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PRECAUTIONS

PRECAUTIONS PFP:00001

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

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 includes seat belt switch inputs and 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 Man-

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

Wiring Diagrams and Trouble Diagnosis

EKS0035W

When you read wiring diagrams, refer to the following:

- GI-13, "How to Read Wiring Diagrams", and
- PG-8, "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			EKS0035X
The actual shapes of Kent-Moore tools	may differ from those of special service tools	illustrated here.	
Tool number (Kent-Moore No.) Tool name	Description		_
(J-43241) Remote keyless entry tester	100 of 10	Used to test keyfobs	
*: Special tool or commercial equivalent	LEL946A		
. Opecial tool of commercial equivalent	·		

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SMART ENTRANCE CONTROL UNIT

PFP:28596

Description

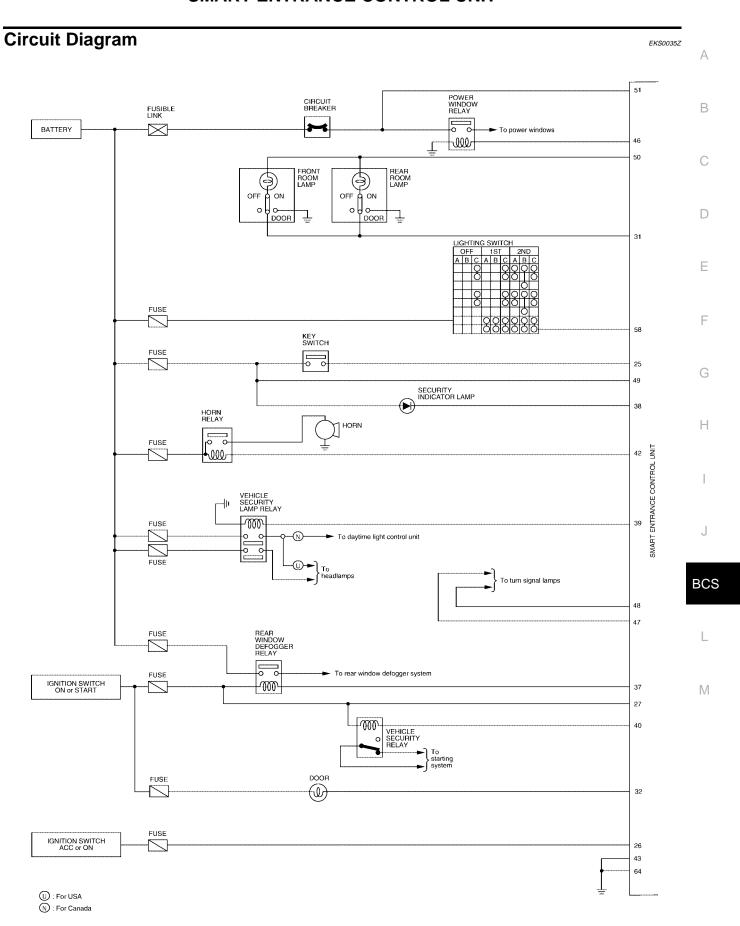
The following systems are controlled by the smart entrance control unit.

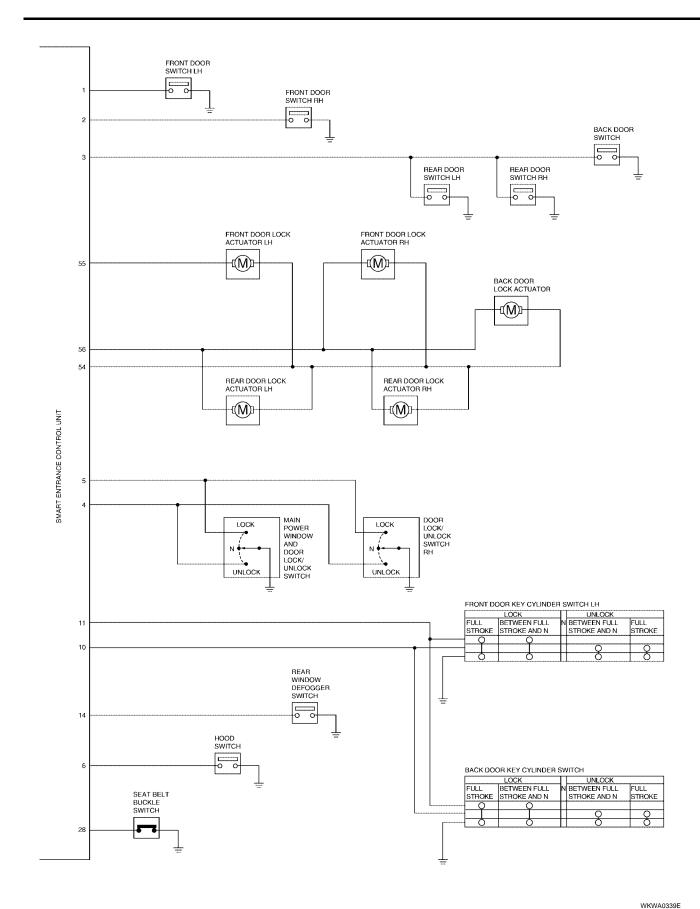
- Warning chime
- Rear window defogger timer
- Power window
- Power door lock
- Remote keyless entry
- Vehicle security
- Room lamp

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

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





Smart Entrance Control Unit Inspection Table

Terminal No.	Wire color	Connections	Operated condition		Voltage (V) (Approx.)
1	G/R	Front door switch LH	OFF (Closed) → ON (Open)		$5V \rightarrow 0V$
2	G/B	Front door switch RH	OFF (Closed) → ON (Open)		$5V \rightarrow 0V$
3	R/B	Rear door switch LH and RH, back door switch	OFF (Closed) → ON (Open)		$5V \rightarrow 0V$
4	BR	Main power window and door lock/unlock switch, door lock/ unlock switch RH	Neutral → Unlock		$5V \rightarrow 0V$
5	LG/R	Main power window and door lock/unlock switch, door lock/ unlock switch RH	Neutral → Lock		$5V \rightarrow 0V$
6	B/P	Hood switch	$ON\ (Open) o OFF\ (Closed)$		$0V \rightarrow 5V$
10	Y/R	Front door key cylinder unlock switch LH or back door key cylinder unlock switch	OFF (Neutral) → ON (Unlock)		$5V \rightarrow 0V$
11	Υ	Front door key cylinder lock switch LH or back door key cylin- der lock switch	OFF (Neutral) → ON (Lock)		$5V \rightarrow 0V$
14	G/B	Rear window defogger switch	$OFF \to ON$		$5\text{V} \rightarrow 0\text{V}$
25	W/G	Ignition key switch (Insert)	Key inserted \rightarrow Key removed from ignition	key cylinder	12V → 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 → 12V
31	R/B	Room lamp	When interior lamp is operated using keyfob. (Interior lamp switch in DOOR position)		12V → 0V
32	R/B	Door ajar indicator lamp	$OFF \to ON$ (Ignition key is in ON position)		12V → 0V
37	G/R	Rear window defogger relay	$OFF \to ON$ (Ignition key is in ON position)		12V → 0V
38	G/OR	Security indicator lamp	Turns off \rightarrow Turns on		12V → 0V
39	R	Vehicle security lamp relay	When panic alarm is operated using keyfob or when alarm is activated		12V → 0V
40	R/W	Vehicle security relay (Starter cut)	$OFF \to ON$ (Ignition key is in ON position)		12V → 0V
42	LG/R	Horn relay	When panic alarm is operated using keyfob or when alarm is activated		12V → 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	s after ignition	12V → 0V
47	GY	Turn signal lamp LH	When doors are locked using keyfob		$12V \rightarrow 0V$
48	P/B	Turn signal lamp RH	When doors are locked using keyfob		12V → 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	Main power window and door lock/unlock	12V	
54	L	RH, rear door lock actuator LH and RH	switch, door lock/unlock switch RH	Neutral, unlock	OV
55	G/W Front door lock actuator LH Main power window and door lock/unlock switch, door lock/unlock switch RH	Unlock	12V		
		switch, door lock/unlock switch RH	Neutral, lock	0V	
56	L/R	Front door lock actuator RH, rear door lock actuator LH and RH, back door lock actuator	Main power window and door lock/unlock switch, door lock/unlock switch RH	Unlock Neutral, lock	12V 0V

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Terminal No.	Wire color	Connections	Operated condition	Voltage (V) (Approx.)
58	L/R	Lighting switch	1ST, 2ND positions: ON → OFF	$12V \rightarrow 0V$
64	В	Ground	_	_

WARNING CHIME

WARNING CHIME PFP:24814 **Description** When the vehicle is not equipped with power door locks, the following inputs, in the proper combination, will activate the warning chime unit: Key switch Combination switch (lighting switch) Ignition switch Seat belt buckle switch LH Front door switch LH For detailed description and wiring diagrams for each of these components, refer to DI-31, "MODELS WITH-OUT POWER DOOR LOCKS" and DI-34, "MODELS WITHOUT POWER DOOR LOCKS"

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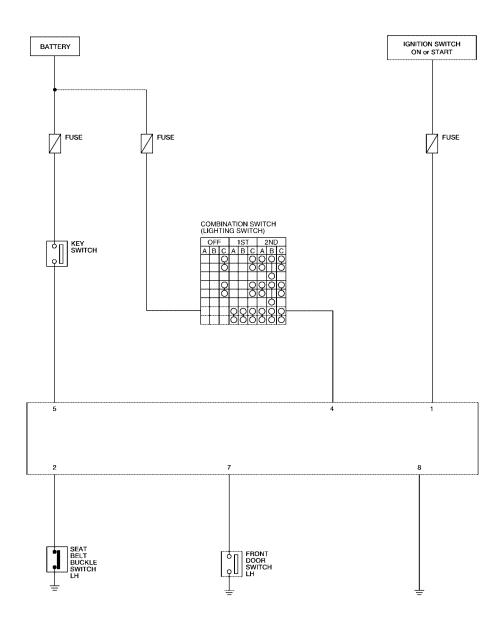
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Circuit Diagram



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WARNING CHIME

Varning Chime Unit Inspection Table			EKS003	
Terminal No.	Wire color	Connections	Operated condition	Voltage (Approx.)
	CAM	G/W Ignition switch input	Ignition switch in OFF or ACC position	0V
1	G/VV		Ignition switch in ON or START position	12V
0	D/D	B/P Seat belt buckle switch LH input	Seat belt unfastened (switch closed)	0V
2	B/P		Seat belt fastened (switch open)	12V
4 L/R	_/R Combination switch (lighting switch) input	Lighting switch OFF	0V	
		Lighting switch in 1st or 2nd position (ON)	12V	
5 W/G	WO 14 11 1	Key removed from switch	0V	
	W/G	W/G Key switch input	Key inserted in switch	12V
7 G/R	C/D	G/R Front door switch LH input	Door open (switch closed)	0V
	G/R		Door closed (switch open)	12V
8	В	Ground	_	0V

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WARNING CHIME