SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

SERVICE INFORMATION

PRECAUTIONS

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

INFOID:0000000003533829

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:

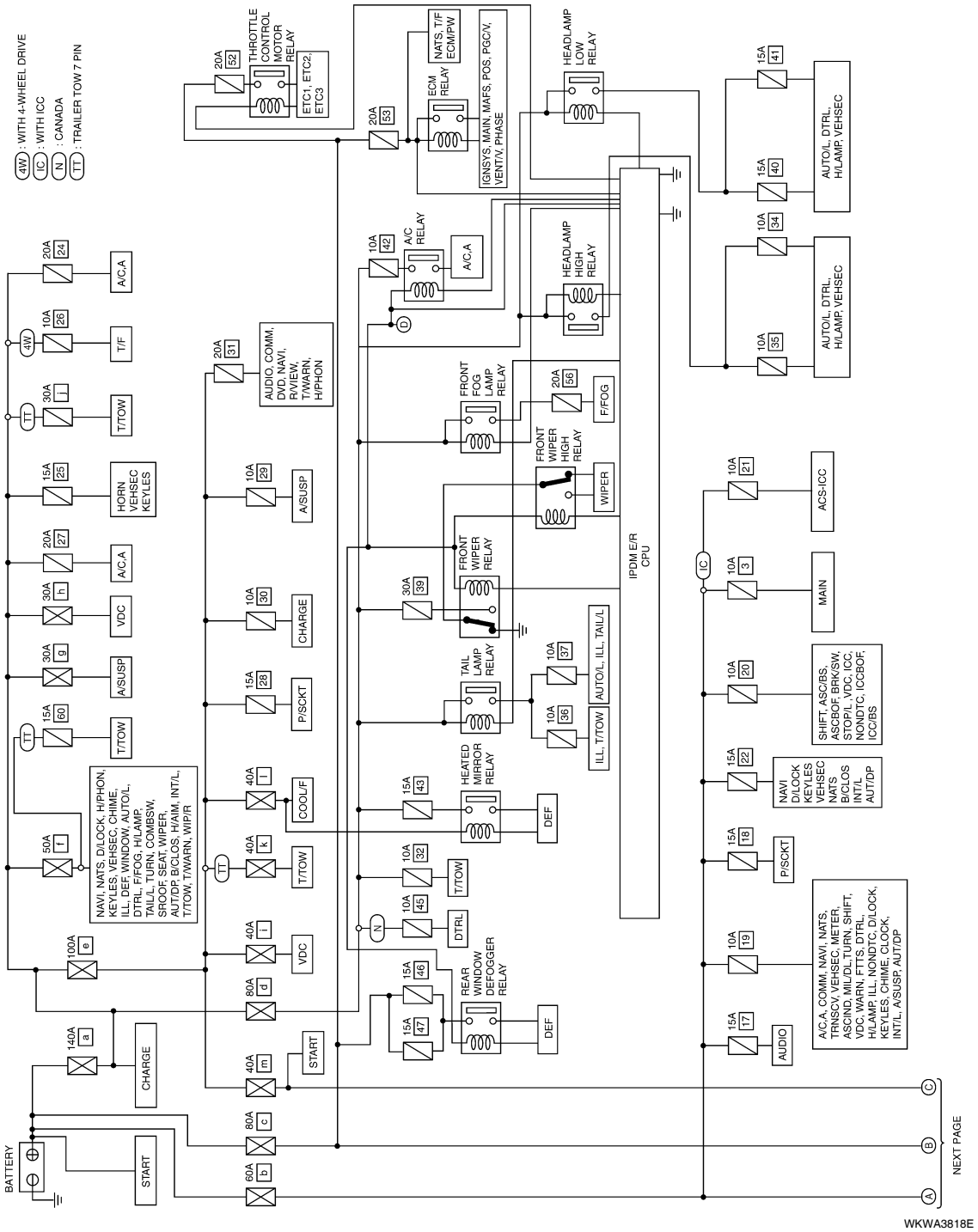
- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal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

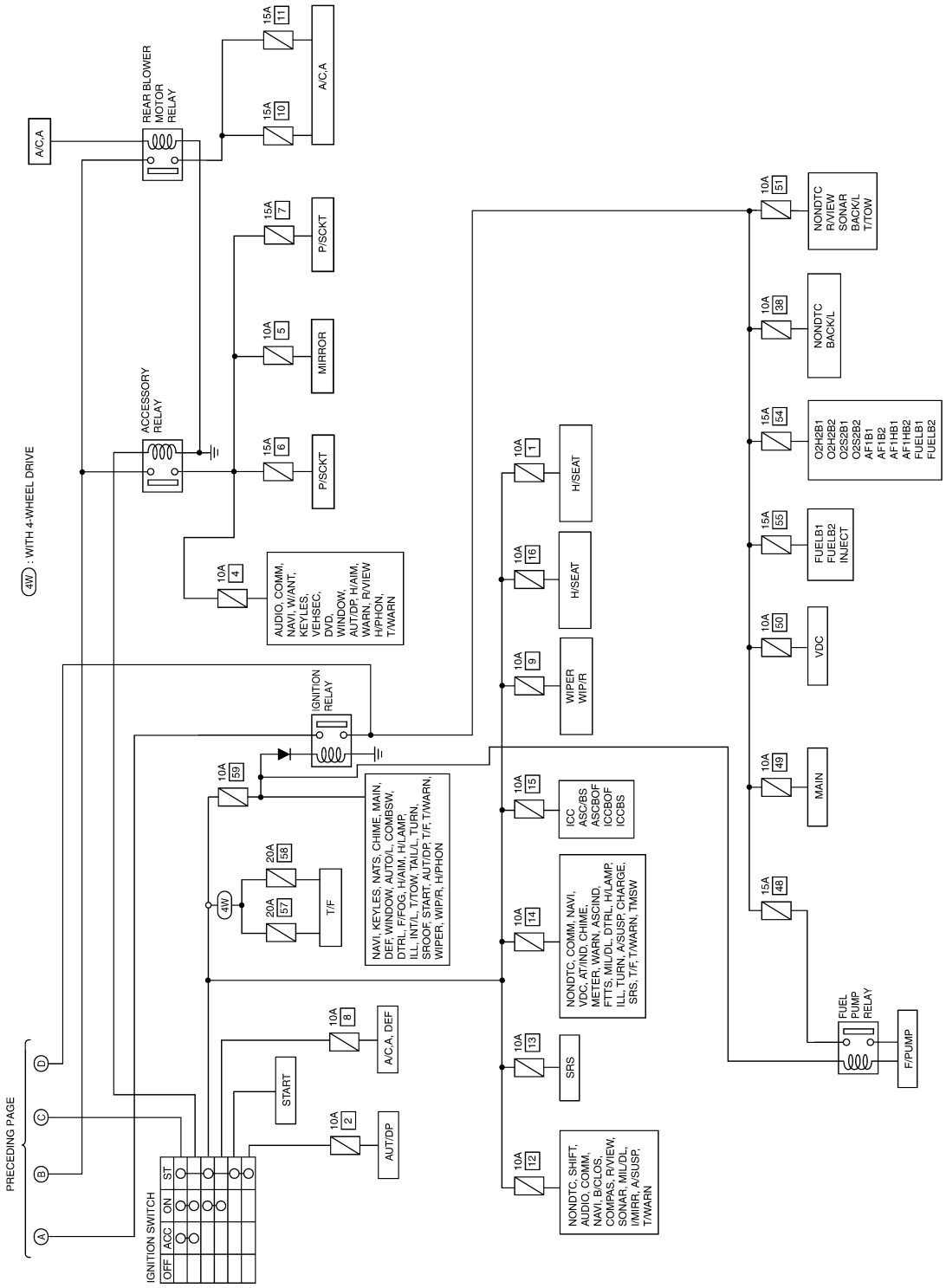
POWER SUPPLY ROUTING CIRCUIT

Schematic

INFOID:0000000003533830

For detailed ground distribution, refer to PG-29, "Ground Distribution".



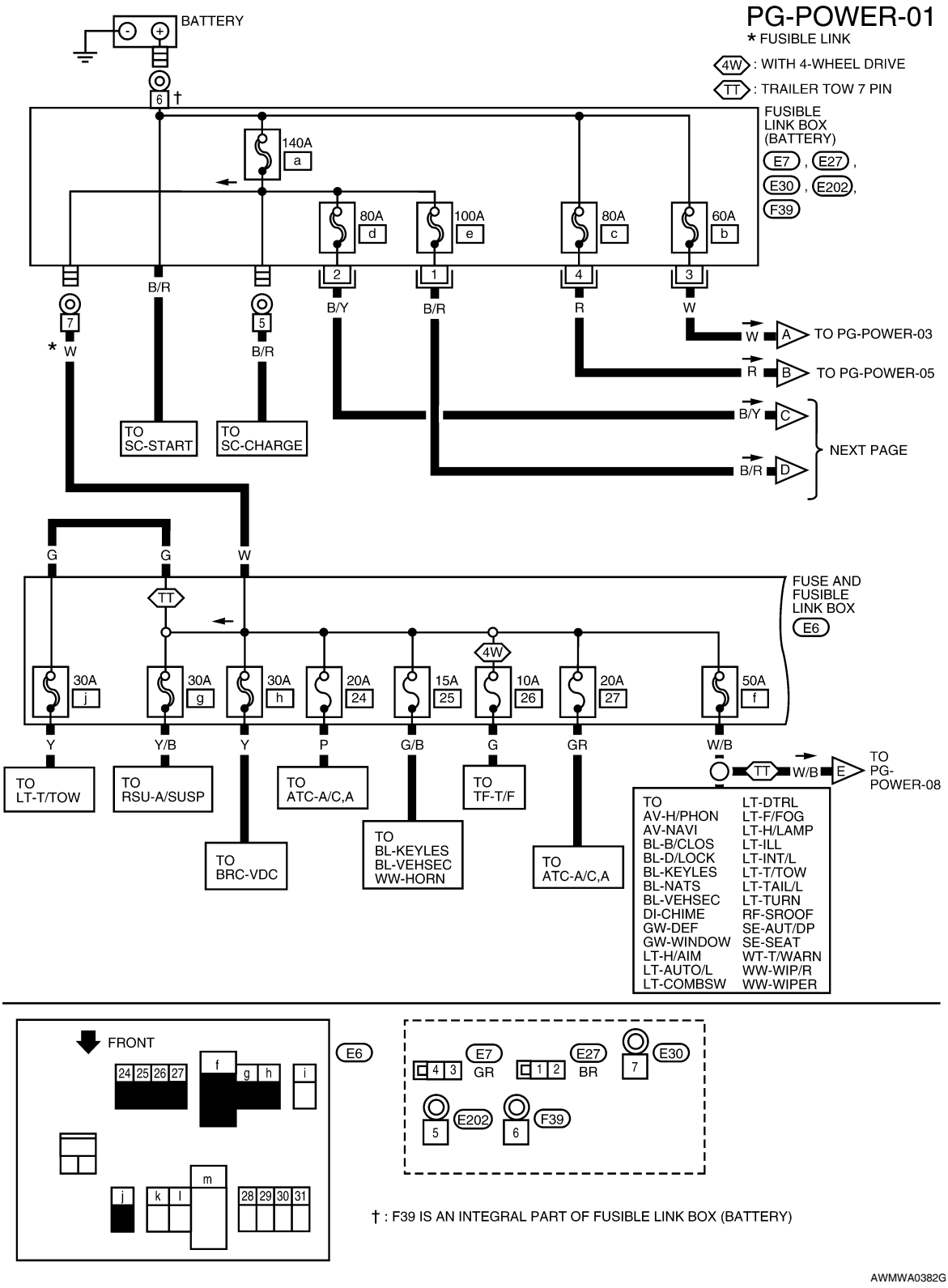

A/C,A
REAR BLOWER MOTOR RELAY
15A 11
15A 10
A/C,A
15A 7
P/SCKT
10A 5
MIRROR
ACCESSORY RELAY
15A 6
P/SCKT
10A 4
AUDIO, COMM, NAVI, W/ANT, KEYLES, VEHSEC, DVD, WINDOW, AUT/DP, H/AIM, WARN, R/VIEW H/PHON, T/WARN
4W : WITH 4-WHEEL DRIVE
IGNITION RELAY
10A 59
NAVI, KEYLES, NATS, CHIME, MAIN, DEF, WINDOW, AUTO/L, COMBSW, DTRL, F/FOG, H/AIM, H/LAMP, ILL, INT/L, T/TOW, TAIL/L, TURN, SROOF, START, AUT/DP, T/F, T/WARN, WIPER, WIP/R, H/PHON
4W
20A 58
20A 57
T/F
10A 8
A/C,A, DEF
START
10A 2
AUT/DP
PRECEDING PAGE
IGNITION SWITCH
OFF ACC ON ST
10A 1
H/SEAT
10A 16
H/SEAT
10A 9
WIPER WIP/R
10A 15
ICC ASC/BS ASCBOF ICCBOF ICCBS
10A 14
NONDTC, COMM, NAVI, VDC, AT/IND, CHIME, METER, WARN, ASCIND, FTTS, MIL/DL, DTRL, H/LAMP, ILL, TURN, A/SUSP, CHARGE, SRS, T/F, T/WARN, TMSW
10A 13
SRS
10A 12
NONDTC, SHIFT, AUDIO, COMM, NAVI, B/CLOS, COMPAS, R/VIEW, SONAR, MIL/DL, I/MIRR, A/SUSP, T/WARN
10A 51
NONDTC R/VIEW SONAR BACK/L T/TOW
10A 38
NONDTC BACK/L
15A 54
O2H2B1 O2H2B2 O2S2B1 O2S2B2 AF1B1 AF1B2 AF1HB1 AF1HB2 FUELB1 FUELB2
15A 55
FUELB1 FUELB2 INJECT
10A 50
VDC
10A 49
MAIN
15A 46
FUEL PUMP RELAY
F/PUMP

WKWA5431E

Wiring Diagram - POWER -

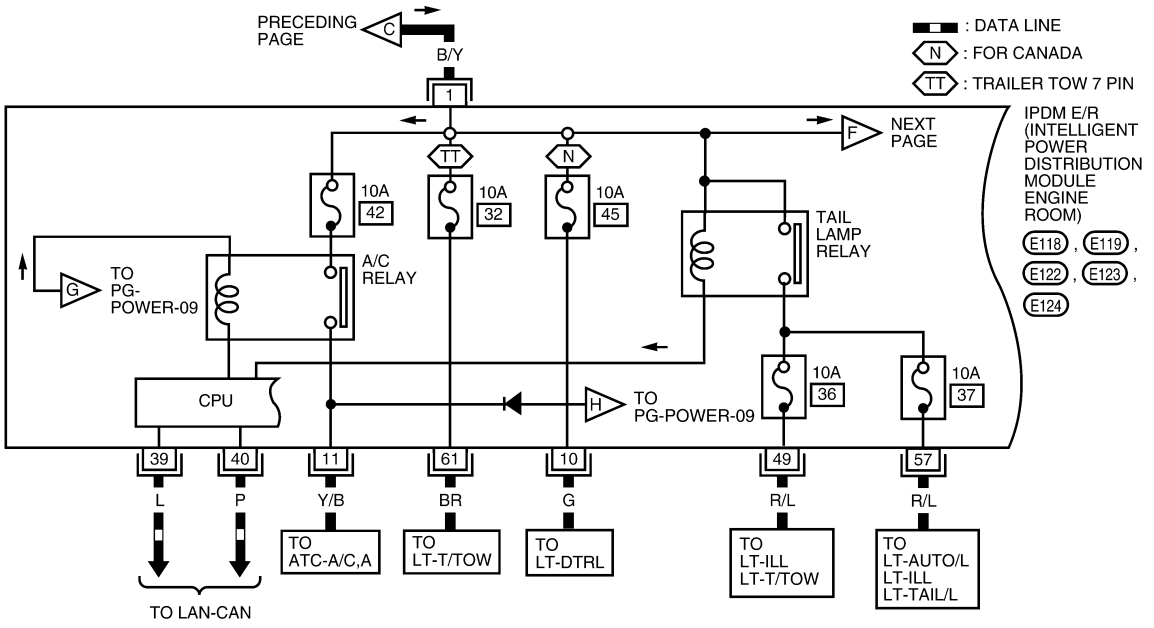
INFOID:0000000003533831

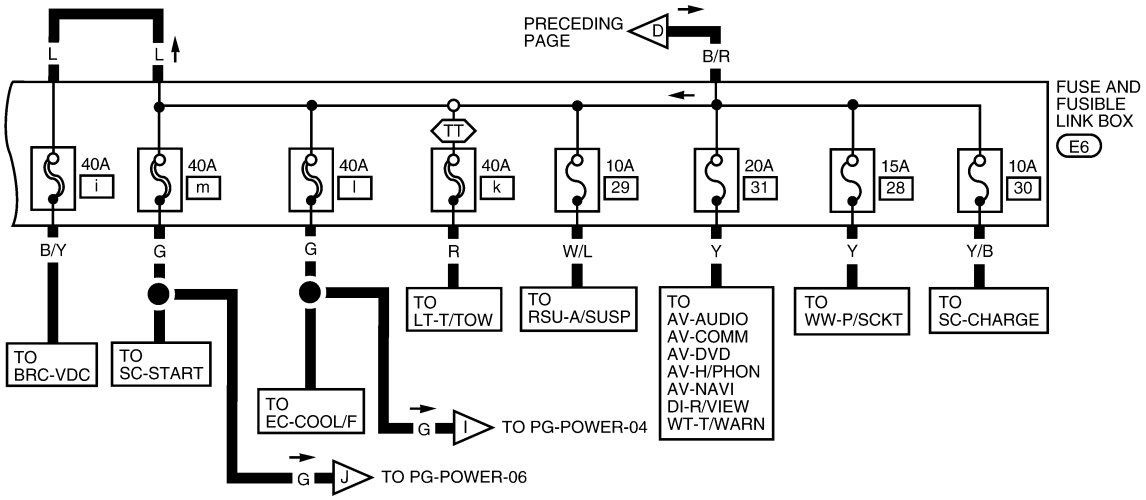
BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

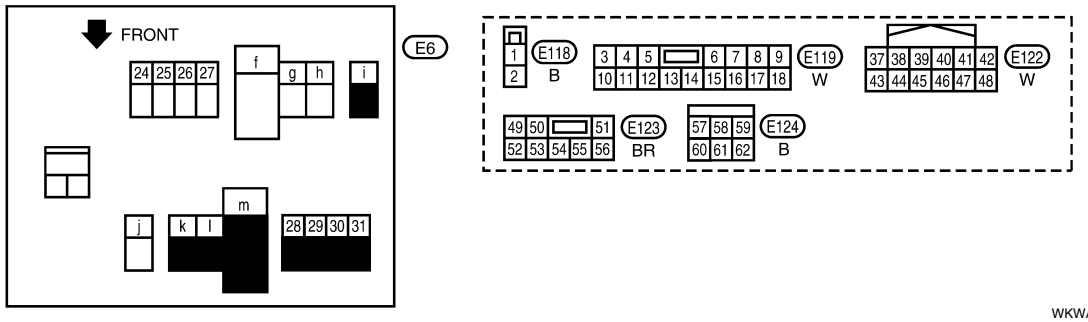


AWMWA0382G

PG-POWER-02

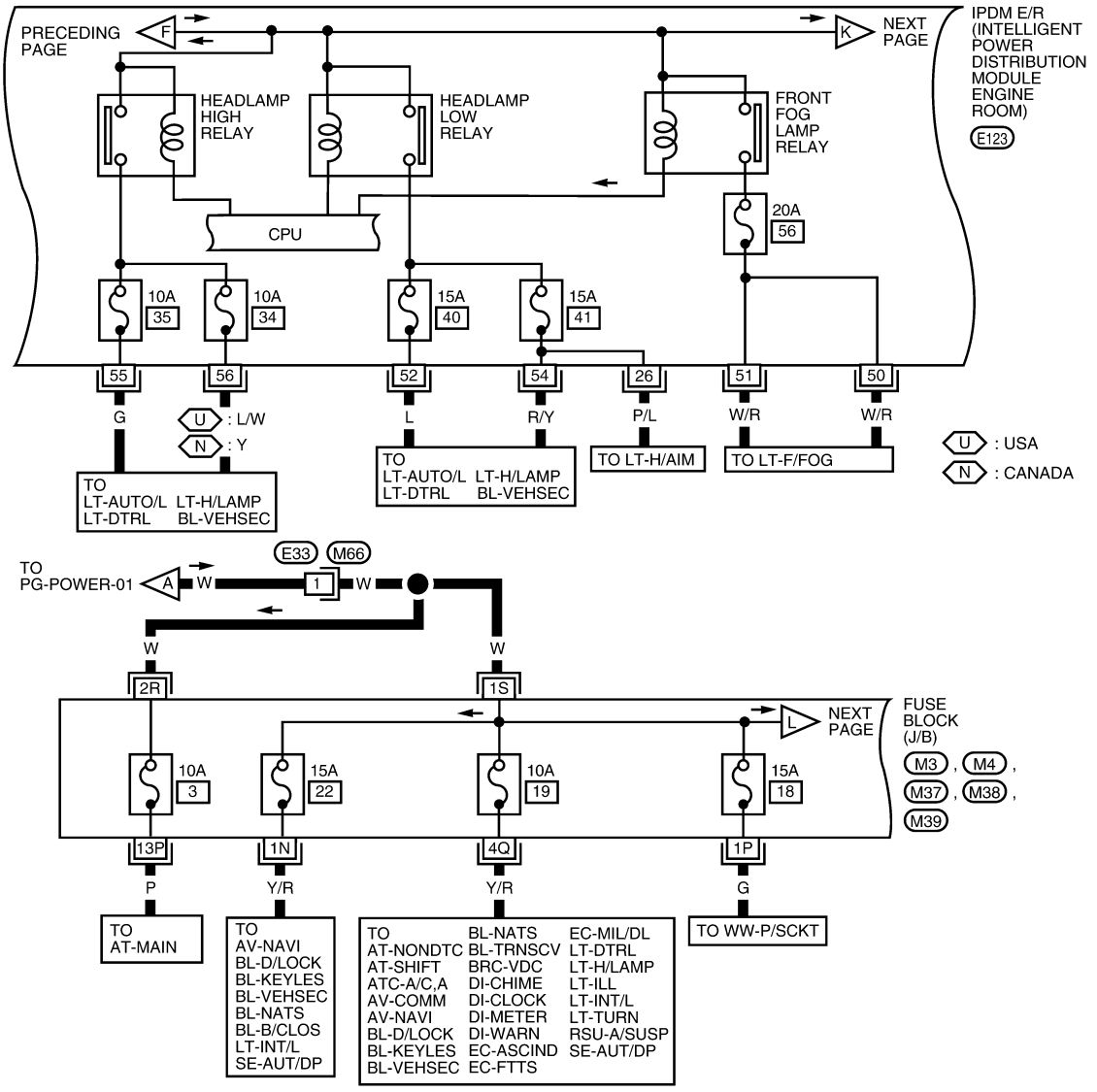


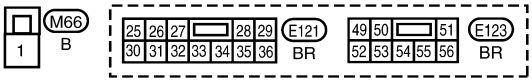


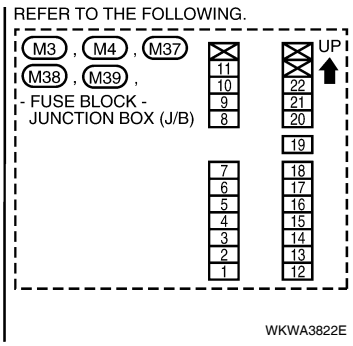


WKWA3821E

PG-POWER-03

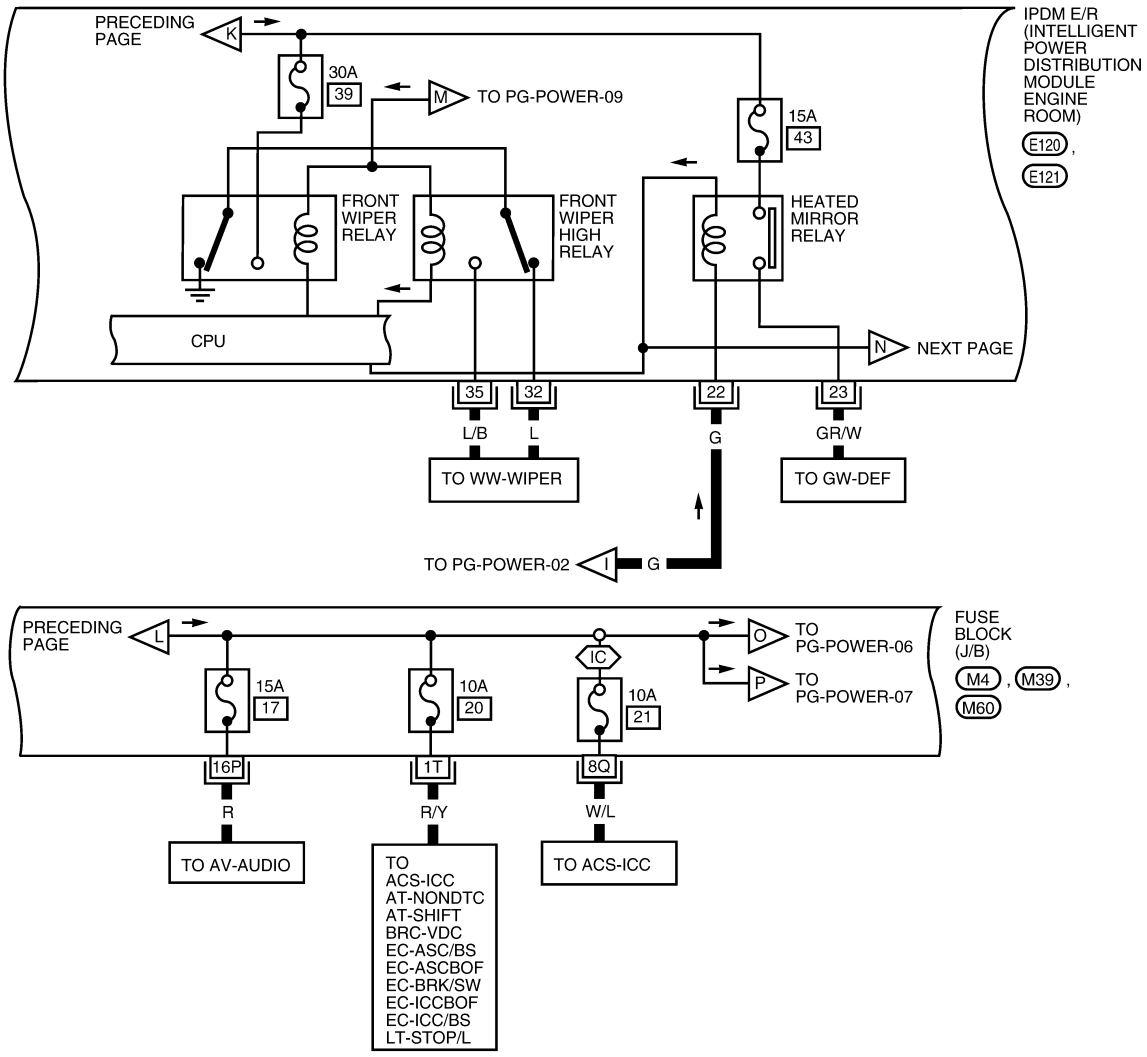

PRECEDING PAGE
F
K
NEXT PAGE
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E123
HEADLAMP HIGH RELAY
HEADLAMP LOW RELAY
FRONT FOG LAMP RELAY
CPU
20A 56
10A 35
10A 34
15A 40
15A 41
55
56
52
54
26
51
50
G
U : L/W
N : Y
L
R/Y
P/L
W/R
W/R
U : USA
N : CANADA
TO LT-AUTO/L LT-DTRL LT-H/LAMP BL-VEHSEC
TO LT-AUTO/L LT-DTRL LT-H/LAMP BL-VEHSEC
TO LT-H/AIM
TO LT-F/FOG
TO PG-POWER-01
A
W
E33
M66
1
W
W
W
2R
1S
L
NEXT PAGE
FUSE BLOCK (J/B)
M3, M4, M37, M38, M39
10A 3
15A 22
10A 19
15A 18
13P
1N
4Q
1P
P
Y/R
Y/R
G
TO AT-MAIN
TO AV-NAVI BL-D/LOCK BL-KEYLES BL-VEHSEC BL-NATS BL-B/CLOS LT-INT/L SE-AUT/DP
TO AT-NONDTC AT-SHIFT ATC-A/C,A AV-COMM AV-NAVI BL-D/LOCK BL-KEYLES BL-VEHSEC
BL-NATS BL-TRNSCV BRC-VDC DI-CHIME DI-CLOCK DI-METER DI-WARN EC-ASCIND EC-FTTS
EC-MIL/DL LT-DTRL LT-H/LAMP LT-ILL LT-INT/L LT-TURN RSU-A/SUSP SE-AUT/DP
TO WW-P/SCKT

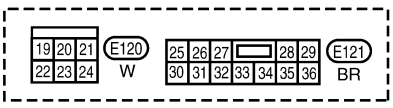

M66
B
1
25 26 27 28 29
30 31 32 33 34 35 36
E121
BR
49 50 51
52 53 54 55 56
E123
BR


REFER TO THE FOLLOWING.
M3, M4, M37
M38, M39,
- FUSE BLOCK - JUNCTION BOX (J/B)
UP
WKWA3822E

PG-POWER-04

IC : WITH ICC





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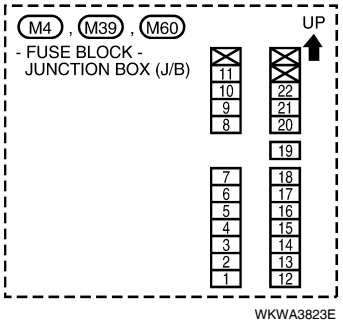

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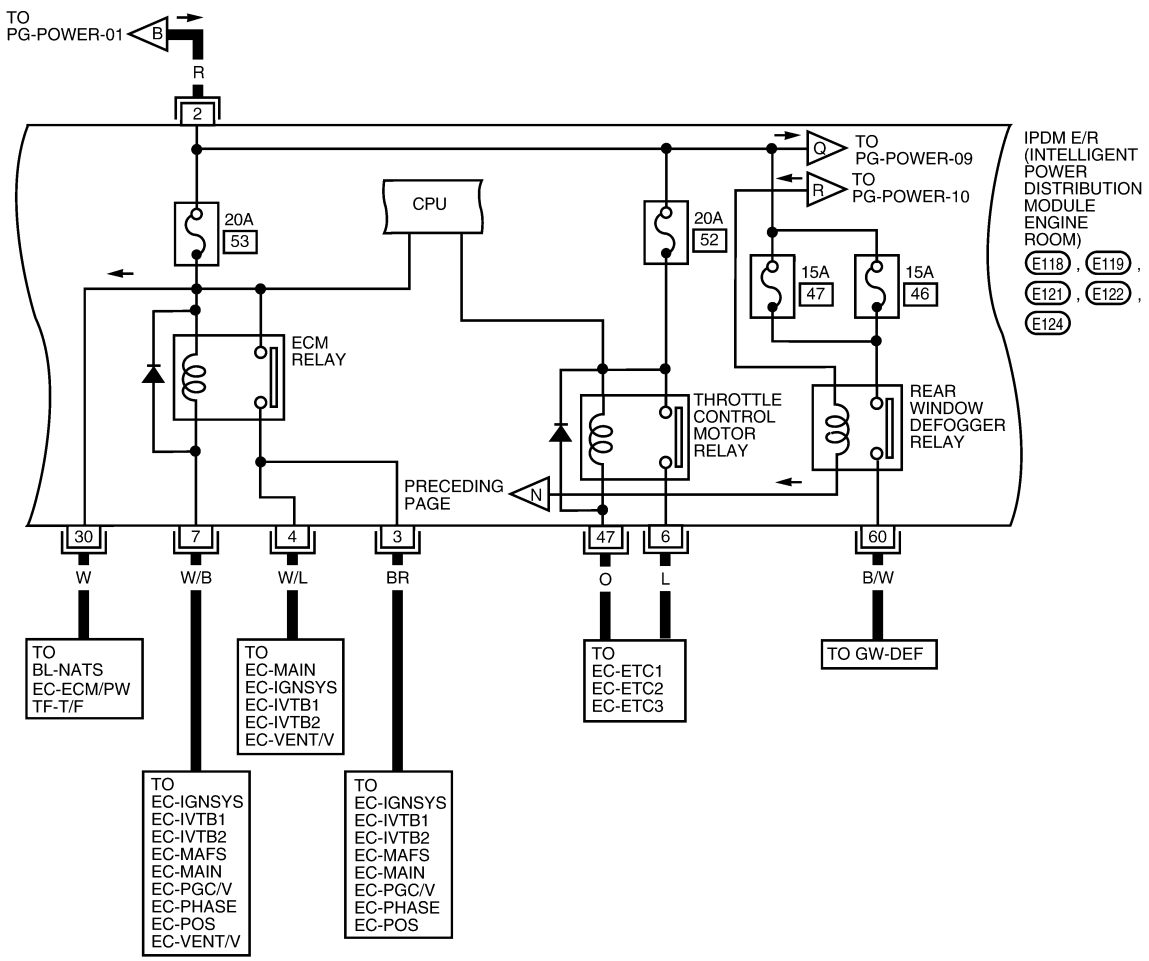
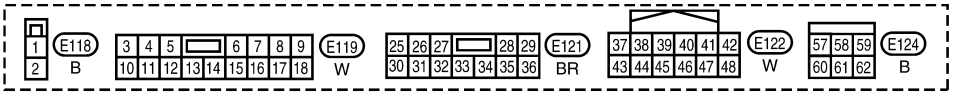
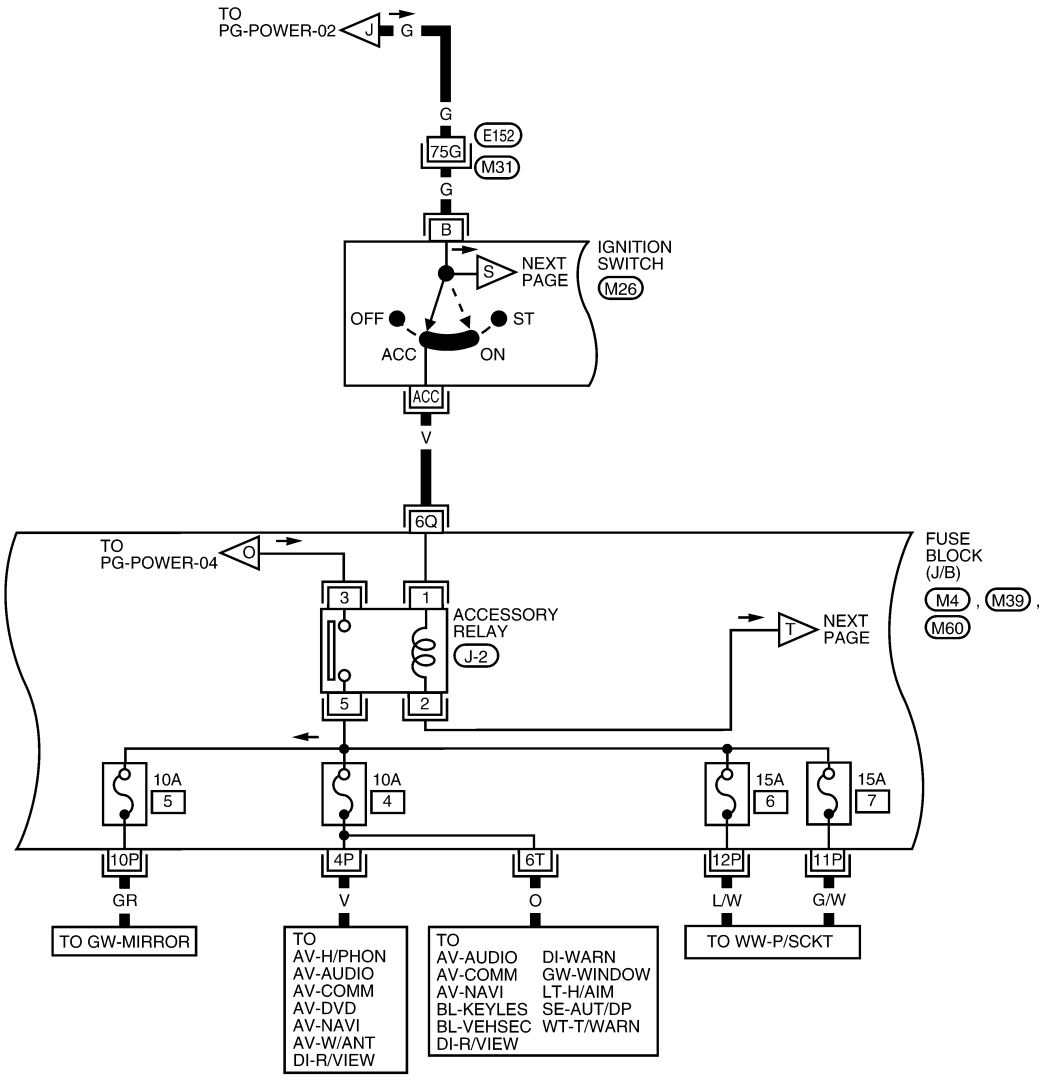
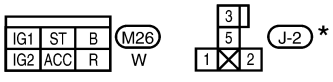

TO PG-POWER-01
B
R
2
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E118, E119, E121, E122, E124
Q
TO PG-POWER-09
R
TO PG-POWER-10
CPU
20A 53
20A 52
15A 47
15A 46
ECM RELAY
THROTTLE CONTROL MOTOR RELAY
REAR WINDOW DEFOGGER RELAY
PRECEDING PAGE
N
30 W
7 W/B
4 W/L
3 BR
47 O
6 L
60 B/W
TO BL-NATS EC-ECM/PW TF-T/F
TO EC-MAIN EC-IGNSYS EC-IVTB1 EC-IVTB2 EC-VENT/V
TO EC-ETC1 EC-ETC2 EC-ETC3
TO GW-DEF
TO EC-IGNSYS EC-IVTB1 EC-IVTB2 EC-MAFS EC-MAIN EC-PGC/V EC-PHASE EC-POS EC-VENT/V
TO EC-IGNSYS EC-IVTB1 EC-IVTB2 EC-MAFS EC-MAIN EC-PGC/V EC-PHASE EC-POS


E118 B
E119 W
E121 BR
E122 W
E124 B

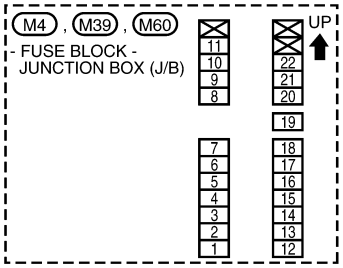
WKWA5481E



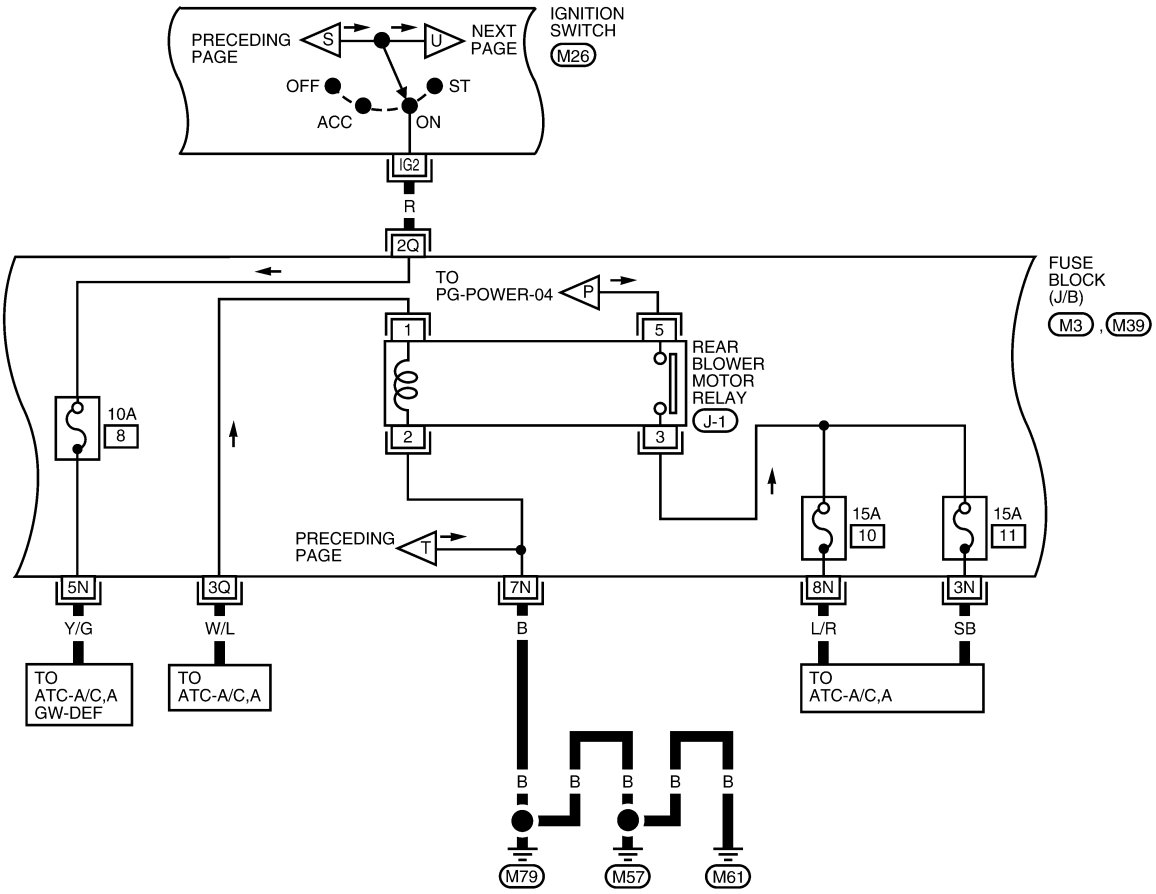


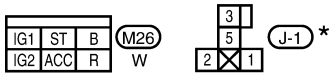
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

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



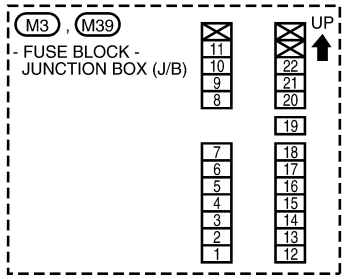
AWMWA0420G





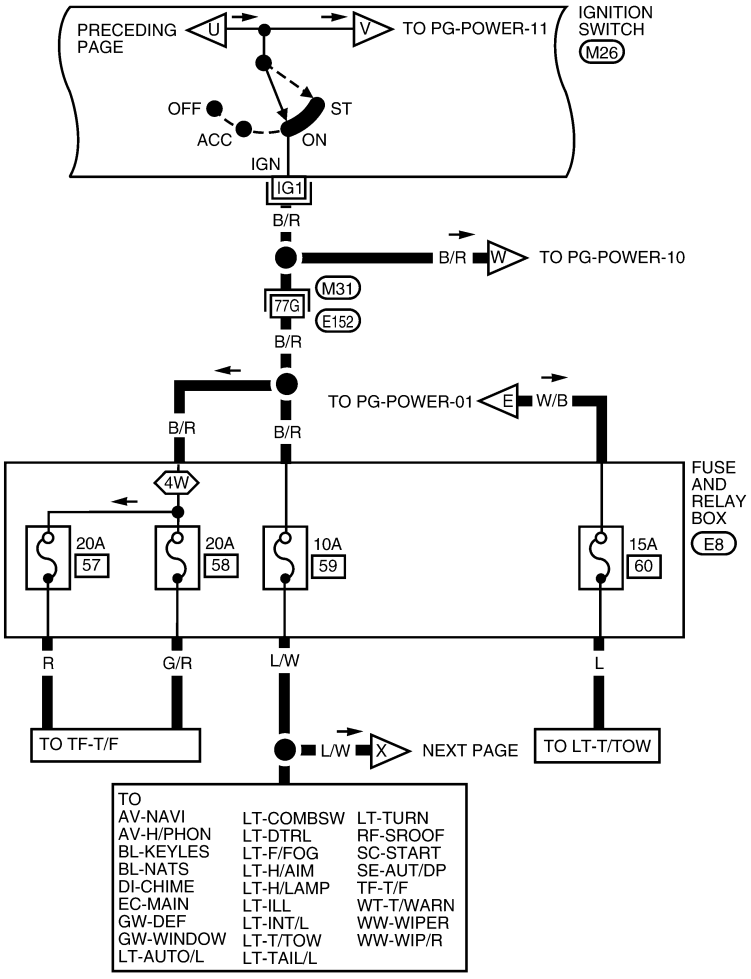
*: THIS CONNECTOR IS NOT SHOWN IN “HARNESS LAYOUT”.

REFER TO THE FOLLOWING.



WKWA3826E

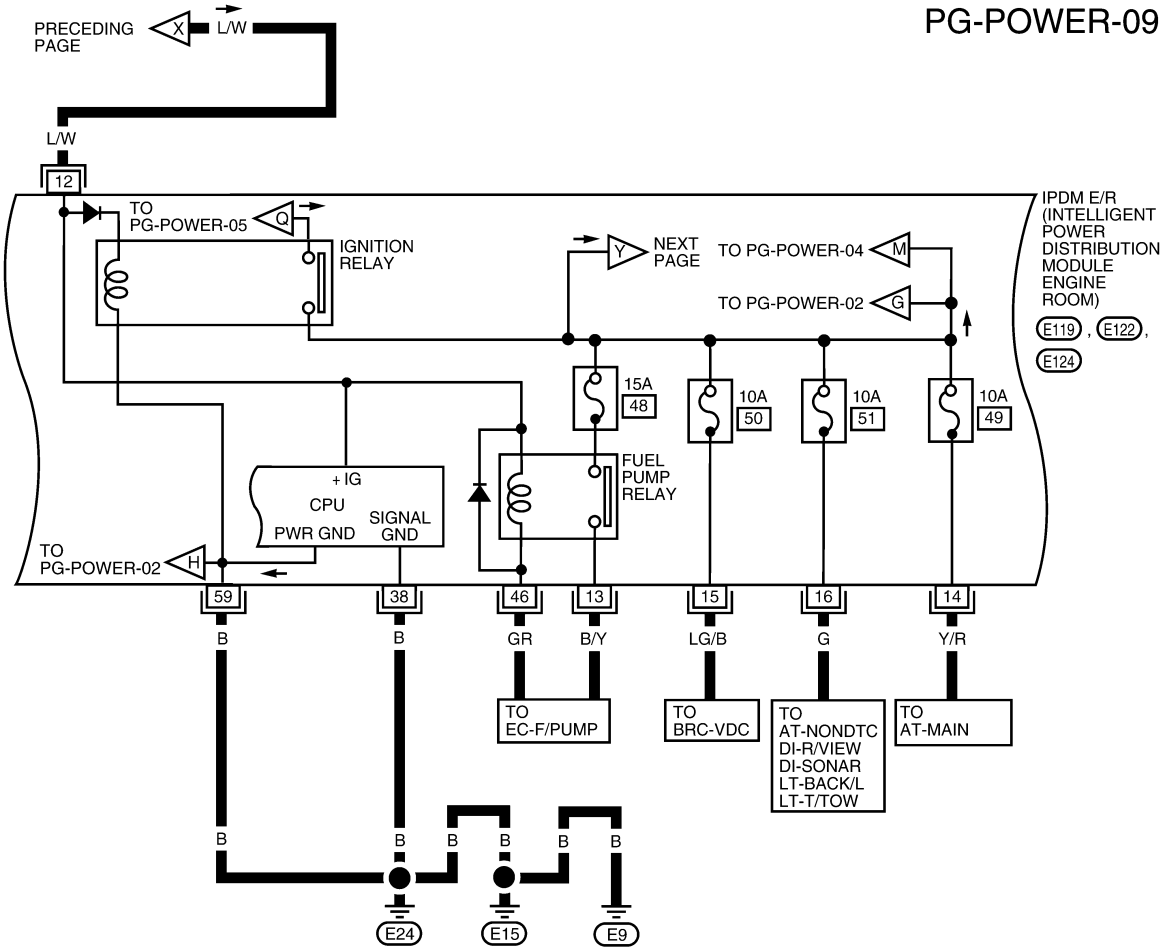
4W : WITH 4-WHEEL DRIVE

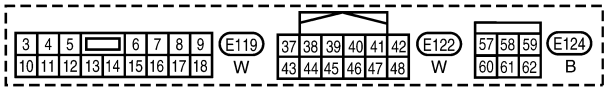


REFER TO THE FOLLOWING.
M31 - SUPER MULTIPLE JUNCTION (SMJ)

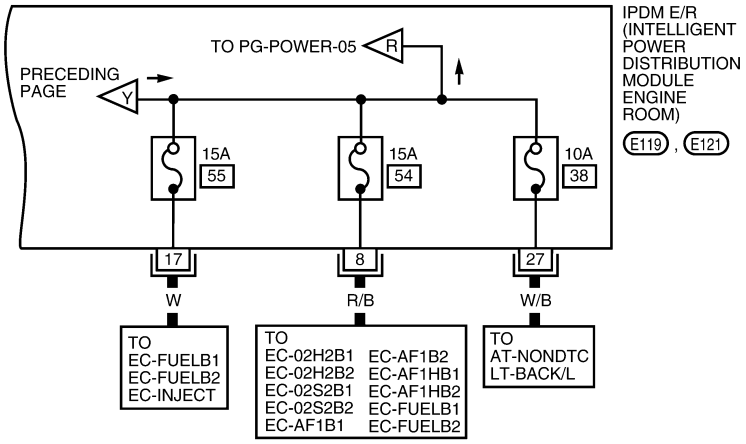
WKWA3827E

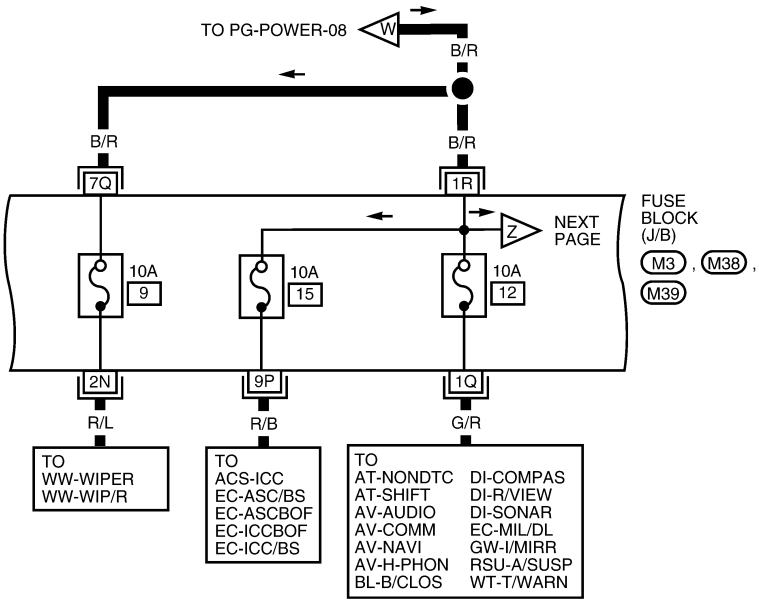
PG-POWER-09

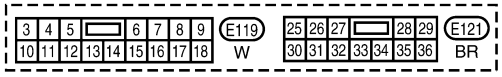




WKWA3828E







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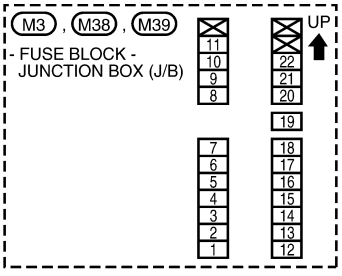

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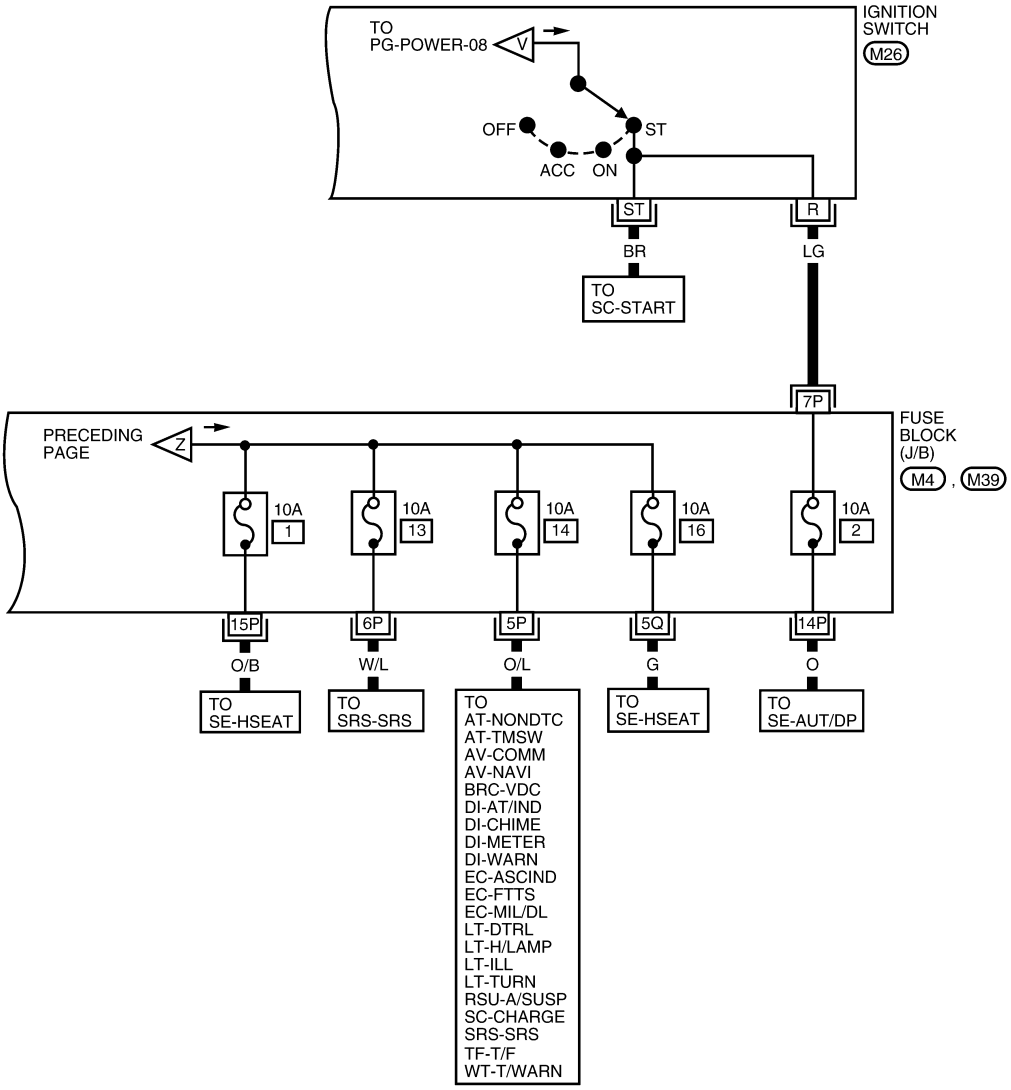

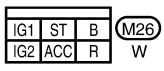

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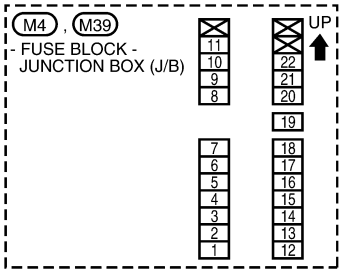
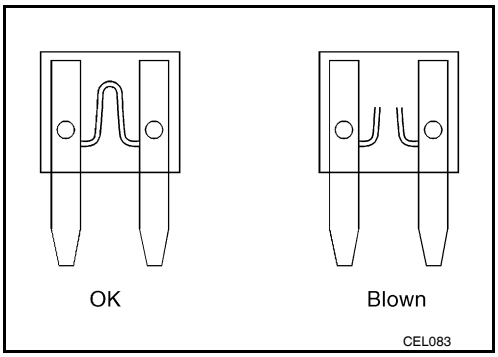


WKWA3830E

Fuse

INFOID:0000000003533832

- 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

INFOID:0000000003533833

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.**

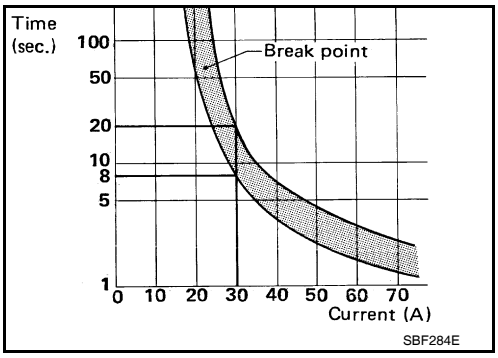
Circuit Breaker (Built Into BCM)

INFOID:0000000003533834

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

A circuit breaker is used for the following systems:

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



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

System Description

INFOID:0000000003533835

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

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

SYSTEMS CONTROLLED BY IPDM E/R

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

CAN COMMUNICATION LINE CONTROL

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

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

Controlled system	Fail-safe mode
Headlamp	• With the ignition switch ON, the headlamp (low) is ON. • With the ignition switch OFF, the headlamp (low) is OFF.
Tail and parking lamps	• 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	• 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 STATUS CONTROL

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

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

CAN Communication System Description

INFOID:0000000003533836

Refer to LAN-4.

Function of Detecting Ignition Relay Malfunction

INFOID:0000000003533837

- 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.

CONSULT-II Function (IPDM E/R)

INFOID:0000000003533838

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 Start Procedure

Refer to GI-36, "CONSULT-II Start Procedure".

SELF-DIAGNOSTIC RESULTS

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	• 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: • 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

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

All Signals, Main Signals, Selection From Menu

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

Item name	CONSULT-II screen display	Display or unit	Monitor item selection			Description
			ALL SIGNALS	MAIN SIGNALS	SELECTION FROM MENU	
Theft warning horn request	THFT HRN REQ	ON/OFF	X		X	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	X		X	Output status of IPDM E/R
Daytime running lamp request	DTRL REQ	ON/OFF	X		X	Signal status input from BCM

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

CAN DIAG SUPPORT MNTR

Refer to LAN-4.

ACTIVE TEST

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

Auto Active Test

INFOID:0000000003533839

DESCRIPTION

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

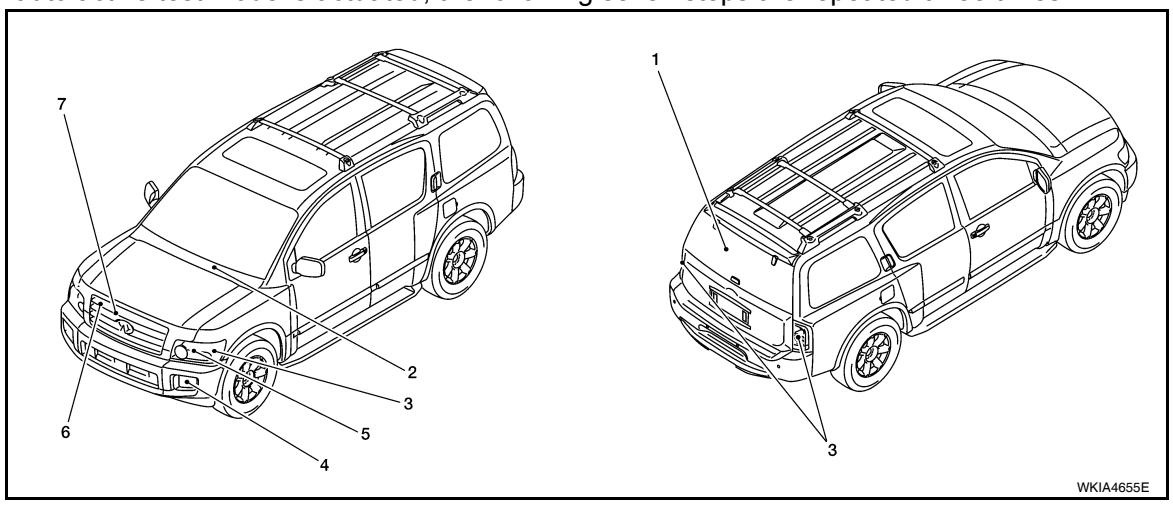
OPERATION PROCEDURE

1. Close hood and front door RH, and lift wiper arms away from windshield (to prevent glass damage by wiper operation).
   NOTE:
   When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn ignition switch OFF.
3. Turn ignition switch ON and, within 20 seconds, press front door switch LH 10 times. Then turn ignition switch OFF.
4. Turn ignition switch ON within 10 seconds after ignition switch OFF.
5. When auto active test mode is actuated, horn chirps once.
6. After a series of operations is repeated three times, auto active test is completed.
   NOTE:
   When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:
Be sure to perform BL-25, "Door Switch Check" when the auto active test cannot be performed.

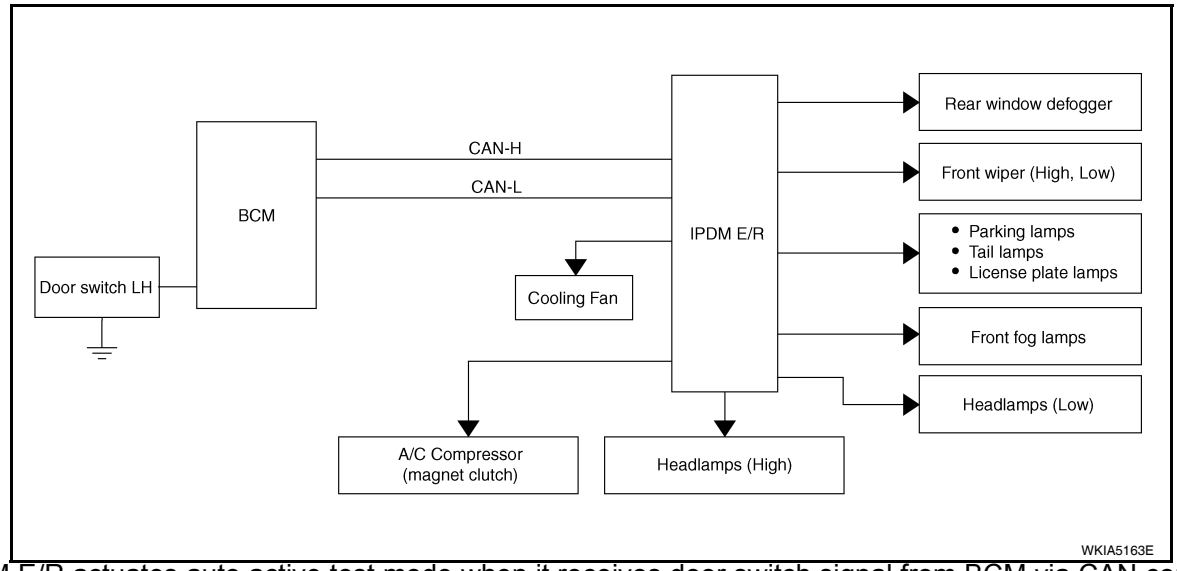
INSPECTION IN AUTO ACTIVE TEST MODE

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



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

Concept of Auto Active Test



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

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
Rear window defogger does not operate.	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 (Hi, Lo) 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
A/C compressor does not operate.	Perform auto active test. Does magnet clutch operate?	YES	• BCM signal input circuit • CAN communication signal between BCM and ECM • CAN communication signal between ECM and IPDM E/R
		NO	• Magnet clutch malfunction • Harness/connector malfunction between IPDM E/R and magnet clutch • IPDM E/R (integrated relay) malfunction
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	YES	• ECM signal input circuit • CAN communication signal between ECM and IPDM E/R
		NO	• Cooling fan motor malfunction • Harness/connector malfunction between IPDM E/R and cooling fan motor • IPDM E/R (integrated relay) malfunction

Terminal and Reference Value for IPDM E/R

INFOID:0000000003533840

Terminal	Wire color	Signal name	Signal input/ output	Measuring condition		Reference value (Approx.)
				Ignition switch	Operation or condition	
1	B/Y	Battery power supply	Input	OFF	—	Battery voltage
2	R	Battery power supply	Input	OFF	—	Battery voltage
3	BR	ECM relay	Output	—	Ignition switch ON or START	Battery voltage
					Ignition switch OFF or ACC	0V
4	W/L	ECM relay	Output	—	Ignition switch ON or START	Battery voltage
					Ignition switch OFF or ACC	0V
6	L	Throttle control motor relay	Output	—	Ignition switch ON or START	Battery voltage
					Ignition switch OFF or ACC	0V
7	W/B	ECM relay control	Input	—	Ignition switch ON or START	0V
					Ignition switch OFF or ACC	Battery voltage
8	R/B	Fuse 54	Output	—	Ignition switch ON or START	Battery voltage
					Ignition switch OFF or ACC	0V
10	G	Daytime light relay control	Output	ON	Daytime light system active	0V
					Daytime light system inactive	Battery voltage
11	Y/B	A/C compressor	Output	ON or START	A/C switch ON or defrost A/C switch	Battery voltage
					A/C switch OFF or defrost A/C switch	0V

Terminal	Wire color	Signal name	Signal input/ output	Measuring condition			Reference value (Approx.)
				Ignition switch	Operation or condition		
12	L/W	Ignition switch supplied power	Input	—	OFF or ACC		0V
					ON or START		Battery voltage
13	B/Y	Fuel pump relay	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
14	Y/R	Fuse 49	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
15	LG/B	Fuse 50	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
16	G	Fuse 51	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
17	W	Fuse 55	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
19	W/R	Starter motor	Output	START	—		Battery voltage
21	BR	Ignition switch supplied power	Input	—	OFF or ACC		0V
					START		Battery voltage
22	G	Battery power supply	Output	OFF	—		Battery voltage
23	GR/W	Door mirror defogger output signal	Output	—	When rear defogger switch is ON		Battery voltage
					When rear defogger switch is OFF		0V
24	L/B	Cooling fan relay	Output	—	Conditions correct for cooling fan operation		Battery voltage
					Conditions not correct for cooling fan operation		0V
26	P/L	Headlamp aiming motors	Output	—	Lighting switch 2nd position, or AUTO, headlamp aiming switch in position	OFF	Battery voltage
						ON	0V
27	W/B	Fuse 38	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
30	W	Fuse 53	Output	—	Ignition switch ON or START		Battery voltage
					Ignition switch OFF or ACC		0V
32	L	Wiper low speed signal	Output	ON or START	Wiper switch	OFF	Battery voltage
						LO or INT	0V
35	L/B	Wiper high speed signal	Output	ON or START	Wiper switch	OFF, LO, INT	Battery voltage
						HI	0V
38	B	Ground	Input	—	—		0V
39	L	CAN-L	—	ON	—		—
40	P	CAN-H	—	ON	—		—
41	Y/B	Hood switch	Input	—	Hood closed	OFF	0V
					Hood open	ON	Battery voltage

Terminal	Wire color	Signal name	Signal input/ output	Measuring condition			Reference value (Approx.)
				Ignition switch	Operation or condition		
43	L/Y	Wiper auto stop signal	Input	ON or START	Wiper switch	OFF, LO, INT	Battery voltage
44	BR	Daytime light relay control	Input	ON	Daytime light system active		0V
					Daytime light system inactive		Battery voltage
45	G/W	Horn relay control	Input	ON	When door locks are operated using key fob (OFF → ON)*1		Battery voltage → 0V
46	GR	Fuel pump relay control	Input	—	Ignition switch ON or START		0V
					Ignition switch OFF or ACC		Battery voltage
47	O	Throttle control motor relay control	Input	—	Ignition switch ON or START		0V
					Ignition switch OFF or ACC		Battery voltage
48	B/R	Starter relay (inhibit switch)	Input	ON or START	Selector lever in "P" or "N"		0V
					Selector lever any other position		Battery voltage
49	R/L	Trailer tow relay	Output	ON	Lighting switch must be in the 1st position	OFF	0V
						ON	Battery voltage
50	W/R	Front fog lamp (LH)	Output	ON or START	Lighting switch must be in the 2nd position (LOW beam is ON) and the front fog lamp switch	OFF	0V
						ON	Battery voltage
51	W/R	Front fog lamp (RH)	Output	ON or START	Lighting switch must be in the 2nd position (LOW beam is ON) and the front fog lamp switch	OFF	0V
						ON	Battery voltage
52	L	LH low beam headlamp	Output	—	Lighting switch in 2nd position		Battery voltage
54	R/Y	RH low beam headlamp	Output	—	Lighting switch in 2nd position		Battery voltage
55	G	LH high beam headlamp	Output	—	Lighting switch in 2nd position and placed in HIGH or PASS position		Battery voltage
56	L/W*2 Y*3	LH high beam headlamp	Output	—	Lighting switch in 2nd position and placed in HIGH or PASS position		Battery voltage
57	R/L	Parking, license, and tail lamp	Output	ON	Lighting switch 1st position	OFF	0V
						ON	Battery voltage
59	B	Ground	Input	—	—		0V
60	B/W	Rear window defogger relay	Output	ON or START	Rear defogger switch ON		Battery voltage
					Rear defogger switch OFF		0V

Terminal	Wire color	Signal name	Signal input/ output	Measuring condition		Reference value (Approx.)
				Igni- tion switch	Operation or condition	
61	BR	Fuse 32	Output	—	Ignition switch ON or START	Battery voltage
					Ignition switch OFF or ACC	0V

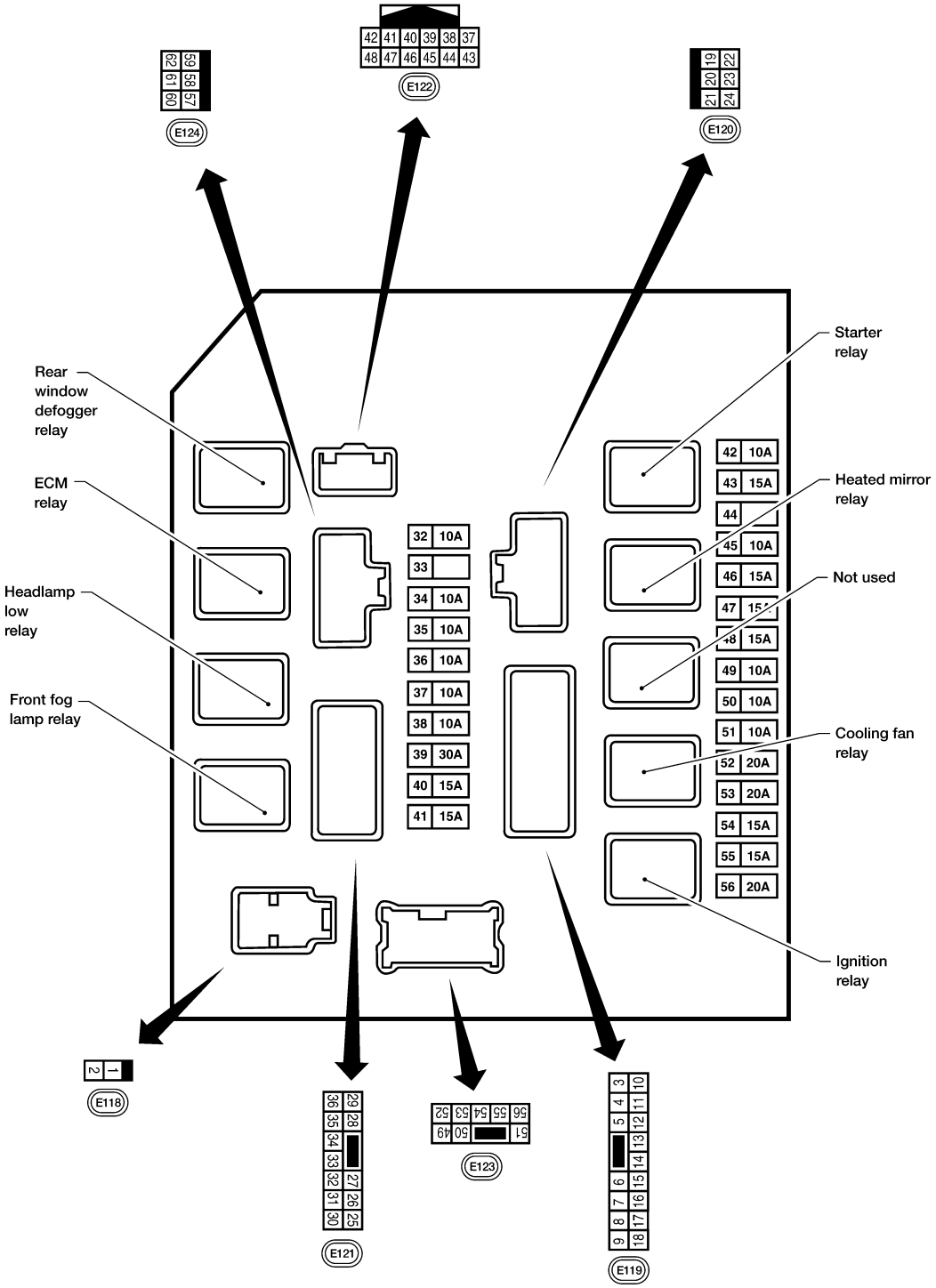
*1: When horn reminder is ON

*2: L/W is for U.S.A.

*3: Y is for Canada

IPDM E/R Terminal Arrangement

INFOID:0000000003533841



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IPDM E/R Power/Ground Circuit Inspection

INFOID:0000000003533842

1. FUSE AND FUSIBLE LINK INSPECTION

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

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

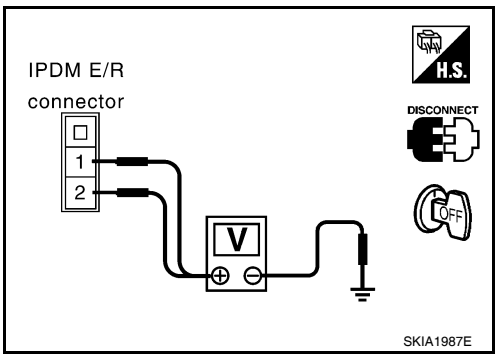
OK or NG

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

2.POWER CIRCUIT INSPECTION

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

Battery voltage should exist.



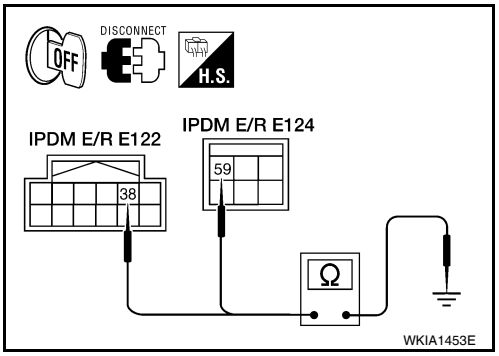
OK or NG

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

3.GROUND CIRCUIT INSPECTION

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

Continuity should exist.



OK or NG

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

Inspection with CONSULT-II (Self-Diagnosis)

INFOID:0000000003533843

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: • 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

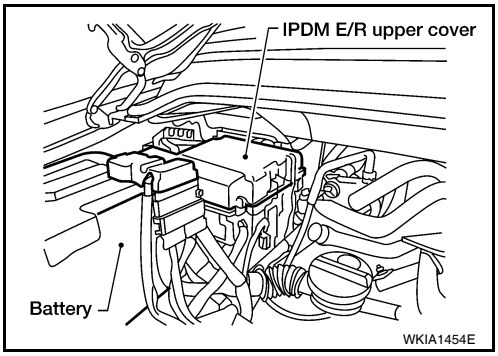
NO DTC DETECTED. FURTHER TESTING MAY BE REQUIRED.>>Inspection End.
CAN COMM CIRC>>Print out the self-diagnosis result and refer to LAN-40.

Removal and Installation of IPDM E/R

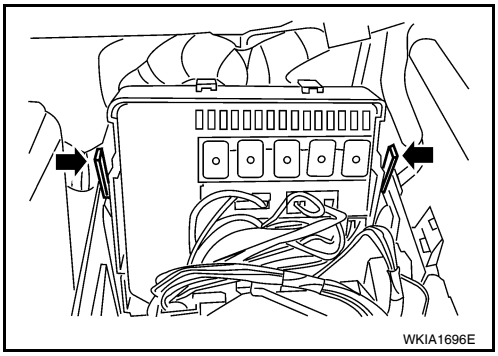
INFOID:0000000003533844

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

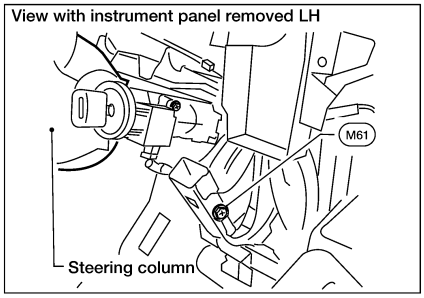
Installation is in the reverse order of removal.

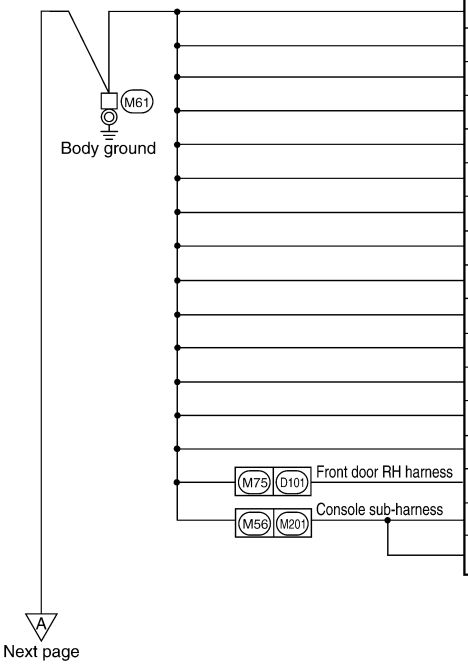
GROUND CIRCUIT

Ground Distribution

INFOID:0000000003533845

Main Harness





CONNECTOR NUMBER	CONNECT TO
M5	Illumination control switch
M16	ADP Steering switch
M20	BCM (Terminal No. 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
M112	BOSE speaker amp (Terminal No. 17)
M122	Variable blower control
M139	Diode-1
M148	Headlamp aiming switch
D107	Door mirror RH (door mirror defogger)
M203	A/T device (Terminal No. 2)
M203	A/T device (Terminal No. 8)

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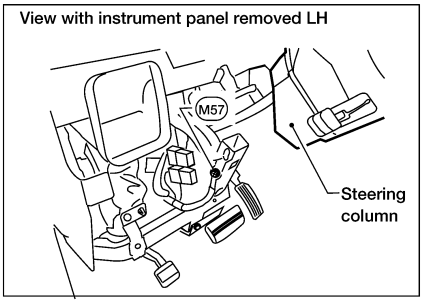

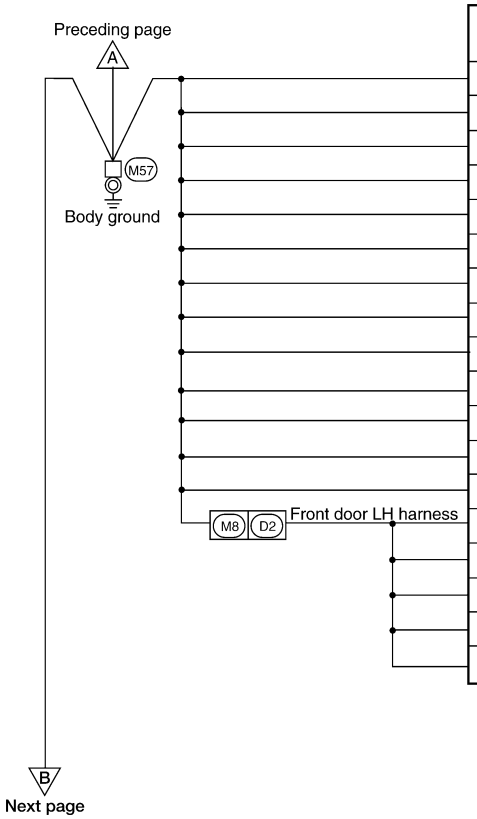

CONNECTOR NUMBER	CONNECT TO
M34	Automatic drive positioner control unit (Terminal No. 40)
M34	Automatic drive positioner control unit (Terminal No. 48)
M51	Trailer tow relay 1
M76	Electric brake (pre-wiring)
M87	Rear power vent window relay (open)
M89	Rear power vent window relay (close)
M92	Power liftgate switch
M93	Display unit (Terminal No. 1)
M94	Display control unit (Terminal No. 3)
M94	Display control unit (Terminal No. 13)
M96	Pedal adjusting switch
M116	Rear sonar system OFF switch (Terminal No. 6)
M116	Rear sonar system OFF switch (Terminal No. 2)
D4	Door mirror LH (door mirror defogger)
D5	Seat memory switch
D8	Main power window and door lock/unlock switch (Terminal No. 17)
D10	Door mirror remote control switch
D14	Front door lock assembly LH

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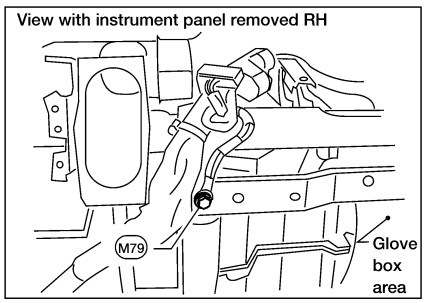
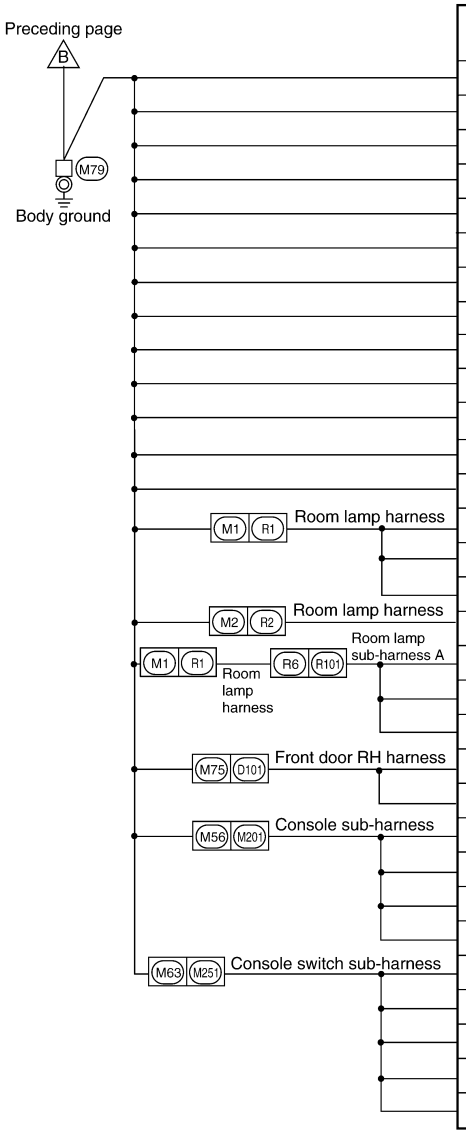
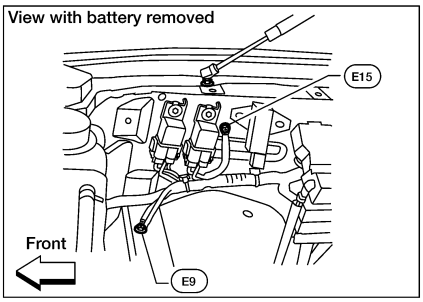


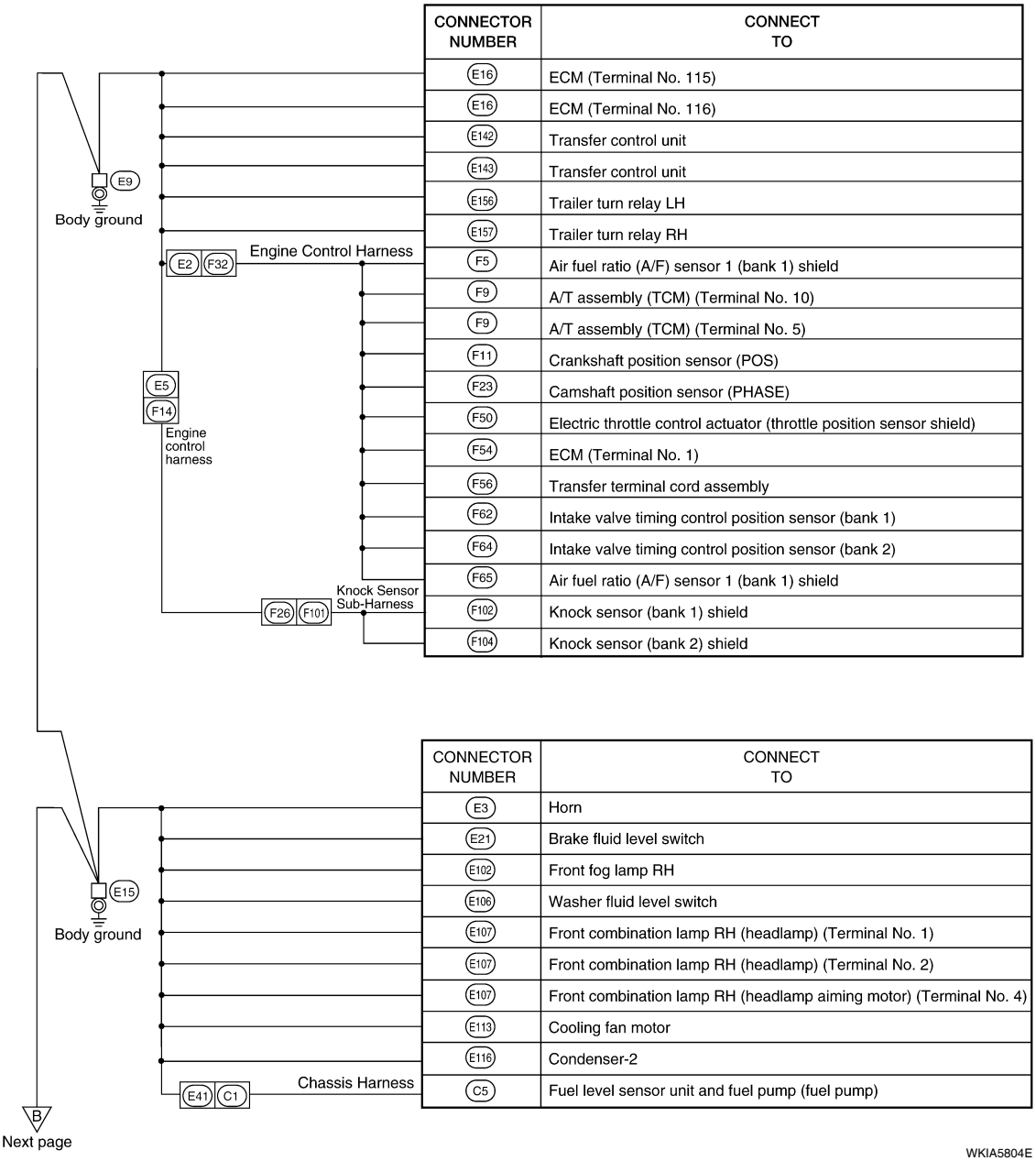


CONNECTOR NUMBER	CONNECT TO
M3	Fuse block J/B (Terminal No. 7N)
M13	Front passenger air bag off indicator
M49	Front air control (Terminal No. 1)
M52	Rear blower switch (front)
M53	Front power socket LH
M54	Front power socket RH (for cigarette lighter)
M55	Hazard switch
M59	Glove box lamp
M67	Tow mode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

WKIA4659E

Engine Room Harness

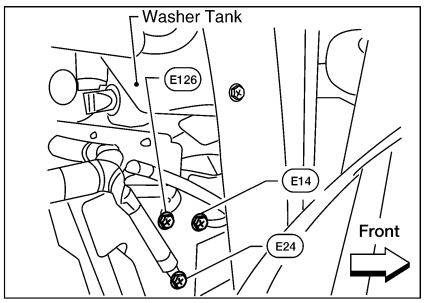


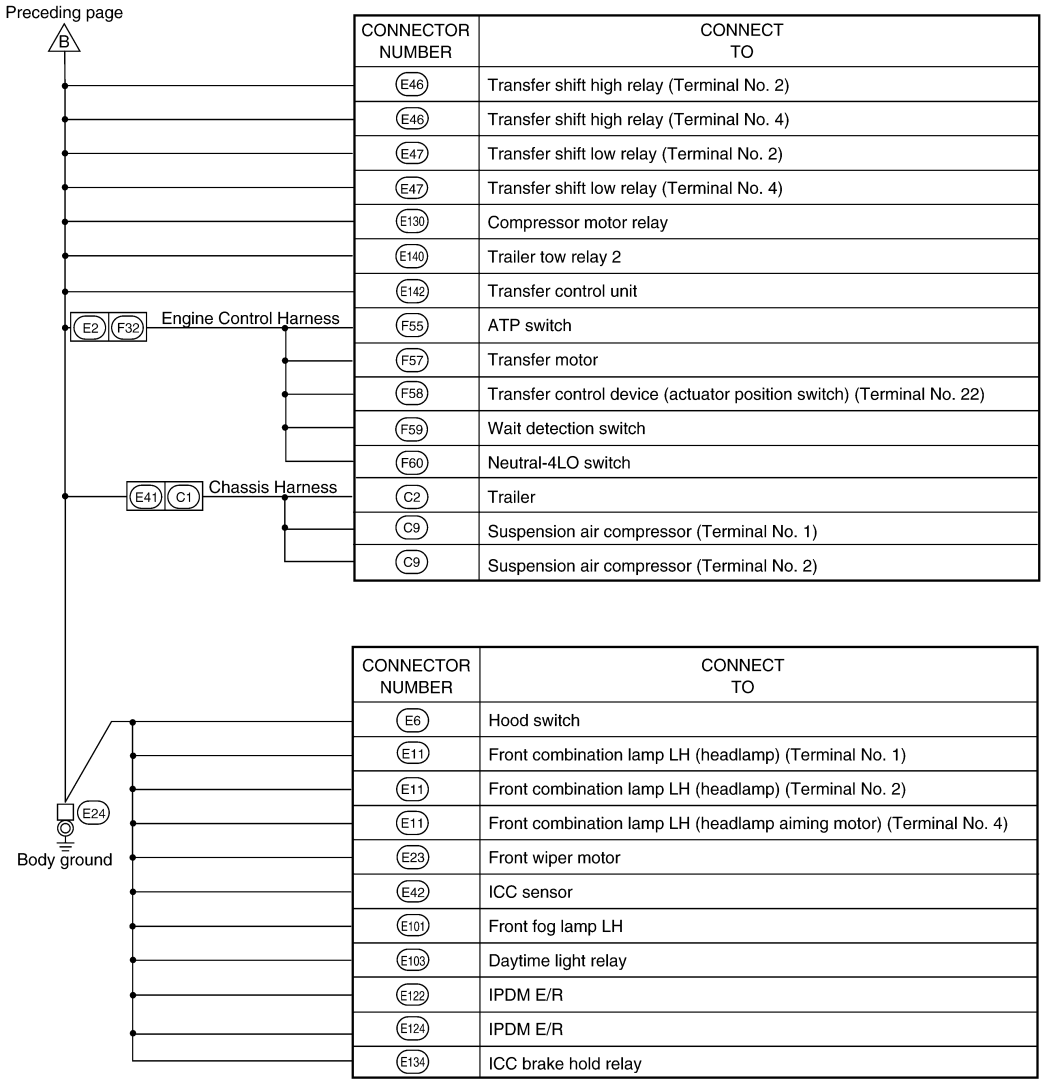


CONNECTOR NUMBER	CONNECT TO
E16	ECM (Terminal No. 115)
E16	ECM (Terminal No. 116)
E142	Transfer control unit
E143	Transfer control unit
E156	Trailer turn relay LH
E157	Trailer turn relay RH
F5	Air fuel ratio (A/F) sensor 1 (bank 1) shield
F9	A/T assembly (TCM) (Terminal No. 10)
F9	A/T assembly (TCM) (Terminal No. 5)
F11	Crankshaft position sensor (POS)
F23	Camshaft position sensor (PHASE)
F50	Electric throttle control actuator (throttle position sensor shield)
F54	ECM (Terminal No. 1)
F56	Transfer terminal cord assembly
F62	Intake valve timing control position sensor (bank 1)
F64	Intake valve timing control position sensor (bank 2)
F65	Air fuel ratio (A/F) sensor 1 (bank 1) shield
F102	Knock sensor (bank 1) shield
F104	Knock sensor (bank 2) shield

CONNECTOR NUMBER	CONNECT TO
E3	Horn
E21	Brake fluid level switch
E102	Front fog lamp RH
E106	Washer fluid level switch
E107	Front combination lamp RH (headlamp) (Terminal No. 1)
E107	Front combination lamp RH (headlamp) (Terminal No. 2)
E107	Front combination lamp RH (headlamp aiming motor) (Terminal No. 4)
E113	Cooling fan motor
E116	Condenser-2
C5	Fuel level sensor unit and fuel pump (fuel pump)

WKIA5804E

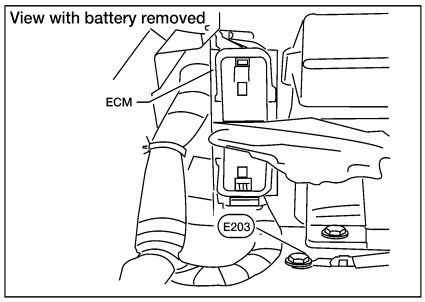


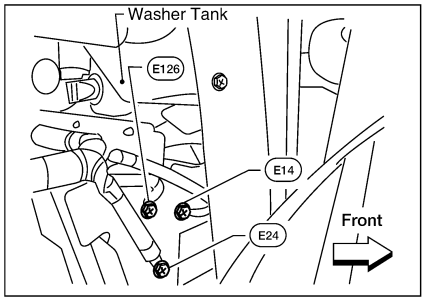


CONNECTOR NUMBER	CONNECT TO
E46	Transfer shift high relay (Terminal No. 2)
E46	Transfer shift high relay (Terminal No. 4)
E47	Transfer shift low relay (Terminal No. 2)
E47	Transfer shift low relay (Terminal No. 4)
E130	Compressor motor relay
E140	Trailer tow relay 2
E142	Transfer control unit
F55	ATP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

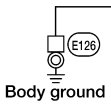
CONNECTOR NUMBER	CONNECT TO
E6	Hood switch
E11	Front combination lamp LH (headlamp) (Terminal No. 1)
E11	Front combination lamp LH (headlamp) (Terminal No. 2)
E11	Front combination lamp LH (headlamp aiming motor) (Terminal No. 4)
E23	Front wiper motor
E42	ICC sensor
E101	Front fog lamp LH
E103	Daytime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

WKIA4661E





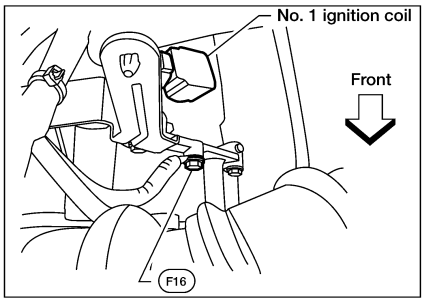
CONNECTOR NUMBER	CONNECT TO
E206	Generator

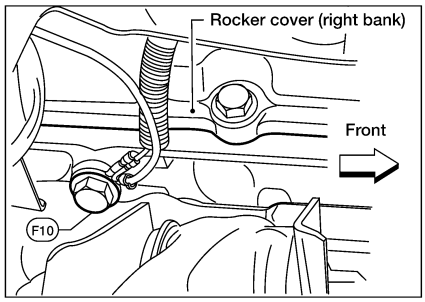


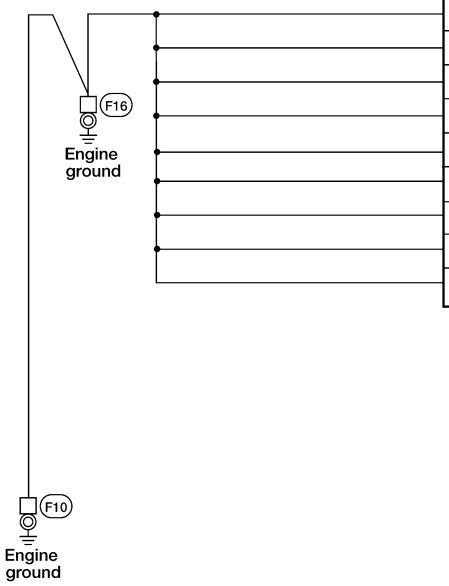
CONNECTOR NUMBER	CONNECT TO
E125	ABS actuator and electric unit (control unit) (Terminal No. 16)
E125	ABS actuator and electric unit (control unit) (Terminal No. 47)

CONNECTOR NUMBER	CONNECT TO
E4	Crash zone sensor (shield wire)

WKIA5805E



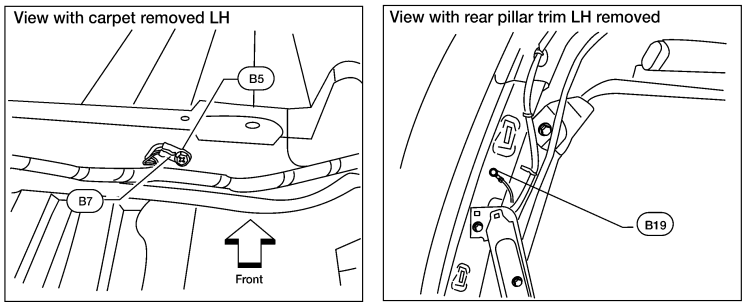


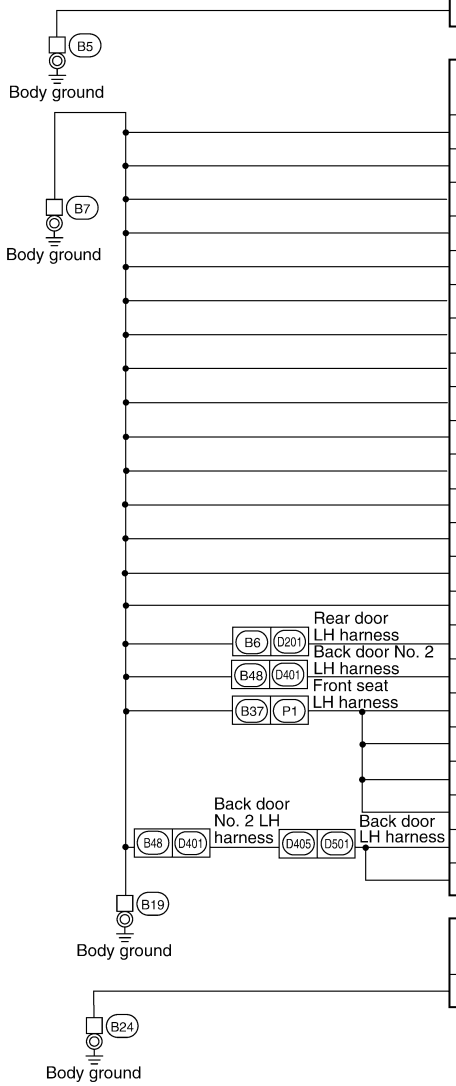


CONNECTOR NUMBER	CONNECT TO
F6	Ignition coil No. 2 (with power transistor)
F7	Ignition coil No. 4 (with power transistor)
F8	Ignition coil No. 6 (with power transistor)
F21	Condenser-1
F47	Ignition coil No. 1 (with power transistor)
F48	Ignition coil No. 3 (with power transistor)
F49	Ignition coil No. 5 (with power transistor)
F51	Ignition coil No. 7 (with power transistor)
F52	Ignition coil No. 8 (with power transistor)

WKIA4663E

Body Harness



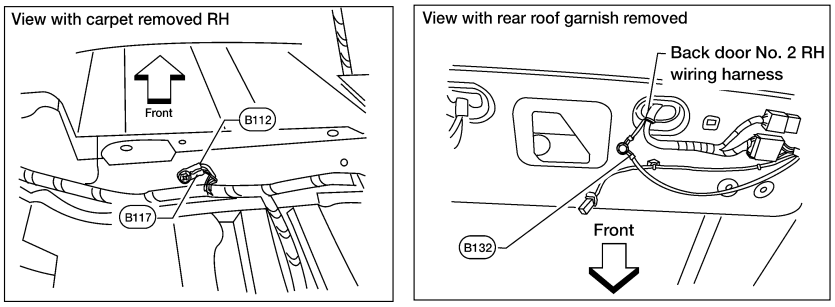


CONNECTOR NUMBER	CONNECT TO
B15	LH side air bag (satellite) sensor (shield wire)

CONNECTOR NUMBER	CONNECT TO
B3	Suspension control unit (Terminal No. 16)
B13	ICC unit (Terminal No. 19)
B13	ICC unit (Terminal No. 20)
B17	ICC unit (Terminal No. 46)
B35	Rear turn signal lamp LH
B55	Back door control unit (Terminal No. 1)
B55	Back door control unit (Terminal No. 2)
B56	Sonar control unit
B63	Back door close switch
B70	Rear combination lamp LH (stop/tail lamp)
B72	Subwoofer
B73	Rear view camera control unit (Terminal No. 3)
B74	Seat belt buckle pre-tensioner assembly LH
B75	Rear seat heater LH
B76	Rear seat heater RH
D209	Rear power window control unit LH (Terminal No. 15)
D403	High mounted stop lamp
P2	Driver seat control unit (signal ground) (Terminal No. 32)
P3	Driver seat control unit (power ground) (Terminal No. 48)
P8	Power seat switch LH (Terminal No. 3)
P9	Front seat heater LH
D503	Back door latch
D504	Rear view camera

CONNECTOR NUMBER	CONNECT TO
B54	LH side rear curtain airbag module shield

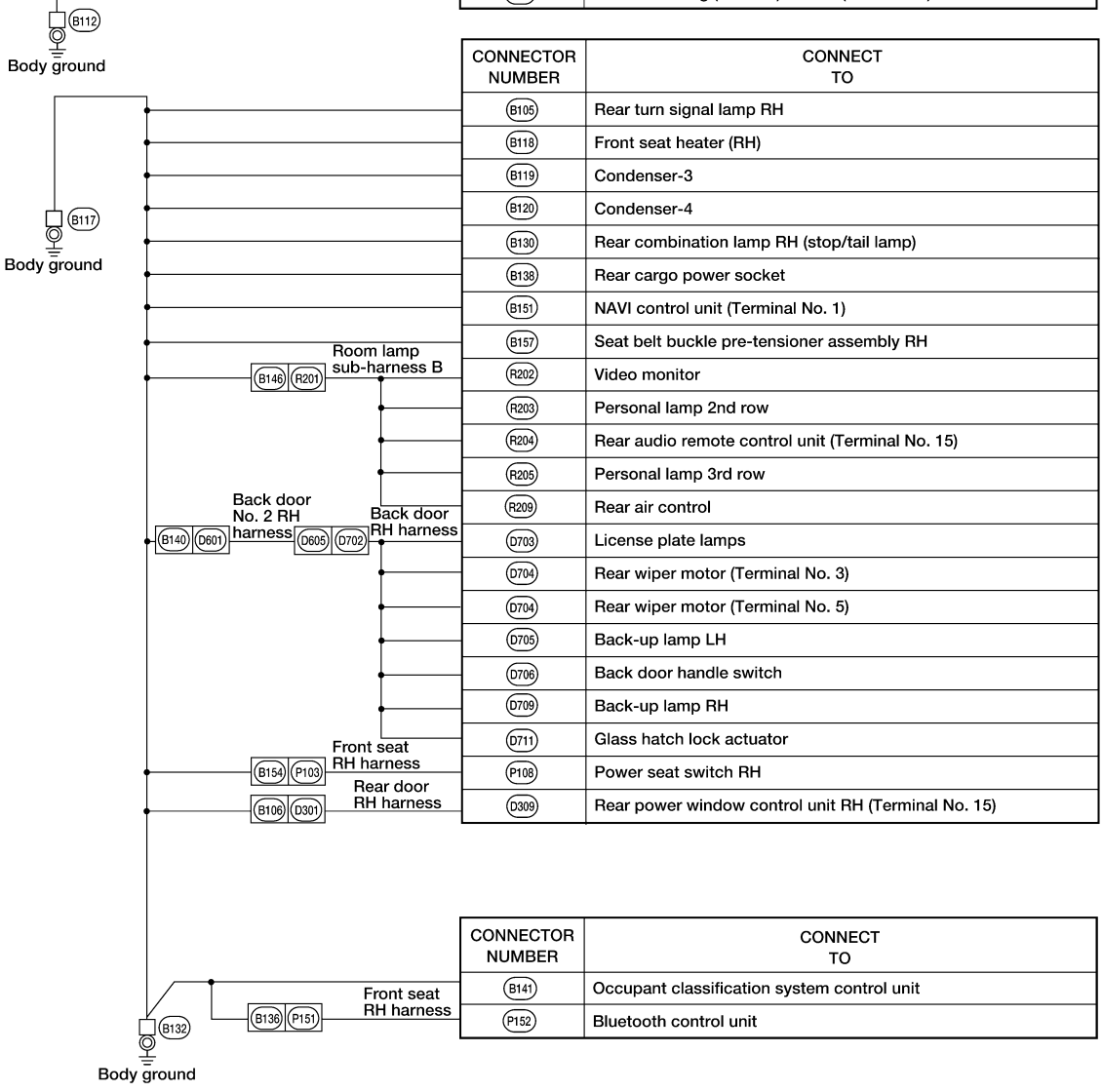
AWMIA0931GB



CONNECTOR NUMBER	CONNECT TO
B114	RH side air bag (satellite) sensor (shield wire)

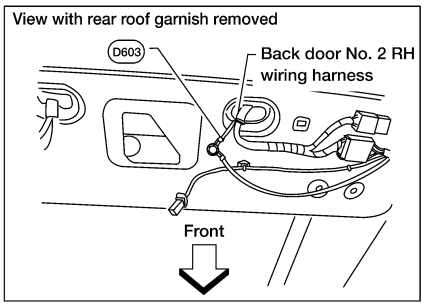
CONNECTOR NUMBER	CONNECT TO
B105	Rear turn signal lamp RH
B118	Front seat heater (RH)
B119	Condenser-3
B120	Condenser-4
B130	Rear combination lamp RH (stop/tail lamp)
B138	Rear cargo power socket
B151	NAVI control unit (Terminal No. 1)
B157	Seat belt buckle pre-tensioner assembly RH
R202	Video monitor
R203	Personal lamp 2nd row
R204	Rear audio remote control unit (Terminal No. 15)
R205	Personal lamp 3rd row
R209	Rear air control
D703	License plate lamps
D704	Rear wiper motor (Terminal No. 3)
D704	Rear wiper motor (Terminal No. 5)
D705	Back-up lamp LH
D706	Back door handle switch
D709	Back-up lamp RH
D711	Glass hatch lock actuator
P108	Power seat switch RH
D309	Rear power window control unit RH (Terminal No. 15)

CONNECTOR NUMBER	CONNECT TO
B141	Occupant classification system control unit
P152	Bluetooth control unit

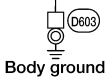


AWMIA0932GB

Back Door No. 2 RH Harness



CONNECTOR NUMBER	CONNECT TO
D604	Rear window defogger



WKIA4666E

HARNESS

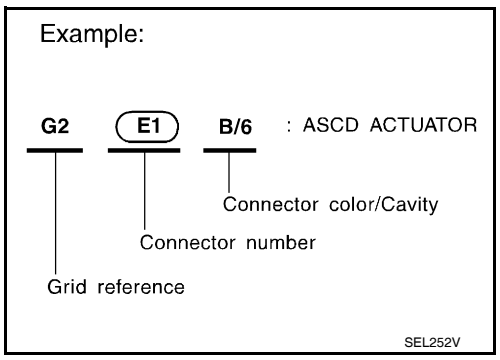
Harness Layout

INFOID:0000000003533846

HOW TO READ HARNESS LAYOUT

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

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



To use the grid reference

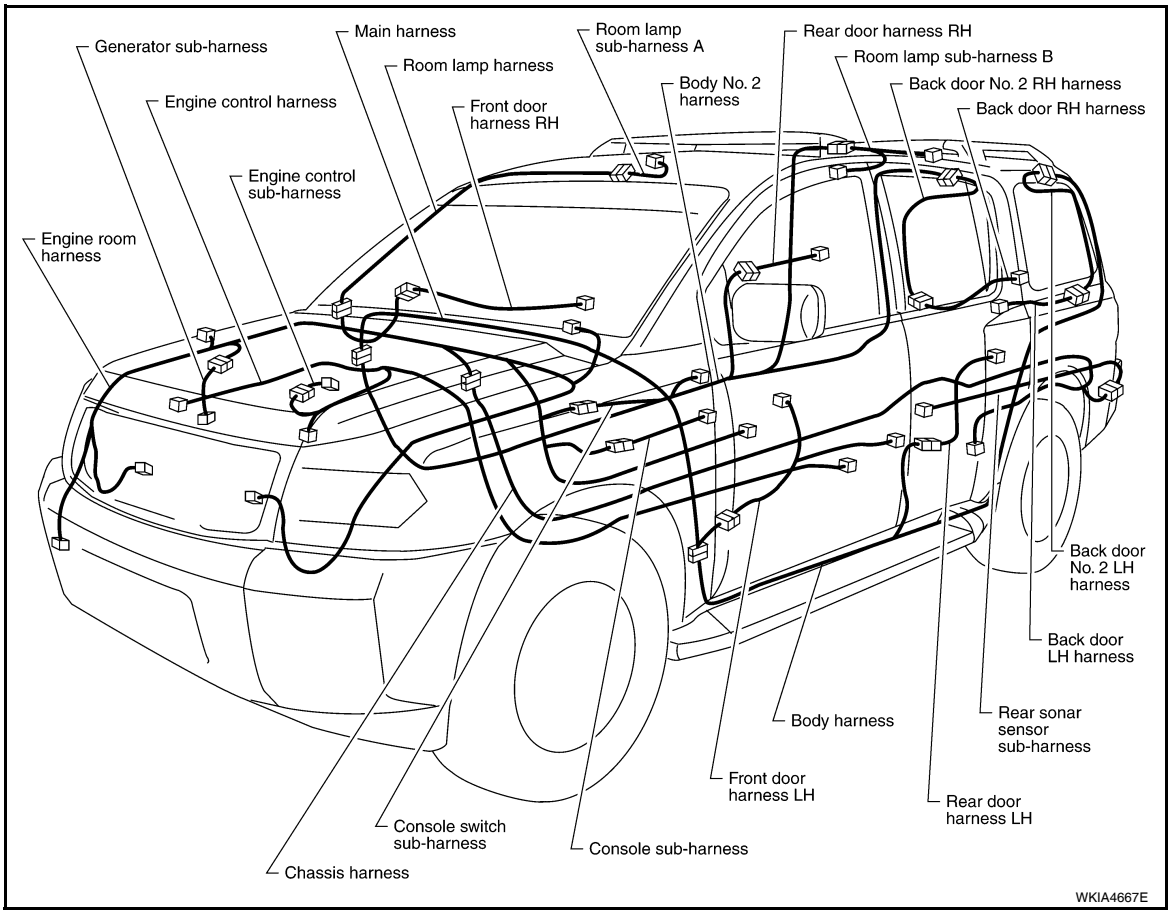
1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.

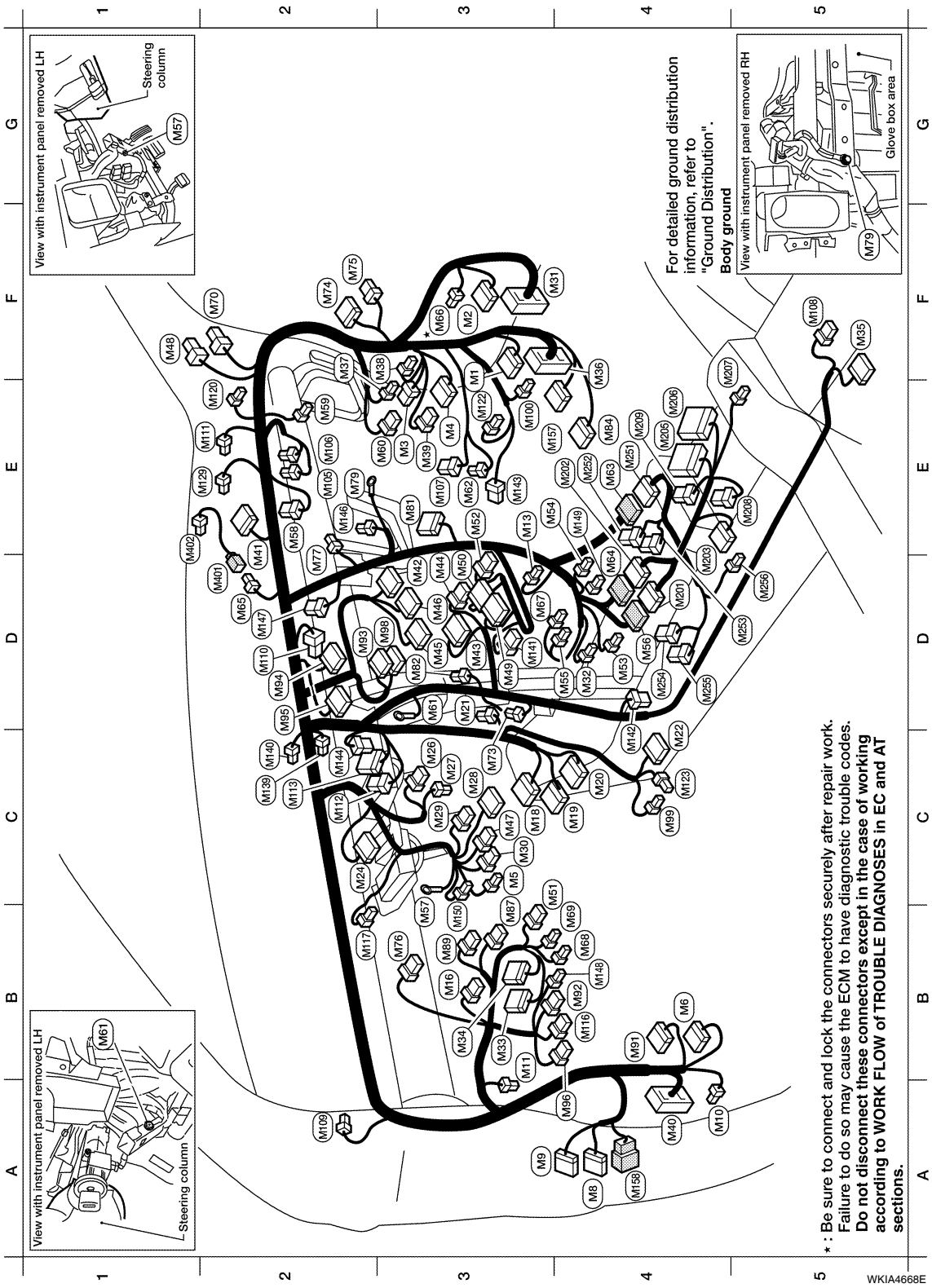
CONNECTOR SYMBOL

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

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

OUTLINE


Generator sub-harness
Main harness
Room lamp sub-harness A
Rear door harness RH
Room lamp harness
Room lamp sub-harness B
Body No. 2 harness
Back door No. 2 RH harness
Engine control harness
Front door harness RH
Back door RH harness
Engine control sub-harness
Engine room harness
Back door No. 2 LH harness
Back door LH harness
Body harness
Rear sonar sensor sub-harness
Front door harness LH
Rear door harness LH
Console switch sub-harness
Console sub-harness
Chassis harness
WKIA4667E


View with instrument panel removed LH
Steering column
M57
View with instrument panel removed LH
M61
Steering column
For detailed ground distribution information, refer to "Ground Distribution".
Body ground
View with instrument panel removed RH
Glove box area
M79
★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.
WKIA4668E

F3 (M1) W/16 : To (R1)
F3 (M2) W/12 : To (R2)
E3 (M3) W/8 : Fuse block (J/B)
E3 (M4) W/16 : Fuse block (J/B)
C3 (M5) W/3 : Illumination control switch
B4 (M6) W/10 : To (E10)
A4 (M8) W/16 : To (D2)
A3 (M9) BR/24 : To (D1)
A4 (M10) Y/4 : To (E29)
B3 (M11) B/1 : Parking brake switch
E3 (M13) W/3 : Front passenger air bag off indicator
B3 (M15) GR/6 : ADP steering switch
C3 (M16) W/40 : BCM (body control module)
C4 (M19) W/15 : BCM (body control module)
C4 (M20) B/15 : BCM (body control module)
D3 (M21) W/4 : NATS antenna amp.
C4 (M22) W/16 : Data link connector
C2 (M24) W/40 : Combination meter
C3 (M25) W/6 : Ignition switch
C3 (M27) W/4 : Key switch and key lock solenoid
C3 (M28) W/16 : Combination switch
C3 (M29) Y/6 : Combination switch (spiral cable)
C3 (M30) GR/8 : Combination switch (spiral cable)
F3 (M31) SMJ : To (E152)
D4 (M32) W/4 : In-vehicle sensor
B3 (M33) W/32 : Automatic drive positioner control unit
B3 (M34) W/16 : Automatic drive positioner control unit
F5 (M35) Y/28 : Air bag diagnosis sensor unit
F4 (M36) SMJ : To (B149)
F2 (M37) B/1 : Fuse block (J/B)
F2 (M38) B/2 : Fuse block (J/B)
E3 (M39) W/8 : Fuse block (J/B)
A4 (M40) SMJ : To (B68)
E2 (M41) W/16 : Satellite radio tuner (or pre-wiring for satellite radio)
D3 (M42) W/16 : Audio unit
D3 (M43) W/10 : Audio unit
D3 (M44) W/6 : Audio unit
D3 (M45) W/16 : Audio unit
D3 (M46) W/20 : Audio unit
C3 (M47) W/8 : Steering angle sensor
F1 (M48) BR/2 : To (M50)
D3 (M49) B/26 : Front air control
D3 (M50) W/18 : Front air control
B3 (M51) L/4 : Trailer tow relay 1
E3 (M52) E3 : Rear blower switch (front)
D4 (M53) B/2 : Front power socket LH
E3 (M54) B/2 : Front power socket RH (for cigarette lighter)
D4 (M55) W/4 : Hazard switch
D4 (M56) W/16 : To (M201)
B3 (M57) - : Body ground
E2 (M58) B/6 : Intake door motor
E2 (M59) BR/2 : Glove box lamp
E3 (M60) W/6 : Fuse block (J/B)
D3 (M61) - : Body ground
E3 (M62) B/2 : Front blower motor
E4 (M63) BR/20 : To (M25)
D4 (M64) BR/24 : To (M22)
D2* (M65) W/4 : To (M401)
F3 (M66) B/1 : To (E33)
D4 (M67) GR/8 : Tow mode switch
B4 (M68) W/2 : Tilt motor
B4 (M69) W/3 : Tilt motor
F2 (M70) BR/1 : To (M350) (with Sirius satellite radio)
F2 (M70) V/1 : To (M350) (with XM satellite radio)
C3 (M73) BR/6 : Back-up lamp relay
F2 (M74) BR/20 : To (D102)
F2 (M75) W/10 : To (D101)
B3 (M76) W/6 : Electric brake (pre-wiring)
D2 (M77) Y/4 : Front passenger air bag module (service replacement)
E2 (M78) - : Body ground
E3 (M81) GR/10 : Shift lock control unit
D3 (M82) GR/2 : Circuit breaker-2
E3 (M84) W/16 : To (B101)
B3 (M87) B/5 : Rear power vent window relay (open)
B3 (M88) B/5 : Rear power vent window relay (close)
B4 (M91) W/16 : To (E26)
B4 (M92) GR/6 : Power liftgate switch
D2 (M93) W/24 : Display unit
D2 (M94) W/24 : Display control unit
C2 (M95) W/32 : Display control unit
A4 (M96) BR/6 : Pedal adjusting switch
D3 (M98) W/24 : AV switch
C4 (M99) BR/2 : Foot lamp LH
E3 (M100) BR/2 : Foot lamp RH
E2 (M105) Y/2 : Front passenger air bag module
E2 (M106) O/2 : Front passenger air bag module
E3 (M107) BR/6 : Front blower motor relay
F5 (M108) B/6 : Yaw rate/side/decel G sensor
A2 (M109) BR/2 : Front tweeter LH
D2 (M110) BR/2 : Center speaker
E2 (M111) BR/2 : Front tweeter RH
C2 (M112) W/8 : BOSE speaker amp.
C2 (M113) L/24 : BOSE speaker amp.
B4 (M116) GR/8 : Rear sonar system OFF switch
B2 (M117) B/2 : Sonar buzzer
E2 (M120) W/4 : Remote keyless entry receiver
E3 (M122) W/4 : Variable blower control
C4 (M123) W/2 : Tire pressure warning check connector
E2 (M129) BR/1 : Satellite radio tuner (with Sirius satellite radio)
E2 (M128) V/1 : Satellite radio tuner (with XM satellite radio)
C2 (M139) B/2 : Diode-1
C2 (M140) B/2 : Diode-2
D3 (M141) W/8 : 4WD shift switch
C4 (M145) B/6 : Mode door motor
E3 (M143) B/6 : Air mix door motor (passenger)
C2 (M144) B/6 : Defroster door motor
E2 (M146) GR/2 : Intake sensor
D2 (M147) B/6 : Air mix door motor (driver)
B4 (M148) W/4 : Headlamp aiming switch
E4 (M149) W/4 : Clock
B3 (M150) W/2 : Ignition keyhole illumination
E4 (M157) W/20 : To (E161)
A4 (M158) W/10 : To (D3)

Console sub-harness
D4 (M201) W/16 : To (M56)
E4 (M203) BR/24 : To (M64)
D4 (M205) W/12 : A/T device
E4 (M206) GR/16 : DVD player
E4 (M206) L/16 : DVD player
F4 (M207) B/2 : Console power socket
E5 (M208) BR/6 : Rear heated seat switch LH
E4 (M209) BR/6 : Rear heated seat switch RH

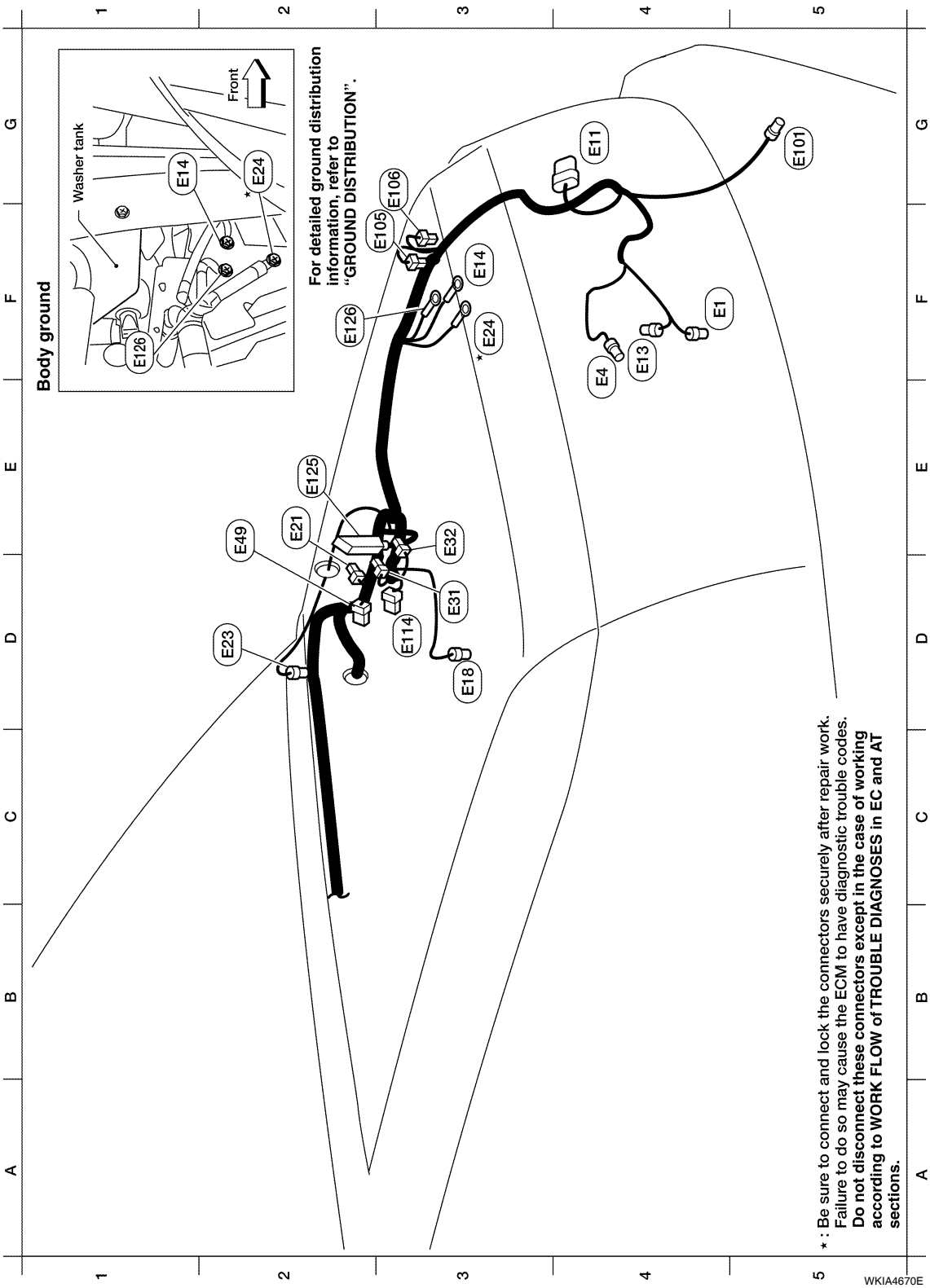
Console switch sub-harness
E4 (M251) BR/20 : To (M63)
E4 (M252) BR/6 : Front heated seat switch RH
D5 (M253) GR/6 : VDC OFF switch
D4 (M254) GR/8 : Tow mode switch
D4 (M255) BR/6 : Front heated seat switch LH
D5 (M256) B/2 : A/T device illumination

Optical sensor sub-harness
D2 (M401) W/4 : To (M65)
E2 (M402) B/4 : Optical sensor

★ : Refer to previous page

WKIA5809E

ENGINE ROOM HARNESS (LH VIEW)



Refer to "ENGINE ROOM HARNESS (RH VIEW)" for continuation of engine room harness.

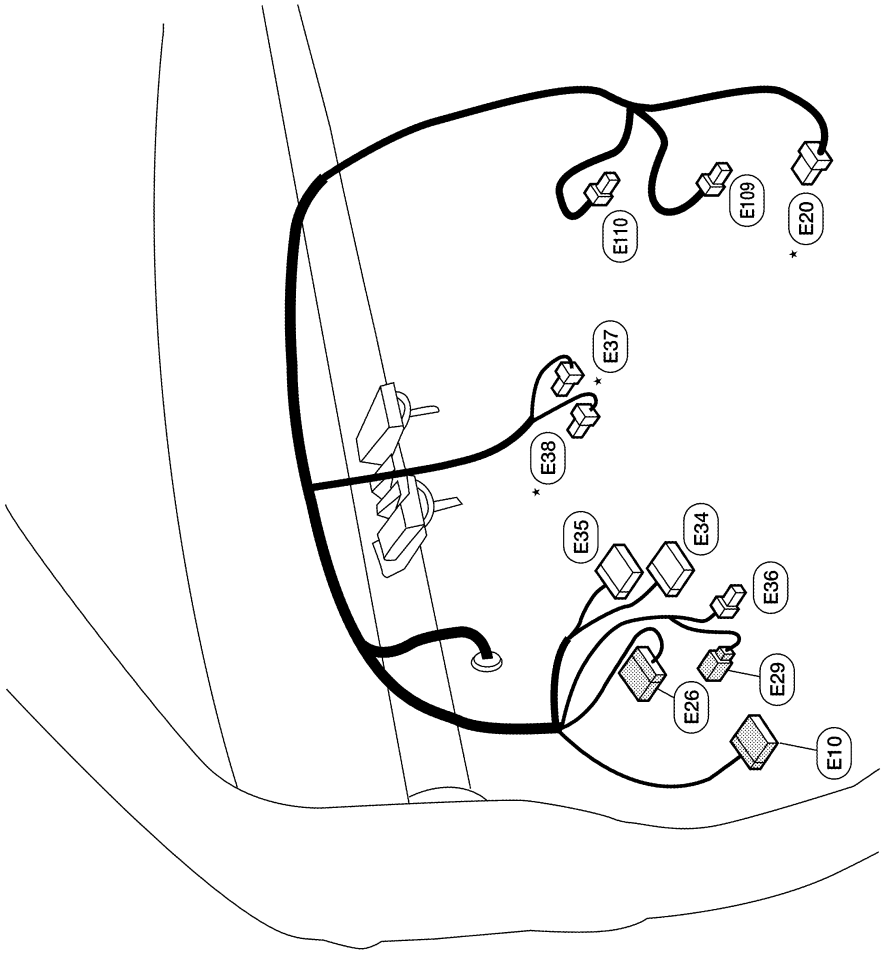
F4	(E1)	GR/2	: Ambient sensor
E4	(E4)	Y/2	: Crash zone sensor
G4	(E11)	B/8	: Front combination lamp LH
F4	(E13)	GR/2	: Ambient sensor-2
F3	(E14)	-	: Body ground
D3	(E18)	GR/2	: Front wheel sensor LH
E2	(E21)	GR/2	: Brake fluid level switch
D2	(E23)	GR/6	: Front wiper motor
F3	★(E24)	-	: Body ground
D3	(E31)	B/3	: Front pressure sensor
E3	(E32)	B/3	: Rear pressure sensor
E2	(E49)	B/6	: Active booster
G5	(E101)	B/3	: Front turn/fog lamp LH
F3	(E105)	BR/2	: Front and rear washer motor
G3	(E106)	BR/2	: Washer fluid level switch
D3	(E114)	B/6	: Delta stroke sensor
E2	(E125)	B/47	: ABS actuator and electric unit (control unit)
F2	(E126)	-	: Body ground

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

WKIA3688E

(E10) W/10 : To (M6)
★ (E20) B/8 : Accelerator pedal position (APP) sensor
(E26) W/16 : To (M51)
(E29) Y/4 : To (M10)
(E34) W/24 : To (B40)
(E35) W/12 : To (B41)
(E36) W/2 : To (B42)
★ (E37) BR/2 : ASCD brake switch (with ASCD)
★ (E37) BR/2 : ICC brake switch (with ICC)
★ (E38) W/4 : Stop lamp switch
(E109) W/2 : Pedal adjusting motor
(E110) W/3 : Pedal adjusting motor

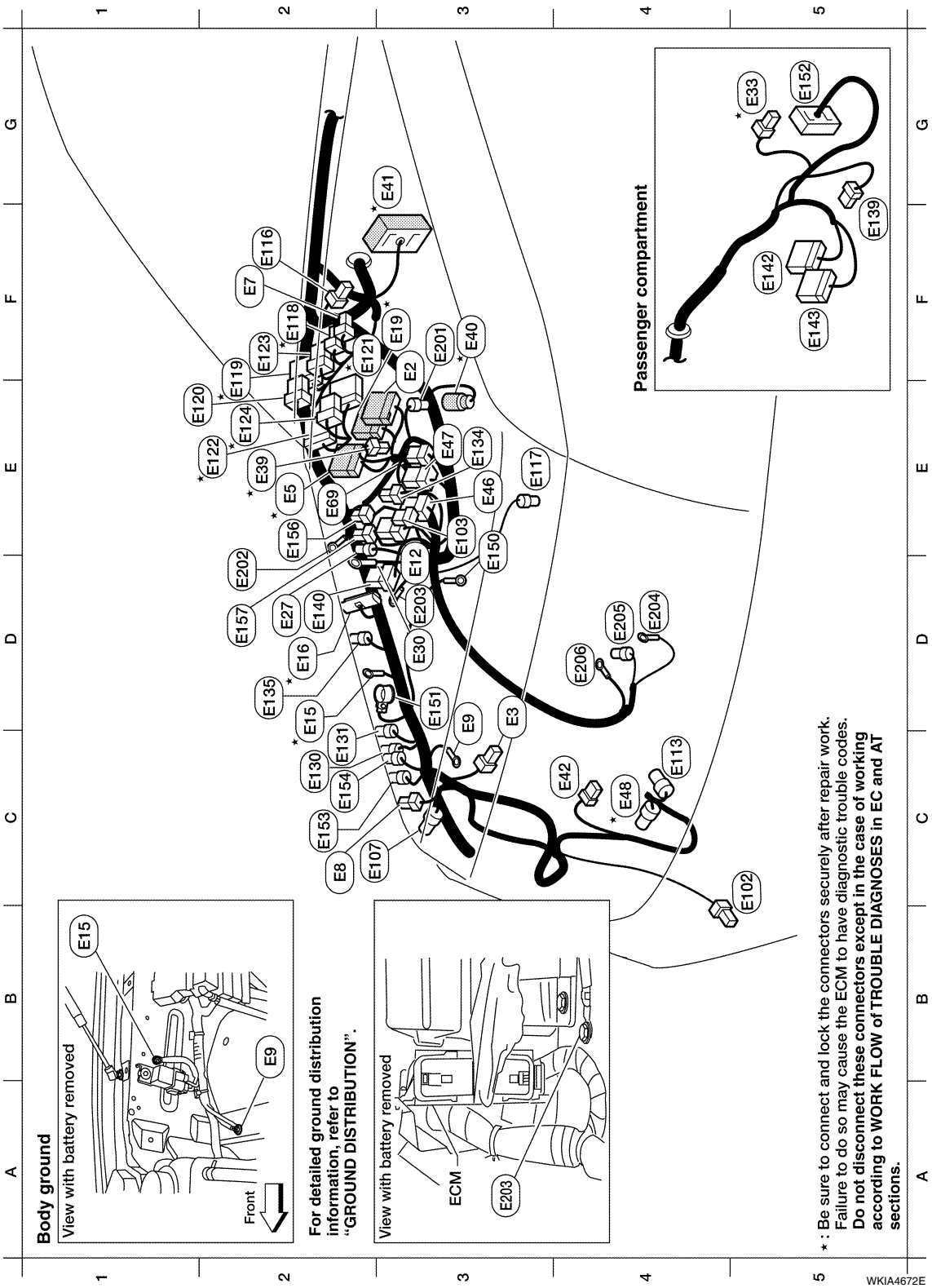
★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.



WKIA4671E

ENGINE ROOM HARNESS (RH VIEW)

Engine Compartment



Refer to "ENGINE ROOM HARNESS (LH VIEW)" for continuation of engine room harness.

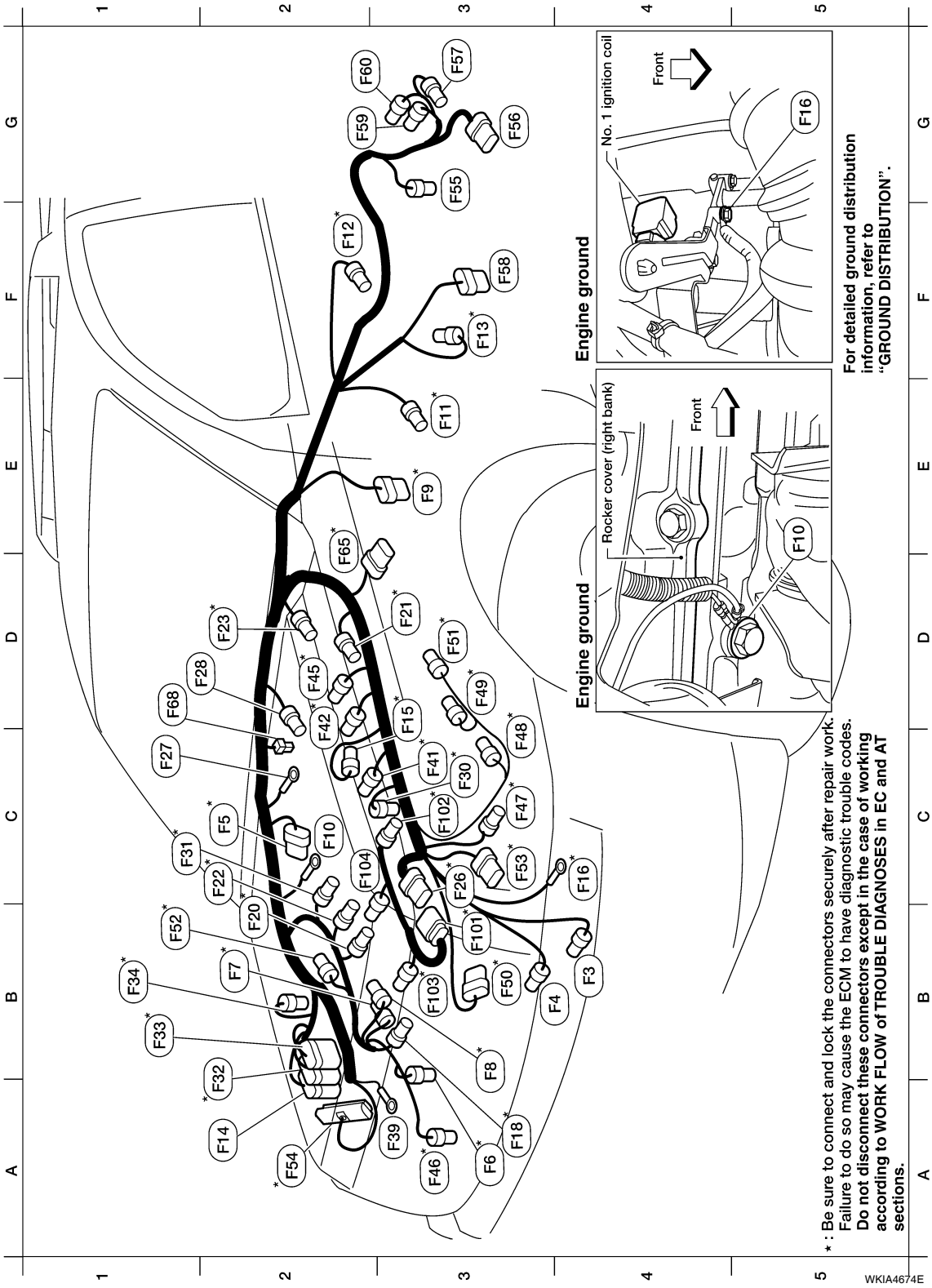
E3 (E2) W/16 : To (F32)
D3 (E3) B/2 : Horn
E2 * (E5) W/24 : To (F14)
F2 (E7) GR/2 : Fusible link box (battery)
C2 (E8) W/2 : Hood switch
C3 * (E9) - : Body ground
D3 (E12) B/5 : Stop lamp relay
C2 * (E15) - : Body ground
D2 * (E16) B/32 : ECM
D2 (E27) BR/2 : Fusible link box (battery)
D2 (E30) - : Fusible link box (battery)
G5 * (E33) B/1 : To (M66)
E2 * (E39) W/2 : To (F34)
F3 * (E40) GR/3 : To (E201)
G3 * (E41) SMJ : To (C1) (located RH rear of engine compartment)
C4 (E42) B/6 : ICC sensor
E3 (E46) B/5 : Transfer shift high relay
E3 (E47) B/5 : Transfer shift low relay
C4 * (E48) B/3 : Refrigerant pressure sensor
E2 (E69) L/4 : Transfer shutoff relay
C5 (E102) B/3 : Front turn/fog lamp RH
E3 (E103) B/5 : Daytime light relay
C2 (E107) B/8 : Front combination lamp RH
C4 (E113) W/2 : Cooling fan motor
F2 * (E116) W/2 : Condenser-2
E3 (E117) GR/2 : Front wheel sensor RH
F2 (E118) B/2 : IPDM E/R (intelligent power distribution module engine room)
E2 * (E119) W/16 : IPDM E/R (intelligent power distribution module engine room)
E2 (E120) W/6 : IPDM E/R (intelligent power distribution module engine room)
F3 * (E121) BR/12 : IPDM E/R (intelligent power distribution module engine room)
E2 * (E122) W/12 : IPDM E/R (intelligent power distribution module engine room)
F2 (E123) BR/8 : IPDM E/R (intelligent power distribution module engine room)
E2 * (E124) B/6 : IPDM E/R (intelligent power distribution module engine room)
C2 (E130) W/2 : Compressor motor relay
C2 (E131) W/2 : Compressor motor relay
E3 (E134) GR/7 : ICC brake hold relay
D2 (E135) GR/2 : Transfer dropping resistor
F5 (E139) W/8 : To (B107)
D2 (E140) BR/6 : Trailer tow relay 2
F5 (E142) W/24 : Transfer control unit
F5 (E143) GR/24 : Transfer control unit
D3 (E150) : Engine ground
D3 (E151) - : Negative battery cable
G5 (E152) SMJ : To (M31)
C2 (E153) GR/2 : Transfer motor relay
C2 (E154) GR/2 : Transfer motor relay
E2 (E156) L/4 : Trailer turn relay LH
D2 (E157) L/4 : Trailer turn relay RH
C3 (E161) B/3 : Battery current sensor

Generator sub-harness

F3 (E201) GR/3 : To (E40)
D2 (E202) - : Fusible link box (battery)
D3 (E203) - : Body ground
D4 (E204) - : Generator
D4 (E205) B/3 : Generator
D4 (E206) - : Generator

AWMIA0860GB

* : 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.**


Engine ground
No. 1 ignition coil
Front
F16
Engine ground
Rocker cover (right bank)
Front
F10
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.
WKIA4674E

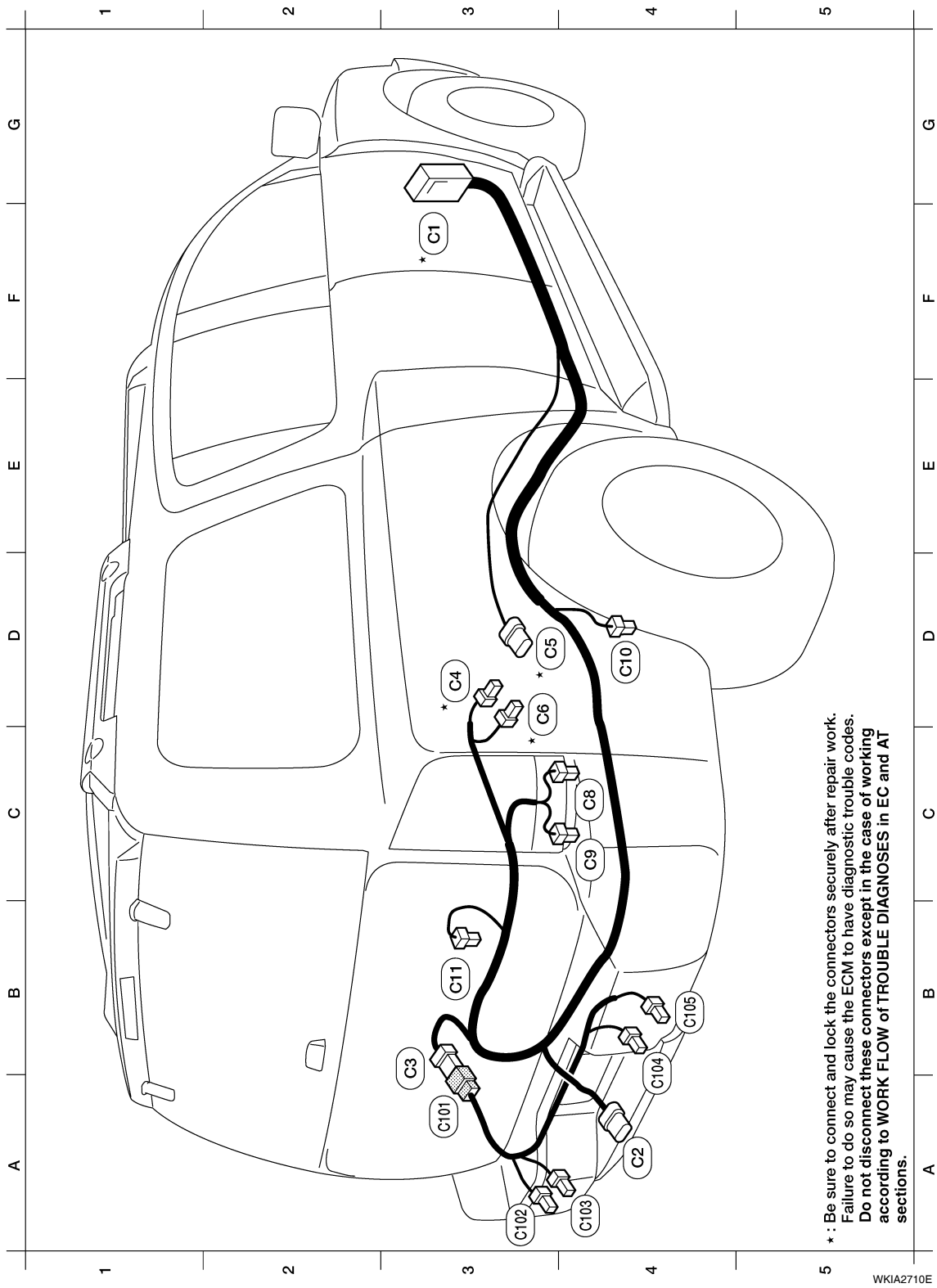
B4 (F3) B/1 : A/C compressor
B4 (F4) GR/1 : Oil pressure switch
C2 * (F5) B/6 : Air fuel ratio (A/F) sensor 1 (bank 2)
A3 * (F6) GR/3 : Ignition coil No. 2 (with power transistor)
B2 * (F7) GR/3 : Ignition coil No. 4 (with power transistor)
A3 * (F8) GR/3 : Ignition coil No. 6 (with power transistor)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

Engine control sub-harness

B3 * (F101) B/6 : To (F26)
C3 * (F102) B/2 : Knock sensor (bank 1)
B3 * (F103) GR/2 : Engine coolant temperature sensor
C2 (F104) B/2 : Knock sensor (bank 2)

WKIA5811E

*** : 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.**


1
2
3
4
5
A
B
C
D
E
F
G
C1
C2
C3
C4
C5
C6
C8
C9
C10
C11
C101
C102
C103
C104
C105
★: 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.
WKIA2710E

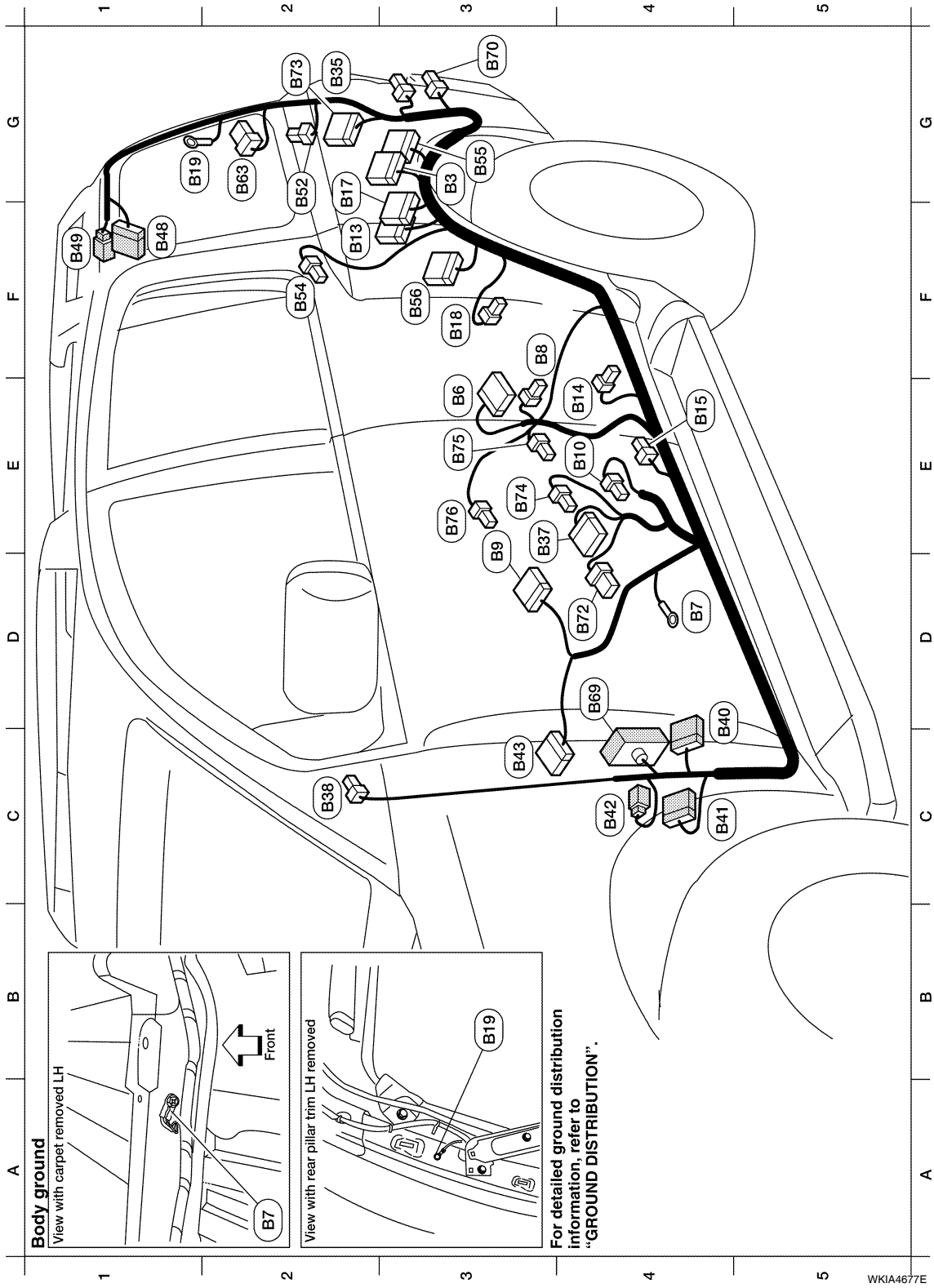
F3 * (C1) SMJ : To (E41) (located RH rear of engine compartment)
A4 (C2) B/7 : Trailer
B3 (C3) GR/6 : To (C101)
D3 * (C4) GR/3 : EVAP control system pressure sensor
D4 * (C5) GR/5 : Fuel level sensor unit and fuel pump
C3 * (C6) B/2 : EVAP canister vent control valve
C4 (C8) B/3 : Height sensor
C4 (C9) B/4 : Suspension air compressor
D4 (C10) BR/2 : Rear wheel sensor RH
B3 (C11) BR/2 : Rear wheel sensor LH

Rear sonar sensor sub-harness

A3 (C101) GR/6 : To (C3)
A3 (C102) B/3 : Rear sonar sensor LH outer
A4 (C103) B/3 : Rear sonar sensor LH inner
B4 (C104) B/3 : Rear sonar sensor RH inner
B4 (C105) B/3 : Rear sonar sensor RH outer

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

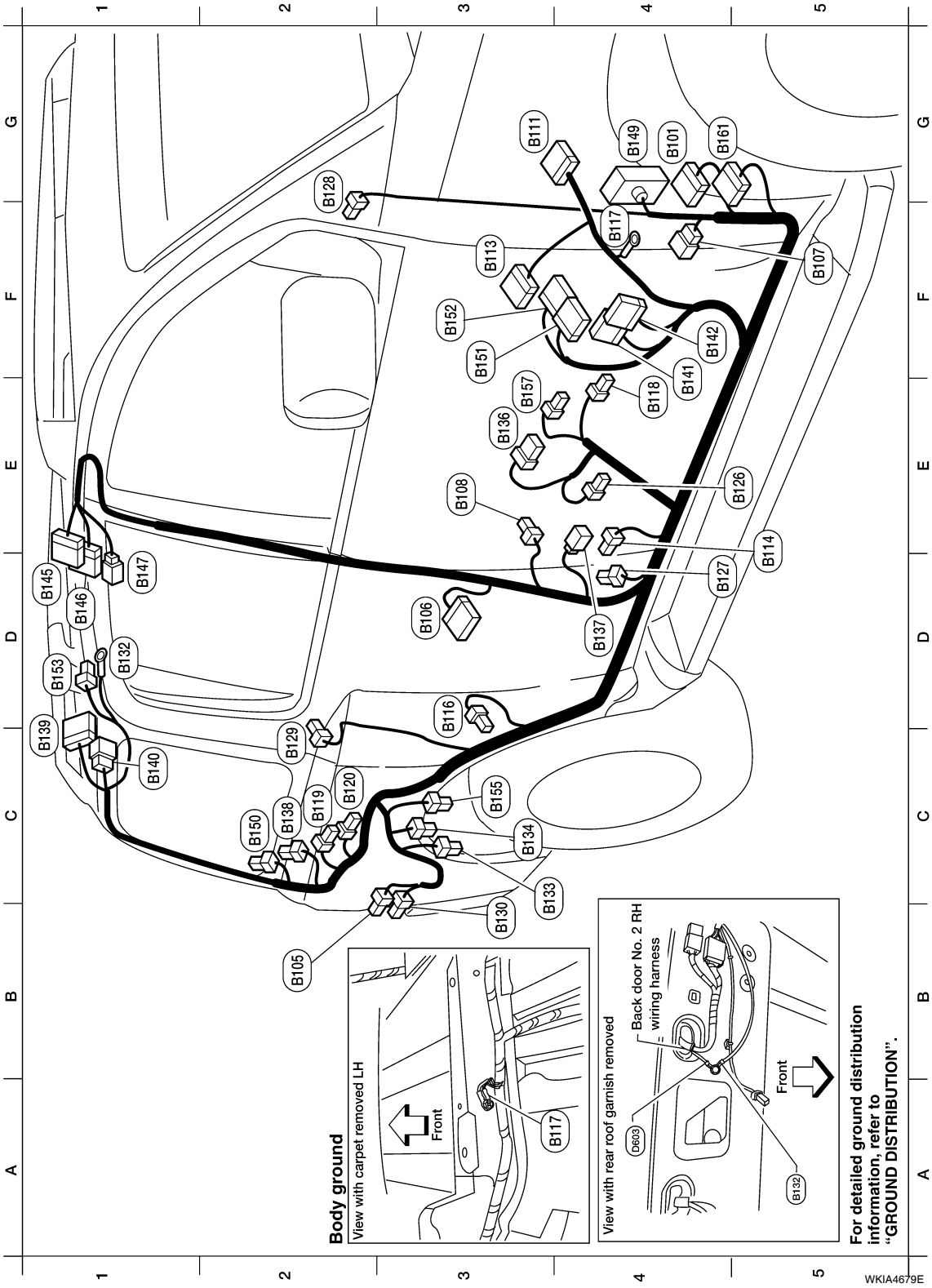
WKIA4676E


B73
B35
B70
B19
B63
B52
B17
B3
B55
B48
B49
B13
B54
B56
B18
B8
B6
B14
B15
B75
B10
B74
B76
B37
B9
B72
B7
B69
B40
B43
B38
B42
B41
Body ground
View with carpet removed LH
Front
B7
View with rear pillar trim LH removed
B19
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".
WKIA4677E

G3 (B3) W/16 : Suspension control unit
E3 (B6) W/18 : To (D201)
D4 (B7) - : Body ground
F3 (B8) W/3 : Front door switch LH
D3 (B9) Y/12 : Air bag diagnosis sensor unit
E4 (B10) Y/2 : Front LH side air bag module
F2 (B13) W/24 : ICC unit
E4 (B14) Y/2 : Front LH seat belt pre-tensioner
E4 (B15) Y/2 : LH side air bag (satellite) sensor
G2 (B17) GR/24 : ICC unit
F3 (B18) W/3 : Rear door switch LH
G1 (B19) - : Body ground
G2 (B35) B/3 : Rear combination lamp LH
E4 (B37) W/16 : To (P1)
C2 (B38) Y/2 : LH side front curtain air bag module
C4 (B40) W/24 : To (E34)
C4 (B41) W/12 : To (E35)
C4 (B42) W/2 : To (E36)
C3 (B43) W/12 : To (B111)
F1 (B48) W/16 : To (M41)
F1 (B49) W/2 : To (D402)
G2 (B52) W/2 : Rear power vent window motor LH
F2 (B54) Y/2 : LH side rear curtain air bag module
G3 (B55) W/26 : Back door control unit
F3 (B56) W/16 : Sonar control unit
G2 (B63) W/6 : Back door close switch
D4 (B69) SMJ : To (M40)
G3 (B70) GR/3 : Rear combination lamp LH (stop/tail)
D4 (B72) BR/6 : Subwoofer

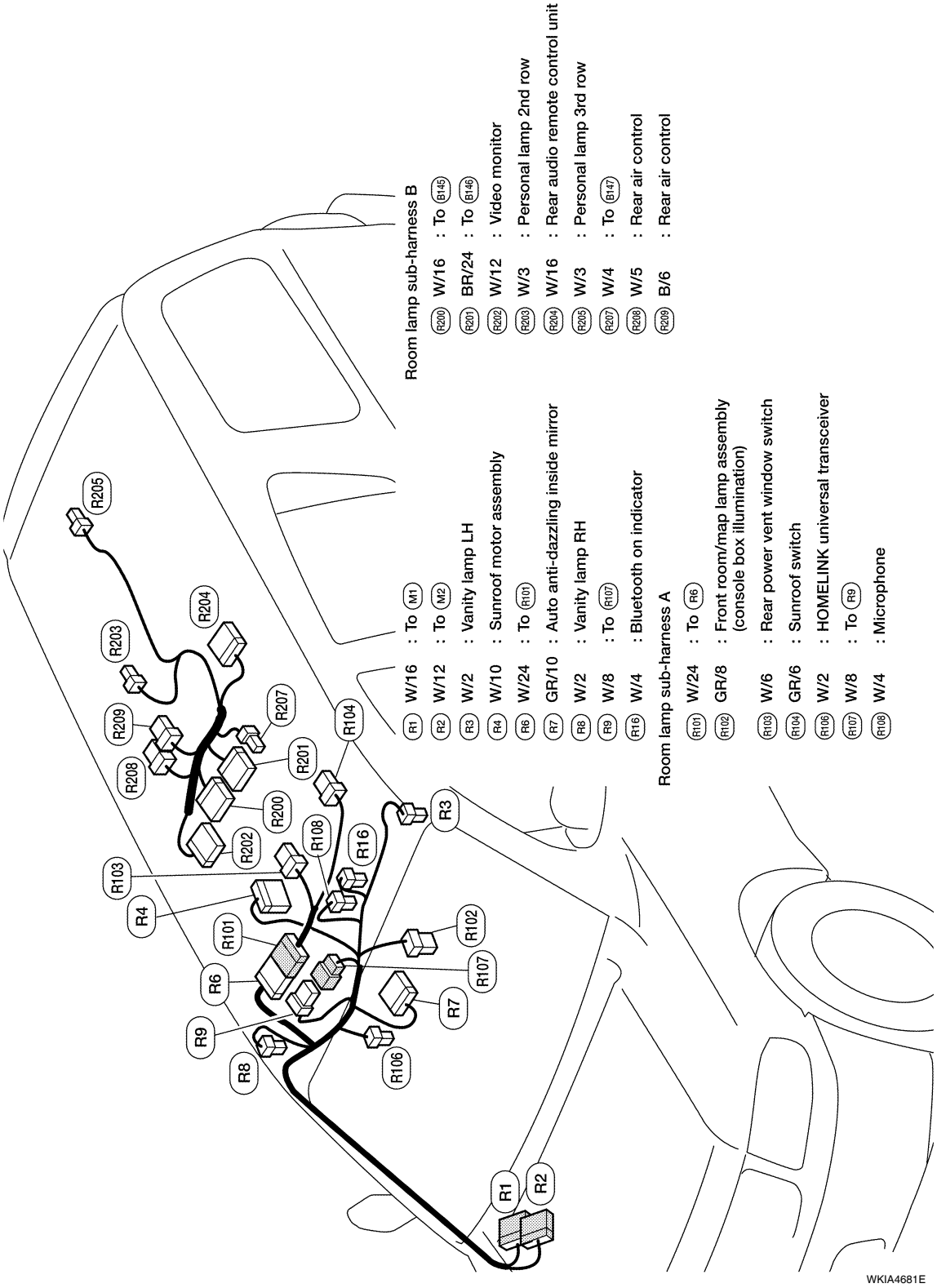
G2 (B73) W/16 : Rear view camera control unit
E3 (B74) Y/4 : Seat belt buckle pre-tensioner assembly LH
E3 (B75) W/3 : Rear seat heater LH
E3 (B76) W/3 : Rear seat heater RH

WKIA4678E


B111
B149
B101
B161
B128
B117
B113
B107
B152
B142
B151
B141
B157
B118
B136
B126
B108
B114
B127
B145
B147
B146
B106
B137
B153
B132
B116
B139
B129
B140
B120
B155
B150
B138
B119
B134
B133
B130
B105
Body ground
View with carpet removed LH
Front
B117
View with rear roof garnish removed
Back door No. 2 RH wiring harness
D603
Front
B132
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".
WKIA4679E

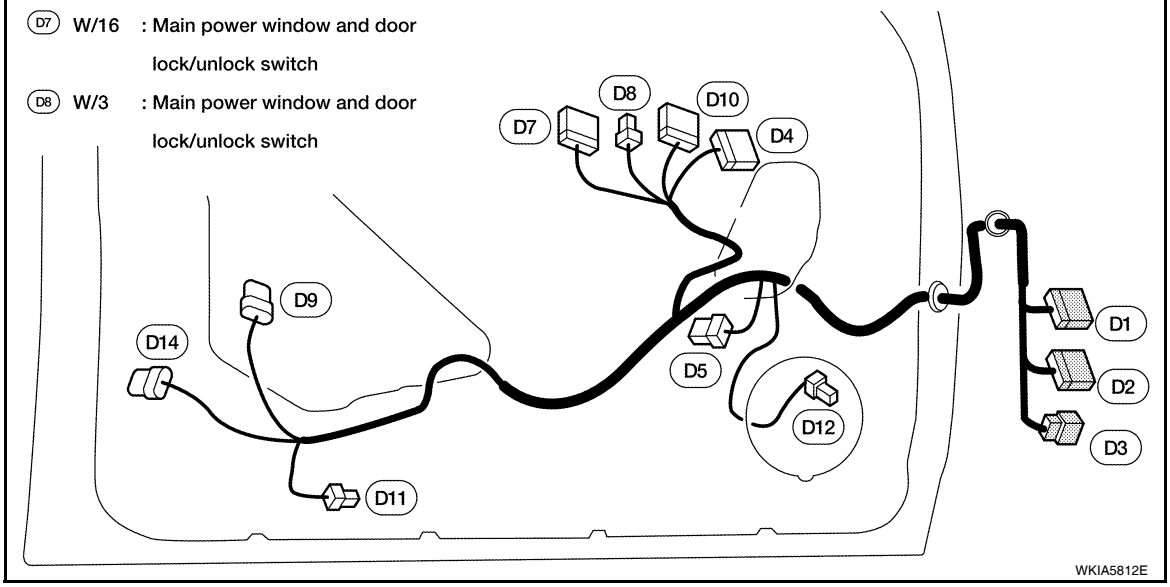
G4 (B101) W/16 : To (M84)
B2 (B105) B/3 : Rear combination lamp RH
D3 (B106) W/18 : To (D301)
F5 (B107) W/8 : To (E139)
E3 (B108) W/3 : Front door switch RH
G3 (B111) W/12 : To (B43)
F3 (B113) Y/12 : Air bag diagnosis sensor unit
E5 (B114) Y/2 : RH side air bag (satellite) sensor
C3 (B116) W/3 : Rear door switch RH
F4 (B117) - : Body ground
F4 (B118) W/3 : Front seat heater RH
C2 (B119) W/2 : Condenser-3
C2 (B120) W/2 : Condenser-4
E5 (B126) Y/2 : Front RH side air bag module
D5 (B127) Y/2 : Front RH seat belt pre-tensioner
G2 (B128) Y/2 : RH side rear curtain air bag module
C2 (B129) Y/2 : RH side front curtain air bag module
B3 (B130) GR/3 : Rear combination lamp RH (stop/tail)
D1 (B132) - : Body ground
C3 (B133) W/4 : Rear blower motor resistor
C3 (B134) W/2 : Rear blower motor
E3 (B136) W/8 : To (P151)
D4 (B137) W/3 : Belt tension sensor
C2 (B138) B/2 : Rear cargo power socket
C1 (B139) W/16 : To (D602)
C1 (B140) W/6 : To (D601)
F4 (B141) W/32 : Blue tooth control unit
F4 (B142) GR/1 : Blue tooth control unit
D1 (B145) W/16 : To (R200)
D1 (B146) BR/24 : To (R201)
D1 (B147) W/4 : To (R207)
G4 (B149) SMJ : To (M36)
C2 (B150) W/2 : Rear power vent window motor RH
F5 (B151) W/40 : NAVI control unit
F5 (B152) W/32 : NAVI control unit
D1 (B153) W/2 : Cargo lamp
C3 (B155) B/6 : Air mix door motor (rear)
E3 (B157) Y/4 : Seat belt buckle pre-tensioner assembly RH
G5 (B161) W/20 : To (M157)

WKIA4680E


Room lamp sub-harness B
R200 W/16 : To B145
R201 BR/24 : To B146
R202 W/12 : Video monitor
R203 W/3 : Personal lamp 2nd row
R204 W/16 : Rear audio remote control unit
R205 W/3 : Personal lamp 3rd row
R207 W/4 : To B147
R208 W/5 : Rear air control
R209 B/6 : Rear air control
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 GR/10 : Auto anti-dazzling inside mirror
R8 W/2 : Vanity lamp RH
R9 W/8 : To R107
R16 W/4 : Bluetooth on indicator
Room lamp sub-harness A
R101 W/24 : To R6
R102 GR/8 : Front room/map lamp assembly (console box illumination)
R103 W/6 : Rear power vent window switch
R104 GR/6 : Sunroof switch
R106 W/2 : HOMELINK universal transceiver
R107 W/8 : To R9
R108 W/4 : Microphone
WKIA4681E

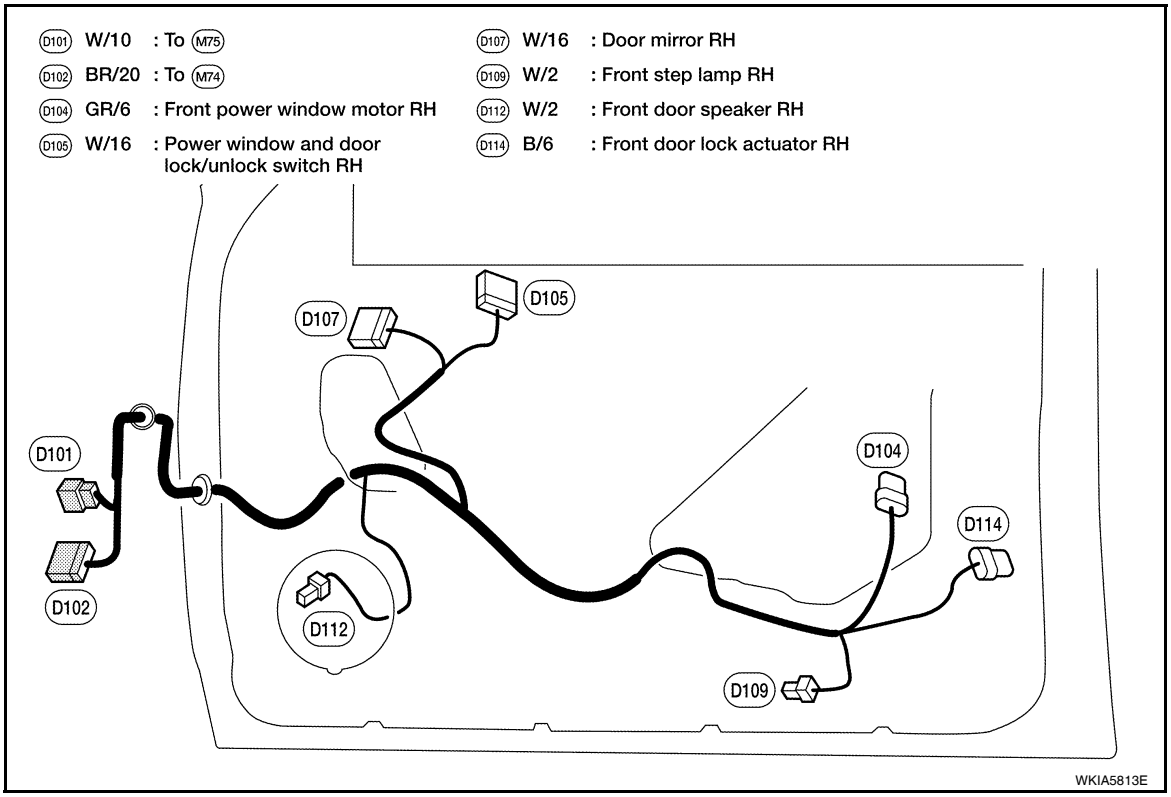
FRONT DOOR LH HARNESS

(D1) BR/24 : To (M9)
(D2) W/16 : To (M8)
(D3) W/10 : To (M158)
(D4) W/16 : Door mirror LH
(D5) W/8 : Seat memory switch
(D7) W/16 : Main power window and door lock/unlock switch
(D8) W/3 : Main power window and door lock/unlock switch
(D9) GR/6 : Front power window motor LH
(D10) BR/16 : Door mirror remote control switch
(D11) W/2 : Front step lamp LH
(D12) W/2 : Front door speaker LH
(D14) B/6 : Front door lock assembly LH

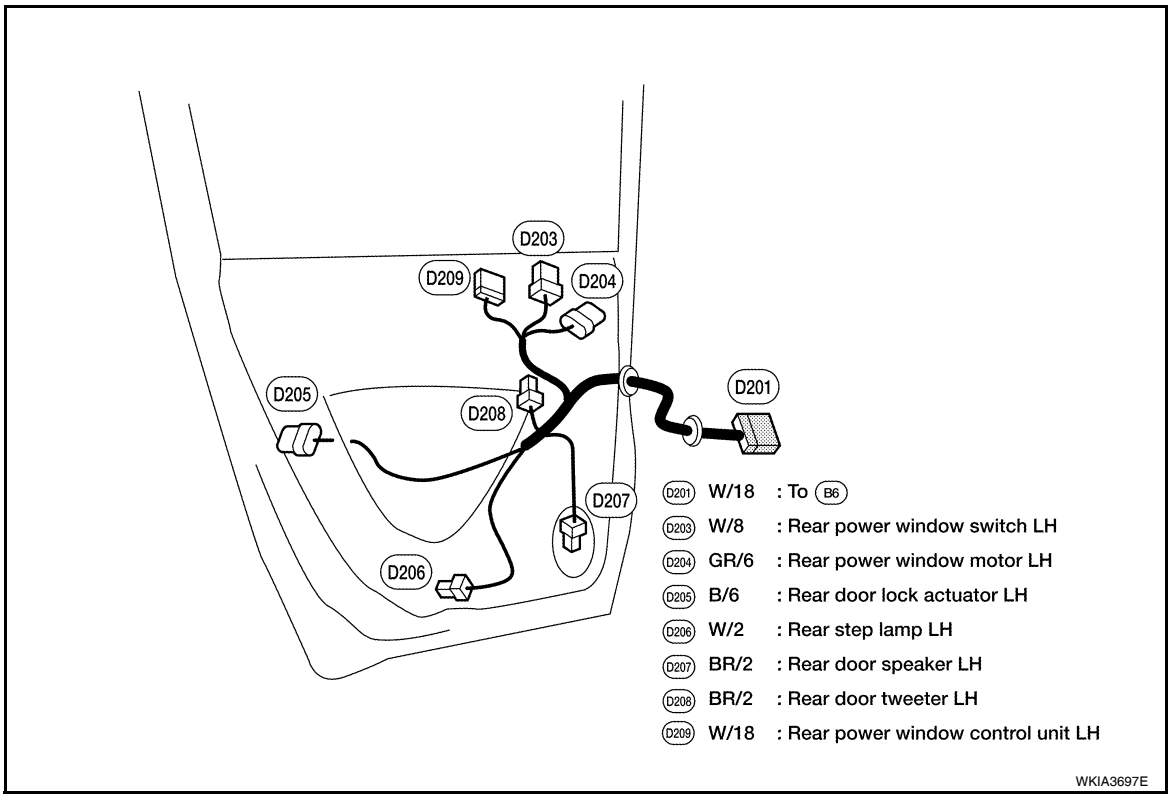


FRONT DOOR RH HARNESS

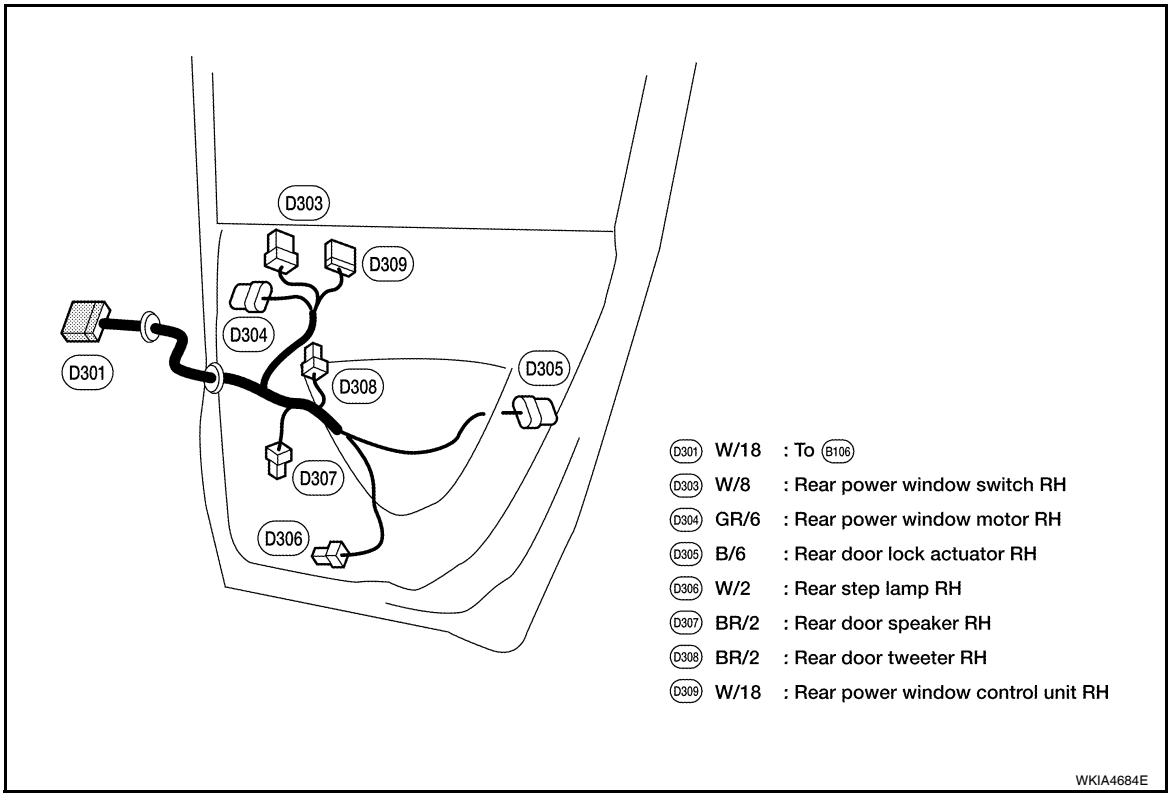
(D101) W/10 : To (M75)
(D102) BR/20 : To (M74)
(D104) GR/6 : Front power window motor RH
(D105) W/16 : Power window and door lock/unlock switch RH
(D107) W/16 : Door mirror RH
(D109) W/2 : Front step lamp RH
(D112) W/2 : Front door speaker RH
(D114) B/6 : Front door lock actuator RH

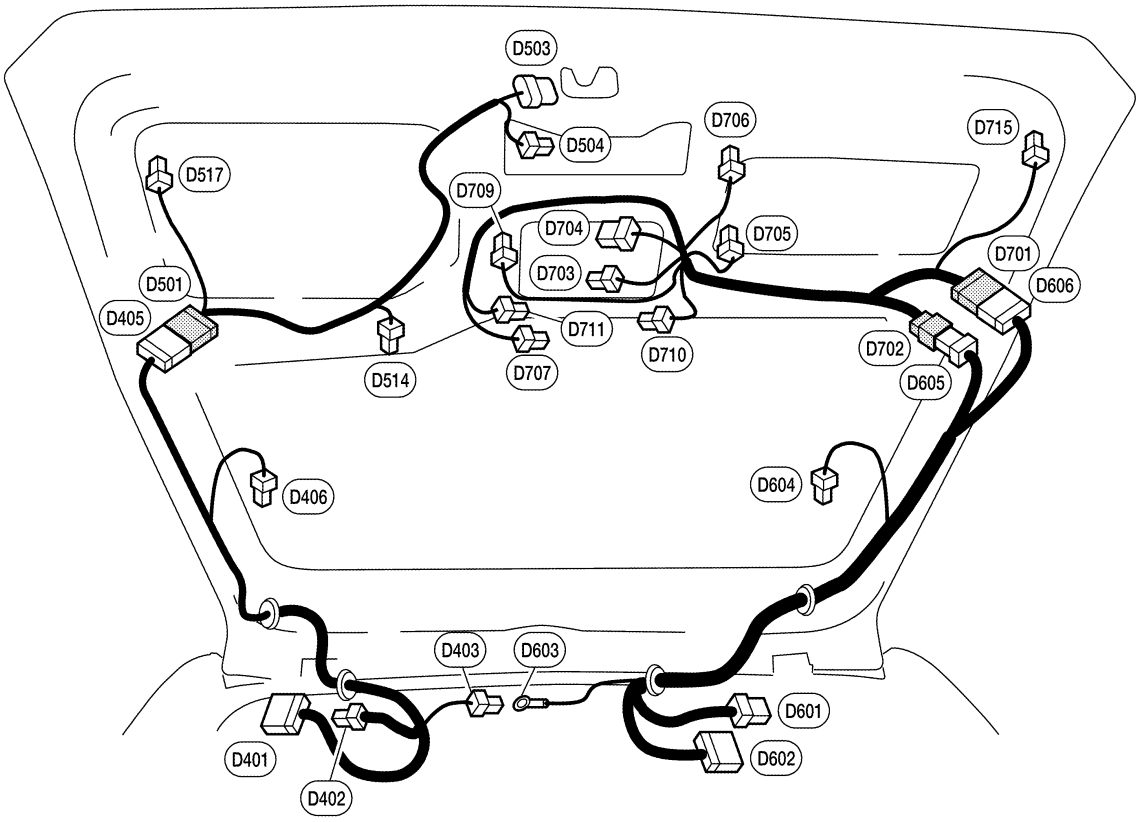


REAR DOOR LH HARNESS



REAR DOOR RH HARNESS





Back door No. 2 LH harness

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

Back door LH harness

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

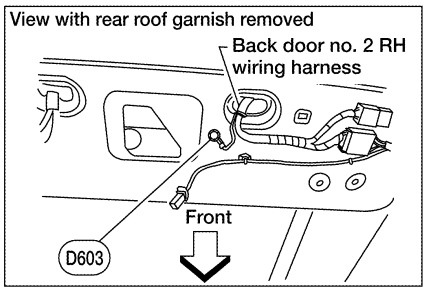
Back door No. 2 RH harness

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

Back door RH harness

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

Body ground



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

Wiring Diagram Codes (Cell Codes)

INFOID:0000000003533847

Use the chart below to find out what each wiring diagram code stands for.
Refer to the wiring diagram code in the alphabetical index to find the location (page number) of each wiring diagram.

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

ICC/BS	EC	ICC Steering Switch
ICC/SW	EC	ICC Brake Switch
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INJECT	EC	Injector
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
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
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
R/VIEW	DI	Rear View Monitor
RP/SEN	EC	Refrigerant Pressure Sensor
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
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps

WINDOW	GW	Power Window
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer

ELECTRICAL UNITS LOCATION

Electrical Units Location

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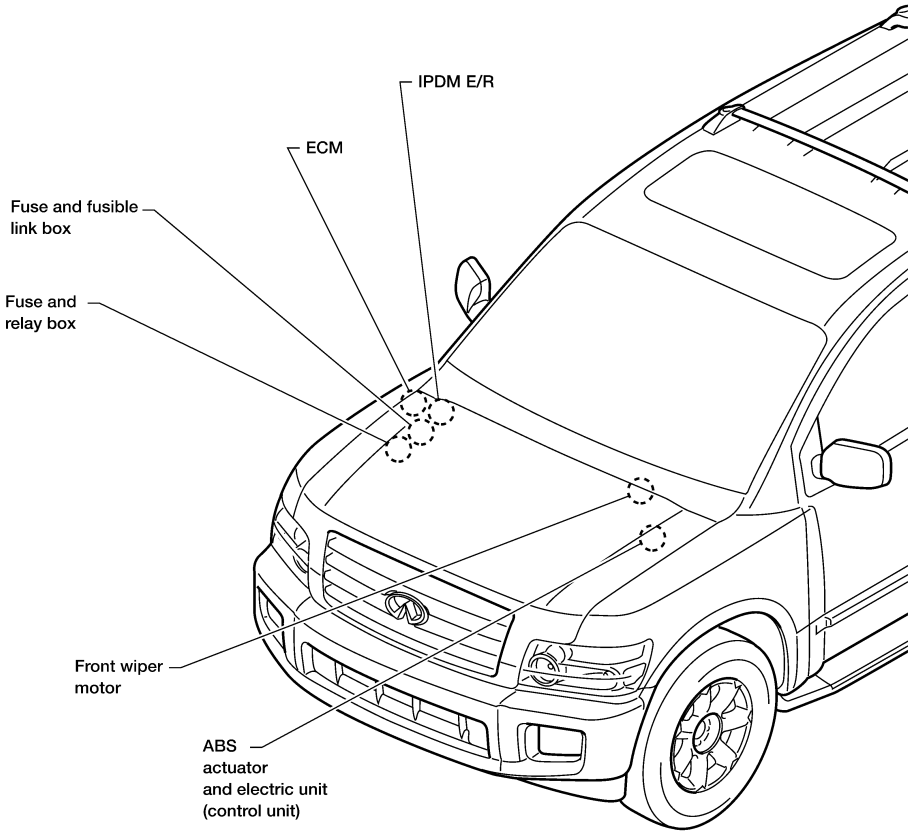
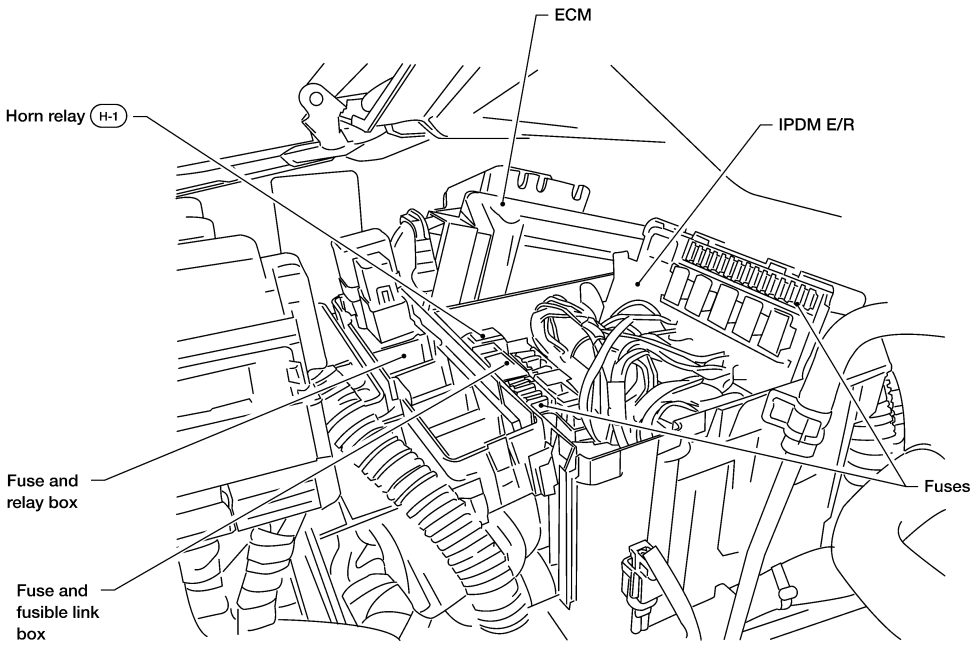
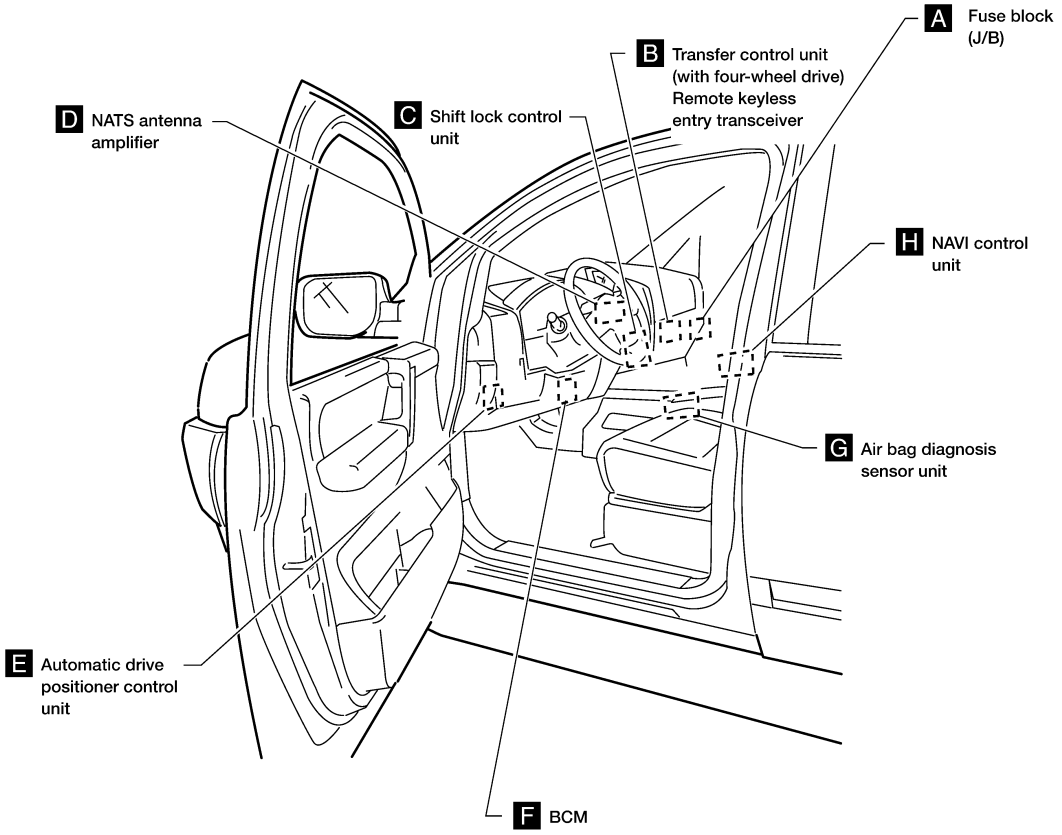
ENGINE COMPARTMENT

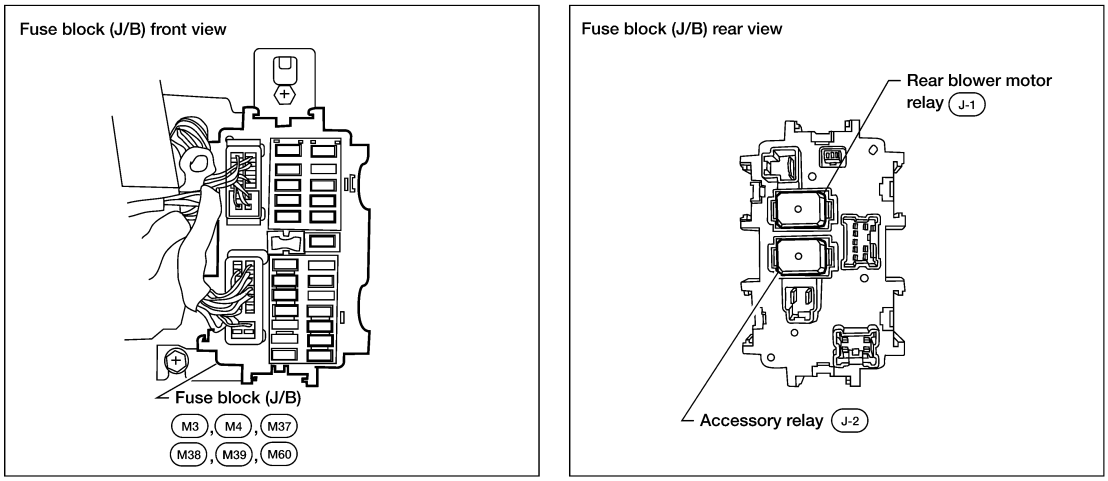




WKIA2014E

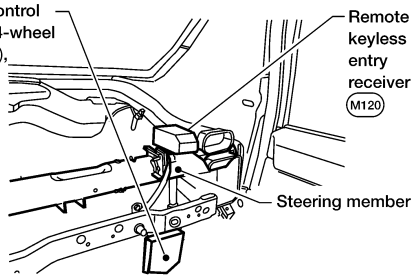


A Instrument panel side RH

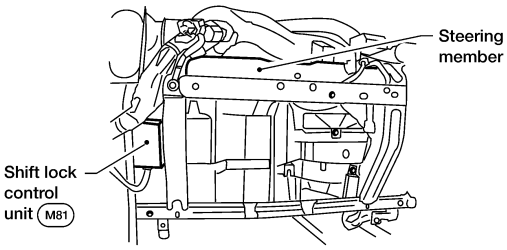


WKIA4687E

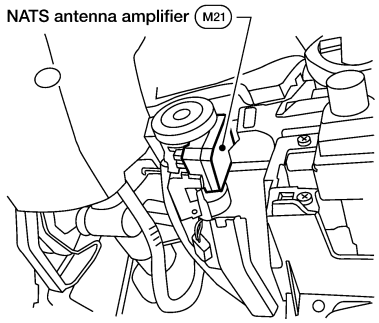
B View with instrument panel removed RH



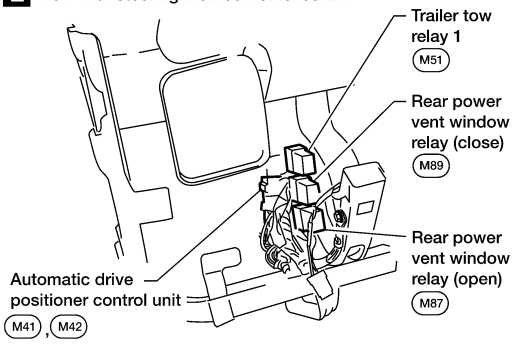
C View with instrument panel removed RH



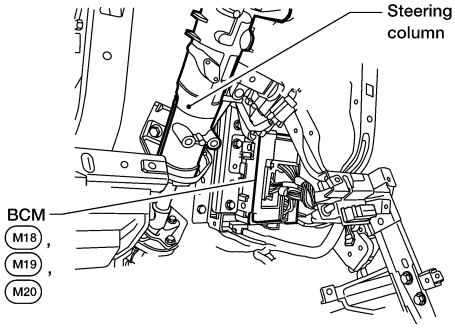
D View with lower driver instrument panel removed



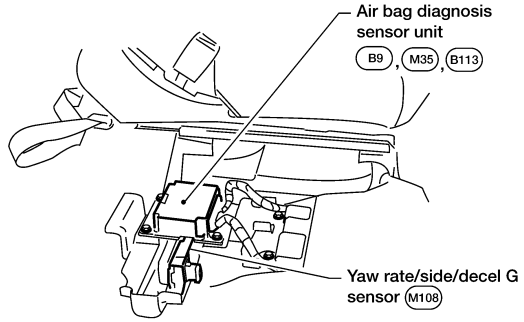
E View with steering member removed LH



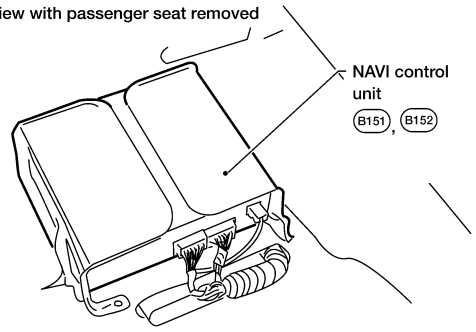
F View with instrument panel removed



G View with center console removed



H View with passenger seat removed



WKIA4688E

HARNESS CONNECTOR

Description

INFOID:0000000003533849

HARNESS CONNECTOR (TAB-LOCKING TYPE)

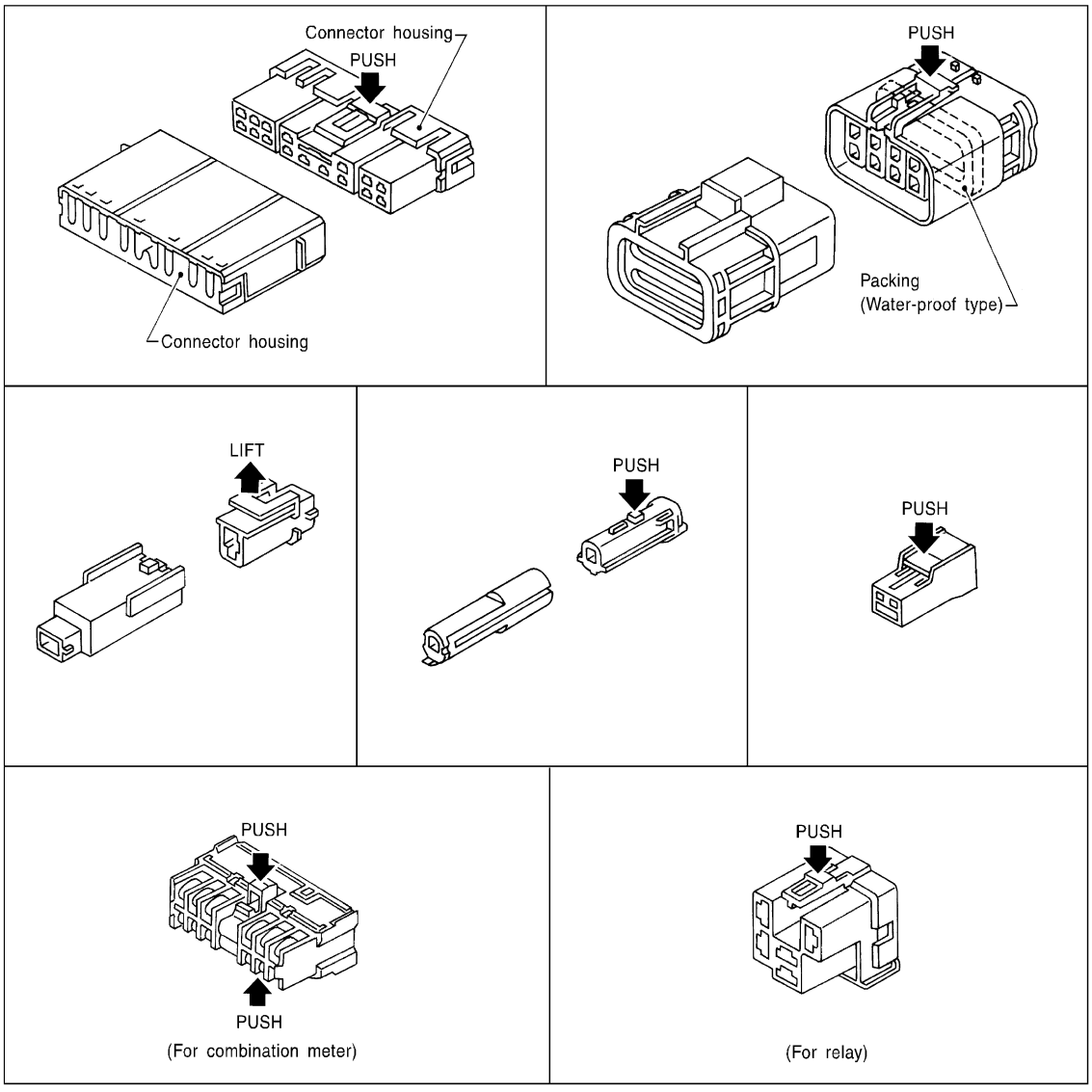
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



SEL769DA

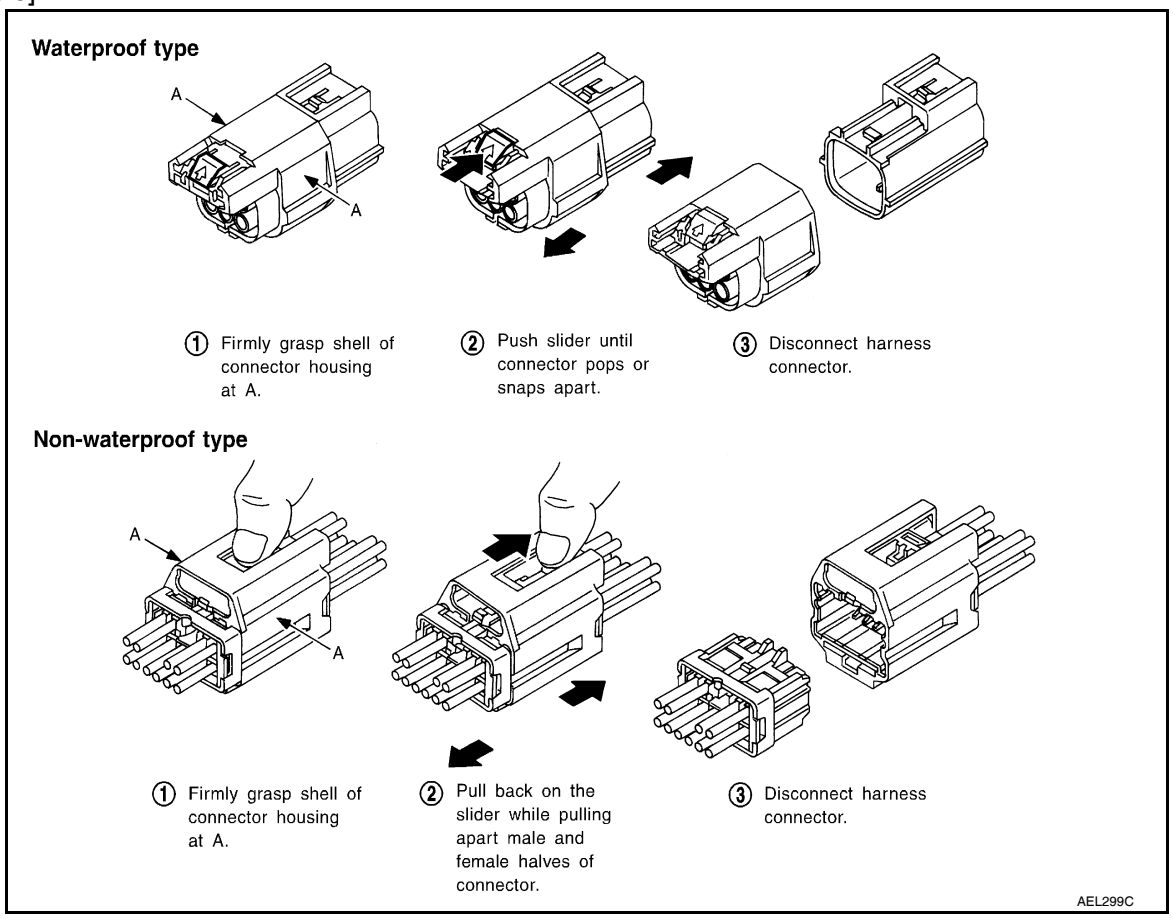
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]

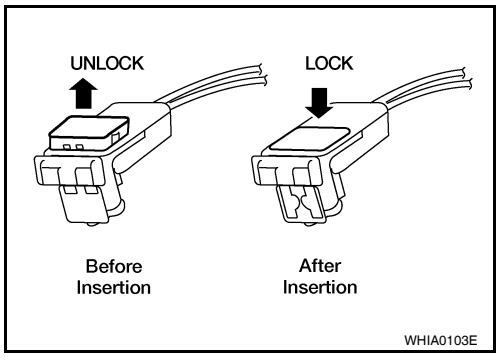


HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- 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.**

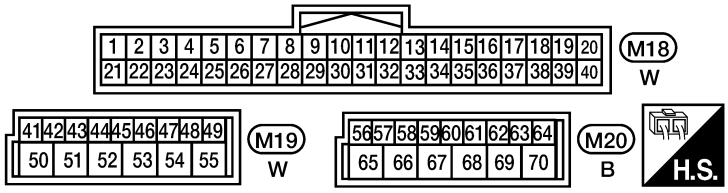


ELECTRICAL UNITS

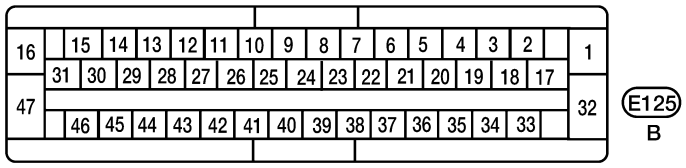
Terminal Arrangement

INFOID:0000000003533850

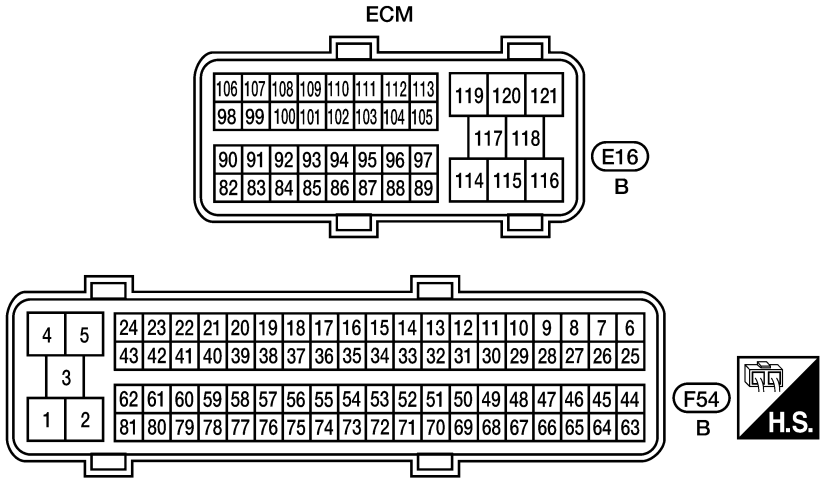
BCM (BODY CONTROL MODULE)



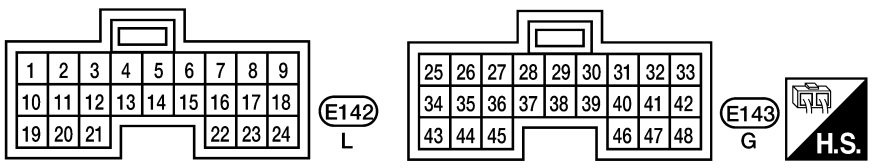
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



ECM



TRANSFER CONTROL UNIT



WKIA4689E

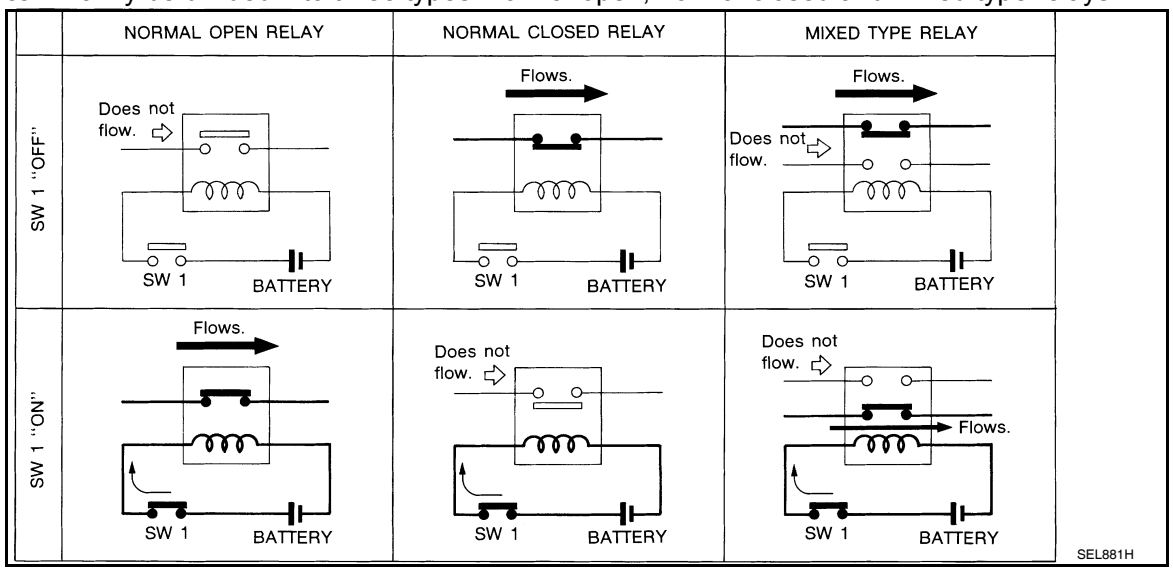
STANDARDIZED RELAY

Description

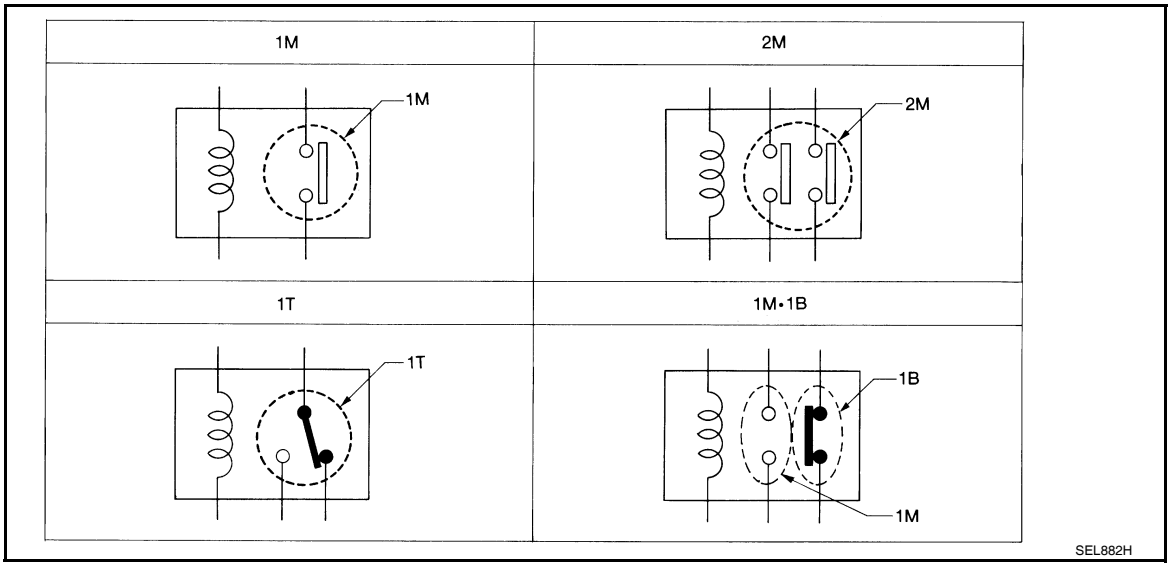
INFOID:0000000003533851

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

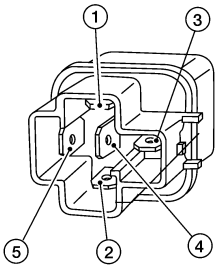
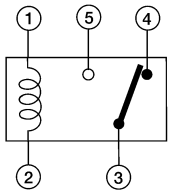
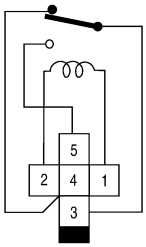
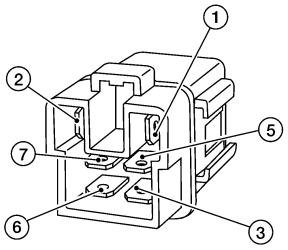
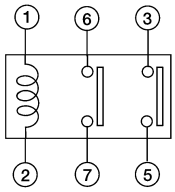
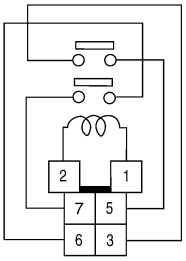
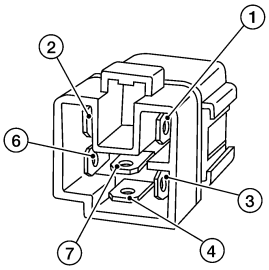
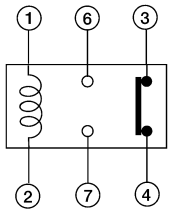
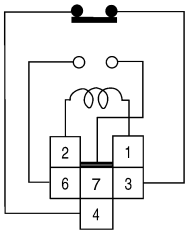
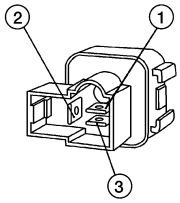
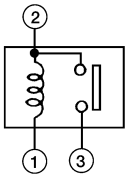
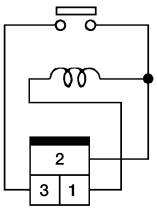
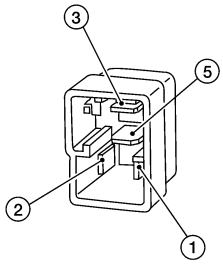
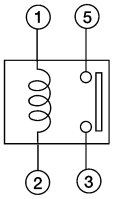
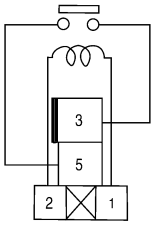
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



TYPE OF STANDARDIZED RELAYS



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

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

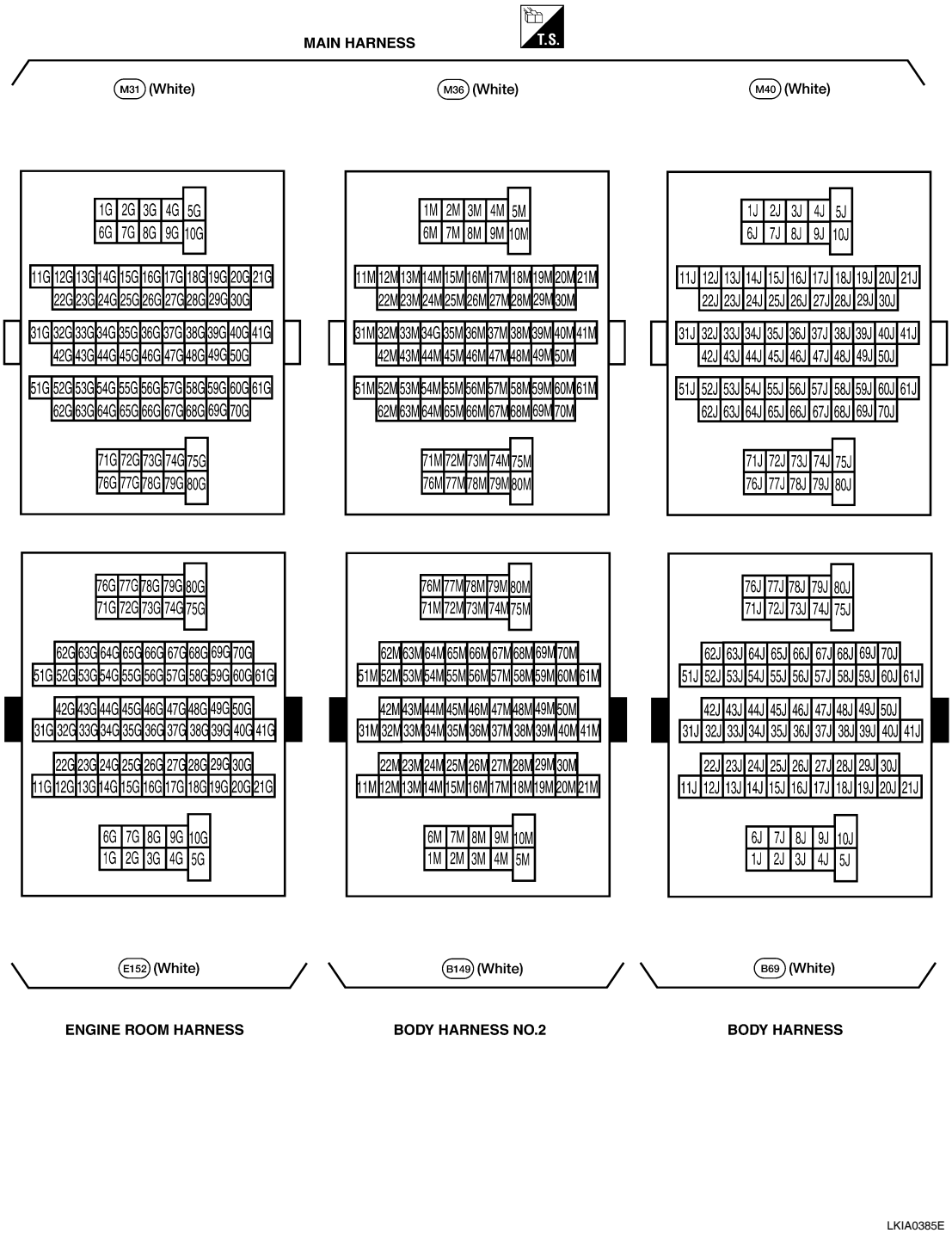
The arrangement of terminal numbers on the actual relays may differ from those shown above.

WKIA0253E

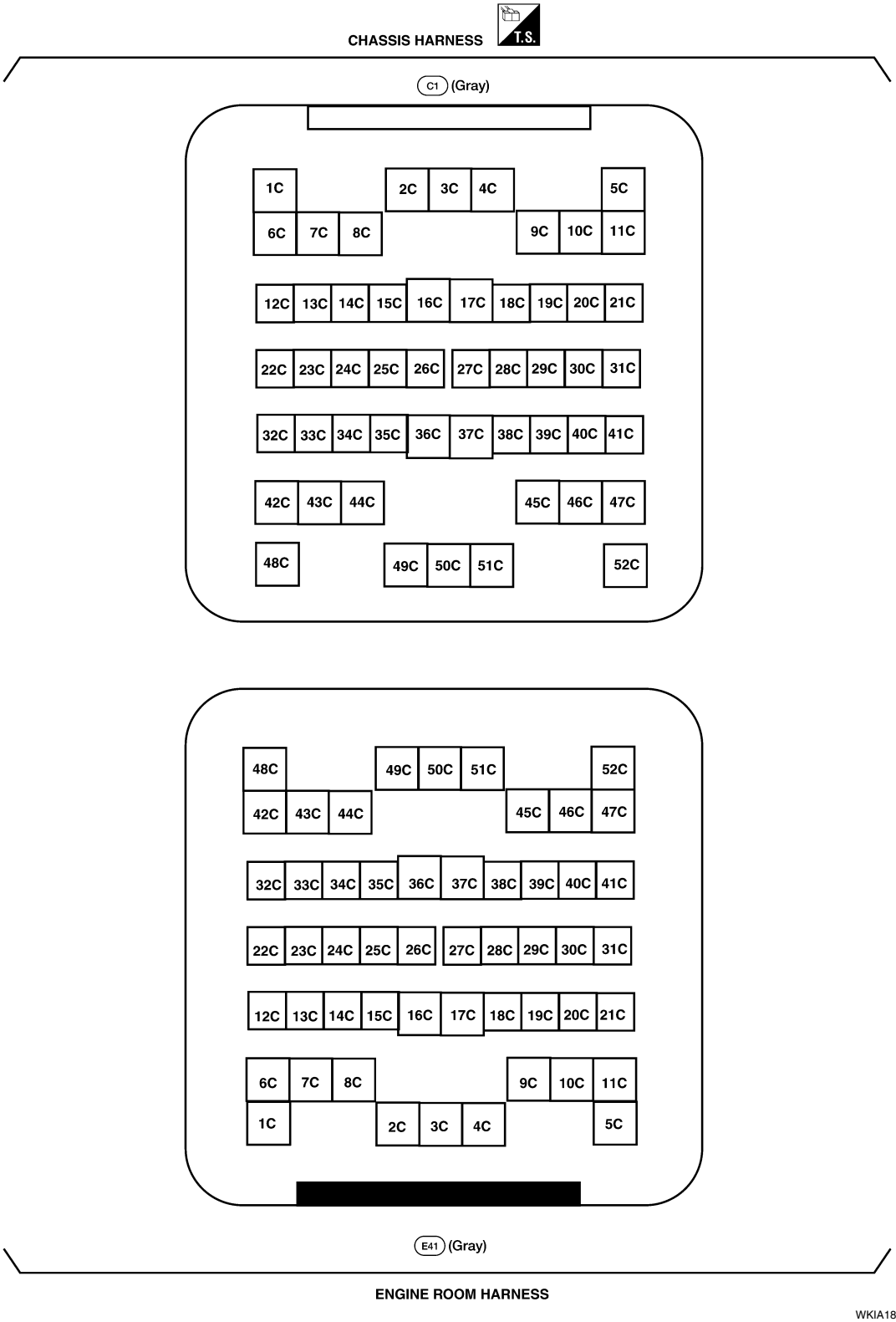
SUPER MULTIPLE JUNCTION (SMJ)

Terminal Arrangement

INFOID:0000000003533852



LKIA0385E


CHASSIS HARNESS
T.S.
C1 (Gray)
1C
2C
3C
4C
5C
6C
7C
8C
9C
10C
11C
12C
13C
14C
15C
16C
17C
18C
19C
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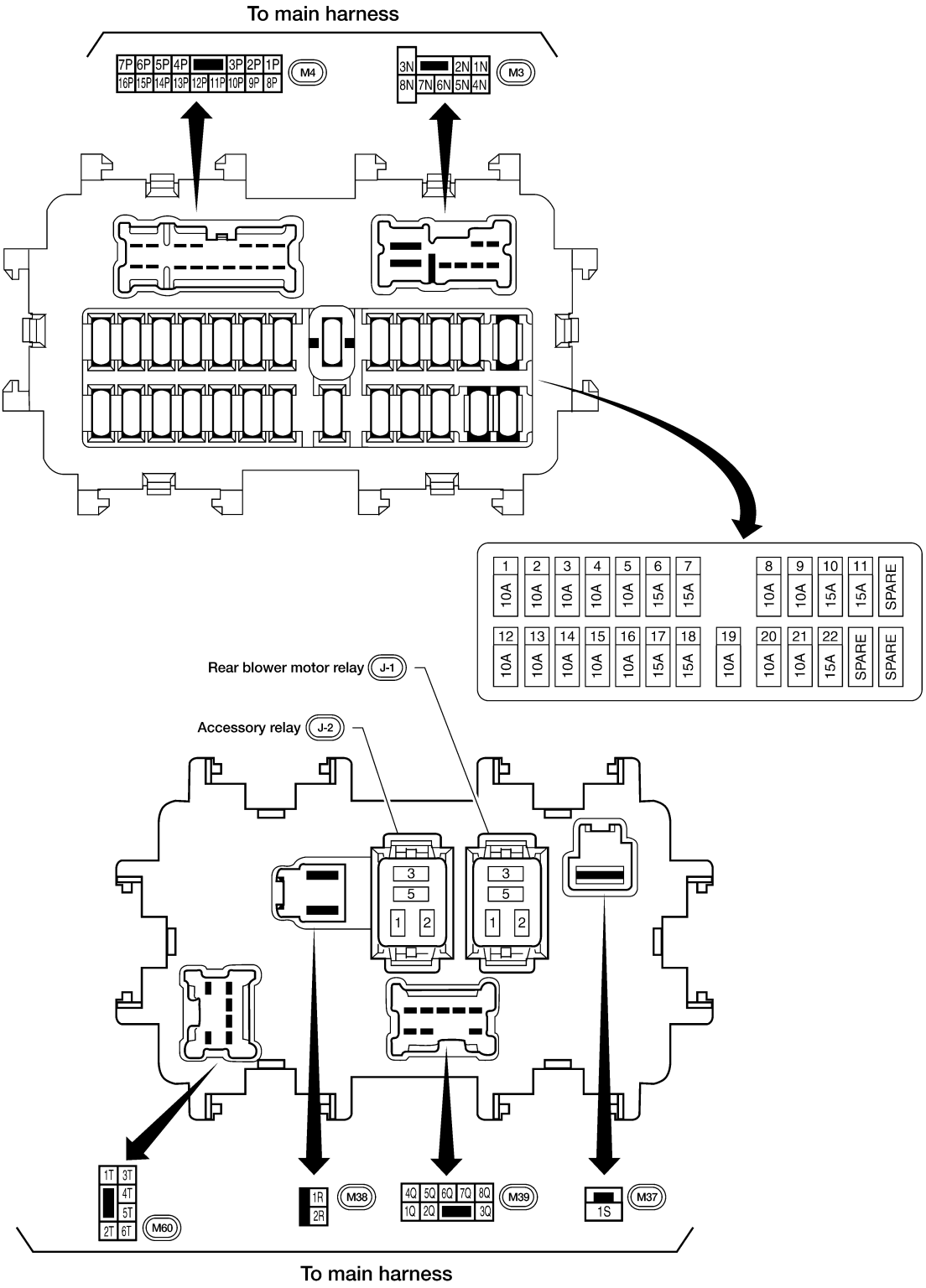
28C
29C
30C
31C
12C
13C
14C
15C
16C
17C
18C
19C
20C
21C
6C
7C
8C
9C
10C
11C
1C
2C
3C
4C
5C
E41 (Gray)
ENGINE ROOM HARNESS

WKIA1845E

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:0000000003533853

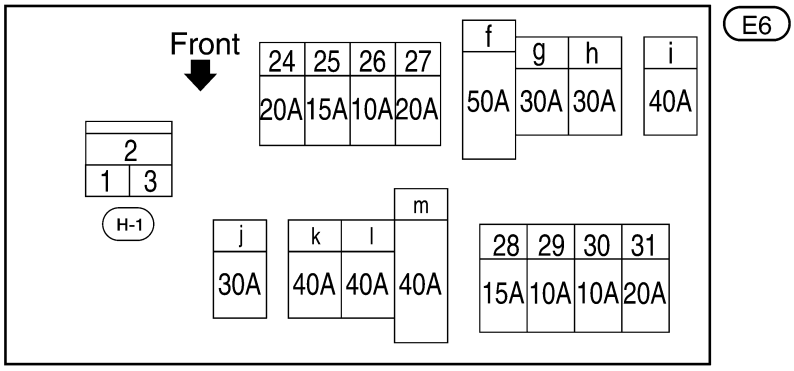


AWMIA0896GB

FUSE AND FUSIBLE LINK BOX

Terminal Arrangement

INFOID:0000000003533854



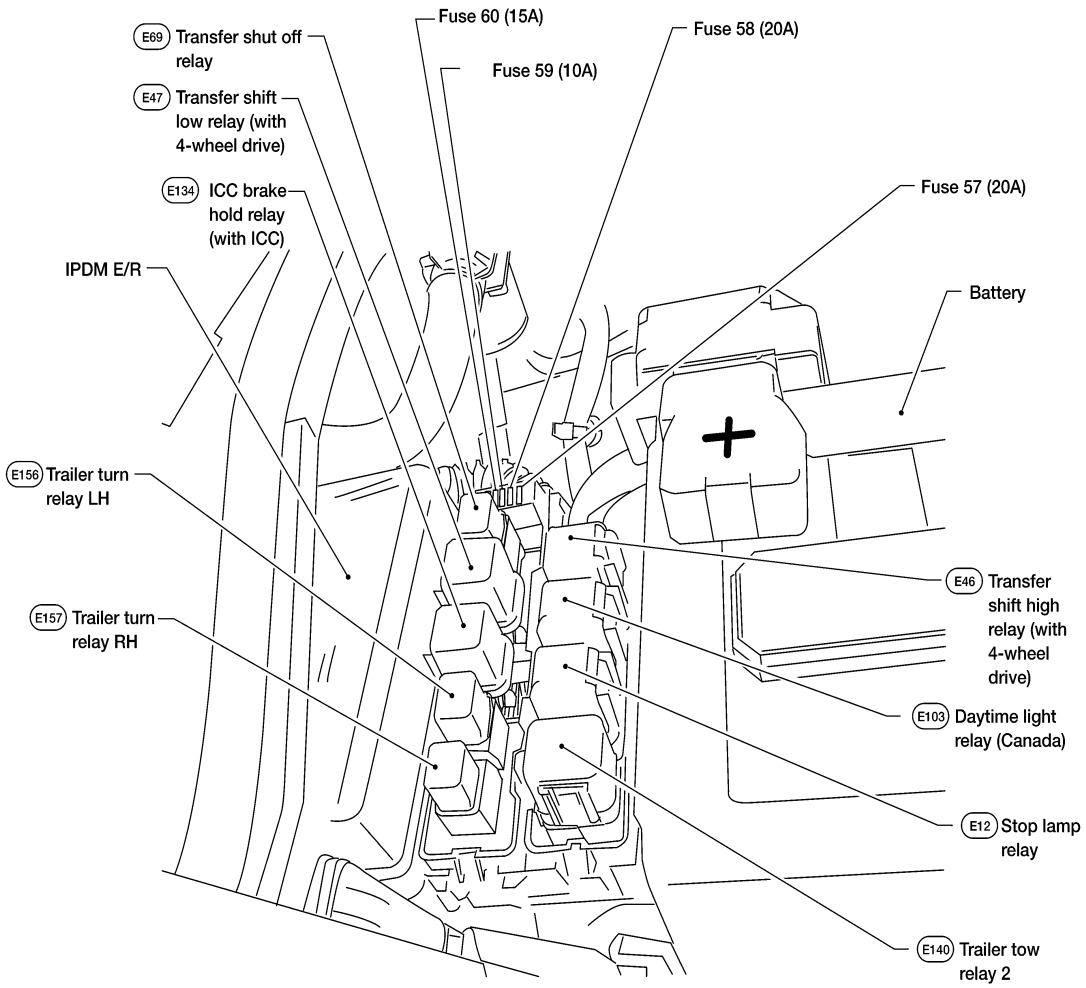
24 - 31: FUSE f - m: FUSIBLE LINK

WKIA4691E

FUSE AND RELAY BOX

Terminal Arrangement

INFOID:0000000003533855



WKIA5846E