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PRECAUTIONS

PRECAUTIONS PFP:00001

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

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 connec-

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 too	ols may differ from those of special service to	ols illustrated here.	
Tool number (Kent-Moore No.) Tool name	Description		
(J-43241) Remote keyless entry tester		Used to test keyfobs	
	LEL946A		
*: Special tool or commercial equivale	ent		

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SMART ENTRANCE CONTROL UNIT

PFP:28596

Description

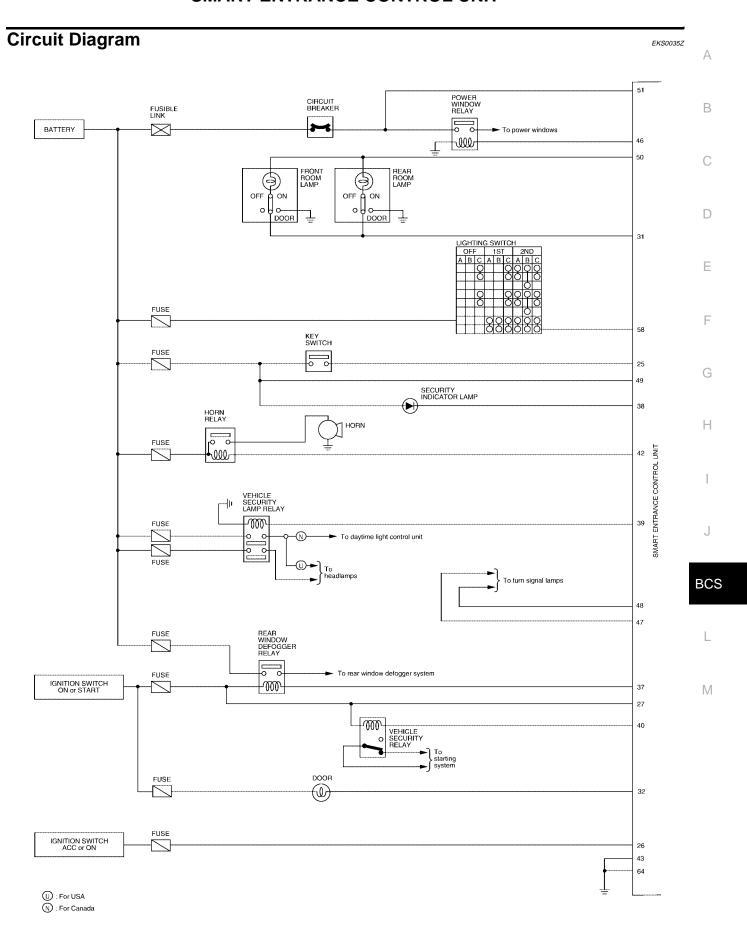
The following systems are controlled by the smart entrance control unit.

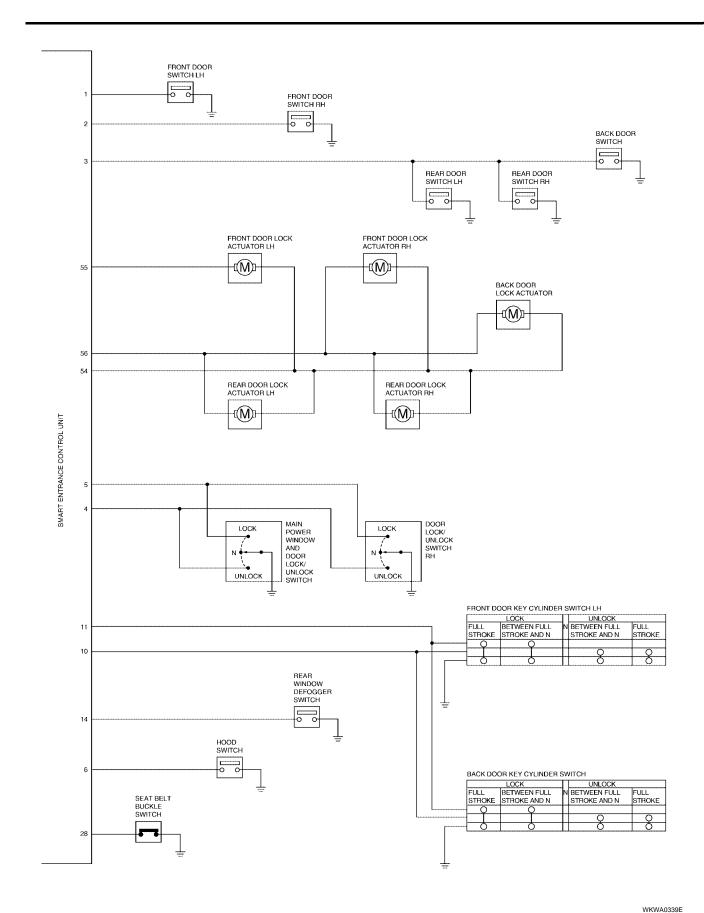
- Warning chime
- Rear window defogger timer
- Power window
- Power door lock
- Remote keyless entry
- Vehicle security
- Room lamp

actuators.

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

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





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)		$5\text{V} \rightarrow 0\text{V}$
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	Neutral → Unlock	
5	LG/R	Main power window and door lock/unlock switch, door lock/ unlock switch RH	Neutral → Lock		5V → 0V
6	B/P	Hood switch	ON (Open) → OFF (Closed)		$0\text{V} \rightarrow 5\text{V}$
10	Y/R	Front door key cylinder unlock switch LH or back door key cylin- der 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	$OFF \to ON$		$5V \rightarrow 0V$
25	W/G	Ignition key switch (Insert)	$\text{Key inserted} \rightarrow \text{Key removed from ignition}$	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 → 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		$12V \rightarrow 0V$
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 after ignition key is turned to OFF position		12V → 0V
47	GY	Turn signal lamp LH	When doors are locked using keyfob		12V → 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	0V
55	G/W	Front door lock actuator LH		Unlock	12V
55	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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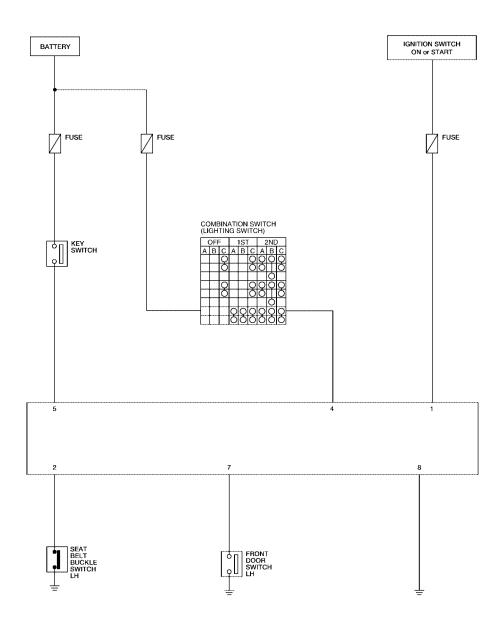
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Circuit Diagram



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WARNING CHIME

larning Chime Unit Inspection Table			EKS00		
Terminal No.	Wire color	Connections	Operated condition	Voltage (Approx.)	
1	G/W	Ignition quitab input	Ignition switch in OFF or ACC position	0V	
		G/W Ignition switch input	Ignition switch in ON or START position	12V	
2 B	D/D	2 B/P	B/P Seat belt buckle switch LH input	Seat belt unfastened (switch closed)	0V
	2			Seat belt fastened (switch open)	12V
4 L/	I /D	Combination switch (lighting	Lighting switch OFF	0V	
	4	L/K	switch) input	Lighting switch in 1st or 2nd position (ON)	12V
5	W/G k	Kay awitah input	Key removed from switch	0V	
		W/G Key switch input	Key inserted in switch	12V	
7	7	G/R Front door switch LH input	Front door quitob I H input	Door open (switch closed)	0V
	G/K		Door closed (switch open)	12V	
8	В	Ground	_	0V	

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WARNING CHIME