2	(E38)	Y/2	: LH side curtain air bag module
B4	(E40)	W/24	: To (E34)
B4	(E41)	W/12	: To (E35)
B4	(E42)	W/2	: To (E36)
G3	(E56)	W/16	: Sonar control unit
B3	(E69)	SMJ	: To (M40)
C4	(E72)	W/4	: Subwoofer (with premium audio system)
D3	(E73)	B/2	: Rear door switch upper LH
D3	(E74)	B/2	: Rear door switch lower LH
B3	(E75)	BR/2	: To (E50)
D3	(E76)	W/2	: Rear door speaker LH
G3	(E77)	B/26	: Differential lock control unit

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HARNESS

BODY HARNESS (CREW CAB MODELS)



WKIA3705E

HARNESSES

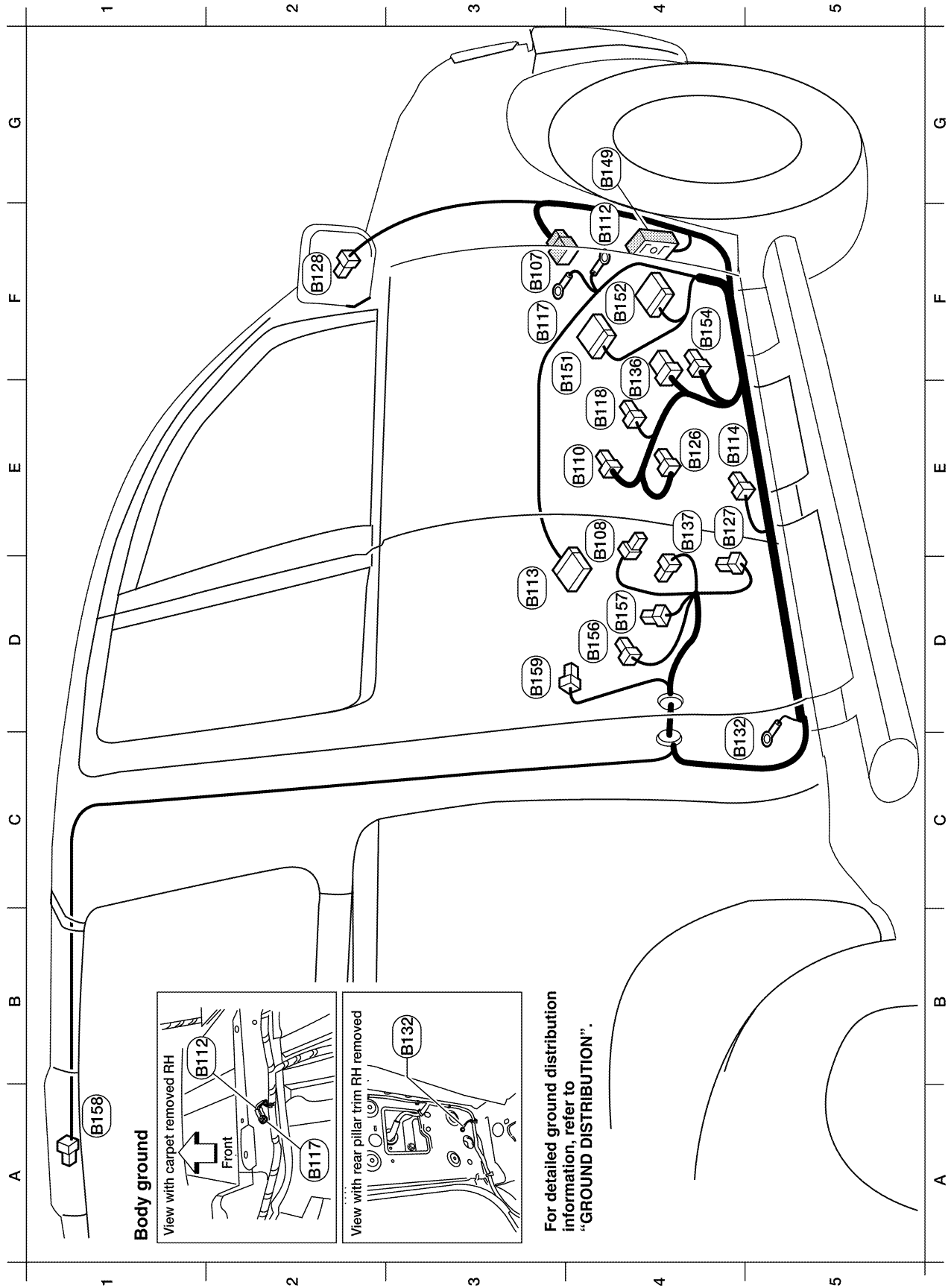
B3	(B5)	-	: Body ground (LH satellite sensor)
C3	(B6)	W/18	: To (Q20)
B3	(B7)	-	: Body ground
C3	(B8)	W/3	: Front door switch LH
C3	(B9)	Y/12	: Air bag diagnosis sensor unit
B4	(B10)	Y/2	: Front LH side air bag module
C3	(B12)	W/3	: Seat belt buckle switch LH
C4	(B14)	Y/2	: Front LH seat belt pre-tensioner
C4	(B15)	Y/2	: LH side air bag (satellite) sensor
D4	(B18)	W/3	: Rear door switch LH
E4	(B19)	-	: Body ground
C3	(B37)	W/16	: To (F1)
B2	(B38)	Y/2	: LH side curtain air bag module
B4	(B40)	W/24	: To (E34)
B4	(B41)	W/12	: To (E35)
B3	(B42)	W/2	: To (E36)
F3	(B56)	W/16	: Sonar control unit
B3	(B69)	SMJ	: To (M40)
B4	(B72)	W/4	: Subwoofer (with premium audio system)
B3	(B75)	BR/2	: To (E50)
F2	(B78)	B/1	: Rear window defogger
G2	(B81)	B/1	: Rear window defogger
D4	(B79)	-	: Body ground
F3	(B80)	GR/4	: Rear power drop glass motor

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HARNESS

BODY NO. 2 HARNESS (KING CAB MODELS)



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F3	(6107)	W/8	: To (E139)
D4	(6108)	W/3	: Front door switch RH
E4	(6110)	W/3	: Seat belt buckle switch RH
F4	(6112)	-	: Body ground (RH satellite sensor)
D3	(6113)	Y/12	: Air bag diagnosis sensor unit
E5	(6114)	Y/2	: RH side air bag (satellite) sensor
F3	(6117)	-	: Body ground
E4	(6118)	W/3	: Front seat heater RH
E4	(6126)	Y/2	: Front RH side air bag module
D5	(6127)	Y/2	: Front RH seat belt pre-tensioner
F2	(6128)	Y/2	: RH side curtain air bag module
C4	(6132)	-	: Body ground
E4	(6136)	W/8	: To (6151)
D4	(6137)	B/3	: Belt tension sensor
G4	(6149)	SMJ	: To (M36)
F4	(6151)	W/24	: NAVI control unit (with NAVI)
F4	(6152)	GR/24	: NAVI control unit (with NAVI)
F4	(6154)	W/2	: To (F103)
D4	(6156)	B/2	: Rear door switch upper RH
D4	(6157)	B/2	: Rear door switch lower RH
A1	(6158)	W/3	: High mounted stop lamp
D3	(6159)	W/2	: Rear door speaker RH

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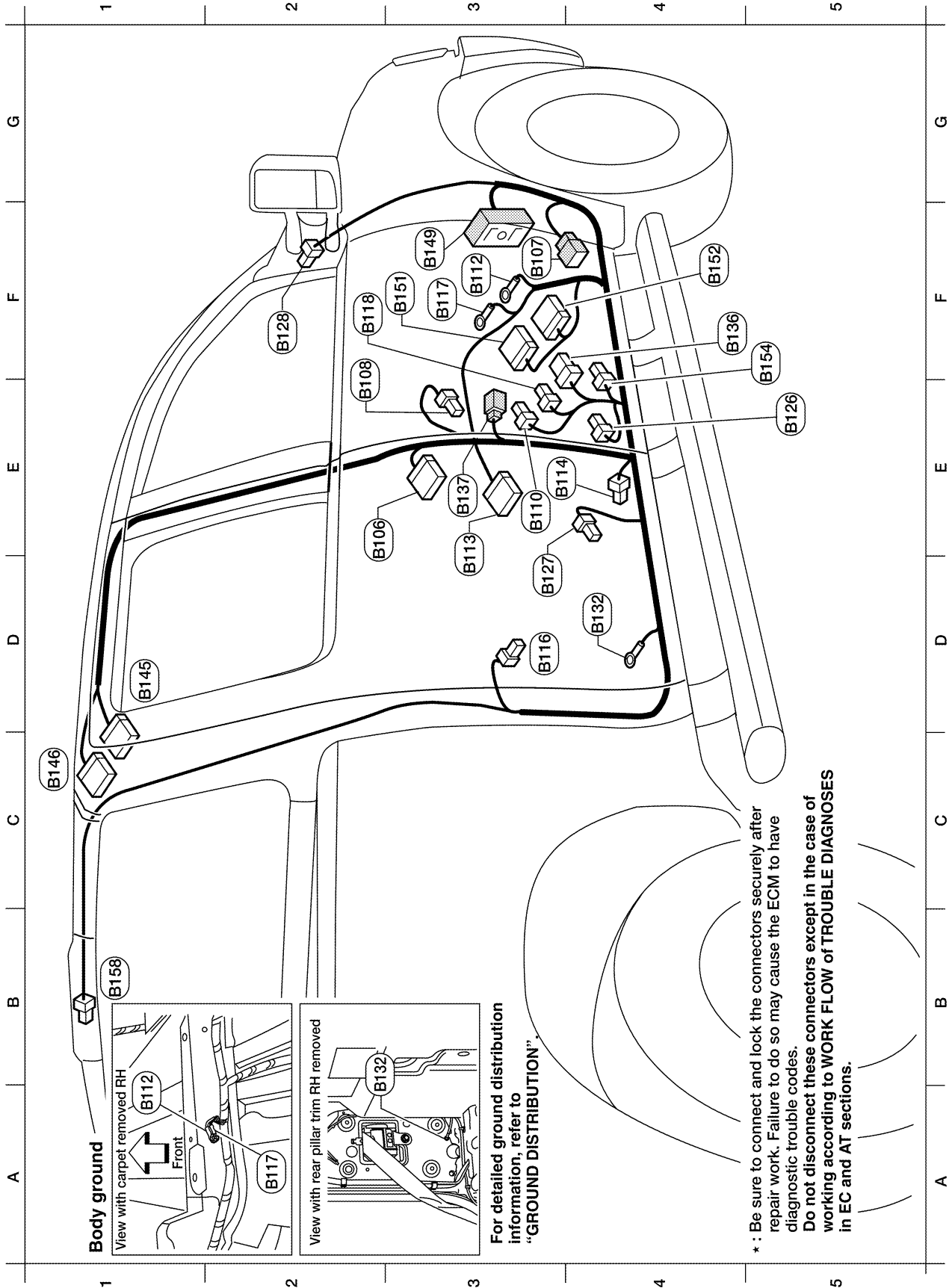
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HARNESS

BODY NO. 2 HARNESS (CREW CAB MODELS)



HARNESS

D3	(E106)	W/18	: To (Q201)
F3	(E107)	W/8	: To (E139)
E2	(E108)	W/3	: Front door switch RH
E4	(E110)	W/3	: Seat belt buckle switch RH
F3	(E112)	-	: Body ground (RH satellite sensor)
E3	(E113)	Y/12	: Air bag diagnosis sensor unit
E3	(E114)	Y/2	: RH side air bag (satellite) sensor
D3	(E116)	W/3	: Rear door switch RH
F3	(E117)	-	: Body ground
F2	(E118)	W/3	: Front seat heater RH
E5	(E126)	Y/2	: Front RH side air bag module
D4	(E127)	Y/2	: Front RH seat belt pre-tensioner
F2	(E128)	Y/2	: RH side curtain air bag module
D4	(E132)	-	: Body ground
F4	(E136)	W/8	: To (P151)
E3	(E137)	B/3	: Belt tension sensor
D1	(E145)	W/16	: To (R200)
C1	(E146)	BR/24	: To (R201)
F3	(E149)	SMJ	: To (M236)
F3	(E151)	W/24	: NAVI control unit (with NAVI)
F4	(E152)	GR/24	: NAVI control unit (with NAVI)
F5	(E154)	W/2	: To (P103)

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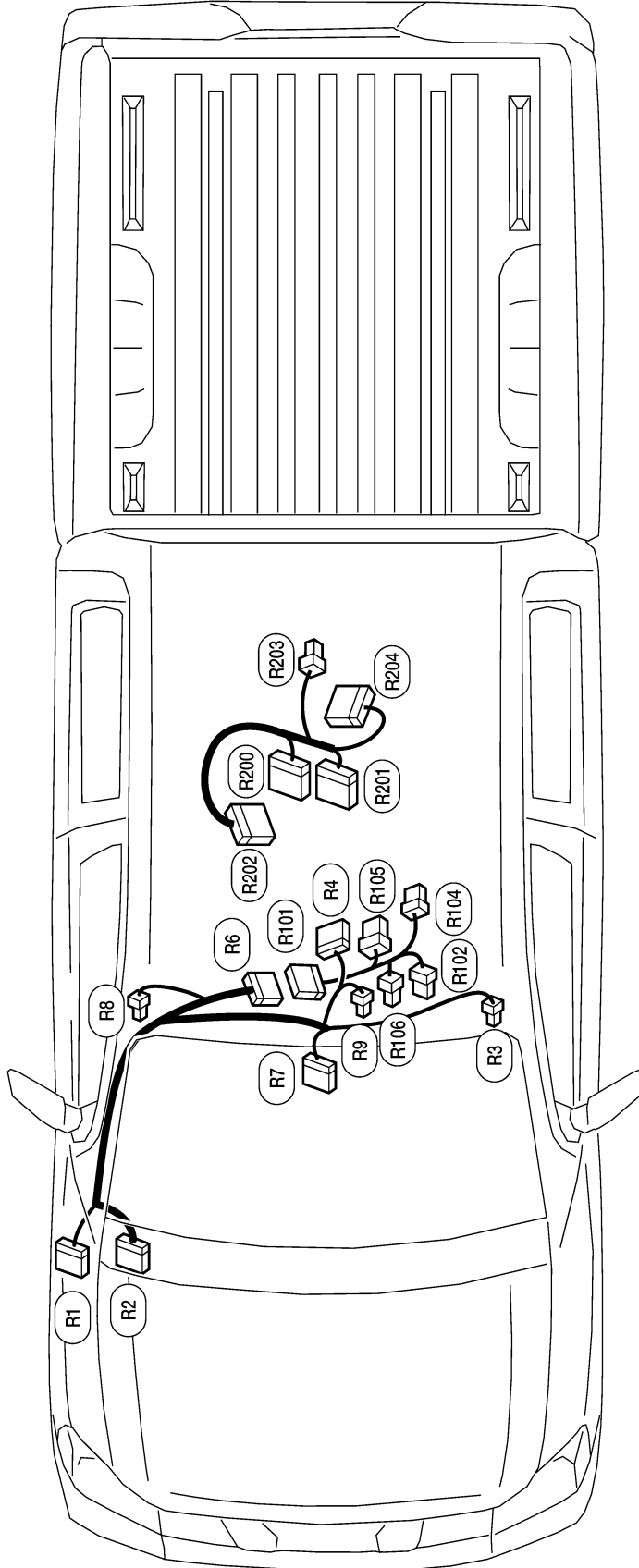
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HARNESS

ROOM LAMP HARNESS



Room lamp sub-harness B (Crew Cab)

- (R200) W/16 : To (6145)
- (R201) BR/24 : To (6146)
- (R202) W/12 : Video monitor
- (R203) W/3 : Personal lamp 2nd row
- (R204) W/16 : Rear audio remote control unit

- (R1) W/16 : To (M1)
- (R2) W/12 : To (M2)
- (R3) W/2 : Vanity lamp LH
- (R4) W/10 : Sunroof motor assembly
- (R6) W/24 : To (R101)
- (R7) B/7 : Auto anti-dazzling inside mirror
- (R8) W/2 : Vanity lamp RH
- (R9) W/2 : Room lamp

Room lamp sub-harness A (Crew Cab)

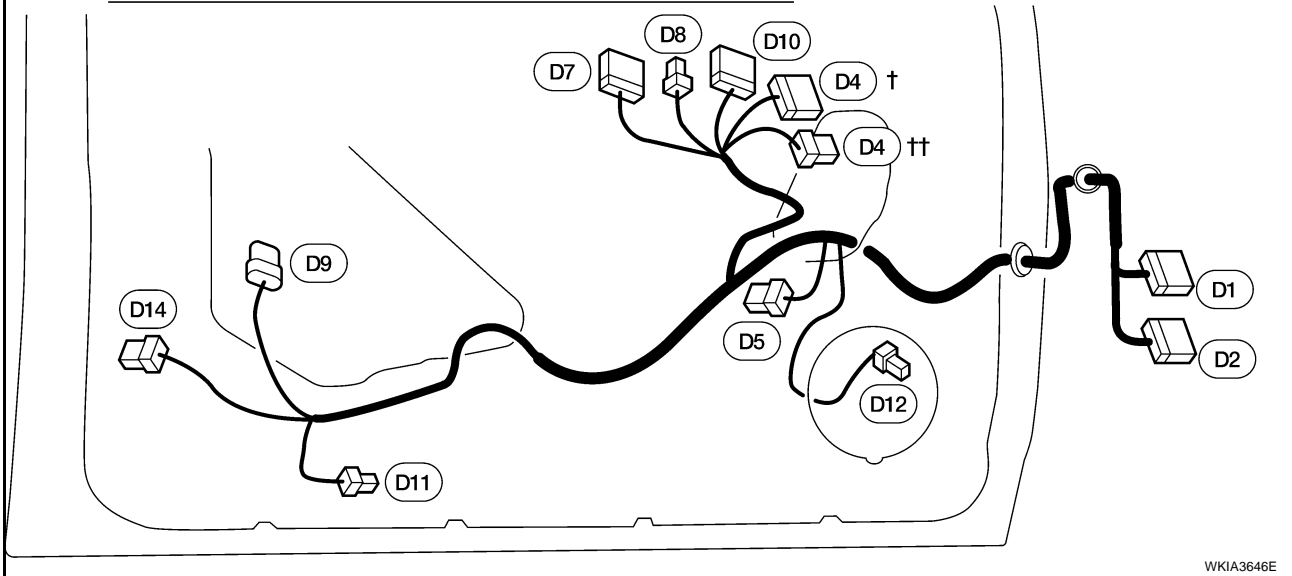
- (R101) W/24 : To (R6)
- (R102) GR/8 : Front room/map lamp assembly
- (R104) GR/6 : Sunroof switch
- (R105) W/8 : Compass/thermometer
- (R106) W/2 : HOMELINK universal transceiver

WKIA3890E

HARNESS

FRONT DOOR HARNESS LH

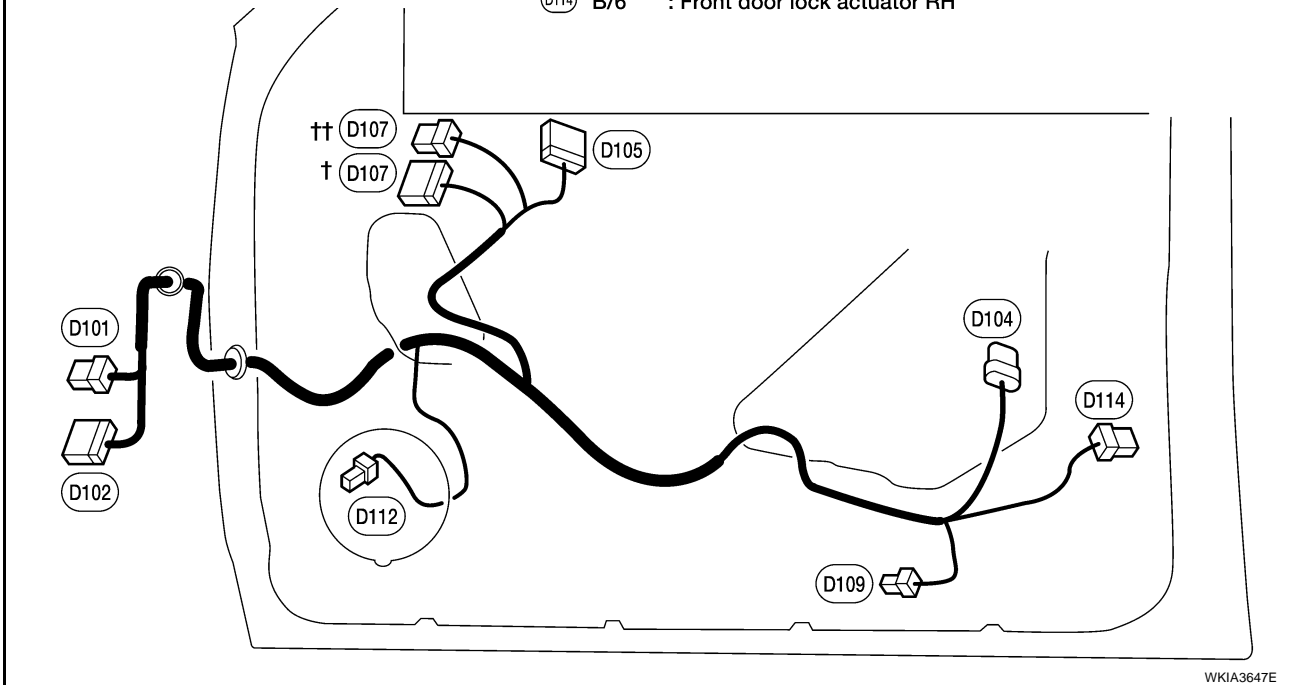
- | | |
|-------------------------------------------------------------------|----------------------------------------------------------|
| (D1) BR/24 : To (M9) | (D8) W/3 : Main power window and door lock/unlock switch |
| (D2) W/16 : To (M8) | (D9) GR/6 : Front power window motor LH |
| † (D4) W/16 : Door mirror LH (with automatic drive positioner) | (D10) W/16 : Door mirror remote control switch |
| †† (D4) W/6 : Door mirror LH (without automatic drive positioner) | (D11) W/2 : Front step lamp LH |
| (D5) W/8 : Seat memory switch | (D12) W/2 : Front door speaker LH |
| (D7) W/16 : Main power window and door lock/unlock switch | (D14) B/6 : Front door lock assembly LH |



WKIA3646E

FRONT DOOR HARNESS RH

- | | |
|-----------------------------------------------------------|---------------------------------------------------------------------|
| (D101) W/8 : To (M75) | † (D107) W/16 : Door mirror RH (with automatic drive positioner) |
| (D102) W/20 : To (M74) | †† (D107) W/6 : Door mirror RH (without automatic drive positioner) |
| (D104) GR/6 : Front power window motor RH | (D109) W/2 : Front step lamp RH |
| (D105) W/16 : Power window and door lock/unlock switch RH | (D112) W/2 : Front door speaker RH |
| | (D114) B/6 : Front door lock actuator RH |

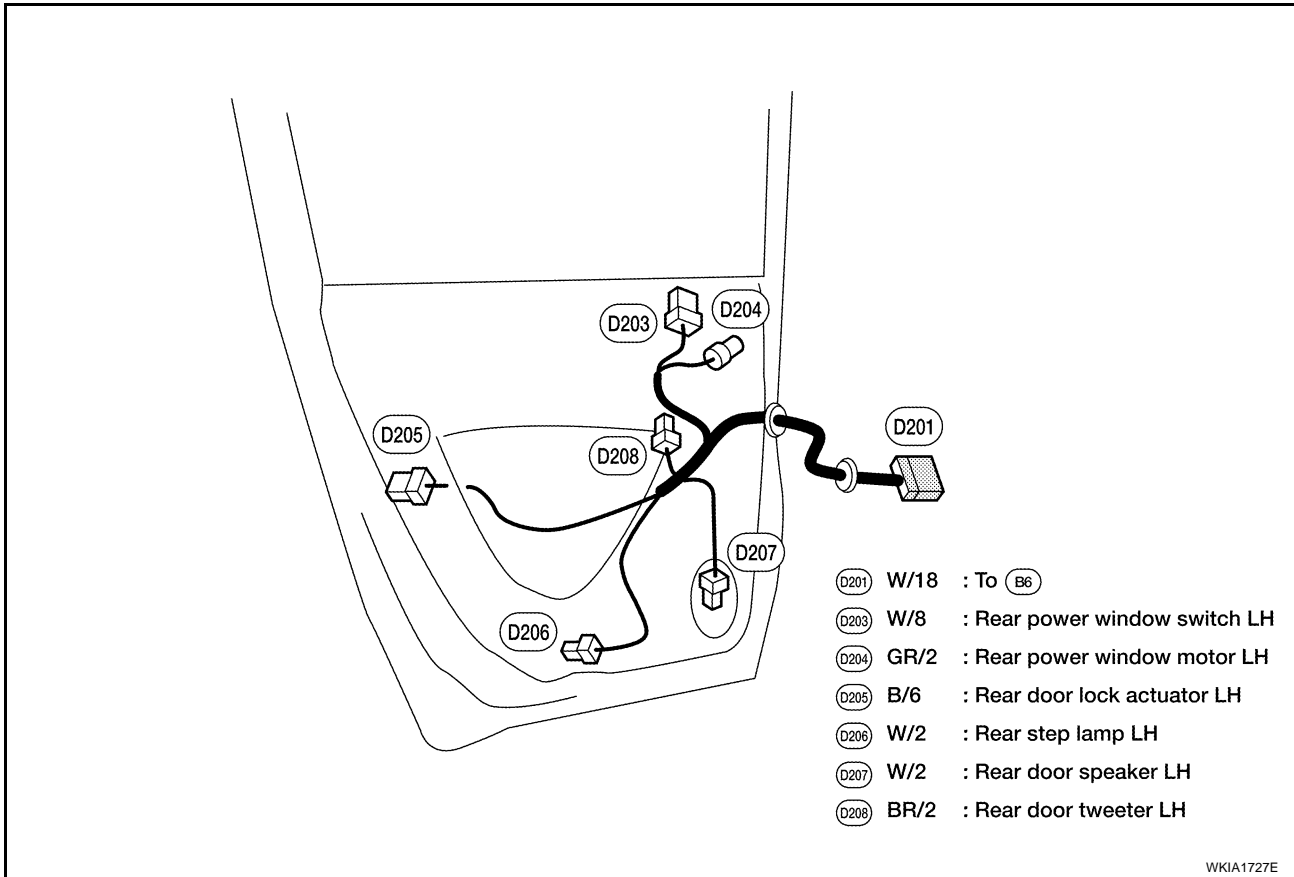


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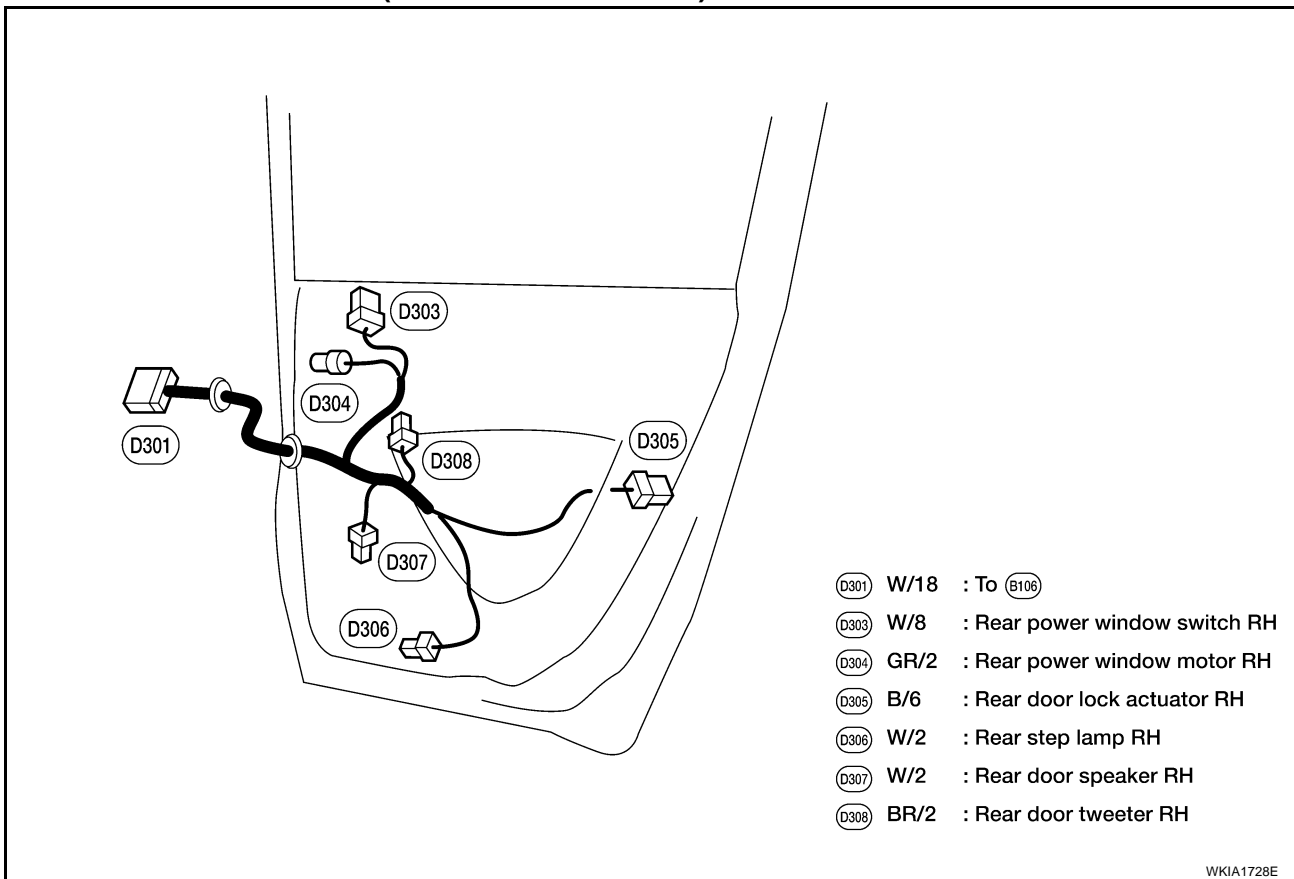
HARNESS

REAR DOOR HARNESS LH (CREW CAB MODELS)



WKIA1727E

REAR DOOR HARNESS RH (CREW CAB MODELS)



WKIA1728E

HARNESS

EKS00ARK

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
AF1B1	EC	Air Fuel Ratio Sensor 1 Bank 1
AF1B2	EC	Air Fuel Ratio Sensor 1 Bank 2
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ABLS	BRC	Active Brake Limited Slip
ABS	BRC	Anti-Lock Brake System
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
AUTO/DP	SE	Automatic Drive Positioner
AUTO/L	LT	Auto Light Control
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
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
DIFLOC	RFD	Electronic Locking Differential
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
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Bank 1
FUELB2	EC	Fuel Injection System Bank 2
H/LAMP	LT	Headlamp
HORN	WW	Horn
HSEAT	SE	Heated Seat
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System

HARNESSES

ILL	LT	Illumination
INJECT	EC	Injectors
INT/L	LT	Room/Map, Vanity, Cargo, Personal, Foot, Step, and Puddle Lamps
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
MAFS	EC	Mass Air Flow Sensor
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges
MIL/DL	EC	Malfunction Indicator Lamp
MIRROR	GW	Door Mirror
MMSW	AT	Manual Mode Switch
NATS	BL	Nissan Anti-Theft System
NAVI	AV	Navigation System
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2
P/SCKT	WW	Power Socket
PEDAL	AP	Adjustable Pedal System
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
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
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
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
VEHSEC	BL	Vehicle security (theft warning) system
VENT/V	EC	EVAP Canister Vent Control Valve
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

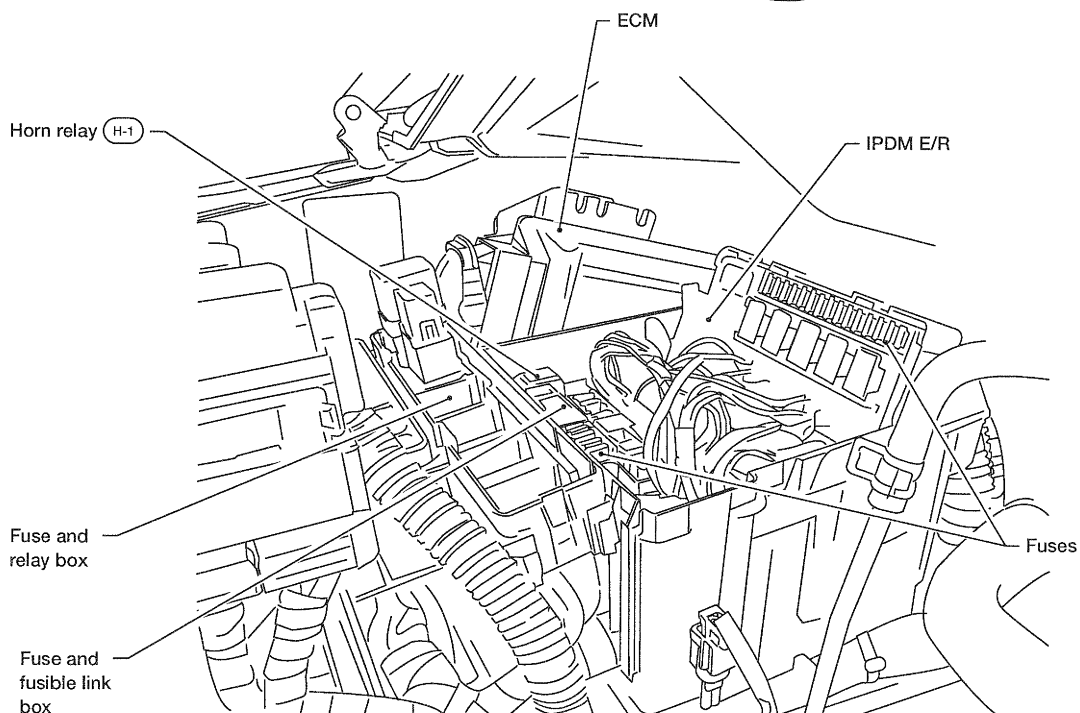
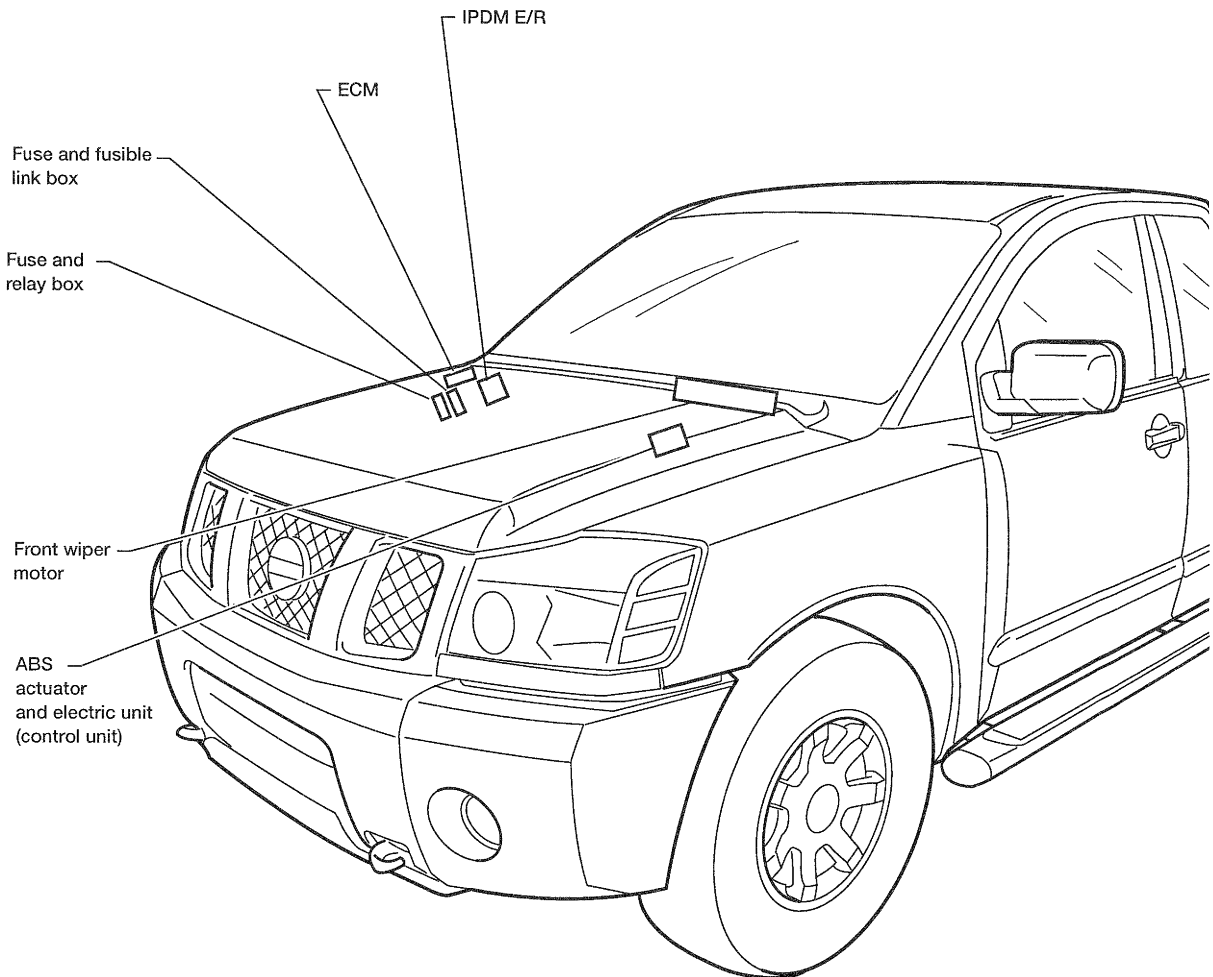
ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

PFP:25230

Electrical Units Location ENGINE COMPARTMENT

EKS00ARL

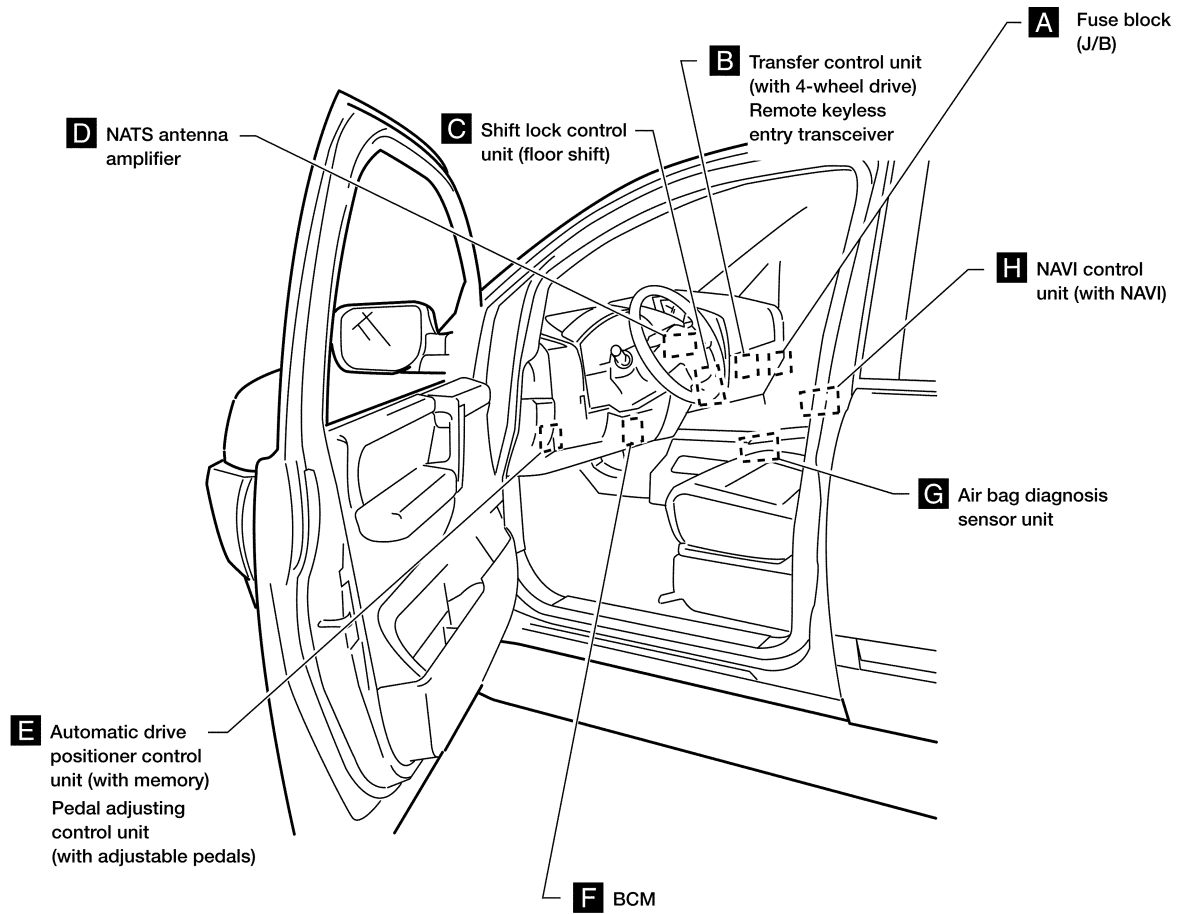


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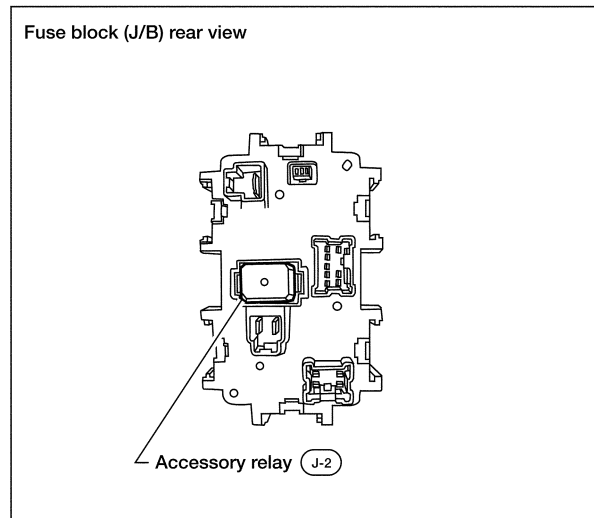
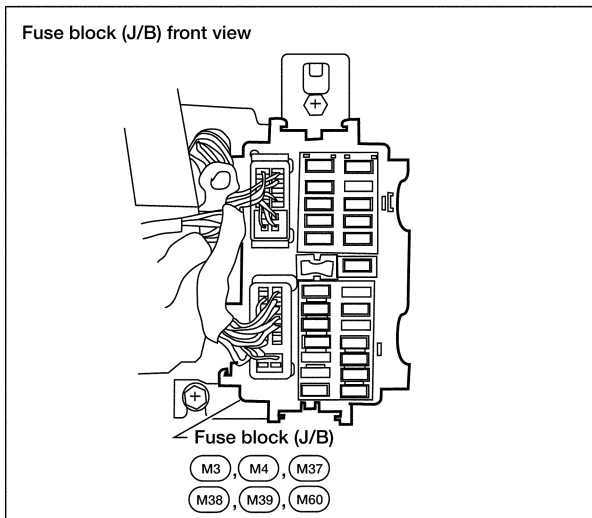
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ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT



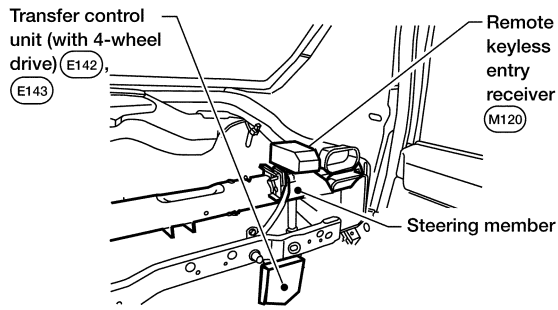
A Instrument panel side RH



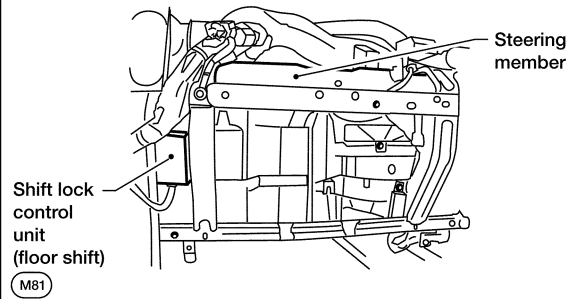
WKIA5147E

ELECTRICAL UNITS LOCATION

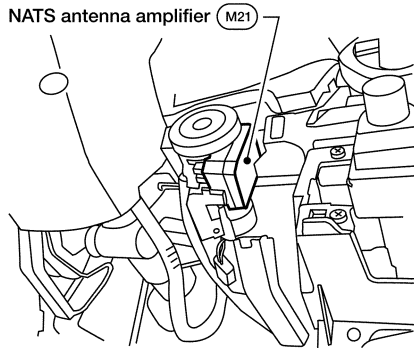
B View with instrument panel removed RH



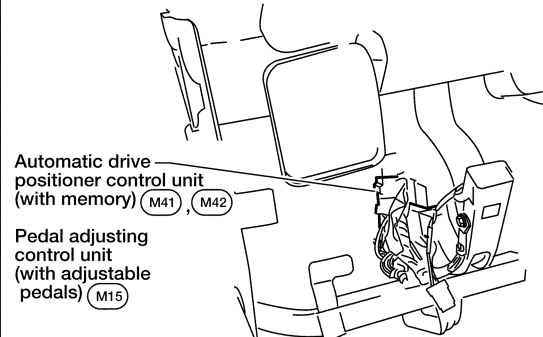
C View with instrument panel removed RH



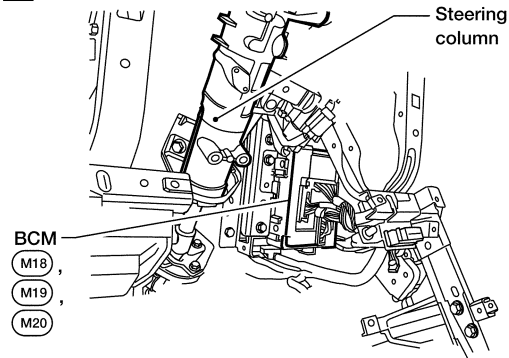
D View with lower driver instrument panel removed



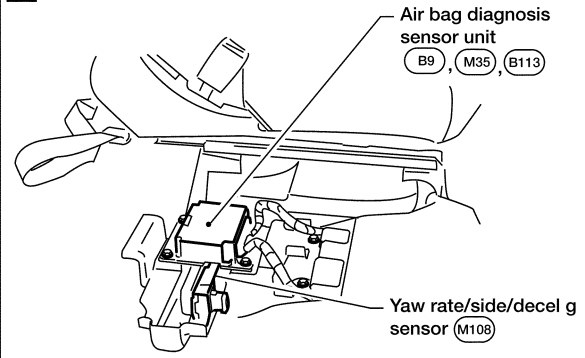
E View with steering member removed LH



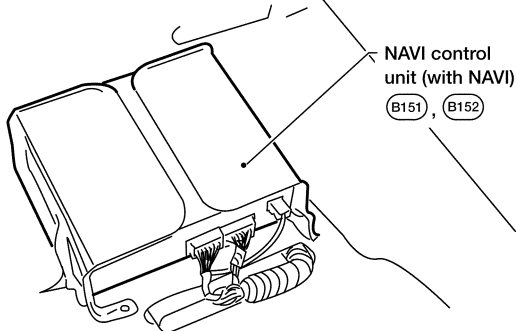
F View with instrument panel removed



G View with center console removed



H View with passenger seat removed



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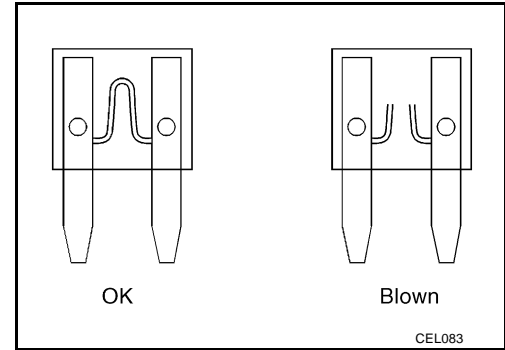
WKIA5148E

ELECTRICAL UNITS LOCATION

Fuse

EKS00ARM

- 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

EKS00ARO

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.

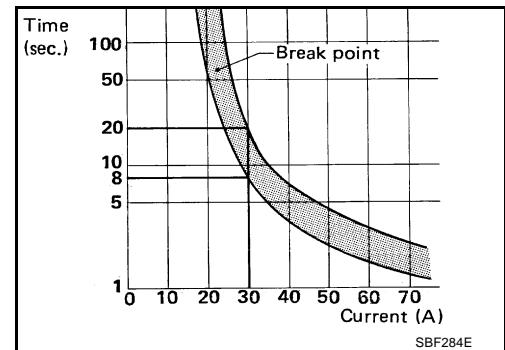
Circuit Breaker (Built Into BCM)

EKS00ARO

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



HARNESS CONNECTOR

PF0:B4341

HARNESS CONNECTOR

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

EKS00ARP

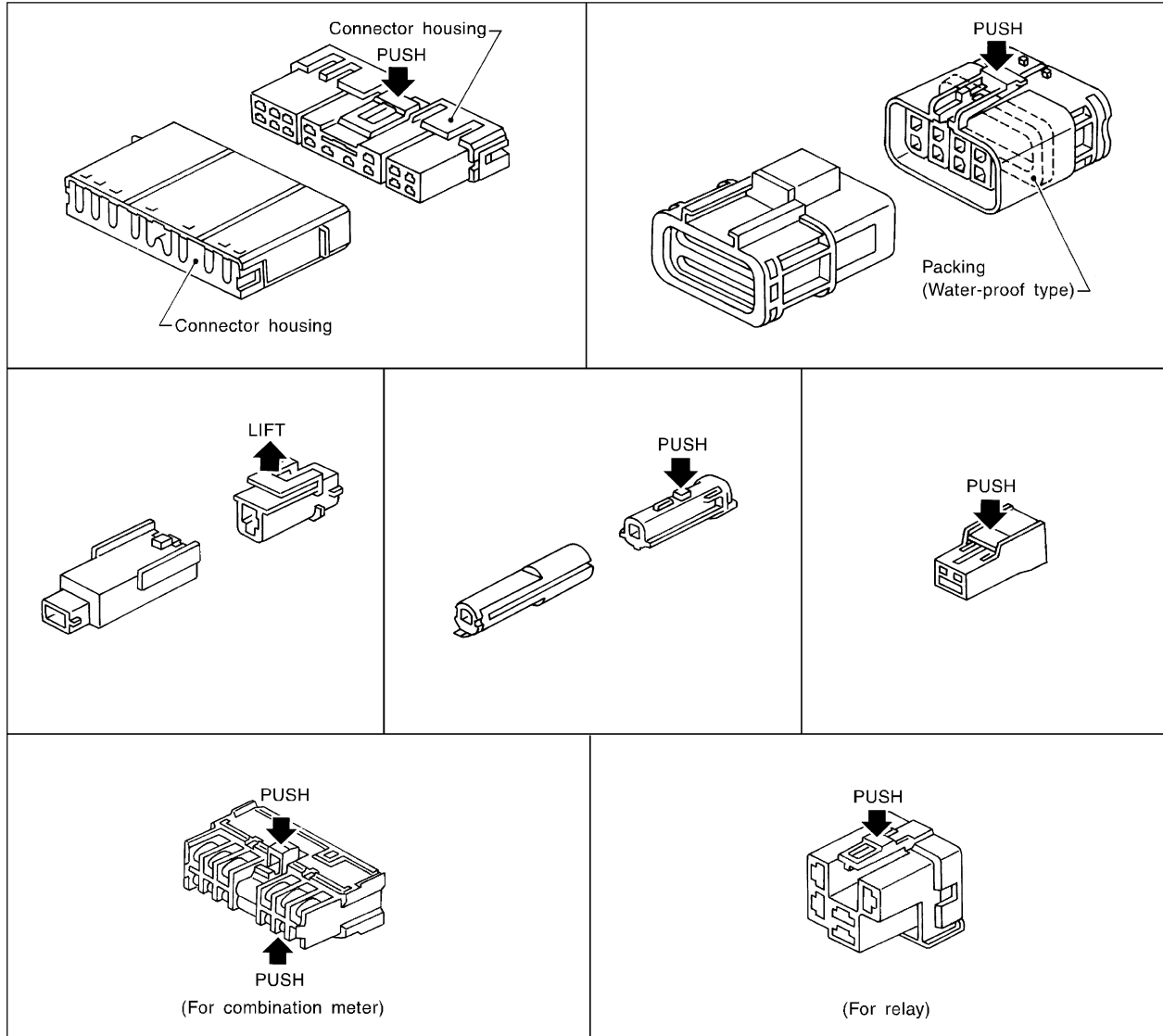
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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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SEL769DA

HARNESS CONNECTOR

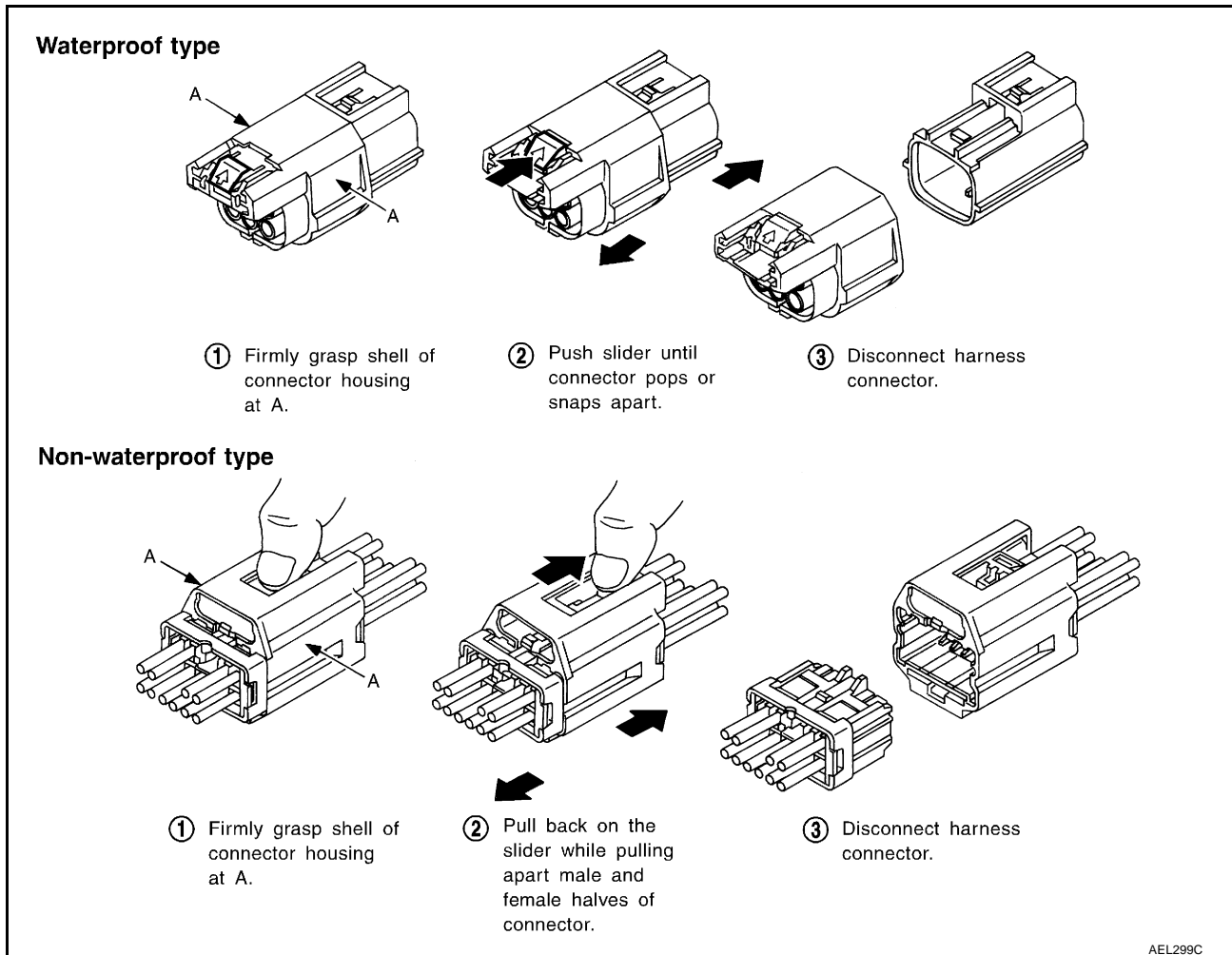
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



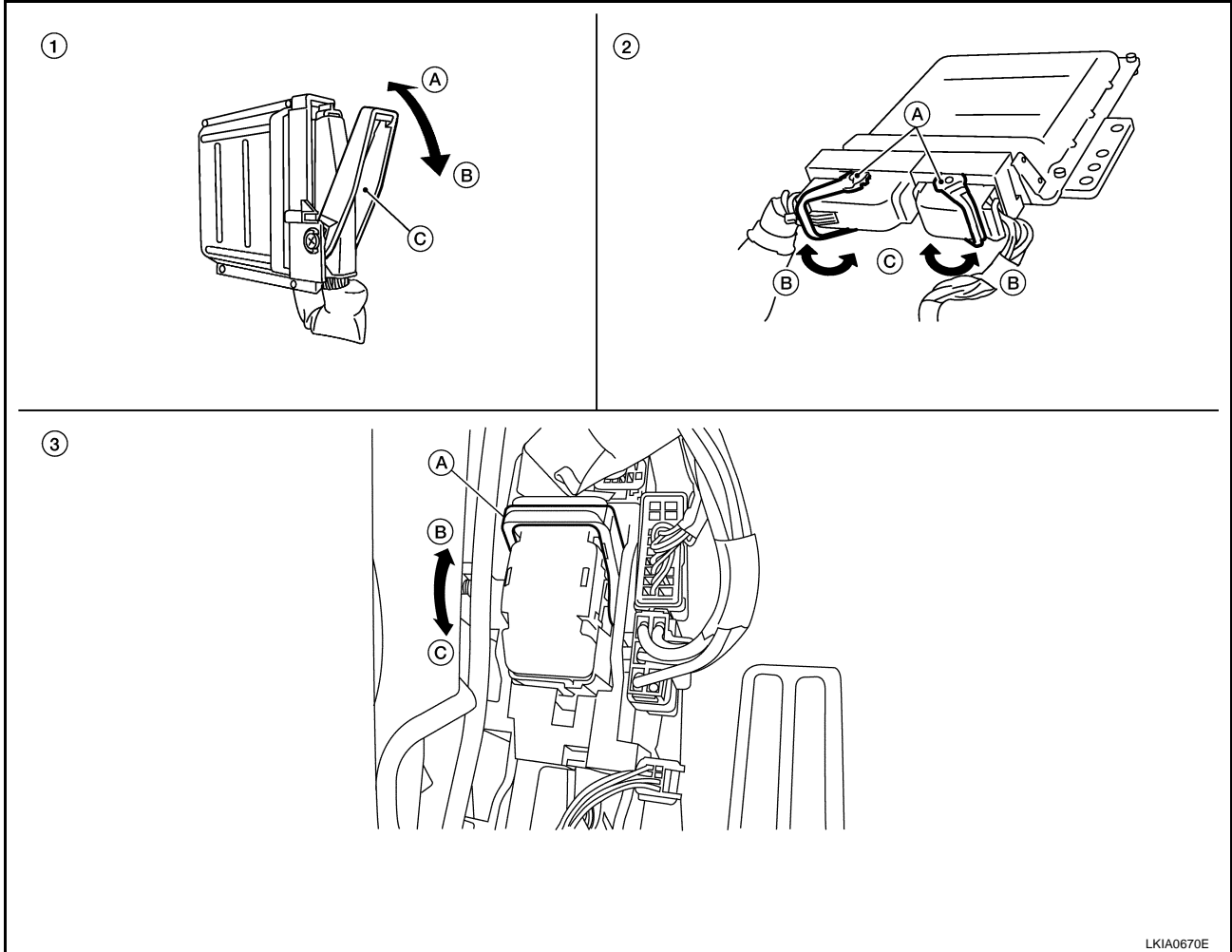
HARNESS CONNECTOR

HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

CAUTION:

Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



1. Control unit with single lever
A. Fasten
B. Loosen
C. Lever

2. Control unit with dual levers
A. Levers
B. Fasten
C. Loosen

3. SMJ connector
A. Lever
B. Fasten
C. Loosen

LKIA0670E

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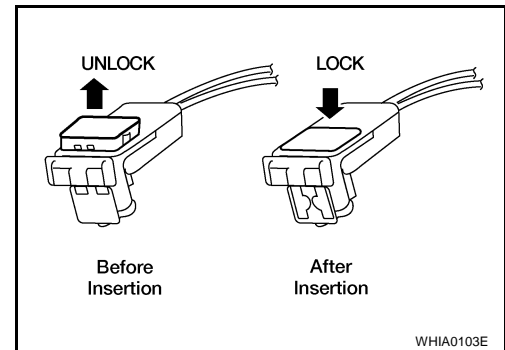
HARNESS CONNECTOR

HARNESS 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.**



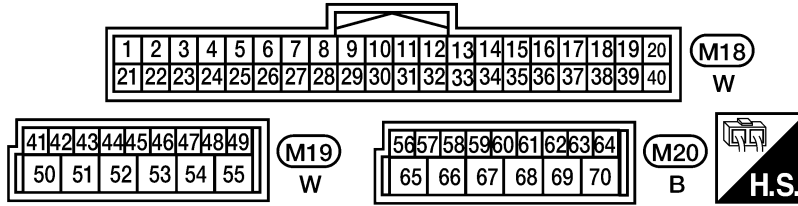
ELECTRICAL UNITS

ELECTRICAL UNITS Terminal Arrangement

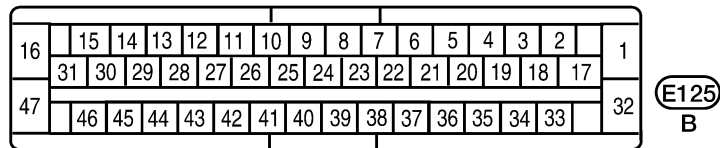
PF23710

EKS00ARQ

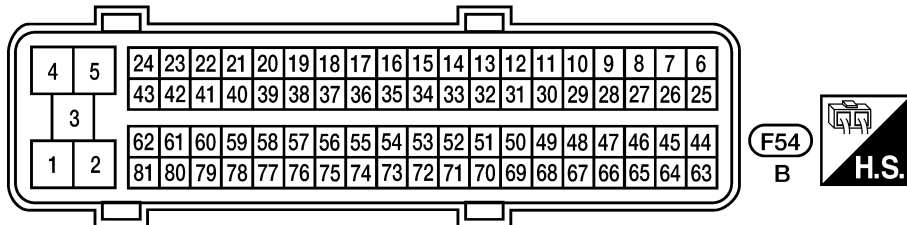
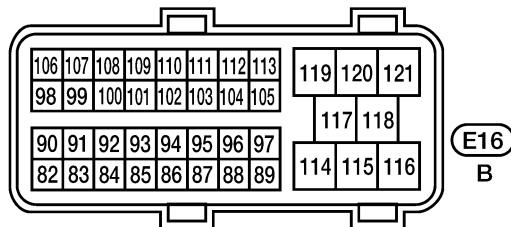
BCM (BODY CONTROL MODULE)



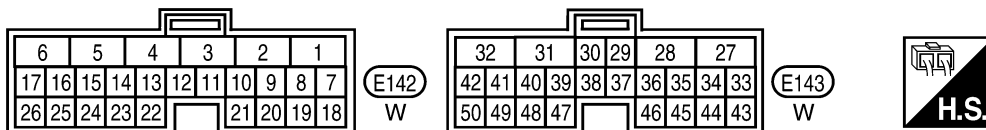
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



ECM



TRANSFER CONTROL UNIT



WKIA5149E

STANDARDIZED RELAY

PFP:25230

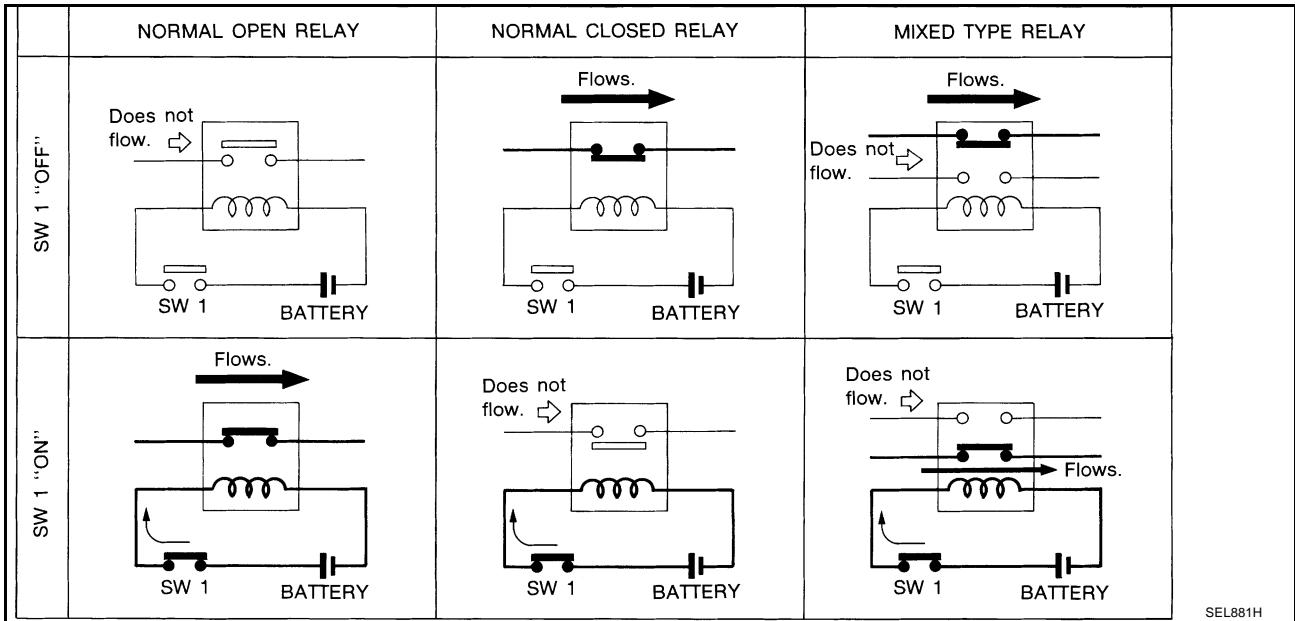
EKS00ARR

STANDARDIZED RELAY

Description

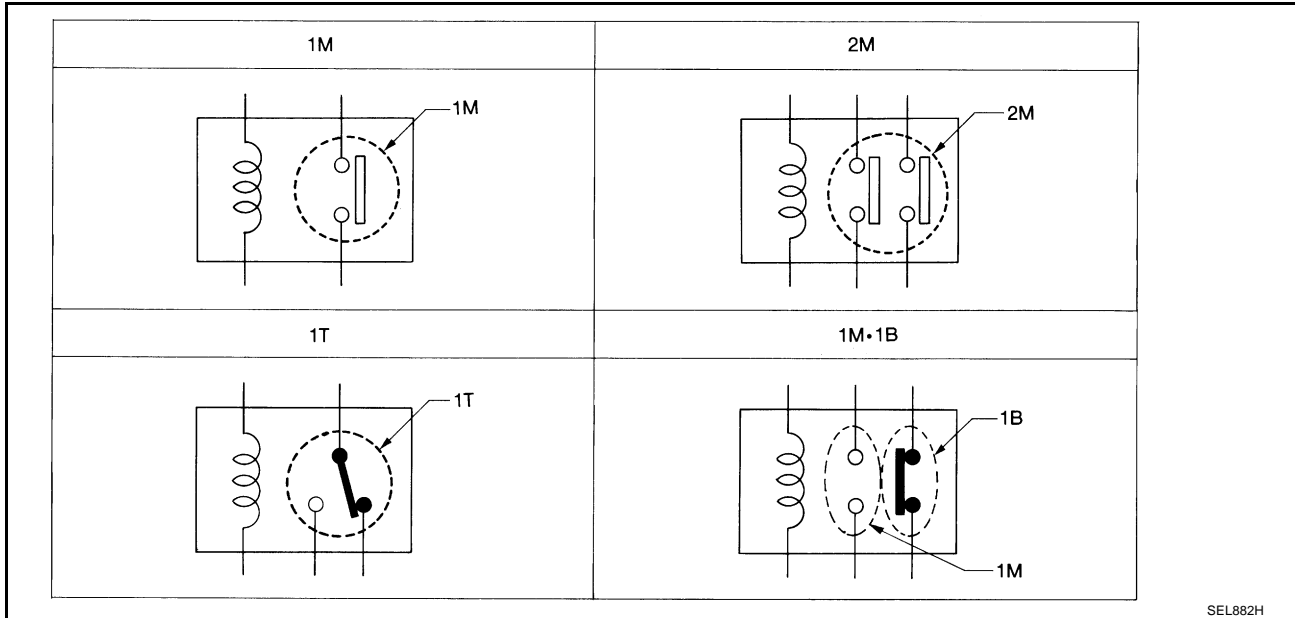
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

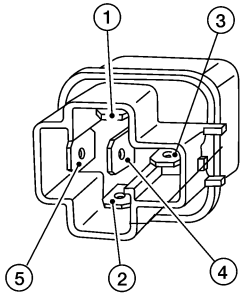
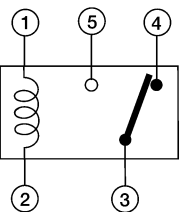
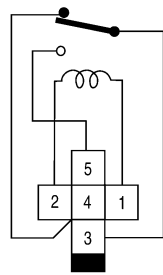
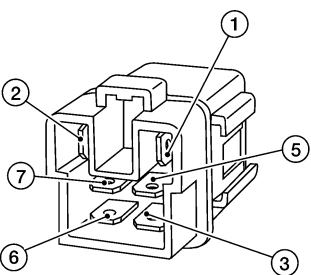
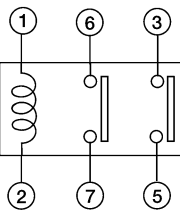
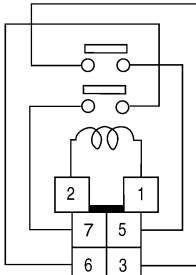
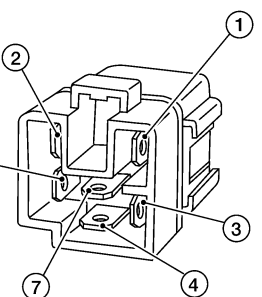
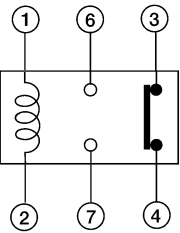
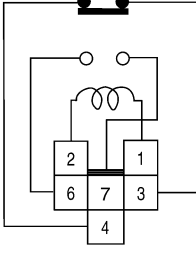
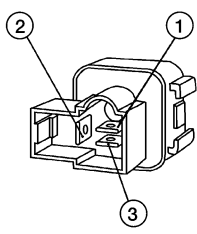
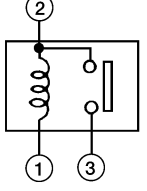
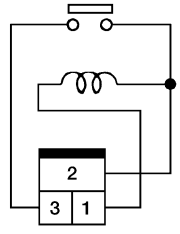
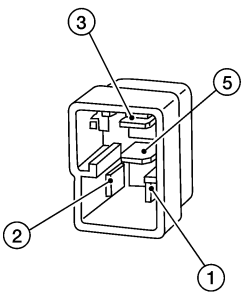
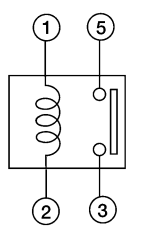
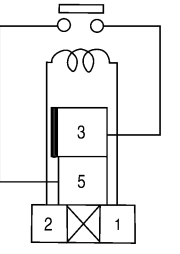
TYPE OF STANDARDIZED RELAYS



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

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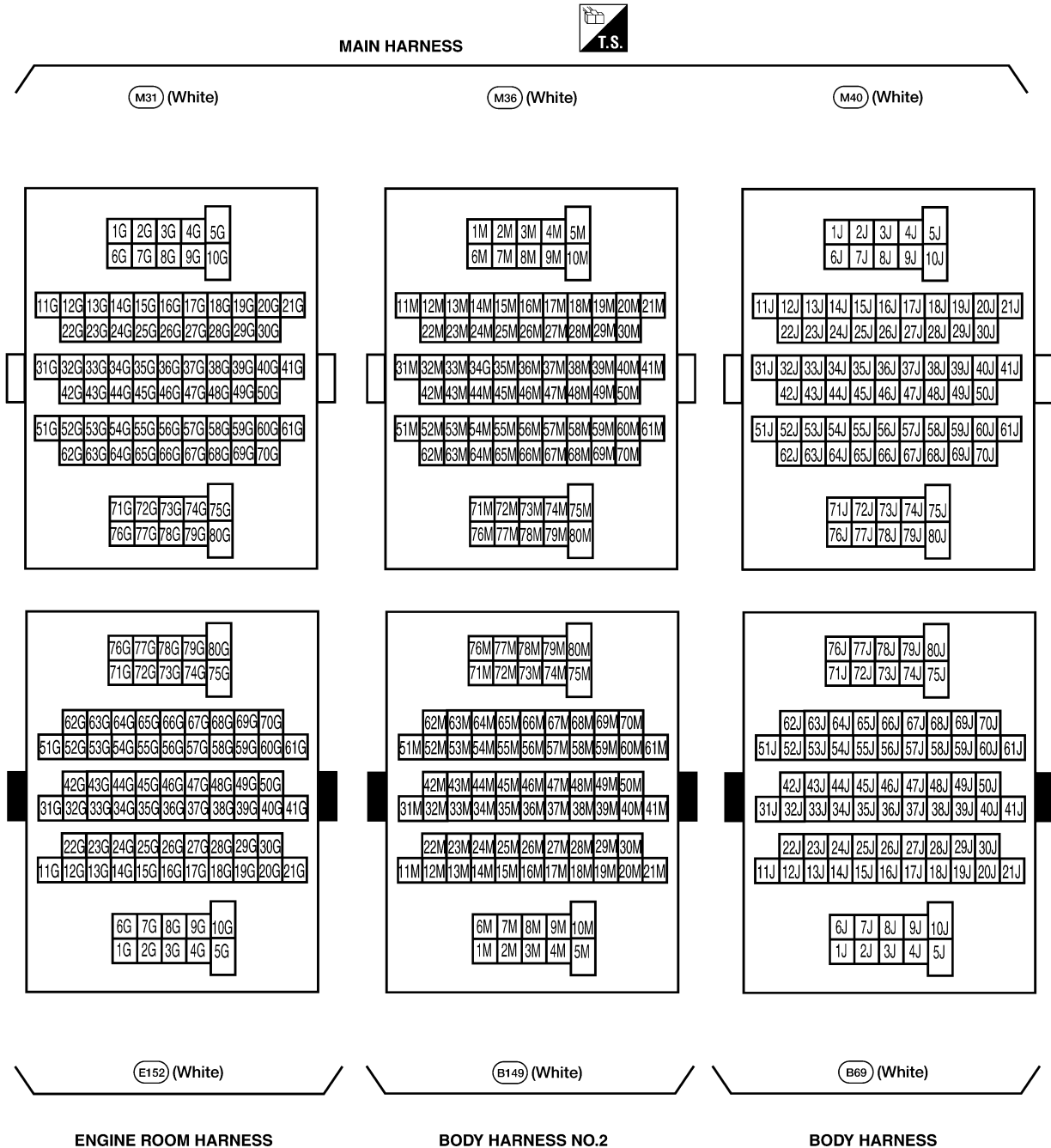
SUPER MULTIPLE JUNCTION (SMJ)

SUPER MULTIPLE JUNCTION (SMJ)

PF:84341

Terminal Arrangement

EKS00ARS



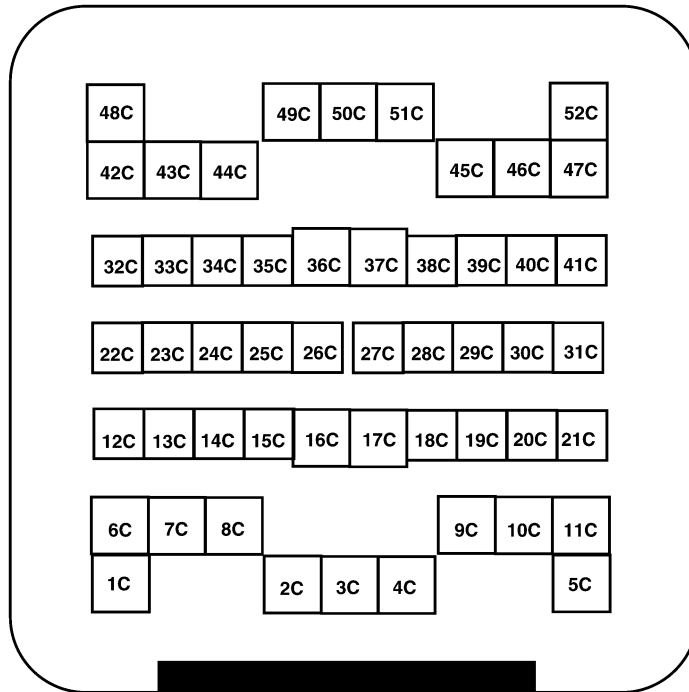
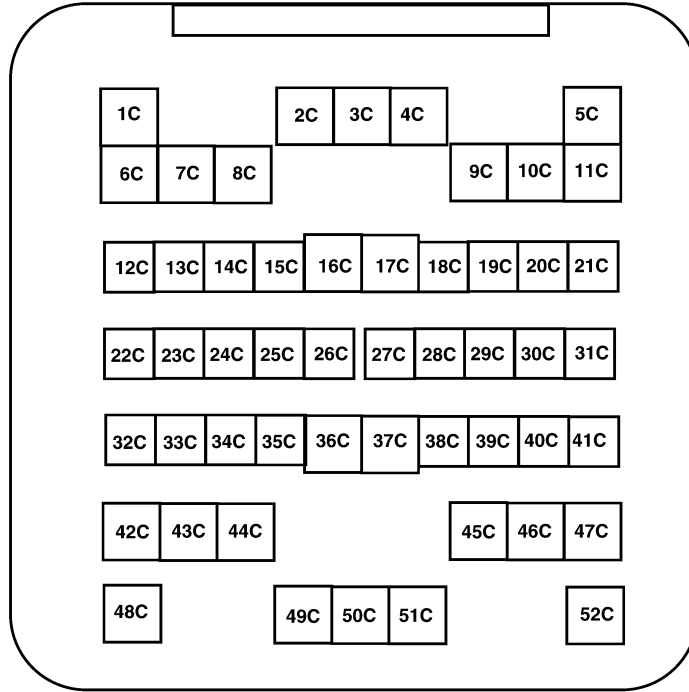
LKIA0385E

SUPER MULTIPLE JUNCTION (SMJ)

CHASSIS HARNESS



(C1) (Gray)



(E41) (Gray)

ENGINE ROOM HARNESS

WKIA1845E

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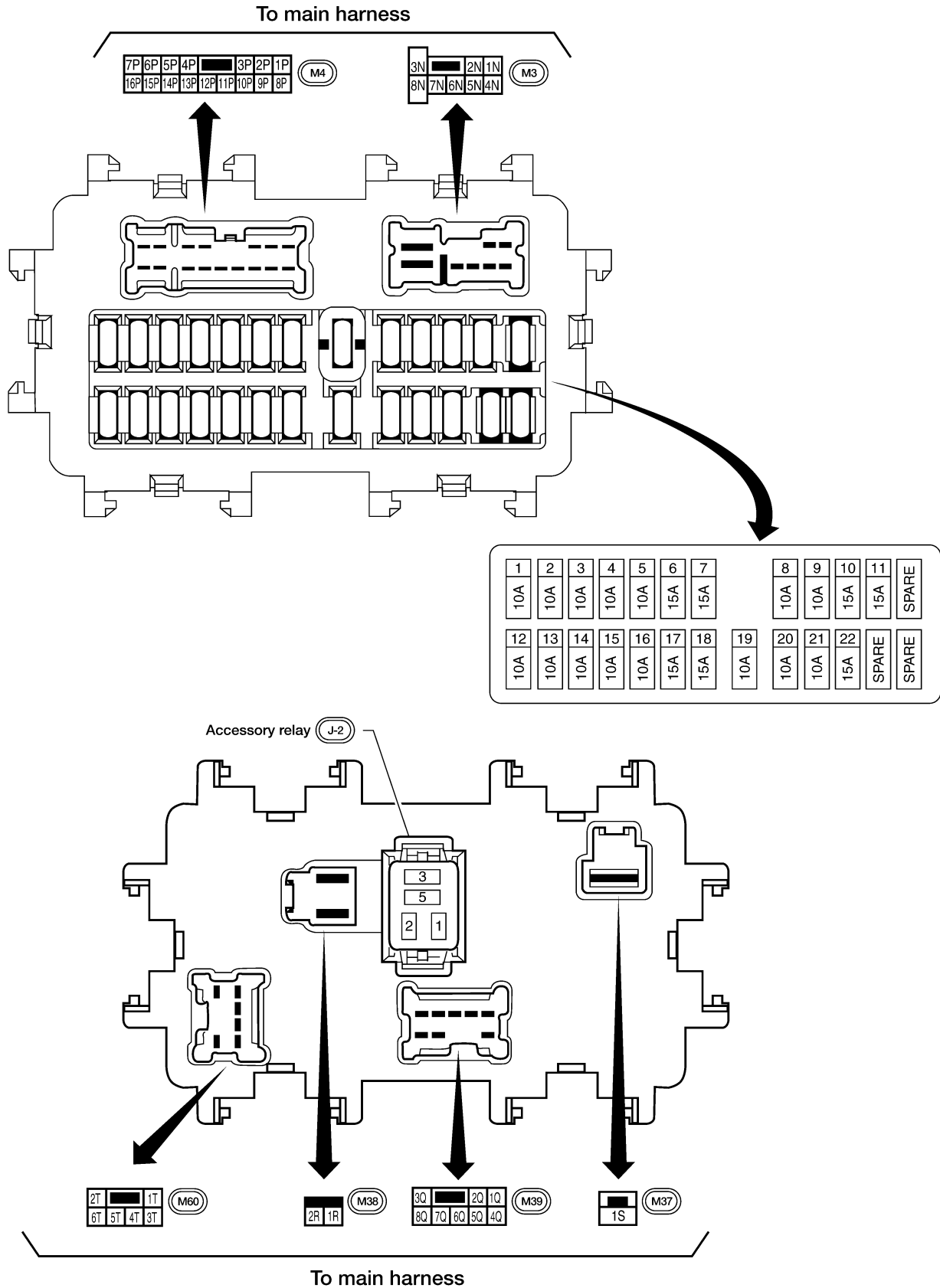
FUSE BLOCK-JUNCTION BOX(J/B)

PF024350

EKS00ART

FUSE BLOCK-JUNCTION BOX(J/B)

Terminal Arrangement



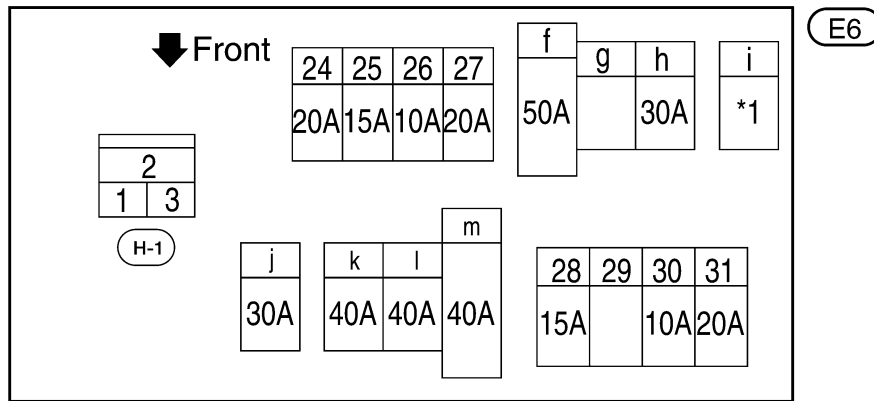
WKIA1706E

FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX Terminal Arrangement

PFP:24381

EKS00ARU



24 - 31: FUSE f - m: FUSIBLE LINK

*1 40A with VDC
30A without VDC

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

PG

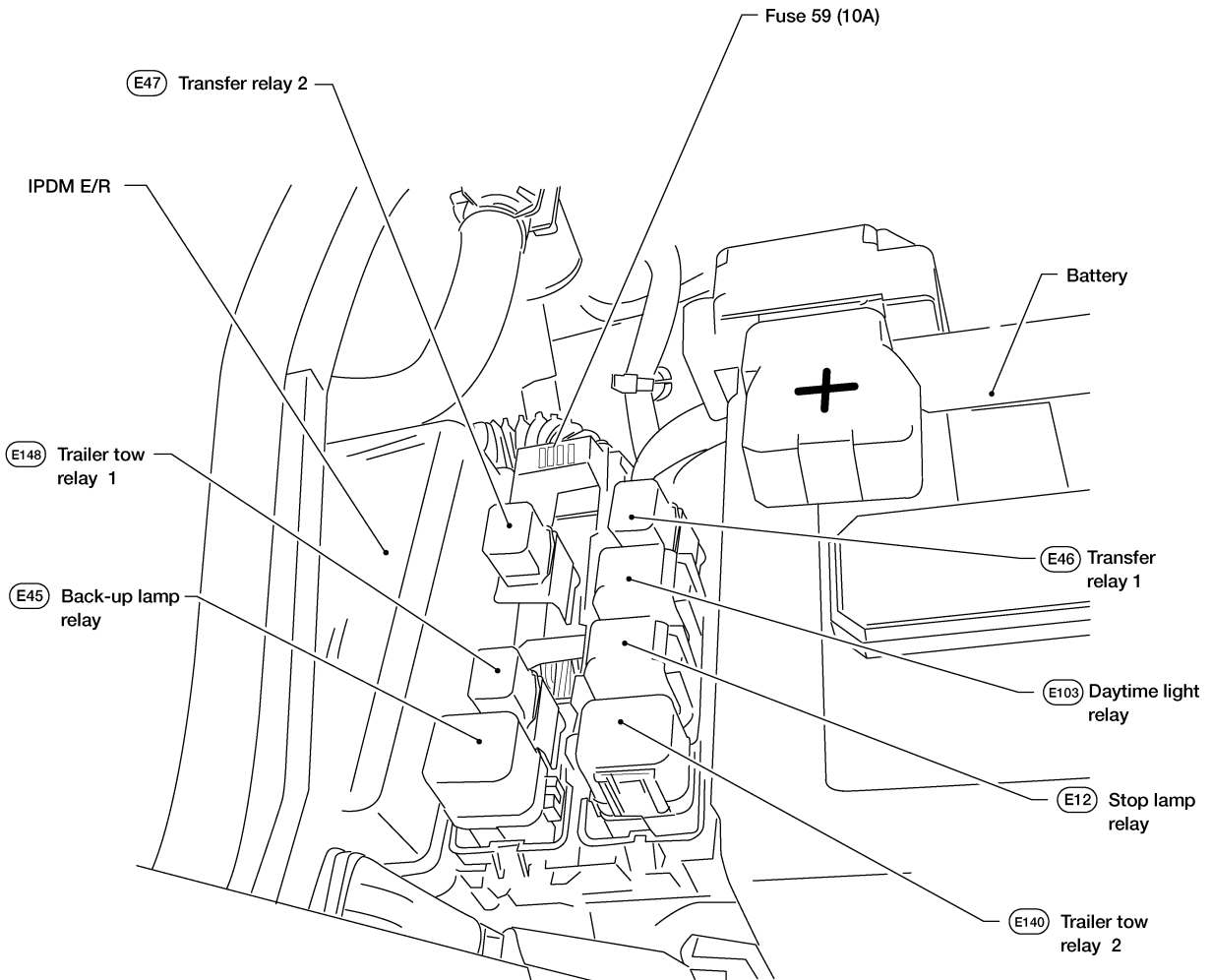
WKIA3891E

FUSE AND RELAY BOX

PFP:24012

EKS00ARV

FUSE AND RELAY BOX Terminal Arrangement



WKIA2870E