

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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POWER SUPPLY ROUTING CIRCUIT

POWER SUPPLY ROUTING CIRCUIT

Schematic

PPF:24110

NKS000DZ

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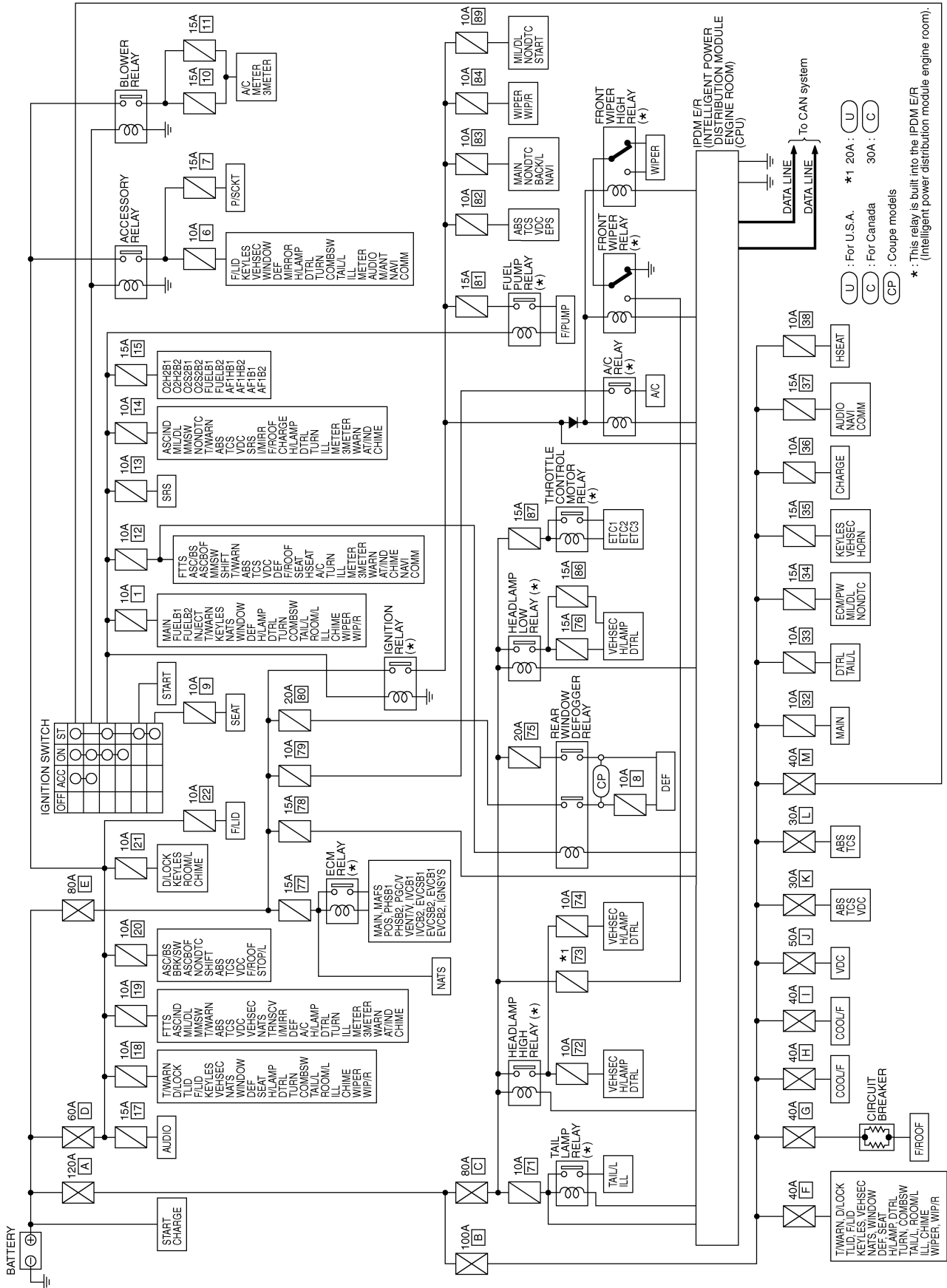
I

J

PG

L

M

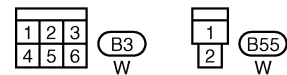
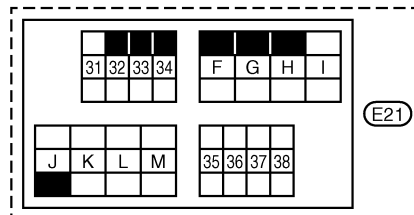
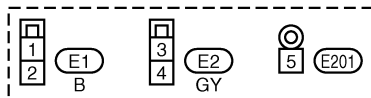
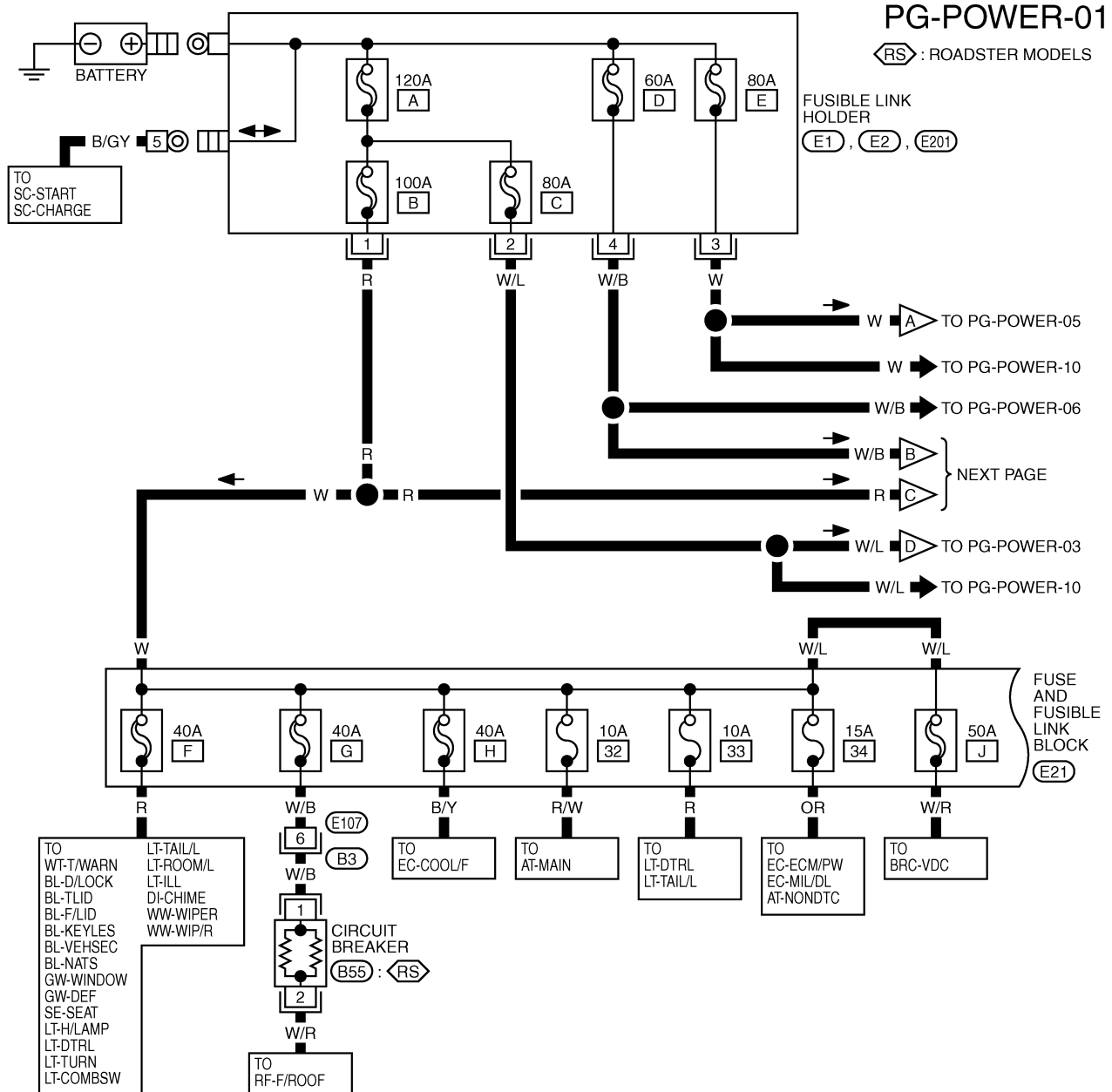


TKWT4101E

POWER SUPPLY ROUTING CIRCUIT

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

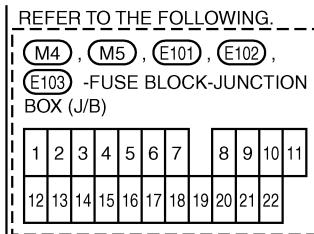
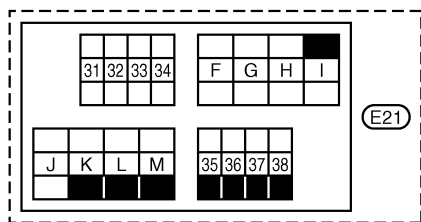
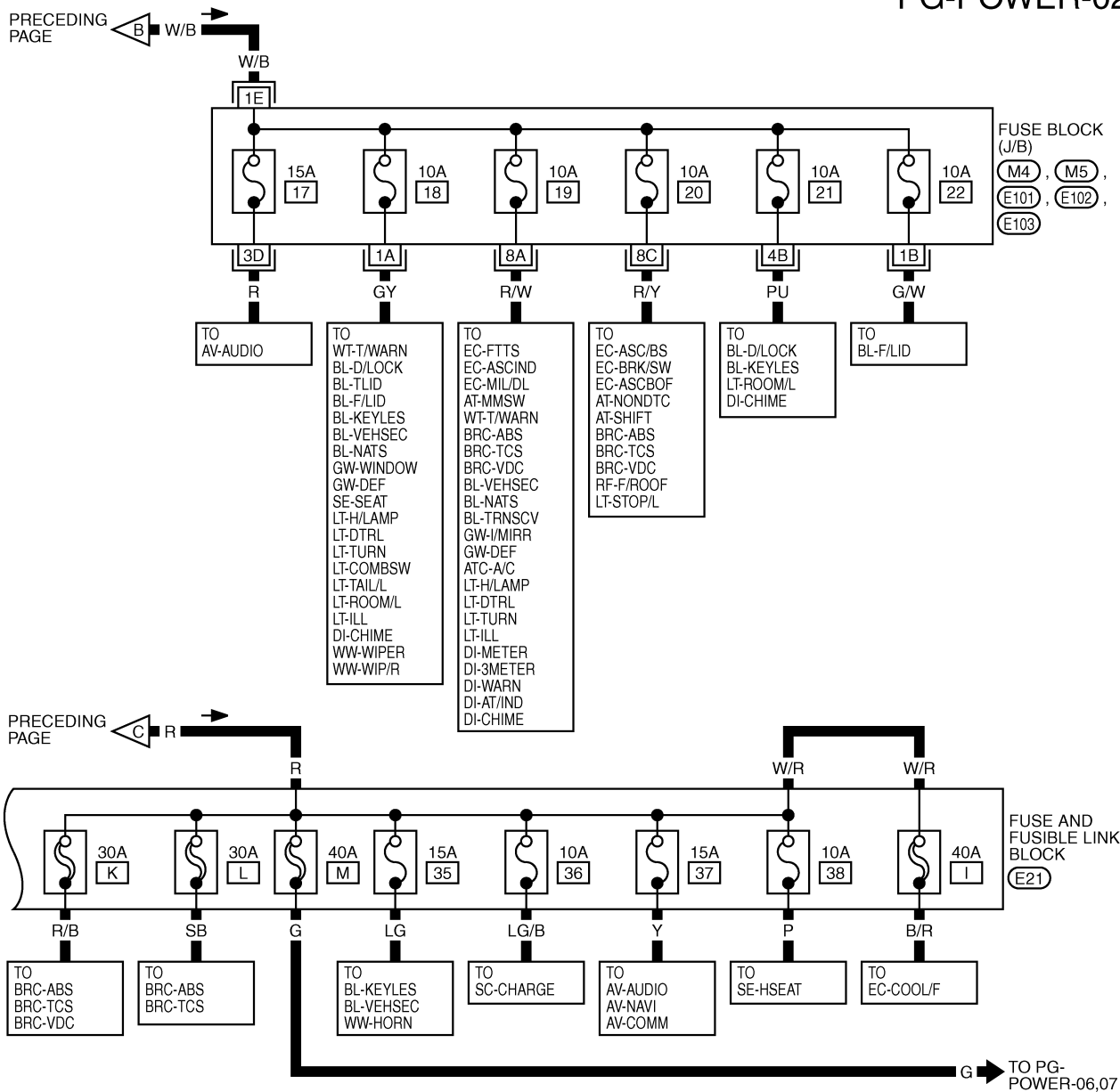
NKS000E0



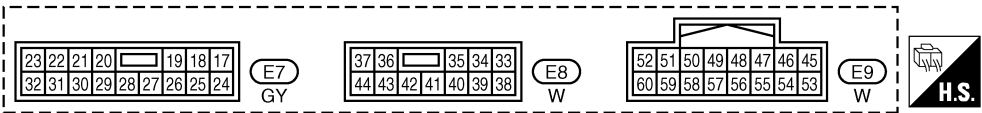
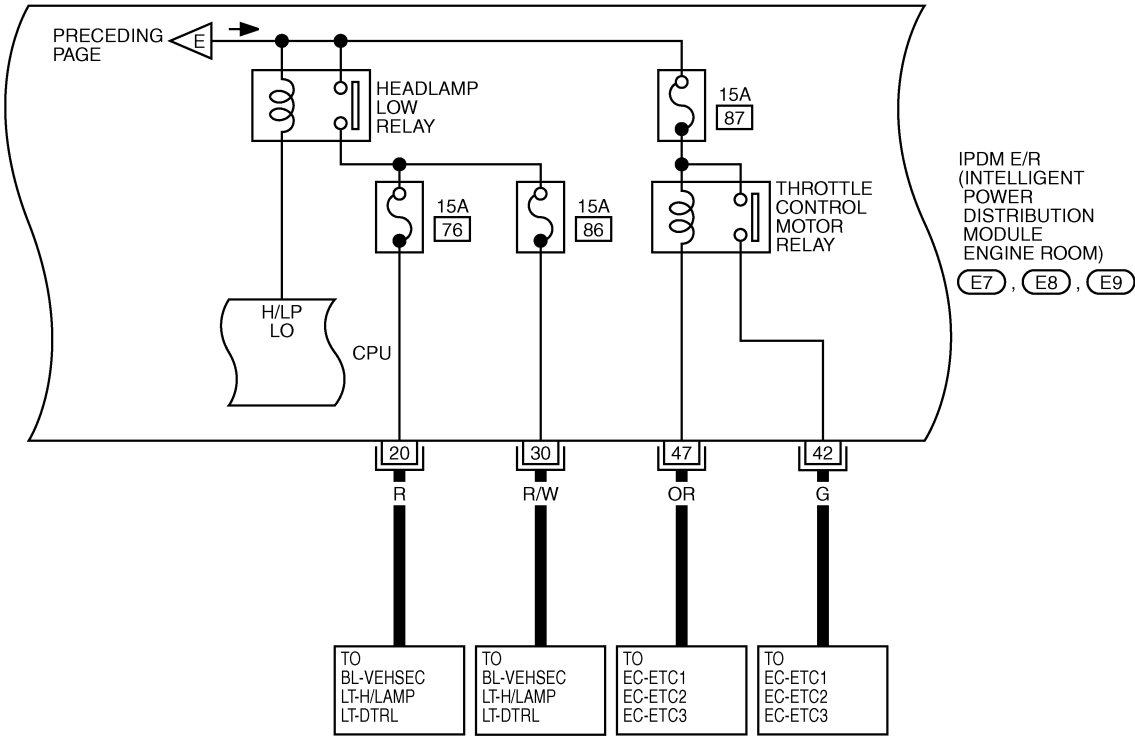
TKWT4102E

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-02

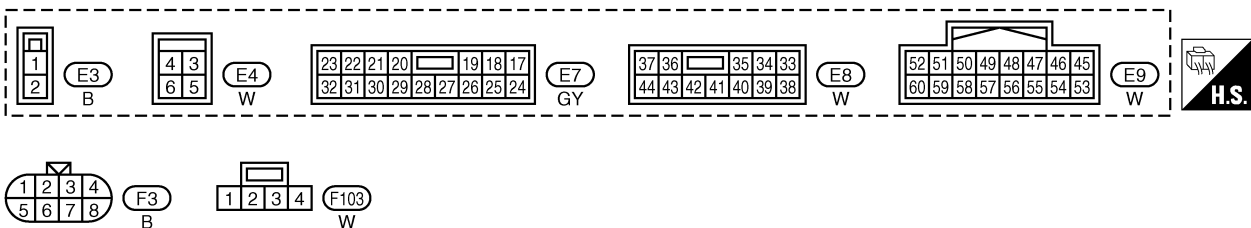
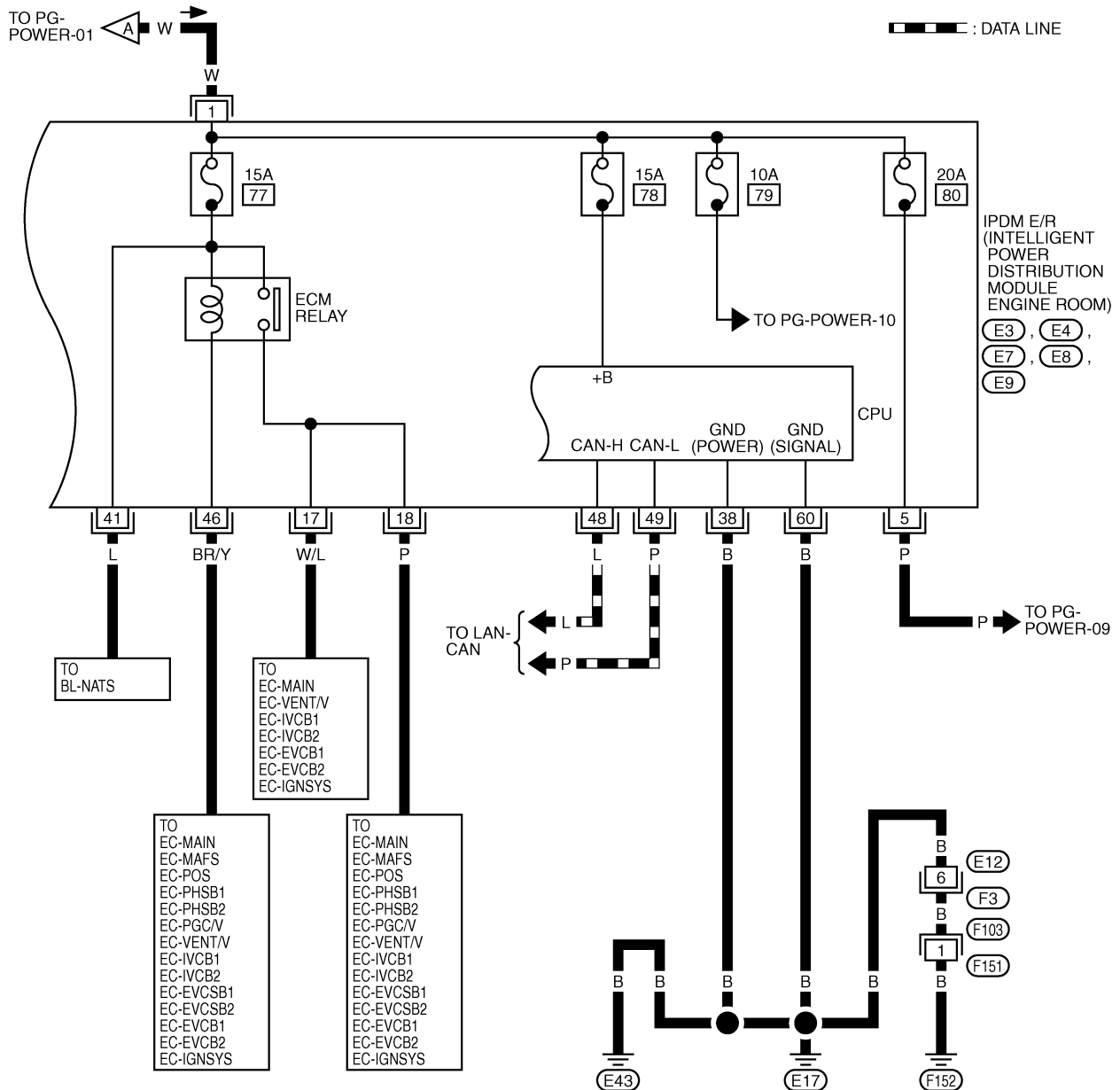


TKWT4103E



POWER SUPPLY ROUTING CIRCUIT

PG-POWER-05

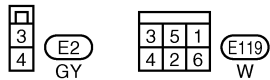
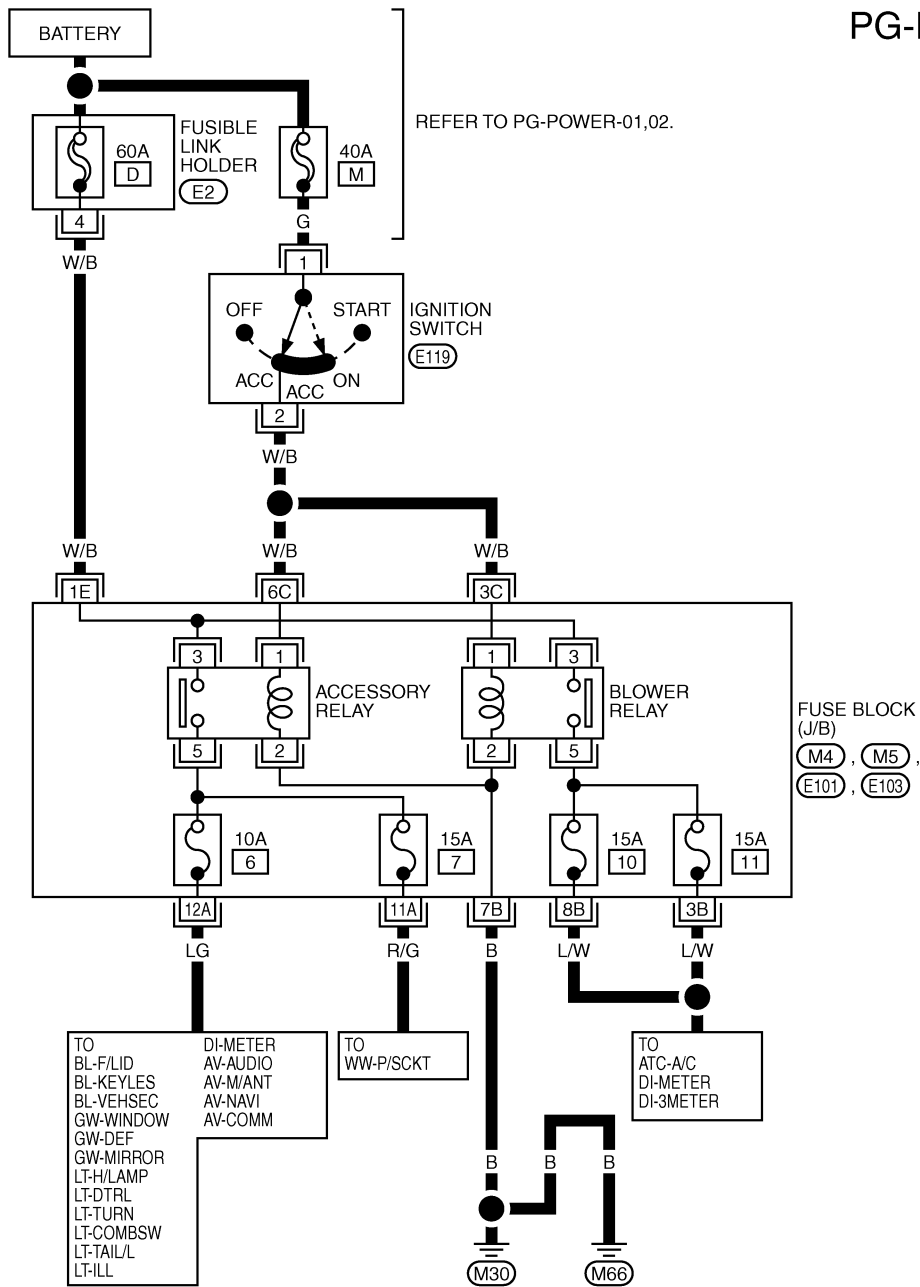


TKWT4106E

POWER SUPPLY ROUTING CIRCUIT

ACCESSORY POWER SUPPLY — IGNITION SW. IN “ACC” OR “ON”

PG-POWER-06



REFER TO THE FOLLOWING.

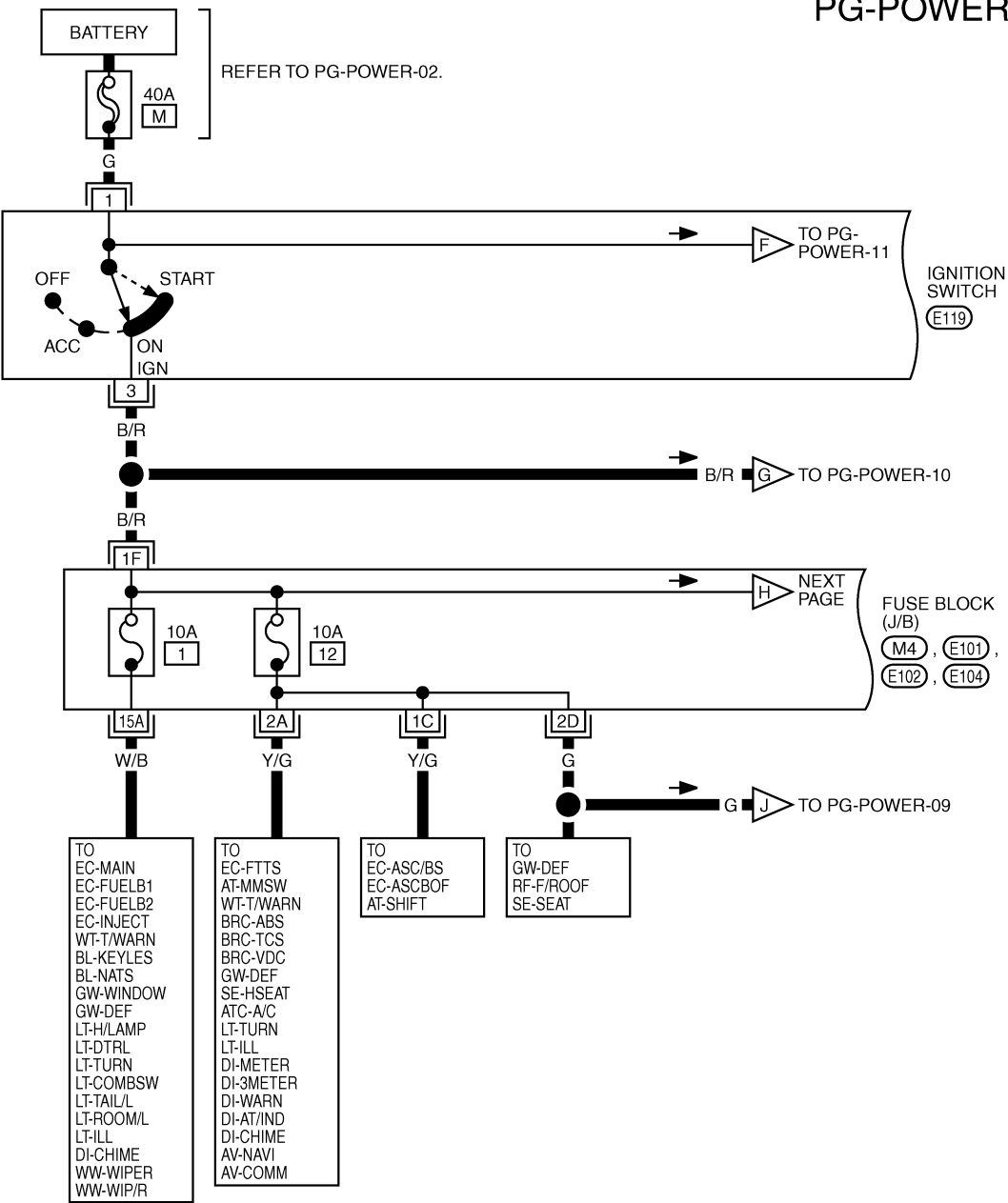
M4, M5, E101, E103										
-FUSE BLOCK-JUNCTION BOX (J/B)										
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

TKWT4107E

POWER SUPPLY ROUTING CIRCUIT

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

PG-POWER-07



3	5	1
4	2	6

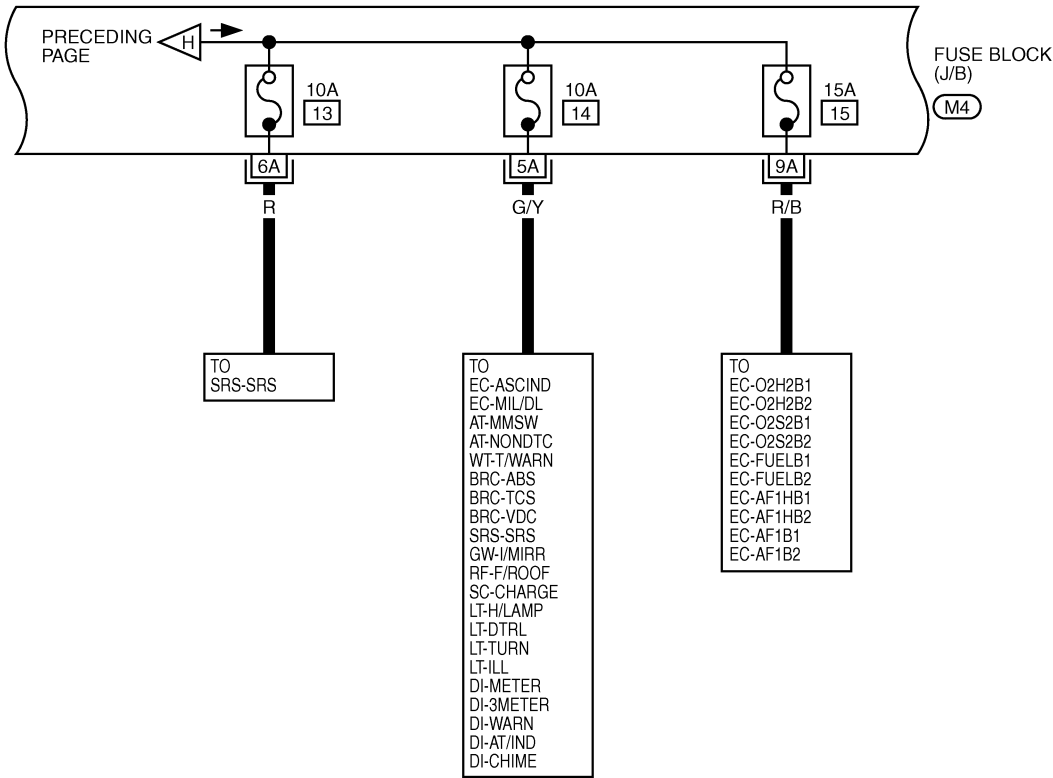
E119
W

REFER TO THE FOLLOWING.

M4, E101, E102, E104
-FUSE BLOCK-JUNCTION BOX (J/B)

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

TKWT4108E

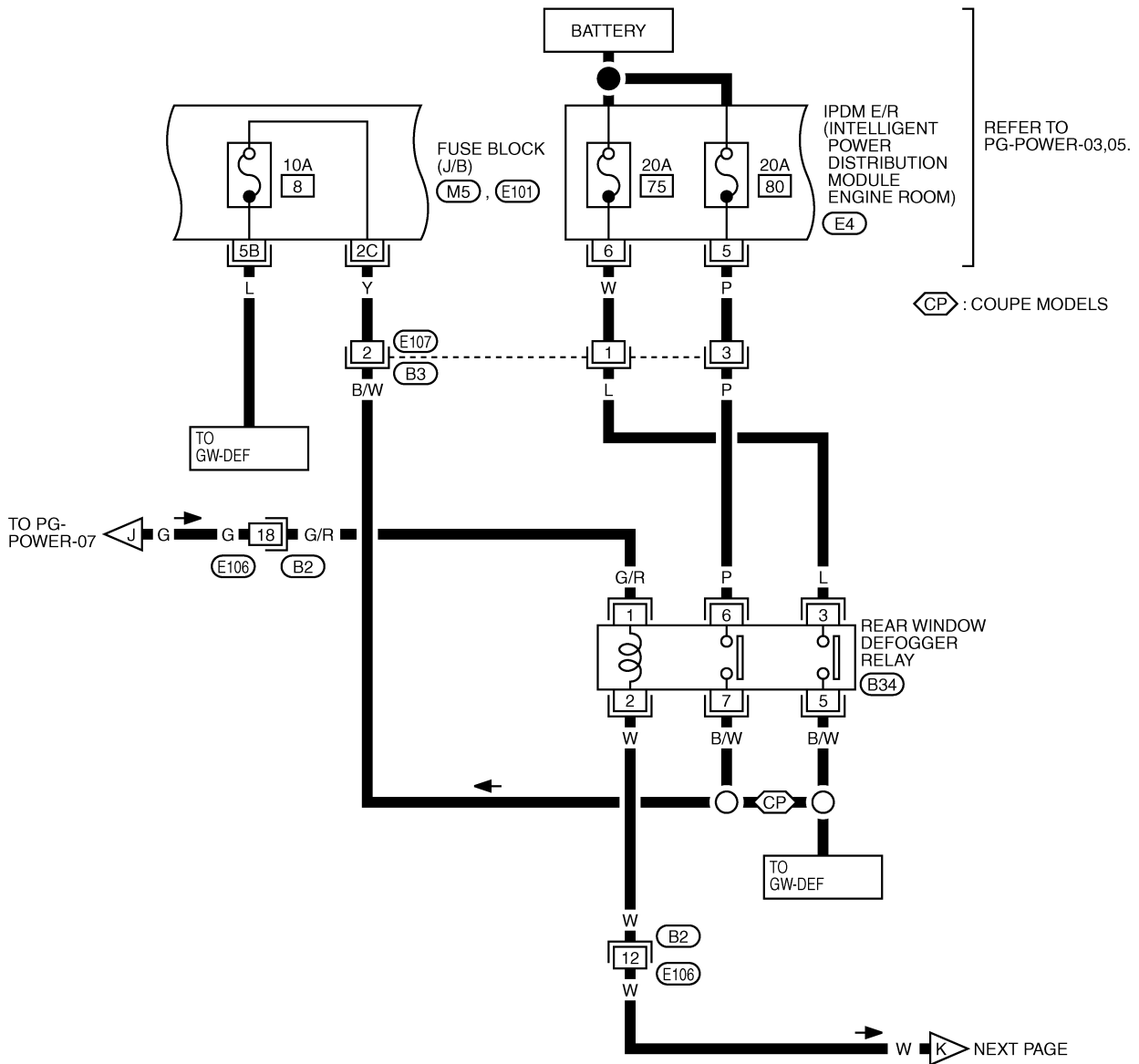


REFER TO THE FOLLOWING.

M4 - FUSE BLOCK- JUNCTION BOX (J/B)										
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-09



4	3
6	5

E4
W



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

B2
W

1	2	3
4	5	6

B3
W

1	2
5	7
3	6

B34
BR

REFER TO THE FOLLOWING.

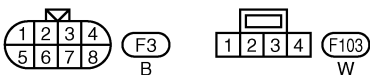
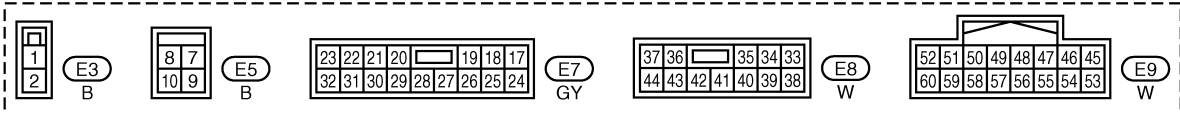
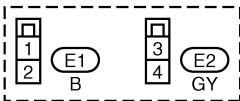
(M5, E101) - FUSE BLOCK-JUNCTION BOX (J/B)

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

TKWT4109E

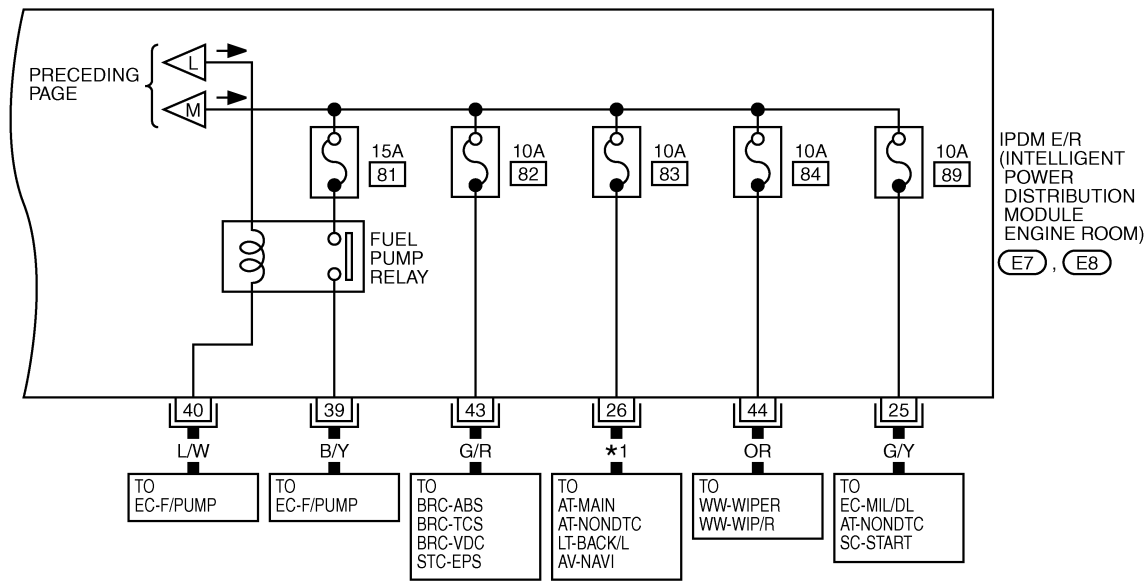
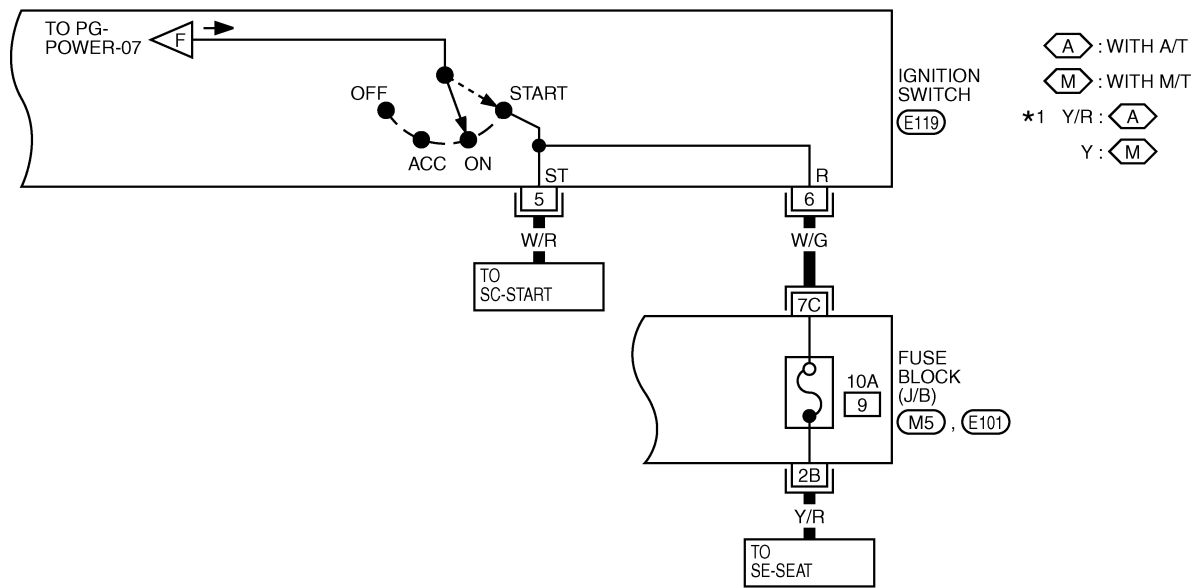
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PG



POWER SUPPLY ROUTING CIRCUIT

PG-POWER-11



23	22	21	20	19	18	17
32	31	30	29	28	27	26
25	24					

(E7) GY

37	36	35	34	33
44	43	42	41	40
39	38			

(E8) W



3	5	1
4	2	6

(E119) W

REFER TO THE FOLLOWING.

(M5, E101) -FUSE BLOCK-JUNCTION BOX (J/B)

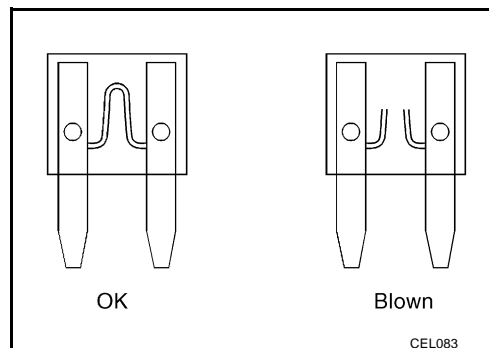
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

POWER SUPPLY ROUTING CIRCUIT

Fuse

NKS000E1

- If fuse is blown, be sure to eliminate cause of malfunction 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.



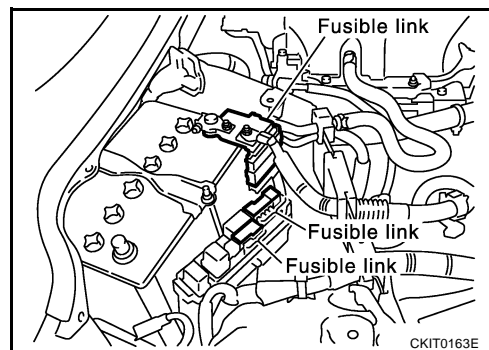
Fusible Link

NKS000E2

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:

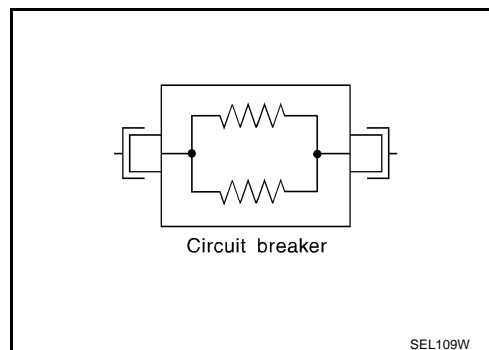
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



Circuit Breaker

NKS000E3

The PTC thermistor generates heat in response to current flow. The temperature (and resistance) of the thermistor element varies with current flow. Excessive current flow will cause the element's temperature to rise. When the temperature reaches a specified level, the electrical resistance will rise sharply to control the circuit current. Reduced current flow will cause the element to cool. Resistance falls accordingly and normal circuit current flow is allowed to resume.



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

PFP:284B7

System Description

NKS000E4

- IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates relays and fuse blocks which were originally placed in engine room. It controls integrated relays via IPDM E/R control circuit.
- IPDM E/R integrated control unit performs ON-OFF operation of relay, hood switch signal reception, etc.
- It controls operation of each electrical part 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

IPDM E/R receives a request signal from each control unit with CAN communication. It controls each system.

Control system	Transmit control unit	Control part
Lamp control	BCM	<ul style="list-style-type: none"> ● Head lamps (HI, LO) ● Parking lamps, license plate lamps and tail lamps
Wiper control	BCM	Front wipers
Rear window defogger control	BCM	Rear window defogger
A/C compressor control	ECM	A/C compressor (magnet clutch)
Cooling fan control	ECM	Cooling fan

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 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 recovers normally, 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 is ON. ● With the ignition switch OFF, the tail and parking lamps is 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

IPDM E/R STATUS CONTROL

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

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

CAN Communication System Description

NKS000E5

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

NKS000E6

Refer to [LAN-24, "CAN Communication Unit"](#).

Function of Detecting Ignition Relay Malfunction

NKS000E7

- When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON parking lamp, license plate lamp and tail lamp for 10 minutes to indicate ignition relay malfunction.
- When a state of ignition relay having built-in does not agree with a state of Ignition switch signal input by a CAN communication from BCM, IPDM E/R lets tail lamp relay operate.

Ignition switch signal	Ignition relay status	Tail lamp relay and daytime light relay ^{*1}
ON	ON	—
OFF	OFF	—
ON	OFF	—
OFF	ON	ON (10 minutes)

NOTE:

- When the ignition switch is turned ON, tail lamp relay and daytime light relay are OFF.
- *1: Canada model only

CONSULT-II Function (IPDM E/R)

NKS000E8

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

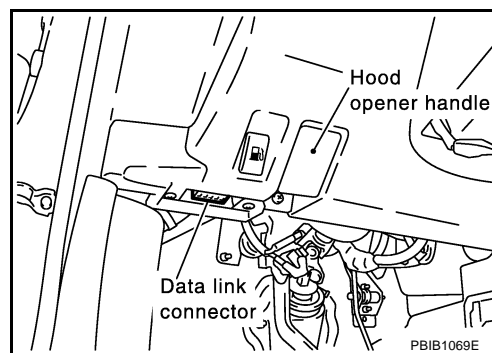
Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of the CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication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

CONSULT-II BASIC OPERATION

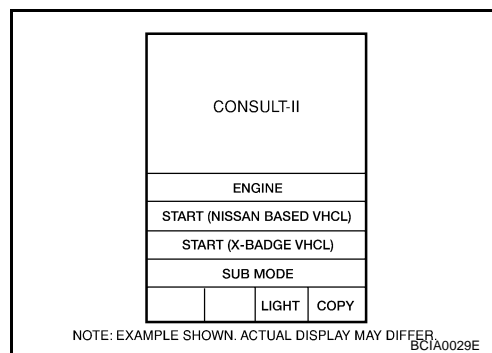
CAUTION:

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.

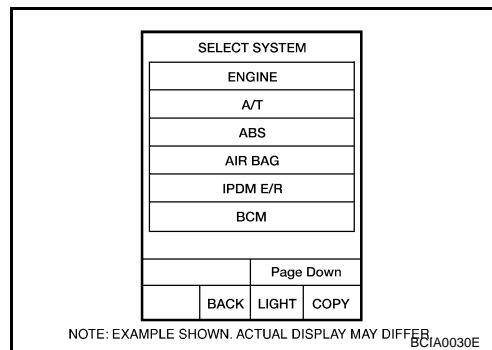
1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn the ignition switch ON.



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

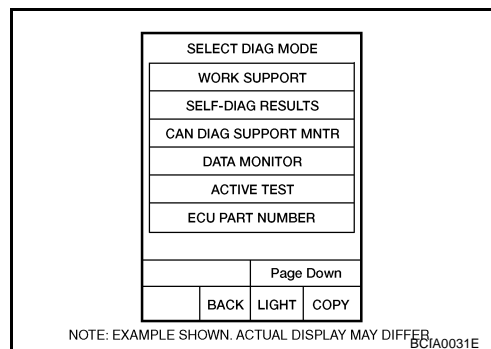


3. Touch "IPDM E/R" on "SELECT SYSTEM" screen. If "IPDM E/R" is not displayed, refer to [GI-39, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#).



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

4. Select the desired part to be diagnosed on the “SELECT DIAG MODE” screen.



SELF-DIAG RESULTS

Operation Procedure

1. Touch “SELF-DIAG RESULTS” on “SELECT DIAG MODE” screen.
2. Check display content in self-diagnosis results.

Display Item List

Display Items	CONSULT-II display code	Malfunction detecting 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 a malfunction, or if any of the control units malfunction, data reception/transmission cannot be confirmed. ● When the data in CAN communication is not received before the specified time 	×	×	Any of or several items below have errors. <ul style="list-style-type: none"> ● TRANSMIT DIAG ● ECM ● BCM

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 memorized with IPDM E/R.

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

DATA MONITOR

Operation Procedure

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

ALL SIGNALS	All items will be monitored.
MAIN SIGNALS	Monitor the predetermined item.
SELECTION FROM MENU	Select any item for monitoring.

3. Touch the required monitoring item on "SELECTION FROM MENU". In "ALL SIGNALS", all items are monitored. In "MAIN SIGNALS", predetermined items are monitored.
4. Touch "START".
5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

All Items, Main Items, Selection From Menu

Item name	CONSULT-II screen display	Display or unit	SELECT MONITOR ITEM			Description
			ALL SIG-NALS	MAIN SIG-NALS	SELEC-TION FROM MENU	
Motor fan request	MOTOR FAN REQ	1/2/3/4	×	×	×	Signal status input from ECM
Compressor request	AC COMP REQ	ON/OFF	×	×	×	Signal status input from ECM
Parking request	TAIL&CLR REQ	ON/OFF	×	×	×	Signal status input from BCM
H/L LO request	HL LO REQ	ON/OFF	×	×	×	Signal status input from BCM
H/L HI request	HL HI REQ	ON/OFF	×	×	×	Signal status input from BCM
Front fog request	FR FOG REQ* ¹	ON/OFF	×	×	×	—
Head lamp washer request	HL WASHER REQ* ¹	ON/OFF	×		×	—
Front wiper request	FR WIP REQ	STOP/1LOW/LOW/HI	×	×	×	Signal status input from BCM
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	×	×	×	Output status of IPDM E/R
Wiper protection	WIP PROT	OFF/Block	×	×	×	Control status of IPDM E/R
Starter request	ST RLY REQ* ²	ON/OFF	×		×	Status of input signal
Ignition relay status	IGN RLY	ON/OFF	×	×	×	Ignition relay status monitored with IPDM E/R
Rear window defogger request	RR DEF REQ	ON/OFF	×	×	×	Signal status input from BCM
Oil pressure switch	OIL P SW* ¹	OPEN/CLOSE	×		×	—
Day time light request	DTRL REQ* ³	ON/OFF	×		×	Signal status input from BCM
Hood switch	HOOD SW* ¹	ON/OFF	×		×	—
Theft warning horn request	THFT HRN REQ	ON/OFF	×		×	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	×		×	Output status of IPDM E/R

NOTE:

- Perform monitoring of IPDM E/R data with the ignition switch ON. When the ignition switch is at ACC, the display may not be correct.
- *1: This items is displayed, but does not function.
- *2: The vehicle without intelligent key system displays only ON without change.
- *3: Only the vehicle with daytime light system operates.

ACTIVE TEST

Operation Procedure

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

Test item	CONSULT-II screen display	Description
Tail lamp operation	TAIL LAMP	With a certain ON-OFF operation, the tail lamp relay can be operated.
Rear window defogger operation	REAR DEFOGGER	With a certain ON-OFF operation, the rear window defogger relay can be operated.
Front wiper (HI, LO) operation	FRONT WIPER	With a certain operation (OFF, HI ON, LO ON), the front wiper relay (Lo, Hi) can be operated.
Cooling fan operation	MOTOR FAN	With a certain operation (1,2,3,4), the cooling fan can be operated.
Headlamp washer ^{NOTE 1}	HEAD LAMP WASHER	—
Lamp (HI, LO, FOG ^{NOTE 2}) operation	LAMPS	With a certain operation (OFF, HI ON, LO ON, FOG ON ^{NOTE}), the lamp relay (Lo, Hi, Fog ^{NOTE}) can be operated.
Horn operation	HORN	Push "ON" button, horn relay operates 20 ms.

NOTE:

1. Headlamp washer item is displayed, but it cannot be tested.
2. Fog lamp item is displayed, but it cannot be tested.

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Auto Active Test DESCRIPTION

NKS000E9

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
- Parking lamp, license plate lamp and tail lamp
- Headlamps (Hi, Lo)
- A/C compressor (magnetic clutch)
- Cooling fan

OPERATION PROCEDURE

1. Close hood and front door (passenger side), and then 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 driver's front door switch 10 times (close other door). 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. Oil pressure warning lamp starts blinking.
6. After a series of operations is repeated three times, auto active test is completed.

NOTE:

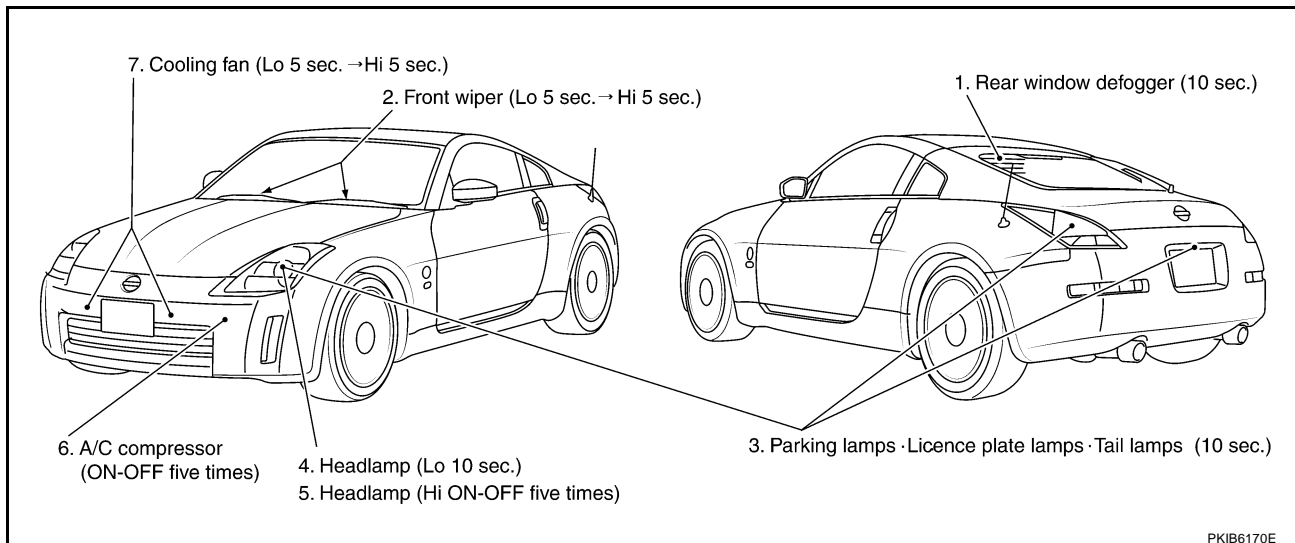
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to inspect **BL-39, "Check Door Switch"** when the auto active test cannot be performed.

INSPECTION IN AUTO ACTIVE TEST MODE

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



NOTE:

It takes 10 seconds from 3 to 4.

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

Concept of Auto Active Test

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

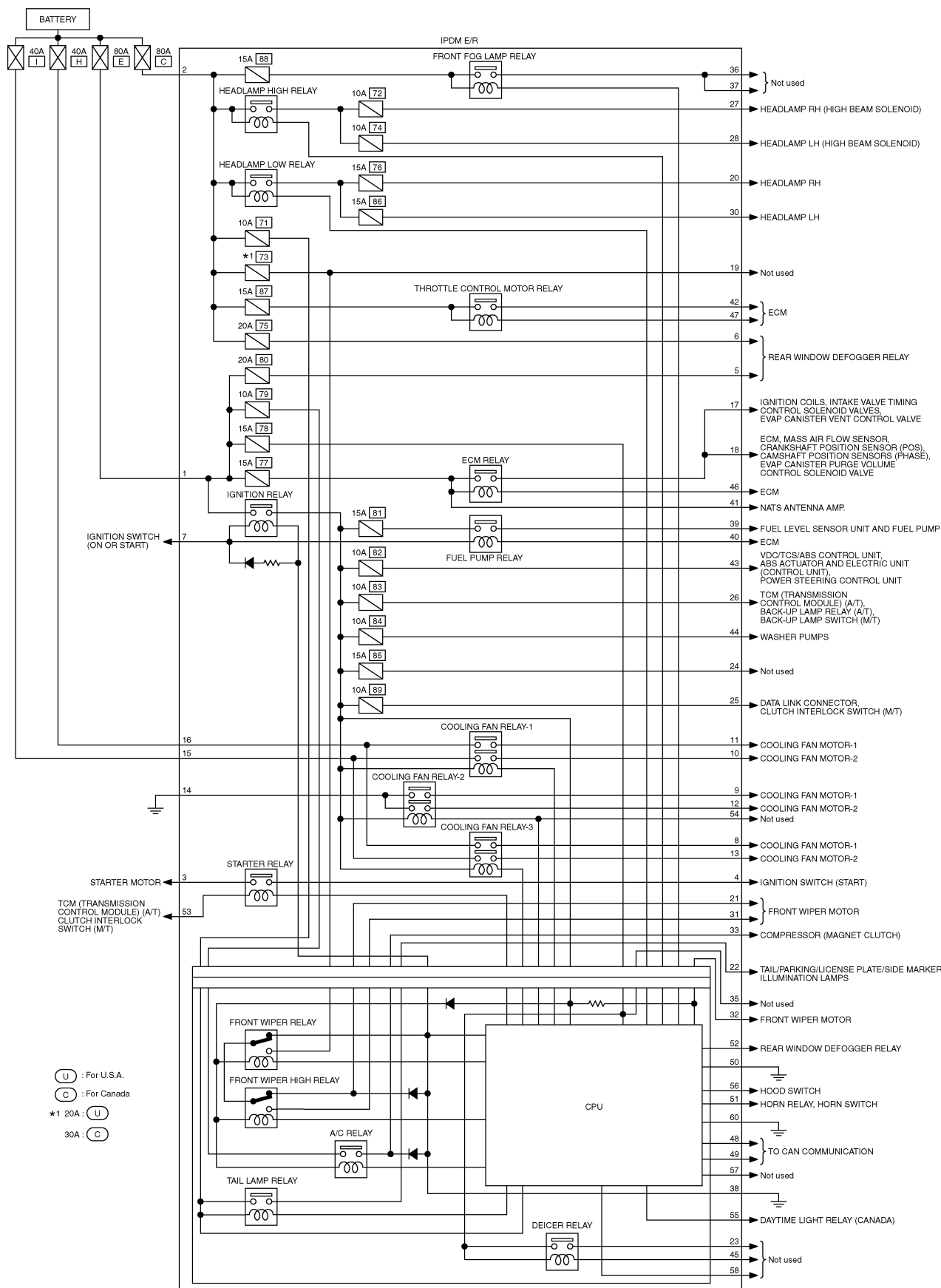
Diagnosis chart in auto active test mode

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

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

Schematic

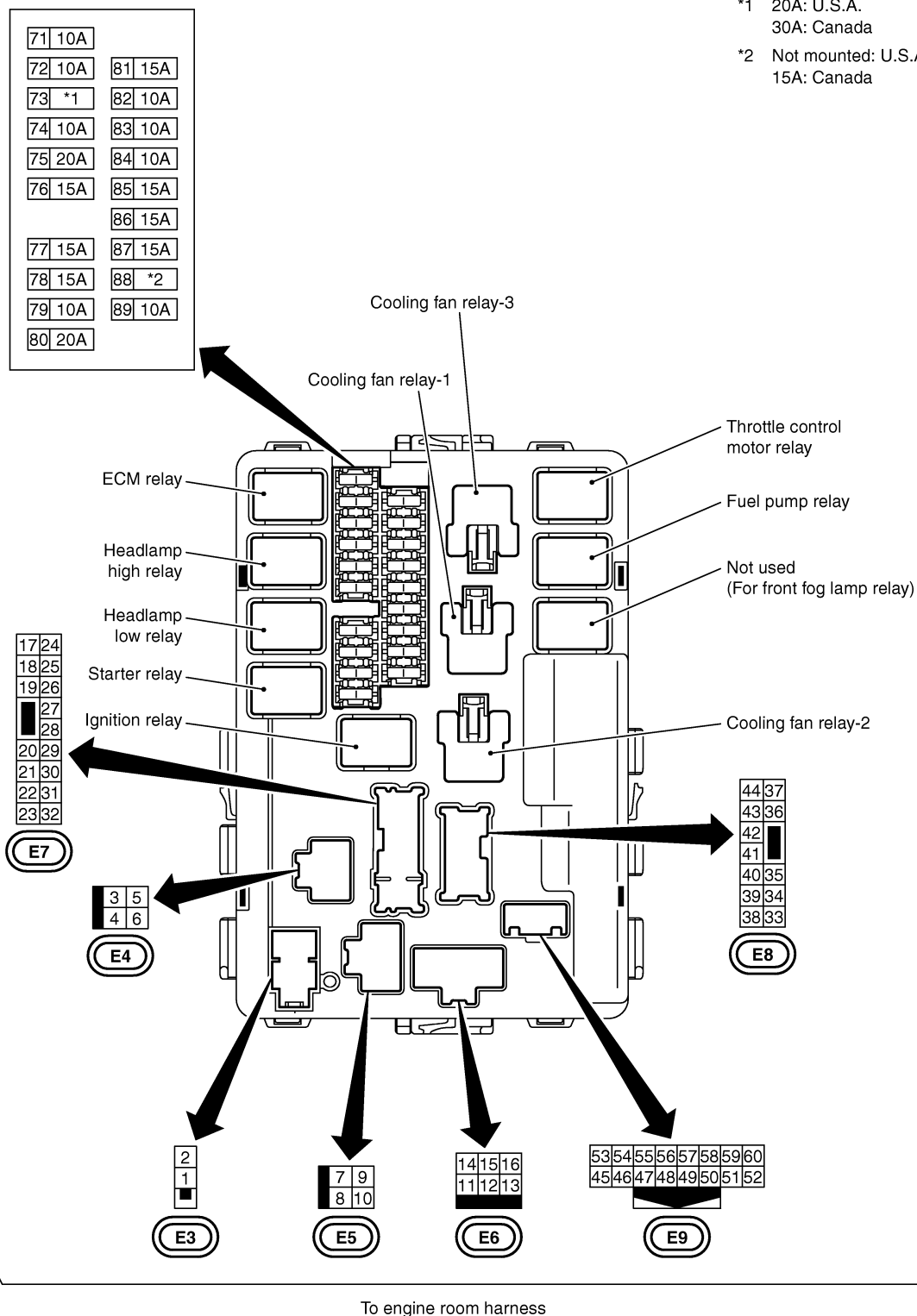
NKS000EA



TKWT4112E

IPDM E/R Terminal Arrangement

NKS000EB



CKIT0727E

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

IPDM E/R Power/Ground Circuit Inspection

NKS000EC

1. CHECK FUSE AND FUSIBLE LINK

Make sure the following fusible links or IPDM E/R fuses are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
1, 2	Battery power	C
		E
		71
		78

OK or NG

OK >> GO TO 2.

NG >> If fuse or fusible link is blown, be sure to eliminate cause of malfunction before installing new fuse or fusible link.

2. CHECK POWER SUPPLY CIRCUIT

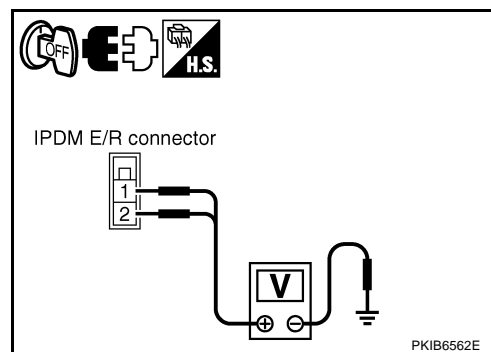
1. Turn ignition switch OFF.
2. Disconnect IPDM E/R harness connector E3.
3. Check voltage between IPDM E/R harness connector E3 terminals 1, 2 and ground.

1, 2 – Ground : Battery voltage

OK or NG

OK >> GO TO 3.

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



3. CHECK GROUND CIRCUIT

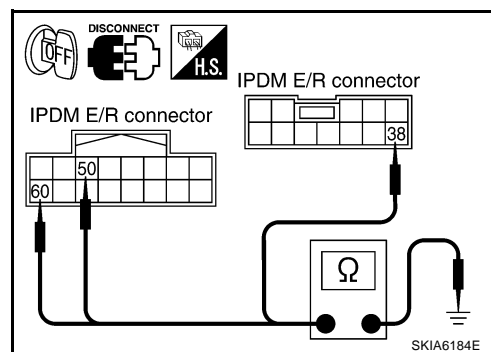
1. Disconnect IPDM E/R harness connectors E8 and E9.
2. Check continuity between IPDM E/R harness connectors E8 terminal 38, E9 terminal 50, 60 and ground.

38, 50, 60 – 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)

NKS000ED

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. CHECK SELF DIAGNOSTIC RESULT

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

CONSULT-II display	CONSULT-II display code	TIME		Details of diagnosis result
		CRNT	PAST	
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	—	—	—	No malfunction
CAN COMM CIRC	U1000	×	×	Any of or several items below have errors. ● TRANSMIT DIAG ● ECM ● BCM

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 memorized with IPDM E/R.

Contents displayed

NO DTC IS DETECTED.FURTHER TESTING MAY BE REQUIRED.>>INSPECTION END

CAN COMM CIRC>>After print-out of the monitor items, refer to [LAN-3, "Precautions When Using CONSULT-II"](#) .

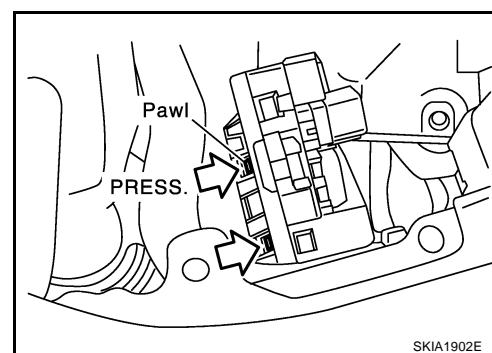
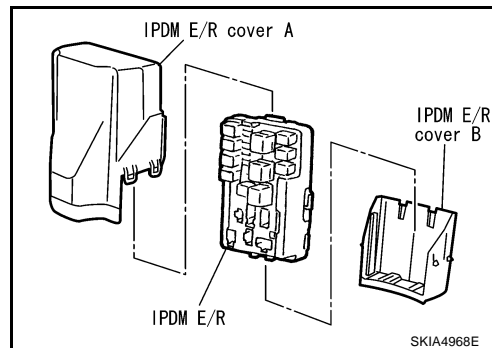
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Removal and Installation of IPDM E/R

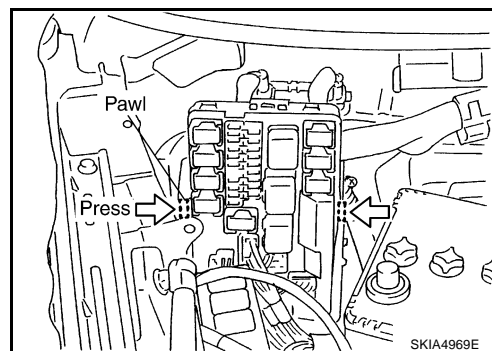
NKS000EE

REMOVAL

1. Remove battery. Refer to [SC-9, "Removal and Installation"](#) in "Starting and Charging System (SC)" section.
2. Remove IPDM E/R cover A. While pressing pawl on backside of IPDM E/R cover B toward vehicle front to unlock, lift up IPDM E/R.



3. While pressing pawls on right and left side of IPDM E/R, remove IPDM E/R cover B from IPDM E/R.
4. Remove harness connector from IPDM E/R.



INSTALLATION

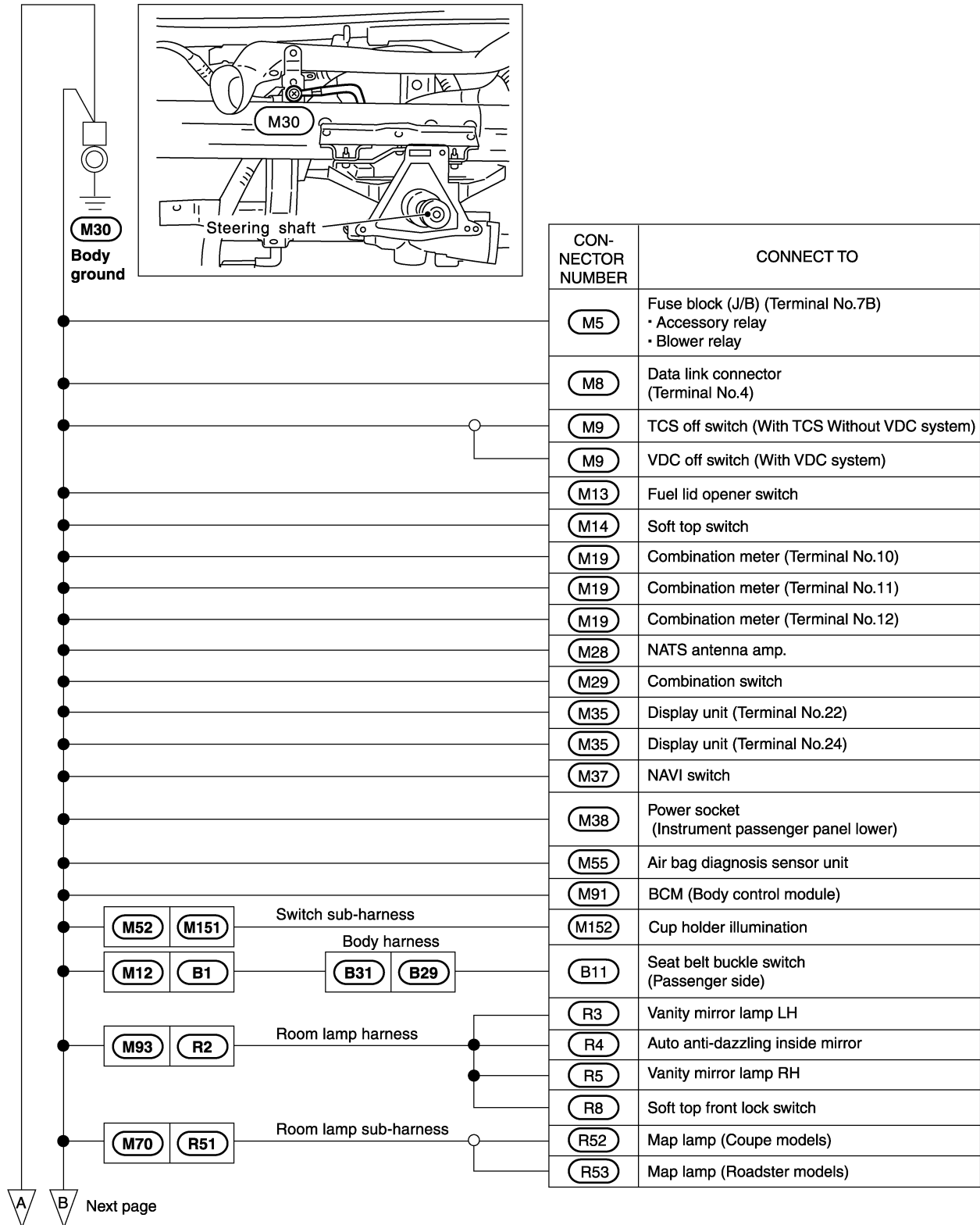
Installation is the reverse order of removal.

GROUND

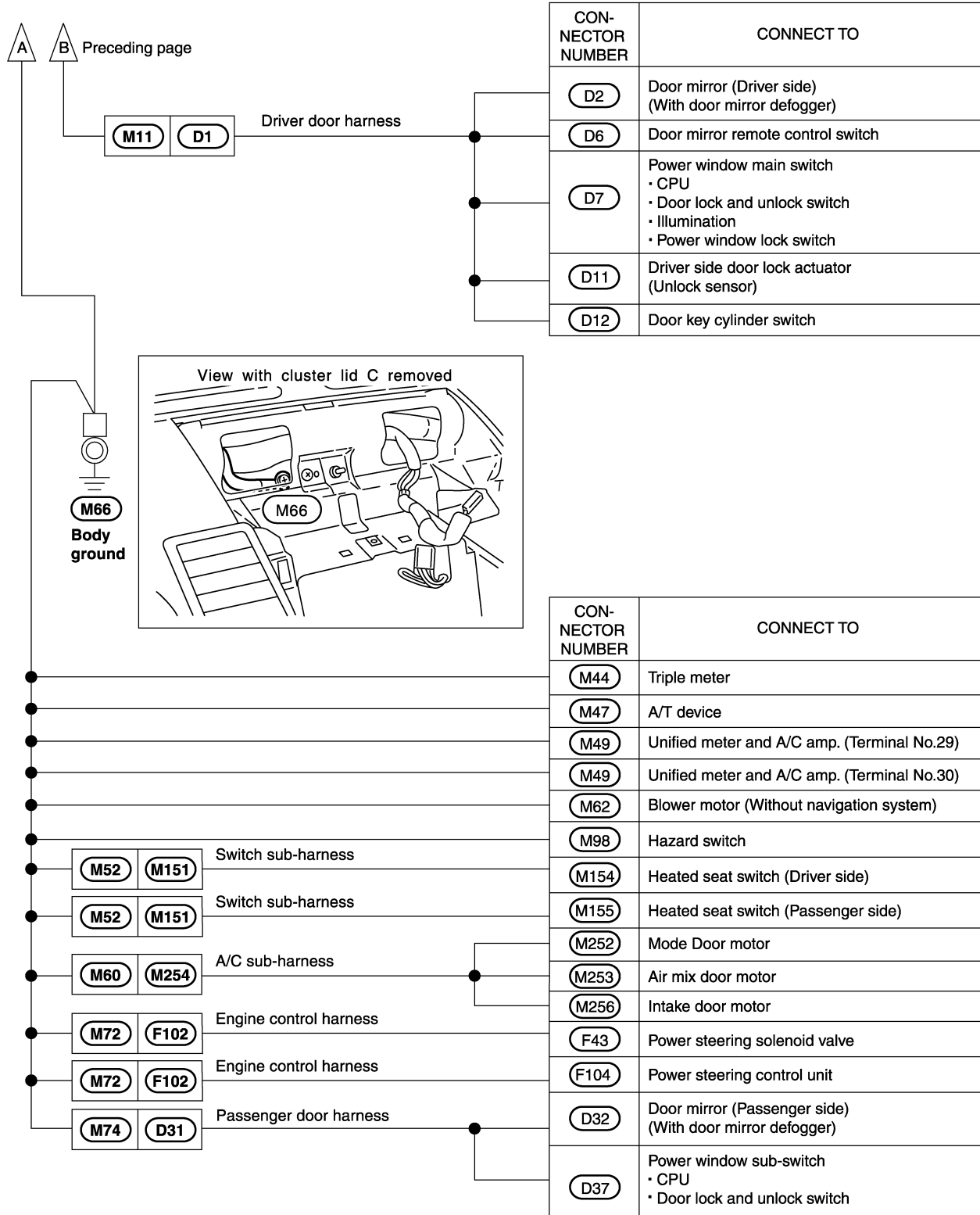
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Ground Distribution
MAIN HARNESS

NKS000EF



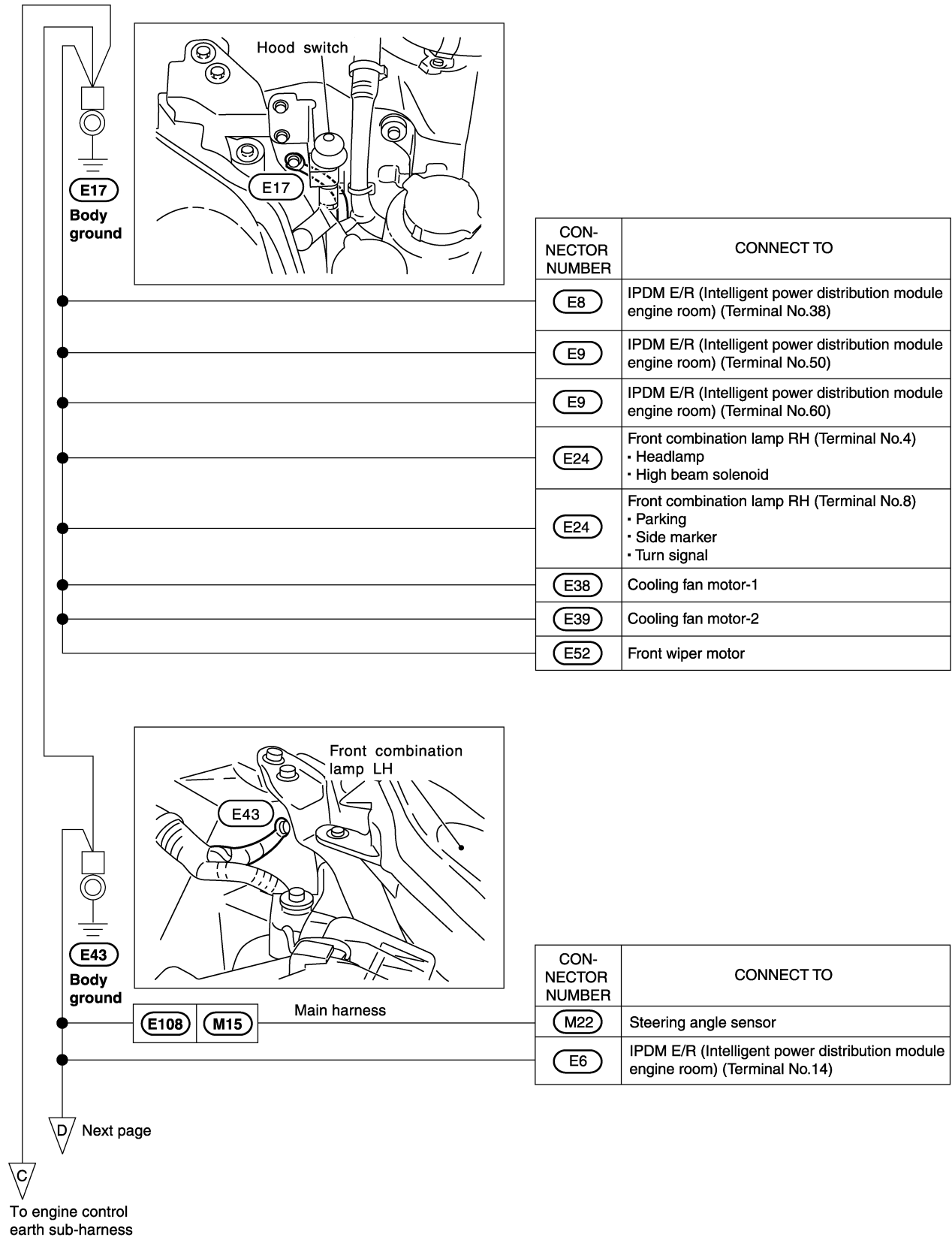
GROUND



CKIT0729E

GROUND

ENGINE ROOM HARNESS



CKIT0730E

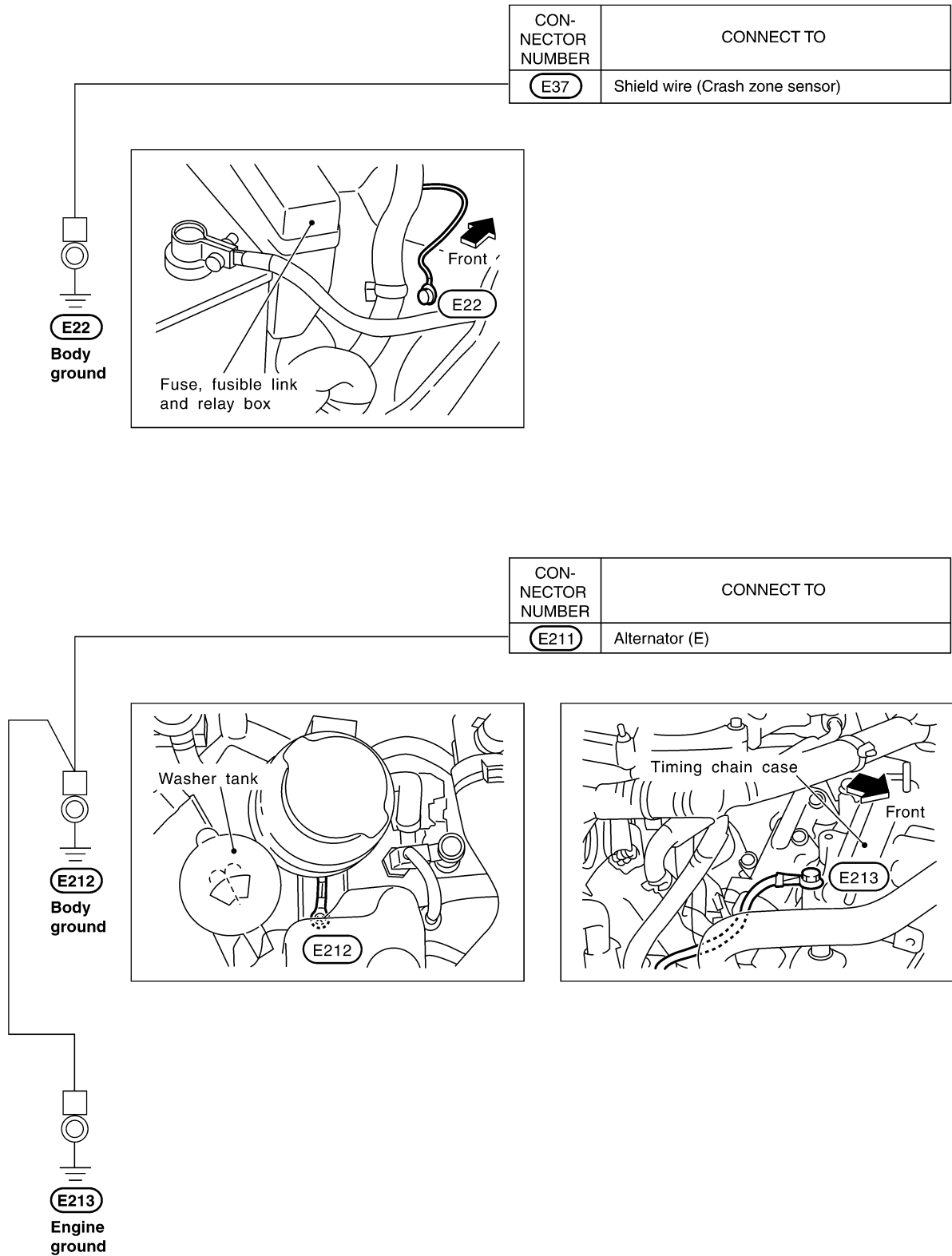
GROUND

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	CON- NECTOR NUMBER	CONNECT TO
•	(E23)	Hood switch
•	(E30)	Washer level sensor
•	(E33)	Horn (Low)
•	(E36)	Horn (High)
•	(E40)	Front combination lamp LH (Terminal No. 4) • Headlamp • High beam solenoid
•	(E40)	Front combination lamp LH (Terminal No. 8) • Parking • Side marker • Turn signal
•	(E44)	Brake fluid level switch
•	(E51)	ABS actuator and electric unit (Terminal No. 16)
•	(E51)	ABS actuator and electric unit (Terminal No. 30)
• (E126) (E127)	(E118)	VDC/TCS/ABS control unit (Terminal No. 28)
• (E126) (E127)	(E118)	VDC/TCS/ABS control unit (Terminal No. 29)
•	(E128)	Diode

CKIT0731E

GROUND

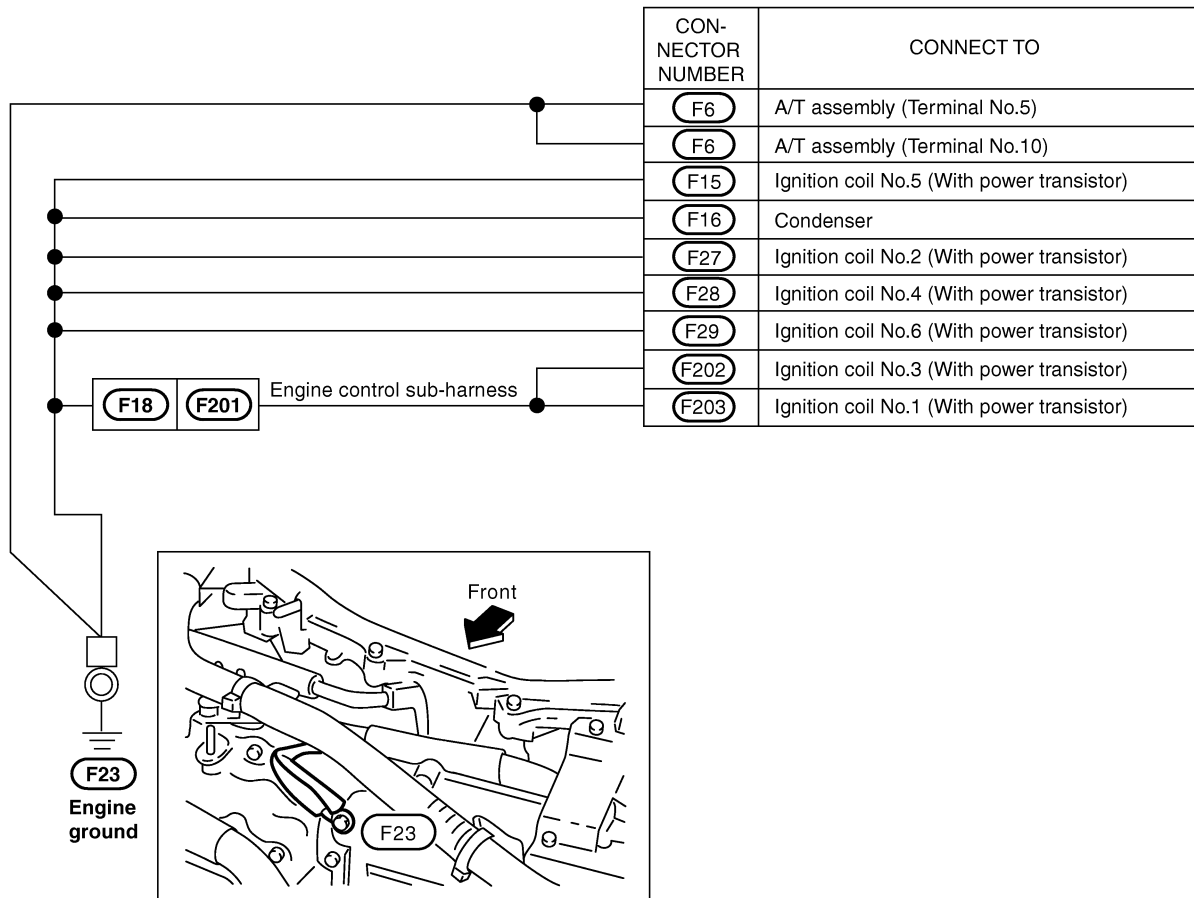


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CKIT0170E

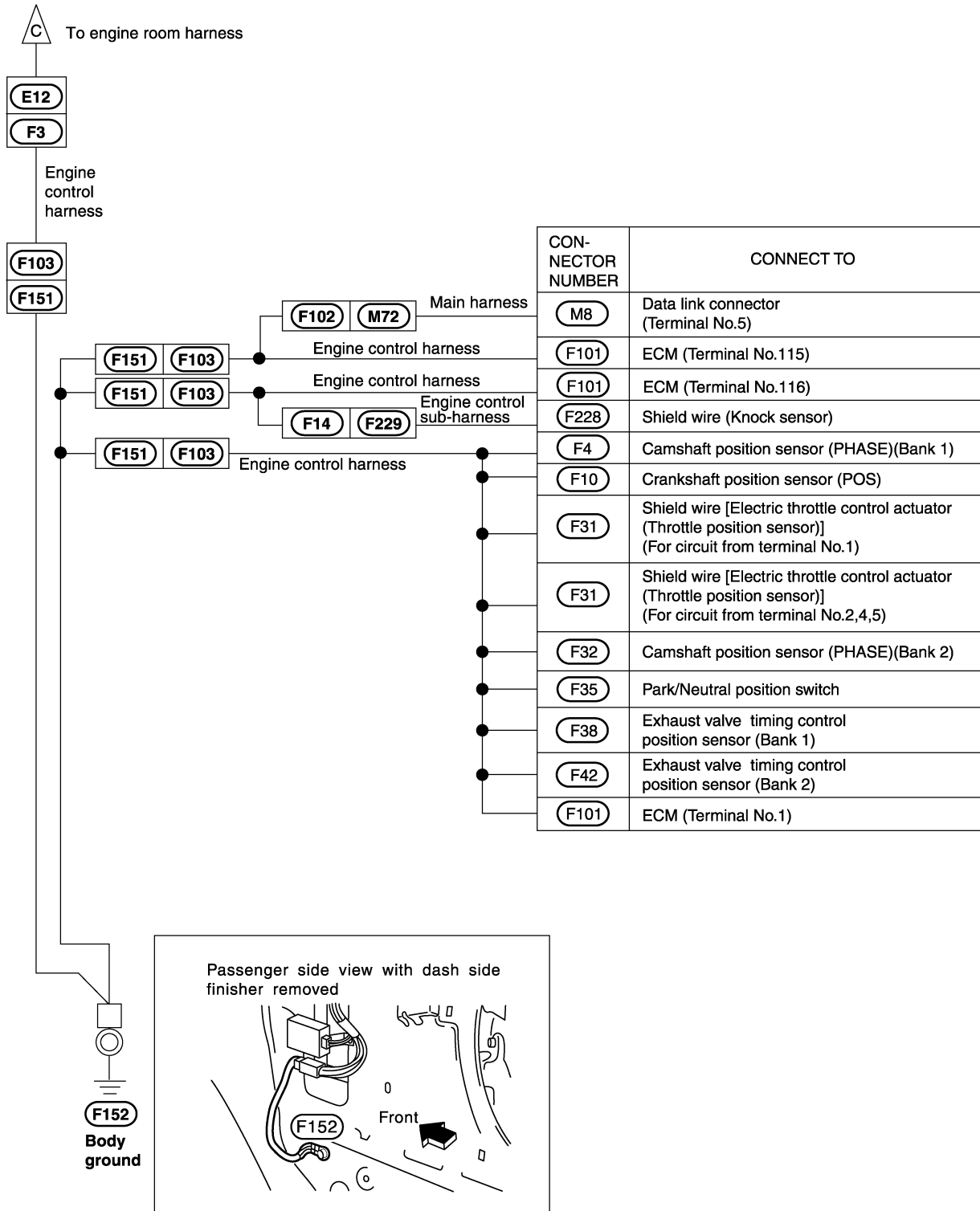
GROUND

ENGINE CONTROL HARNESS



CKIB0204E

GROUND

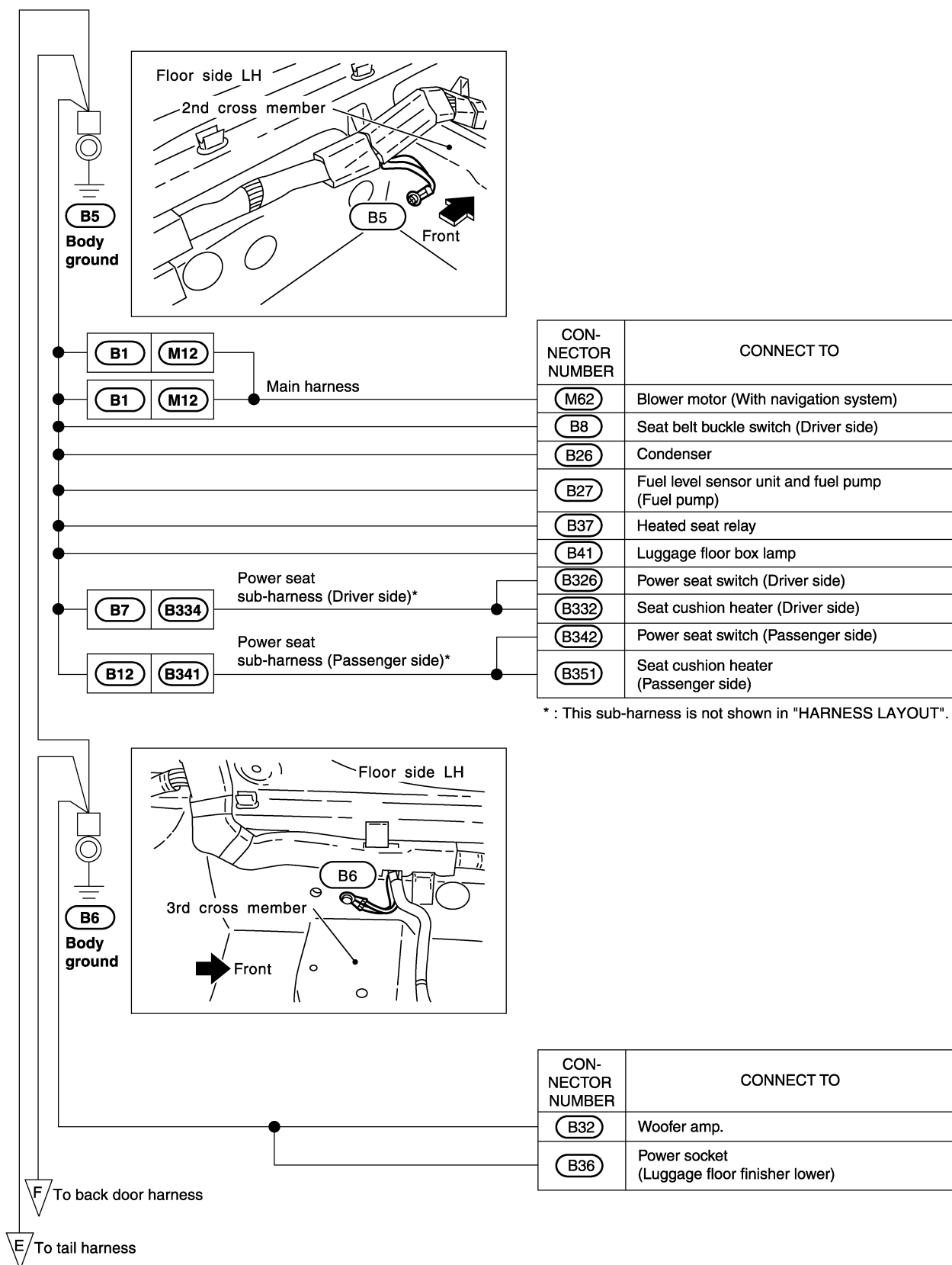


CKIT0732E

GROUND

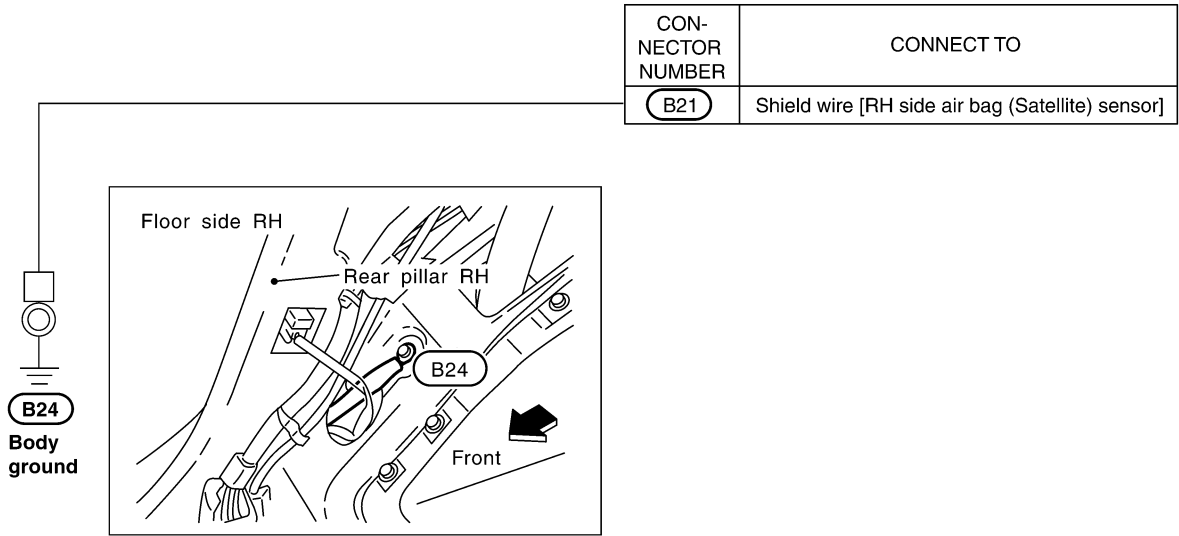
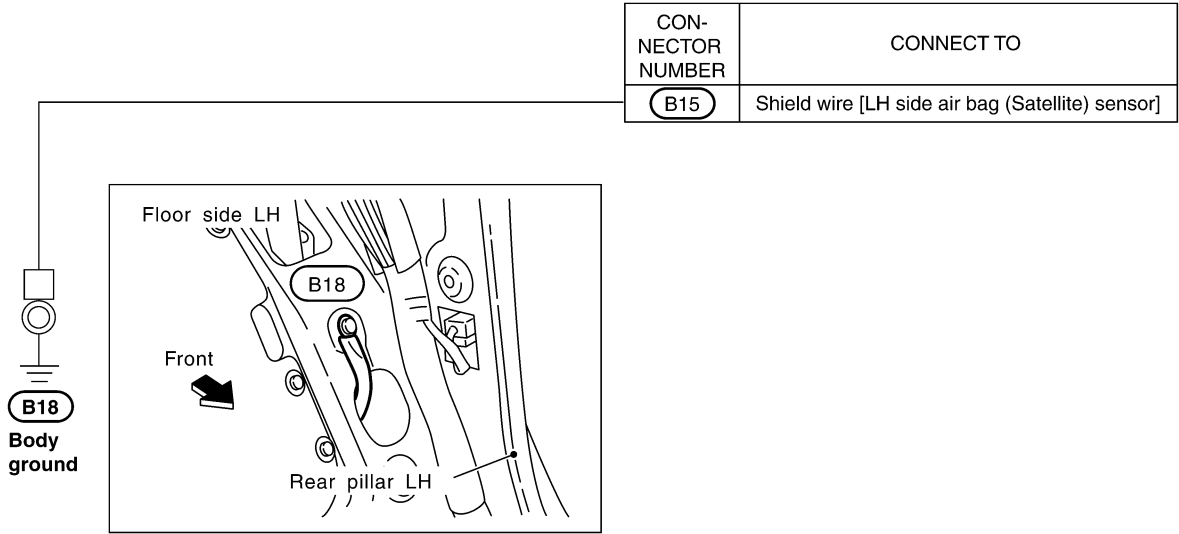
BODY HARNESS

Coupe Models



CKIT0733E

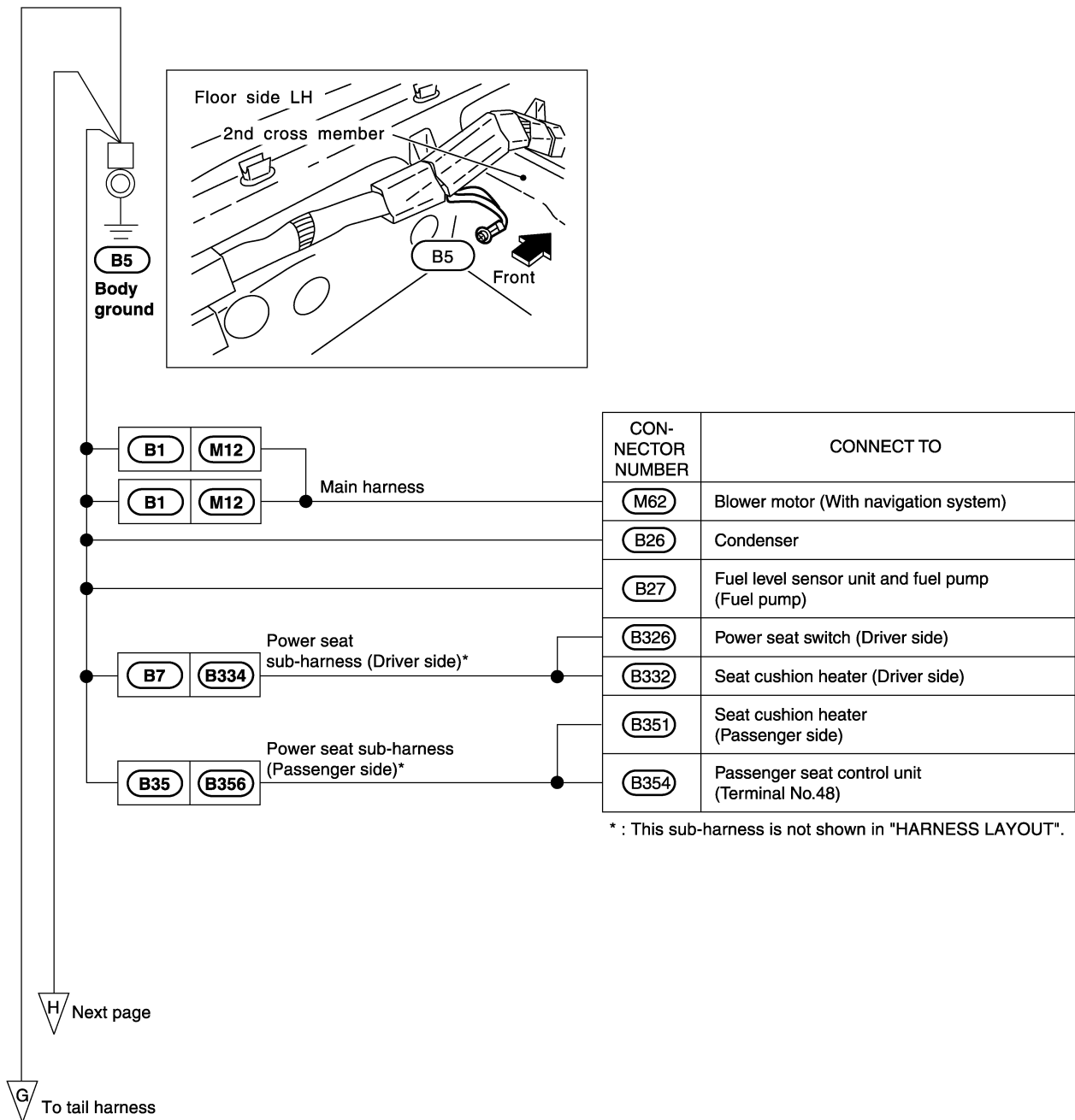
GROUND



CKIT0174E

GROUND

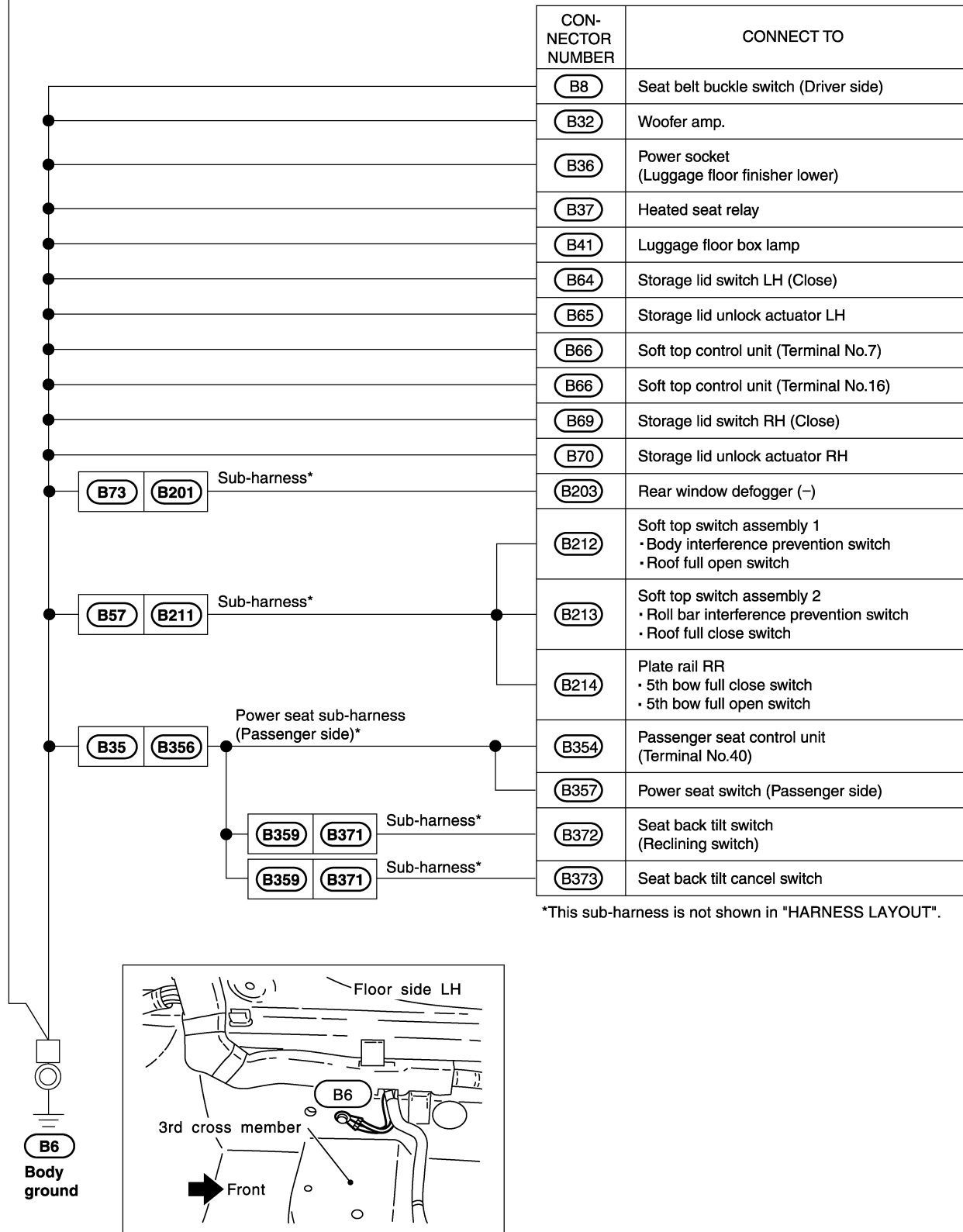
Roadster Models



CKIT0734E

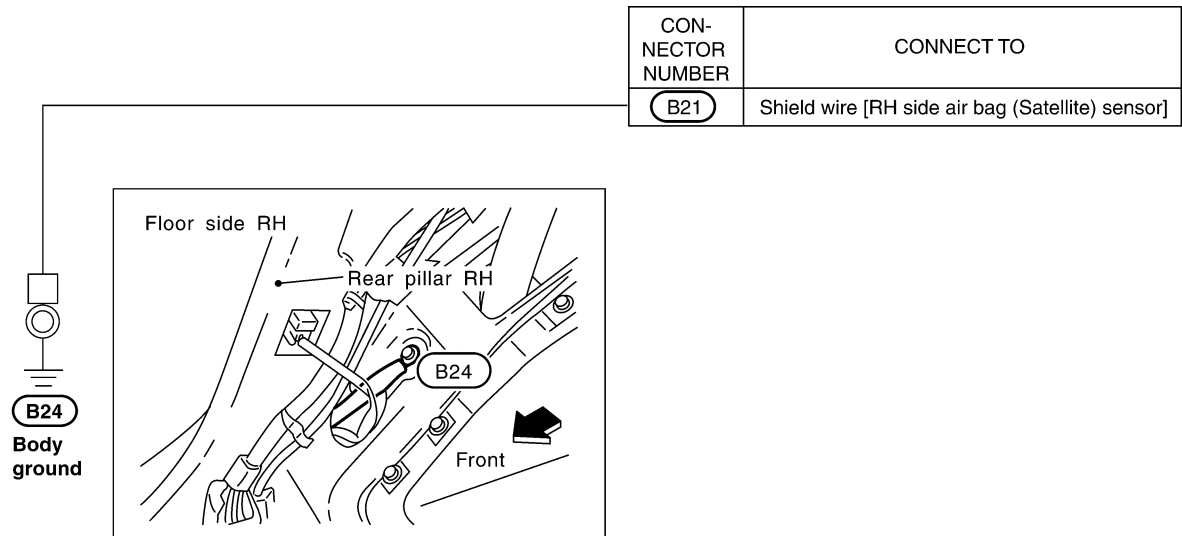
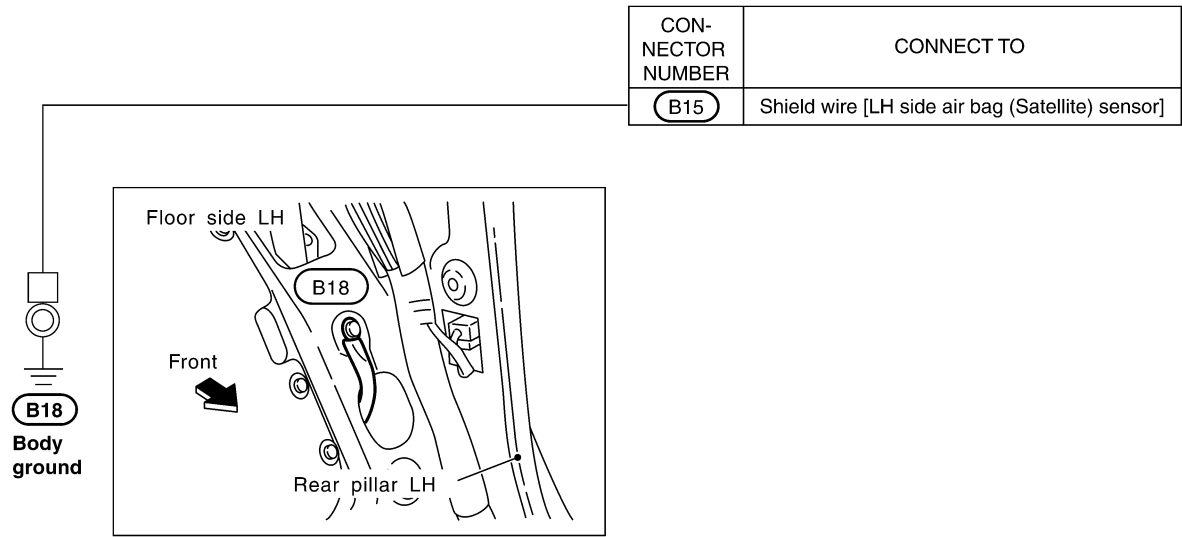
GROUND

H Preceding page



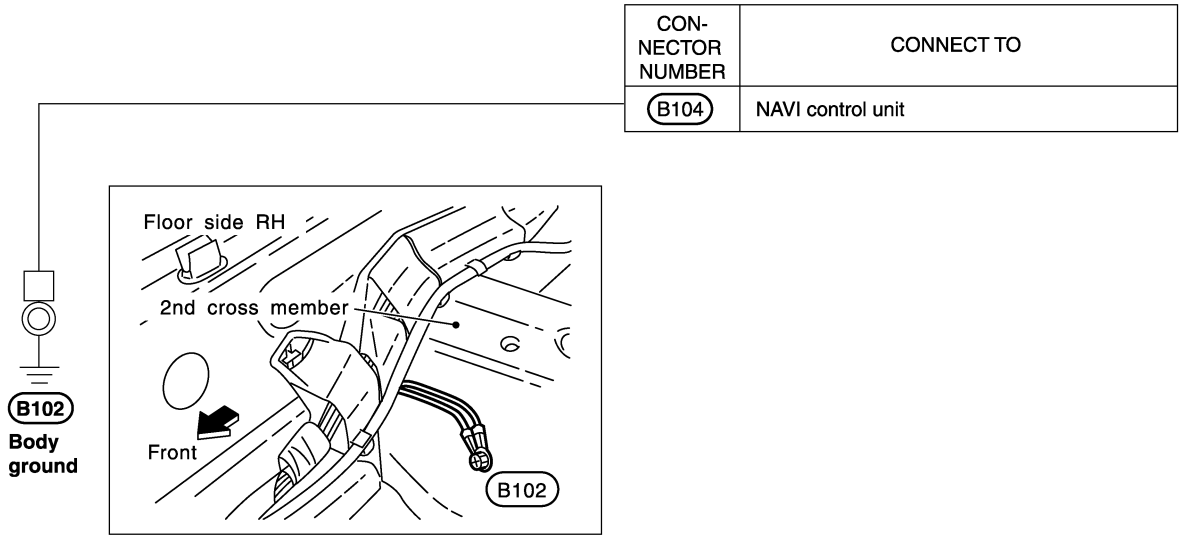
CKIT0735E

GROUND



GROUND

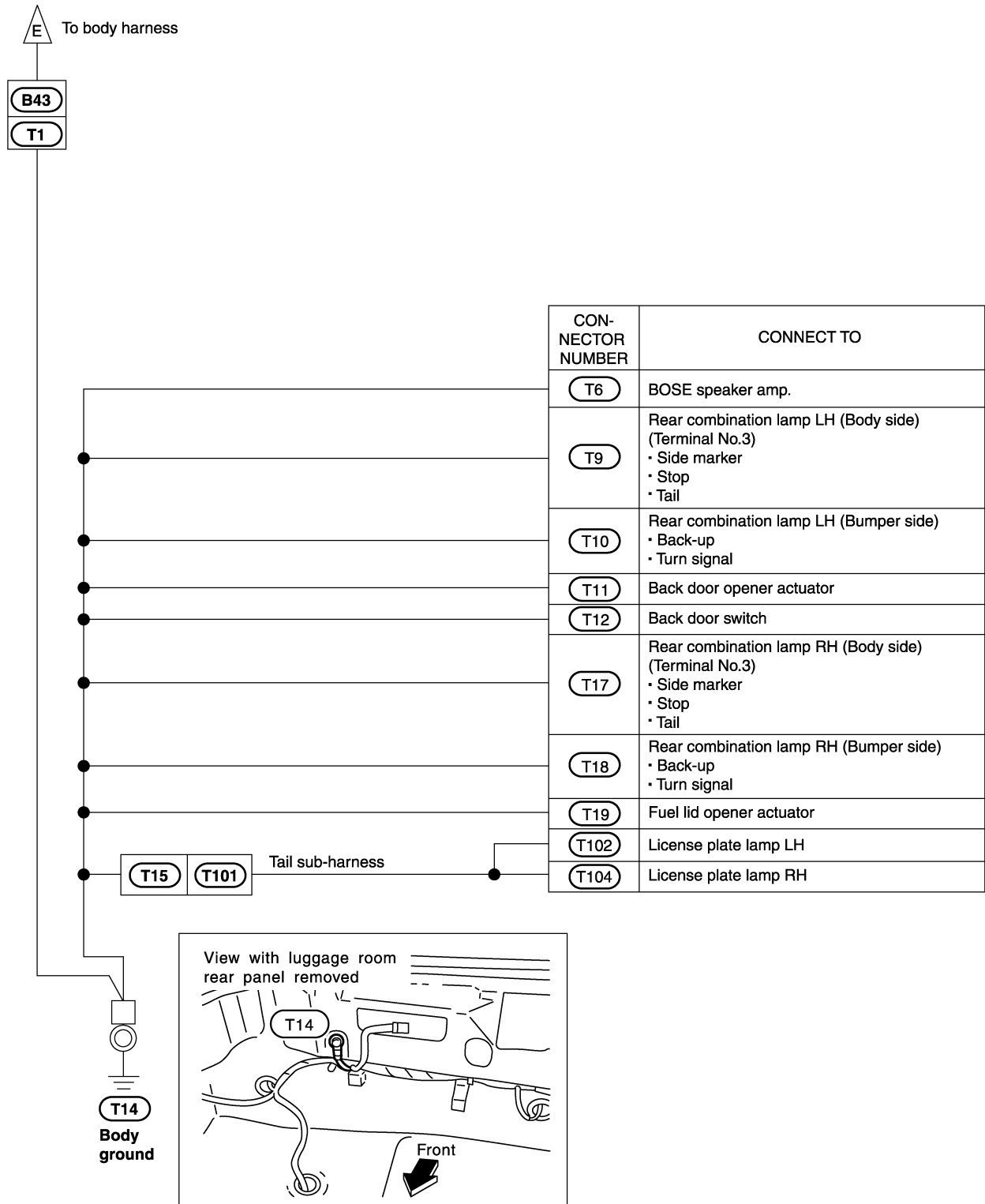
BODY NO. 2 HARNESS



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GROUND

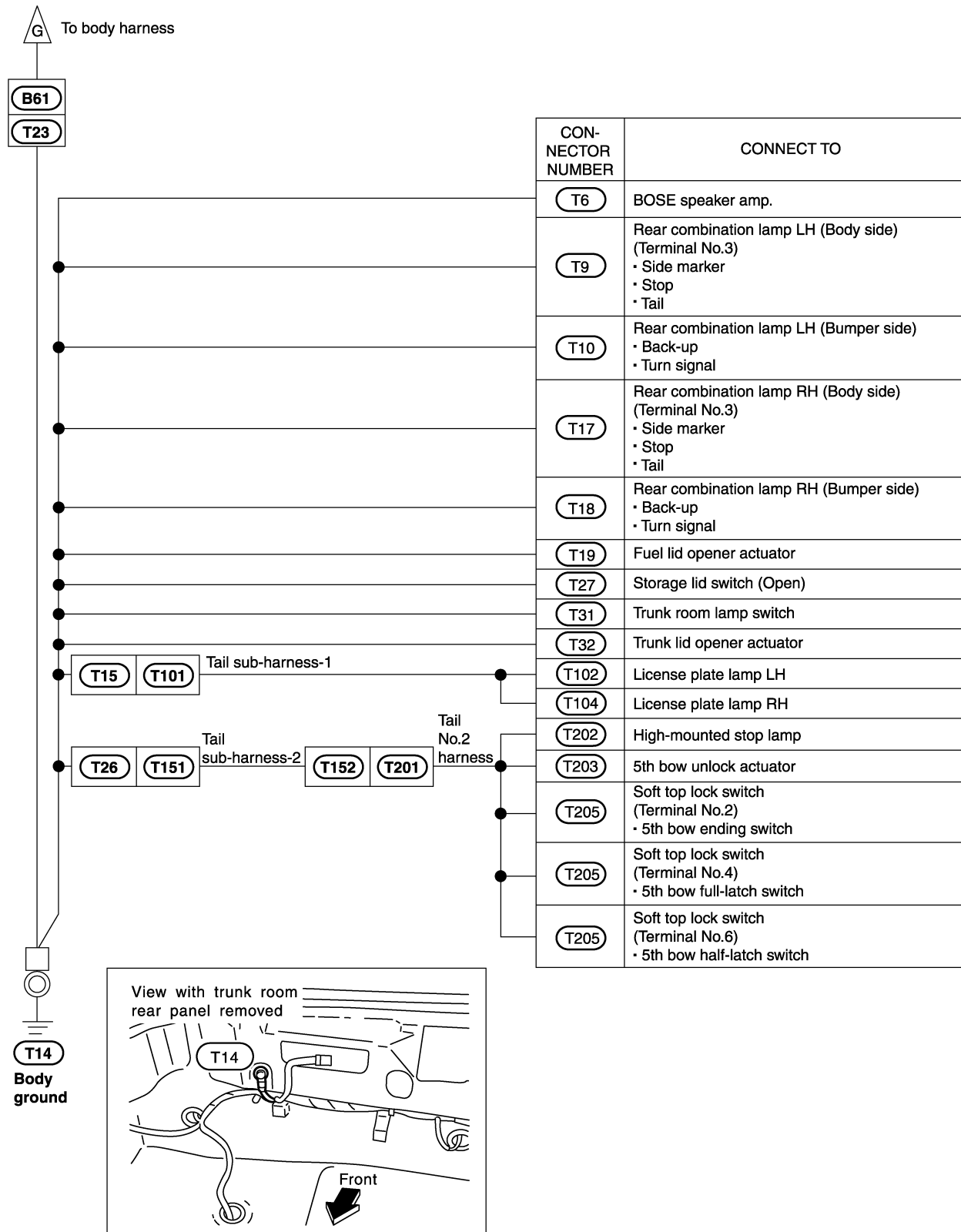
TAIL HARNESS Coupe Models



CKIT0737E

GROUND

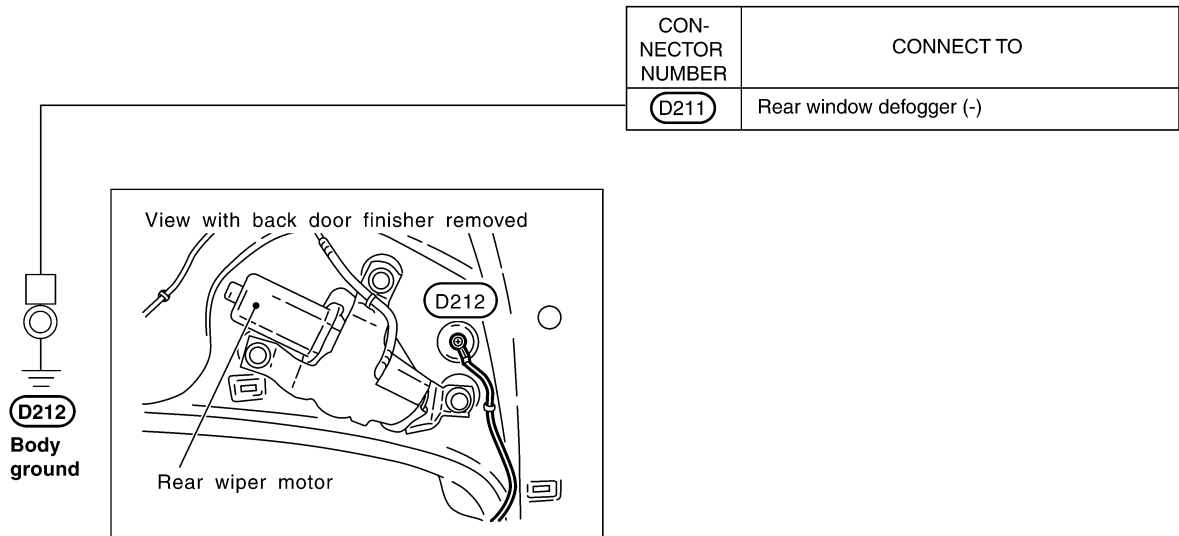
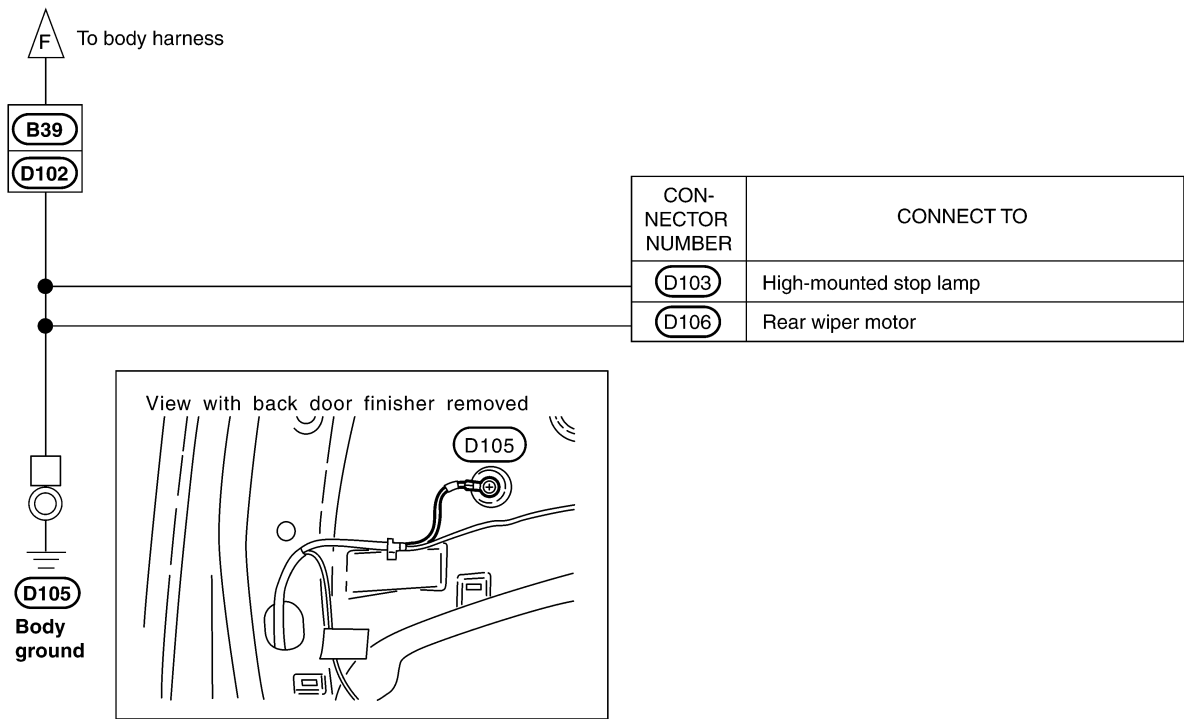
Roadster Models



CK1T0738E

GROUND

BACK DOOR HARNESS



CKIT0464E

HARNESS

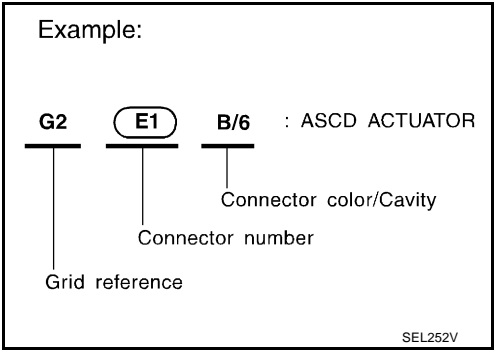
PFP:00011

Harness Layout
HOW TO READ HARNESS LAYOUT

NKS000EG

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

- Main Harness
- Engine Room Harness (Engine Compartment)
- Engine Control Harness (Engine Compartment)
- Body Harness
- Tail Harness



To Use the Grid Reference

1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the figure, 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 in the below.

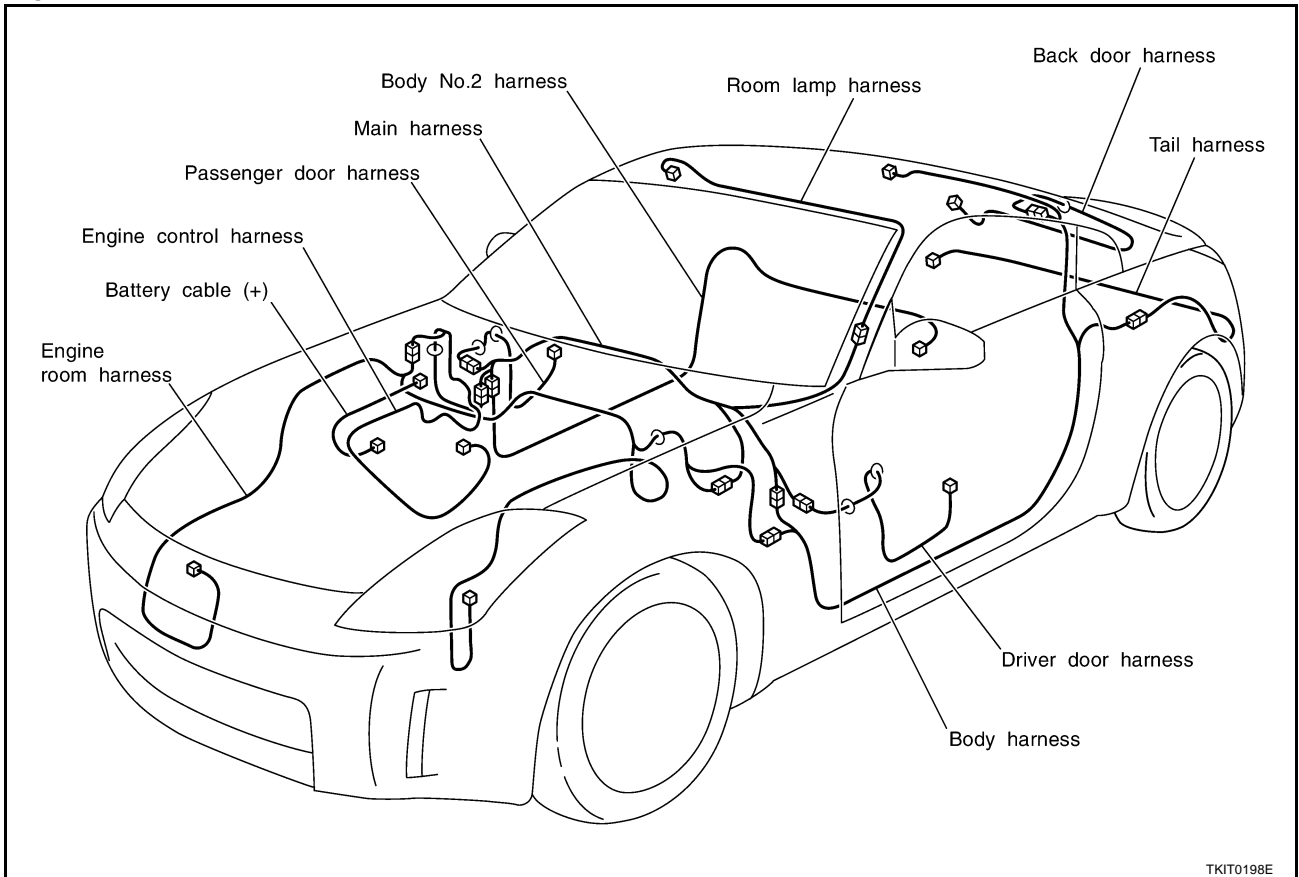
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
• Cavity: Less than 4 • Relay connector				
• Cavity: From 5 to 8				
• Cavity: More than 9				
• Ground terminal etc.	—			

CKIT0108E

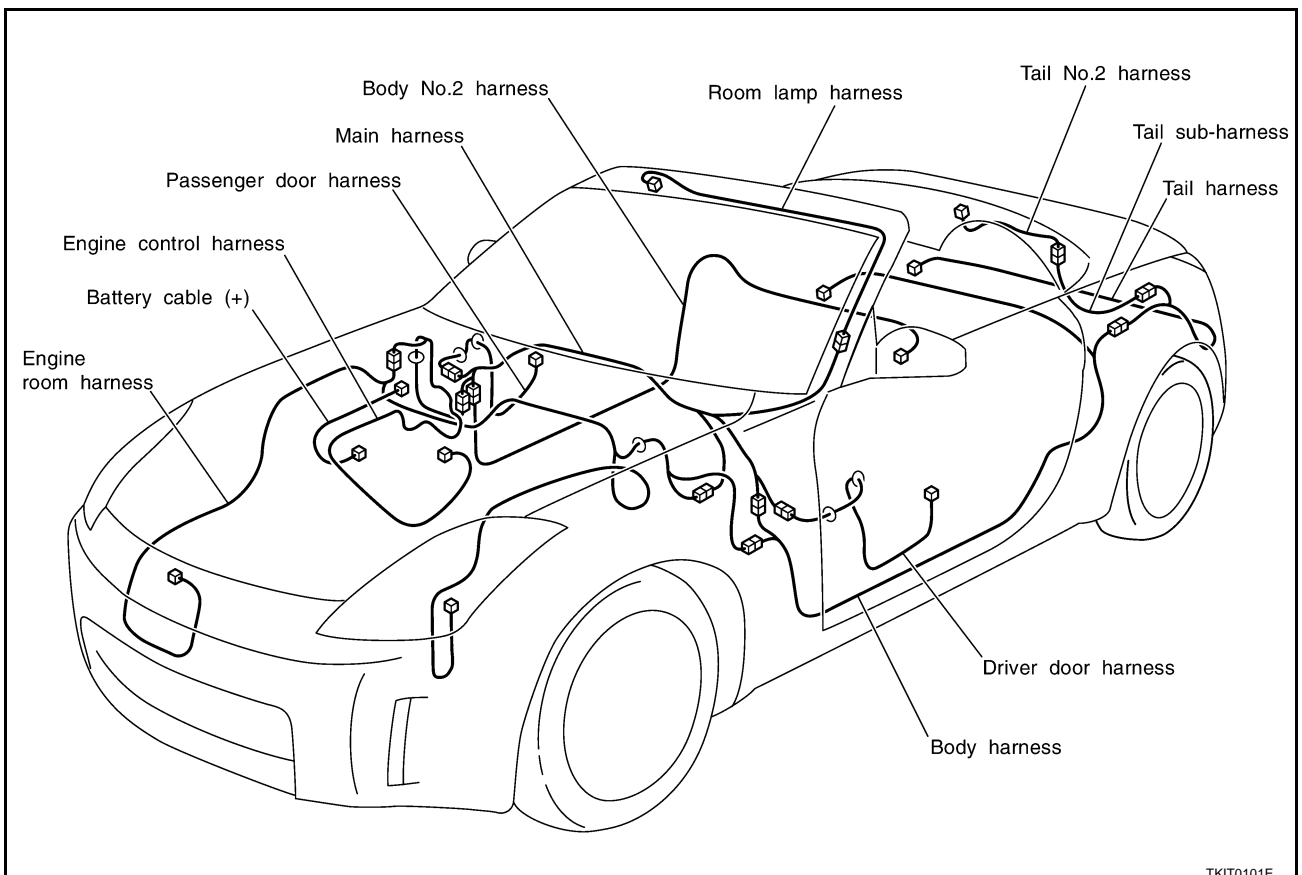
HARNESS

OUTLINE

Coupe Models

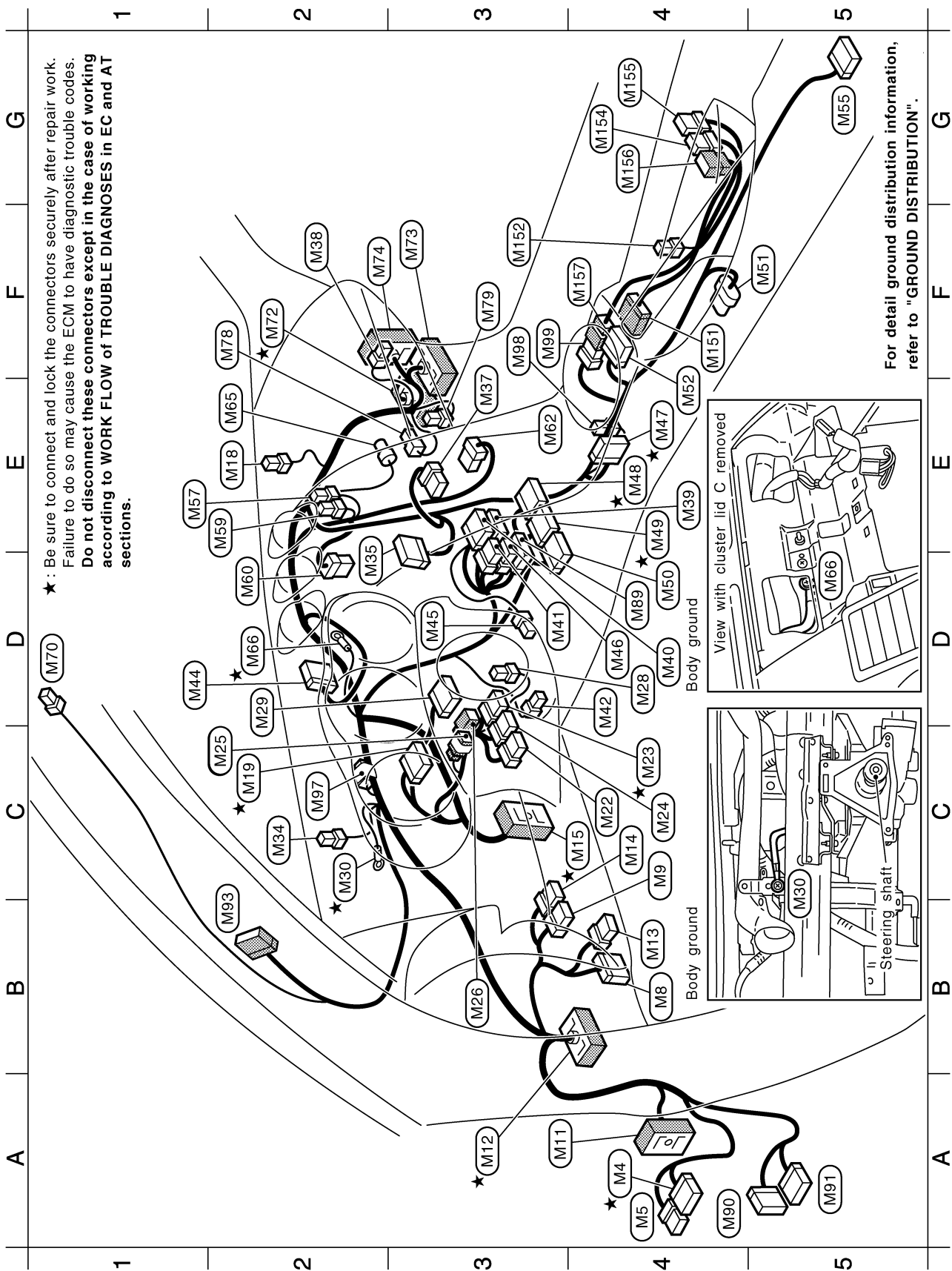


Roadster Models



HARNESS

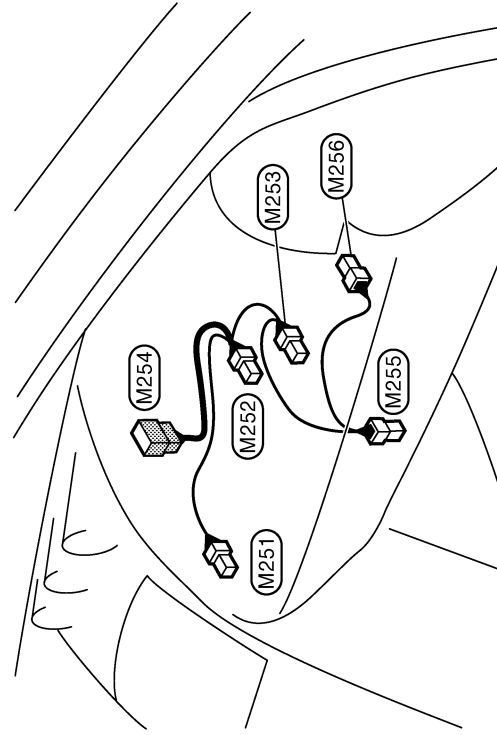
MAIN HARNESS



A4 ★	(M4)	W/16	: Fuse block (J/B)	E2	(M59)	L/4	: Fuel lid opener relay (For Coupe models)	F4	(M151)	W/12	: To (M52)
A4	(M5)	W/8	: Fuse block (J/B)	D2	(M60)	W/6	: To (M254)	F3	(M152)	W/2	: Cup holder illumination
B4	(M8)	W/16	: Data link connector	E3	(M62)	W/6	: Blower motor	G4	(M154)	W/6	: Heated seat switch (Driver side)
C4	(M9)	GY/6	: VDC off switch (With VDC system)	E2	(M65)	Y/4	: Front passenger air bag module				
		GY/6	: TCS off switch (With TCS without VDC system)	D2 ★	(M66)	—	: Body ground				
A3	(M11)	SMJ	: To (D1)	D1	(M70)	W/4	: To (R51)	G4	(M155)	BR/6	: Heated seat switch (Passenger side)
A3 ★	(M12)	SMJ	: To (B1)	F2 ★	(M72)	SMJ	: To (F102)				
B4	(M13)	GY/6	: Fuel lid opener switch	F3	(M73)	SMJ	: To (B101)				
C4	(M14)	W/6	: Soft top switch (For Roadster models)					G4	(M156)	W/6	: Not used
C4 ★	(M15)	SMJ	: To (E108)					F4	(M157)	W/8	: To (M99)
E2	(M18)	B/2	: Sunload sensor	F2	(M74)	SMJ	: To (D31)				
C2	(M19)	W/24	: Combination meter	F2	(M78)	W/4	: Remote keyless entry receiver				
C4	(M22)	W/8	: Steering angle sensor (For VDC system)	F3	(M79)	W/2	: Tire pressure warning check connector				
C4 ★	(M23)	GY/8	: Combination switch (Spiral cable)	D4	(M89)	W/12	: Audio unit (With BOSE system)				
C4	(M24)	Y/6	: Combination switch (Spiral cable)	A4	(M90)	W/40	: BCM (Body control module)				
C2	(M25)	BR/2	: Key switch	A5	(M91)	B/15	: BCM (Body control module)				
B3	(M26)	W/2	: Ignition Keyhole illumination	B2	(M93)	W/12	: To (R2)				
D4	(M28)	W/4	: NATS antenna amp.	C2	(M97)	-/2	: Resistor				
D2	(M29)	W/16	: Combination switch	F3	(M98)	W/4	: Hazard switch				
C2 ★	(M30)	—	: Body ground	F3	(M99)	W/8	: To (M157) (For heated seat)				
C2	(M34)	BR/2	: Security indicator lamp								
D2	(M35)	GY/24	: Display unit (With navigation system)								
E3	(M37)	W/8	: NAVI switch (With navigation system)								
F2	(M38)	B/2	: Power socket								
E4	(M39)	W/16	: Audio unit (For BOSE system)								
D4	(M40)	W/10	: Audio unit								
D3	(M41)	W/6	: Audio unit								
D4	(M42)	W/2	: In-vehicle sensor								
D1	(M44)	W/12	: Triple meter								
D3	(M45)	BR/2	: Antenna amp. (Via sub-harness)								
D4	(M46)	BR/8	: Audio unit								
E4 ★	(M47)	W/10	: A/T device (For A/T)								
E4 ★	(M48)	GY/20	: Unified meter and A/C amp.								
E4 ★	(M49)	GY/16	: Unified meter and A/C amp.								
D4	(M50)	W/24	: Unified meter and A/C amp.								
F5	(M51)	B/6	: Yaw rate / side G sensor (For VDC system)								
E4	(M52)	W/12	: To (M15)								
G5	(M55)	Y/28	: Air bag diagnosis sensor unit								
E1	(M57)	L/4	: Back-up lamp relay (For A/T)								

Switch sub-harness

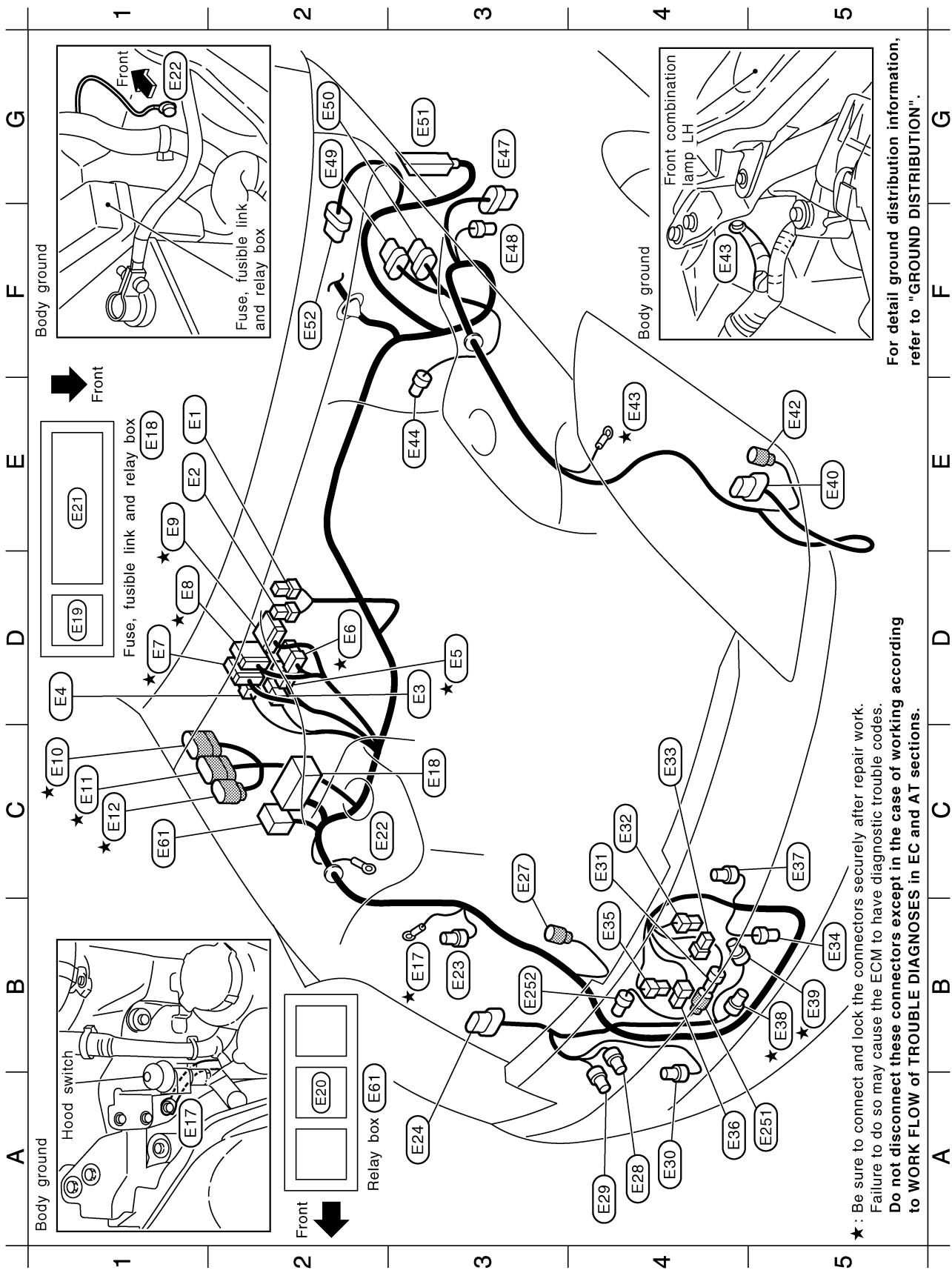
A/C sub-harness



★ : 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.

TKIT0548E

ENGINE ROOM HARNESS
Engine Compartment



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

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

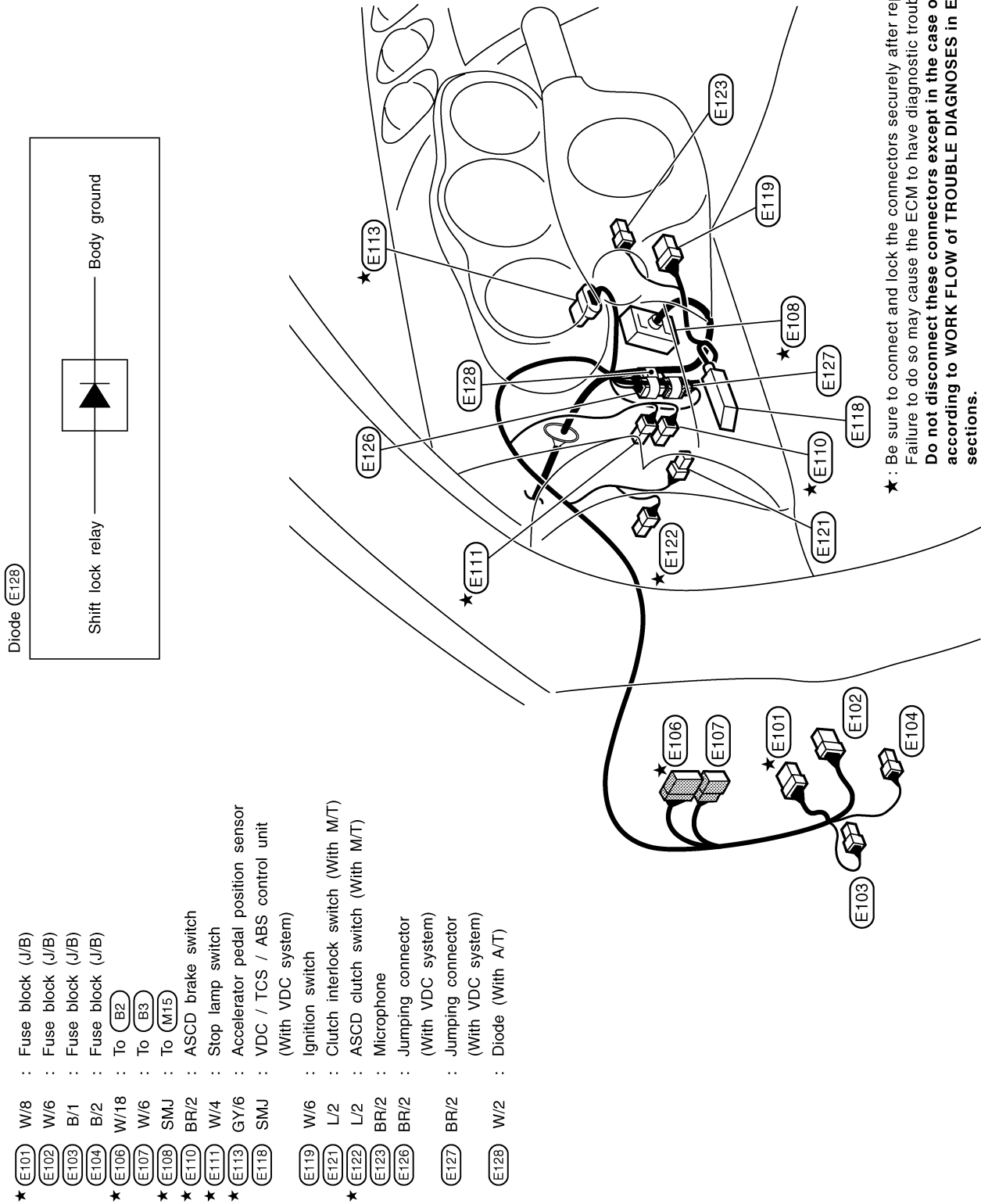
E1	(E1)	B/2	: Fusible link holder	A4	(E29)	GY/2	: Front washer pump
E1	(E2)	GY/2	: Fusible link holder	A4	(E30)	BR/2	: Washer level sensor
D3	(E3)	B/2	: IPDM E/R (Intelligent power distribution module engine room)	C4	(E31)	B/3	: To (E251)
D1	(E4)	W/4	: IPDM E/R (Intelligent power distribution module engine room)	C4	(E32)	B/1	: Horn (Low)
D3	(E5)	B/4	: IPDM E/R (Intelligent power distribution module engine room)	C4	(E33)	B/1	: Horn (Low)
D2	(E6)	W/6	: IPDM E/R (Intelligent power distribution module engine room)	B5	(E34)	B/2	: Ambient sensor
D1	(E7)	GY/16	: IPDM E/R (Intelligent power distribution module engine room)	B4	(E35)	B/1	: Horn (High)
D1	(E8)	W/12	: IPDM E/R (Intelligent power distribution module engine room)	A4	(E36)	B/1	: Horn (High)
E1	(E9)	W/16	: IPDM E/R (Intelligent power distribution module engine room)	C5	(E37)	Y/2	: Crash zone sensor
C1	(E10)	GY/9	: To (F1)	B5	(E38)	GY/4	: Cooling fan motor-1 (Via sub-harness)
C1	(E11)	GY/10	: To (F2)	B5	(E39)	GY/4	: Cooling fan motor-2 (Via sub-harness)
C1	(E12)	B/8	: To (F3)	E5	(E40)	GY/8	: Front combination lamp LH
B3	(E17)	—	: Body ground	E5	(E42)	B/2	: Front wheel sensor LH
C3	(E18)	—	: Fuse, fusible link and relay box	E4	(E43)	—	: Body ground
D1	(E19)	L/4	: Shift lock relay (With A/T)	E3	(E44)	GY/2	: Brake fluid level switch
A2	(E20)	L/4	: Daytime light relay (For Canada)	G3	(E47)	B/8	: VDC relay box (With VDC system)
E1	(E21)	—	: Fuse and fusible link block	F3	(E48)	B/2	: VDC relay box (With VDC system)
C2	(E22)	—	: Body ground	G2	(E49)	GY/8	: VDC relay box (With VDC system)
B3	(E23)	GY/2	: Hood switch	G2	(E50)	B/8	: VDC relay box (With VDC system)
A3	(E24)	GY/8	: Front combination lamp RH	G3	(E51)	SMJ	: ABS actuator and electric unit (Without VDC system)
C3	(E27)	GY/2	: Front wheel sensor RH	F2	(E52)	GY/5	: Front wiper motor
A4	(E28)	GY/2	: Rear washer pump	C1	(E61)	—	: Relay box (For Canada)

Sub-harness

A5	(E251)	B/3	: To (E31)
B3	(E252)	B/3	: Refrigerant pressure sensor

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

Passenger Compartment

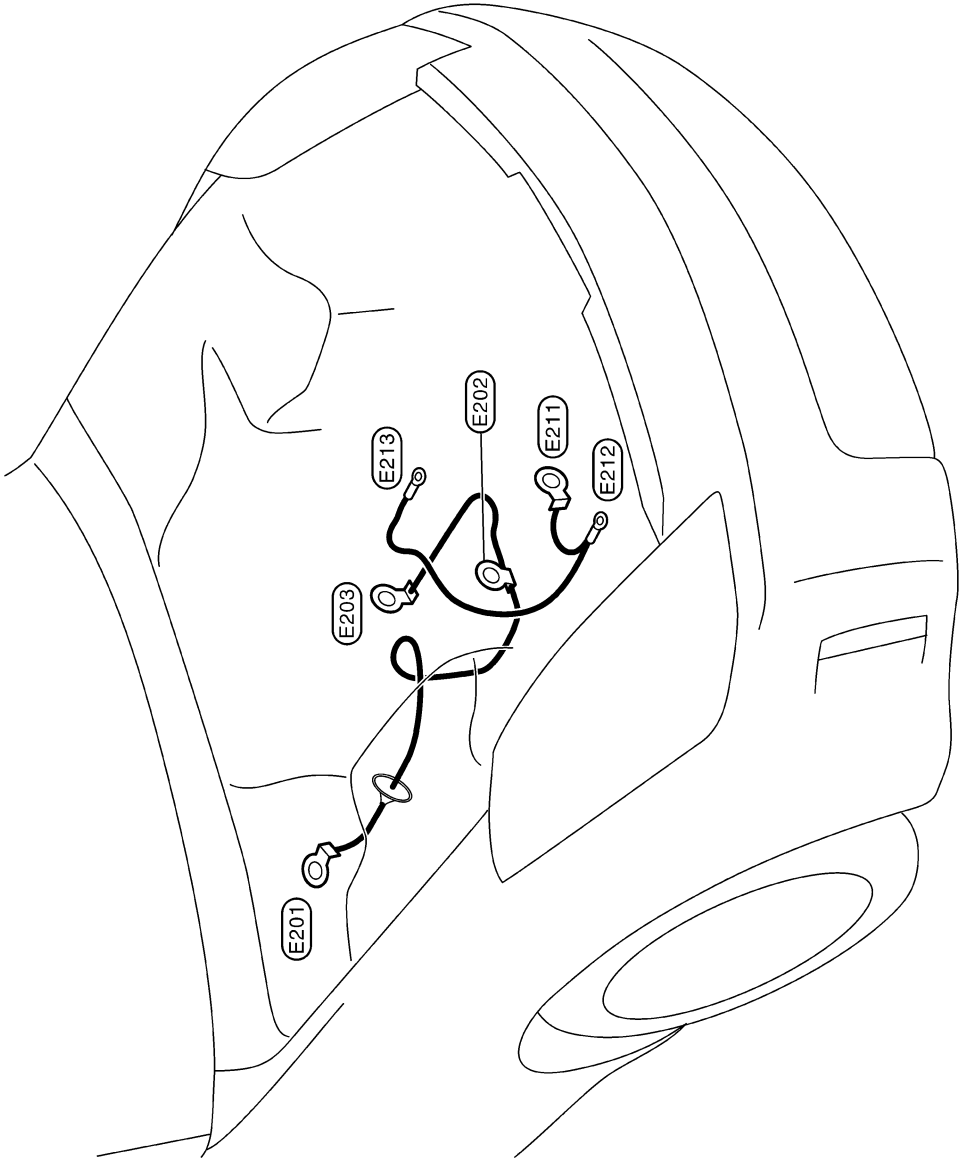


TKIT0551E

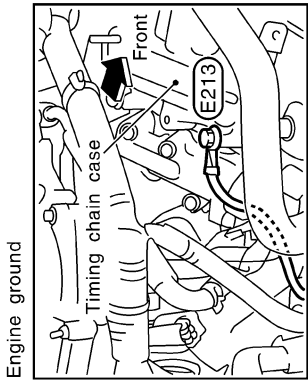
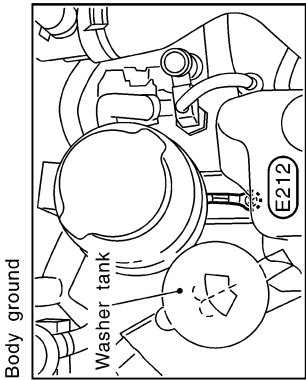
HARNESS

Battery Cable

- E201 : Fusible link holder
- E202 : Alternator (B)
- E203 : Starter motor
- E211 : Alternator (E)
- E212 : Body ground
- E213 : Engine ground

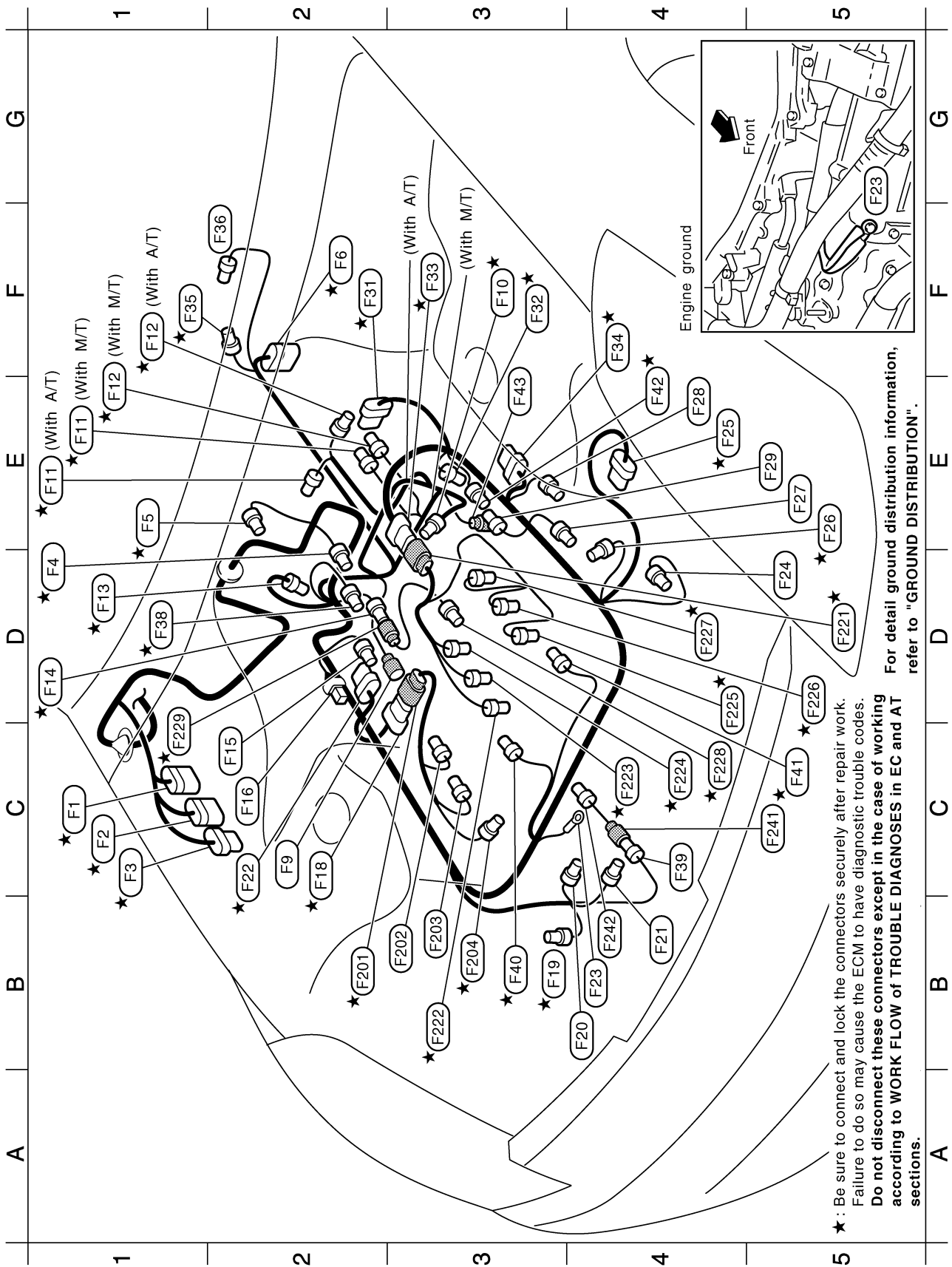


For detail ground distribution information, refer to "GROUND DISTRIBUTION".



CKIT0202E

ENGINE CONTROL HARNESS
Engine Compartment



TKIT0552E

Engine control sub-harness-1

B2 ★ (F201) L/6 : To (F18)
 B3 ★ (F202) GY/3 : Ignition coil No.3 (With power transistor)
 B3 ★ (F203) GY/3 : Ignition coil No.1 (With power transistor)
 B3 ★ (F204) G/2 : Intake valve timing control solenoid valve (Bank 1)

Engine control sub-harness-2

D5 ★ (F221) G/8 : To (F33)
 B3 ★ (F222) GY/2 : Fuel injector No.1
 C4 ★ (F223) GY/2 : Fuel injector No.3
 C4 ★ (F224) GY/2 : Fuel injector No.5
 D4 ★ (F225) GY/2 : Fuel injector No.2
 D5 ★ (F226) GY/2 : Fuel injector No.4
 D4 ★ (F227) GY/2 : Fuel injector No.6
 C4 ★ (F228) L/2 : Knock sensor
 C1 ★ (F229) SB/2 : To (F14)

Engine control sub-harness-3 (With M/T)

C5 (F241) BR/2 : To (F39)
 B4 (F242) GY/2 : Engine oil temperature sensor

C1 ★ (F1) GY/9 : To (E10)
 C1 ★ (F2) GY/10 : To (E11)
 C1 ★ (F3) B/8 : To (E12)
 D1 ★ (F4) G/3 : Camshaft position sensor (PHASE) (Bank 1)
 E1 ★ (F5) GY/2 : EVAP canister purge volume control solenoid valve
 F2 ★ (F6) GY/10 : A/T assembly (With A/T)
 C2 (F9) GY/1 : Starter motor
 F3 ★ (F10) B/3 : Crankshaft position sensor (POS)
 E1 ★ (F11) B/4 : Heated oxygen sensor 2 (Bank 1)
 E1,F1 ★ (F12) GY/4 : Heated oxygen sensor 2 (Bank 2)
 D1 ★ (F13) GY/2 : Engine coolant temperature sensor
 D1 ★ (F14) B/2 : To (F229)
 C2 (F15) GY/3 : Ignition coil No.5 (With power transistor)
 C2 (F16) W/2 : Condenser
 C2 ★ (F18) B/6 : To (F201)
 B3 ★ (F19) B/3 : Power steering pressure sensor
 B4 (F20) GY/2 : Alternator (S, L)
 B4 (F21) B/3 : Oil pressure sensor
 C2 ★ (F22) B/6 : Air fuel ratio (A/F) sensor 1 (Bank 1)
 B4 (F23) — : Engine ground
 D5 (F24) B/1 : Compressor
 E4 ★ (F25) B/6 : Mass air flow sensor
 E5 ★ (F26) GY/2 : Intake valve timing control solenoid valve (Bank 2)
 E5 (F27) GY/3 : Ignition coil No.2 (With power transistor)
 E4 (F28) GY/3 : Ignition coil No.4 (With power transistor)
 E5 (F29) GY/3 : Ignition coil No.6 (With power transistor)
 F2 ★ (F31) GY/6 : Electric throttle control actuator
 F3 ★ (F32) B/3 : Camshaft position sensor (PHASE) (Bank 2)
 F3 ★ (F33) GY/8 : To (F221)
 F4 ★ (F34) B/6 : Air fuel ratio (A/F) sensor 1 (Bank 2)
 F1 ★ (F35) B/2 : Park/Neutral position switch (With M/T)
 F2 (F36) B/2 : Back-up lamp switch (With M/T)
 D1 ★ (F38) B/3 : Exhaust valve timing control position sensor (Bank 1) (With M/T)
 C4 (F39) BR/2 : To (F241) (With M/T)
 B3 ★ (F40) G/4 : Exhaust valve timing control magnet retarder (Bank 1) (With M/T)
 C5 ★ (F41) L/4 : Exhaust valve timing control magnet retarder (Bank 2) (With M/T)
 E4 ★ (F42) G/3 : Exhaust valve timing control position sensor (Bank 2) (With M/T)
 E3 (F43) GY/2 : Power steering solenoid valve

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

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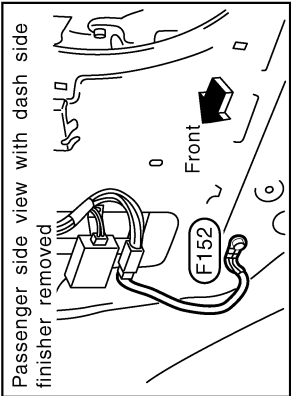
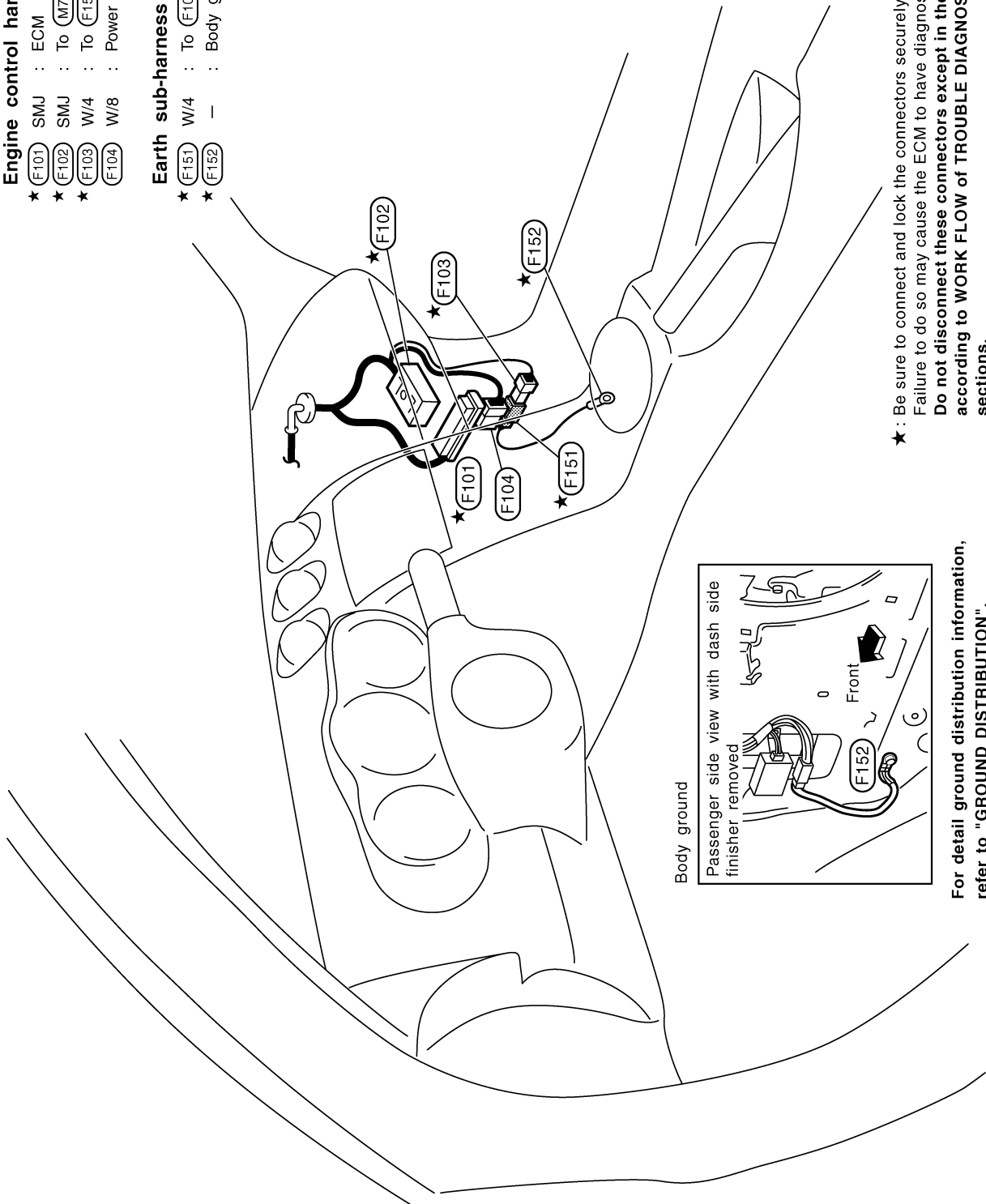
Passenger Compartment

Engine control harness

- ★ (F101) SMJ : ECM
- ★ (F102) SMJ : To (M72)
- ★ (F103) W/4 : To (F151)
- ★ (F104) W/8 : Power steering control unit

Earth sub-harness

- ★ (F151) W/4 : To (F103)
- ★ (F152) — : 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.

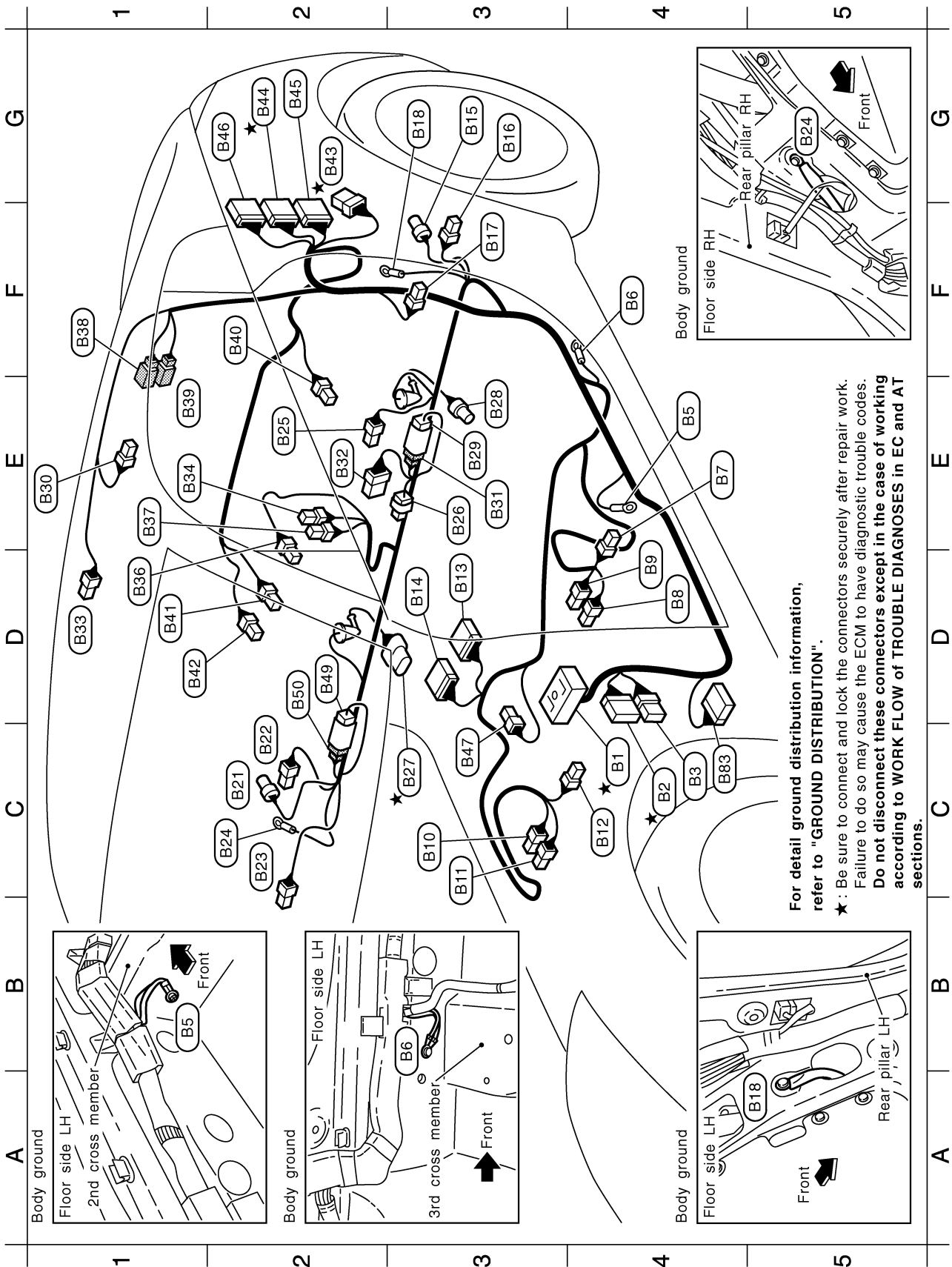
For detail ground distribution information, refer to "GROUND DISTRIBUTION".

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HARNESS

BODY HARNESS

Coupe Models



TKIT0294E

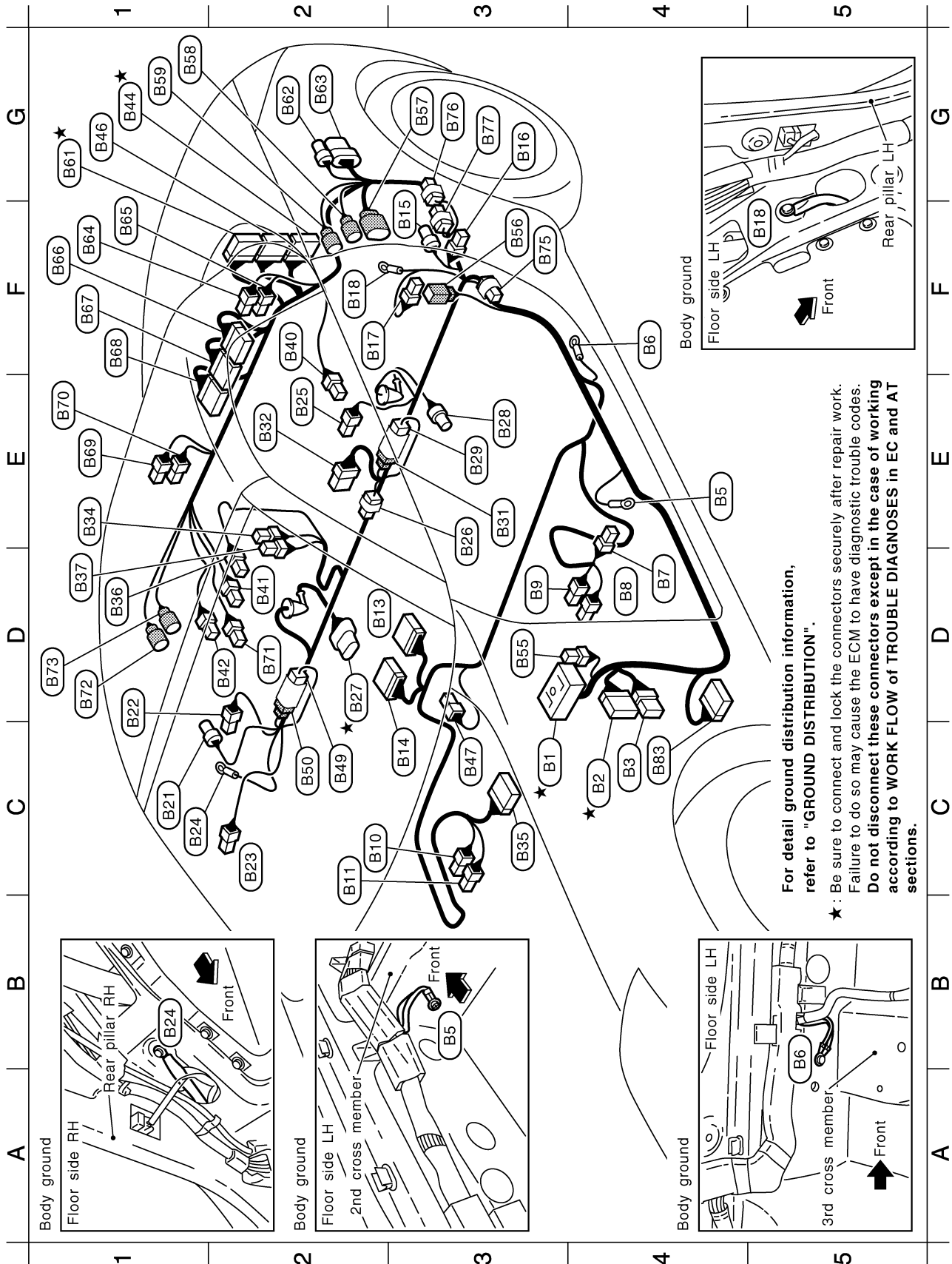
E1	(B37)	L/4	: Heated seat relay (With heated seat or side air bag)
F1	(B38)	W/3	: To (D101)
E1	(B39)	GY/2	: To (D102)
F2	(B40)	BR/2	: Rear speaker LH
D1	(B41)	W/2	: Luggage floor box lamp
D1	(B42)	BR/2	: Rear speaker RH
G2★	(B43)	W/6	: To (T1)
G2★	(B44)	W/32	: To (T2)
G2	(B45)	W/10	: To (T3) (With BOSE system)
G2	(B46)	W/24	: To (T4) (With BOSE system)
C3	(B47)	B/1	: Parking brake switch
D2	(B49)	BR/2	: To (B50)
D2	(B50)	BR/2	: To (B49)
C4	(B83)	W/15	: BCM (Body control module)

★ : 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.

C4★	(B1)	SMJ	: To (M12)
C4★	(B2)	W/18	: To (E106)
C4	(B3)	W/6	: To (E107)
E4	(B5)	—	: Body ground
F4	(B6)	—	: Body ground
E4	(B7)	W/4	: Driver side seat (With heated seat or side air bag)
D4	(B8)	W/3	: Seat belt buckle switch (Driver side)
D4	(B9)	Y/2	: LH side air bag module (With side air bag)
C3	(B10)	Y/2	: RH side air bag module (With side air bag)
C3	(B11)	W/3	: Seat belt buckle switch (Passenger side)
C4	(B12)	W/4	: Passenger side seat (With heated seat or side air bag)
D3	(B13)	Y/12	: Air bag diagnosis sensor unit
D3	(B14)	Y/12	: Air bag diagnosis sensor unit
G3	(B15)	Y/2	: LH side air bag (satellite) sensor (With side air bag)
G3	(B16)	Y/2	: Seat belt pre-tensioner LH
F3	(B17)	W/3	: Driver side door switch
G3	(B18)	—	: Body ground (With side air bag)
C2	(B21)	Y/2	: RH side air bag (satellite) sensor (With side air bag)
C2	(B22)	Y/2	: Seat belt pre-tensioner RH
C2	(B23)	W/3	: Passenger side door switch
C2	(B24)	—	: Body ground (With side air bag)
E2	(B25)	W/2	: Woofer (With BOSE system)
E3	(B26)	W/2	: Condenser
C3★	(B27)	GY/5	: Fuel level sensor unit and fuel pump
E3	(B28)	GY/2	: Fuel level sensor unit (Sub)
E3	(B29)	W/2	: To (B31)
E1	(B30)	Y/2	: LH side curtain air bag module (With side air bag)
E3	(B31)	W/2	: To (B29)
E2	(B32)	BR/8	: Woofer amp. (With BOSE system)
D1	(B33)	Y/2	: RH side curtain air bag module (With side air bag)
E1	(B34)	BR/6	: Rear window defogger relay
D1	(B36)	B/2	: Power socket

HARNESS

Roadster Models



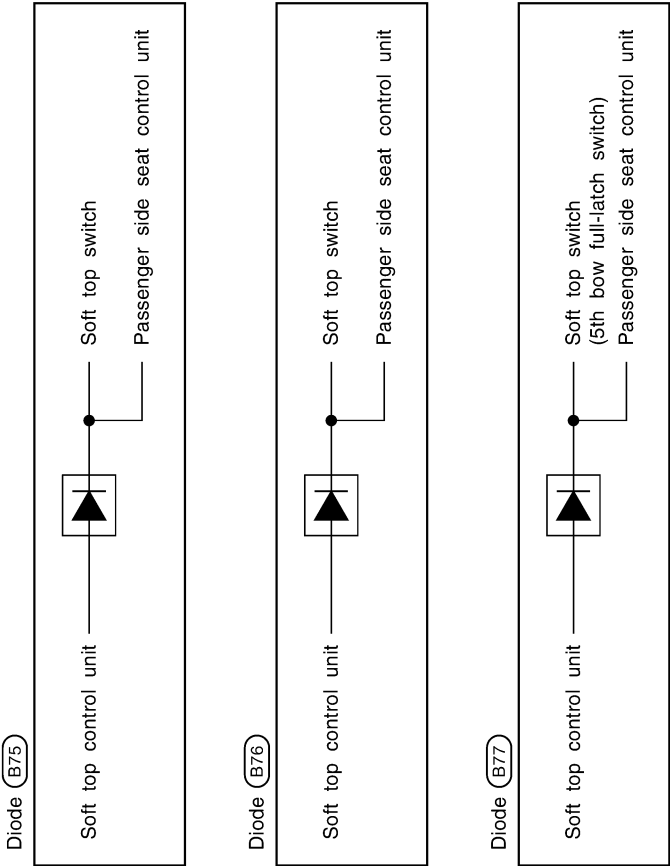
TKIT0556E

C3★	(B1)	SMJ	:	To (M12)
C4★	(B2)	W/18	:	To (E106)
C4	(B3)	W/6	:	To (E107)
E4	(B5)	—	:	Body ground
F4	(B6)	—	:	Body ground
D4	(B7)	W/4	:	Driver side seat
D4	(B8)	W/3	:	Seat belt buckle switch (Driver side)
D3	(B9)	Y/2	:	LH side air bag module (With side air bag)
C2	(B10)	Y/2	:	RH side air bag module (With side air bag)
C2	(B11)	W/3	:	Seat belt buckle switch (Passenger side)
D2	(B13)	Y/12	:	Air bag diagnosis sensor unit
C3	(B14)	Y/12	:	Air bag diagnosis sensor unit
F3	(B15)	Y/2	:	LH side air bag (satellite) sensor (With side air bag)
G3	(B16)	Y/2	:	Seat belt pre-tensioner LH
F2	(B17)	W/3	:	Driver side door switch
F2	(B18)	—	:	Body ground (With side air bag)
C1	(B21)	Y/2	:	RH side air bag (satellite) sensor (With side air bag)
D1	(B22)	Y/2	:	Seat belt pre-tensioner RH
C2	(B23)	W/3	:	Passenger side door switch
C1	(B24)	—	:	Body ground (With side air bag)
E2	(B25)	W/2	:	Woofer (With BOSE system)
E3	(B26)	W/2	:	Condenser
D2★	(B27)	GY/5	:	Fuel level sensor unit and fuel pump
E3	(B28)	GY/2	:	Fuel level sensor unit (Sub)
E3	(B29)	W/2	:	To (B31)
E3	(B31)	W/2	:	To (B29)
E2	(B32)	BR/8	:	Woofer amp. (With BOSE system)
E1	(B34)	BR/6	:	Rear window defogger relay
C3	(B35)	W/18	:	Passenger side seat
D1	(B36)	B/2	:	Power socket
D1	(B37)	L/4	:	Heated seat relay (With heated seat or side air bag)
F2	(B40)	BR/2	:	Rear speaker LH
D2	(B41)	W/2	:	Luggage floor box lamp
D2	(B42)	BR/2	:	Rear speaker RH
G1★	(B44)	W/32	:	To (T2)
G1	(B46)	W/24	:	To (T4) (With BOSE system)
C3	(B47)	B/1	:	Parking brake switch
C2	(B49)	BR/2	:	To (B50)
C2	(B50)	BR/2	:	To (B49)

D3	(B55)	W/2	:	Circuit breaker
F3	(B56)	W/2	:	Short connector
G3	(B57)	GY/8	:	Soft top assembly
G1	(B58)	B/2	:	Soft top assembly
G1	(B59)	GY/2	:	Roof actuator LH
G1★	(B61)	W/16	:	To (T23)
G2	(B62)	GY/4	:	To (T24) (With BOSE system)
G2	(B63)	B/6	:	To (T25) (With BOSE system)
F1	(B64)	W/2	:	Storage lid switch LH (Close)
F1	(B65)	B/2	:	Storage lid unlock actuator LH
F1	(B66)	W/16	:	Soft top control unit
F1	(B67)	W/20	:	Soft top control unit
F1	(B68)	W/12	:	Soft top control unit
E1	(B69)	W/2	:	Storage lid switch RH (Close)
E1	(B70)	B/2	:	Storage lid unlock actuator RH
D2	(B71)	W/2	:	Trunk opener cancel switch
D1	(B72)	GY/2	:	Roof actuator RH
D1	(B73)	B/2	:	Rear window defogger (Via sub-harness)
F3	(B75)	W/2	:	Diode
G3	(B76)	W/2	:	Diode
G3	(B77)	W/2	:	Diode
C4	(B83)	W/15	:	BCM (Body control module)

★ : 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.

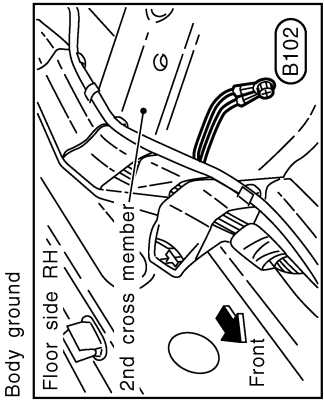
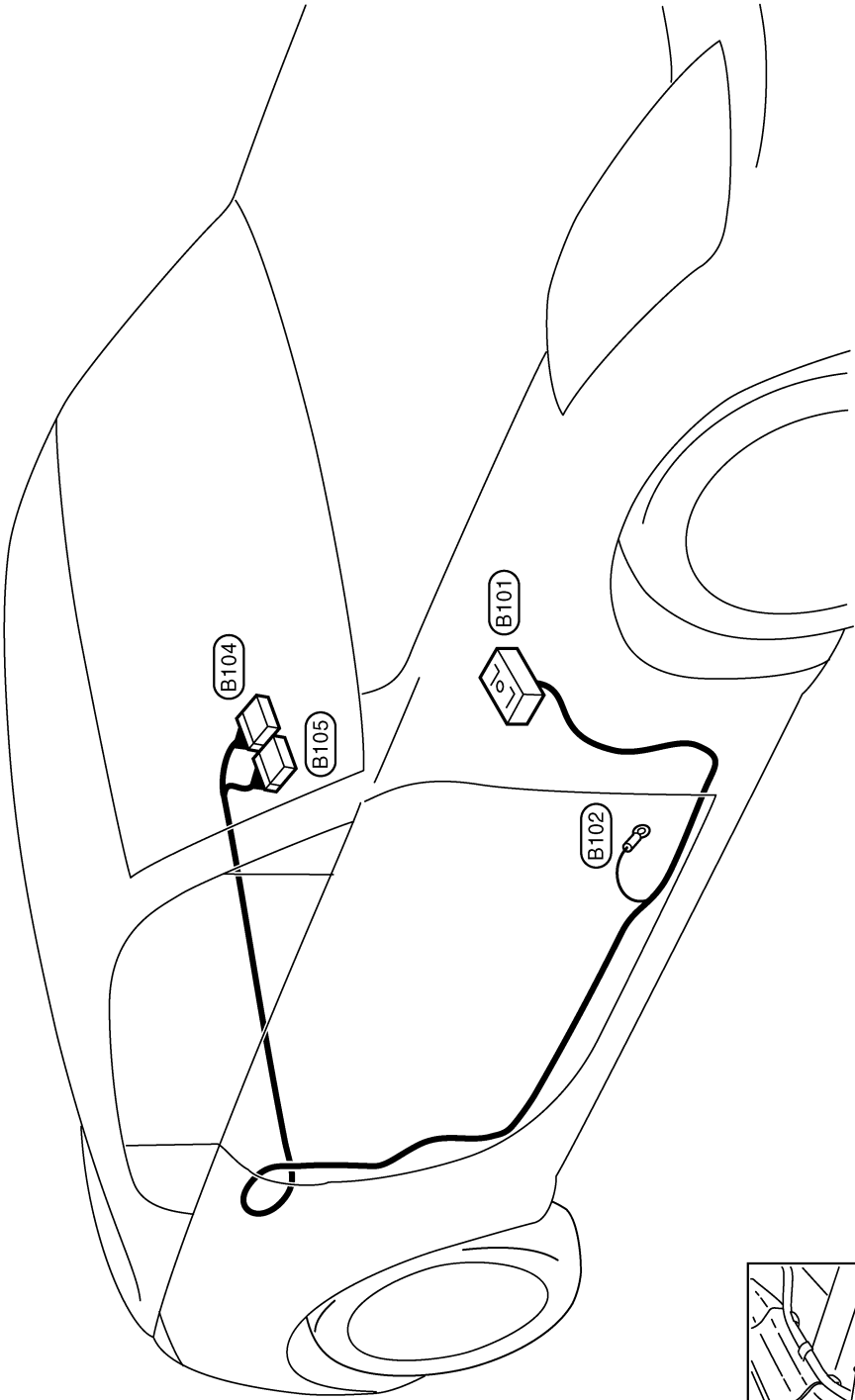
TKIT0557E



HARNESS

BODY NO. 2 HARNESS

- (B101) SMJ : To (M73)
- (B102) — : Body ground
- (B104) W/40 : NAVI control unit
- (B105) W/32 : NAVI control unit



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

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TAIL HARNESS Coupe Models

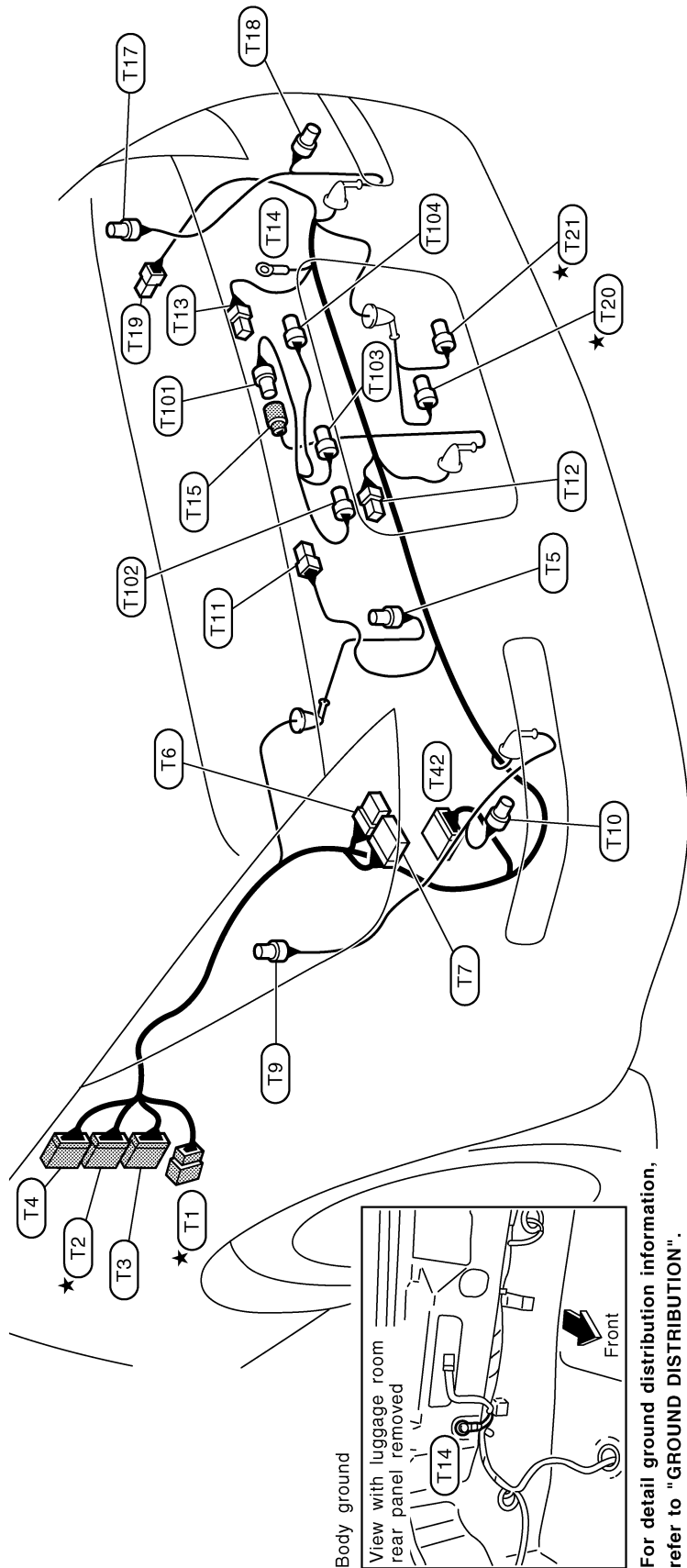
★ T1	W/6	: To (B43)
★ T2	W/32	: To (B44)
T3	W/10	: To (B45) (With BOSE system)
T4	W/24	: To (B46) (With BOSE system)
T5	GY/4	: Rear wheel sensor
T6	GY/8	: BOSE speaker amp. (With BOSE system)
T7	B/24	: BOSE speaker amp. (With BOSE system)
T9	GY/3	: Rear combination lamp LH (Body side)
T10	GY/4	: Rear combination lamp LH (Bumper side)
T11	W/4	: Back door opener actuator
T12	W/3	: Back door switch
T13	GY/2	: Luggage room lamp
T14	—	: Body ground
T15	GY/4	: To (T101)
T17	GY/3	: Rear combination lamp RH (Body side)
T18	GY/4	: Rear combination lamp RH (Bumper side)

T19	W/4	: Fuel lid opener actuator
★ T20	B/2	: EVAP canister vent control valve
★ T21	GY/3	: EVAP control system pressure sensor
T42	W/16	: Satellite radio tuner (With BOSE system)

Tail sub-harness-1

T101	GY/4	: To (T15)
T102	BR/2	: License plate lamp LH
T103	GY/2	: Back door opener switch
T104	BR/2	: License plate lamp RH

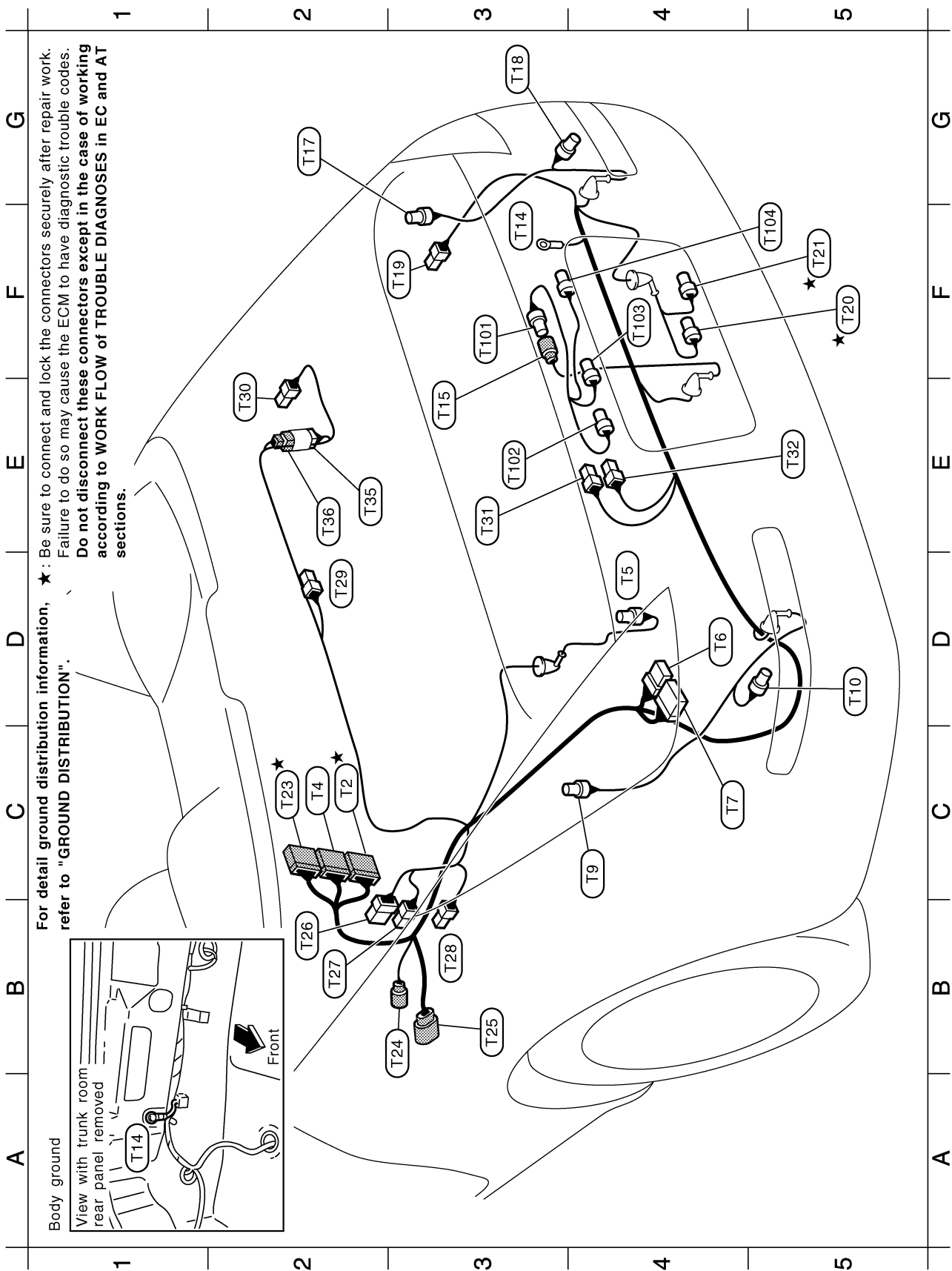
★ : Be sure to connect and lock the connectors securely after repair work.
Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.



TKIT0559E

HARNESS

Roadster Models



PG

TKIT0560E

Tail sub-harness-1

C2	★	T2	W/32	:	To	B44	
C2		T4	W/24	:	To	B46	(With BOSE system)
D4		T5	GY/4	:			Rear wheel sensor
D4		T6	GY/8	:			BOSE speaker amp. (With BOSE system)
C4		T7	B/24	:			BOSE speaker amp. (With BOSE system)
C4		T9	GY/3	:			Rear combination lamp LH (Body side)
D5		T10	GY/4	:			Rear combination lamp LH (Bumper side)
F3		T14	—	:			Body ground
E3		T15	GY/4	:	To	T101	
G2		T17	GY/3	:			Rear combination lamp RH (Body side)
G3		T18	GY/4	:			Rear combination lamp RH (Bumper side)
F3		T19	W/4	:			Fuel lid opener actuator
F5	★	T20	B/2	:			EVAP canister vent control valve
F5	★	T21	GY/3	:			EVAP control system pressure sensor
C2	★	T23	W/16	:	To	B61	
B3		T24	GY/4	:	To	B62	(With BOSE system)
B3		T25	B/6	:	To	B63	(With BOSE system)
B2		T26	W/8	:	To	T151	
B2		T27	B/2	:			Storage lid switch (Open)
B3		T28	W/2	:			Storage lid actuator LH
D2		T29	W/2	:			Trunk room lamp
E2		T30	W/2	:			Storage lid actuator RH
E3		T31	W/2	:			Trunk room lamp switch
E5		T32	B/2	:			Trunk lid opener actuator
E2		T35	W/2	:	To	T36	
E2		T36	W/2	:	To	T35	

★ : 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.

F3 T101 GY/4 : To T15

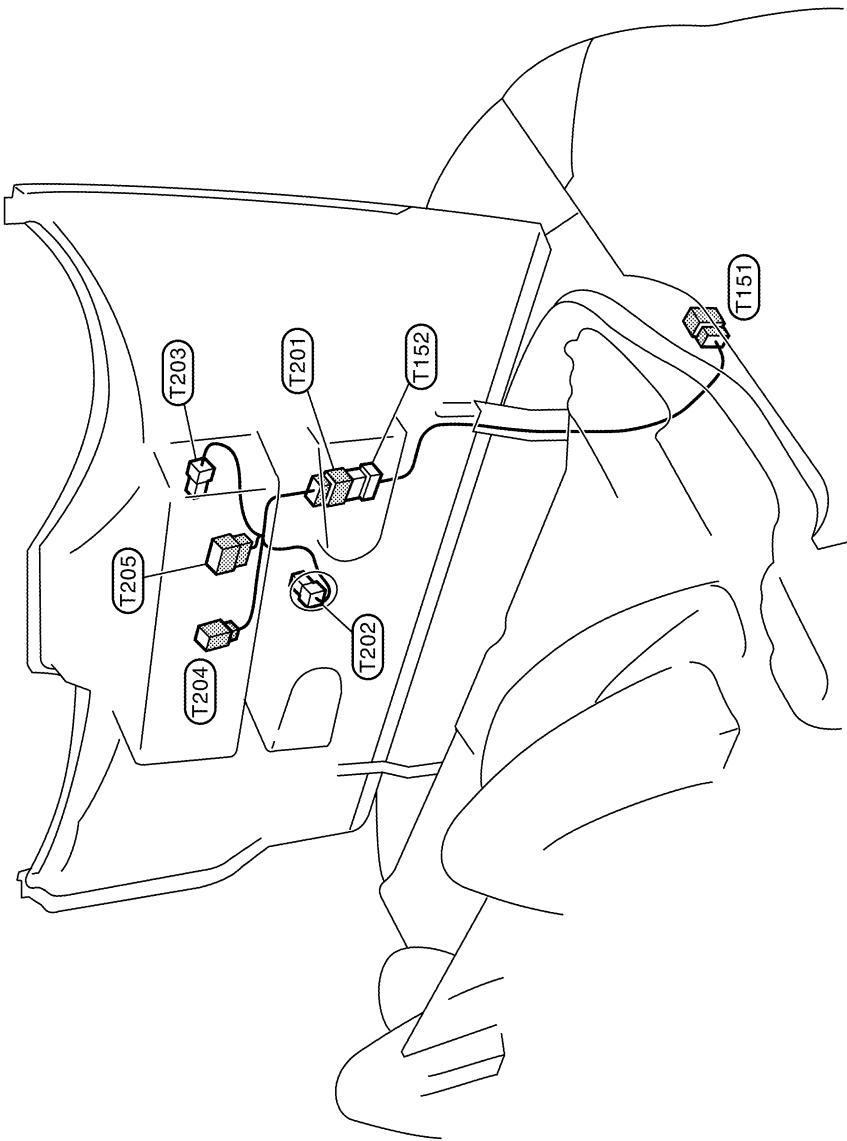
E3 T102 BR/2 : License plate lamp LH

F4 T103 GY/2 : Trunk lid opener switch

F5 T104 BR/2 : License plate lamp RH

HARNESS

TAIL NO. 2 HARNESS
Roadster Models



Tail No.2 harness

- T201 W/8 : To T152
- T202 BR/2 : High-mounted stop lamp
- T203 W/4 : 5th bow unlock actuator
- T204 B/2 : 5th bow closure motor
- T205 W/6 : Soft top lock switch

Tail sub-harness-2

- T151 W/8 : To T26
- T152 W/8 : To T201

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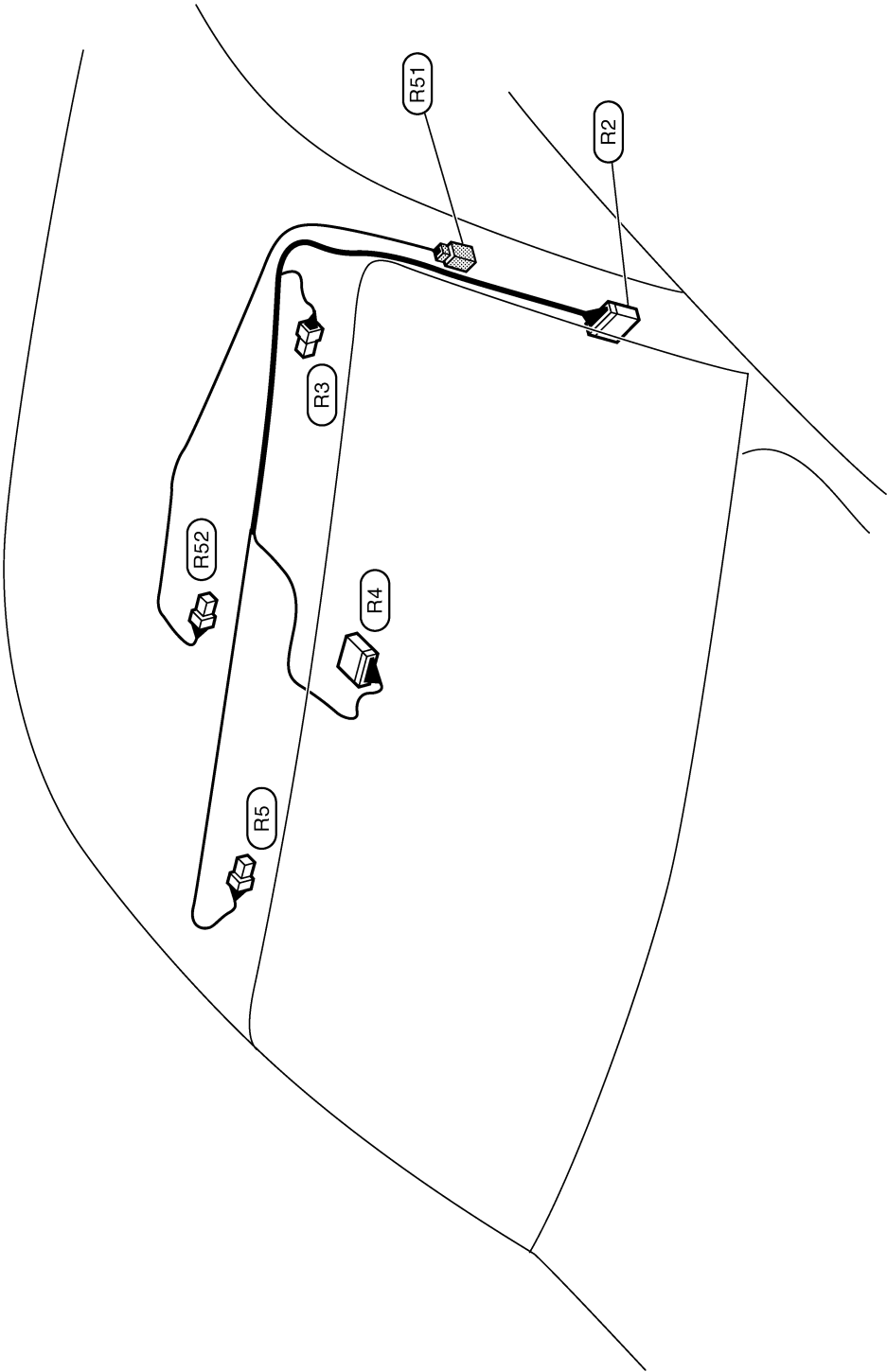
HARNESS

ROOM LAMP HARNESS
Coupe Models

Room lamp sub-harness

- (R51) W/4 : To (M70)
- (R52) W/3 : Map lamp

- (R2) W/12 : To (M93)
- (R3) W/2 : Vanity mirror lamp LH
- (R4) B/10 : Auto anti-dazzling inside mirror
- (R5) W/2 : Vanity mirror lamp RH



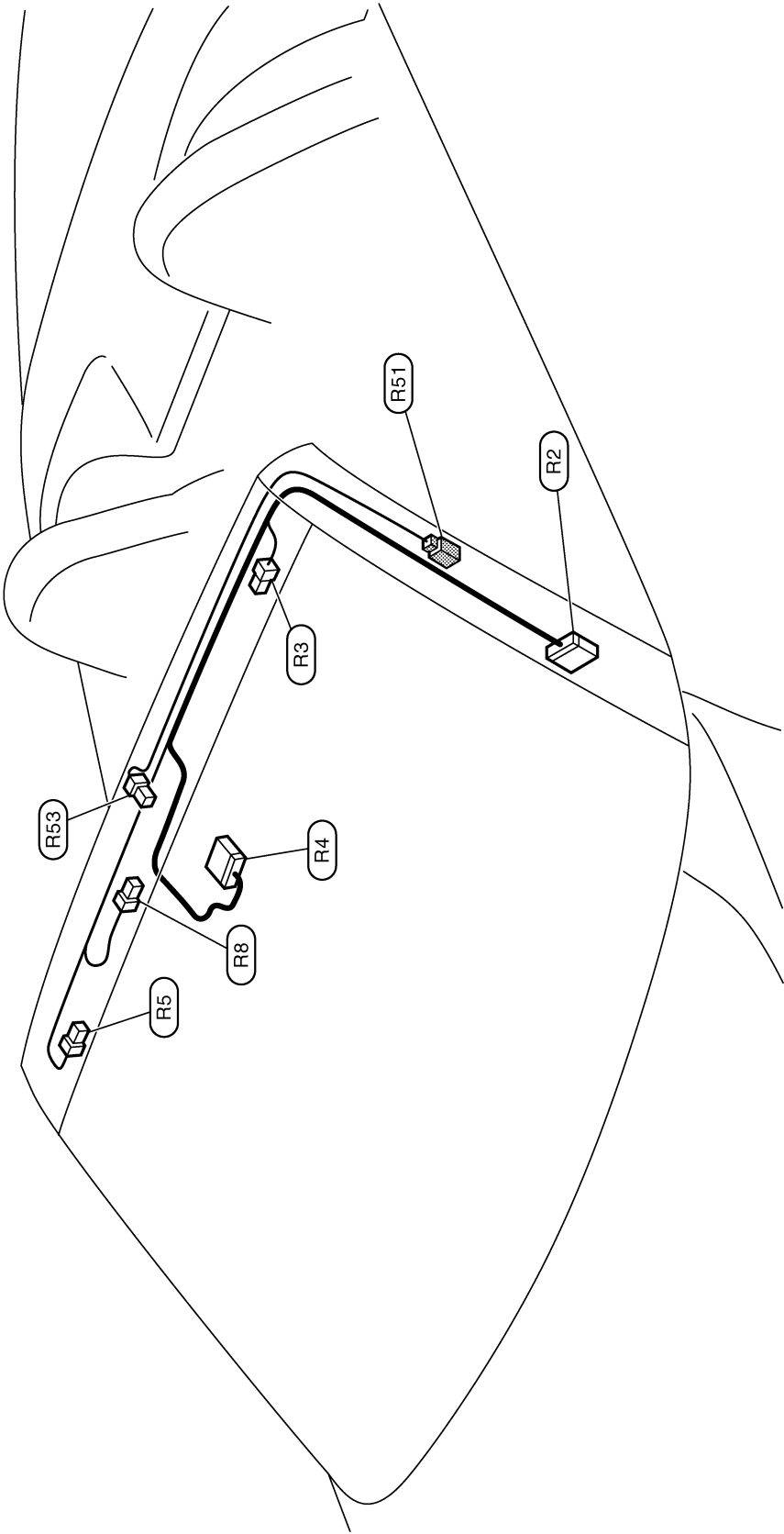
HARNESS

Roadster Models

Room lamp sub-harness

- (R51) W/4 : To (M70)
- (R53) W/4 : Map lamp

- (R2) W/12 : To (M93)
- (R3) W/2 : Vanity mirror lamp LH
- (R4) B/10 : Auto anti-dazzling inside mirror
- (R5) W/2 : Vanity mirror lamp RH
- (R8) W/4 : Soft top front lock switch



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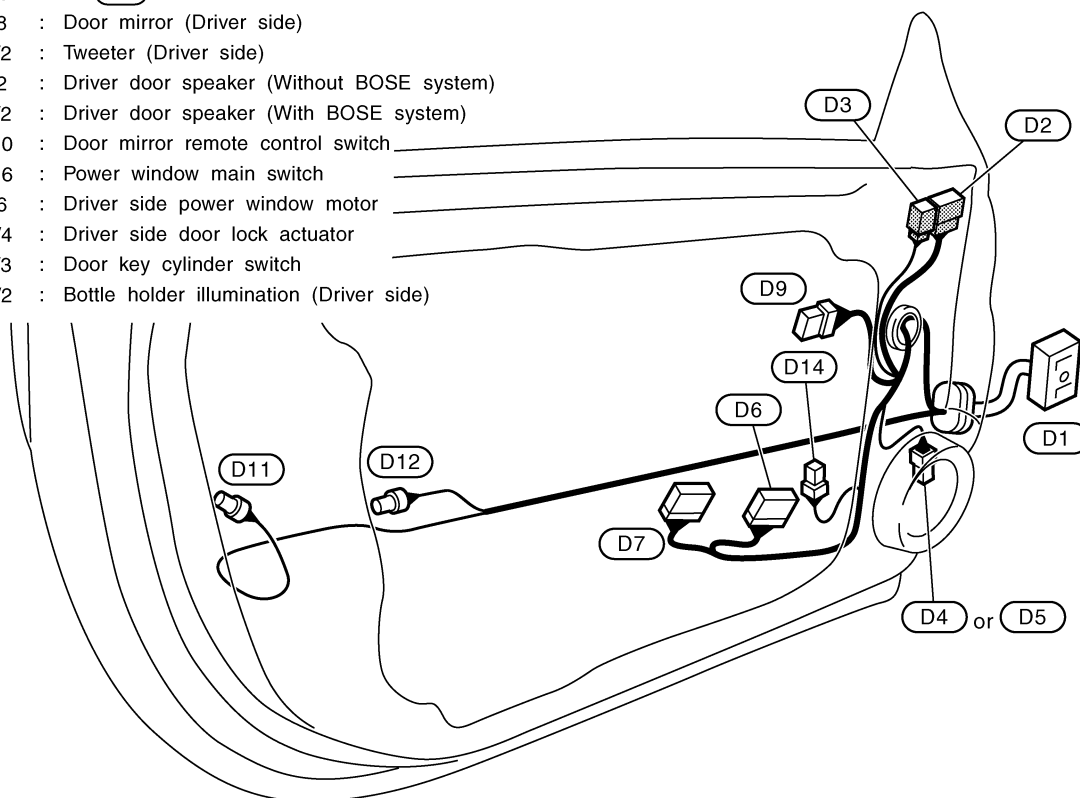
TKIT0562E

HARNESS

DOOR HARNESS

Driver Side Door

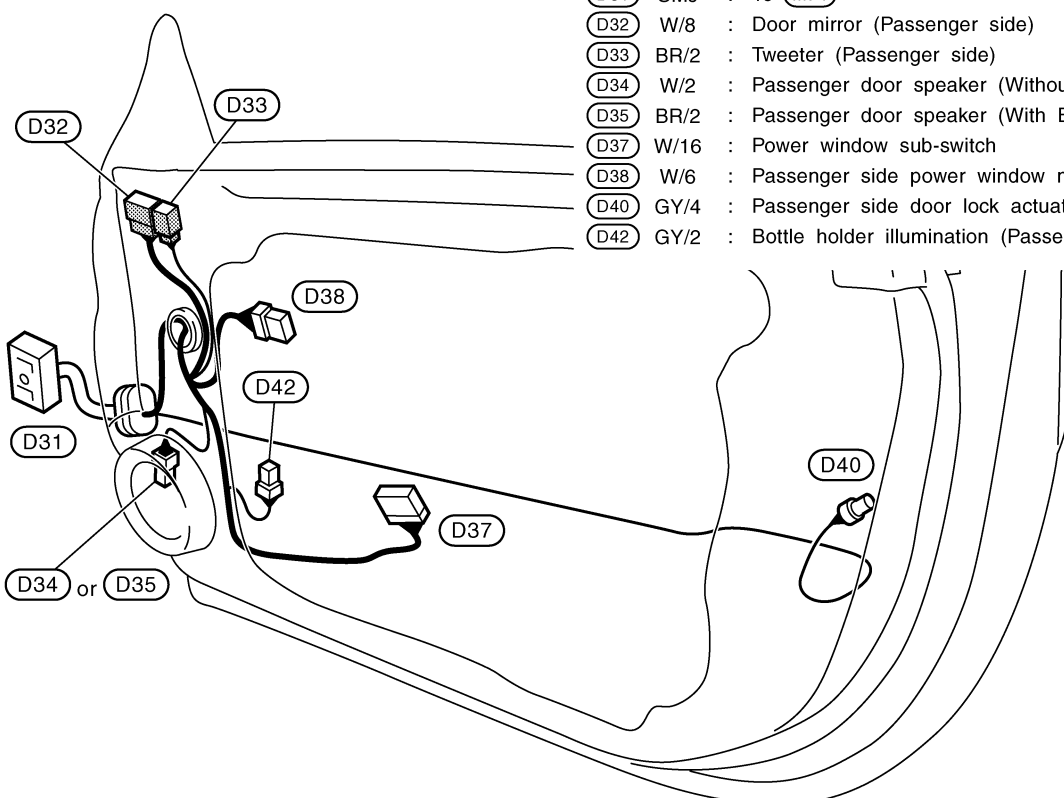
- (D1) SMJ : To (M11)
- (D2) W/8 : Door mirror (Driver side)
- (D3) BR/2 : Tweeter (Driver side)
- (D4) W/2 : Driver door speaker (Without BOSE system)
- (D5) BR/2 : Driver door speaker (With BOSE system)
- (D6) W/10 : Door mirror remote control switch
- (D7) W/16 : Power window main switch
- (D9) W/6 : Driver side power window motor
- (D11) GY/4 : Driver side door lock actuator
- (D12) BR/3 : Door key cylinder switch
- (D14) GY/2 : Bottle holder illumination (Driver side)



TKIT0563E

Passenger Side Door

- (D31) SMJ : To (M74)
- (D32) W/8 : Door mirror (Passenger side)
- (D33) BR/2 : Tweeter (Passenger side)
- (D34) W/2 : Passenger door speaker (Without BOSE system)
- (D35) BR/2 : Passenger door speaker (With BOSE system)
- (D37) W/16 : Power window sub-switch
- (D38) W/6 : Passenger side power window motor
- (D40) GY/4 : Passenger side door lock actuator
- (D42) GY/2 : Bottle holder illumination (Passenger side)



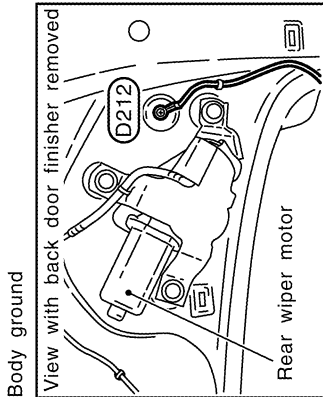
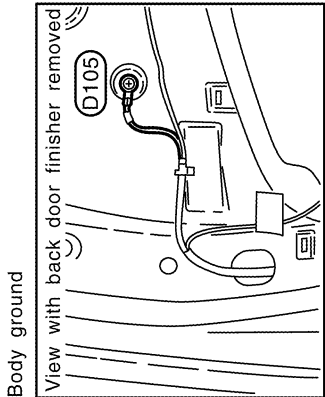
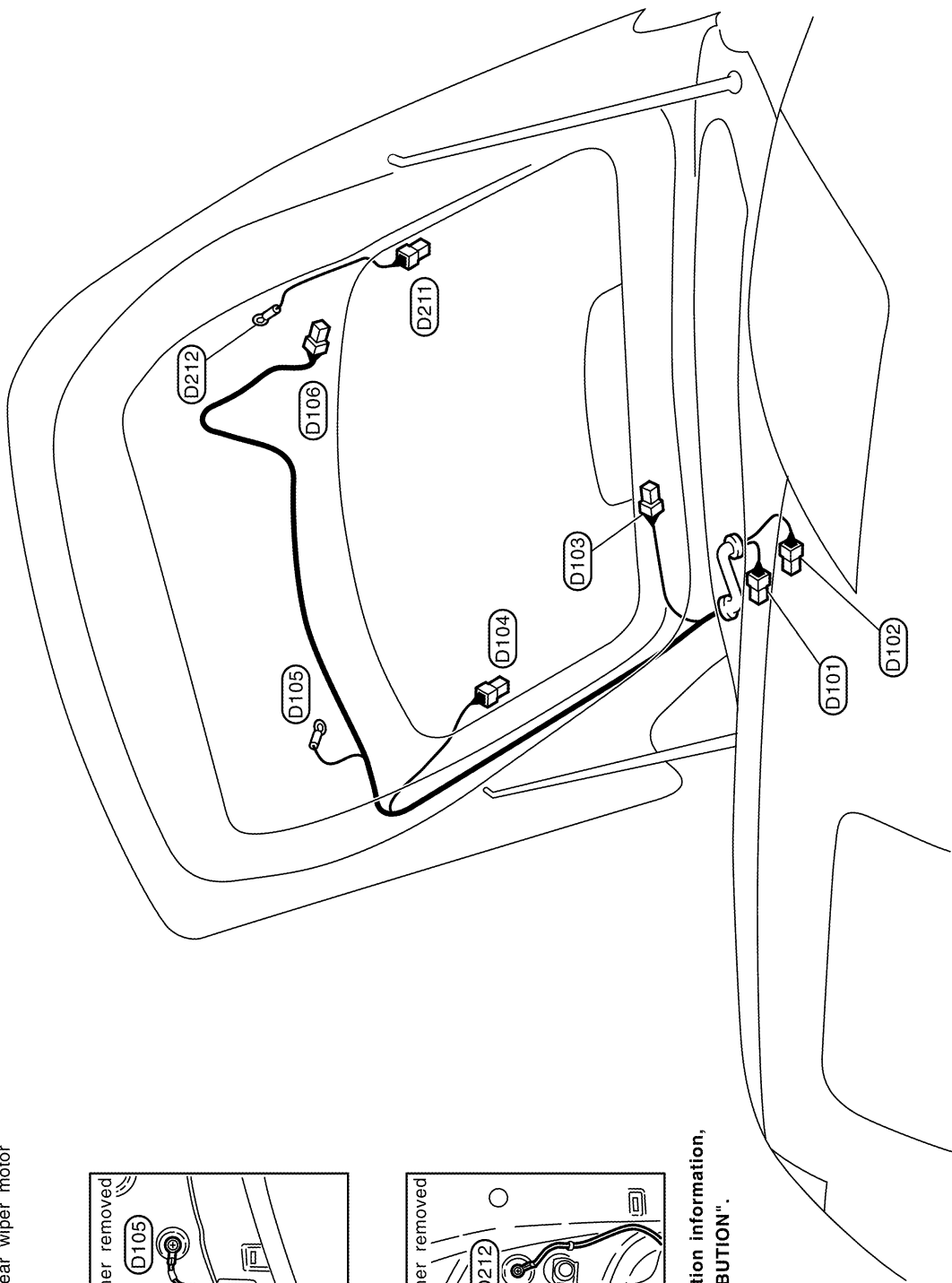
TKIT0564E

HARNESS

Back Door

Defogger harness (-)
D211 B/1 : Rear window defogger (-)
D212 - : Body ground

D101 W/3 : To B38
D102 GY/2 : To B39
D103 BR/2 : High-mounted stop lamp
D104 B/1 : Rear window defogger
D105 - : Body ground
D106 W/4 : Rear wiper motor



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

TKIT0068E

HARNESS

Wiring Diagram Codes (Cell Codes)

NKS000EH

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
3METER	DI	Triple Meter
ABS	BRC	Anti-Lock Brake System
A/C	ATC	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
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASC/BS	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASC/SW	EC	Automatic Speed Control Device (ASCD) Steering Switch
ASCBOF	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASCIND	EC	Automatic Speed Control Device (ASCD) Indicator
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
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
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication Line
COOL/F	EC	Cooling Fan Control
DEF	GW	Rear Window Defogger
D/LOCK	BL	Power Door Lock
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
EPS	STC	Electric Controlled Power Steering System
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric Throttle Control Motor
EVCB1	EC	Exhaust Valve Timing Control Magnet Retarder (Bank 1)
EVCB2	EC	Exhaust Valve Timing Control Magnet Retarder (Bank 2)
EVCSB1	EC	Exhaust Valve Timing Control Position Sensor (Bank 1)
EVCSB2	EC	Exhaust Valve Timing Control Position Sensor (Bank 2)
F/LID	BL	Fuel Lid Opener
F/PUMP	EC	Fuel Pump

HARNESS

Code	Section	Wiring Diagram Name
F/ROOF	RF	Soft Top
FTS	AT	A/T Fluid Temperature Sensor Circuit
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 2)
H/LAMP	LT	Headlamp
HORN	WW	Horn
HSEAT	SE	Heated Seat
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
INJECT	EC	Injector
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
M/ANT	AV	Manual Antenna
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges
MIL/DL	EC	MIL & Data Link Connector
MIRROR	GW	Power Door Mirror
MMSW	AT	Manual Mode Switch
NATS	BL	Nissan Anti-Theft System
NAVI	AV	Navigation System
NONDTC	AT	Non-Detective Items
O2H2B1	EC	Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	Heated Oxygen Sensor 2 Heater Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2
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 Pressure Sensor
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor

A

B

C

D

E

F

G

H

I

J

PG

L

M

HARNESS

Code	Section	Wiring Diagram Name
SEAT	SE	Power Seat
SEN/PW	EC	Sensor Power Supply
SHIFT	AT	A/T Shift Lock System
SRS	SRS	Supplemental Restraint System
START	SC	Starting System
STOP/L	LT	Stop Lamp
STSIG	AT	Start Signal Circuit
TAIL/L	LT	Parking, License and Tail Lamps
TCS	BRC	Traction Control System
TLID	BL	Trunk Lid Opener
TPS1	EC	Throttle Position Sensor (Sensor 1)
TPS2	EC	Throttle Position Sensor (Sensor 2)
TPS3	EC	Throttle Position Sensor
TRNSCV	BL	Homelink Universal Transceiver
TURN	LT	Turn Signal and Hazard Warning Lamp
T/WARN	WT	Low Tire Pressure Warning System
VDC	BRC	Vehicle Dynamics Control System
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer
WIP/R	WW	Rear Wiper and Washer

ELECTRICAL UNITS LOCATION

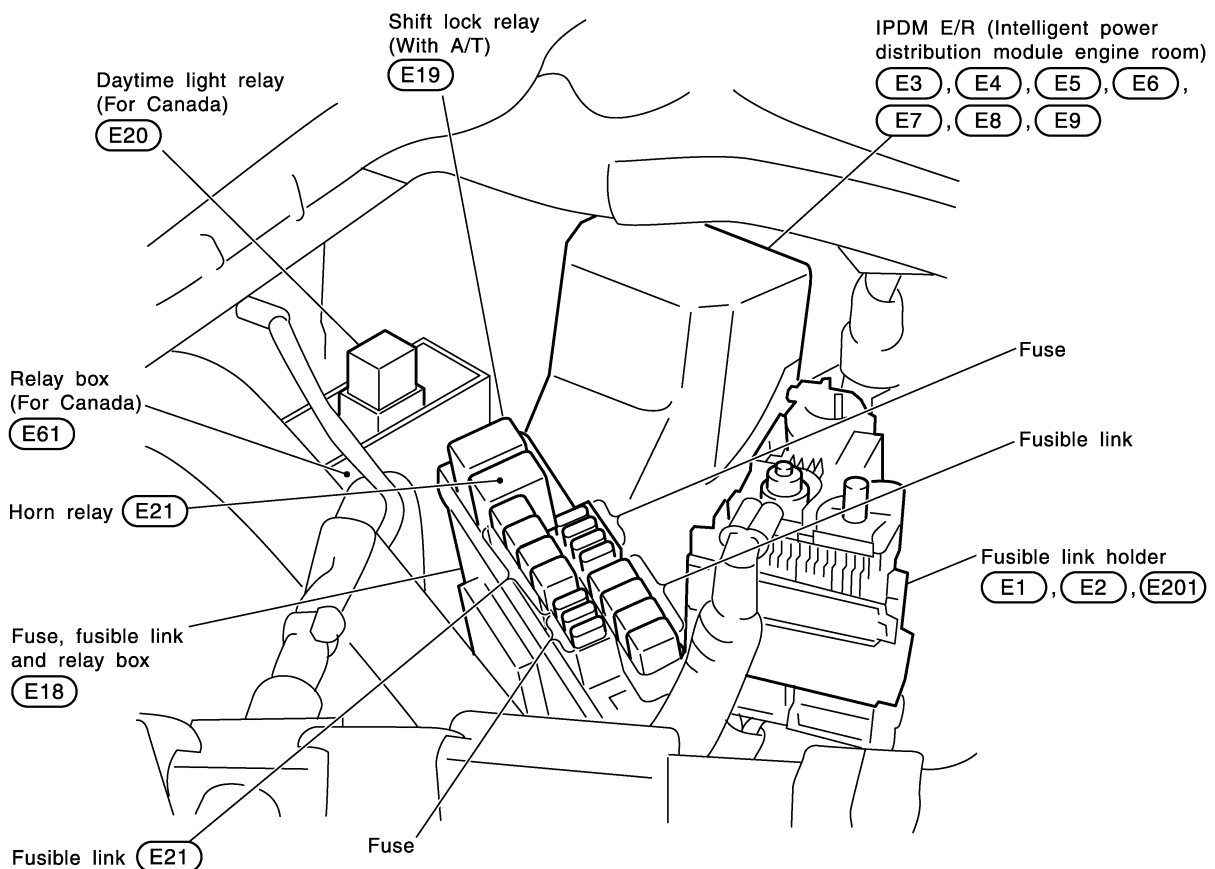
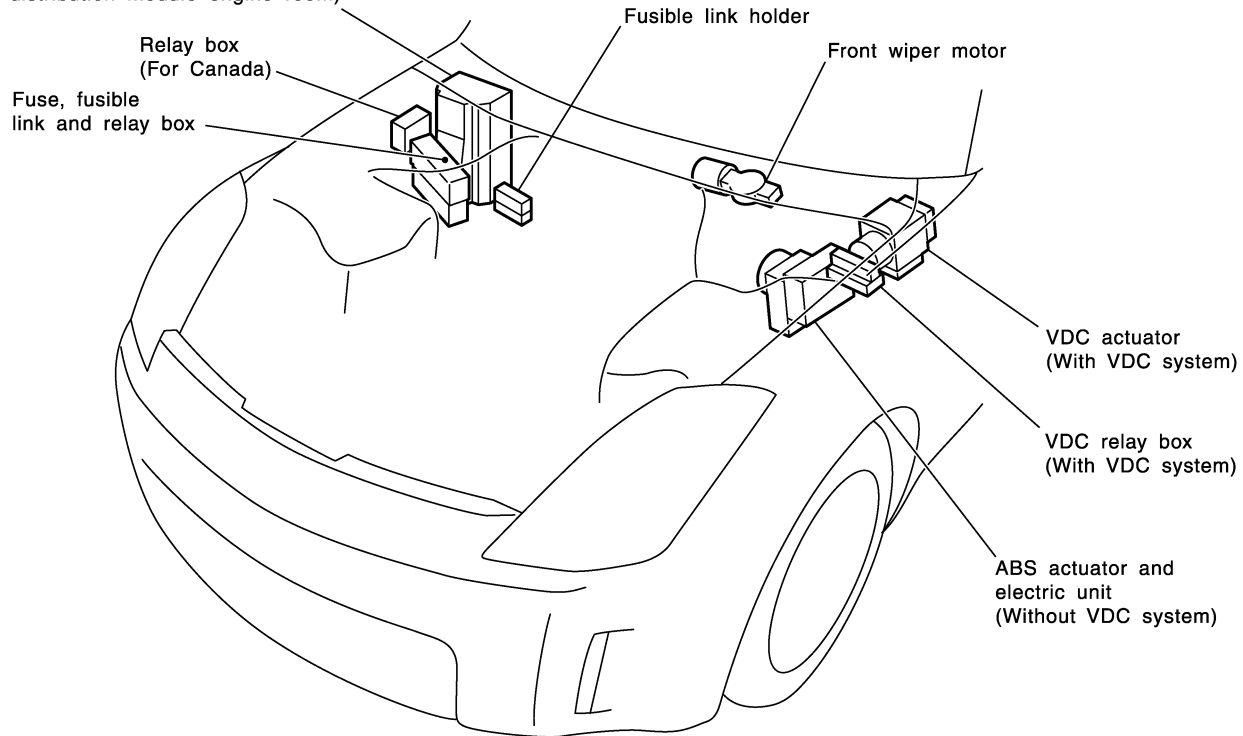
ELECTRICAL UNITS LOCATION

PFP:25230

Electrical Units Location ENGINE COMPARTMENT

NKS000EI

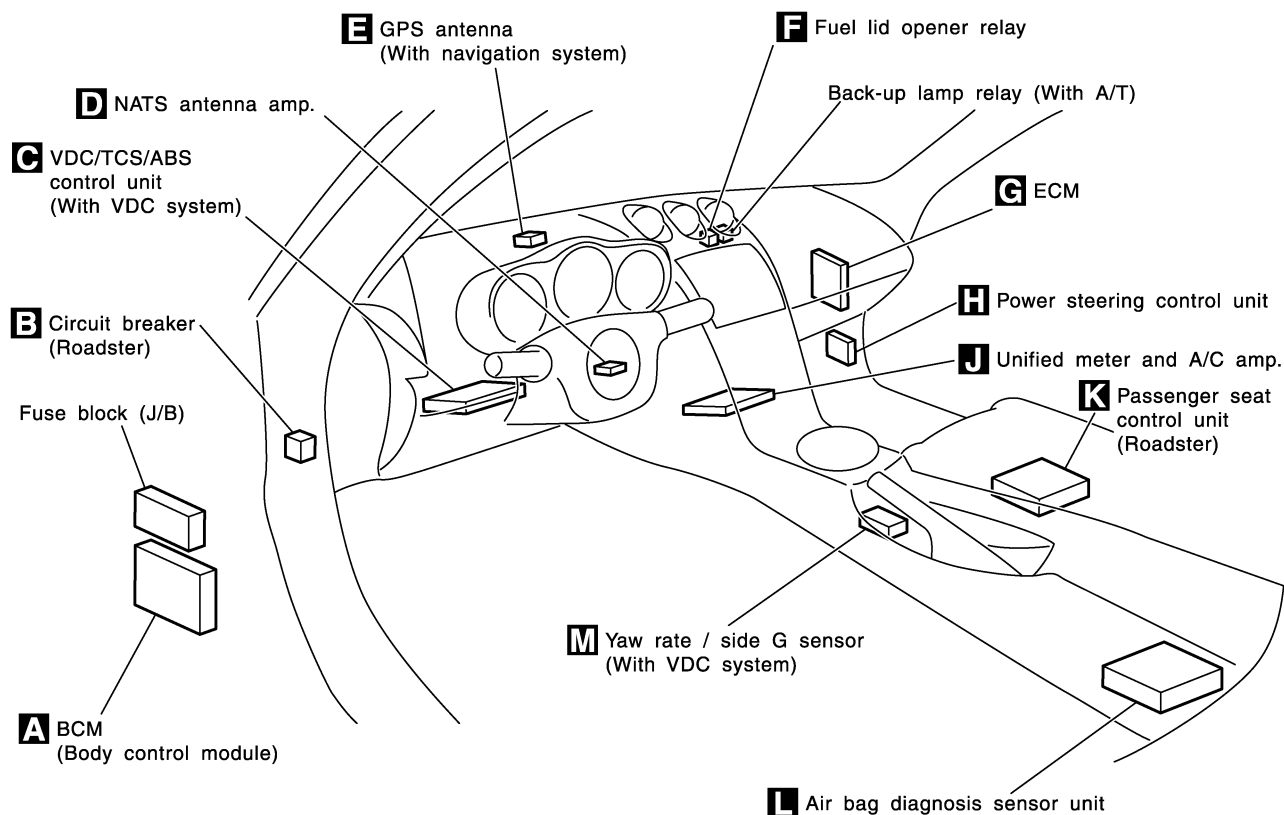
IPDM E/R (Intelligent power
distribution module engine room)



CKIT0739E

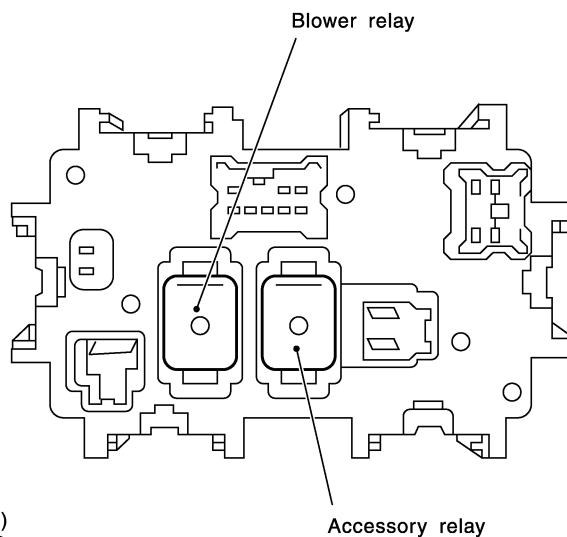
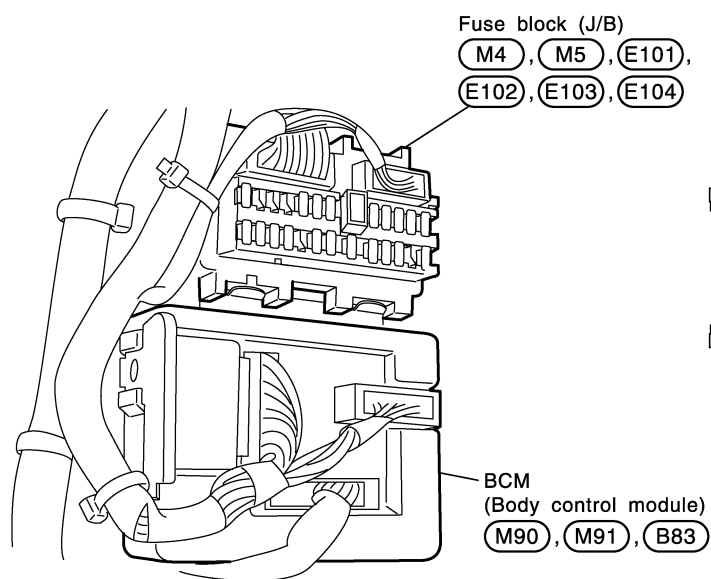
ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT



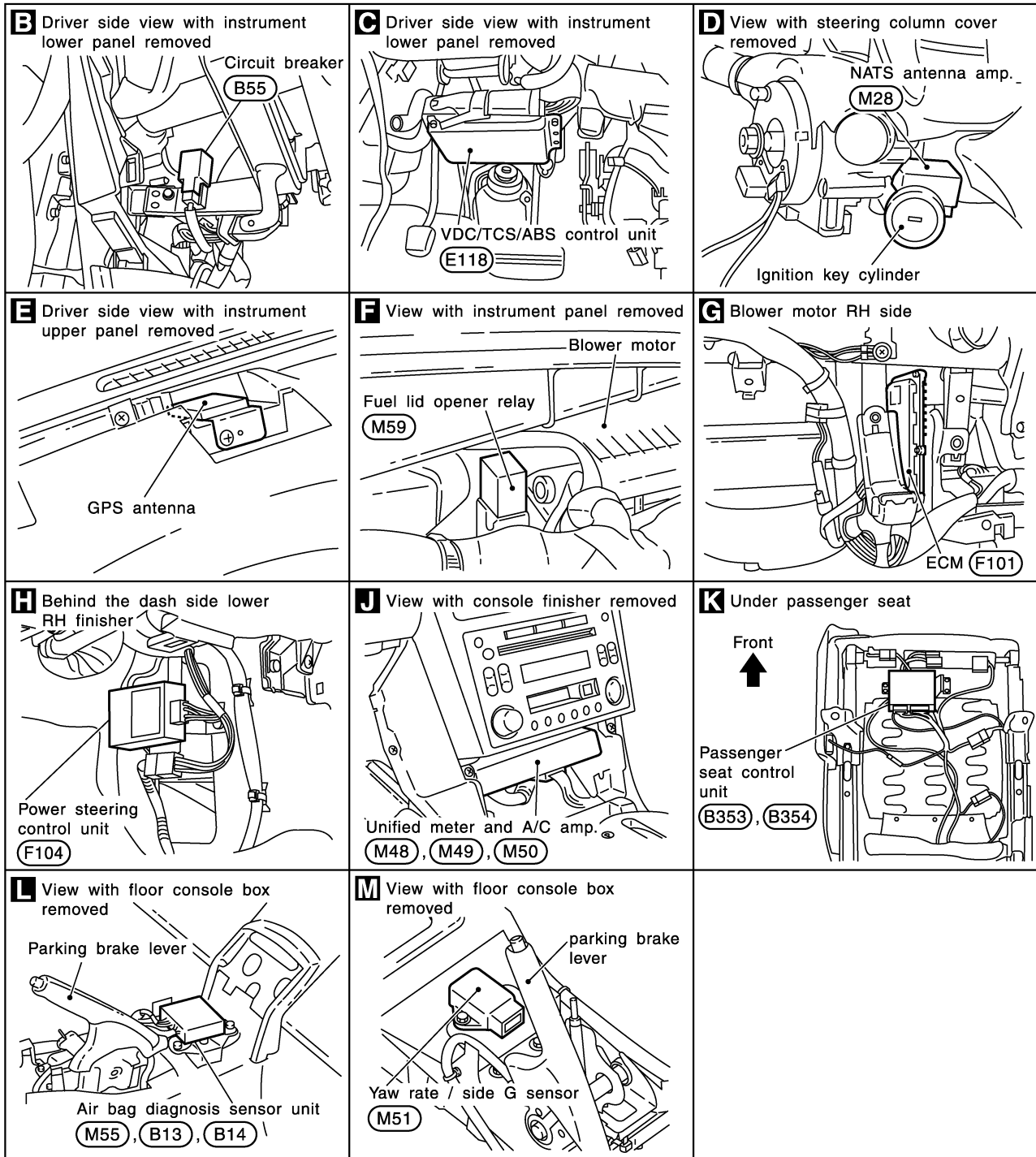
A Behind the dash side lower LH finisher

Fuse block (J/B) rear view



CKIT0740E

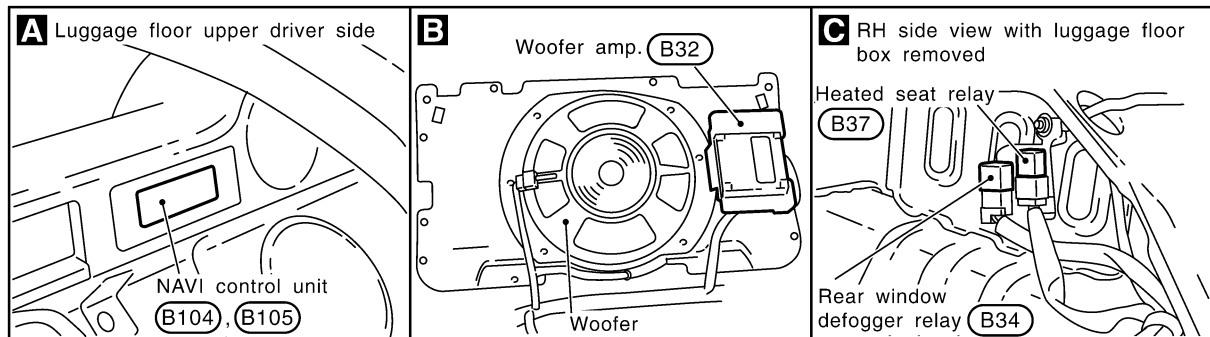
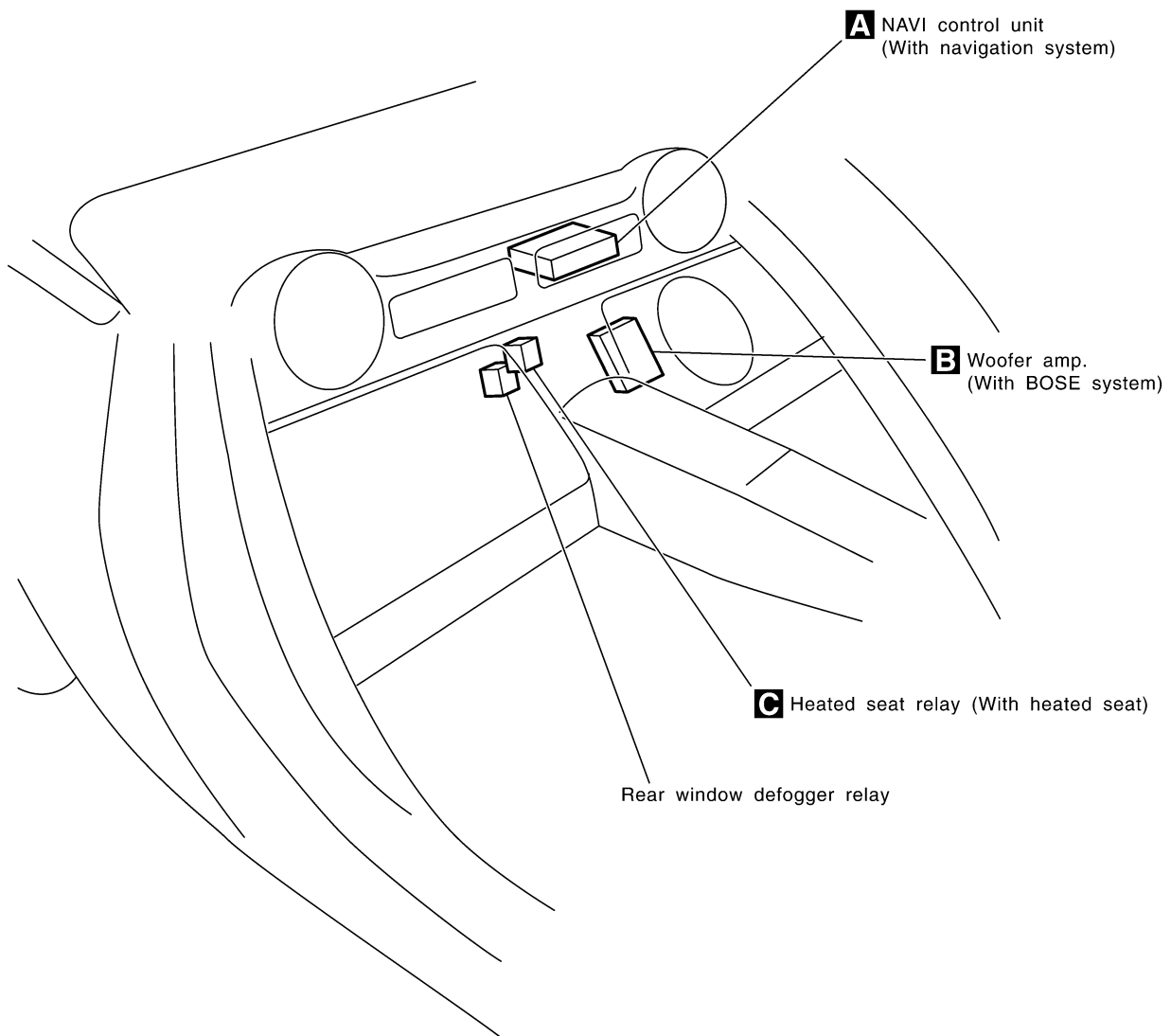
ELECTRICAL UNITS LOCATION



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

CKIT0741E

ELECTRICAL UNITS LOCATION

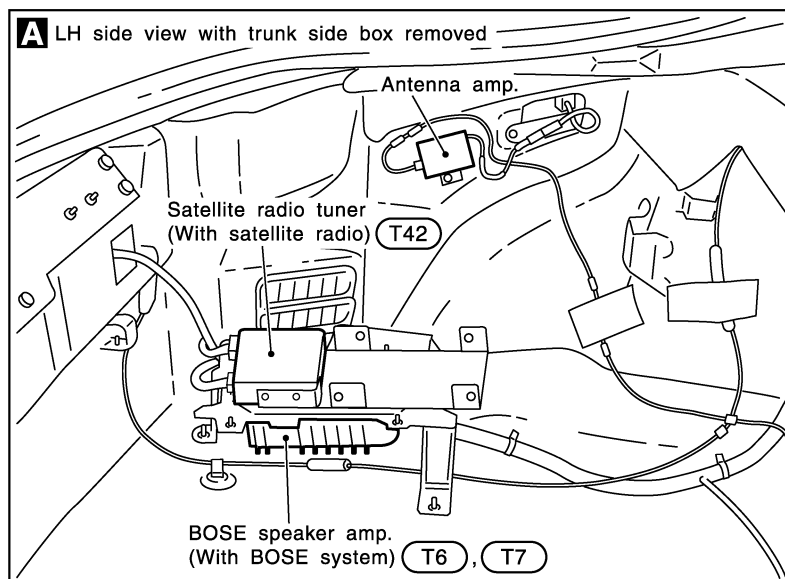
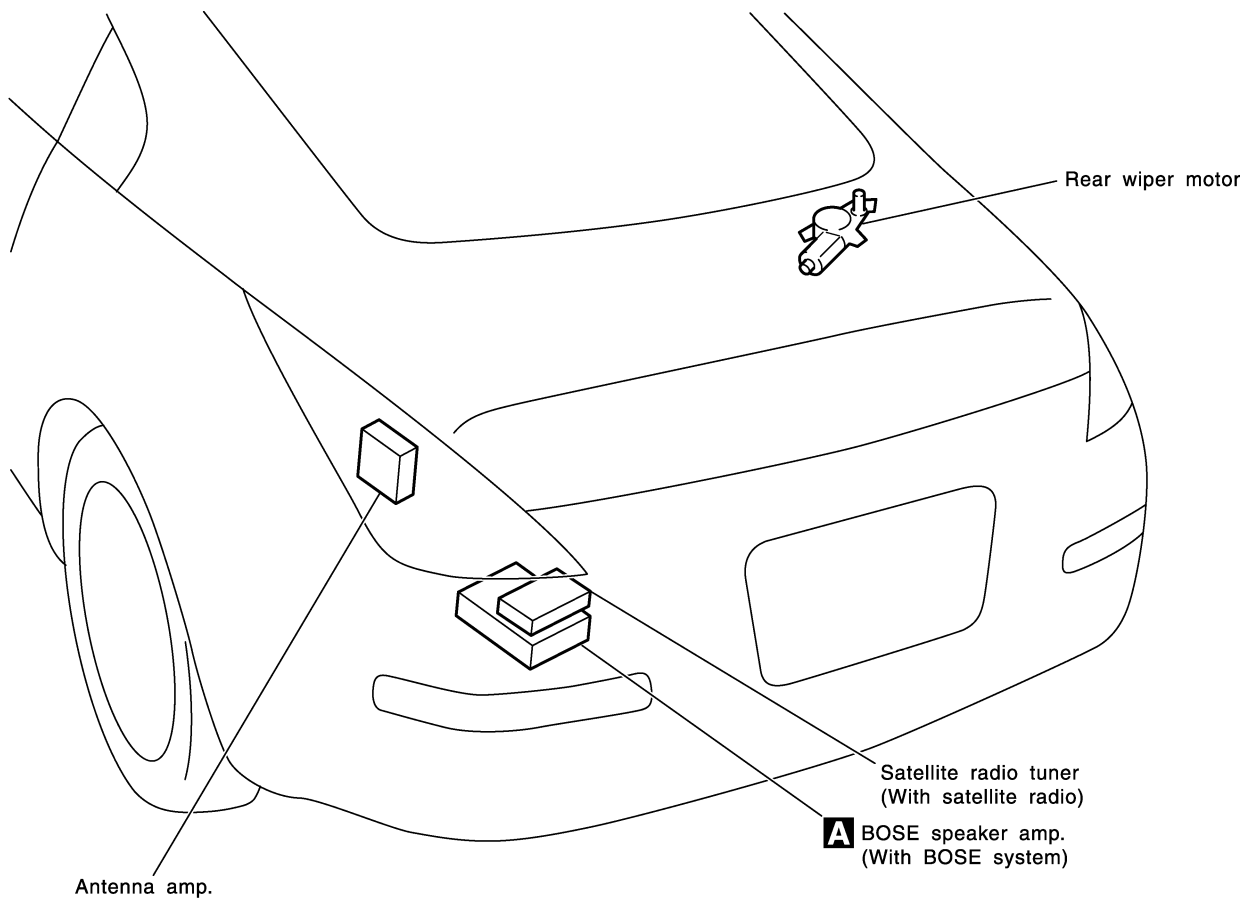


CKIT0349E

ELECTRICAL UNITS LOCATION

LUGGAGE COMPARTMENT

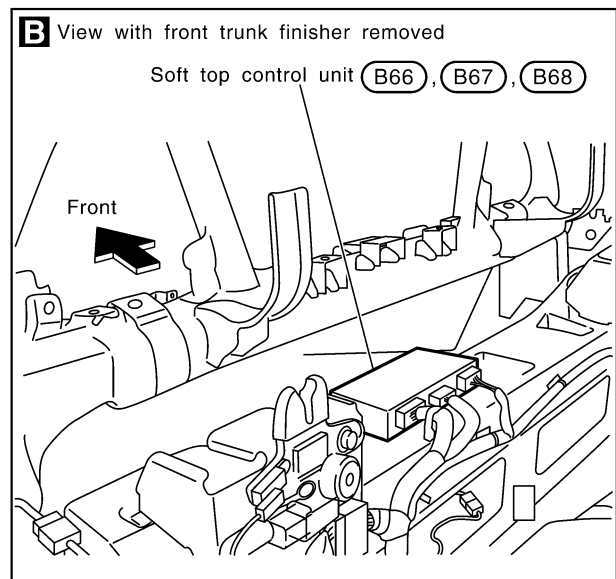
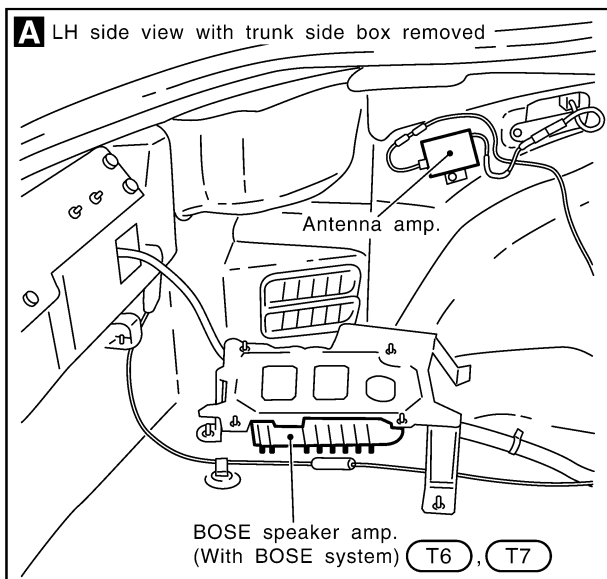
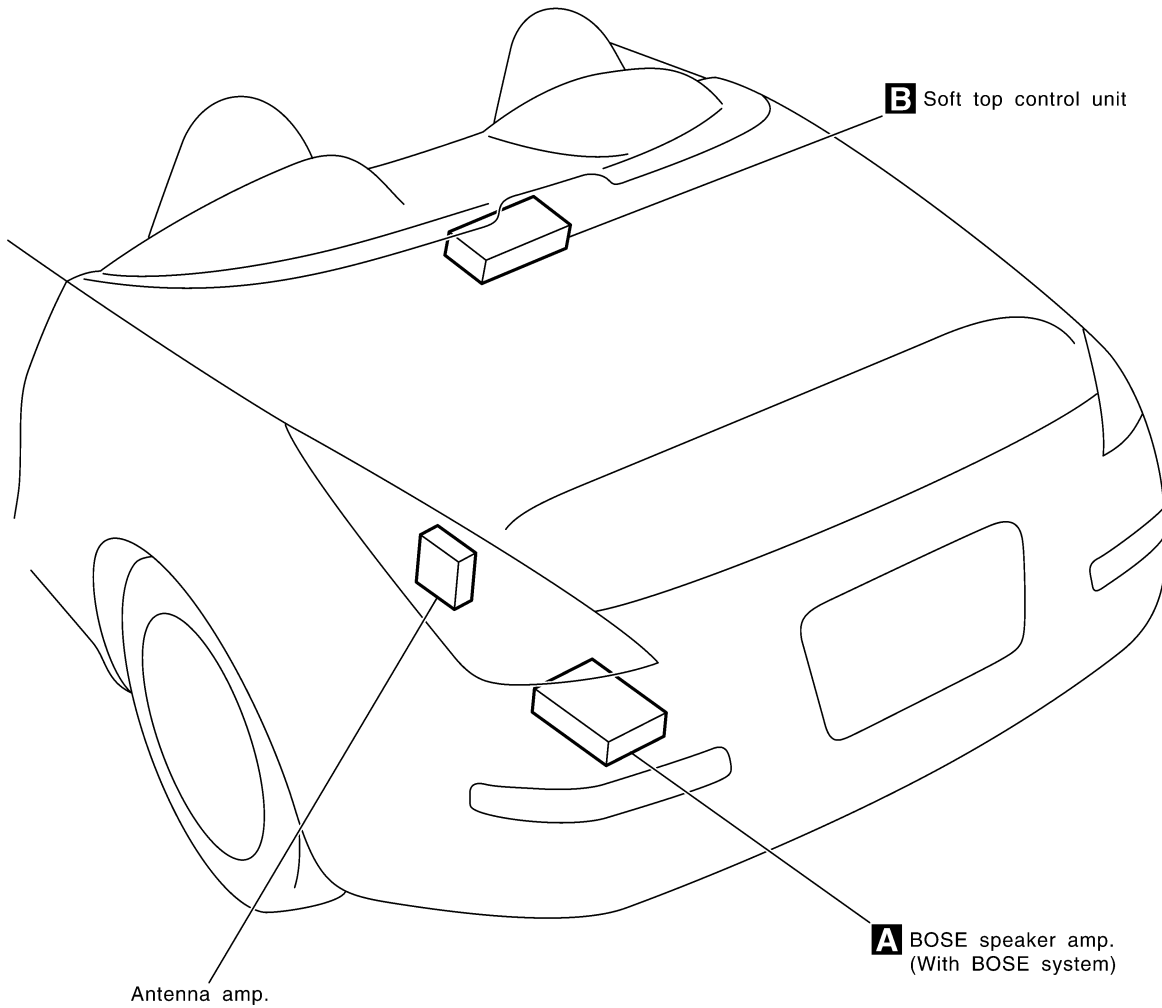
Coupe Models



CKIT0742E

ELECTRICAL UNITS LOCATION

Roadster Models



CKIT0350E

HARNESS CONNECTOR

PPF:00011

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

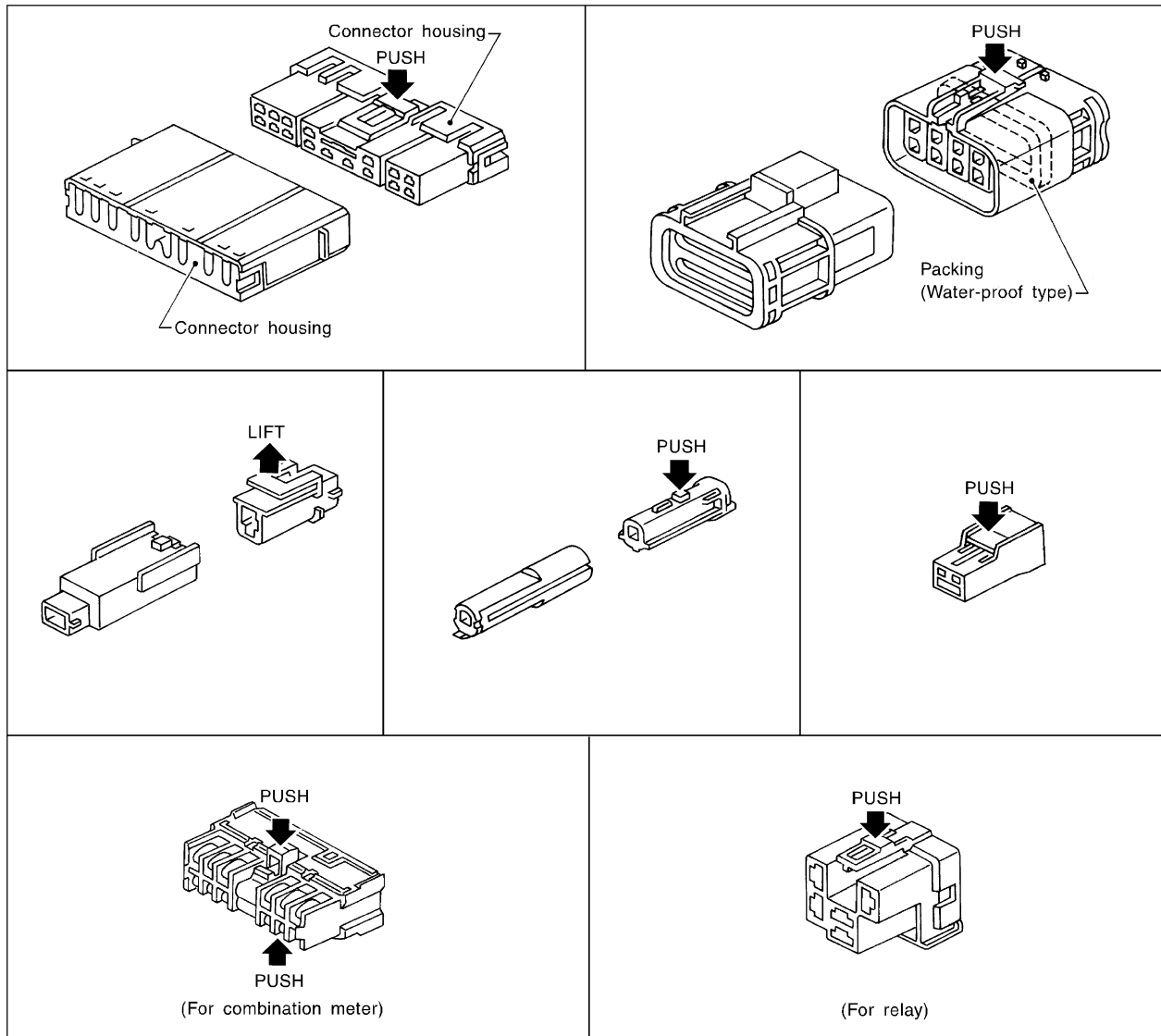
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

CAUTION:

Never pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

HARNESS CONNECTOR

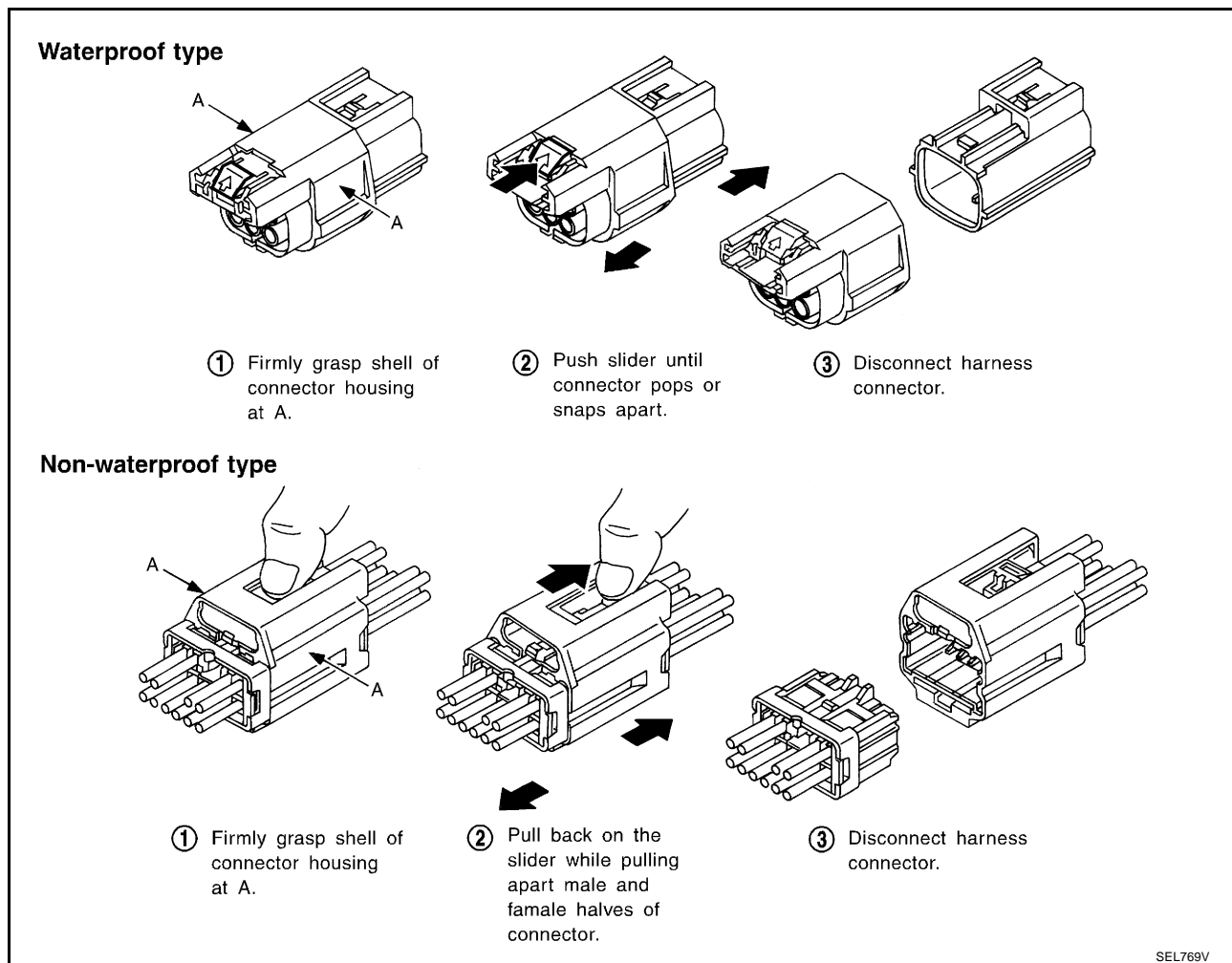
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

CAUTION:

- **Never pull the harness or wires when disconnecting the connector.**
- **Be careful not to damage the connector support bracket when disconnecting the connector.**

[Example]

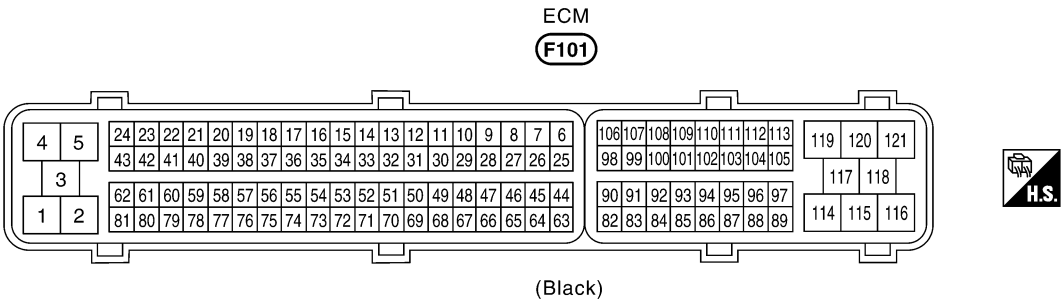


ELECTRICAL UNITS

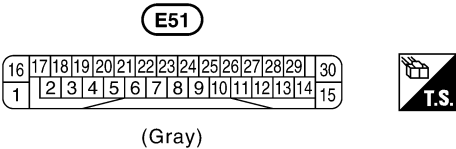
ELECTRICAL UNITS
Terminal Arrangement

PPF:00011

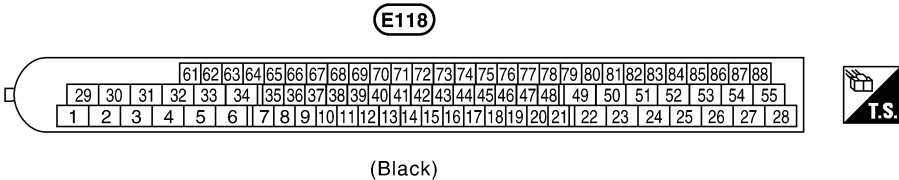
NKS000EK



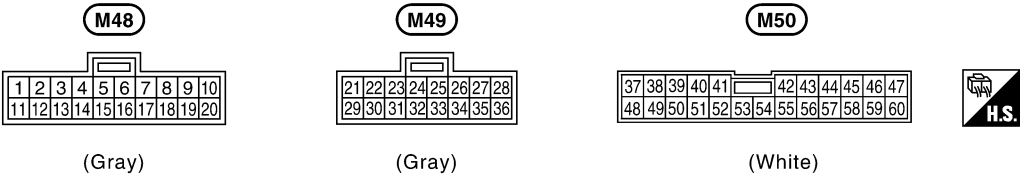
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



VDC/TCS/ABS CONTROL UNIT



UNIFIED METER AND A/C AMP.



ELECTRICAL UNITS

BCM (BODY CONTROL MODULE)

M90

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40



(White)

M91

41	42	43	44	45	46	47	48	49
50	51	52	53	54	55			

(Black)

B83

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			



(White)

SMJ (SUPER MULTIPLE JUNCTION)

SMJ (SUPER MULTIPLE JUNCTION)

Terminal Arrangement

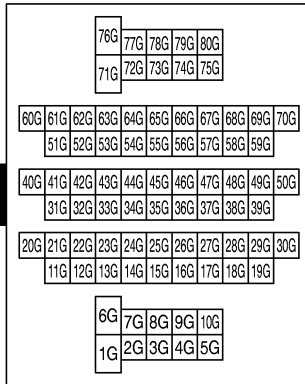
PFP:B4341

NKS000EL

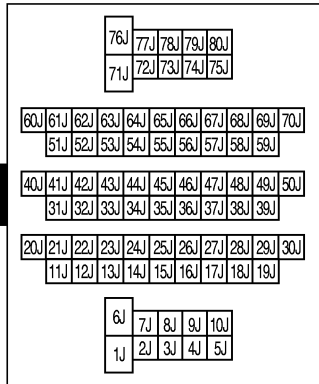
MAIN HARNESS



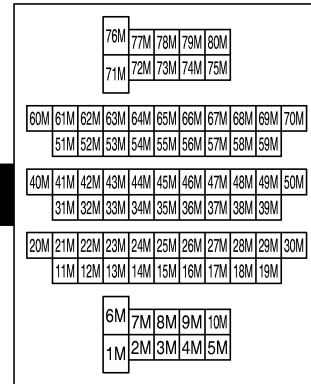
(M15) (White)



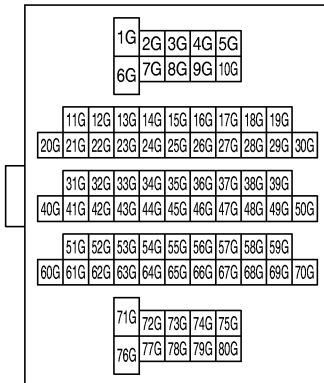
(M12) (White)



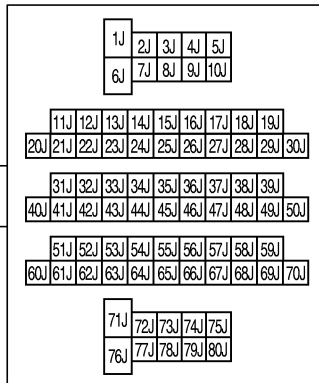
(M73) (White)



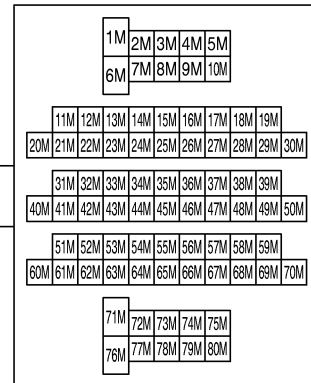
(E108) (White)



(B1) (White)



(B101) (White)



ENGINE ROOM HARNESS

BODY HARNESS

BODY NO. 2 HARNESS

CKIT0743E

SMJ (SUPER MULTIPLE JUNCTION)



MAIN HARNESS

(M72) (White)

6H	7H	8H	9H	10H	21H	22H	23H	24H	25H	26H	27H	28H	29H	39H	40H	41H	42H	43H	44H	45H	46H		
1H	2H	3H	4H	5H	11H	12H	13H	14H	15H	16H	17H	18H	19H	20H	30H	31H	32H	33H	34H	35H	36H	37H	38H

1H	2H	3H	4H	5H	11H	12H	13H	14H	15H	16H	17H	18H	19H	20H	30H	31H	32H	33H	34H	35H	36H	37H	38H
6H	7H	8H	9H	10H	21H	22H	23H	24H	25H	26H	27H	28H	29H	39H	40H	41H	42H	43H	44H	45H	46H		

(F102) (White)

ENGINE CONTROL HARNESS



MAIN HARNESS

(M11) (White)

20K	21K	22K	23K	24K	25K	26K	27K	36K	37K	38K	39K
11K	12K	13K	14K	15K	16K	17K	18K	32K	33K	34K	35K
1K	2K	3K	4K	5K	6K	7K	8K	28K	29K	30K	31K

(M74) (White)

20L	21L	22L	23L	24L	25L	26L	27L	36L	37L	38L	39L
11L	12L	13L	14L	15L	16L	17L	18L	32L	33L	34L	35L
1L	2L	3L	4L	5L	6L	7L	8L	28L	29L	30L	31L

(D1) (White)

1K	2K	3K	4K	5K	6K	7K	8K	9K	10K	28K	29K	30K	31K
11K	12K	13K	14K	15K	16K	17K	18K	32K	33K	34K	35K		
20K	21K	22K	23K	24K	25K	26K	27K	36K	37K	38K	39K		

(D31) (White)

1L	2L	3L	4L	5L	6L	7L	8L	9L	10L	28L	29L	30L	31L
11L	12L	13L	14L	15L	16L	17L	18L	32L	33L	34L	35L		
20L	21L	22L	23L	24L	25L	26L	27L	36L	37L	38L	39L		

FRONT DOOR HARNESS (DRIVER SIDE)

FRONT DOOR HARNESS (PASSENGER SIDE)

CKIT0158E

STANDARDIZED RELAY

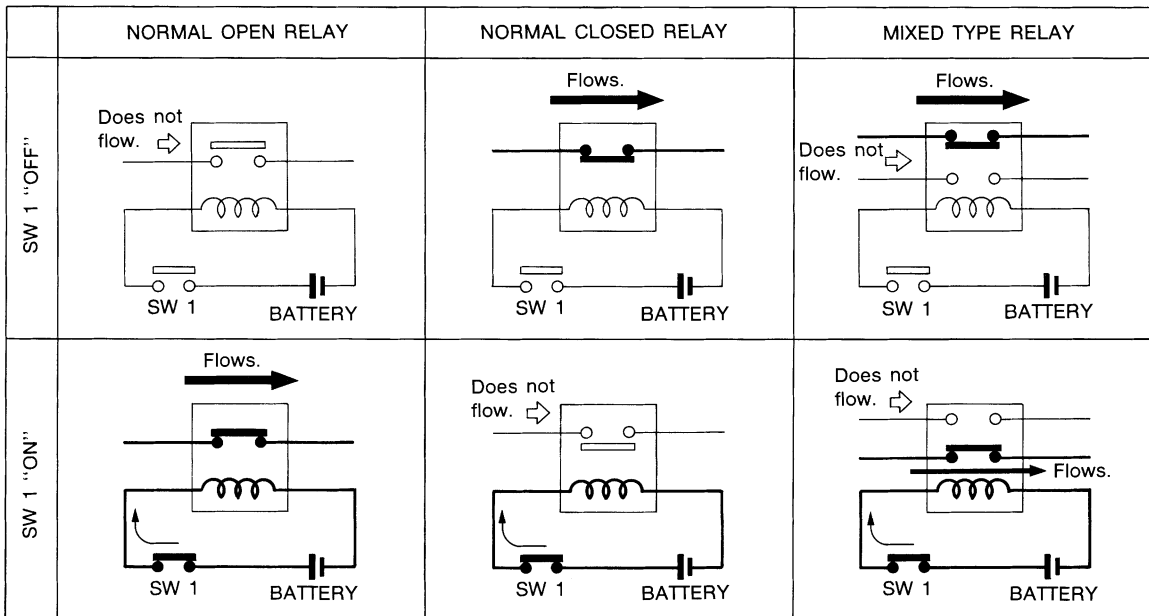
STANDARDIZED RELAY

PFP:00011

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

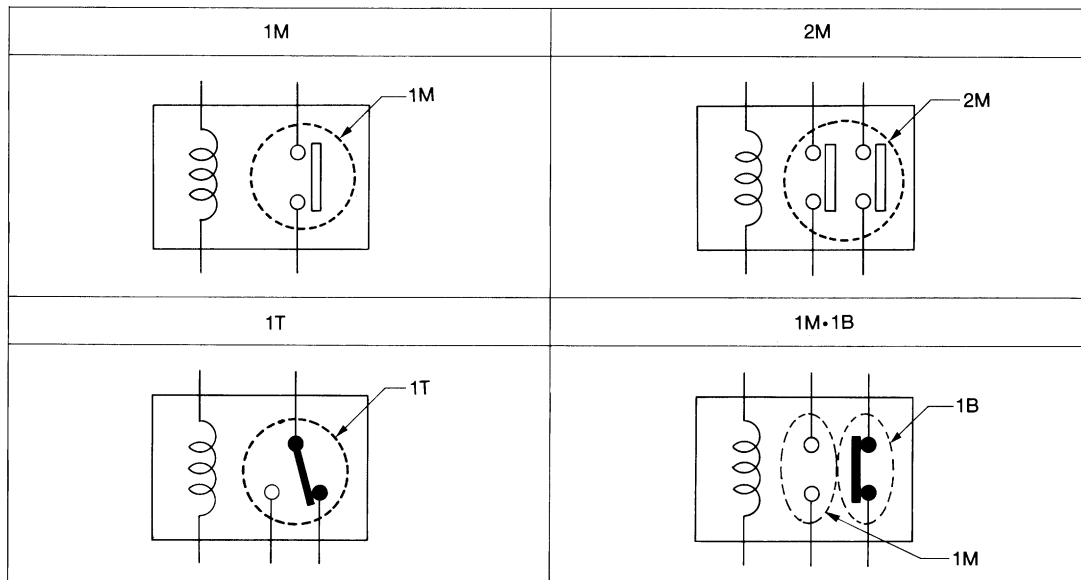
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

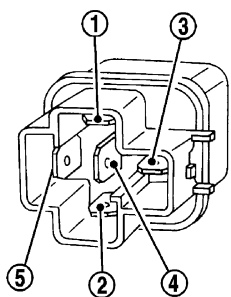
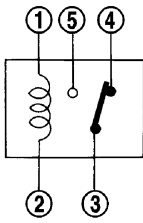
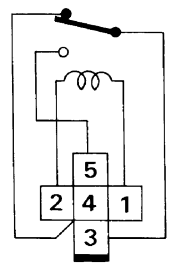
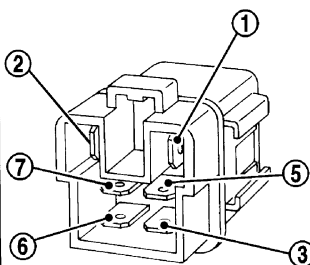
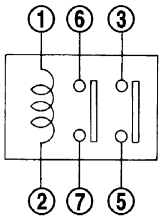
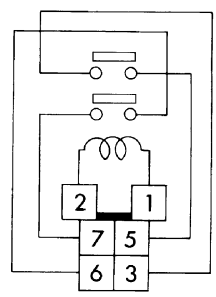
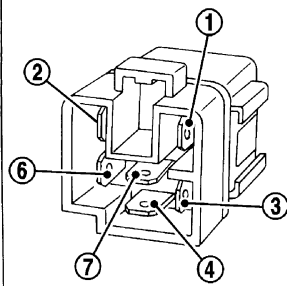
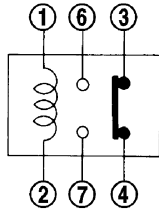
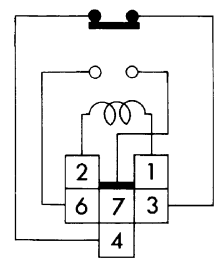
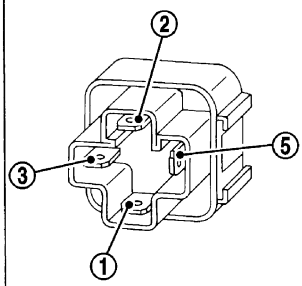
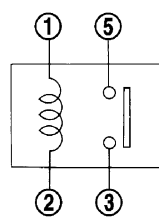
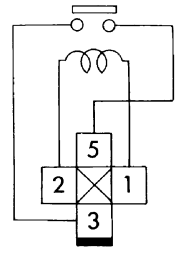
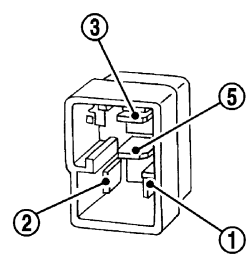
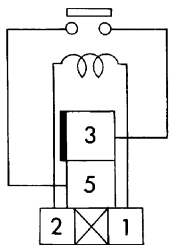
TYPE OF STANDARDIZED RELAYS

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



SEL882H

STANDARDIZED RELAY

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

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

SEL188W

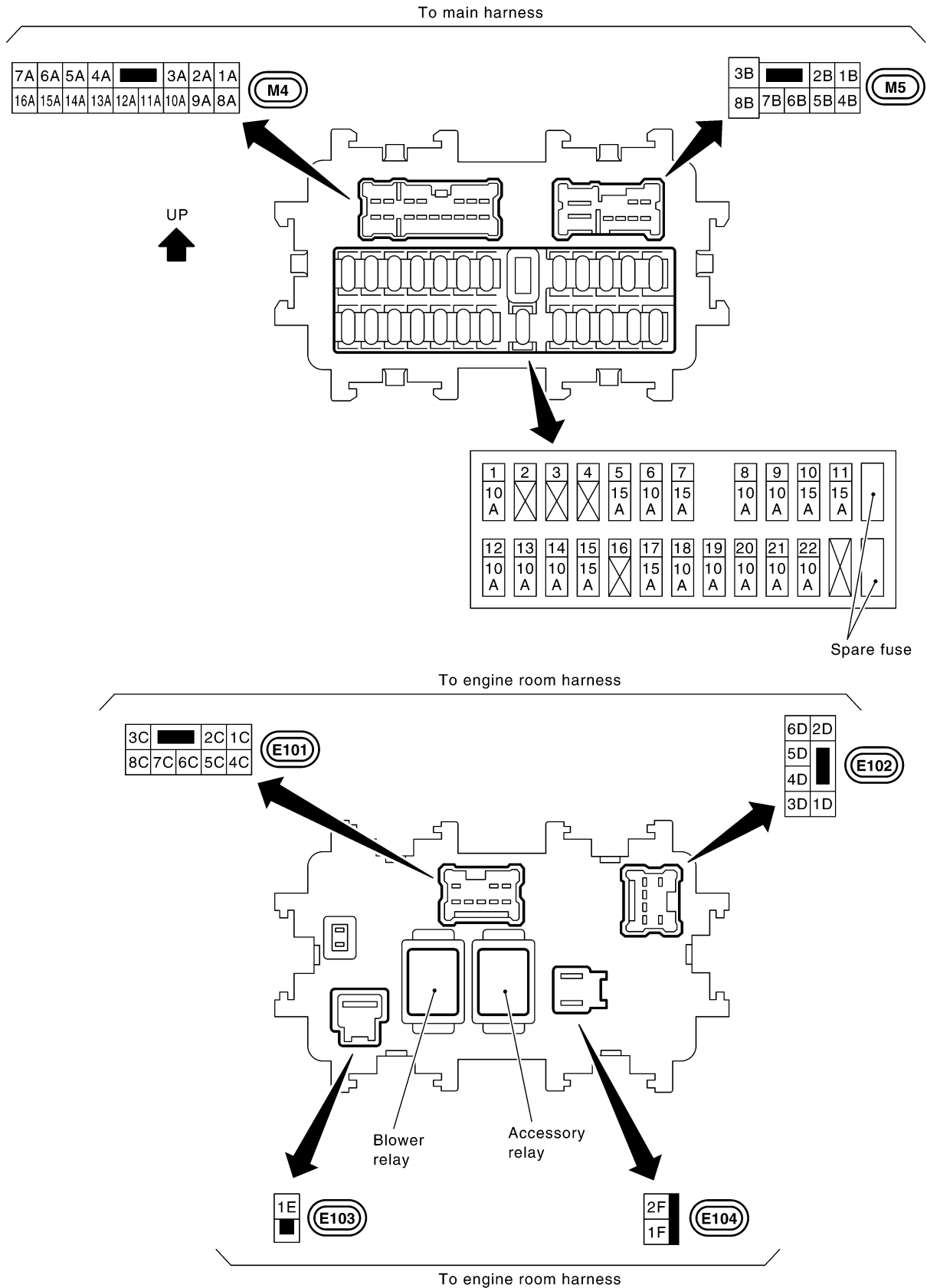
FUSE BLOCK - JUNCTION BOX (J/B)

FUSE BLOCK - JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

NKS000EN



CKIT0363E

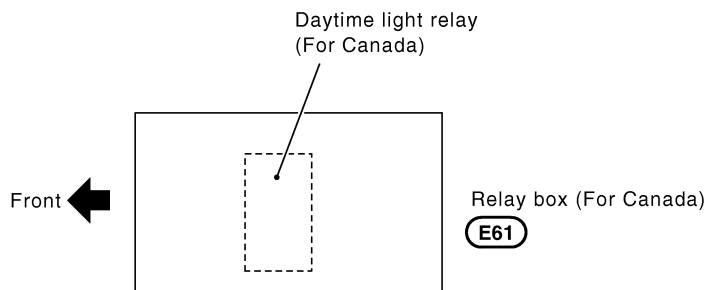
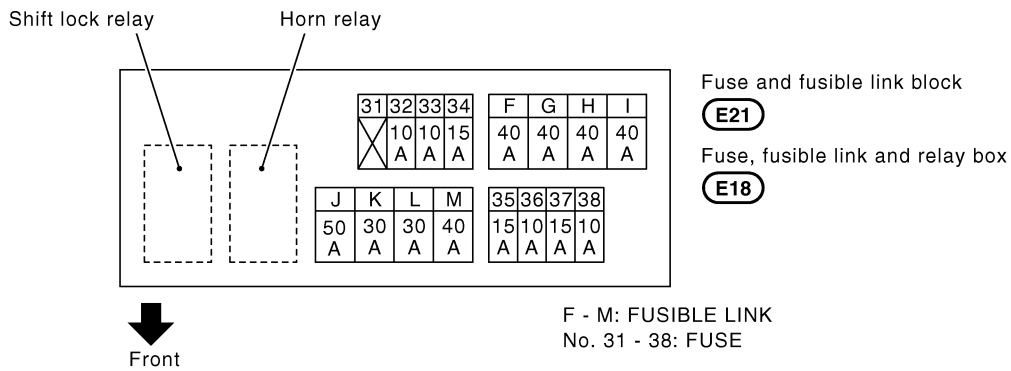
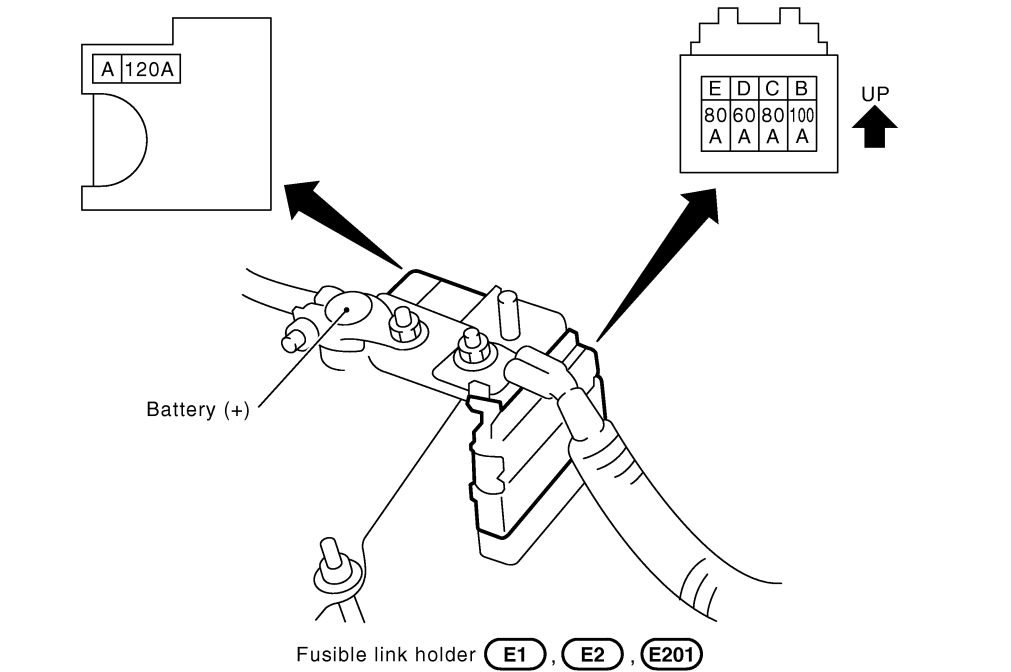
FUSE, FUSIBLE LINK AND RELAY BOX

FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

Terminal Arrangement

NKS000EO



CKIT0744E