WIRING SYSTEM SECTION

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.
This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.
Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

G8050GE7

WIRING SYSTEM

WI

1. Basic Diagnostics Procedure

S903627

A: BASIC PROCEDURES S903267E31

1. GENERAL S903627E3101

The most important purpose of diagnostics is to determine which part is malfunctioning quickly, to save time and labor.

2. IDENTIFICATION OF TROUBLE SYMPTOM S903627E3102

Determine what the problem is based on the symptom.

3. PROBABLE CAUSE OF TROUBLE

S903627E3103

Look at the wiring diagram and check the system's circuit. Then check the switch, relay, fuse, ground, etc.

4. LOCATION AND REPAIR OF TROUBLE

S903627E3104

1) Using the diagnostics narrow down the causes.
2) If necessary, use a voltmeter, ohmmeter, etc.
3) Before replacing certain component parts (switch, relay, etc.), check the power supply, ground, for open wiring harness, poor connectors, etc. If no problems are encountered, check the component parts.

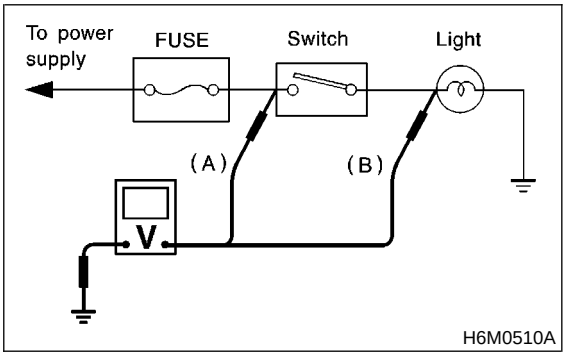
5. CONFIRMATION OF SYSTEM OPERATION S903267E3105

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION S903627G51

1. VOLTAGE MEASUREMENT S903627G5101

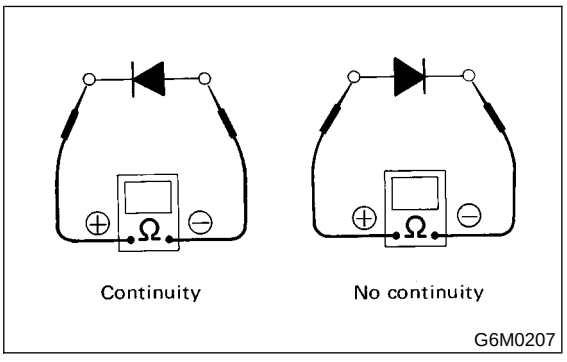
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector (B). The voltmeter will indicate no voltage.



4) With test set-up held as it is, turn switch ON. The voltmeter will indicate a voltage and, at the same time, the light will come on.
5) The circuit is in good order. If a problem such as a lamp failing to light occurs, use the procedures outlined above to track down the malfunction.

2. CIRCUIT CONTINUITY CHECKS S903627G5102

1) Disconnect the battery terminal or connector so there is no voltage between the check points.
Contact the two leads of an ohmmeter to each of the check points.
If the circuit has diodes, reverse the two leads and check again.
2) Use an ohmmeter to check for diode continuity.
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.
When contacting the two leads in reverse, there should be no continuity.

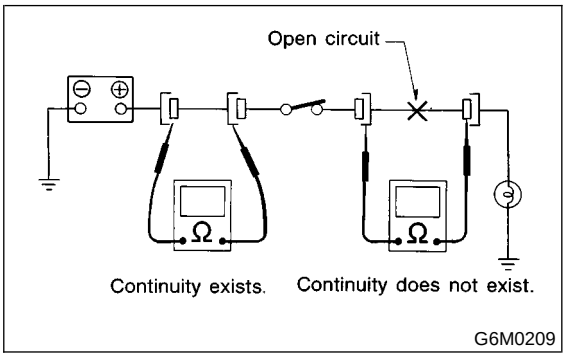


3) Symbol "○—○" indicates that continuity exists between two points or terminals. For example, when a switch position is "3", continuity exists among terminals 1, 3 and 6, as shown in table below.

Terminal / Switch Position	1	2	3	4	5	6
OFF						
1	○				○	○
2	○			○		○
3	○		○			○
4	○	○				○

B6M0749

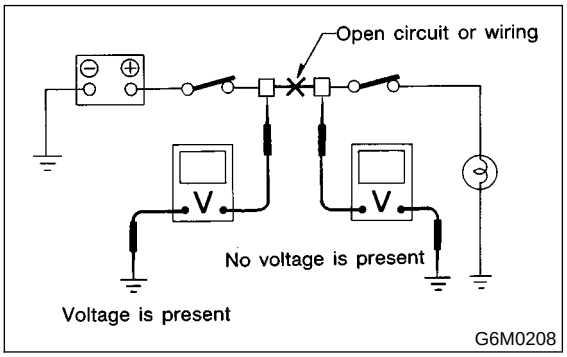
2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



G6M0209

3. HOW TO DETERMINE AN OPEN CIRCUIT S903627G5103

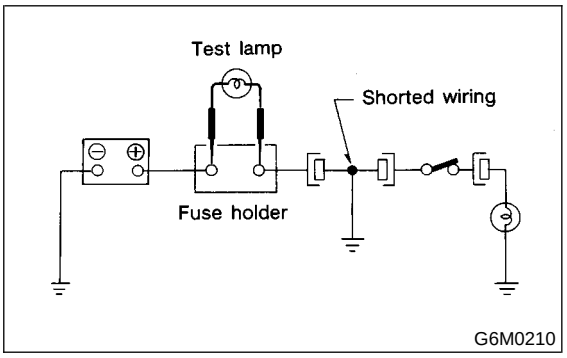
1) Voltmeter Method:
An open circuit is determined by measuring the voltage between respective connectors and ground using a voltmeter, starting with the connector closest to the power supply. The power supply must be turned ON so that current flows in the circuit. If voltage is not present between a particular connector and ground, the circuit between that connector and the previous connector is open.



G6M0208

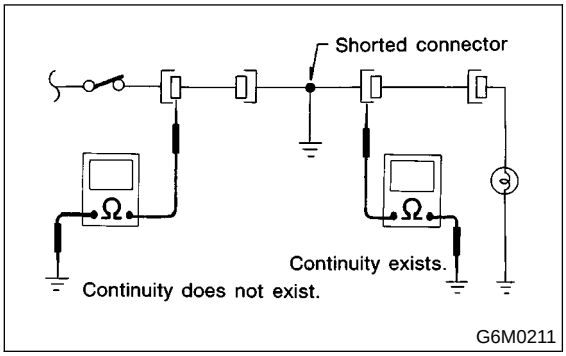
4. HOW TO DETERMINE A SHORT CIRCUIT S903627G5104

1) Test lamp method:
Connect a test lamp (rated at approximately 3 watts) in place of the blown fuse and allow current to flow through the circuit. Disconnect one connector at a time from the circuit, starting with the one located farthest from the power supply. If the test lamp goes out when a connector is disconnected, the wiring between that connection and the next connector (farther from the power supply) is shorted.



G6M0210

2) Ohmmeter method:
Disconnect all affected connectors, and check continuity between each connector and ground. When ohmmeter indicates continuity between a particular connector and ground, that connector is shorted.

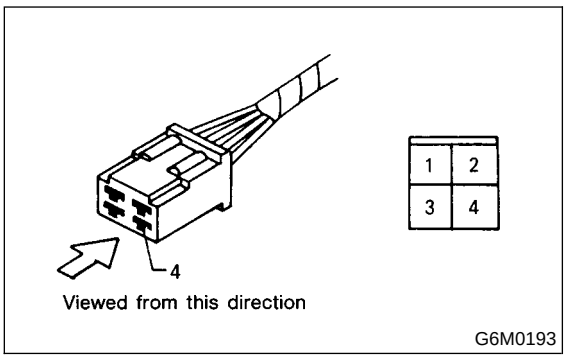


C: HOW TO READ WIRING DIAGRAMS S903627G52

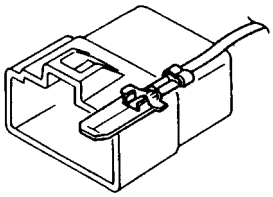
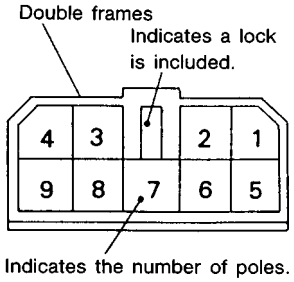
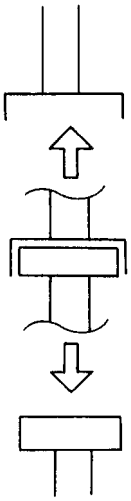
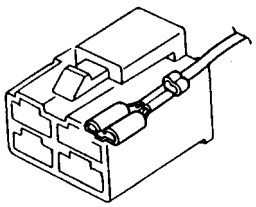
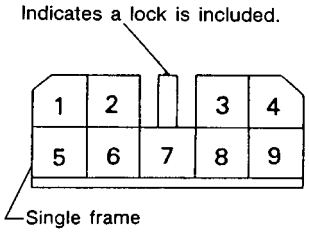
1. WIRING DIAGRAM S903627G5201

The wiring diagram of each system is illustrated so that you can understand the path through which the electric current flows from the battery.
Sketches and codes are used in the diagrams. They should read as follows:

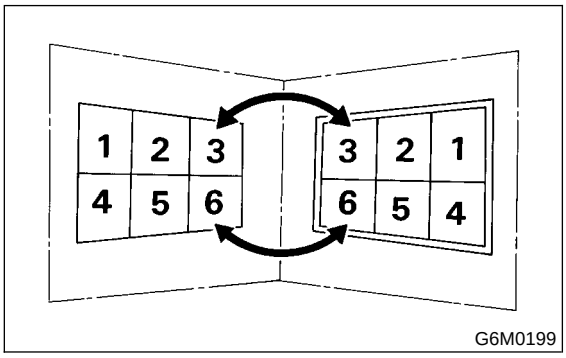
- Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



- The number of poles or pins, presence of a lock, and pin number of each terminal are indicated in the sketch of each connector. In the sketch, the highest pole number refers to the number of poles which the connector has. For example, the sketch of the connector shown in figure indicates the connector has 9 poles.

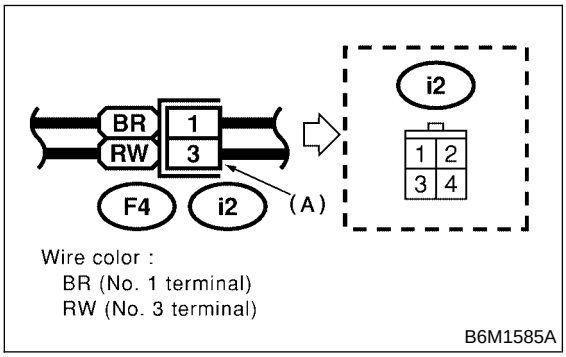
Connector used in vehicle	Connector shown in wiring diagram		
	Sketch	Symbol	Number of poles
 G6M0194	 G6M0196	 G6M0198	Numbered in order from upper right to lower left.
 G6M0195	 G6M0197		Numbered in order from upper left to lower right.

● When one set of connectors is viewed from the front side, the pole numbers of one connector are symmetrical to those of the other. When these two connectors are connected as a unit, the poles which have the same number are joined.

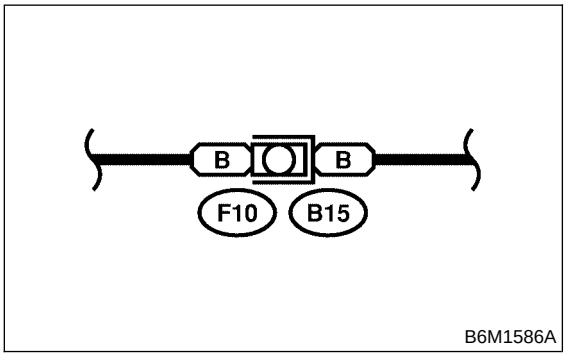


● Electrical wiring harness:
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.
● The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal number and connector is described in figure.

NOTE:
A wire which runs in one direction from a connector terminal sometimes may have a different color from that which runs in the other direction from that terminal.

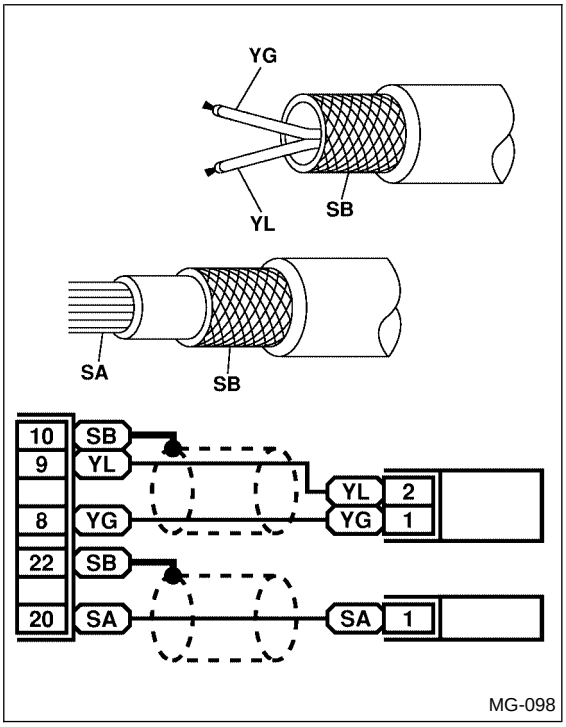


● In wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

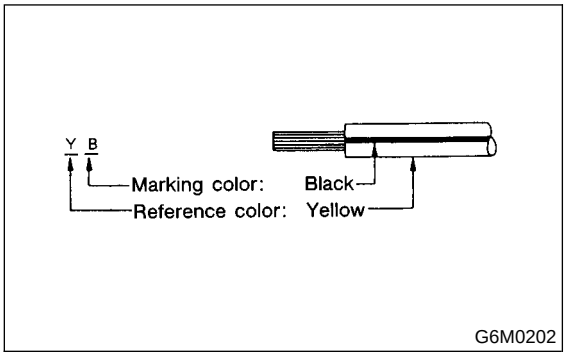


● The following color codes are used to indicate the colors of the wires used.

Color code	Color
L	Blue
B	Black
Y	Yellow
G	Green
R	Red
W	White
Br	Brown
Lg	Light green
Gr	Gray
P	Pink
Or	Orange
Lb	Light Blue
V	Violet
SA	Sealed (Inner)
SB	Sealed (Outer)



● The wire color code, which consists of two letters (or three letters including Br or Lg), indicates the standard color (base color of the wire covering) by its first letter and the stripe marking by its second letter.



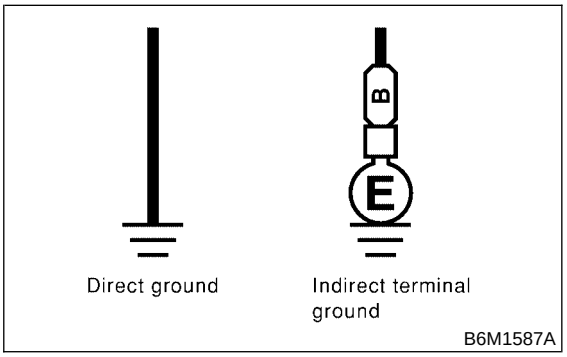
● The table lists the nominal sectional areas and allowable currents of the wires.

CAUTION:
When replacing or repairing a wire, be sure to use the same size and type of the wire which was originally used.

NOTE:
● The allowable current in the table indicates the tolerable amperage of each wire at an ambient temperature of 40°C (104°F).
● The allowable current changes with ambient temperature. Also, it changes if a bundle of more than two wires is used.

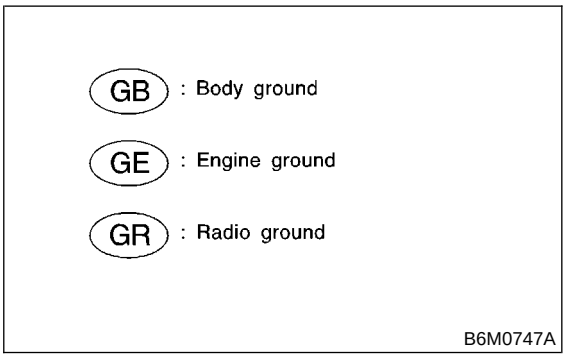
Nominal sectional area mm^2	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32	3.8 (or 3.6)	38
5	65/0.32	4.6 (or 4.4)	51
8	50/0.45	5.5	67

● Each unit is directly grounded to the body or indirectly grounds through a harness ground terminal. Different symbols are used in the wiring diagram to identify the two grounding systems.

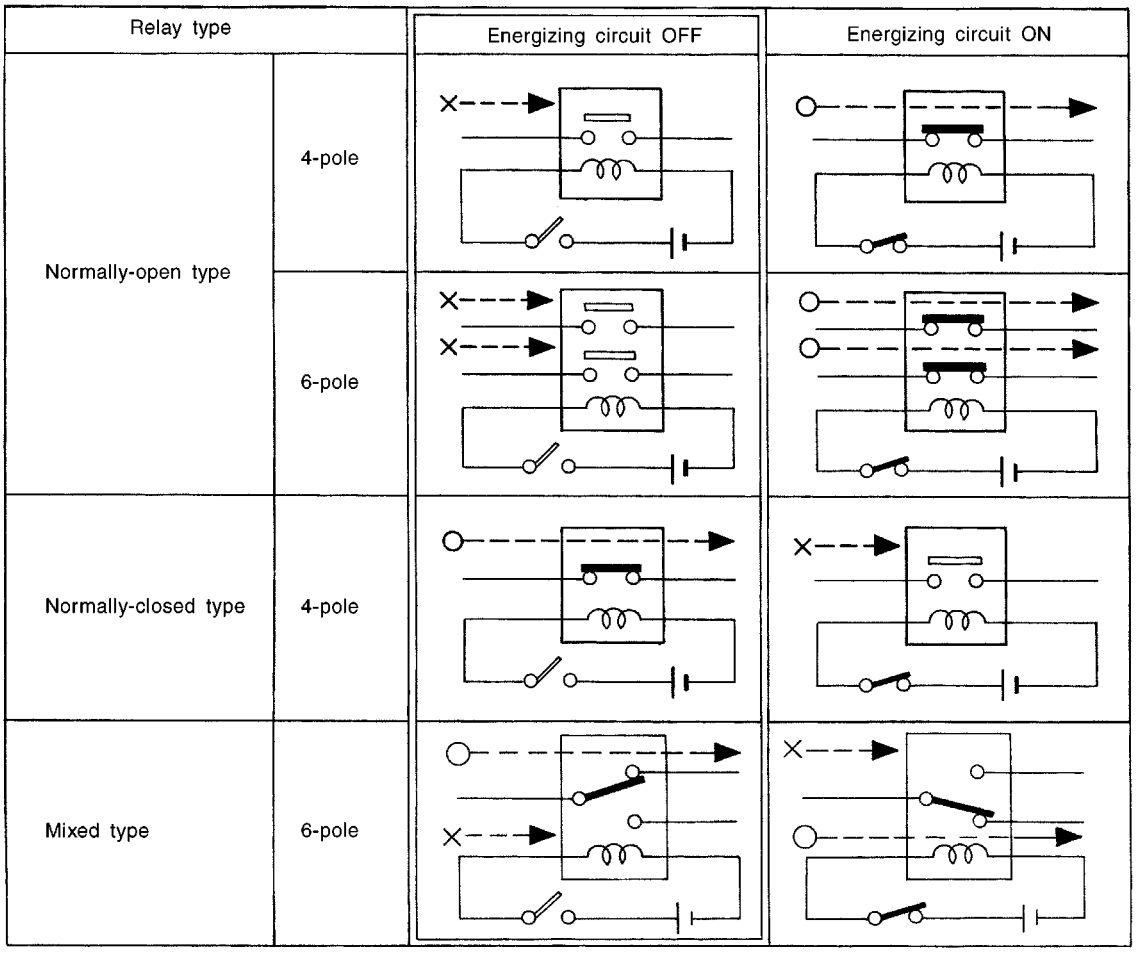


● The ground points shown in the wiring diagram refer to the following:

NOTE:
All wiring harnesses are provided with a ground point which should be securely connected.



● Relays are classified as normally-open or normally-closed. The normally-closed relay has one or more contacts.
The wiring diagram shows the relay mode when the energizing circuit is OFF.



Key to symbols:

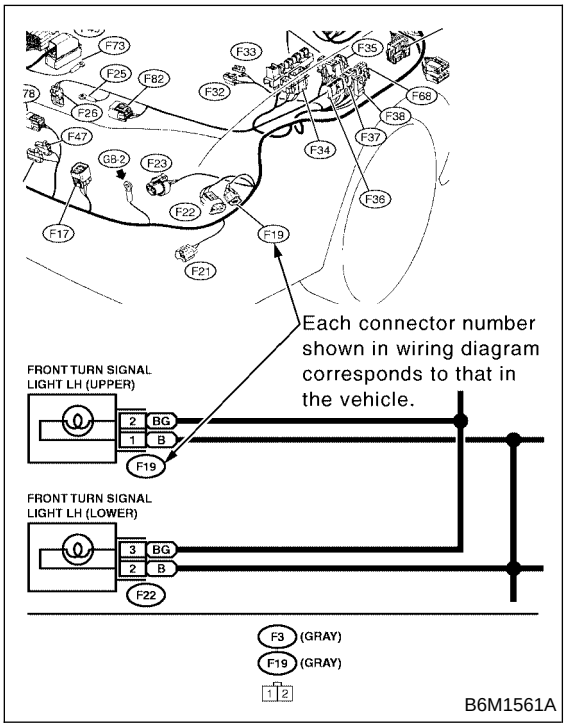
○ ⟶ : Current flows.

× ⟶ : Current does not flow.

B6M0748

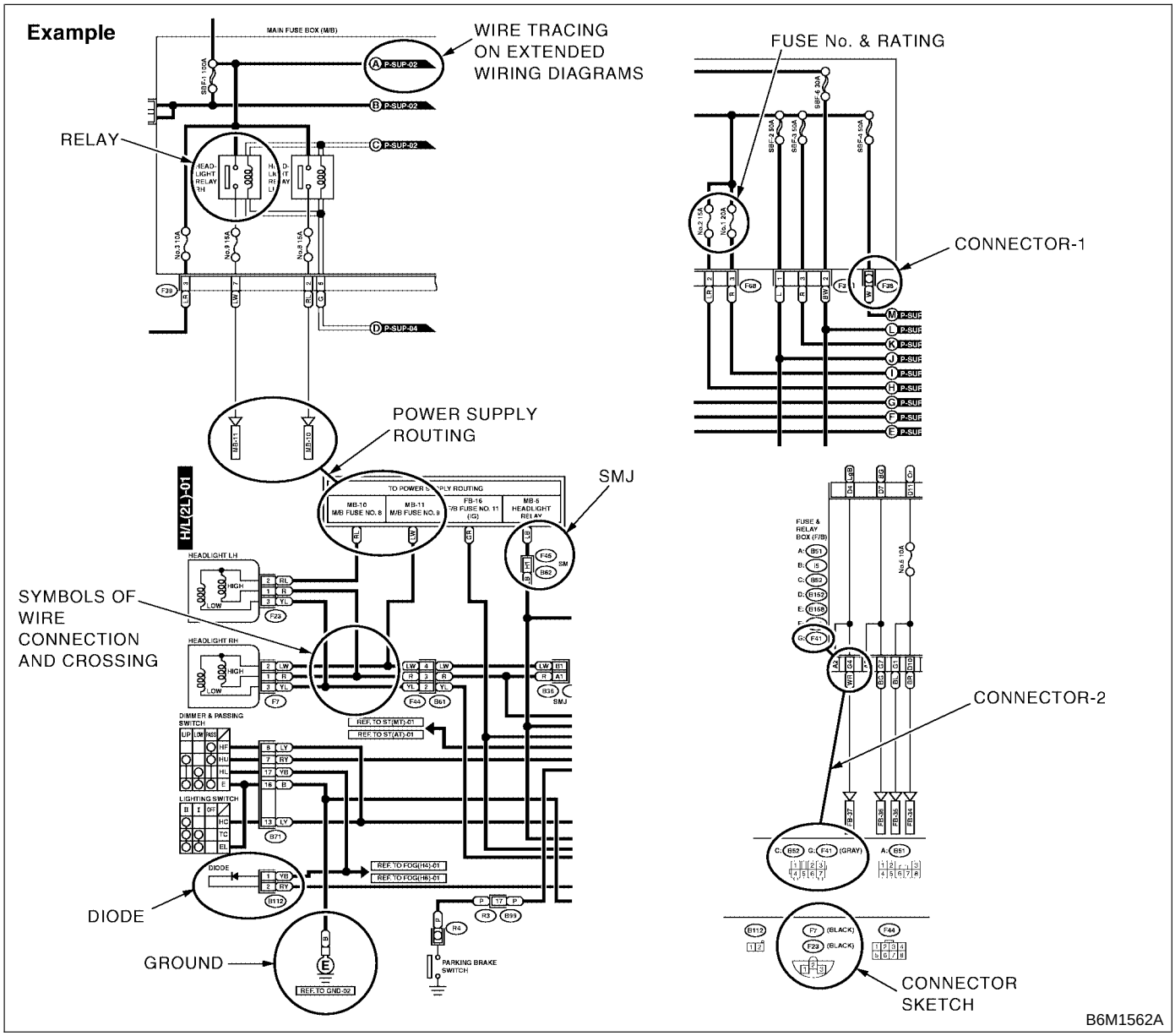
● Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a “F” for F8, “i” for i16, etc.) and the type of wiring harness.
The first character of each connector number refers to the area or system of the vehicle.

Symbol	Wiring harness and cord
F	Front wiring harness
B	Bulkhead wiring harness
E	Engine wiring harness
T	Transmission cord
D	Door cord LH & RH, Rear door cord LH & RH
i	Instrument panel wiring harness
R	Rear wiring harness, Fuel tank cord, Roof cord, Rear gate code



D: SYMBOLS IN WIRING DIAGRAMS S903627G53

A number of symbols are used in each wiring diagram to easily identify parts or circuits.



1. RELAY S903627G5301

A symbol used to indicate a relay.

2. CONNECTOR-1 S903627G5302

The sketch of the connector indicates the one-pole types.

3. WIRING CONNECTION S903627G5303

Some wiring diagrams are indicated in foldouts for convenience. Wiring destinations are indicated where necessary by corresponding symbols (as when two pages are needed for clear indication).

4. FUSE No. & RATING G903627G5304

The “FUSE No. & RATING” corresponds with that used in the fuse box (main fuse box, fuse and joint box).

5. CONNECTOR-2 S903627G5305

- Each connector is indicated by a symbol.
- Each terminal number is indicated in the corresponding wiring diagram in an abbreviated form.
- For example, terminal number “C2” refers to No. 2 terminal of connector (C: F41) shown in the connector sketch.

6. CONNECTOR SKETCH S903627G5306

● Each connector sketch clearly identifies the shape and color of a connector as well as terminal locations. Non-colored connectors are indicated in natural color.
● When more than two types of connector number are indicated in a connector sketch, it means that the same type connectors are used.

7. GROUND S903627G5307

Each grounding point can be located easily by referring to the corresponding wiring harness.

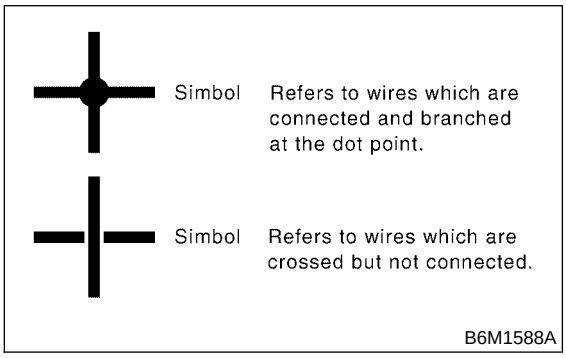
8. DIODE S903627G5308

A symbol is used to indicate a diode.

9. WIRE TRACING ON EXTENDED WIRING DIAGRAMS S903627G5309

For a wiring diagram extending over at least two pages, a symbol (consisting of the same characters with arrows), facilitates wire tracing from one page to the next.
A ←→ A, B ←→ B

10. SYMBOLS OF WIRE CONNECTION AND CROSSING S903627G5310



11. POWER SUPPLY ROUTING S903627G5311

A symbol is used to indicate the power supply in each wiring diagram.
“MB-5”, “MB-6”, etc., which are used as power-supply symbols throughout the text, correspond with those shown in the POWER SUPPLY ROUTING in the wiring diagram.
Accordingly, using the POWER SUPPLY ROUTING and wiring diagrams permits service personnel to understand the entire electrical arrangement of a system.

E: ABBREVIATION IN WIRING DIAGRAMS S903627G54

Abbr.	Full name
ABS	Antilock Brake System
ACC	Accessory
A/C	Air Conditioning
AD	Auto Down
AT	Automatic Transmission
AU	Auto Up
+B	Battery
DN	Down
E	Ground
F/B	Fuse & Joint Box
FL1.5	Fusible link 1.5 mm^2
IG	Ignition
Illumi.	Illumination
LH	Left Hand
Lo	Low
M	Motor
M/B	Main Fuse Box
MG	Magnet
Mi	Middle
OP	Optional Parts
PASS	Passing
RH	Right Hand
SBF	Slow Blow Fuse
ST	Starter
SW	Switch
UP	Up
WASH	Washer

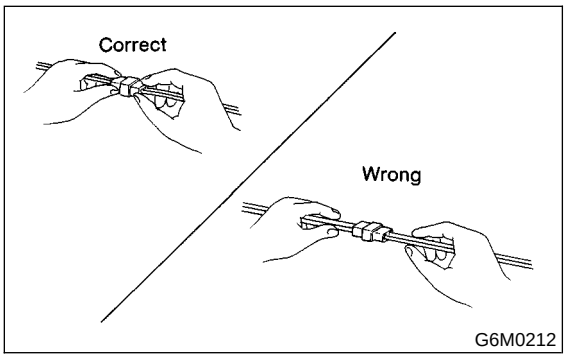
2. Working Precautions S903706

A: PRECAUTIONS WHEN WORKING WITH THE PARTS MOUNTED ON THE VEHICLE S903706G38

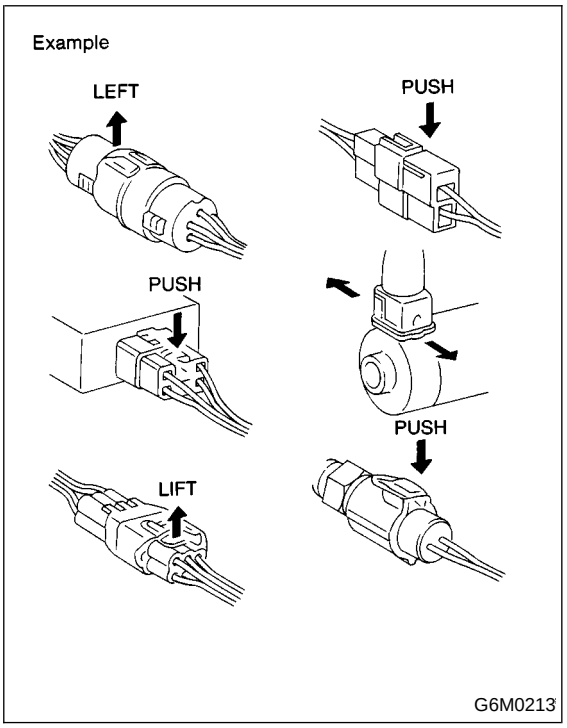
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running the engine. Further, be careful not to touch the belt or fan while the engine is operating.
4) Be careful not to touch hot metal parts, especially the radiator and exhaust system immediately after the engine has been shut off.

B: PRECAUTIONS IN TROUBLE DIAGNOSIS AND REPAIR OF ELECTRIC PARTS S903706G39

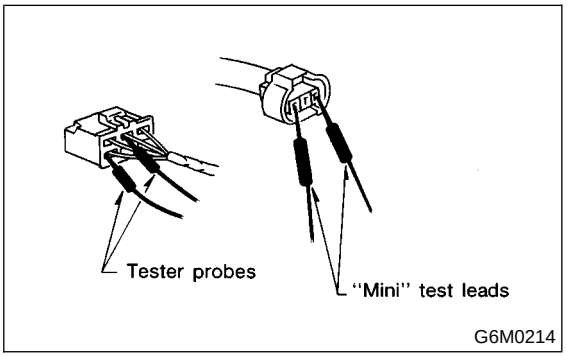
1) The battery cable must be disconnected from the battery's (−) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts or edges and bolts or screws.
3) When installing parts, be careful not to catch them on the wiring harness.
4) When disconnecting a connector, do not pull the wires, but pull while holding the connector body.



5) Some connectors are provided with a lock. One type of such a connector is disconnected by pushing the lock, and the other, by moving the lock up. In either type the lock shape must be identified before attempting to disconnect the connector.
To connect, insert the connector until it snaps and confirm that it is tightly connected.



6) When checking continuity between connector terminals, or measuring voltage across the terminal and ground, always contact tester probe(s) on terminals from the wiring connection side. If the probe is too thick to gain access to the terminal, use "mini" test leads.
To check waterproof connectors (which are not accessible from the wiring side), contact test probes on the terminal side being careful not to bend or damage the terminals.



7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts.
Handle them with care so that they are not dropped or mishandled.

3. Power Supply Routing S903465

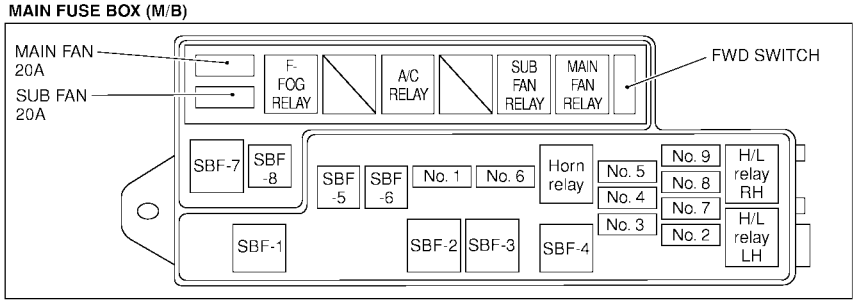
A: SCHEMATIC S903465A21

1. LHD MODEL S903465A2101

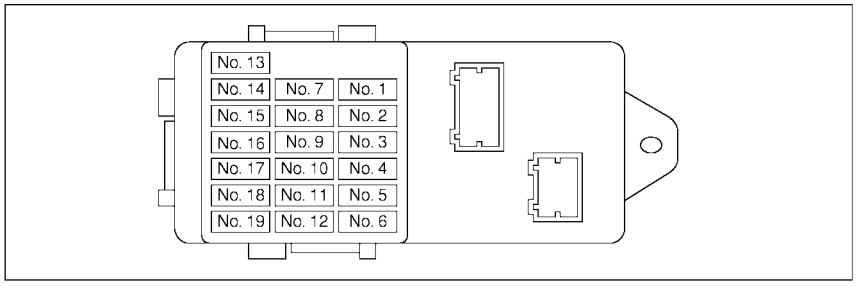
P-SUP(L)-01

P-SUP(L)-01

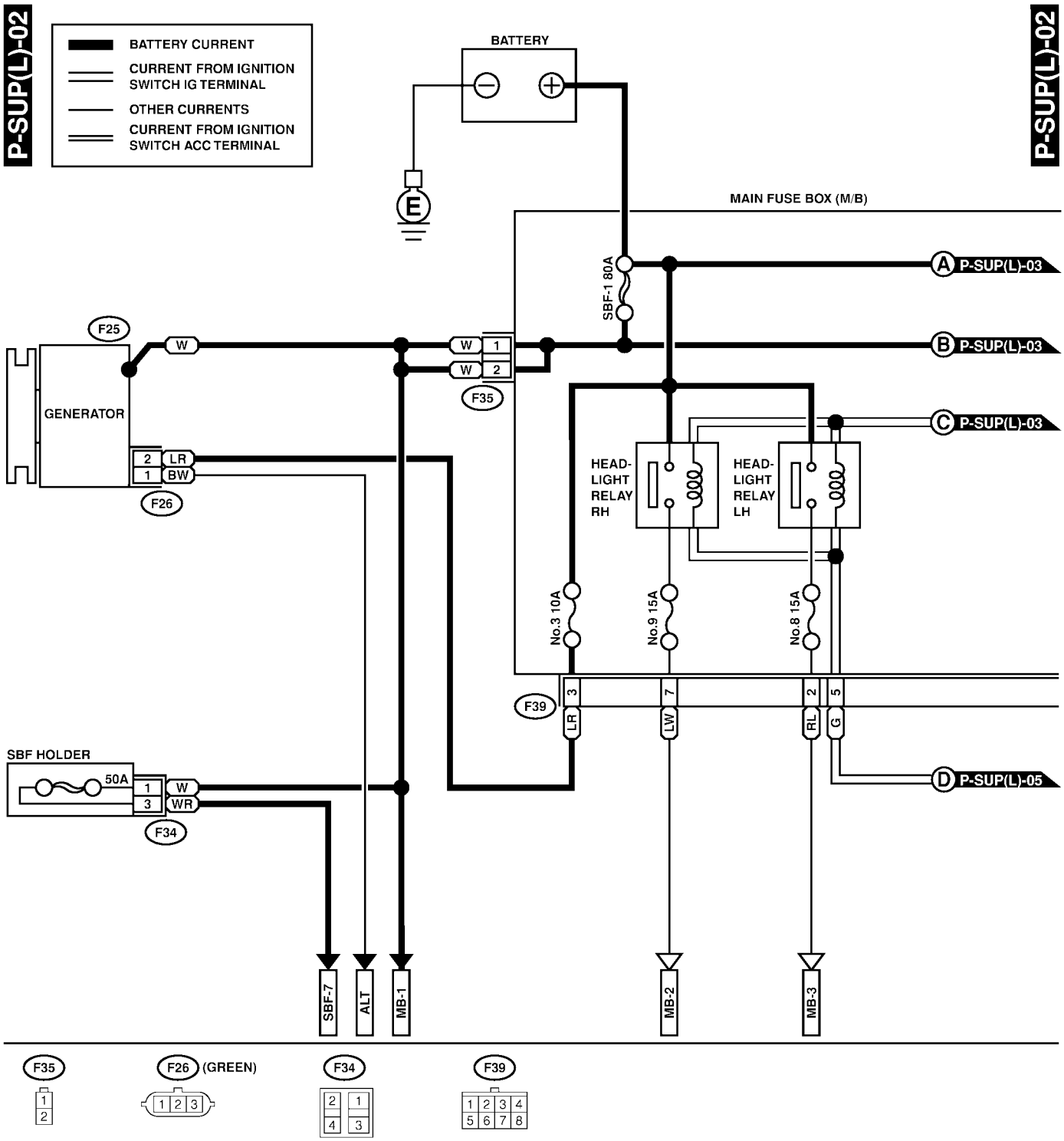
MAIN FUSE BOX (M/B)



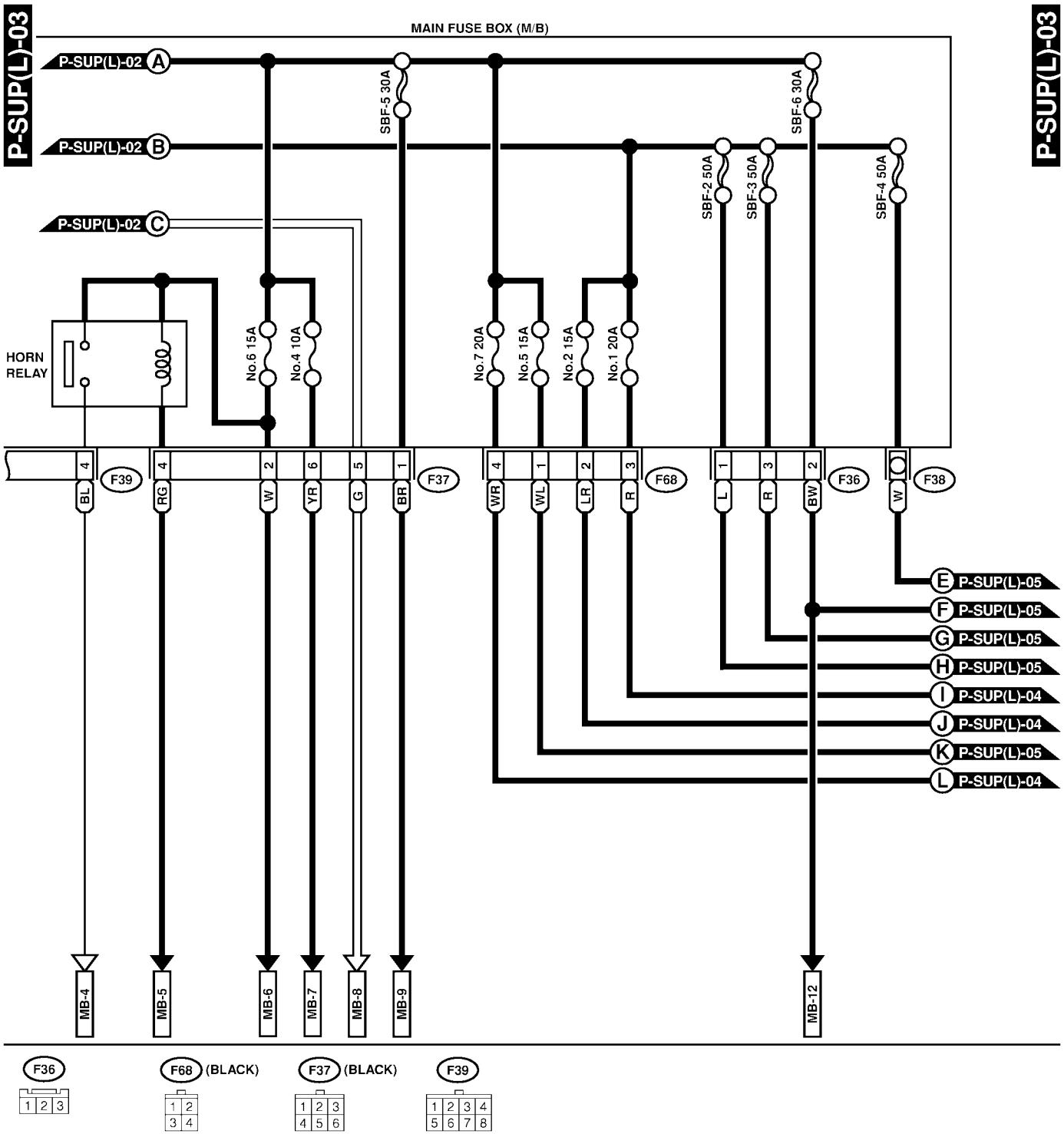
FUSE & RELAY BOX (F/B)



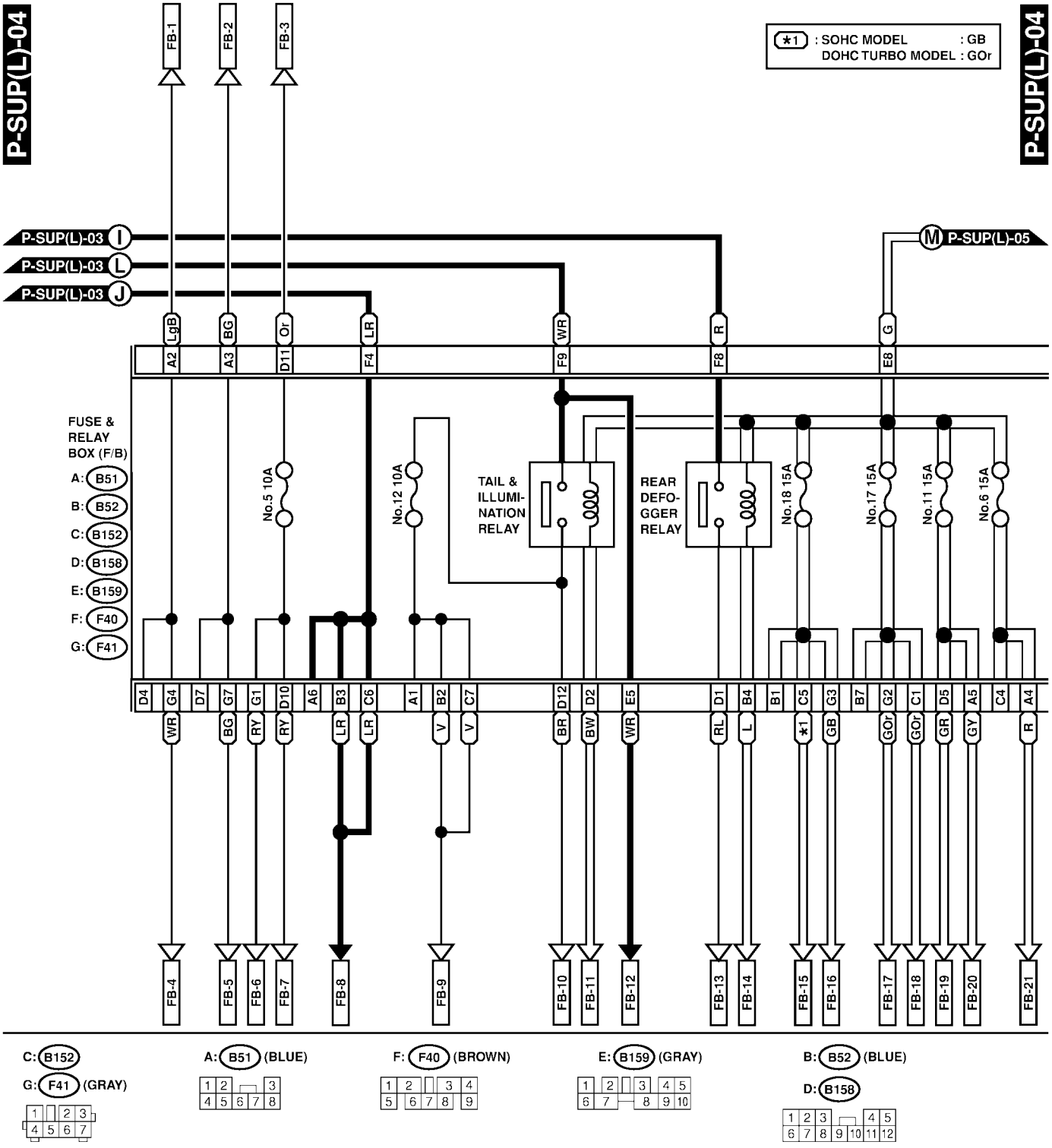
SL01-20A


P-SUP(L)-02
BATTERY CURRENT
CURRENT FROM IGNITION SWITCH IG TERMINAL
OTHER CURRENTS
CURRENT FROM IGNITION SWITCH ACC TERMINAL
BATTERY
E
MAIN FUSE BOX (M/B)
SBF-1 80A
A P-SUP(L)-03
B P-SUP(L)-03
C P-SUP(L)-03
F25
W
GENERATOR
2 LR
1 BW
F26
W 1
W 2
F35
HEAD-LIGHT RELAY RH
HEAD-LIGHT RELAY LH
No.3 10A
No.9 15A
No.8 15A
F39
3 LR
7 LW
2 RL
5 G
D P-SUP(L)-05
SBF HOLDER
50A
1 W
3 WR
F34
SBF-7
ALT
MB-1
MB-2
MB-3
F35
F26 (GREEN)
F34
F39

SL01-20B

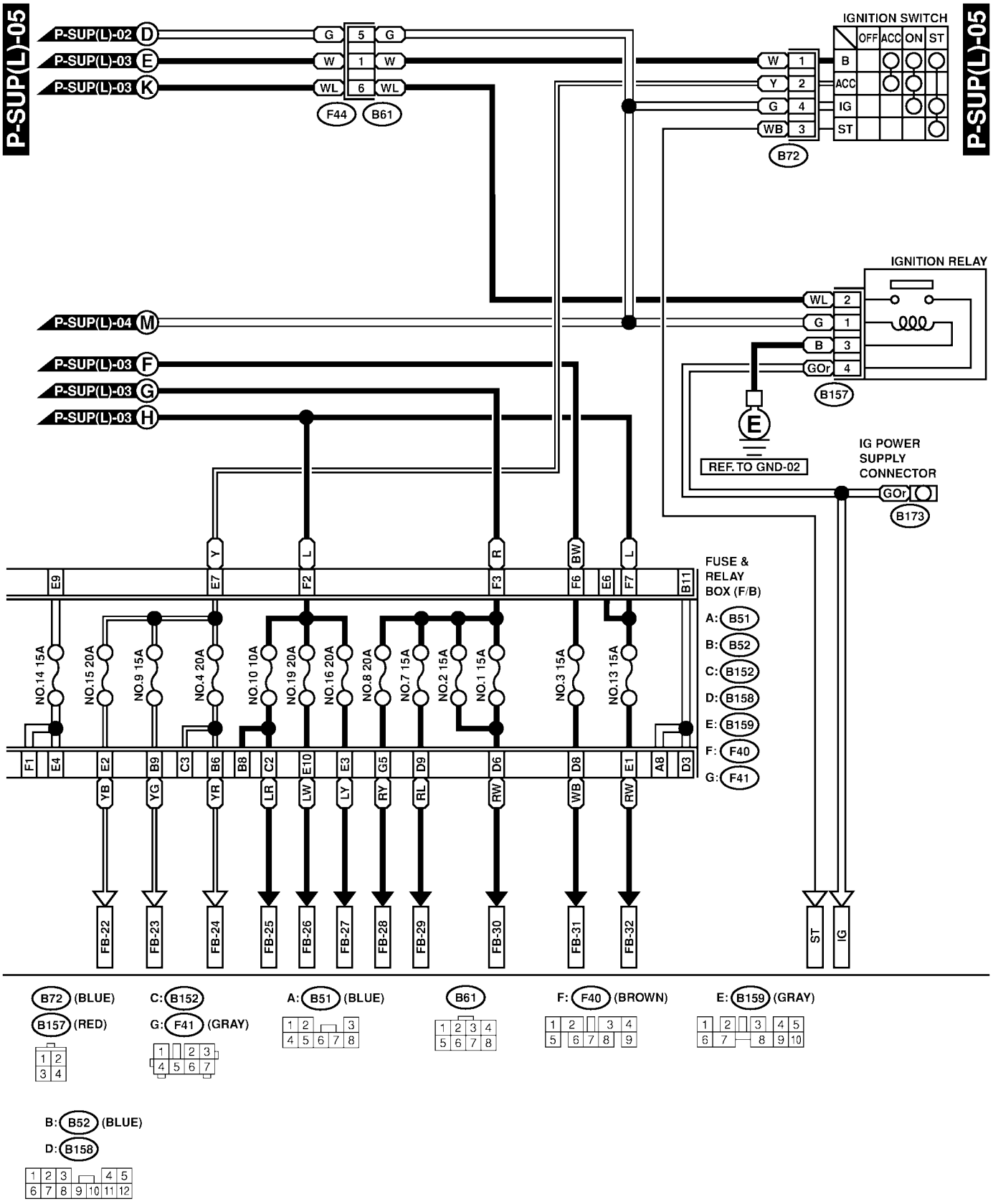

P-SUP(L)-03
MAIN FUSE BOX (M/B)
P-SUP(L)-02 A
P-SUP(L)-02 B
P-SUP(L)-02 C
SBF-5 30A
SBF-6 30A
SBF-2 50A
SBF-3 50A
SBF-4 50A
HORN RELAY
No.6 15A
No.4 10A
No.7 20A
No.5 15A
No.2 15A
No.1 20A
F39
F37
F68
F36
F38
BL
RG
W
YR
G
BR
WR
WL
LR
R
L
R
BW
W
E P-SUP(L)-05
F P-SUP(L)-05
G P-SUP(L)-05
H P-SUP(L)-05
I P-SUP(L)-04
J P-SUP(L)-04
K P-SUP(L)-05
L P-SUP(L)-04
MB-4
MB-5
MB-6
MB-7
MB-8
MB-9
MB-12
F36
F68 (BLACK)
F37 (BLACK)
F39

SL01-20C


P-SUP(L)-04
P-SUP(L)-04
FB-1
FB-2
FB-3
★1 : SOHC MODEL : GB
DOHC TURBO MODEL : GOr
P-SUP(L)-03 I
P-SUP(L)-03 L
P-SUP(L)-03 J
M P-SUP(L)-05
LgB
BG
Or
LR
WR
R
G
A2
A3
D11
F4
F9
F8
E8
FUSE & RELAY BOX (F/B)
A: B51
B: B52
C: B152
D: B158
E: B159
F: F40
G: F41
No.5 10A
No.12 10A
TAIL & ILLUMI-NATION RELAY
REAR DEFO-GGER RELAY
No.18 15A
No.17 15A
No.11 15A
No.6 15A
D4 G4 D7 G7 G1 D10 A6 B3 C6 A1 B2 C7 D12 D2 E5 D1 B4 B1 C5 G3 B7 G2 C1 D5 A5 C4 A4
WR BG RY RY LR LR V V BR BW WR RL L ★1 GB GOr GOr GR GY R
FB-4 FB-5 FB-6 FB-7 FB-8 FB-9 FB-10 FB-11 FB-12 FB-13 FB-14 FB-15 FB-16 FB-17 FB-18 FB-19 FB-20 FB-21
C: B152
G: F41 (GRAY)
A: B51 (BLUE)
F: F40 (BROWN)
E: B159 (GRAY)
B: B52 (BLUE)
D: B158

SL01-20D

POWER SUPPLY ROUTING



SL01-20E

No.	Load
MB-1	A/C relay holder
MB-2	Headlight RH Combination meter
MB-3	Headlight LH
MB-4	Horn
MB-5	Horn switch
MB-6	Hazard switch Key switch Keyless entry control module
MB-7	Transmission control module
MB-8	Diode (With rear fog light) Diode (lighting) Lighting switch
MB-9	Data link connector Engine control module Fuel pump relay Main relay Immobilizer control module
MB-12	Headlight washer module Power window circuit breaker
SBF-7	ABS control module
ALT-1	Combination meter
IG	Check connector Combination meter Hazard switch Headlight washer switch Mirror heater condenser Mirror heater LH Mirror heater RH Power window relay Seatbelt timer Speed warning module Vehicle speed sensor (MT)
ST	Engine control module (AT) Inhibitor switch (AT) Starter motor (AT)
FB-1	Combination meter Hazard switch Rear turn signal light RH Trailer connector Turn signal switch
FB-2	Combination meter Keyless entry control module Hazard switch Turn signal switch Rear turn signal light LH
FB-3	Parking switch
FB-4	Side turn signal light RH Front turn signal light RH
FB-5	Side turn signal light LH Front turn signal light LH
FB-6	Front clearance light LH Front clearance light RH Headlight leveler LH Headlight leveler RH
FB-7	License plate light Trailer connector

No.	Load
FB-8	Combination meter Radio Room light Keyless entry control module Key illumination light Clock Luggage room light Spot light
FB-9	Rear fog light relay Headlight leveling switch Illumination light Illumination control module Front fog light relay Front fog light switch
FB-10	Parking switch
FB-11	Lighting switch
FB-12	Parking switch
FB-13	Rear defogger switch Rear defogger Mirror heater relay
FB-14	Rear defogger
FB-15	Wiper deicer Wiper deicer time Back-up light switch (MT) Inhibitor switch (AT)
FB-16	ABS control module A/C relay holder
FB-17	Air conditioner relay A/C relay holder
FB-18	Mode control panel Blower motor relay Pressure switch Rear defogger switch
FB-19	Fuel pump relay Engine control module Ignition coil and ignitor Transmission control module Immobilizer control module
FB-20	Airbag control module
FB-21	Airbag control module
FB-22	Front washer motor Front wiper motor Front wiper switch Rear wiper motor Rear wiper intermittent module
FB-23	Noise killer Radio Clock
FB-24	Remote rearview mirror switch Seat heater/rear accessory power supply relay Front accessory power supply socket
FB-25	Rear fog light relay
FB-26	Seat heater/rear accessory power supply relay
FB-27	Stop light Stop light switch

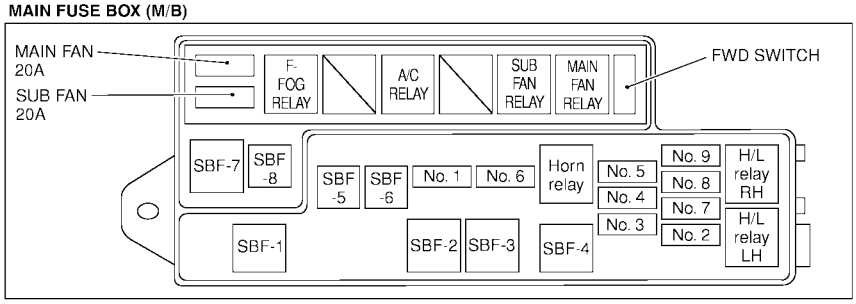
No.	Load
FB-28	ABS control module
FB-29	Front fog light relay
FB-30	Blower motor relay
FB-31	Keyless entry control module
FB-32	Wiper deicer relay

2. RHD MODEL S903465A2102

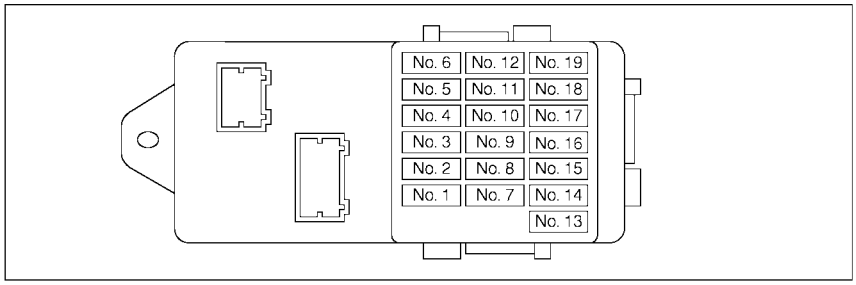
P-SUP(R)-01

P-SUP(R)-01

MAIN FUSE BOX (M/B)

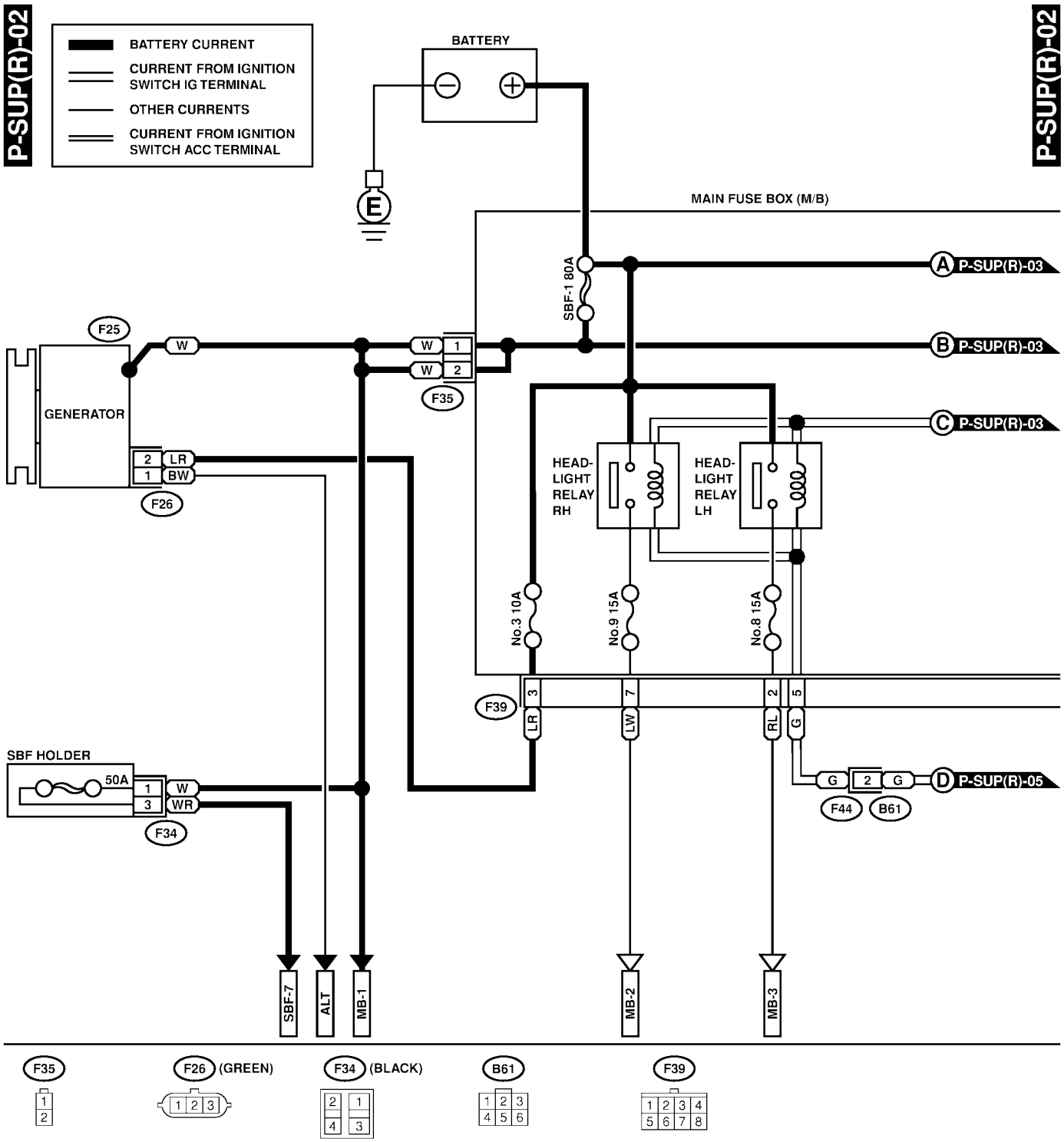


FUSE & RELAY BOX (F/B)

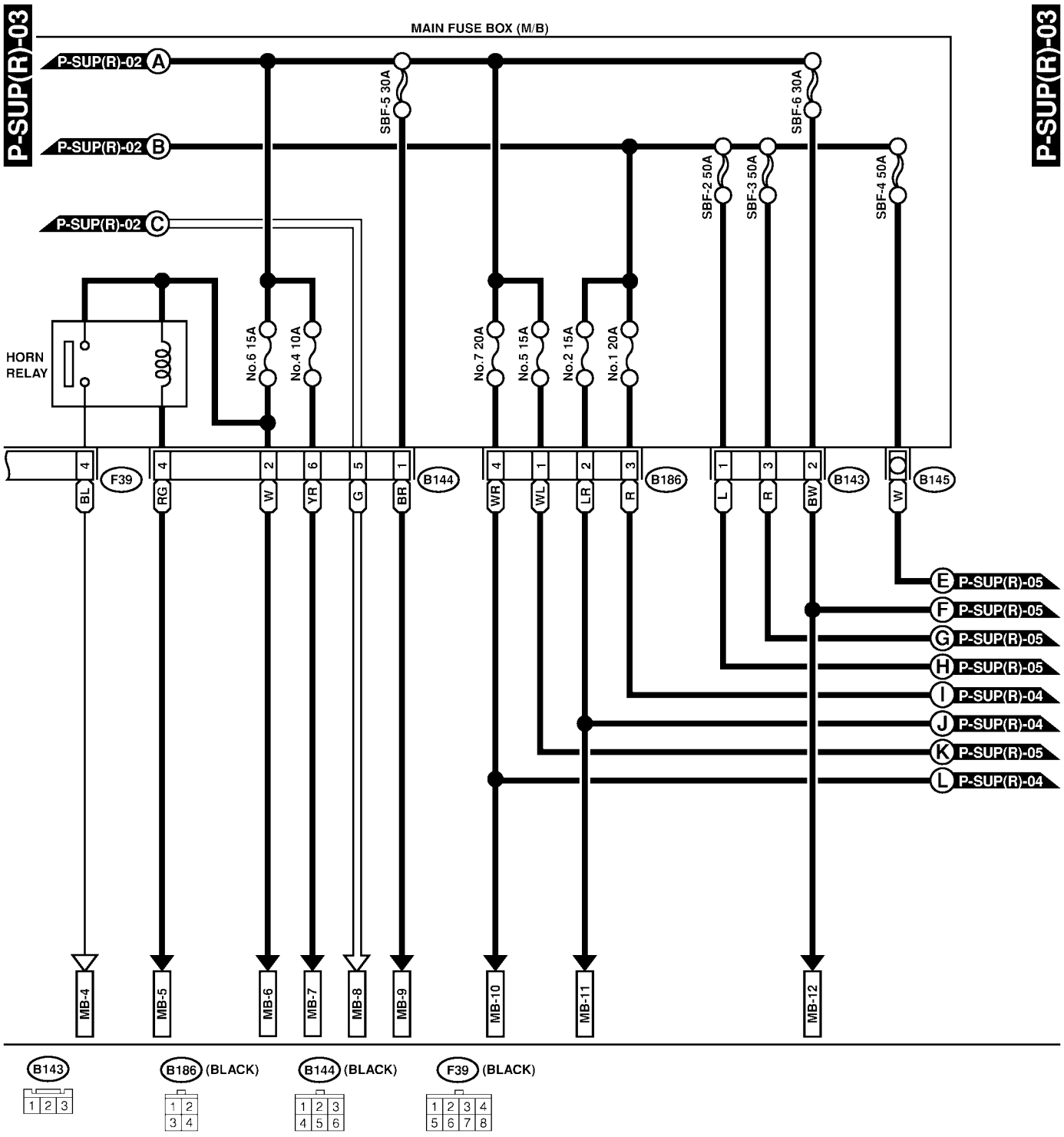


SR01-20A

POWER SUPPLY ROUTING

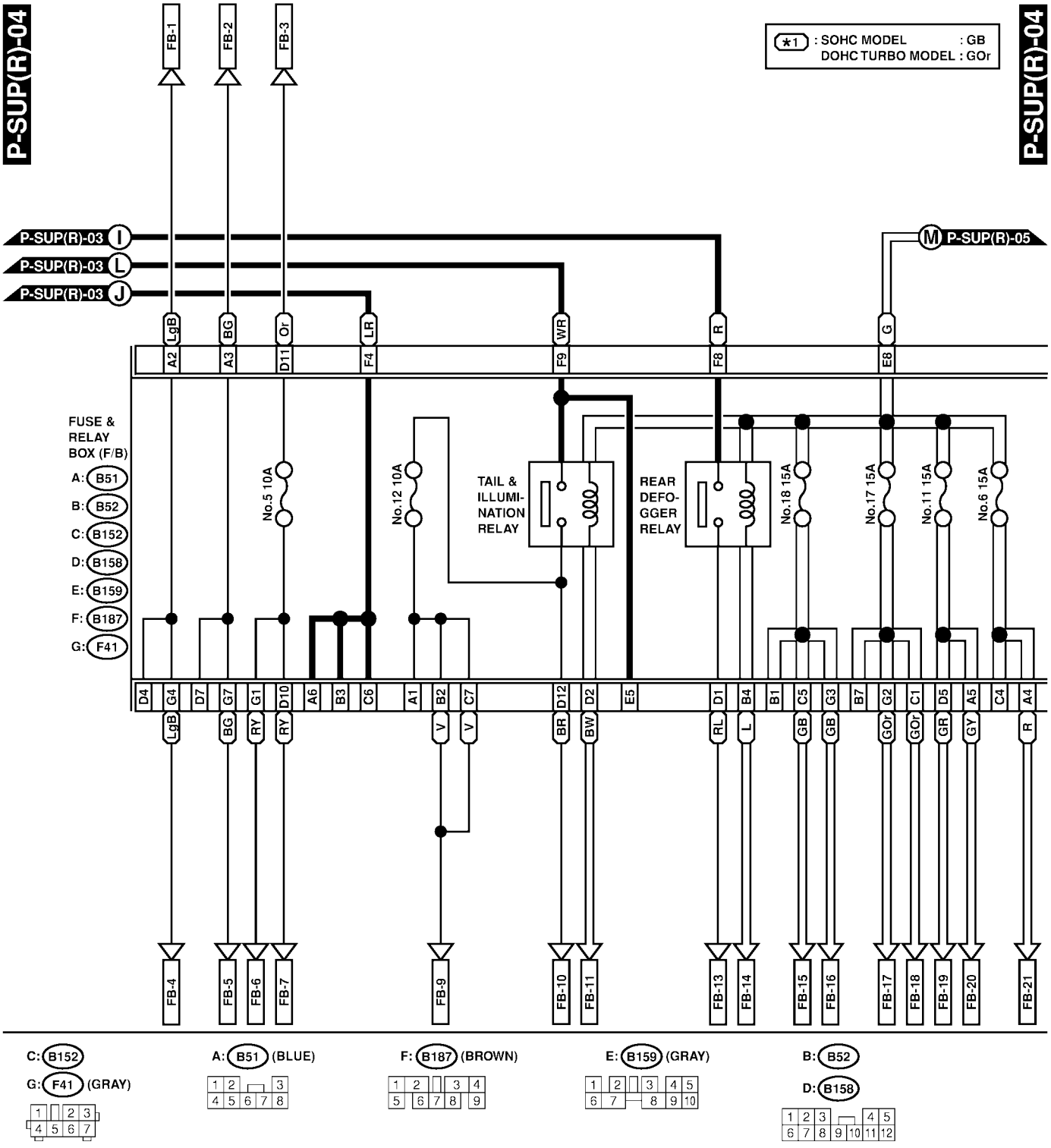


SR01-20B

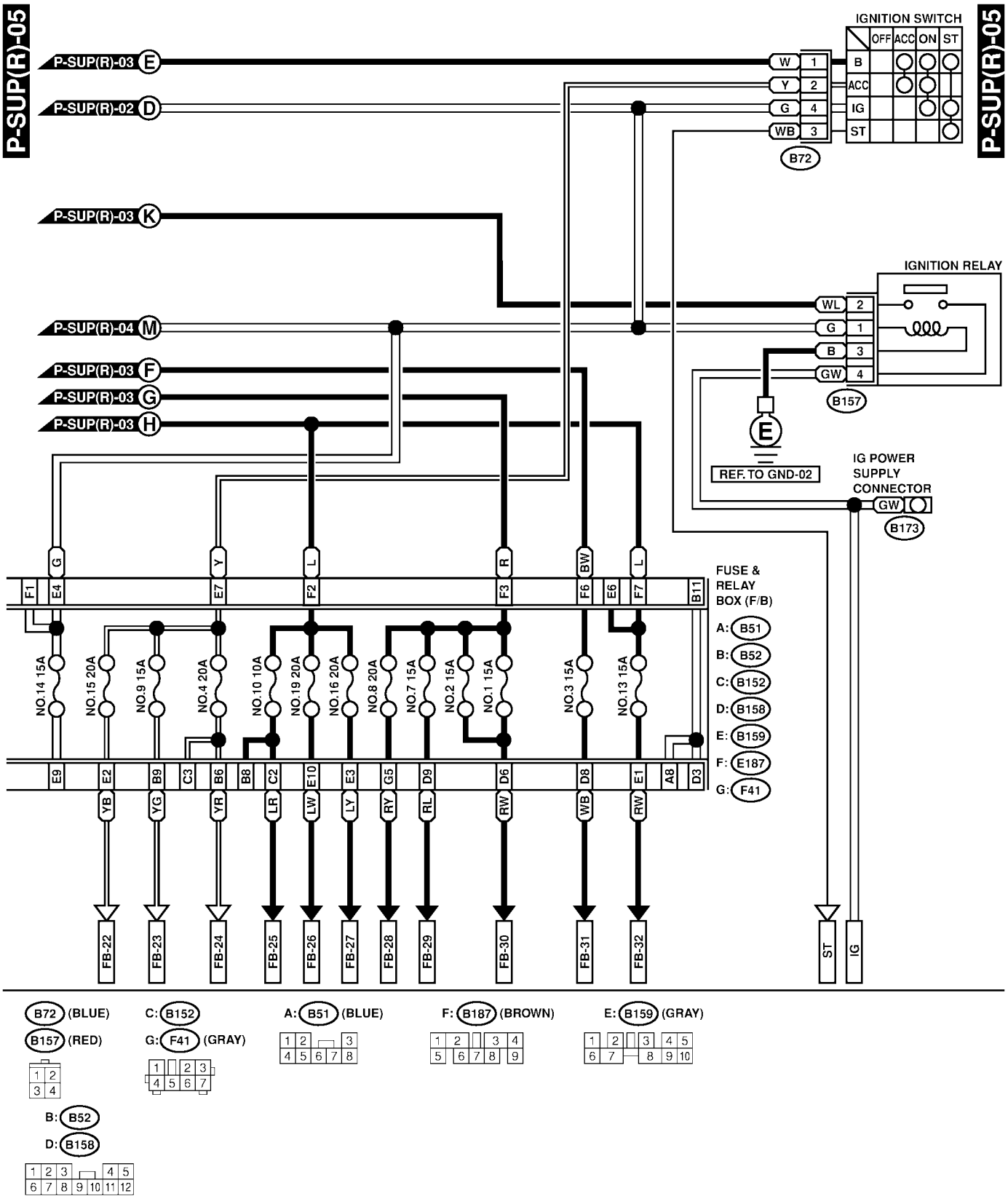

P-SUP(R)-03
MAIN FUSE BOX (M/B)
P-SUP(R)-02 A
P-SUP(R)-02 B
P-SUP(R)-02 C
SBF-5 30A
SBF-6 30A
SBF-2 50A
SBF-3 50A
SBF-4 50A
HORN RELAY
No.6 15A
No.4 10A
No.7 20A
No.5 15A
No.2 15A
No.1 20A
F39
B144
B186
B143
B145
BL
RG
W
YR
G
BR
WR
WL
LR
R
L
R
BW
W
E P-SUP(R)-05
F P-SUP(R)-05
G P-SUP(R)-05
H P-SUP(R)-05
I P-SUP(R)-04
J P-SUP(R)-04
K P-SUP(R)-05
L P-SUP(R)-04
MB-4
MB-5
MB-6
MB-7
MB-8
MB-9
MB-10
MB-11
MB-12
B143
B186 (BLACK)
B144 (BLACK)
F39 (BLACK)

SR01-20C

POWER SUPPLY ROUTING



SR01-20D



B72 (BLUE)
B157 (RED)
C: B152
G: F41 (GRAY)
A: B51 (BLUE)
F: B187 (BROWN)
E: B159 (GRAY)
B: B52
D: B158

SR01-20E

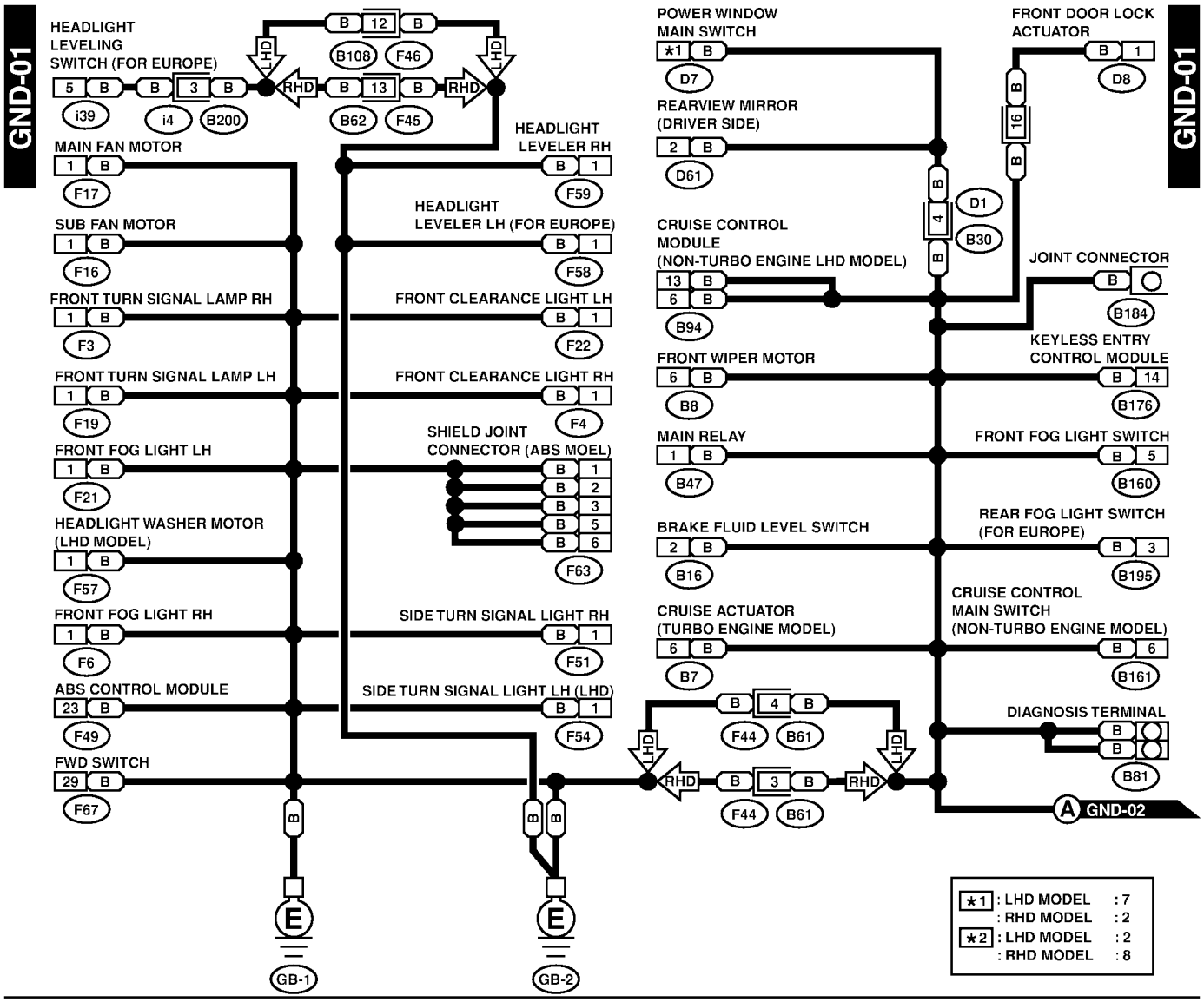
No.	Load
MB-1	A/C relay holder
MB-2	Headlight RH Combination meter
MB-3	Headlight LH
MB-4	Horn
MB-5	Horn switch
MB-6	Hazard switch Key switch Keyless entry control module
MB-7	Transmission control module
MB-8	Diode (With rear fog light) Diode (lighting) Lighting switch
MB-9	Check connector Data link connector Engine control module Fuel pump relay Immobilizer control module Main relay
MB-10	Parking switch
MB-11	Combination meter Radio Room light Keyless entry control module Key illumination light Clock Luggage room light Spot light
MB-12	Headlight washer module Power window circuit breaker
SBF-7	ABS control module
ALT-1	Combination meter
IG	Check connector Combination meter Hazard switch Headlight washer switch Mirror heater condenser Mirror heater LH Mirror heater RH Power window relay Seatbelt timer Speed warning module Vehicle speed sensor (MT)
ST	Engine control module (AT) Inhibitor switch (AT) Starter motor (AT)
FB-1	Combination meter Trailer connector Rear turn signal light RH Hazard switch Turn signal switch Keyless entry control module

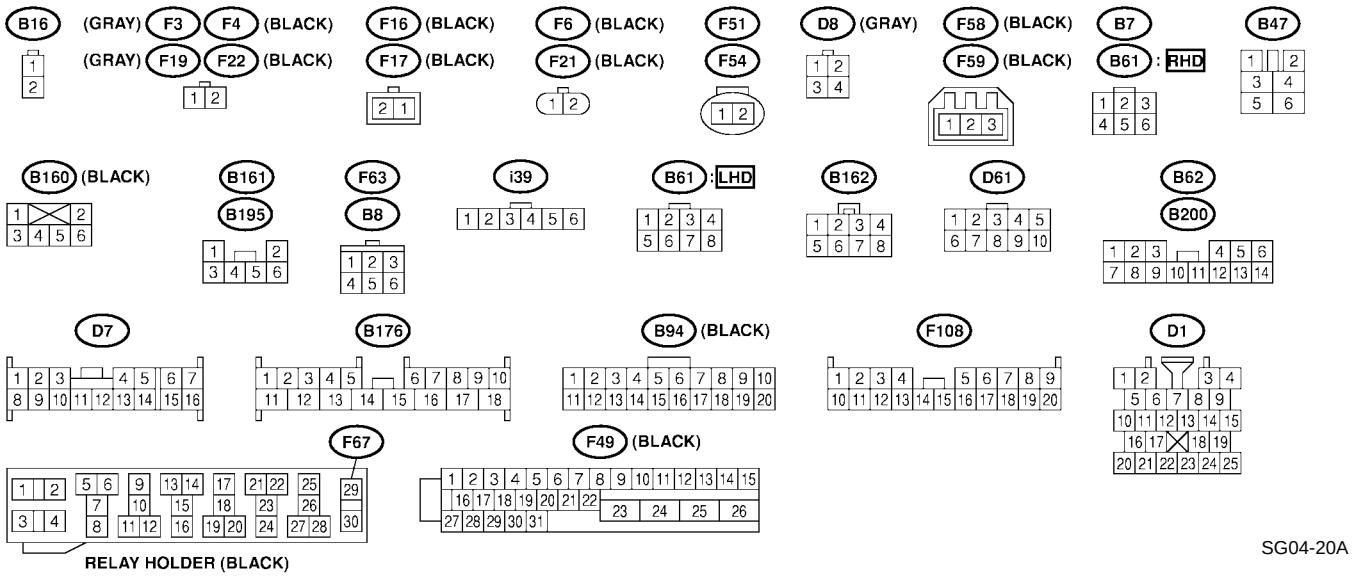
No.	Load
FB-2	Combination meter Keyless entry control module Hazard switch Turn signal switch Trailer connector Side turn signal light LH Rear turn signal light LH Front turn signal light RH
FB-3	Parking switch
FB-4	Side turn signal light RH Front turn signal light RH
FB-5	Front turn signal light LH
FB-6	Front clearance light LH Front clearance light RH Headlight leveler LH Headlight leveler RH
FB-7	License plate light Trailer connector
FB-9	Rear fog light relay Headlight leveling switch Illumination light Illumination control module Front fog light relay Front fog light switch
FB-10	Parking switch
FB-11	Lighting switch
FB-13	Rear defogger switch Rear defogger Mirror heater relay
FB-14	Rear defogger
FB-15	Back-up light switch (MT) Inhibitor switch (AT) Wiper deicer Wiper deicer timer
FB-16	ABS control module A/C relay holder
FB-17	Air conditioner relay A/C relay holder Power window relay
FB-18	Mode control panel Blower motor relay Pressure switch Rear defogger switch
FB-19	Fuel pump relay Engine control module Ignition coil and ignitor Transmission control module Immobilizer control module
FB-20	Airbag control module
FB-21	Airbag control module
FB-22	Front washer motor Front wiper motor Front wiper switch Rear wiper motor Rear wiper intermittent module

No.	Load
FB-23	Noise killer Radio Clock
FB-24	Remote rearview mirror switch Seat heater/rear accessory power supply relay Front accessory power supply socket
FB-25	Rear fog light relay
FB-26	Seat heater/rear accessory power supply relay
FB-27	Stop light Stop light switch
FB-28	ABS control module
FB-29	Front fog light relay
FB-30	Blower motor relay
FB-31	Keyless entry control module
FB-32	Wiper deicer relay

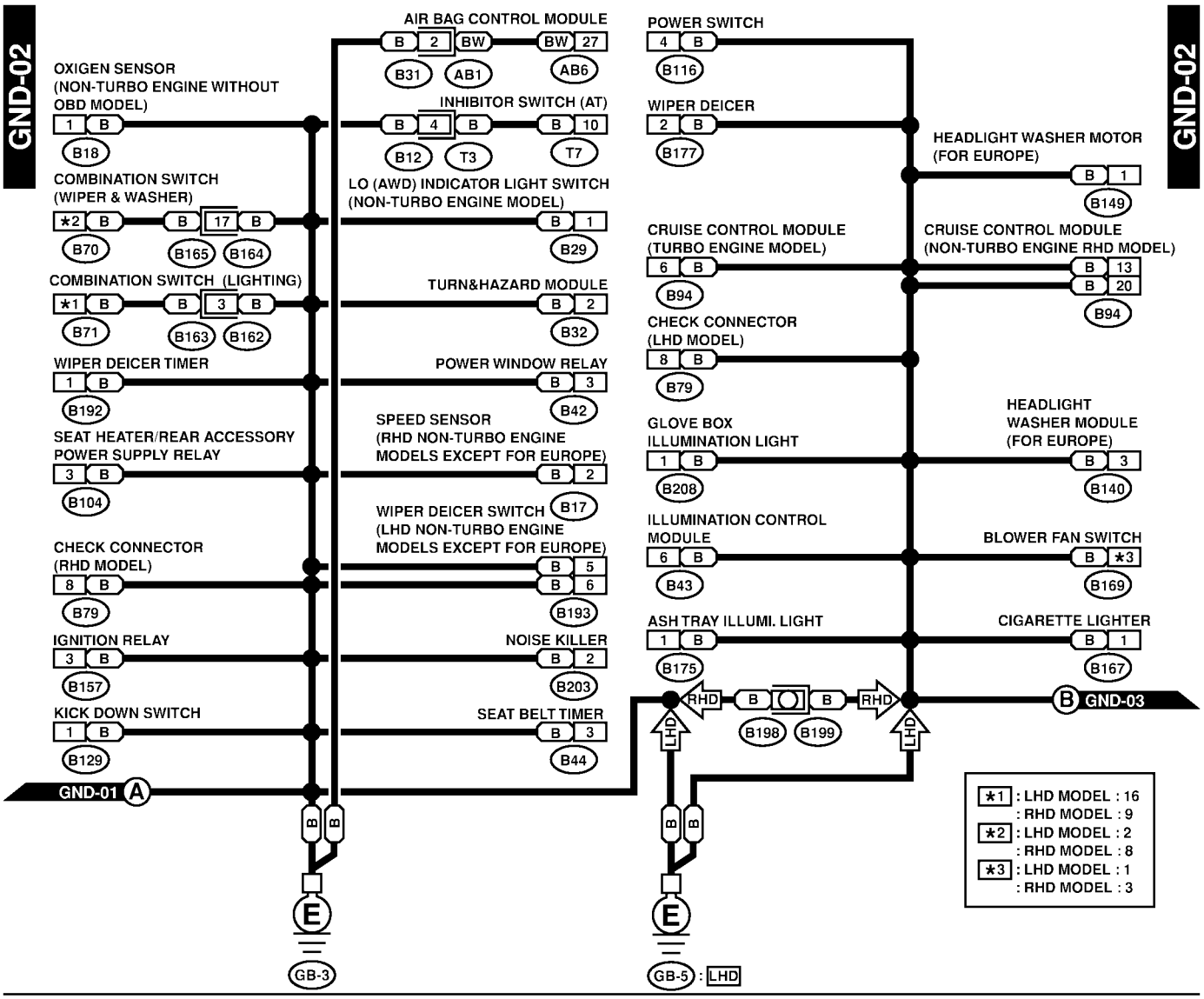
4. Ground Distribution S903472

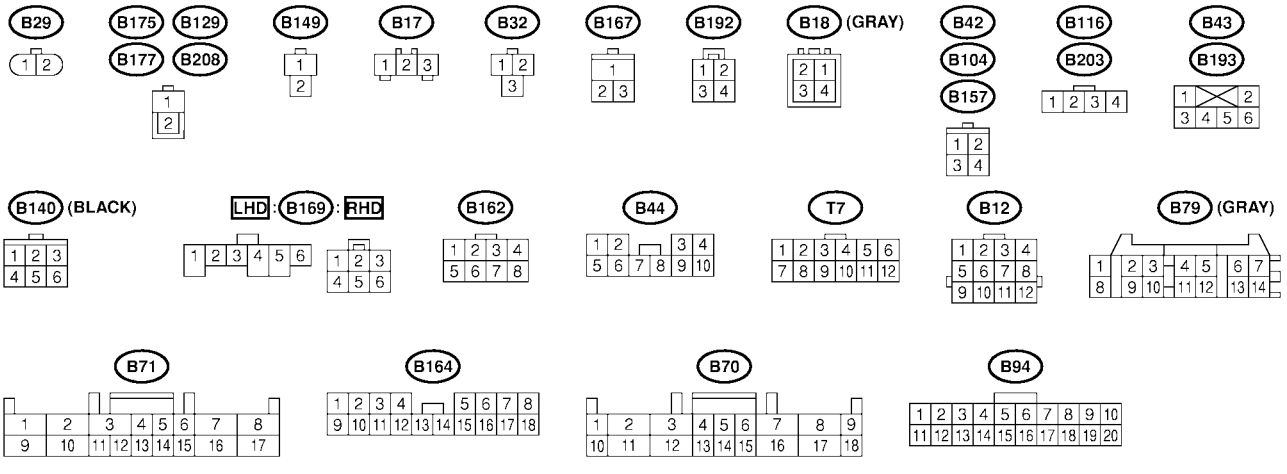
A: SCHEMATIC S903472A21





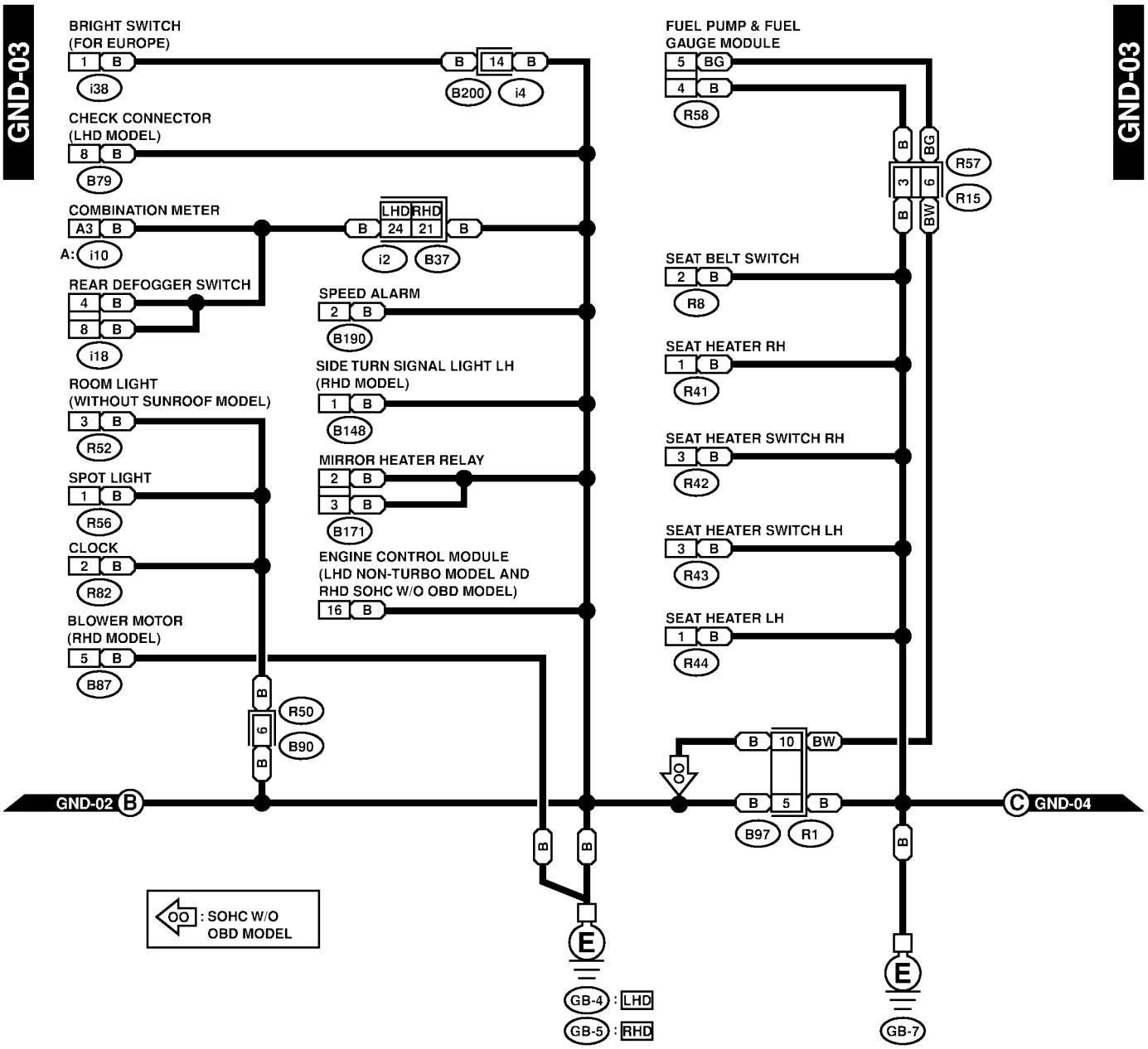
SG04-20A

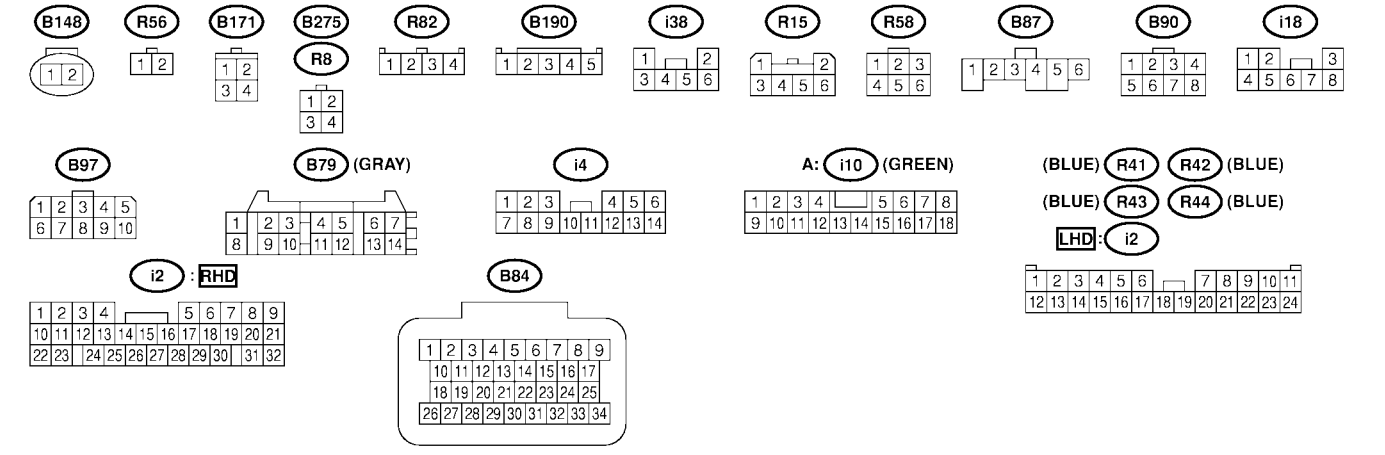

GND-02
GND-02
AIR BAG CONTROL MODULE
B 2 BW
BW 27
B31
AB1
AB6
OXIGEN SENSOR
(NON-TURBO ENGINE WITHOUT
OBD MODEL)
1 B
B18
INHIBITOR SWITCH (AT)
B 4 B
B 10
B12
T3
T7
COMBINATION SWITCH
(WIPER & WASHER)
*2 B
B 17 B
B70
B165
B164
LO (AWD) INDICATOR LIGHT SWITCH
(NON-TURBO ENGINE MODEL)
B 1
B29
COMBINATION SWITCH (LIGHTING)
*1 B
B 3 B
B71
B163
B162
TURN&HAZARD MODULE
B 2
B32
WIPER DEICER TIMER
1 B
B192
POWER WINDOW RELAY
B 3
B42
SEAT HEATER/REAR ACCESSORY
POWER SUPPLY RELAY
3 B
B104
SPEED SENSOR
(RHD NON-TURBO ENGINE
MODELS EXCEPT FOR EUROPE)
B 2
WIPER DEICER SWITCH
(LHD NON-TURBO ENGINE
MODELS EXCEPT FOR EUROPE)
B17
CHECK CONNECTOR
(RHD MODEL)
8 B
B79
B 5
B 6
B193
IGNITION RELAY
3 B
B157
NOISE KILLER
B 2
B203
KICK DOWN SWITCH
1 B
B129
SEAT BELT TIMER
B 3
B44
GND-01 A
B B
E
GB-3
POWER SWITCH
4 B
B116
WIPER DEICER
2 B
B177
HEADLIGHT WASHER MOTOR
(FOR EUROPE)
B 1
B149
CRUISE CONTROL MODULE
(TURBO ENGINE MODEL)
6 B
B94
CRUISE CONTROL MODULE
(NON-TURBO ENGINE RHD MODEL)
B 13
B 20
B94
CHECK CONNECTOR
(LHD MODEL)
8 B
B79
HEADLIGHT
WASHER MODULE
(FOR EUROPE)
GLOVE BOX
ILLUMINATION LIGHT
1 B
B208
B 3
B140
ILLUMINATION CONTROL
MODULE
6 B
B43
BLOWER FAN SWITCH
B *3
B169
ASH TRAY ILLUMI. LIGHT
1 B
B175
CIGARETTE LIGHTER
B 1
B167
RHD
B
B
RHD
B GND-03
LHD
B198
B199
LHD
B B
E
GB-5 : LHD
*1 : LHD MODEL : 16
: RHD MODEL : 9
*2 : LHD MODEL : 2
: RHD MODEL : 8
*3 : LHD MODEL : 1
: RHD MODEL : 3


B29
B175
B129
B177
B208
B149
B17
B32
B167
B192
B18 (GRAY)
B42
B104
B157
B116
B203
B43
B193
B140 (BLACK)
LHD : B169 : RHD
B162
B44
T7
B12
B79 (GRAY)
B71
B164
B70
B94

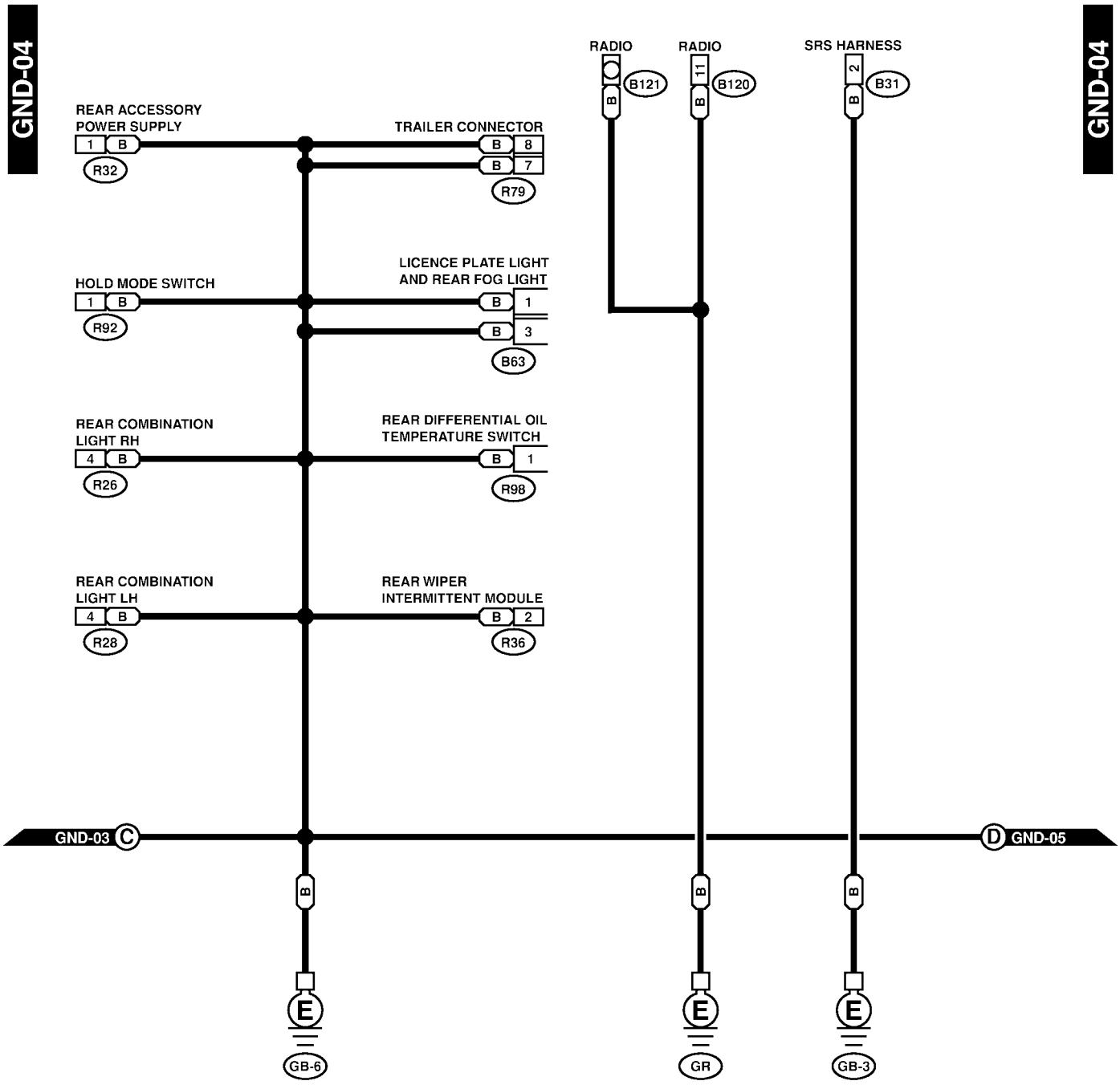
SG04-20B

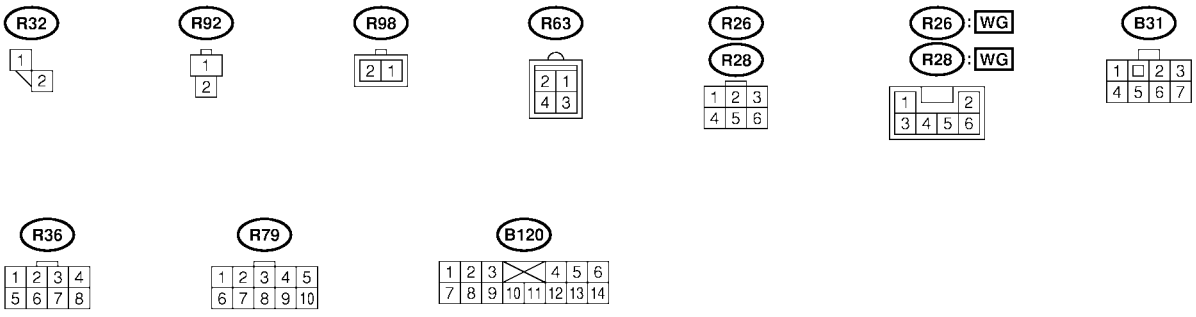
GROUND DISTRIBUTION





SG04-20C


GND-04
GND-04
REAR ACCESSORY POWER SUPPLY
1 B
R32
TRAILER CONNECTOR
B 8
B 7
R79
HOLD MODE SWITCH
1 B
R92
LICENCE PLATE LIGHT AND REAR FOG LIGHT
B 1
B 3
B63
REAR COMBINATION LIGHT RH
4 B
R26
REAR DIFFERENTIAL OIL TEMPERATURE SWITCH
B 1
R98
REAR COMBINATION LIGHT LH
4 B
R28
REAR WIPER INTERMITTENT MODULE
B 2
R36
RADIO
B121
RADIO
11
B120
SRS HARNESS
2
B31
GND-03 C
D GND-05
B
E
GB-6
GR
GB-3


R32
R92
R98
R63
R26
R28
R26 : WG
R28 : WG
B31

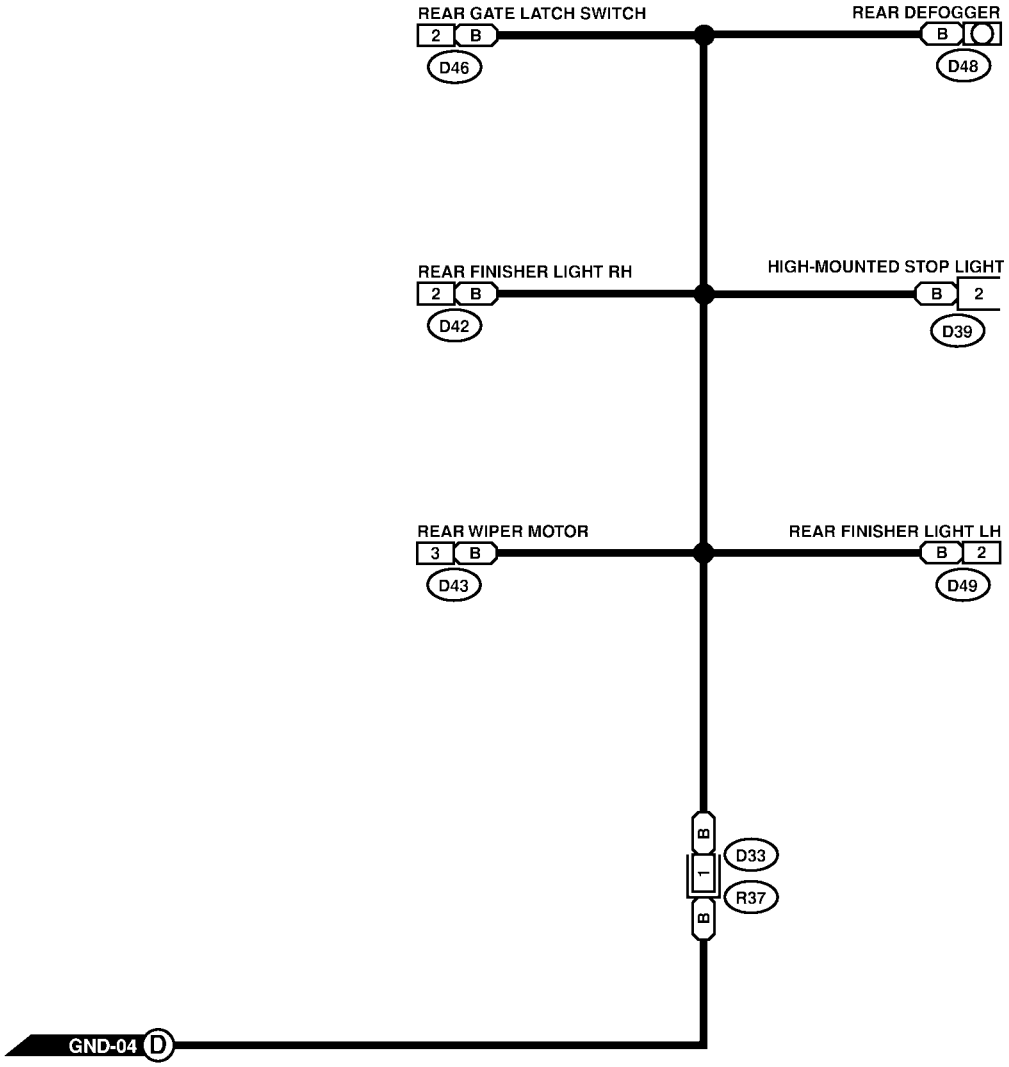
R36
R79
B120

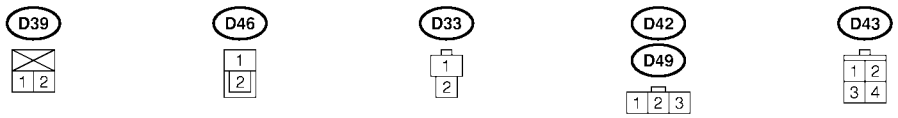
SG04-20D

GROUND DISTRIBUTION

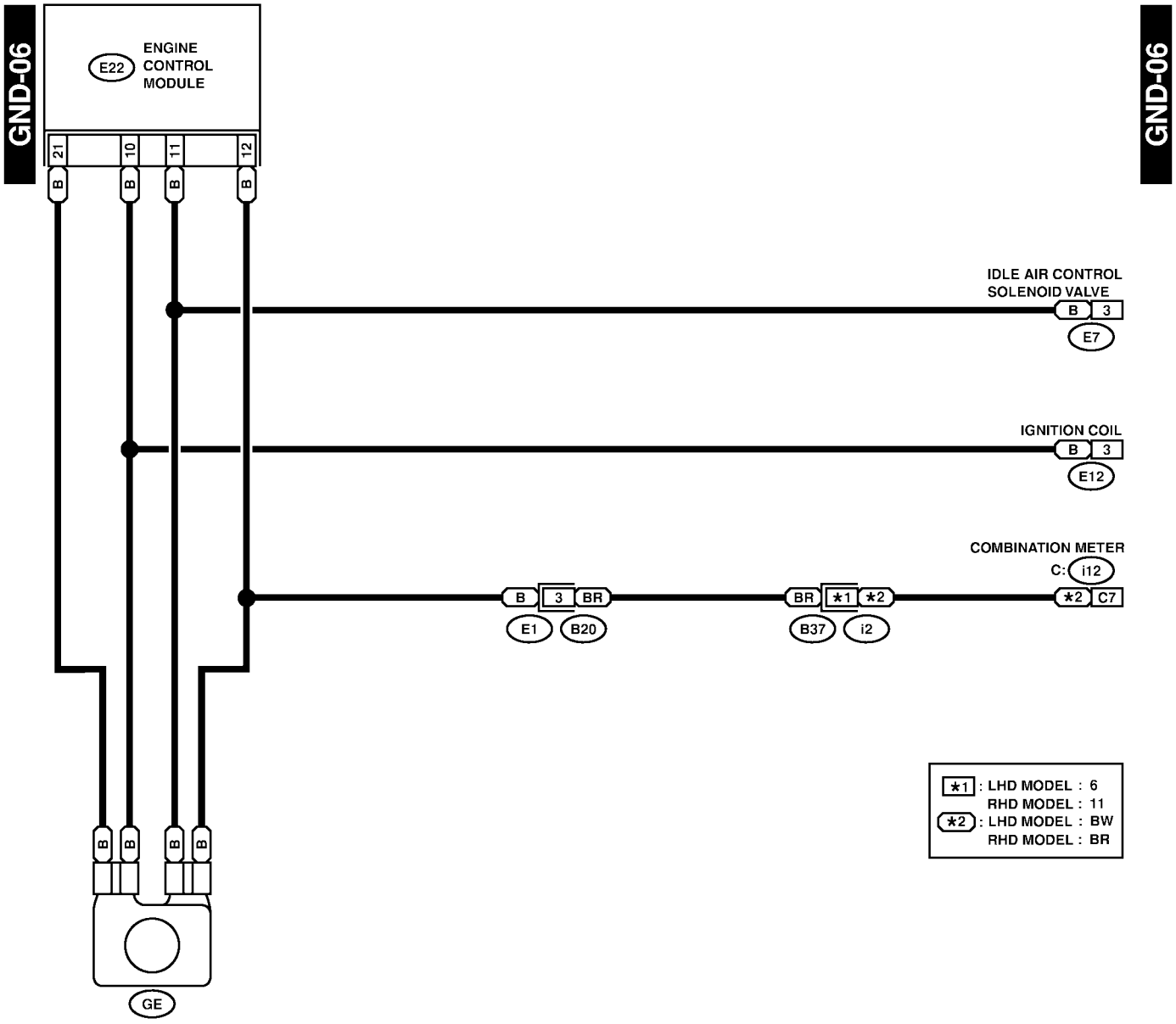
GND-05

GND-05

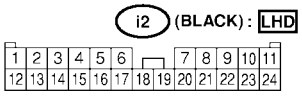


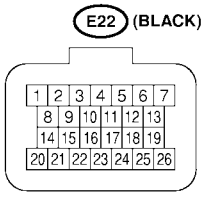


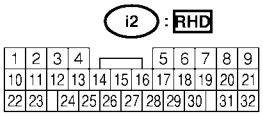
SG04-20E


GND-06
GND-06
E22
ENGINE CONTROL MODULE
21
10
11
12
B
IDLE AIR CONTROL SOLENOID VALVE
B 3
E7
IGNITION COIL
B 3
E12
COMBINATION METER
C: i12
B 3 BR
E1 B20
BR ★1 ★2
B37 i2
★2 C7
★1 : LHD MODEL : 6
RHD MODEL : 11
★2 : LHD MODEL : BW
RHD MODEL : BR
GE


E7 (LIGHT GRAY)
1 2 3
E12 (GRAY)
1 2 3 4
B20 (GRAY)
1 2 3
4 5 6
C: i12 (GREEN)
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16

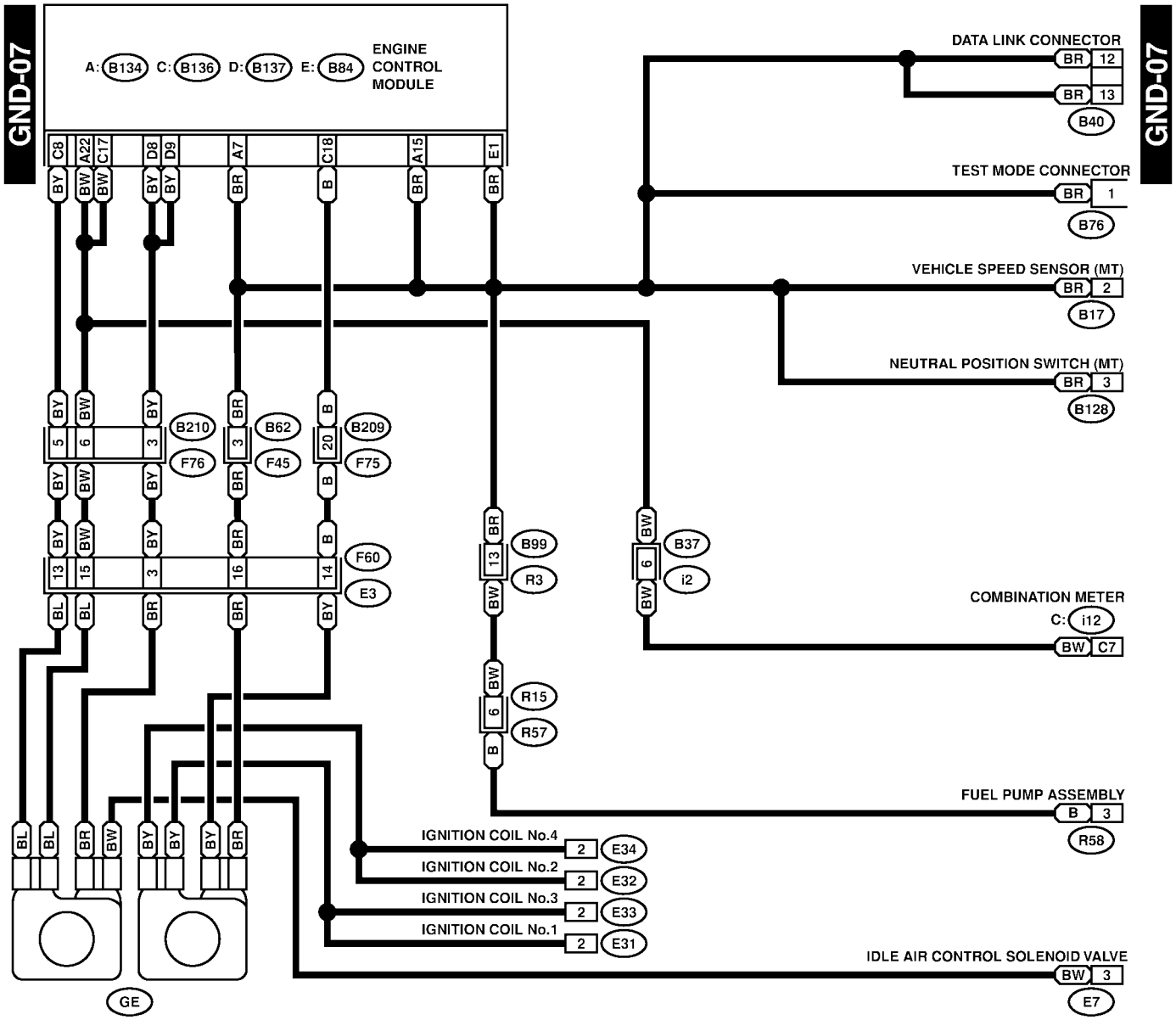

i2 (BLACK) : LHD
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22 23 24

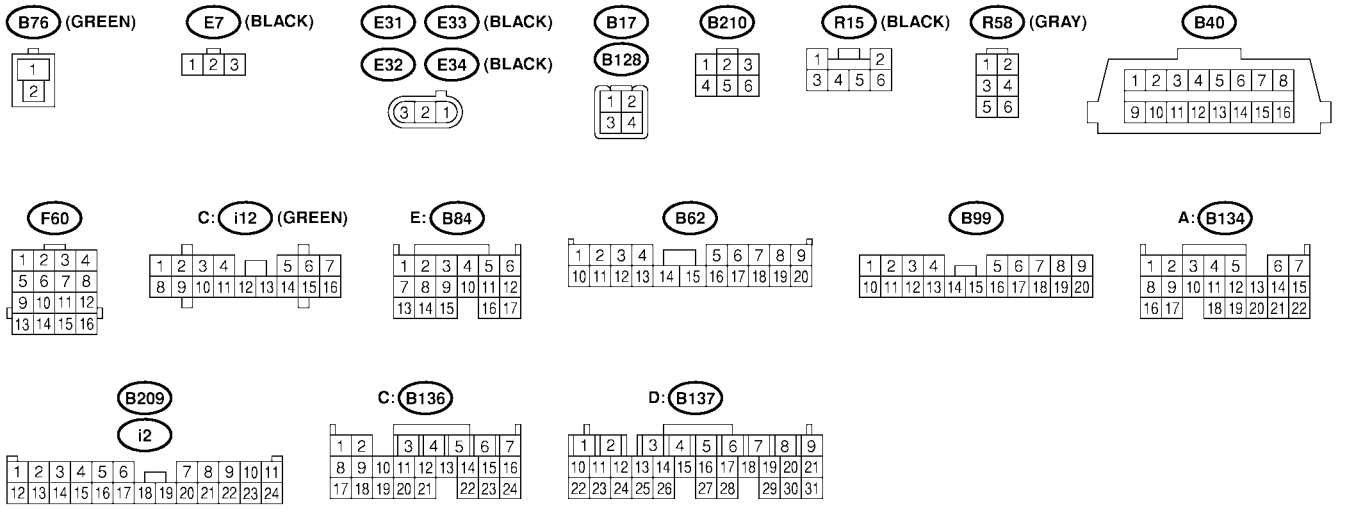

E22 (BLACK)
1 2 3 4 5 6 7
8 9 10 11 12 13
14 15 16 17 18 19
20 21 22 23 24 25 26


i2 : RHD
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

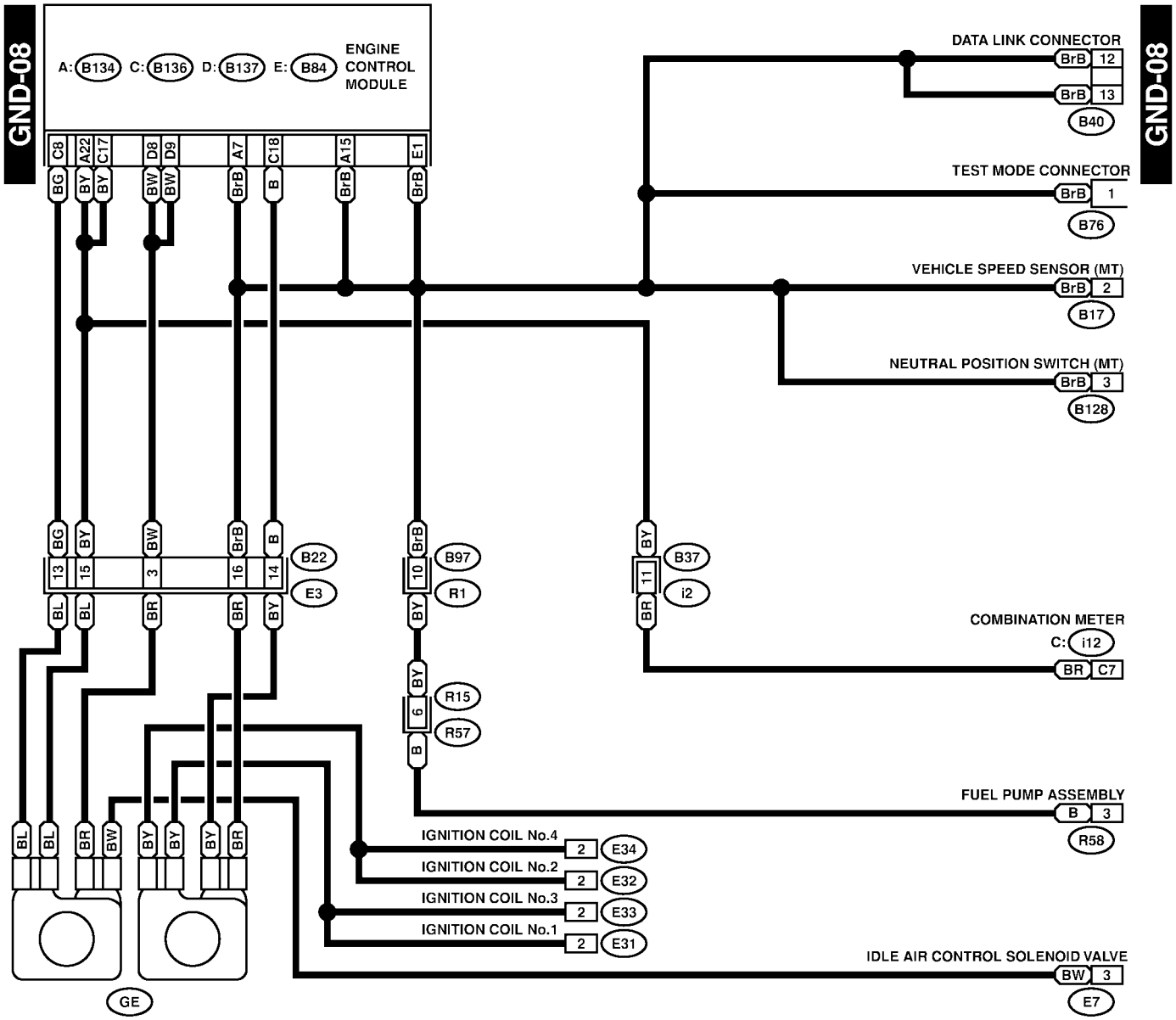
SG04-20F

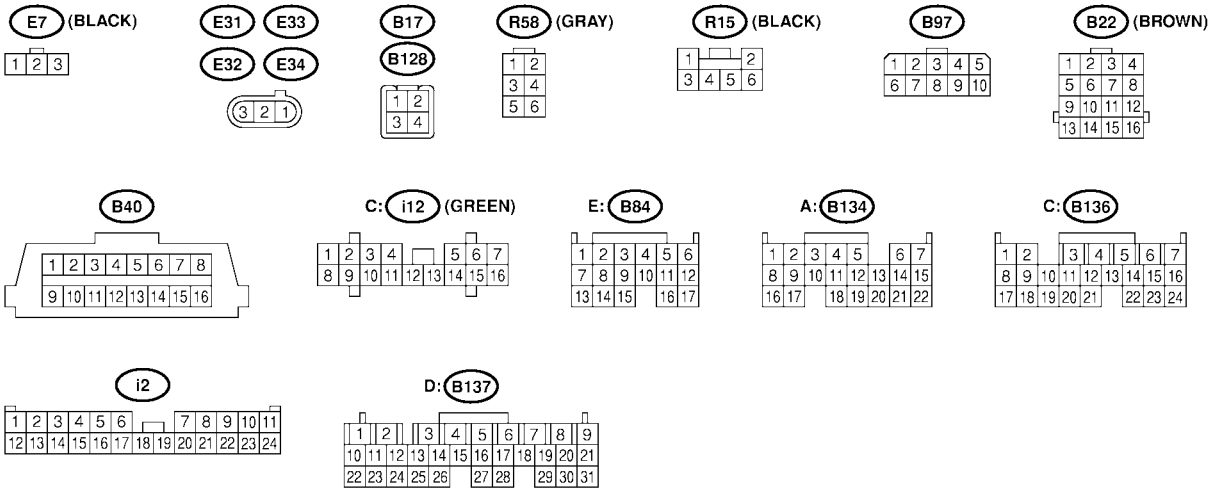
GROUND DISTRIBUTION





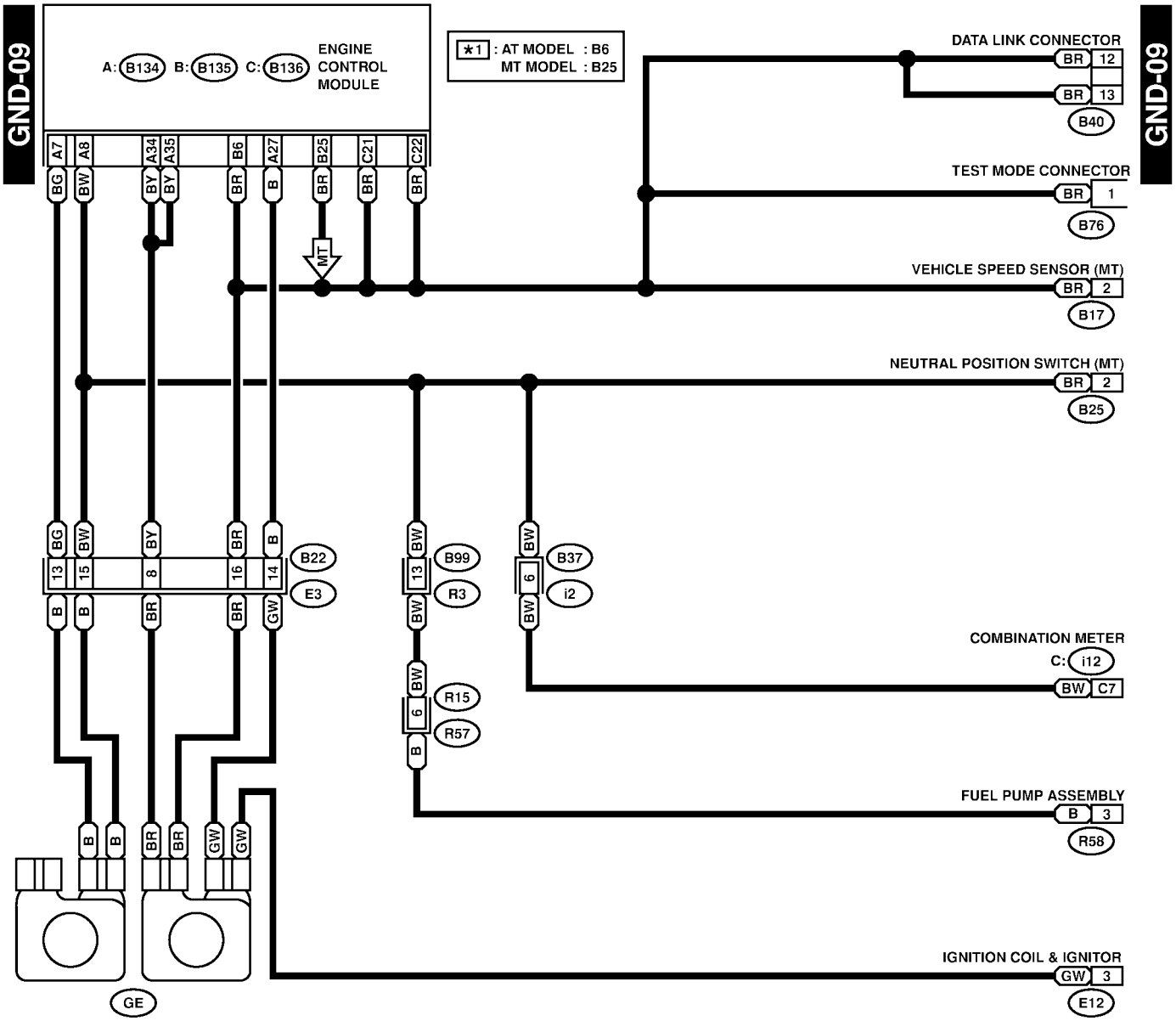
SG04-20G

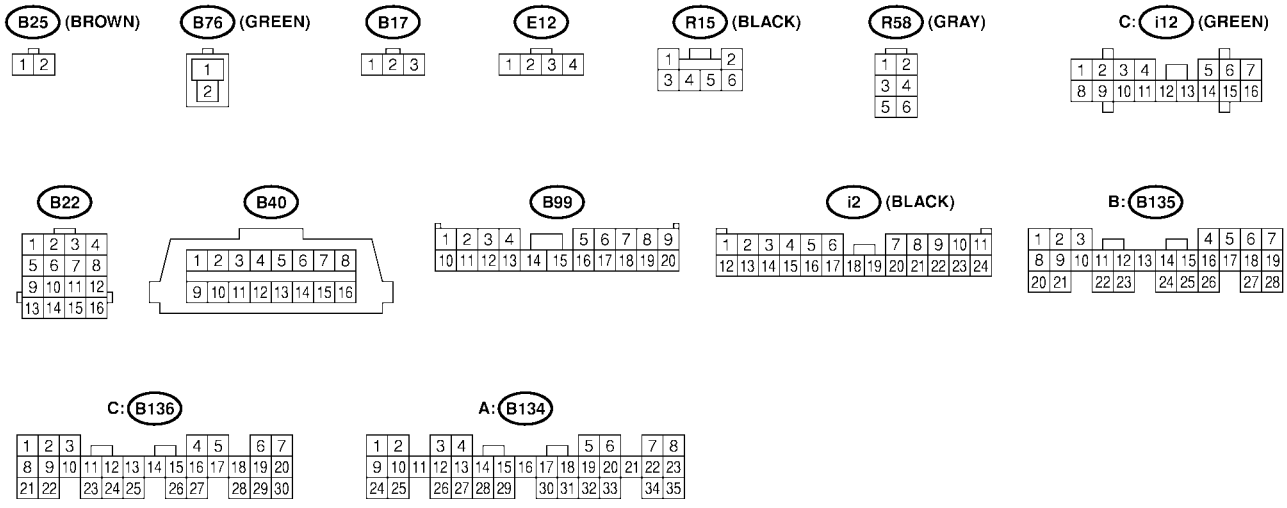

GND-08
A: B134 C: B136 D: B137 E: B84
ENGINE CONTROL MODULE
C8 A22 C17 D8 D9 A7 C18 A15 E1
BG BY BY BW BW BrB B BrB BrB
DATA LINK CONNECTOR
BrB 12
BrB 13
B40
TEST MODE CONNECTOR
BrB 1
B76
VEHICLE SPEED SENSOR (MT)
BrB 2
B17
NEUTRAL POSITION SWITCH (MT)
BrB 3
B128
BG BY BW BrB B
13 15 3 16 14
B22
E3
BrB
10
B97
R1
BY
11
B37
i2
BR
COMBINATION METER
C: i12
BR C7
BY
6
R15
R57
B
FUEL PUMP ASSEMBLY
B 3
R58
BL BL BR BW BY BY BY BR
IGNITION COIL No.4 2 E34
IGNITION COIL No.2 2 E32
IGNITION COIL No.3 2 E33
IGNITION COIL No.1 2 E31
IDLE AIR CONTROL SOLENOID VALVE
BW 3
E7
GE
GND-08


E7 (BLACK)
E31 E33 E32 E34
B17 B128
R58 (GRAY)
R15 (BLACK)
B97
B22 (BROWN)
B40
C: i12 (GREEN)
E: B84
A: B134
C: B136
i2
D: B137

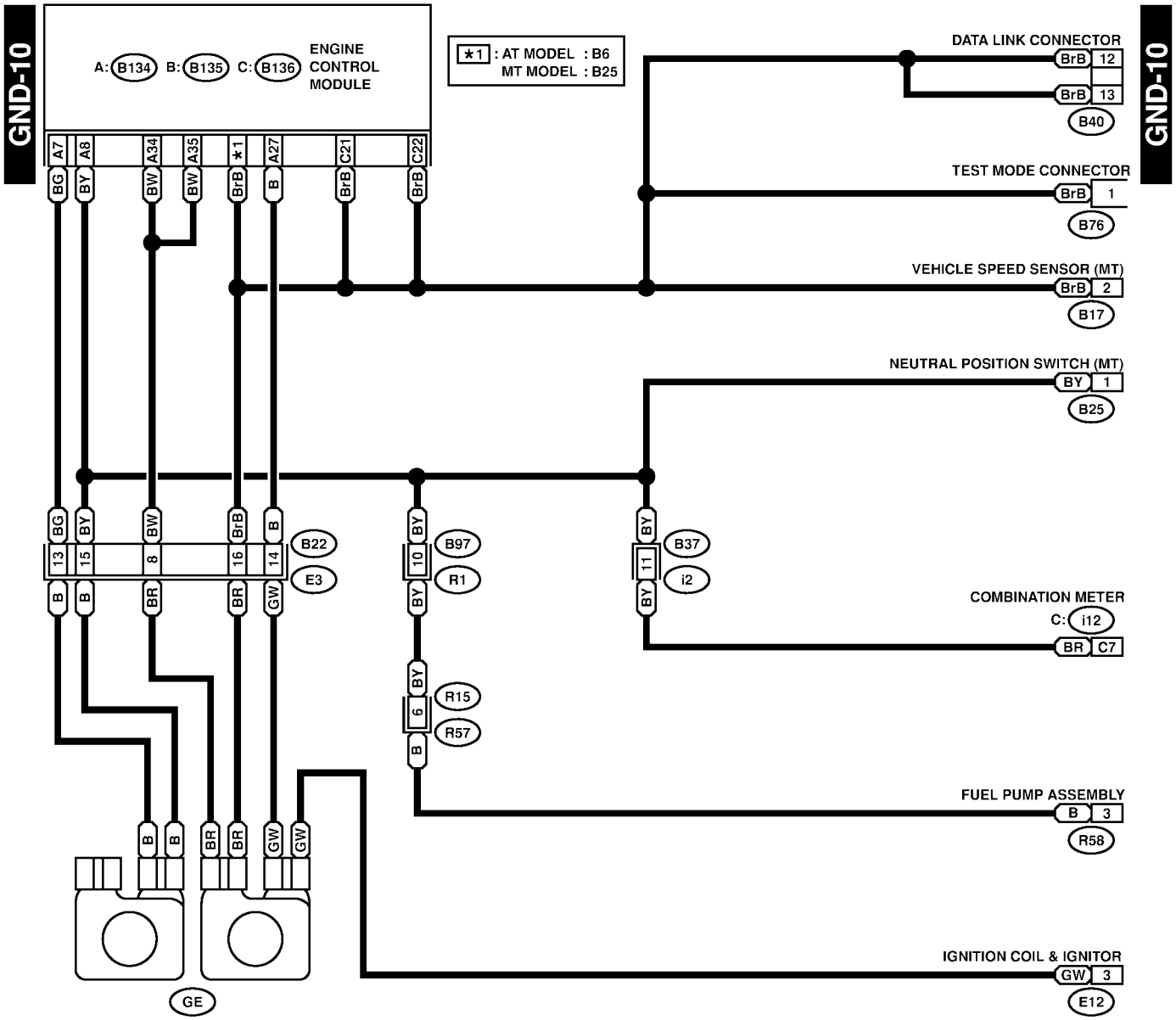
SG04-20H

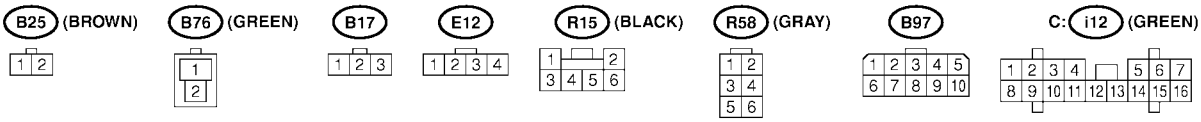
GROUND DISTRIBUTION

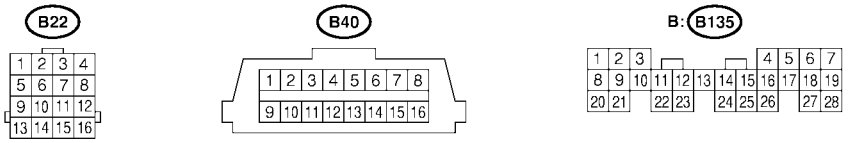


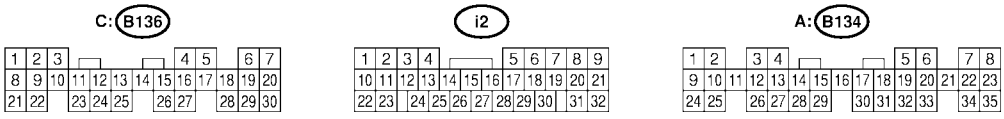


SG04-20I


GND-10
A: B134 B: B135 C: B136 ENGINE CONTROL MODULE
*1 : AT MODEL : B6
MT MODEL : B25
DATA LINK CONNECTOR
BrB 12
BrB 13
B40
TEST MODE CONNECTOR
BrB 1
B76
VEHICLE SPEED SENSOR (MT)
BrB 2
B17
NEUTRAL POSITION SWITCH (MT)
BY 1
B25
A7 A8 A34 A35 *1 A27 C21 C22
BG BY BW BW BrB B BrB BrB
B22 E3
B97 R1
B37 i2
COMBINATION METER
C: i12
BR C7
R15 R57
FUEL PUMP ASSEMBLY
B 3
R58
IGNITION COIL & IGNITOR
GW 3
E12
GE

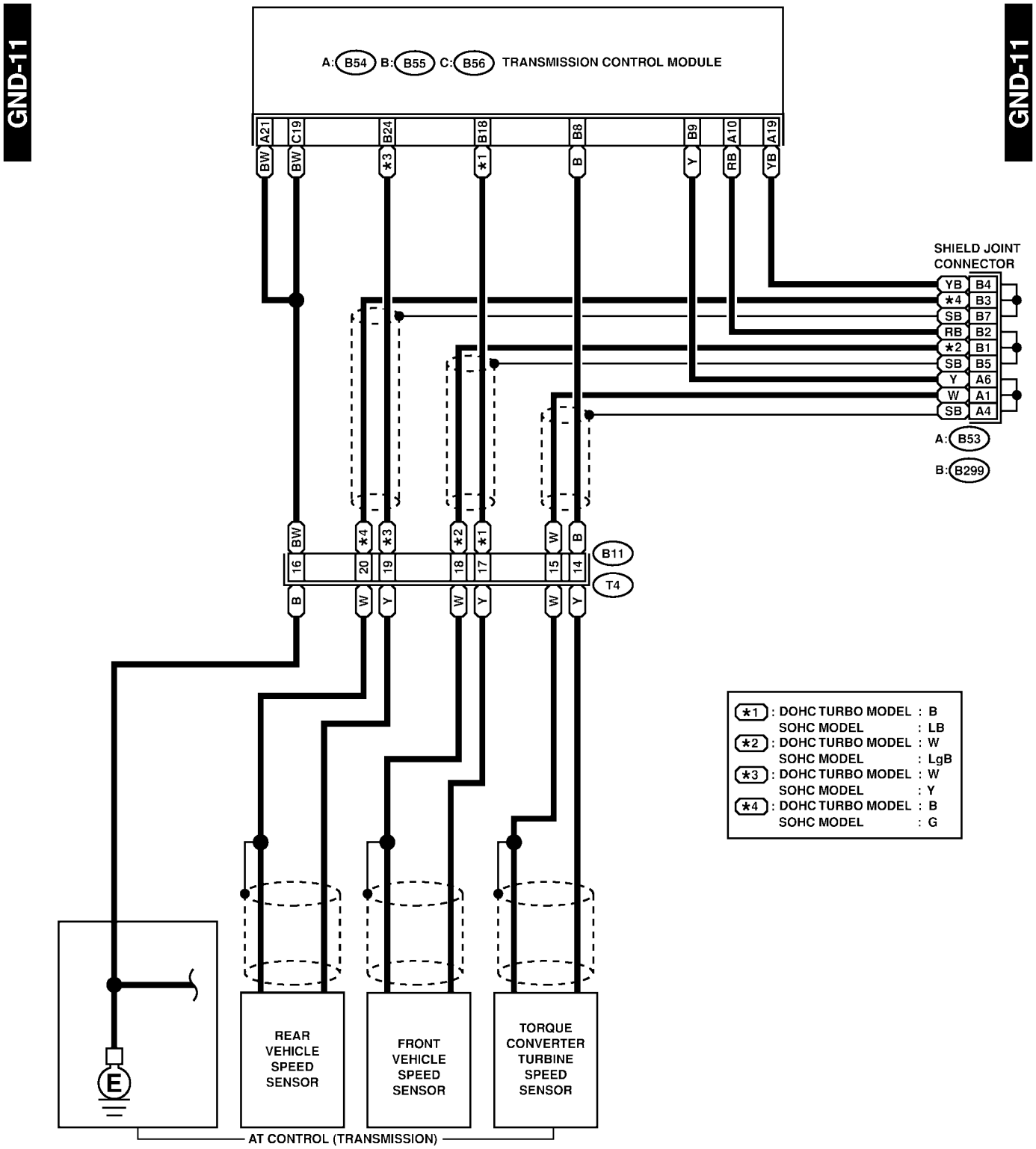

B25 (BROWN)
B76 (GREEN)
B17
E12
R15 (BLACK)
R58 (GRAY)
B97
C: i12 (GREEN)

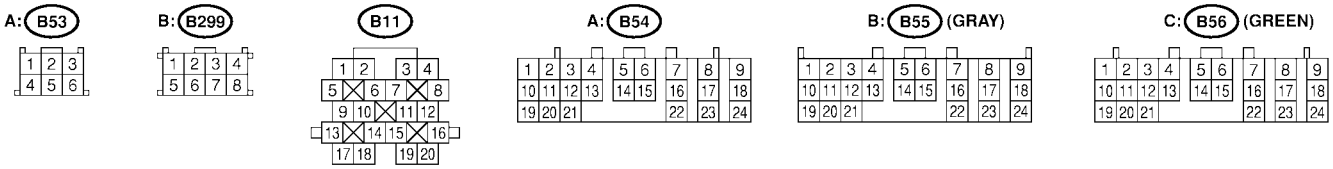

B22
B40
B: B135


C: B136
i2
A: B134

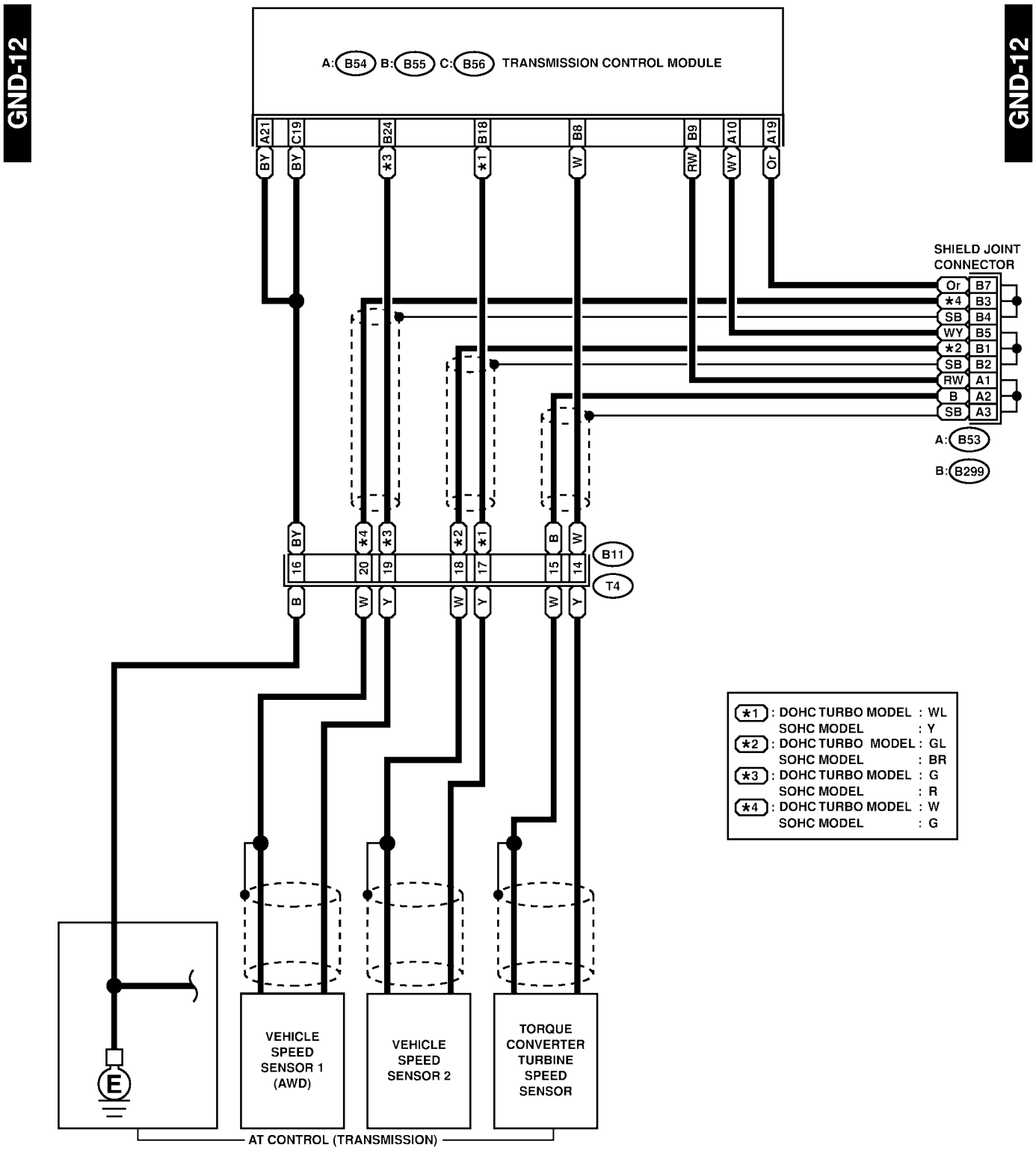
SG04-20J

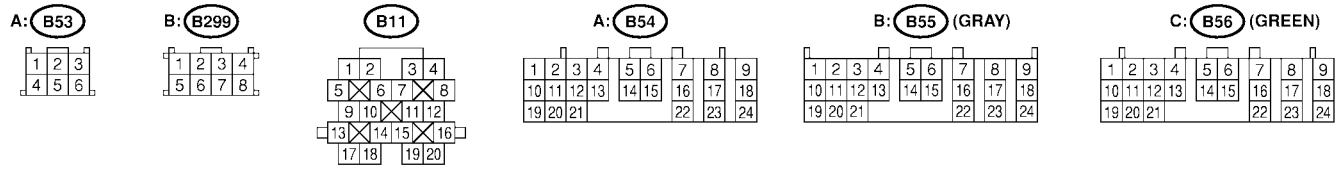
GROUND DISTRIBUTION





SG04-20K


GND-12
GND-12
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
A21 C19 B24 B18 B8 B9 A10 A19
BY BY ✱3 ✱1 W RW WY Or
SHIELD JOINT CONNECTOR
Or B7
✱4 B3
SB B4
WY B5
✱2 B1
SB B2
RW A1
B A2
SB A3
A: B53
B: B299
BY ✱4 ✱3 ✱2 ✱1 B W
16 20 19 18 17 15 14
B11
T4
B W Y W Y W Y
✱1 : DOHC TURBO MODEL : WL
SOHC MODEL : Y
✱2 : DOHC TURBO MODEL : GL
SOHC MODEL : BR
✱3 : DOHC TURBO MODEL : G
SOHC MODEL : R
✱4 : DOHC TURBO MODEL : W
SOHC MODEL : G
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)

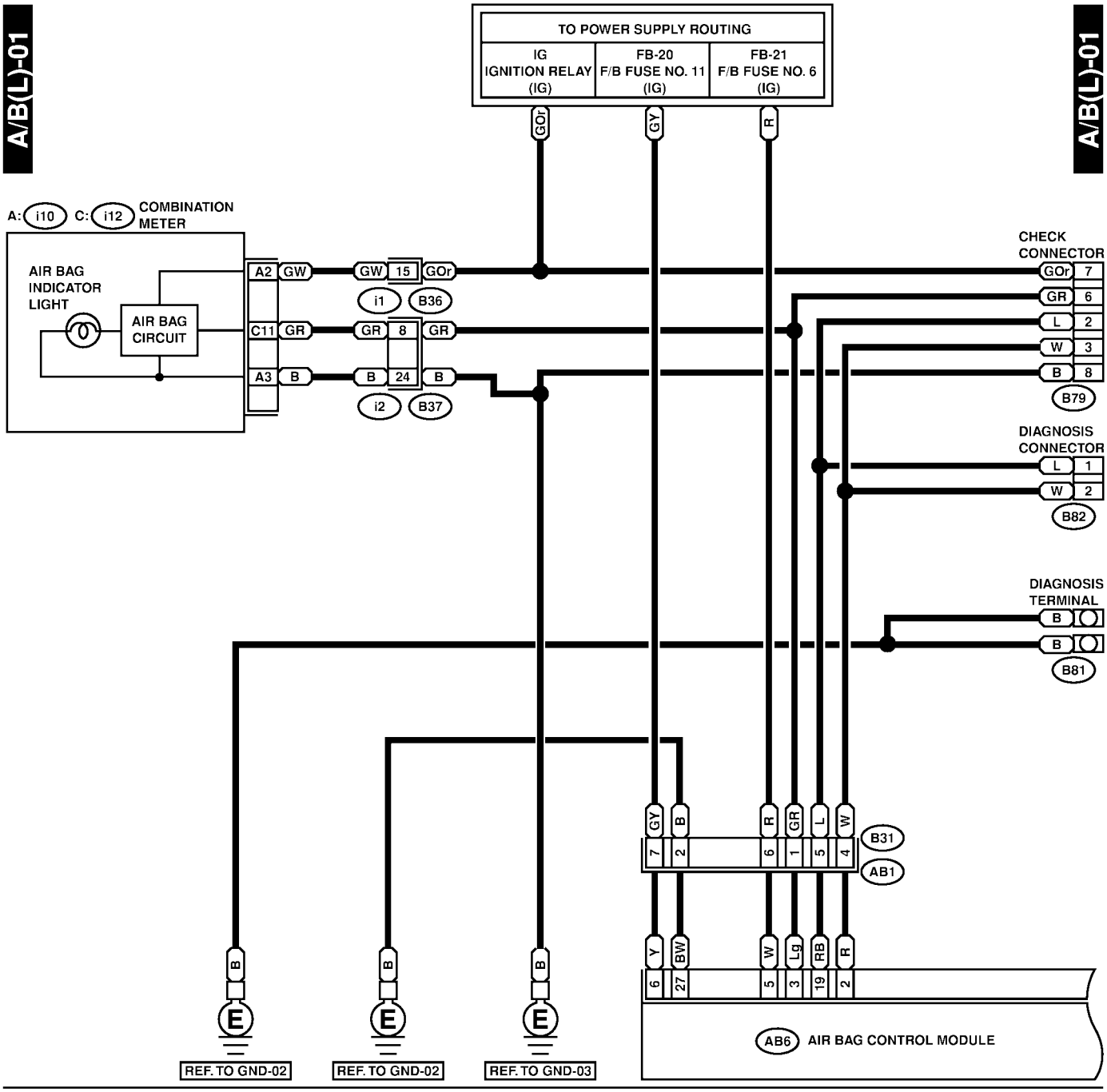

A: B53
B: B299
B11
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

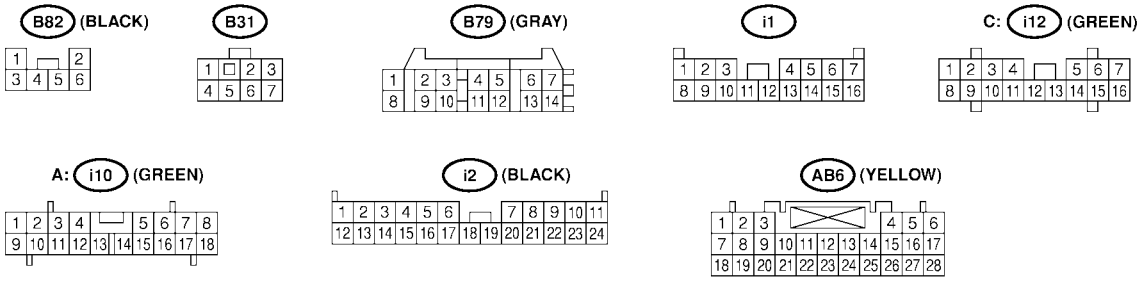
SG04-20L

5. Airbag System S903491

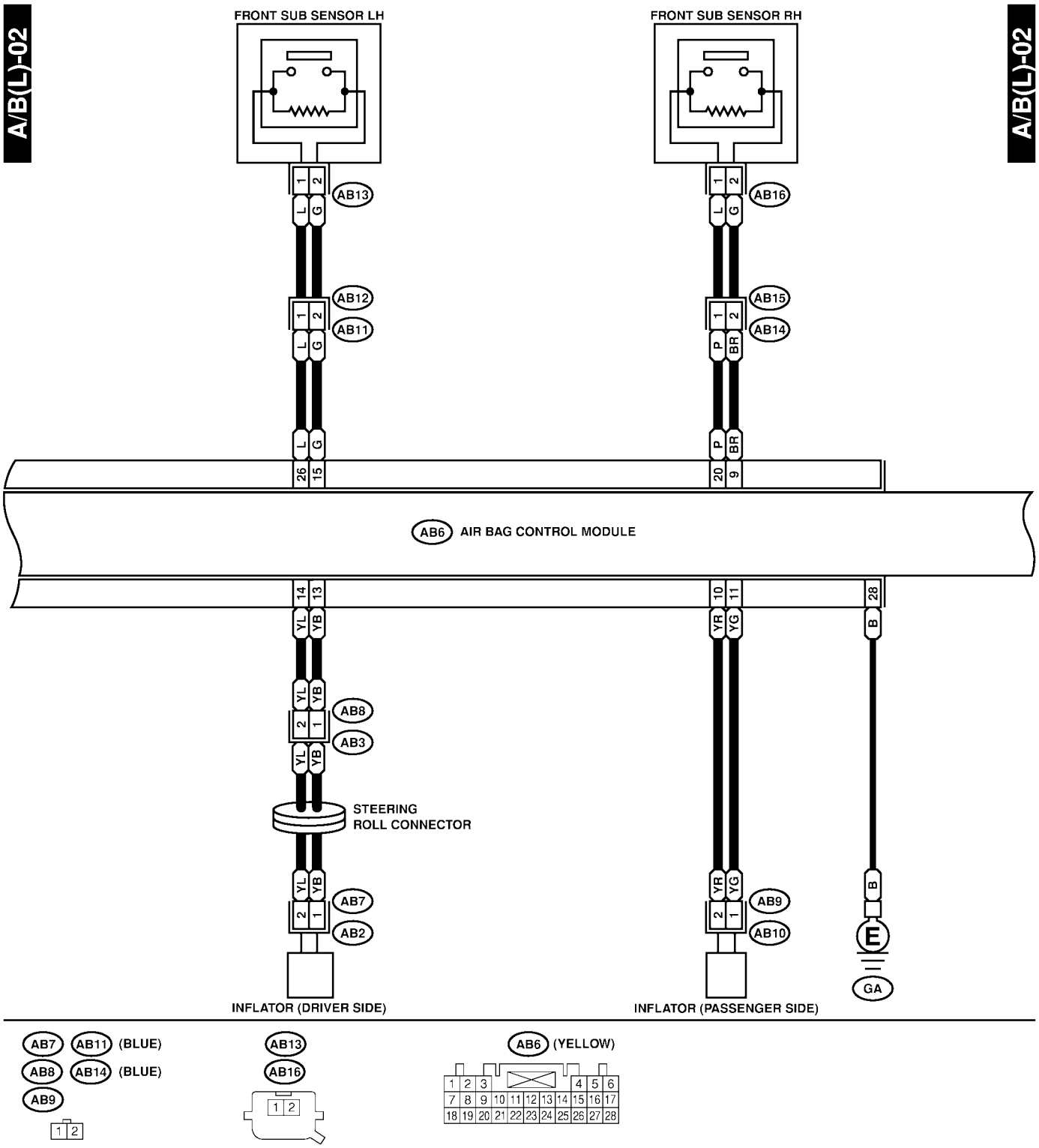
A: SCHEMATIC S903491A21

1. LHD MODEL S903491A2101

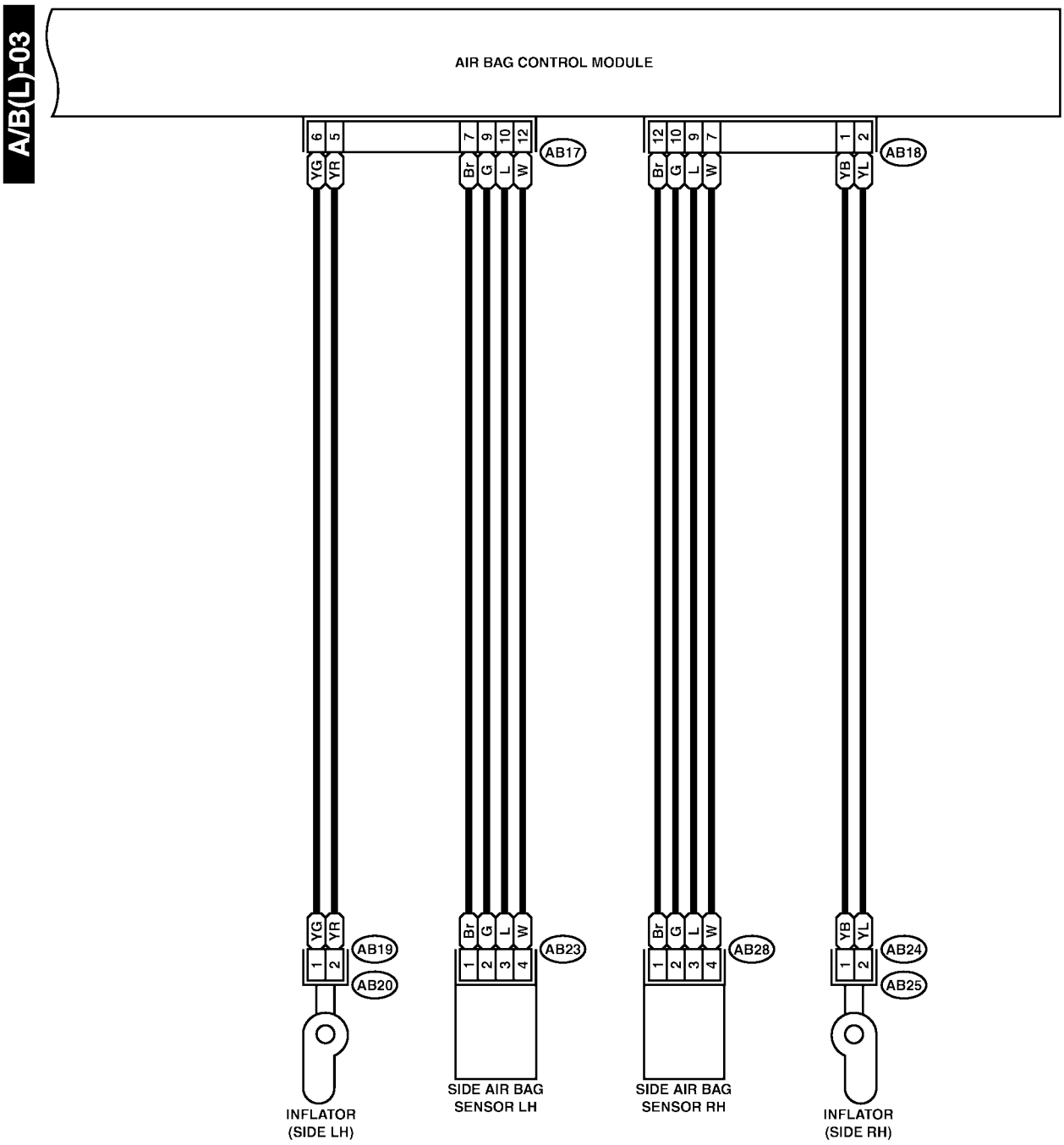


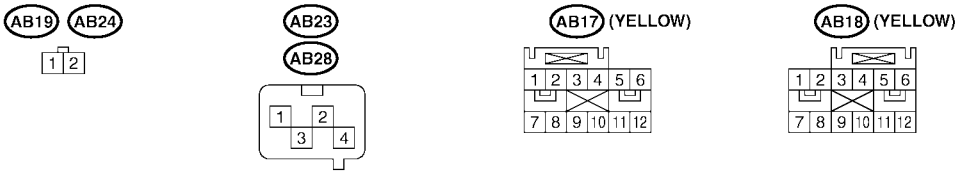


SL86-20A


A/B(L)-02
A/B(L)-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
AB13
AB16
AB12
AB11
AB15
AB14
AB6 AIR BAG CONTROL MODULE
AB8
AB3
STEERING
ROLL CONNECTOR
AB7
AB2
AB9
AB10
GA
INFLATOR (DRIVER SIDE)
INFLATOR (PASSENGER SIDE)
AB7 AB11 (BLUE)
AB8 AB14 (BLUE)
AB9
AB13
AB16
AB6 (YELLOW)

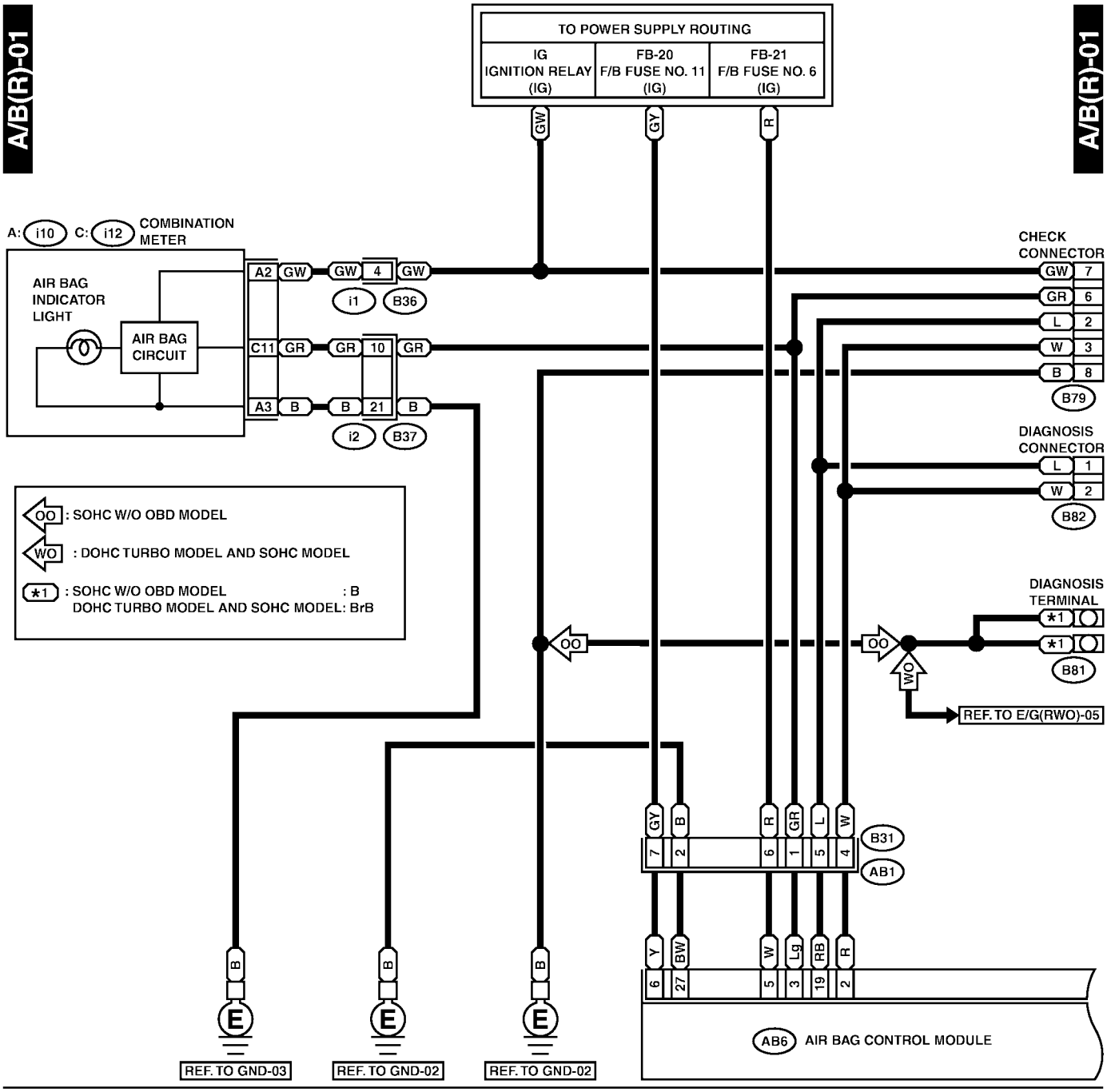
SL86-20B


A/B(L)-03
AIR BAG CONTROL MODULE
A/B(L)-03
6 5 7 9 10 12
AB17
YG YR Br G L W
12 10 9 7 1 2
AB18
Br G L W YB YL
YG YR
AB19
1 2
AB20
Br G L W
AB23
1 2 3 4
Br G L W
AB28
1 2 3 4
YB YL
AB24
1 2
AB25
INFLATOR
(SIDE LH)
SIDE AIR BAG
SENSOR LH
SIDE AIR BAG
SENSOR RH
INFLATOR
(SIDE RH)

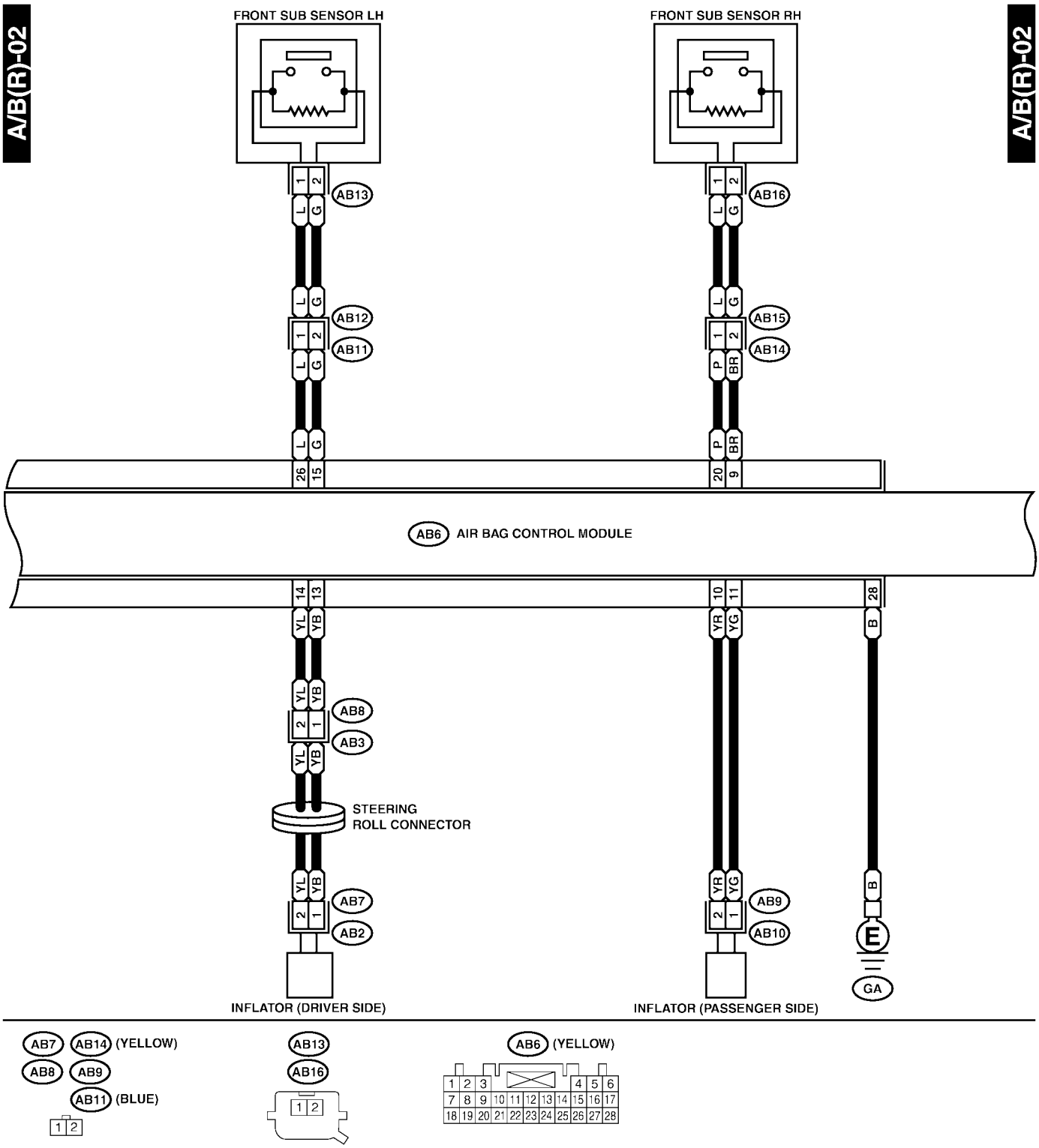

AB19 AB24
1 2
AB23
AB28
1 2
3 4
AB17 (YELLOW)
1 2 3 4 5 6
7 8 9 10 11 12
AB18 (YELLOW)
1 2 3 4 5 6
7 8 9 10 11 12

SL86-20C

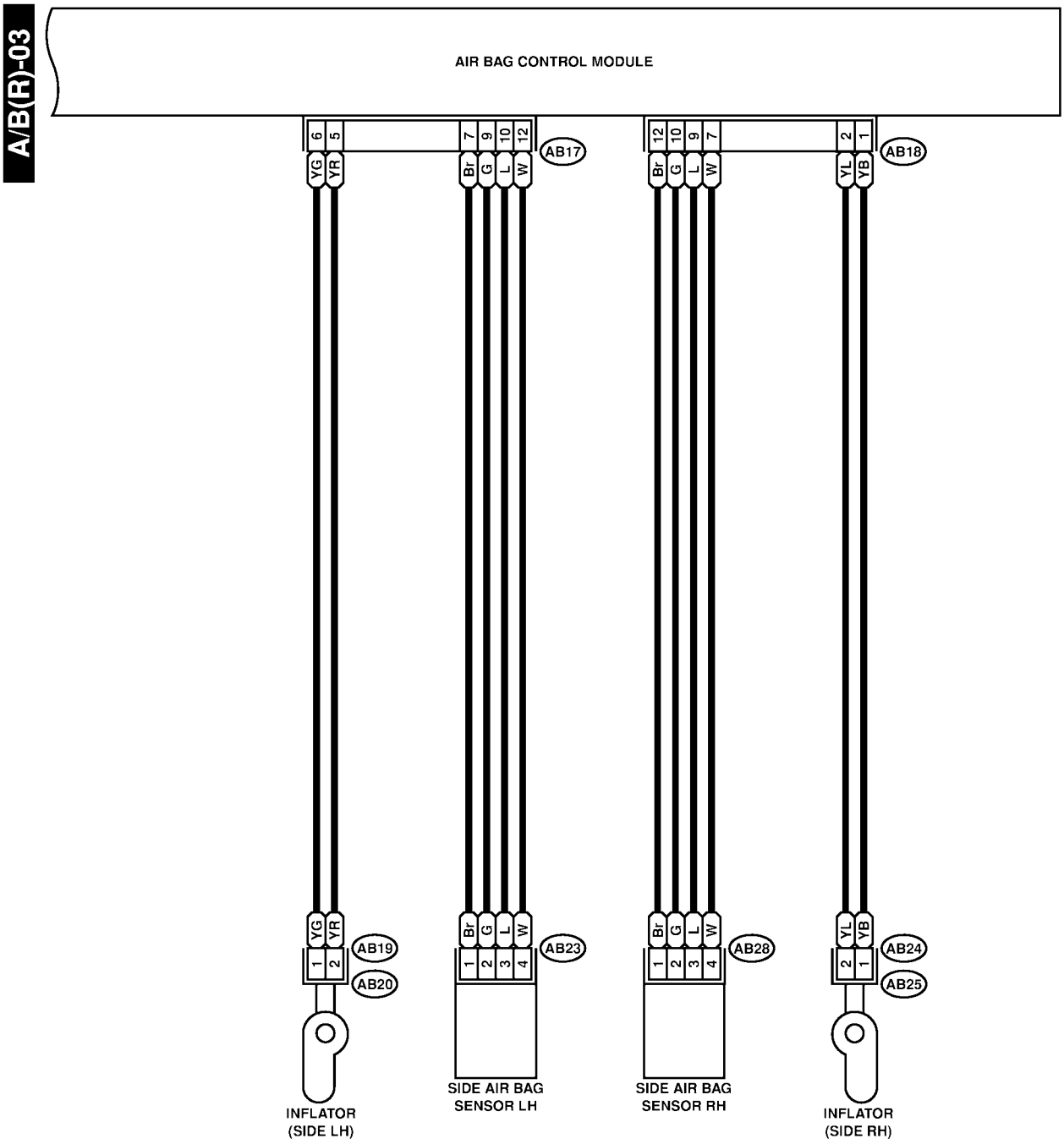
2. RHD MODEL S903491A2102

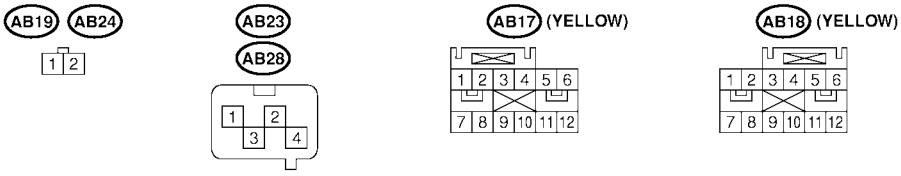


SR86-20A


A/B(R)-02
A/B(R)-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
AB13
AB16
AB12
AB15
AB11
AB14
AB6 AIR BAG CONTROL MODULE
STEERING
ROLL CONNECTOR
AB8
AB3
AB7
AB2
AB9
AB10
INFLATOR (DRIVER SIDE)
INFLATOR (PASSENGER SIDE)
GA
AB7 AB14 (YELLOW)
AB8 AB9
AB11 (BLUE)
AB13
AB16
AB6 (YELLOW)

SR86-20B


A/B(R)-03
AIR BAG CONTROL MODULE
A/B(R)-03
6 5 7 9 10 12
AB17
YG YR Br G L W
12 10 9 7 2 1
AB18
Br G L W YL YB
YG YR
AB19
1 2
AB20
Br G L W
AB23
1 2 3 4
Br G L W
AB28
1 2 3 4
YL YB
AB24
2 1
AB25
INFLATOR (SIDE LH)
SIDE AIR BAG SENSOR LH
SIDE AIR BAG SENSOR RH
INFLATOR (SIDE RH)

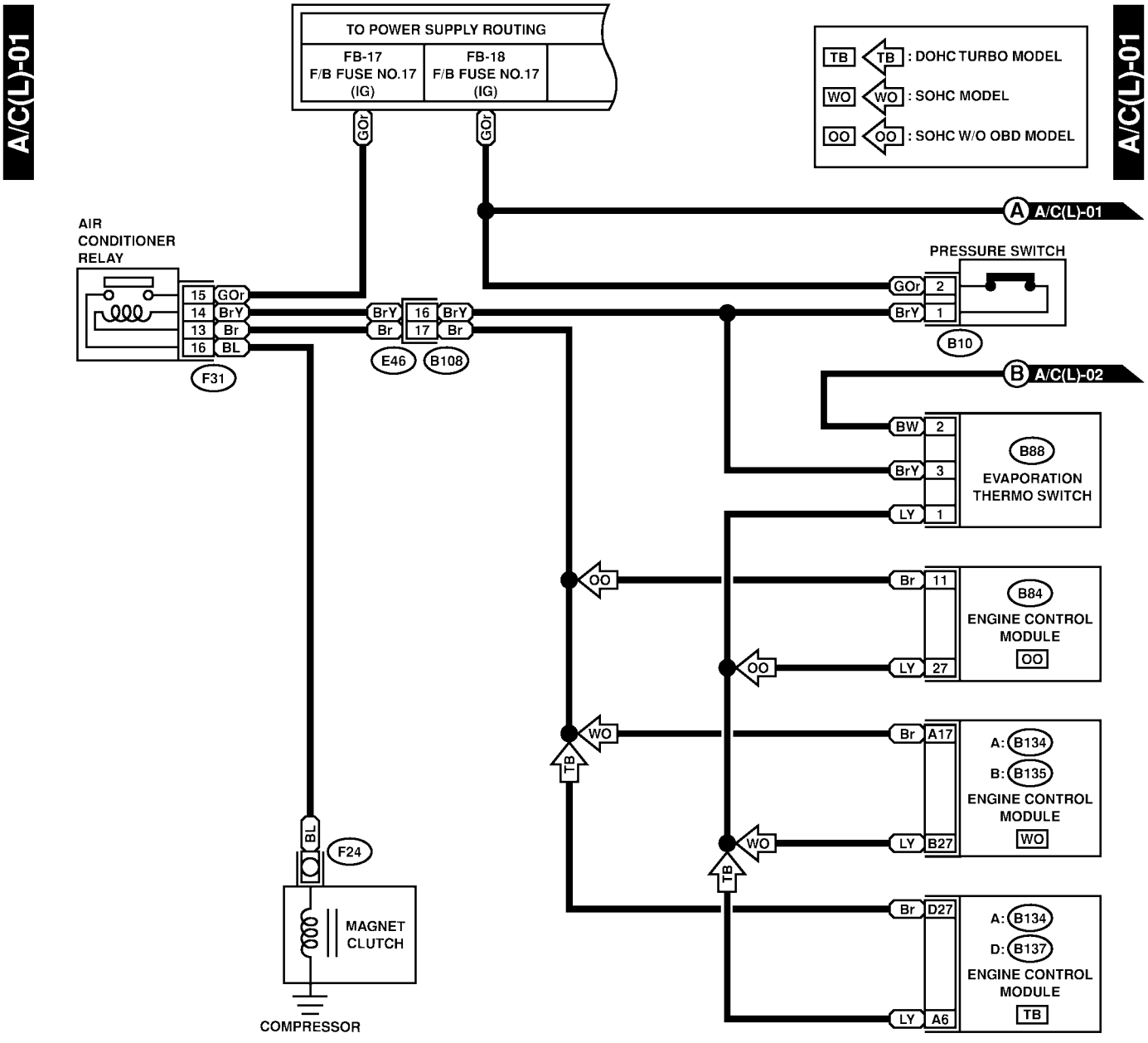

AB19 AB24
1 2
AB23
AB28
1 2 3 4
AB17 (YELLOW)
1 2 3 4 5 6
7 8 9 10 11 12
AB18 (YELLOW)
1 2 3 4 5 6
7 8 9 10 11 12

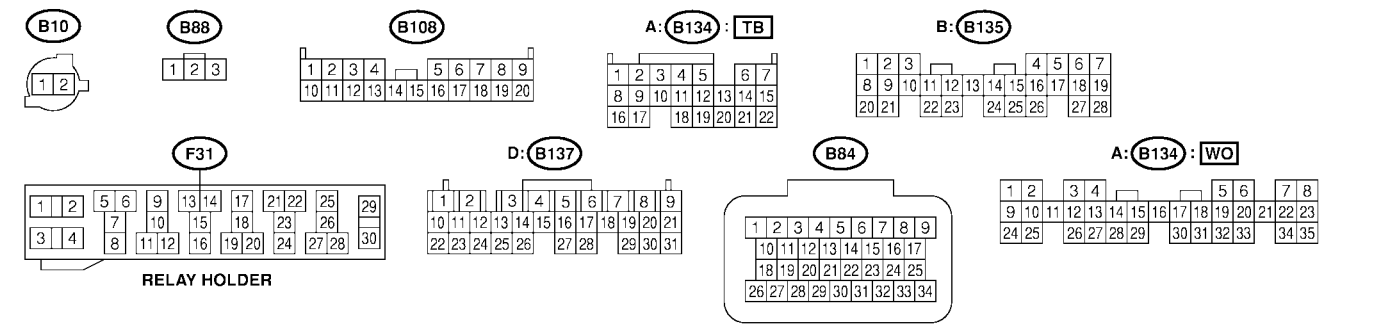
SR86-20C

6. Air Conditioning System S903471

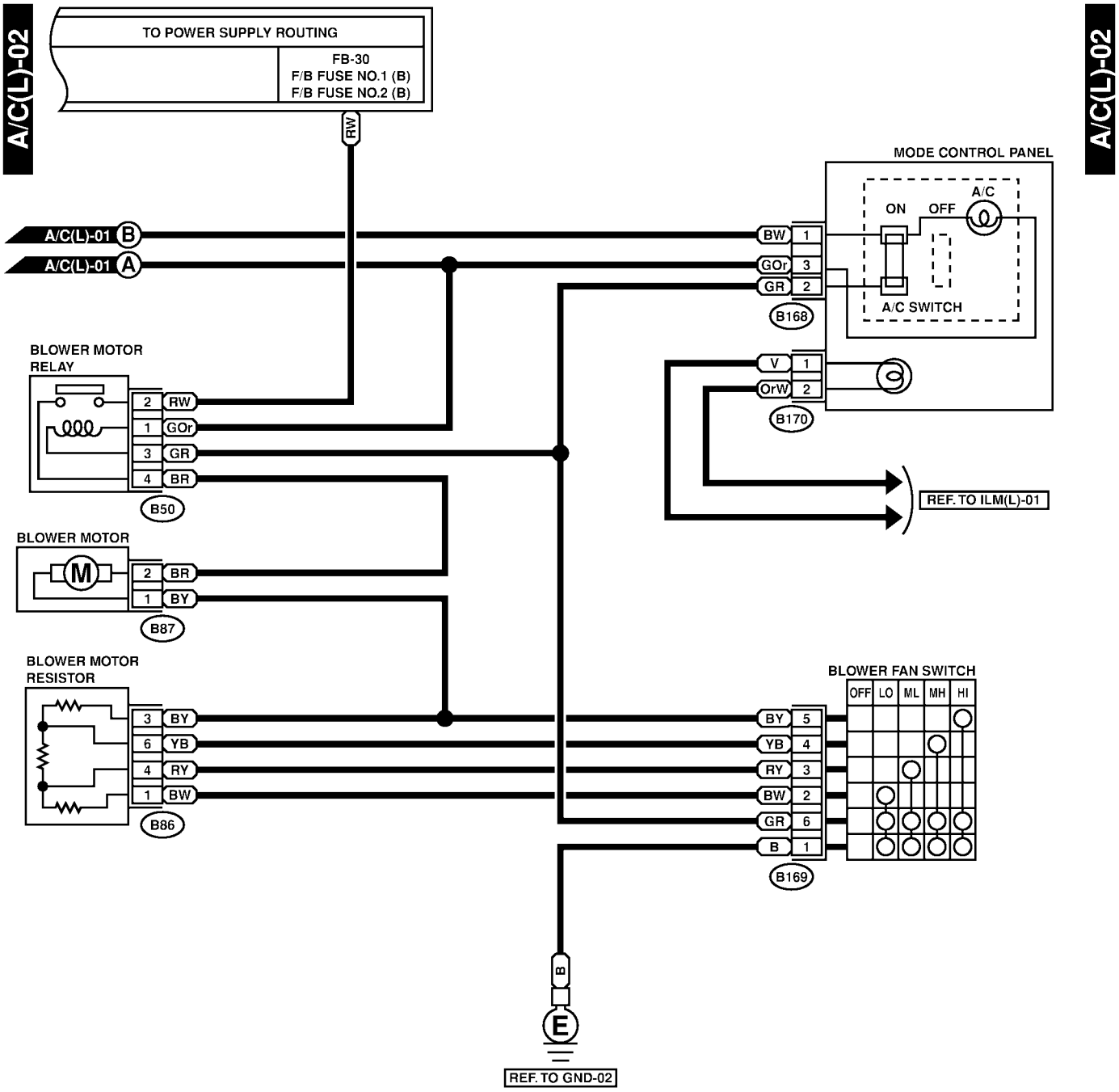
A: SCHEMATIC S903471A21

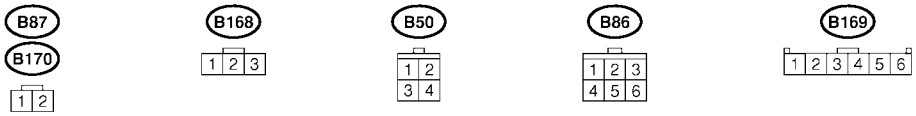
1. LHD MODEL S903471A2111





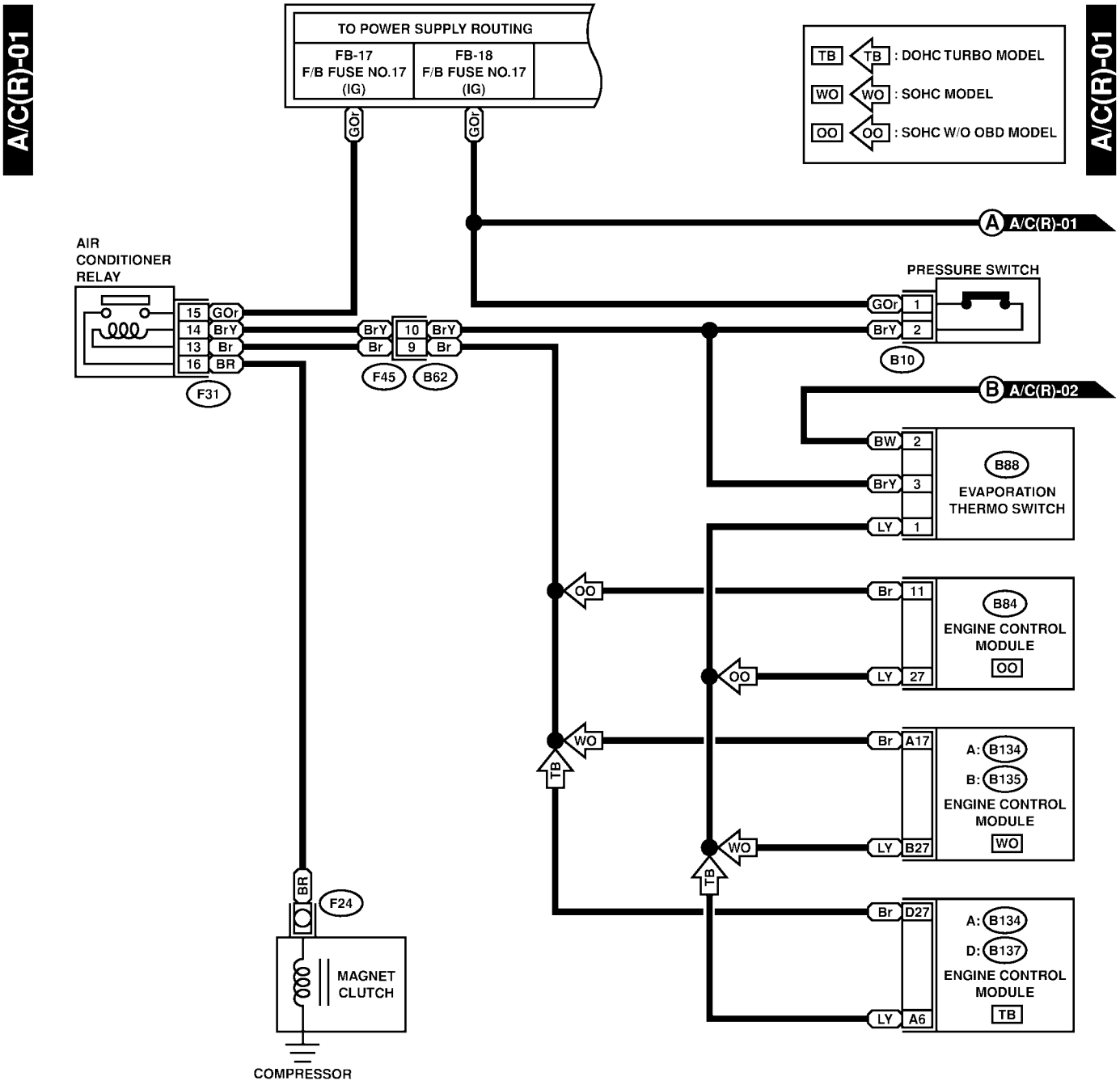
SL45-20A

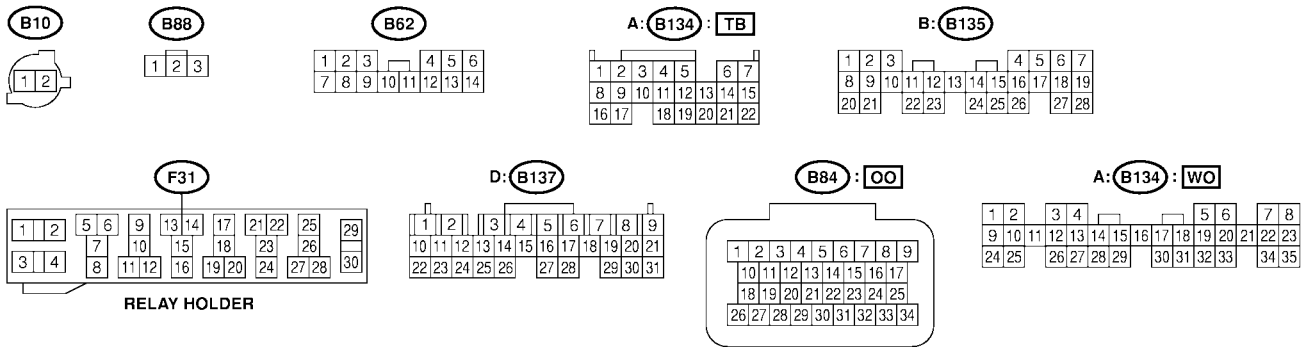

A/C(L)-02
TO POWER SUPPLY ROUTING
FB-30
F/B FUSE NO.1 (B)
F/B FUSE NO.2 (B)
RW
A/C(L)-01 B
A/C(L)-01 A
MODE CONTROL PANEL
A/C
ON
OFF
A/C SWITCH
BW 1
GOr 3
GR 2
B168
V 1
OrW 2
B170
REF. TO ILM(L)-01
BLOWER MOTOR RELAY
2 RW
1 GOr
3 GR
4 BR
B50
BLOWER MOTOR
M
2 BR
1 BY
B87
BLOWER MOTOR RESISTOR
3 BY
6 YB
4 RY
1 BW
B86
BLOWER FAN SWITCH
OFF LO ML MH HI
BY 5
YB 4
RY 3
BW 2
GR 6
B 1
B169
B
E
REF. TO GND-02


B87
B170
1 2
B168
1 2 3
B50
1 2
3 4
B86
1 2 3
4 5 6
B169
1 2 3 4 5 6

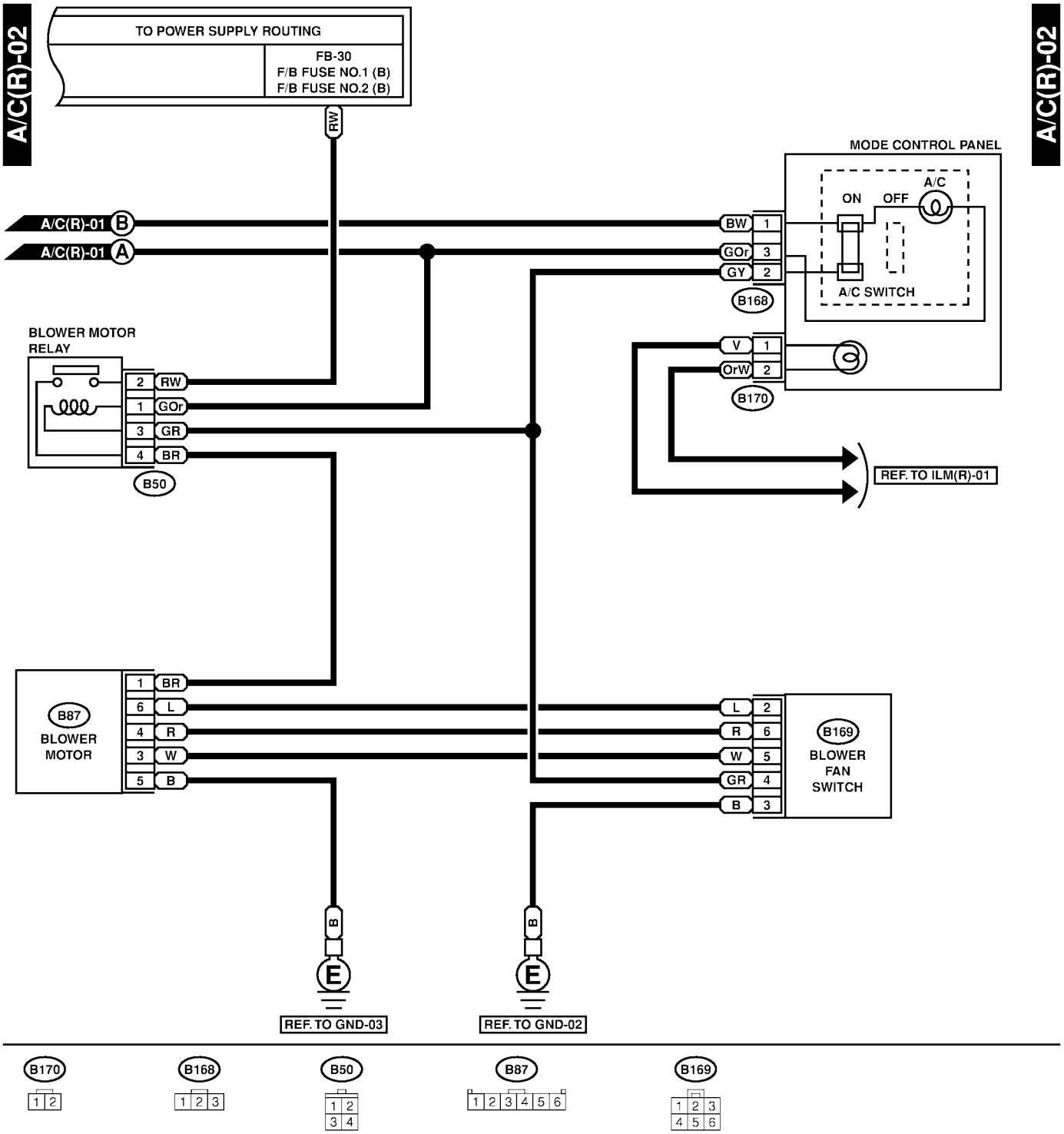
SL45-20B

2. RHD MODEL S903471A2112





SR45-20A


A/C(R)-02
A/C(R)-02
TO POWER SUPPLY ROUTING
FB-30
F/B FUSE NO.1 (B)
F/B FUSE NO.2 (B)
RW
MODE CONTROL PANEL
A/C
ON
OFF
A/C SWITCH
A/C(R)-01 B
A/C(R)-01 A
BW 1
GOr 3
GY 2
B168
V 1
OrW 2
B170
REF. TO ILM(R)-01
BLOWER MOTOR
RELAY
2 RW
1 GOr
3 GR
4 BR
B50
B87
BLOWER
MOTOR
1 BR
6 L
4 R
3 W
5 B
L 2
R 6
W 5
GR 4
B 3
B169
BLOWER
FAN
SWITCH
B
E
REF. TO GND-03
B
E
REF. TO GND-02

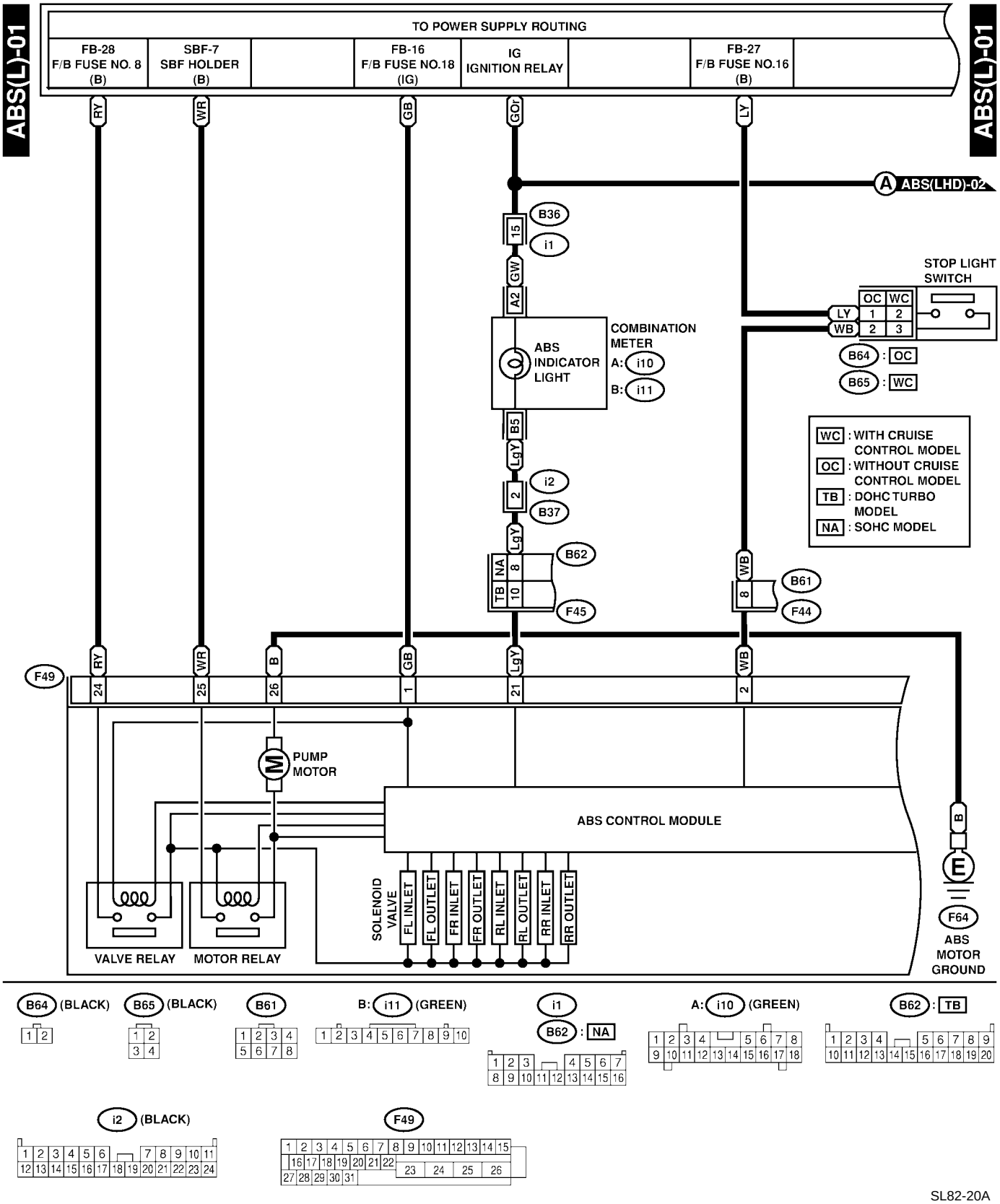
B170
1 2
B168
1 2 3
B50
1 2
3 4
B87
1 2 3 4 5 6
B169
1 2 3
4 5 6

SR45-20B

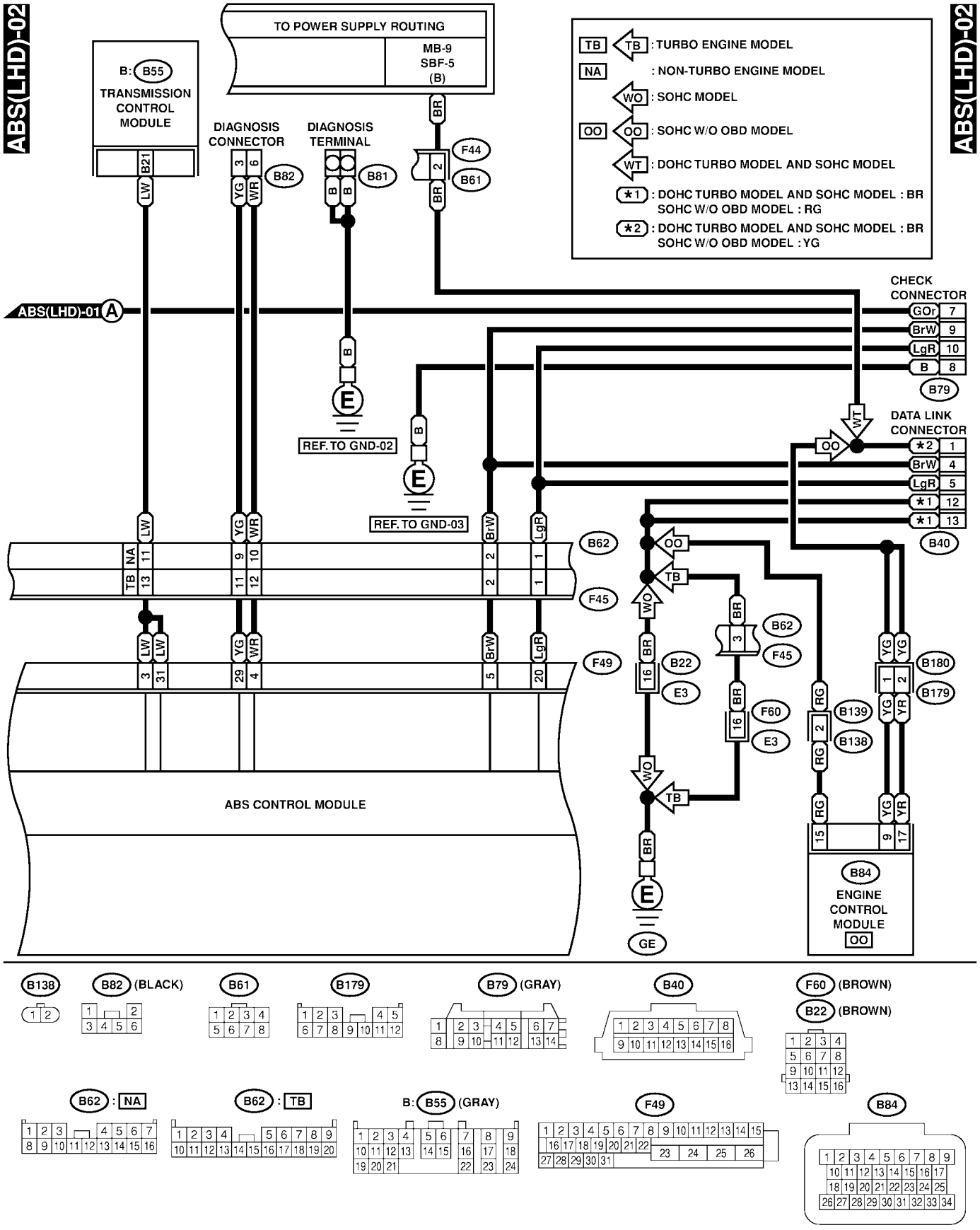
7. Anti-lock Brake System S903484

A: SCHEMATIC S903484A21

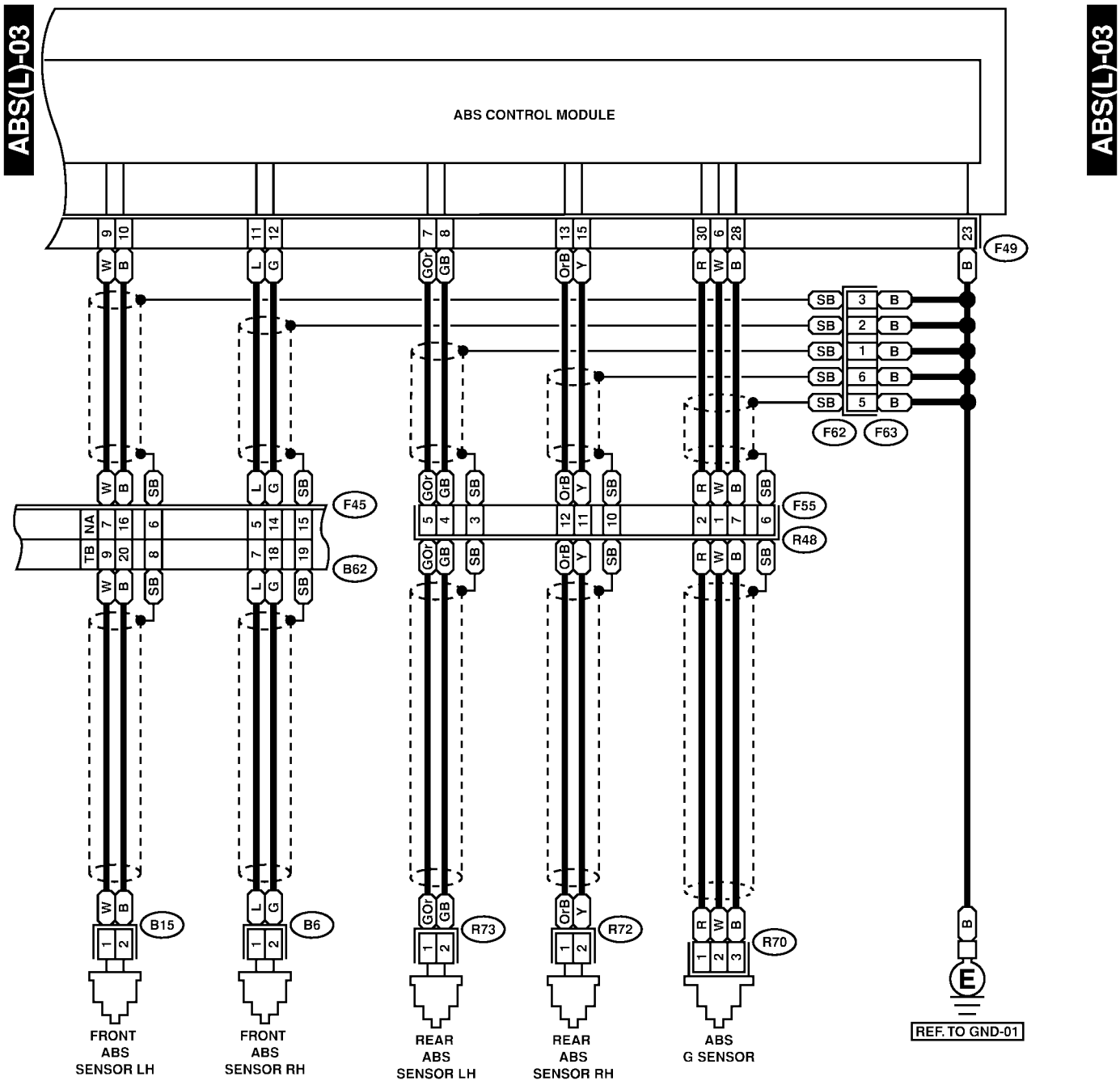
1. LHD MODEL S903484A2101

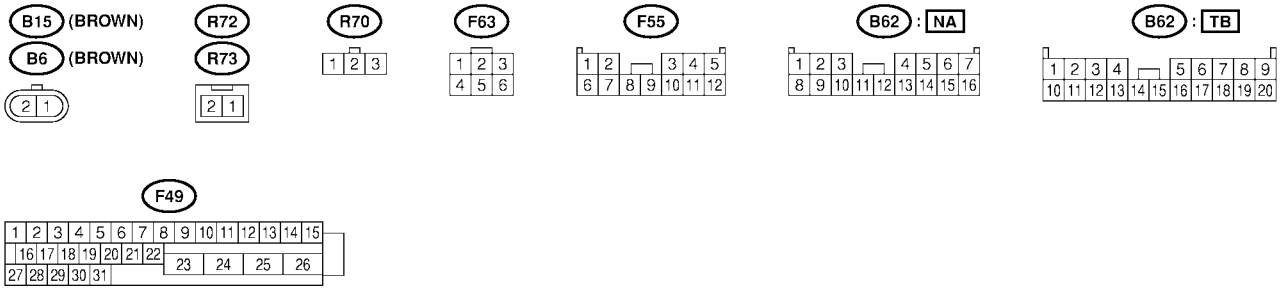


SL82-20A

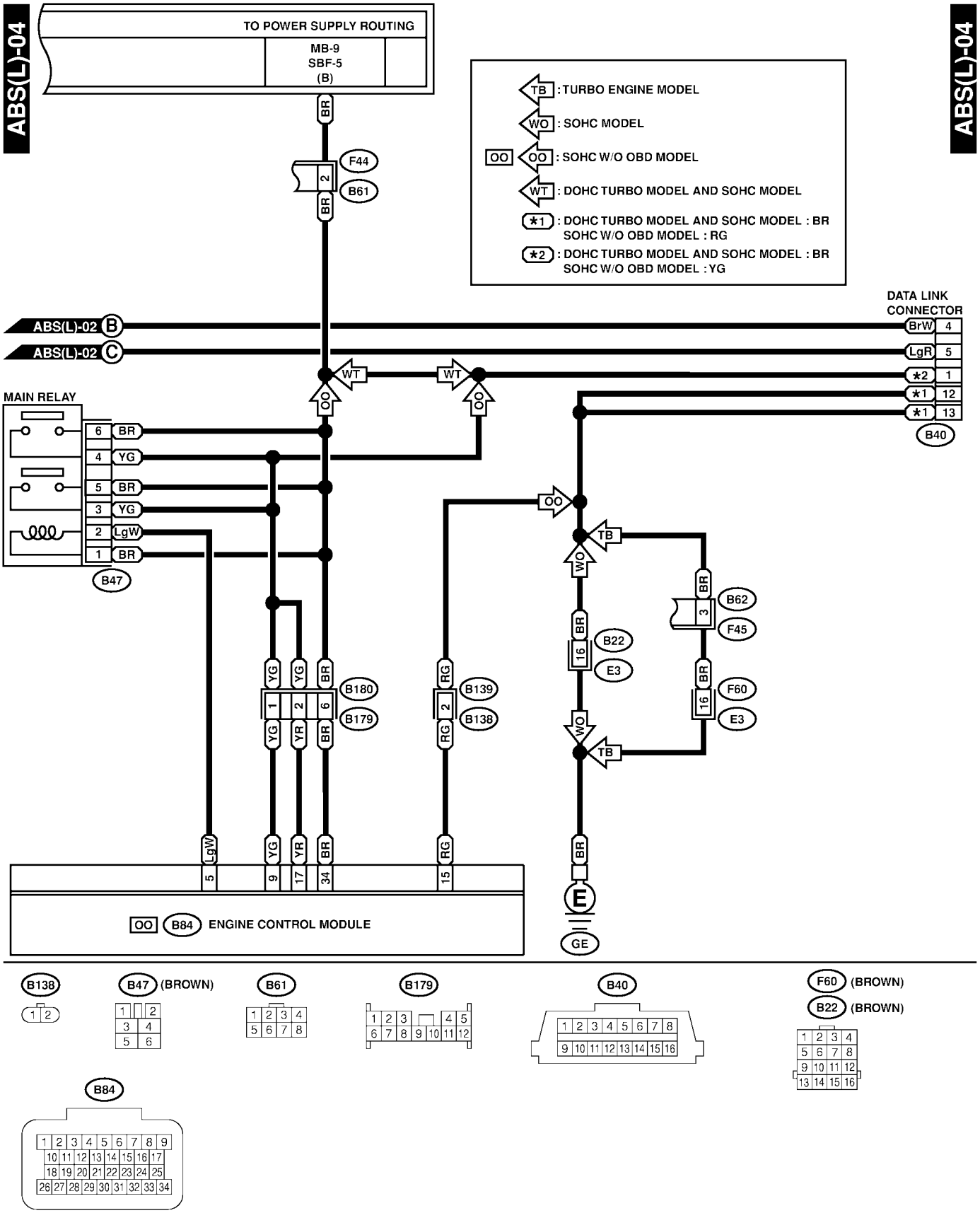

ABS(LHD)-02
ABS(LHD)-02
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
B: B55
TRANSMISSION CONTROL MODULE
DIAGNOSIS CONNECTOR
DIAGNOSIS TERMINAL
B82
B81
F44
B61
TB : TURBO ENGINE MODEL
NA : NON-TURBO ENGINE MODEL
WO : SOHC MODEL
OO : SOHC W/O OBD MODEL
WT : DOHC TURBO MODEL AND SOHC MODEL
*1 : DOHC TURBO MODEL AND SOHC MODEL : BR
SOHC W/O OBD MODEL : RG
*2 : DOHC TURBO MODEL AND SOHC MODEL : BR
SOHC W/O OBD MODEL : YG
ABS(LHD)-01 A
CHECK CONNECTOR
B79
DATA LINK CONNECTOR
REF. TO GND-02
REF. TO GND-03
B62
F45
F49
B22
E3
F60
B139
B138
B180
B179
B40
B84
ENGINE CONTROL MODULE
GE
ABS CONTROL MODULE
B138
B82 (BLACK)
B61
B179
B79 (GRAY)
B40
F60 (BROWN)
B22 (BROWN)
B62 : NA
B62 : TB
B: B55 (GRAY)
F49
B84

SL82-20B


ABS(L)-03
ABS CONTROL MODULE
ABS(L)-03
F49
F62
F63
F45
B62
F55
R48
B15
B6
R73
R72
R70
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR
REF. TO GND-01


B15 (BROWN)
B6 (BROWN)
R72
R73
R70
F63
F55
B62 : NA
B62 : TB
F49

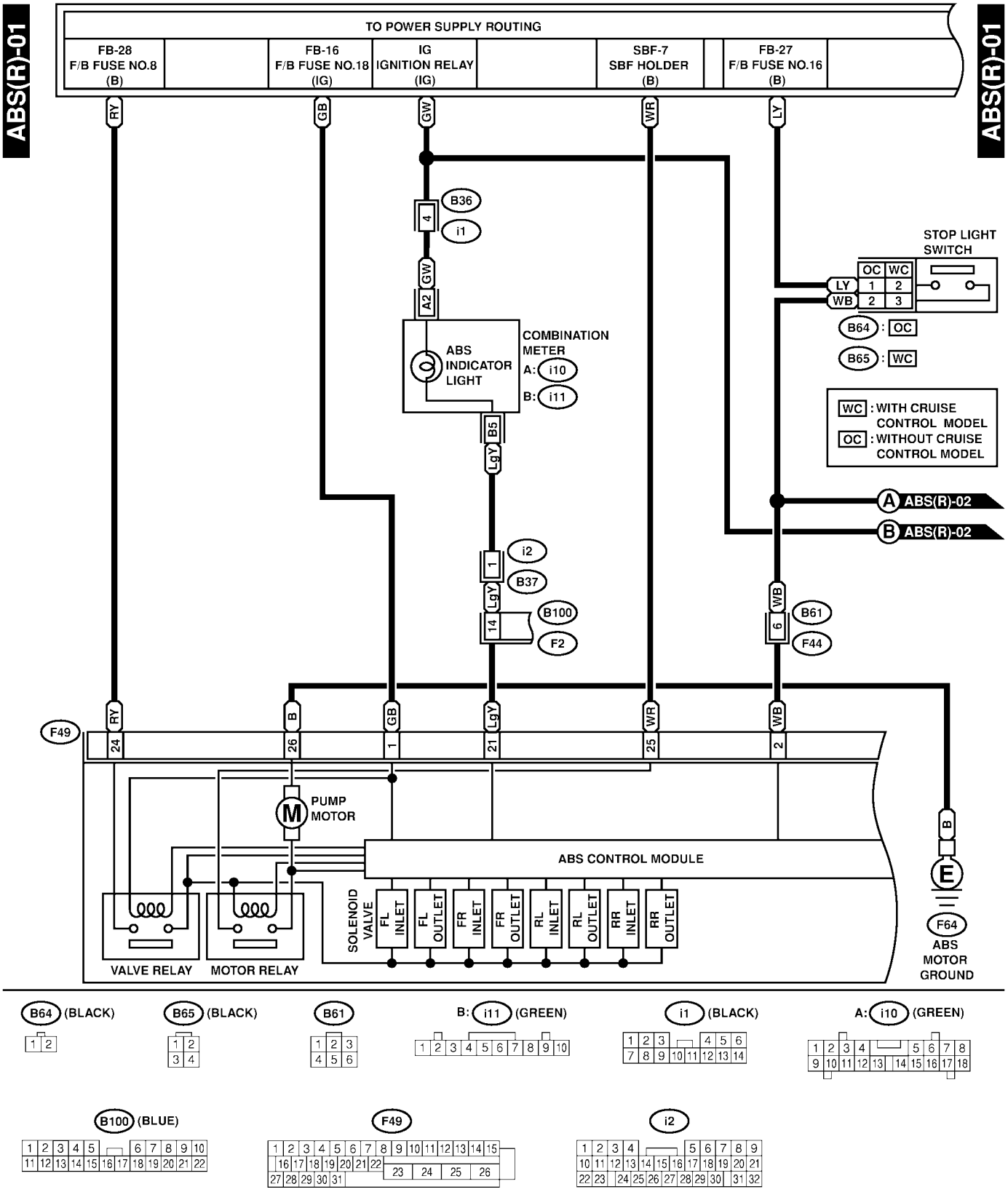
SL82-20C


ABS(L)-04
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
TB : TURBO ENGINE MODEL
WO : SOHC MODEL
OO : SOHC W/O OBD MODEL
WT : DOHC TURBO MODEL AND SOHC MODEL
*1 : DOHC TURBO MODEL AND SOHC MODEL : BR
SOHC W/O OBD MODEL : RG
*2 : DOHC TURBO MODEL AND SOHC MODEL : BR
SOHC W/O OBD MODEL : YG
DATA LINK CONNECTOR
ABS(L)-02 B
ABS(L)-02 C
MAIN RELAY
B47
F44
B61
B62
F45
B22
E3
F60
B180
B179
B139
B138
B40
GE
OO B84 ENGINE CONTROL MODULE

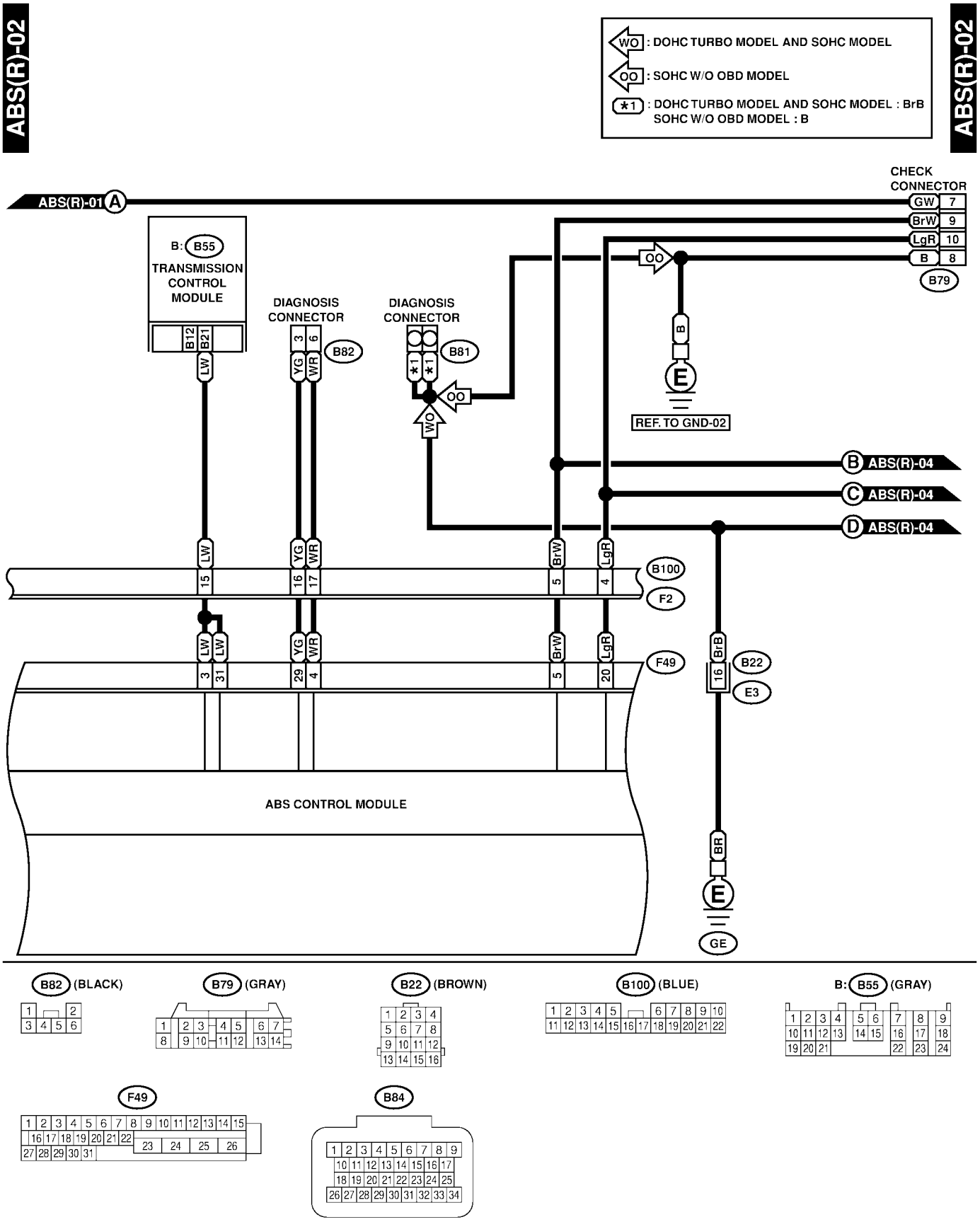
B138
B47 (BROWN)
B61
B179
B40
F60 (BROWN)
B22 (BROWN)
B84

SL82-20D

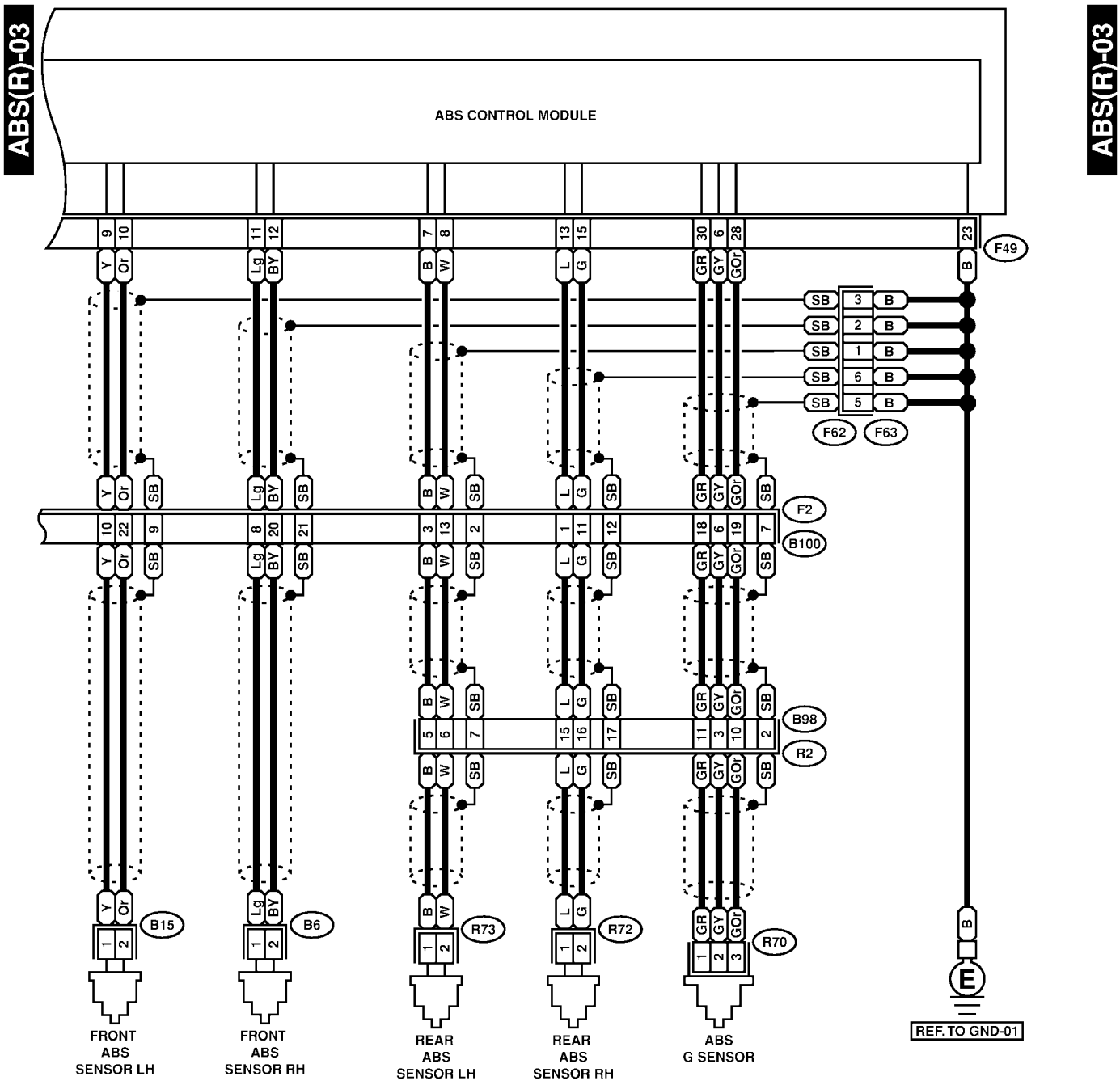
2. RHD MODEL S903484A2102

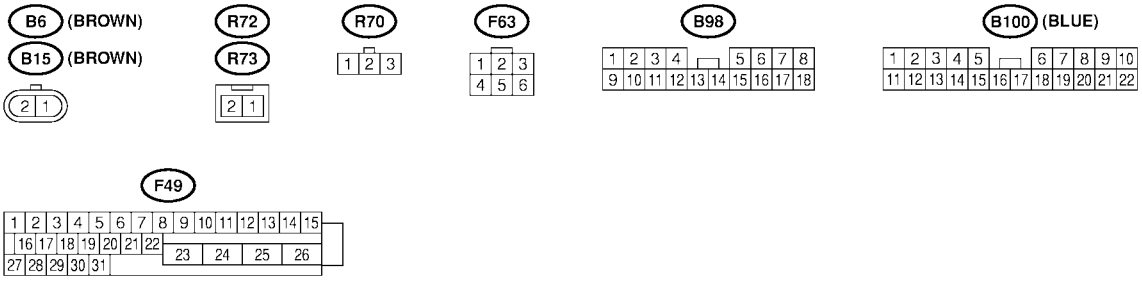


SR82-20A

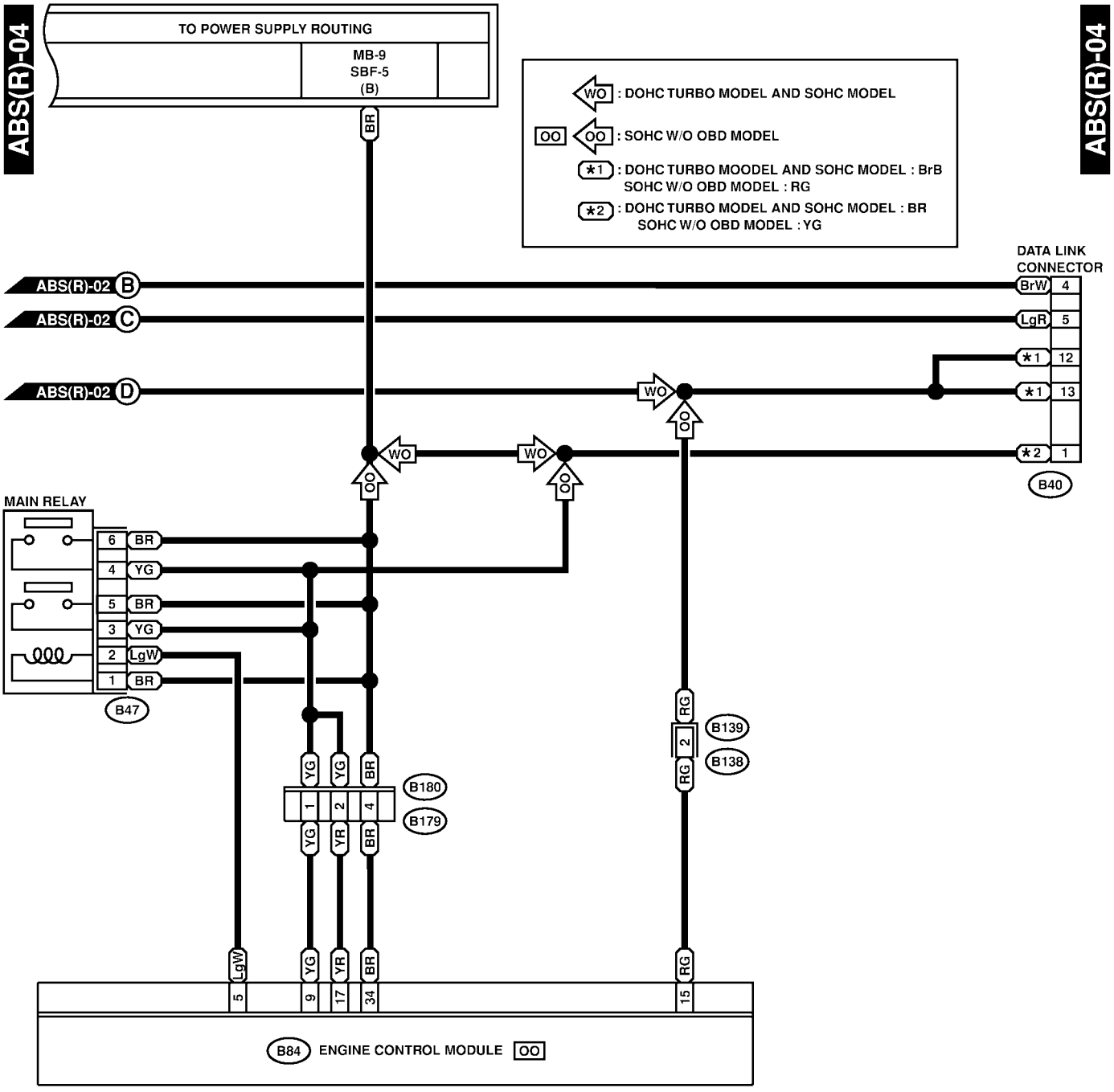

ABS(R)-02
WO : DOHC TURBO MODEL AND SOHC MODEL
OO : SOHC W/O OBD MODEL
*1 : DOHC TURBO MODEL AND SOHC MODEL : BrB
SOHC W/O OBD MODEL : B
ABS(R)-02
CHECK CONNECTOR
GW 7
BrW 9
LgR 10
B 8
B79
ABS(R)-01 A
B: B55
TRANSMISSION CONTROL MODULE
B12
B21
LW
DIAGNOSIS CONNECTOR
B82
3
6
YG
WR
DIAGNOSIS CONNECTOR
B81
*1
*1
OO
WO
B
E
REF. TO GND-02
B ABS(R)-04
C ABS(R)-04
D ABS(R)-04
LW
YG
WR
BrW
LgR
B100
F2
15
16
17
5
4
LW
LW
YG
WR
BrW
LgR
F49
3
31
29
4
5
20
BrB
B22
16
E3
ABS CONTROL MODULE
BR
E
GE
B82 (BLACK)
B79 (GRAY)
B22 (BROWN)
B100 (BLUE)
B: B55 (GRAY)
F49
B84

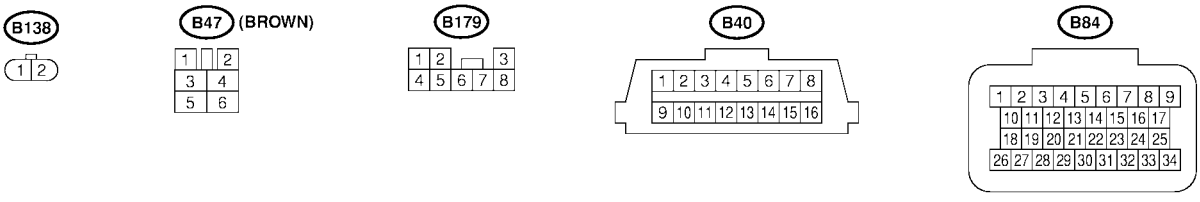
SR82-20B


ABS(R)-03
ABS CONTROL MODULE
ABS(R)-03
F49
F62
F63
F2
B100
B98
R2
B15
B6
R73
R72
R70
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR
REF. TO GND-01


B6 (BROWN)
B15 (BROWN)
R72
R73
R70
F63
B98
B100 (BLUE)
F49

SR82-20C


ABS(R)-04
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
WO : DOHC TURBO MODEL AND SOHC MODEL
OO : SOHC W/O OBD MODEL
*1 : DOHC TURBO MOODEL AND SOHC MODEL : BrB
SOHC W/O OBD MODEL : RG
*2 : DOHC TURBO MODEL AND SOHC MODEL : BR
SOHC W/O OBD MODEL : YG
DATA LINK CONNECTOR
ABS(R)-02 B
ABS(R)-02 C
ABS(R)-02 D
BrW 4
LgR 5
*1 12
*1 13
*2 1
B40
MAIN RELAY
6 BR
4 YG
5 BR
3 YG
2 LgW
1 BR
B47
RG
2
B139
B138
B180
B179
YG YG BR
YG YR BR
LgW YG YR BR RG
5 9 17 34 15
B84 ENGINE CONTROL MODULE OO


B138
1 2
B47 (BROWN)
1 2
3 4
5 6
B179
1 2 3
4 5 6 7 8
B40
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B84
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

SR82-20D