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SUZUKI MOTOR CORPORATION

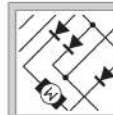
SUZUKI
XL-7

WIRING DIAGRAM MANUAL
99512-52D20-015

®



GRAND
VITARA
XL-7



WIRING DIAGRAM MANUAL
HANDBUCH FÜR VERKABELUNG
MANUEL DES SCHEMAS DE CABLAGE
MANUAL DE DIAGRAMA DE CONEXIONES

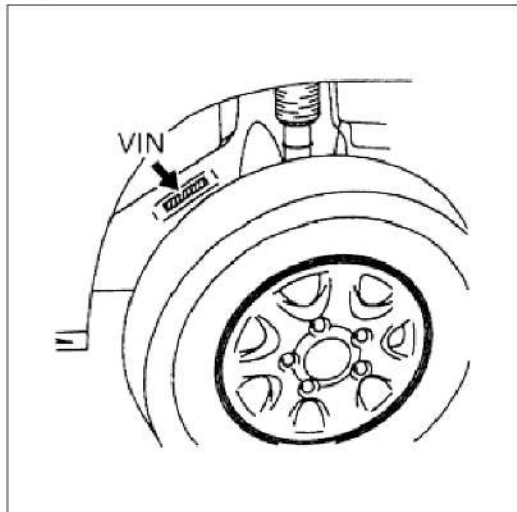
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Caring for Customers
99512-52D20-015
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Foreword

This manual contains SECTION 8A "Wiring Diagram" which is a part of the ELECTRICAL SYSTEM section of the service manual.

Applicable model:



GRAND VITARA XL-7
JSAHTX92V## 200001~
JS3TX92V ## 200001~

All information, illustrations and specifications contained in this literature are based on the latest product information available at the time of publication approval. The descriptions in this manual are based on standard or base model specifications. Therefore, please note that the actual vehicle being serviced may differ from the manual. SUZUKI MOTOR CORPORATION reserves the right to make changes at any time without notice.

Please note that this manual contains references to equipment that may not be marketed in all countries.

For inspection and service work, refer to the service manual(s) listed below.

NOTE:

This manual shows the circuits for all the possible variations in production specifications. However, depending on the specifications of the vehicle you are handling, its wiring harness may not include some of the circuits or wiring shown in this manual.

Related Manual

Manual Name	Part Number
GRAND VITARA XL-7 Supplementary Service Manual	99501-52D20-01#
GRAND VITARA XL-7 Supplementary Service Manual	99501-52D10-01#
GRAND VITARA Service Manual	99500-65D20-01#

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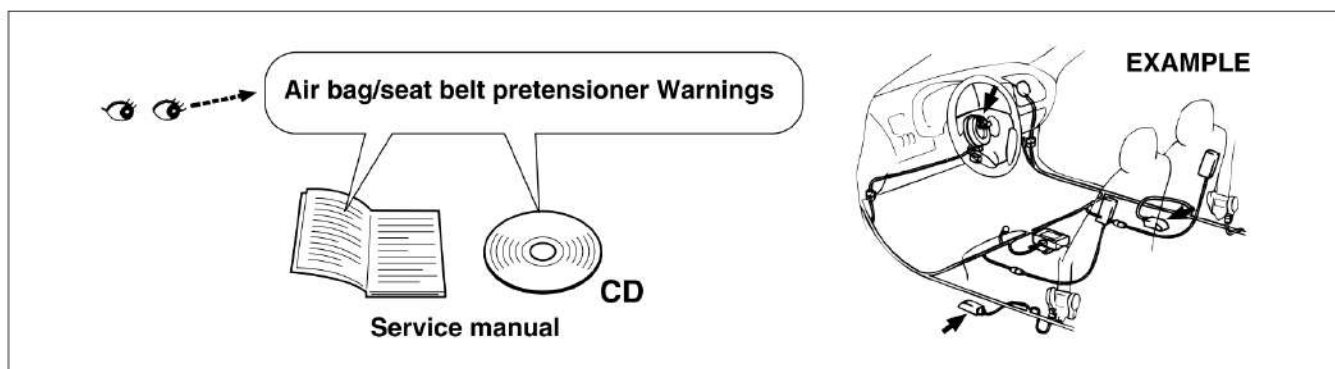
8A-5

8A-6

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8A-8

Precautions



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 in the service manual and disable the systems before servicing on or around the components and the wiring of the systems. The service manual(s) is (are) mentioned in the FOREWORD of this manual. 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:

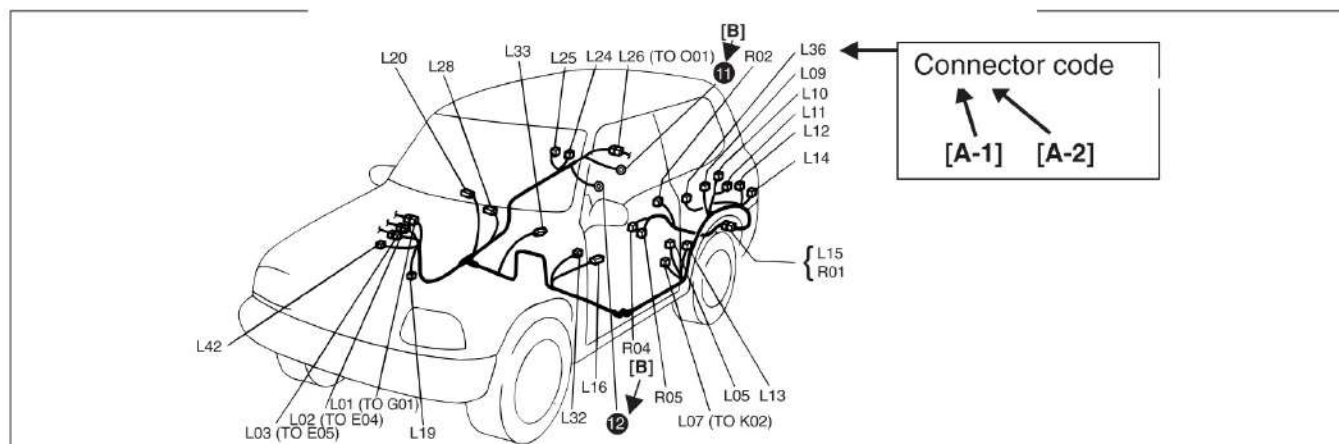
To prevent damage to the electrical/ electronic parts (especially computers or semi-conductors) or to prevent fire.

- 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.
- For open back connectors, be sure to insert the tester probe into the back side (wiring harness side) of the connector for inspection. For sealed back connectors, apply the tester probe to the terminal as gently as possible not to damage or deform the terminal.

General information

Allgemeines Informationen

How to read connector layout diagram

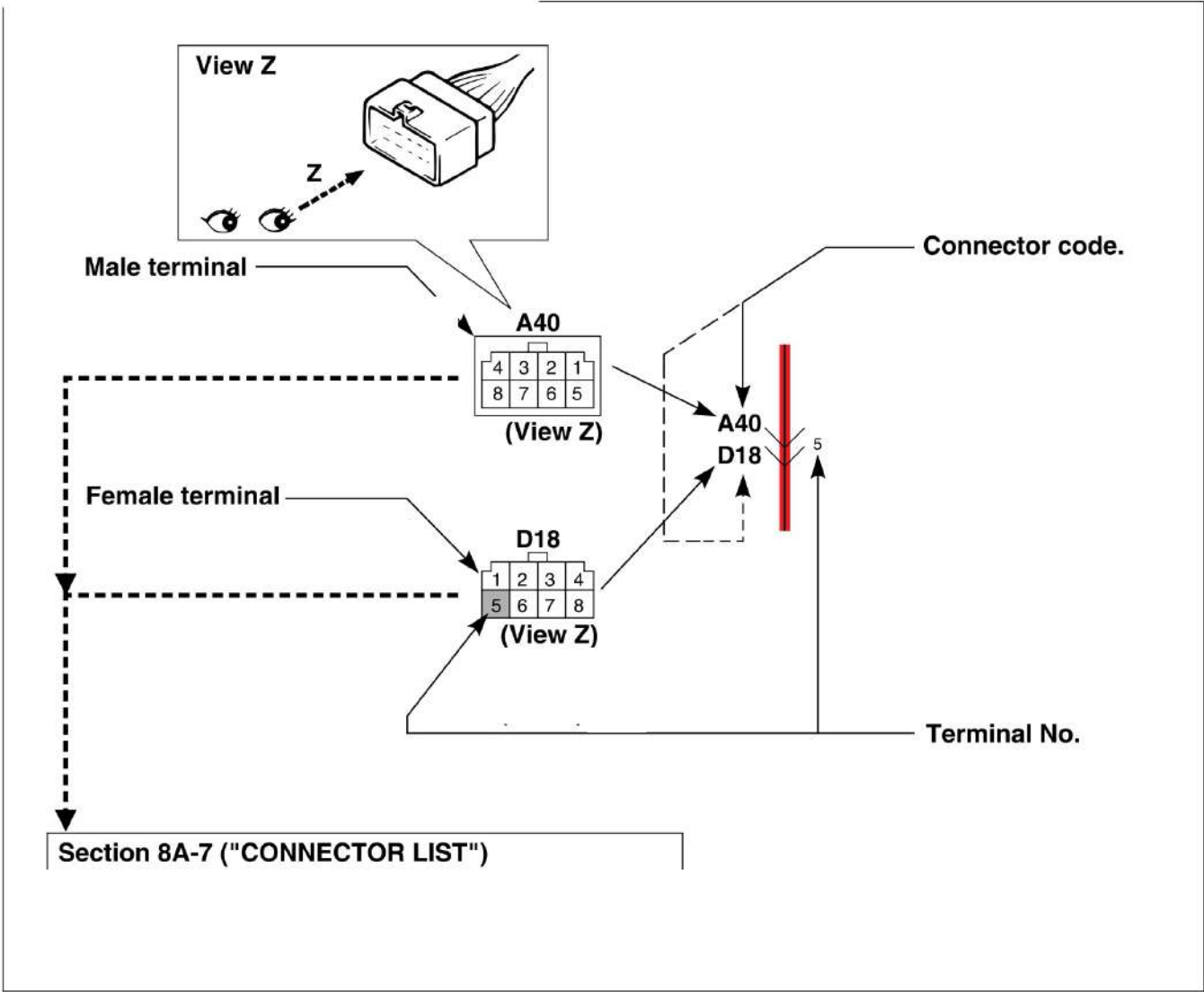


[A-1] Harness classification	
A	Battery harness
B	A/C harness
C	Engine harness
D	Injector harness
E	Main harness, Oil pressure switch wire, Console wire
G	Instrument panel harness
J	Side door wire (Power window)

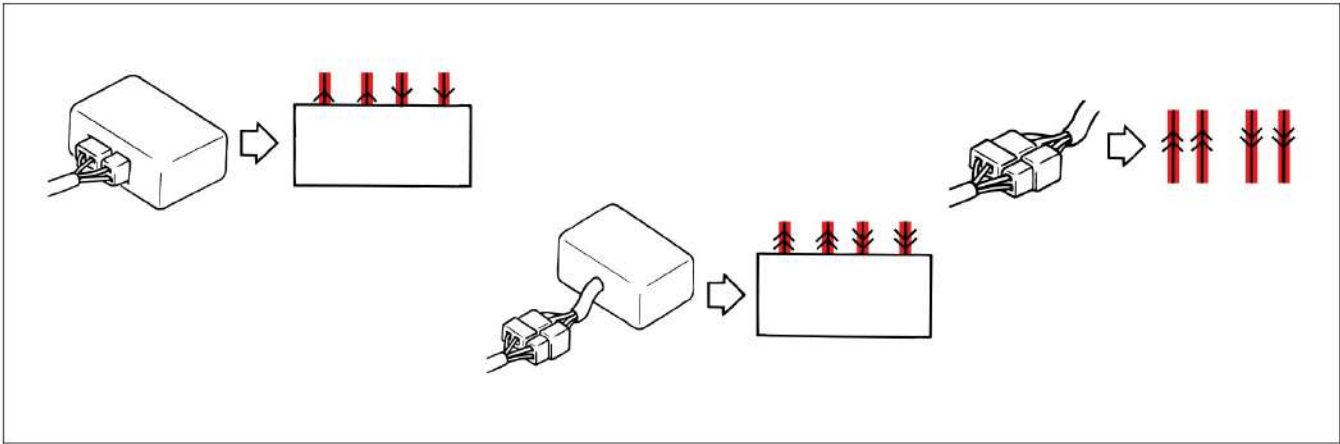
K	Interior light harness, Rear speaker wire, Roof wire
L	Floor harness, G sensor wire (Fuel pump harness)
M	Rear bumper harness
O	Rearend door harness
Q	Air bag/Pretensioner harness
R	(Fuel pump wire)
[A-2]	Connector Number
[B]	Ground (earth) point No.

How to read connector codes and terminal nos.

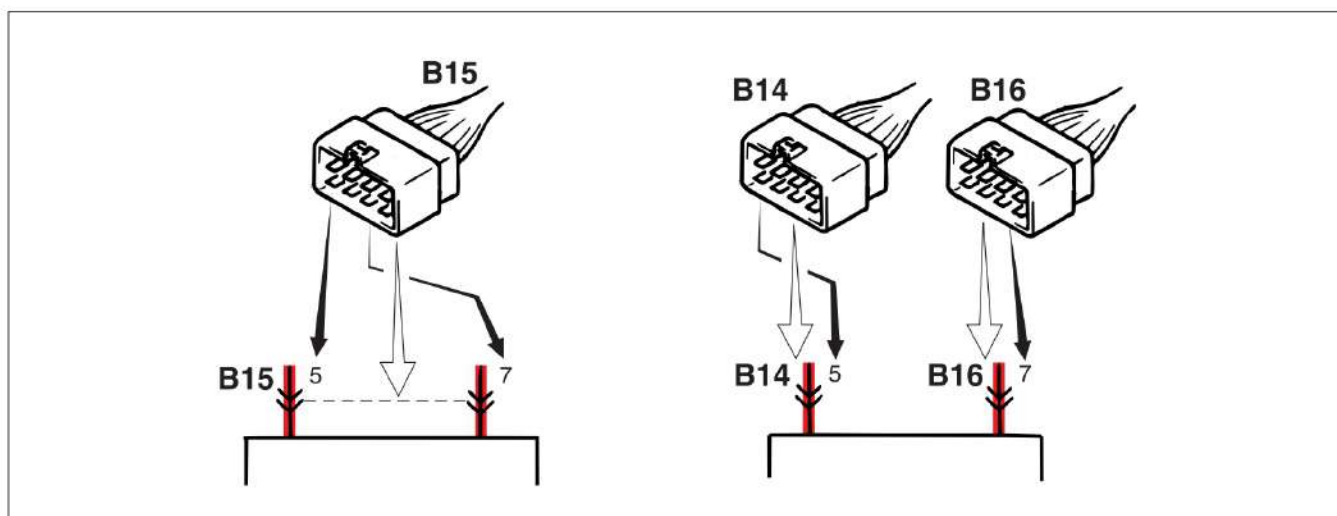
Connector code/Terminal No./Terminal layout



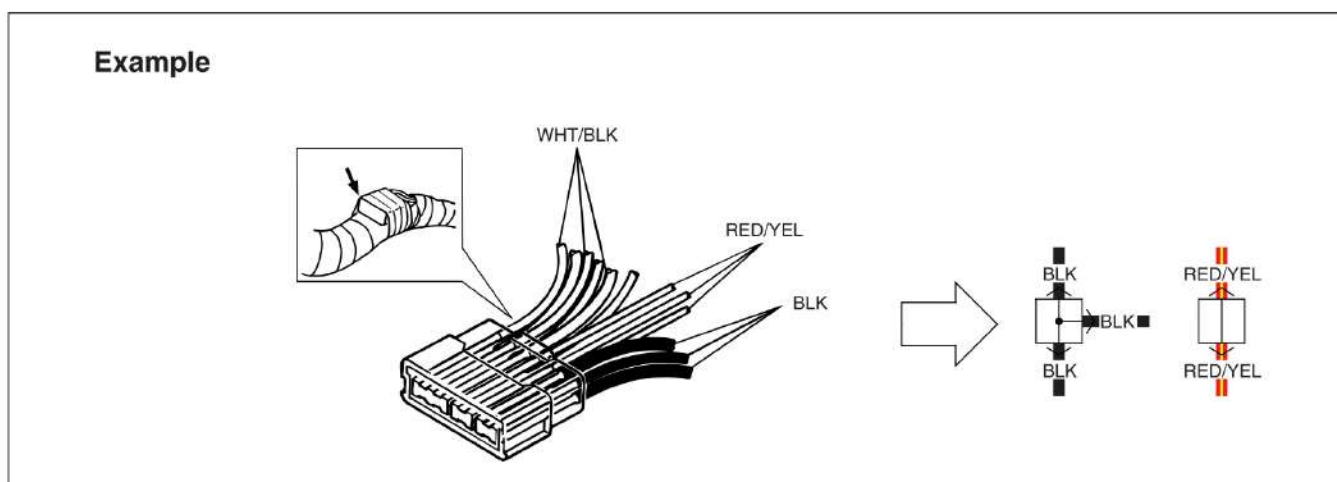
Connector type



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



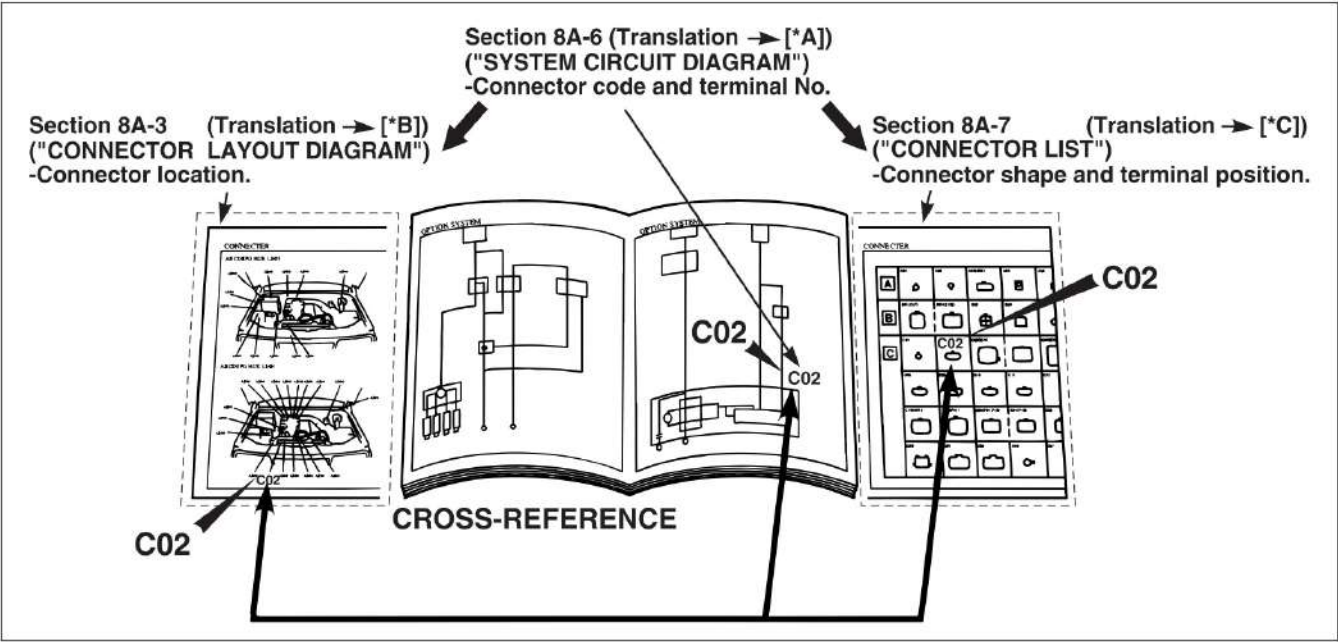
Joint connector (J/C)



NOTE:

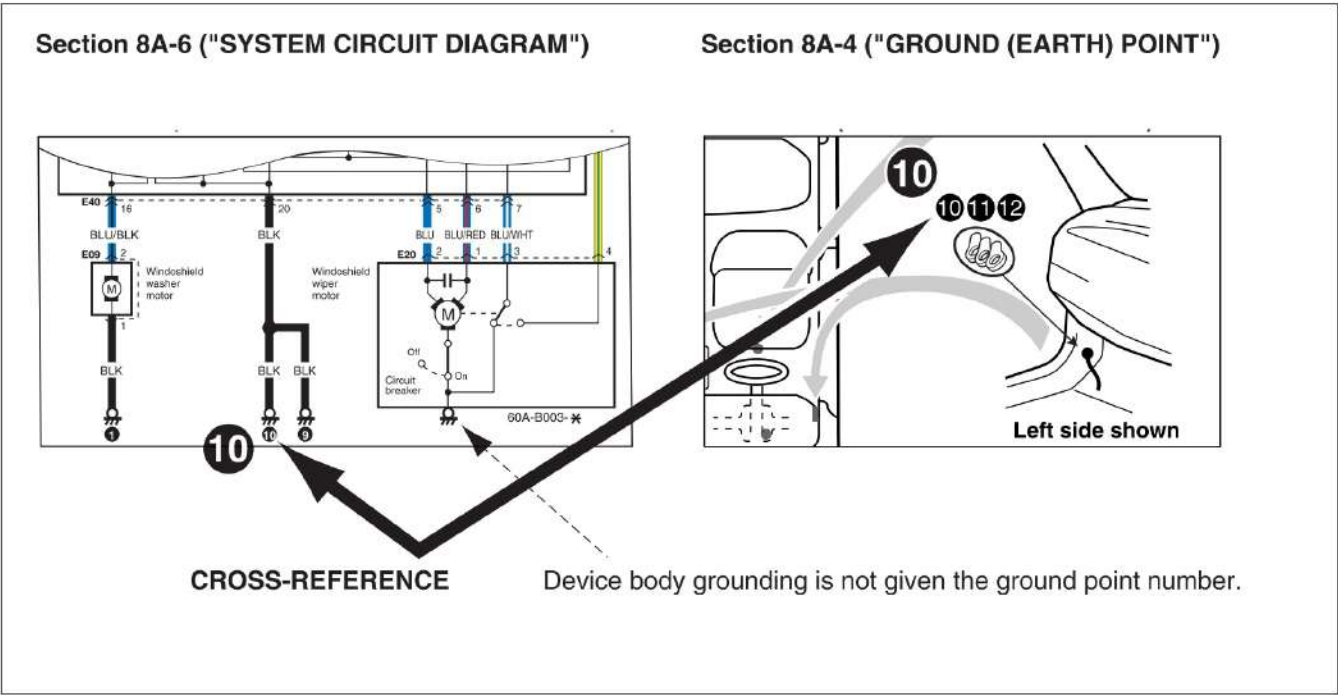
The joint connector (J/C) connects several different wires with the same wire color at one place instead of connecting them by welding or caulking one by one. It is not an ordinary connector but a part of the continuous wire in the harness.

Connector location, shape and terminal No.



*A	Abschnitt 8A-6 ("SYSTEMSCHALT-DIAGRAMM") -Steckercode und Klemmennummer.
*B	Abschnitt 8A-3 ("STECKER-LAYOUT-DIAGRAMM") -Position der Stecker.
*C	Abschnitt 8A-7 (Steckverbindungsliste) -Steckerform und Klemmenanordnung.

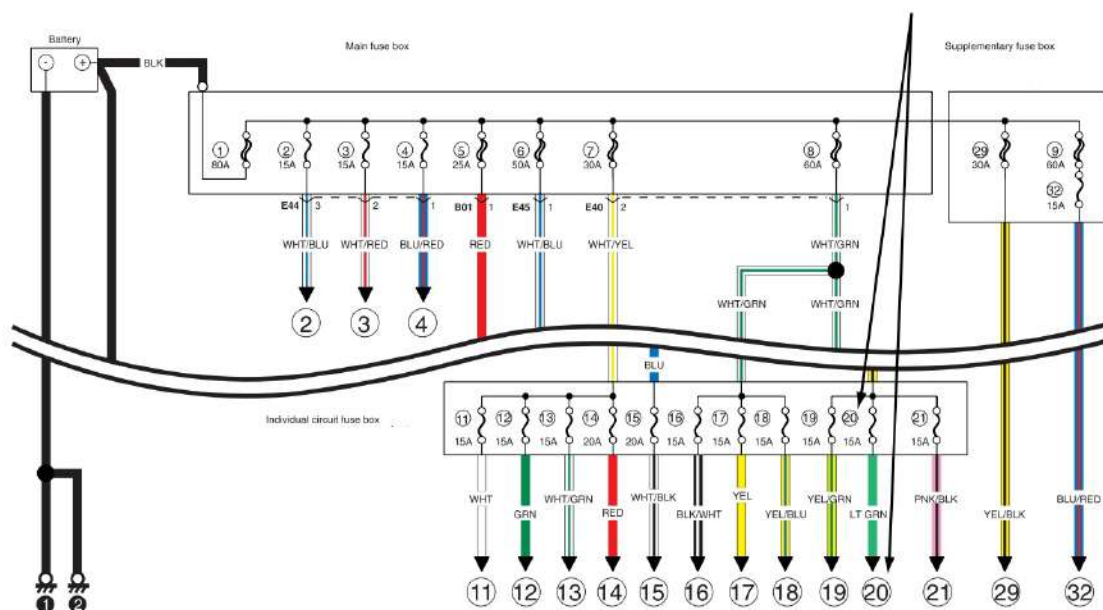
How to read ground (Earth) point



How to read power supply diagram

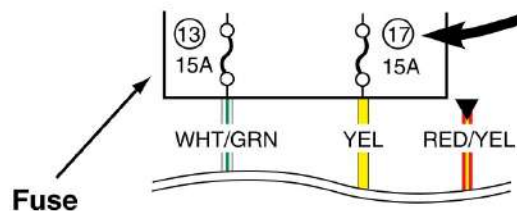
Section 8A-5 ("POWER SUPPLY DIAGRAM")

Fuse number



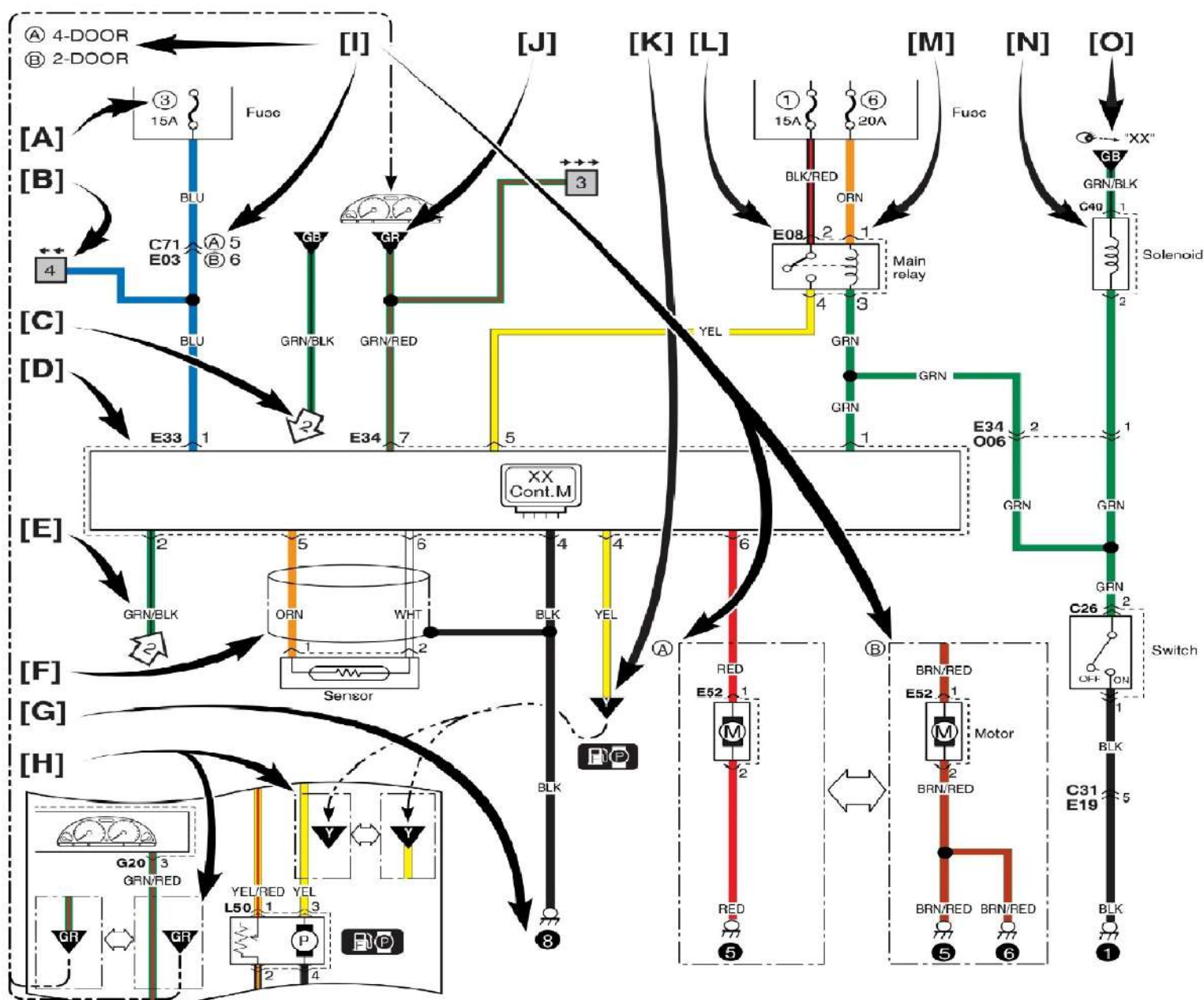
Connection to the system indicated.

Section 8A-6 ("SYSTEM CIRCUIT DIAGRAM")



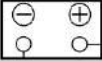






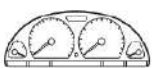

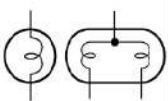


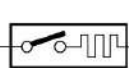




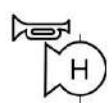














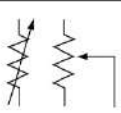




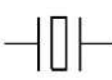






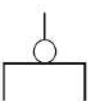
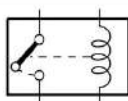


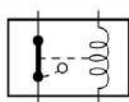











How to read system circuit diagram

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



[A] Fuse No.	[D] Terminals-in-one-connector mark	[H] "From" or "To"	[L] Connector code
[B] Circuit jumping page / direction	[E] Wire color	[I] Specification variation	[M] Terminal No.
[C] Circuit jumping point / direction	[F] Shield wire	[J] "From"(With ID letter(s))	[N] Symbol mark
	[G] Ground (earth) point	[K] "To"(With ID letter(s))	[O] "SEE" mark
<p>[B] Circuit jumping page / direction 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.</p>			
<p>[C] Circuit jumping point / direction 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.</p>			
<p>[I] The white arrow between A and B means "or".</p>			

Symbols and marks

	Battery		Ground (Earth)		Ignition switch		Keyless entry
	fuse		Coil, Solenoid		Immobilizer system		Combination meter
	Heater		Bulb		Lighting switch		Headlight leveling
	Cigarette lighter		Motor		Hazard warning light		Front fog light
	Pump		Horn		Rear fog light		Spark plug
	Speaker		Buzzer		Radiator fan		Fuel pump
	Condenser		Thermistor		Injector		XX control module
	Reed switch		Resistance		Windshield wiper		Windshield washer
	Variable resistance		Transistor		Rear wiper		Rear washer
	Diode		Piezoelectric element		Rear defogger		Power window
	Harness (Connected)		Harness (Not connected)		Power door lock		Power mirror
	Ring terminal		Relay (Normal open)		A/B		Pretensioner
	Relais (Normal closed)		Relais (Ordinaire ouvert)		Passenger side		Driver side
	Closed switch		LED		Seat heater		A/C
	Side air-bag (R)		Side air-bag (L)		Power steering		Glow plug

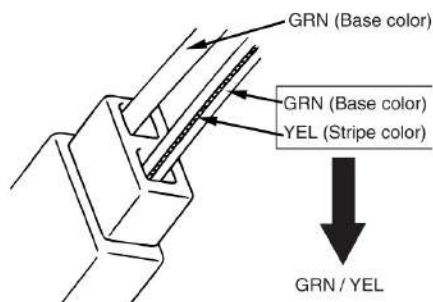
Abbreviations

Abbreviation	Full term
2WD	2 wheel drive vehicles
4WD	4 wheel drive vehicles
A/B	Air bag
A/C	Air conditioning
A/T	Automatic transaxle
ACC	Accessory
BCM	Body electric control module
CAN	Controller area network
CKP	Crank shaft position
CMP	Cam shaft position
COMB	Combination
DLC	Data link connector
DRL	Daytime running light
DSL	Diesel engine
ECM	Engine control module
ECT	Engine coolant temperature
EGR	Exhaust gas recirculation
EVAP	Evaporative
FWD	Forward
HI	High
IAC	Idle air control
IAT	Intake air temperature
Imb CM	Immobilizer control module
IF EQPD	If equipped
IG	Ignition
IG COIL	Ignition coil
ILL	Illumination
IND	Indicator
INT	Intermittent
ISC	Idle speed control

J/B	Junction fuse block
J/C	Joint connector
L	Left
LED	Light emitting diode
LHD	Left hand drive vehicle
LO	Low
MAP	Manifold absolute pressure
M/T	Manual transaxle
O/D	Over drive
P/N	Power/Normal
P/S	Power steering
PSP	Power steering pressure
R	Right
RHD	Right hand drive vehicle
SDM	Sensing and diagnostic module
ST	Starter
TCC	Torque converter clutch
TCM	Transmission control module
VSS	Vehicle speed sensor
VSV	Vacuum switching valve

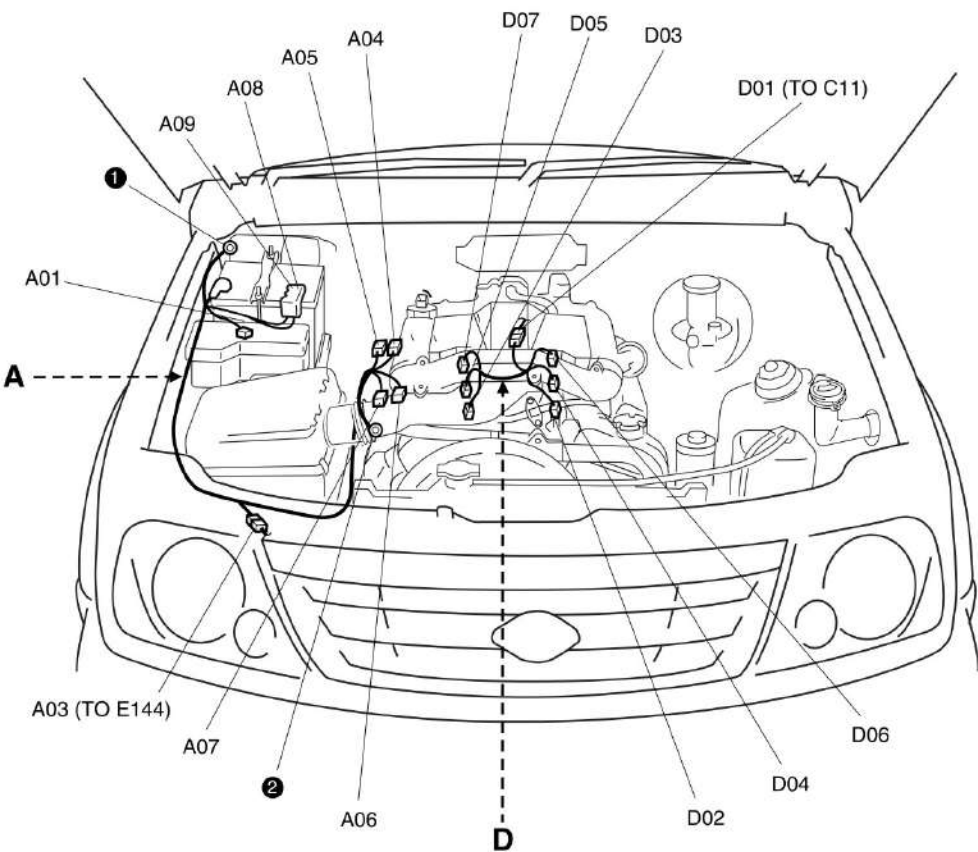
Wire / connector color symbols

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



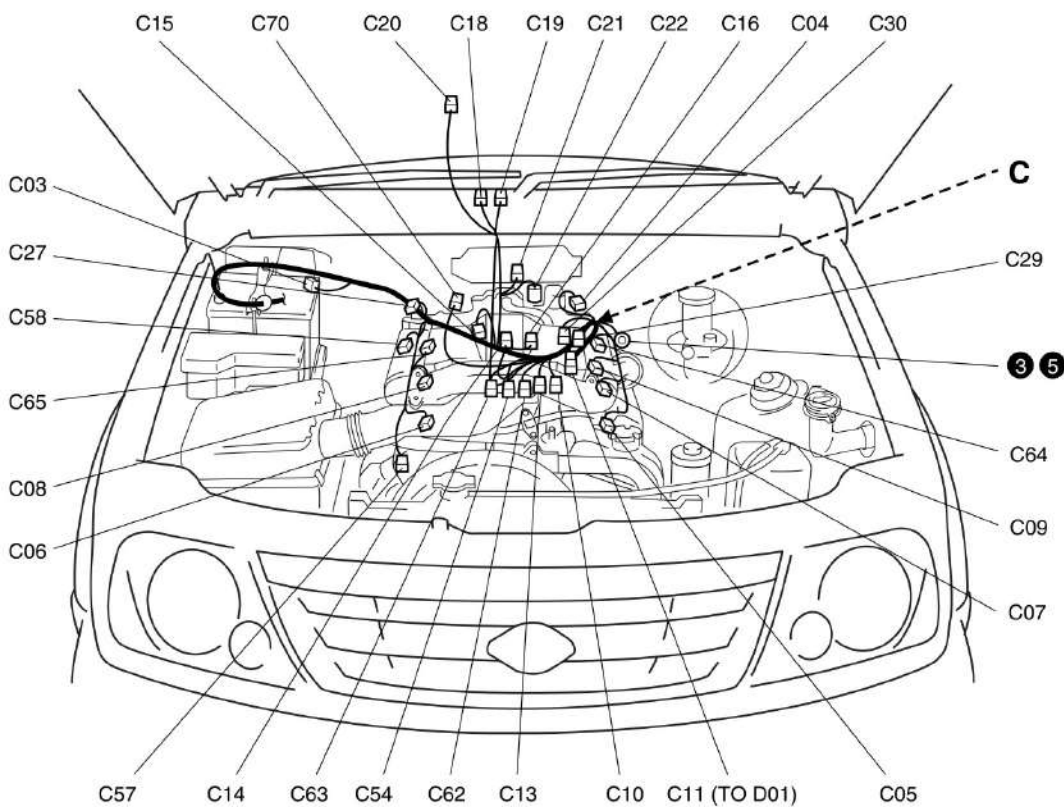
D:Injector harness

8A-3

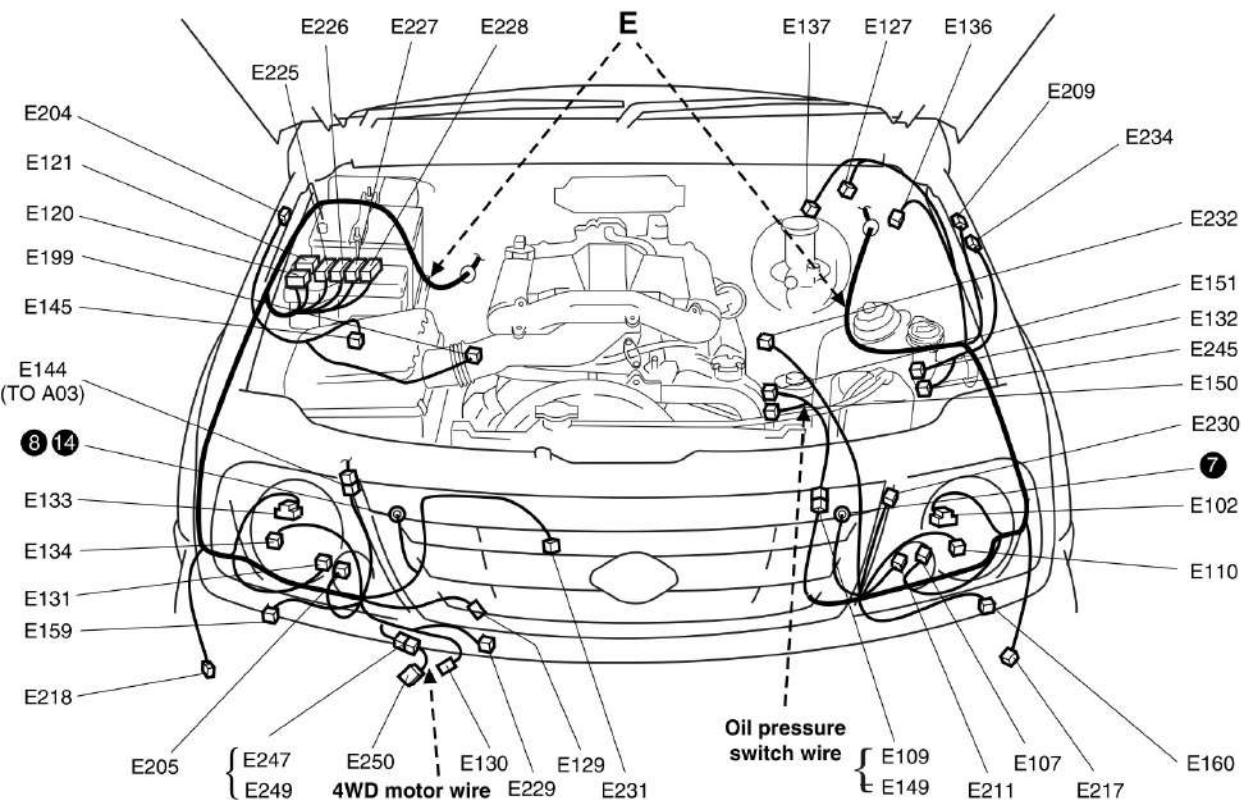


No./Color	Connective position
	Battery cable
A01/BLK	Main fuse
A03/GRY	Main harness (To E144)
A04/N	Starting motor
A05/N	Starting motor
A06/GRY	Generator
A07/N	Generator (BATT)
A08/-	Battery
A09/-	Battery
	Injector harness
D01/BLK	Engine harness (To C11)
D02/GRY	Injector #1
D03/GRY	Injector #2
D04/GRY	Injector #3
D05/GRY	Injector #4
D06/GRY	Injector #5
D07/GRY	Injector #6

C:Engine harness



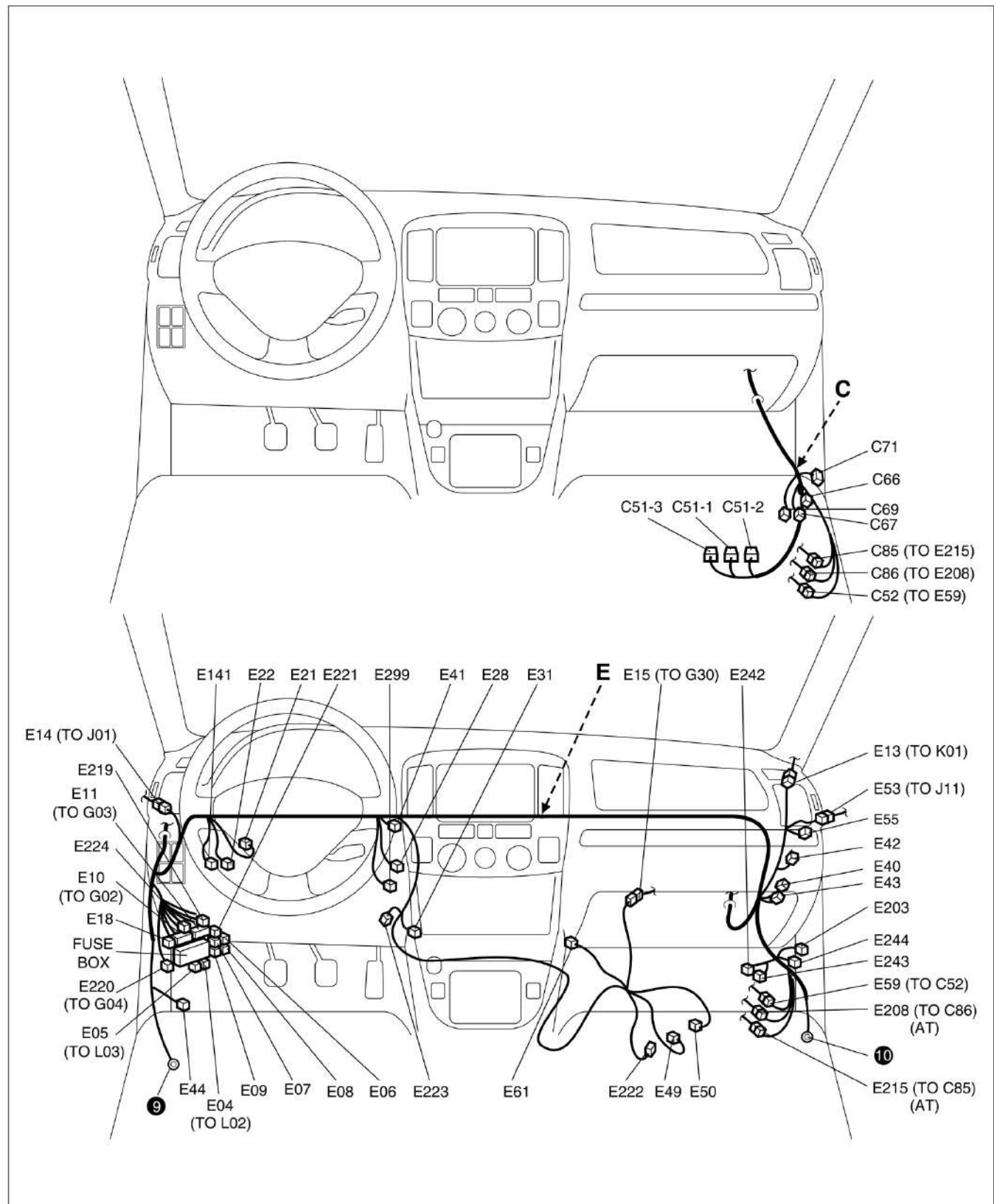
No./Color	Connective position
	Engine harness
C03/BLK	Noise suppressor
C04/GRY	EGR stepper motor
C05/GRY	IG COIL #1
C06/GRY	IG COIL #2
C07/GRY	IG COIL #3
C08/GRY	IG COIL #4
C09/GRY	CMP sensor
C10/GRY	ECT sensor
C11/BLK	Injector harness (To D01)
C13/GRN	Heated oxygen sensor #1
C14/N	Back-up light switch
C15/GRY	Transmission range sensor
C16/BLU	Input sensor
C18/N	4WD switch
C19/BLK	4WD L switch
C20/BLK	Vehicle speed sensor
C21/BLU	Output shaft speed sensor
C22/GRY	Shift solenoid
C27/BLU	EVAP canister purge valve
C29/BLK	IAC valve
C30/BLK	Throttle position sensor
C54/GRN or BLU	Heated oxygen sensor #2
C57/GRY	CKP sensor
C58/BLK	MAP sensor
C62/BLK or GRY	Heated oxygen sensor #3
C63/BLK	Heated oxygen sensor #4
C64/GRY	IG COIL #5
C65/GRY	IG COIL #6
C70/GRY	Knock sensor



No./Color	Connective position
	Main harness
E102/BLK	Headlight (L)
E107/N	Front wheel speed sensor (L)
E109/N	Oil pressure switch wire (To E149)
E110/N	Front turn signal & clearance light (L)
E120/N	Main fuse
E121/BLK	Main fuse
E127/N	Wiper motor
E129/BLK	Horn (HI)
E130/BLK	Horn (LO)
E131/BLK	Front wheel speed sensor (R)
E132/BLK	Cruise actuator with control module
E133/BLK	Headlight (R)
E134/N	Front turn signal & clearance light (R)
E136/BLK	ABS control module
E137/GRY	Brake fluid level switch
E144/BLK	Battery cable (To A03)
E145/BLK	IAT sensor
E159/YEL	Forward sensor (R)
E160/YEL	Forward sensor (L)

E199/GRY	Air flow meter
E204/N	Side turn signal light (R)
E205/GRY	Headlight beam leveling actuator (R)
E209/N	Side turn signal light (L)
E211/GRY	Headlight beam leveling actuator (L)
E217/N	Fog light (L)
E218/N	Fog light (R)
E225/BLK	Condenser fan and compressor relay
E226/BRN	Condenser fan high relay #1 and 2
E227/GRN	Shift lock relay and fog relay

No./Color	Connective position
	Main harness
E228/BLU	O ₂ heater relay and horn relay
E229/BLK	Ambient temperature sensor
E230/N	Triple cut switch
E231/GRY	Condenser fan motor
E232/BLK	Compressor
E234/BLK	Front and rear washer motor
E245/BRN	Variable inhalation valve
E247/GRY	4WD motor wire (To E249)
	Oil pressure switch wire
E149/N	Main harness (To E109)
E150/N	P/S pump pressure switch
E151/N	Oil pressure switch
	4WD motor wire
E249/GRY	Main harness (To E247)
E250/N	Free axle motor

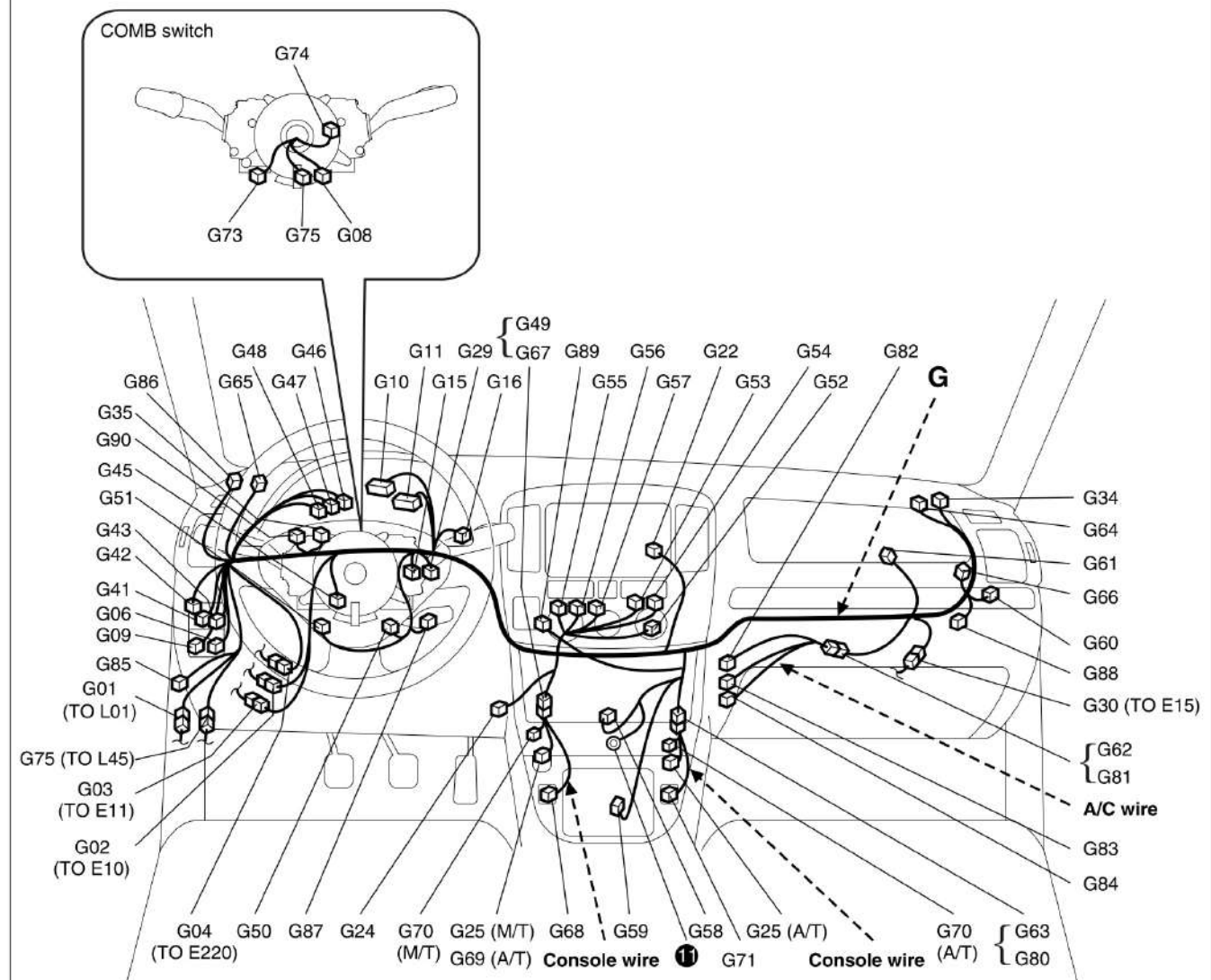
C:Engine harness**E:Main harness****LHD**

No./Color	Connective position
	Engine harness
C51-1/GRY	ECM/PCM
C51-2/GRY	ECM/PCM
C51-3/GRY	ECM/PCM
C52/N	Main harness (To E59)
C66/-	J/C
C67/-	J/C
C68/-	J/C
C69/-	J/C
C85/BLK (A/T)	Main harness (To E215)
C86/BLK (A/T)	Main harness (To E208)
	Main harness
E04/BLU	Floor harness (To L02)
E05/N	Floor harness (To L03)
E06/BLK	Headlight relay No.2
E07/BLK	Headlight relay No.1
E08/BLK	ACC relay
E09/BLK	Rear defogger relay
E10/BLU	Instrument panel harness (To G02)
E11/GRY	Instrument panel harness (To G03)
E13/N	Roof wire (To K01)
E14/N	Door wire (To J01)
E15/BLK	Instrument panel harness (To G30)
E18/GRY	Main switch (Key switch)
E21/N	Brake light switch
E22/N	Brake light switch
E28/BLK	ABS diagnosis connector
E31/BLK (LHD)	Mode actuator
E32/BLK (RHD)	Temp actuator
E40/-	J/C
E41/-	J/C
E42/-	J/C

No./Color	Connective position
	Main harness
E43/-	J/C
E44/-	J/C
E49/N	(Front) Blower motor relay
E50/N	(Front) Blower motor
E53/N	Door wire (To J11)
E55/N	Diode #1
E59/N	Engine harness (To C52)
E61/GRY	ECM/PCM
E141/BLK	Clutch switch
E203/N	CO adjusting resistor
E208/BLK (A/T)	Engine harness (To C86)
E215/BLK (A/T)	Engine harness (To C85)
E219/BLK	Rear blower motor relay
E220/YEL	Instrument panel harness (to G04)
E221/BLK	Main relay and Fuel pump relay
E222/N	Fan driver
E223/BLK	Diode (A/C)
E224/BLK	Turn signal relay
E239/BLK	Front door wire (To J43)
E240/N	Front door wire (To J44)
E241/BLK	Front door wire (To J45)
E242/GRY	TCM
E243/GRY	TCM
E244/BLU	CAN J/C
E299/N	Diagnosis connector

G: Instrument panel harness, Console wire, A/C harness

LHD

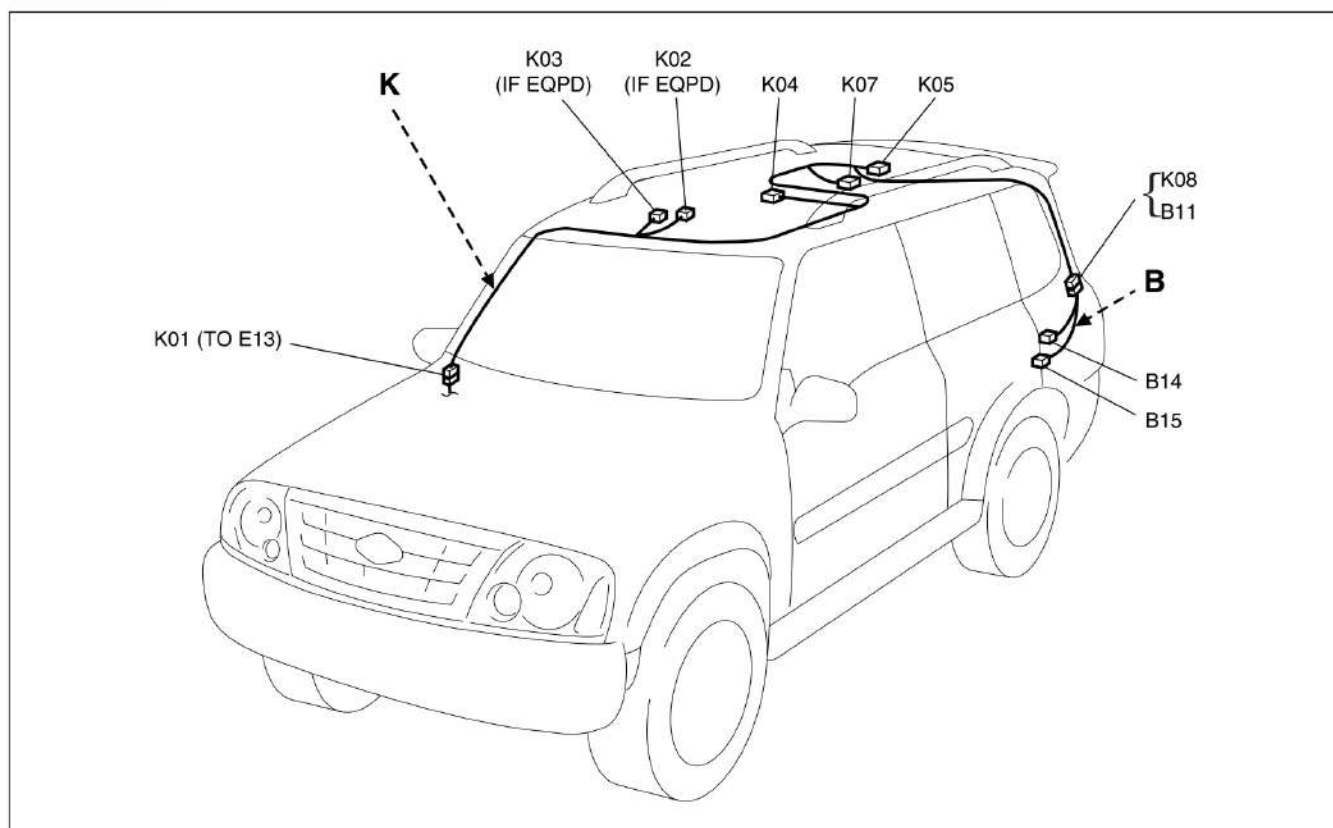


No./Color	Connective position	No./Color	Connective position	No./Color	Connective position
	Instrument panel harness		Instrument panel harness		Console wire (Passenger side)
G01/N	Floor harness (To L01)	G55/GRY	BCM #3	G70/GRY (A/T)	Cigar lighter ILL
G02/GRY	Main harness (To E10)	G56/N	BCM #4	G71/BLK	Seat heater switch (Passenger side)
G03/N	Main harness (To E12)	G57/N	BCM #5	G80/ORN (M/T)	Instrument panel harness (To G63)
G04/YEL	Main harness (To E220)	G58/N	A/B SDM	G80/BLU (A/T)	Instrument panel harness (To G63)
G06/BRN	Rear fog switch	G59/N	Shift lock solenoid, O/D cut switch, shift illumination		A/C harness
G09/N	Illumination controller	G60/N	BCM diagnosis connector	G81/N	Instrument panel harness (To G62)
G10/GRY	Combination meter	G61/YEL	Passenger inflator	G82/N	Fan actuator
G11/BLU	Combination meter	G62/N	A/C harness (To G81)	G83/BLK (LHD)	Temp actuator
G15/-	J/C	G63/BLU	Console wire (To G80)	G84/N	A/C thermistor
G16/-	J/C	G64/BLK	Tweeter (R)	G94/BLK (RHD)	Mode actuator
G22/N	Radio	G65/BLK	Tweeter (L)		
G24/BLK	Data link connector	G66/N	Option connector		
G29/-	J/C	G75/YEL	Floor harness (To L45)		
G30/N	Main harness (To E15)	G85/N	Air bag diagnosis connector		
G34/N	Auto light controller	G86/N	Sun light sensor		
G35/-	J/C	G87/N	ImbCM		
G41/BLK	Mirror heater switch	G88/N	Short connector (DRL)		
G42/YEL	Fog light switch	G89/N	Rear A/C fan main switch		
G43/GRY	Headlight leveling switch	G90/N	ILL J/C		
G45/GRN	Keyless entry controller	G91/N	Connector (To G92)		
G46/BLK	Combination switch (horn)	G92/N	Connector (To G91)		
G47/N	Audio and cruise control switch	G93/-	J/C		
G48/YEL	Combination switch		Console wire (Driver side)		
G49/BLU	Console wire (To G67)	G25/BLK (M/T)	Cigar lighter		
G50/N	Combination switch (Light)	G67/BLU (M/T)	Instrument panel harness (To G49)		
G51/BLK	Combination switch (Wiper)	G67/WHT (A/T)	Instrument panel harness (To G49)		
G52/N	Auto A/C controller	G68/BLK	Seat heater switch (Driver side)		
G53/BLU	BCM #1	G69/N (A/T)	Mode select switch		
G54/BLK	BCM #2	G70/GRY (M/T)	Cigar lighter ILL		
			Console wire (Passenger side)		
		G25/BLK (A/T)	Cigar lighter		

Roof

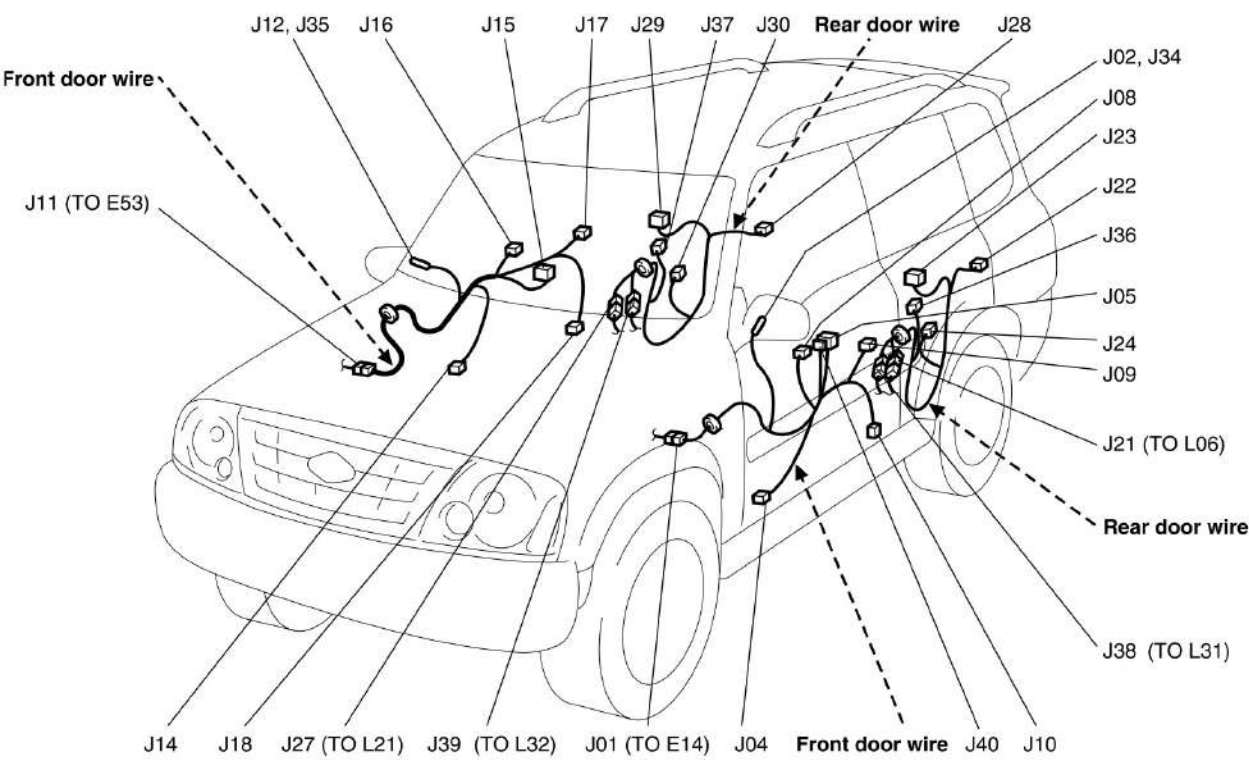
B:Rear A/C wire

K:Roof wire



No./Color	Connective position
	Rear A/C wire
B11/N	Roof wire (To K08)
B14/N	Rear blower motor
B15/N	Rear blower fan resistor
	Roof wire
K01/N	Main harness (To E13)
K02/N	Sunroof
K03/N	Spot light
K04/N	Interior light (Center)
K05/N	Interior light (Rear)
K07/N	Rear blower motor switch
K08/N	Rear A/C wire (To B11)

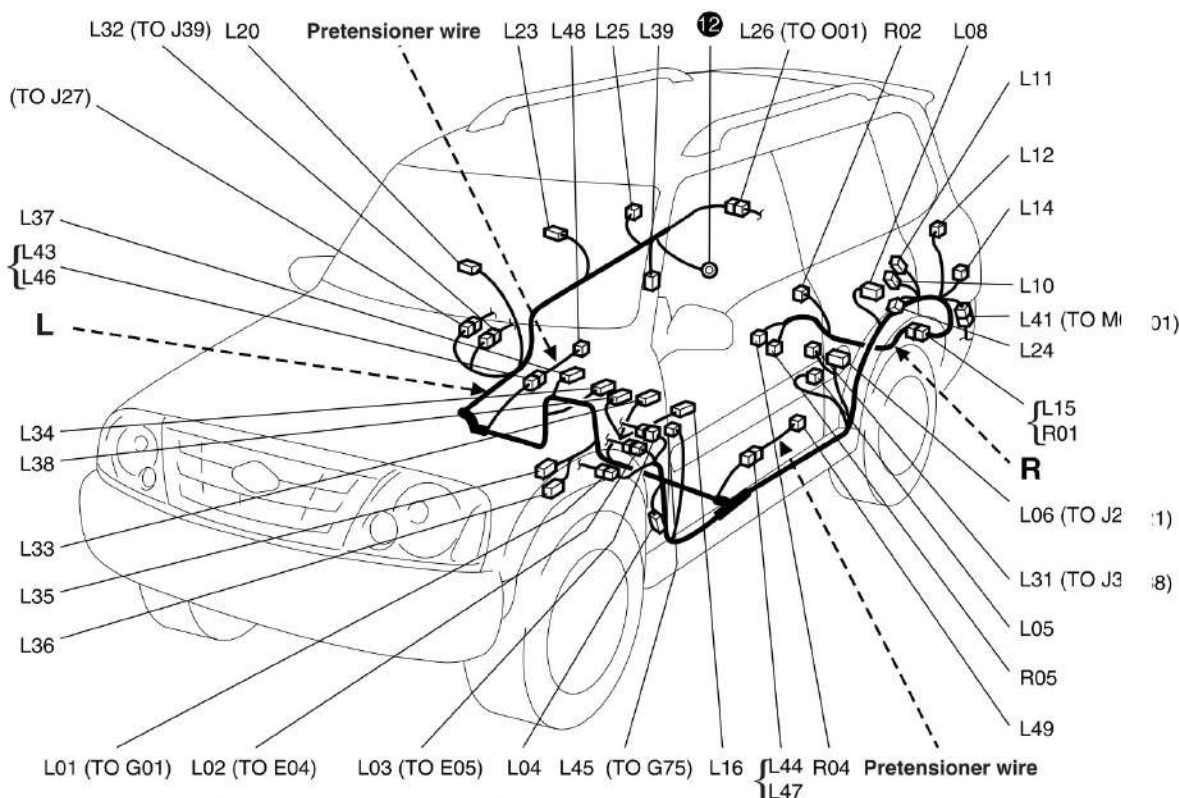
J:Front door wire, Rear door wire



No./Color	Connective position
	Front door wire (Driver side)
J01/N	Main harness (To E14)
J02/N	Mirror motor
J04/N	Front speaker
J05/N	Power window main switch
J08/N	Front power window motor
J09/N	Front door key switch
J10/GRY	Front door lock motor
J34/N	Mirror motor
J40/BLK	Mirror switch
	Front door wire (Passenger side)
J11/N	Main harness (To E53)
J12/N	Mirror motor
J14/N	Front speaker

No./Color	Connective position
	Front door wire (Passenger side)
J15/N	Power window sub switch
J16/N	Front power window motor
J17/N	Front door key switch
J18/GRY	Front door lock motor
J35/N	Mirror motor
	Rear door wire (L)
J21/N	Floor harness (To L06)
J22/N	Rear power window motor
J23/N	Rear power window sub switch
J24/GRY	Rear door lock motor
J36/N	Rear speaker
J38/N	Floor harness (To L31)

	Rear door wire (R)
J27/N	Floor harness (To L21)
J28/N	Rear power window motor
J29/N	Rear power window sub switch
J30/GRY	Rear door lock motor
J37/N	Rear speaker
J39/N	Floor harness (To L32)



No./Color	Connective position
	Floor harness
L01/N	Instrument panel harness (To G01)
L02/BLU	Main harness (To E04)
L03/N	Main harness (To E05)
L04/-	J/C
L05/N	Front door switch (Driver side)
L06/N	Rear door wire (To J21)
L08/N	Rear door switch (L)
L10/N	Accessory socket
L11/N	Accessory socket
L12/N	Rear door switch
L14/N (With rear fog light)	Rear combination light (L)
L14/GRN (Without rear fog light)	Rear combination light (L)
L14/BLU (Taiwan spec.)	Rear combination light (L)
L15/BLK	Fuel pump wire (To R01)
L16/N	Seat belt switch
L20/N	Front door switch (Passenger side)
L21/N	Rear door wire (To J27)

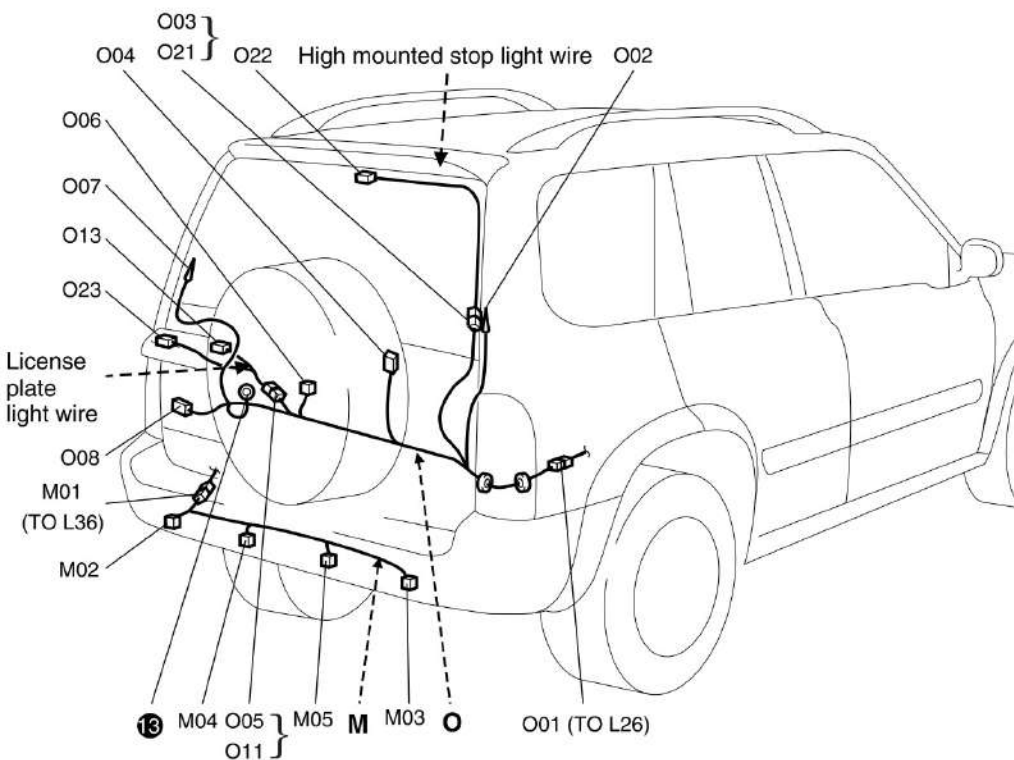
L23/N	Rear door switch (R)
L24/BLK	Diode #4
L25/N (With rear fog light)	Rear combination light (R)
L25/GRN (Without rear fog light)	Rear combination light (R)
L25/BLU (Taiwan spec.)	Rear combination light (R)
L26/N	Rearend door harness (To O01)
L31/N	Rear door wire (To J38)
L32/N	Rear door wire (To J39)
L33/N	Seat heater (Driver side)
L34/N	Seat heater (Passenger side)
L35/N	Parking brake switch
L36/BLK	Accessory socket #2
L37/BLK	G sensor
L38/N	Sub woofer
L39/BLK	Rear wiper relay

No./Color	Connective position
	Floor harness
L41/BLK	Rear bumper wire (To M01)
L43/YEL	Pretensioner wire (To L46)
L44/YEL	Pretensioner wire (To L47)
L45/YEL	Instrument panel harness (To G75)
	Pretensioner wire
L46/YEL	Floor harness (To L43)
L48/YEL	Pretensioner
	Pretensioner wire
L47/YEL	Floor harness (To L44)
L49/YEL	Pretensioner
	Fuel pump wire
R01/BLK	Floor harness (To L15)
R02/N	Fuel pump and gauge
R04/BLK	Wheel speed sensor (R)
R05/N	Wheel speed sensor (L)

Rear

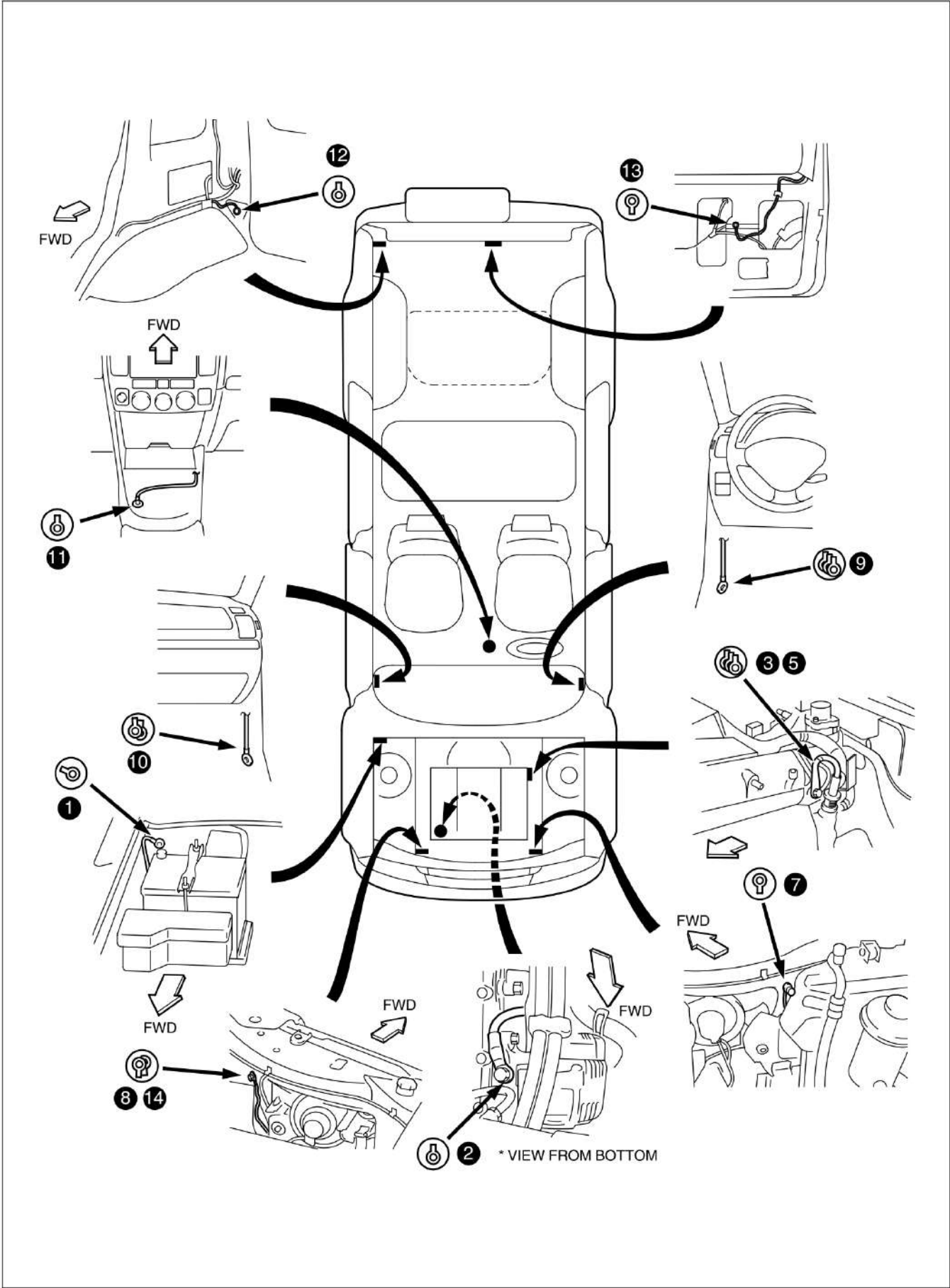
O:Rear end door harness, License plate light wire, High mounted stop light wire

M:Rear bumper wire



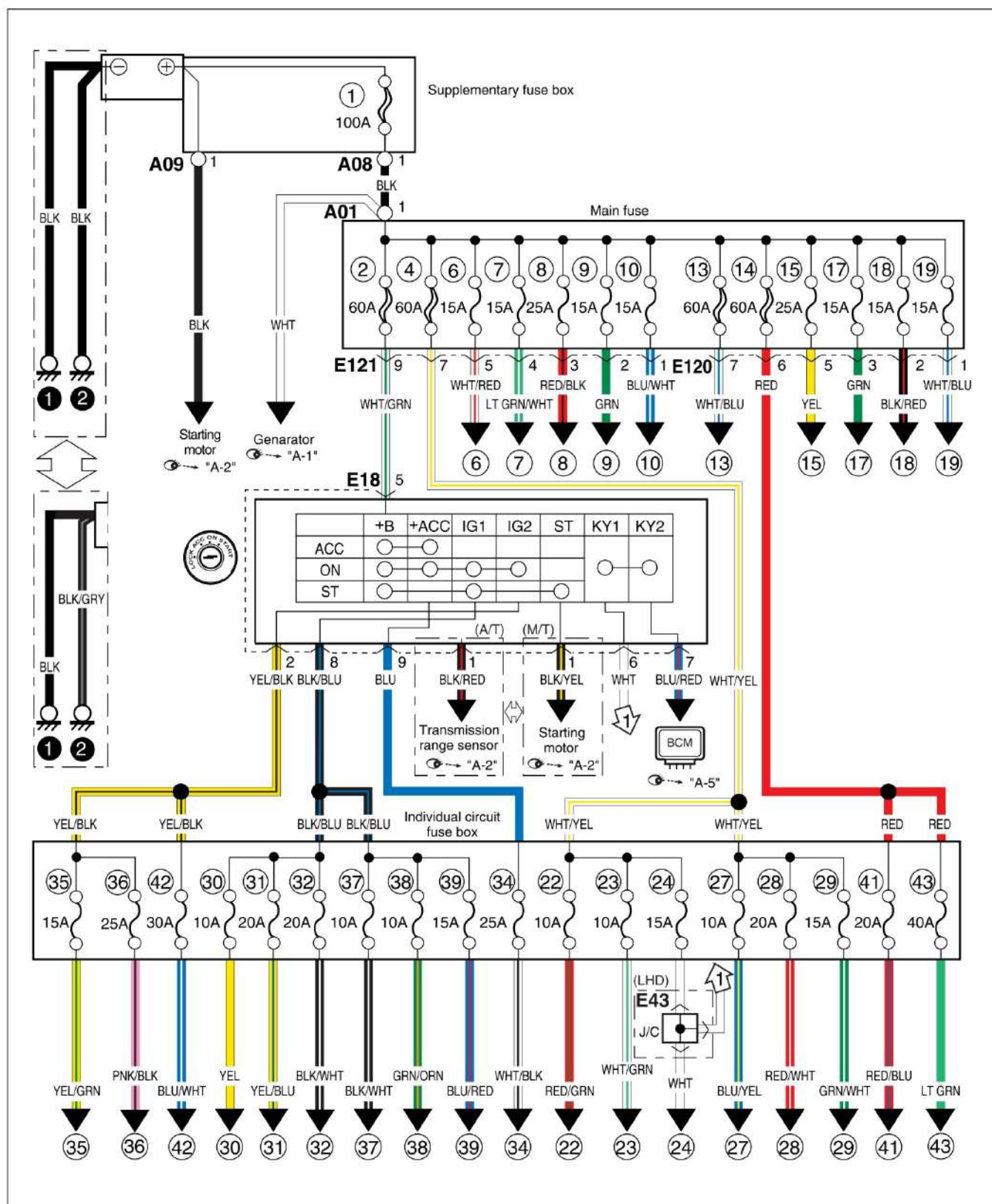
No./Color	Connective position
	Rearend door harness
O01/N	Floor harness (To L26)
O02/BLK	Rear defogger
O03/N	High mounted stop light wire (To O21)
O04/N	Rear wiper motor
O05/N	License plate light wire (To O11)
O06/N	Rearend door lock switch
O07/N	Rear defogger
O08/GRY	Rearend door lock motor
	License plate light wire
O11/N	Rearend door wire (To O05)
O12/N	License plate light (RH)
O13/N	License plate light (LH)
	High mounted stop light wire
O21/N	Rearend door wire (To O03)
O22/N	High mounted stop light
	Rear bumper wire
M01/BLK	Floor harness (To L36)
M02/GRY	Rear combination light (LH)
M03/GRY	Rear combination light (RH)
M04/N	License plate light (LH)
M05/N	License plate light (RH)

LHD



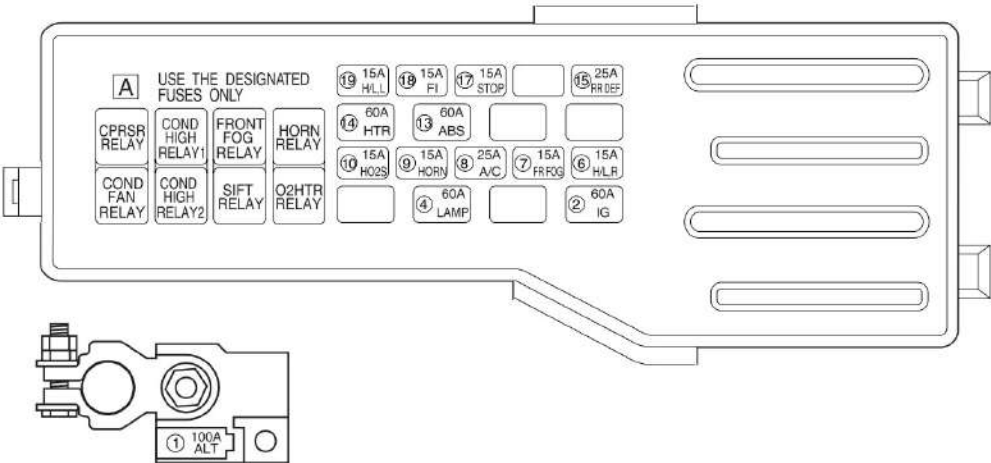
Power supply diagram

Power supply diagram



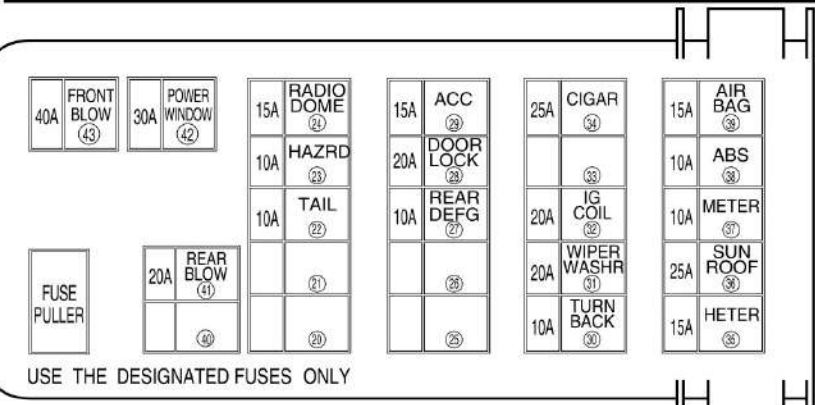
Fuses and the protected parts
The chart below describes what parts each fuse protects.

Fuses in main fuse box, Supplementary fuse box



No.	Fuse	Protected circuit
①	100A ALT	Battery Generator All electric circuit
②	60A IG	Ignition switch
④	60A LAMP	Circuit fuse box
⑥	15A H/L, R	Headlight (R) Diode #1
⑦	15A FR FOG	Fog light relay Front fog light
⑧	25A A/C	Compressor relay Condenser fan relay Condenser fan motor Compressor Condenser HI fan motor relay No. 1
⑨	15A HORN	Horn relay Horn Combination switch BCM

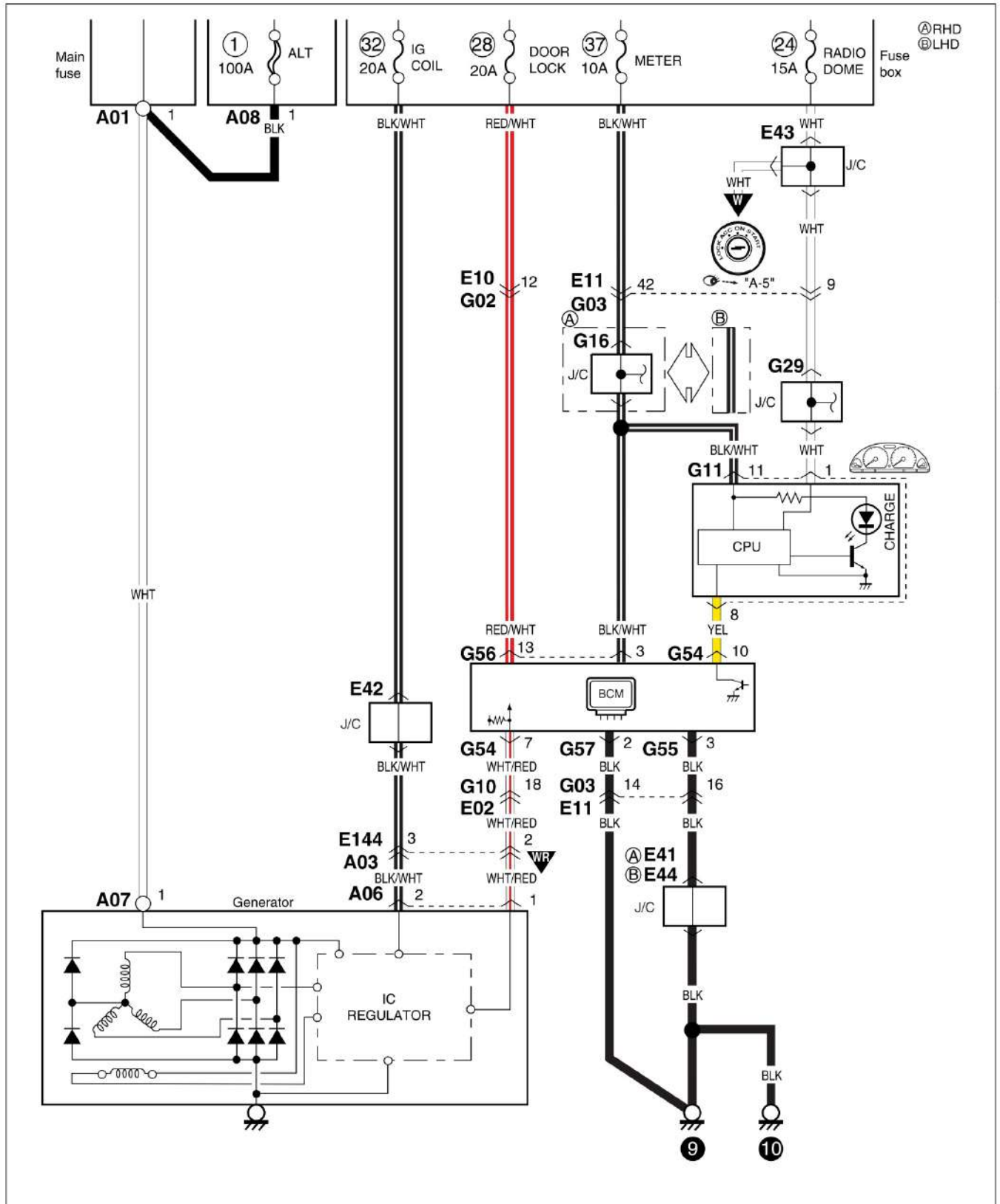
No.	Fuse	Protected circuit
⑩	15A HO ₂ S	O ₂ sensor heater relay Heated oxygen sensor #1 Heated oxygen sensor #2 Heated oxygen sensor #3 Heated oxygen sensor #4
⑬	60A ABS	ABS actuator unit & control module
⑭	60A HTR	Circuit fuse box
⑮	25A RR DEF	Rear defogger relay ECM / PCM Rear defogger
⑰	15A STOP	Brake light switch
⑱	15A FI	Main relay ECM / PCM ImbCM Fuel pump CMP sensor Injector #1 Injector #2 Injector #3 Injector #4 Injector #5 Injector #6 EVAP canister purge valve Vehicle speed sensor EGR valve IAC valve Air flow meter Fuel pump relay Cruiseactuator with control module Variable inhalation valve Brake light switch
⑲	15A H/L, L	Headlight (L) Diode #1



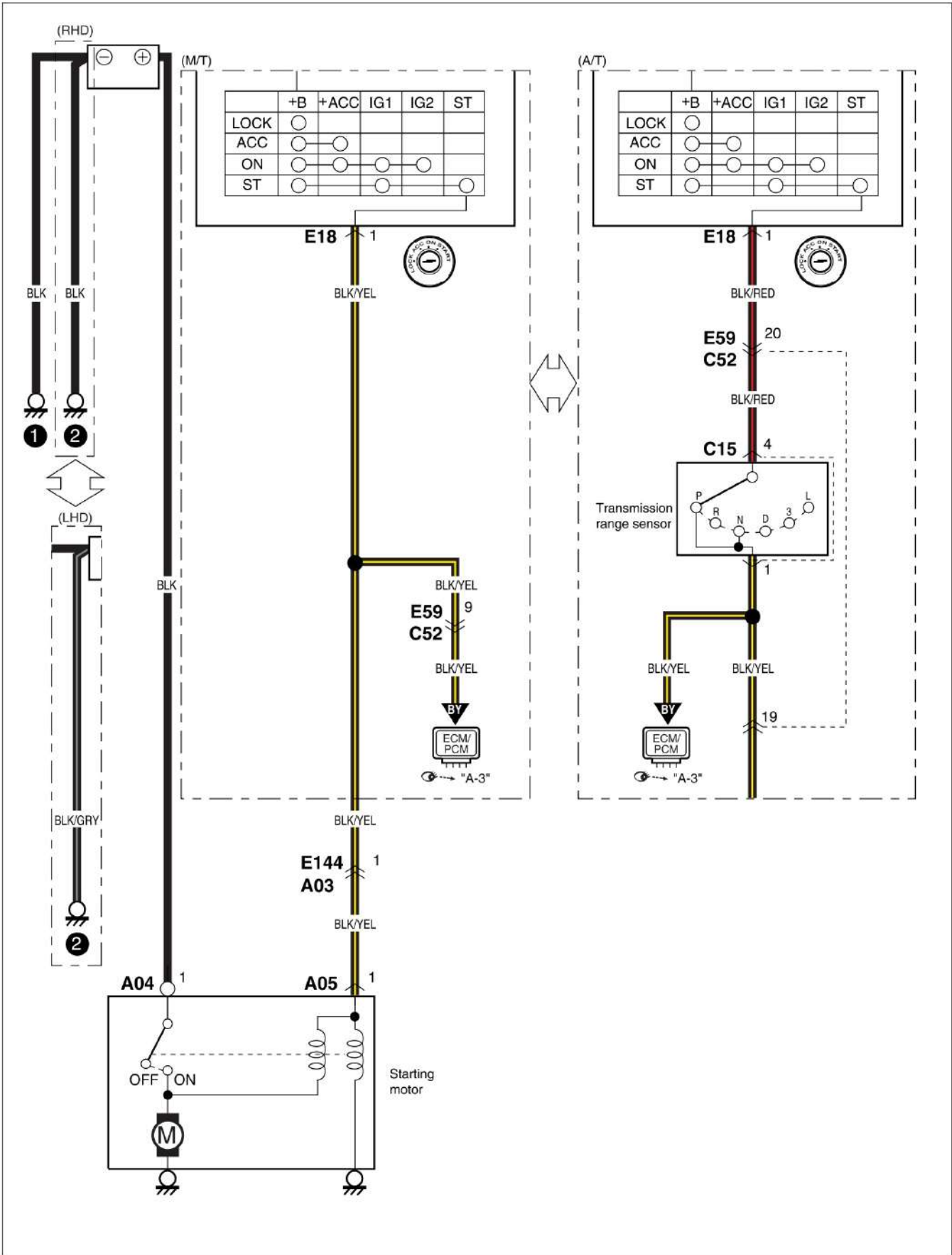
No.	Fuse	Protected circuit								
(22)	10A TAIL	Headlight relay No.2	(30)	10A TURN BACK	Back-up light switch	(36)	25A SUN ROOF	Condenser HI fan motor relay No. 1		
		Front turn signal & position lamp			Transmission range sensor			Condenser HI fan motor relay No. 2		
		BCM			Headlight beam leveling actuator (L)			Sunroof		
		Rear combination light			Headlight beam leveling actuator (R)			Rear defogger switch		
		License plate light			Turn signal light relay			Combination meter		
		Front fog light switch			BCM			ImbCM		
		Front fog light relay	Front wiper motor	Headlight leveling switch						
		Auto A/C controller	Combination switch	BCM						
		Rear blower motor switch	Rear wiper motor	Auto A/C controller						
			Rear wiper relay	Fan actuator						
(23)	10A HAZARD	Turn signal light relay			(37)	10A METER	Combination switch			
(24)	15A RADIO DOME	ECM / PCM	(31)	20A WIPER WASHER	Generator	(38)	10A ABS	ABS actuator unit & control module		
		Ignition switch			IG COIL #1			G sensor		
		Data link connector			IG COIL #2					
		Combination meter			IG COIL #3					
		Spot light			IG COIL #4					
		Interior light (Center)			IG COIL #5					
		Interior light (Rear)			IG COIL #6					
		Radio			Noise supressor					
		Auto A/C controller			Heated oxygen sensor #1					
		TCM			Heated oxygen sensor #2					
(27)	10A REAR FOG	Rear fog light switch			(39)	15A AIRBAG	A/B SDM			
(28)	20A DOOR LOCK	BCM	(32)	20A IG COIL	ECM / PCM	(41)	20A REAR BLOW	Rear blower motor relay		
					ImbCM					
O ₂ sensor heater relay										
TCM										
(29)	15A ACC	Accessory socket			(34)	25A CIGAR	BCM	(42)	30A POWER WINDOW	Power window main switch
		Sub woofer					ACC relay			Front power window sub switch (Passenger side)
		ACC relay					Mirror switch			Rear power window sub switch (L)
							Radio			
							Cigar lighter			Rear power window sub switch (R)
							Rear defogger switch			
(35)	15A HEATER				(43)	40A FRONT BLOW	Blower motor relay			
				Blower motor						
				Diode (A/C)						

System circuit diagram

A-1 Charging system

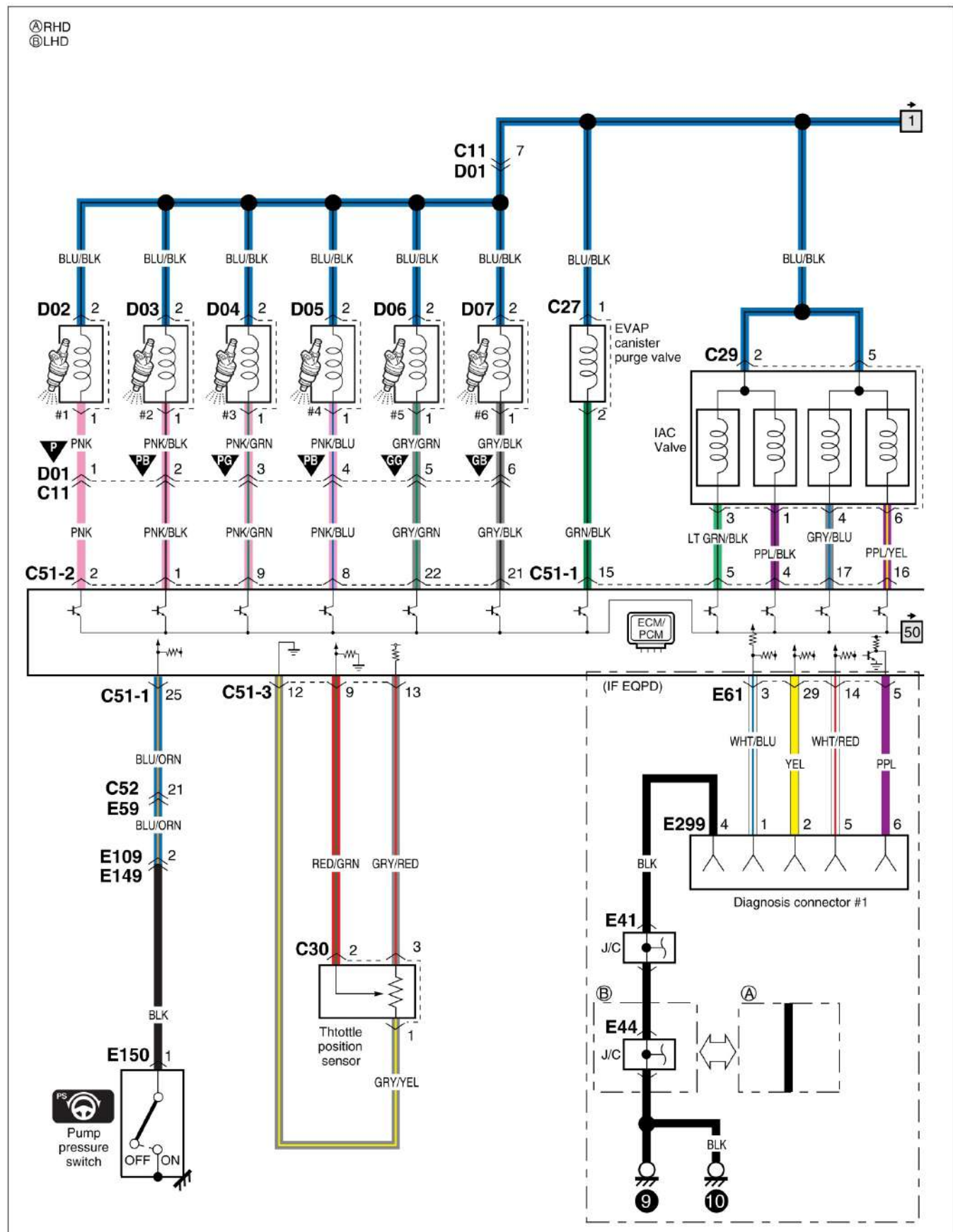


A-2 Cranking system

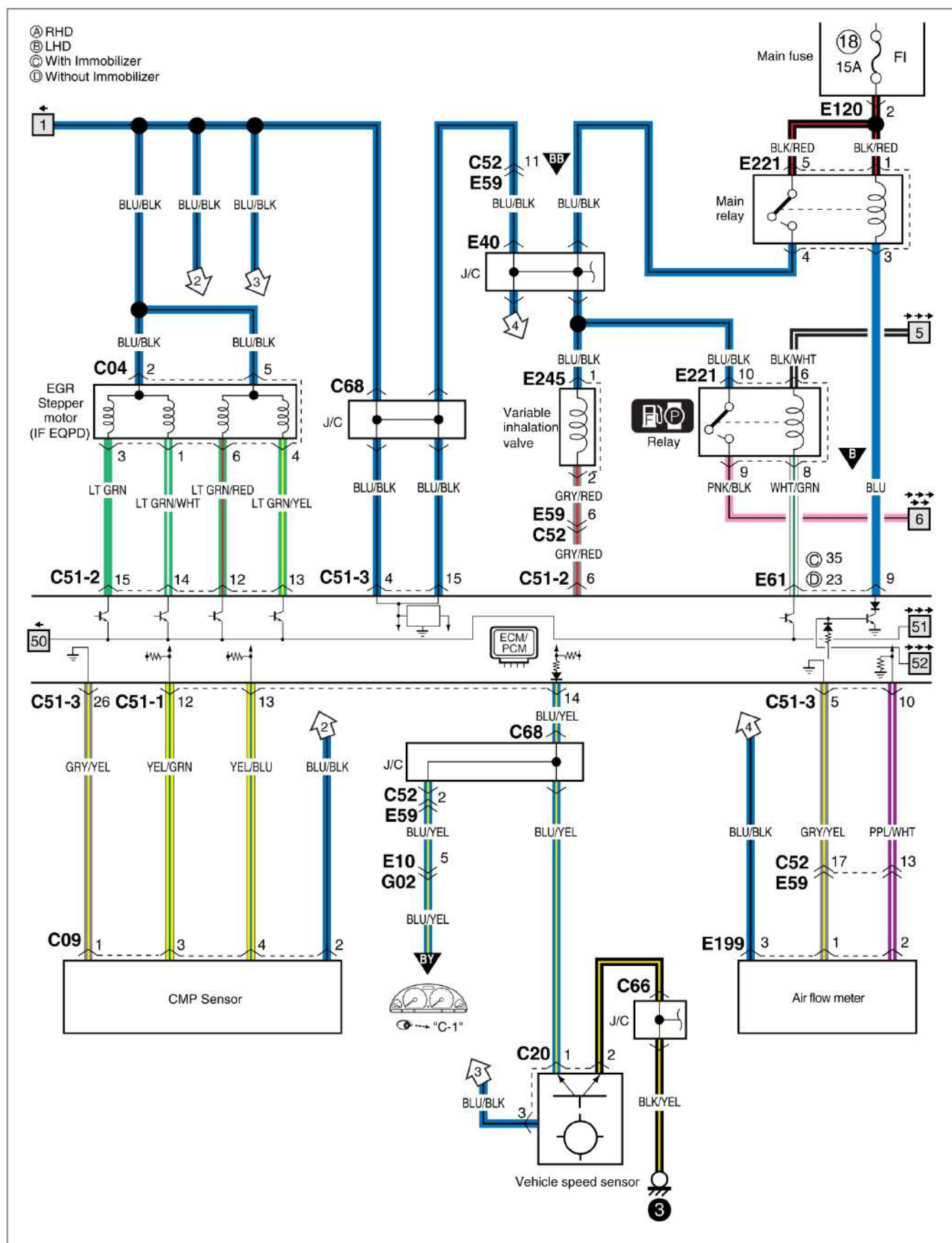


A-3 Ignition, engine, emission (and 4WD) control system

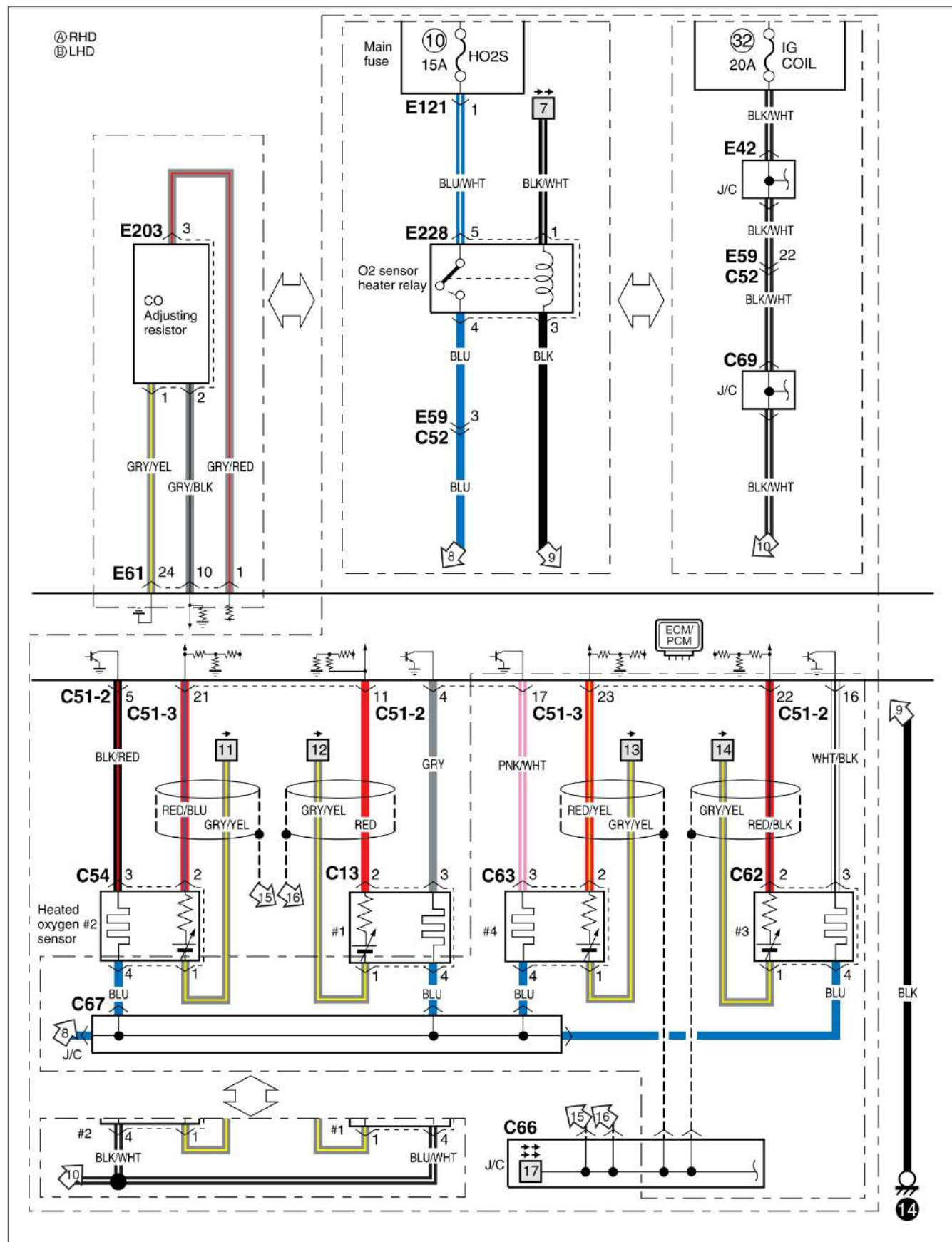
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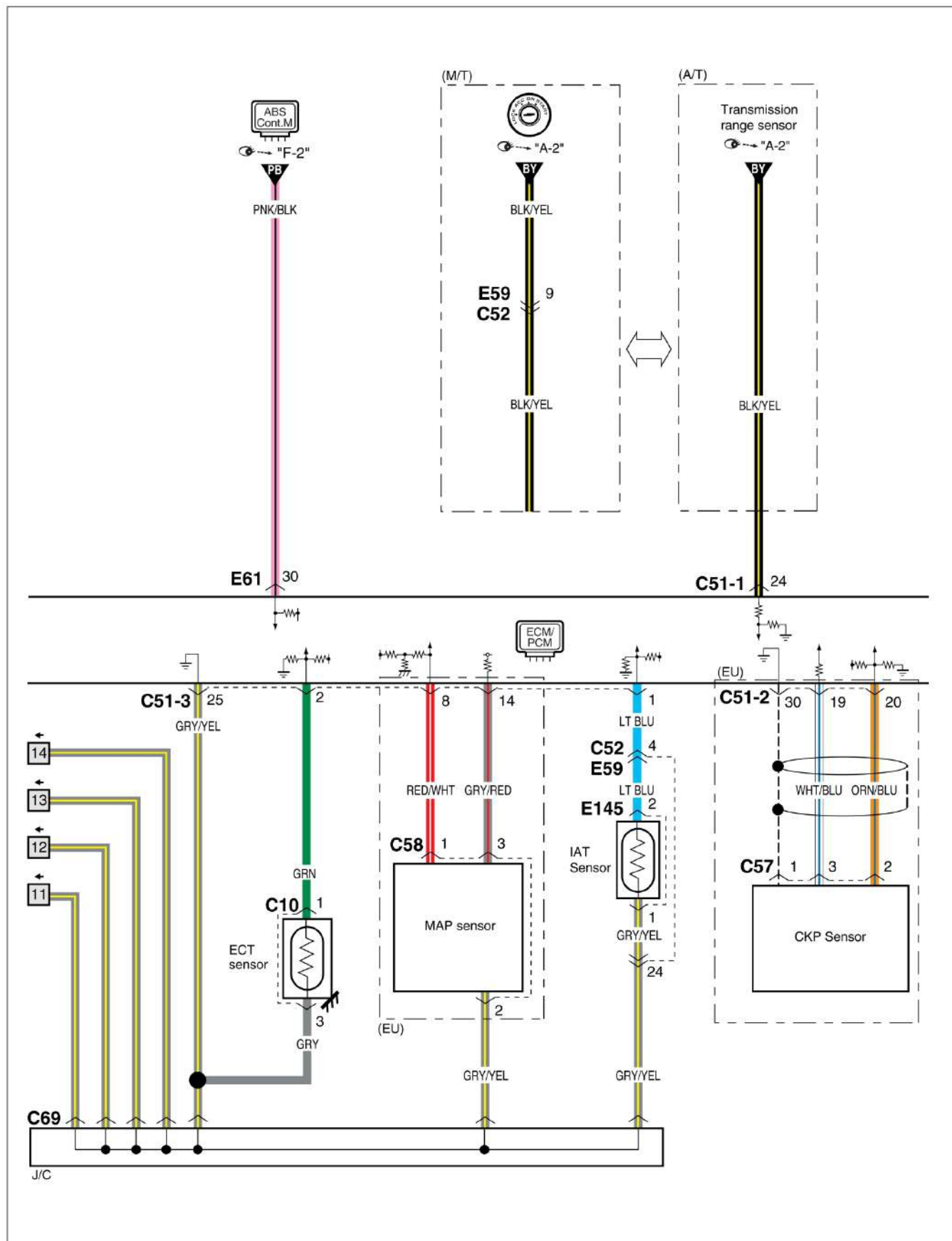


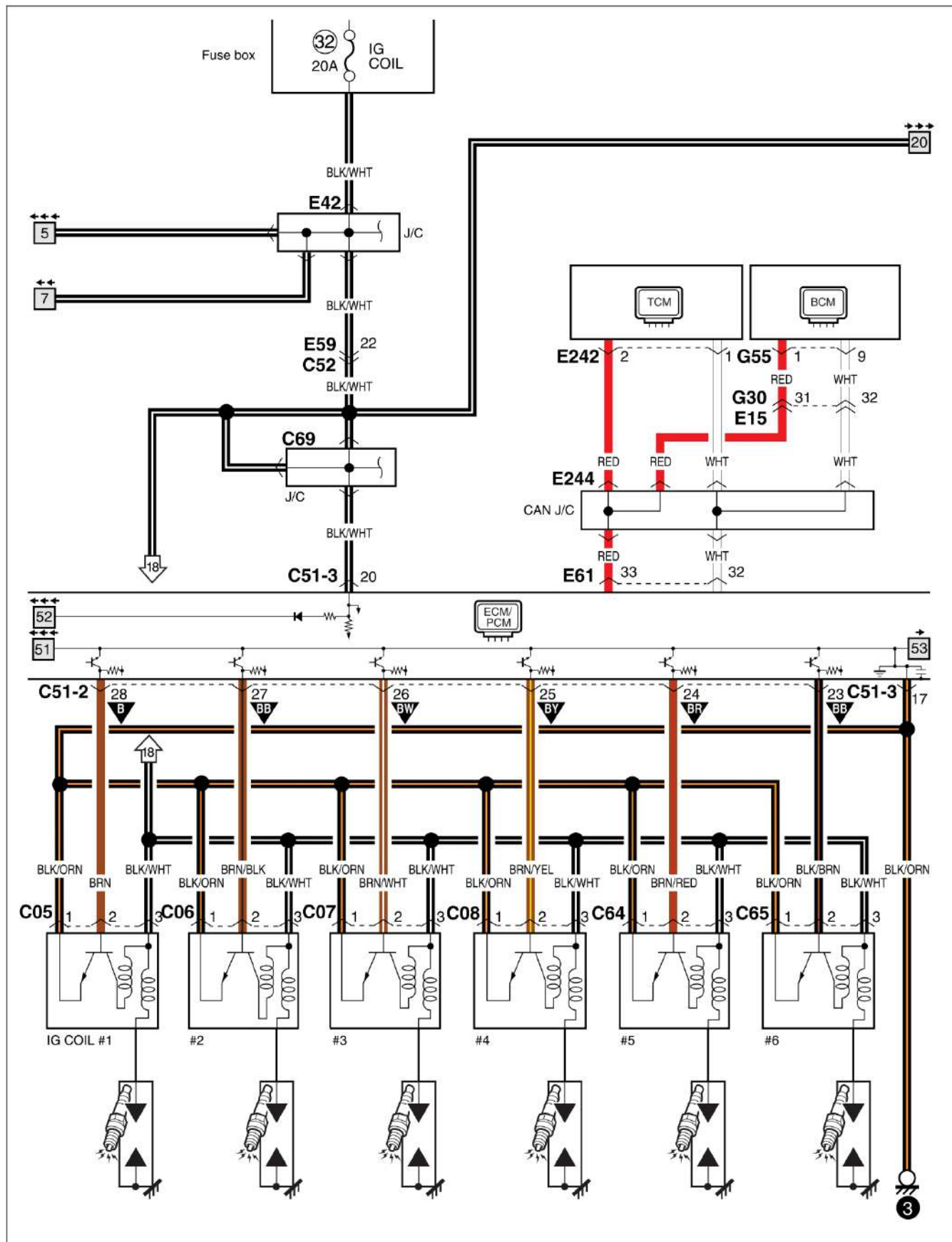
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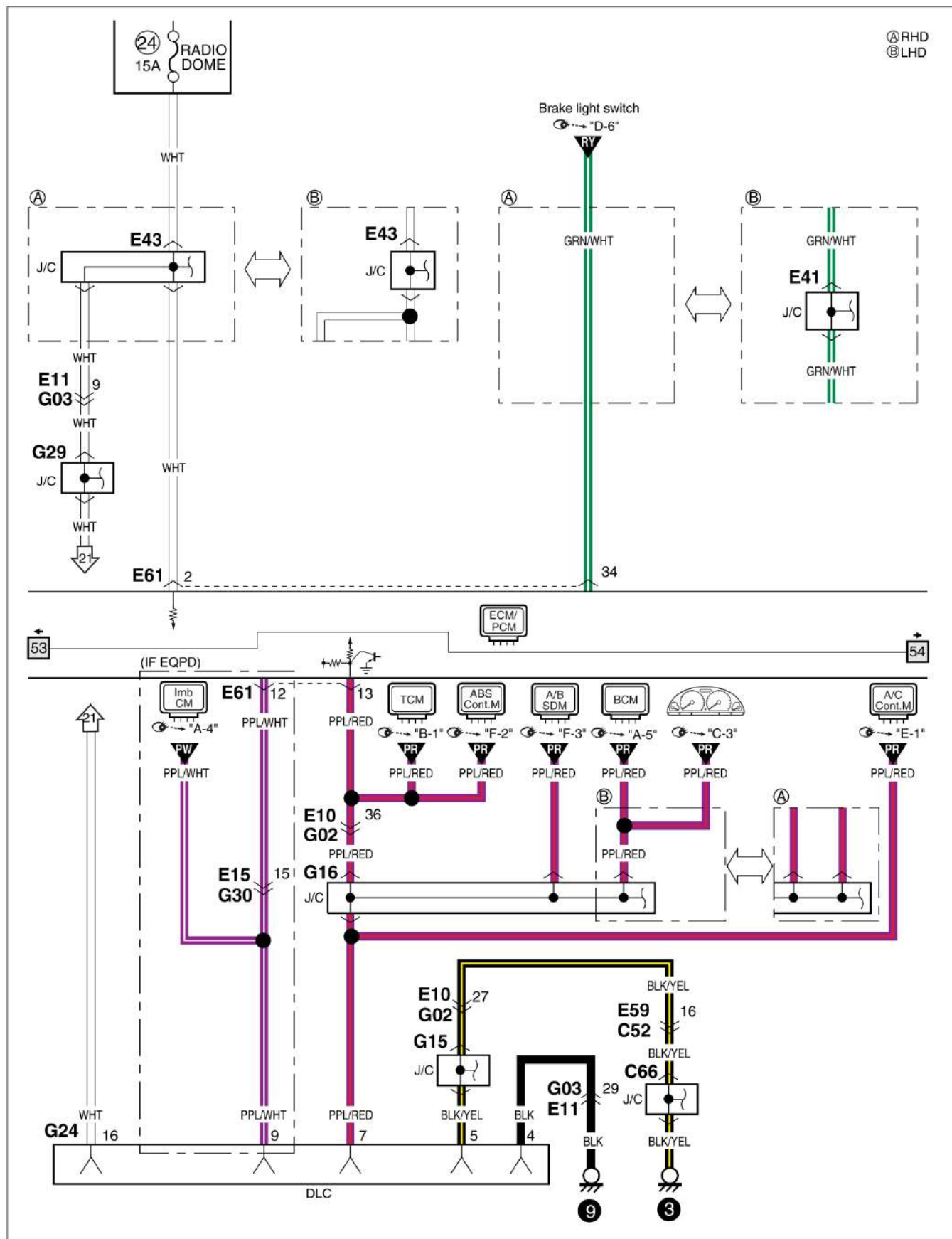
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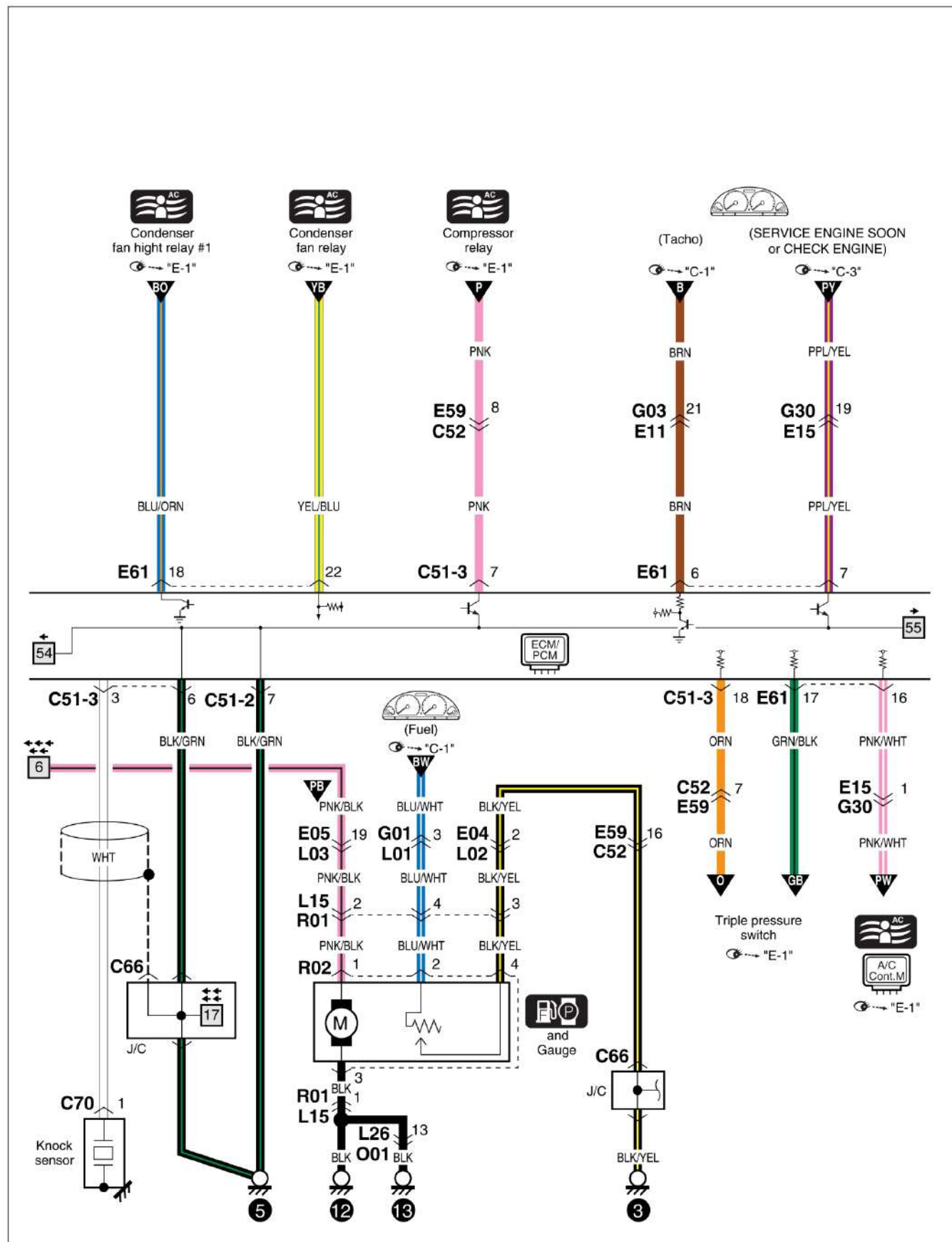


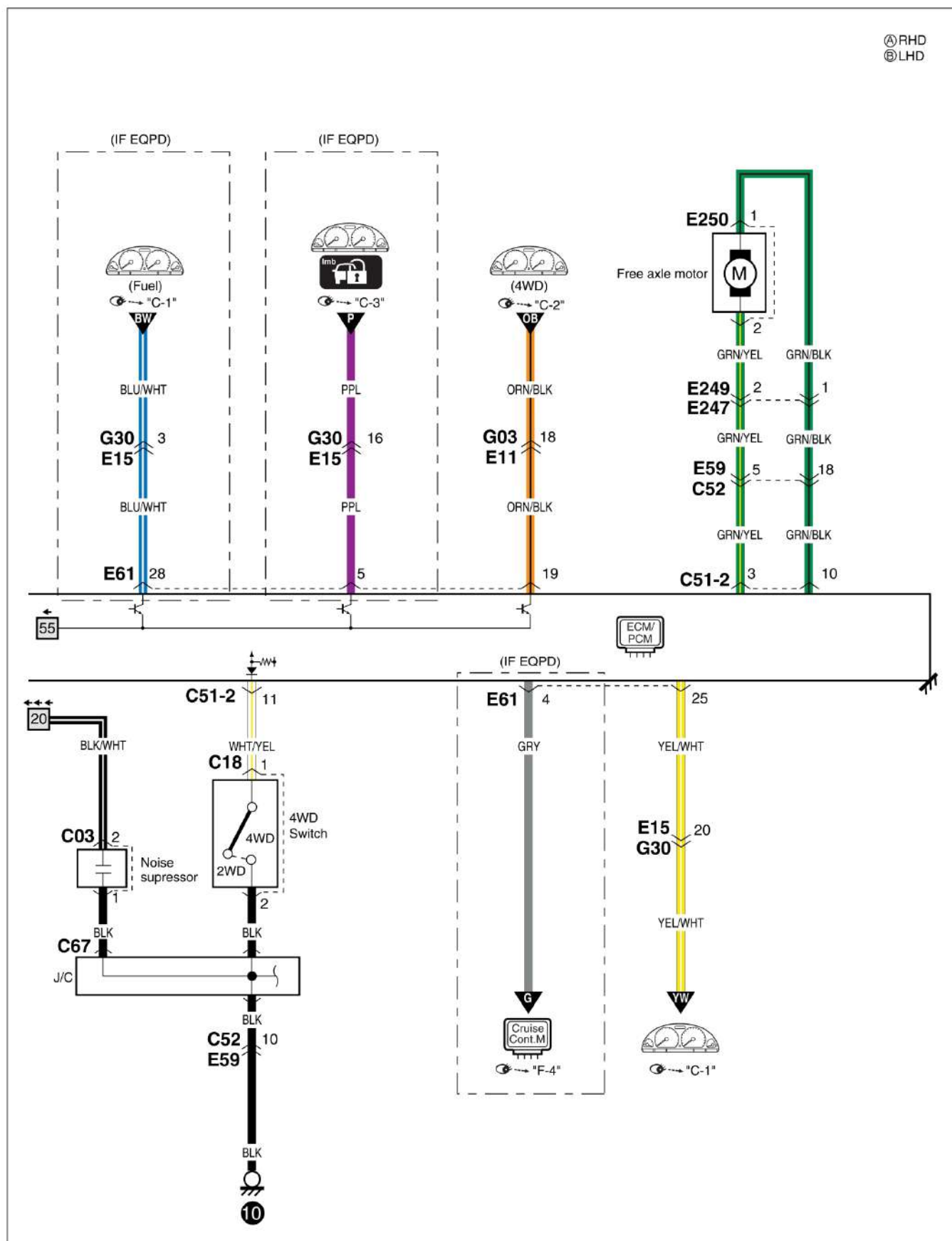


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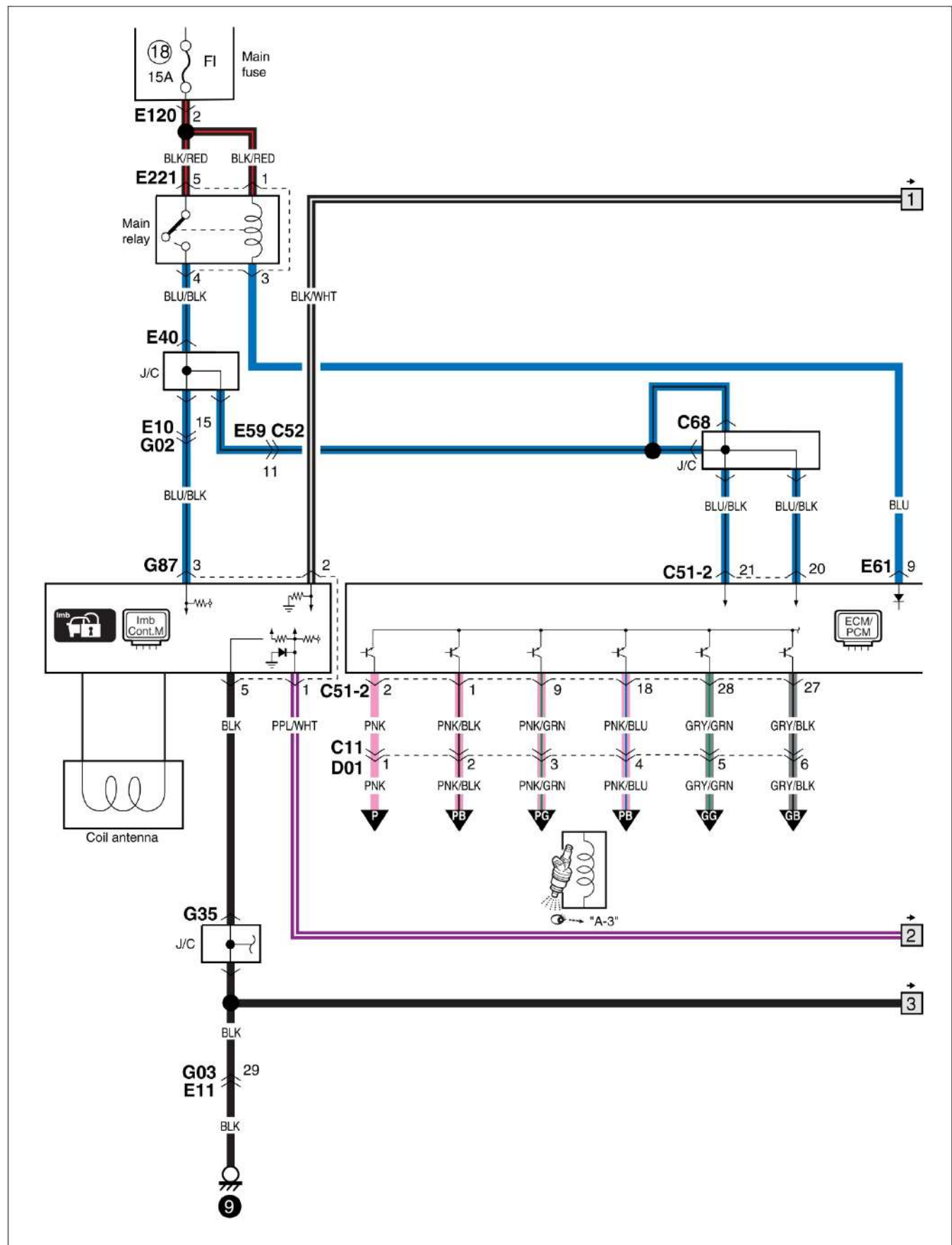


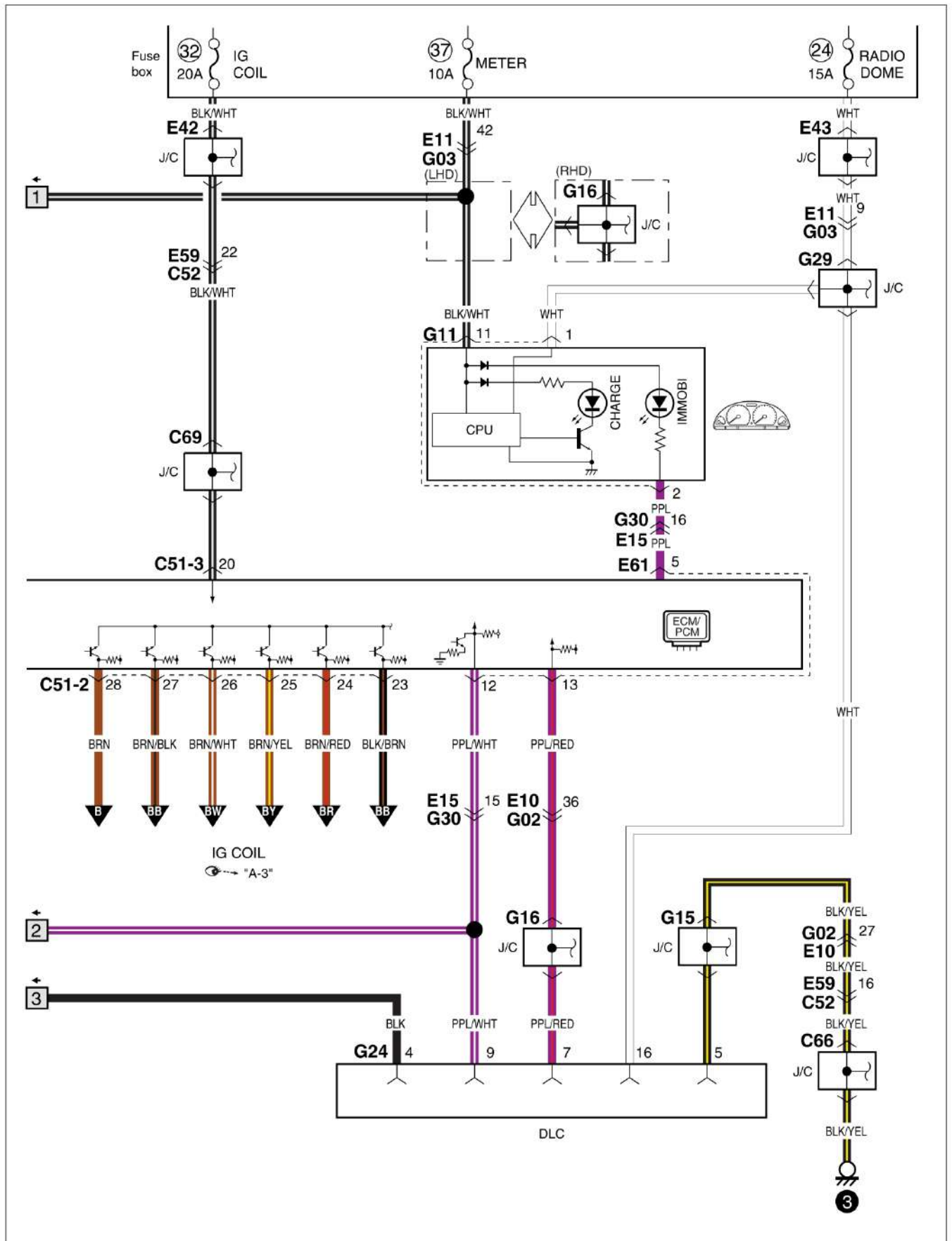
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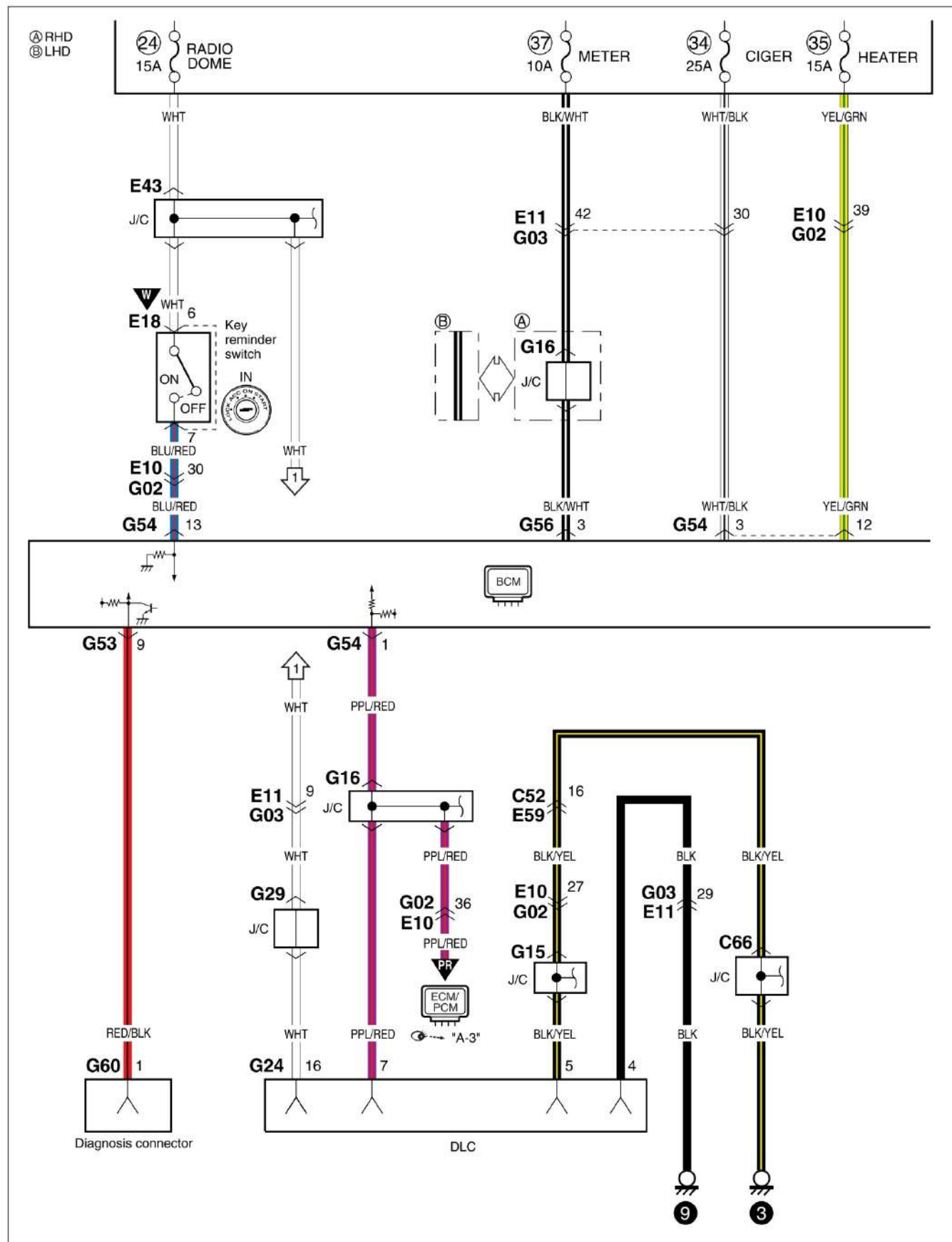
A-4 Immobilizer control system



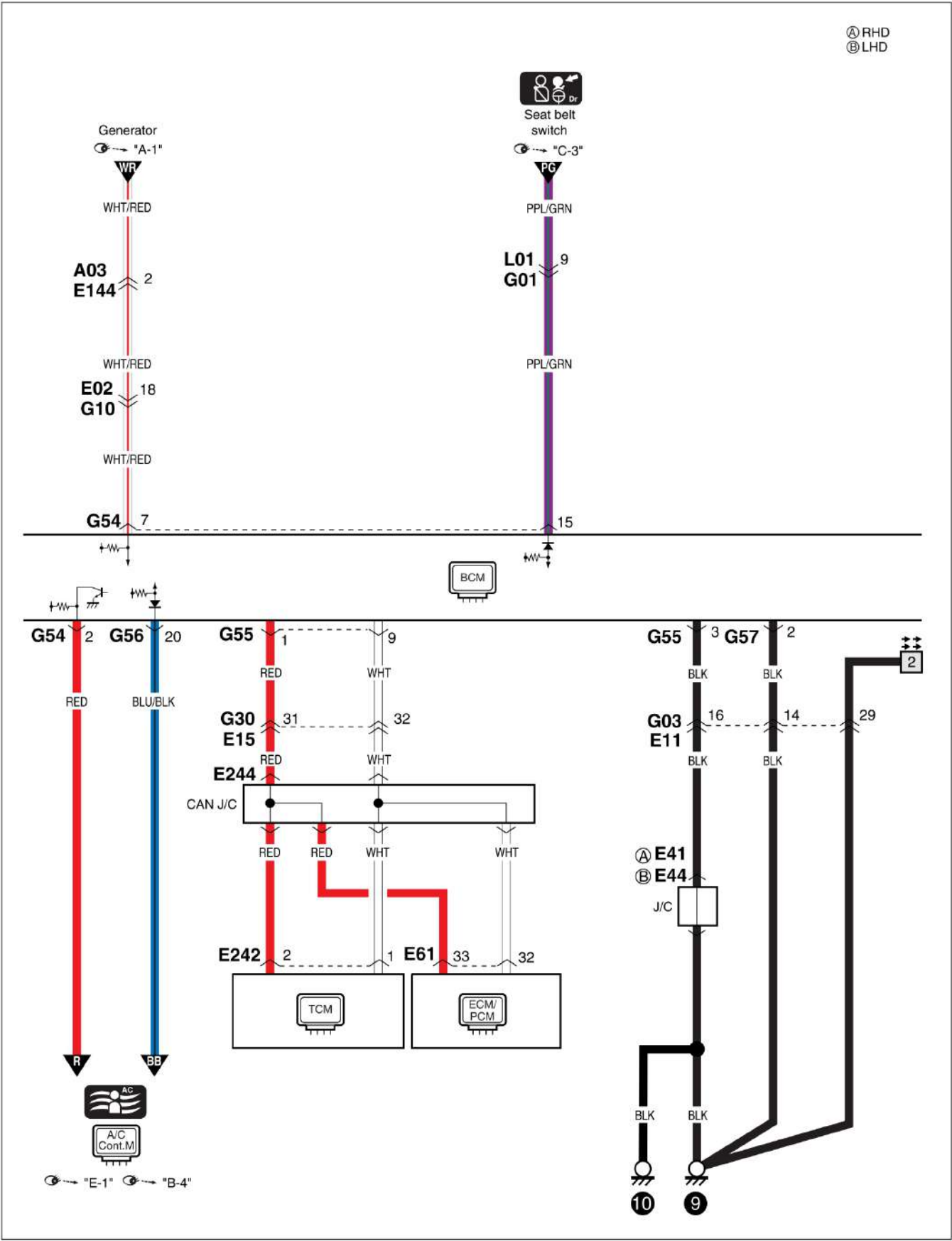


A-5 Body electric control system

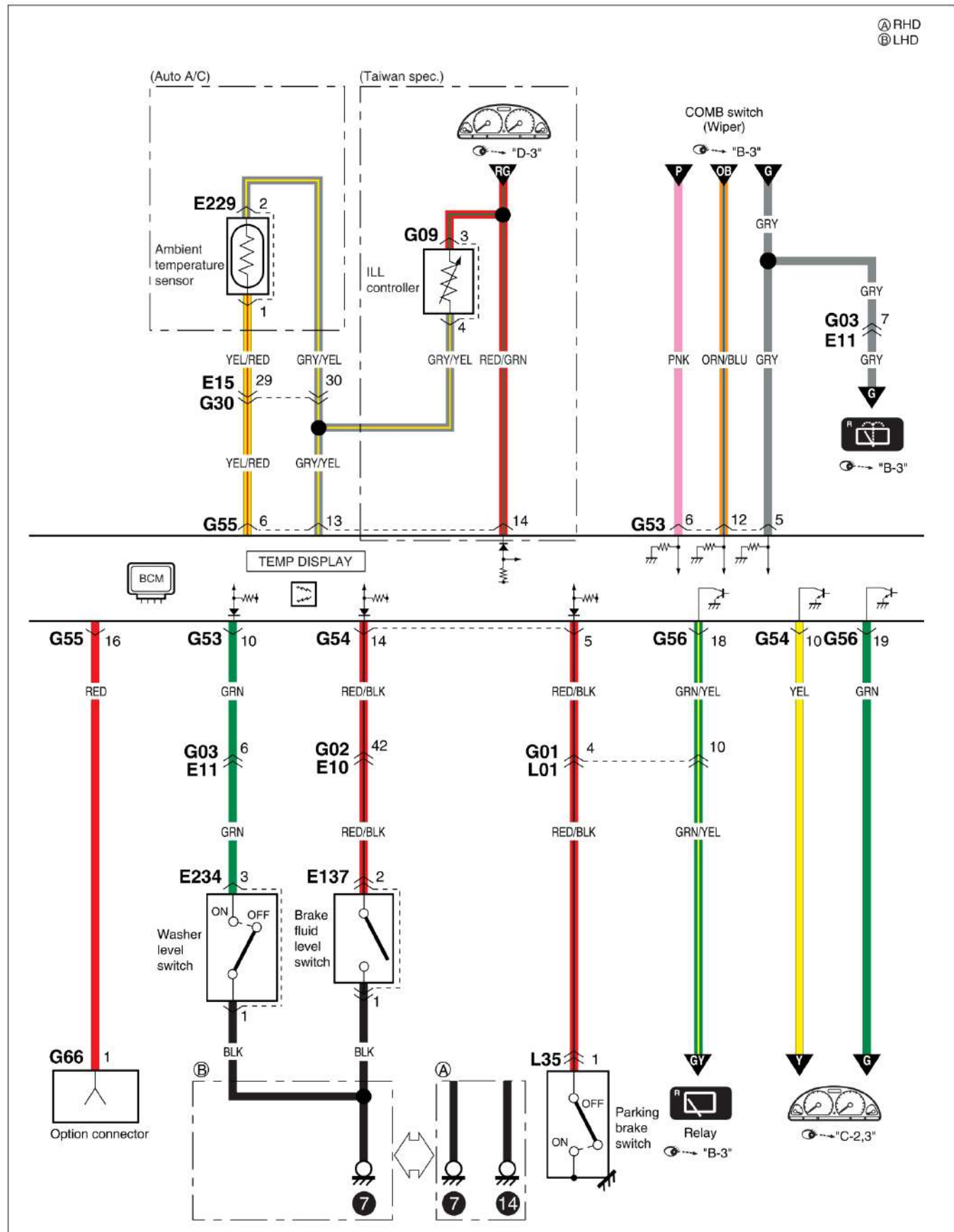
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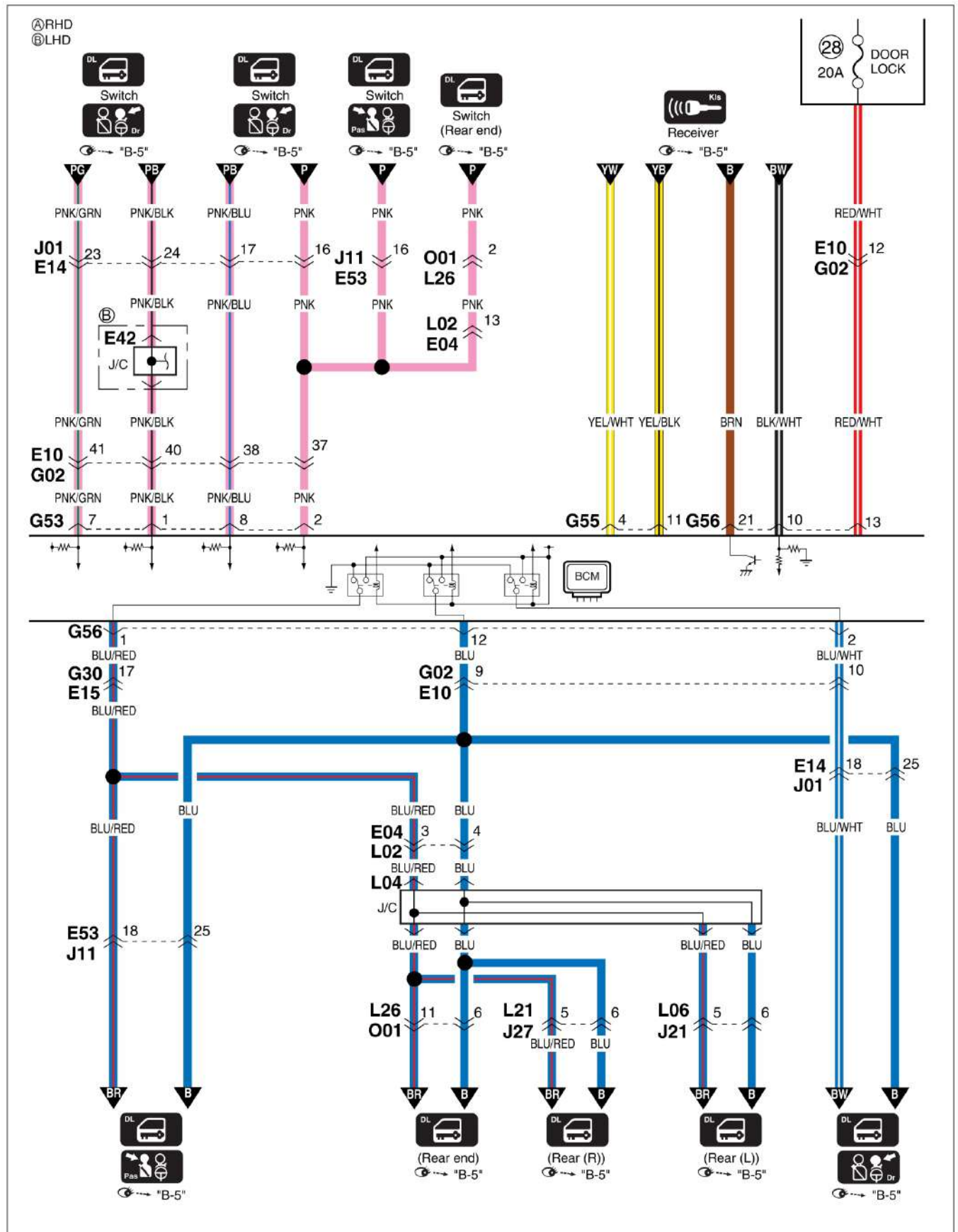
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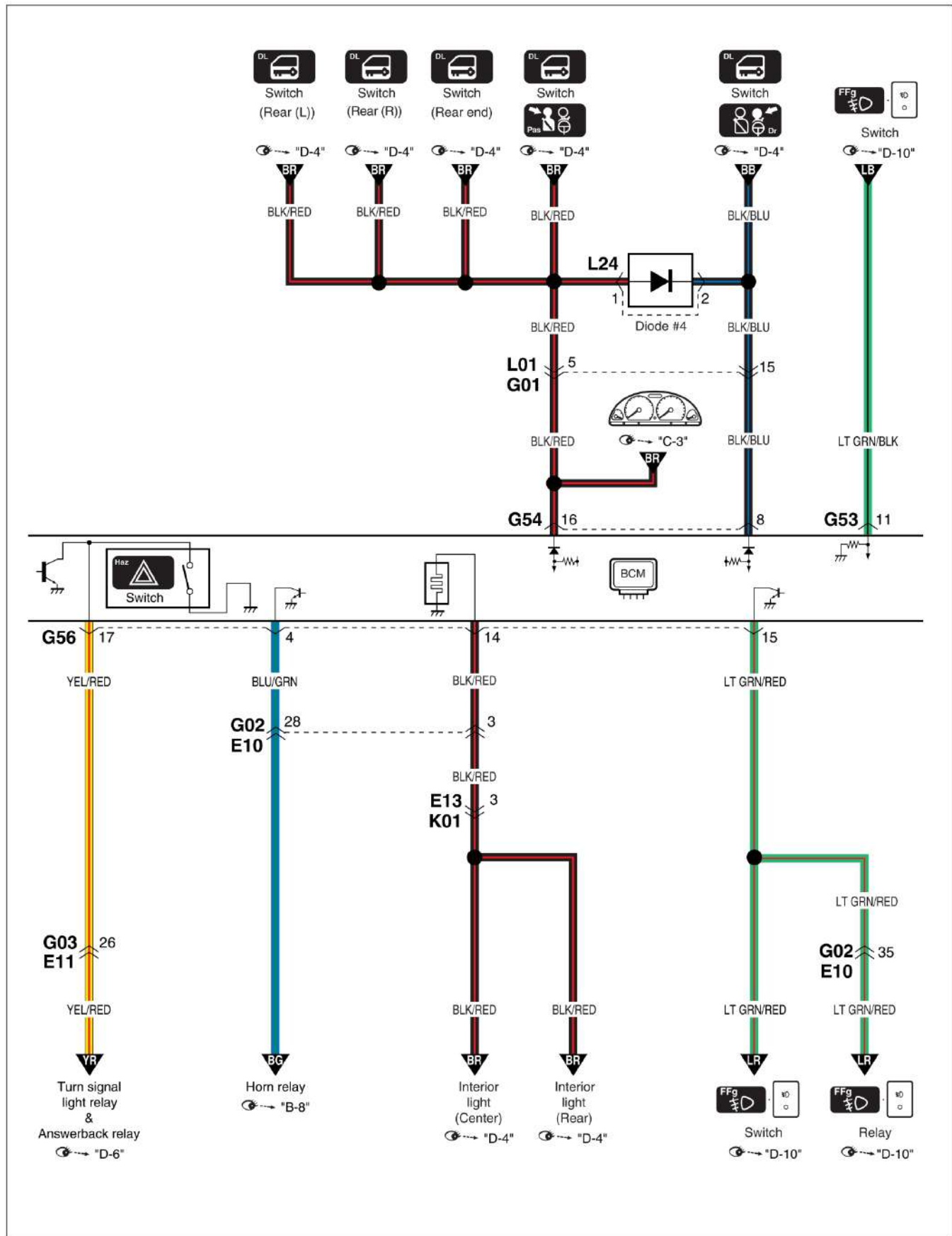


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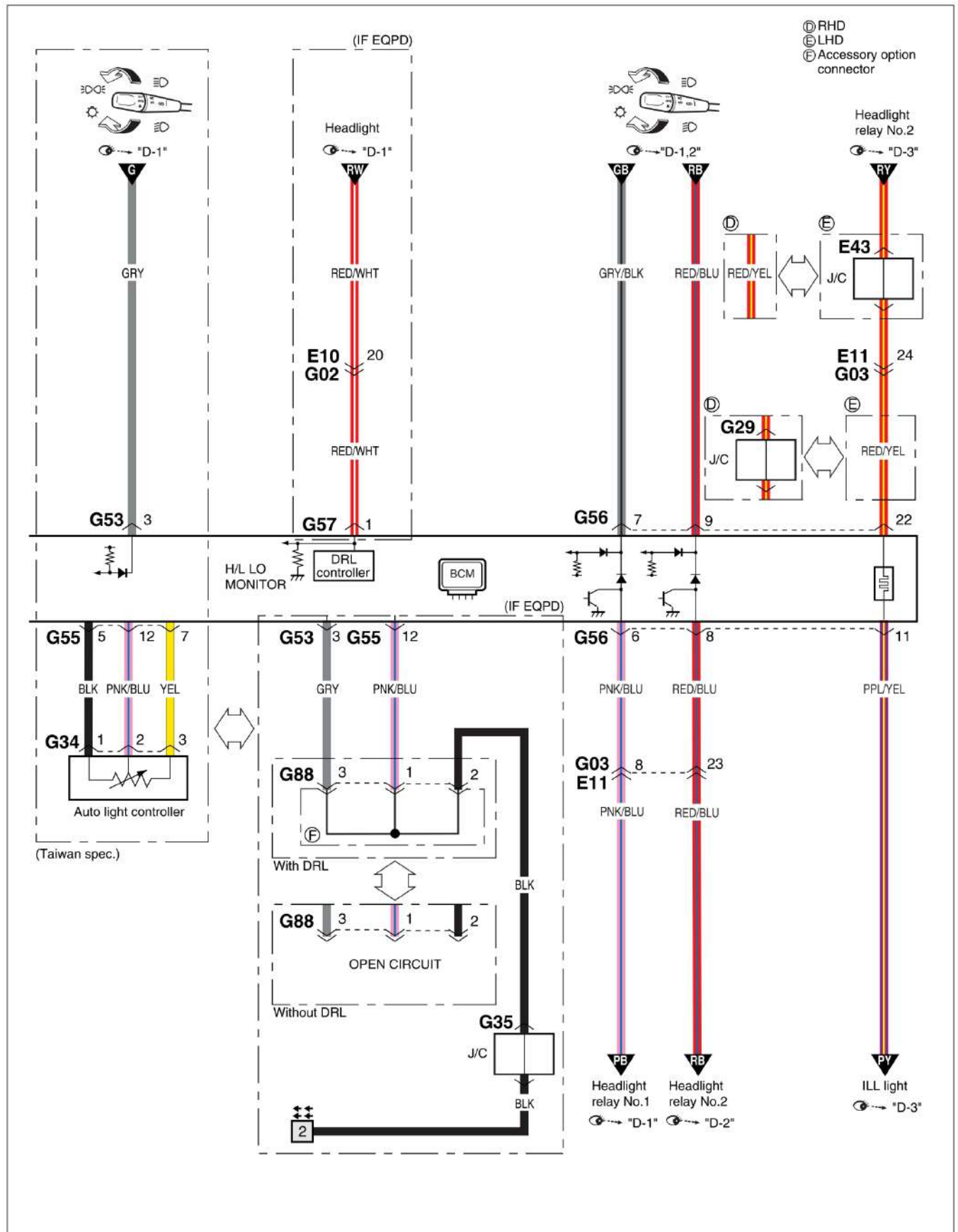


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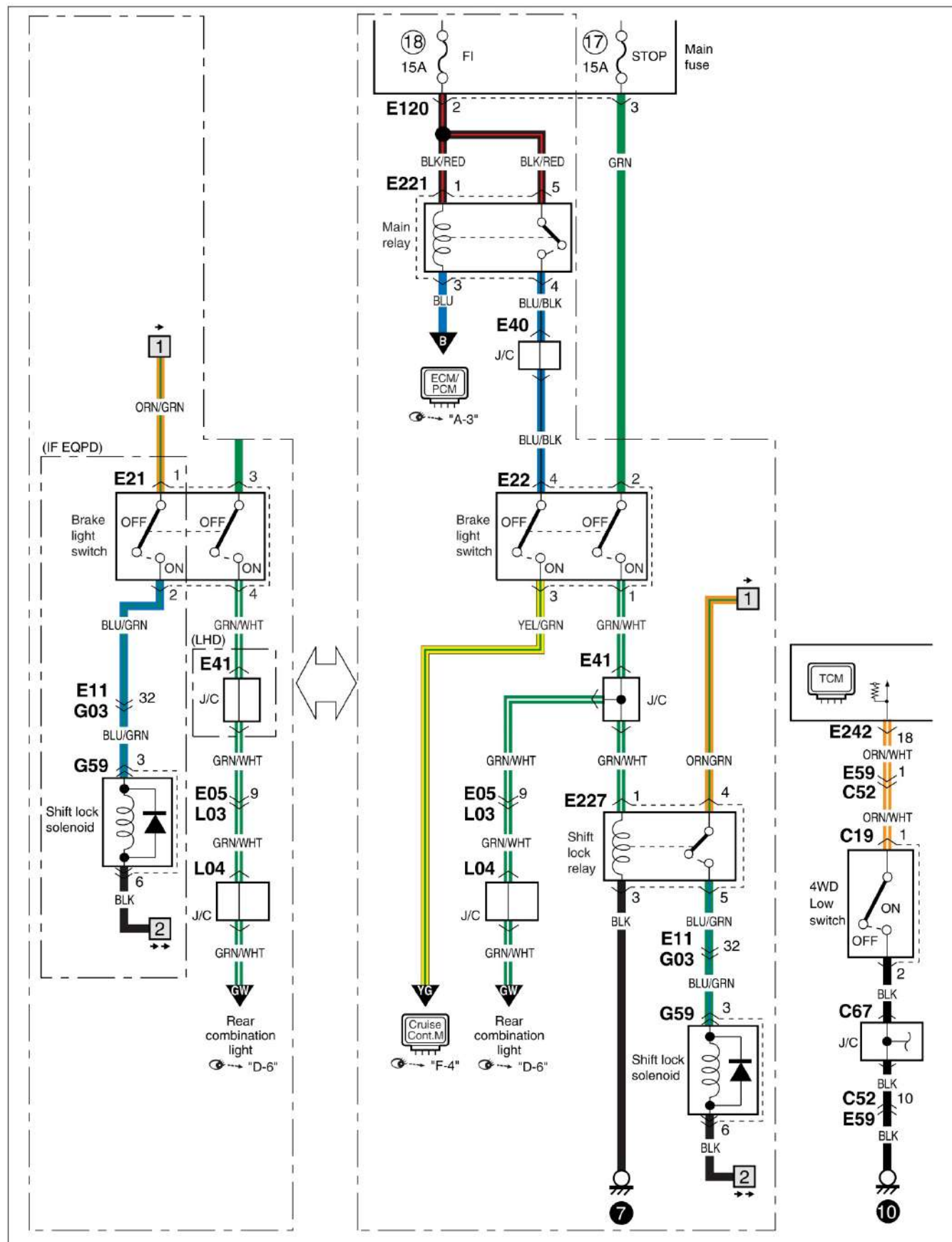




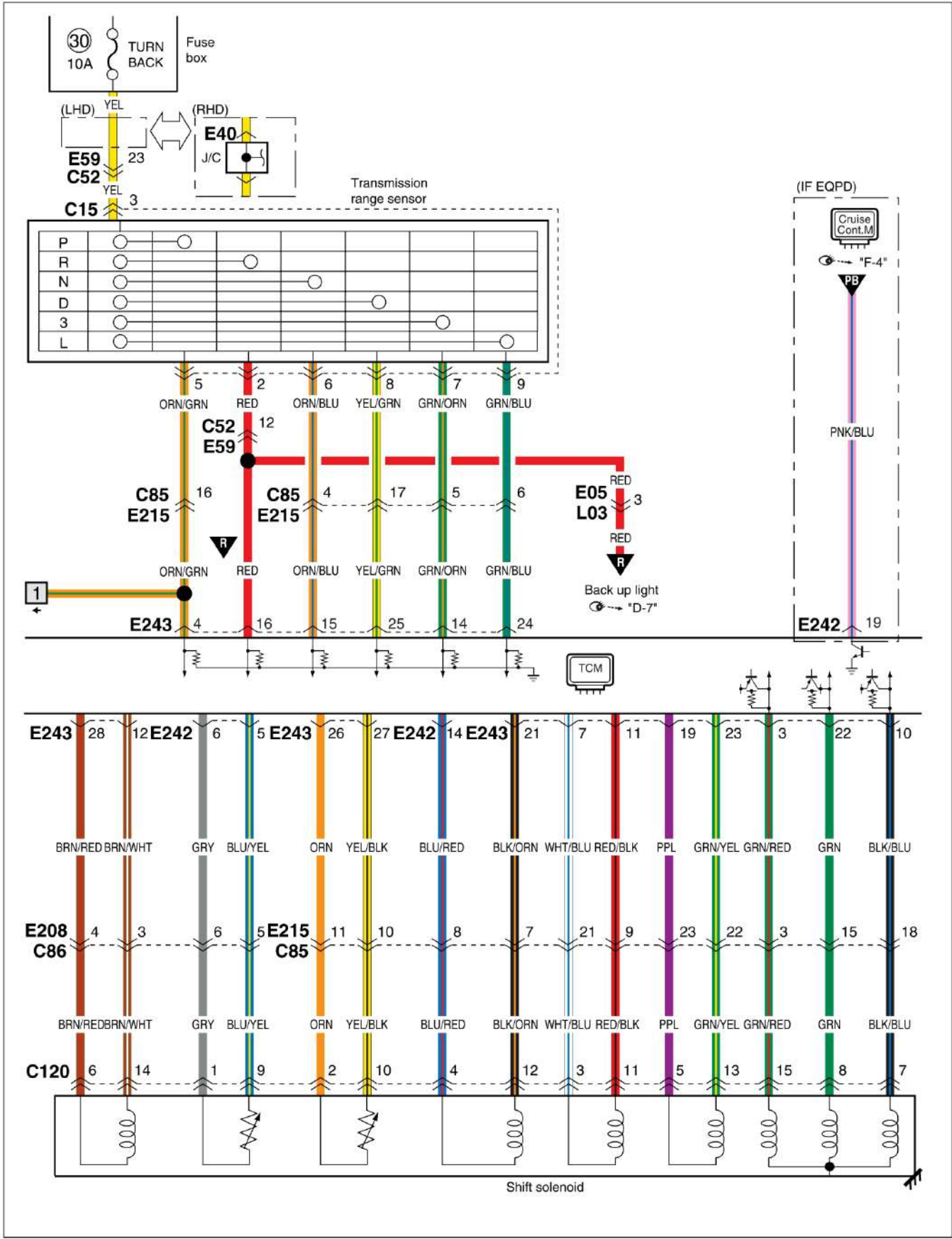
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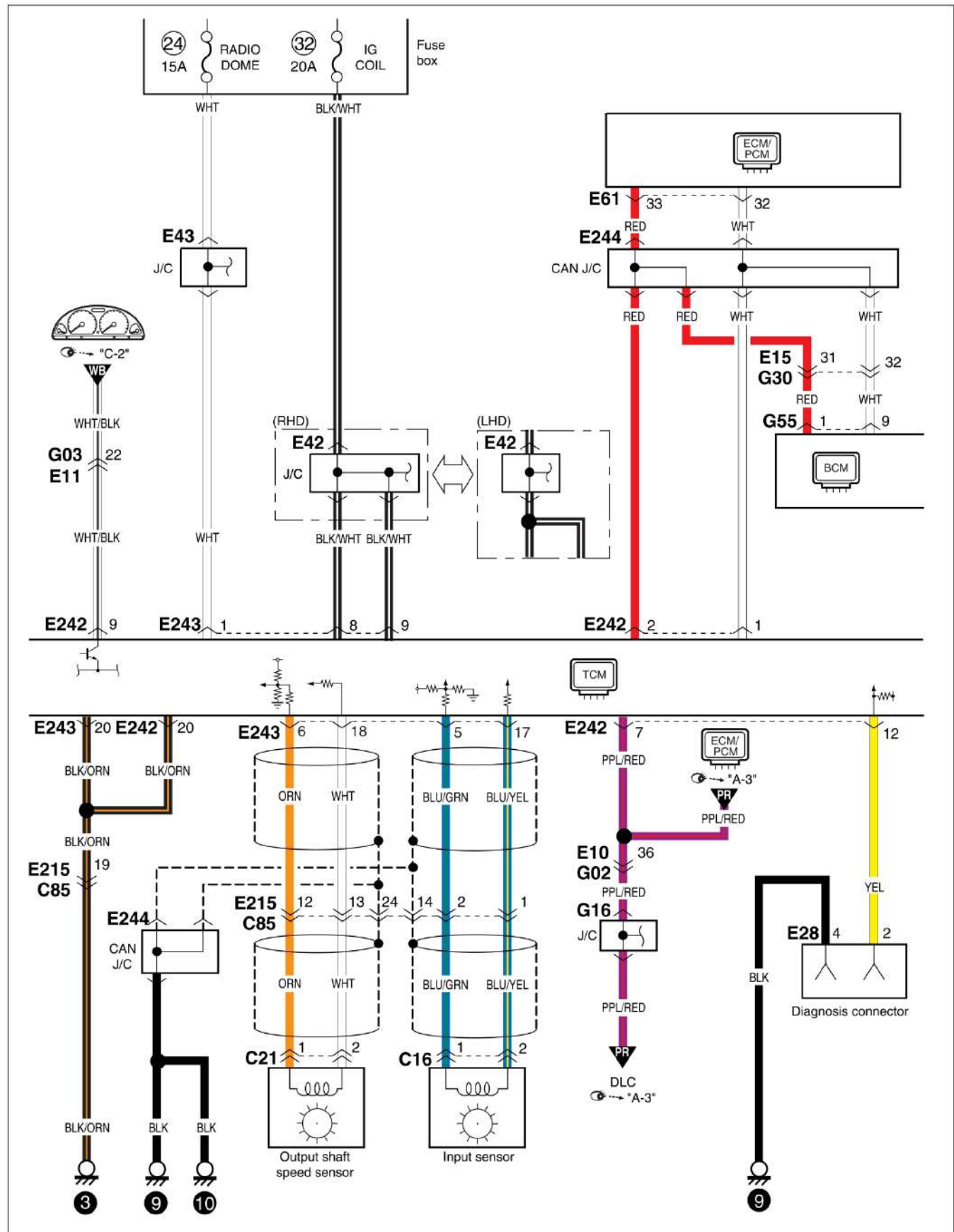
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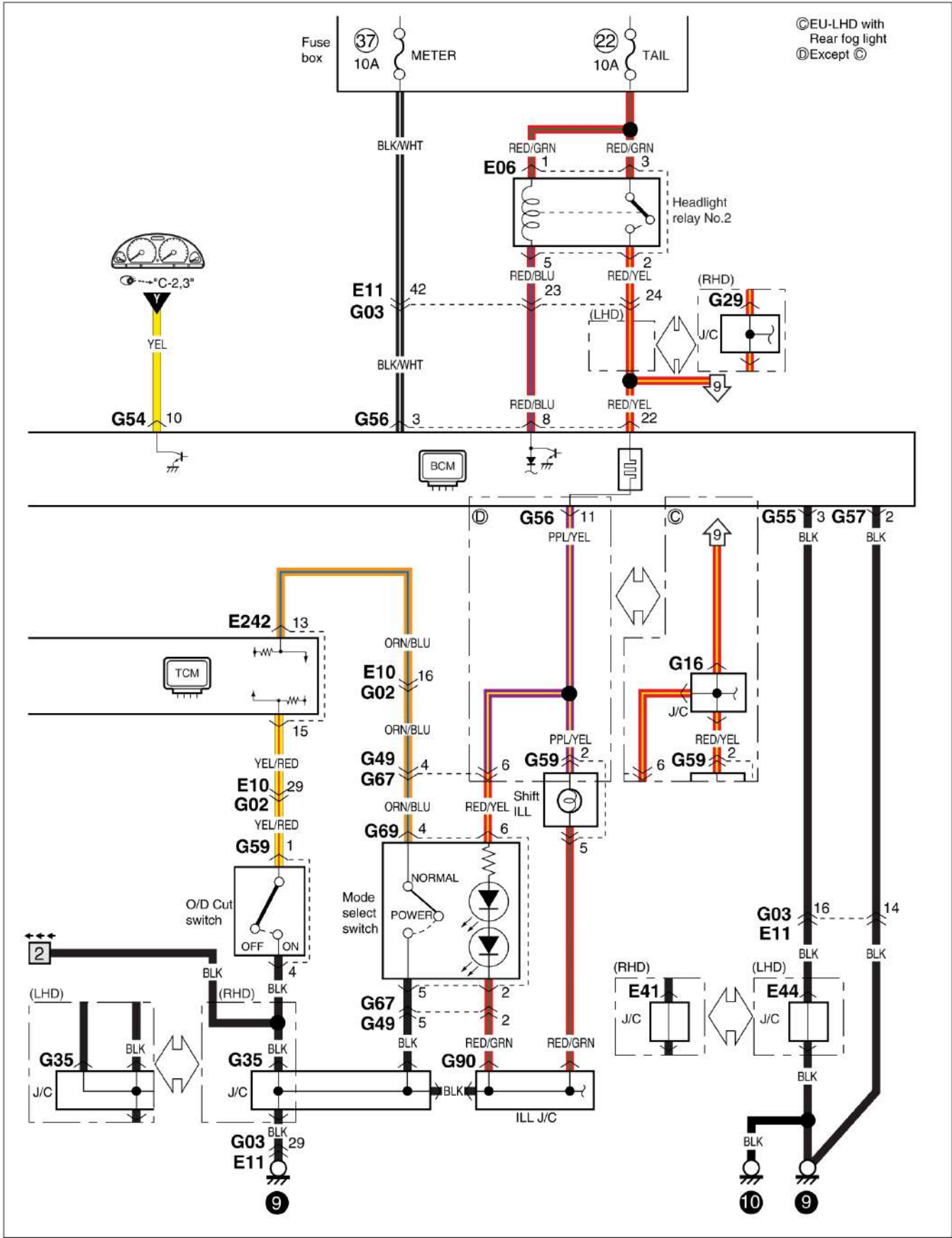
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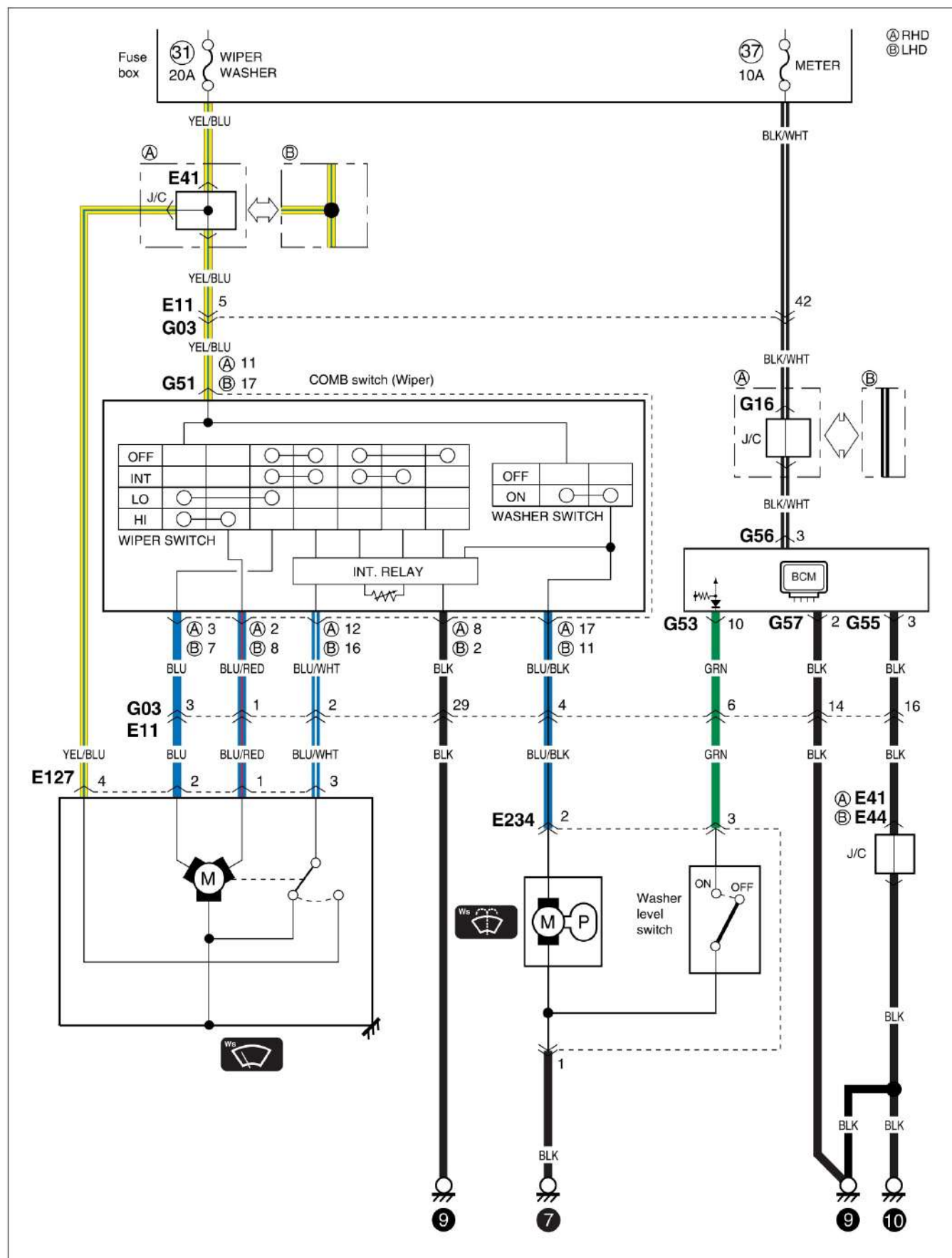
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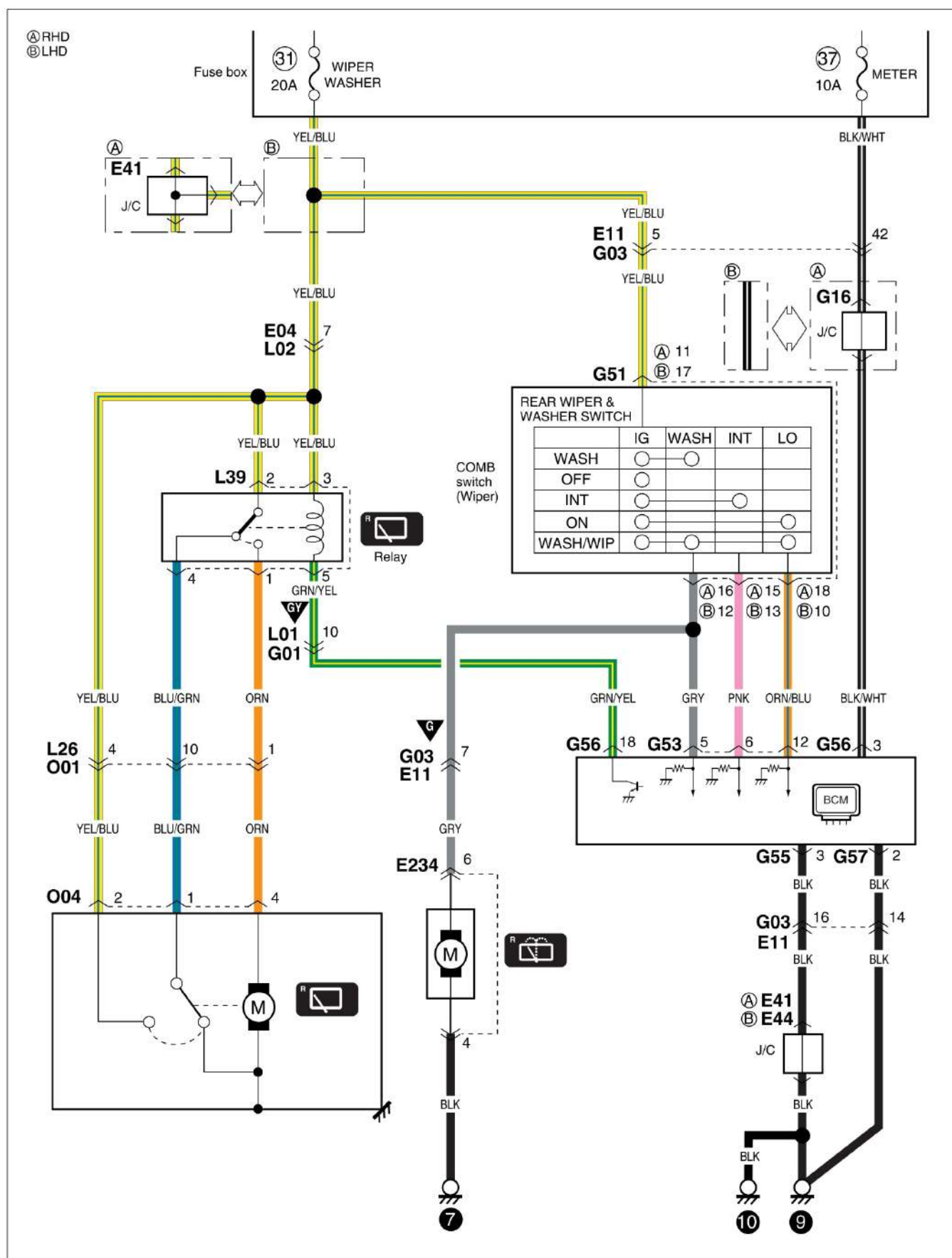
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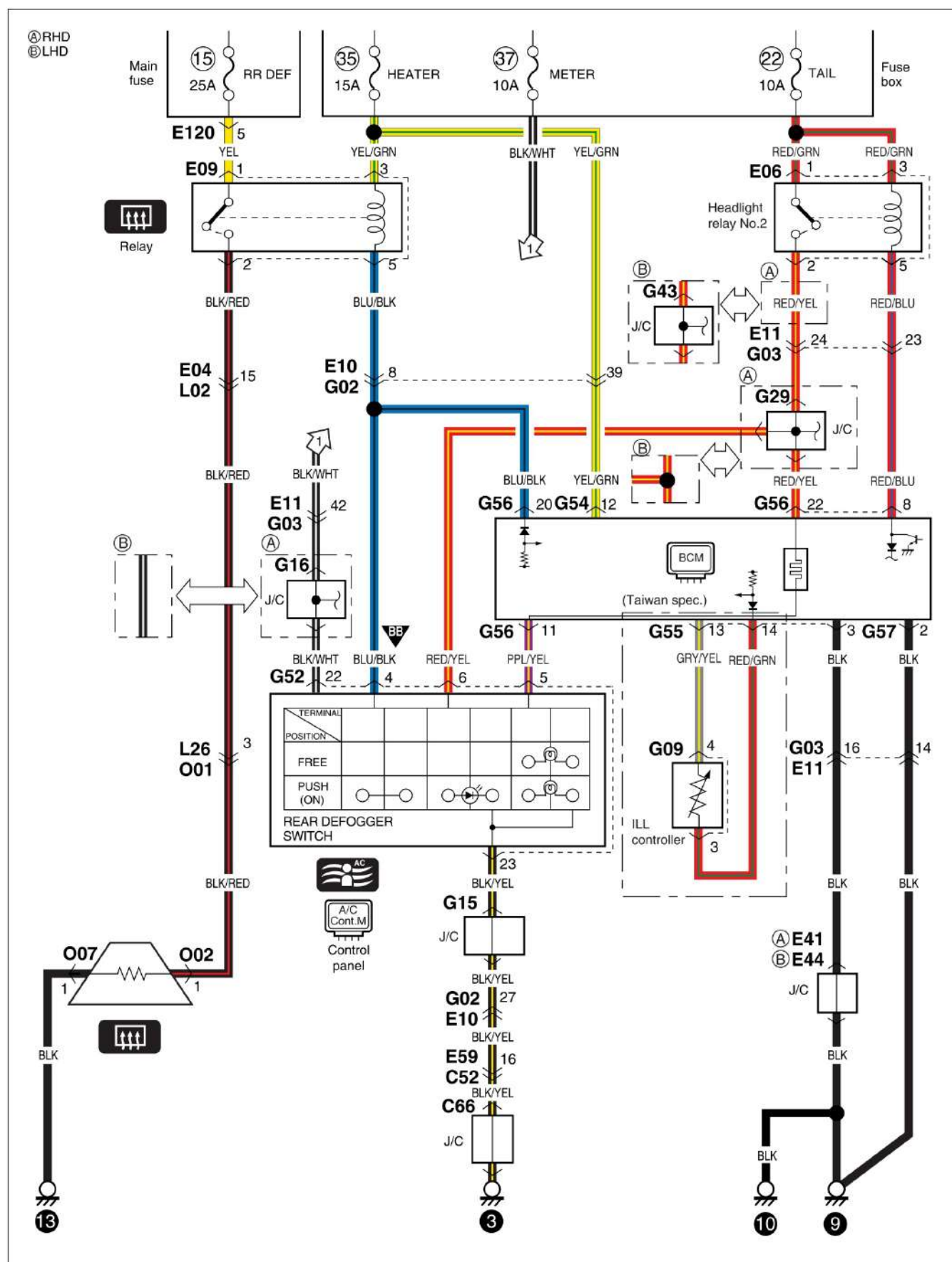


B-2 Wind shield wiper and washer

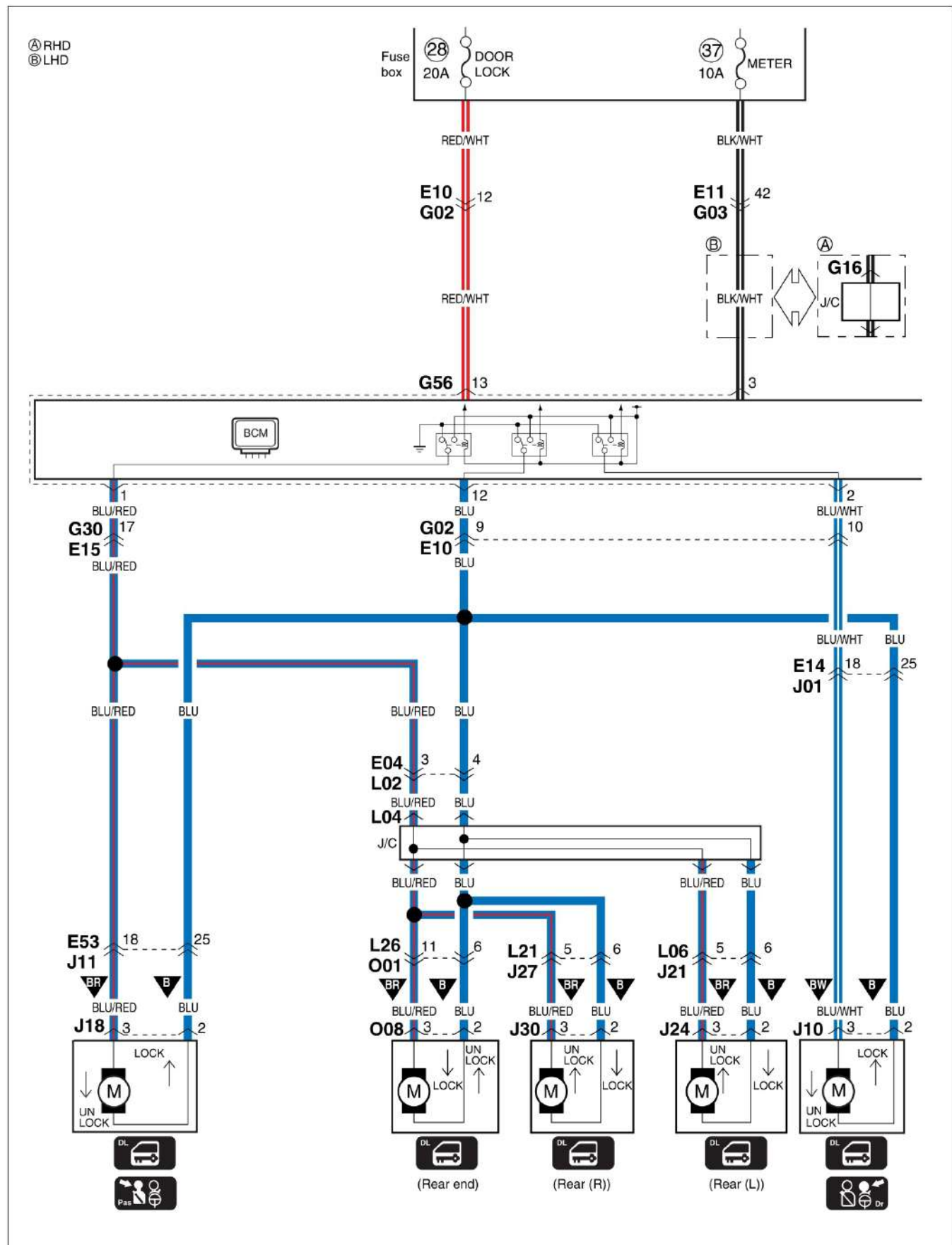


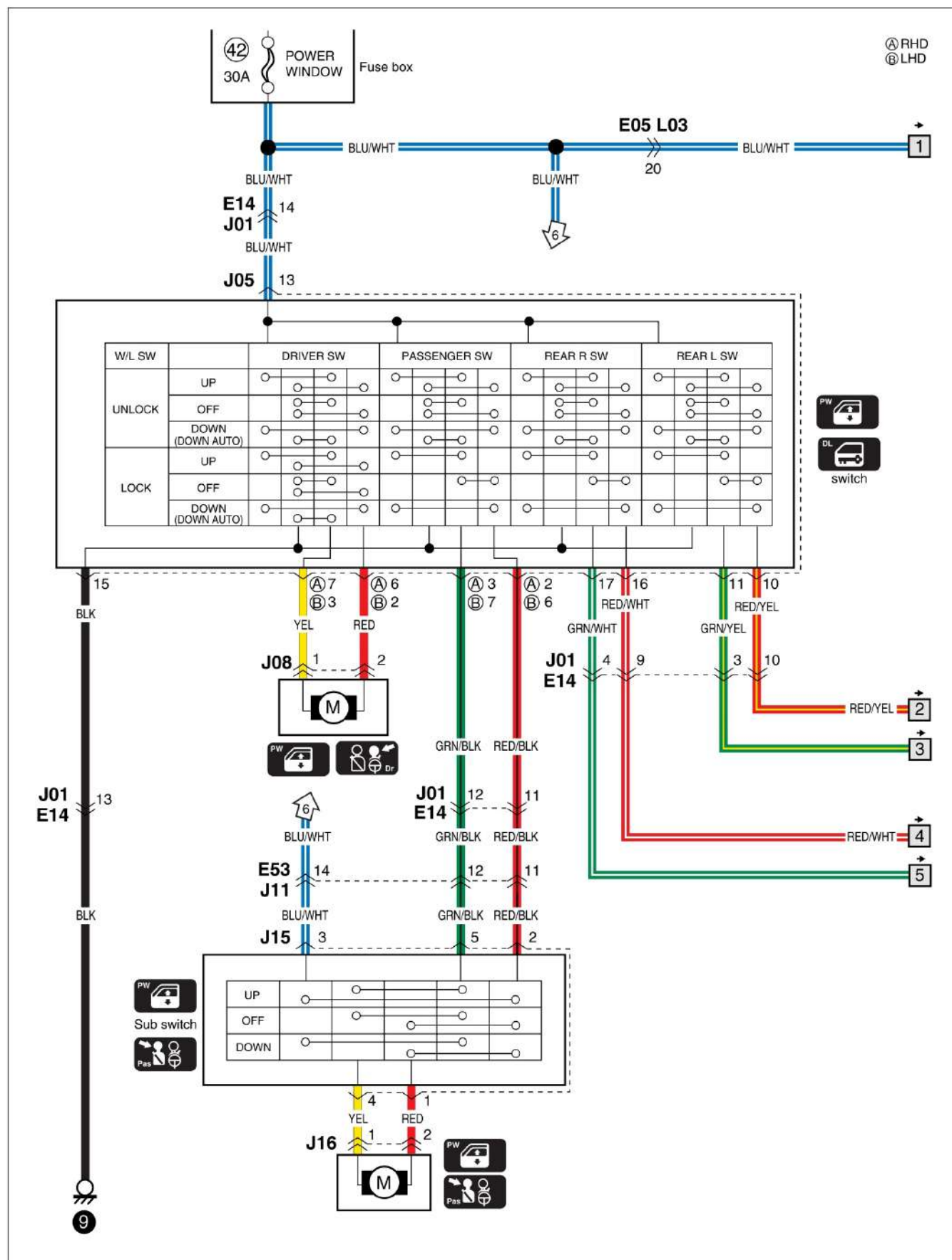
B-3 Rear wiper and washer

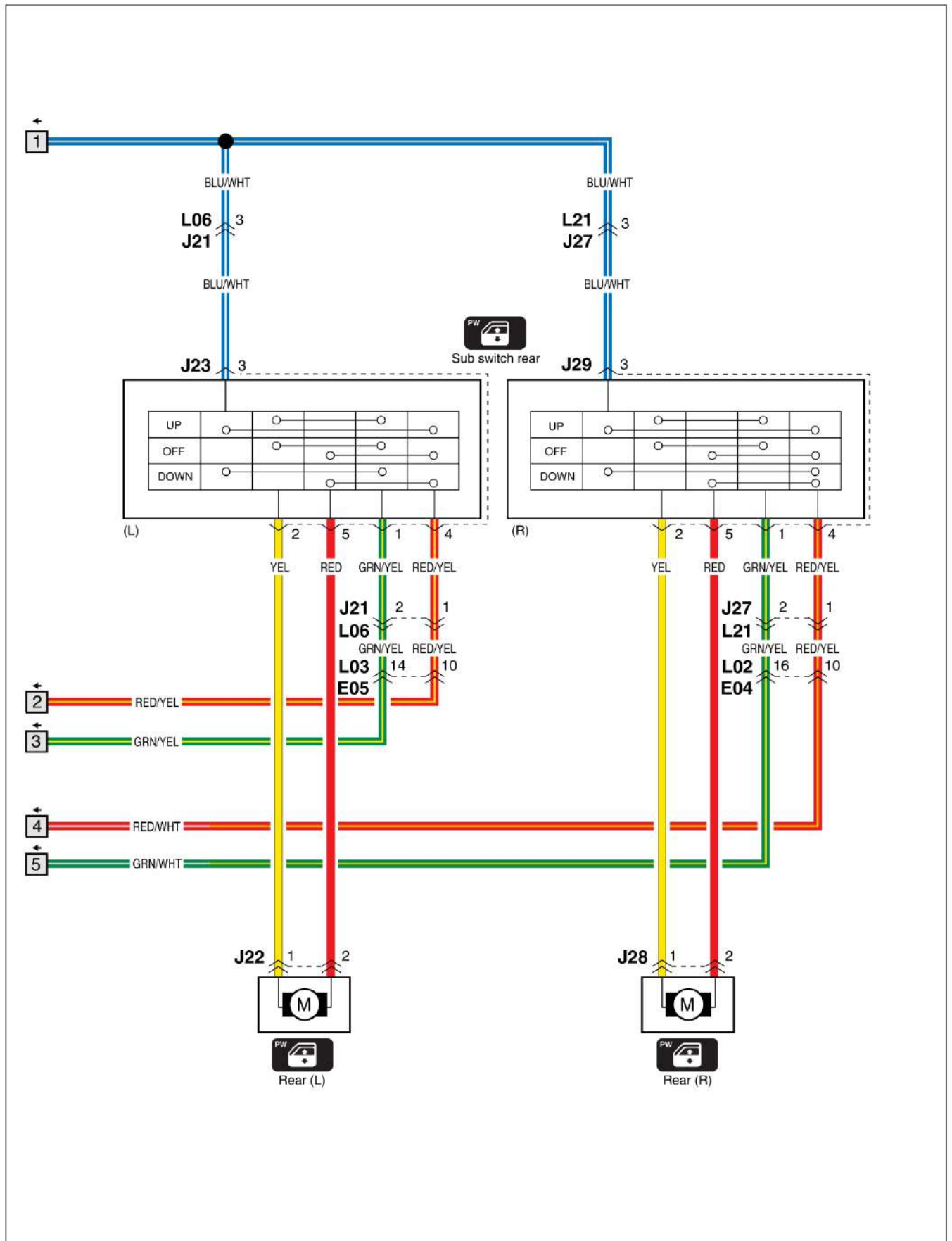




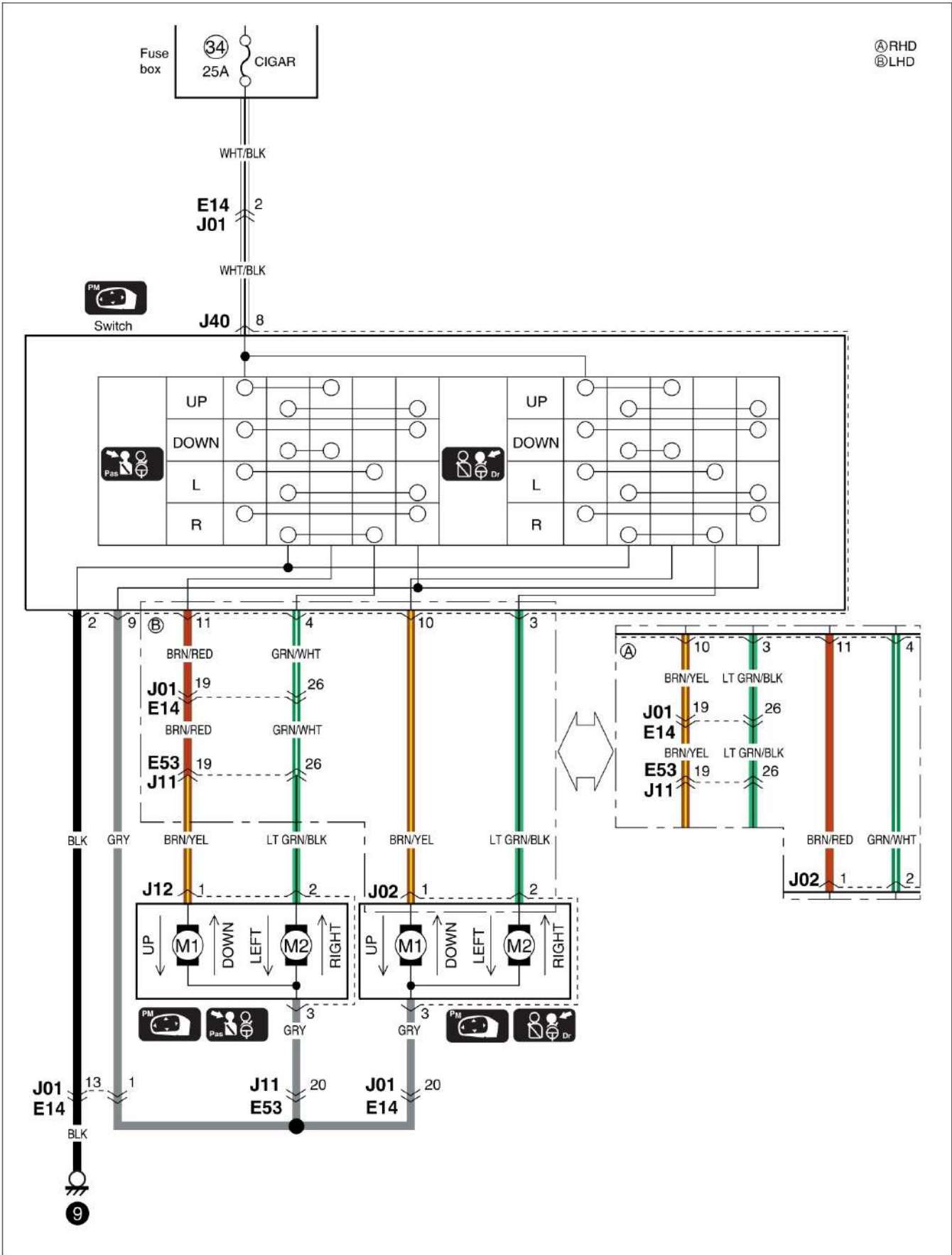
B-5 Power door lock

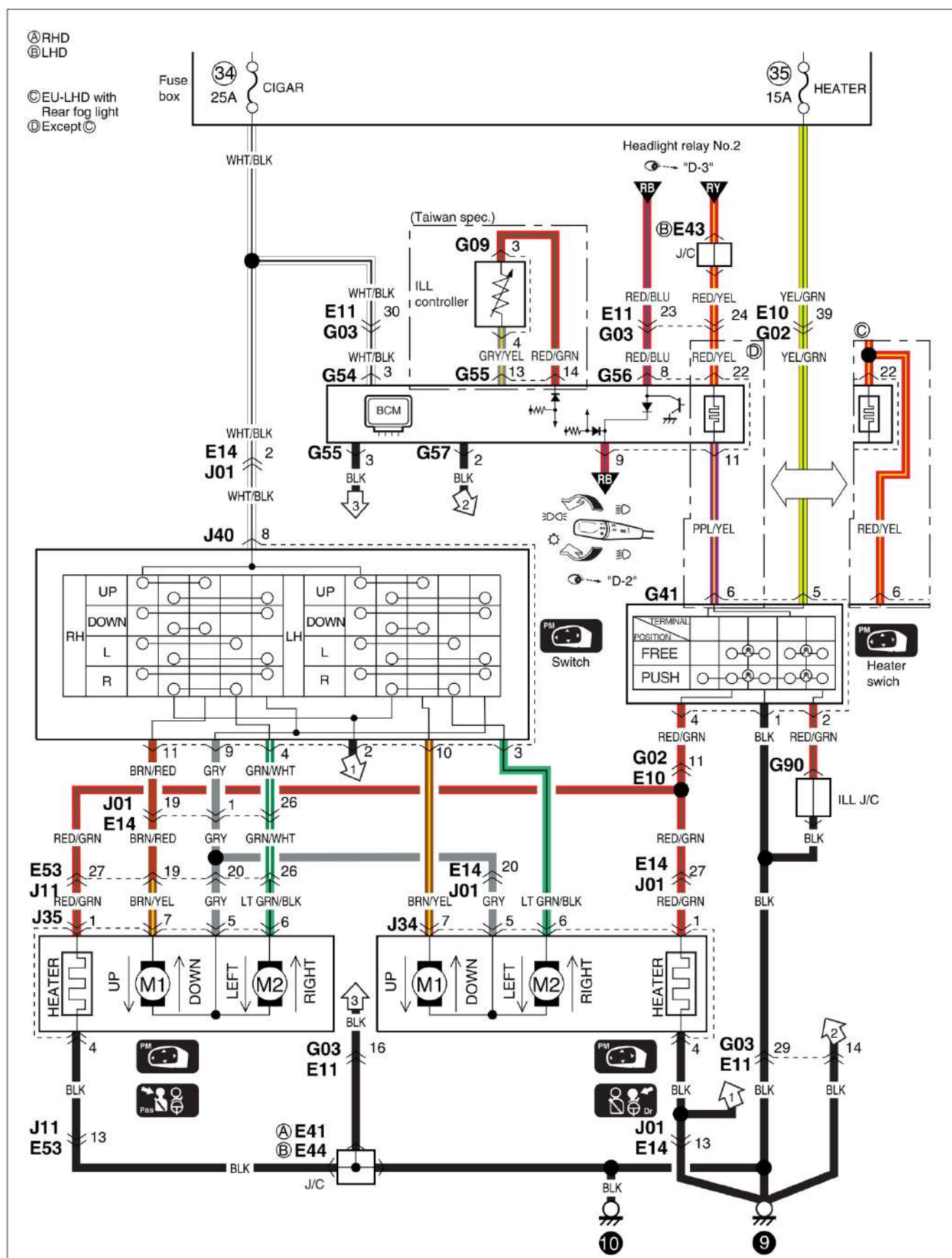




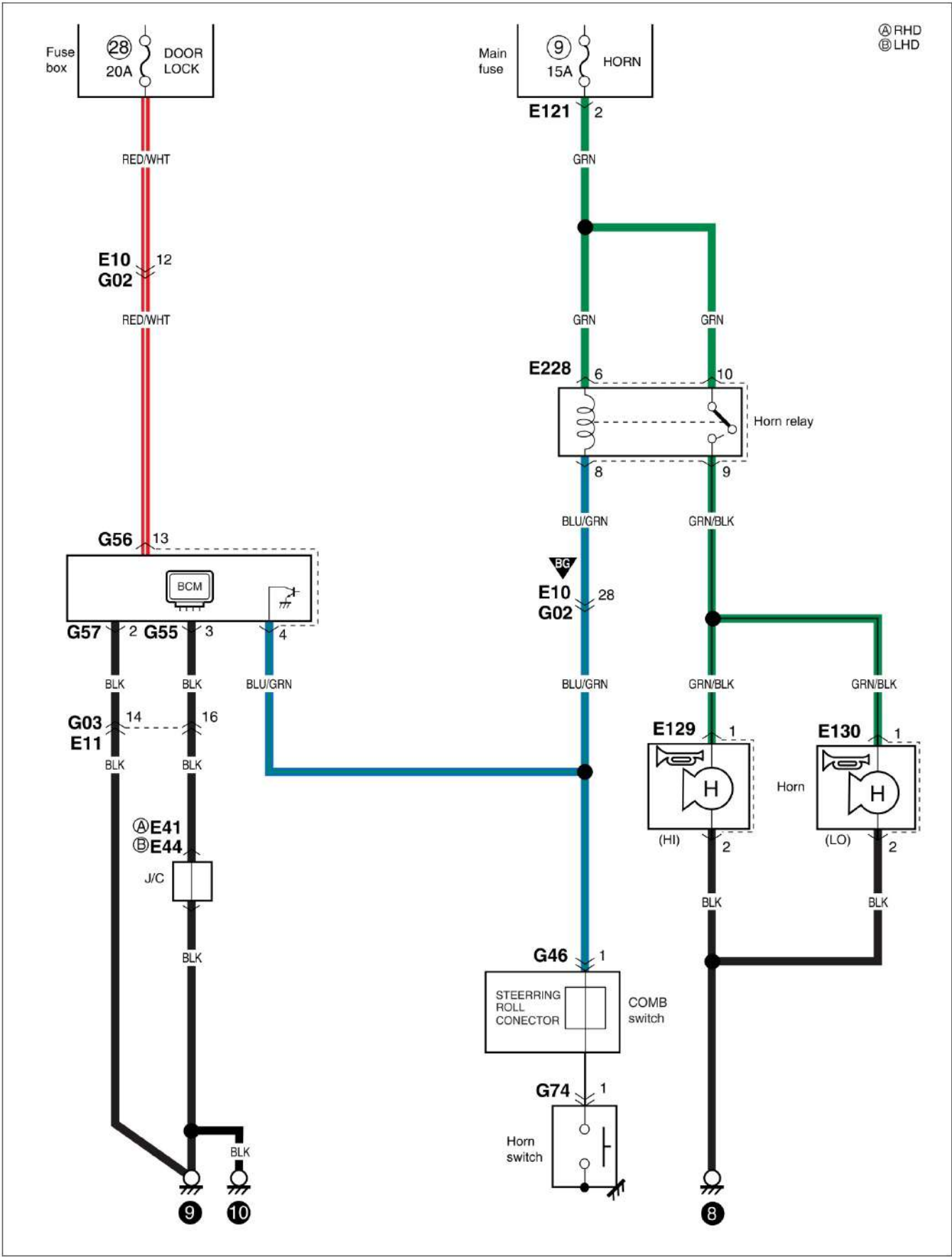


B-7 Remote controller mirror (Without Heater)

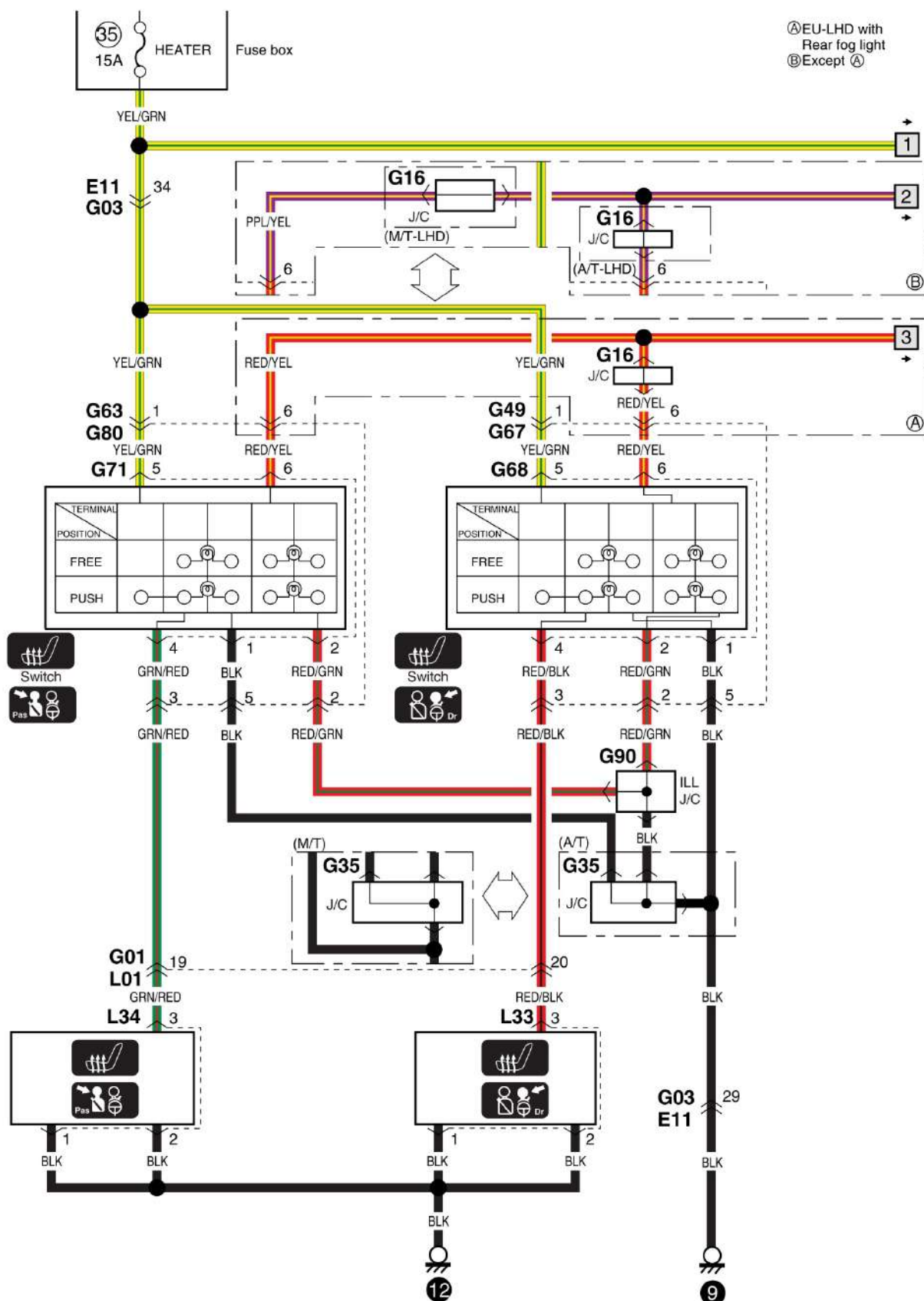


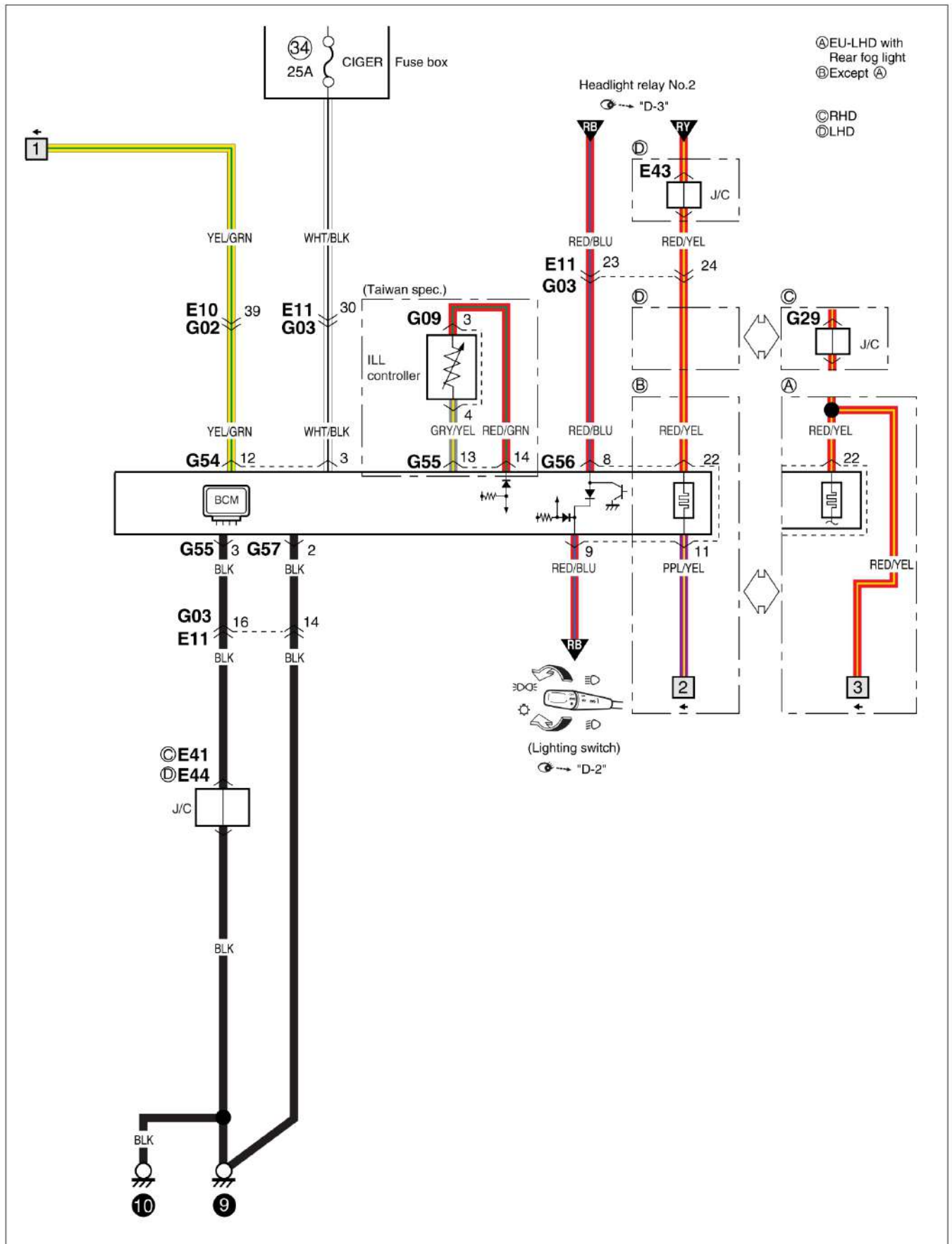


B-8 Horn

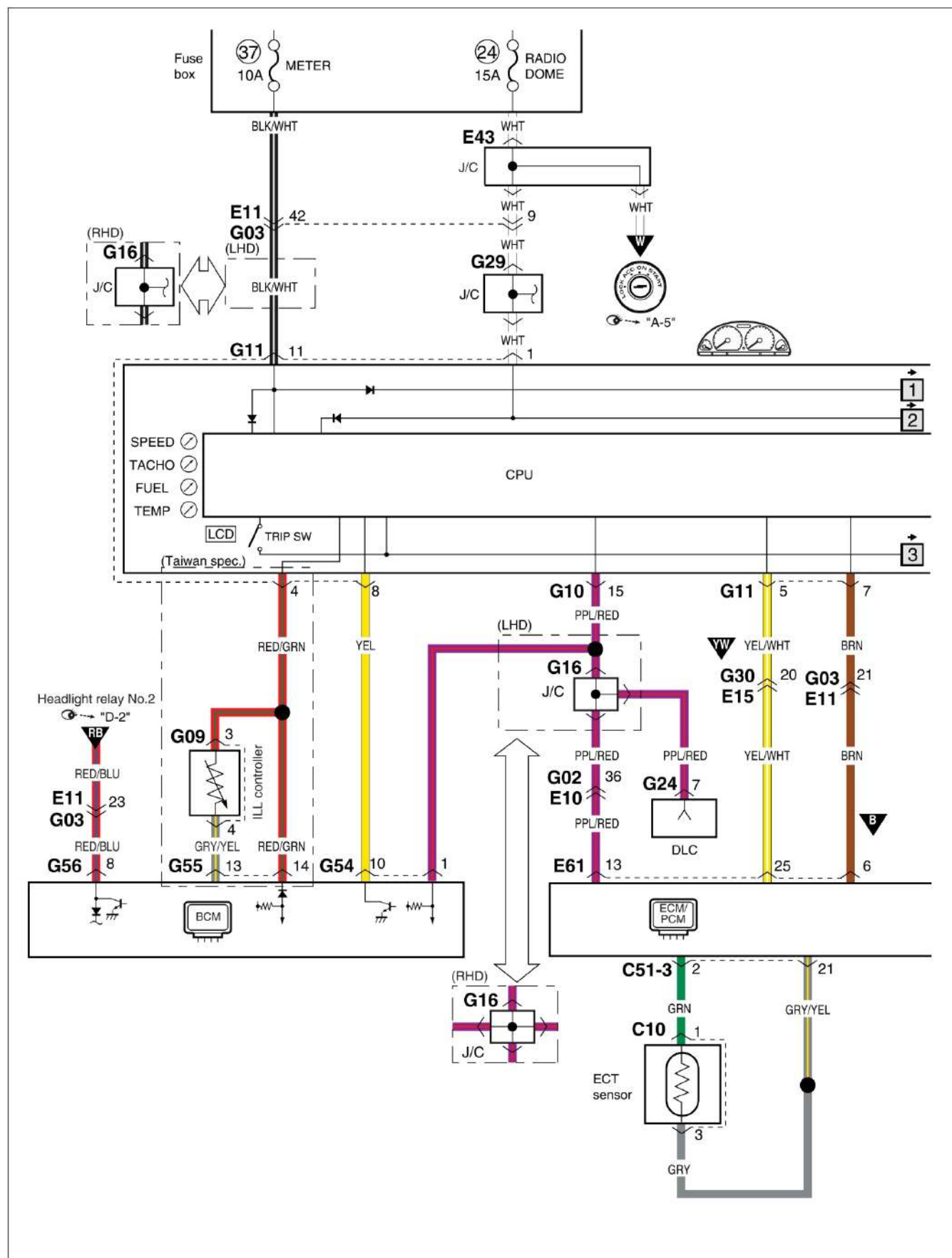


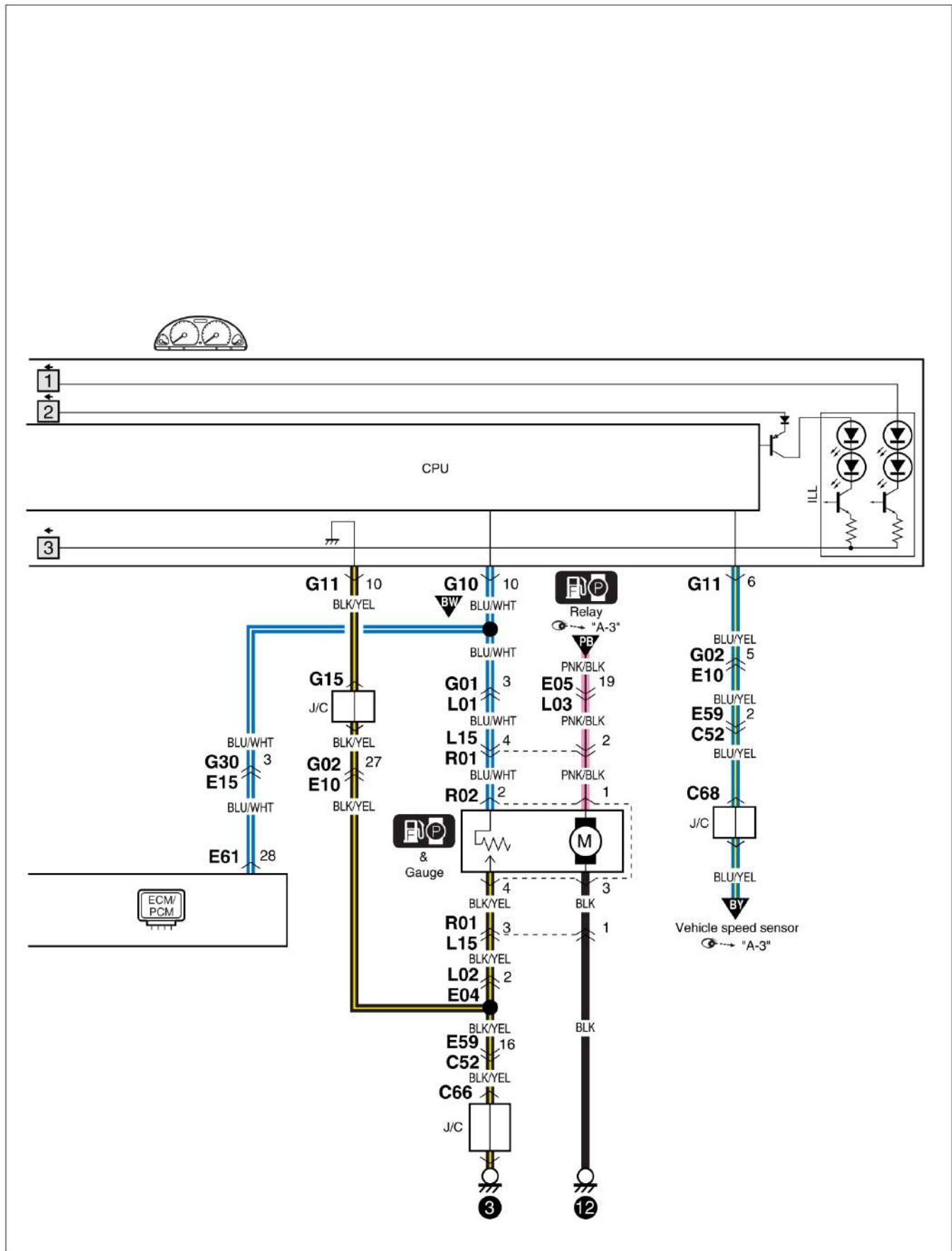
B-9 Seat heater

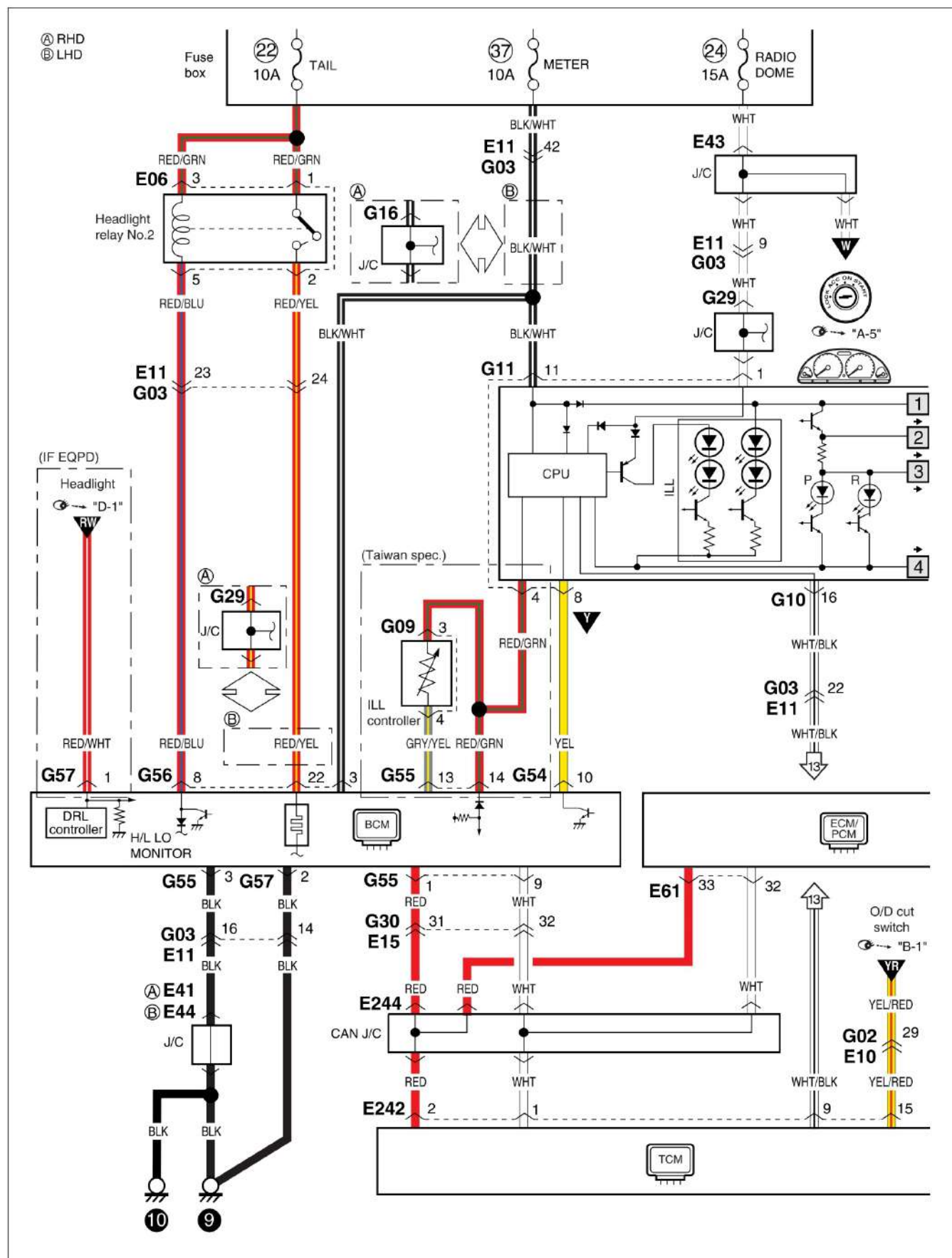


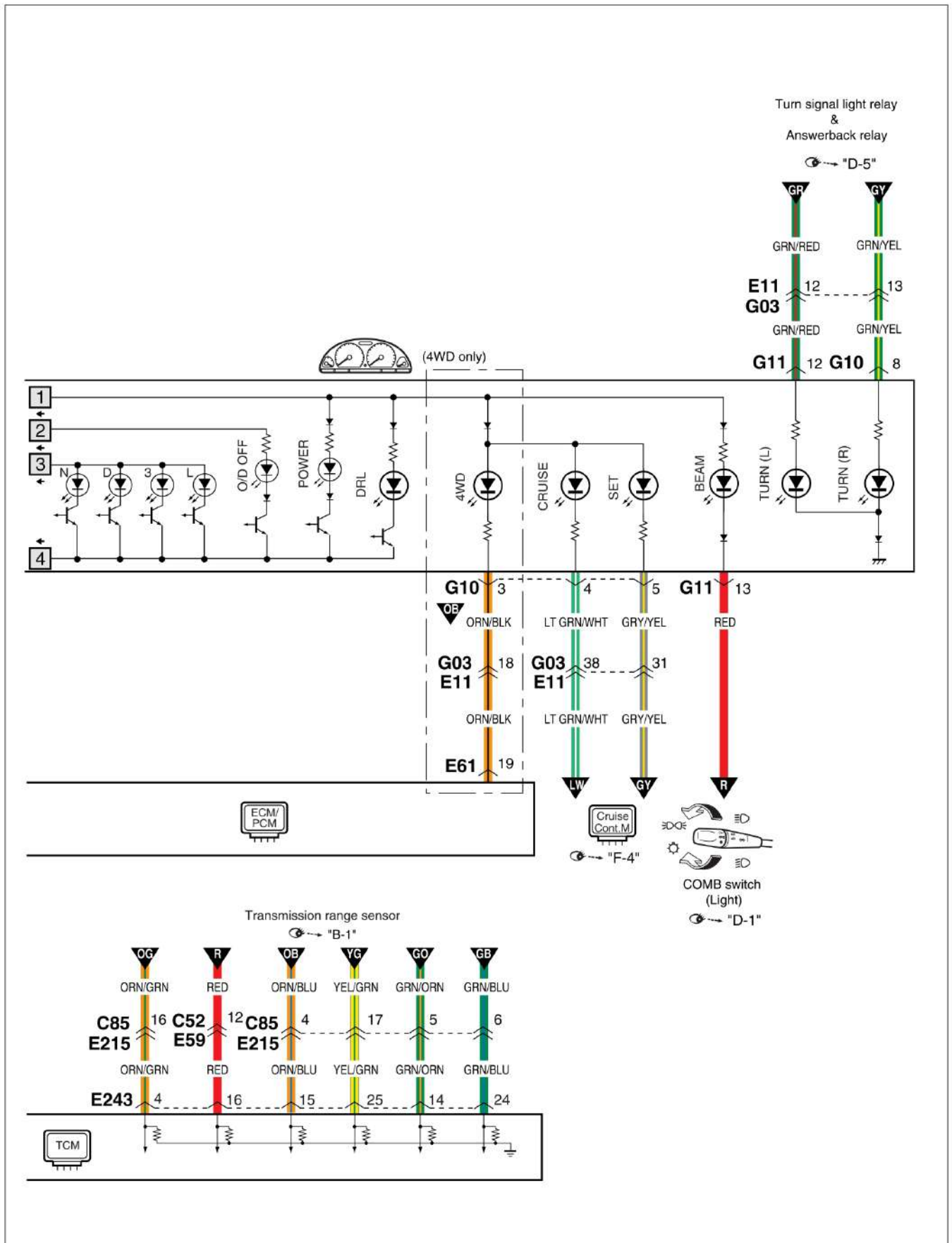


C-1 Combination meter (Meter)

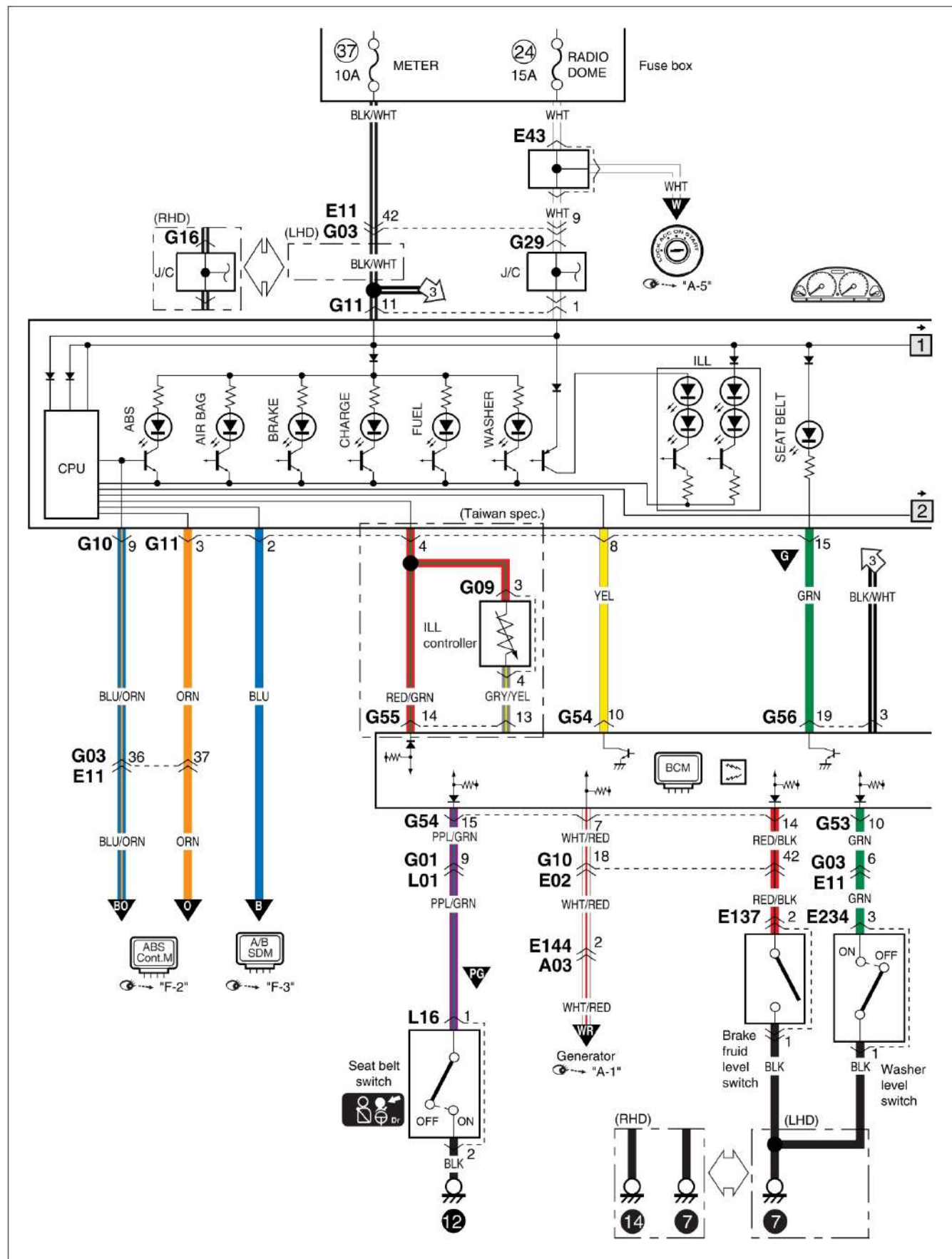


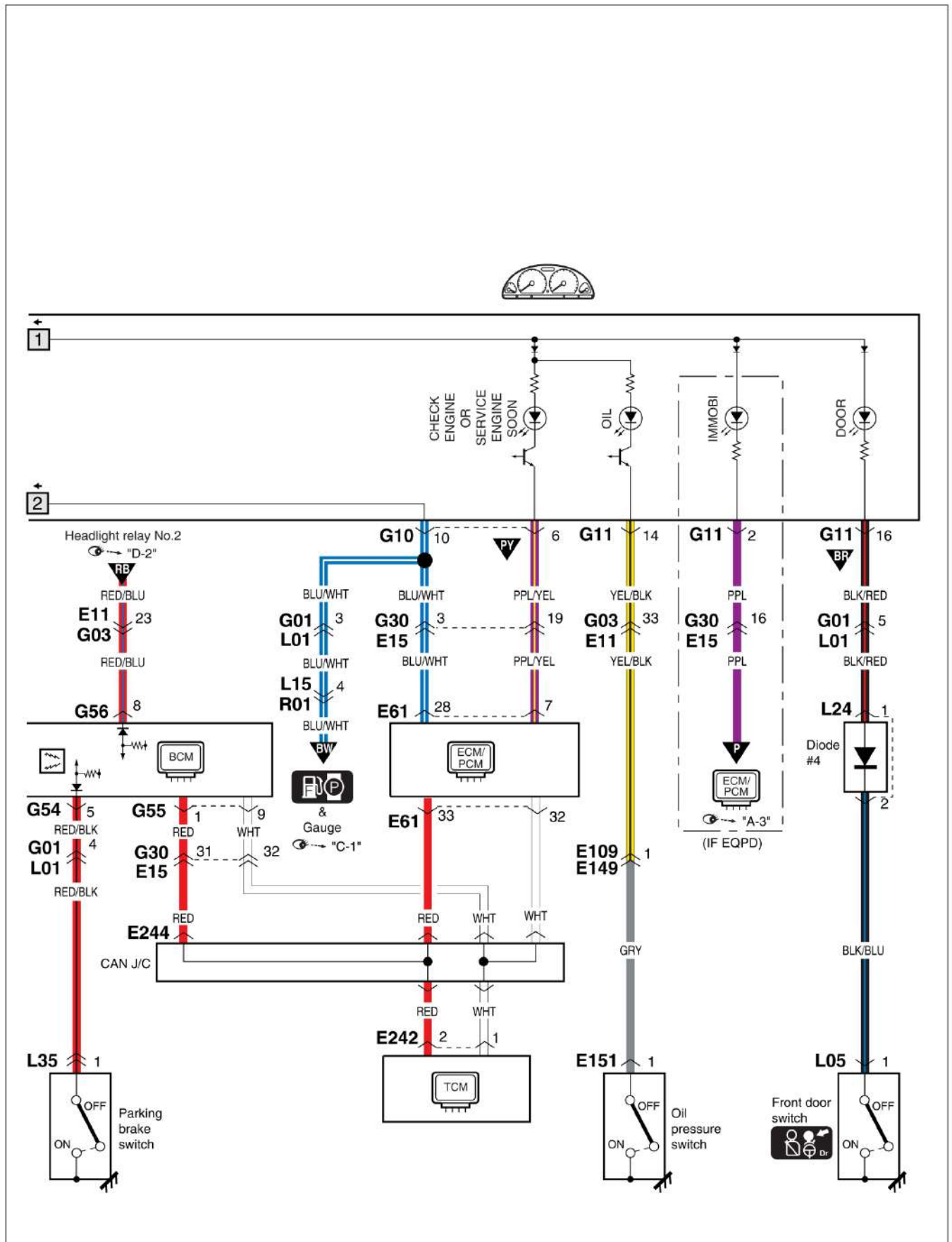




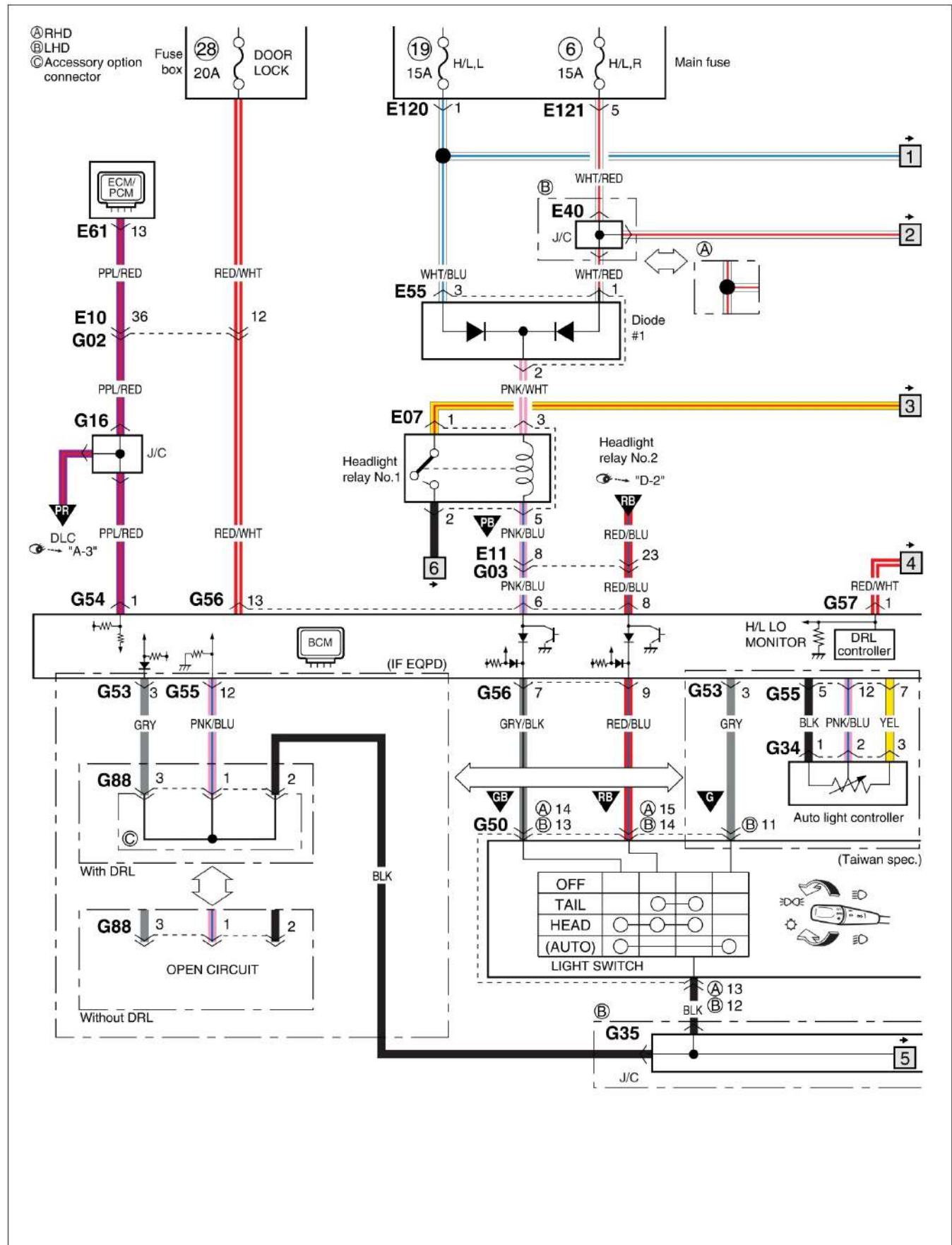


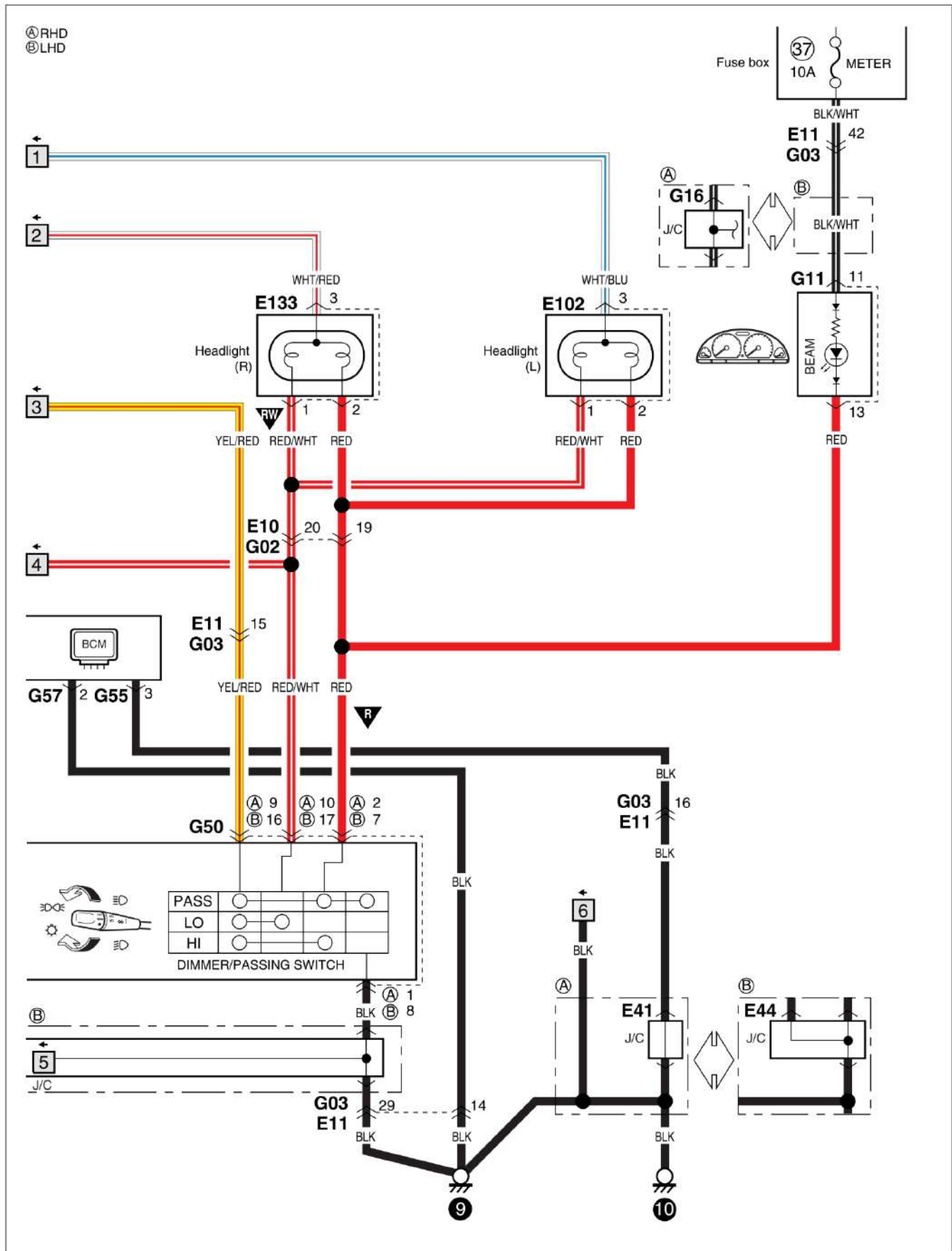
C-3 Combination meter (Warning lamp)



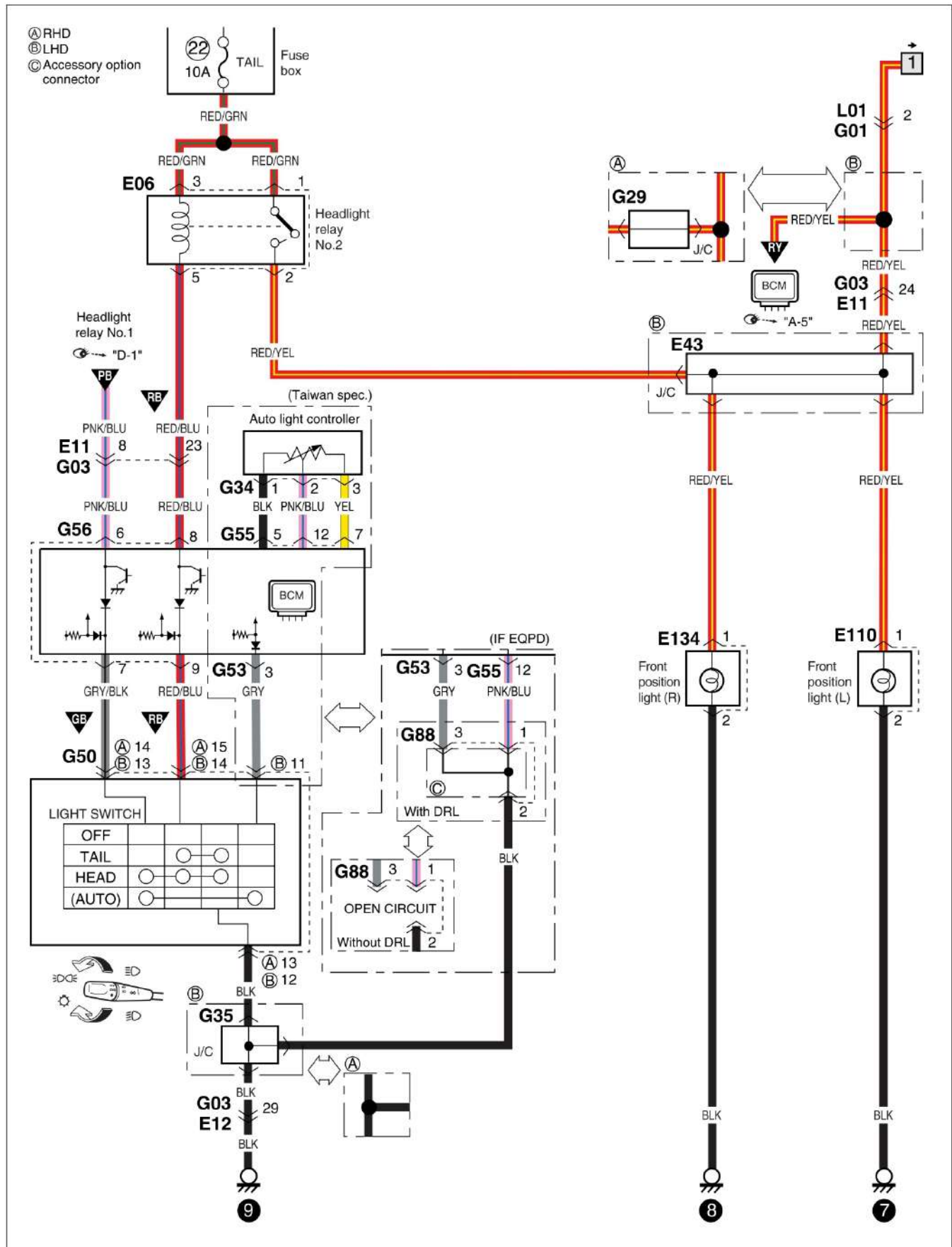


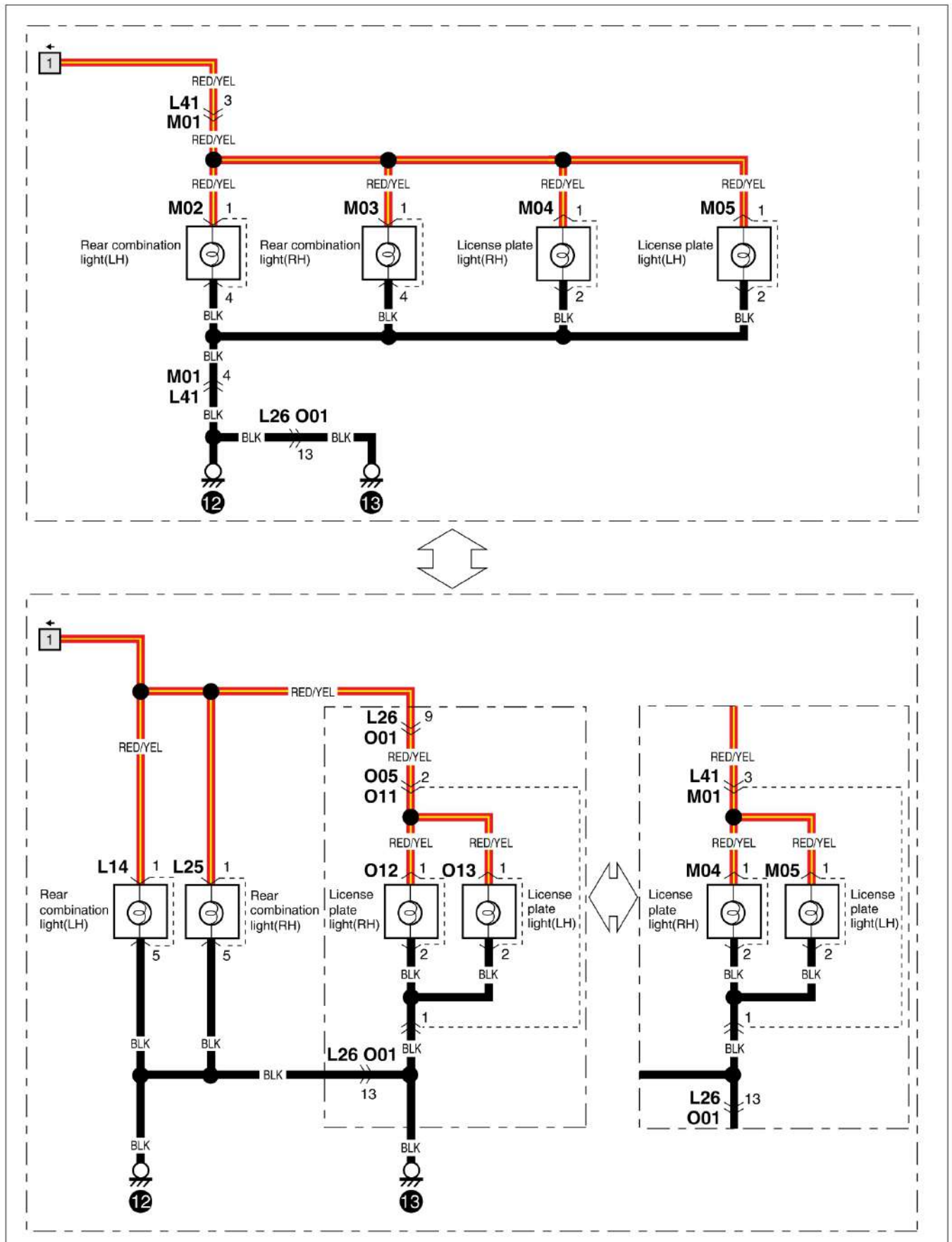
D-1 Headlight system



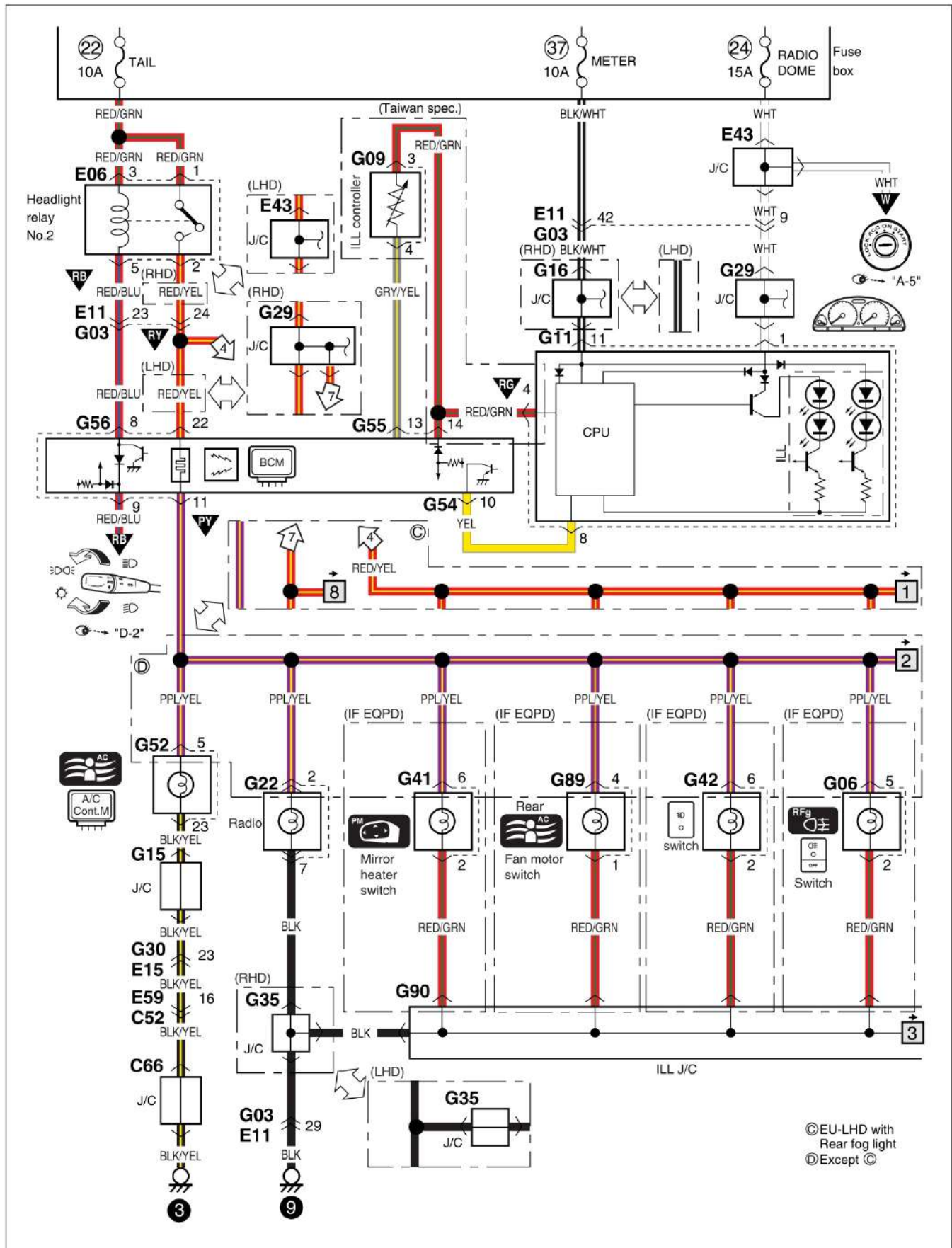


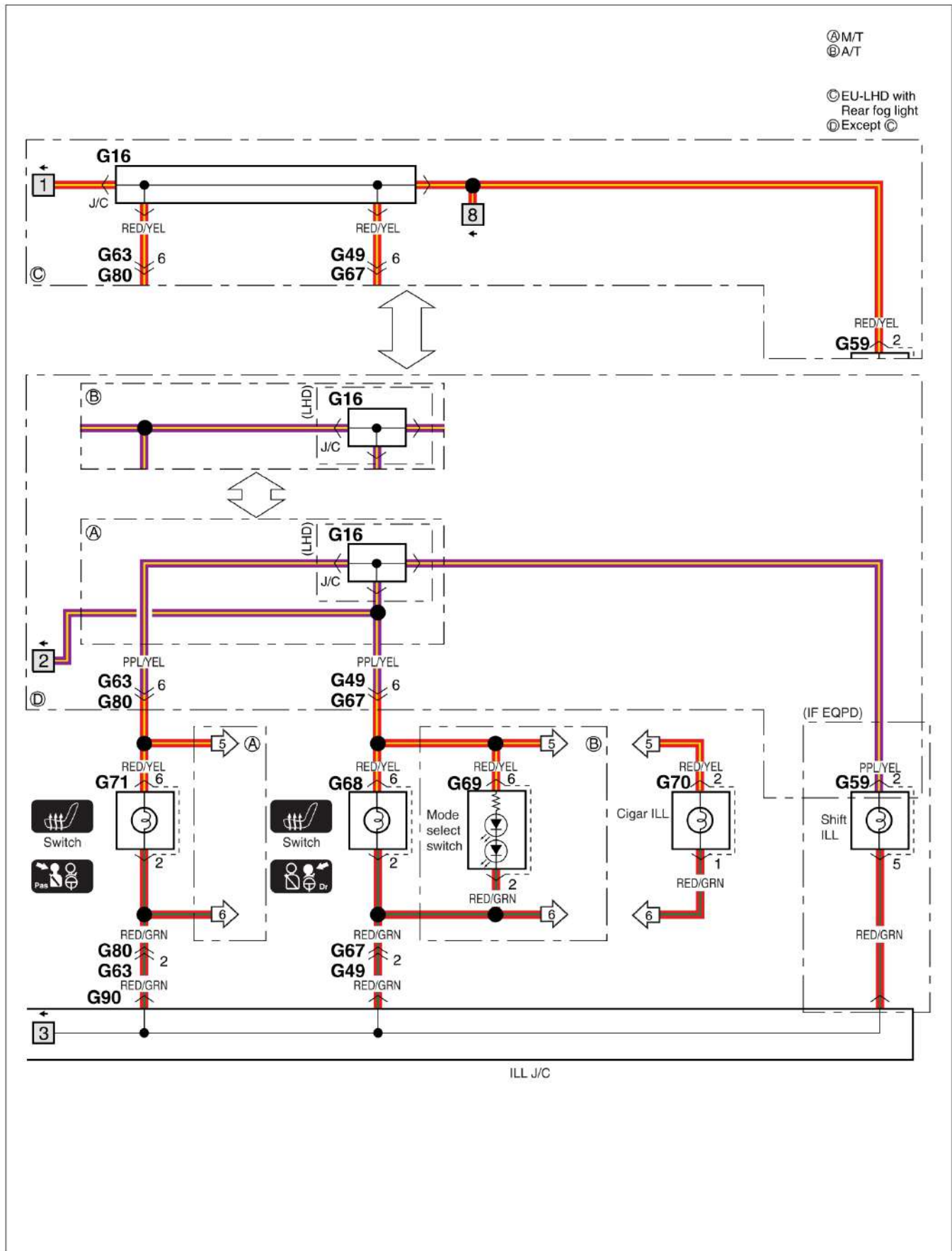
D-2 Clearance, tail and license plate light



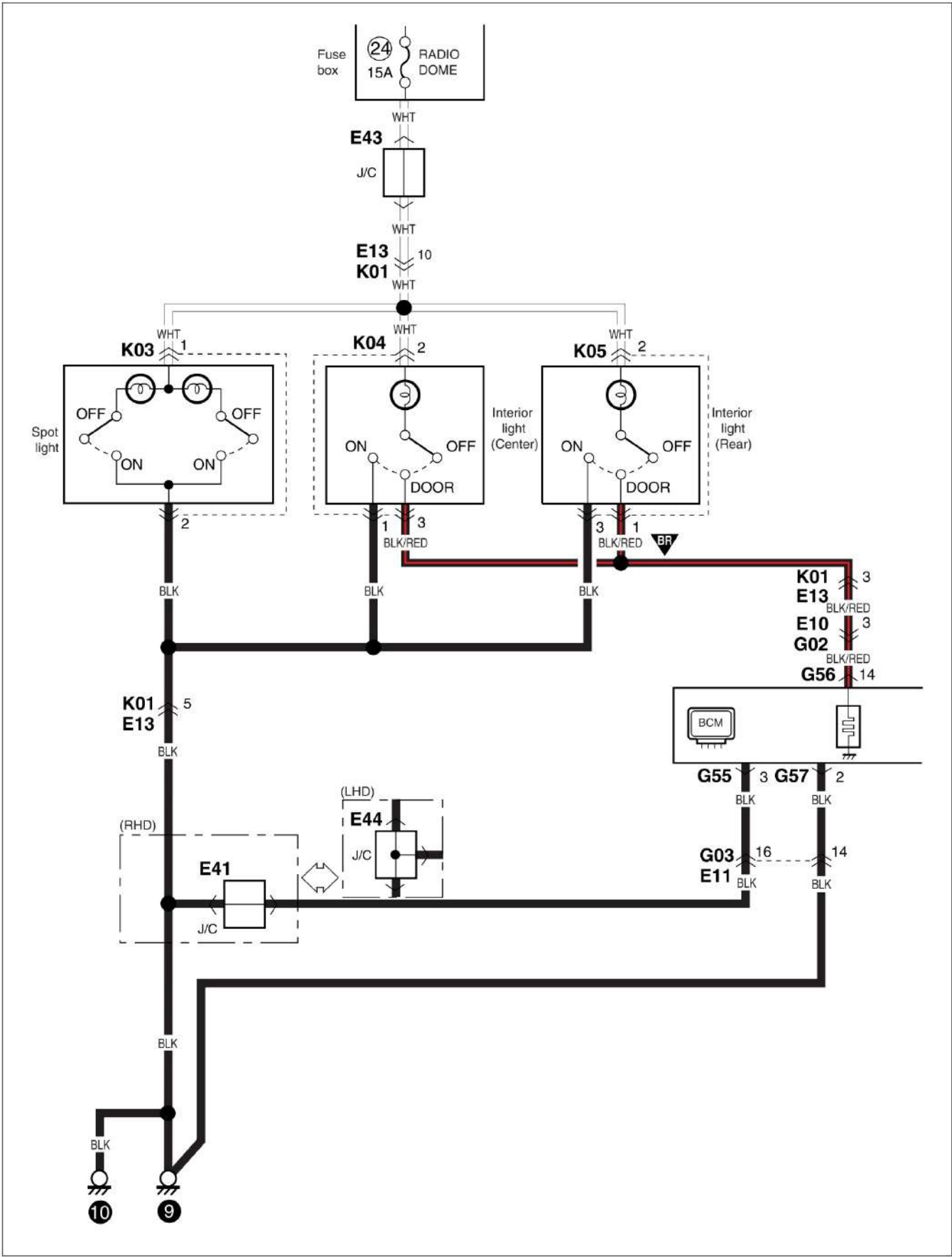


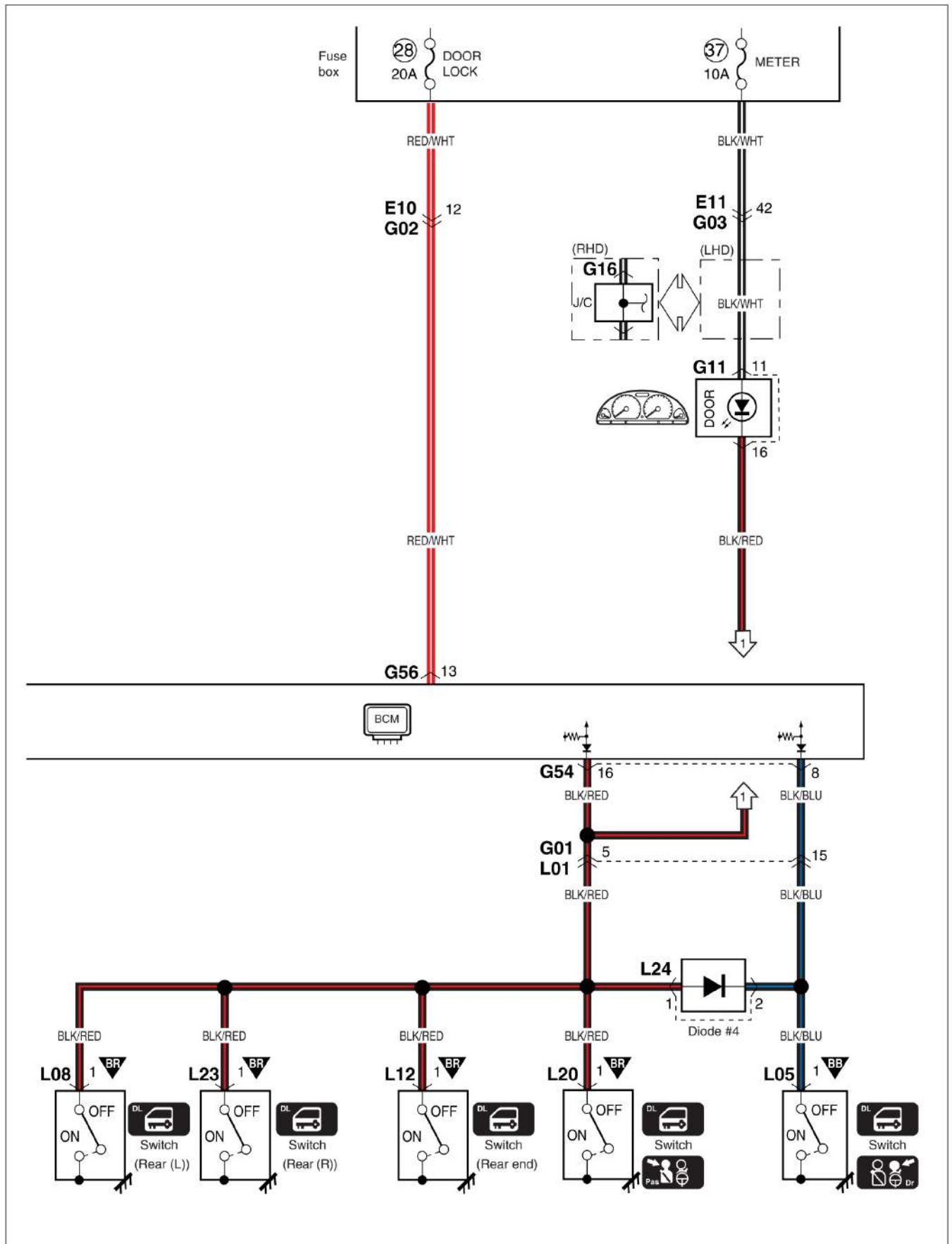
D-3 Illumination control system

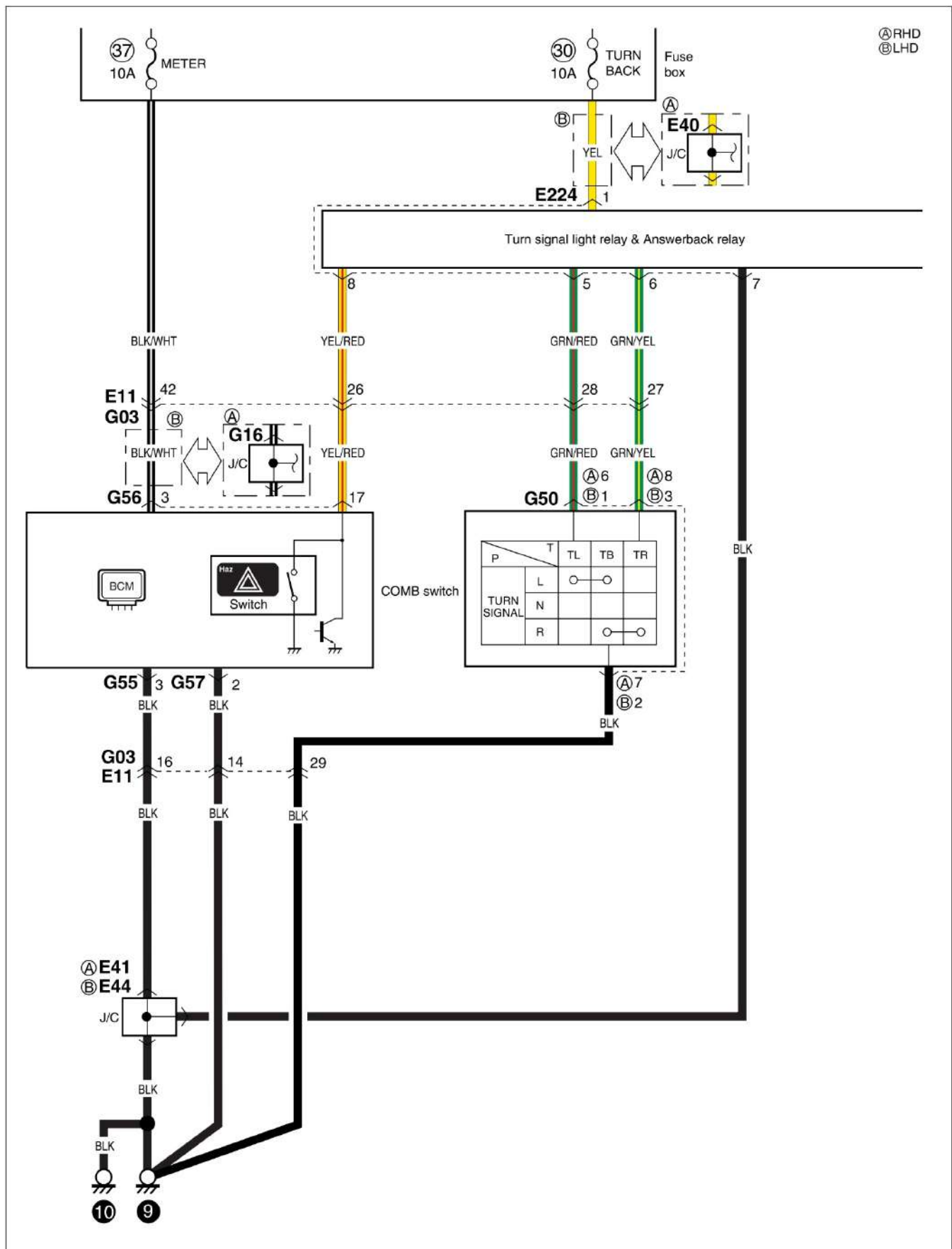


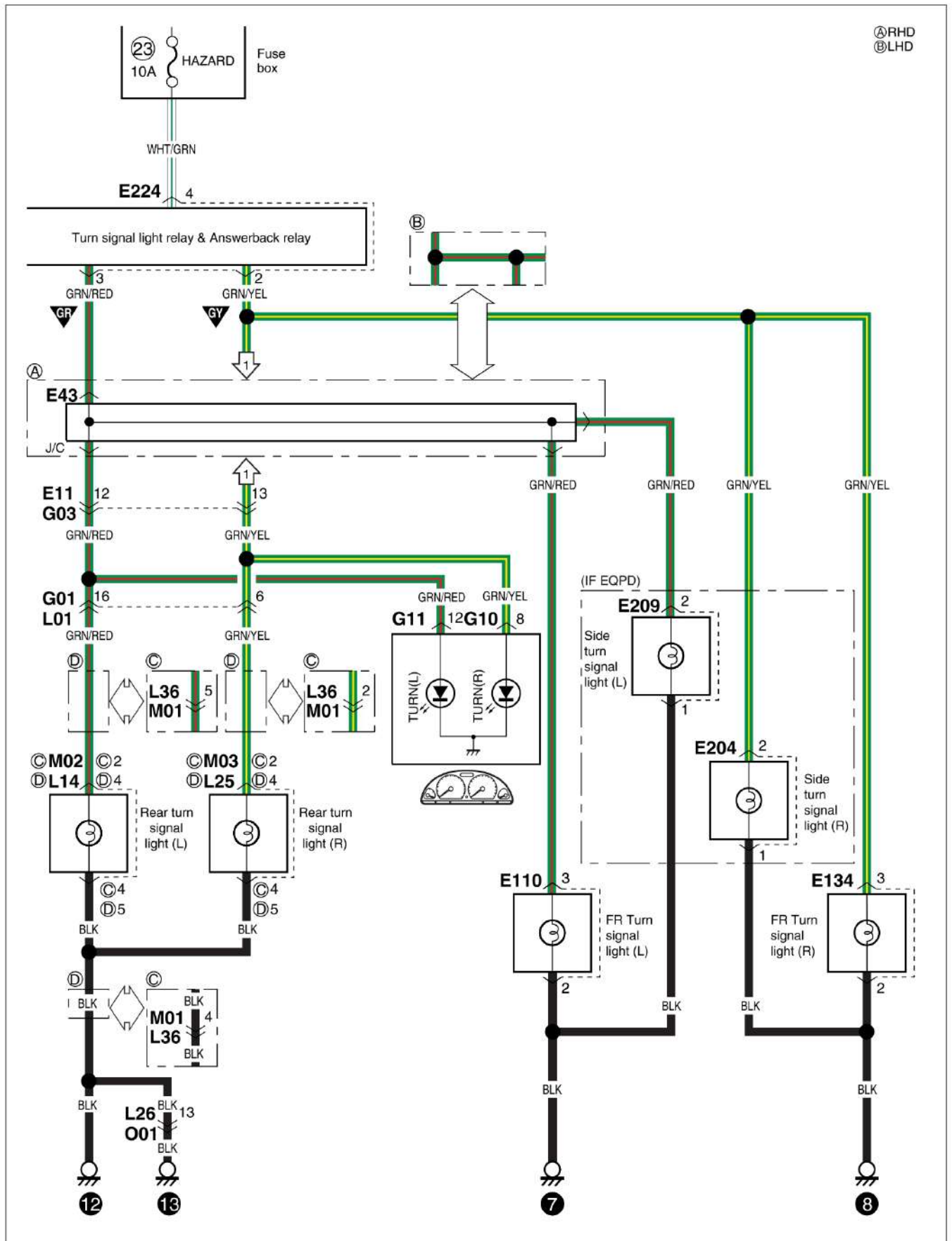


D-4 Interior light

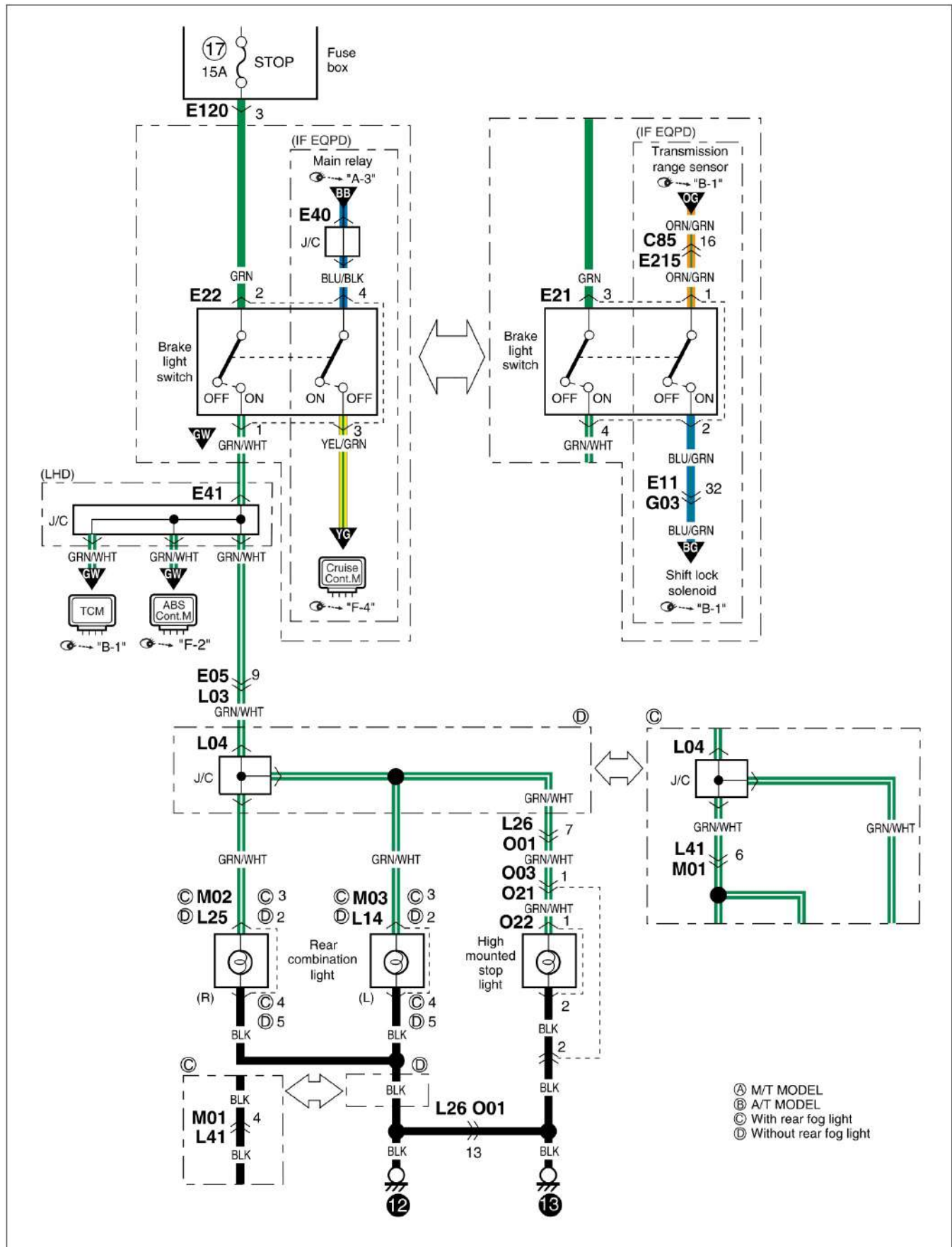




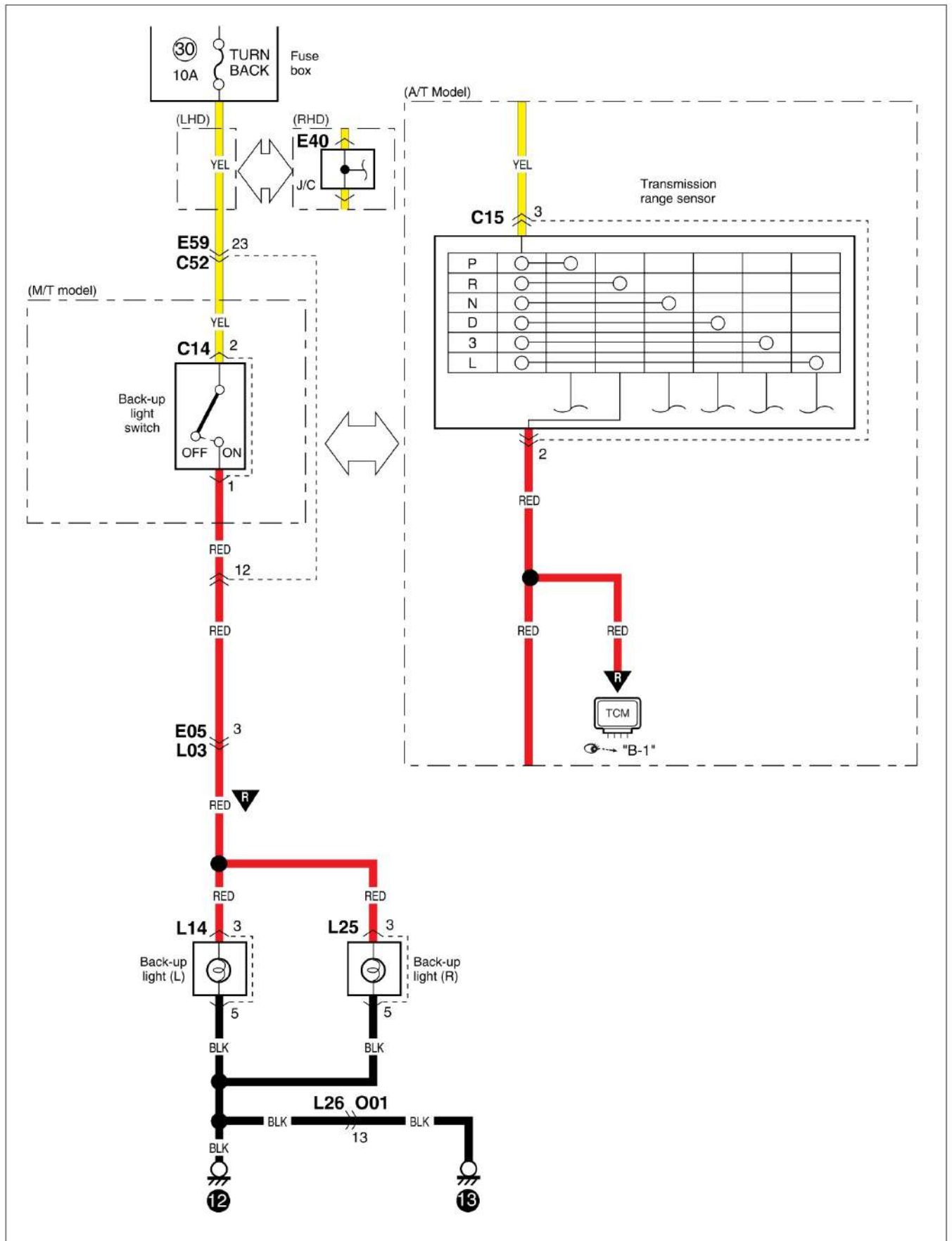




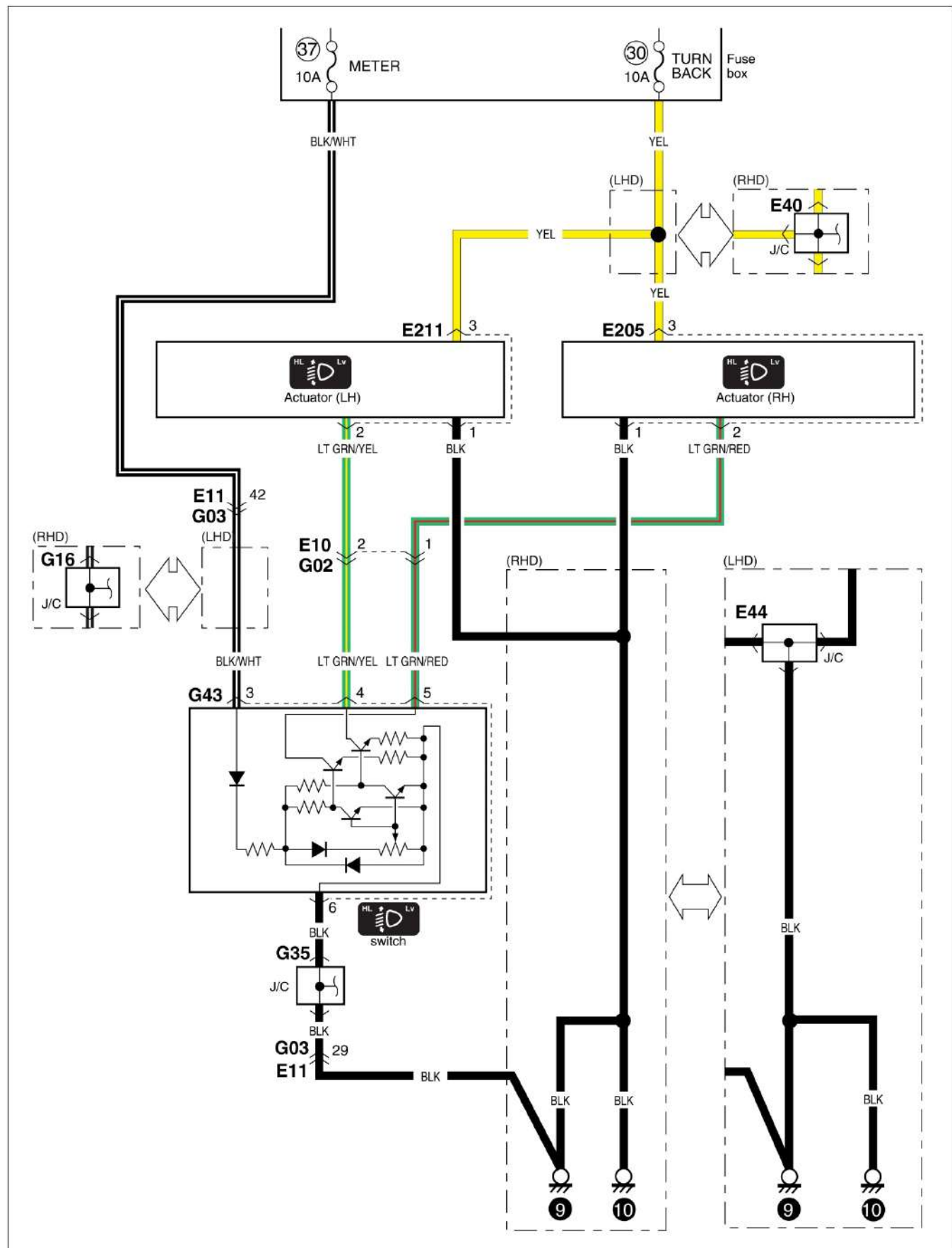
D-6 Brake light

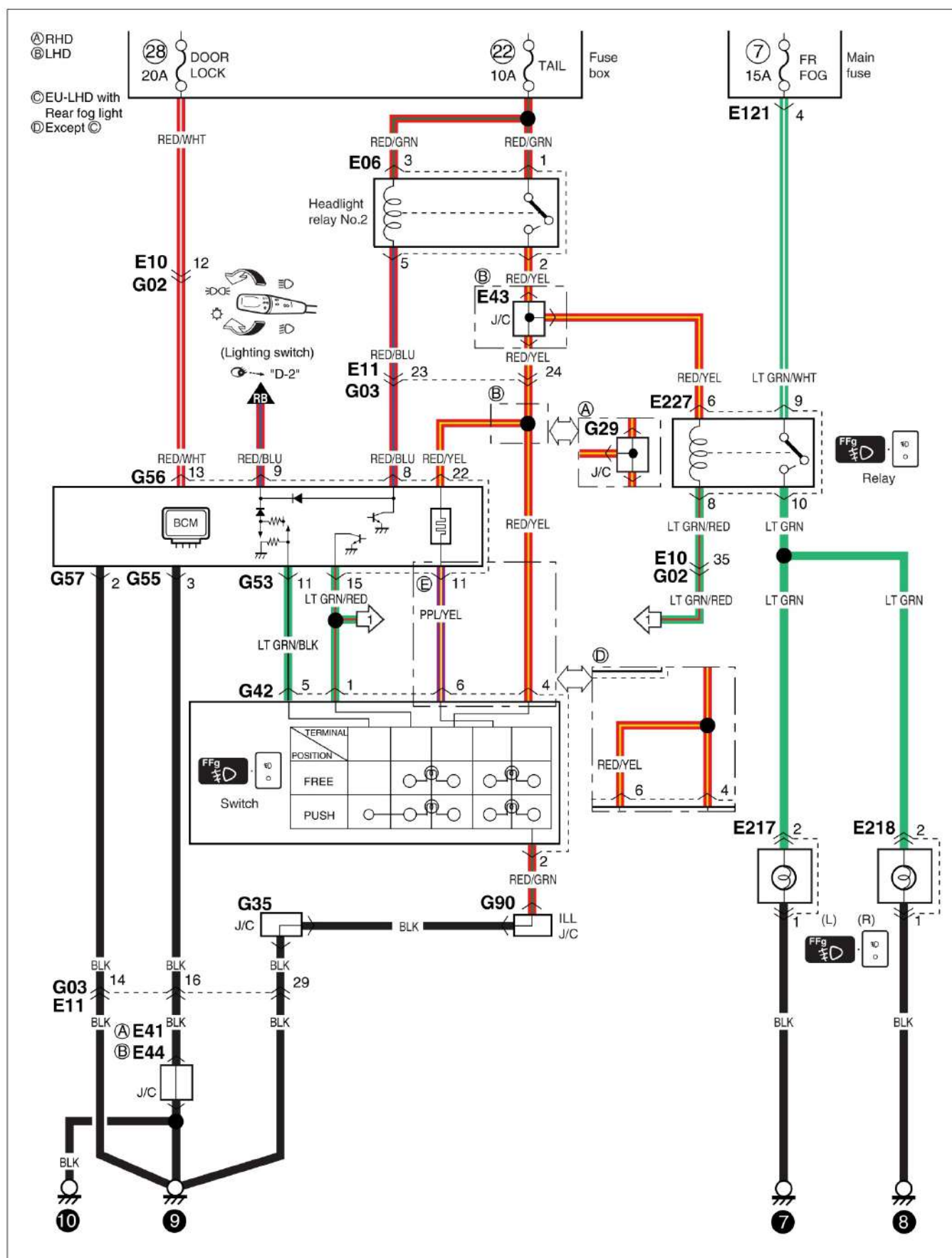


D-7 Back-up light

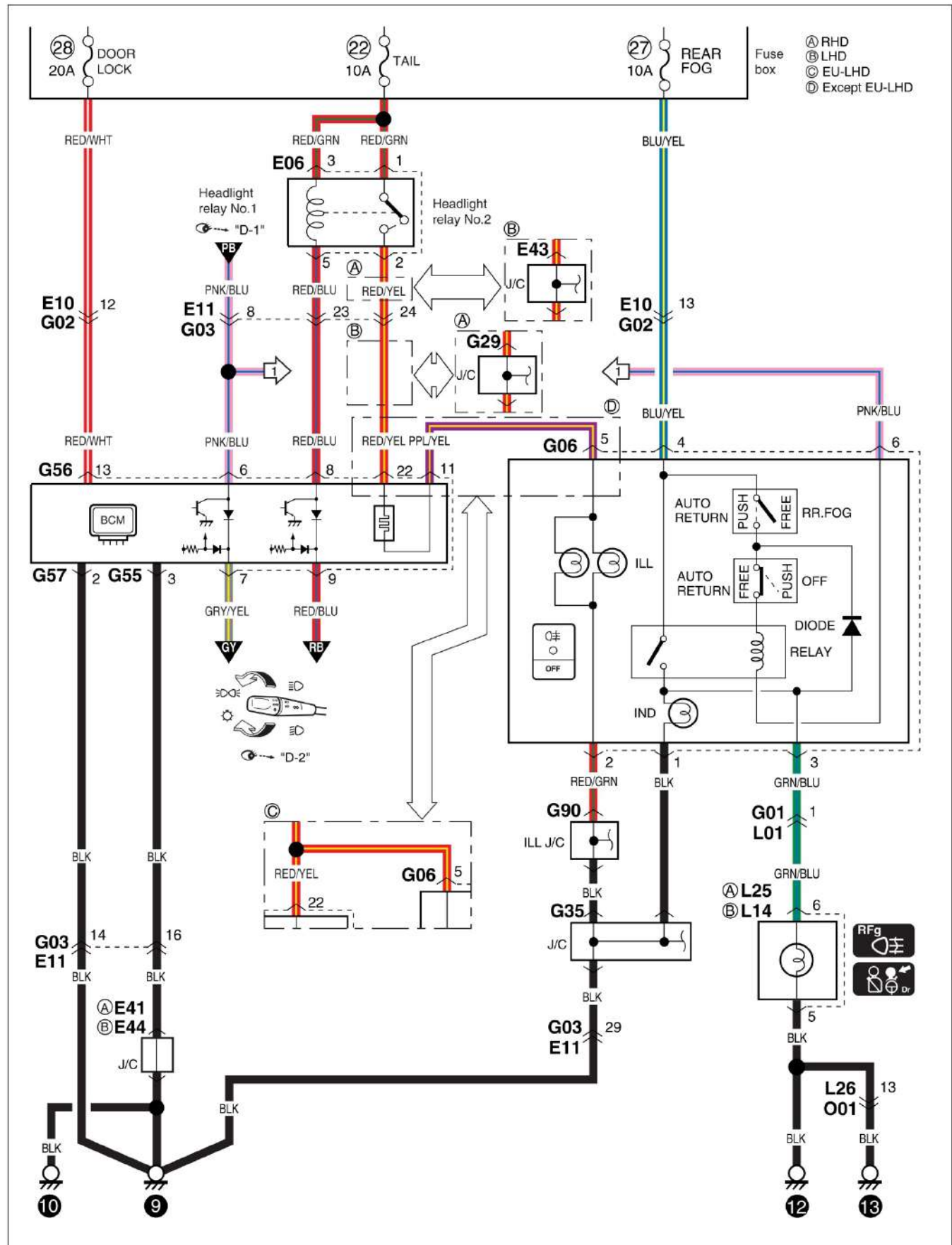


D-8 Headlight beam leveling system

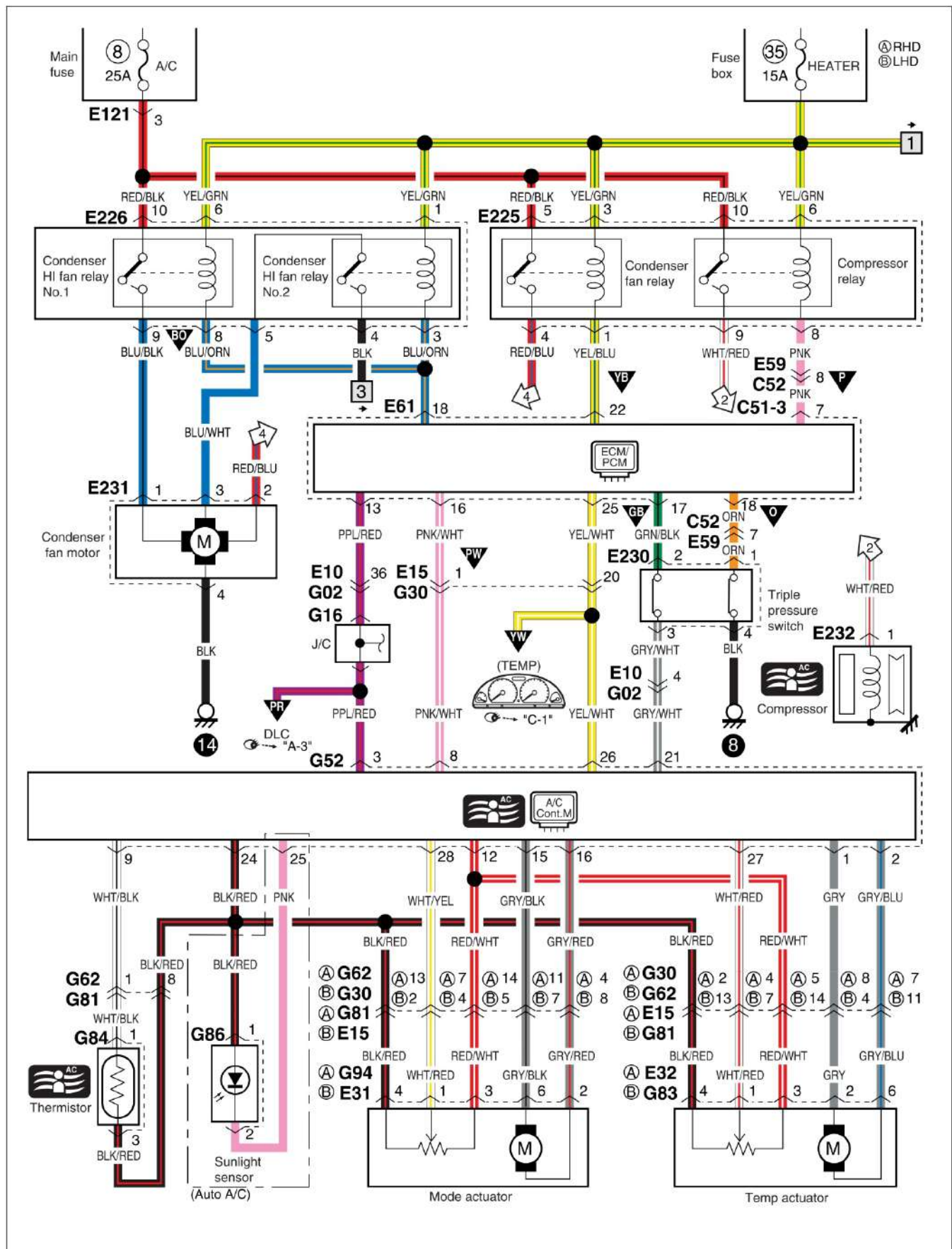




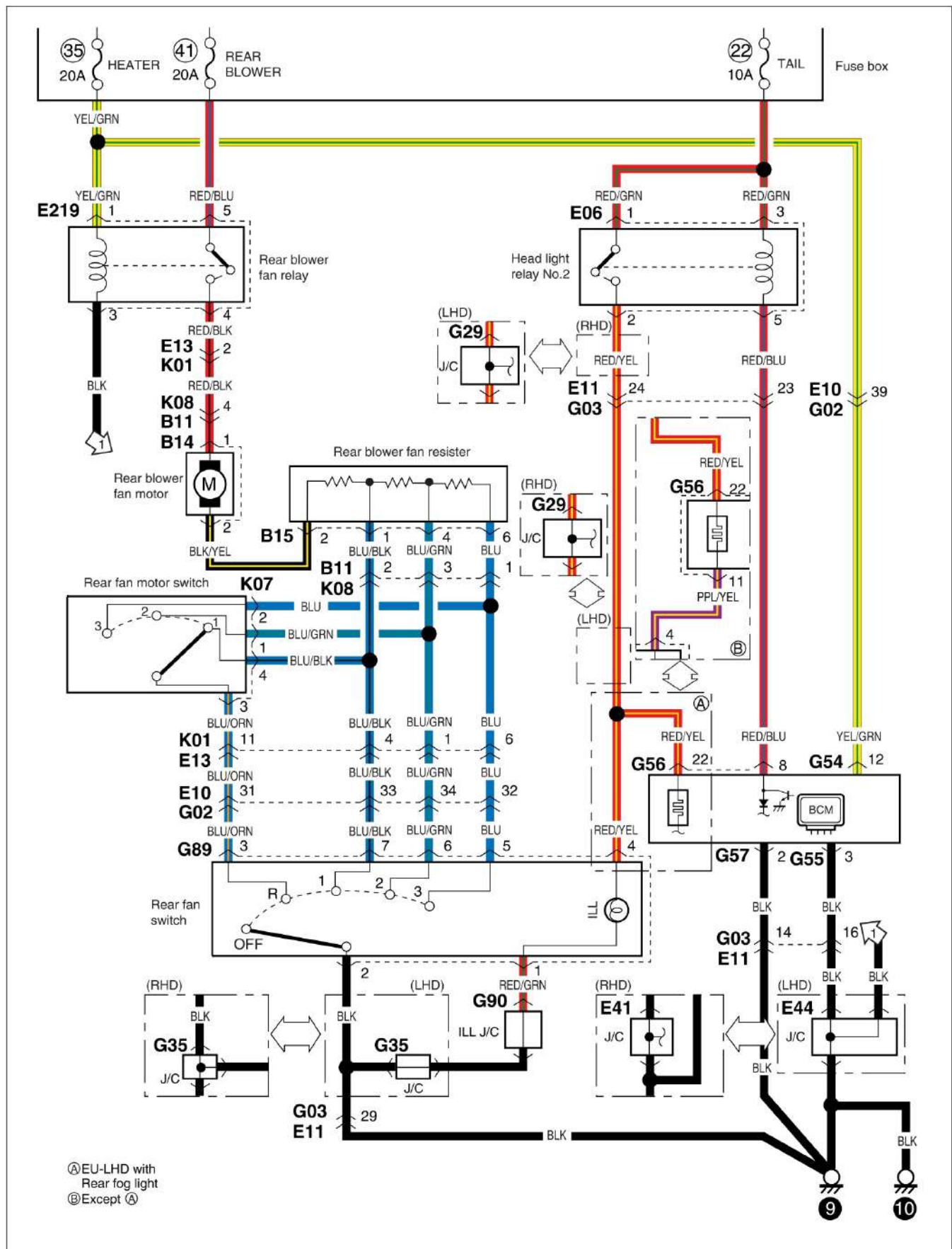
D-10 Rear fog light



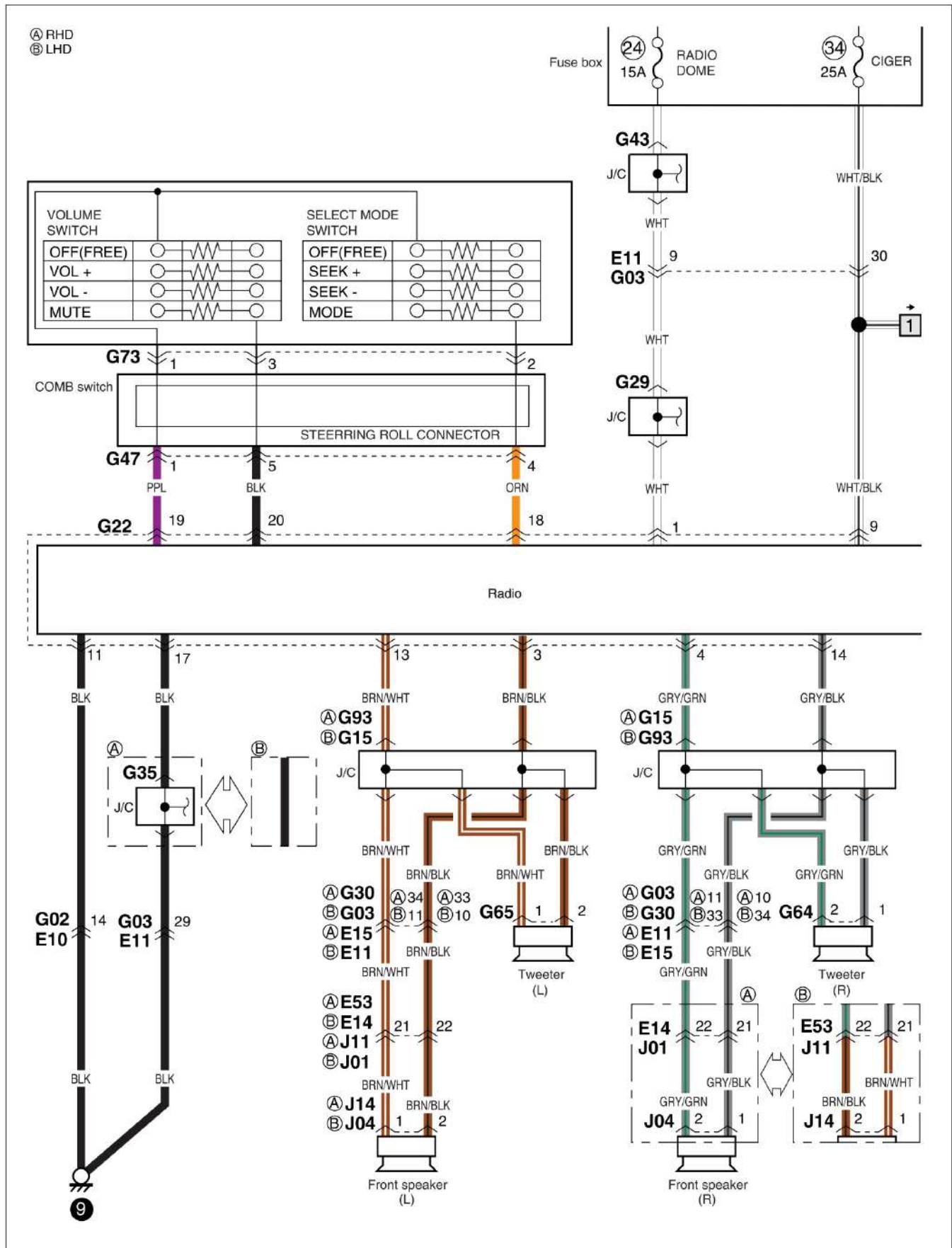
E-1 Heater and air conditioning

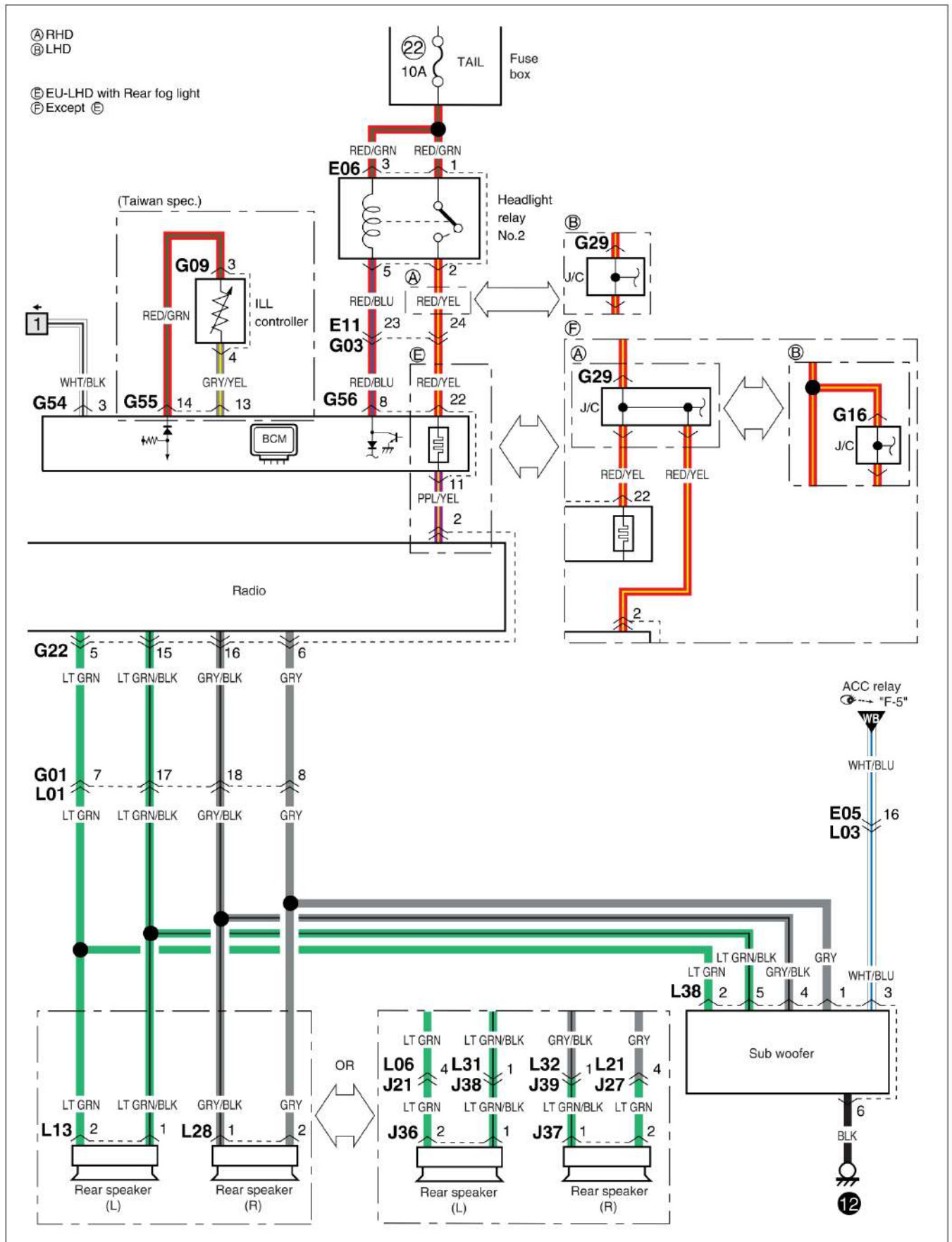


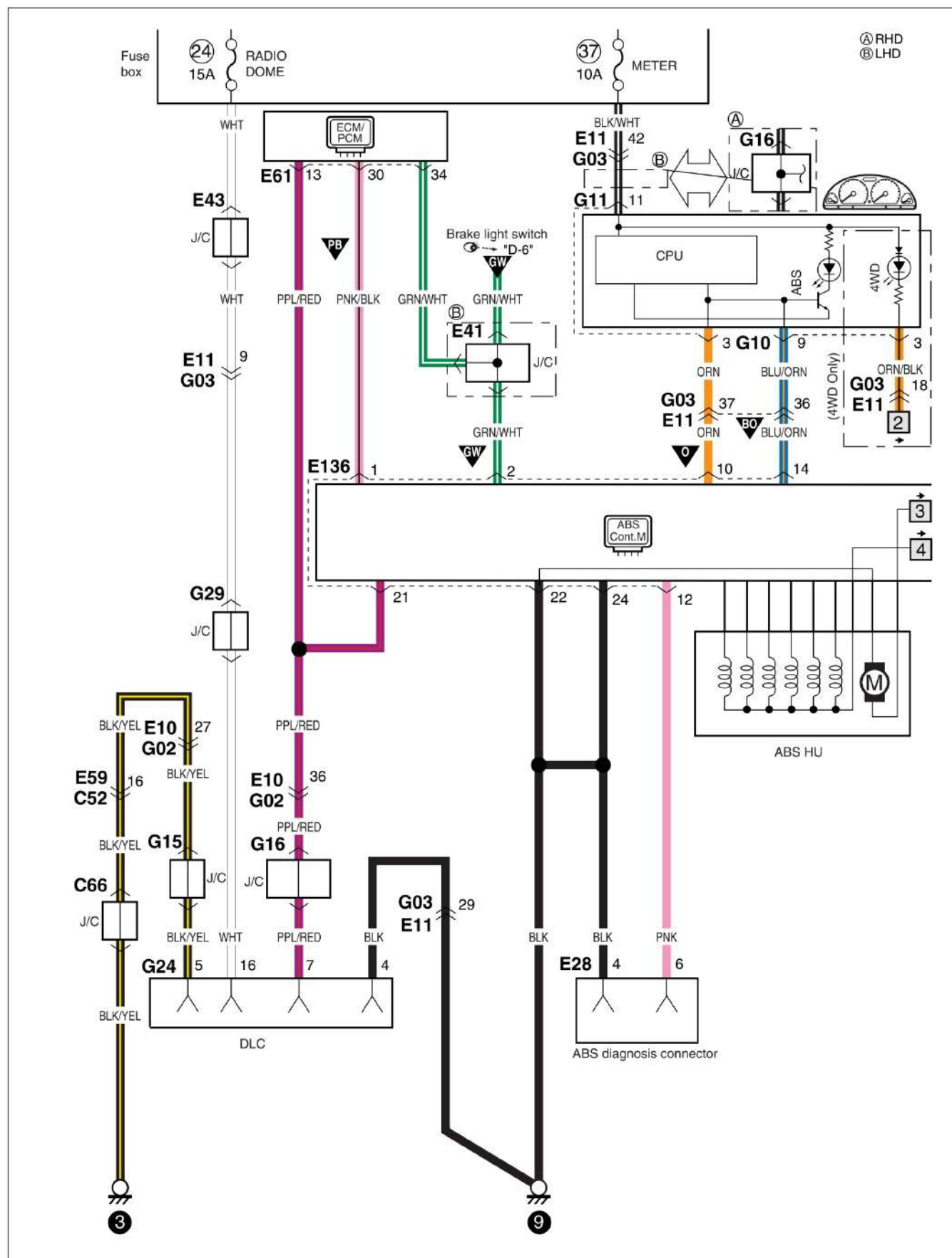
E-2 Rear air conditioning

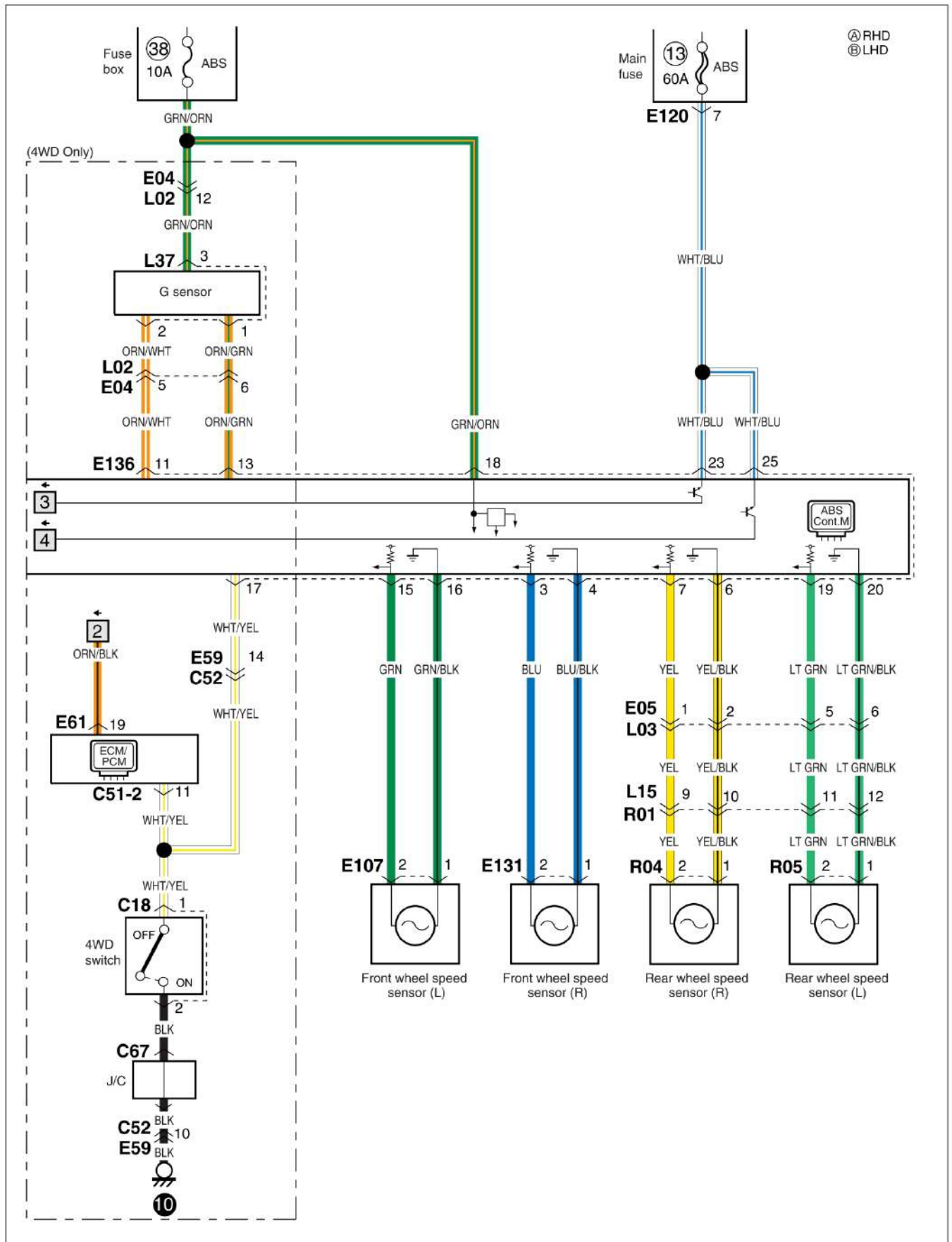


F-1 Radio

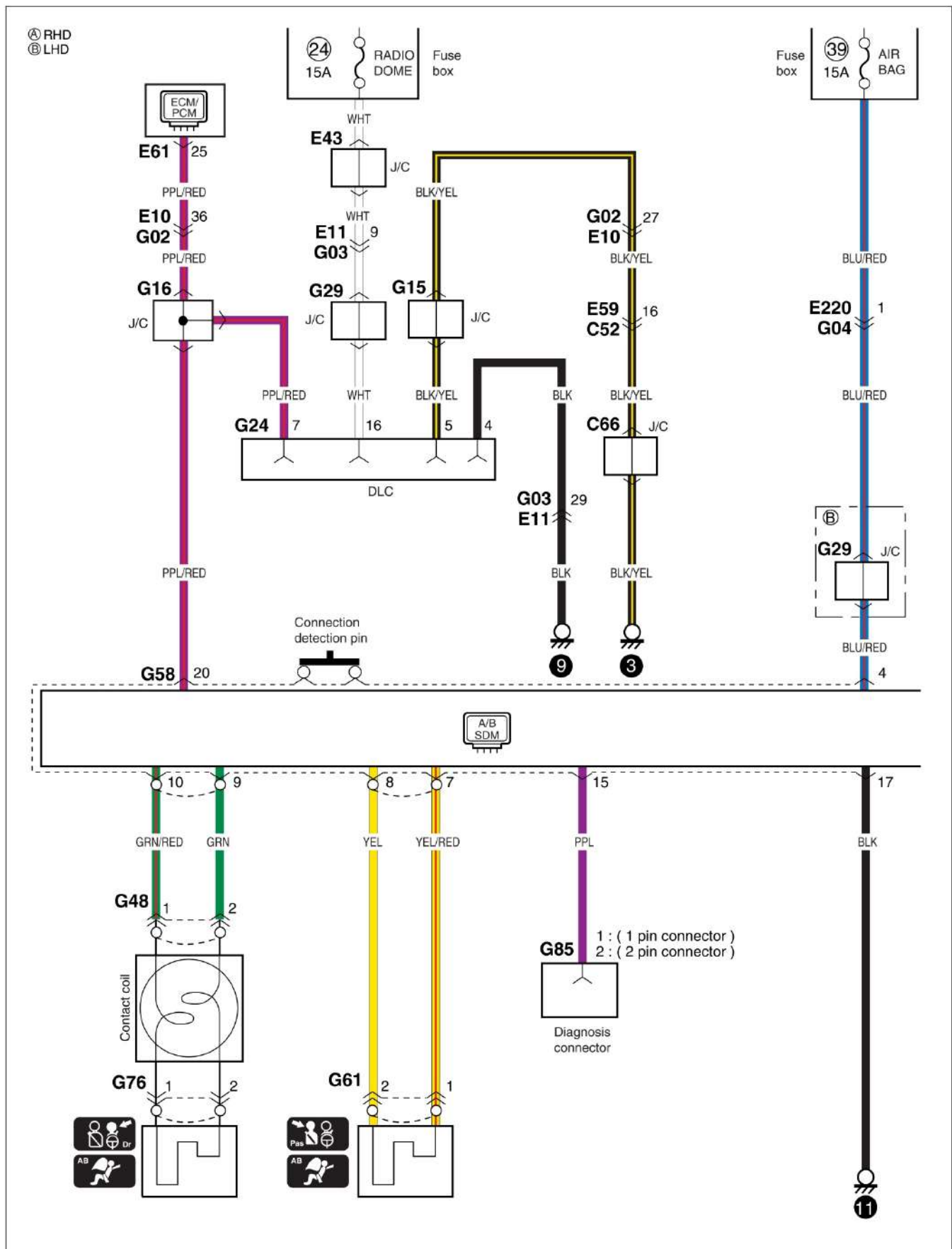


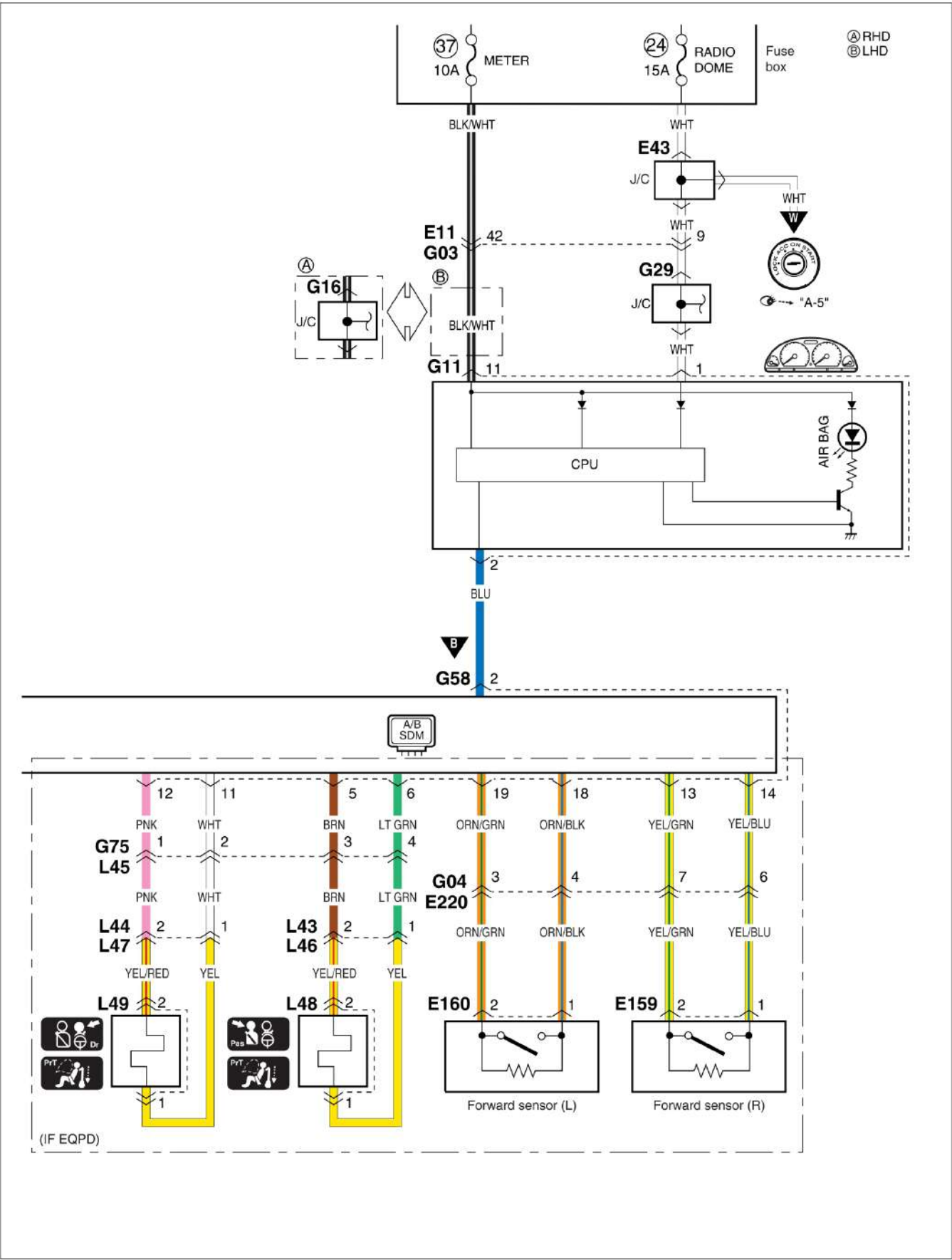




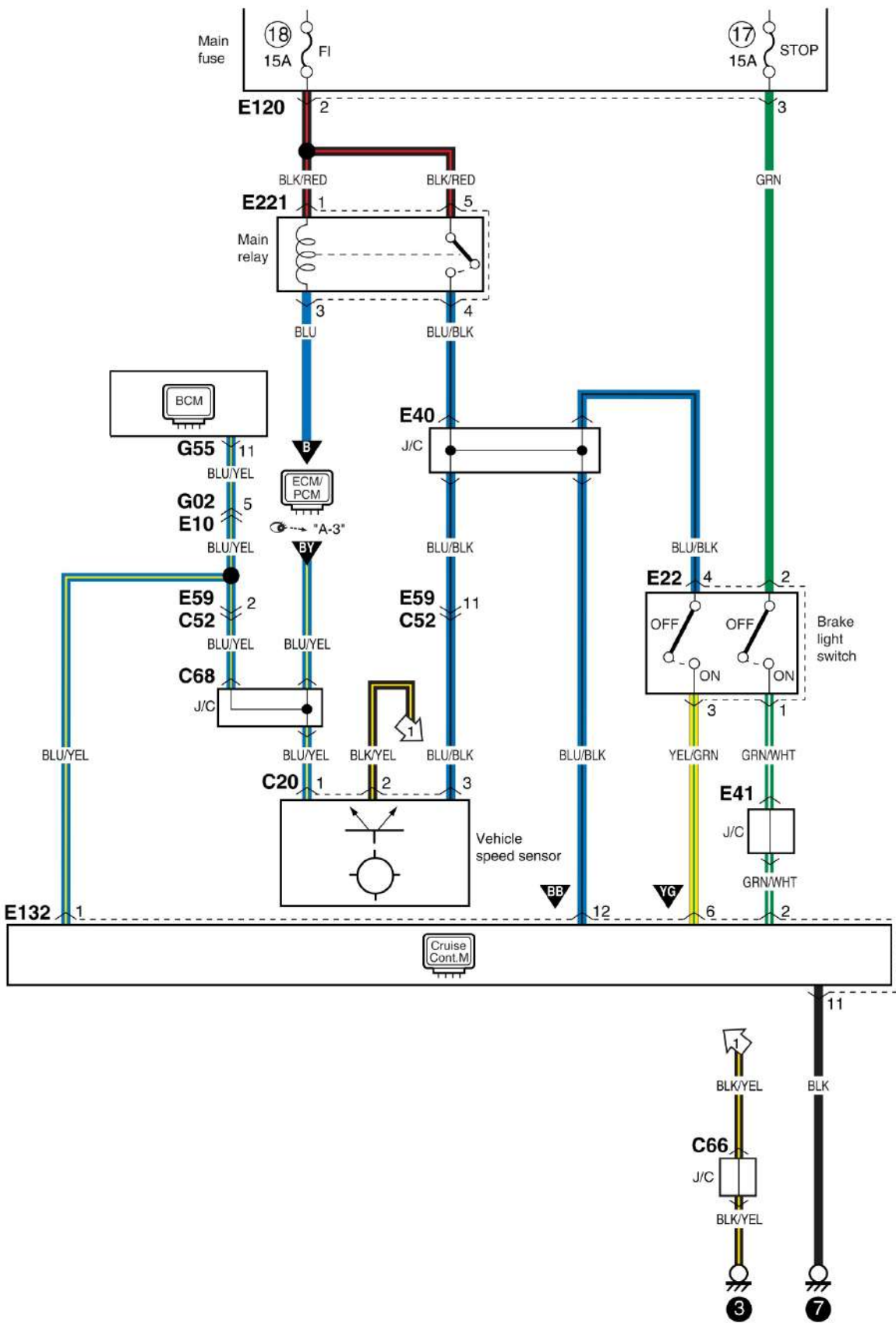


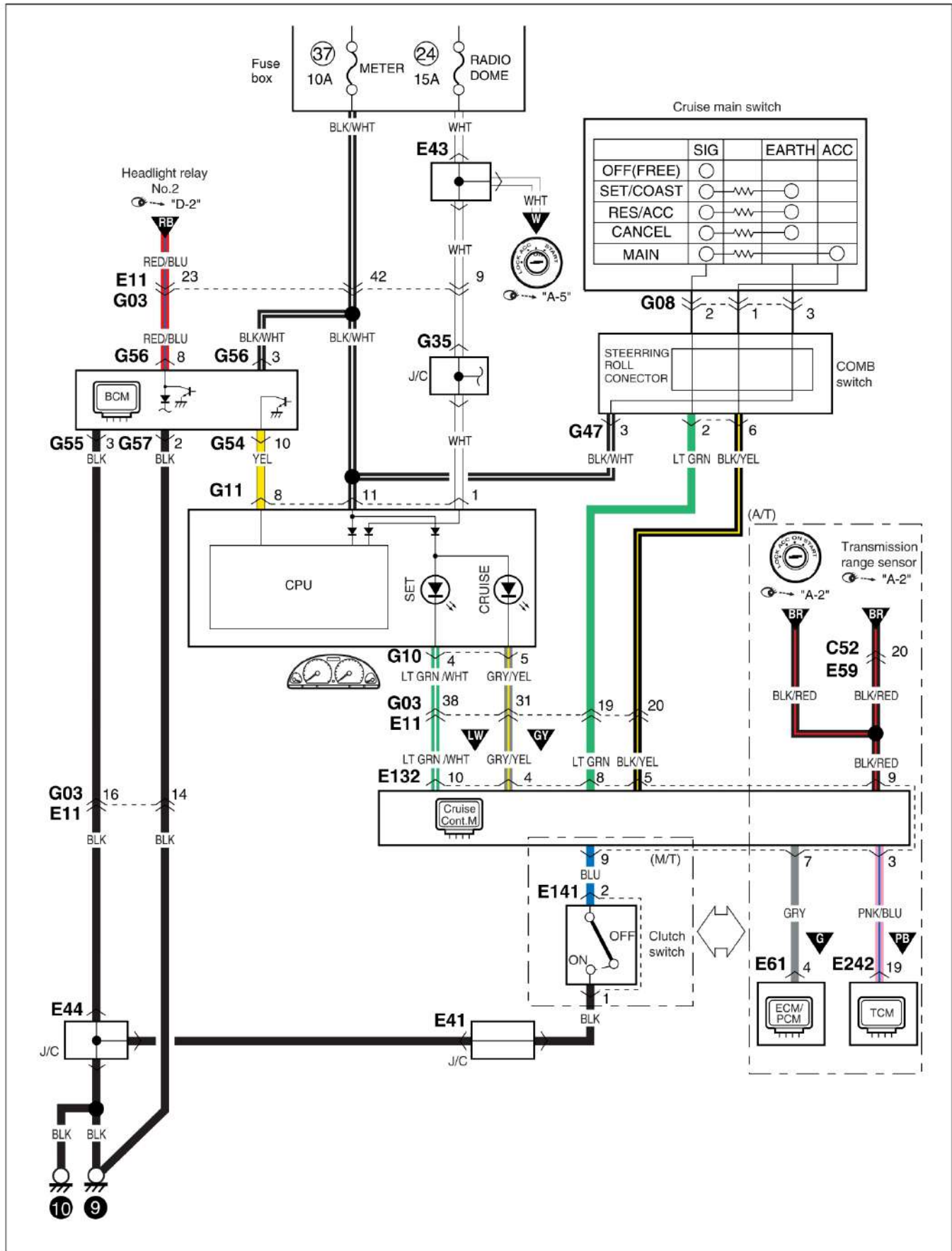
F-3 Air-bag control system

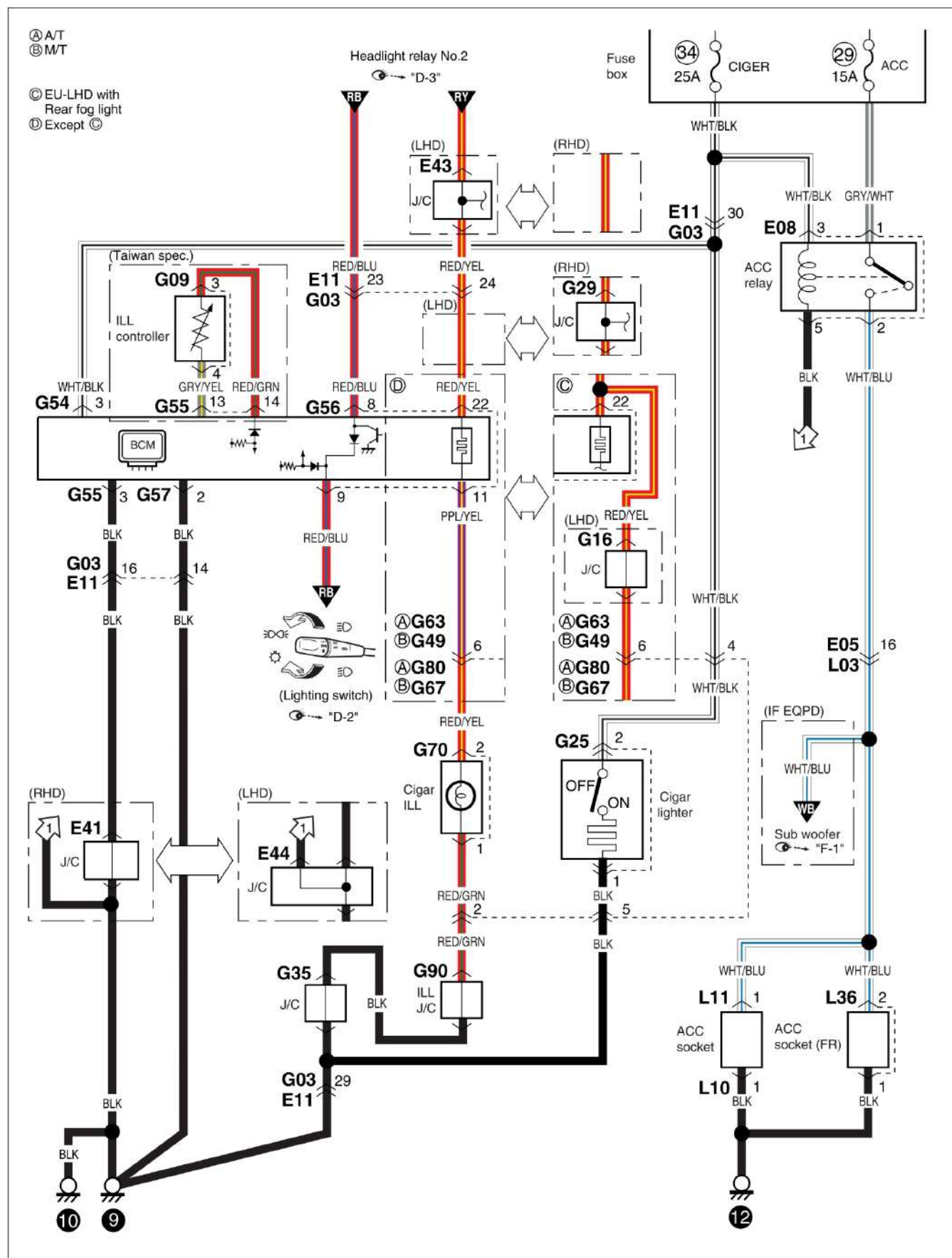




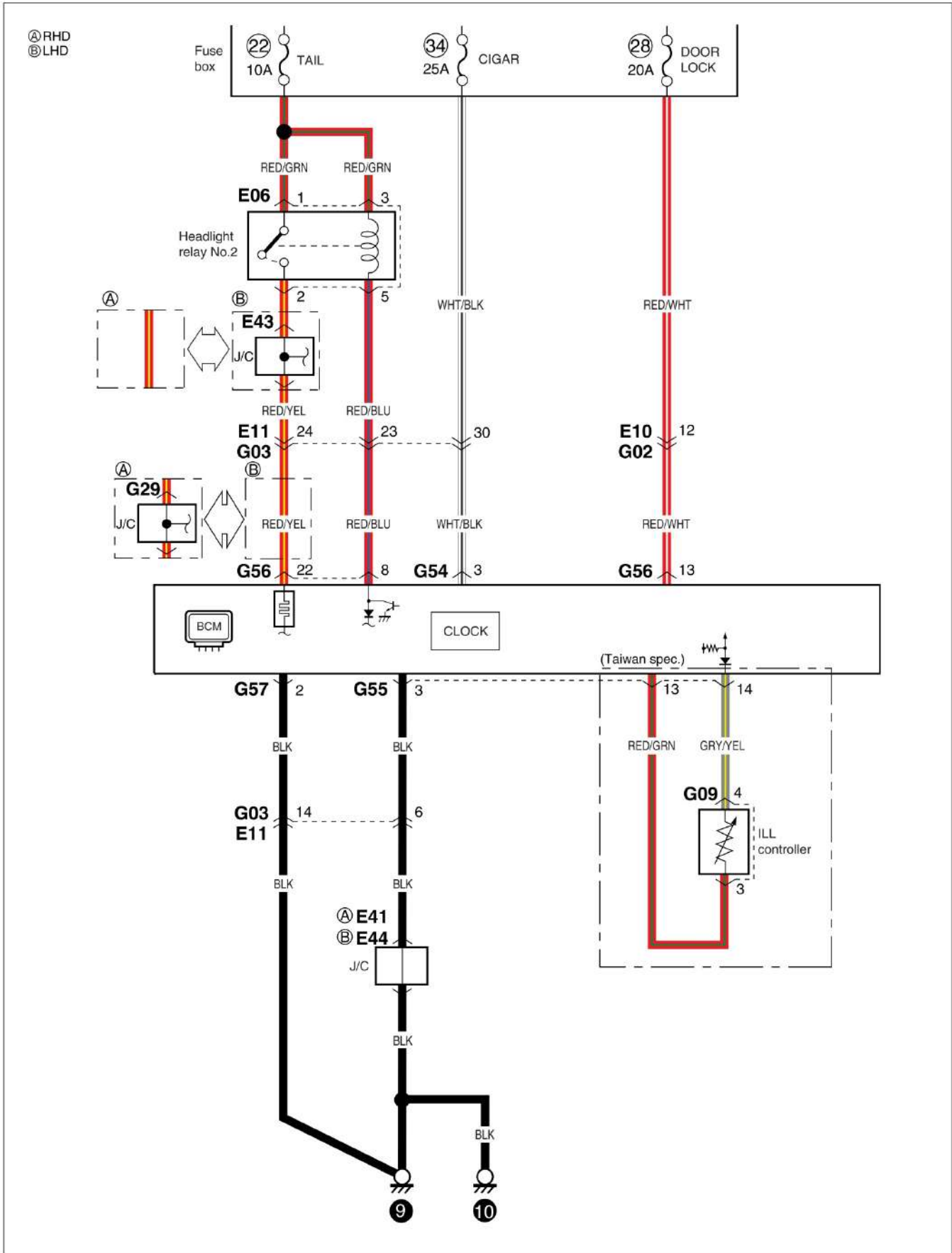
F-4 Cruise control system



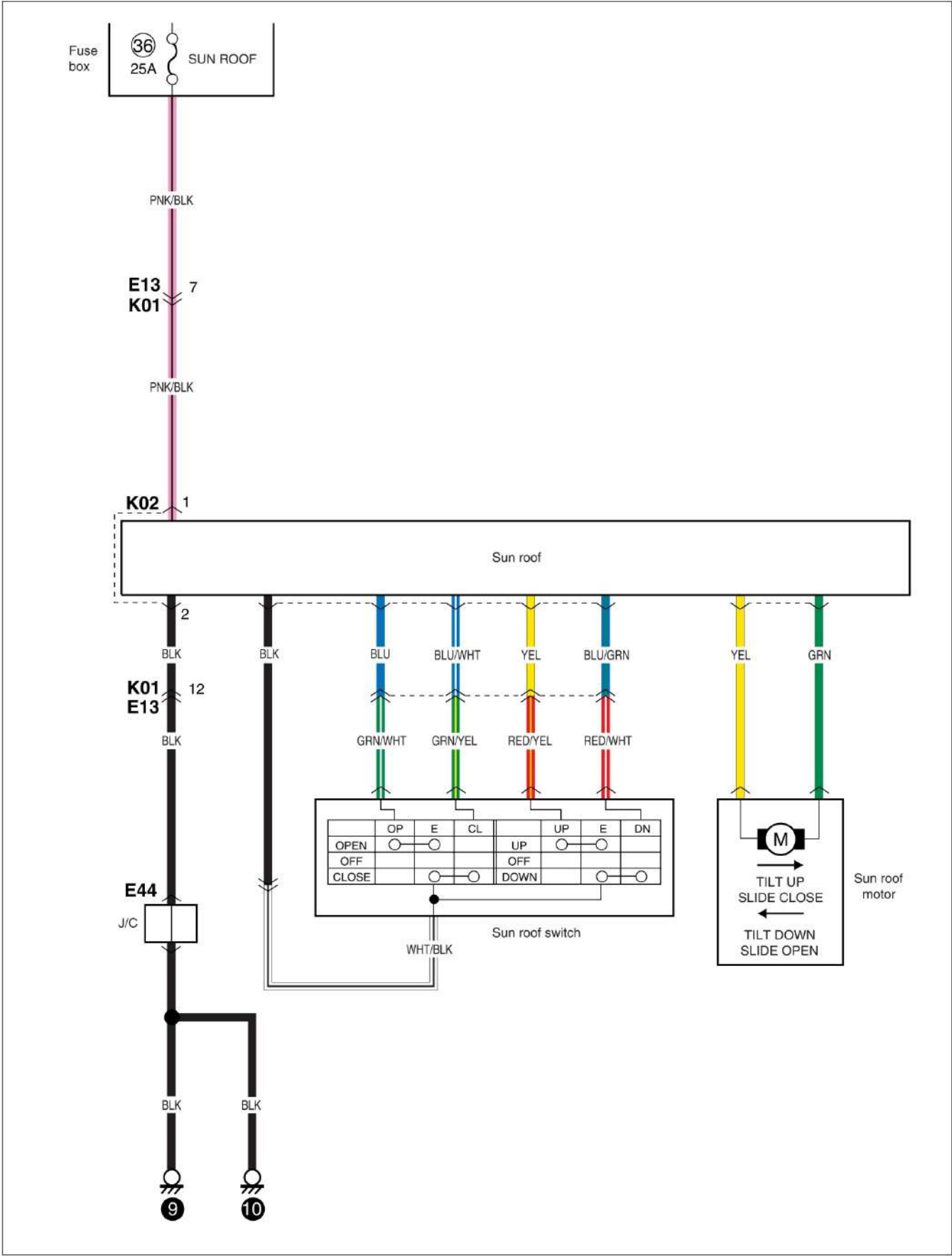




F-6 Clock




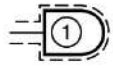







F-7 Sun roof






Connector list

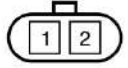

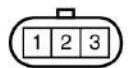
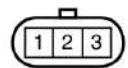
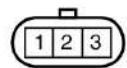

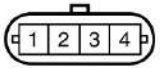
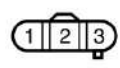

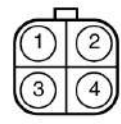
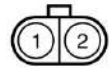
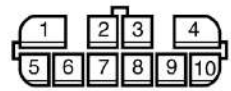

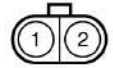
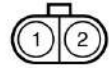


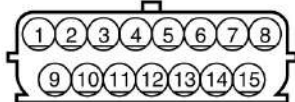
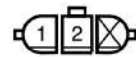


A




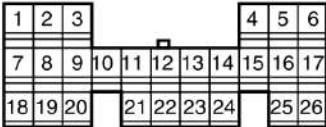
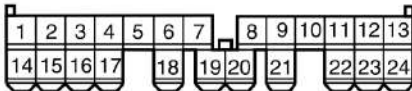

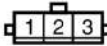



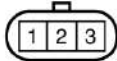
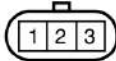
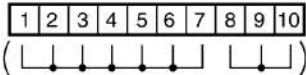
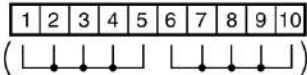
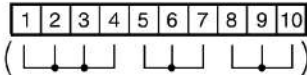
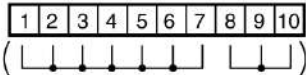

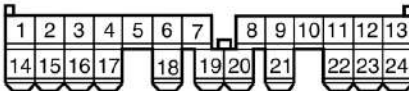
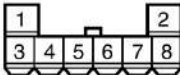
A01	A03 (TO E144)	A04		A05	A06
					
A07	A08	A09			
					

B

B11 (TO K08)	B14	B15
		

C

C03	C04	C05	C06	C07	C08
					
C09	C10	C11 (TO D01)	C13	C14	
					
C15	C16	C18	C19	C20	
					
C21	C22	C26	C27	C29	
					

C30	C51-1	C51-2			
					
51-3	C52 (TO E59)	C54	C57		
					
C58	C62	C63	C64	C65	
					
C66	C67	C68			
					
C69	C70	C85 (TO E215)	C86 (TO E208)		
					

D

D01 (TO C11) <div> </div>	D02 <div> </div>	<div> </div>	D03 <div> </div>	<div> </div>	D04 <div> </div>
D04 <div> </div>	D05 <div> </div>	<div> </div>	D06 <div> </div>	<div> </div>	D07 <div> </div>
D07 <div> </div>					

E


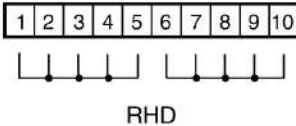
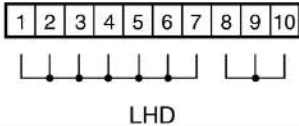
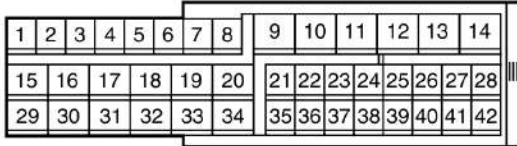

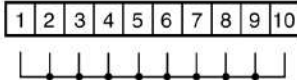
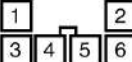
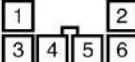
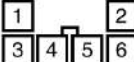
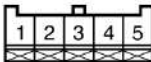

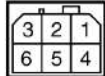

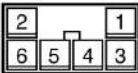
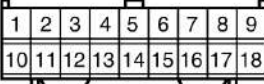
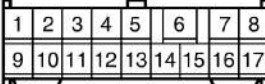
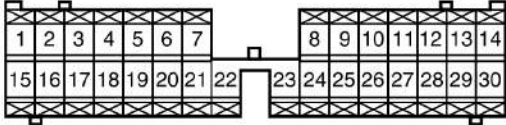
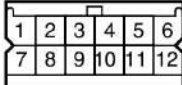
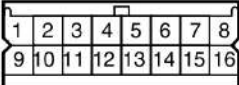
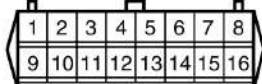
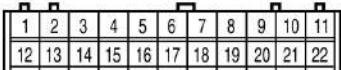

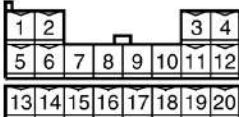



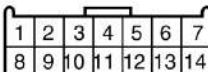
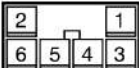




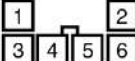
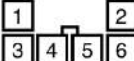

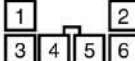
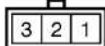
E04 (TO L02) <div><div><div>43</div><div>109</div><div>1615</div></div><div><div>21</div><div>65</div><div>1211</div></div></div>		E05 (TO L03) <div><div><div>43</div><div>109</div><div>1413</div><div>2019</div></div><div><div>21</div><div>65</div><div>1211</div><div>1615</div></div></div>		E06 <div><div><div>1</div><div>2</div></div><div><div>345</div></div></div>		E07 <div><div><div>1</div><div>2</div></div><div><div>345</div></div></div>			
E08 <div><div><div>1</div><div>2</div></div><div><div>345</div></div></div>		E09 <div><div><div>1</div><div>2</div></div><div><div>345</div></div></div>		E10 (TO G02) <div><div><div><div>14131211109</div><div>2827262524232221</div><div>4241403938373635</div></div><div><div>87654321</div><div>201918171615</div><div>343332313029</div></div></div></div>					
E11 (TO G03) <div><div><div><div>14131211109</div><div>2827262524232221</div><div>4241403938373635</div></div><div><div>87654321</div><div>201918171615</div><div>343332313029</div></div></div></div>				E13 (TO K01) <div><div><div>3</div><div>87</div><div>1312</div><div>15</div></div><div><div>2</div><div>6</div><div>11</div></div><div><div>1</div><div>54</div><div>109</div><div>14</div></div></div>		E14 (TO J01) <div><div><div><div>123456</div><div>78910</div><div>15161718</div><div>2324</div></div><div><div>11121314</div><div>19202122</div><div>2526</div><div>2728</div></div></div></div>			
E15 (TO G30) <div><div><div><div>14131211109</div><div>2827262524232221</div><div>4241403938373635</div></div><div><div>87654321</div><div>201918171615</div><div>343332313029</div></div></div></div>				E18 <div><div><div>6</div><div>87</div><div>9</div></div><div><div>3</div><div>4</div><div>5</div></div><div><div>1</div><div>2</div></div></div>		E21 <div><div><div>12</div><div>34</div></div></div>		E22 <div><div><div>12</div><div>34</div></div></div>	
E28 <div><div><div>123</div><div>456</div></div></div>		E31 <div><div><div>1</div><div>34</div></div><div><div>2</div><div>56</div></div></div>		E32 <div><div><div>1</div><div>34</div></div><div><div>2</div><div>56</div></div></div>		E40 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>LHD</div></div>			
E40 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>RHD</div></div>				E41 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div></div>		E42 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>LHD</div></div>			
E42 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>RHD</div></div>				E43 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>LHD</div></div>		E44 <div><div><div>12345678910</div></div><div><div>(</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>•</div><div>)</div></div><div>LHD</div></div>			
E49 <div><div><div>1</div><div>2</div></div><div><div>345</div></div></div>		E50 <div><div><div>1</div><div>2</div></div></div>		E53 (TO J11) <div><div><div><div>123456</div><div>78910</div><div>15161718</div><div>2324</div></div><div><div>11121314</div><div>19202122</div><div>2526</div><div>2728</div></div></div></div>					


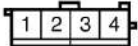
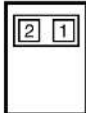
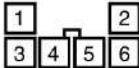
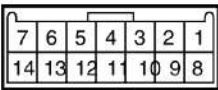
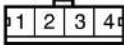
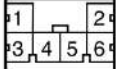
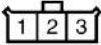




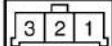

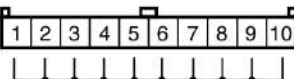


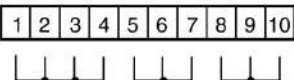
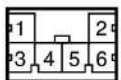
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E137	E141	E144 (TO A03)	E145	E149 (TO E109)	E150	
E151	E159	E160	E199	E203	E204	
E205	E208 (TO C86)		E209	E211		
E215 (TO C85)			E217	E218	E219	
E220 (TO G04)		E221	E222	E223	E224	E225

E226 	E227 	E228 	E229 	E230 	E231
E232 	E234 	E242 	E243 		
E244 	E245 	E247 (TO E249) 	E249 (TO E247) 	E250 	
E299 					

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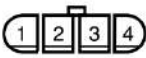
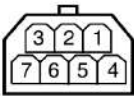
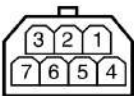




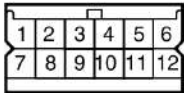

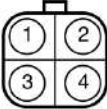
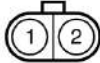
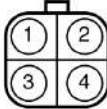
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<div>G03 (TO E11)</div> <div><table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr><tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr><tr><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td></tr></table></div>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	<div>G04 (TO E220)</div> <div><table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td>2</td></tr><tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td></td><td></td></tr></table></div>	1						2	3	4	5	6	7			<div>G06</div> <div><table><tr><td>1</td><td></td><td></td><td>2</td></tr><tr><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></div>	1			2	3	4	5	6	<div>G09</div> <div><table><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table></div>	1	2	3	4
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G25	G29				
					
G30 (TO E15)			G34	G35	
					
G41	G42	G43	G45	G46	G47
					
G48	G49 (TO G67)	G50		G51	
					
G52			G53	G54	
					
G55		G56	G57		
					
G58	G59	G60	G61		
					
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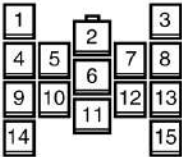






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G82 	G83 	G84 	G85  OR 	G86 
G87 	G88 	G89 	G90 	G91 (TO G92) 
G92 (TO G91) 	G93 	G94 		

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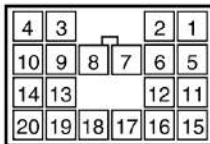
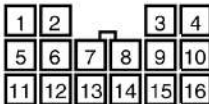
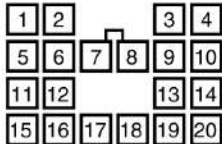
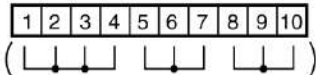








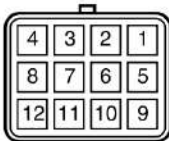
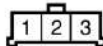
J01 (TO E14) 	J02 	J04 	J05 		
J08 	J09 	J10 	J11 (TO E53) 	J12 	
J14 	J15 	J16 	J17 	J18 	J21 (TO L06)
J22 	J23 	J24 	J27 (TO L21) 	J28 	J29




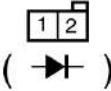

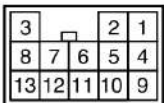



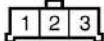
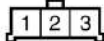



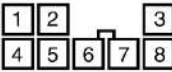
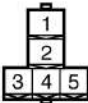
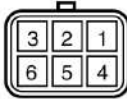


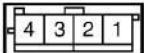


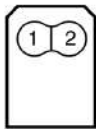
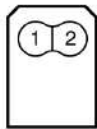


J30 <div>  </div>	J34 <div>  </div>	J35 <div>  </div>	J36 <div>  </div>	J37 <div>  </div>	J38 (TO L31) <div>  </div>
J39 (TO L32) <div>  </div>	J40 <div>  </div>	J41 (TO L46) <div>  </div>	J42 (TO L46) <div>  </div>	J42 (TO L46) <div>  </div>	J42 (TO L46) <div>  </div>

K

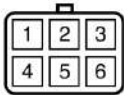




K01 (TO E53) <div>  </div>	K02 <div>  </div>	K03 <div>  </div>	K04 <div>  </div>	K05 <div>  </div>
K07 <div>  </div>	K08 (TO B11) <div>  </div>			

L

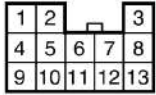




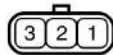

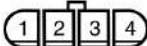


L01 (TO G01)	L02 (TO E04)		L03 (TO E05)		
					
L04	L05	L06 (TO J21)	L08	L10	
					
L11	L12	L13	L14	L15 (TO R01)	L16
					

L20 	L21 (TO J27) 	L23 	L24 	L25 	L26 (TO O01) 
L28 	L31 (TO J38) 	L32 (TO J39) 	L33 	L34 	L35 
L36 	L37 	L38 	L39 	L41 (TO M01) 	L43 (TO L46) 
L44 (TO L47) 	L45 (TO G75) 	L46 (TO L43) 	L47 (TO L44) 	L48 	L49 
L50 (TO J41) 	L51 (TO J42) 				

M

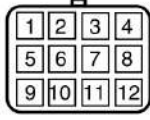
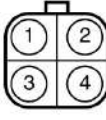


M01 (TO L41) 	M02 	M03 	M04 	M05 
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O

O01 (TO L26) 	O02 	O03 (TO O21) 	O04 	O05 (TO O11) 	O06 
O07 	O08 	O21 (TO O03) 	O22 		

Glossary

R

R01 (TO L15)	R02	R04	R05
			

A/C amplifier
A/C mode actuator
A/T fluid
A/T mode switch
A/T shift illumination
A/T shift lock solenoid
ABS control actuator
Actuator
Air flow meter
Circuit breaker
Clutch pedal position switch
CO adjusting resistor
Coil antenna
Combination switch
Condenser fan
Contact coil
Cruise actuator
Data link connector
Dual pressure switch
EGR stepper motor
EVAP canister purge valve
EVAP canister vent valve
Exhaust gas recirculation
Forward clutch cylinder revolution sensor
Front clearance light
Front combination light
Fuel injection
Fuel level gauge
G sensor
Gas generator
Generator
Hazard warning light
Headlight beam leveling actuator
Headlight leveling motor
Heated oxygen sensor
Heater blower motor
Heater resistor

High mounted stop light
Ignition coil
Ignition timing resister
Ignitor
Illumination controller
Input sensor
Interior (dome) light
Knock sensor
License plate light
Light emitting diode
Limit switch
Lock up solenoid
Meter illumination control
Mode actuator
Mode control switch
Mode select switch
Noise suppressor
O/D cut switch
Oil pressure switch
Output diagnosis coupler
Output shaft speed sensor
Parking brake switch
Photo diode
Photo transistor
Piezoelectric element
Position light
Pressure regulator
Pressure switch
Reed switch
Reference (zener) diode
Seat belt switch

Shift illumination
Shift lock relay
Shift lock solenoid
Side air-bag inflator
Slide switch
Sliding roof
Solenoid valve
Starting motor
Tail light
Throttle position sensor
Tilt switch
Torque sensor
Transmission control module
Transmission range switch
Triple pressure switch
Turn signal light
Variable resistance
Vehicle speed sensor
Warning controller
With
Without