POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

PRECAUTIONS PFP:00001

Precautions for Battery Service

KS003RD

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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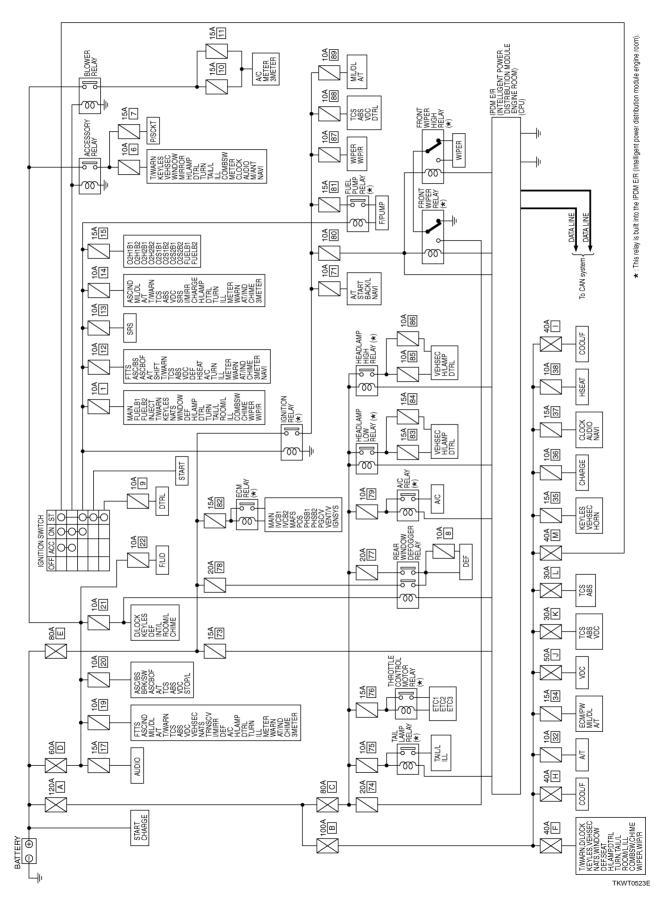
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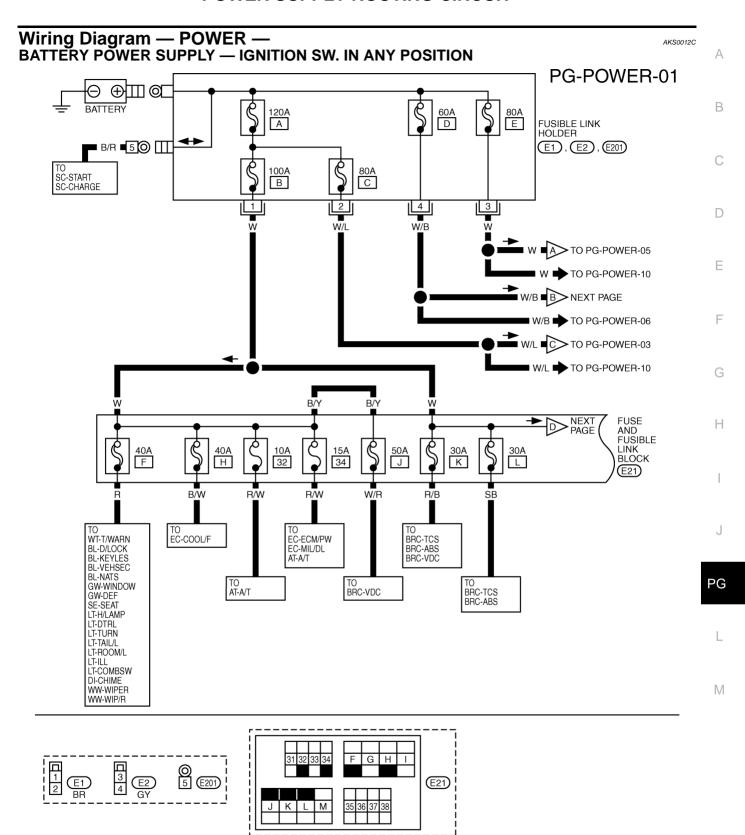
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POWER SUPPLY ROUTING CIRCUIT Schematic

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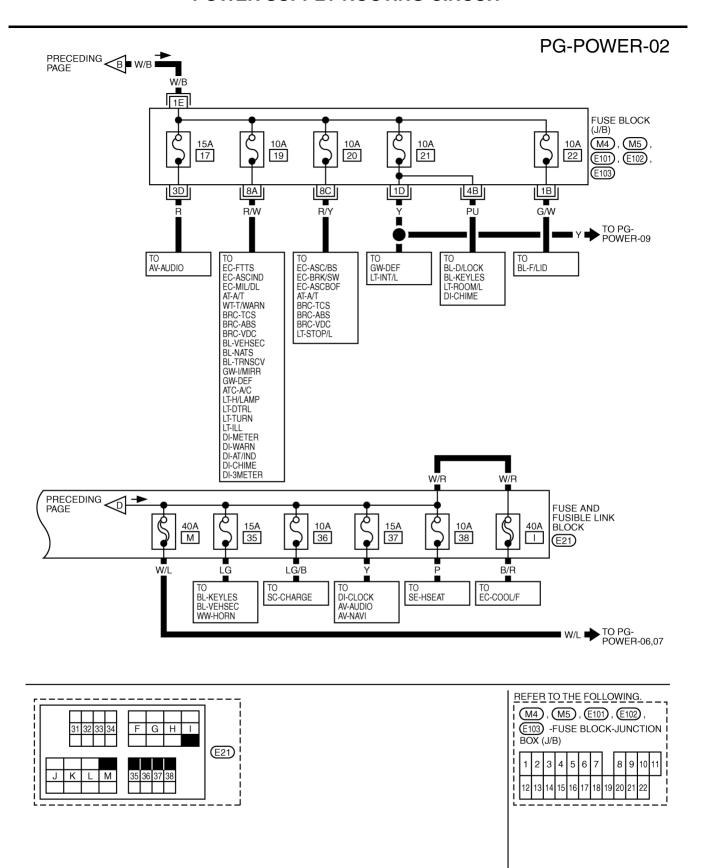
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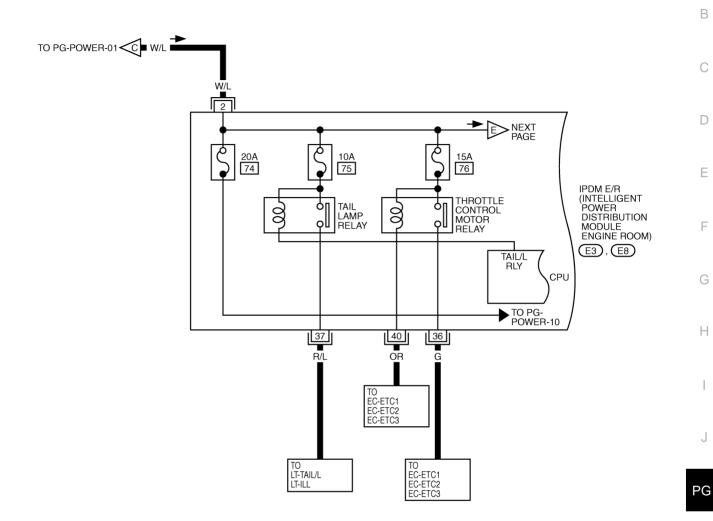
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TKWT0525E

PG-POWER-03





TKWT0526E

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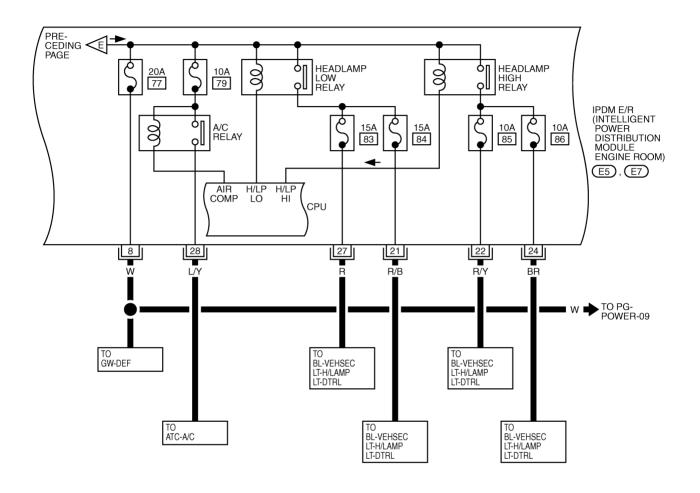
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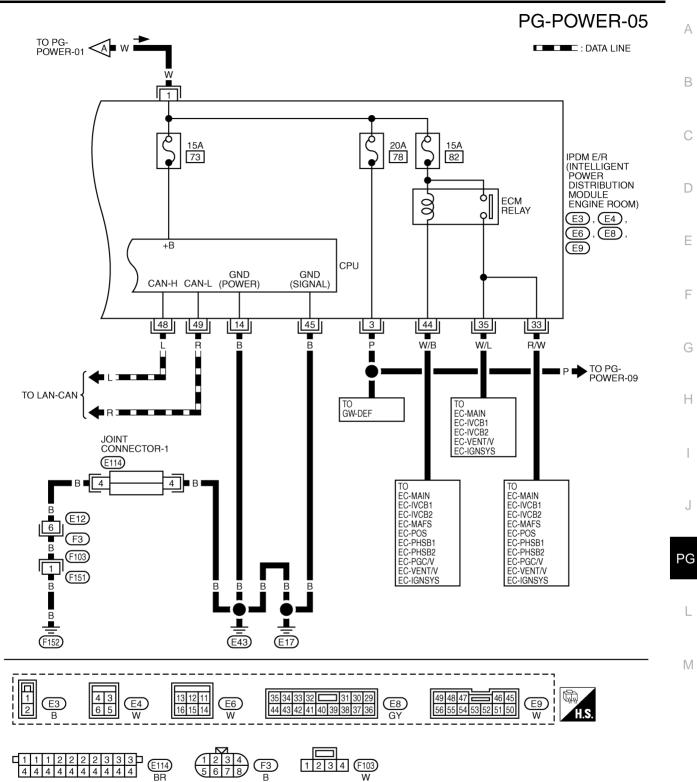
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PG-POWER-04



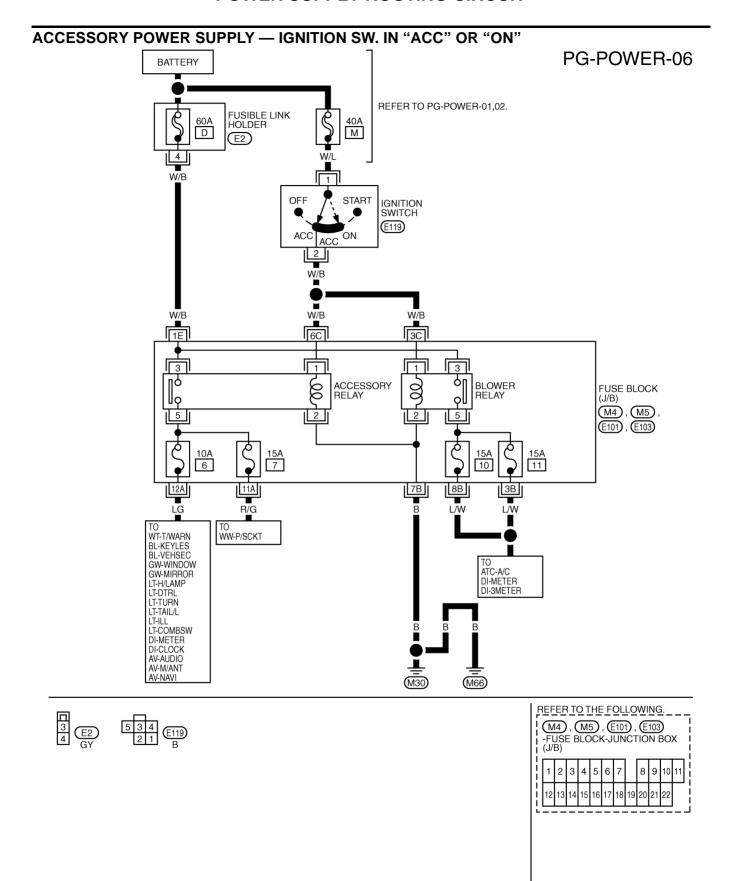


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TKWT0528E

PG-9 2003 350Z Revision; 2004 April

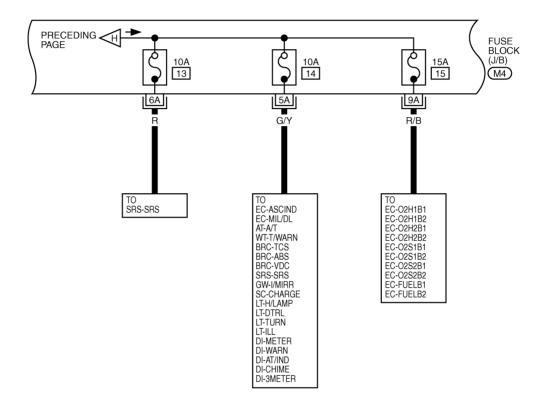


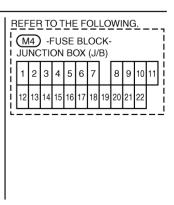
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IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START" Α PG-POWER-07 BATTERY В REFER TO PG-POWER-02. 40A М С TO PG-POWER-11 IGNITION D START OFF SWITCH (E119) ACC ON IGN Е 3 B/R B/R ■G TO PG-POWER-10 F ■ B/R 1F G H NEXT PAGE FUSE BLOCK (J/B) 10A 12 10A (M4), (E101), 1 (E104) Н 2A 1C Y/G Y/G W/L TO EC-FTTS AT-A/T WT-T/WARN TO EC-MAIN EC-FUELB1 EC-ASC/BS EC-ASCBOF EC-FUELB2 EC-INJECT WT-T/WARN AT-SHIFT BRC-TCS BRC-ABS J BL-KEYLES BL-NATS GW-WINDOW **BRC-VDC** GW-DEF SE-HSEAT GW-DEF LT-H/LAMP LT-DTRL LT-TURN LT-ILL PG DI-METER LT-TURN LT-TAIL/L LT-ROOM/L DI-WARN DI-AT/IND LT-ILL LT-COMBSW DI-CHIME DI-CHIME DI-3METER AV-NAVI WW-WIPER WW-WIP/R M REFER TO THE FOLLOWING. 5 3 4 2 1 E119 B M4), (E101), (E104) -FUSE BLOCK-JUNCTION BOX (J/B) 5 6 15 16 17 18 19 20 21 22

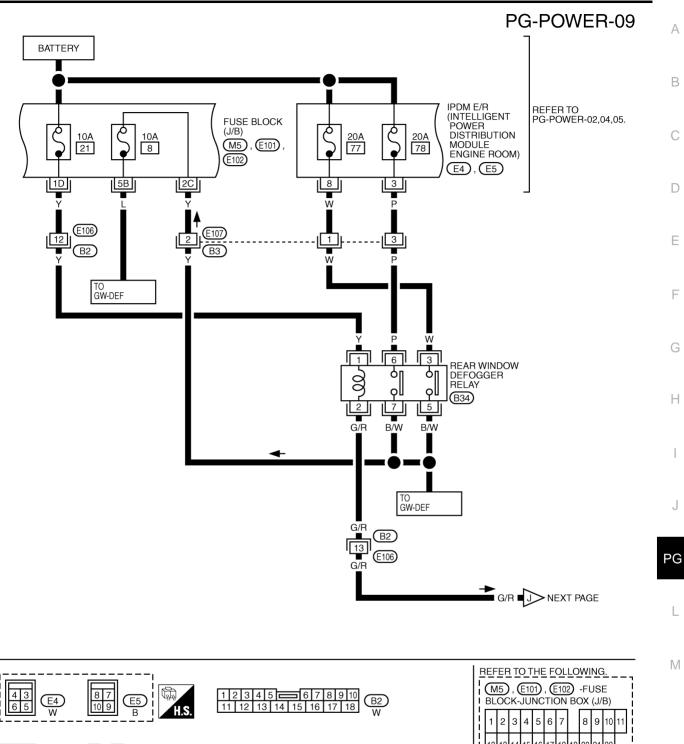
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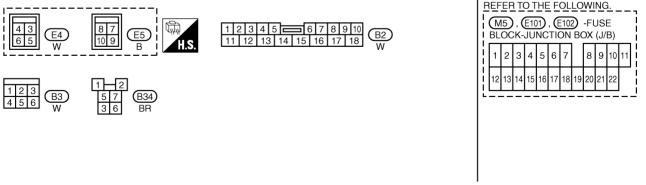
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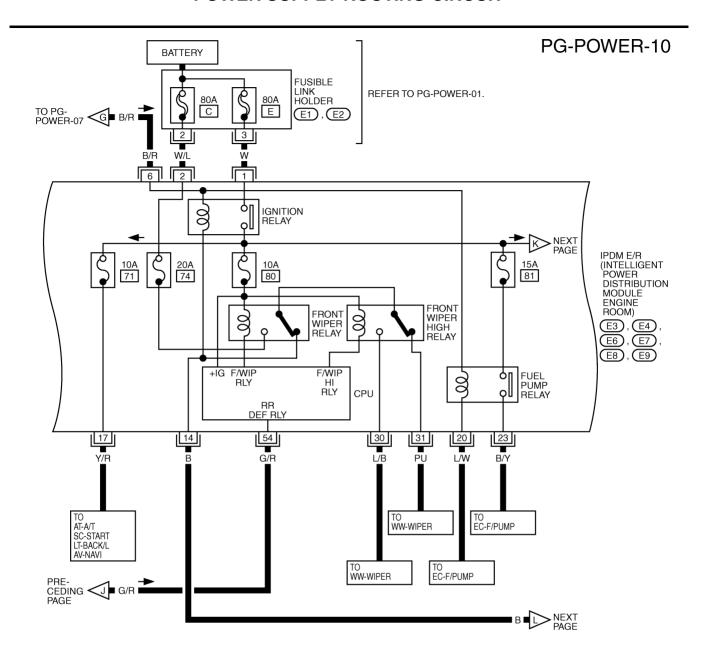


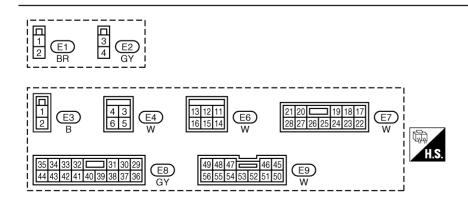
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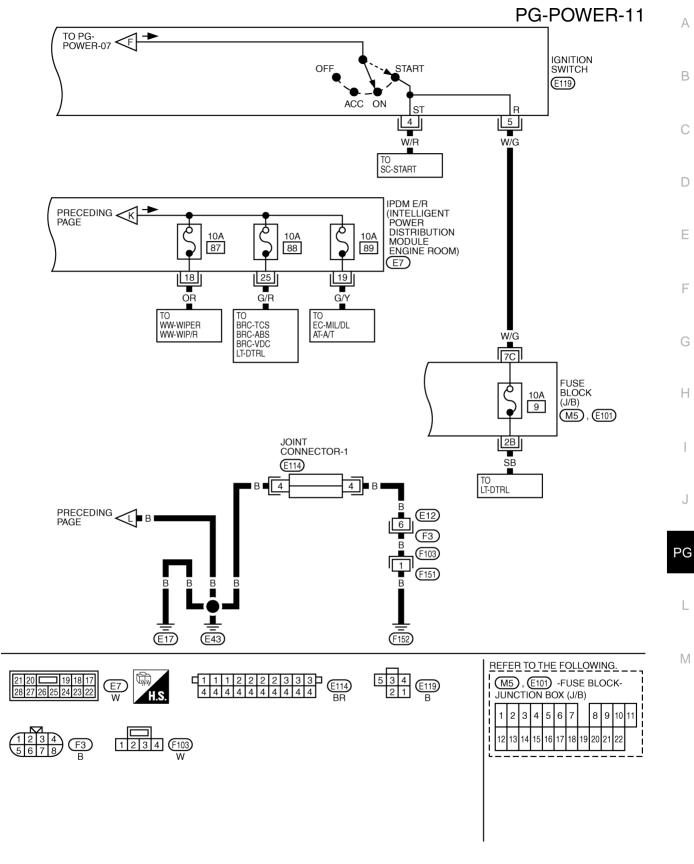


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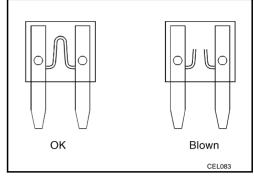


TKWT0534E

Fuse

 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.

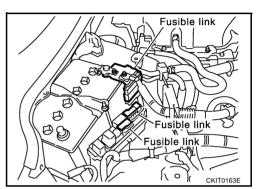


Fusible Link

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. Important: Never let fusible link touch any other wiring harness, vinyl or rubber parts.

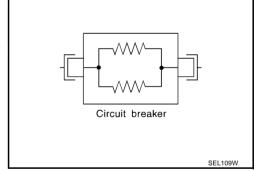


AKS0012E

AKS0012F

Circuit Breaker

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

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- 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 relay via IPDM E/R control circuit.
- IPDM E/R-integrated control circuit performs ON-OFF operation of relay, CAN communication control, etc.
- It controls operation of each electrical part 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 line, it receives signal from BCM and controls the following lamps:

- Head lamps (Hi, Lo)
- Parking lamps
- Tail lamps
- 2. Wiper control

Using CAN communication line, it receives signals from BCM and controls the front wipers.

- Rear window defogger relay control
 Using CAN communication line, it receives signals from BCM and controls the rear window defogger
 relay.
- 4. A/C compressor control Using CAN communication line, it receives signals from ECM and controls the A/C relay.
- Cooling fan control Using CAN communication line, it receives signals from ECM and controls cooling fan relay.
- Horn control Using CAN communication line, 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 maximum amount of information with minimum wiring. Each control unit can transmit and receive data, and reads necessary information only.

- 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	With the ignition switch ON, the headlamp (low) is ON.						
	With the ignition switch OFF, the headlamp (low) is OFF.						
Tail and parking lamps	Tail and parking lamps OFF.						
Cooling fan	With the ignition switch ON, the cooling fan HI operates.						
	With the ignition switch OFF, the cooling fan stops.						
Front wiper Until the ignition switch is turned off, the front wiper LO and HI remains in the same signst before fail-safe control was initiated.							
Rear window defogger	Rear window defogger OFF						
A/C compressor	A/C compressor OFF						

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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.
- 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 hood switch signal is detected, mode switches to CAN communication status.

CAN Communication System Description

AKS003MN

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

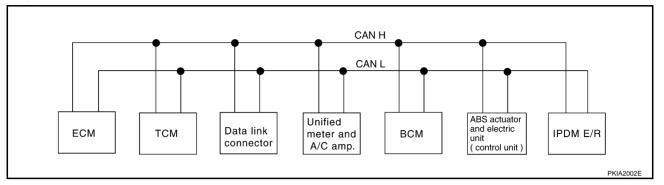
AKS003MN

Body type		Coupe							
Axle				2WD					
Engine		VQ35DE							
Transmission	A/T	A/T M/T							
Brake control	TCS	AE	3S	TO	CS	VI	DC .		
Low tire pressure warning system	Not appli- cable			Not appli- cable	Applica- ble	Not appli- cable	Applica- ble		
	CAN co	ommunication	n unit						
ECM	×	×	×	×	×	×	×		
TCM	×								
Data link connector	×	×	×	×	×	×	×		
Unified meter and A/C amp.	×	×	×	×	×	×	×		
BCM	×	×	×	×	×	×	×		
Low tire pressure warning control unit			×		×		×		
Steering angle sensor						×	×		
ABS actuator and electric unit (control unit)	×	×	×	×	×				
VDC/TCS/ABS control unit						×	×		
IPDM E/R	×	×	×	×	×	×	×		
CAN communication type	PG-19, "TYPE 1"	PG-20, "TYPE 2/ TYPE3"						PG-22, "TYPE 6/ TYPE7"	

^{×:} Applicable

TYPE 1 System diagram

• Type1



Input/output signal chart

T: Transmit R: Receive

					T: Transr	nit R: Receive
Signals	ECM	ТСМ	Unified meter and A/C amp.	всм	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R			Т		
A/C compressor request signal	Т					R
A/C compressor feedback signal	Ţ		R			
Blower fan motor switch signal	R			T		
Cooling fan speed request signal	T					R
Position lights request signal			R	T		R
Low beam request signal				Т		R
Low beam status signal	R					Т
High beam request signal			R	T		R
High beam status signal	R					Т
Vehicle speed signal			R		Т	
veriicie speed signal	R	R	Т	R		
Sleep request 1 signal			R	T		
Sleep request 2 signal				Т		R
Wake up request 1 signal			R	T		
Door switch signal			R	T		R
Turn indicator signal			R	Т		
Seat belt buckle switch signal			Т	R		
Buzzer output signal			R	Т		
Front wiper request signal				Т		R
Front wiper stop position signal				R		Т
Rear window defogger switch signal				Т		R
Rear window defogger control signal	R					Т
Hood switch signal				R		Т
Theft warning horn request signal				Т		R
Horn chirp signal				Т		R

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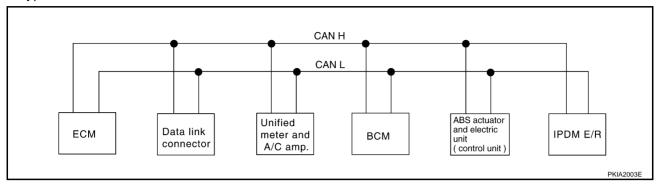
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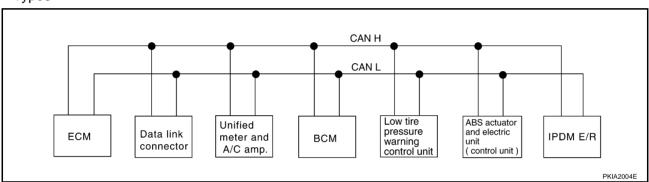
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TYPE 2/TYPE3 System diagram

• Type2



• Type3



Input/output signal chart

T: Transmit R: Receive

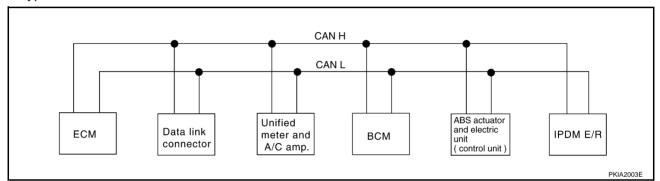
Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R		T			
A/C compressor request signal	Т					R
A/C compressor feedback signal	Т	R				
Blower fan motor switch signal	R		Т			
Cooling fan speed request signal	Т					R
Position lights request signal			R	Т		R
Low beam request signal			T			R
Low beam status signal	R					Т
High beam request signal		R	Ţ			R
High beam status signal	R					Т
Vehicle speed signal		R			Т	
vernicie speed signal	R	Т	R	R		
Sleep request 1 signal		R	Т			
Sleep request 2 signal			Ţ			R
Wake up request 1 signal		R	Т			
Door switch signal		R	Ţ			R
Turn indicator signal		R	Т			
Seat belt buckle switch signal		Т	R			
Buzzer output signal		R	T			

Signals	ECM	Unified meter and A/C amp.	всм	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper request signal			Т			R
Front wiper stop position signal			R			Т
Rear window defogger switch signal			T			R
Rear window defogger control signal	R					Т
Hood switch signal			R			Т
Theft warning horn request signal			Т			R
Horn chirp signal			Т			R

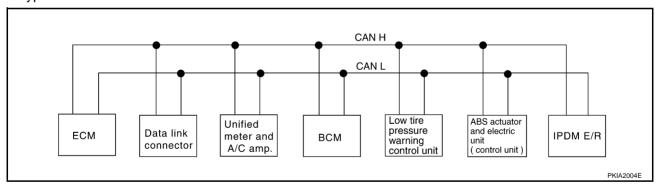
TYPE 4/TYPE5

System diagram

Type4



Type5



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pres- sure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
A/C switch signal	R		T			_
A/C compressor request signal	Т					R
A/C compressor feedback signal	Т	R				
Blower fan motor switch signal	R		Т			
Cooling fan speed request signal	Т					R
Position lights request signal		R	Т			R
Low beam request signal			Т			R
Low beam status signal	R					T

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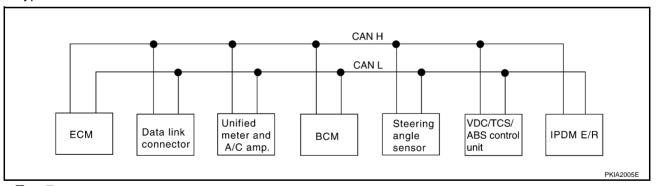
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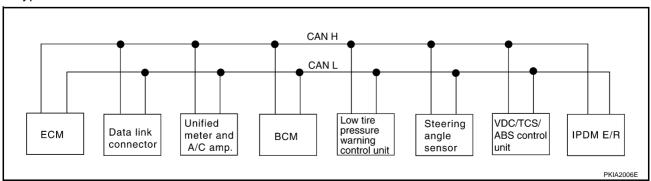
Signals	ECM	Unified meter and A/C amp.	ВСМ	Low tire pressure warning control unit	ABS actuator and electric unit (control unit)	IPDM E/R
High beam request signal		R	Т			R
High beam status signal	R					T
Vehicle speed signal		R			Т	
verlicie speed signal	R	Т	R	R		
Sleep request 1 signal		R	Ţ			
Sleep request 2 signal			Т			R
Wake up request 1 signal		R	Т			
Door switch signal		R	Т			R
Turn indicator signal		R	Т			
Seat belt buckle switch signal		Т	R			
Buzzer output signal		R	Т			
Front wiper request signal			Т			R
Front wiper stop position signal			R			Т
Rear window defogger switch signal			Т			R
Rear window defogger control signal	R					Т
Hood switch signal			R			Т
Theft warning horn request signal			T			R
Horn chirp signal			T			R

TYPE 6/TYPE7 System diagram

Type6



• Type7



Input/output signal chart

				Low tire	0	\/DO/TOC:	
Signals	ECM	Unified meter and A/C amp.	ВСМ	pressure warning con- trol unit	Steering angle sensor	VDC/TCS/ ABS con- trol unit	IPDM E/R
A/C switch signal	R		Т				
A/C compressor request signal	Т						R
A/C compressor feedback signal	Т	R					
Blower fan motor switch signal	R		Т				
Cooling fan speed request signal	Т						R
Position lights request signal		R	Т				R
Low beam request signal			Т				R
Low beam status signal	R						Т
High beam request signal		R	Т				R
High beam status signal	R						Т
Vehicle speed signal		R				Т	
	R	Т	R	R			
Sleep request 1 signal		R	Т				
Sleep request 2 signal			Т				R
Wake up request 1 signal		R	Т				
Door switch signal		R	Т				R
Turn indicator signal		R	Т				
Seat belt buckle switch signal		Т	R				
Buzzer output signal		R	Т				
Front wiper request signal			Т				R
Front wiper stop position signal			R				Т
Rear window defogger switch signal			Т				R
Rear window defogger control signal	R						Т
Hood switch signal			R				Т
Theft warning horn request signal			Т				R
Horn chirp signal			Т				R

Function of Detecting Ignition Relay Malfunction

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When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON tail
and parking lamps for 10 minutes to indicate IPDM E/R malfunction.

NOTE:

When the ignition switch is turned ON, the tail lamp is off.

Auto Active Test DESCRIPTION

4KS0012

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
- Headlamps (Hi, Lo)
- A/C compressor (magnetic clutch)
- Cooling fan

OPERATION PROCEDURE

1. Close hood, 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.
- 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:

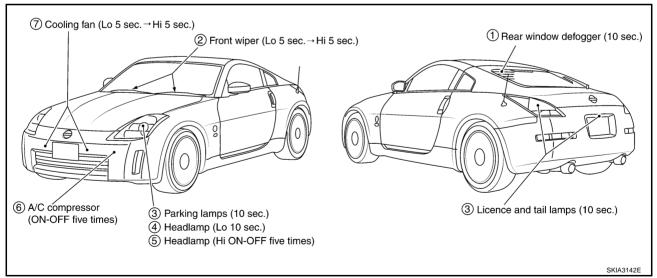
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to inspect BL-71, "Door Switch Check" when the auto active test cannot be performed.

INSPECTION IN AUTO ACTIVE TEST MODE

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



NOTE:

It will take ten seconds from 3 to 4.

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																										
		YES	BCM signal input system																										
Any of front wipers, tail	Perform auto active		Lamp/wiper motor malfunction																										
and parking lamps, and head lamps (Hi, Lo) do	test. Does system in	NO	Lamp/wiper motor ground circuit malfunction																										
not operate.	question operate?	NO	Harness/connector malfunction between IPDM E/R and system in question																										
			IPDM E/R (integrated relay) malfunction																										
	Perform auto active	YES	BCM signal input circuit																										
Rear window defogger	test. Does rear win-		Rear window defogger relay circuit																										
does not operate.	dow defogger oper-	NO	Open circuit of rear window defogger																										
	ate?		IPDM E/R malfunction																										
			BCM signal input circuit																										
																													YES
A/C compressor does	Perform auto active test. Does magnetic		CAN communication signal between ECM and IPDM E/R																										
not operate.	clutch operate?				9	9	9	9		Magnetic clutch malfunction																			
	-	NO	Harness/connector malfunction between IPDM E/R and magnetic clutch																										
			IPDM E/R (integrated relay) malfunction																										
		YES	ECM signal input circuit																										
Cooling fan does not operate.	Perform auto active	ILS	CAN communication signal between ECM and IPDM E/R																										
	test. Does cooling		Cooling fan motor malfunction																										
	fan operate?	NO	Harness/connector malfunction between IPDM E/R and cooling fan motor																										
			IPDM E/R (integrated relay) malfunction																										

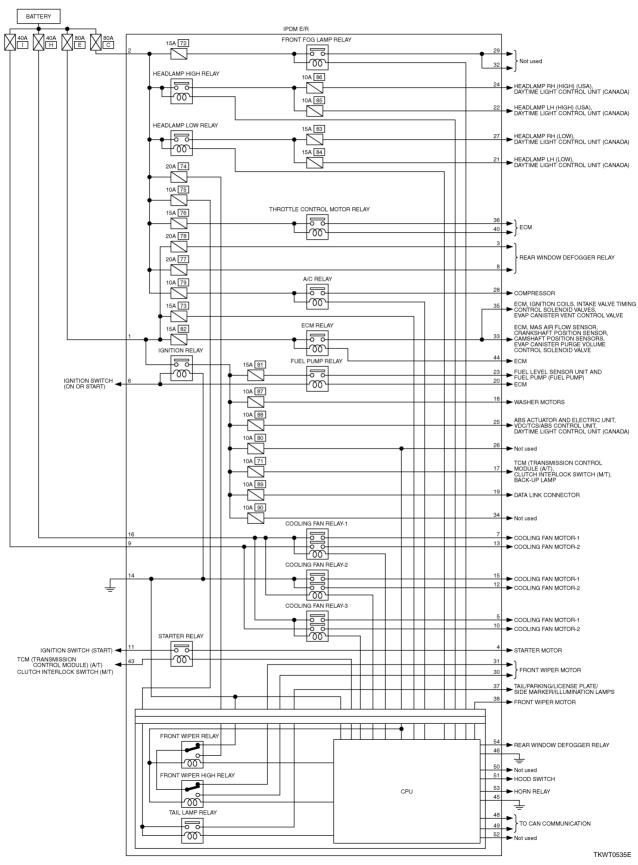
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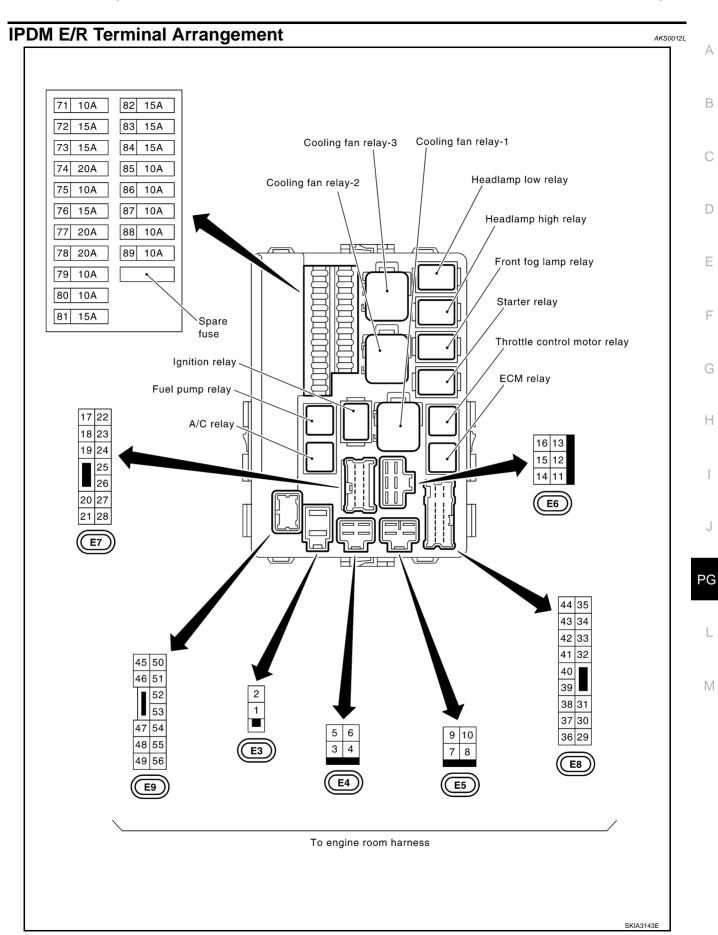
L

Schematic AKS0012K



NOTE:

Front fog lamp relay does not used.



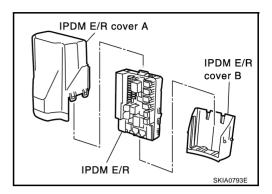
NOTE:

Front fog lamp relay does not used.

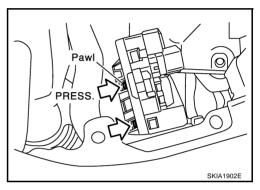
IPDM E/R Terminal Inspection

AKS0012M

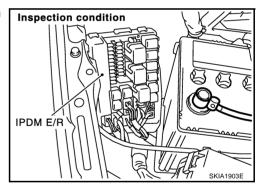
- 1. Remove hood ledge cover. Refer to SC-9, "Removal and Installation".
- 2. Remove cowl top cover (right). Refer to EI-20, "COWL TOP".
- 3. Pull up to remove IPDM E/R cover A.



4. While pressing pawl on back side of IPDM E/R cover "B" toward vehicle front to unlock, lift up IPDM E/R.



5. Be sure to incline IPDM E/R when placing it. Then perform inspection on each terminal.



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	Battery power	F/L-C, F/L-E, 73
_	Ignition power	80

OK or NG?

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

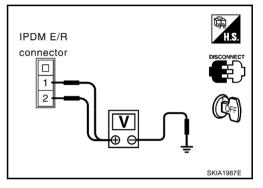
- 1. Disconnect IPDM E/R harness connector E3.
- 2. Check voltage between IPDM E/R harness connector E3 terminals 1 (W), 2 (W/L) and ground.

Battery voltage should exist

OK or NG

OK >> GO TO 3.

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



3. GROUND CIRCUIT INSPECTION

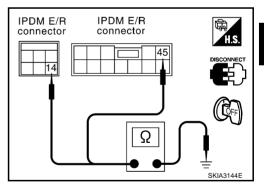
- 1. Disconnect IPDM E/R harness connectors E6 and E9.
- Check continuity between IPDM E/R harness connectors E6 terminal 14 (B), E9 terminal 45 (B) and ground.

Continuity should exist

OK or NG

OK >> Inspection end.

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



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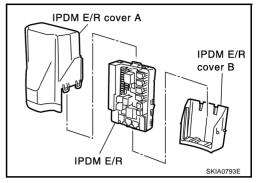
PG

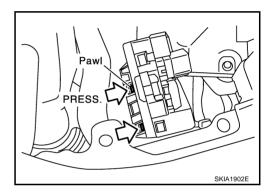
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Removal and Installation of IPDM E/R REMOVAL

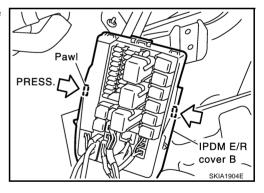
AKS00120

- Remove battery. Refer to <u>SC-9, "Removal and Installation"</u> in "Starting and Charging System (SC)" section.
- 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

Install in the reverse order of removal.

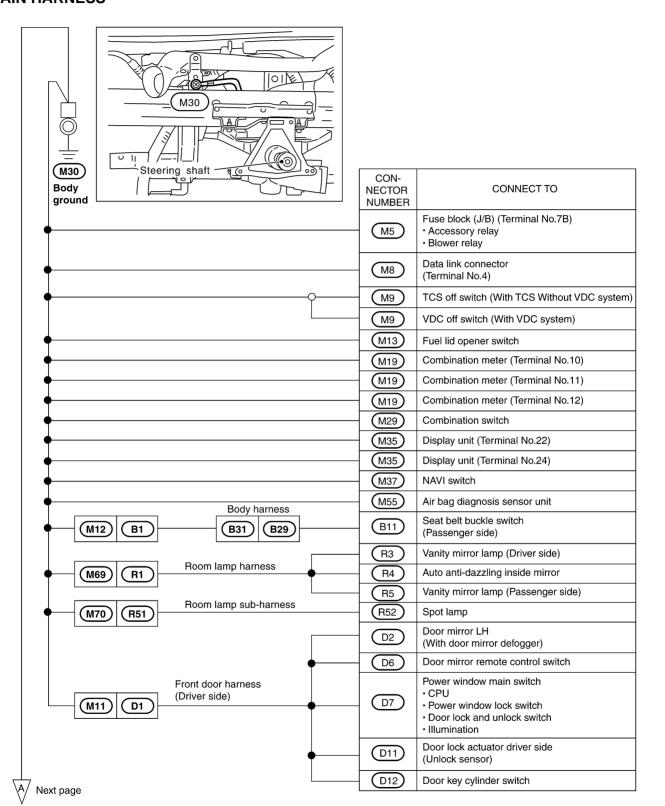
GROUND PFP:00011

Ground Distribution MAIN HARNESS

AKS0012P

В

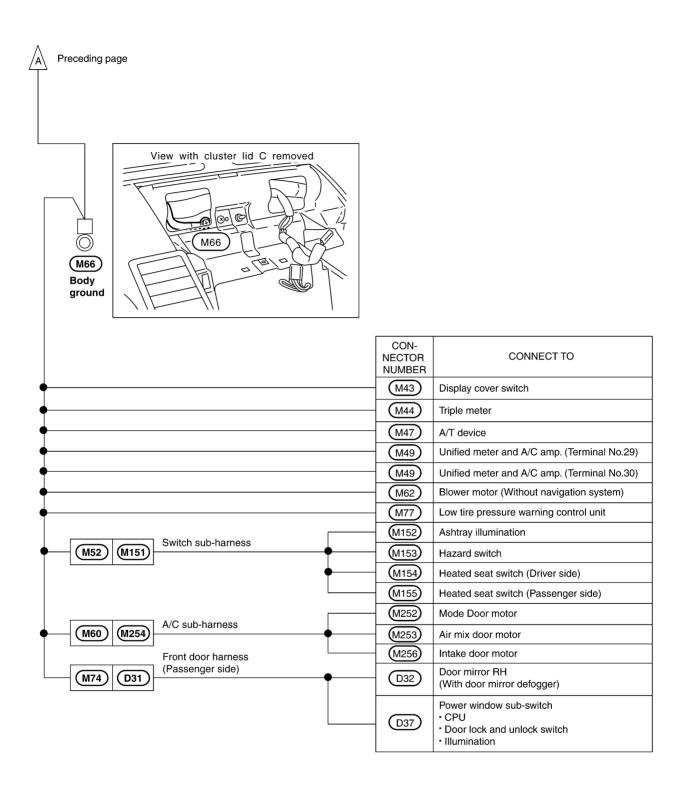
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CKIT0166E

Revision; 2004 April **PG-31** 2003 350Z

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CKIT0167E

ENGINE ROOM HARNESS Hood switch

CON-NECTOR

NUMBER

E9

E9

(E15)

(E24)

(E24)

E24

(E25)

(E25)

E38

E39

CONNECT TO

IPDM E/R (Intelligent power distribution module

IPDM E/R (Intelligent power distribution module

Daytime light control unit (Terminal No.16)
Front combination lamp RH (Terminal No.1)

Front combination lamp RH (Terminal No.4)

Front combination lamp RH (Terminal No.8)

Front combination lamp RH (Terminal No.3)

Front combination lamp RH (Terminal No.4)

engine room) (Terminal No.45)

engine room) (Terminal No.46)

Turn signal

Side marker

· Headlamp (High)

· Headlamp (Low)

Headlamp (High)Headlamp (Low)

Turn signal

Side marker

Cooling fan motor-1

Cooling fan motor-2

Parking

Parking

E17

E17 Body ground

E43 Body ground

(E108)

Next page

M15

C

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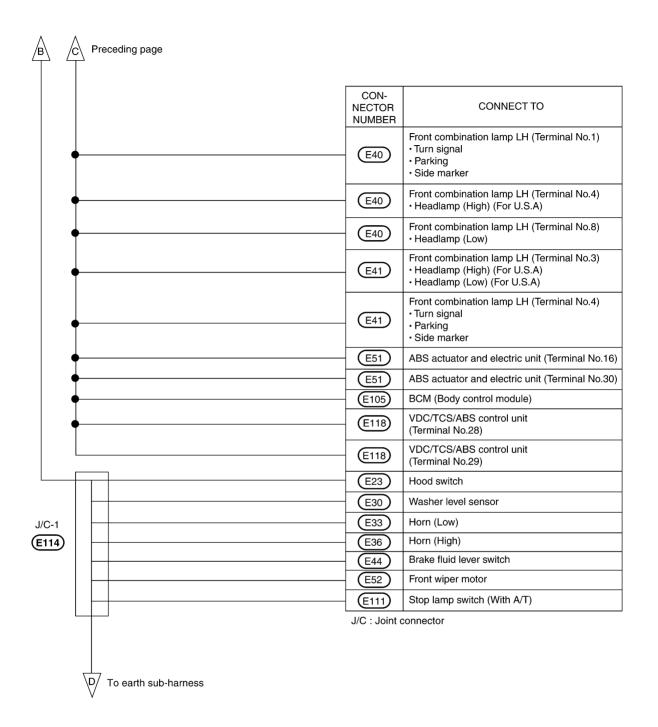
CON- NECTOR NUMBER	CONNECT TO
M22	Steering angle sensor
E6	IPDM E/R (Intelligent power distribution module engine room) (Terminal No.14)
E14	Daytime light control unit (Terminal No.14)

CKIT0168E

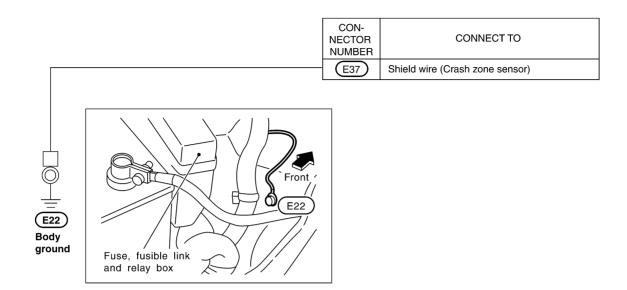
Front combination lamp LH

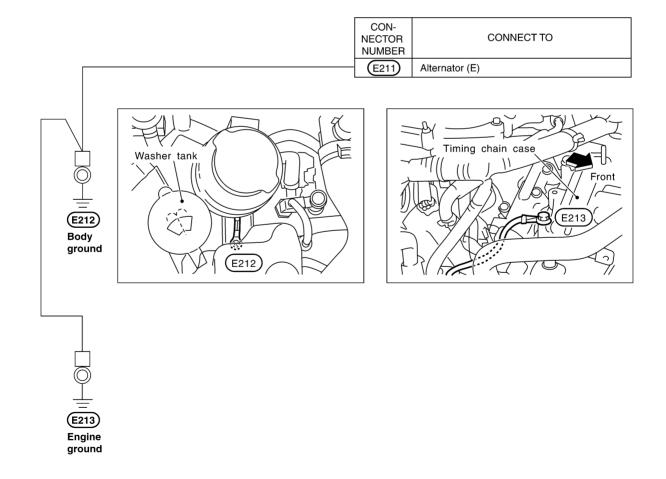
Main harness

E43



CKIT0169E





CKIT0170E

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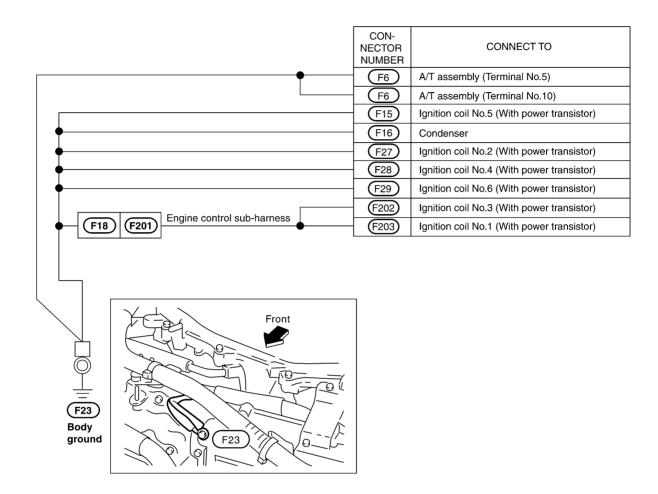
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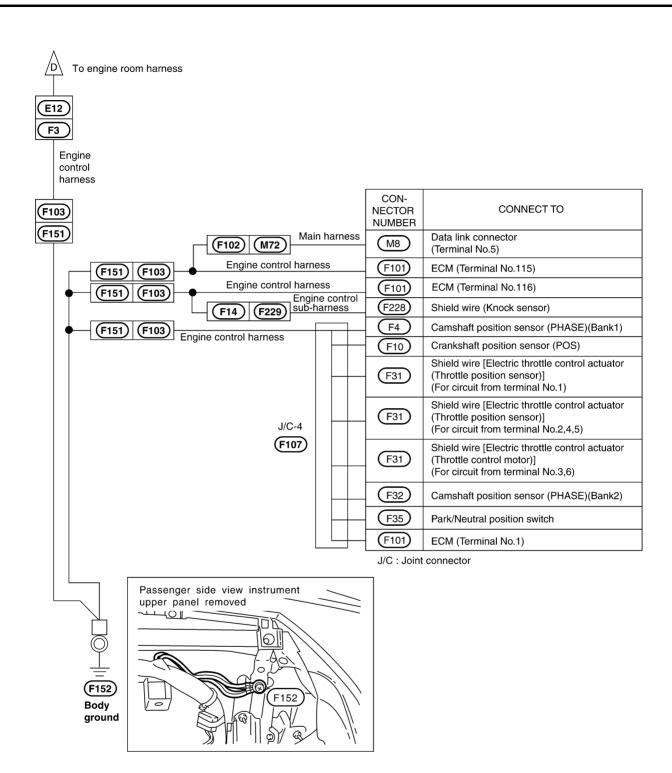
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ENGINE CONTROL HARNESS



CKIT0171E



CKIT0172E

Revision; 2004 April **PG-37** 2003 350Z

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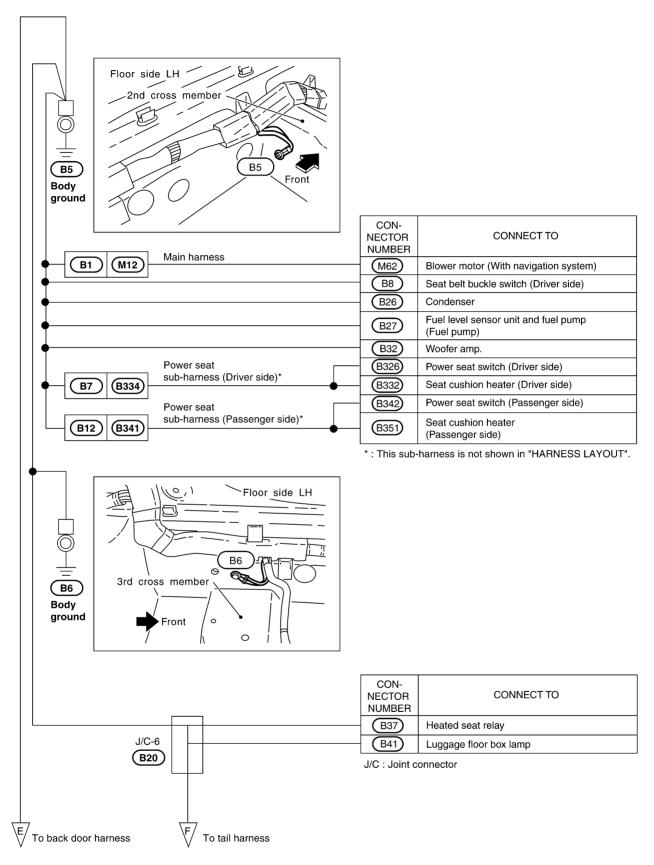
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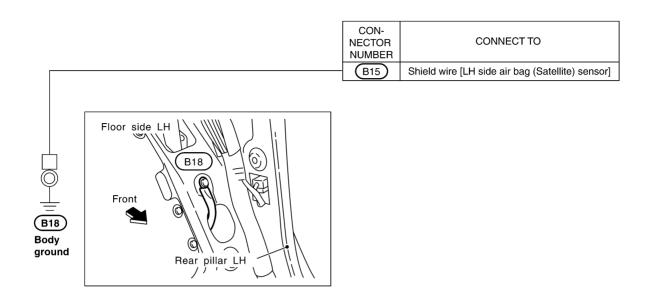
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BODY HARNESS



CKIT0173E



CONNECTOR
NUMBER

B21 Shield wire [RH side air bag (Satellite) sensor]

Floor side RH

Rear pillar RH

B24

Body
ground

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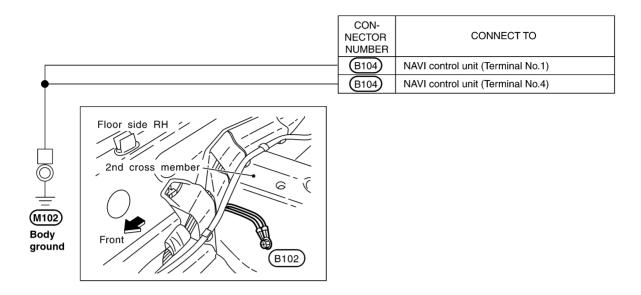
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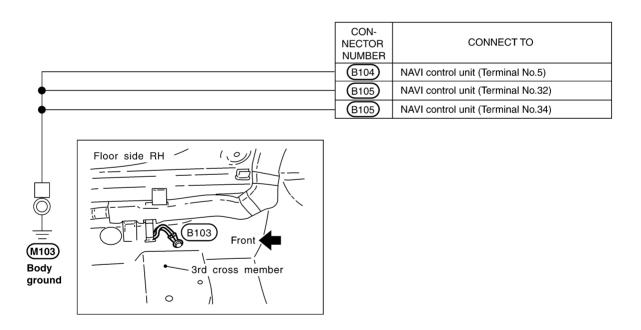
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CKIT0174E

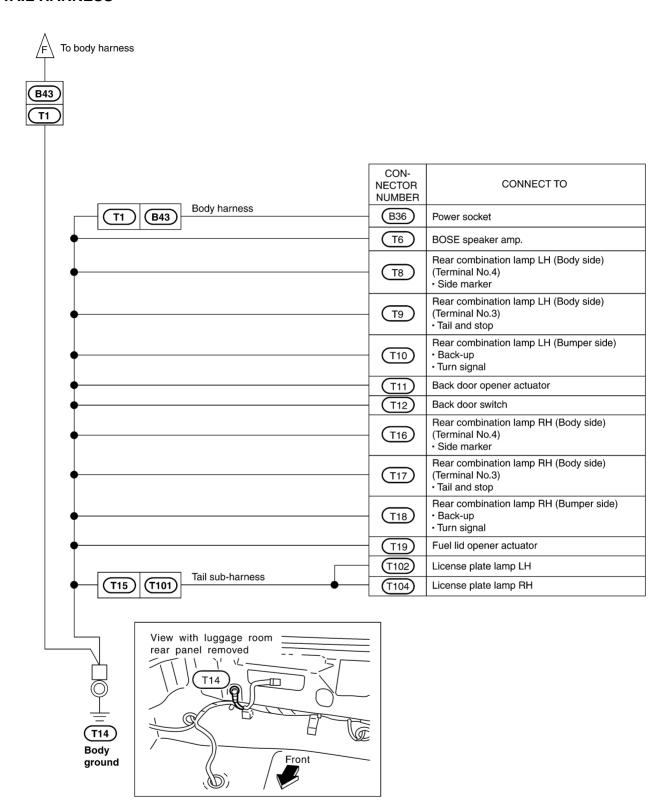
BODY NO.2 HARNESS





CKIT0175E

TAIL HARNESS



CKIT0176E

Revision; 2004 April **PG-41** 2003 350Z

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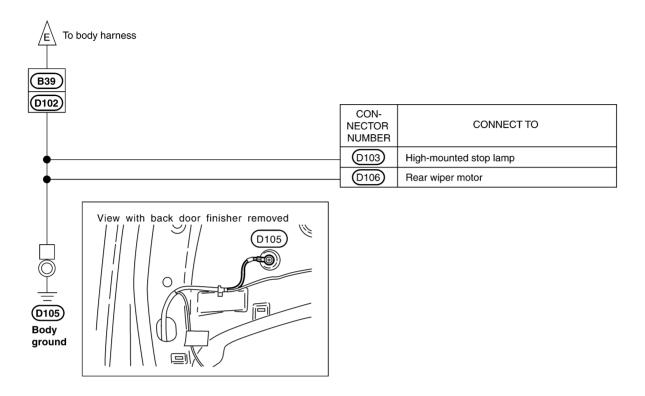
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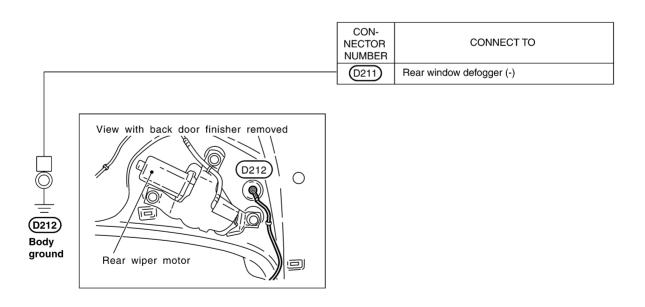
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BACK DOOR HARNESS





CKIT0177E

HARNESS PFP:00011

Harness Layout HOW TO READ HARNESS LAYOUT

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

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

To use the grid reference

- 1. Find the desired connector number on the connector list.
- 2. Find the grid reference.
- 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 in the below.

	Water proof type		Standard type	
Connector type	Male	Female	Male	Female
Cavity: Less than 4 Relay connector	Ø	6	Ø	
Cavity: From 5 to 8				
Cavity: More than 9				
Ground terminal etc.	_		8	

CKIT0108E

Example:

G2
E1
B/6: ASCD ACTUATOR

Connector color/Cavity

Connector number

Grid reference

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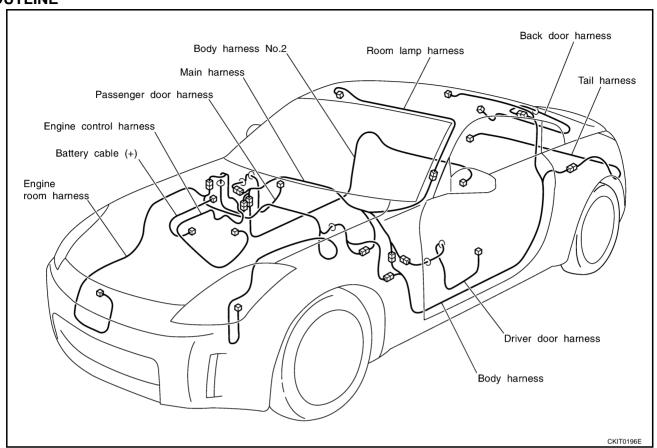
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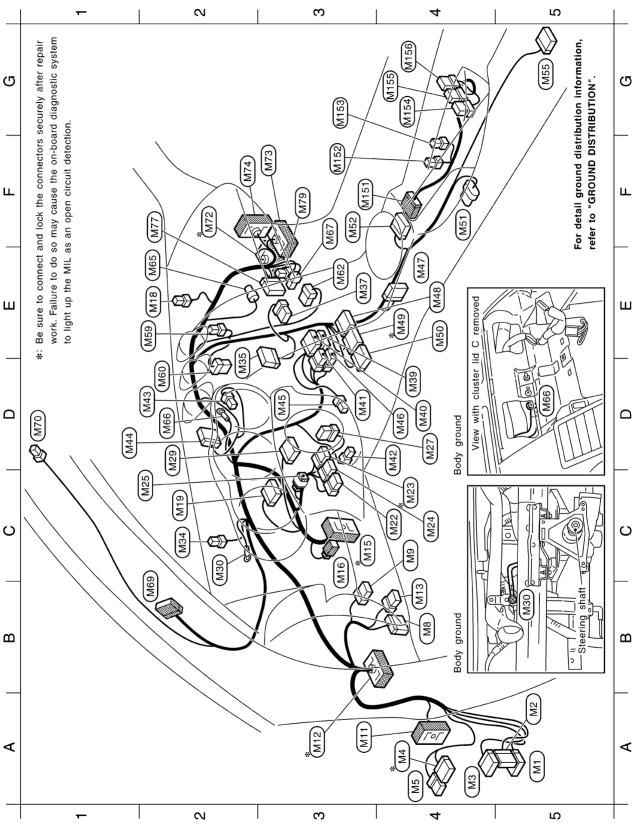
AKS0012Q

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OUTLINE



MAIN HARNESS



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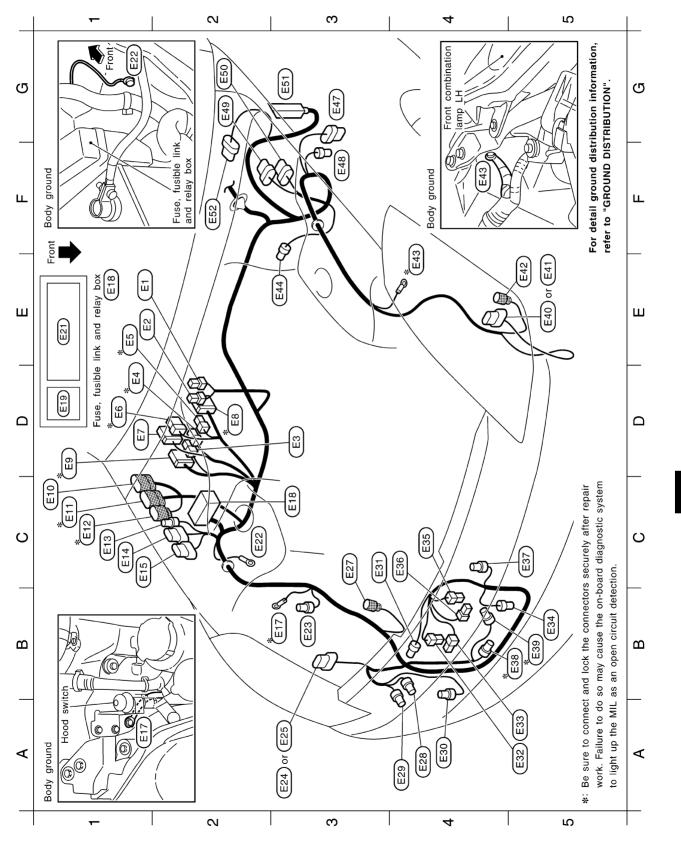
CKIT0197E

D2 (M66) — : Body ground F3 (M67) W/3 : Not used B2 (M69) W/10 : To (R1) D1 (M70) W/4 : To (R51) F2 *M72 SMJ : To (F102) F3 (M73) SMJ : To (B101) F2 (M77) W/24 : Low tire pressure warning control unit F3 (M79) W/2 : Tire pressure warning check connector	Switch sub-harness F3 (M15) W/12 : To (M52) F3 (M15) W/2 : Ashtray illumination G3 (M15) W/4 : Hazard switch G4 (M15) W/6 : Heated seat switch (Driver side) (With heated seat) G4 (M15) BR/6 : Heated seat switch (Passenger side) (With heated seat) G4 (M15) BR/6 : Heated seat switch (Passenger side) (With heated seat) G4 (M15) W/6 : Not used (M25) W/3 : Not used (M25) W/3 : Mode door motor (M25) W/4 : Intake sensor (M25) W/4 : Intake sensor (M25) W/3 : Intake door motor	*: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.
M16 W/16 W/16 W/16 W/16 W/16 W/16 W/16 W/	A3 *(M12) SMJ : To (B1) B4 (M13) GY/6 : Fuel lid opener switch C3 *(M15) SMJ : To (E108) C3 (M16) Y/4 : To (E108) C3 (M18) W/24 : Combination meter C4 (M22) W/8 : Steering angle sensor C2 (M22) W/8 : Steering angle sensor C4 (M22) W/8 : Combination switch (Spiral cable) C4 (M22) W/8 : Combination switch (Spiral cable) C4 (M22) W/8 : Combination switch C4 (M22) W/8 : Combination switch C5 (M26) BR/2 : Key switch D4 (M27) W/8 : NATS antenna amp. D2 (M39) W/16 : Combination switch C2 (M30) — Body ground C2 (M34) BR/2 : Security indicator lamp D2 (M35) GY/24 : Display unit (With navigation system) E3 (M37) W/8 : NAVI switch D4 (M39) W/16 : Audio unit D4 (M40) W/10 : Audio unit	(MA2) W/2 (MA4) W/2 (MA4) W/2 (MA4) W/1 (MA4) W/1 (MA4) W/10 (MA5) W/2 (MA5) W/4 (MA5)

Revision; 2004 April **PG-46** 2003 350Z

CKIT0198E

ENGINE ROOM HARNESS Engine Compartment



CKIT0199E

Revision; 2004 April **PG-47** 2003 350Z

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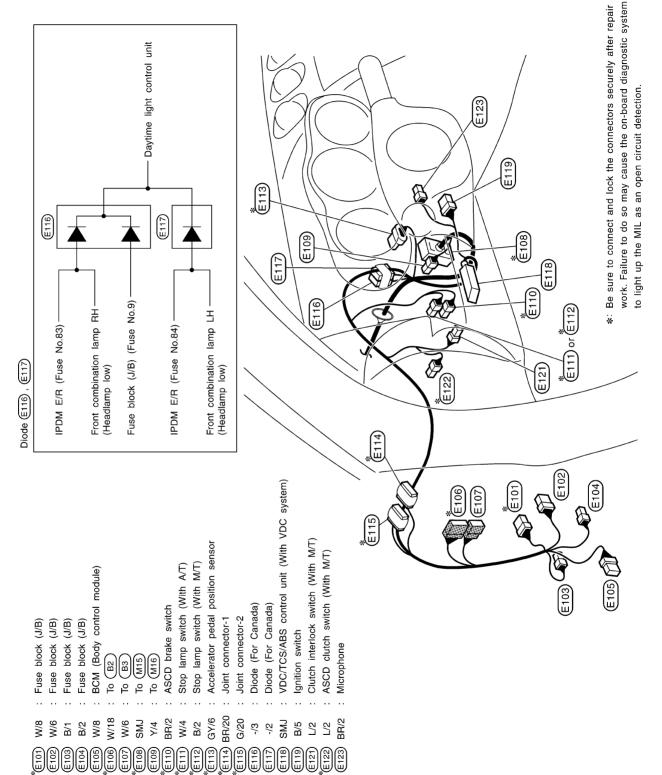
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A4 (E29) GY/2 : Front washer motor A4 (E30) BR/2 : Washer level sensor C3 (E31) B/3 : Refrigerant pressure sensor A5 (E32) B/1 : Horn (Low) A5 (E33) B/1 : Horn (Low) B5 (E34) B/2 : Ambient sensor C4 (E35) B/1 : Horn (High) C4 (E36) B/1 : Horn (High) C5 (E37) Y/2 : Crash zone sensor B5 **(E38) GY/4 : Cooling fan motor-1 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-2 (Via sub-harness) B5 **(E39) GY/4 : Cooling fan motor-3 (Viith VDC system) C5 (E42) SB/8 : Front wheel sensor LH C4 **(E43) — Body ground C5 (E43) GY/2 : Brake fluid level switch C6 (E49) SB/8 : VDC relay box (With VDC system) C7 (E30) GY/8 : VDC actuator (With VDC system) C8 (E30) GY/8 : VDC actuator (With VDC system) C9 (E30) GY/8 : VDC actuator (With VDC system) C9 (E30) GY/8 : Front wiper motor C9 (E50) GY/8 : Front wiper motor C9 (E52) GY/5 : Front wiper motor	work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.
E1 (E1) BR/2 : Fusible link holder B3 (E3) B/2 : Fusible link holder B3 (E3) B/2 : PDM E/R (Intelligent power distribution module engine room) B1 (E6) W/4 : IPDM E/R (Intelligent power distribution module engine room) B1 (E6) W/6 : IPDM E/R (Intelligent power distribution module engine room) D1 (E7) W/12 : IPDM E/R (Intelligent power distribution module engine room) D2 (E8) GY/16 : IPDM E/R (Intelligent power distribution module engine room) D1 (E7) W/12 : IPDM E/R (Intelligent power distribution module engine room) C1 (E10) GY/9 : To (E1) C1 (E10) GY/9 : To (E1) C1 (E12) B/8 : To (E3) C1 (E13) GY/4 : Daytime light control unit (For Canada) C1 (E14) GY/6 : Daytime light control unit (For Canada) C1 (E15) GY/8 : Daytime light control unit (For Canada) C3 (E18) — Fuse, using link and relay box D1 (E19) L/4 : Back-up lamp relay (With A/T) E1 (E21) — Fuse and fusible link block C2 (E22) — Body ground B3 (E22) — Body ground B3 (E22) GY/2 : Hood switch A3 (E24) SB/8 : Front combination lamp RH (With xenon headlamp) C3 (E27) GY/2 : Front wheel sensor RH	A4 (E28) G/2 : Rear washer motor

CKIT0200E

Passenger Compartment



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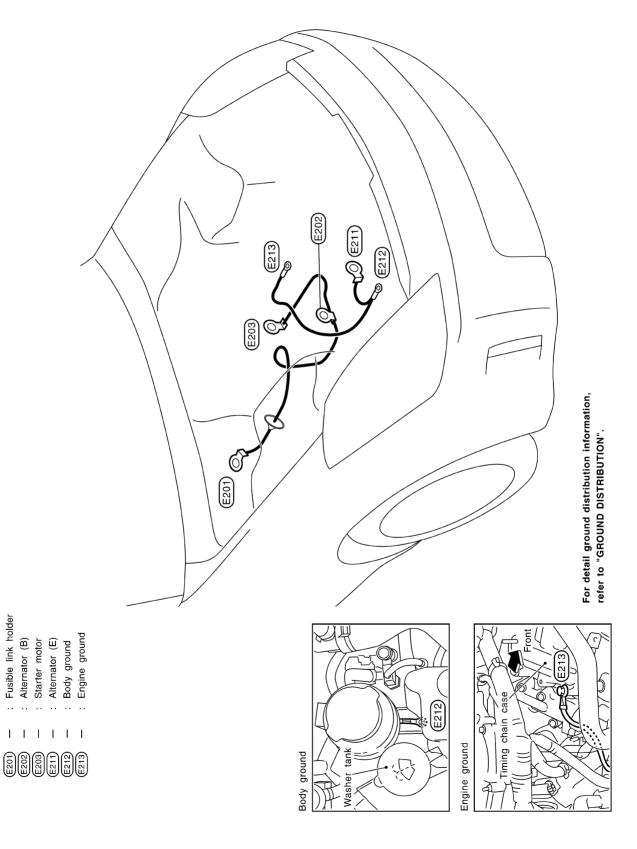
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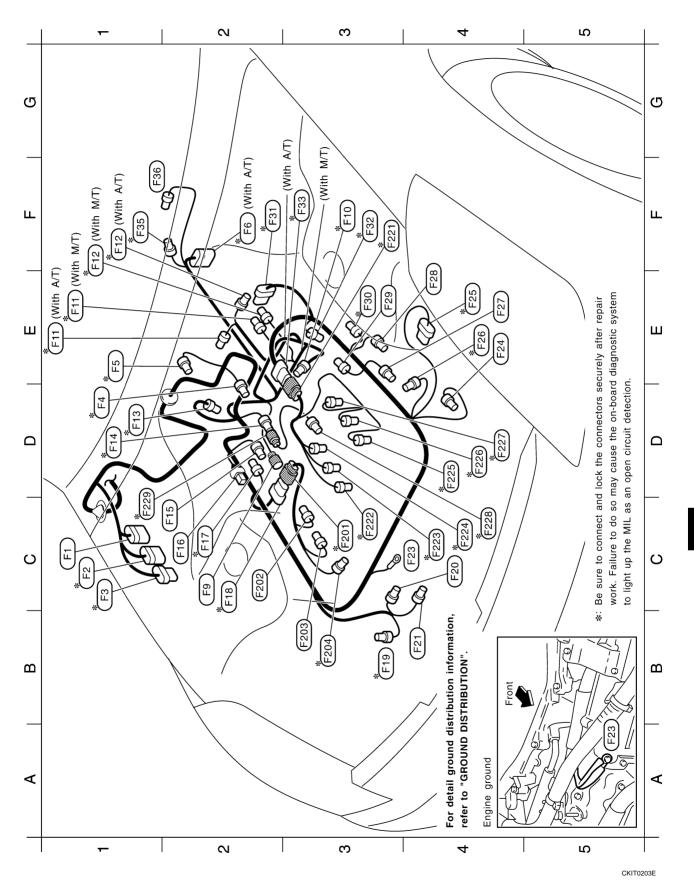
PG-49 Revision; 2004 April 2003 350Z

Battery Cable



CKIT0202E

ENGINE CONTROL HARNESS



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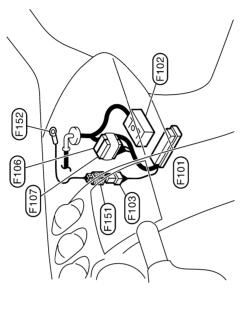
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Knock sensor Injector No.5 Injector No.2 Injector No.4 Injector No.6 To (F14) GY/2 GY/2 GY/2 GY/2 72 D4 F227 C4 F228 C1 F229 C4 F224 D4 F225 . 24

PASSENGER COMPARTMENT



: Joint connector-3 Engine control harness : To (M72) : To (F151) : ECM SMJ L/20 SMJ W/4 (F101) (F106)

Passenger side view instrument 0 upper panel removed Body ground

W/4 : To (F103) Earth sub-harness (F151) W/4 : To (F103) (F152) - : Body gr

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

work. Failure to do so may cause the on-board diagnostic system *: Be sure to connect and lock the connectors securely after repair to light up the MIL as an open circuit detection.

) [107]

: Joint connector-4

: Body ground

Engine control sub-harness-2

: Intake valve timing control solenoid valve (Bank1)

: Ignition coil No.3 (With power transistor)

Engine control sub-harness-1

: To (F18)

(F201)

်ဗ 8 B3

: Ignition coil No.1 (With power transistor)

GY/3 GY/3

G/2

*(F204)

: Injector No.1 : To (F33) GY/2 g/8 (F221)

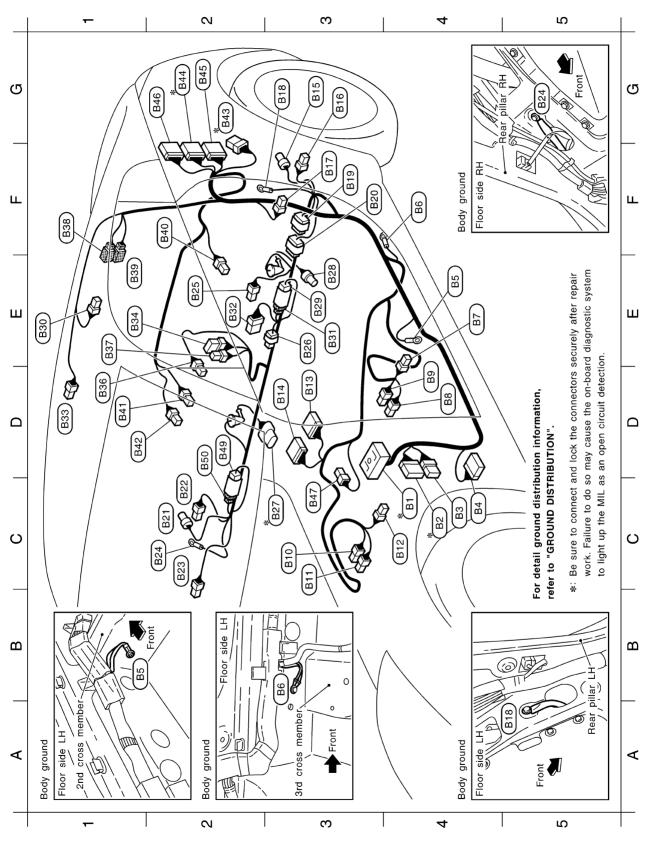
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: Injector No.3

GY/2

CKIT0204E

BODY HARNESS



CKIT0205E

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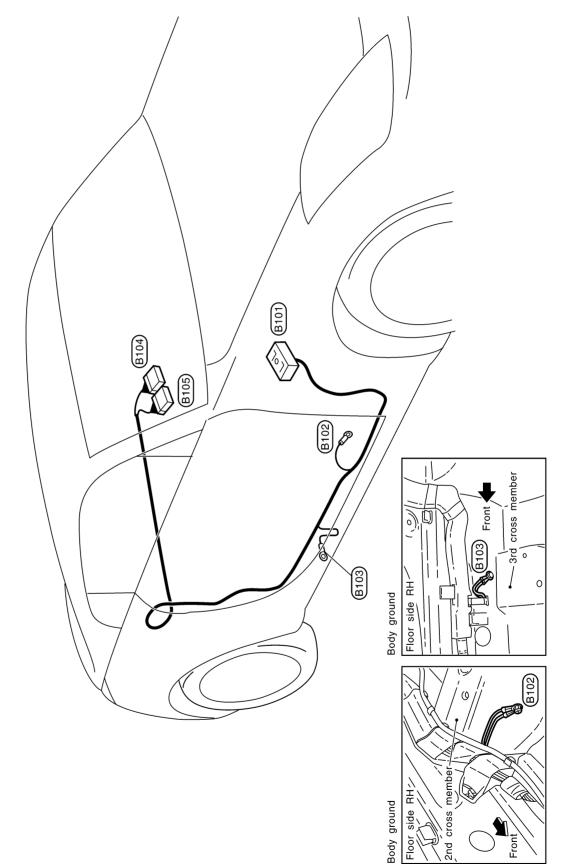
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E1 (B37) L/4 : Heated seat relay (With heated seat or side air bag) F1 (B38) W/3 : To (D101) E1 (B39) GY/2 : To (D102) F2 (B40) BR/2 : Rear speaker LH D1 (B41) W/2 : Luggage floor box lamp D1 (B42) BR/2 : Rear speaker RH G2 *(B43) W/6 : To (T1) G2 (B44) W/16 : To (T2) G2 (B45) W/10 : To (T3) (With BOSE system) G2 (B46) BR/20 : To (T4) (With BOSE system) C3 (B47) B/1 : Parking brake switch D2 (B49) BR/2 : To (B50) D2 (B50) BR/2 : To (B49)	*: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.
(B1) SMJ To (M12) (B2) W/18 To (E106) (B3) W/6 To (E107) (B4) W/12 BCM (Body control models) (B5) — Body ground (B6) — Body ground (B7) W/4 Driver side seat (With Sept.) (B8) W/3 Seat belt buckle switc (B9) Y/2 LH side air bag modu (B10) W/3 Seat belt buckle switc (B11) W/3 Seat belt buckle switc (B12) W/4 Passenger side seat (With Seat (B13)) (B13) Y/12 Air bag diagnosis sen	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) F3 (B19) OR/20 : Joint connector-5 F3 (B20) GY/6 : Joint connector-6 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 (Sub) E3 (B28) W/2 : LH side curtain air bag module (With side air bag) E4 (B30) Y/2 : LH side curtain air bag module (With side air bag) E4 (B32) BR/8 : Woofer amp. (With BOSE system) E4 (B33) Y/2 : RH side curtain air bag module (With side air bag) E4 (B33) BR/8 : Woofer amp. (With BOSE system) E5 (B32) BR/8 : Woofer amp. (With BOSE system) E6 (B33) BR/8 : Power socket

CKIT0206E

BODY NO.2 HARNESS



: Body ground
: NAVI control unit
: NAVI control unit : To (M73) : Body ground

(6101) SMJ (6102) – (6103) – (6104) W/24 (6105) GY/24

PG-55 Revision; 2004 April 2003 350Z В

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Front

CKIT0217E

TAIL HARNESS

work. Failure to do so may cause the on-board diagnostic system *: Be sure to connect and lock the connectors securely after repair Rear combination lamp RH (Bumper side) Rear combination lamp RH (Body side) EVAP control system pressure sensor to light up the MIL as an open circuit detection. EVAP canister vent control valve : Back door opener switch Fuel lid opener actuator : License plate lamp LH : License plate lamp RH : To (T15)

 Tail sub-harness

 (T101)
 GY/4
 : To (T101)

 (T102)
 BR/2
 : Licens

 (T103)
 GY/2
 : Back

 (T104)
 BR/2
 : Licens

 B/2 GY/3 W/4 BOSE speaker amp. (With BOSE system) Rear combination lamp LH (Bumper side) BOSE speaker amp. (With BOSE system) Rear combination lamp LH (Body side) Rear combination lamp LH (Body side) Rear combination lamp RH (Body side) (B45) (With BOSE system) To (B46) (With BOSE system) Back door opener actuator Luggage room lamp Rear wheel sensor Back door switch Body ground W/10 BR/20 GY/8 B/24 GY/2 GY/3 SB/4 W/4 W/3 GY/2 SB/4

T16 (T) T104 T14) (T21) (T19) * T20 (T13) (1103) (1103) (T101) T12) (T15) T2 (T102) E (9) (F) (6 E 4 *= _Z Front View with luggage room rear panel removed T14) Body ground

CKIT0207E

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

R51

E

ROOM LAMP HARNESS

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 Room lamp sub-harness

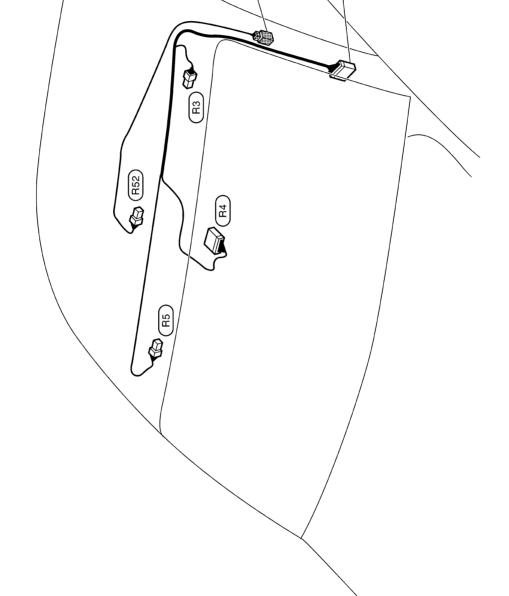
 (R51) W/4 : To (M70)

 (R62) W/3 : Spot lamp

: Vanity mirror lamp (Passenger side) : Auto anti-dazzling inside mirror

: Vanity mirror lamp (Driver side) (69M) oT :

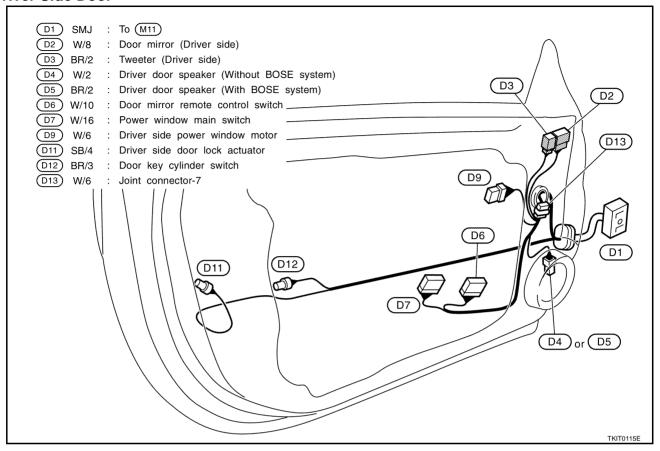
(R1) W/10 (R3) -/2 (R4) B/10 (R5) -/2



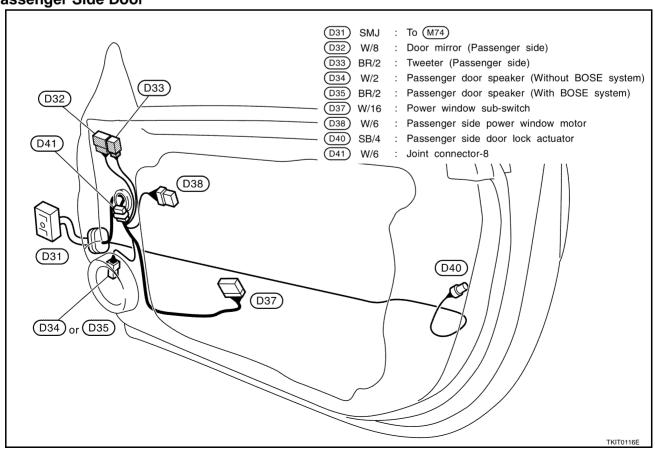
CKIT0208E

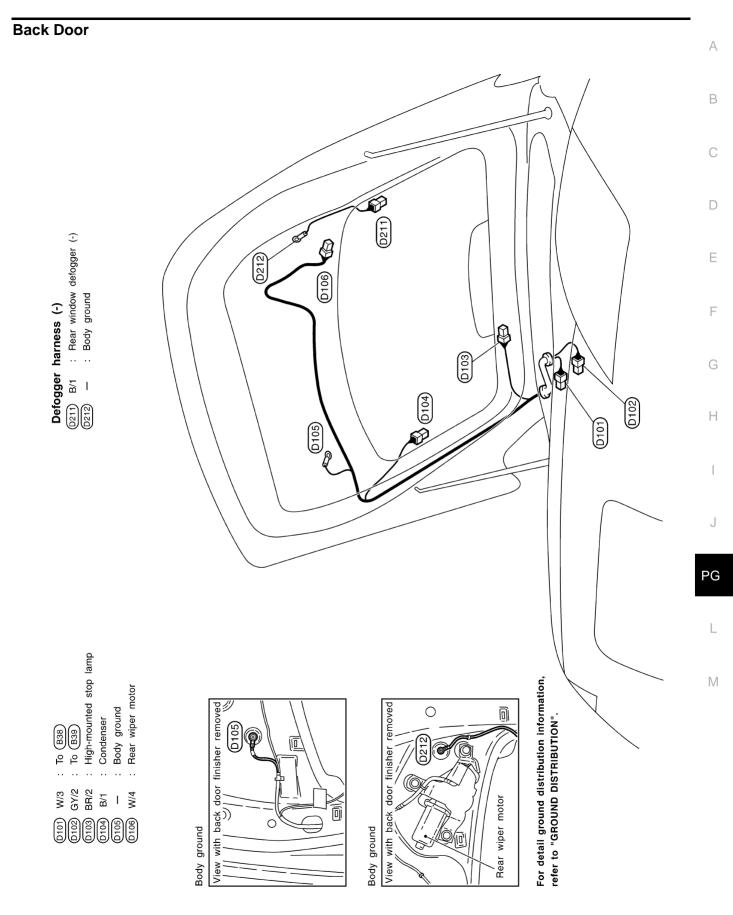
DOOR HARNESS

Driver Side Door



Passenger Side Door





CKIT0211E

Wiring Diagram Codes (Cell Codes)

AKS0012R

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		
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		
A/T	AT	A/T		
AT/IND	DI	A/T Indicator Lamp		
AUDIO	AV	Audio		
BACK/L	LT	Back-Up Lamp		
BRK/SW	EC	Brake Switch		
CAN	EC	CAN Communication Line		
CAN	LAN	CAN System		
CHARGE	SC	Charging System		
CHIME	DI	Warning Chime		
CLOCK	DI	Clock		
COMBSW	LT	Combination Switch		
COOL/F	EC	Cooling Fan Control		
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		
ETC1	EC	Electrical Throttle Function		
ETC2	EC	Electrical Throttle Control Motor Relay		
ETC3	EC	Electrical Throttle Control Motor		
F/LID	BL	Fuel Lid Opener		
F/PUMP	EC	Fuel Pump		
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		
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)		
IATS	EC	Intake Air Temperature Sensor		
IGNSYS	EC	Ignition System		

Code	Section	Wiring Diagram Name	
ILL	LT	Illumination	
INJECT	EC	Injector	
INT/L	LT	Trunk Room Lamp	
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	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 Connectors	
MIRROR	GW	Power Door Mirror	
NATS	BL	Nissan Anti - Theft System	
NAVI	AV	Navigation System	
O2H1B1	EC	Heated Oxygen Sensor 1 Heater Bank 1	
O2H1B2	EC	Heated Oxygen Sensor 1 Heater Bank 2	
D2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1	
D2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2	
D2S1B1	EC	Heated Oxygen Sensor 1 Bank 1	
O2S1B2	EC	Heated Oxygen Sensor 1 Bank 2	
D2S2B1	EC	Rear Heated Oxygen Sensor 2 Bank 1	
O2S2B2	EC	Rear Heated Oxygen Sensor 2 Bank 2	
PGC/V	EC	Evap Canister Purge Volume Control Solenoid Valve	
PHSB1	EC	Camshaft Position Sensor (Phase) (Bank1)	
PHSB2	EC	Camshaft Position Sensor (Phase) (Bank2)	
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	
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	
TAIL/L	LT	Parking, License and Tail Lamps	
TCS	BRC	Traction Control System	
TPS1	EC	Throttle Position Sensor (Sensor 1)	
TPS2	EC	Throttle Position Sensor (Sensor 2)	

Code	Section	Wiring Diagram Name
TPS3	EC	Throttle Position Sensor
TRANSCV	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
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer
WIP/R	WW	Rear Wiper and Washer

ELECTRICAL UNITS LOCATION

PFP:25230

AKS0012S

В

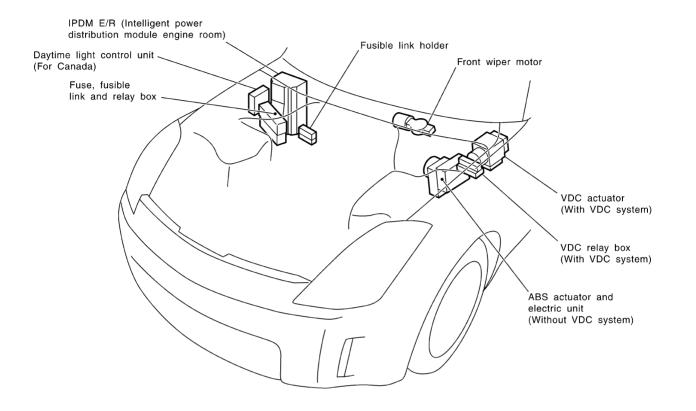
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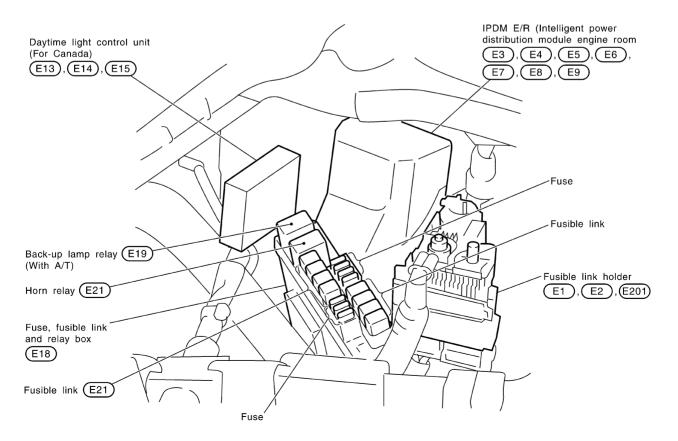
F

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Н

Electrical Units Location ENGINE COMPARTMENT





CKIT0212E

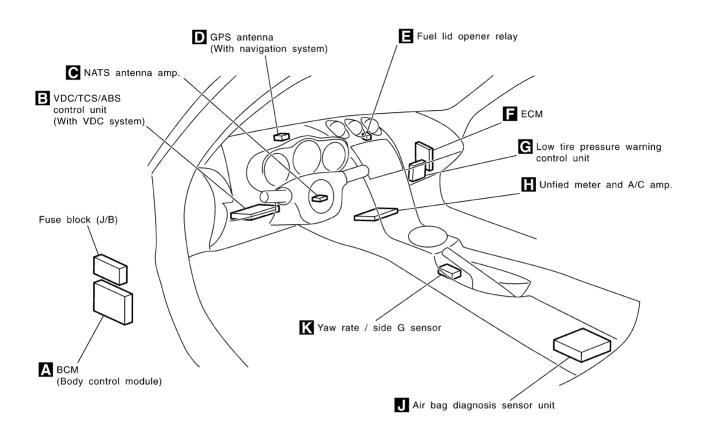
Revision; 2004 April **PG-63** 2003 350Z

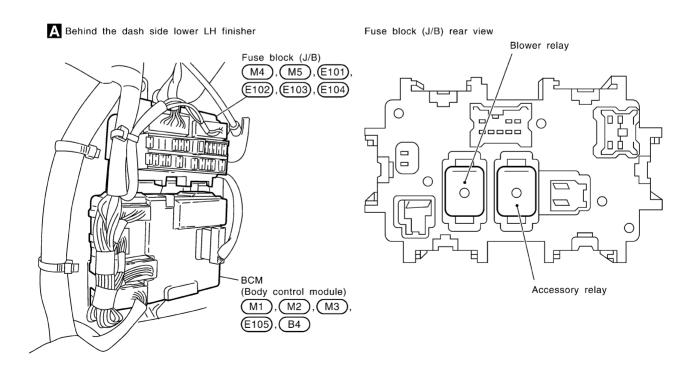
PG

J

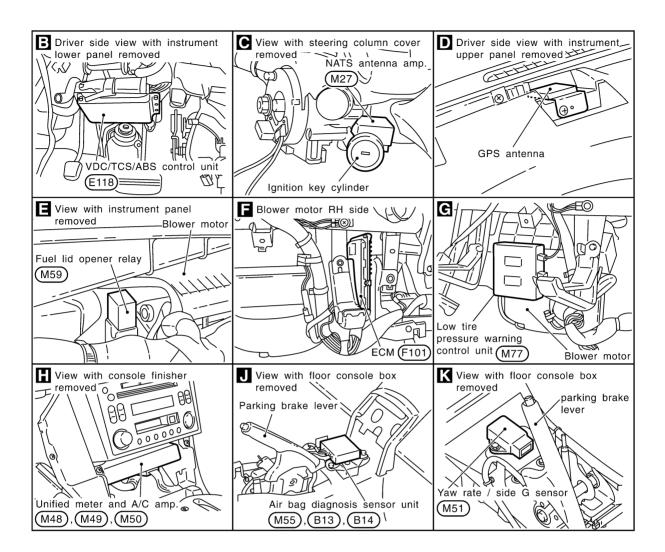
L

PASSENGER COMPARTMENT





CKIT0213E



PG

J

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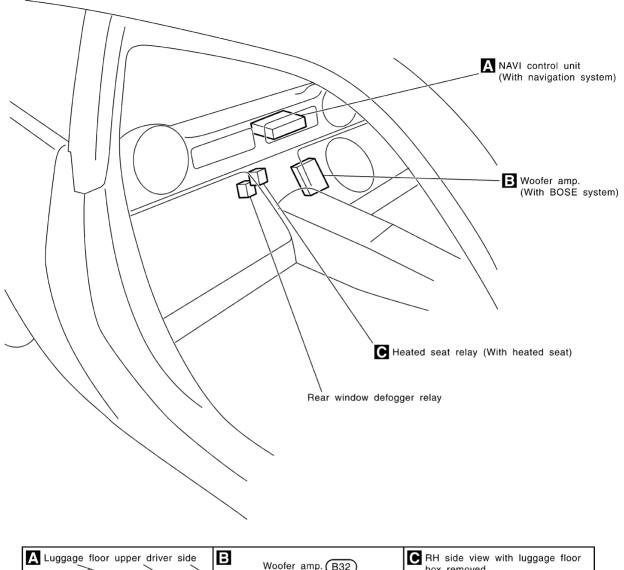
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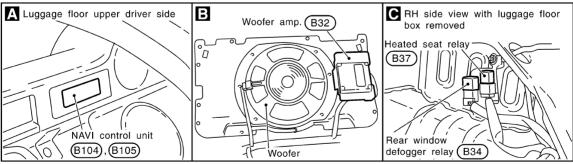
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M

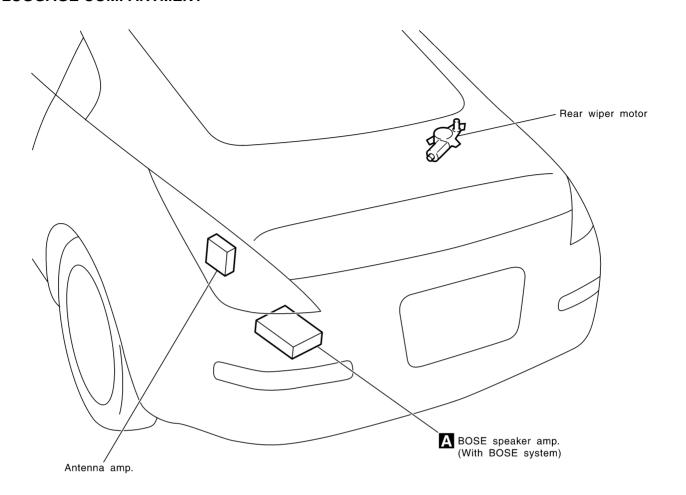
CKIT0214E





CKIT0215E

LUGGAGE COMPARTMENT



A LH side view with luggage side lower finisher removed Antenna amp BOSE speaker amp. (With BOSE system) T6, T7

CKIT0216E

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HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:00011

DescriptionHARNESS CONNECTOR (TAB-LOCKING TYPE)

AKS0012T

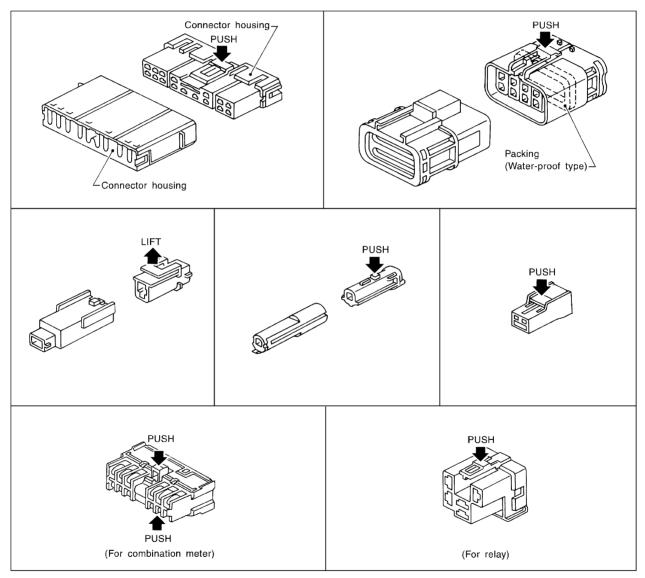
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



SEL769DA

HARNESS CONNECTOR

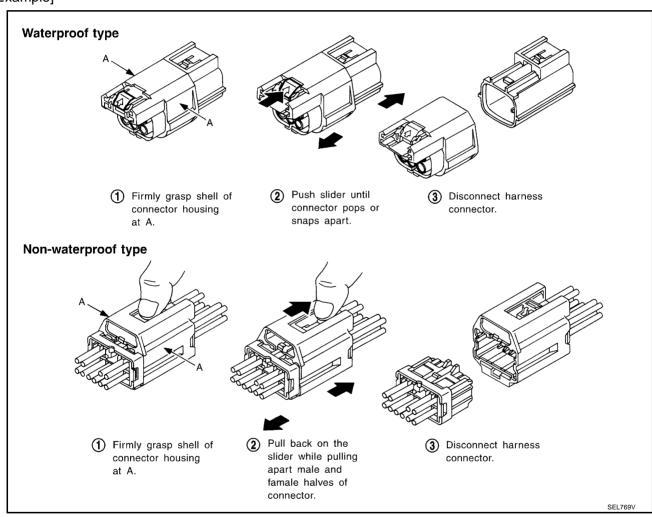
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



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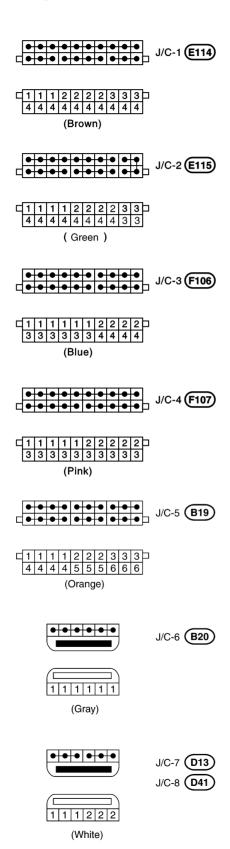
JOINT CONNECTOR (J/C)

JOINT CONNECTOR (J/C)

PFP:B4341

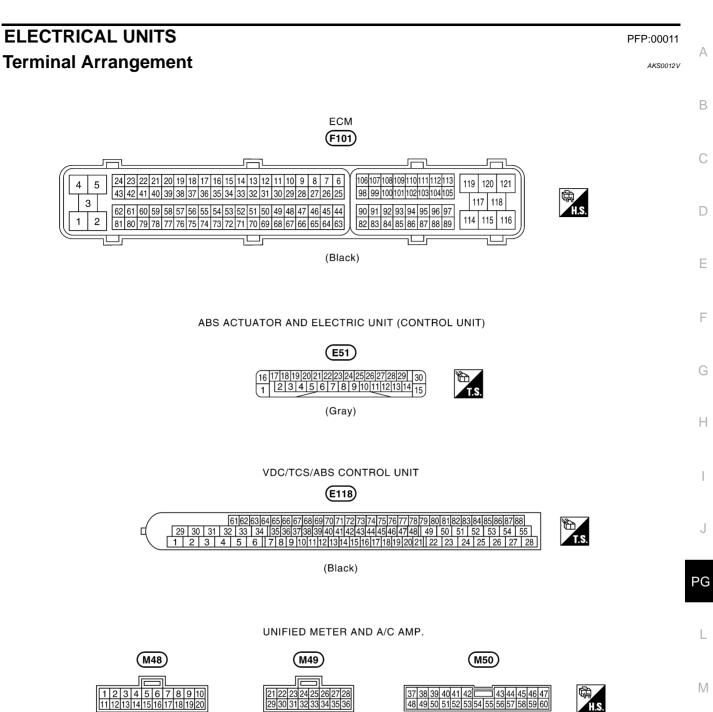
Terminal Arrangement

AKS0012U



CKIT0182E

ELECTRICAL UNITS



(White)

CKIT0183E

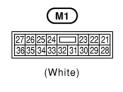
PG-71 2003 350Z Revision; 2004 April

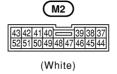
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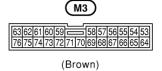
(Gray)

ELECTRICAL UNITS

BCM (BODY CONTROL MODULE)















CKIT0156E

SMJ (SUPER MULTIPLE JUNCTION)

SMJ (SUPER MULTIPLE JUNCTION) Terminal Arrangement

PFP:B4341

AKS0012W

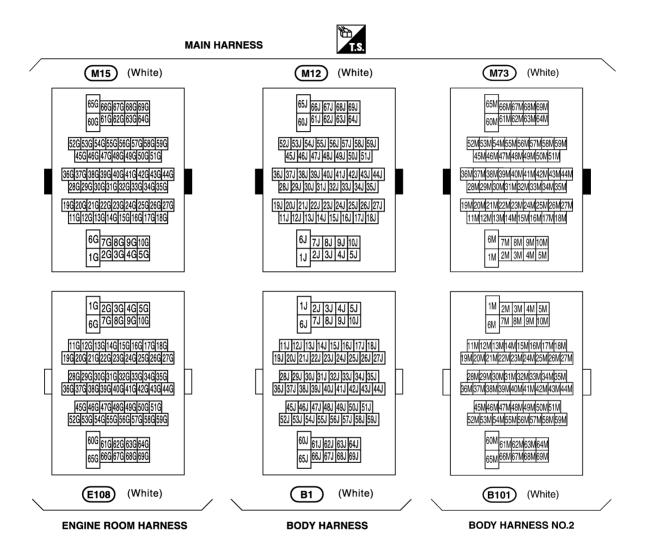
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M

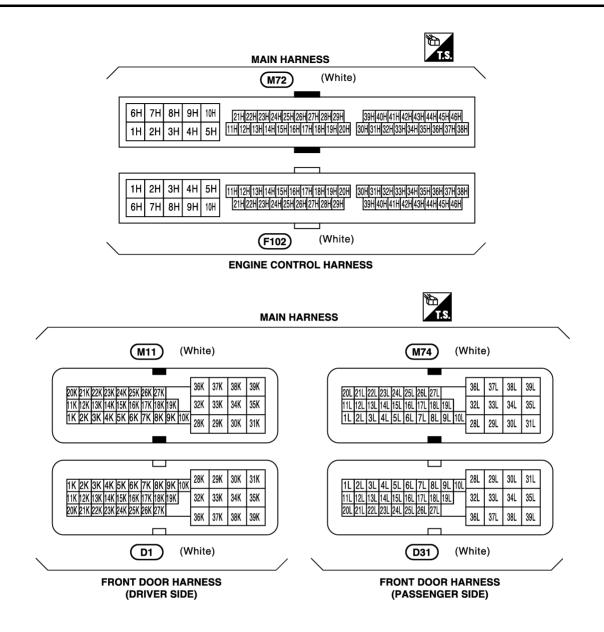
CKIT0184E

PG

J

L

SMJ (SUPER MULTIPLE JUNCTION)



CKIT0158E

STANDARDIZED RELAY

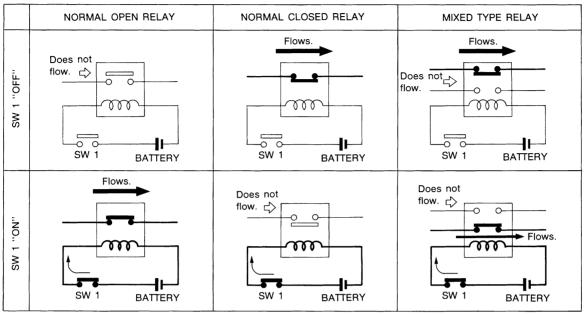
STANDARDIZED RELAY

PFP:00011

Description

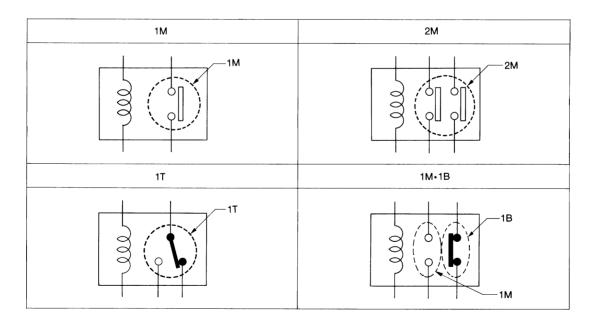
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



TYPE OF STANDARDIZED RELAYS

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



SEL882H

Α AKS0012X

С

В

D

F

G

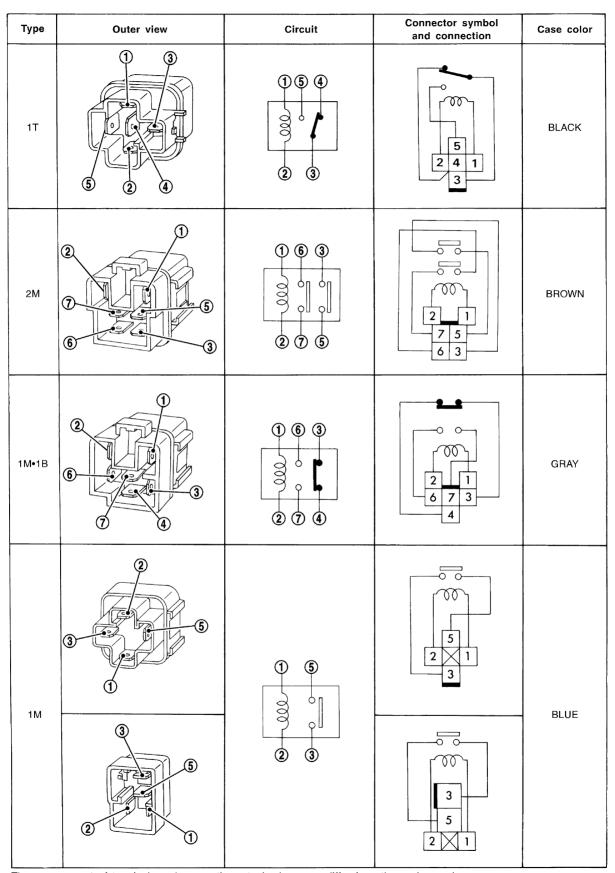
Н

SEL881H

PG

J

STANDARDIZED RELAY



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

SEL188W

FUSE BLOCK - JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

AKS0012Y

Α

В

С

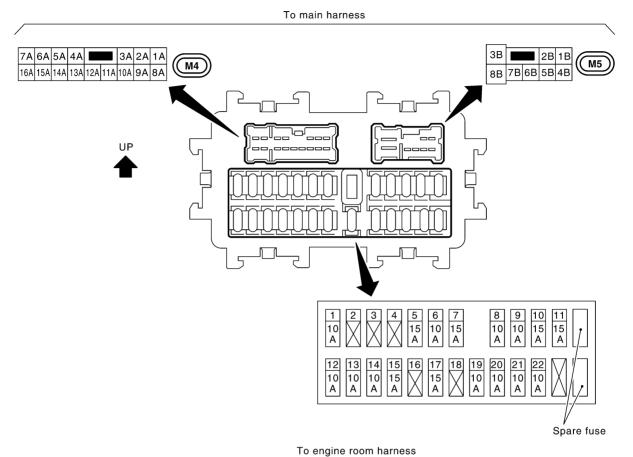
D

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F

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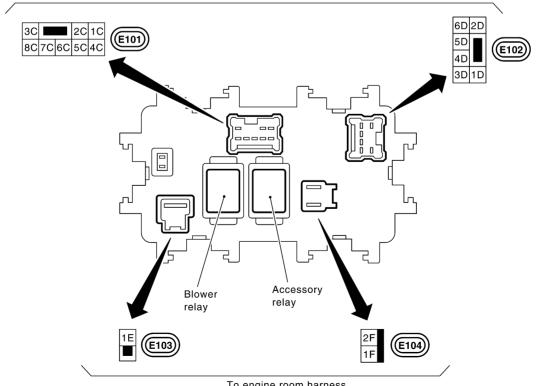
Н



PG

J

M



To engine room harness

CKIT0185E

FUSE, FUSIBLE LINK AND RELAY BOX

FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

Terminal Arrangement

AKS0012Z

