SECTION SECTION POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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Schematic

For detailed ground distribution, refer to PG-26, "Ground Distribution" .



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POWER SUPPLY ROUTING CIRCUIT





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PG-POWER-04



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3 4 E119	1 E120	29 30 31 🗔 32 33 34 35	(E122) 17 18 19 20 21 (E124)
56 W	2 B	36 37 38 39 40 41 42 43 44	GY 22 23 24 25 26 27 28 W
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ACCESSORY POWER SUPPLY - IGNITION SW. IN ACC OR ON



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

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IGNITION POWER SUPPLY — IGNITION SW. IN ON PG-POWER-06 BATTERY REFER TO "PG-POWER-02". 40A m G В IGNITION SWITCH (E41) OFF 🗎 ST ACC ON IG2 R I3Q FUSE BLOCK (J/B) TO PG-POWER-03 3 (M3) 1 BLOWER RELAY (E30) Ъп b J-1 οl 5 2 ŧ Ø Ò 15A 15A 10 11 PAGE 7N ЗN 8N T Т w/L B W/L TO ATC-A/C,A MTC-A/C,M MTC-HEATER В В В . (M57) (M61) REFER TO THE FOLLOWING. UPI (M3) , (E30) IG1 ST B E41 J-1)* 5 FUSE BLOCK -IG2 ACC R W JUNCTION BOX (J/B) 22 21 20 X11 10 9 8 19

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

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System Description

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PFP:284B7

- 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 reception, etc.
- It controls operation of each electrical part via BCM and CAN communication lines.

CAUTION:

All IPDM E/R-integrated relays cannot 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:

- Headlamps (Hi, Lo)
- Parking lamps
- Tail lamps
- Front fog lamps
- 2. Wiper control

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

3. 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 signal from ECM and controls the A/C relay.

5. Cooling fan control

Using CAN communication line, it receives signal from ECM and controls cooling fan 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 read necessary information only.

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

Controlled parts	Fail-safe mode
Headlamps	Headlamp relay (Lo) ON
Front fog lamps	Front fog lamp relay OFF
Tail and parking lamps	Tail lamp relay OFF
Front wipers	Until ignition switch is turned OFF, status immediately before fail-safe control is performed is maintained.
Rear window defogger	Rear window defogger relay OFF
Cooling fan	Cooling fan (HI) ON
A/C compressor	A/C 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 current-consumption mode.
 - CAN communication is stopped.
 - When a change in CAN communication line is detected, mode switches to CAN communication status.

CAN Communication System Description

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. Many electronic control units are equipped onto a vehicle, 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.

FOR TCS MODELS

System diagram



Input/output signal chart

					I: Trans	mit R: Receive
Signals	ECM	ТСМ	COMBINA- TION METER	BCM	ABS/TCS control unit	IPDM E/R
Engine speed signal	Т		R		R	
Engine coolant temperature signal	Т		R			
Accelerator pedal position signal	Т					
Fuel consumption monitor signal	Т		R			
A/T warning lamp signal		Т	R			
A/T position indicator signal	R		R	R ^(R range only)	R	
ABS operation signal	R				Т	
TCS operation signal	R	R			Т	
Air conditioner switch signal	R			Т		
Air conditioner compressor signal	R					Т
A/C compressor request signal	Т					R
Cooling fan motor operation signal	R					Т
Cooling fan speed request signal	Т					R
Position lights request			R	Т		R
Position lights status				R		Т
Low beam request				Т		R

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Signals	ECM	ТСМ	COMBINA- TION METER	BCM	ABS/TCS control unit	IPDM E/R
Low beam status	R			R		Т
High beam request			R	Т		R
High beam status	R			R		Т
Front fog lights request				Т		R
Front fog light status				R		Т
OD cancel switch signal		R	Т			R
Brake switch signal		R	т			
Vehicle apped signal	R	Т				
venicie speed signal	R		Т	R		
Oil pressure switch			R			Т
Sleep request1			R	Т		
Sleep request2				Т		R
N range switch signal		R	Т			
P range switch signal		R	т			
Seat belt buckle switch signal			Т	R		
Door switch signal			R	Т		R
Tail lamp request			R	Т		R
Turn indicator signal			R	Т		
Buzzer output signal			R	Т		
Trunk switch signal			R	Т		
ASCD main switch signal	Т		R			
ASCD cruise signal	Т		R			
Wiper operation				R		Т
Wiper stop position signal				R		Т
Rear window defogger switch signal				Т		R
Rear window defogger control sig- nal	R			R		Т

FOR A/T MODELS

System diagram



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	COMBINATION METER	BCM	IPDM E/R
Engine speed signal	Т		R		
Engine coolant temperature signal	Т		R		

Signals	ECM	ТСМ	COMBINATION METER	BCM	IPDM E/R	A
Accelerator pedal position signal	Т				R	-
Fuel consumption monitor signal	Т		R			D
A/T warning lamp signal		Т	R			- D
A/T position indicator signal	R	Т	R	R ^(R range only)		_
Air conditioner switch signal	R			Т		С
Air conditioner compressor signal	R				Т	-
A/C compressor request signal	Т				R	
Blower fan switch signal	R ^(QR25DE)			Т		D
Cooling fan motor operation signal	R			Т		
Cooling fan speed request signal	Т				R	E
Position lights request			R	Т	R	
Position lights status				R	Т	
Low beam request				Т	R	- F
Low beam status	R			R	Т	_
High beam request			R	Т	R	G
High beam status	R			R	т	-
Front fog lights request				Т	R	-
Front fog light status				R	Т	- H
OD cancel switch signal		R	т		R	-
Brake switch signal		R	т			-
Vahiela spaad signal	R	Т				
venicie speed signal	R		Т	R		-
Oil pressure switch			R		Т	J
Sleep request1			R	Т		_
Sleep request2				Т	R	PG
N range switch signal		R	Т			
P range switch signal		R	Т			_
Seat belt buckle switch signal			Т	R		L
Door switch signal			R	Т	R	
Tail lamp request			R	Т	R	M
Turn indicator signal			R	Т		
Buzzer output signal			R	Т		_
Trunk switch signal			R	Т		
ASCD main switch signal	Т		R			
ASCD cruise signal	Т		R			_
Wiper operation				R	Т	_
Wiper stop position signal				R	Т	_
Rear window defogger switch signal				Т	R	_
Rear window defogger control signal	R			R	Т	_

FOR M/T MODELS System diagram



Input/output signal chart

Signals	ECM	COMBINATION METER	BCM	IPDM E/R
Engine speed signal	Т			
Engine coolant temperature signal	Т			
Fuel consumption monitor signal	Т			
Air conditioner switch signal	R		Т	
Air conditioner compressor signal	R			Т
A/C compressor request signal	Т			R
Blower fan switch signal	R ^(QR25DE)		т	
Cooling fan motor operation signal	R			Т
Cooling fan speed request signal	Т			R
Position lights request		R	т	R
Position lights status			R	Т
Low beam request			т	R
Low beam status	R		R	Т
High beam request		R	т	R
High beam status	R		R	Т
Front fog lights request			т	R
Front fog light status			R	Т
Vehicle speed signal	R	Т		
Oil pressure switch		R		Т
Sleep request1		R	Т	
Sleep request2			Т	R
Seat belt buckle switch signal		Т	R	
Door switch signal		R	т	R
Tail lamp request		R	т	R
Turn indicator signal		R	т	
Buzzer output signal		R	т	
Trunk switch signal		R	т	
ASCD main switch signal	Т	R		
ASCD cruise signal	Т	R		
Wiper operation			R	Т
Wiper stop position signal			R	Т

T: Transmit R: Receive

	Signals	ECM	COMBINATION METER	BCM	IPDM E/R	A
Re	ear window defogger switch signal			Т	R	
Re	ar window defogger control signal	R		R	Т	F
Fu	nction of Detecting Ignition	n Relay Malfu	unction		EKS002L9	
•	When contact point of integrated igr and parking lamps for 10 minutes to	ition relay is stuc indicate IPDM E	k and cannot be t /R malfunction.	urned OFF, IPDM	I E/R turns ON tail	С
Au DE	to Active Test SCRIPTION				EKS002LA	Г
•	In auto active test mode, operation the following systems:	inspection can be	e performed wher	IPDM E/R send	s a drive signal to	L
-	Rear window defogger					E
-	Front wipers					
-	Tail and parking lamps					-
_	Headlamps (Hi Lo)					-
_	A/C compressor (magnet clutch)					
_	Cooling fan					G
OP	ERATION PROCEDURE					
1.	Close hood and lift wiper arms away	/ from windshield	(to prevent glass	damage by wipe	r operation).	F
	NOTE:					1
~	When auto active test is performed	with hood opened	d, sprinkle water c	on windshield befo	brehand.	
2.	Turn ignition switch OFF.	10 accordo pro	aa frant daar awit	ah I H tan timan	Then turn ignition	
з.	switch OFF.	To seconds, pres				
	CAUTION: Close front door RH					J
4	Turn ignition switch ON					
5.	When auto active test mode is actua	ated, horn chirps	once, and oil pres	sure warning lam	p starts blinking.	P
6.	After a series of operations is repea	ted three times, a	auto active test is	completed.	1	
	NOTE:					
	When auto active test mode has to	be cancelled half	way, turn ignition	switch OFF.		L
	CAUTION: Be sure to inspect DI-38 "Oil Pre	ssure Warning I	amn Stavs Off (Ignition Switch	ON)" and BI -28	
	"Door Switch Check" when the a	uto active test c	annot be perform	ned.	<u></u> and <u></u>	R.

INSPECTION IN AUTO ACTIVE TEST MODE

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



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 content	S	Possible cause	
Any of front wipers, tail and parking lamps, front fog lamps, and headlamps (Hi, Lo) do not operate.		OK	BCM signal input system	
	Perform auto active test. Does system in question operate?	NG	 Lamp/motor malfunction Lamp/motor ground system malfunction Harness/connector malfunction between IPDM E/R and system in question IPDM E/R (integrated relay) malfunction 	
	Perform auto active	OK	BCM signal input system	
Rear window defogger does not operate.	test. Does rear win- dow defogger oper- ate?	NG	 Rear window defogger relay system Open circuit of rear window defogger IPDM E/R malfunction 	
A/C compressor does not operate.	Perform auto active test. Does magnet clutch operate?	ок	 BCM signal input system CAN communication signal between BCM and ECM. CAN communication signal between ECM and IPDM E/R BCM ECM 	
		NG	 Magnet clutch malfunction Harness/connector malfunction between IPDM E/R and magnet clutch IPDM E/R (integrated relay) malfunction 	
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	ОК	 ECM signal input system CAN communication signal between ECM and IPDM E/R ECM 	
		NG	 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	٨
Oil pressure warning test. Does oil pres-	ОК	 Harness/connector malfunction between IPDM E/R and oil pressure switch Oil pressure switch malfunction 	A	
lamp does not operate.	sure warning lamp blink?	NG	 CAN communication signal between IPDM E/R and combination meter Combination meter 	В

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Schematic

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IPDM E/R FUSE AND RELAY ARRANGEMENT



IPDM E/R TERMINAL ARRANGEMENT



IPDM E/R Power/Ground Circuit Inspection 1. FUSE AND FUSIBLE LINK INSPECTION

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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-b, F/L-d, Fuse No. 40
_	Ignition power	Fuse No. 33

OK or NG?

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

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

Terminal No.	Signal name	Ignition switch	Voltage (V)
1, 2	Battery power	OFF	Approx. 12

OK or NG?

OK >> GO TO 3.

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



\mathbf{3.} ground circuit inspection

Disconnect IPDM E/R harness connectors E121 and E123. Check continuity between IPDM E/R harness connectors E123 terminal 14 (B), E121 terminal 45 (B) and body ground.

	Terminal No.	Signal name	Ignition switch	Continuity
	14, 45	Ground	OFF	YES
~				

OK or NG?

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OK >> Normal

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

Removal and Installation of IPDM E/R

1. Disconnect the negative battery cable.

Remove IPDM E/R harness cover.

- 2. Remove 2 bolts and position coolant reservoir aside.
- 3. Remove IPDM E/R upper cover.



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- 5. Release 2 clips and pull IPDM E/R up from case.
- 6. Disconnect IPDM E/R connectors and then remove it.



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GROUND CIRCUIT Ground Distribution MAIN HARNESS

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View with instru	ment panel removed]		
				
			CONNECTOR NUMBER	CONNECT TO
	•		M3	Fuse box (J/B) (Terminal No. 7N)
	•		M5	Illumination control switch
	•		M6	TCS ON/OFF switch (With TCS)
Q (M57)	•		M13	Heated seat relay
Body ground	•		M18	BCM (Body control module) (Terminal No. 63)
	•		M20	BCM (Body control module) (Terminal No. 27)
	•		(M22)	Data link connector (Terminal No. 4)
	•		M23	Combination meter (Terminal No. 35) (A/T indicator)
			M23	Combination meter (Terminal No. 39)
	•		M24)	Combination meter (Terminal No. 6)
	•		M27	Immobilizer control unit (Terminal No. 4)
	•		M28	Combination switch
	M7 E28 h	ngine room arness LH ingine control	(E1)	Ambient temperture sensor (With manual A/C and body computer
	M71 F59 h	arness	(F54)	ECM (Terminal No. 77) (QR25DE)
			(F54)	ECM (Terminal No. 78) (VQ35DE)
	M12 B2 B	ody harness	B16)	Fuel level sensor unit and fuel pump (fuel level sensor, fuel tank temperature sensor) (Terminal No. E)
	(M2)(R1) h	arness	R2	Vanit mirror lamp LH
			R2	Homelink [®] universal transceiver
		•	R3	Spot lamp
	•		R5	Sunroof motor assembly
	•		R6	Auto anti-dazzling inside mirror
	F	ront door	R7	Vanity mirror lamp RH
	M9 D1 h	arness LH	D4	Door mirror LH
	•		D5	Door mirror remote control switch (Terminal No. 1)
A/			D 6	Main power window and door lock/unlock switch (Terminal No. 19) (With left front only power window anti-pinch system)
∨ lext page			D7)	Main power window and door lock/unlock switch (Terminal No. 11) (With left and right front power window anti-pinch system)
	•		D9	Trunk lid opener switch
			(D50)	Front dor key cylinder switch LH

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Preceding page		CONNECTOR NUMBER	CONNECT TO
		(M34)	A/T device (Terminal No. 2) (Overdrive control switch)
		— <u>(M35</u>)	Air bag diagnosis sensor unit (Terminal No. 2)
		(M37)	Heated seat switch LH
		M38	Power socket
Body ground		— (M39)	Air mix door motor (With automatic A/C)
•		(M40)	Mode door motor
•		(M41)	Fan switch
•		(M42)	Rear window defogger switch
•		M49	A/C auto amp. (With auto A/C) (Terminal Nos. 8 and 14)
•		(M50)	A/C auto amp. (With auto A/C) (Terminal No. 32)
		(M51)	A/C control unit (With manual A/C or heater only)
			Intake sensor
•		(M55)	Hazard switch
•		(M56)	Cigarette lighter socket
		M58	Intake door motor
			Glove box lamp
•			Fan control amp. (With auto A/C)
•	Front do	or (M76)	Heated seat switch RH
	M75 D101 harness	RH (D104)	Door mirror RH
		(D105)	Front power window switch RH (Terminal No. 19) (With left front only power window anti-pinch system)
		(D106)	Front power window switch RH (Terminal No. 7) (With left and right front power window anti-pinch system)

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ENGINE ROOM LH HARNESS



		CONNECTOR NUMBER	CONNECT TO
E29 M10	Main harness	(M35)	Air bag diagnosis sensor unit (Shield wire) (Terminal No.16)

Body ground		CONNECTOR NUMBER	CONNECT TO
	E28 M7 Main harness	(M49)	A/C auto amp. (With auto A/C) (Canada only)
		(E2)	Front fog lamp LH
		(E5)	Hood switch
Q ^(E15)		(E11)	Headlamp LH (High)
Body ground	(E12)	Front combination lamp LH	
		(E13)	Headlamp LH (Low)
		(E16)	Brake fluid level switch
		(E23)	Wiper motor
		(E34)	Clutch interlock switch (With M/T)
		(E39)	BCM (Body control module) (Terminal No. 8)

Body ground

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ENGINE ROOM RH HARNESS



	CONNECTOR NUMBER	CONNECT TO
	(E101)	Front fog lamp RH
	(E103)	Daytime light control unit (Canada only) (Terminal No. 13)
	 (E103)	Daytime light control unit (Canada only) (Terminal No. 14)
Q ^(E115)	(E104)	Daytime light control unit (Canada only) (Terminal No. 16)
Body ground	 (E106)	Washer level switch
	(E107)	Headlamp RH (Low)
	(E109)	Front combination lamp RH
	E110	Headlamp RH (High)
	E113	Cooling fan motor 1
	(E114)	Cooling fan motor 2
	 (E121)	IPDM E/R (Terminal No. 45)
	(E123)	IPDM E/R [Cooling fan relay-2 (low-relay)] (Terminal No. 14)

Body ground	CONNECTOR NUMBER	CONNECT TO
	(E112)	Generator

Body ground

	CONNECTOR NUMBER	CONNECT TO
•	(E125)	ABS actuator and electric unit (Control unit) (Terminal No. 16)
	(E125)	ABS actuator and electric unit (Control unit) (Terminal No. 19)

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ENGINE CONTROL HARNESS (QR25DE)



	Main harness	CONNECTOR NUMBER	CONNECT TO
		M22)	Data link connector (Terminal No. 5)
		F 9	Camshaft position sensor (PHASE)
		(F11)	Crankshaft position sensor (POS)
(F14)		(F22)	Heated oxygen sensor 1 (Front)
Engine ground		(F23)	Heated oxygen sensor 2 (Rear)
	J/C-4	(F50)	Electric throttle control actuator (Throttle position sensor, throttle motor) (Shield wire)
•	J/C-5	(F54)	ECM (Terminal No. 59)
		(F54)	ECM (Terminal No. 60)
		(F57)	TCM (Terminal No. 25)
		(F57)	TCM (Terminal No. 48)

J/C : Joint connector

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ine ground	CONNECTOR NUMBER	CONNECT TO
•	(F5)	Ignition coil No. 1 (With power transistor)
	(F6)	Ignition coil No. 2 (With power transistor)
	F7	Ignition coil No. 4 (With power transistor)
Q ^(F16)		Ignition coil No. 3 (With power transistor)
e ground	(F21)	Condenser-2
-	(F29)	Park/neutral position (PNP) switch (Terminal No. 2) (With A/T)
	(F42)	Park/neutral position (PNP) switch (Terminal No. 2) (With M/T)
	(F54)	ECM (Terminal No. 106)
	(F42)	Park/neutral position (PNP) switch (Terminal No. 2) (With M/ ECM (Terminal No. 106)
	(F54)	ECM (Terminal No. 108)
	CONNECTOR NUMBER	ECM (Terminal No. 108) CONNECT TO

Engine ground

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ENGINE CONTROL HARNESS (VQ35DE)



		CONNECTOR NUMBER	CONNECT TO
[Main harness	(M22)	Data link connector (Terminal No. 5)
	•	(F11)	Crankshaft position sensor
	•	(F12)	Heated oxygen sensor 2 (Rear) (Bank 2)
(F14) (F14)	•	(F13)	Heated oxygen sensor 2 (Rear) (Bank 1)
Engine ground		F23	Camshaft position sensor (PHASE) (Bank 2)
		(F48)	Camshaft position sensor (PHASE) (Bank 1)
		(F54)	ECM (Terminal No. 48)
		(F54)	ECM (Terminal No. 57)
	•	(F57)	TCM (Terminal No. 25)
	L	(F57)	TCM (Terminal No. 48)



Next page

WKIA0086E



Preceding page		CONNECTOR NUMBER	CONNECT TO
	•	F6	Ignition coil No. 2 (With power transistor)
	•	F7	Ignition coil No. 4 (With power transistor)
		F8	Ignition coil No. 6 (With power transistor)
(F16)	•	F21	Condenser-2
Engine ground		(F54)	ECM (Terminal No. 107)
		CONNECTOR NUMBER	CONNECT TO
	•	(F29)	Park/neutral position (PNP) switch (Terminal No. 2) (With A/T)
\setminus	•	(F42)	Park/neutral possition (PNP) switch (Terminal No. 2) (With M/T)
V	•	(F54)	ECM (Terminal No. 106)
(F17) (F17)	Engine control	(F54)	ECM (Terminal No. 108)
Engine ground	ine ground	(F202)	Ignition coil No. 1 (With power transistor)
		(F203)	Ignition coil No. 3 (With power transistor)
		(F204)	Ignition coil No. 5 (With power transistor)

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WKIA0087E

BODY HARNESS





CONNECTOR NUMBER	CONNECT TO
(B9)	Air bag diagnosis sensor unit (Shield wire) (Terminal No. 44) (With side air bags)



Body ground



Body ground

WKIA0088E

BODY NO. 2 HARNESS



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



Body ground

		CONNECTOR NUMBER	CONNECT TO
[B110	Seat belt buckle switch RH
- ·	d Rear door fi106 (0301) harness RH	(B111)	Heated seat RH
		B127)	Bose speaker amplifier
		(B129)	High mounted stop lamp (Without rear air spoiler, with Bose audio)
Body ground		(B303)	Rear power window switch RH

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Revision: May 2004

WKIA0089E



CONNECTOR NUMBER	CONNECT TO
(B201)	Rear window defogger (-)



WKIA0090E
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 LH (Engine Compartment)
- Engine Room Harness RH (Engine Compartment)
- Engine Control Harness (QR25DE)
- Engine Control Harness (VQ35DE)
- Body Harness
- Body No. 2 Harness

To use the grid reference

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

CONNECTOR SYMBOL

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

Connector type	Water p	proof type	Standa	ard type	- H
Connector type	Male	Female	Male	Female	
Cavity: Less than 4					
 Relay connector 		ملاسك			
• Cavity: From 5 to 8	\bigcirc		\bigcirc		J
Cavity: More than 9	\bigcirc	\bigcirc	\bigcirc	\bigcirc	PG
Ground terminal etc.	-		Ø	2	

G2 E1 B/6 : ASCD ACTUATOR
Connector color/Cavity
Connector number
 Grid reference
SEL252V

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PFP:24010

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1) - : Body ground	W/2 : Blower motor	BR/4 : Blower motor resistor (with manual A/C)	W/4 : Fan control amp. (with auto A/C)	B/2 : Sunload sensor (with auto A/C)	BR/20 : Joint connector-3) W/10 : To (EI3)	8) W/10 : To (8r@)) W/18 : To (BIO4) W/6 : To (F38)) W/24 : To (F59)	2) BR/2 : Tweeter RH	ⓐ W/16 ∶ To €103	a) W/10 : To (502)	() W/8 : To (bit)	W/6 : Heated seat switch RH														the commentance control offer more in the	se the ECM to have diagnostic trouble codes.	se connectors except in the case of working OW of TROUBLE DIAGNOSES in EC and AT	
3	(§)	<u>ل</u> ع	(Ĕ) N	3	3	(¥)	ل ق س	(¥)	*	*	5	(E)	(E)		4														0+ 000	ot allu nay cat	sct the DRK FL	
: Intake sensor (with auto A/C) E3	: A/T device E	: Air bag diagnosis sensor unit	• Heated seat switch I H	. Power socket	• Air mix door motor (with auto A/C)		· Ean ewitch (with manual A/C or	heater only)	: Rear window defogger switch F3	: Audio unit F:	: Audio unit F1	: Audio unit F3	: (Not used) F2	: (Not used) F2	: Antenna amplifier	: A/C auto amp. (with auto A/C)	: A/C auto amp. (with auto A/C)	: A/C control unit (with manual A/C or	neater only)	: Thermo control amplifier (with auto A/C)	: Intake sensor (with manual A/C)	: Trunk lid opener cancel switch	: Hazard switch	: Cigarette lighter	: Body ground	: Intake door motor	: Glove box lamp	: Front passenger air bag module		Failure to do so n	Do not disconne according to W(sections.
3) W/2	€ W/12) Y/28	- M/6	B/2		e w 9	W/F		@ W/6	01/W (€) W/6) W/16) W/4) B/2) W/2) GY/20) GY/16) W/12) W/3) W/2) W/2) W/8) B/2	-	a) W/3	BR/2) Y/4	`			
3	4 (§)							5 5	8 (4)	8 (4)	₩ (4)	(¥)	W W	2 4	₹	₩ (₹)	(Nei	W2:		S S S	3 W2	W2	W25) ((¥) (୍ୟୁର୍ଣ୍ଣ) (ସୁ	38) 389	يو) يوار) (9 <u>)</u>	J			
: Tweeter LH D;	: To R1 (without vanity mirror D ^z	iamps) E ² : To R1 (with vanity mirror lamps) _D	: Fuse block (J/B)	: Fuse block (J/B) E4	: Illumination control switch	: TCS ON/OFF switch (with TCS)A3 C2	: To E20	: To ^{D2}	: To (9)	: To (E29) D;	: To B1 EC	: To ^{(B2}) E	: Heated seat relay	: Security indicator lamp	: Auto light sensor (with auto lights) D2	: Joint connector-1	: Joint connector-2 F3	: BCM (Body control module) E	: BCM (Body control module)	: BCM (Body control module) D:	: BCM (Body control module) D(: Data link connector E3	: Combination meter	: Combination meter E4	: Ignition key illumination D	: Key switch and key lock solenoid \mathbf{D}_2^{\prime}	: Immobilizer control unit E3	: Combination switch	: Combination switch	: Combination switch	: Shift lock control unit (with A/T)	: In-vehicle sensor (with auto A/C)
A2 (M1) BR/2	A2 (M2) W/6	A2 (M2) W/8	B2 (M3) W/8	B2 * (M4) W/16	A3 (M5) W/3	A3 (ME) GY/6	A3 M7 W/18	A2 (M8) W/16	A2 (M9) W/12	A4 (M10) Y/4	A3 (M1) W/16	A3 (M12) W/16	B3 (M13) L/4	B1 (M14) BR/2	B1 (M15) W/3	B2 (MI6) BR/20	B2 (M17) P/20	B4 M18 BR/24	B3 (MI9) W/16	B3 (M20) W/16	B3 (M21) W/12	B3 (M22) W/16	C3 (M23) W/24	C4 (M24) BR/24	C2 (M25) B/2	C2 (M26) W/4	C2 (M27) W/8	C4 (M28) W/16	C4 M29 Y/6	C3 (M30) GY/8	C1 (M31) GY/10	C4 (M32) W/2

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																												*. Do arrest of some succession of the source of some sources	The sure to connect and lock the connectors securely arter repair work. Failure for do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors excent in the case of working	according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT	sections.
	: Ambient sensor	: Front fog lamp LH	: Horn (low)	: Crash zone sensor	: Hood switch	: Fuse and fusible link box	: Horn relay (inside fuse and fusible link box)	: Fusible link box (battery)	: Fusible link box (battery)	: Headlamp LH (high)	: Front combination lamp LH	: Headlamp LH (low) (conventional type)	: Headlamp LH (low) (xenon type)	: Body ground	: Body ground	: Brake fluid level switch	: Dropping resistor (with A/T)	: Front wheel sensor LH	: To F33	: To F32	: To (F34)	: To (F35) (with A/T)	: Wiper motor	: Body ground	: To ^(E128)	: To (erz)	: To (E30)				
(E1 B/2	E2 BR/2	E3) B/1	E4 Y/2	E5 GY/2	- EB	H-1) W/3	E9 BR/2	E10 GY/2	(E11) B/2	E12 B/3	(E13) B/2	E13 BR/2	E14) -	E15 -	EI® GY/2	E17 GY/2	E18 BR/2	* E19 GY/9	*E20 B/8	*E21 GY/10	(E22) B/2	E23) GY/6	E24 -	E25 BR/1	E26 GY/1	*E27 SMJ				
	B4	5	D4	B3	ប្ល	D3		03	D2	Ë	D3	ß	03	щ	Е3	F2	Ë	D2	D2	Е2	D2	D2	E2	D2	C C	3	5				

WKIA0356E

Passenger Compartment

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ENGINE ROOM RH HARNESS

3R/2 : Front fog lamp RH	itV/4 : Daytime light control unit (for Canada)	itV/6 : Daytime light control unit (for Canada)	iV/8 : Daytime light control unit (for Canada)	iV/2 : Front washer motor	sR/2 : Washer fluid level sensor	3/2 : Headlamp RH (low) (conventional type)	sR/2 : Headlamp RH (low) (xenon type)	s/1 : Horn (high)	3/3 : Front combination lamp RH	3/2 : Headlamp RH (high)	3/3 : Refrigerant pressure sensor	- : Generator (ground)	iY/4 : Cooling fan motor-1	iV/4 : Cooling fan motor-2	- : Body ground	- : Body ground	itV/2 : Front wheel sensor RH	3/4 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	V/4 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	3/2 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	V/12 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	3V/16 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	V/6 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	V/12 : IPDM E/R (Intelligent Power Distribution Module Engine Room)	3/31 : ABS actuator and electric unit (with ABS or TCS)	- : Body ground	iV/1 : To (E26)	3R/1 : To (E25)	- : Body ground	.MJ : To E25	V10 :To (With ABS or TCS)	V/4 : To (610) (With ABS or TCS)
8	σ	σ	G	G	8	8	8	8	В	В	8	•	σ	σ	•	·	σ	8	×	8	\geq	σ	Ž	Ž	8	•	σ	8		S	Š	S
EION	E102	(E103	E104	(E106	E106	EIO	(E107	E108	(E109	E	E	E112	E113	(E114	E	E116	E117	E118		E120	* (E121)	* E122	E123	E124	E125	E126	(E127	E128	E129	* E130	(E131	(E132
A 4	A2	A2	A3	A3	B 3	B2	B2	B3	B2	A 2	B3	B3	B3	ប្ល	B 2	ö	5 0	С С	ខ	ប្ល	ទ	ប	ខ	ទ	02	ß	D2	D2	D2	D2	5	G2
																														١	VKIA03	357E

HARNESS

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

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E2 *(E31) GY/5 : Mass air flow sensor	E3 * (F32) B/8 : To (E20)	E3 * F33) GY/9 : To (E19)	E3 * F34) GY/10 : To (E21)	E3 (F3) B/2 : To (E2) (with A/T)	E2 (F36) GY/2 : Vehicle speed sensor	D3 (F37) B/3 : Turbine revolution sensor (with A/T)	D3 (F30) B/3 : Revolution sensor (with A/T)	E2 (F3) - : Battery (positive)	D3 (F40) - : Fusible link box (battery)	D3 (F41) B/2 : Back-up lamp switch (with M/T)	E3 × (F42) B/2 : Park/neutral position (PNP) switch (with M/T)	C3 * (F30) G/6 : Electric throttle control actuator	F5 * (F51) L/12 : Joint connector-4	G5 * (F52) L/12 : Joint connector-5	G5 × (F34) SMJ : ECM	G5 * (F55) W/12 : To (B105)	G5 \star (F36) W/24 : TCM (transmission control module) (with A/T)	G5 \star (F57) GY/24 : TCM (transmission control module) (with A/T)	G5 * (F58) W/6 : To (M70)	G5 * (F59) W/24 : To (M71)	Engine control sub-harness	$C2 + (F_{101}) B/6$: To (F_{12})	C2 * (FI02) GY/2 : Injector No. 1	C2 * (FIII) GY/2 : Injector No. 2	D1 * (Fill) GY/2 : Injector No. 3	D2 * (FI05) GY/2 : Injector No. 4		*: 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 IROUBLE DIAGNOSES IN EC and AI sections.
//2 : Generator	- : Generator	1 : A/C compressor	2 : Intake valve timing control solenoid valve	1/3 : Ignition coil No. 1 (with power transistor)	t/3 : Ignition coil No. 2 (with power transistor)	1/3 : Ignition coil No. 4 (with power transistor)	1/3 : Ignition coil No. 3 (with power transistor)	3 : Camshaft position sensor (PHASE)	2 : EVAP canister purge volume control solenoid valve	3 : Crankshaft position sensor	6 : To (Fi0)	3/2 : VISA control solenoid valve	- Engine ground	- : Engine ground	- : Engine ground	- : Engine ground	<pre>//2 : Knock sensor</pre>	//1 : Oil pressure switch	1 : Power steering oil pressure switch	<pre>//2 : Condenser 2</pre>	4 : Heated oxygen sensor 1 (Front)	4 : Heated oxygen sensor 2 (Rear)	1/2 : Engine coolant temperature sensor	- : Starter motor	//1 : Starter motor	10 : Park/neutral position (PNP) switch (with A/T)	8 : Terminal cord assembly (with A/T)		
B3 [F] GY/2	- E3	B4 (F3) B/1	B3 * (F4) G/2	B3 * (F5) GY/	C2 * F6 GY/	C3 * (F7) GY/	C3 * F8 GY/	C3 * F9 B/3	D2 * (F10) L/2	D2 * (F1) B/3	C2 * (F12) B/6	D2 (F13) BR/2	B2 * (F14) -	B2 * (F15) -	B2 * F16 -	B2 * (F1) -	D2 F18 GY/2	D1 F19 GV/	D2 (F20) B/1	C2 * (F21) GY/2	C3 * F22 G/4	C3 * F23 L/4	C3 * F24 GY/2	C4 (F27) -	C4 F28 GY/1	D4 * F29 B/10	D4 (F30) B/8		

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					olume control		itrol solenoid			power	ı power	ı power														repair work. Jble codes.	e of working	EC and AI	
ess-1		-	9	5	er purge vo ve	switch	timing cor	ess-2		No. 1 (with	No. 3 (with	No. 5 (with	ess-3		ž											irely after r inostic troi	n the cas		
ol sub-harne	: To F44	Injector No.	Injector No.	Injector No.	EVAP canist solenoid val	Oil pressure	Intake valve	varve (parne	: To F43	: Ignition coil transistor)	Ignition coil	Ignition coil	urarision) ol sub-harne	: To F26	Knock sense											nnectors secu A to have diac	tors except i		
line contro	10) G/8	102 GY/2 :	100 GY/2 :	104 GY/2 :	: 100 L/2	:@ B/1 :	io7 G/2 :	ine contro	201) G/6	202) GV/3	200 GY/3 :	204 GY/3 :	ine contro	301 B/2 :	302 GV/2 :											l lock the column to the ECN	ese connec		
Enç	53 *	C2 ★	₹	D2 *	D2	3 5 5	62 *	Enc	- Б	5	D2 *	D2 *	Ēng	5	5											ect and mav cá	nect th		
o) switch		vith A/T)				-	-	(with A/T)	E	-	ו (T/M ר	⁹) switch		Eront)	í no i	re sensor	(PHASE)	10101	Indio				l module)	l module)		sure to conn ure to do so	not discon	oraing to v tions.	
osition (PNI		assembly (v	sensor			(Ľ	sensor	tion sensor	rsor (with A	ve) xx (battery)	switch (wit	osition (PNI		n sensor 1 (g oil pressu	ition sensor			t 4	5		ssion contro	ssion contro		*: Be Fail	å	acc sec	
Park/neutral n	(with A/T)	Terminal cord	Mass air flow	To E20	To (E19)	To (E22) (with /	Vehicle speed	Turbine revolu	Revolution ser	Battery (positi Fusible link bc	Back-up lamp	Park/neutral p (with M/T)	To F201	Heated oxyge	(Bank 1)	Power steerin	Camshaft pos	(Dallik I) Electric throttl				To (8105)	TCM (transmis	TCM (transmis	(with A/T)	To (M70)	2		
E29 B/10 :		F30 B/8 :	F31 GY/5 :	F32 B/8 :	F33 GY/9 :	F35 B/2 :	F36 GY/2 :	F37 B/3 :	F38 B/3 :	 	F41 B/2 :	F42 B/2 :	F43 G/6 :		5	F46 B/3 :	F48 G/3 :				FEA SM.I .	F55 W/12 :	(F56) W/24 :	F57 GY/24 :		F58) W/6 : M/24 ·	· +7/11 RC1		
• 104	-	D4	F2 *	F2 *	т т 1 1 1 1	3 8	D3	D3	E3	E3 D3	D4	D3*	5 5	ະ 5 ວິ	5	ភ	E2 *	* נו		2 4 2 4	* 25 5	G5 *	G5 ×	G5 *	1	ч 5 5 5 7 7	3		
		sor	imina control solenoid)	en sensor 1 (Front)	do. 2 (with power	Jo. 4 (with power		4o.6 (with power	nic controlled engine	osition sensor	en sensor 2 (Rear)	en sensor 2 (Rear)	đ	p	q	q		solenoid valve	_			sition sensor (PHASE)	nt temperature sensor	lic controlled engine				
: Generator	. Generator	: A/C compress	- Intake valve t	valve (Bank 2	: Heated oxyg((Bank 2)	: Ignition coil N	: lanition coil N	transistor)	: Ignition coil N transistor)	: Front electroi mount	: Crankshaft p	: Heated oxyg((Bank 2)	: Heated oxyg((Bank 1)	: Engine groun	: Engine groun	: Engine groun	: Engine groun	: Injector No. 2	: VIAS control	: Injector No. 4	: Condenser 2	: Injector No. 6	: Camshaft po: (Bank 2)	: Engine coola	: Hear electror mount	: To (F301)	: Starter motor	: Starter motor	
(FI) GY/2		E) (1			(* (F5) B/3	* F6 GY/3	* (F) GV/3		t*F8 GY/3	F10 BR/3	* F11 B/3	(* F12) G/4	* (F13) L/4	* (F14) -	* (F15) -	* (F16) -	• •	* F18 GY/2	E19 B/2	* F20 GY/2	* F21 GY/2	t* F22) GY/2	·× F23) B/3	* ^[24] GY/2	(F25) BH/3	. F26 B/2	- (F27) -	. (F28) GY/1	

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WKIA0115E

BODY HARNESS

 Body ground LH side curtain air bag module Rear window defogger condenser Rear speaker LH (without Bose audio system) Truck room lamp (without Bose audio system) High mounted stop lamp (without rear spoiler and with Bose audio system) Rear speaker RH (with BOSE audio system) Subwoofer LH (with BOSE audio system) To (sis) (with BOSE audio system) Subwoofer LH (with BOSE audio system) To (sis) (stem) Tuck lamp switch and truck release solenoid License lamp LH Truck key cylinder switch Hear combination lamp LH Rear combination lamp RH Joint connector-7 	sure to connect and lock the connectors securely after air work. Failure to do so may cause the ECM to have prostic trouble codes. In the case of the connectors except in the case of king according to WORK FLOW of TROUBLE DIAGNOSES C and AT sections.
D3 013 013 013 D2 020 020 020 072 D3 020 020 020 072 D3 020 020 020 072 D3 020 020 020 072 E2 020 020 072 020 F3 020 020 072 07 F3 020 020 072 07 F3 020 020 074 07 G5 030 087/2 030 087/2 G3 030 083 087/2 04/2 G3 030 087/2 04/2 05/2 <td>. Be s reps in er</td>	. Be s reps in er
 5 : To (mi) 6 : To (mi) 7 : To (33) 3 : Rear window defogger relay 5 Body ground 5 : To (30) 5 : Body ground 5 : To (30) 6 : To (40) 7 : To (40) 8 : To (40) 9 : To (40)	
A2 B1 w/14 A2 * 80 w/14 A2 * 80 w/14 A3 80 w/8 B3 80 w/8 B3 80 w/8 B3 80 w/3 B3 80 w/3 B5 80 w/3	

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BODY NO. 2 HARNESS

 D2 (B10) Y/2 : RH side curtain air bag module A2 * (B11) BR/3 : EVAP control system pressure sensor (QR25DE) A2 * (B11) GY/3 : EVAP control system pressure sensor (VQ35DE) A3 * (B12) G/2 : Vacuum cut valve bypass valve A4 * (B12) B/2 : EVAP canister vent control valve 	 C5 (9.2) GY/2 : Rear wheel sensor RH B5 (9.2) BY/2 : Rear wheel sensor LH C3 (9.2) W/2 : Subwoofer RH (with BOSE audio system) B4 (9.2) GY/8 : Bose Speaker Amp. B2 (9.3) B/24 : Bose Speaker Amp. B2 (9.3) W/2 : High mounted stop lamp (without rear spoiler and with BOS audio system) C2 (9.3) W/2 : Truck room lamp (with BOSE audio system) B2 (9.3) W/8 : To (8.2) (with BOSE audio system) 	 * : 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.
: To (E132) : To (M68) : To (M69) : To (F55)	 To (wo) Body ground Front door switch RH Front door switch RH Heated seat switch RH Heated seat switch RH Front RH side air bag module Air bag diagnosis sensor unit RH side air bag (satellite) sensor Front RH seatbelt pre-tensionor Rear door switch RH Body ground 	
32 (80) W/4 32 (80) W/10 32 (80) W/10 32 (80) W/16 54 (80) W/12 55 [*] (80) W/12	24 (10) W/8 (10) W/8 (10) W/8 (10) W/3 (10) W/1	

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ROOM LAMP HARNESS

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FRONT DOOR LH HARNESS

 (f) W12 : To (f) (f) W12 : To (f) (g) W22 : Front door speaker LH (g) W33 : Man power vindow and door lock witch first only power vindow anti-pinch system (g) W33 : Man power vindow and door lock witch first only power vindow anti-pinch system (g) W34 : Trunk lid opener switch (g) W35 : To (fig) (g) W35 : To (fig) power vindow switch RH (g) W35 : To (fig) power vindow switch RH (g) W37 : Front door speaker RH (g) W37 : To rot power vindow switch RH (g) W37 : To rot power vindow switch RH (With left and fight power			
 Wr/16: To (m) Wr/2: Front door speaker LH Wr/3: Or mirror LH Wr/3: Nain power window and door lock/unlock switch (With left and right power window anti-pinch system) Wr/6: Front power window motor LH Wr/7: Front power window motor LH Wr/7: Tront goore switch Wr/7: Front door lock actuator LH Wr/7: Front door lock actuator LH Wr/7: Tront power window switch FH (Wth left and right power window ant-pinch system) Wr/7: Tront power window switch FH (Wth left and right power window ant-pinch system) Wr/7: Tront power window switch FH (Wth left and right power window ant-pinch system) Wr/7: Tront power window switch FH (Wth left and right not system) Wr/7: Tront power window switch FH (Wth left and right nop work window ant-pinch system) Wr/7: Tro	D1 W/12	: To (M9)	
 WW2: Front door speaker LH WW3: Door mirror LH WW3: Main power window and door lock/unlock switch (With left front only power window and power window and of power window and point lock/unlock switch (With left front only power window and power window and power window and point lock/unlock switch (With left front only power window and power window and power window motor LH BRG W vr: Front power window motor LH BRG W vr: Trunk lid openers switch W vr: Trunk door lock actuator LH W vr: Trunk door lock witch RH W vr: Trunk door lock witch RH W vr: Trunk power window switch RH (With lift front power window switch RH (With lift front power window switch RH (With lift front power window switch RH (With lift mot vr: Trunk power window switch RH (With lift front p		: To (M8)	
 WWS : Door mirror LH WW10 : Shor mirror switch WW3 : Alian power window and door lock/unlock switch (Winh left and right from toor Ly power window and poor lock/unlock switch (Winh left and right from toor Ly power window motor LH BR/6 WW4 : Trunk lid opener switch WW5 : To (W) WW5 : To (W) WW5 : To (W) WW5 : To (W) WW6 : To (W) WW7 : Tront door lock actuator LH WW8 : To (W) WW7 : To (W) WW7 : To (W) WW8 : To (W) WW9 : To (W) WW8 : To (W) WW8 : To (W) WW8 : To (W) WW9 : To (W) WW9 : To (W) WW8 : To (W) WW8 : To (W) WW9 : To mirror PH WW9 : To mirror PH WW12 : Front door speaker RH WW9 : To more window switch RH (With left and front only power window anti-pinch system) WW9 : To mirror W100 windich RH (With left and front only power window anti-pinch system) WW2 : To mirror power window switch RH (With left and front only power window anti-pinch system) WW2 : To mirror system WW2 : To (W) WW3 : Explamp RH WW4 : Front door lock actua	D3) W/2	: Front door speaker LH	
 W/10 : Door mirror switch W/10 : Main power window and door icourtication of the power window and piper switch (With left rand right power window math-pinch system) W/10 : Main power window motor LH BR/6 W/10 : To rim power window motor LH BR/6 W/10 : To rim W/10 : To rim W/11 : Tonk lid opener switch W/12 : Step lamp LH Tont door lock actuator LH W/12 : Front door speakar RH W/12 : Front door speakar RH W/12 : Front power window switch RH W/18 : To rim W/19 : Tong power window switch RH W/19 : Front power window switch RH W/19 : Front power window and horin system) W/10 : To rim W/10 : To rim W/12 : Front power window switch RH W/18 : Front power window and horin system) W/19 : Front power window switch RH W/19 : Front power window switch RH W/19 : Front power window and horin system) W/10 : To rim W/10 : To rim power window switch RH W/19 : Front power window and horin system) W/10 : To rim power window and horin system) W/10 : To rim power window and horin system) W/10 : To rim power window and horin system) W/10 : To rim power window and horin system) W/12 : Front power window and horin system) W/19 : Front power window and horin system) W/2 : Front power	D4) W/8	: Door mirror LH	
 (a) W/3 : Main power window and door lock/unlock switch (With left front only power window ant-pinch system) (b) W/16 : Main power window and of door lock/unlock switch (With left and right front only power window ant-pinch system) (c) W/4 : Trunk lid opener switch (c) W/6 : To (m) (c) W/7 : Front door lock actuator LH (c) W/8 : To (m) (c) W/8 : To (m) window anti-pinch system) (c) W/8 : To (m) power window anti-pinch system) (c) W/8 : To (m) power window anti-pinch system) (c) W/8 : To (m) (c) W/8 : To (m) power window anti-pinch system) (c) W/8 : To (m) power window anti-pinch system) (c) W/8 : To (m) (c) W/8 :		: Door mirror switch	
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 (P) BR/18: Main power window and door lock writch (With left and right more vindow anti-pinch system) (P) Wor : Front power window motor LH BR/8 (P) Wv2 : Torki ld opener switch (P) Wv3 : Torkii (P) Wv3 : Torkii door speaker PH (P) Wv3 : Torkii door speaker PH (P) Wv3 : Torkii door switch RH (Wth left and right power window switch RH (Wth left and right power window anti-pinch system) (P) Wv2 : Front door switch RH (Wth left and right power window anti-pinch system) (P) Wv2 : Torkii (P) Wv3 : Torkiii (P) Wv3 : Torkiii (P) Wv3 : Torkiii<	□7) W/16	: Main power window and door lock/unlock switch (With left front only power window anti-pinch system)	
 (h) W or : Front power window motor LH BR/6 (h) W/4 : Tunk lid opener switch (h) W/4 : Tunk lid opener switch (h) W/2 : Step lamp LH Front door LH sub-harness (h) W/2 : To (h) (h) W/2 : Front door lock actuator LH (h) W/2 : Front door speaker RH (h) W/2 : Front power window switch RH (h) W/2 : Front power window switch RH (h) W/3 : Front power window switch RH (h) W/3 : Front power window switch RH (h) W/3 : Front power window switch RH (With left and right power window anti-pinch system) (h) W/2 : Front power window switch RH (With left and right power window power window anti-pinch system) (h) W/2 : From BW (B) (H) (H) (H)	D7) BR/16	: Main power window and door lock/unlock switch (With left and right front power window anti-pinch system)	
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(ii) QY/4 : Front door lock actuator LH	(D50) W/6	: To (DIO)	
ONT DOOR RH HARNESS Image: W/8 : To Image: To Image	(D51) GY/4	: Front door lock actuator LH	
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 (m) W/2 : Front power window switch RH (With left and right front power window anti-pinch system) (m) W/2 : To (m) (m) W/2 : Step lamp RH Front door RH sub-harness (m) W/6 : To (m) (m) W/6 : To (m)<	BH/6	anti-pinch system)	
D109 W/2 : To (015) D109 W/2 : Step lamp RH Front door RH sub-harness D109 D199 W/6 : To (0108) D159 GY/4 : Front door lock actuator RH	€107 W/2	: Front power window switch RH (With left and right front power window anti-pinch system)	
Image: W/2 : Step lamp RH Front door RH sub-harness Image: W/6 : To (Image: T	0108 W/2		
Front door RH sub-harness DIS9 W/6 : To 0108 DIS9 GY/4 :Front door lock actuator RH DI02 DI02 DI03 DI03 DI07 DI08 DI07 DI08 DI07 DI08 DI05 DI50 DI50	©109 W/2	: Step lamp RH	
(0159) W/6 :To (0108) (0159) (0102) (0103) (0107) (0103) (0107) (0108) (0103) (0107) (0108) (0103) (0107) (0108) (0103) (0107) (0108) (0109) (0150)	Front doo	r RH sub-harness	
(D102) (D103) (D103) (D103) (D103) (D103) (D104) (D105) (D	0150 W/6		
	©15) GY/4	:Front door lock actuator RH (D102) (D103) (D107) (D108) (D151) (D109) (D150)	
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REAR DOOR LH HARNESS

REAR DOOR RH HARNESS

Wiring Diagram Codes (Cell Codes)

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	—— B
1STSIG	AT	A/T 1st Signal	
2NDSIG	AT	A/T 2nd Signal	
3RDSIG	AT	A/T 3rd Signal	
4THSIG	AT	A/T 4th Signal	
A/C,A	ATC	Auto Air Conditioner	
A/C,M	MTC	Manual Air Conditioner	D
A/LIGHT	LT	Auto Light Control	
ABS	BRC	Anti-Lock Brake System	
APPS1	EC	Accelerator Pedal Position Sensor	L
APPS2	EC	Accelerator Pedal Position Sensor	
APPS3	EC	Accelerator Pedal Position Sensor	
ASCBOF	EC	ASCD Brake Switch	I
ASC/BS	EC	ASCD Brake Switch	
ASCIND	EC	ASCD Indicator	G
ASC/SW	EC	ASCD Steering Switch	0
AT/IND	DI	A/T Indicator Lamp	
AUDIO	AV	Audio	—
B/COMP	DI	Board Computer	
BAF/TS	AT	A/T Fluid Temperature Sensor and TCM Power Supply	
BACK/L	LT	Back-up Lamp	
BRK/SW	EC	Brake Switch	
BYPS/V	EC	Vacuum Cut Valve Bypass Valve	
CAN	AT	CAN Communication Line	J
CAN	EC	CAN Communication Line	
CAN	LAN	CAN System	
CHARGE	SC	Charging System	PG
CHIME	DI	Warning Chime	
CIGAR	WW	Cigarette Lighter	
COOL/F	EC	Cooling Fan Control	L
D/LOCK	BL	Power Door Lock	
DEF	GW	Rear Window Defogger	
DLC	EC	Data Link Connector	M
DTRL	LT	Headlamp - With Daytime Light System	
ECM/PW	EC	ECM Power Supply for Back-Up	
ECTS	EC	Engine Coolant Temperature Sensor	
ENGSS	AT	Engine Speed Signal	
EMNT	EC	Engine Mount	
ETC1	EC	Electric Throttle Control Function	
ETC2	EC	Throttle Control Motor Relay	
ETC3	EC	Throttle Control Motor	
F/FOG	LT	Front Fog Lamp	
F/PUMP	EC	Fuel Pump	
FLS1	EC	Fuel Level Sensor Function (SLOSH)	
FLS2	EC	Fuel Level Sensor Circuit	
FLS3	EC	Fuel Level Sensor Circuit (Ground Signal)	
FTS	AT	A/T Fluid Temperature Sensor	
FTTS	EC	Fuel tank Temperature Sensor	

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FUEL	EC	Fuel Injection System Function
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 2)
H/LAMP	LT	Headlamp
H/MIRR	GW	Door Mirror with Heated Mirror
HEATER	MTC	Heater System
HO2S1	EC	Heated Oxygen Sensor 1 (Front)
HO2S1H	EC	Heated Oxygen Sensor 1 (Front) Heater
HO2S2	EC	Heated Oxygen Sensor 2 (Rear)
HO2S2H	EC	Heated Oxygen Sensor 2 (Rear) Heater
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
ILL	LT	Illumination
INJECT	EC	Injector
INT/L	LT	Spot, Vanity Mirror and Trunk Room Lamps
IVC	EC	Intake Valve Timing Control Solenoid Valve
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
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
LPSV	AT	Line Pressure Solenoid Valve
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp., Oil and Fuel Gauges
MIL	EC	Malfunction Indicator Lamp
MIRROR	GW	Door Mirror
NATS	BL	Nissan Anti-Theft System
NONDTC	AT	Non-detective Items
O2H1B1	EC	Heated Oxygen Sensor 1(Front) Heater Bank 1
O2H1B2	EC	Heated Oxygen Sensor 1 (Front) Heater Bank 2
O2H2B1	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2
O2S1B1	EC	Heated Oxygen Sensor 1 (Front) Bank 1
O2S1B2	EC	Heated Oxygen Sensor 1 (Front) Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 (Rear) Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 (Rear) Bank 2
OVRCSV	AT	Over Run Clutch Solenoid Valve
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 Oil Pressure Sensor	
PST/SW	EC	Power Steering Oil Pressure Switch	A
REMOTE	AV	Audio (Remote Control Switch)	
ROOM/L	LT	Interior Room Lamp	
RP/SEN	EC	Refrigerant Pressure Sensor	B
S/SIG	EC	Start Signal	
SEAT	SE	Power Seat	
SEN/PW	EC	Sensor Power Supply	C
SHIFT	AT	A/T Shift Lock System	
SROOF	RF	Sunroof	
SRS	SRS	Supplemental Restraint System	D
SSV/A	AT	Shift Solenoid Valve A	
SSV/B	AT	Shift Solenoid Valve B	
START	SC	Starting System	
STEP/L	LT	Step Lamp	
STOP/L	LT	Stop Lamp	
TLID	BL	Trunk Lid Opener	
TAIL/L	LT	Parking, License and Tail Lamps	
TCCSIG	AT	A/T TCC Signal (Lock Up)	G
TCS	BRC	Traction Control System	
TCV	AT	Torque Converter Clutch Solenoid Valve	
TPS	AT	Throttle Position Sensor	Н
TPS1	EC	Throttle Position Sensor	
TPS2	EC	Throttle Position Sensor	
TPS3	EC	Throttle Position Sensor	
TRNSCV	BL	HOMELINK® Universal Transceiver	
TRSA/T	AT	Turbine Revolution Sensor	
TURN	LT	Turn Signal and Hazard Warning Lamps	J
VEHSEC	BL	Vehicle Security System	
VENT/V	EC	EVAP Canister Vent Control Valve	
VIAS	EC	Variable Air Induction Control System	PG
VIAS/V	EC	Variable Air Induction Control System Valve	
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)	
VSSMTR	AT	Vehicle Speed Sensor Meter	L
W/ANT	AV	Audio Antenna	
WARN	DI	Warning Lamps	
WINDOW	GW	Power Window	M
WIPER	WW	Front Wiper and Washer	

ELECTRICAL UNITS LOCATION

Electrical Units Location ENGINE COMPARTMENT PFP:25230

EKS002LH

WKIA0124E

ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT

WKIA0125E

WKIA0131E

ELECTRICAL UNITS LOCATION

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.

Circuit Breaker (Built Into BCM)

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

A circuit breaker is used for the following systems:

- Power seat
- Power windows
- Power door locks
- Remote keyless entry system

M

Ε

F

Н

J

ΡG

L

EKS002LK

HARNESS CONNECTOR

Description HARNESS CONNECTOR (TAB-LOCKING TYPE)

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

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

CAUTION:

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

[Example]

PFP:B4341

EKS002LL

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]

В

С

D

JOINT CONNECTOR (J/C) Terminal Arrangement

PFP:B4341

EKS002LM

(Brown)

Joint connector-2 (M17)

		\sim
Joint	connector-3	(M66)
		·····

d	1	1	1	2	2	2	2	3	3	3	þ
	4	4	4	4	4	4	4	4	4	4	

Joint connector-7 (B37)

											_
С	1	-	1	2	2	2	3	3	3	3	
	4	4	4	4	4	4	5	5	5	5	

(Blue)

1

WKIA0126E

ELECTRICAL UNITS

EKS002LN

А

В

Terminal Arrangement

SMJ (SUPER MULTIPLE JUNCTION) Terminal Arrangement

ENGINE ROOM HARNESS LH

ENGINE ROOM HARNESS RH

WKIA0128E

PFP:B4341

EKS002LO

STANDARDIZED RELAY

STANDARDIZED RELAY

PFP:25230

EKS002LP

А

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.

STANDARDIZED RELAY

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

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

LEL638

FUSE BLOCK-JUNCTION BOX(J/B)

FUSE BLOCK-JUNCTION BOX(J/B) **Terminal Arrangement** To main harness 3P 2P 1P 12P 11P 10P 9P 8P 7P 6P 5P 4P (M4)) (мз) 16P 15P 14P 13P 'N 6N 5N 4N

PFP:24350

EKS002LQ

А

I

FUSE AND FUSIBLE LINK BOX Terminal Arrangement

EKS002LR

24 - 31: FUSE f - m: FUSBILE LINK

WKIA0130E