SECTION BCS **BODY CONTROL SYSTEM** С

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PRECAUTIONS

PFP:00001

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system may include seat belt switch inputs and dual stage front air bag modules. If equipped with dual stage front air bag modules, the SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

Wiring Diagrams and Trouble Diagnosis

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When you read wiring diagrams, refer to the following:

- GI-13, "How to Read Wiring Diagrams", and
- PG-9, "POWER SUPPLY ROUTING".

When you perform trouble diagnosis, refer to the following:

- GI-9, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES", and
- GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident".

Check for any Service bulletins before servicing the vehicle.

PREPARATION

PREPARATION			PFP:00002
Special Service Tools			EKS006WX
The actual shapes of Kent-Moore tools Tool number (Kent-Moore No.) Tool name	may differ from those of special service too Description	ols illustrated here.	
(J-43241) Remote keyless entry tester		Used to test keyfobs	
*: Special tool or commercial equivalent	LEL946A		
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Description

The following systems are controlled by the smart entrance control unit.

- Warning chime
- Rear window defogger timer
- Power window
- Power door lock
- Remote keyless entry
- Vehicle security
- Room lamp

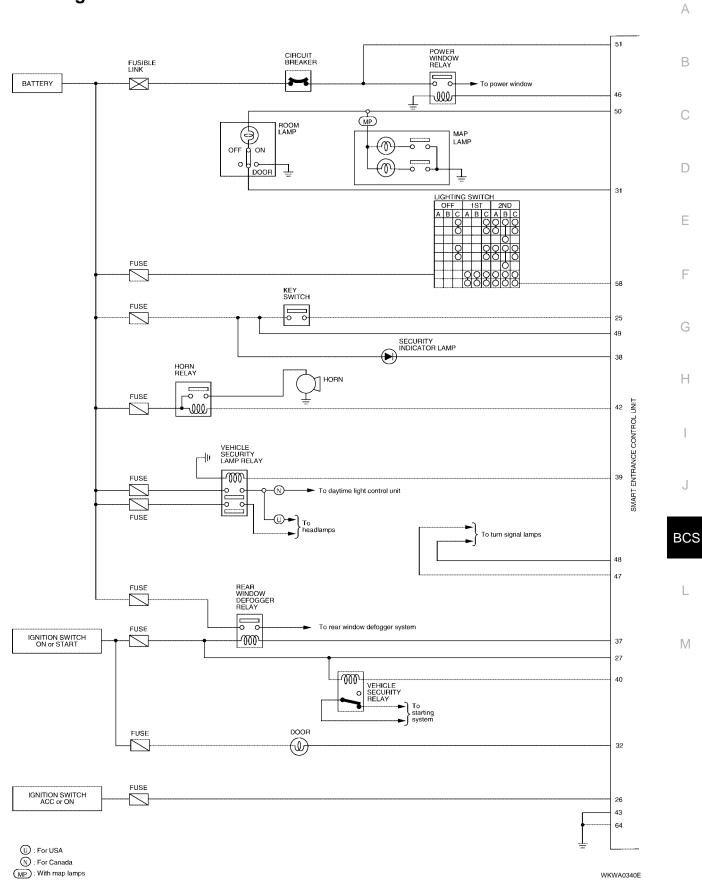
For detailed description and wiring diagrams, refer to the relevant pages for the each system. The control unit receives data from the switches and sensors to control their corresponding system relays and actuators.

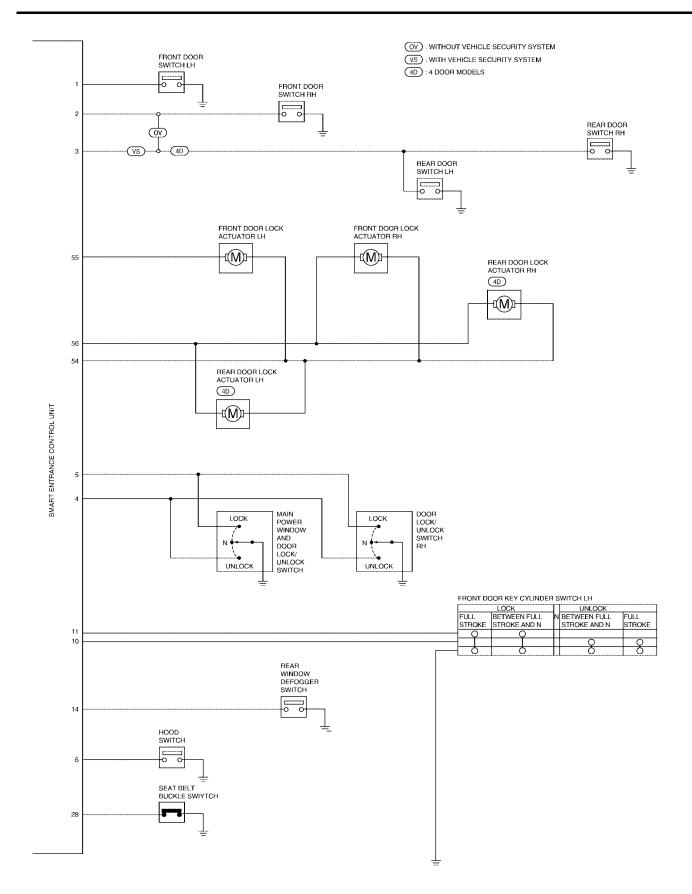
System	Input	Output
Warning chime	Key switch (Insert) Ignition switch (ON) Lighting switch (1st) Seat belt buckle switch Front door switch LH	Warning chime
Rear window defogger timer	Ignition switch (ON or START) Rear window defogger switch	Rear window defogger relay
Power window	Ignition switch (ON) Door switches	Power window relay
Power door lock	Door lock/unlock switch Key switch (Insert) Door switches Door key cylinder switches	Door lock actuator
Remote keyless entry	Key switch (Insert) Ignition switch (ACC) Door switches Antenna (keyfob signal) Door lock/unlock switches	Horn relay Vehicle security lamp relay Door lock actuator Room lamp
Vehicle security	Ignition switch (ACC, ON) Door switches Hood switch Door lock/unlock switches Door key cylinder switch (Lock/unlock)	Horn relay Vehicle security lamp relay Vehicle security relay (Starter interrupt) Security indicator lamp
Room lamp	Door switches Ignition switch Key switch (Insert)	Room lamp

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Circuit Diagram





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Terminal	Wire	ce Control Unit Inspe			Voltage (V)
No.	color	Connections	Operated condition		(Approx.)
1	G/R	Front door switch LH	$OFF\ (Closed) \to ON\ (Open)$		$5V \rightarrow 0V$
2	G/B	Front door switch RH	OFF (Closed) \rightarrow ON (Open)		$5V \to 0V$
3	R/B	Rear door switch LH and RH, back door switch	$OFF\ (Closed) \to ON\ (Open)$		5V ightarrow 0V
4	BR	Main power window and door lock/unlock switch, door lock/ unlock switch RH	$Neutral \to Unlock$		5V ightarrow 0V
5	LG/R	Main power window and door lock/unlock switch, door lock/ unlock switch RH	$Neutral \rightarrow Lock$		5V ightarrow 0V
6	B/P	Hood switch	$ON\;(Open)\toOFF\;(Closed)$		$0V \to 5V$
10	Y/R	Front door key cylinder unlock switch LH or back door key cylin- der unlock switch	OFF (Neutral) \rightarrow ON (Unlock)		5V ightarrow 0V
11	Y	Front door key cylinder lock switch LH or back door key cylin- der lock switch	OFF (Neutral) \rightarrow ON (Lock)		5V ightarrow 0V
14	G/B	Rear window defogger switch	$OFF \to ON$		5V ightarrow 0V
25	W/G	Ignition key switch (Insert)	Key inserted \rightarrow Key removed from ignition	key cylinder	$12V \rightarrow 0V$
26	G	Ignition switch (ACC)	ACC position		12V
27	G/W	Ignition switch (ON)	Ignition key is in ON position		12V
28	B/P	Seat belt buckle switch	Unfastened \rightarrow Fastened (Ignition key is in ON position)		$0V \to 12V$
31	R/B	Room lamp	When interior lamp is operated using keyfob. (Interior lamp switch in DOOR position)		$12V \rightarrow 0V$
32	R/B	Door ajar indicator lamp	$OFF \rightarrow ON$ (Ignition key is in ON position)		$12V \rightarrow 0V$
37	G/R	Rear window defogger relay	$OFF \rightarrow ON$ (Ignition key is in ON position)		$12V \rightarrow 0V$
38	G/OR	Security indicator lamp	Turns off \rightarrow Turns on		$12V \to 0V$
39	R	Vehicle security lamp relay	When panic alarm is operated using keyfob or when alarm is activated		$12V \rightarrow 0V$
40	R/W	Vehicle security relay (Starter cut)	$OFF \to ON$ (Ignition key is in ON position)		$12V \rightarrow 0V$
42	LG/R	Horn relay	When panic alarm is operated using keyfob or when alarm is activated		$12V \rightarrow 0V$
43	В	Ground	_		_
46	G/W	Power window relay	Ignition key is in ON position \rightarrow 45 seconds key is turned to OFF position	after ignition	$12V \rightarrow 0V$
47	G/Y	Turn signal lamp LH	When doors are locked using keyfob		$12V \rightarrow 0V$
48	G/R	Turn signal lamp RH	When doors are locked using keyfob		$12V \rightarrow 0V$
49	G	Power source (Fuse)	—		12V
50	R/G	Battery saver (Room lamp)	Turns off \rightarrow Turns on		$12V \rightarrow 0V$
51	W/R	Power source (C/B)	_		12V
		Front door lock actuator LH and	Lock		12V
54	L	RH, rear door lock actuator LH and RH	Main power window and door lock/unlock switch, door lock/unlock switch RH	Neutral, unlock	0V
5 F	C AM	Front door look actuator I H	Main power window and door lock/unlock	Unlock	12V
55	G/W	Front door lock actuator LH	switch, door lock/unlock switch RH	Neutral, lock	0V

Terminal No.	Wire color	Connections	Operated condition		Voltage (V) (Approx.)
56 L/R	I/R door lock actuator I H and RH	Main power window and door lock/unlock switch, door lock/unlock switch RH	Unlock	12V	
			Neutral, lock	0V	
58	L/R	Lighting switch	1ST, 2ND positions: $ON \rightarrow OFF$		$12V \rightarrow 0V$
64	В	Ground			_

WARNING CHIME

WARNING CHIME PFP:248	14
Description	5X1
When the vehicle is not equipped with power door locks, the following inputs, in the proper combination, w activate the warning chime unit:	rill B
Key switch	
Combination switch (lighting switch)	
Ignition switch	С
Seat belt buckle switch LH	
Front door switch LH	_
For detailed description and wiring diagrams for each of these components, refer to <u>DI-36, "MODELS WITH</u> <u>OUT POWER DOOR LOCKS"</u> and <u>DI-36, "MODELS WITH POWER DOOR LOCKS"</u> .	<u>-</u>
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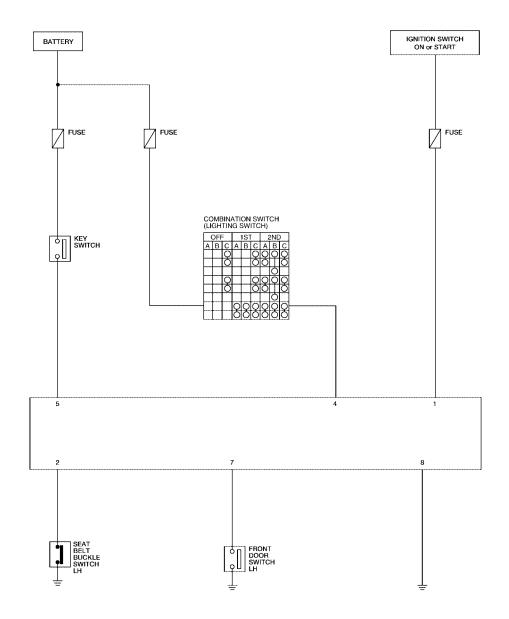
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WARNING CHIME

Circuit Diagram

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WARNING CHIME

Terminal No.	Wire color	Connections	Operated condition	Voltage (Approx.)
1 G/W		Ignition switch in OFF or ACC position	0V	
	G/W	Ignition switch input	Ignition switch in ON or START position	12V
2	B/P Seat belt buckle switch LH input	Seat belt unfastened (switch closed)	0V	
2			Seat belt fastened (switch open)	12V
4 L/R	L/R Combination switch (lighting switch) input	Lighting switch OFF	0V	
		switch) input Lighting switch in 1st or 2nd position (ON)	12V	
5		Kay awitch input	Key removed from switch	0V
	W/G	Key switch input	Key inserted in switch	12V
	7 0/D		Door open (switch closed)	0V
7	G/R	Front door switch LH input	Door closed (switch open)	12V
8	В	Ground	_	0V

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