CONTROL MODULE PIN-OUT INFORMATION

General Electronic Module

▽	Pin	Description and Characteristic
I	CA86-16	SET SWITCH: OPEN CIRCUIT / GROUND
O	CA87-17	GLOBAL CLOSE REQUEST: 20 mS PULSED SIGNAL
I	IP5-03	SEDAN (EXCEPT JAPAN AND S. KOREA): EXTERNAL ANTENNA
I	IP5-23	REMOTE RF SIGNAL
SG	IP6-01	LOGIC GROUND: GROUND
B+	JB172-01	BATTERY POWER SUPPLY (LOCKING): B+

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

Fig. 14.1

COMPONENTS

Component	Connector(s)	Connector Description	Location
DOOR LATCH – DRIVER	DD3 DD9	8-WAY / BLACK 2-WAY / BLACK	DRIVER DOOR
DOOR SWITCH PACK – DRIVER	DD1	20-WAY / BLACK	DRIVER DOOR CASING
DOOR SWITCH PACK – LH REAR	BL1	8-WAY / BLACK	LH REAR DOOR CASING
DOOR SWITCH PACK – PASSENGER	PD10	8-WAY / BLACK	PASSENGER DOOR CASING
DOOR SWITCH PACK – RH REAR	BR1	8-WAY / BLACK	RH REAR DOOR CASING
GENERAL ELECTRONIC MODULE	CA86 CA87 IP5 IP6 JB172	23-WAY / GREY 23-WAY / GREEN 23-WAY / BROWN 23-WAY / NATURAL 23-WAY / BLUE	BEHIND INSTRUMENT PANEL / RH SIDE
RF MODULE	RC35	3-WAY / BLACK	ROOF CONSOLE
WINDOW MOTOR – DRIVER	DD2	8-WAY / GREY	DRIVER DOOR
WINDOW MOTOR – LH REAR	BL2	8-WAY / GREY	LH REAR DOOR
WINDOW MOTOR – PASSENGER	PD2	8-WAY / GREY	PASSENGER DOOR
WINDOW MOTOR – RH REAR	BR2	8-WAY / GREY	RH REAR DOOR

HARNESS IN-LINE CONNECTORS

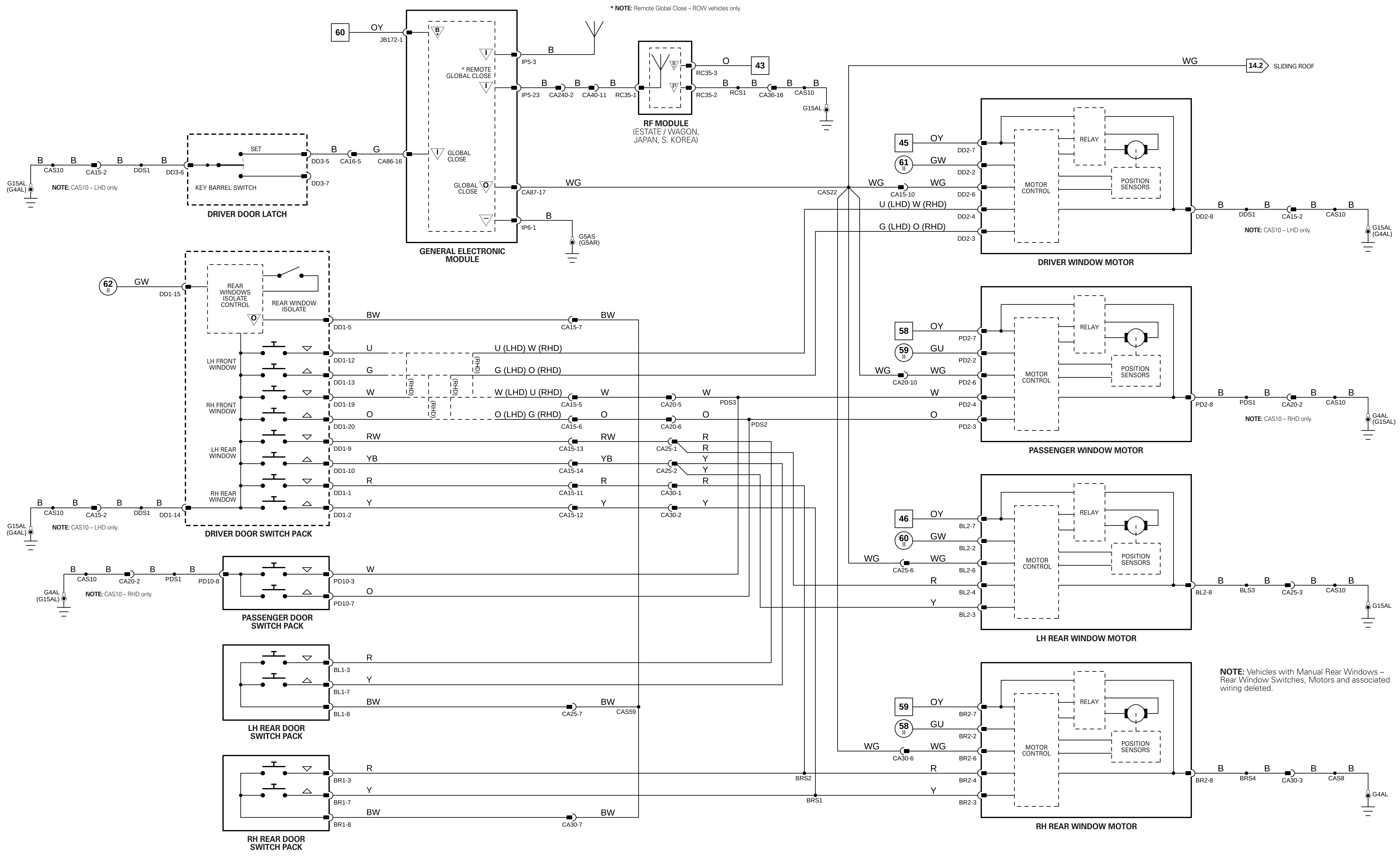
Connector	Connector Description	Location
CA15	20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	DRIVER DOOR / DOOR CASING
CA16	20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	DRIVER DOOR / DOOR CASING
CA20	20-WAY / BLACK / CABIN HARNESS TO PASSENGER DOOR HARNESS	PASSENGER DOOR / DOOR CASING
CA25	14-WAY / NATURAL / CABIN HARNESS TO LH REAR DOOR HARNESS	LH 'B/C' POST / 'B/C' POST TRIM
CA30	14-WAY / NATURAL / CABIN HARNESS TO RH REAR DOOR HARNESS	RH 'B/C' POST / 'B/C' POST TRIM
CA36	16-WAY / GREEN / CABIN HARNESS TO ROOF HARNESS	LH 'A' POST / WINDSHIELD PILLAR
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G5	IP	UPPER RH 'A' POST
G15	CA	LOWER LH 'A' POST

FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



I Input
O Output
B Battery Voltage
P Power Ground
+ Sensor/Signal Supply V
– Sensor/Signal Ground
C CAN
S SCP
D D2B Network
D Serial and Encoded Data

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: August 2003

CONTROL MODULE PIN-OUT INFORMATION

General Electronic Module

▽	Pin	Description and Characteristic
I	CA86-16	SET SWITCH: OPEN CIRCUIT / GROUND
O	CA87-17	GLOBAL CLOSE REQUEST: 20 mS PULSED SIGNAL
O	CA87-20	VEHICLE SPEED SIGNAL: PULSED SIGNAL, 8000 PULSES PER MPH
I	IP5-03	SEDAN (EXCEPT JAPAN AND S. KOREA): EXTERNAL ANTENNA
S	IP5-18	SCP -
S	IP5-19	SCP +
I	IP5-23	REMOTE RF SIGNAL
SG	IP6-01	LOGIC GROUND: GROUND
B+	JB172-01	BATTERY POWER SUPPLY (LOCKING): B+

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

Fig. 14.2

COMPONENTS

Component	Connector(s)	Connector Description	Location
DOOR LATCH – DRIVER	DD3	8-WAY / BLACK	DRIVER DOOR
	DD9	2-WAY / BLACK	
GENERAL ELECTRONIC MODULE	CA86	23-WAY / GREY	BEHIND INSTRUMENT PANEL / RH SIDE
	CA87	23-WAY / GREEN	
	IP5	23-WAY / BROWN	
	IP6	23-WAY / NATURAL	
	JB172	23-WAY / BLUE	
RF MODULE	RC35	3-WAY / BLACK	ROOF CONSOLE
ROOF CONSOLE – PRINTED CIRCUIT BOARD	RC23	20-WAY / WHITE	ROOF CENTER FRONT
ROOF CONSOLE – WITHOUT PRINTED CIRCUIT BOARD	RC30	4-WAY / BLACK	ROOF CENTER FRONT
	RC31	2-WAY / BLACK	
	RC33	4-WAY / BLACK	
	RC34	6-WAY / BLACK	
SLIDING ROOF MODULE	RC14	10-WAY / GREY	ROOF CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA15	20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	DRIVER DOOR / DOOR CASING
CA16	20-WAY / BLACK / CABIN HARNESS TO DRIVER DOOR HARNESS	DRIVER DOOR / DOOR CASING
CA36	16-WAY / GREEN / CABIN HARNESS TO ROOF HARNESS	LH 'A' POST / WINDSHIELD PILLAR
CA40	16-WAY / GREY / CABIN HARNESS TO ROOF HARNESS	RH 'A' POST / WINDSHIELD PILLAR
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G5	IP	UPPER RH 'A' POST
G15	CA	LOWER LH 'A' POST

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O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

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NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

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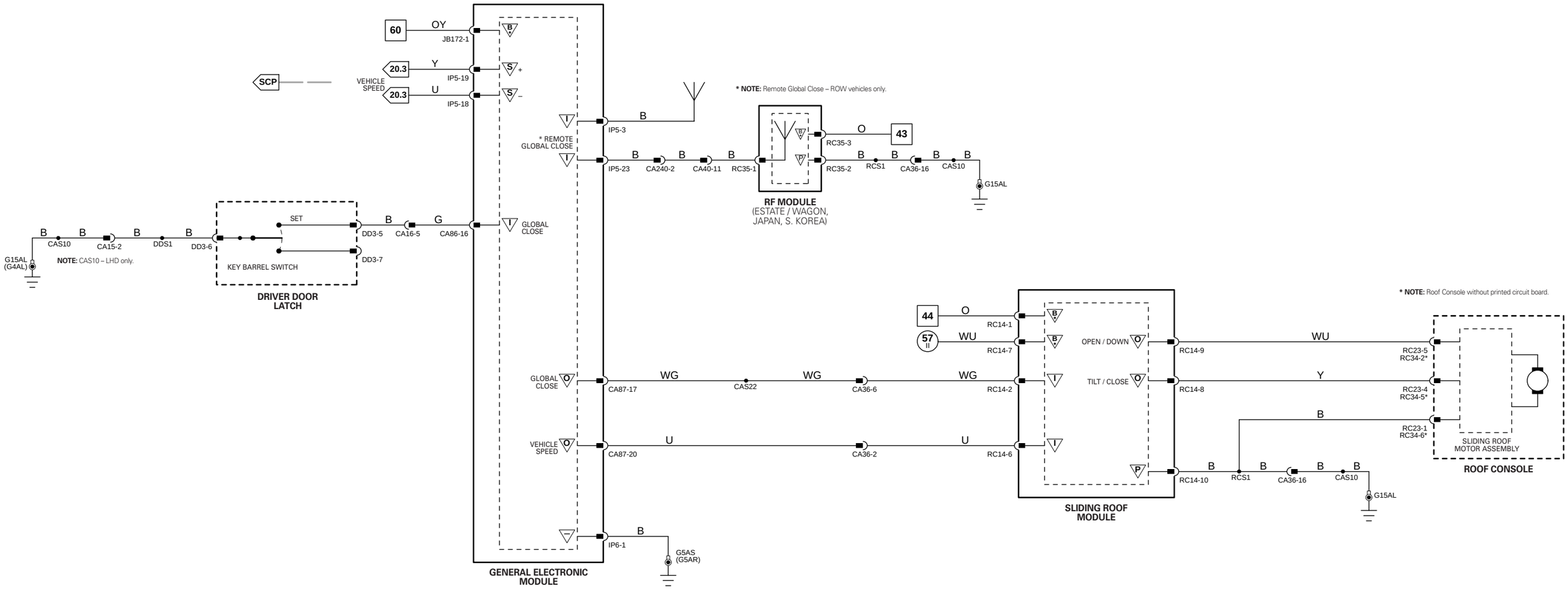

1 → 6	Fig. 01.1	34 → 79	Fig. 01.3	11 II → 31 II	Fig. 01.5	67 B → 76 B	Fig. 01.7	98 E → 107 E	Fig. 01.9	I Input	B Battery Voltage	+ Sensor/Signal Supply V	C CAN	D D2B Network					
7 → 33	Fig. 01.2	1 I → 10 I	Fig. 01.4	32 II → 66 II	Fig. 01.6	77 E → 97 E	Fig. 01.8			O Output	P Power Ground	− Sensor/Signal Ground	S SCP	D Serial and Encoded Data					

VARIANT: Sliding Roof Vehicles
VIN RANGE: All
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