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Section 9

Body, Cab and Accessories

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Precautions

Precautions

Precautions on Body, Cab and Accessories

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Air Bag Warning
Refer to “Air Bag Warning: in Section 00”.

Fastener Caution
Refer to “Fastener Caution: in Section 00”.

Precautions for Body Service
Refer to “Precautions for Body Service: ”.

Fastener Caution for Body Service:
Refer to “Fastener Caution for Body Service: ”.

Cautions in Body Electrical System Servicing
Refer to “Cautions in Body Electrical System Servicing: in Section 9A”.

Precautions for Wiring System
Refer to “Precautions for Wiring System: in Section 9A”.

Precautions for Body Service

S5JB0A9000002

⚠ WARNING

For vehicles equipped with a Supplemental Restraint (Air Bag) System:
When servicing vehicle body, if shock may be applied to air bag system component parts, remove those parts beforehand.

Fastener Caution for Body Service

S5JB0A9000003

⚠ CAUTION

- **Fasteners are important attaching parts in that they could affect the performance of vital components and systems, and/or could result in major repair expense. They must be replaced with one of the same part number of with an equivalent part if replacement become necessary.**
- **Do not use a replacement part of lesser quality or substitute a design. Torque values must be used as specified during reassembly to assure proper retention of these parts.**

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Wiring Systems

Precautions

Cautions in Body Electrical System Servicing

S5JB0A9100001

When performing works related to electric systems, observe the cautions described in “Precautions for Electrical Circuit Service: in Section 00” for the purpose of protection of electrical parts and prevention of a fire from occurrence.

Precautions for Wiring System

S5JB0A9100002

⚠ WARNING

(For the vehicles with the Supplemental Restraint System (Air Bags) and/or the Seat Belt Pretensioner System)
Service on or around the air bag system / Seat belt pretensioner system components or their wiring must be performed only by an authorized SUZUKI dealer. Observe all the warnings of the “Air Bag System” and disable the systems before performing the service. Failure to follow the Warnings could result in unintended activation of the systems or could render the systems inoperative. Either of these two conditions may result in severe injury.

⚠ CAUTION

To prevent damage to the electrical/ electronic parts (especially computers or semi-conductors) or to prevent fire:

- When disconnecting the battery terminals, be sure to 1: turn off the ignition switch and all other switches, 2: disconnect the negative (–) terminal wire and then 3: disconnect the positive (+) terminal wire. Connect the wires in the reverse order of disconnecting.
- When disconnecting the connectors, be sure to unlock the connector lock (if equipped) and then pull the connector shells to detach them. Do not pull the wires.
- Connect the connectors by holding the connector shells. Make sure they are securely locked.
- Install the wiring harness securely without any slack.
- When installing parts, make sure the wiring harness is not interfered with or pinched by them.
- Avoid routing the wiring harness near or around a sharp corner or edge of the vehicle body or parts as much as possible. If necessary, protect the wiring harness by winding tape or the like around on it.
- When replacing a fuse, make sure to use the specified capacity fuse. Using a fuse with a larger capacity can cause damage to the electrical parts or a fire.
- Do not handle electrical/ electronic parts (computer, relay, etc.) roughly or drop them.
- Do not expose electrical/ electronic parts to high temperature (Approximately 80 °C (176 °F) or higher) or water.
- Be sure to insert the tester probe (or, if necessary, an appropriate needle or wire designed for the inspection work) into the back side (wiring harness side) of the connector for inspection not to damage or deform the terminal of the connector.

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General Description

Abbreviations

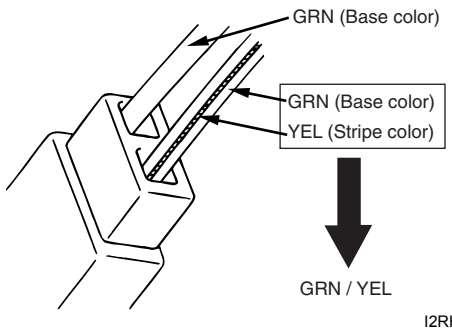
S5JB0A9101002

Abbreviation	Full term	Abbreviation	Full term
2WD	2 wheel drive vehicles	IG	Ignition
4WD	4 wheel drive vehicles	IG COIL	Ignition coil
A/B	Air bag	ILL	Illumination
A/C	Air conditioning	IND	Indicator
A/LEV	Auto leveling	INT	Intermittent
A/T	Automatic transaxle	ISC	Idle speed control
ACC	Accessory	J/B	Junction block
BCM	Body control module	J/C	Joint connector
CAN	Controller area network	L	Left
CKP	Crank shaft position	LED	Light emitting diode
CMP	Cam shaft position	LHD	Left hand drive vehicle
COMB	Combination	LO	Low
DLC	Data link connector	MAP	Manifold absolute pressure
DRL	Daytime running light	M/T	Manual transaxle
DSL	Diesel engine	AMT	Automated manual transmission
ECM	Engine control module	O/D	Over drive
ECT	Engine coolant temperature	P/N	Power/Normal
EGR	Exhaust gas recirculation	P/S	Power steering
ELCM	EVAP leak check module	PSP	Power steering pressure
ESP	Electronic stability program	R	Right
EVAP	Evaporative	RHD	Right hand drive vehicle
FWD	Forward	SDM	Sensing and diagnostic module
HI	High	ST	Starter
HID	High intensity discharge	TCC	Torque converter clutch
HLC	Head light cleaner	TCM	Transmission control module
IAC	Idle air control	VSS	Vehicle speed sensor
IAT	Intake air temperature	VSV	Vacuum switching valve
ICM	Immobilizer control module	5 dr	5 door
IF EQPD	If equipped		

Wire / Connector Color Symbols

S5JB0A9101003

Symbol	Wire / connector Color	Symbol	Wire / connector Color
BLK	Black	ORN	Orange
BLU	Blue	RED	Red
BRN	Brown	WHT	White
GRN	Green	YEL	Yellow
GRY	Gray	PNK	Pink
LT BLU	Light blue	PPL	Purple
LT GRN	Light green	N	Natural



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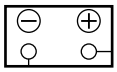
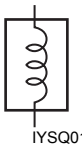
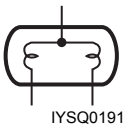
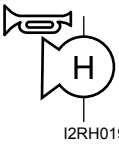
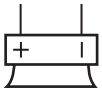
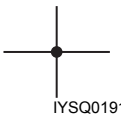
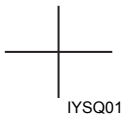
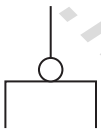
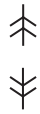
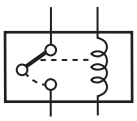
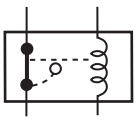
Symbols and Marks

S5JB0A9101004

Battery	Ground		Normal fuse	Slow blow fuse
 I2RH01910910-01	IYSQ01910915-01	IYSQ01910916-01	IYSQ01910917-01	IYSQ01910918-01
Circuit breaker	Coil, Solenoid	Heater	Bulb	
IYSQ01910919-01	 IYSQ01910920-01	IYSQ01910921-01	IYSQ01910922-01	 IYSQ01910923-01
Cigarette lighter	Motor	Pump	Horn	Speaker
IYSQ01910924-01	IYSQ01910925-01	IYSQ01910926-01	 I2RH01910911-01	 IYSQ01910928-01
Buzzer	Chime	Condenser	Thermistor	Reed switch
IYSQ01910929-01	IYSQ01910930-01	IYSQ01910931-01	IYSQ01910932-01	IYSQ01910933-01
Resistance	Variable resistance		Transistor	
IYSQ01910934-01	IYSQ01910935-01	IYSQ01910936-01	IYSQ01910937-01 NPN	IYSQ01910938-01 PNP
Photo transistor	Diode	Zener diode	Light emitting diode	Photo diode
IYSQ01910939-01	IYSQ01910940-01	IYSQ01910941-01	IYSQ01910942-01	IYSQ01910943-01
Piezoelectric element	Harness		Ring terminal	Connector
IYSQ01910944-01	 IYSQ01910945-01 Connected	 IYSQ01910946-01 Not connected	 IYSQ01910947-01	 IYSQ01910948-01
Relay		Switch		
 IYSQ01910949-01 Normal open	 IYSQ01910950-01 Normal closed	IYSQ01910951-01 Open switch	IYSQ01910952-01 Closed switch	

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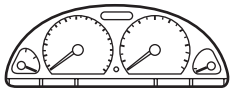
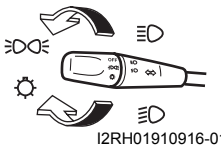
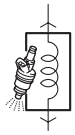
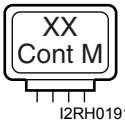
Ignition switch	Keyless entry	Immobilizer system	Combination meter	Lighting switch
I2RH01910912-01	I3JA01910902-01	I5RH01910901-01	 I2RH01910915-01	 I2RH01910916-01
Headlight leveling	Hazard warning light	Front fog light	Rear fog light	Spark plug
I3JA01910904-01	I3JA01910905-01	I3JA01910906-01	I3JA01910907-01	I2RH01910921-01
Radiator fan	Fuel pump	Injector	XX control module	Windshield wiper
I2RH01910922-01	I3JA01910908-01	 I2RH01910924-01	 I2RH01910925-01	I3JA01910909-01
Windshield washer	Rear wiper	Rear washer	Rear defogger	Power window
I3JA01910910-01	I3JA01910911-01	I3JA01910912-01	I2RH01910930-01	I3JA01910913-01
Power door lock	Power mirror	A/B	Pretensioner	Passenger side
I3JA01910914-01	I3JA01910915-01	I3JA01910916-01	I3JA01910917-01	I3JA01910918-01
Driver side	Seat heater	A/C	Power steering	Side air-bag (R)
I3JA01910919-01	I2RH01910938-01	I3JA01910920-01	I3JA01910921-01	I4JA01910901-01
Side air-bag (L)	Side curtain air-bag (R)	Side curtain air bag (L)	Glow plug	
I4JA01910902-01	I5RS0A910958-01	I5RS0A910959-01	I4JA01910903-01	

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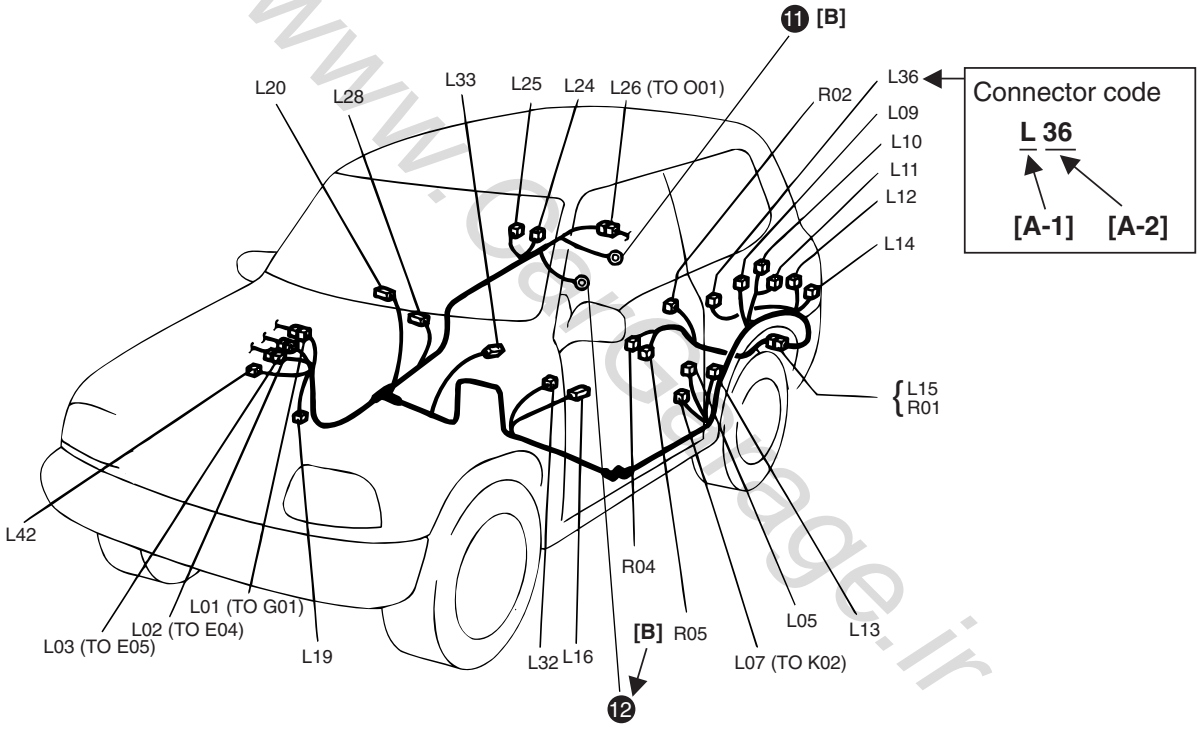
How to Read Connector Layout Diagram

S5JB0A9101005

[A-1]: Harness symbol and corresponding harness name
A: Battery harness
B: A/C harness
C: Engine harness
D: Injector harness
E: Main harness, Oil pressure switch wire, Console wire
G: Instrument panel harness
J: Side door wire (Power window)
K: Interior light harness, Rear speaker wire, Roof wire
L: Floor harness, G sensor wire (Fuel pump harness)
M: Rear bumper harness
O: Rear end door harness
Q: Air bag/Pretensioner harness
R: (Fuel pump wire)
[A-2]: Connector Number
[B]: Ground point No.



I2RH01910901-01

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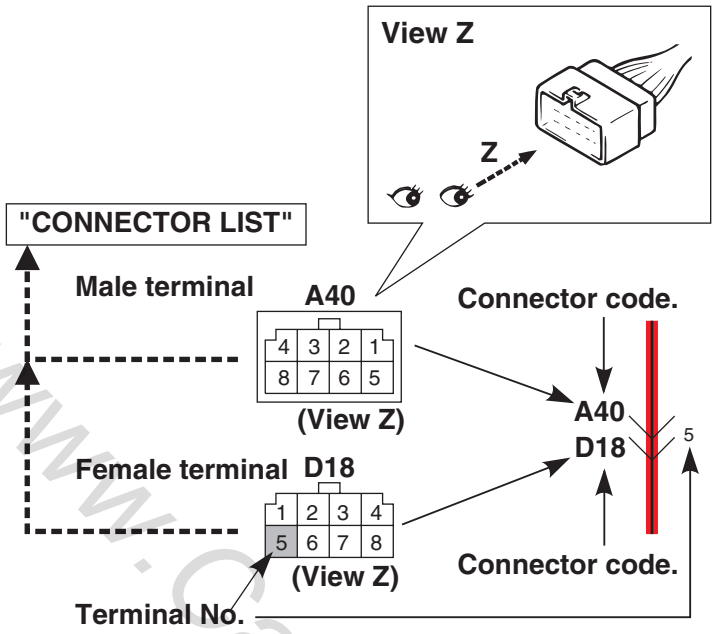
How to Read Connector Codes and Terminal Nos.

S5JB0A9101006

1) Connector code/Terminal No./Terminal layout
   - The connector shape and terminal layout shown in this manual are those when viewed from “Z” in the illustration.
     Refer to “List of Connectors: ”.

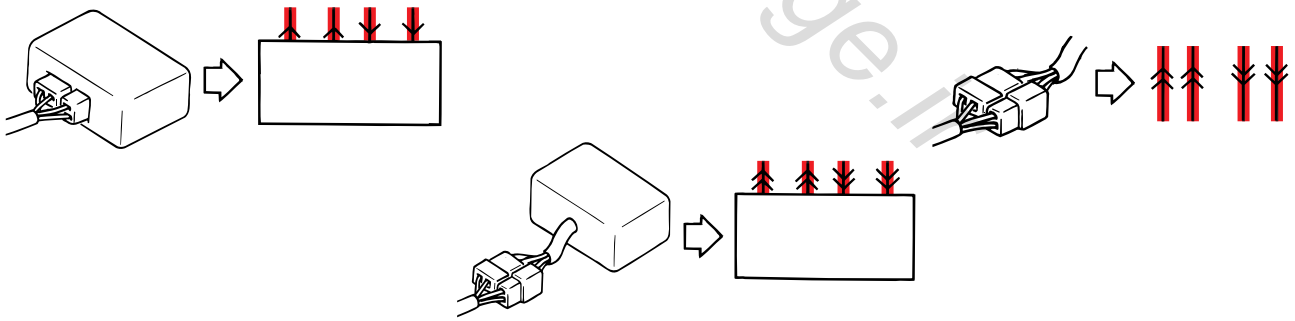


I5RS0A910901-01

NOTE

Molded terminal numbers that are different from the above can be found on some connectors in rare cases.
These molded numbers are not applied in this manual.

2) Connector type



I2RH01910903-01

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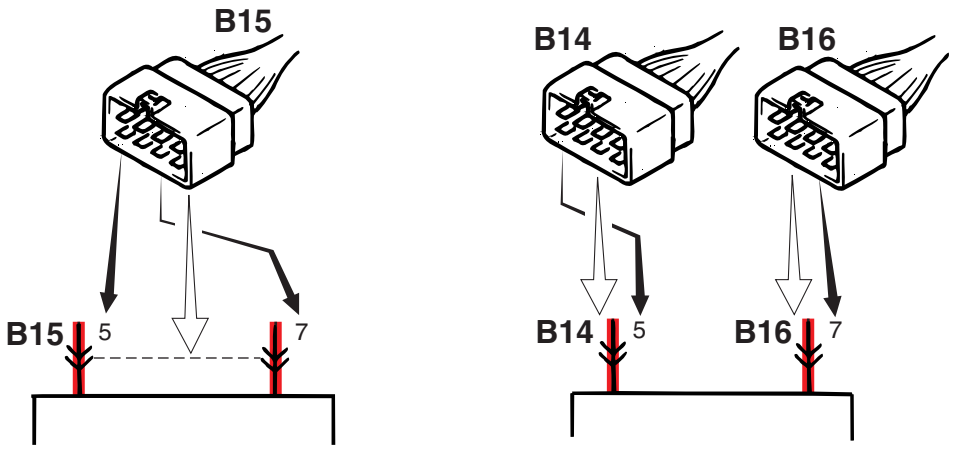
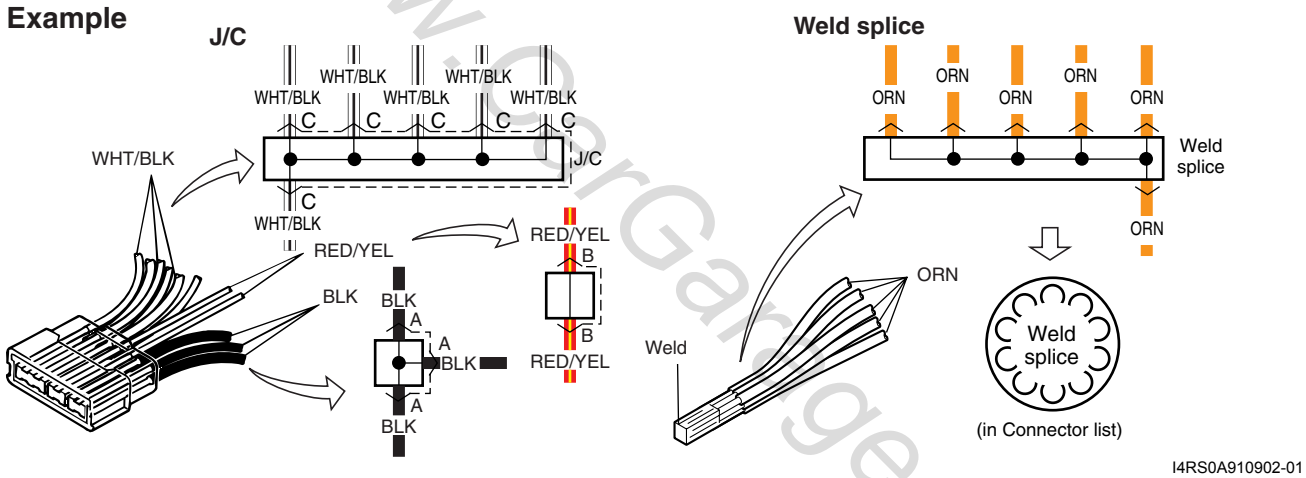
3) Terminals in one connector (Broken line) (B15)/Terminals in different connectors (B14, B16)



I2RH01910904-01

4) Joint connector (J/C)

- The joint connector (J/C) connects several different wires with the same wire color at one place instead of connecting them by welding or caulking one by one. It is not an ordinary connector but a part of the continuous wire in the harness.



I4RS0A910902-01

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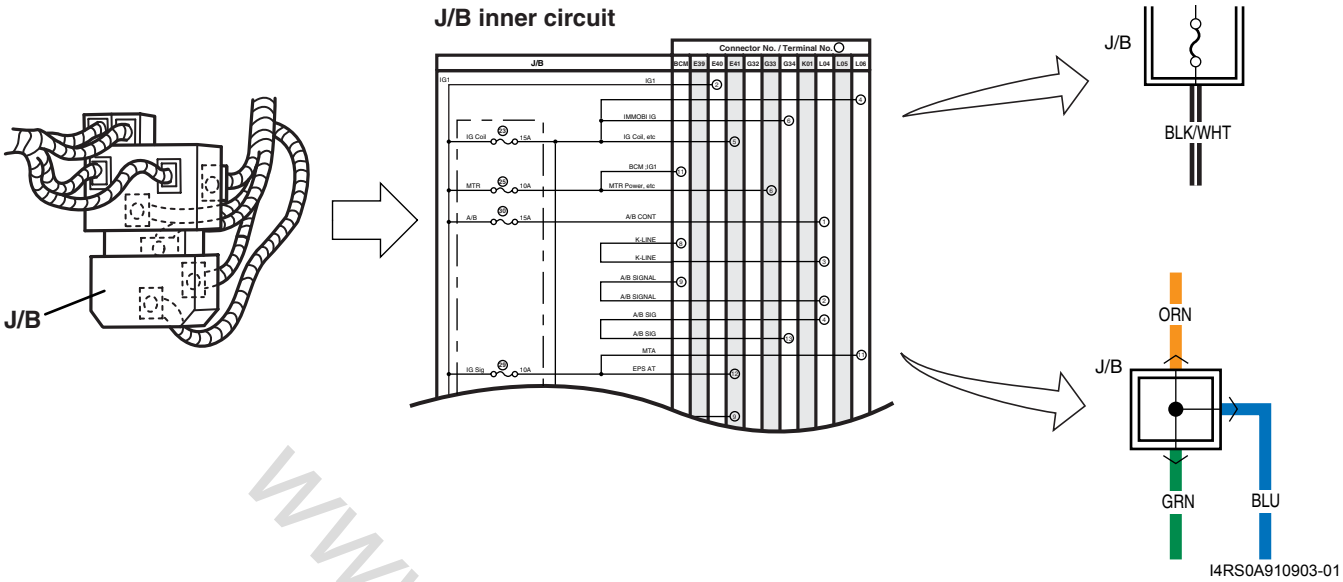
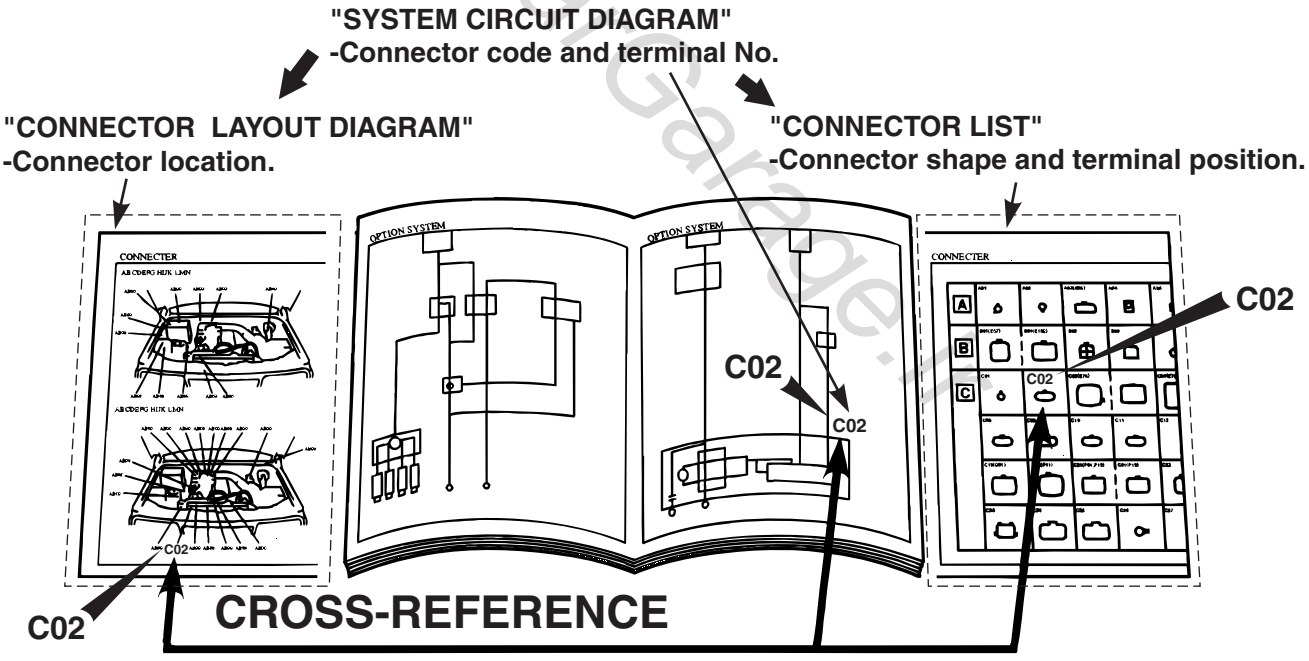
5) Junction block (J/B)

Example



I4RS0A910903-01

6) Connector location, shape and terminal No.
Refer to “Connector Layout Diagram: ”.
Refer to “System Circuit Diagram: ”.
Refer to “List of Connectors: ”.



I2RH01910906-01

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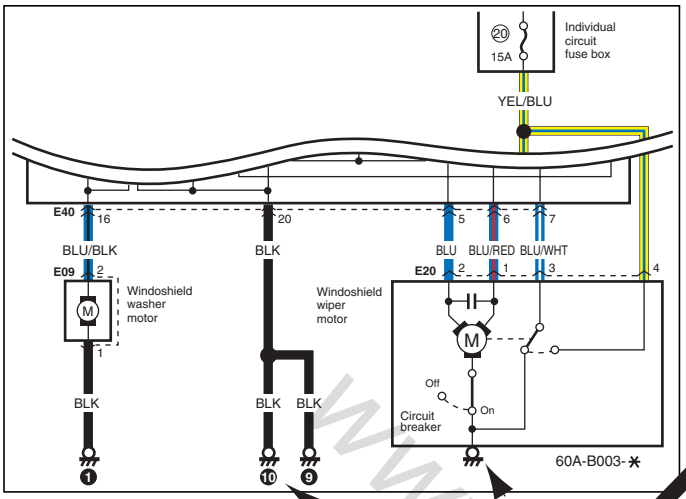
How to Read Ground Point

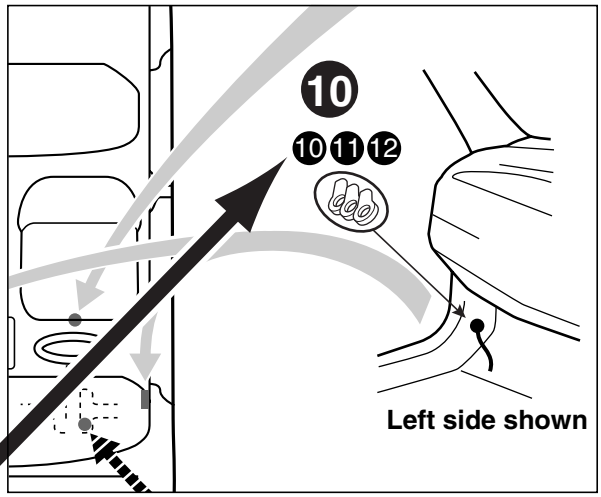
S5JB0A9101007

Refer to “System Circuit Diagram: ”.
Refer to “Ground (earth) Point: ”.

"SYSTEM CIRCUIT DIAGRAM"



"GROUND POINT"



10

Device body grounding is not given the ground point number.

CROSS-REFERENCE

I4JA01910985-01

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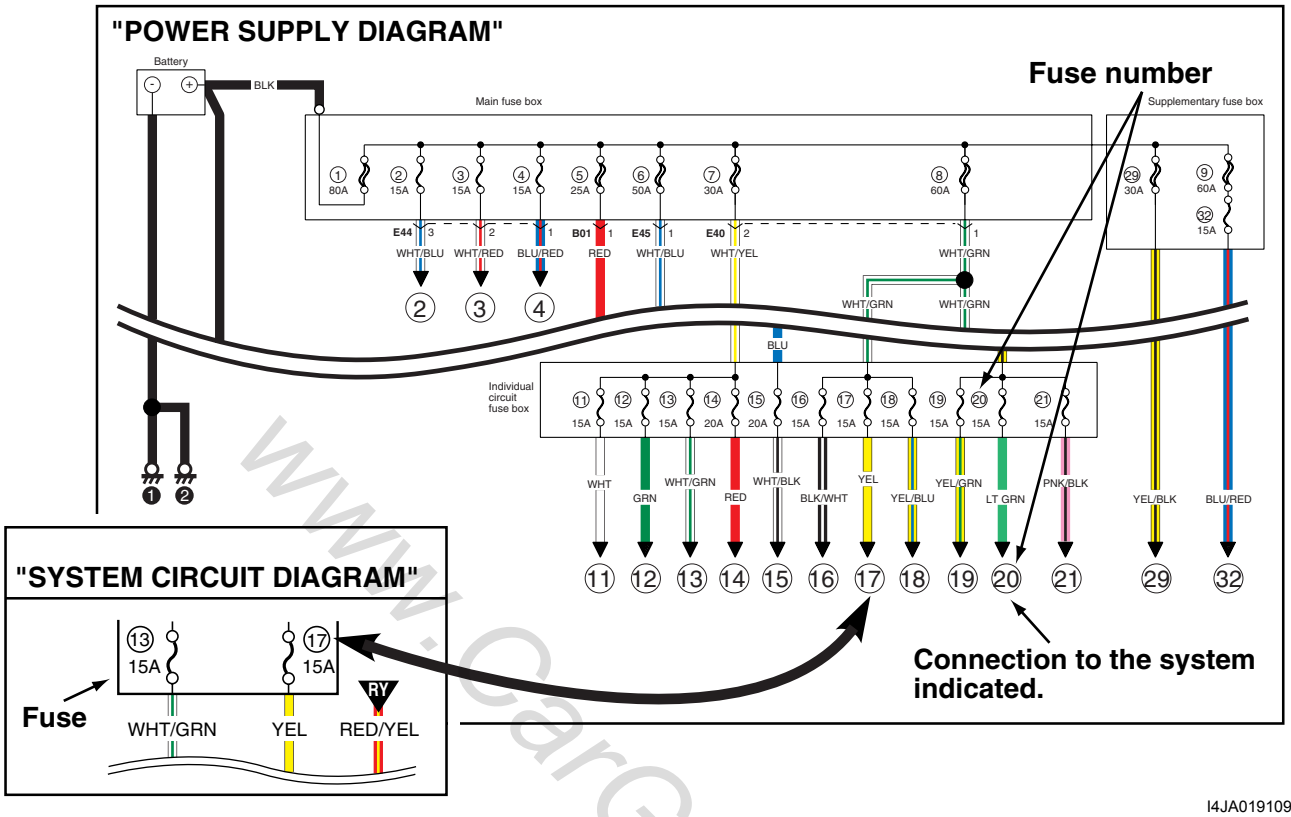
How to Read Power Supply Diagram

S5JB0A9101008

Refer to “Power Supply Diagram: ”.
Refer to “System Circuit Diagram: ”.



I4JA01910986-01

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How to Read System Circuit Diagram

S5JB0A9101009

The circuit diagram is designed so the current flows from the top of the diagram (power source) to the bottom of the diagram (ground) as if giving an image of water flow.

[A]: Fuse No.

[B]: Circuit jumping page / direction

NOTE

This means "Jump to the page directed with the arrow(s) by their number.
(For example:" Two arrows directing left" means" Jump to two pages before".)
You will find the same symbol with the arrows directing opposite in the referenced page. The circuit continues between the symbols.

[C]: Circuit jumping point / direction

NOTE

The circuit continues to the same symbol with opposite direction within the page.
You will find the other symbol in the direction of the arrow.

[D]: Terminals-in-one-connector mark

[E]: Wire color

[F]: Shield wire

[G]: Ground point

[H]: "From" or "To" (With ID letter (s))

[I]: Specification variation

The white arrow between A and B means "or".

[J]: "From" (With ID letter (s))

[K] "To" (With ID letter (s))

[L]: Connector code

[M]: Terminal No.

[N]: Symbol mark

[O]: "SEE" mark

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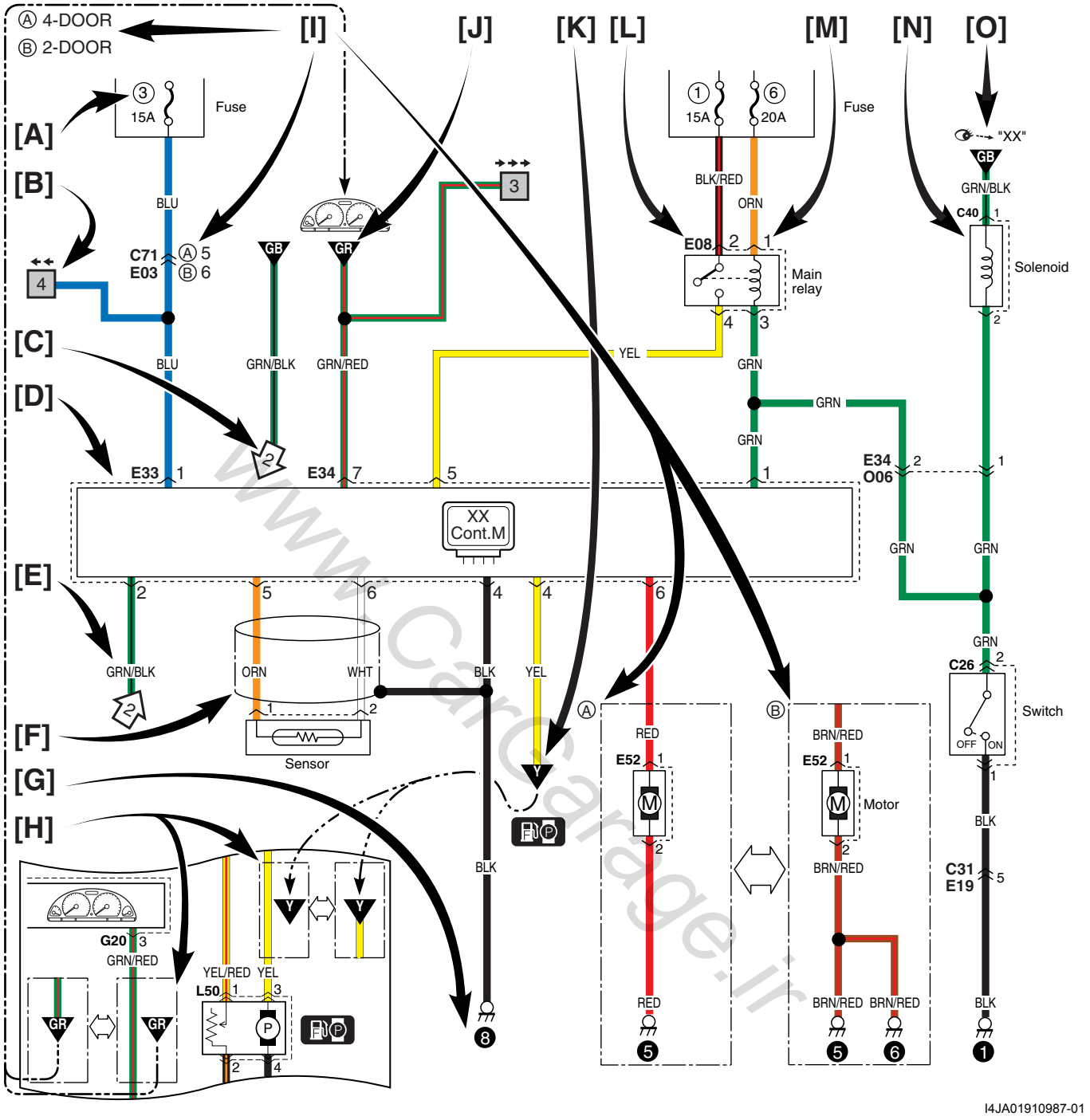

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Harness Routing and Connector Layout Diagram

Connector Layout Diagram

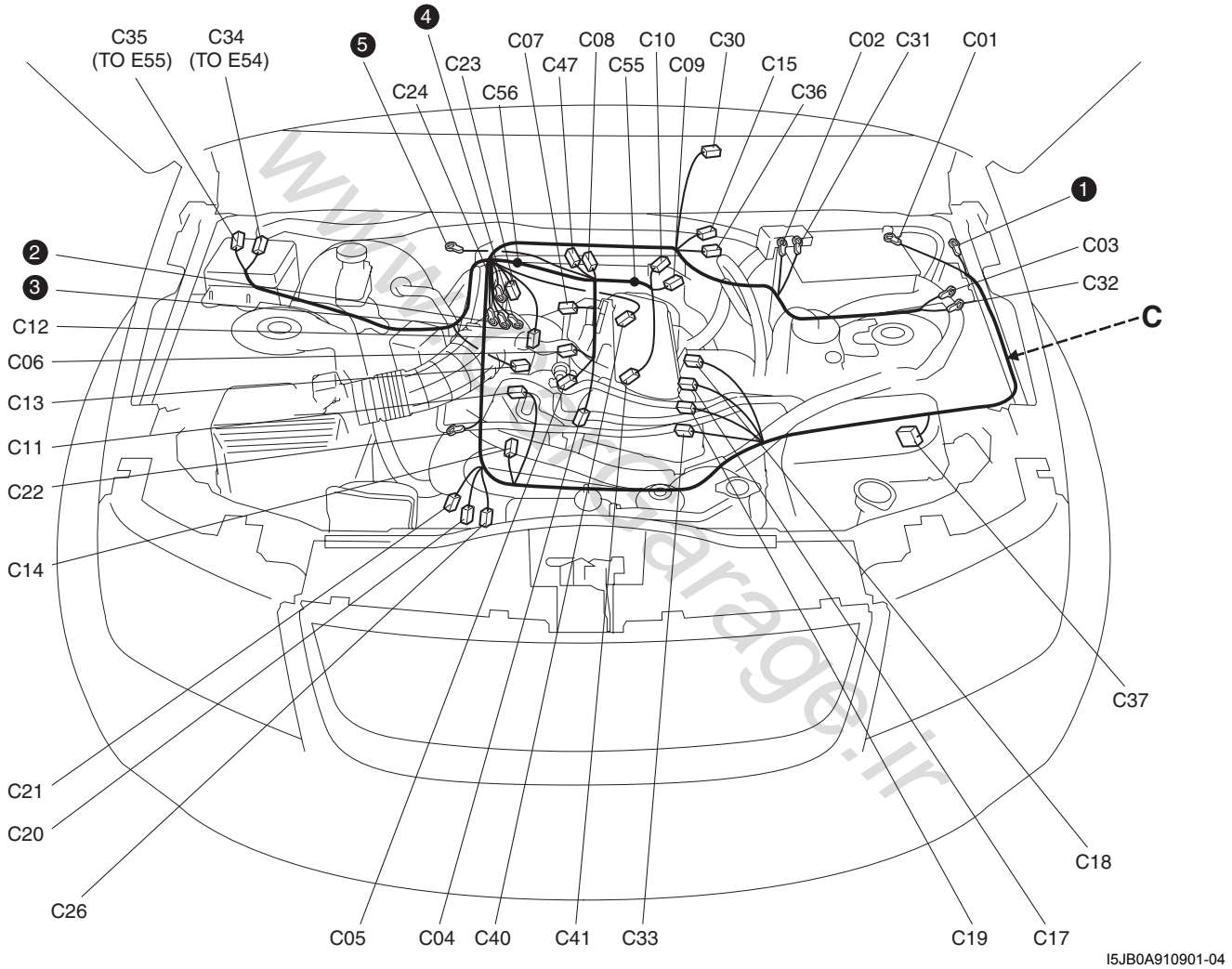
S5JB0A910A006

Refer to “Engine Compartment: ”.
Refer to “Instrument Panel: ”.
Refer to “Door, Roof: ”.
Refer to “Floor: ”.
Refer to “Rear: ”.

Engine Compartment

S5JB0A910A001

C: Engine harness (M16A RHD)



I5JB0A910901-04

C: Engine harness

No./Color	Connective position	No./Color	Connective position
C01/-	Battery (-)	C21/GRN	Generator #1
C02/-	Battery fuse box	C22/-	Generator #2
C03/-	Fuse box No.1	C23/BLK	Starting motor #1
C04/GRY	Injector #1	C24/-	Starting motor #2
C05/GRY	Injector #2	C26/GRY	Knock sensor
C06/GRY	Injector #3	C30/BLK (M/T)	Back-up light switch
C07/GRY	Injector #4	C31/-	Battery fuse box
C08/BLK	CMP sensor	C32/-	Fuse box No.1
C09/BLK	ECT sensor	C33/N	P/S pump pressure switch
C10/GRY	EGR stepper motor	C34/N	Main harness (To E54)

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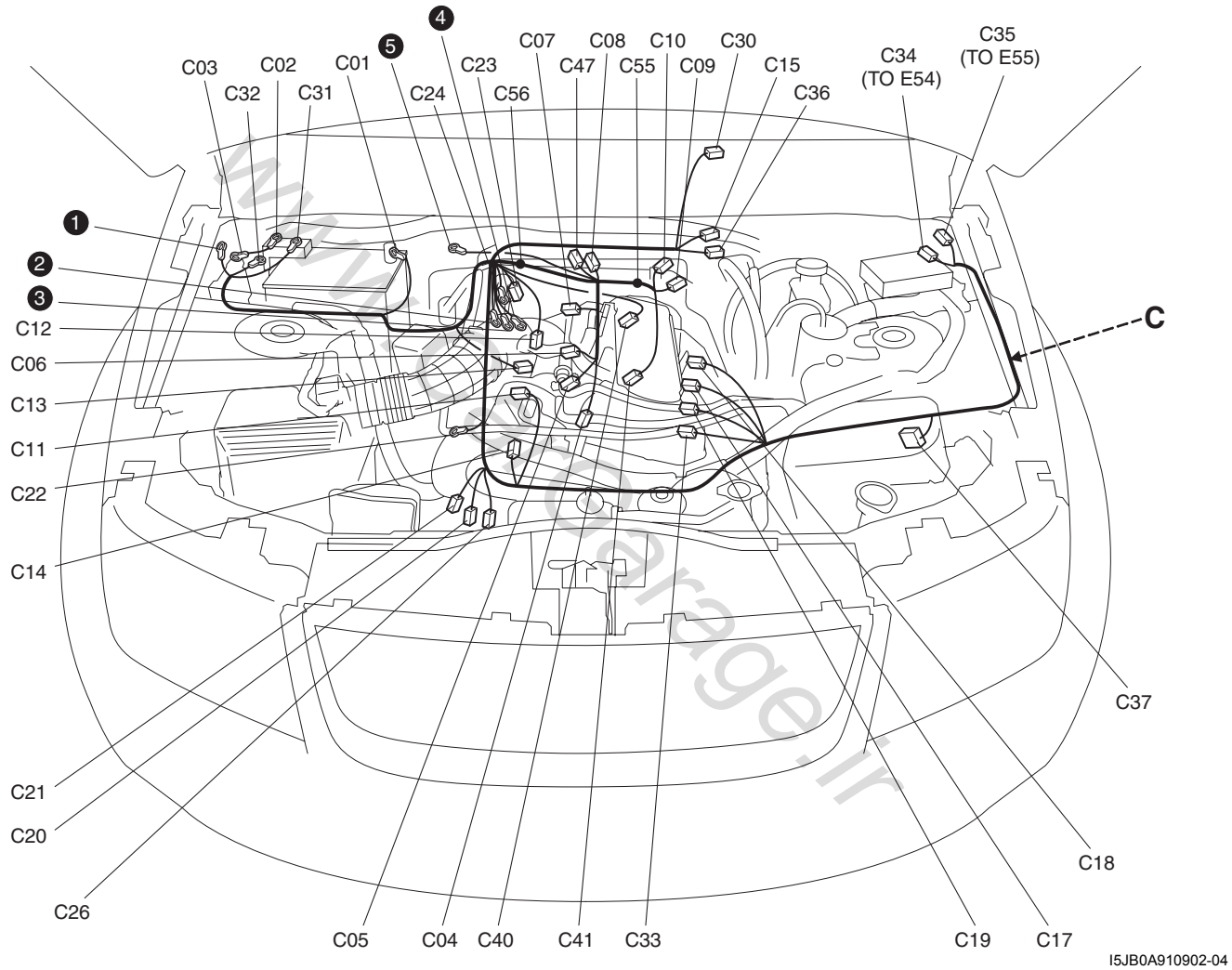
No./Color	Connective position	No./Color	Connective position
C11/BLK	Throttle position sensor	C35/BLU	Main harness (To E55)
C12/BLK	MAP sensor	C36/GRY	A/F sensor
C13/BLK	MAF sensor	C37/GRY	ECM
C14/BLK	EVAP canister purge valve	C40/GRY	IG coil #1 & #4
C15/N	Rear heated oxygen sensor	C41/GRY	IG coil #2 & #3
C17/BLK	A/C compressor	C47/BLK	Noise filter
C18/N	Oil pressure sensor	C55/-	Weld splice
C19/BLU	VVT solenoid	C56/-	Weld splice
C20/N	CKP sensor		

C: Engine harness (M16A LHD)



C: Engine harness

No./Color	Connective position	No./Color	Connective position
C01/-	Battery (-)	C21/GRN	Generator #1
C02/-	Battery fuse box	C22/-	Generator #2
C03/-	Fuse box No.1	C23/BLK	Starting motor #1
C04/GRY	Injector #1	C24/-	Starting motor #2
C05/GRY	Injector #2	C26/GRY	Knock sensor
C06/GRY	Injector #3	C30/BLK (M/T)	Back-up light switch
C07/GRY	Injector #4	C31/-	Battery fuse box
C08/BLK	CMP sensor	C32/-	Fuse box No.1
C09/BLK	ECT sensor	C33/N	P/S pump pressure switch
C10/GRY	EGR stepper motor	C34/N	Main harness (To E54)
C11/BLK	Throttle position sensor	C35/BLU	Main harness (To E55)

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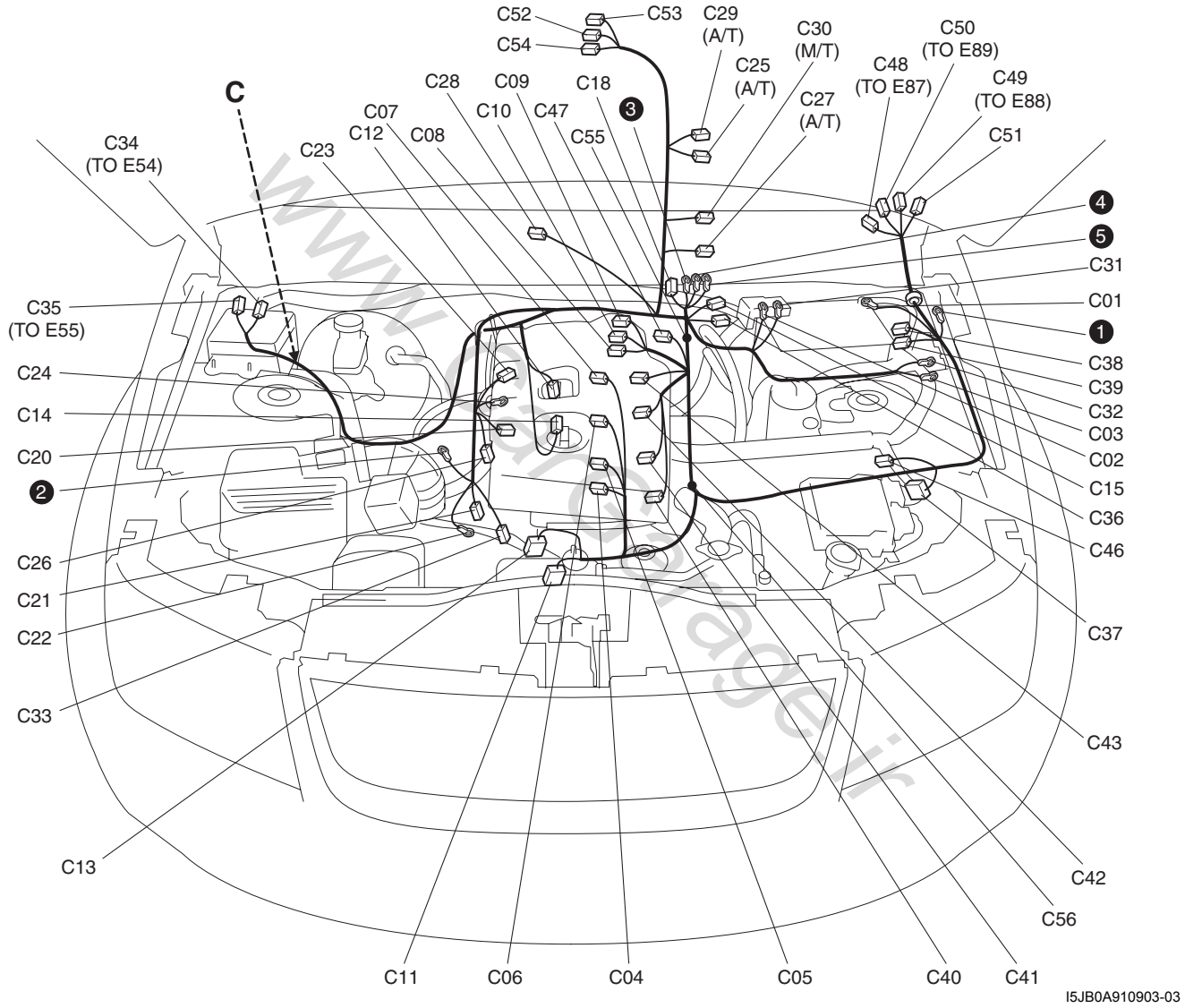
No./Color	Connective position	No./Color	Connective position
C12/BLK	MAP sensor	C36/GRY	A/F sensor
C13/BLK	MAF sensor	C37/GRY	ECM
C14/BLK	EVAP canister purge valve	C40/GRY	IG coil #1 & #4
C15/N	Rear heated oxygen sensor	C41/GRY	IG coil #2 & #3
C17/BLK	A/C compressor	C47/BLK	Noise filter
C18/N	Oil pressure sensor	C55/-	Weld splice
C19/BLU	VVT solenoid	C56/-	Weld splice
C20/N	CKP sensor		

C: Engine harness (J20A RHD)



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C: Engine harness

No./Color	Connective position	No./Color	Connective position
C01/-	Battery (-)	C30/BLK (M/T)	Back-up light switch
C02/-	Battery fuse box	C31/-	Battery fuse box
C03/-	Fuse box No.1	C32/-	Fuse box No.1
C04/GRY	Injector #1	C33/N	P/S pump pressure switch
C05/GRY	Injector #2	C34/N	Main harness (To E54)
C06/GRY	Injector #3	C35/BLU	Main harness (To E55)
C07/GRY	Injector #4	C36/GRY	A/F sensor
C08/GRY	CMP sensor	C37/GRY	ECM
C09/BLK	ECT sensor	C38/BLK	Current sensor
C10/GRY	EGR stepper motor	C39/GRY	Fuse box No.1
C11/BLK	Throttle position sensor	C40/GRY	IG coil #1
C12/BLK	MAP sensor	C41/GRY	IG coil #2
C13/BLK	MAF sensor	C42/GRY	IG coil #3
C14/BLK	EVAP canister purge valve	C43/GRY	IG coil #4
C15/N	Rear heated oxygen sensor	C46/BRN	Intake control valve
C18/N	Oil pressure sensor	C47/BLK	Noise filter
C20/GRY	CKP sensor	C48/N	Main harness (To E87)
C21/GRN	Generator #1	C49/N	Main harness (To E88)
C22/-	Generator #2	C50/N	Main harness (To E89)
C23/BLK	Starting motor #1	C51/BLU	J/C
C24/-	Starting motor #2	C52/BLK	T/F 4L switch
C25/BLU (A/T)	Output shaft speed sensor	C53/N	T/F position switch
C26/GRY	Knock sensor	C54/GRY	T/F actuator
C27/BLU (A/T)	Input shaft speed sensor	C55/-	Weld splice
C28/GRY (A/T)	Transmission range sensor	C56/-	Weld splice
C29/GRY (A/T)	Shift solenoid		

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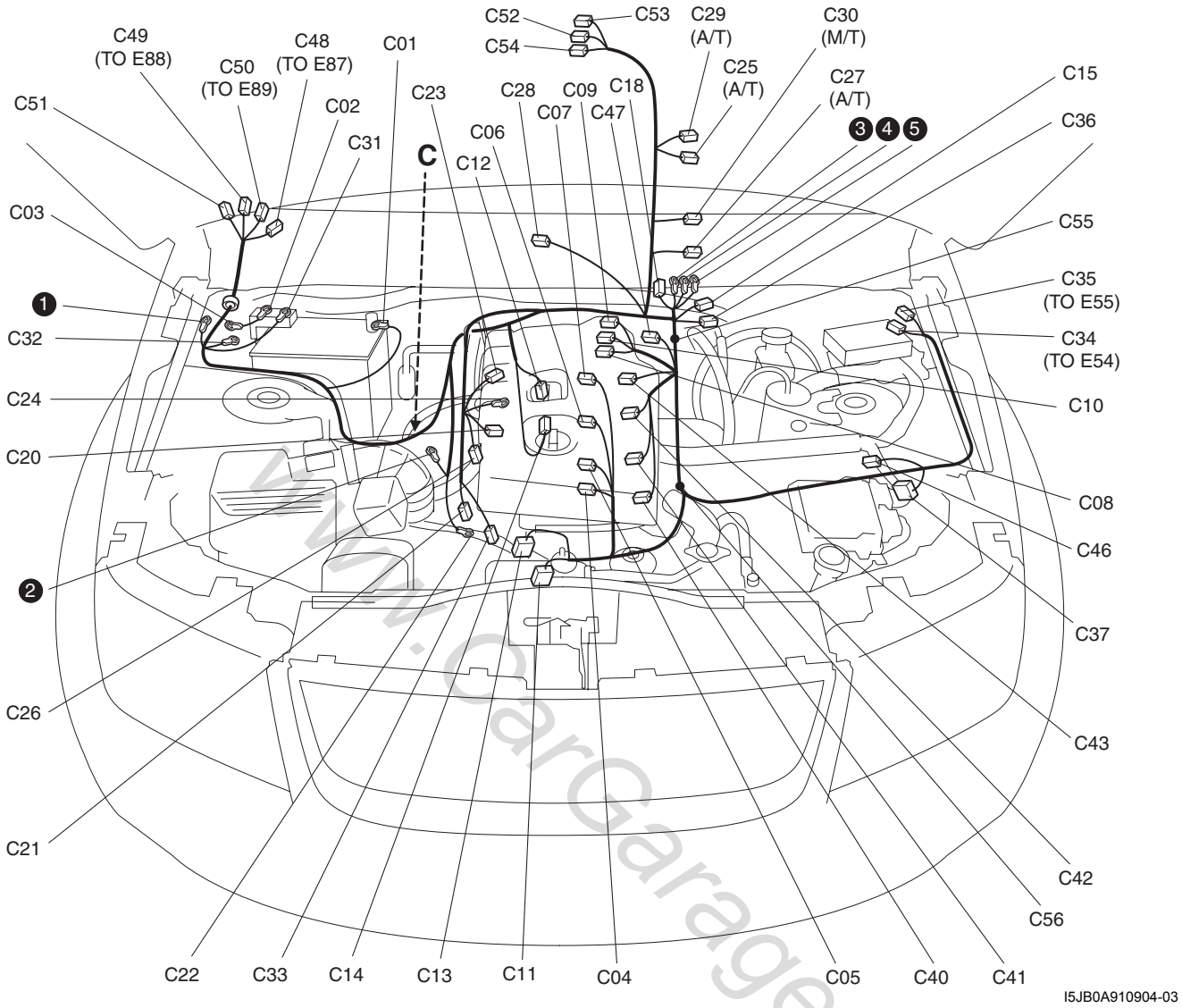
C: Engine harness (J20A LHD)



C: Engine harness

No./Color	Connective position	No./Color	Connective position
C01/-	Battery (-)	C30/BLK (M/T)	Back-up light switch
C02/-	Battery fuse box	C31/-	Battery fuse box
C03/-	Fuse box No.1	C32/-	Fuse box No.1
C04/GRY	Injector #1	C33/N	P/S pump pressure switch
C05/GRY	Injector #2	C34/N	Main harness (To E54)
C06/GRY	Injector #3	C35/BLU	Main harness (To E55)
C07/GRY	Injector #4	C36/GRY	A/F sensor
C08/GRY	CMP sensor	C37/GRY	ECM
C09/BLK	ECT sensor	C38/BLK	Current sensor
C10/GRY	EGR stepper motor	C39/GRY	Fuse box No.1
C11/BLK	Throttle position sensor	C40/GRY	IG coil #1
C12/BLK	MAP sensor	C41/GRY	IG coil #2
C13/BLK	MAF sensor	C42/GRY	IG coil #3
C14/BLK	EVAP canister purge valve	C43/GRY	IG coil #4
C15/N	Rear heated oxygen sensor	C46/BRN	Intake control valve
C18/N	Oil pressure sensor	C47/BLK	Noise filter
C20/GRY	CKP sensor	C48/N	Main harness (To E87)
C21/GRN	Generator #1	C49/N	Main harness (To E88)
C22/-	Generator #2	C50/N	Main harness (To E89)

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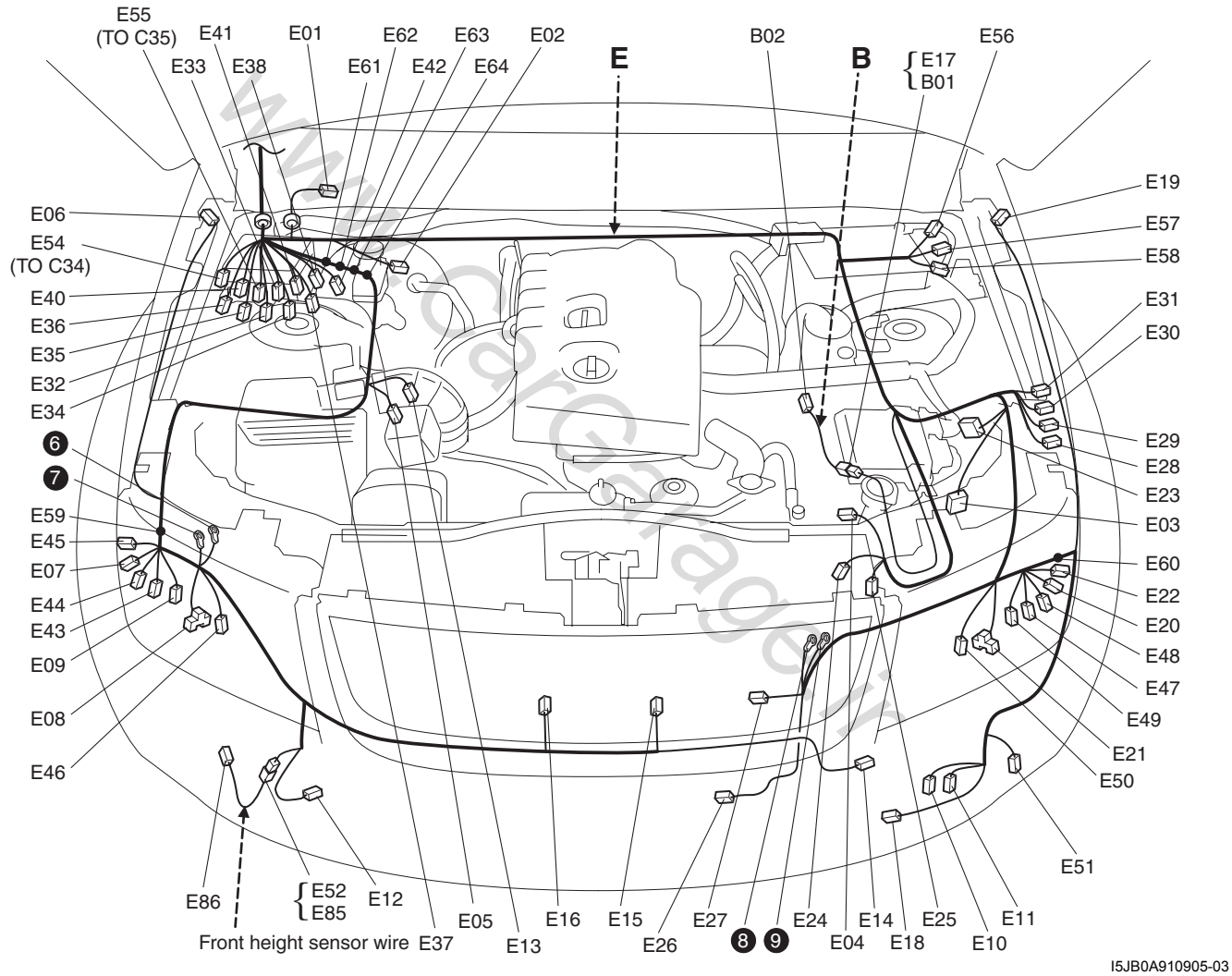
No./Color	Connective position	No./Color	Connective position
C23/BLK	Starting motor #1	C51/BLU	J/C
C24/-	Starting motor #2	C52/BLK	T/F 4L switch
C25/BLU (A/T)	Output shaft speed sensor	C53/N	T/F position switch
C26/GRY	Knock sensor	C54/GRY	T/F actuator
C27/BLU (A/T)	Input shaft speed sensor	C55/-	Weld splice
C28/GRY (A/T)	Transmission range sensor	C56/-	Weld splice
C29/GRY (A/T)	Shift solenoid		

B: A/C compressor wire / E: Main harness, Front height sensor wire (RHD)



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B: A/C compressor wire

No./Color	Connective position	No./Color	Connective position
B01/BLK	Main Harness (To E17)	B02/BLK	A/C compressor

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E: Main harness

No./Color	Connective position	No./Color	Connective position
E01/GRY	Windshield wiper motor	E32/BLK	Fuse box No.2 (Starting motor relay & Headlight HI relay & Headlight LO relay)
E02/GRY	Brake fluid level switch	E33/BLK	Fuse box No.2 (Heater motor relay & Main relay & Fuel pump relay)
E03/BLK	ABS control module	E34/BLK (M16A)	Fuse box No.2 (A/C compressor relay & Heated oxygen relay)
E04/BLK	A/C pressure sensor	E35/N	Power integration No.1 (Mirror heater relay & Fog lamp relay)
E05/N	Wheel speed sensor (FR)	E36/N	Power integration No.1 (Horn relay & Rear defogger relay)
E06/N	Side turn signal light (R)	E37/N (J20A)	Power integration No.2 (A/C compressor relay & Heated oxygen relay)
E07/N	Front position light (R)	E38/N (J20A)	Power integration No.2 (A/T relay)
E08/BLK (3 dr)	Headlight (R)	E40/GRY	Power integration No.1
E09/GRY	Front turn signal light (R)	E41/N (J20A)	Power integration No.2
E10/N	Windshield washer motor	E42/N	Fuse box No.2
E11/N	Rear washer motor	E43/GRY (5 dr)	HID headlight (R)
E12/BLK	Front fog light (R)	E44/BLK (5 dr)	Headlight LO (R)
E13/YEL	Forward sensor (Driver side)	E45/GRY	Headlight beam leveling actuator (R)
E14/BLK	Ambient temperature sensor	E46/BLK (5 dr)	Headlight HI (R)
E15/BLK	Horn (HI)	E47/GRY (5 dr)	HID headlight (L)
E16/BLK	Horn (LO)	E48/BLK (5 dr)	Headlight LO (L)
E17/BLK	A/C compressor wire (To B01)	E49/GRY	Headlight beam leveling actuator (L)
E18/BLK	Front fog light (L)	E50/BLK (5 dr)	Headlight HI (L)
E19/N	Side turn signal light (L)	E51/N	HLC motor
E20/GRY	Front turn signal light (L)	E52/BLK	Front height sensor wire (To E85)
E21/BLK (3 dr)	Headlight (L)	E54/N	Engine harness (To C34)
E22/N	Front position light (L)	E55/BLU	Engine harness (To C35)
E23/GRY	ECM	E56/BLK	Fuse box No.1
E24/YEL	Forward sensor (Passenger side)	E57/BLK	Fuse box No.1
E25/GRY	Wheel speed sensor (FL)	E58/GRY	Fuse box No.1
E26/BLK	Radiator fan motor #1	E59/-	Weld splice
E27/GRY	Radiator fan motor #2	E60/-	Weld splice
E28/BLK	Relay box (Throttle motor relay)	E61/-	Weld splice
E29/BLK	Relay box (Radiator fan relay #1)	E62/-	Weld splice
E30/BLK	Relay box (Radiator fan relay #2)	E63/-	Weld splice
E31/BLK	Relay box (Radiator fan relay #3)	E64/-	Weld splice

E: Front height sensor wire

No./Color	Connective position	No./Color	Connective position
E85/BLK	Main Harness (To E52)	E86/BLK	Front height sensor

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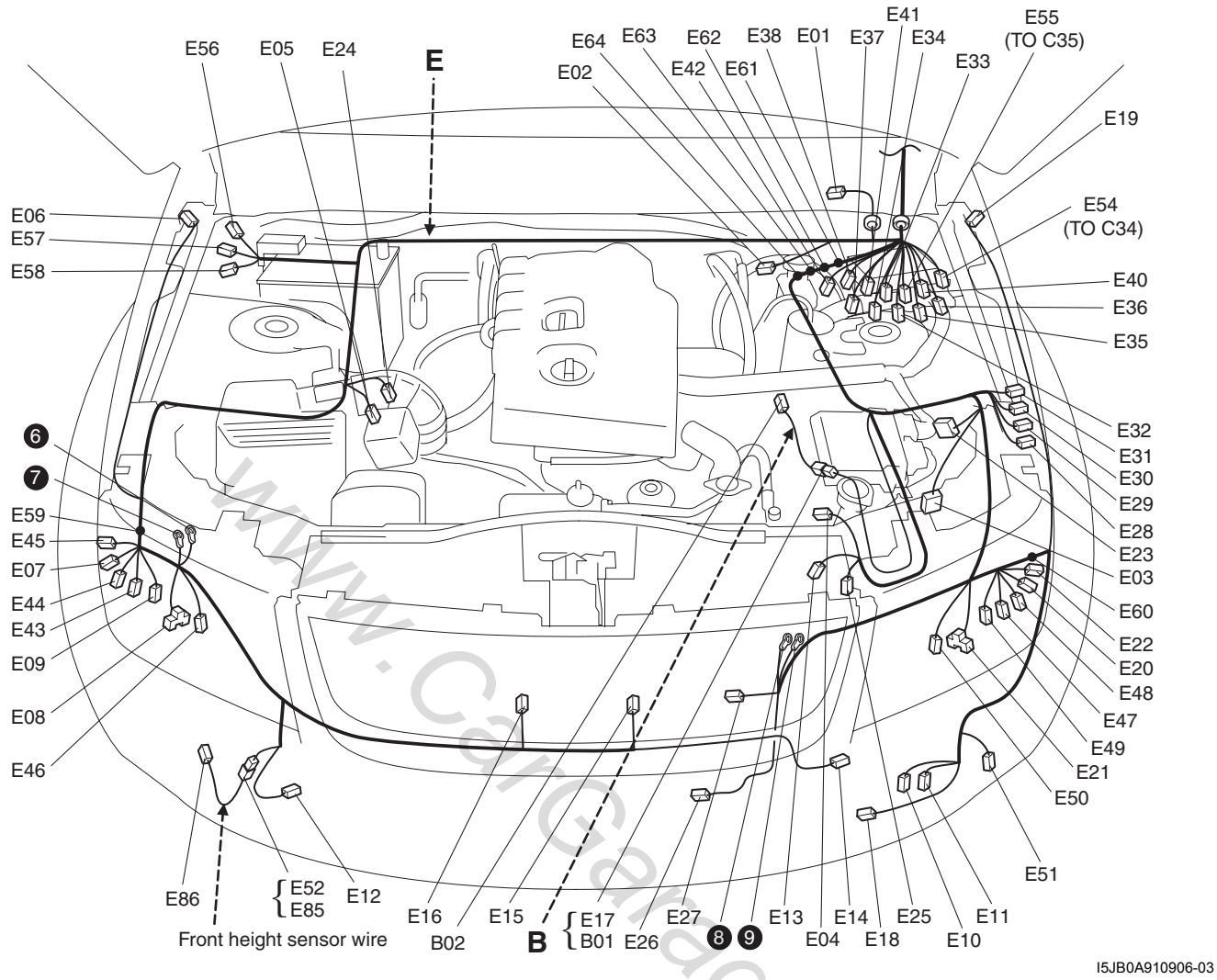
B: A/C compressor wire / E: Main harness, Front height sensor wire (LHD)



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B: A/C compressor wire

No./Color	Connective position	No./Color	Connective position
B01/BLK	Main Harness (To E17)	B02/BLK	A/C compressor

E: Main harness

No./Color	Connective position	No./Color	Connective position
E01/GRY	Windshield wiper motor	E32/BLK	Fuse box No.2 (Starting motor relay & Headlight HI relay & Headlight LO relay)
E02/GRY	Brake fluid level switch	E33/BLK	Fuse box No.2 (Heater motor relay & Main relay & Fuel pump relay)
E03/BLK	ABS control module	E34/BLK (M16A)	Fuse box No.2 (A/C compressor relay & Heated oxygen relay)
E04/BLK	A/C pressure sensor	E35/N	Power integration No.1 (Mirror heater relay & Fog lamp relay)
E05/N	Wheel speed sensor (FR)	E36/N	Power integration No.1 (Horn relay & Rear defogger relay)
E06/N	Side turn signal light (R)	E37/N (J20A)	Power integration No.2 (A/C compressor relay & Heated oxygen relay)
E07/N	Front position light (R)	E38/N (J20A)	Power integration No.2 (A/T relay)
E08/BLK (3 dr)	Headlight (R)	E40/GRY	Power integration No.1
E09/GRY	Front turn signal light (R)	E41/N (J20A)	Power integration No.2

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No./Color	Connective position	No./Color	Connective position
E10/N	Windshield washer motor	E42/N	Fuse box No.2
E11/N	Rear washer motor	E43/GRY (5 dr)	HID headlight (R)
E12/BLK	Front fog light (R)	E44/BLK (5 dr)	Headlight LO (R)
E13/YEL	Forward sensor (Driver side)	E45/GRY	Headlight beam leveling actuator (R)
E14/BLK	Ambient temperature sensor	E46/BLK (5 dr)	Headlight HI (R)
E15/BLK	Horn (HI)	E47/GRY (5 dr)	HID headlight (L)
E16/BLK	Horn (LO)	E48/BLK (5 dr)	Headlight LO (L)
E17/BLK	A/C compressor wire (To B01)	E49/GRY	Headlight beam leveling actuator (L)
E18/BLK	Front fog light (L)	E50/BLK (5 dr)	Headlight HI (L)
E19/N	Side turn signal light (L)	E51/N	HLC motor
E20/GRY	Front turn signal light (L)	E52/BLK	Front height sensor wire (To E85)
E21/BLK (3 dr)	Headlight (L)	E54/BLU	Engine harness (To C34)
E22/N	Front position light (L)	E55/N	Engine harness (To C35)
E23/GRY	ECM	E56/BLK	Fuse box No.1
E24/YEL	Forward sensor (Passenger side)	E57/BLK	Fuse box No.1
E25/GRY	Wheel speed sensor (FL)	E58/GRY	Fuse box No.1
E26/BLK	Radiator fan motor #1	E59/-	Weld splice
E27/GRY	Radiator fan motor #2	E60/-	Weld splice
E28/BLK	Relay box (Throttle motor relay)	E61/-	Weld splice
E29/BLK	Relay box (Radiator fan relay #1)	E62/-	Weld splice
E30/BLK	Relay box (Radiator fan relay #2)	E63/-	Weld splice
E31/BLK	Relay box (Radiator fan relay #3)	E64/-	Weld splice

E: Front height sensor wire

No./Color	Connective position	No./Color	Connective position
E85/BLK	Main Harness (To E52)	E86/BLK	Front height sensor

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Instrument Panel

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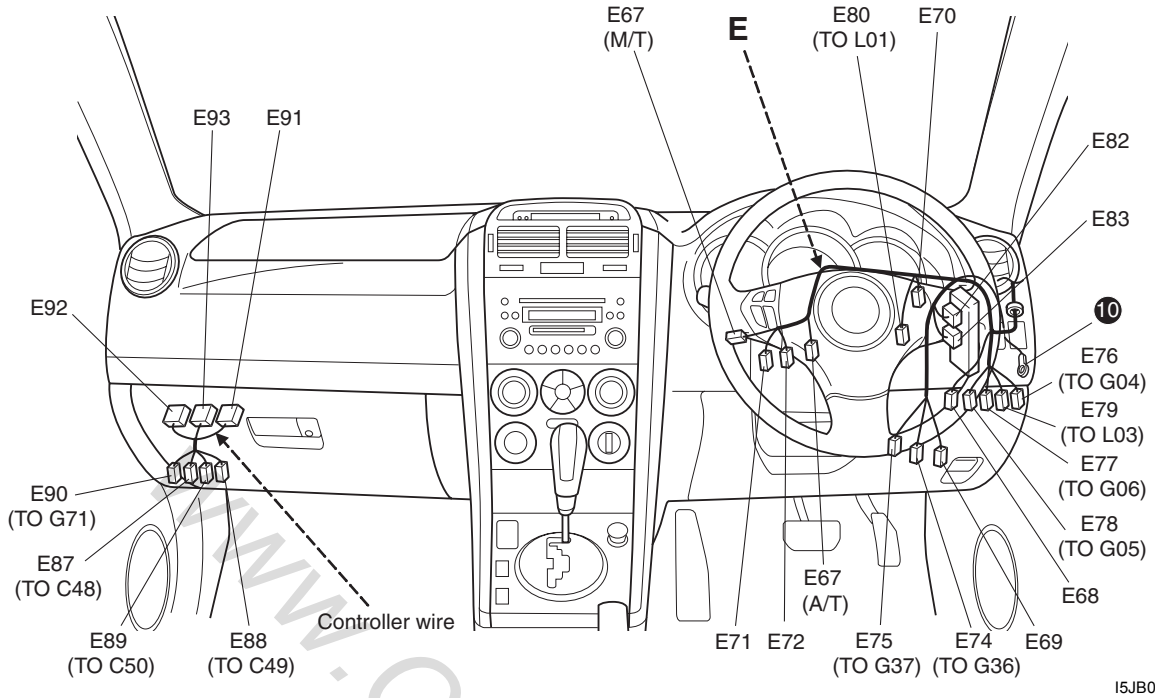
E: Main harness, Controller wire (RHD)



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E: Main harness

No./Color	Connective position	No./Color	Connective position
E67/N	Brake lamp switch	E76/N	Instrument panel harness (To G04)
E68/BLK	Acceleration pedal sensor	E77/YEL	Instrument panel harness (To G06)
E69/N (IF EQPD)	Diagnosis connector #1	E78/GRY	Instrument panel harness (To G05)
E70/BLK	Diode #1	E79/YEL	Floor harness (To L03)
E71/N	Clutch switch	E80/N	Floor harness (To L01)
E72/N	Clutch 4WD switch	E82/N	J/B
E74/N	Instrument panel harness (To G36)	E83/N	J/B
E75/N	Instrument panel harness (To G37)		

E: Controller wire

No./Color	Connective position	No./Color	Connective position
E87/N	Engine harness (To C48)	E91/N	4WD control module
E88/N	Engine harness (To C49)	E92/N	TCM
E89/N	Engine harness (To C50)	E93/N	TCM
E90/BLU	Instrument panel harness (To G71)		

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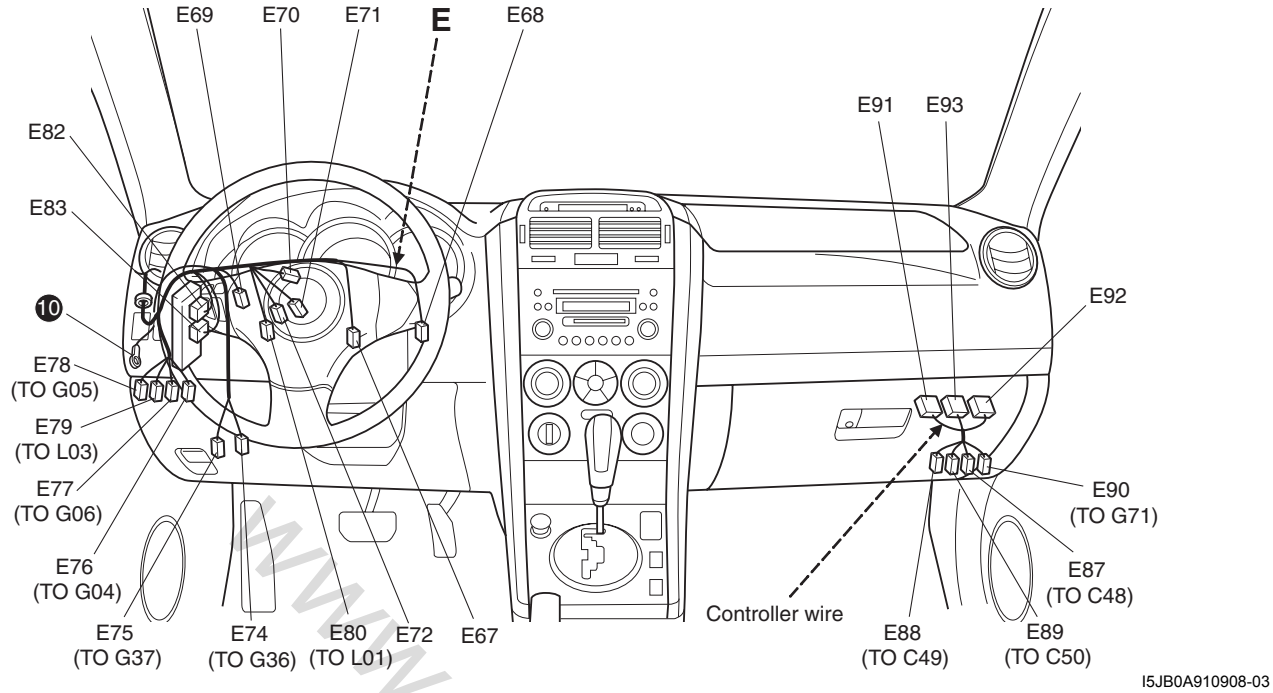
E: Main harness, Controller wire (LHD)



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E: Main harness

No./Color	Connective position	No./Color	Connective position
E67/N	Brake lamp switch	E76/N	Instrument panel harness (To G04)
E68/BLK	Acceleration pedal sensor	E77/N	Instrument panel harness (To G06)
E69/N	Diagnosis connector #1	E78/GRY	Instrument panel harness (To G05)
E70/BLK	Diode #1	E79/YEL	Floor harness (To L03)
E71/N	Clutch switch	E80/N	Floor harness (To L01)
E72/N	Clutch 4WD switch	E82/N	J/B
E74/N	Instrument panel harness (To G36)	E83/N	J/B
E75/N	Instrument panel harness (To G37)		

E: Controller wire

No./Color	Connective position	No./Color	Connective position
E87/N	Engine harness (To C48)	E91/N	4WD control module
E88/N	Engine harness (To C49)	E92/N	TCM
E89/N	Engine harness (To C50)	E93/N	TCM
E90/BLU	Instrument panel harness (To G71)		

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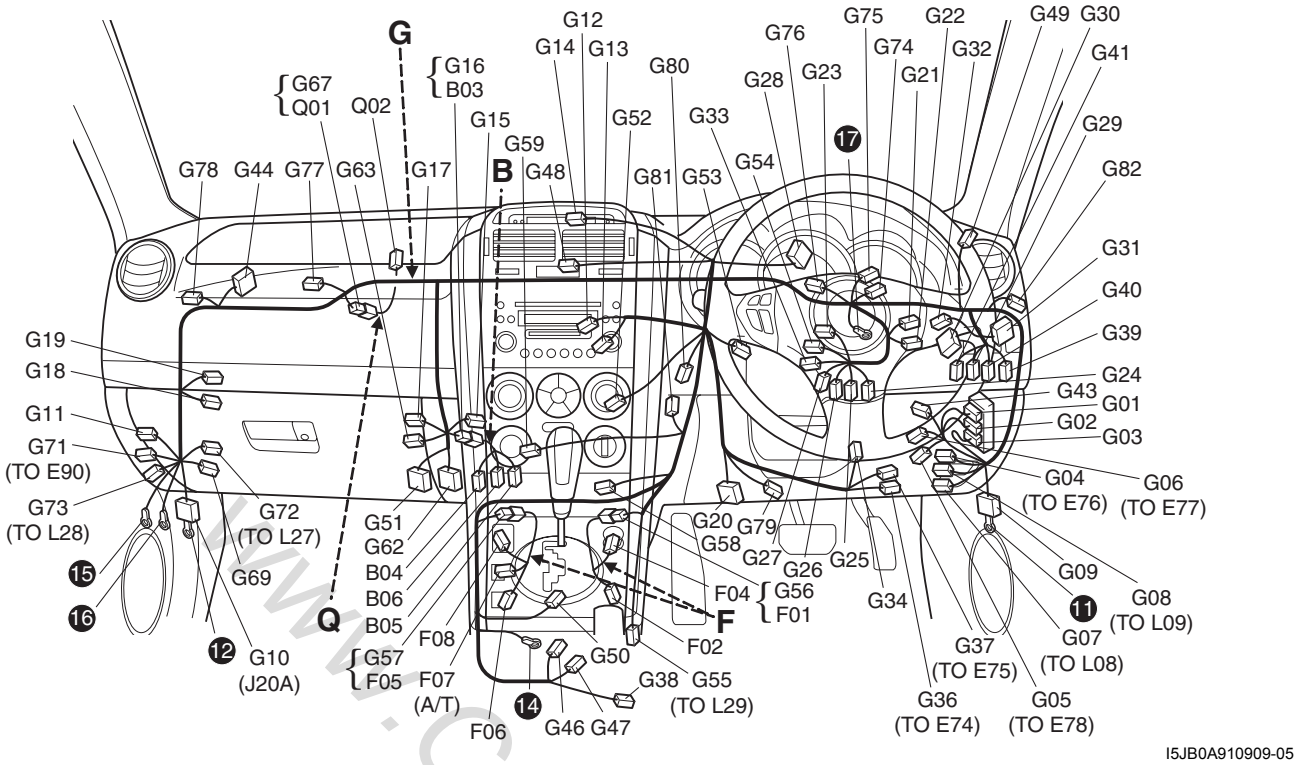
B: A/C wire / F: Console wire / G: Instrument panel harness / Q: A/B wire (RHD)



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B: A/C wire

No./Color	Connective position	No./Color	Connective position
B03/N	Instrument panel harness (To G16)	B05/YEL	Fresh/Recircle actuator
B04/YEL	Temperature control actuator	B06/YEL	Mode selecting actuator

F: Console wire

No./Color	Connective position	No./Color	Connective position
F01/N	Instrument panel harness (To G56)	F06/GRN	Seat heater switch (Passenger side)
F02/GRN	Seat heater switch (Driver side)	F07/N (A/T)	A/T mode select switch
F04/N	Cigar lighter (ACC socket #3)	F08/N	ACC socket #2
F05/N	Instrument panel harness (To G57)		

G: Instrument panel harness

No./Color	Connective position	No./Color	Connective position
G01/N	J/B	G38/N	Parking brake switch
G02/N	J/B	G39/ORN	HLC switch
G03/N	J/B	G40/N	Headlight beam leveling switch
G04/N	Main harness (To E76)	G41/GRY	ILL cancel switch
G05/GRY	Main harness (To E78)	G43/BLK	Diagnosis connector #4
G06/YEL	Main harness (To E77)	G44/N	Smart ECM
G07/N	Floor harness (To L08)	G46/YEL (With side A/B, curtain A/B system)	A/B SDM
G08/BLU	Floor harness (To L09)	G47/YEL (Without side A/B, curtain A/B system)	A/B SDM
G09/N	J/C	G48/ORN	Hazard switch
G10/N (J20A)	J/C	G49/N	Sunlight sensor
G11/N	Audio antenna	G50/N	A/T shift lever
G12/BLU	Audio	G51/N	Auto leveling control module
G13/N	Navigation	G52/GRY	Auto A/C

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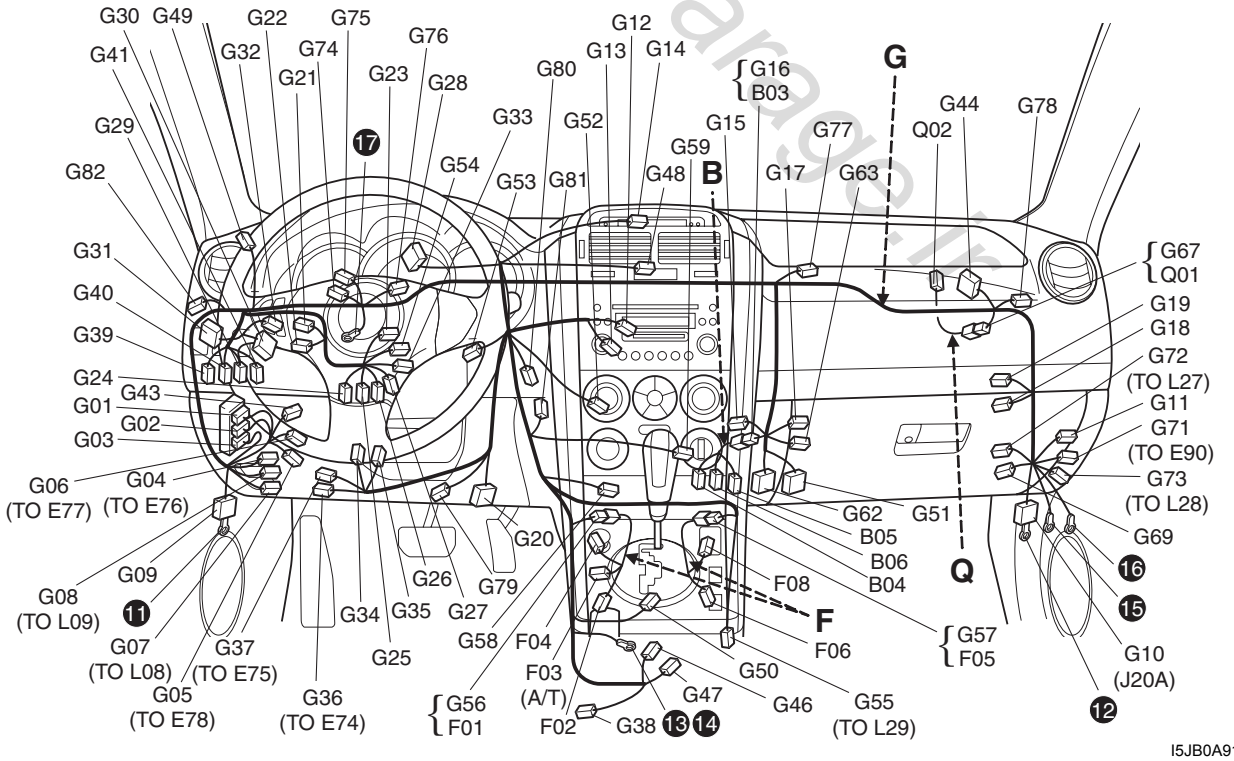
No./Color	Connective position	No./Color	Connective position
G14/YEL	Multi information display	G53/N	Room temperature sensor
G15/N	EVAP thermistor	G54/BLK	Steering switch
G16/N	A/C wire (To B03)	G55/YEL	Floor harness (To L29)
G17/N	Fan driver	G56/N	Console wire (To F01)
G18/N	Blower fan motor	G57/N	Console wire (To F05)
G19/BLK	Diode #2	G58/N	Ashtray ILL
G20/BLK	Data link connector	G59/GRN	4WD switch
G21/N	IG switch	G62/N	HLC control module
G22/N	Main switch (Key switch)	G63/N	Security option
G23/BLK	COMB switch	G67/YEL	Instrument panel harness (To Q01)
G24/BLK	ICM	G69/N	CO adjusting resistor
G25/N	COMB switch	G71/BLU	Controller wire (To E90)
G26/YEL	Driver inflator	G72/N	Floor harness (To L27)
G27/YEL	Driver inflator	G73/N	Floor harness (To L28)
G28/GRN	COMB meter	G74/BLU	J/C
G29/GRN	Front fog switch	G75/BLU	J/C
G30/N	BCM	G76/N	J/C
G31/N	BCM	G77/N	J/C
G32/N	BCM	G78/N	J/C
G33/N	Steering switch	G79/BLU	J/C
G34/N	Diagnosis connector #2	G80/BLK	J/C
G36/N	Main harness (To E74)	G81/BLK	J/C
G37/N	Main harness (To E75)	G82/BLU	J/C

Q: A/B wire

No./Color	Connective position	No./Color	Connective position
Q01/YEL	Instrument panel harness (To G67)	Q02/BLK	Passenger inflator

B: A/C wire / F: Console wire / G: Instrument panel harness / Q: A/B wire (LHD)



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B: A/C wire

No./Color	Connective position	No./Color	Connective position
B03/N	Instrument panel harness (To G16)	B05/YEL	Fresh/Recircle actuator
B04/YEL	Temperature control actuator	B06/YEL	Mode selecting actuator

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F: Console wire

No./Color	Connective position	No./Color	Connective position
F01/N	Instrument panel harness (To G56)	F05/N	Instrument panel harness (To G57)
F02/GRN	Seat heater switch (Driver side)	F06/GRN	Seat heater switch (Passenger side)
F03/N (A/T)	A/T mode select switch	F08/N	ACC socket #2
F04/N	Cigar lighter (ACC socket #3)		

G: Instrument panel harness

No./Color	Connective position	No./Color	Connective position
G01/N	J/B	G38/N	Parking brake switch
G02/N	J/B	G39/ORN	HLC switch
G03/N	J/B	G40/N	Headlight beam leveling switch
G04/N	Main harness (To E76)	G41/GRY	ILL cancel switch
G05/GRY	Main harness (To E78)	G43/BLK	Diagnosis connector #4
G06/YEL	Main harness (To E77)	G44/N	Smart ECM
G07/N	Floor harness (To L08)	G46/YEL (With side A/B, curtain A/B system)	A/B SDM
G08/BLU	Floor harness (To L09)	G47/YEL (Without side A/B, curtain A/B system)	A/B SDM
G09/N	J/C	G48/ORN	Hazard switch
G10/N (J20A)	J/C	G49/N	Sunlight sensor
G11/N	Audio antenna	G50/N	A/T shift lever
G12/BLU	Audio	G51/N	Auto leveling control module
G13/N	Navigation	G52/GRY	Auto A/C
G14/YEL	Multi information display	G53/N	Room temperature sensor
G15/N	EVAP thermistor	G54/BLK	Steering switch
G16/N	A/C wire (To B03)	G55/YEL	Floor harness (To L29)
G17/N	Fan driver	G56/N	Console wire (To F01)
G18/N	Blower fan motor	G57/N	Console wire (To F05)
G19/BLK	Diode #2	G58/N	Ashtray ILL
G20/BLK	Data link connector	G59/GRN	4WD switch
G21/N	IG switch	G62/N	HLC control module
G22/N	Main switch (Key switch)	G63/N	Security option
G23/BLK	COMB switch	G64/N	Auto light sensor
G24/BLK	ICM	G67/YEL	Instrument panel harness (To Q01)
G25/N	COMB switch	G69/N	CO adjusting resistor
G26/YEL	Driver inflator	G71/BLU	Controller wire (To E90)
G27/YEL	Driver inflator	G72/N	Floor harness (To L27)
G28/GRN	COMB meter	G73/N	Floor harness (To L28)
G29/GRN	Front fog switch	G74/BLU	J/C
G30/N	BCM	G75/BLU	J/C
G31/N	BCM	G76/N	J/C
G32/N	BCM	G77/N	J/C
G33/N	Steering switch	G78/N	J/C
G34/N	Diagnosis connector #2	G79/BLU	J/C
G35/BLU (IF EQPD)	Diagnosis connector #3	G80/BLK	J/C
G36/N	Main harness (To E74)	G81/BLK	J/C
G37/N	Main harness (To E75)	G82/BLU	J/C

Q: A/B wire

No./Color	Connective position	No./Color	Connective position
Q01/YEL	Instrument panel harness (To G67)	Q02/BLK	Passenger inflator

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Door, Roof

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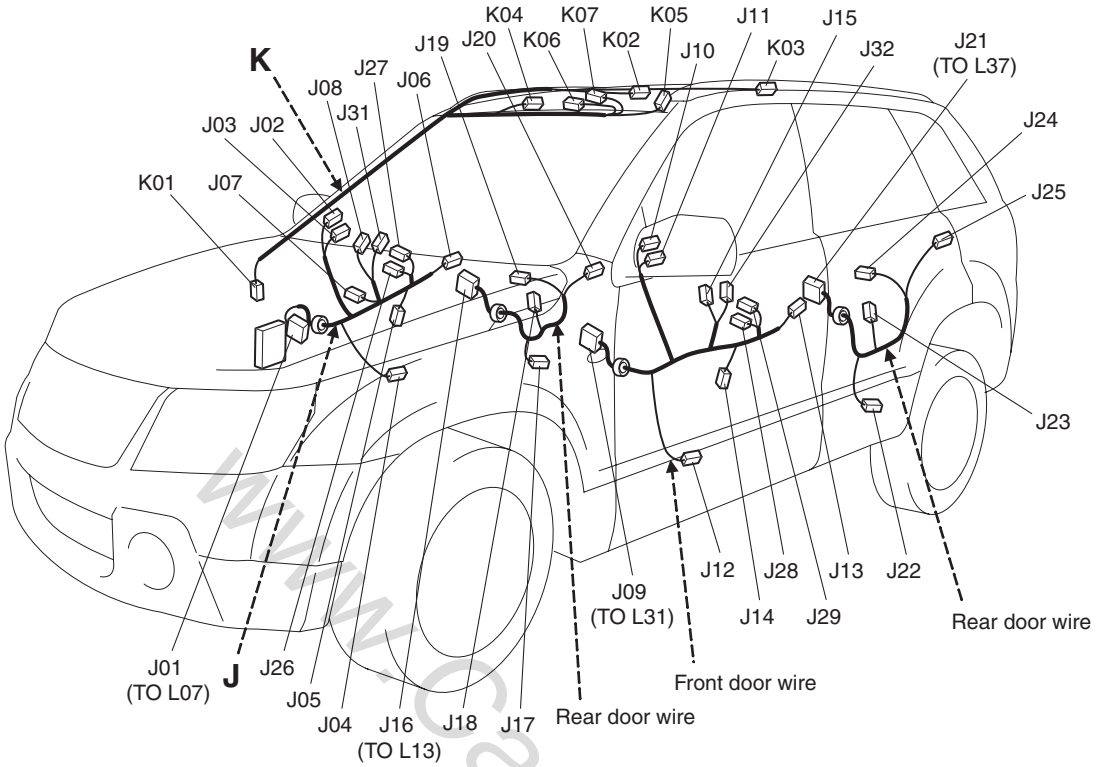
J: Front and rear door wire, rear door joint wire / K: Roof wire (RHD, 5dr)



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J: Front door wire (Drive side)

No./Color	Connective position	No./Color	Connective position
J01/GRY	Floor harness (To L07)	J07/N	Power mirror switch (Driver side)
J02/BLK	Tweeter (R)	J08/GRY	Power window main switch
J03/N	Power mirror motor (R)	J26/N	Door antenna (Driver side)
J04/N	Front speaker (R)	J27/N	Request switch (Driver side)
J05/BLK	Front power window motor (Driver side)	J31/N	Curtsy lamp (Driver side)
J06/N	Front door lock motor (Driver side)		

J: Front door wire (Passenger side)

No./Color	Connective position	No./Color	Connective position
J09/GRY	Floor harness (To L31)	J14/BLK	Front power window motor (Passenger side)
J10/BLK	Tweeter (L)	J15/N	Power window sub switch
J11/N	Power mirror motor (L)	J28/N	Door antenna (Passenger side)
J12/N	Front speaker (L)	J29/N	Request switch (Passenger side)
J13/N	Front door lock motor (Passenger side)	J32/N	Curtsy lamp (Passenger side)

J: Rear door wire

No./Color	Connective position	No./Color	Connective position
J16/N	Floor harness (To L13)	J21/N	Floor harness (To L37)
J17/N	Rear speaker (R)	J22/N	Rear speaker (L)
J18/BLK	Rear power window motor (R)	J23/BLK	Rear power window motor (L)
J19/N	Rear power window sub switch (R)	J24/N	Rear power window sub switch (L)
J20/N	Rear door lock motor (R)	J25/N	Rear door lock motor (L)

K: Roof wire

No./Color	Connective position	No./Color	Connective position
K01/N	J/B	K05/N	Vanity lamp (Passenger side)
K02/N	Interior light	K06/N	Sliding roof unit
K03/N	Rear interior light	K07/N	Console (Sliding roof switch & console lamp)
K04/N	Vanity lamp (Driver side)		

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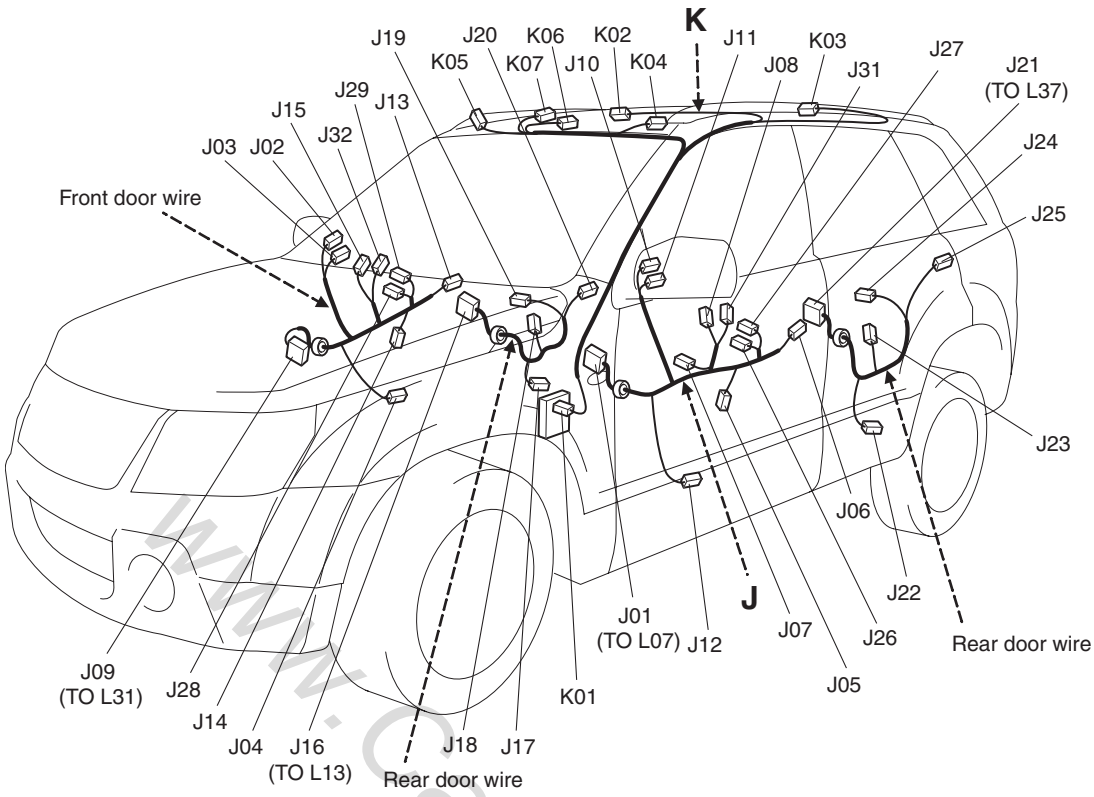
J: Front and rear door wire, rear door joint wire / K: Roof wire (LHD, 5dr)



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J: Front door wire (Drive side)

No./Color	Connective position	No./Color	Connective position
J01/GRY	Floor harness (To L07)	J07/N	Power mirror switch (Driver side)
J10/BLK	Tweeter (L)	J08/GRY	Power window main switch
J11/N	Power mirror motor (L)	J26/N	Door antenna (Driver side)
J12/N	Front speaker (L)	J27/N	Request switch (Driver side)
J05/BLK	Front power window motor (Driver side)	J31/N	Curtsy lamp (Driver side)
J06/N	Front door lock motor (Driver side)		

J: Front door wire (Passenger side)

No./Color	Connective position	No./Color	Connective position
J09/GRY	Floor harness (To L31)	J14/BLK	Front power window motor (Passenger side)
J02/BLK	Tweeter (R)	J15/N	Power window sub switch
J03/N	Power mirror motor (R)	J28/N	Door antenna (Passenger side)
J04/N	Front speaker (R)	J29/N	Request switch (Passenger side)
J13/N	Front door lock motor (Passenger side)	J32/N	Curtsy lamp (Passenger side)

J: Rear door wire

No./Color	Connective position	No./Color	Connective position
J16/N	Floor harness (To L13)	J21/N	Floor harness (To L37)
J17/N	Rear speaker (R)	J22/N	Rear speaker (L)
J18/BLK	Rear power window motor (R)	J23/BLK	Rear power window motor (L)
J19/N	Rear power window sub switch (R)	J24/N	Rear power window sub switch (L)
J20/N	Rear door lock motor (R)	J25/N	Rear door lock motor (L)

K: Roof wire

No./Color	Connective position	No./Color	Connective position
K01/N	J/B	K05/N	Vanity lamp (Passenger side)
K02/N	Interior light	K06/N	Sliding roof unit
K03/N	Rear interior light	K07/N	Console (Sliding roof switch & console lamp)
K04/N	Vanity lamp (Driver side)		

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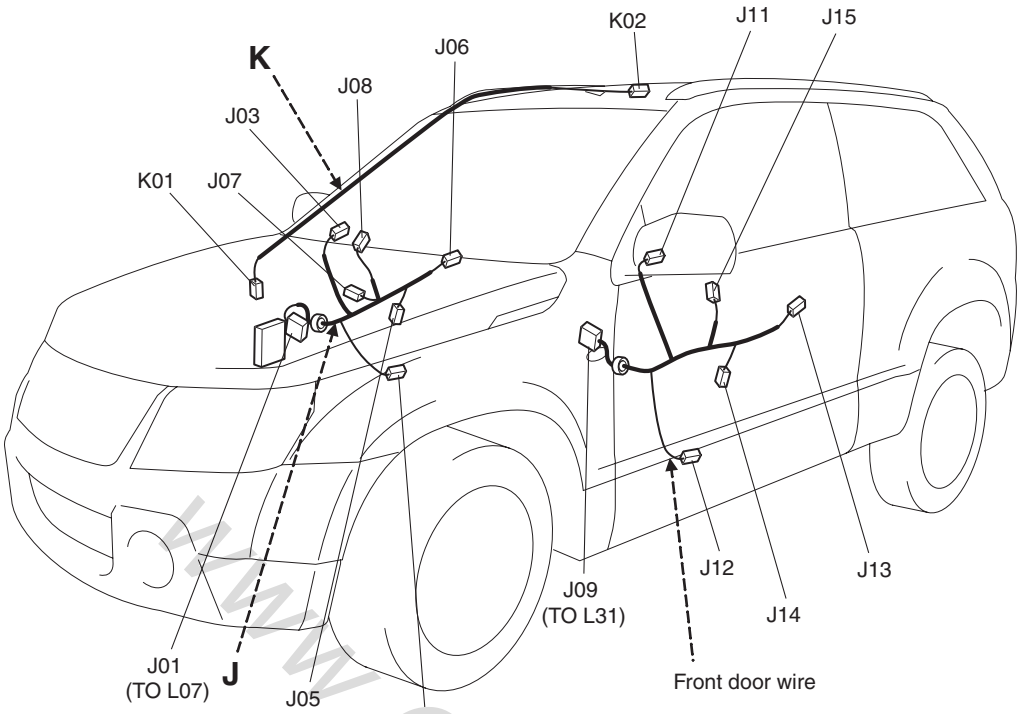
J: Front and rear door wire / K: Roof wire (RHD, 3dr)



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J: Front door wire (Drive side)

No./Color	Connective position	No./Color	Connective position
J01/GRY	Floor harness (To L07)	J06/N	Front door lock motor (Driver side)
J03/N	Power mirror motor (R)	J07/N	Power mirror switch (Driver side)
J04/N	Front speaker (R)	J08/GRY	Power window main switch
J05/BLK	Front power window motor (Driver side)		

J: Front door wire (Passenger side)

No./Color	Connective position	No./Color	Connective position
J09/GRY	Floor harness (To L31)	J13/N	Front door lock motor (Passenger side)
J11/N	Power mirror motor (L)	J14/BLK	Front power window motor (Passenger side)
J12/N	Front speaker (L)	J15/N	Power window sub switch

K: Roof wire

No./Color	Connective position	No./Color	Connective position
K01/N	J/B	K02/N	Interior light

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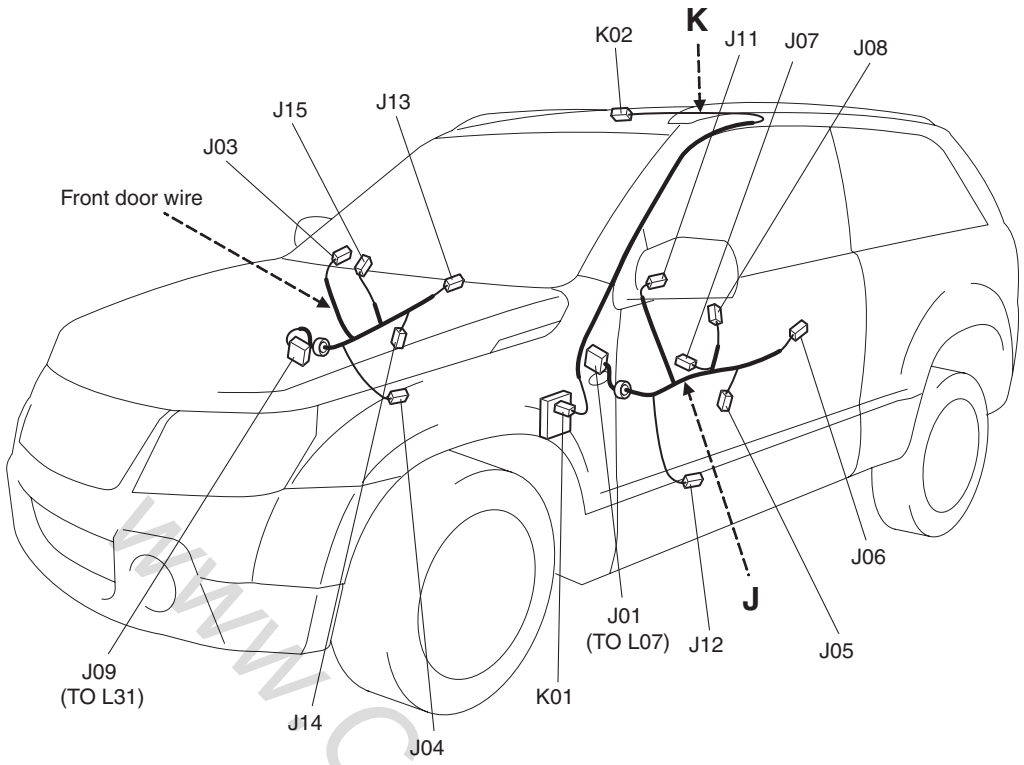
J: Front and rear door wire / K: Roof wire (LHD, 3dr)



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J: Front door wire (Drive side)

No./Color	Connective position	No./Color	Connective position
J01/GRY	Floor harness (To L07)	J06/N	Front door lock motor (Driver side)
J11/N	Power mirror motor (L)	J07/N	Power mirror switch (Driver side)
J12/N	Front speaker (L)	J08/GRY	Power window main switch
J05/BLK	Front power window motor (Driver side)		

J: Front door wire (Passenger side)

No./Color	Connective position	No./Color	Connective position
J09/GRY	Floor harness (To L31)	J13/N	Front door lock motor (Passenger side)
J03/N	Power mirror motor (R)	J14/BLK	Front power window motor (Passenger side)
J04/N	Front speaker (R)	J15/N	Power window sub switch

K: Roof wire

No./Color	Connective position	No./Color	Connective position
K01/N	J/B	K02/N	Interior light

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Floor

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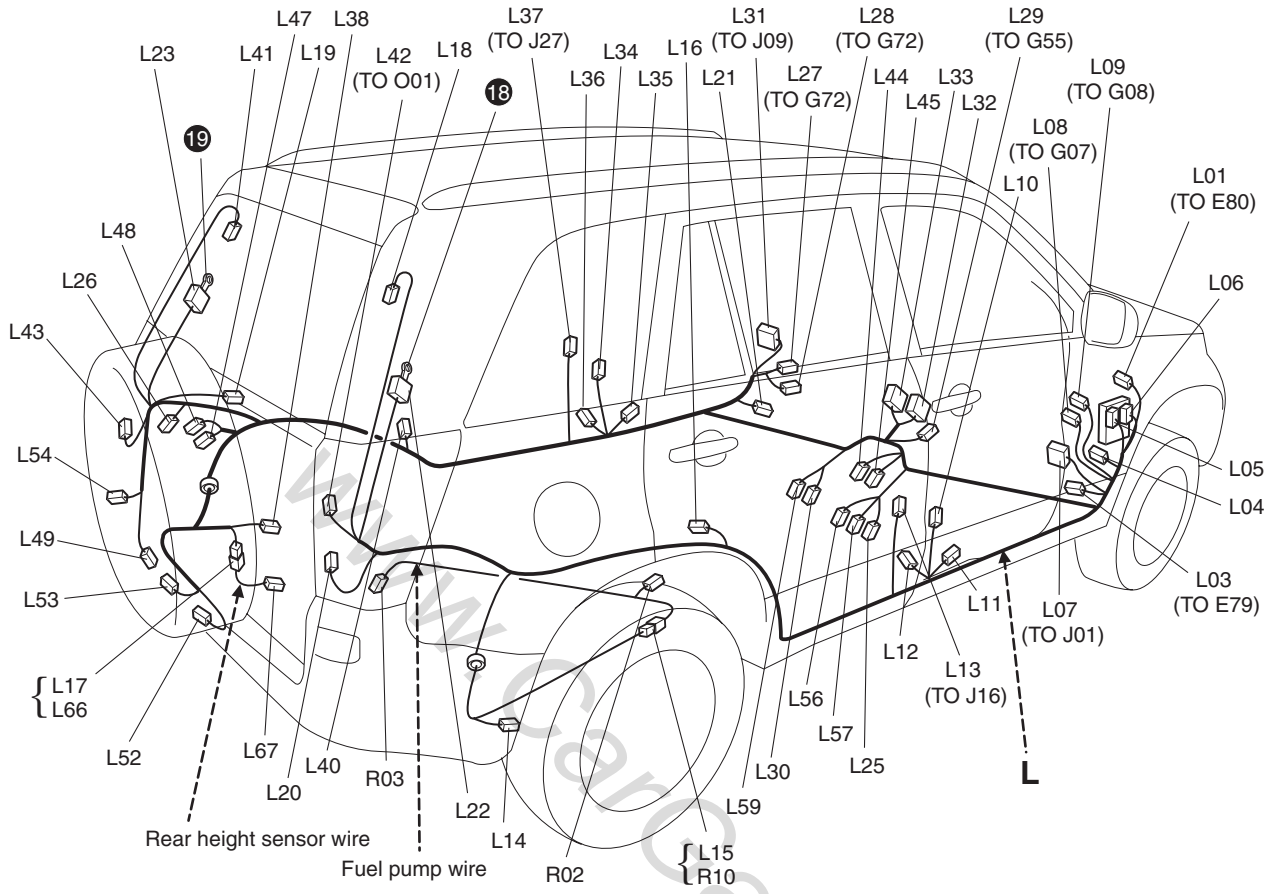
L: Floor harness, Rear height sensor wire / R: Fuel pump wire (RHD, 5dr)



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L: Floor harness

No./Color	Connective position	No./Color	Connective position
L01/N	Main harness (To E80)	L29/YEL	Instrument panel harness (To G55)
L03/YEL	Main harness (To E79)	L30/YEL	Side air-bag inflator (L)
L04/BLK	Turn signal relay	L31/GRY	Front door wire (Passenger side) (To J09)
L05/N	J/B	L32/YEL (With side A/B, Curtain A/B system)	A/B SDM
L06/N	J/B	L33/YEL (With side A/B, Curtain A/B system)	A/B SDM
L07/GRY	Front door wire (Driver side) (To J01)	L34/N	Front door switch (Passenger side)
L08/N	Instrument panel harness (To G07)	L35/YEL	Side air- bag sensor (L)
L09/BLU	Instrument panel harness (To G08)	L36/BLK	Pretensioner (Passenger side)
L10/N	Front door switch (Driver side)	L37/N	Rear door wire (L) (To J21)
L11/YEL	Side air-bag sensor (R)	L38/GRY	Wheel speed sensor (RL)
L12/BLK	Pretensioner (Driver side)	L40/N	Rear door switch (L)
L13/N	Rear door wire (R) (To J16)	L41/BLK	Side curtain air-bag (L)
L14/N	Wheel speed sensor (RR)	L42/N	Rear end door wire (To O01)
L15/GRY	Fuel pump wire (To R01)	L43/N	Rear combination lamp (L)
L16/N	Rear door switch (R)	L44/N	Keyless entry receiver
L17/GRY	Rear height sensor harness (To L66)	L45/BRN	Inside antenna
L18/BLK	Side curtain air-bag (R)	L47/N	ACC socket #1
L19/GRY	Luggage compartment light	L48/N	ACC socket #1
L20/N	Rear combination lamp (R)	L49/BRN	Luggage antenna

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No./Color	Connective position	No./Color	Connective position
L21/BLK	Diode #3	L52/N	Licence plate light #1
L22/N	J/C	L53/N	Licence plate light #2
L23/N	J/C	L54/N	Rear end door switch
L25/YEL	Side air-bag inflator (R)	L56/N	Seat belt switch (Without seat heater)
L26/N	Trailer	L57/N	Seat heater & Seat belt switch (Driver side)
L27/N	Instrument panel harness (To G72)	L59/N	Seat heater (Passenger side)
L28/N	Instrument panel harness (To G73)		

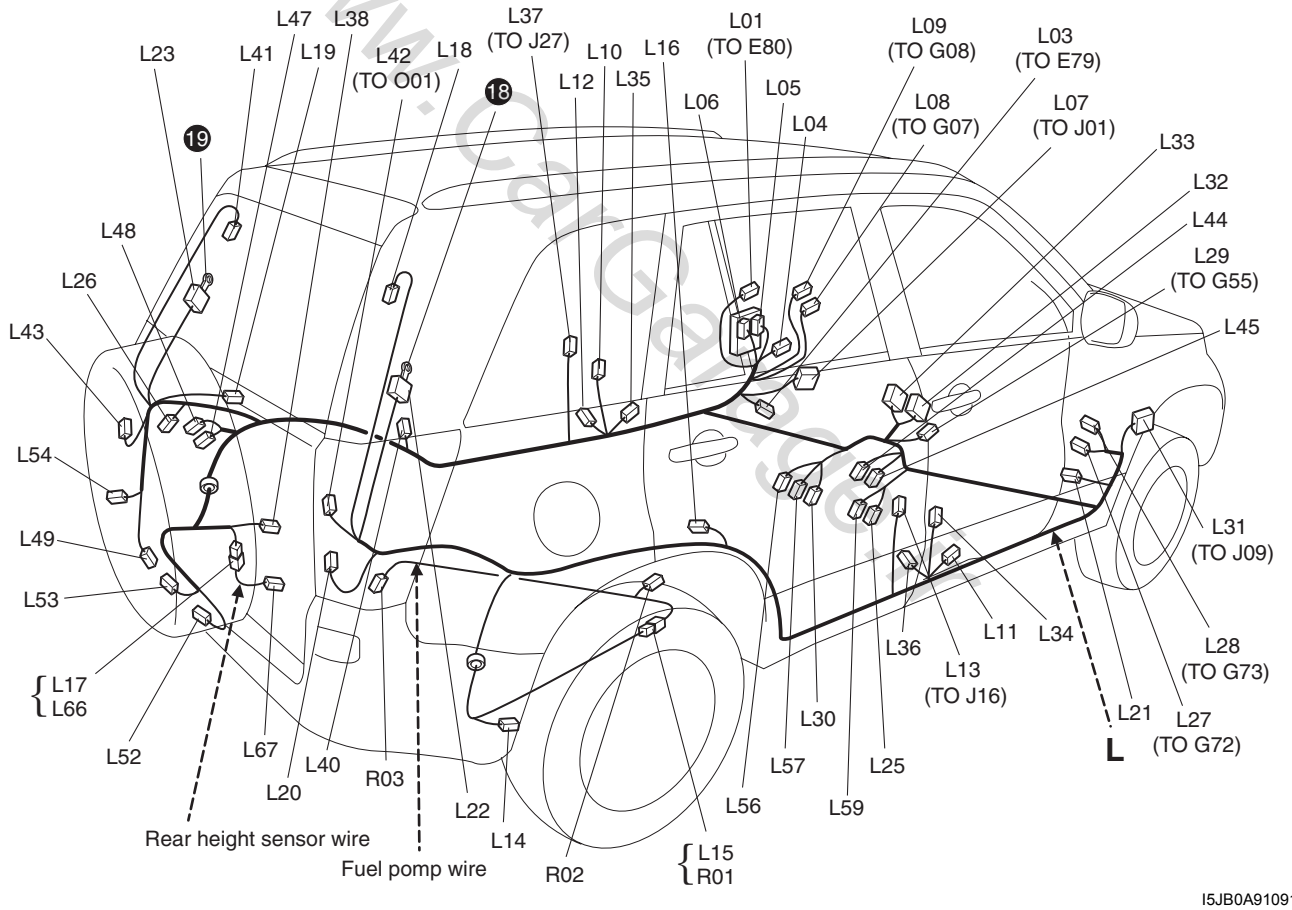
L: Rear height sensor wire

No./Color	Connective position	No./Color	Connective position
L66/N	Floor harness (To L17)	L67/BLK	Rear height sensor

R: Fuel pump wire

No./Color	Connective position	No./Color	Connective position
R01/GRY	Floor harness (To L15)	R03/N	Fuel pump sub gauge
R02/GRY	Fuel pump and gauge		

L: Floor harness, Rear height sensor wire / R: Fuel pump wire (LHD, 5dr)



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L: Floor harness

No./Color	Connective position	No./Color	Connective position
L01/N	Main harness (To E80)	L29/YEL	Instrument panel harness (To G55)
L03/YEL	Main harness (To E79)	L30/YEL	Side air-bag inflator (L)
L04/BLK	Turn signal relay	L31/GRY	Front door wire (Passenger side) (To J09)
L05/N	J/B	L32/YEL (With side A/B, Curtain A/B system)	A/B SDM
L06/N	J/B	L33/YEL (With side A/B, Curtain A/B system)	A/B SDM
L07/N	Front door wire (Driver side) (To J01)	L34/N	Front door switch (Passenger side)
L08/N	Instrument panel harness (To G07)	L35/YEL	Side air- bag sensor (L)
L09/BLU	Instrument panel harness (To G08)	L36/BLK	Pretensioner (Passenger side)
L10/N	Front door switch (Driver side)	L37/N	Rear door wire (L) (To J21)
L11/YEL	Side air-bag sensor (R)	L38/GRY	Wheel speed sensor (RL)
L12/BLK	Pretensioner (Driver side)	L40/N	Rear door switch (L)
L13/N	Rear door wire (R) (To J16)	L41/BLK	Side curtain air-bag (L)
L14/N	Wheel speed sensor (RR)	L42/N	Rear end door wire (To O01)
L15/GRY	Fuel pump wire (To R01)	L43/N	Rear combination lamp (L)
L16/N	Rear door switch (R)	L44/N	Keyless entry receiver
L17/GRY	Rear height sensor harness (To L66)	L45/BRN	Inside antenna
L18/BLK	Side curtain air-bag (R)	L47/N	ACC socket #1
L19/GRY	Luggage compartment light	L48/N	ACC socket #1
L20/N	Rear combination lamp (R)	L49/BRN	Luggage antenna
L21/BLK	Diode #3	L52/N	Licence plate light #1
L22/N	J/C	L53/N	Licence plate light #2
L23/N	J/C	L54/N	Rear end door switch
L25/YEL	Side air-bag inflator (R)	L56/N	Seat belt switch (Without seat heater)
L26/N	Trailer	L57/N	Seat heater & Seat belt switch (Driver side)
L27/N	Instrument panel harness (To G72)	L59/N	Seat heater (Passenger side)
L28/N	Instrument panel harness (To G73)		

L: Rear height sensor wire

No./Color	Connective position	No./Color	Connective position
L66/N	Floor harness (To L17)	L67/BLK	Rear height sensor

R: Fuel pump wire

No./Color	Connective position	No./Color	Connective position
R01/GRY	Floor harness (To L15)	R03/N	Fuel pump sub gauge
R02/GRY	Fuel pump and gauge		

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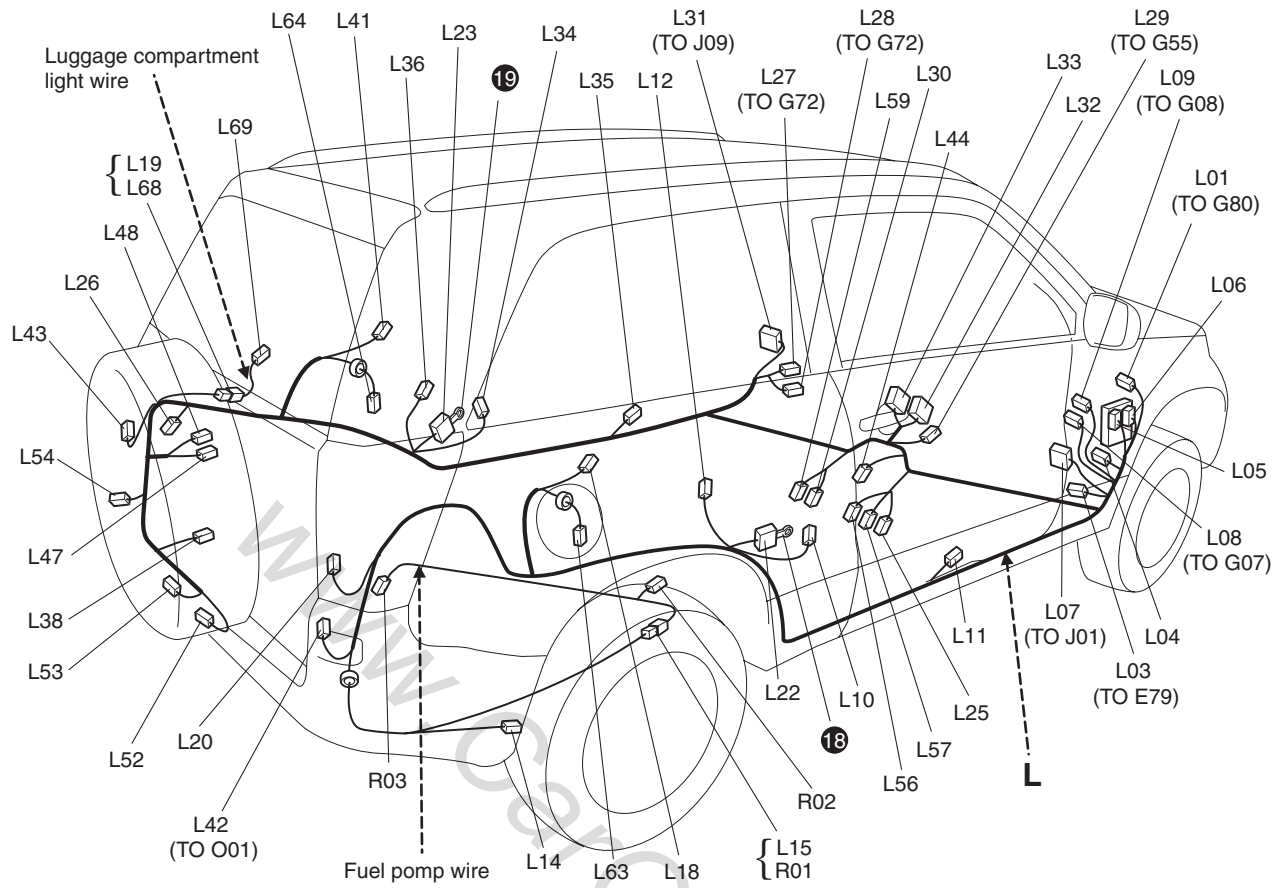
L: Floor harness, Luggage compartment light wire, Rear height sensor wire / R: Fuel pump wire (RHD, 3dr)



L: Floor harness

No./Color	Connective position	No./Color	Connective position
L01/N	Main harness (To E80)	L30/YEL	Side air-bag inflator (L)
L03/YEL	Main harness (To E79)	L31/GRY	Front door wire (Passenger side) (To J09)
L04/BLK	Turn signal relay	L32/YEL (With side A/B, Curtain A/B system)	A/B SDM
L05/N	J/B	L33/YEL (With side A/B, Curtain A/B system)	A/B SDM
L06/N	J/B	L34/N	Front door switch (Passenger side)
L07/GRY	Front door wire (Driver side) (To J01)	L35/YEL	Side air- bag sensor (L)
L08/N	Instrument panel harness (To G07)	L36/BLK	Pretensioner (Passenger side)
L09/BLU	Instrument panel harness (To G08)	L38/GRY	Wheel speed sensor (RL)
L10/N	Front door switch (Driver side)	L41/BLK	Side curtain air-bag (Passenger side)
L11/YEL	Side air-bag sensor (R)	L42/N	Rear end door wire (To O01)
L12/BLK	Pretensioner (Driver side)	L43/N	Rear combination lamp (L)
L14/N	Wheel speed sensor (RR)	L44/N	Keyless entry receiver
L15/GRY	Fuel pump wire (To R01)	L47/N	ACC socket #1
L18/BLK	Side curtain air-bag (Driver side)	L48/N	ACC socket #1
L19/N	Luggage compartment light wire (To L68)	L52/N	Licence plate light #1
L20/N	Rear combination lamp (R)	L53/N	Licence plate light #2
L22/N	J/C	L54/N	Rear end door switch
L23/N	J/C	L56/N	Seat belt switch (Without seat heater)
L25/YEL	Side air-bag inflator (R)	L57/N	Seat heater & Seat belt switch (Driver side)
L26/N	Trailer	L59/N	Seat heater (Passenger side)

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No./Color	Connective position	No./Color	Connective position
L27/N	Instrument panel harness (To G72)	L63/N	Rear speaker (R)
L28/N	Instrument panel harness (To G73)	L64/N	Rear speaker (L)
L29/YEL	Instrument panel harness (To G55)		

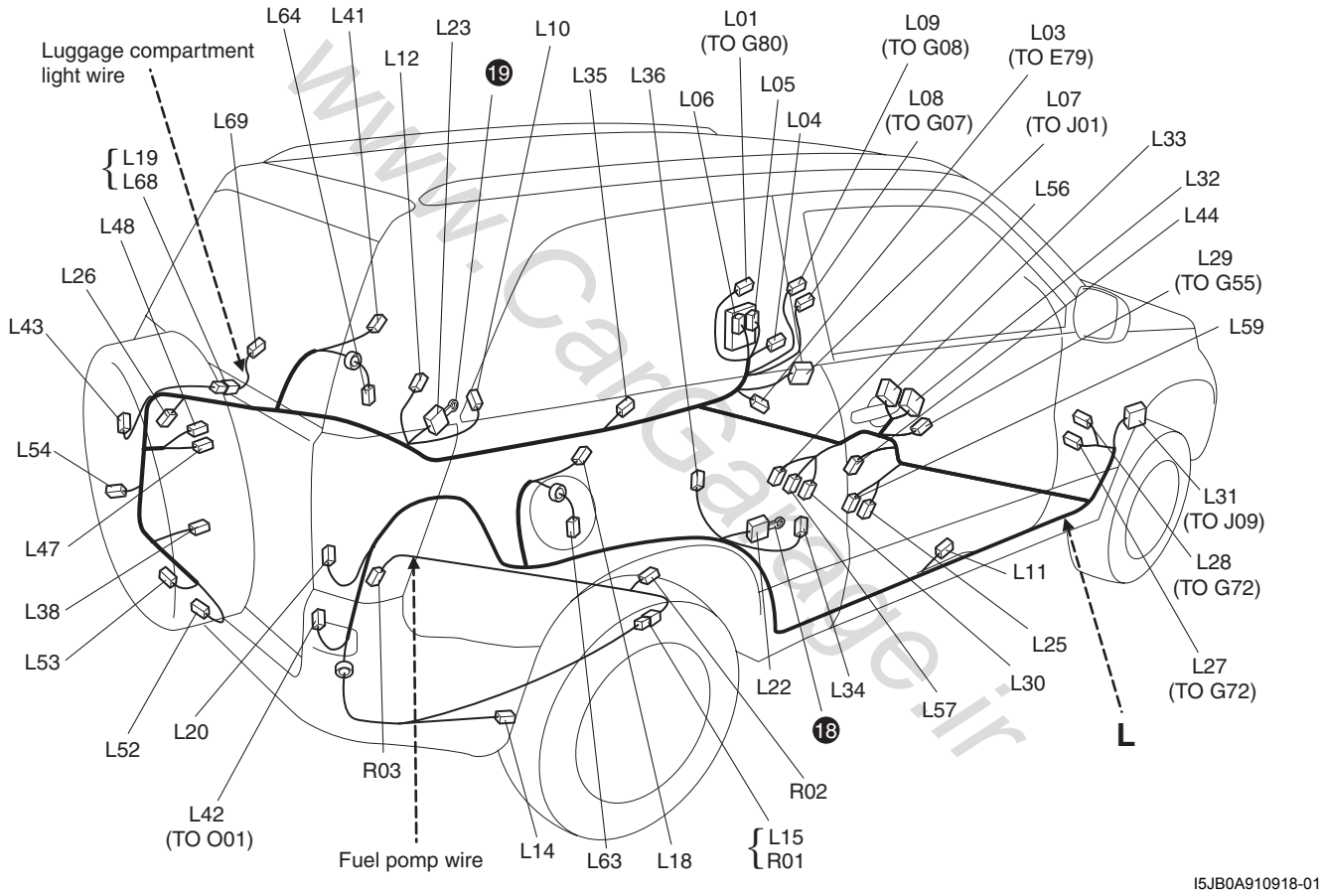
L: Luggage compartment light wire

No./Color	Connective position	No./Color	Connective position
L68/N	Floor harness (To L19)	L69/N	Luggage compartment light

R: Fuel pump wire

No./Color	Connective position	No./Color	Connective position
R01/GRY	Floor harness (To L15)	R03/N	Fuel pump sub gauge
R02/GRY	Fuel pump and gauge		

L: Floor harness, Luggage compartment light wire, Rear height sensor wire / R: Fuel pump wire (LHD, 3dr)



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L: Floor harness

No./Color	Connective position	No./Color	Connective position
L01/N	Main harness (To E80)	L30/YEL	Side air-bag inflator (L)
L03/YEL	Main harness (To E79)	L31/GRY	Front door wire (Passenger side) (To J09)
L04/BLK	Turn signal relay	L32/YEL (With side A/B, Curtain A/B system)	A/B SDM
L05/N	J/B	L33/YEL (With side A/B, Curtain A/B system)	A/B SDM
L06/N	J/B	L34/N	Front door switch (Passenger side)
L07/GRY	Front door wire (Driver side) (To J01)	L35/YEL	Side air- bag sensor (L)
L08/N	Instrument panel harness (To G07)	L36/BLK	Pretensioner (Passenger side)
L09/BLU	Instrument panel harness (To G08)	L38/GRY	Wheel speed sensor (RL)
L10/N	Front door switch (Driver side)	L41/BLK	Side curtain air-bag (Passenger side)
L11/YEL	Side air-bag sensor (R)	L42/N	Rear end door wire (To O01)
L12/BLK	Pretensioner (Driver side)	L43/N	Rear combination lamp (L)
L14/N	Wheel speed sensor (RR)	L44/N	Keyless entry receiver
L15/GRY	Fuel pump wire (To R01)	L47/N	ACC socket #1
L18/BLK	Side curtain air-bag (Driver side)	L48/N	ACC socket #1
L19/N	Luggage compartment light wire (To L68)	L52/N	Licence plate light #1
L20/N	Rear combination lamp (R)	L53/N	Licence plate light #2
L22/N	J/C	L54/N	Rear end door switch
L23/N	J/C	L56/N	Seat belt switch
L25/YEL	Side air-bag inflator (R)	L57/N	Seat heater (Driver side)
L26/N	Trailer	L59/N	Seat heater (Passenger side)
L27/N	Instrument panel harness (To G72)	L63/N	Rear speaker (R)
L28/N	Instrument panel harness (To G73)	L64/N	Rear speaker (L)
L29/YEL	Instrument panel harness (To G55)		

L: Luggage compartment light wire

No./Color	Connective position	No./Color	Connective position
L68/N	Floor harness (To L19)	L69/N	Luggage compartment light

R: Fuel pump wire

No./Color	Connective position	No./Color	Connective position
R01/GRY	Floor harness (To L15)	R03/N	Fuel pump sub gauge
R02/GRY	Fuel pump and gauge		

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Rear

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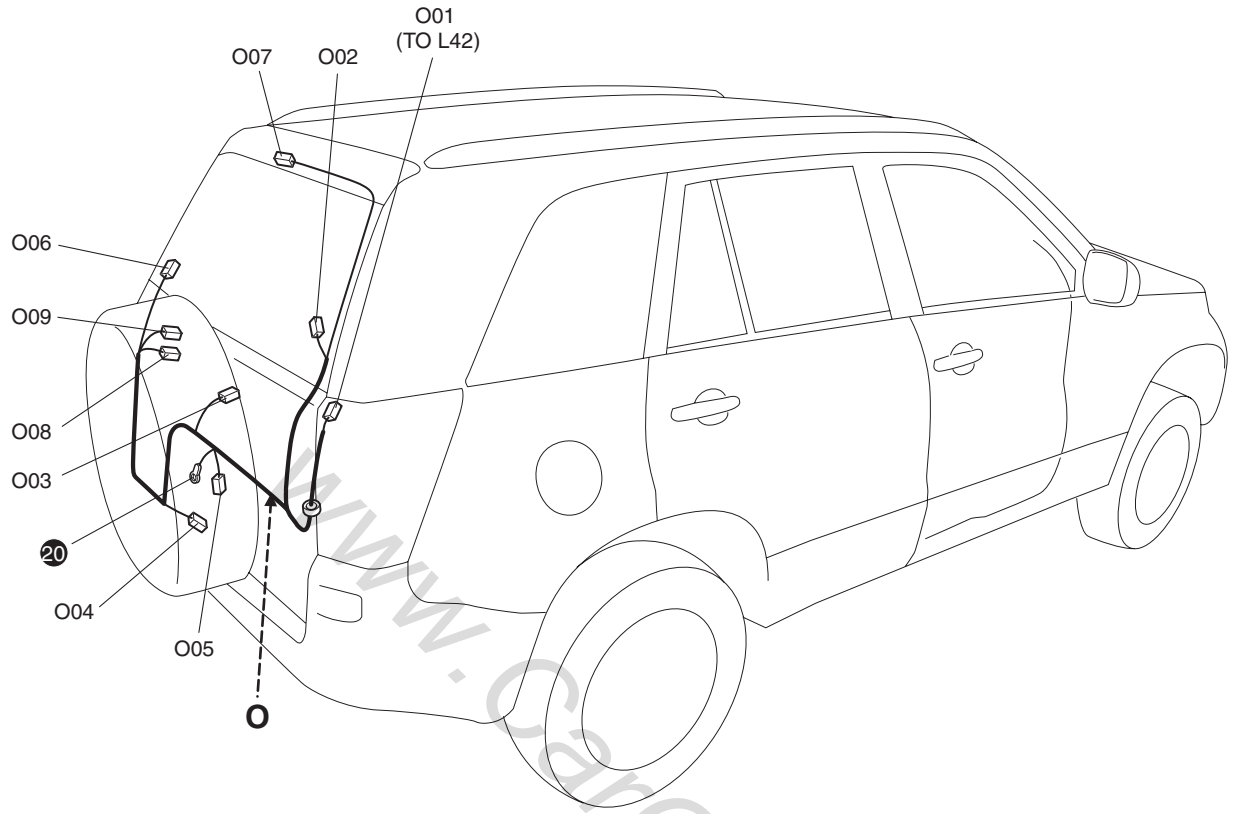
O: Rear end door harness



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O: Rear end door harness

No./Color	Connective position	No./Color	Connective position
O01/N	Floor harness (To L42)	O06/BLK	Rear defogger (–)
O02/BLK	Rear defogger (+)	O07/N	High mounted stop lamp
O03/N	Rear wiper motor	O08/N	Rear end antenna
O04/GRY	Rear end door lock motor	O09/N	Rear end door request switch
O05/N	Rear wiper relay		

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Ground Point

Ground (earth) Point

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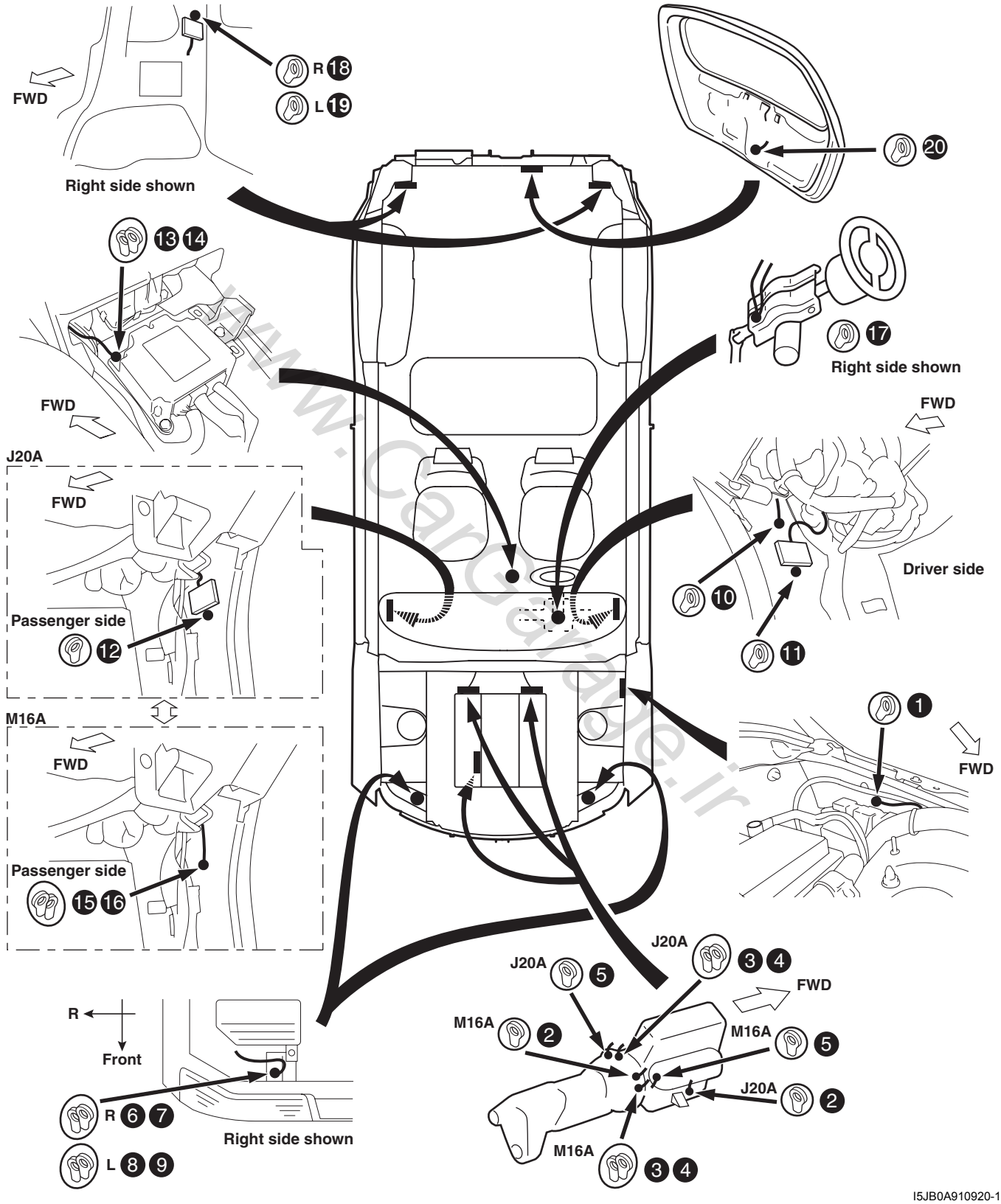
Refer to “Connector Layout Diagram: ”.



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Power Supply Diagram

Power Supply Diagram

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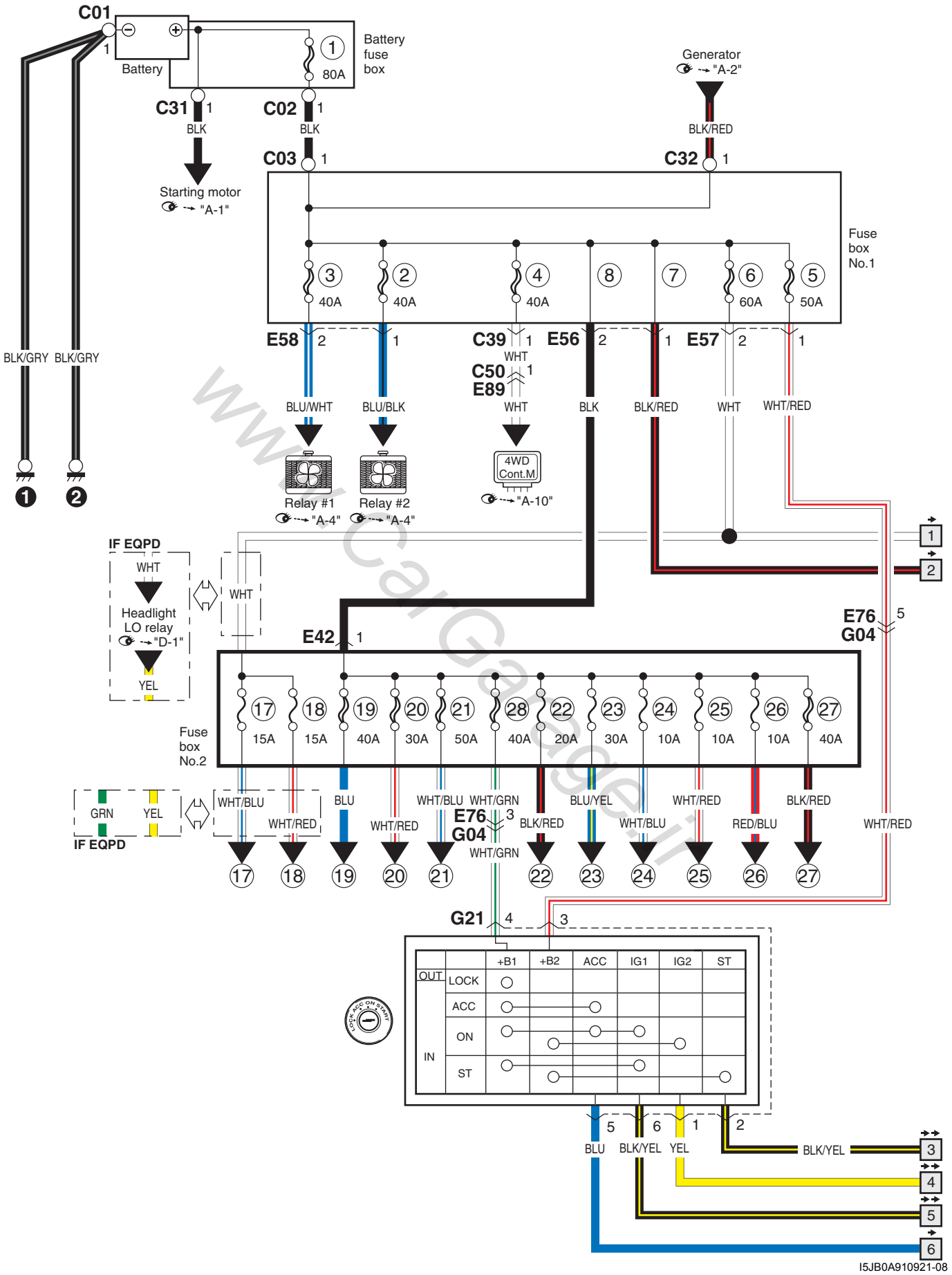

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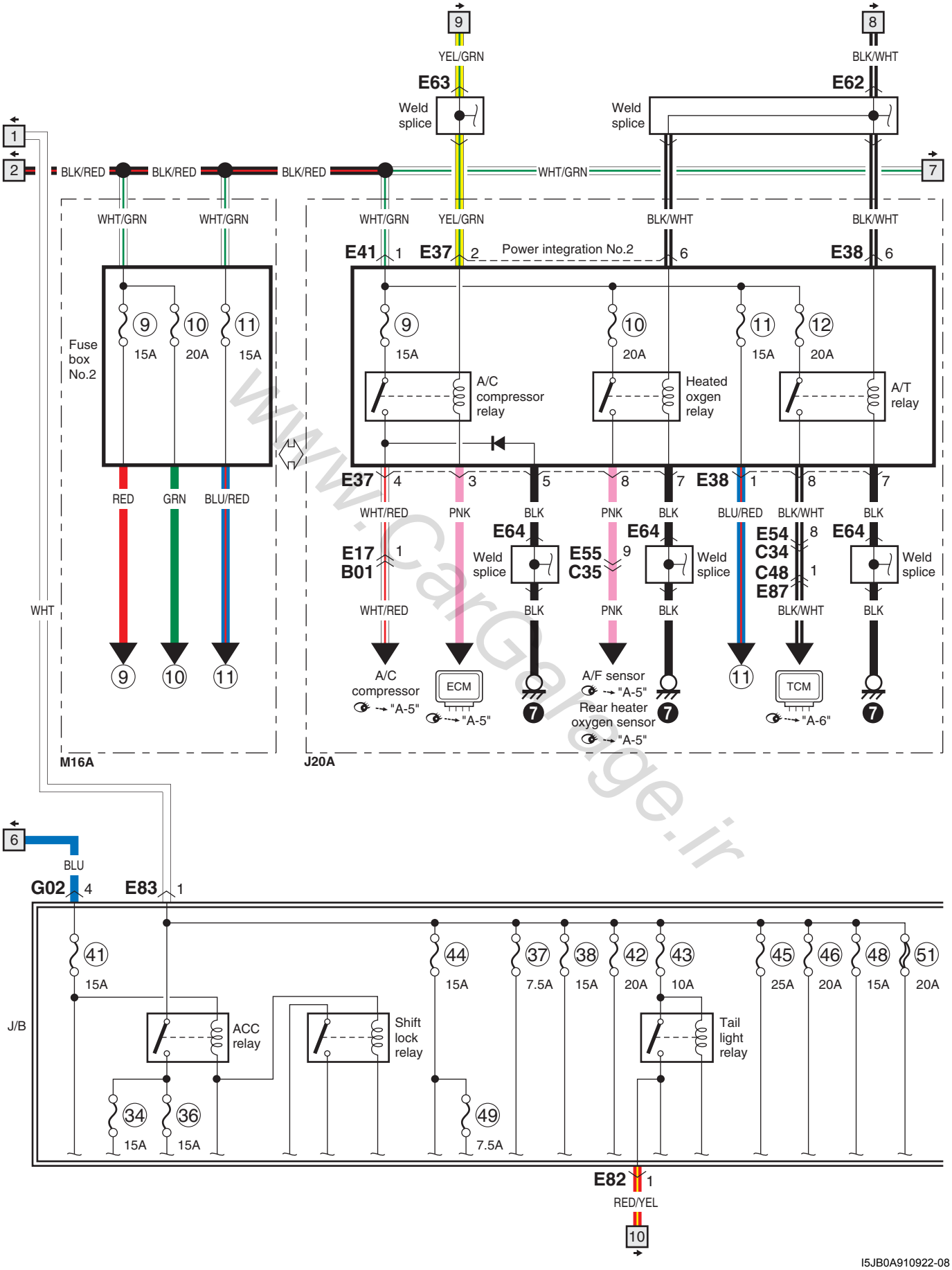

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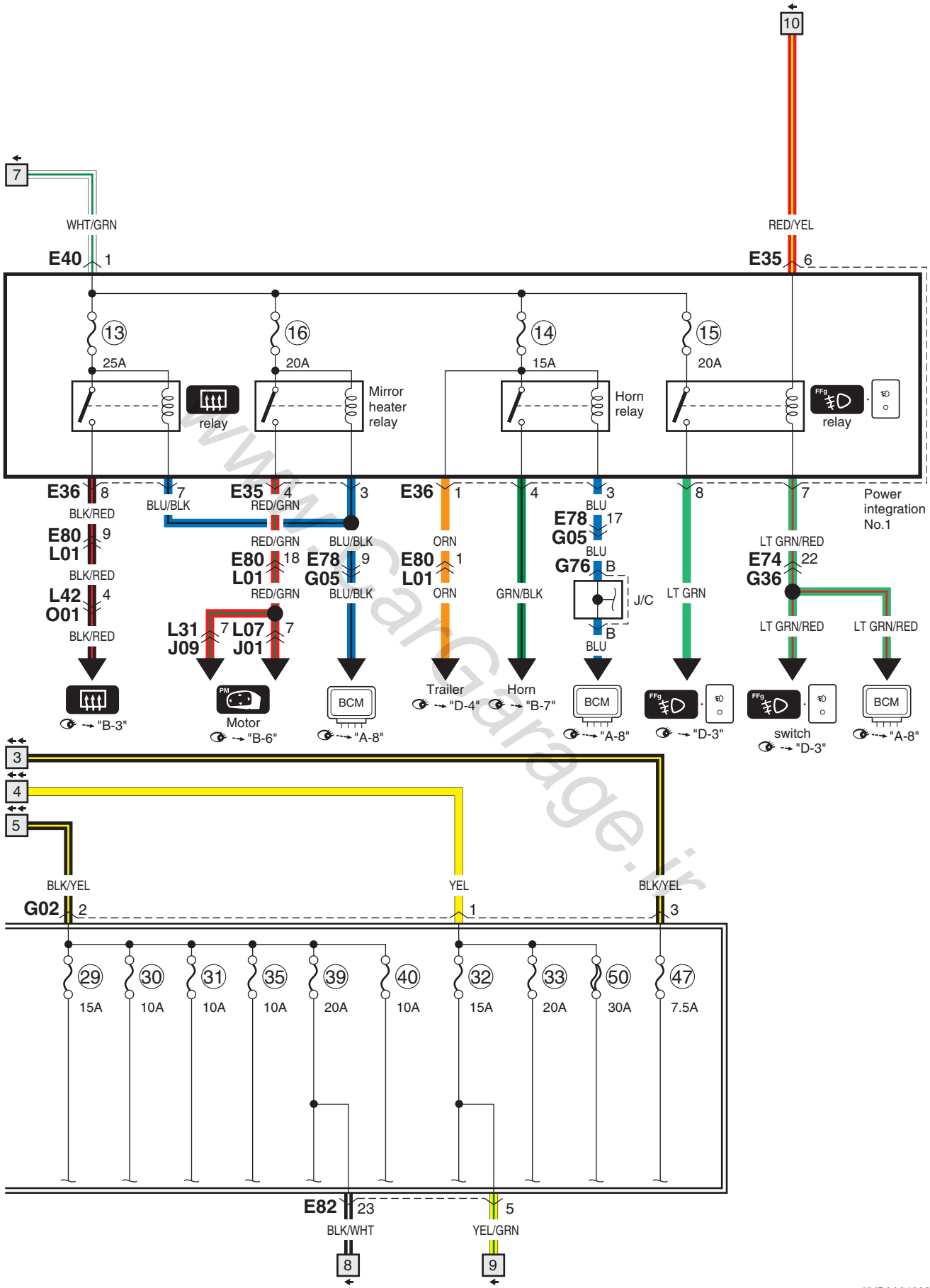

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Fuses and the Protected Parts

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The chart below describes what parts each fuse protects.

Fuses in Battery Fuse Box, Fuse Box No.1

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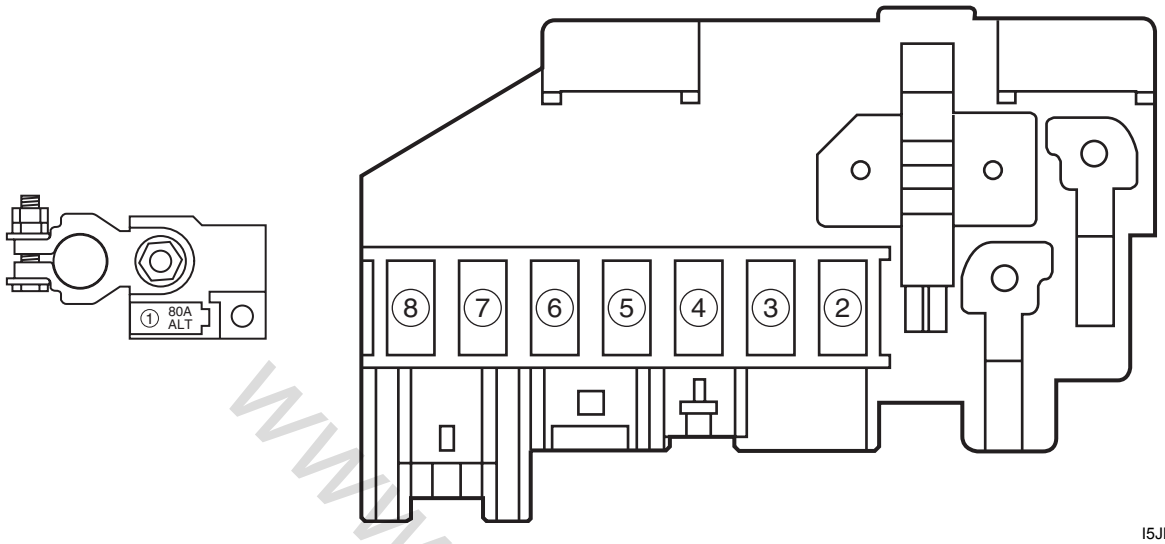

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No.	Fuse	Protected circuit
①	80 A	All electric circuit
		Battery
		Fuse box No.1
②	40 A	Radiator fan relay #2
③	40 A	Radiator fan relay #1
④	40 A	4WD control module
⑤	50 A	IG switch
⑥	60 A	Fuse box No.2
		Headlight LO relay
		J/B
⑦	NO FUSE	Power integration No.1
		Power integration No.2
		Fuse box No.2
⑧	NO FUSE	Fuse box No.2

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Fuse Box No.2 (In Power Integration No.1, Power Integration No.2), Relay Box

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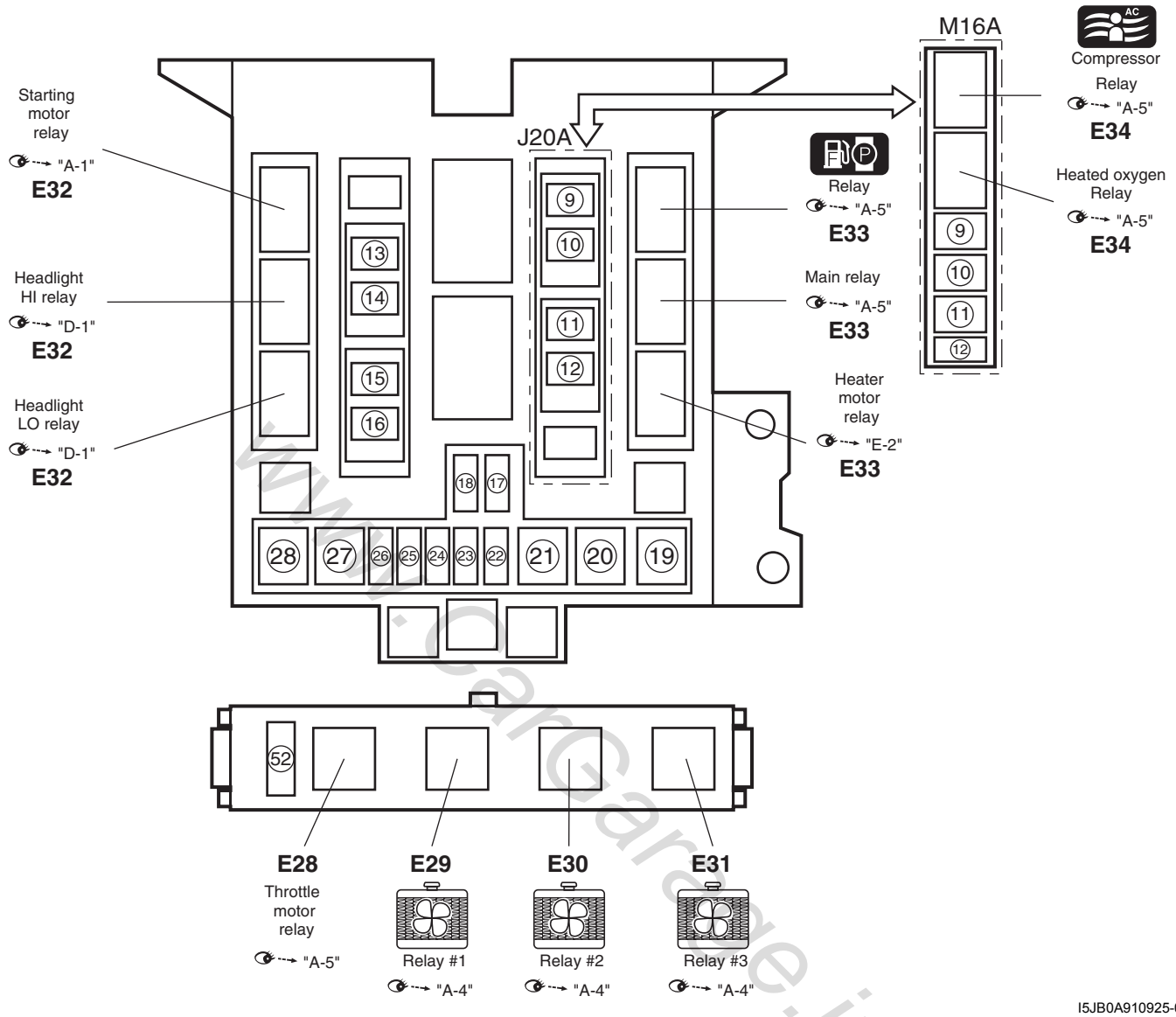

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No.	Fuse	Description on the cover	Protected circuit
⑨	15 A	CPRSR	A/C compressor relay
⑩	20 A	O2 HTR	Heated oxygen relay
⑪	15 A	THR MOT	Throttle motor relay
⑫	20 A	AT	A/T relay
⑬	25 A	RR DEF	Rear defogger relay
⑭	15 A	HORN	Horn relay
⑮	20 A	FR FOG	Front fog light relay
⑯	20 A	MRR HTR	Mirror heater relay
⑰	15 A	H/L LO L	Headlight LO (L) Headlight LO relay Headlight HID (L)
⑱	15 A	H/L LO R	Headlight LO (R) Headlight LO relay Headlight HID (R)
⑲	40 A	FR BLW	Heater motor relay
⑳	30 A	ABS2	ABS control module
㉑	50 A	ABS1	ABS control module
㉒	20 A	FI	Main relay
㉓	30 A	H/L CLNR	HLC motor

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No.	Fuse	Description on the cover	Protected circuit
㉔	10 A	H/L L	Headlight (L)
			Headlight HI (L)
㉕	10 A	H/L R	Headlight (R)
			Headlight HI (R)
㉖	10 A	H/L	Headlight HI relay
			Headlight LO relay
㉗	40 A	ST	Starting motor relay
㉘	40 A	IGN	IG switch
㊷	15 A	DI	BLANK

Fuse Box No.3 (In J/B)

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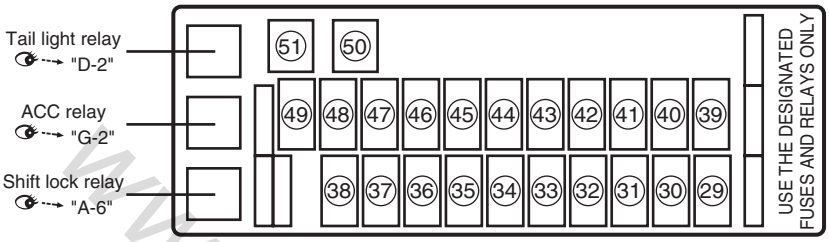

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No.	Fuse	Description on the cover	Protected circuit
㉙	15 A	A/B	A/B SDM
㉚	10 A	ABS/ESP	ABS control module
㉛	10 A	BACK	Smart ECM
			Back-up light switch
			Transmission range sensor
			Headlight beam leveling switch
			Headlight beam leveling actuator (L)
			Headlight beam leveling actuator (R)
			Auto leveling control module
㉜	15 A	IG2 SIG	Radiator fan relay #1
			Radiator fan relay #2
			Radiator fan relay #3
			A/C compressor relay
			Seat heater switch (Driver side)
			Seat heater switch (Passenger side)
			Sliding roof unit
			Heater motor relay
㉝	20 A	WIP	COMB switch
			Windshield washer motor
			Windshield wiper motor
			Rear washer motor
			Rear wiper motor
			Rear wiper relay
			Headlight cleaner control module
㉞	15 A	ACC2	Cigar lighter (ACC Socket #3)
㉟	10 A	CRUISE	Brake light switch
			Steering switch
㊱	15 A	ACC3	ACC socket #1
			ACC socket #2
㊲	7.5 A	RR FOG	COMB switch (Rear fog light)
㊳	15 A	STOP	Brake light switch

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No.	Fuse	Description on the cover	Protected circuit
㊴	20 A	IG COIL	Generator
			IG coil #1
			IG coil #2
			IG coil #3
			IG coil #4
			Noise filter
			ECM
			Fuel pump relay
			Heated oxygen relay
			A/T relay
			ICM
			4WD control module
㊵	10 A	METER	BCM
			COMB meter
			Turn signal relay
			Auto A/C unit
㊶	15 A	ACC	ACC relay
			BCM
			Power mirror switch
			Smart ECM
			Audio
			Multi information display
㊷	20 A	D/L	BCM
㊸	10 A	TAIL	Tail light relay
㊹	15 A	DOME	Audio
			Auto A/C unit
			ECM
			DLC
			TCM
			BCM
			Main switch
			Smart ECM
			Multi information display
			COMB meter
			Interior light
			Rear interior light
			Console lamp
			Luggage compartment light
			Curtain lamp (Driver side)
			Curtain lamp (Passenger side)
㊺	25 A	S/R	Sliding roof unit
㊻	20 A	RR BLW	BLANK
㊼	7.5 A	ST SIG	Starting motor relay
㊽	15 A	HAZ	Turn signal relay
㊾	7.5 A	VANITY	Vanity lamp (Driver side)
			Vanity lamp (passenger side)
㊿	30 A	P/W	Front power window main switch
			Front power window sub switch
			Rear power window sub switch (R)
			Rear power window sub switch (L)
(51)	20 A	P/W T	BLANK

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Junction Block (J/B) Connector / Fuse Layout

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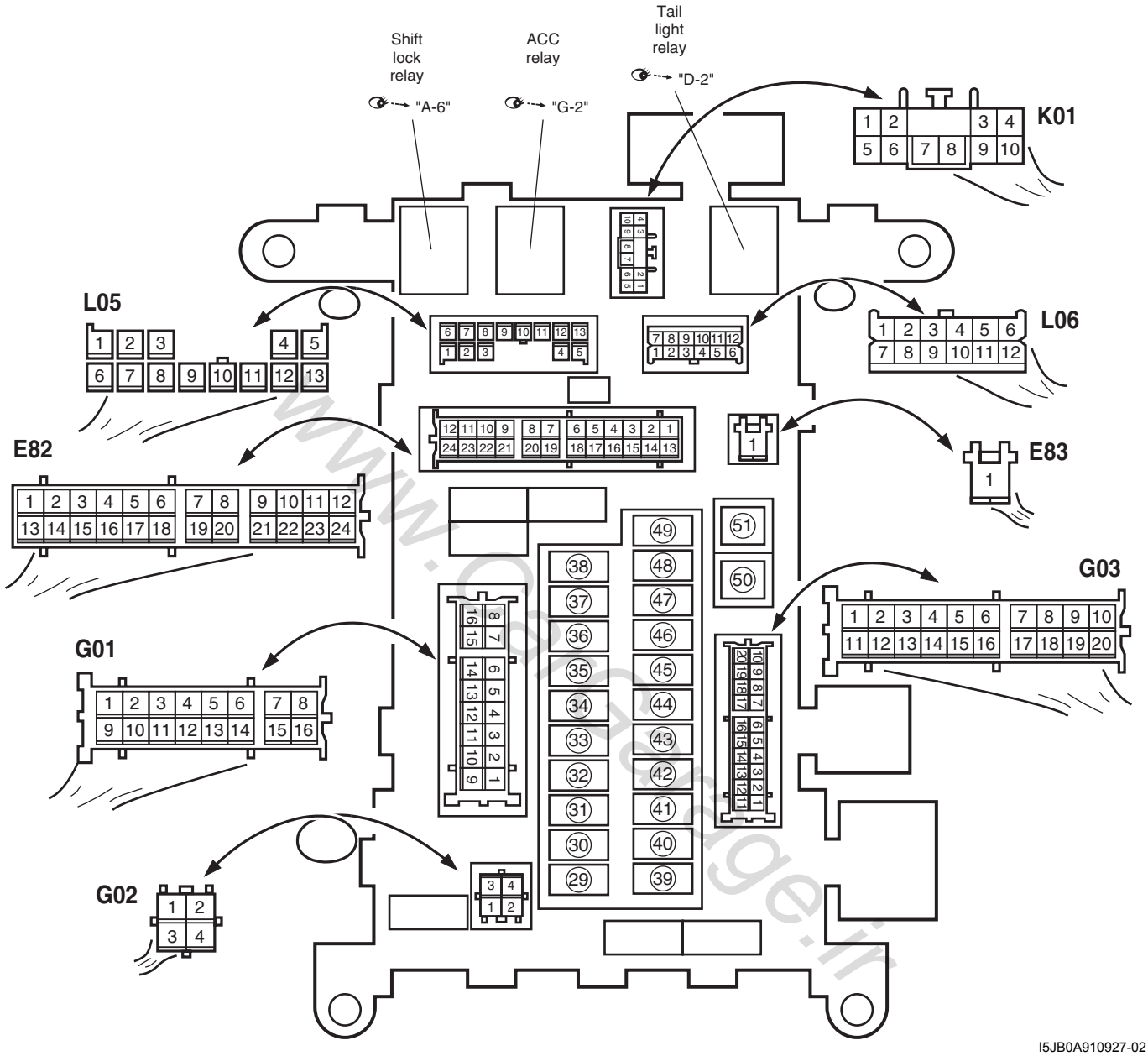
Fuse side



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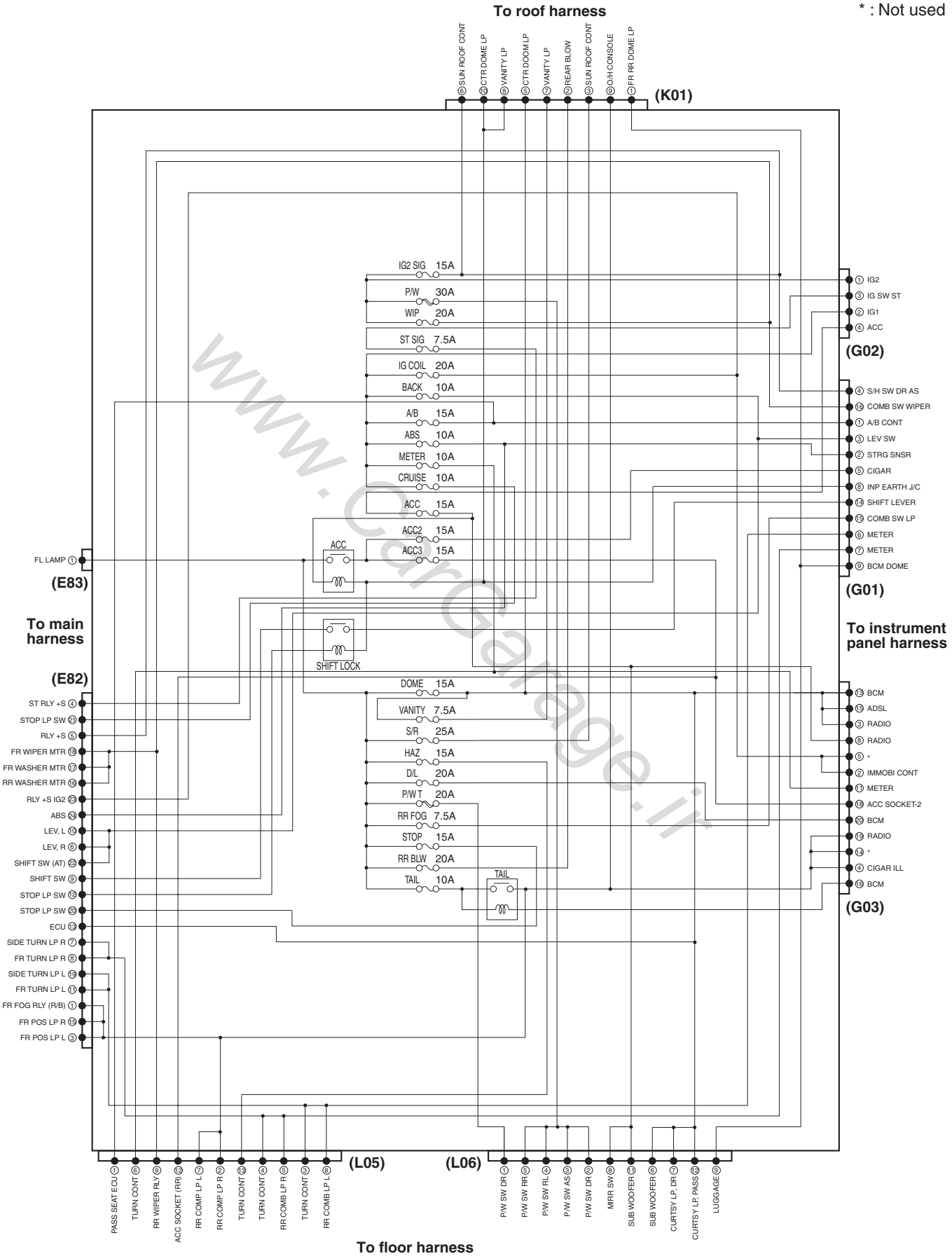
Junction Block Inner Circuit (Overview)

S5JB0A910D007

* : Not used



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Junction Block Inner Circuit (Detail)

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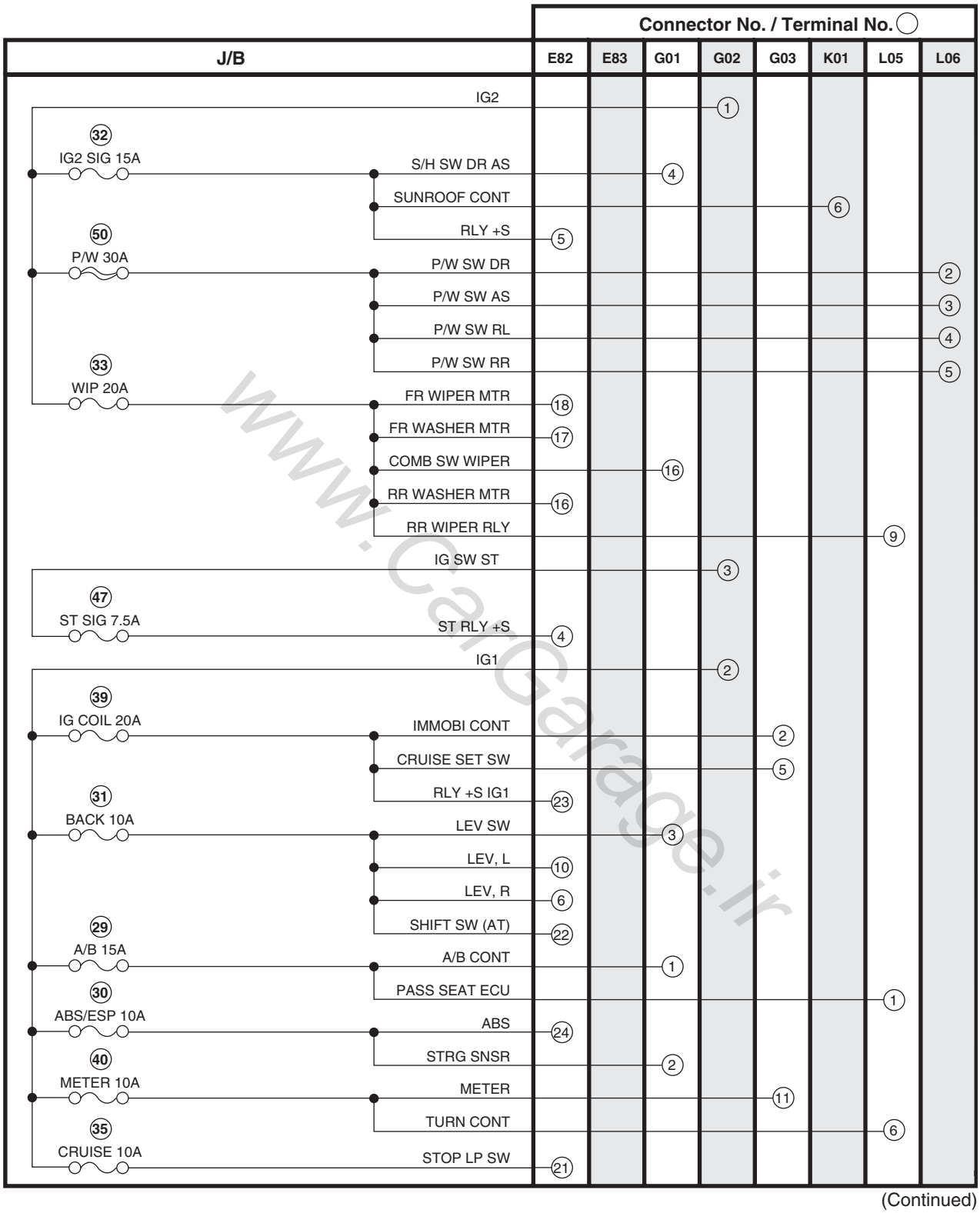

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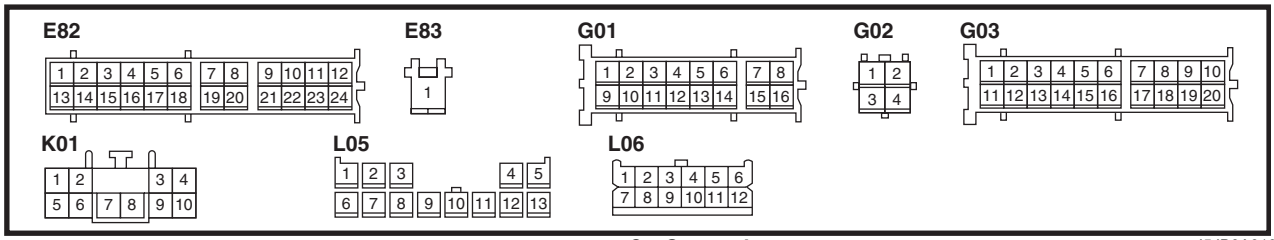

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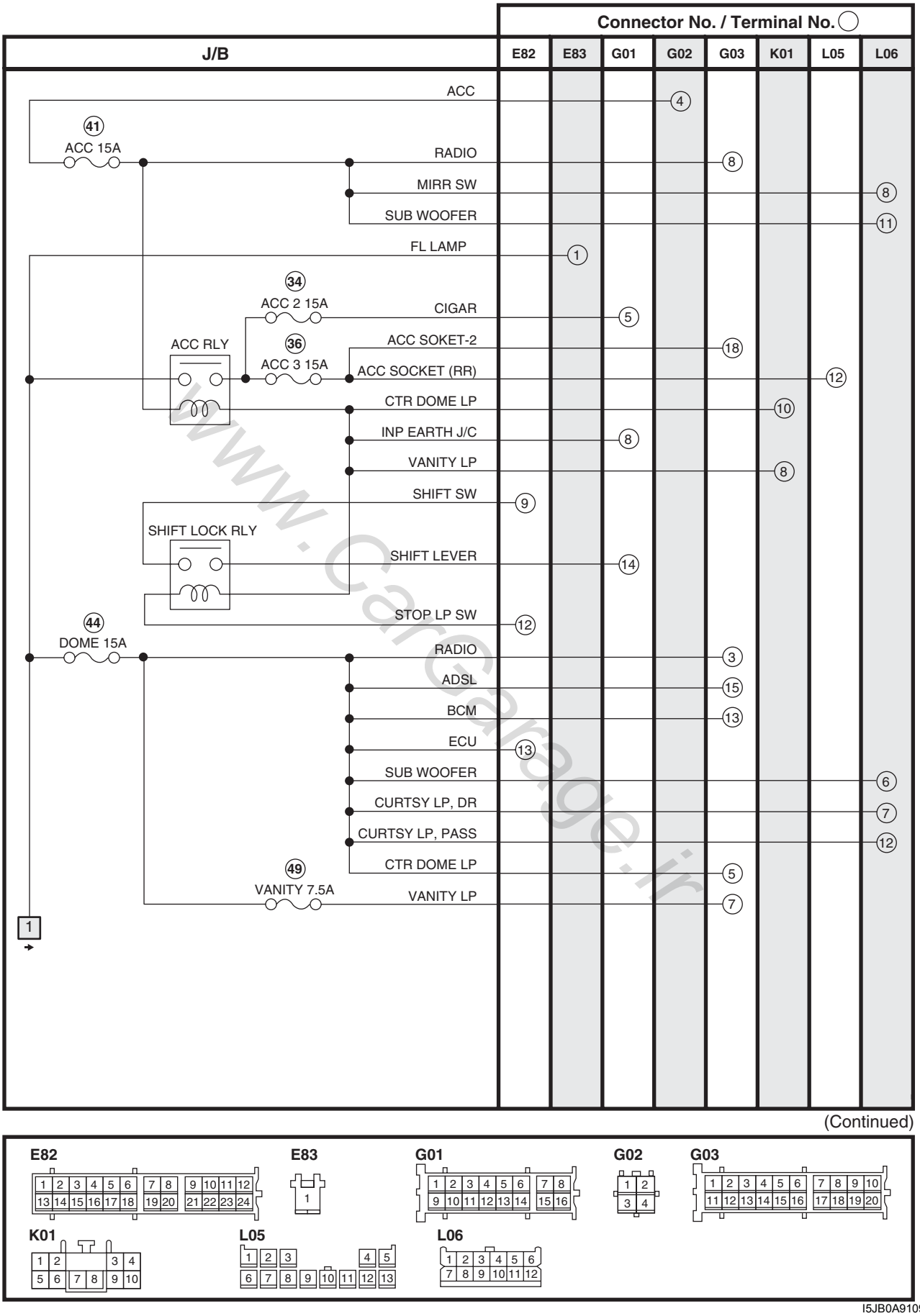

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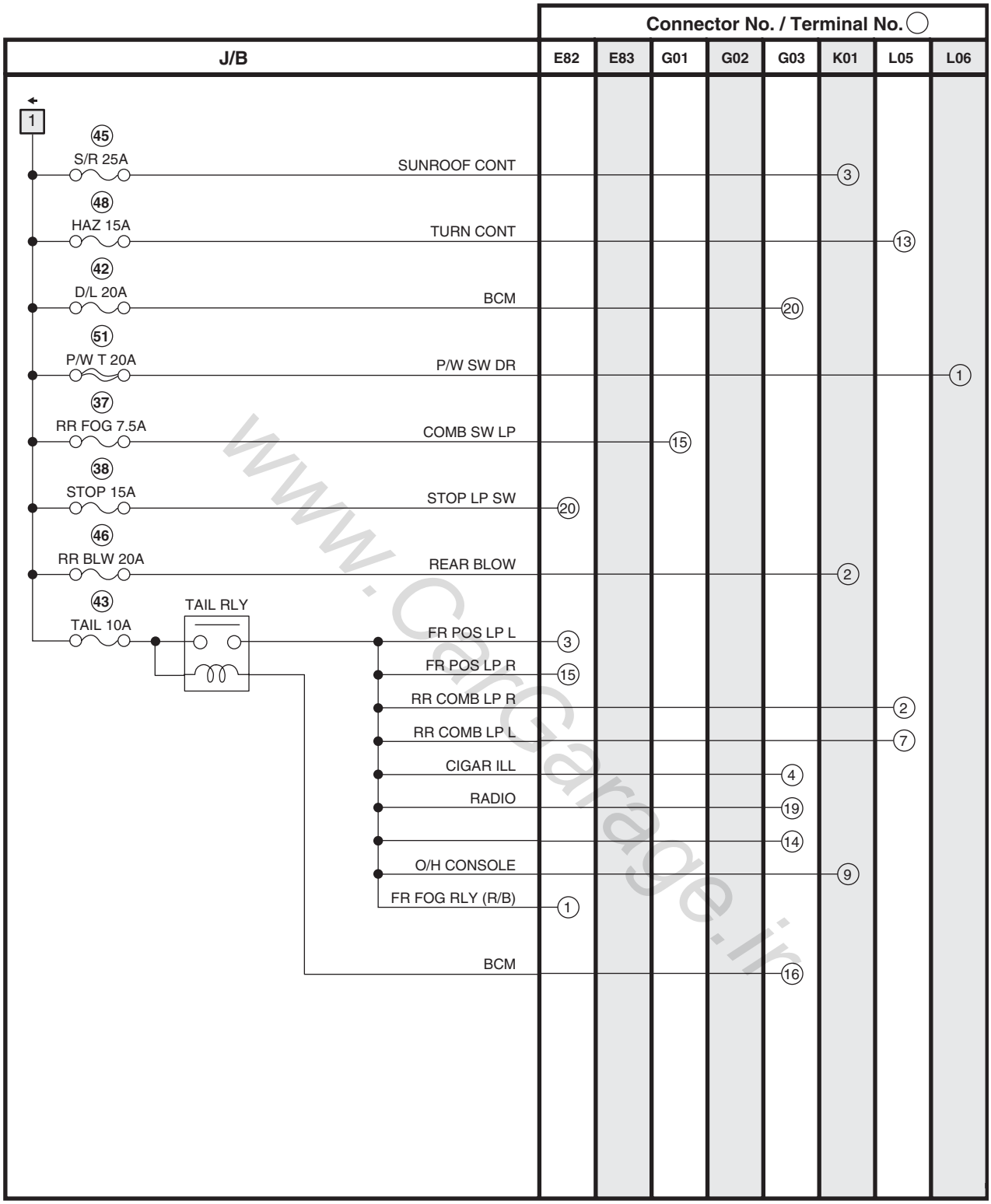

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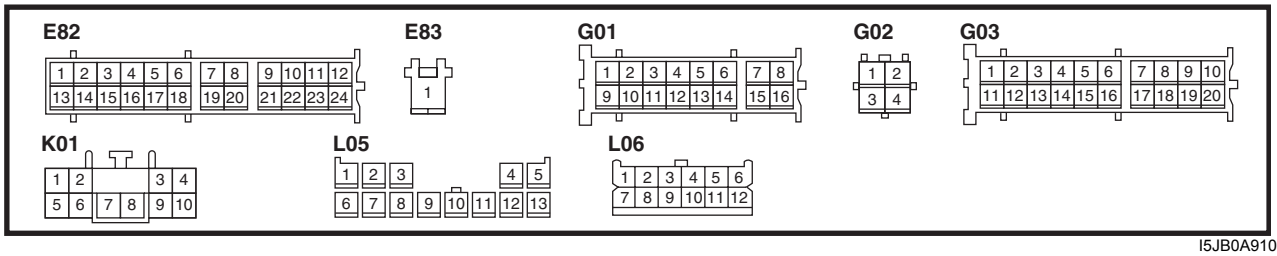

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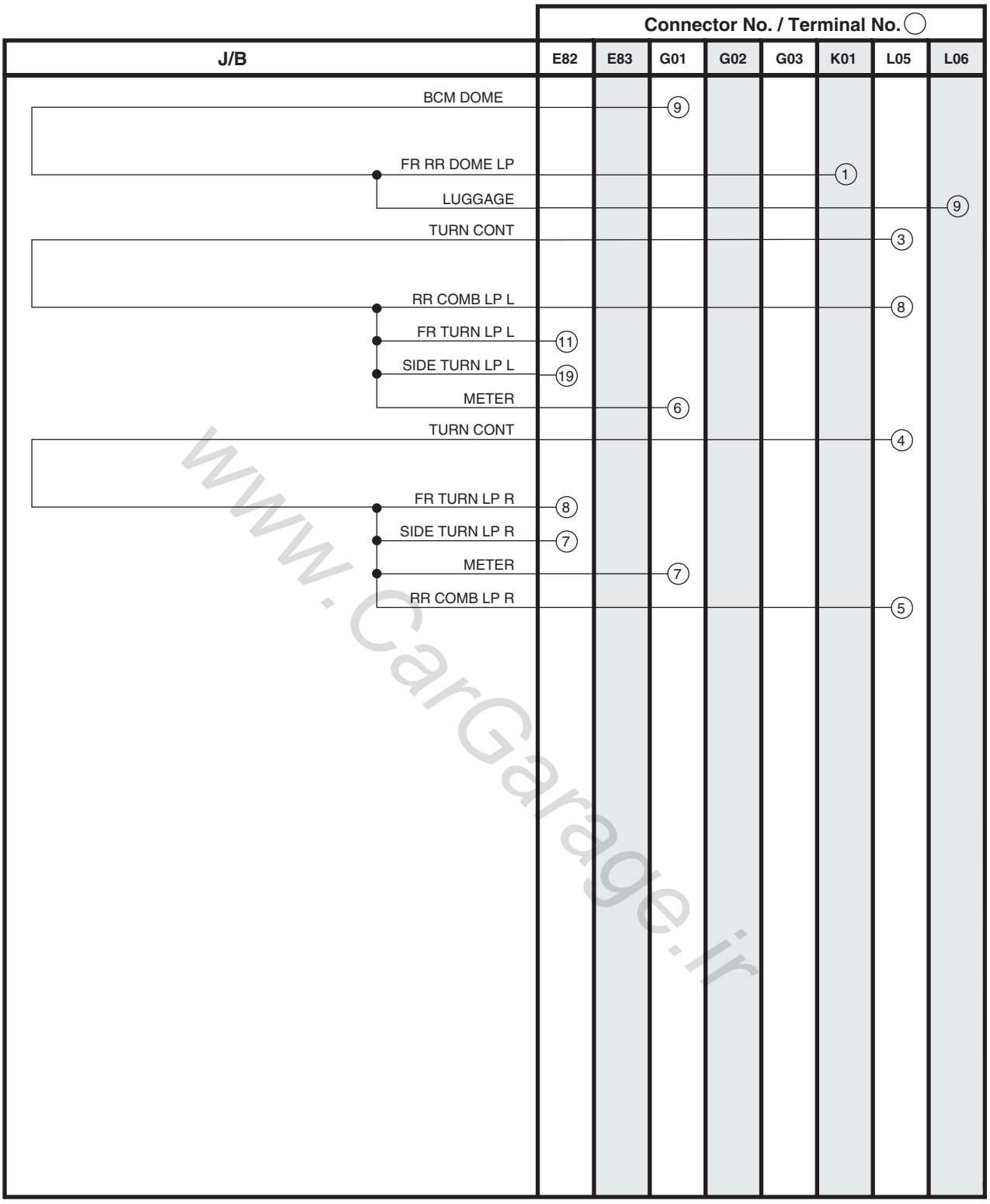

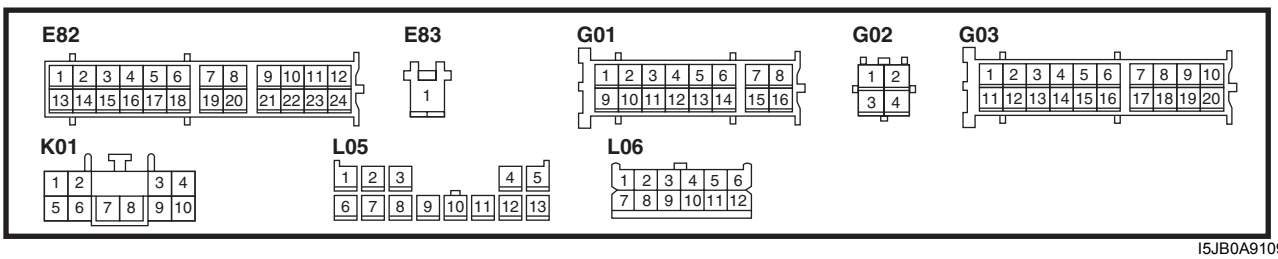

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System Circuit Diagram

System Circuit Diagram

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Refer to “A-1 Cranking System Circuit Diagram: ”.
Refer to “A-2 Charging System Circuit Diagram: ”.
Refer to “A-3 Ignition System Circuit Diagram (M16A): ”.
Refer to “A-3 Ignition System Circuit Diagram (J20A): ”.
Refer to “A-4 Cooling System Circuit Diagram: ”.
Refer to “A-5 Engine and A/C Control System Circuit Diagram (M16A): ”.
Refer to “A-5 Engine and A/C Control System Circuit Diagram (J20A): ”.
Refer to “A-6 A/T Control System Circuit Diagram: ”.
Refer to “A-7 Immobilizer System Circuit Diagram: ”.
Refer to “A-8 Body Control System Circuit Diagram: ”.
Refer to “A-10 4WD Control System Circuit Diagram: ”
Refer to “B-1 Windshield Wiper and Washer Circuit Diagram: ”.
Refer to “B-2 Rear Wiper and Washer Circuit Diagram: ”.
Refer to “B-3 Rear Defogger Circuit Diagram: ”.
Refer to “B-4 Power Window Circuit Diagram: ”.
Refer to “B-5 Power Door Lock Circuit Diagram: ”.
Refer to “B-6 Power Mirror Circuit Diagram: ”.
Refer to “B-7 Horn Circuit Diagram: ”.
Refer to “B-8 Seat Heater Circuit Diagram: ”
Refer to “B-9 Smart Key System Circuit Diagram: ”
Refer to “B-10 Sliding Roof Circuit Diagram: ”
Refer to “B-11 Headlight Cleaner Circuit Diagram: ”
Refer to “C-1 Combination Meter Circuit Diagram: ”.
Refer to “D-1 Headlight System Circuit Diagram (One bulb type): ”.
Refer to “D-1 Headlight System Circuit Diagram (With Projector light): ”.
Refer to “D-1 Headlight System Circuit Diagram (With Discharge bulb): ”.
Refer to “D-2 Position, Tail and Licence Plate Light System Circuit Diagram: ”.
Refer to “D-3 Front Fog Light System Circuit Diagram: ”.
Refer to “D-4 Illumination Light System Circuit Diagram: ”.
Refer to “D-5 Interior Light System Circuit Diagram: ”.
Refer to “D-6 Turn Signal and Hazard Warning Light System Circuit Diagram: ”.
Refer to “D-7 Brake Light System Circuit Diagram: ”.
Refer to “D-8 Back-Up Light System Circuit Diagram: ”.
Refer to “D-9 Headlight Beam Leveling System Circuit Diagram (Manual Leveling): ”
Refer to “D-9 Headlight Beam Leveling System Circuit Diagram (Auto Leveling): ”
Refer to “D-10 Rear Fog Light Circuit Diagram: ”
Refer to “E-2 Auto A/C System Circuit Diagram: ”
Refer to “F-1 Air-Bag System Circuit Diagram (Without side A/B and Curtain A/B): ”.
Refer to “F-1 Air-Bag System Circuit Diagram (With side A/B and Curtain A/B): ”.
Refer to “F-2 Anti-Lock Brake System Circuit Diagram: ”.
Refer to “G-1 Audio System Circuit Diagram: ”.
Refer to “G-2 Multi Information Display / Accessory Socket System Circuit Diagram: ”.
Refer to “G-4 Navigation System Circuit Diagram: ”

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A-1 Cranking System Circuit Diagram

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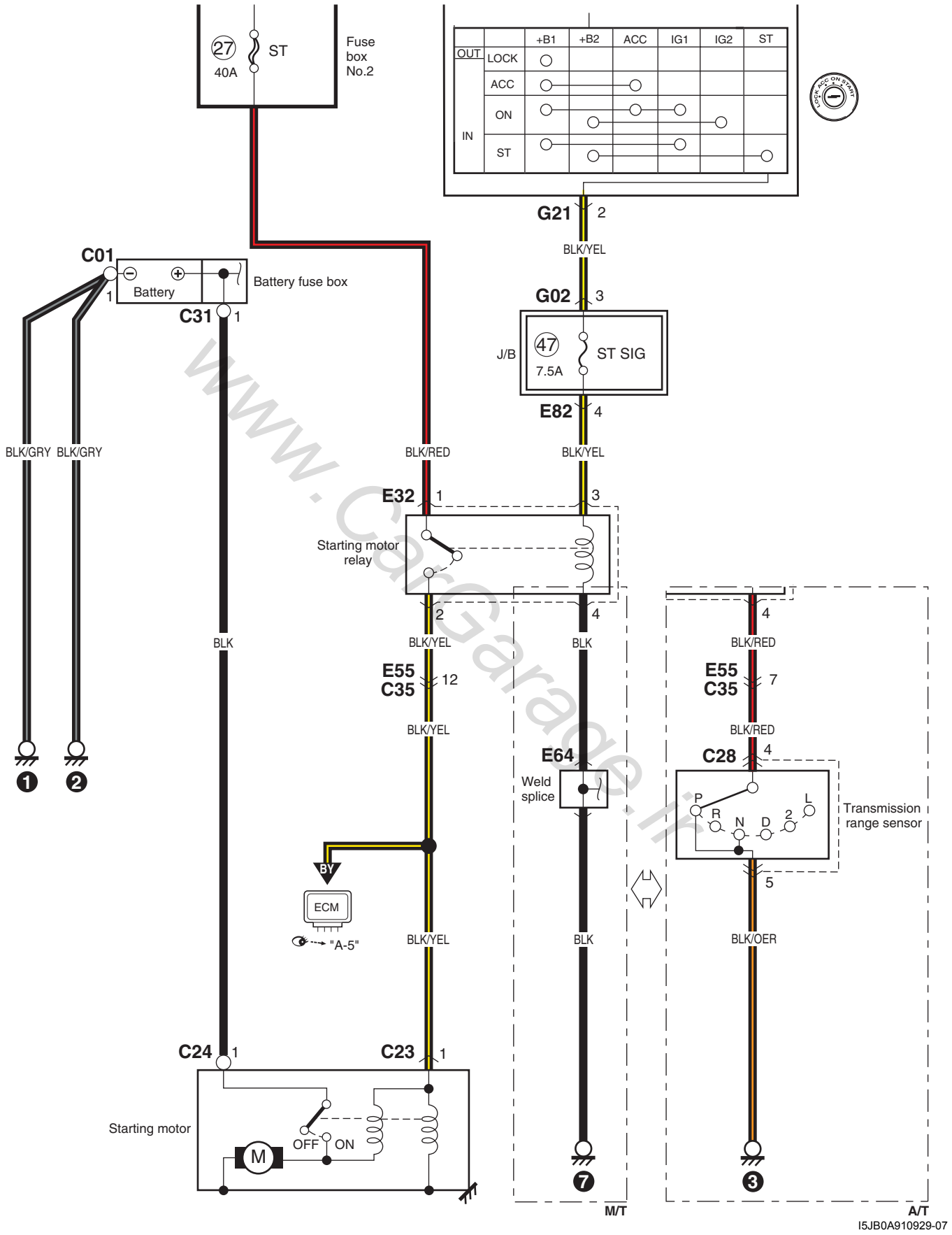

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A-2 Charging System Circuit Diagram

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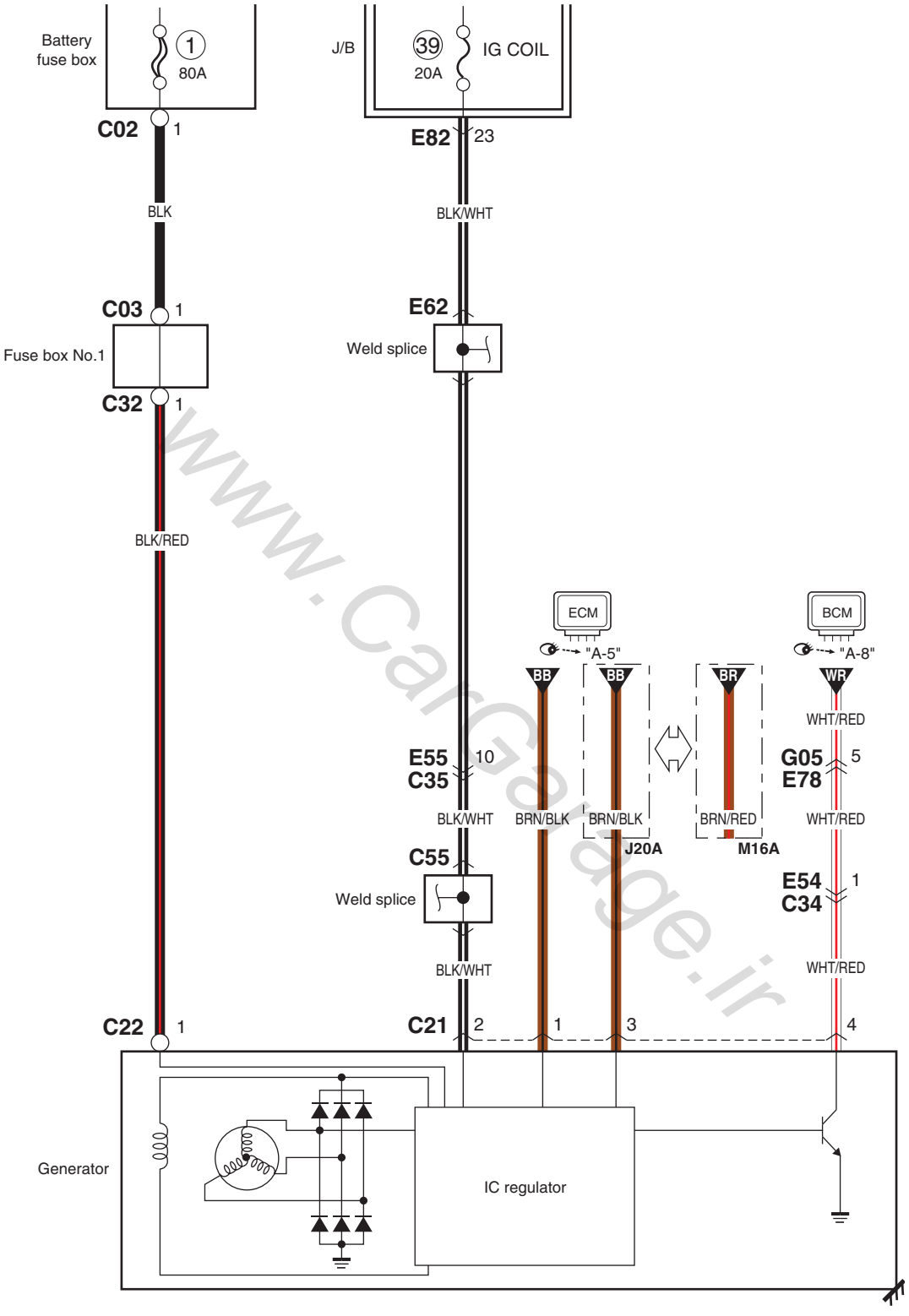

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A-3 Ignition System Circuit Diagram (M16A)

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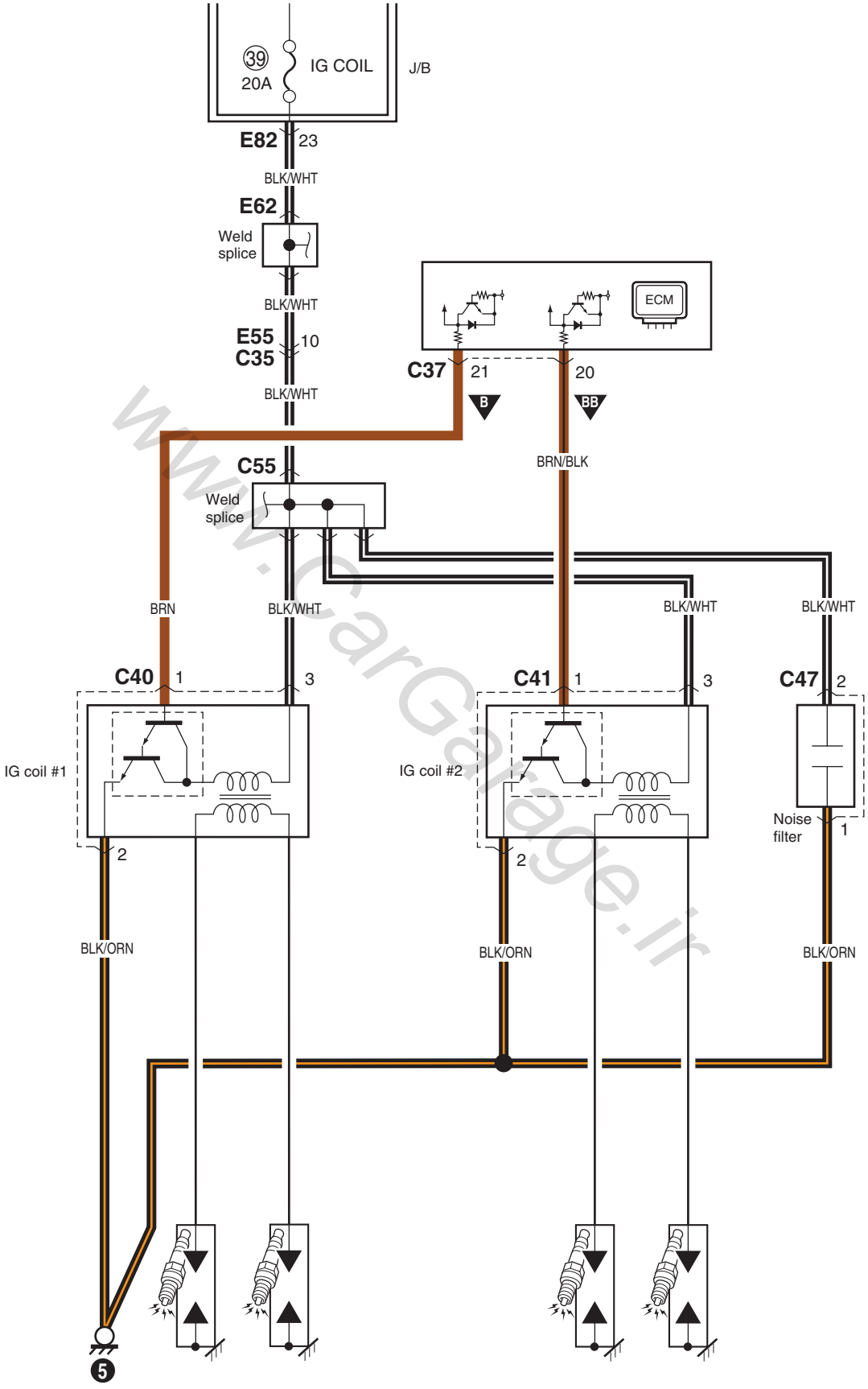

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A-3 Ignition System Circuit Diagram (J20A)

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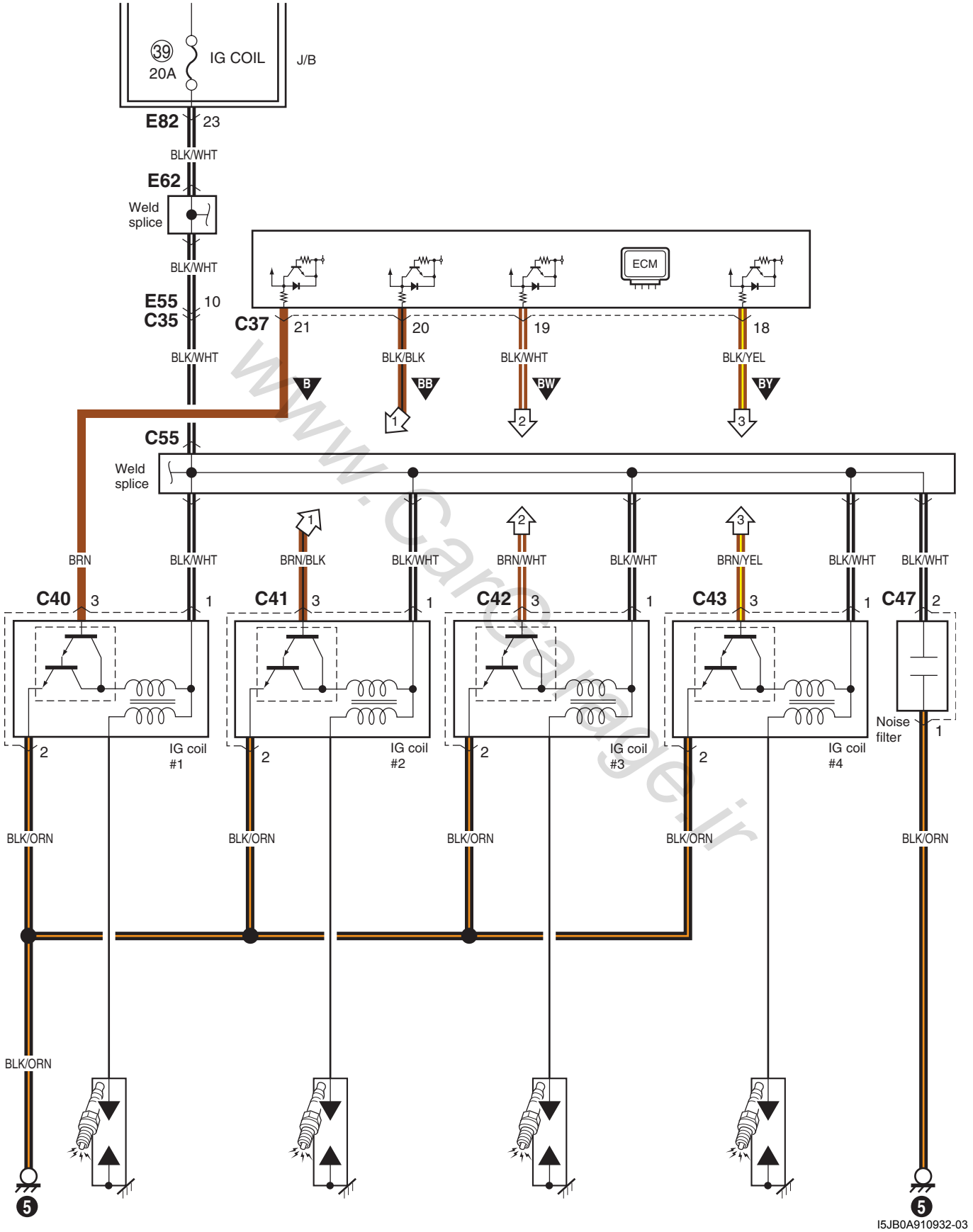

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A-4 Cooling System Circuit Diagram

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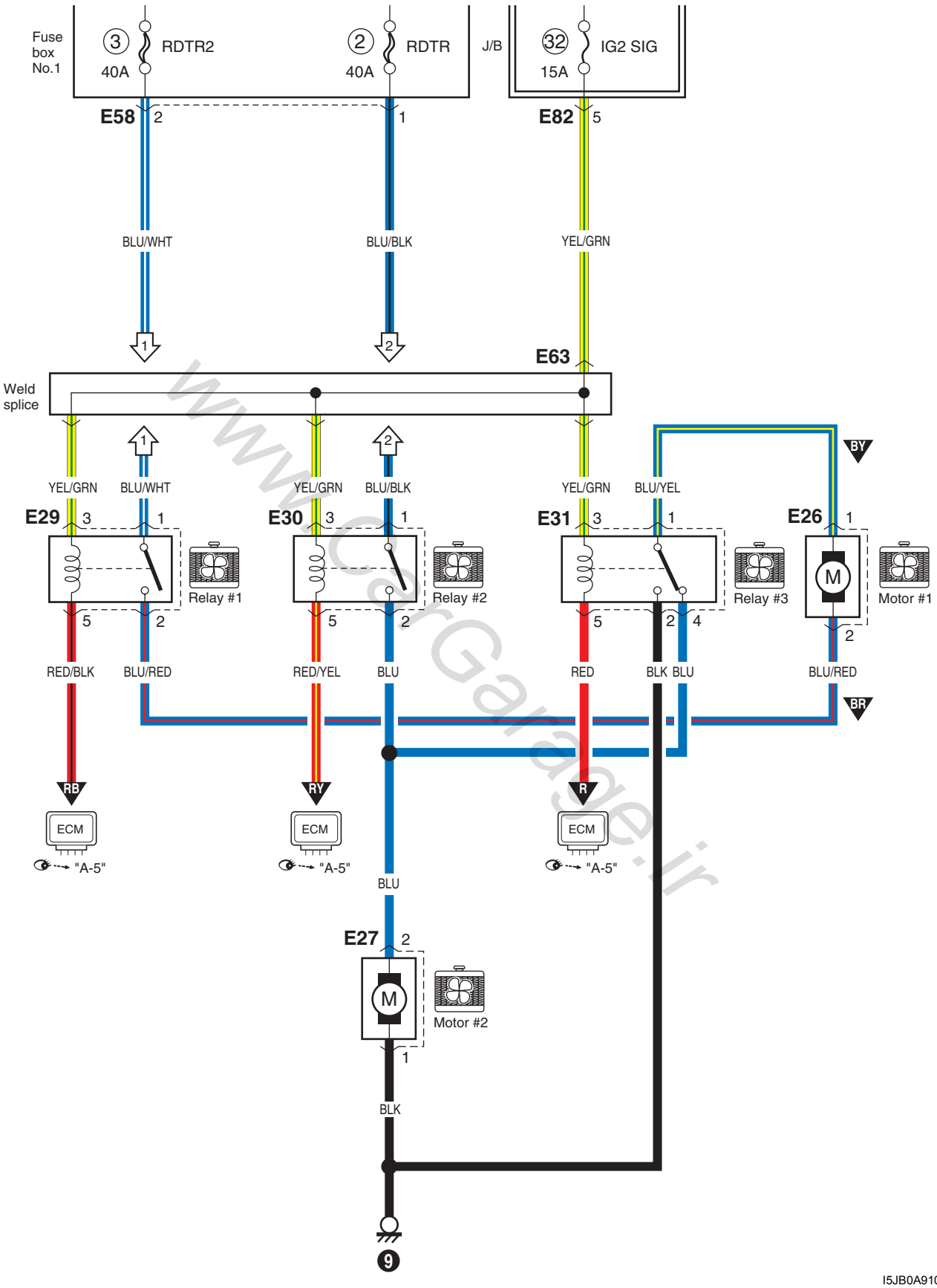

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A-5 Engine and A/C Control System Circuit Diagram (M16A)

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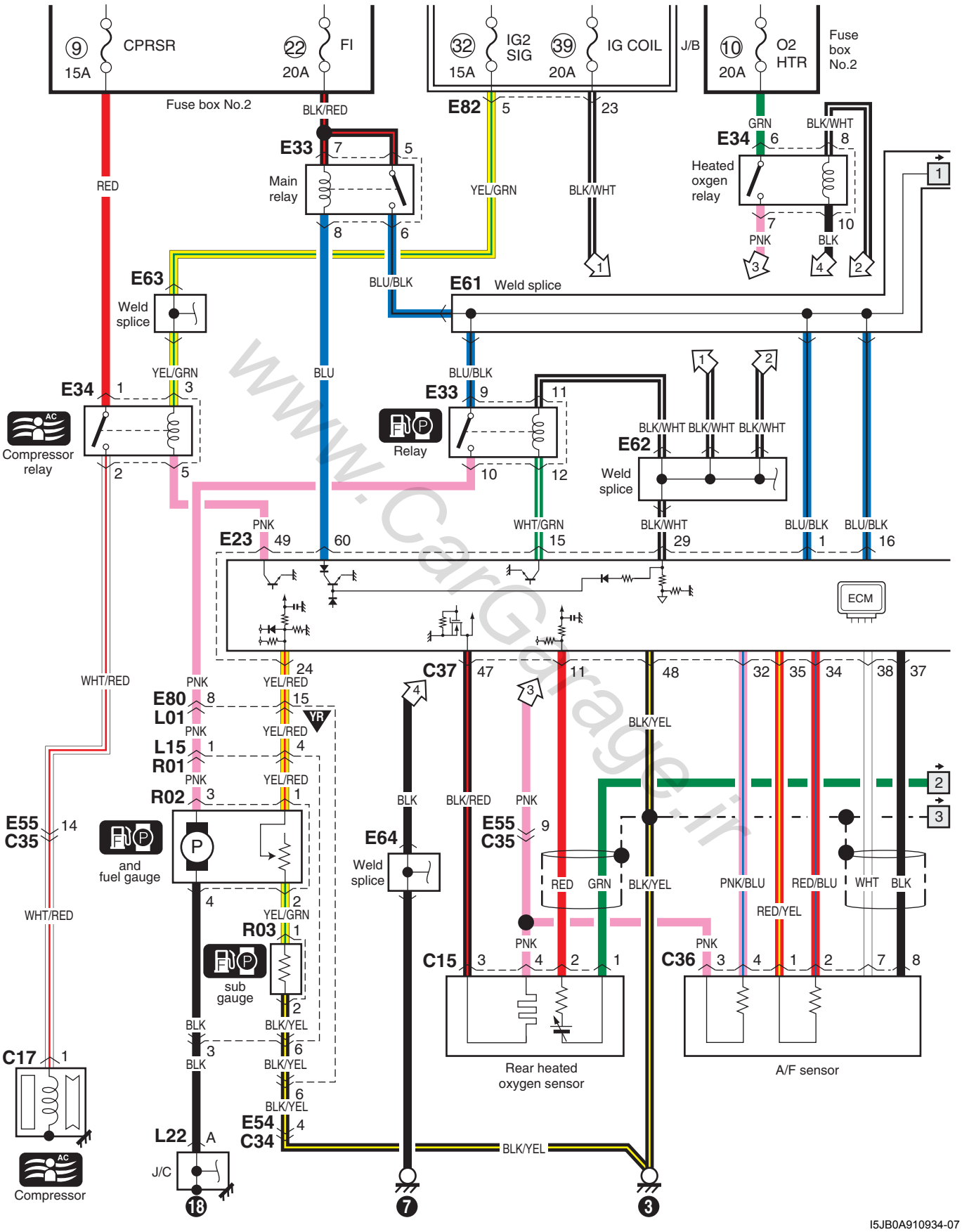

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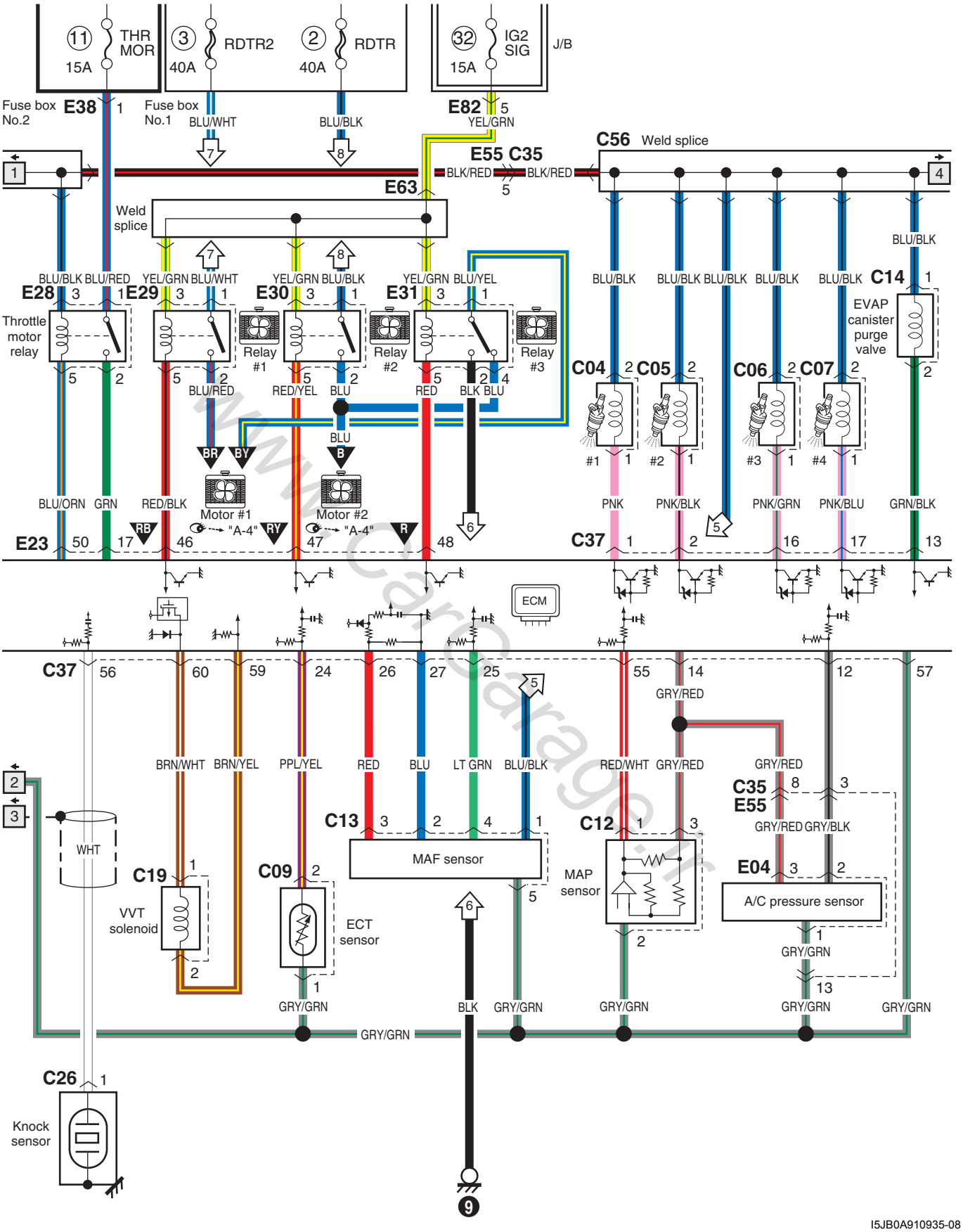

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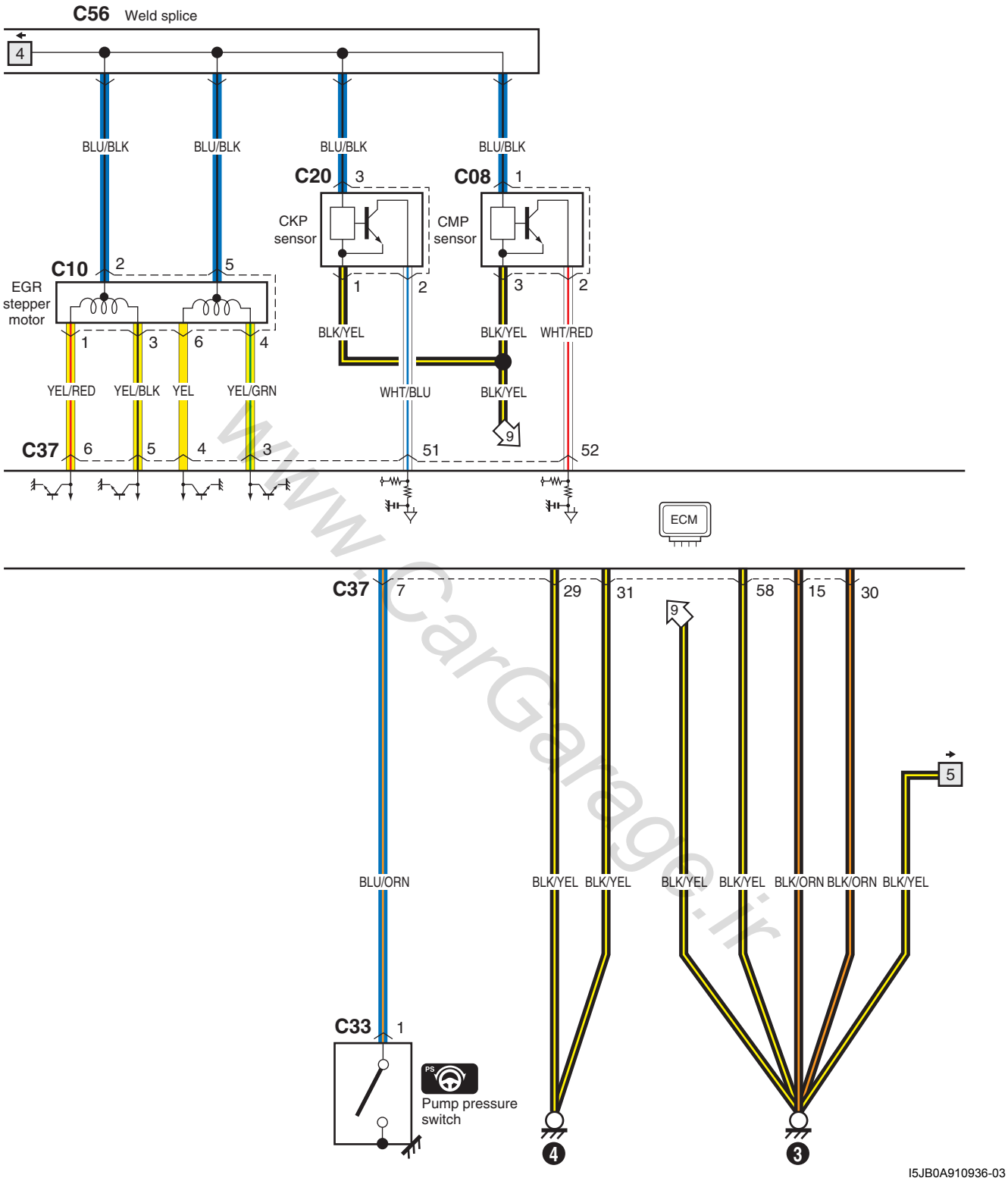

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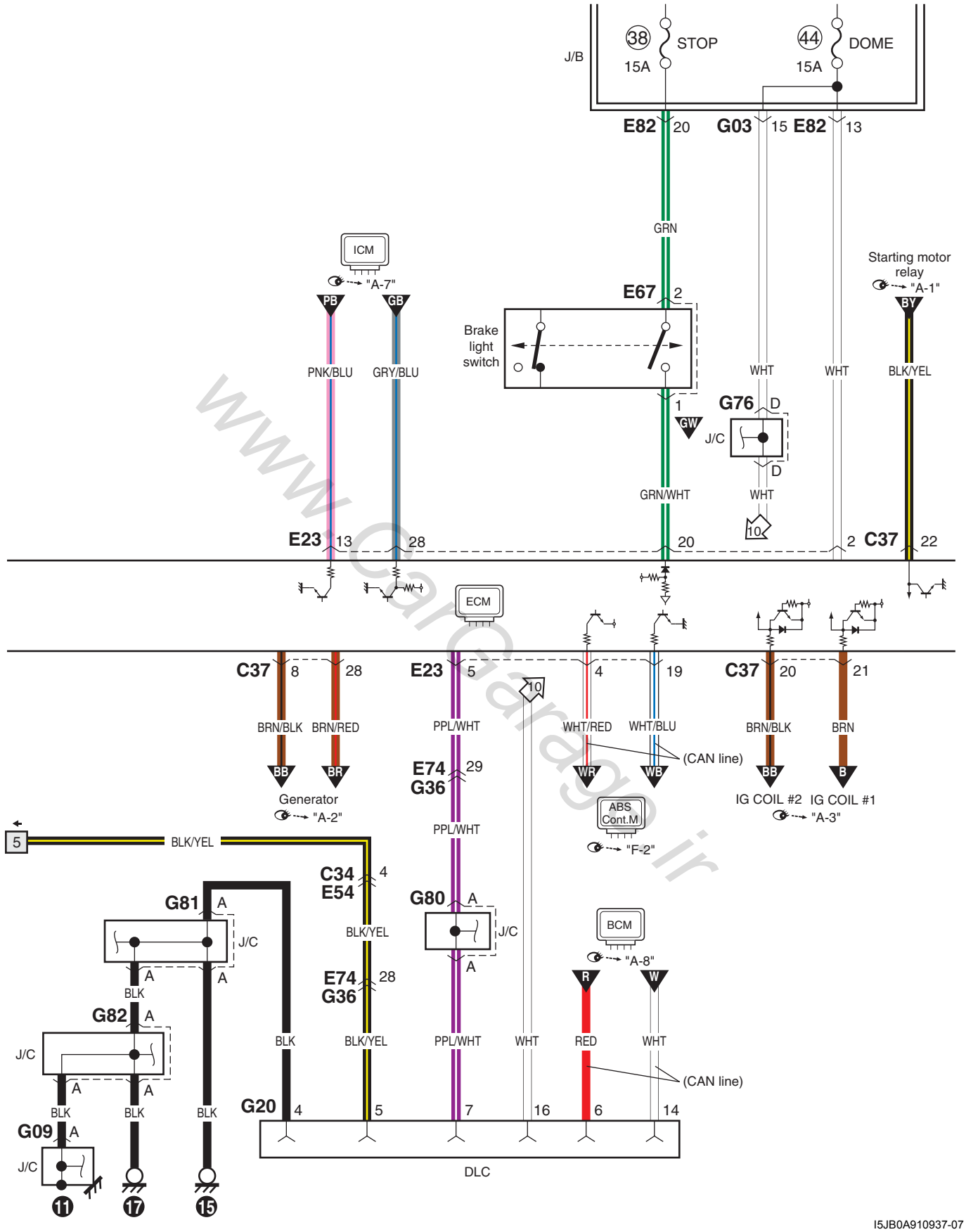

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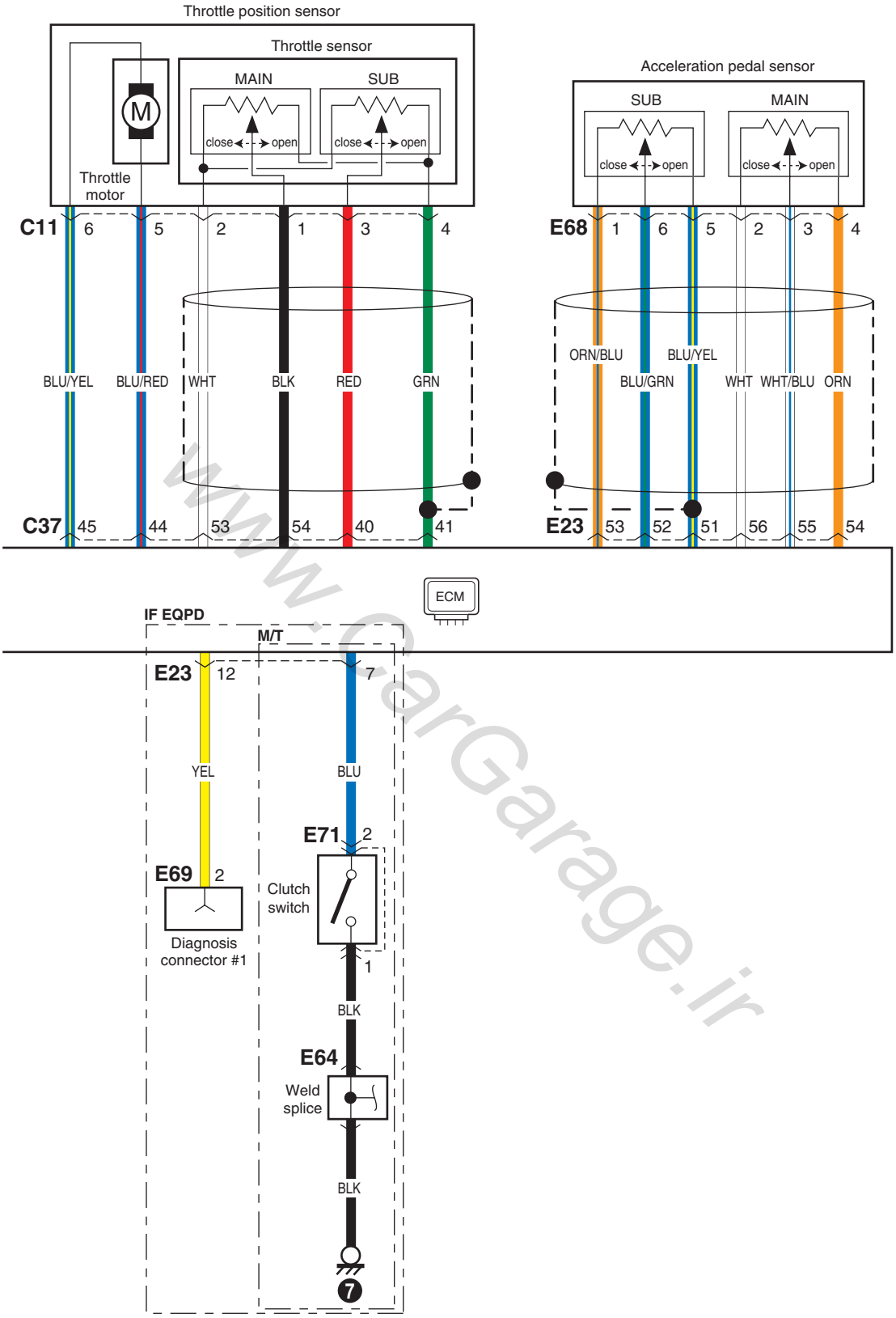

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A-5 Engine and A/C Control System Circuit Diagram (J20A)

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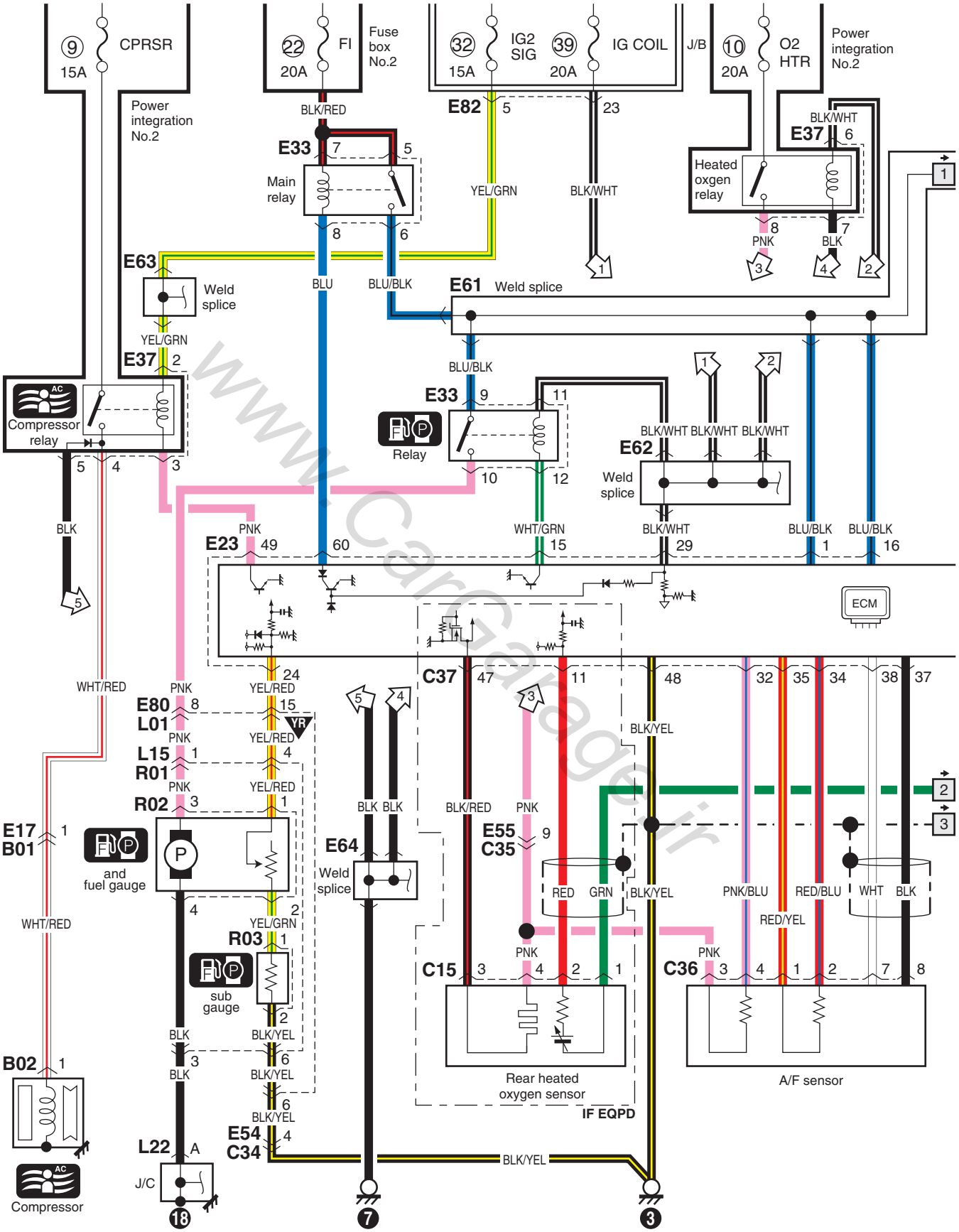

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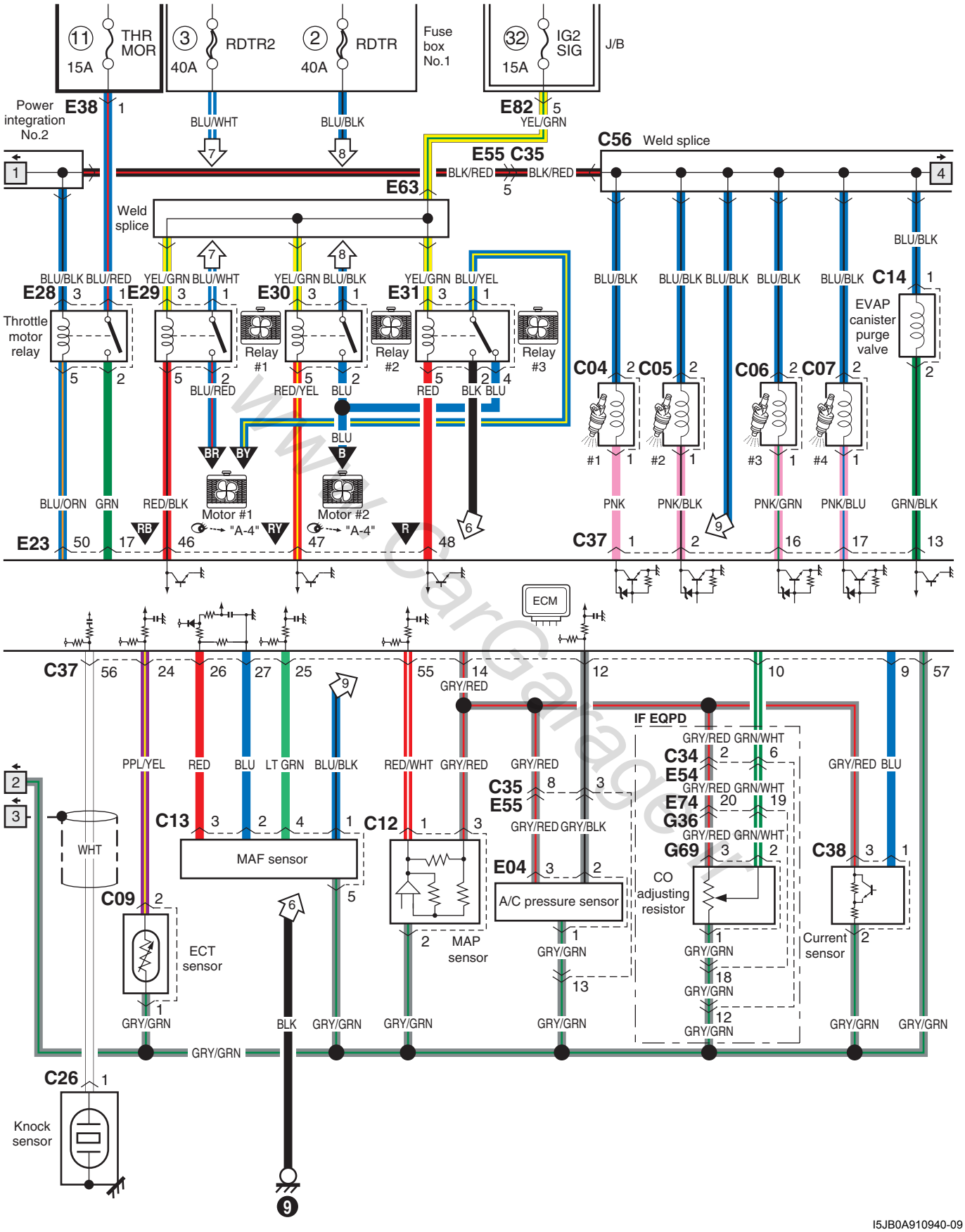

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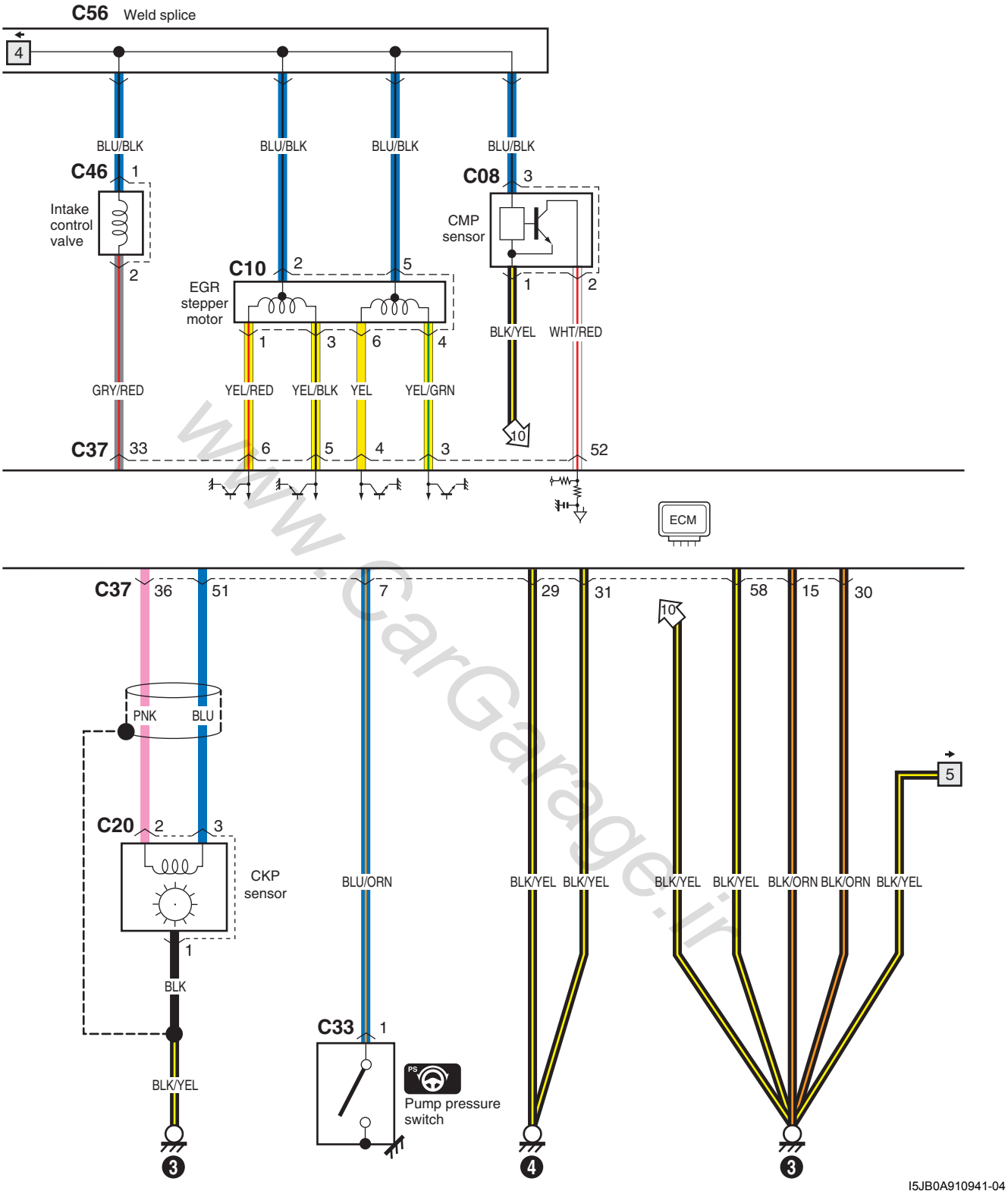

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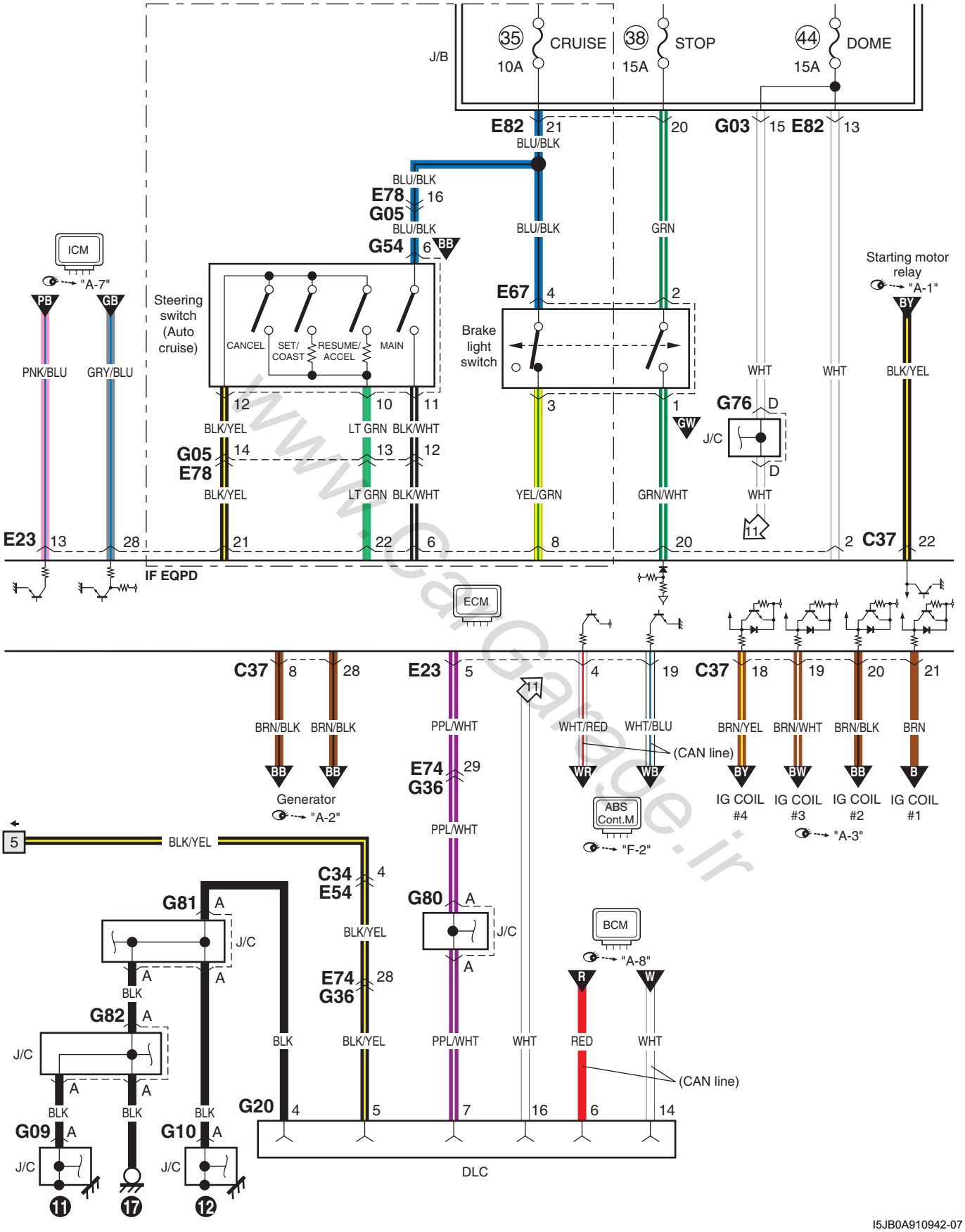

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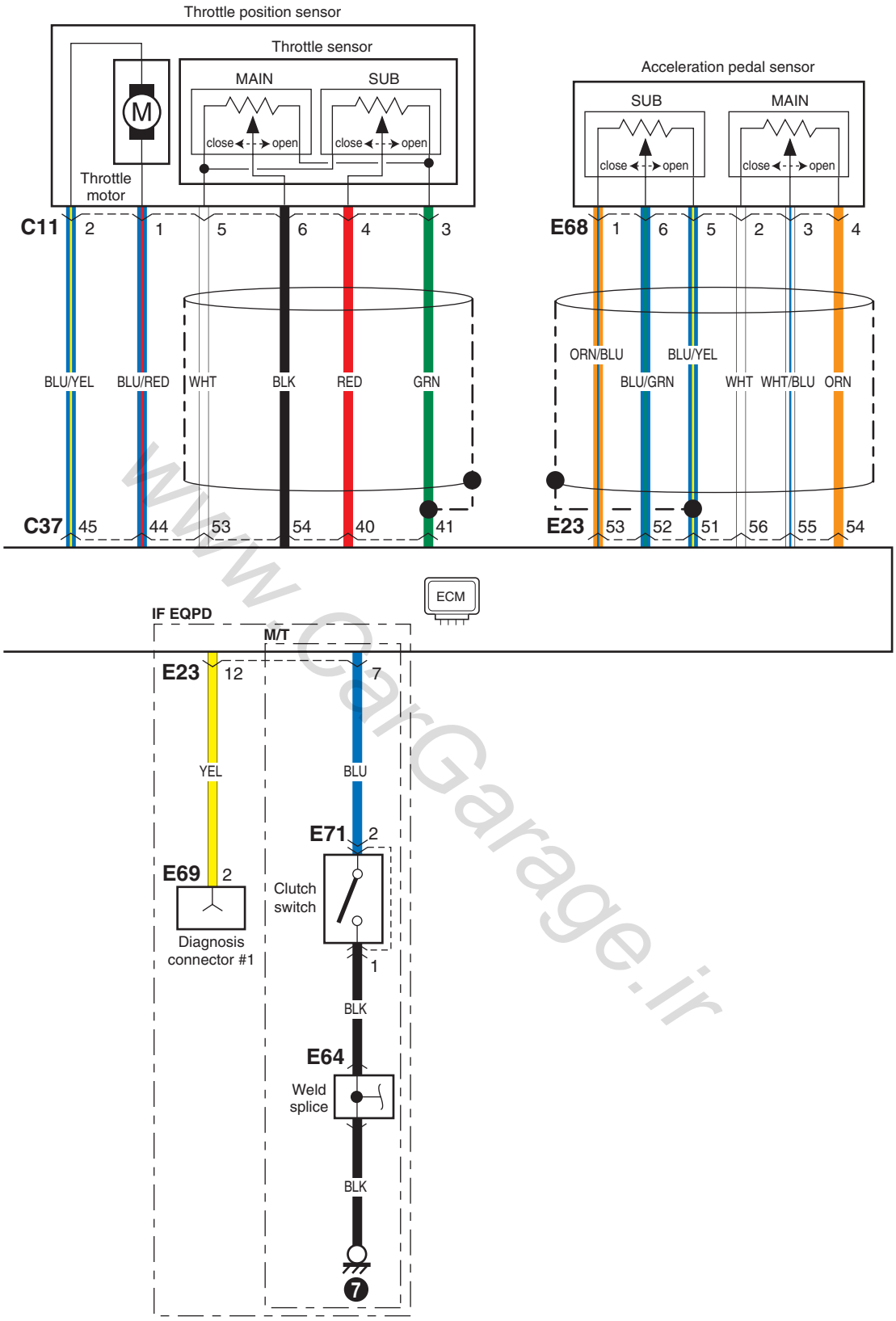

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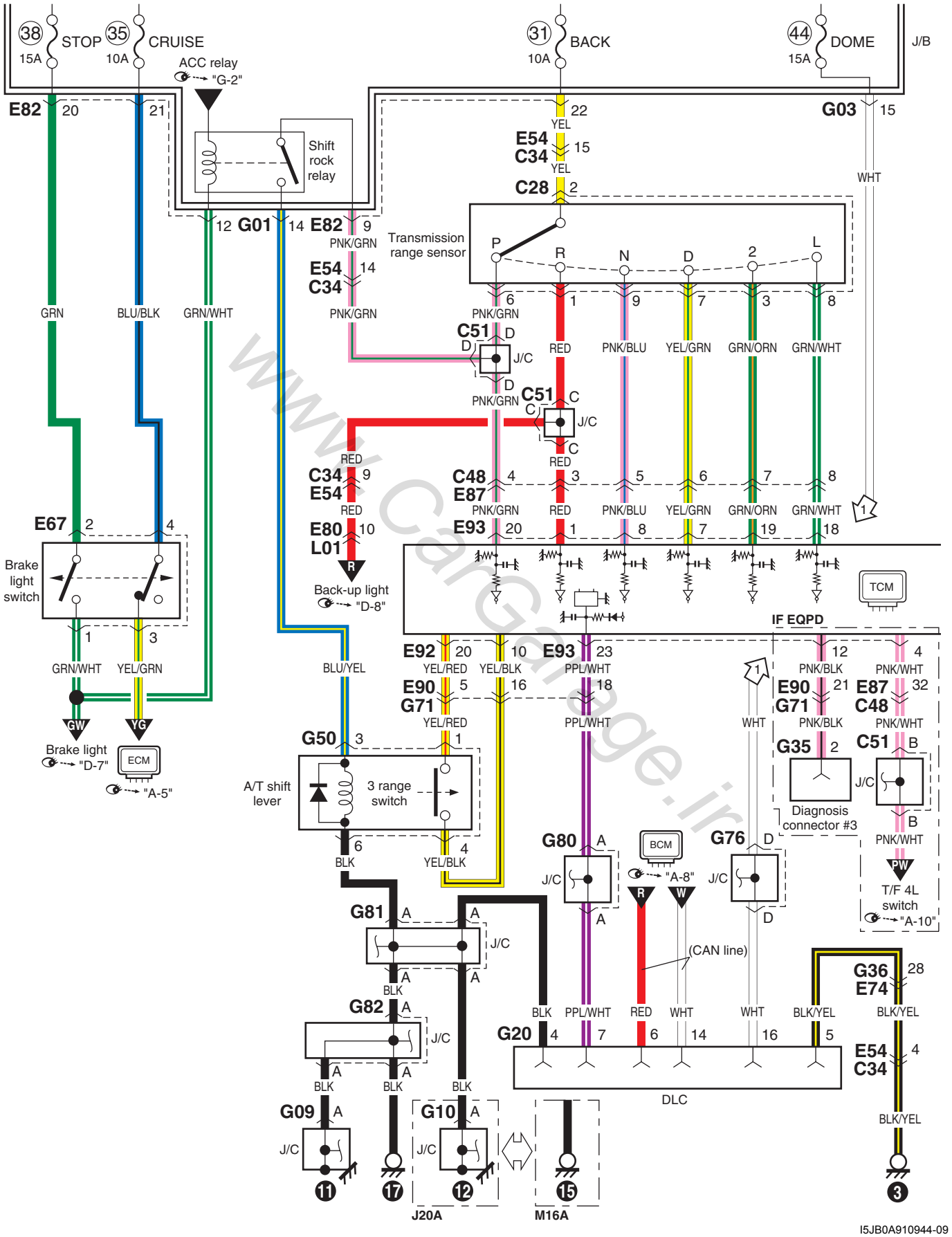
A-6 A/T Control System Circuit Diagram

S5JB0A910E006



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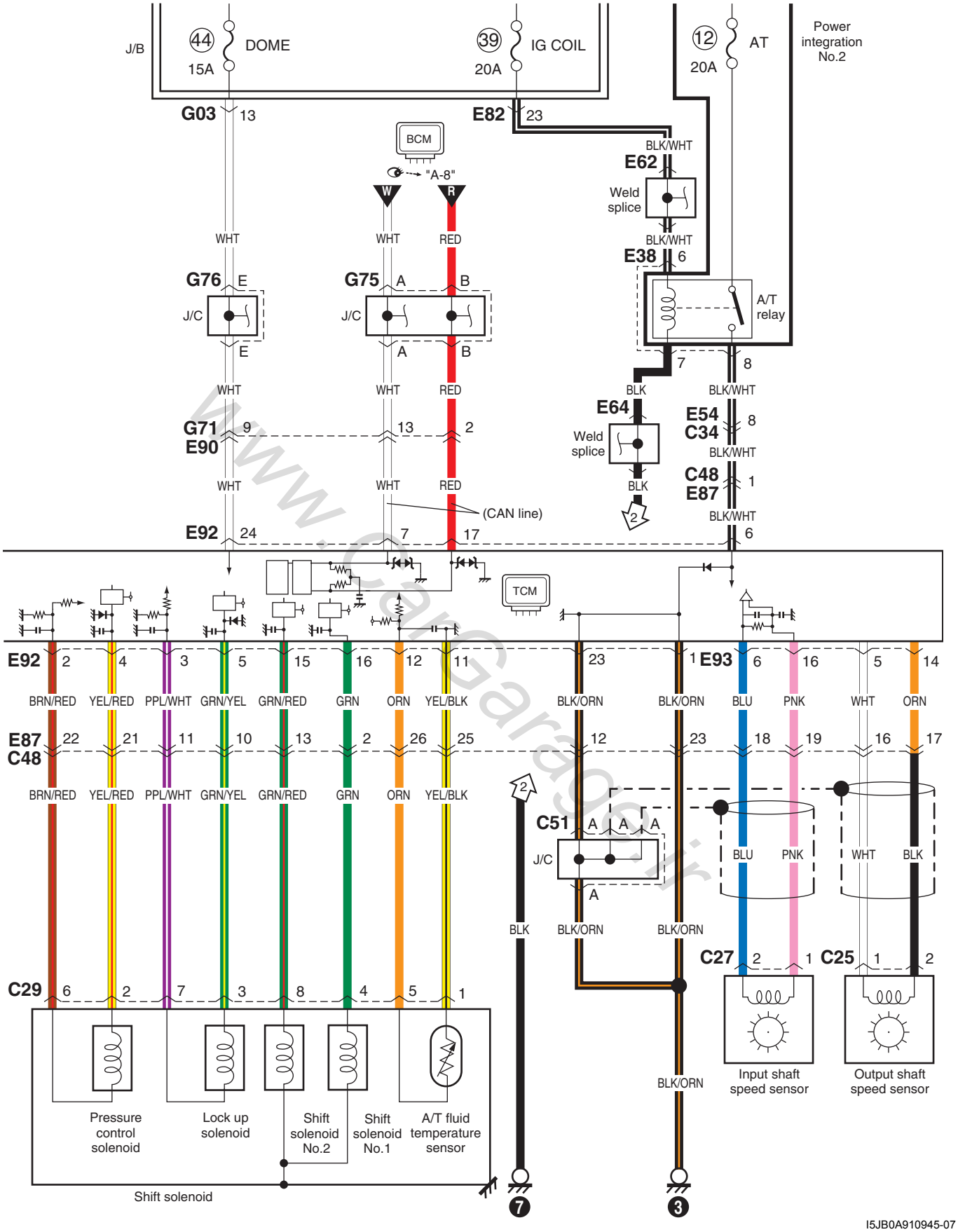

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A-7 Immobilizer System Circuit Diagram

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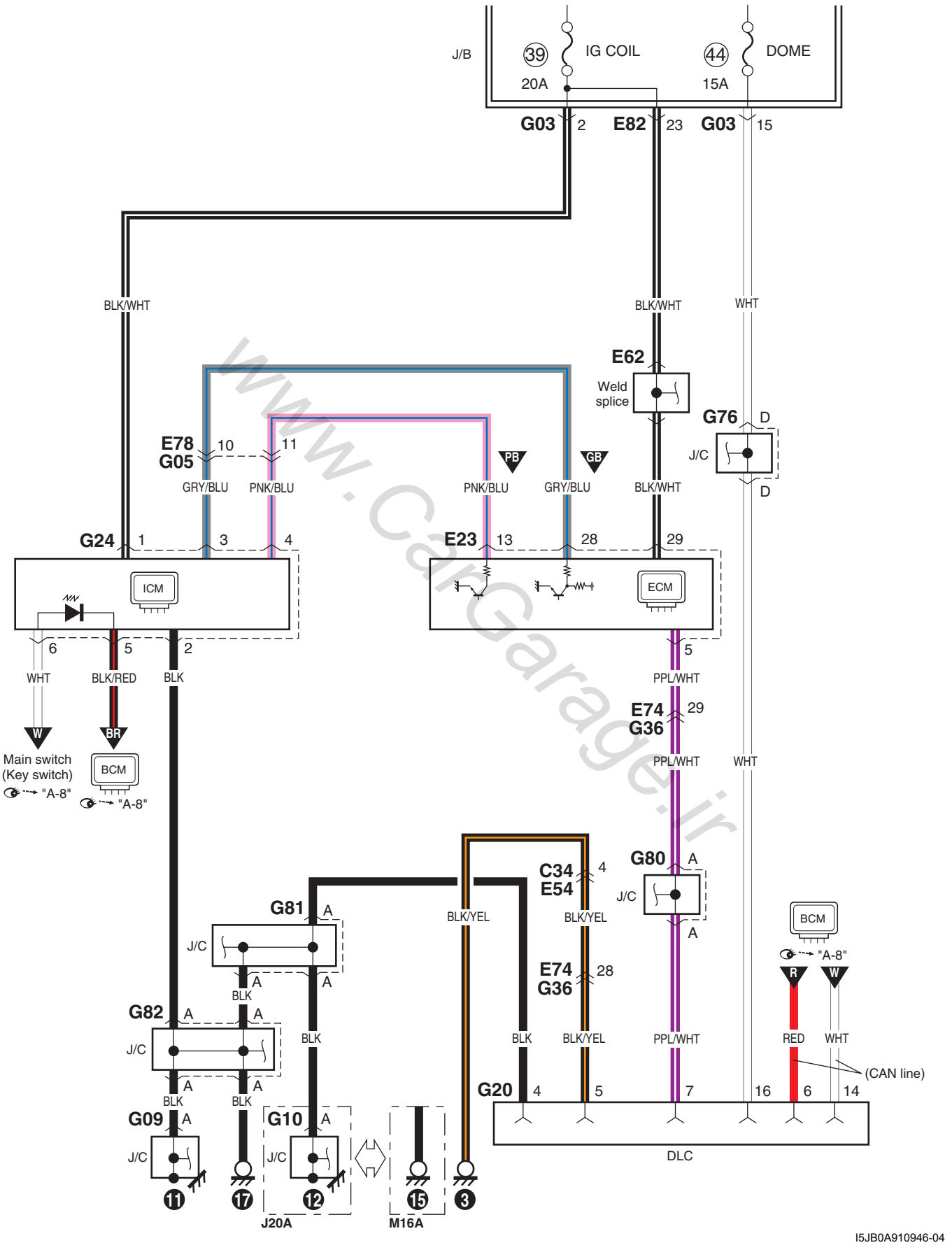

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I5JB0A910946-04

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A-8 Body Control System Circuit Diagram

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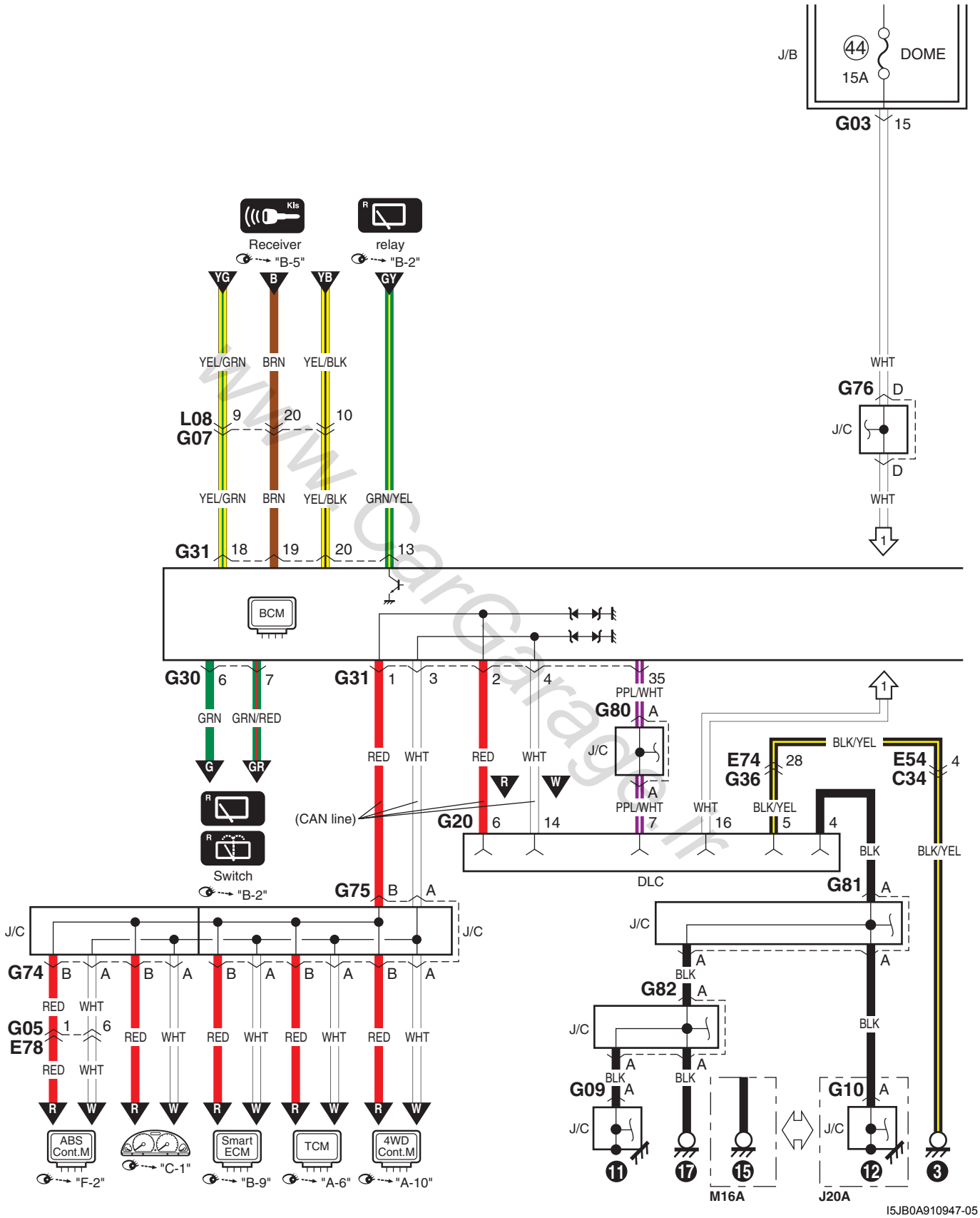

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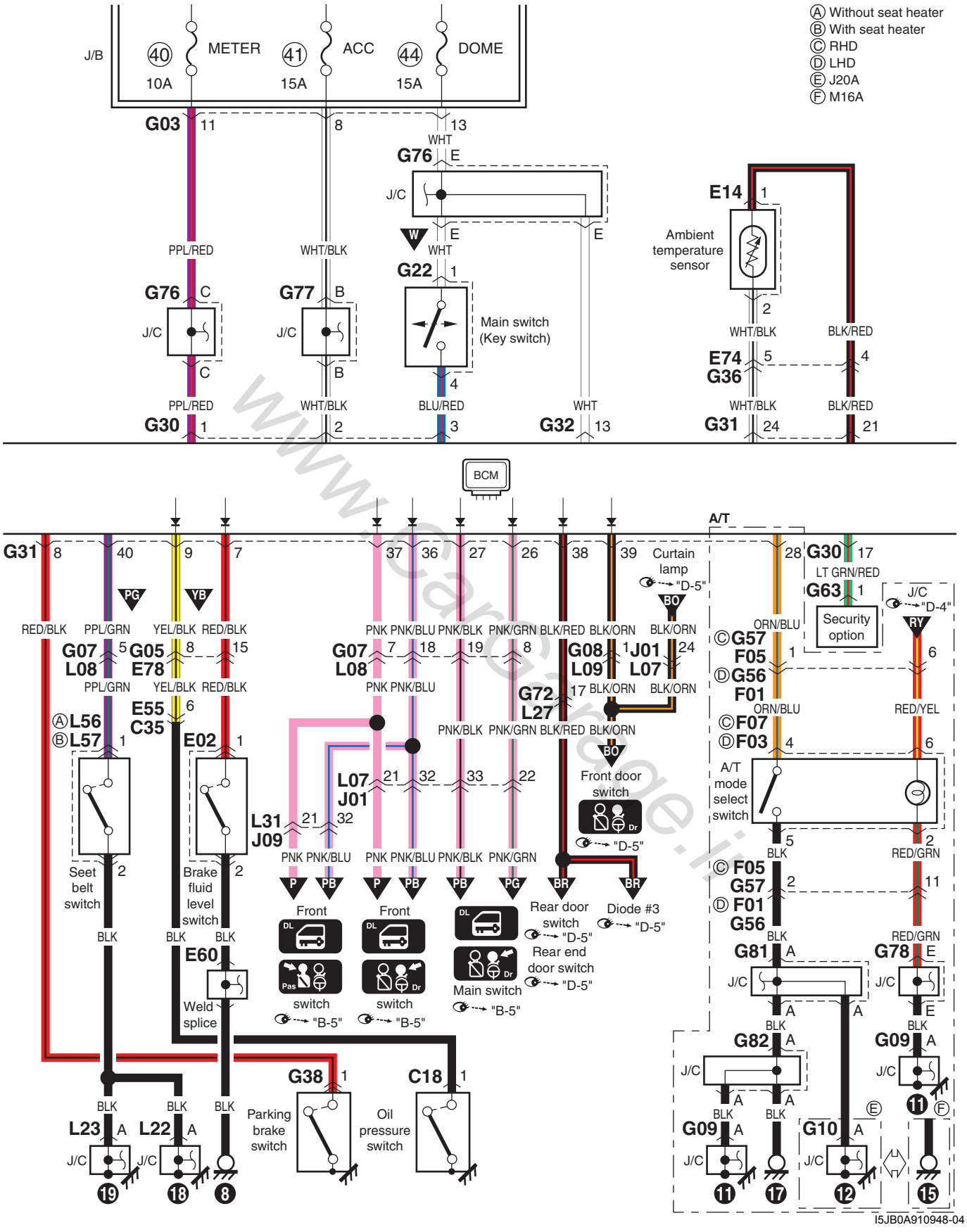

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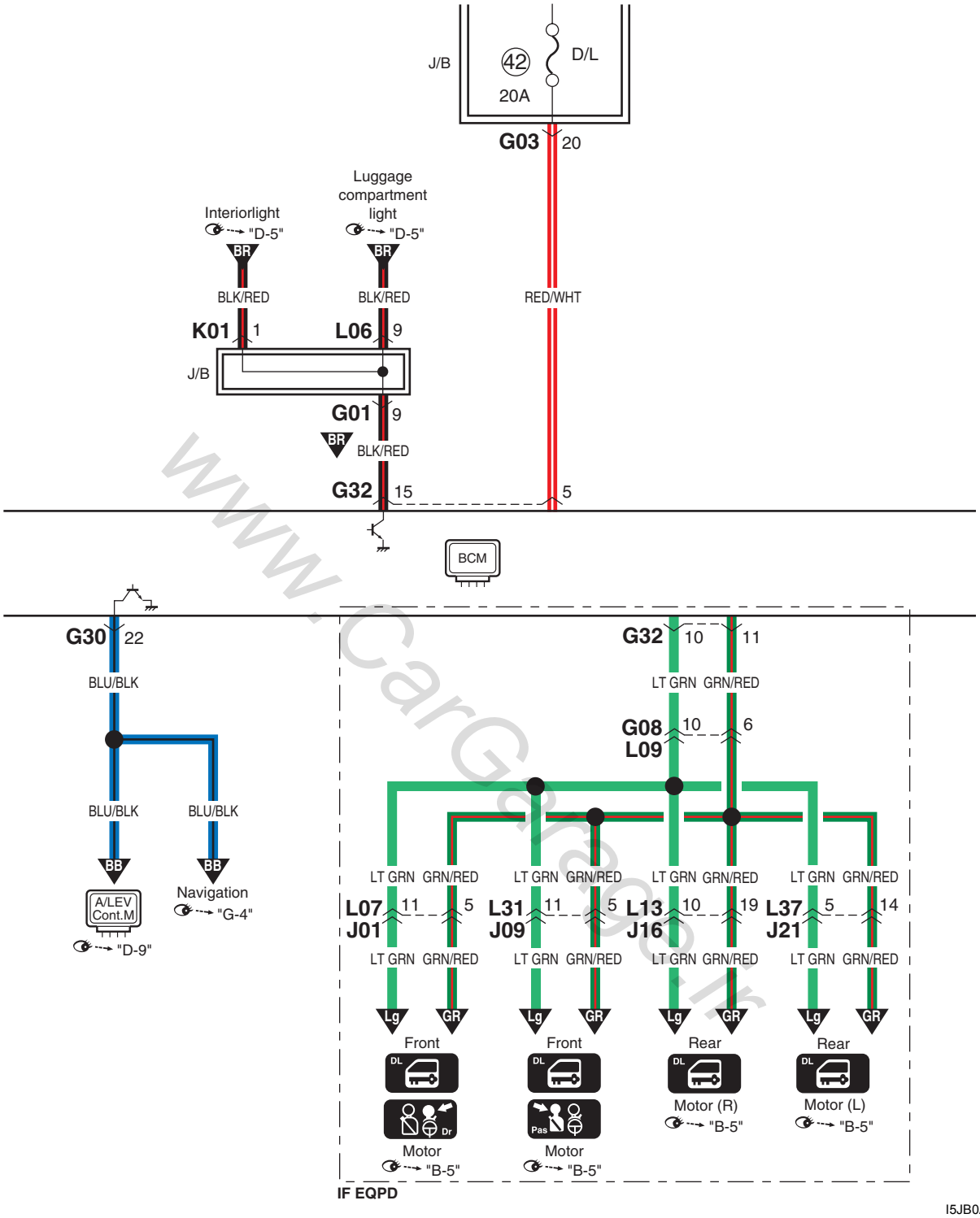

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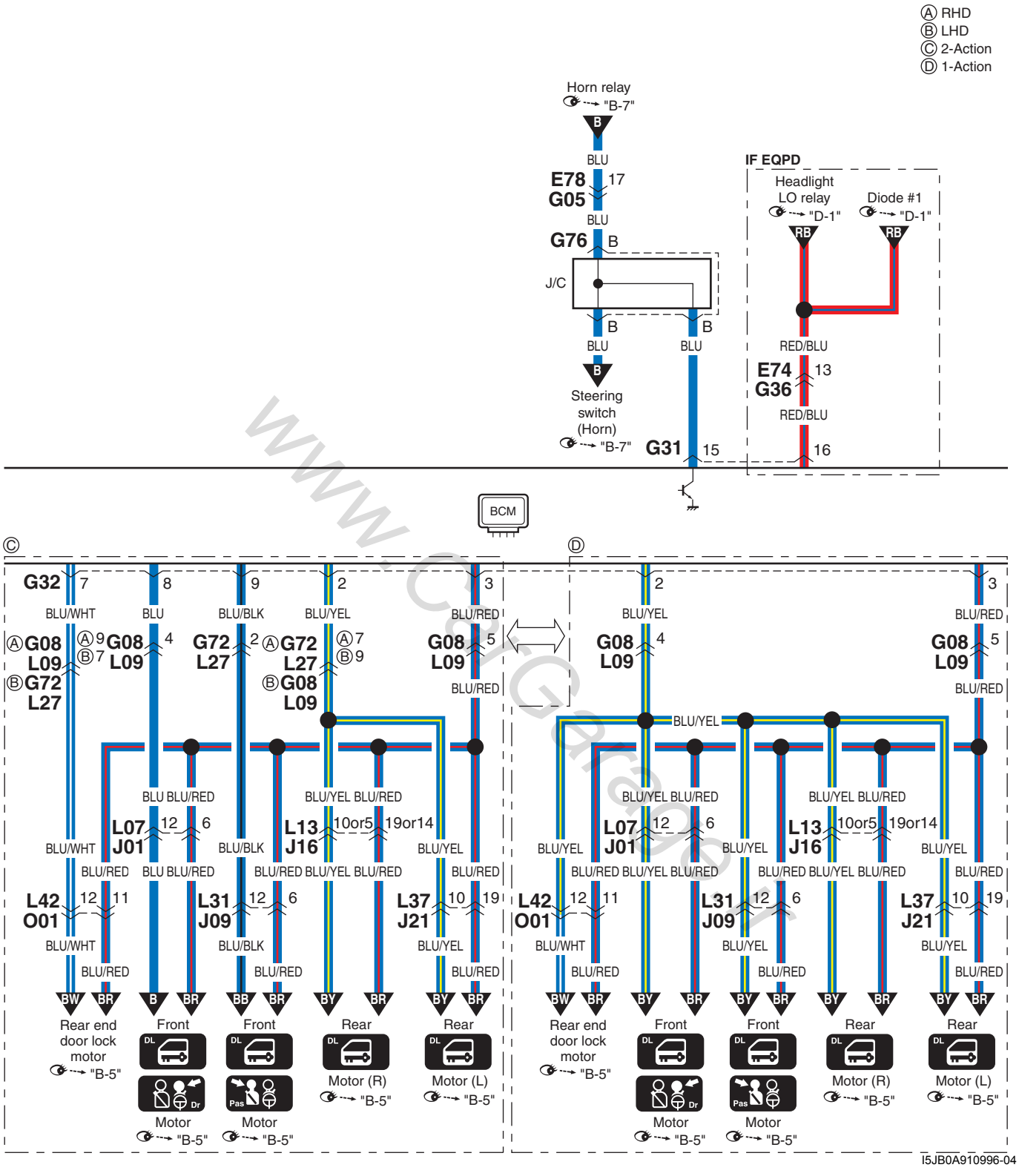
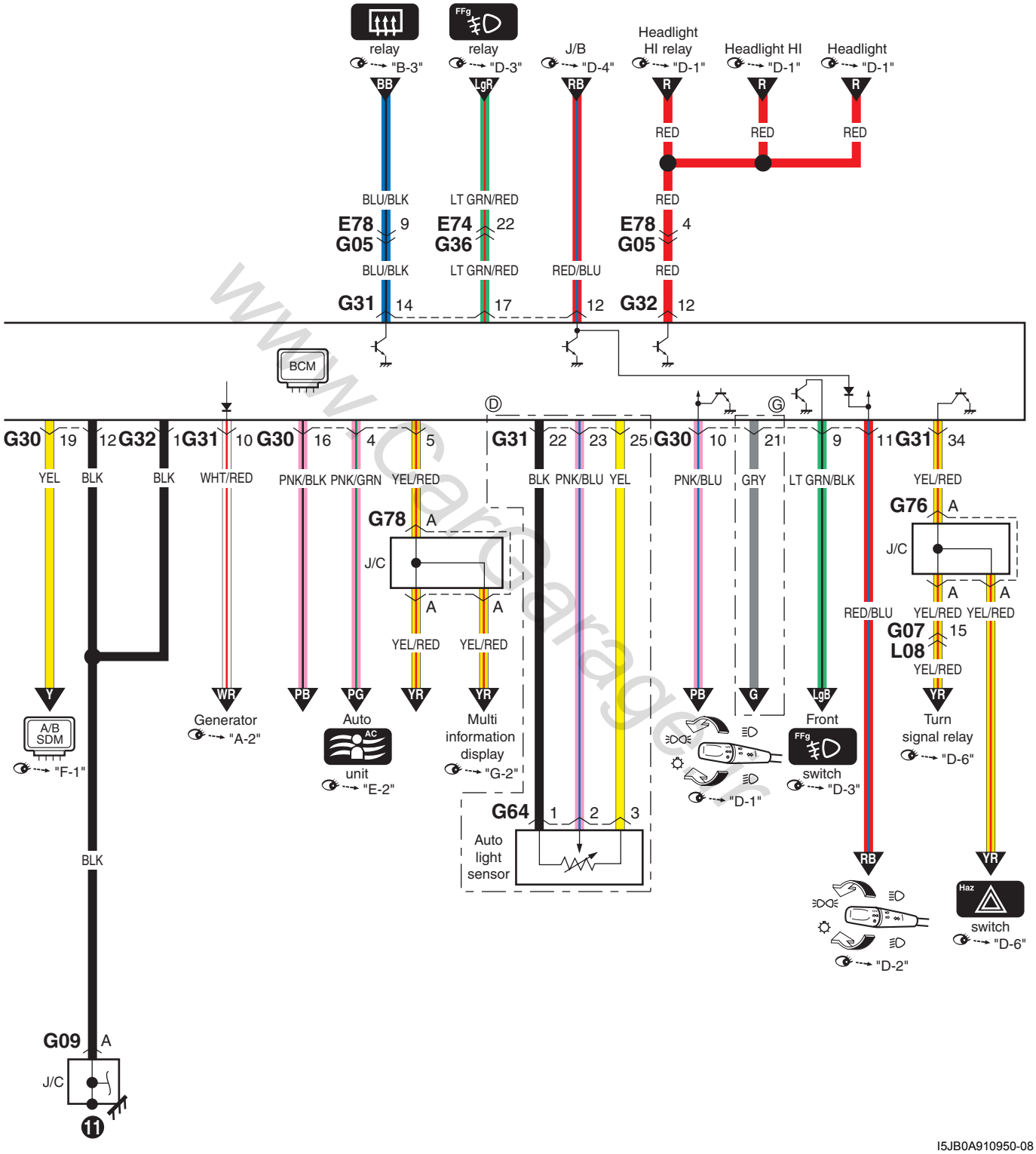


Ⓐ Without seat heater
Ⓑ With seat heater
Ⓒ RHD
Ⓓ LHD
Ⓔ M20A
Ⓕ M16A
Ⓖ LHD without Rear fog light



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A-10 4WD Control System Circuit Diagram

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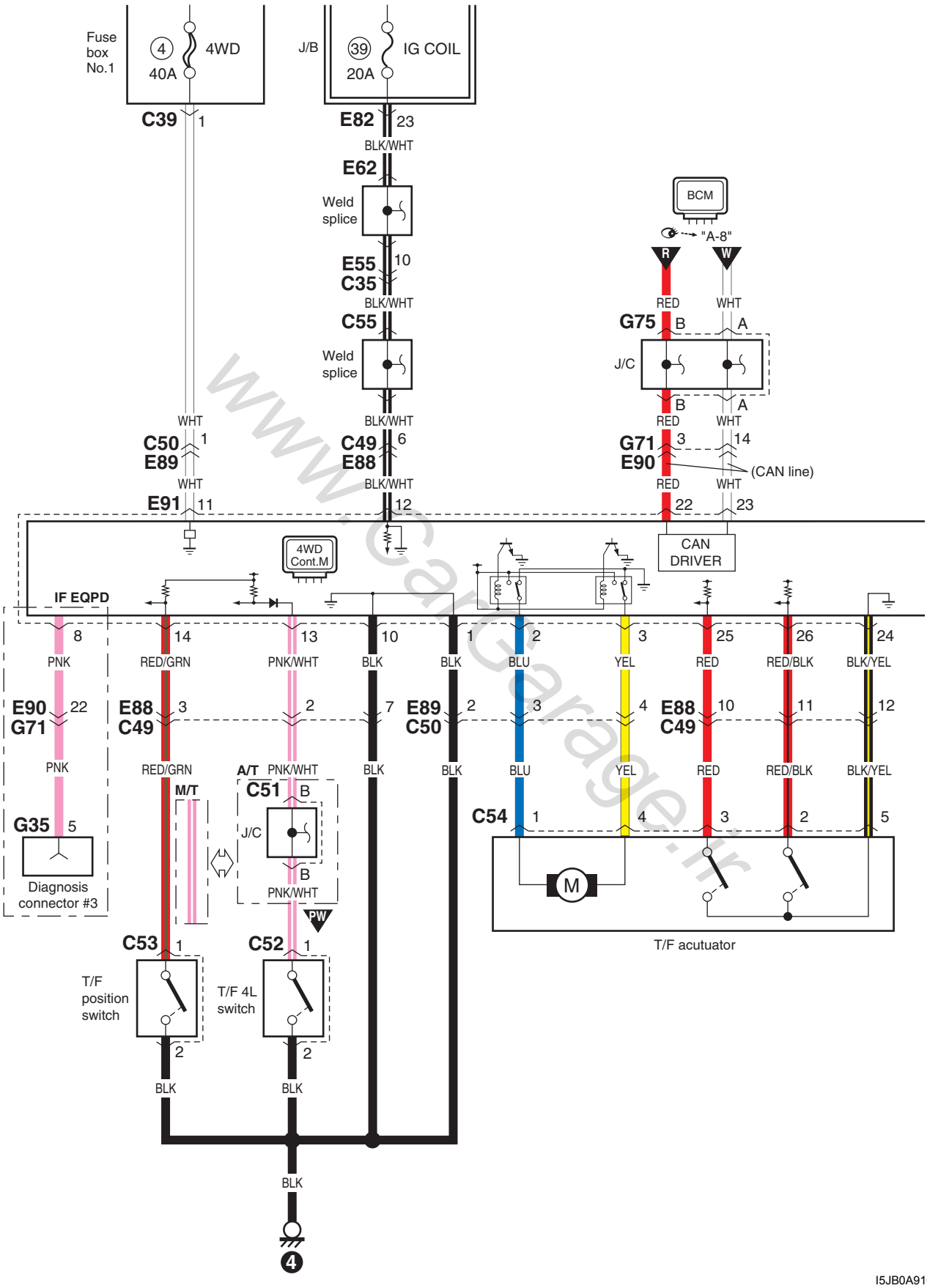

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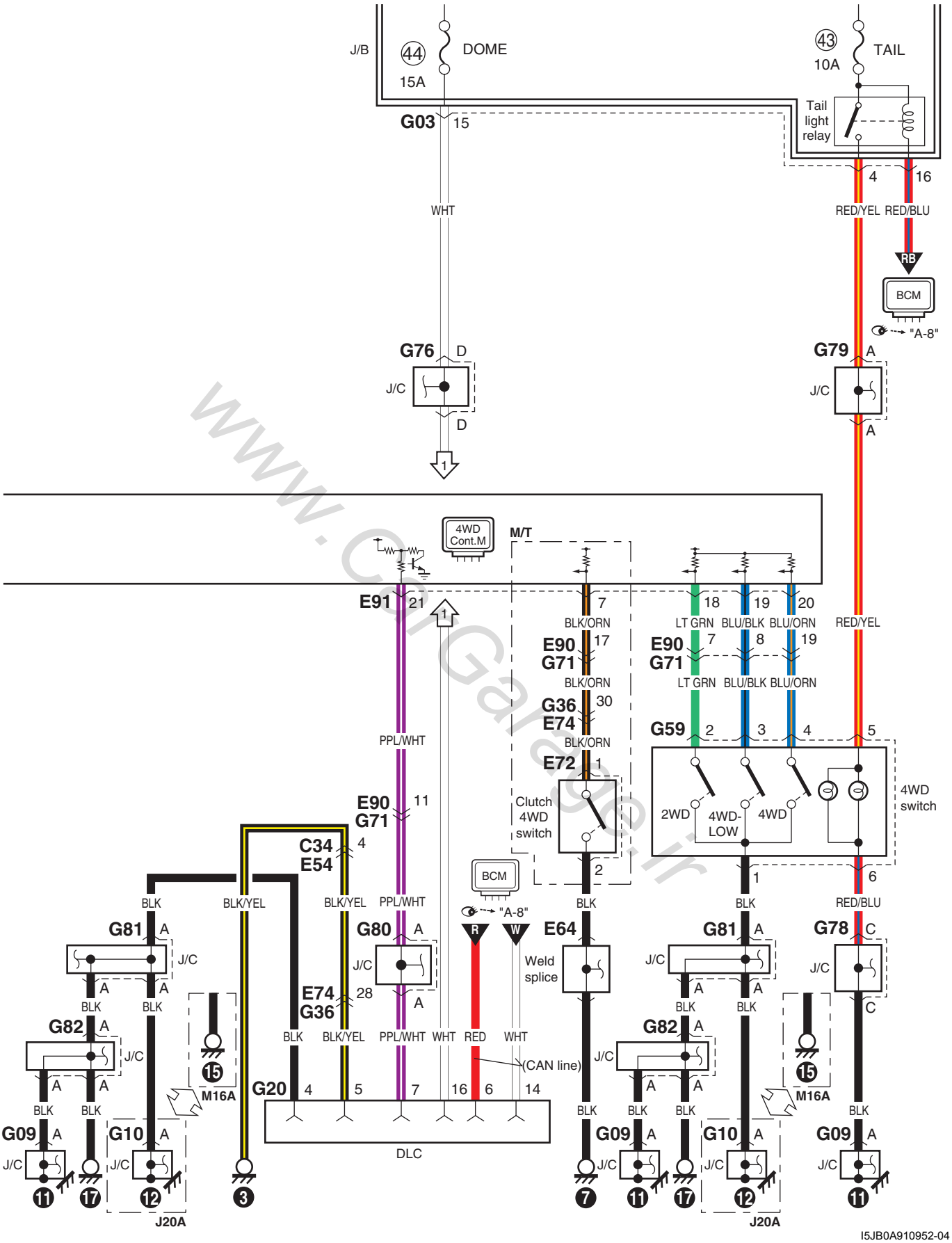

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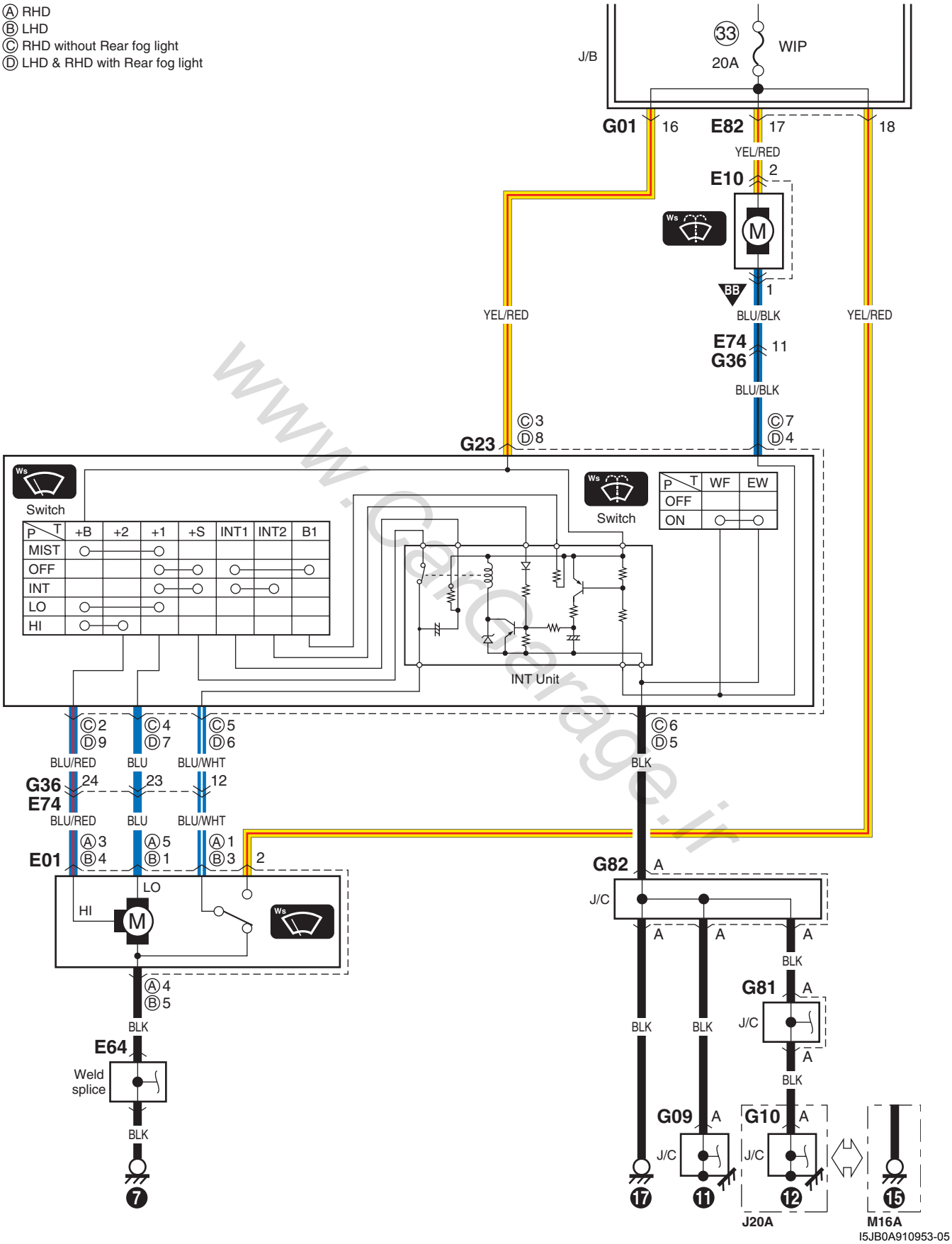
B-1 Windshield Wiper and Washer Circuit Diagram

S5JB0A910E009

Ⓐ RHD
Ⓑ LHD
Ⓒ RHD without Rear fog light
Ⓓ LHD & RHD with Rear fog light



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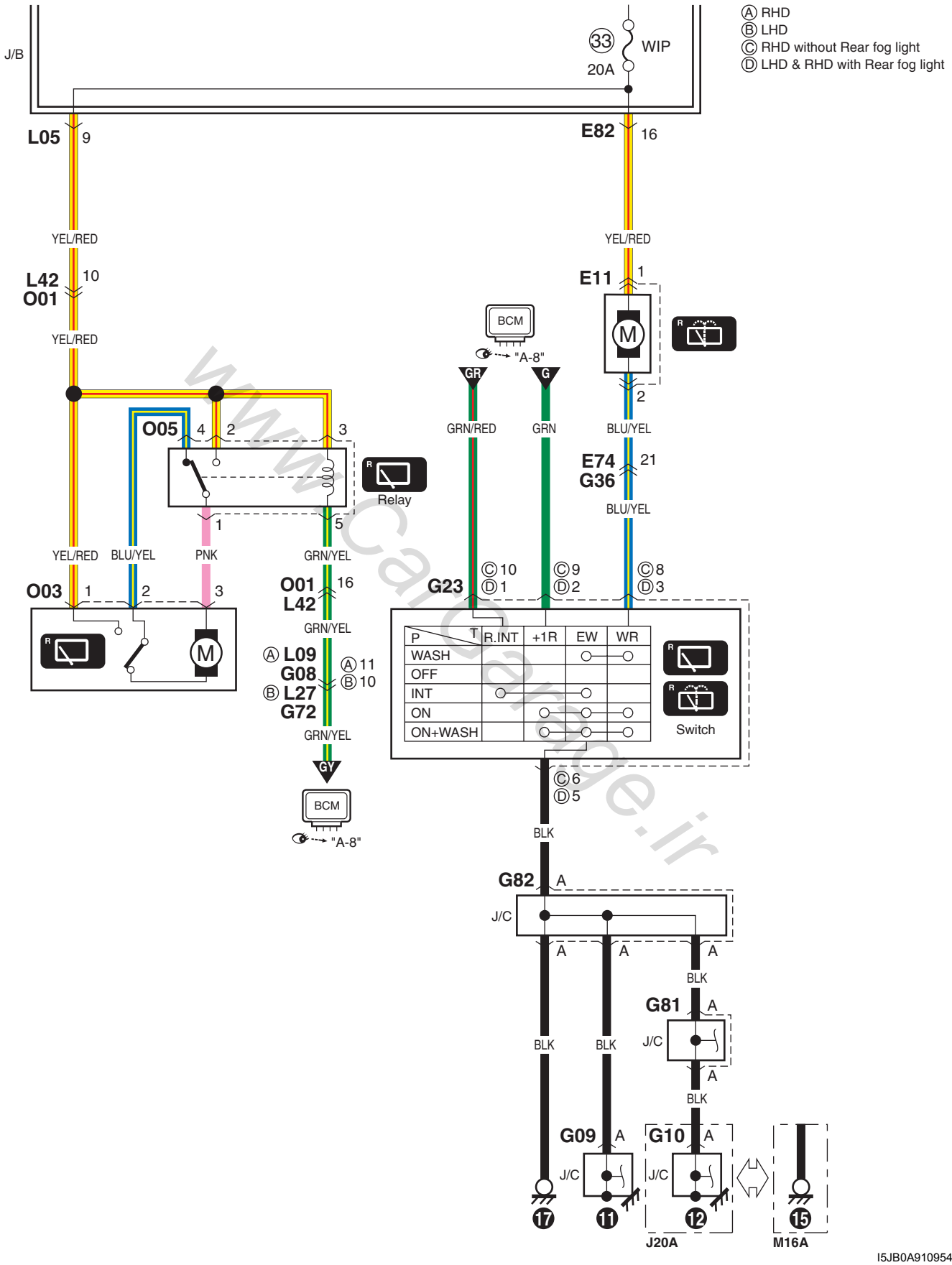
B-2 Rear Wiper and Washer Circuit Diagram

S5JB0A910E010



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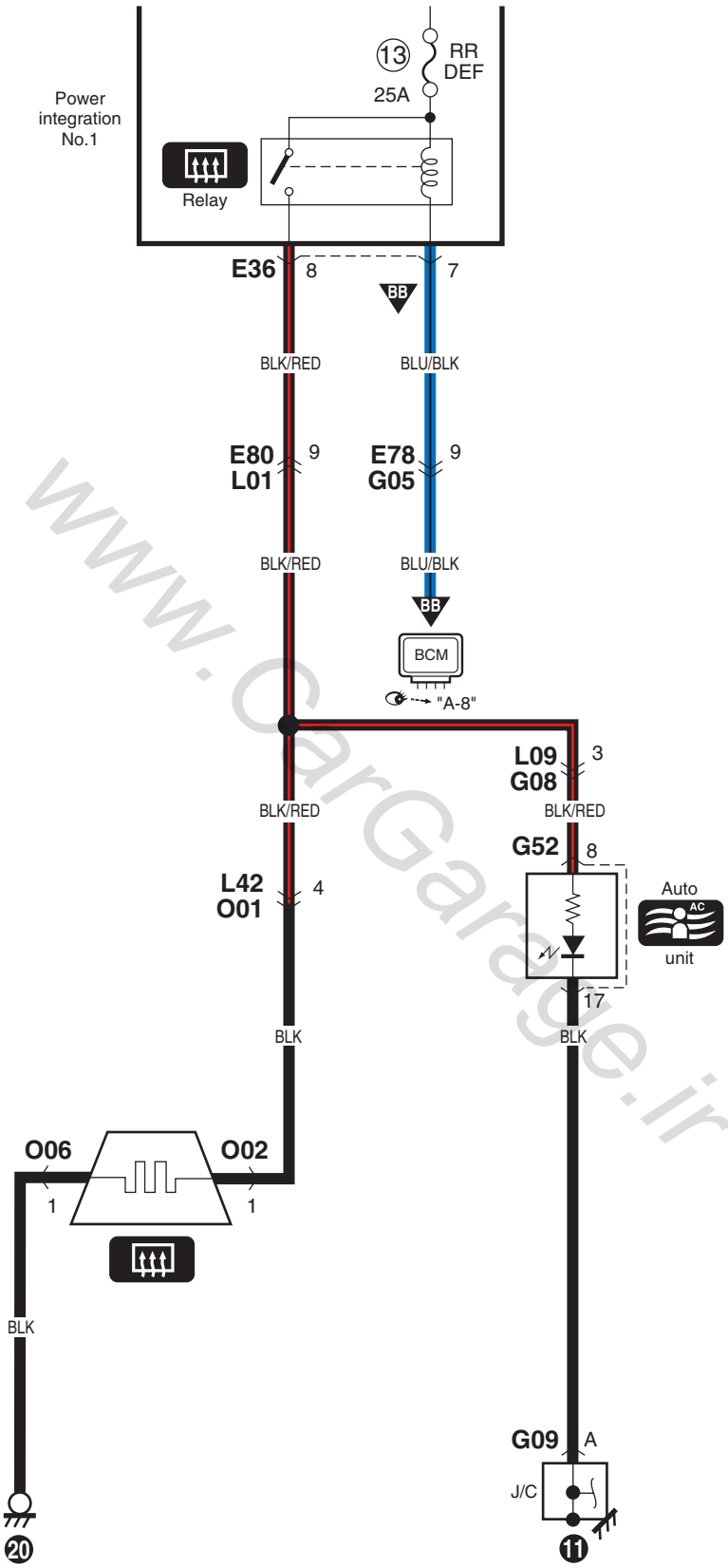
B-3 Rear Defogger Circuit Diagram

S5JB0A910E011



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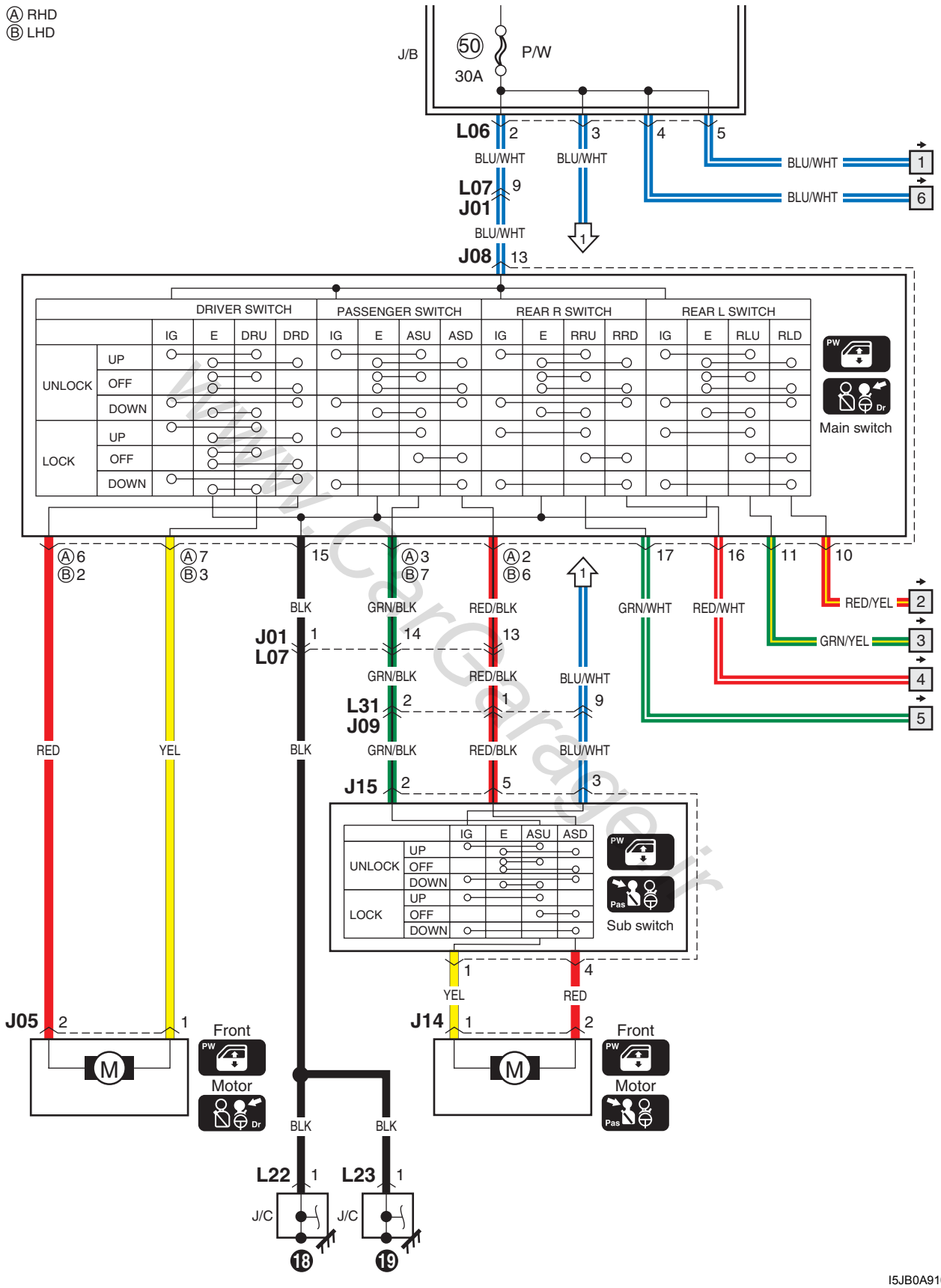
B-4 Power Window Circuit Diagram

S5JB0A910E012



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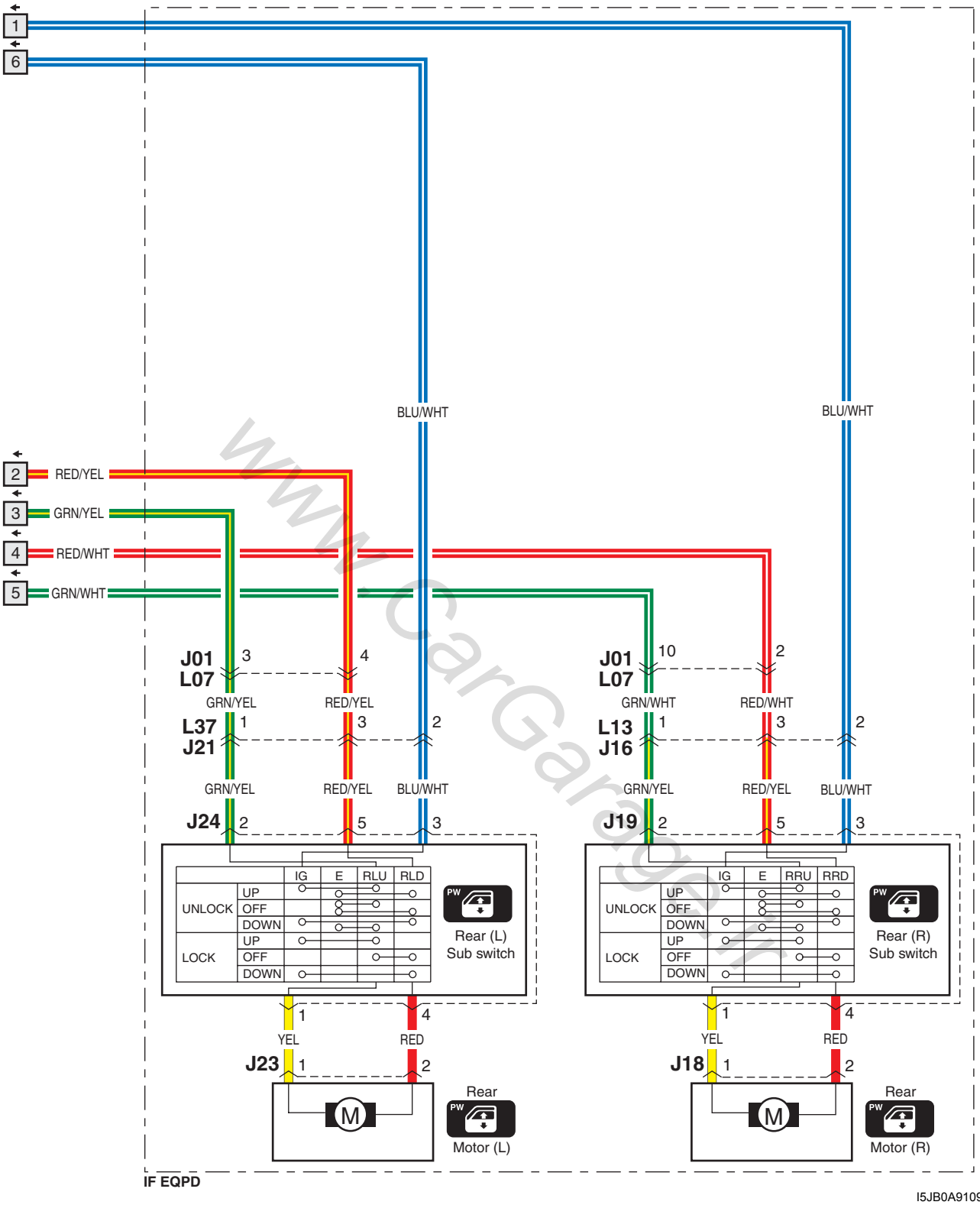

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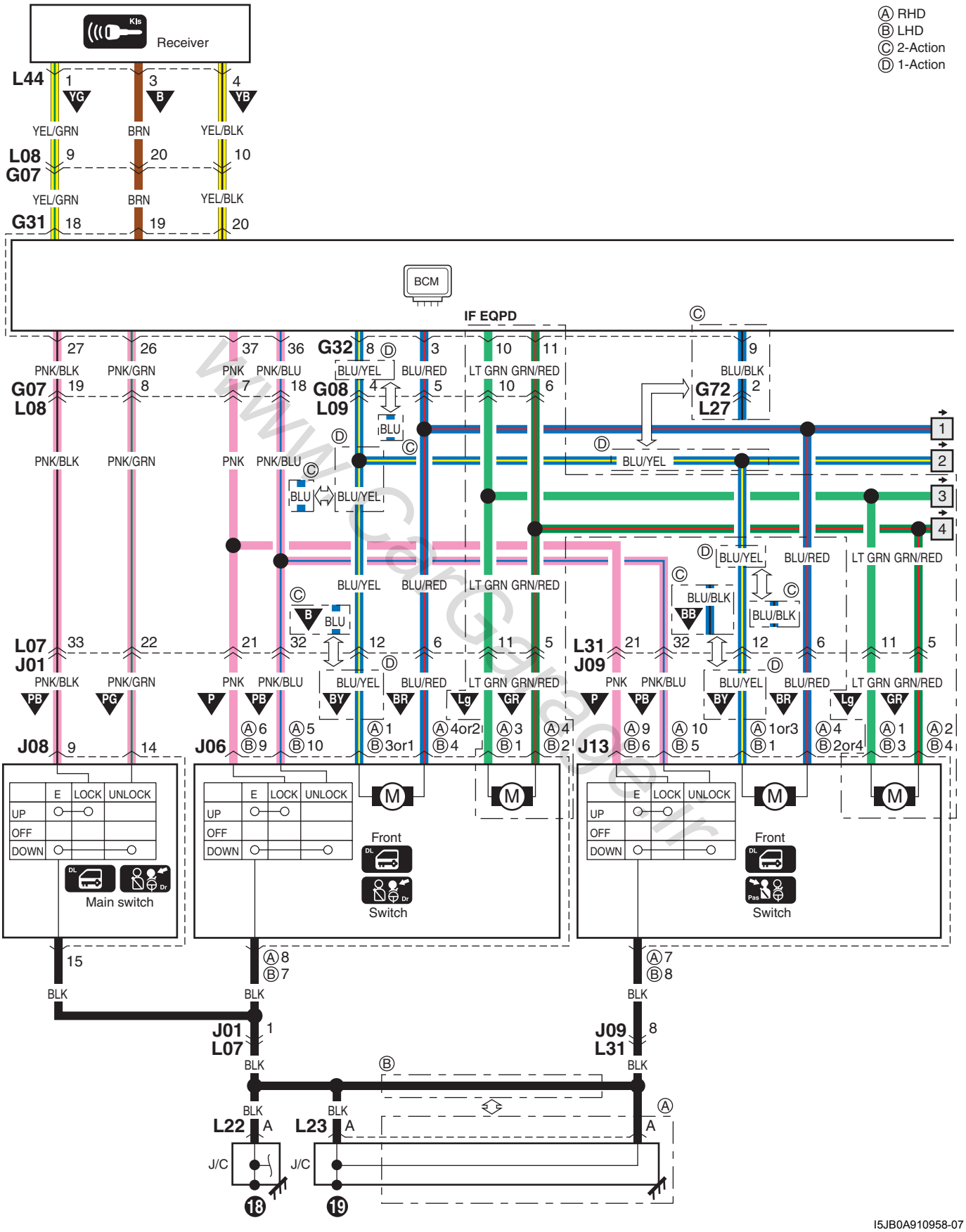
B-5 Power Door Lock Circuit Diagram

S5JB0A910E013



I5JB0A910958-07

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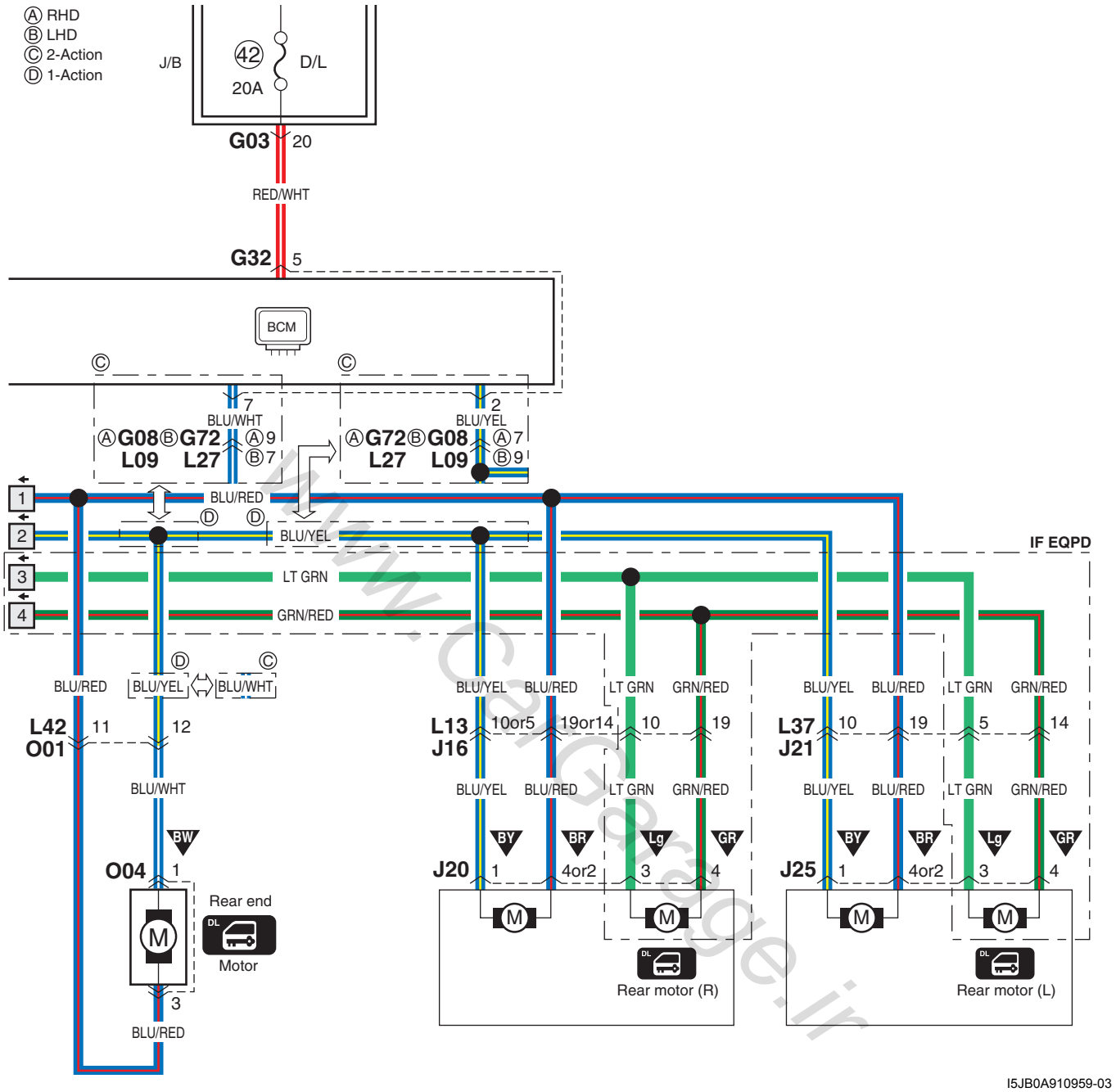
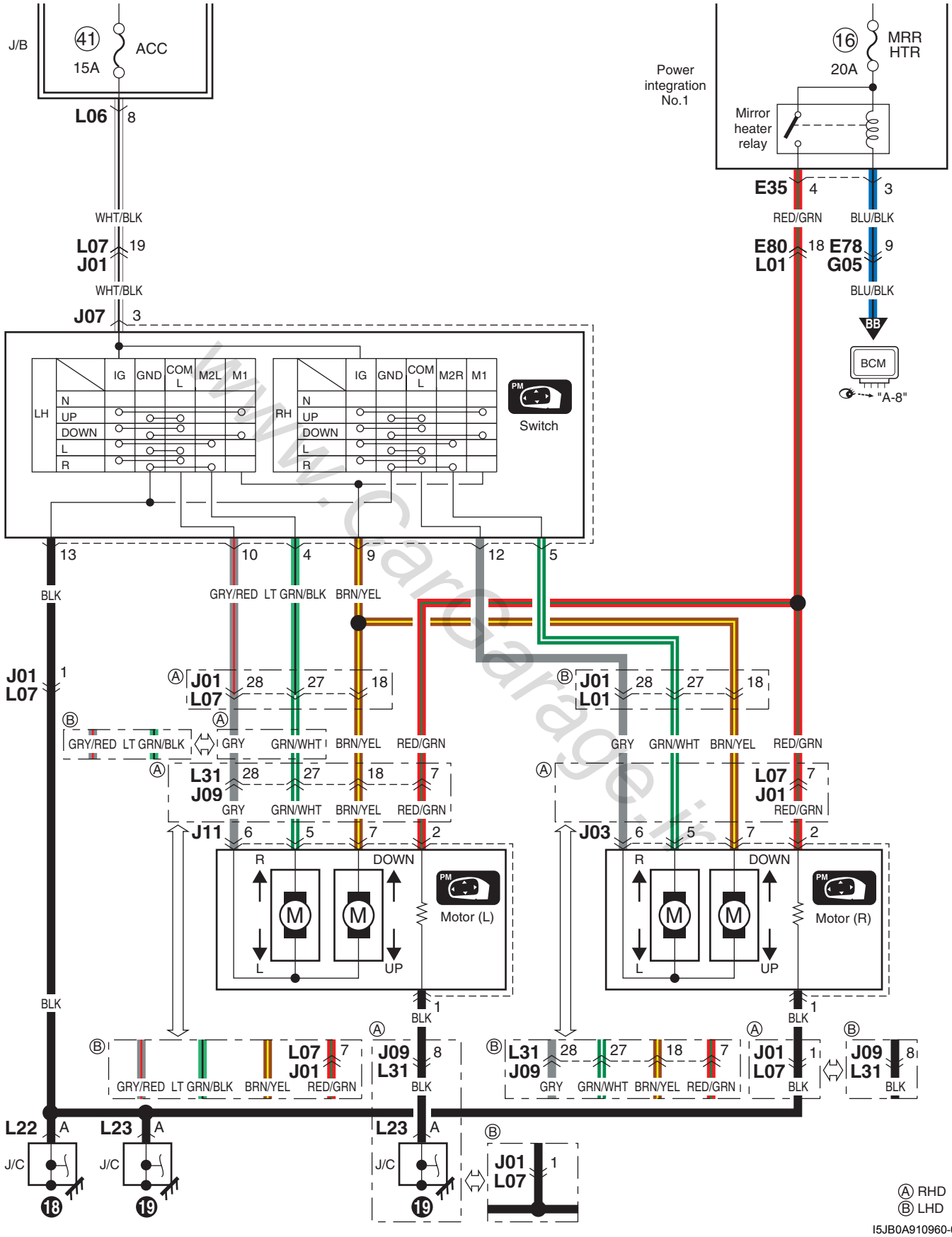


I5JB0A910959-03

www.CarGarage.ir

B-6 Power Mirror Circuit Diagram

S5JB0A910E014



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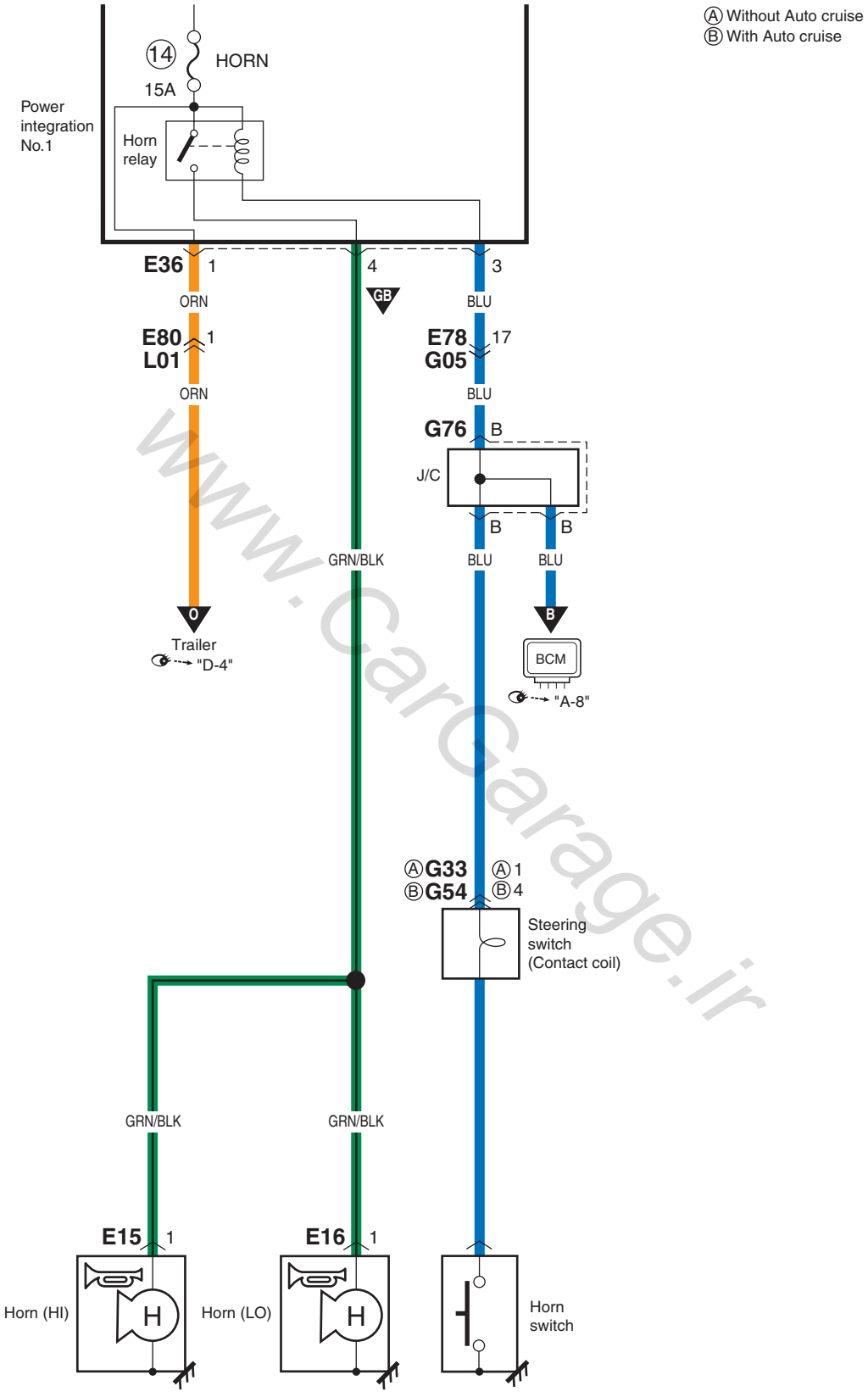
B-7 Horn Circuit Diagram

S5JB0A910E015



I5JB0A910961-06

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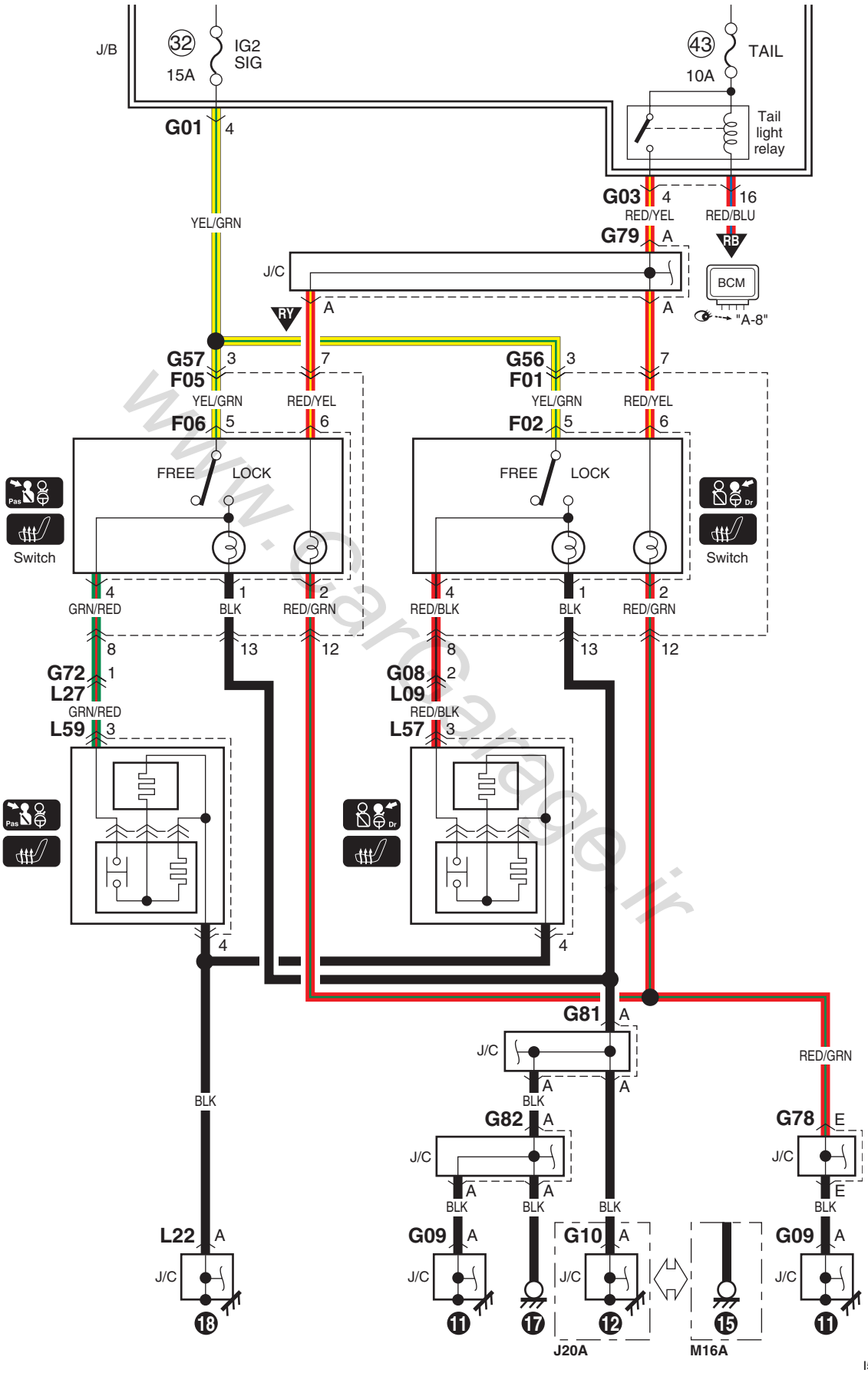
B-8 Seat Heater Circuit Diagram

S5JB0A910E035



I5JB0A910962-04

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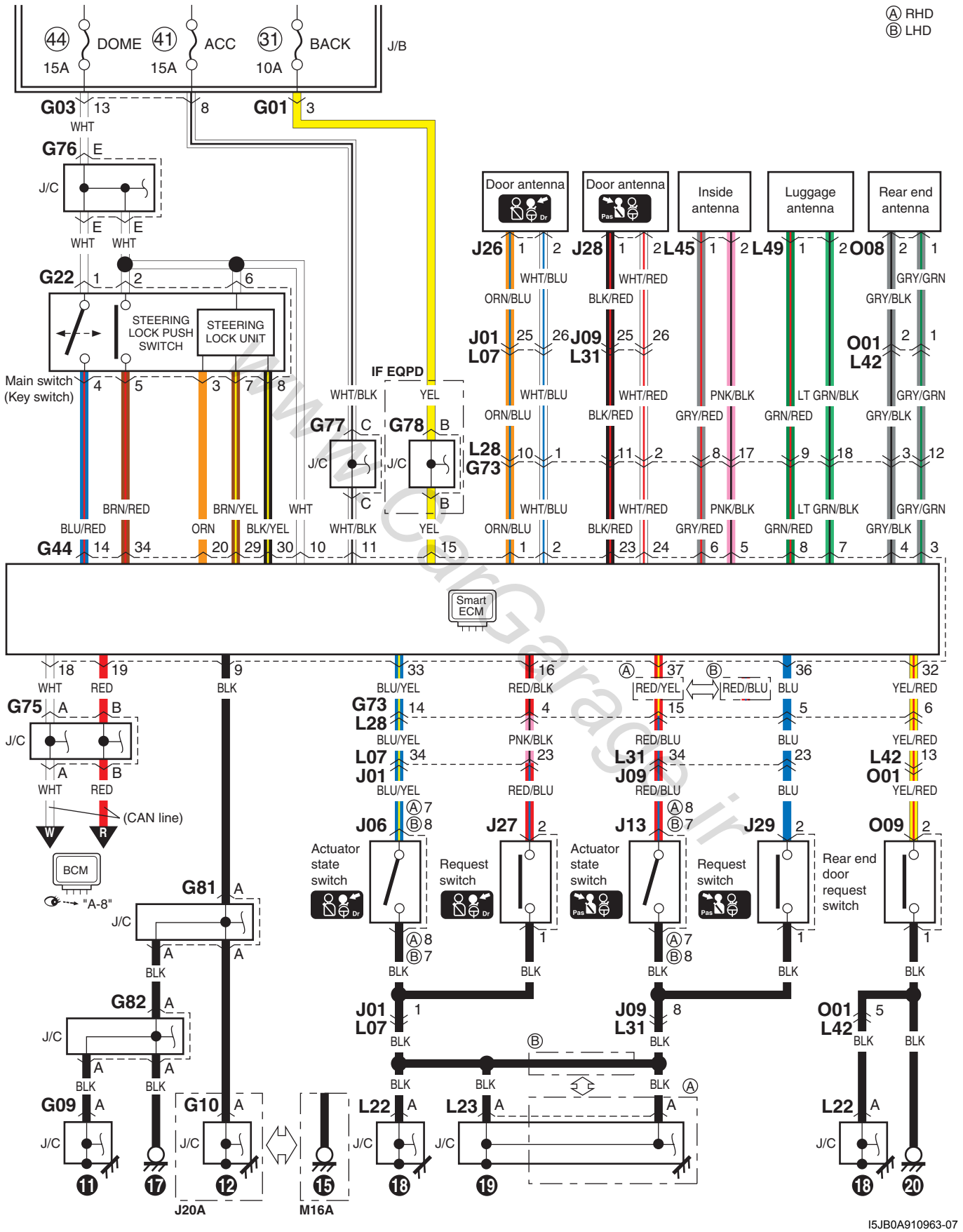
B-9 Smart Key System Circuit Diagram

S5JB0A910E036



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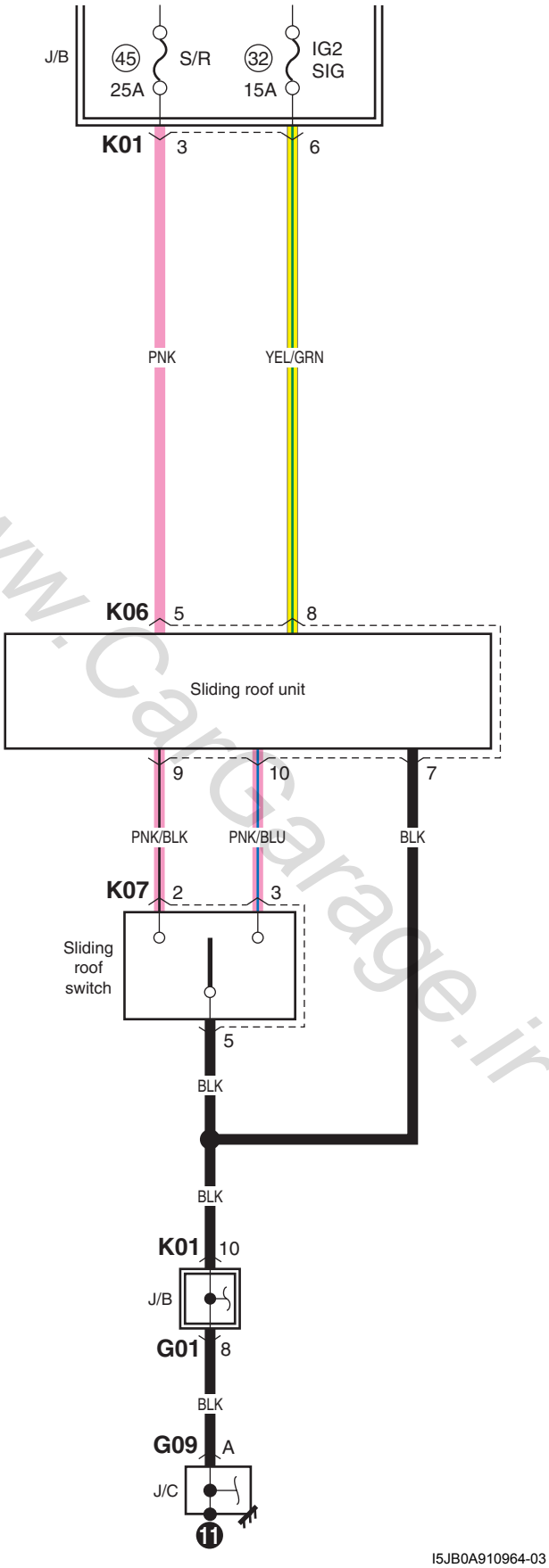
B-10 Sliding Roof Circuit Diagram

S5JB0A910E042



I5JB0A910964-03

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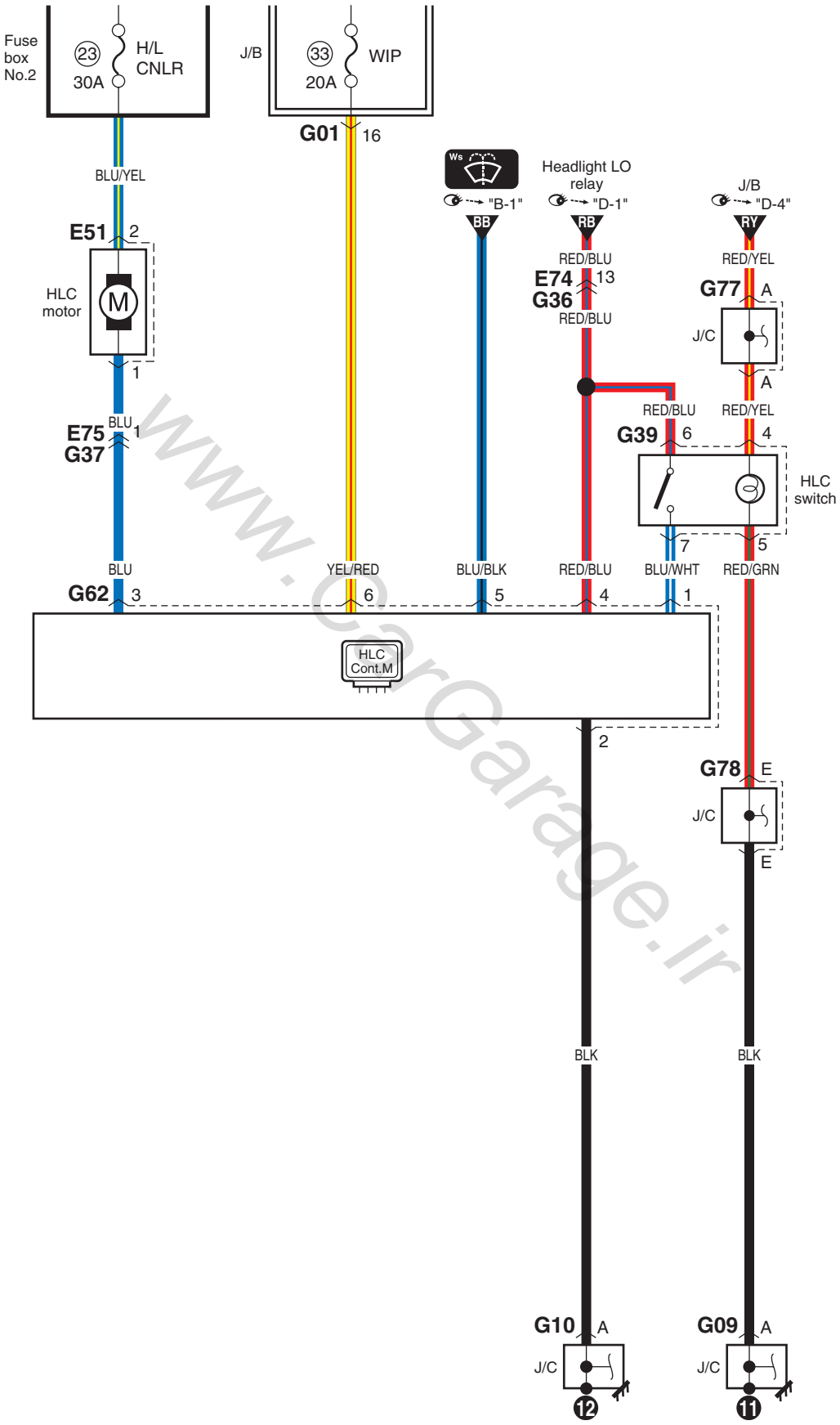
B-11 Headlight Cleaner Circuit Diagram

S5JB0A910E043



I5JB0A910965-08

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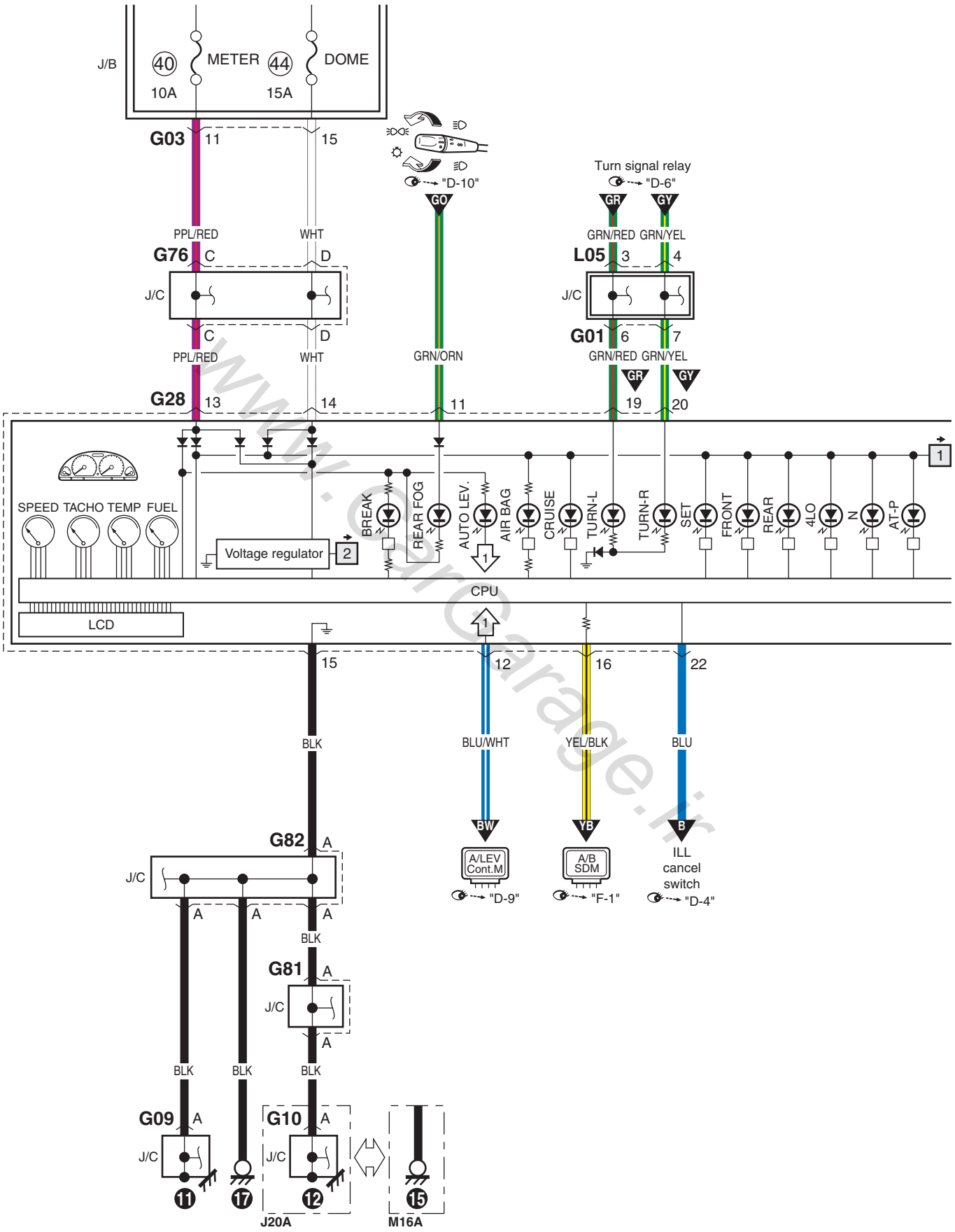
C-1 Combination Meter Circuit Diagram

S5JB0A910E017



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I5JB0A910966-03

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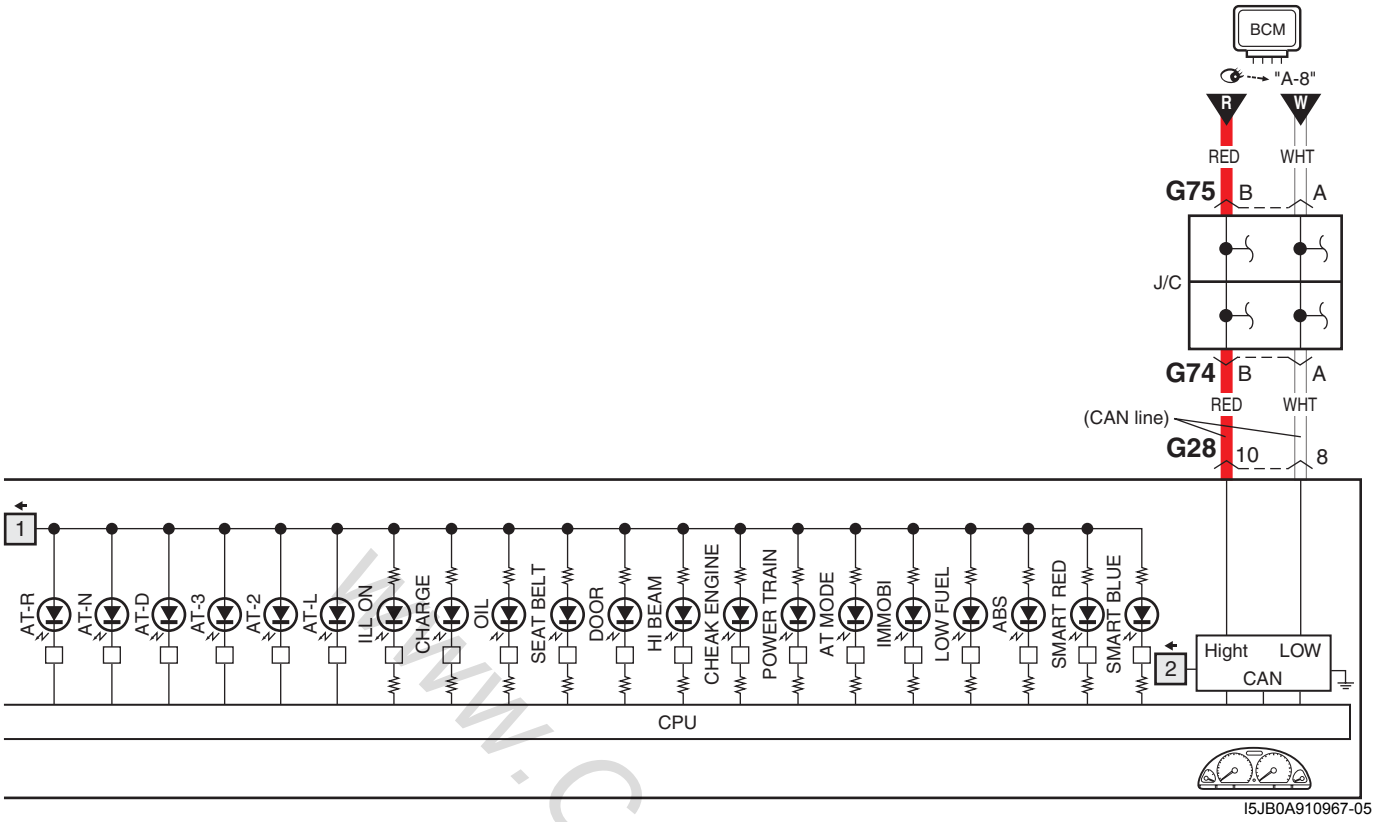

I5JB0A910967-05

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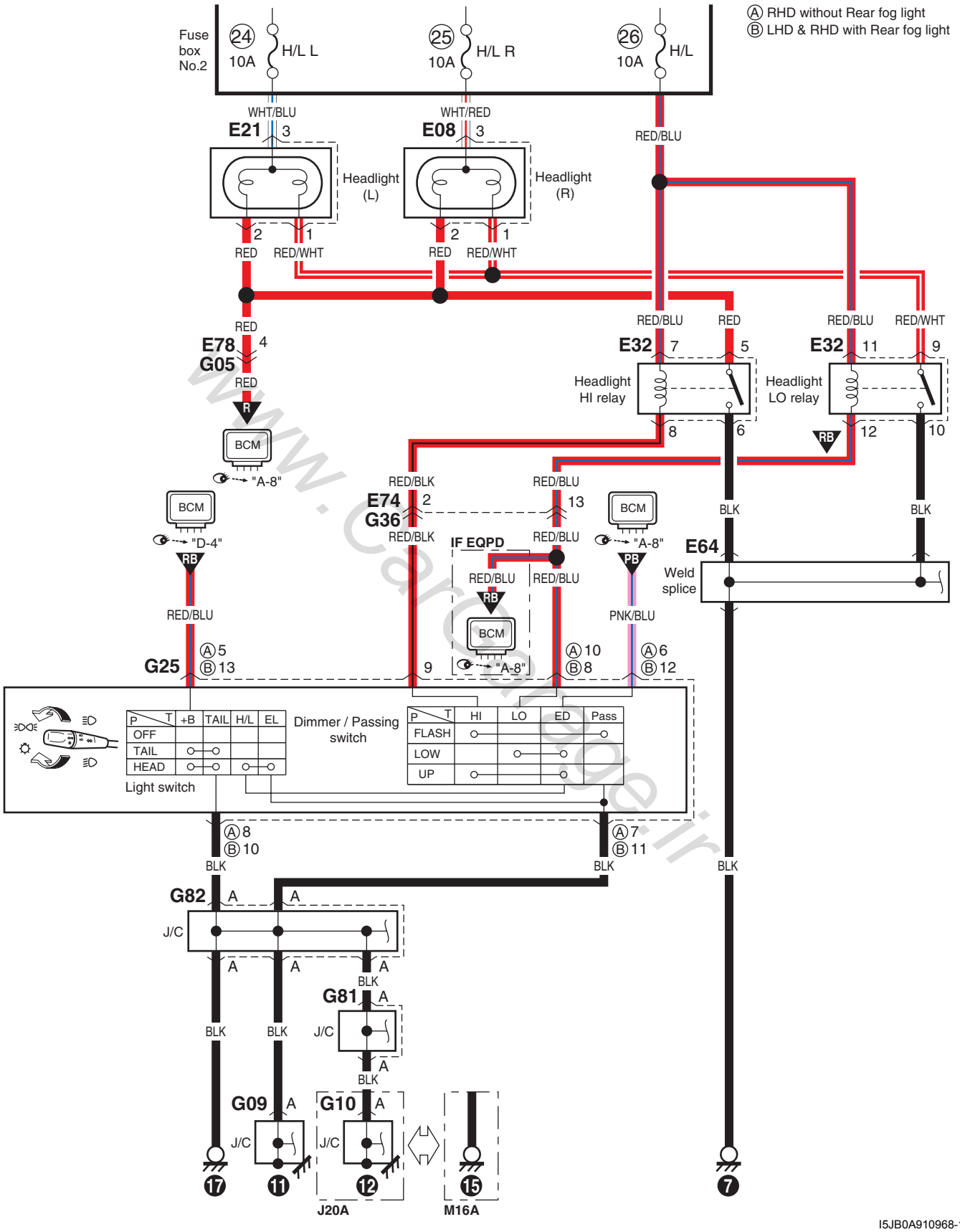
D-1 Headlight System Circuit Diagram (One bulb type)

S5JB0A910E019



I5JB0A910968-10

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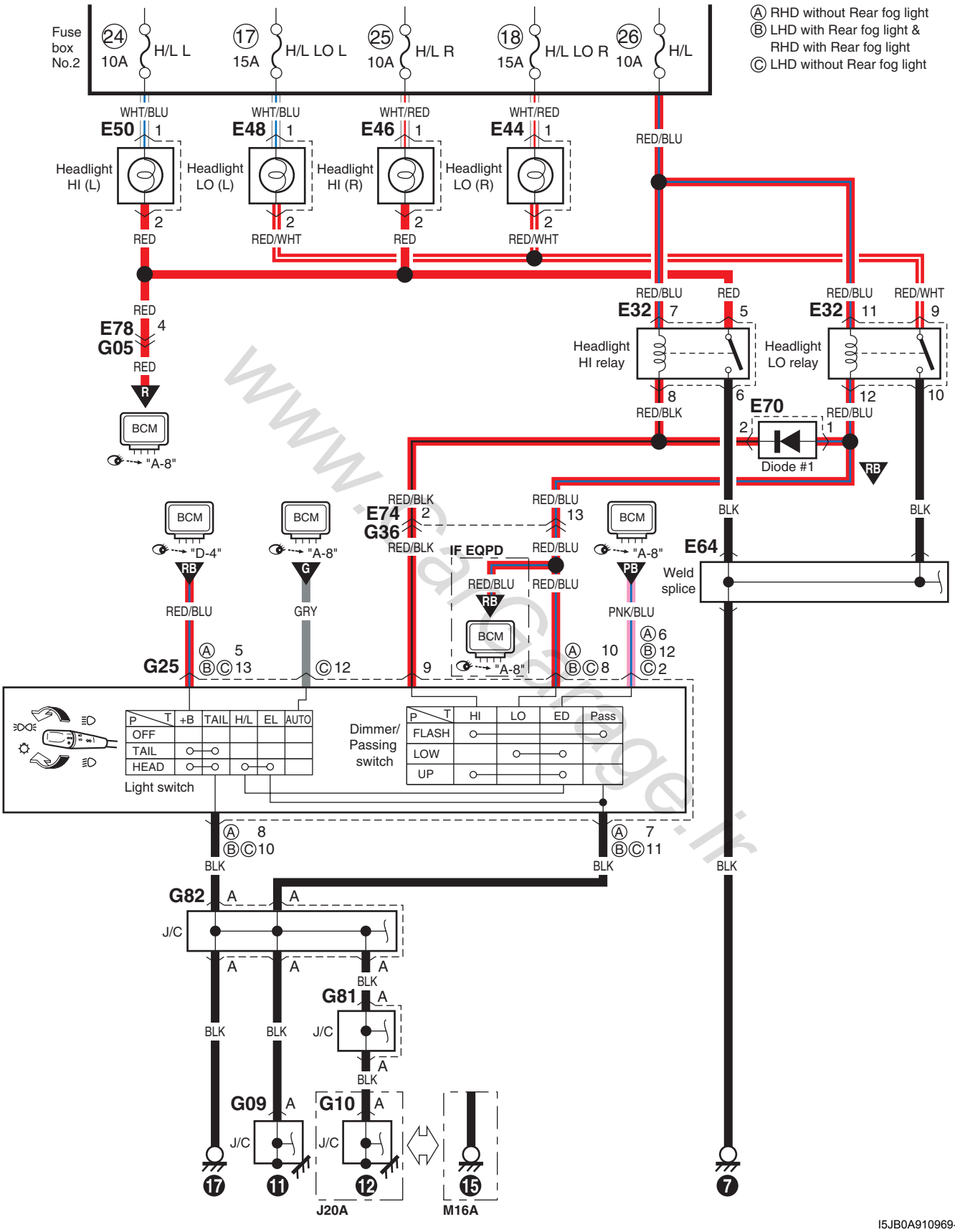
D-1 Headlight System Circuit Diagram (With Projector light)

S5JB0A910E044



I5JB0A910969-12

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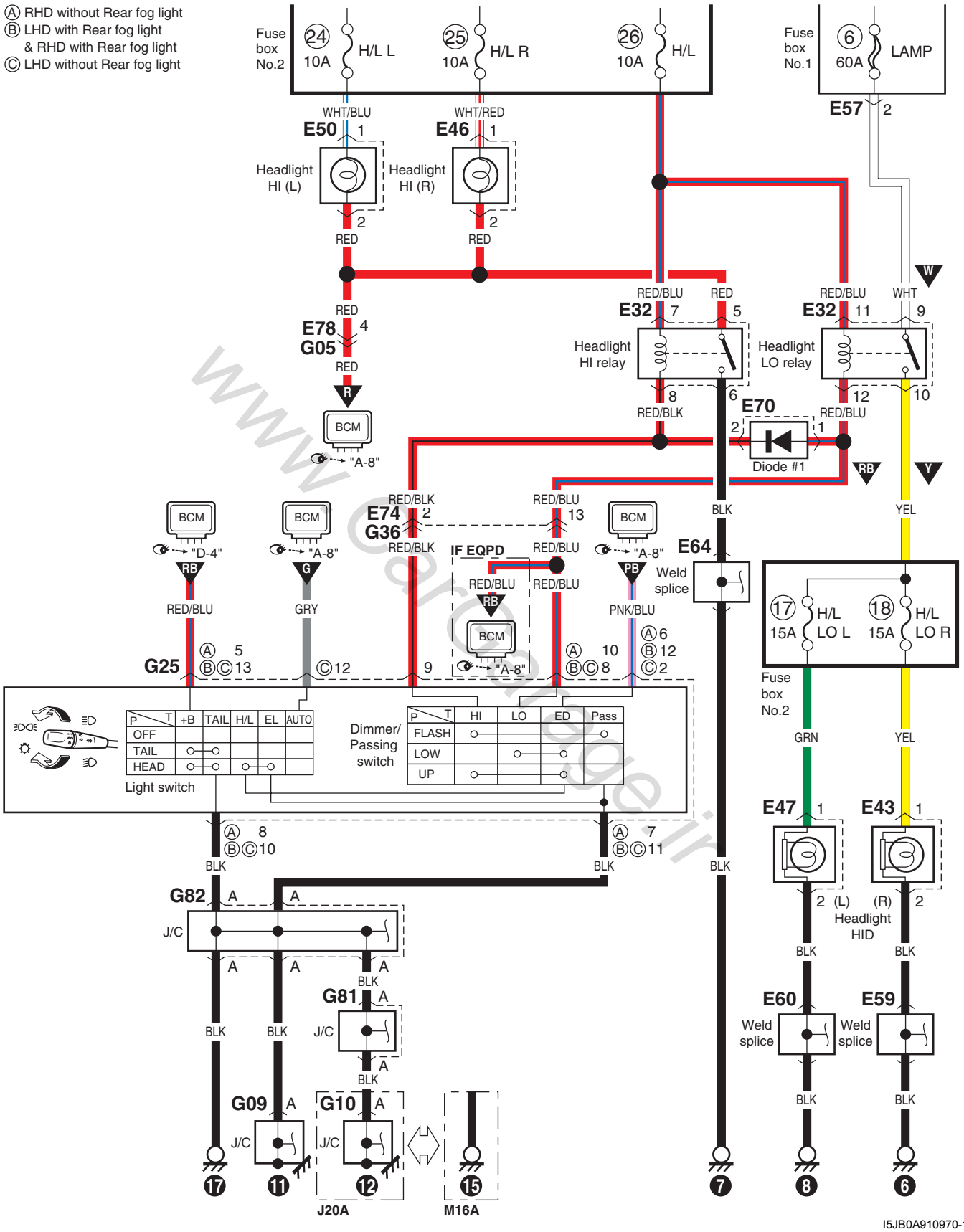
D-1 Headlight System Circuit Diagram (With Discharge bulb)

S5JB0A910E045

Ⓐ RHD without Rear fog light
Ⓑ LHD with Rear fog light & RHD with Rear fog light
Ⓒ LHD without Rear fog light



I5JB0A910970-14

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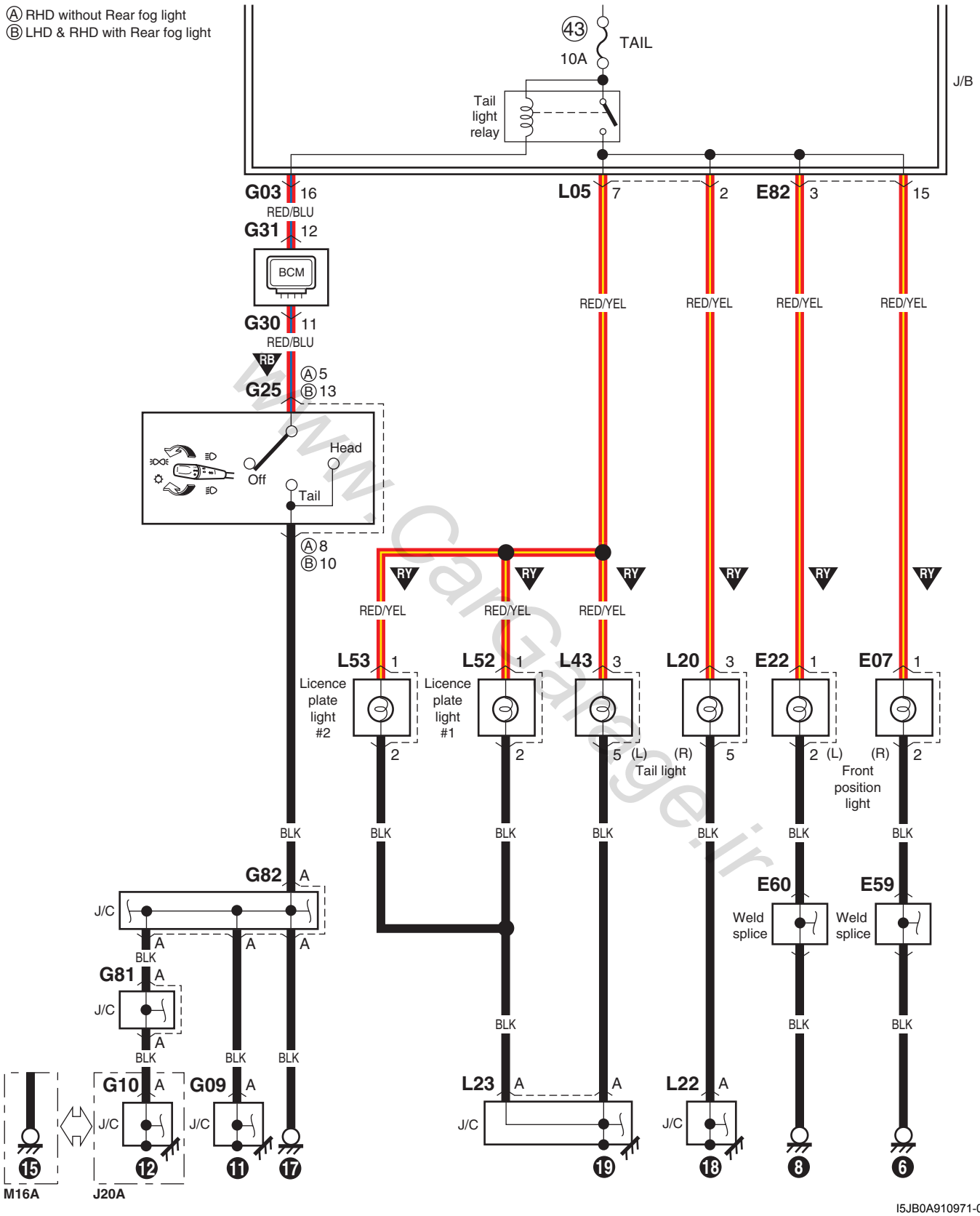
D-2 Position, Tail and Licence Plate Light System Circuit Diagram

S5JB0A910E020



I5JB0A910971-03

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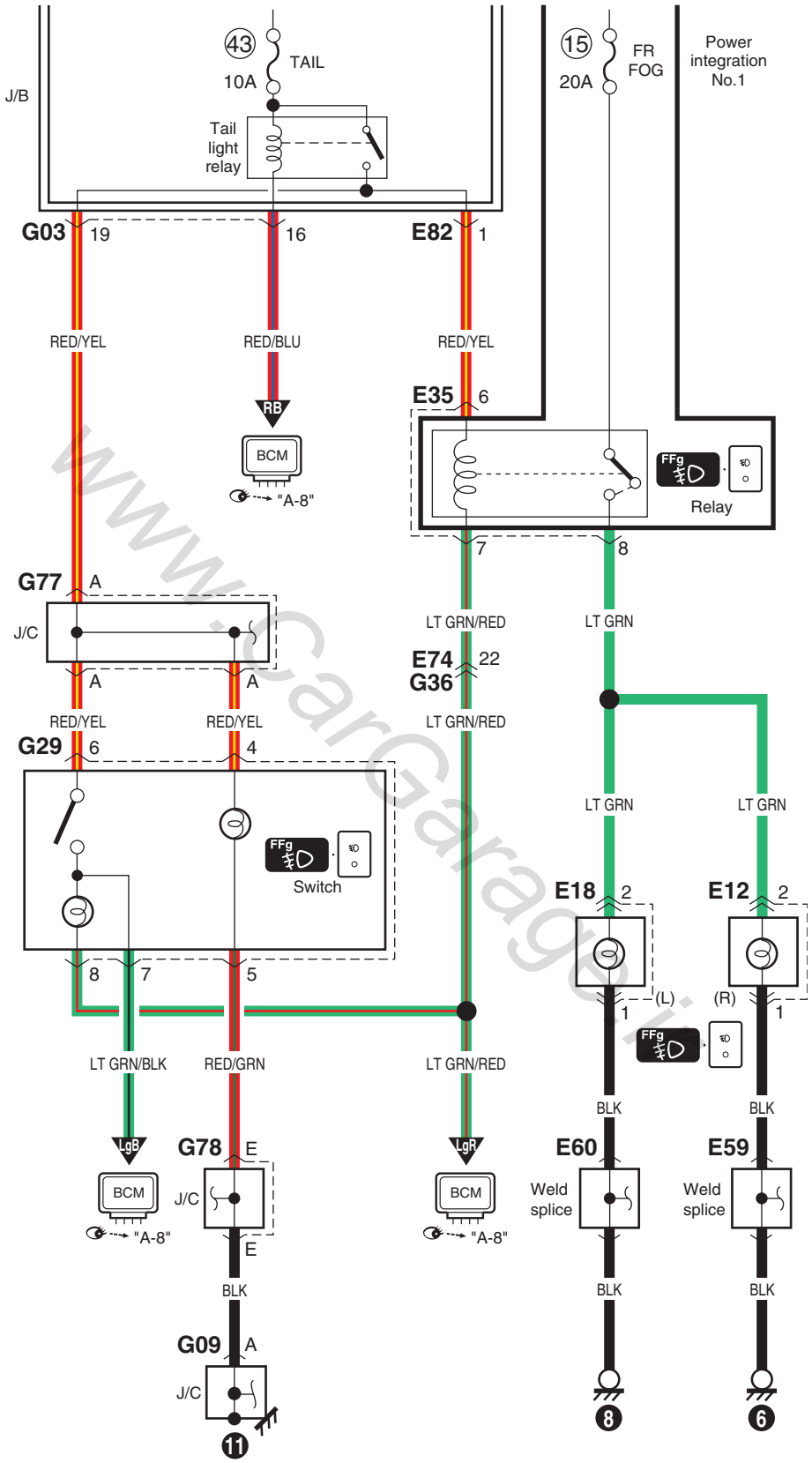
D-3 Front Fog Light System Circuit Diagram

S5JB0A910E021



I5JB0A910972-07

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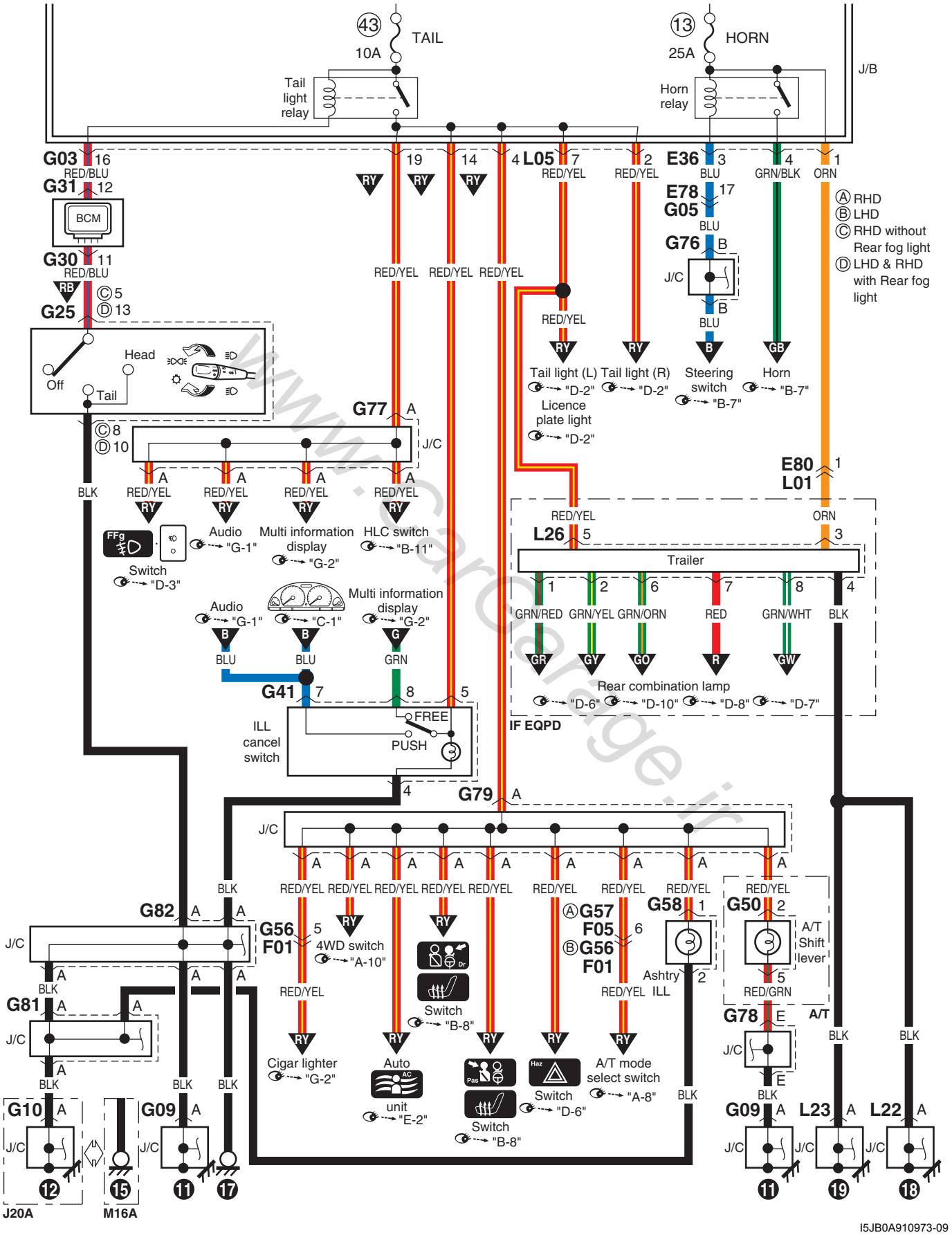
D-4 Illumination Light System Circuit Diagram

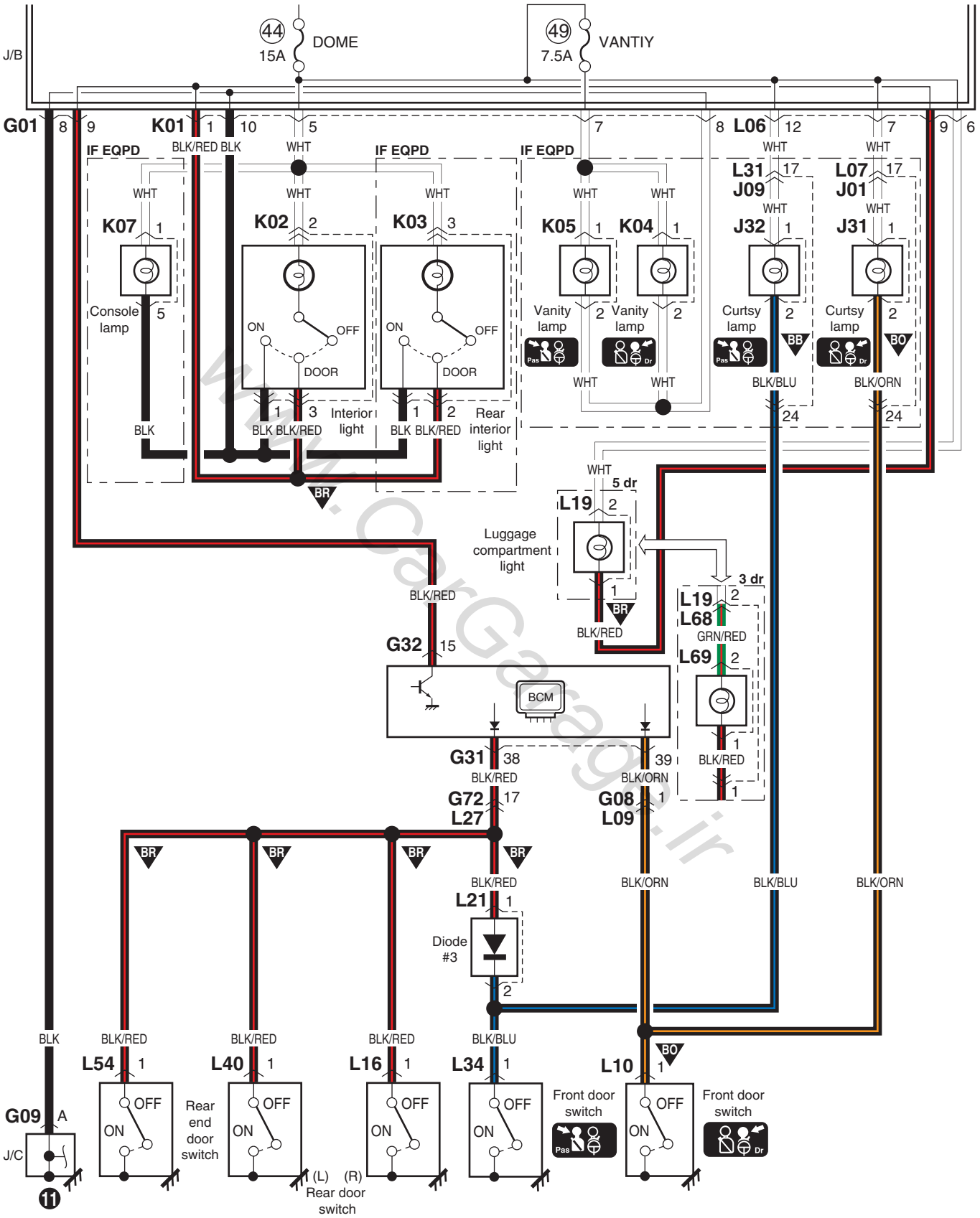
S5JB0A910E022



I5JB0A910973-09

D-5 Interior Light System Circuit Diagram

S5JB0A910E023



I5JB0A910974-03

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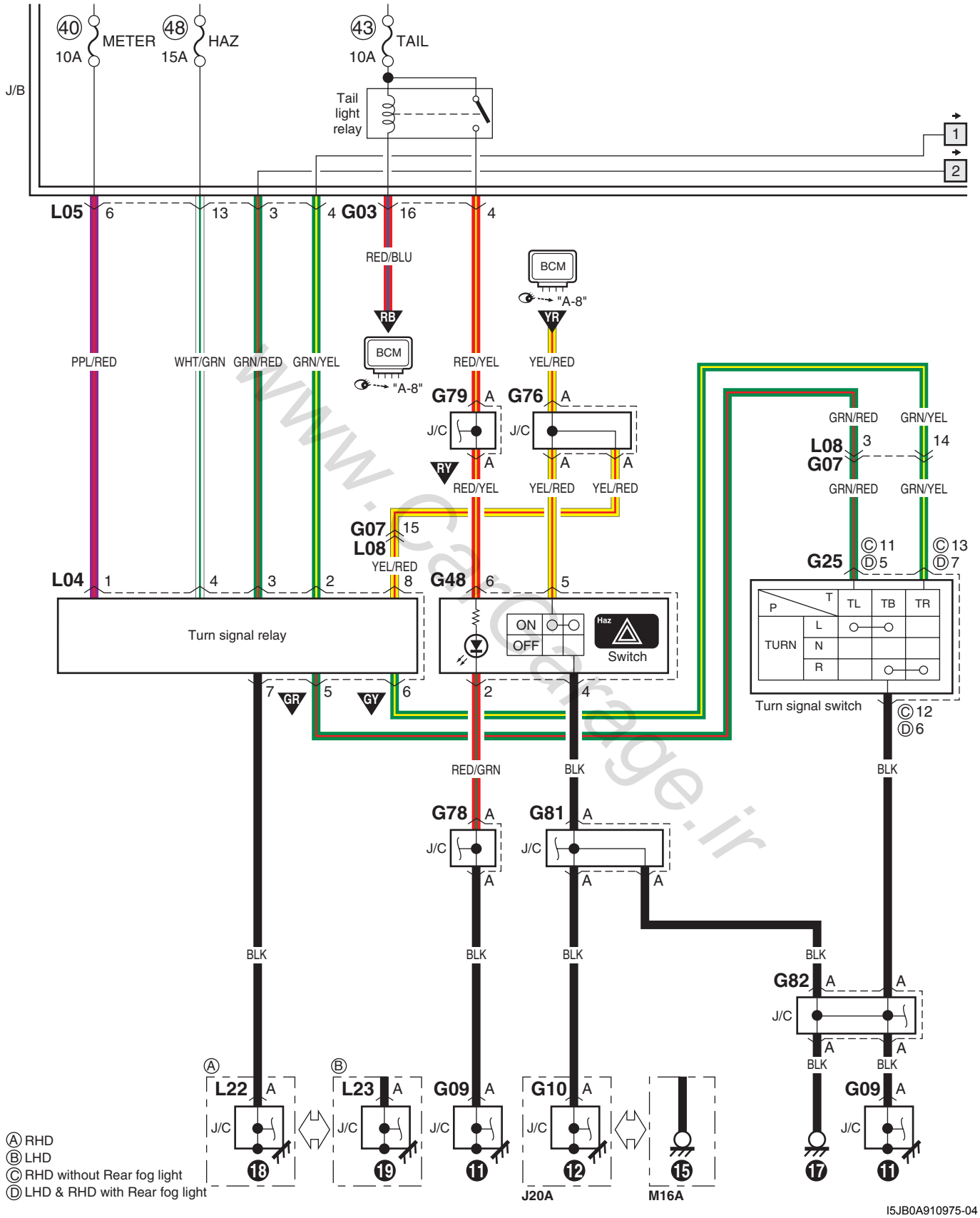
D-6 Turn Signal and Hazard Warning Light System Circuit Diagram

S5JB0A910E024



Ⓐ RHD
Ⓑ LHD
Ⓒ RHD without Rear fog light
Ⓓ LHD & RHD with Rear fog light

I5JB0A910975-04

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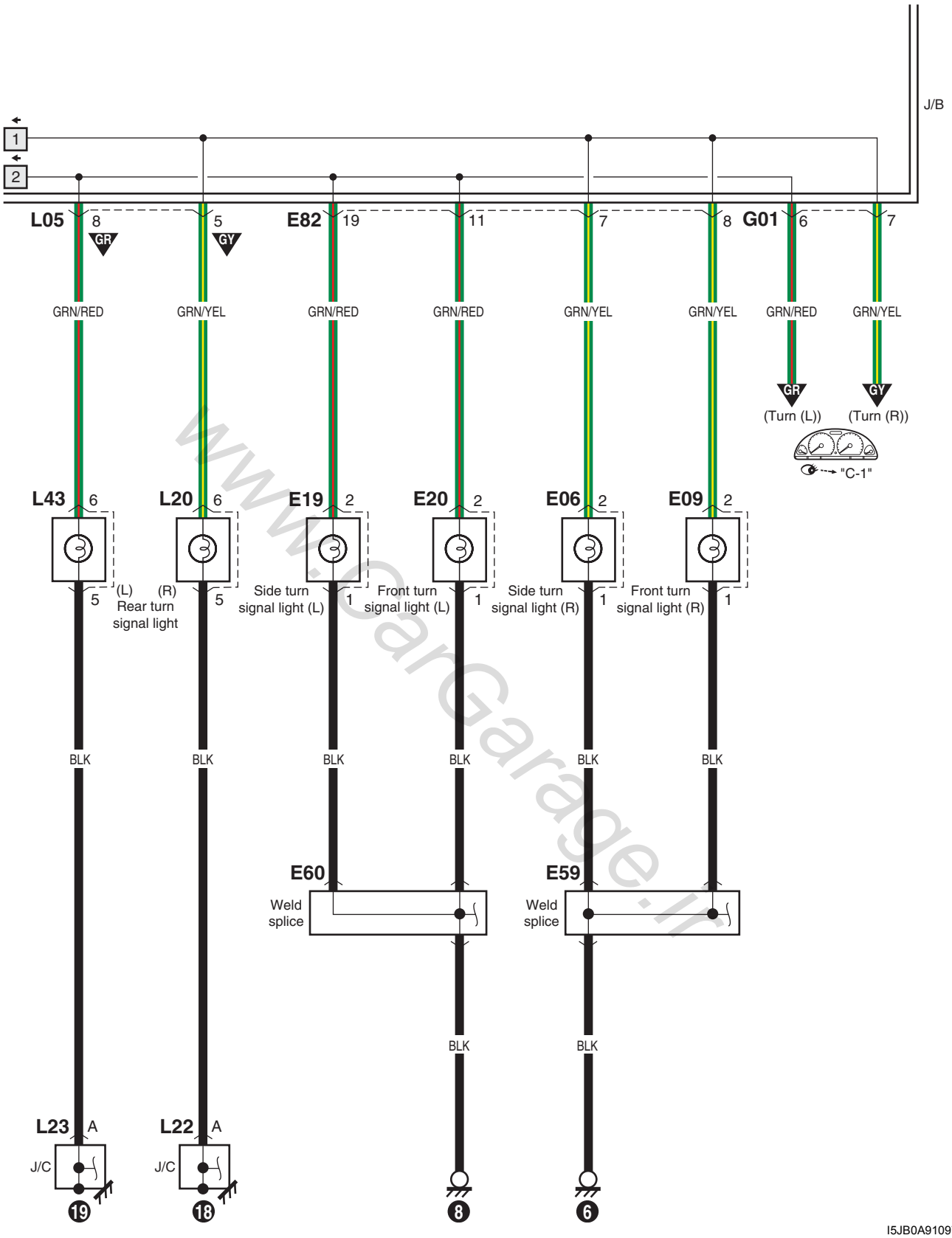

I5JB0A910976-02

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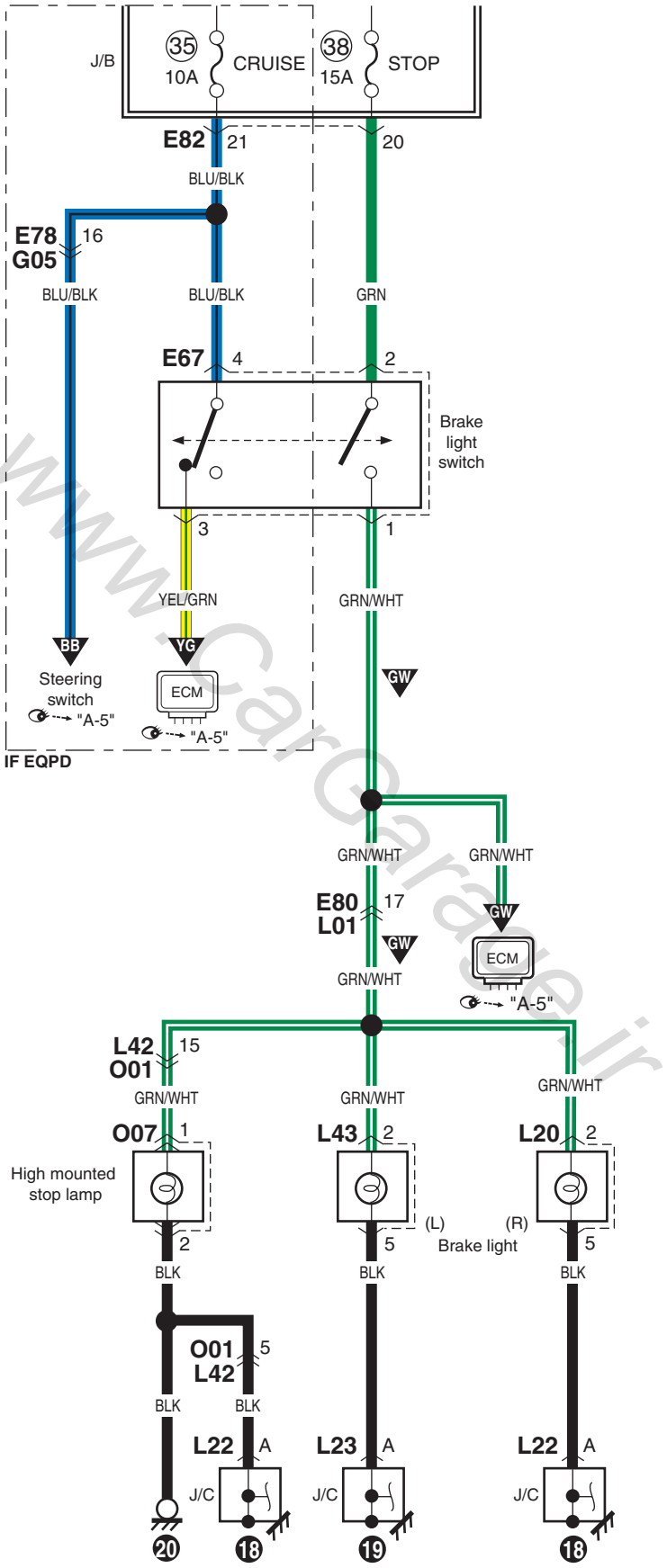
www.CarGarage.ir

D-7 Brake Light System Circuit Diagram

S5JB0A910E025



I5JB0A910977-03

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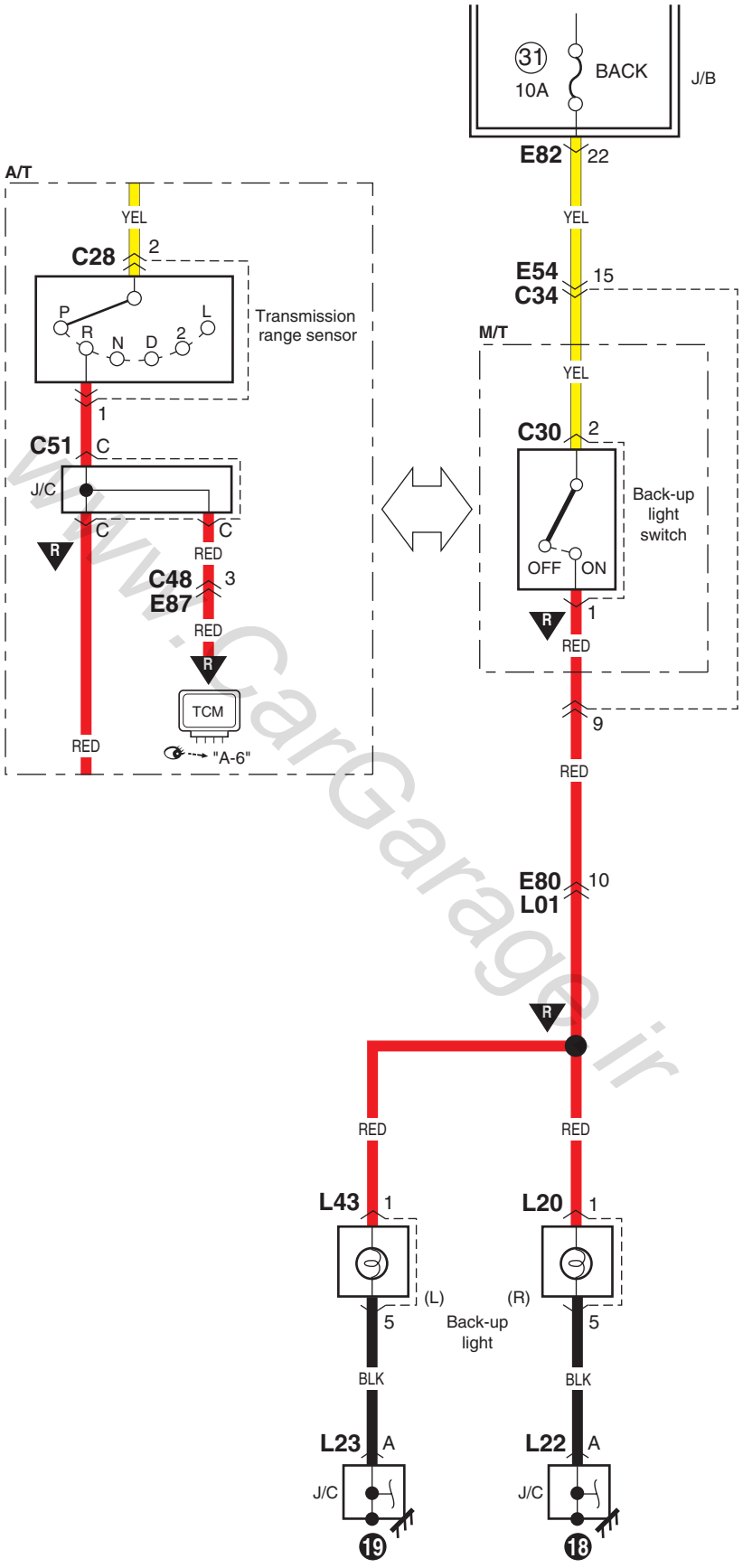
D-8 Back-Up Light System Circuit Diagram

S5JB0A910E026



I5JB0A910978-02

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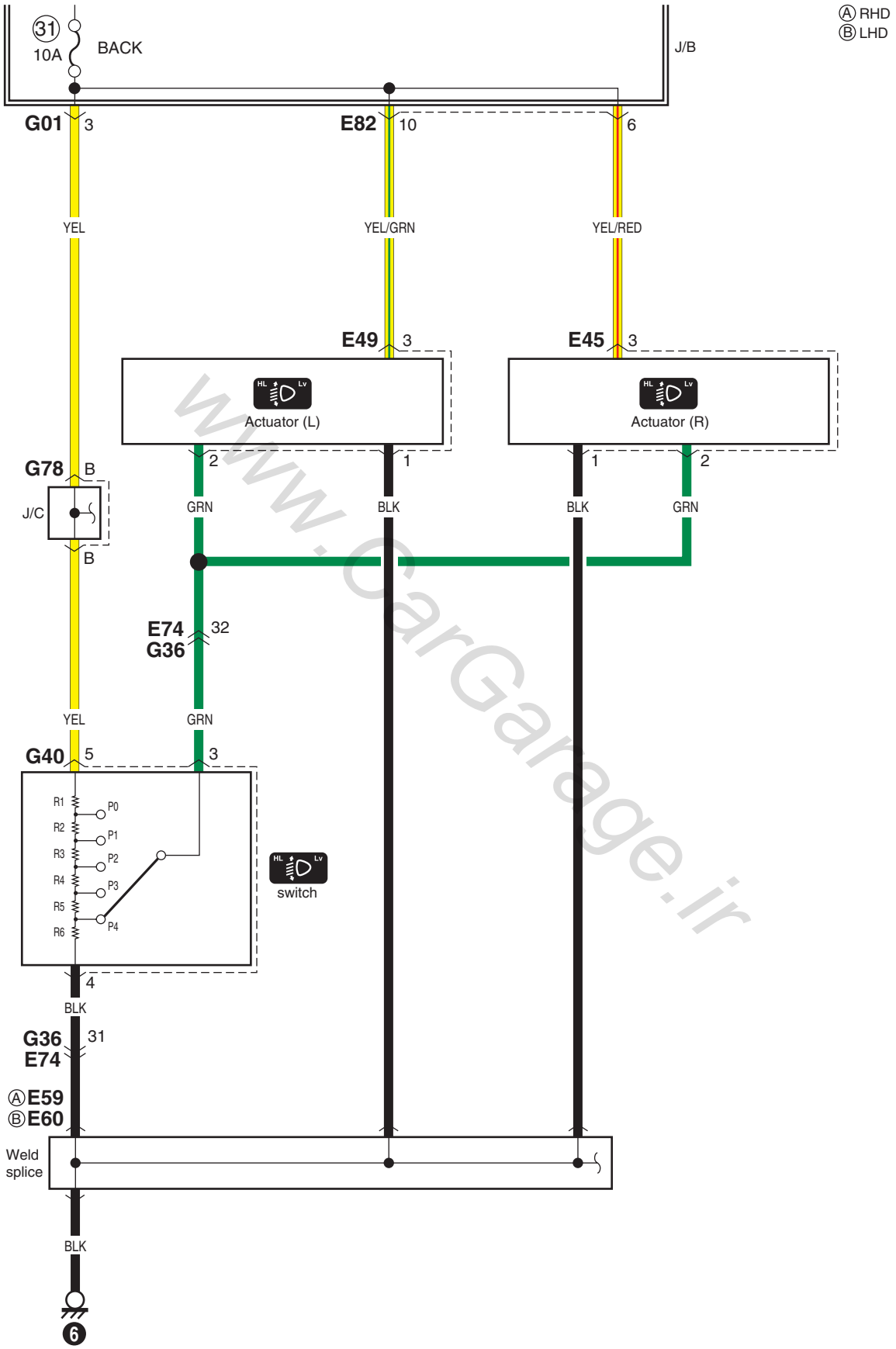
D-9 Headlight Beam Leveling System Circuit Diagram (Manual Leveling)

S5JB0A910E037



I5JB0A910979-04

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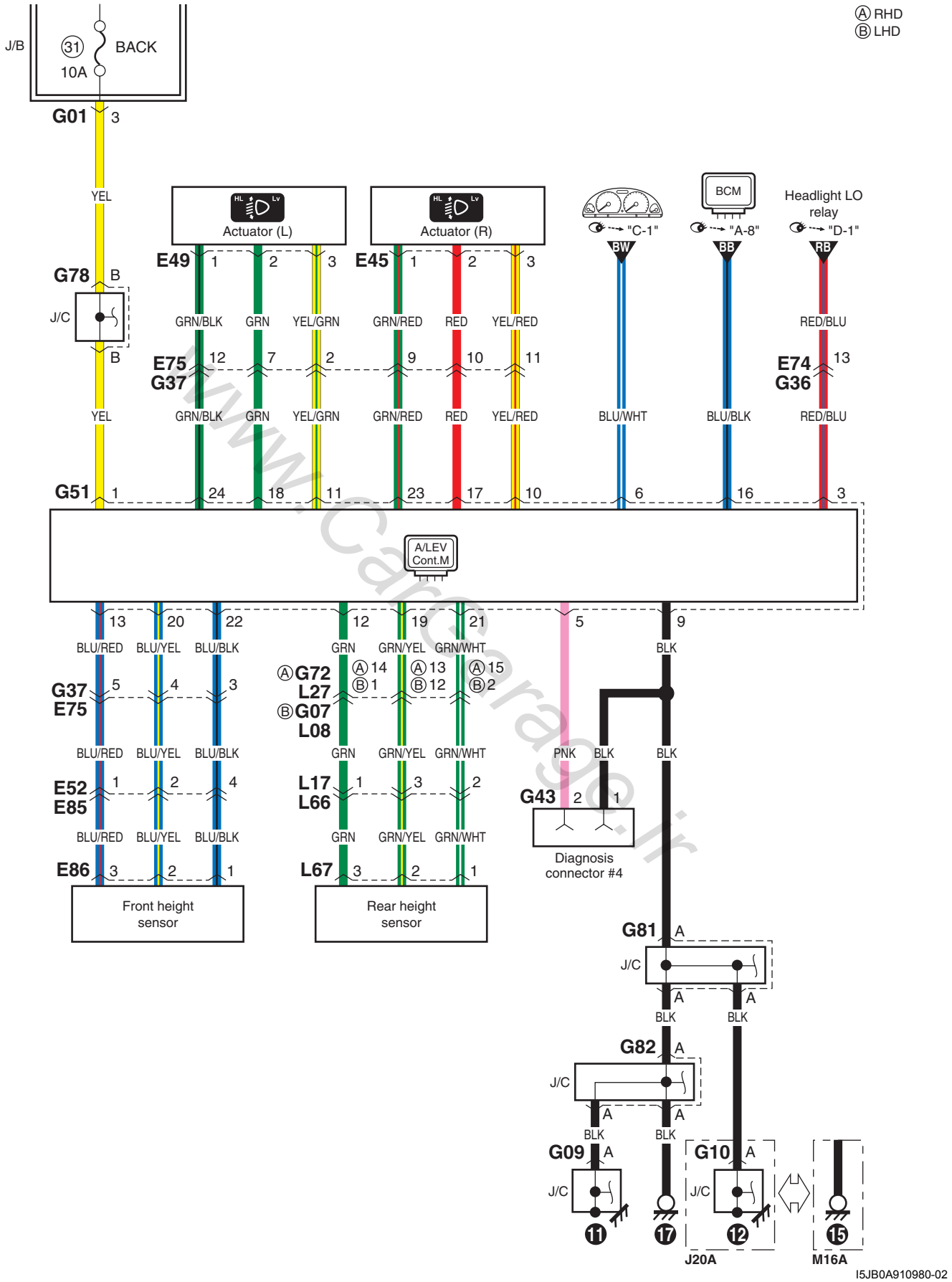
D-9 Headlight Beam Leveling System Circuit Diagram (Auto Leveling)

S5JB0A910E046



I5JB0A910980-02

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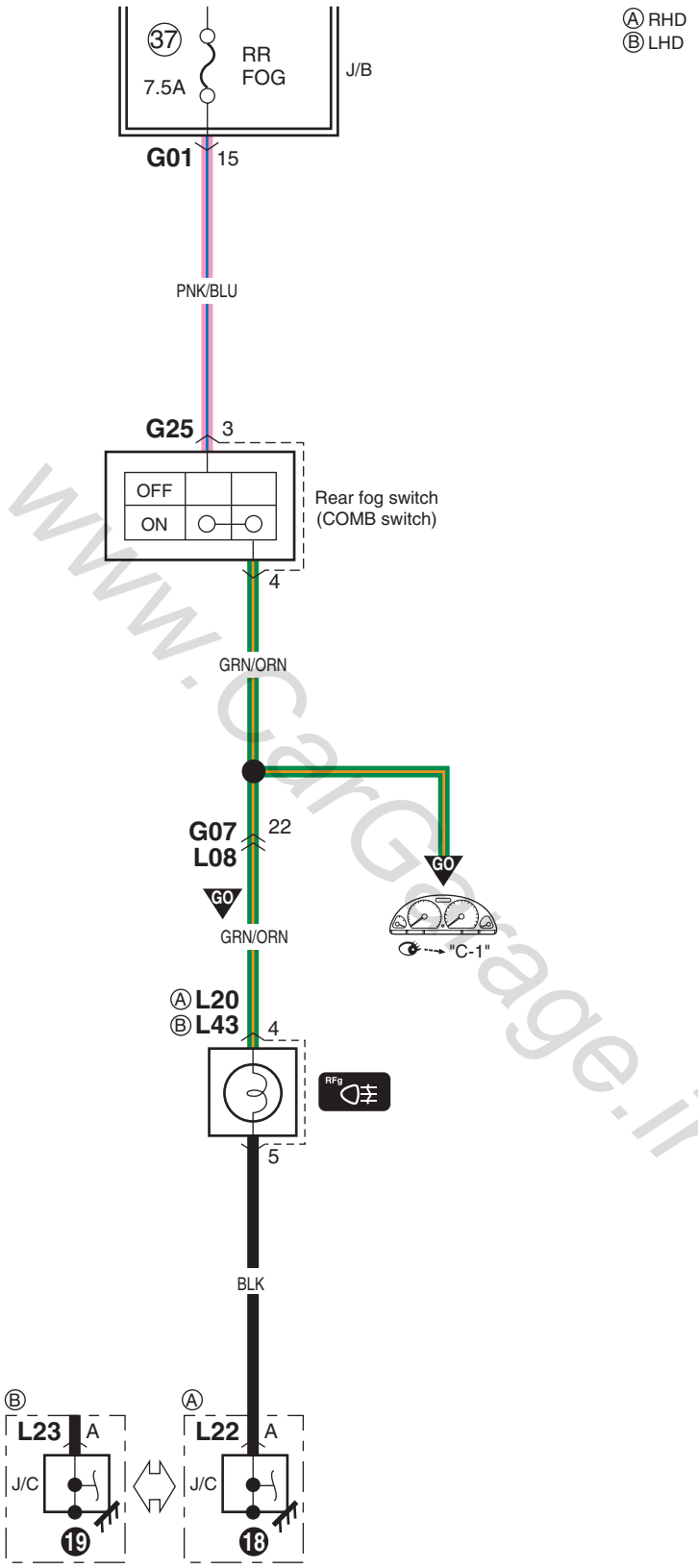
D-10 Rear Fog Light Circuit Diagram

S5JB0A910E038



I5JB0A910981-02

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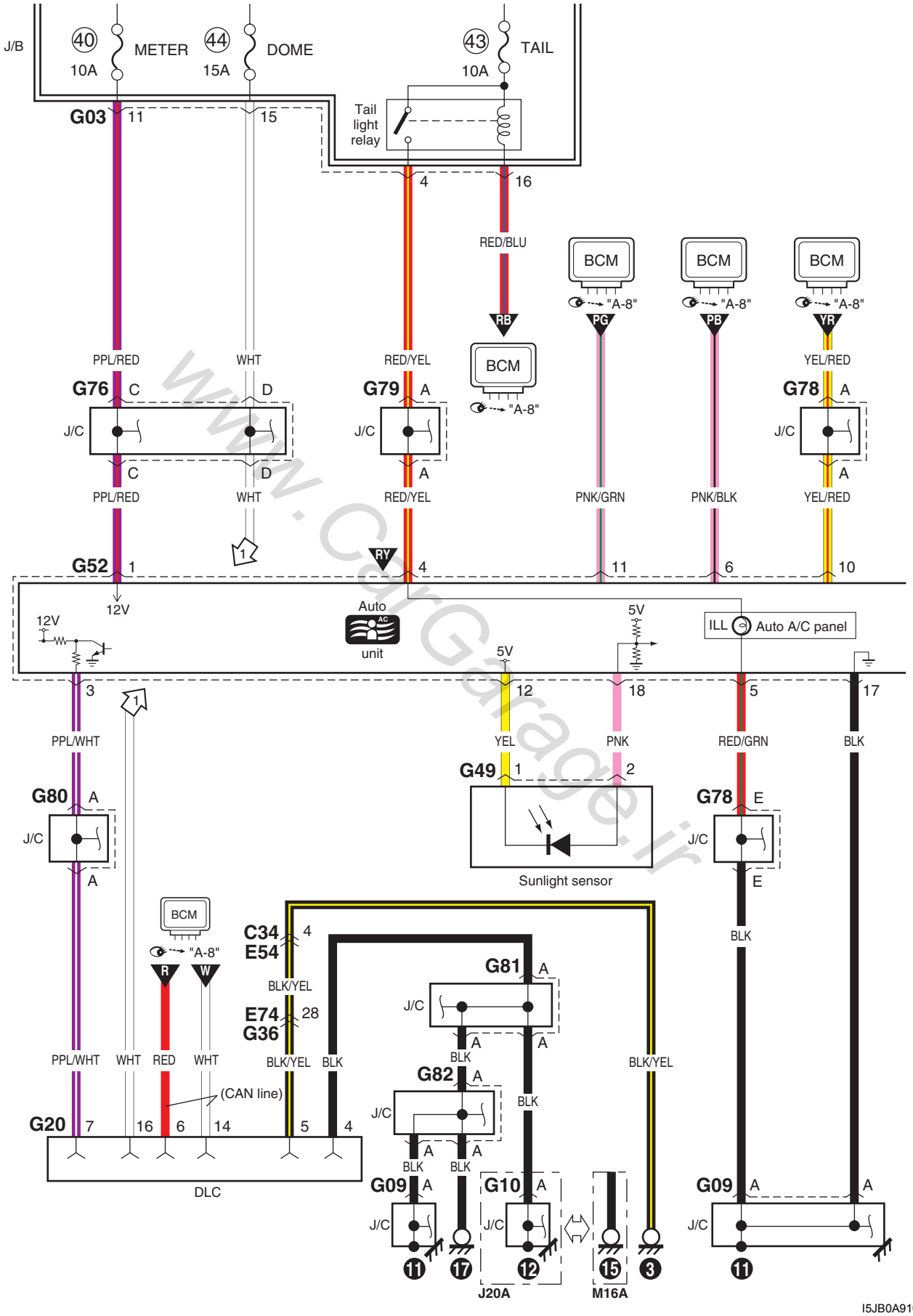
E-2 Auto A/C System Circuit Diagram

S5JB0A910E047



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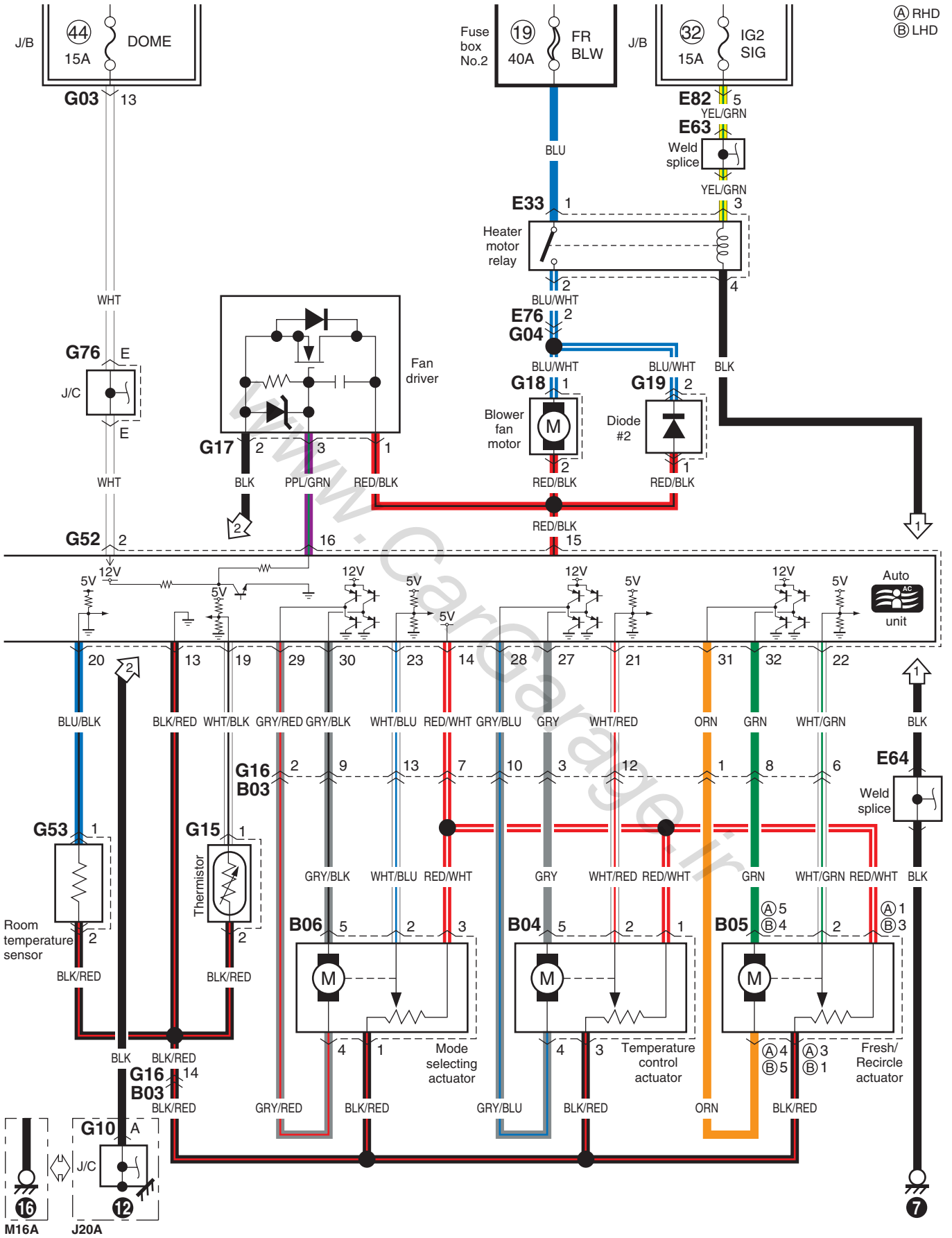

I5JB0A910983-11

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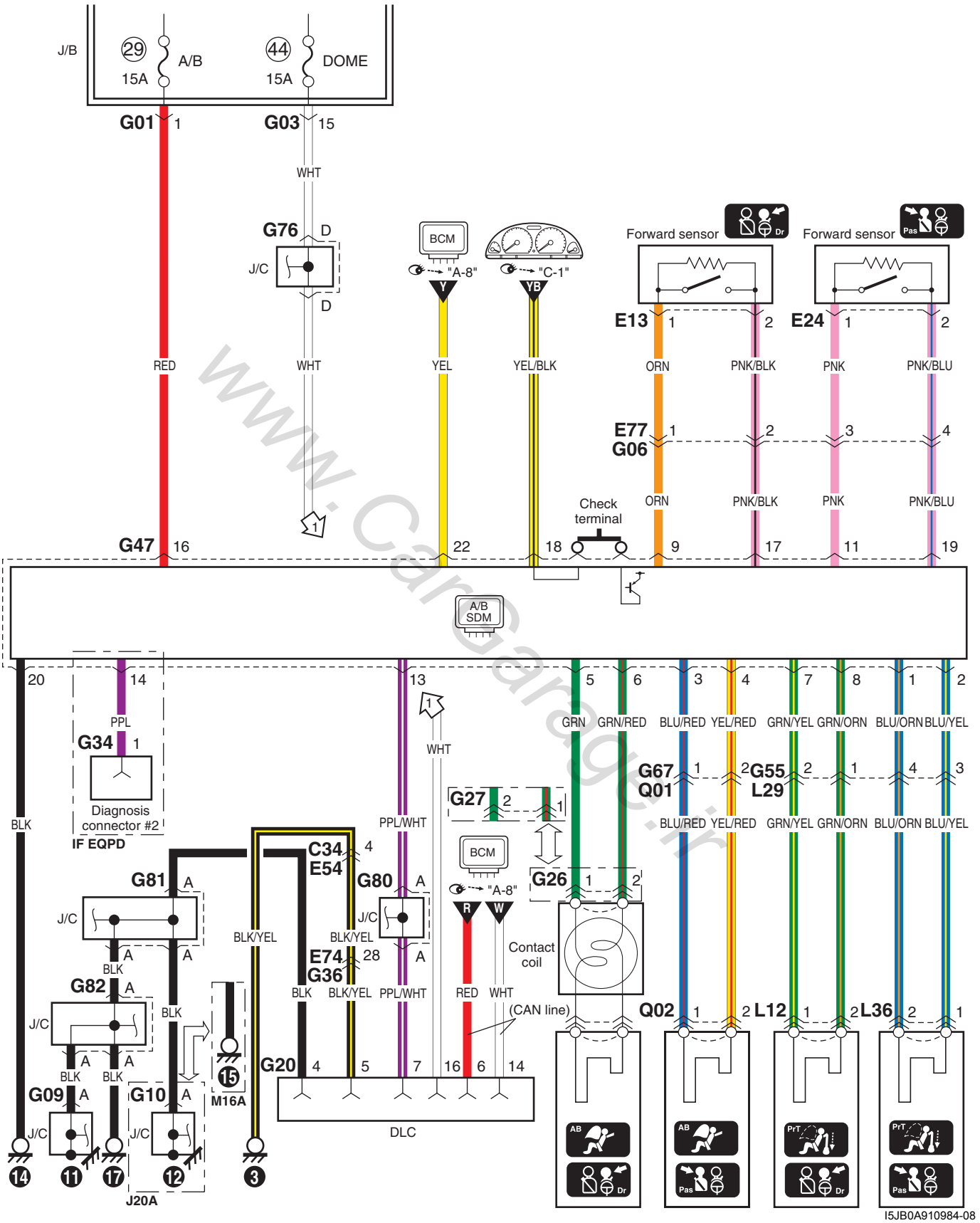
F-1 Air-Bag System Circuit Diagram (Without side A/B and Curtain A/B)

S5JB0A910E028



I5JB0A910984-08

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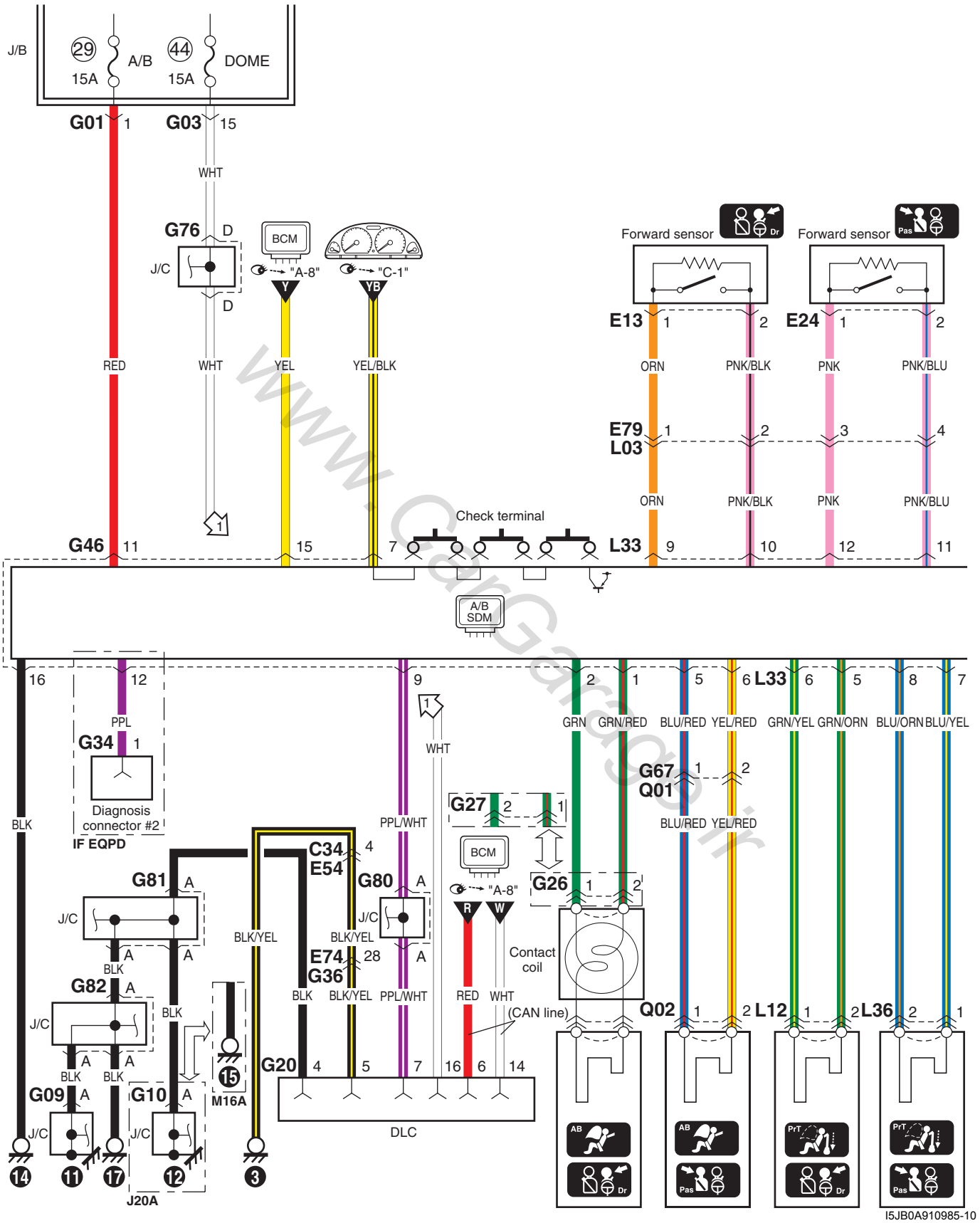
F-1 Air-Bag System Circuit Diagram (With side A/B and Curtain A/B)

S5JB0A910E048



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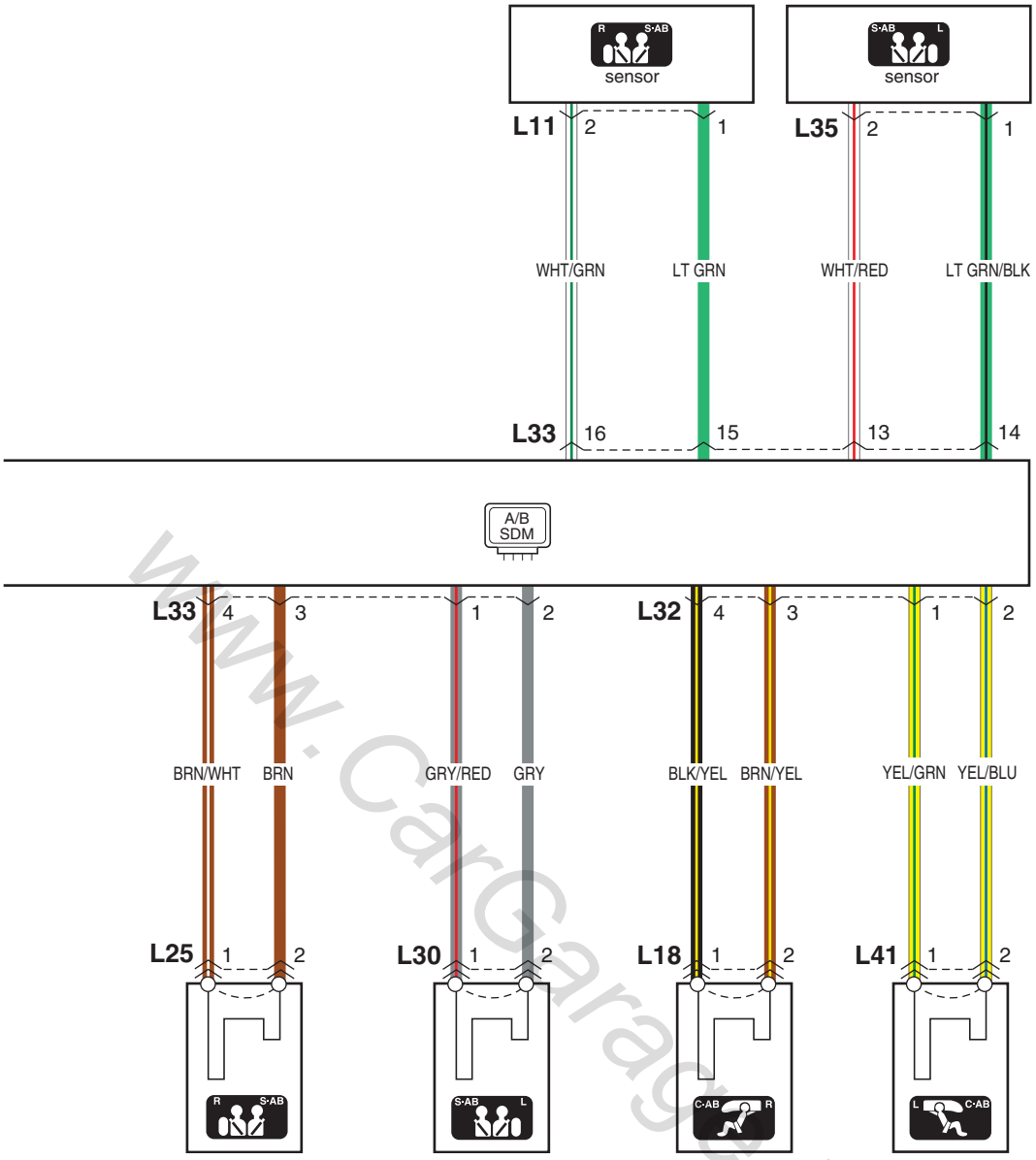

I5JB0A910986-05

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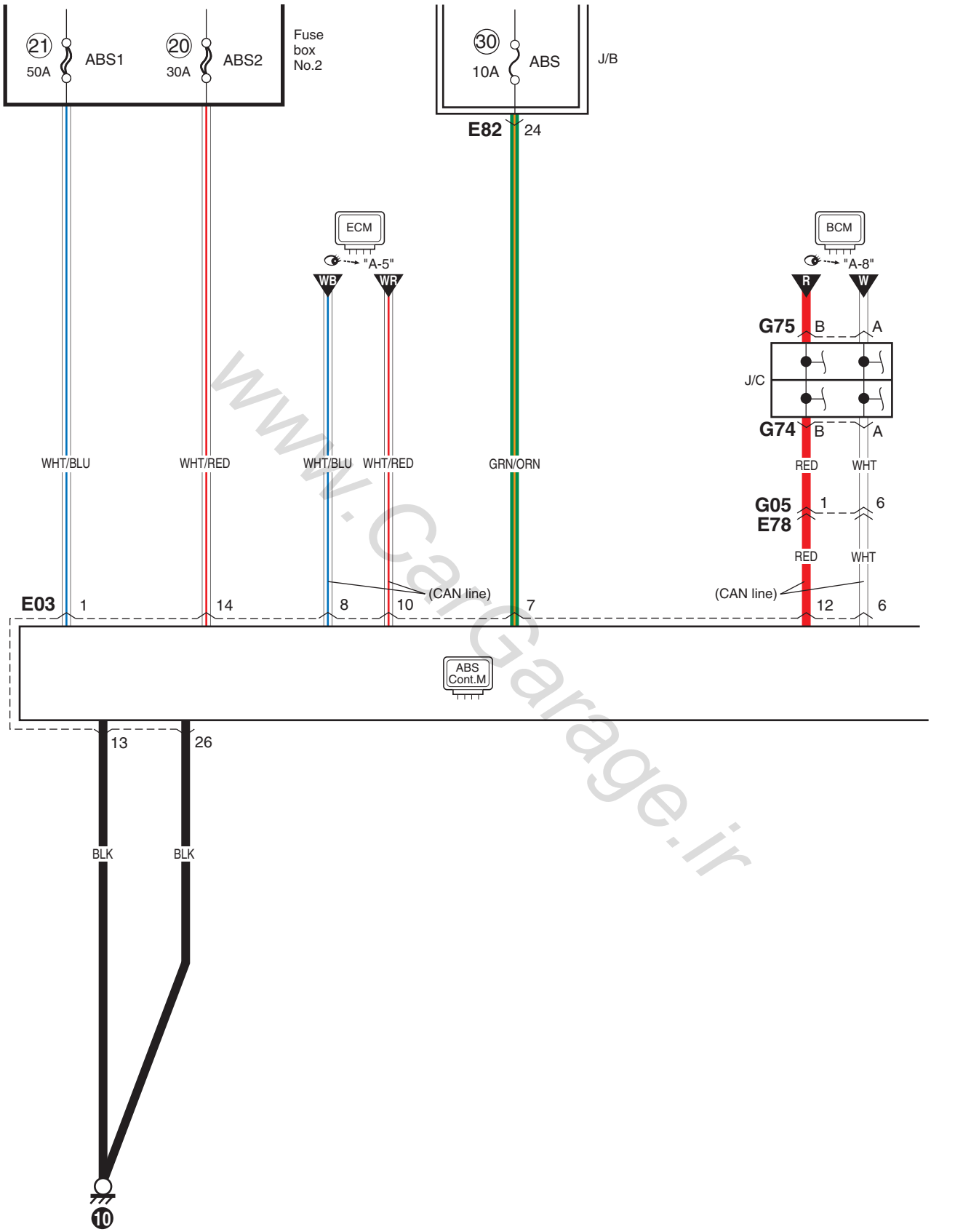
F-2 Anti-Lock Brake System Circuit Diagram

S5JB0A910E029



I5JB0A910987-10

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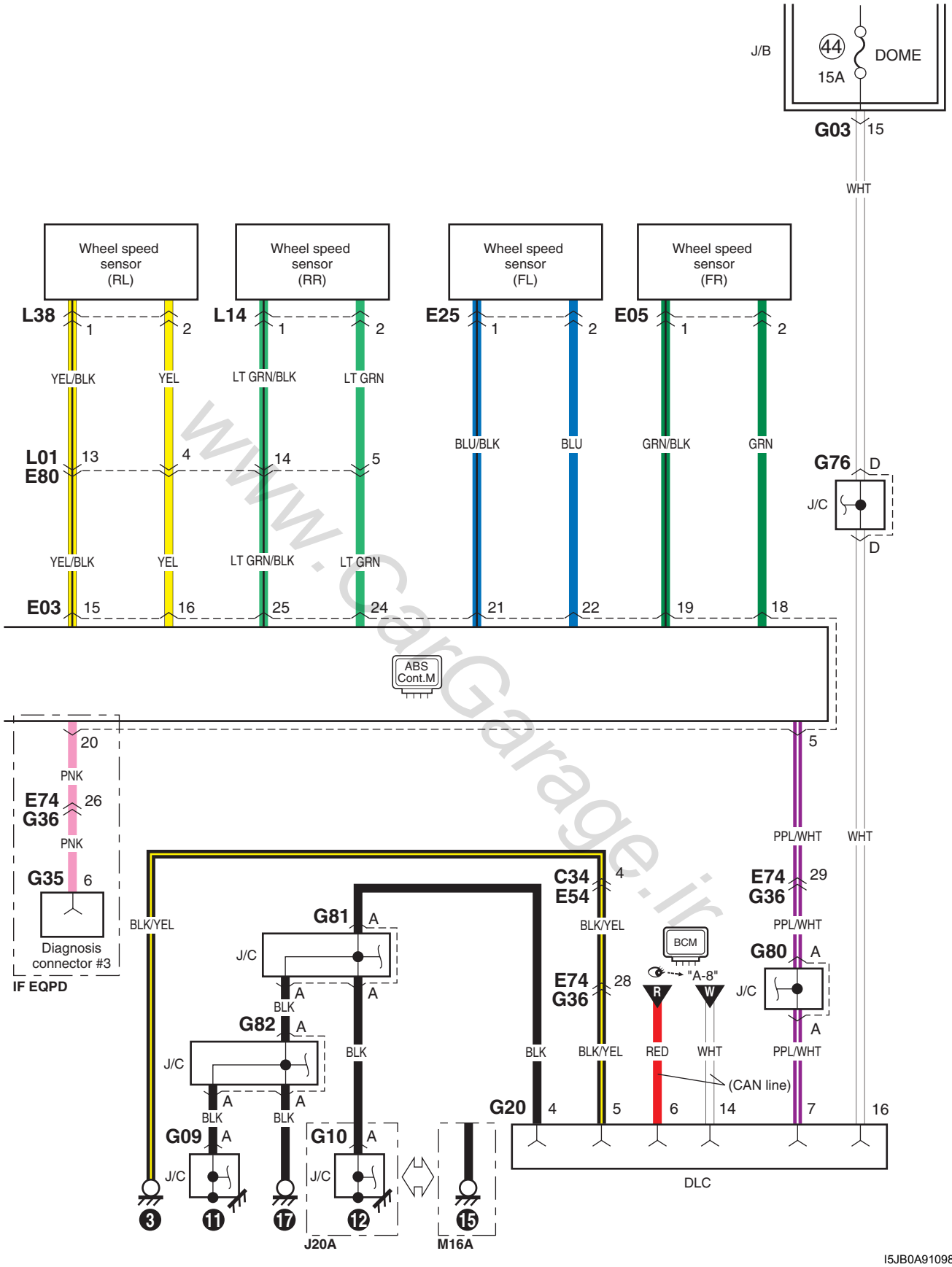

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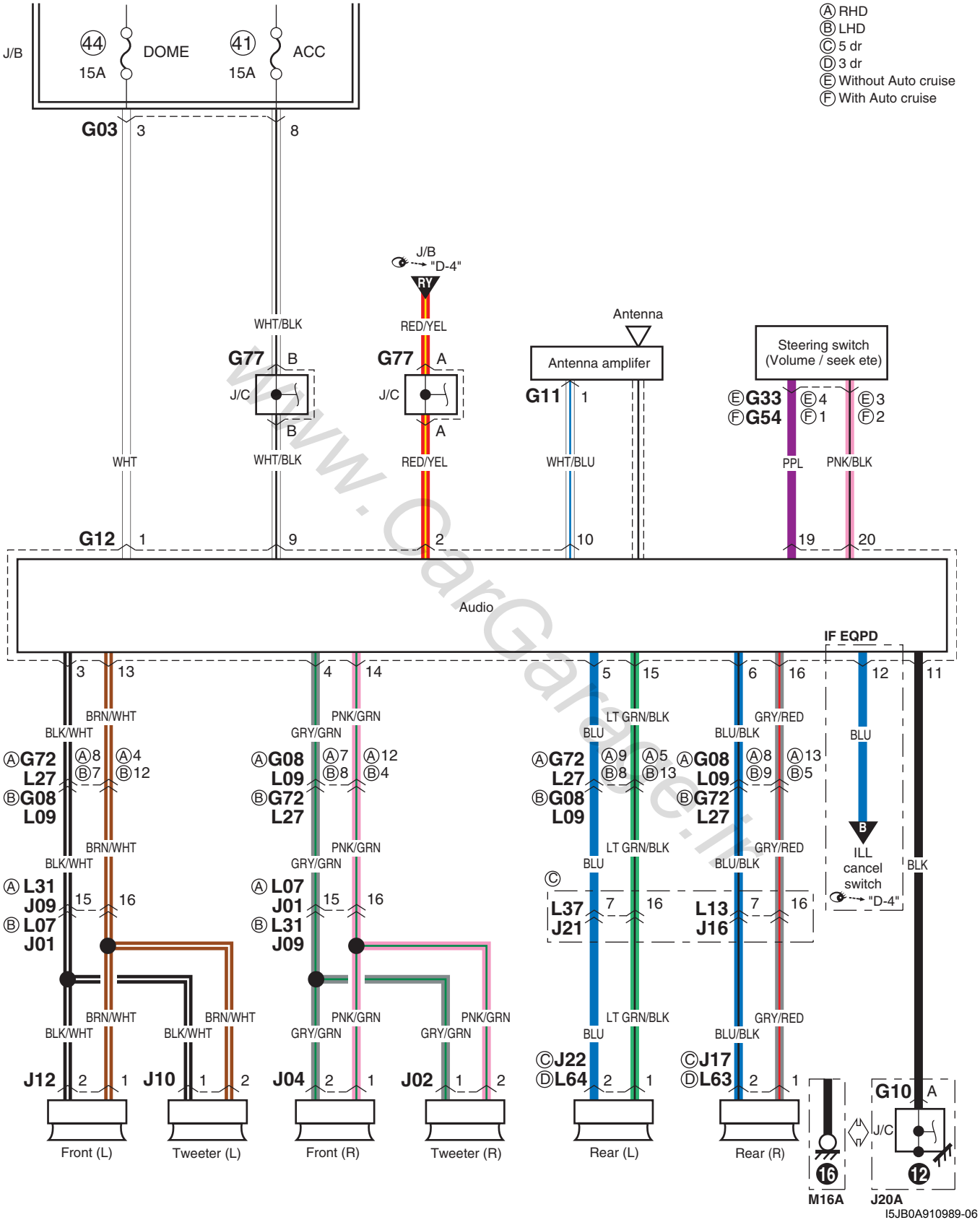
G-1 Audio System Circuit Diagram

S5JB0A910E031



I5JB0A910989-06

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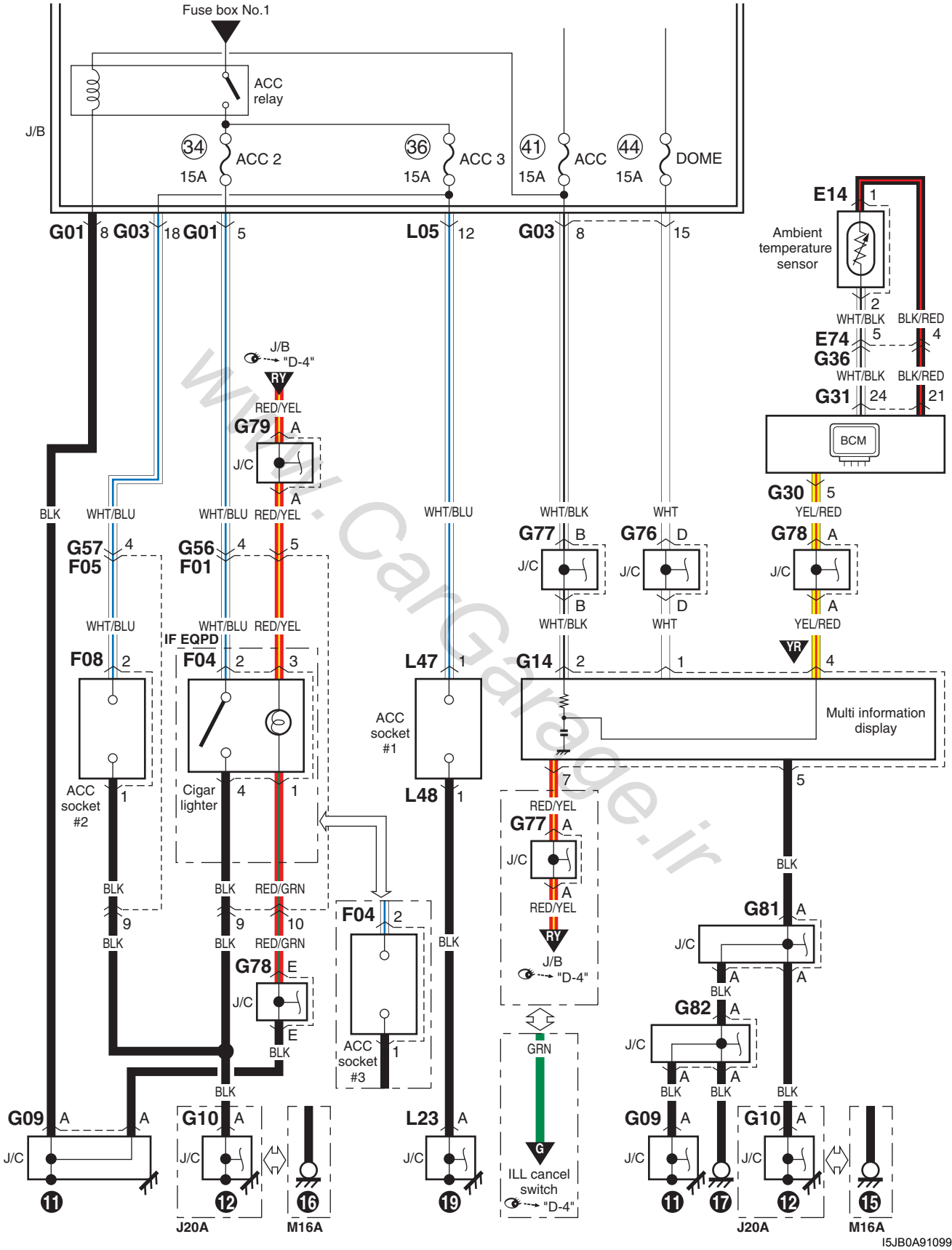
G-2 Multi Information Display / Accessory Socket System Circuit Diagram

S5JB0A910E032



I5JB0A910990-07

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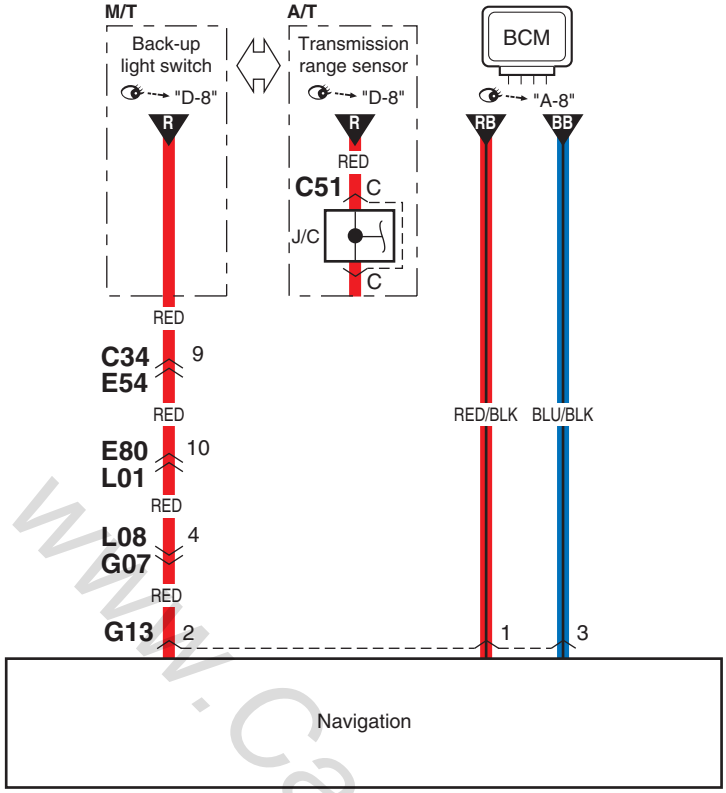
G-4 Navigation System Circuit Diagram

S5JB0A910E039



I5JB0A910991-03

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List of Connectors

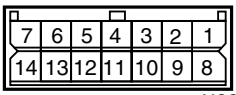
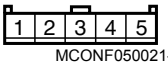
List of Connectors

S5JB0A910F009

Refer to “B Connector: ”.
Refer to “C Connector: ”.
Refer to “E Connector: ”.
Refer to “F Connector: ”.
Refer to “G Connector: ”.
Refer to “J Connector: ”.
Refer to “K Connector: ”.
Refer to “L Connector: ”.
Refer to “O Connector: ”.
Refer to “Q Connector: ”.
Refer to “R Connector: ”.

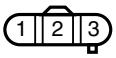
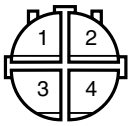
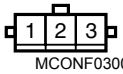
B Connector

S5JB0A910F010

B01 (TO E17) MCONM010033-01 J20A	B02 MCONF010076-01 J20A	B03 (TO G16)  MCONM140005-02	B04  MCONF050021-01	B05 MCONF050021-01
B06 MCONF050021-01				

C Connector

S5JB0A910F001

C01 MCONF010070-01	C02 MCONF010083-01	C03 MCONF010084-01	C04 MCONF020065-01	C05 MCONF020065-01	C06 MCONF020065-01
C07 MCONF020065-01	C08  MCONF030053-01	C09 MCONF020042-01	C10 MCONF060018-01	C11 MCONF060068-01	C12 MCONF030030-01
C13 MCONF050025-01	C14 MCONF020042-01	C15  MCONF040008-01	C17 MCONF010076-01 M16A	C18 MCONF010030-01	C19 MCONM020016-01 M16A
C20 MCONF030053-01 M16A	C20  MCONF030038-01 J20A	C21 MCONF040048-01	C22 MCONF010077-01	C23 MCONF010060-01	C24 MCONF010078-01

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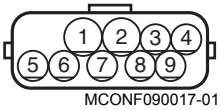
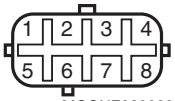
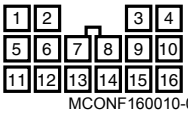
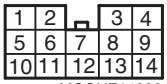
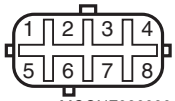
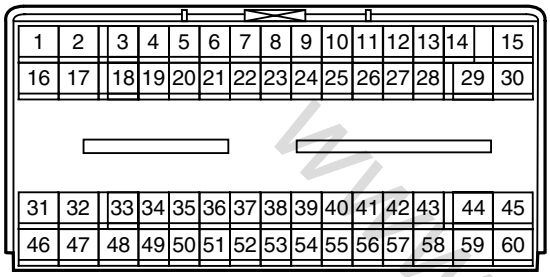
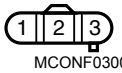
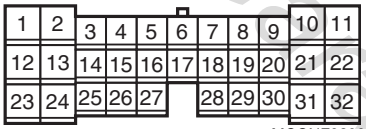
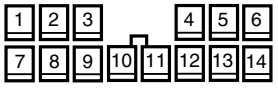
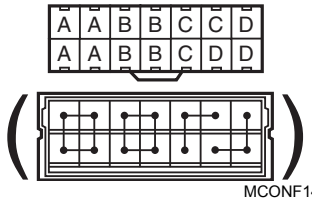
C25 MCONF020150-01 A/T	C26 MCONF010054-01	C27 MCONF020150-01 A/T	C28  MCONF090017-01 A/T	C29  MCONF080039-01 A/T	C30 MCONF020042-01
C31 MCONF010078-01	C32 MCONF010085-01	C33 MCONF010001-01	C34 (TO E54)  MCONF160010-01	C35 (TO E55)  MCONF140001-01	C36  MCONF080039-01
C37  MCONF600003-01			C38 MCONF030056-01 J20A	C39 MCONF010081-01 J20A	
C40 MCONF030055-01 M16A	C40 MCONF030053-01 J20A	C41 MCONF030055-01 M16A	C41 MCONF030053-01 J20A	C42  MCONF030053-01 J20A	C43 MCONF030053-01 J20A
C46 MCONF020063-01 J20A	C47 MCONF020066-01	C48 (TO E87)  MCONF320006-01 J20A		C49 (TO E88)  MCONF140008-01 J20A	
C50 (TO E89) MCONF040112-01 J20A	C51  MCONF140021-01 J20A	C52 MCONF020231-01 J20A	C53 MCONF020231-01 J20A	C54 MCONF060061-01 J20A	
C55 MCONN000002-01	C56 MCONN000002-01				

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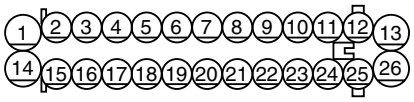
E Connector

S5JB0A910F002

E01 MCONF050027-01	E02 MCONF020115-01	E03  MCONF260011-01			E04 MCONF030062-01
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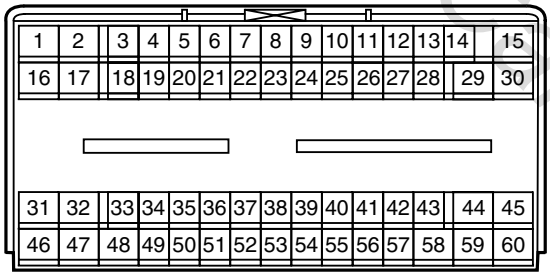
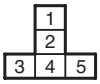
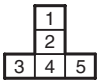
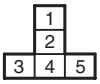
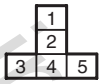
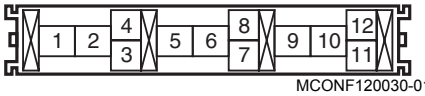
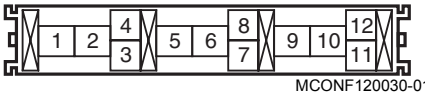
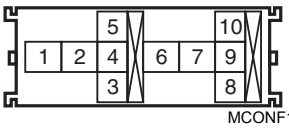
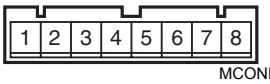
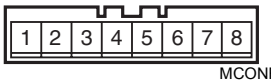
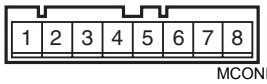
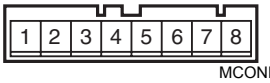
E11 MCONF020013-01	E12 MCONF020198-01	E13 MCONF020022-01	E14 MCONF020200-01	E15 MCONF010079-01	E16 MCONF010079-01
E17 (TO B01) MCONF010076-01 J20A	E18 MCONF020198-01	E19 MCONF020196-01	E20 MCONF020110-01	E21 MCONF030101-01	E22 MCONF020013-01
E23  MCONF600003-01			E24 MCONF020022-01	E25 MCONM020027-01	E26 MCONF020183-01
E27 MCONF020183-01	E28  MCONF050015-01	E29  MCONF050015-01	E30  MCONF050015-01	E31  MCONF050015-01	
E32  MCONF120030-01		E33  MCONF120030-01		E34  MCONF100032-01 M16A	
E35  MCONF080019-01		E36  MCONF080036-01		E37  MCONF080037-01 J20A	
E38  MCONF080038-01 J20A		E40 MCONF010081-01	E41 MCONF010081-01 J20A	E42 MCONF010086-01	E43 MCONF020044-01

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E44

MCONF020237-01

E45

MCONF030111-01

E46

MCONF020230-01

E47

MCONF020044-01

E48

MCONF020237-01

E49

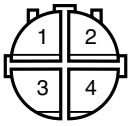
MCONF030111-01

E50

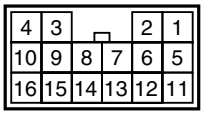
MCONF020230-01

E51

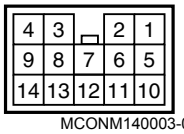
MCONF020231-01

E52 (TO E85)


MCONF040008-01

E54 (TO C34)


MCONM160004-01

E55 (TO C35)


MCONM140003-01

E56

MCONF020201-01

E57

MCONF020202-01

E58

MCONF020148-01

E59

MCONN000002-01

E60

MCONN000002-01

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MCONN000002-01

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E63

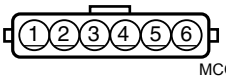
MCONN000002-01

E64

MCONN000002-01

E67

MCONF040045-01

E68


MCONF060068-01

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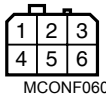


MCONF060044-01
IF EQPD

E70

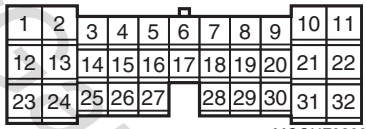
MCONF020232-01

E71

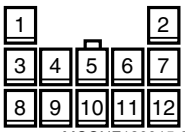
MCONF020158-01

E72

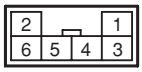
MCONF020111-01

E74 (TO G36)


MCONF320006-01

E75 (TO G37)


MCONF120015-01

E76 (TO G04)


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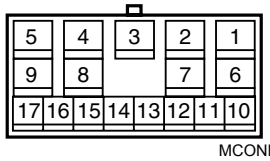
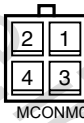
E77 (TO G06)

MCONM040022-01

E78 (TO G05)


MCONM170001-01

E79 (TO L03)


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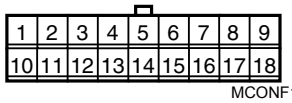
IF EQPD

E80 (TO L01)


MCONF180010-01

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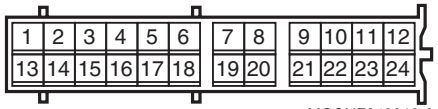
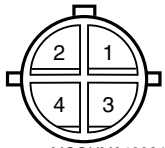


MCONF240013-01

E83

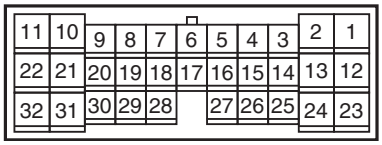
MCONF010081-01

E85 (TO E52)


MCONM040021-01

E86

MCONF030110-01

E87 (TO C48)


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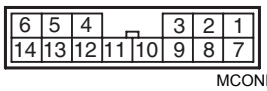
E88 (TO C49)


MCONM140002-01

E89 (TO C50)

MCONM040011-01

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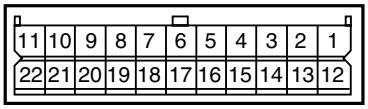
E90 (TO G71)



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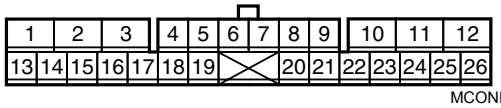

MCONF260010-01

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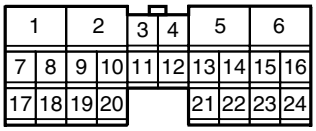
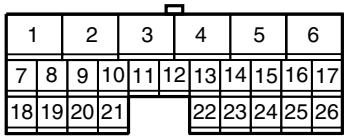


MCONF240011-01

A/T

E93



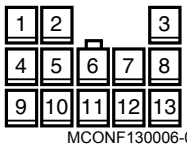
MCONF260014-01

A/T

F Connector

S5JB0A910F011

F01 (TO G56)



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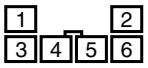
MCONF060046-01

F03



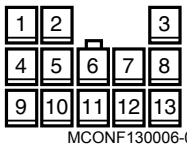
MCONF060046-01

LHD A/T

F04

MCONF040095-01

F05 (TO G57)



MCONF130006-01

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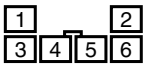

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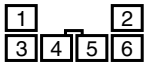
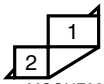


MCONF060046-01

RHD A/T

F08

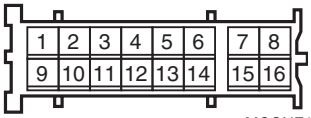


MCONF020116-01

G Connector

S5JB0A910F003

G01



MCONF160037-01

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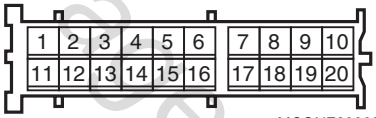
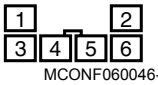
MCONF040046-01

G03



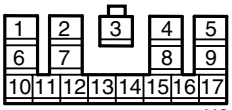
MCONF200024-01

G04 (TO E76)



MCONF060046-01

G05 (TO E78)

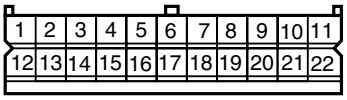


MCONF170005-01

G06 (TO E77)

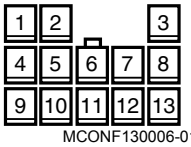
MCONF040093-01

G07 (TO L08)



MCONF220010-01

G08 (TO L09)



MCONF130006-01

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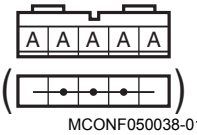

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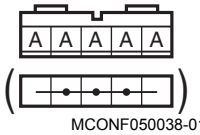

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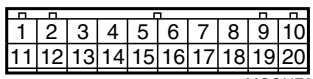

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MCONF050021-01

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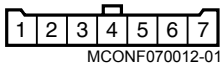

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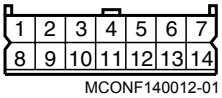
MCONF020008-01

G16 (TO B03)



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MCONF040046-01

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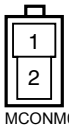

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MCONF020232-01

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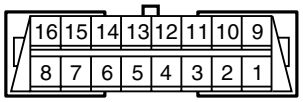
www.CarGarage.ir

G20



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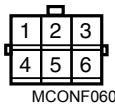

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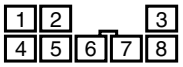

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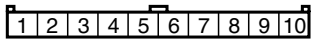

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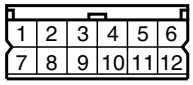

MCONF120022-01

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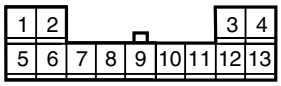

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MCONF020212-01

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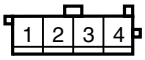

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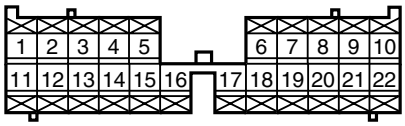

MCONF220006-01

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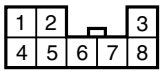

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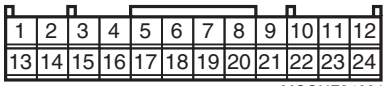

MCONF240014-01

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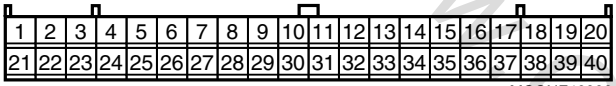

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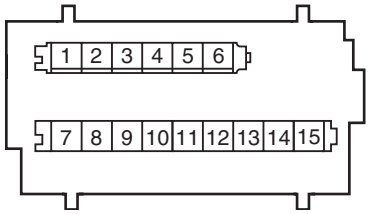

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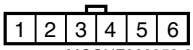


MCONF060053-01

G34

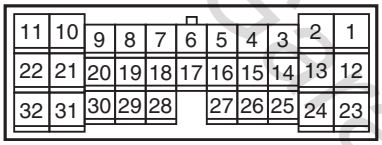
MCONF020084-01

G35

MCONF060044-01

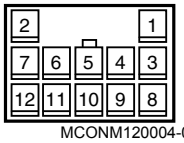
IF EQPD

G36 (TO E74)



MCONM320001-01

G37 (TO E75)



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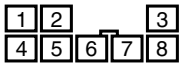
G38

MCONF010087-01

G39



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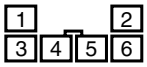

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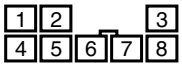

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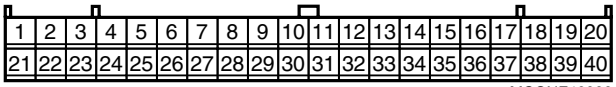
G43

MCONF020151-01

G44



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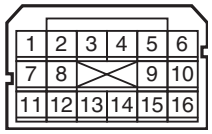
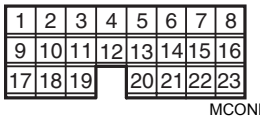


MCONF160038-01

IF EQPD

G47



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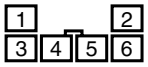
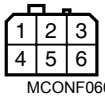


MCONF060046-01

G49

MCONF020084-01

G50



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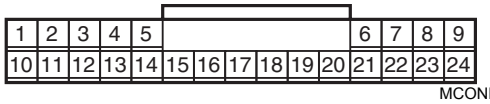

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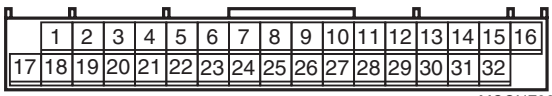
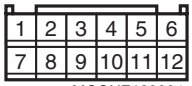


MCONF320007-01

G53

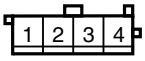
MCONF020151-01

G54



MCONF120034-01

G55 (TO L29)



MCONF040099-01

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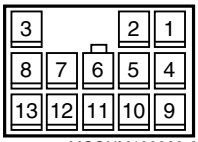
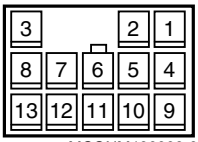
G56 (TO F01)



MCONM130003-01

G57 (TO F05)

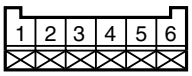


MCONM130003-01

G58

MCONF020140-01

G59



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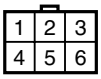
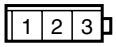


MCONF060003-01

G63

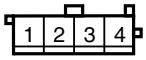
MCONF010010-01

G64



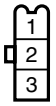
MCONF030078-01

G67 (TO Q01)



MCONF040099-01

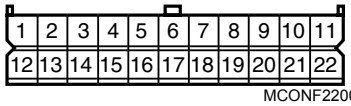
G69



MCONF030087-01

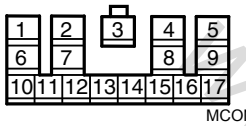
IF EQPD

G71 (TO E90)



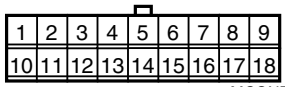
MCONF220009-01

G72 (TO L27)



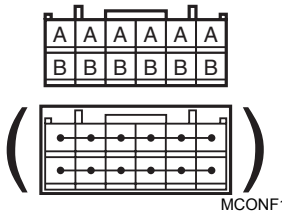
MCONF170005-01

G73 (TO L28)



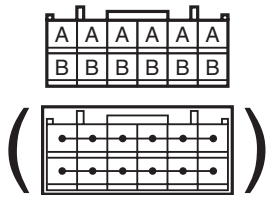
MCONF180010-01

G74



MCONF120031-01

G75



MCONF120031-01

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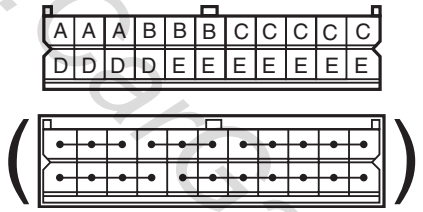

MCONF220013-01

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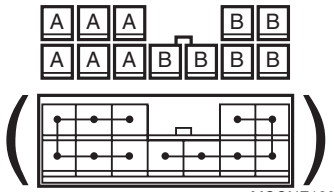

MCONF120032-01

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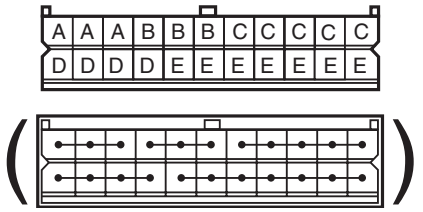

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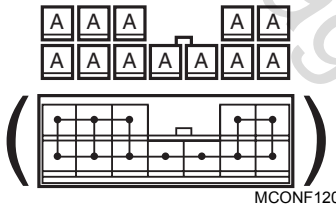

MCONF120033-01

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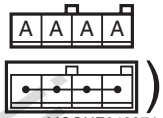

MCONF040071-01

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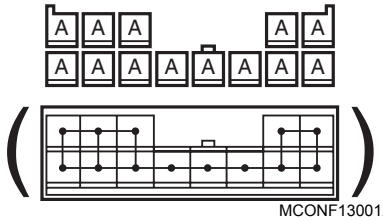

MCONF130012-01

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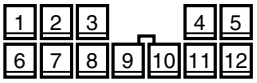

MCONF120016-01

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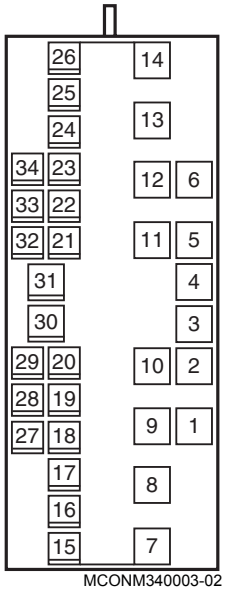
J Connector

S5JB0A910F004

J01 (TO L07)

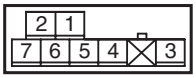


MCONM340003-02

J02

MCONF020159-01

J03



MCONM070005-01

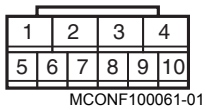
J04

MCONF020008-01

J05

MCONF020236-01

J06



MCONF100061-01

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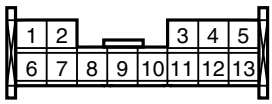

MCONF130011-01

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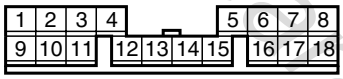
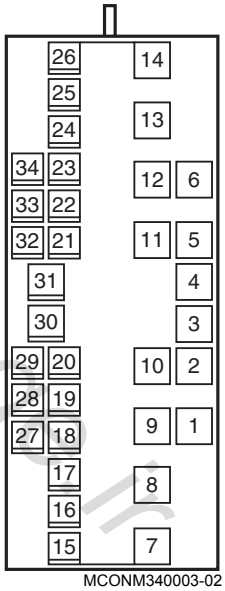


MCONF180006-01

J09 (TO L31)



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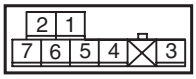
MCONF020159-01

J11

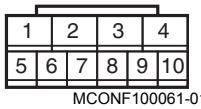


MCONM070005-01

J12

MCONF020008-01

J13

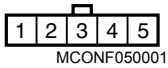


MCONF100061-01

J14

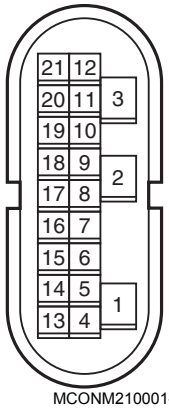
MCONF020236-01

J15



MCONF050001-01

J16 (TO L13)



MCONM210001-01

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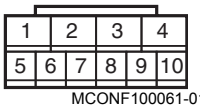
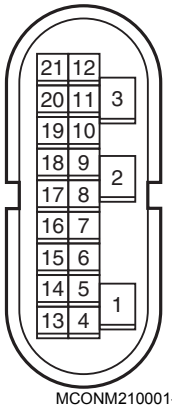
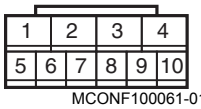
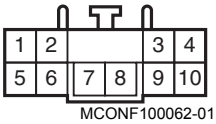
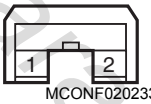
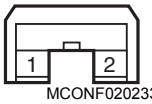
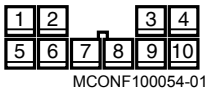
J17	J18	J19	J20	J21 (TO L37)	J22
MCONF020008-01	MCONF020236-01	MCONF050021-01	 MCONF100061-01	 MCONM210001-01	MCONF020008-01
J23	J24	J25	J26	J27	J28
MCONF020236-01	MCONF050001-01	 MCONF100061-01	MCONM020018-01	MCONM020016-01	MCONM020018-01
J29	J31	J32			
MCONM020016-01	MCONM020049-01	MCONM020049-01			

K Connector

S5JB0A910F005

K01	K02	K03	K04	K05	K06
 MCONF100062-01	MCONF030102-01	MCONF030102-01	 MCONF020233-01	 MCONF020233-01	 MCONF100054-01
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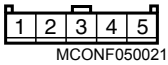 MCONF050021-01					

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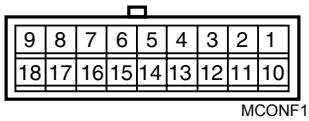
L Connector

S5JB0A910F006

L01 (TO E80)



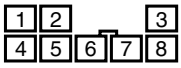
MCONF180009-01

L03 (TO E79)

MCONF040095-01

IF EQPD

L04

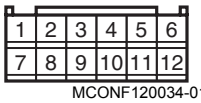


MCONF080014-01

L05

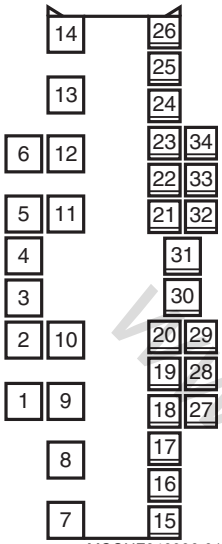
MCONF130013-01

L06



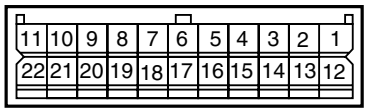
MCONF120034-01

L07 (TO J01)



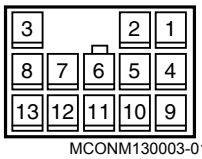
MCONF340006-01

L08 (TO G07)



MCONM220004-01

L09 (TO G08)



MCONM130003-01

L10

MCONF010060-01

L11

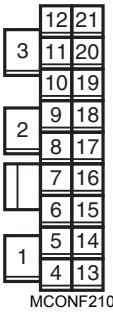
MCONF020022-01

IF EQPD

L12

MCONF020209-01

L13 (TO J16)

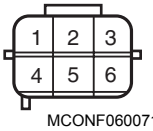


MCONF210001-01

L14

MCONM020027-01

L15 (TO R01)



MCONF060071-01

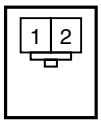
L16

MCONF010060-01

L17 (TO L66)

MCONM030009-01

L18



MCONF020207-01

IF EQPD

L19 (TO L68)

MCONF020151-01

3 dr

L19

MCONF020211-01

5 dr

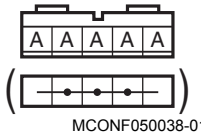
L20

MCONF060044-01

L21

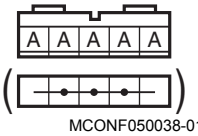
MCONF020232-01

L22



MCONF050038-01

L23



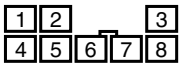
MCONF050038-01

L25

MCONF020212-01

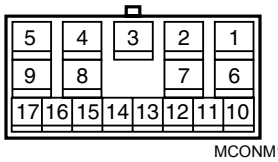
IF EQPD

L26



MCONF080014-01

L27 (TO G72)



MCONM170001-01

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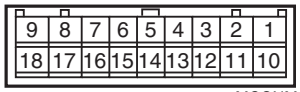
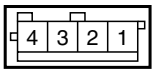
L28 (TO G73)



MCONM180002-01

L29 (TO G55)



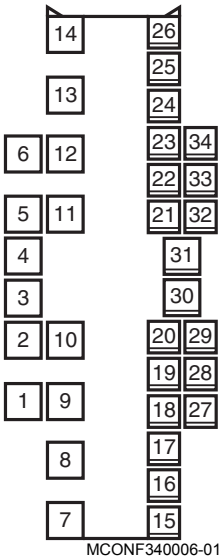
MCONM040015-01

L30

MCONF020212-01

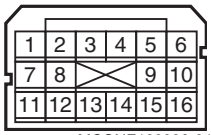
IF EQPD

L31 (TO J09)



MCONF340006-01

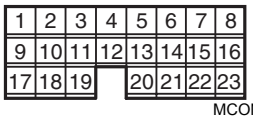
L32



MCONF160038-01

IF EQPD

L33



MCONF230001-01

IF EQPD

L34

MCONF010060-01

L35

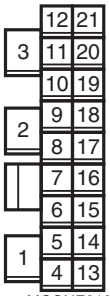
MCONF020022-01

IF EQPD

L36

MCONF020209-01

L37 (TO J27)



MCONF210001-01

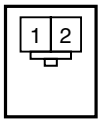
L38

MCONM020027-01

L40

MCONF010060-01

L41



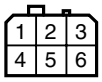
MCONF020207-01

IF EQPD

L42 (TO O01)

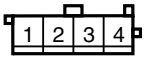
MCONM160005-01

L43



MCONF060044-01

L44



MCONF040099-01

L45

MCONF020228-01

5 dr

L47

MCONF010001-01

L48

MCONF010030-01

L49

MCONF020228-01

5 dr

L52

MCONF020013-01

L53

MCONF020013-01

L54

MCONM010017-01

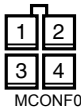
L56

MCONF020151-01

L57

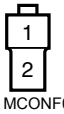
MCONF040095-01

L59



MCONF040095-01

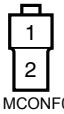
L63



MCONF020008-01

3 dr

L64



MCONF020008-01

3 dr

L66 (TO L17)

MCONF030069-01

L67

MCONF030110-01

L68 (TO L19)

MCONM020005-01

3 dr

L69

MCONF020211-01

3 dr

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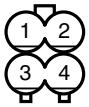
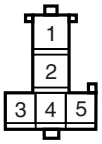
O Connector

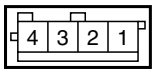
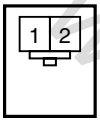
S5JB0A910F007

O01 (TO L42)	O02	O03	O04	O05	O06
MCONF160010-01	MCONM010034-01	MCONM040022-01	 MCONF040069-01	 MCONF050037-02	MCONM010034-01

O07	O08	O09
MCONF020026-01	MCONM020018-01	MCONM020016-01

Q Connector

S5JB0A910F012

Q01 (TO G67)	Q02
 MCONM040015-01	 MCONF020207-01

R Connector

S5JB0A910F008

R01 (TO L15)	R02	R03
MCONM060034-01	MCONF040048-01	MCONF020079-01

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Lighting Systems

Precautions

Precautions for Discharge Headlight Service (If Equipped)

S5JB0A9200001

⚠ WARNING

- **Do not touch igniter or ballast when lighting switch is at "HEAD" position to avoid possible electric shock.**
- **Do not measure voltage or resistance with tester connected to output connector of ballast or igniter to avoid possible electric shock.**
- **Do not perform work where exposed to water including rain or with wet hands to avoid possible electric shock.**
- **Disassembling igniter or ballast is strictly prohibited as it may cause an electric shock.**
- **Before inspecting or repairing discharge headlight or its peripheral parts, make sure that lighting switch is at OFF position and battery is disconnected at negative terminal to avoid possible electrical shock.**
- **Do not set lighting switch to "HEAD" position with connector disconnected or any part removed to avoid possible electric shock.**
- **Do not touch glass surface of headlight bulb. Oil or grease attached on it may not only make bulb service life shorter but also cause bulb to burst when lighting switch is turned on.**
- **Mercury, metal iodide and xenon gas are sealed in discharge headlight bulb. Be sure to dispose of used discharge headlight bulb properly according to applicable rules or regulations.**

Precautions in Diagnosing Troubles (Vehicle Equipped with Auto Leveling Headlight System)

S5JB0A9200002

- Be sure to read "Precautions for Electrical Circuit Service: in Section 00" before inspection and observe what is written there.
- Replacement of height sensor and headlight leveling control module.When height sensor and/or headlight leveling control module is replaced with new one, perform initialization of auto leveling headlight system according to "Initialization of Auto Leveling Headlight System: ".

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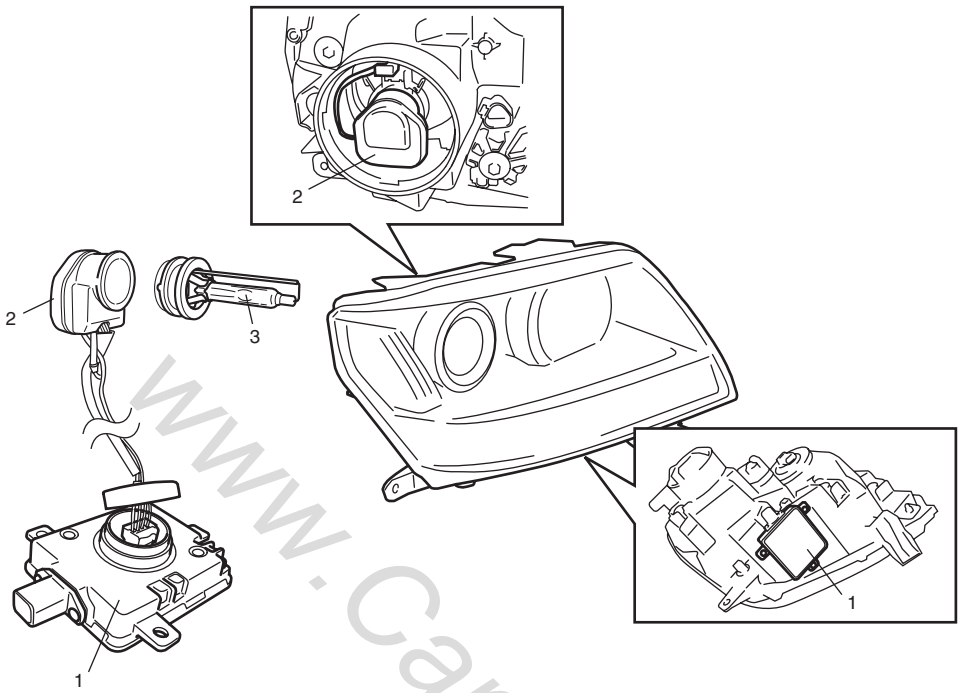
General Description

Discharge Headlight Description (If Equipped)

S5JB0A9201001

Discharge headlight provides more brightness and consumes less electricity as compared with the conventional halogen headlight. It consists of a ballast (1), igniter (2) and discharge headlight bulb (3).



I5JB0A920002-01

Ballast

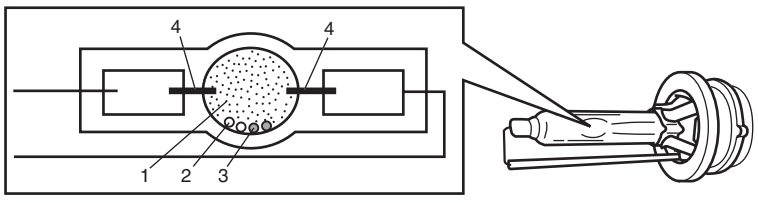
Ballast makes the voltage from the battery rise and converts the current from DC to AC. It also outputs high voltage to the igniter when the headlight is turned on and supplies to discharge headlight bulb with necessary voltage for continuous lighting while it is lit.

Igniter

Igniter generates high voltage needed to turn on the discharge headlight. It is charged with high voltage raised by the ballast and it applies voltage pulse as high as about 20,000V to the tungsten electrode in the discharge headlight bulb.After the discharge headlights light up, the ballast supplies voltage to bulbs.

Discharge headlight bulb

Discharge headlight bulb is used for the low beam. It does not have a filament but xenon gas (1), mercury (2) and metal iodide sealed in it. It lights up when its tungsten electrodes (4) apply high voltage to these contents.



I5JB0A920001-01

Fail-safe Function of Discharge Headlight

As the ballast has a fail-safe function which stops supply of the voltage to the igniter when it detects any of the following condition.

- Ignition switch is set to “HEAD” position while igniter is not connected to discharge headlight bulb
- Discharge headlight does not light up even when lighting switch is set to “HEAD” position.
- Ballast detects a short in the circuit between discharge headlight bulb and ballast when lighting switch is at “HEAD” position.

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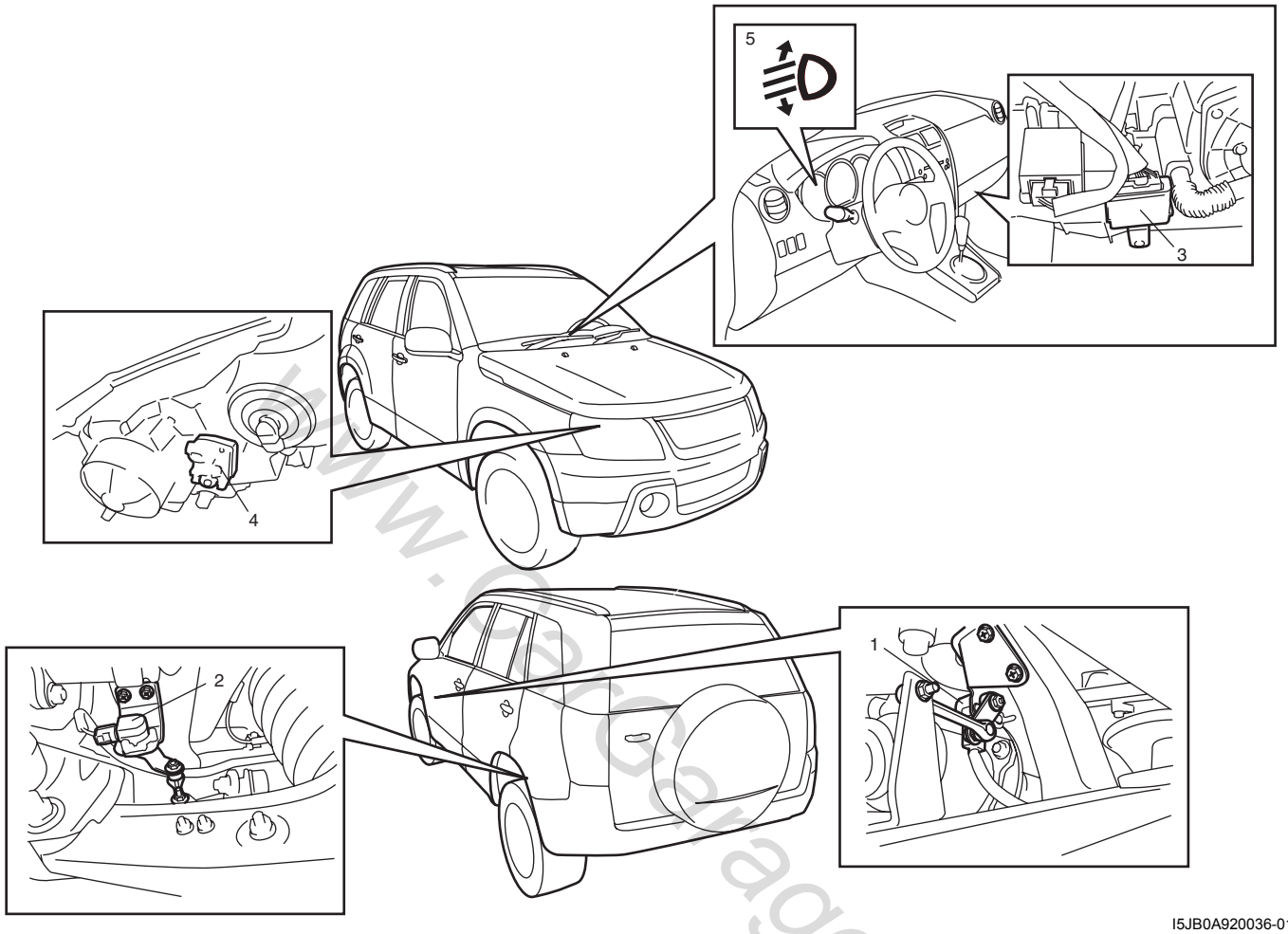
Auto Leveling Headlight System Description (If Equipped)

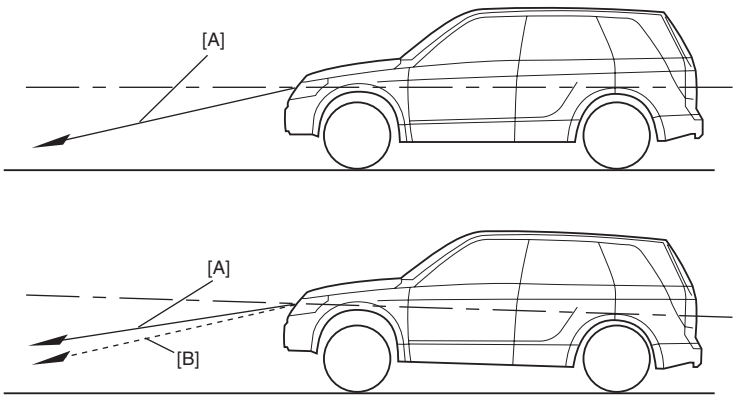
S5JB0A9201002

Auto Leveling Headlight System adjusts the optical axis of the headlight automatically to be suitable for the varied vehicle position while the headlights are lit. It consists of front height sensor (1), rear height sensor (2), headlight leveling control module (3), headlight leveling actuator (4) and headlight leveling warning light (5).



I5JB0A920036-01

With more passenger(s) or luggage in the vehicle, the vehicle position differs from that in such vehicle state with one person and no load in the vehicle and angle of the headlight optical axis varies accordingly. This system automatically adjusts the varied angle to maintain the optical axis properly.



I5JB0A920004-01

[A]:	Optical axis of headlight in standard position
[B]:	Corrected optical axis of headlight

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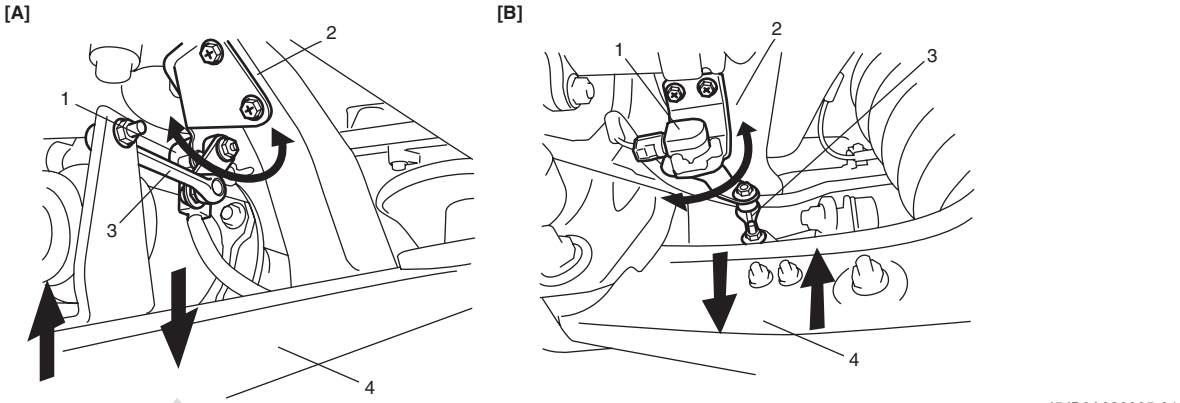
Front and rear height sensors

Height sensor (1) is installed to the front and rear suspension frames respectively and connected to the lower arm (4) with the link (3). Each height sensor converts vertical movement of the lower arm into the resistance value and outputs the detected change in the vehicle position as a voltage signal to the headlight leveling control module.



I5JB0A920005-01

[A]: Front	[B]: Rear

Headlight leveling control module

Headlight leveling control module is installed at the foot of the front passenger seat. It uses the headlight ON signal from the lighting switch, vehicle speed signal from BCM and vehicle position signal from height sensors to calculate the angle of the headlight optical axis to be corrected. Then it adjusts the optical axis angle of headlight based on the calculated angle value by driving the headlight leveling actuator so that proper headlight aiming is obtained. Also, when any abnormality is detected in the system, the headlight leveling control module makes the headlight leveling warning light in the combination meter light up to warn the driver of an abnormality in the system.

Fail-safe function of headlight leveling control module

Headlight leveling control module has a fail-safe function which operates as follows.

Detecting condition	Fail-safe operation	Warning light
Power voltage supplied to headlight leveling control module is higher than 18.5V	Stops headlight leveling actuator operation.	OFF
Power voltage supplied to headlight leveling control module is lower than 9V	Stops headlight leveling actuator operation.	OFF
Vehicle speed is 180km/h or higher	Stops headlight leveling actuator operation.	OFF
Voltage supplied to height sensor is lower than 4.6V	Stops headlight leveling actuator operation.	ON
Signal voltage from height sensor is higher than 4.75V or lower than 0.25V	Stops headlight leveling actuator operation.	ON
Abnormality in headlight leveling control module is detected	Resets microcomputer in headlight leveling control module.	ON
Correction value calculated by headlight leveling control module exceeds operation range of headlight leveling actuator	Drives headlight leveling actuator within its operation range.	OFF

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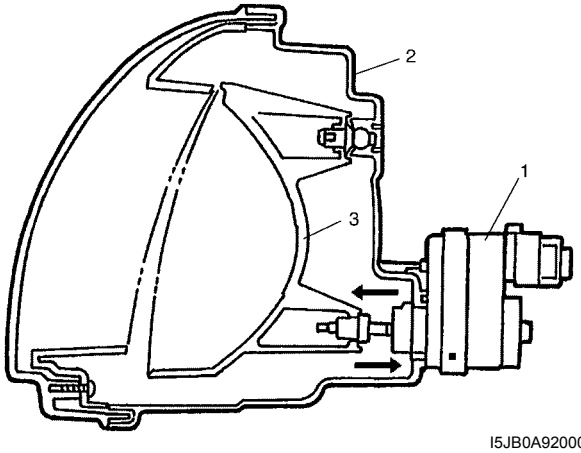
Headlight leveling actuator

Headlight leveling actuator is (1) located in the headlight housing (2). It moves the reflector (3) in the headlight housing according to the drive signal from the headlight leveling control module so as to adjust the optical axis of the headlight to the angle calculated by the headlight leveling control module.

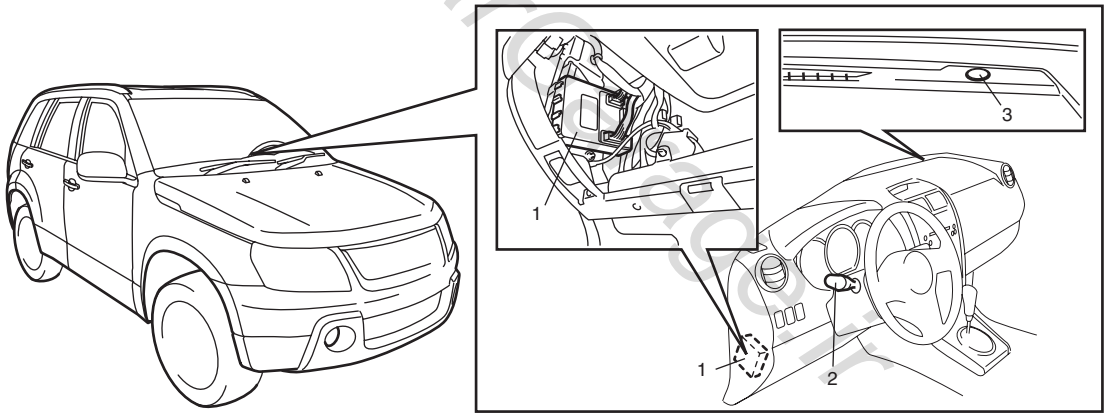


I5JB0A920006-06

Auto-On Headlight System Description (If Equipped)

S5JB0A9201003

The auto-on headlight is controlled by BCM (1) and works as follows.Under such conditions as the ignition switch turned ON, the lighting switch (2) turned to the “AUTO” position and the parking brake released, when illuminance to the auto-on headlight sensor (3) becomes lower than the specified value, the headlights and clearance lights are turned ON by BCM. On the other hand, when illuminance to the auto-on headlight sensor becomes higher than the specified value under the same conditions, the headlights and clearance lights are turned OFF by BCM.



I5JB0A920007-01

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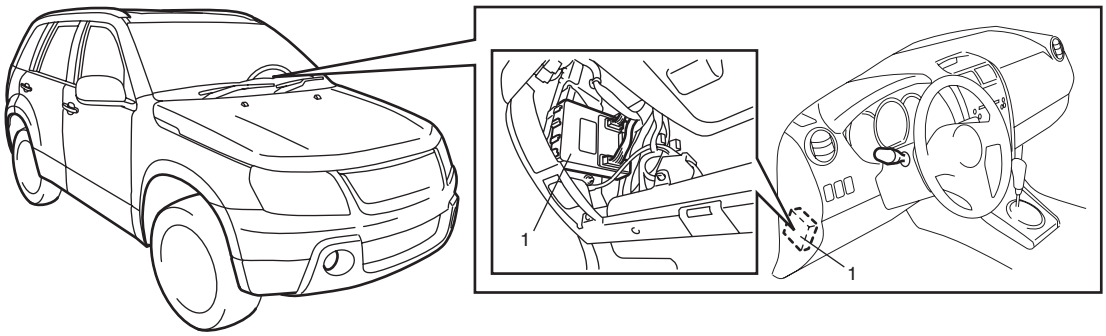
D.R.L. System Description (If Equipped)

S5JB0A9201004

The D.R.L. system is controlled by BCM (1). It lights headlights when following two conditions are met.Conditions for D.R.L. operation:

- The engine is running
- The lighting switch is at “OFF” position

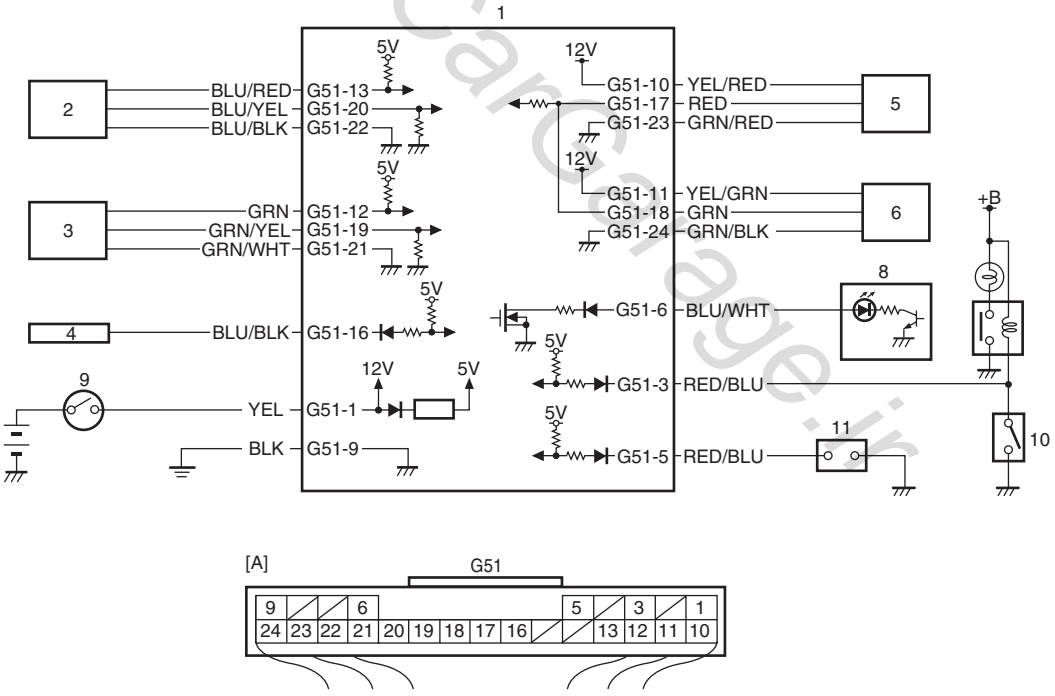


I5JB0A920008-01

Schematic and Routing Diagram

Headlight Auto Leveling System wiring Circuit Diagram

S5JB0A9202001



I5JB0A920011-02

[A]: Headlight leveling control module connector (viewed from harness side)	4. BCM	8. Headlight leveling warning light
1. Headlight leveling control module	5. Right headlight leveling actuator	9. Ignition switch
2. Front height sensor	6. Left headlight leveling actuator	10. Lighting switch
3. Rear height sensor	7. Combination meter	11. Diagnosis connector

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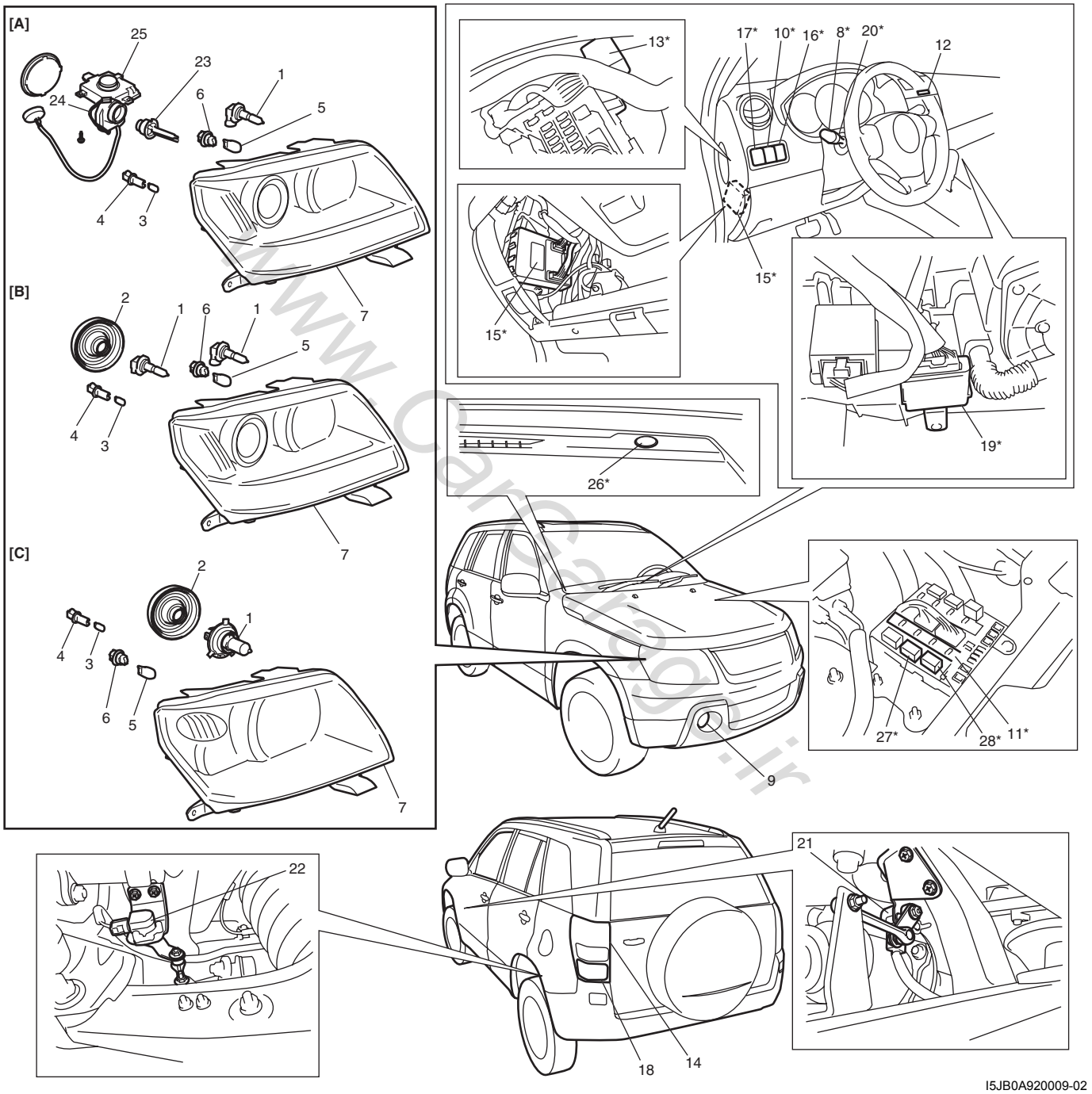
Component Location

Lighting System Components Location

S5JB0A9203001

NOTE

The following figure shows left-hand steering vehicle. For right-hand steering vehicle, parts with (*) are installed at the opposite side.



I5JB0A920009-02

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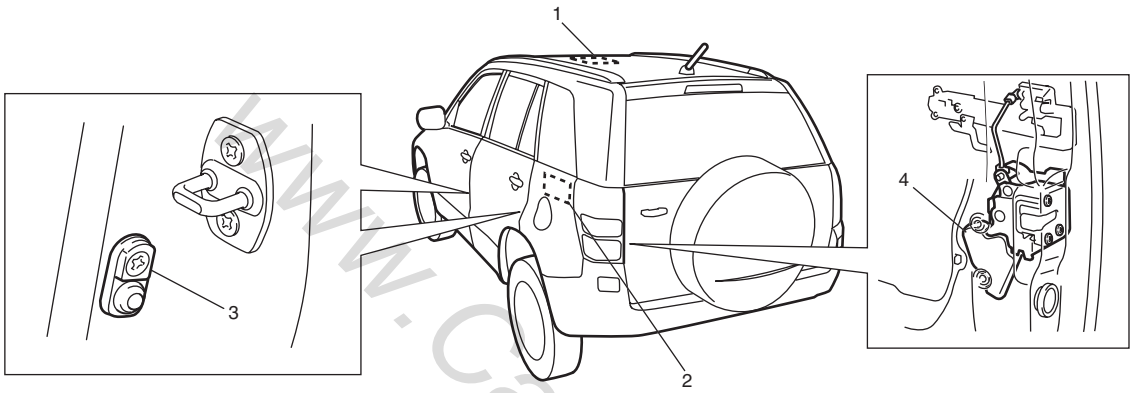
[A]: Discharge headlight	9. Front fog light (if equipped)	20. Rear fog light switch (if equipped)
[B]: Halogen headlight of 5door model	10. Front fog light switch (if equipped)	21. Front height sensor
[C]: Halogen headlight of 3door model	11. Front fog light relay (if equipped)	22. Rear height sensor
1. Headlight bulb	12. Hazard warning switch	23. Discharge head light bulb
2. Socket cover	13. Turn signal / hazard warning relay	24. Igniter
3. Clearance light bulb	14. Rear combination light	25. Ballast
4. Clearance light bulb socket	15. BCM	26. Auto-on headlight sensor
5. Turn signal light bulb	16. Illumination cancel switch (if equipped)	27. Headlight high beam relay
6. Turn signal light bulb socket	17. Headlight leveling switch (if equipped)	28. Headlight low beam relay
7. Headlight unit	18. Rear fog light (if equipped)	[A]: Junction block assembly viewed from relay side
8. Lighting switch	19. Headlight auto leveling control module (if equipped)	

Interior Light System Location

S5JB0A9203002



I5JB0A920010-01

1. Dome light	3. Door switches (both sides)
2. Luggage compartment light (if equipped)	4. Rear end door switch (included in lock assembly)

Diagnostic Information and Procedures

Self-Diagnosis Function for Auto Leveling Headlight System

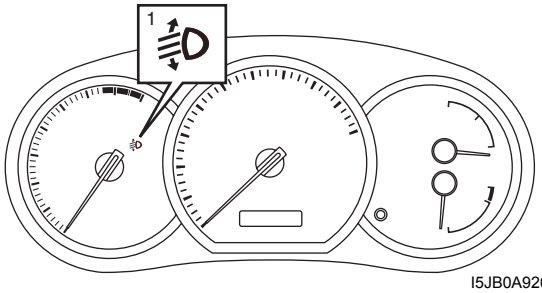
S5JB0A9204015

The headlight leveling control module has self-diagnosis function to monitor the system components and circuits while the headlight auto leveling system is at work. When the headlight leveling control module detects an abnormality in the system, the headlight leveling warning light in the combination meter turns ON. However, the headlight leveling control module does not have a function to indicate location of such abnormality.

Headlight Leveling Warning Light Check

S5JB0A9204016

1) Turn ignition switch to ON position.
2) Check that headlight leveling warning light (1) lights for about 2 seconds and then goes OFF. If the headlight leveling warning light lights up again 10 seconds after it turned off, go to “Headlight Auto Leveling System Symptom Diagnosis (If Equipped): ”. If headlight leveling warning light flashes, go to “Initialization of Auto Leveling Headlight System: ”.



I5JB0A920012-01

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Headlight Symptom Diagnosis (Vehicle Equipped With Discharge Headlight)

S5JB0A9204001

Condition	Possible cause	Correction / Reference Item
Only one low beam does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulb faulty	*Replace bulb.*
	Igniter faulty	*Replace igniter.*
	Ballast faulty	*Replace ballast.*
	Wiring or ground faulty	*Repair circuit.*
Low beam does not light up	Circuit fuses blown	*Replace fuses and check for short circuit.*
	Headlight low beam relay faulty	*Replace relay.*
	Lighting or dimmer switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Bulbs faulty	*Replace bulbs.*
	Igniters faulty	*Replace igniters.*
	Ballasts faulty	*Replace ballasts.*
	Wiring or ground faulty	*Repair circuit.*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*
Only one high beam does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulb blown	*Replace bulb.*
	Wiring or ground faulty	*Repair circuit.*
High beam does not light up	Circuit fuses blown	*Replace fuses and check for short circuit.*
	Headlight high beam relay faulty	*Replace relay.*
	Lighting or dimmer switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Bulbs blown	*Replace bulbs.*
	Wiring or ground faulty	*Repair circuit.*

Headlight Symptom diagnosis (Vehicle Not Equipped With Discharge Headlight)

S5JB0A9204017

Condition	Possible cause	Correction / Reference Item
Only one low beam does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulb blown	*Replace bulb.*
	Wiring or ground faulty	*Repair circuit.*
Low beam does not light up	Circuit fuse blown	*Replace fuses and check for short circuit.*
	Headlight low beam relay faulty	*Replace relay.*
	Lighting or dimmer switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Bulbs blown	*Replace bulbs.*
	Wiring or ground faulty	*Repair circuit.*
	BCM faulty (with DRL vehicle or auto-on headlight vehicle)	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*
Only one high beam does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulb blown	*Replace bulb.*
	Wiring or ground faulty	*Repair circuit.*
High beam does not light up	Circuit fuse blown	*Replace fuses and check for short circuit.*
	Headlight high beam relay faulty	*Replace relay.*
	Lighting or dimmer switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Bulbs blown	*Replace bulbs.*
	Wiring or ground faulty	*Repair circuit.*

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Auto-On Headlight System Symptom Diagnosis (If Equipped)

S5JB0A9204018

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Headlights are not turned ON or OFF automatically even after darkened or lightened	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Parking brake switch faulty	*Check parking brake switch referring to "Parking Brake Switch Inspection: in Section 9C".*
	Lighting or dimmer switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Auto-on headlight sensor faulty	*Check auto-on headlight sensor referring to "Auto-On Headlight Sensor Inspection (If Equipped): ".*
	Wiring or ground faulty	*Repair circuit.*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*

DRL System Symptom Diagnosis (If Equipped)

S5JB0A9204009

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Headlight does not light when lighting switch is in OFF position and engine is running	Lighting switch faulty	*Check lighting switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*
	Wiring or grounding faulty	*Repair circuit.*
Headlight lights even if engine stop and lighting switch is OFF position	Lighting switch faulty	*Check system referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*

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Headlight Auto Leveling System Symptom Diagnosis (If Equipped)

S5JB0A9204019

Condition	Possible cause	Correction / Reference Item
Headlight leveling Warning Light comes on steady	Height sensor faulty	*Check height sensor referring to "Height Sensor and Its Circuit Inspection (If Equipped): ".*
	Wiring or ground faulty	*Repair circuit.*
	Headlight leveling control module faulty	*Check headlight leveling control module for function referring to "Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System): ".*
Optical axes of both headlights do not change	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Supply voltage too low or too high	*Check charging system referring to "Generator Test (Undercharged Battery Check): in Section 1J" or "Generator Test (Overcharged Battery Check): in Section 1J".*
	Wiring or ground faulty	*Repair circuit.*
	Headlight leveling control module faulty	*Check headlight leveling control module for function referring to "Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System): ".*
Optical axis of only one headlight does not change	Headlight levering actuator faulty	*Check actuator referring to "Headlight Leveling Actuator Inspection (If Equipped): ".*
	Headlight housing deformed	*Check actuator referring to "Headlight Leveling Actuator Inspection (If Equipped): ".*
	Wiring or ground faulty	*Repair circuit.*

Headlight Manual Leveling System Symptom Diagnosis (If Equipped)

S5JB0A9204010

Condition	Possible cause	Correction / Reference Item
Optical axes of both headlights do not change	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Headlight manual leveling switch faulty	*Check headlight manual leveling switch referring to "Headlight Manual Leveling Switch (If Equipped) Inspection: ".*
	Supply voltage too low	*Check charging system referring to "Generator Test (Undercharged Battery Check): in Section 1J".*
	Wiring or grounding faulty	*Repair circuit.*
Optical axis of only one headlight does not change	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Headlight leveling actuator faulty	*Check actuator referring to "Headlight Leveling Actuator Inspection (If Equipped): ".*
	Headlight housing deformed	*Replace headlight housing.*
	Wiring or grounding faulty	*Repair circuit.*

Turn Signal and Hazard Warning Light Symptom Diagnosis

S5JB0A9204002

Condition	Possible cause	Correction / Reference Item
Flash rate high or one side only flashes	Bulb blown on "flash rate high"-side	*Replace bulb.*
	Incorrect bulb	*Replace bulb.*
	Turn signal / hazard warning relay faulty	*Check turn signal / hazard warning relay referring to "Turn Signal and Hazard Warning Relay Inspection: ".*
	Open circuit or high resistance existing either; between turn signal switch and non lighting bulb, or between hazard warning switch and non lighting bulb	*Repair circuit.*
	Wiring or grounding faulty	*Repair circuit.*

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Condition	Possible cause	Correction / Reference Item
No flashing ***NOTE*** • ***Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool".*** • ***Check each part in the order from the top of the following list.***	Circuit fuse(s) blown	*Replace fuse(s) and check for short circuit.*
	Turn signal / hazard warning relay faulty	*Check turn signal / hazard warning relay referring to "Turn Signal and Hazard Warning Relay Inspection: ".*
	Turn signal light switch faulty	*Check turn signal light switch referring to "Turn Signal Light Switch (in Lighting Switch) Inspection: ".*
	Hazard warning switch faulty	*Check hazard warning switch referring to "Hazard Warning Switch Inspection: ".*
	Open circuit or high resistance existing between battery and switch	*Repair circuit.*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Flash rate low	Supply voltage low	*Check charging system.*
	Turn signal / hazard warning relay faulty	*Check turn signal / hazard warning relay referring to "Turn Signal and Hazard Warning Relay Inspection: ".*

Clearance, Tail and License Plate Light Symptom Diagnosis

S5JB0A9204003

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
All lights do not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Lighting and dimmer switch of combination switch faulty	*Check lighting and dimmer switch referring to "Headlight Switch (in Lighting Switch) Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*
Some lights do not light up	Bulb(s) blown	*Replace bulb(s).*
	Wiring or grounding faulty	*Repair circuit.*

Back-Up Light Symptom Diagnosis

S5JB0A9204004

Condition	Possible cause	Correction / Reference Item
Back-up lights do not light up	Bulb(s) blown	*Replace bulb(s).*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Back-up light switch (M/T model) or transmission range sensor (A/T model) faulty	*Check back-up light switch or transmission range sensor referring to "Back Up Light Switch Inspection: in Section 5B" or "Transmission Range Sensor Inspection and Adjustment: in Section 5A".*
	Wiring or grounding faulty	*Repair circuit.*
Back-up lights stay on	Back-up light switch (M/T model) or transmission range sensor (A/T model) faulty	*Check back-up light switch or transmission range sensor referring to "Back Up Light Switch Inspection: in Section 5B" or "Transmission Range Sensor Inspection and Adjustment: in Section 5A".*

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Stop (Brake) Lamp Symptom Diagnosis

S5JB0A9204005

Condition	Possible cause	Correction / Reference Item
Stop (brake) lamp do not light up	Bulb(s) blown	*Replace bulb(s).*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Stop (brake) lamp switch faulty	*Check stop (brake) lamp switch referring to "Stop (Brake) Lamp Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
Stop (brake) lamp stay on	Stop (brake) lamp switch faulty	*Check or adjust stop (brake) lamp switch referring to "Stop (Brake) Lamp Switch Inspection: " or "Brake Light Switch Adjustment: in Section 4A".*

Front Fog Light (If Equipped) Symptom Diagnosis

S5JB0A9204006

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Only one light does not light	Bulb blown	*Replace bulb.*
	Wiring or grounding faulty	*Repair circuit.*
Front fog lights do not light	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulbs blown	*Replace bulbs.*
	Front fog light switch faulty	*Check front fog light switch referring to "Front Fog Light Switch Inspection (If Equipped): ".*
	Front fog light relay faulty	*Check front fog light relay referring to "Front Fog Light Relay Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Check BCM for function referring to "Inspection of BCM and its Circuits: in Section 10B".*

Rear Fog Light Symptom Diagnosis (If Equipped)

S5JB0A9204011

Condition	Possible cause	Correction / Reference Item
Rear fog light do not light	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Bulb blown	*Replace bulb.*
	Rear fog light switch faulty	*Check rear fog light switch referring to "Rear Fog Light Switch Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*

Illumination Cancel System Symptom Diagnosis (If Equipped)

S5JB0A9204012

Condition	Possible cause	Correction / Reference Item
Illumination cancel do not normal operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Illumination cancel switch faulty	*Check illumination cancel switch referring to "Illumination Cancel Switch (If Equipped) Inspection: ".*
	Combination meter and/or information display (clock) faulty	*Replace combination meter and/or information display (clock).*
	Wiring or grounding faulty	*Repair circuit.*

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Interior Light Symptom Diagnosis

S5JB0A9204007

NOTE

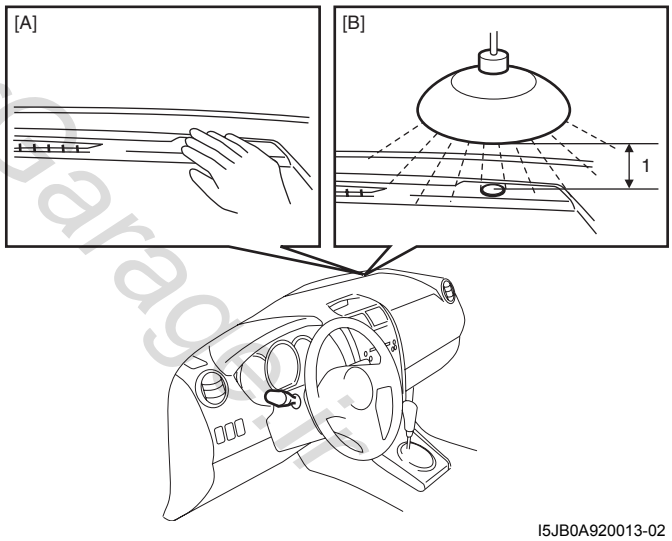
- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Dome light does not light up	Bulb blown	*Replace bulb.*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Dome light switch faulty	*Check dome light switch.*
	Door switch faulty	*Check door switch referring to "Door Switch (Front / Rear / Rear End Door) Inspection: in Section 9C".*
	Wiring or grounding	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Luggage compartment light (if equipped) does not light up	Bulb blown	*Replace bulb.*
	Back door switch faulty	*Check switch referring to "Door Switch (Front / Rear / Rear End Door) Inspection: in Section 9C".*
	Wiring or grounding faulty	*Repair circuit.*

Auto-On Headlight Operation Inspection (If Equipped)

S5JB0A9204020

1) Turn ignition switch to ON position and then turn lighting switch to "AUTO" position.
2) Release parking brake lever.
3) Check headlights for operation as follows. If headlights do not turn ON or OFF, go to "Auto-On Headlight System Symptom Diagnosis (If Equipped): ".
   a) Cover auto-on headlight sensor by hand and check that headlights light up then.
   b) Light over auto-on headlight sensor vertically with on incandescent lamp of approx, 100 W apart from about 100 mm (3.94 in.) (1) and check that headlights go off then.
   c) In the state as described in Step a), pull up parking brake lever and check that headlights go off then.



I5JB0A920013-02

[A]: Fig. for Step a)	[B]: Fig. for Step b)

DRL Operation Inspection (If Equipped)

S5JB0A9204013

1) Confirm that lighting switch is in OFF position.
2) Confirm that dimmer and passing switch is in low beam position.
3) Check DRL for operation as follows.
   a) Turn ignition switch to ON position and check headlights remain OFF.
   b) Start engine and run it at idle speed. Check headlights turn ON at low beam.
   c) Switch dimmer and passing switch to high beam position and check headlights remain tuning ON at low beam.
4) If a malfunction is found, go to "DRL System Symptom Diagnosis (If Equipped): ".

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Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System)

S5JB0A9204021

Headlight auto leveling control module and its circuits can be checked at headlight auto leveling control module wiring couplers by measuring voltage and pulse signal.

⚠ CAUTION

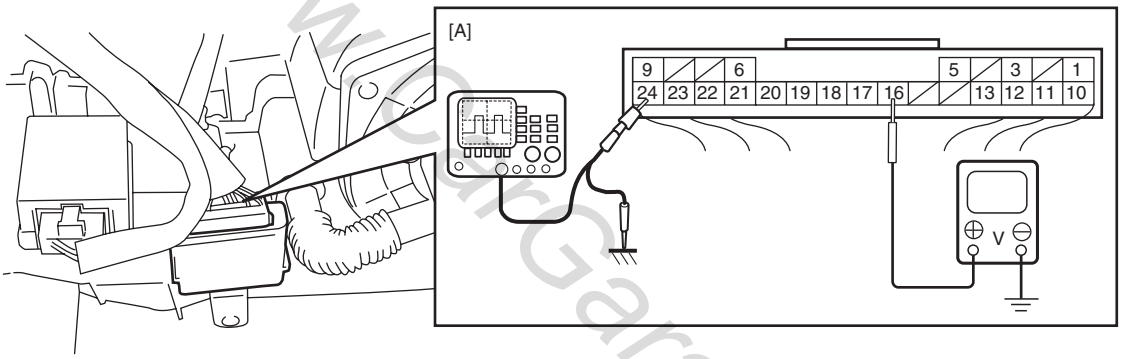
Headlight auto leveling control module cannot be checked by itself. It is strictly prohibited to connect voltmeter or ohmmeter to headlight auto leveling control module with couplers disconnected from it.

Voltage Check

Check voltage between each terminal of headlight auto leveling control module and vehicle body ground under each condition. If measured voltage is out of standard value, check circuit (including switch and sensor) of terminal where voltage was measured.

NOTE

- **As each terminal voltage is affected by the battery voltage, confirm that it is 11 V or more when ignition switch is ON.**
- **Voltage with asterisk (*) cannot be measured by voltmeter because it is pulse signal.Check it with oscilloscope if necessary.**



I5JB0A920014-02

[A]: Headlight leveling control module connector (viewed from harness side)

Terminal	Circuit	Specification	Condition
1	Power source	10 – 14 V	Ignition switch is at ON position.
2	—	—	—
3	Lighting switch	Less than 1.5 V	Lighting switch is at “HEAD” position.
		10 – 14 V	Lighting switch is at OFF position.
4	—	—	—
5	—	—	—
6	Headlight auto leveling indicator	Continuity	For about 3 seconds after ignition switch is turned on (i.e., headlight auto leveling indicator is lit up).
		No continuity	More than about 3 seconds after ignition switch is turned on (i.e., headlight auto leveling indicator is not lit up).
7	—	—	—
8	—	—	—
9	Ground for headlight auto leveling control unit	0 V	Ignition switch is at ON position.
10	Power supply for right headlight leveling actuator	10 – 14 V	Ignition switch is at ON position.
11	Power supply for left headlight leveling actuator	10 – 14 V	Ignition switch is at ON position.

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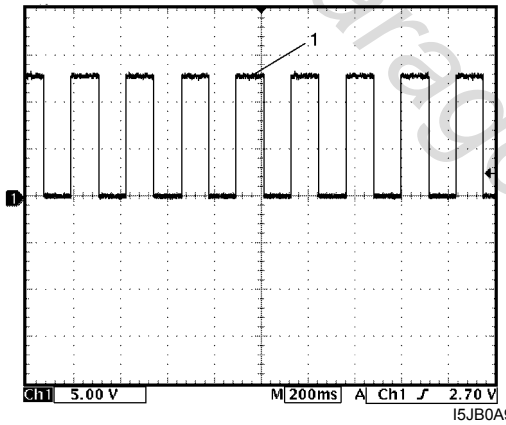
Terminal	Circuit	Specification	Condition
12	Power supply for rear height sensor	About 5 V	Ignition switch is at ON position.
13	Power supply for front height sensor	About 5 V	Ignition switch is at ON position.
14	—	—	—
15	—	—	—
16	Vehicle speed signal	Refer to “Reference waveform No.1: ”.	
17	Signal for right headlight leveling actuator	Less than 1 V	Lighting switch is at OFF position.
		1.0 – 12.6 V	For 10 seconds after turning lighting switch to ON position.
18	Signal for left headlight leveling actuator	Less than 1 V	Lighting switch is at OFF position.
		1.0 – 12.6 V	For 10 seconds after turning lighting switch to ON position.
19	Input signal for rear height sensor	About 2.5 V	Ignition switch is at ON position.
20	Input signal for front height sensor	About 2.5 V	Ignition switch is at ON position.
21	Ground for rear height sensor	0 V	Ignition switch is at ON position.
22	Ground for front height sensor	0 V	Ignition switch is at ON position.
23	Ground for right headlight leveling actuator	0 V	Ignition switch is at ON position.
24	Ground for left headlight leveling actuator	0 V	Ignition switch is at ON position.

Reference waveform No.1

Vehicle speed signal (1).

Vehicle speed signal is pulse. Pulse frequency varies depending on vehicle speed.

Measurement terminal	CH 1: “G51-16” to “G51-9”
Oscilloscope setting	CH 1: 200 mV TIME: 40.0 ms/DIV
Measurement condition	Engine is running and vehicle speed 10 km/h (6 mph)



I5JB0A920037-01

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Repair Instructions

Headlight Housing Removal and Installation

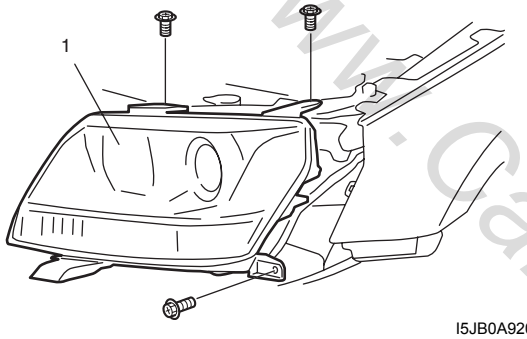
S5JB0A9206001

⚠ WARNING

Be sure to read "Precautions for Discharge Headlight Service (If Equipped): " before starting to service work.
Neglecting them may result in personal injury.

Removal

1) Disconnect negative (–) cable at battery.
2) Remove front bumper. Refer to "Front Bumper Components: in Section 9K".
3) Remove headlight mounting bolts.
4) Detach headlight housing (1) from vehicle.
5) Disconnect couplers from headlight housing (1).



I5JB0A920015-01

Installation

Reverse removal procedure noting the following.

- After installation, be sure to inspect and adjust aiming referring to "Headlight Aiming Adjustment with Screen: ".

Headlight Bulb Replacement

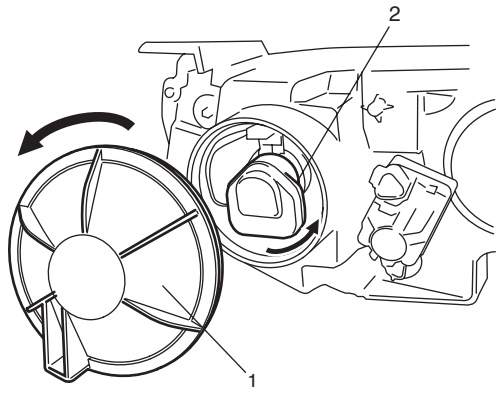
S5JB0A9206002

⚠ WARNING

- **To avoid danger of being burned, don't touch when the bulb is hot.**
- **Don't touch glass surface of bulb, to avoid deteriorate as the case may be unclear when bulb light on at dirty condition.**
- **Be sure to read "Precautions for Discharge Headlight Service (If Equipped): " before starting to service work.**

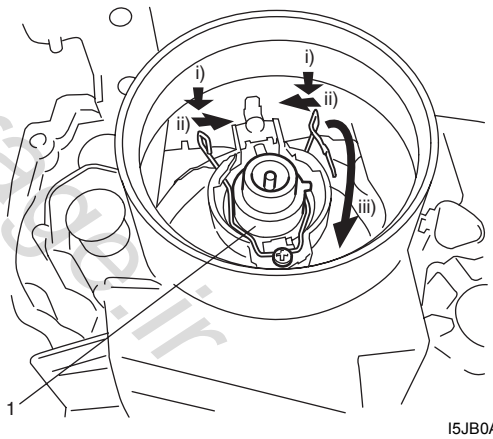
Discharge headlight Bulb

1) Check to ensure that lighting switch is at OFF position.
2) Disconnect negative (–) cable at battery.
3) Remove headlight housing referring to "Headlight Housing Removal and Installation: ".
4) Remove cover (1) from headlight housing by turning it counterclockwise.
5) Remove igniter (2) from discharge headlight bulb by turning it counterclockwise.



I5JB0A920016-01

6) Replace bulb (1) from headlight housing.



I5JB0A920017-01

7) Install igniter (2) to discharge headlight bulb by turning it clockwise.
8) Install cover to headlight housing by turning it clockwise.
9) Install headlight housing to vehicle body referring to "Headlight Housing Removal and Installation: ".
10) Connect negative (–) cable at battery.
11) After installation, be sure to inspect and adjust aiming referring to "Headlight Aiming Adjustment with Screen: ".

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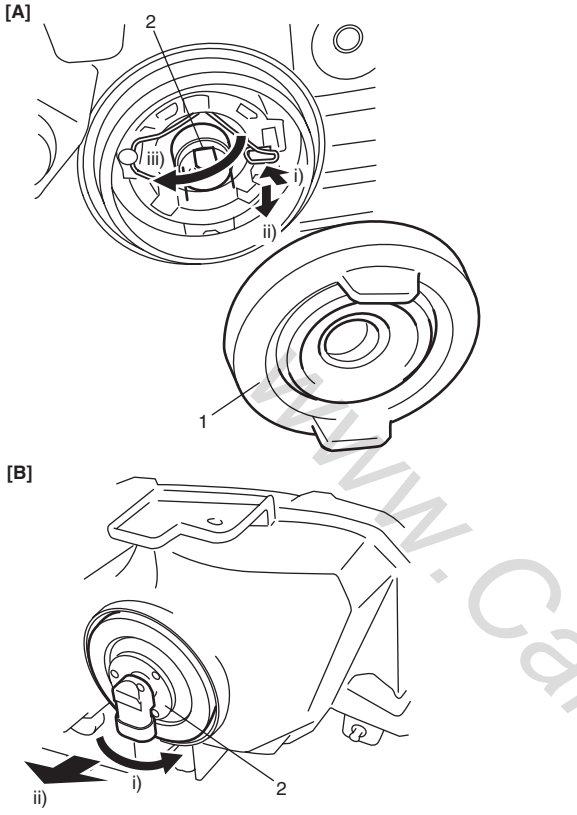
Other Than Discharge Headlight Bulb

1) Disconnect negative (–) cable at battery.
2) Disconnect coupler from bulb (1).
3) Remove socket cover (2) (if equipped).
4) Replace bulb and assemble all removed parts.



I5JB0A920018-01

[A]: 3door model or low beam of 5door model
[B]: High beam of 5door model

Ballast Removal and Installation

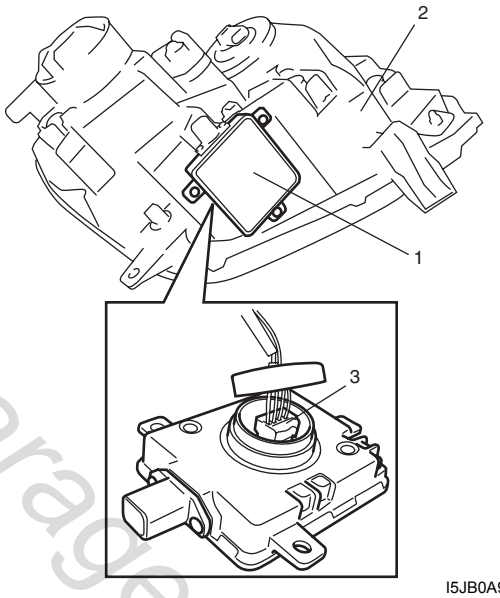
S5JB0A9206023

⚠ WARNING

Be sure to read "Precautions for Discharge Headlight Service (If Equipped): " carefully before working. Neglecting them may result in personal injury.

Removal

1) Check to ensure that lighting switch is at OFF position.
2) Disconnect negative (–) cable at battery.
3) Remove headlight housing referring to "Headlight Housing Removal and Installation: ".
4) Remove ballast (1) from headlight housing (2).
5) Disconnect connector (3) from ballast.



I5JB0A920019-01

Installation

Reverse removal procedure noting the following.

- Connect connectors securely.
- After installation, be sure to inspect and adjust aiming referring to "Headlight Aiming Adjustment with Screen: ".

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Igniter Removal and Installation

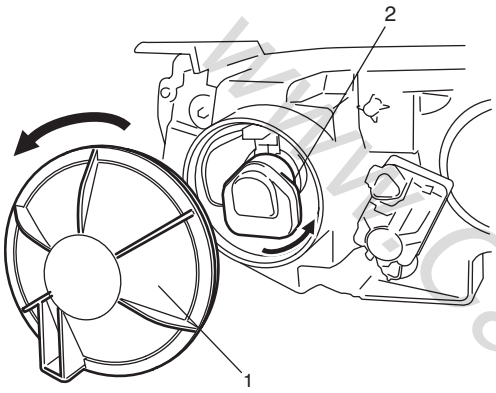
S5JB0A9206024

⚠ WARNING

Be sure to read "Precautions for Discharge Headlight Service (If Equipped): " carefully before working. Neglecting them may result in personal injury.

Removal

1) Remove ballast referring to "Ballast Removal and Installation: ".
2) Remove cover (1) from headlight housing by turning it counterclockwise.
3) Remove igniter (2) from discharge headlight bulb by turning it counterclockwise.



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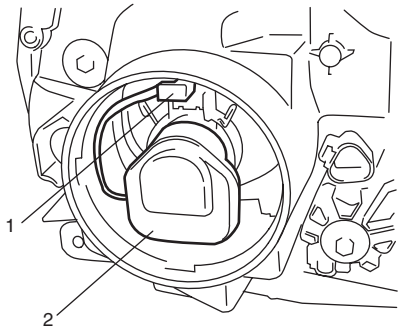
4) After disconnecting ground wire (1), pull out igniter (2) from headlight housing.



I5JB0A920021-01

Installation

Reverse removal procedure noting the following.

- Connect connectors securely.
- After installation, be sure to inspect and adjust aiming referring to "Headlight Aiming Adjustment with Screen: ".

Headlight Aiming Adjustment with Screen

S5JB0A9206003

NOTE

- **Unless otherwise obligated by local regulations, adjust headlight aiming according to the following procedure.**
- **After replacing headlight housing, be sure to adjust aiming.**
- **When inspecting and adjusting headlight with leveling system, make sure to set the leveling switch to "0" position with ignition switch turned ON.**

1) Make sure the following items.
   - Place vehicle on a flat surface in front of blank wall (screen) (1) ahead of headlight surface.

   Distance "a"
   10 m (32.8 ft.)

   - Adjust air pressure of all tires to the specified value respectively.
   - Bounce vehicle body up and down by hand to stabilize suspension.
   - Carry out aiming with a driver aboard.

   Driver's weight
   75 kg (165 lb)

2) Check to see if hot spot (high intensity zone) of each low beam axis falls as shown in figure.

   Hot spot specification
   Angle "b": 0.75° (Specification)
   Calculated distance "H": Approx. 130 mm (5.15 in.)

3) Align headlight aiming to specification by adjusting aiming gear if it is not set properly.

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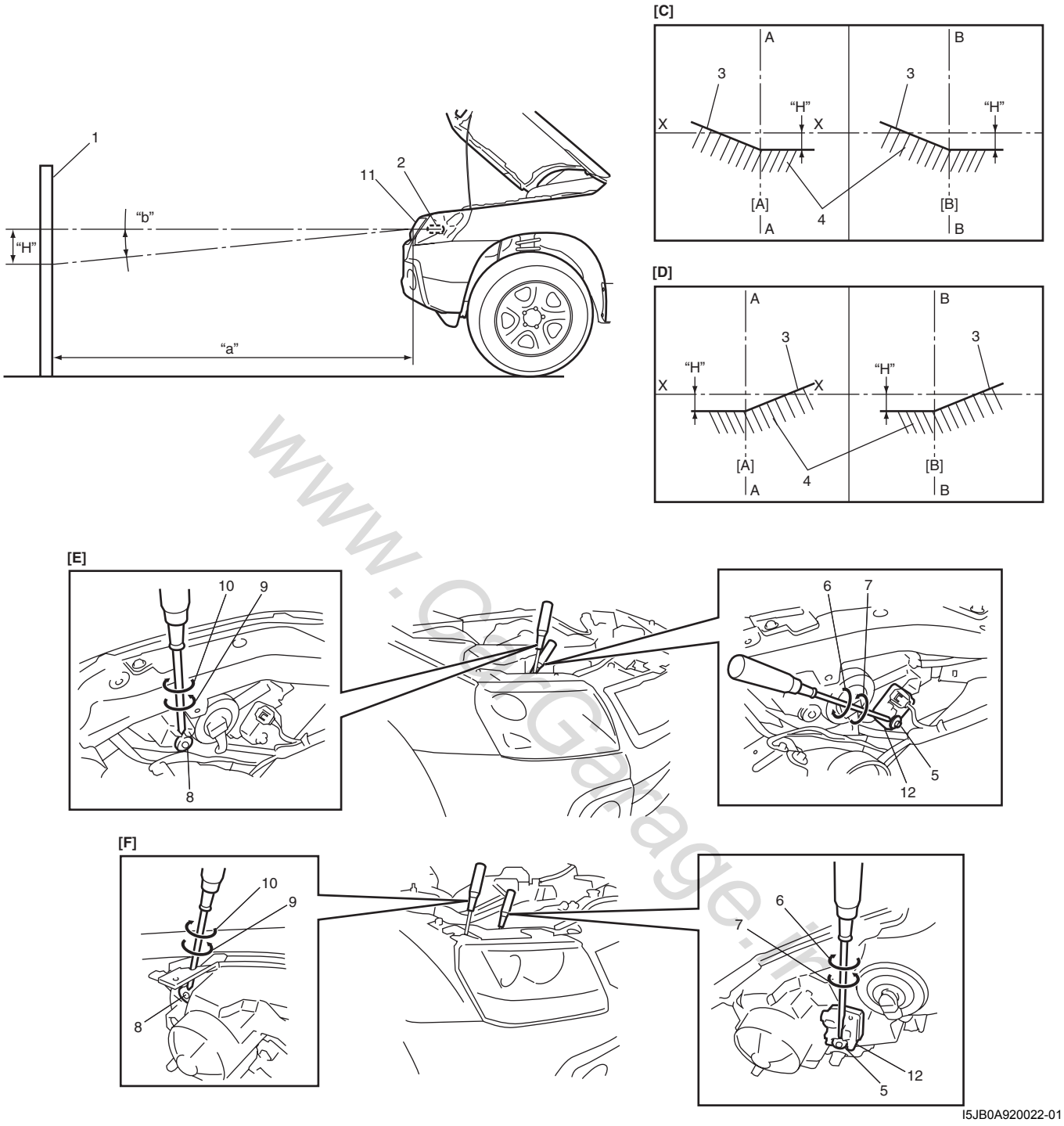

I5JB0A920022-01

2. Headlight bulb	9. Turning (for right adjustment)	[A]: Left headlight
3. Cut line (bounding line)	10. Turning (for left adjustment)	[B]: Right headlight
4. Hot spot	11. Headlight housing	[C]: RH steering vehicle shown
5. Aiming gear (for up / down adjustment)	12. Headlight leveling actuator	[D]: LH steering vehicle shown
6. Turning (for up adjustment)	X-X: Horizontal center line of headlight bulbs	[E]: 3door model
7. Turning (for down adjustment)	A-A: Vertical center line of left headlight bulb	[F]: 5door model
8. Aiming gear (for right / left adjustment)	B-B: Vertical center line of right headlight bulb	

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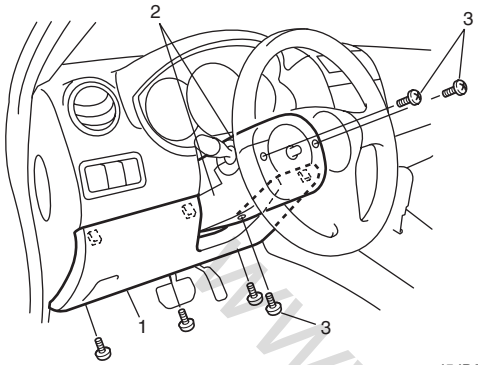
Headlight Switch (in Lighting Switch) Removal and Installation

S5JB0A9206004

Removal

1) Disconnect negative cable at battery.
2) Remove steering column hole cover (1).
3) Remove steering column covers (2).
   Turn steering wheel to access steering column cover screws (3).



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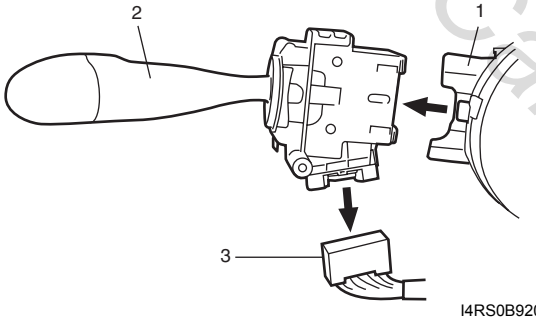
4) Remove lighting switch (1) from combination switch assembly (2) and disconnect its coupler (3).



I4RS0B920005-01

Installation

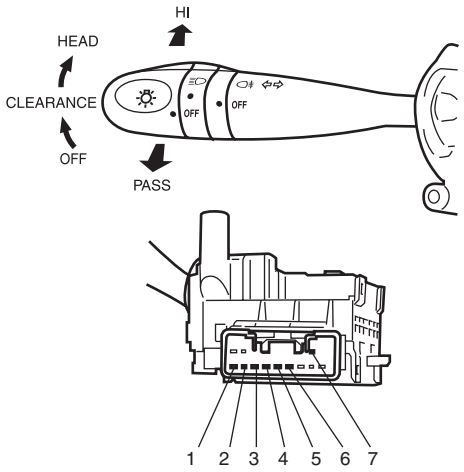
Reverse removal procedure for installation.

Headlight Switch (in Lighting Switch) Inspection

S5JB0A9206005

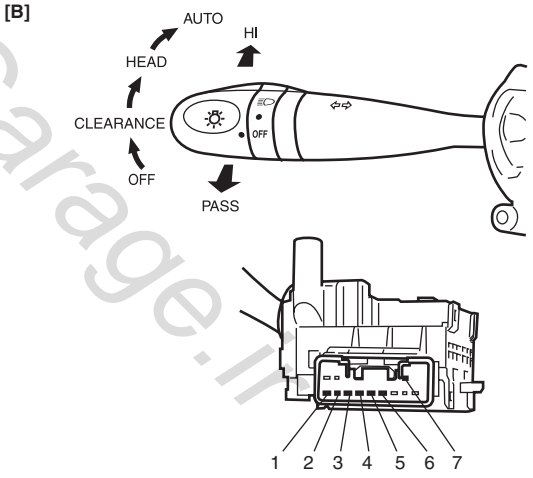
Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.

[A]



Shaft condition	Terminal	1	4	2	3	5	6	7
OFF	LOW						○	○
	PASS				○	○		○
	HI					○		○
CLEARANCE	LOW	○	○				○	○
	PASS	○	○		○	○		○
	HI	○	○			○		○
HEAD	LOW	○	○	○	○		○	○
	PASS	○	○	○	○	○		○
	HI	○	○	○	○	○		○

[B]



Shaft condition	Terminal	1	4	2	3	5	6	7
OFF	LOW						○	○
	PASS				○	○		○
	HI					○		○
CLEARANCE	LOW	○	○				○	○
	PASS	○	○		○	○		○
	HI	○	○			○		○
HEAD	LOW	○	○		○		○	○
	PASS	○	○		○	○		○
	HI	○	○		○	○		○
AUTO	LOW			○	○	○	○	○
	PASS			○	○			○
	HI			○	○	○		○

I5JB0A920023-01

[A]: Without auto-on headlight system
[B]: With auto-on headlight system

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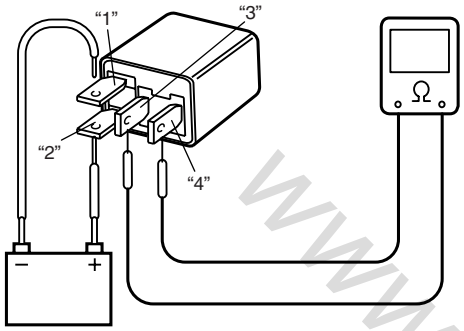
Headlight Relay Inspection

1) Disconnect negative (–) cable at battery.
2) Remove headlight relay from main fuse box.
3) Check that there is no continuity between terminal “3” and “4”. If there is continuity, replace relay.
4) Connect battery positive (+) terminal to terminal “2” of relay and battery negative (–) terminal to terminal “1” of relay.
5) Check continuity between terminal “3” and “4”. If there is no continuity when relay is connected to the battery, replace relay.



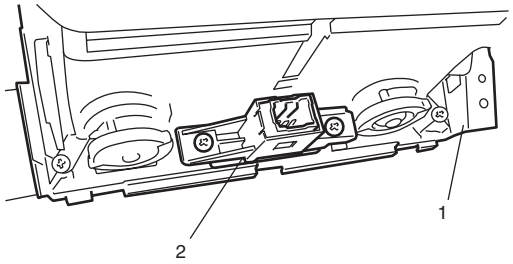
I4RS0A920022-01

Hazard Warning Switch Removal and Installation

S5JB0A9206006

Removal

1) Disconnect negative (–) cable at battery.
2) Remove audio unit referring to “Audio Unit Removal and Installation: in Section 9C”.
3) Remove center ventilation louver (1) referring to “Center Ventilation Louver Removal and Installation: in Section 7A”.
4) Disconnect coupler, and then remove hazard warning switch (2) from center ventilation louver (1).



I5JB0A920024-01

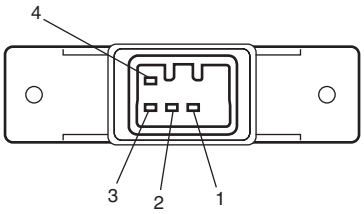
Installation

Reverse removal procedure for installation.

Hazard Warning Switch Inspection

S5JB0A9206007

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



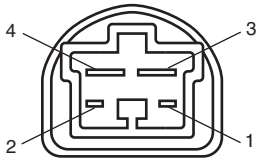
Switch Position \ Terminal	1	2	3	4
OFF			○ ○	○
ON	○	○		

I5JB0A920025-01

Stop (Brake) Lamp Switch Inspection

S5JB0A9206008

Check stop (brake) lamp switch for continuity between terminals at each switch position.
If check result is not as specified, replace switch.



Shaft condition \ Terminal	1	2	3	4
FREE			○	○
PUSH	○	○		

I5RS0A920001-01

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Turn Signal Light Switch (in Lighting Switch) Removal and Installation

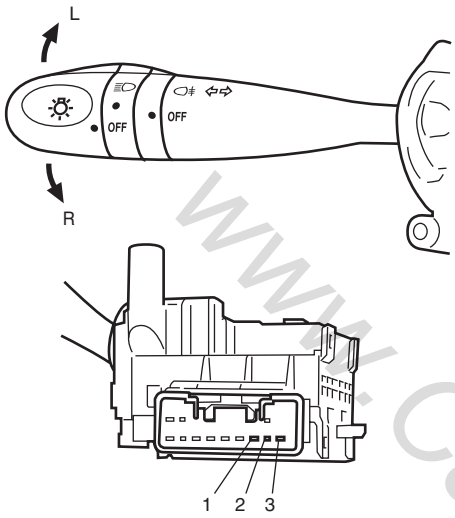
S5JB0A9206009

For removal and Installation, refer to “Headlight Switch (in Lighting Switch) Removal and Installation: ”.

Turn Signal Light Switch (in Lighting Switch) Inspection

S5JB0A9206010

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



Terminal / Turn signal SW	1	2	3
L		○	○
N			
R	○	○	

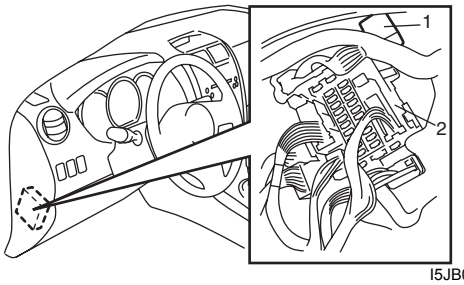
I4RS0B920009-01

Turn Signal and Hazard Warning Relay Removal and Installation

S5JB0A9206011

Removal

1) Disconnect negative (–) cable at battery.
2) Remove turn signal and hazard warning relay (1) from junction block (2).



I5JB0A920026-01

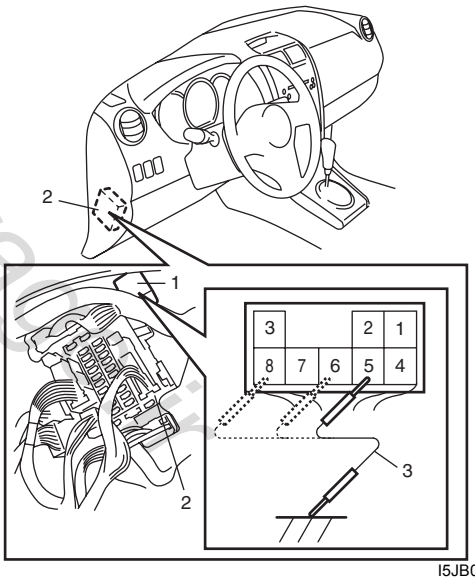
Installation

Reverse removal procedure for installation.

Turn Signal and Hazard Warning Relay Inspection

S5JB0A9206025

1) Remove turn signal and hazard warning relay (1) from junction block (2).
2) Connect connector to turn signal and hazard warning relay.
3) Turn ignition switch to ON position.
4) Check turn signal and hazard warning relay for operation.
   - Check that left side turn signal lamps flash when 5 terminals of turn signal and hazard warning relay and vehicle body ground are connected using service wire (3).
   - Check that right side turn signal lamps flash when 6 terminals of turn signal and hazard warning relay and vehicle body ground are connected using service wire.
   - Check that left and side turn signal lamps flash when 8 terminals of turn signal and hazard warning relay and vehicle body ground are connected using service wire.If turn signal lamps do not flash, check power supply and ground circuits of turn signal and hazard warning relay.



I5JB0A920027-01

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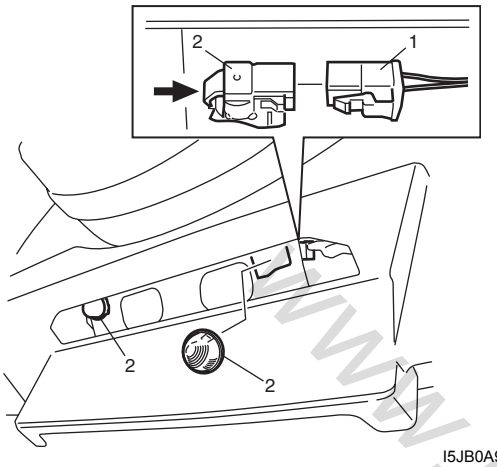
License Lamp Assembly Removal and Installation

S5JB0A9206013

Removal

1) Disconnect negative (–) cable at battery.
2) Disconnect coupler (1) from license lamp assembly (2).
3) Push locking part to arrow direction, and then remove license lamp assembly (2).



I5JB0A920028-01

Installation

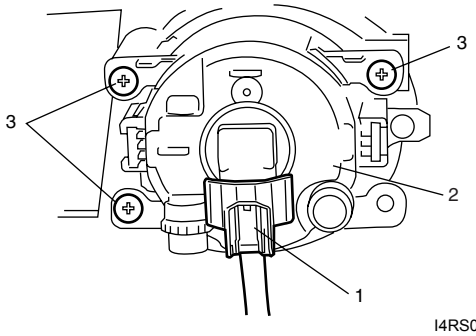
Reverse removal procedure for installation.

Front Fog Light Assembly Removal and Installation (If Equipped)

S5JB0A9206014

Removal

1) Disconnect negative (–) cable at battery.
2) Remove front bumper. Refer to “Front Bumper Components: in Section 9K”.
3) Disconnect coupler (1) from fog light (2).
4) Remove fog light screws (3), and remove front fog light assembly (2).



I4RS0A920019-01

Installation

Reverse removal procedure for installation nothing the following:

- After installing, adjust aiming referring to “Front Fog Light Aiming Adjustment with Screen (If Equipped): ”.

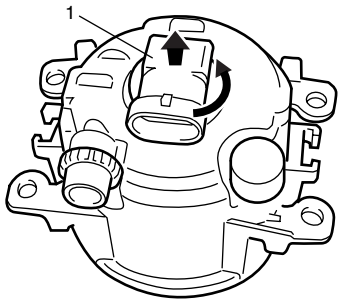
Front Fog Light Bulb Replacement (If Equipped)

S5JB0A9206015

⚠ WARNING

- **To avoid danger of being burned, don’t touch when the bulb is hot.**
- **Don’t touch glass surface of bulb to avoid deteriorate as the case may be unclear when bulb light on at dirty condition.**

1) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
2) Remove fog light bulb (1) as shown.



I4RS0A920020-01

3) Replace fog light bulb and assemble all removed parts.

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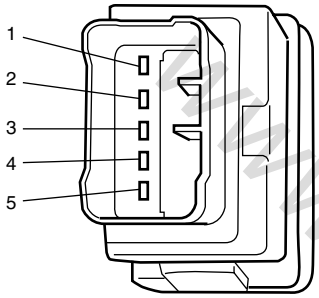
Front Fog Light Switch Inspection (If Equipped)

S5JB0A9206016

NOTE

Front fog lights light up only when headlight switch is in HEADLIGHT position (low or high beams) or SMALL position. Front fog lights turn OFF automatically when headlight switch is turned to OFF position. If front fog light switch holds ON position, front fog lights turn ON automatically when headlight switch is tuned to HEADLIGHT position (low or high beams) or SMALL position again.

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



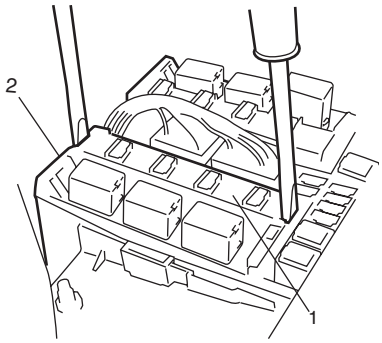
Terminal / Switch Position	2	3	1	5	4
OFF		○ ○	○	○ ○	○
ON (PUSH IN)	○	○ ○	○		

I4RS0A920021-01

Front Fog Light Relay Inspection (If Equipped)

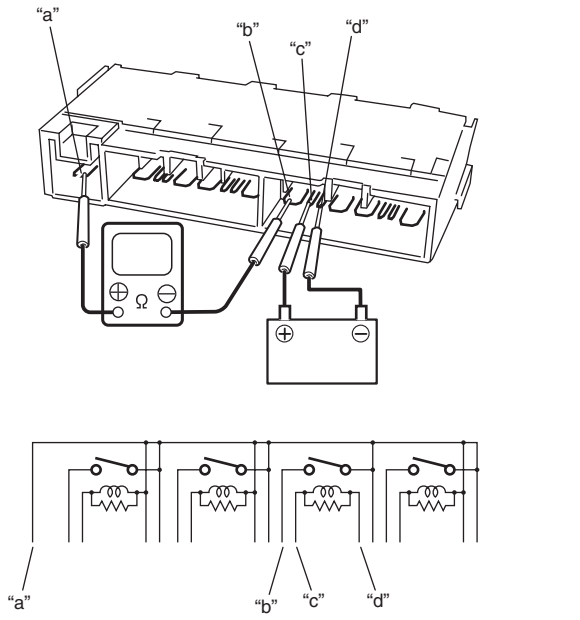
S5JB0A9206017

1) Disconnect negative (–) cable from battery.
2) Remove front fog light relay (included in integration relay) (1) from main fuse box (2).



I5JB0A920029-01

3) Check that there is no continuity between terminals “a” and “b”.
   If there is continuity, replace relay.
   Check that there is continuity between terminals “a” and “b” when a 12 V battery is connected to terminal “c” and “d”.
   If malfunction is found, replace integration relay.



I5JB0A920030-03

Front Fog Light Aiming Adjustment with Screen (If Equipped)

S5JB0A9206018

Basic Aiming

NOTE

- **Unless otherwise obligated by local regulations, adjust front fog light aiming according to the following procedure.**
- **An example in case that the light-to-wall distance 10 m is shown in the illustration. The beam descending distance “H” is calculated when “a” is 10 m with the specification angle “b” (1.75°).**

1) Make sure the following items.
   - Place vehicle on a flat surface in front of blank wall (screen) (1) ahead of front fog light surface.

     Distance between screen and front fog light “a”: 10 m (32.8 ft.)

   - Adjust air pressure of all tired to the specified value respectively.
   - Bounce vehicle body up and down by hand to stabilize suspension.
   - Carry out aiming with a driver aboard.

     Driver’s weight
     75 kg (165 lb)

2) Check to see if hot spot (high intensity zone) of each front fog light axis falls as shown in the figure.

   Hot spot specification
   Angle “b”: 1.75° (Specification)
   Calculated distance “H”: Approx. 300 mm (11.81 in.)

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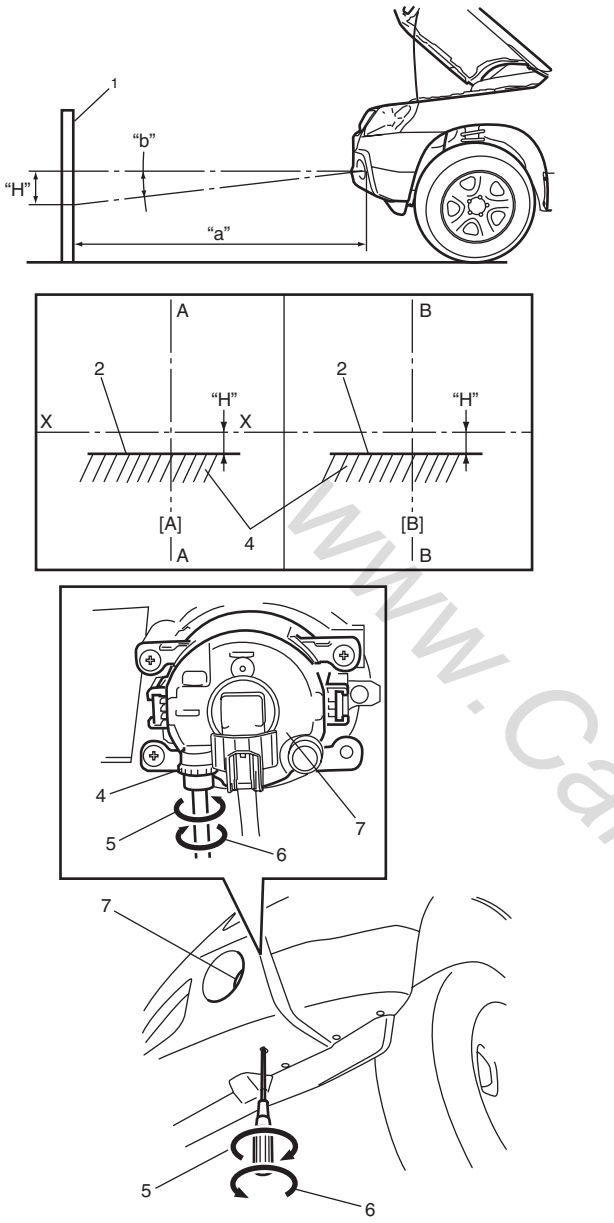
3) If it is not set properly, align front fog light to specification by rotating aiming gear.



I5JB0A920031-02

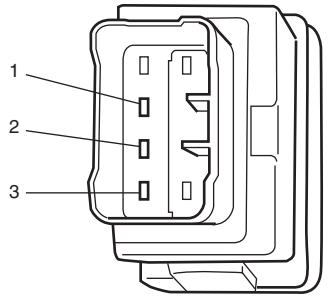
2.	Bounding line
3.	Hot spot
4.	Aiming gear (for up / down adjustment)
5.	Turning (for up adjustment)
6.	Turning (for down adjustment)
7.	Front fog light assembly
X-X:	Horizontal center line of front fog light bulb
A-A:	Vertical center line of left front fog light bulb
B-B:	Vertical center line of right front fog light bulb
[A]:	Left front fog light
[B]:	Right front fog light

Headlight Manual Leveling Switch (If Equipped)

Inspection

S5JB0A9206019

Check for continuity between terminals at each switch position.
If check result is not as specified, replace switch.



Switch Position	Terminal	Resistance (Ω)
-	1 and 2	4370 - 4830
0	1 and 3	646 - 714
	2 and 3	3724 - 4116
1	1 and 3	1292 - 1428
	2 and 3	3078 - 3402
2	1 and 3	1938 - 2142
	2 and 3	2432 - 2688
3	1 and 3	2584 - 2856
	2 and 3	1786 - 1974
4	1 and 3	3230 - 3570
	2 and 3	1140 - 1260

I4RS0B920012-01

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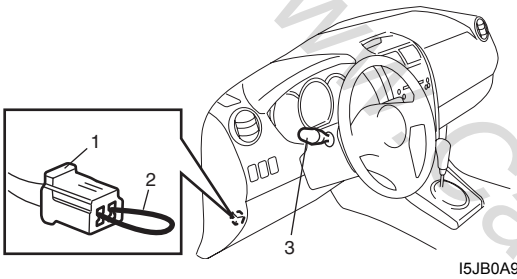
Headlight Leveling Actuator Inspection (If Equipped)

S5JB0A9206026

Vehicle equipped with headlight auto leveling system

1) Make sure all couplers of headlight and leveling actuator are connected securely.
2) Park vehicle in front of blank wall (screen).
3) Turn ignition switch to ON position.
4) Perform “Headlight Leveling Warning Light Check: ”.
5) Connect service wire (2) to terminals of diagnosis connector (1).
6) Perform Steps a) through c) described below within 20 seconds after Step 5).
   a) Turn lighting switch (3) to “HEAD” position and then turn lighting switch to OFF position.
   b) Repeat Step a) 2 times.
   c) Turn lighting switch (3) to “HEAD” position.



I5JB0A920032-01

7) Check that optical axes of headlights reflected on blank wall (screen) change. If not, go to “Headlight Auto Leveling System Symptom Diagnosis (If Equipped): ”.

Vehicle equipped with manual leveling headlight system

1) Make sure all couplers of headlight and leveling actuator are connected securely.
2) Park vehicle in front of blank wall (screen).
3) Turn ignition switch to ON position.
4) Turn lighting switch to “HEAD” position.
5) Move manual leveling headlight switch and check that optical axes of headlights reflected on blank wall (screen) change then.Also check that leveling actuator sounds slightly while moving leveling switch. If optical axes do not change, go to “Headlight Manual Leveling System Symptom Diagnosis (If Equipped): ”.

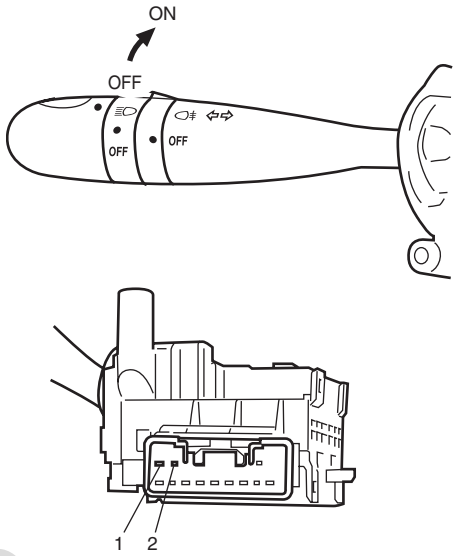
Rear Fog Light Switch Inspection (If Equipped)

S5JB0A9206020

NOTE

- **Rear fog light switch can be turned to ON position only when headlight switch is turned to HEADLIGHT position (low or high beams).**
- **Rear fog light switch turns OFF automatically when headlight switch is turned to OFF position.**

Check for continuity between terminals at each switch position.
If check result is not as specified, replace switch.



Terminal / Shaft condition	1	2
OFF		
ON	○	○

I4RS0B920013-01

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Height Sensor Removal and Installation (If Equipped)

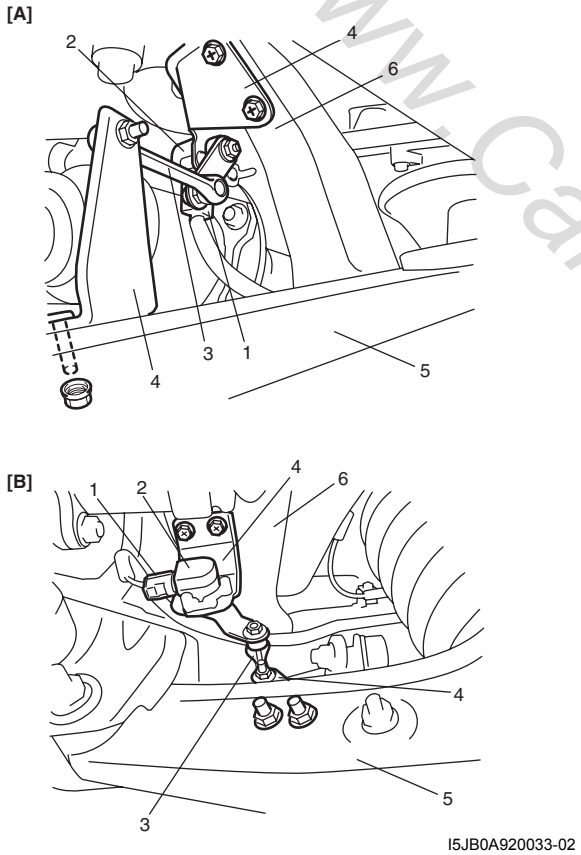
S5JB0A9206027

Removal

⚠ CAUTION

- **Do not remove bracket (4) and link (3) from height sensor (2). Removal will spoil its original function. If faulty condition is found, replace it with new one in a set.**
- **If height sensor was dropped from a height of 30 cm (0.9 ft) or more, replace it with new one.**

1) Disconnect negative (–) cable at battery.
2) Disconnect height sensor connector (1) from height sensor (2).
3) Remove front height sensor with its bracket (4) from suspension frame (6) and lower arm (5).



I5JB0A920033-02

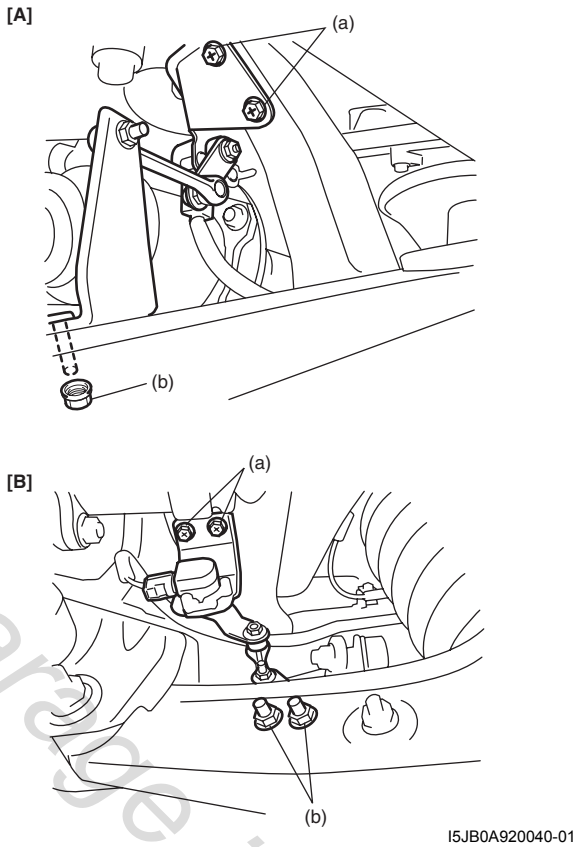
[A]: Front	[B]: Rear

Installation

For installation, reverse removal procedure noting the following.

- Check that bracket and link of height sensor are not deformed.
- Tighten height sensor bolts and nuts to specified torque.

Tightening torque
Height sensor bolt (a): 8 N·m (0.8 kgf-m, 6.0 lb-ft)
Height sensor nut (b): 8 N·m (0.8 kgf-m, 6.0 lb-ft)



I5JB0A920040-01

[A]: Front	[B]: Rear

- Connect connector securely.
- After installation, initialize auto leveling headlight system referring to “Initialization of Auto Leveling Headlight System: ”.

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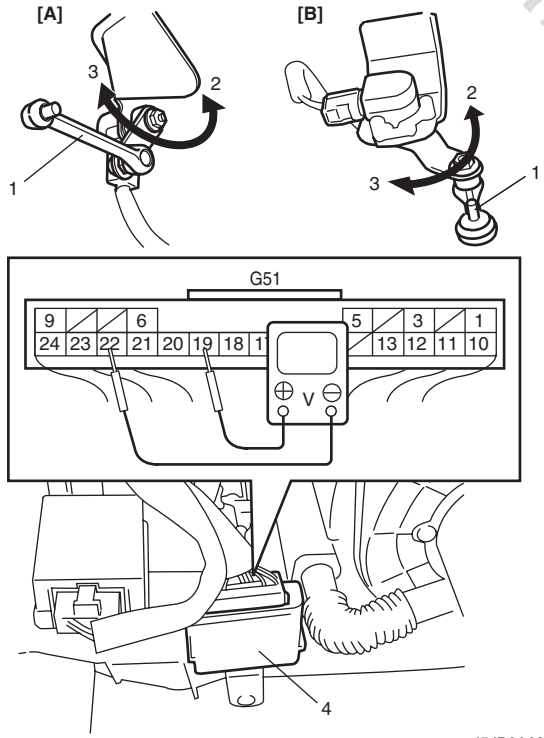
Height Sensor and Its Circuit Inspection (If Equipped)

S5JB0A9206028

1) Remove front or rear height sensor from vehicle referring to “Height Sensor Removal and Installation (If Equipped): ”.
2) Connect connector to height sensor.
3) Vary position of height sensor link (1) and measure voltage between terminals of headlight auto leveling control module (4) as described below.
   - For front height sensor
     Between “G51-20” and “G51-22” terminals of headlight leveling control module.
   - For rear height sensor
     Between “G51-19” and “G51-21” terminals of headlight leveling control module.
     If check result is not as specified, perform inspections of power supply, ground and signal circuits of front or rear height sensor which is described under “Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System): ”. If circuits are OK, replace height sensor.

Height sensor output voltage
Full bound position (2): about 0.5 V
Full rebound position (3): about 4.5 V



I5JB0A920034-02

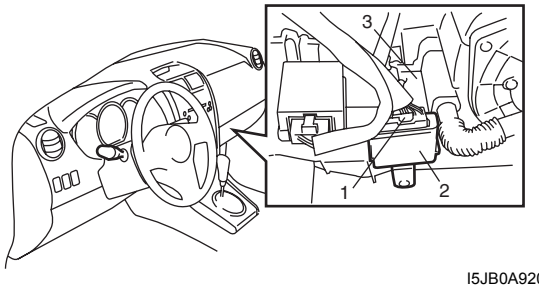
[A]: Front	[B]: Rear

Leveling Control Module Removal and Installation (If Equipped)

S5JB0A9206029

Removal

1) Disconnect negative (–) cable at battery.
2) Disconnect connector (1) from headlight leveling control module (2).
3) Remove headlight leveling control module with its bracket from heater unit (3).



I5JB0A920035-01

Installation

For installation, reverse removal procedure noting the following.

- Connect connector securely.
- After replacing headlight leveling control module with new one, initialize auto leveling headlight system referring to “Initialization of Auto Leveling Headlight System: ”.

Initialization of Auto Leveling Headlight System

S5JB0A9206030

Initialization of the auto leveling headlight system is to make the headlight leveling control module learn signals which are fed from the height sensors when the vehicle is at the standard height. Standard height means the height of the vehicle with a driver but without load in it. Initialization of the auto leveling headlight system is required when any of the following works has been performed.

- Replacement of headlight leveling control module
- Removal of front and/or rear height sensor link from lower arm
- Removal of front and/or rear height sensor from suspension frame
- Replacement of front and/or rear height sensor

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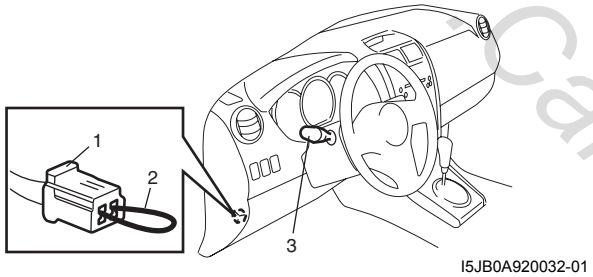
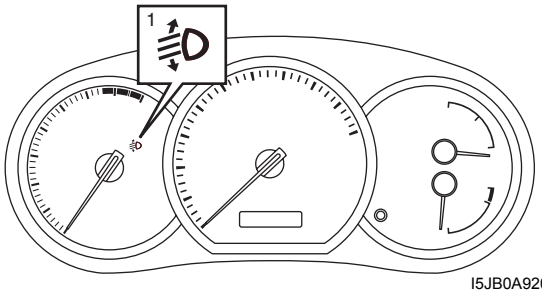
Without initialization of the auto leveling headlight system, it is not possible to obtain its proper function. Also, if the auto leveling headlight system is not initialized after replacing the headlight leveling control module, the headlight leveling warning light in the combination meter flashes.

1) Observe the following instructions.
   - Park vehicle on level ground.
   - Adjust air pressure of all tires to the specified value respectively.
   - Bounce vehicle body up and down by hand to stabilize suspension.
2) Turn ignition switch to ON position.
3) Perform “Headlight Leveling Warning Light Check: ”.
4) Connect service wire (2) to terminals of diagnosis connector (1).
5) Perform Steps a) through b) described blow within 20 seconds after Step 4).
   a) Turn lighting switch (3) to “HEAD” position and then turn lighting switch to OFF position.
   b) Repeat Step a) 2 times.



I5JB0A920032-01

6) Confirm that headlight leveling warning light flashes 3 times and turns off, which indicates that system initialization was completed properly. If it does not turn off after flashing 3 times, it means initialization was not successful. In such case, turn off ignition switch and perform Steps 1) to 6) again.

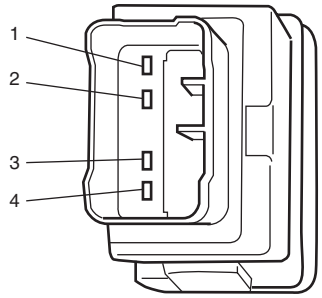


I5JB0A920012-01

Illumination Cancel Switch (If Equipped) Inspection

S5JB0A9206021

Check for continuity between terminals at each switch position.
If check result is not as specified, replace switch.



Terminal / Switch Position	1	2	3	4
OFF	○		○ ⌀	○
ON (PUSH IN)		○	○ ⌀	○

I4RS0B920014-01

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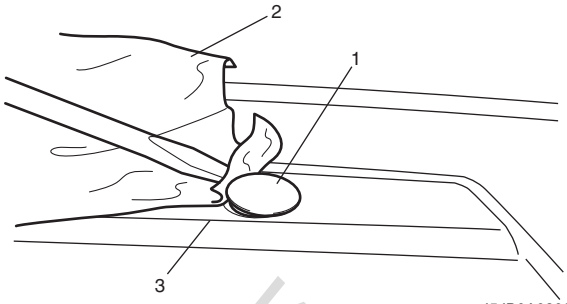
Auto-On Headlight Sensor Inspection (If Equipped)

S5JB0A9206031

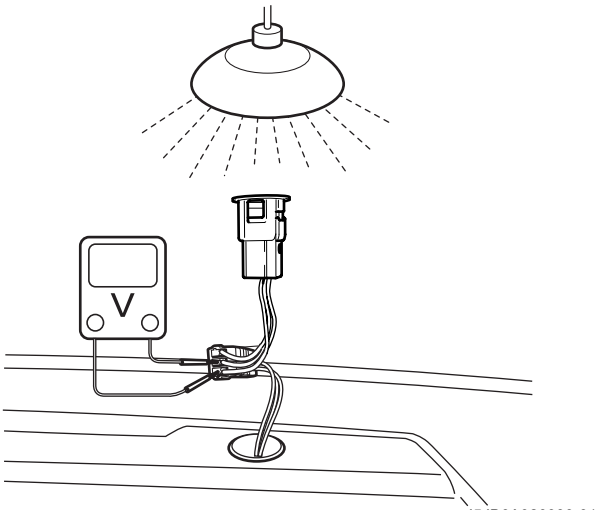
1) Disconnect negative (–) cable at battery.
2) Remove auto-on headlight sensor (1) located on the passenger side of the dashboard (2). Be careful not to damage the sensor (1) and dashboard by using rag (3).



I5JB0A920038-01

3) Measure voltage between white wire terminal and black wire terminal at the following condition.
If measured voltage is out of specification, replace sensor.

Auto-on headlight sensor voltage specifications
Cover the sensor lens with hand: 0.4 V
Light the sensor lens with incandescent lamp 100 W: 3 – 4.5 V



I5JB0A920039-01

Specifications

Tightening Torque Specifications

S5JB0A9207001

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Height sensor bolt	8	0.8	6.0	☞
Height sensor nut	8	0.8	6.0	☞

Reference:
For the tightening torque of fastener not specified in this section, refer to “Fastener Information: in Section 0A”.

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Instrumentation / Driver Info. / Horn

Precautions

Precautions in Diagnosing Troubles for Combination Meter

S5JB0A9300001

- Combination meter uses signals (information) from each control module by CAN communication to control speedometer, tachometer, fuel meter, engine coolant temp meter, warning light and indicator light (other than air bag warning light, headlight leveling warning light, rear fog light and turn signal indicator lamp). Therefore, check that no DTC is detected in each module before performing combination meter symptom diagnosis. If any DTC is detected, correct trouble indicated by that DTC troubleshooting first.
- Seat belt reminder can be canceled by scan tool or specified procedure. If neither warning buzzer nor seat belt reminder light operates, first confirm that seat belt reminder is not selected referring to “Scan Tool Data: in Section 10B”. For further details, refer to “Seat Belt Construction: in Section 8A”.

General Description

CAN Communication Data of Combination Meter

S5JB0A9301001

Combination meter communicates with each control module about the following information. For details of CAN communication, refer to “CAN Communication System Description: in Section 1A”.

- Data from ECM
  - Engine revolution speed signal
  - Engine coolant temperature signal
  - Vehicle speed signal
  - Malfunction indicator lamp (MIL) control signal
  - Immobilizer indicator lamp control signal
  - Fuel level signal
  - “CRUSE” and “SET” indicator lamp control signal (if equipped)
  - Diagnostic trouble code (DTC) of ECM
- Data from TCM (A/T model)
  - Transmission range sensor signal (A/T selector lever position indicator)
  - Malfunction indicator lamp (MIL) control signal
  - Automatic transmission mode indicator lamp control signal
  - Diagnostic trouble code (DTC) of TCM
- Data from BCM
  - Brake fluid level switch signal (brake warning light control signal)
  - Parking brake switch signal (brake warning light control signal)
  - Driver side seat belt buckle switch signal (Seat belt warning light control signal)
  - Charging system warning lamp signal (Charge warning light control signal)
  - Engine oil pressure switch signal (Oil pressure warning light control signal)
  - Lighting switch signal (illumination indicator light control signal)
  - Door switch signal (door ajar warning lamp)
  - HI beam indicator control signal
  - Diagnostic trouble code (DTC) of BCM
- Data from 4WD control module (if equipped)
  - 4WD shift position indicator lamp control signal
  - Diagnostic trouble code (DTC) of 4WD control module

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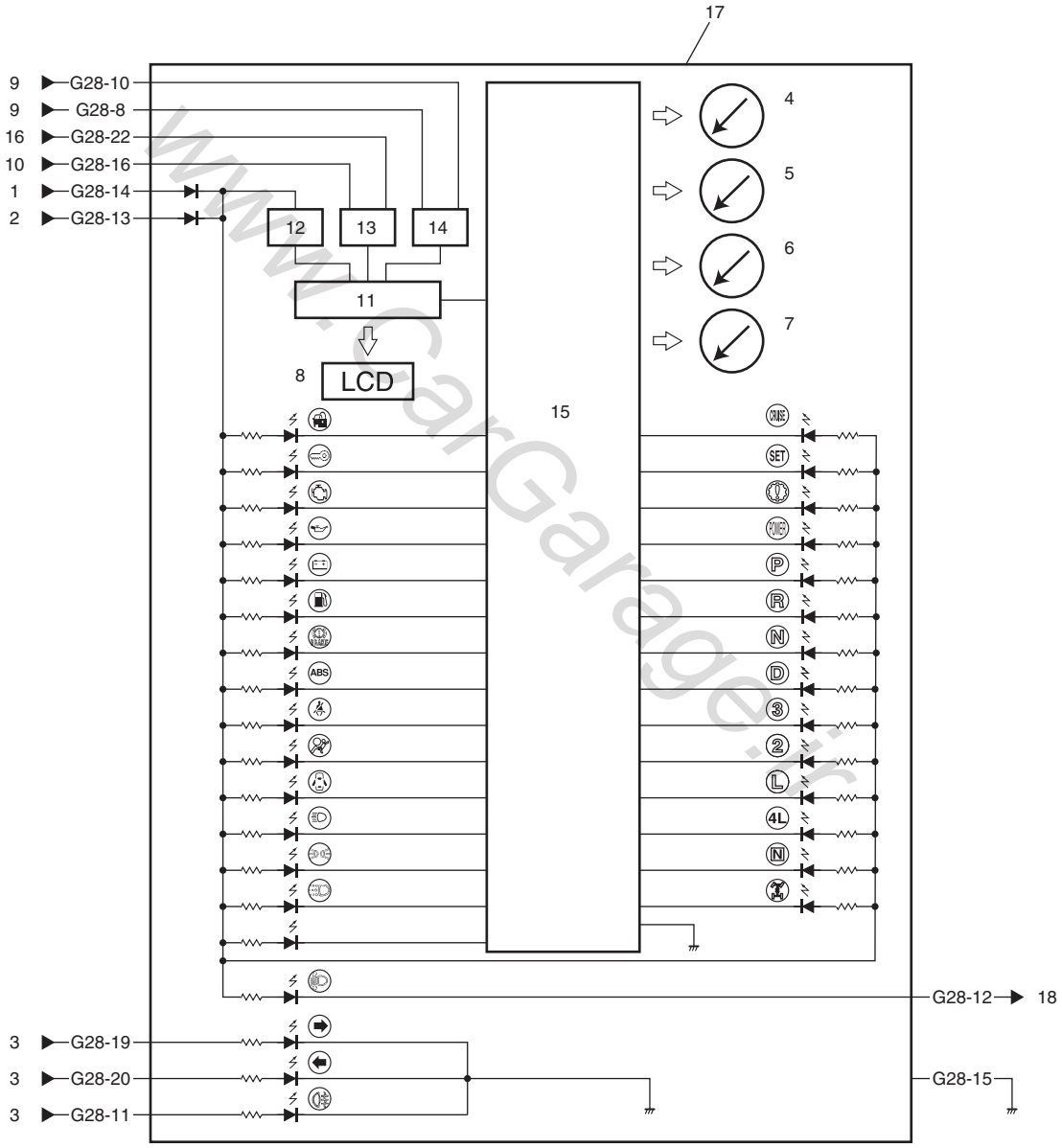
- Data from ABS control module (if equipped)
  - ABS warning lamp control signal
  - EBD warning light control signal (brake warning light control signal)
  - Diagnostic trouble code (DTC) of ABS hydraulic unit/control module
- Data from keyless start control module (if equipped)
  - Key indicator lamp control signal

Schematic and Routing Diagram

Combination Meter Circuit Diagram

S5JB0A9302001



I5JB0A930001-04

1. Main fuse	6. Fuel meter	11. CPU	16. Illumination cancel switch (if equipped)
2. METER fuse	7. ECT meter	12. Power supply	17. Combination meter
3. Combination switch	8. ODO-TRIP	13. Interface circuit	18. Headlight auto leveling control module
4. Tacho meter	9. Junction connector	14. CAN driver	
5. Speedometer	10. SDM	15. Stepper motor and LED output driver	

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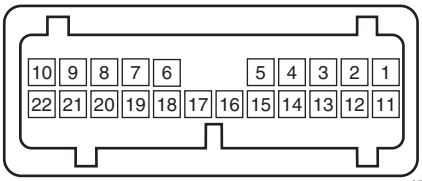
Terminal arrangement of coupler viewed from combination meter side



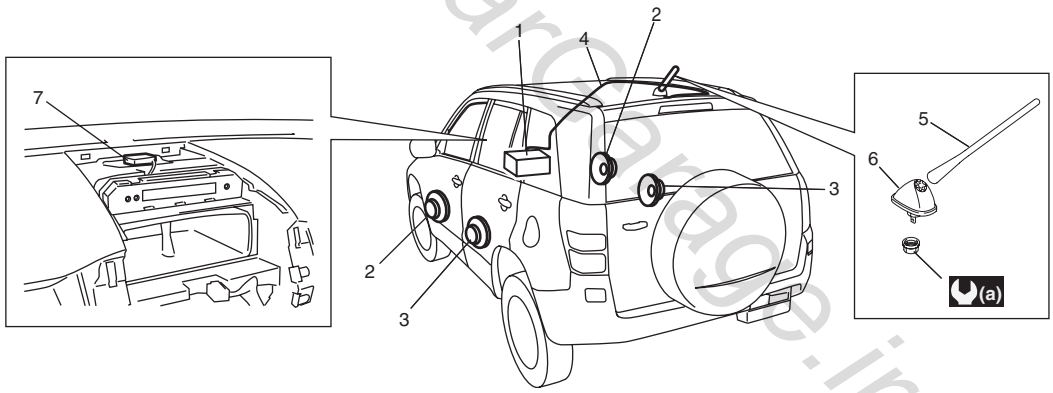
I5JB0A930002-01

Terminal	Circuit	Terminal	Circuit
G28-1	—	G28-12	To headlight auto leveling control module
G28-2	—	G28-13	Power source
G28-3	—	G28-14	Backup power source
G28-4	—	G28-15	GND
G28-5	—	G28-16	To SDM (Air bag warning lamp signal)
G28-6	—	G28-17	—
G28-7	—	G28-18	—
G28-8	CAN communication line (Active Low Signal)	G28-19	To turn signal light switch (turn L)
G28-9	—	G28-20	To turn signal light switch (turn R)
G28-10	CAN communication line (Active High Signal)	G28-21	—
G28-11	To rear fog light switch	G28-22	To illumination cancel switch

Component Location

Audio System Component Location

S5JB0A9303001



I5JB0A930003-01

1. Radio or navigation assembly	4. Antenna feeder	7. GPS antenna (if equipped)
2. Front speaker	5. Antenna	(a) : 10 N·m (1.0 kgf-m, 7.5 lb-ft)
3. Rear speaker	6. Antenna base	

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Diagnostic Information and Procedures

Speedometer Symptom Diagnosis

S5JB0A9304022

Condition	Possible cause	Correction / Reference Item
Speedometer shows no operation or incorrect operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Rear wheel speed sensor or sensor ring faulty	*Check rear wheel speed sensor or sensor ring referring to "Rear Wheel Speed Sensor Inspection: in Section 4E" or "Rear Wheel Encoder On-Vehicle Inspection: in Section 4E".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*

Tacho meter Symptom Diagnosis

S5JB0A9304023

Condition	Possible cause	Correction / Reference Item
Tacho meter shows no operation or incorrect operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*

Engine Coolant Temperature (ECT) Meter Symptom Diagnosis

S5JB0A9304024

Condition	Possible cause	Correction / Reference Item
Engine coolant temperature (ECT) meter shows no operation or incorrect operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	ECT sensor faulty	*Check ECT sensor referring to "Engine Coolant Temperature (ECT) Sensor Inspection: in Section 1C".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*

Fuel Meter Symptom Diagnosis

S5JB0A9304025

Condition	Possible cause	Correction / Reference Item
Fuel meter shows no operation or incorrect operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Fuel level sensor faulty	*Check fuel level sensor referring to "Fuel Level Sensor Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*

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Low Fuel Warning Light Symptom Diagnosis

S5JB0A9304026

NOTE

Confirm that fuel meter is in good condition before referring to the following possible causes.

- **When fuel level meter circuit is shorted to ground circuit, fuel level meter indicates empty even if fuel tank does not empty.**
- **The low fuel warning light comes ON when fuel level is lower than specification below.**

Low fuel warning light operation:

Low fuel warning light operation:	Fuel amount:	Resistance of fuel level sensor:
ON	Approx. 8.3 liter (G16 engine model) Approx. 9.9 liter (J20 engine model)	250.8 – 255.8 Ω

Condition	Possible cause	Correction / Reference Item
Low fuel warning light does not come ON when fuel level is lower than specification	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Fuel level sensor faulty	*Check fuel level sensor referring to "Fuel Level Sensor Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*
Low fuel warning light comes ON steady	Low fuel	*Refill fuel.*
	Data (information) can not be received by CAN communication	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Fuel level sensor faulty	*Check fuel level sensor referring to "Fuel Level Sensor Inspection: ".*
	Combination meter faulty	*Replace combination meter.*
	ECM faulty	*Replace after making sure that none of above parts is faulty.*

Oil Pressure Warning Light Symptom Diagnosis

S5JB0A9304027

Condition	Possible cause	Correction / Reference Item
Oil pressure warning light does not light up when ignition switch is turned to ON position at engine off	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Oil pressure switch faulty	*Check oil pressure switch referring to "Oil Pressure Switch Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Oil pressure warning light stays ON	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Oil pressure switch faulty	*Check oil pressure switch referring to "Oil Pressure Switch Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

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Brake and Parking Brake Warning Light Symptom Diagnosis

S5JB0A9304028

Condition	Possible cause	Correction / Reference Item
Brake warning light does not light up when brake fluid level is low or parking brake is pulled up or for 5 seconds after turning ON ignition switch (with ABS vehicle only)	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Brake fluid level switch faulty	*Check brake fluid level switch referring to "Brake Fluid Level Switch Inspection: ".*
	Parking brake switch faulty	*Check parking brake switch referring to "Parking Brake Switch Inspection: ".*
	ABS system faulty	*Refer to "ABS Check: in Section 4E".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Brake warning light stays ON	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Brake fluid level switch faulty	*Check brake fluid level switch referring to "Brake Fluid Level Switch Inspection: ".*
	Parking brake switch faulty	*Check parking brake switch referring to "Parking Brake Switch Inspection: ".*
	EBD system faulty	*Refer to "EBD Warning Lamp (Brake Warning Lamp) Check: in Section 4E".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Seat Belt Reminder Light Symptom Diagnosis (If Equipped)

S5JB0A9304029

NOTE

Seat belt reminder can be canceled by scan tool or specified procedure. If neither warning buzzer nor seat belt reminder light operates, first confirm that seat belt reminder is not selected referring to "Scan Tool Data: in Section 10B". For further details, refer to "Seat Belt Construction: in Section 8A".

Condition	Possible cause	Correction / Reference Item
Seat belt reminder light does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Seat belt switch faulty	*Check seat belt switch referring to "Front Seat Belt Inspection: in Section 8A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Seat belt reminder light stays ON	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Seat belt switch faulty	*Check seat belt switch referring to "Front Seat Belt Inspection: in Section 8A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

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Illumination Indicator Symptom Diagnosis

S5JB0A9304031

Condition	Possible cause	Correction / Reference Item
Illumination indicator does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Lighting switch faulty	*Check lighting switch referring to "Headlight Switch (in Lighting Switch) Inspection: in Section 9B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Illumination indicator stays ON	Lighting switch faulty	*Check lighting switch referring to "Headlight Switch (in Lighting Switch) Inspection: in Section 9B".*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Headlight Auto Leveling Indicator Symptom Diagnosis (If Equipped)

S5JB0A9304032

Condition	Possible cause	Correction / Reference Item
Headlight auto leveling indicator does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Headlight auto leveling control module faulty	*Check headlight auto leveling control module referring to "Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System): in Section 9B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
Headlight auto leveling indicator stays ON	Headlight auto leveling control module faulty	*Check headlight auto leveling control module referring to "Inspection of Headlight Leveling Control Module and Its Circuit (Vehicle Equipped With Auto Leveling Headlight System): in Section 9B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*

A/T Power Mode Indicator Symptom Diagnosis (A/T Model Only)

S5JB0A9304033

Condition	Possible cause	Correction / Reference Item
A/T power mode indicator does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	A/T power mode switch faulty	*Check mode select switch referring to "Mode Select Switch Inspection: in Section 5A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

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Condition	Possible cause	Correction / Reference Item
A/T power mode indicator stays ON	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	A/T power mode switch faulty	*Check mode select switch referring to "Mode Select Switch Inspection: in Section 5A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

A/T Shift Position Indicator (A/T Model Only) Symptom Diagnosis

S5JB0A9304034

Condition	Possible cause	Correction / Reference Item
All A/T shift position indicator does not light up	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check TCM for DTC referring to "DTC Check: in Section 5A".*
	Transmission range sensor (shift switch) faulty	*Check transmission range sensor referring to "Transmission Range Sensor Inspection and Adjustment: in Section 5A".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	TCM faulty	*Replace after making sure that none of above parts is faulty.*

Charge Warning Light Symptom Diagnosis

S5JB0A9304035

Condition	Possible cause	Correction / Reference Item
Charge warning light does not come ON	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Charge warning light stay ON	Charging system faulty	*Check charging system.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Main Beam (High Beam) Indicator Symptom Diagnosis

S5JB0A9304036

Condition	Possible cause	Correction / Reference Item
Main beam (high beam) indicator does not come ON	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Relay faulty	*Replace relay*
	Combination switch faulty	*Check combination switch referring to "Headlight Switch (in Lighting Switch) Inspection: in Section 9B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

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Condition	Possible cause	Correction / Reference Item
Main beam (high beam) indicator stay ON	Data (information) can not be received by CAN communication	*Check BCM for DTC referring to "DTC Check: in Section 10B".*
	Combination switch faulty	*Check combination switch referring to "Headlight Switch (in Lighting Switch) Inspection: in Section 9B".*
	Wiring or ground faulty	*Repair circuit.*
	Combination meter faulty	*Replace combination meter.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Warning Buzzer Circuit Symptom Diagnosis

S5JB0A9304012

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Warning buzzer shows no sounding	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Driver side door switch faulty	*Check driver side door switch referring to "Door Switch (Front / Rear / Rear End Door) Inspection: ".*
	Lighting switch faulty	*Check lighting switch referring to "Headlight Switch (in Lighting Switch) Inspection: in Section 9B".*
	Key remainder switch faulty	*Check key remainder switch referring to "Ignition Switch Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Cigarette Lighter Symptom Diagnosis (If Equipped)

S5JB0A9304013

Condition	Possible cause	Correction / Reference Item
Cigarette lighter shows no operation	Circuit fuse blown	*Replace fuse and check for short circuit.*
	ACC relay faulty	*Replace relay*
	Cigarette lighter faulty	*Check cigarette lighter.*
	Ignition switch faulty	*Check ignition switch referring to "Ignition Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*

Horn Symptom Diagnosis

S5JB0A9304014

Condition	Possible cause	Correction / Reference Item
Horn does not operate	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Horn switch faulty	*Check horn switch.*
	Horn relay faulty	*Check horn relay.*
	Wiring or grounding faulty	*Repair circuit.*
	Horn faulty	*Replace horn.*

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Information Display Symptom Diagnosis (If Equipped)

S5JB0A9304015

NOTE

This thermometer indicates the ambient temperature in back of front bumper member. Under any one of the following listed conditions, however, even when the ambient temperature goes up, the thermometer display does not rise so as to correct the rise of the ambient temperature caused by the radiant heat of the engine. When the ambient temperature drops, the thermometer reading follows the change in the temperature.
Be sure to bear this in mind when diagnosing trouble.

- **The vehicle speed is 30 km/h (18 mph) or lower.**
- **VSS signal is faulty.**
- **The ignition switch is turned on again within 2 hours.**

Condition	Possible cause	Correction / Reference Item
No displaying of information display	Circuit fuse Blown	*Replace fuse and check for short circuit.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Information display unit faulty	*Replace unit.*
Incorrect thermometer display	Outside air temperature sensor faulty	*Check outside air temperature sensor referring to "Outside Air Temperature Sensor Inspection (If Equipped): ".*
	Vehicle speed signal faulty	*Check ECM for DTC referring to "DTC Check: in Section 1A".*
	Wiring and/or grounding faulty	*Repair as necessary.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Display does not change at –30 °C	Outside air temperature is –30 °C (–22 °F) or less	—
	Outside air temperature sensor faulty	*Check outside air temperature sensor referring to "Outside Air Temperature Sensor Inspection (If Equipped): ".*
	Outside air temperature sensor wiring circuit open circuit and/or short to power circuit	*Repair as necessary.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Display does not change at 50 °C	Outside air temperature is 50 °C (122 °F) or more	—
	Outside air temperature sensor faulty	*Check outside air temperature sensor referring to "Outside Air Temperature Sensor Inspection (If Equipped): ".*
	Outside air temperature sensor wiring circuit short to ground circuit	*Repair as necessary.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Clock Symptom Diagnosis (If Equipped)

S5JB0A9304020

Condition	Possible cause	Correction / Reference Item
No displaying of clock	Circuit fuse Blown	*Replace fuse and check for short circuit.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Clock unit faulty	*Replace unit.*

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Audio System Symptom Diagnosis (If Equipped)

S5JB0A9304016

Radio

NOTE

Electronic part / system with undiagnosed problem may cause electromagnetic interference. Electromagnetic interference condition may have poor radio reception. To test for presence of electromagnetic interference in part / system, perform the following procedures.

1. **Turn ignition switch to OFF.**
2. **Systematically disconnect the electronic part / system connector(s) one at a time.**
3. **Turn ignition switch to ON.**
4. **Check any improvement in radio reception.**

Condition	Possible cause	Correction / Reference Item
Poor radio reception	Out of service area (Poor location)	—
	Antenna faulty	*Replace antenna.*
	Antenna amplifier faulty	*Replace antenna amplifier.*
	Electrical part / system faulty	*Repair or replace electrical part / system referring to after-mentioned NOTE.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*
Radio does not operate and speaker does not sound	Circuit fuse(s) blown	*Replace fuse(s) and check for short circuit.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*
Radio does not operate, but speaker sound	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*
Radio is operative, but all speakers does not sound	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*
Individual speaker is noisy or inoperative	Wiring and/or grounding faulty	*Repair as necessary.*
	Speaker faulty	*Replace speaker.*
	Radio assembly faulty	*Replace radio assembly.*
Sound quality is poor	Out of service area (Poor location)	—
	Speaker installed incorrectly	*Install correctly.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Speaker faulty	*Replace speaker.*
	Radio assembly faulty	*Replace radio assembly.*

CD Player

Condition	Possible cause	Correction / Reference Item
CD-ROM does not insert	Another CD-ROM already inserted	*Eject CD-ROM.*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Extraneous material come to be mixed CD player	*Clear extraneous material from CD player or replace radio assembly.*
	Radio assembly faulty	*Replace radio assembly.*
CD-ROM does not eject	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Extraneous material come to be mixed in CD player	*Clear extraneous material from CD player or replace radio assembly.*
	Radio assembly faulty	*Replace radio assembly.*
CD player does not load CD-ROM	CD-ROM faulty	—
	CD-ROM inserted with incorrect side up	*Insert correctly.*
	Temperature in cabin is too hot	—
	Water droplets form on internal lens	*Dry about 1 hour with power on.*
	Radio assembly faulty	*Replace radio assembly.*

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Condition	Possible cause	Correction / Reference Item
Sound skips or is noisy	CD-ROM faulty	—
	Driving vibration	—
	Water droplets form on internal lens	*Dry about 1 hour with power on.*
	Radio assembly installed incorrectly	*Install correctly.*
	Radio assembly faulty	*Replace radio assembly.*
CD player is operative, but all speakers does not sound	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*
Individual speaker is noisy or inoperative	Wiring and/or grounding faulty	*Repair as necessary.*
	Speaker faulty	*Replace speaker.*
	Radio assembly faulty	*Replace radio assembly.*
Sound quality or volume is poor	CD-ROM faulty	—
	Wiring and/or grounding faulty	*Repair as necessary.*
	Speaker installed incorrectly	*Install correctly.*
	Speaker faulty	*Replace speaker.*

Remote Audio Control Switch Symptom Diagnosis (If Equipped)

S5JB0A9304017

Condition	Possible cause	Correction / Reference Item
Audio system is operative, but remote control switch does not control audio system	Remote audio control switch faulty	*Check remote audio control switch referring to "Remote Audio Control Switch Inspection: ".*
	Contact coil faulty	*Replace contact coil.*
	Wiring and/or grounding faulty	*Repair as necessary.*
	Radio assembly faulty	*Replace radio assembly.*

Navigation Symptom Diagnosis (If Equipped)

S5JB0A9304021

Condition	Possible cause	Correction / Reference Item
No displaying of navigation	Circuit fuse Blown	*Replace fuse and check for short circuit.*
	Wiring and/or grounding faulty	*Repair circuit.*
	Navigation unit faulty	*Replace unit.*

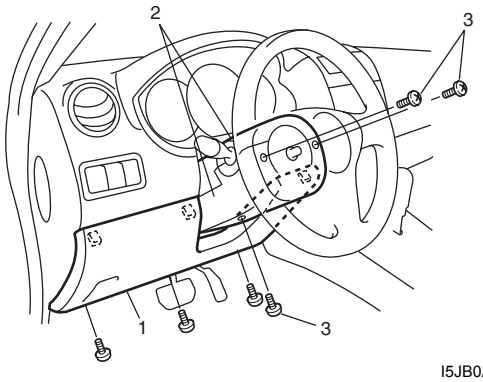
Repair Instructions

Ignition Switch Removal and Installation

S5JB0A9306001

Removal

1) Disconnect negative cable at battery.
2) Confirm that ignition key is removed.
3) Remove steering column hole cover (1).
4) Turn steering wheel to remove steering column cover screws (3) and then remove steering column covers (2).



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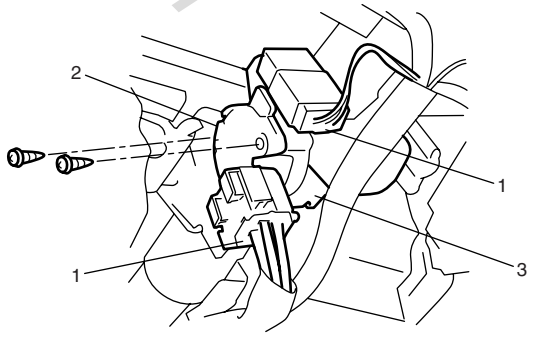
5) Disconnect couplers (1) from ignition switch (2).
6) Remove ignition switch (2) from key cylinder (3).



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Installation

Reverse removal procedure.

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Ignition Switch Inspection

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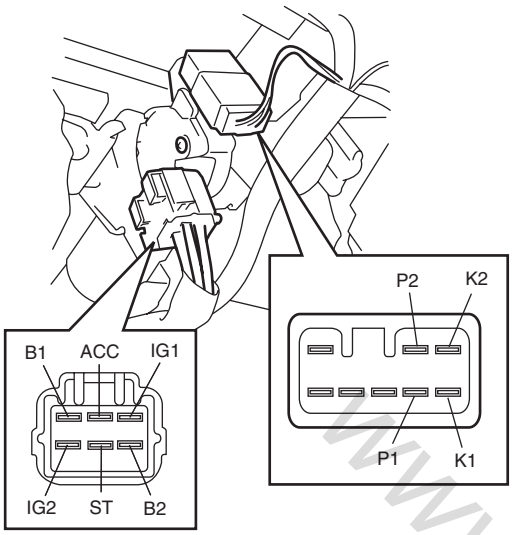
- Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



Key \ Terminal	Position	B1	B2	ACC	IG1	IG2	ST	K1	K2
OUT	LOCK	○							
		○							
IN	ACC	○		○					
	ON	○		○	○			○	○
			○			○			
	START	○		○					
			○				○		

Ignition knob switch (with keyless start system only) \ Terminal	P1	P2
OFF (ignition knob switch released)		
ON (ignition knob switch pushsed)	○	○

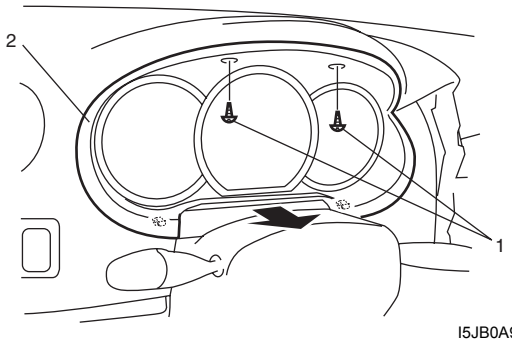
I5JB0A930004-01

Combination Meter Removal and Installation

S5JB0A9306003

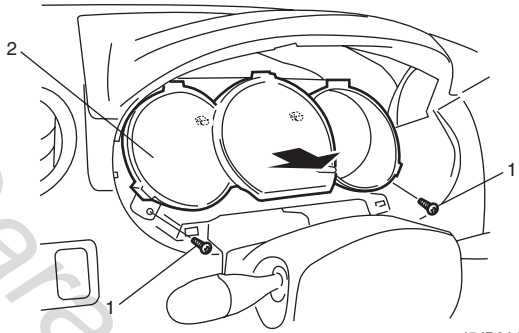
Removal

1) Disconnect negative (–) cable at battery.
2) Remove screws (1) fastening combination meter cluster panel.
3) Remove combination meter cluster panel (2) pulling it in arrow direction shown in figure.



I5JB0A930005-02

4) Remove screws (1) fastening combination meter.
5) Remove combination meter (2) pulling it arrow direction as shown.



I5JB0A930006-02

Installation

Reverse removal procedure.

Fuel Level Sensor Removal and Installation

S5JB0A9306004

Removal

Remove fuel pump assembly referring to “Fuel Pump Assembly Removal and Installation: in Section 1G”.

Installation

Install fuel pump assembly referring to “Fuel Pump Assembly Removal and Installation: in Section 1G”.

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Fuel Level Sensor Inspection

S5JB0A9306005

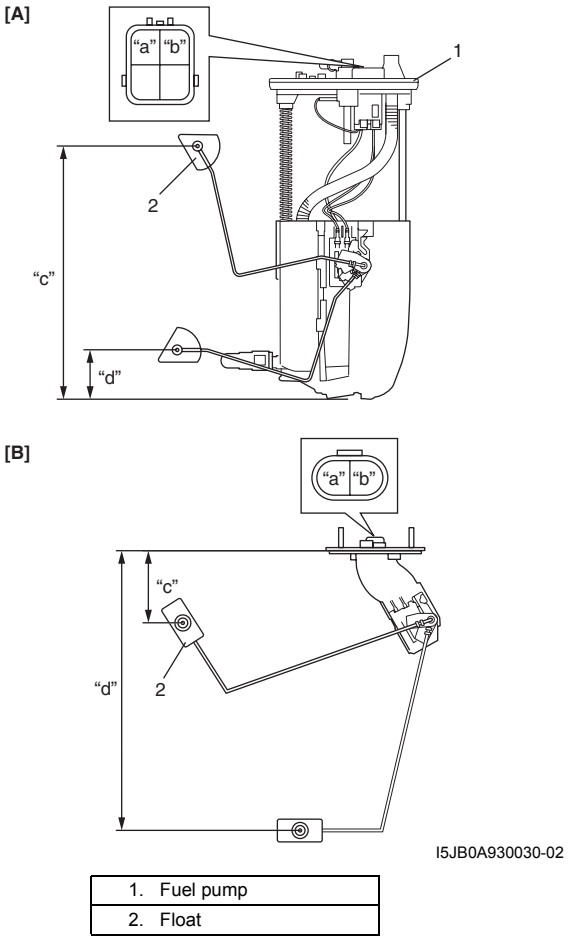
- Check that resistance between terminals “a” and “b” of fuel level sensor changes with change of float position.
- Check resistance between terminals “a” and “b” at each float position in the following.
  If the measured value is out of specification, replace fuel pump and/or sub fuel level sensor.

Main fuel level sensor [A] specifications

	Float position		Resistance (Ω)
M16 engine model	Full Upper “C”	193.7 mm (7.626 in.)	19.0 – 21.0
	Full Lower “D”	42.2 mm (1.661 in.)	111.9 – 115.3
J20 engine model	Full Upper “C”	196.8 mm (7.748 in.)	19.0 – 21.0
	Full Lower “D”	34.9 mm (1.374 in.)	129.0 – 132.4

Sub fuel level sensor [B] specifications

	Float position		Resistance (Ω)
M16 engine model	Full Upper “C”	48.1 mm (1.894 in.)	19.0 – 21.0
	Full Lower “D”	252.8 mm (9.953 in.)	164.7 – 168.1
J20 engine model	Full Upper “C”	64.1 mm (2.524 in.)	19.0 – 21.0
	Full Lower “D”	244.8 mm (9.638 in.)	147.6 – 151.0



I5JB0A930030-02

1.	Fuel pump
2.	Float

Oil Pressure Switch Removal and Installation

S5JB0A9306006

For removal and installation, refer to “Oil Pressure Check: For M16A Engine with VVT in Section 1E” or “Oil Pressure Check: For J20 Engine in Section 1E”.

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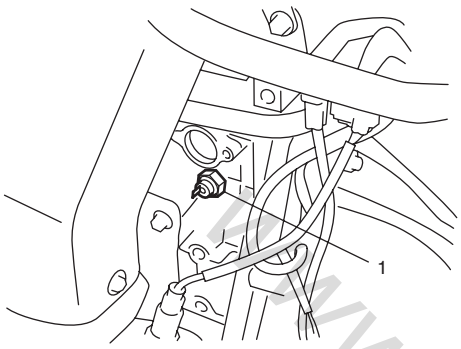
Oil Pressure Switch Inspection

S5JB0A9306007

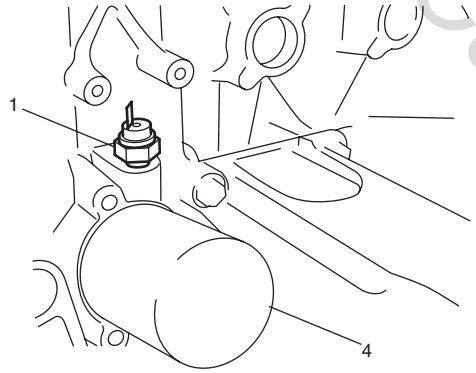
1) Disconnect oil pressure switch (1) lead wire.
2) Check for continuity between oil pressure switch terminal (2) and cylinder block (3) as shown. If check result is not as specified, replace oil pressure switch (1).

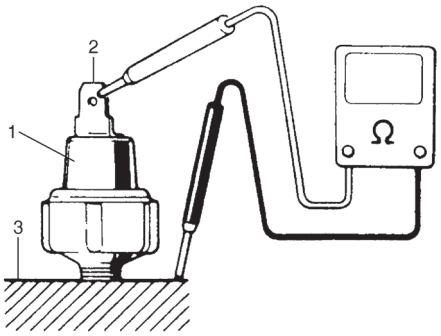
Oil pressure sensor specification
During engine running: No continuity
At engine stop: Continuity

[A]



[B]





I5JB0A930007-02

[A]: J20 engine model	4. Engine oil filter
[B]: M16 engine model	

Engine Coolant Temperature (ECT) Sensor Inspection

S5JB0A9306010

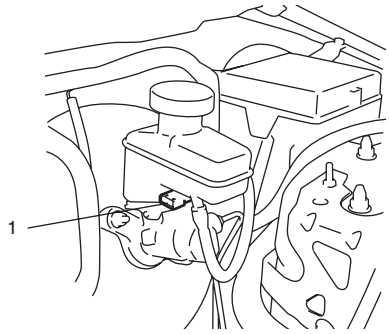
Check engine coolant temperature sensor for resistance, refer to “Engine Coolant Temperature (ECT) Sensor Inspection: in Section 1C”.

Brake Fluid Level Switch Inspection

S5JB0A9306011

Check for continuity between terminals of brake fluid level switch coupler (1). If found defective, replace switch.

Brake fluid level switch specification
OFF position (float up): No continuity
ON position (float down): Continuity



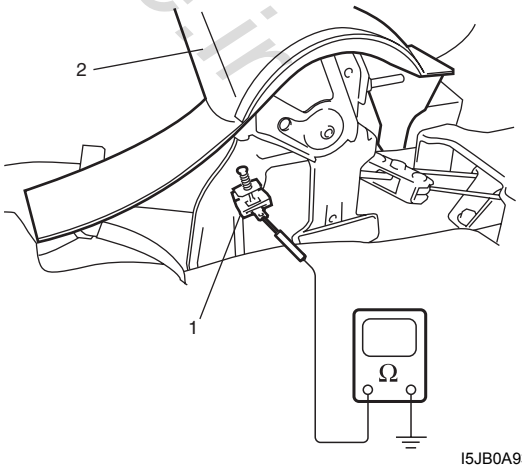
I5JB0A930008-01

Parking Brake Switch Inspection

S5JB0A9306012

Check for continuity between parking brake switch terminal and body ground as shown in figure. If found defective, replace switch.

Parking brake switch specification
OFF position (parking brake released): No continuity
ON position (parking brake lever pulled up): Continuity



I5JB0A930009-01

1. Parking brake switch
2. Parking brake lever

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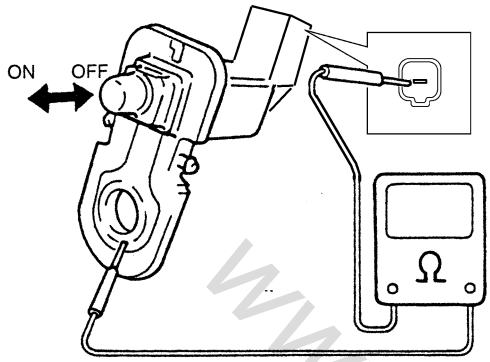
Door Switch (Front / Rear / Rear End Door) Inspection

S5JB0A9306013

Remove door switch from body and check switch for continuity. If found defective, replace switch.

Door switch (front / rear / rear end door) specification

OFF position (Door closed): No continuity
ON position (Door open): Continuity



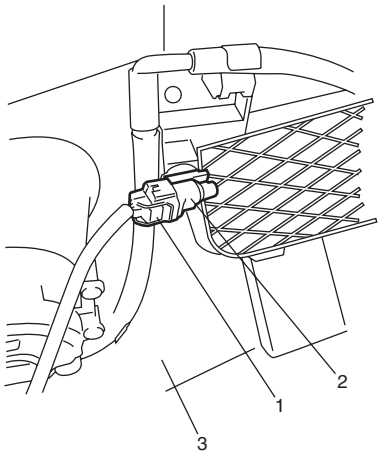
I3RH0A930004-01

Outside Air Temperature Sensor Removal and Installation (If Equipped)

S5JB0A9306015

Removal

1) Disconnect negative (–) cable at battery.
2) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
3) Disconnect connector (1) from outside air temperature sensor (2).
4) Remove outside air temperature sensor (2) from front bumper (3).



I5JB0A930010-01

Installation

Reverse removal procedure for installation.

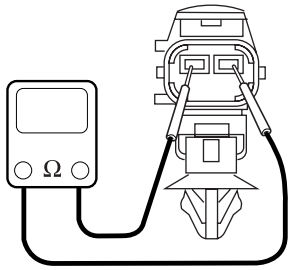
Outside Air Temperature Sensor Inspection (If Equipped)

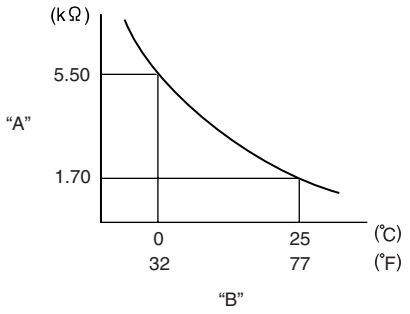
S5JB0A9306016

Measure resistance of outside air temperature sensor using an ohmmeter.
If resistance is out of specification, replace outside air temperature sensor.

Outside air temperature sensor resistance

1.62 kΩ – 1.78 kΩ at 25 °C (77 °F)





I4RS0A930017-01

“A”:	Resistance
“B”:	Temperature

Instrument Panel Removal and Installation

S5JB0A9306017

⚠ WARNING

Refer to “Air Bag Warning: in Section 00” before starting service work.

⚠ CAUTION

Position heat control mode into FOOT MODE before removing instrument panel to avoid the damage to air flow control door.

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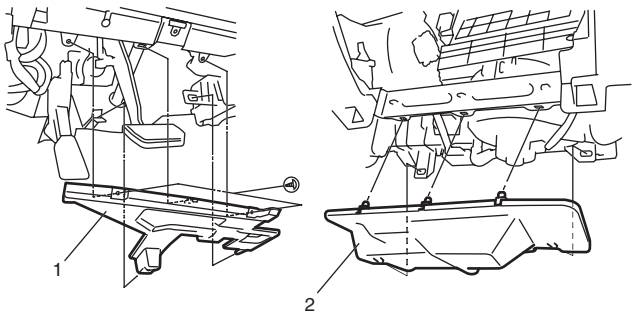
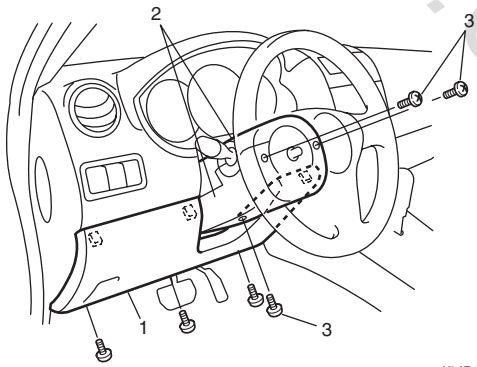
Removal

1) Disconnect negative cable at battery.
2) Remove driver side instrument panel under cover (1) and passenger side instrument panel under cover (2).



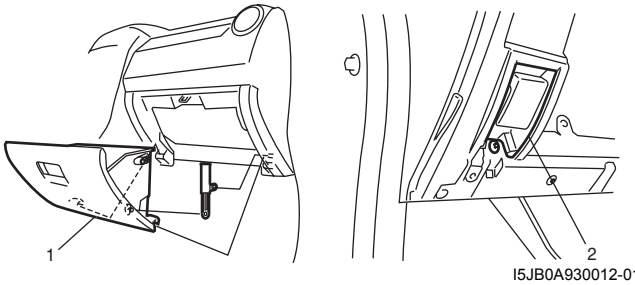
I5JB0A930011-01

3) Disable air bag system referring to “Disabling Air Bag System: in Section 8B”.
4) Remove steering column hole cover (1).
5) Turn steering wheel to remove steering column cover screws (3).
6) Remove steering column covers (2).



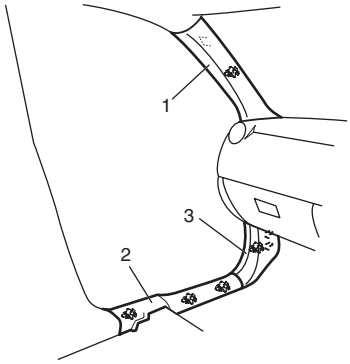
I5JB0A940020-01

7) Remove glove box (1).
8) Remove hood latch release lever (2).



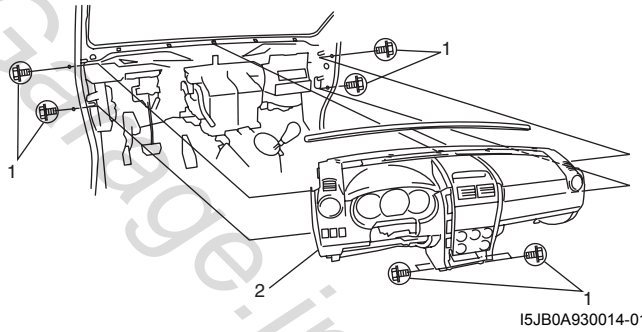
I5JB0A930012-01

9) Remove console box referring to “Console Box Components: in Section 9H”.
10) Remove front pillar trims (1) front side sill scuffs (2) and dash side trims (3).



I5JB0A930013-01

11) Disconnect instrument panel harness connectors, inside air temperature sensor duct and antenna cable instrument panel removal.
12) Remove steering column mounting referring to “Steering Column Assembly Removal and Installation: in Section 6B”.
13) Remove instrument panel ground wire.
14) Remove instrument panel mounting bolts (1).
15) Remove instrument panel (2) with steering support member and instrument panel harness.



I5JB0A930014-01

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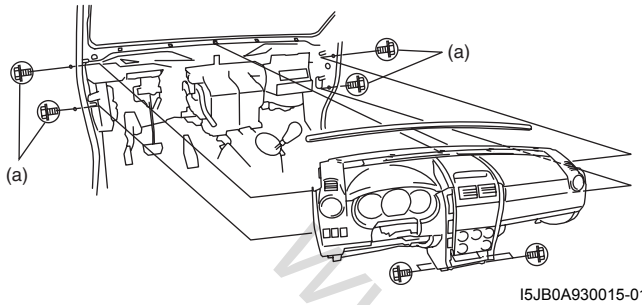
Installation
Reverse removal procedure noting the following.

- When installing each part, be careful not to catch any cable or wiring harness.
- Tighten instrument panel mounting bolts to specified torque

Tightening torque
Instrument panel mounting bolt (a): 23 N·m (2.3 kgf-m, 17.0 lb-ft)



I5JB0A930015-01

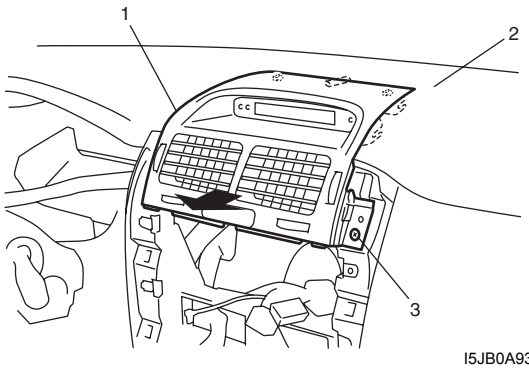
- Tighten steering column mounting nuts referring to "Steering Column Assembly Removal and Installation: in Section 6B".
- Enable air bag system referring to "Enabling Air Bag System: in Section 8B".

Information Display (Clock) Removal and Installation

S5JB0A9306018

Removal

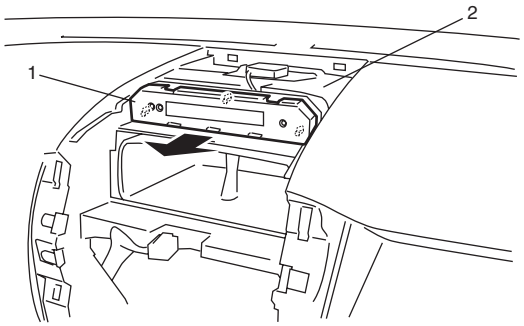
1) Remove audio unit referring to "Audio Unit Removal and Installation: ".
2) Remove center ventilation louver (1) from instrument panel (2) pulling it arrow direction as shown.
3) Disconnect hazard switch connector.



I5JB0A930016-01

3. screw

4) Remove information display (clock) (1) from instrument panel (2) pulling it in arrow direction shown in figure.
5) Disconnect information display (clock) coupler.



I5JB0A930017-01

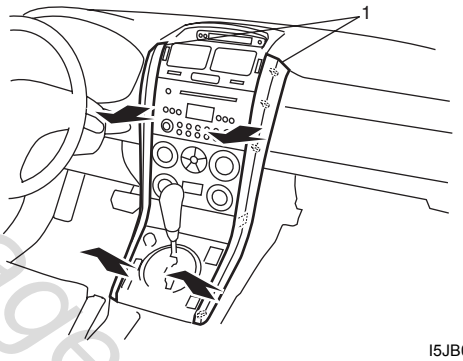
Installation
Reverse removal procedure.

Audio Unit Removal and Installation

S5JB0A9306019

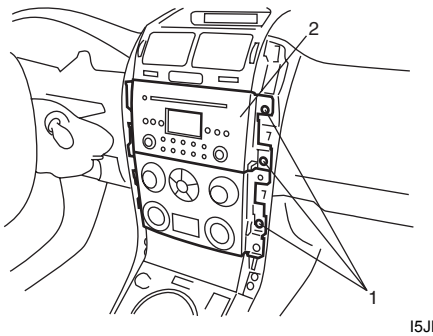
Removal

1) Disconnect negative (–) cable at battery.
2) Remove instrument panel center garnish trims (1).



I5JB0A930018-03

3) Remove 6 mounting screws (1).
4) Disconnect electrical connectors from audio unit and HVAC control module.
5) Remove audio unit (2) with HVAC control module from instrument panel.



I5JB0A930019-04

6) Remove audio unit from HVAC control module.

Installation
Reverse removal procedure.

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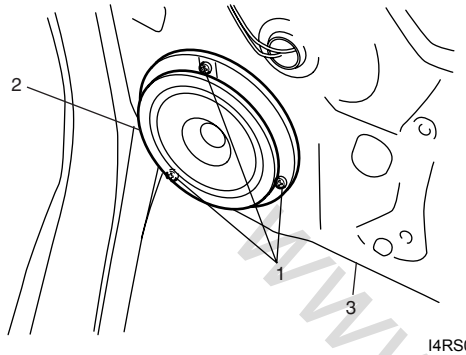
Front Speaker Removal and Installation

S5JB0A9306020

Removal

1) Remove door trim referring to Step 1) to 3) of “Front Door Glass Removal and Installation: in Section 9E”.
2) Remove 3 front speaker mounting screws (1).
3) Remove front speaker (2) from front door (3).
4) Disconnect front speaker coupler from front speaker (2).



I4RS0A930027-01

Installation

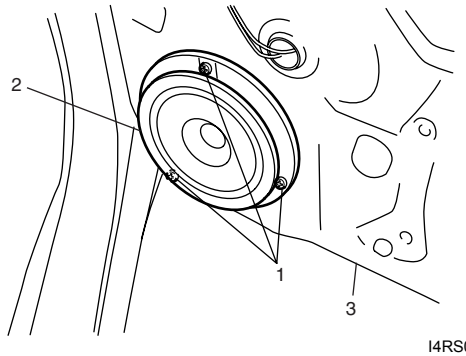
Reverse removal procedure.

Rear Speaker Removal and Installation (5 Door Model)

S5JB0A9306021

Removal

1) Remove door trim referring to Step 1) to 3) of “Rear Door Glass Removal and Installation: in Section 9E”.
2) Remove 3 rear speaker mounting screws (1).
3) Remove rear speaker (2) from rear door (3).
4) Disconnect rear speaker coupler from rear speaker (2).



I4RS0A930027-01

Installation

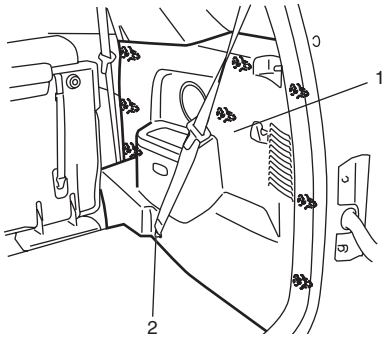
Reverse removal procedure.

Rear Speaker Removal and Installation (3 Door Model)

S5JB0A9306027

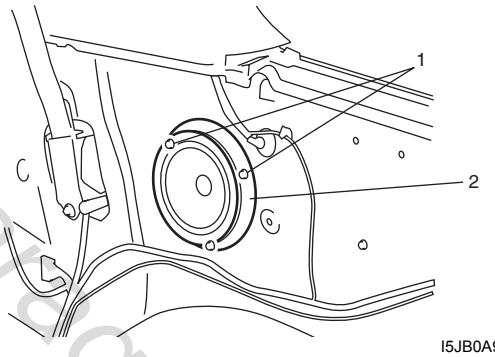
Removal

1) Remove right and left lower anchor bolts (2) from body panel.
2) Remove quarter lower trim (1).



I5JB0A930020-02

3) Remove 3 rear speaker mounting screws (1) and rear speaker (2) from quarter panel.
4) Disconnect rear speaker coupler from rear speaker (2).



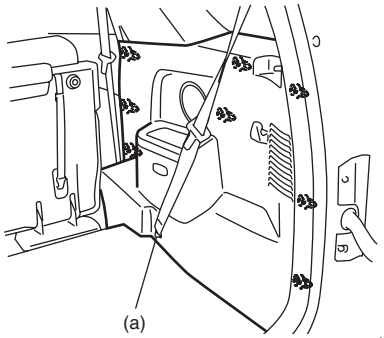
I5JB0A930021-02

Installation

Reverse removal procedure noting the following.

- Tighten lower anchor bolts to specified torque.

Tightening torque
Lower anchor bolt (a): 35 N·m (3.5 kgf-m, 25.5 lb-ft)



I5JB0A930022-02

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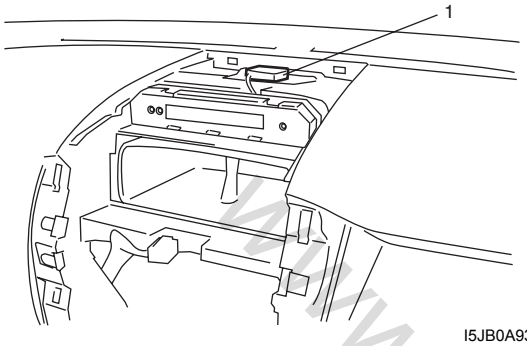
GPS Antenna Removal and Installation (If Equipped)

S5JB0A9306028

Removal

1) Remove center ventilation louver referring to step 1) and 2) of “Information Display (Clock) Removal and Installation: ”.
2) Disconnect GPS antenna connector from navigation unit referring to “Audio Unit Removal and Installation: ”.
3) Remove GPS antenna (1).



I5JB0A930023-01

Installation

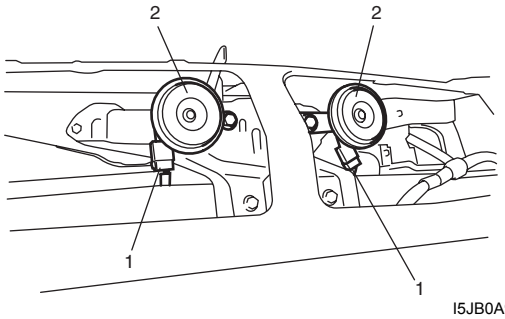
Reverse removal procedure.

Horn Removal and Installation

S5JB0A9306022

Removal

1) Disconnect negative (–) cable at battery.
2) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
3) Disconnect horn connector (1).
4) Remove horn (2).



I5JB0A930029-01

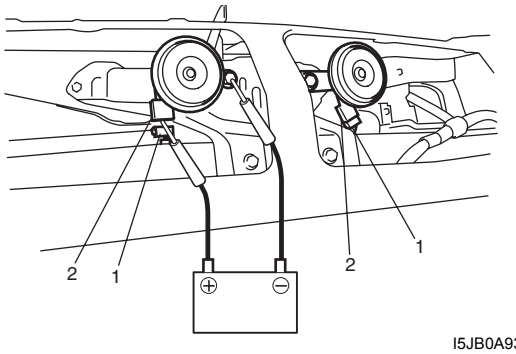
Installation

Reverse removal procedure for installation.

Horn Inspection

S5JB0A9306023

1) Disconnect negative (–) cable at battery.
2) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
3) Disconnect horn connector (1).
4) Connect battery positive (+) to terminal of horn connector (2) and negative (–) terminal to body ground.
   If horn is not sounding, replace horn.

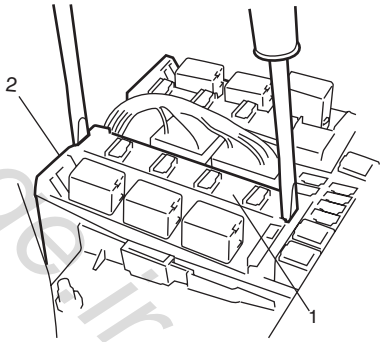


I5JB0A930024-01

Horn Relay Inspection

S5JB0A9306024

1) Disconnect negative (–) cable at battery.
2) Remove horn relay (included in integration relay) (1) from main fuse box (2).



I5JB0A950031-01

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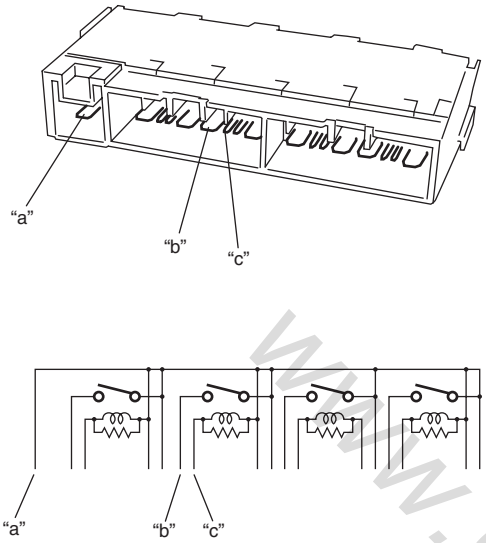
3) Check that there is no continuity between terminal “a” and “b”.
   If there is continuity, replace relay.
4) Check that there is continuity between terminals “a” and “b” when a 12 V battery is connected to terminal “a” and “c”.
   If malfunction is found, replace integration relay.



I5JB0A930025-02

Antenna Base Removal and Installation

S5JB0A9306025

Removal

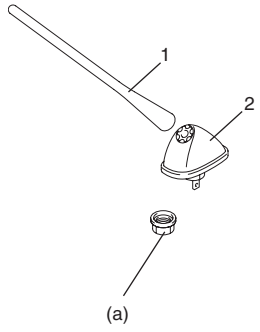
1) Remove antenna (1) from antenna base (2).
2) Remove head lining referring to “Head Lining Removal and Installation: in Section 9H”.
3) Disconnect antenna feeder (3) from antenna base (2).
4) Remove antenna base (2) from vehicle.

Installation

Reverse removal procedure noting the following.

- Tighten antenna base mounting nut to specified torque.

  Tightening torque
  Antenna base mounting nut (a): 10 N·m (1.0 kgf-m, 7.5 lb-ft)



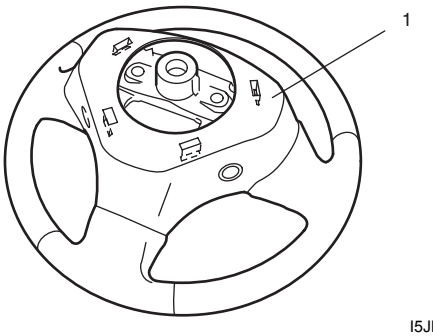
I4RH01930009-01

Remote Audio Control Switch Removal and Installation

S5JB0A9306029

Removal

1) Remove steering wheel referring to “Steering Wheel Removal and Installation: in Section 6B”.
2) Remove steering wheel cover (1) from steering wheel.



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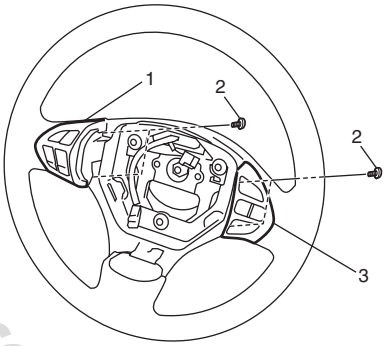
3) Remove remote audio control switch (1) with cruise control switch (3) (if equipped).



I5JB0A930027-01

2. screw

Installation

Reverse removal procedure for installation.

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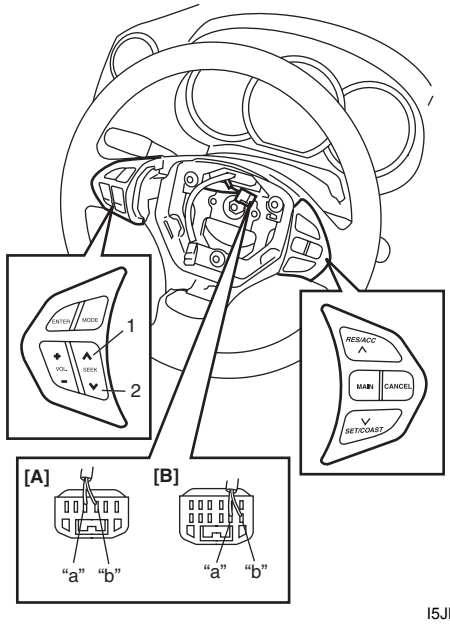
Remote Audio Control Switch Inspection

S5JB0A9306026

1) Remove driver air bag (inflator) module referring to "Driver Air Bag (Inflator) Module Removal and Installation: in Section 8B".
2) Disconnect remote audio control switch connector from contact coil.
3) Check switch for resistance between "a" and "b" terminals under each condition below.
   If check result is not satisfactory, replace remote audio control switch.

   "ENTER", "+" and "–" switch resistance
   All switches released (OFF): 4700 – 5600 kΩ
   "ENTER" switch (1) pushing on (ON): 50 – 60 Ω
   "+" switch (2) pushing on (ON): 120 – 140 Ω
   "–" switch (3) pushing on (ON): 220 – 260 Ω
4) Check switch for resistance between "a" and "b" terminals under each condition below.
   If check result is not satisfactory, replace remote audio control switch.

   "MODE", "Λ" and "V" switch resistance
   All switches released (OFF): 4700 – 5600 kΩ
   "MODE" switch (4) pushing on (ON): 370 – 460 Ω
   "Λ" witch (5) pushing on (ON): 680 – 820 Ω
   "V" switch (6) pushing on (ON): 1400 – 1700 Ω



I5JB0A930028-01

[A]: Without cruise control system
[B]: With cruise control system

Specifications

Tightening Torque Specifications

S5JB0A9307001

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Instrument panel mounting bolt	23	2.3	17.0	☞
Lower anchor bolt	35	3.5	25.5	☞
Antenna base mounting nut	10	1.0	7.5	☞

NOTE

The specified tightening torque is also described in the following.
"Audio System Component Location: "

Reference:
For the tightening torque of fastener not specified in this section, refer to "Fastener Information: in Section 0A".

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Wipers / Washers

Diagnostic Information and Procedures

Front Wiper and Washer Symptom Diagnosis

S5JB0A9404001

Condition	Possible cause	Correction / Reference Item
Wiper malfunctions	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Wiper motor faulty	*Check wiper motor referring to "Windshield Wiper Motor Inspection: ".*
	Combination switch (wiper switch) faulty	*Check wiper switch referring to "Windshield Wiper and Washer Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
Washer malfunctions	Washer hose or nozzle clogged	*Clean or repair clogged hose or nozzle.*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Washer motor faulty	*Check washer motor referring to "Washer Pump Inspection: ".*
	Combination switch (washer switch) faulty	*Check washer switch referring to "Windshield Wiper and Washer Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*

Rear Wiper and Washer Symptom Diagnosis (If Equipped)

S5JB0A9404002

Condition	Possible cause	Correction / Reference Item
Wiper malfunctions ***NOTE*** • ***Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".*** • ***Check each part in the order from the top of the following list.***	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Wiper motor faulty	*Check wiper motor referring to "Rear Wiper Motor Inspection (If Equipped): ".*
	Combination switch (wiper switch) faulty	*Check wiper switch referring to "Rear Wiper and Washer Switch Inspection: ".*
	Rear wiper relay faulty	*Check rear wiper relay referring to "Rear Wiper Relay Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Washer malfunctions	Washer hose or nozzle clogged	*Clean or repair clogged hose or nozzle.*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Washer motor faulty	*Check washer motor referring to "Washer Pump Inspection: ".*
	Combination switch (washer switch) faulty	*Check washer switch referring to "Rear Wiper and Washer Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*

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Headlight Washer Symptom Diagnosis (If Equipped)

S5JB0A9404003

Condition	Possible cause	Correction / Reference Item
Headlight washer malfunction	Washer hose or nozzle clogged	*Clean or repair clogged hose or nozzle.*
	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Headlight washer switch faulty	*Check headlight washer switch referring to "Headlight Washer Switch Inspection (If Equipped): ".*
	Combination switch (washer switch) faulty	*Check washer switch referring to "Windshield Wiper and Washer Switch Inspection: ".*
	Headlight washer pump faulty	*Check headlight washer pump referring to "Washer Pump Inspection: ".*
	Wiring or ground faulty	*Repair circuit.*
	Headlight washer control module faulty	*Check headlight washer control module referring to "Inspection of Headlight Washer Control Module and Its Circuit: ".*

Headlight Washer Operation Inspection

S5JB0A9404004

1) Turn ignition switch to ON position.
2) Turn lighting switch to "HEAD" position.
3) Make sure that washer fluid is spouted out from the headlight washer nozzle to the headlight surface when the headlight washer switch or front washer switch is turned on.
   If headlight washer does not operate, go to "Headlight Washer Symptom Diagnosis (If Equipped)".

NOTE

The headlight washer works only when the headlight is turned on. The headlight washer spouts washer fluid on the headlight surface when the headlight washer switch or front washer switch is turned on. In addition, in case using the front washer switch, the headlight washer works only once after the headlight on.

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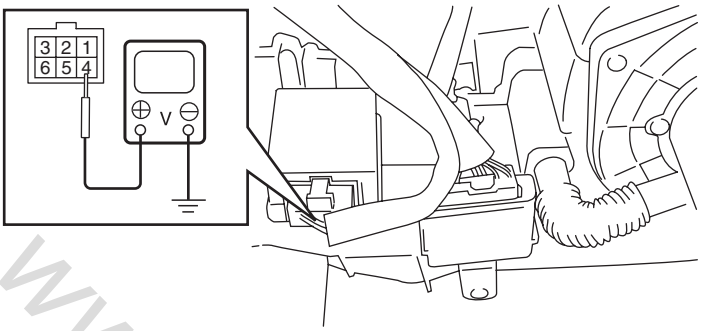
Inspection of Headlight Washer Control Module and Its Circuit

S5JB0A9404005

1) Remove headlight washer control module from blower unit.
2) Connect connector to headlight washer control module.
3) Check that the voltage between the following terminals and vehicle body ground are specifications under each condition.
   If measuring voltage is not within specification, first check related switch and applicable wire harness circuit for open or short. And if all wire harness circuits and connections are normal, replace headlight washer control module.



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Terminal	Circuit	Specification	Condition
1	To headlight washer switch	0 – 1 V	Ignition switch is at ON position, lighting switch is at HEAD position and headlight washer switch is pushed.
		4 – 6 V	Ignition switch is at ON position and headlight washer switch is not pushed.
2	Ground	0 – 1 V	—
3	To headlight washer motor	0 – 1 V	When headlight washer pump is in operation. The headlight washer pump works for 0.8 seconds in case that the following conditions are all satisfied. • Ignition switch is at ON position • Lighting switch is at HEAD position • Windshield washer switch is at ON position or headlight washer switch is pushed
		10 – 14 V	When headlight washer pump is not in operation.
4	To lighting switch	0 – 1 V	Lighting switch is at HEAD position.
		10 – 14 V	Lighting switch is at OFF position.
5	To windshield washer switch	0 – 1 V	Ignition switch is at ON position and windshield washer switch is at ON position.
		10 – 14 V	Ignition switch is at ON position and windshield washer switch is at OFF position.
6	To ignition switch	0 – 1 V	Ignition switch is at OFF position.
		10 – 14 V	Ignition switch is at ON position.

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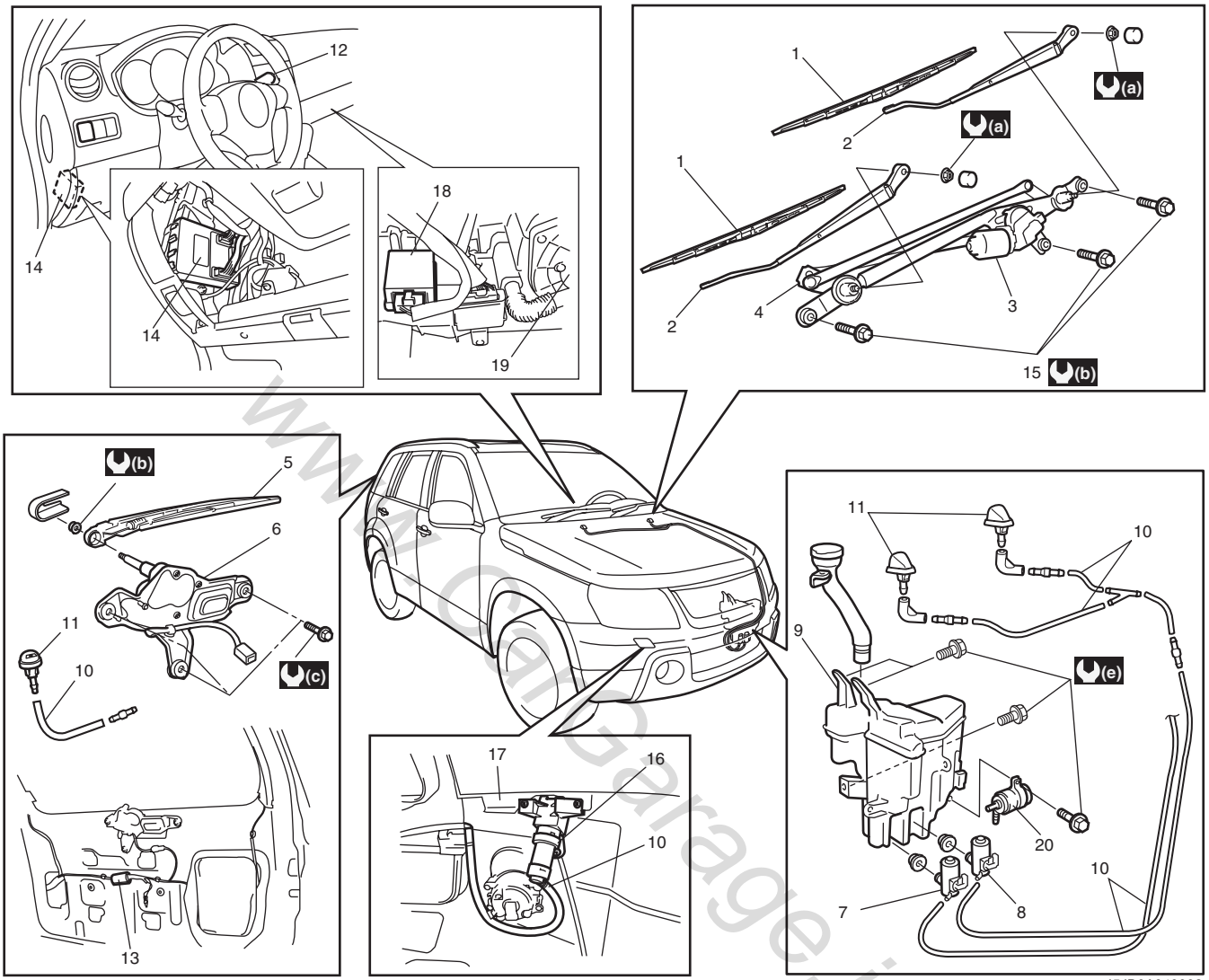
Repair Instructions

Wipers and Washers Components

S5JB0A9406001



I5JB0A940002-01

1. Windshield wiper blade	8. Washer pump for rear washer (if equipped)	15. Windshield wiper bolt	(b) : 8.5 N·m (0.85 kgf-m, 6.5 lb-ft)
2. Windshield wiper arm	9. Washer tank	16. Headlight washer nozzle	(c) : 7 N·m (0.7 kgf-m, 5.0 lb-ft)
3. Windshield wiper motor	10. Washer hose	17. Front bumper	(d) : 8 N·m (0.8 kgf-m, 6.0 lb-ft)
4. Windshield wiper link	11. Washer nozzle	18. Headlight washer control module	(e) : 4 N·m (0.4 kgf-m, 3.0 lb-ft)
5. Rear wiper arm with blade assembly (if equipped)	12. Wiper switch	19. Blower fan motor	
6. Rear wiper motor (if equipped)	13. Rear wiper relay (if equipped)	20. Headlight washer pump (if equipped)	
7. Washer pump for windshield washer	14. BCM	(a) : 14 N·m (1.4 kgf-m, 10.5 lb-ft)	

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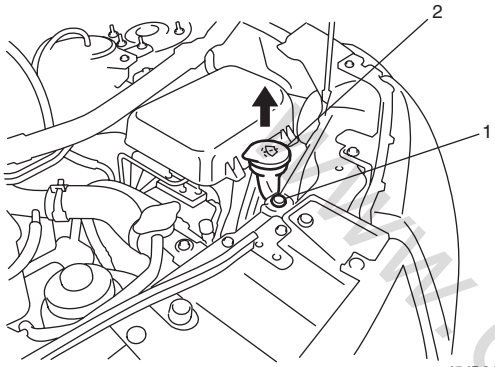
Washer Tank and Washer Pump Removal and Installation

S5JB0A9406002

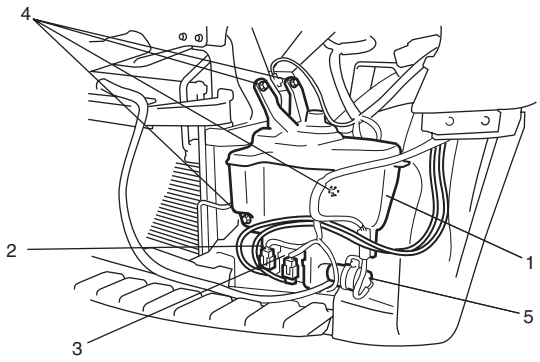
Removal

1) Disconnect negative (–) cable at battery.
2) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
3) Remove right headlight housing from vehicle body referring to “Headlight Housing Removal and Installation: in Section 9B”.
4) Remove grommet (1) and upper part (2) of washer tank.



I5JB0A940003-01

5) Remove washer tank attaching bolts (4).
6) Disconnect washer pump lead wire couplers and hoses.
7) Remove washer tank (1).
8) Remove windshield washer pump (2), rear washer pump (3) (if equipped) and headlight washer pump (5) (if equipped) from washer tank (1).



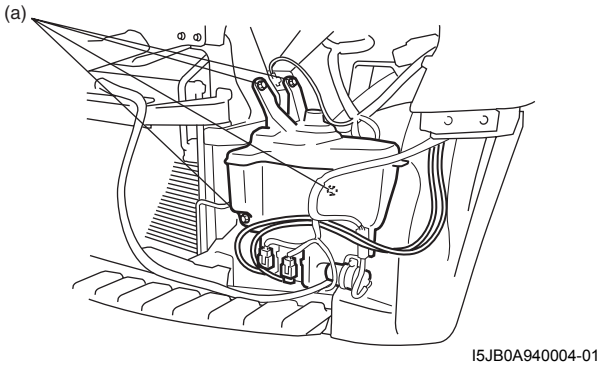
I5JB0A940005-01

Installation

Install washer tank and washer pump by reversing removal procedure, noting the following instructions.

- Connect washer pump connector(s) securely.
- Tighten washer tank bolts to specified torque.

Tightening torque
Washer tank bolt (a): 4 N·m (0.4 kgf-m, 3.0 lb-ft)



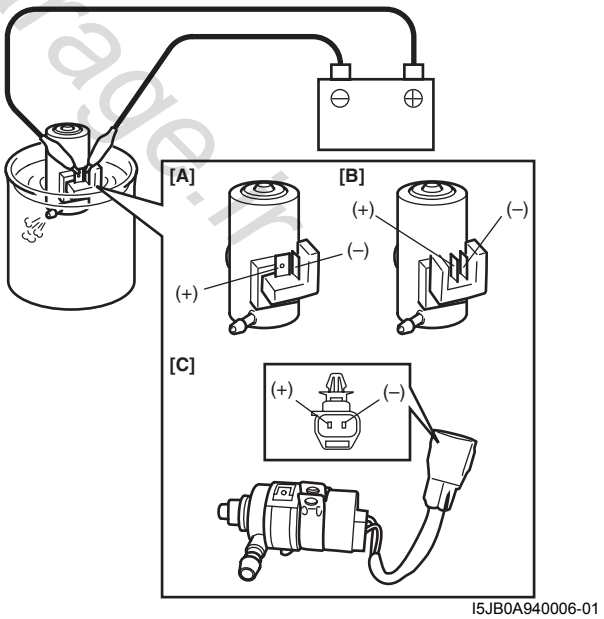
I5JB0A940004-01

- After installing headlight housing be sure to inspect and adjust aiming referring to “Headlight Aiming Adjustment with Screen: in Section 9B”.

Washer Pump Inspection

S5JB0A9406003

1) Connect battery positive (+) and negative (–) terminals to pump (+) and (–) terminals respectively.
2) Check front, rear or headlight washer pump for operation.
   If pump does not operate, replace washer pump.



I5JB0A940006-01

[A]:	Windshield washer pump
[B]:	Rear washer pump
[C]:	Headlight washer pump

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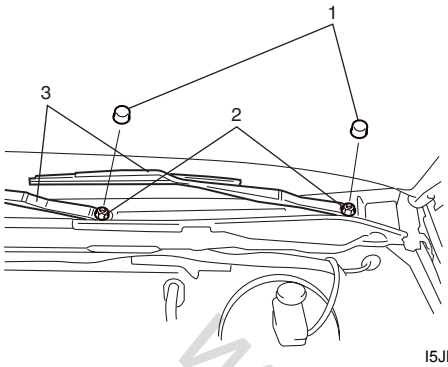
Windshield Wiper Removal and Installation

S5JB0A9406004

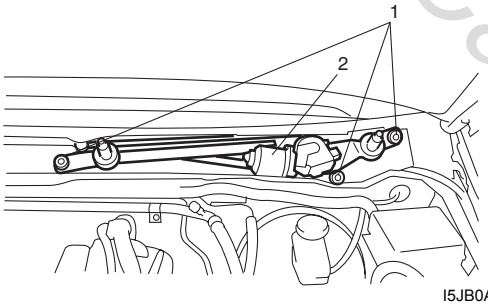
Removal

1) Disconnect negative (–) cable at battery.
2) Remove wiper pivot caps (1) and wiper arm nuts (2), and remove windshield wiper arms with wiper blades (3).



I5JB0A940007-01

3) Remove cowl top garnish referring to “Cowl Top Components: in Section 9K”.
4) Disconnect coupler from windshield wiper motor.
5) Remove bolts (1), and remove windshield wiper assembly (2).

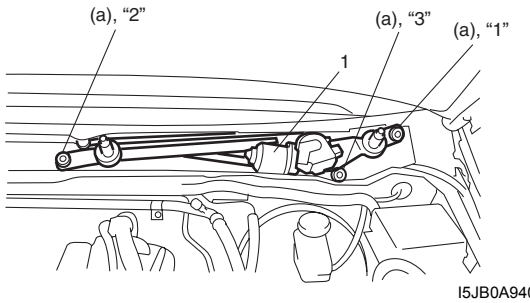


I5JB0A940008-01

Installation

1) Install windshield wiper assembly (1), and tighten bolts (“1” – “3”) according to numerical order as shown in figure.

Tightening torque
Windshield wiper bolt (a): 8.5 N·m (0.85 kgf-m, 6.5 lb-ft)

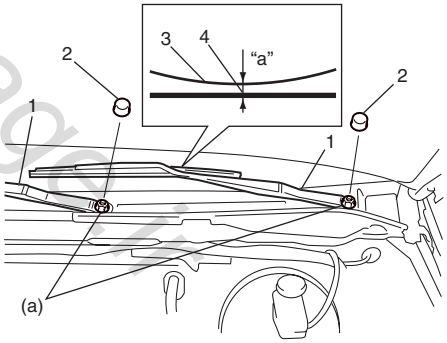


I5JB0A940026-01

2) Connect coupler to windshield wiper motor.
3) Install cowl top garnish referring to “Cowl Top Components: in Section 9K”.
4) Install windshield wiper arms with wiper blades (1) to specified position as shown in figure, and then tighten windshield wiper nuts to specified torque.

Tightening torque
Windshield wiper arm nut (a): 14 N·m (1.4 kgf-m, 10.5 lb-ft)

5) Install wiper pivot caps (2) to windshield wiper arm nuts



I5JB0A940009-01

“a”: 5 mm (0.20 in.)	4. Wiper blade center
3. Ceramic line	

6) Connect negative (–) cable to battery.

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Windshield Wiper Motor Inspection

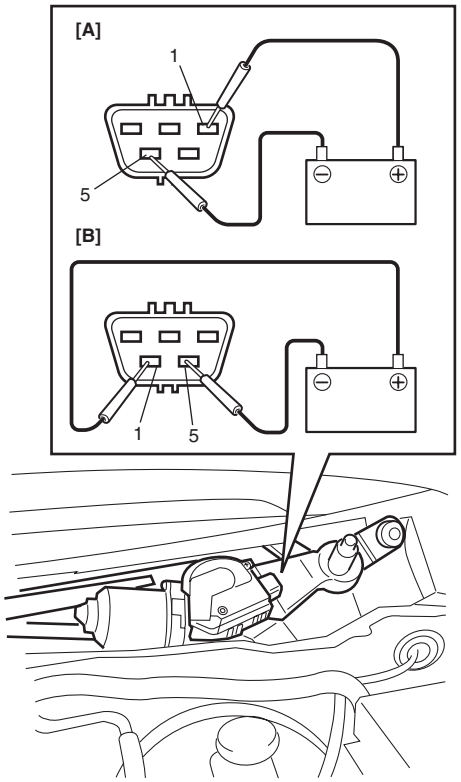
S5JB0A9406005

NOTE

Make sure that battery voltage is 12 V or more.

1) Disconnect negative (–) cable at battery.
2) Remove windshield wiper arms with wiper blades referring to “Windshield Wiper Removal and Installation: ”.
3) Remove cowl top garnish referring to “Cowl Top Components: in Section 9K”.
4) Disconnect coupler from windshield wiper motor.
5) Reinstall windshield wiper arms with wiper blade. For details, refer to Step 4) of “Installation” in “Windshield Wiper Removal and Installation: ”.
6) Check windshield wiper motor for operation as follows
   - For motor operation in low speed
     a. Connect battery positive (+) terminal to terminal “1” and its negative (–) terminal to terminal “5”.
     b. Check if wiper arm reciprocation speed is as specification. If check result is not as specified, replace motor.

     Specification
     44 – 52 r/min (rpm)

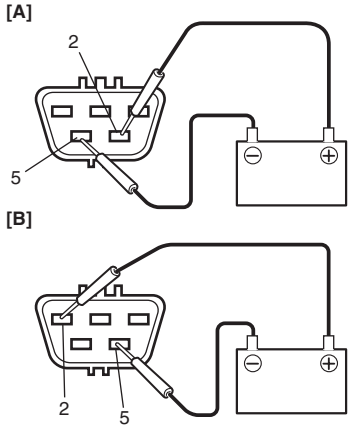


I5JB0A940010-01

[A]:	Left-hand steering vehicle
[B]:	Right-hand steering vehicle

   - For motor operation in high speed
     a. Connect battery positive (+) terminal to “2” and its negative (–) terminal to terminal “5”.
     b. Check if motor revolution speed is as specification. If check result is not as specified, replace motor.

     Specification
     64 – 78 r/min (rpm)



I5JB0A940011-01

[A]:	Left-hand steering vehicle
[B]:	Right-hand steering vehicle

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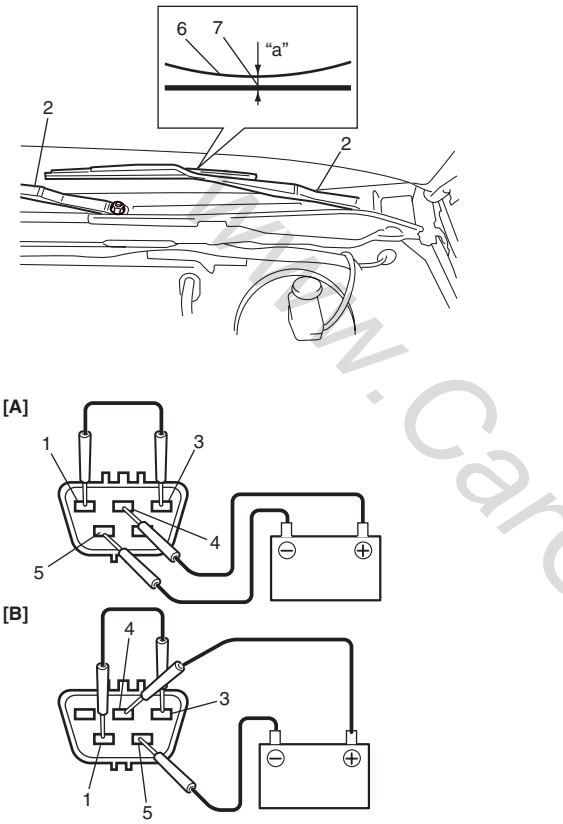
- For automatic stop operation
  a. Connect battery positive (+) terminal to terminal “1” and its negative (–) terminal to terminal “5” and let the motor turn.
  b. Disconnect terminal “1” from battery positive (+) terminal, and let the motor stop.
  c. Connect terminals “1” and “3” with a jumper wire, and connect terminal “4” to battery positive (+) terminal.
  Observe the motor turns once again then stops at a specified position as shown.



I5JB0A940012-01

[A]: Left-hand steering vehicle	2. Windshield wiper arms with wiper blades
[B]: Right-hand steering vehicle	6. Ceramic line
“a”: 5 mm (0.20 in.)	7. Wiper blade center

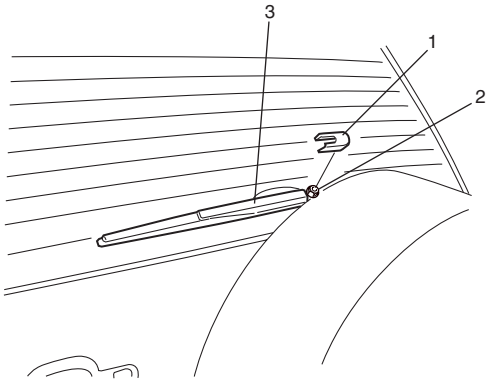
  d. Repeat Step 1) to 3) several times and check that the motor stops at the specified position every time.
  If check result is not satisfied, replace motor.

Rear Wiper Removal and Installation (If Equipped)

S5JB0A9406006

Removal

1) Disconnect negative (–) cable at battery.
2) Remove arm cover (1), rear wiper arm nut (2) and rear wiper arm with blade assembly (3).



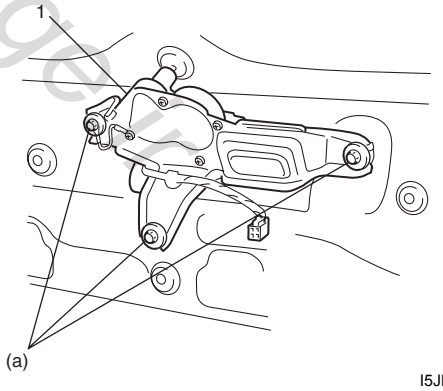
I5JB0A940013-02

3) Remove rear end door trim referring to “Rear End Door Lock Assembly Removal and Installation: in Section 9F”.
4) Disconnect coupler from rear wiper motor.
5) Remove rear wiper motor.

Installation

1) Install rear wiper motor (1) and tighten rear wiper motor mounting bolts to specified torque.

Tightening torque
Rear wiper motor mounting bolt (a): 7 N·m (0.7 kgf-m, 5.0 lb-ft)



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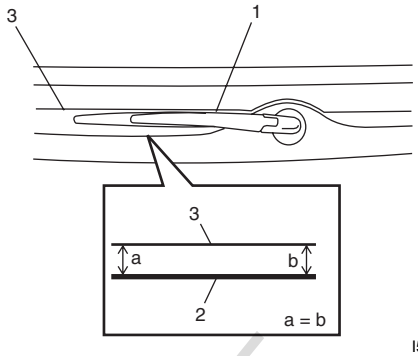
2) Connect coupler to rear wiper motor
3) Install rear end door trim referring to “Rear End Door Lock Assembly Removal and Installation: in Section 9F”.
4) Install rear wiper arm with blade assembly (1) to specified position as shown in figure.

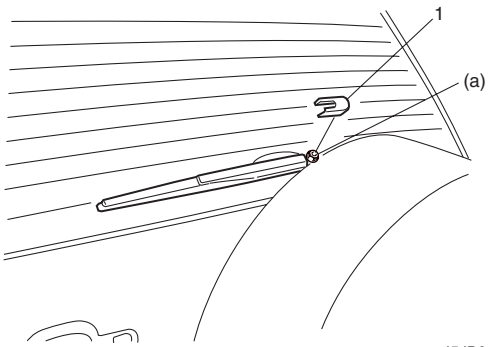


I5JB0A940015-01

2.	Rear wiper blade
3.	Defogger wire

5) Tighten rear wiper arm nut to specified torque, and then install arm cover (1).

Tightening torque
Rear wiper arm nut (a): 8 N·m (0.8 kgf-m, 6.0 lb-ft)



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6) Connect negative (–) cable to battery.

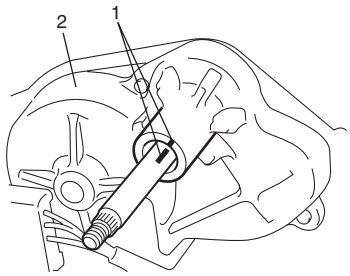
Rear Wiper Motor Inspection (If Equipped)

S5JB0A9406007

NOTE

Make sure that battery voltage is 12 V or more.

1) Make a mark (1) on rear wiper motor (2) stop position as shown.



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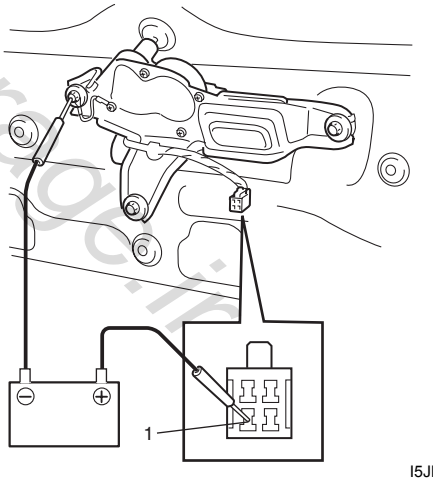
2) Check rear wiper motor for operation as follows.
   - For motor operation
     a. Connect battery positive terminal to terminal “1” and its negative terminal to body ground.
     b. Check motor revolution speed as specification. If check result is not as specified, replace motor.

Specification
33 – 43 r/min (rpm)



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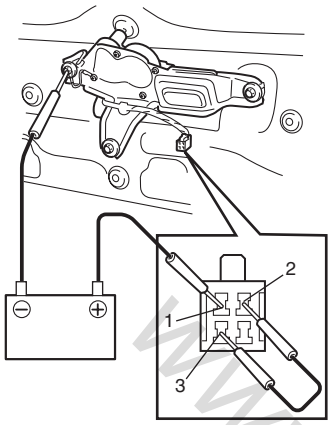
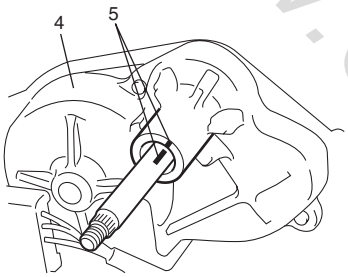
- For automatic stop operation
  a. Connect battery positive (+) terminal to terminal “1” and its negative (–) terminal to body ground and let the motor turn.
  b. Connect terminal “2” and “3” by a jumper wire.
  c. Observe the motor (4) turns once again then stops at a specified position as shown.





I5JB0A940019-01

5. Mark

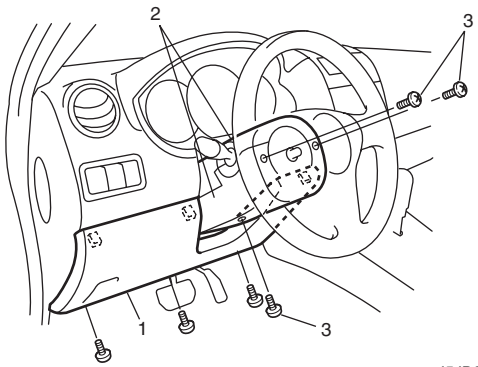
  d. Repeat Step a. to c. several times and check that the motor stops at the specified position every time.
  If check result is not satisfied, replace motor.

Windshield Wiper and Washer Switch Removal and Installation

S5JB0A9406008

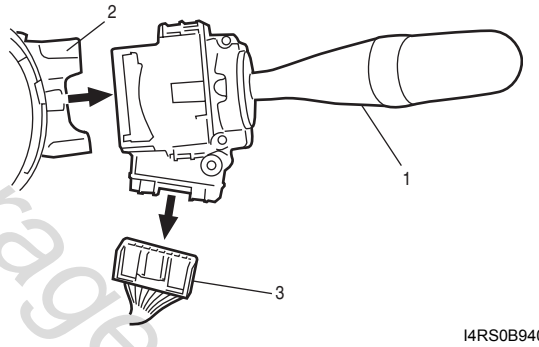
Removal

1) Disconnect negative (–) cable at battery.
2) Remove steering column hole cover (1).
3) Remove steering column covers (2).
Turn steering wheel to access steering column cover rear end screws (3).



I5JB0A940020-01

4) Remove windshield wiper and washer switch (1) from combination switch assembly (2) and disconnect its coupler (3).



I4RS0B940008-01

Installation

Reverse removal procedure.

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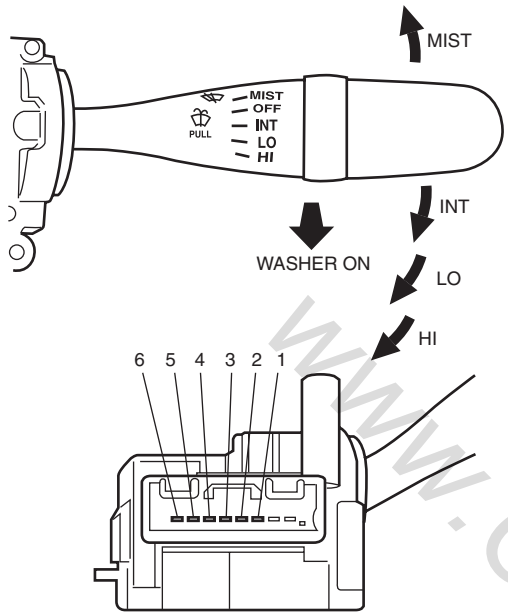
Windshield Wiper and Washer Switch Inspection

S5JB0A9406009

Windshield Wiper and Washer Switch

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



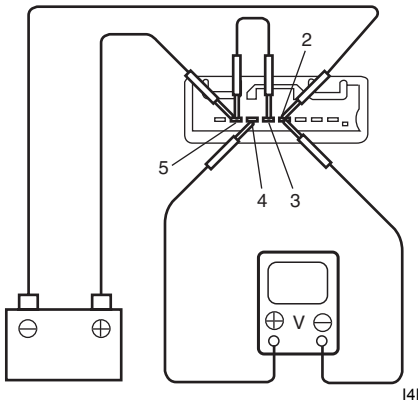
Terminal / Wiper SW	6	5	4	3
OFF			○	○
INT			○	○
LO		○	○	
HI	○	○		
MIST		○	○	

Terminal / Washer SW	1	2
ON	○	○
OFF		

I4RS0B940009-03

Intermittent Wiper Relay Circuit

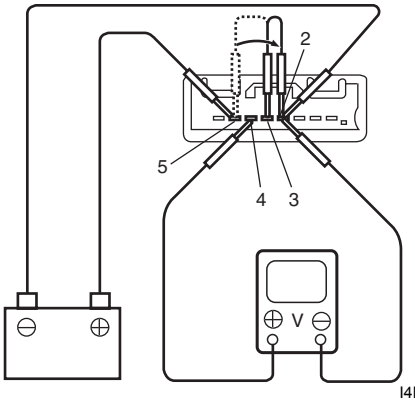
1) Turn the windshield wiper switch to “INT” position.
2) Connect battery positive (+) terminal to terminal “5” and its negative (–) terminal to terminal “2”.
3) Connect voltmeter positive lead to terminal “4” and its negative lead to terminal “2”.
4) Check that the voltmeter indicates the battery voltage (10 – 14 V).
5) Connect terminal “3” and terminal “5” by a jumper wire.



I4RS0B940010-01

6) Disconnect end of the jumper wire from terminal “5”.
7) Connect disconnected jumper wire end to terminal “2”, then check that voltage between terminal “4” and terminal “2” changes as shown.
If check result is not satisfied, replace switch.

INT time control switch position	Voltage
INT TIME	10-14V, 0V, 1.6 ± 1 sec.
INT TIME	10-14V, 0V, 10.7 ± 5 sec.



I4RS0B940011-01

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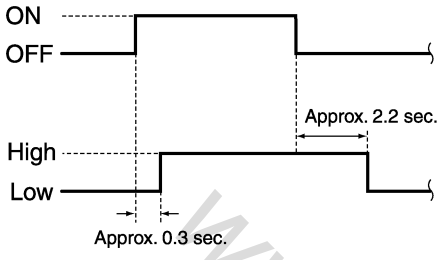
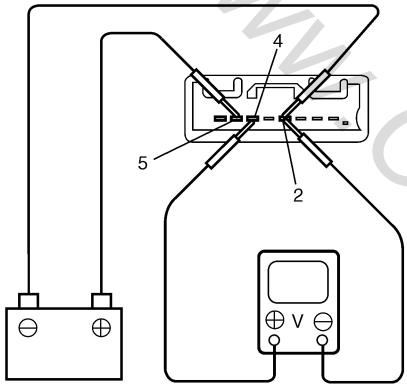
Washer Linked Circuit

1) Make sure that front wiper switch is at “OFF” position.
2) Connect battery positive (+) terminal to terminal “5” and its negative (–) terminal to terminal “2”.
3) Connect voltmeter positive lead to terminal “4” and its negative lead to terminal “2”.
4) When front washer switch is ON, check that voltage changes as shown in figure.
   If check result is not satisfied, replace switch.





I4RS0B940012-01

Rear Wiper and Washer Switch Removal and Installation

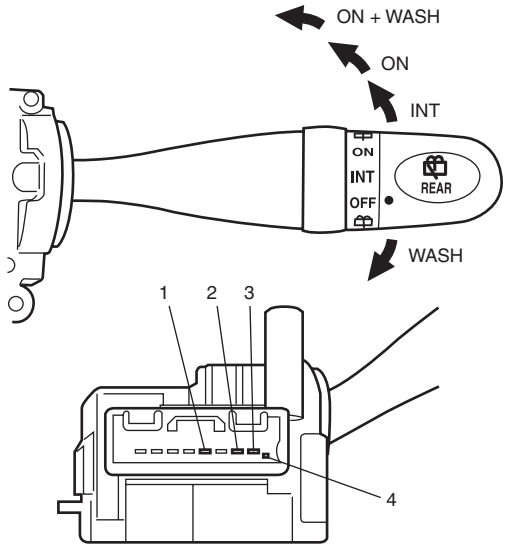
S5JB0A9406010

For removal and installation, refer to “Windshield Wiper and Washer Switch Removal and Installation: ”.

Rear Wiper and Washer Switch Inspection

S5JB0A9406011

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



Position \ Terminal	1	2	3	4
OFF				
INT	○			○
ON	○		○	
ON + WASH	○	○	○	
WASH	○	○		

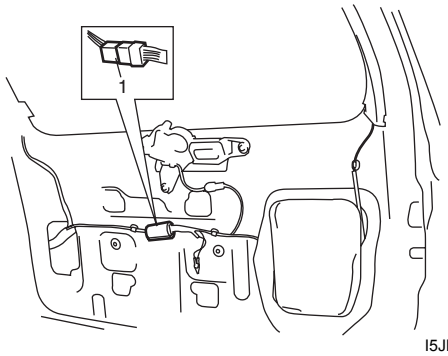
I4RS0B940013-03

Rear Wiper Relay Removal and Installation

S5JB0A9406012

Removal

1) Disconnect negative (–) cable at battery.
2) Remove rear end door trim from rear end door referring to “Rear End Door Lock Assembly Removal and Installation: ” in Section 9F”.
3) Remove rear wiper relay (1).



I5JB0A940021-01

Installation

Reverse removal procedure for installation.

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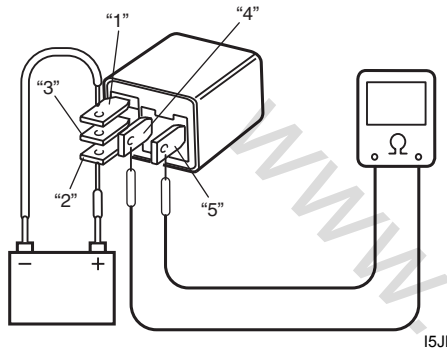
Rear Wiper Relay Inspection

S5JB0A9406013

1) Check that there is no continuity between terminal “4” and “5”. If there is continuity, replace relay.
2) Check that there is continuity between terminal “3” and “5”. If there is no continuity, replace relay.
3) Connect battery positive (+) terminal to terminal “2” of relay.
4) Connect battery negative (–) terminal to terminal “1” of relay.
5) Check continuity between terminal “4” and “5”. If there is no continuity when relay is connected to the battery, replace relay.

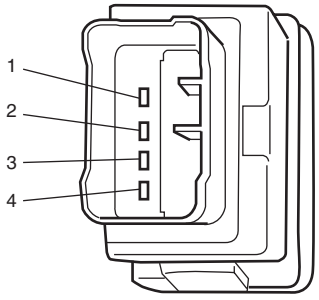


I5JB0A940022-01

Headlight Washer Switch Inspection (If Equipped)

S5JB0A9406014

Check for continuity between terminals at each switch position.
If check result is not as specified, replace switch.



Terminal / Switch Position	1	2	3	4
OFF	○		○ ⌀	○
ON (PUSH IN)		○	○ ⌀	○

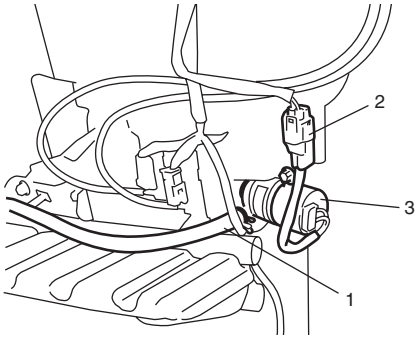
I5JB0A940023-01

Headlight Washer Pump Removal and Installation (If Equipped)

S5JB0A9406015

Removal

1) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
2) Disconnect headlight washer hose (1) and washer pump connector (2) from headlight washer pump (3).
3) Remove headlight washer pump from washer tank.



I5JB0A940024-01

Installation

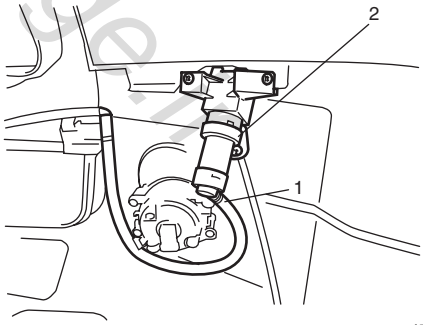
Reverse removal procedure for installation.

Headlight Washer Nozzle Removal and Installation (If Equipped)

S5JB0A9406016

Removal

1) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
2) Disconnect headlight washer hose (1) from headlight washer nozzle (2).
3) Remove headlight washer nozzle from front bumper.



I5JB0A940025-01

Installation

Reverse removal procedure for installation.

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Specifications

Tightening Torque Specifications

S5JB0A9407001

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Washer tank bolt	4	0.4	3.0	☞
Windshield wiper bolt	8.5	0.85	6.5	☞
Windshield wiper arm nut	14	1.4	10.5	☞
Rear wiper motor mounting bolt	7	0.7	5.0	☞
Rear wiper arm nut	8	0.8	6.0	☞

NOTE

The specified tightening torque is also described in the following.
“Wipers and Washers Components: ”

Reference:
For the tightening torque of fastener not specified in this section, refer to “Fastener Information: in Section 0A”.

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Glass / Windows / Mirrors

General Description

Rear End Door Window Defogger System Description

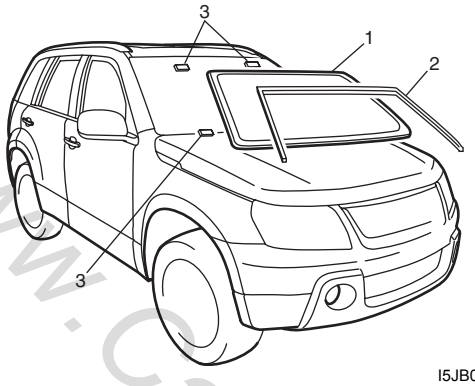
S5JB0A9501001

The rear end door window defogger is controlled by BCM. For the BCM description refer to “BCM General Description: in Section 10B”.

Windshield Construction

S5JB0A9501002

The windshield is installed by using a special type of adhesive (that is, one component urethane adhesive used with primer). For the windshield replacement, it is important to use an adhesive which provides sufficient adhesion strength and follow the proper procedure.



I5JB0A950001-01

1. Windshield glass	3. Fastener
2. Windshield molding	

⚠ CAUTION

- **Described is the glass replacement by using 3 types of primers and 1 type of adhesive made by YOKOHAMA (one component urethane adhesive to be used with primer in combination). When using primer and adhesive made by other manufacturers, be sure to refer to handling instructions supplied with them. Negligence in following such procedure or misuse of the adhesive in any way hinders its inherent adhesive property. Therefore, before the work, make sure to read carefully the instruction and description given by the maker of the adhesive to be used and be sure to follow the procedure and observe each precaution throughout the work.**
- **Should coated surface be scratched or otherwise damaged, be sure to repair damaged part, or corrosion may start from there.**

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Use the specific adhesive which has the following property.

Glass adhesive shearing strength
40 kg/cm^2 (569 lb/in^2) or more

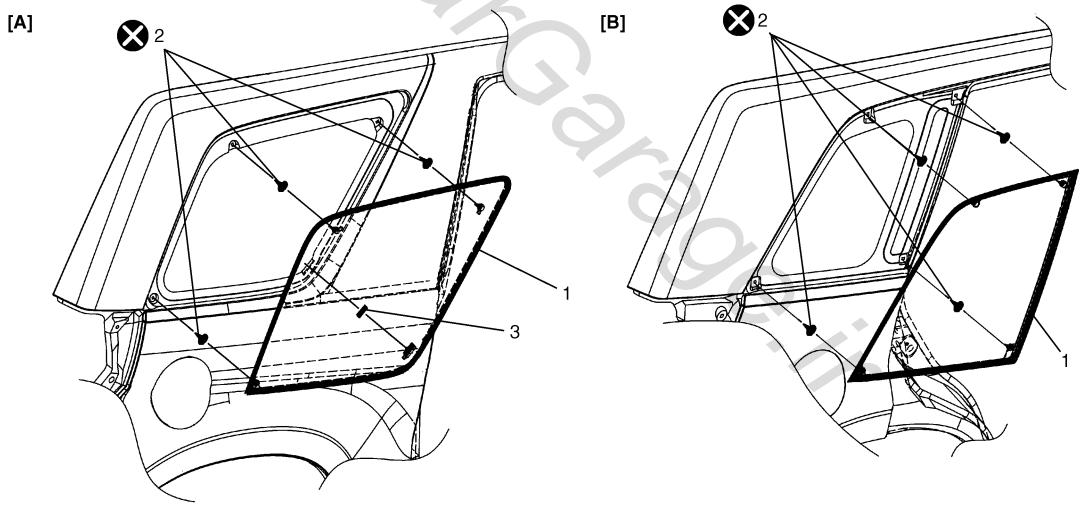
Adhesive materials and tools required for removal and installation.

- One component urethane adhesive and primers used in combination (For one sheet of windshield).
  - Adhesive (470 g (15.7 oz.))
  - Primer for glass (30 g (1.0 oz.))
  - Primer for body (30 g (1.0 oz.))
  - Primer for molding (30 g (1.0 oz.))
- Eyeleteer
- Piano string
- Windshield knife
- Brush for primer application (2 pcs)
- Knife
- Rubber sucker grip
- Sealant gun (for filling adhesive)
- Putty spatula (for correcting adhered parts)

Rear Quarter Window Construction

S5JB0A9501003

The rear quarter window is installed by using a special type of adhesive (that is, one component urethane adhesive used with primer). For the rear quarter window replacement, it is important to use an adhesive which provides sufficient adhesion strength and follow the proper procedure.



I5JB0A950002-01

[A]: 3 door model	1. Rear quarter window glass	3. Fastener
[B]: 5 door model	2. Rear quarter window glass clip	⊗ : Do not reuse.

⚠ CAUTION

- **Described is the glass replacement by using 3 types of primers and 1 type of adhesive made by YOKOHAMA (one component urethane adhesive to be used with primer in combination). When using primer and adhesive made by other manufacturers, be sure to refer to handling instructions supplied with them. Negligence in following such procedure or misuse of the adhesive in any way hinders its inherent adhesive property. Therefore, before the work, make sure to read carefully the instruction and description given by the maker of the adhesive to be used and be sure to follow the procedure and observe each precaution throughout the work.**
- **Should coated surface be scratched or otherwise damaged, be sure to repair damaged part, or corrosion may start from there.**

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Use the specific adhesive which has the following property.

Glass adhesive shearing strength
40 kg/cm^2 (569 lb/in^2) or more

Adhesive materials and tools required for removal and installation.

- One component urethane adhesive and primers used in combination (For one sheet of rear quarter window).
  - Adhesive (470 g (15.7 oz.))
  - Primer for glass (30 g (1.0 oz.))
  - Primer for body (30 g (1.0 oz.))
  - Primer for molding (30 g (1.0 oz.))
- Eyeleteer
- Piano string
- Windshield knife
- Brush for primer application (2 pcs)
- Knife
- Rubber sucker grip
- Sealant gun (for filling adhesive)
- Putty spatula (for correcting adhered parts)

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Diagnostic Information and Procedures

Rear End door Window Defogger Symptom Diagnosis

S5JB0A9504001

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
Rear end door window defogger does not operate	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Rear end door window defogger relay faulty	*Check rear end door window defogger relay referring to "Rear End Door Window Defogger Relay Inspection: ".*
	Defogger wire faulty	*Check defogger wire referring to "Rear End Door Window Defogger Wire Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
	HVAC control module faulty	*Check HVAC control module referring to "HVAC Control Module and Its Circuits Inspection: in Section 7B".*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Power Window Control System Symptom Diagnosis

S5JB0A9504002

Condition	Possible cause	Correction / Reference Item
All power windows do not operate	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Power window main switch faulty	*Check power window main switch referring to "Power Window Main Switch Inspection: ".*
	Ignition switch faulty	*Check ignition switch referring to "Ignition Switch Inspection: in Section 9C".*
	Wiring or grounding faulty	*Repair circuit.*
Only one power window does not operate	Power window main switch faulty	*Check power window main switch referring to "Power Window Main Switch Inspection: ".*
	Power window sub switch faulty	*Check power window sub switch referring to "Power Window Sub Switch Inspection: ".*
	Wiring and/or coupler faulty	*Check wiring and/or coupler.*
	Power window regulator faulty	*Check window regulator.*
	Power window motor faulty	*Check power window motor.*
	Wiring or grounding faulty	*Repair circuit.*

Power Door Mirror Control System Symptom Diagnosis (If Equipped)

S5JB0A9504003

Condition	Possible cause	Correction / Reference Item
All power mirrors do not operate	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Power door mirror switch faulty	*Check power door mirror switch referring to "Power Door Mirror Switch Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*
One power mirror does not operate	Power door mirror switch faulty	*Check power door mirror switch referring to "Power Door Mirror Switch Inspection (If Equipped): ".*
	Power door mirror actuator faulty	*Check actuator refraining to "Power Door Mirror Actuator Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*

Door Mirror Heater Symptom Diagnosis (If Equipped)

S5JB0A9504005

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
All door mirror heaters does not operate	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Mirror heater relay faulty	*Check mirror heater relay referring to "Door Mirror Heater Relay Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*
	HVAC control module faulty	*Check HVAC control module referring to "HVAC Control Module and Its Circuits Inspection: in Section 7B".*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Only one door mirror heater does not operate	Door mirror heater faulty	*Check door mirror heater referring to "Door Mirror Heater Inspection (If Equipped): ".*
	Wiring or grounding faulty	*Repair circuit.*

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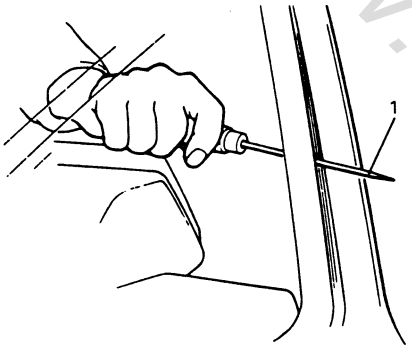
Repair Instructions

Windshield Removal and Installation

S5JB0A9506001

Removal

1) Clean both inside and outside of glass and around it.
2) Remove wiper arms and cowl top garnish.
3) Remove windshield side garnish.
4) Using tape, cover body surface around glass to prevent any damage.
5) Remove rear view mirror, sun visor and front pillar trims (right & left).
6) If necessary, remove instrument panel. Refer to “Instrument Panel Removal and Installation: in Section 9C”.
7) If necessary, remove head lining. Refer to “Head Lining Removal and Installation: in Section 9H”.
8) Remove (or cut) windshield molding.
9) Drill hole with eyeleteer (1) through adhesive and let piano string through it.

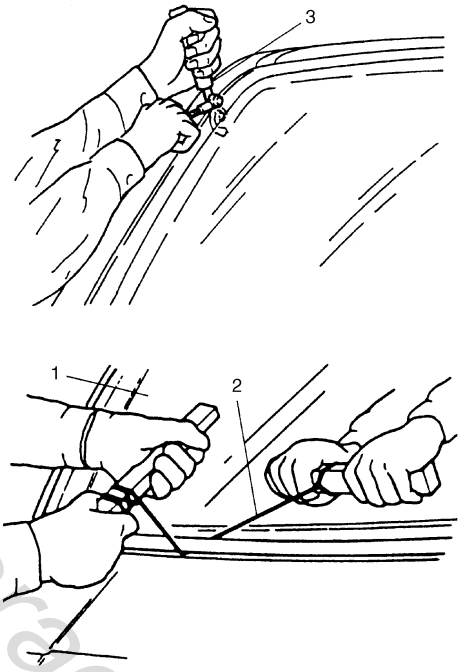


I2RH01950040-01

10) Cut adhesive all around windshield (1) with piano string (2). When using tool, windshield knife (3), to cut adhesive, be careful not to cause damage to windshield. Use wire to cut adhesive along lower part of windshield.

NOTE

Use piano string (2) as close to glass as possible so as to prevent damage to body and instrument panel.

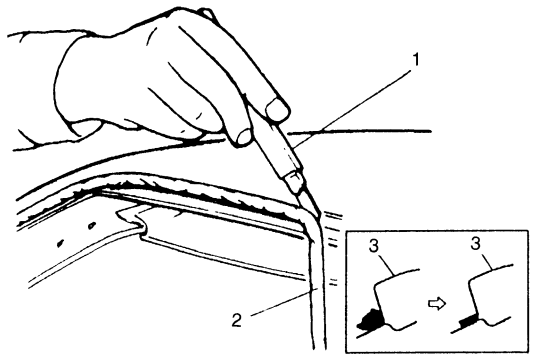


I3RH0A950006-01

11) Using knife (1), smoothen adhesive (2) remaining on body side (3) so that it is 1 – 2 mm (0.039 – 0.078 in.) thick all around.

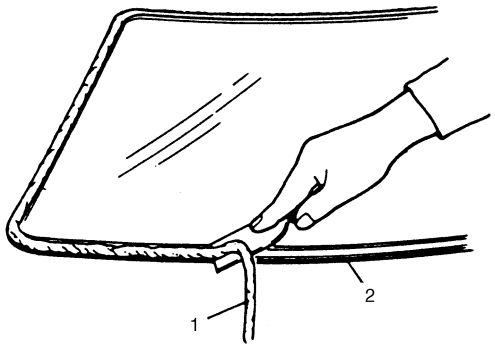
NOTE

Before using knife (1), clean it with alcohol or the like to remove oil from it.



I2RH01950042-01

12) When reusing windshield, remove the adhesive (1) from it, using care not to damage primer coated surface (2).

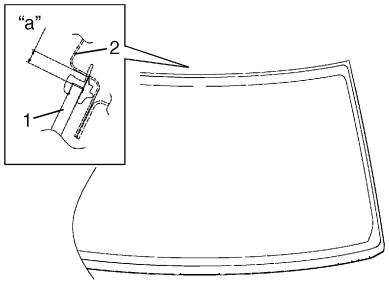


I2RH01950043-01

Installation

1) Using cleaning solvent, clean windshield edge where windshield glass is to be adhered. (Let it dry for more than 10 minutes.)
2) To determine installing position of glass (1) to body (2), position glass against body so that clearance between upper end of glass (1) and body (2) is approximately 5.5 mm (0.217 in.) and clearances between each side end (right & left) of glass (1) and body (2) are even. Then mark mating marks on glass (1) and body (2) as shown. Upper clearance can be adjusted by moving glass stoppers position.

Windshield clearance
"a": approx. 5.5 mm (0.217 in.)

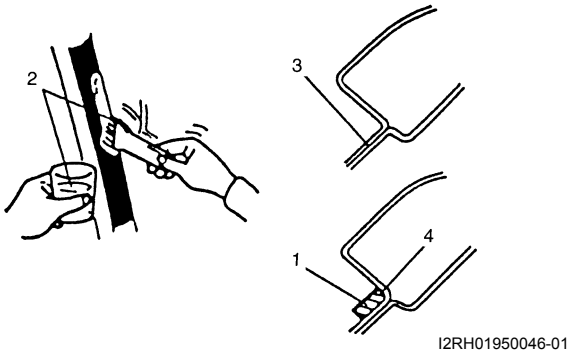


I5JB0A950003-01

3) Clean contact surfaces of old adhesive (4), paint or bare metal thoroughly.
If surfaces of paint or bare metal come out, apply primer (2) for body with caution not to apply primer (2) to surface of adhesive remaining on body.

NOTE

- **Be sure to refer to primer maker's instruction for proper handling and drying time.**
- **Do not touch body and old adhesive surfaces where glass is to be adhered.**



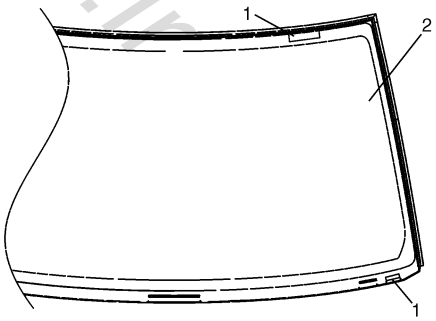
I2RH01950046-01

1.	Do not apply primer
3.	Apply primer

4) Install new molding to glass.
5) Clean glass surface to be adhered to body with clean cloth. If cleaning solvent is used, let it dry for 10 minutes or more.

Cleaning Area for windshield (distance from the edge of glass or molding)
30 – 50 mm (1.18 – 1.97 in.)

6) Install new fastener (1) to windshield (2).



I5JB0A950004-02

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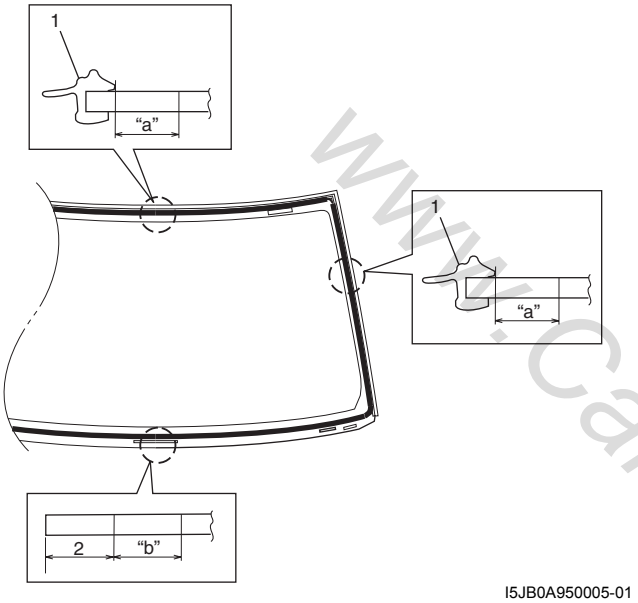
7) Using new brush, apply sufficient amount of primer onto glass along glass edge.

NOTE

- **Be sure to refer to maker's instruction for proper handling and drying time.**
- **Do not apply primer on outside of ceramic coated surface.**
- **Do not touch primer coated surface.**

Width applied primer for windshield
"a": 15 mm (0.59 in.)
"b": 20 mm (0.79 in.)



I5JB0A950005-01

1.	Molding
2.	21.4 mm (0.84 in.)

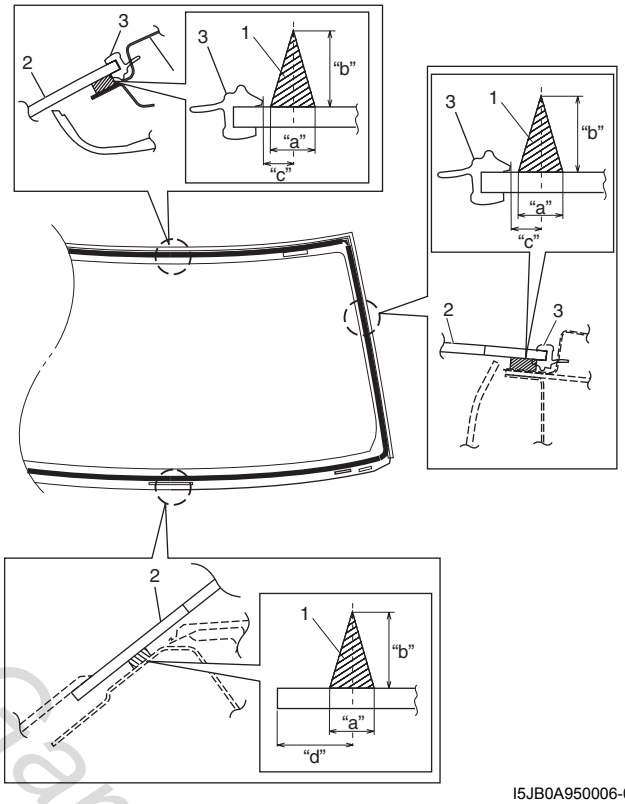
8) Apply primer for molding along molding surface all around.

9) Apply adhesive (1) referring to figure.

NOTE

- **Press glass (2) against fittings surface of body panel quickly after adhesive (1) is applied.**
- **Use of rubber sucker grip is helpful to hold and carry glass after adhesive (1) is applied.**
- **Perform steps 8) to 9) within 10 min. to ensure sufficient adhesion.**
- **Be sure to refer to adhesive maker's instruction for proper handling and drying time.**
- **Start from bottom side of glass (2).**
- **Be careful not to damage primer.**

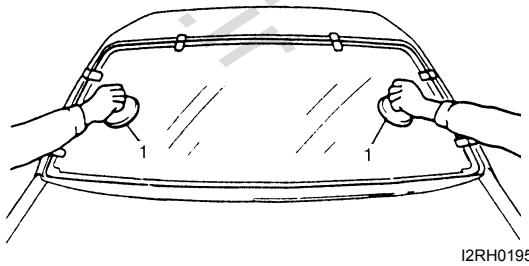
Adhesive amount specifications and position for windshield
Width "a": Approx. 7 mm (0.27 in.)
Height "b": Approx. 15 mm (0.59 in.)
Position "c": Approx. 4 mm (0.15 in.)
Position "d": Approx. 35 mm (1.38 in.) for bottom section



I5JB0A950006-02

3.	Molding

10) Holding rubber sucker grips (1), place glass onto body.



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11) Check for water leakage by pouring water over windshield through hose. If leakage is found, dry windshield and fill leaky point with adhesive. If water still leaks even after that, remove glass and start installation procedure all over again.

NOTE

- **Do not use high pressure water.**
- **Do not blow compressed air directly at adhesive applied part when drying.**
- **Do not use infrared lamp or like for drying.**

I2RH01950051-01

⚠ CAUTION

Upon completion of installation, note the following.

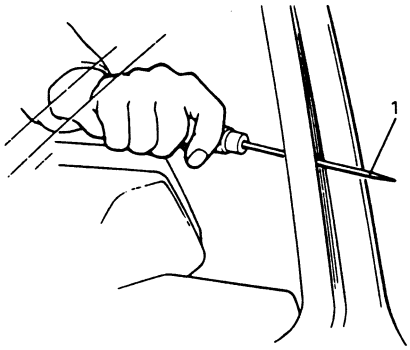
- **Sudden closing of door before adhesive is completely set may cause glass to become loose or to come off. Therefore, if door is opened or closed before adhesive is completely set, make sure to open all door glasses and use proper care.**
- **If molding is not securely in place, hold it down with a tape until adhesive is completely set.**
- **Each adhesive has its own setting time.**
- **Be sure to refer to its maker's instruction, check setting time of adhesive to be used and observe precautions to be taken before adhesive is set.**
- **Refrain from driving till adhesive is completely set so as to ensure proper and sufficient adhesion.**

Rear Quarter Window Removal and Installation

S5JB0A9506023

Removal

1) Clean both inside and outside of glass and around it.
2) Using tape, cover body surface around glass to prevent any damage.
3) If necessary, remove instrument panel. Refer to "Instrument Panel Removal and Installation: in Section 9C".
4) If necessary, remove quarter under trim, center pillar inner upper trim, rear pillar trim and head lining. Refer to "Head Lining Removal and Installation: in Section 9H".
5) Drill hole with eyeleteer (1) through adhesive and let piano string through it.



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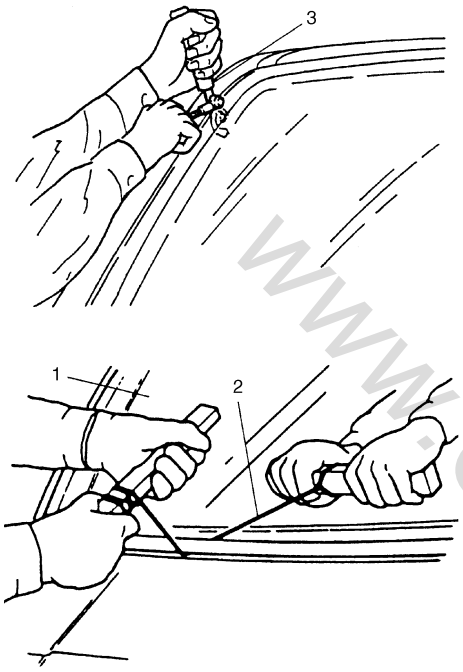
6) Cut adhesive all around rear quarter window (1) with piano string (2). When using tool, windshield knife (3), to cut adhesive, be careful not to cause damage to windshield. Use wire to cut adhesive along lower part of windshield.

NOTE

Use piano string (2) as close to glass as possible so as to prevent damage to body.

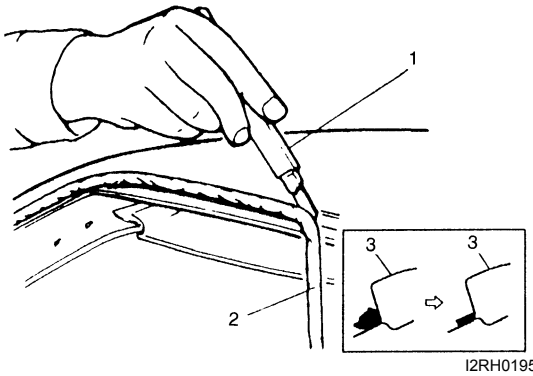


I3RH0A950006-01

7) Using knife (1), smoothen adhesive (2) remaining on body side (3) so that it is 1 – 2 mm (0.039 – 0.078 in.) thick all around.

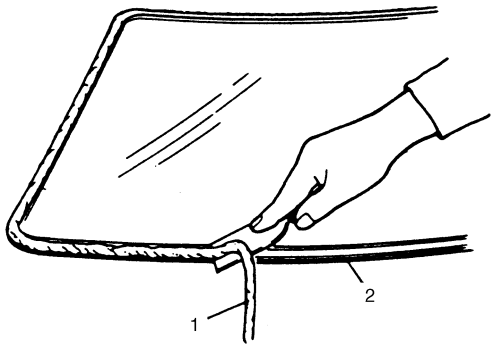
NOTE

Before using knife (1), clean it with alcohol or the like to remove oil from it.



I2RH01950042-01

8) When reusing rear quarter window, remove the adhesive (1) from it, using care not to damage primer coated surface (2).



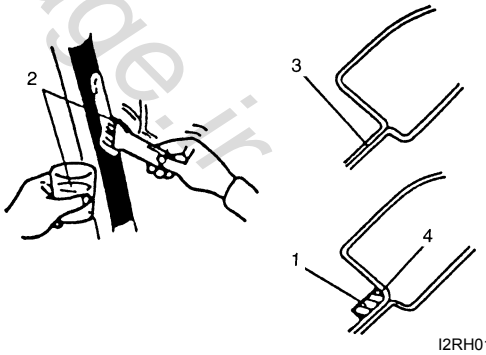
I2RH01950043-01

Installation

1) Using cleaning solvent, clean rear quarter window edge where rear quarter window glass is to be adhered. (Let it dry for more than 10 minutes.)
2) Clean contact surfaces of old adhesive (4), paint or bare metal thoroughly.
   If surfaces of paint or bare metal come out, apply primer (2) for body with caution not to apply primer (2) to surface of adhesive remaining on body.

NOTE

- **Be sure to refer to primer maker's instruction for proper handling and drying time.**
- **Do not touch body and old adhesive surfaces where glass is to be adhered.**



I2RH01950046-01

1.	Do not apply primer
3.	Apply primer

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3) Clean glass surface to be adhered to body with clean cloth. If cleaning solvent is used, let it dry for 10 minutes or more.

Cleaning Area for rear quarter window (distance from the edge of glass or molding)
30 – 50 mm (1.18 – 1.97 in.)

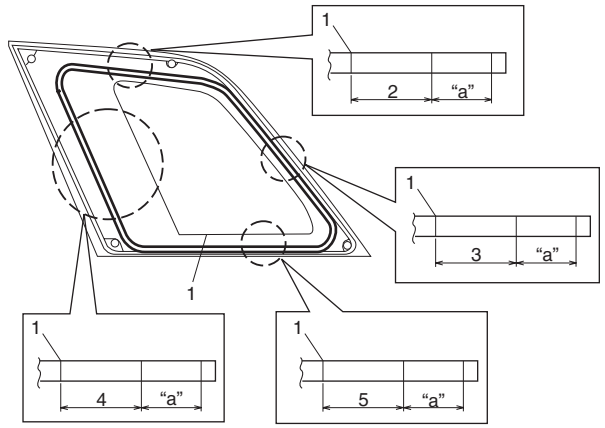
4) Using new brush, apply sufficient amount of primer onto glass along glass edge.

NOTE

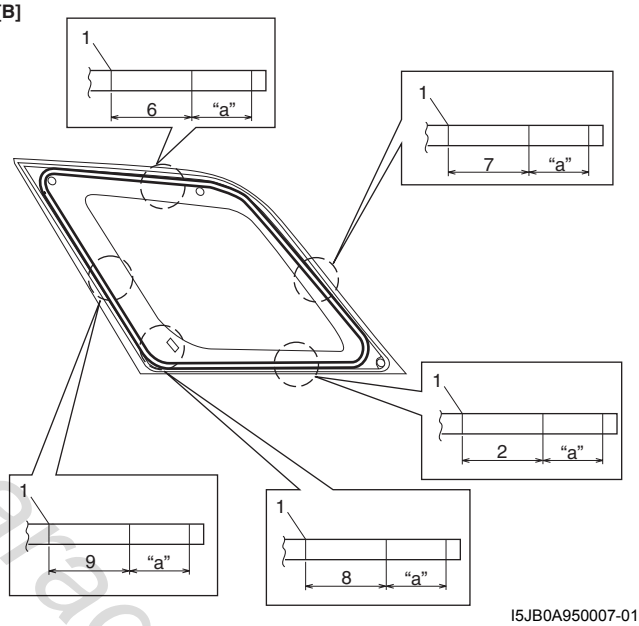
- **Be sure to refer to maker's instruction for proper handling and drying time.**
- **Do not apply primer on outside of ceramic coated surface.**
- **Do not touch primer coated surface.**

Width applied primer for rear quarter window
"a": 14 mm (0.55 in.)

[A]



[B]



I5JB0A950007-01

[A]: 5 door model	5. 23 mm (0.91 in.)
[B]: 3 door model	6. 35 mm (1.48 in.)
1. Ceramic print line	7. 20 mm (0.79 in.)
2. 13 mm (0.51 in.)	8. 29 mm (1.41 in.)
3. 18 mm (0.71 in.)	9. 19 mm (0.75 in.)
4. 88 mm (3.46 in.)	

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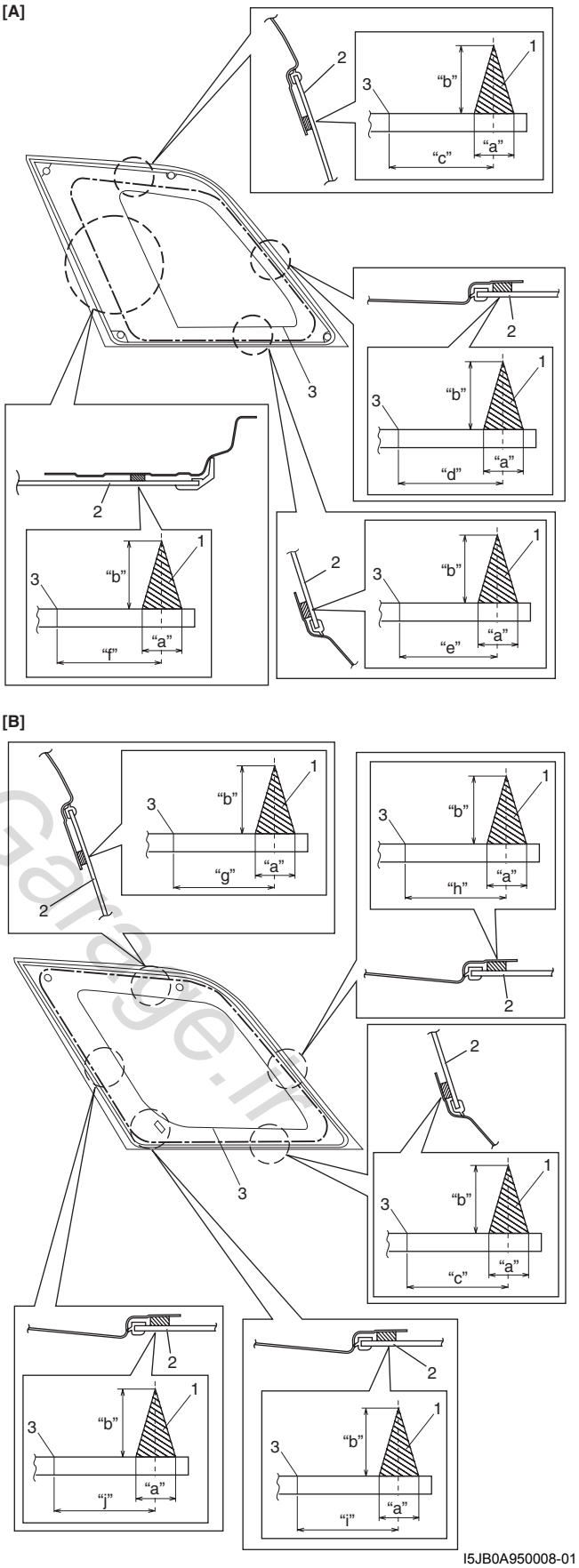
5) Apply primer for molding along molding surface all around.
6) Apply adhesive (1) referring to figure.

NOTE

- **Press glass (2) against fittings surface of body panel quickly after adhesive (1) is applied.**
- **Use of rubber sucker grip is helpful to hold and carry glass after adhesive (1) is applied.**
- **Perform steps 4) to 5) within 10 min. to ensure sufficient adhesion.**
- **Be sure to refer to adhesive maker's instruction for proper handling and drying time.**
- **Start from bottom side of glass (2).**
- **Be careful not to damage primer.**

Adhesive amount specifications and position for rear quarter window
Width "a": Approx. 7 mm (0.28 in.)
Height "b": Approx. 15 mm (0.59 in.)
Position "c": Approx. 20 mm (0.79 in.)
Position "d": Approx. 25 mm (0.98 in.)
Position "e": Approx. 30 mm (1.20 in.)
Position "f": Approx. 95 mm (3.75 in.)
Position "g": Approx. 42 mm (1.65 in.)
Position "h": Approx. 27 mm (1.06 in.)
Position "i": Approx. 36 mm (1.42 in.)
Position "j": Approx. 26 mm (1.02 in.)



I5JB0A950008-01

[A]: 5 door model	3. Ceramic print line
[B]: 3 door model	

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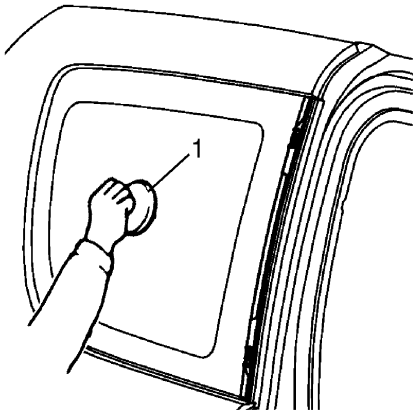
7) Holding rubber sucker grip (1), place glass onto body by aligning mating marks marked in step 3) and press it.

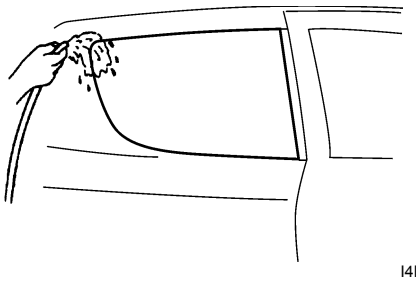


I4RS0B950004-01

8) Check for water leakage by pouring water over windshield through hose. If leakage is found, dry windshield and fill leaky point with adhesive. If water still leaks even after that, remove glass and start installation procedure all over again.

NOTE

- **Do not use high pressure water.**
- **Do not blow compressed air directly at adhesive applied part when drying.**
- **Do not use infrared lamp or like for drying.**



I4RS0B950005-01

⚠ CAUTION

Upon completion of installation, note the following.

- **Sudden closing of door before adhesive is completely set may cause glass to become loose or to come off. Therefore, if door is opened or closed before adhesive is completely set, make sure to open all door glasses and use proper care.**
- **If molding is not securely in place, hold it down with a tape until adhesive is completely set.**
- **Each adhesive has its own setting time.**
- **Be sure to refer to its maker's instruction, check setting time of adhesive to be used and observe precautions to be taken before adhesive is set.**
- **Refrain from driving till adhesive is completely set so as to ensure proper and sufficient adhesion.**

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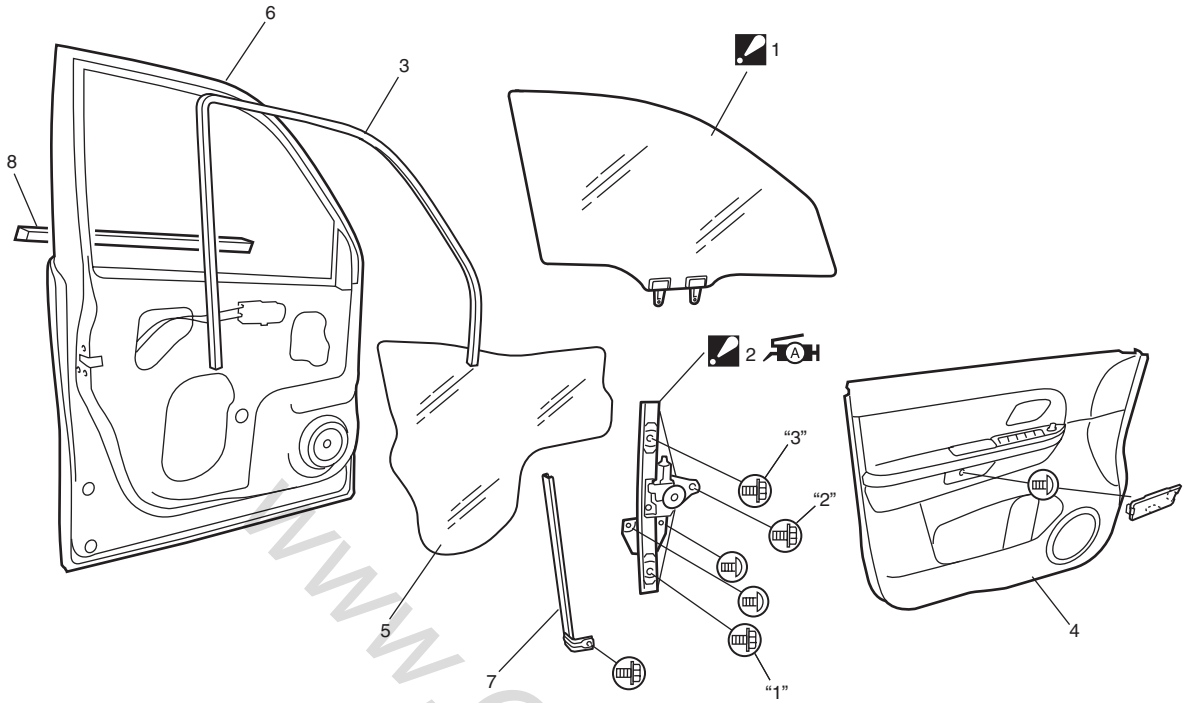
Front Door Window Components

S5JB0A9506002



I5JB0A950009-01

1. Door glass : Tightening order rear to front.	4. Door trim	7. Front door sash
2. Window regulator assembly : Apply lithium grease 99000-25010 to sliding part. : Tightening order "1" → "2" → "3".	5. Door sealing cover	8. Front door outer weather-strip
3. Glass run	6. Door panel	

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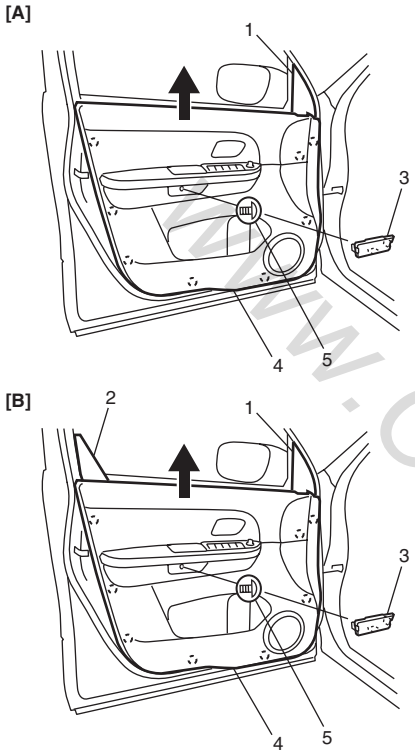
Front Door Glass Removal and Installation

S5JB0A9506003

Removal

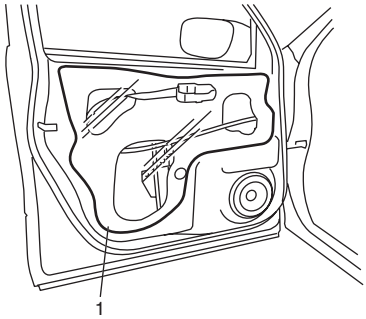
1) Remove door mirror trim (1), front door inner garnish (2) (3 door model only) and door trim screw cover (3).
2) Remove door trim screw (5).
3) Remove door trim (4) as shown.
   And disconnect power window switch lead wire and door illumination lamp lead wire at coupler.



I5JB0A950010-01

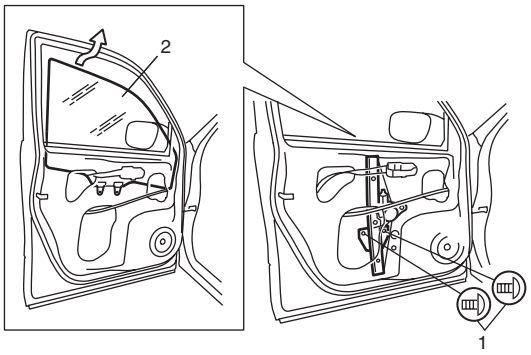
[A]: 5 door model	[B]: 3 door model

4) Remove door sealing cover (1).



I5JB0A950011-01

5) Remove door glass mounting screws (1).
6) Remove door glass (2) while tilting it as shown.

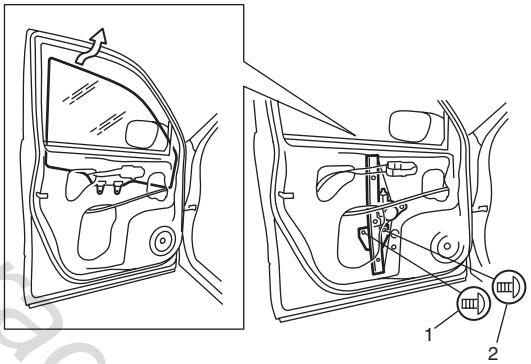


I5JB0A950012-01

Installation

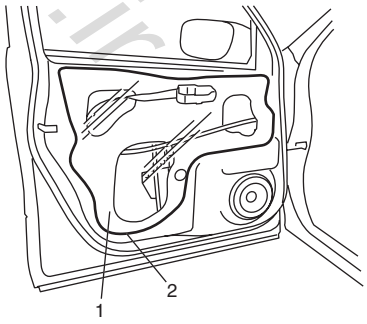
Reverse removal procedure noting the following instructions.

- If there is deformity for glass run, replace it with a new one.
- Tighten door glass rear mounting screw (1) first, and then tighten door glass front mounting screw (2).



I5JB0A950013-01

- Secure door sealing cover (1) with adhesive (2).



I5JB0A950014-01

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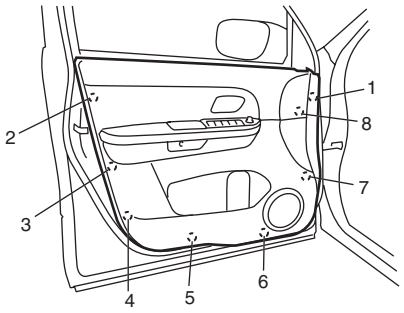
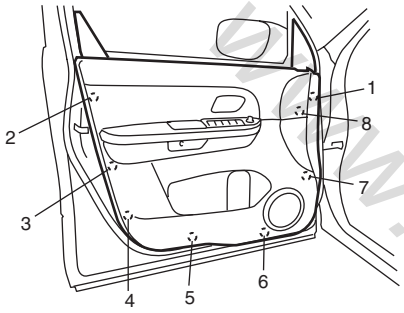
- Install front door trim.

Front door trim attaching order
(1) → (2) → (3) → (4) → (5) → (6) → (7) → (8)

[A]



[B]



I5JB0A950015-02

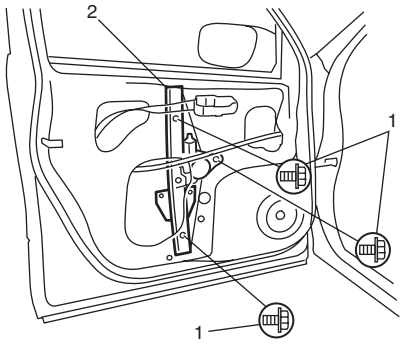
[A]: 5 door model	[B]: 3 door model

Front Door Window Regulator Removal and Installation

S5JB0A9506004

Removal

1) Remove door glass referring to “Front Door Glass Removal and Installation: ”.
2) Disconnect power window motor lead wire at coupler.
3) Remove regulator mounting screws (1), and then remove front door window regulator (2).



I5JB0A950016-01

Installation

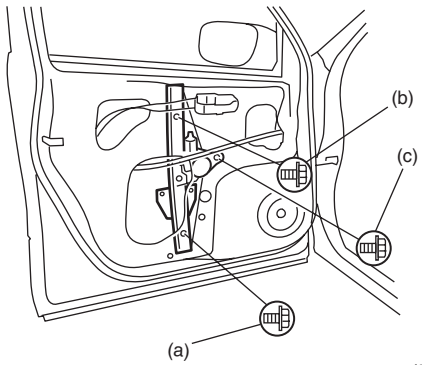
Reverse removal procedure noting the following instruction.

- Apply grease to sliding portions of window regulator.

  : Grease 99000–25010

- Tighten front door window regulator attaching screws.

Front door window regulator screw tightening order
(a) → (b) → (c)



I5JB0A950017-01

Front Door Window Regulator Inspection

S5JB0A9506005

Check the following parts for wear, damage, smooth operation and lubrication:

- Check regulator sliding and rotating parts.
- Check rollers.

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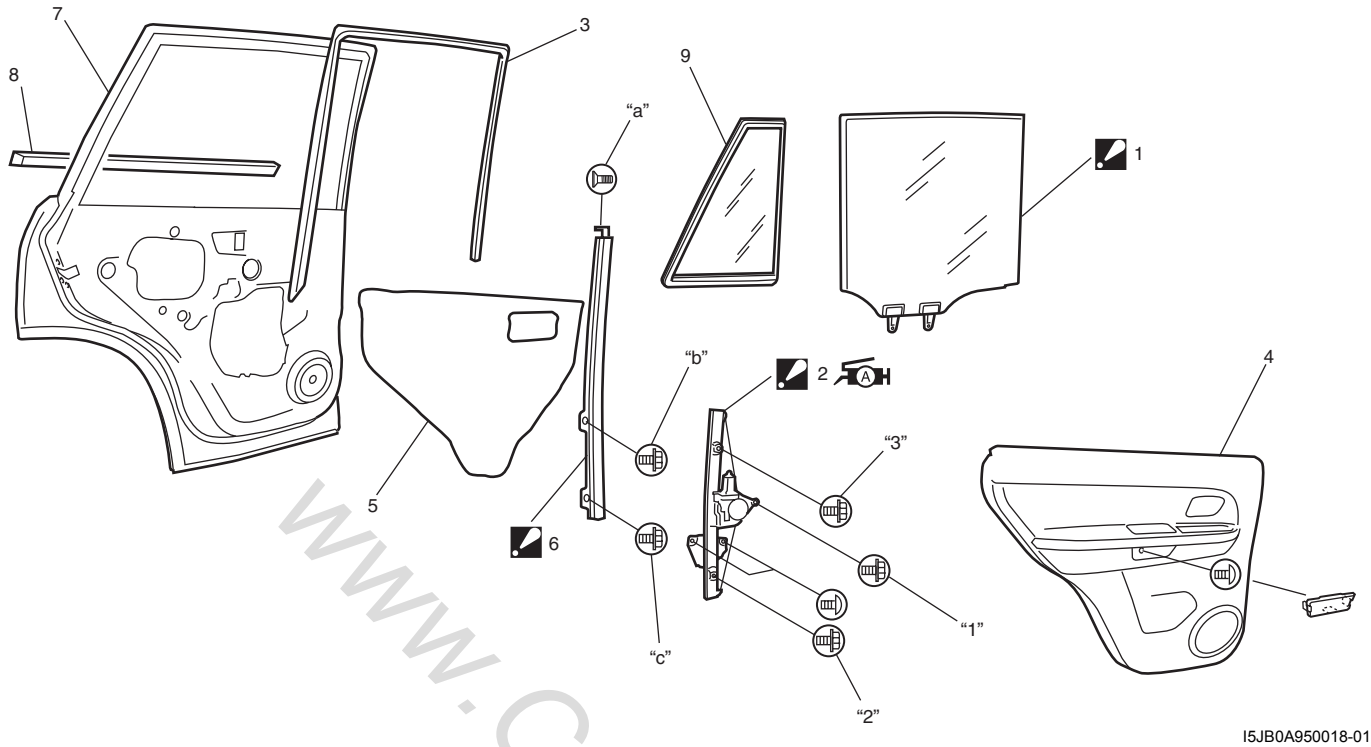
Rear Door Window Components

S5JB0A9506006



I5JB0A950018-01

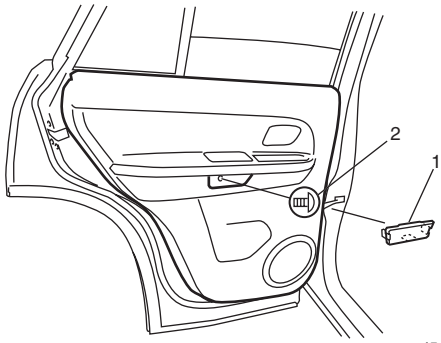
1. Door glass : Tightening order rear to front.	4. Door trim	7. Door panel
2. Window regulator assembly : Apply lithium grease 99000-25010 to sliding part. : Tightening order "1" → "2" → "3".	5. Door sealing cover	8. Rear door outer weather-strip
3. Glass run	6. Door sash : Tightening order "a" → "b" → "c".	9. Rear door partition glass.

Rear Door Glass Removal and Installation

S5JB0A9506007

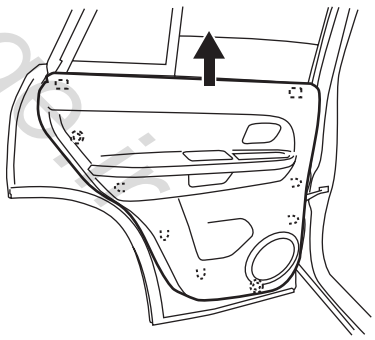
Removal

1) Remove door trim screw cover (1).
2) Remove door trim screw (2).



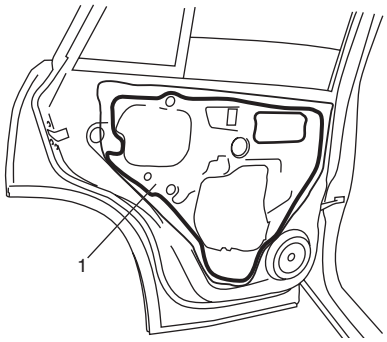
I5JB0A950019-01

3) Remove door trim (1) as shown.



I5JB0A950020-01

4) Remove door sealing cover (1).



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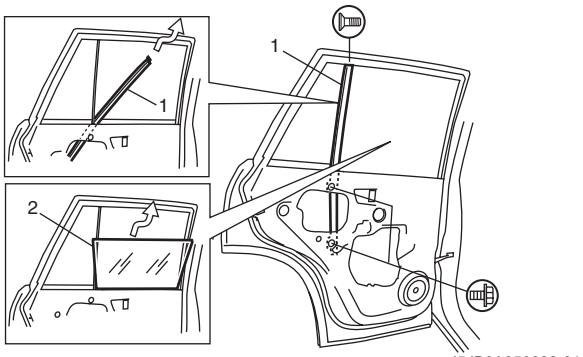
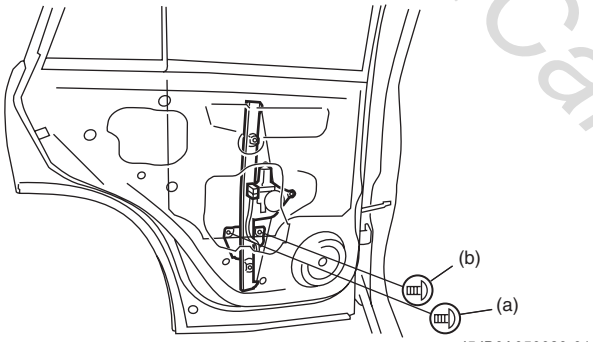
5) Detach rear part of glass run from door sash (1), and remove door sash (1).
6) Remove door glass (2) as shown.



I5JB0A950022-01

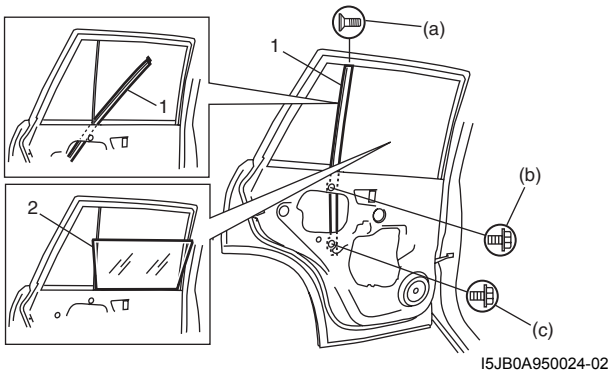
Installation
Reverse removal procedure noting the following instructions.

- If there is deformity for glass run, replace it with a new one.
- Tighten rear door window mounting screw (a) first and then (b).



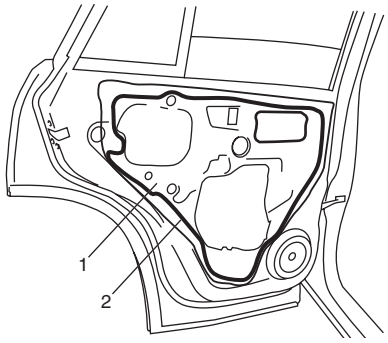
I5JB0A950023-01

- Tighten door sash mounting screw and bolts in order of (a), (b) and (c).



I5JB0A950024-02

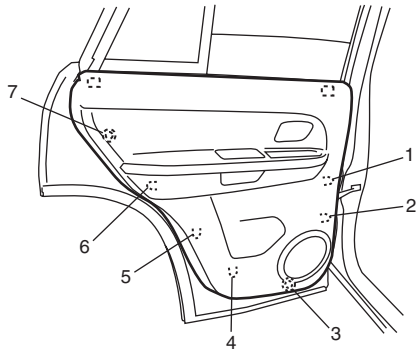
- Secure door sealing cover (1) with adhesive (2).



I5JB0A950025-01

- Install rear door trim.

Rear door trim attaching order
(1) → (2) → (3) → (4) → (5) → (6) → (7)



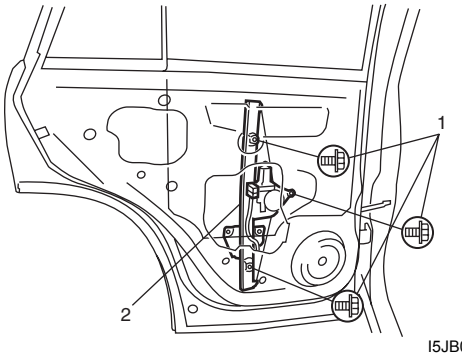
I5JB0A950026-01

Rear Door Window Regulator Removal and Installation

S5JB0A9506008

Removal

1) Remove door glass referring to “Rear Door Glass Removal and Installation: ”.
2) Disconnect power window motor lead wire at coupler and loosen clamp.
3) Loosen regulator mounting screws (1), and then remove rear window regulator (2).



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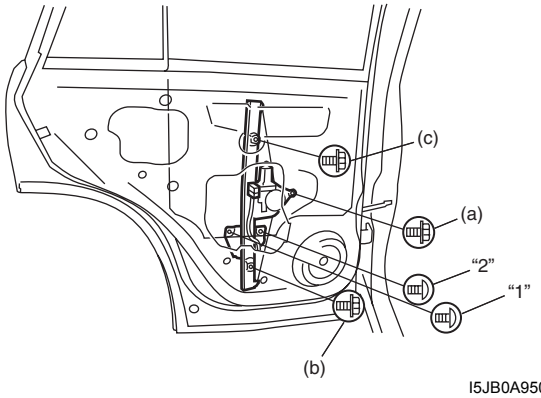
Installation

Reverse removal procedure noting the following.

- Apply grease to sliding and rotating portions of window regulator.

  : Grease 99000–25010

- Tighten rear door window regulator mounting screw (1) first and then (2).
- Tighten rear door window mounting screws in order of (a), (b) and (c).



I5JB0A950028-01

Rear Door Window Regulator Inspection

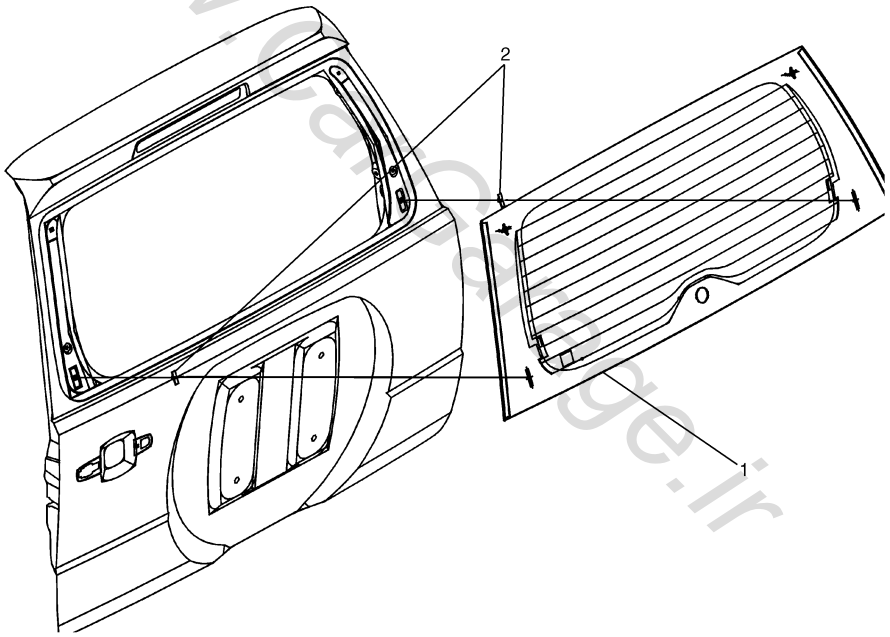
S5JB0A9506009

Check the following point:

- Check regulator sliding and rotating parts.
- Check rollers for wear and damage.

Rear End Door Window Components

S5JB0A9506010



I5JB0A950029-01

1. Rear end door glass	2. Fastener

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Rear End Door Glass Removal and Installation

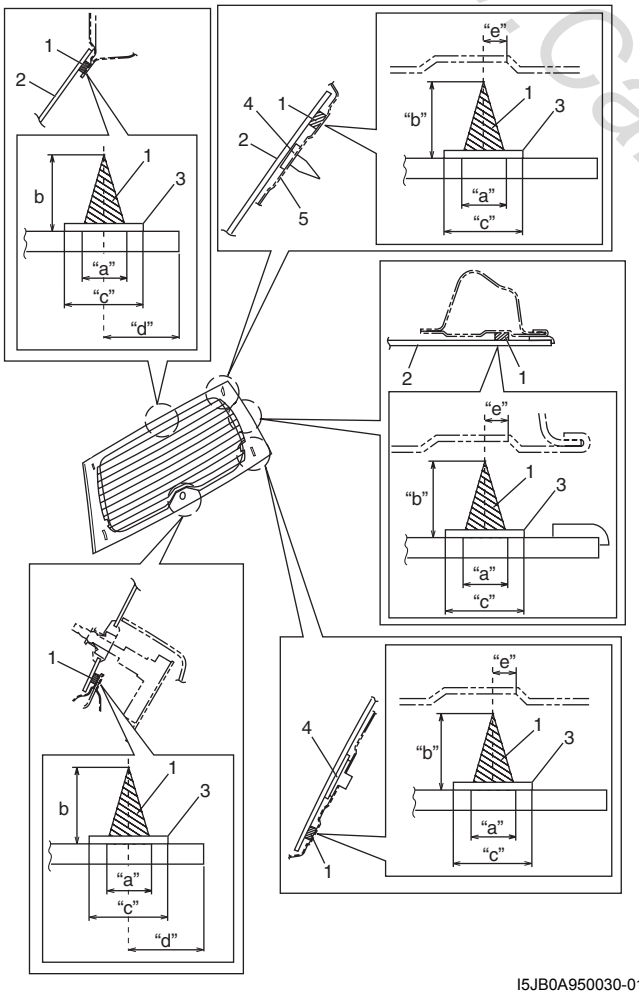
S5JB0A9506011

Refer to “Windshield Removal and Installation: ” as removal and installation procedures are basically the same. However, note the following.

- Observe the following precautions when applying adhesive (1) along glass (2) edge.
- Adhesive (1) should be applied evenly especially in height.
- Be careful not to damage primer (3).
- With the position of fastener (4) properly aligned, install glass (2) on rear end door panel (5).
- Press glass against body quickly after adhesive (1) is applied.

Adhesive amount specifications and position for rear end door glass

Height “a”: 14 mm (0.55 in.)
Width “b”: 7 mm (0.28 in.)
Width “c”: 16 mm (0.63 in.)
Position “d”: 15 mm (0.59 in.) for glass upper and bottom section
Position “e”: 8 mm (0.31 in.)

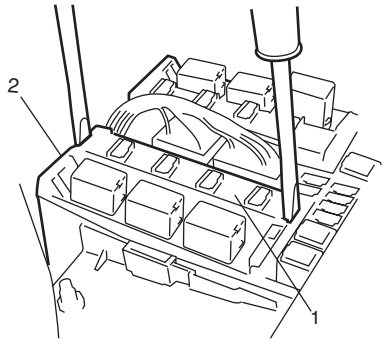


I5JB0A950030-01

Rear End Door Window Defogger Relay Inspection

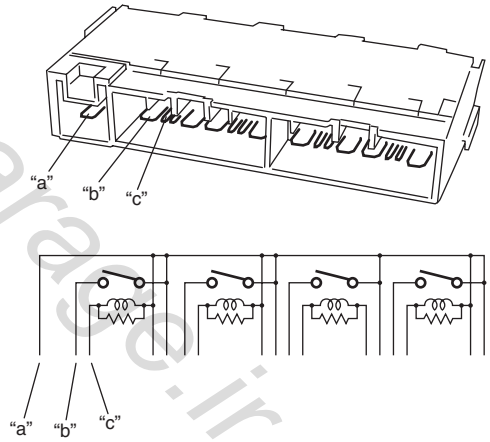
S5JB0A9506013

1) Disconnect negative (–) cable from battery.
2) Remove rear end door window defogger relay (included in integration relay) (1) from main fuse box (2).



I5JB0A950031-01

3) Check that there is no continuity between terminal “a” and “b”. If there is continuity, replace relay.
4) Check that there is continuity between terminals “a” and “b” when a 12 V battery is connected to terminals “a” and “c”.
   If malfunction is found, replace it with a new one.



I5JB0A950032-02

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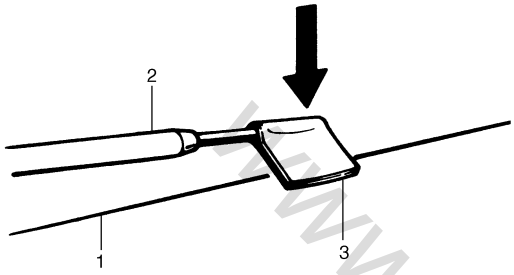
Rear End Door Window Defogger Wire Inspection

S5JB0A9506014

NOTE

- **When cleaning rear end door window glass, use a dry cloth to wipe it along heat wire (1) direction.**
- **When cleaning glass, do not use detergent or abrasive-containing glass cleaner.**
- **When measuring wire voltage, use a tester with positive probe (2) wrapped with a tin foil (3) which should be held down on wire by finger pressure.**



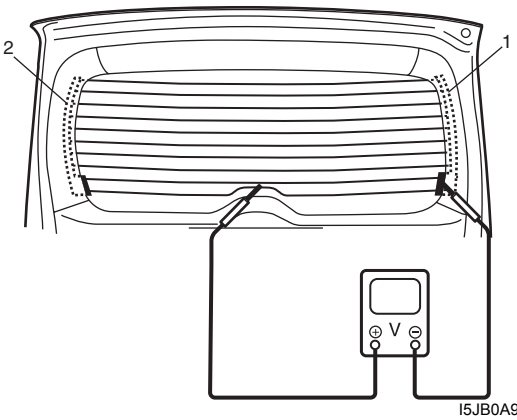
I2RH01950002-01

Wire Damage Inspection

1) Start engine.
2) Turn on defogger switch.
3) Measure voltage at the center of each defogger wire (1), and check defogger wire condition according to the following table.
   If defogger wire open is found, go to next step.

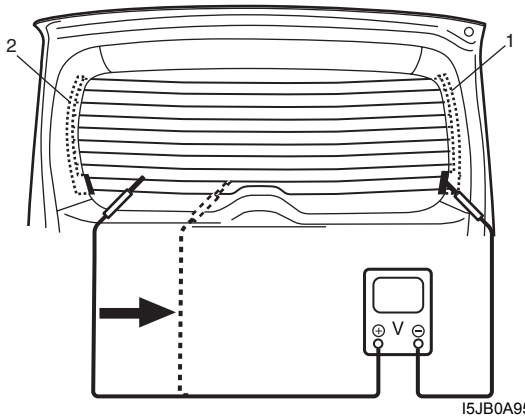
Defogger wire voltage

Voltage	Circuit
10 – 12 V	**Defogger wire open between its center and defogger wire power source terminal end (2)**
4 – 6 V	**Normal condition**
0 – 1 V	**Defogger wire open between its center and defogger wire ground terminal end (3)**



I5JB0A950033-01

4) Touch voltmeter negative (–) lead to defogger wire ground terminal end (1).
5) Touch voltmeter positive (+) lead with a foil strip to defogger wire power source terminal end (2), then move it along wire to defogger wire ground terminal end (1).
   The place where voltmeter fluctuates from 10 – 12 V to 0 – 1 V is where there is open.
   If found defective, repair defogger wire referring to “Rear End Door Window Defogger Wire Repair: ”.

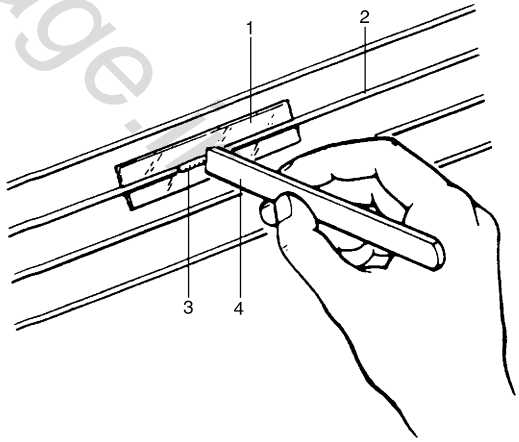


I5JB0A950034-01

Rear End Door Window Defogger Wire Repair

S5JB0A9506015

1) Use white gasoline for cleaning.
2) Apply masking tape (1) at both upper and lower sides of heat wire (2) to be repaired.
3) Apply commercially-available repair agent (3) with a fine-tip brush (4).
4) 2 to 3 minutes later, remove masking tapes (1).



I2RH01950005-01

5) Leave repaired heat wire as it is for at least 24 hours before operating the defogger again.

Power Window Main Switch Inspection

S5JB0A9506016

Switch for driver side window

1) Remove driver side door trim referring to step 1) to 3) of “Front Door Glass Removal and Installation: ”.
2) Remove power window main switch from door trim.

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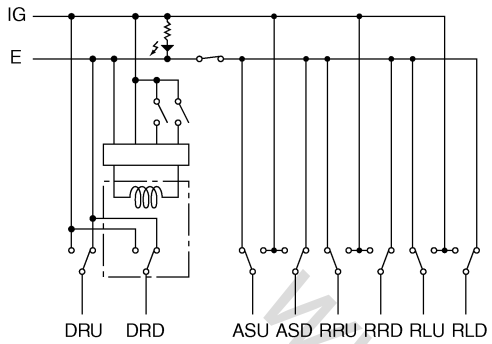
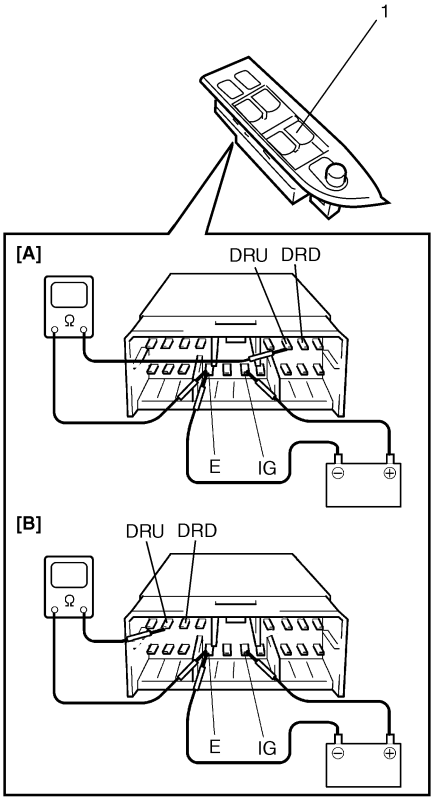
3) Connect 12 V battery positive (+) terminal to terminal "IG" of power window main switch and its negative (–) terminal to terminal "E" of power window main switch.
4) Check for continuity between terminals as shown below.
If check result is not as specified, replace power window main switch.



Driver side window switch (1)	IG	DRU	DRD	E
UP	○	○		○
OFF			○	○
DOWN	○		○	



I5JB0A950035-03

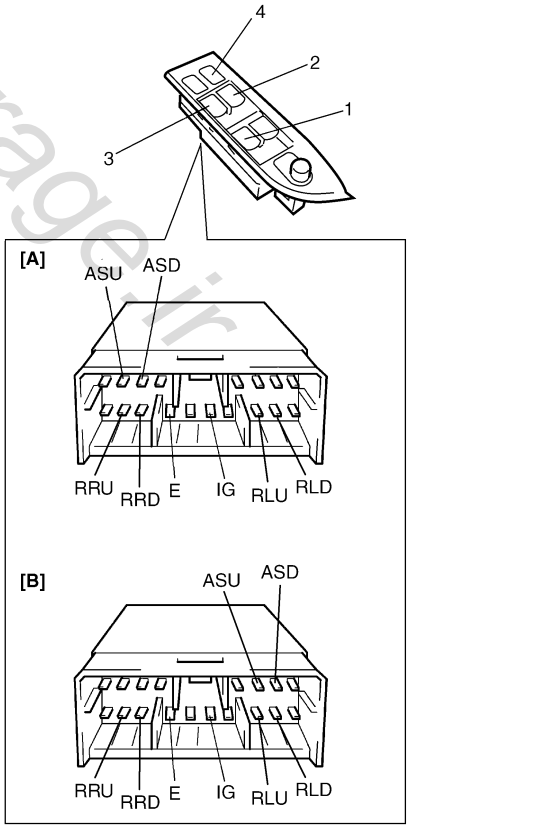
[A]: LH steering vehicle
[B]: RH steering vehicle

Switch for other window than driver side

1) Remove driver side door trim referring to step 1) to 3) of "Front Door Glass Removal and Installation: ".
2) Remove power window main switch from door trim.
3) Check for continuity between terminals as shown below.

If check result is not as specified, replace power window main switch.

Passenger side window switch (1)		IG	ASU	ASD	E
Rear right side window switch (2)		IG	RRU	RRD	E
Rear left side window switch (3)		IG	RLU	RLD	E
UNLOCK (4)	UP	○	○		○
	OFF		○	○	○
	DOWN	○		○	
			○		○
LOCK (4)	UP	○	○		
	OFF		○	○	
	DOWN	○		○	



I5JB0A950036-02

[A]: LH steering vehicle
[B]: RH steering vehicle

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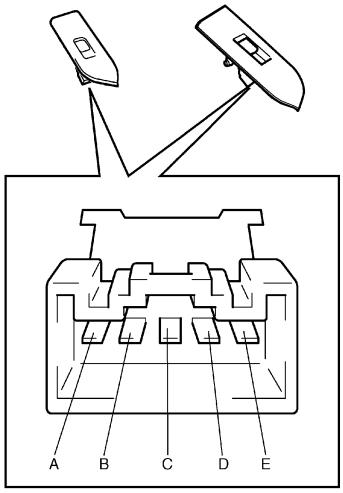
Power Window Sub Switch Inspection

S5JB0A9506017

1) Remove front and/or rear door trim from door panel, refer to Step 1) to 3) of “Front Door Glass Removal and Installation: ” and/or “Rear Door Glass Removal and Installation: ”.
2) Remove power window sub switch from door trim.
3) Check for continuity between terminals at each switch condition.

If check result is not as specified, replace switch.

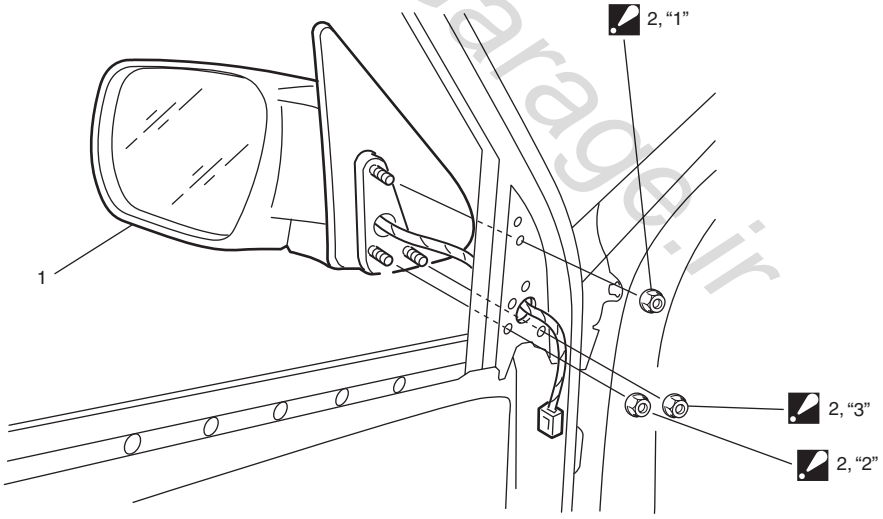
Switch Position \ Terminal	A	B	C	D	E
UP	○——	——○			○
OFF	○——	——○		○	○
DOWN		○——	——○	○	○



I5JB0A950037-01

Door Mirror Components

S5JB0A9506018



I5JB0A950038-02

	1. Door mirror
◢	2. Door mirror mounting nut :Tighten nuts in such order as indicated in the figure.

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Door Mirror Removal and Installation

S5JB0A9506019

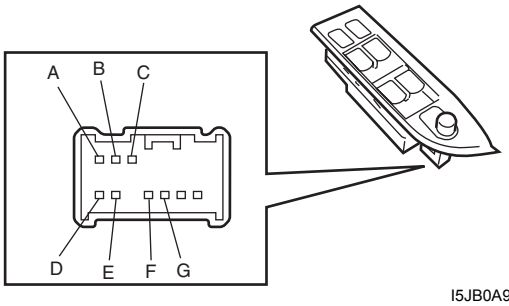
When removing or installing door mirror, refer to the figure in “Door Mirror Components: ”.

Power Door Mirror Switch Inspection (If Equipped)

S5JB0A9506020

1) Remove driver side door trim referring to step 1) to 3) of “Front Door Glass Removal and Installation: ”.
2) Remove power window main switch from door trim.
3) Check for continuity between terminals at each switch position.
   If check result is not as specified, replace door mirror switch.

L / R	A / B	C	D	E / F	G
Up		○		○	○
Down		○		○	○
Left	○	○		○	
Right	○	○		○	



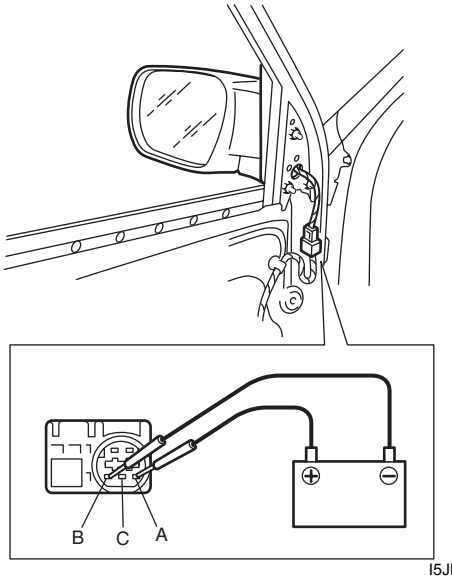
I5JB0A950039-01

Power Door Mirror Actuator Inspection (If Equipped)

S5JB0A9506021

1) Remove door trim referring to step 1) to 3) of “Front Door Glass Removal and Installation: ”.
2) Disconnect door mirror coupler (1).
3) Check that door mirror operates properly when battery voltage is applied to connector terminals.
4) Connect battery positive (+) and negative (–) terminal to the door mirror terminals as shown.
   If it does not follow the table’s operation, replace door mirror assembly.

Operation \ Terminal	A	B	C
Up	⊕		⊖
Down	⊖		⊕
Left		⊕	⊖
Right		⊖	⊕

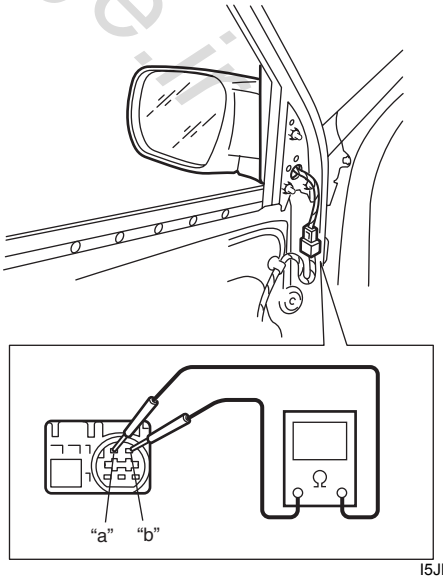


I5JB0A950040-01

Door Mirror Heater Inspection (If Equipped)

S5JB0A9506022

1) Remove door trim referring to step 1) to 3) of “Front Door Glass Removal and Installation: ”.
2) Disconnect door mirror connector (1).
3) Check for continuity between terminals “a” and “b”.
   If no continuity, replace outside mirror.



I5JB0A950041-01

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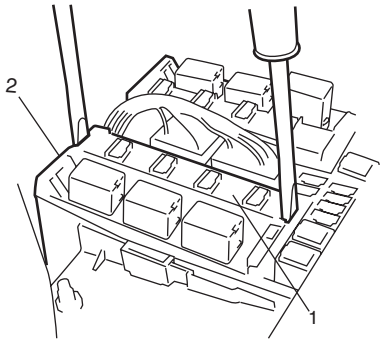
Door Mirror Heater Relay Inspection (If Equipped)

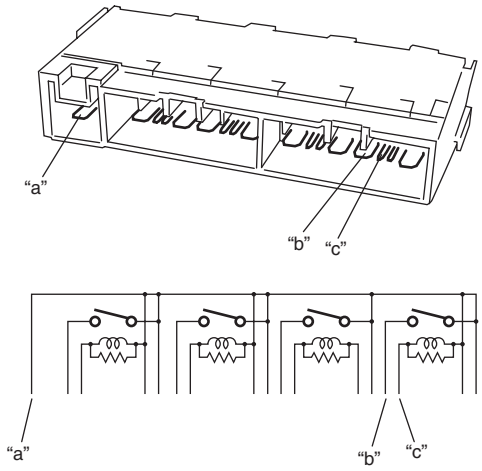
S5JB0A9506024

1) Disconnect negative (–) cable from battery.
2) Remove door mirror heater relay (included in integration relay) (1) from main fuse box (2).



I5JB0A950031-01

3) Check that there is no continuity between terminals “a” and “b”.
   If there is continuity, replace relay.
4) Check that there is continuity between terminals “a” and “b” when a 12 V battery is connected to terminal “a” and “c”.
   If malfunction is found, replace integration relay.



I5JB0A950042-02

Special Tools and Equipment

Recommended Service Material

S5JB0A9508001

Material	SUZUKI recommended product or Specification		Note
Grease	SUZUKI Super Grease A	P/No.: 99000–25010	☞ / ☞

NOTE

Required service material is also described in the following.
“Front Door Window Components: ”
“Rear Door Window Components: ”

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Security and Locks

General Description

Key Coding Construction

S5JB0A9601001

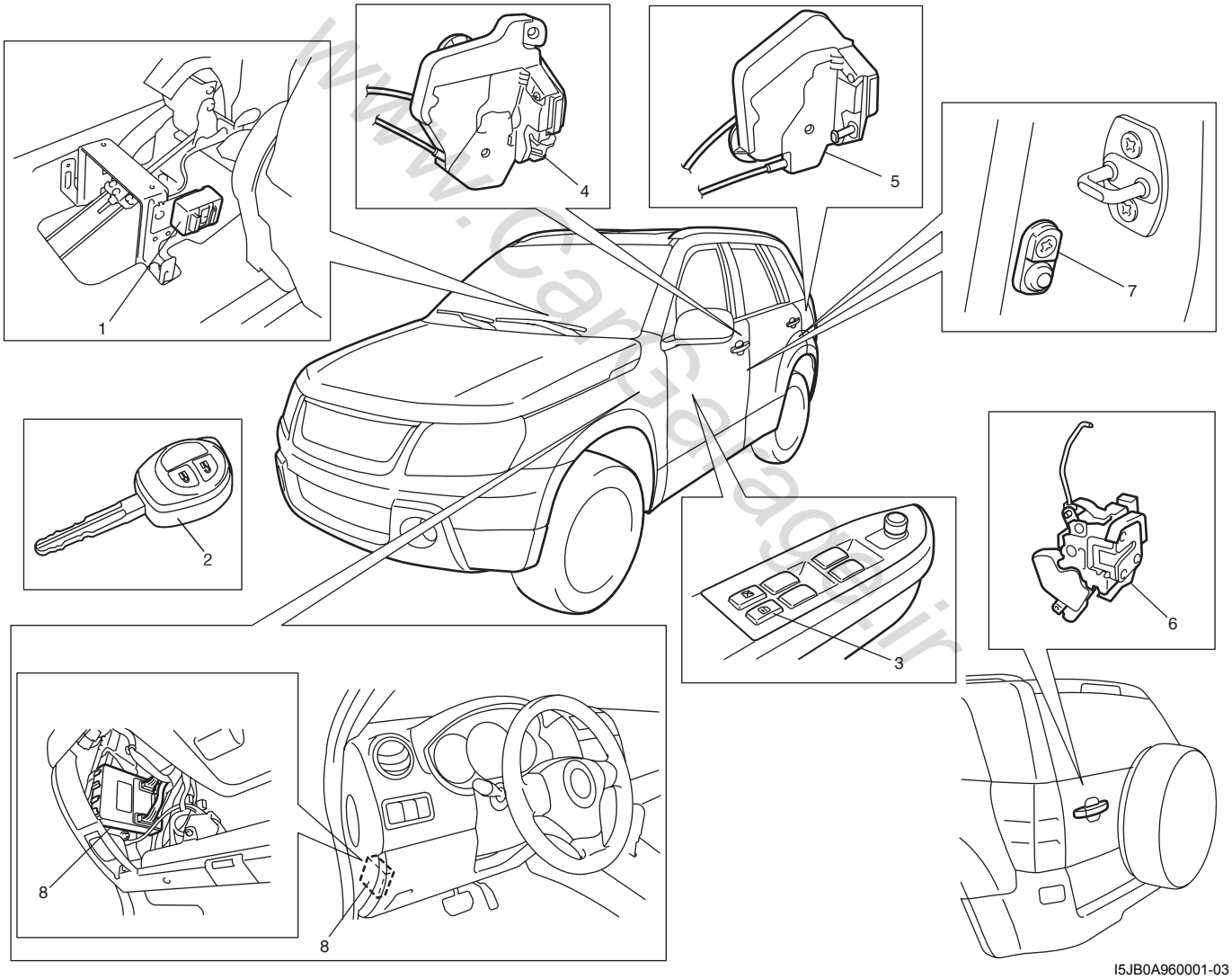
Key Usage and Identification

Key is used for ignition and door lock cylinders. Key is cut on both edges to make them reversible.
Key identification is obtained from five character key code stamped on key code tag. Using this key code, key code cutting combination can be determined from a code list (available to owners of key cutting equipment from suppliers).

Component Location

Power Door Lock and Keyless Entry System Component Location

S5JB0A9603001



I5JB0A960001-03

1. Keyless entry receiver	3. Power door lock switch	5. Rear door actuator (5 door model only)	7. Door switch
2. Transmitter	4. Front door actuator	6. Rear end door actuator	8. BCM

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Diagnostic Information and Procedures

Power Door Lock System Symptom Diagnosis

S5JB0A9604001

NOTE

- **Use of SUZUKI scan tool makes it easy to check whether a faulty condition is on the input side or output side of BCM. For checking procedure, refer to "Diagnosis Using Output Test Function of SUZUKI Scan Tool" under "Scan Tool Data: in Section 10B".**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
All door can not be locked / unlocked by all of switches	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
All door can not be locked / unlocked by only power door lock switch	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Power door lock switch faulty	*Check power door lock switch referring to "Power Door Lock Switch Inspection: ".*
	Wiring harness connected to power door lock switch faulty	*Repair.*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
All door can not be locked / unlocked by only key cylinder switch	Circuit fuse blown	*Replace fuse and check for short circuit.*
	Key cylinder switch faulty	*Check key cylinder switch referring to "Door Key Cylinder Switch Inspection: ".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Only one door can not be locked / unlocked	Power door lock actuator faulty	*Check actuator referring to "Power Door Lock Actuator Inspection (If Equipped): ".*
	Wiring harness connected to applicable door lock actuator faulty	*Repair.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

Power Door Lock System Operation Inspection

S5JB0A9604002

1) Check the following operation:
   a) Turn the driver side key cylinder is turned LOCK once, check all doors lock.
   b) Turn the driver side door key cylinder is turned UNLOCK position with door key twice, check all doors unlock.
   c) With all doors unlocked, insert key in key cylinder of driver side door and turn it to lock side, turn it again to lock side within 3 seconds and check that no door can be opened even when door lock knob is moved to unlock side.

If malfunction is found, go to "Power Door Lock System Symptom Diagnosis: ".

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Keyless Entry System Symptom Diagnosis (If Equipped)

S5JB0A9604004

NOTE

- **Confirm that power door lock system is in good condition before referring to the following possible causes.**
- **Check each part in the order from the top of the following list.**

Condition	Possible cause	Correction / Reference Item
All door can not be locked / unlocked by only keyless entry transmitter	Transmitter battery dead	*Replace battery referring to "Replacement of Transmitter Battery: ".*
	Door switch faulty	*Check door switch referring to "Door Switch (Front / Rear / Rear End Door) Inspection: in Section 9C".*
	Transmitter faulty	*Replace transmitter.*
	Key remainder switch in ignition switch faulty	*Check ignition switch referring to "Ignition Switch Inspection: in Section 9C".*
	Wiring or grounding faulty	*Repair circuit.*
	Keyless entry receiver faulty	*Check keyless entry receiver referring to "Keyless Entry Receiver and Its Circuit Inspection: ".*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Turn signal lights can not be flashed when doors are locked / unlocked by keyless entry transmitter	Turn signal and hazard warning relay faulty	*Check turn signal and hazard warning relay referring to "Turn Signal and Hazard Warning Relay Inspection: in Section 9B".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Interior light does not light when doors are unlocked by keyless entry transmitter	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Hazard warning lights do not light when doors are locked/unlocked by keyless entry transmitter	Turn signal and hazard warning relay faulty	*Check turn signal and hazard warning relay referring to "Turn Signal and Hazard Warning Relay Inspection: in Section 9B".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*
Transmitter code can not be programmed to BCM	Door switch faulty	*Check door switch referring to "Door Switch (Front / Rear / Rear End Door) Inspection: in Section 9C".*
	Keyless entry receiver faulty	*Check keyless entry receiver referring to "Keyless Entry Receiver and Its Circuit Inspection: ".*
	Key reminder switch in ignition switch faulty	*Check ignition switch referring to "Ignition Switch Inspection: in Section 9C".*
	Wiring or grounding faulty	*Repair circuit.*
	BCM faulty	*Replace after making sure that none of above parts is faulty.*

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Keyless Entry System Operation Inspection

S5JB0A9604005

1) Confirm that power door lock system operates normally, refer to “Power Door Lock System Operation Inspection: ”.
2) All doors are closed and unlocked.
3) Check the following operation:
   a) Push “lock” button (1) on transmitter (2) or remote controller once, and check all doors lock and hazard waning lights flash once.
   b) Push “unlock” button (3) on transmitter (2) or remote controller twice, and check all doors unlock and hazard waning lights flash twice and interior light turns on several seconds with the interior light switch in the middle position.

If malfunction is found, go to “Keyless Entry System Symptom Diagnosis (If Equipped): ”.

Door Lock Function of Keyless Start System Symptom Diagnosis (If Equipped)

S5JB0A9604010

Proceed to “Keyless Start System Symptom Diagnosis: in Section 10E” in case that doors cannot be locked and unlocked by operating the request switch at the outside door handle.

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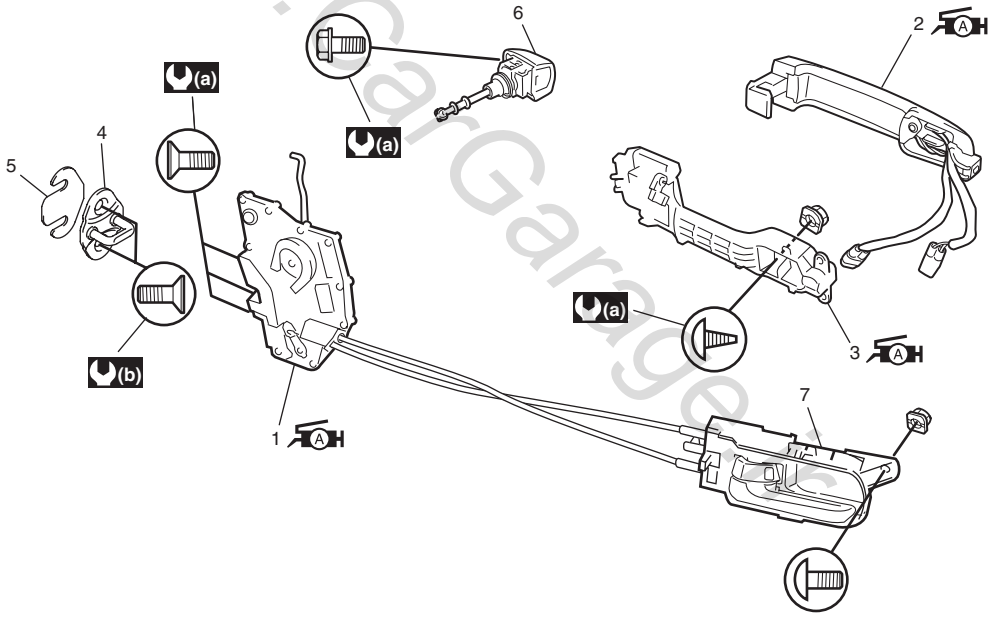
Repair Instructions

Front Door Lock Assembly Components

S5JB0A9606001



I5JB0A960002-02

1. Front door latch assembly : Apply lithium grease 99000-25010 to sliding and rotating parts and spring if any.	4. Latch striker	7. Inside handle bezel
2. Outside handle assembly : Apply lithium grease 99000-25010 to sliding part.	5. Shim	(a) : 5.0 N·m (0.5 kgf-m, 4.0 lb-ft)
3. Outside handle frame : Apply lithium grease 99000-25010 to sliding part and spring.	6. Key cylinder	(b) : 10 N·m (1.0 kgf-m, 7.5 lb-ft)

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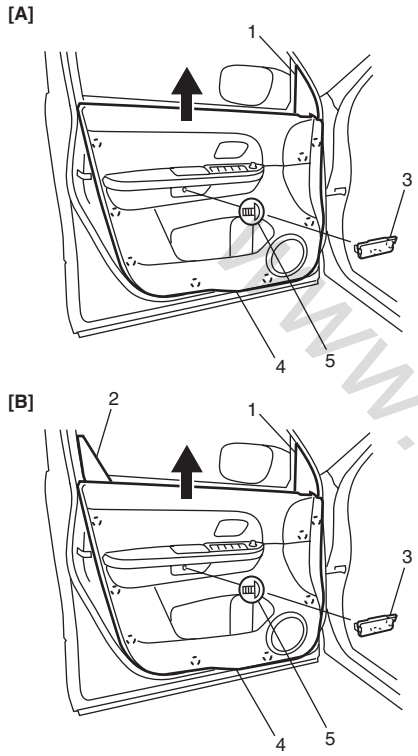
Front Door Lock Assembly Removal and Installation

S5JB0A9606002

Removal

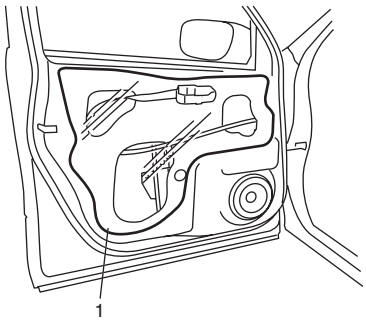
1) Remove door mirror trim (1), front door inner garnish (2) (3 door model only) and door trim screw cover (3).
2) Remove door trim (4) after removing door trim screw (5) and clips.



I5JB0A950010-01

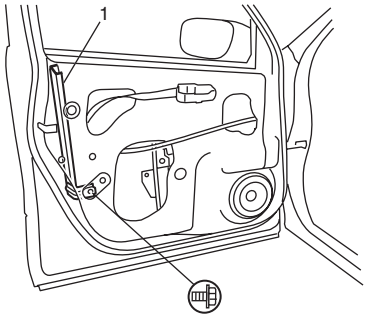
[A]: 5 door model	[B]: 3 door model

3) Disconnect door illumination lamp lead wire and power window switch and mirror switch lead wire at coupler.
4) Remove door sealing cover (1).



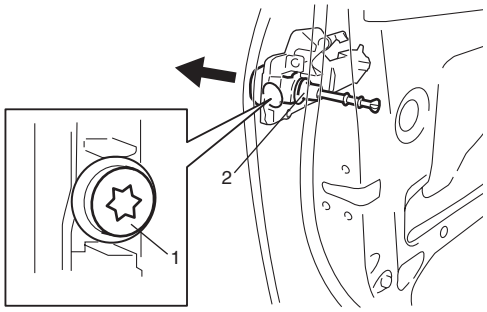
I5JB0A950011-01

5) Raise window all the way up.
6) Remove door sash (1).



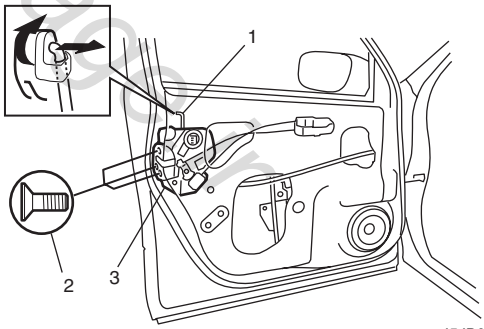
I5JB0A960003-01

7) Remove key cylinder mounting bolt (1), and then remove key cylinder (2).



I4RS0B960005-01

8) Disconnect door opening control rod (1) from outside handle.
9) Disconnect door lock motor lead wire at coupler.
10) Remove door latch screws (2) and remove door lock assembly (3).



I5JB0A960004-01

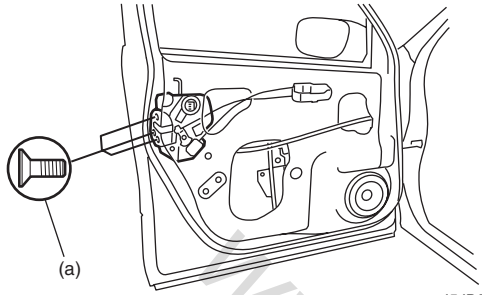
Installation
Reverse removal procedure to install front door lock assembly noting the following instructions.

- Apply grease to sliding parts of door latch assembly.

  : Grease 99000–25010

- Tighten door latch screws to specified torque.

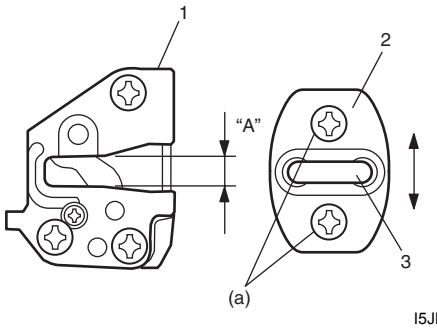
Tightening torque
Door latch screw (a): 5.0 N·m (0.5 kgf-m, 4.0 lb-ft)



I5JB0A960005-01

- Move door latch striker (2) up or down so its center aligns with the center of groove "A" on the door lock assembly (1) as shown.
  Striker should be moved vertically and placed level.
  Do not adjust door lock.

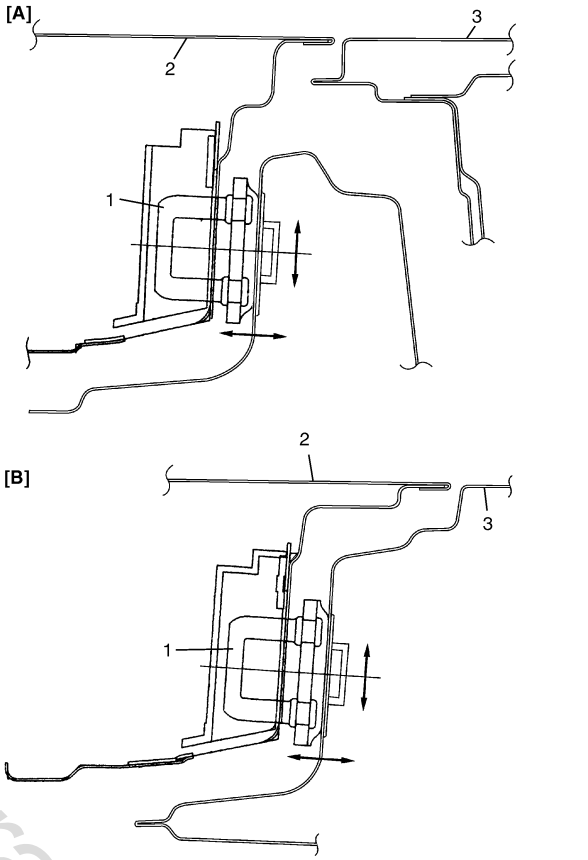
Tightening torque
Door latch striker screw (a): 10 N·m (1.0 kgf-m, 7.5 lb-ft)



I5JB0A960006-01

3. Shaft

- Move door latch striker (1) sideways to adjust door outer panel surface (2) flush with rear door outer panel or body outer panel surface (3) as shown.
  In order to correctly obtain door lock operation increase or decrease number of shims inserted between body and striker (1) to adjust it.



I3RM0A960013-01

[A]: Front door (5 door model)
[B]: Rear door (5 door model) or front door (3 door model)

Front Door Lock Assembly Inspection

S5JB0A9606003

- Check that door open and closes smoothly and properly.
- Check that door stops in the secondary latched position properly (preventing door from opening freely) and that door closed completely in the fully latched position.
- Adjust door latch striker position, if necessary.

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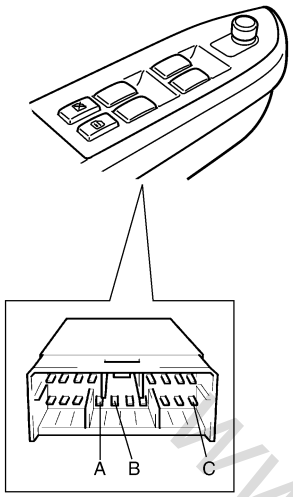
Power Door Lock Switch Inspection

S5JB0A9606004

Check for continuity between terminals at each switch position. If check result is not as specified, replace switch.



Switch \ Terminal	A	B	C
LOCK	○		○
OFF			
UNLOCK	○	○	

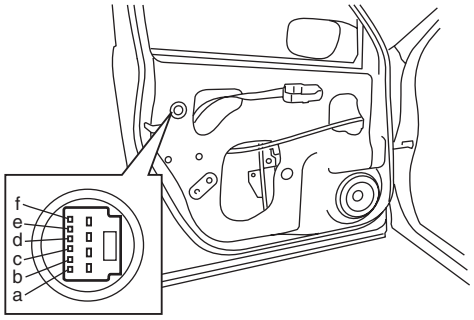
I5JB0A960007-01

1. Power door lock switch

Door Key Cylinder Switch Inspection

S5JB0A9606005

1) Remove front door trim referring to Step 1) to 3) of "Front Door Glass Removal and Installation: in Section 9E"
2) Check for continuity between terminals at each switch position. If check result is not as specified, replace door lock assembly.



Right side switch terminals	d	a	b
Left side switch terminals	c	f	e
LOCK	○		○
OFF			
UNLOCK	○	○	

I5JB0A960008-01

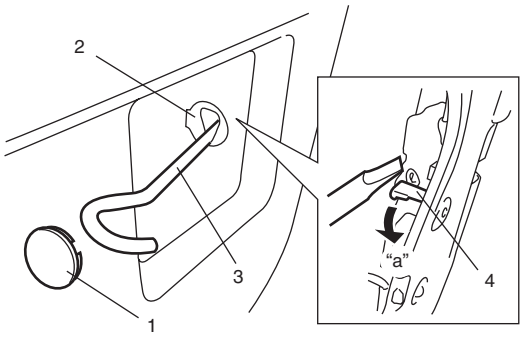
Power Door Lock Actuator Inspection (If Equipped)

S5JB0A9606006

NOTE

If rear end door is closed and the rear end door lock actuator does not function in unlock position, follows the procedures to unlock the rear end door lock actuator.

1. **Remove cap (1).**
2. **Penetrate door sealing cover (2) by jack lever (3) or whatever to insert jack lever, and push emergency lever (4) into unlock position "a".**

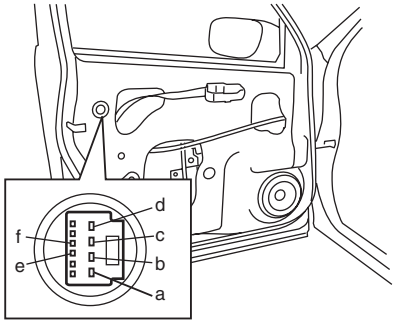


I5JB0A960022-01

3. **After inspection replace door sealing cover.**

1) Remove door trim from door panel.
For front door, refer to Step 1) to 3) of "Front Door Glass Removal and Installation: in Section 9E".
For rear door, refer to Step 1) to 3) of "Rear Door Glass Removal and Installation: in Section 9E".
For rear end door, refer to Step 1) of "Rear End Door Assembly Removal and Installation: in Section 9J".
2) Disconnect power door lock actuator coupler.
3) Connect battery positive (+) and negative (–) terminals to the door lock actuator terminals (a, b, c, d) as shown in figure.
If it does not operate as specified in the following table, replace door lock assembly.

For front door



[A]

Terminals			a	d
Lock	→	Unlock	⊕	⊖
Unlock	→	Lock	⊖	⊕

Terminals	f	g
Lock		
Unlock	○——	——○

[B]

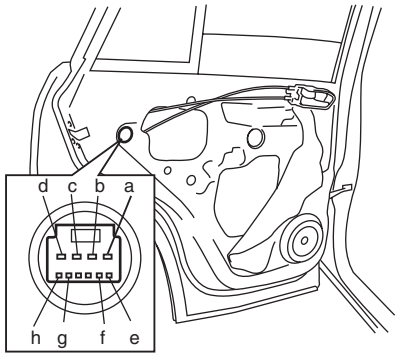
Right side switch terminals			a	b	c	d
Left side switch terminals			c	d	a	b
Lock	→	Unlock	⊕	⊖		
Unlock	→	Lock	⊖	⊕		
Deadlock	→	Unlock			⊕	⊖
Lock	→	Deadlock			⊖	⊕

Terminals	f	g
Lock		
Unlock	○——	——○

I5JB0A960009-01

[A]: Without deadlock	[B]: With deadlock

For rear door



[A]

Terminals			a	d
Lock	→	Unlock	⊕	⊖
Unlock	→	Lock	⊖	⊕

Terminals	f	g
Lock		
Unlock	○——	——○

[B]

Right side switch terminals			c	d	a	b
Left side switch terminals			a	b	c	d
Lock	→	Unlock	⊕	⊖		
Unlock	→	Lock	⊖	⊕		
Deadlock	→	Lock			⊕	⊖
Lock	→	Deadlock			⊖	⊕

Right side switch terminals	g	h
Left side switch terminals	e	f
Lock		
Unlock	○——	——○

I5JB0A960010-01

[A]: Without deadlock	[B]: With deadlock

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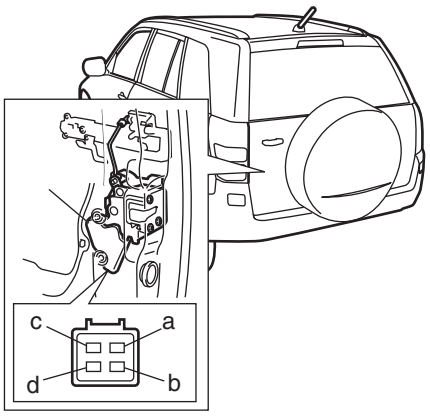
For rear end door



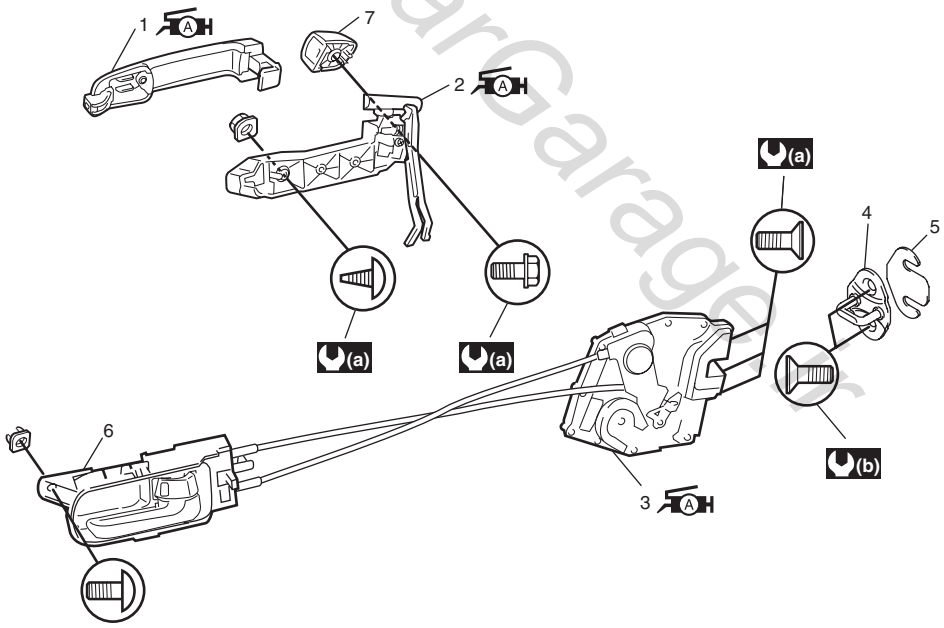
Terminals			a	b
Lock	→	Unlock	⊕	⊖
Unlock	→	Lock	⊖	⊕

Terminals	c	d
Lock		
Unlock	○	○

I5JB0A960011-01

Rear Door Lock Assembly Components

S5JB0A9606007



I5JB0A960012-03

A H 1. Outside handle : Apply lithium grease 99000-25010 to sliding part.	4. Latch striker	7. Out side handle cap
A H 2. Outside handle frame : Apply lithium grease 99000-25010 to sliding part and spring.	5. Shim	(a) : 5.0 N·m (0.5 kgf-m, 4.0 lb-ft)
A H 3. Rear door latch assembly : Apply lithium grease 99000-25010 to sliding part.	6. Inside handle bezel	(b) : 10 N·m (1.0 kgf-m, 7.5 lb-ft)

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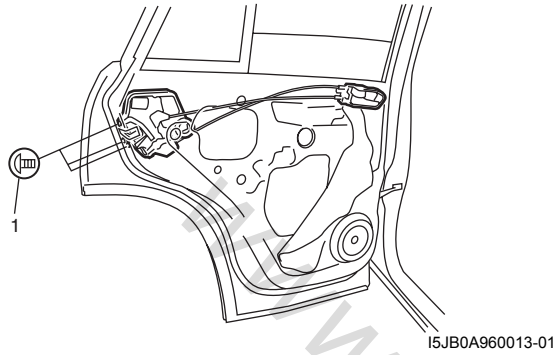
Rear Door Lock Assembly Removal and Installation

S5JB0A9606008

Removal

1) Remove rear door trim referring to step 1) to 3) of "Rear Door Glass Removal and Installation: in Section 9E".
2) Disconnect door lock motor lead wire.
3) Remove door latch mounting screws (1) and remove door latch assembly (2).



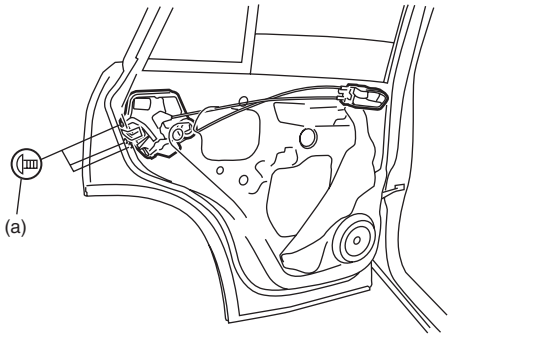
I5JB0A960013-01

Installation

Reverse removal procedure to install rear door lock assembly referring to the following instruction and "Front Door Lock Assembly Removal and Installation: ".

- Tighten door latch screw to specified torque.

Tightening torque
Door latch screw (a): 5.0 N·m (0.5 kgf-m, 4.0 lb-ft)



I5JB0A960014-01

Rear Door Lock Assembly Inspection

S5JB0A9606009

- Check that door opens and closes smoothly and properly.
- Check that door stops in the secondary latched position properly (preventing door from opening freely) and that door closes completely in the fully latched position.
- Adjust door latch striker position, if necessary.

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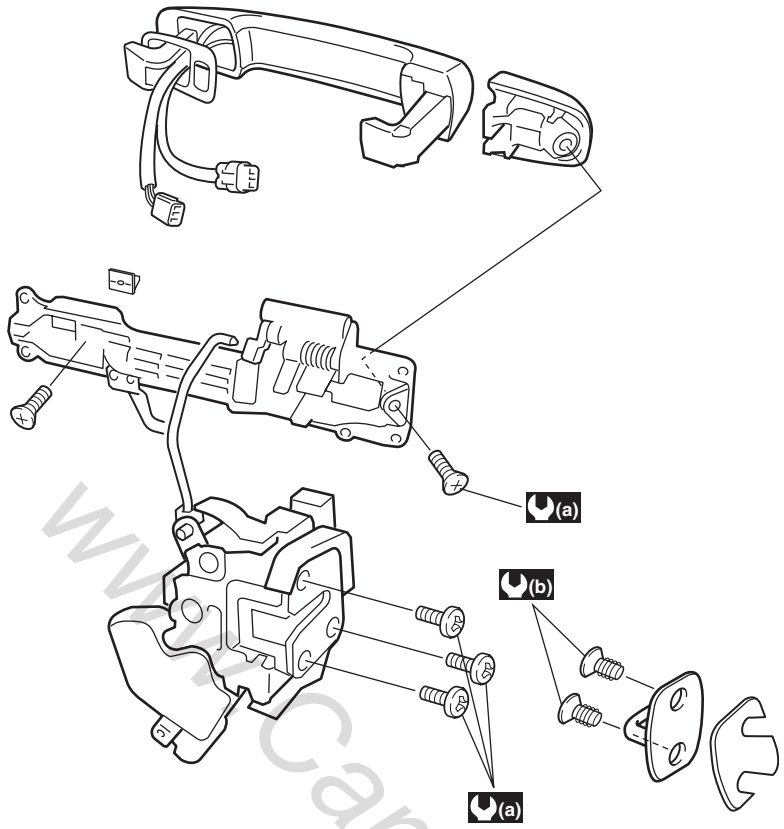
Rear End Door Lock Assembly Components

S5JB0A9606010



I5JB0A960015-01

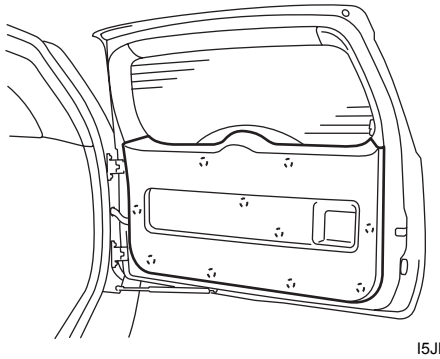
1. Rear end door latch assembly (rear end door switch is built in this assembly)	4. Shim	7. Rear end door request switch
2. Rear end door opener switch	5. Door handle	(a) : 10 N·m (1.0 kgf-m, 7.5 lb-ft)
3. Latch striker	6. Emergency lever	(b) : 23 N·m (2.3 kgf-m, 17.0 lb-ft)

Rear End Door Lock Assembly Removal and Installation

S5JB0A9606011

Removal

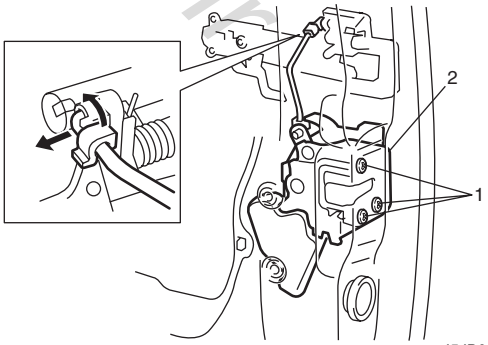
1) Remove door trim (1) from rear end door panel (2).



I5JB0A960016-01

2) Disconnect door lock motor lead wire and door opening control rod.

3) Loosen door latch bolts (1) and remove door latch assembly (2).



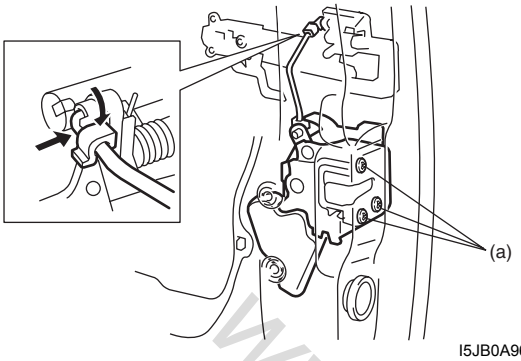
I5JB0A960017-01

Installation

Reverse removal procedure to install rear end door lock assembly noting the following instruction.

- Tighten rear end door latch bolt to specified torque.

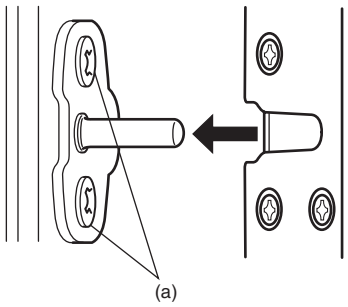
  Tightening torque
  Rear end door latch bolt (a): 10 N·m (1.0 kgf-m, 7.5 lb-ft)



I5JB0A960018-01

- Adjust door latch striker so that its center aligns with the center of groove in door latch base.

  Tightening torque
  Rear end door striker screw (a): 23 N·m (2.3 kgf-m, 17.0 lb-ft)



I5JB0A960019-01

Rear End Door Lock Assembly Inspection

S5JB0A9606012

- Check that door opens and closes smoothly and properly.
- Check that door stops in the secondary latched position properly (preventing door from opening freely) and that door closes completely in the fully latched position.
- Adjust door latch striker position, if necessary.

Replacement of Transmitter Battery

S5JB0A9606014

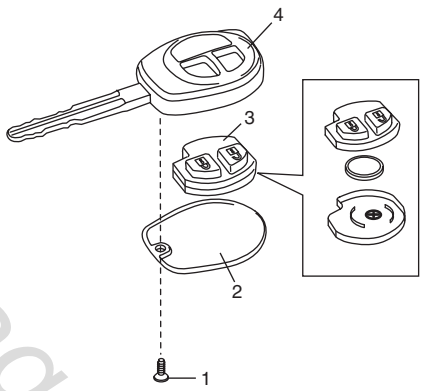
If transmitter becomes unreliable, replace transmitter battery as follows.

1) Remove screw (1) and transmitter cover (2).
2) Remove transmitter (3) from transmitter holder (4).

⚠ CAUTION

Use care not to allow grease or dirt to be attached on the printed circuit board and the battery.

3) With tip of flat blade screwdriver put in slot of transmitter, pry it open.
4) Replace the battery (lithium disc-type CR 1620 or equivalent battery) so its (+) terminal faces "+" mark on transmitter.
5) Fit together transmitter (3) and install it into transmitter holder (4).
6) Install transmitter cover (2) and screw (1).
7) Make sure that door locks can be operated with transmitter.



I4RS0B960014-01

NOTE

- **To prevent theft, be sure to break the transmitter before discarding it.**
- **Dispose of the used battery properly according to applicable rules or regulations. Do not dispose of lithium batteries with ordinary household trash.**

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Programming Transmitter Code for Keyless Entry System (Vehicle without Keyless Start System)

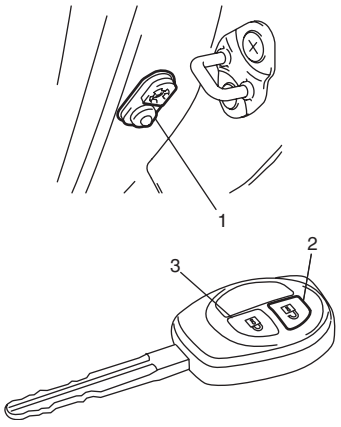
S5JB0A9606015

NOTE

- **Three transmitter codes can be registered.**
- **When a new transmitter code is registered, the oldest one will be cleared.**
- **As for vehicle equipped with keyless start system, perform "Registration Procedure for Remote Controller ID Code: in Section 10E" instead of "Programming Transmitter Code for Keyless Entry System (Vehicle without Keyless Start System): ".**

If transmitter or BCM is replaced with a new one or additional transmitter(s) is necessary, program transmitter code(s).

1) Confirm that all doors are closed and ignition key is out of ignition key cylinder
2) Open driver side door.
3) Turn ignition switch to ON position, and then drawn ignition key from ignition key cylinder within 10 seconds after that.
4) Push and release driver side door switch (1) at 3 times by hand within 20 seconds after removing ignition key from ignition key cylinder.
5) Turn ignition switch to ON position, and then drawn ignition key from ignition key cylinder within 10 seconds after that. All doors automatically lock and unlock once.
   With this, registration mode.
6) Push "UNLOCK" button (2) on transmitter (3) within 20 seconds after Step 5). All doors automatically lock and unlock once.
   With this, code registration is completed.
7) If an additional transmitter, needs to be programed repeat the procedure of Step 1).



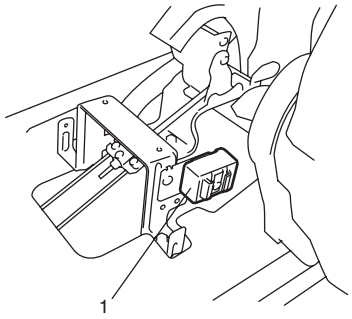
I4RS0B960010-01

Keyless Entry Receiver Removal and Installation

S5JB0A9606016

Removal

1) Disconnect negative cable at battery.
2) Remove console box from vehicle body referring to "Console Box Components: in Section 9H".
3) Disconnect keyless entry receiver coupler.
4) Remove keyless entry receiver (1).



I5JB0A960020-01

Installation

Reverse removal procedure.

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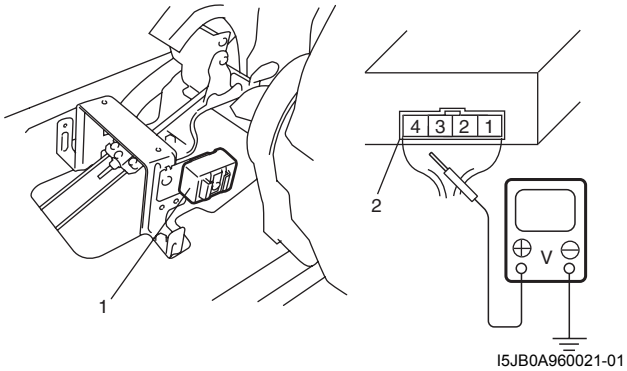
Keyless Entry Receiver and Its Circuit Inspection

S5JB0A9606017

1) Check that the voltage between the following terminals and body ground are specifications under each conditions. If check result is not as specified, check applicable circuit for open or short. If circuit is normal, proceed to next step.



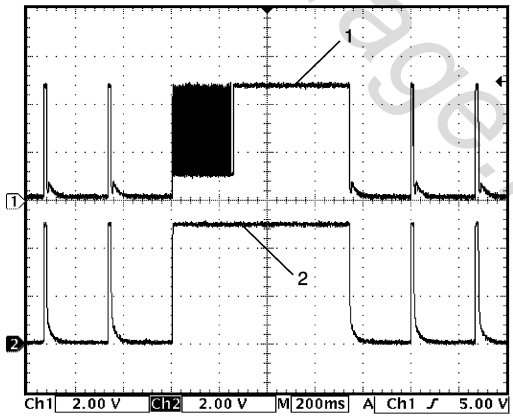
I5JB0A960021-01

1. Keyless entry receiver
2. Keyless entry receiver connector (view from harness side)

Terminal	Circuit	Specification	Condition
L44-1	Power source	Figure [A]	Push “Lock” or “Unlock” button on transmitter.
		0-1 V	Except the above-mentioned condition.
L44-3	Lock/Unlock output signal circuit	Figure [A]	Push “Lock” or “Unlock” button on transmitter.
		0-1 V	Except the above-mentioned condition.
L44-4	Ground	0-1 V	—

Oscilloscope setting
CH1: 2V/DIV
CH2: 2V/DIV
TIME: 200 ms/DIV

[A]



I4RS0A960024-01

1. Lock/Unlock out put signal
2. Power source

1) Recheck keyless entry receiver as follows.
   a) Substitute a known-good keyless entry receiver.
   b) Record key code referring to “Programming Transmitter Code for Keyless Entry System (Vehicle without Keyless Start System): ”.
   c) Recheck keyless entry receiver system.

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Specifications

Tightening Torque Specifications

S5JB0A9607001

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Door latch screw	5.0	0.5	4.0	☞ / ☞
Door latch striker screw	10	1.0	7.5	☞
Rear end door latch bolt	10	1.0	7.5	☞
Rear end door striker screw	23	2.3	17.0	☞

NOTE

The specified tightening torque is also described in the following.
“Front Door Lock Assembly Components: ”
“Rear Door Lock Assembly Components: ”
“Rear End Door Lock Assembly Components: ”

Reference:
For the tightening torque of fastener not specified in this section, refer to “Fastener Information: in Section 0A”.

Special Tools and Equipment

Recommended Service Material

S5JB0A9608001

Material	SUZUKI recommended product or Specification		Note
Grease	SUZUKI Super Grease A	P/No.: 99000–25010	☞

NOTE

Required service material is also described in the following.
“Front Door Lock Assembly Components: ”
“Rear Door Lock Assembly Components: ”

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Seats

Diagnostic Information and Procedures

Front Seat Heater Symptom Diagnosis (If Equipped)

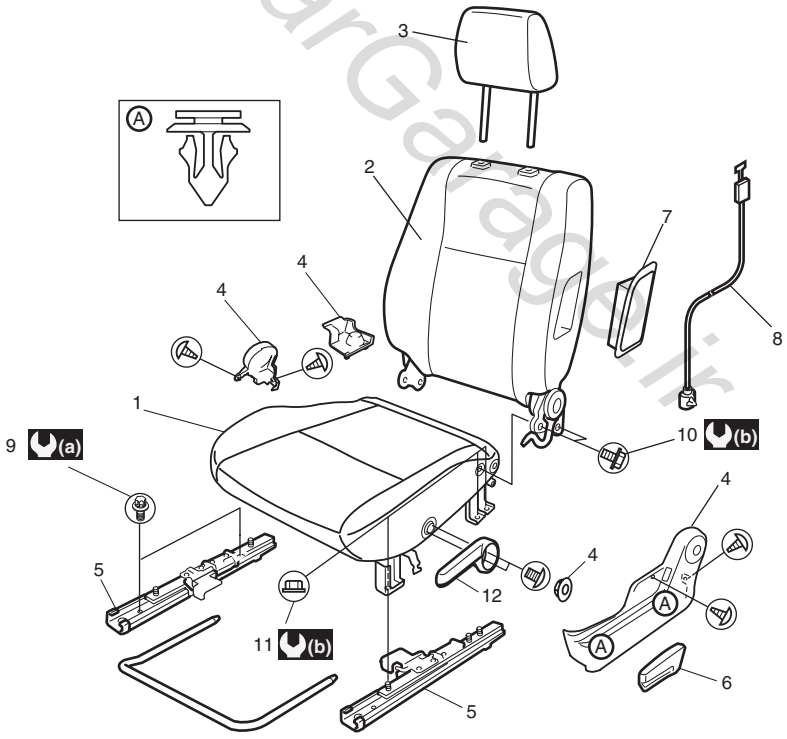
S5JB0A9704001

Condition	Possible cause	Correction / Reference Item
Both seat back and cushion do not become hot although seat heater switch is ON position	Wiring or grounding faulty	*Repair.*
	"IG2 SIG" fuse blown	*Replace fuse to check for short.*
	Seat heater switch faulty	*Replace switch.*
	Seat heater circuit in seat back and/or seat cushion faulty	*Replace heater front back and/or heater front cushion.*
Only seat back does not become hot although seat heater switch is ON position	Wiring faulty	*Repair.*
	Seat heater circuit in seat back and/or seat cushion faulty	*Replace heater front back and/or heater front cushion.*
Only seat cushion does not become hot although seat heater switch is ON position	Wiring faulty	*Repair.*
	Seat heater circuit in seat cushion	*Replace heater front cushion.*

Repair Instructions

Front Seat Components

S5JB0A9706001



I5JB0A970001-02

1. Seat cushion	5. Seat adjuster	9. Seat mounting bolt	(a) : 23 N·m (2.3 kgf-m, 17.0 lb-ft)
2. Seat back	6. Knob	10. Seat back bolt	(b) : 35 N·m (3.5 kgf-m, 25.5 lb-ft)
3. Headrestraint	7. Side air bag module (if equipped)	11. Seat cushion nut	
4. Cover	8. Side air bag harness (if equipped)	12. Seat lifter lever (if equipped)	

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Front Seat Removal and Installation

S5JB0A9706002

Removal

1) Disable air bag system referring to “Disabling Air Bag System: in Section 8B”.
2) Disconnect seat harness coupler, seat heater coupler and side air bag coupler, if equipped.
3) Remove 4 mounting bolts to remove seat assembly.
4) Disassemble and repair seat as necessary.

Installation

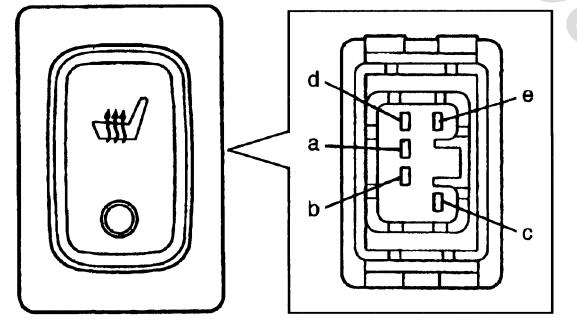
Reverse removal procedure to install front seat.

- Torque to specifications as shown in “Front Seat Components: ”.
- Enable air bag system referring to “Enabling Air Bag System: in Section 8B”.

Front Seat Heater Switch (Driver and Passenger Side) Inspection (If Equipped)

S5JB0A9706005

1) Confirm that ignition switch is OFF position.
2) Detach gear shift panel from front center console box.
3) Disconnect seat heater switch coupler.
4) Check for continuity between terminals at each switch position as shown below. If check result is not as specified, replace.



TERMINAL / POSITION	a	b	c	d	e
OFF		○	○	○	○
ON	○	○	○	○	○

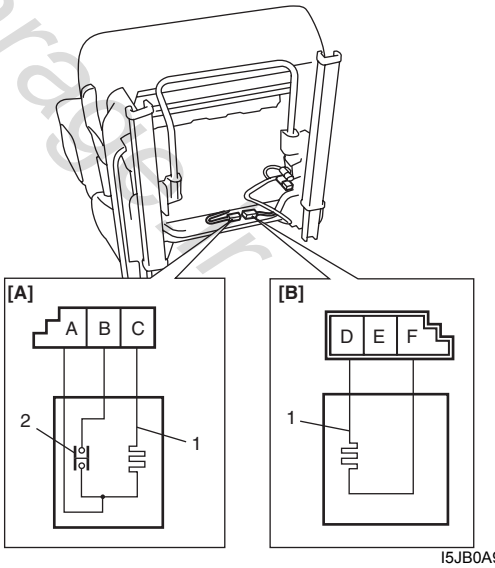
I5JA01970001-01

Front Seat Heater Wire Inspection (If Equipped)

S5JB0A9706006

1) Confirm that seat heater switch is OFF position.
2) Disconnect coupler of seat heater under the seat cushion.
3) Measure resistance between terminals as shown below. If resistance is out of specification, replace faulty seat cushion and/or seat back including seat heater.

Seat heater circuit resistance
Seat cushion side [A] (between terminal “B” and “C”, between terminal “A” and “C”): 4.7 – 5.7 Ω (at 20 °C, 68 °F)
Seat back side [B] (between terminal “F” and “D”: 10.7 – 13.1 Ω (at 20 °C, 68 °F)



I5JB0A970002-01

1.	Heater wire
2.	Thermostat
[A]:	Seat cushion side
[B]:	Seat back side

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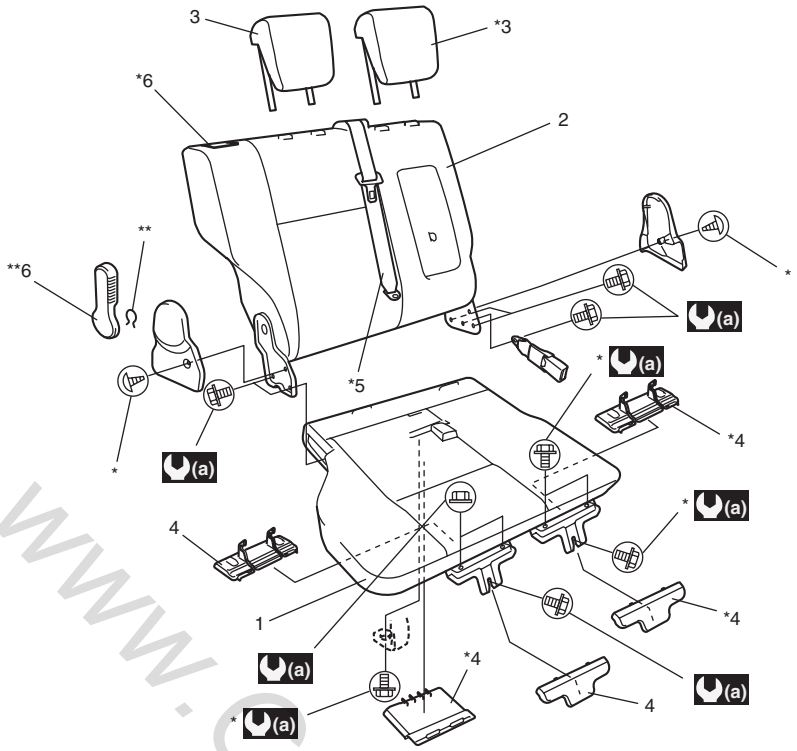
Rear Seat Components

S5JB0A9706003



I5JB0A970003-01

1. Seat cushion	4. Cover	(a) : 35 N·m (3.5 kgf-m, 25.5 lb-ft)
2. Seat back	5. Rear center seat belt	*: 5 door model
3. Headrestraint	6. Reclining lever	**: 3 door model

Rear Seat Removal and Installation

S5JB0A9706004

Removal

1) Remove seat mounting bolt(s) in the bracket.
2) Fold rear seat back and unlock the seat cushion lock to pull forward the seat cushion.
3) Remove seat mounting nuts (bolts) to remove rear seat assembly.
4) Disassemble and repair seat as necessary.

Installation

Reverse removal procedure to install rear seat.

- Torque to specifications in “Rear Seat Components: ”.

Specifications

Tightening Torque Specifications

S5JB0A9707001

NOTE

The specified tightening torque is also described in the following.
“Front Seat Components: ”
“Rear Seat Components: ”

Reference:
For the tightening torque of fastener not specified in this section, refer to “Fastener Information: in Section 0A”.

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Interior Trim

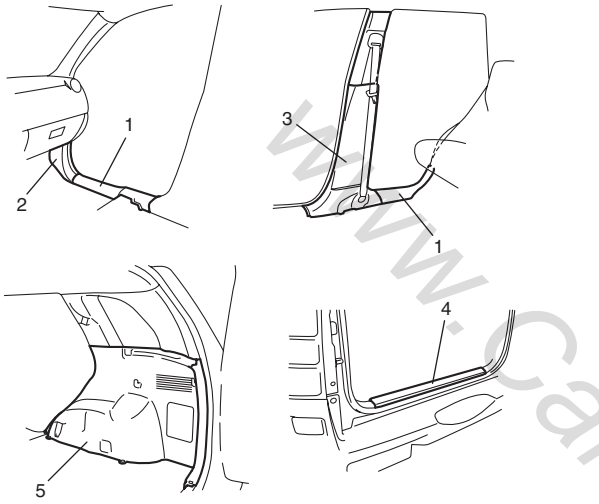
Repair Instructions

Floor Carpet Removal and Installation

S5JB0A9806001

Removal

1) Remove front seats and rear seats.
2) Remove seat belt lower anchor bolt.
3) Remove side sill scuffs (1) (front and rear for 5 door model), front pillar lower trims (2), center pillar inner lower trims (3) (for 5 door model), back panel trim (4), rear quarter lower trims (5).



I5JB0A980001-01

4) Remove front and rear console boxes.
5) Remove floor carpet.

Installation

Reverse removal sequence to install front floor carpet, noting the following instruction.

- For tightening torque of rear seat mounting bolt and nut, refer to “Rear Seat Components: in Section 9G”.
- For tightening torque of front seat mounting bolt, refer to “Front Seat Components: in Section 9G”.
- For tightening torque of seat belt lower anchor bolt, refer to “Front Seat Belt Components: in Section 8A” and “Rear Seat Belt Components: in Section 8A”.

Head Lining Removal and Installation

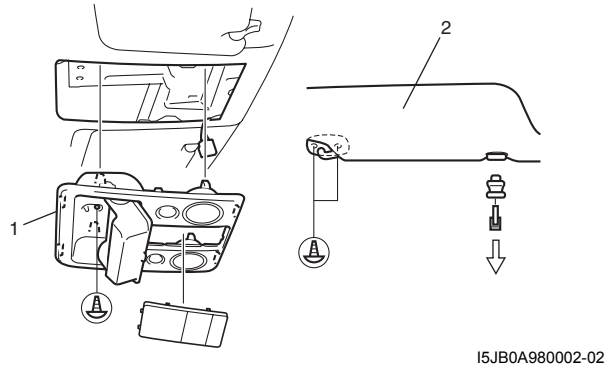
S5JB0A9806002

⚠ WARNING

Refer to “Air Bag Warning: in Section 00” before starting service work.

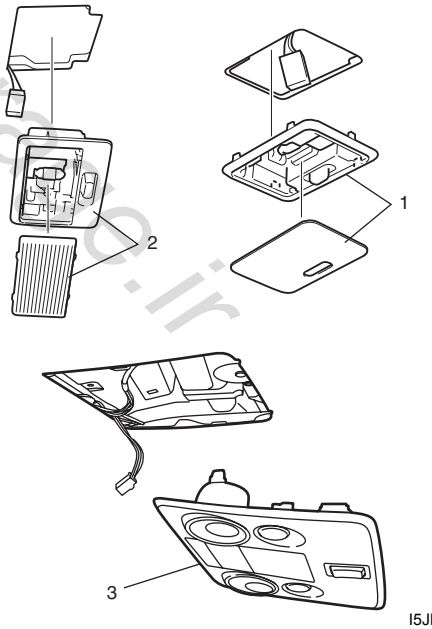
Removal

1) Remove overhead console (1) (if equipped) and sunvisor (2).



I5JB0A980002-02

2) Remove room lamp (2), luggage lamp (1) and spot lamp (3) (if equipped).



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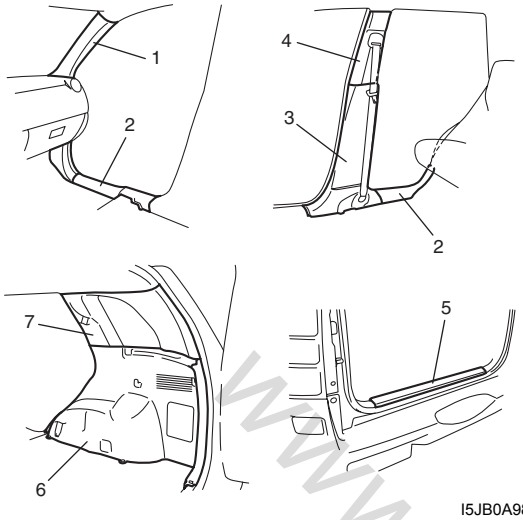
3) Remove front pillar upper trims (1), side sill scuffs (2) (front and rear for 5 door model), center pillar inner lower trims (3) (for 5 door model), center pillar inner upper trims (4) (for 5 door model), back panel trim (5), rear quarter lower trims (6) and rear quarter upper trims (7).



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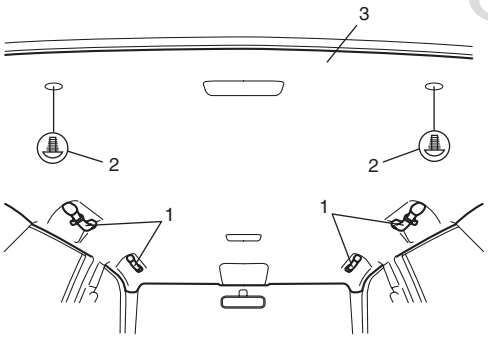
4) Remove assistant grip (1).
5) Remove head lining clips (2) and remove head lining (3).



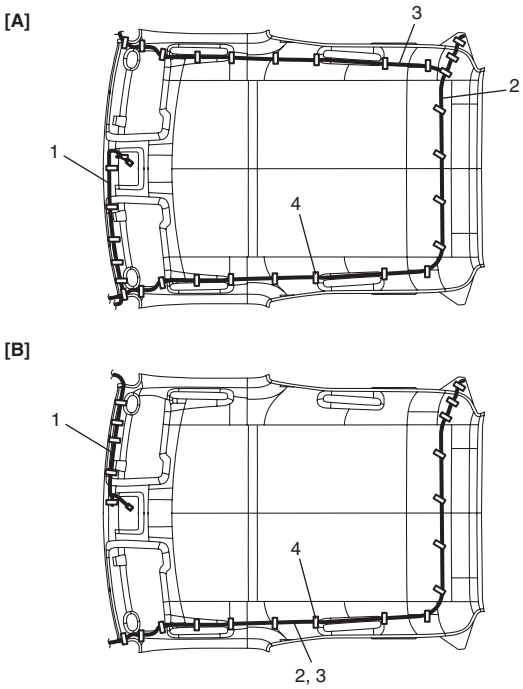
I5JB0A980005-01

Installation

Reverse removal procedure noting the following.

- Set roof harness (1), rear washer hose (2) and antenna feeder (3) to head lining with adhesive tape (4) as shown.

3 door model



I5JB0A980006-02

[A]:	Left-hand steering vehicle
[B]:	Right-hand steering vehicle

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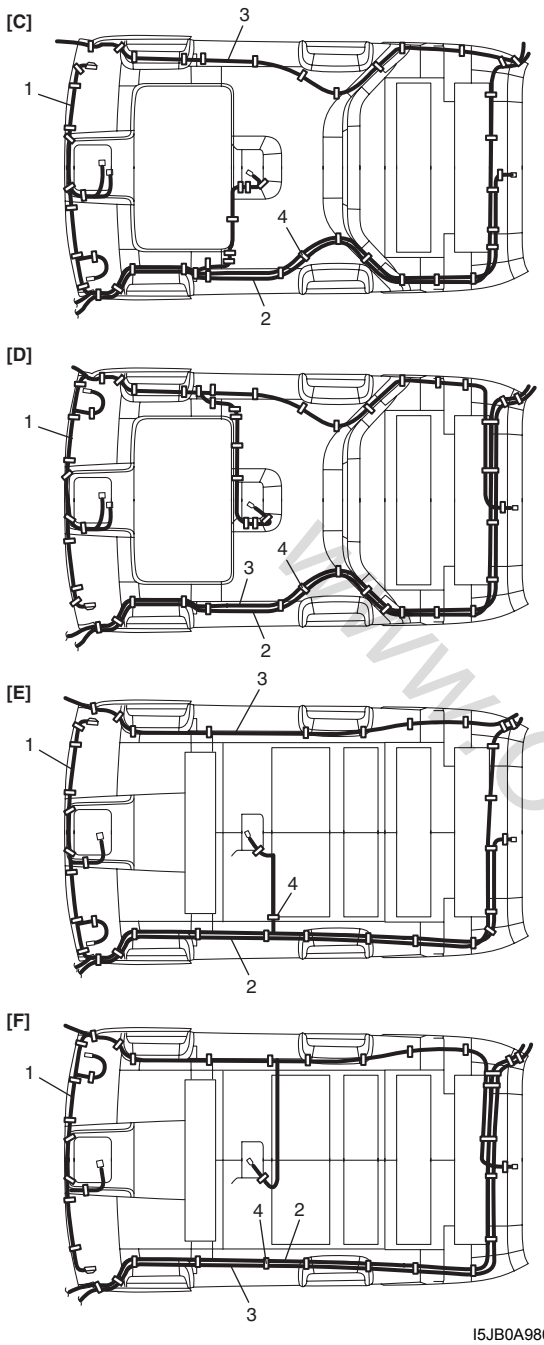
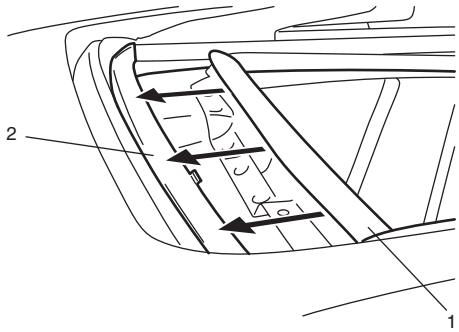
5 door model



I5JB0A980009-01

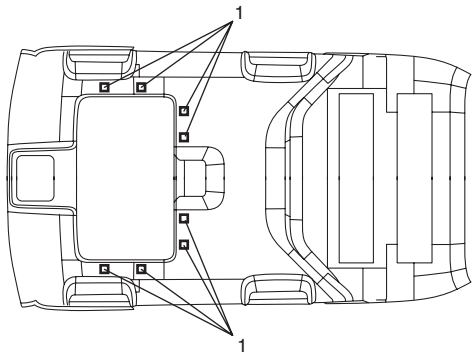
[C]:	Left-hand steering vehicle with sliding roof
[D]:	Right-hand steering vehicle with sliding roof
[E]:	Left-hand steering vehicle without sliding roof
[F]:	Right-hand steering vehicle without sliding roof

- For equipped with sliding roof, hook on bracket (1) of roof lining to sliding roof housing (2).



I5JB0A980007-01

- For equipped with sliding roof, adhere fasteners (1) on roof lining to fasteners of sliding roof frame securely.



I5JB0A980010-01

- For tightening torque of seat belt anchor bolt, refer to “Front Seat Belt Components: in Section 8A” and “Rear Seat Belt Components: in Section 8A”.

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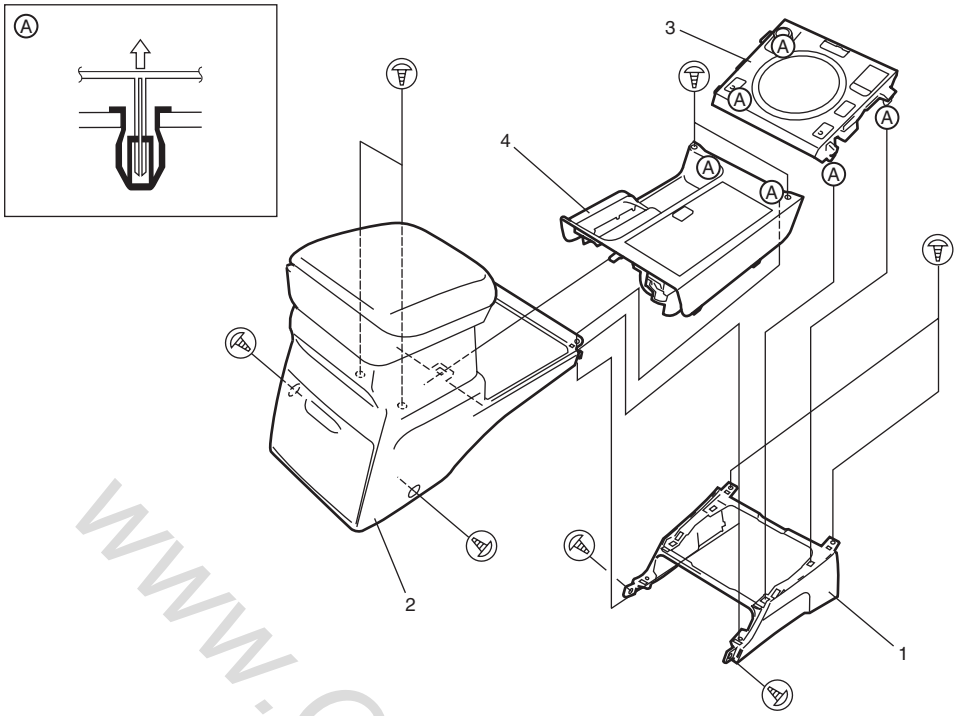
Console Box Components

S5JB0A9806003



I5JB0A980008-02

1. Front console box	3. Gear shift panel
2. Rear console box	4. Console rear panel

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Sun Roof / T-Top / Convertible Top

General Description

Power Sliding (Sun) Roof System Description

S5JB0A9901001

The controller is included in the sliding roof motor unit.
The sliding roof functions are controlled with the sliding roof position data. Sliding roof position and sliding direction are detected by the controller referring to pulse signals from motor.
Initialization of the sliding roof position data is required in the following situation to reset anti-pinching function: battery cable or motor connector is disconnected since the sliding roof position data is deleted without power supply to the motor. Refer to “How to reactivate the system to prevent being pinched by the sunroof” in Sunroof section of Owner’s manual to initialize the sliding roof position data.

Diagnostic Information and Procedures

Power Sliding (Sun) Roof System Symptom Diagnosis

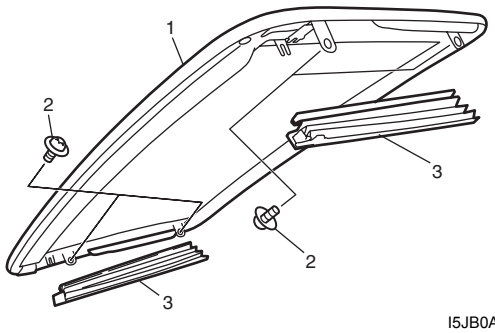
S5JB0A9904001

Condition	Possible cause	Correction / Reference Item
Sliding roof does not operate (sliding roof motor runs OK)	Foreign object stuck in sliding roof rail	*Remove or clean stuck object.*
	Mis-installation of sliding roof rail	*Install correctly.*
	Conflicts of sliding roof parts	*Fix conflicts.*
	Mis-installation of sliding roof drive cable	*Install correctly.*
Sliding roof does not operate (sliding roof motor does not run)	Circuit fuse blown	*Replace fuse to check for short.*
	Sliding roof switch faulty	*Check sliding roof switch referring to “Sliding (Sun) Roof Switch Inspection: ”.*
	Wiring or grounding faulty	*Check circuit referring to “Sliding (Sun) Roof System Circuit and Motor Inspection: ”.*
	Sliding roof motor faulty	*Check sliding roof motor referring to “Sliding (Sun) Roof System Circuit and Motor Inspection: ”.*

Repair Instructions

Sliding (Sun) Roof Glass Components

S5JB0A9906001



I5JB0A990001-01

1.	Sliding roof glass
2.	Bolt
3.	Sliding roof cover

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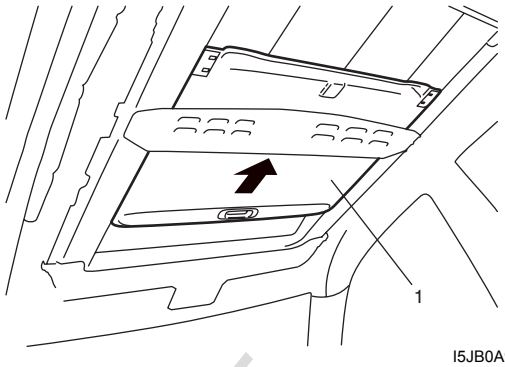
Sliding (Sun) Roof Glass Removal and Installation

S5JB0A9906002

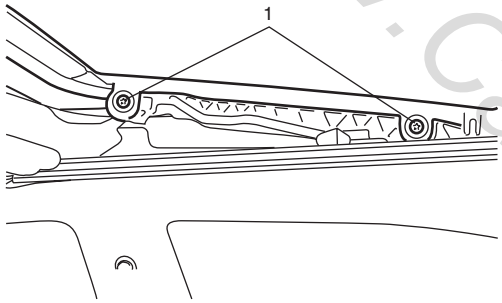
Removal

1) Open sunshade (1) fully and tilt up sliding roof.



I5JB0A990002-01

2) Disconnect negative (–) cable at battery.
3) Remove sliding roof covers.
4) Remove sliding roof glass by removing bolts (TORX® T25) (1).



I5JB0A990003-01

Installation

For installation, reverse removal procedure, noting the following points.

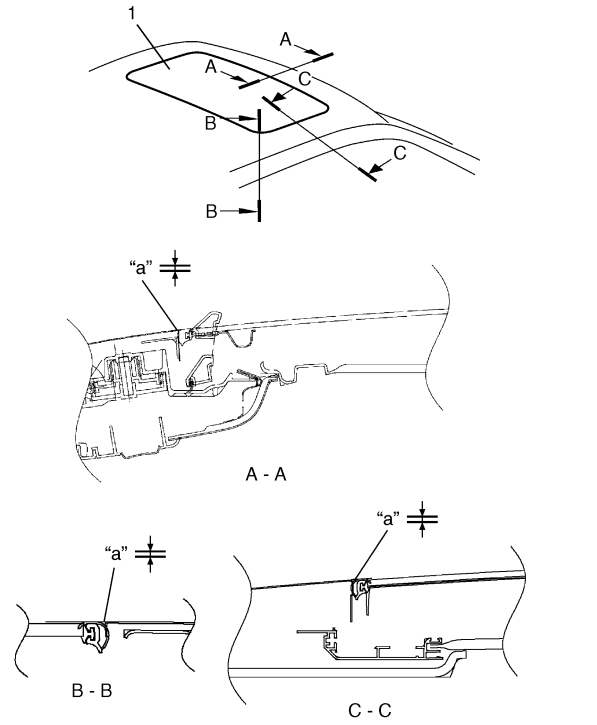
1) Tighten glass fixing bolts temporarily.
2) Initialize sliding roof position data referring to Owner's Manual.
3) Position sliding roof glass by closing sliding roof glass completely.
4) Tighten glass fixing bolts after sliding roof glass adjustment referring to "Sliding (Sun) Roof Glass Adjustment: ".

Sliding (Sun) Roof Glass Adjustment

S5JB0A9906003

1) Loosen sliding roof glass fixing screws (at 4 locations) and move sliding roof glass (1) up and down 2 to 3 times. In this way, sliding roof glass can be positioned in both vertical and horizontal directions by elasticity of sliding roof weather strip.
2) Position sunroof glass by such dimensions with respect to roof panel surface as specified below.

Sliding roof glass position (between glass roof and roof panel)
"a": 0 mm (0.0 in.)



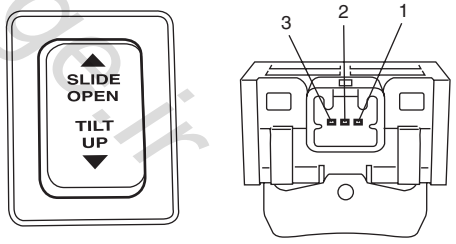
I5JB0A990004-01

3) After installing all parts and adjusting properly, check sunroof for proper operation (open, close and up).

Sliding (Sun) Roof Switch Inspection

S5JB0A9906005

Check switch for continuity between terminals as shown below.



Terminal \ Switch	TILT UP	N	SLIDE OPEN
1	○		
2	○		○
3			○

I5JB0A990005-01

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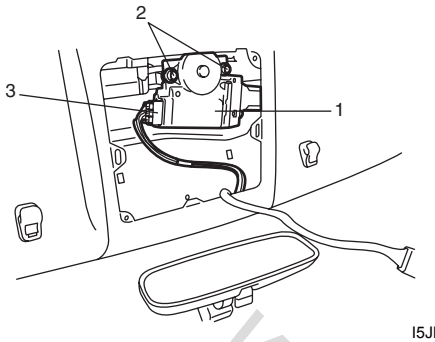
Sliding (Sun) Roof Motor Removal and Installation

S5JB0A9906006

Removal

1) Remove spot lamp assembly from head lining.
2) Disconnect coupler (3) and remove sliding roof motor (1) by removing 2 bolts (2).



I5JB0A990006-01

Installation

For installation, reverse removal procedure, noting the following points.

- Connect coupler to sliding roof motor securely.
- Initialize sliding roof position data referring to "How to reactivate the system to prevent being pinched by the sunroof" in Sunroof section of Owner's manual.

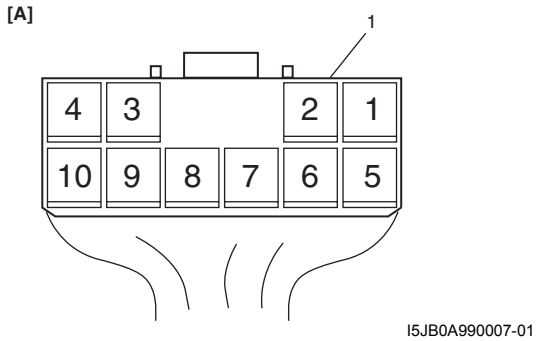
Sliding (Sun) Roof System Circuit and Motor Inspection

S5JB0A9906007

1) Check that sliding roof switch is in good condition referring to "Sliding (Sun) Roof Switch Inspection: ".
2) Connect connector to sliding roof switch.
3) Disconnect connector from sliding roof motor.
4) Measure voltage and resistance between each terminals of sliding roof motor connector (1).
   If each voltage and/or resistance are within specified value, sliding roof system circuit is in good condition and proceed next step.
   If each voltage and/or resistance are out of specified value, repair sliding roof system circuit.

Sliding roof system circuit specification with connector disconnected

Measurement terminal	Measurement condition	Reference value
5(+) – 7(–)	Ignition switch turned OFF and ON	10 – 14 V
8(+) – 7(–)	Ignition switch turned ON	10 – 14 V
9 – 7	Ignition switch turned OFF and sliding roof switch from OFF to "SLIDE OPEN"	Infinity ↓ 0 – 1 Ω
10 – 7	Ignition switch turned OFF and sliding roof switch from OFF to "TILT UP"	Infinity ↓ 0 – 1 Ω
7 – vehicle body ground	Ignition switch turned OFF	0 – 1 Ω



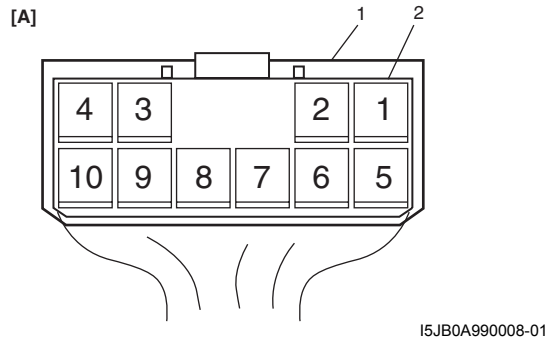
I5JB0A990007-01

[A]: Viewed from harness side

5) Connect connector to sliding roof motor (1).
6) Measure each voltage between terminals of sliding roof motor connector (2) with ignition switch ON.
   If each voltage is out of specified value, replace sliding roof motor.

Sliding roof motor out put voltage

Measurement terminal	Measurement condition	Reference value
9(+) – 7(–)	Sliding roof switch from OFF to "SLIDE OPEN"	10 – 14 V (OFF) ↓ 0 V ("SLIDE OPEN")
10(+) – 7(–)	Sliding roof switch from OFF to "TILT UP"	10 – 14 V (OFF) ↓ 0 V ("TILT UP")



I5JB0A990008-01

[A]: Viewed from harness side

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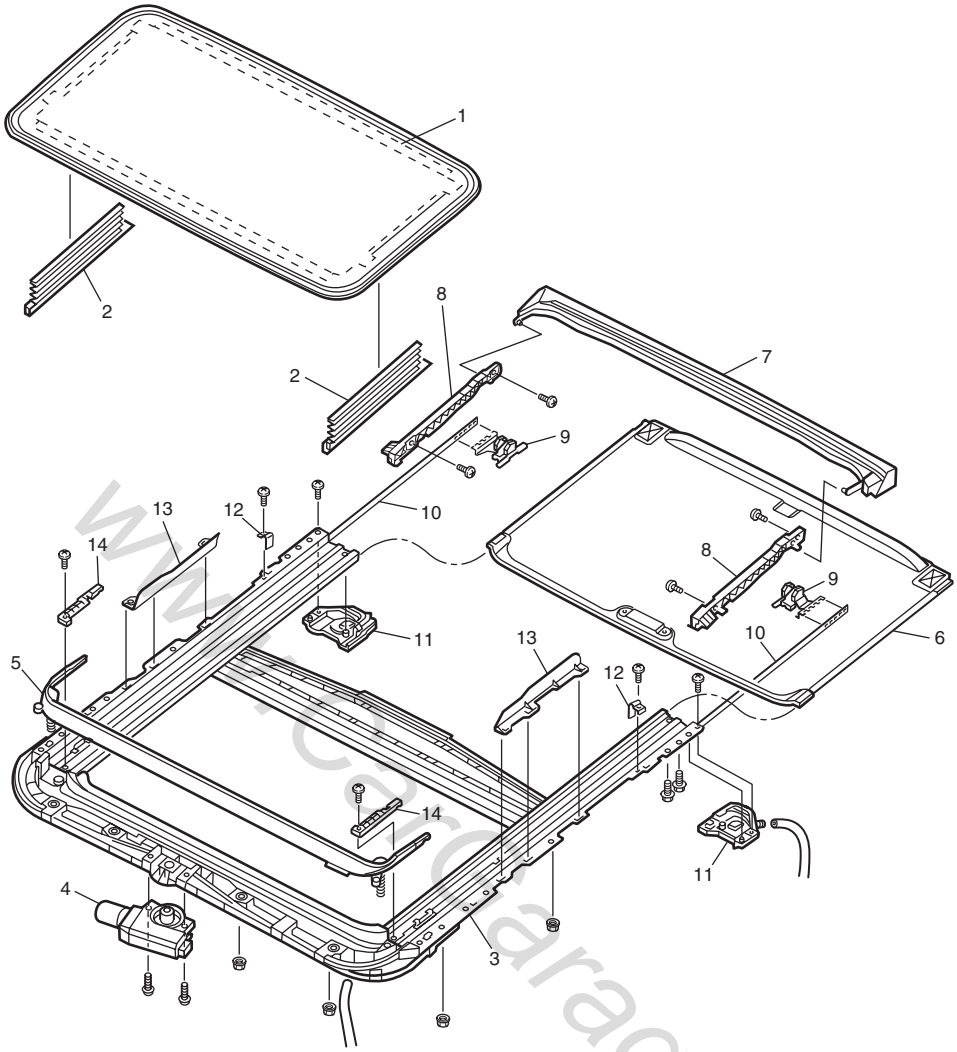
Sliding (Sun) Roof Assembly Components

S5JB0A9906008



I5JB0A990009-02

1. Sliding roof glass	6. Sunshade	11. No.1 peace
2. Sliding roof cover	7. Drip channel	12. Rail stopper
3. Sliding roof housing	8. Panel bracket	13. Housing cover
4. Sliding roof motor	9. Shoe	14. Guide block
5. Deflector	10. Drive cable	

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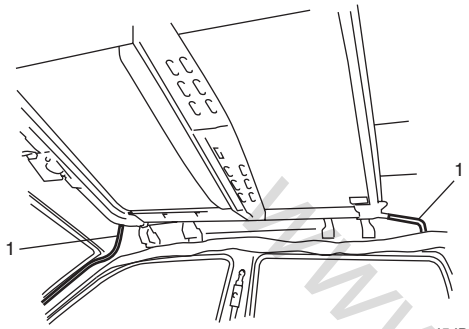
Sliding (Sun) Roof Assembly Removal and Installation

S5JB0A9906009

Removal

1) Remove head lining referring to “Head Lining Removal and Installation: in Section 9H”.
2) Remove sliding roof glass referring to “Sliding (Sun) Roof Glass Removal and Installation: ”.
3) Disconnect drain hoses (1) connected to sliding roof assembly at 4 locations.



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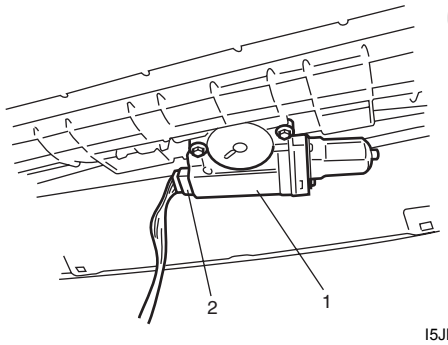
4) Disconnect sliding roof motor (1) at coupler (2).



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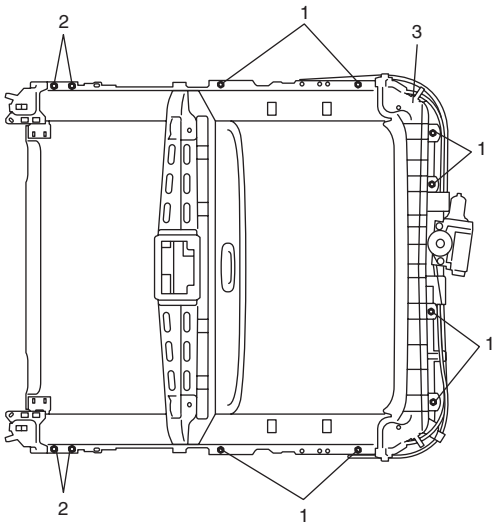
5) Remove 8 nuts (1) and 4 bolts (2), then remove sliding roof assembly (3).

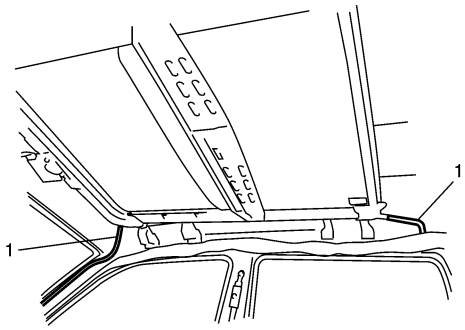


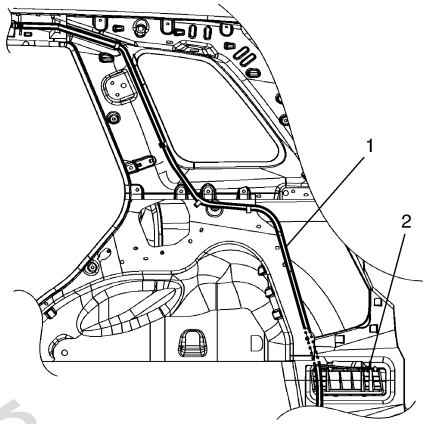
I5JB0A990012-01

Installation

For installation, reverse removal procedure, noting the following points.

- Connect drain hoses (1) to sliding roof assembly at 4 locations. Clamp drain hose by each clamp securely.
- Pass rear drain hose between rib of outlet ventilator (2).





I5JB0A990013-01

- Initialize sliding roof position data referring to “How to reactivate the system to prevent being pinched by the sunroof” in Sunroof section of Owner’s manual.
- After reinstalling sliding roof assembly, be sure to make glass adjustment. (Refer to “Sliding (Sun) Roof Glass Adjustment: ”.)

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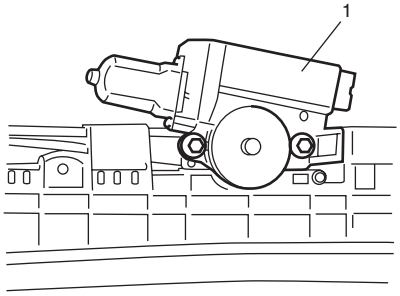
Sliding (Sun) Roof Assembly Disassembly and Reassembly

S5JB0A9906010

Disassembly

1) Remove sliding roof motor (1).



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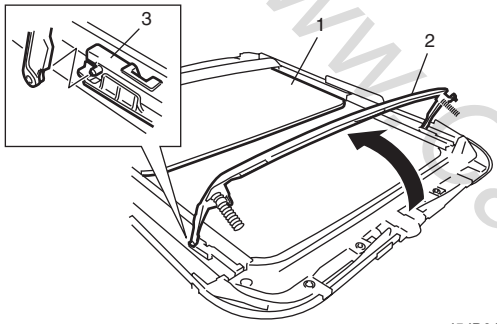
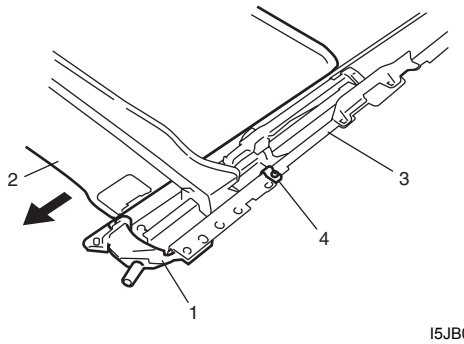
2) Slide sunshade (1) to full-position.
3) Remove deflector (2) from holder (3) with holding deflector.



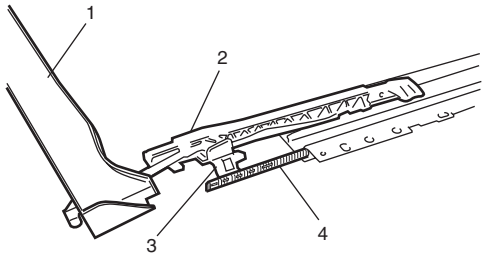
I5JB0A990015-01

4) Remove No.1 peaces (1) and then pull out sunshade (2) from guide rails (3).
5) Remove rail stoppers (4) from guide rails.



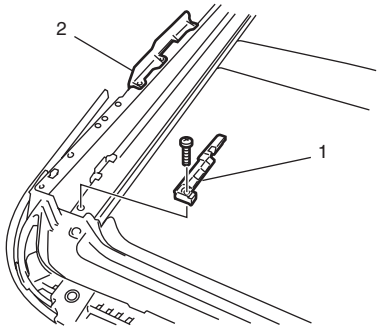
I5JB0A990016-01

6) Pull out drip channel (1), panel brackets (2), shoes (3) and drive cables (4) all together from guide rails.



I5JB0A990017-01

7) Disassemble drip channel, panel brackets, shoes and drive cables.
8) Remove guide block (1) and housing covers (2) from rails.

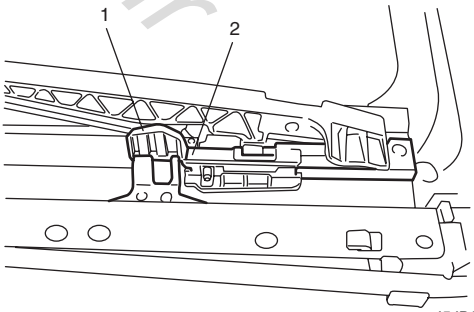


I5JB0A990018-01

Reassembly

Reverse disassembly procedure for reassembly, noting the following.

- Check wear and damage of drive cables and sliding roof motor gear.
- Apply grease to sliding part.
- Slide shoes (1) to contact guide blocks (2) for positioning the sliding roof to tilt up position and install sliding roof motor.



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Hood / Fenders / Doors

Repair Instructions

Hood Removal and Installation

S5JB0A9A06001

Removal

⚠ CAUTION

Place cloth to prevent body from any damage.

1) Remove hood silencer (4).
2) Disconnect window washer hose (1) from hood.
3) Remove 4 mounting bolts (3) to detach hood (2).

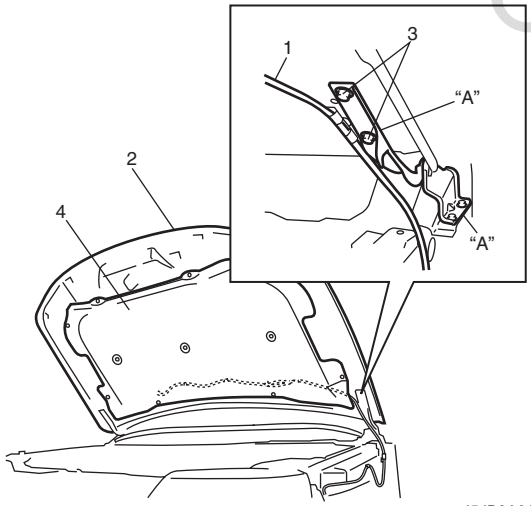
Installation

Reverse removal procedure noting the following.

- Apply sealant to contact face “A” of hood hinge.

  “A”: Sealant 99000–31110 (SUZUKI Bond No.1215)

- Adjust hood lock position if necessary referring to “Hood Inspection and Adjustment”.



I5JB0A9A0001-01

Hood Inspection and Adjustment

S5JB0A9A06002

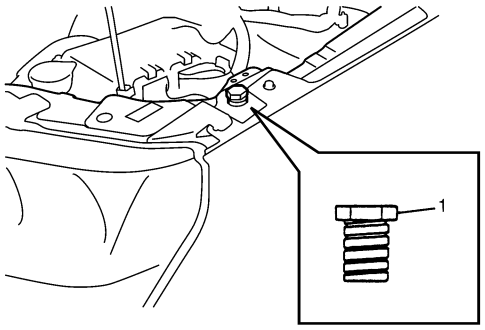
Inspection

- Check that hood opens and closes smoothly and properly. Lubricate if necessary.
- Check that hood stops in the secondary latched position properly (preventing hood from opening freely) and that hood closes completely in the fully latched position.
- Adjust hood lock position, if necessary.

Adjustment

Adjust the following point:

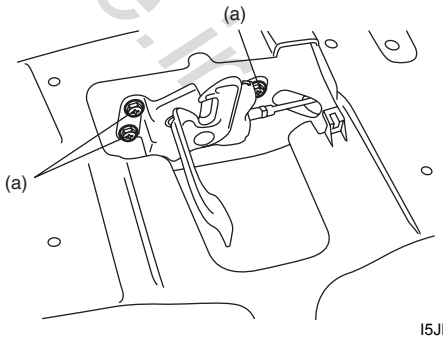
- Hood position adjustment.
  Fore-and-aft and right-and-left adjustment.
  Adjust hood clearance by loosening hood mounting bolts. Refer to “Panel Clearance: in Section 9K”.
- Vertical adjustment
  If only one side (right or left) of hood is not level with front fender, make it level by tightening or loosening hood cushion (1).



I5JB0A9A0002-01

- Hood lock position adjustment
  a. Loosen hood lock bolts.
  b. Adjust hood lock height position so the hood is locked without looseness.
  c. Tighten hood latch bolts to specified torque.

     Tightening torque
     Hood latch bolt (a): 10 N·m (1.0 kgf-m, 7.5 lb-ft)



I5JB0A9A0003-01

  d. Make sure the hood is locked smoothly and securely.

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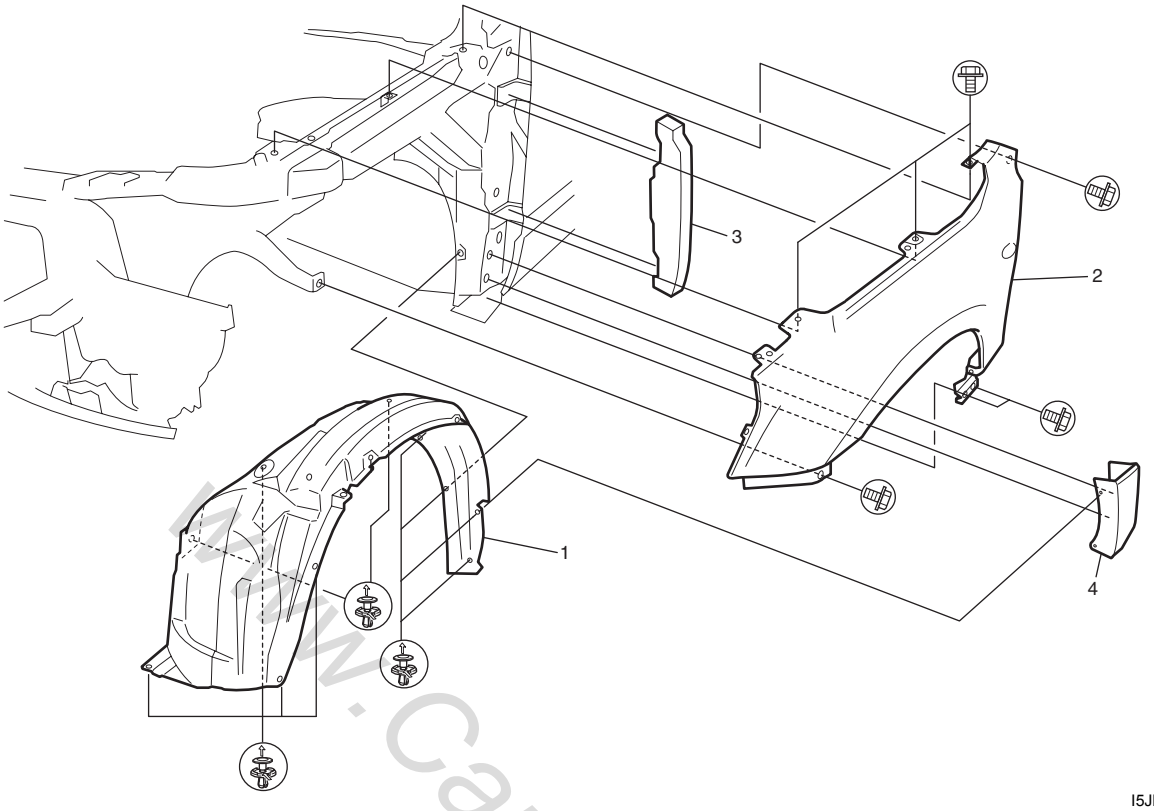
Front Fender Components

S5JB0A9A06003



I5JB0A9A0004-02

1. Front fender lining	3. Front fender rear pad
2. Front fender	4. Splash guard (if equipped)

Front Fender Removal and Installation

S5JB0A9A06004

Removal

1) Remove splash guard (if equipped) referring to “Splash Guard Removal and Installation (If Equipped): in Section 9M”.
2) Remove front fender lining.
3) Remove front bumper referring to “Front Bumper Components: in Section 9K”.
4) Remove headlight assembly referring to “Headlight Housing Removal and Installation: in Section 9B”.
5) Remove cowl top garnishes referring to “Cowl Top Components: in Section 9K”
6) Disconnect connector from side turn signal lamp.
7) Remove front fender.

Installation

Reverse removal procedure to install front fender noting the following instruction.

- If paint on fender bolt is peeled off, be sure to apply paint again.
- Adjust panel clearance referring to “Panel Clearance: in Section 9K”.

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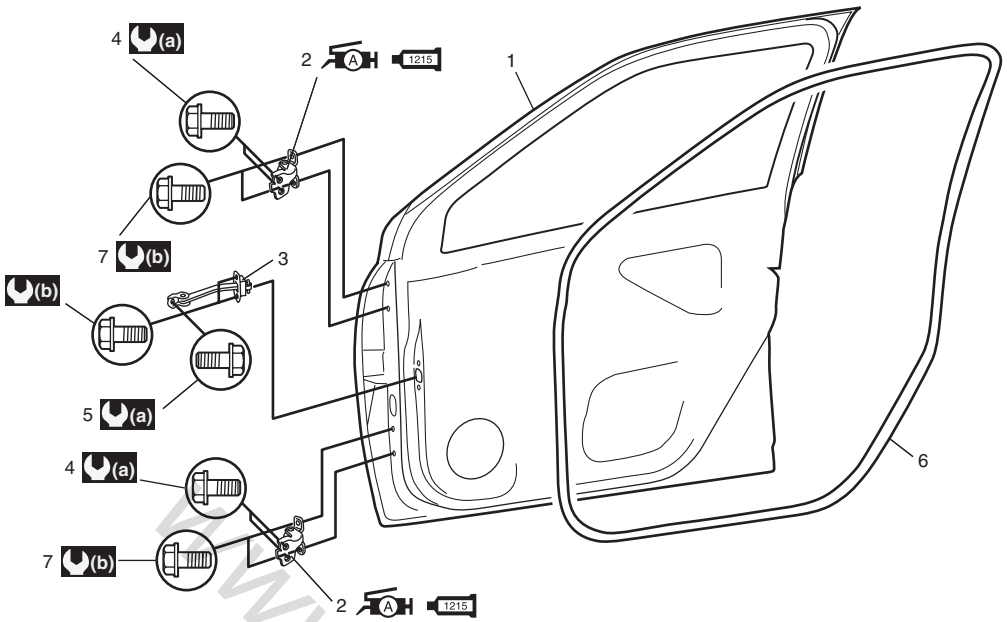
Front Door Assembly Components

S5JB0A9A06005



I5JB0A9A0005-01

1. Door panel	5. Door open stopper bolt	(b) : 23 N·m (2.3 kgf-m, 17.0 lb-ft)
A 1215 2. Door hinge : Apply lithium grease 99000-25010 to rotating part. : Apply sealant 99000-31110 to contact face.	6. Front door opening weather-strip	
3. Door open stopper	7. Front door hinge bolt (door side)	
4. Front door hinge bolt (body side)	(a) : 27 N·m (2.7 kgf-m, 19.5 lb-ft)	

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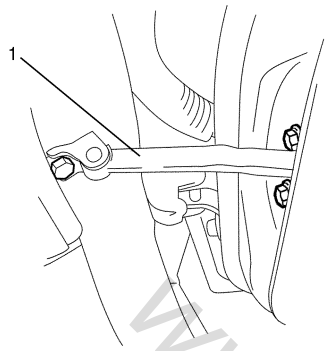
Front Door Assembly Removal and Installation

S5JB0A9A06006

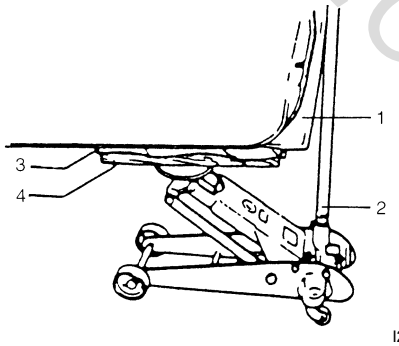
Removal

1) Remove front fender referring to “Front Fender Components: ”.
2) Disconnect door harness lead wires at each coupler.
3) Remove door open stopper (1).



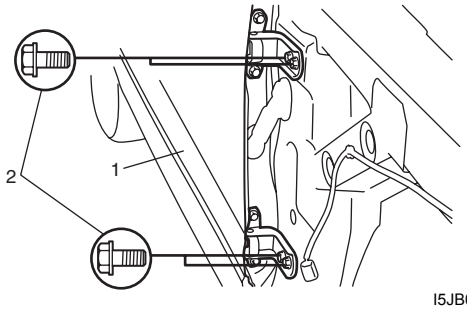
I4RS0A9A0005-01

4) Support door panel (1) using a jack (2) with rags (3) and a piece of wood (4) placed between jack (2) and panel (1) as shown.



I2RH019A0003-01

5) Remove door assembly (1) by loosening hinge mounting bolts (2).



I5JB0A9A0006-01

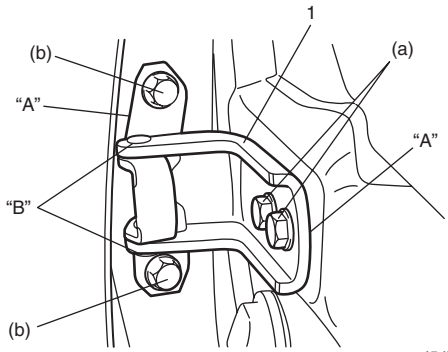
Installation

Reverse removal procedure to install door assembly noting the following instructions.

- When replacing door, coat replacement door inside with wax for proper anti-corrosion treatment. Refer to “Sealant Application Areas: in Section 9L”.
- Apply sealant to contact face “A” of hinge (1) and apply grease to rotating part “B” of hinge (1).

  “A”: Sealant 99000–31110 (SUZUKI Bond No.1215)
  “B”: Grease 99000–25010 (SUZUKI Super Grease A)
- Tighten hinge bolt to specified torque.

  Tightening torque
  Door hinge mounting bolt (body side) (a): 27 N·m (2.7 kgf-m, 19.5 lb-ft)
  Door hinge mounting bolt (door side) (b): 23 N·m (2.3 kgf-m, 17.0 lb-ft)

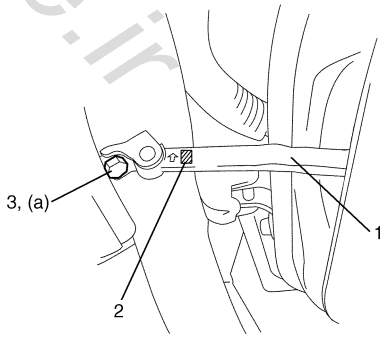


I5JB0A9A0007-01

- When door open stopper (1) is installed, make sure punch mark (2) is upward.

  Door open stopper installing direction
  Left side door: L punch mark is upward
  Right side door: R punch mark is upward
- Tighten door open stopper bolt (3) to specified torque.

  Tightening torque
  Door open stopper bolt (a): 27 N·m (2.7 kgf-m, 19.5 lb-ft)



I4RS0A9A0008-01

- Adjust door latch striker position referring to “Front Door Lock Assembly Removal and Installation: in Section 9F”.
- Adjust front door cushion so that door becomes flush with side body.
- After installation, open and close the door to check looseness.

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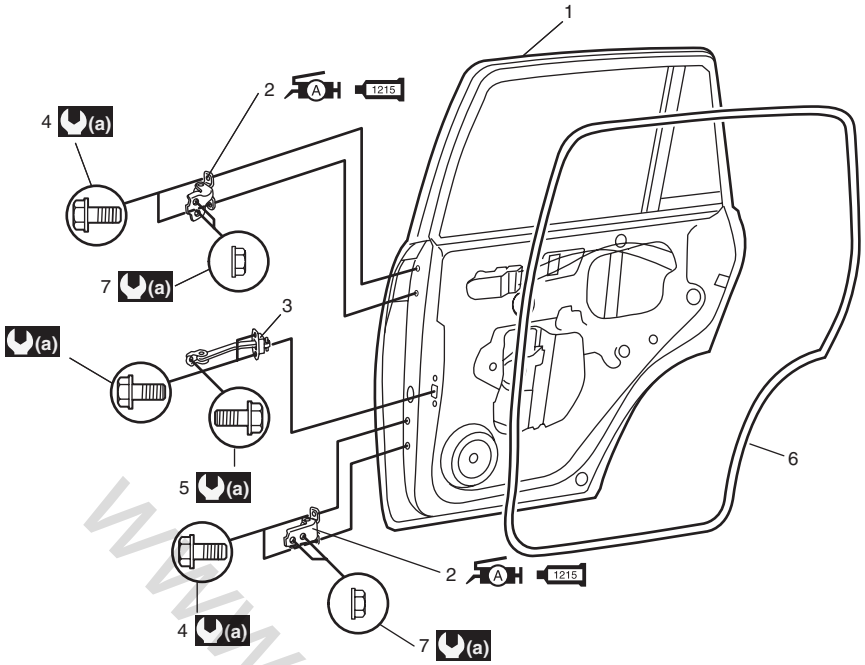
Rear Door Assembly Components

S5JB0A9A06007



I5JB0A9A0008-01

1. Door panel	4. Rear door hinge bolt	7. Rear door hinge nut
1215 2. Door hinge : Apply lithium grease 99000-25010 to rotating part. : Apply sealant 99000-31110 to contact face.	5. Door open stopper bolt	(a) : 23 N·m (2.3 kgf-m, 17.0 lb-ft)
3. Door open stopper	6. Rear door opening weather-strip	

Rear Door Assembly Removal and Installation

S5JB0A9A06008

Refer to “Front Door Assembly Removal and Installation: ” as removal and installation procedures are basically the same. However, note the following.

- Tighten rear door hinge bolts and nuts to specified torque referring to “Rear Door Assembly Components”.

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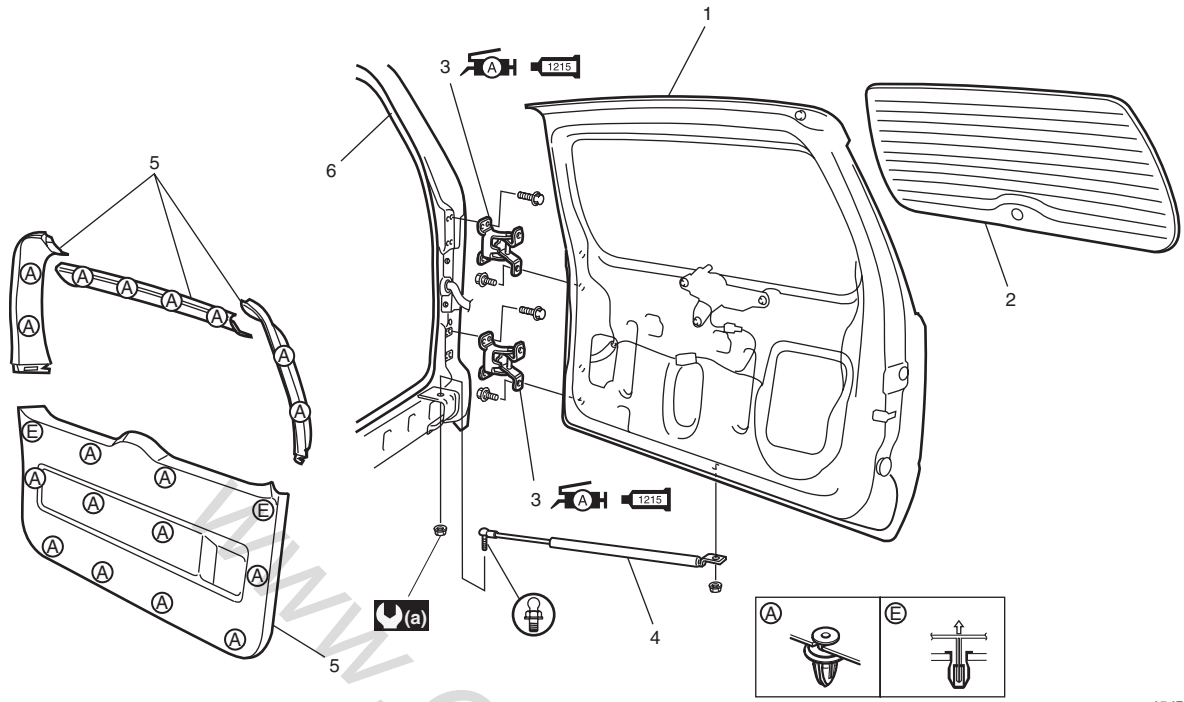
Rear End Door Assembly Components

S5JB0A9A06009



I5JB0A9A0009-01

1. Rear end door panel assembly	4. Rear end door balancer	(a) : 23 N·m (2.3 kgf-m, 17.0 lb-ft)
2. Rear end door window glass	5. Rear end door trim	
1215 3. Rear end door hinge : Apply lithium grease 99000-25010 to door hinge moving section. : Apply sealant 99000-31110 to contact face.	6. Rear end door opening wether-strip	

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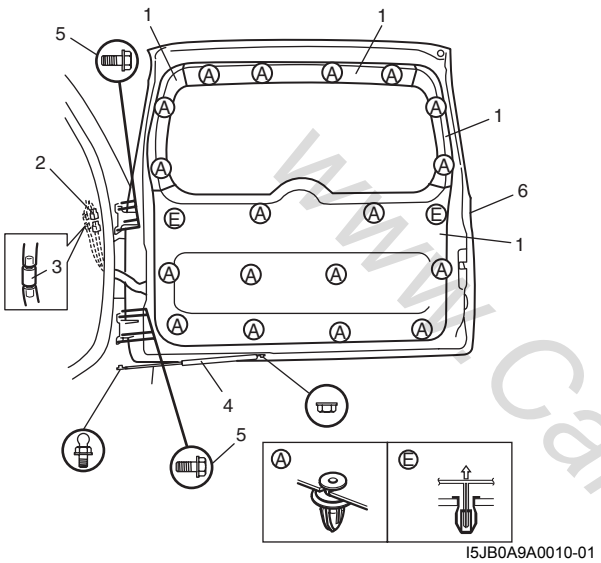
Rear End Door Assembly Removal and Installation

S5JB0A9A06010

Removal

1) Remove rear end door trims (1).
2) Remove spare tire.
3) Disconnect rear end door harness coupler (2) and washer hose (3).
4) Remove rear end door balancer (4).
5) Remove door hinge bolts (5) and remove rear end door assembly (6).



I5JB0A9A0010-01

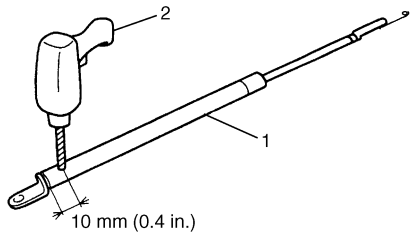
⚠ WARNING

Handling of Rear End Door Balancer (Damper)

- **Handle balancer carefully. Do not scar or scratch exposed surface of its piston rod, and never allow any paint or oil to stick to its surface.**
- **Do not turn piston rod with balancer fully extended.**
- **Do not disassemble balancer (1) because its cylinder is filled with gas.**

Discarding of Rear End Door Balancer (Damper)

- **The gas itself in balancer is harmless but it may issue out of the hole together with chips generated by the drill (2). Therefore, be sure to wear goggle when drilling.**
- **Using a 2 to 3 mm (0.08 to 0.12 in.) drill (2), make a hole to remove gas inside as shown before discarding.**

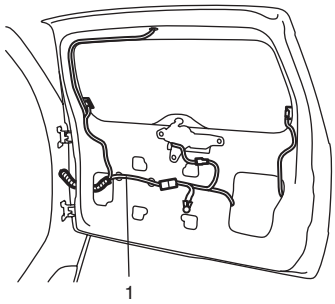


I2RH019A0010-01

Installation

Reverse removal procedure noting the following.

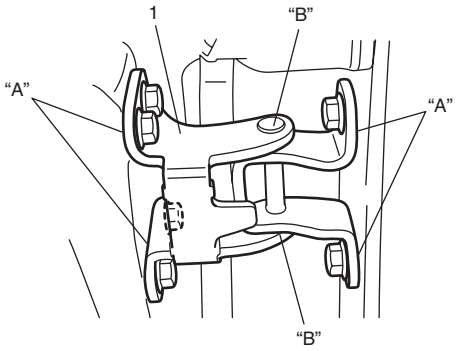
- Tighten rear end door hinge bolts and balancer nut to specified torque referring to “Rear End Door Assembly Components: ”
- Secure wiring harness (1).



I5JB0A9A0011-01

- Adjust door latch striker position by referring to “Rear End Door Lock Assembly Removal and Installation: in Section 9F”.
- Adjust door cushion so that door contacts body when closed.
- Apply sealant to contact face “A” of door hinge (1) and apply grease to rotating part “B” of hinge (1).

“A”: Sealant 99000–31110 (SUZUKI Bond No.1215)
“B”: Grease 99000–25010 (SUZUKI Super Grease A)



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Specifications

Tightening Torque Specifications

S5JB0A9A07001

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Hood latch bolt	10	1.0	7.5	☞
Door hinge mounting bolt (body side)	27	2.7	19.5	☞
Door hinge mounting bolt (door side)	23	2.3	17.0	☞
Door open stopper bolt	27	2.7	19.5	☞

NOTE

The specified tightening torque is also described in the following.
“Front Door Assembly Components: ”
“Rear Door Assembly Components: ”
“Rear End Door Assembly Components: ”

Reference:
For the tightening torque of fastener not specified in this section, refer to “Fastener Information: in Section 0A”.

Special Tools and Equipment

Recommended Service Material

S5JB0A9A08001

Material	SUZUKI recommended product or Specification		Note
Grease	SUZUKI Super Grease A	P/No.: 99000–25010	☞ / ☞
Sealant	SUZUKI Bond No.1215	P/No.: 99000–31110	☞ / ☞ / ☞

NOTE

Required service material is also described in the following.
“Front Door Assembly Components: ”
“Rear Door Assembly Components: ”
“Rear End Door Assembly Components: ”

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Body Structure

Repair Instructions

Front Bumper Components

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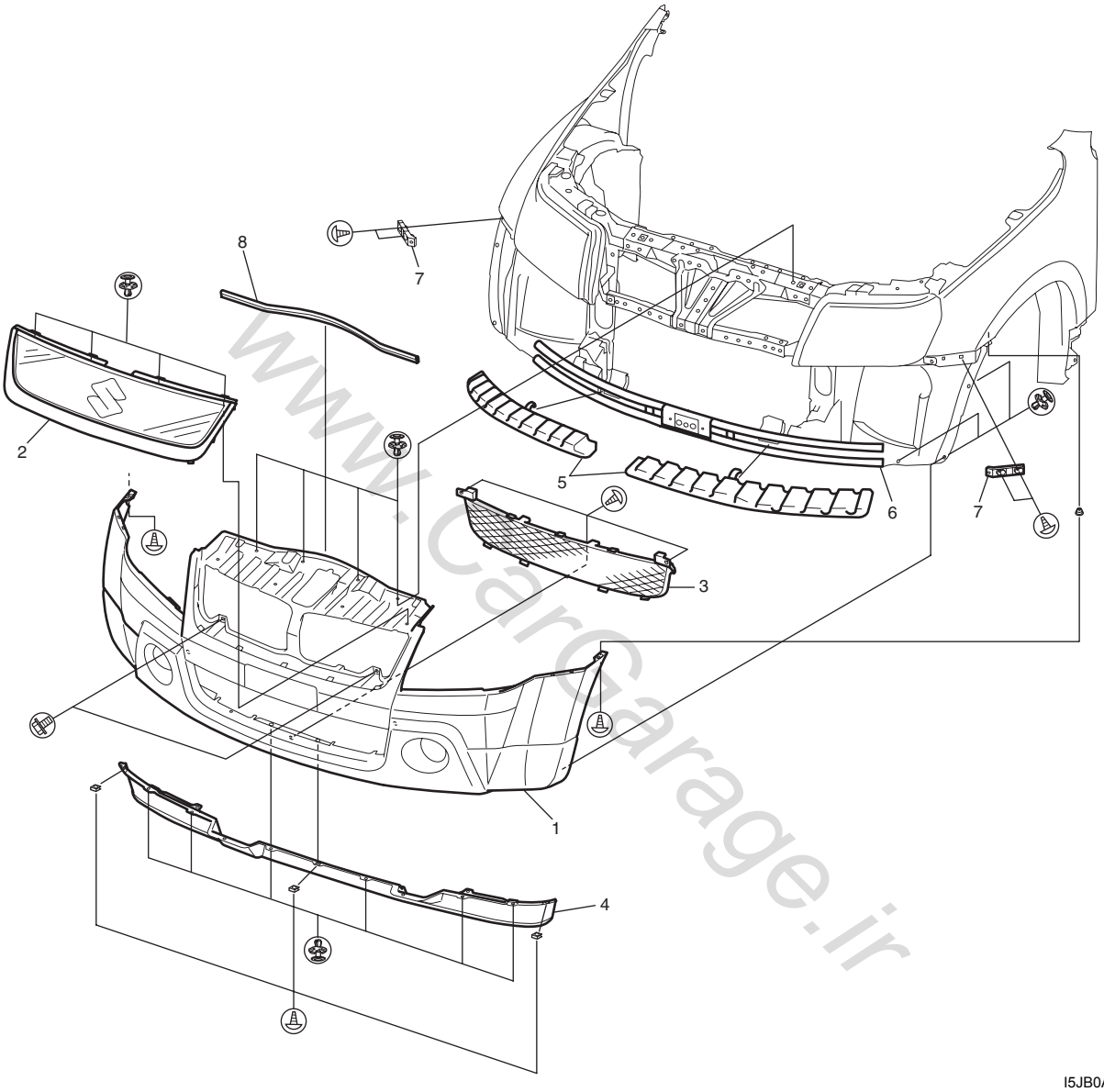

I5JB0A9B0001-02

1. Front bumper	3. Front bumper net	5. Front bumper absorber	7. Front bumper holder
2. Radiator grill	4. Front air dam skirt	6. Front bumper member	8. Seal

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Rear Bumper Components

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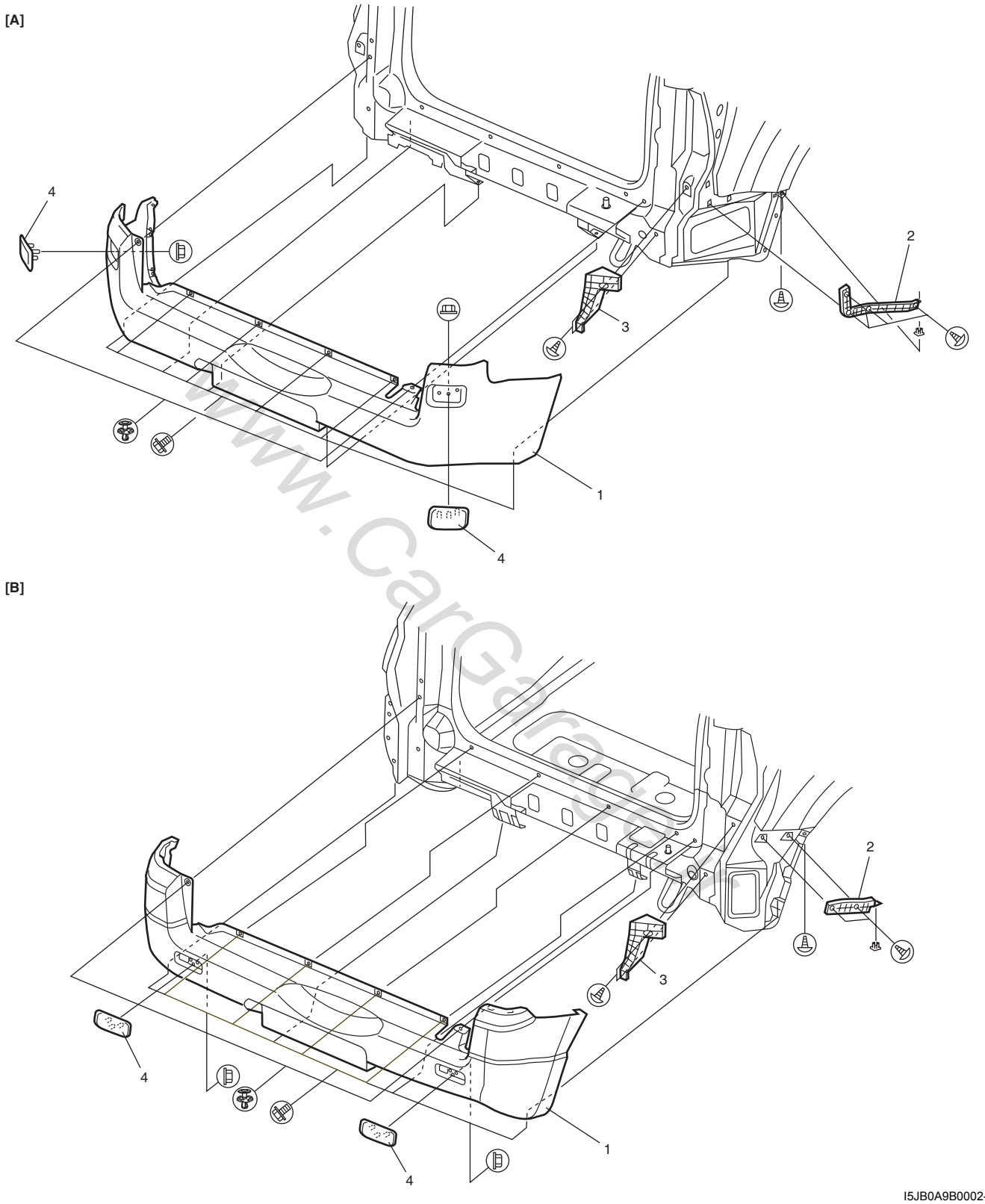

I5JB0A9B0002-01

[A]: 5 door model	1. Rear bumper	3. Rear bumper No.2 holder
[B]: 3 door model	2. Rear bumper No.1 holder	4. Reflector

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Cowl Top Components

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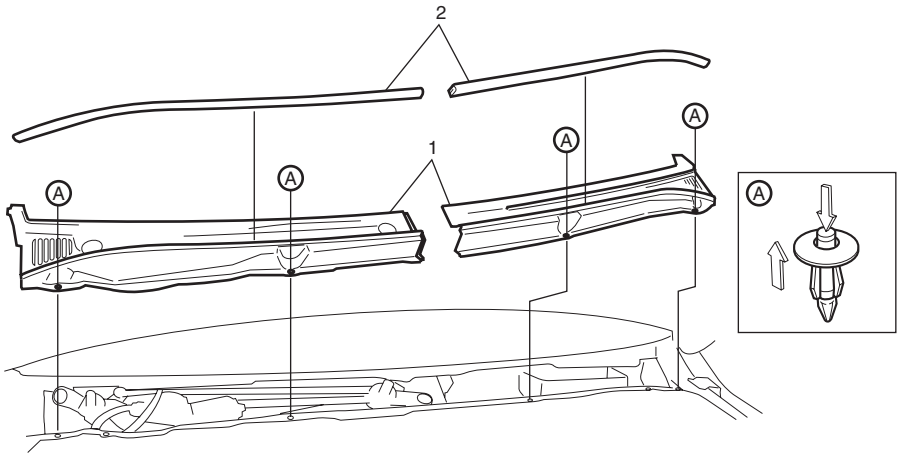

I5JB0A9B0003-01

1. Cowl top garnish
2. Hood rear seal

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Specifications

Body Dimensions

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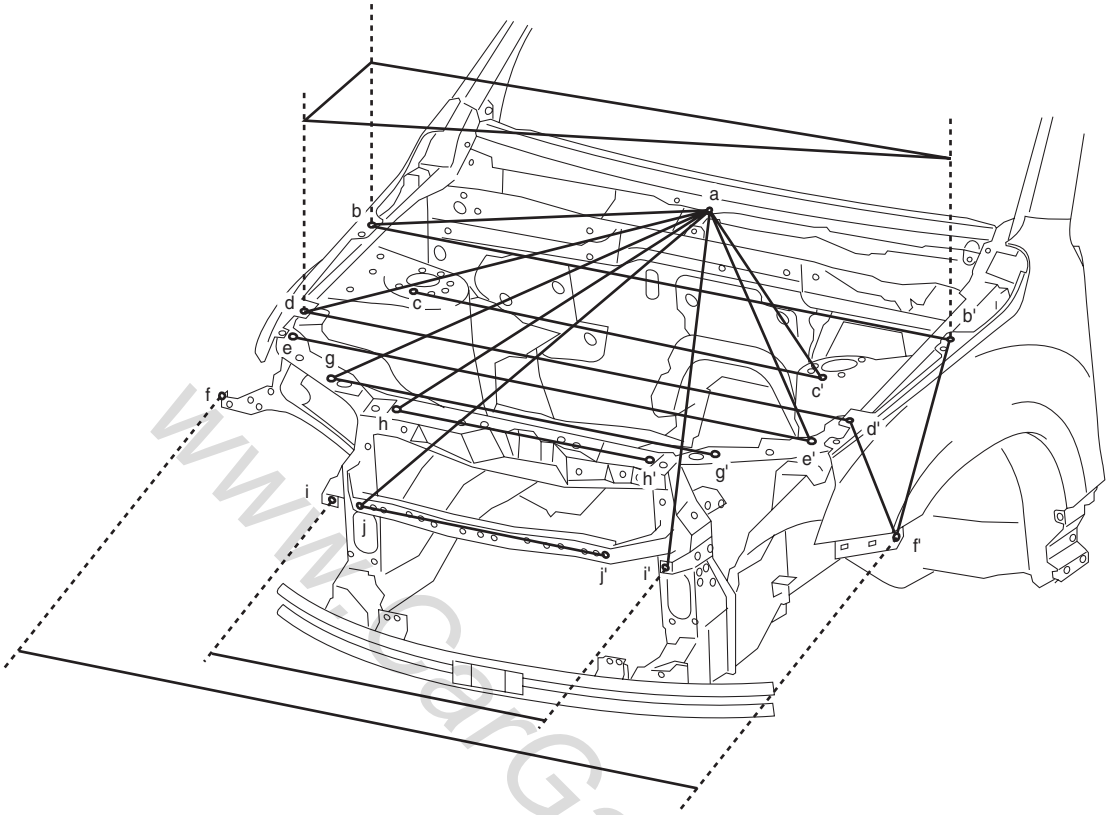
Engine Room



I5JB0A9B0004-01

a. Cowl top installation center hole	e (e'). Headlight installation hole	i (i'). Headlight installation hole
b (b'). Front fender installation hole	f (f'). Front fender installation hole	j (j'). Front upper member installation hole
c (c'). Jig hole (ϕ 8 mm)	g (g'). Headlight installation hole	
d (d'). Front fender installation hole	h (h'). Hood lock member installation hole	

Hole to hole distance

a-b(b'): 792 mm (31.18 in.)	**a-j(j'): 1111 mm (43.74 in.)**	**d(d')-f(f'): 277 mm (10.91 in.)**
a-c(c'): 697 mm (27.44 in.)	**b-b': 1512 mm (59.53 in.)**	**e-e': 1384 mm (54.49 in.)**
a-d(d'): 937 mm (36.89 in.)	**b(b')-d(d'): 375 mm (14.76 in.)**	**f-f': 1750 mm (68.90 in.)**
a-e(e'): 982 mm (38.66 in.)	**b(b')-f(f'): 535 mm (21.06 in.)**	**g-g': 980 mm (38.58 in.)**
a-g(g'): 969 mm (38.15 in.)	**c-c': 1089 mm (42.87 in.)**	**h-h': 662 mm (26.06 in.)**
a-h(h'): 910 mm (35.83 in.)	**d-b': 1519 mm (59.80 in.)**	**i-i': 865 mm (34.06 in.)**
a-i(i'): 1110 mm (43.70 in.)	**d-d': 1432 mm (56.38 in.)**	**j-j': 630 mm (24.80 in.)**

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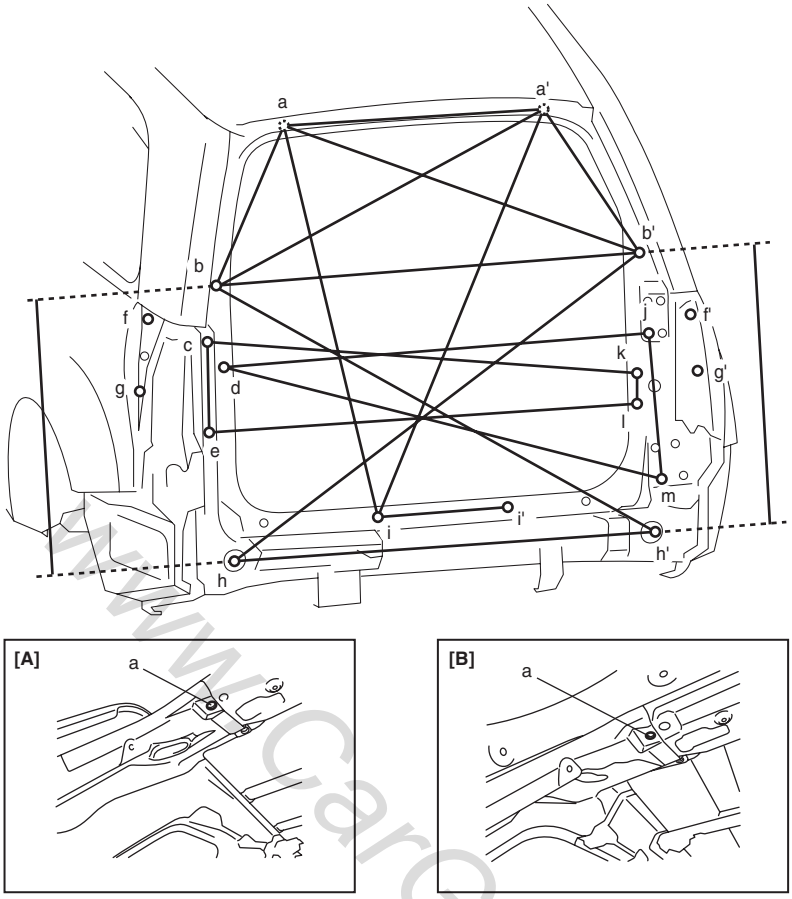
Rear End Door



I5JB0A9B0005-01

[A]: 5 door model	c (c'). Rear combination lamp installation hole	g (g'). Rear combination lamp clip installation hole
[B]: 3 door model	d (d'). Rear end door switch installation hole	h (h'). Jig hole (ϕ 15 mm)
a (a'). Roof back inner panel bolt installation hole	e (e'). Rear combination lamp installation hole	i (i'). Rear bumper installation hole
b (b'). Jig hole (ϕ 15 mm)	f (f'). Rear combination lamp clip installation hole	

Hole to hole distance for 5 door model

a-a': 718 mm (28.27 in.)	b-h: 729 mm (28.70 in.)	e-l: 1208 mm (47.56 in.)
a-b: 436 mm (17.17 in.)	b-h': 1355 mm (53.35 in.)	f-f': 1491 mm (58.70 in.)
a-b': 1002 mm (39.45 in.)	b'-h: 1347 mm (53.03 in.)	g-g': 1548 mm (60.94 in.)
a-i: 1019 mm (40.12 in.)	b'-h': 727 mm (28.62 in.)	h-h': 1138 mm (44.80 in.)
a'-b: 1006 mm (39.61 in.)	c-e: 264 mm (10.39 in.)	i-i': 300 mm (11.81 in.)
a'-b': 438 mm (17.24 in.)	c-k: 1214 mm (47.80 in.)	j-m: 385 mm (15.16 in.)
a'-i: 1120 mm (44.09 in.)	d-j: 1163 mm (45.79 in.)	k-l: 145 mm (57.09 in.)
b-b': 1138 mm (44.80 in.)	d-m: 1213 mm (47.76 in.)	

Hole to hole distance for 3 door model

a-a': 718 mm (28.27 in.)	b-h: 729 mm (28.70 in.)	e-l: 1208 mm (47.56 in.)
a-b: 436 mm (17.17 in.)	b-h': 1355 mm (53.35 in.)	f-f': 1491 mm (58.70 in.)
a-b': 1002 mm (39.45 in.)	b'-h: 1347 mm (53.03 in.)	g-g': 1548 mm (60.94 in.)
a-i: 1019 mm (40.12 in.)	b'-h': 727 mm (28.62 in.)	h-h': 1138 mm (44.80 in.)
a'-b: 1006 mm (39.61 in.)	c-e: 264 mm (10.39 in.)	i-i': 300 mm (11.81 in.)
a'-b': 438 mm (17.24 in.)	c-k: 1214 mm (47.80 in.)	j-m: 385 mm (15.16 in.)
a'-i: 1120 mm (44.09 in.)	d-j: 1163 mm (45.79 in.)	k-l: 145 mm (57.09 in.)
b-b': 1138 mm (44.80 in.)	d-m: 1213 mm (47.76 in.)	

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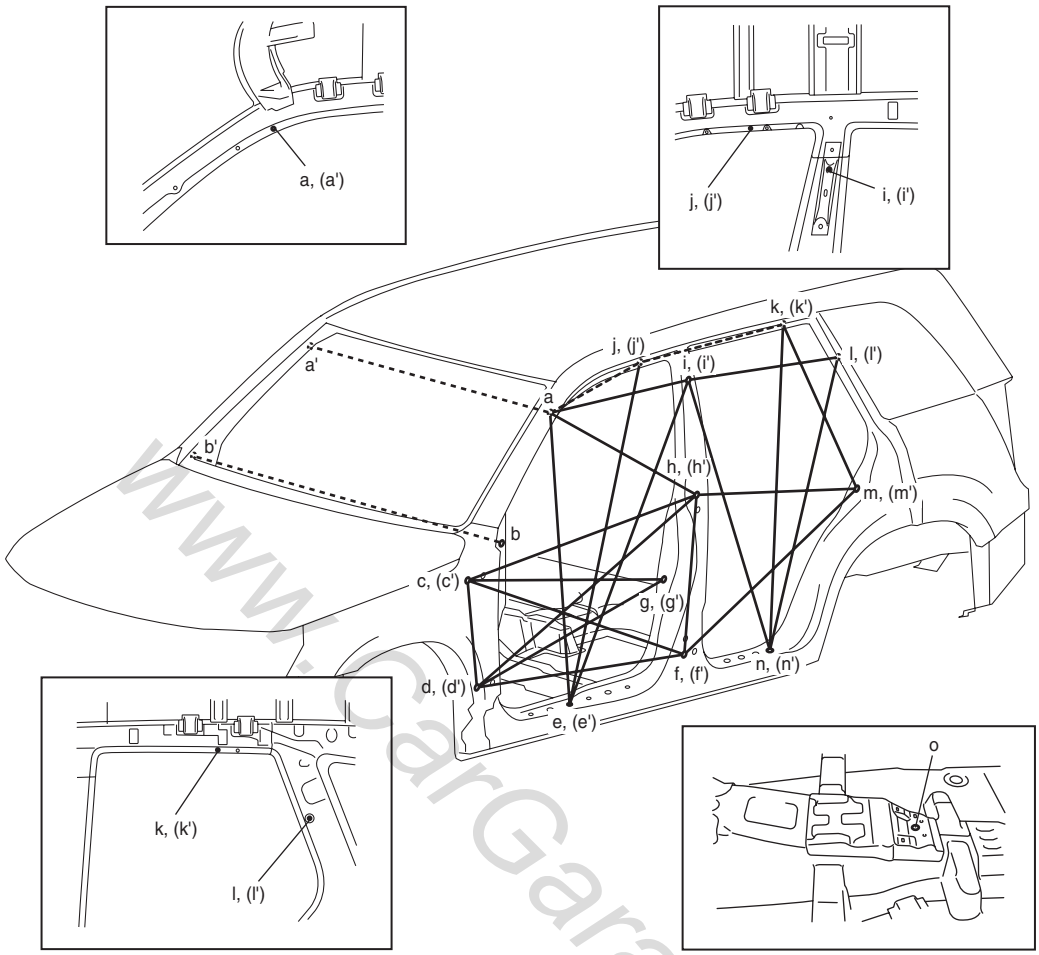
Side Body

5 door model



I5JB0A9B0006-01

a (a'). Jig hole (ϕ 8 mm)	f (f'). Rear door lower hinge installation front side hole	k (k'). Jig hole (ϕ 8 mm)
b (b'). Steering support member installation hole	g (g'). Front door switch installation hole	l (l'). Rear quarter upper trim installation hole
c (c'). Front door upper hinge installation front side hole	h (h'). Rear door upper hinge installation upper side hole	m (m'). Rear door switch installation hole
d (d'). Front door lower hinge installation front side hole	i (i'). Jig hole (ϕ 8 mm)	n (n'). Rear side shill scuff installation hole
e (e'). Front side shill scuff installation hole	j (j'). Jig hole (ϕ 8 mm)	o. Jig hole (ϕ 10 mm)

Hole to hole distance

a-a': 1248 mm (49.13 in.)	**d(d')-f(f'): 1085 mm (42.72 in.)**	**i-i': 1302 mm (51.26 in.)**
a(a')-e(e'): 1093 mm (43.03 in.)	**d(d')-g(g'): 1081 mm (42.56 in.)**	**i(i')-n(n'): 1063 mm (41.85 in.)**
a(a')-h(h'): 731 mm (28.78 in.)	**d(d')-h(h'): 1226 mm (44.33 in.)**	**i(i')-l(l'): 833 mm (32.80 in.)**
a(a')-i(i'): 573 mm (22.56 in.)	**e-e': 1567 mm (61.69 in.)**	**j-j': 1205 mm (47.44 in.)**
a(a')-j(j'): 340 mm (13.39 in.)	**e(e')-i(i'): 1248 mm (49.13 in.)**	**j(j')-k(k'): 753 mm (29.65 in.)**
b-b': 1506 mm (59.29 in.)	**e(e')-j(j'): 1239 mm (48.78 in.)**	**k-k': 1190 mm (46.85 in.)**
c-c': 1594 mm (62.76 in.)	**f-(f'): 1621 mm (63.82 in.)**	**k(k')-m(m'): 713 mm (28.07 in.)**
c (c')-d(d'): 345 mm (13.58 in.)	**f(f')-h(h'): 391 mm (15.39 in.)**	**k(k')-n(n'): 1171 mm (46.10 in.)**
c(c')-f(f'): 1123 mm (44.21 in.)	**f(f')-m(m'): 979 mm (38.54 in.)**	**l-l': 1329 mm (52.32 in.)**
c(c')-g(g'): 1149 mm (45.24 in.)	**g-g': 1472 mm (57.95 in.)**	**l(l')-n(n'): 1069 mm (42.09 in.)**
c(c')-h(h'): 1148 mm (45.20 in.)	**h-h': 1580 mm (62.20 in.)**	**m-m': 1476 mm (58.11 in.)**
d-d': 1630 mm (64.17 in.)	**h(h')-m(m'): 859 mm (33.82 in.)**	**n-n': 1567 mm (61.69 in.)**

NOTE

Use jig hole (o) as datum point to check symmetry of body structure.

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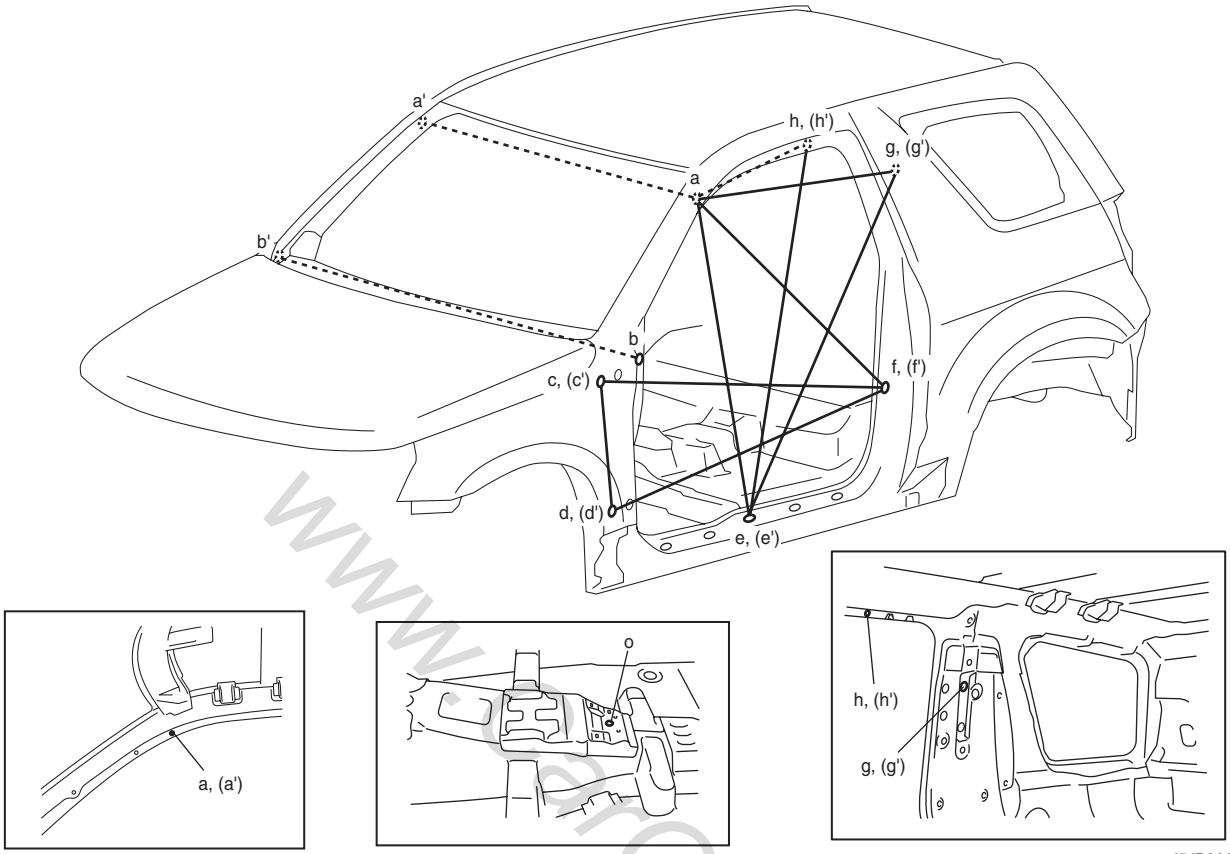
3 door model



I5JB0A9B0007-01

a (a'). Jig hole (ϕ 8 mm)	d (d'). Door lower hinge installation front side hole	g (g'). Jig hole (ϕ 8 mm)
b (b'). Steering support member installation hole	e (e'). Side shill scuff installation hole	h (h'). Jig hole (ϕ 8 mm)
c (c'). Door upper hinge installation front side hole	f (f'). Door switch installation hole	

Hole to hole distance

a-a': 1248 mm (49.13 in.)	**c-c': 1593 mm (62.72 in.)**	**e(e')-h(h'): 1183 mm (46.57 in.)**
a(a')-e(e'): 1064 mm (41.89 in.)	**c(c')-d(d'): 345 mm (13.58 in.)**	**f-f': 1467 mm (57.76 in.)**
a(a')-f(f'): 937 mm (36.89 in.)	**c(c')-f(f'): 1298 mm (51.10 in.)**	**g-g': 1337 mm (52.64 in.)**
a(a')-g(g'): 708 mm (27.87 in.)	**d-d': 1630 mm (64.17 in.)**	**h-h': 1207 mm (47.52 in.)**
a(a')-h(h'): 355 mm (13.98 in.)	**e-e': 1567 mm (61.69 in.)**	
b-b': 1506 mm (59.29 in.)	**e(e')-g(g'): 1217 mm (47.91 in.)**	

NOTE

Use jig hole (o) as datum point to check symmetry of body structure.

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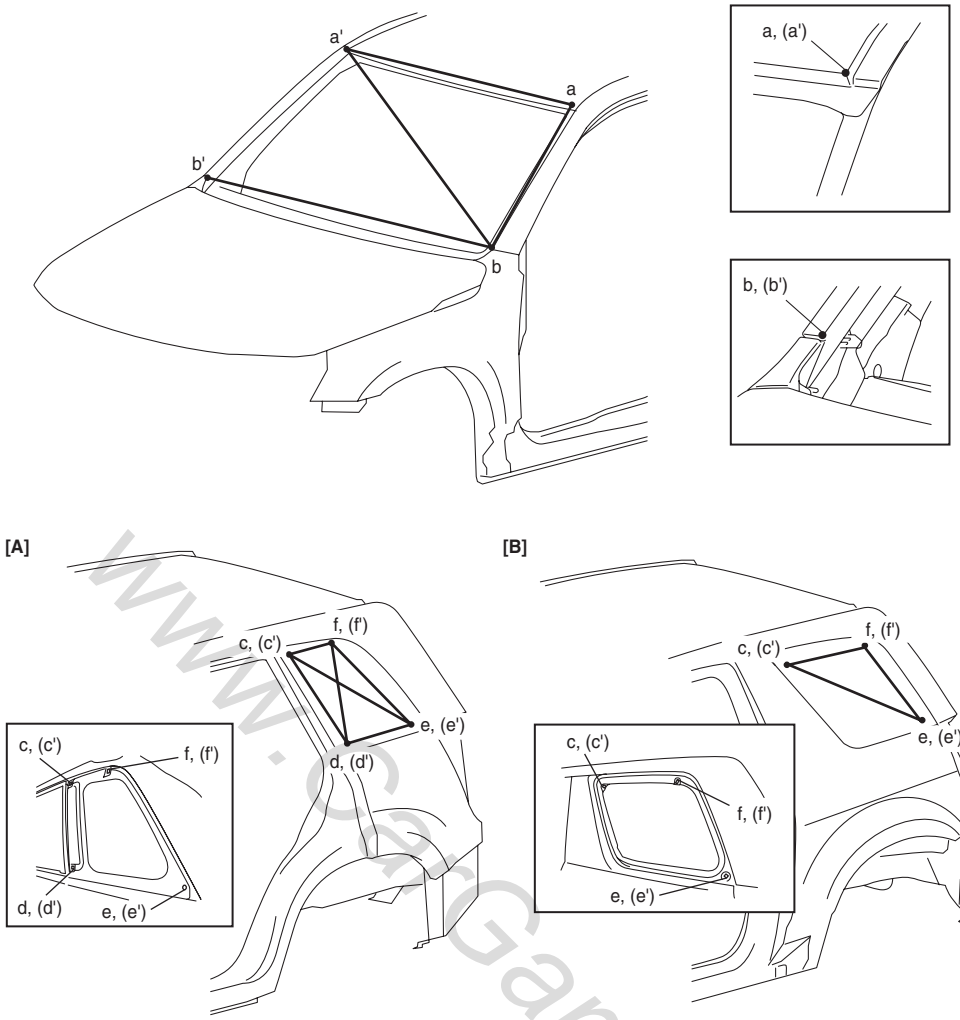

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[A]: 5 door model	b (b'). Front pillar end corner	e (e'). Rear quarter window installation hole
[B]: 3 door model	c (c'). Rear quarter window installation hole	f (f'). Rear quarter window installation hole
a (a'). Roof panel end corner	d (d'). Rear quarter window installation hole	

Hole to hole distance for 5 door model

a-a': 1131 mm (44.53 in.)	**c(c')-d(d'): 409 mm (16.10 in.)**	**d(d')-f(f'): 383 mm (15.08 in.)**
a-b: 717 mm (28.23 in.)	**c(c')-e(e'): 710 mm (27.95 in.)**	**e-e': 1458 mm (57.40 in.)**
a'-b: 1478 mm (58.19 in.)	**c(c')-f(f'): 268 mm (10.55 in.)**	**e(e')-f(f'): 496 mm (19.53 in.)**
b-b': 1475 mm (58.07 in.)	**d-d': 1509 mm (59.41 in.)**	**f-f': 1293 mm (48.78 in.)**
c-c': 1252 mm (49.29 in.)	**d(d')-e(e'): 443 mm (17.44 in.)**	

Hole to hole distance for 3 door model

a-a': 1128 mm (44.41 in.)	**c-c': 1301 mm (51.22 in.)**	**e(e')-f(f'): 418 mm (16.46 in.)**
a-b: 717 mm (28.23 in.)	**c(c')-e(e'): 756 mm (29.76 in.)**	**f-f': 1249 mm (49.17 in.)**
a'-b: 1478 mm (58.19 in.)	**c(c')-f(f'): 433 mm (17.05 in.)**	
b-b': 1478 mm (58.19 in.)	**e-e': 1480 mm (58.27 in.)**	

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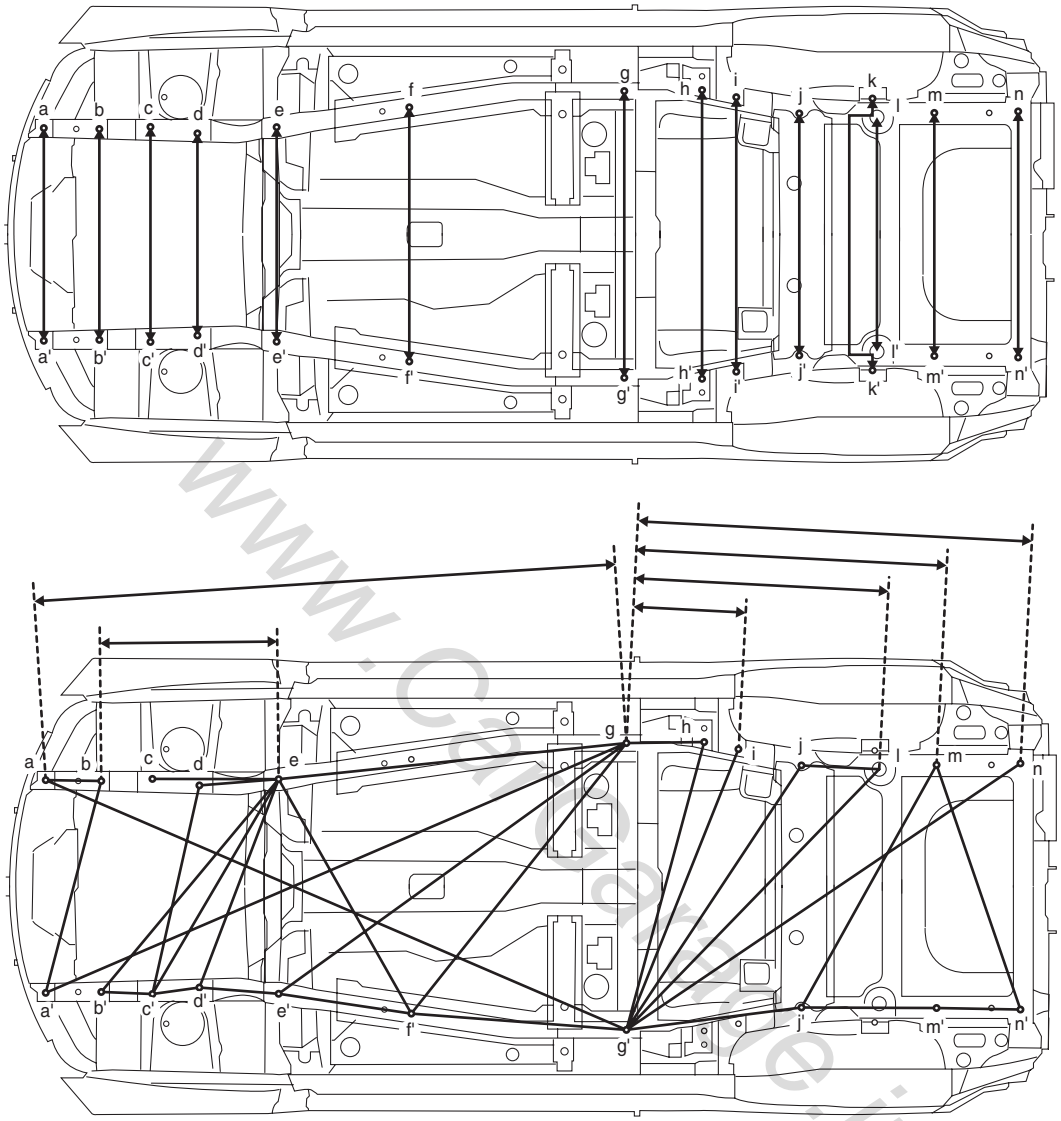
Under Body

5 door model



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a (a'). Jig hole (ϕ 16 mm)	f (f'). Engine rear mounting member installation hole	k (k'). Rear shock absorber installation hole
b (b'). Front suspension frame installation hole	g (g'). Jig hole (ϕ 25 mm)	l (l'). Rear coil spring hole
c (c'). Front suspension frame installation hole	h (h'). Trailing rod mount bracket installation front inner side hole	m (m'). Rear suspension frame installation rear side hole
d (d'). Front suspension frame installation hole	i (i'). Trailing rod mount bracket installation rear side hole	n (n'). Towing hook installation hole
e (e'). Front suspension frame installation hole	j (j'). Rear suspension frame installation front side hole	

Hole to hole distance

a-a': 860 mm (33.86 in.)	**f-f': 1013 mm (39.88 in.)**	**k-k': 1079 mm (42.48 in.)**
b-b': 830 mm (32.68 in.)	**g-g': 1144 mm (45.04 in.)**	**l-l': 936 mm (36.85 in.)**
c-c': 840 mm (33.07 in.)	**h-h': 1134 mm (44.65 in.)**	**m-m': 955 mm (37.60 in.)**
d-d': 794 mm (31.26 in.)	**i-i': 1116 mm (43.94 in.)**	**n-n': 953 mm (37.52 in.)**
e-e': 860 mm (33.86 in.)	**j-j': 1000 mm (39.37 in.)**	

Hole to hole distance

a-b: 198 mm (7.80 in.)	**d-e: 384 mm (15.12 in.)**	**g'-h: 1177 mm (46.34 in.)**
a-g: 2320 mm (91.34 in.)	**d'-e: 911 mm (35.87 in.)**	**g'-i: 1214 mm (47.80 in.)**
a-g': 2523 mm (99.33 in.)	**d'-e': 384 mm (15.12 in.)**	**g'-j: 1288 mm (50.71 in.)**

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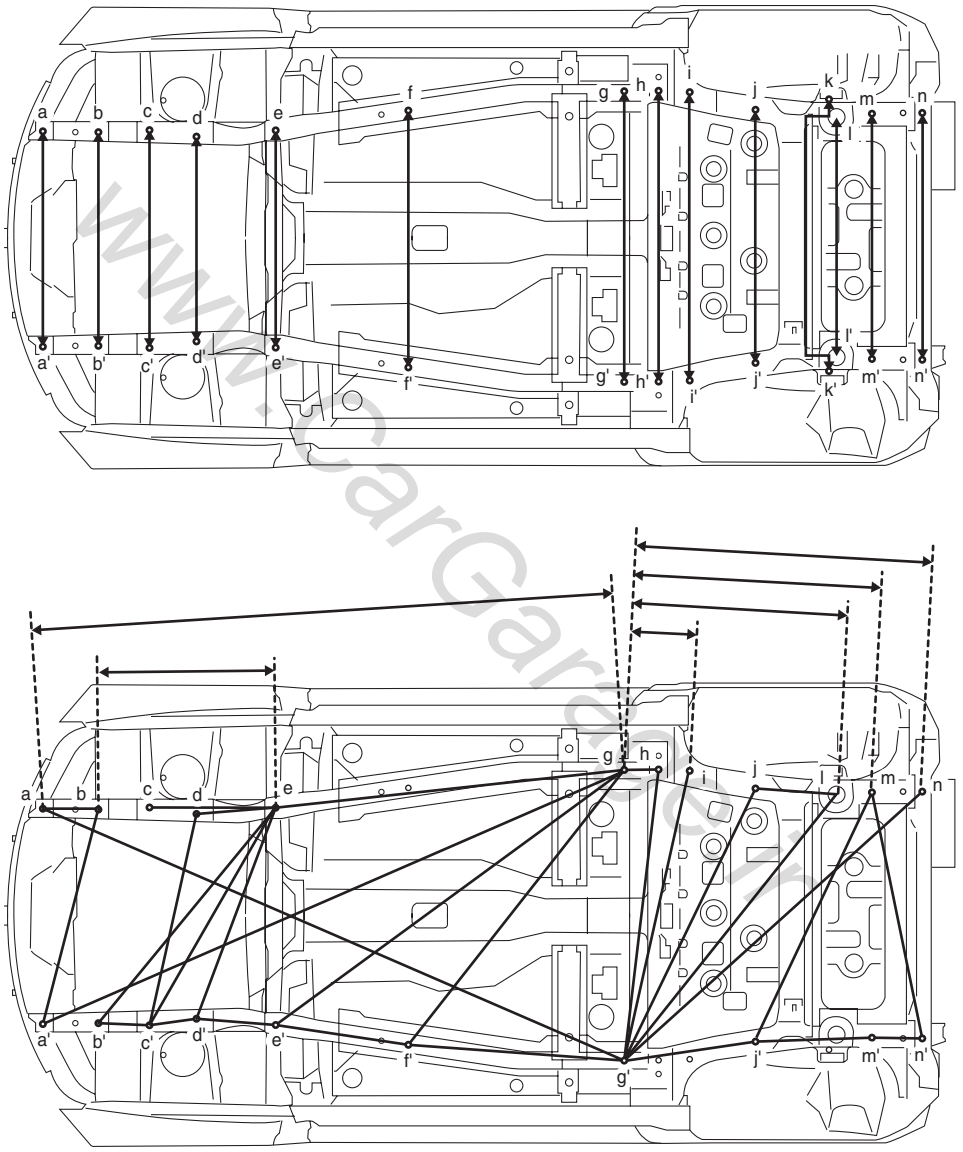
a'-b: 868 mm (34.17 in.)	e-f': 1067 mm (42.01 in.)	g'-j': 718 mm (28.27 in.)
a'-g: 2523 mm (99.33 in.)	e-g: 1381 mm (54.37 in.)	g'-l: 1446 mm (56.93 in.)
b-e: 750 mm (29.53 in.)	f'-g: 1380 mm (54.33 in.)	g'-n: 1892 mm (74.49 in.)
b'-c': 249 mm (9.80 in.)	f'-g': 864 mm (34.02 in.)	j-l: 314 mm (12.36 in.)
b'-e: 1130 mm (44.49 in.)	g-h: 295 mm (11.61 in.)	j'-m: 1078 mm (42.44 in.)
c-e: 532 mm (20.94 in.)	g-i: 445 mm (17.52 in.)	j'-m': 455 mm (17.91 in.)
c'-d: 833 mm (32.80 in.)	g-l: 1010 mm (39.76 in.)	m-n': 1046 mm (41.18 in.)
c'-d': 163 mm (6.42 in.)	g-m: 1158 mm (45.59 in.)	m'-n': 429 mm (16.89 in.)
c'-e: 1003 mm (39.49 in.)	g-n: 1577 mm (62.09 in.)	

3 door model



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a (a'). Jig hole (ϕ 16 mm)	f (f'). Engine rear mounting member installation hole	k (k'). Rear shock absorber installation hole
b (b'). Front suspension frame installation hole	g (g'). Jig hole (ϕ 25 mm)	l (l'). Rear coil spring hole
c (c'). Front suspension frame installation hole	h (h'). Trailing rod mount bracket installation front inner side hole	m (m'). Rear suspension frame installation rear side hole
d (d'). Front suspension frame installation hole	i (i'). Trailing rod mount bracket installation rear side hole	n (n'). Towing hook installation hole
e (e'). Front suspension frame installation hole	j (j'). Rear suspension frame installation front side hole	

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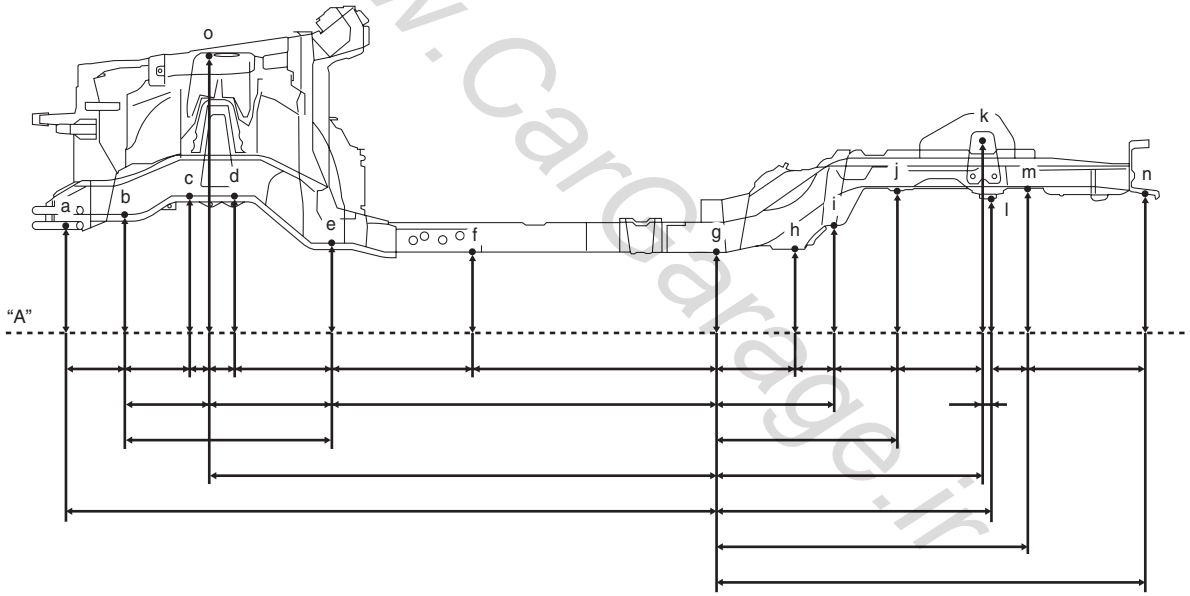
Hole to hole distance

a-a': 860 mm (33.86 in.)	f-f': 1013 mm (39.88 in.)	k-k': 1154 mm (45.43 in.)
b-b': 830 mm (32.68 in.)	g-g': 1144 mm (45.04 in.)	l-l': 937 mm (36.89 in.)
c-c': 840 mm (33.07 in.)	h-h': 1134 mm (44.65 in.)	m-m': 955 mm (37.60 in.)
d-d': 794 mm (31.26 in.)	i-i': 1116 mm (43.94 in.)	n-n': 954 mm (37.56 in.)
e-e': 860 mm (33.86 in.)	j-j': 1000 mm (39.37 in.)	

Hole to hole distance

a-b: 198 mm (7.80 in.)	d-e: 384 mm (15.12 in.)	g'-h: 1143 mm (45.00 in.)
a-g: 2320 mm (91.34 in.)	d'-e: 911 mm (35.87 in.)	g'-i: 1158 mm (45.59 in.)
a-g': 2523 mm (99.33 in.)	d'-e': 384 mm (15.12 in.)	g'-j: 1196 mm (47.09 in.)
a'-b: 868 mm (34.17 in.)	e-f': 1067 mm (42.01 in.)	g'-j': 534 mm (21.02 in.)
a'-g: 2523 mm (99.33 in.)	e-g: 1381 mm (54.37 in.)	g'-l: 1317 mm (51.85 in.)
b-e: 750 mm (29.53 in.)	f'-g: 1380 mm (54.33 in.)	g'-n: 1549 mm (60.98 in.)
b'-c': 249 mm (9.80 in.)	f'-g': 864 mm (34.02 in.)	j-l: 314 mm (12.36 in.)
b'-e: 1130 mm (44.49 in.)	g-h: 96 mm (3.78 in.)	j'-m: 1078 mm (42.44 in.)
c-e: 532 mm (20.94 in.)	g-i: 254 mm (10.00 in.)	j'-m': 455 mm (17.91 in.)
c'-d: 833 mm (32.80 in.)	g-l: 815 mm (32.09 in.)	m-n': 973 mm (38.31 in.)
c'-d': 163 mm (6.42 in.)	g-m: 963 mm (37.91 in.)	m'-n': 190 mm (7.48 in.)
c'-e: 1003 mm (39.49 in.)	g-n: 1144 mm (45.04 in.)	

5 door model



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a. Jig hole (ϕ 16 mm)	f. Engine rear mounting member installation hole	k. Rear shock absorber installation hole
b. Front suspension frame installation hole	g. Jig hole (ϕ 25 mm)	l. Rear coil spring hole
c. Front suspension frame installation hole	h. Trailing rod mount bracket installation front inner side hole	m. Rear suspension frame installation rear side hole
d. Front suspension frame installation hole	i. Trailing rod mount bracket installation rear side hole	n. Towing hook installation hole
e. Front suspension frame installation hole	j. Rear suspension frame installation front side hole	o. Jig hole (ϕ 10 mm)

Hole to hole distance

a-b: 196 mm (7.72 in.)	d-e: 344 mm (13.54 in.)	g-m: 1131 mm (44.53 in.)
a-g: 2313 mm (91.06 in.)	e-f: 512 mm (20.16 in.)	g-n: 1560 mm (61.42 in.)
b-c: 239 mm (9.41 in.)	e-g: 1373 mm (54.06 in.)	h-i: 139 mm (5.47 in.)
b-o: 289 mm (11.38 in.)	f-g: 862 mm (33.94 in.)	i-j: 243 mm (9.57 in.)
b-e: 744 mm (29.29 in.)	g-h: 295 mm (11.61 in.)	j-k: 294 mm (11.57 in.)
c-o: 50 mm (1.97 in.)	g-i: 434 mm (17.09 in.)	k-l: 15 mm (0.59 in.)
o-d: 111 mm (4.37 in.)	g-j: 677 mm (26.65 in.)	l-m: 145 mm (5.71 in.)
o-e: 455 mm (17.91 in.)	g'-k: 971 mm (38.23 in.)	m-n: 429 mm (16.89 in.)
o-g: 1828 mm (71.97 in.)	g-l: 987 mm (38.86 in.)	

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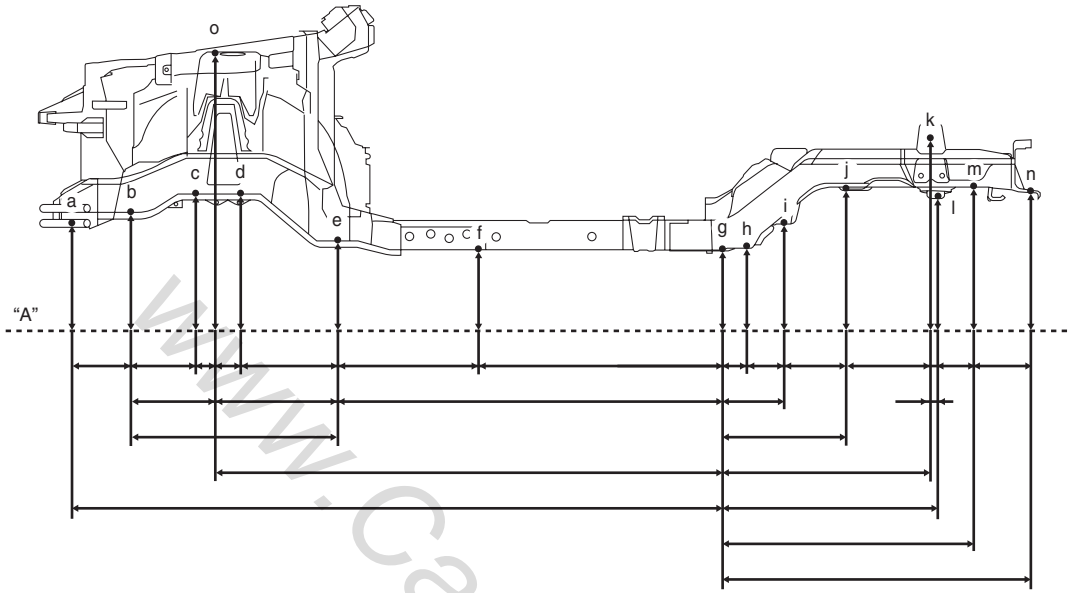
Projection dimension from standard line "A"

a: 166 mm (6.54 in.)	f: 66 mm (2.60 in.)	k: 436 mm (17.17 in.)
b: 193 mm (7.60 in.)	g: 64 mm (2.52 in.)	l: 252 mm (9.92 in.)
c: 263 mm (10.35 in.)	h: 72 mm (2.83 in.)	m: 293 mm (11.54 in.)
d: 263 mm (10.35 in.)	i: 159 mm (6.26 in.)	n: 275 mm (10.83 in.)
e: 95 mm (3.74 in.)	j: 293 mm (11.54 in.)	o: 774 mm (30.47 in.)

3 door model



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a. Jig hole (ϕ 16 mm)	f. Engine rear mounting member installation hole	k. Rear shock absorber installation hole
b. Front suspension frame installation hole	g. Jig hole (ϕ 25 mm)	l. Rear coil spring hole
c. Front suspension frame installation hole	h. Trailing rod mount bracket installation front inner side hole	m. Rear suspension frame installation rear side hole
d. Front suspension frame installation hole	i. Trailing rod mount bracket installation rear side hole	n. Towing hook installation hole
e. Front suspension frame installation hole	j. Rear suspension frame installation front side hole	o. Jig hole (ϕ 10 mm)

Hole to hole distance

a-b: 196 mm (7.72 in.)	d-e: 344 mm (13.54 in.)	g-m: 931 mm (36.65 in.)
a-g: 2313 mm (91.06 in.)	e-f: 511 mm (20.12 in.)	g-n: 1120 mm (44.09 in.)
b-c: 239 mm (9.41 in.)	e-g: 1373 mm (54.06 in.)	h-i: 139 mm (5.47 in.)
b-o: 289 mm (11.38 in.)	f-g: 862 mm (33.94 in.)	i-j: 243 mm (9.57 in.)
b-e: 744 mm (29.29 in.)	g-h: 95 mm (3.74 in.)	j-k: 294 mm (11.57 in.)
c-o: 50 mm (1.97 in.)	g-i: 234 mm (9.21 in.)	k-l: 15 mm (0.59 in.)
o-d: 111 mm (4.37 in.)	g-j: 477 mm (18.78 in.)	l-m: 145 mm (5.71 in.)
o-e: 455 mm (17.91 in.)	g'-k: 771 mm (30.35 in.)	m-n: 189 mm (7.44 in.)
o-g: 1828 mm (71.97 in.)	g-l: 786 mm (30.94 in.)	

Projection dimension from standard line "A"

a: 166 mm (6.54 in.)	f: 65 mm (2.56 in.)	k: 440 mm (17.32 in.)
b: 193 mm (7.60 in.)	g: 63 mm (2.48 in.)	l: 250 mm (9.84 in.)
c: 263 mm (10.35 in.)	h: 73 mm (2.87 in.)	m: 293 mm (11.54 in.)
d: 263 mm (10.35 in.)	i: 160 mm (6.30 in.)	n: 275 mm (10.83 in.)
e: 95 mm (3.74 in.)	j: 293 mm (11.54 in.)	o: 772 mm (30.39 in.)

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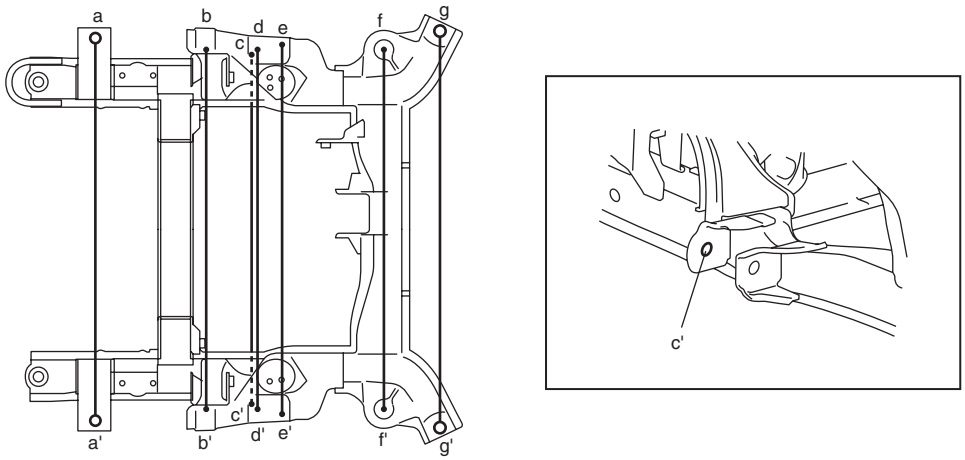
Front Suspension Frame

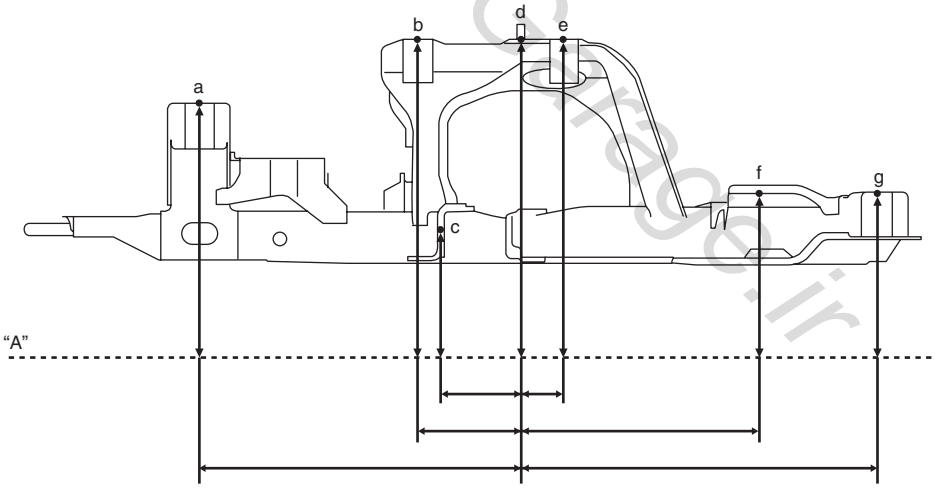


I5JB0A9B0013-01

a (a'). Front suspension frame installation front side bolt hole	d (d'). Front suspension frame stud	g (g'). Front suspension frame installation rear side bolt hole
b (b'). Front suspension frame installation bolt hole	e (e'). Front suspension frame installation bolt hole	
c (c'). Front suspension arm installation front side hole	f (f'). Front suspension arm installation rear side hole	

Hole to hole distance

a-a': 830 mm (32.68 in.)	**d-d': 790 mm (31.10 in.)**	**g-g': 860 mm (33.86 in.)**
b-b': 840 mm (33.07 in.)	**e-e': 794 mm (31.26 in.)**	
c-c': 780 mm (30.71 in.)	**f-f': 780 mm (30.71 in.)**	



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a. Front suspension frame installation front side bolt hole	d. Front suspension frame stud	g. Front suspension frame installation rear side bolt hole
b. Front suspension frame installation bolt hole	e. Front suspension frame installation bolt hole	
c. Front suspension arm installation front side hole	f. Front suspension arm installation rear side hole	

Hole to hole distance

a-d: 349 mm (13.74 in.)	**d-e: 51 mm (2.01 in.)**
b-d: 110 mm (4.33 in.)	**d-f: 275 mm (10.83 in.)**
c-d: 80 mm (3.15 in.)	**d-g: 395 mm (15.55 in.)**

Projection dimension from standard line "A"

a: 193 mm (7.60 in.)	**d: 263 mm (10.35 in.)**	**g: 95 mm (3.74 in.)**
b: 263 mm (10.35 in.)	**e: 263 mm (10.35 in.)**	
c: 49 mm (1.93 in.)	**f: 96 mm (3.78 in.)**	

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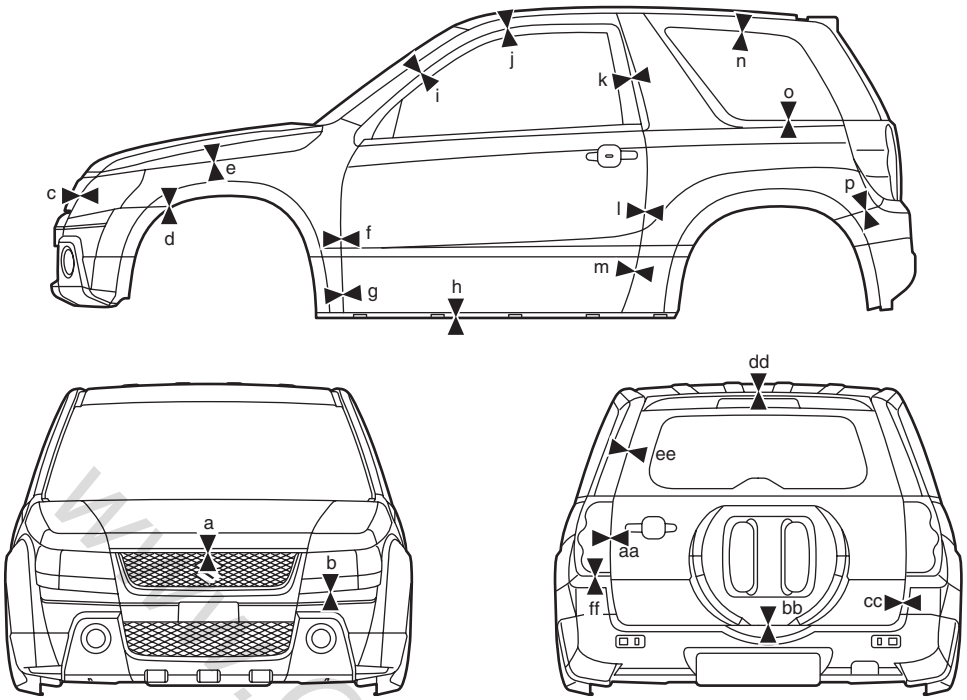
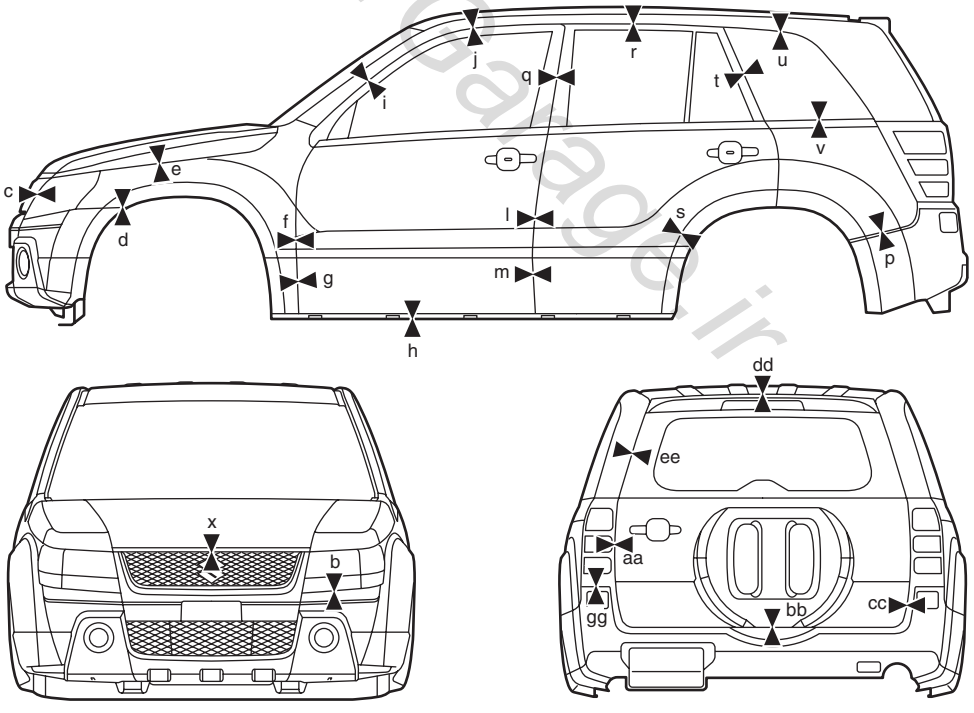
Panel Clearance

S5JB0A9B07002

[A]



[B]



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Panel to panel distance

[A]: 3 door model	j: 4.0 – 6.0 mm (0.158 – 0.236 in.)	u: 1.8 – 3.8 mm (0.071 – 0.149 in.)
[B]: 5 door model	k: 4.4 – 6.4 mm (0.213 – 0.251 in.)	v: 3.3 – 5.3 mm (0.130 – 0.208 in.)
a: 4.9 – 6.9 mm (0.193 – 0.271 in.)	l: 3.0 – 5.0 mm (0.119 – 0.196 in.)	w: 3.0 – 5.0 mm (0.119 – 0.196 in.)
b: 1.0 – 3.0 mm (0.040 – 0.118 in.)	m: 4.0 – 6.0 mm (0.158 – 0.236 in.)	x: 5.9 – 7.9 mm (0.233 – 0.311 in.)
c: 1.9 – 2.9 mm (0.075 – 0.114 in.)	n: 2.5 – 4.5 mm (0.099 – 0.177 in.)	aa: 4.0 – 6.0 mm (0.158 – 0.236 in.)
d: 0.5 – 1.0 mm (0.020 – 0.039 in.)	o: 2.0 – 4.0 mm (0.079 – 0.157 in.)	bb: 6.3 – 8.3 mm (0.249 – 0.327 in.)
e: 5.8 – 7.8 mm (0.229 – 0.307 in.)	p: 0.5 – 1.0 mm (0.020 – 0.039 in.)	cc: 5.0 – 7.0 mm (0.197 – 0.275 in.)
f: 3.0 – 5.0 mm (0.119 – 0.196 in.)	q: 3.0 – 5.0 mm (0.119 – 0.196 in.)	dd: 6.2 – 8.2 mm (0.245 – 0.322 in.)
g: 4.0 – 6.0 mm (0.158 – 0.236 in.)	r: 4.0 – 6.0 mm (0.158 – 0.236 in.)	ee: 4.0 – 6.0 mm (0.158 – 0.236 in.)
h: 15.7 – 17.7 mm (0.619 – 0.696 in.)	s: 17.5 – 19.5 mm (0.689 – 0.767 in.)	ff: 1.1 – 3.1 mm (0.044 – 0.122 in.)
i: 4.0 – 6.0 mm (0.158 – 0.236 in.)	t: 6.0 – 8.0 mm (0.237 – 0.314 in.)	gg: 1.0 – 3.0 mm (0.040 – 0.118 in.)

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Paint / Coatings

General Description

Anti-Corrosion Treatment Construction

S5JB0A9C01001

⚠ WARNING

Standard shop practices, particularly eye protection, should be followed during the performance of the following operations to avoid personal injury.

As rust proof treatment, steel sheets are given corrosion resistance on the interior and/or exterior.
These corrosion resistance steel sheet materials are called one of two-side galvanized steel sheets.
It is for the sake of rust protection that these materials are selected and given a variety of treatments as described blow.

- Steel sheets are treated with cathodic electro primer which is excellent in corrosion resistance.
- Rust proof wax coatings are applied to door and side sill insides where moisture is liable to stay.
- Vinyl coating is applied to body underside and wheel housing inside.
- Sealer is applied to door hem, engine compartment steel sheet-to-steel sheet joint, and the like portions to prevent water penetration and resulting in rust occurrence.

In panel replacement or collision damage repair, leaving the relevant area untreated as it is in any operation which does disturb the rust proof treatment will cause corrosion to that area. Therefore, it is the essential function of any repair operation to correctly recoat the related surfaces of the relevant area.
All the metal panels are coated with metal conditioners and primer coating during vehicle production. Following the repair and/or replacement parts installation, every accessible bare metal surface should be cleaned and coated with rust proof primer. Perform this operation prior to the application of sealer and rust proof wax coating.

Sealer is applied to the specific joints of a vehicle during production. The sealer is intended to prevent dust from entering the vehicle and serves also as an anticorrosion barrier. The sealer is applied to the door and hood hem areas and between panels. Correct and reseal the originally sealed joints if damaged. Reseal the attaching joints of a new replacement panel and reseal the hem area of a replacement door or hood.
Use a quality sealer to seal the flanged joints, overlap joints and seams. The sealer must have flexible characteristics and paint ability after it's applied to repair areas.
For the sealer to fill open joints, use caulking material. Select a sealer in conformance with the place and purpose of a specific use. Observe the manufacturer's label-stand instructions when using the sealer.
In many cases, repaired places require color painting. When this is required, follow the ordinary techniques specified for the finish preparation, color painting and undercoating build-up.
Rust proof wax, a penetrative compound, is applied to the metal-to-metal surfaces (door and side sill insides) where it is difficult to use ordinary undercoating material for coating. Therefore, when selecting the rust proof wax, it may be the penetrative type.
During the undercoating (vinyl coating) application, care should be taken that sealer is not applied to the engine-related parts and shock absorber mounting or rotating parts. Following the under coating, make sure that body drain holes are kept open.
The sequence of the application steps of the anti-corrosion materials are as follows:

1) Clean and prepare the metal surface.
2) Apply primer.
3) Apply sealer (all joints sealed originally).
4) Apply color in areas where color is required such as hem flanges, exposed joints and under body components.
5) Apply anticorrosion compound (penetrative wax).
6) Apply undercoating (rust proof material).

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Plastic Parts Finishing

S5JB0A9C01002

Paintable plastic parts are ABS plastic parts.

Painting

Rigid or hand ABS plastic needs no primer coating. General acrylic lacquers can be painted properly over hard ABS plastic in terms of adherence.

1) Use cleaning solvent for paint finish to wash each part.
2) Apply conventional acrylic color lacquer to part surface.
3) Follow lacquer directions for required drying time. (Proper drying temperature range is 60 – 70 °C (140 – 158 °F)).

Reference

Plastic parts employ not only ABS (Acrylonitrile Butadiene Styrene) plastic but also polypropylene, vinyl, or the like plastic. Burning test method to identify ABS plastic is described below.

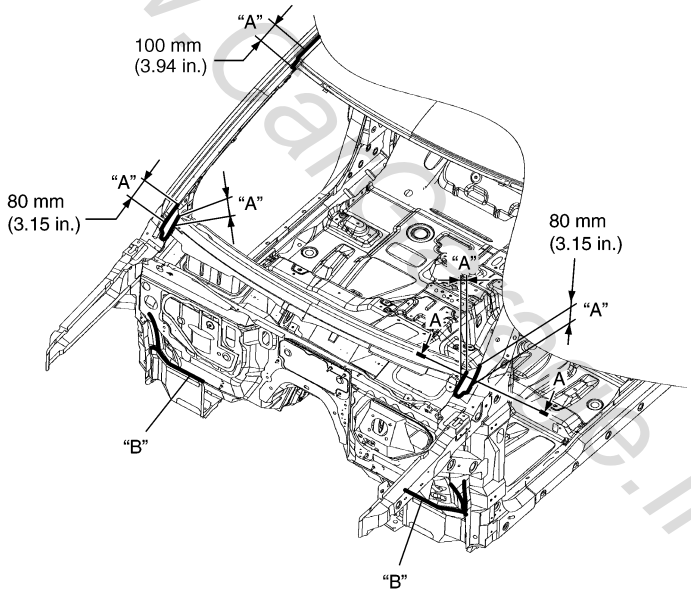
1) Use a sharp blade to cut off a plastic sliver from the part at its hidden backside.
2) Hold sliver with pincers and set it on fire.
3) Carefully observe condition of the burning plastic.
4) ABS plastic must raise readily distinguishable back smoke while burning with its residue suspended in air temporarily.
5) Polypropylene must raise no readily distinguishable smoke while burning.

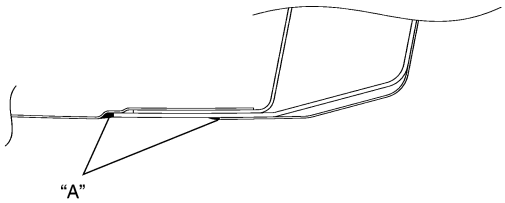
Component Location

Sealant Application Areas

S5JB0A9C03001

Front Structure Panel





A – A

I5JB0A9C0001-03

"A": Flatten sealant.	"B": Smooth out sealant with a brush.

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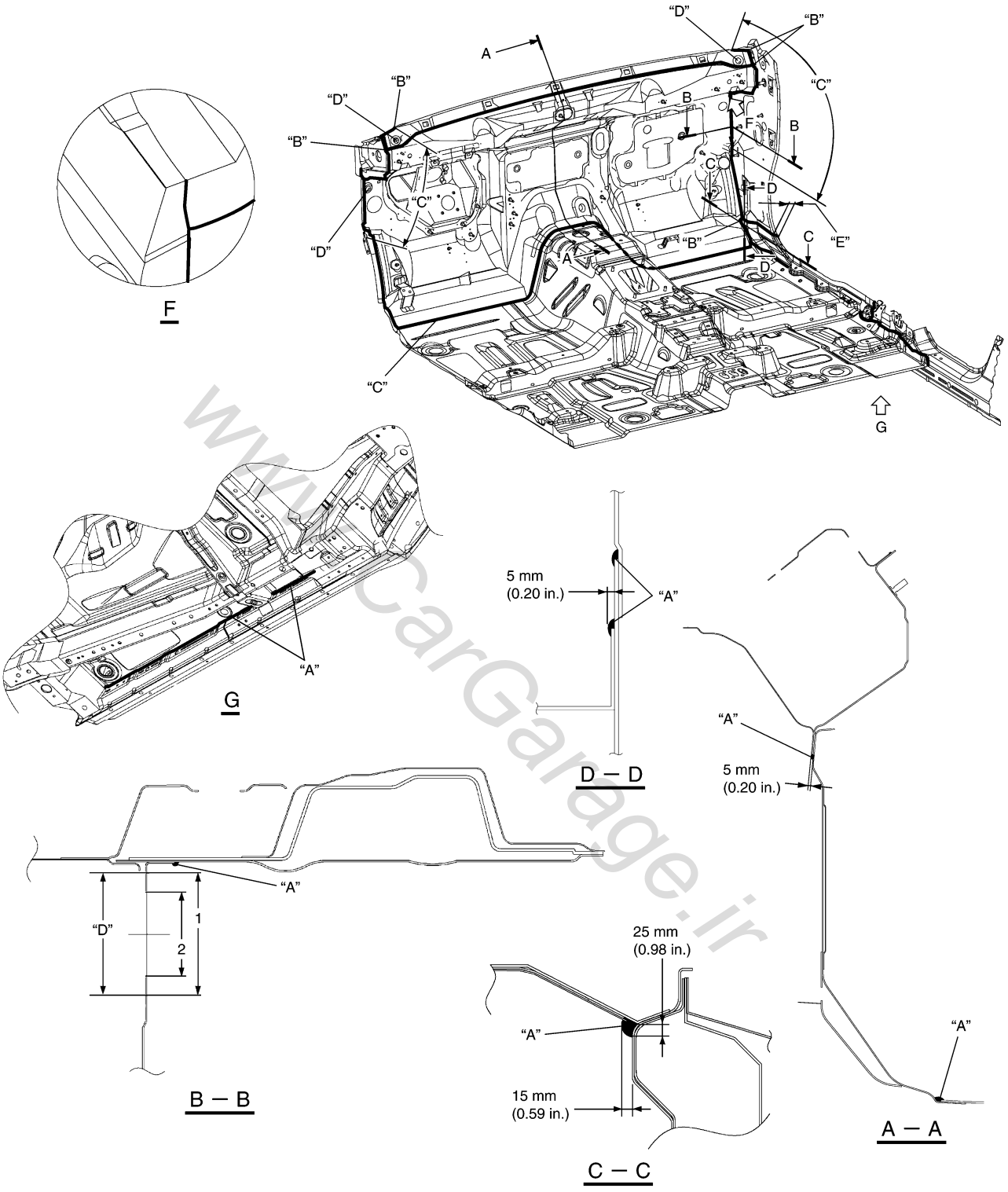
Dash Panel and Front Floor Panel (5 Door Model)



I5JB0A9C0002-01

"A": Apply sealant.	"E": Flatten sealant.
"B": Fill gap / hole with sealant.	1. 88 mm (3.46 in.) diameter
"C": Smooth out sealant with a brush.	2. 60 mm (2.36 in.) diameter hole
"D": Do not apply sealant.	

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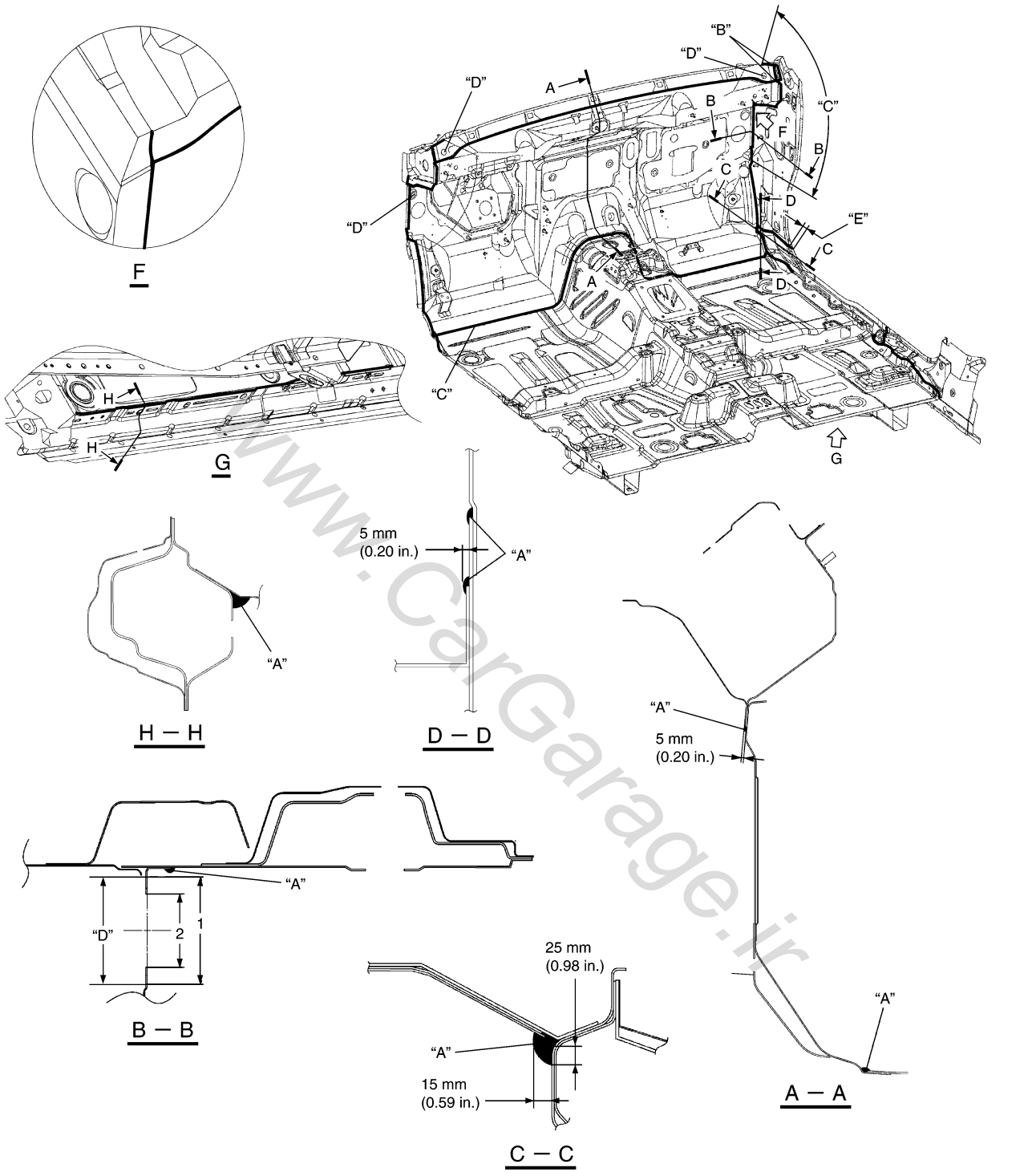
Dash Panel and Front Floor Panel (3 Door Model)



I5JB0A9C0003-01

"A": Apply sealant.	"E": Flatten sealant.
"B": Fill gap / hole with sealant.	1. 88 mm (3.46 in.) diameter
"C": Smooth out sealant with a brush.	2. 60 mm (2.36 in.) diameter hole
"D": Do not apply sealant.	

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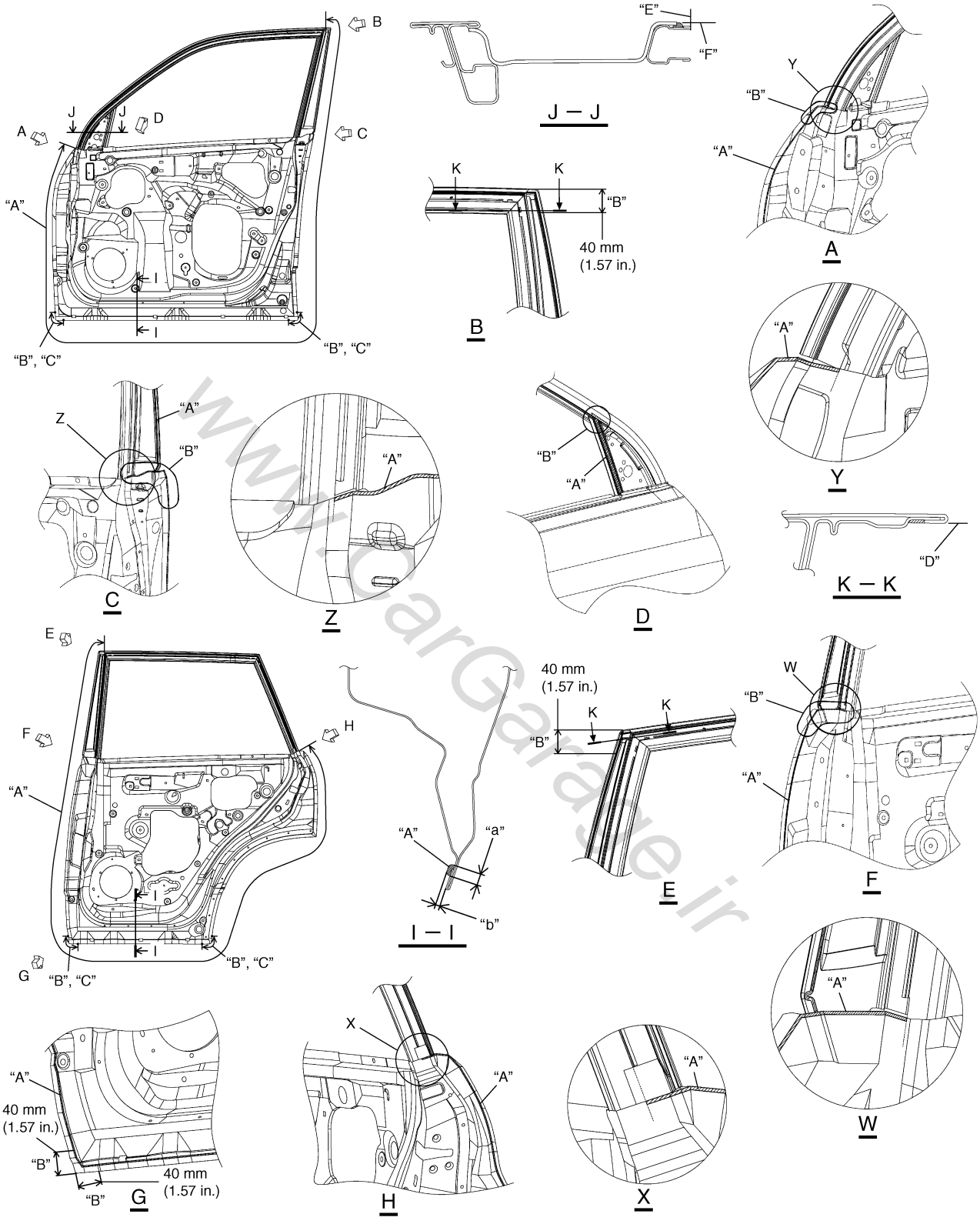
Front and Rear Door Panels (5 Door Model)



I5JB0A9C0004-02

"A": Apply sealant.	"D": Wipe off sealant so as not to protrude from this surface.	"a": Min. 6 mm (0.24 in.)
"B": Wipe off excess sealant after application.	"E": Do not protrude sealant backward from this line.	"b": Max. 3 mm (0.12 in.)
"C": Do not fill up drain hole.	"F": Do not protrude sealant outside from this line.	

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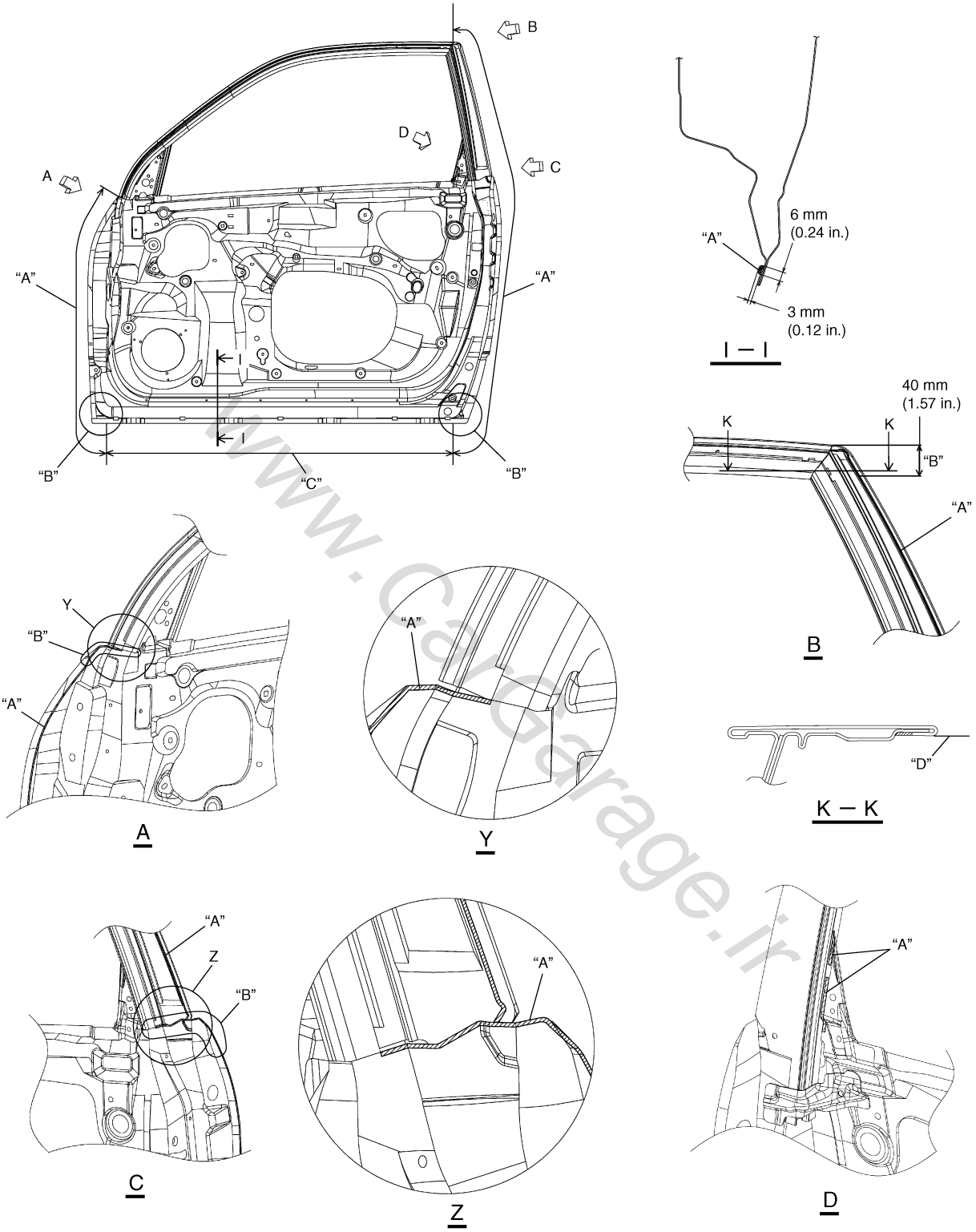
Front Door Panel (3 Door Model)



I5JB0A9C0005-01

"A": Apply sealant.	"C": Apply wide sealant.
"B": Wipe off excess sealant after application.	"D": Wipe off sealant so as not to protrude from this surface.

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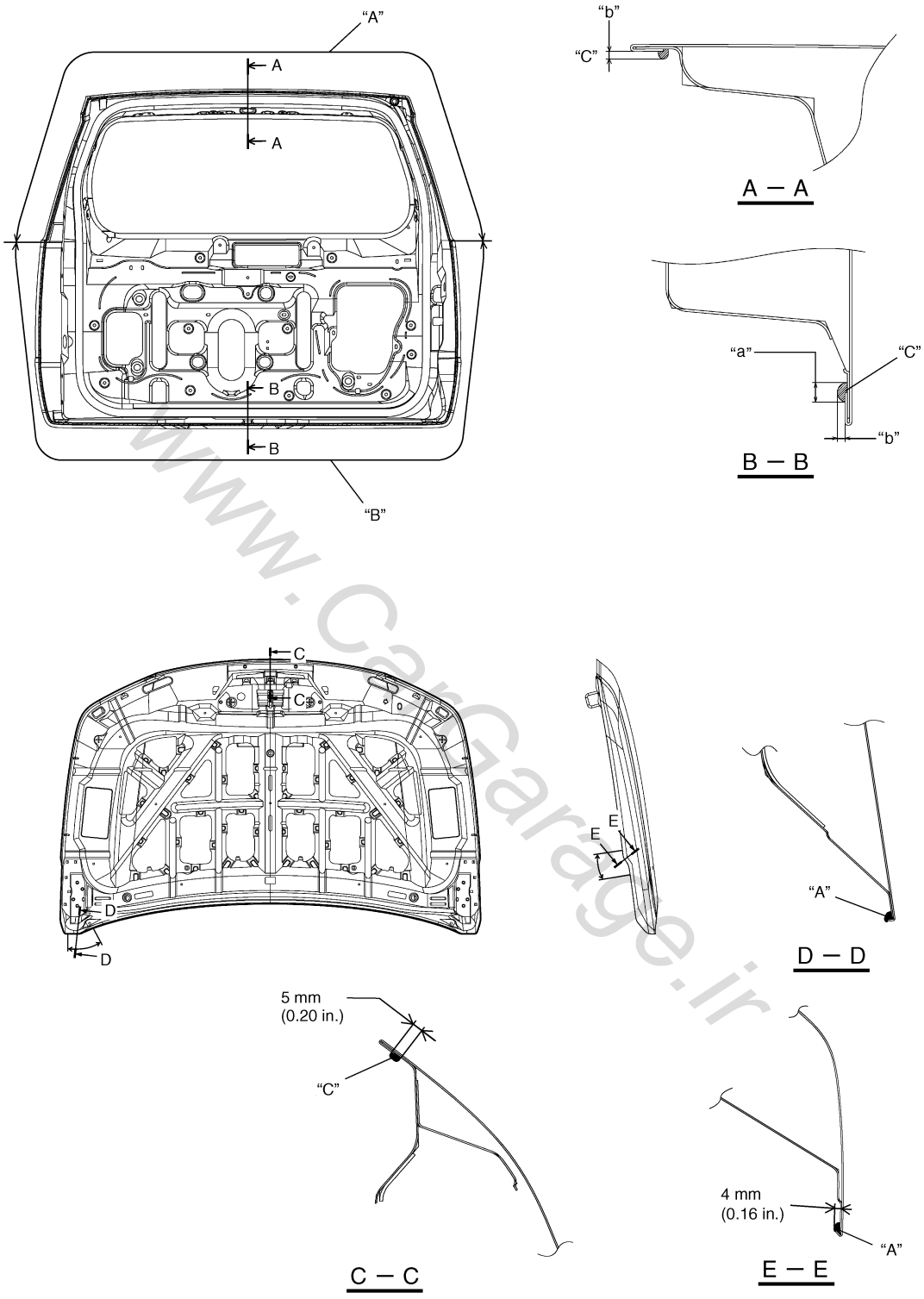
Rear End Door Panel and Hood Panel



I5JB0A9C0006-02

"A": Apply sealant.	"a": Min. 6 mm (0.24 in.)
"B": Apply wide sealant.	"b": Max. 3 mm (0.12 in.)
"C": Apply sealant covering flange end.	

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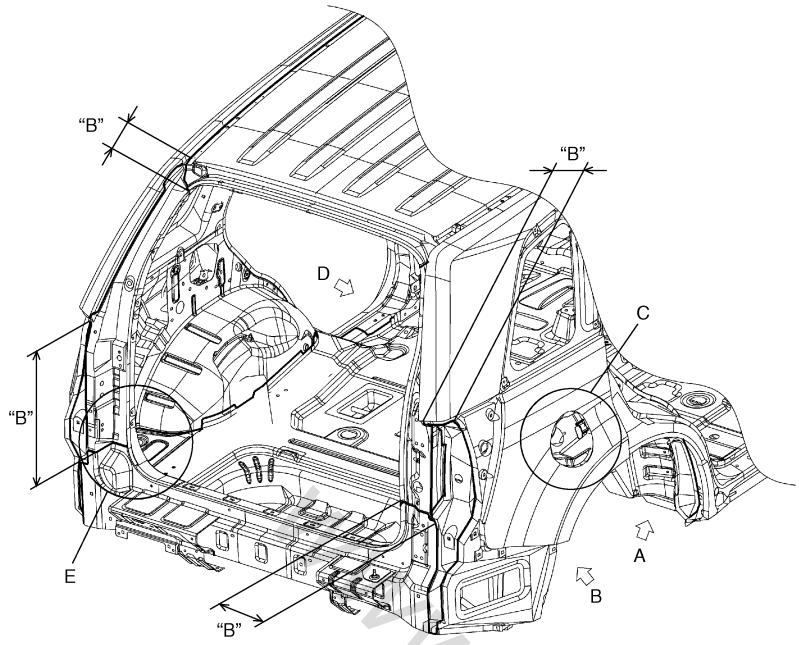
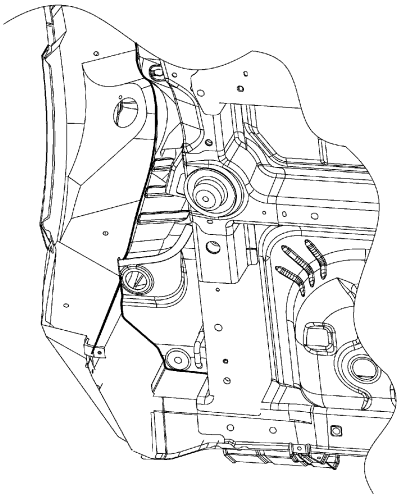
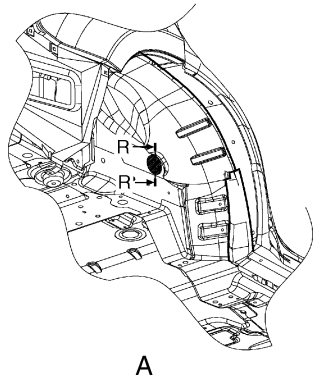
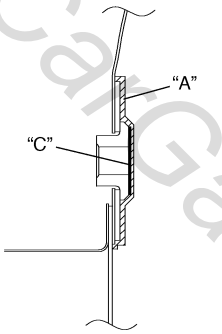
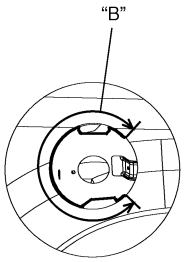
Rear Structure Panel (5 Door Model)

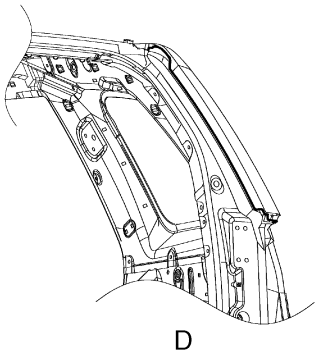


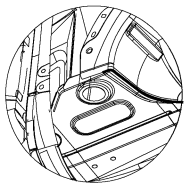












I5JB0A9C0007-02

"A": Apply sealant.	"C": Do not apply sealant.
"B": Smooth out sealant with a brush.	

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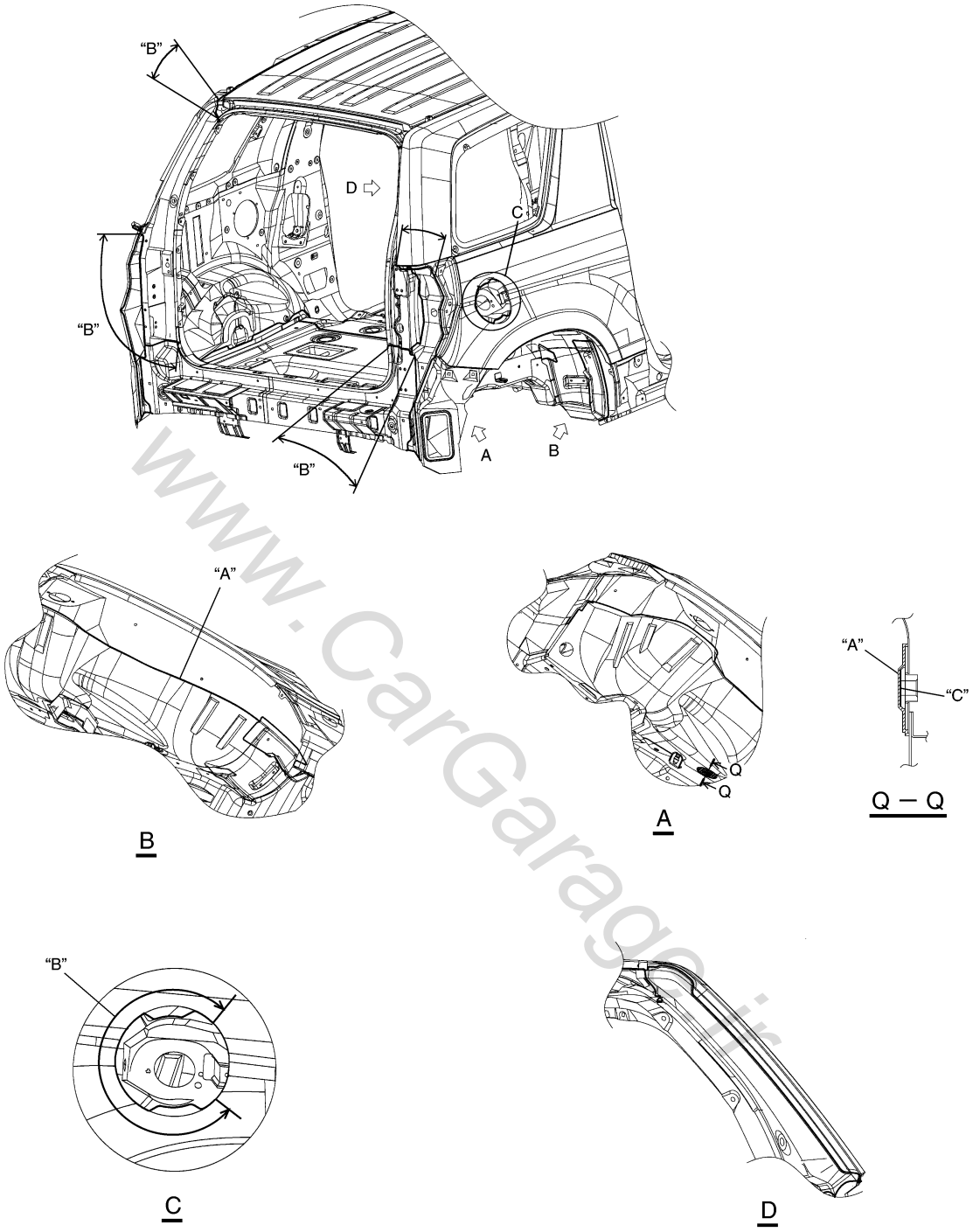
Rear Structure Panel (3 Door Model)



I5JB0A9C0008-02

"A": Apply sealant.	"C": Do not apply sealant.
"B": Smooth off sealant with a brush.	

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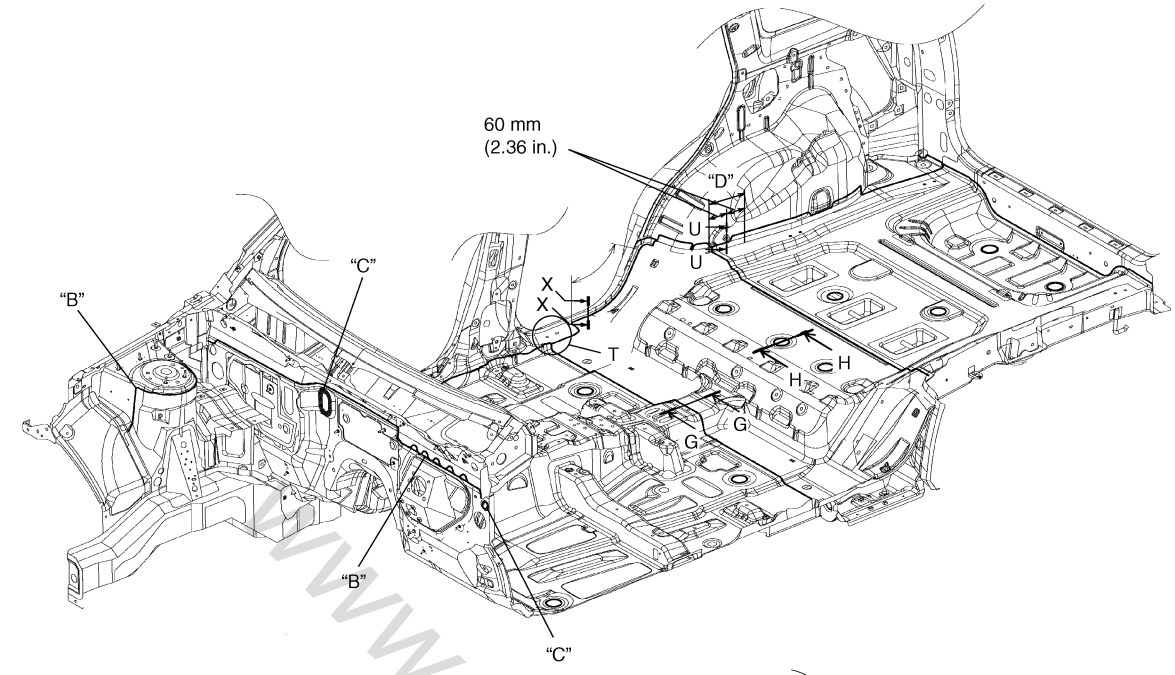
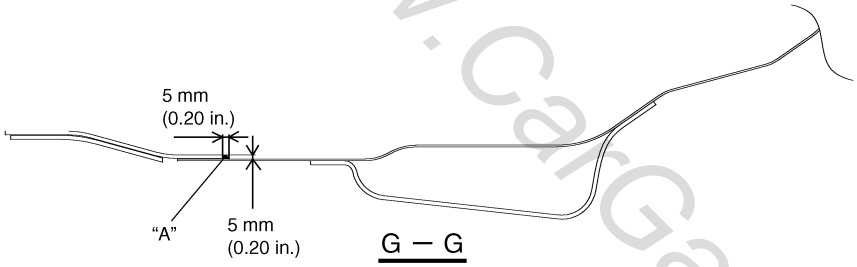
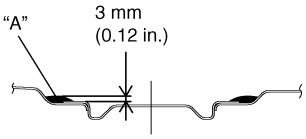
Floor Panel (5 Door Model)

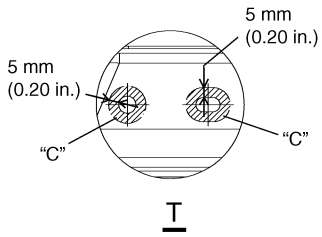




G — G



H — H



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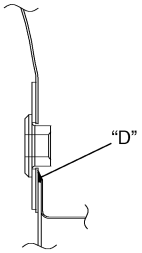
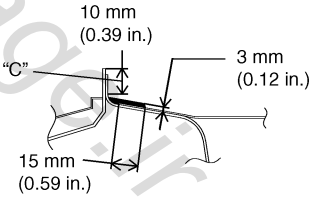


U — U



X — X

I5JB0A9C0009-01

"A": Apply sealant.	"C": Do not apply sealant.
"B": Smooth off sealant with a brush.	"D": Flatten sealant.

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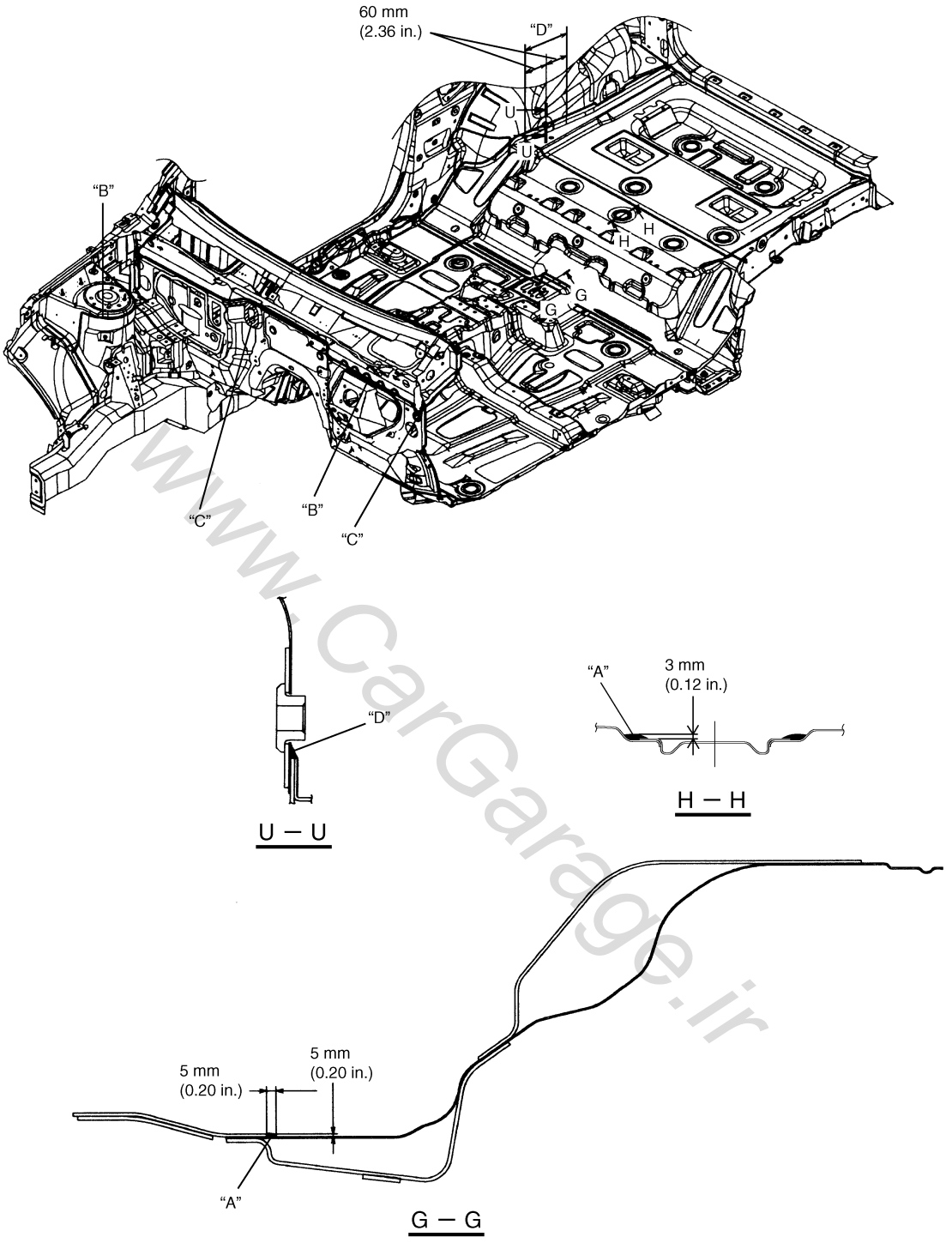
Floor Panel (3 Door Model)



I5JB0A9C0010-01

"A": Apply sealant.	"C": Do not apply sealant.
"B": Smooth off sealant with a brush.	"D": Flatten sealant.

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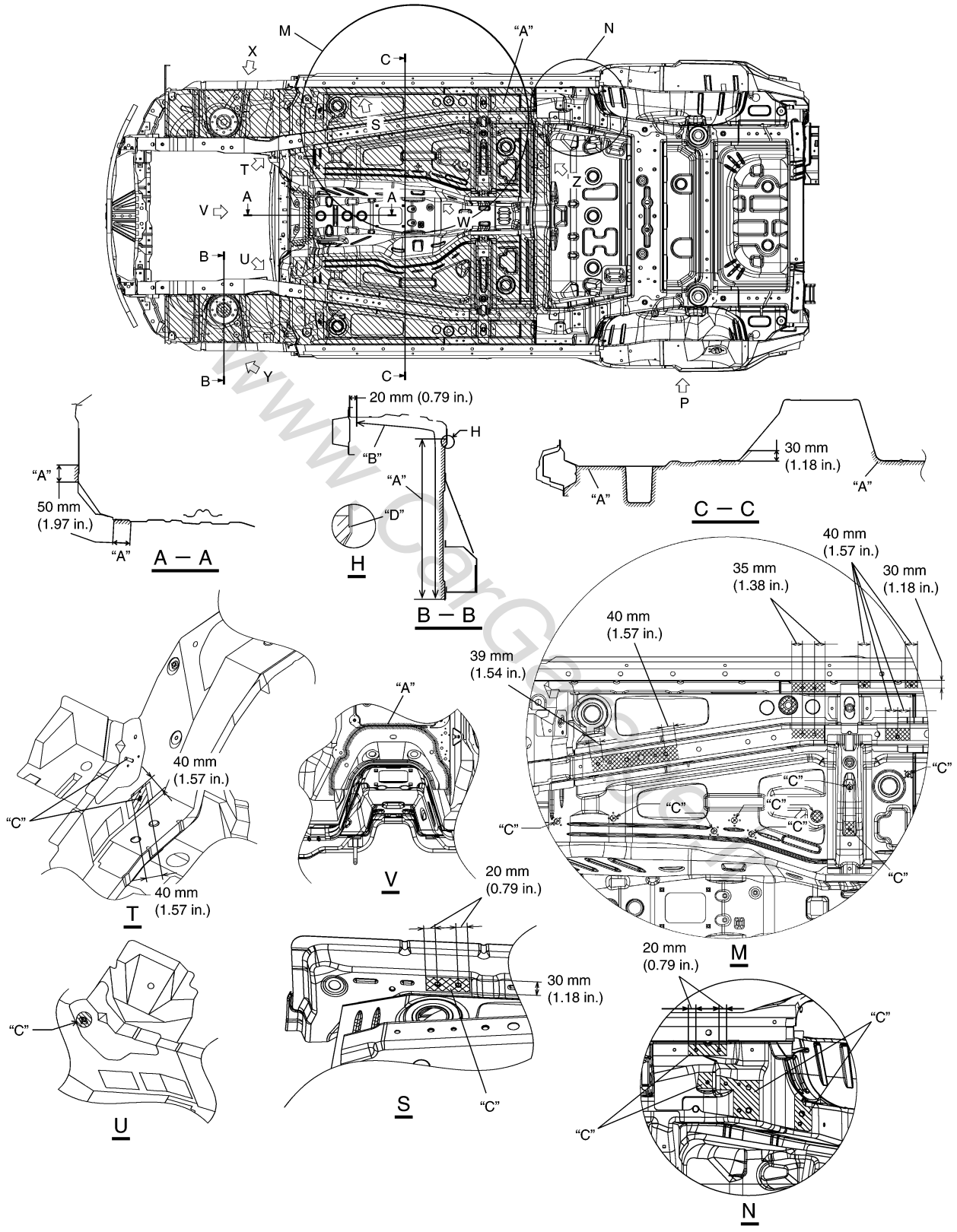
Under Coating Application Areas

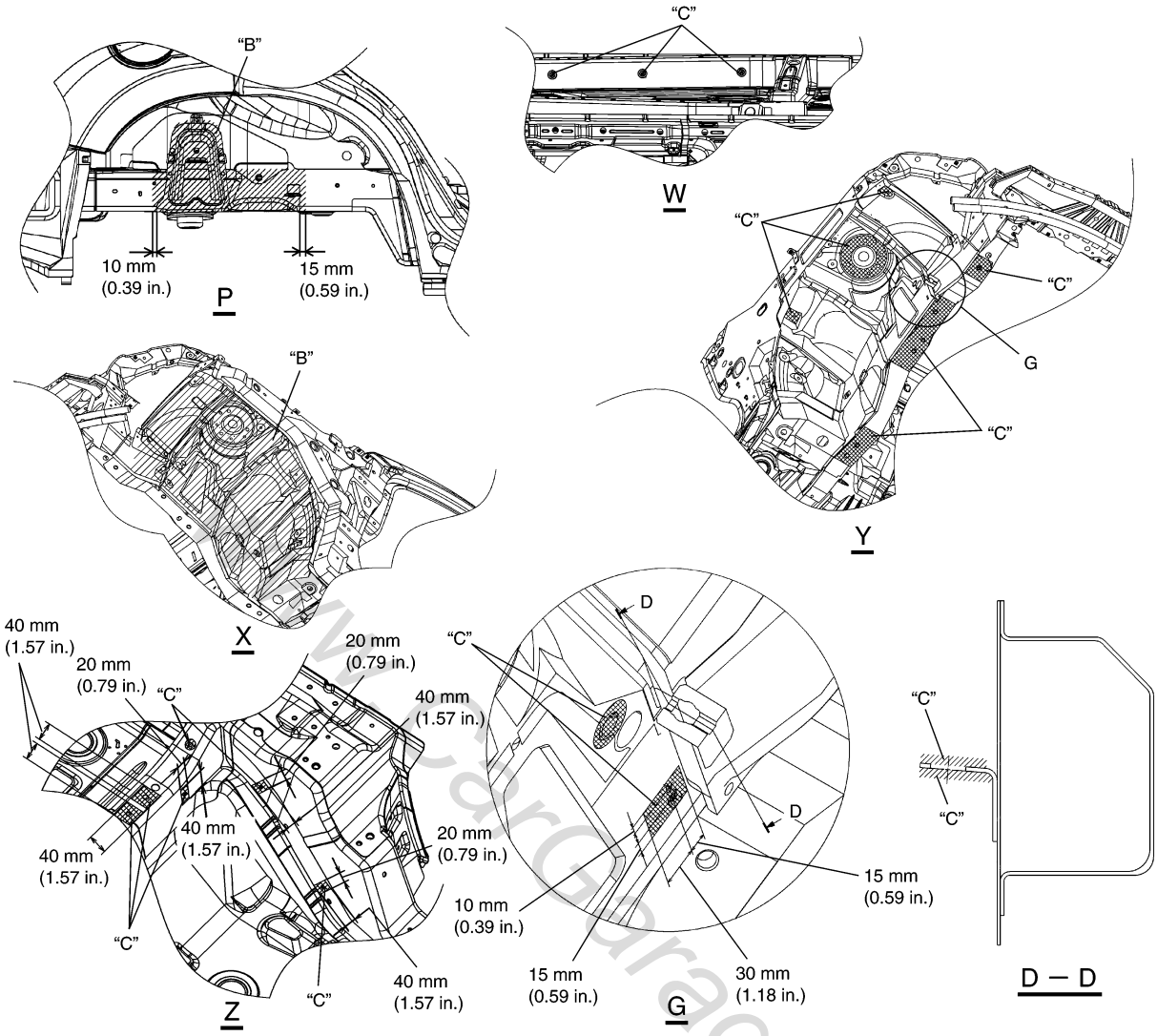
S5JB0A9C03002

5 Door Model



I5JB0A9C0011-01

"A": Apply undercoating (PVC, 400 μm or more).	"C": Do not apply undercoating.
"B": Apply black painting.	"D": Apply undercoating (PVC, 400 μm or more) covering flange end.



I5JB0A9C0012-01

"A": Apply undercoating (PVC, 400 μm or more).	"C": Do not apply undercoating.
"B": Apply black painting.	

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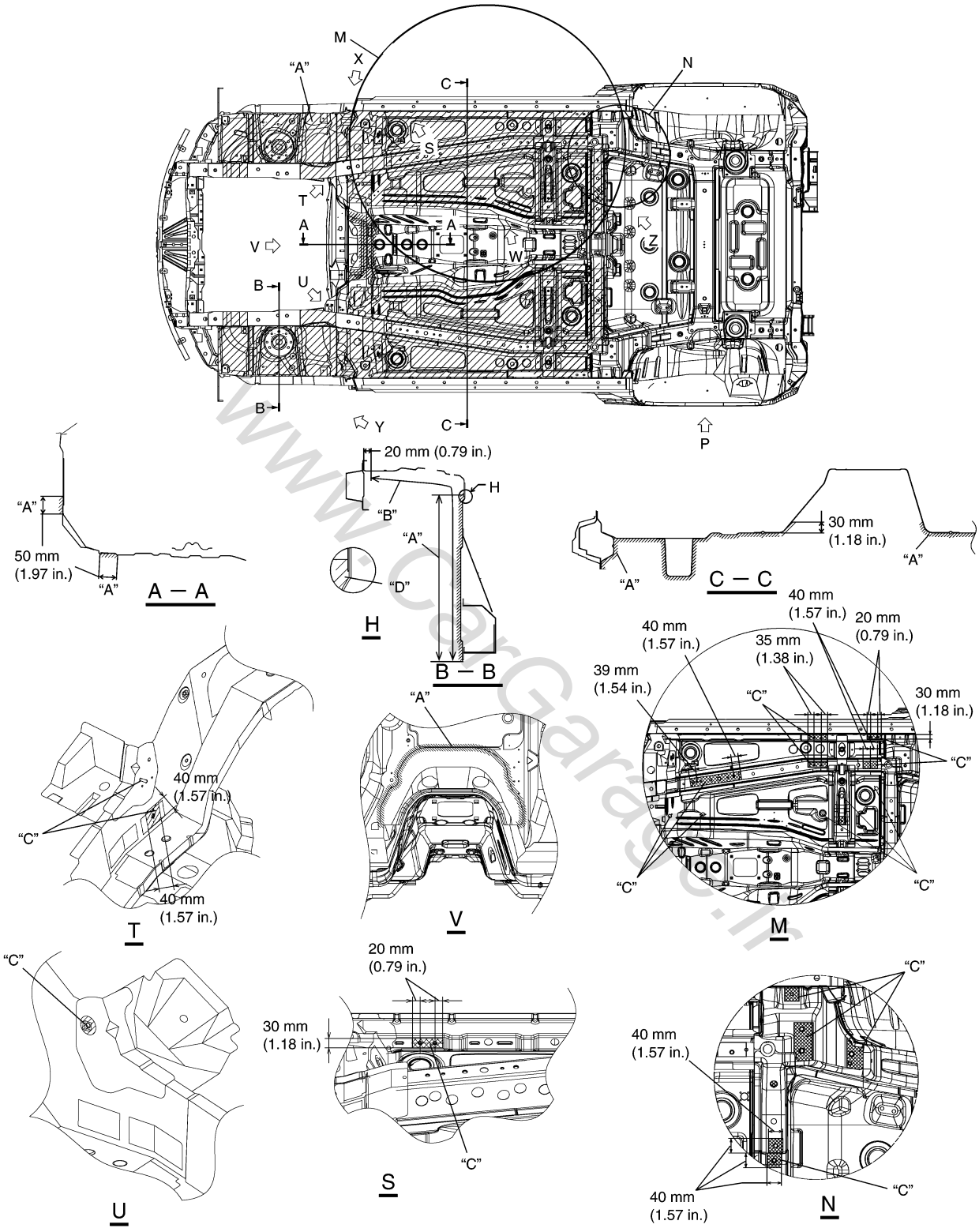
3 Door Model



I5JB0A9C0013-01

"A": Apply undercoating (PVC, 400 μm or more).	"C": Do not apply undercoating.
"B": Apply black painting.	"D": Apply undercoating (PVC, 400 μm or more) covering flange end.

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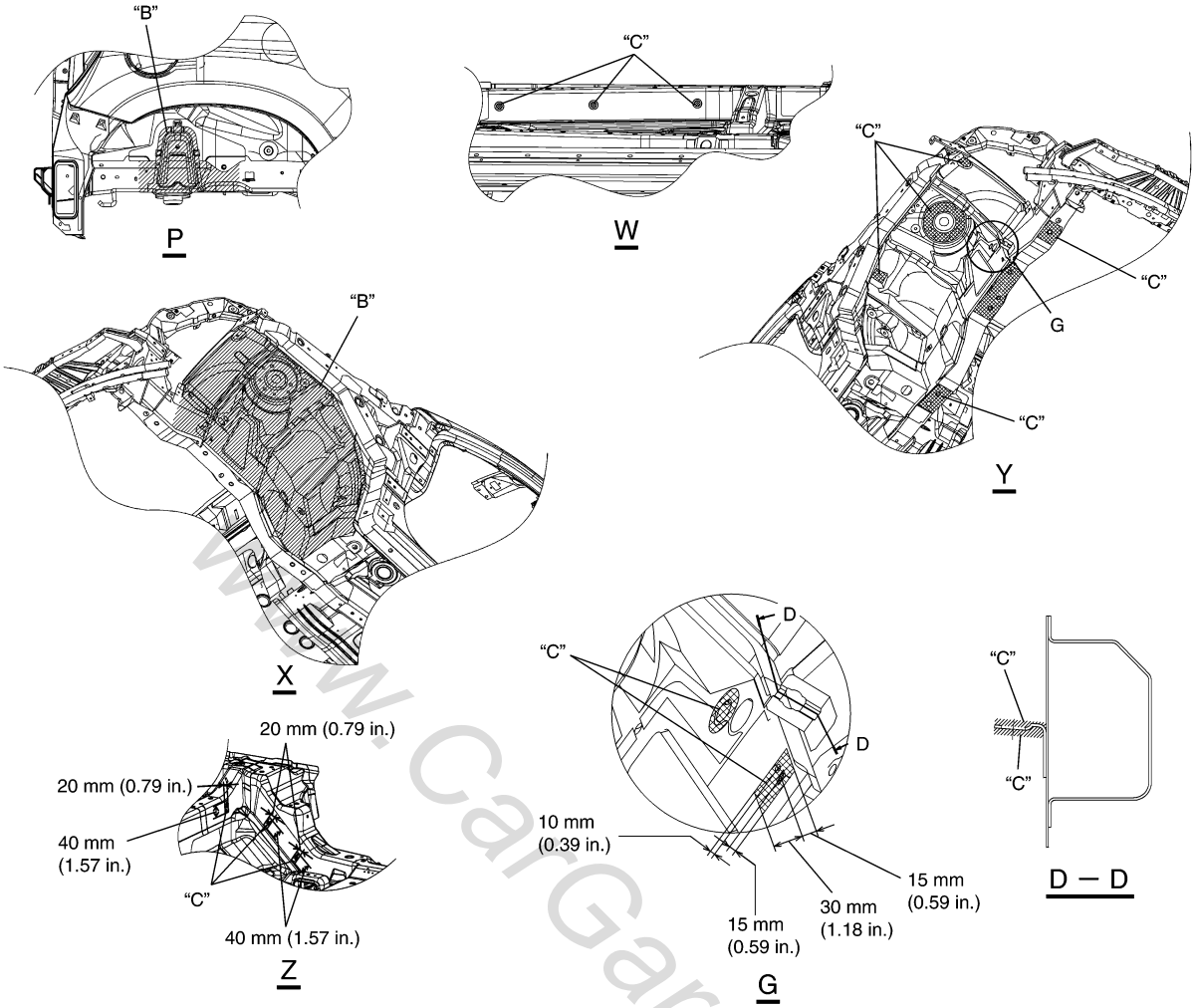

I5JB0A9C0014-01

"A": Apply undercoating (PVC, 400 μm or more).	"C": Do not apply undercoating.
"B": Apply black painting.	

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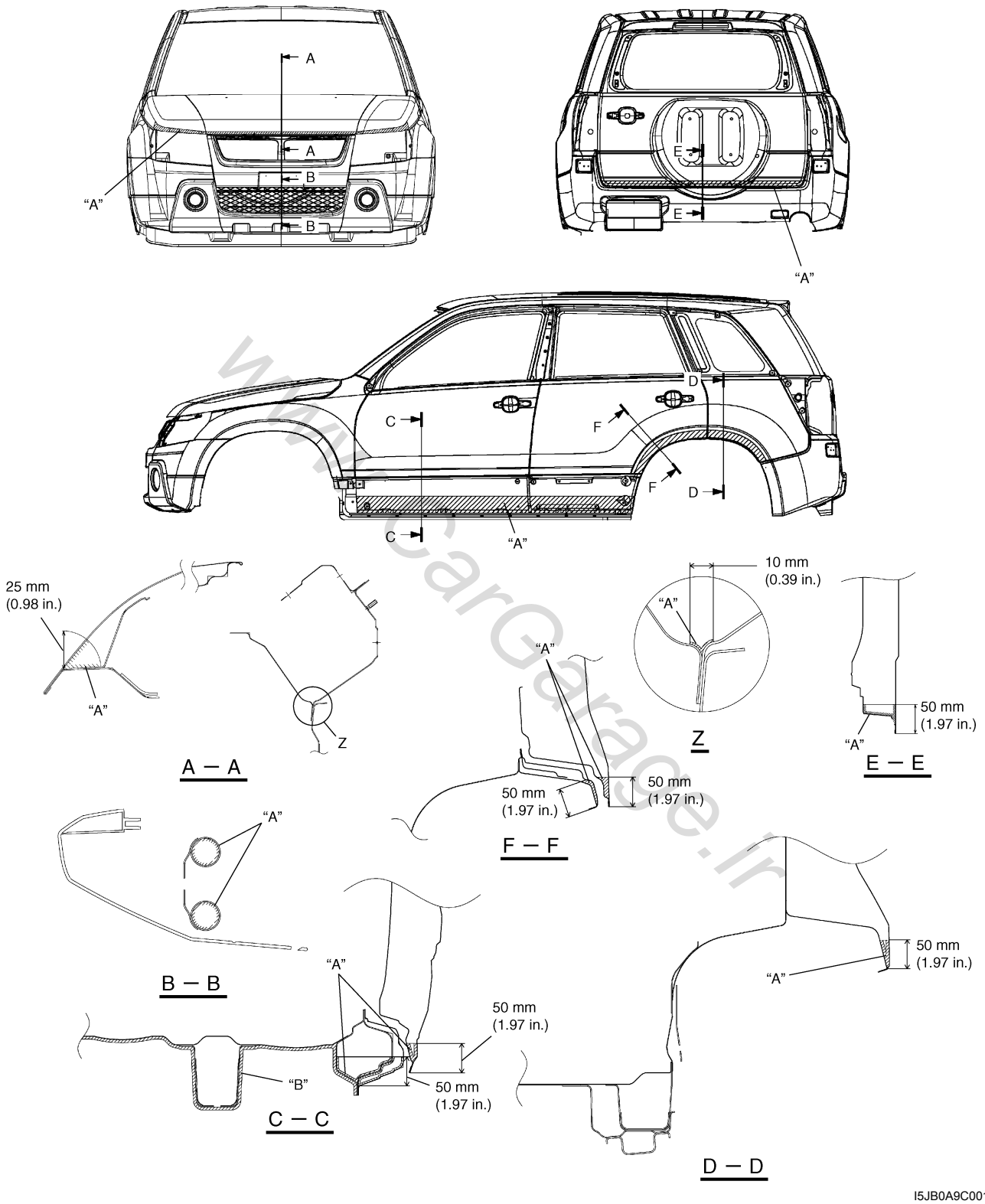
Anti-Corrosion Compound Application Area

S5JB0A9C03003

5 Door Model



I5JB0A9C0015-01

"A":	Apply rust proof wax (hot wax 50 μm or more).
"B":	Apply rust proof wax (high viscosity wax 50 μm or more).

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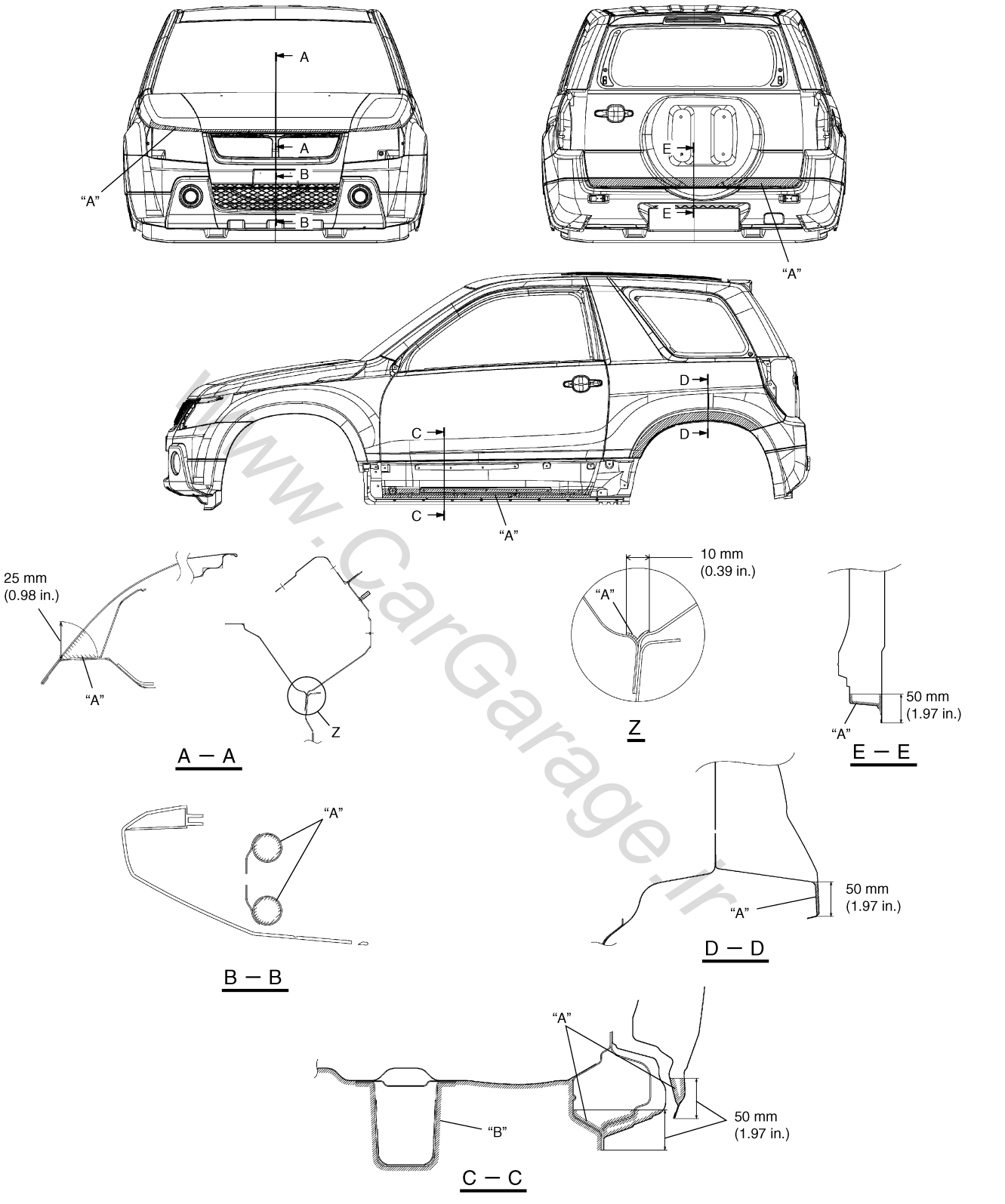
3 Door Model



I5JB0A9C0016-01

"A":	Apply rust proof wax (hot wax 50 μm or more).
"B":	Apply rust proof wax (high viscosity wax 50 μm or more).

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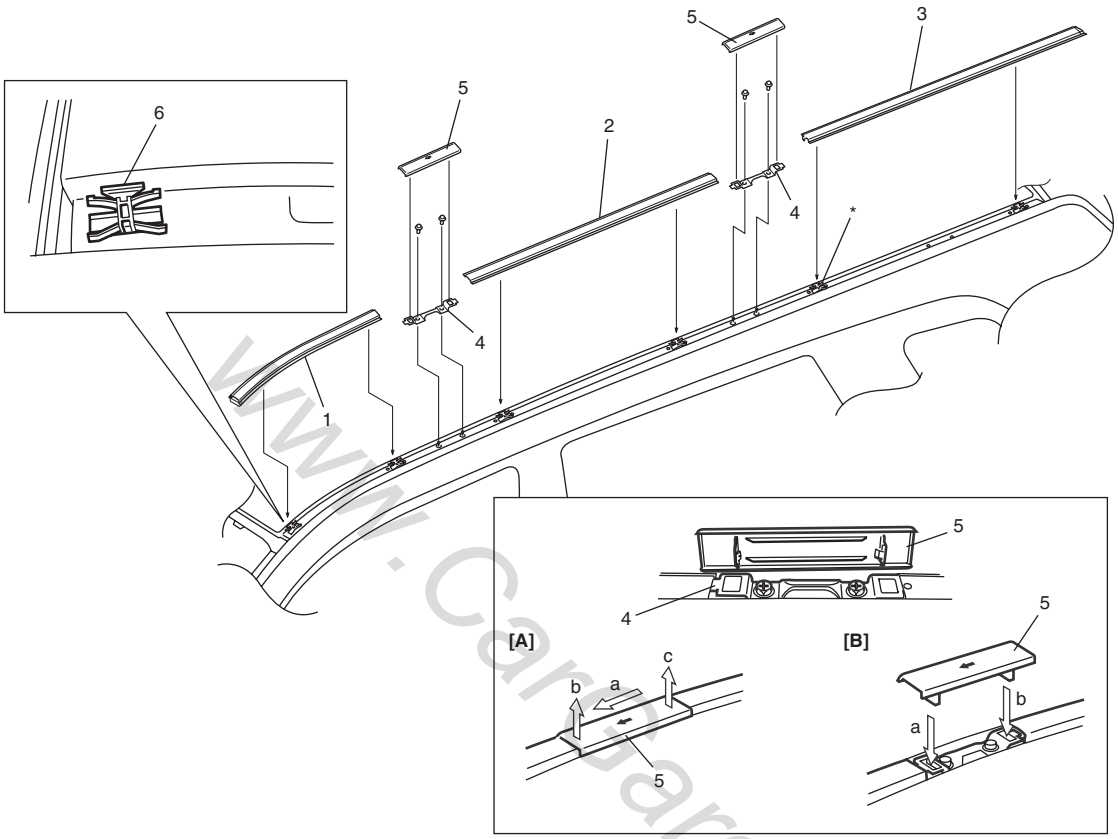
Exterior Trim

Repair Instructions

Roof Drip Molding Removal and Installation (If Equipped)

S5JB0A9D06005



I5JB0A9D0001-02

[A]: Molding Cap Removal Remove cap by pushing in arrow direction shown on cap and then pulling in alphabetical order indicated in figure.	4. Roof carrier bracket
[B]: Molding Cap Installation Be sure to direct arrow mark of left side molding cap to vehicle forward and arrow mark of right side molding cap to vehicle rearward.	5. Roof drip molding cap
1. Roof drip front molding	6. Roof drip molding clip (Push-in type)
2. Roof drip center molding	*: 5 door model only
3. Roof drip rear molding	

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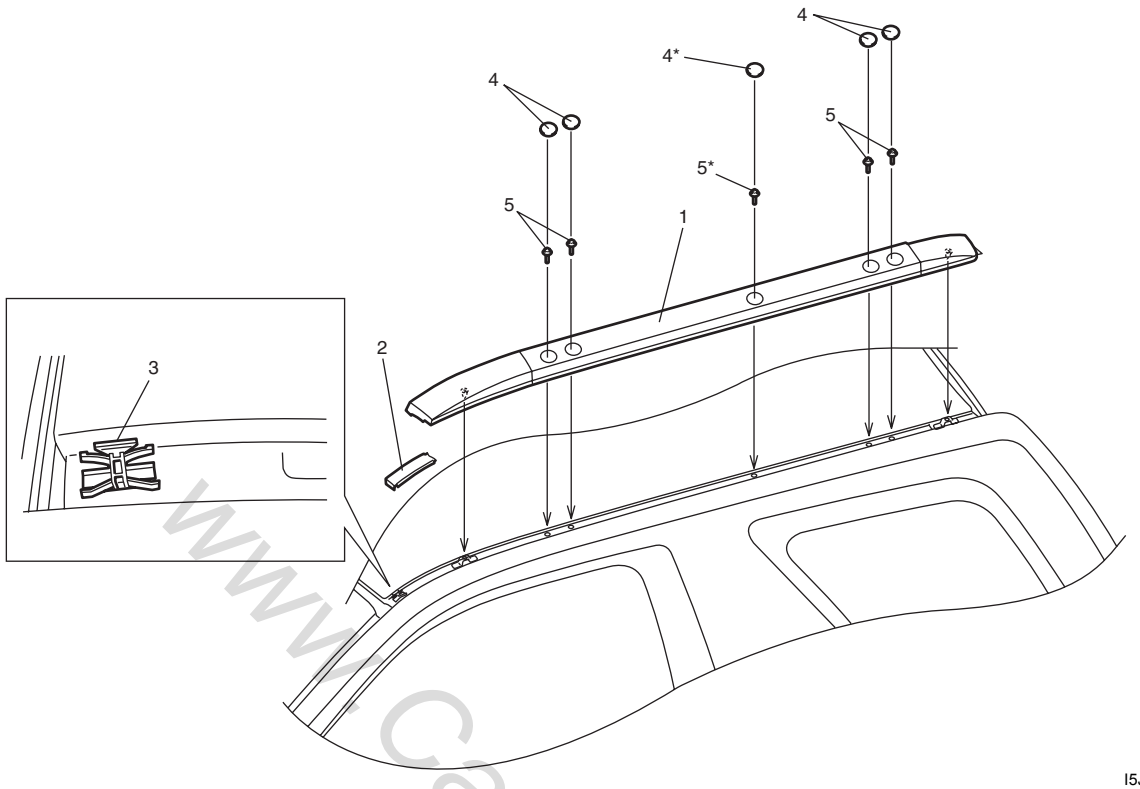
Roof Rail Removal and Installation (If Equipped)

S5JB0A9D06007



I5JB0A9D0002-03

1. Roof rail	3. Roof drip molding clip (Push-in type)	5. Roof rail bolt
2. Roof drip front molding	4. Roof rail cap	*: 5 door model only

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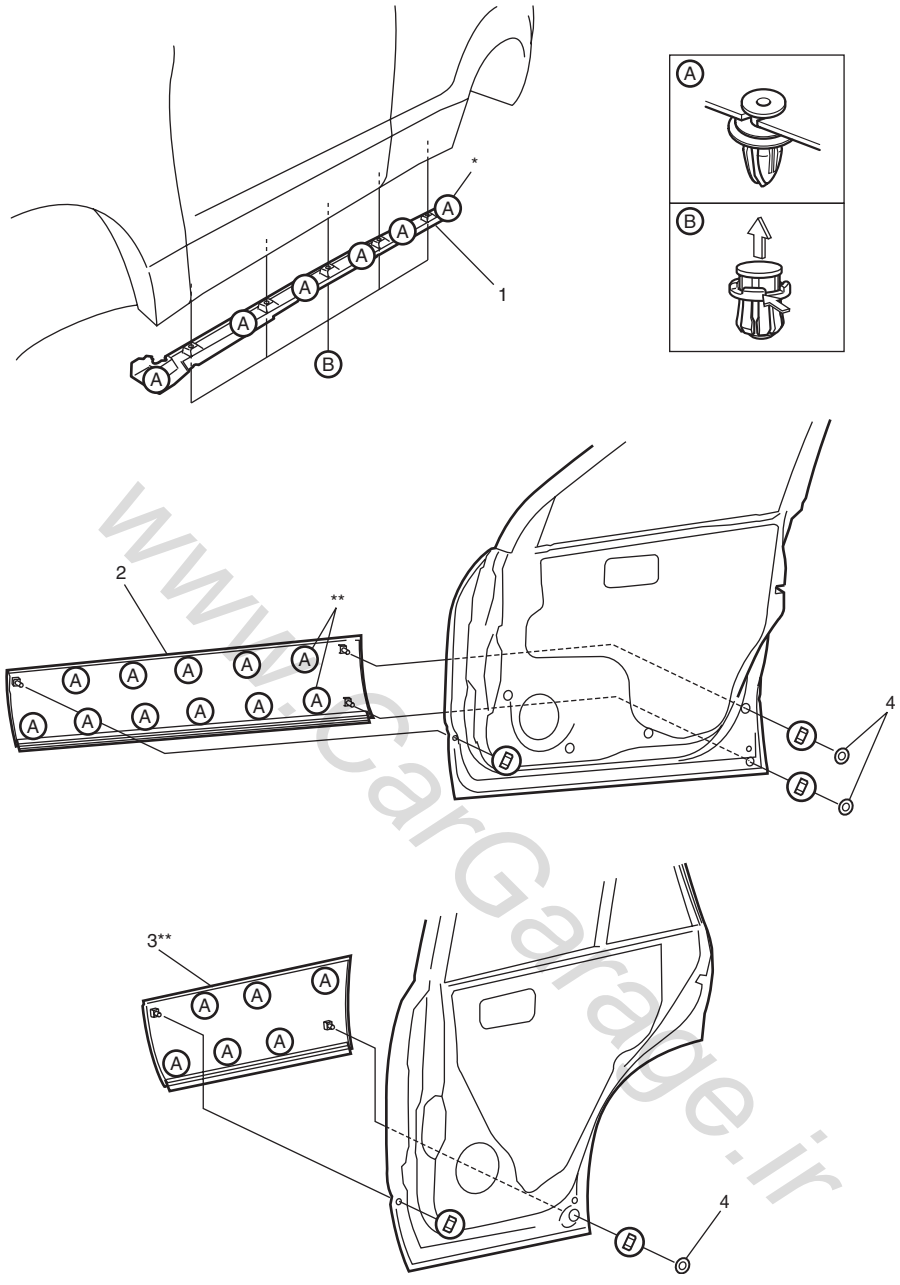
Splash Guard Removal and Installation (If Equipped)

S5JB0A9D06006



I5JB0A9D0003-02

1. Side sill splash guard	3. Rear door splash guard	*: 3 door model only
2. Front door splash guard	4. Cap	**: 5 door model only

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