SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

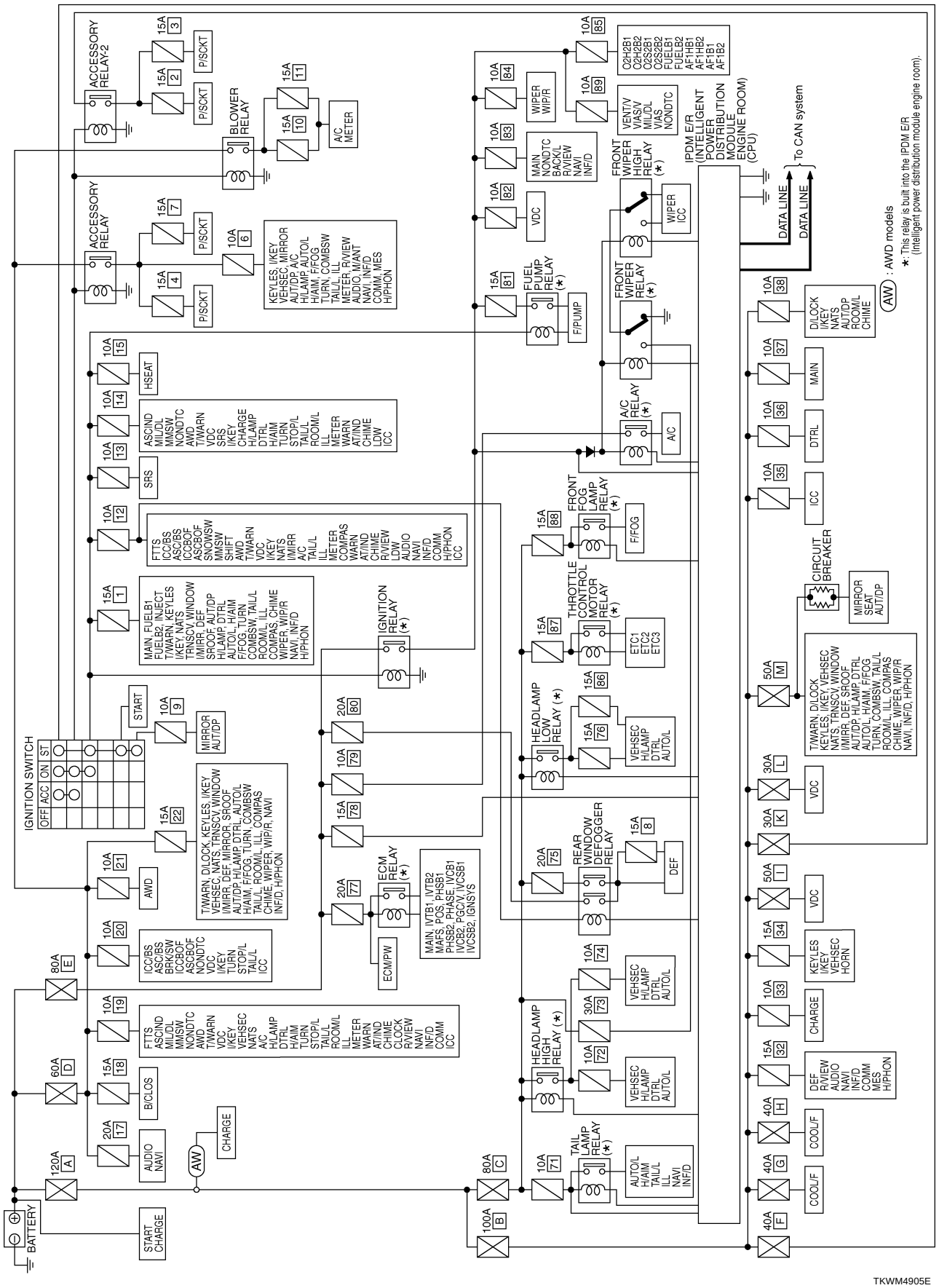
CONTENTS

POWER SUPPLY ROUTING CIRCUIT

PFP:24110

Schematic

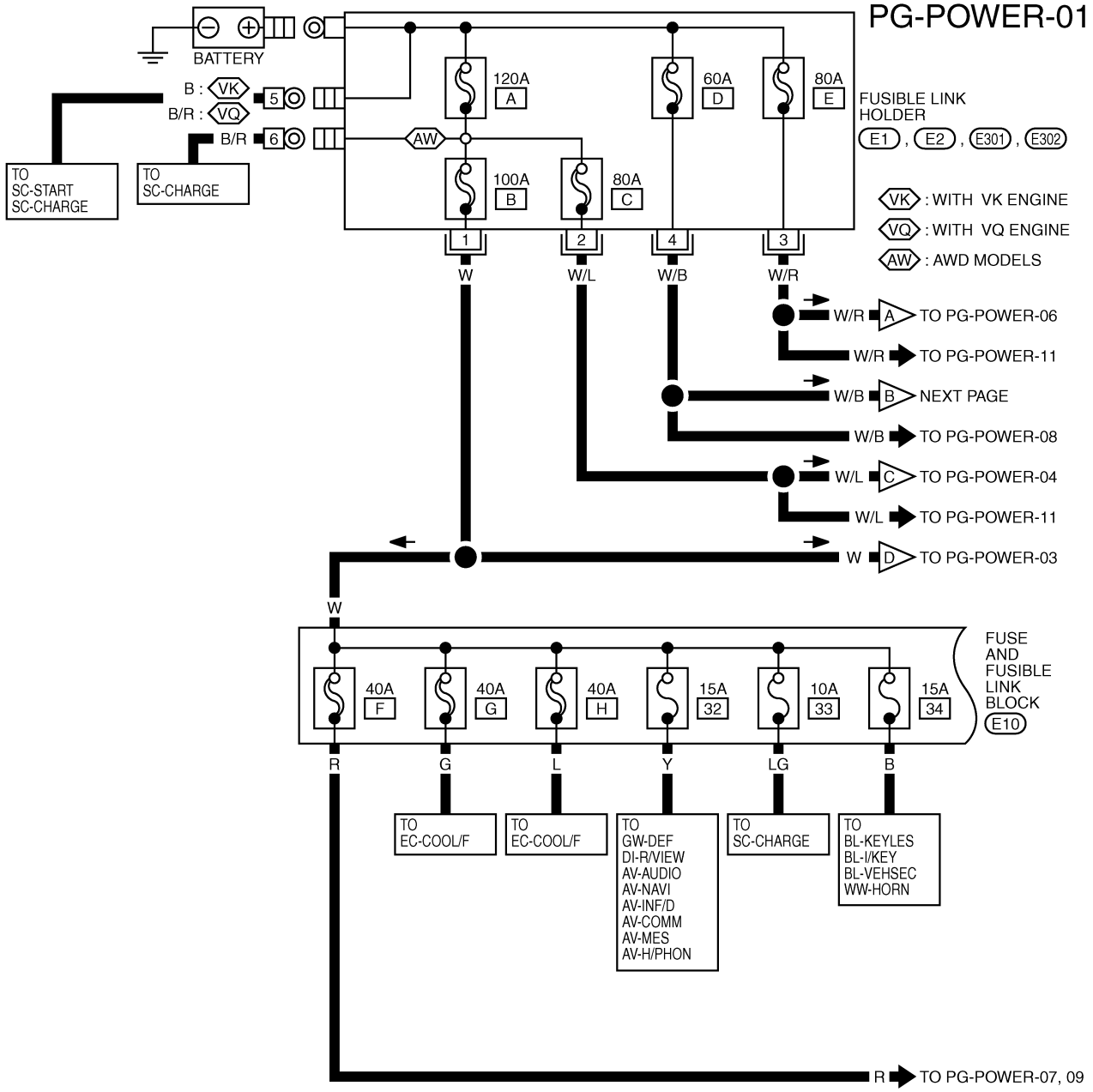
NKS003G6

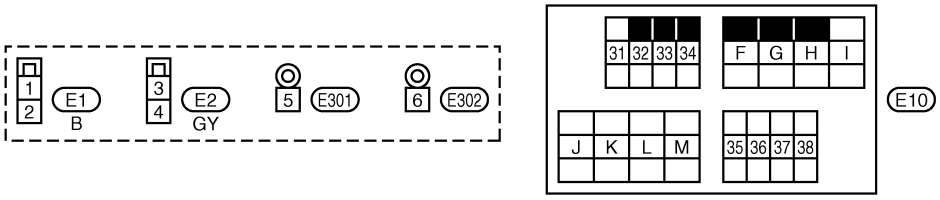


Wiring Diagram — POWER —

NKS003G7

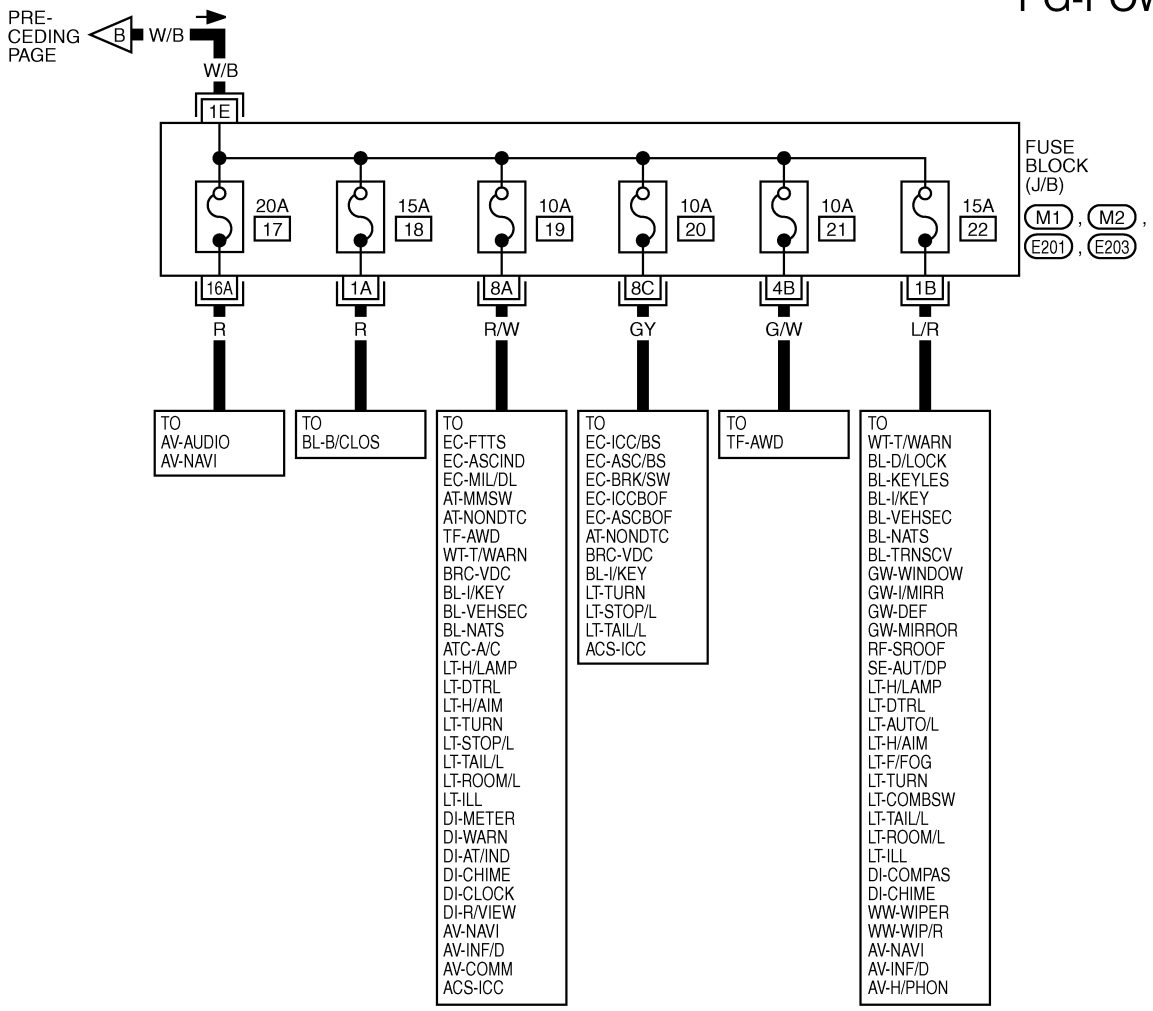
BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION





TKWM4458E

PG-POWER-02



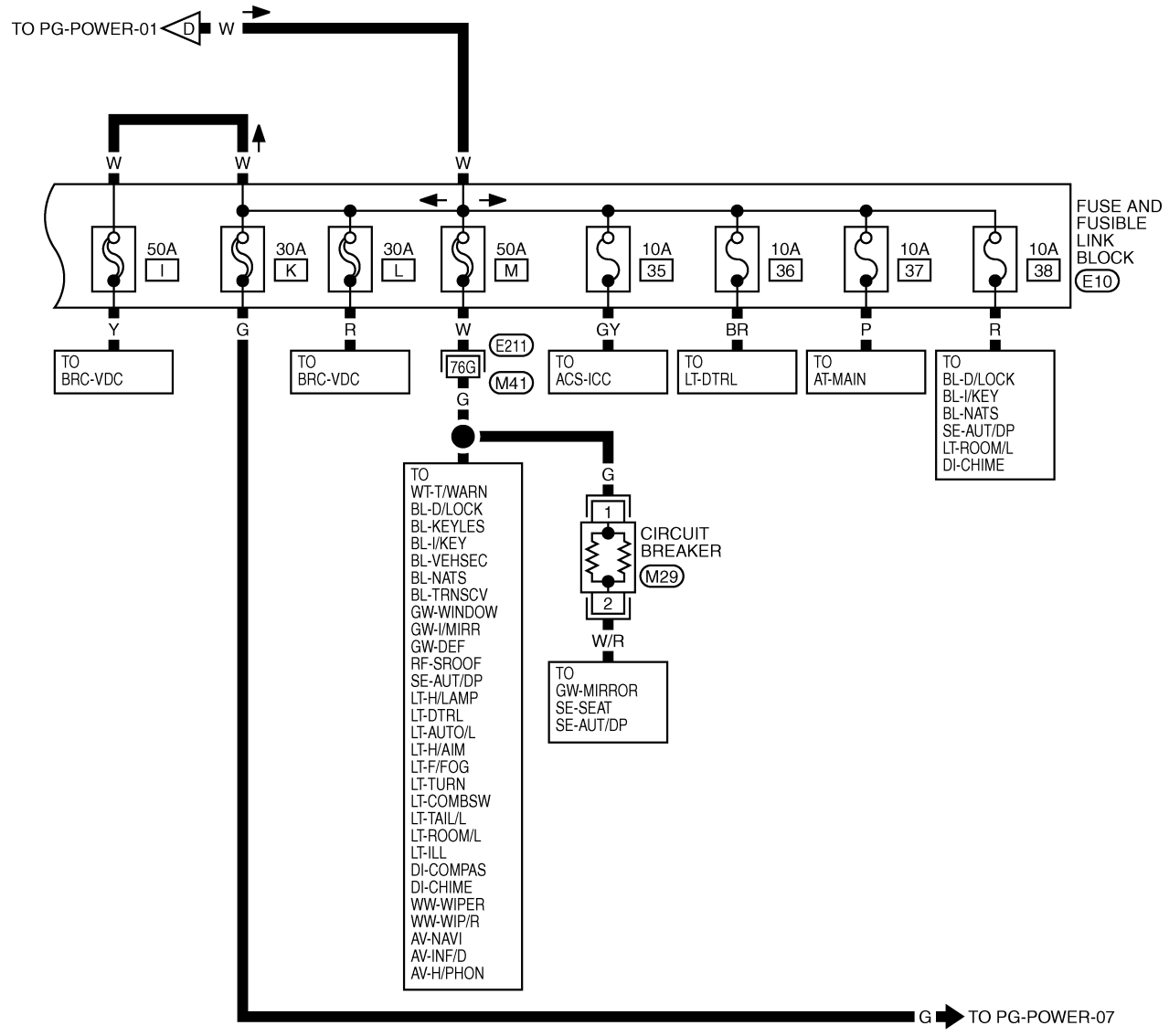
REFER TO THE FOLLOWING.

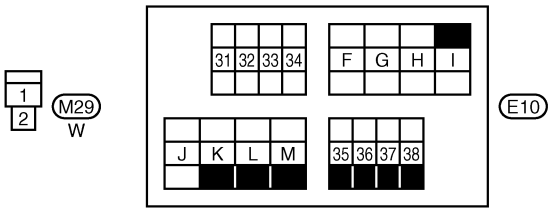
M1, M2, E201, E203
-FUSE BLOCK-JUNCTION BOX (J/B)

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

TKWM4459E

PG-POWER-03

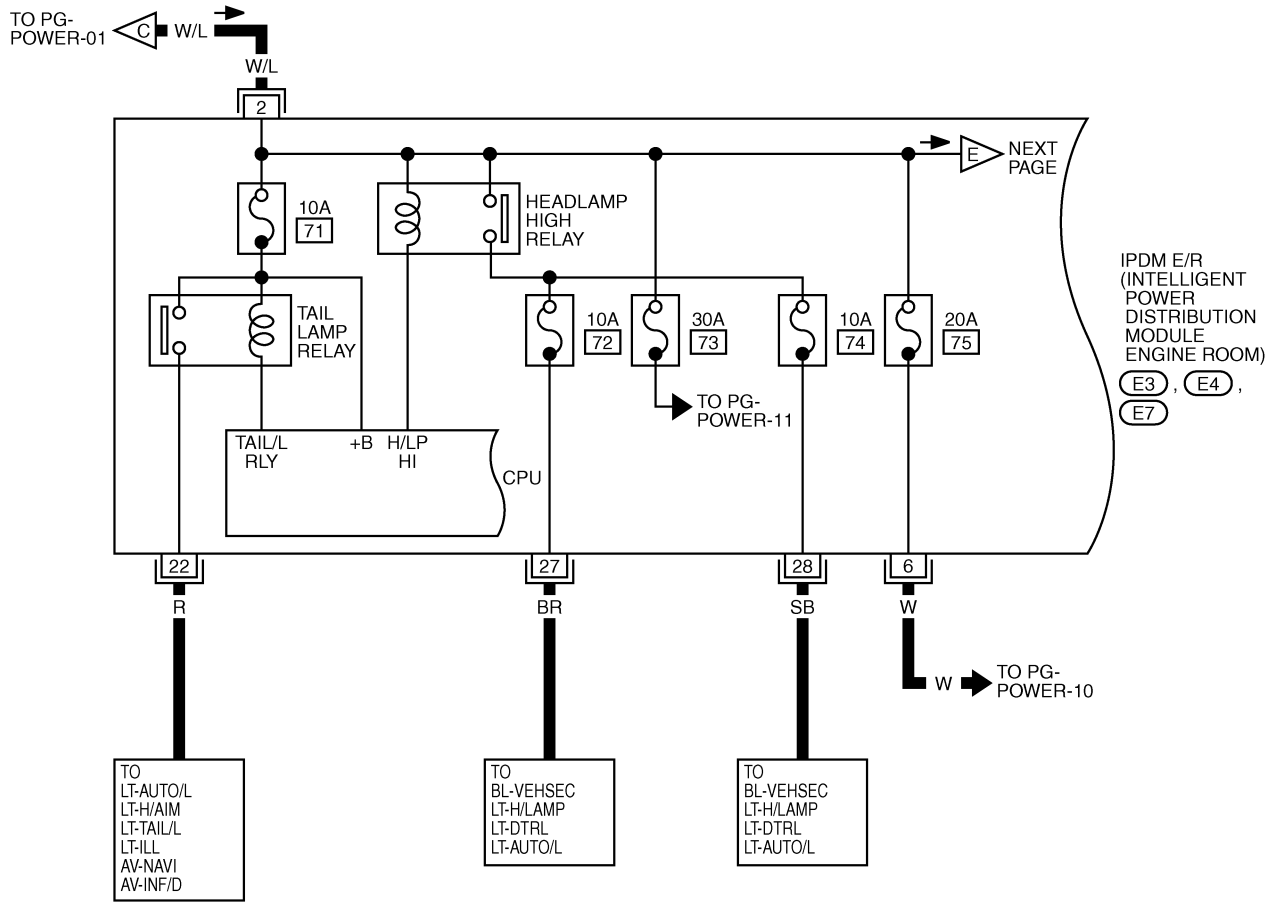


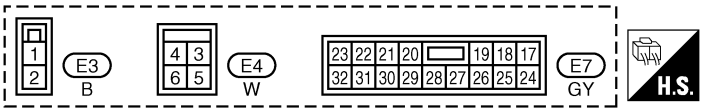


REFER TO THE FOLLOWING.
E211 -SUPER MULTIPLE JUNCTION (SMJ)

TKWM4460E

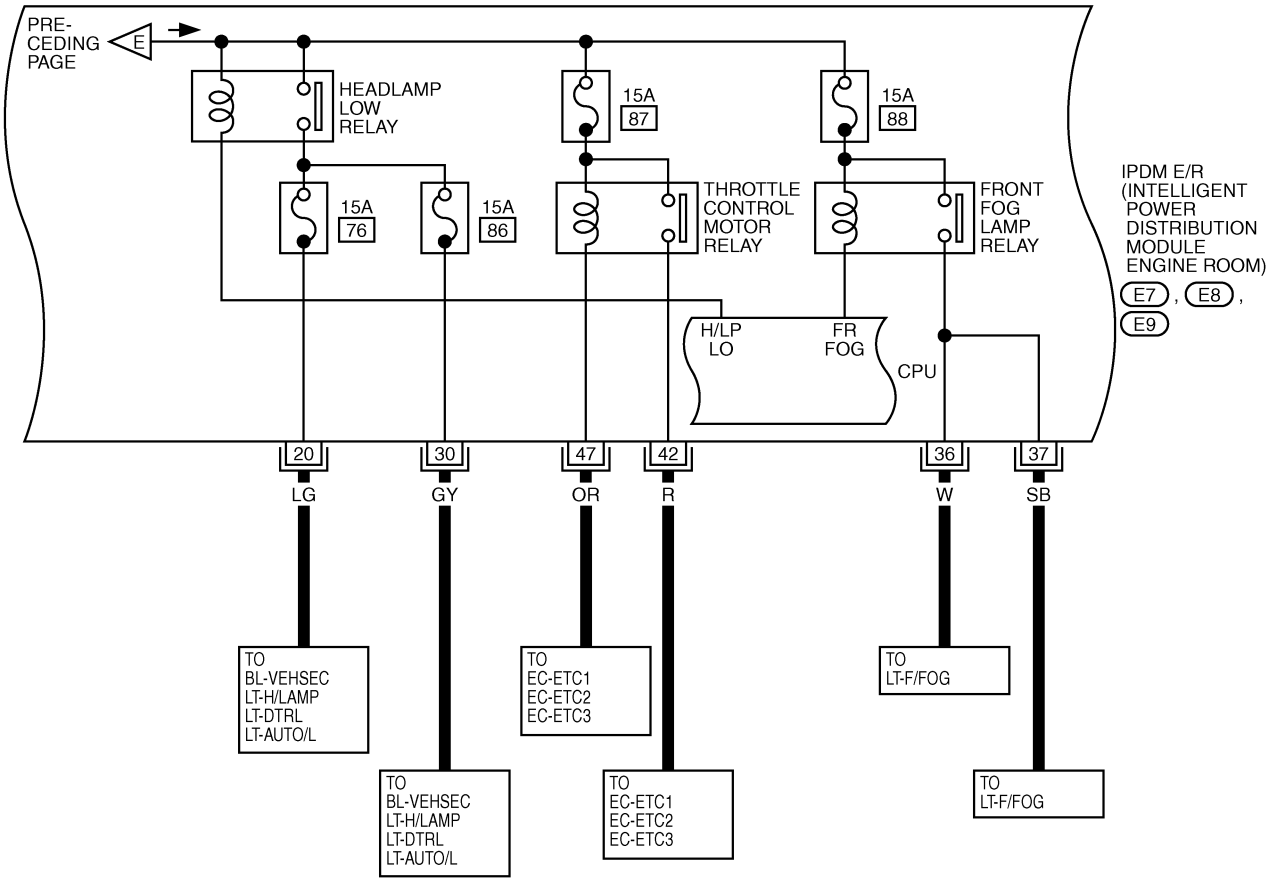
PG-POWER-04

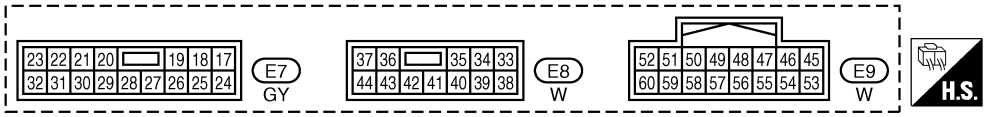




TKWM4461E

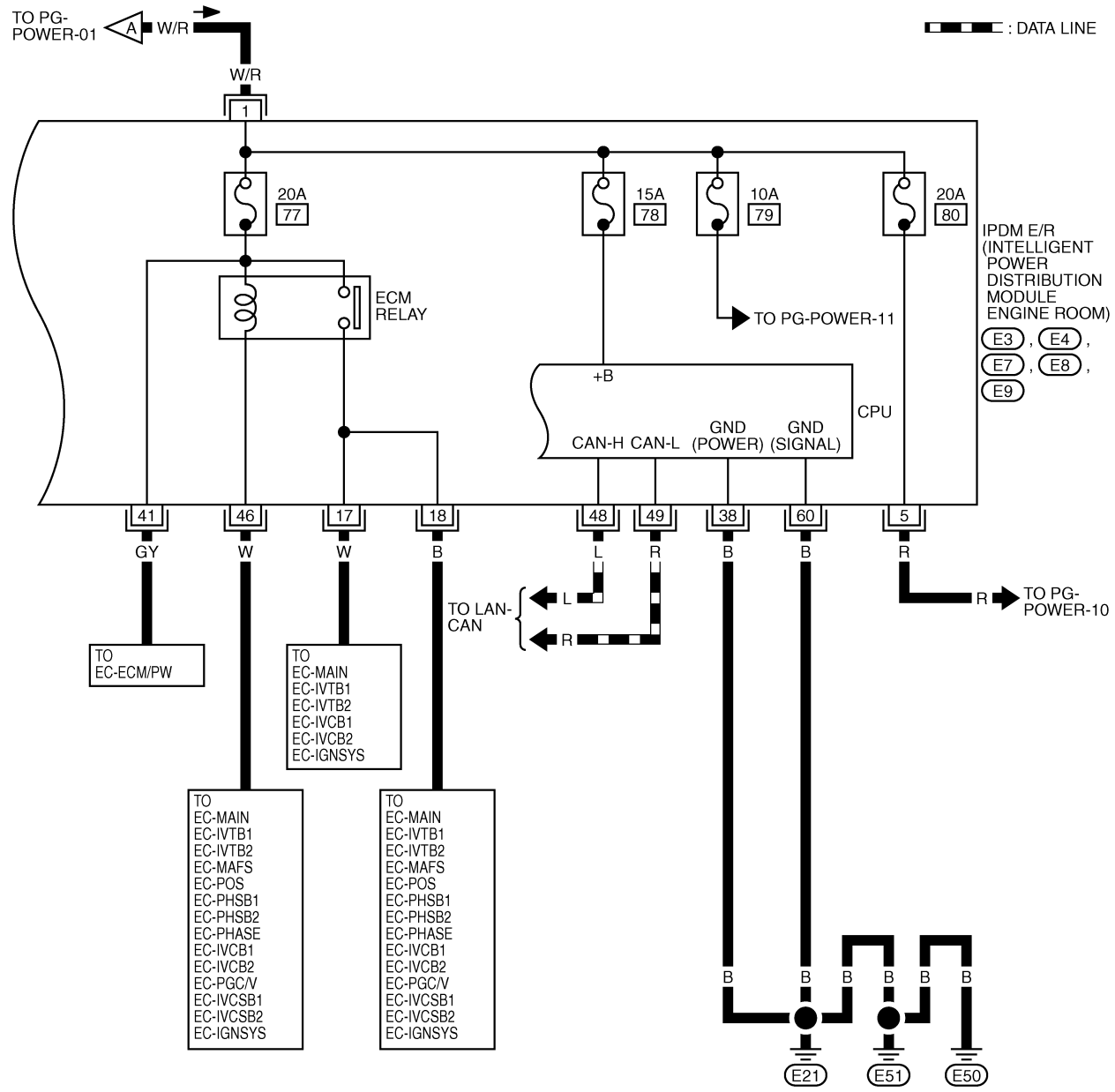
PG-POWER-05

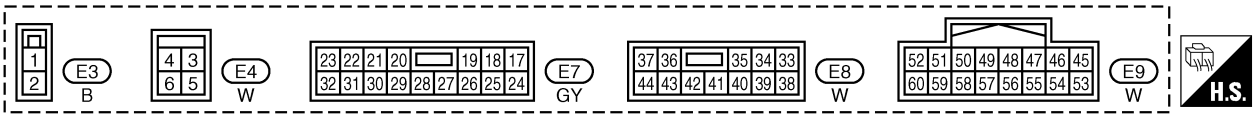




TKWM0712E

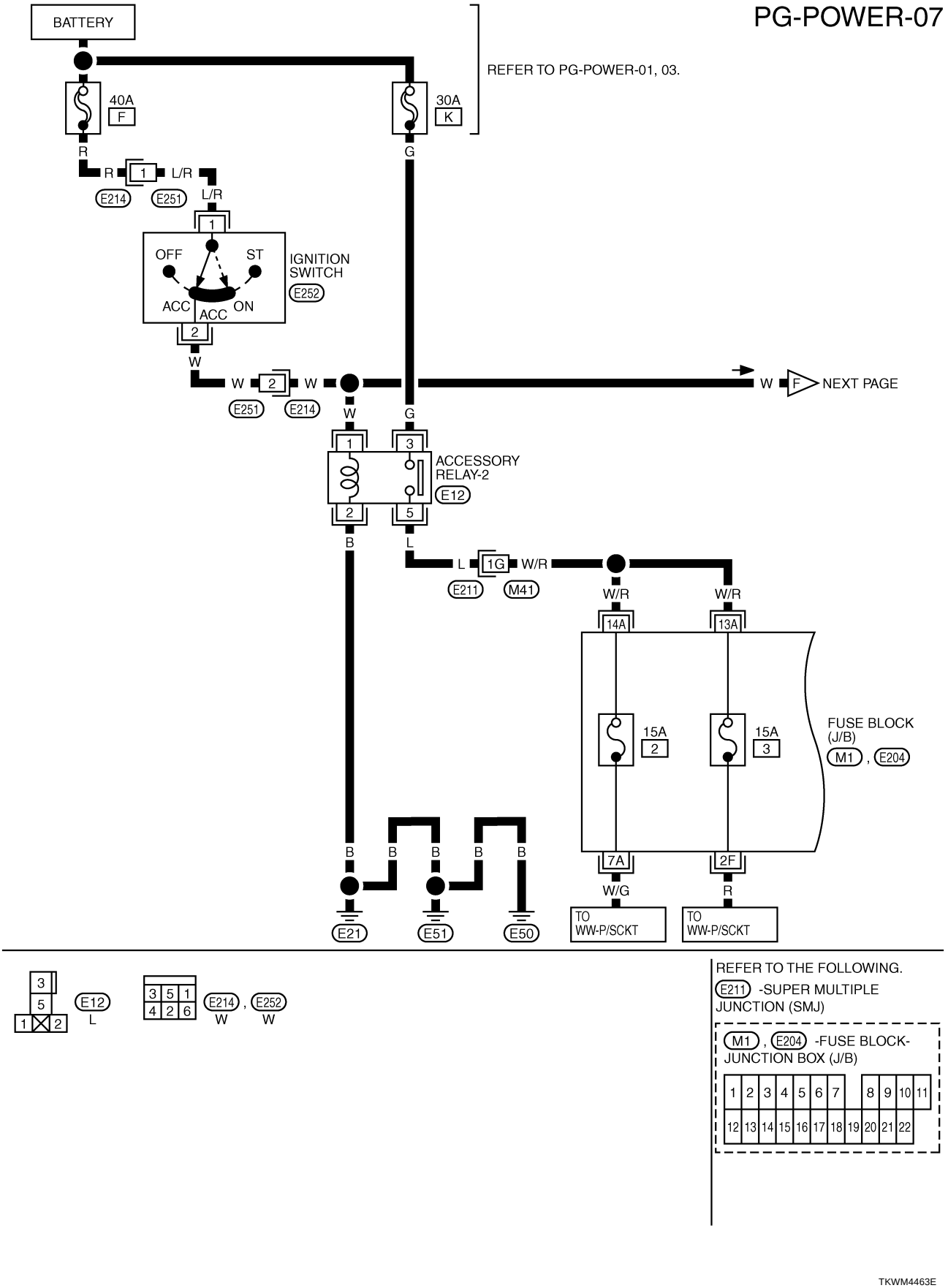
PG-POWER-06





TKWM4462E

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



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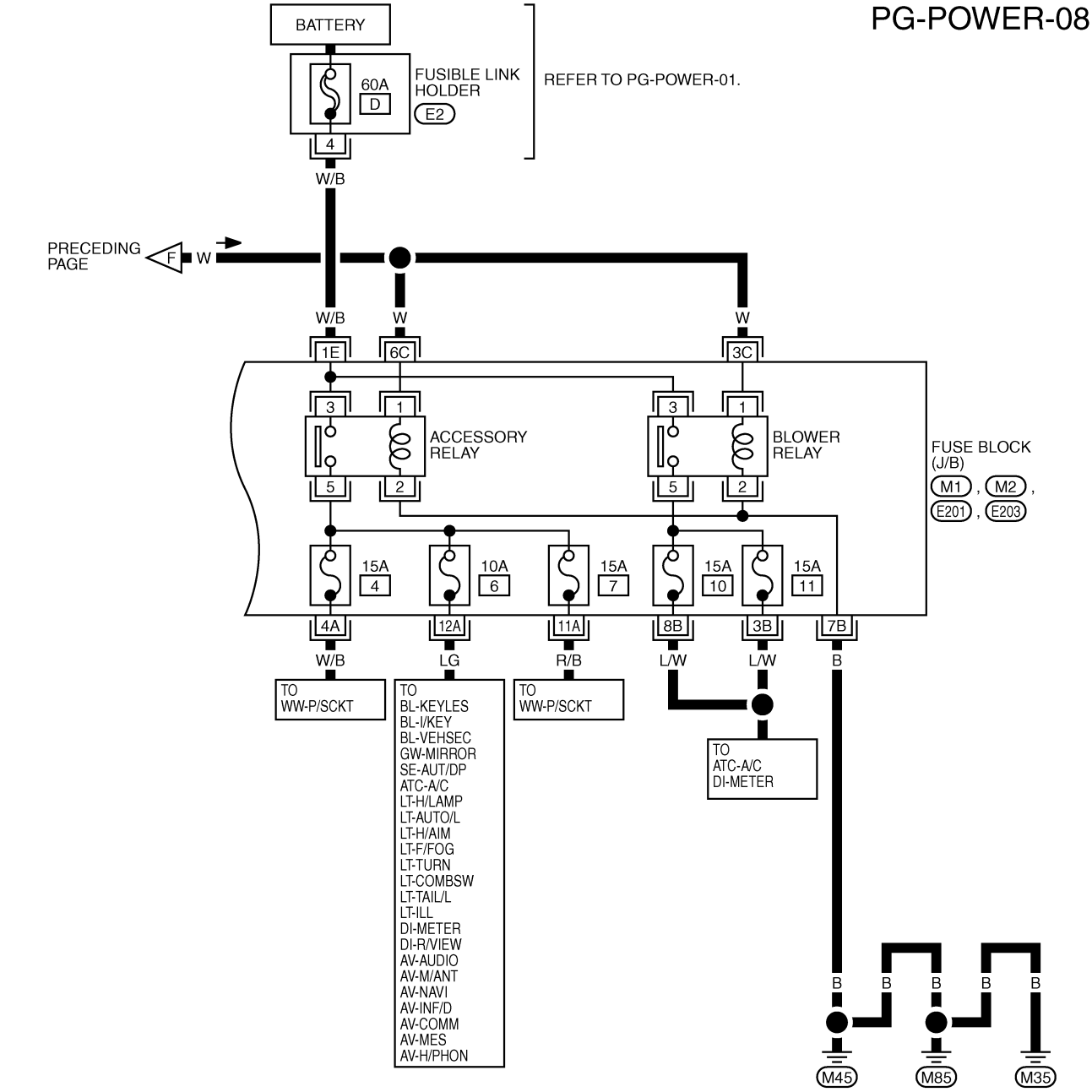
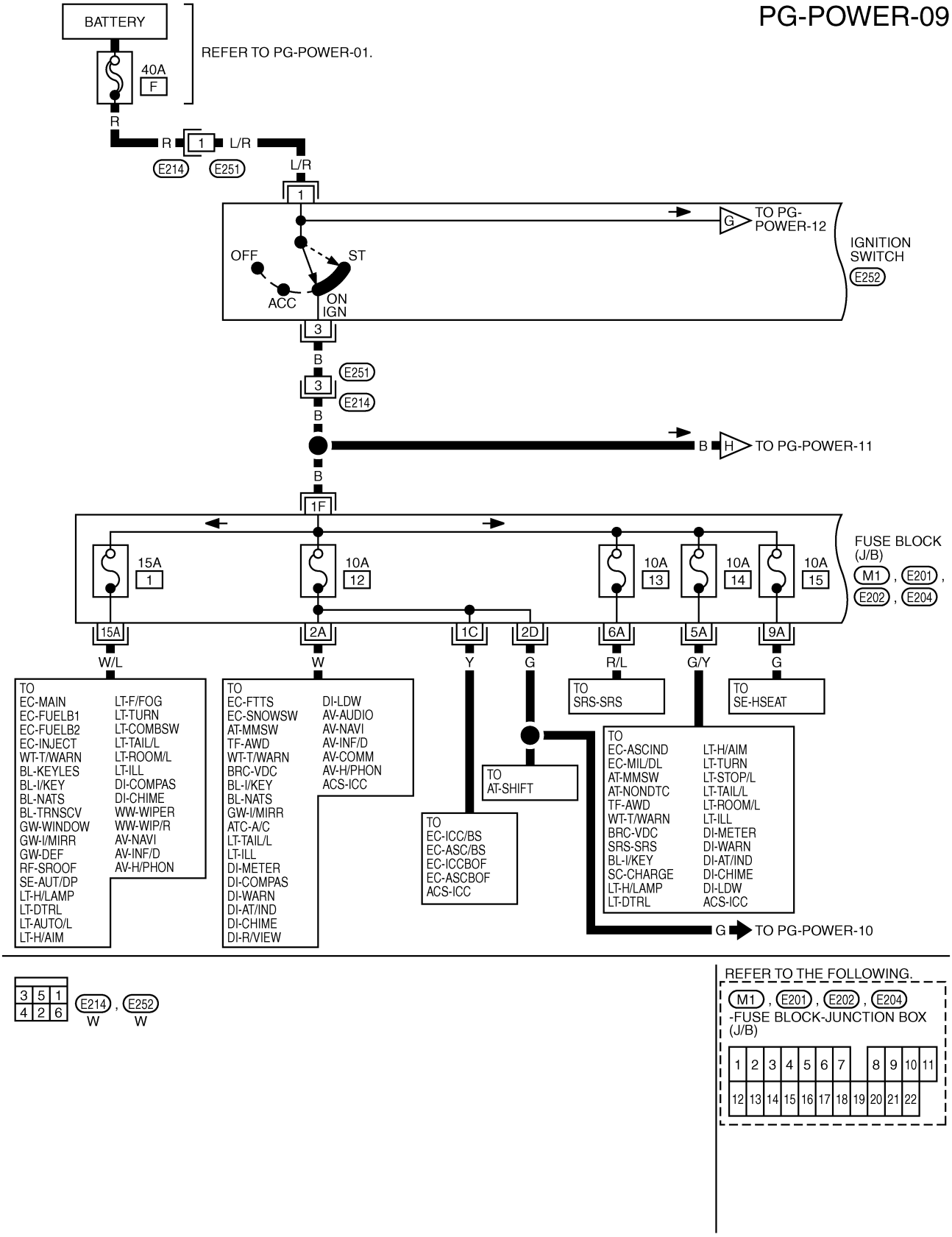

BATTERY
60A
D
FUSIBLE LINK HOLDER
E2
4
REFER TO PG-POWER-01.
W/B
PRECEDING PAGE
F
W
W/B
W
W
1E
6C
3C
3
1
5
2
ACCESSORY RELAY
BLOWER RELAY
FUSE BLOCK (J/B)
M1 , M2 , E201 , E203
15A 4
10A 6
15A 7
15A 10
15A 11
4A
12A
11A
8B
3B
7B
W/B
LG
R/B
L/W
L/W
B
TO WW-P/SCKT
TO BL-KEYLES BL-I/KEY BL-VEHSEC GW-MIRROR SE-AUT/DP ATC-A/C LT-H/LAMP LT-AUTO/L LT-H/AIM LT-F/FOG LT-TURN LT-COMBSW LT-TAIL/L LT-ILL DI-METER DI-R/VIEW AV-AUDIO AV-M/ANT AV-NAVI AV-INF/D AV-COMM AV-MES AV-H/PHON
TO WW-P/SCKT
TO ATC-A/C DI-METER
B
M45
M85
M35
3
4
E2
GY
REFER TO THE FOLLOWING.
M1 , M2 , E201 , E203
-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

TKWM4904E

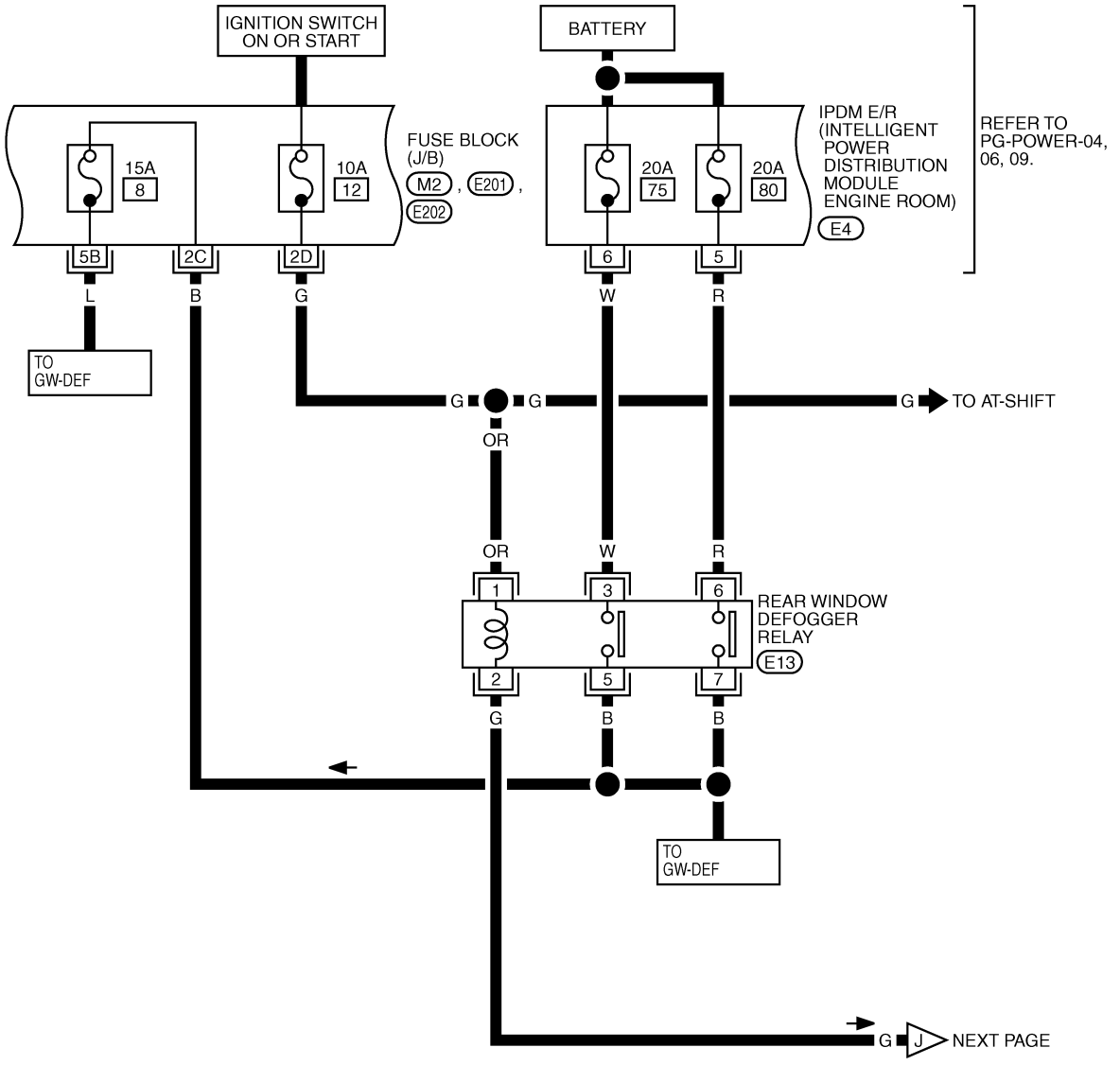
IGNITION POWER SUPPLY — IGNITION SW. IN “ON” AND/OR “START”

PG-POWER-09



TKWM4465E

PG-POWER-10



E4
W

E13
BR

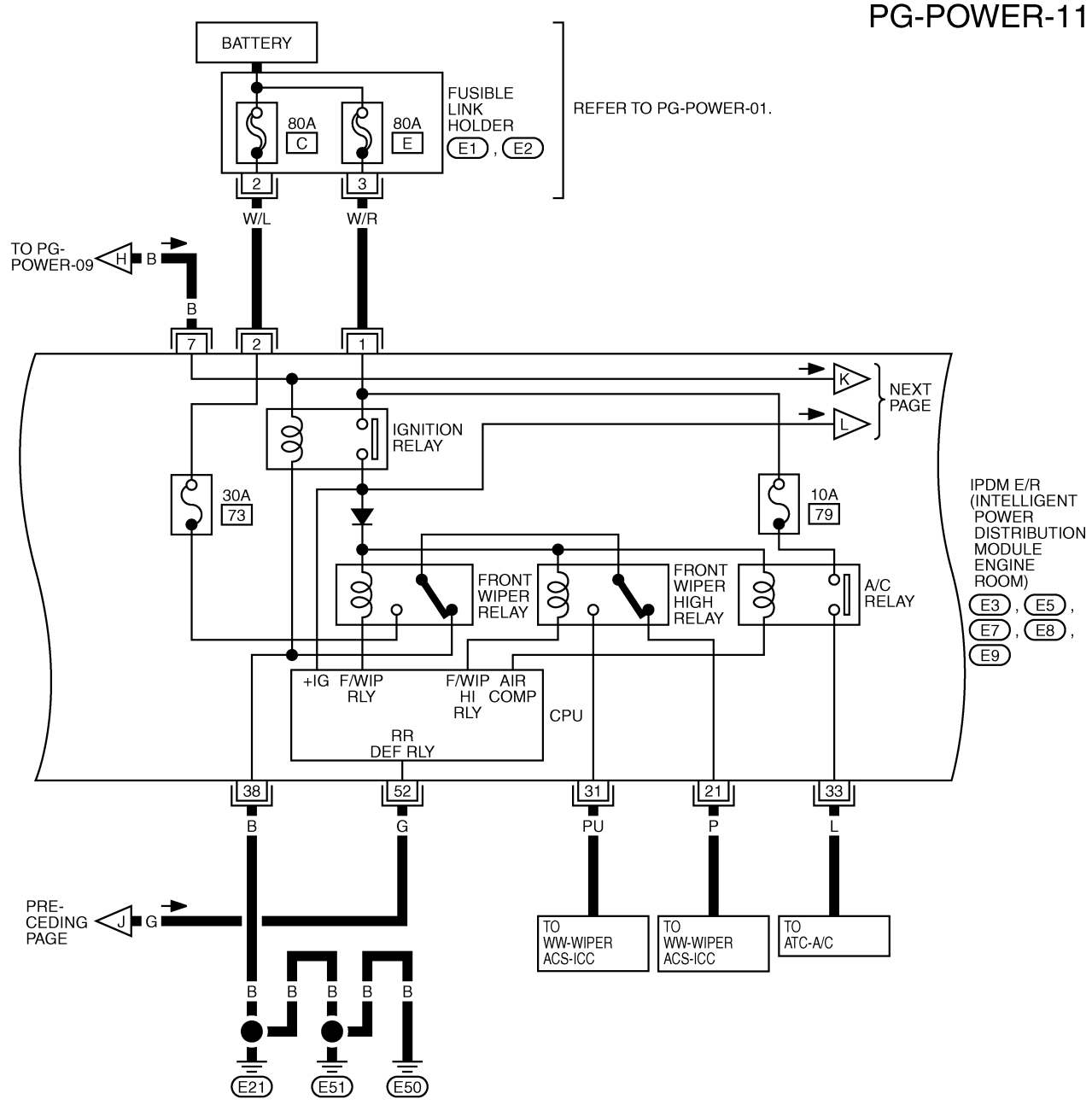
REFER TO THE FOLLOWING.

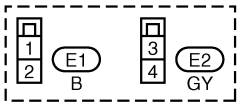
M2, E201, E202 -FUSE BLOCK-JUNCTION BOX (J/B)

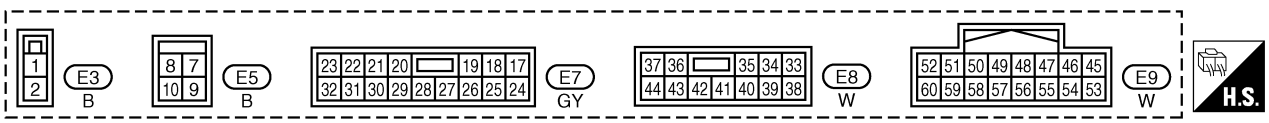
1	2	3	4	5	6	7		8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	

TKWM4466E

PG-POWER-11

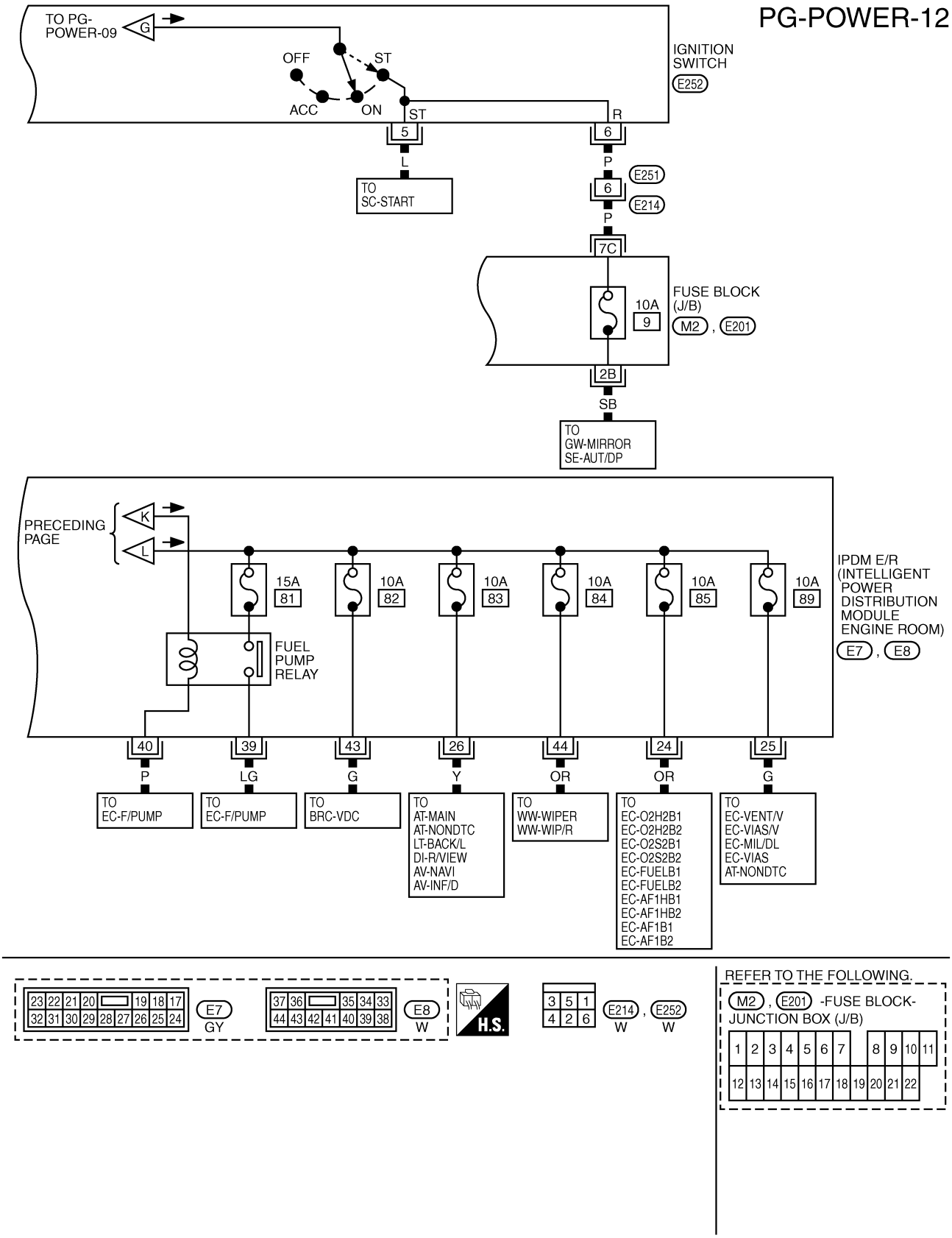






TKWM4467E

PG-POWER-12

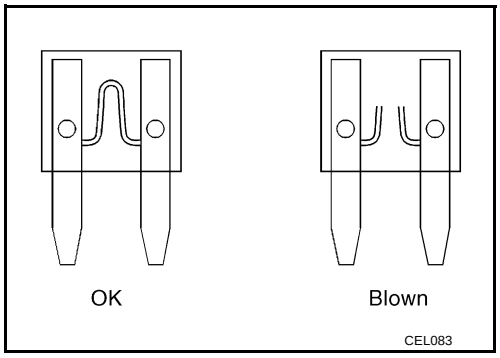


TKWM4468E

Fuse

NKS003G8

- 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.



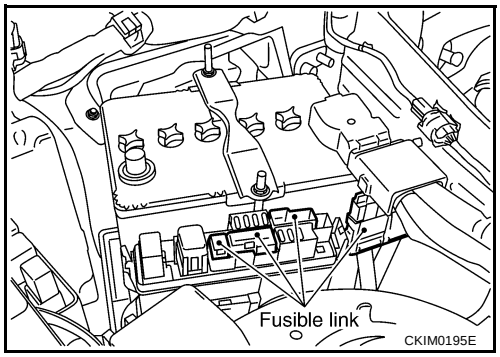
Fusible Link

NKS003G9

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:

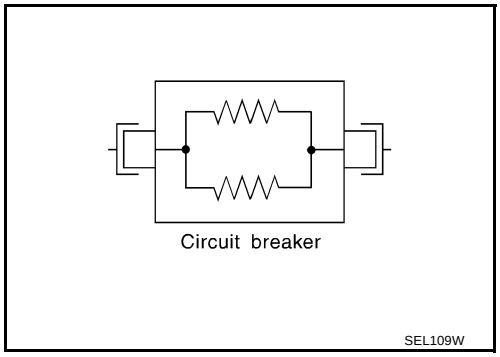
- **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.**
- **Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any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



Circuit Breaker

NKS003GA

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

NKS003GB

- 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, oil pressure switch signal, and 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	● Headlamps (HI, LO) ● Front fog lamps ● Parking, license plate, side marker 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
Horn control	BCM	Horn

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.
Parking, license plate side marker and tail lamps	● With the ignition switch ON, the parking, license plate, side marker and tail lamps is ON. ● With the ignition switch OFF, the parking, license plate, side marker and tail lamps is OFF.
Cooling fan	● With the ignition switch ON, the cooling fan HI operates. ● With the ignition switch OFF, the cooling fan stops.
Front wiper	Until the ignition switch is turned OFF, the front wiper LO and HI remains in the same status it was in just before fail-safe control was initiated.
Rear window defogger	Rear window defogger relay OFF
A/C compressor	A/C compressor OFF
Front fog lamps	Front fog lamp relay OFF

IPDM E/R STATUS CONTROL

In order to save power, IPDM E/R switches status 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 hood switch or ignition switch signal is detected, mode switches to CAN communication status.

CAN Communication System Description

NKS003GC

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

NKS003GD

Refer to LAN-49, "CAN System Specification Chart" .

Function of Detecting Ignition Relay Malfunction

NKS003GE

- When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON parking, license plate, side marker and tail lamps 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
ON	ON	—
OFF	OFF	—
ON	OFF	—
OFF	ON	ON (10 minutes)

NOTE:
When the ignition switch is turned ON, the tail lamps are OFF.

CONSULT-II Function (IPDM E/R)

NKS003GF

CONSULT-II can display each diagnostic item using the diagnostic test mode 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 INSPECTION PROCEDURE

Refer to GI-38, "CONSULT-II Start Procedure" .

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.

SELF-DIAG RESULTS

Operation Procedure

1. Touch “SELF-DIAG RESULTS” on “SELECT DIAG MODE” screen.
2. Check display content in self-diagnostic 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 CIRCUIT	U1000	● 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. ● TRANSMIT DIAG ● ECM ● BCM/SEC

NOTE:

The details for display of the period are as follows:

- CRNT: Error currently detected with IPDM E/R.
- PAST: Error detected in the past and memorized with IPDM E/R.

DATA MONITOR

Operation Procedure

1. Touch “DATA MONITOR” on “SELECT MONITOR ITEM ” screen.
2. Touch “ALL SIGNALS”, “MAIN SIGNALS” or “SELECTION FROM MENU” on the “DATA MONITOR” 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 Signals, Main Signals, Selection From Menu

Item name	CONSULT-II screen display	Display or unit	SELECT MONITOR ITEM			Description
			ALL SIG-NALS	MAIN SIG-NALS	SELECTION 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
Tail & clear 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
FR fog request	FR FOG REQ	ON/OFF	×	×	×	Signal status input from BCM
FR wiper request	FR WIP REQ	STOP/LO/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*1	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	OPEN/CLOSE	×		×	Signal status input in IPDM E/R
Hood switch	HOOD SW	ON/OFF	×		×	Input signal status
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
Cornering lamp request	CRNRNG LMP REQ*2	OFF/LEFT/ RIGHT	×		×	Signal status input from BCM

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: The vehicle without the Intelligent Key system displays only ON without change.
- *2:The cornering lamp item is displayed, but it cannot be monitored.

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 “OFF” 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.
Lamp (HI, LO, FOG) operation	LAMPS	With a certain operation (OFF, HI ON, LO ON, FOG ON), the lamp relay (Lo, Hi, Fog) can be operated.
Cornering lamp operation	CORNERING LAMP NOTE	—
Horn operation	HORN	With a certain ON-OFF operation, the horn relay can be operated.

NOTE:
This item is displayed, but cannot be tested.

Auto Active Test

NKS003GG

DESCRIPTION

In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:

- Rear window defogger
- Front wipers
- Parking, license plate, side marker and tail lamps
- Front fog lamps
- 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).

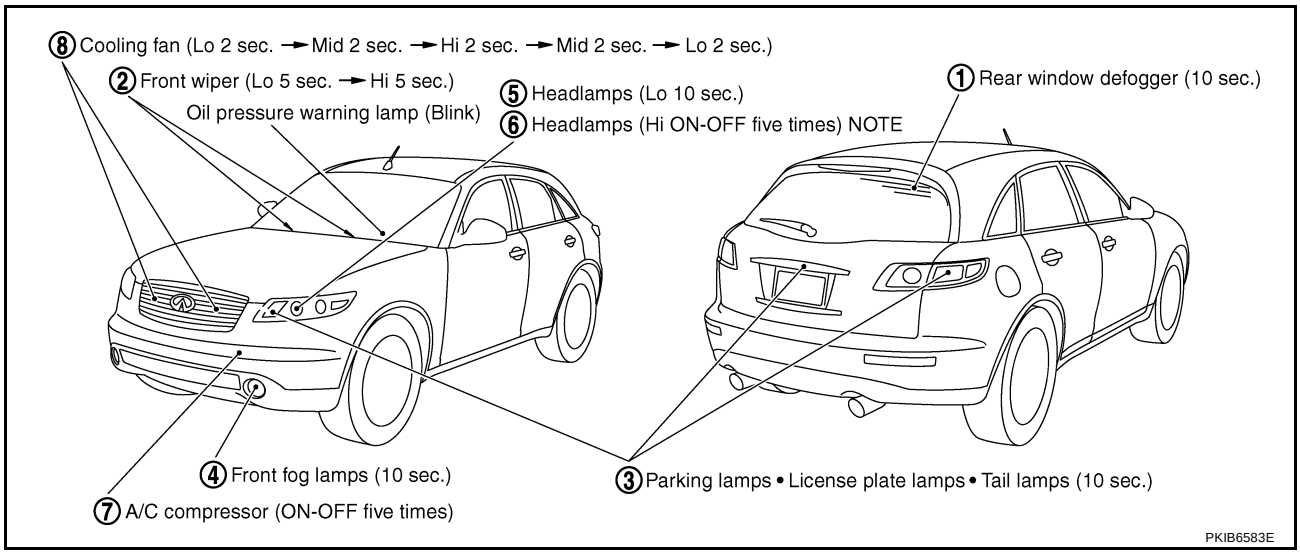
   NOTE:
   When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn ignition switch OFF.
3. Turn ignition switch ON, and within 20 seconds, press drivers door switch 10 times (close other doors). Then turn ignition switch OFF.
4. Turn ignition switch ON within 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-40, "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:
Turns ON-OFF the solenoid to switch Hi/Lo. In this case, the bulb does not illuminate.

Concept of Auto Active Test

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

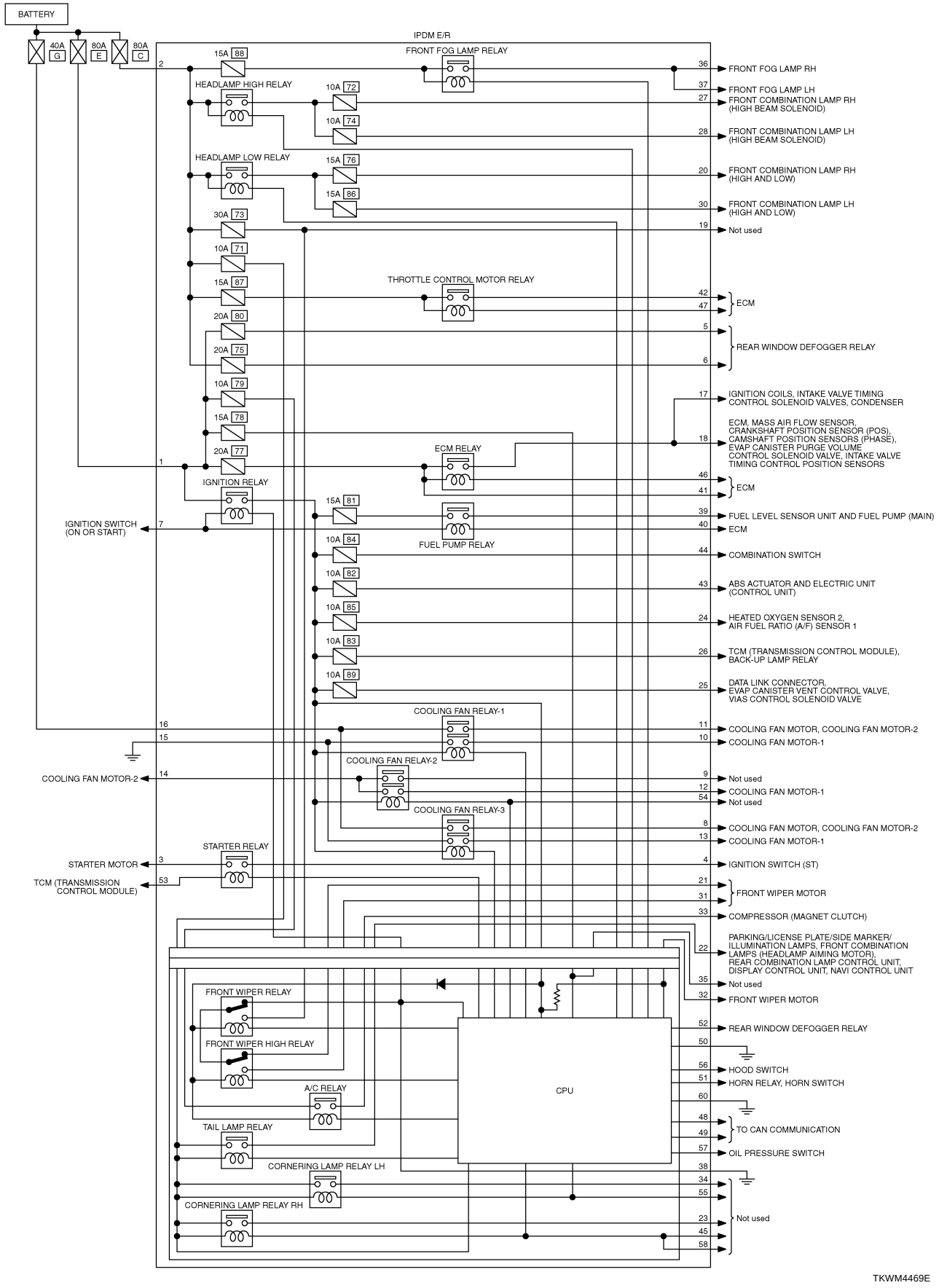
Diagnosis chart in auto active test mode

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

Symptom	Inspection contents		Possible cause
Oil pressure warning lamp does not operate.	Perform auto active test. Does oil pressure warning lamp blink?	YES	● Harness/connector malfunction between IPDM E/R and oil pressure switch ● Oil pressure switch malfunction ● IPDM E/R malfunction
		NO	● CAN communication signal between BCM and unified meter and A/C amp. ● Combination meter

Schematic

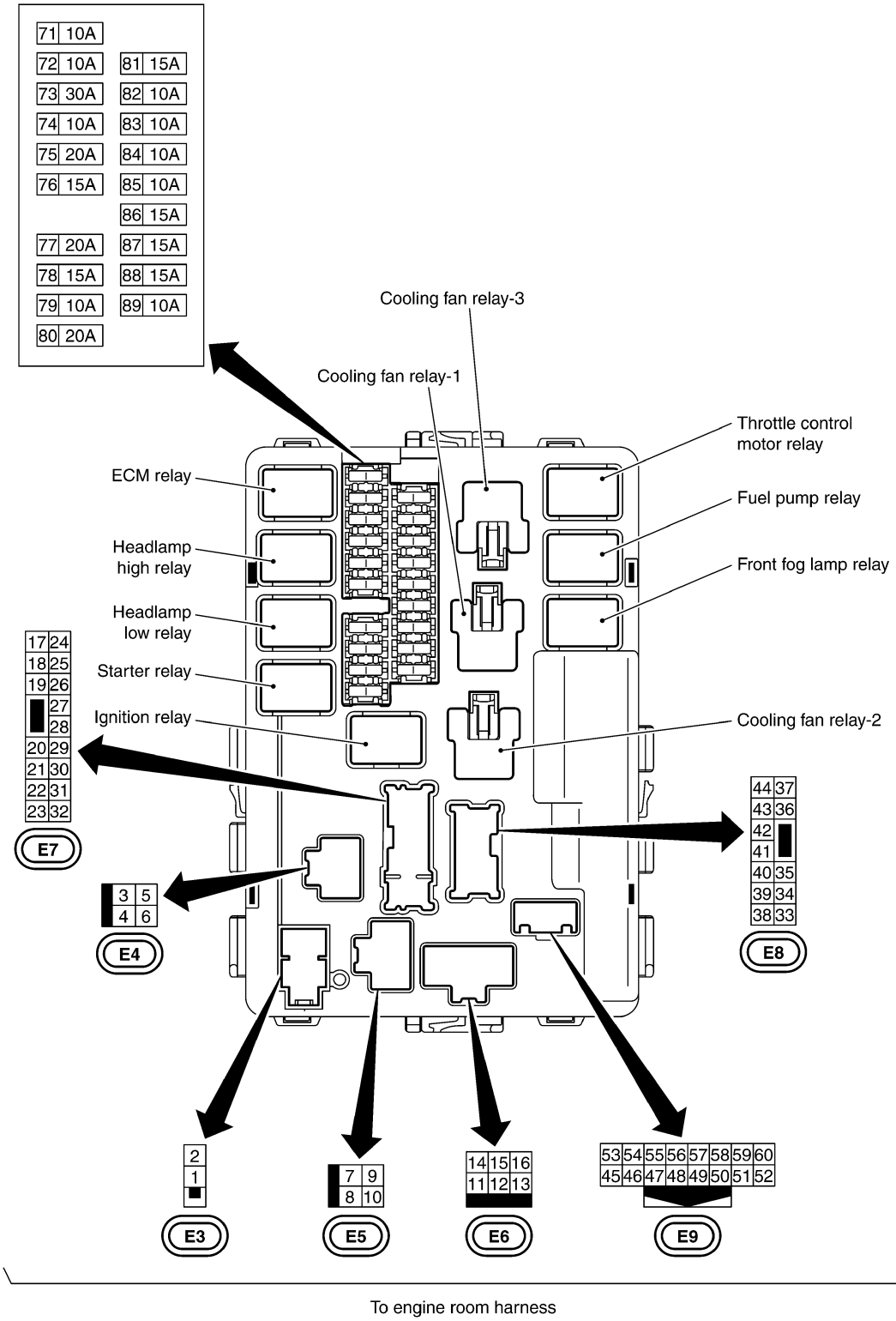
NKS003GH



TKWM4469E

IPDM E/R Terminal Arrangement

NKS003GI



IPDM E/R Power/Ground Circuit Inspection

NKS003GJ

1. CHECK FUSES AND FUSIBLE LINKS

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

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

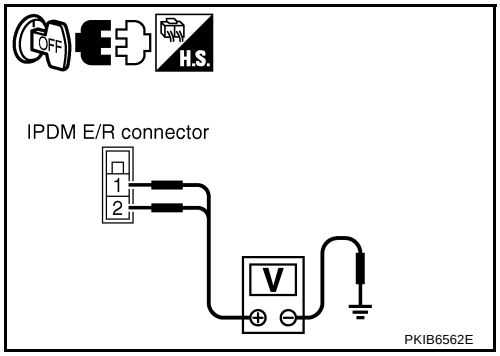
OK or NG

OK >> GO TO 2.
NG >> If fuse or fusible link blown, be sure to eliminate cause of malfunction before installing new one.

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



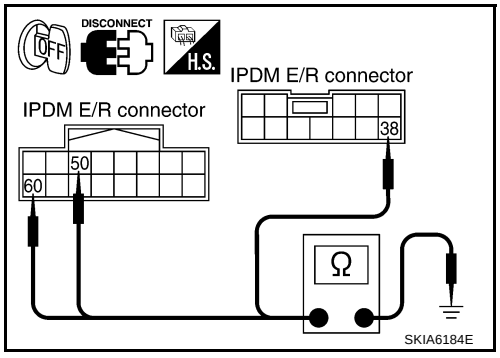
OK or NG

OK >> GO TO 3.
NG >> Repair harness or connector.

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 >> Repair harness or connector.

Inspection With CONSULT-II (Self-Diagnosis)

NKS003GK

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 “SELECT SYSTEM” screen.
2. Select “SELF-DIAG RESULTS” on the “SELECT DIAG MODE” screen.
3. Check display content in self diagnostic 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 CIRCUIT	U1000	×	×	Any of or several items below have errors. ● TRANSMIT DIAG ● ECM ● BCM/SEC

NOTE:

The details for display of the period are as follows:

- CRNT: Error currently detected with IPDM E/R.
- PAST: Error detected in the past and memorized with IPDM E/R.

Contents displayed

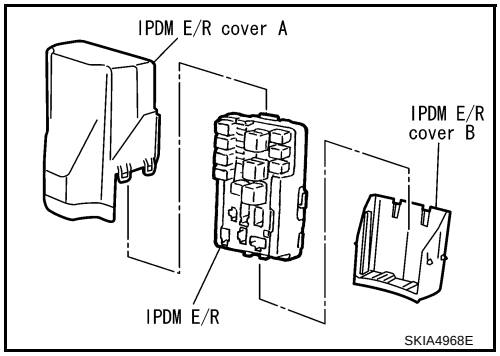
NO DTC IS DETECTED.FURTHER TESTING MAY BE REQUIRED.>> INSPECTION END
CAN COMM CIRCUIT>> Refer to LAN-49, "CAN System Specification Chart" .

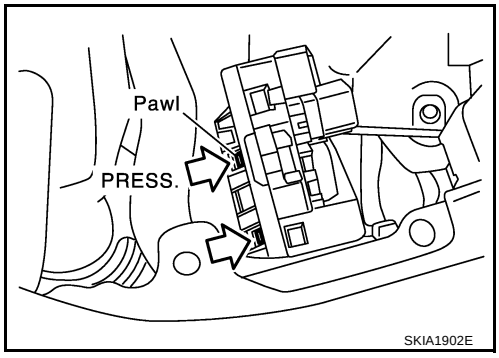
Removal and Installation of IPDM E/R

NKS003GL

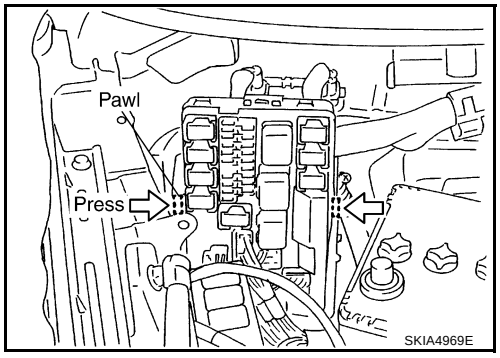
REMOVAL

1. Remove battery. Refer to SC-10, "Removal and Installation" .
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.

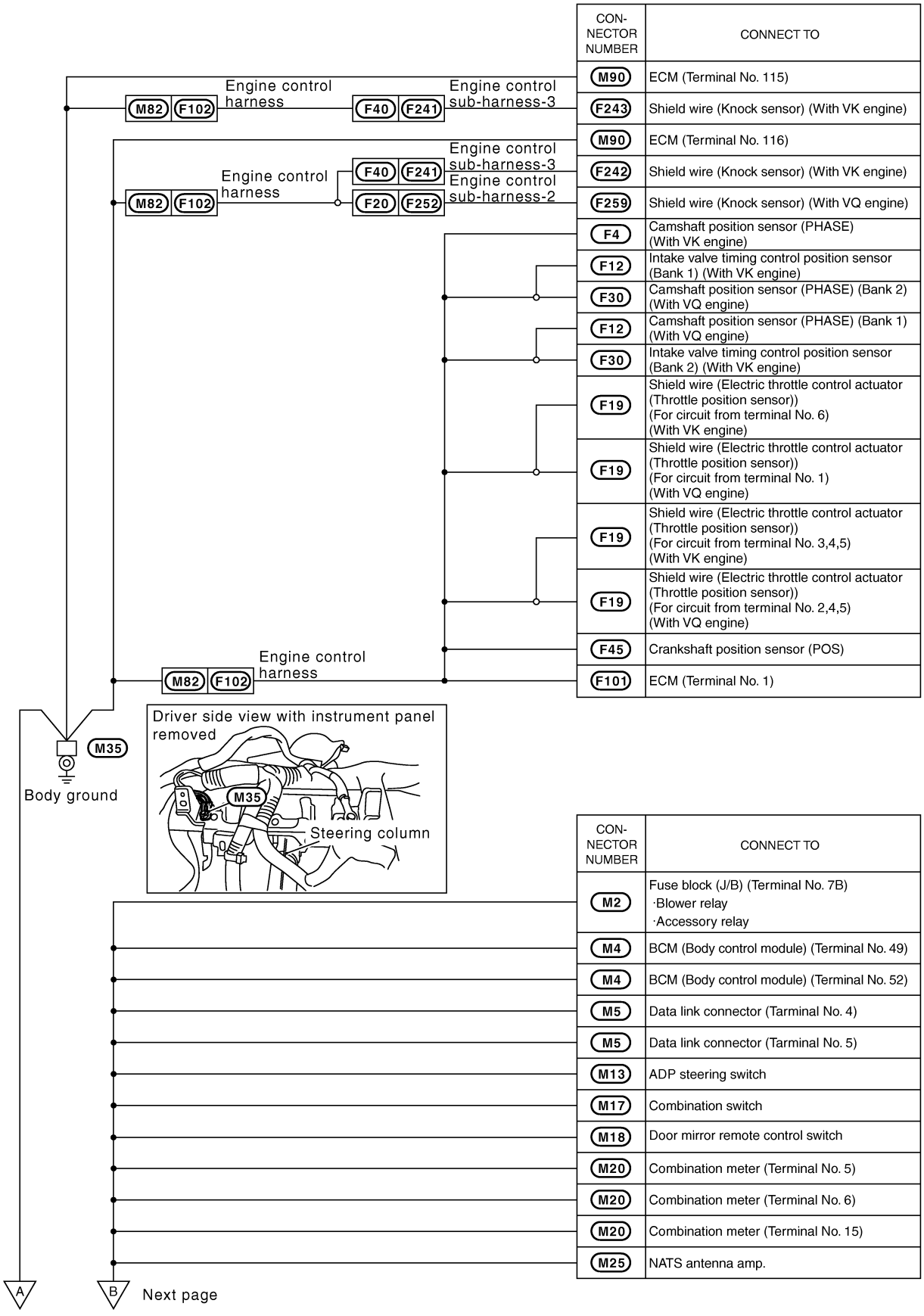
GROUND

PFP:00011

Ground Distribution

NKS003GM

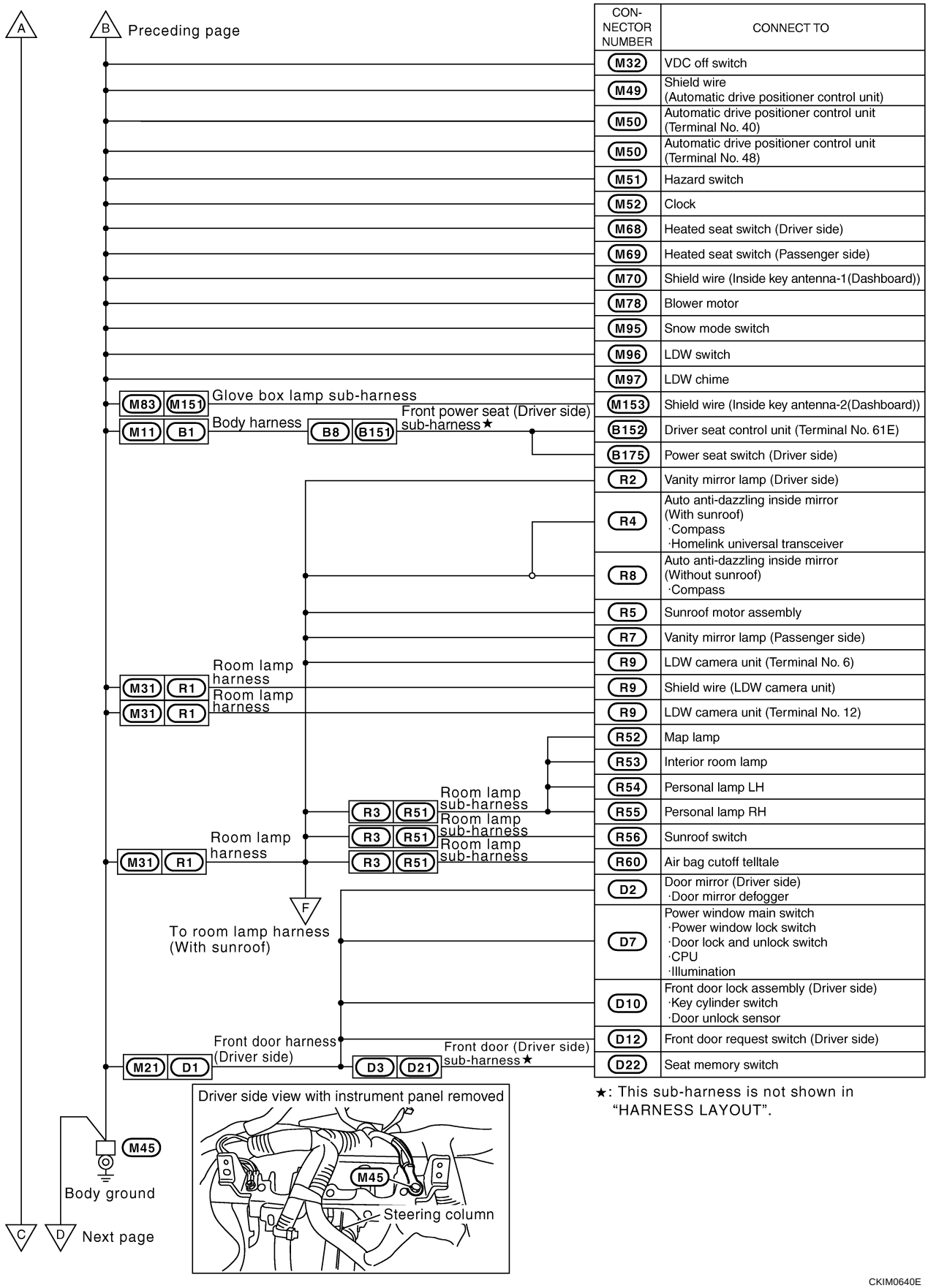
MAIN HARNESS



CONNECTOR NUMBER	CONNECT TO
M90	ECM (Terminal No. 115)
F243	Shield wire (Knock sensor) (With VK engine)
M90	ECM (Terminal No. 116)
F242	Shield wire (Knock sensor) (With VK engine)
F259	Shield wire (Knock sensor) (With VQ engine)
F4	Camshaft position sensor (PHASE) (With VK engine)
F12	Intake valve timing control position sensor (Bank 1) (With VK engine)
F30	Camshaft position sensor (PHASE) (Bank 2) (With VQ engine)
F12	Camshaft position sensor (PHASE) (Bank 1) (With VQ engine)
F30	Intake valve timing control position sensor (Bank 2) (With VK engine)
F19	Shield wire (Electric throttle control actuator (Throttle position sensor)) (For circuit from terminal No. 6) (With VK engine)
F19	Shield wire (Electric throttle control actuator (Throttle position sensor)) (For circuit from terminal No. 1) (With VQ engine)
F19	Shield wire (Electric throttle control actuator (Throttle position sensor)) (For circuit from terminal No. 3,4,5) (With VK engine)
F19	Shield wire (Electric throttle control actuator (Throttle position sensor)) (For circuit from terminal No. 2,4,5) (With VQ engine)
F45	Crankshaft position sensor (POS)
F101	ECM (Terminal No. 1)

CONNECTOR NUMBER	CONNECT TO
M2	Fuse block (J/B) (Terminal No. 7B) ·Blower relay ·Accessory relay
M4	BCM (Body control module) (Terminal No. 49)
M4	BCM (Body control module) (Terminal No. 52)
M5	Data link connector (Tarminal No. 4)
M5	Data link connector (Tarminal No. 5)
M13	ADP steering switch
M17	Combination switch
M18	Door mirror remote control switch
M20	Combination meter (Terminal No. 5)
M20	Combination meter (Terminal No. 6)
M20	Combination meter (Terminal No. 15)
M25	NATS antenna amp.

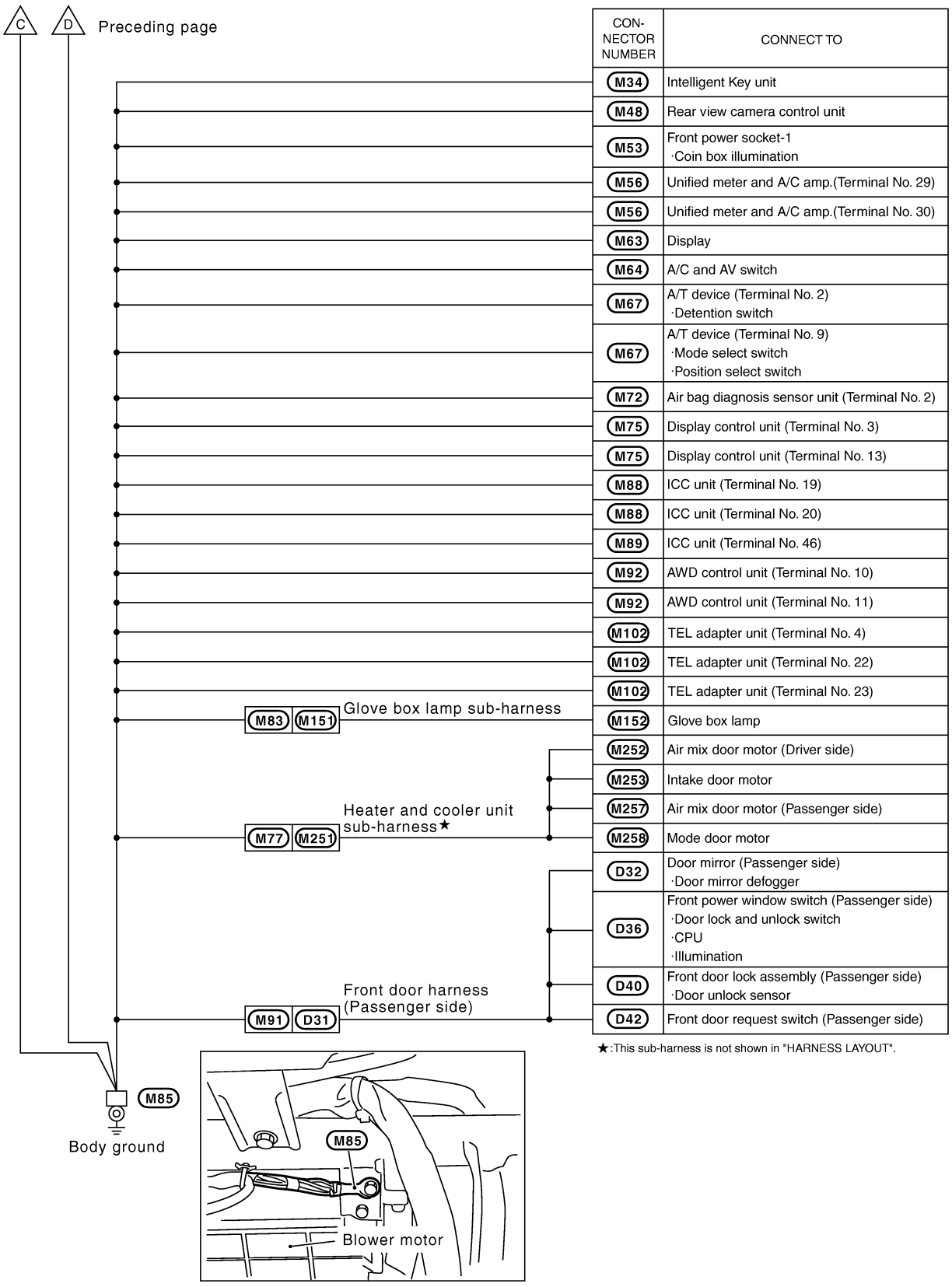
CKIM0639E



CONNECTOR NUMBER	CONNECT TO
M32	VDC off switch
M49	Shield wire (Automatic drive positioner control unit)
M50	Automatic drive positioner control unit (Terminal No. 40)
M50	Automatic drive positioner control unit (Terminal No. 48)
M51	Hazard switch
M52	Clock
M68	Heated seat switch (Driver side)
M69	Heated seat switch (Passenger side)
M70	Shield wire (Inside key antenna-1(Dashboard))
M78	Blower motor
M95	Snow mode switch
M96	LDW switch
M97	LDW chime
M153	Shield wire (Inside key antenna-2(Dashboard))
B152	Driver seat control unit (Terminal No. 61E)
B175	Power seat switch (Driver side)
R2	Vanity mirror lamp (Driver side)
R4	Auto anti-dazzling inside mirror (With sunroof) ·Compass ·Homelink universal transceiver
R8	Auto anti-dazzling inside mirror (Without sunroof) ·Compass
R5	Sunroof motor assembly
R7	Vanity mirror lamp (Passenger side)
R9	LDW camera unit (Terminal No. 6)
R9	Shield wire (LDW camera unit)
R9	LDW camera unit (Terminal No. 12)
R52	Map lamp
R53	Interior room lamp
R54	Personal lamp LH
R55	Personal lamp RH
R56	Sunroof switch
R60	Air bag cutoff telltale
D2	Door mirror (Driver side) ·Door mirror defogger
D7	Power window main switch ·Power window lock switch ·Door lock and unlock switch ·CPU ·Illumination
D10	Front door lock assembly (Driver side) ·Key cylinder switch ·Door unlock sensor
D12	Front door request switch (Driver side)
D22	Seat memory switch

★: This sub-harness is not shown in "HARNESS LAYOUT".

CKIM0640E

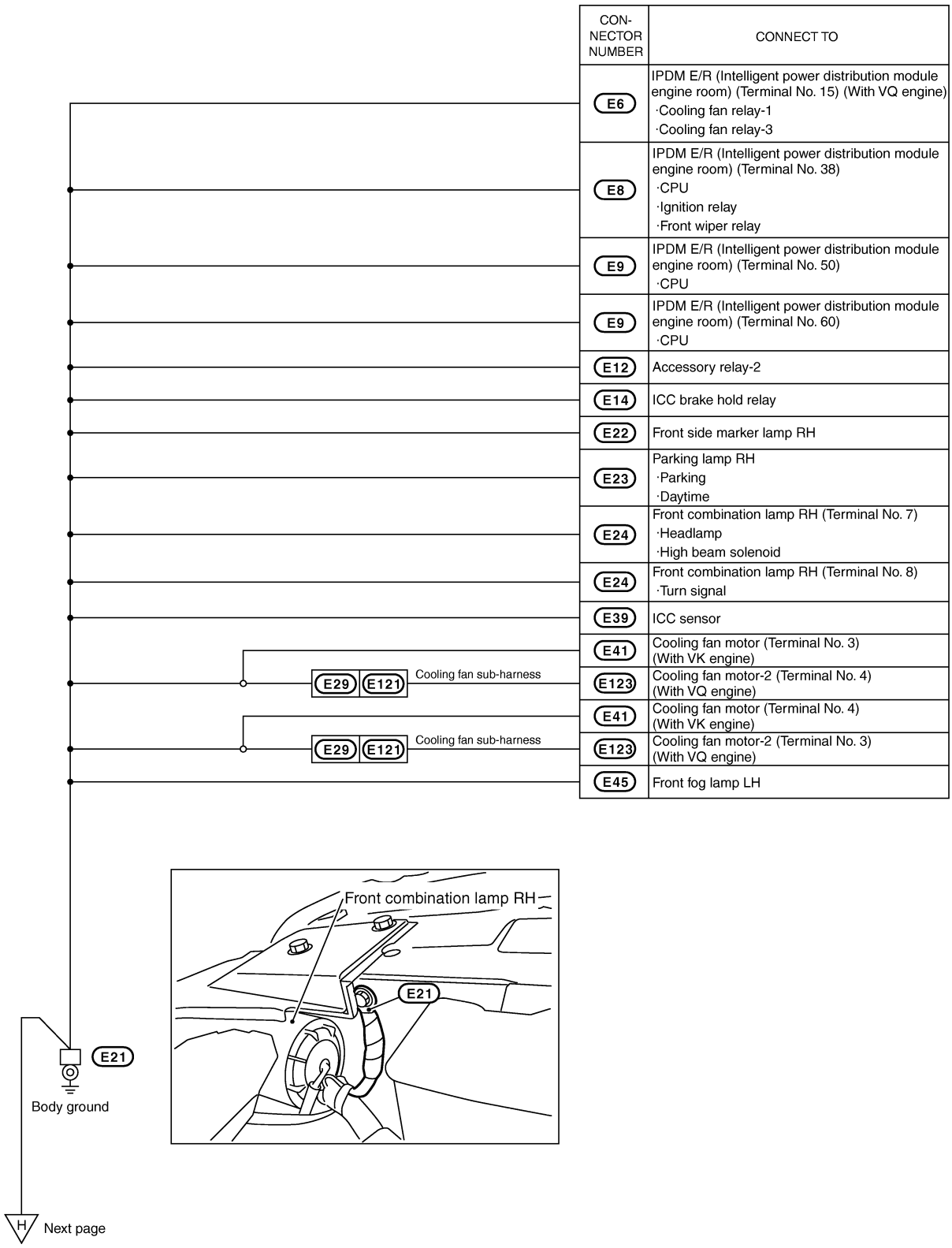


CON-NECTOR NUMBER	CONNECT TO
M34	Intelligent Key unit
M48	Rear view camera control unit
M53	Front power socket-1 ·Coin box illumination
M56	Unified meter and A/C amp.(Terminal No. 29)
M56	Unified meter and A/C amp.(Terminal No. 30)
M63	Display
M64	A/C and AV switch
M67	A/T device (Terminal No. 2) ·Detention switch
M67	A/T device (Terminal No. 9) ·Mode select switch ·Position select switch
M72	Air bag diagnosis sensor unit (Terminal No. 2)
M75	Display control unit (Terminal No. 3)
M75	Display control unit (Terminal No. 13)
M88	ICC unit (Terminal No. 19)
M88	ICC unit (Terminal No. 20)
M89	ICC unit (Terminal No. 46)
M92	AWD control unit (Terminal No. 10)
M92	AWD control unit (Terminal No. 11)
M102	TEL adapter unit (Terminal No. 4)
M102	TEL adapter unit (Terminal No. 22)
M102	TEL adapter unit (Terminal No. 23)
M152	Glove box lamp
M252	Air mix door motor (Driver side)
M253	Intake door motor
M257	Air mix door motor (Passenger side)
M258	Mode door motor
D32	Door mirror (Passenger side) ·Door mirror defogger
D36	Front power window switch (Passenger side) ·Door lock and unlock switch ·CPU ·Illumination
D40	Front door lock assembly (Passenger side) ·Door unlock sensor
D42	Front door request switch (Passenger side)

★:This sub-harness is not shown in "HARNESS LAYOUT".

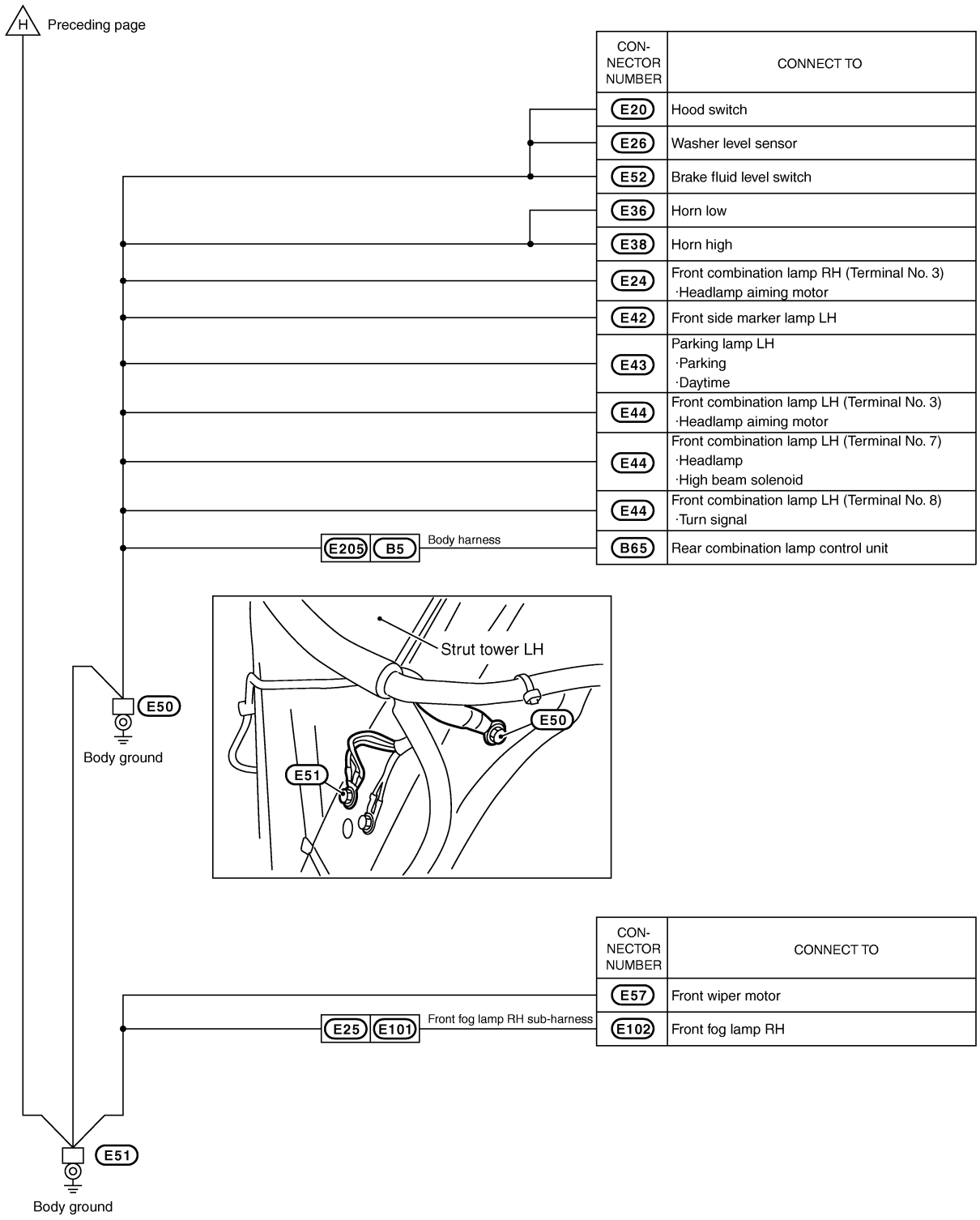
CKIM0641E

ENGINE ROOM HARNESS

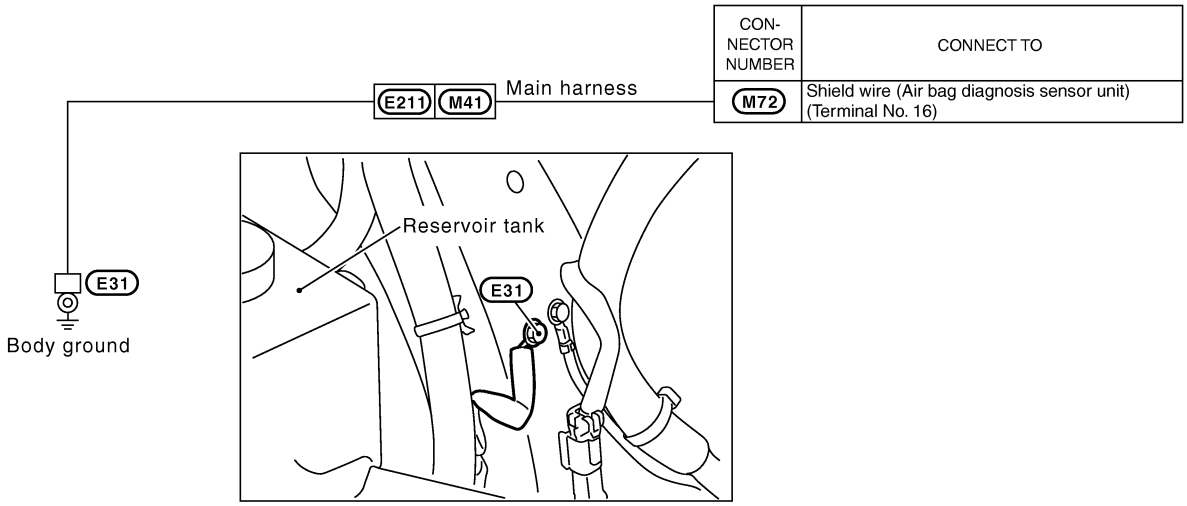


CON-NECTOR NUMBER	CONNECT TO
E6	IPDM E/R (Intelligent power distribution module engine room) (Terminal No. 15) (With VQ engine) ·Cooling fan relay-1 ·Cooling fan relay-3
E8	IPDM E/R (Intelligent power distribution module engine room) (Terminal No. 38) ·CPU ·Ignition relay ·Front wiper relay
E9	IPDM E/R (Intelligent power distribution module engine room) (Terminal No. 50) ·CPU
E9	IPDM E/R (Intelligent power distribution module engine room) (Terminal No. 60) ·CPU
E12	Accessory relay-2
E14	ICC brake hold relay
E22	Front side marker lamp RH
E23	Parking lamp RH ·Parking ·Daytime
E24	Front combination lamp RH (Terminal No. 7) ·Headlamp ·High beam solenoid
E24	Front combination lamp RH (Terminal No. 8) ·Turn signal
E39	ICC sensor
E41	Cooling fan motor (Terminal No. 3) (With VK engine)
E123	Cooling fan motor-2 (Terminal No. 4) (With VQ engine)
E41	Cooling fan motor (Terminal No. 4) (With VK engine)
E123	Cooling fan motor-2 (Terminal No. 3) (With VQ engine)
E45	Front fog lamp LH

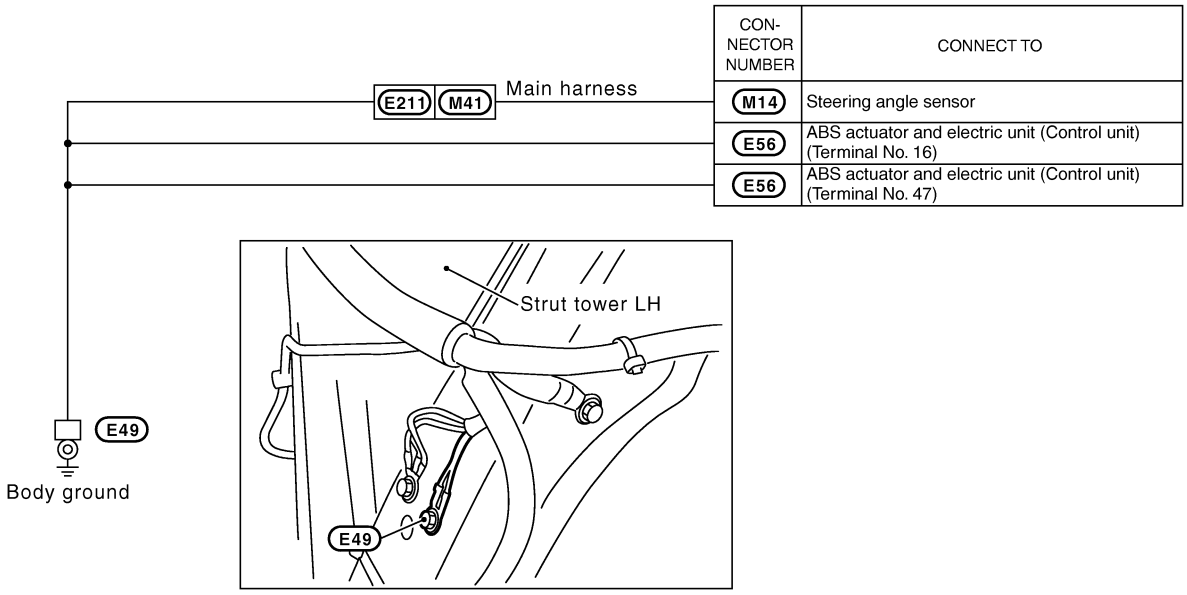
CKIM0654E


H
Preceding page
CON-NECTOR NUMBER
CONNECT TO
E20
Hood switch
E26
Washer level sensor
E52
Brake fluid level switch
E36
Horn low
E38
Horn high
E24
Front combination lamp RH (Terminal No. 3)
·Headlamp aiming motor
E42
Front side marker lamp LH
E43
Parking lamp LH
·Parking
·Daytime
E44
Front combination lamp LH (Terminal No. 3)
·Headlamp aiming motor
E44
Front combination lamp LH (Terminal No. 7)
·Headlamp
·High beam solenoid
E44
Front combination lamp LH (Terminal No. 8)
·Turn signal
E205
B5
Body harness
B65
Rear combination lamp control unit
E50
Body ground
Strut tower LH
E50
E51
CON-NECTOR NUMBER
CONNECT TO
E57
Front wiper motor
E25
E101
Front fog lamp RH sub-harness
E102
Front fog lamp RH
E51
Body ground

CKIM0655E



CON-NECTOR NUMBER	CONNECT TO
M72	Shield wire (Air bag diagnosis sensor unit) (Terminal No. 16)

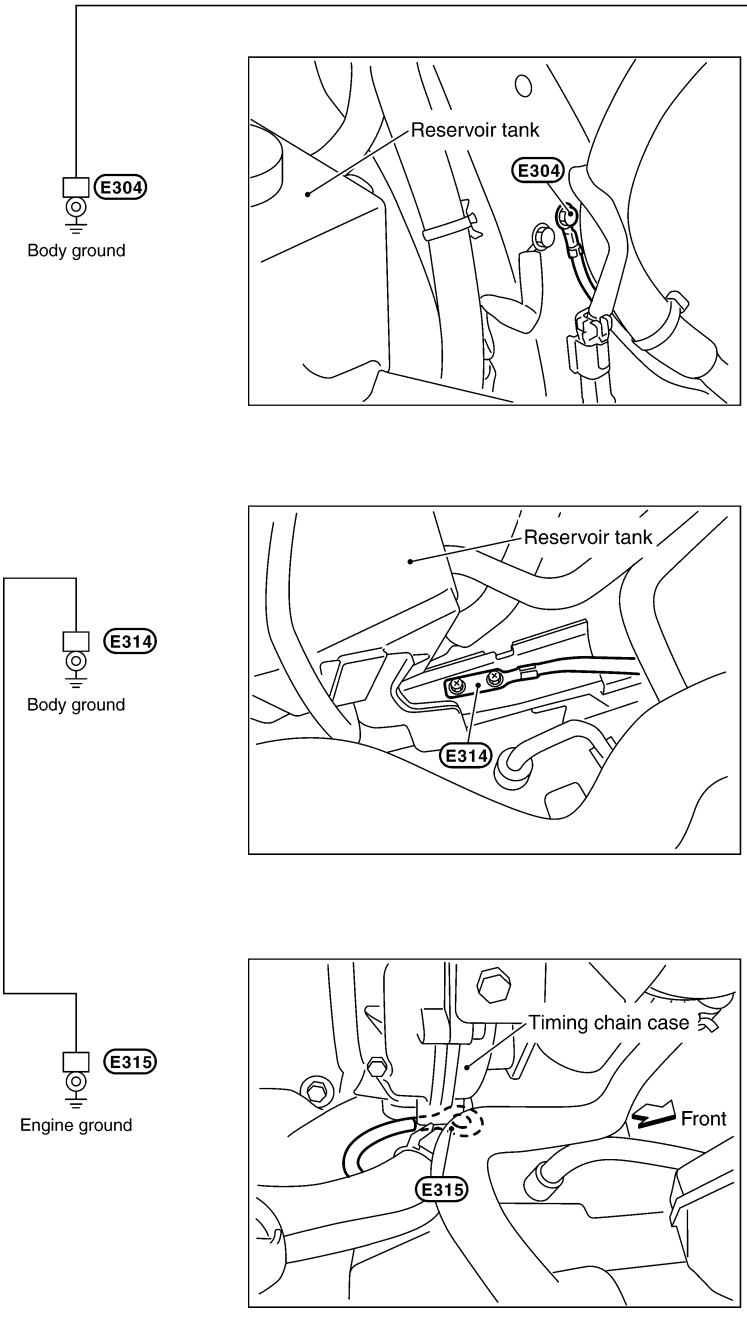


CON-NECTOR NUMBER	CONNECT TO
M14	Steering angle sensor
E56	ABS actuator and electric unit (Control unit) (Terminal No. 16)
E56	ABS actuator and electric unit (Control unit) (Terminal No. 47)

CKIM0642E

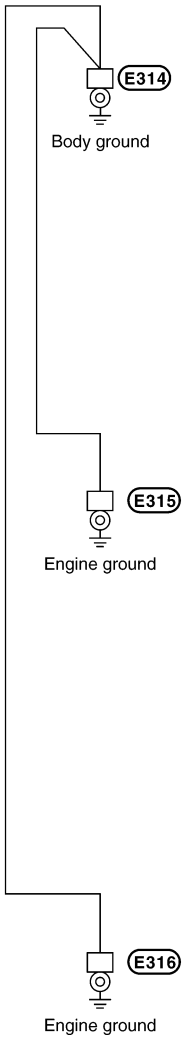
ENGINE HARNESS/VK ENGINE MODELS

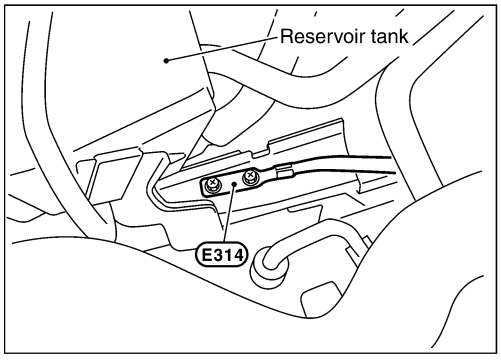
CON-NECTOR NUMBER	CONNECT TO
E309	Alternator

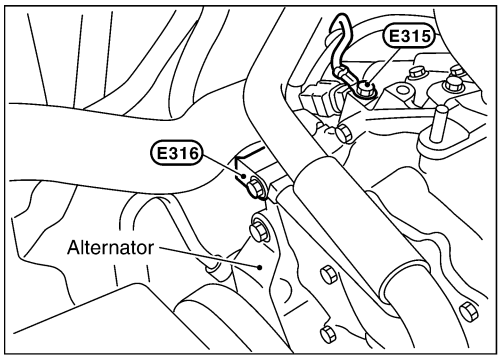


CKIM0203E

ENGINE HARNESS/VQ ENGINE MODELS



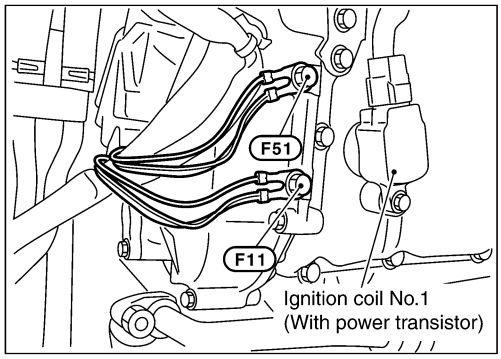




CKIM0204E

ENGINE CONTROL HARNESS/VK ENGINE MODELS

CON-NECTOR NUMBER	CONNECT TO
F23	Condenser
F44	A/T assembly (Terminal No.5)
F44	A/T assembly (Terminal No.10)



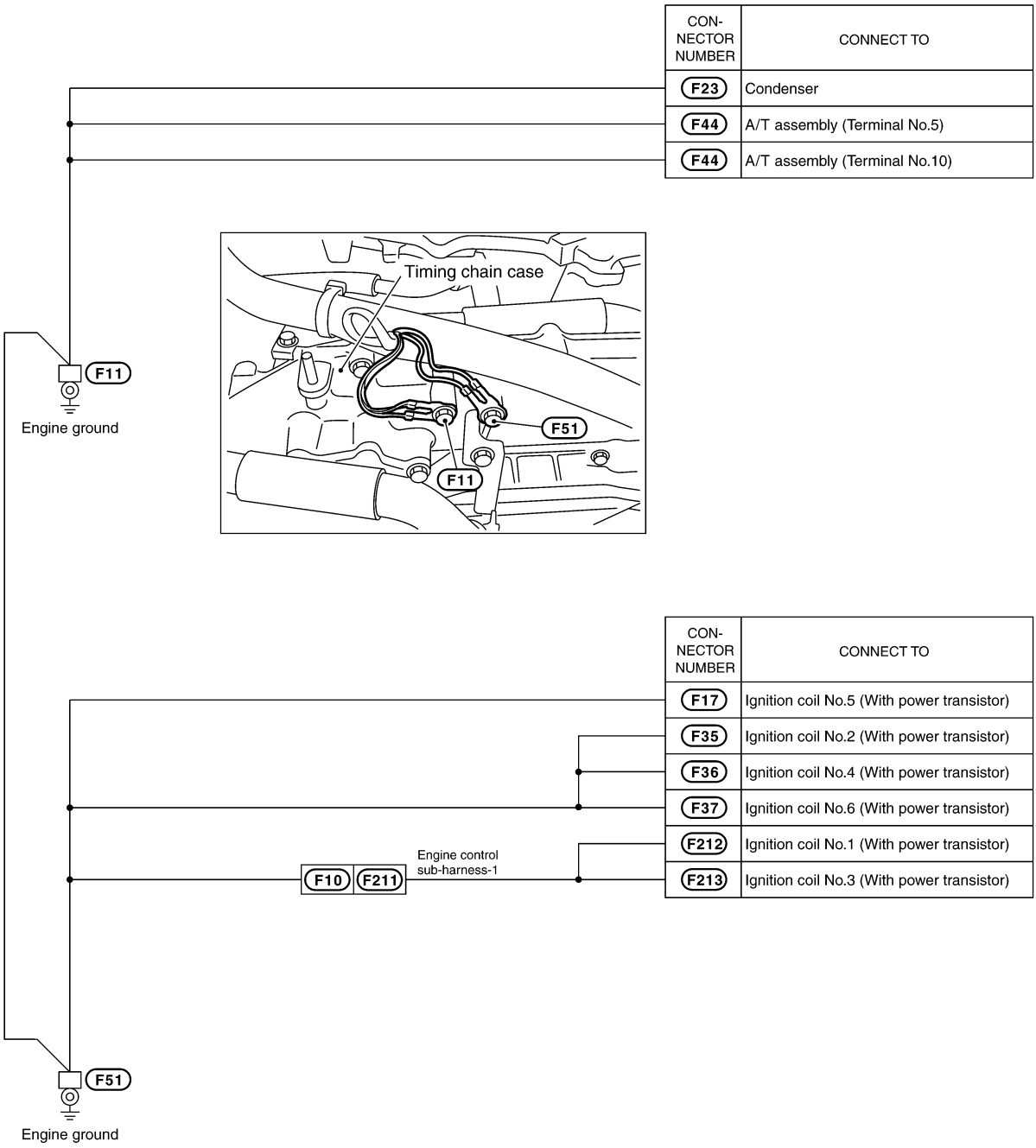
CON-NECTOR NUMBER	CONNECT TO
F15	Ignition coil No.1 (With power transistor)
F16	Ignition coil No.3 (With power transistor)
F17	Ignition coil No.5 (With power transistor)
F18	Ignition coil No.7 (With power transistor)
F35	Ignition coil No.2 (With power transistor)
F36	Ignition coil No.4 (With power transistor)
F37	Ignition coil No.6 (With power transistor)
F38	Ignition coil No.8 (With power transistor)

F11
Engine ground

F51
Engine ground

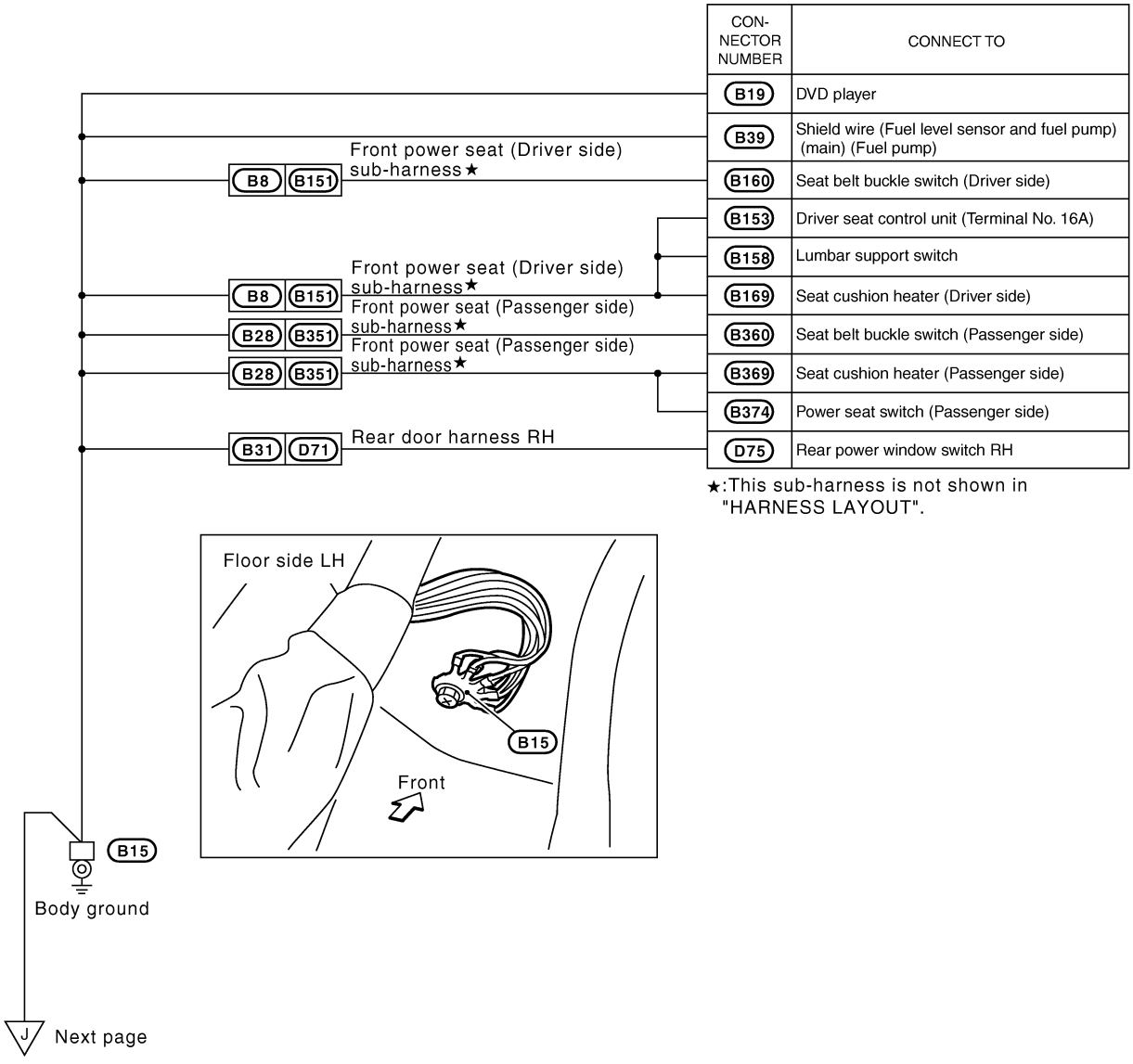
CKIM0408E

ENGINE CONTROL HARNESS/VQ ENGINE MODELS



CKIM0409E

BODY HARNESS



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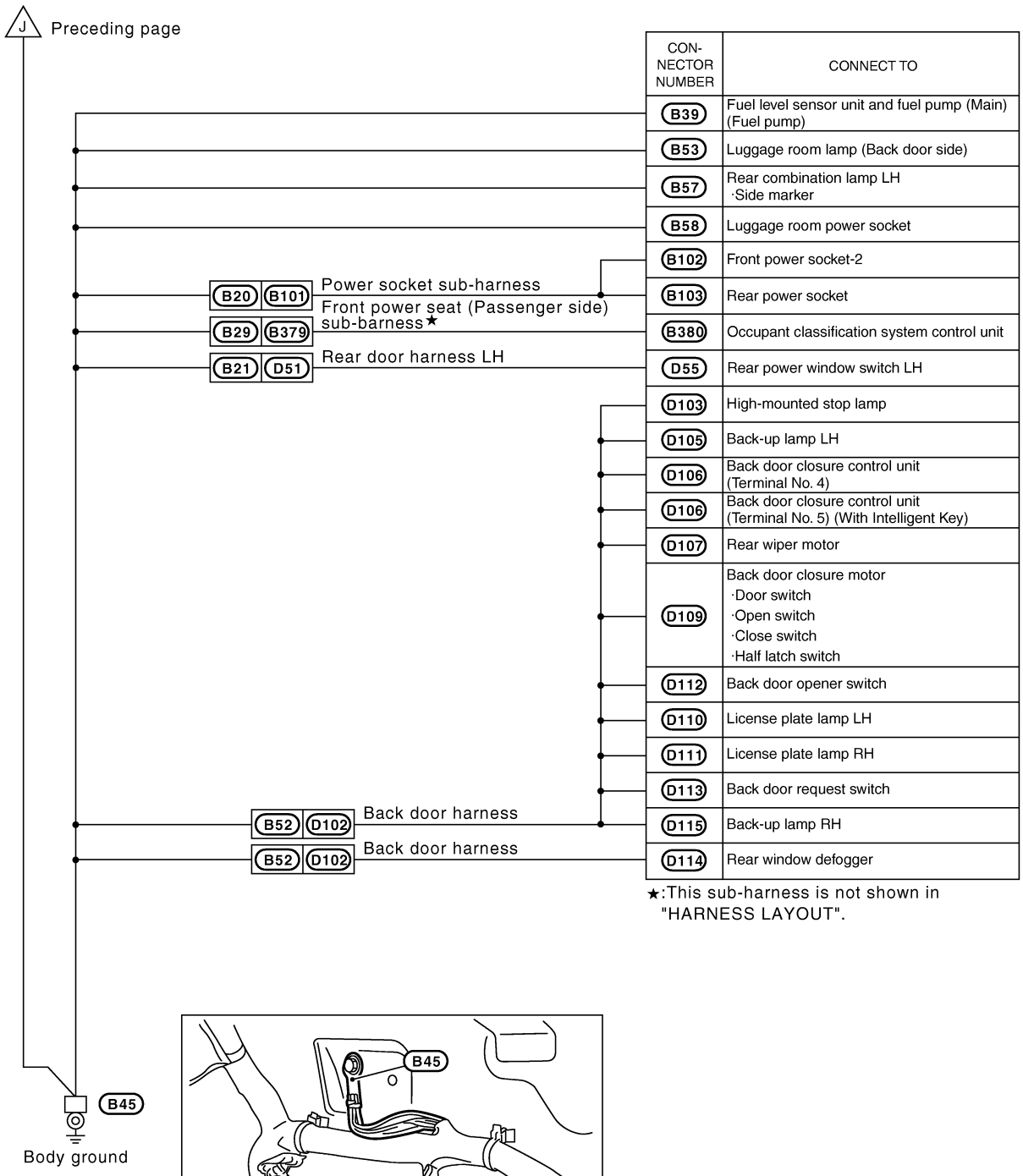
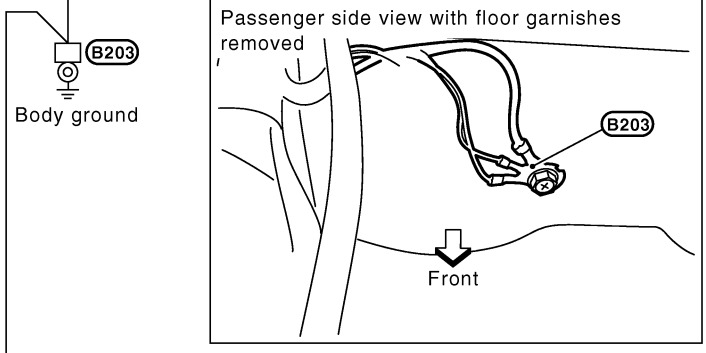

J
Preceding page
B20
B101
Power socket sub-harness
B29
B379
Front power seat (Passenger side) sub-barness★
B21
D51
Rear door harness LH
B52
D102
Back door harness
B52
D102
Back door harness
B45
Body ground
CON-NECTOR NUMBER
CONNECT TO
B39
Fuel level sensor unit and fuel pump (Main) (Fuel pump)
B53
Luggage room lamp (Back door side)
B57
Rear combination lamp LH ·Side marker
B58
Luggage room power socket
B102
Front power socket-2
B103
Rear power socket
B380
Occupant classification system control unit
D55
Rear power window switch LH
D103
High-mounted stop lamp
D105
Back-up lamp LH
D106
Back door closure control unit (Terminal No. 4)
D106
Back door closure control unit (Terminal No. 5) (With Intelligent Key)
D107
Rear wiper motor
D109
Back door closure motor ·Door switch ·Open switch ·Close switch ·Half latch switch
D112
Back door opener switch
D110
License plate lamp LH
D111
License plate lamp RH
D113
Back door request switch
D115
Back-up lamp RH
D114
Rear window defogger
★:This sub-harness is not shown in "HARNESS LAYOUT".
B45
View with luggage room side finisher LH removed

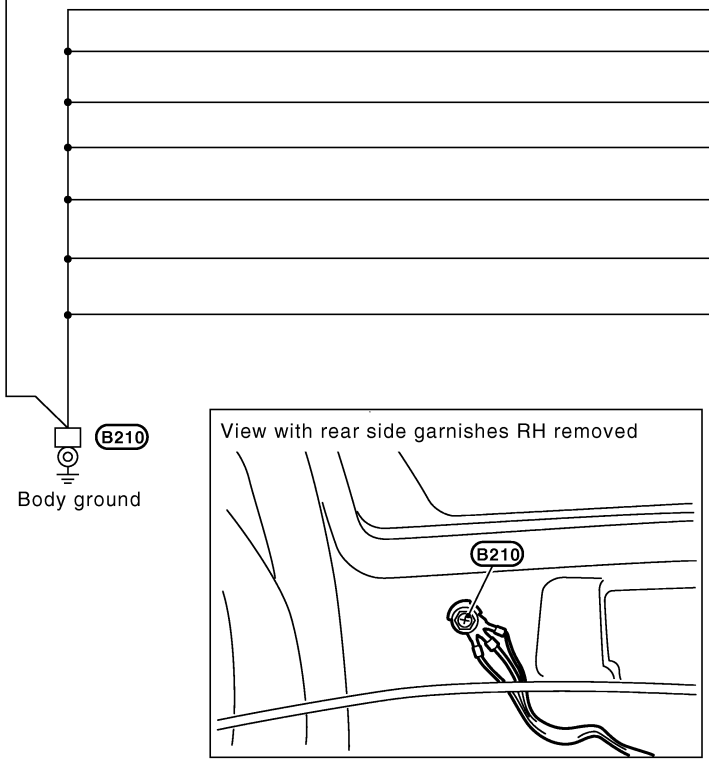
CKIM0644E

BODY NO. 2 HARNESS

CON-NECTOR NUMBER	CONNECT TO
B208	NAVI control unit (Terminal No. 1)
B208	NAVI control unit (Terminal No. 35)
B223	Shield wire (Woofer) (For circuit from terminal No. 1)

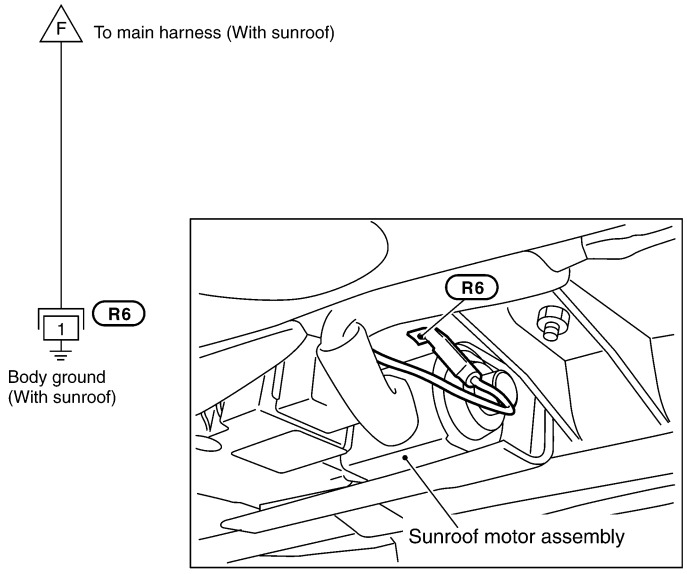


CON-NECTOR NUMBER	CONNECT TO
B211	Satellite radio tuner
B212	BOSE speaker amp.
B219	Rear combination lamp RH · Side marker
B223	Woofer
B223	Shield wire (Woofer) (For circuit from terminal No. 1)
B223	Shield wire (Woofer) (For circuit from terminal No. 7,8)
B224	Option connector-2 for satellite radio tuner



CKIM0645E

ROOM LAMP HARNESS



CKIM0211E

HARNESS

PFP:00011

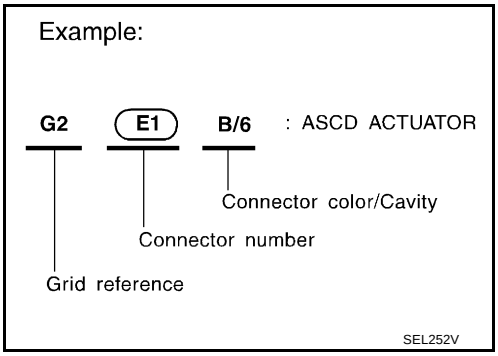
Harness Layout

NKS003GN

HOW TO READ HARNESS LAYOUT

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
- Body 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.

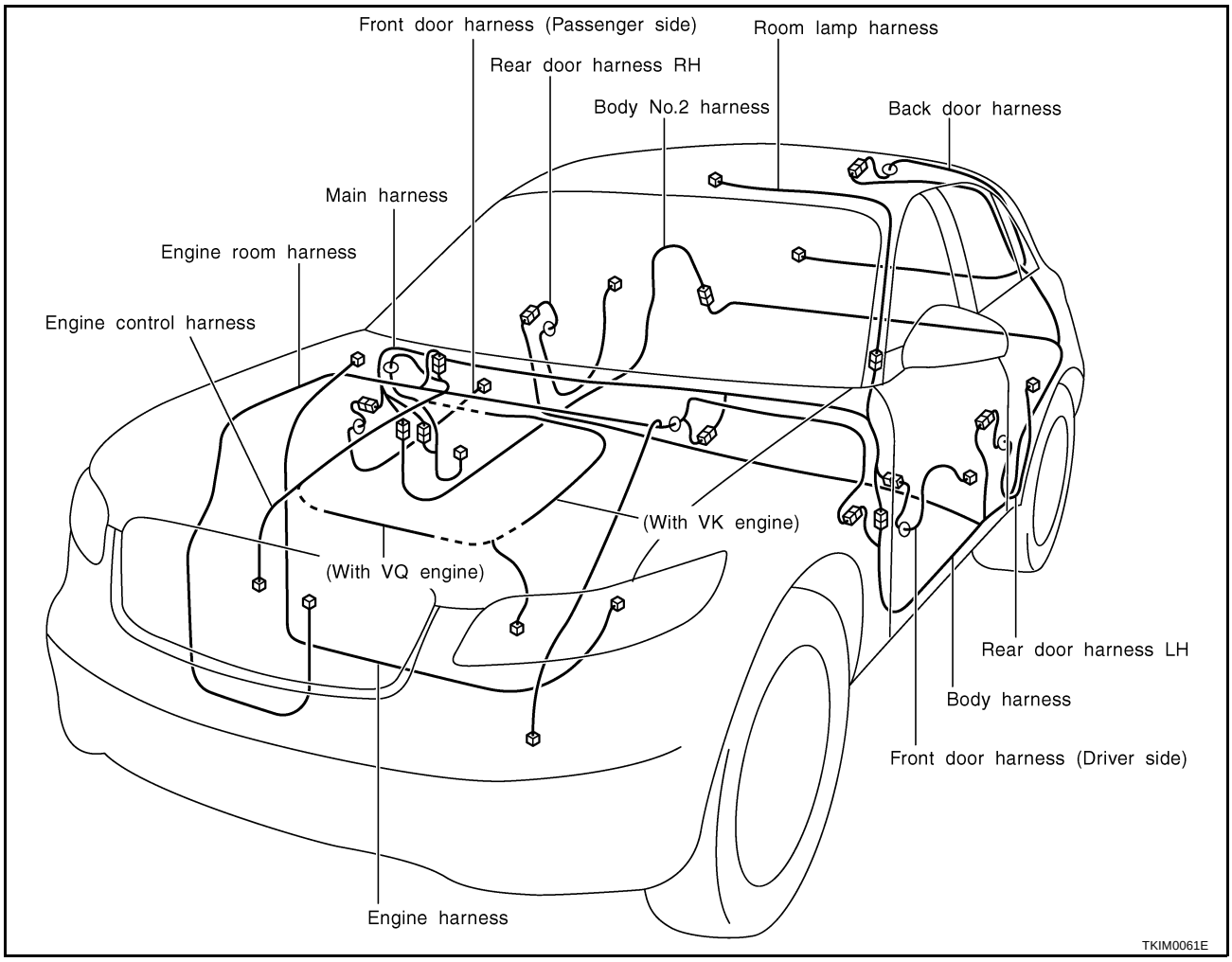
CONNECTOR SYMBOL

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

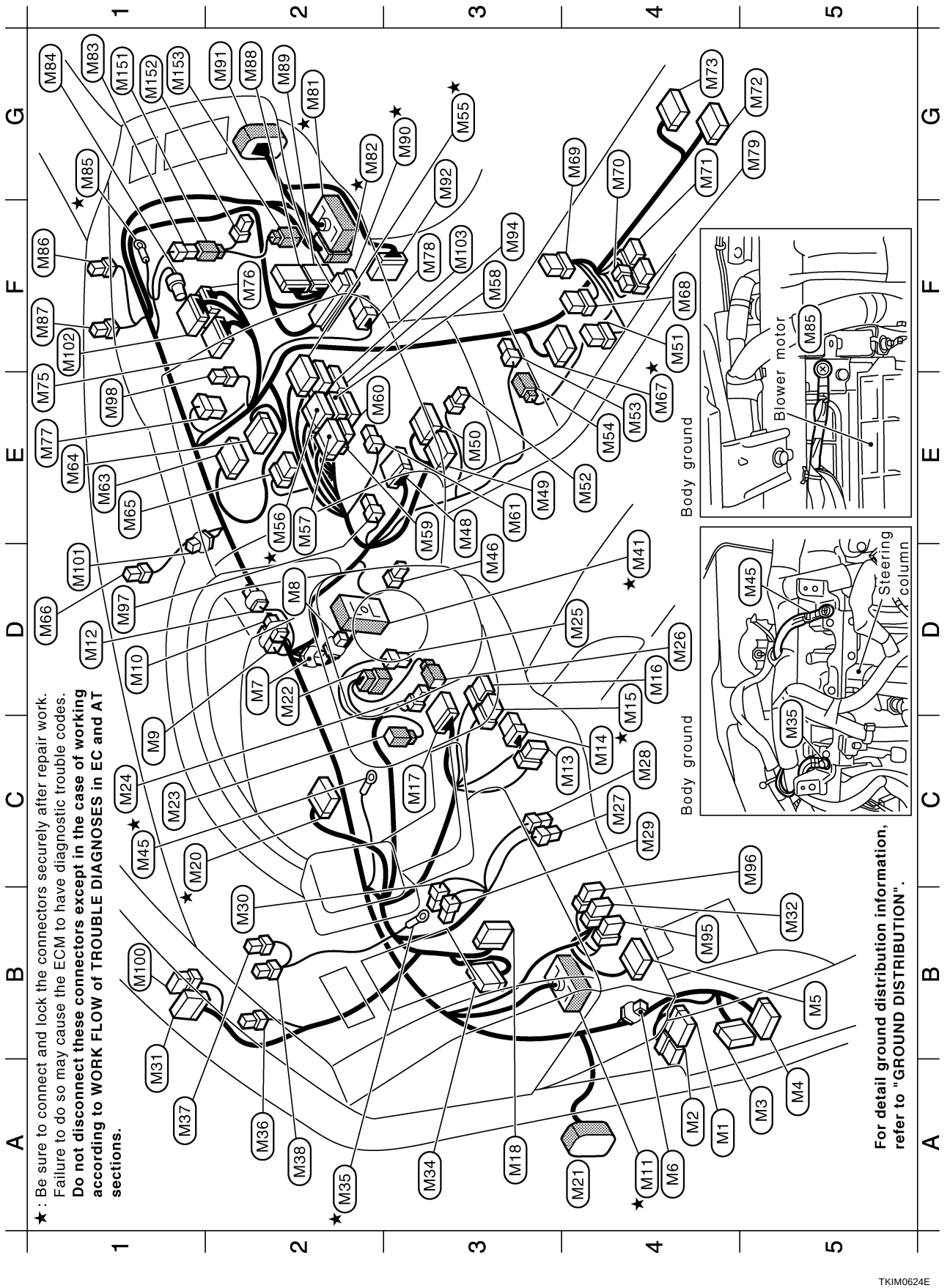
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
• Cavity: Less than 4 • Relay connector				
• Cavity: From 5 to 8				
• Cavity: More than 9				
• Ground terminal etc.	—			

CKIT0108E

OUTLINE


Front door harness (Passenger side)
Room lamp harness
Rear door harness RH
Body No.2 harness
Back door harness
Main harness
Engine room harness
Engine control harness
(With VK engine)
(With VQ engine)
Rear door harness LH
Body harness
Front door harness (Driver side)
Engine harness
TKIM0061E

MAIN HARNESS



A4	M1	W/16	:	Fuse block (J/B)
A4	M2	W/8	:	Fuse block (J/B)
A5	M3	W/40	:	BCM (Body control module)
A5	M4	B/15	:	BCM (Body control module)
B5	M5	W/16	:	Data link connector
A4	M6	W/2	:	Low tire pressure warning check switch
D2	M7	W/2	:	Diode
D2	M8	W/2	:	Diode
C1	M9	W/2	:	Diode
D1	M10	W/2	:	Diode
A4 ★	M11	SMJ	:	To B1
D1	M12	W/2	:	Diode
C4	M13	GY/6	:	ADP steering switch
C4	M14	W/8	:	Steering angle sensor
D4 ★	M15	GY/8	:	Combination switch (Spiral cable)
D4	M16	Y/6	:	Combination switch (Spiral cable)
C3	M17	W/16	:	Combination switch
A3	M18	BR/16	:	Door mirror remote control switch
C1 ★	M20	W/24	:	Combination meter
A4	M21	SMJ	:	To D1
D2	M22	GY/6	:	Key switch and ignition knob switch (With Intelligent Key)
C1	M23	BR/2	:	Key switch (Without Intelligent Key)
C1	M24	W/2	:	Ignition keyhole illumination
D4	M25	W/4	:	NATS antenna amp.
D4	M26	W/4	:	Steering lock unit
C4	M27	W/4	:	Tilt motor and telescopic motor
C4	M28	W/4	:	Tilt sensor and telescopic sensor
C4	M29	W/2	:	Circuit breaker
B2	M30	B/5	:	Passenger side select unlock relay
A1	M31	W/18	:	To R1
B5	M32	GY/6	:	VDC off switch
A3	M34	W/40	:	Intelligent Key unit
A2 ★	M35	—	:	Body ground
A2	M36	BR/2	:	Instrument speaker LH
A1	M37	W/3	:	Optical sensor
A2	M38	BR/2	:	Security indicator lamp
D4 ★	M41	SMJ	:	To E211
C1 ★	M45	—	:	Body ground
D3	M46	W/2	:	In-vehicle sensor
E3	M48	W/16	:	Rear view camera control unit
E3	M49	W/32	:	Automatic drive positioner control unit
E3	M50	W/16	:	Automatic drive positioner control unit
F4	M51	W/4	:	Hazard switch
E4	M52	W/4	:	Clock
E4	M53	W/3	:	Front power socket-1
E4	M54	BR/2	:	A/T device (Illumination)
G3 ★	M55	GY/20	:	Unified meter and A/C amp.
E2 ★	M56	GY/16	:	Unified meter and A/C amp.
E2	M57	W/24	:	Unified meter and A/C amp.
F3	M58	W/10	:	Audio unit
E3	M59	W/6	:	Audio unit
E2	M60	W/16	:	Audio unit
E3	M61	BR/2	:	Antenna amp.
E1	M63	W/24	:	Display
E1	M64	W/16	:	A/C and AV switch
E1	M65	BR/8	:	Audio unit
D1	M66	BR/2	:	Instrument speaker center
E4 ★	M67	W/10	:	A/T device
F4	M68	W/6	:	Heated seat switch (Driver side)
G4	M69	BR/6	:	Heated seat switch (Passenger side)
G4	M70	W/2	:	Inside key antenna-1 (Dashboard)
G4	M71	B/6	:	Yaw rate / Side / Decel G sensor (AWD models)
G5	M72	Y/28	:	Air bag diagnosis sensor unit
G4	M73	—/16	:	DVD player
E1	M75	W/24	:	Display control unit
F2	M76	W/32	:	Display control unit
E1	M77	W/6	:	Heater and cooling unit (Via sub-harness)
F3	M78	W/6	:	Blower motor
G5	M79	B/6	:	Yaw rate / Side G sensor (2WD models)
G2 ★	M81	SMJ	:	To B201
G2 ★	M82	SMJ	:	To F102

★ : 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.**

TKIM0625E

G1 (M83) W/4 : To (M151)
G1 (M84) Y/4 : Front passenger air bag module
G1 ★ (M85) — : Body ground
F1 (M86) BR/2 : Instrument speaker RH
F1 (M87) B/2 : Sunload sensor
G2 (M88) W/24 : ICC unit
G2 (M89) GY/24 : ICC unit
G3 ★ (M90) SMJ : ECM
G2 (M91) SMJ : To (D31)
G3 (M92) W/16 : AWD control unit
F3 (M94) W/12 : Option connector-1 for audio unit (Without satellite radio)
B4 (M95) W/8 : Snow mode switch
C5 (M96) GY/8 : LDW switch
D1 (M97) BR/4 : LDW chime
E1 (M98) W/4 : Remote keyless entry receiver
B1 (M100) W/8 : To (R10)
D1 (M101) –/2 : Resistor
F1 (M102) W/32 : TEL adapter unit
F3 (M103) W/12 : Audio unit (With satellite radio)

Glove box lamp sub-harness

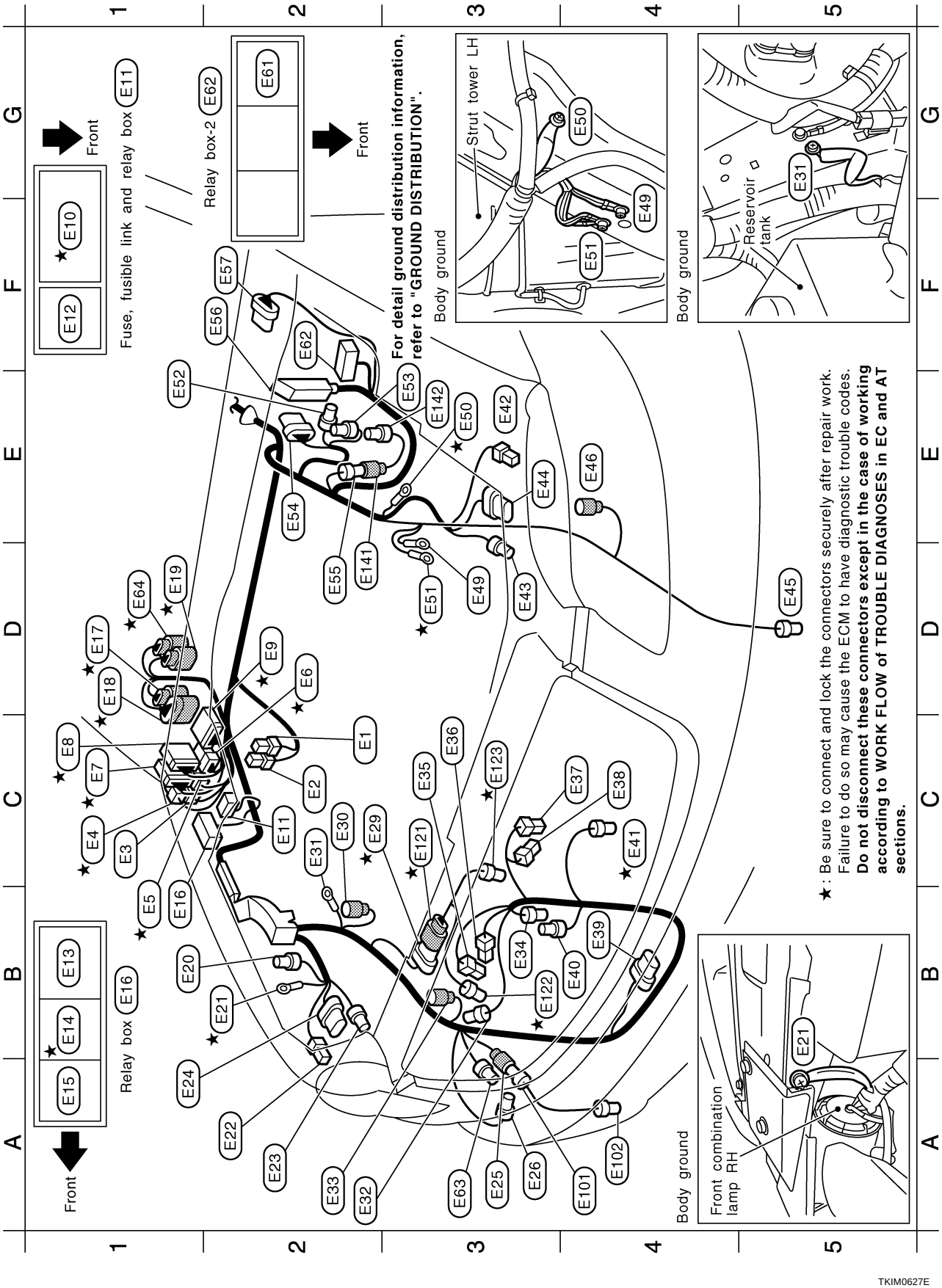
G1 (M151) W/4 : To (M83)
G1 (M152) W/2 : Glove box lamp
G1 (M153) W/2 : Inside key antenna-2 (Dashboard)

★: 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.**

TKIM0626E

ENGINE ROOM HARNESS

Engine Compartment



TKIM0627E

Engine room harness

C2	E1	B/2	:	Fusible link holder
C2	E2	GY/2	:	Fusible link holder
C1	E3	B/2	:	IPDM E/R (Intelligent power distribution module engine room)
C1 ★	E4	W/4	:	IPDM E/R (Intelligent power distribution module engine room)
B1 ★	E5	B/4	:	IPDM E/R (Intelligent power distribution module engine room)
D2 ★	E6	W/6	:	IPDM E/R (Intelligent power distribution module engine room)
C1 ★	E7	GY/16	:	IPDM E/R (Intelligent power distribution module engine room)
C1 ★	E8	W/12	:	IPDM E/R (Intelligent power distribution module engine room)
D2 ★	E9	W/16	:	IPDM E/R (Intelligent power distribution module engine room)
F1 ★	E10	—	:	Fuse and fusible link block
C2	E11	—	:	Fuse, fusible link and relay box
F1	E12	L/4	:	Accessory relay-2
B1	E13	BR/6	:	Rear window defogger relay
B1 ★	E14	GY/6	:	ICC brake hold relay
A1	E15	L/4	:	Daytime light relay
B1	E16	—	:	Relay box
D1 ★	E17	GY/6	:	To F47 (With VK engine)
D1 ★	E18	GY/9	:	To F48 (With VQ engine)
D1 ★	E19	B/8	:	To F49 (With VK engine)
B1	E20	GY/2	:	Hood switch
B2 ★	E21	—	:	Body ground
A2	E22	B/2	:	Front side marker lamp RH
A2	E23	GY/3	:	Parking lamp RH
A1	E24	B/8	:	Front combination lamp RH
A3	E25	B/2	:	To E101
A3	E26	BR/2	:	Washer level sensor
C2 ★	E29	B/8	:	To E121 (With VQ engine)
C2	E30	GY/1	:	To E303
C2	E31	—	:	Body ground
A2	E32	B/3	:	Refrigerant pressure sensor
A2	E33	GY/2	:	Front wheel sensor RH
B3	E34	B/2	:	Ambient sensor
C3	E35	B/1	:	Horn low
C3	E36	B/1	:	Horn low
C4	E37	B/1	:	Horn high
C4	E38	B/1	:	Horn high
B4	E39	GY/6	:	ICC sensor
B4	E40	Y/2	:	Crash zone sensor
C4 ★	E41	GY/4	:	Cooling fan motor (With VK engine)
E3	E42	B/2	:	Front side marker lamp LH
D3	E43	GY/3	:	Parking lamp LH
E3	E44	B/8	:	Front combination lamp LH
D5	E45	–/2	:	Front fog lamp LH
E4	E46	GY/2	:	Front wheel sensor LH
D3	E49	—	:	Body ground
E3 ★	E50	—	:	Body ground
D3 ★	E51	—	:	Body ground
E1	E52	GY/2	:	Brake fluid level switch
E3	E53	B/3	:	Pressure sensor
E2	E54	GY/6	:	Brake booster
D2	E55	BR/3	:	To E141
F2	E56	SMJ	:	ABS actuator and electric unit (Control unit)
F2	E57	GY/5	:	Front wiper motor
G2	E61	L/4	:	Back-up lamp relay
F2	E62	—	:	Relay box-2
A3	E63	GY/2	:	Front and rear washer pump
D1 ★	E64	GY/6	:	To F65 (With VQ engine)

Front fog lamp RH sub-harness

A4	E101	B/2	:	To E25
A4	E102	–/2	:	Front fog lamp RH

Cooling fan sub-harness (With VQ engine)

C3 ★	E121	DGY/8	:	To E29
B3 ★	E122	GY/4	:	Cooling fan motor-1
C3 ★	E123	GY/4	:	Cooling fan motor-2

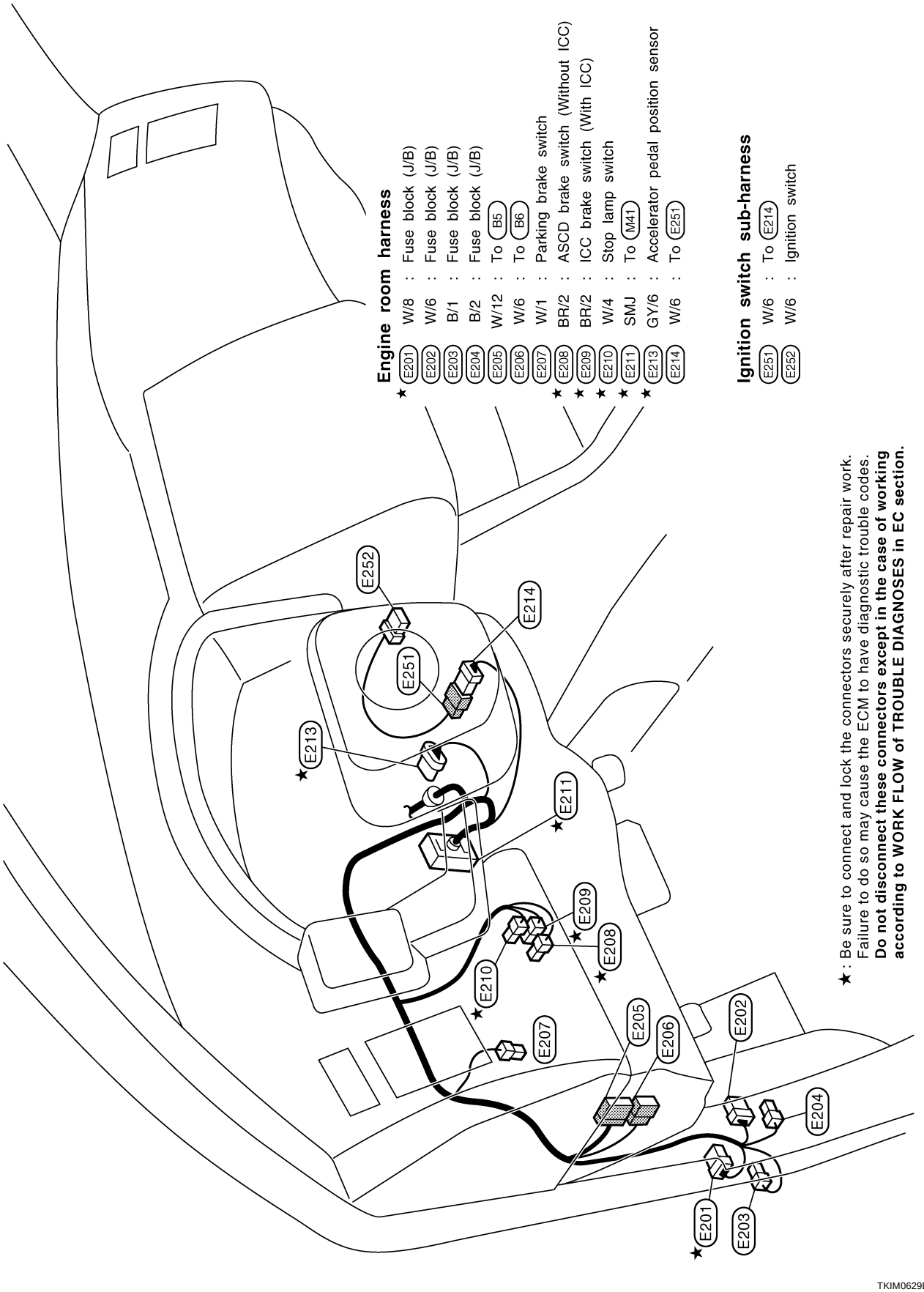
ICC sub-harness

D2	E141	BR/3	:	To E55
E3	E142	B/3	:	Brake pressure sensor

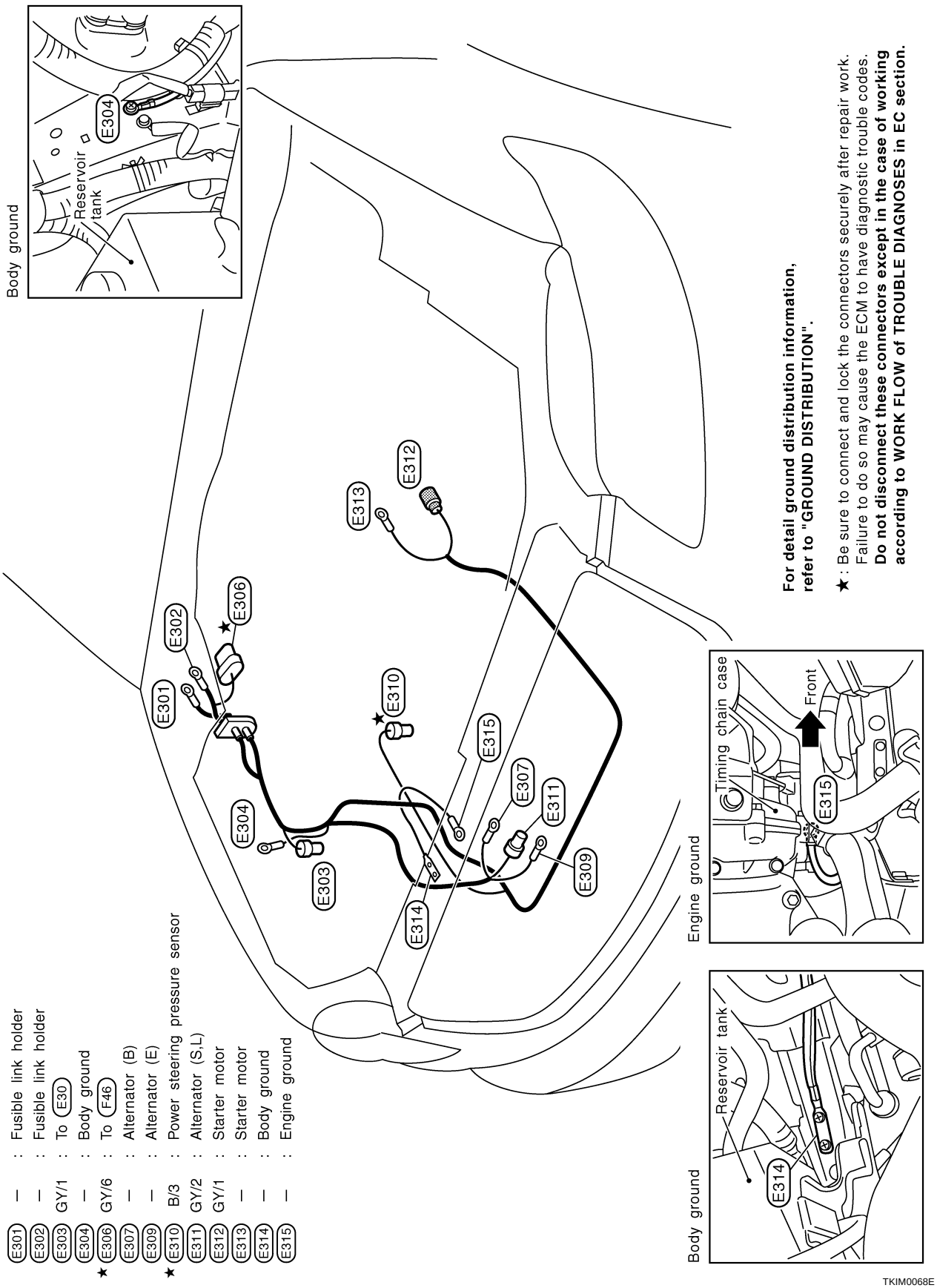
★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. **Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**

TKIM0628E

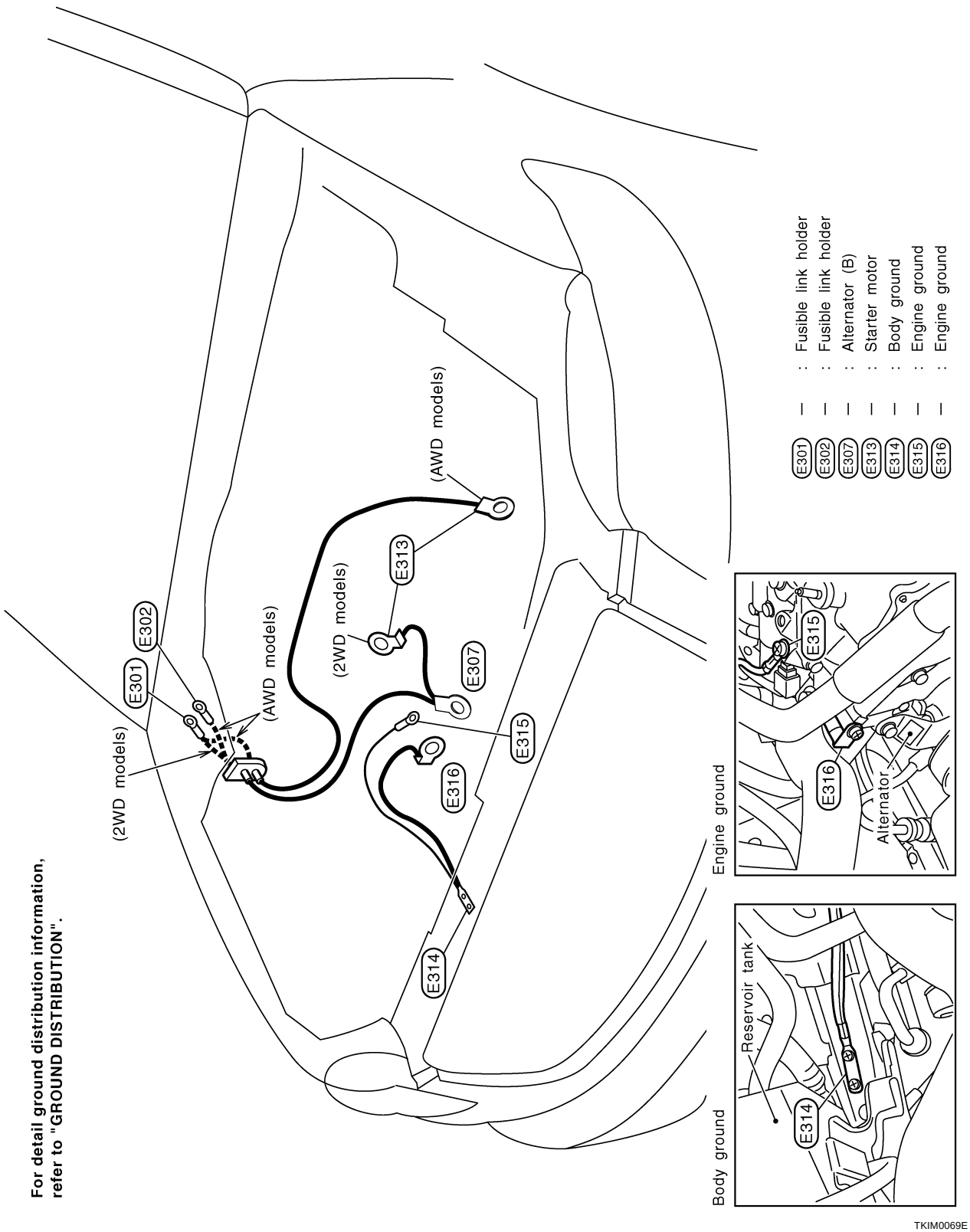
Passenger Compartment



ENGINE HARNESS/VK ENGINE MODELS

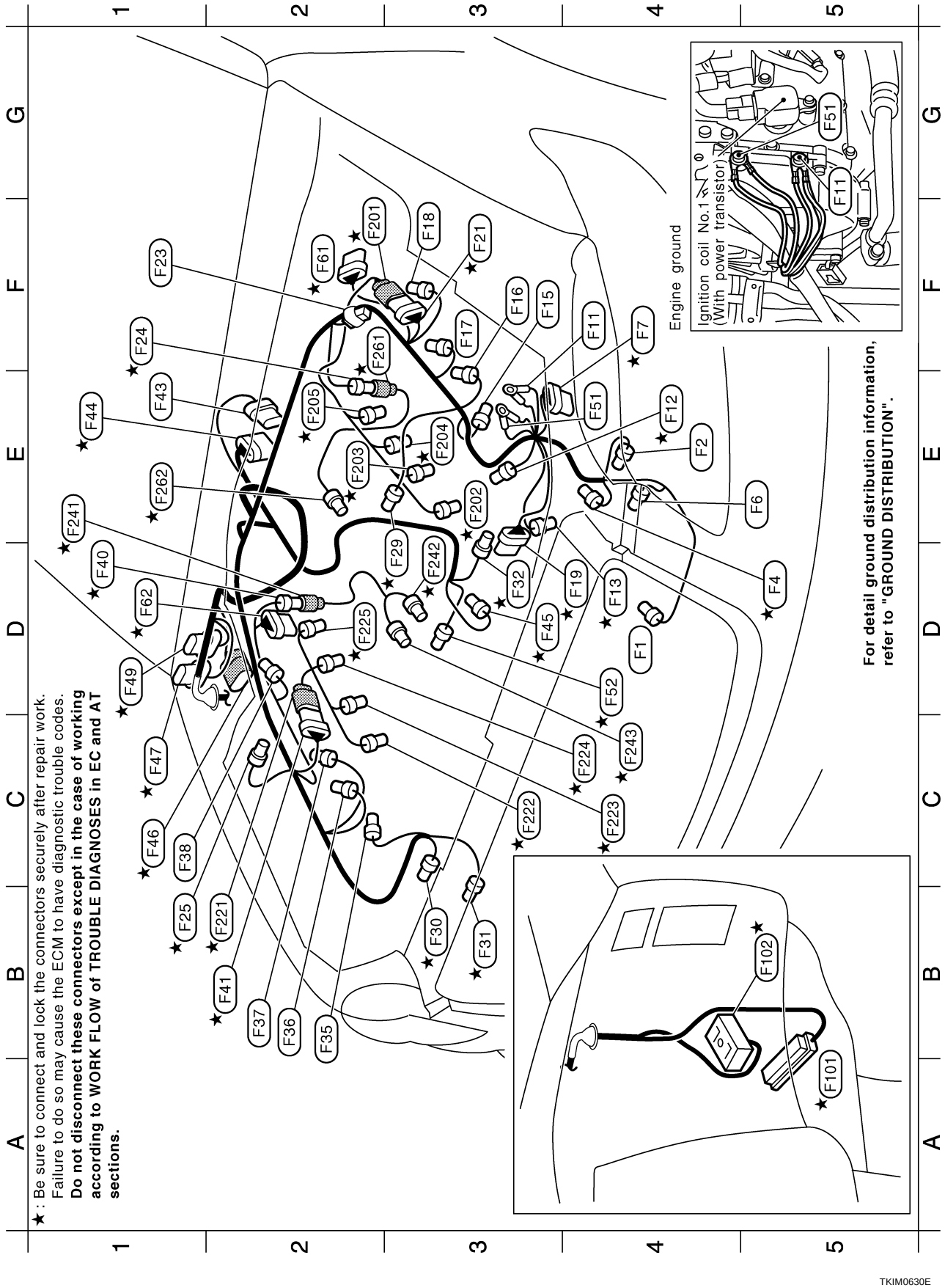


ENGINE HARNESS/VQ ENGINE MODELS



TKIM0069E

ENGINE CONTROL HARNESS/VK ENGINE MODELS



TKIM0630E

Engine control harness

D4	F1	GY/1	:	Oil pressure switch
E4	F2	B/1	:	Compressor (Magnet clutch)
D5 ★	F4	B/3	:	Camshaft position sensor (PHASE)
E5	F6	B/2	:	Compressor (ECV solenoid valve)
F4 ★	F7	B/6	:	Mass air flow sensor
F4	F11	—	:	Engine ground
E4 ★	F12	B/3	:	Intake valve timing control position sensor (Bank 1)
D4 ★	F13	LGY/2	:	Intake valve timing control solenoid valve (Bank 1)
F3	F15	GY/3	:	Ignition coil No.1 (With power transistor)
F3	F16	GY/3	:	Ignition coil No.3 (With power transistor)
F3	F17	GY/3	:	Ignition coil No.5 (With power transistor)
F3	F18	GY/3	:	Ignition coil No.7 (With power transistor)
D4 ★	F19	B/6	:	Electric throttle control actuator
F3 ★	F21	DGY/6	:	To F201
F1	F23	W/2	:	Condenser
F1 ★	F24	B/2	:	To F261
B1 ★	F25	LGY/2	:	EVAP canister purge volume control solenoid valve
D3 ★	F29	B/2	:	VIAS control solenoid valve
B3 ★	F30	B/3	:	Intake valve timing control position sensor (Bank 2)
B3 ★	F31	LGY/2	:	Intake valve timing control solenoid valve (Bank 2)
D3 ★	F32	G/4	:	Heated oxygen sensor 2 (Bank 1)
B2	F35	GY/3	:	Ignition coil No.2 (With power transistor)
B2	F36	GY/3	:	Ignition coil No.4 (With power transistor)
B2	F37	GY/3	:	Ignition coil No.6 (With power transistor)
C1	F38	GY/3	:	Ignition coil No.8 (With power transistor)
D1 ★	F40	B/4	:	To F241
B2 ★	F41	DGY/6	:	To F221
E1	F43	B/8	:	Transfer assembly
E1 ★	F44	DGY/10	:	A/T assembly
D3 ★	F45	B/3	:	Crankshaft position sensor (POS)
C1 ★	F46	GY/6	:	To E306
C1 ★	F47	GY/6	:	To E17
D1 ★	F49	B/8	:	To E19
E4	F51	—	:	Engine ground
D4 ★	F52	L/4	:	Heated oxygen sensor 2 (Bank 2)
F2 ★	F61	—/6	:	Air fuel ratio (A/F) sensor 1 (Bank 1)
D1 ★	F62	—/6	:	Air fuel ratio (A/F) sensor 1 (Bank 2)
A5 ★	F101	SMJ	:	ECM
B5 ★	F102	SMJ	:	To M82

Engine control sub-harness-1

F2 ★	F201	G/6	:	To F21
E3 ★	F202	GY/2	:	Fuel injector No.1
E2 ★	F203	GY/2	:	Fuel injector No.3
E3 ★	F204	GY/2	:	Fuel injector No.5
E2 ★	F205	GY/2	:	Fuel injector No.7

Engine control sub-harness-2

B2 ★	F221	G/6	:	To F41
C3 ★	F222	GY/2	:	Fuel injector No.2
C4 ★	F223	GY/2	:	Fuel injector No.4
C4 ★	F224	GY/2	:	Fuel injector No.6
D2 ★	F225	GY/2	:	Fuel injector No.8

Engine control sub-harness-3

E1 ★	F241	B/4	:	To F40
D3 ★	F242	L/2	:	Knock sensor (Bank 1)
C4 ★	F243	L/2	:	Knock sensor (Bank 2)

Engine control sub-harness-4

F2 ★	F261	SB/2	:	To F24
E1 ★	F262	GY/2	:	Engine coolant temperature sensor

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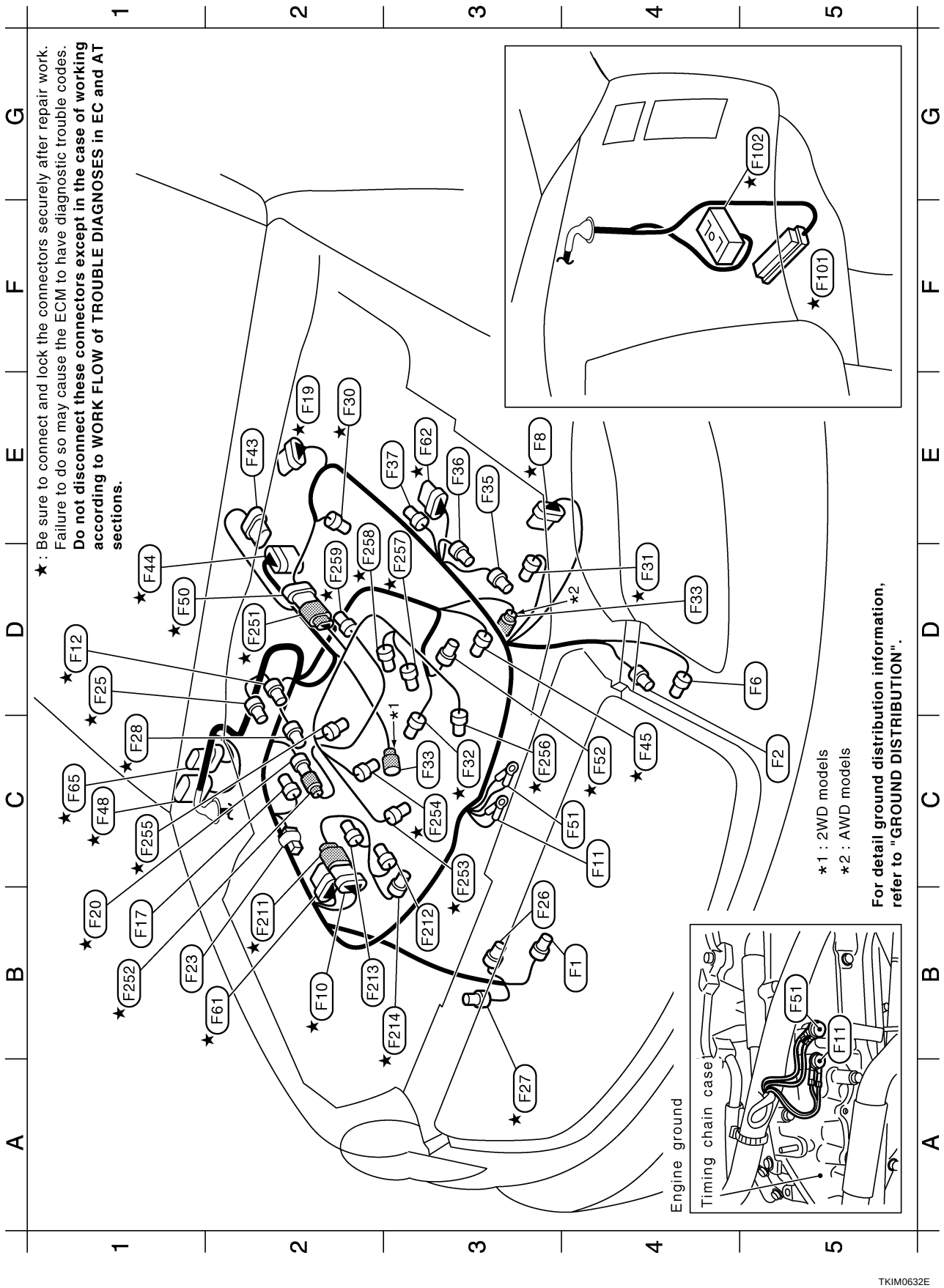
TKIM0631E

ENGINE CONTROL HARNESS/VQ ENGINE MODELS



TKIM0632E

Engine control harness

B4	F1	GY/1	:	Oil pressure switch
C5	F2	B/1	:	Compressor (Magnet clutch)
D5	F6	B/2	:	Compressor (ECV solenoid valve)
E3 ★	F8	B/6	:	Mass air flow sensor
B2 ★	F10	B/6	:	To F211
C4	F11	—	:	Engine ground
D1 ★	F12	GY/3	:	Camshaft position sensor (PHASE) (Bank 1)
B1	F17	GY/3	:	Ignition coil No.5 (With power transistor)
E2 ★	F19	DGY/6	:	Electric throttle control actuator
B1 ★	F20	B/2	:	To F252
B1	F23	W/2	:	Condenser
D1 ★	F25	LGY/2	:	EVAP canister purge volume control solenoid valve
B3	F26	GY/2	:	Alternator
A3 ★	F27	B/3	:	Power steering pressure sensor
C1 ★	F28	GY/2	:	Engine coolant temperature sensor
E2 ★	F30	B/3	:	Camshaft position sensor (PHASE) (Bank 2)
D4 ★	F31	LGY/2	:	Intake valve timing control solenoid valve (Bank 2)
C3 ★	F32	B/4	:	Heated oxygen sensor 2 (Bank 1)
C3,D4	F33	GY/1	:	Starter motor
E3	F35	GY/3	:	Ignition coil No.2 (With power transistor)
E3	F36	GY/3	:	Ignition coil No.4 (With power transistor)
E3	F37	GY/3	:	Ignition coil No.6 (With power transistor)
E2	F43	B/8	:	Transfer assembly
D1 ★	F44	DGY/10	:	A/T assembly
C4 ★	F45	B/3	:	Crankshaft position sensor (POS)
C1 ★	F48	GY/9	:	To E18
D1 ★	F50	G/8	:	To F251
C4	F51	—	:	Engine ground
C4 ★	F52	B/4	:	Heated oxygen sensor 2 (Bank 2)
B2 ★	F61	B/6	:	Air fuel ratio (A/F) sensor 1 (Bank 1)
E3 ★	F62	B/6	:	Air fuel ratio (A/F) sensor 1 (Bank 2)
C1 ★	F65	GY/6	:	To E64
F5 ★	F101	SMJ	:	ECM
G5 ★	F102	SMJ	:	To M82

Engine control sub-harness-1

B2 ★	F211	L/6	:	To F10
B3	F212	GY/3	:	Ignition coil No.1 (With power transistor)
B2	F213	GY/3	:	Ignition coil No.3 (With power transistor)
B3 ★	F214	G/2	:	Intake valve timing control solenoid valve (Bank 1)

Engine control sub-harness-2

D2 ★	F251	G/8	:	To F50
B1 ★	F252	SB/2	:	To F20
C3 ★	F253	GY/2	:	Fuel injector No.1
C3 ★	F254	GY/2	:	Fuel injector No.3
C1 ★	F255	GY/2	:	Fuel injector No.5
C3 ★	F256	GY/2	:	Fuel injector No.2
D3 ★	F257	GY/2	:	Fuel injector No.4
D2 ★	F258	GY/2	:	Fuel injector No.6
D2 ★	F259	L/2	:	Knock sensor

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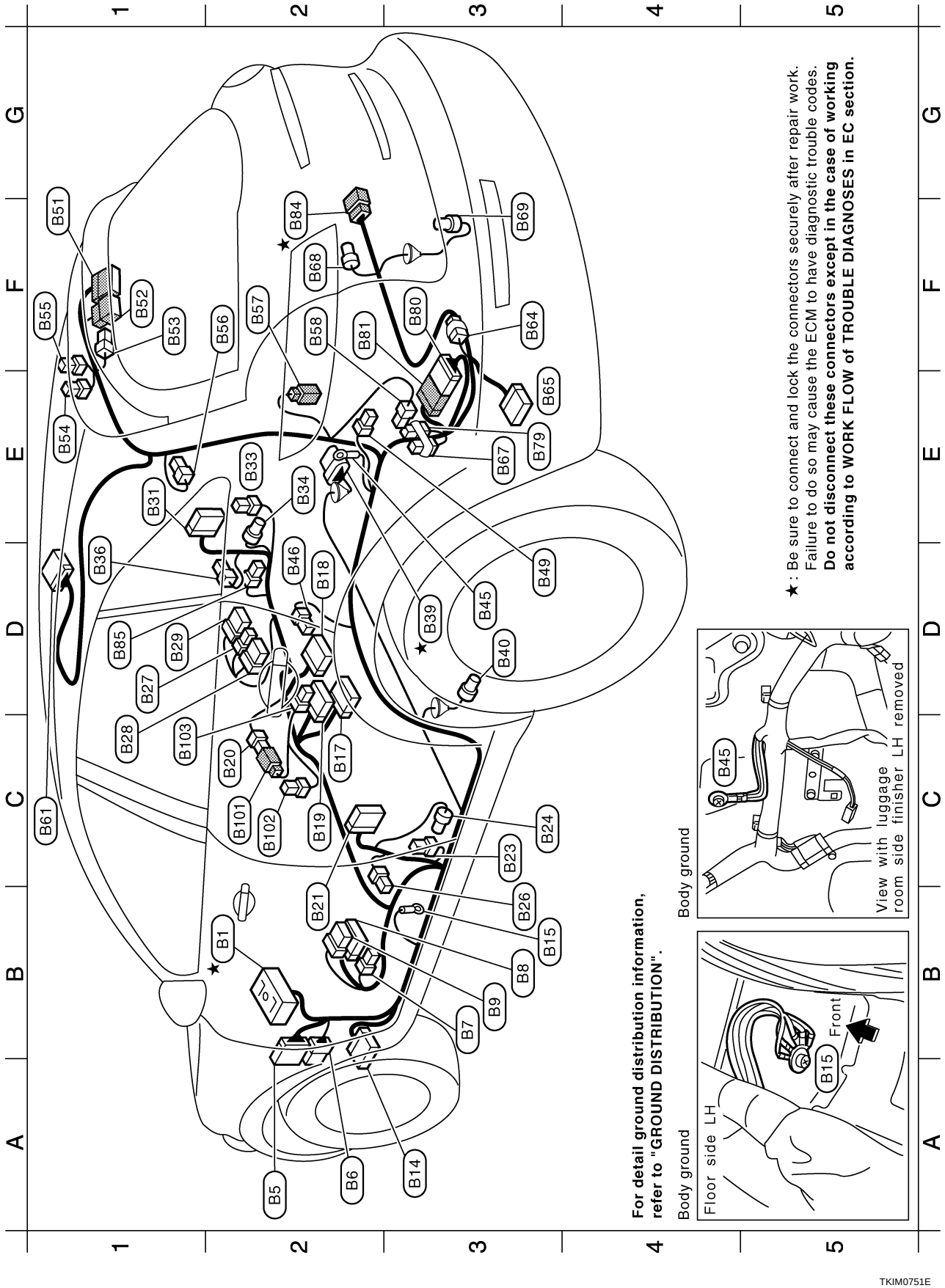
TKIM0750E

BODY HARNESS



TKIM0751E

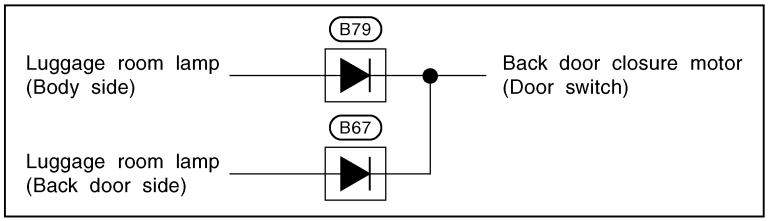
Body harness

B2 ★	B1	SMJ	:	To M11
A2	B5	W/12	:	To E205
A2	B6	W/6	:	To E206
B3	B7	Y/2	:	Front LH side air bag module
B3	B8	W/18	:	Front power seat (Driver side)
B3	B9	W/8	:	Front power seat (Driver side)
A3	B14	W/15	:	BCM (Body control module)
B3	B15	—	:	Body ground
C2	B17	Y/12	:	Air bag diagnosis sensor unit
D2	B18	Y/12	:	Air bag diagnosis sensor unit
C2	B19	—/16	:	DVD player
C2	B20	W/3	:	To B101
B2	B21	W/18	:	To D51
C3	B23	Y/2	:	Front LH seat belt pre-tensioner
C3	B24	Y/2	:	LH side air bag (Satellite) sensor
B3	B26	W/3	:	Front door switch (Driver side)
D1	B27	Y/2	:	Front RH side air bag module
C1	B28	W/6	:	Front power seat (Passenger side)
D1	B29	W/8	:	Front power seat (Passenger side)
E1	B31	W/18	:	To D71
E2	B33	Y/2	:	Front RH seat belt pre-tensioner
E2	B34	Y/2	:	RH side air bag (Satellite) sensor
D1	B36	W/3	:	Front door switch (Passenger side)
D3 ★	B39	GY/5	:	Fuel level sensor unit and fuel pump (Main)
D3	B40	GY/2	:	Fuel level sensor unit (Sub)
D3	B45	—	:	Body ground
D2	B46	W/3	:	Rear door switch LH
D3	B49	W/3	:	Luggage room lamp (Body side)
F1	B51	W/16	:	To D101
F1	B52	W/6	:	To D102
F1	B53	W/3	:	Luggage room lamp (Back door side)
E1	B54	OR/2	:	LH side curtain air bag module
F1	B55	Y/2	:	RH side curtain air bag module
F2	B56	BR/2	:	Tweeter LH
F2	B57	W/4	:	Rear combination lamp LH
F2	B58	B/2	:	Luggage room power socket
C1	B61	—/16	:	DVD display
F3	B64	GY/1	:	Not used
E3	B65	W/12	:	Rear combination lamp control unit
E3	B67	W/2	:	Diode
F2	B68	GY/2	:	Inside key antenna-3 (Luggage room)
F3	B69	SB/4	:	Rear wheel sensor
E3	B79	W/2	:	Diode
F3	B80	W/12	:	To B81
F2	B81	W/12	:	To B80
F2 ★	B84	GY/6	:	To B216
D1	B85	W/4	:	To B217

Power socket sub-harness

C2	B101	W/3	:	To B20
C2	B102	B/2	:	Front power socket-2
C1	B103	B/2	:	Rear power socket

Diode B67 , B79



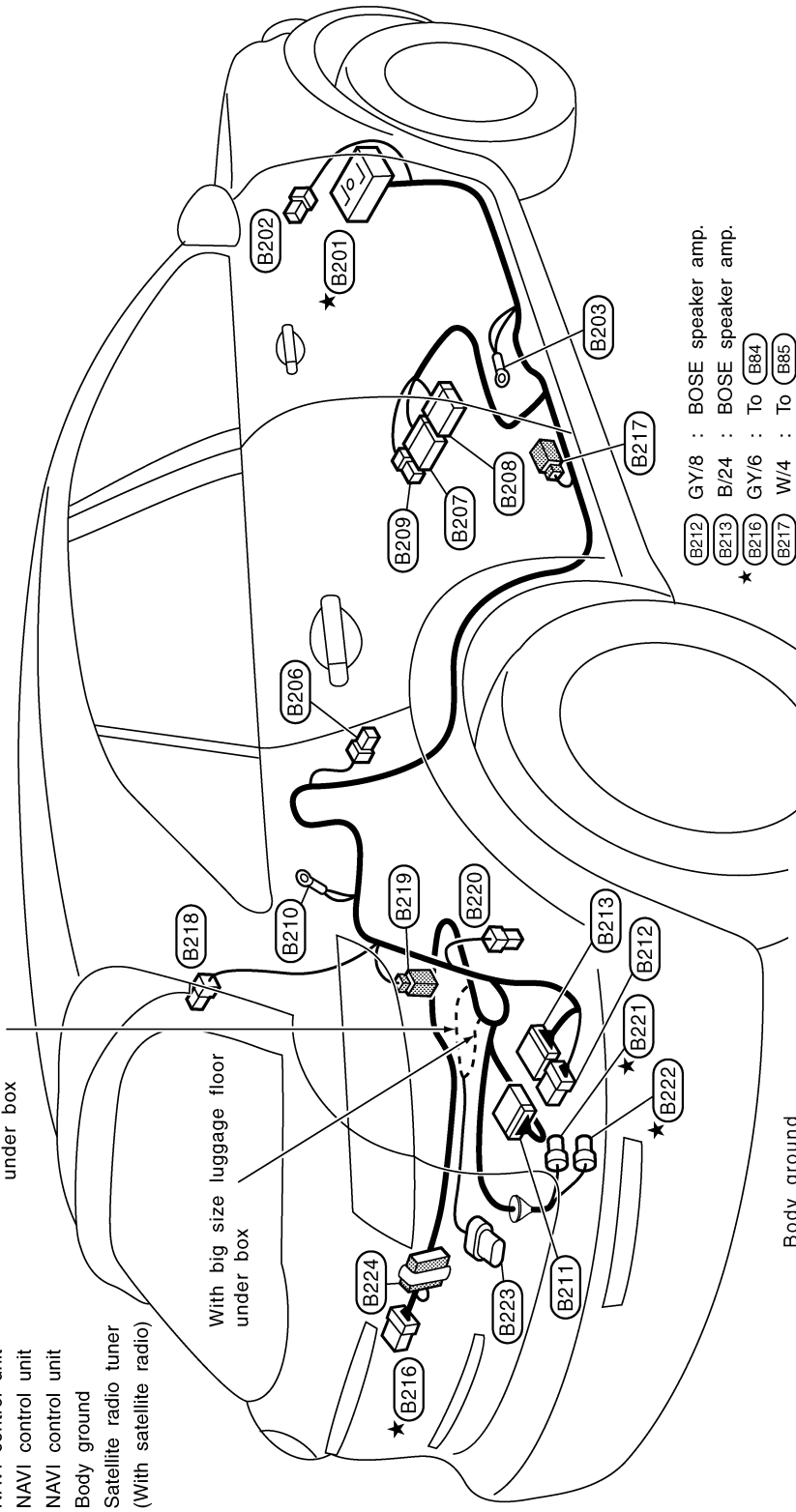
★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. **Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC section.**

TKIM0752E

BODY NO. 2 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 section.**

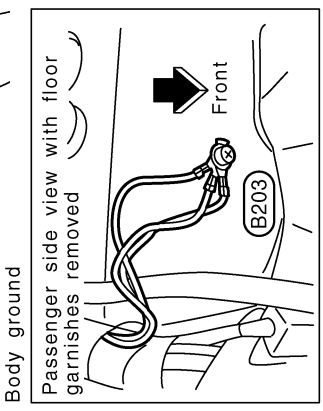
★ (B201) SMJ : To (M81)
(B202) GY/1 : GPS antenna
(B203) — : Body ground
(B206) W/3 : Rear door switch RH
(B207) W/32 : NAVI control unit
(B208) W/40 : NAVI control unit
(B209) GY/1 : NAVI control unit
(B210) — : Body ground
(B211) W/16 : Satellite radio tuner (With satellite radio)



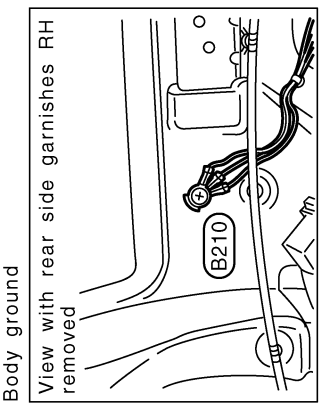
★ (B212) GY/8 : BOSE speaker amp.
(B213) B/24 : BOSE speaker amp.
★ (B216) GY/6 : To (B84)
(B217) W/4 : To (B85)
(B218) BR/2 : Tweeter RH
(B219) W/4 : Rear combination lamp RH
(B220) W/4 : Fuel lid lock actuator
★ (B221) B/2 : EVAP canister vent control valve
★ (B222) GY/3 : EVAP control system pressure sensor
(B223) B/8 : Woofer
(B224) W/12 : Option connector-2 for satellite radio tuner (Without satellite radio)

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

Body ground

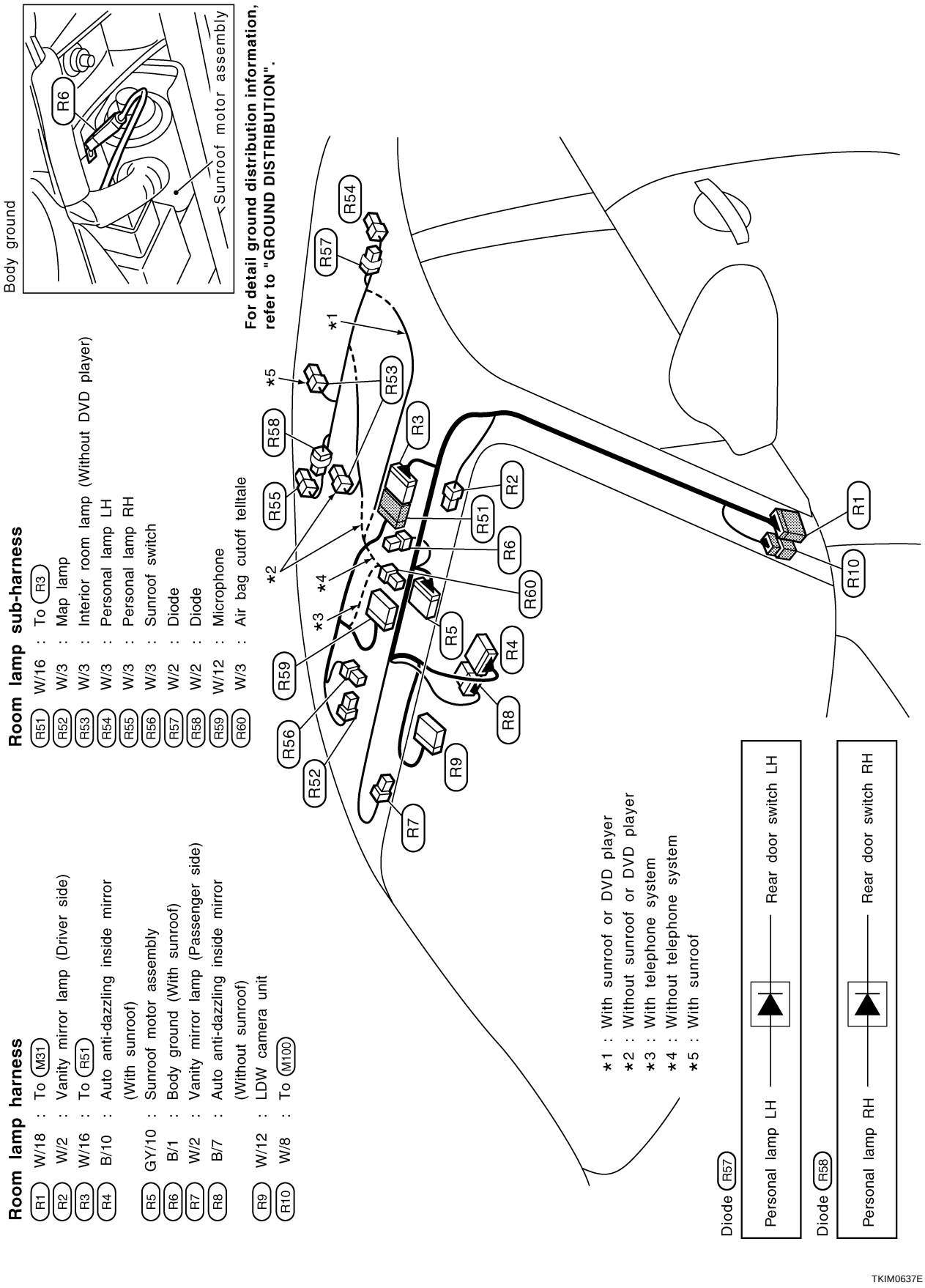


Body ground



TKIM0636E

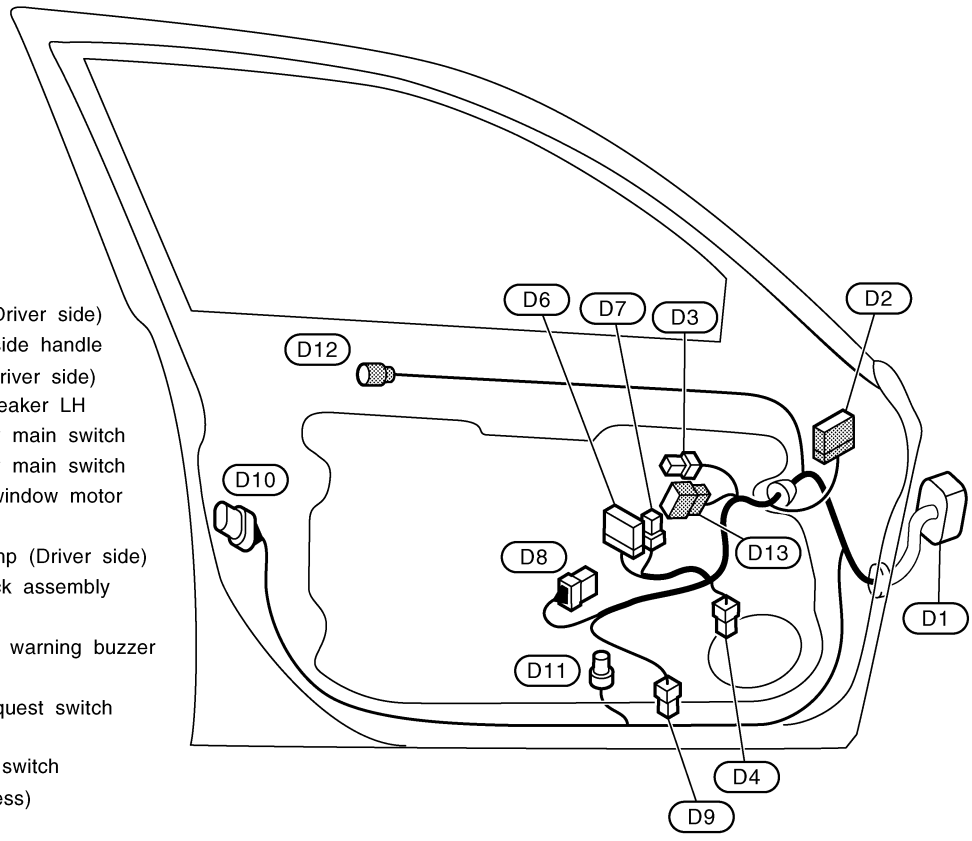
ROOM LAMP HARNESS



TKIM0637E

FRONT DOOR HARNESS

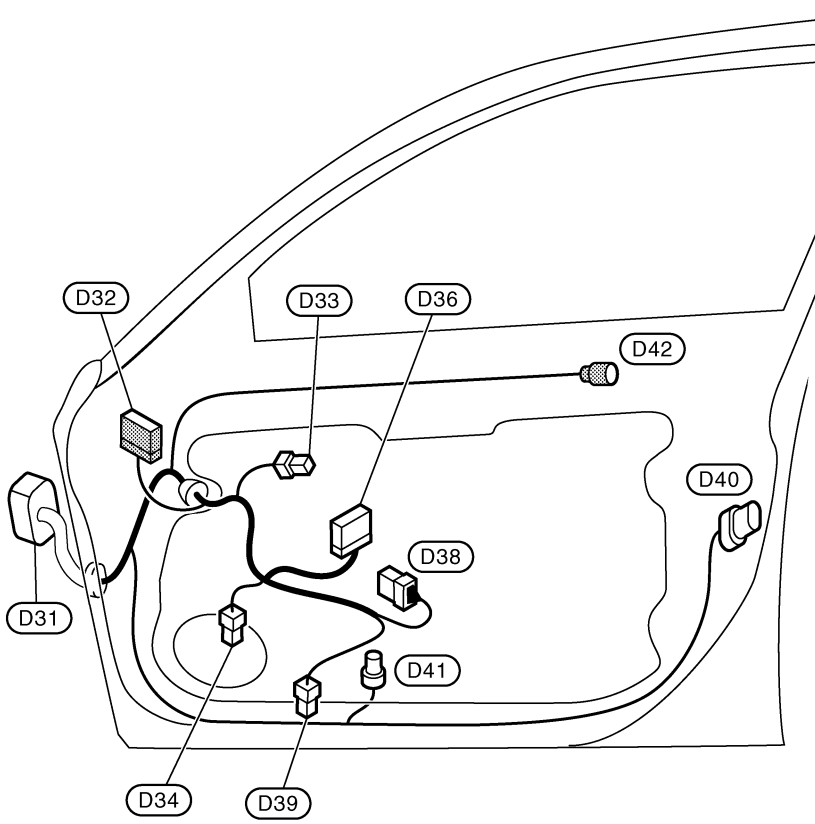
LH Side



TKIM0638E

D1	SMJ	:	To M21
D2	W/16	:	Door mirror (Driver side)
D3	GY/2	:	Front door inside handle illumination (Driver side)
D4	BR/2	:	Front door speaker LH
D6	W/16	:	Power window main switch
D7	W/3	:	Power window main switch
D8	W/6	:	Front power window motor (Driver side)
D9	W/2	:	Front step lamp (Driver side)
D10	B/6	:	Front door lock assembly (Driver side)
D11	BR/2	:	Intelligent Key warning buzzer (Driver side)
D12	GY/2	:	Front door request switch (Driver side)
D13	W/8	:	Seat memory switch (Via sub-harness)

RH Side

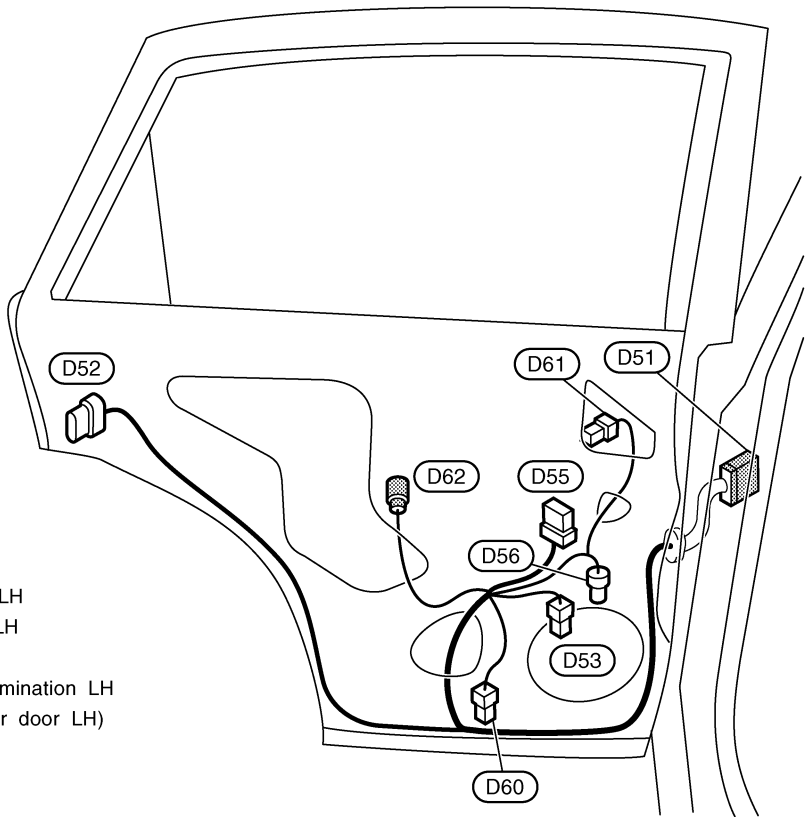


TKIM0639E

D31	SMJ	:	To M91
D32	W/16	:	Door mirror (Passenger side)
D33	GY/2	:	Front door inside handle illumination (Passenger side)
D34	BR/2	:	Front door speaker RH
D36	W/16	:	Front power window switch (Passenger side)
D38	W/6	:	Front power window motor (Passenger side)
D39	W/2	:	Front step lamp (Passenger side)
D40	B/6	:	Front door lock assembly (Passenger side)
D41	BR/2	:	Intelligent Key warning buzzer (Passenger side)
D42	GY/2	:	Front door request switch (Passenger side)

REAR DOOR HARNESS

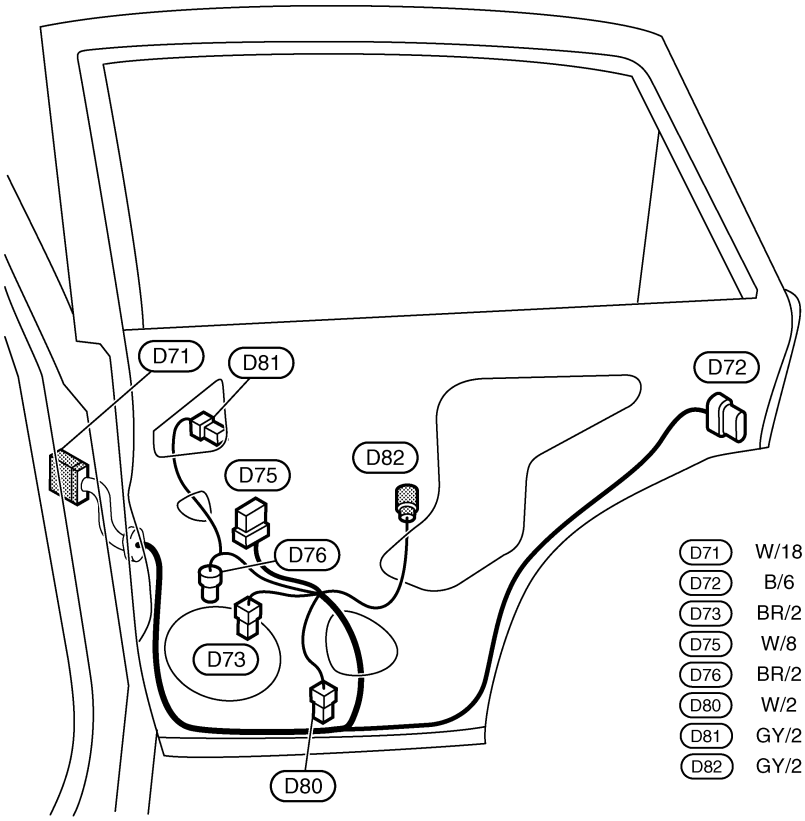
LH Side



TKIM0640E

D51	W/18	:	To B21
D52	B/6	:	Rear door lock actuator LH
D53	BR/2	:	Rear door speaker LH
D55	W/8	:	Rear power window switch LH
D56	BR/2	:	Rear power window motor LH
D60	W/2	:	Rear step lamp LH
D61	GY/2	:	Rear door inside handle illumination LH
D62	GY/2	:	Outside key antenna-1 (Rear door LH)

RH Side

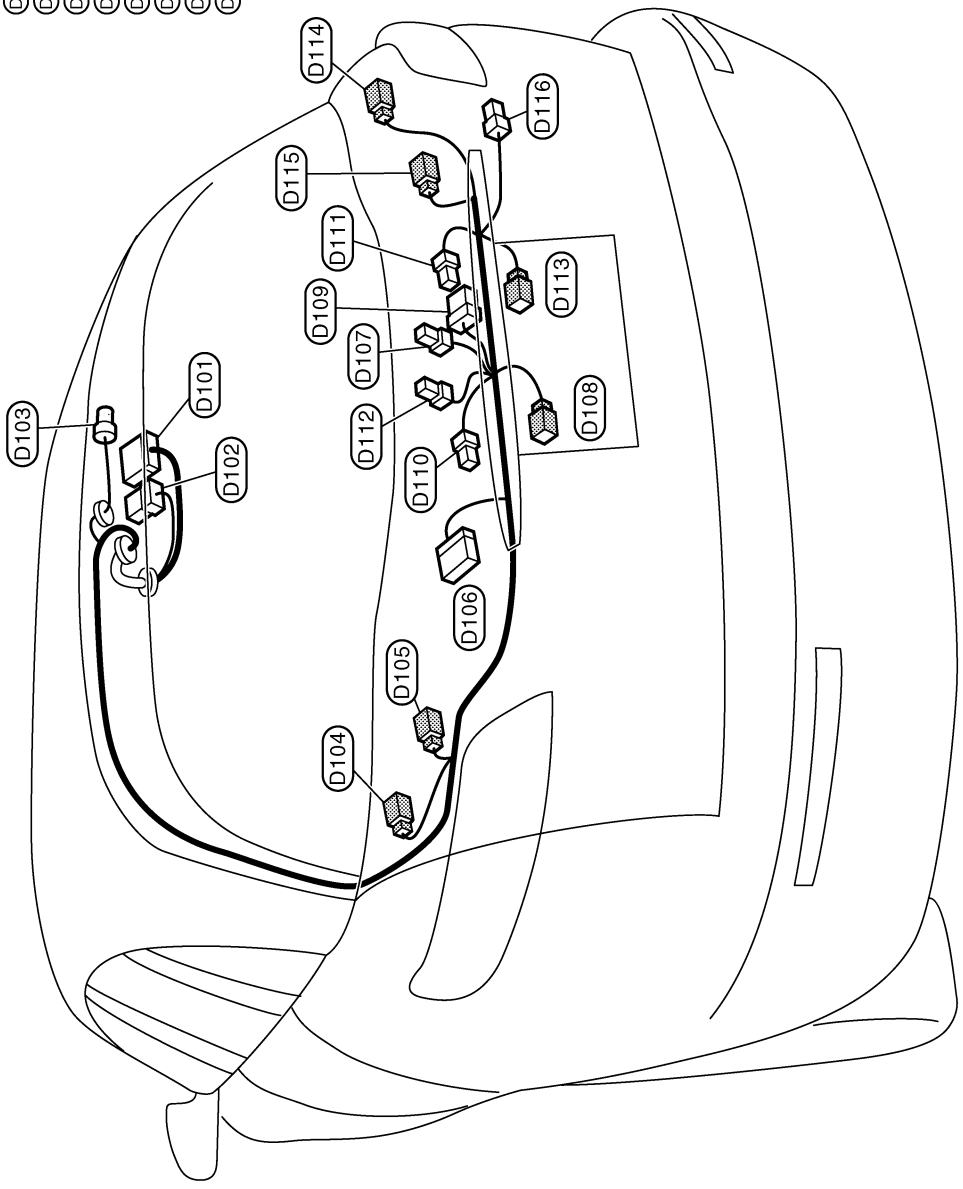


D71	W/18	:	To B31
D72	B/6	:	Rear door lock actuator RH
D73	BR/2	:	Rear door speaker RH
D75	W/8	:	Rear power window switch RH
D76	BR/2	:	Rear power window motor RH
D80	W/2	:	Rear step lamp RH
D81	GY/2	:	Rear door inside handle illumination RH
D82	GY/2	:	Outside key antenna-2 (Rear door RH)

TKIM0641E

BACK DOOR HARNESS

D101	W/16	:	To (B51)
D102	W/6	:	To (B52)
D103	GY/2	:	High-mounted stop lamp
D104	GY/1	:	Rear window defogger (+)
D105	W/2	:	Back-up lamp LH
D106	W/10	:	Back door closure control unit
D107	W/4	:	Rear wiper motor
D108	W/4	:	Rear view camera
D109	W/8	:	Back door closure motor
D110	W/2	:	License plate lamp LH
D111	W/2	:	License plate lamp RH
D112	W/2	:	Back door opener switch
D113	BR/2	:	Back door request switch
D114	GY/1	:	Rear window defogger (-)
D115	W/2	:	Back-up lamp RH
D116	BR/2	:	Outside key antenna-3 (Back door)



TKIH0016E

Wiring Diagram Codes (Cell Codes)

NKS003GO

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

Code	Section	Wiring Diagram Name
A/C	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
AUT/DP	SE	Automatic Drive Positioner
AUTO/L	LT	Automatic Light System
AWD	TF	AWD Control System
B/CLOS	BL	Back Door Closure System
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
CLOCK	DI	Clock
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication Line
COMPAS	DI	Compass
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	Electric Throttle Control Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/PUMP	EC	Fuel Pump
FTS	AT	A/T Fluid Temperature Sensor Circuit

Code	Section	Wiring Diagram Name
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 2)
H/AIM	LT	Headlamp Aiming Control System
H/LAMP	LT	Headlamp
H/PHON	AV	Hands Free Telephone
HORN	WW	Horn
HSEAT	SE	Heated Seat
I/KEY	BL	Intelligent Key System
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
ICC	ACS	Intelligent Cruise Control System
ICC/BS	EC	ICC Brake Switch
ICC/SW	EC	ICC Steering Switch
ICCBOF	EC	ICC Brake Switch
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INF/D	AV	Vehicle Information and Integrated Switch System
INJECT	EC	Injector
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
IVCSB1	EC	Intake Valve Timing Control Position Sensor Bank 1
IVCSB2	EC	Intake Valve Timing Control Position Sensor Bank 2
IVTB1	EC	Intake Valve Timing Control System (Bank 1)
IVTB2	EC	Intake Valve Timing Control System (Bank 2)
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
LDW	DI	Lane Departure Warning System
M/ANT	AV	Manual Antenna
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
MES	AV	Mobile Entertainment System
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

Code	Section	Wiring Diagram Name
P/SCKT	WW	Power Socket
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHASE	EC	Camshaft Position Sensor (PHASE)
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
PS/SEN	EC	Power Steering Pressure Sensor
R/VIEW	DI	Rear View Camera Control System
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
SNOWSW	EC	Snow Mode Switch
SROOF	RF	Sunroof
SRS	SRS	Supplemental Restraint System
START	SC	Starting System
STOP/L	LT	Stop Lamp
STSIG	AT	Start Signal Circuit
T/WARN	WT	Low Tire Pressure Warning System
TAIL/L	LT	Parking, License and Tail Lamps
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
VDC	BRC	Vehicle Dynamics Control System
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VIAS	EC	Variable Induction Air Control System
VIAS/V	EC	VIAS Control Solenoid Valve
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer

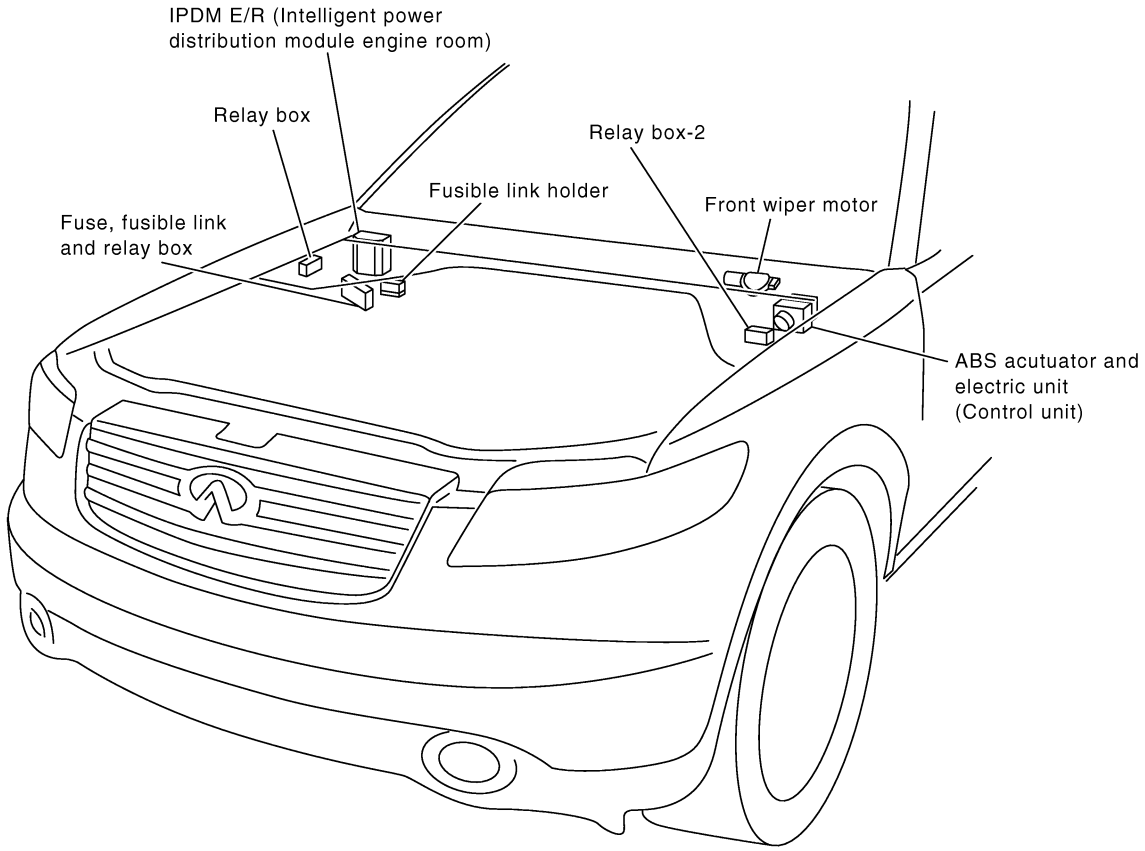
ELECTRICAL UNITS LOCATION

PFP:25230

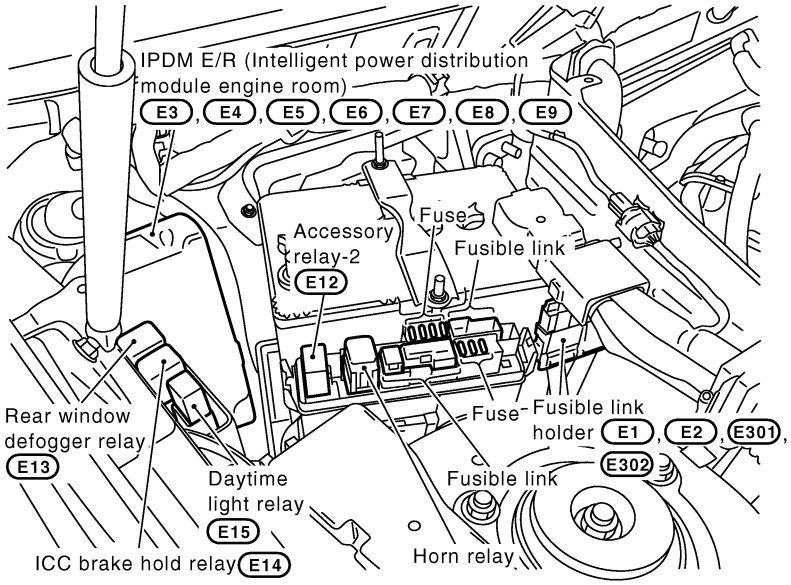
Electrical Units Location

NKS003GP

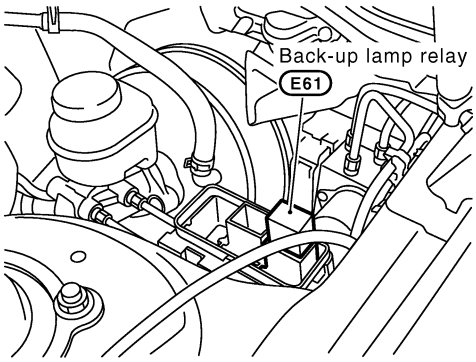
ENGINE COMPARTMENT



FUSE, FUSIBLE LINK AND RELAY BOX

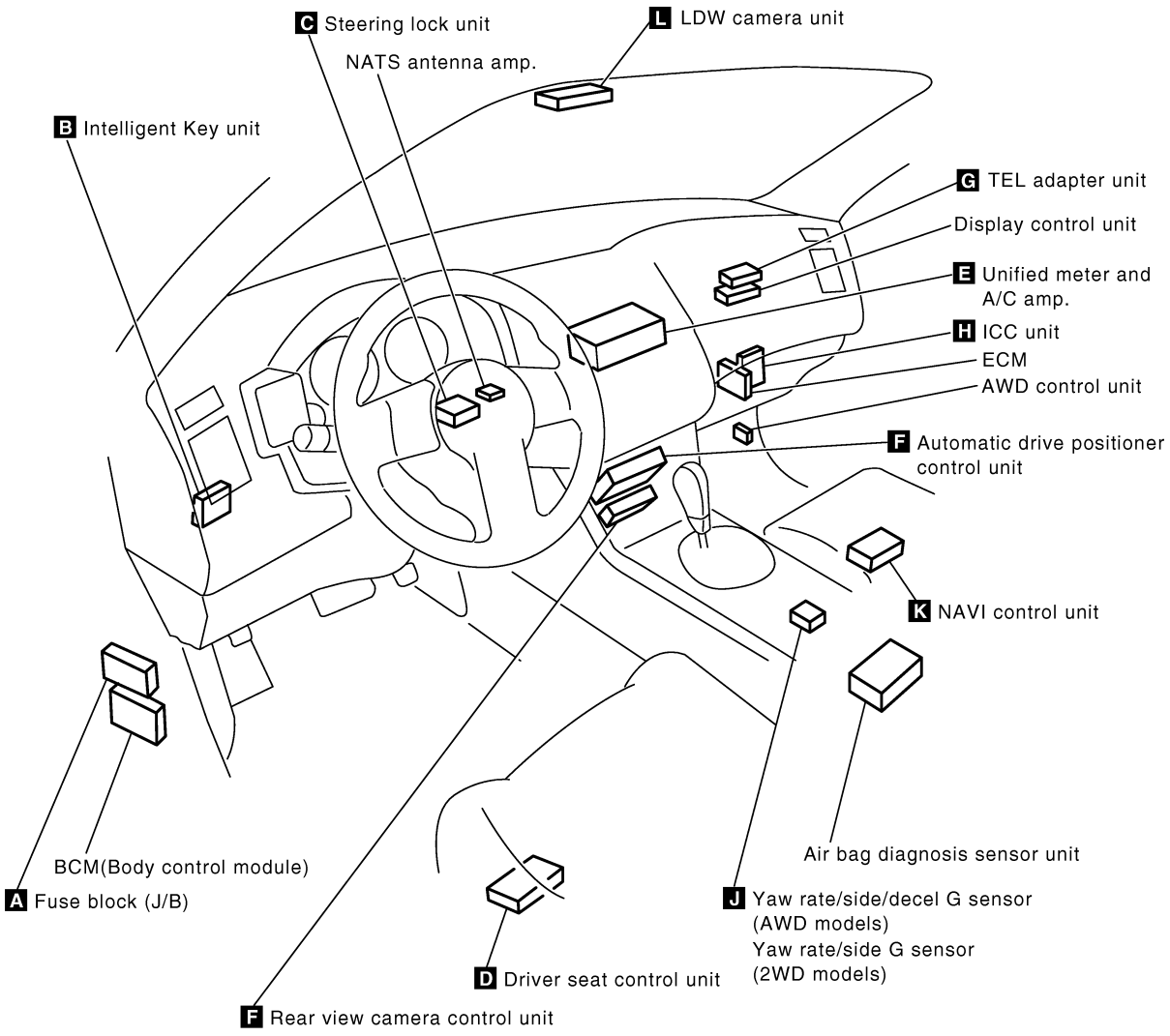


RELAY BOX-2

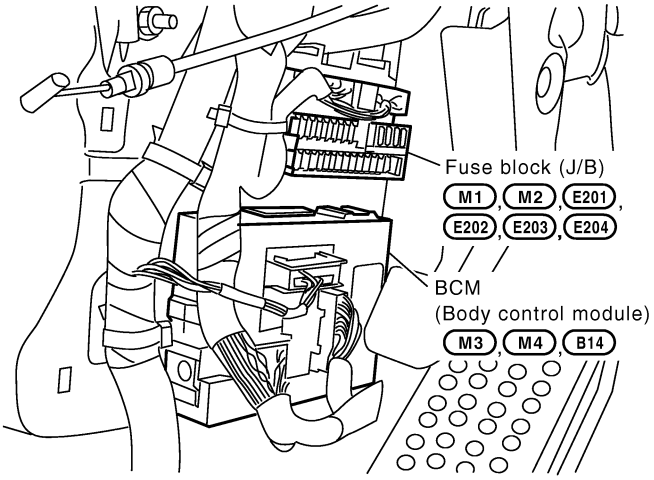


CKIM0646E

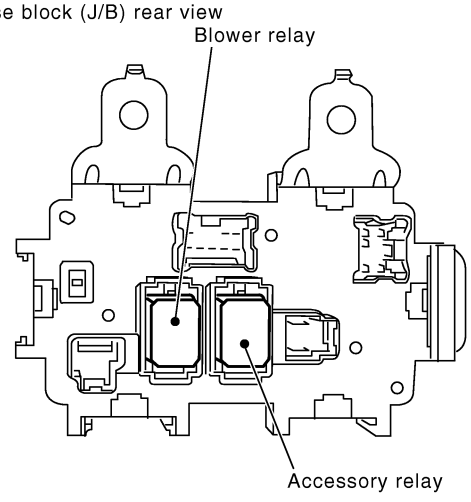
PASSENGER COMPARTMENT



A Behind dash side lower finisher LH



Fuse block (J/B) rear view



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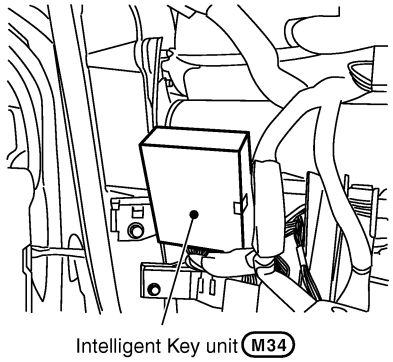
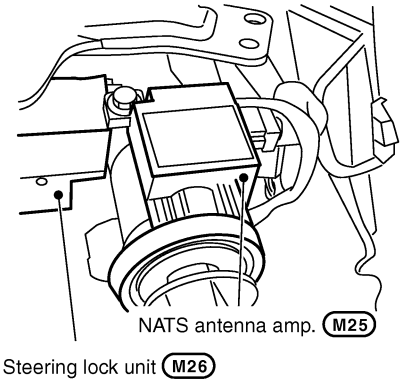
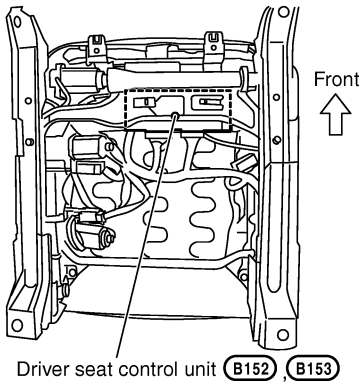
B Driver side view with lower instrument panel removed



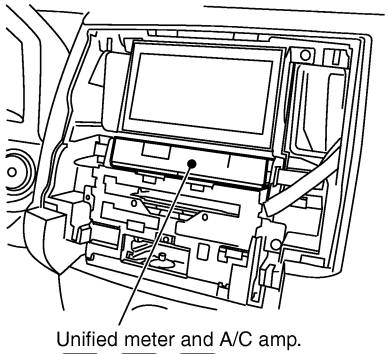
C Driver side view with cluster lid A removed



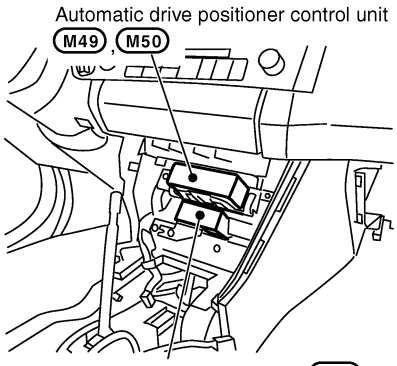
D Under driver seat



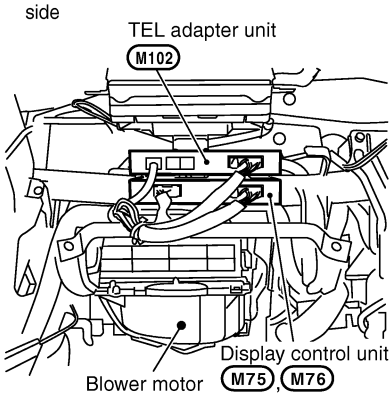
E View with cluster lid C removed



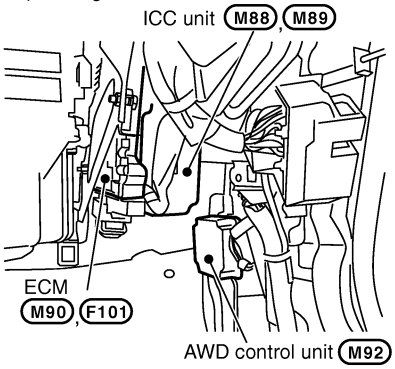
F View with instrument panel center removed



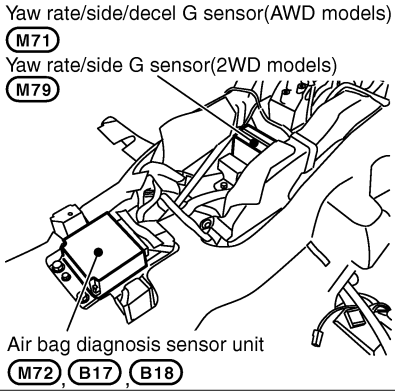
G Behind lower instrument panel on passenger side



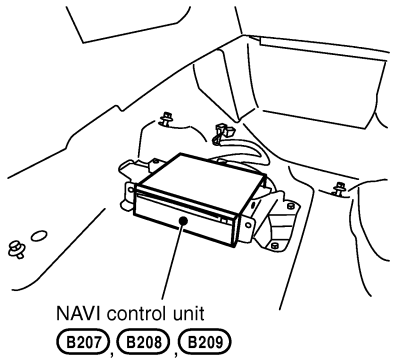
H Behind lower instrument panel on passenger side



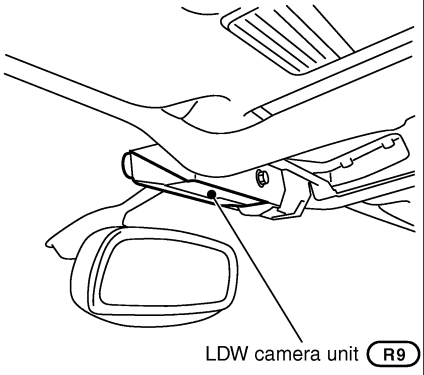
J View with floor console box removed



K View with passenger seat removed

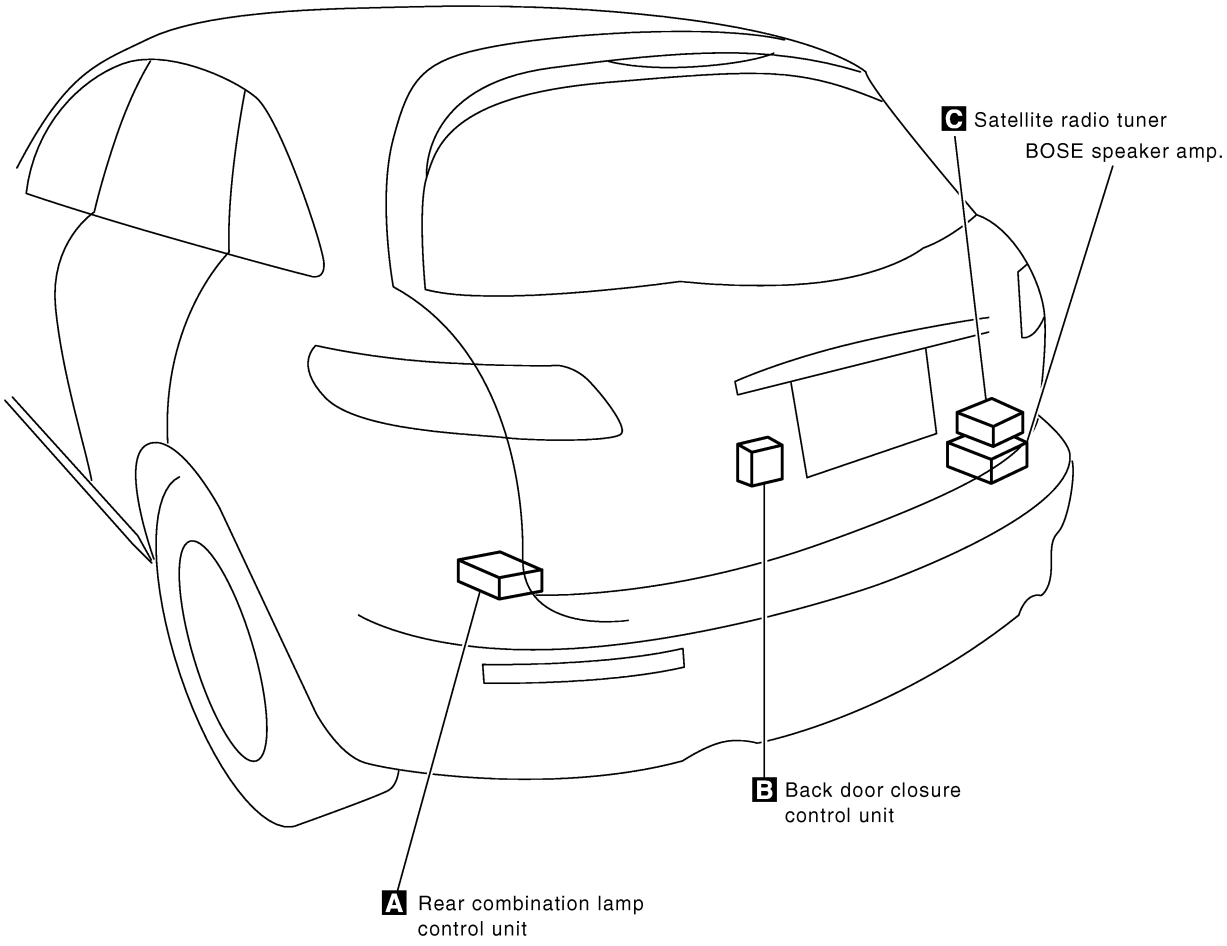


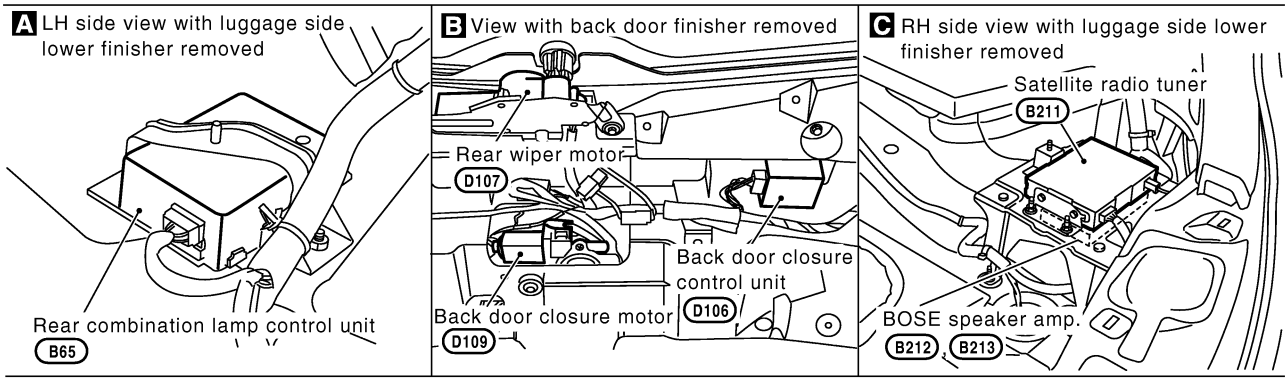
L Map lamp garnish removed



CKIM0648E

LUGGAGE COMPARTMENT





CKIM0649E

HARNESS CONNECTOR

PFP:00011

Description

NKS003GQ

HARNESS CONNECTOR (TAB-LOCKING TYPE)

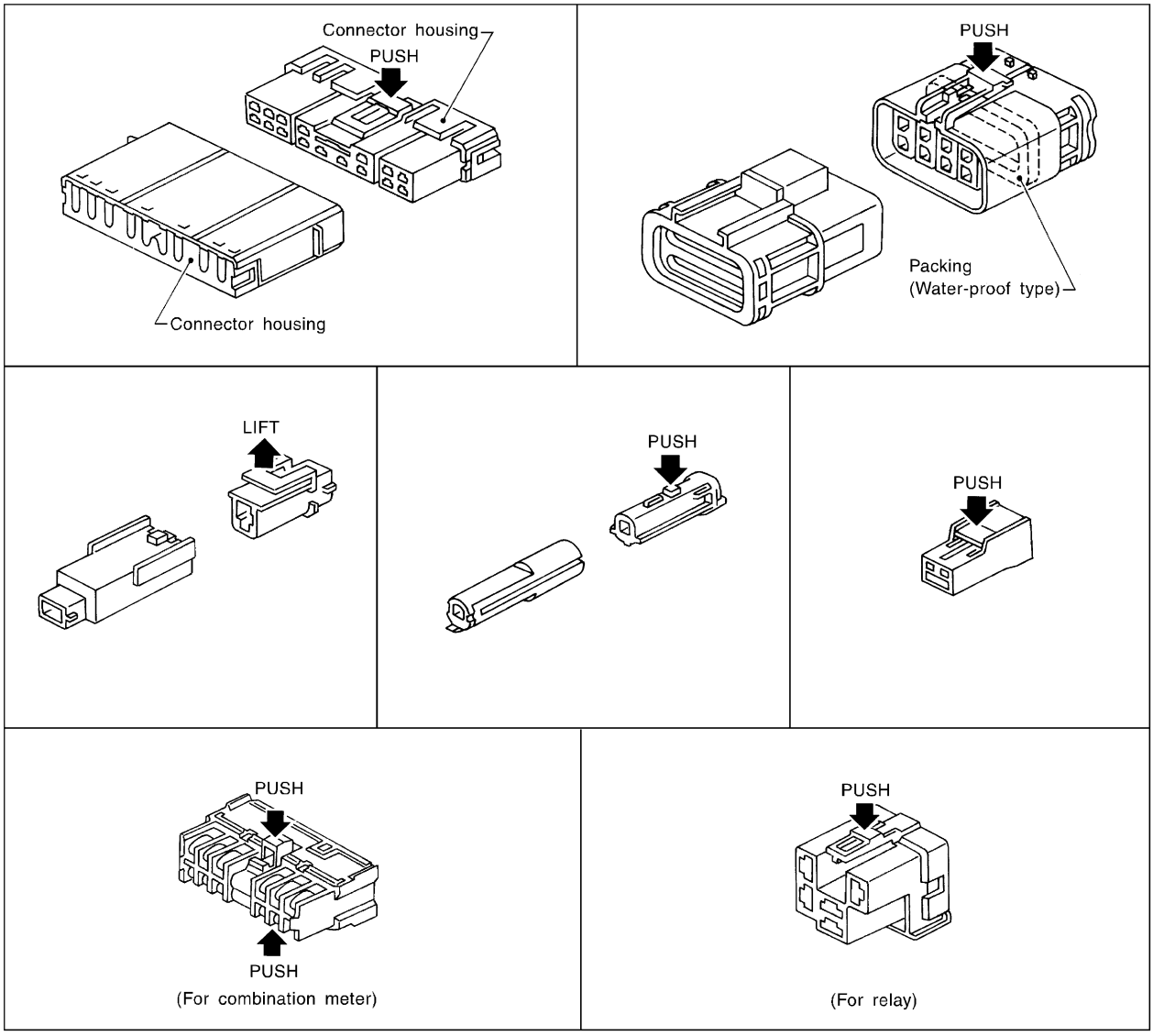
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

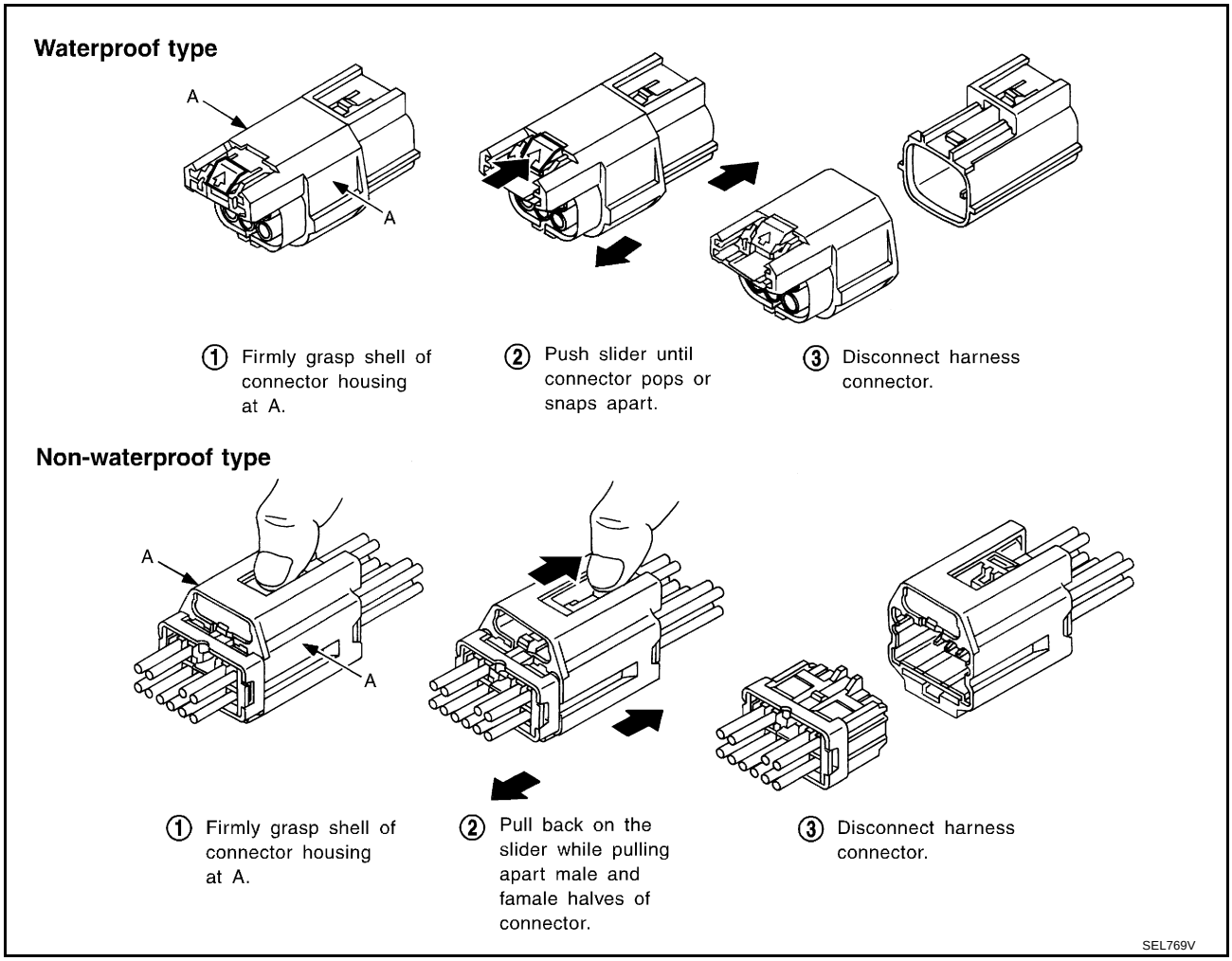
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]

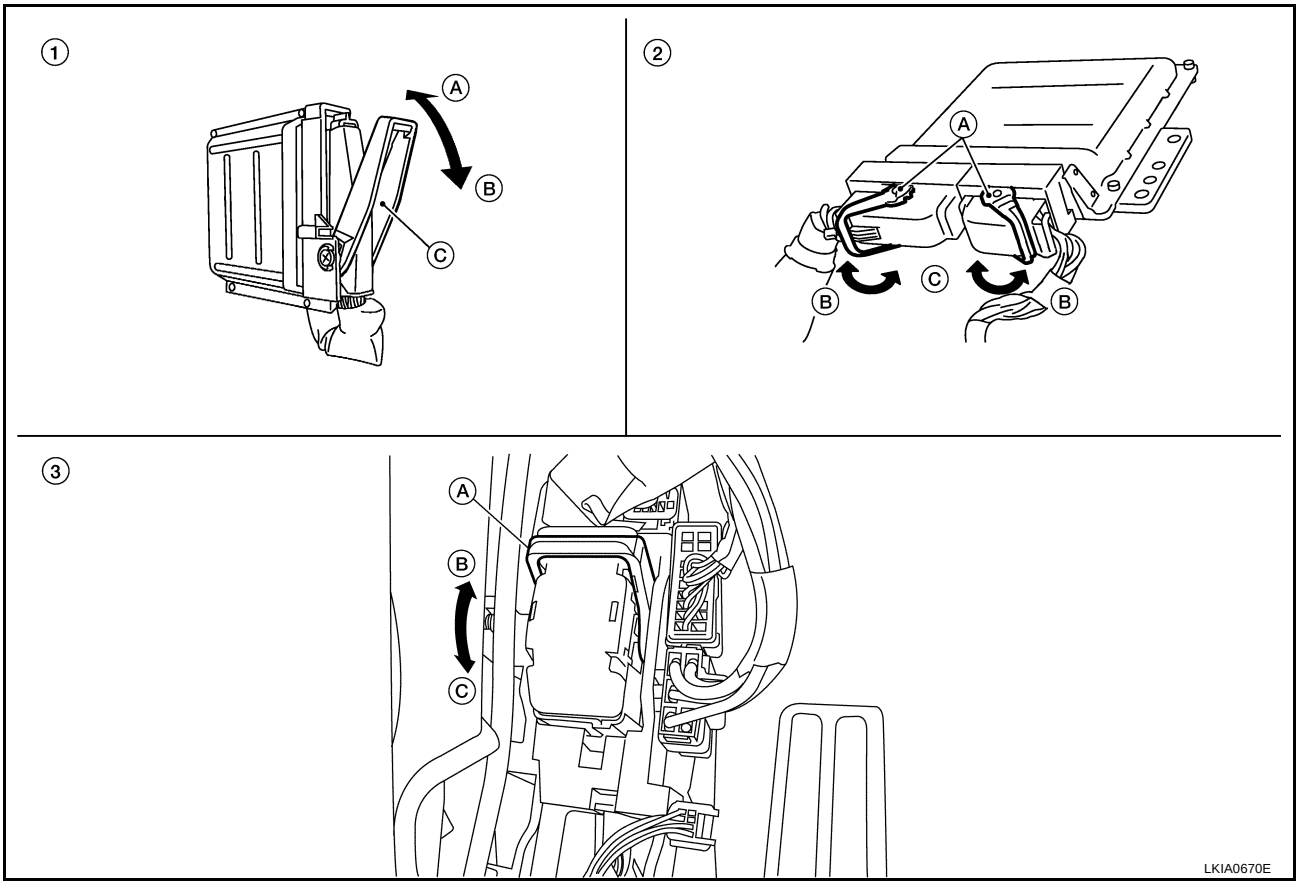


HARNESS CONNECTOR (LEVER LOCKING TYPE)

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

CAUTION:

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



1. Control unit with single lever
   A. Fasten
   B. Loosen
   C. Lever
2. Control unit with dual levers
   A. Levers
   B. Fasten
   C. Loosen
3. SMJ connector
   A. Lever
   B. Fasten
   C. Loosen

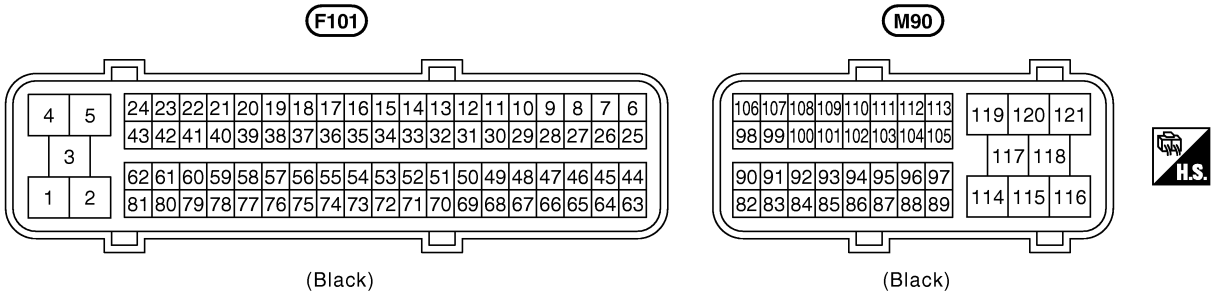
ELECTRICAL UNITS

PFP:00011

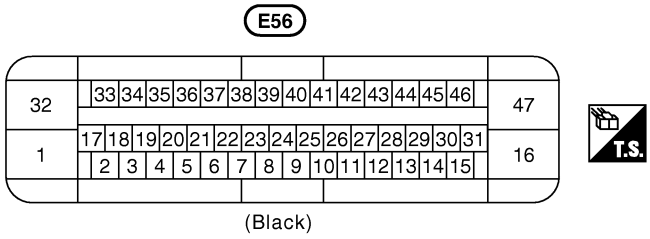
Terminal Arrangement

NKS003GR

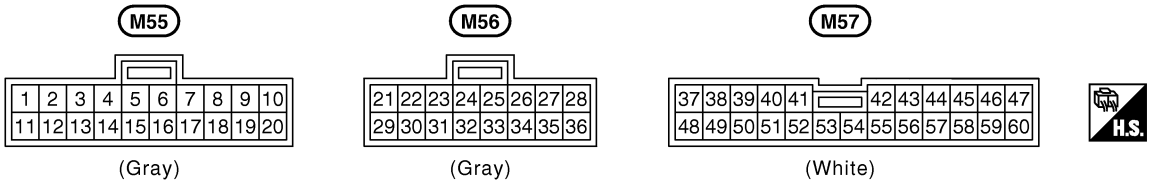
ECM



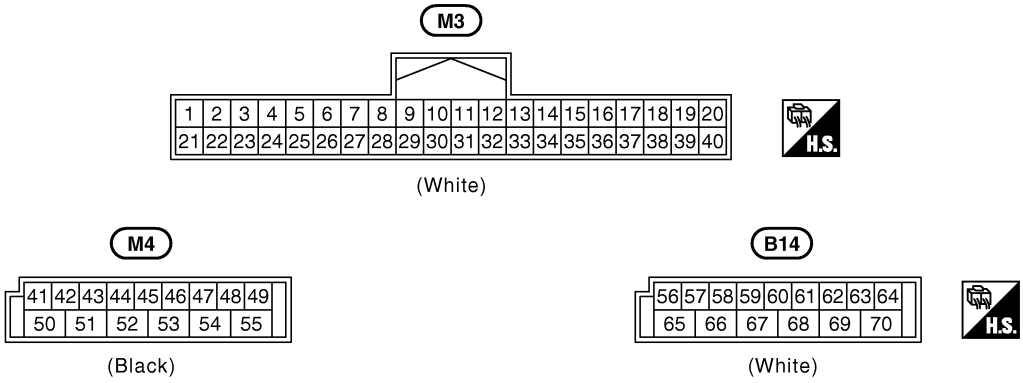
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



UNIFIED METER AND A/C AMP.

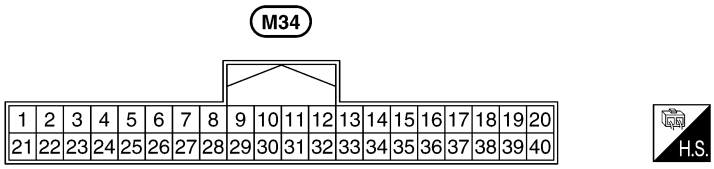


BCM (BODY CONTROL MODULE)



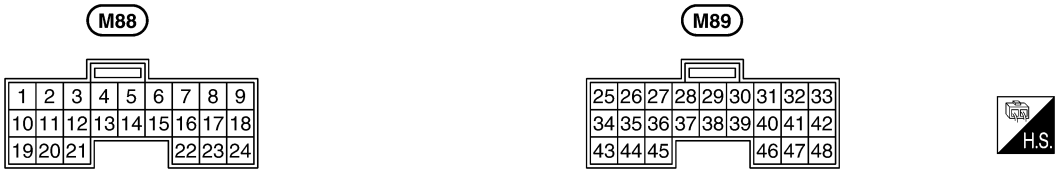
CKIM0650E

INTELLIGENT KEY UNIT



(White)

ICC UNIT



(White)

(Gray)

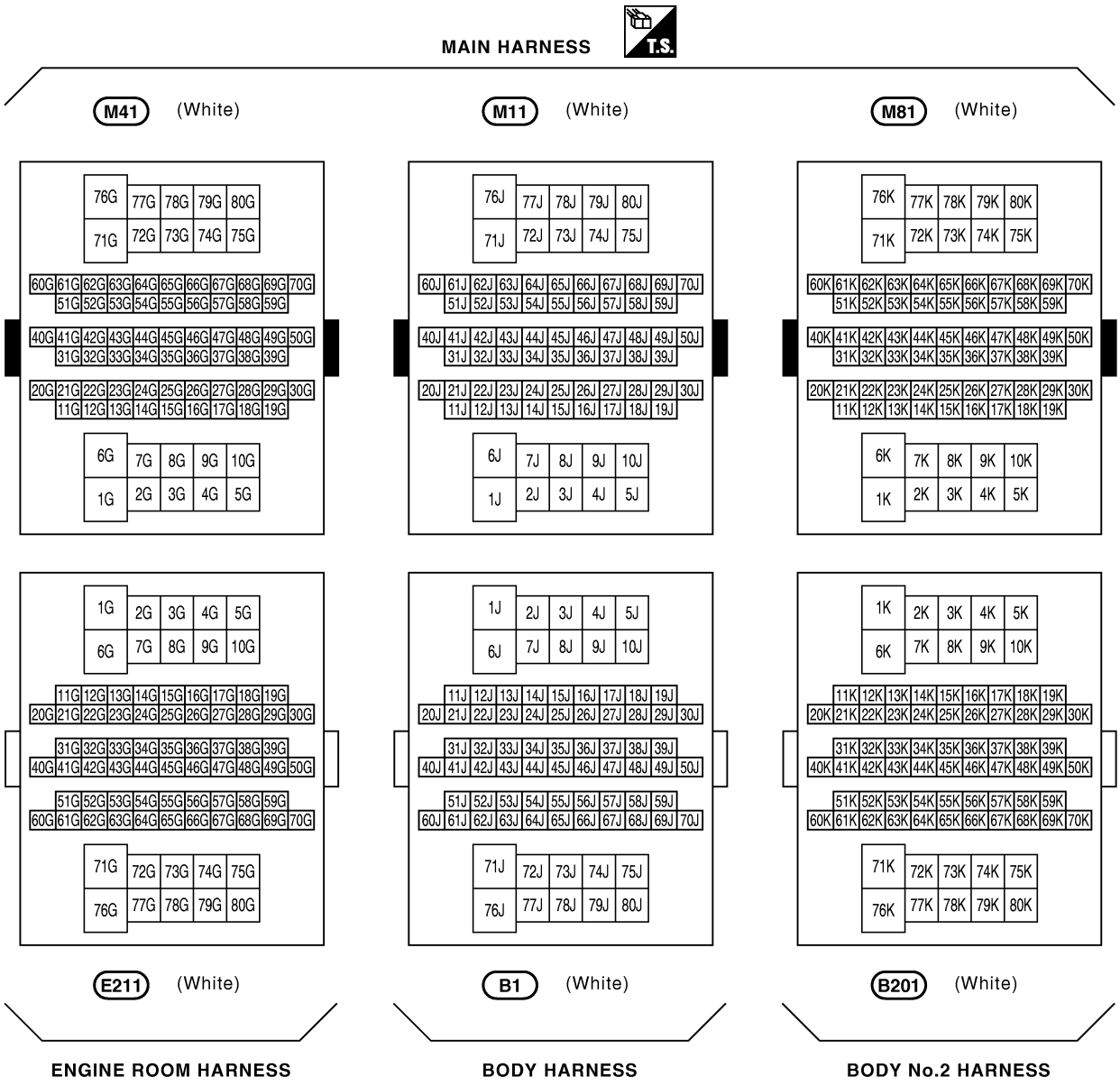
CKIM0218E

SMJ (SUPER MULTIPLE JUNCTION)

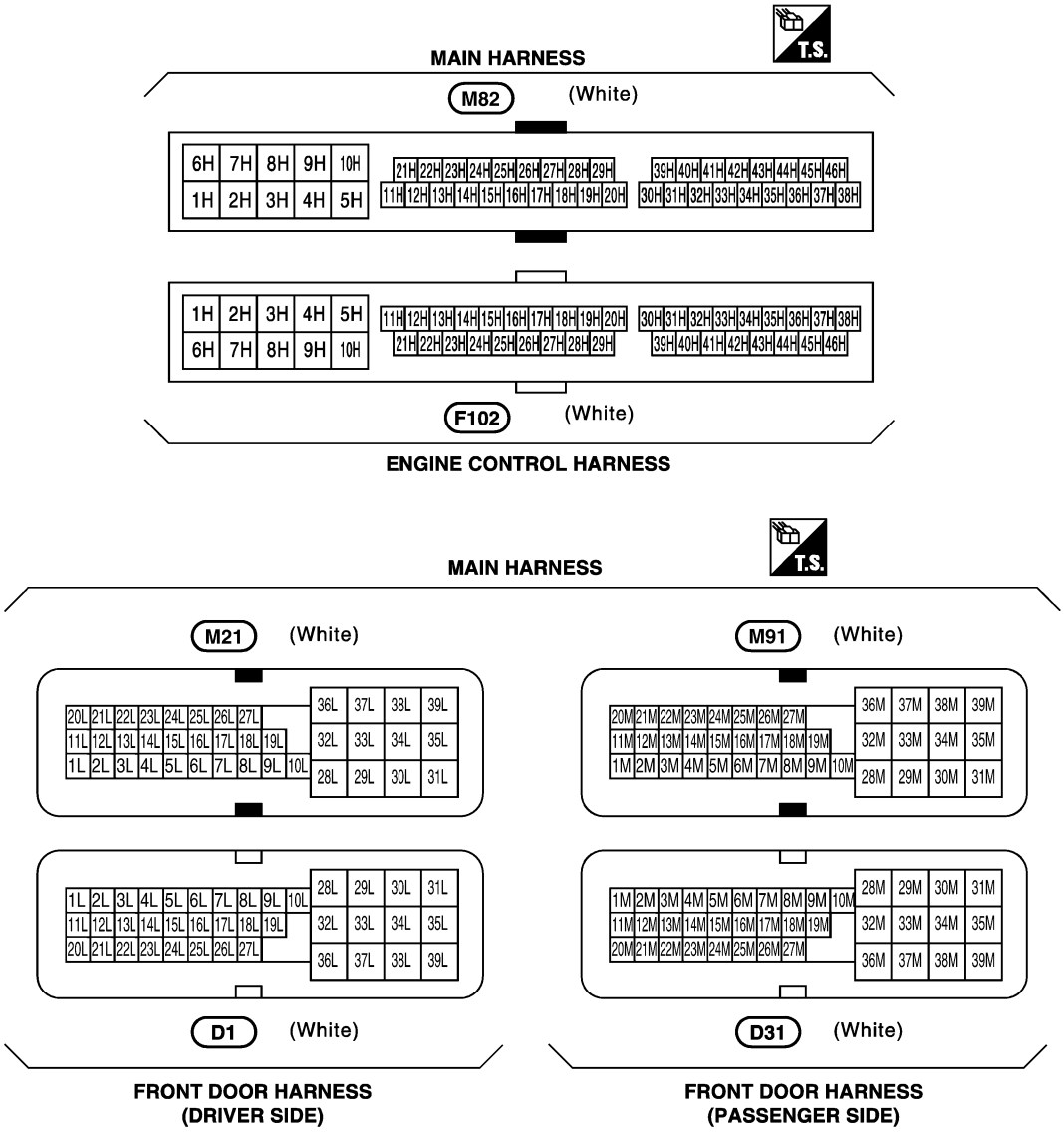
PFP:B4341

Terminal Arrangement

NKS003GS



CKIM0651E


T.S.
MAIN HARNESS
M82
(White)
6H 7H 8H 9H 10H
1H 2H 3H 4H 5H
21H 22H 23H 24H 25H 26H 27H 28H 29H
11H 12H 13H 14H 15H 16H 17H 18H 19H 20H
39H 40H 41H 42H 43H 44H 45H 46H
30H 31H 32H 33H 34H 35H 36H 37H 38H
1H 2H 3H 4H 5H
6H 7H 8H 9H 10H
11H 12H 13H 14H 15H 16H 17H 18H 19H 20H
21H 22H 23H 24H 25H 26H 27H 28H 29H
30H 31H 32H 33H 34H 35H 36H 37H 38H
39H 40H 41H 42H 43H 44H 45H 46H
F102
(White)
ENGINE CONTROL HARNESS
T.S.
MAIN HARNESS
M21
(White)
20L 21L 22L 23L 24L 25L 26L 27L
11L 12L 13L 14L 15L 16L 17L 18L 19L
1L 2L 3L 4L 5L 6L 7L 8L 9L 10L
36L 37L 38L 39L
32L 33L 34L 35L
28L 29L 30L 31L
M91
(White)
20M 21M 22M 23M 24M 25M 26M 27M
11M 12M 13M 14M 15M 16M 17M 18M 19M
1M 2M 3M 4M 5M 6M 7M 8M 9M 10M
36M 37M 38M 39M
32M 33M 34M 35M
28M 29M 30M 31M
1L 2L 3L 4L 5L 6L 7L 8L 9L 10L
11L 12L 13L 14L 15L 16L 17L 18L 19L
20L 21L 22L 23L 24L 25L 26L 27L
28L 29L 30L 31L
32L 33L 34L 35L
36L 37L 38L 39L
D1
(White)
FRONT DOOR HARNESS
(DRIVER SIDE)
1M 2M 3M 4M 5M 6M 7M 8M 9M 10M
11M 12M 13M 14M 15M 16M 17M 18M 19M
20M 21M 22M 23M 24M 25M 26M 27M
28M 29M 30M 31M
32M 33M 34M 35M
36M 37M 38M 39M
D31
(White)
FRONT DOOR HARNESS
(PASSENGER SIDE)

CKIM0220E

STANDARDIZED RELAY

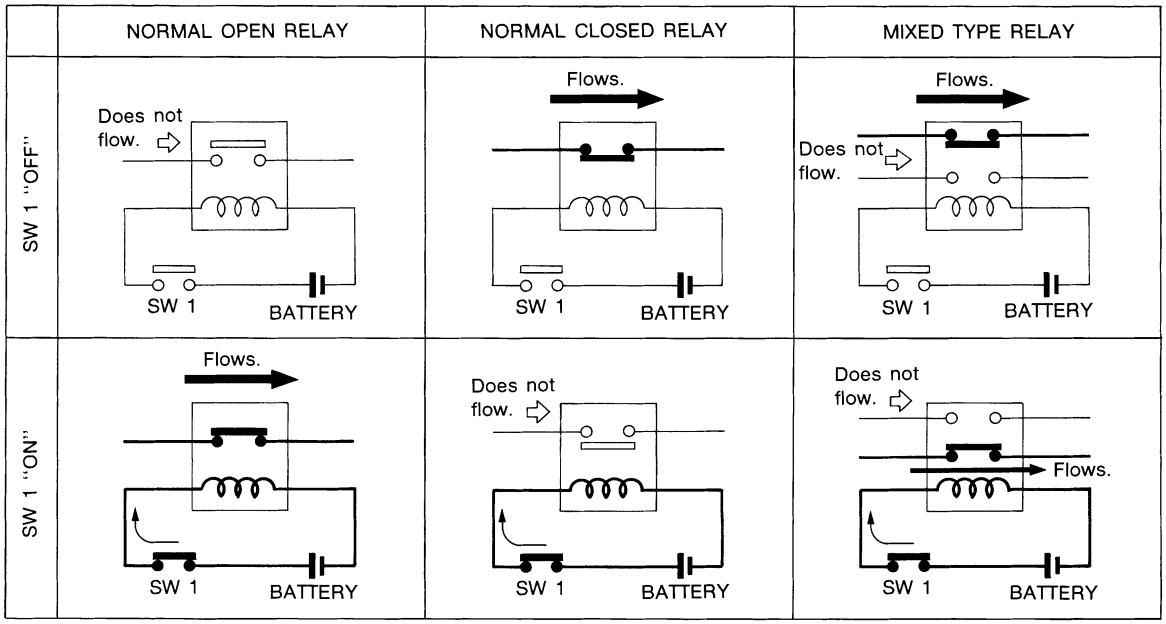
PFP:00011

Description

NKS003GT

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

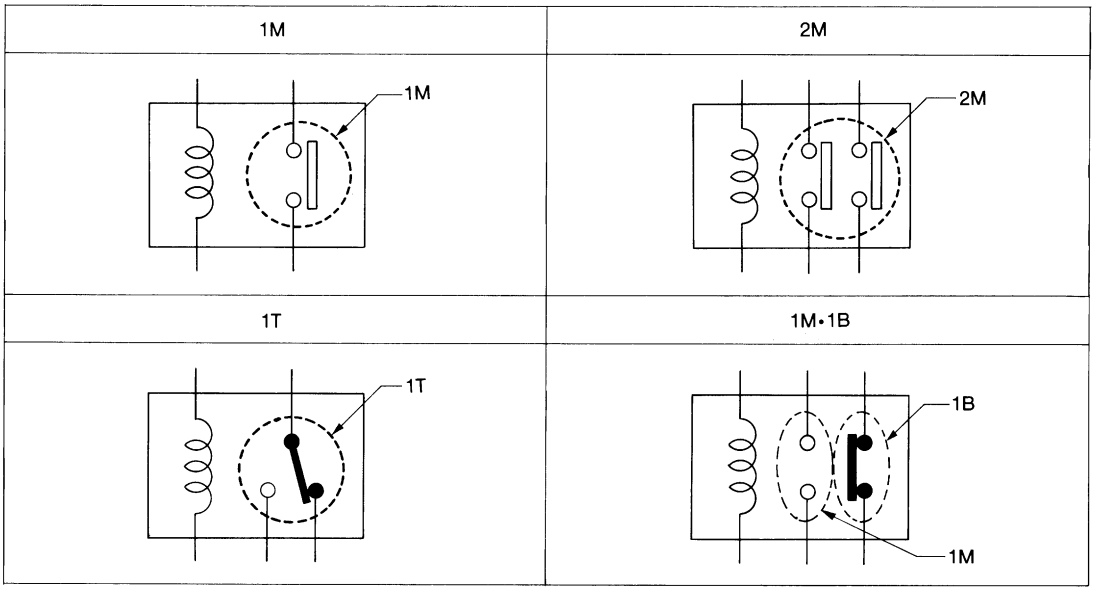
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



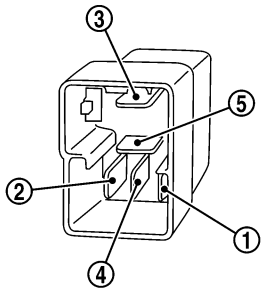
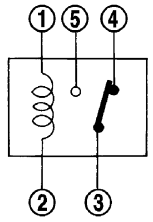
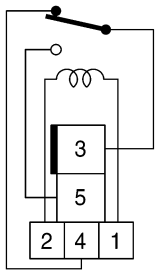
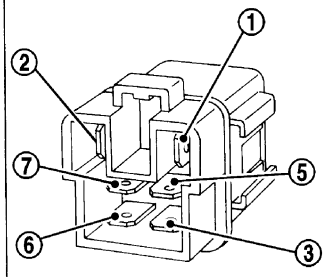
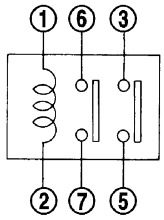
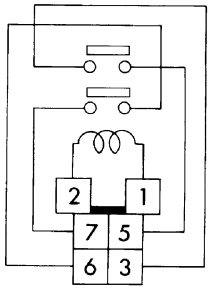
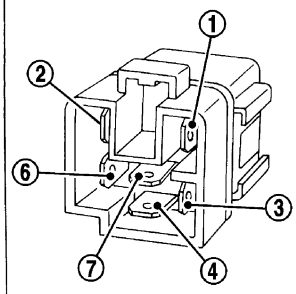
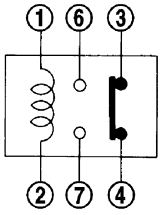
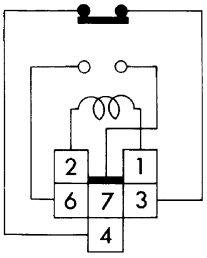
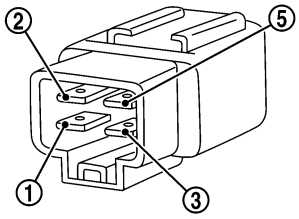
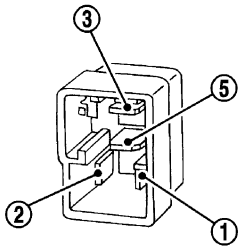
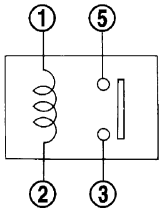
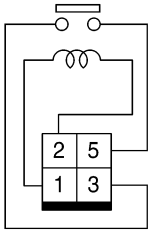
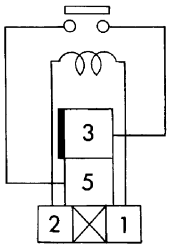
SEL881H

TYPE OF STANDARDIZED RELAYS

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



SEL882H

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.

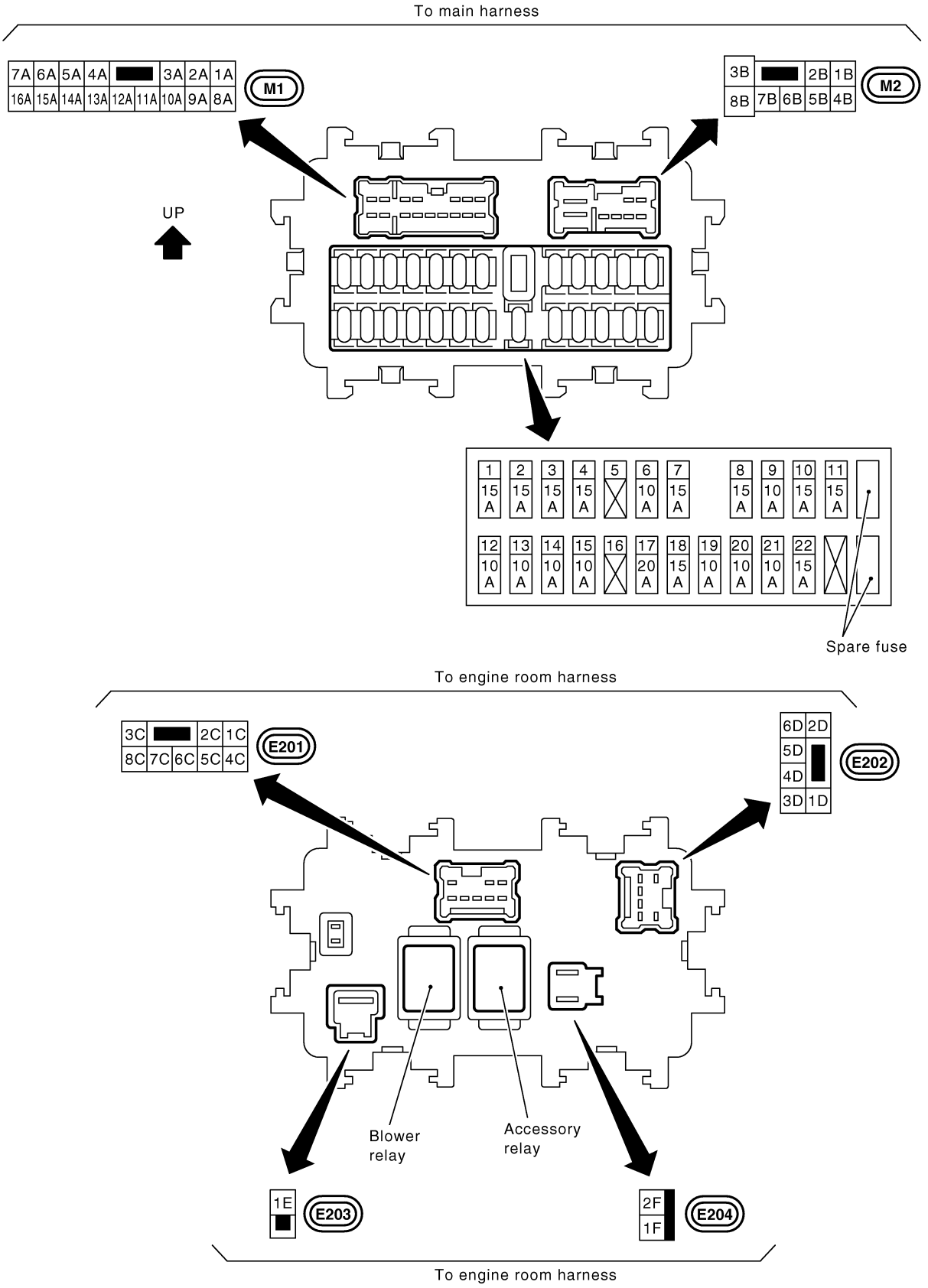
CKIM0221E

FUSE BLOCK - JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

NKS003GU



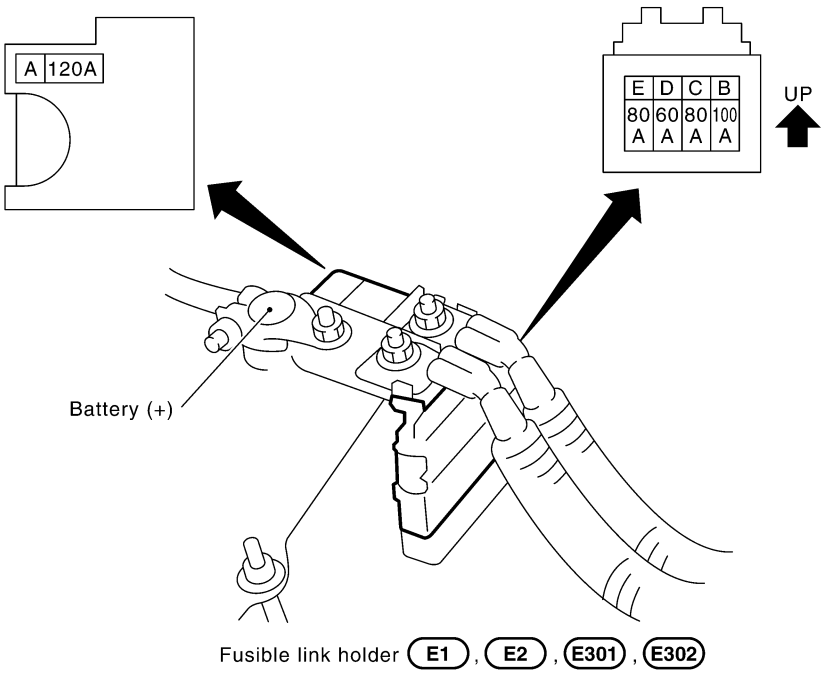
CKIM0652E

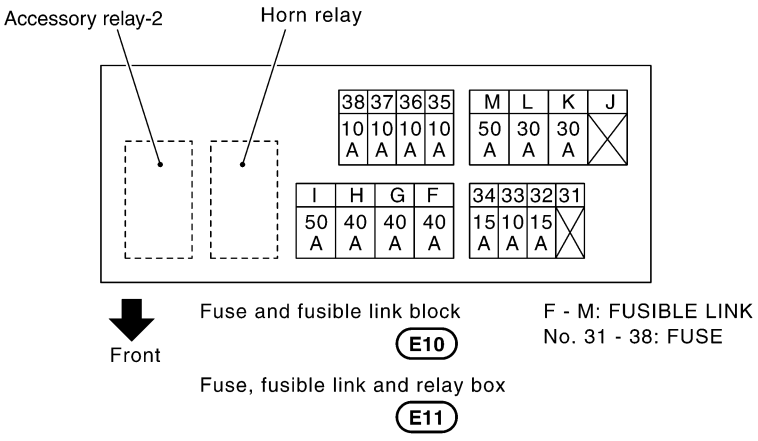
FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

Terminal Arrangement

NKS003GV





CKIM0223E