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. G1830GE7

WIRING SYSTEM

WI

1. Basic Diagnostics Procedure

A: BASIC PROCEDURES

1. GENERAL

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

2. IDENTIFICATION OF TROUBLE SYMPTOM

Determine what the problem is based on the symptom.

3. PROBABLE CAUSE OF TROUBLE

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

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.

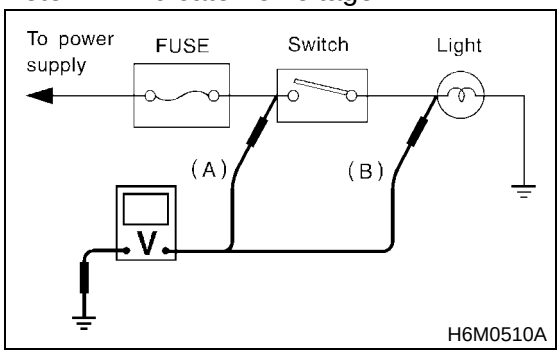
5. CONFIRMATION OF SYSTEM OPERATION

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

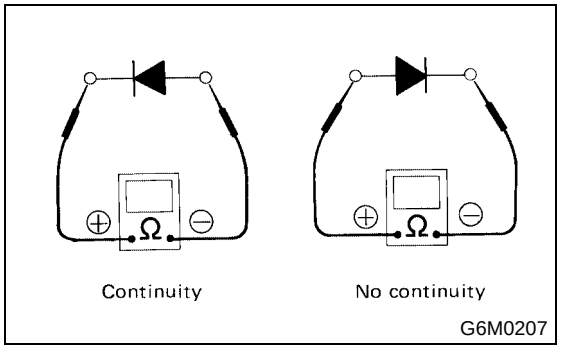
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector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



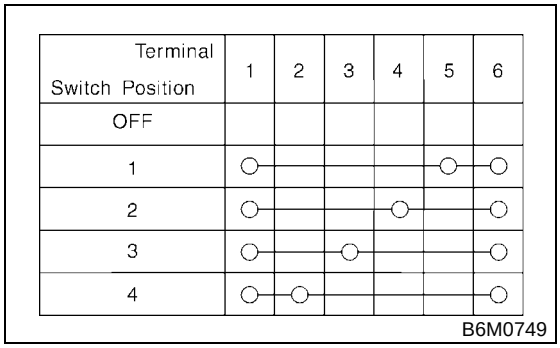
4) With test set-up held as it is, turn switch ON. The voltmeter will indicate a voltage and, at the same time, the light will come on.
5) The circuit is in good order. If a problem such as a lamp failing to light occurs, use the procedures outlined above to track down the malfunction.

2. CIRCUIT CONTINUITY CHECKS

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.

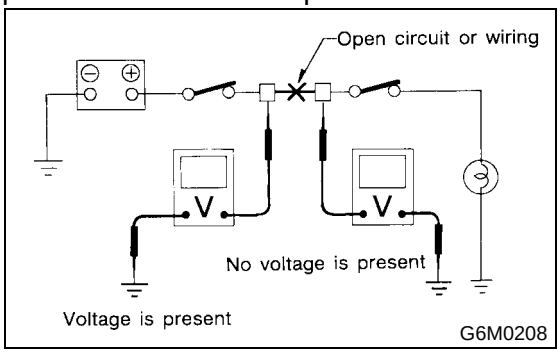


3) Symbol "❍—❍" indicates that continuity exists between two points or terminals. For example, when a switch position is "3", continuity exists among terminals 1, 3 and 6, as shown in table below.

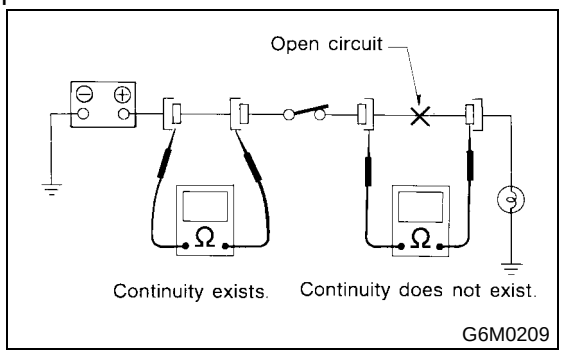


3. HOW TO DETERMINE AN OPEN CIRCUIT

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.

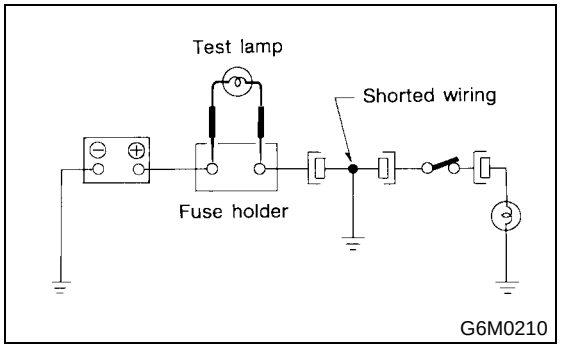


2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



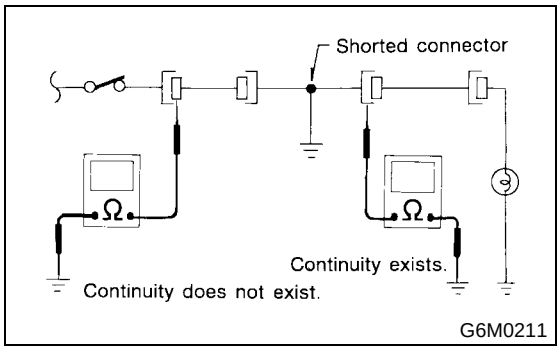
4. HOW TO DETERMINE A SHORT CIRCUIT

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.



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.

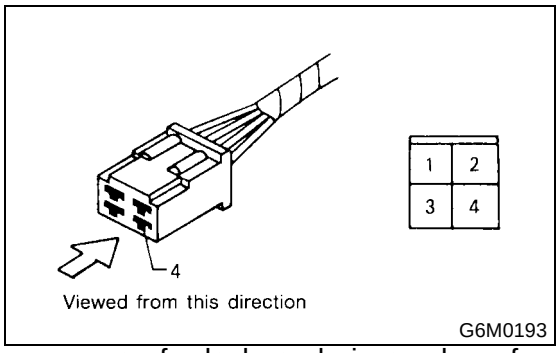


C: HOW TO READ WIRING DIAGRAMS

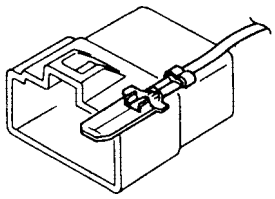
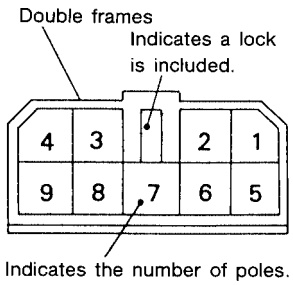
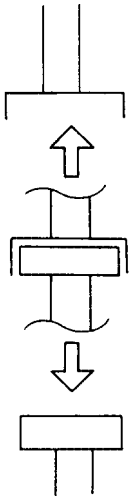
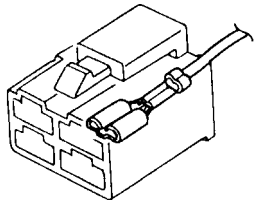
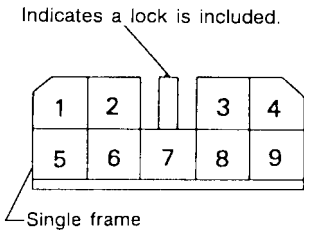
1. WIRING DIAGRAM

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:

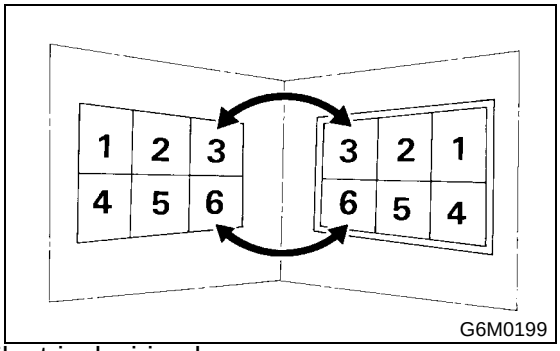
• Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



• 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.

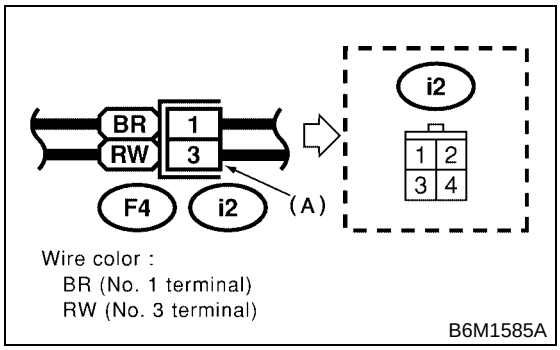


• Electrical wiring harness:

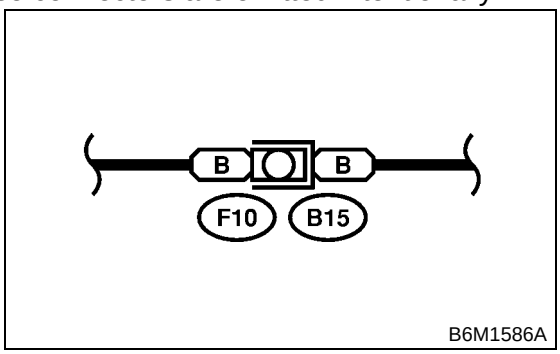
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.

• 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.

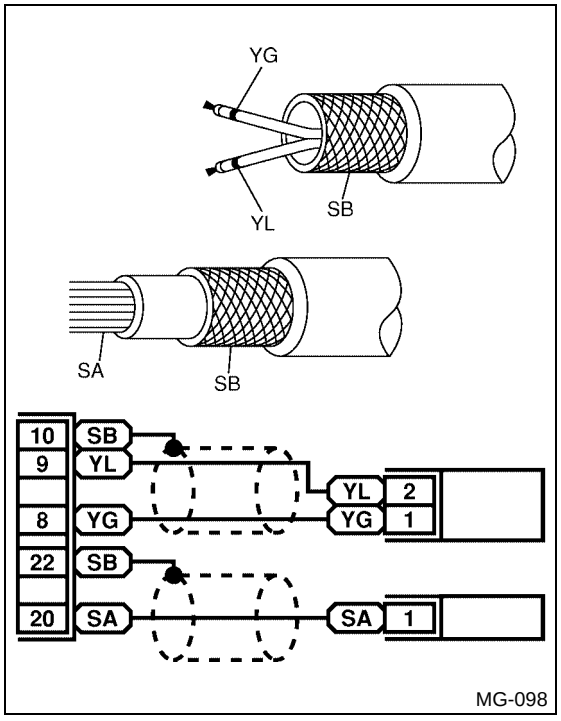


• In wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

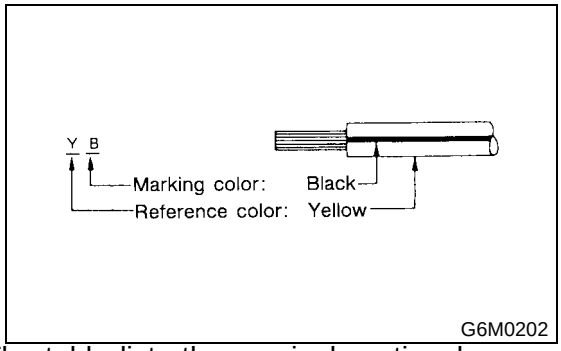


• The following color codes are used to indicate the colors of the wires used.

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.



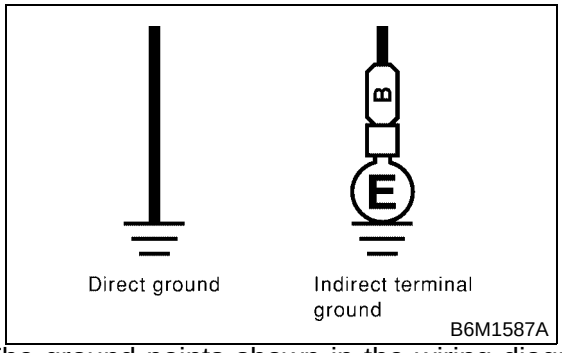
• The table lists the nominal sectional areas and allowable currents of the wires.

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.

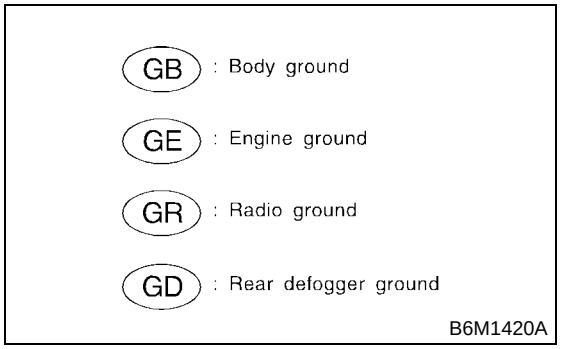
Nominal sectional area mm^2	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32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

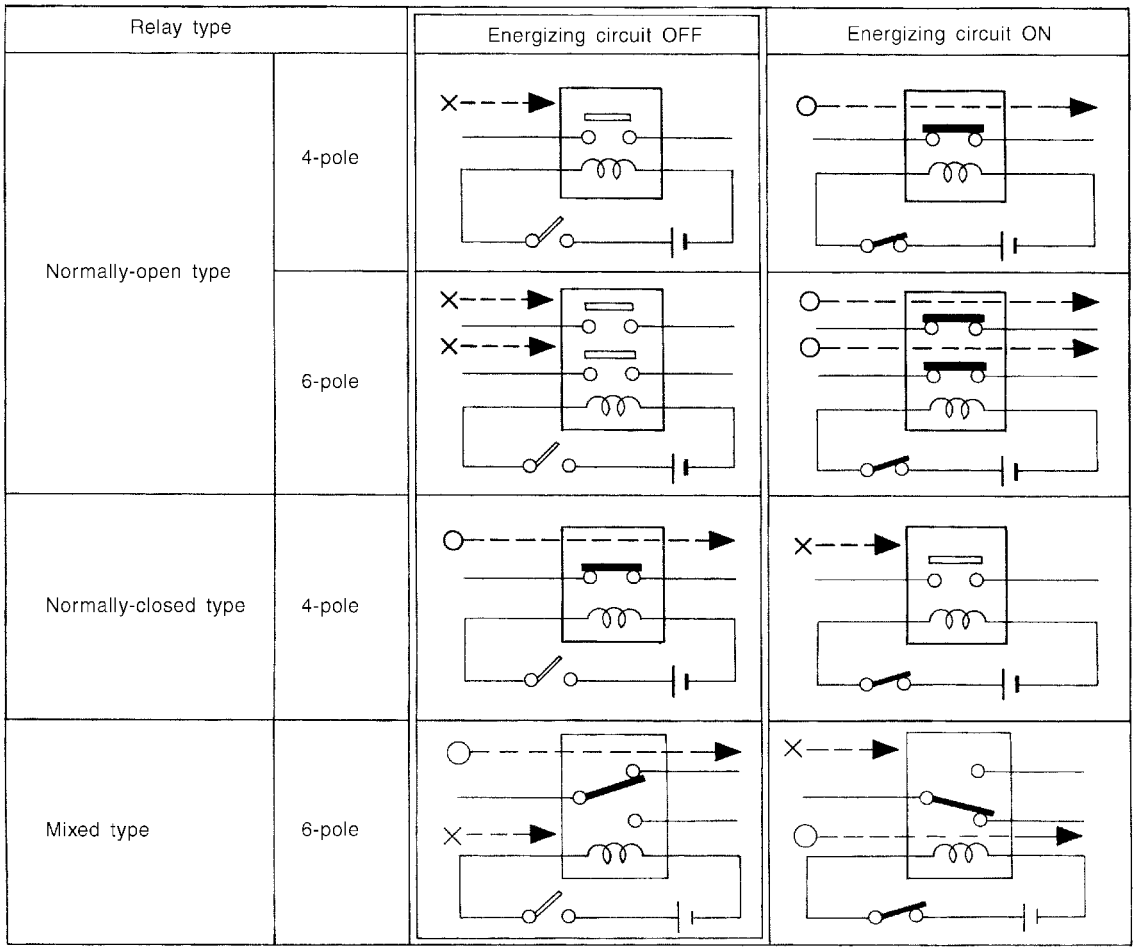


• The ground points shown in the wiring diagram refer to the following:

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.



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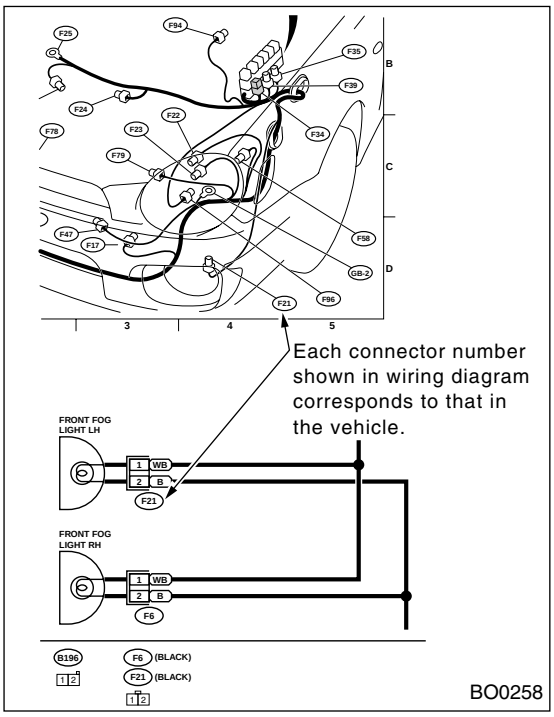
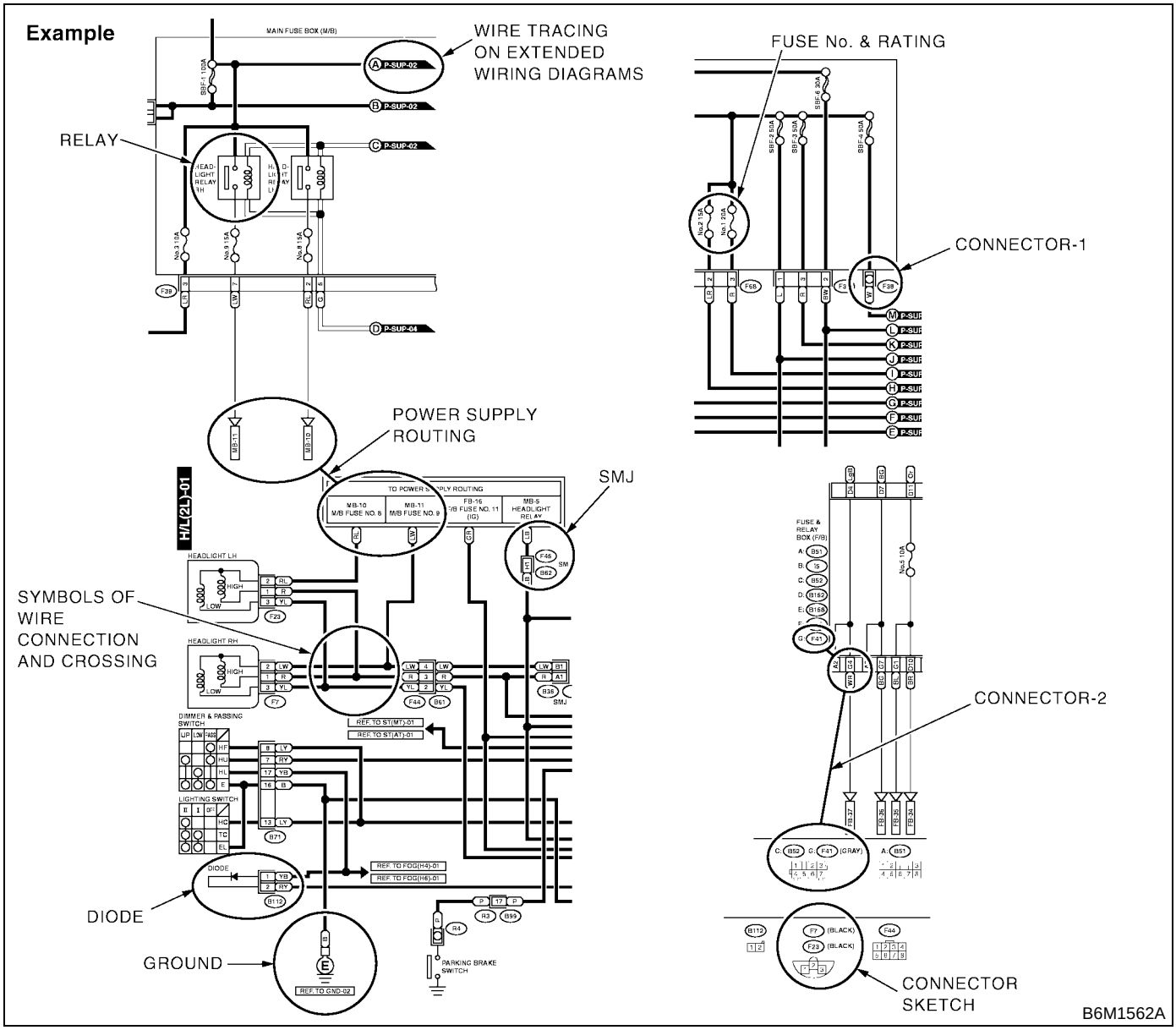
• Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a “F” for F8, “i” for i16, etc.) and the type of wiring harness.
The first character 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, Rear oxygen sensor cord
D	Door cord LH & RH, Rear door cord LH & RH, Rear gate cord
i	Instrument panel wiring harness
R	Rear wiring harness, Fuel tank cord, Roof cord, ORVR cord



D: SYMBOLS IN WIRING DIAGRAMS

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



1. RELAY

A symbol used to indicate a relay.

2. CONNECTOR-1

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

3. WIRING CONNECTION

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

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

5. CONNECTOR-2

- 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

• 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

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

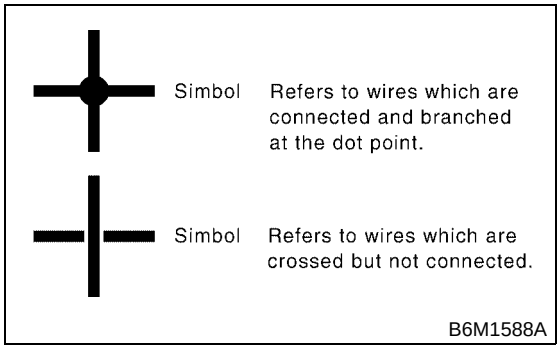
8. DIODE

A symbol is used to indicate a diode.

9. WIRE TRACING ON EXTENDED WIRING DIAGRAMS

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

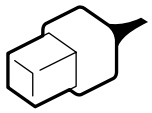
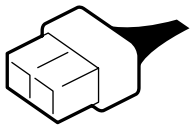
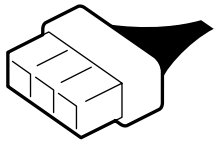
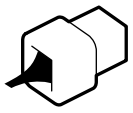
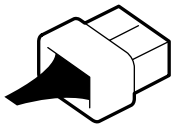
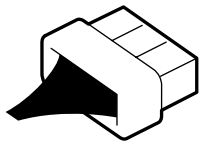
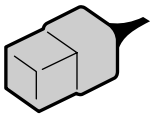
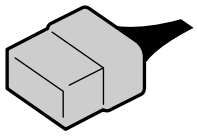
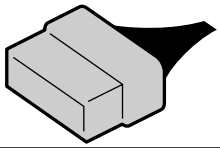
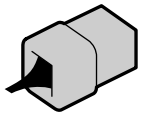
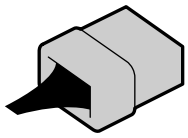
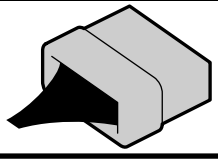


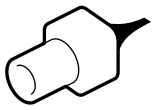
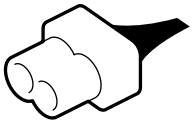
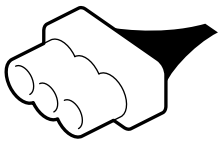
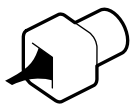
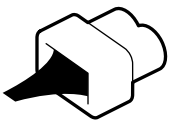
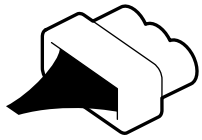
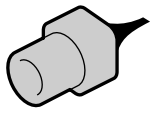
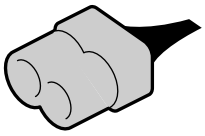
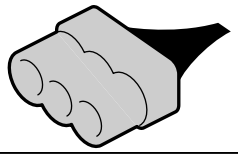
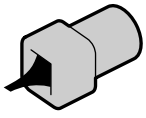
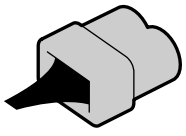
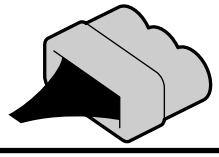
11.POWER SUPPLY ROUTING

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: CONNECTOR SYMBOL IN WIRING HARNESS

Main symbols of connector (in wiring harness) are indicated in the below.

Standard type: Female		
Pole: From 1 to 8	Pole: From 9 to 20	Pole: More than 21
		
		
Standard type: Male		
		
		

Water proof type: Female		
Pole: From 1 to 8	Pole: From 9 to 20	Pole: More than 21
		
		
Water proof type: Male		
		
		

BO0257

F: ABBREVIATION IN WIRING DIAGRAMS

Abbr.	Full name
ABS	Antilock Brake System
ACC	Accessory
A/C	Air Conditioning
AD	Auto Down
A/S	Air suspension
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

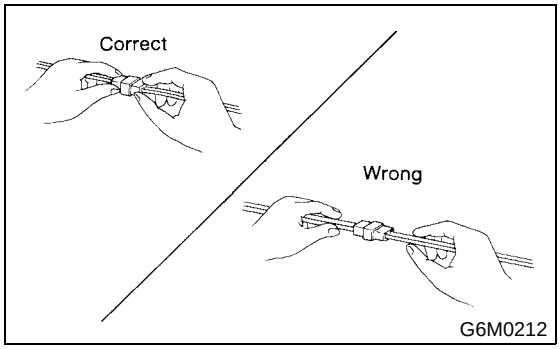
2. Working Precautions

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

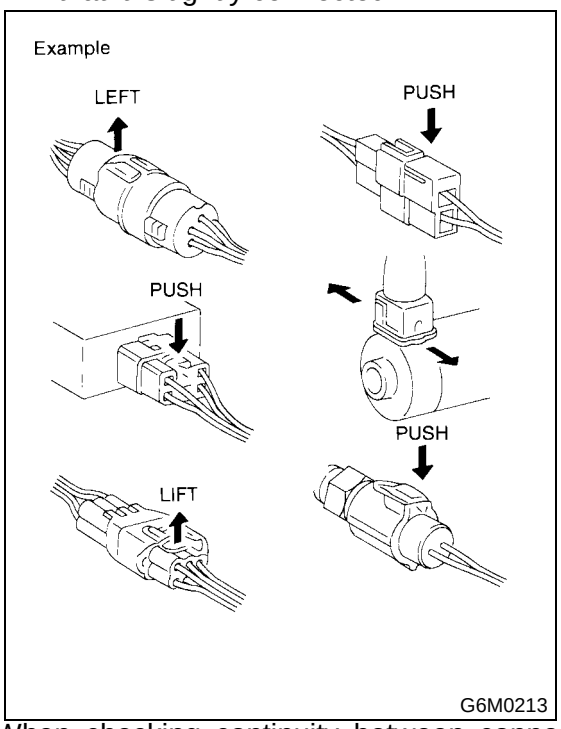
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running 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

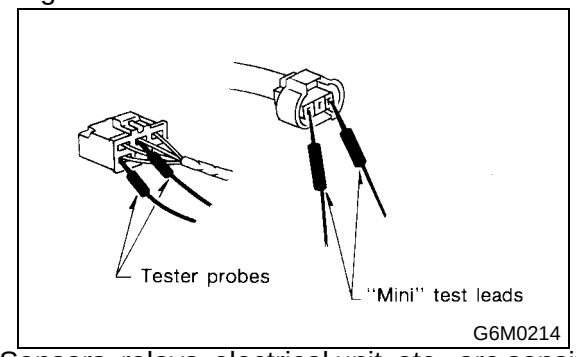
1) The battery cable must be disconnected from the battery's (–) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts 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 water-proof 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.



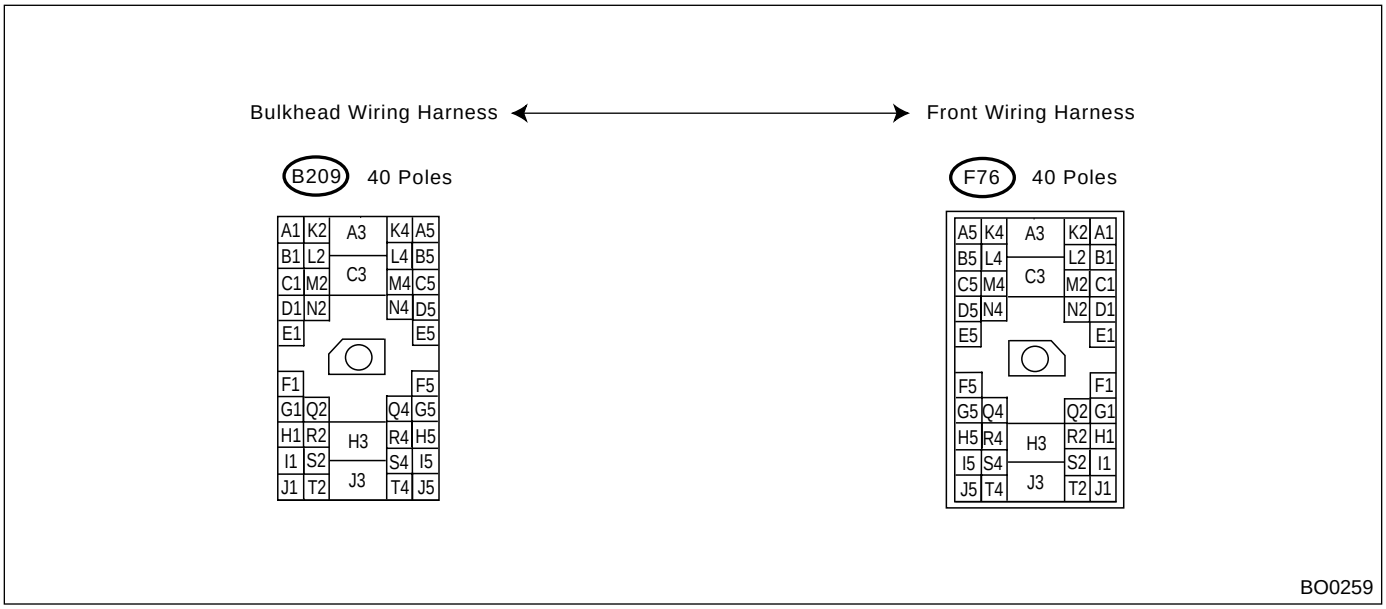
7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts.
Handle them with care so that they are not dropped or mishandled.

3. Super Multiple Junction (SMJ)

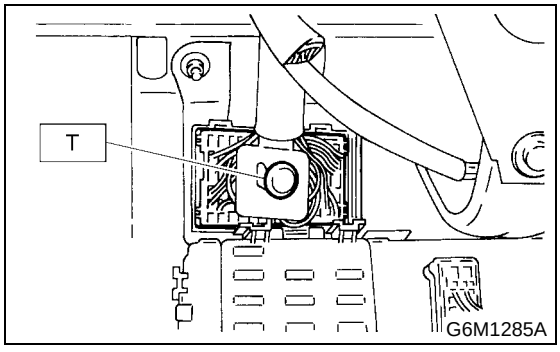
A: HOW TO USE SUPER MULTIPLE JUNCTION (SMJ)

The “SMJ” indicated in wiring diagrams is shown in a simplified form.

B: TERMINAL ARRANGEMENT



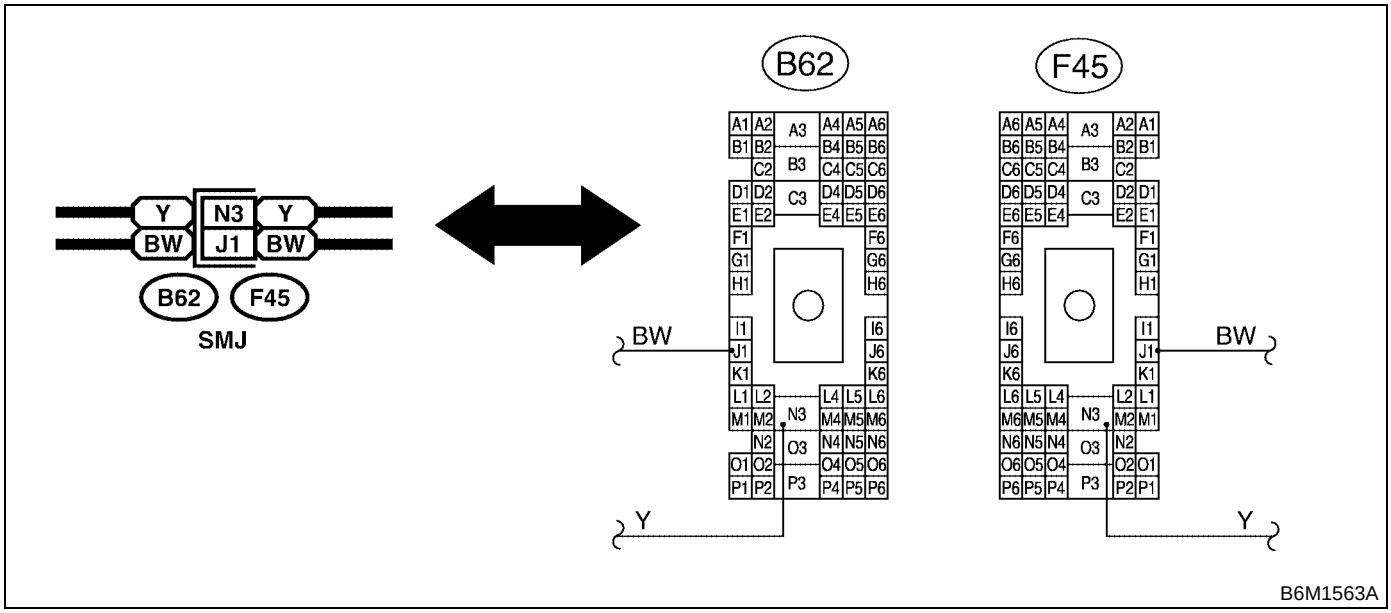
C: INSTALLATION



Tightening torque:
T: 4.4 N·m (0.45 kgf-m, 3.3 ft-lb)

NOTE:
• Align the cutout portion of one connector with that of other before tightening the connecting bolt.
• Do not tighten the bolt excessively since this may deform the connectors.

D: EXPLANATION OF SMJ SHOWN IN THE WIRING DIAGRAM



4. Power Supply Routing

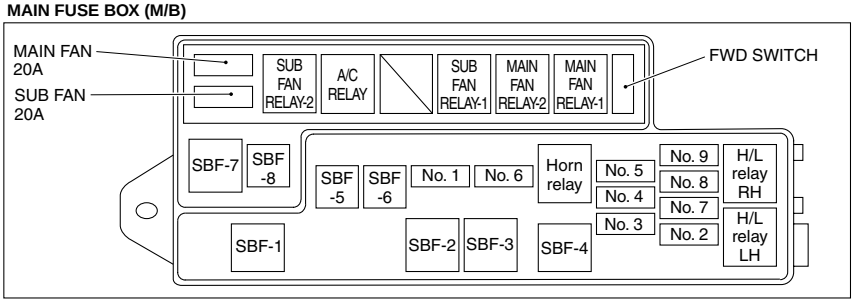
A: SCHEMATIC

1. LHD MODEL

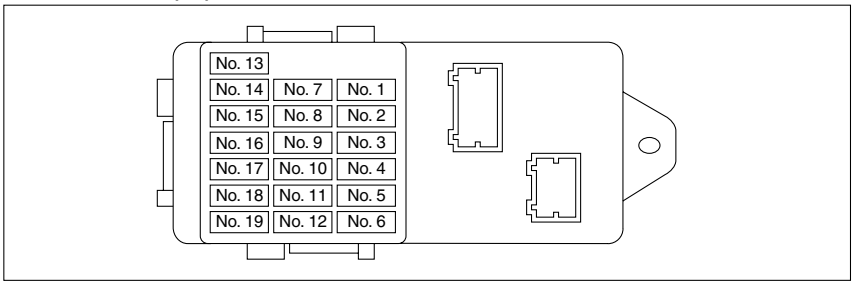
P-SUP(L)-01

P-SUP(L)-01

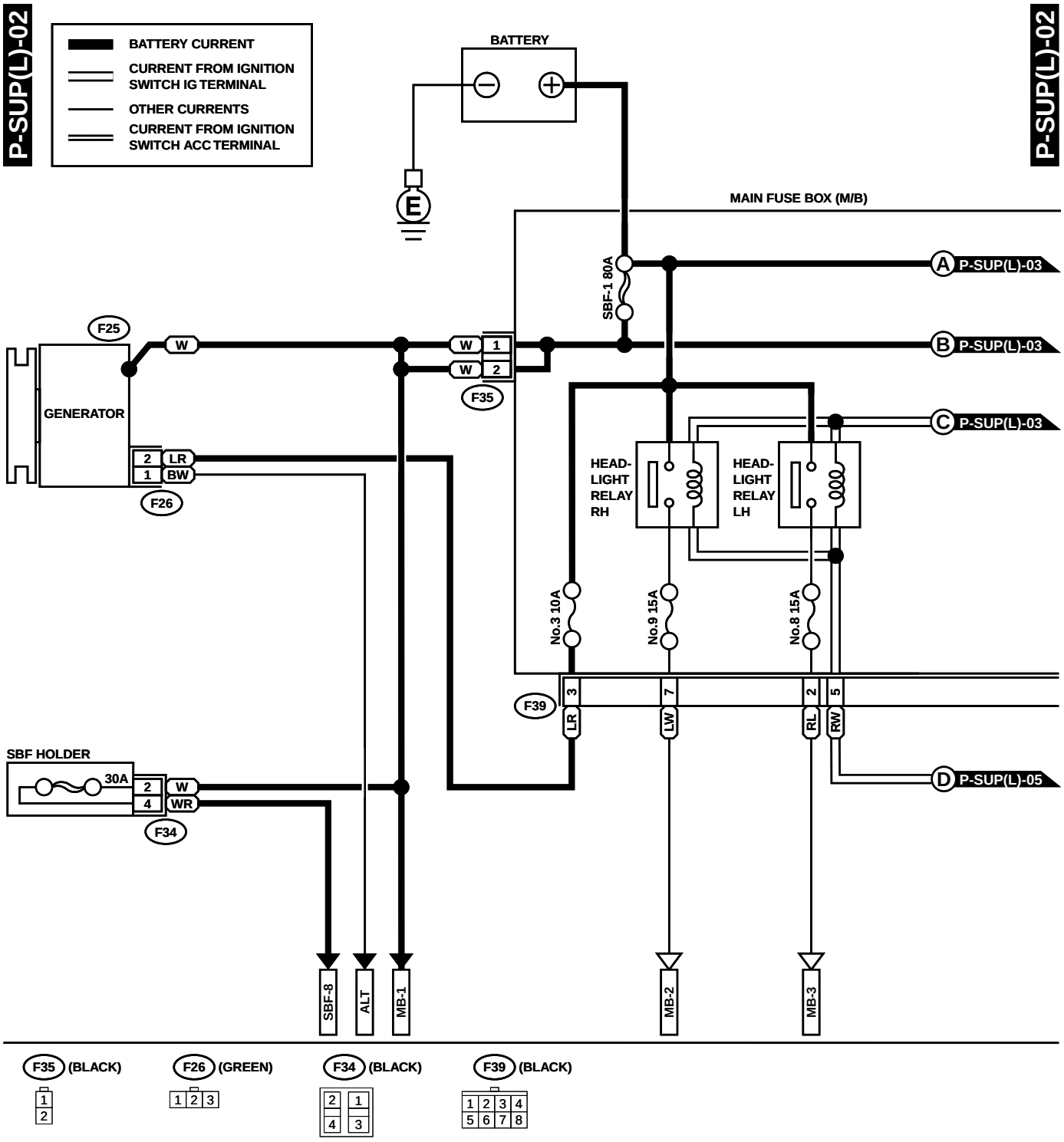
MAIN FUSE BOX (M/B)



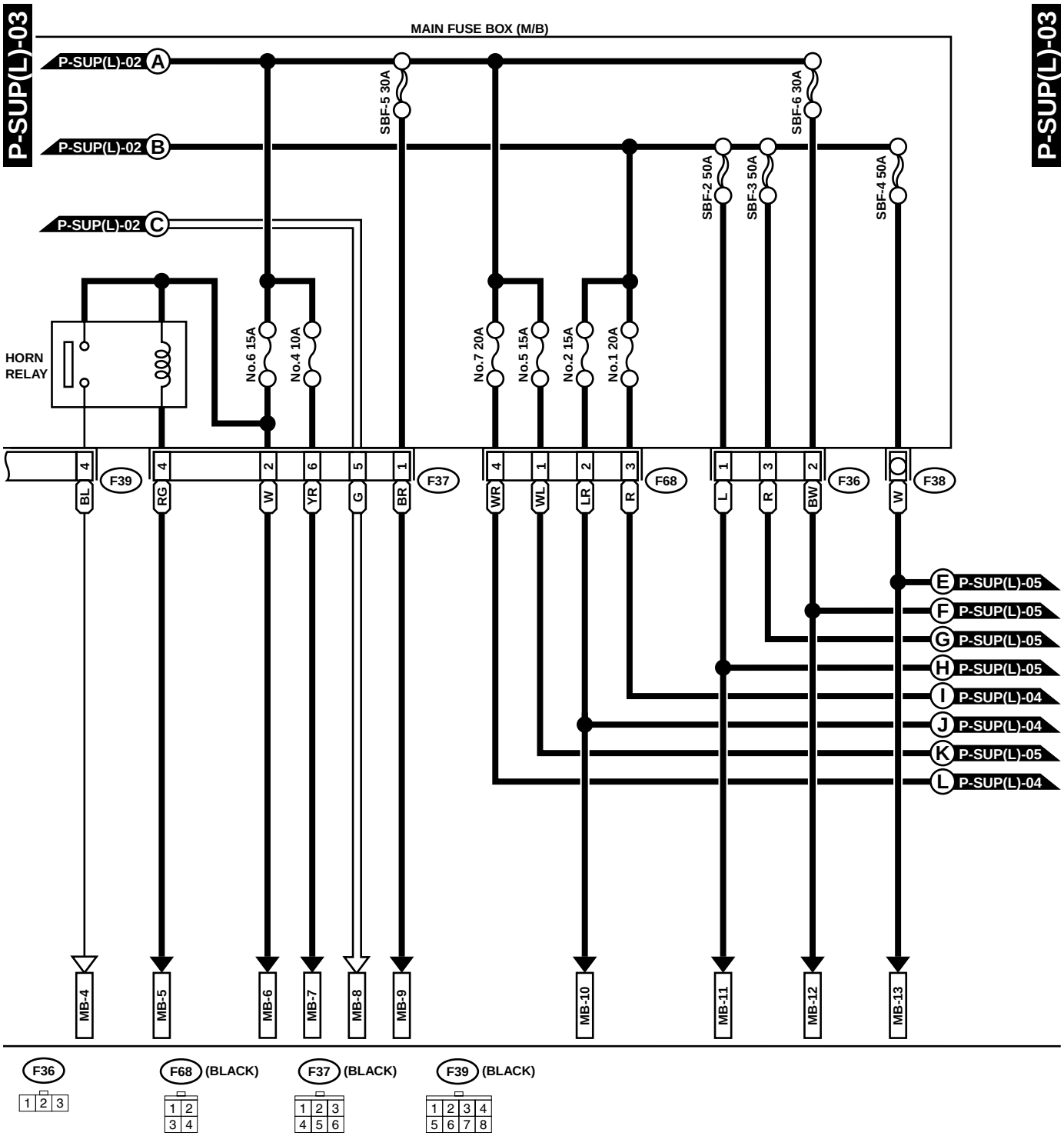
FUSE & RELAY BOX (F/B)



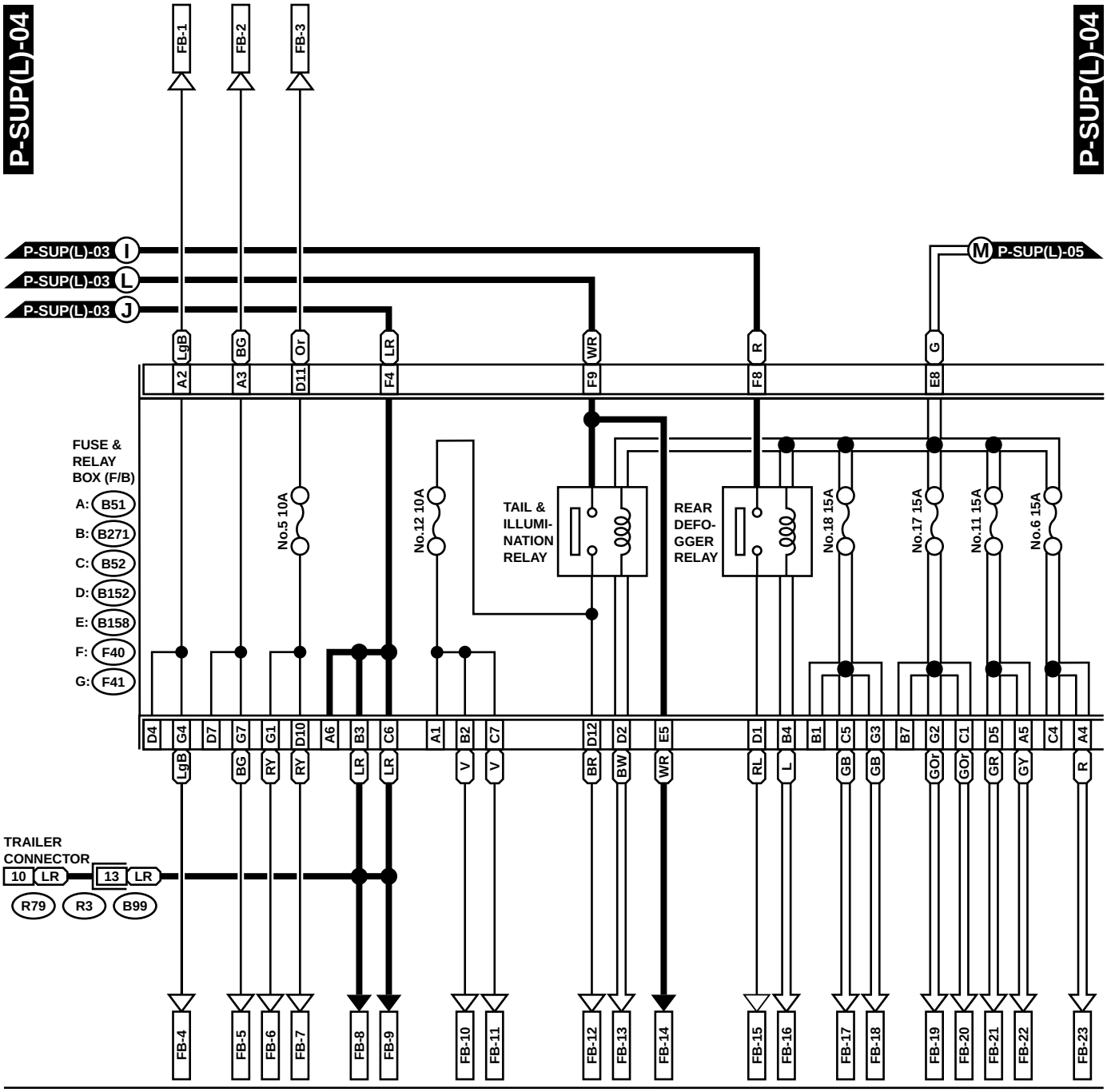
GL01-20A


P-SUP(L)-02
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 RW
D P-SUP(L)-05
SBF HOLDER
30A
2 W
4 WR
F34
SBF-8
ALT
MB-1
MB-2
MB-3
F35 (BLACK)
F26 (GREEN)
F34 (BLACK)
F39 (BLACK)

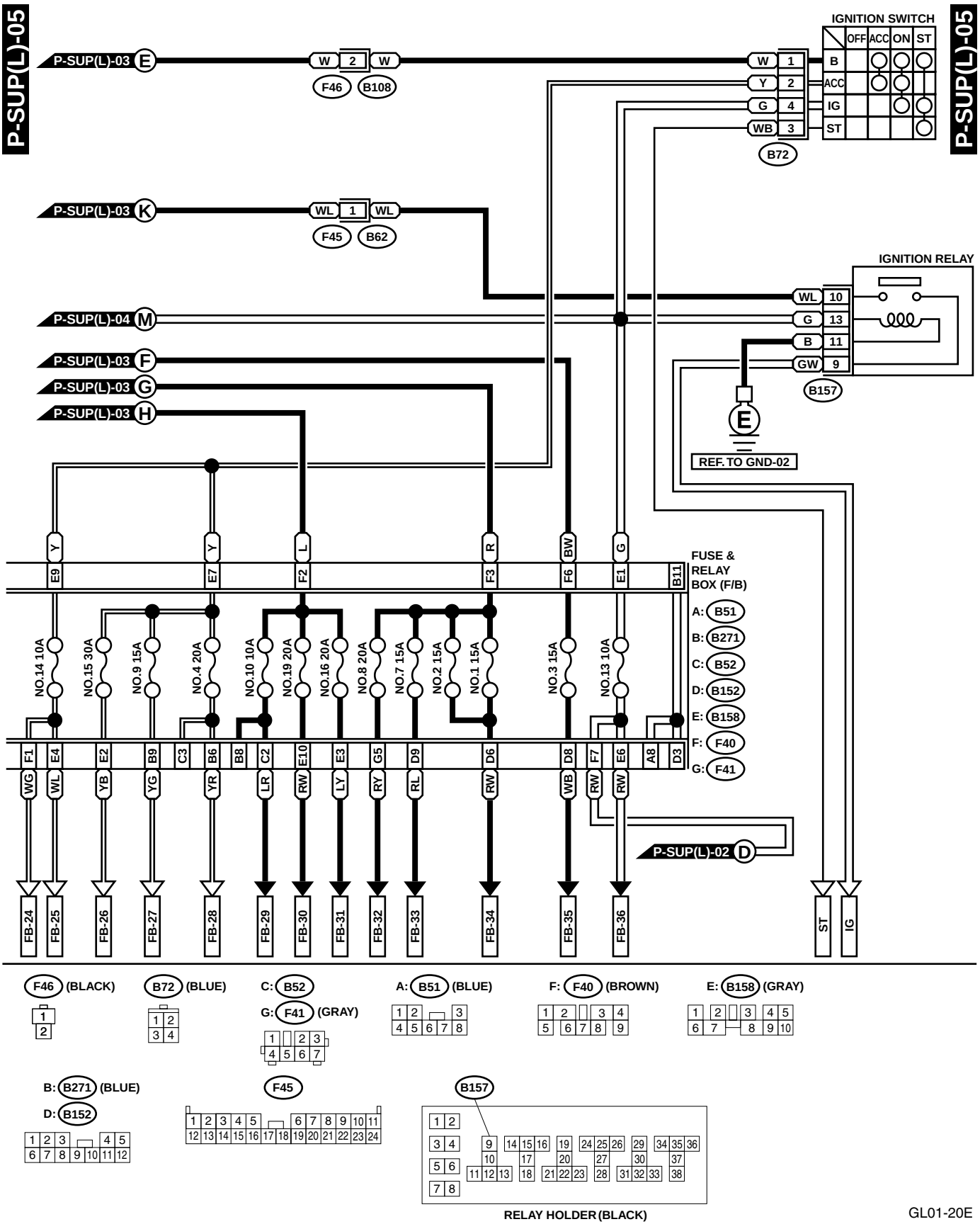
GL01-20B


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-10
MB-11
MB-12
MB-13
F36
F68 (BLACK)
F37 (BLACK)
F39 (BLACK)

GL01-20C


P-SUP(L)-04
P-SUP(L)-04
FB-1
FB-2
FB-3
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: B271
C: B52
D: B152
E: B158
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
LgB BG RY RY LR LR V V BR BW WR RL L GB GB GOr GOr GR GY R
TRAILER CONNECTOR
10 LR
13 LR
R79 R3 B99
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 FB-22 FB-23
C: B52
G: F41 (GRAY)
A: B51 (BLUE)
F: F40 (BROWN)
E: B158 (GRAY)
R79
B: B271 (BLUE)
D: B152
B99

GL01-20D


P-SUP(L)-05
P-SUP(L)-05
P-SUP(L)-03 E
W 2 W
F46 B108
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
W 1
Y 2
G 4
WB 3
B72
P-SUP(L)-03 K
WL 1 WL
F45 B62
IGNITION RELAY
WL 10
G 13
B 11
GW 9
B157
P-SUP(L)-04 M
P-SUP(L)-03 F
P-SUP(L)-03 G
P-SUP(L)-03 H
E
REF. TO GND-02
Y
Y
L
R
BW
G
E9
E7
F2
F3
F6
E1
B11
FUSE & RELAY BOX (F/B)
A: B51
B: B271
C: B52
D: B152
E: B158
F: F40
G: F41
NO.14 10A
NO.15 30A
NO.9 15A
NO.4 20A
NO.10 10A
NO.19 20A
NO.16 20A
NO.8 20A
NO.7 15A
NO.2 15A
NO.1 15A
NO.3 15A
NO.13 10A
F1 E4 E2 B9 C3 B6 B8 C2 E10 E3 G5 D9 D6 D8 F7 E6 A8 D3
WG WL YB YG YR LR RW LY RY RL RW WB RW RW
P-SUP(L)-02 D
FB-24 FB-25 FB-26 FB-27 FB-28 FB-29 FB-30 FB-31 FB-32 FB-33 FB-34 FB-35 FB-36
ST
IG
F46 (BLACK)
B72 (BLUE)
C: B52
G: F41 (GRAY)
A: B51 (BLUE)
F: F40 (BROWN)
E: B158 (GRAY)
B: B271 (BLUE)
D: B152
F45
B157
RELAY HOLDER (BLACK)

GL01-20E

No.	Load
MB-1	Air conditioning relay holder
MB-2	Combination meter Headlight RH
MB-3	Headlight LH
MB-4	Horn
MB-5	Cruise control sub switch Horn switch
MB-6	Hazard switch Key warning switch
MB-7	Transmission control module
MB-8	Diode (With rear fog light model) Lighting switch
MB-9	Data link connector Engine control module Fuel pump relay Immobilizer control module Main relay
MB-12	Power window circuit breaker
MB-13	Relay holder
SBF-8	ABS control module
IG	Hazard switch Power window relay
ST	Engine control module Inhibitor switch (AT) Starter motor (MT)
FB-1	Hazard switch Rear turn signal light RH Trailer connector Turn signal switch
FB-2	Hazard switch Rear turn signal light LH Trailer connector Turn signal switch
FB-3	Parking switch
FB-4	Front turn signal light RH Side turn signal light RH
FB-5	Front turn signal light LH Side 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 Tail light LH Tail light RH Trailer connector
FB-8 FB-9	Auto A/C control module Combination meter Door lock timer Keyless entry control module Luggage room light (Wagon) Radio Room light Spot light Trunk room light (Sedan)

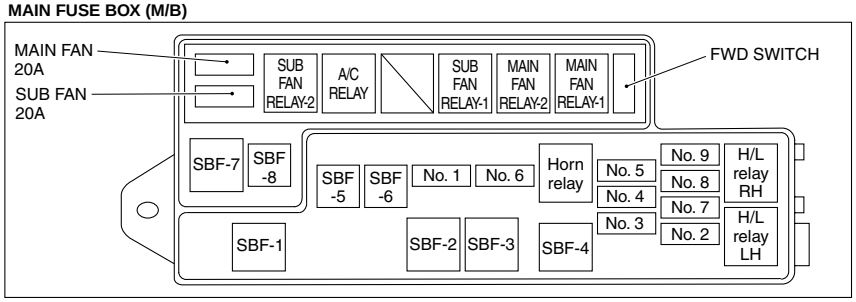
No.	Load
FB-10 FB-11	Bright switch Combination meter Front fog light relay Front fog light switch Headlight leveling switch Illumination light Rear fog light relay Rear fog light switch
FB-12	Parking switch
FB-13	Engine control module Lighting switch
FB-14	Parking switch
FB-15	Mirror heater relay Rear defogger Rear defogger switch
FB-16	Engine control module Rear defogger timer
FB-17	ABS relay Back-up light switch (MT) Check connector Cruise control actuator Cruise control main switch Cruise control module Inhibitor switch (AT) Seat belt timer Vehicle speed sensor (MT)
FB-18	Main relay
FB-19	Air conditioning relay Sub fan relay Thermal protector
FB-20	AUTO A/C control module Blower motor relay Rear defogger timer
FB-21	Engine control module Fuel pump relay Ignition coil and ignitor Immobilizer control module Transmission control module
FB-22	Airbag control module
FB-23	Airbag control module
FB-24	Rear washer motor
FB-25	Rear wiper intermittent module Rear wiper motor
FB-26	Front washer motor Front wiper motor Front wiper switch
FB-27	Auto A/C control module Radio
FB-28	Front accessory power supply socket Remote controlled rearview mirror switch
FB-29	Rear fog light relay
FB-30	Mirror heater relay
FB-31	Stop light switch
FB-32	ABS control module
FB-33	Front fog light relay
FB-34	Blower motor relay

No.	Load
FB-35	Door lock timer Keyless entry control module
FB-36	Combination meter

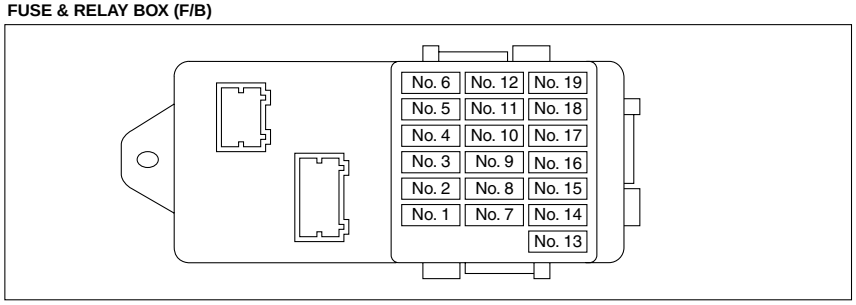
2. RHD MODEL

P-SUP(R)-01

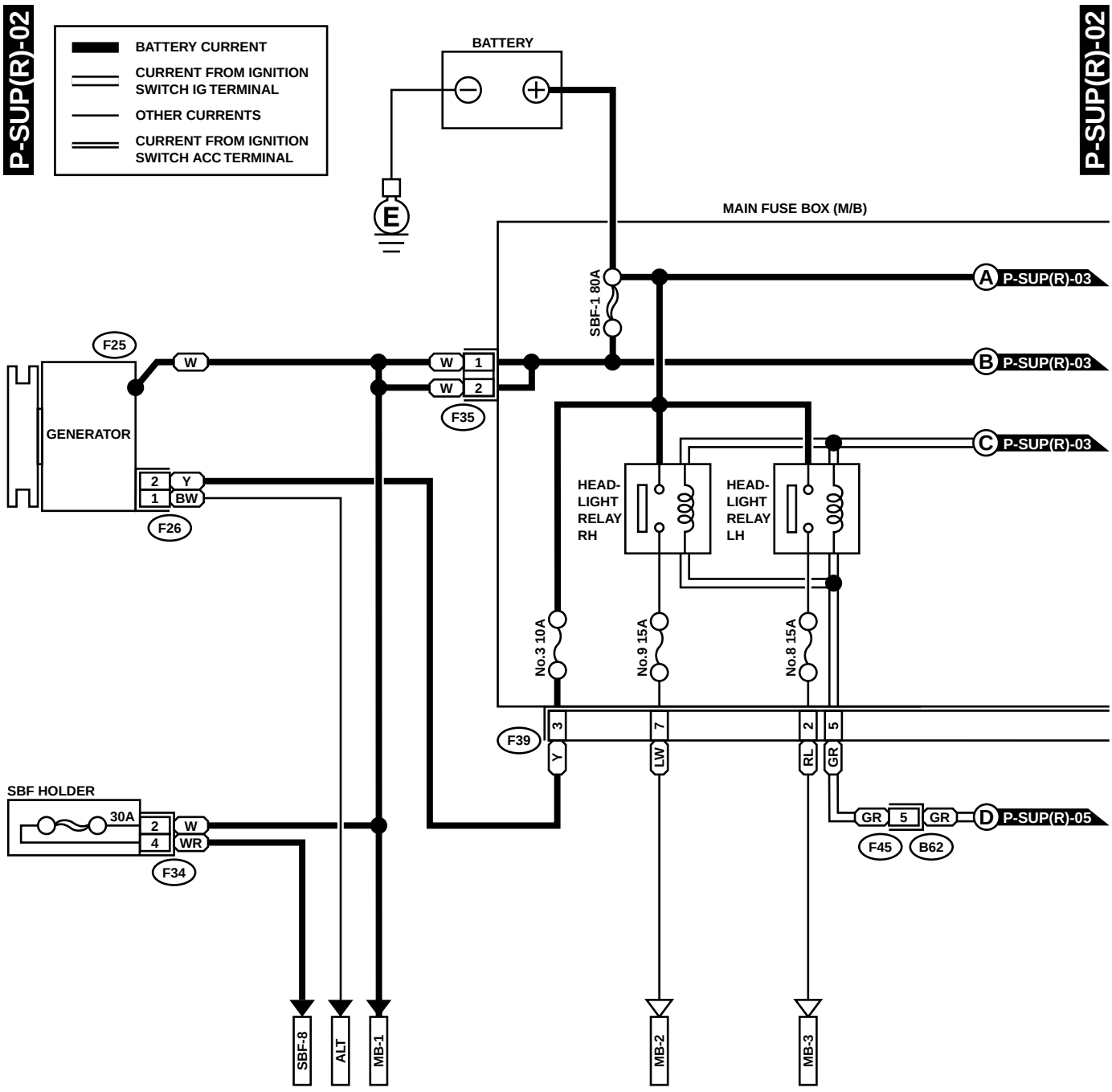
MAIN FUSE BOX (M/B)

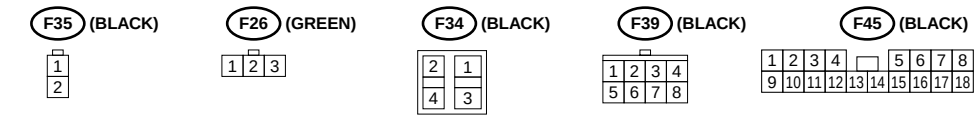


FUSE & RELAY BOX (F/B)

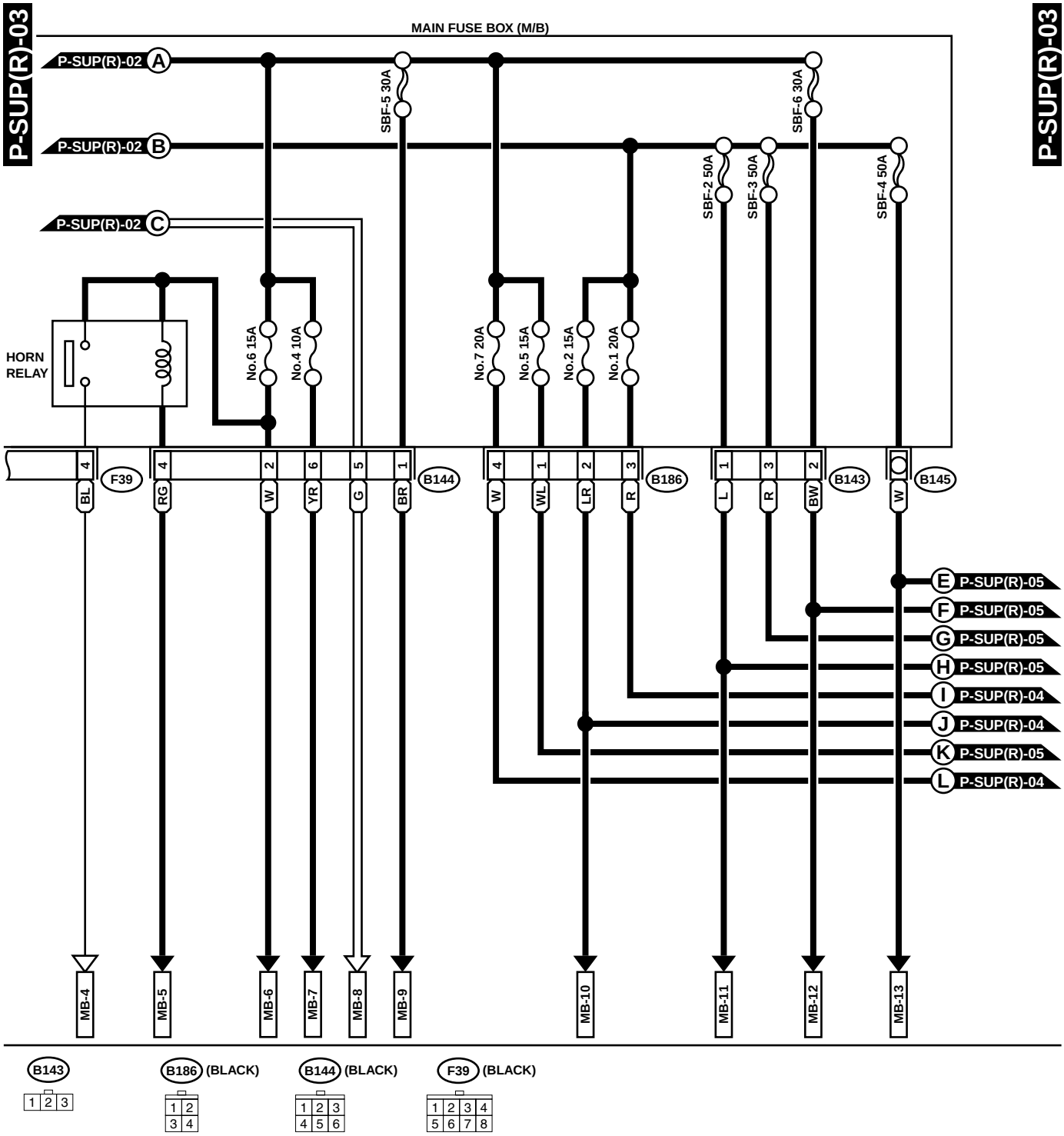


GR01-20A


P-SUP(R)-02
P-SUP(R)-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(R)-03
B P-SUP(R)-03
C P-SUP(R)-03
F25
W
GENERATOR
2 Y
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 Y
7 LW
2 RL
5 GR
SBF HOLDER
30A
2 W
4 WR
F34
GR 5 GR
D P-SUP(R)-05
F45
B62
SBF-8
ALT
MB-1
MB-2
MB-3


F35 (BLACK)
F26 (GREEN)
F34 (BLACK)
F39 (BLACK)
F45 (BLACK)

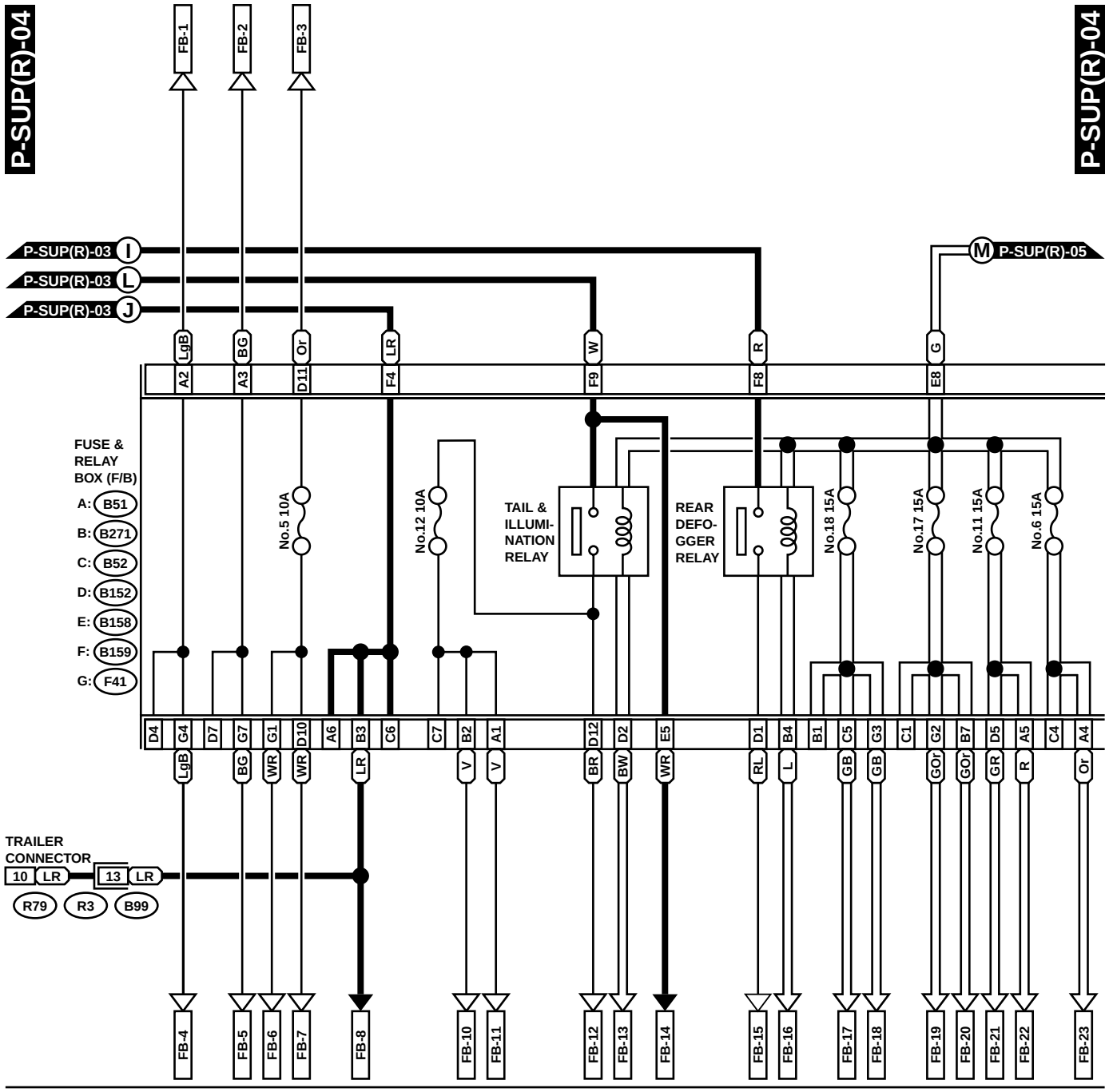
GR01-20B


P-SUP(R)-03
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
W
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
MB-13

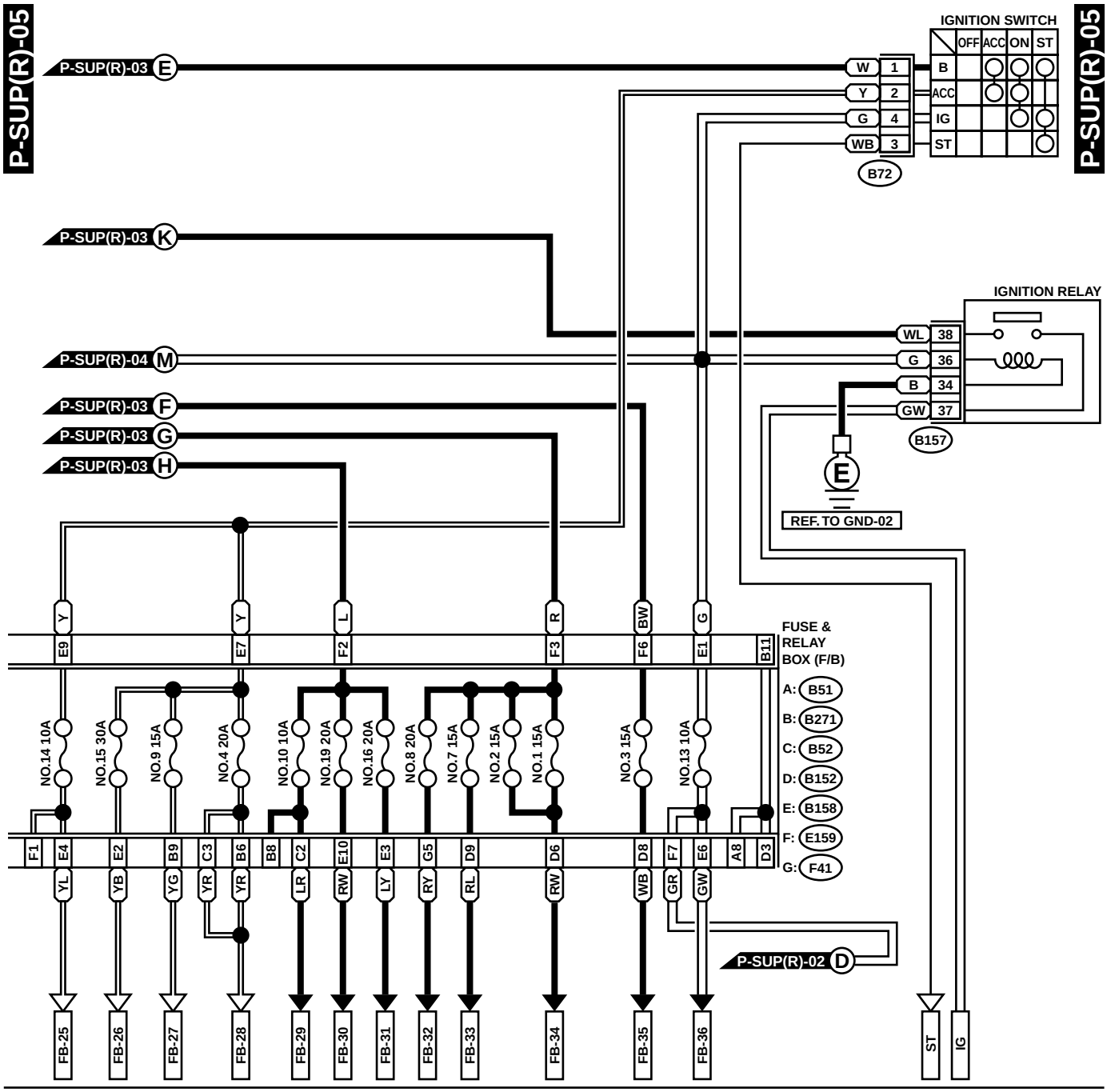
B143
B186 (BLACK)
B144 (BLACK)
F39 (BLACK)

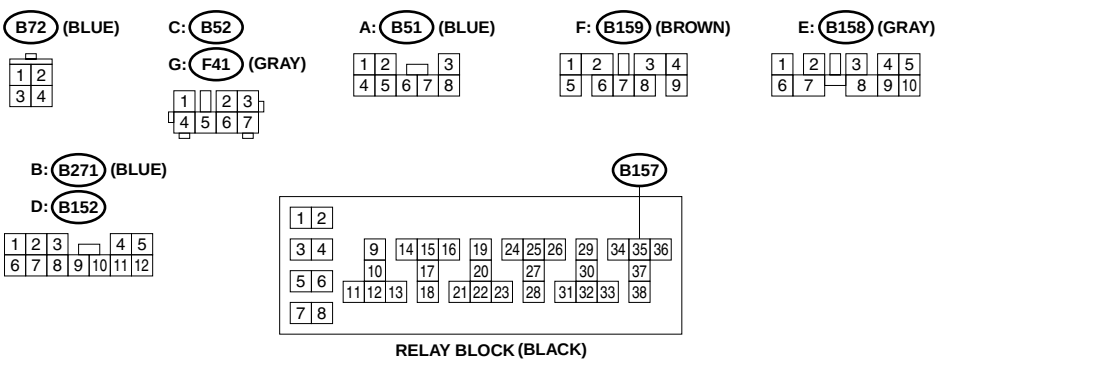
GR01-20C

POWER SUPPLY ROUTING



GR01-20D


P-SUP(R)-05
P-SUP(R)-05
P-SUP(R)-03 E
P-SUP(R)-03 K
P-SUP(R)-04 M
P-SUP(R)-03 F
P-SUP(R)-03 G
P-SUP(R)-03 H
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
W 1
Y 2
G 4
WB 3
B72
IGNITION RELAY
WL 38
G 36
B 34
GW 37
B157
E
REF. TO GND-02
Y Y L R BW G
E9 E7 F2 F3 F6 E1 B11
FUSE & RELAY BOX (F/B)
A: B51
B: B271
C: B52
D: B152
E: B158
F: E159
G: F41
NO.14 10A
NO.15 30A
NO.9 15A
NO.4 20A
NO.10 10A
NO.19 20A
NO.16 20A
NO.8 20A
NO.7 15A
NO.2 15A
NO.1 15A
NO.3 15A
NO.13 10A
F1 E4 E2 B9 C3 B6 B8 C2 E10 E3 G5 D9 D6 D8 F7 E6 A8 D3
YL YB YG YR YR LR RW LY RY RL RW WB GR GW
P-SUP(R)-02 D
FB-25 FB-26 FB-27 FB-28 FB-29 FB-30 FB-31 FB-32 FB-33 FB-34 FB-35 FB-36
ST IG


B72 (BLUE)
C: B52
G: F41 (GRAY)
A: B51 (BLUE)
F: B159 (BROWN)
E: B158 (GRAY)
B: B271 (BLUE)
D: B152
B157
RELAY BLOCK (BLACK)

GR01-20E

No.	Load
MB-1	Air conditioning relay holder
MB-2	Combination meter Headlight RH
MB-3	Headlight LH
MB-4	Horn
MB-5	Cruise control sub switch Horn switch
MB-6	Hazard swtich Keyless entry control module Key warning switch
MB-7	Transmission control module
MB-8	Diode (With rear fog light model) Lighting switch
MB-9	Data link connector Engine control module Fuel pump relay Immobilizer control module Main relay
MB-10	Auto A/C Control module Combination meter Door lock timer Keyless entry control module Luggage room light (Wagon) Radio Room light Spot light Trunk room light (Sedan)
MB-12	Power window circuit breaker
MB-13	Relay holder
SBF-8	ABS control module
IG	Hazard switch
ST	Engine control module Inhibitor switch (AT) Starter motor (MT)
FB-1	Hazard switch Rear turn signal light RH Trailer connector Turn signal switch
FB-2	Hazard switch Rear turn signal light LH Side turn signal light LH Trailer connector Turn signal switch
FB-3	Parking switch
FB-4	Front turn signal light RH Side 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 Tail light LH Tail light RH Trailer connector

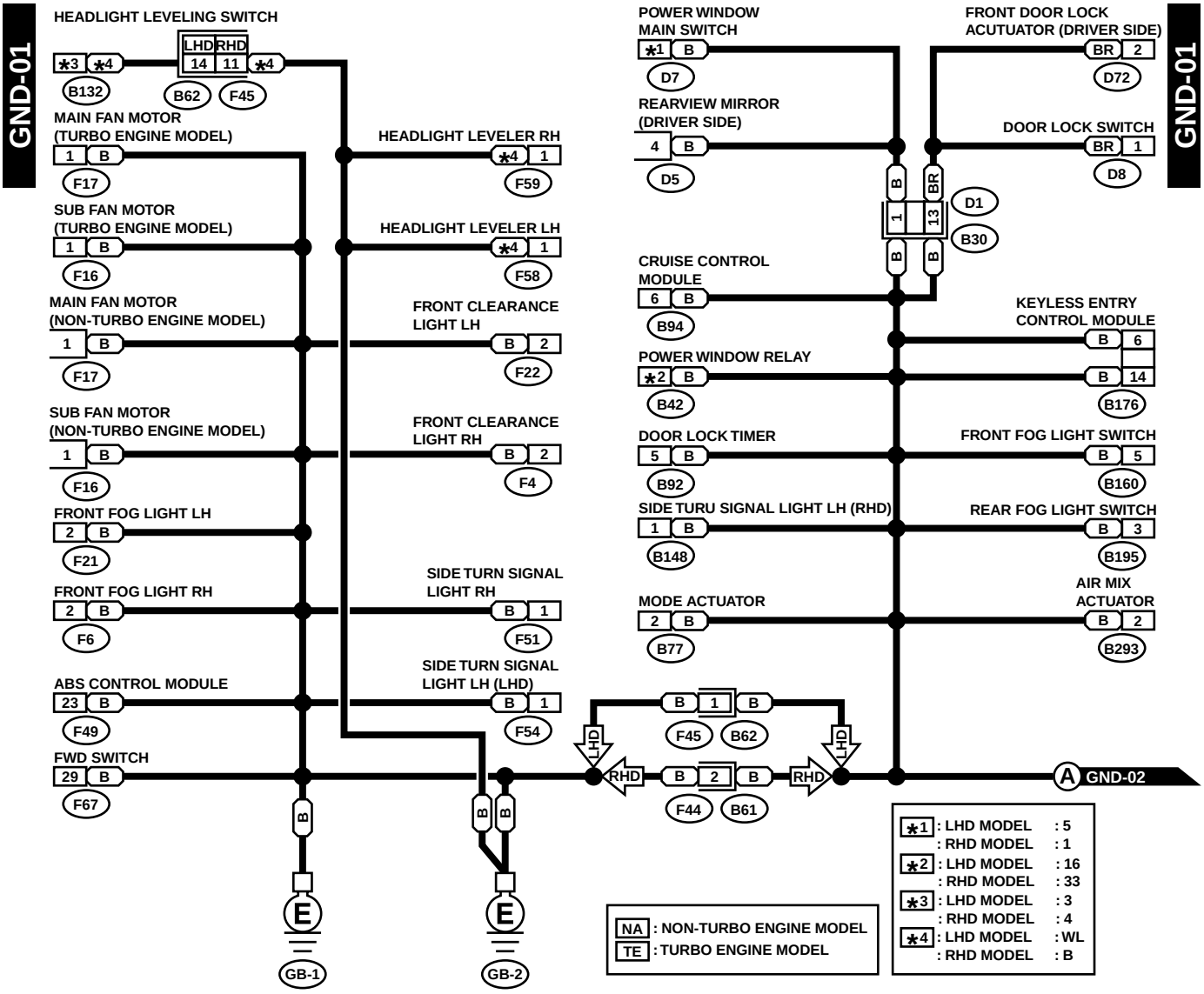
No.	Load
FB-10 FB-11	Bright switch Combination meter Front fog light relay Front fog light switch Headlight leveling switch Illumination control module Illumination light Rear fog light relay Rear fog light switch
FB-12	Parking switch
FB-13	Engine control module Lighting switch
FB-14	Parking switch
FB-15	Mirror heater relay Rear defogger Rear defogger switch
FB-16	Engine control module Rear defogger timer
FB-17	ABS relay Back-up light switch (MT) Check connector Cruise control actuator Cruise control main switch Cruise control module Inhibitor switch (AT) Power window relay Rear defogger timer Vehicle speed sensor (MT)
FB-18	Main relay
FB-19	Air conditioning relay Pressure switch Sub fan relay
FB-20	AUTO A/C control module Blower motor relay
FB-21	Engine control module Fuel pump relay Ignition coil and ignitor Immobilizer control module Transmission control module
FB-22	Airbag control module
FB-23	Airbag control module
FB-25	Rear washer motor Rear wiper intermittent module Rear wiper motor
FB-26	Front washer motor Front wiper motor Front wiper switch
FB-27	Auto A/C control module Radio
FB-28	Front accessory power supply socket Remote controlled rearview mirror switch
FB-29	Rear fog light relay
FB-30	Mirror heater relay
FB-31	Stop light switch
FB-32	ABS control module
FB-33	Front fog light relay
FB-34	Blower motor relay

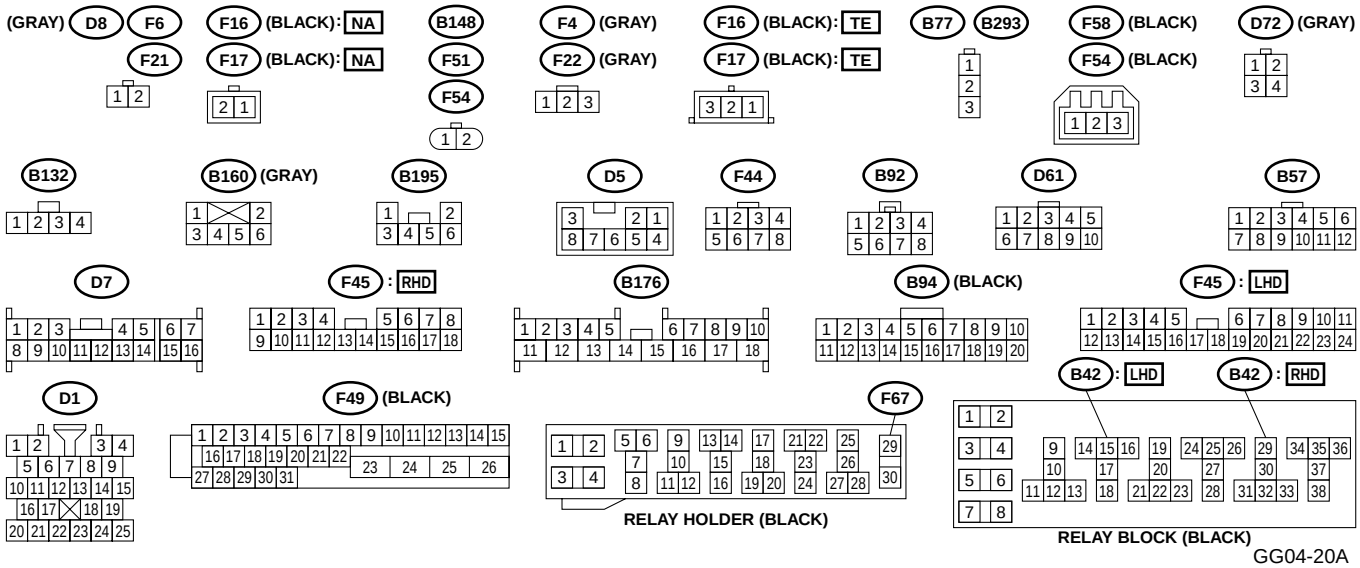
No.	Load
FB-35	Door lock timer Keyless entry control module
FB-36	Combination meter

5. Ground Distribution

A: SCHEMATIC

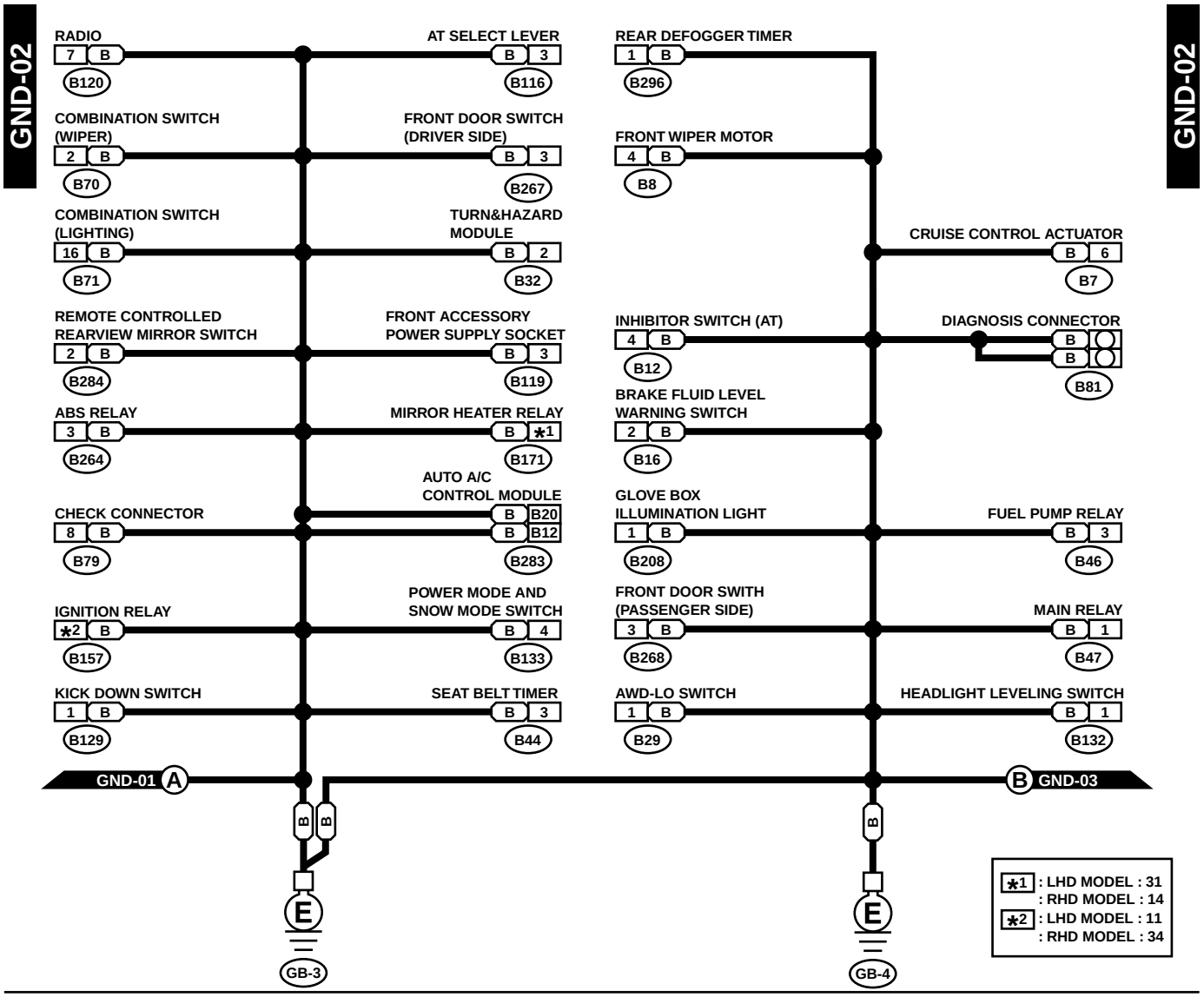
1. ALL MODEL

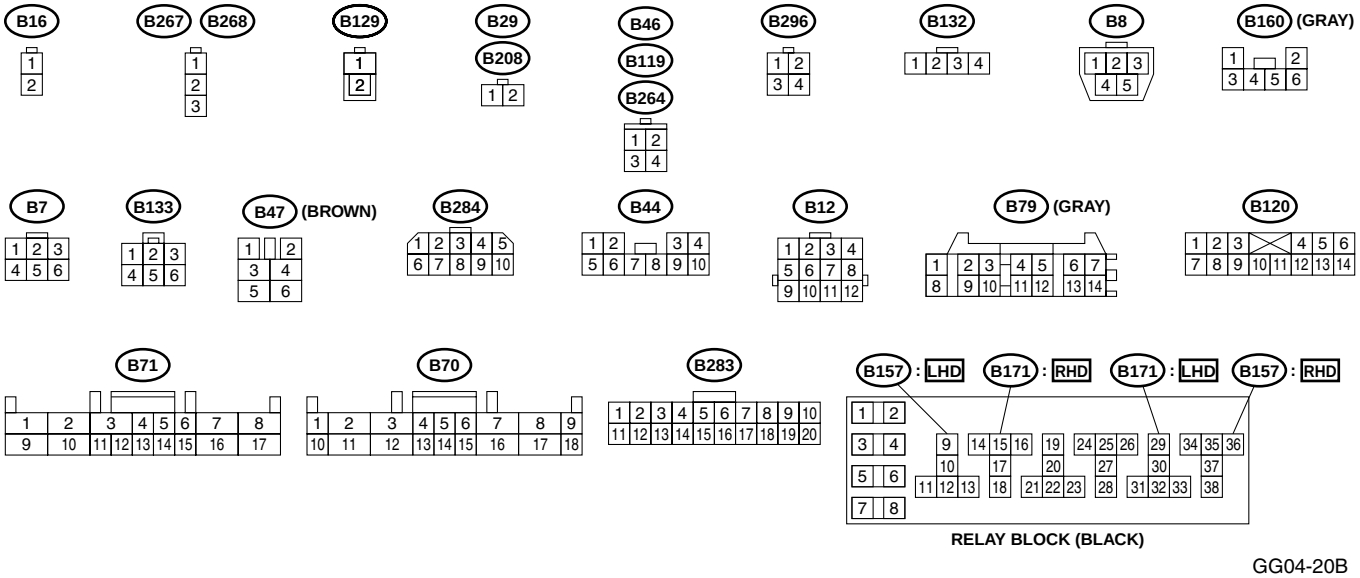




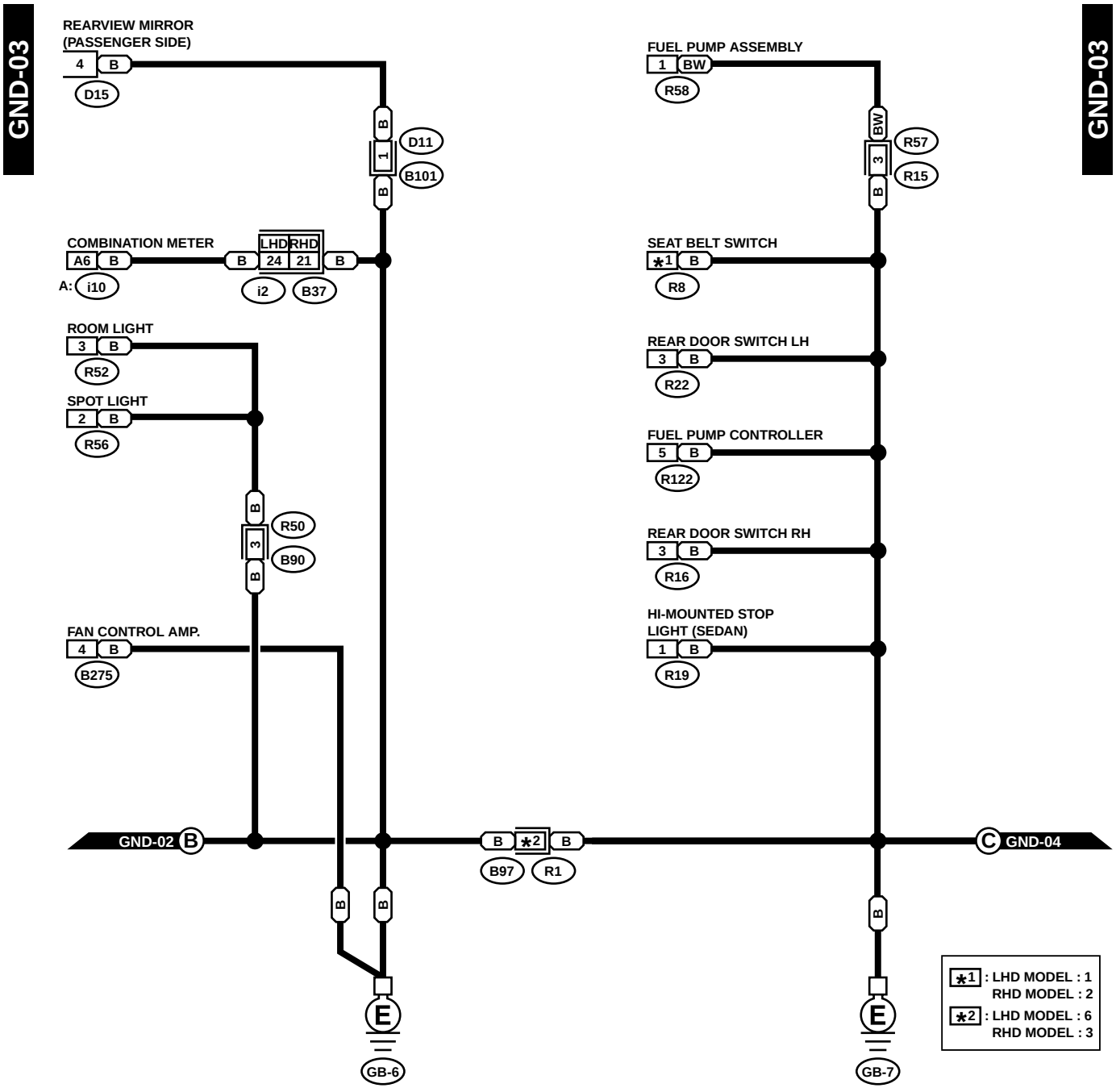
GG04-20A

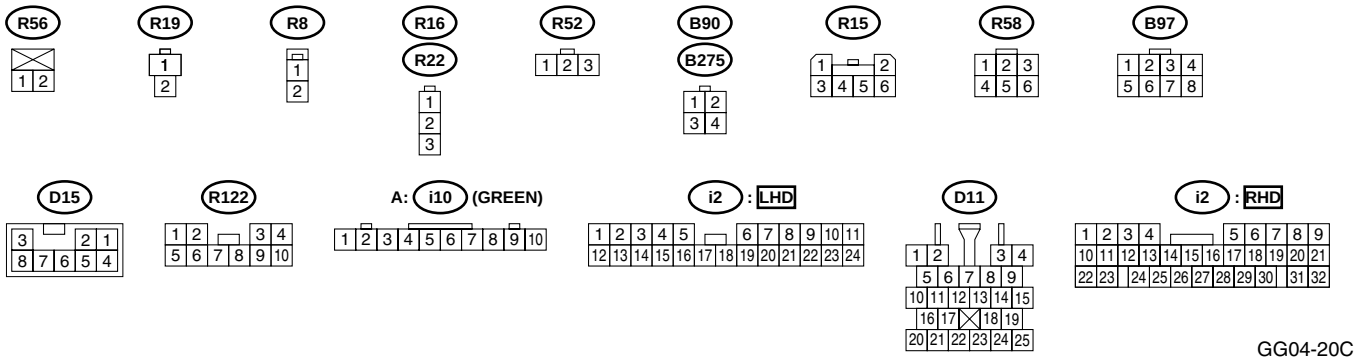
GROUND DISTRIBUTION





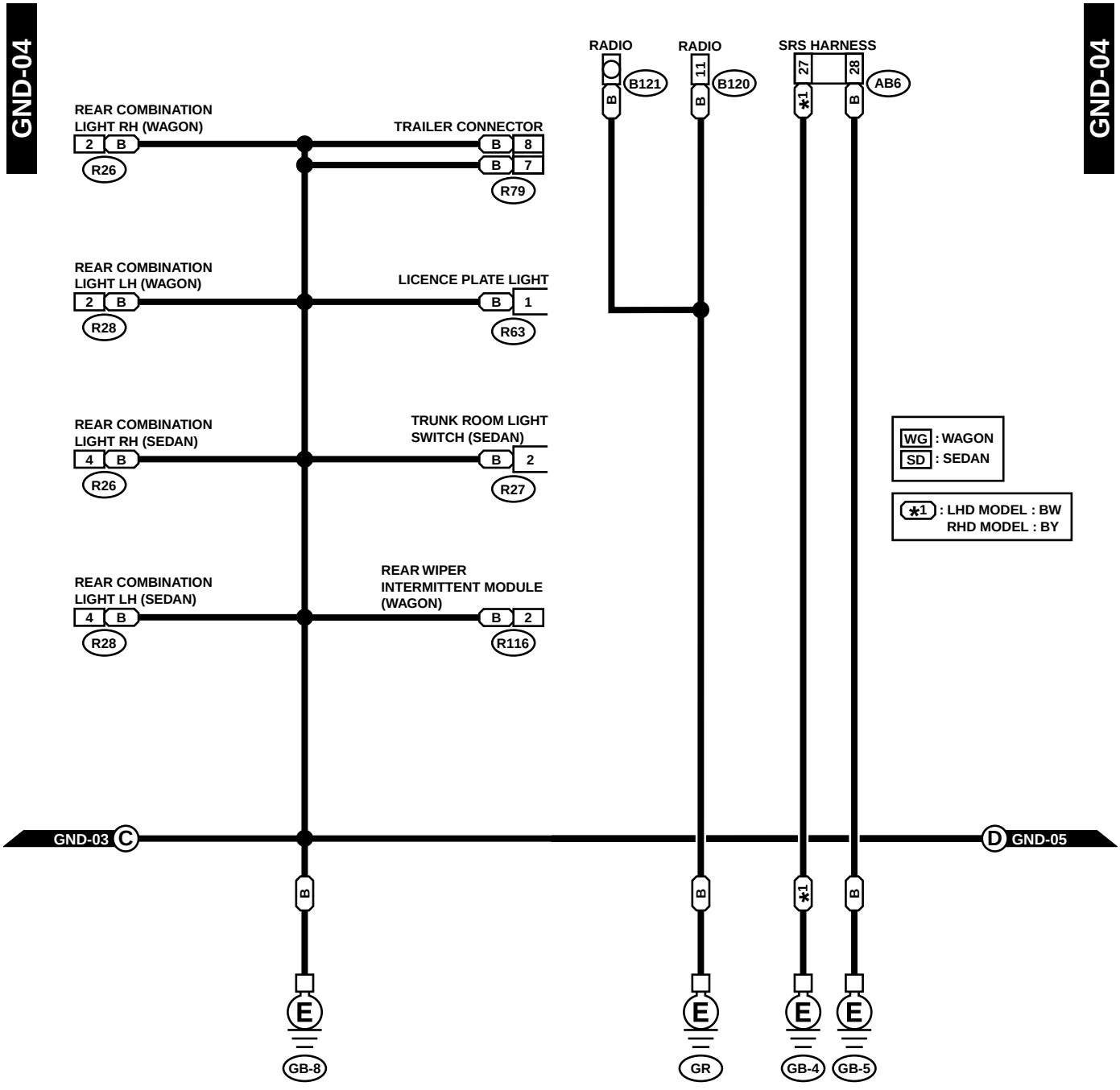
GG04-20B

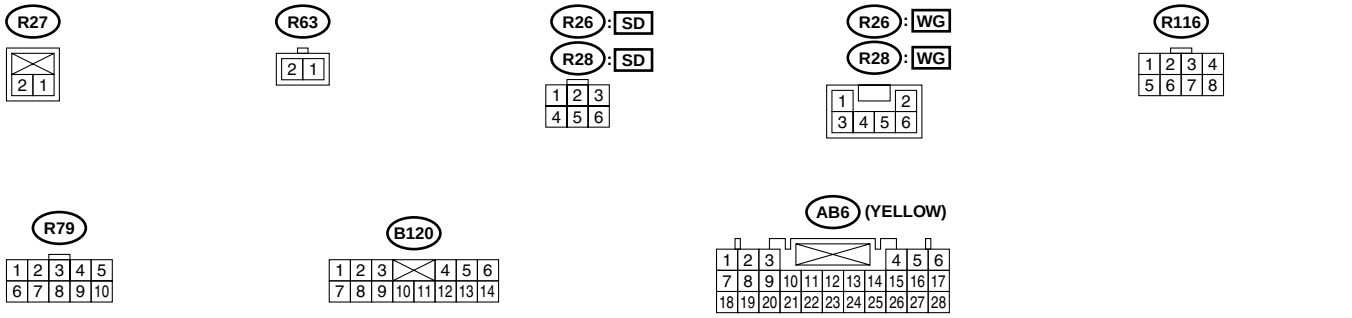

GND-03
GND-03
REARVIEW MIRROR (PASSENGER SIDE)
4 B
D15
B
1
D11
B101
B
COMBINATION METER
A6 B
A: i10
B LHD 24 RHD 21 B
i2
B37
ROOM LIGHT
3 B
R52
SPOT LIGHT
2 B
R56
B
3
R50
B90
B
FAN CONTROL AMP.
4 B
B275
FUEL PUMP ASSEMBLY
1 BW
R58
BW
3
R57
R15
B
SEAT BELT SWITCH
*1 B
R8
REAR DOOR SWITCH LH
3 B
R22
FUEL PUMP CONTROLLER
5 B
R122
REAR DOOR SWITCH RH
3 B
R16
HI-MOUNTED STOP LIGHT (SEDAN)
1 B
R19
GND-02 B
B *2 B
B97 R1
C GND-04
B
B
B
E
GB-6
E
GB-7
*1 : LHD MODEL : 1
RHD MODEL : 2
*2 : LHD MODEL : 6
RHD MODEL : 3


R56
1 2
R19
1
2
R8
1
2
R16
R22
1
2
3
R52
1 2 3
B90
B275
1 2
3 4
R15
1 2
3 4 5 6
R58
1 2 3
4 5 6
B97
1 2 3 4
5 6 7 8
D15
3 2 1
8 7 6 5 4
R122
1 2 3 4
5 6 7 8 9 10
A: i10 (GREEN)
1 2 3 4 5 6 7 8 9 10
i2 : 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
D11
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
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

GG04-20C

GROUND DISTRIBUTION





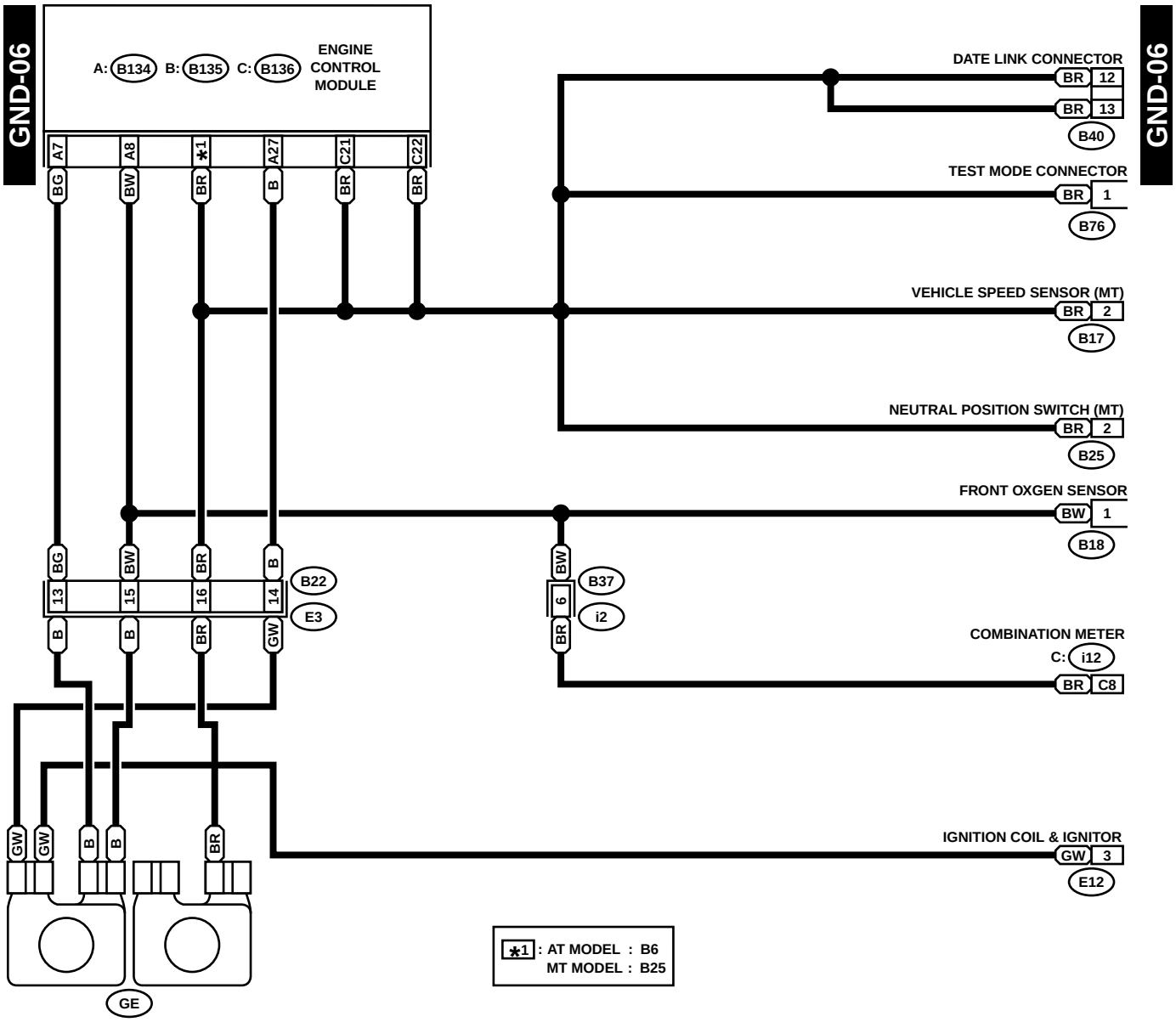
GG04-20D

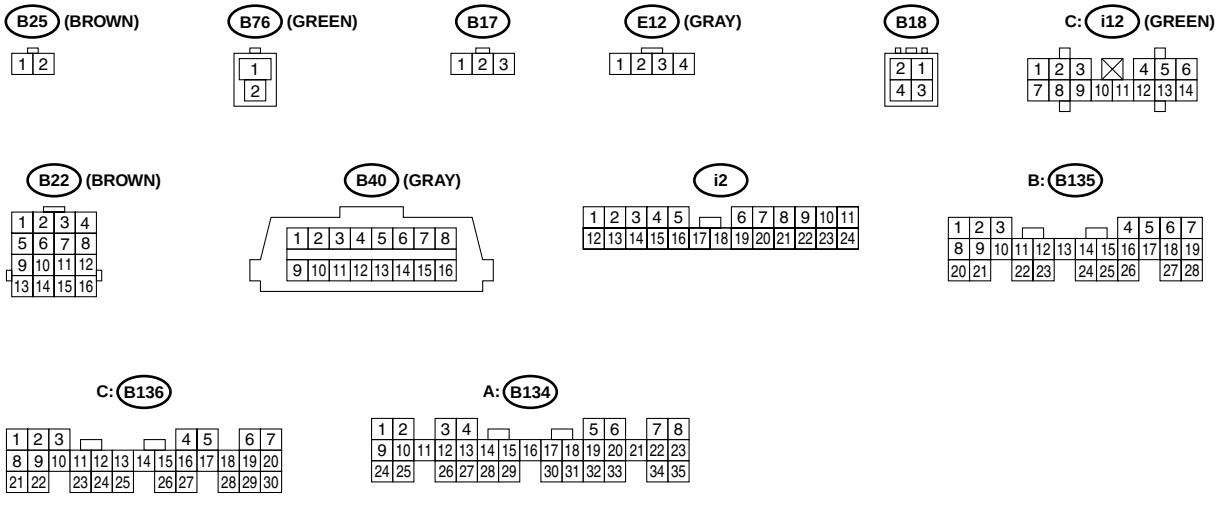
GND-05

GND-05

GG04-20E

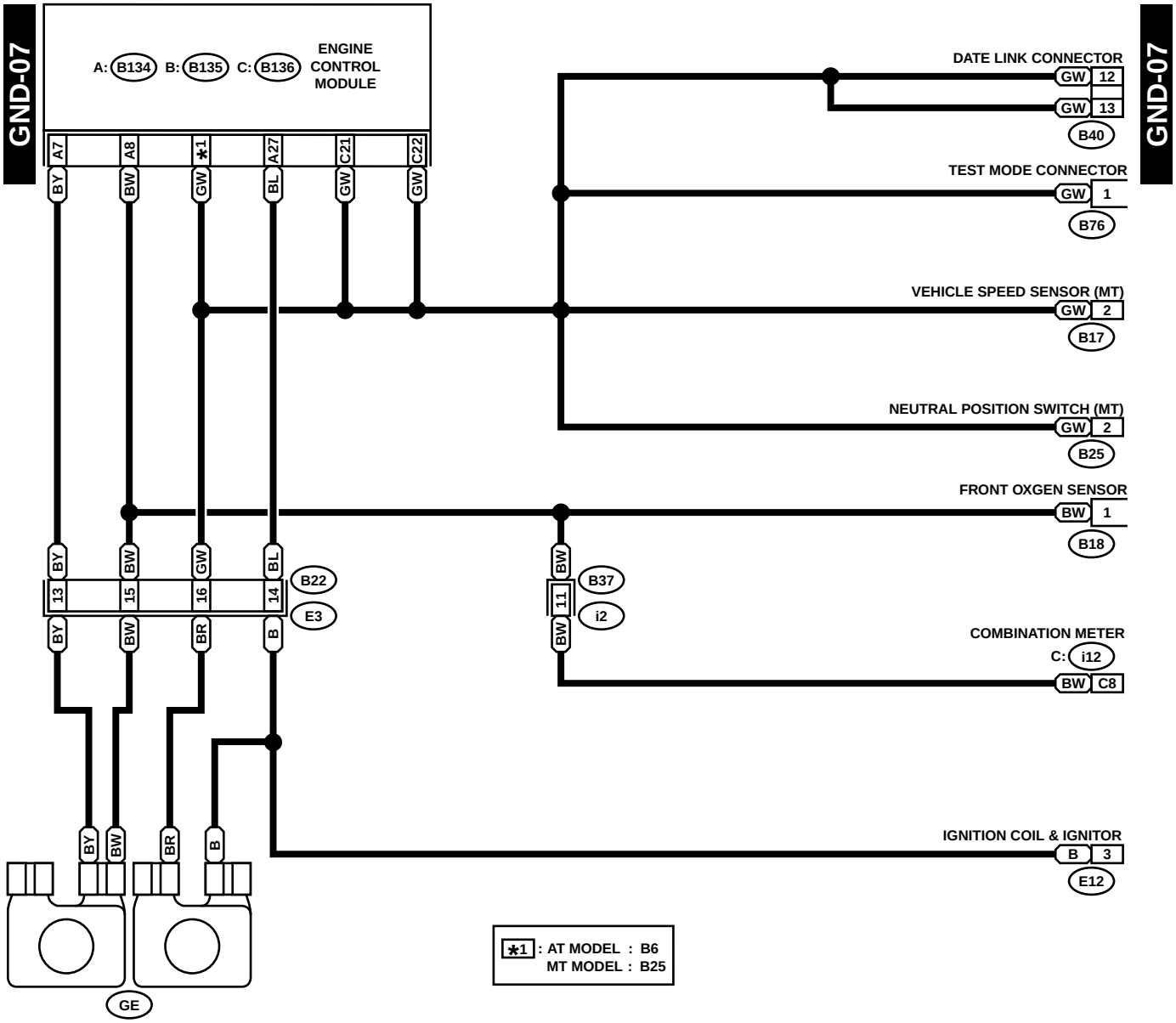
2. LHD SOHC W/O OBD ENGINE MODEL

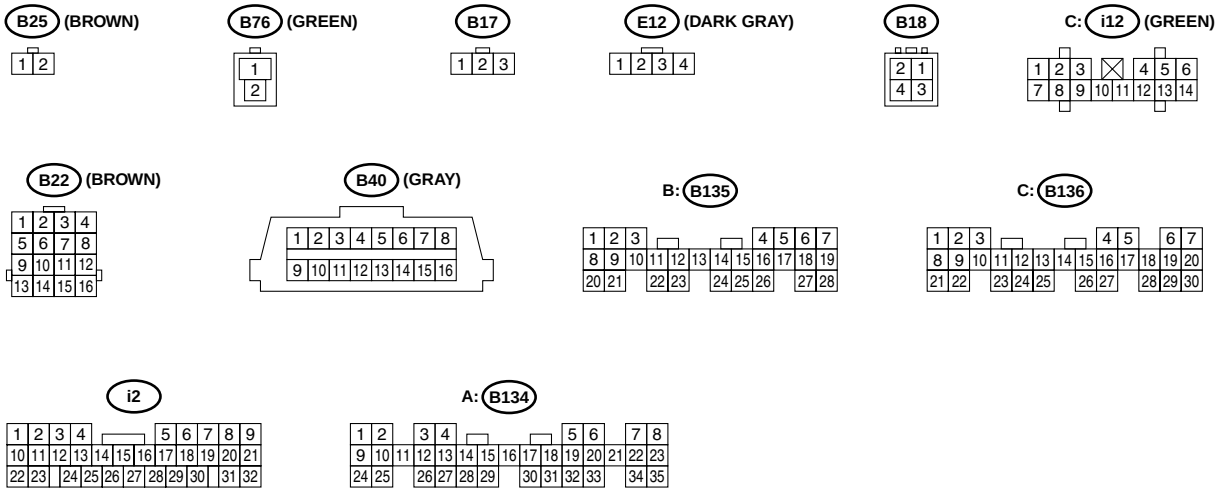




GG04-20F

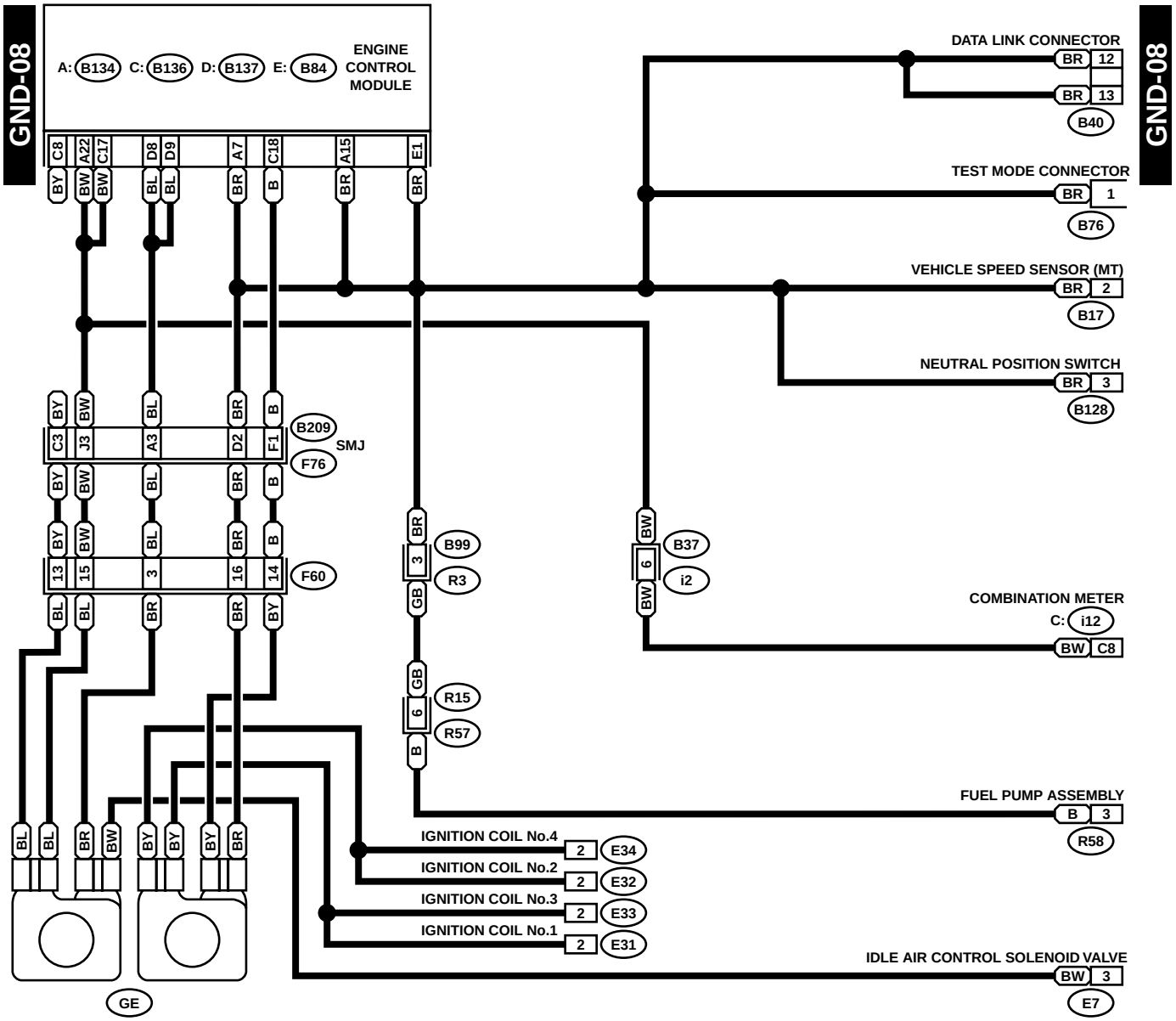
3. RHD SOHC W/O OBD ENGINE MODEL

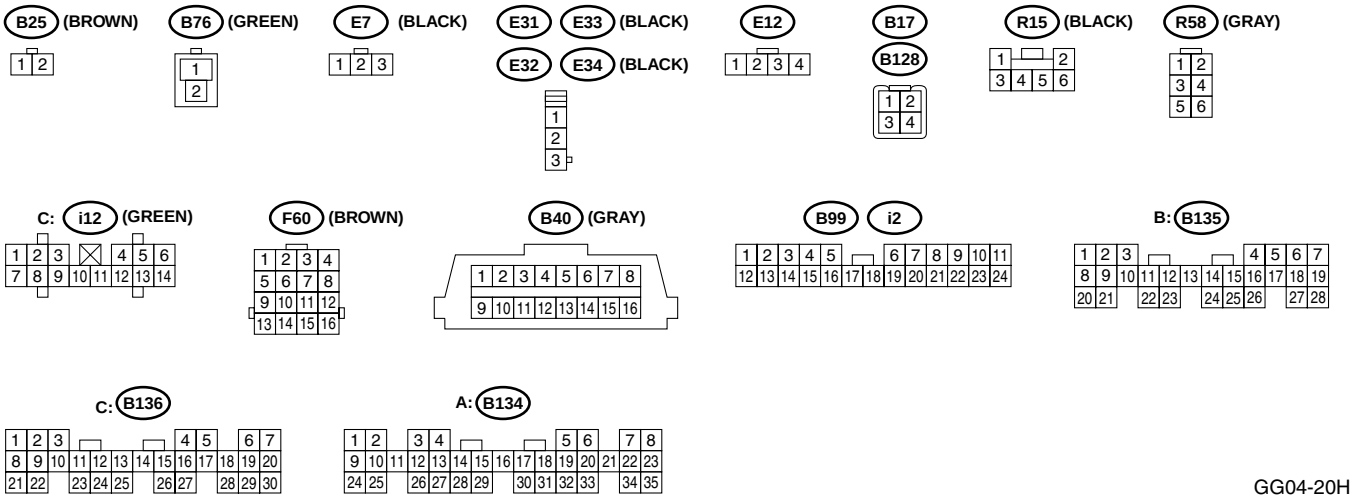




GG04-20G

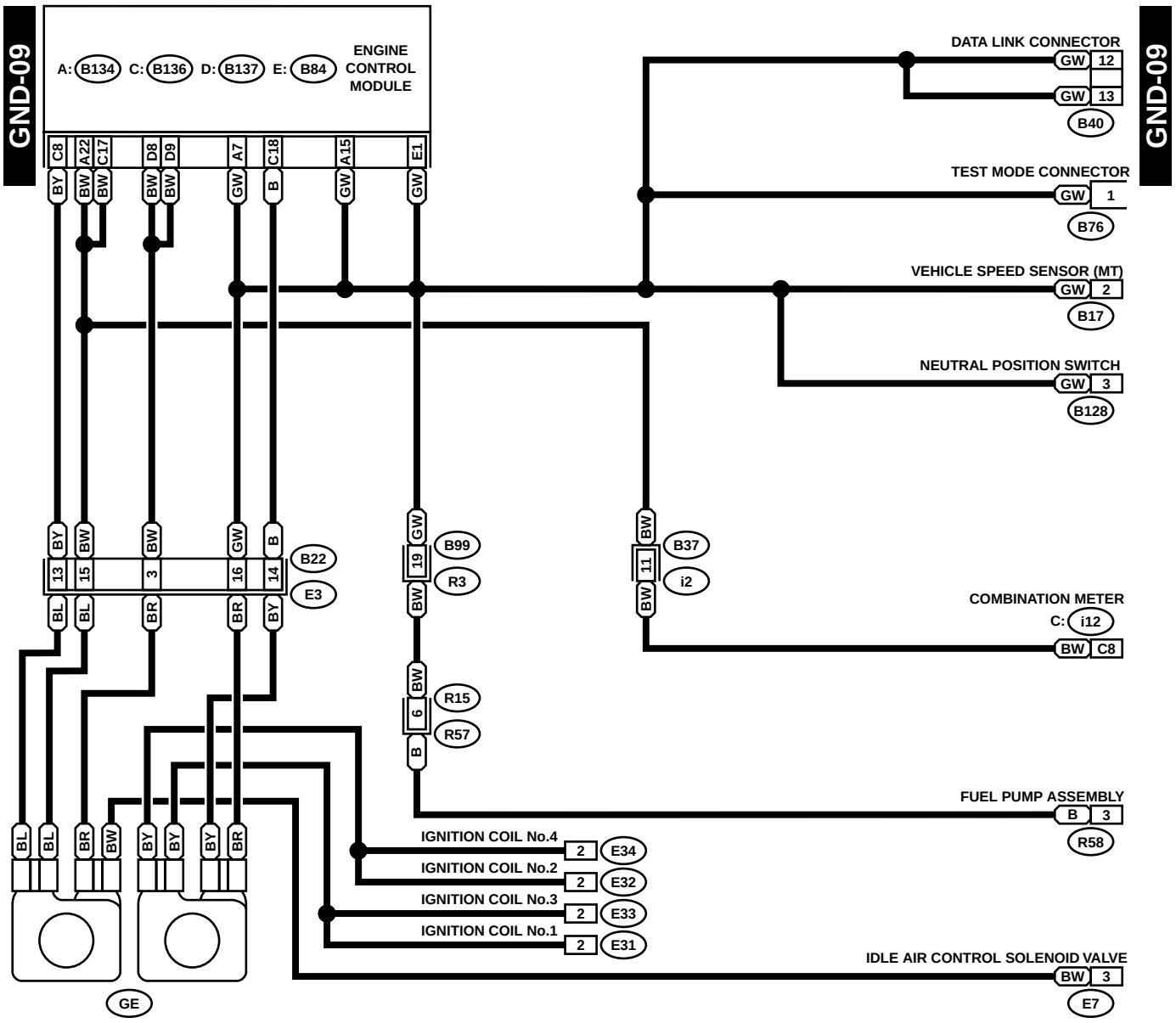
4. LHD TURBO ENGINE MODEL

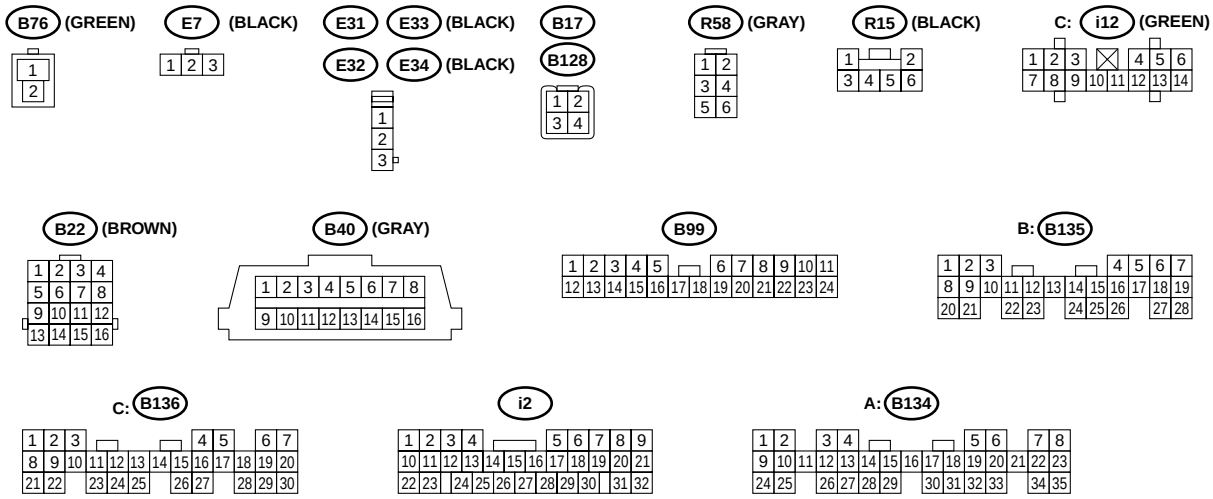




GG04-20H

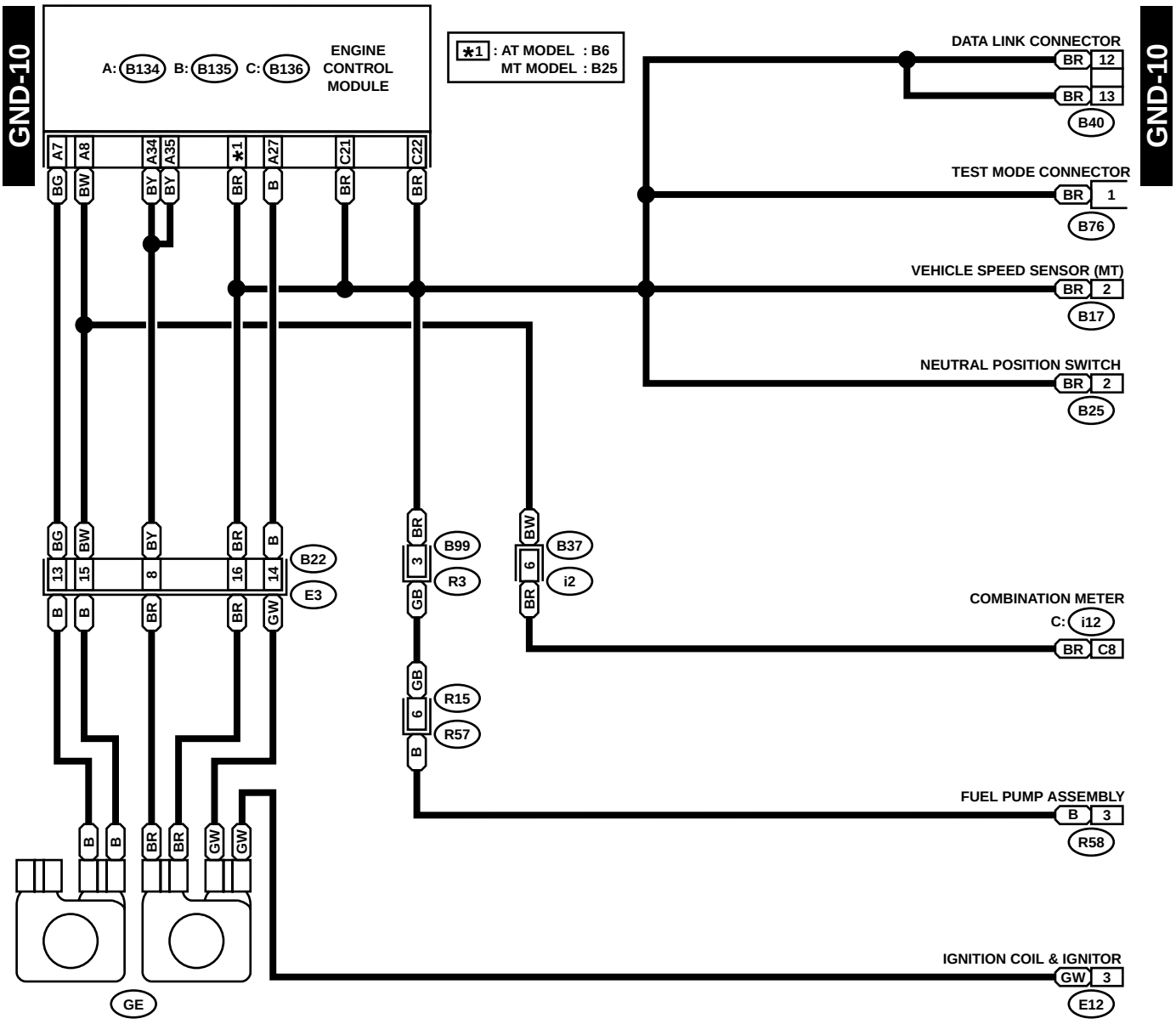
5. RHD TURBO ENGINE MODEL

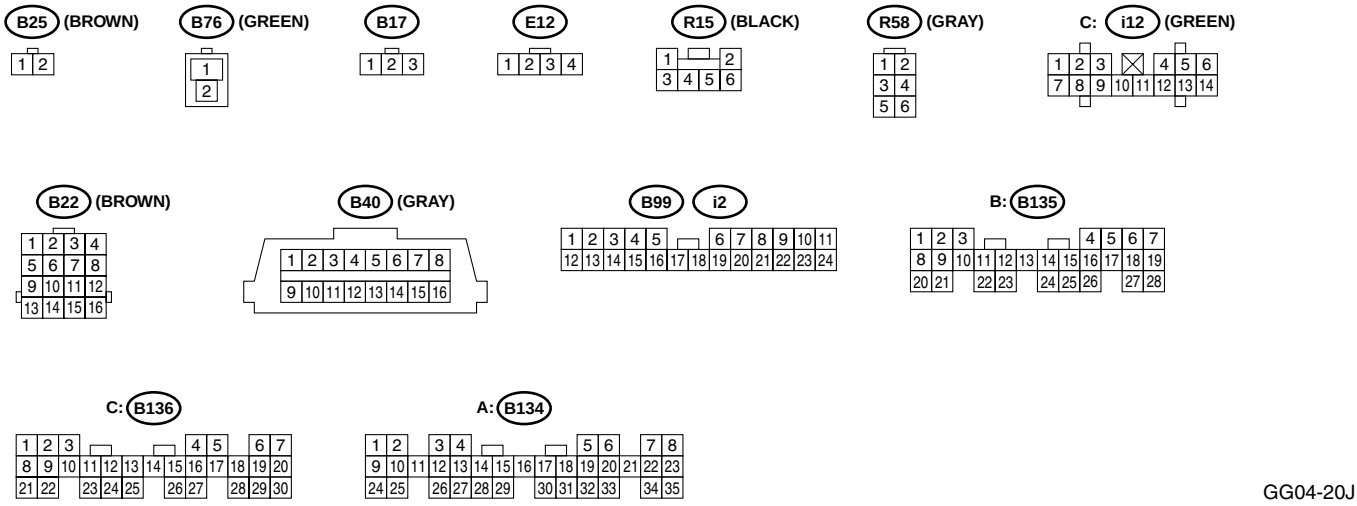




GG04-20I

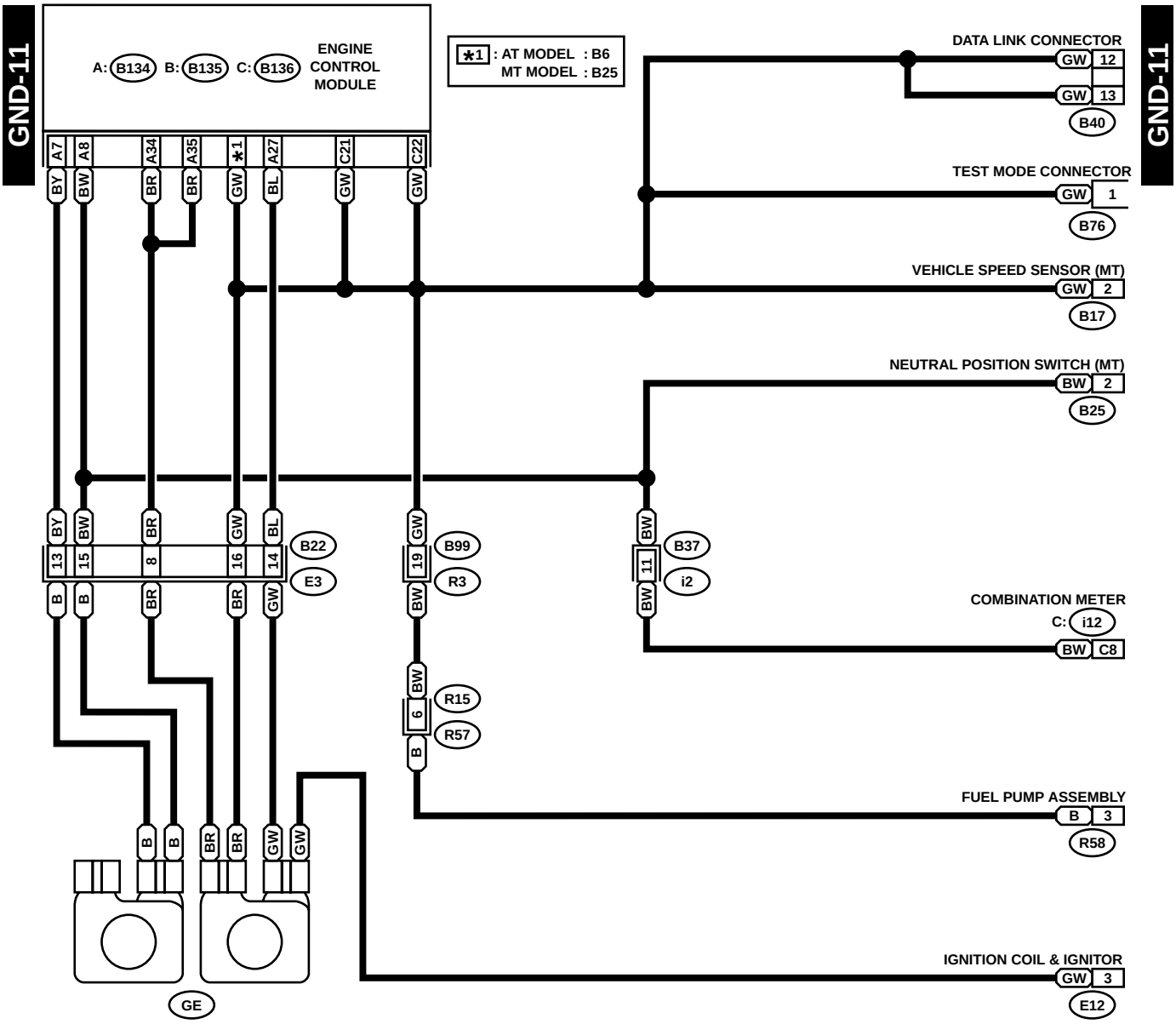
6. LHD SOHC MODEL

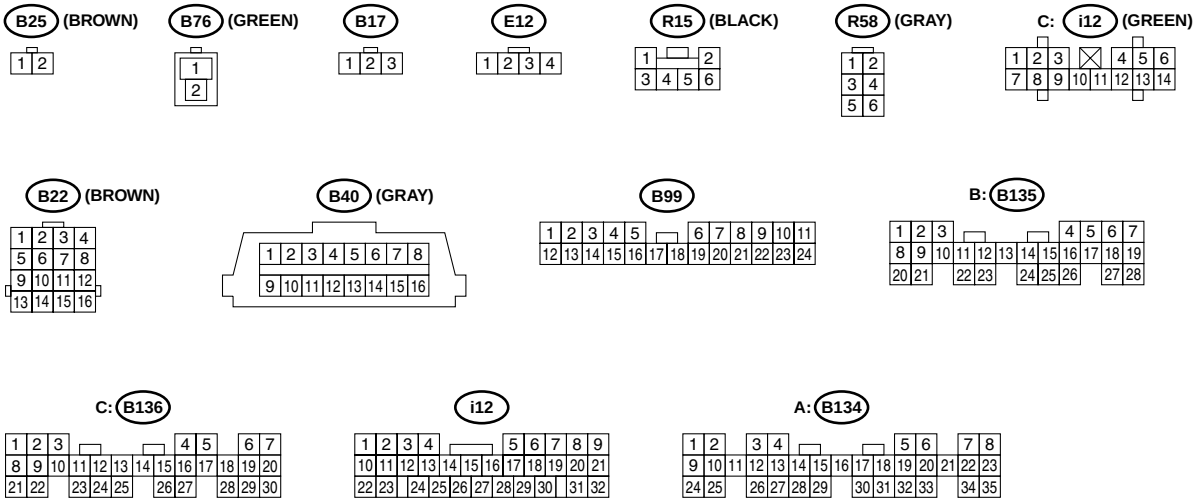




GG04-20J

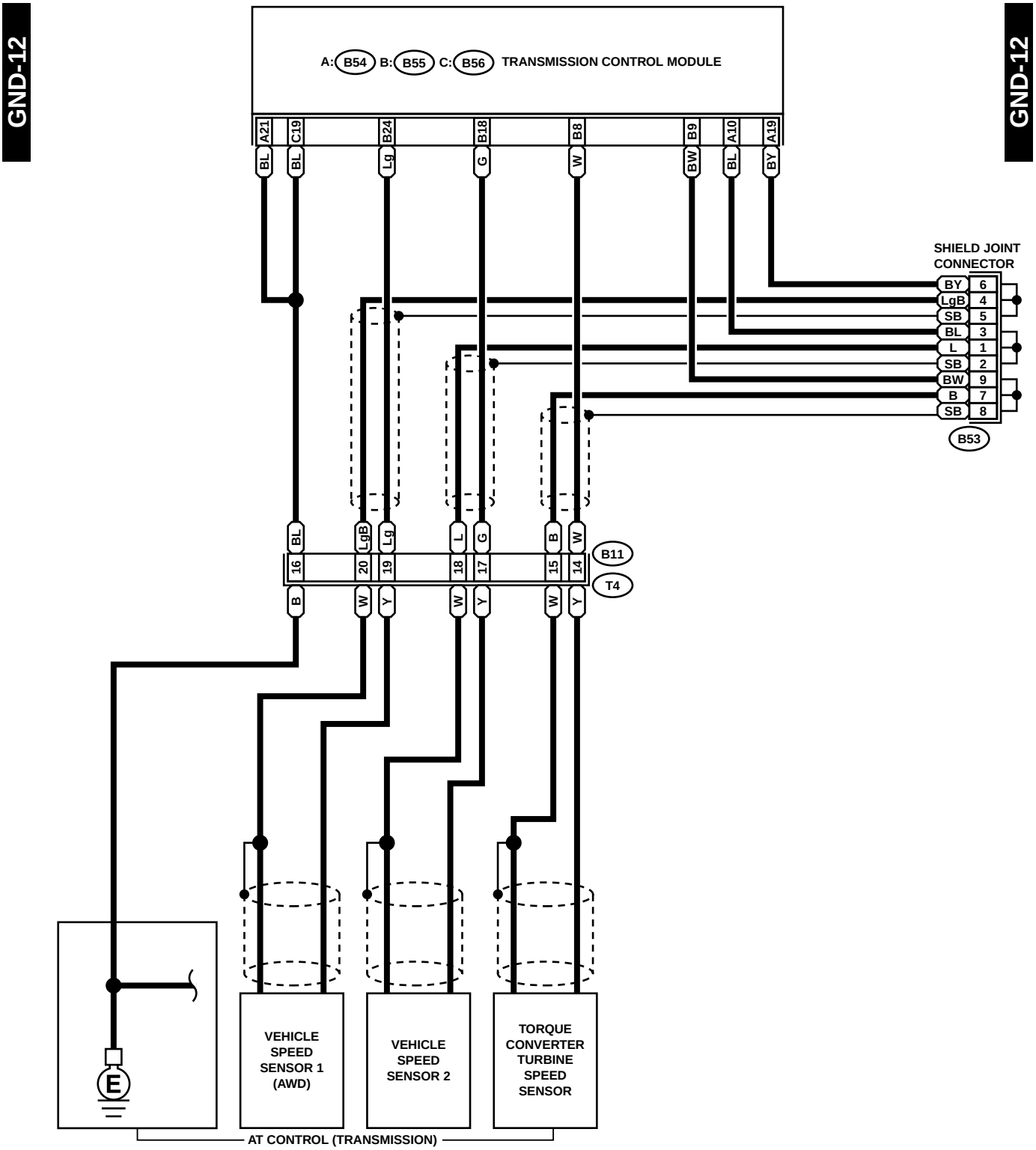
7. RHD SOHC MODEL

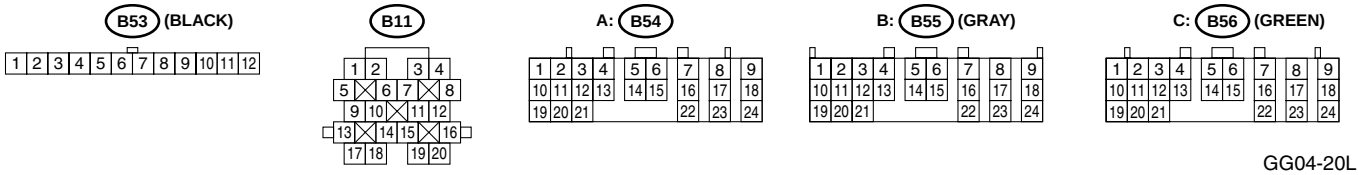




GG04-20K

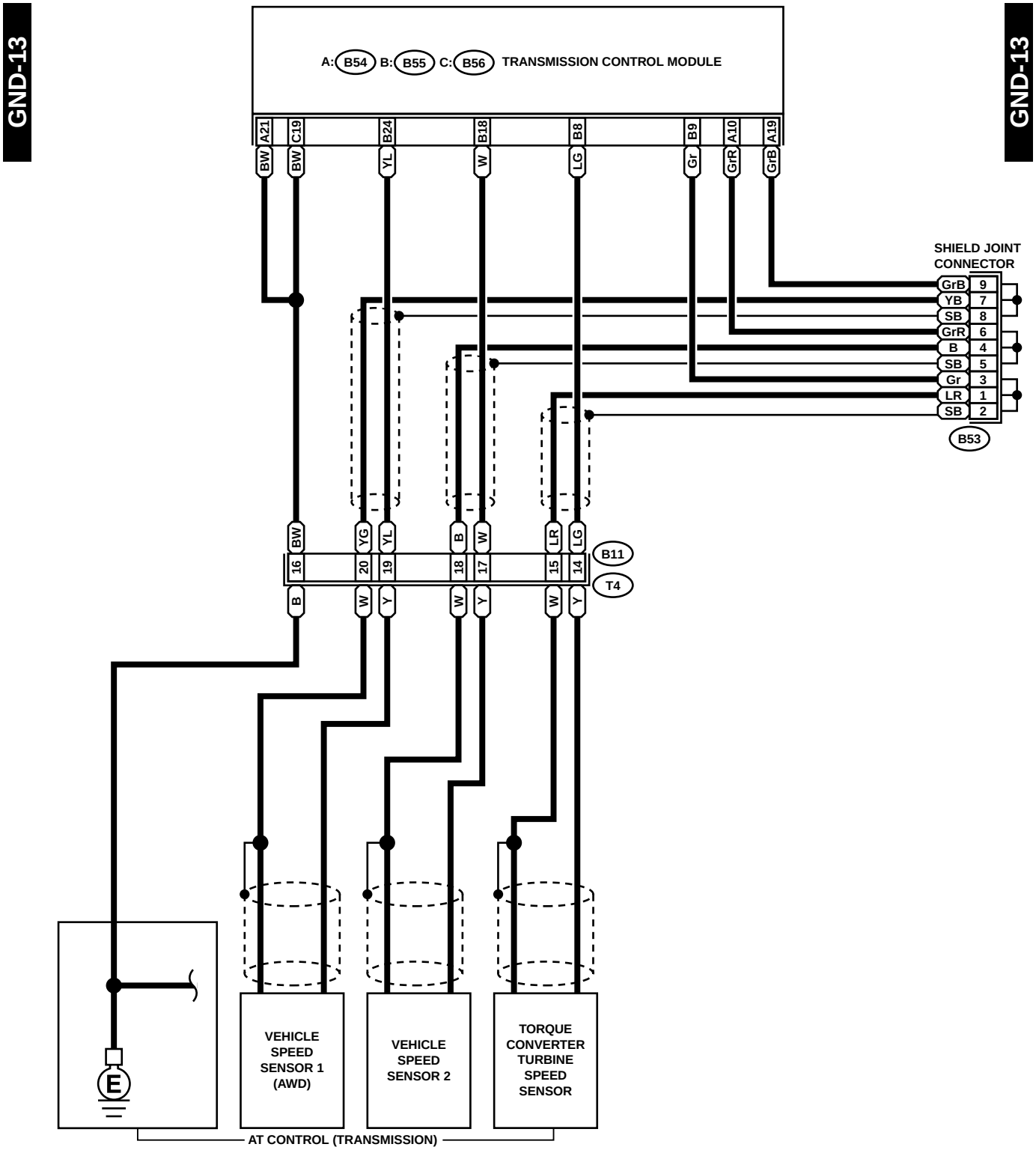
8. LHD MODEL

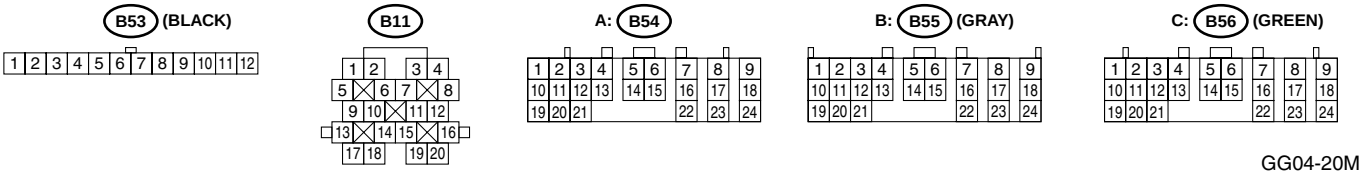




GG04-20L

9. RHD MODEL



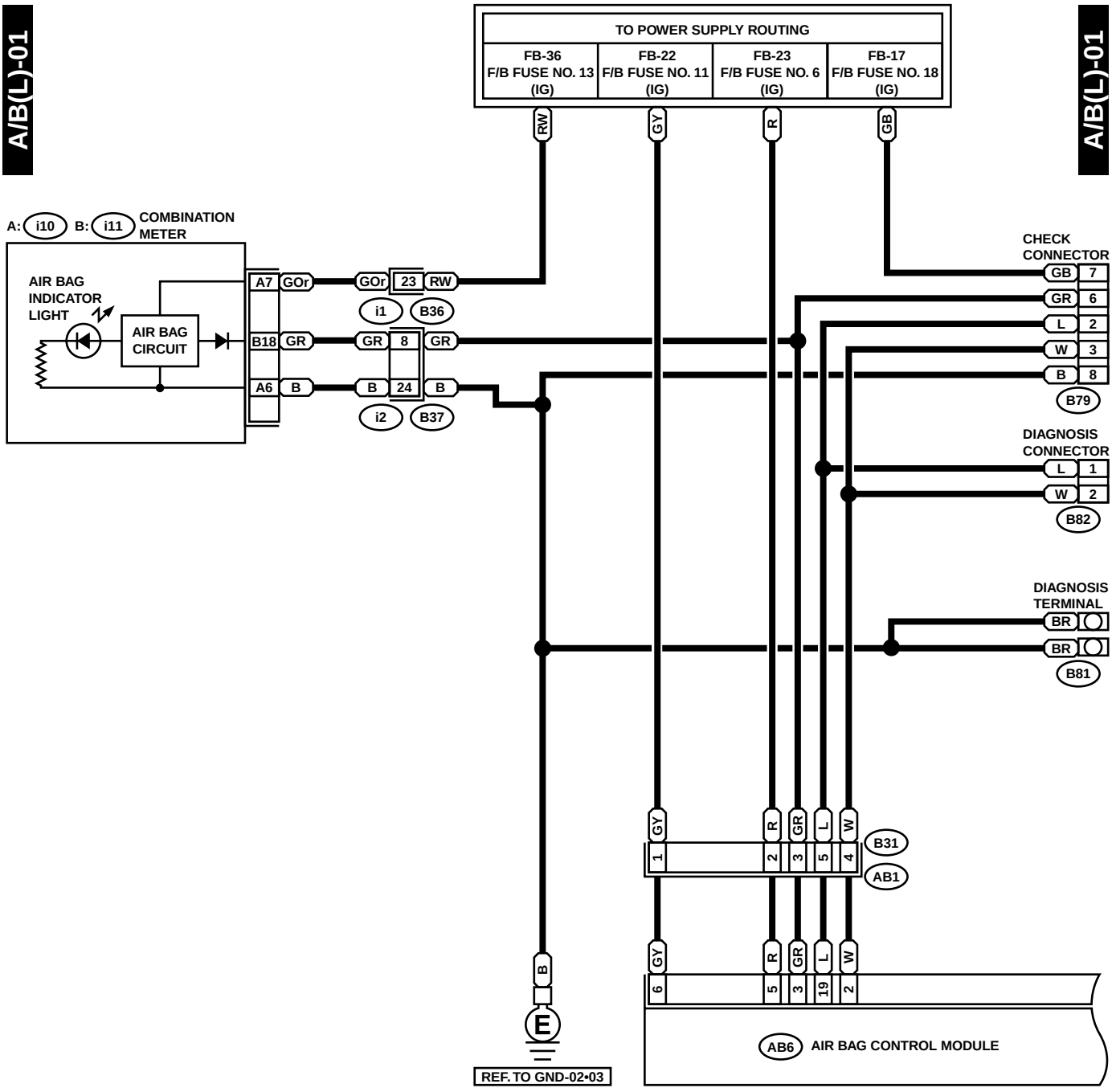


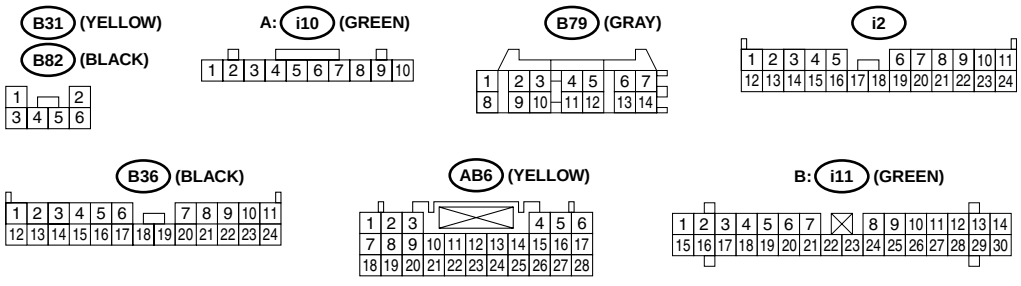
GG04-20M

6. Airbag System

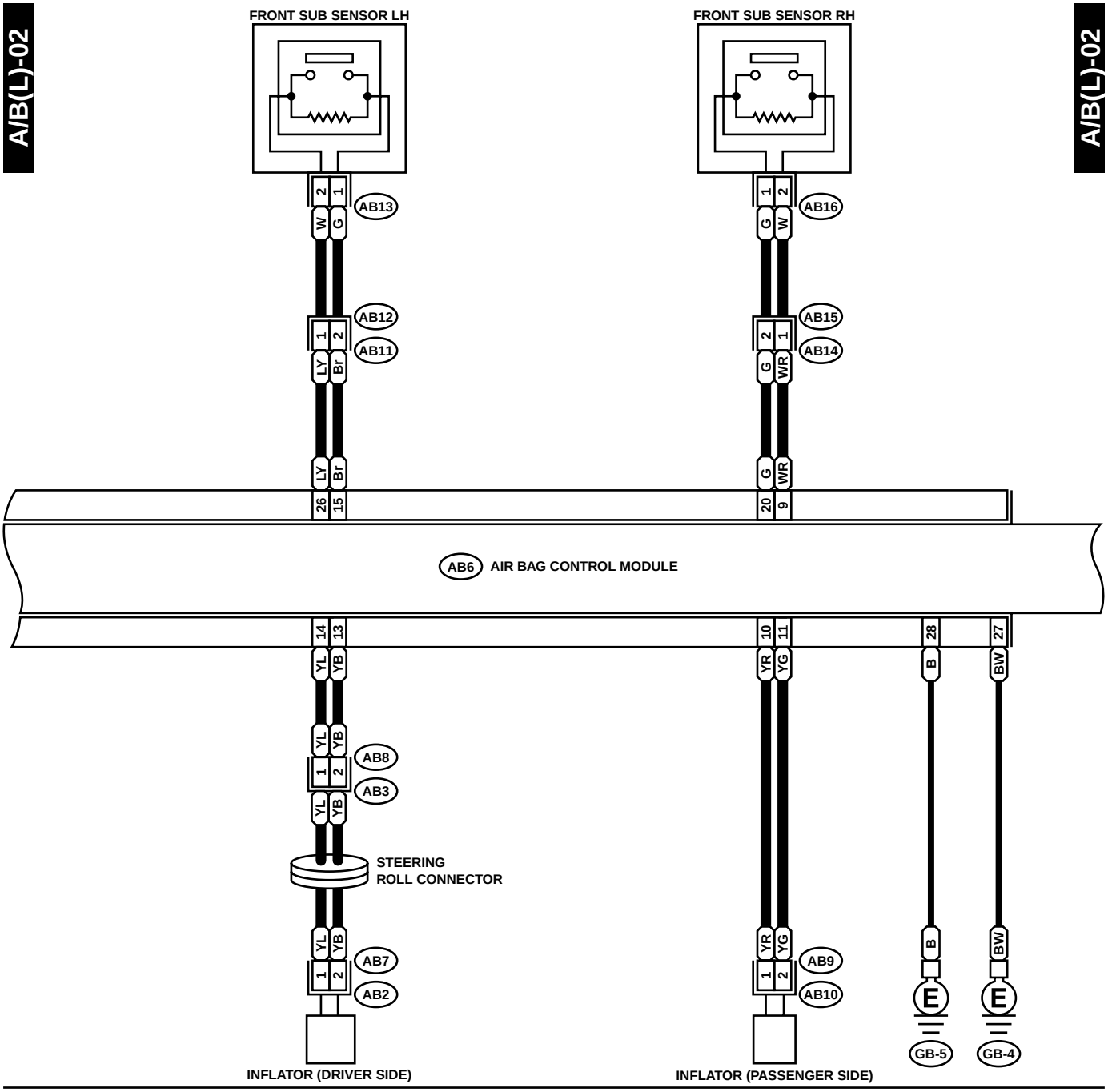
A: SCHEMATIC

1. LHD MODEL



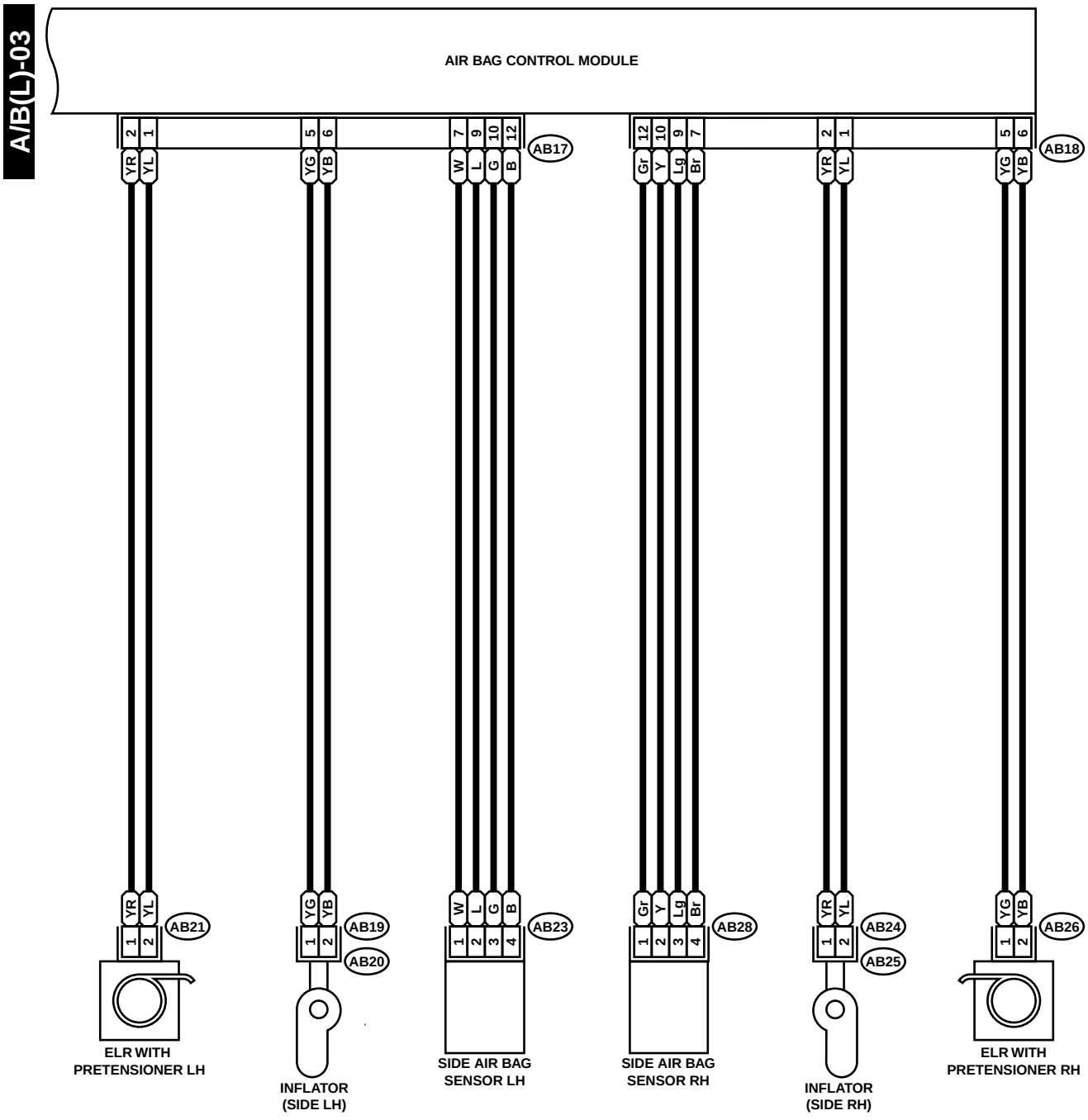


GL86-20A



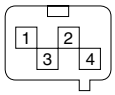
AB7 (YELLOW)
AB8 (YELLOW)
AB9 (YELLOW)
AB11 (YELLOW)
AB14 (YELLOW)
AB13 (YELLOW)
AB16 (YELLOW)
AB6 (YELLOW)

GL86-20B

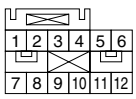


(YELLOW) AB19 AB24 (YELLOW)
(YELLOW) AB21 AB26 (YELLOW)

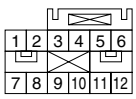
AB23 (YELLOW)
AB28 (YELLOW)



AB17 (YELLOW)

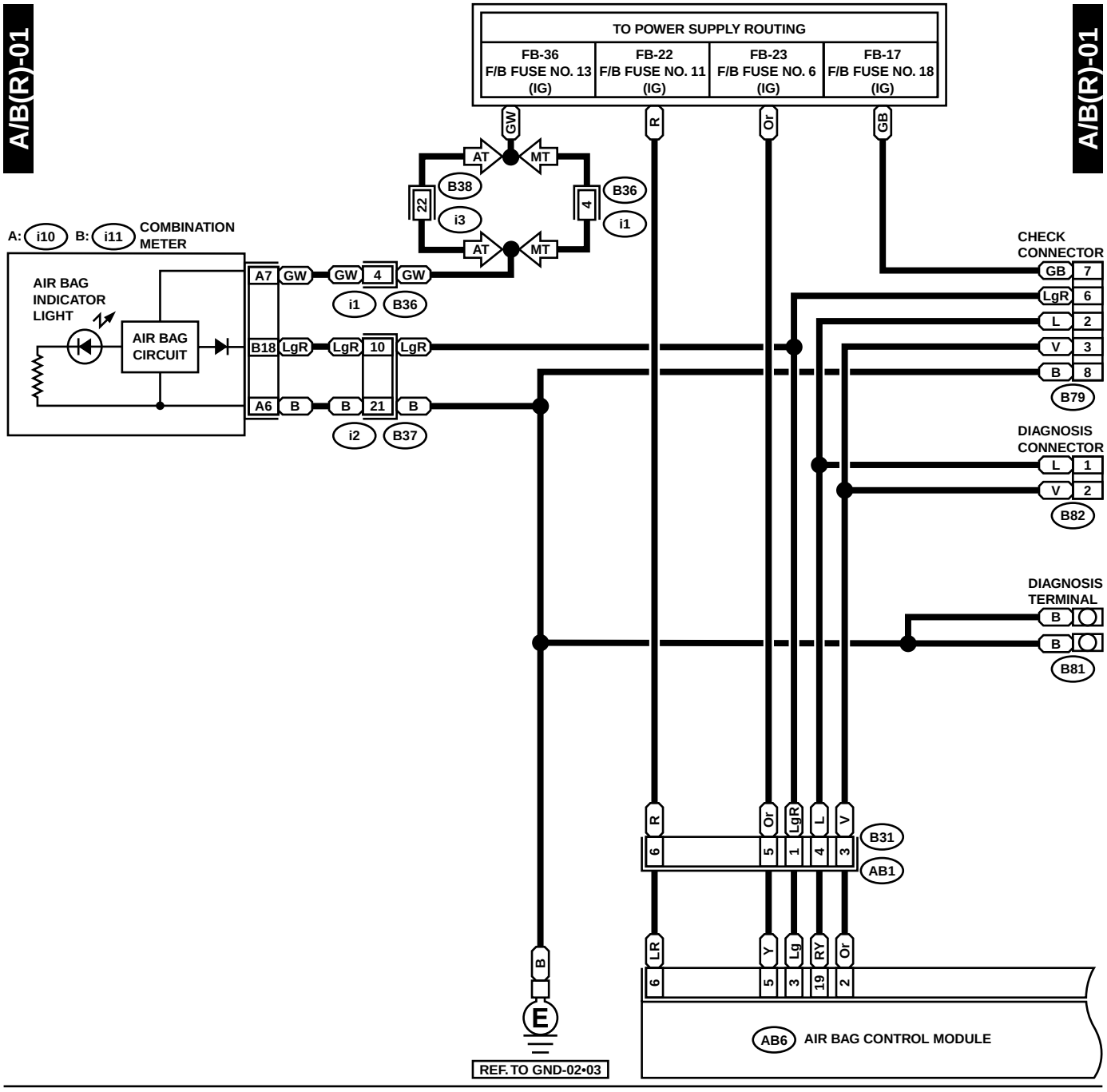


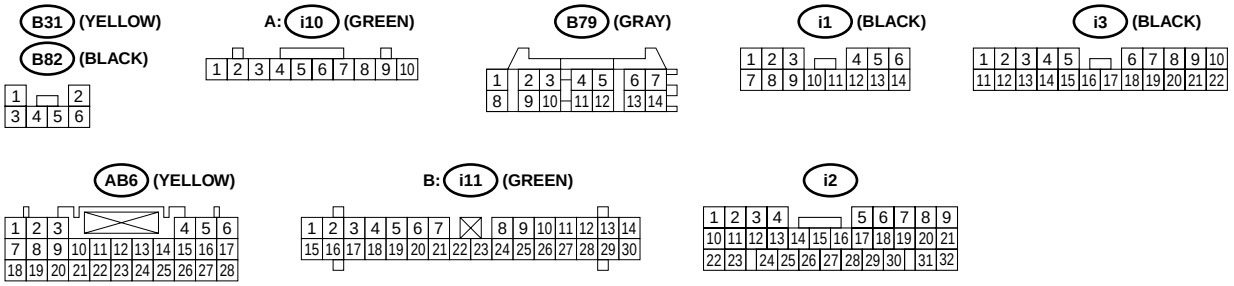
AB18 (YELLOW)



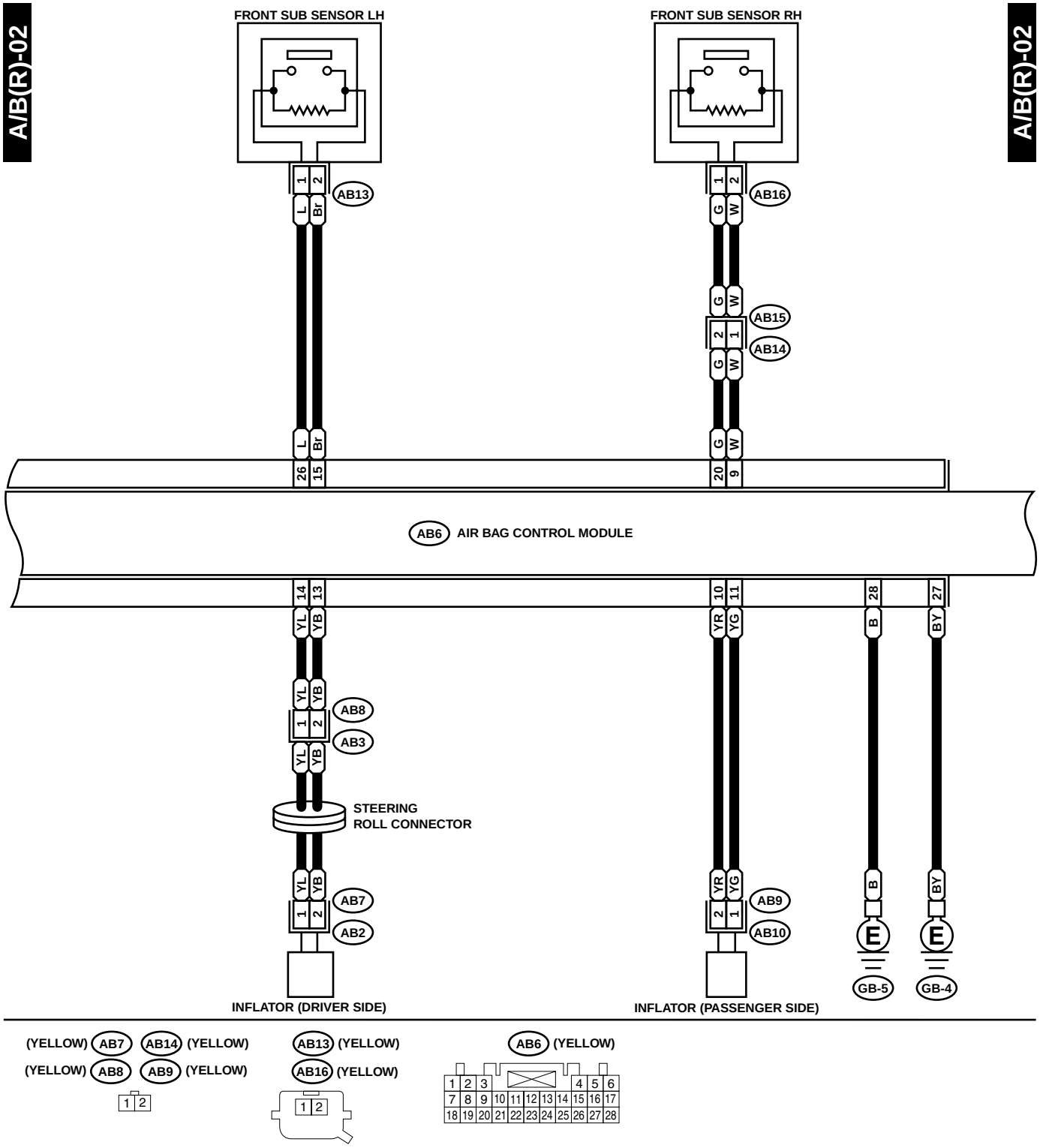
GL86-20C

2. RH MODEL

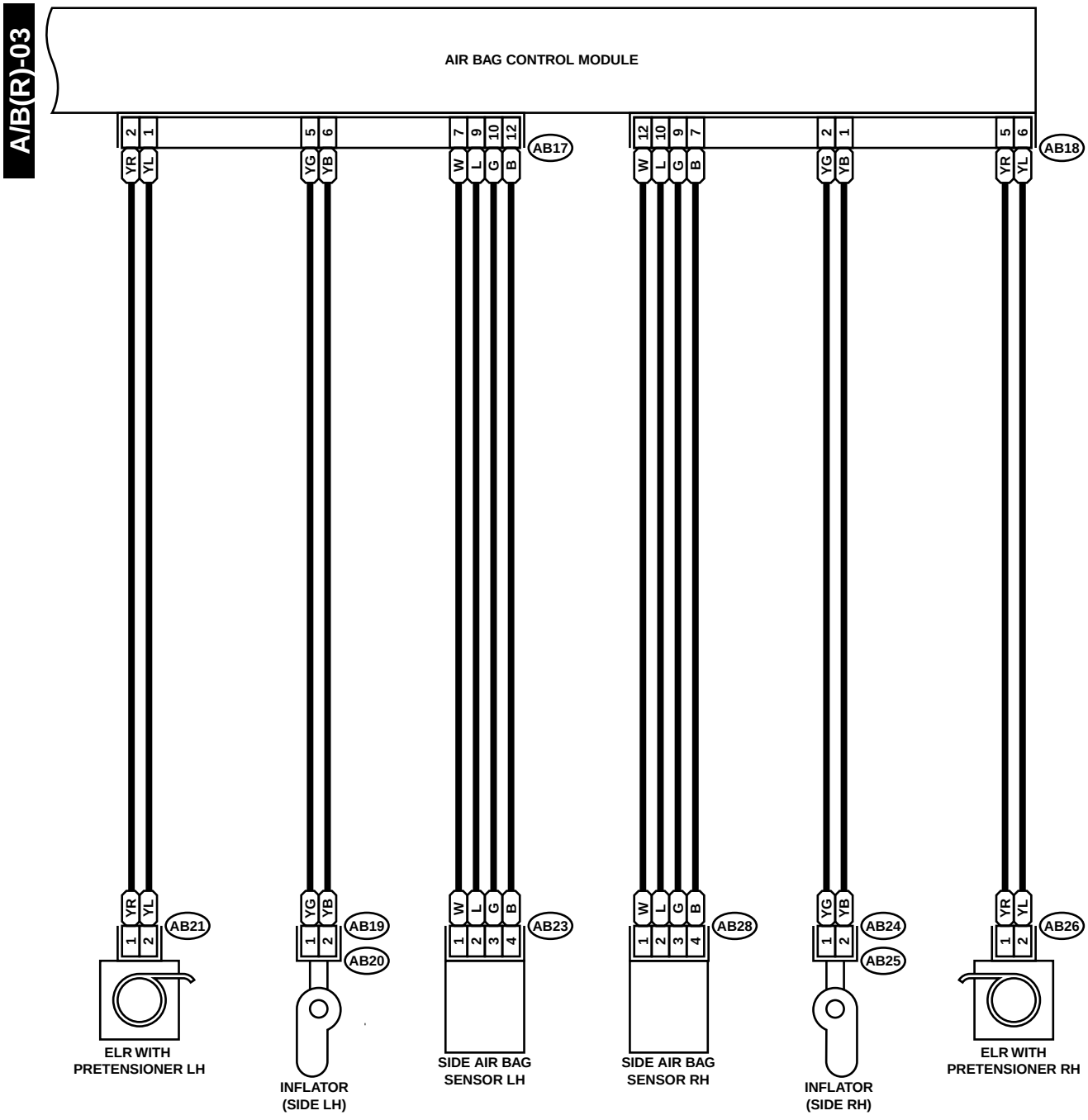


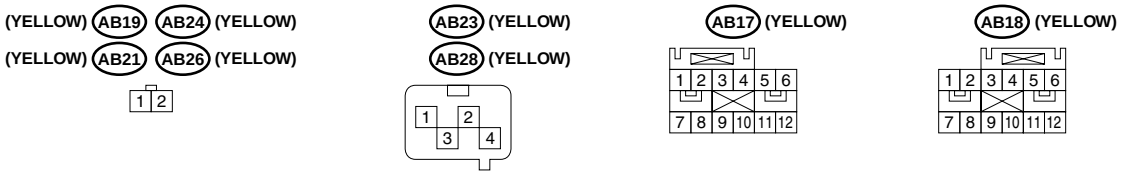


GR86-20A


A/B(R)-02
A/B(R)-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
AB13
AB16
AB15
AB14
AB6 AIR BAG CONTROL MODULE
AB8
AB3
STEERING
ROLL CONNECTOR
AB7
AB2
AB9
AB10
GB-5
GB-4
INFLATOR (DRIVER SIDE)
INFLATOR (PASSENGER SIDE)
(YELLOW) AB7 AB14 (YELLOW)
(YELLOW) AB8 AB9 (YELLOW)
AB13 (YELLOW)
AB16 (YELLOW)
AB6 (YELLOW)

GR86-20B


A/B(R)-03
AIR BAG CONTROL MODULE
A/B(R)-03
2 1 5 6 7 9 10 12
AB17
12 10 9 7 2 1 5 6
AB18
YR YL YG YB W L G B
AB21
AB19
AB20
AB23
AB28
AB24
AB25
AB26
ELR WITH PRETENSIONER LH
INFLATOR (SIDE LH)
SIDE AIR BAG SENSOR LH
SIDE AIR BAG SENSOR RH
INFLATOR (SIDE RH)
ELR WITH PRETENSIONER RH

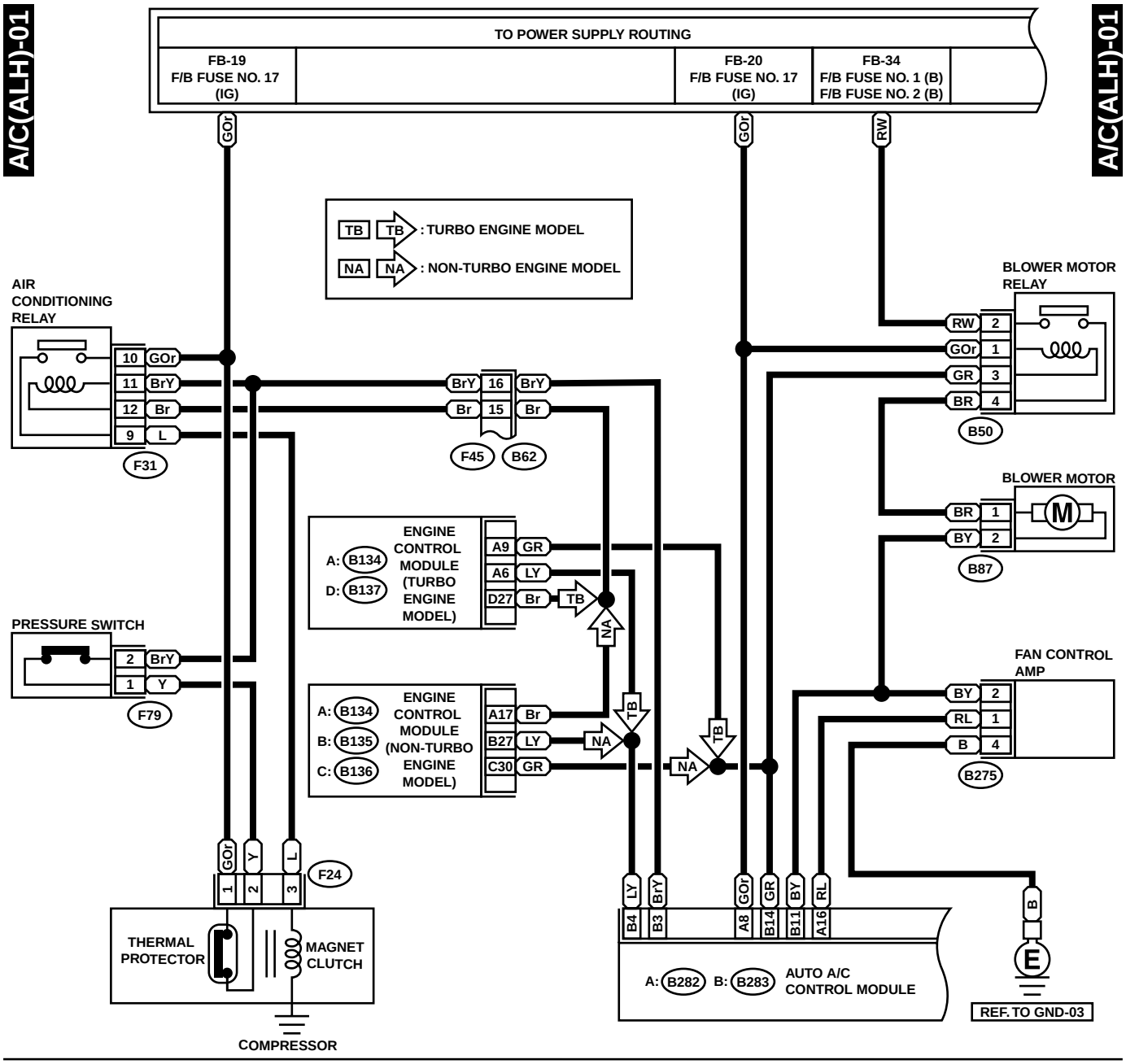

(YELLOW) AB19 AB24 (YELLOW)
(YELLOW) AB21 AB26 (YELLOW)
AB23 (YELLOW)
AB28 (YELLOW)
AB17 (YELLOW)
AB18 (YELLOW)

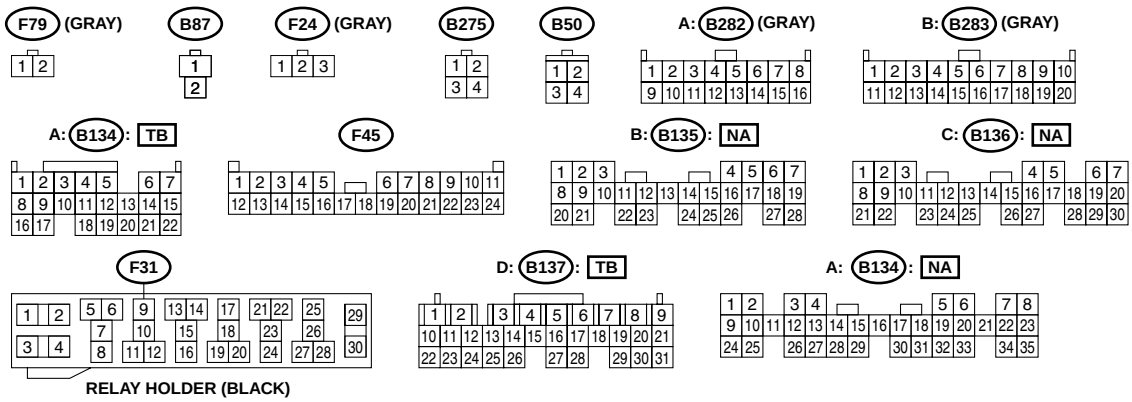
GR86-20C

7. Air Conditioning System

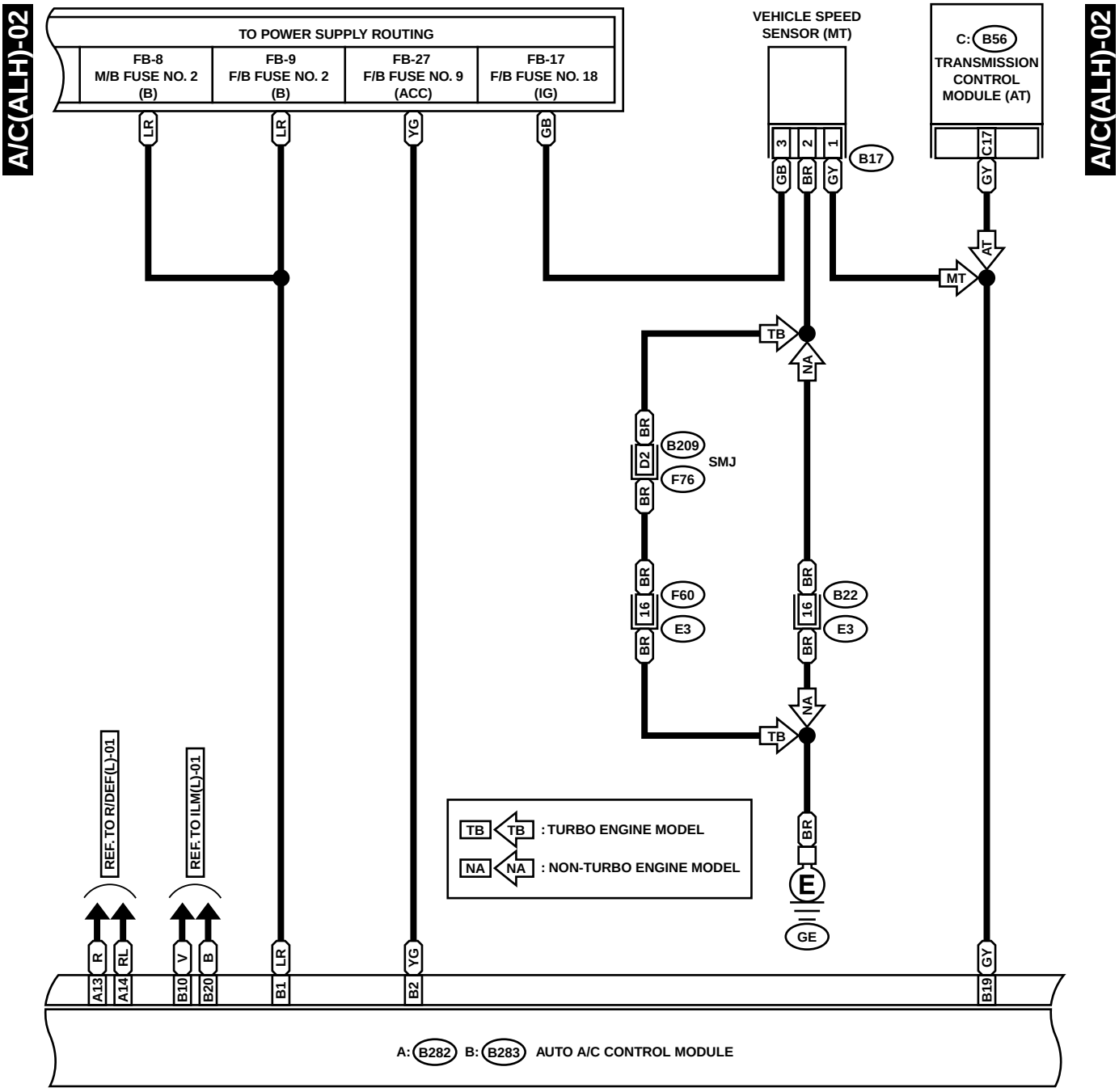
A: SCHEMATIC

1. AUTO A/C LHD MODEL





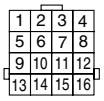
GL46-20A



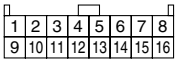
B17: NA

B17: TB

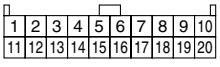
B22 (BROWN)
F60 (BROWN)



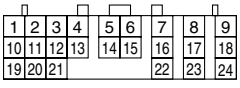
A: B282 (GRAY)

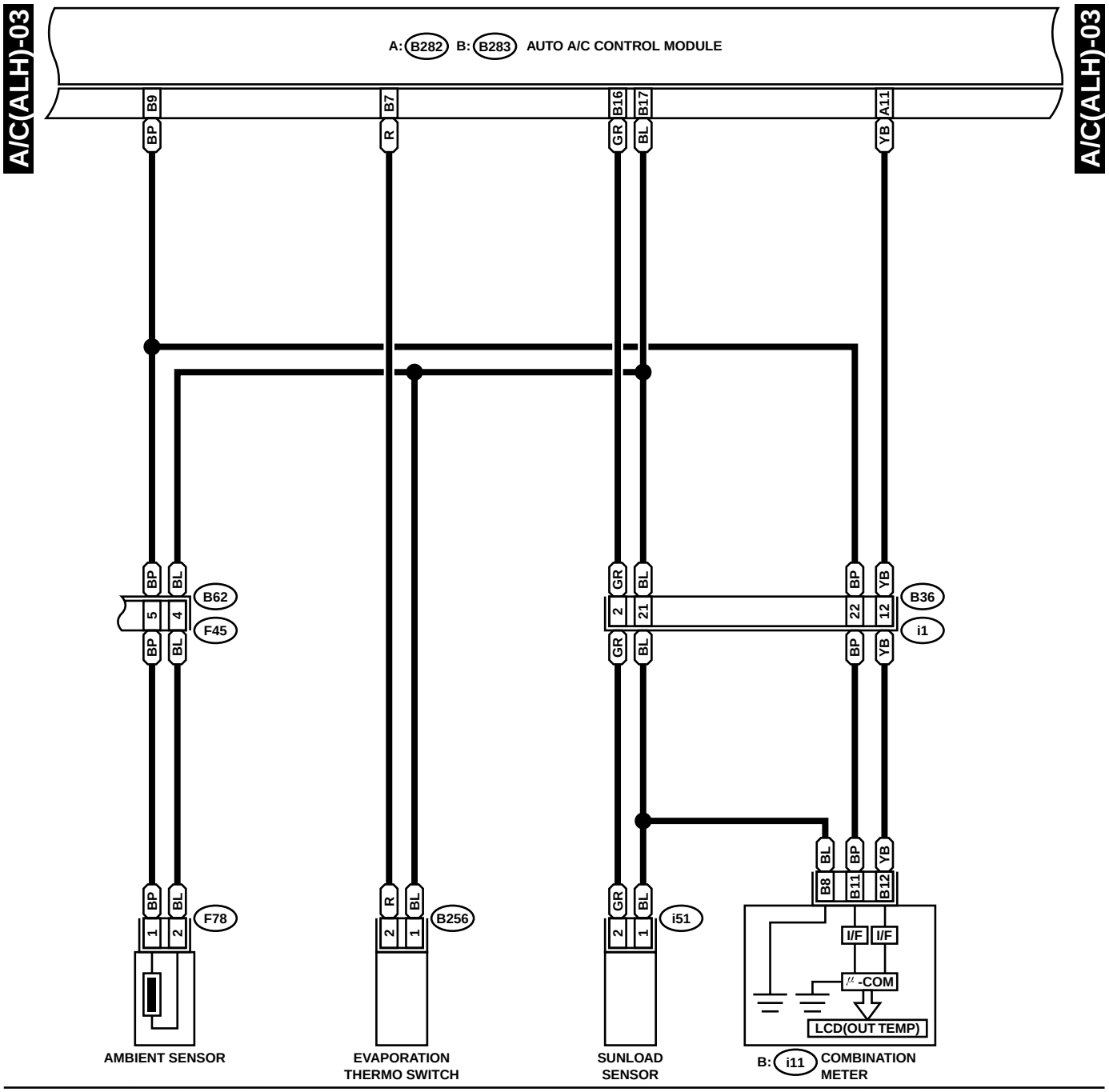


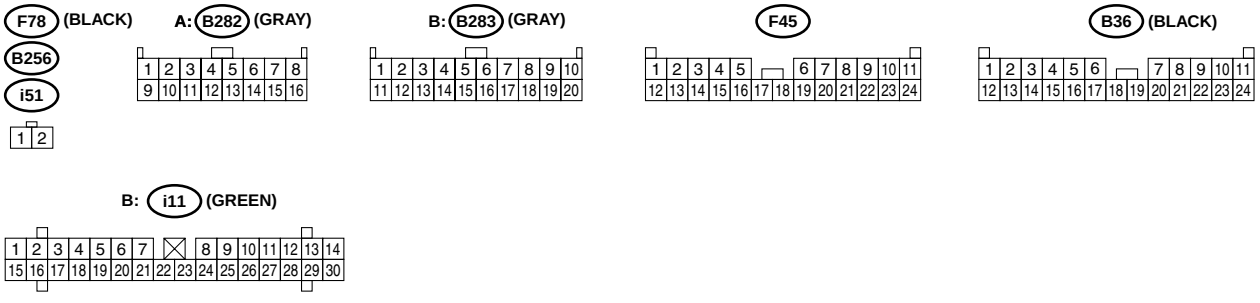
B: B283 (GRAY)



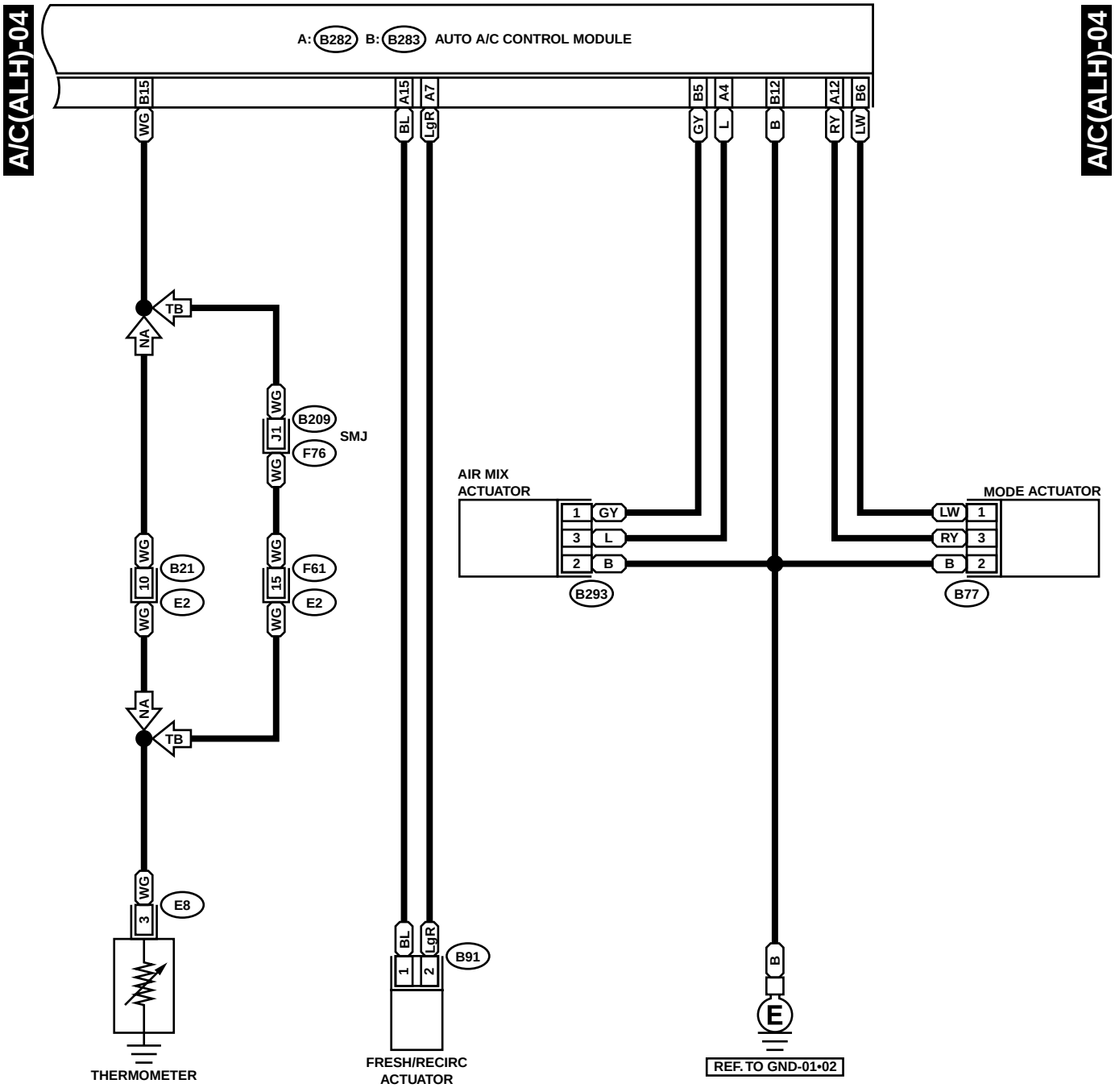
C: B56 (GREEN)

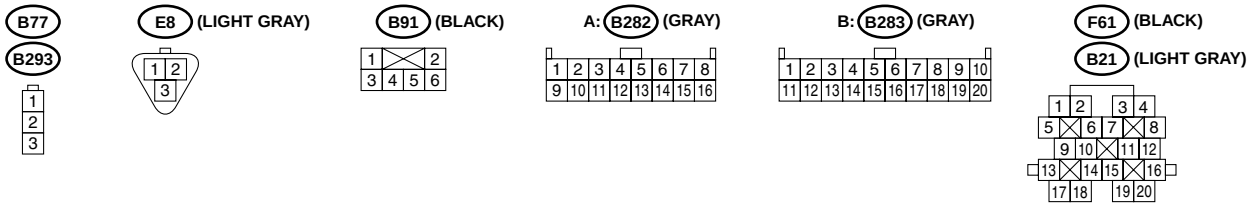



A/C(ALH)-03
A/C(ALH)-03
A: B282 B: B283 AUTO A/C CONTROL MODULE
B9
B7
B16
B17
A11
BP
R
GR
BL
YB
B62
F45
B36
i1
5
4
2
21
22
12
F78
B256
i51
B8
B11
B12
I/F
I/F
-COM
LCD(OUT TEMP)
AMBIENT SENSOR
EVAPORATION THERMO SWITCH
SUNLOAD SENSOR
B: i11 COMBINATION METER


F78 (BLACK)
B256
i51
A: B282 (GRAY)
B: B283 (GRAY)
F45
B36 (BLACK)
B: i11 (GREEN)

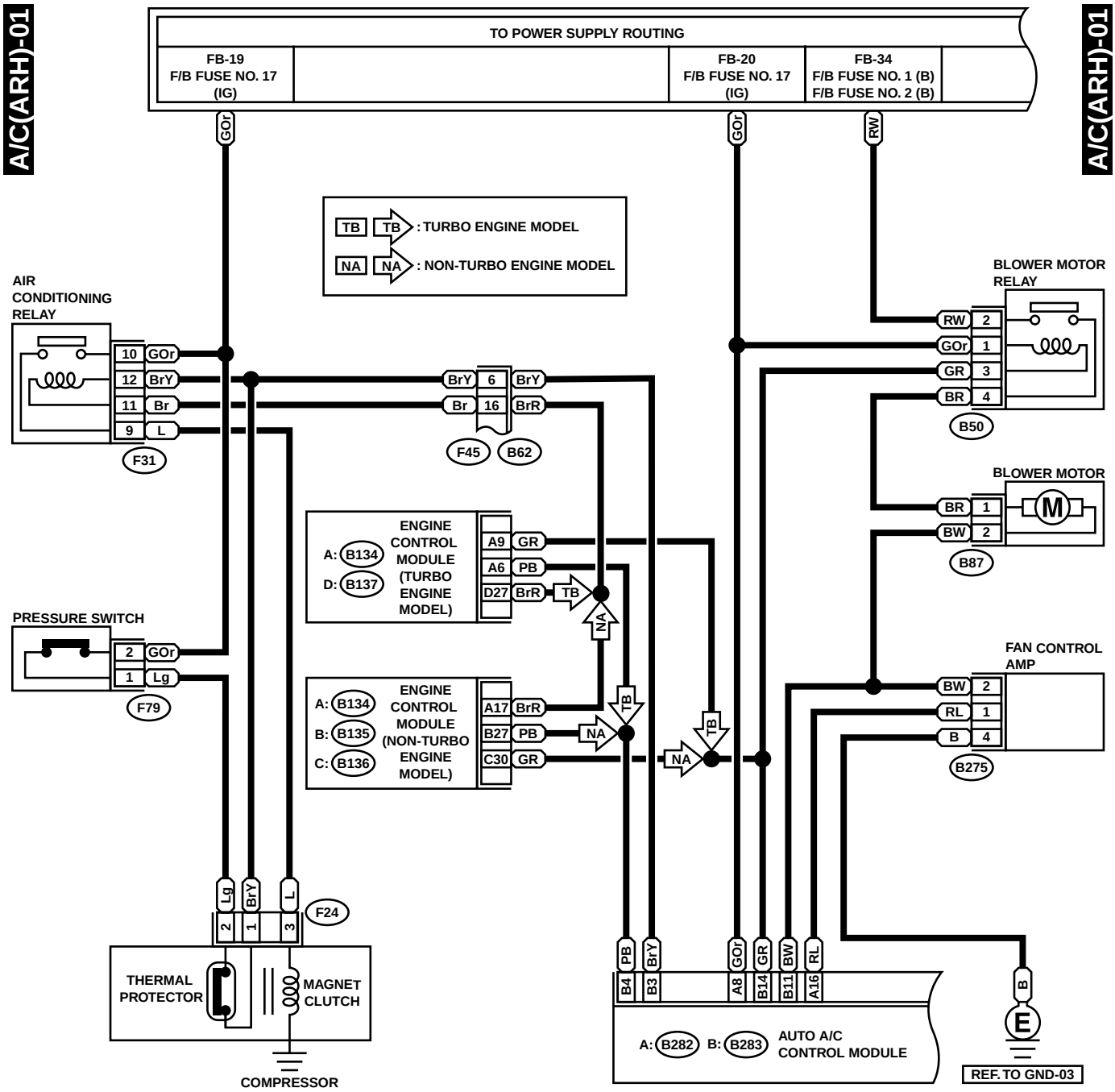
GL46-20C

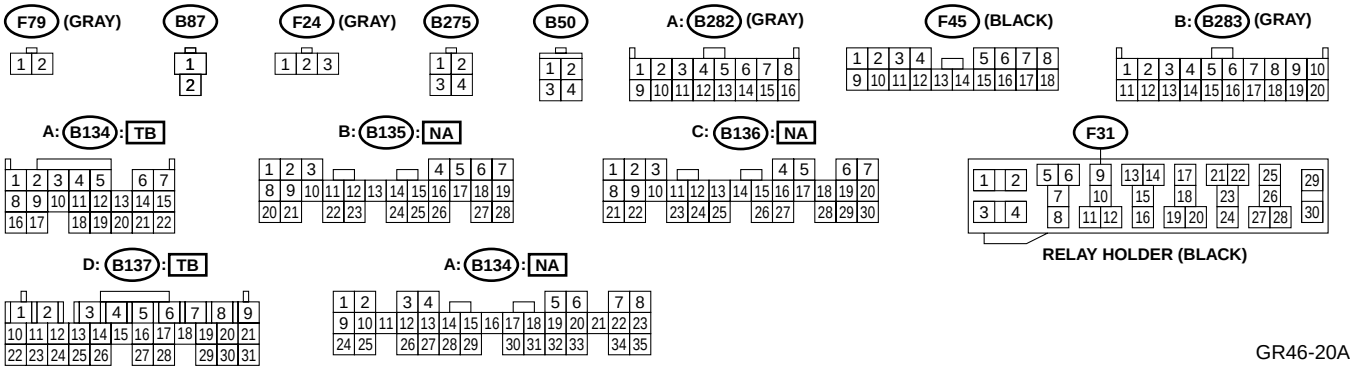

A/C(ALH)-04
A/C(ALH)-04
A: B282 B: B283 AUTO A/C CONTROL MODULE
B15
A15
A7
B5
A4
B12
A12
B6
WG
BL
LgR
GY
L
B
RY
LW
TB
NA
B209
SMJ
J1
F76
B21
10
E2
F61
15
E2
AIR MIX ACTUATOR
MODE ACTUATOR
B293
B77
E8
3
THERMOMETER
B91
1
2
FRESH/RECIRC ACTUATOR
E
REF. TO GND-01•02


B77
B293
E8 (LIGHT GRAY)
B91 (BLACK)
A: B282 (GRAY)
B: B283 (GRAY)
F61 (BLACK)
B21 (LIGHT GRAY)

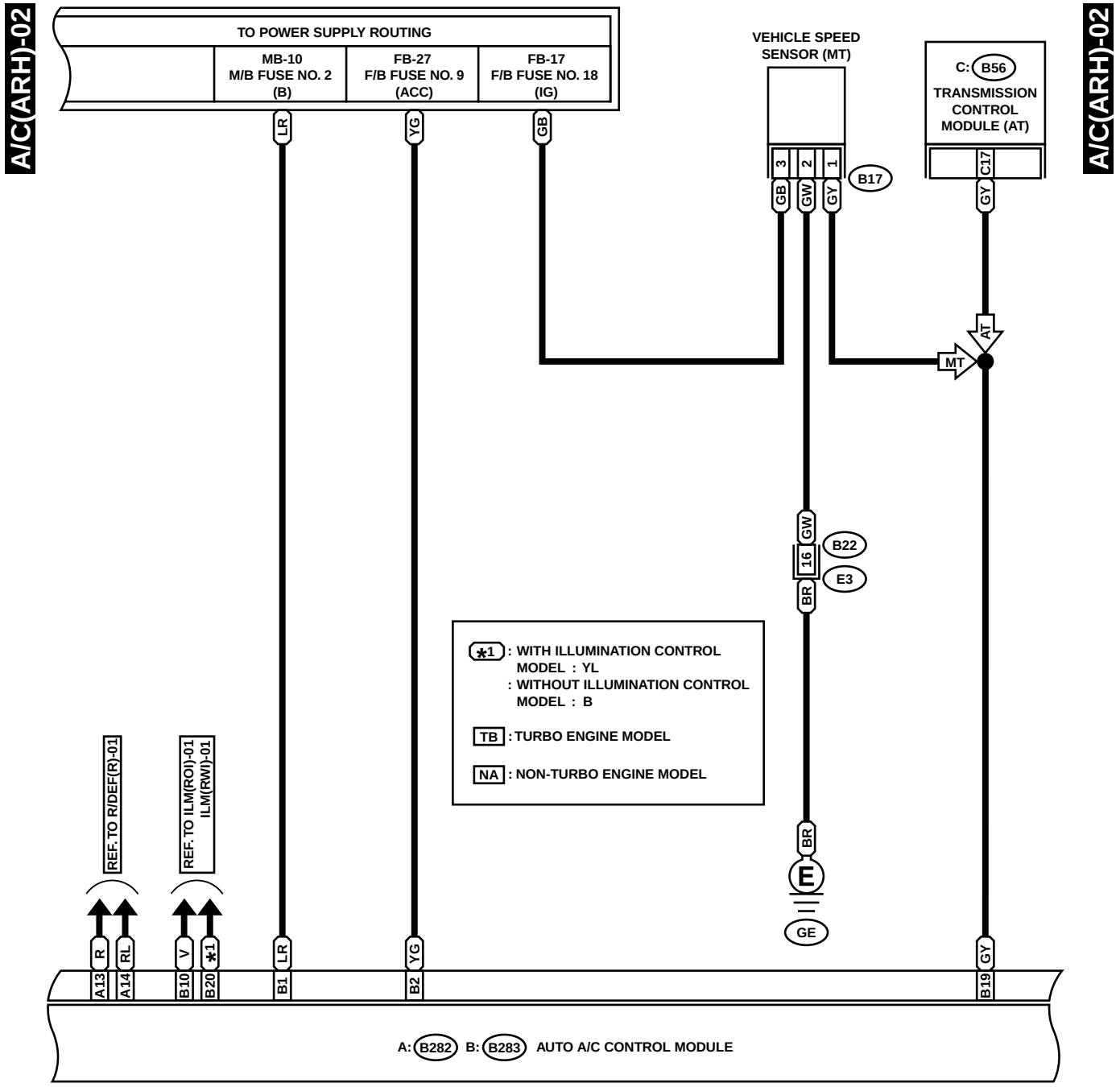
GL46-20D

2. AUTO A/C RHD MODEL





GR46-20A



B17 : NA

1	2	3

B17 : TB

1	2
3	4

B22 (BROWN)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

A: B282 (GRAY)

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

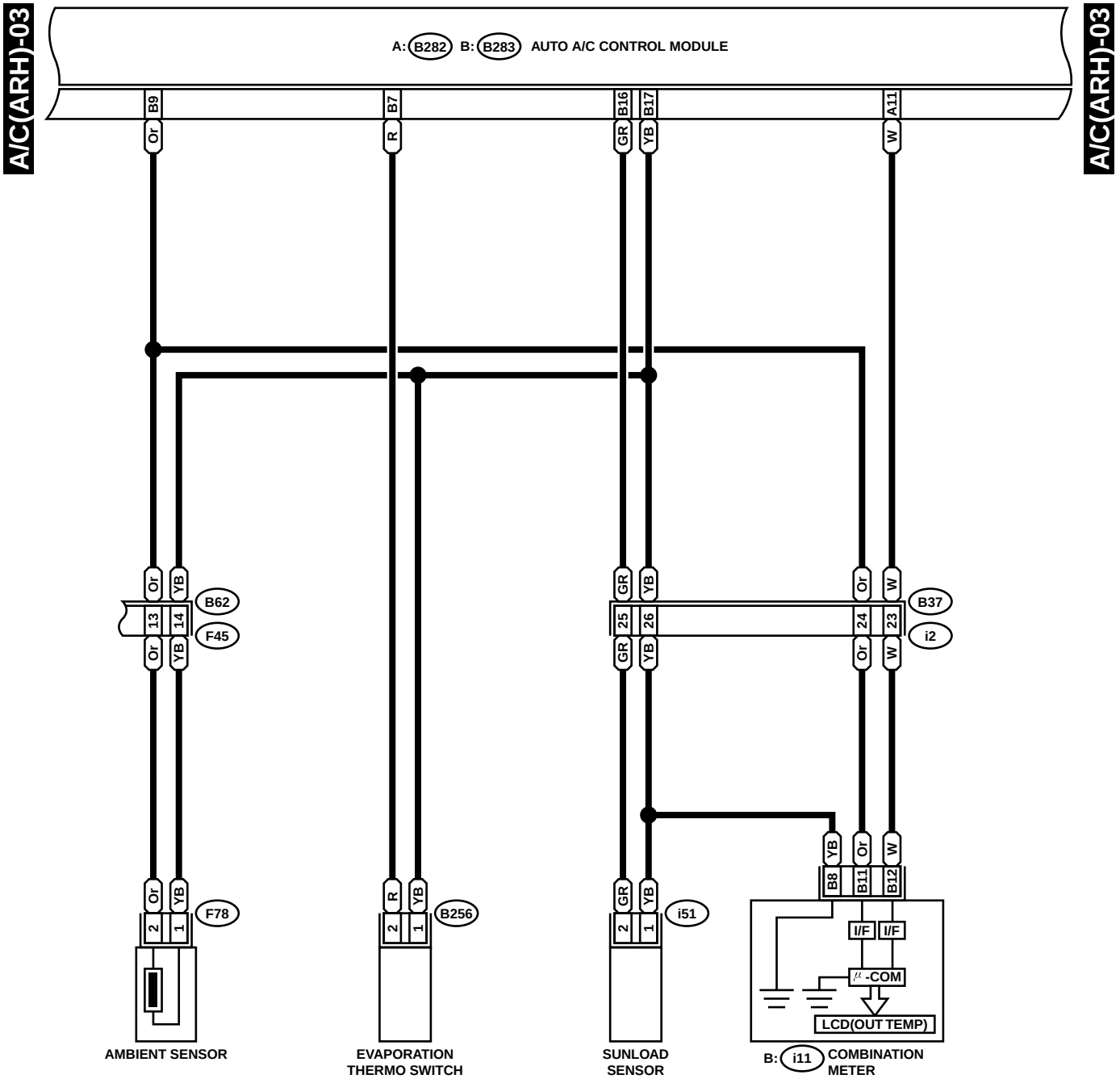
B: B283 (GRAY)

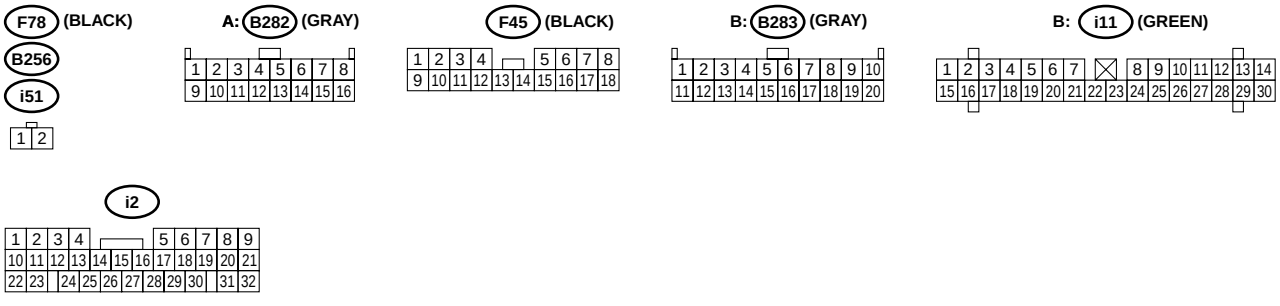
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

C: B56 (GREEN)

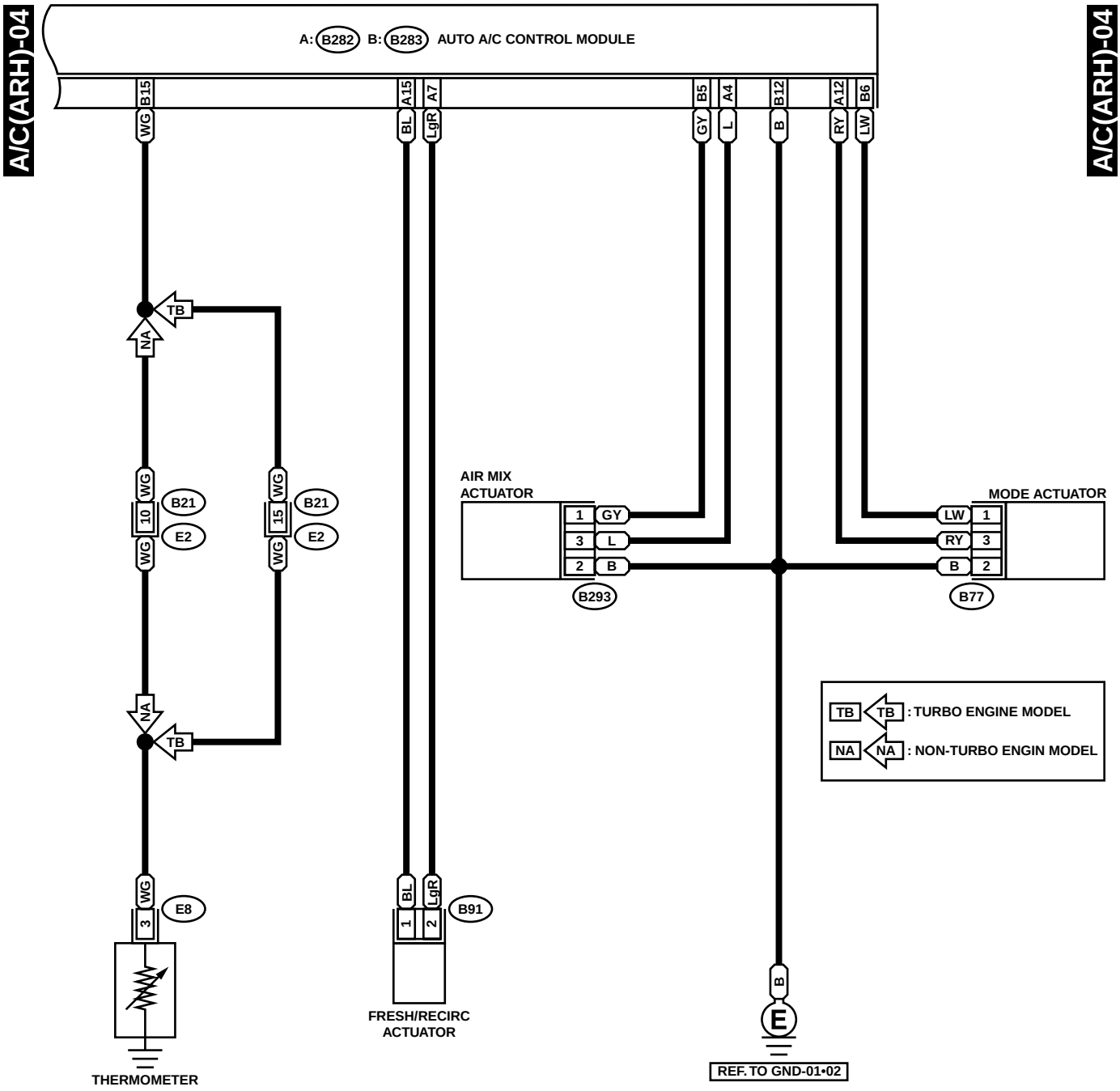
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24

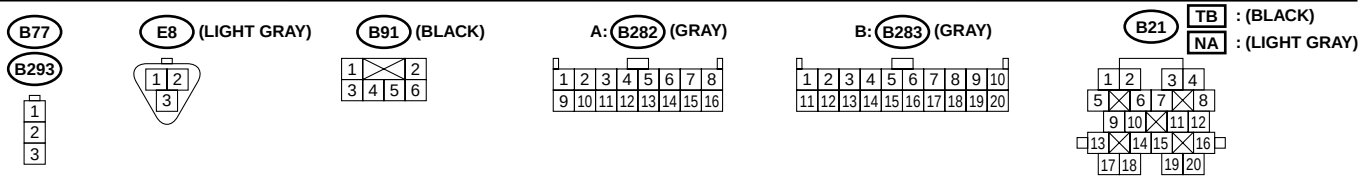
GR46-20B


A/C(ARH)-03
A/C(ARH)-03
A: B282 B: B283 AUTO A/C CONTROL MODULE
B9
B7
B16
B17
A11
Or
R
GR
YB
W
B62
F45
B37
i2
13
14
25
26
24
23
F78
B256
i51
B8
B11
B12
I/F
I/F
-COM
LCD(OUT TEMP)
AMBIENT SENSOR
EVAPORATION THERMO SWITCH
SUNLOAD SENSOR
B: i11 COMBINATION METER


F78 (BLACK)
B256
i51
A: B282 (GRAY)
F45 (BLACK)
B: B283 (GRAY)
B: i11 (GREEN)
i2

GR46-20C


A/C(ARH)-04
A/C(ARH)-04
A: B282 B: B283 AUTO A/C CONTROL MODULE
B15
A15
A7
B5
A4
B12
A12
B6
WG
BL
LgR
GY
L
B
RY
LW
TB
NA
B21
E2
AIR MIX ACTUATOR
MODE ACTUATOR
B293
B77
TB : TURBO ENGINE MODEL
NA : NON-TURBO ENGIN MODEL
E8
B91
FRESH/RECIRC ACTUATOR
THERMOMETER
REF. TO GND-01•02

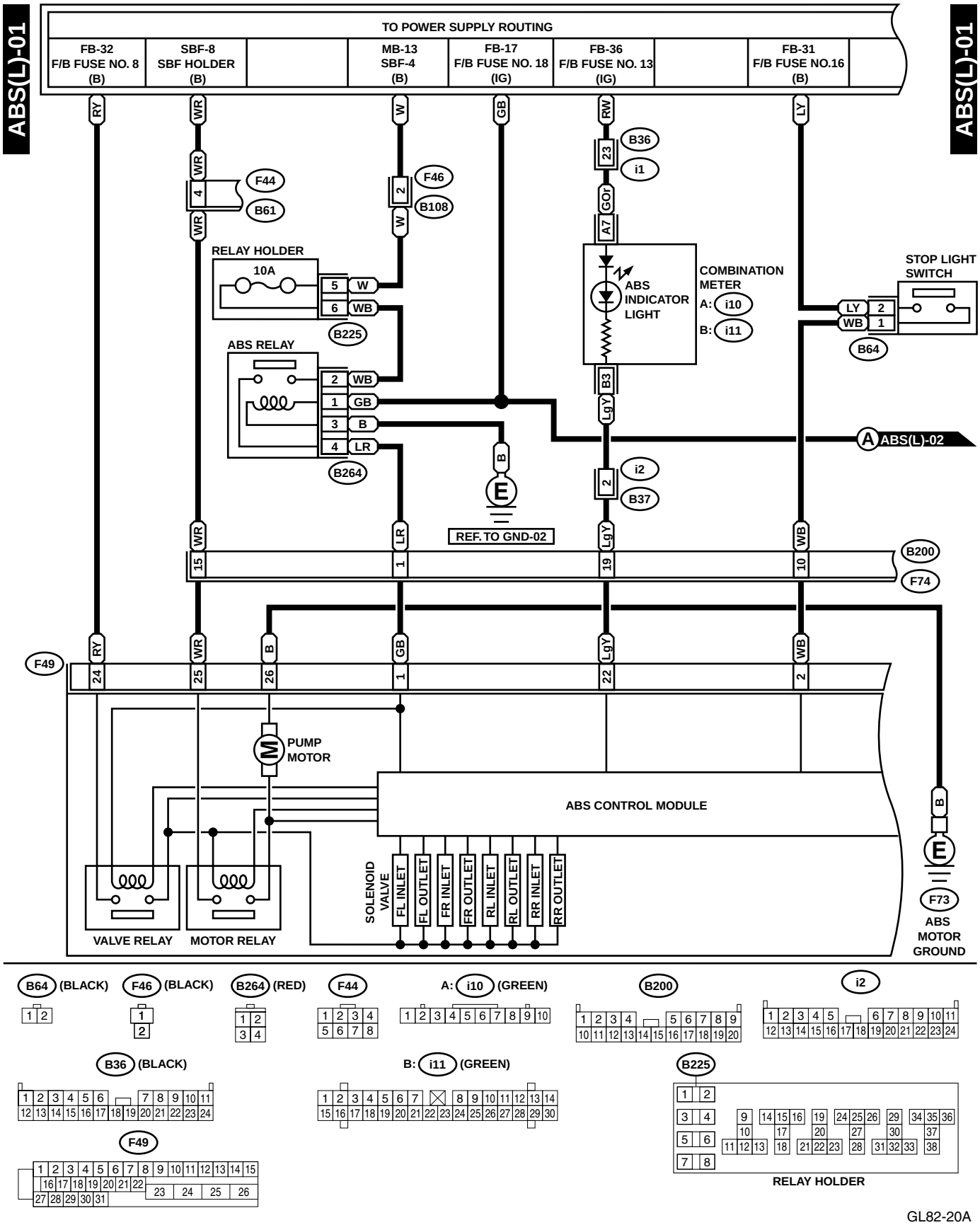

B77
B293
E8 (LIGHT GRAY)
B91 (BLACK)
A: B282 (GRAY)
B: B283 (GRAY)
B21
TB : (BLACK)
NA : (LIGHT GRAY)

GR46-20D

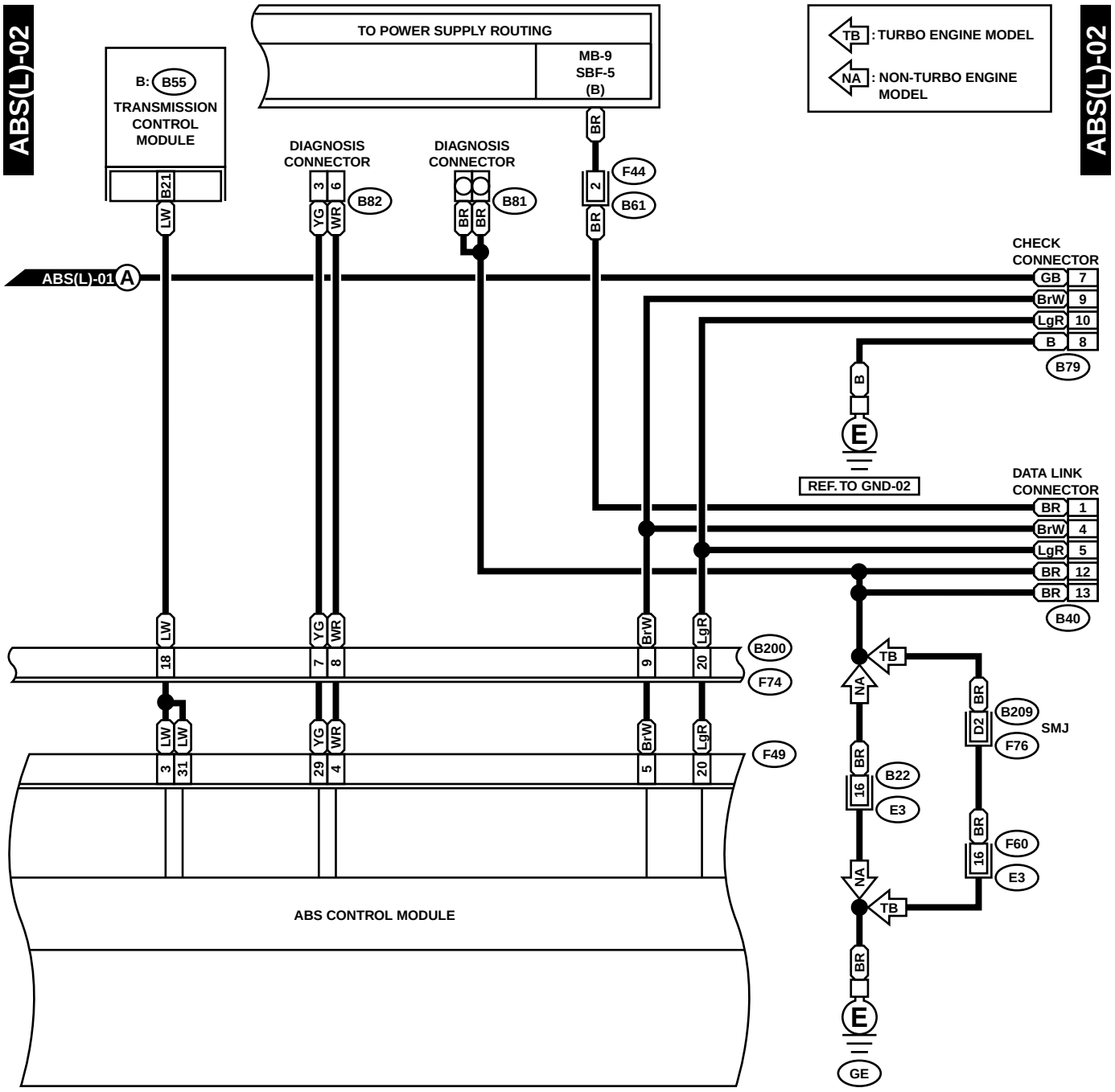
8. Anti-lock Brake System

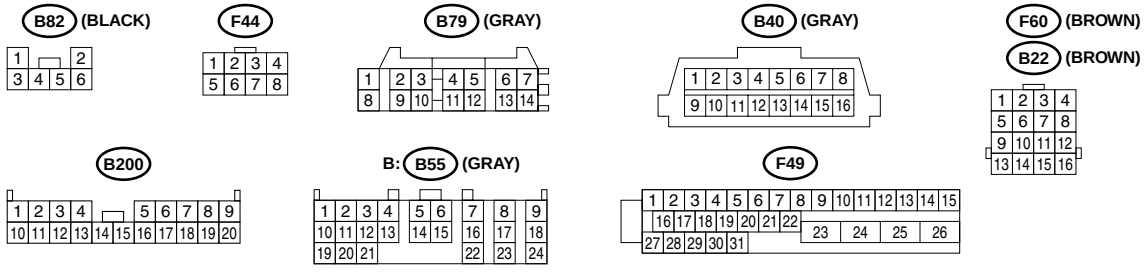
A: SCHEMATIC

1. LHD MODEL

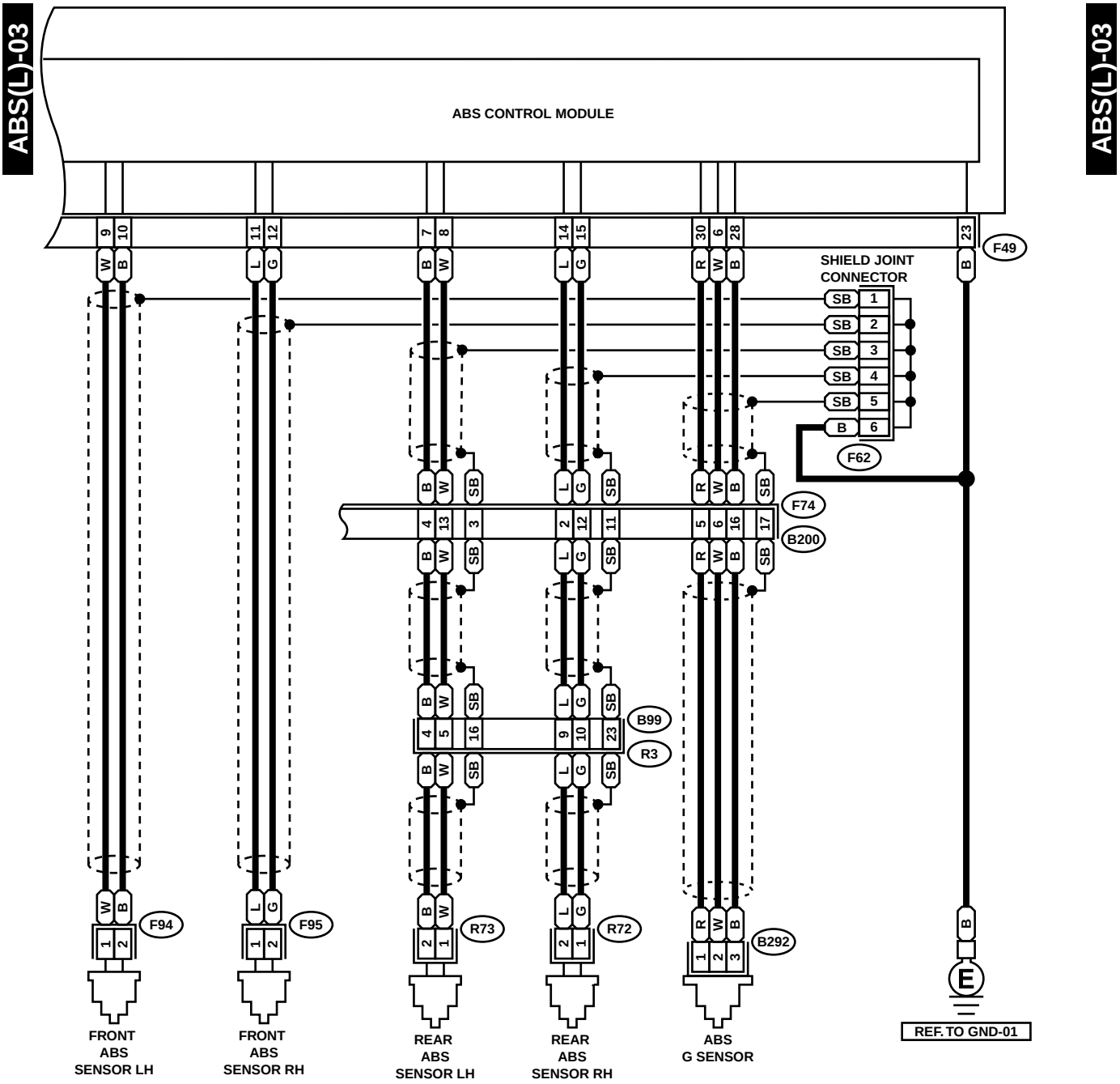


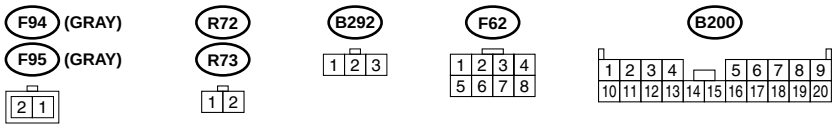
GL82-20A

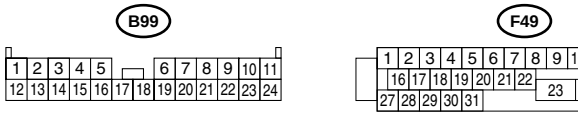

ABS(L)-02
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
TB : TURBO ENGINE MODEL
NA : NON-TURBO ENGINE MODEL
B: B55
TRANSMISSION CONTROL MODULE
B21
LW
DIAGNOSIS CONNECTOR
B82
YG
WR
DIAGNOSIS CONNECTOR
B81
BR
F44
B61
CHECK CONNECTOR
GB 7
BrW 9
LgR 10
B 8
B79
ABS(L)-01 A
REF. TO GND-02
DATA LINK CONNECTOR
BR 1
BrW 4
LgR 5
BR 12
BR 13
B40
B200
F74
18
7
8
9
20
F49
3
31
29
4
5
20
TB
NA
B209
D2
F76
SMJ
B22
16
E3
F60
ABS CONTROL MODULE
GE


B82 (BLACK)
F44
B79 (GRAY)
B40 (GRAY)
F60 (BROWN)
B22 (BROWN)
B200
B: B55 (GRAY)
F49

GL82-20B

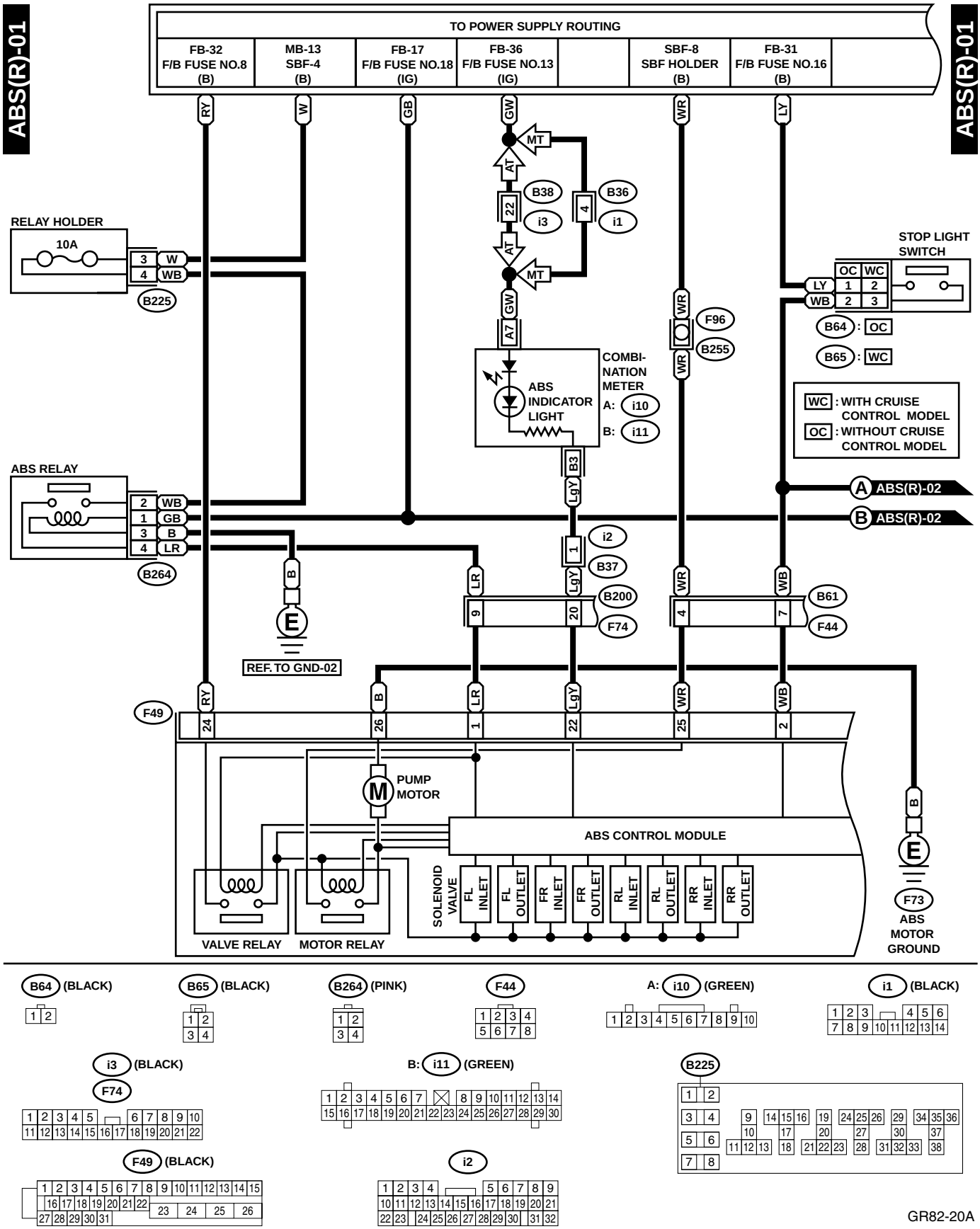

ABS(L)-03
ABS(L)-03
ABS CONTROL MODULE
SHIELD JOINT CONNECTOR
F49
F62
F74
B200
B99
R3
F94
F95
R73
R72
B292
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR
REF. TO GND-01


F94 (GRAY)
F95 (GRAY)
R72
R73
B292
F62
B200

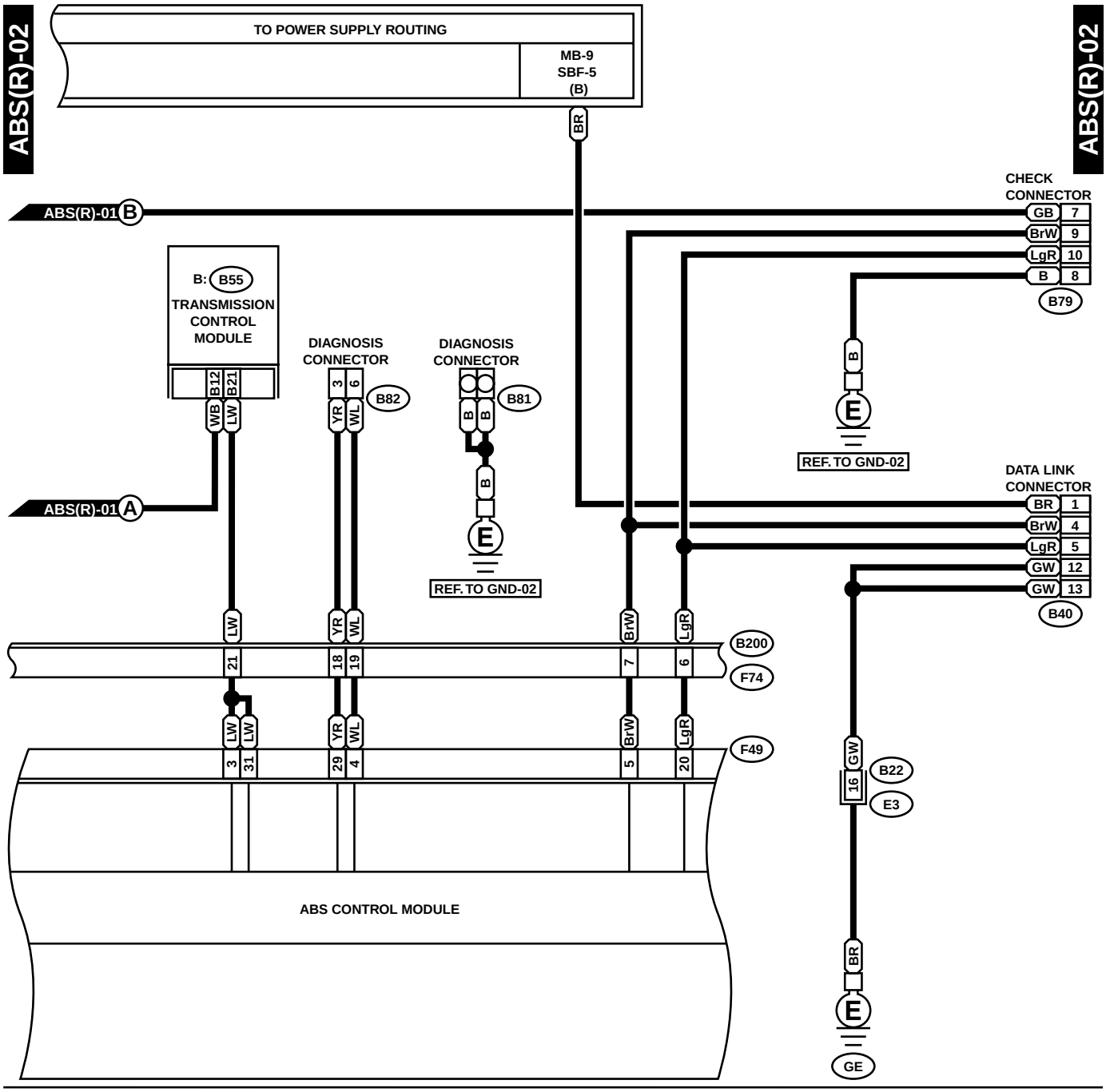

B99
F49

GL82-20C

2. RHD MODEL

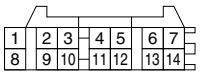


GR82-20A

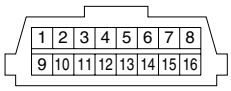


B82 (BLACK)

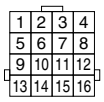
B79 (GRAY)



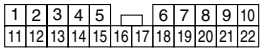
B40 (GRAY)



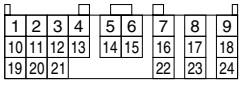
B22 (BROWN)



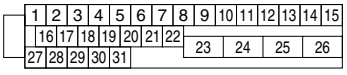
F74



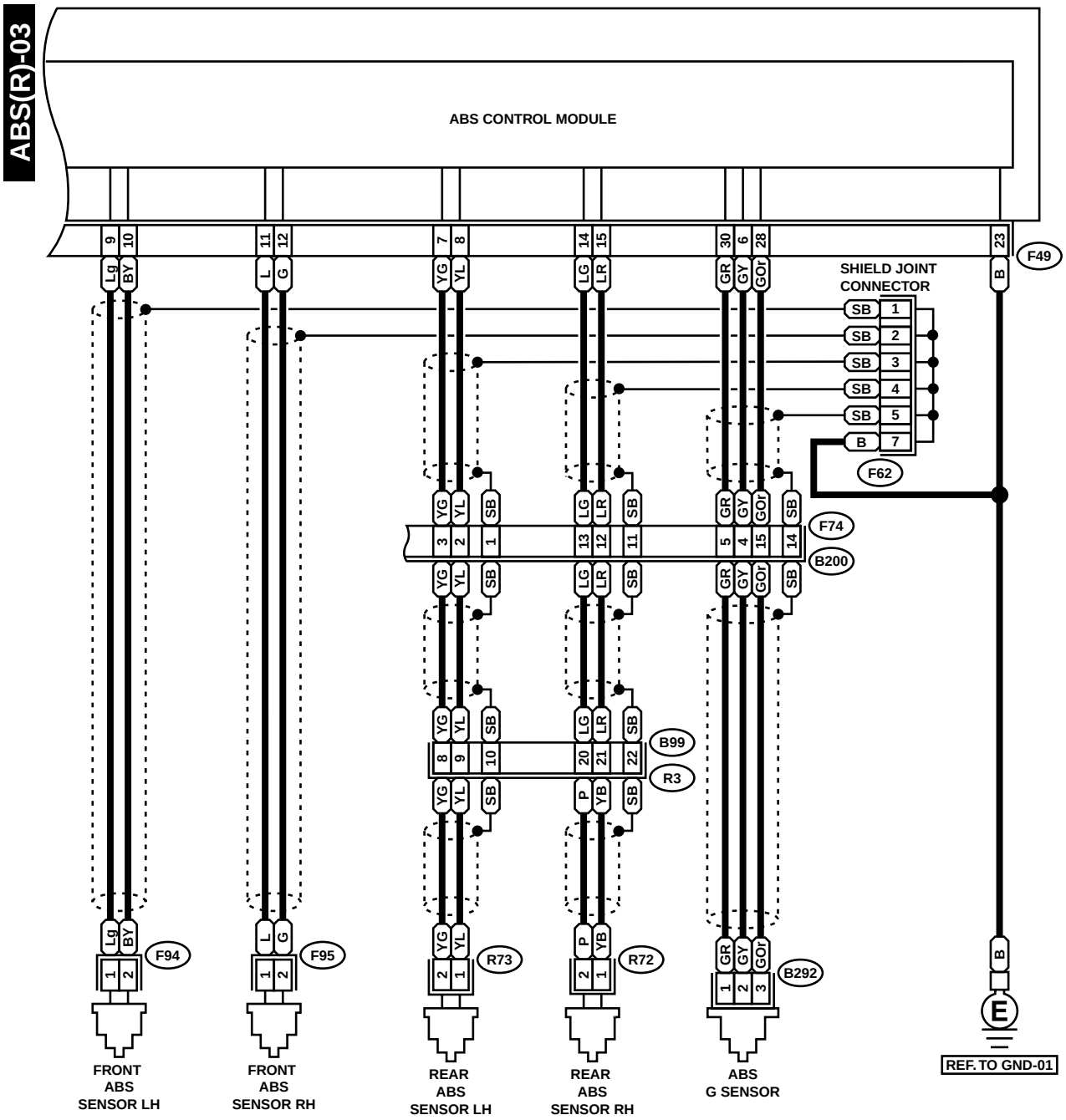
B: B55 (GRAY)

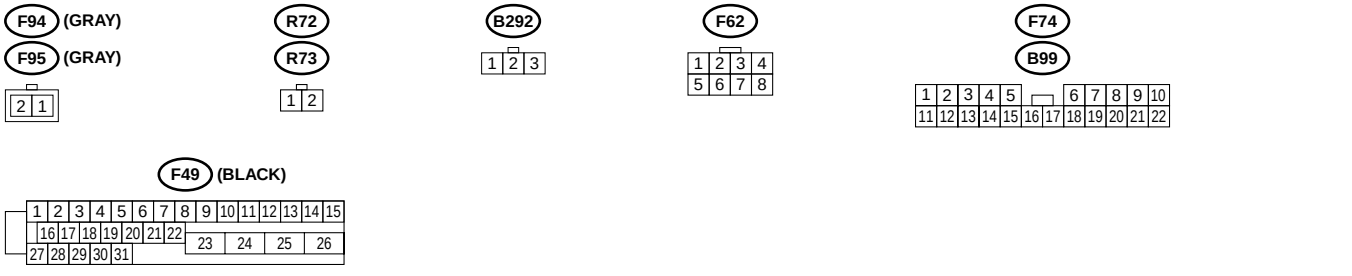


F49 (BLACK)



GR82-20B


ABS(R)-03
ABS(R)-03
ABS CONTROL MODULE
SHIELD JOINT CONNECTOR
F49
F62
F74
B200
B99
R3
F94
F95
R73
R72
B292
REF. TO GND-01
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR

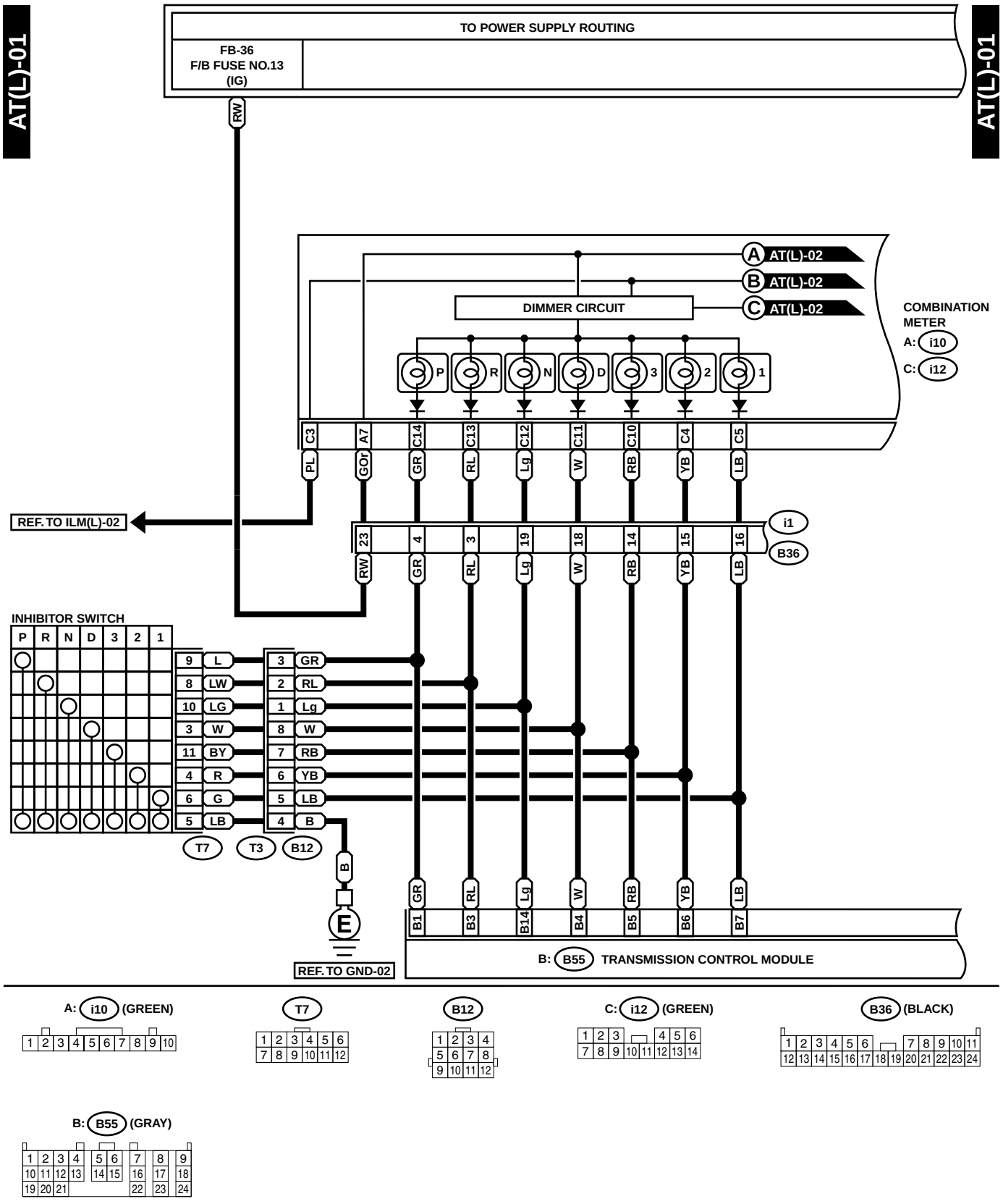

F94 (GRAY)
F95 (GRAY)
R72
R73
B292
F62
F74
B99
F49 (BLACK)

GR82-20C

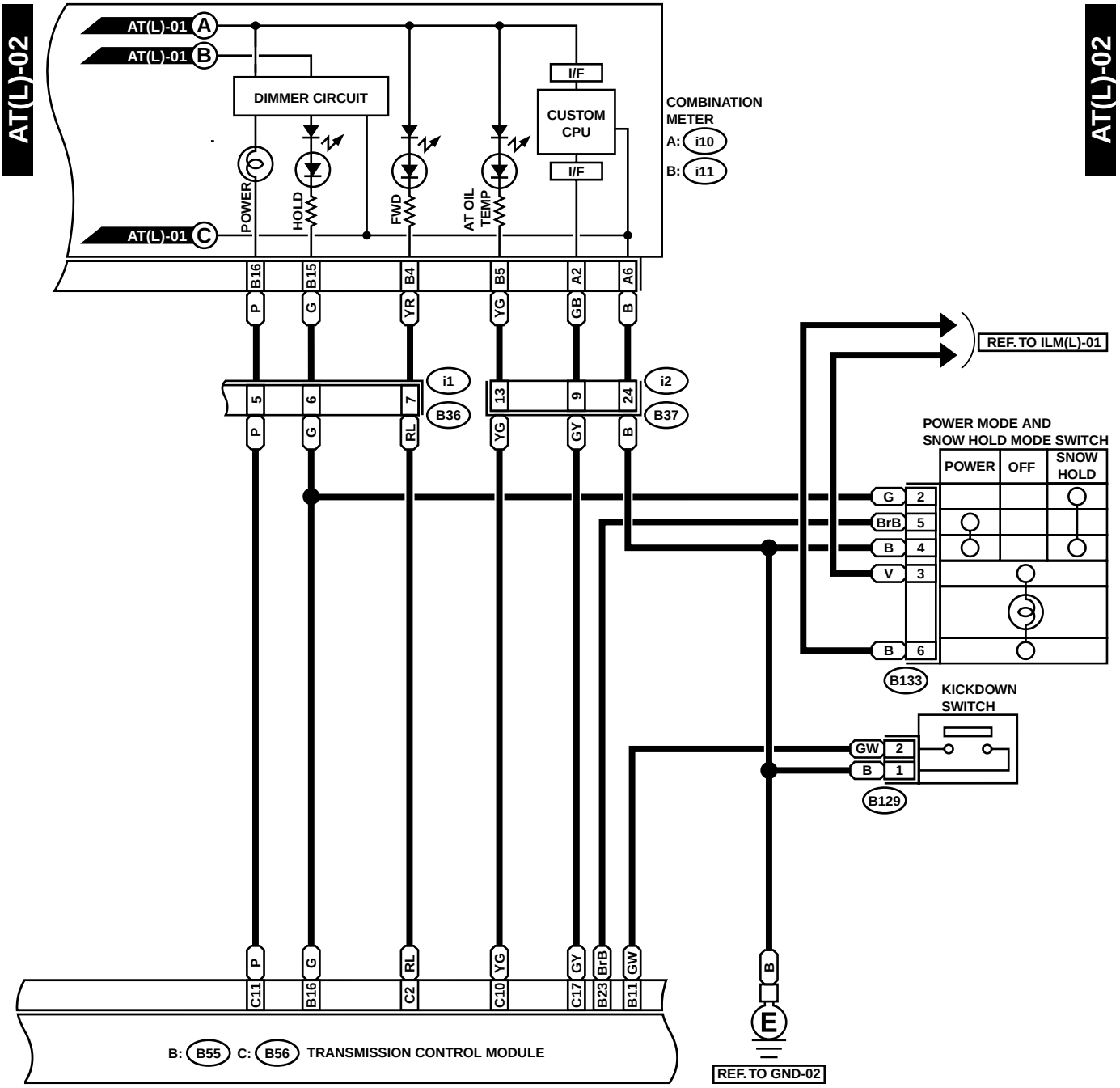
9. A/T Control System

A: SCHEMATIC

1. LHD MODEL



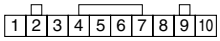
GL41-20A



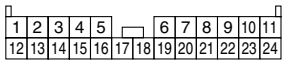
B129 (BLACK)

B133 (BLUE)

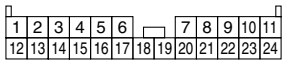
A: i10 (GREEN)



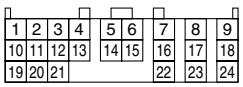
i2



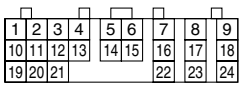
B36 (BLACK)



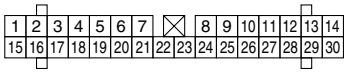
B: B55 (GRAY)



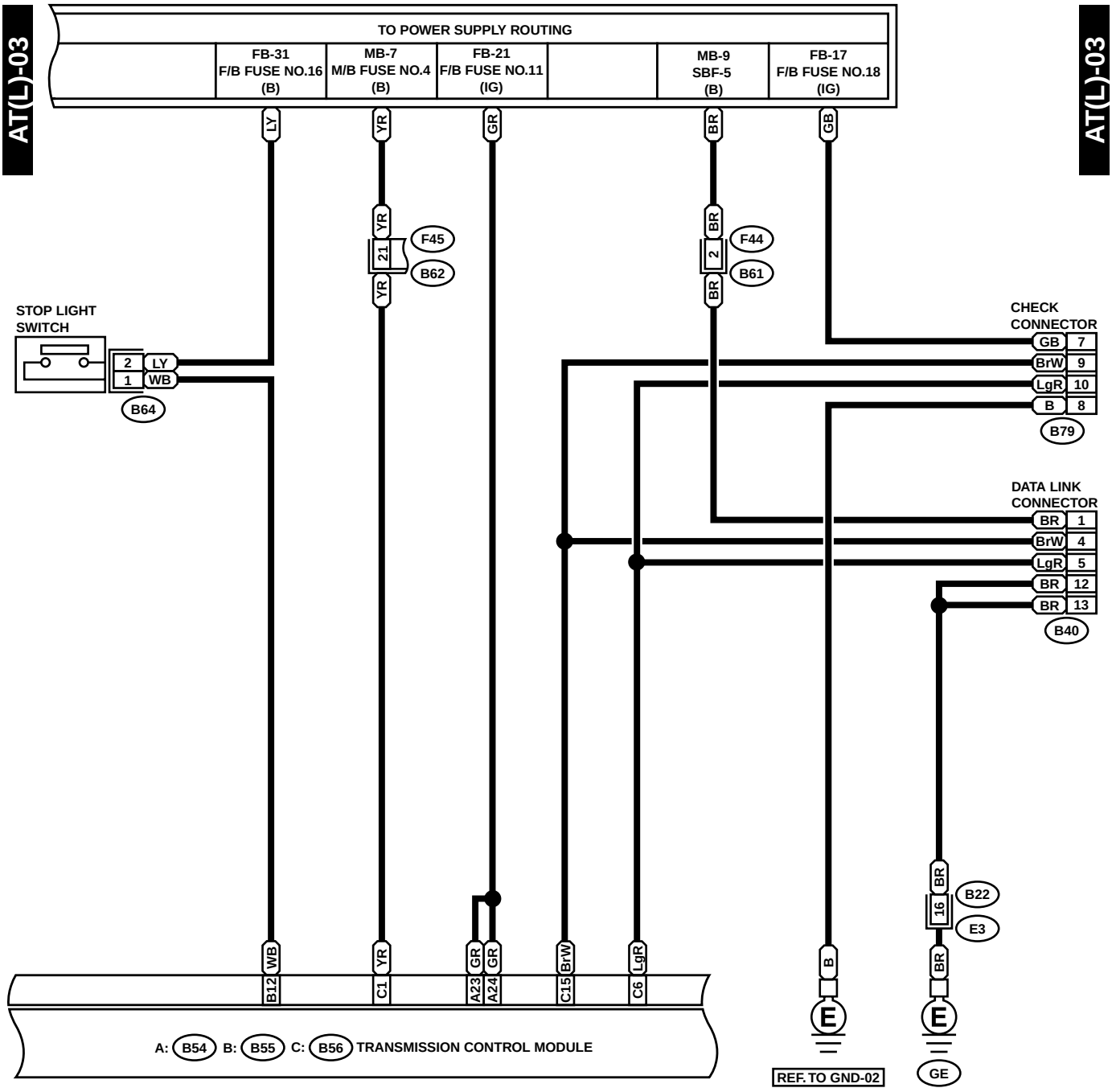
C: B56 (GREEN)

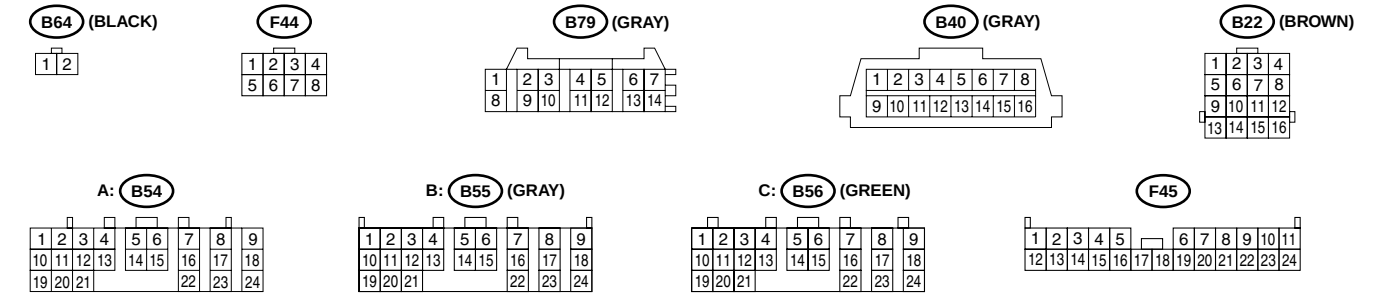


B: i11 (GREEN)

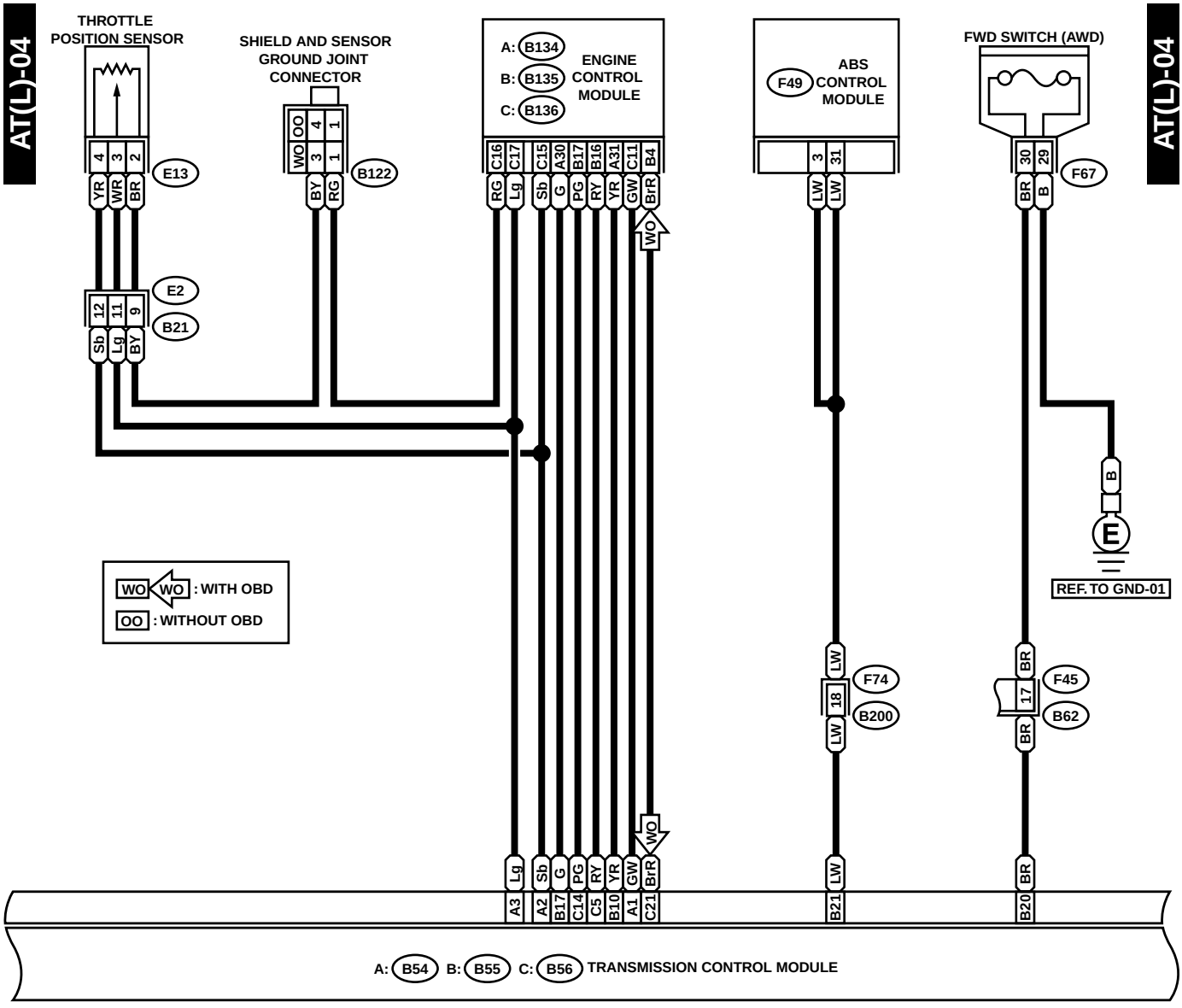


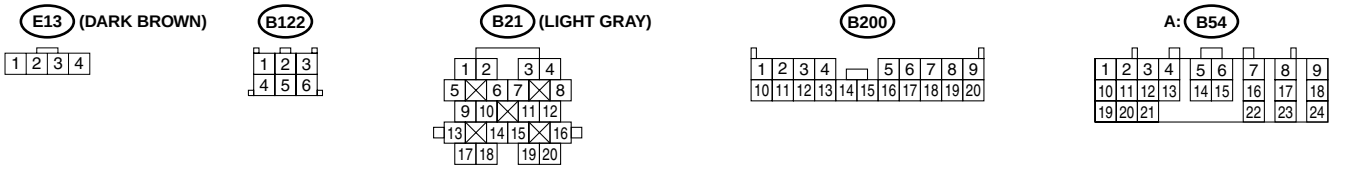
GL41-20B

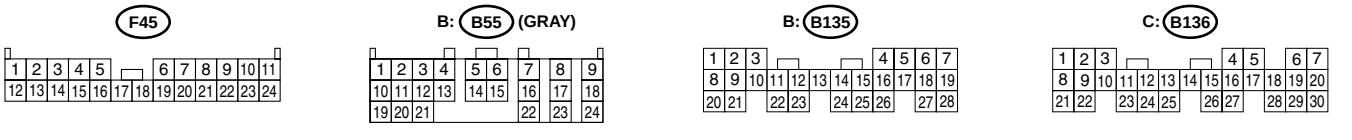

AT(L)-03
AT(L)-03
TO POWER SUPPLY ROUTING
FB-31
F/B FUSE NO.16
(B)
MB-7
M/B FUSE NO.4
(B)
FB-21
F/B FUSE NO.11
(IG)
MB-9
SBF-5
(B)
FB-17
F/B FUSE NO.18
(IG)
LY
YR
GR
BR
GB
F45
B62
F44
B61
STOP LIGHT
SWITCH
B64
CHECK
CONNECTOR
B79
DATA LINK
CONNECTOR
B40
B22
E3
WB
B12
C1
A23
A24
C15
C6
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
REF. TO GND-02
GE

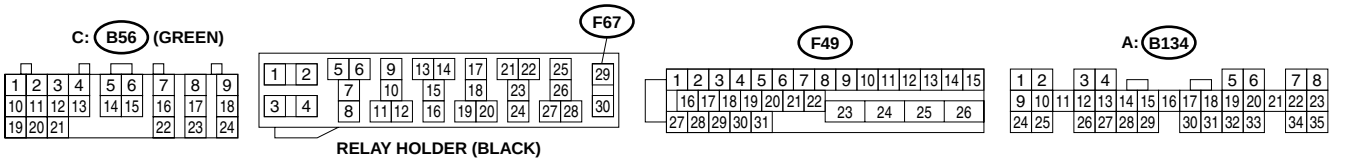

B64 (BLACK)
F44
B79 (GRAY)
B40 (GRAY)
B22 (BROWN)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)
F45

GL41-20C

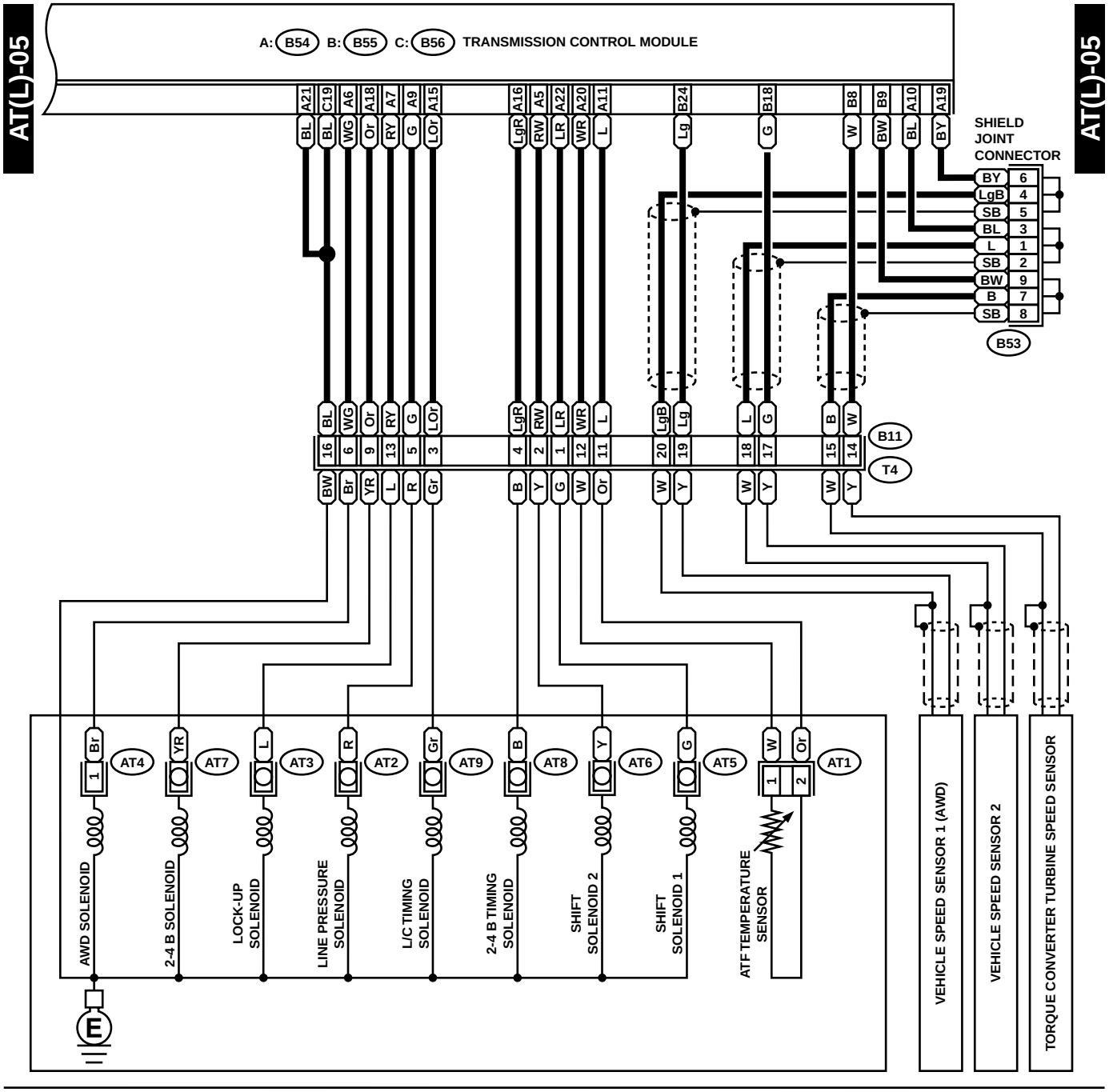

AT(L)-04
THROTTLE POSITION SENSOR
SHIELD AND SENSOR GROUND JOINT CONNECTOR
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE
F49
ABS CONTROL MODULE
FWD SWITCH (AWD)
E13
B122
E2
B21
F67
WO : WITH OBD
OO : WITHOUT OBD
REF. TO GND-01
F74
B200
F45
B62
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE

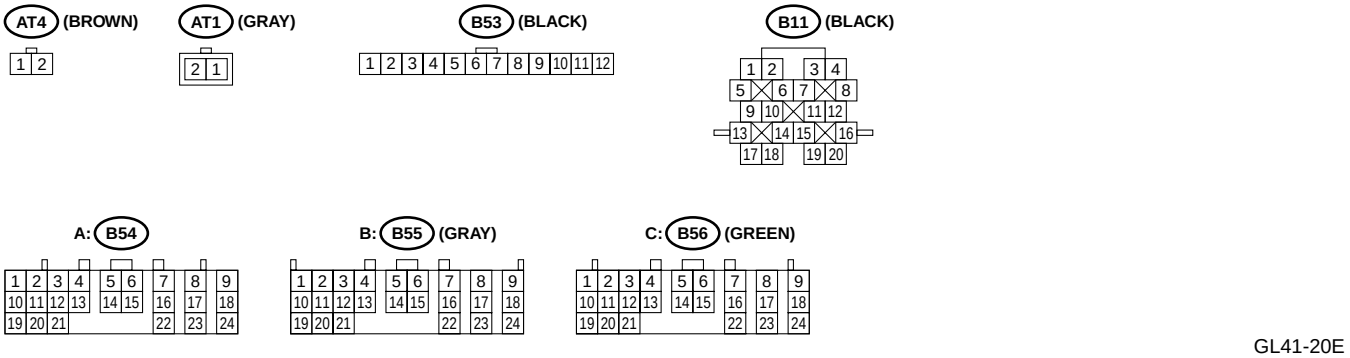

E13 (DARK BROWN)
B122
B21 (LIGHT GRAY)
B200
A: B54


F45
B: B55 (GRAY)
B: B135
C: B136


C: B56 (GREEN)
F67
RELAY HOLDER (BLACK)
F49
A: B134

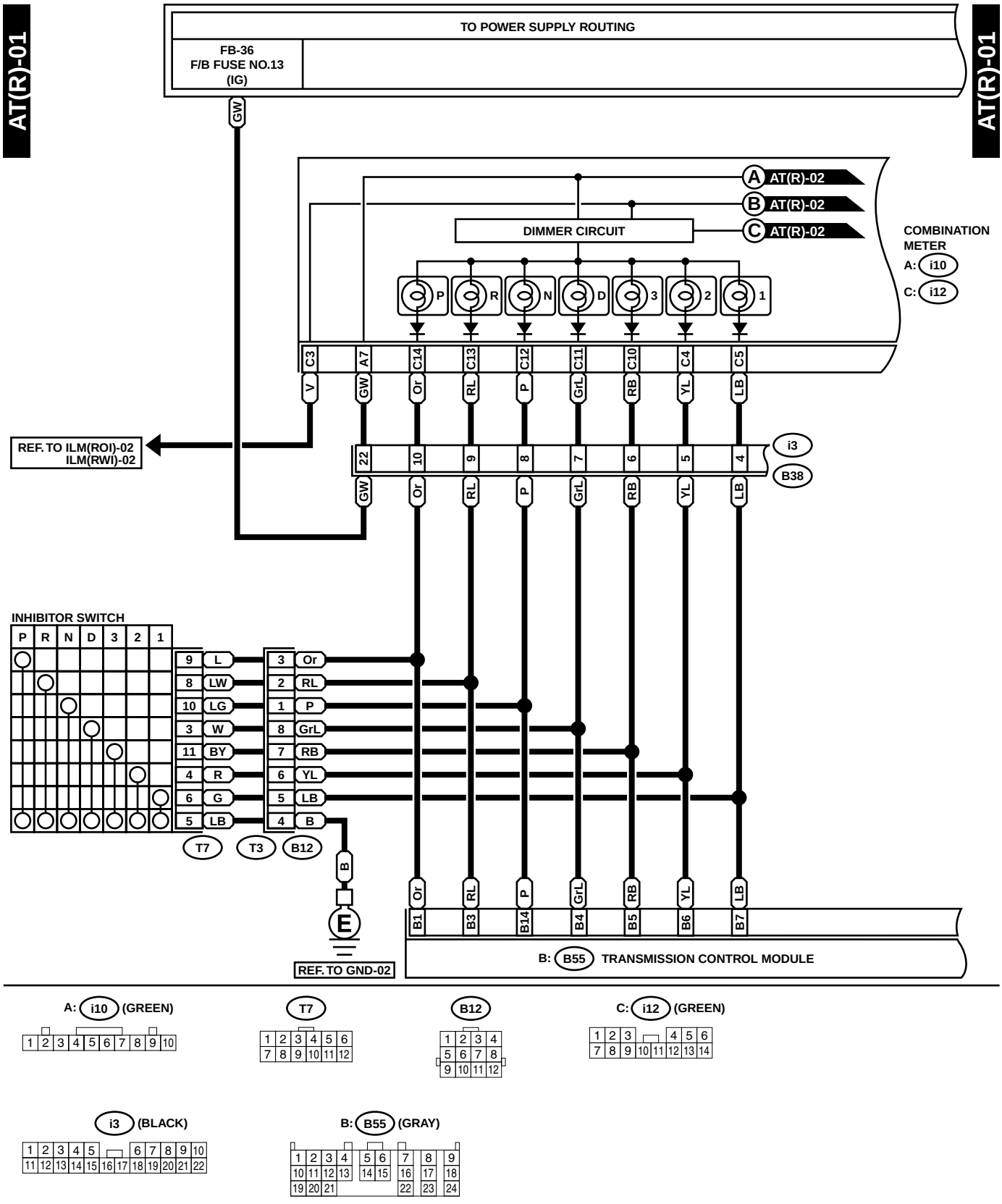
GL41-20D


AT(L)-05
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
A21 C19 A6 A18 A7 A9 A15 A16 A5 A22 A20 A11 B24 B18 B8 B9 A10 A19
BL BL WG Or RY G LOr LgR RW LR WR L Lg G W BW BL BY
SHIELD JOINT CONNECTOR
BY 6
LgB 4
SB 5
BL 3
L 1
SB 2
BW 9
B 7
SB 8
B53
BL WG Or RY G LOr LgR RW LR WR L LgB Lg L G B W
16 6 9 13 5 3 4 2 1 12 11 20 19 18 17 15 14
B11
T4
BW Br YR L R Gr B Y G W Or W Y W Y W Y
AT4 AT7 AT3 AT2 AT9 AT8 AT6 AT5 AT1
AWD SOLENOID
2-4 B SOLENOID
LOCK-UP SOLENOID
LINE PRESSURE SOLENOID
L/C TIMING SOLENOID
2-4 B TIMING SOLENOID
SHIFT SOLENOID 2
SHIFT SOLENOID 1
ATF TEMPERATURE SENSOR
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
E

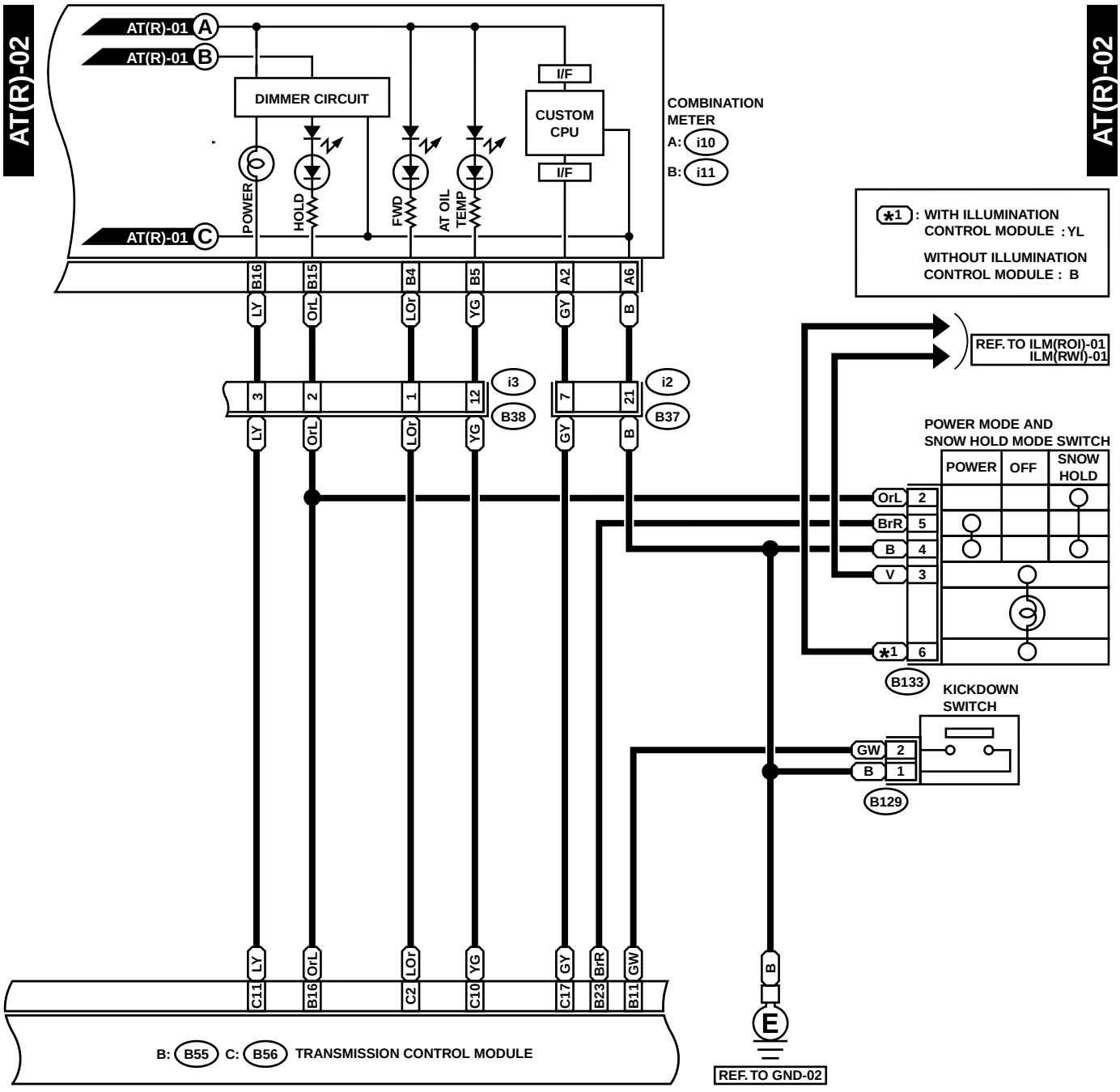

AT4 (BROWN)
AT1 (GRAY)
B53 (BLACK)
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

GL41-20E

2. RHD MODEL



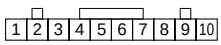
GR41-20A



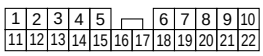
B129

B133 (BLUE)

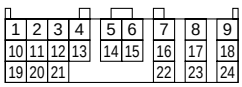
A: i10 (GREEN)



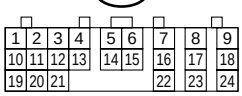
i3 (BLACK)



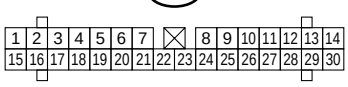
B: B55 (GRAY)



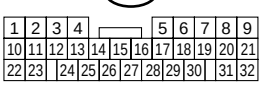
C: B56 (GREEN)



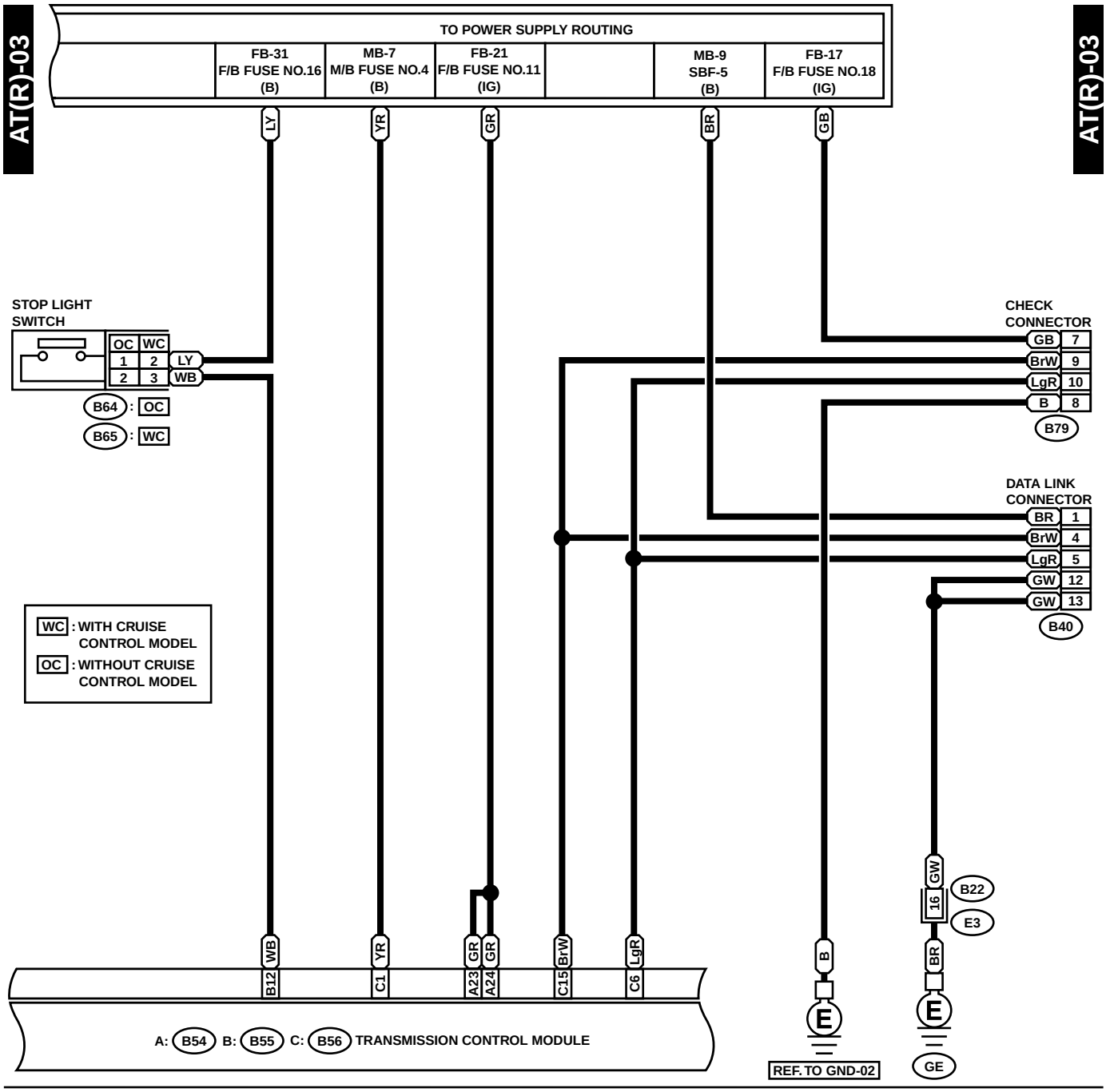
B: i11 (GREEN)

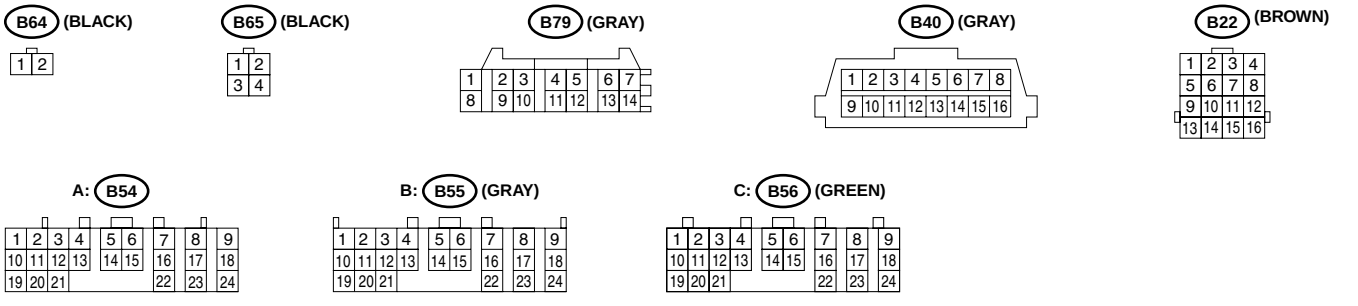


i2

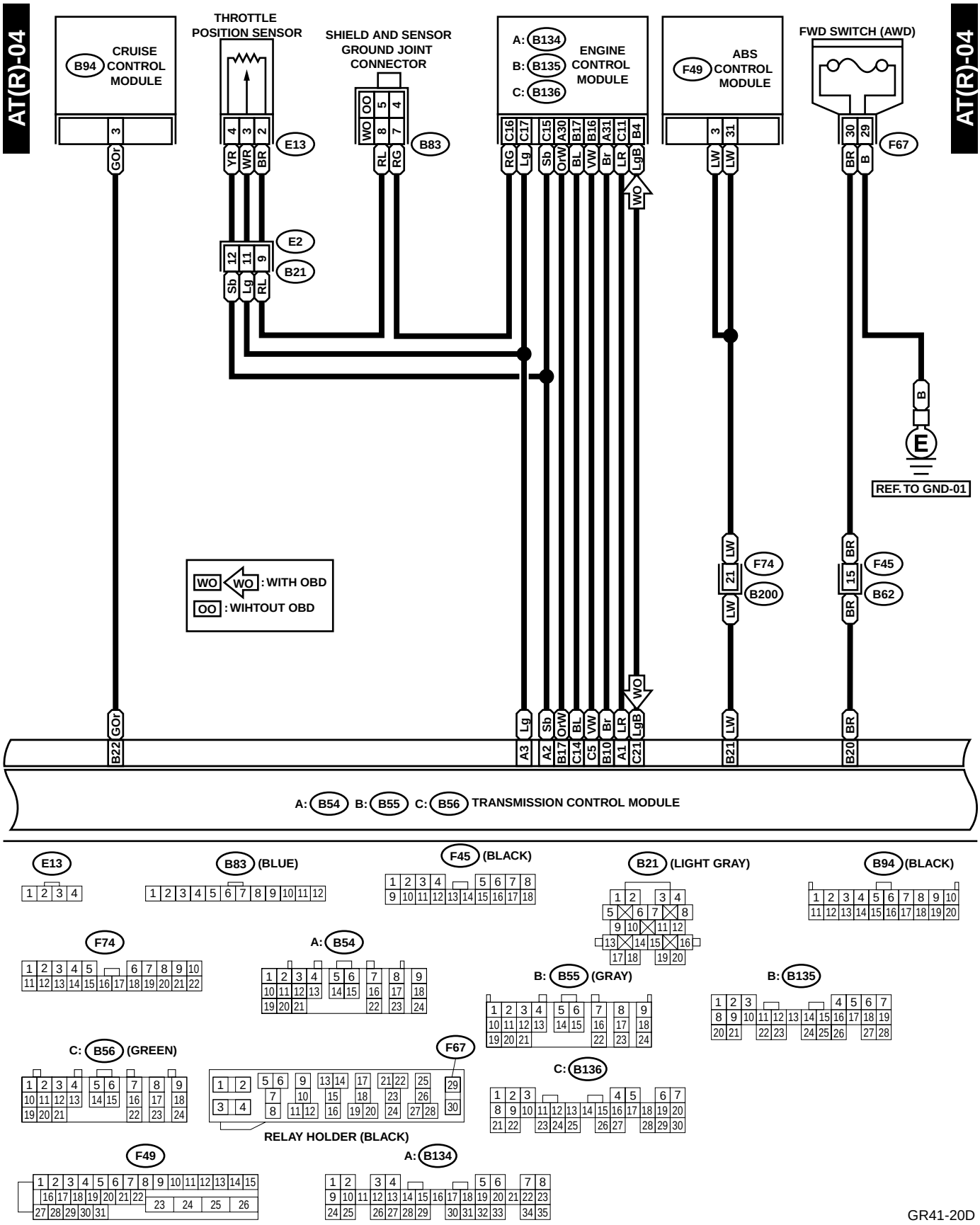


GR41-20B


AT(R)-03
AT(R)-03
TO POWER SUPPLY ROUTING
FB-31
F/B FUSE NO.16
(B)
MB-7
M/B FUSE NO.4
(B)
FB-21
F/B FUSE NO.11
(IG)
MB-9
SBF-5
(B)
FB-17
F/B FUSE NO.18
(IG)
LY
YR
GR
BR
GB
STOP LIGHT SWITCH
OC
WC
1
2
3
LY
WB
B64 : OC
B65 : WC
CHECK CONNECTOR
GB 7
BrW 9
LgR 10
B 8
B79
DATA LINK CONNECTOR
BR 1
BrW 4
LgR 5
GW 12
GW 13
B40
WC : WITH CRUISE CONTROL MODEL
OC : WITHOUT CRUISE CONTROL MODEL
WB
YR
GR
GR
BrW
LgR
B
GW
16
B22
E3
BR
B12
C1
A23
A24
C15
C6
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
REF. TO GND-02
GE

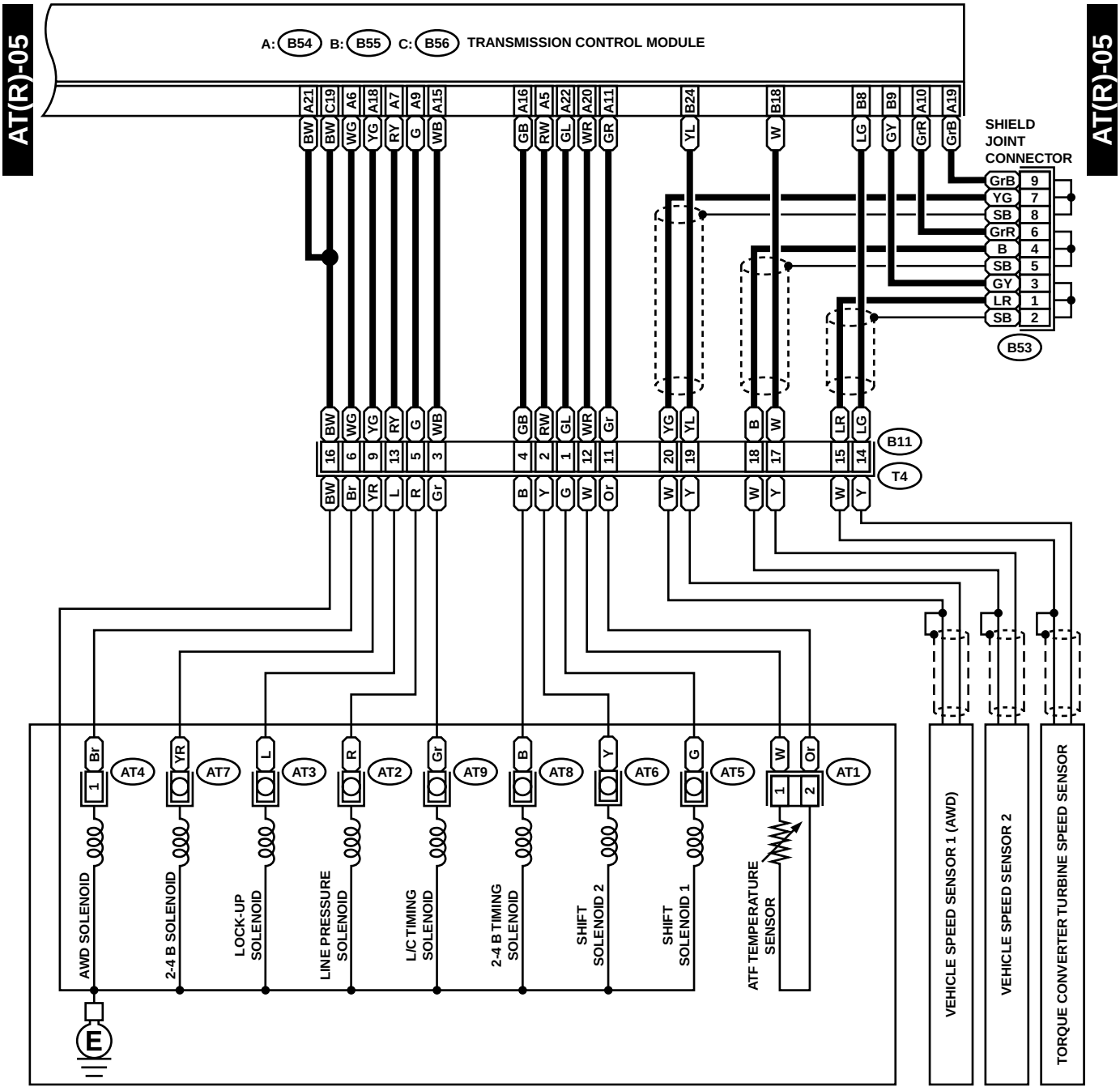

B64 (BLACK)
B65 (BLACK)
B79 (GRAY)
B40 (GRAY)
B22 (BROWN)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

GR41-20C


AT(R)-04
CRUISE CONTROL MODULE
B94
THROTTLE POSITION SENSOR
SHIELD AND SENSOR GROUND JOINT CONNECTOR
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE
F49
ABS CONTROL MODULE
FWD SWITCH (AWD)
F67
E13
B83
E2
B21
WO : WITH OBD
OO : WIHTOUT OBD
F74
B200
F45
B62
REF. TO GND-01
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
B22
B20
A3
A2
B17
C14
C5
B10
A1
C21
B21

E13
B83 (BLUE)
F45 (BLACK)
B21 (LIGHT GRAY)
B94 (BLACK)
F74
A: B54
B: B55 (GRAY)
B: B135
C: B56 (GREEN)
F67
RELAY HOLDER (BLACK)
C: B136
F49
A: B134

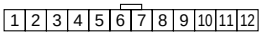
GR41-20D



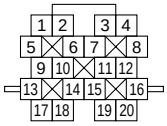
AT4 (BROWN)

AT1 (GRAY)

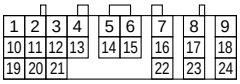
B53 (BLACK)



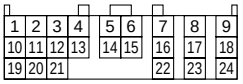
B11 (BLACK)



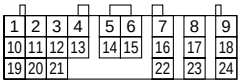
A: B54



B: B55 (GRAY)



C: B56 (GREEN)

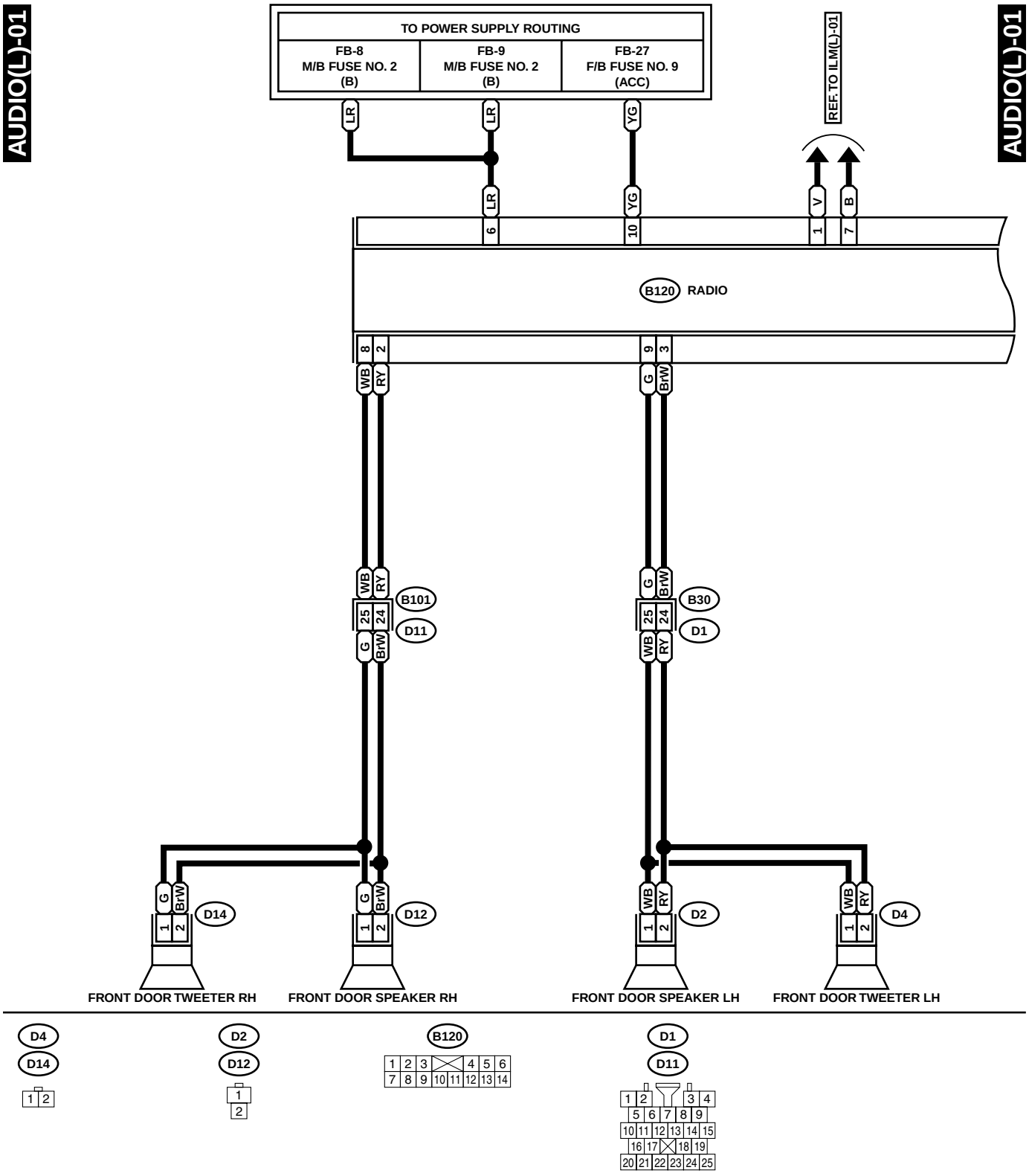


GR41-20E

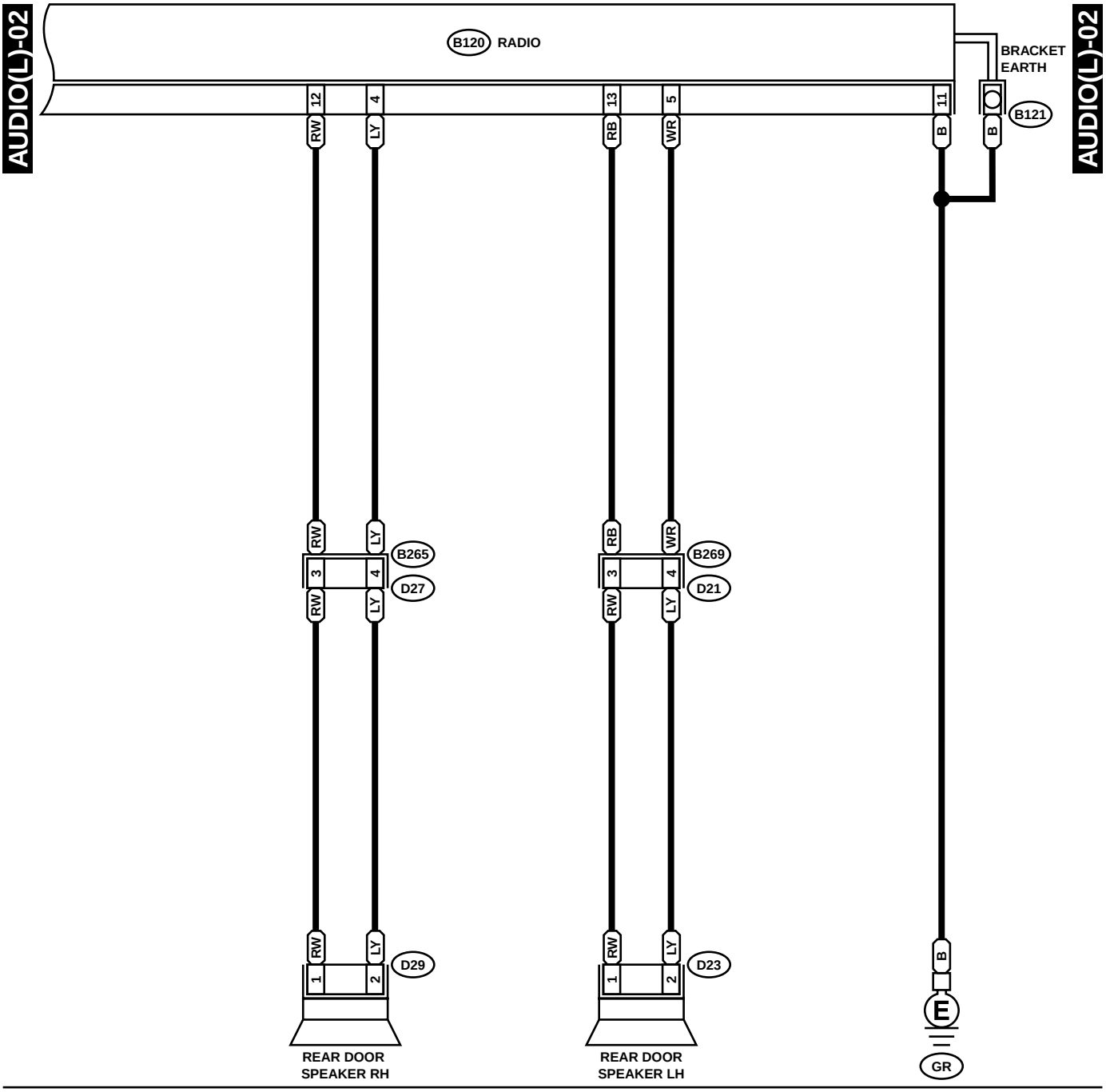
10. Audio System

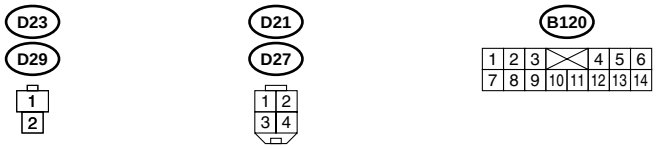
A: SCHEMATIC

1. LHD MODEL



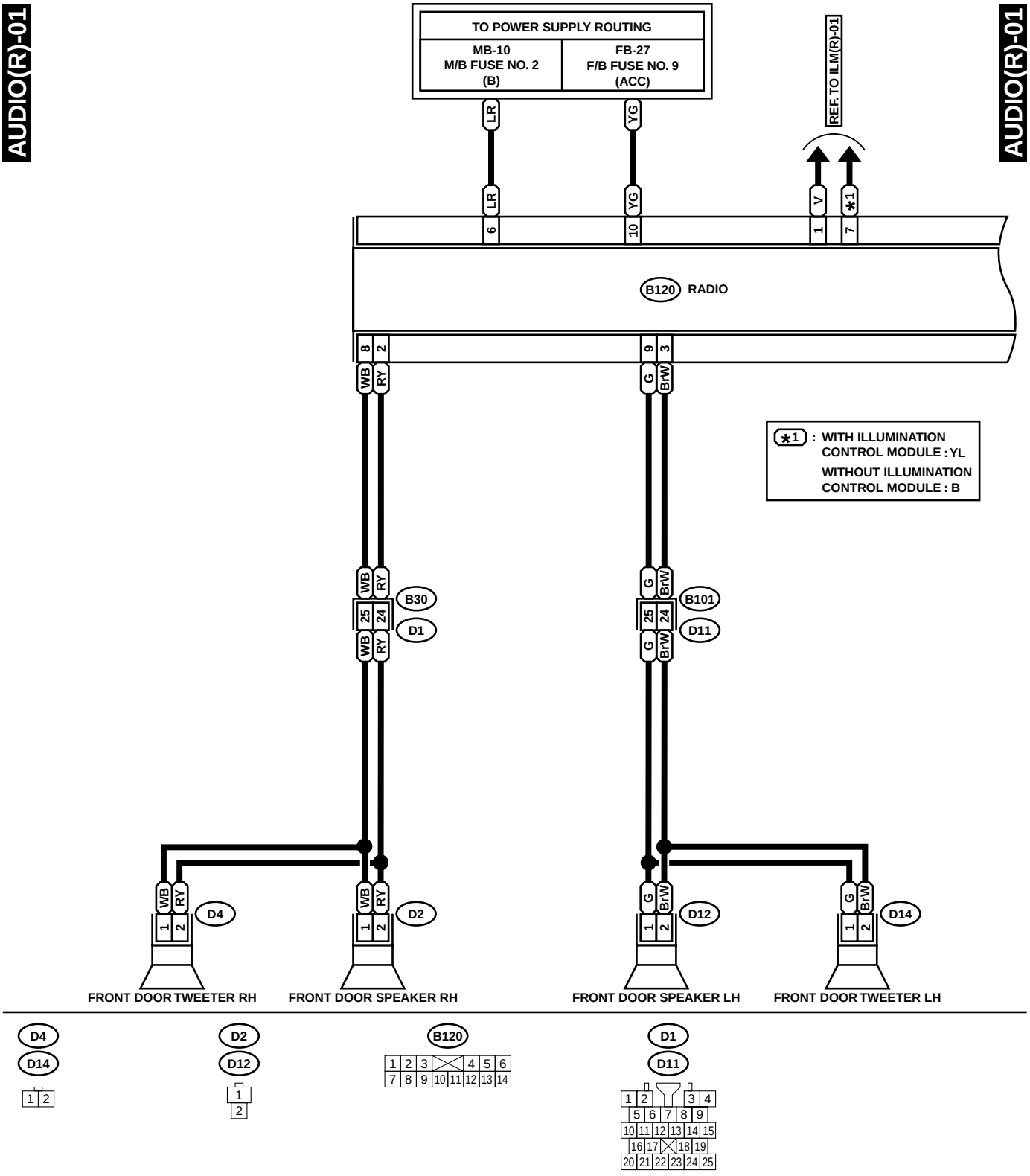
GL76-20A


AUDIO(L)-02
AUDIO(L)-02
B120 RADIO
BRACKET EARTH
B121
12
4
13
5
11
RW
LY
RB
WR
B
B
B265
B269
3
4
D27
D21
D29
D23
1
2
REAR DOOR SPEAKER RH
REAR DOOR SPEAKER LH
E
GR

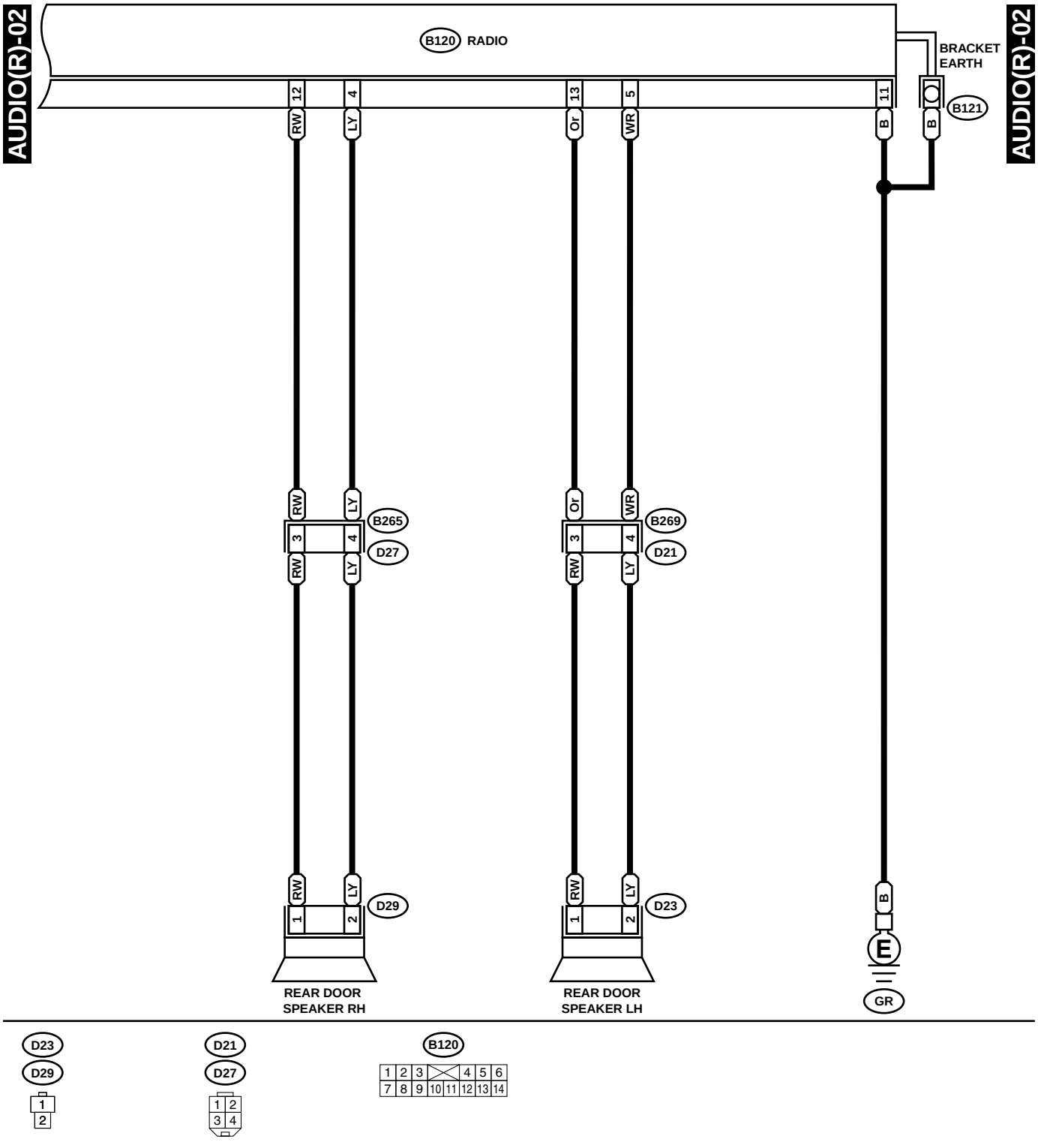

D23
D29
D21
D27
B120
1 2 3 4 5 6
7 8 9 10 11 12 13 14

GL76-20B

2. RHD MODEL



GR76-20A


AUDIO(R)-02
AUDIO(R)-02
B120 RADIO
BRACKET EARTH
B121
12
4
13
5
11
RW
LY
Or
WR
B
B
B265
B269
D27
D21
3
4
1
2
D29
D23
REAR DOOR SPEAKER RH
REAR DOOR SPEAKER LH
E
GR

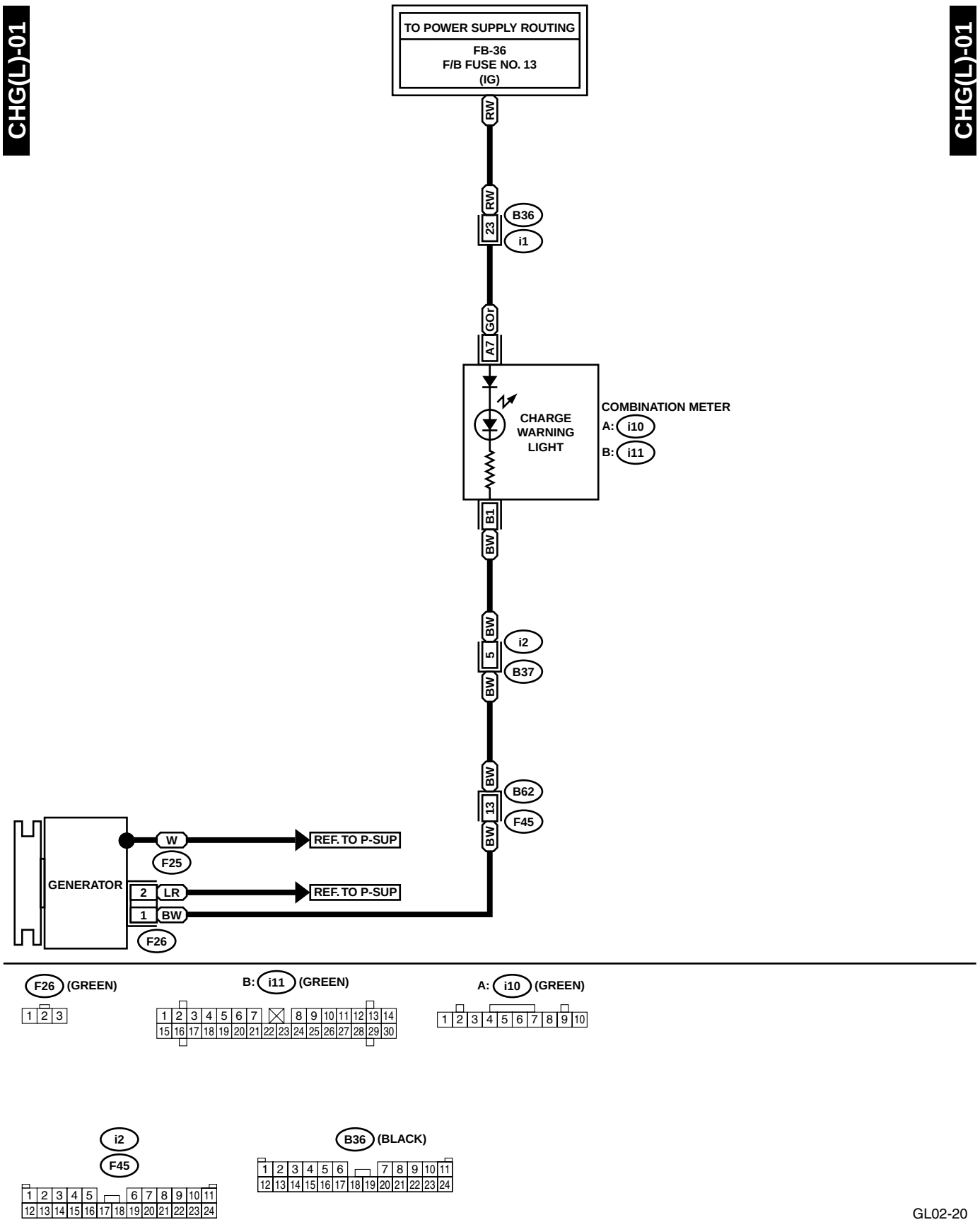
D23
D29
D21
D27
B120
1 2 3 4 5 6
7 8 9 10 11 12 13 14

GR76-20B

11.Charging System

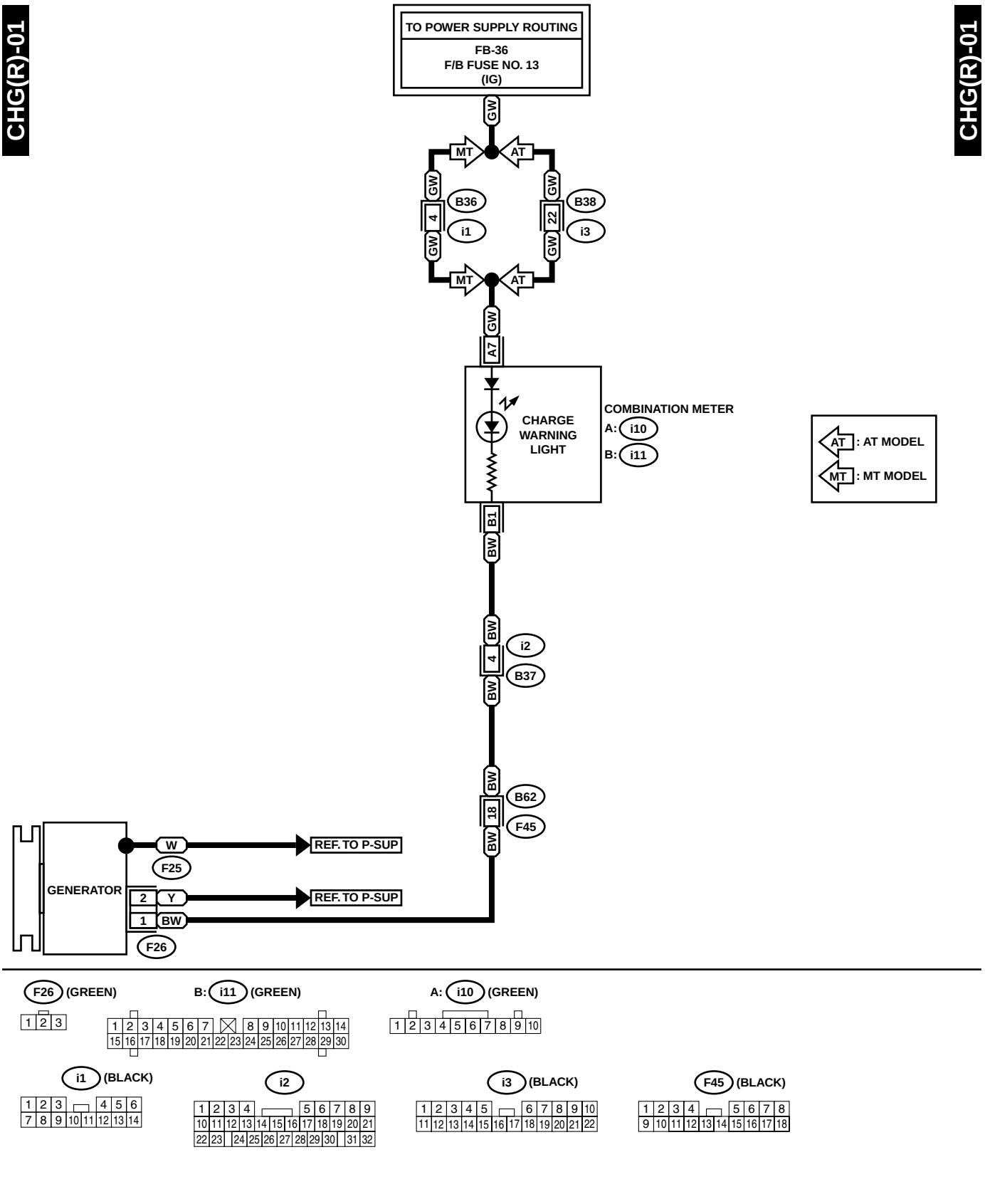
A: SCHEMATIC

1. LHD MODEL



GL02-20

2. RHD MODEL



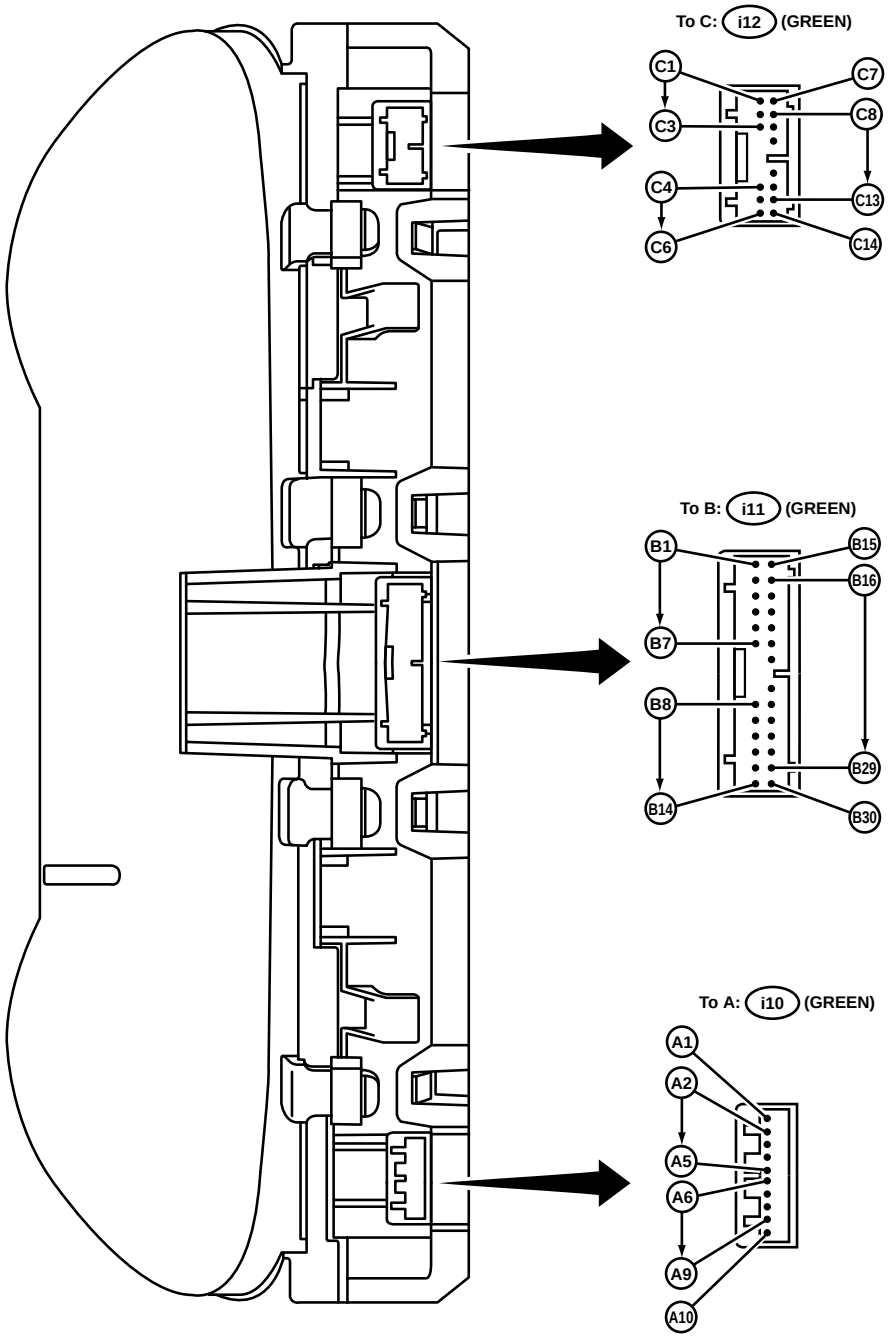
GR02-20

12.Combination Meter

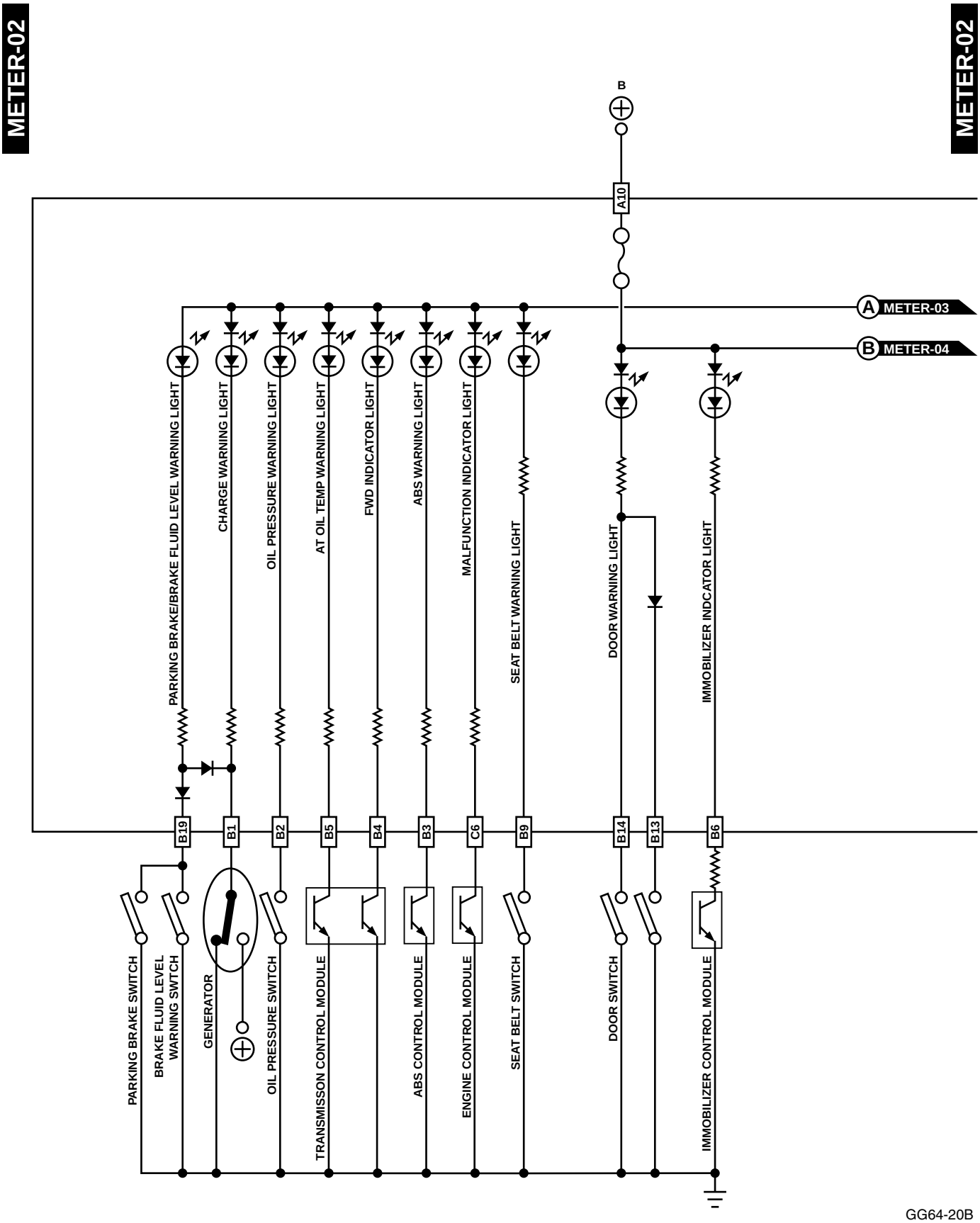
A: SCHEMATIC

METER-01

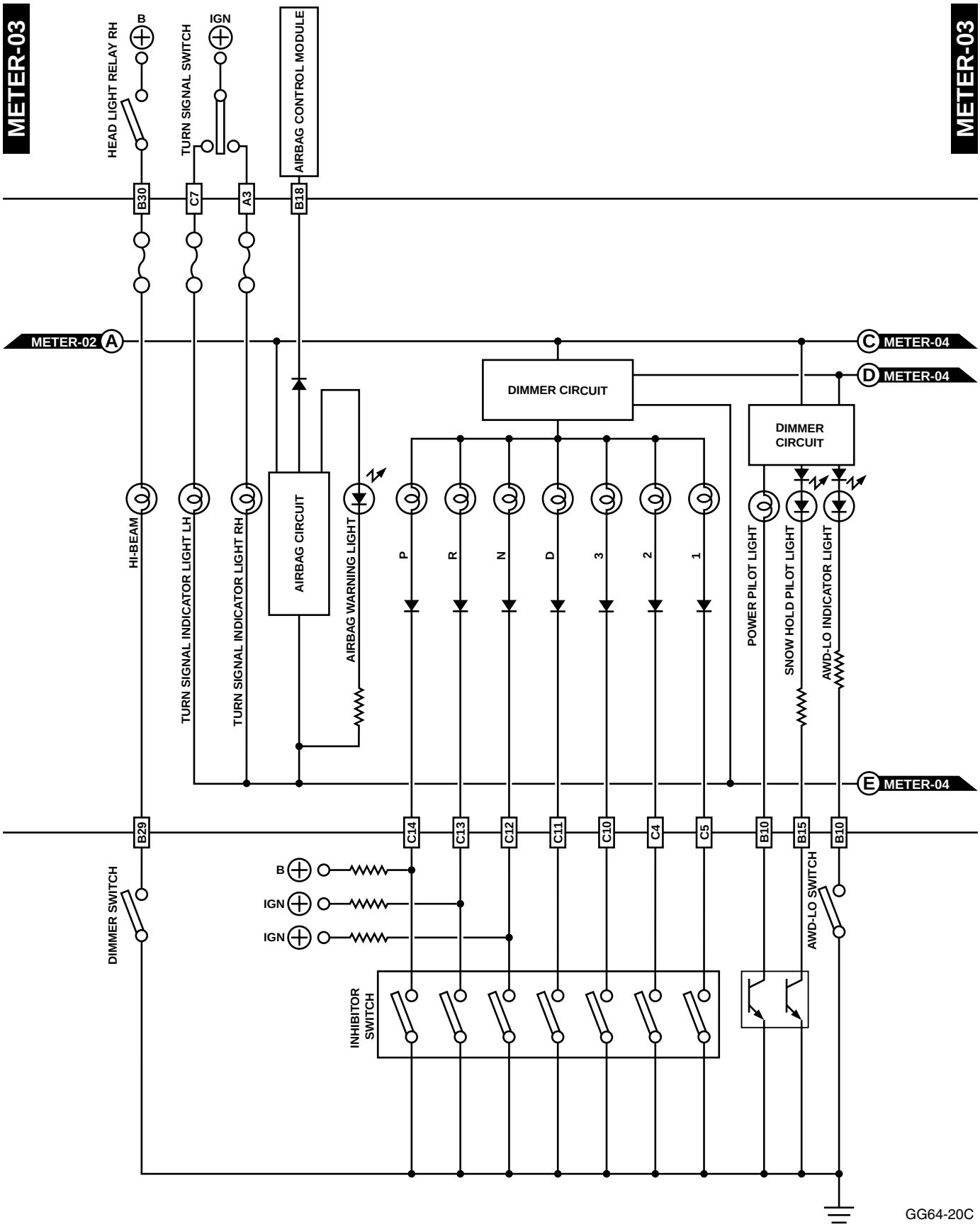
METER-01

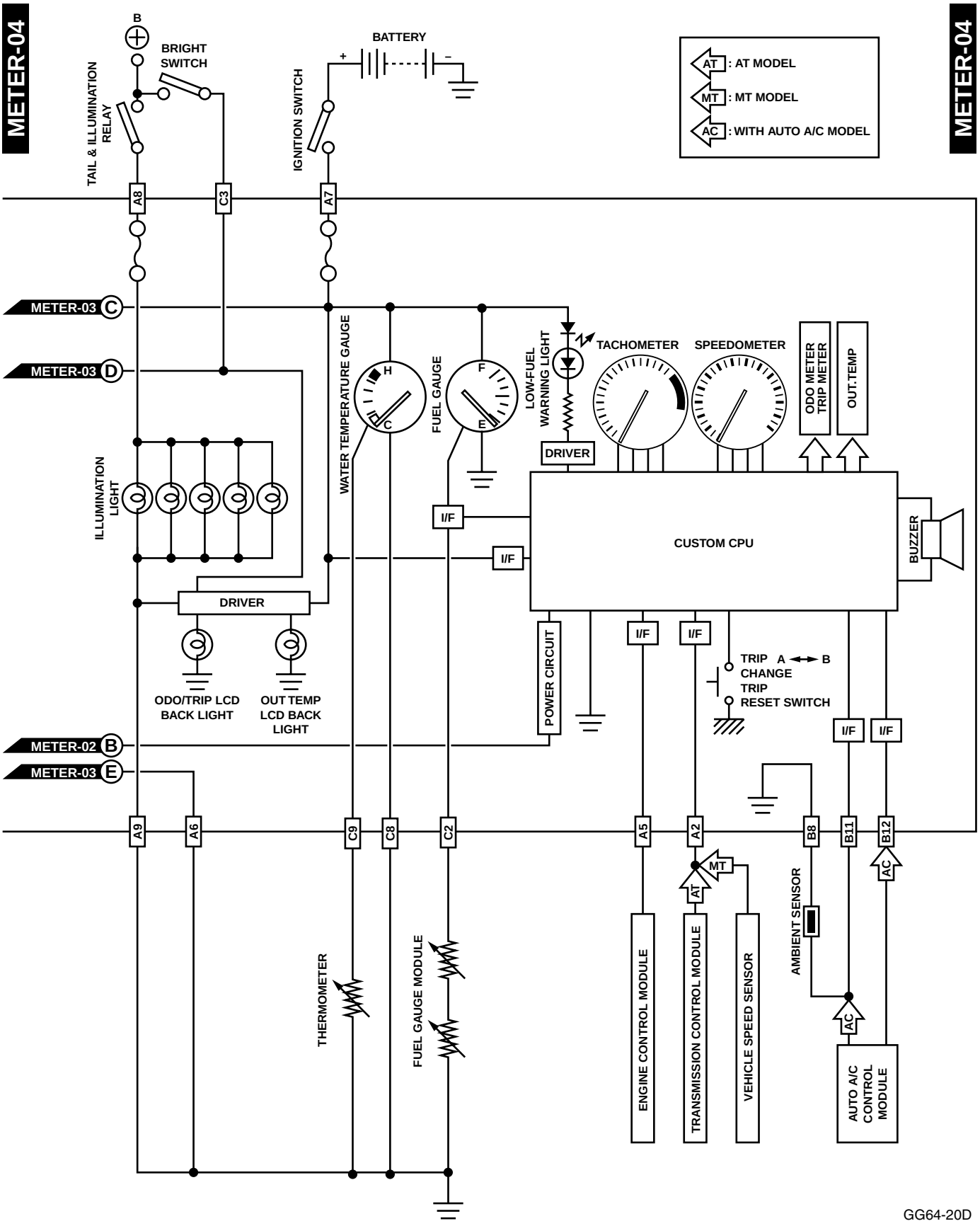


GG64-20A


METER-02
METER-02
B
A10
A METER-03
B METER-04
PARKING BRAKE/BRAKE FLUID LEVEL WARNING LIGHT
CHARGE WARNING LIGHT
OIL PRESSURE WARNING LIGHT
AT OIL TEMP WARNING LIGHT
FWD INDICATOR LIGHT
ABS WARNING LIGHT
MALFUNCTION INDICATOR LIGHT
SEAT BELT WARNING LIGHT
DOOR WARNING LIGHT
IMMOBILIZER INDCATOR LIGHT
B19
B1
B2
B5
B4
B3
C6
B9
B14
B13
B6
PARKING BRAKE SWITCH
BRAKE FLUID LEVEL WARNING SWTCH
GENERATOR
OIL PRESSURE SWITCH
TRANSMISSON CONTROL MODULE
ABS CONTROL MODULE
ENGINE CONTROL MODULE
SEAT BELT SWITCH
DOOR SWITCH
IMMOBILIZER CONTROL MODULE

GG64-20B

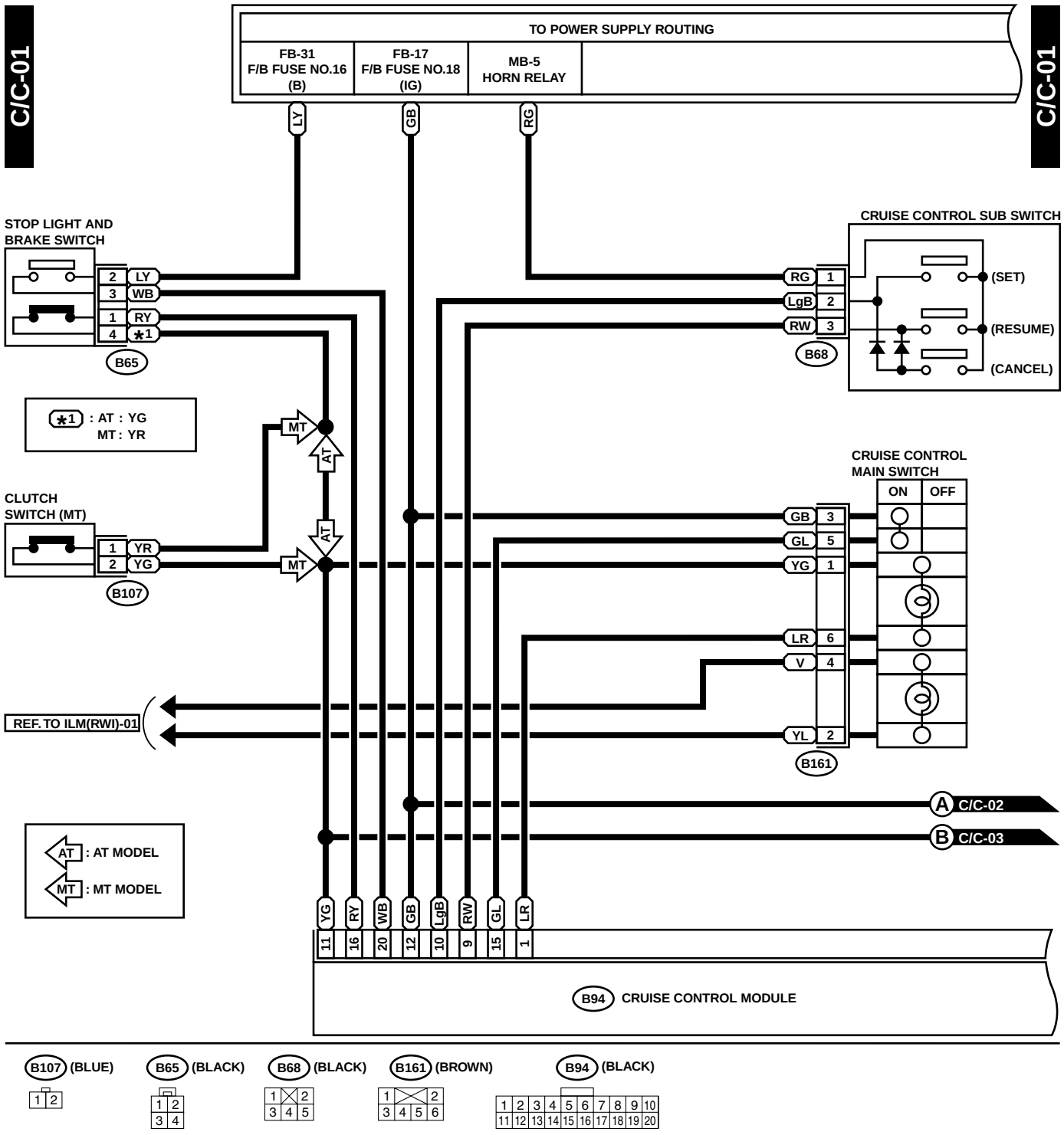

METER-03
METER-03
HEAD LIGHT RELAY RH
B
TURN SIGNAL SWITCH
IGN
AIRBAG CONTROL MODULE
B30
C7
A3
B18
METER-02 A
C METER-04
D METER-04
E METER-04
DIMMER CIRCUIT
DIMMER CIRCUIT
HI-BEAM
TURN SIGNAL INDICATOR LIGHT LH
TURN SIGNAL INDICATOR LIGHT RH
AIRBAG CIRCUIT
AIRBAG WARNING LIGHT
P
R
N
D
3
2
1
POWER PILOT LIGHT
SNOW HOLD PILOT LIGHT
AWD-LO INDICATOR LIGHT
B29
C14
C13
C12
C11
C10
C4
C5
B10
B15
B10
DIMMER SWITCH
B
IGN
IGN
AWD-LO SWITCH
INHIBITOR SWITCH
GG64-20C


METER-04
METER-04
B
BRIGHT SWITCH
TAIL & ILLUMINATION RELAY
BATTERY
IGNITION SWITCH
AT : AT MODEL
MT : MT MODEL
AC : WITH AUTO A/C MODEL
A8
C3
A7
METER-03 C
METER-03 D
WATER TEMPERATURE GAUGE
FUEL GAUGE
LOW-FUEL WARNING LIGHT
TACHOMETER
SPEEDOMETER
ODO METER TRIP METER
OUT.TEMP
ILLUMINATION LIGHT
DRIVER
I/F
CUSTOM CPU
BUZZER
DRIVER
POWER CIRCUIT
TRIP A ↔ B CHANGE
TRIP RESET SWITCH
ODO/TRIP LCD BACK LIGHT
OUT TEMP LCD BACK LIGHT
METER-02 B
METER-03 E
A9
A6
C9
C8
C2
A5
A2
B8
B11
B12
MT
AT
AC
AMBIENT SENSOR
THERMOMETER
FUEL GAUGE MODULE
ENGINE CONTROL MODULE
TRANSMISSION CONTROL MODULE
VEHICLE SPEED SENSOR
AUTO A/C CONTROL MODULE

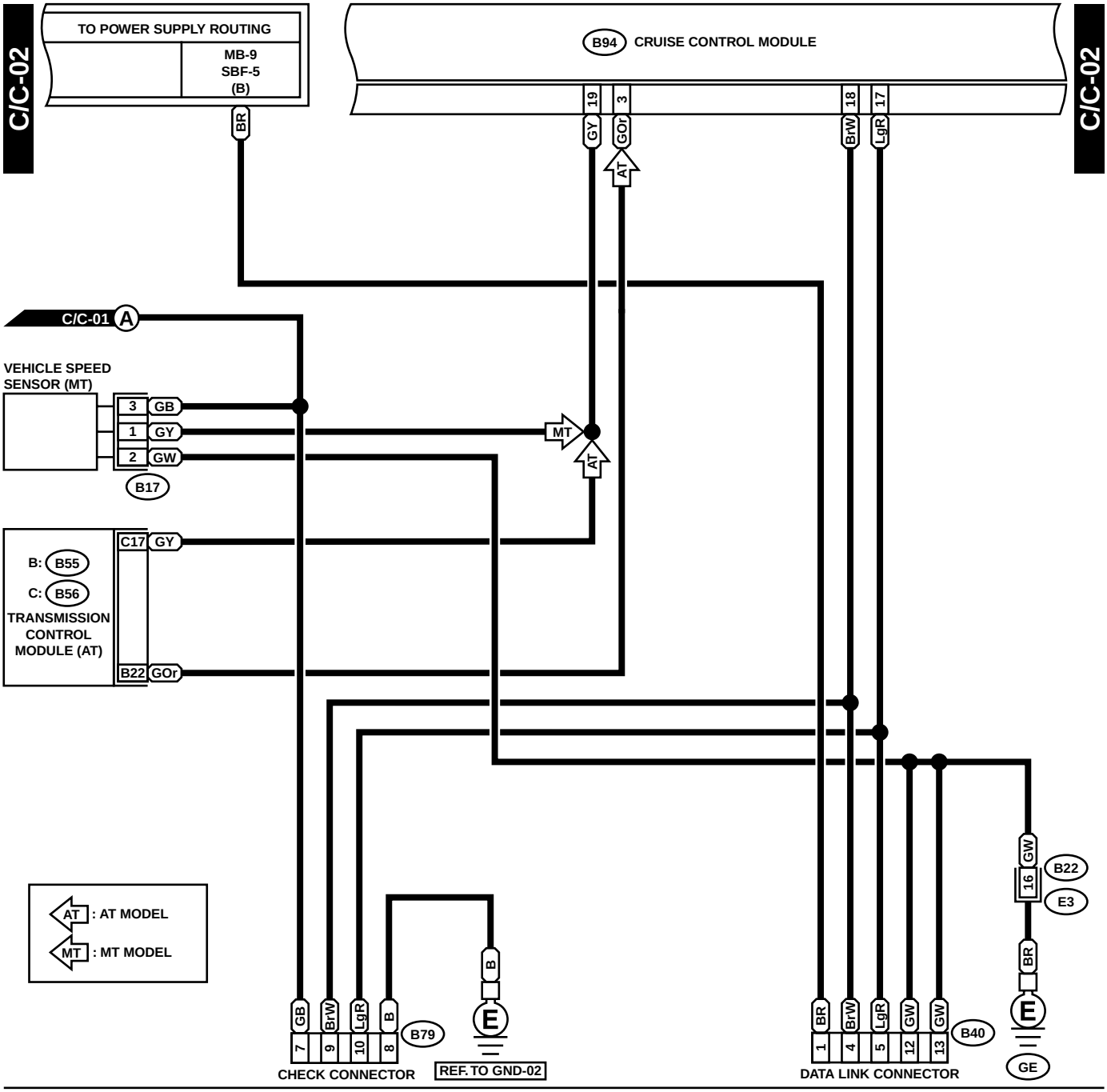
GG64-20D

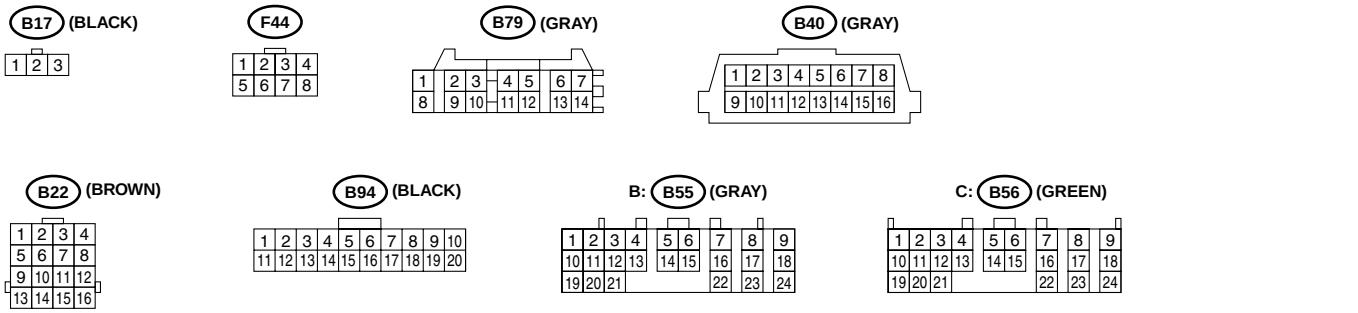
13.Cruise Control System

A: SCHEMATIC

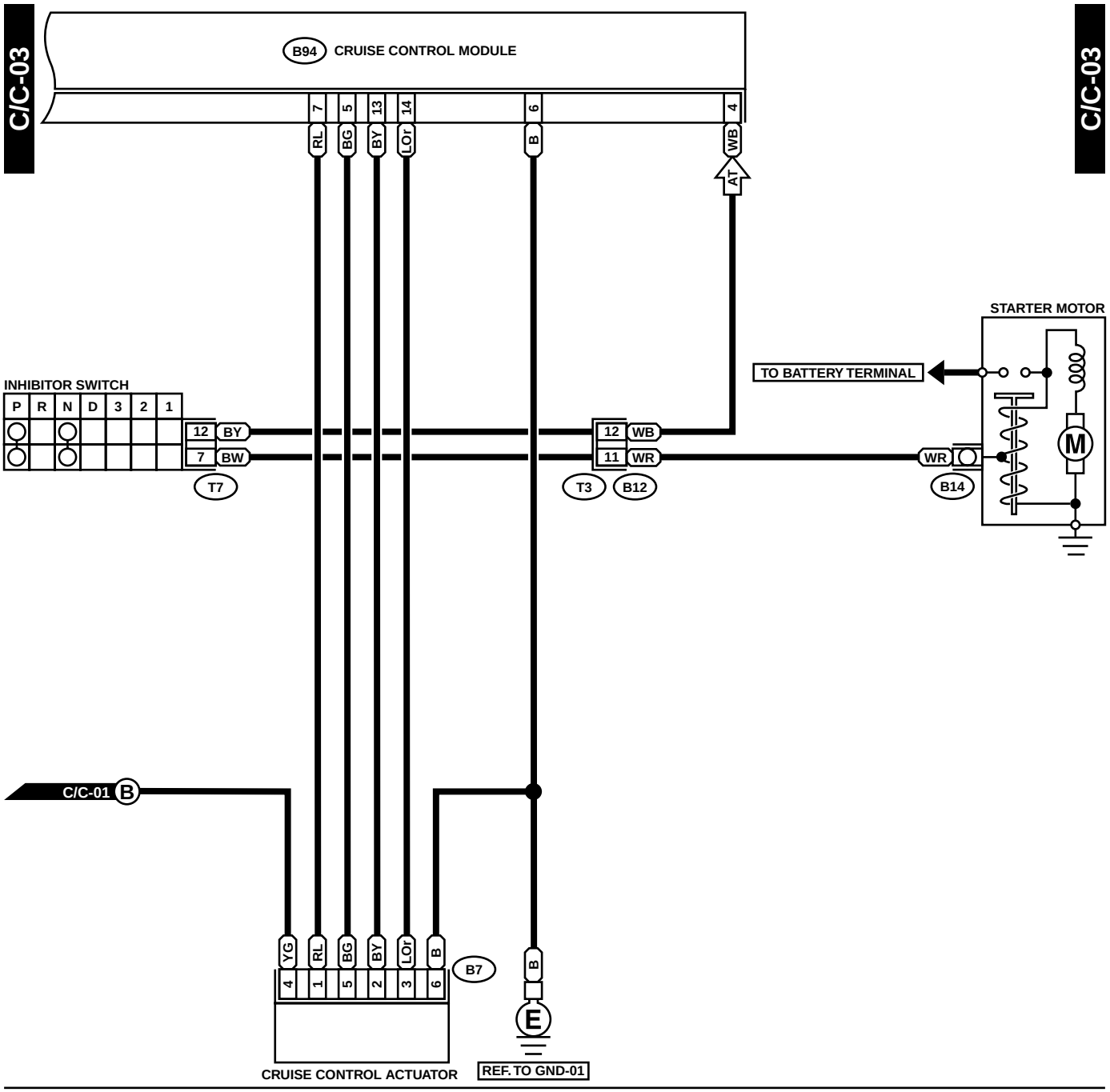


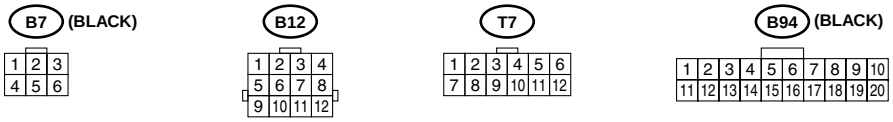
GG71-20A


C/C-02
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
BR
B94 CRUISE CONTROL MODULE
19
3
18
17
GY
GOr
BrW
LgR
AT
C/C-02
C/C-01 A
VEHICLE SPEED SENSOR (MT)
3 GB
1 GY
2 GW
B17
MT
AT
C17 GY
B: B55
C: B56
TRANSMISSION CONTROL MODULE (AT)
B22 GOr
AT : AT MODEL
MT : MT MODEL
GB
BrW
LgR
B
7
9
10
8
B79
B
CHECK CONNECTOR
REF. TO GND-02
BR
BrW
LgR
GW
GW
1
4
5
12
13
B40
DATA LINK CONNECTOR
GW
16
B22
E3
BR
GE


B17 (BLACK)
1 2 3
F44
1 2 3 4
5 6 7 8
B79 (GRAY)
1 2 3 4 5 6 7
8 9 10 11 12 13 14
B40 (GRAY)
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B22 (BROWN)
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
B94 (BLACK)
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
B: B55 (GRAY)
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18
19 20 21 22 23 24
C: B56 (GREEN)
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18
19 20 21 22 23 24

GG71-20B


C/C-03
C/C-03
B94 CRUISE CONTROL MODULE
7 5 13 14 6 4
RL BG BY LOr B WB
AT
STARTER MOTOR
TO BATTERY TERMINAL
INHIBITOR SWITCH
P R N D 3 2 1
12 BY
7 BW
T7
12 WB
11 WR
T3 B12
WR
B14
M
C/C-01 B
YG RL BG BY LOr B
4 1 5 2 3 6
B7
B
E
CRUISE CONTROL ACTUATOR
REF. TO GND-01

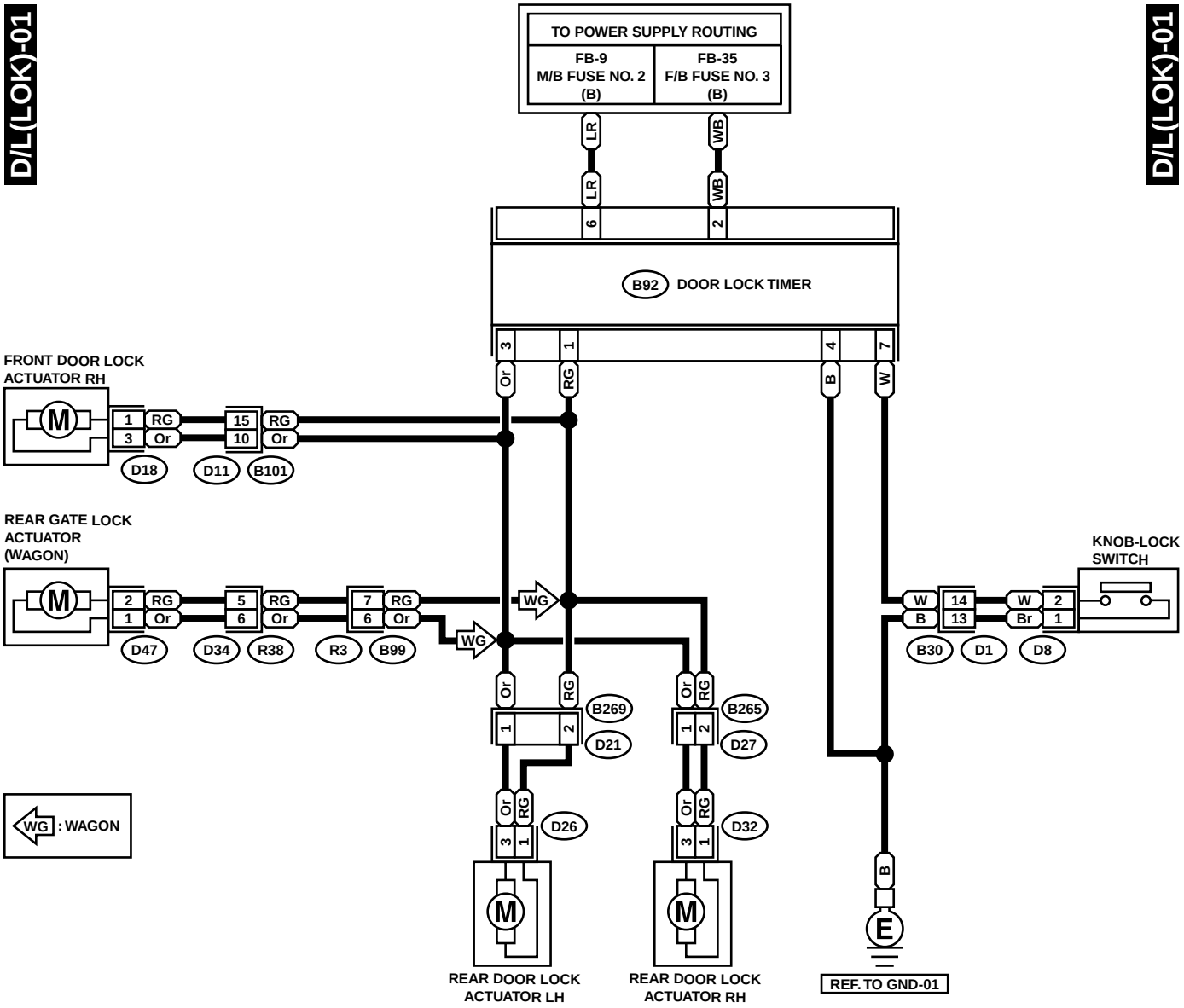

B7 (BLACK)
1 2 3
4 5 6
B12
1 2 3 4
5 6 7 8
9 10 11 12
T7
1 2 3 4 5 6
7 8 9 10 11 12
B94 (BLACK)
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

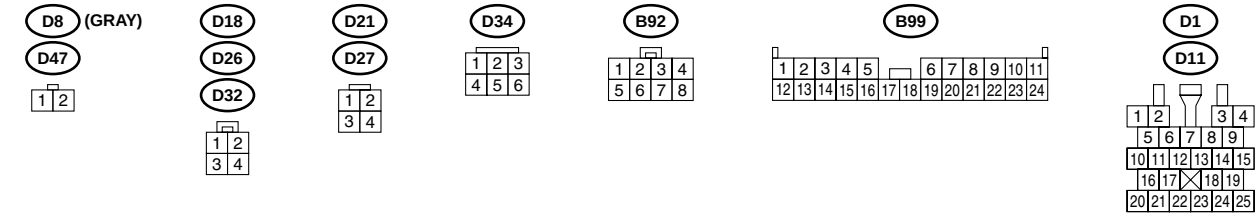
GG71-20C

14.Door Lock System

A: SCHEMATIC

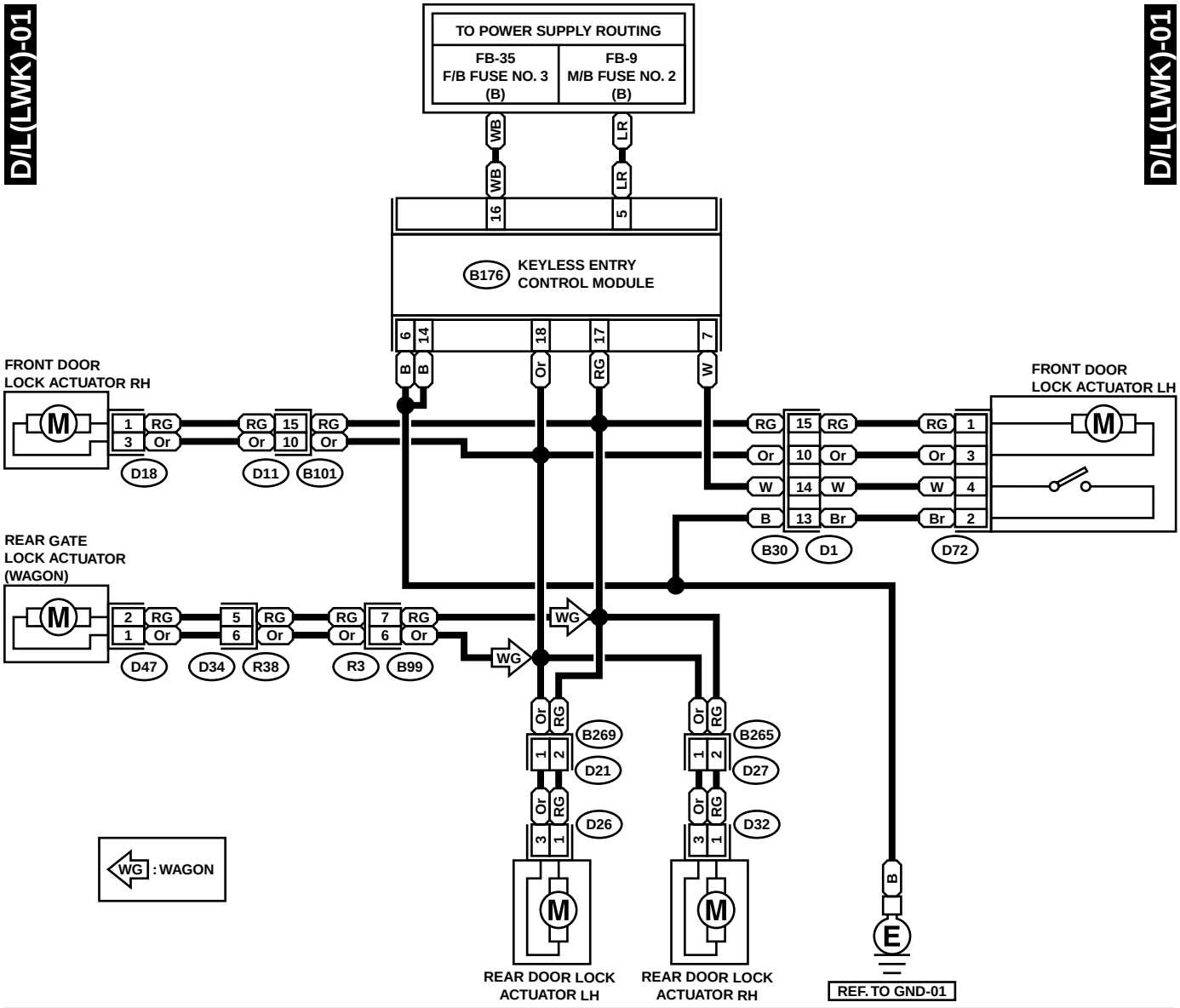
1. LHD WITHOUT KEYLESS ENTRY MODEL

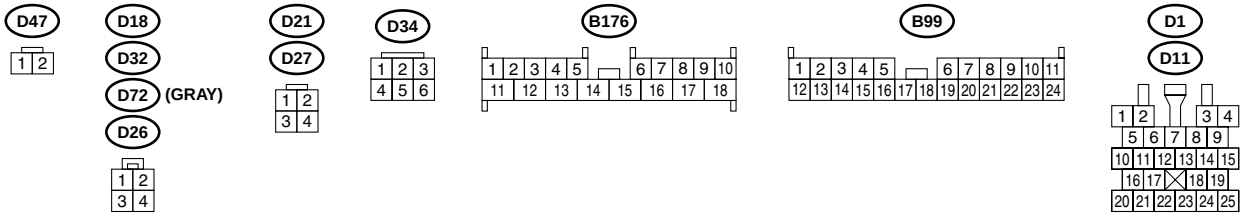




GL73-21

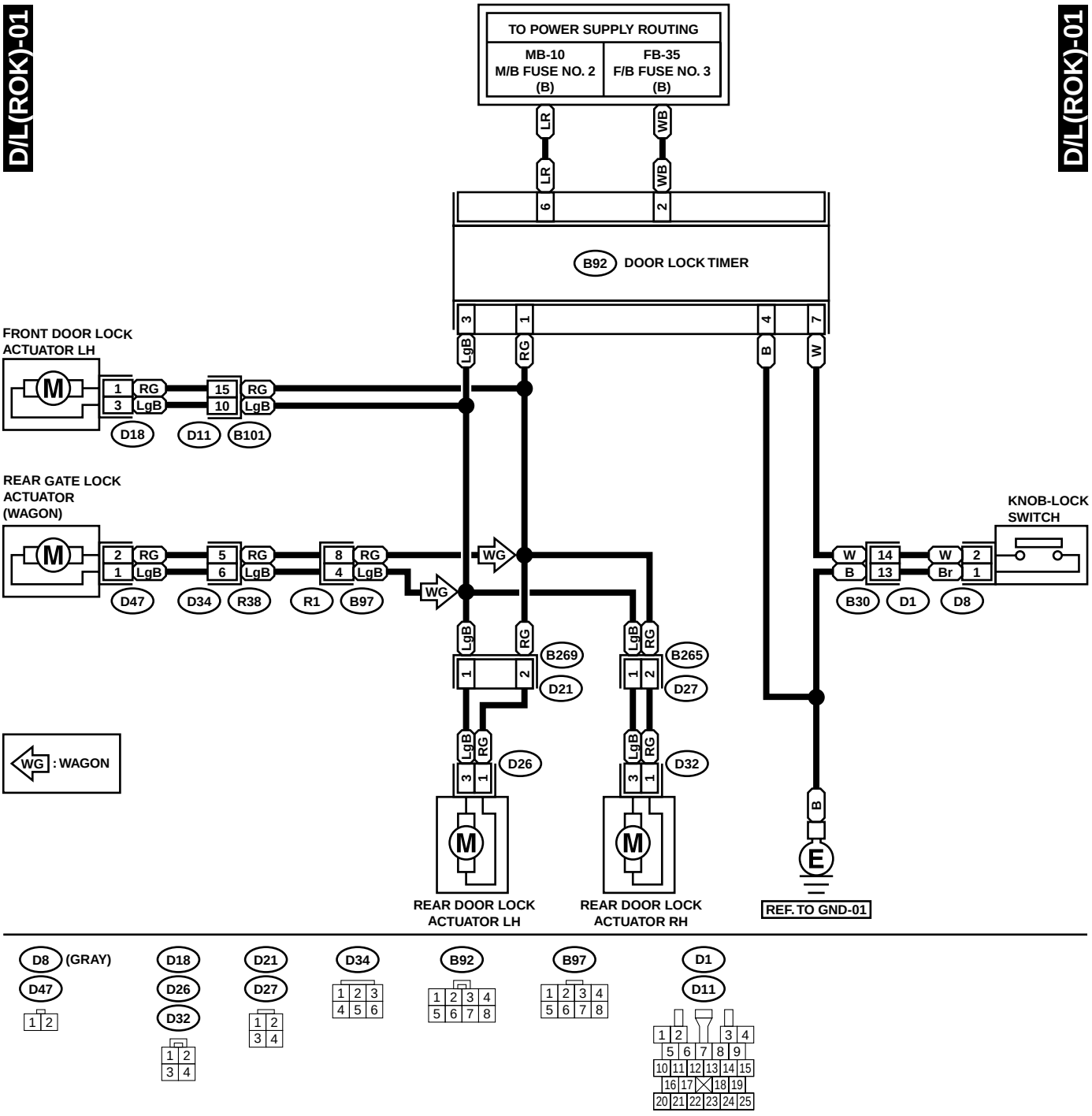
2. LHD WITH KEYLESS ENTRY MODEL





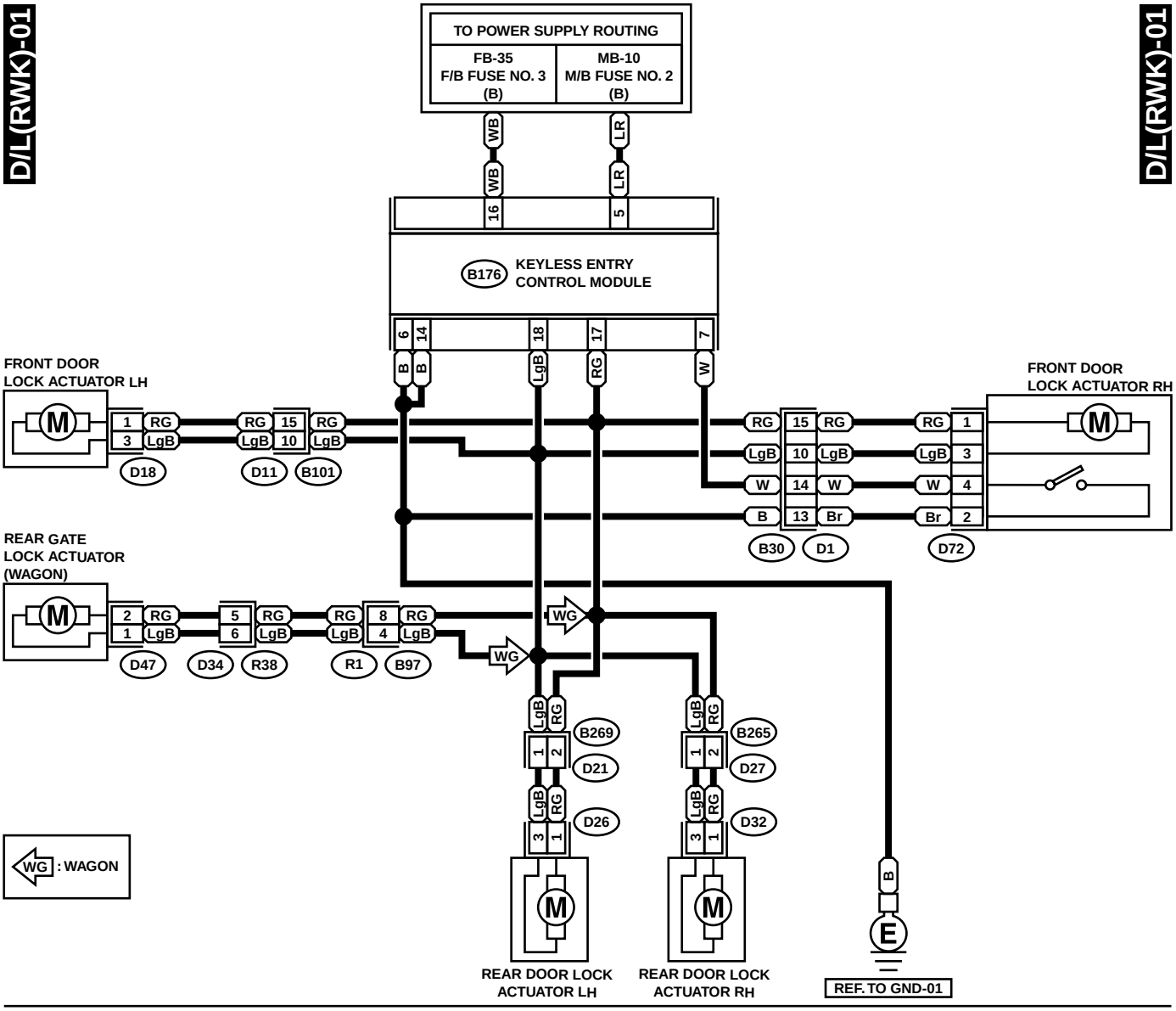
GL73-20

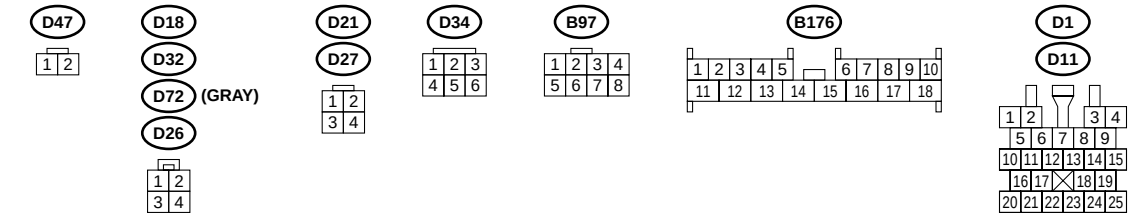
3. RHD WITHOUT KEYLESS ENTRY MODEL



GR73-21

4. RHD WITH KEYLESS ENTRY MODEL





GR73-20