

SECTION

PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

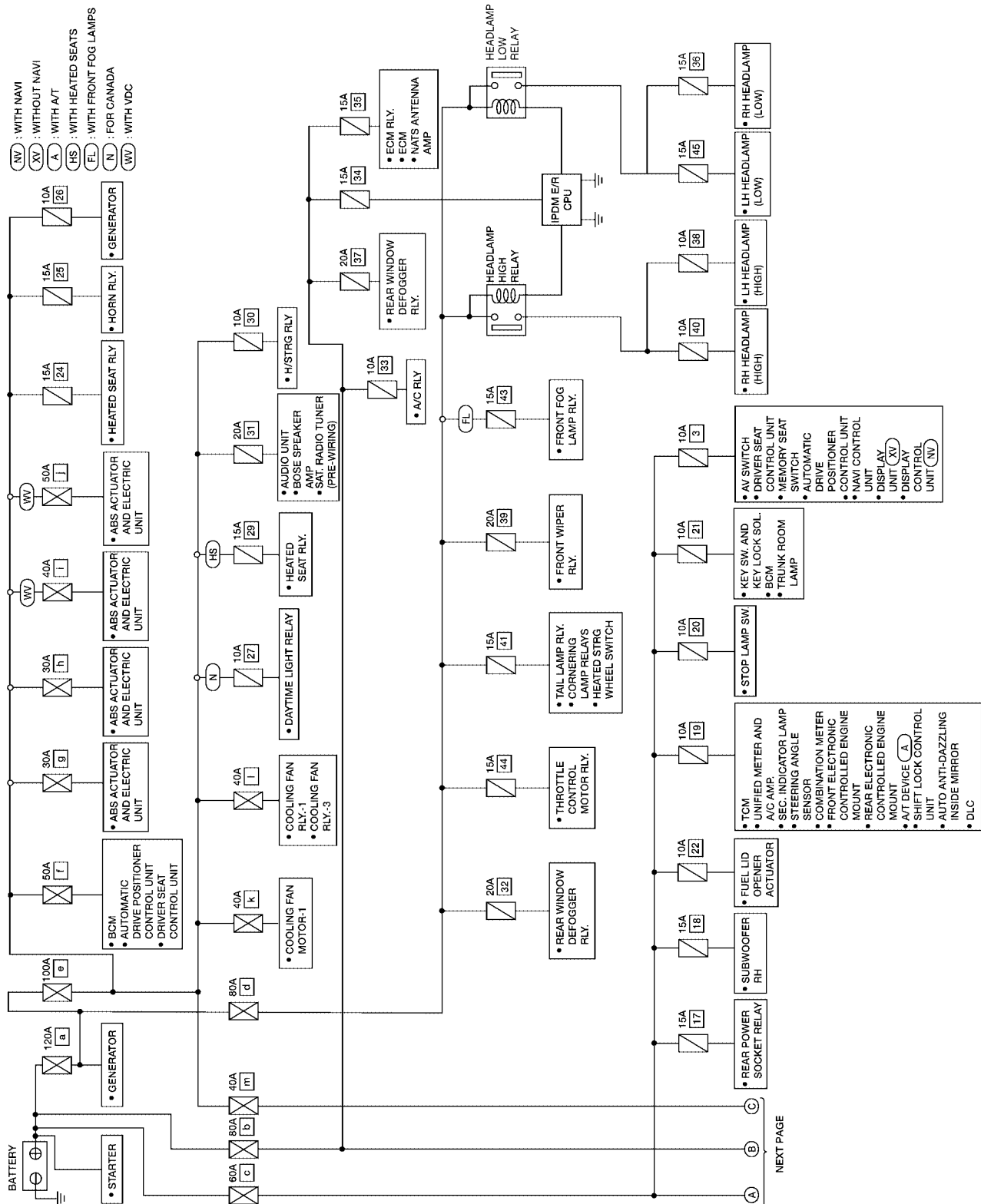
POWER SUPPLY ROUTING CIRCUIT	3	GROUND CIRCUIT	27	
Schematic	3	Ground Distribution	27	
Wiring Diagram — POWER —	5	MAIN HARNESS	27	
BATTERY POWER SUPPLY — IGNITION SW.		ENGINE ROOM HARNESS	30	
IN ANY POSITION	5	ENGINE CONTROL HARNESS	32	
ACCESSORY POWER SUPPLY — IGNITION		BODY HARNESS	33	
SW. IN ACC OR ON	9	BODY NO. 2 HARNESS	34	
IGNITION POWER SUPPLY — IGNITION SW.		HARNESS	36	
IN ON	10	Harness Layout	36	
IGNITION POWER SUPPLY — IGNITION SW.		HOW TO READ HARNESS LAYOUT	36	
IN ON AND/OR START	11	OUTLINE	37	
IPDM E/R (INTELLIGENT POWER DISTRIBUTION		MAIN HARNESS	38	
MODULE ENGINE ROOM)	14	ENGINE ROOM HARNESS (LH VIEW)	40	
System Description	14	ENGINE ROOM HARNESS (RH VIEW)	43	
SYSTEMS CONTROLLED BY IPDM E/R	14	ENGINE CONTROL HARNESS	45	
CAN COMMUNICATION LINE CONTROL	14	BODY HARNESS AND TAIL HARNESS	47	
IPDM E/R STATUS CONTROL	15	BODY NO. 2 HARNESS AND BODY NO. 3 HAR-		
Function of Detecting Ignition Relay Malfunction ...	15	NESS	49	
CONSULT-II Function	16	ROOM LAMP HARNESS	51	
CONSULT-II BASIC OPERATION	16	FRONT DOOR LH HARNESS	52	
SELF-DIAGNOSTIC RESULTS	17	FRONT DOOR RH HARNESS	52	
DATA MONITOR	17	REAR DOOR LH HARNESS	53	
CAN DIAGNOSIS SUPPORT MONITOR	18	REAR DOOR RH HARNESS	53	
ACTIVE TEST	19	Wiring Diagram Codes (Cell Codes)	54	
Auto Active Test	19	ELECTRICAL UNITS LOCATION	57	
DESCRIPTION	19	Electrical Units Location	57	
OPERATION PROCEDURE	19	ENGINE COMPARTMENT	57	
INSPECTION IN AUTO ACTIVE TEST MODE...	20	PASSENGER COMPARTMENT	58	
Schematic	22	Fuse	60	
IPDM E/R Terminal Arrangement	23	Fusible Link	60	
IPDM E/R Power/Ground Circuit Inspection	24	Circuit Breaker (Built Into BCM)	60	
Inspection with CONSULT-II (Self-Diagnosis)	25	HARNESS CONNECTOR	61	
Removal and Installation of IPDM E/R	26	Description	61	
REMOVAL	26	HARNESS CONNECTOR (TAB-LOCKING		
INSTALLATION	26	TYPE)	61	
		HARNESS CONNECTOR (SLIDE-LOCKING		
		TYPE)	62	
		HARNESS CONNECTOR (DIRECT-CONNECT		
		SRS COMPONENT TYPE)	62	

ELECTRICAL UNITS	64	MIXED TYPE RELAYS	65
Terminal Arrangement	64	TYPE OF STANDARDIZED RELAYS	65
STANDARDIZED RELAY	65	FUSE BLOCK-JUNCTION BOX(J/B)	67
Description	65	Terminal Arrangement	67
NORMAL OPEN, NORMAL CLOSED AND		FUSE AND FUSIBLE LINK BOX	68
		Terminal Arrangement	68

POWER SUPPLY ROUTING CIRCUIT

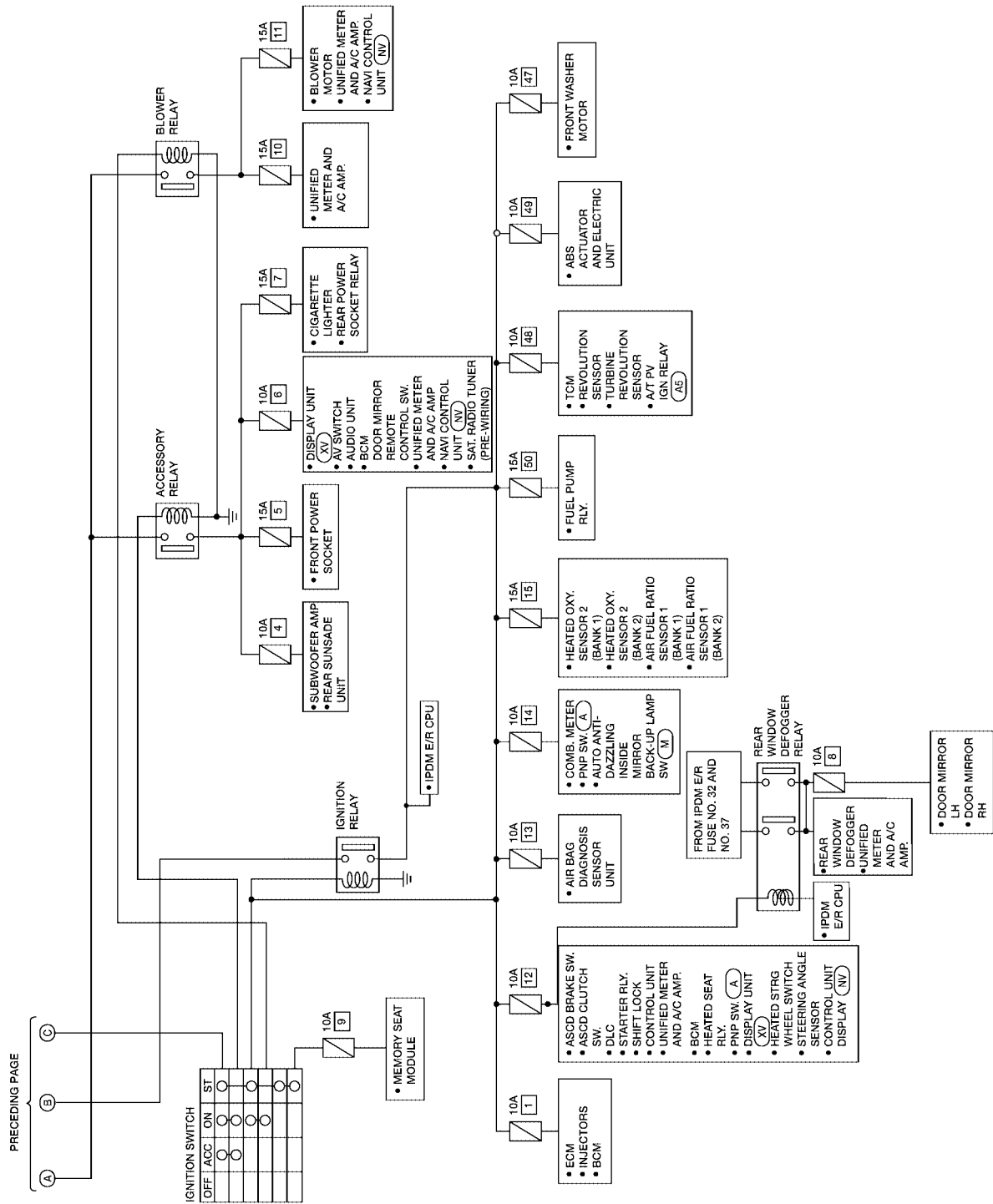
Schematic

For detailed ground distribution, refer to [PG-27, "Ground Distribution"](#).



POWER SUPPLY ROUTING CIRCUIT

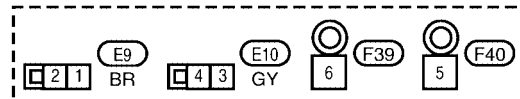
M : WITH M/T
 A : WITH A/T
 N : FOR CANADA
 AC : WITH 4-SPEED A/T
 AS : WITH 5-SPEED A/T
 NV : WITH NAVI
 XV : WITHOUT NAVI



WKWA0931E

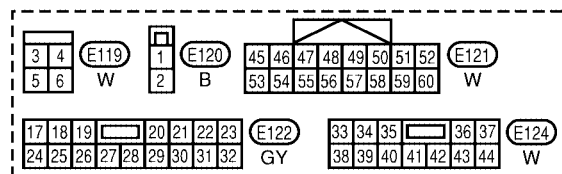
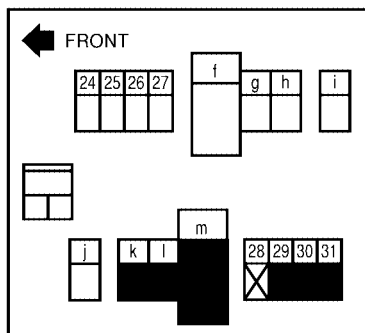
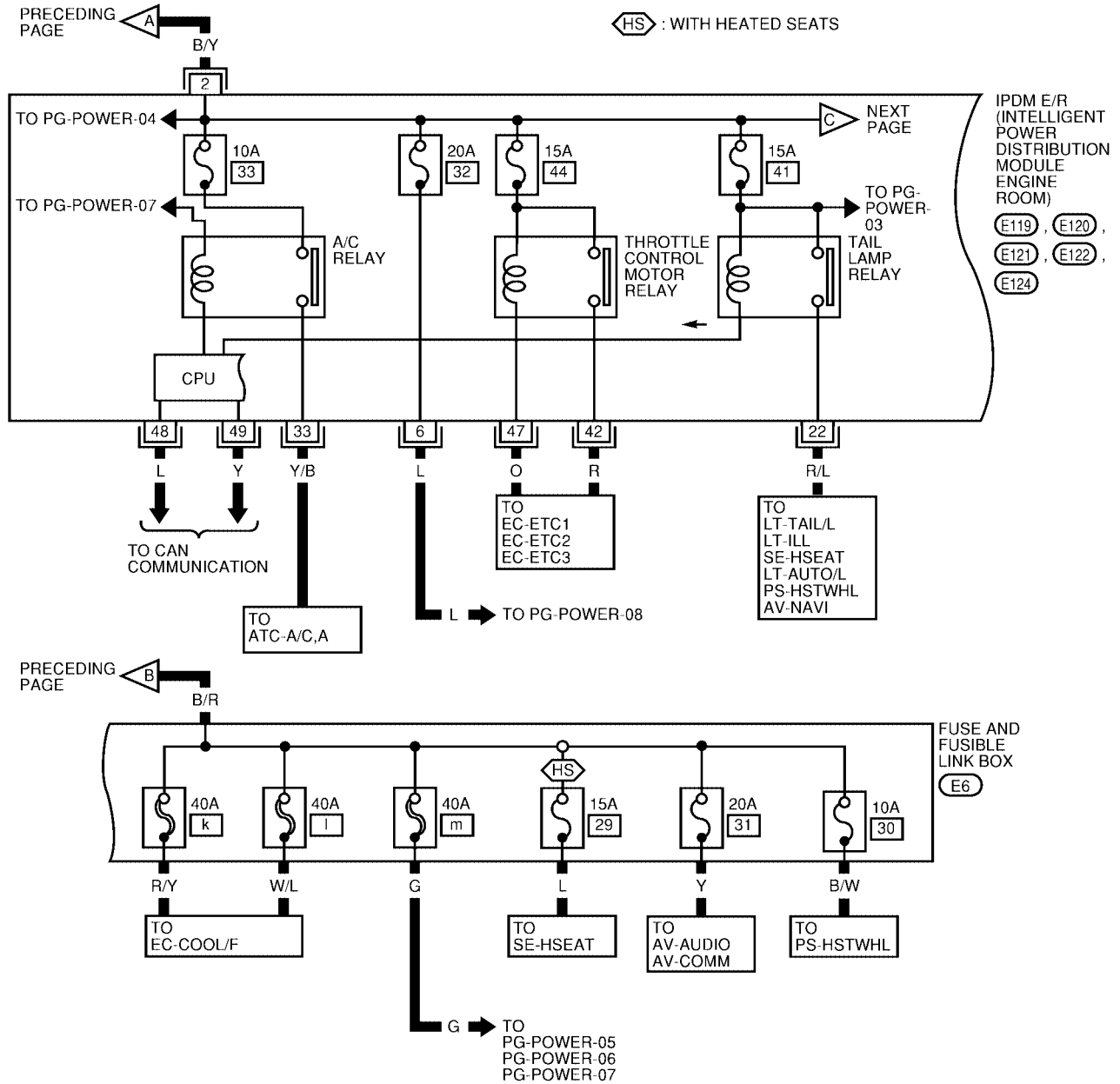
EKS003X2

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POWER SUPPLY ROUTING CIRCUIT

PG-POWER-02



WKWA0460E

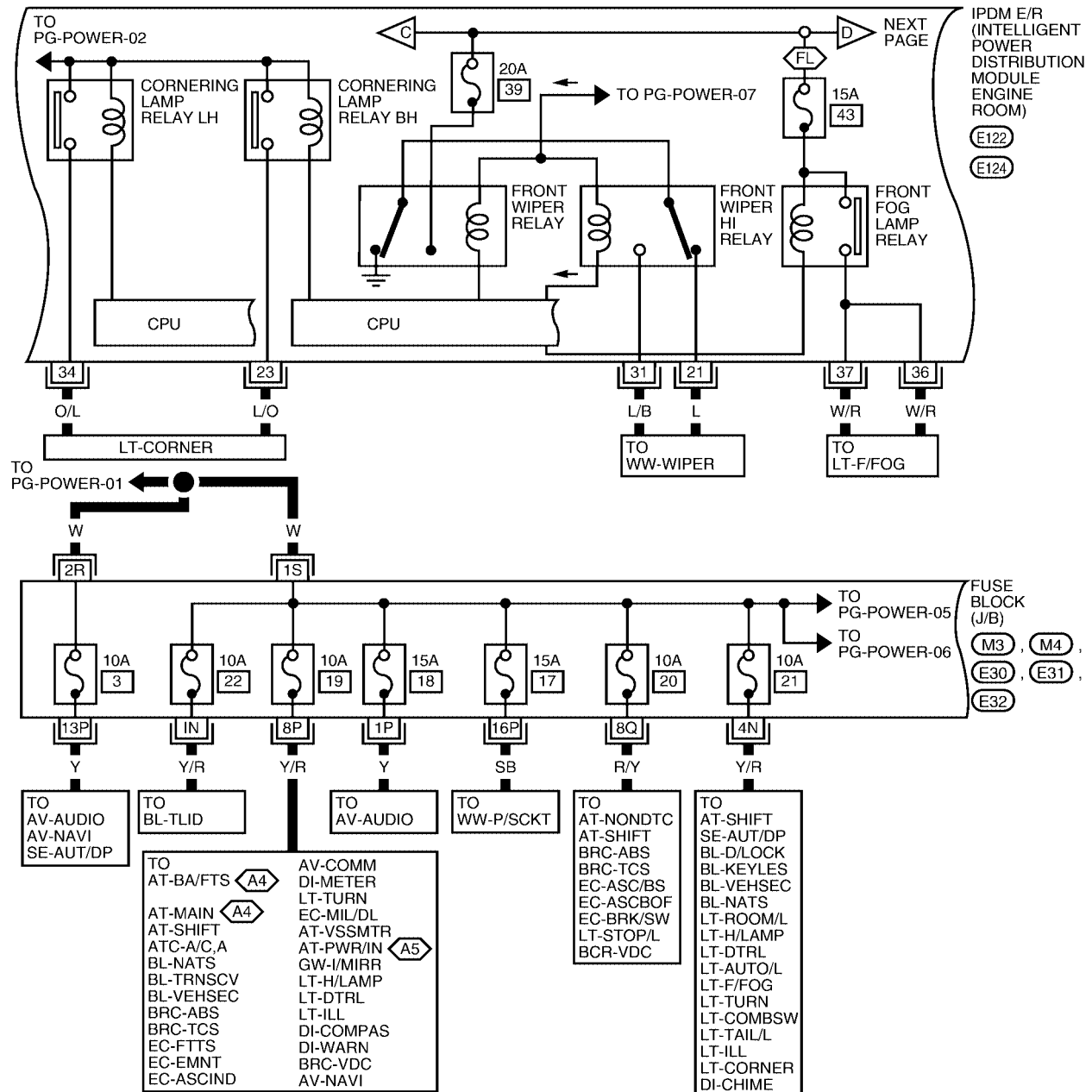
POWER SUPPLY ROUTING CIRCUIT

A4 : WITH 4-SPEED A/T

A5 : WITH 5-SPEED A/T

FL : WITH FRONT FOG LAMPS

PG-POWER-03



17	18	19	20	21	22	23	E122
24	25	26	27	28	29	30	GY

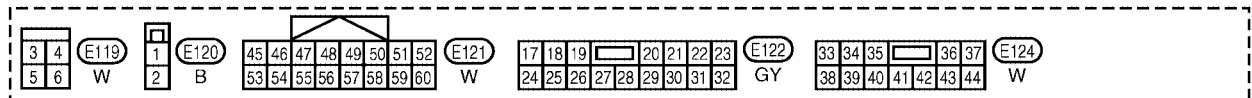
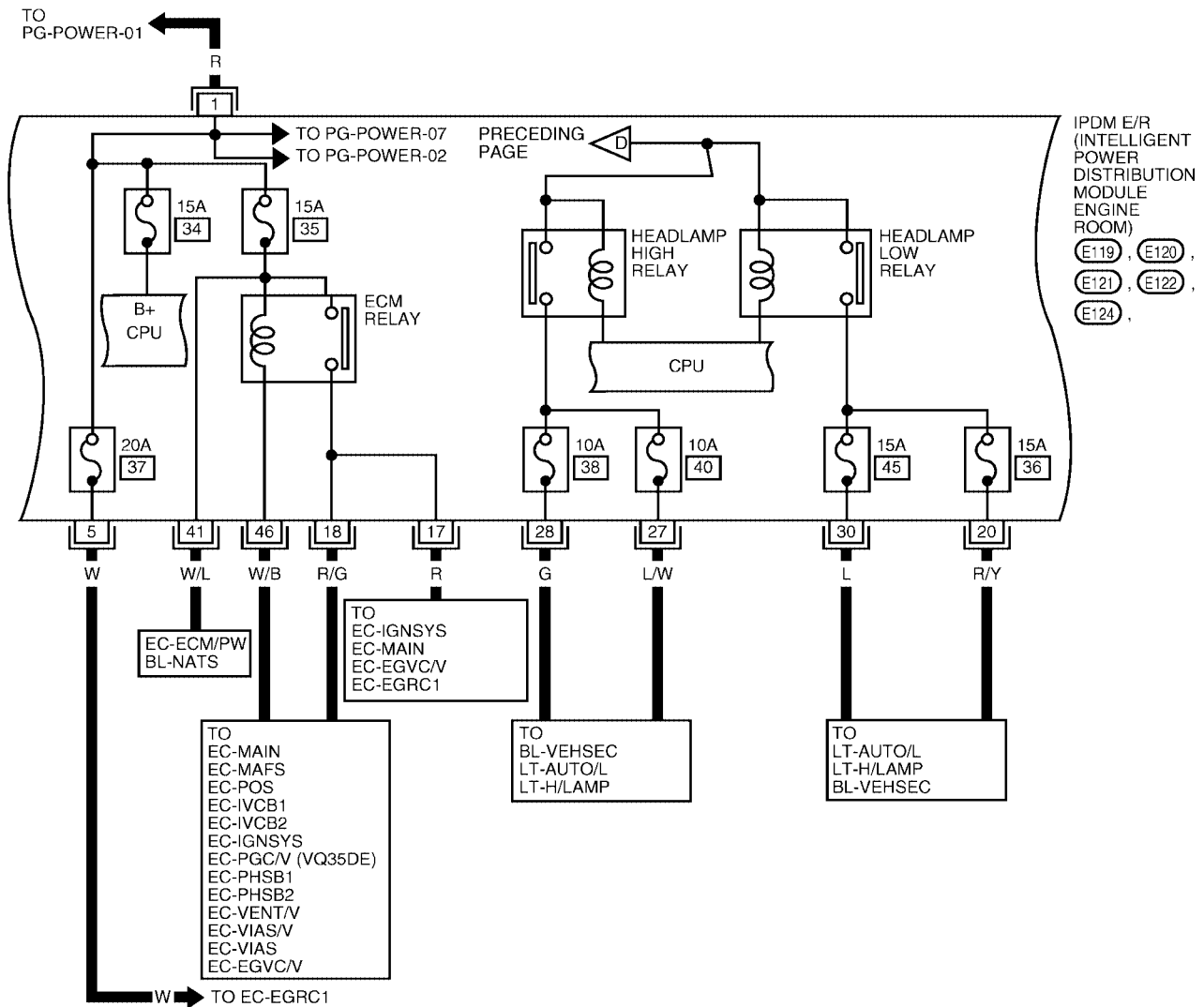
33	34	34	36	37	E124
38	39	40	41	42	W

REFER TO THE FOLLOWING.

M3, M4, E30, E31, E32 UP
FUSE BLOCK - JUNCTION BOX (J/B) ↑

11	22
10	21
9	20
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5	16
4	15
3	14
2	13
1	12

WKWA0955E

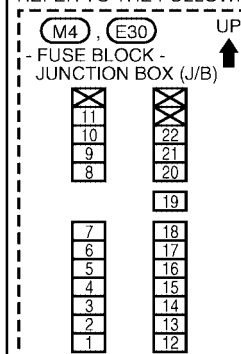


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PG-POWER-05



I REFER TO THE FOLLOWING.

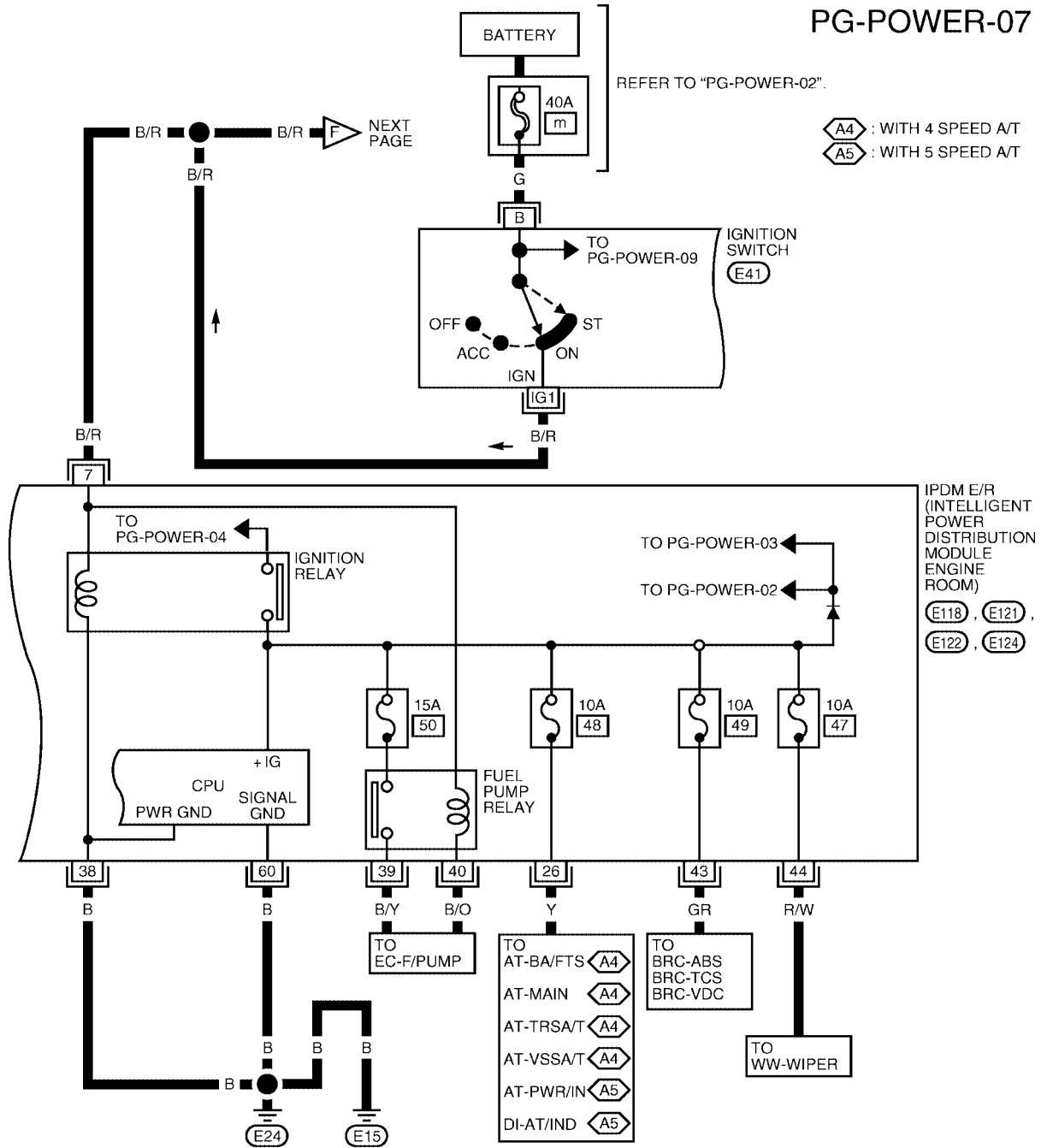


WKWA0463E

POWER SUPPLY ROUTING CIRCUIT

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

PG-POWER-07

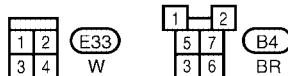
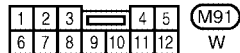
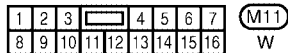
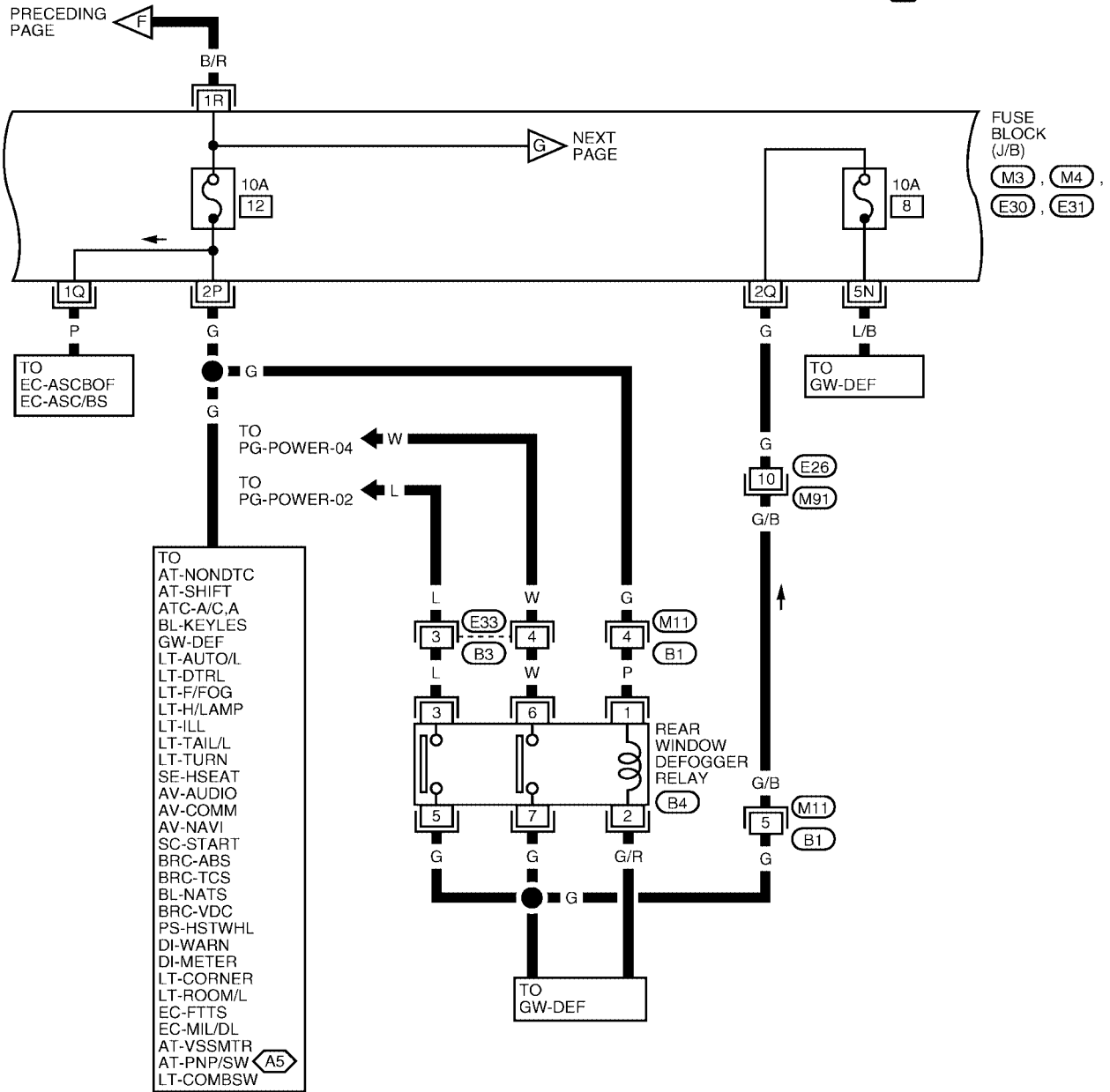


<table><tr><td>IG1</td><td>ST</td><td>B</td></tr><tr><td>IG2</td><td>ACC</td><td>R</td></tr></table>			IG1	ST	B	IG2	ACC	R	(E41)	<table><tr><td>7</td><td>8</td></tr><tr><td>9</td><td>10</td></tr></table>	7	8	9	10	(E118)	<table><tr><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td></tr><tr><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr></table>	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	(E121)	<table><tr><td>17</td><td>18</td><td>19</td><td></td><td>20</td><td>21</td><td>22</td><td>23</td></tr><tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td></tr></table>	17	18	19		20	21	22	23	24	25	26	27	28	29	30	31	32	(E122)	<table><tr><td>33</td><td>34</td><td>35</td><td></td><td>36</td><td>37</td></tr><tr><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td></tr></table>	33	34	35		36	37	38	39	40	41	42	43	44	(E124)
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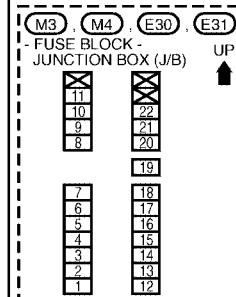
POWER SUPPLY ROUTING CIRCUIT

PG-POWER-08

A5 : With 5 speed A/T



REFER TO THE FOLLOWING.



WKWA0466E

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WKWA0467E

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

PF:284B7

System Description

EKS005GU

- 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 circuit.
- IPDM E/R-integrated control circuit performs ON-OFF operation of relays, CAN communication control, oil pressure switch signal reception, etc.
- It controls operation of each electrical component via 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 signal from BCM and controls the following lamps:
 - Head lamps (Hi, Lo)
 - Parking lamps
 - Tail lamps
 - Cornering lamps
 - Front fog lamps
2. Wiper control
Using CAN communication lines, it receives signals from BCM and controls the front wipers.
3. Rear window defogger relay control
Using CAN communication lines, it receives signals from BCM and controls the rear window defogger relay.
4. A/C compressor control
Using CAN communication lines, it receives signals from ECM and controls the A/C compressor (magnetic clutch).
5. Cooling fan control
Using CAN communication lines, it receives signals from ECM and controls cooling fan.
6. Horn control
Using CAN communication lines, it receives signals from BCM and controls 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 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.

Function of Detecting Ignition Relay Malfunction

EKS005GW

- 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

EKS005H6

CONSULT-II executes the following functions by combining data reception and command transmission via the CAN communication lines from the IPDM E/R.

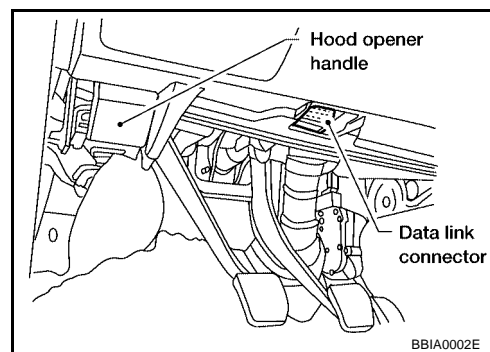
Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
ACTIVE TEST	The IPDM E/R sends a drive signal to electronic components to check their operation.

CONSULT-II BASIC OPERATION

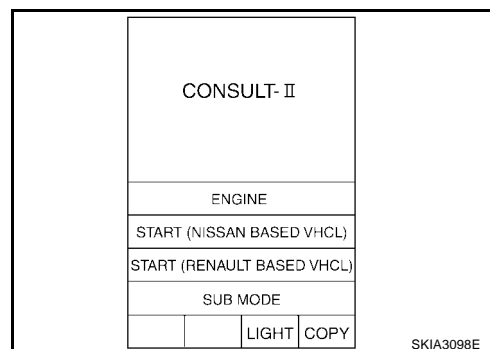
CAUTION:

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

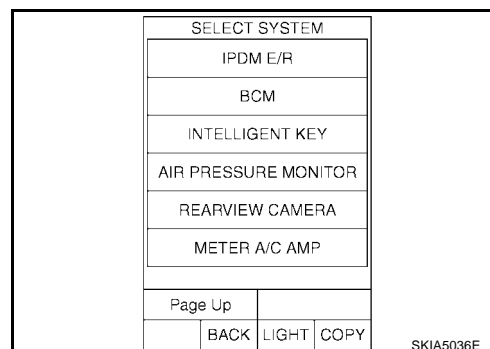
1. With the ignition switch OFF, connect "CONSULT-II" and "CONSULT-II CONVERTER" to the data link connector, then turn ignition switch ON.



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

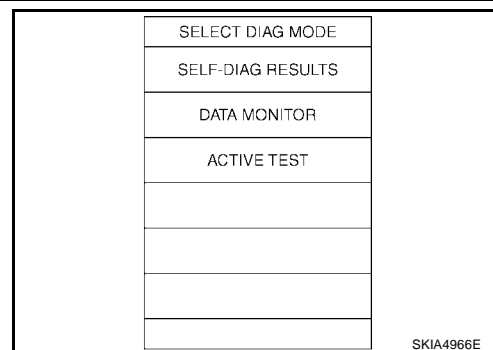


3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
 - If "IPDM E/R" is not displayed, print "SELECT SYSTEM" screen, then refer to [LAN-6, "Precautions for CAN System"](#).



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

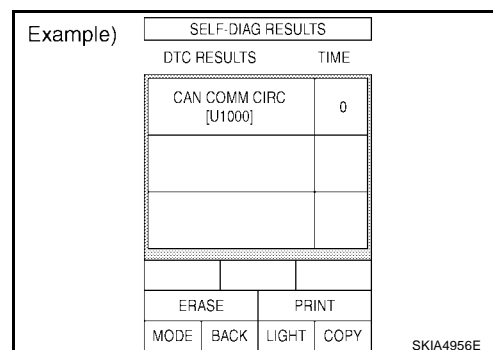
4. Select "SELF-DIAG RESULTS" or "DATA MONITOR".



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	Error return condition	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 an error, 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"> ● CAN CIRC 1 ● CAN CIRC 2 ● CAN CIRC 3

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".
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/1LO/LO/HI	X	X	X	Signal status input from BCM
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	X	X	X	Output status of IPDM E/R
Wiper protection	WIP PROT	OFF/LS/HS/Block	X		X	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	OPEN/CLOSE	X		X	Signal status input from IPDM E/R
Theft warning horn request	THFT HRN REQ	ON/OFF	X		X	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	X		X	Output status of IPDM E/R
Cornering lamp request	CRNRNG LMP REQ	OFF/LEFT/RIGHT	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.

CAN DIAGNOSIS SUPPORT MONITOR

Operation Procedure

1. Touch "DATA MONITOR" on "SELECT MONITOR ITEM" screen.
2. Touch "CAN DIAG SUPPORT MNTR" on the "DATA MONITOR" screen.
3. Touch "START".
4. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

Item name	Display
CAN CIRC 1	OK/UNKWN
CAN CIRC 2	OK/UNKWN
CAN CIRC 3	OK/UNKWN
CAN 1 STAT	0 - 40
CAN 2 STAT	0 - 40
CAN 3 STAT	0 - 40

NOTE:

- 0: Normal
- 1 - 40: Error detected in the past and stored in IPDM E/R memory.

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

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

Auto Active Test DESCRIPTION

EKS005GX

- 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
 - Cornering lamps
 - Front fog lamps
 - Headlamps (Hi, Lo)
 - 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.

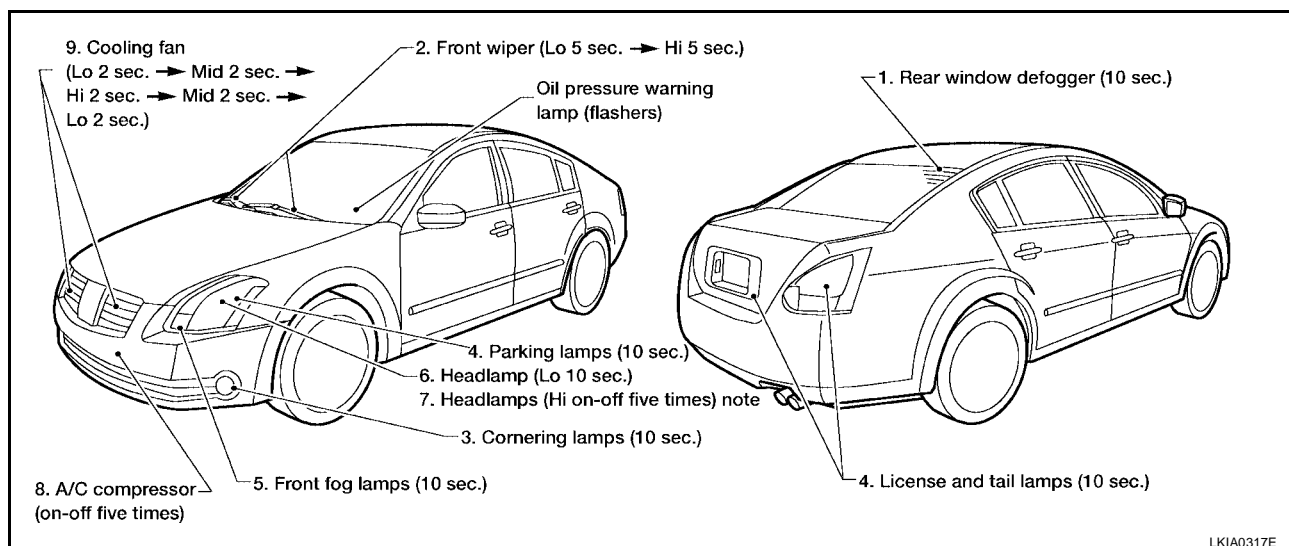
CAUTION:

Be sure to perform [BL-29, "Door Switch Check"](#) when the auto active test cannot be performed.

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

INSPECTION IN AUTO ACTIVE TEST MODE

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



NOTE:

Turns ON-OFF the solenoid to switch Hi/Lo. In this case, the bulb does not illuminate.

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
Any of front wipers, tail and parking lamps, front fog lamps, cornering lamps, and head lamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	YES
		<ul style="list-style-type: none"> ● BCM signal input system
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	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
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	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
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	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)

Symptom	Inspection contents		Possible cause
Oil pressure warning lamp does not operate.	Perform auto active test. Does oil pressure warning lamp blink?	YES	<ul style="list-style-type: none"> ● Harness/connector malfunction between IPDM E/R and oil pressure switch ● Oil pressure switch malfunction
		NO	<ul style="list-style-type: none"> ● CAN communication signal between BCM and Unified Meter and A/C Amp ● Combination meter

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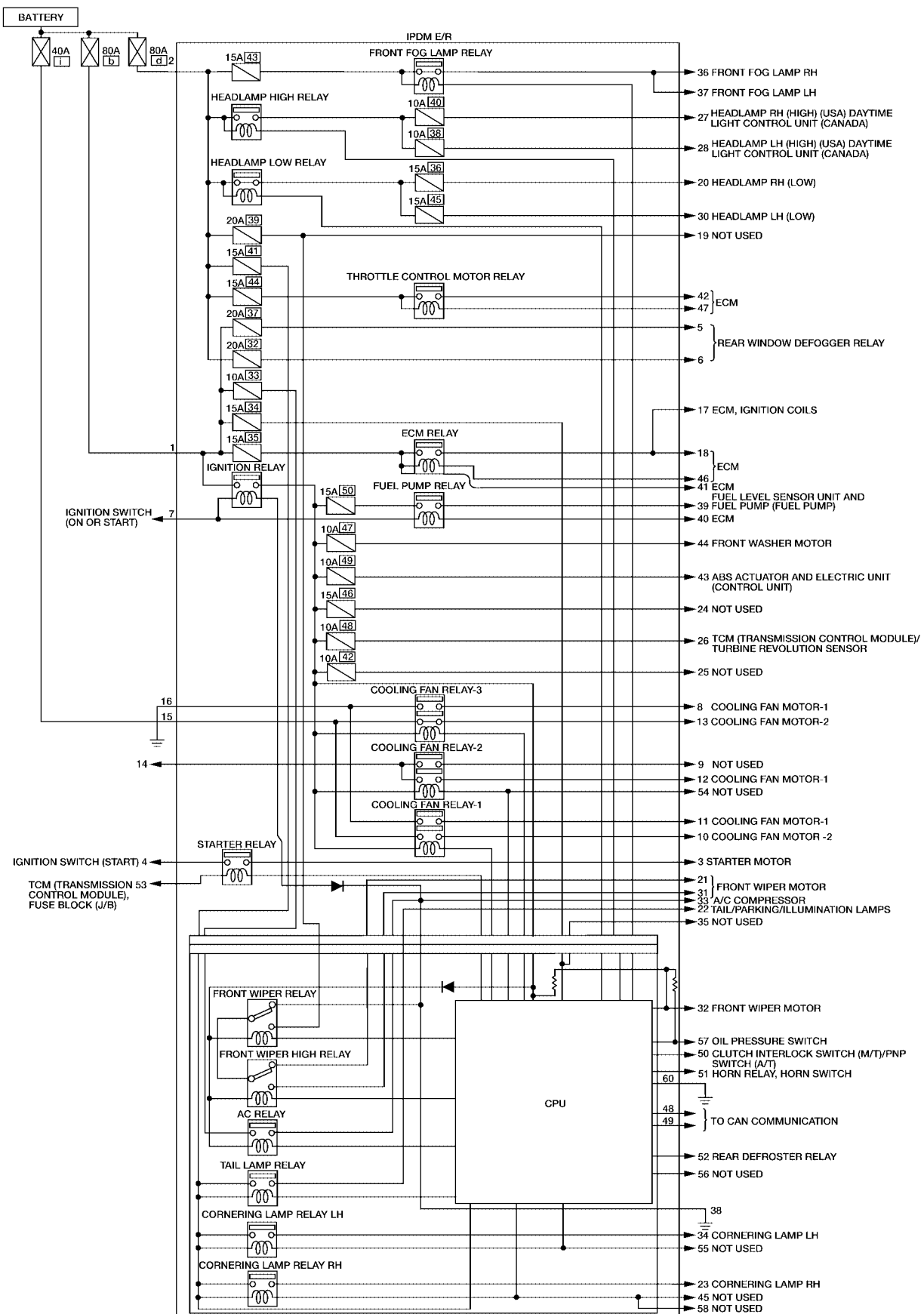
L

M

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

Schematic

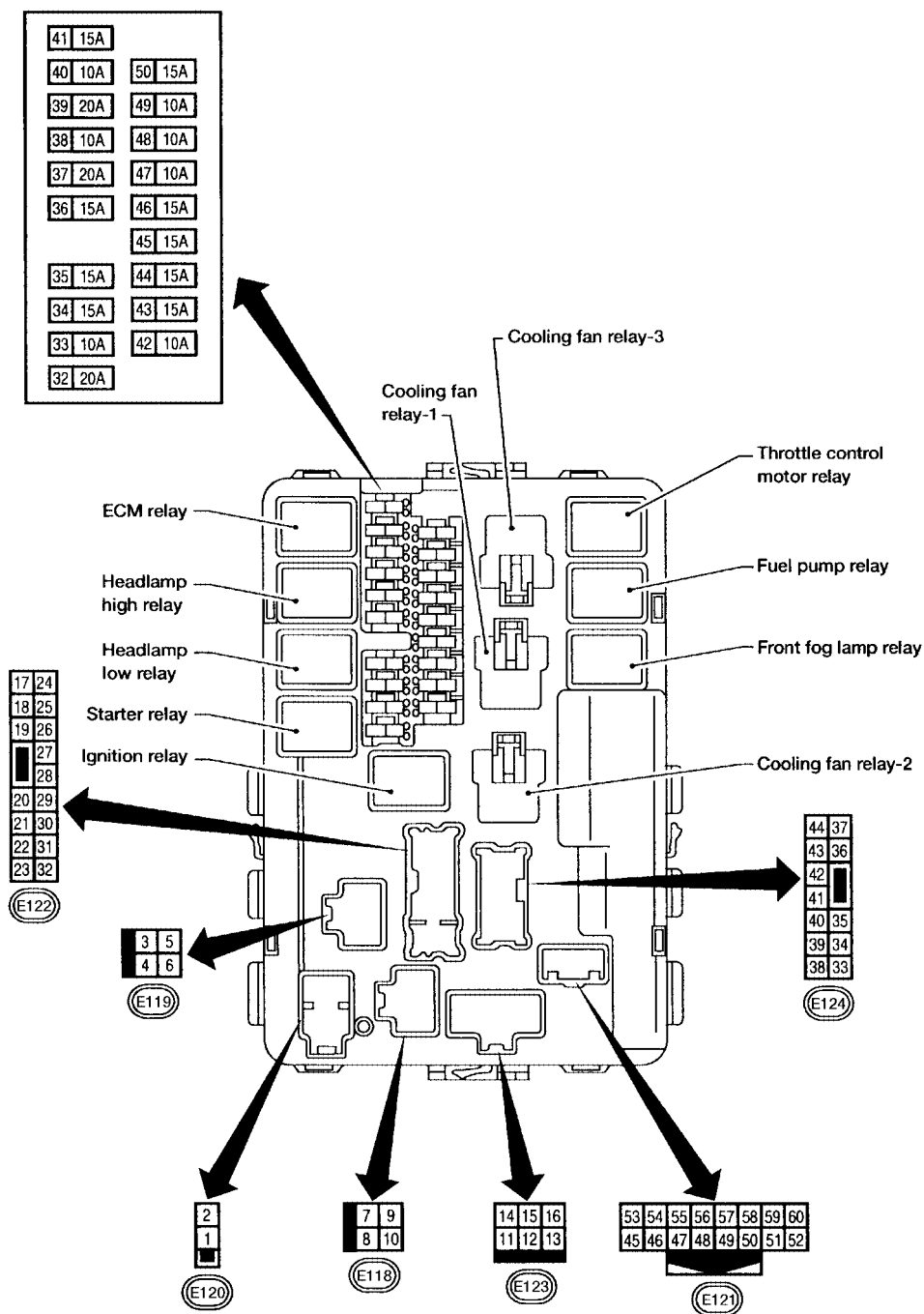
EKS005GY



WKWA0932E

IPDM E/R Terminal Arrangement

EKS005GZ



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

EKS005H0

IPDM E/R Power/Ground Circuit Inspection

1. FUSE AND FUSIBLE LINK INSPECTION

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

Terminal No.	Signal name	Fuse, fusible link No.
1, 2, 15	Battery power	a, b, d, e, l

OK or NG?

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

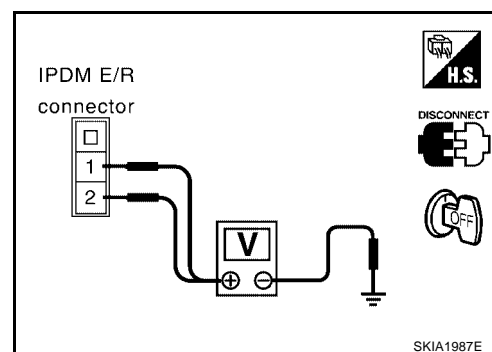
- Disconnect IPDM E/R harness connector E120.
- Check voltage between IPDM E/R harness connector E120 terminals 1 (R), 2 (B/Y) and ground.

Battery voltage should exist

OK or NG

OK >> GO TO 3.

NG >> Replace IPDM E/R power circuit harness.



3. GROUND CIRCUIT INSPECTION

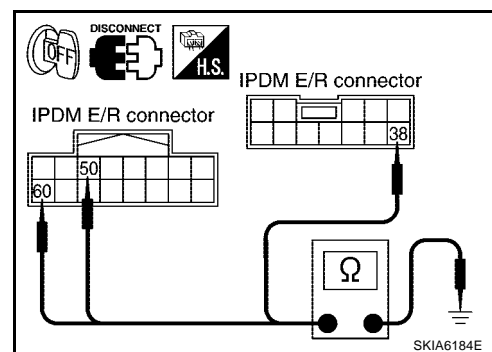
- Disconnect IPDM E/R harness connectors E121 and E124.
- Check continuity between IPDM E/R harness connector E121 terminal 50 (B) (A/T model only), E121 terminal 60 (B), E124 terminal 38 (B), E123 terminal 16 (B) and ground.

Continuity should exist

OK or NG

OK >> Inspection end.

NG >> Replace ground circuit harness of IPDM E/R.



Inspection with CONSULT-II (Self-Diagnosis)

EKS005H9

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"> ● CAN CIRC 1 ● CAN CIRC 2 ● CAN CIRC 3

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 Go TO 2.

2. SYMPTOM CHECK

1. Select "CAN DIAG SUPPORT MNTR" on the DATA MONITOR.
2. Select "START" and check display contents..

Diagnosis item	Data monitor display contents	
	Normal	Error (example)
CAN CIRC 1	OK	UNKWN
CAN CIRC 2	OK	UNKWN
CAN CIRC 3	OK	UNKWN
CAN 1 STAT	0	1 - 40
CAN 2 STAT	0	1 - 40
CAN 3 STAT	0	1 - 40

NOTE:

CAN status indicates the condition of the CAN communication judged by each signal input.

- Normal: If no problems were found in the past, CAN status indicates "0". If the system is presently operating properly, but had a malfunction in the past, the CAN status will indicate "39-1".
- Malfunction: If there is a malfunction, CAN indicates "40".

After the system returns to its normal operating condition, every time the ignition switch is cycled (turned OFF from ON), a value will be removed from the counter (i.e. "39"→"38"→"37"... "1"). If a malfunction is detected again, CAN status indicates "40". (Although the system has returned to normal operating condition, "0" is not immediately indicated. To reset, select and press "ERASE" on the "SELF-DIAGNOSIS" screen.)

>> After print-out of the monitored items, refer to [LAN-6, "Precautions for CAN System"](#) .

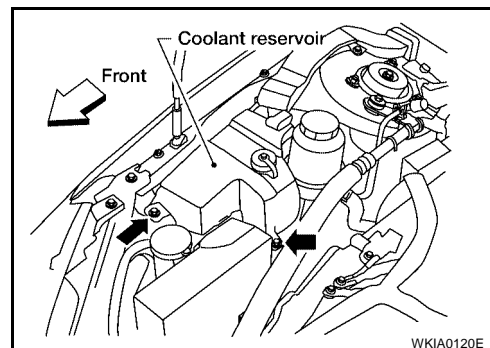
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

EKS005H1

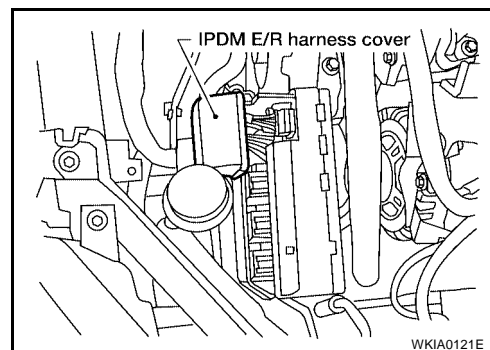
Removal and Installation of IPDM E/R

REMOVAL

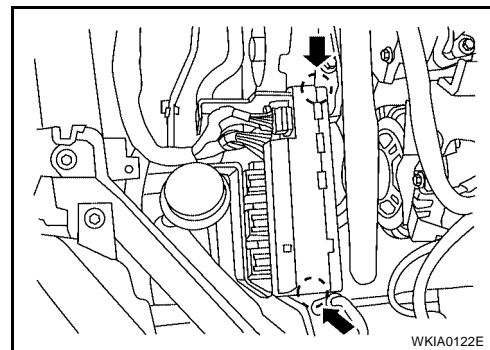
1. Disconnect negative battery cable.
2. Remove engine side cover RH.
3. Remove 2 bolts and position coolant reservoir aside.
4. Remove IPDM E/R upper cover.



5. Remove IPDM E/R harness cover.



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



INSTALLATION

Install in the reverse order of removal.

GROUND CIRCUIT

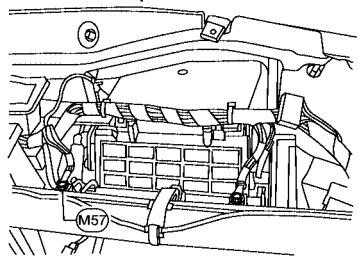
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EKS003XA

GROUND CIRCUIT

Ground Distribution MAIN HARNESS

View with instrument panel removed



Body ground

A

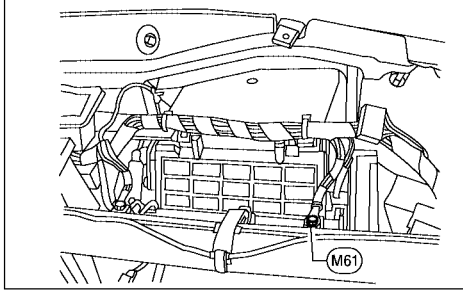
Next page

CONNECTOR NUMBER	CONNECT TO
(M3)	Fuse box (J/B) (Terminal No. 7N)
(M6)	VDC OFF switch
(M7)	Driver mirror control switch
(M16)	ADP steering switch
(M19)	BCM (Body control module) (Terminal No. 49)
(M19)	BCM (Body control module) (Terminal No. 52)
(M21)	NATS antenna amplifier
(M22)	Data link connector (Terminal No. 4)
(M22)	Data link connector (Terminal No. 5)
(M24)	Combination meter (Terminal No. 10)
(M24)	Combination meter (Terminal No. 11)
(M24)	Combination meter (Terminal No. 12)
(M28)	Combination switch
(M34)	A/T device (Terminal No. 2) (Overdrive control switch) (with 4-speed A/T) (early production)
(M35)	Air bag diagnosis sensor unit
(M38)	Heated steering combination switch
(M47)	Steering angle sensor
(M56)	Cigarette lighter socket
(M93)	Display unit
(M108)	Heated steering wheel switch
(M181)	Front heated seat switch LH
(M182)	Front heated seat switch RH
(R3)	Vanity mirror lamp LH
(R4)	Sunroof motor assembly
(R7)	Auto anti-dazzling inside mirror
(R8)	Vanity mirror lamp RH
(R13)	Personal lamp
(R14)	Room/map lamps
(D4)	Door mirror LH
(D5)	Seat memory switch
(D6)	Trunk lid opener switch
(D8)	Main power window and door lock/unlock switch (Terminal No. 17)
(D51)	Front door key cylinder switch LH

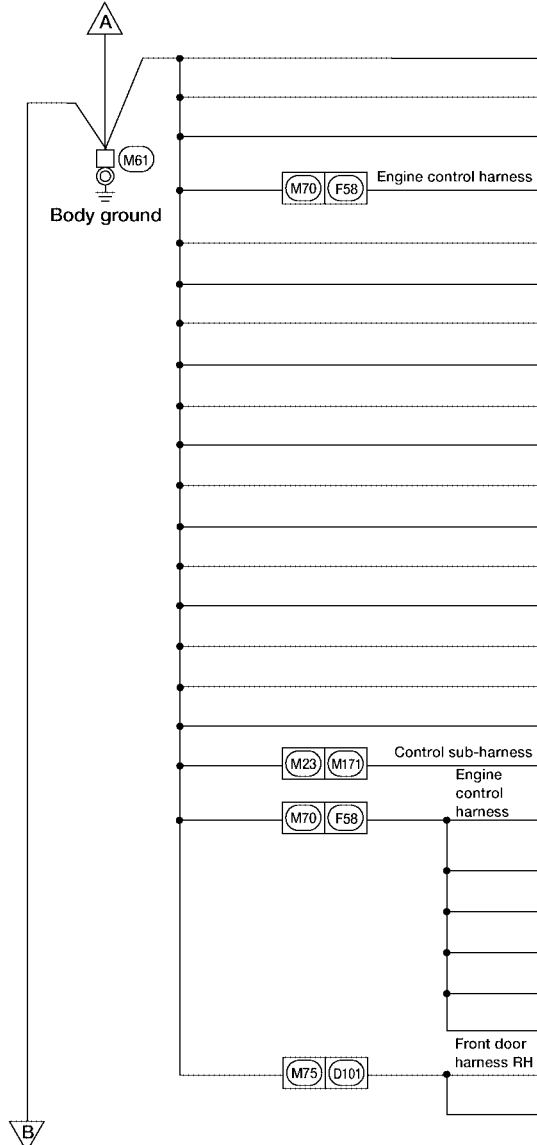
WKIA1551E

GROUND CIRCUIT

View with instrument panel removed

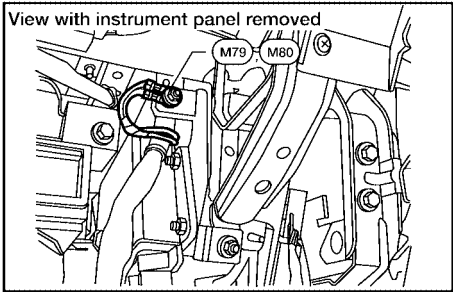


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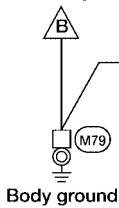


CONNECTOR NUMBER	CONNECT TO
(M5)	Illumination control switch
(M6)	TCS ON/OFF switch
(M31)	Shift lock control unit (Terminal No. 8)
(M34)	A/T device (Terminal No. 11) (Overdrive control switch) (With 5-speed A/T)
(M37)	Rear sunshade front switch
(M39)	Air mix door motor driver
(M40)	Mode door motor
(M42)	Automatic drive positioner control unit
(M50)	A/C auto amp. (With auto A/C) (Terminal No. 29)
(M50)	A/C auto amp. (With auto A/C) (Terminal No. 30)
(M55)	Hazard switch
(M58)	Intake door motor
(M59)	Glove box lamp
(M64)	Fan control amp.
(M87)	Air mix door motor passenger
(M94)	Display control unit
(M98)	AV switch
(M172)	Front power socket
(F29)	Park/neutral position (PNP) switch (Terminal No. 6) (with A/T)
(F37)	Turbine revolution sensor (shield wire)
(F38)	Revolution sensor (shield wire)
(F56)	TCM (Terminal No. 25)
(F57)	TCM (Terminal No. 14)
(F57)	TCM (Terminal No. 48)
(D105)	Front power window switch RH (Terminal No. 11)
(D107)	Door mirror RH

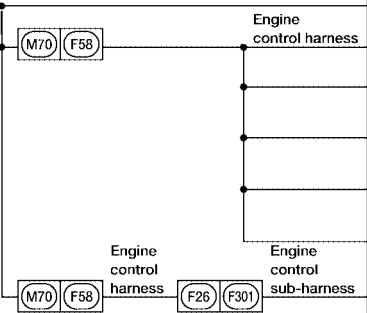
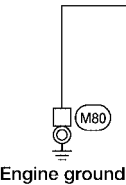
GROUND CIRCUIT



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CONNECTOR NUMBER	CONNECT TO
M34	A/T Device (Terminal No. 2) (Overdrive control switch) (With 4-speed A/T) (Late production)
M82	ECM (Terminal No. 116)

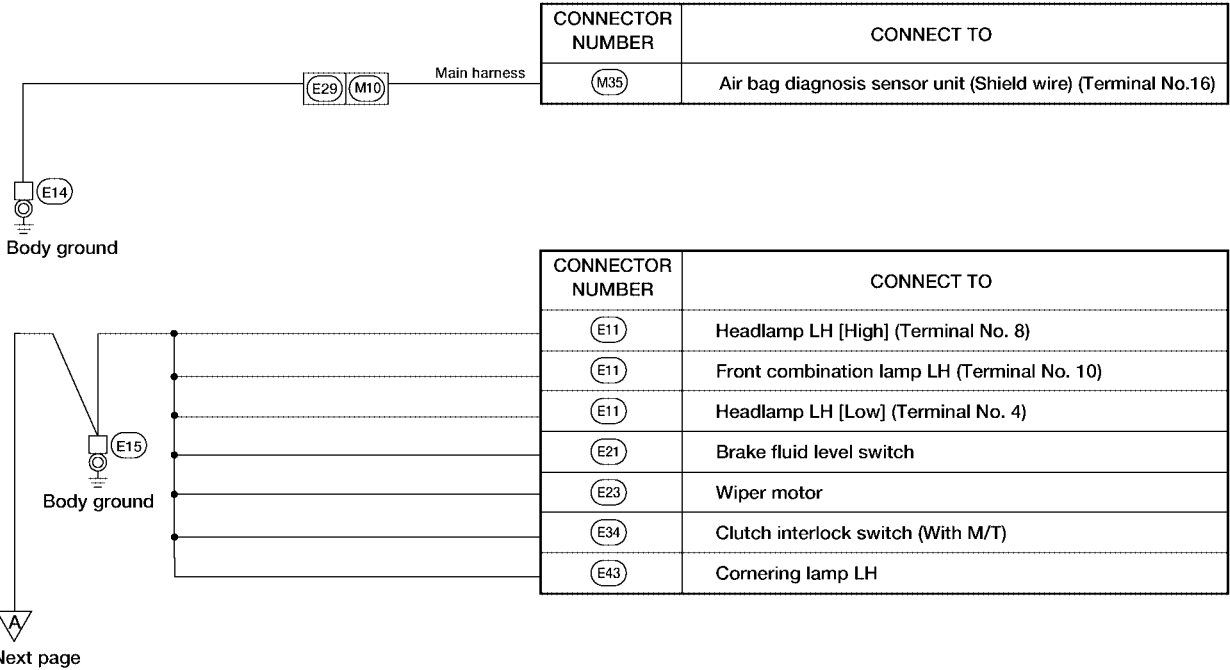
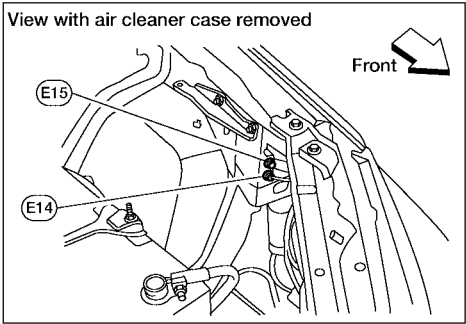


CONNECTOR NUMBER	CONNECT TO
M82	ECM (Terminal No. 115)
F11	Crankshaft position sensor (POS)
F23	Camshaft position sensor (PHASE) (BANK 2)
F42	Park/neutral position (PNP) switch (Terminal No. 2) (With M/T)
F48	Camshaft position sensor (PHASE) (BANK 1)
F50	Electric throttle control actuator (Throttle position sensor, throttle motor) (Shield wire)
F302	Knock sensor (Shield wire)

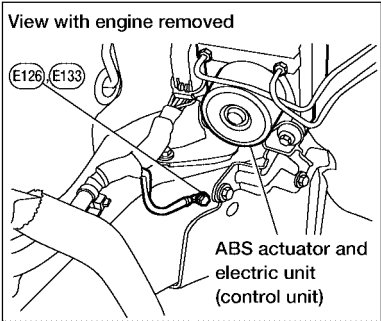
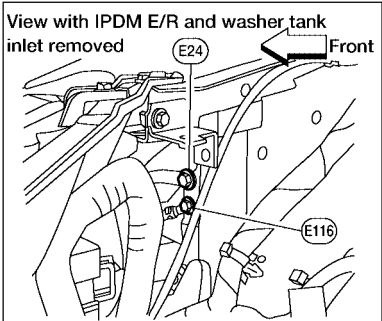
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GROUND CIRCUIT

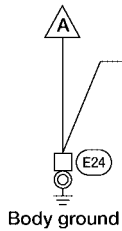
ENGINE ROOM HARNESS



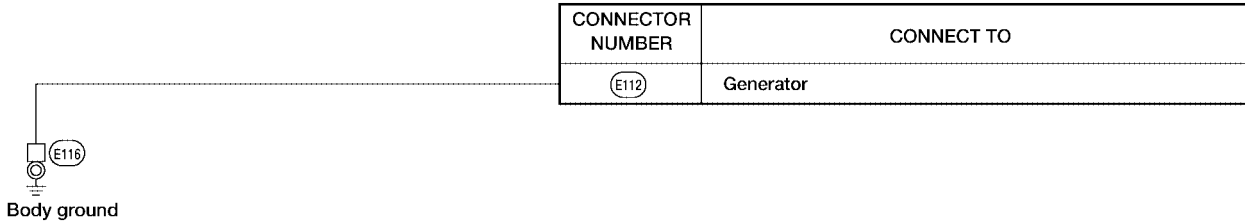
GROUND CIRCUIT



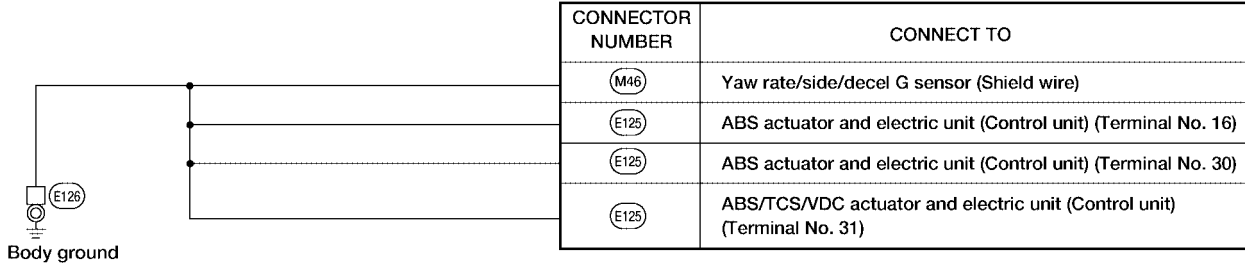
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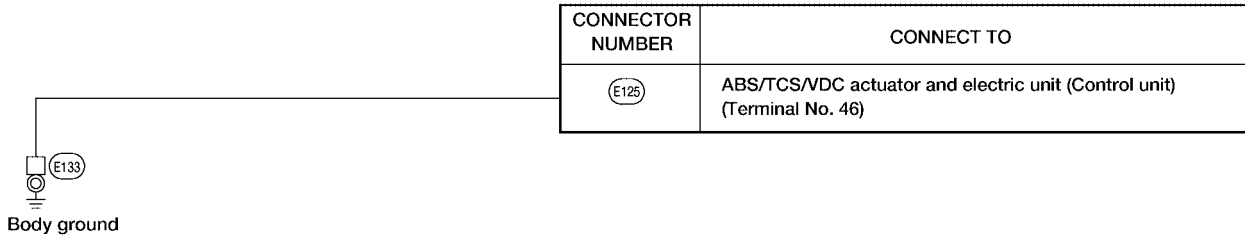
CONNECTOR NUMBER	CONNECT TO
E106	Washer level switch
E107	Headlamp RH [Low] (Terminal No. 4)
E107	Front combination lamp RH (Terminal No. 10)
E107	Headlamp RH [High] (Terminal No. 8)
E113	Cooling fan motor 1
E114	Cooling fan motor 2
E121	IPDM E/R (Terminal No. 50)
E121	IPDM E/R (Terminal No. 60)
E123	IPDM E/R [Cooling fan relay-1 and 3] (Terminal No. 16)
E124	IPDM E/R [IGN relay, A/C relay] (Terminal No. 38)
E137	Cornering lamp RH



CONNECTOR NUMBER	CONNECT TO
E112	Generator



CONNECTOR NUMBER	CONNECT TO
M46	Yaw rate/side/decel G sensor (Shield wire)
E125	ABS actuator and electric unit (Control unit) (Terminal No. 16)
E125	ABS actuator and electric unit (Control unit) (Terminal No. 30)
E125	ABS/TCS/VDC actuator and electric unit (Control unit) (Terminal No. 31)

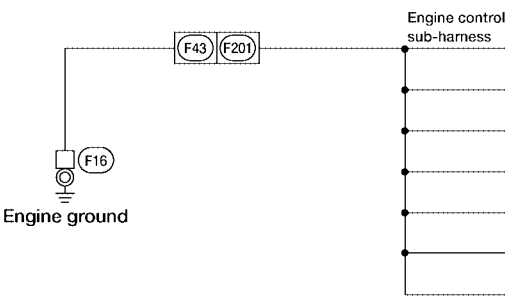
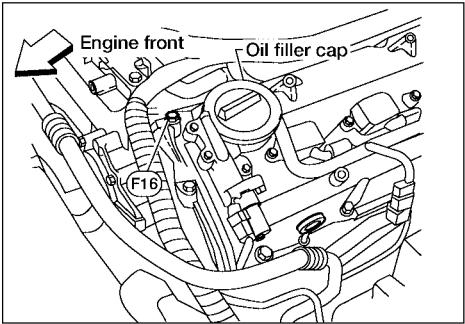


CONNECTOR NUMBER	CONNECT TO
E125	ABS/TCS/VDC actuator and electric unit (Control unit) (Terminal No. 46)

WKIA0492E

GROUND CIRCUIT

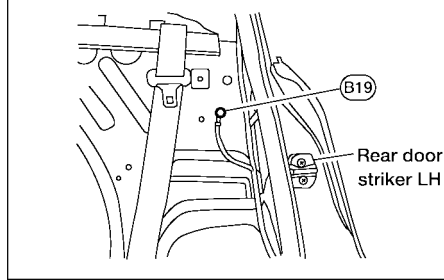
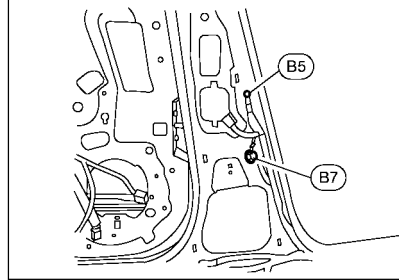
ENGINE CONTROL HARNESS



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-2
F202	Ignition coil No. 1 (With power transistor)
F203	Ignition coil No. 3 (With power transistor)
F204	Ignition coil No. 5 (With power transistor)

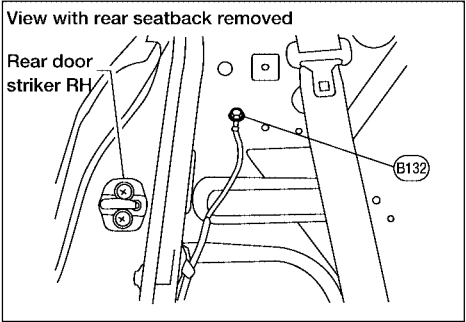
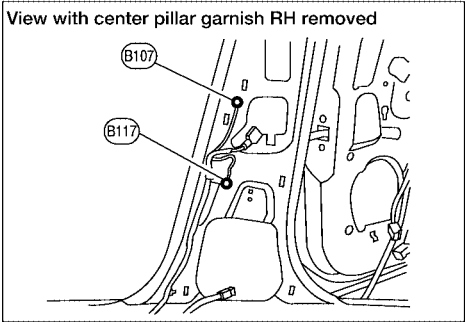
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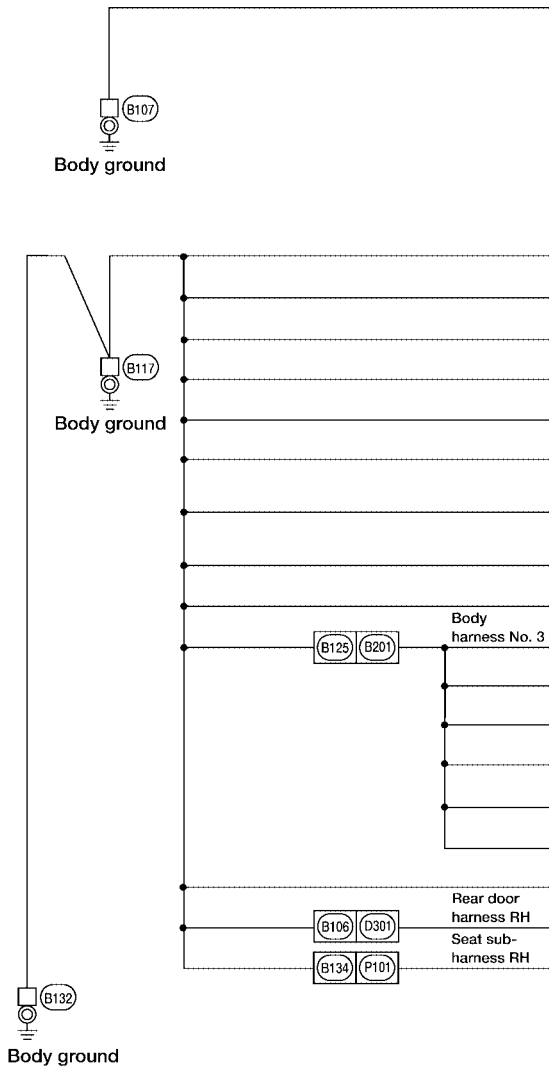


GROUND CIRCUIT

BODY NO. 2 HARNESS

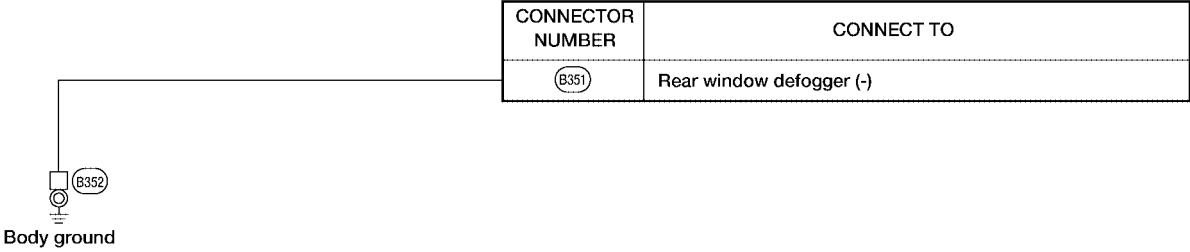
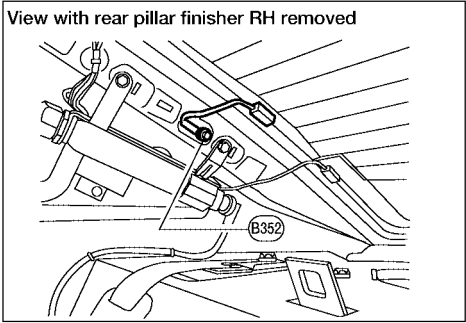


CONNECTOR NUMBER	CONNECT TO
B113	Air bag diagnosis sensor unit (Shield wire) (Terminal No. 40) (With side air bags)



CONNECTOR NUMBER	CONNECT TO
B105	Rear power socket relay
B109	Heated seat relay
B110	Seat belt buckle switch RH
B111	Heated seat RH
B126	Subwoofer RH
B127	Bose speaker amplifier
B129	High mounted stop lamp (Without rear air spoiler, with Bose audio)
B130	Rear sunshade unit
B133	Subwoofer amp
B202	Rear power socket
B203	Rear heated seat switch LH
B204	Rear heated seat switch RH
B205	Rear heated seat LH
B206	Rear heated seat RH
B208	Rear console lamp (late production)
B207	Rear sunshade rear switch
D303	Rear power window switch RH
P102	Power seat switch RH

GROUND CIRCUIT



WKIA0497E

HARNESS

HARNESS

PFP:24010

Harness Layout

EKS003XB

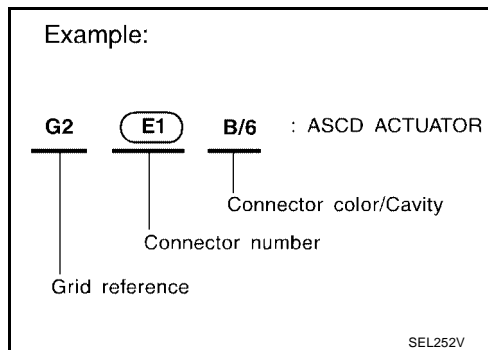
HOW TO READ HARNESS LAYOUT

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
- Body Harness and Tail Harness
- Body No. 2 Harness and Body No. 3 Harness














To use the grid reference

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



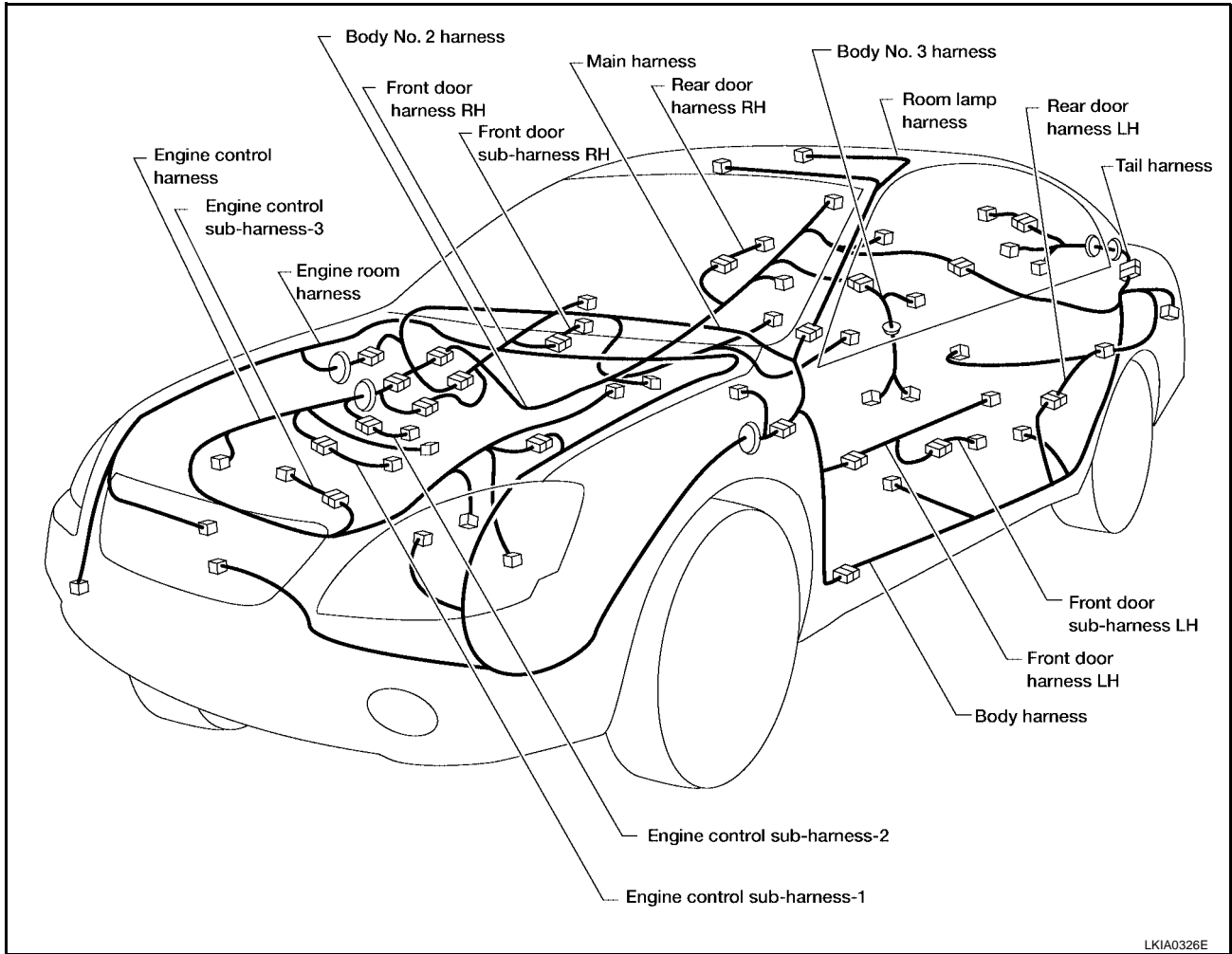
CONNECTOR SYMBOL

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

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

HARNESS

OUTLINE



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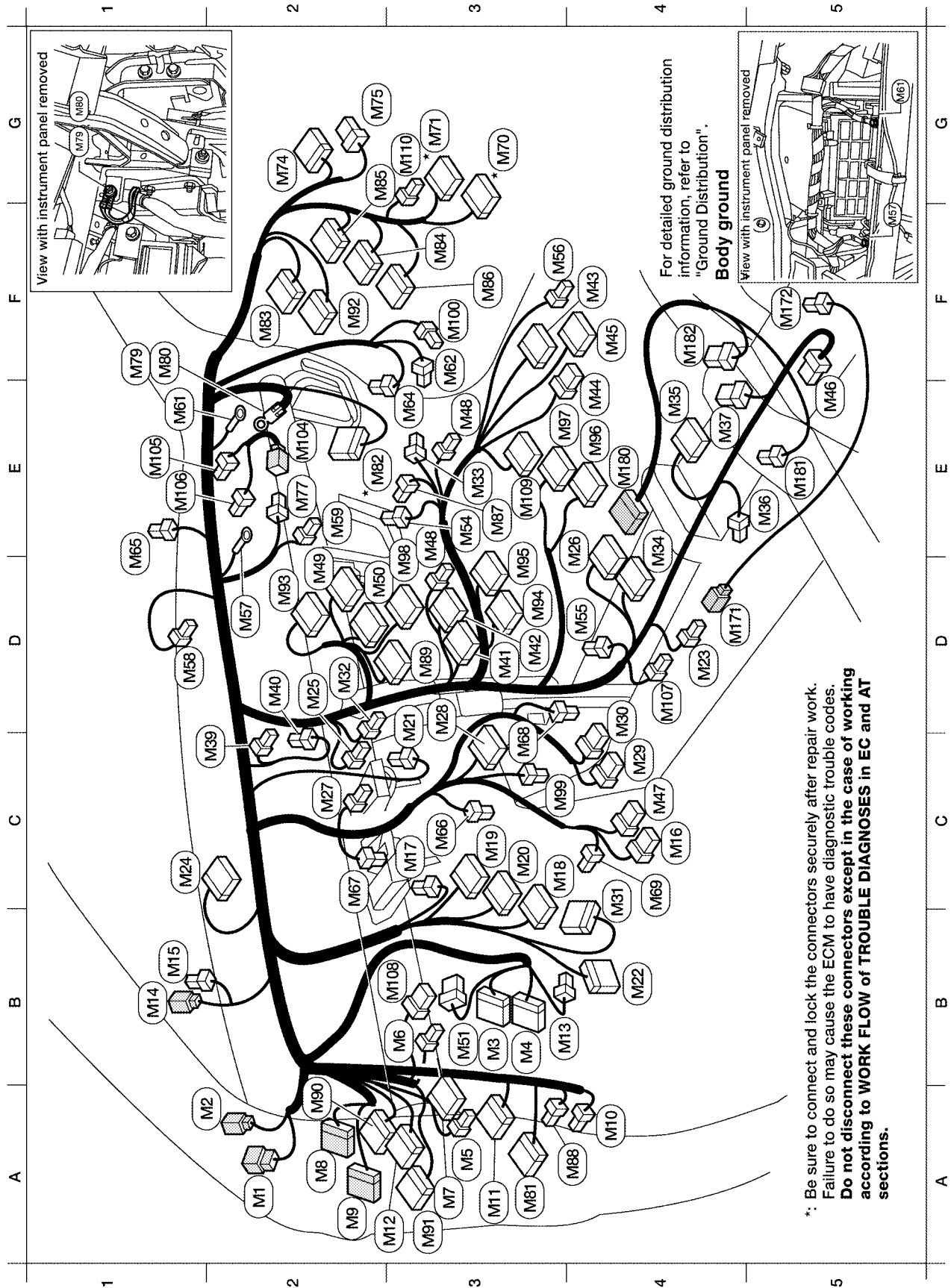
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HARNESS

MAIN HARNESS



WKIA1554E

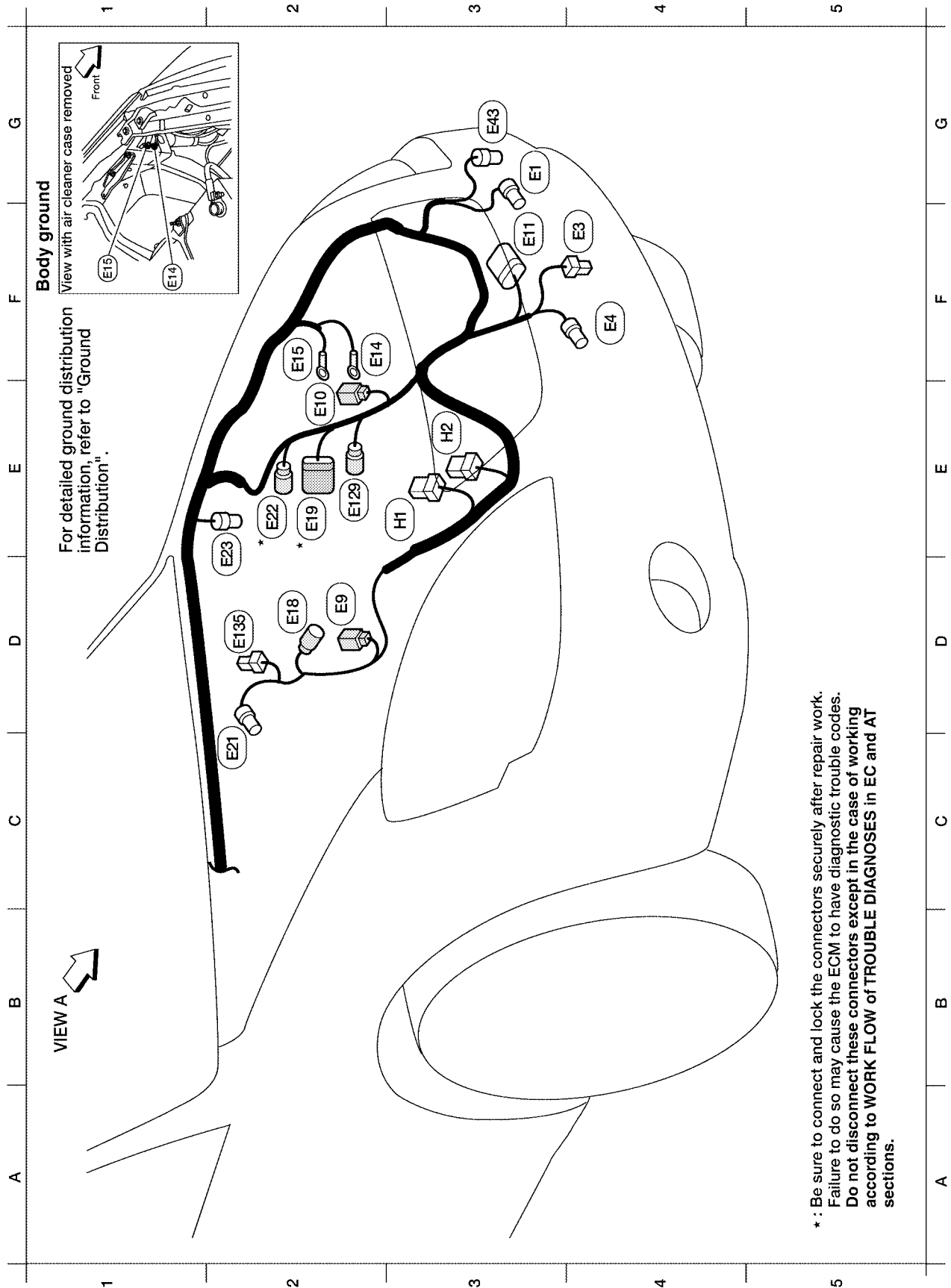
A2	(M1)	W/8	: To (R1)	E4	(M35)	Y/28	: Air bag diagnosis sensor unit	F1	(M79)	: Body ground 1-3
A1	(M2)	W/3	: To (R2)	E5	(M36)	B/1	: Parking brake switch	F1	(M80)	: Body ground
B3	(M3)	W/8	: Fuse block (J/B)	E4	(M37)	W/6	: Rear sunshade front switch	A3	(M81)	GR/20 : To (B20)
B3	(M4)	W/16	: Fuse block (J/B)	C2	(M39)	W/3	: Air mix door motor (driver)	E2	(M82)	B/40 : ECM
A3	(M5)	W/3	: Illumination control switch	D2	(M40)	W/3	: Mode door motor	F2	(M83)	W/20 : To (E134)
B3	(M6)	GR/6	: TCS on/off switch (with TCS) or VDC OFF switch (with VDC)	D3	(M41)	W/32	: Automatic drive pos control unit	F3	(M84)	W/18 : To (B101)
A3	(M7)	W/10	: Door mirror remote control switch	D3	(M42)	W/16	: Automatic drive pos control unit	G2	(M85)	GR/24 : To (B102)
A2	(M8)	W/24	: To (D2)	F4	(M43)	W/10	: Audio unit	F3	(M86)	W/16 : To (B103)
A2	(M9)	W/12	: To (D1)	F4	(M44)	W/6	: Audio unit	E3	(M87)	W/3 : Air mix door motor (passenger)
A4	(M10)	Y/4	: To (E29)	F4	(M45)	W/16	: Audio unit	A4	(M88)	B/2 : To (E42)
A3	(M11)	W/16	: To (B1)	E5	(M46)	B/6	: Yaw rate/side/decel G sensor	D3	(M89)	W/24 : Unified meter and A/C amplifier
A3	(M12)	W/12	: To (B2)	C4	(M47)	W/8	: Steering angle sensor	A2	(M90)	W/16 : To (E25)
B3	(M13)	L/4	: Heated steering relay	E3	(M48)	W/2	: Antenna amplifier	A3	(M91)	W/12 : To (E26)
B1	(M14)	BR/2	: Security indicator lamp	D2	(M49)	GR/20	: Unified meter and A/C amplifier	F2	(M92)	W/10 : To (E131)
B1	(M15)	W/3	: Optical sensor	D2	(M50)	GR/16	: Unified meter and A/C amplifier	D2	(M93)	W/24 : Display unit
C4	(M16)	GR/6	: ADP steering switch	B3	(M51)	BR/6	: Relay	D3	(M94)	W/24 : Display control unit (with NAVI)
C3	(M17)	W/2	: Circuit breaker	E3	(M54)	W/2	: Trunk lid opener cancel switch	D3	(M95)	W/32 : Display control unit (with NAVI)
C3	(M18)	W/40	: BCM (body control module)	D4	(M55)	W/4	: Hazard switch	E4	(M96)	W/24 : NAVI control unit (with NAVI)
C3	(M19)	B/15	: BCM (body control module)	F3	(M56)	B/2	: Cigarette lighter	E3	(M97)	GR/24 : NAVI control unit (with NAVI)
C3	(M20)	W/15	: BCM (body control module)	D2	(M57)		: Body ground	D3	(M98)	W/16 : AV switch
D3	(M21)	W/4	: NATS antenna amplifier	D1	(M58)	W/3	: Intake door motor	C3	(M99)	W/2 : Foot lamp LH
B4	(M22)	W/16	: Data link connector	E2	(M59)	BR/2	: Glove box lamp	F3	(M100)	W/2 : Foot lamp RH
D4	(M23)	W/2	: To (M17)	E1	(M61)		: Body ground 1-2	E2	(M104)	Y/4 : To (M77)
C1	(M24)	W/24	: Combination meter	F3	(M62)	W/2	: Blower motor	E1	(M105)	B/2 : Passenger air bag module
D2	(M25)	W/2	: Ignition keyhole illumination	E3	(M63)	W/4	: Fan control amplifier	E1	(M106)	O/2 : Passenger air bag module
E4	(M26)	BR/16	: To (M180)	E1	(M65)	B/2	: Sunload sensor	D4	(M107)	BR/2 : A/T device (illumination) (with A/T)
C2	(M27)	W/4	: Key switch and key lock solenoid	C3	(M66)	W/2	: Telescopic motor	B3	(M108)	W/6 : Heated steering wheel switch
D3	(M28)	W/16	: Combination switch	C2	(M67)	W/3	: Telescopic motor	E3	(M109)	W/12 : Audio unit
C4	(M29)	Y/6	: Spiral cable	D3	(M68)	W/2	: Tilt motor	F3	(M110)	W/2 : To (B136)
D4	(M30)	GR/8	: Combination switch (spiral cable)	C4	(M69)	W/3	: Tilt motor	D4	(M171)	W/2 : To (M23)
C4	(M31)	GR/10	: Shift lock control unit (with A/T)	G3	(M70)	W/16	: To (F8)	F5	(M172)	B/2 : Front power socket
D2	(M32)	W/2	: In-vehicle sensor	G3	(M71)	W/24	: To (F9)	E4	(M180)	BR/16 : To (M26)
E3	(M33)	W/2	: Intake sensor	G2	(M74)	W/16	: To (D102)	E5	(M181)	BR/6 : Front heated seat switch LH
D4	(M34)	W/16	: A/T device	G2	(M75)	W/8	: To (D10)	F4	(M182)	W/6 : Front heated seat switch RH
				E2	(M77)	Y/4	: To M104 (to front passenger air bag)			* : Refer to previous page

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

HARNESS

ENGINE ROOM HARNESS (LH VIEW)

Engine Compartment



WKIA0500E

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

G3	(E1)	B/2	: Ambient sensor
F4	(E3)	B/1	: Horn (low)
F4	(E4)	Y/2	: Crash zone sensor
E3	(H-1)	W/3	: Horn relay (inside fuse and fusible link box)
E3	(H-2)	-	: Daytime light relay (inside fuse and fusible link box)
D2	(E9)	BR/2	: Fusible link box (battery)
E2	(E10)	GR/2	: Fusible link box (battery)
F3	(E11)	GR/12	: Front combination lamp LH
F2	(E14)	-	: Body ground
F2	(E15)	-	: Body ground
D2	(E18)	B/2	: Front wheel sensor LH
E2	★ (E19)	GR/9	: To (F33)
C2	(E21)	GR/2	: Brake fluid level switch
E2	★ (E22)	B/2	: To (F35)
E2	(E23)	GR/6	: Front wiper motor
G3	(E43)	GR/2	: Cornering lamp LH
E2	(E129)	B/2	: To (F45)
D2	(E135)	GR/2	: Dropping resistor (with 4-speed A/T)

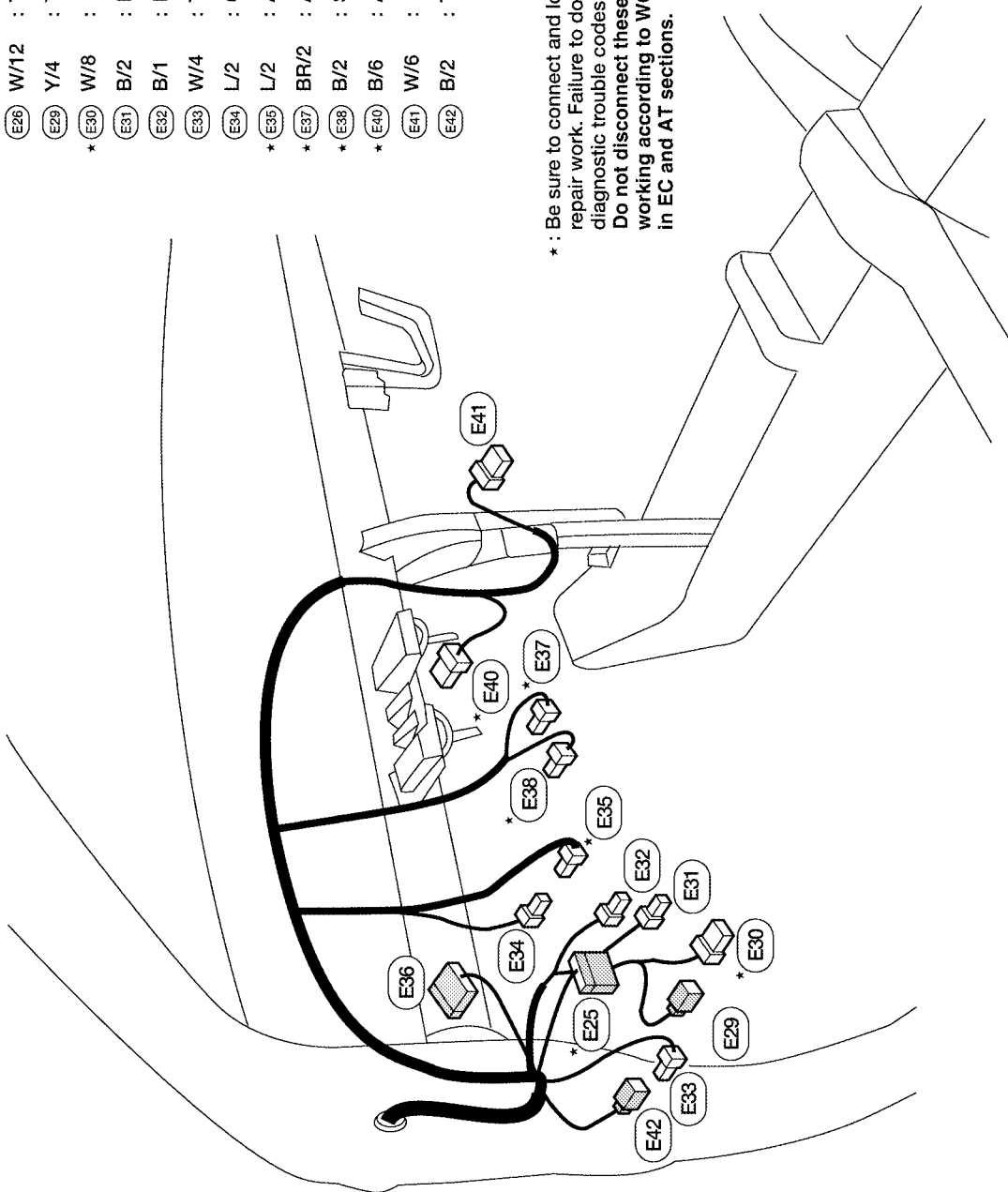
*: Be sure to connect and lock the connectors securely after repair work.
Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

A
B
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PG
L
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Passenger Compartment

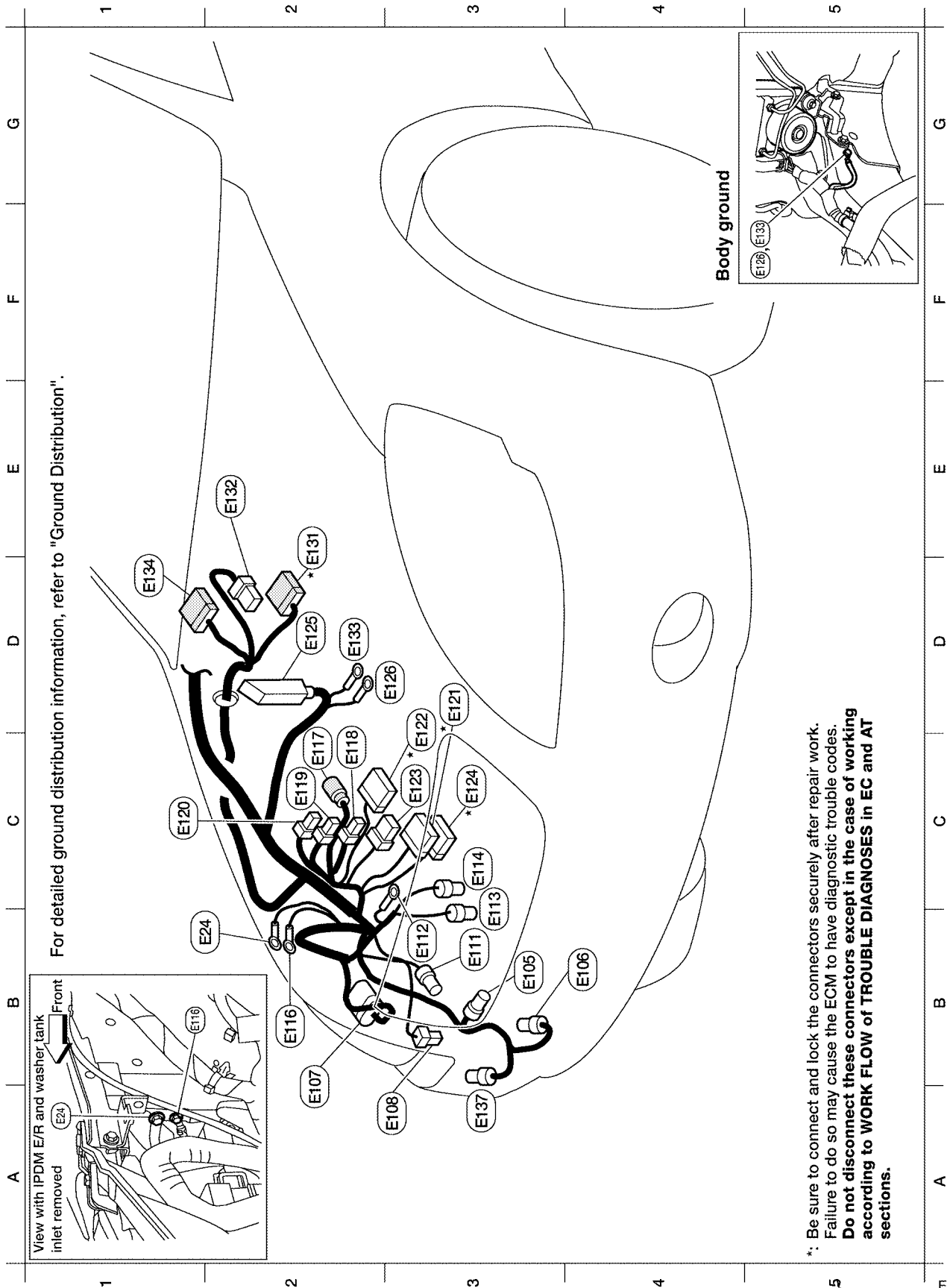
★ E25	W/16	: To	M90
E26	W/12	: To	M91
E29	Y/4	: To	M10
★ E30	W/8	: Fuse block J/B	
E31	B/2	: Fuse block J/B	
E32	B/1	: Fuse block J/B	
E33	W/4	: To	B3
E34	L/2	: Clutch interlock switch (with M/T)	
★ E35	L/2	: ASCD clutch switch (with M/T)	
★ E37	BR/2	: ASCD brake switch	
★ E38	B/2	: Stop lamp switch	
★ E40	B/6	: Accelerator pedal position (APP) sensor	
E41	W/6	: Ignition switch	
E42	B/2	: To	M88

★ : 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

ENGINE ROOM HARNESS (RH VIEW) Engine Compartment

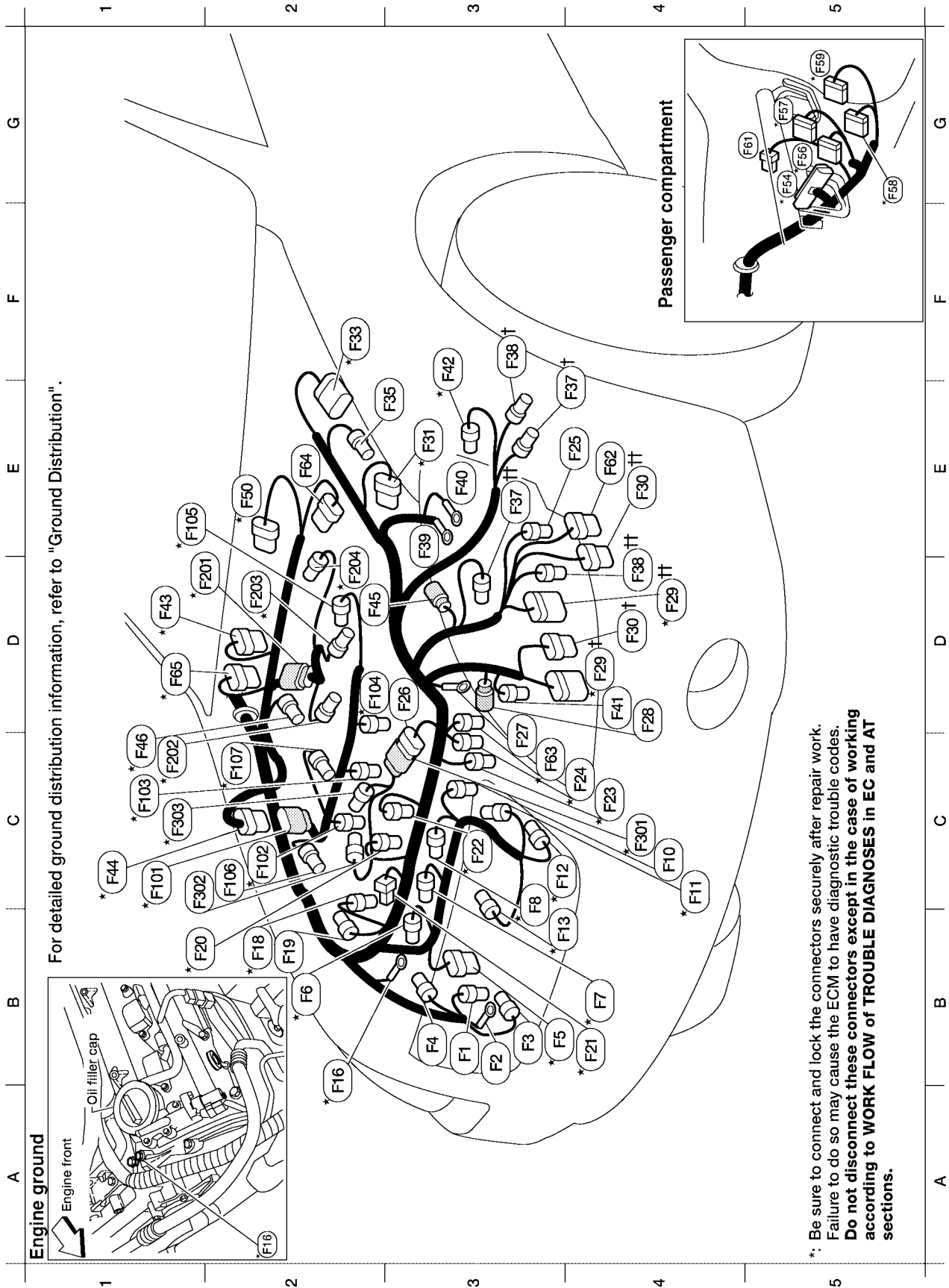


Refer to [PG-40, "ENGINE ROOM HARNESS \(LH VIEW\)"](#) for continuation of engine room harness.

B2	(E24)	-	: Body ground
B3	(E105)	GR/2	: Front washer motor
B4	(E106)	BR/2	: Washer fluid level switch
B2	(E107)	GR/12	: Front combination lamp RH
B3	(E108)	B/1	: Horn (high)
B3	(E111)	B/3	: Refrigerant pressure sensor
B3	(E112)	-	: Generator (ground)
B3	(E113)	GR/4	: Cooling fan motor-1
C3	(E114)	GR/4	: Cooling fan motor-2
B2	(E116)	-	: Body ground
C2	(E117)	GR/2	: Front wheel sensor RH
C2	(E118)	B/4	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C2	(E119)	W/4	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C1	(E120)	B/2	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
D3	★ (E121)	W/12	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
D3	★ (E122)	GY/16	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E123)	W/6	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	★ (E124)	W/12	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
D2	(E125)	GR/30	: ABS actuator and electric unit (control unit) (except with VDC)
D2	(E125)	B/46	: ABS actuator and electric unit (control unit) (with VDC)
D3	(E126)	-	: Body ground
E2	★ (E131)	W/10	: To (N62)
E2	(E132)	W/8	: To (E104)
D2	(E133)	:	Body ground (with VDC)
D1	(E134)	W/20	: To (N63)
A3	(E137)	GR/2	: Cornering lamp 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 DIAGNOSES in EC and AT sections.

ENGINE CONTROL HARNESS



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

B3	(F1)	GR/2	: Generator	D4	(F29)	B/10	: Park/neutral position (PNP) switch (with 4-speed A/T)	G5	(F59)	W/24	: To (M7)
B3	(F2)	-	: Generator	E4	(F30)	BR/8	: Terminal cord assembly (with 5-speed A/T)	G5	(F61)	L/4	: A/T PV IGN Relay (with 5-speed A/T)
B3	(F3)	B/1	: A/C compressor	D4	(F30)	B/8	: Terminal cord assembly (with 4-speed A/T)	E4	(F62)	GR/6	: Terminal cord assembly (with 5-speed A/T)
B3	(F4)	G/2	: Intake valve timing control solenoid valve (Bank 2) (early production)	E3	(F31)	B/6	: Mass air flow sensor	C3	(F63)	GR/2	: EGR temperature sensor
B3	(F4)	GR/2	: Intake valve timing control solenoid valve (Bank 2) (late production)	F2	(F33)	GR/9	: To (E19)	E2	(F64)	GR/6	: EGR volume control valve
B3	(F5)	B/6	: Air /fuel ratio (A/F) sensor (Bank 2)	E3	(F35)	GR/2	: To (E22)	D1	(F65)	B/6	: Air/Fuel ratio (A/F) sensor (Bank 1)
B2	(F6)	GR/3	: Ignition coil No. 2 (with power transistor)	E3	(F37)	L/2	: Turbine revolution sensor (with 5-speed A/T)				
B4	(F7)	GR/3	: Ignition coil No. 4 (with power transistor)	E4	(F37)	B/3	: Turbine revolution sensor (with 4-speed A/T)				
C3	(F8)	GR/3	: Ignition coil No. 6 (with power transistor)	D4	(F38)	L/2	: Revolution sensor (with 5-speed A/T)				
C4	(F10)	BR/3	: Front electronic controlled engine mount	F3	(F38)	B/3	: Revolution sensor (with 4-speed A/T)				
C4	(F11)	B/3	: Crankshaft position sensor	E3	(F39)	-	: Battery (positive)				
C3	(F12)	L/4	: Heated oxygen sensor 2 (Rear) (Bank 2)	E3	(F40)	-	: Fusible link box (battery)				
B3	(F13)	G/4	: Heated oxygen sensor 2 (Rear) (Bank 1)	D4	(F41)	B/2	: Back-up lamp switch (with M/T)				
B2	(F16)	-	: Engine ground	F3	(F42)	B/2	: Park/neutral position (PNP) switch (with M/T)				
B2	(F18)	GR/2	: Injector No. 2	D1	(F43)	GR/6	: To (F20)				
B2	(F19)	B/2	: VIAS control solenoid valve	C1	(F44)	G/8	: To (F10)				
B1	(F20)	GR/2	: Injector No. 4	D2	(F45)	B/2	: To (E79) (with 4-speed A/T)				
B4	(F21)	GR/2	: Condenser 2	C1	(F46)	B/3	: Power steering oil pressure sensor				
C3	(F22)	GR/2	: Injector No. 6	E2	(F50)	G/6	: Electric throttle control actuator (early production)				
C4	(F23)	B/3	: Camshaft position sensor (PHASE) (Bank 2)	E2	(F50)	GR/6	: Electric throttle control actuator (late production)				
C4	(F24)	GR/2	: Engine coolant temperature sensor	G5	(F54)	B/81	: ECM				
E4	(F25)	BR/3	: Rear electronic controlled engine mount (with A/T)	G5	(F56)	GR/20	: TCM (transmission control module) (with 5-speed A/T)				
D3	(F26)	GR/6	: To (F30)	G5	(F56)	W/24	: TCM (transmission control module) (with 4-speed A/T)				
C3	(F27)	-	: Starter motor	G5	(F57)	GR/28	: TCM (transmission control module) (with 5-speed A/T)				
D4	(F28)	GR/1	: Starter motor	G5	(F57)	GR/24	: TCM (transmission control module) (with 4-speed A/T)				
D4	(F29)	GR/10	: Park/neutral position (PNP) switch (with 5-speed A/T)	G5	(F58)	W/16	: To (M70)				

Engine control sub-harness-1

C1	(F101)	G/8	: To (F44)								
C2	(F102)	GR/2	: Injector No. 1								
C1	(F103)	GR/2	: Injector No. 3								
D2	(F104)	GR/2	: Injector No. 5								
E1	(F105)	L/2	: EVAP canister purge volume control solenoid valve								
C2	(F106)	B/1	: Oil pressure switch								
C2	(F107)	G/2	: Intake valve timing control solenoid valve (Bank 1)								

Engine control sub-harness-2

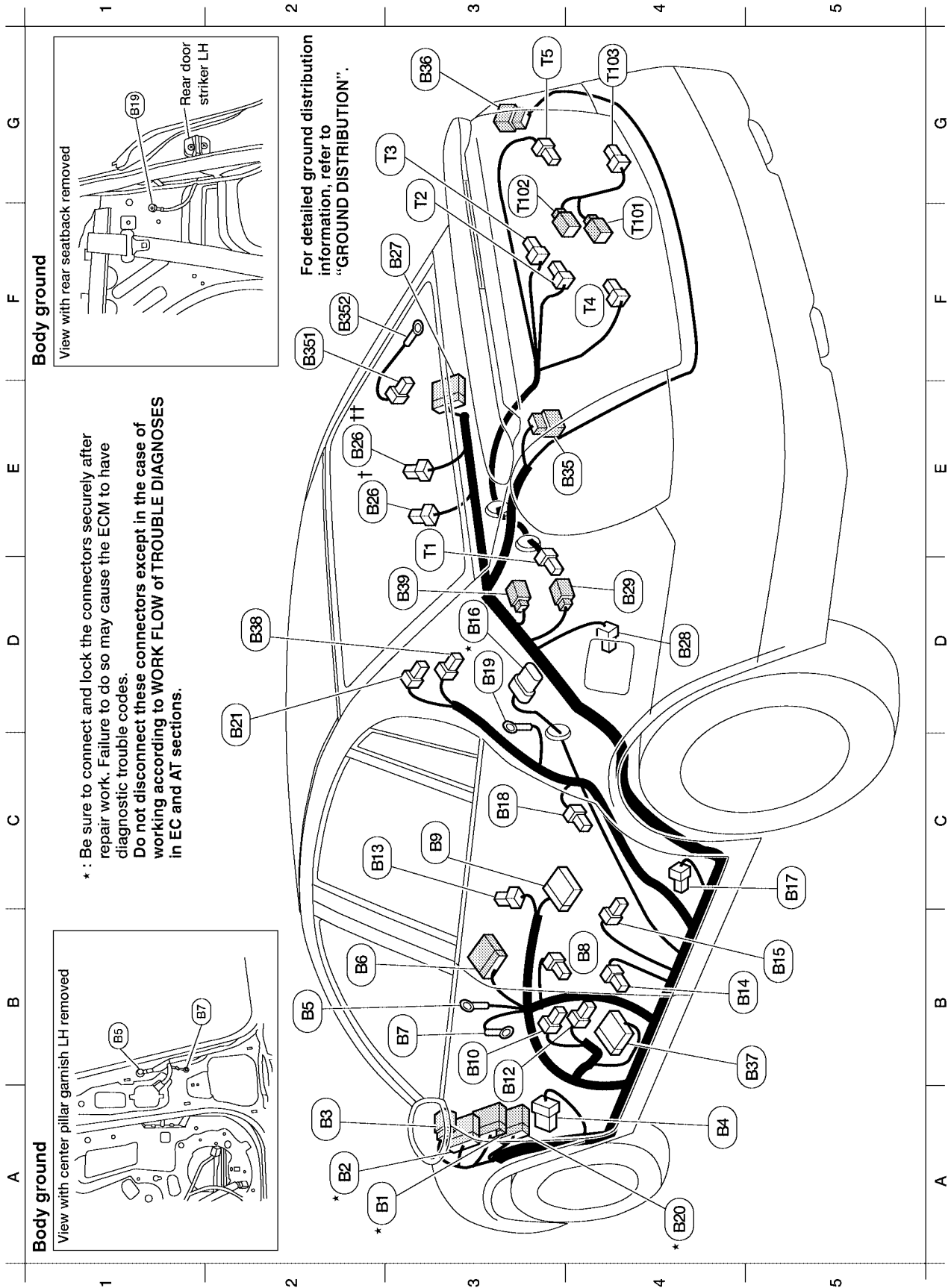
D1	(F201)	G/6	: To (F43)								
C1	(F202)	GR/3	: Ignition coil No. 1 (with power transistor)								
D2	(F203)	GR/3	: Ignition coil No. 3 (with power transistor)								
D2	(F204)	GR/3	: Ignition coil No. 5 (with power transistor)								

Engine control sub-harness-3

C4	(F301)	B/2	: To (F26)								
C1	(F302)	GR/2	: Knock sensor								
C1	(F303)	G/3	: Camshaft position sensor (PHASE) (Bank 1)								

*: 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.**

BODY HARNESS AND TAIL HARNESS



WKIA0507E

Body harness

A2 ★ (B1)	W/16	: To (M11)
A2 ★ (B2)	W/12	: To (M12)
A2 (B3)	W/4	: To (E33)
A4 (B4)	BR/6	: Rear window defogger relay
A3 (B5)	-	: Body ground
B3 (B6)	W/12	: To (B20)
B3 (B7)	-	: Body ground
B4 (B8)	W/3	: Front door switch LH
C3 (B9)	Y/12	: Air bag diagnosis sensor unit
B3 (B10)	Y/2	: Front LH side air bag module
B5 (B12)	W/3	: Seat belt buckle switch LH
C3 (B13)	W/3	: Front seat heater LH
B5 (B14)	Y/2	: Front LH seat belt pre-tensioner
B5 (B15)	Y/2	: LH side air bag (satellite) sensor
D4 ★ (B16)	GR/5	: Fuel level sensor unit and fuel pump
B5 (B17)	W/2	: Condenser-1
C3 (B18)	W/1	: Rear door switch LH

D3 (B19)	-	: Body ground
A4 ★ (B20)	GR/20	: To (M61)
C2 (B21)	W/1	: Rear window defogger condenser
E2 (B26)	† W/2	: Subwoofer LH (without BOSE audio system)
E2 (B26)	†† W/6	: Subwoofer LH (with BOSE audio system)
F2 (B27)	W/12	: To (B13)
F3 (B28)	W/4	: Fuel lid opener actuator
F5 (B29)	W/4	: To (T1)
E4 (B35)	W/6	: Rear combination lamp LH
G3 (B36)	W/6	: Rear combination lamp RH
E2 (B37)	W/18	: To (P1)
D2 (B38)	Y/2	: LH side curtain air bag module
E4 (B39)	W/2	: Diode - 5

Tail harness

D3 (T1)	W/4	: To (B29)
F3 (T2)	B/2	: To (T101)
G2 (T3)	W/2	: To (T102)
F4 (T4)	B/2	: License lamp LH
G3 (T5)	B/2	: License lamp RH
F4 (T101)	B/2	: To (T2)
F3 (T102)	W/2	: To (T3)
G4 (T103)	W/4	: Trunk lamp switch and trunk release solenoid

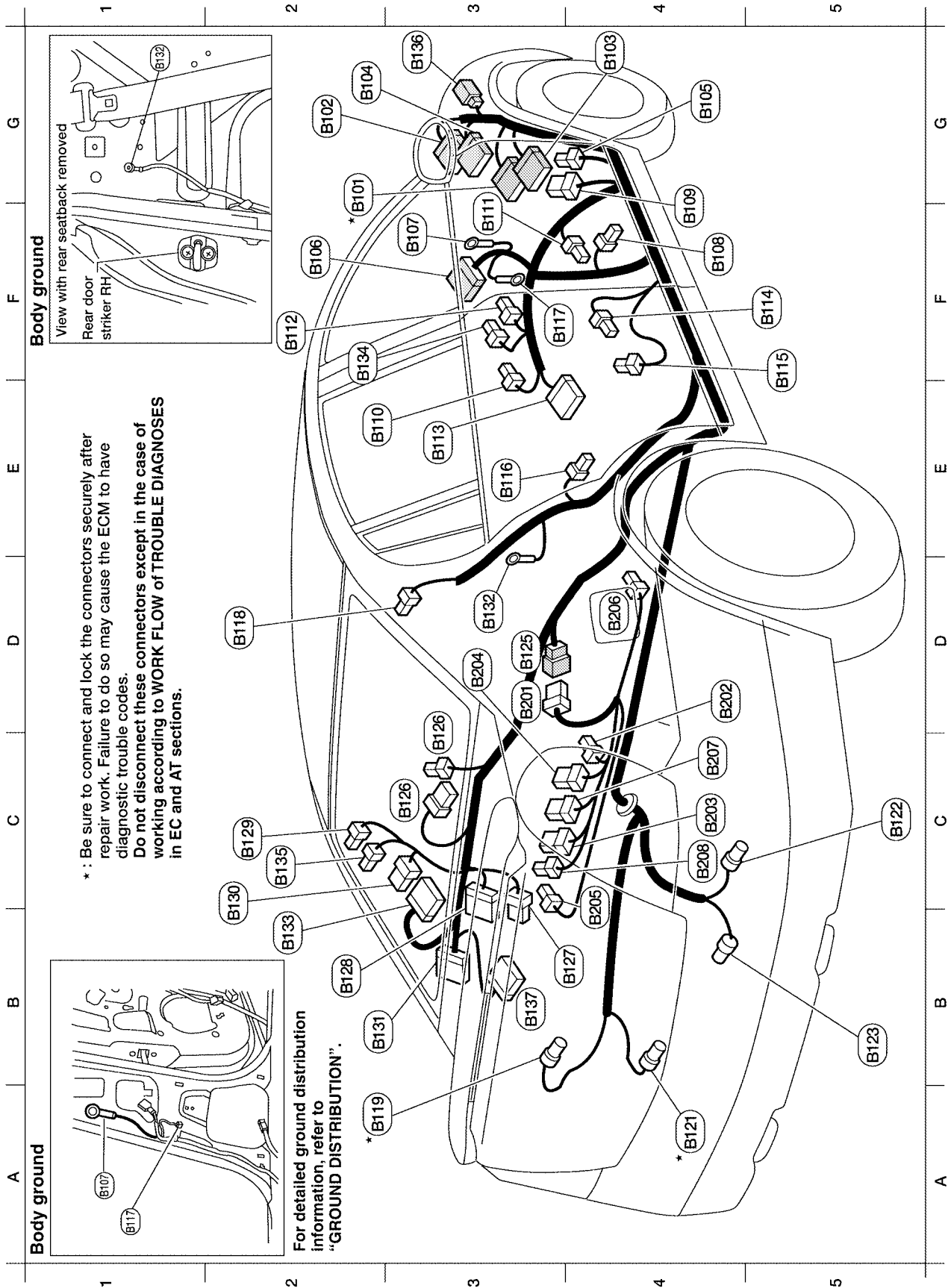
Rear defogger ground harness

F2 (B35)	B/1	: Rear window defogger
F2 (B35)	-	: 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.
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HARNESS

BODY NO. 2 HARNESS AND BODY NO. 3 HARNESS



WKIA1557E

Body harness No. 2

G2	* (B101)	W/18	: To (M84)
G2	(B102)	GR/24	: To (M85)
G4	(B103)	W/16	: To (M86)
G2	(B104)	W/8	: To (E132)
G4	(B105)	L/4	: To Rear power socket relay
F2	(B106)	W/12	: To (C301)
F3	(B107)	-	: Body ground
F4	(B108)	W/3	: Front door switch RH
F4	(B109)	BR/6	: Heated seat relay
E2	(B110)	W/3	: Seat belt buckle switch RH
F3	(B111)	W/3	: Front seat heater RH
F2	(B112)	Y/2	: Front RH side air bag module
E3	(B113)	Y/12	: Air bag diagnosis sensor unit
F5	(B114)	Y/2	: RH side air bag (satellite) sensor
F5	(B115)	Y/2	: Front RH seat belt pre-tensioner
E3	(B116)	W/1	: Rear door switch RH
F3	(B117)	-	: Body ground
D2	(B118)	Y/2	: RH side curtain air bag module
A2	* (B119)	GR/3	: EVAP control system pressure sensor
A4	* (B121)	B/2	: EVAP canister vent control valve
C5	(B122)	GR/2	: Rear wheel sensor RH
B5	(B123)	BL/2	: Rear wheel sensor LH

D3	(B125)	W/8	: To (B201) (Early production)
C2	(B125)	W/10	: To (B201) (Late production)
C3	(B126)	W/2	: Subwoofer RH (without BOSE audio system)
C3	(B126)	BR/6	: Subwoofer RH (with BOSE audio system)
B3	(B127)	GR/8	: BOSE speaker amp.
B2	(B128)	B/24	: BOSE speaker amp.
C2	(B129)	W/2	: High mounted stop lamp
C2	(B130)	W/6	: Rear sunshade unit
B2	(B131)	W/12	: To (B27)
D3	(B132)	-	: Body ground
B2	(B133)	W/10	: Subwoofer amp. (without BOSE audio system)
F2	(B134)	W/2	: To (P101)
C2	(B135)	W/2	: Trunk room lamp
G3	(B136)	W/2	: To (M110)
B3	(B137)	W/16	: Satellite radio tuner (pre-wiring)

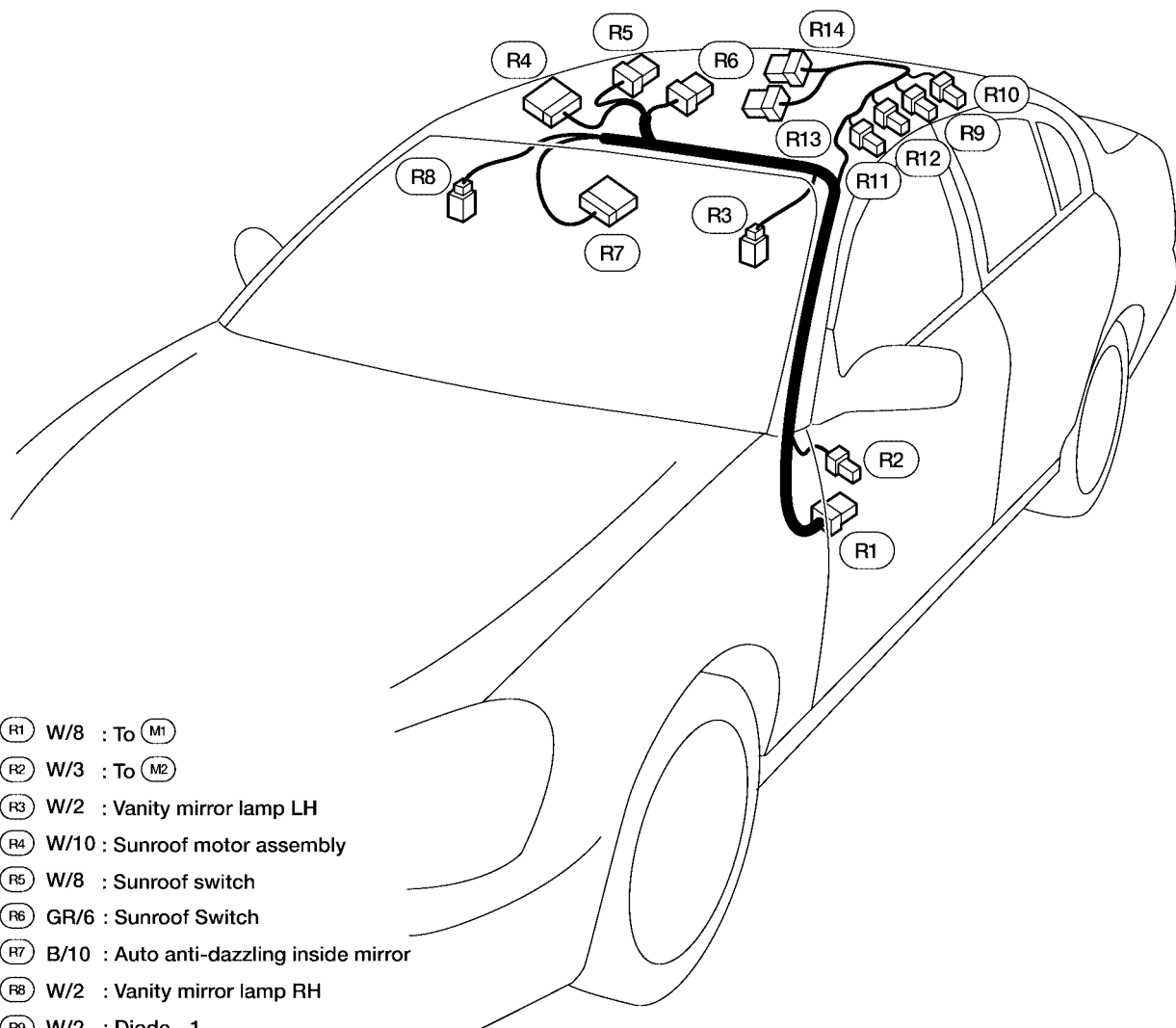
Body harness No. 3

D3	(B201)	W/8	: To (B125)
D4	(B202)	B/2	: Rear power socket
C4	(B203)	W/6	: Rear heated seat switch LH
D3	(B204)	BR/6	: Rear heated seat switch RH
C4	(B205)	W/3	: Rear seat heater LH
D4	(B206)	W/3	: Rear seat heater RH
C4	(B207)	W/6	: Rear sunshade rear switch
C4	(B208)	W/2	: Rear console lamp (late production)

* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
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HARNESS

ROOM LAMP HARNESS



- (R1) W/8 : To (M1)
- (R2) W/3 : To (M2)
- (R3) W/2 : Vanity mirror lamp LH
- (R4) W/10 : Sunroof motor assembly
- (R5) W/8 : Sunroof switch
- (R6) GR/6 : Sunroof Switch
- (R7) B/10 : Auto anti-dazzling inside mirror
- (R8) W/2 : Vanity mirror lamp RH
- (R9) W/2 : Diode - 1
- (R10) W/2 : Diode - 2
- (R11) W/2 : Diode - 3
- (R12) W/2 : Diode - 4
- (R13) W/6 : Personal lamp (with sunroof)
- (R14) W/8 : Interior room lamp (without sunroof)

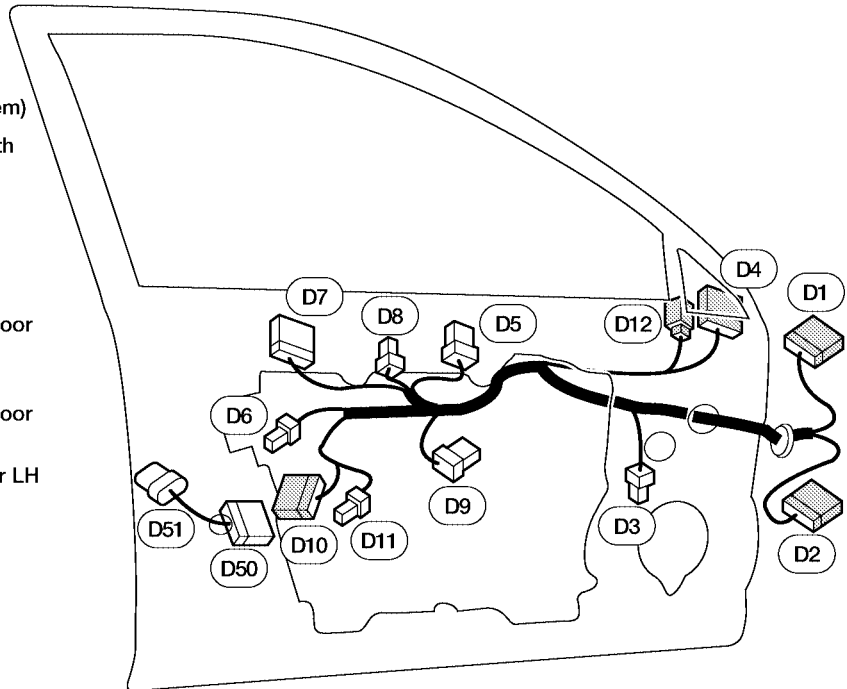
HARNESS

FRONT DOOR LH HARNESS

- (D1) W/12 : To (M9)
- (D2) W/24 : To (M8)
- (D3) W/2 : Front door speaker LH
(without BOSE audio system)
- (D3) BR/2 : Front door speaker LH (with
BOSE audio system)
- (D4) W/12 : Door mirror LH
- (D5) W/8 : Seat memory switch
- (D6) W/4 : Trunk lid opener switch
- (D7) W/16 : Main power window and door
lock/unlock switch
- (D8) W/3 : Main power window and door
lock/unlock switch
- (D9) W/6 : Front power window motor LH
- (D10) W/10 : To (D50)
- (D11) W/2 : Front step lamp LH
- (D12) BR/2 : Tweeter LH

Front door LH sub-harness

- (D50) W/10 : To (D10)
- (D51) B/6 : Front door lock actuator LH (Front door
key cylinder switch LH)



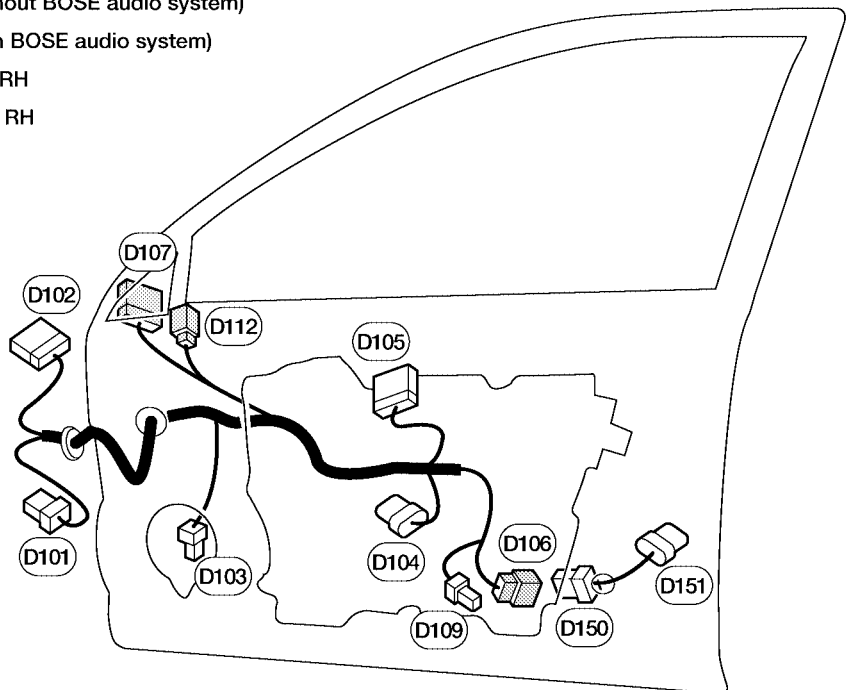
WKIA0512E

FRONT DOOR RH HARNESS

- (D101) W/8 : To (M75)
- (D102) W/16 : To (M74)
- (D103) W/2 : Front door speaker RH (without BOSE audio system)
- (D103) BR/2 : Front door speaker RH (with BOSE audio system)
- (D104) W/6 : Front power window motor RH
- (D105) W/16 : Front power window switch RH
- (D106) W/8 : To (D150)
- (D107) W/12 : Door mirror RH
- (D109) W/2 : Front step lamp RH
- (D112) BR/2 : Tweeter RH

Front door RH sub-harness

- (D150) W/8 : To (D106)
- (D151) W/8 : Front door lock actuator RH

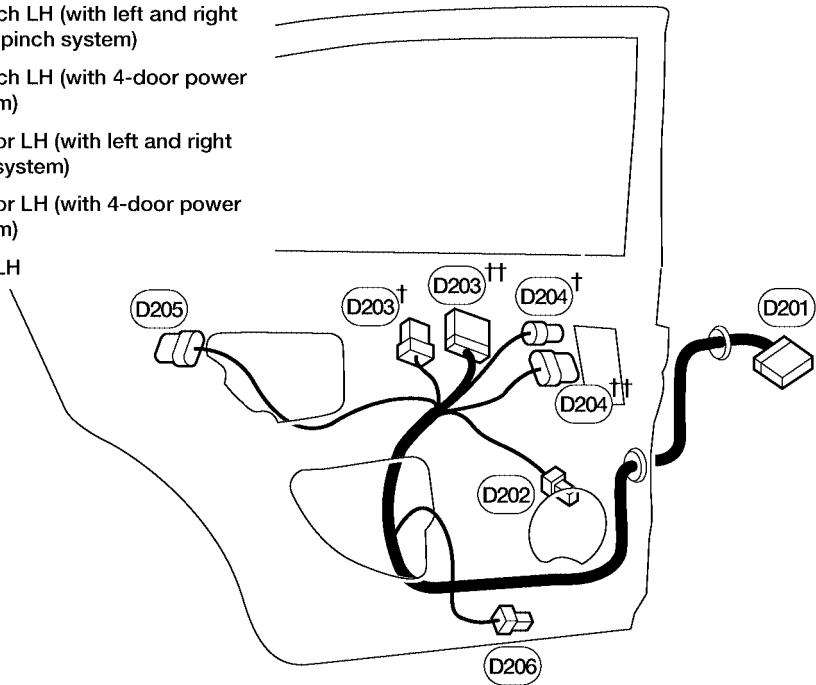


WKIA0513E

HARNESS

REAR DOOR LH HARNESS

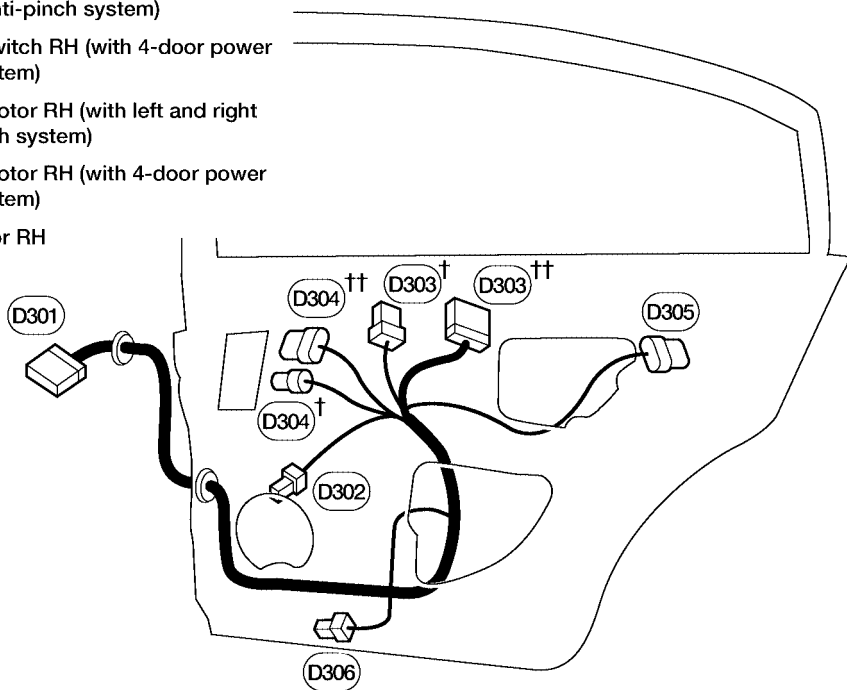
- (D201) W/12 : To (B6)
- (D202) BR/2 : Rear door speaker LH (with BOSE audio system)
- (D202) W/2 : Rear door speaker LH (without BOSE audio system)
- (D203)[†] W/8 : Rear power window switch LH (with left and right front power window anti-pinch system)
- (D203)^{††} W/16 : Rear power window switch LH (with 4-door power window anti-pinch system)
- (D204)[†] GR/2 : Rear power window motor LH (with left and right front window anti-pinch system)
- (D204)^{††} GR/6 : Rear power window motor LH (with 4-door power window anti-pinch system)
- (D205) B/4 : Rear door lock actuator LH
- (D206) W/2 : Rear step lamp LH



WKIA0514E

REAR DOOR RH HARNESS

- (D301) W/12 : To (B106)
- (D302) W/2 : Rear door speaker RH (without BOSE audio system)
- (D302) BR/2 : Rear door speaker RH (with BOSE audio system)
- (D303)[†] W/8 : Rear power window switch RH (with left and right front power window anti-pinch system)
- (D303)^{††} W/16 : Rear power window switch RH (with 4-door power window anti-pinch system)
- (D304)[†] GR/2 : Rear power window motor RH (with left and right front window anti-pinch system)
- (D304)^{††} GR/6 : Rear power window motor RH (with 4-door power window anti-pinch system)
- (D305) B/6 : Rear door lock actuator RH
- (D306) W/2 : Rear step lamp RH



WKIA0515E

HARNESS

Wiring Diagram Codes (Cell Codes)

EKS003XC

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
1STSIG	AT	A/T 1st Signal
2NDSIG	AT	A/T 2nd Signal
3RDSIG	AT	A/T 3rd Signal
4THSIG	AT	A/T 4th Signal
5THSIG	AT	A/T 5th Signal
A/C,A	ATC	Auto Air Conditioner
AF1B1	EC	Air Fuel Ratio Sensor 1 Bank 1
AF1B2	EC	Air Fuel Ratio Sensor 1 Bank 2
AF1HB1	EC	Air Fuel Ratio Sensor 1 Heater Bank 1
AF1HB2	EC	Air Fuel Ratio Sensor 1 Heater Bank 2
AUTO/L	LT	Auto Light Control
ABS	BRC	Anti-Lock Brake System
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASCBOF	EC	ASCD Brake Switch
ASC/BS	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
ASC/SW	EC	ASCD Steering Switch
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUTO/DP	SE	Automatic Drive Positioner
BAF/TS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
COOL/F	EC	Cooling Fan Control
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication System
COMPAS	DI	Compass
CORNER	LT	Cornering Lamps
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
EGRC1	EC	EGR Function
EGR/TS	EC	EGR Temperature Sensor
EGVC/V	EC	EGR Volume Control Valve
ENGSS	AT	Engine Speed Signal
EMNT	EC	Engine Mount
ETC1	EC	Electric Throttle Control Function

HARNESS

ETC2	EC	Throttle Control Motor Relay	A
ETC3	EC	Throttle Control Motor	
F/FOG	LT	Front Fog Lamp	
F/PUMP	EC	Fuel Pump	B
FTS	AT	A/T Fluid Temperature Sensor	
FTSP	AT	A/T Fluid Temperature Sensor Failure	C
FTTS	EC	Fuel Tank Temperature Sensor	
FUELB1	EC	Fuel Injection System Bank 1	D
FUELB2	EC	Fuel Injection System Bank 2	
H/LAMP	LT	Headlamp	E
HORN	WW	Horn	
HSEAT	SE	Heated Seat	F
H/STRG	PS	Heated Steering Wheel	
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)	G
IATS	EC	Intake Air Temperature Sensor	
IGNSYS	EC	Ignition System	H
ILL	LT	Illumination	
INJECT	EC	Injector	I
IVC	EC	Intake Valve Timing Control Solenoid Valve	
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1	J
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2	
KEYLES	BL	Remote Keyless Entry System	PG
KS	EC	Knock Sensor	
MAFS	EC	Mass Air Flow Sensor	L
MAIN	AT	Main Power Supply and Ground Circuit	
MAIN	EC	Main Power Supply and Ground Circuit	M
METER	DI	Speedometer, Tachometer, Temp., Oil 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	
NONDTC	AT	Non-detectable Items	
O2H2B1	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1	
O2H2B2	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2	
O2S2B1	EC	Heated Oxygen Sensor 2 (Rear) Bank 1	
O2S2B2	EC	Heated Oxygen Sensor 2 (Rear) Bank 2	
PC/A	AT	Line Pressure Solenoid Valve	
PC/B	AT	Shift Pressure Solenoid Valve	
PC/C	AT	Pressure Control Solenoid Valve	
PC/CS	AT	Pressure Control Solenoid Valve Failure	
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank 1)	
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank 2)	
PNP/SW	AT	Park/Neutral Position Switch	
PNP/SW	EC	Park/Neutral Position Switch	
POS	EC	Crankshaft Position Sensor (CKPS) (POS)	
POWER	PG	Power Supply Routing	
PRE/SE	EC	EVAP Control System Pressure Sensor	
P/SCKT	WW	Power Socket	
PS/SEN	EC	Power Steering Oil Pressure Sensor	
PST/SW	EC	Power Steering Oil Pressure Switch	

HARNESS

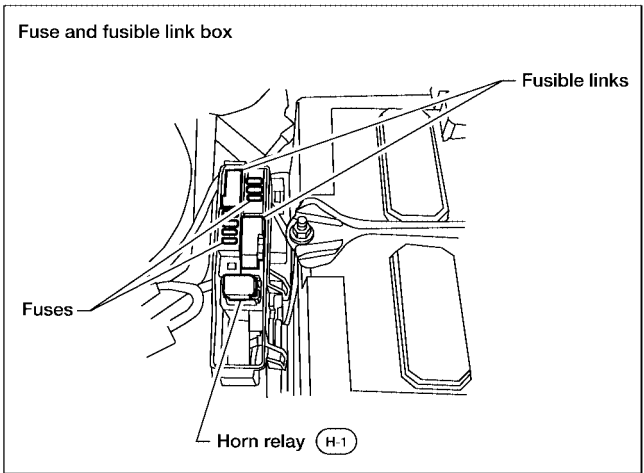
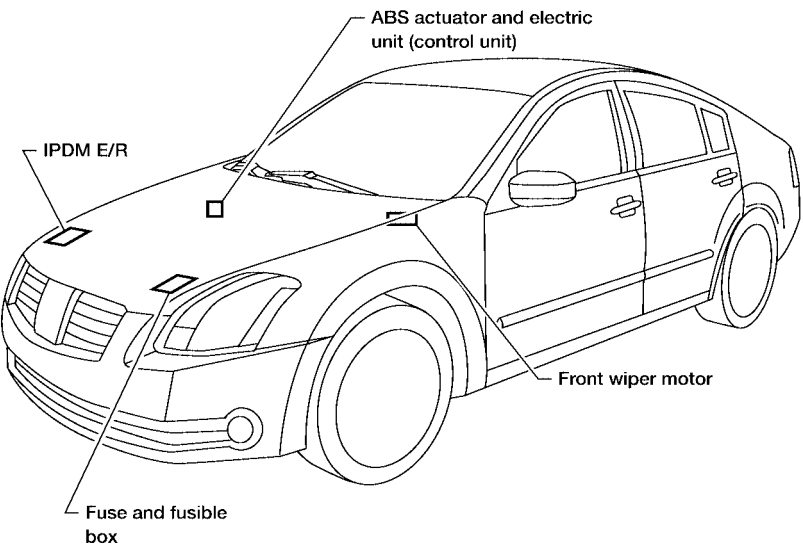
PWR/IN	AT	TCM Ignition Power
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
S/SIG	EC	Start Signal
SEAT	SE	Power Seat
SEN/PW	EC	Sensor Power Supply
SFTFNC	AT	Unusual Shifting
SHADE	EI	Rear Sunshade
SHIFT	AT	A/T Shift Lock System
SROOF	RF	Sunroof
SRS	SRS	Supplemental Restraint System
SSV/A	AT	Shift Solenoid Valve A
SSV/B	AT	Shift Solenoid Valve B
SSV/C	AT	Shift Solenoid Valve C
SSV/CS	AT	Shift Solenoid Valve C Failure
SSV/D	AT	Shift Solenoid Valve D
SSV/E	AT	Shift Solenoid Valve E
START	SC	Starting System
STOP/L	LT	Stop Lamp
TLID	BL	Trunk Lid Opener
TAIL/L	LT	Parking, License and Tail Lamps
TCCSIG	AT	A/T TCC Signal (Lock Up)
TCS	BRC	Traction Control System
TPS	AT	Throttle Position Sensor
TPS1	EC	Throttle Position Sensor
TPS2	EC	Throttle Position Sensor
TPS3	EC	Throttle Position Sensor
TRNSCV	BL	HOMELINK® Universal Transceiver
TRSA/T	AT	Turbine Revolution Sensor
TRSC	AT	Turbine Revolution Sensor
TURN	LT	Turn Signal and Hazard Warning Lamps
VDC	BRC	Vehicle Dynamic Control System
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VIAS	EC	Variable Air Induction Control System
VIAS/V	EC	Variable Air Induction Control System Valve
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
VSSATC	AT	Revolution Sensor
VSSMTR	AT	Vehicle Speed Sensor Meter
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

ELECTRICAL UNITS LOCATION

PFP:25230

Electrical Units Location
ENGINE COMPARTMENT

EKS003XD



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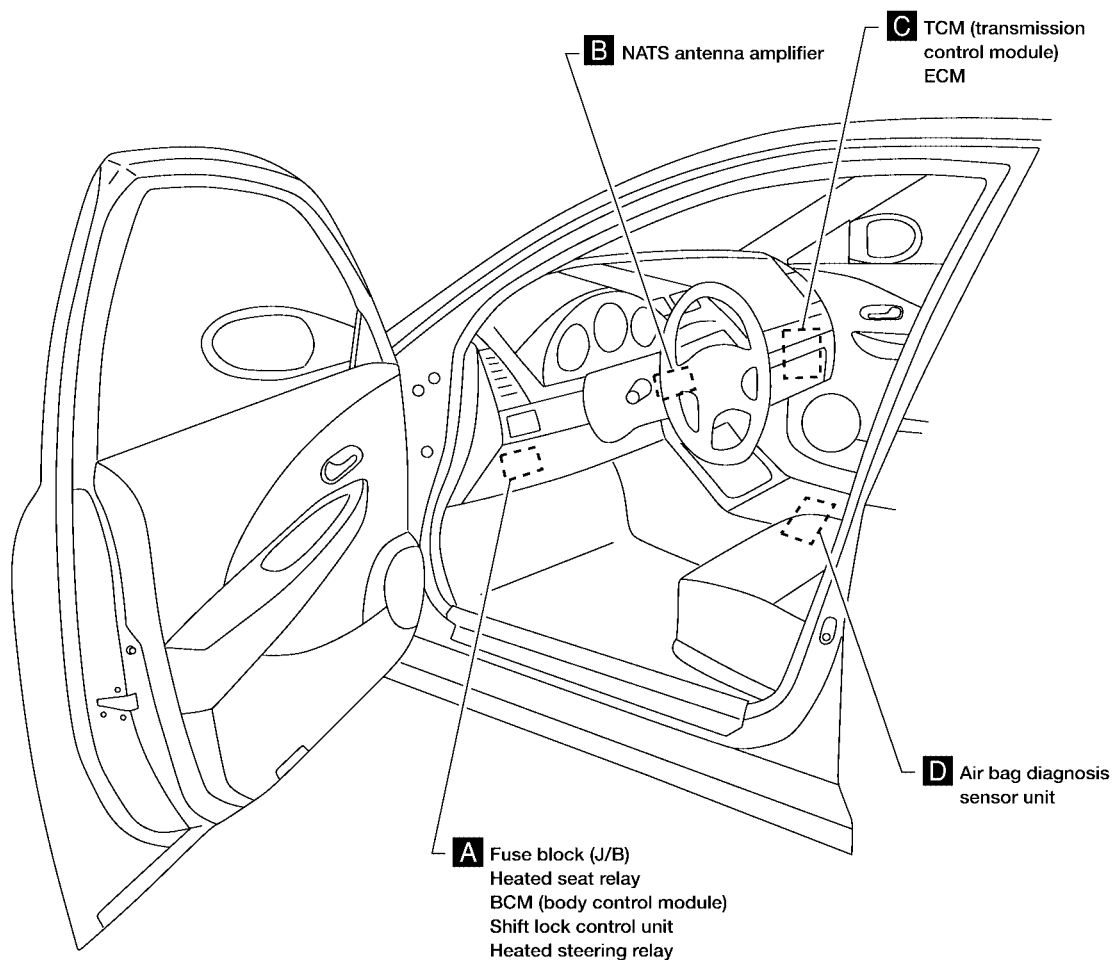
PG

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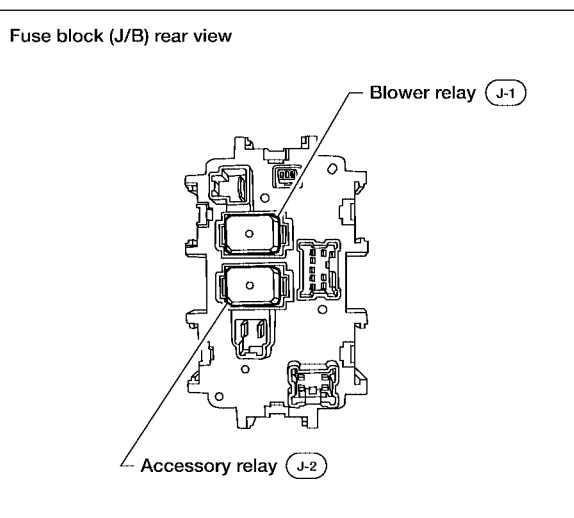
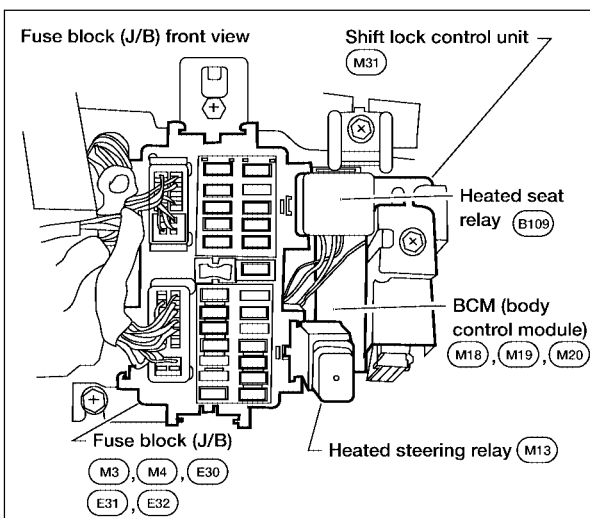
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ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT

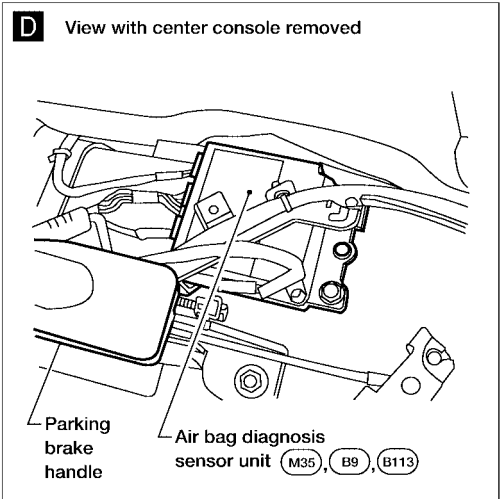
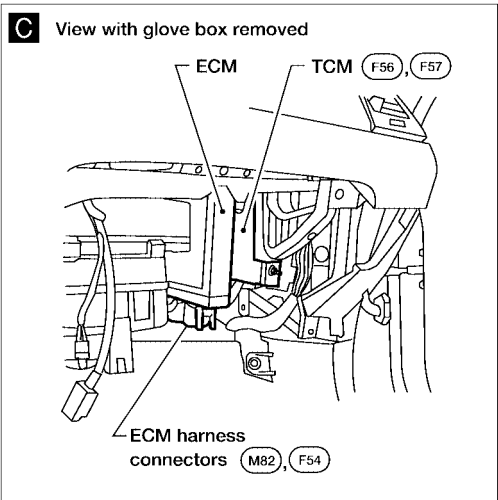
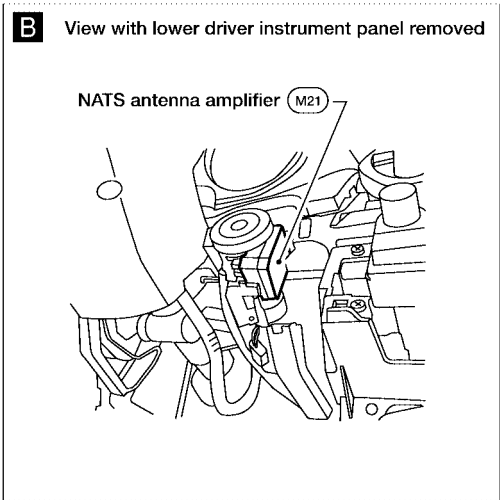


A Dash side LH



WKIA0475E

ELECTRICAL UNITS LOCATION



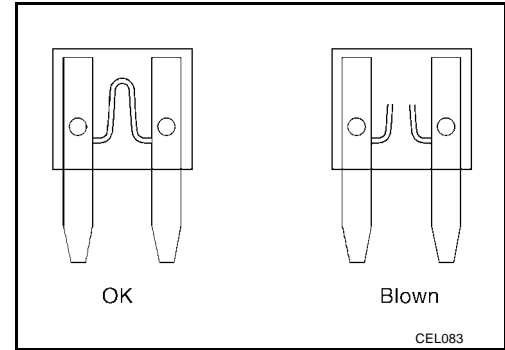
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ELECTRICAL UNITS LOCATION

Fuse

EKS003XE

- 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

EKS003XF

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.

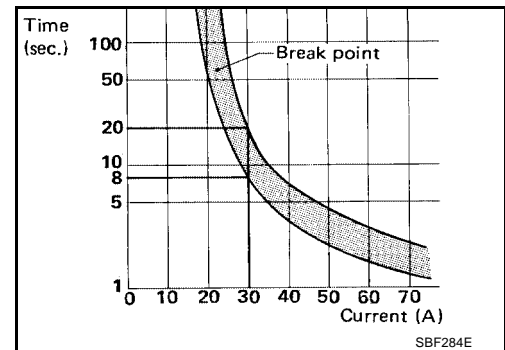
Circuit Breaker (Built Into BCM)

EKS003XG

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



HARNESS CONNECTOR

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

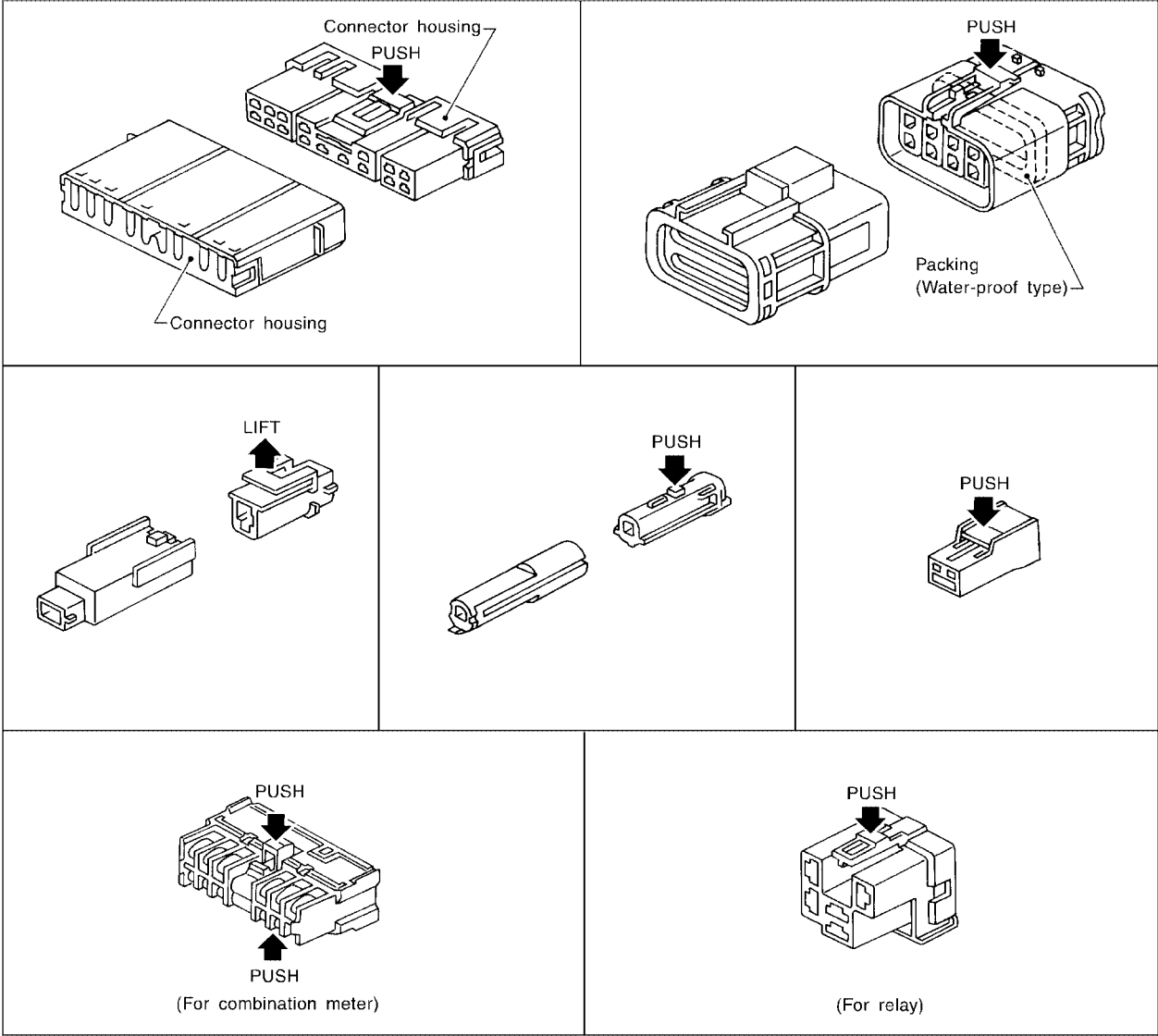
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



HARNESS CONNECTOR

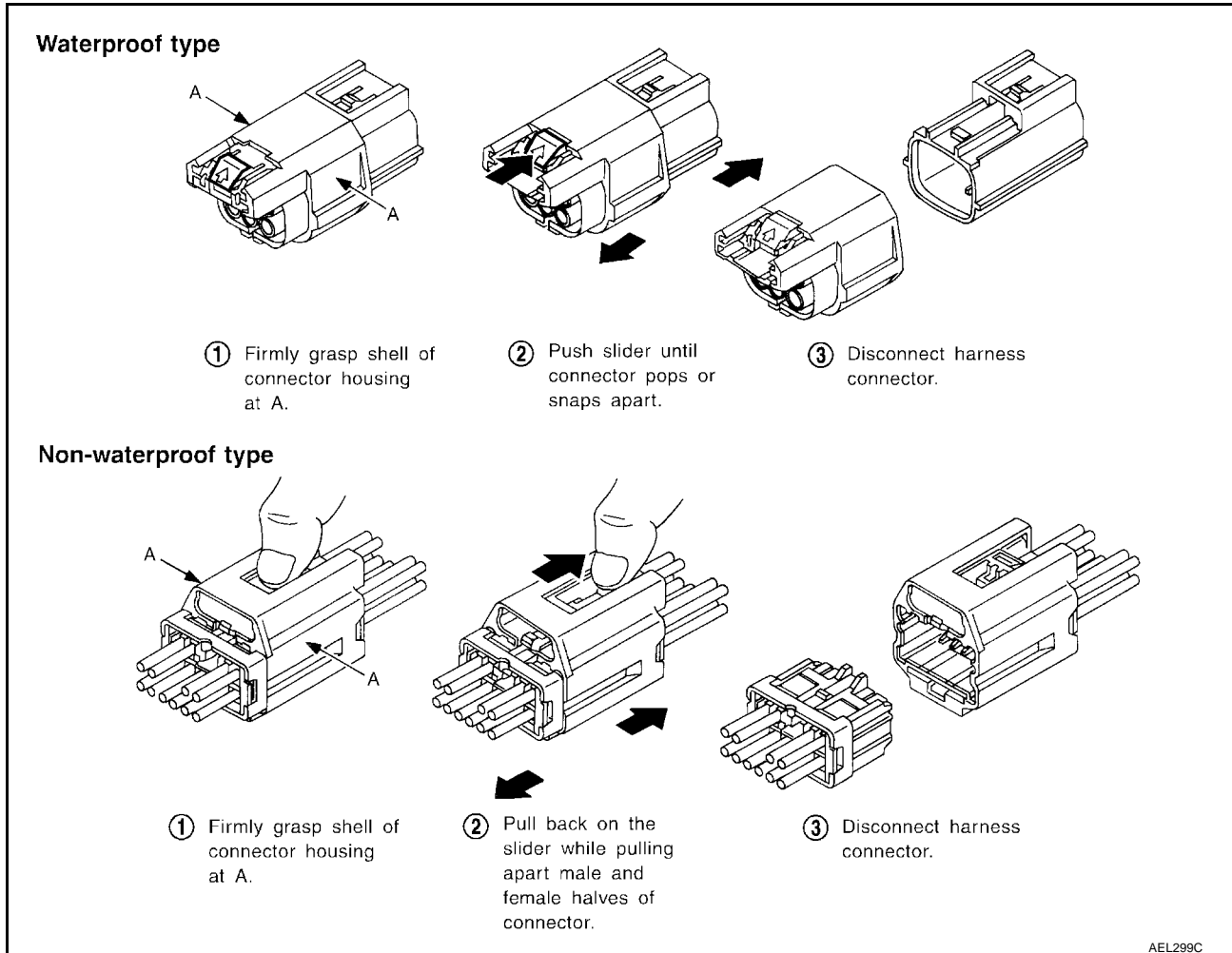
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



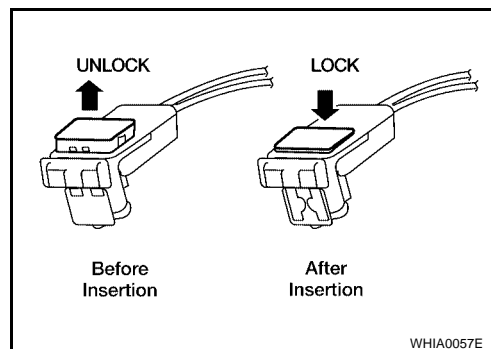
HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- 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.

HARNESS CONNECTOR

CAUTION:

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



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ELECTRICAL UNITS

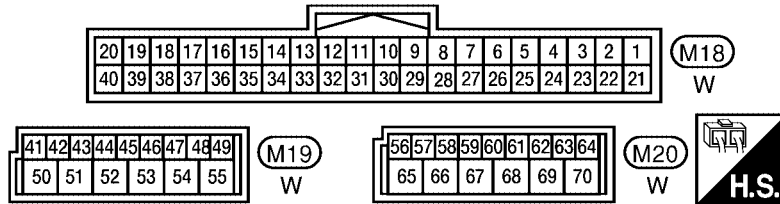
ELECTRICAL UNITS

PFP:23710

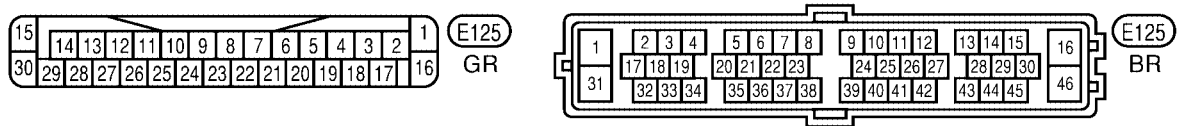
Terminal Arrangement

EKS003XJ

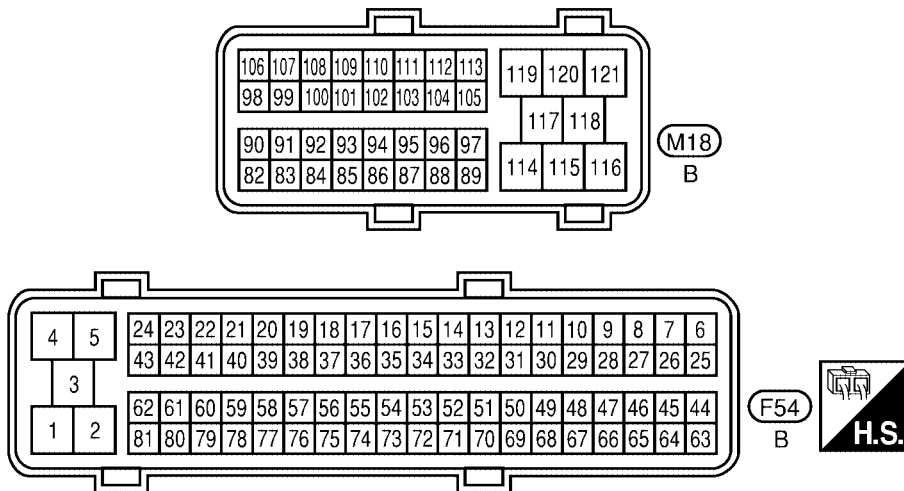
BCM (BODY CONTROL MODULE)



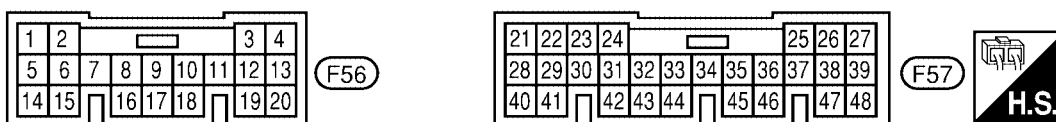
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



ECM



TCM (TRANSMISSION CONTROL MODULE)



STANDARDIZED RELAY

STANDARDIZED RELAY

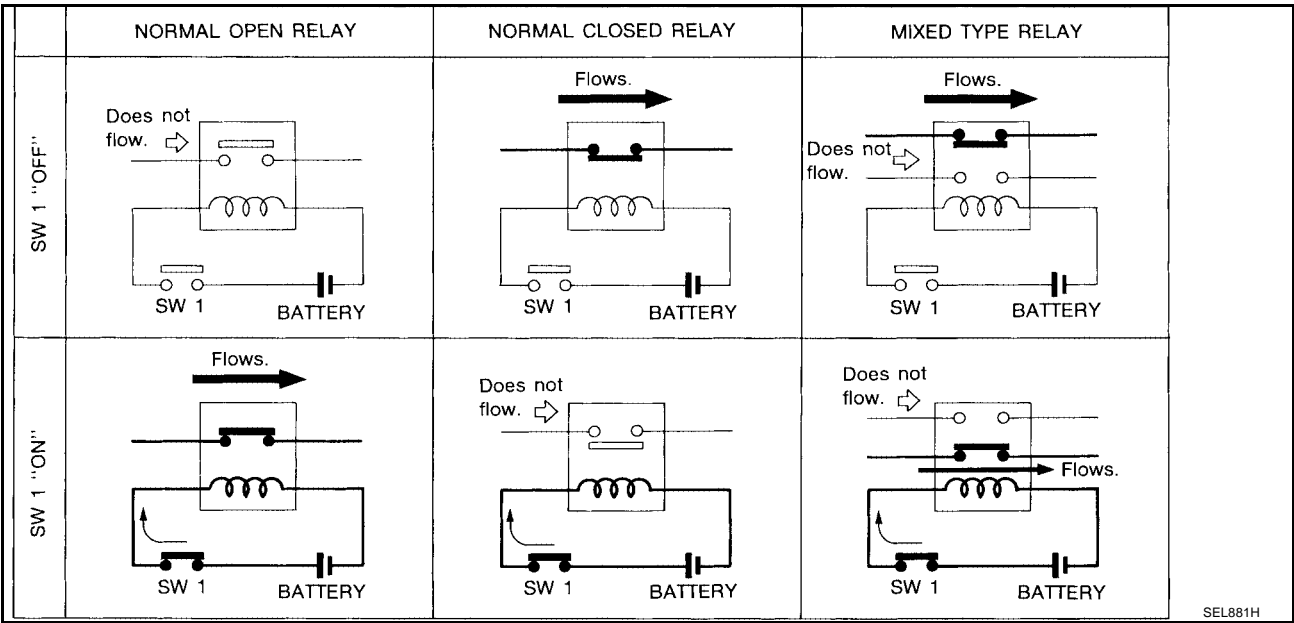
PFP:25230

EKS003XK

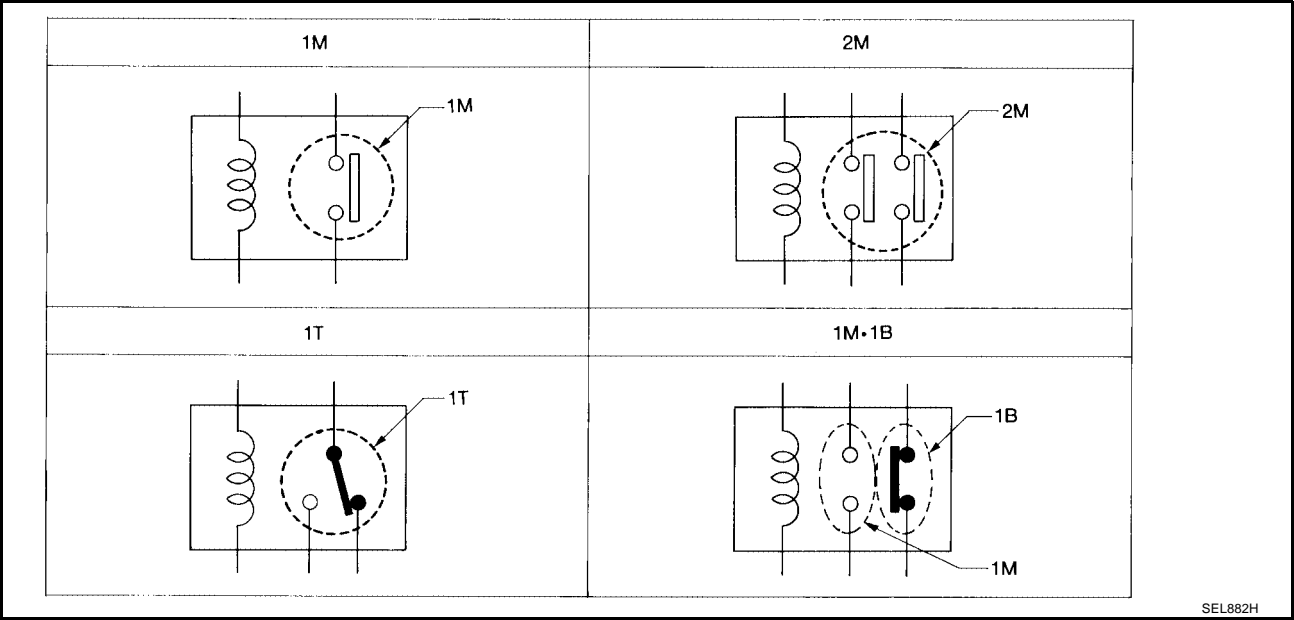
Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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

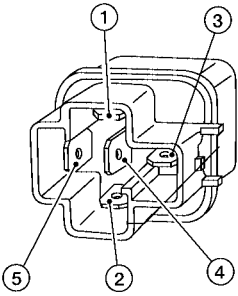
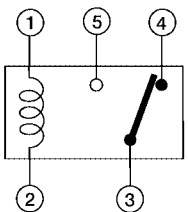
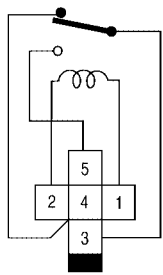
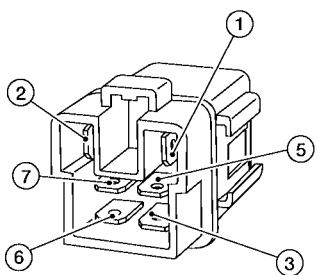
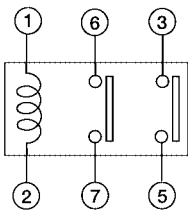
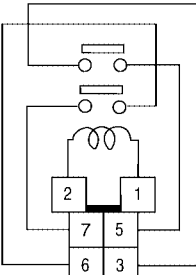
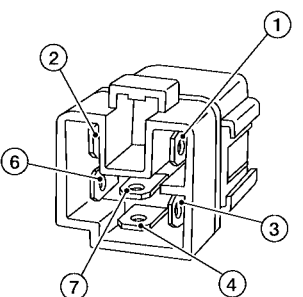
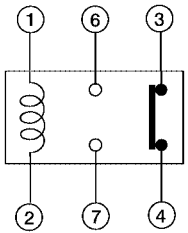
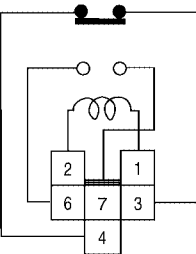
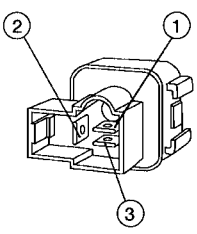
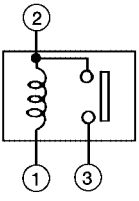
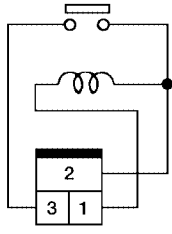
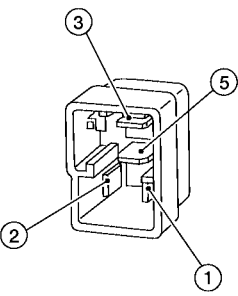
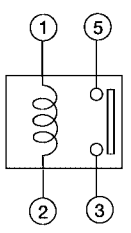
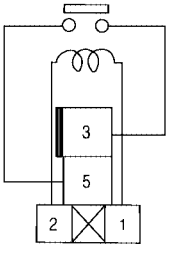


TYPE OF STANDARDIZED RELAYS



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

STANDARDIZED RELAY

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

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

WKIA0253E

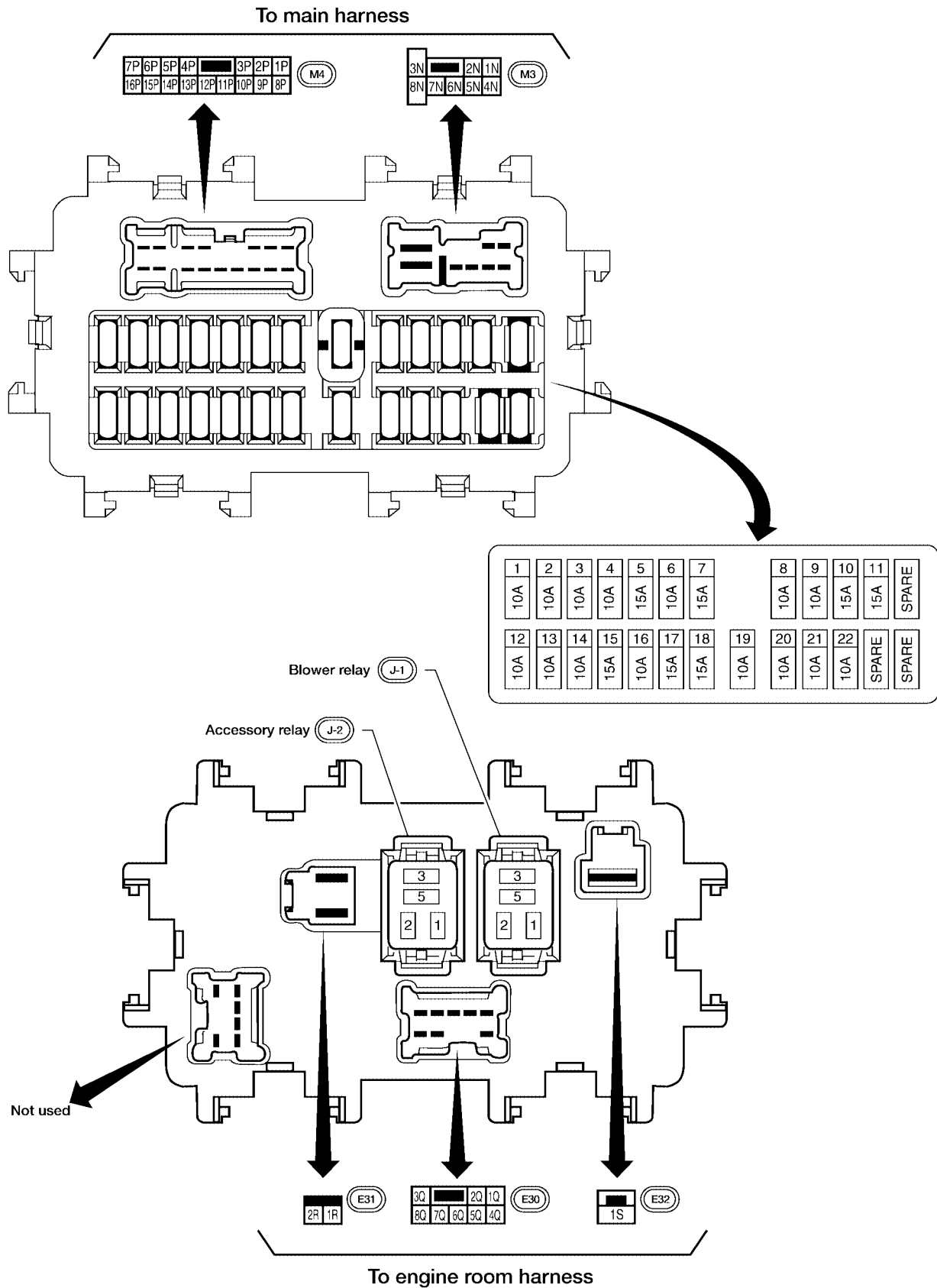
FUSE BLOCK-JUNCTION BOX(J/B)

FUSE BLOCK-JUNCTION BOX(J/B)

PFP:24350

Terminal Arrangement

EKS003XL



FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX
Terminal Arrangement

PFP:24381

EKS003XM

