

SECTION

BCS

BODY CONTROL SYSTEM

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PRECAUTIONS

PRECAUTIONS

PFP:00011

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS0079N

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. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

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 harnesses or harness connectors.

Wiring Diagrams and Trouble Diagnosis

EKS0079O

When reading wiring diagrams, refer to the following:

- [GI-14, "How to Read Wiring Diagrams"](#) in GI section
- [PG-2, "POWER SUPPLY ROUTING"](#) for power distribution circuit in PG section

When performing trouble diagnosis, refer to the following:

- [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in PG section
- [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in PG section

TIME CONTROL UNIT

TIME CONTROL UNIT

PFP:28491

Description OUTLINE

EKS002ZU

The time control unit totally controls the following body electrical system operations.

- Power door lock
- Warning chime
- Rear window defogger
- Interior lamp
- Seat belt warning

INPUT/OUTPUT

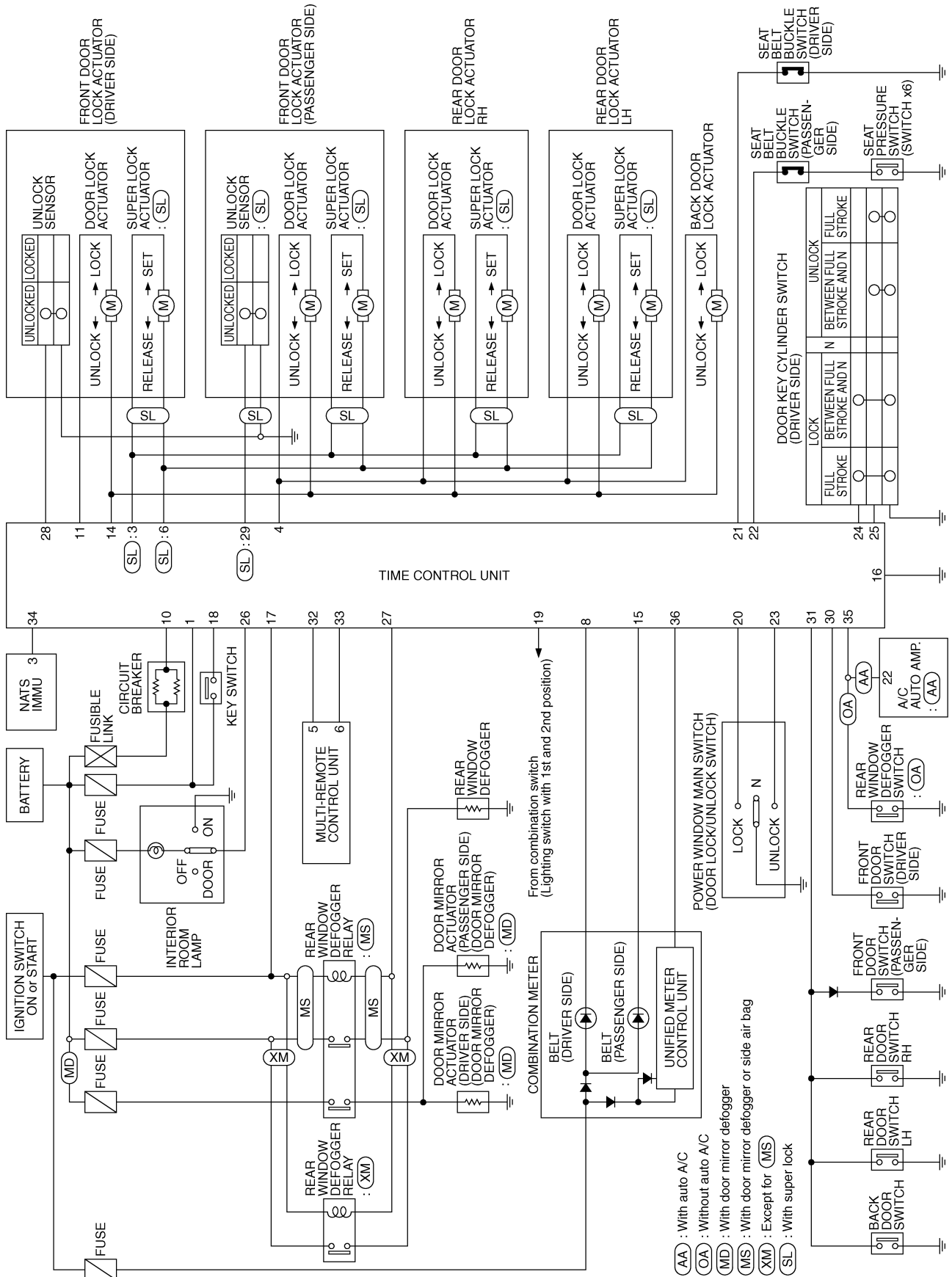
System	Input	Output
Power door lock	Door lock and unlock switch Door switches Door unlock sensor Door key cylinder switch (driver side)	Door lock actuators
Warning chime	Key switch (Insert) Ignition switch (ON) Lighting switch (1st) Front door switch (driver side) Door unlock sensor	Warning chime (located in time control unit)
Rear window defogger	Ignition switch (ON) Rear window defogger switch	Rear window defogger relay
Interior lamp	Door switches Door unlock sensor Ignition switch (ON) Key switch (Insert)	Interior lamp
Seat belt warning	Seat belt buckle switch (driver side) Seat belt buckle switch (passenger side) Combination meter (vehicle speed signal)	Warning chime (located in time control unit) Combination meter (Seat belt warning lamp)

BCS

TIME CONTROL UNIT

Schematic

EKS002ZV

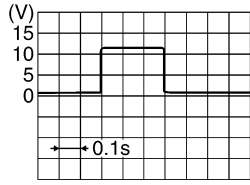
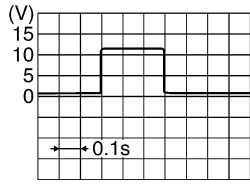
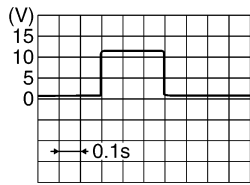
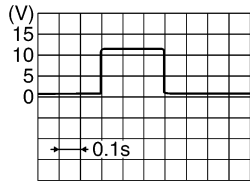
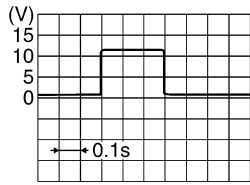


TKWA1515E

TIME CONTROL UNIT

Time Control Unit Inspection Table

EKS002ZW

Terminal No.	Wire color	Connections	Operation condition		Voltage (Approximate values)
1	L	Power source (Fuse)	—		12V
3 *1	L/Y	Super lock actuator	Door key cylinder switch	Free	0V
				Released	 <p>SKIA9232E</p>
4	G/R	Passenger and rear doors lock actuator	Door lock/unlock switch	Free	0V
				Unlocked	 <p>SKIA9232E</p>
6 *1	Y/R	Super lock actuator	Door key cylinder switch	Free	0V
				Set	 <p>SKIA9232E</p>
8	R	Combination meter [seat belt (driver side)]	Seat belt warning lamp (driver side) is illuminated (seat belt is unfastened).		12V
			Seat belt warning lamp (driver side) is not illuminated (seat belt is fastened).		0V
10	W	Power source (C/B)	—		12V
11	SB	Front door lock actuator (driver side)	Door lock/unlock switch	Free	0V
				Unlocked	 <p>SKIA9232E</p>
14	R/B	Door lock actuator	Door lock/unlock switch	Free	0V
				Locked	 <p>SKIA9232E</p>

A

B

C

D

E

F

G

H

I

J

BCS

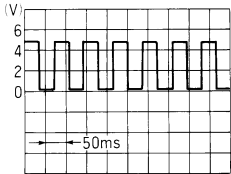
L

M

TIME CONTROL UNIT

Terminal No.	Wire color	Connections	Operation condition	Voltage (Approximate values)
15	W/G	Seat belt warning lamp (passenger side)	Seat belt warning lamp (passenger side) is illuminated (seat belt is unfastened).	12V
			Seat belt warning lamp (passenger side) is not illuminated (seat belt is unfastened).	0V
16	B/R	Ground	—	0V
17	G	Ignition switch (ON)	—	12V
18	W/L	Ignition key switch (Insert)	Key inserted → key removed from Ignition key cylinder	12V → 0V
19	R/L	Lighting switch	1ST, 2ND position: ON → OFF	12V → 0V
20	GY	Door lock/unlock switch	Neutral → Locked	5V → 0V
21	BR/W	Seat belt buckle switch (driver side)	Seat belt buckle switch (driver side) is unfastened.*2	0V
			Seat belt buckle switch (driver side) is fastened.*2	12V
22	G/OR	Seat belt buckle switch (passenger side)	Seat belt buckle switch (passenger side) is unfastened.	0V
			Seat belt buckle switch (passenger side) is fastened.	12V
23	PU	Door lock/unlock switch	Neutral → Door lock/Unlock switch is pushed.	5V → 0V
24	LG/R	Door key cylinder switch (driver side)	OFF (neutral) → ON (locked)	5V → 0V
25	GY/L	Door key cylinder switch (driver side)	OFF (neutral) → ON (unlocked)	5V → 0V
26	R/Y	Interior room lamp	When interior room lamp is operated using remote controller (Lamp switch is "DOOR" position.)	12V → 0V
27	G/W	Rear window defogger relay	OFF → ON (Ignition key is "ON" position.)	12V → 0V
28	Y/G	Door unlock sensor (driver side)	Driver door: Locked → Unlocked	10V → 0V
29*1	Y/L	Door unlock sensor (passenger side)	Passenger door: Locked → Unlocked	5V → 0V
30	SB	Front door switch (driver side)	OFF (closed) → ON (open)	5V → 0V
31	R/W	Passenger and rear doors switch	OFF (closed) → ON (open)	5V → 0V
32	OR	Multi-remote control unit	Remote controller lock button is pushed. (Ignition switch is not "ON" position.)	0V → 5V
33	P/L	Multi-remote control unit	Remote controller unlock button is pushed. (Ignition switch is not "ON" position.)	0V → 5V
34	B/Y	NATS release signal	Ignition switch ON→OFF	0V → 5V

TIME CONTROL UNIT

Terminal No.	Wire color	Connections	Operation condition	Voltage (Approximate values)
35	LG/B	Rear window defogger switch	Rear window defogger switch is pushed.	0V
			Rear window defogger switch is not pushed.	5V
36	*3	Combination meter	When the vehicle speed is approx. 40 km (25 MPH).	

NOTE:

- *1: With super lock system.
- *2: When seat pressure switch is ON.
- *3: Wire color is different depending on vehicle. Each wire color is as follows:

Vehicle	Wire color
A/T models	L/B
M/T models	L/Y

TIME CONTROL UNIT
