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.

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.

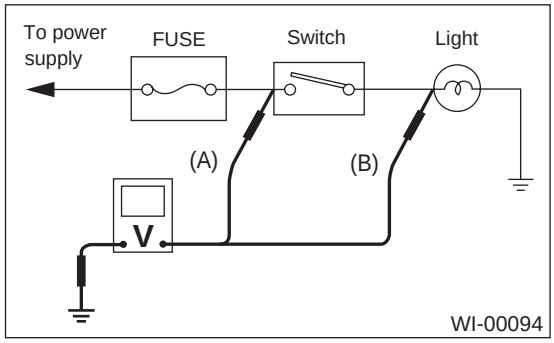
5. CONFIRMATION OF SYSTEM OPERATION

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

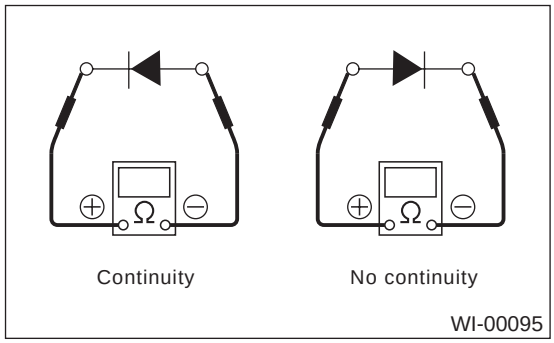
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector (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.

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

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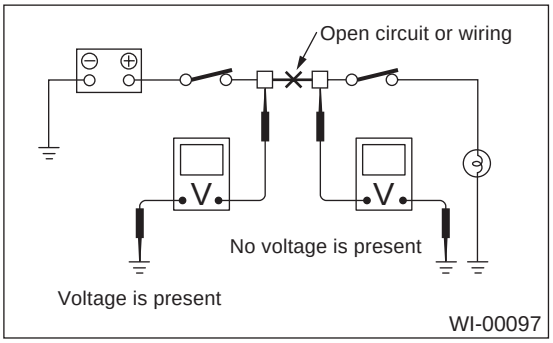
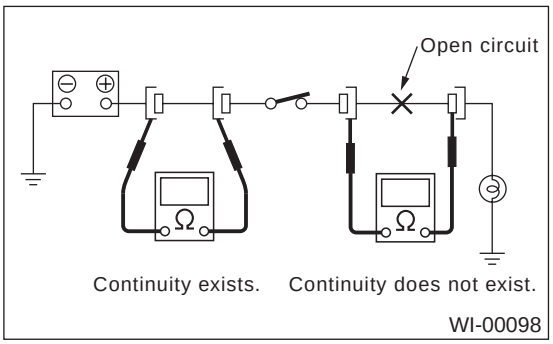
3. HOW TO DETERMINE AN OPEN CIRCUIT

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.

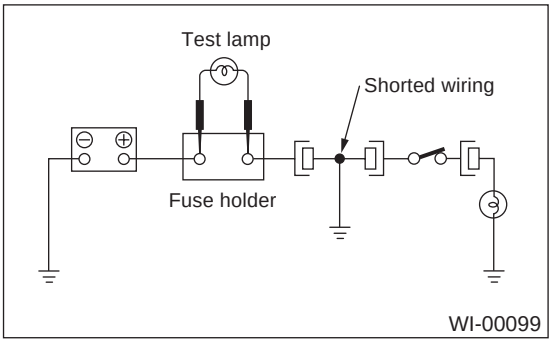


2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.

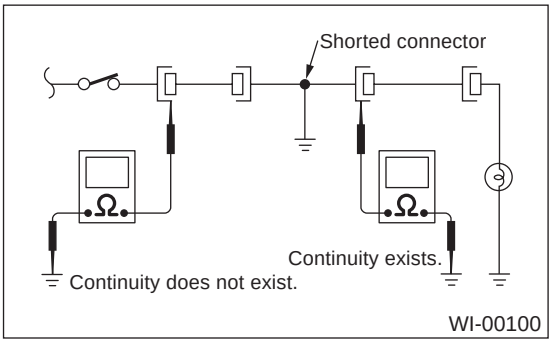


4. HOW TO DETERMINE A SHORT CIRCUIT

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.

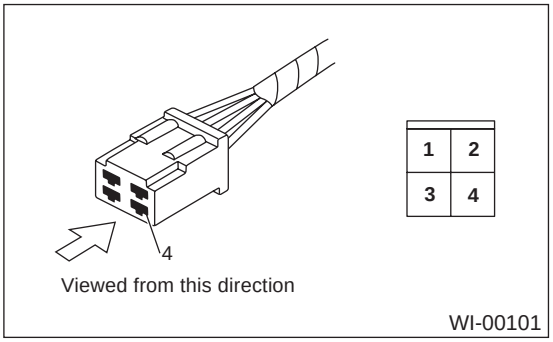


C: HOW TO READ WIRING DIAGRAMS

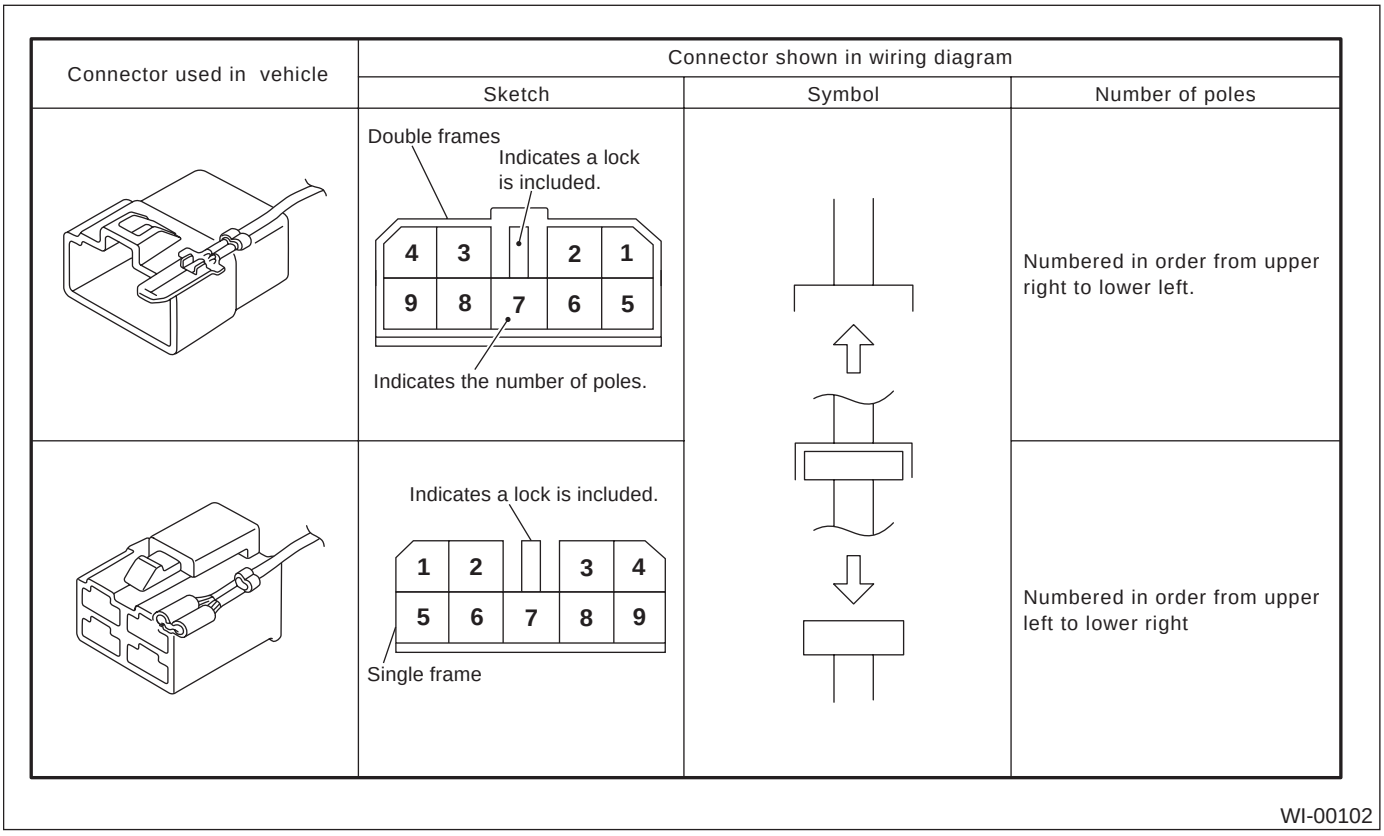
1. WIRING DIAGRAM

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:

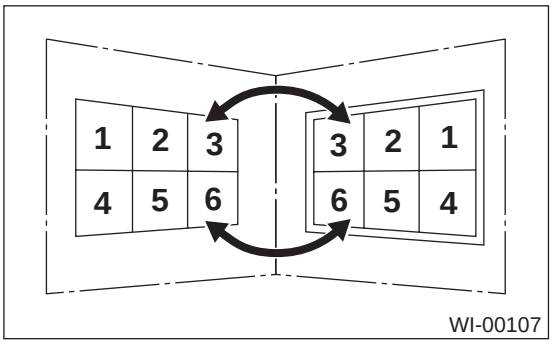
• Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



• 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.

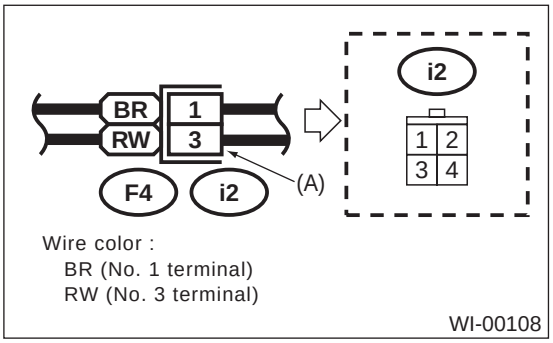


• When one set of connectors is viewed from the front side, the pole numbers of one connector are symmetrical to those of the other. When these two connectors are connected as a unit, the poles which have the same number are joined.

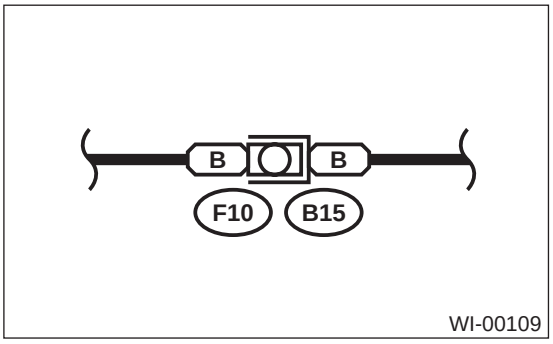


• Electrical wiring harness:
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.
• The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal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

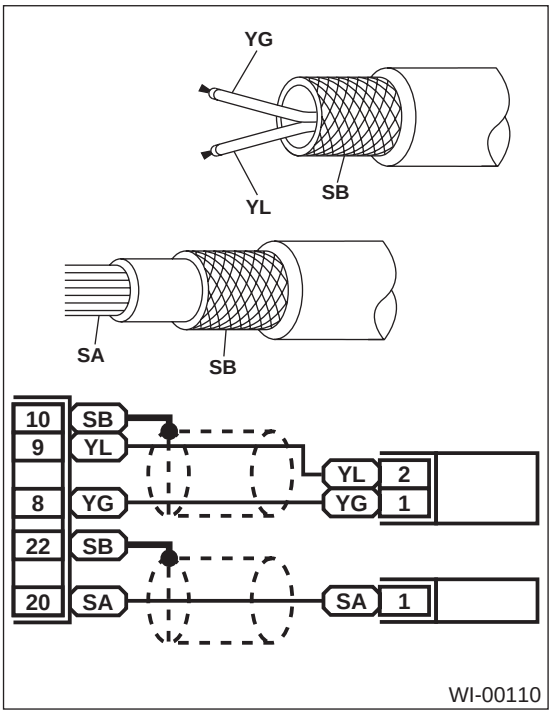


• In wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

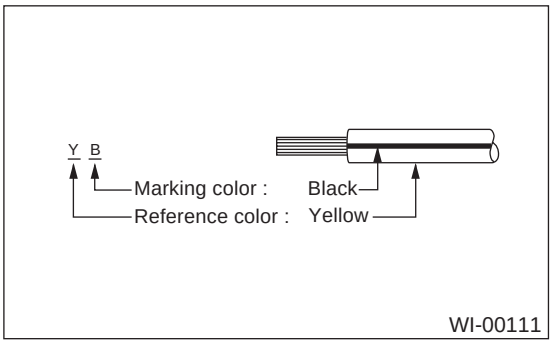


• The following color codes are used to indicate the colors of the wires used.

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.



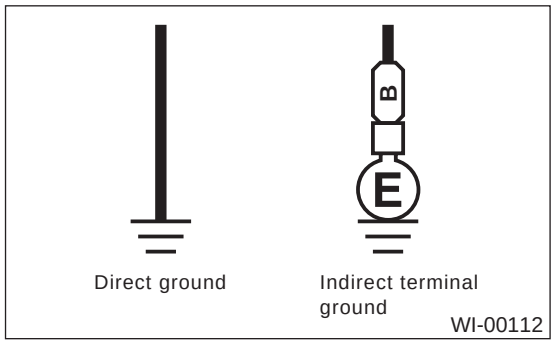
• The table lists the nominal sectional areas and allowable currents of the wires.

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.

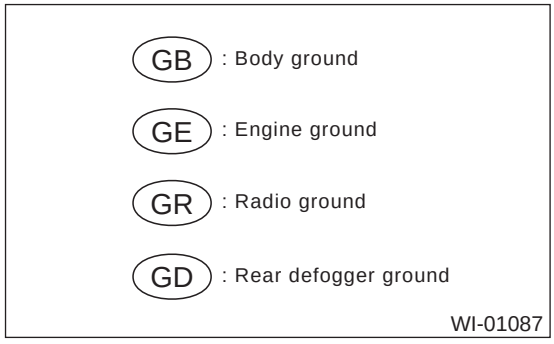
Nominal sectional area mm^2	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32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

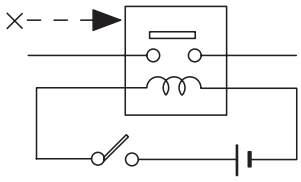
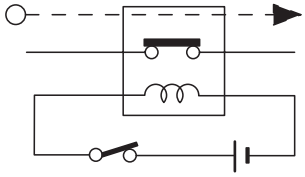
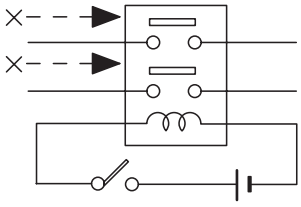
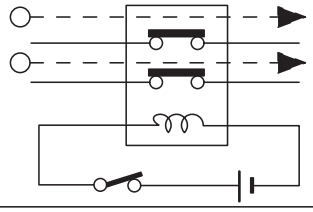
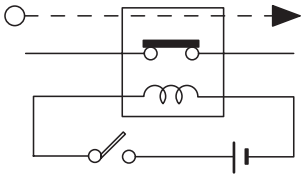
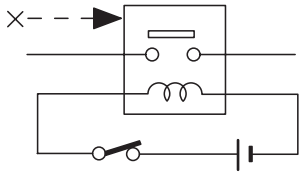
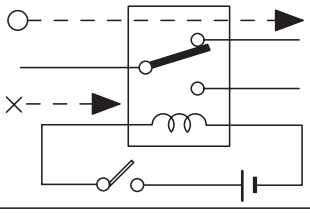
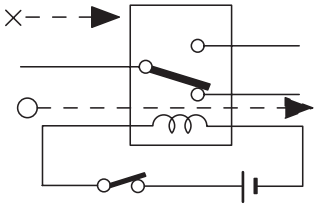


• The ground points shown in the wiring diagram refer to the following:

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.

Relay type		Energizing circuit OFF	Energizing circuit ON
Normally-open type	4-pole		
	6-pole		
Normally-closed type	4-pole		
Mixed type	6-pole		

Key to symbols:

○ ⟶ : Current flows.

× ⟶ : Current does not flow.

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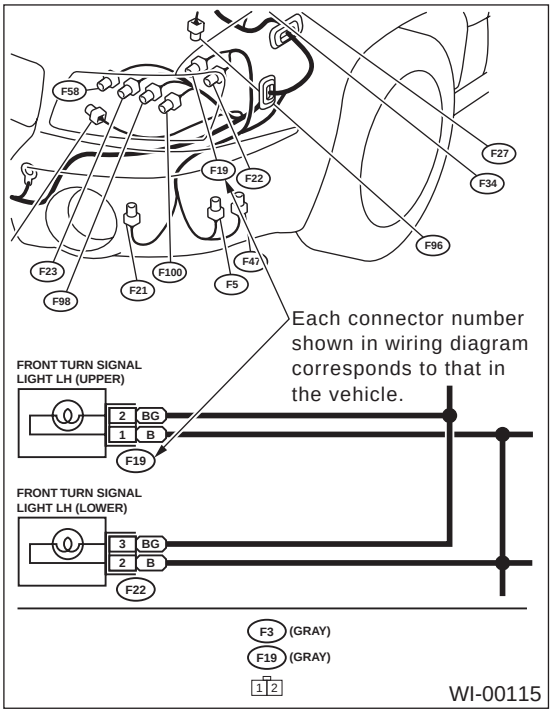
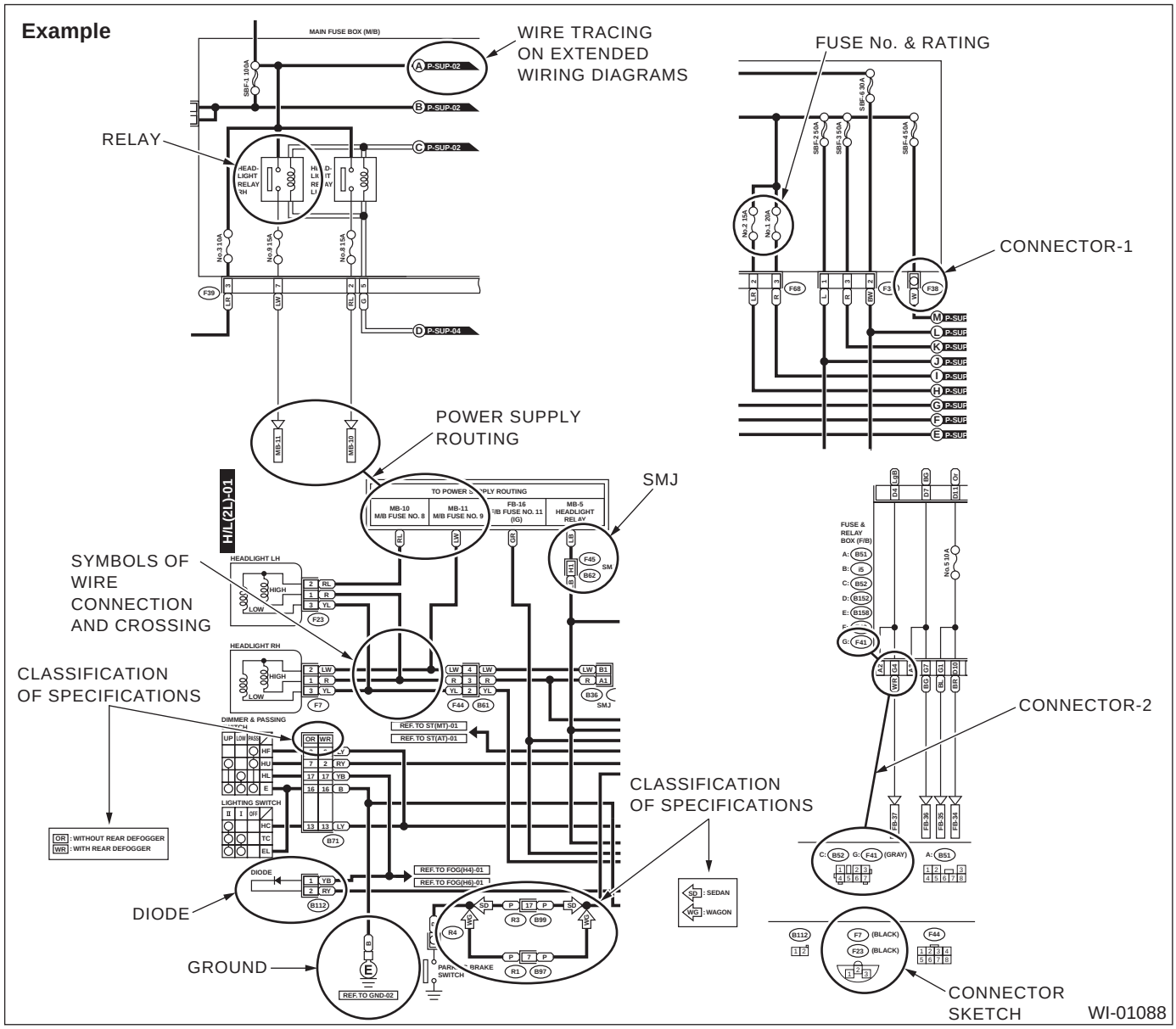
• Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a “F” for F8, “i” for i16, etc.) and the type of wiring harness.
The first character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



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.

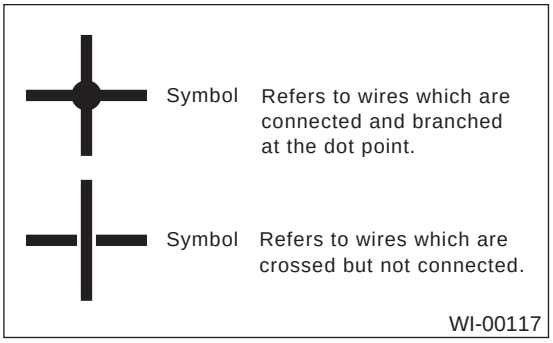
8. DIODE

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: ABBREVIATION IN WIRING DIAGRAMS

Abbr.	Full name
ABS	Antilock Brake System
ACC	Accessory
A/C	Air Conditioning
AD	Auto Down
AT	Automatic Transmission
AU	Auto Up
A/B	Air Bag
A/F	Air Fuel
ATF	Automatic Transmission Fluid
AWD	All Wheel Drive
B	Battery
D	Drive Range
DN	Down
E	Ground
ELR	Emergency Locking Retractor
F/B	Fuse & Joint Box
FL1.5	Fusible Link 1.5 mm^2
H/L	Head Light
I/F	Interface
IG	Ignition
Illumi.	Illumination
INT	Intermittent
L/C	Low Clutch
LCD	Liquid Crystal Display
LH	Left Hand
Lo	Low
M	Motor
M/B	Main Fuse Box
MG	Magnet
Mi	Middle
MT	Manual Transmission
N	Neutral Range
OP	Optional Parts
P	Parking Range
PASS	Passing
R	Reverse Range
RH	Right Hand
SBF	Slow Blow Fuse
ST	Starter
SW	Switch
UP	Up
WASH	Washer

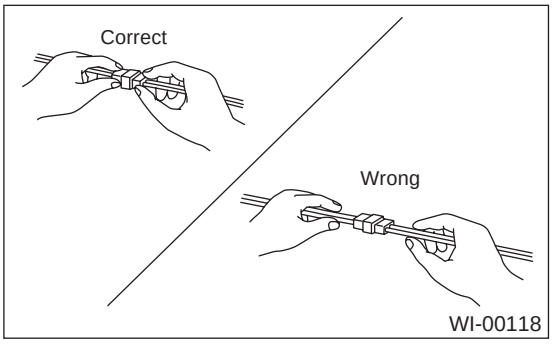
2. Working Precautions

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

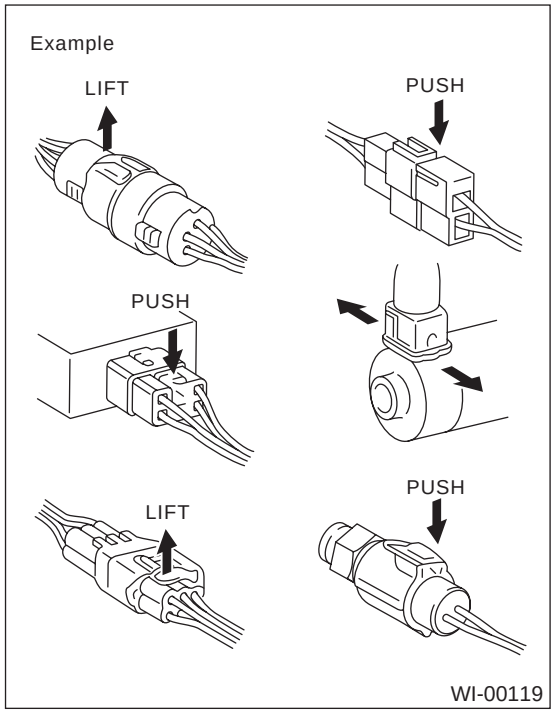
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running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

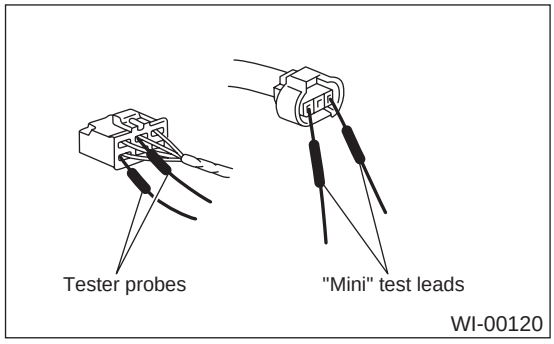
1) The battery cable must be disconnected from the battery's (–) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts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



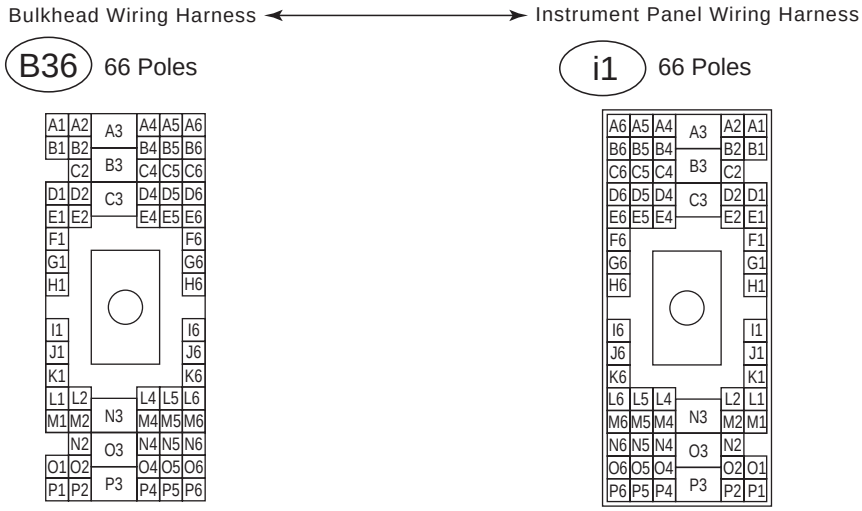
7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts.
Handle them with care so that they are not dropped or mishandled.

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



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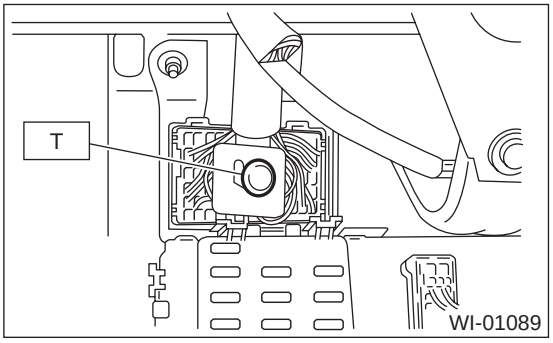
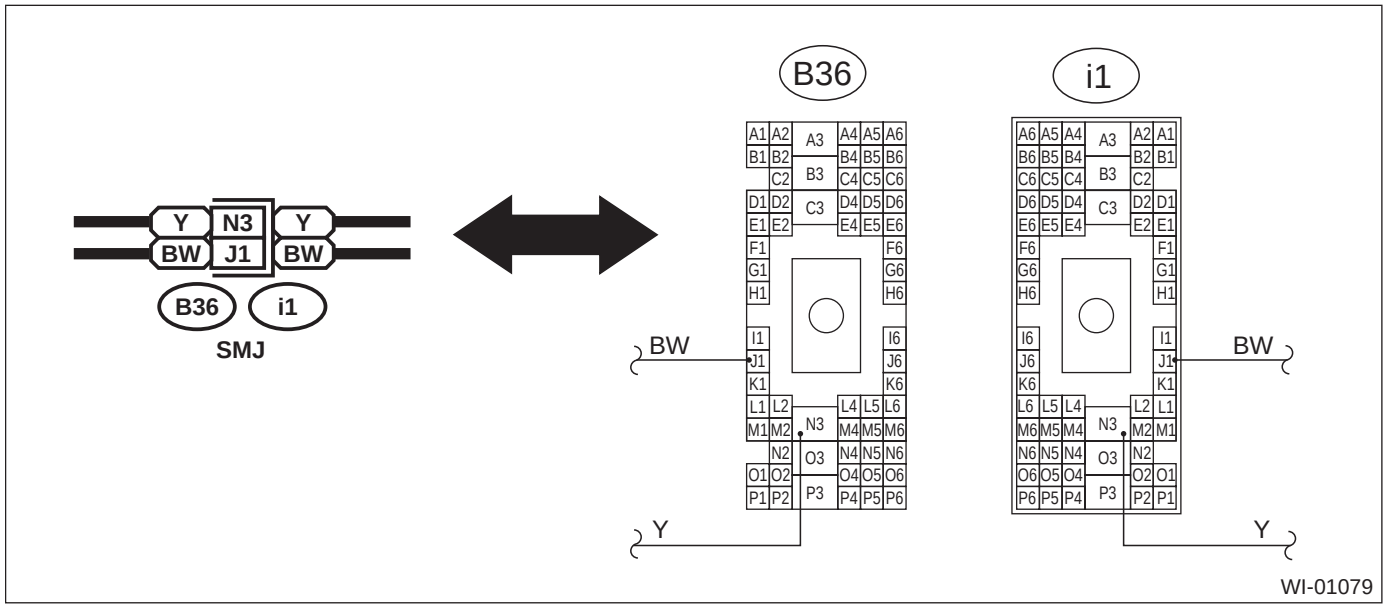
C: INSTALLATION



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



MEMO:

4. Power Supply Routing

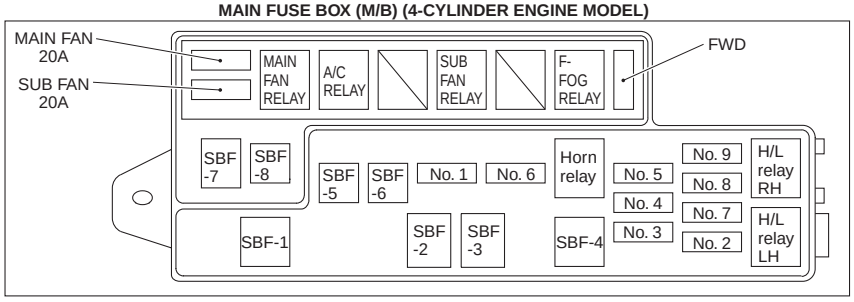
A: SCHEMATIC

1. LHD MODEL

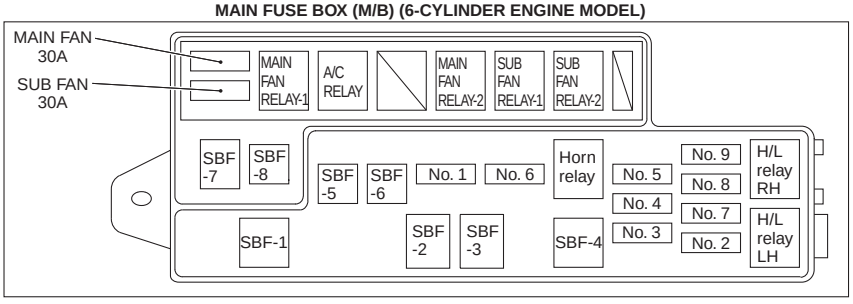
P-SUP(L)-01

P-SUP(L)-01

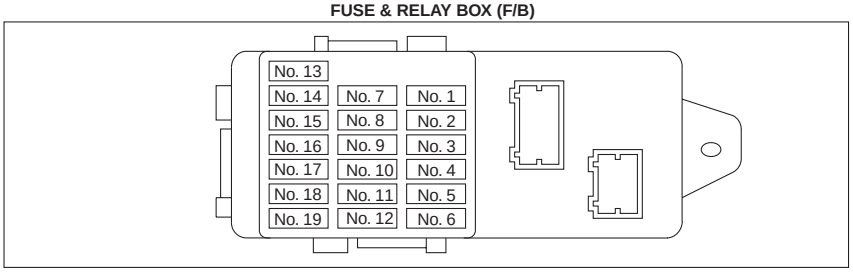
MAIN FUSE BOX (M/B) (4-CYLINDER ENGINE MODEL)



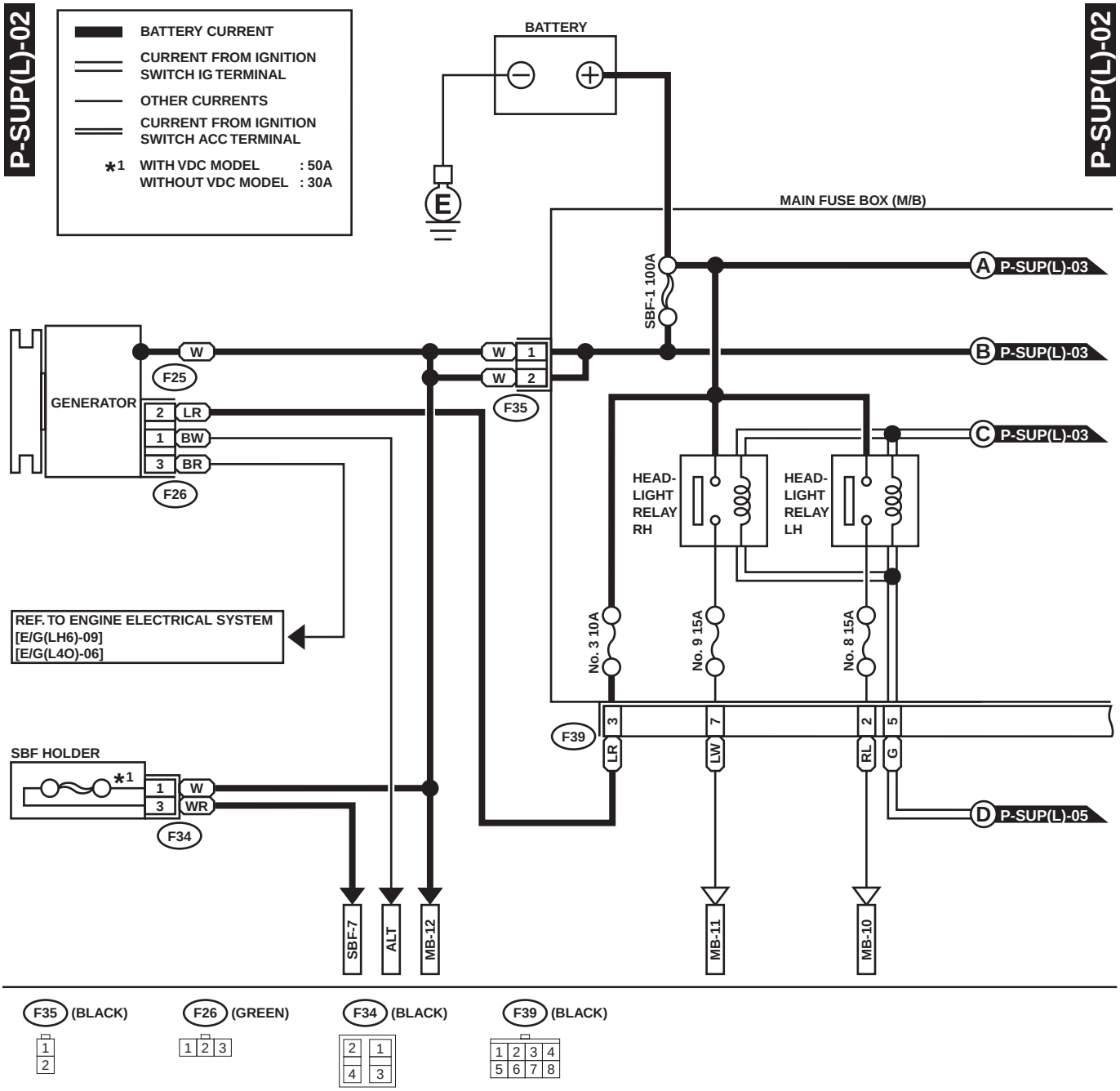
MAIN FUSE BOX (M/B) (6-CYLINDER ENGINE MODEL)



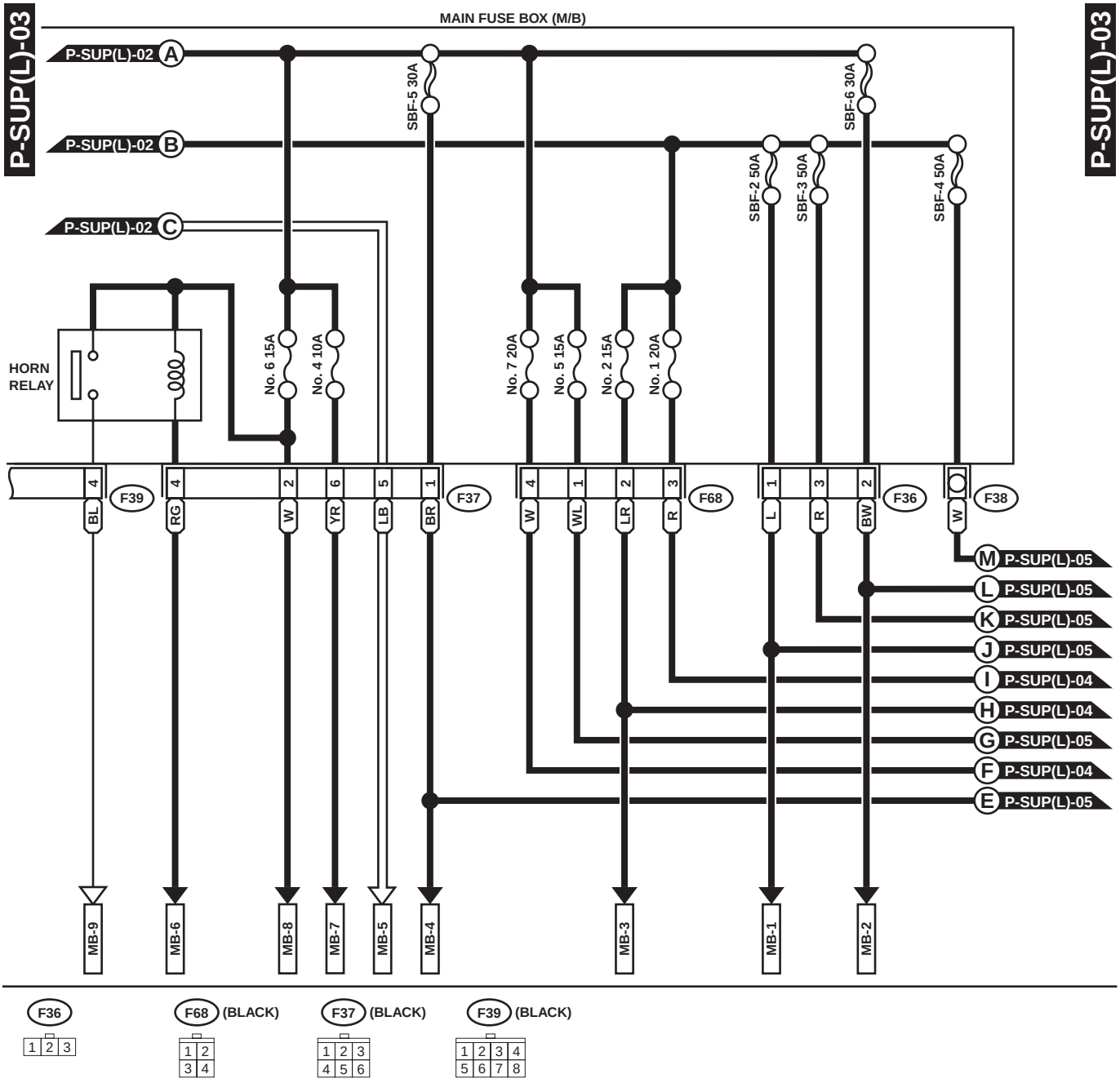
FUSE & RELAY BOX (F/B)



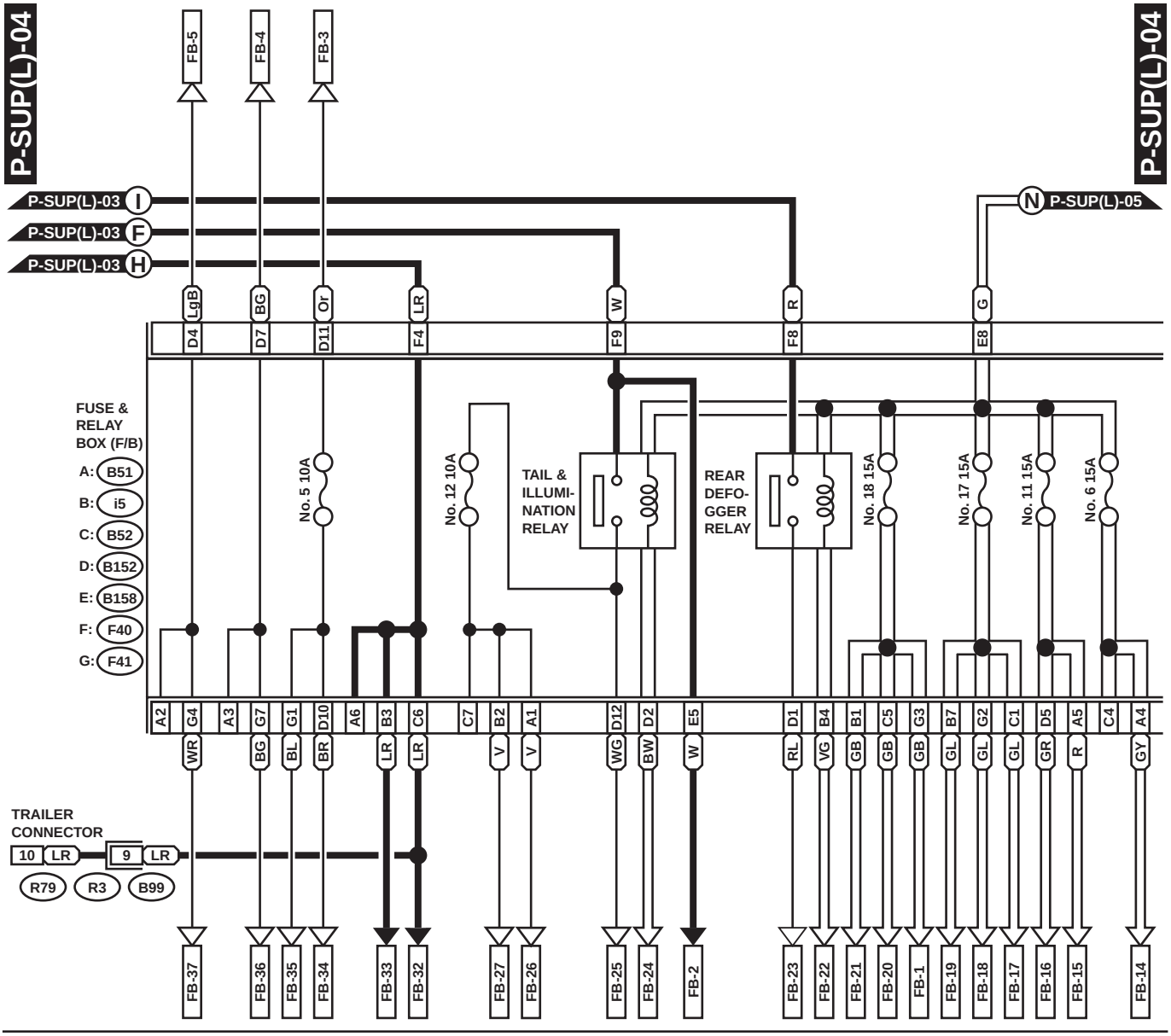
WI-01054


P-SUP(L)-02
BATTERY CURRENT
CURRENT FROM IGNITION SWITCH IG TERMINAL
OTHER CURRENTS
CURRENT FROM IGNITION SWITCH ACC TERMINAL
*1 WITH VDC MODEL : 50A
WITHOUT VDC MODEL : 30A
BATTERY
E
MAIN FUSE BOX (M/B)
SBF-1 100A
A P-SUP(L)-03
B P-SUP(L)-03
C P-SUP(L)-03
D P-SUP(L)-05
GENERATOR
W
F25
2 LR
1 BW
3 BR
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
REF. TO ENGINE ELECTRICAL SYSTEM
[E/G(LH6)-09]
[E/G(L4O)-06]
SBF HOLDER
*1
1 W
3 WR
F34
SBF-7
ALT
MB-12
MB-11
MB-10
F35 (BLACK)
F26 (GREEN)
F34 (BLACK)
F39 (BLACK)

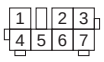
WI-00739


P-SUP(L)-03
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
LB
BR
WL
LR
R
L
BW
M P-SUP(L)-05
L P-SUP(L)-05
K P-SUP(L)-05
J P-SUP(L)-05
I P-SUP(L)-04
H P-SUP(L)-04
G P-SUP(L)-05
F P-SUP(L)-04
E P-SUP(L)-05
MB-9
MB-6
MB-8
MB-7
MB-5
MB-4
MB-3
MB-1
MB-2
F36
F68 (BLACK)
F37 (BLACK)
F39 (BLACK)

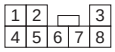
WI-00740



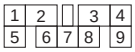
C: B52
G: F41 (GRAY)



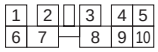
A: B51



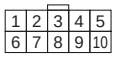
F: F40 (BROWN)



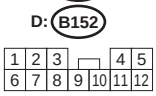
E: B158 (GRAY)



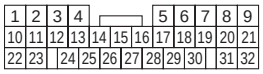
R79



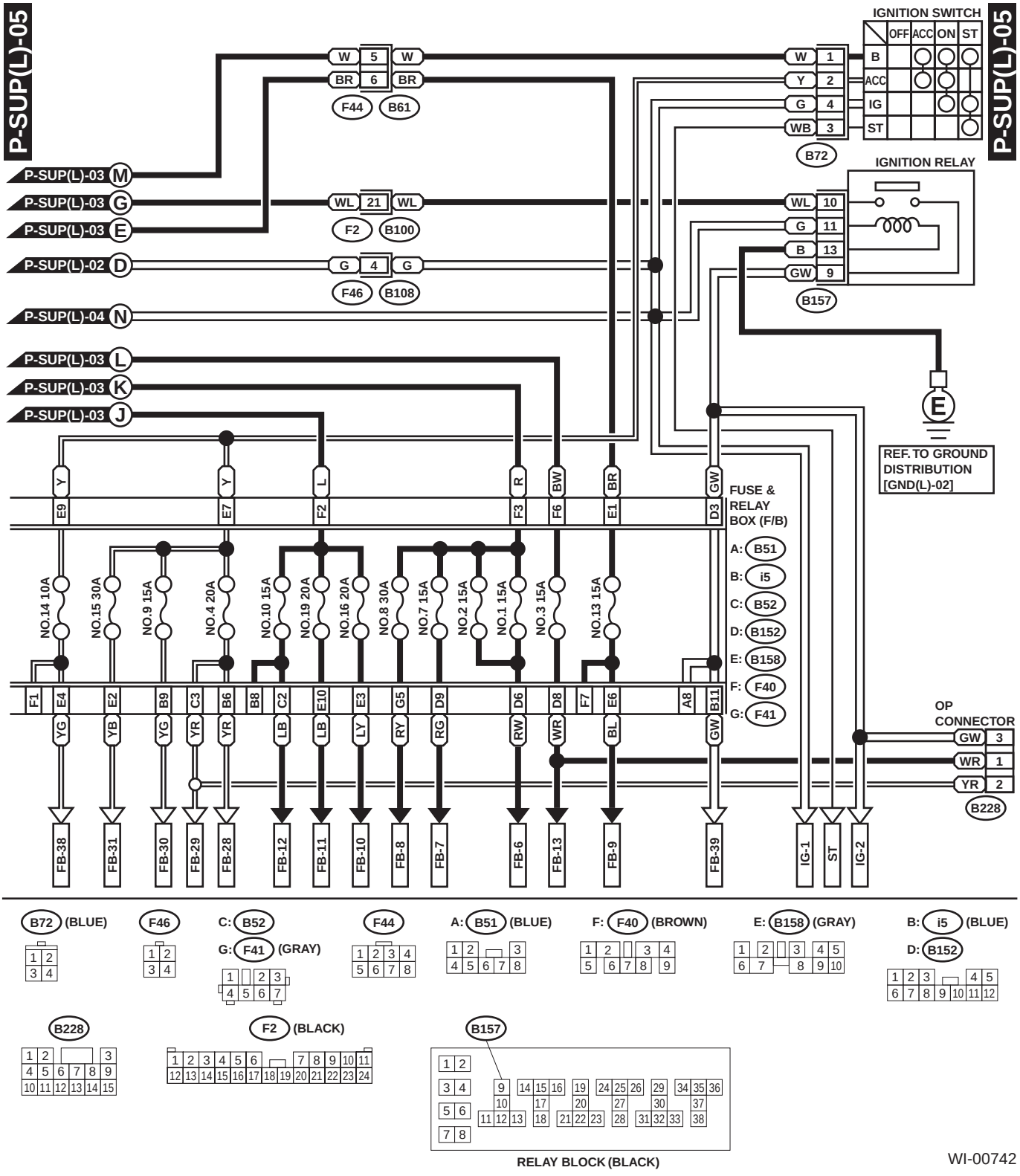
B: i5 (BLUE)
D: B152



B99



WI-00741


P-SUP(L)-05
P-SUP(L)-05
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
W 1
Y 2
G 4
WB 3
B72
IGNITION RELAY
WL 10
G 11
B 13
GW 9
B157
W 5 W
BR 6 BR
F44 B61
WL 21 WL
F2 B100
G 4 G
F46 B108
P-SUP(L)-03 M
P-SUP(L)-03 G
P-SUP(L)-03 E
P-SUP(L)-02 D
P-SUP(L)-04 N
P-SUP(L)-03 L
P-SUP(L)-03 K
P-SUP(L)-03 J
E
REF. TO GROUND DISTRIBUTION [GND(L)-02]
FUSE & RELAY BOX (F/B)
A: B51
B: i5
C: B52
D: B152
E: B158
F: F40
G: F41
NO.14 10A
NO.15 30A
NO.9 15A
NO.4 20A
NO.10 15A
NO.19 20A
NO.16 20A
NO.8 30A
NO.7 15A
NO.2 15A
NO.1 15A
NO.3 15A
NO.13 15A
OP CONNECTOR
GW 3
WR 1
YR 2
B228
FB-38
FB-31
FB-30
FB-29
FB-28
FB-12
FB-11
FB-10
FB-8
FB-7
FB-6
FB-13
FB-9
FB-39
IG-1
ST
IG-2
B72 (BLUE)
F46
C: B52
G: F41 (GRAY)
F44
A: B51 (BLUE)
F: F40 (BROWN)
E: B158 (GRAY)
B: i5 (BLUE)
D: B152
B228
F2 (BLACK)
B157
RELAY BLOCK (BLACK)

WI-00742

No.	Load
MB-1	Fuse (Relay block)
MB-2	Power window circuit breaker
MB-4	Data link connector Engine control module Immobiliser control module Main relay
MB-5	Diode (With rear fog light) Lighting switch OP connector
MB-6	Cruise control sub switch Horn switch
MB-7	Transmission control module
MB-8	Hazard switch Keyless entry control module Key warning switch
MB-9	Horn
MB-10	Headlight LH
MB-11	Combination meter Headlight RH
MB-12	A/C relay holder
SBF-7	ABS control module VDC hydraulic module
ALT	Combination meter
IG-1	Seat belt timer
IG-2	Check connector Seat belt timer Vehicle speed sensor (MT)
ST	Engine control module Inhibitor switch (AT) Starter motor (MT)
FB-1	ABS control module Main fan relay (4-cylinder engine model) Main fan relay-1 (6-cylinder engine model) Main fan relay-2 (6-cylinder engine model) VDC module
FB-2	Parking switch
FB-3	Parking switch
FB-4	Combination meter Hazard switch Rear turn signal light LH Trailer connector Turn signal switch
FB-5	Combination meter Hazard switch Rear turn signal light RH Trailer connector Turn signal switch
FB-6	Blower motor relay
FB-7	Front fog light relay
FB-8	ABS control module VDC hydraulic module
FB-9	Fuel pump relay
FB-10	Stop light switch
FB-11	Wiper deicer relay
FB-12	Rear fog light relay

No.	Load
FB-13	Keyless entry control module
FB-14	Airbag control module
FB-15	Airbag control module
FB-16	Engine control module Fuel pump relay Ignition coil (6-cylinder engine model) Ignition coil and ignitor (4-cylinder engine model) Immobiliser control module Transmission control module
FB-17	A/C pressure switch Blower motor relay Fan relay (6-cylinder engine model)
FB-18	A/C relay Sub fan relay (4-cylinder engine model) Sub fan relay-1 (6-cylinder engine model) Sub fan relay-2 (6-cylinder engine model)
FB-19	Auto A/C control module Mode control panel (Manual A/C)
FB-20	Back-up light switch (MT) Cruise control module Inhibitor switch (AT) Power window relay Wiper deicer relay Wiper deicer timer
FB-21	Cruise control main switch
FB-22	Engine control module Rear defogger switch
FB-23	Rear defogger Rear defogger condenser
FB-24	Engine control module Lighting switch OP connector
FB-25	Headlight leveler LH Headlight leveler RH Headlight leveling switch Parking switch
FB-26	Front fog light relay Illumination control module Illumination light OP connector Rear fog light relay
FB-27	Combination meter Front fog light switch Headlight leveling switch Illumination light Rear fog light switch
FB-28	Auto A/C control module Front accessory power supply socket
FB-29	Mirror heater LH Mirror heater RH Remote control rearview mirror switch Seat heater/rear accessory power supply relay Vanity mirror illumination light LH Vanity mirror illumination light RH
FB-30	Radio Radio amplifier

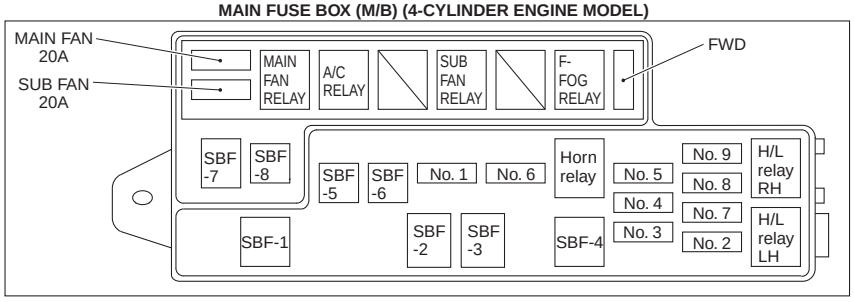
No.	Load
FB-31	Front washer motor Front wiper motor Front wiper & washer switch
FB-32	Keyless entry control module Key switch illumination light Luggage room light (Wagon) Trunk room light (Sedan) Room light Spot light Step light LH Step light RH
FB-33	Auto A/C control module Combination meter Radio
FB-34	License plate light LH License plate light RH Tail light LH Tail light RH Trailer connector
FB-35	Front clearance light LH Front clearance light RH
FB-36	Front turn signal light LH Side turn signal light LH
FB-37	Front turn signal light RH Side turn signal light RH
FB-38	Rear washer motor Rear wiper intermittent module Rear wiper motor
FB-39	Combination meter Hazard switch

2. RHD MODEL

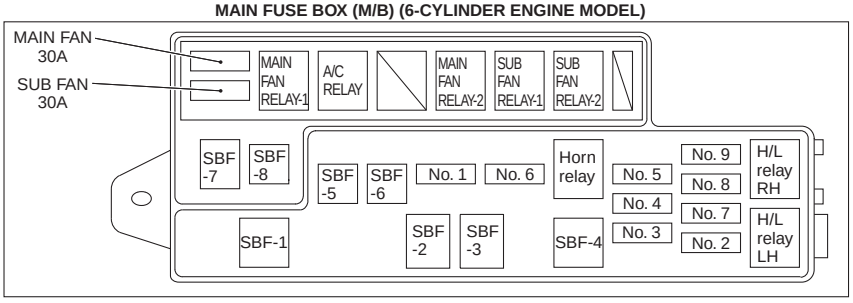
P-SUP(R)-01

P-SUP(R)-01

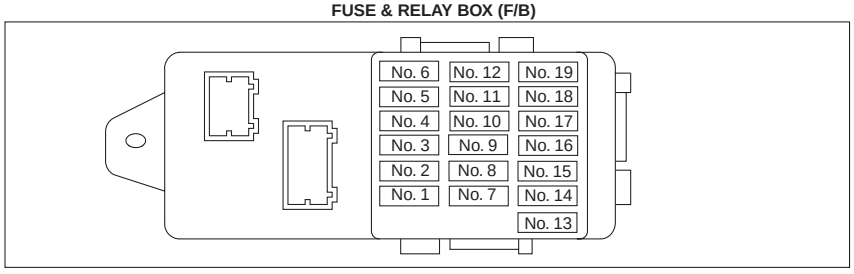
MAIN FUSE BOX (M/B) (4-CYLINDER ENGINE MODEL)



MAIN FUSE BOX (M/B) (6-CYLINDER ENGINE MODEL)

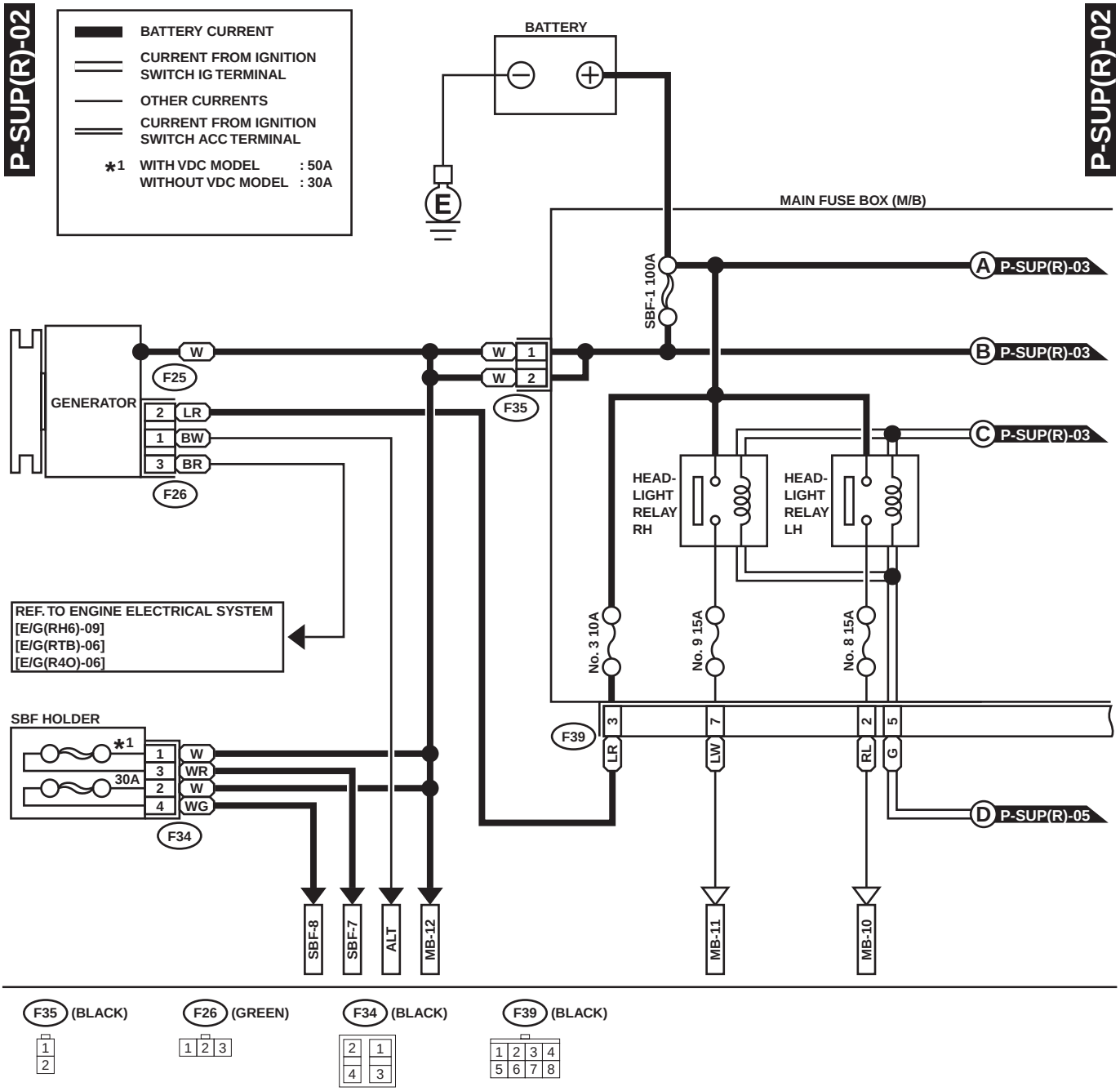


FUSE & RELAY BOX (F/B)

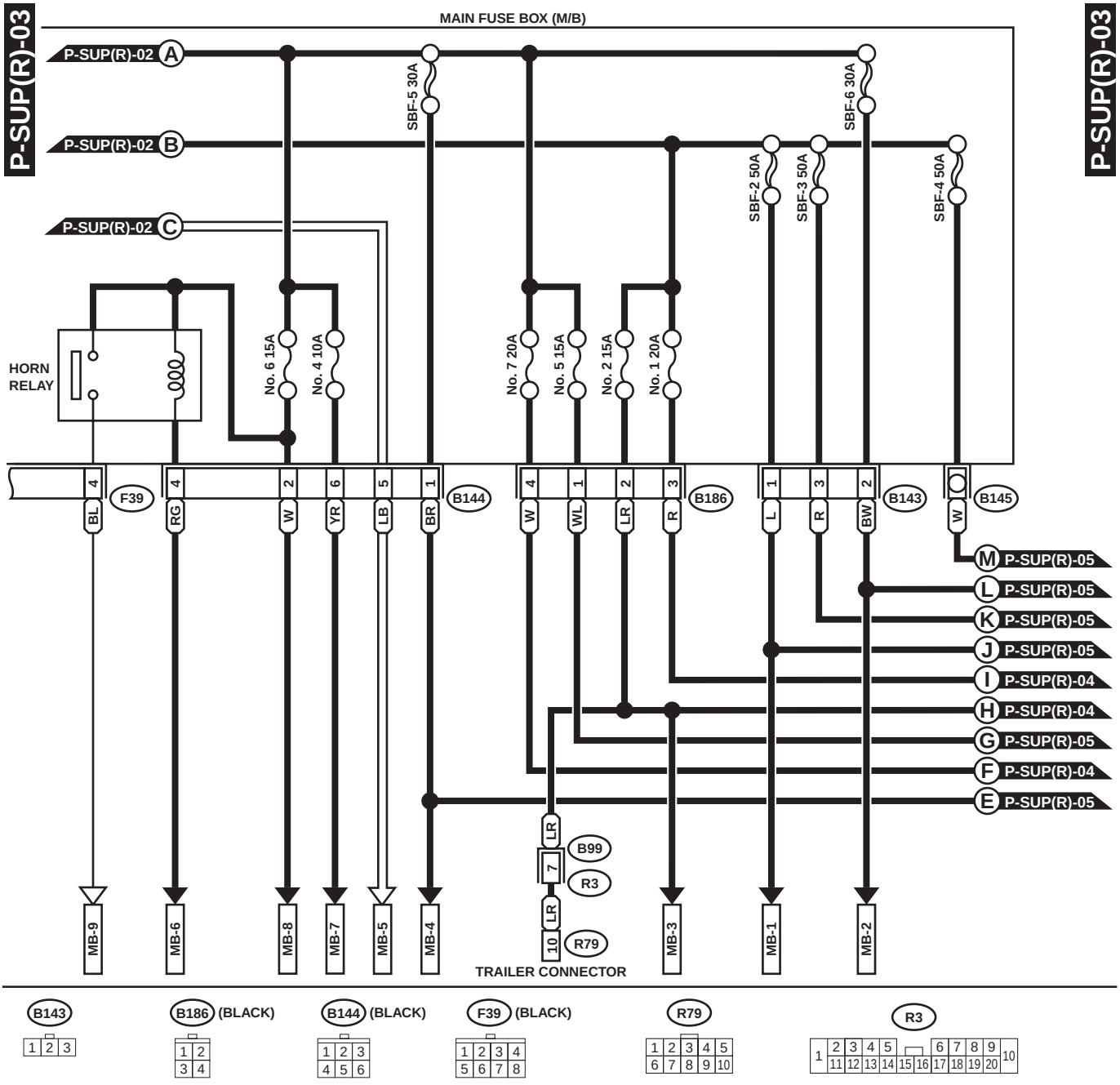


WI-00743

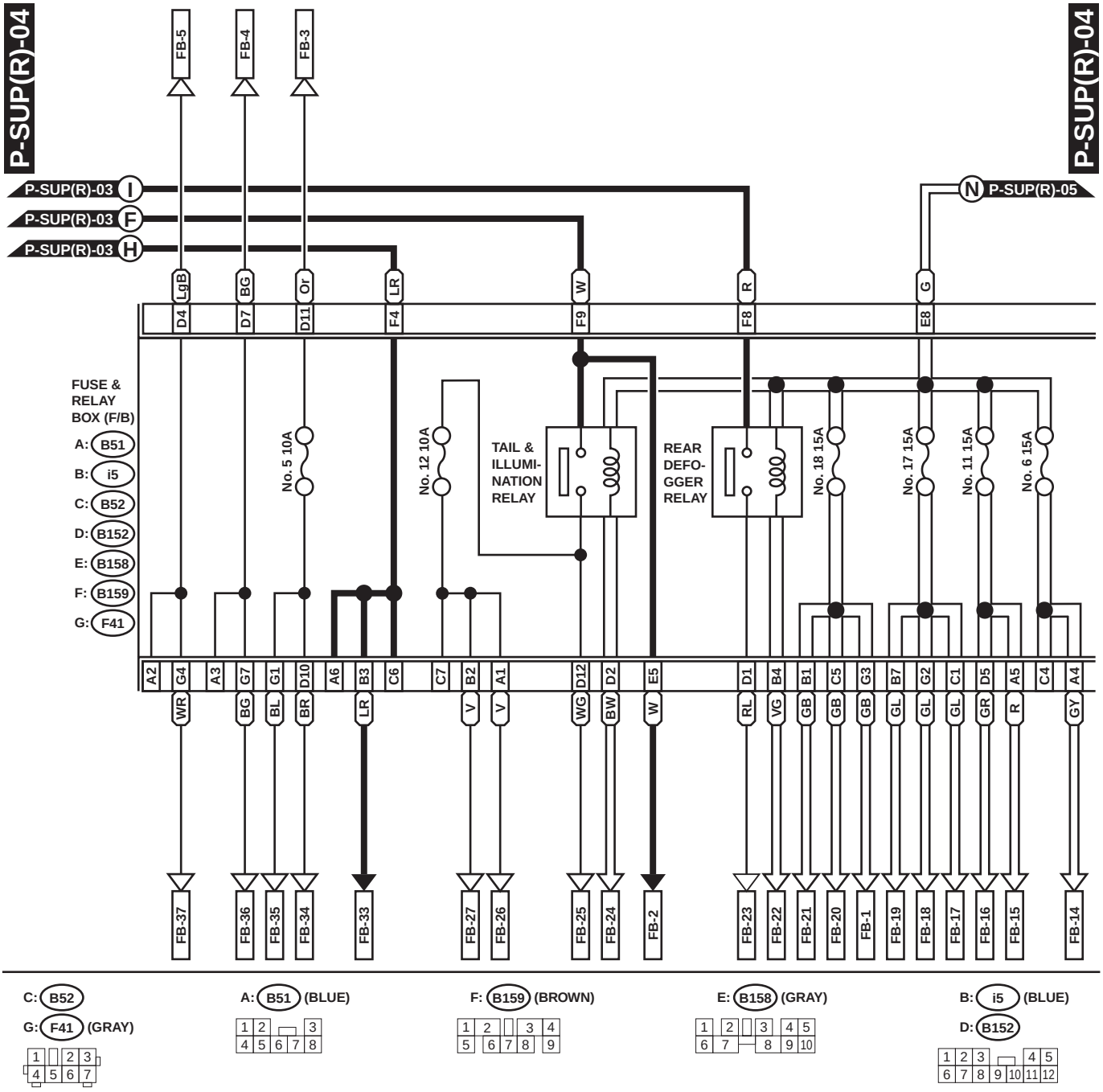
POWER SUPPLY ROUTING



WI-00744


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
LB
BR
WL
LR
R
L
BW
M P-SUP(R)-05
L P-SUP(R)-05
K P-SUP(R)-05
J P-SUP(R)-05
I P-SUP(R)-04
H P-SUP(R)-04
G P-SUP(R)-05
F P-SUP(R)-04
E P-SUP(R)-05
B99
R3
R79
TRAILER CONNECTOR
MB-9
MB-6
MB-8
MB-7
MB-5
MB-4
MB-3
MB-1
MB-2
B143
B186 (BLACK)
B144 (BLACK)
F39 (BLACK)
R79
R3

WI-00745



C: B52
G: F41 (GRAY)

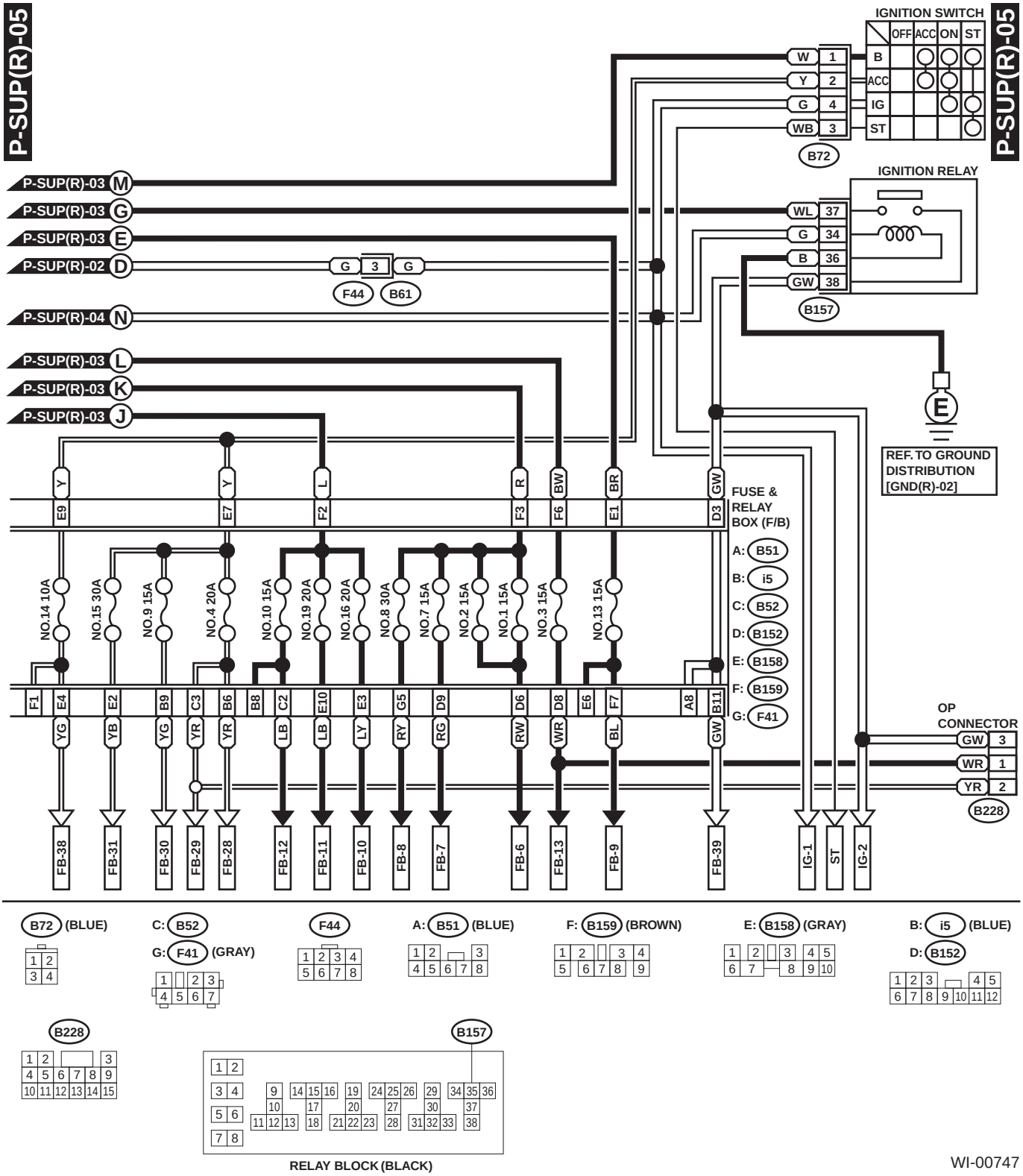
A: B51 (BLUE)

F: B159 (BROWN)

E: B158 (GRAY)

B: i5 (BLUE)
D: B152

WI-00746


P-SUP(R)-05
P-SUP(R)-05
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
W 1
Y 2
G 4
WB 3
B72
IGNITION RELAY
WL 37
G 34
B 36
GW 38
B157
P-SUP(R)-03 M
P-SUP(R)-03 G
P-SUP(R)-03 E
P-SUP(R)-02 D
G 3 G
F44 B61
P-SUP(R)-04 N
P-SUP(R)-03 L
P-SUP(R)-03 K
P-SUP(R)-03 J
REF. TO GROUND DISTRIBUTION [GND(R)-02]
FUSE & RELAY BOX (F/B)
A: B51
B: i5
C: B52
D: B152
E: B158
F: B159
G: F41
NO.14 10A
NO.15 30A
NO.9 15A
NO.4 20A
NO.10 15A
NO.19 20A
NO.16 20A
NO.8 30A
NO.7 15A
NO.2 15A
NO.1 15A
NO.3 15A
NO.13 15A
OP CONNECTOR
GW 3
WR 1
YR 2
B228
FB-38
FB-31
FB-30
FB-29
FB-28
FB-12
FB-11
FB-10
FB-8
FB-7
FB-6
FB-13
FB-9
FB-39
IG-1
ST
IG-2
B72 (BLUE)
C: B52
G: F41 (GRAY)
F44
A: B51 (BLUE)
F: B159 (BROWN)
E: B158 (GRAY)
B: i5 (BLUE)
D: B152
B228
B157
RELAY BLOCK (BLACK)

WI-00747

No.	Load
MB-1	Fuse (Relay block)
MB-2	Power window circuit breaker
MB-3	Keyless entry control module Key switch illumination light Luggage room light (Wagon) Trunk room light (Sedan) Room light Spot light Step light LH Step light RH
MB-4	Data link connector Engine control module Immobilizer control module Main relay
MB-5	Diode (With rear fog light) Lighting switch OP connector
MB-6	Cruise control sub switch Horn switch
MB-7	Transmission control module
MB-8	Hazard switch Keyless entry control module Key warning switch
MB-9	Horn
MB-10	Headlight LH
MB-11	Combination meter Headlight RH
MB-12	A/C relay holder
SBF-7	ABS control module VDC hydraulic module
SBF-8	Fuse (Relay block)
ALT	Combination meter
IG-1	Seat belt timer
IG-2	Check connector Vehicle speed sensor (MT)
ST	Engine control module Inhibitor switch (AT) Starter motor (MT)
FB-1	ABS control module Main fan relay (4-cylinder engine model) Main fan relay-1 (6-cylinder engine model) Main fan relay-2 (6-cylinder engine model) VDC module
FB-2	Parking switch
FB-3	Parking switch
FB-4	Combination meter Hazard switch Rear turn signal light LH Side turn signal light LH Trailer connector Turn signal switch
FB-5	Combination meter Hazard switch Rear turn signal light RH Trailer connector Turn signal switch

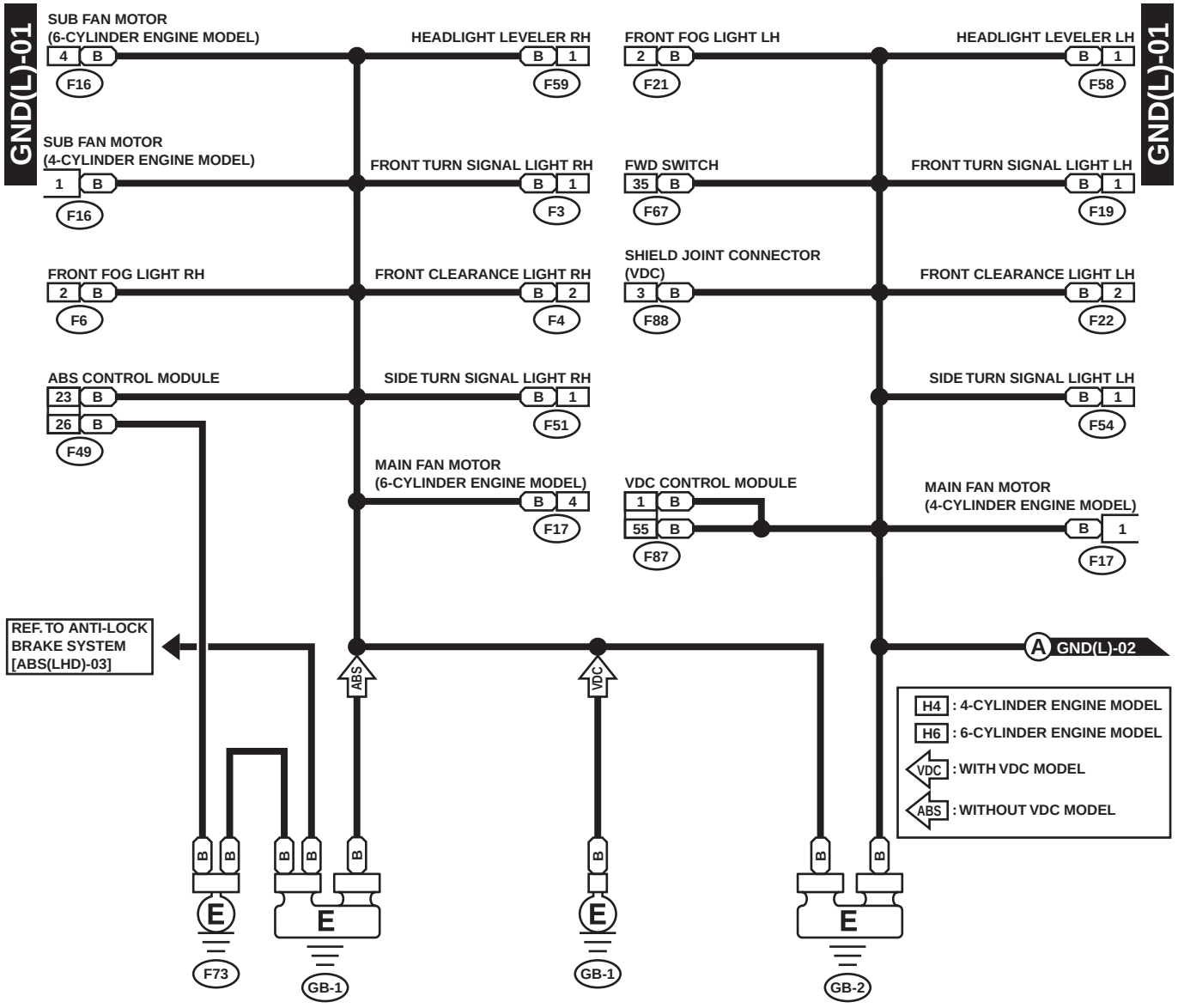
No.	Load
FB-6	Blower motor relay
FB-7	Front fog light relay
FB-8	ABS control module VDC hydraulic module
FB-9	Fuel pump relay
FB-10	Stop light switch
FB-11	Wiper deicer relay
FB-12	Rear fog light relay
FB-13	Keyless entry control module
FB-14	Airbag control module
FB-15	Airbag control module
FB-16	Engine control module Fuel pump relay Ignition coil (6-cylinder engine and turbo engine model) Ignition coil and ignitor (4-cylinder non-turbo engine model) Immobilizer control module Transmission control module
FB-17	Blower motor relay Fan relay (6-cylinder engine model) FRESH/RECIRC actuator Mode actuator
FB-18	A/C pressure switch A/C relay Sub fan relay (4-cylinder engine model) Sub fan relay-1 (6-cylinder engine model) Sub fan relay-2 (6-cylinder engine model)
FB-19	Auto A/C control module Blower module (Auto A/C) Mode control panel (Manual A/C)
FB-20	Back-up light switch (MT) Cruise control module Inhibitor switch (AT) Muffler actuator control module Power window relay Wiper deicer relay Wiper deicer timer
FB-21	Cruise control main switch
FB-22	Engine control module Rear defogger switch
FB-23	Rear defogger Rear defogger condenser
FB-24	Engine control module Lighting switch OP connector
FB-25	Headlight leveler LH Headlight leveler RH Headlight leveling switch Parking switch
FB-26	Front fog light relay Illumination control module Illumination light OP connector Rear fog light relay

No.	Load
FB-27	Combination meter Front fog light switch Headlight leveling switch Illumination light Rear fog light switch
FB-28	Auto A/C control module Front accessory power supply socket
FB-29	Mirror heater LH Mirror heater RH Remote control rearview mirror switch Seat heater/rear accessory power supply relay Vanity mirror illumination light LH Vanity mirror illumination light RH
FB-30	Radio Radio amplifier
FB-31	Front washer motor Front wiper motor Front wiper & washer switch
FB-33	Auto A/C control module Combination meter Radio
FB-34	License plate light LH License plate light RH Tail light LH Tail light RH Trailer connector
FB-35	Front clearance light LH Front clearance light RH
FB-36	Front turn signal light LH
FB-37	Front turn signal light RH Side turn signal light RH
FB-38	Rear washer motor Rear wiper intermittent module Rear wiper motor
FB-39	Combination meter Hazard switch

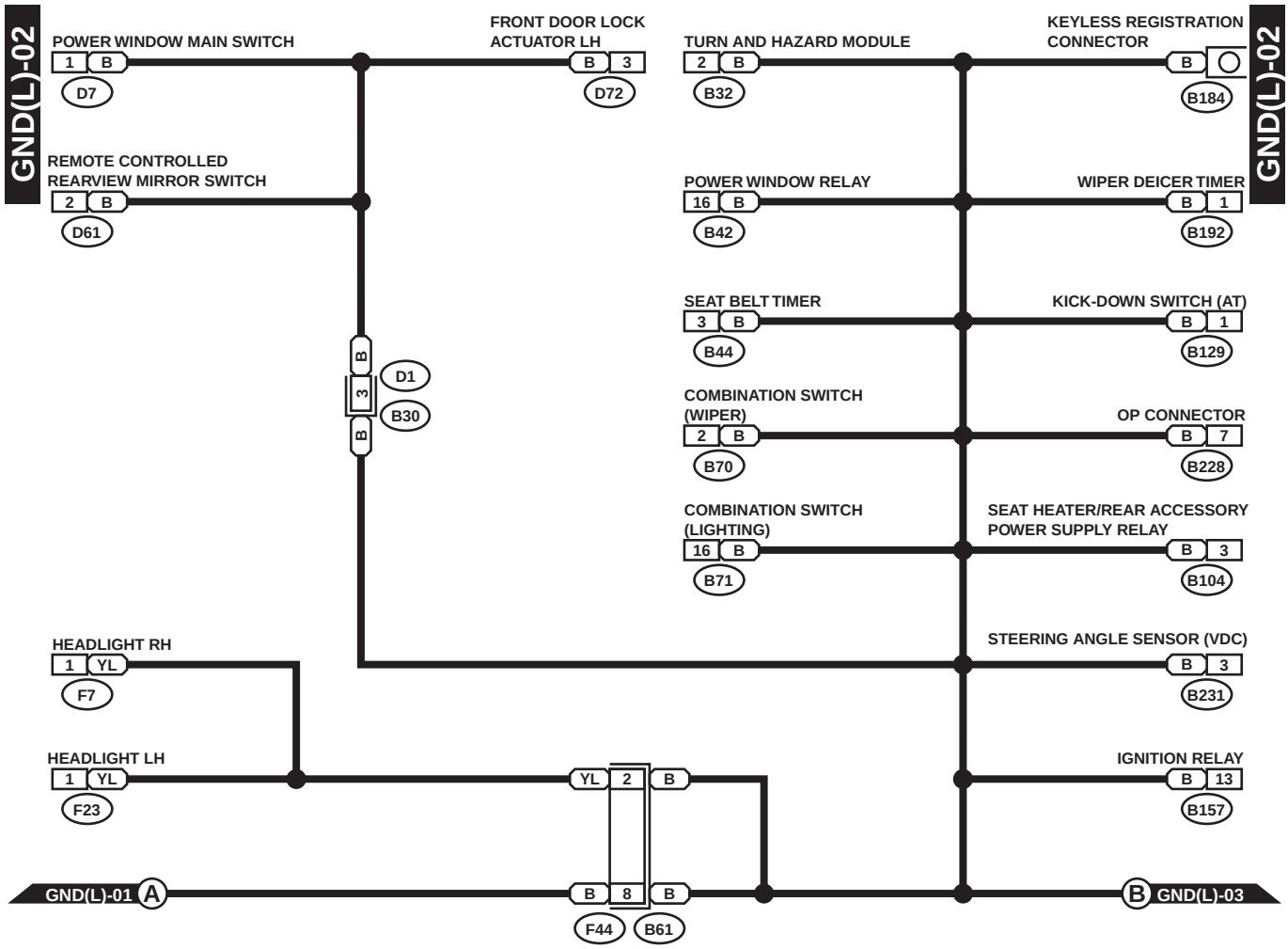
5. Ground Distribution

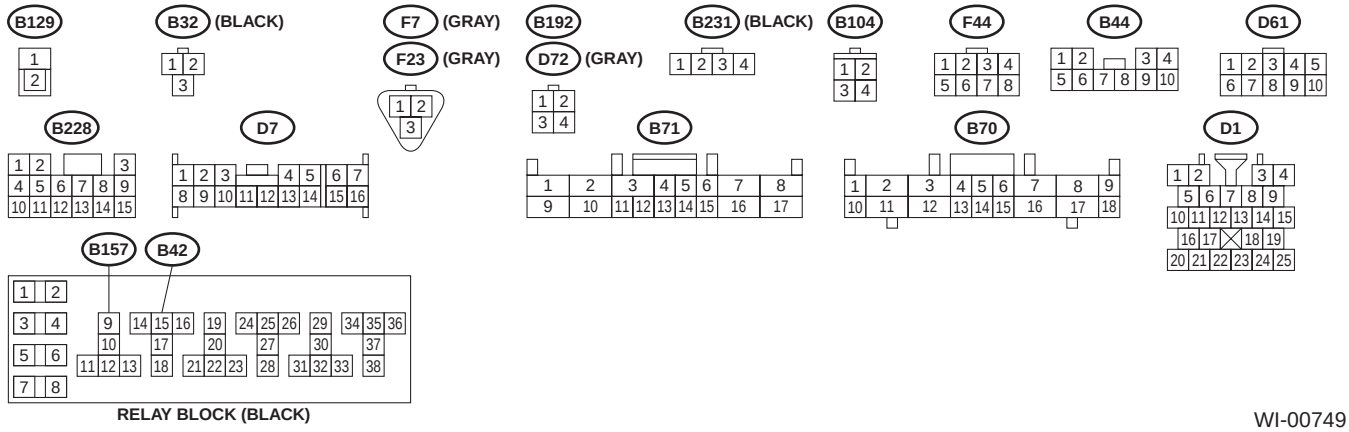
A: SCHEMATIC

1. LHD MODEL



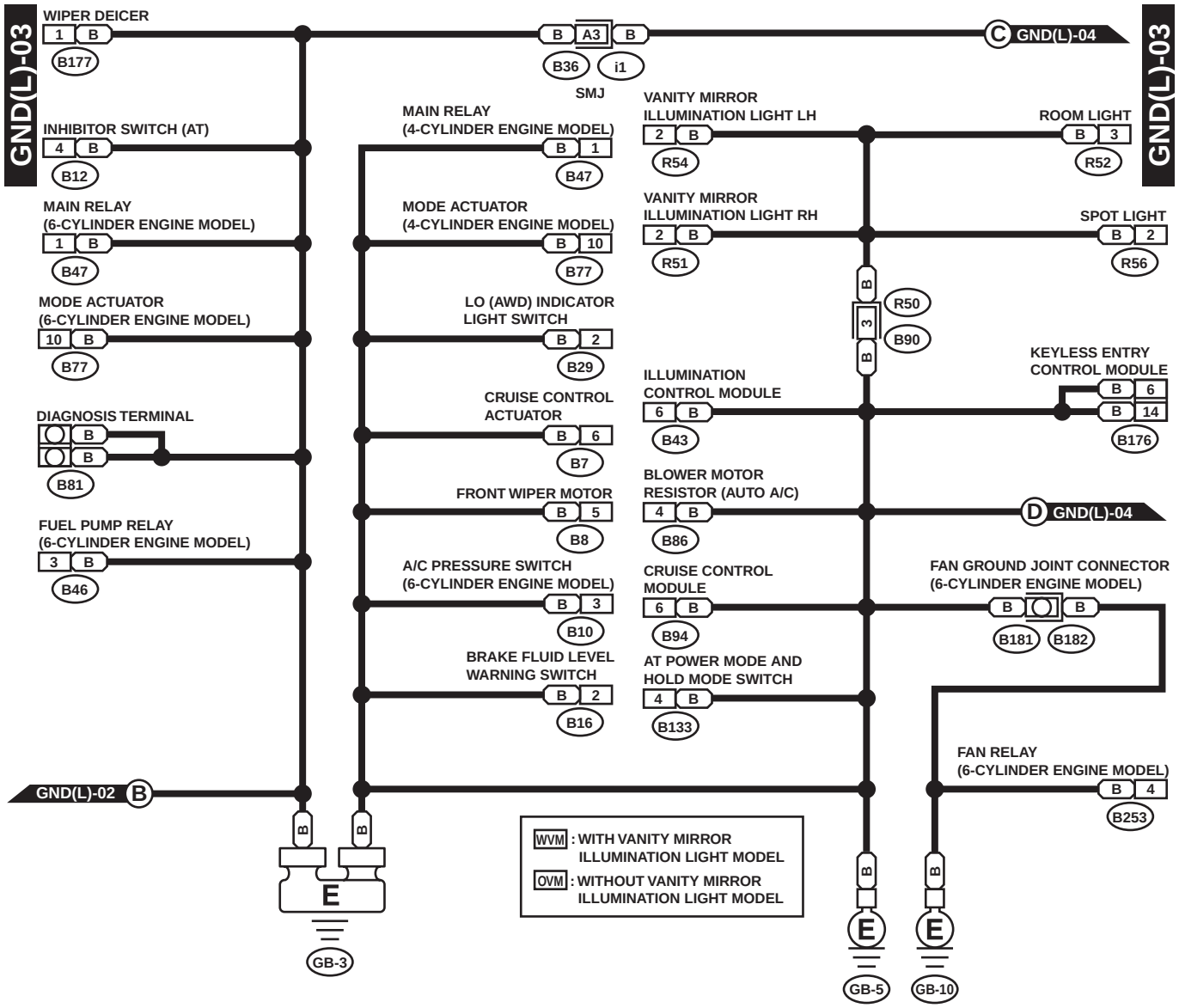
WI-00748

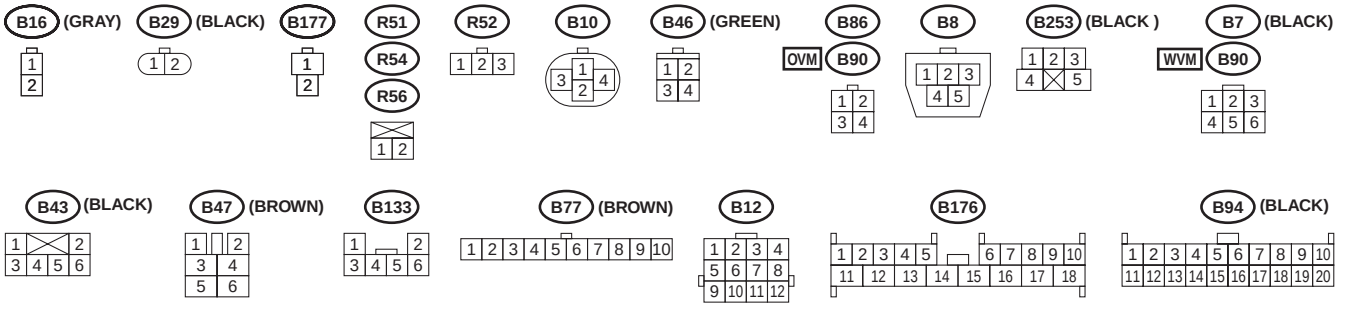

GND(L)-02
POWER WINDOW MAIN SWITCH
1 B
D7
FRONT DOOR LOCK ACTUATOR LH
B 3
D72
REMOTE CONTROLLED REARVIEW MIRROR SWITCH
2 B
D61
B 3
D1
B30
TURN AND HAZARD MODULE
2 B
B32
KEYLESS REGISTRATION CONNECTOR
B
B184
GND(L)-02
POWER WINDOW RELAY
16 B
B42
WIPER DEICER TIMER
B 1
B192
SEAT BELT TIMER
3 B
B44
KICK-DOWN SWITCH (AT)
B 1
B129
COMBINATION SWITCH (WIPER)
2 B
B70
OP CONNECTOR
B 7
B228
COMBINATION SWITCH (LIGHTING)
16 B
B71
SEAT HEATER/REAR ACCESSORY POWER SUPPLY RELAY
B 3
B104
HEADLIGHT RH
1 YL
F7
STEERING ANGLE SENSOR (VDC)
B 3
B231
HEADLIGHT LH
1 YL
F23
YL 2 B
IGNITION RELAY
B 13
B157
GND(L)-01 A
B 8 B
F44 B61
B GND(L)-03


B129
B32 (BLACK)
F7 (GRAY)
F23 (GRAY)
B192
D72 (GRAY)
B231 (BLACK)
B104
F44
B44
D61
B228
D7
B71
B70
D1
B157
B42
RELAY BLOCK (BLACK)

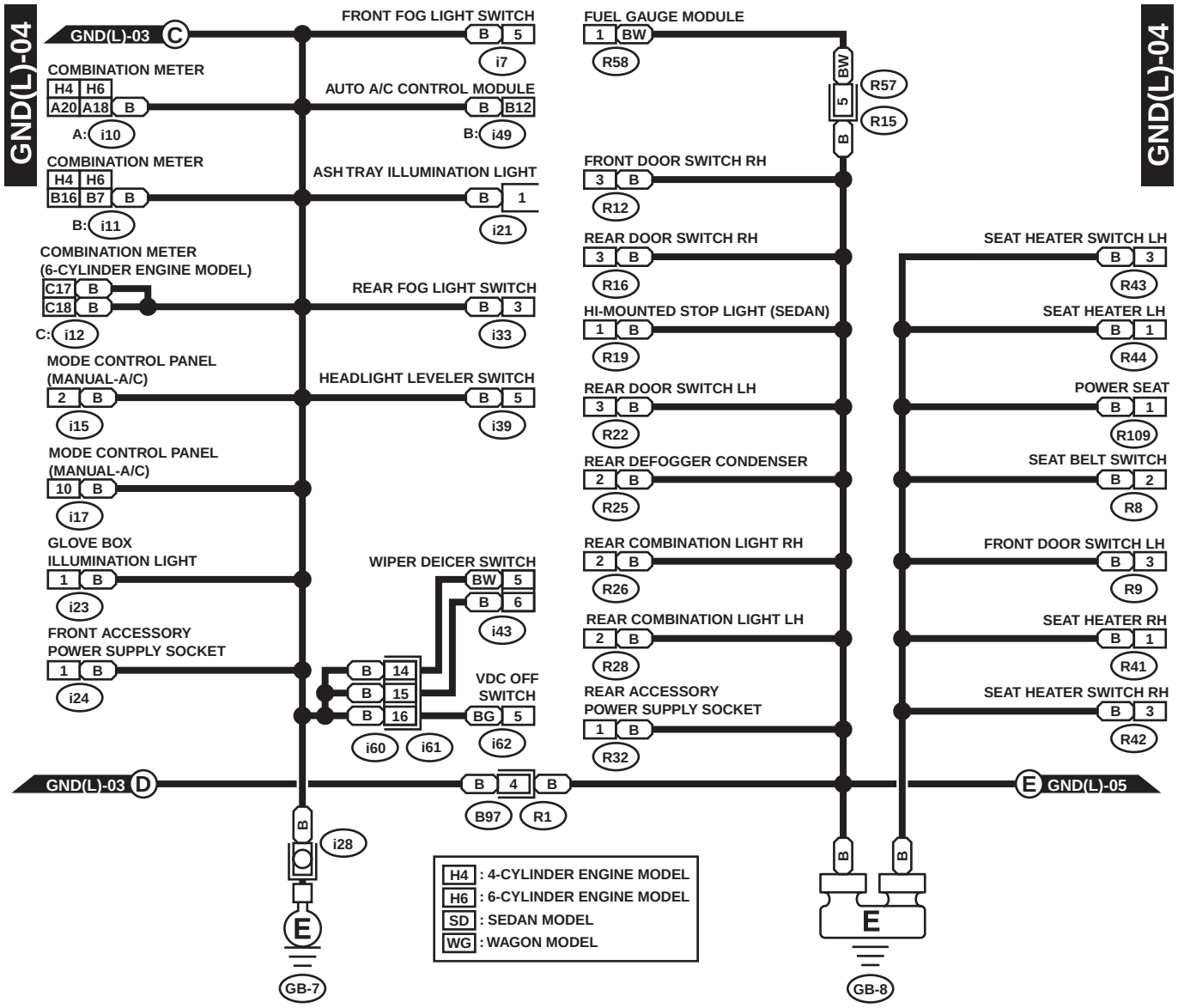
WI-00749

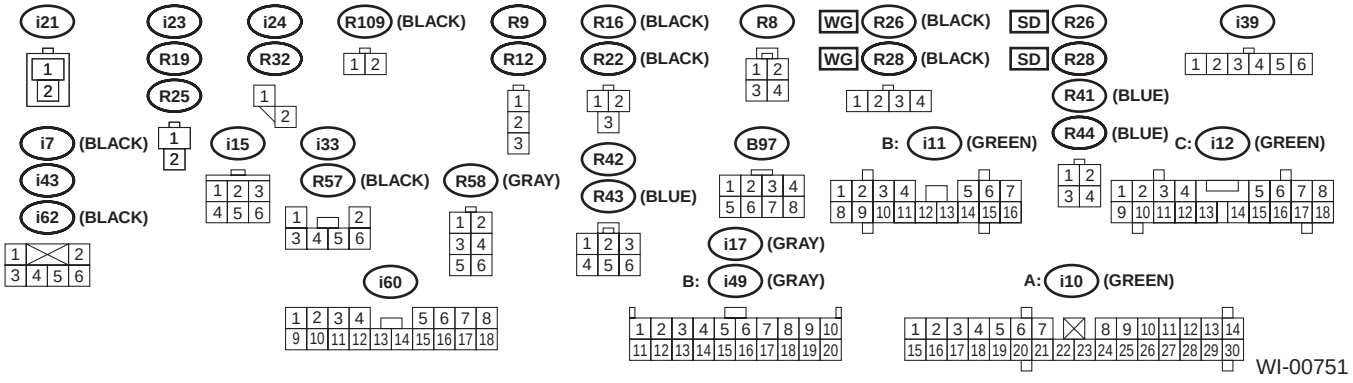
GROUND DISTRIBUTION





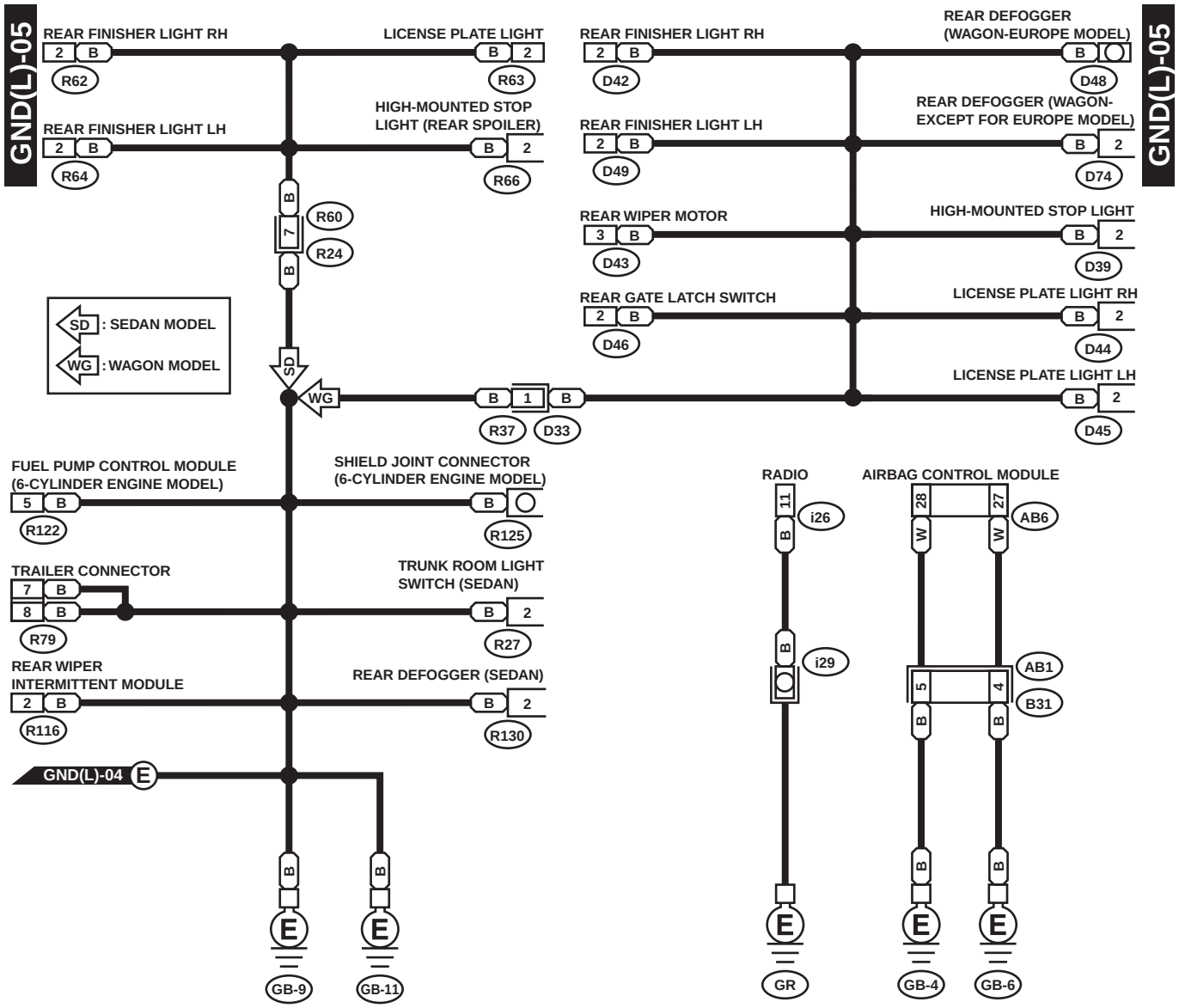
WI-00750

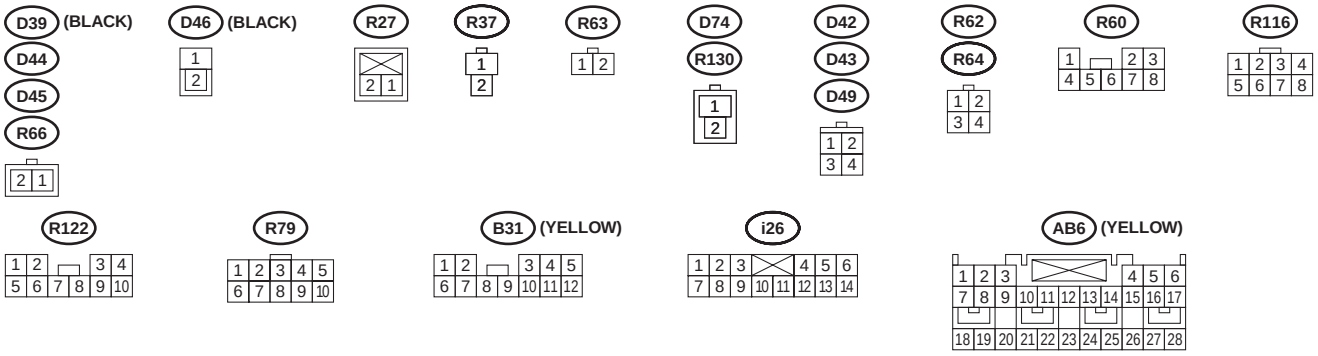

GND(L)-04
GND(L)-03 C
FRONT FOG LIGHT SWITCH
B 5
i7
COMBINATION METER
H4 H6
A20 A18 B
A: i10
AUTO A/C CONTROL MODULE
B B12
B: i49
COMBINATION METER
H4 H6
B16 B7 B
B: i11
ASH TRAY ILLUMINATION LIGHT
B 1
i21
COMBINATION METER
(6-CYLINDER ENGINE MODEL)
C17 B
C18 B
C: i12
REAR FOG LIGHT SWITCH
B 3
i33
MODE CONTROL PANEL
(MANUAL-A/C)
2 B
i15
HEADLIGHT LEVELER SWITCH
B 5
i39
MODE CONTROL PANEL
(MANUAL-A/C)
10 B
i17
GLOVE BOX
ILLUMINATION LIGHT
1 B
i23
WIPER DEICER SWITCH
BW 5
B 6
i43
FRONT ACCESSORY
POWER SUPPLY SOCKET
1 B
i24
B 14
B 15
B 16
i60 i61
VDC OFF
SWITCH
BG 5
i62
GND(L)-03 D
B 4 B
B97 R1
i28
GB-7
FUEL GAUGE MODULE
1 BW
R58
BW 5 B
R57
R15
FRONT DOOR SWITCH RH
3 B
R12
REAR DOOR SWITCH RH
3 B
R16
HI-MOUNTED STOP LIGHT (SEDAN)
1 B
R19
REAR DOOR SWITCH LH
3 B
R22
REAR DEFOGGER CONDENSER
2 B
R25
REAR COMBINATION LIGHT RH
2 B
R26
REAR COMBINATION LIGHT LH
2 B
R28
REAR ACCESSORY
POWER SUPPLY SOCKET
1 B
R32
SEAT HEATER SWITCH LH
B 3
R43
SEAT HEATER LH
B 1
R44
POWER SEAT
B 1
R109
SEAT BELT SWITCH
B 2
R8
FRONT DOOR SWITCH LH
B 3
R9
SEAT HEATER RH
B 1
R41
SEAT HEATER SWITCH RH
B 3
R42
GND(L)-05 E
GB-8
H4 : 4-CYLINDER ENGINE MODEL
H6 : 6-CYLINDER ENGINE MODEL
SD : SEDAN MODEL
WG : WAGON MODEL


i21
i23
R19
R25
i24
R32
R109 (BLACK)
R9
R12
R16 (BLACK)
R22 (BLACK)
R8
WG R26 (BLACK)
WG R28 (BLACK)
SD R26
SD R28
R41 (BLUE)
R44 (BLUE)
i39
i7 (BLACK)
i43
i62 (BLACK)
i15
i33
R57 (BLACK)
R58 (GRAY)
R42
R43 (BLUE)
B97
i17 (GRAY)
B: i49 (GRAY)
B: i11 (GREEN)
A: i10 (GREEN)
C: i12 (GREEN)
i60

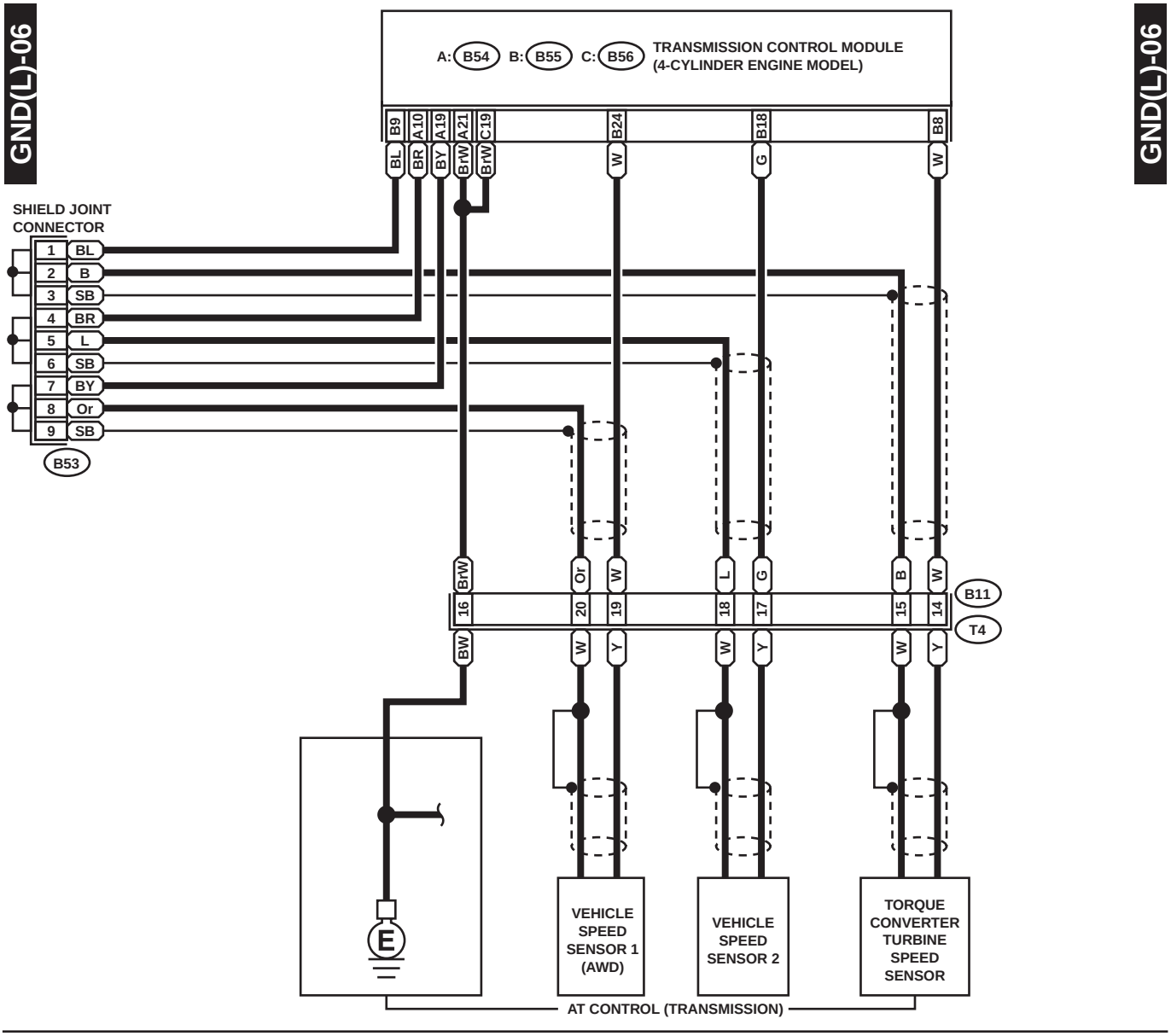
WI-00751

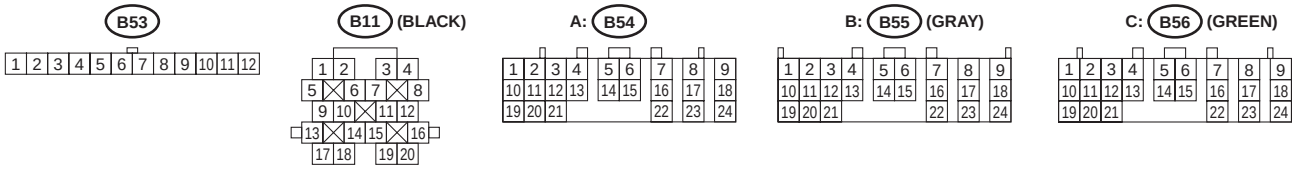
GROUND DISTRIBUTION





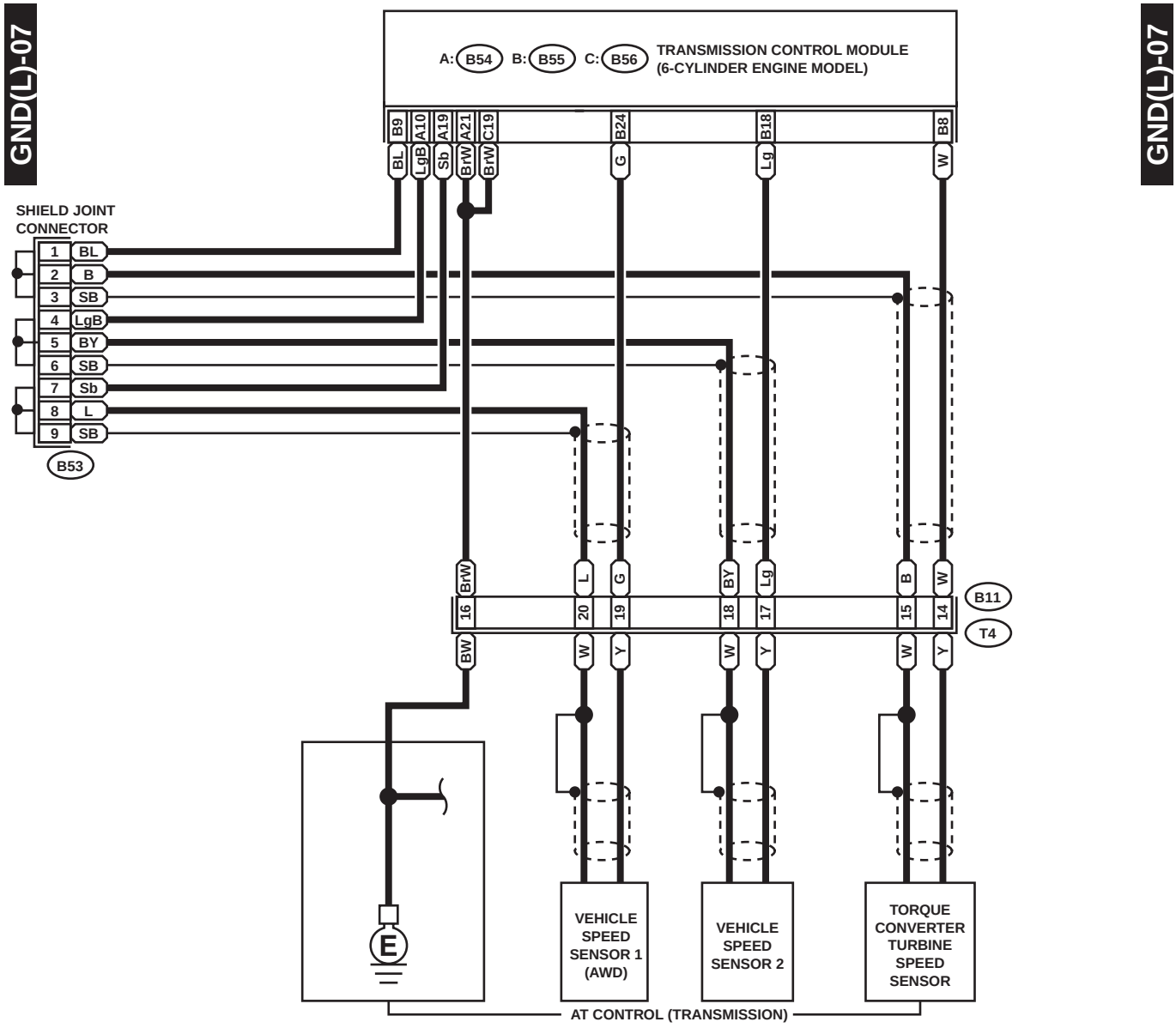
WI-00752

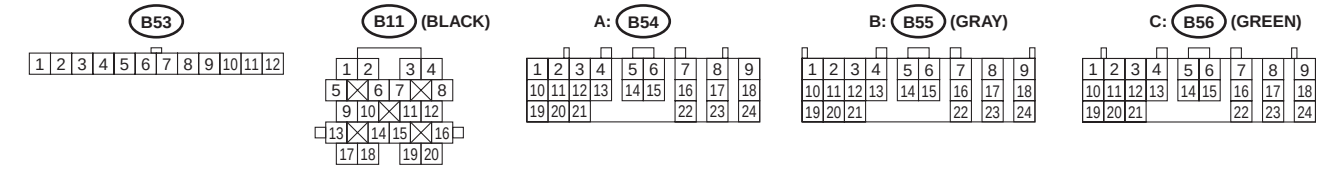

GND(L)-06
GND(L)-06
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE (4-CYLINDER ENGINE MODEL)
B9 A10 A19 A21 C19 B24 B18 B8
BL BR BY BrW BrW W G W
SHIELD JOINT CONNECTOR
1 BL
2 B
3 SB
4 BR
5 L
6 SB
7 BY
8 Or
9 SB
B53
BrW Or W L G B W
16 20 19 18 17 15 14
B11
T4
BW W Y W Y W Y
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)


B53
1 2 3 4 5 6 7 8 9 10 11 12
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

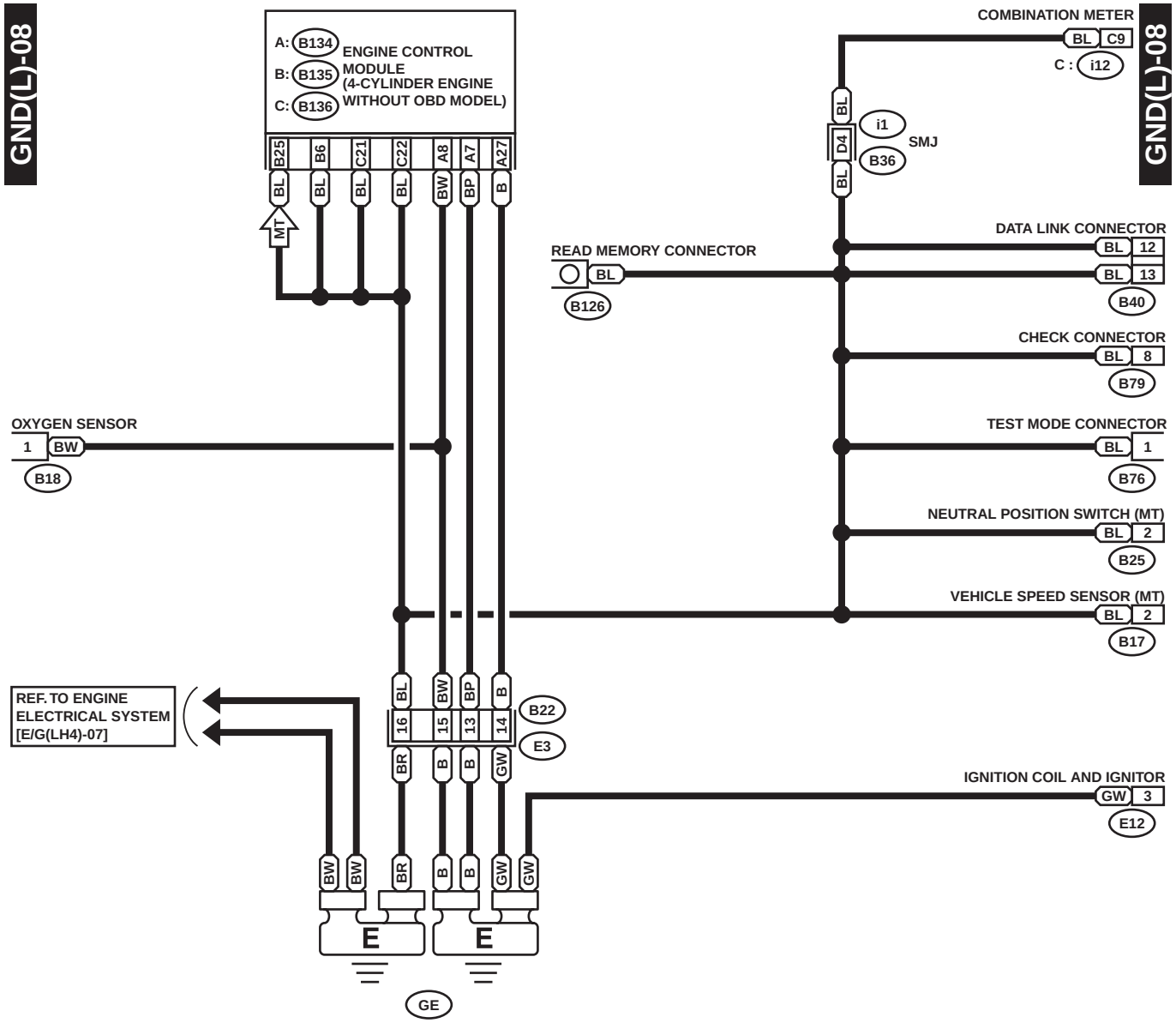
WI-00753

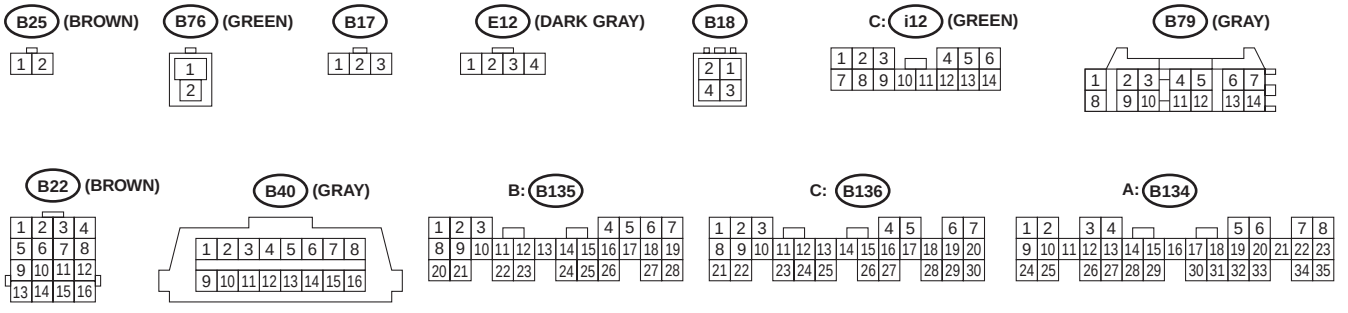
GROUND DISTRIBUTION





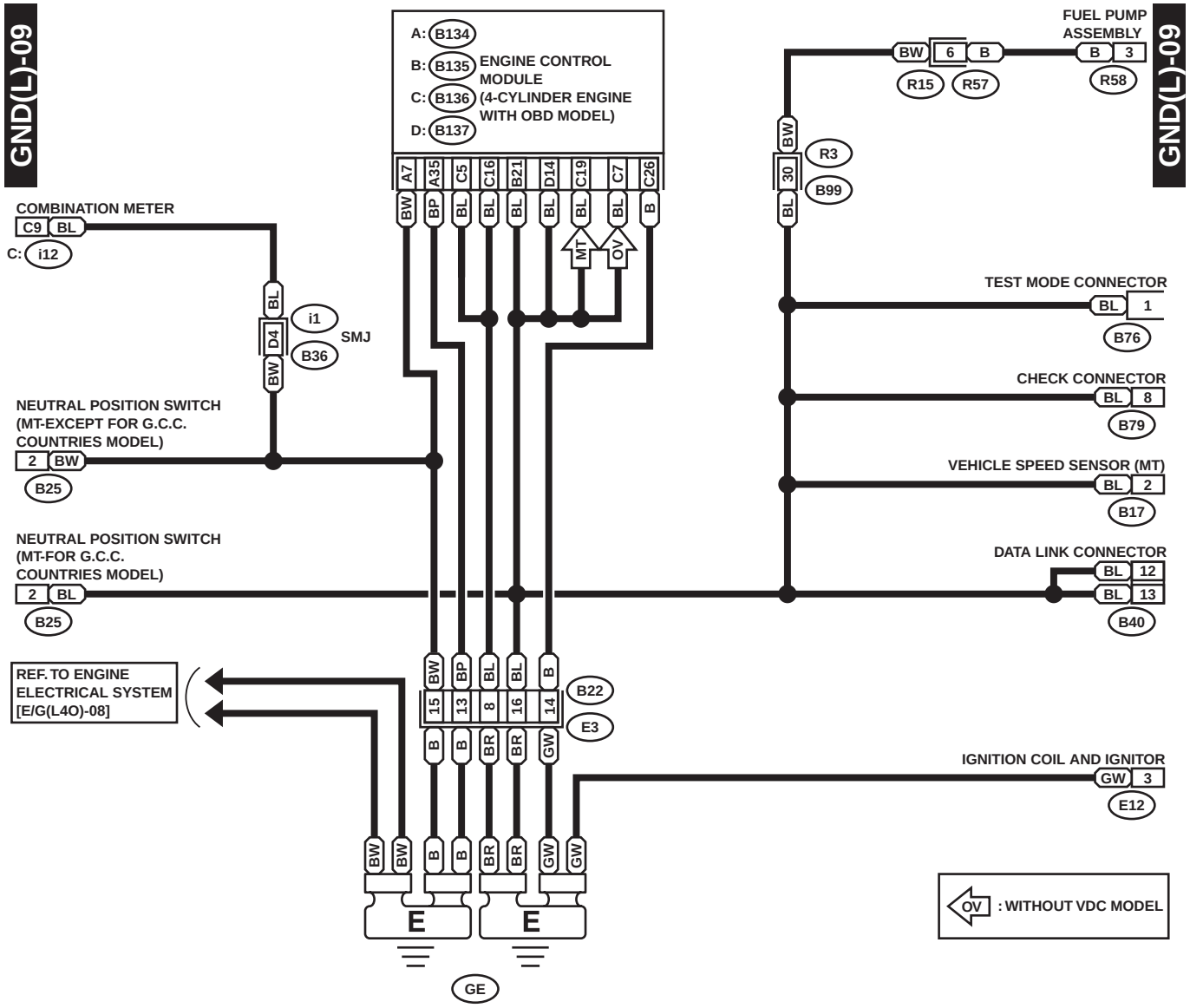
WI-00754

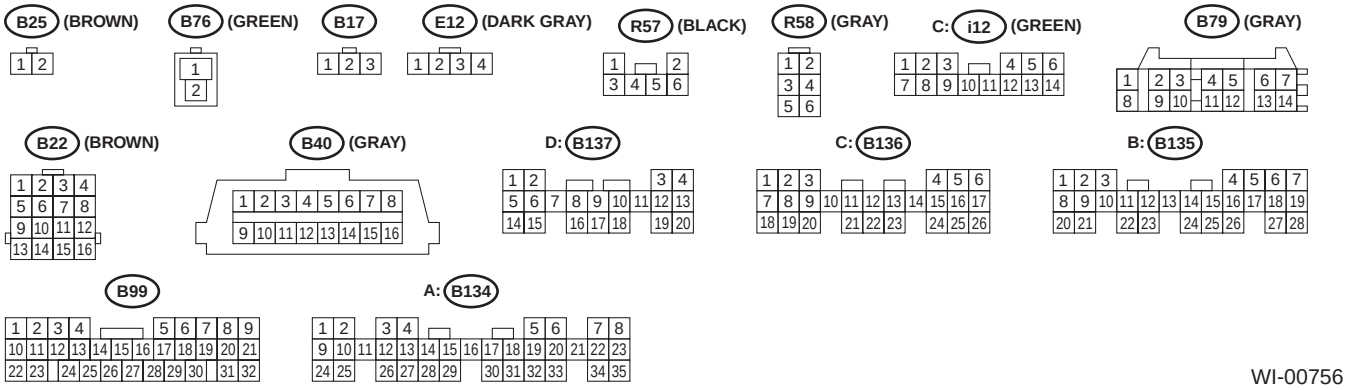

GND(L)-08
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE (4-CYLINDER ENGINE WITHOUT OBD MODEL)
B25 B6 C21 C22 A8 A7 A27
BL BL BL BL BW BP B
MT
COMBINATION METER
BL C9
C : i12
BL
i1
D4
B36
SMJ
BL
GND(L)-08
DATA LINK CONNECTOR
BL 12
BL 13
B40
READ MEMORY CONNECTOR
BL
B126
CHECK CONNECTOR
BL 8
B79
OXYGEN SENSOR
1 BW
B18
TEST MODE CONNECTOR
BL 1
B76
NEUTRAL POSITION SWITCH (MT)
BL 2
B25
VEHICLE SPEED SENSOR (MT)
BL 2
B17
REF. TO ENGINE ELECTRICAL SYSTEM [E/G(LH4)-07]
BL BW BP B
16 15 13 14
B22
E3
BR B B GW
IGNITION COIL AND IGNITOR
GW 3
E12
BW BW BR B B GW GW
E
E
GE


B25 (BROWN)
B76 (GREEN)
B17
E12 (DARK GRAY)
B18
C: i12 (GREEN)
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
B: B135
C: B136
A: B134

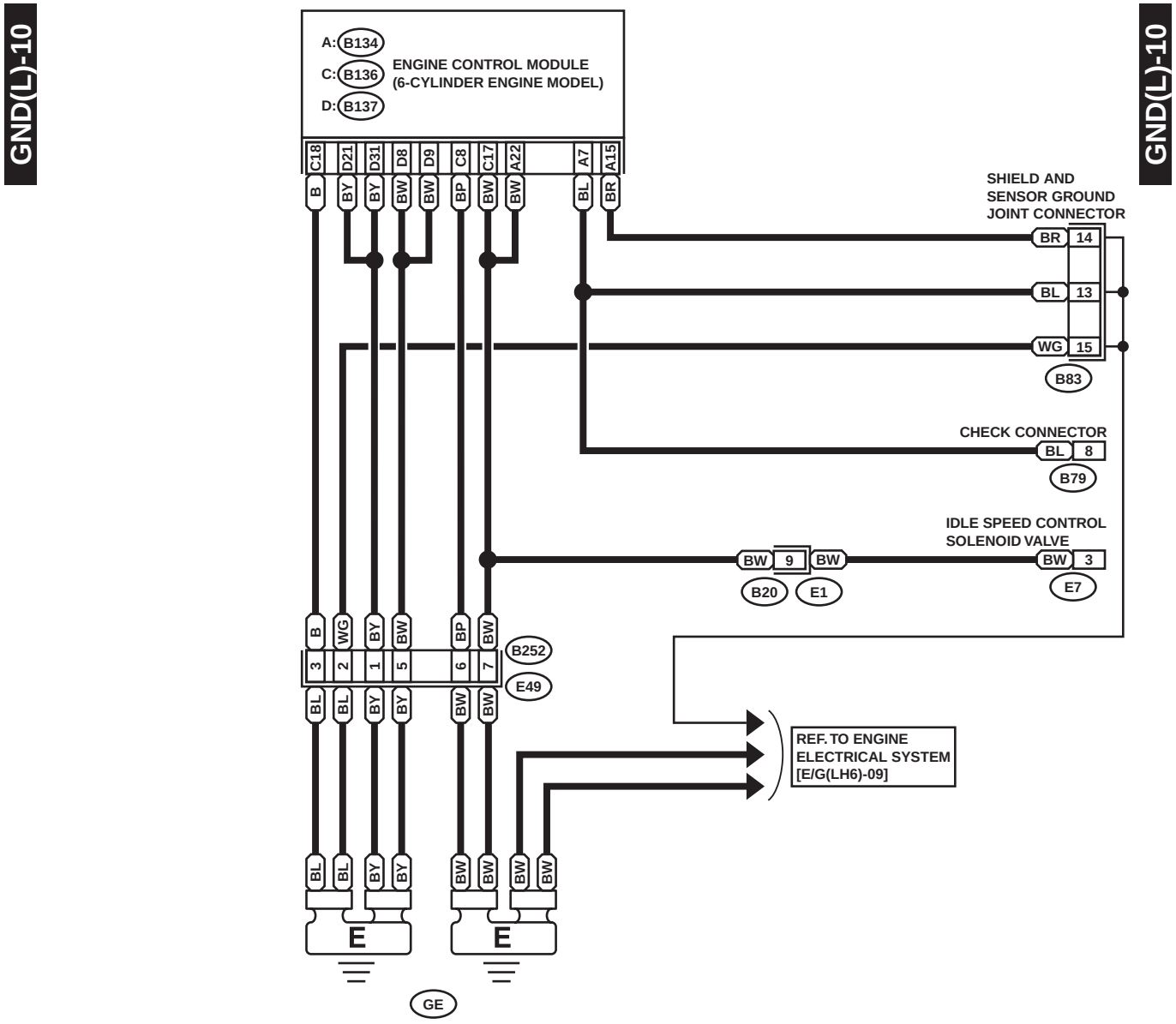
WI-00755

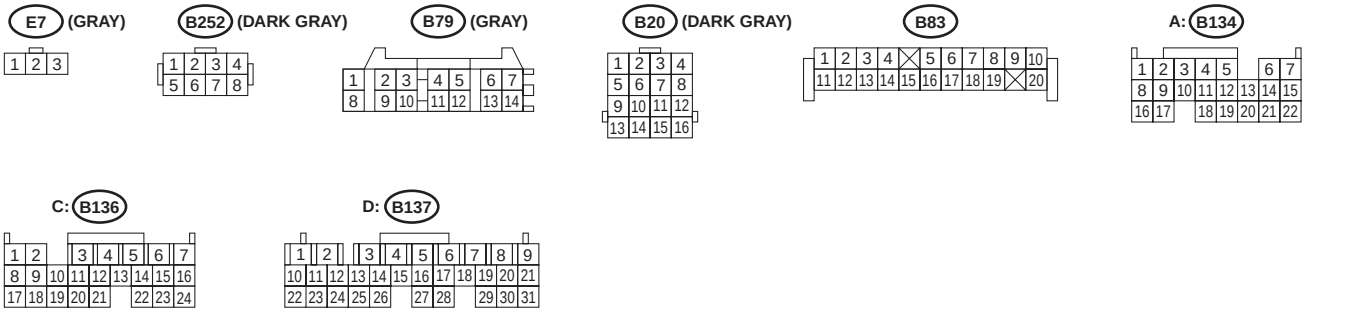
GROUND DISTRIBUTION





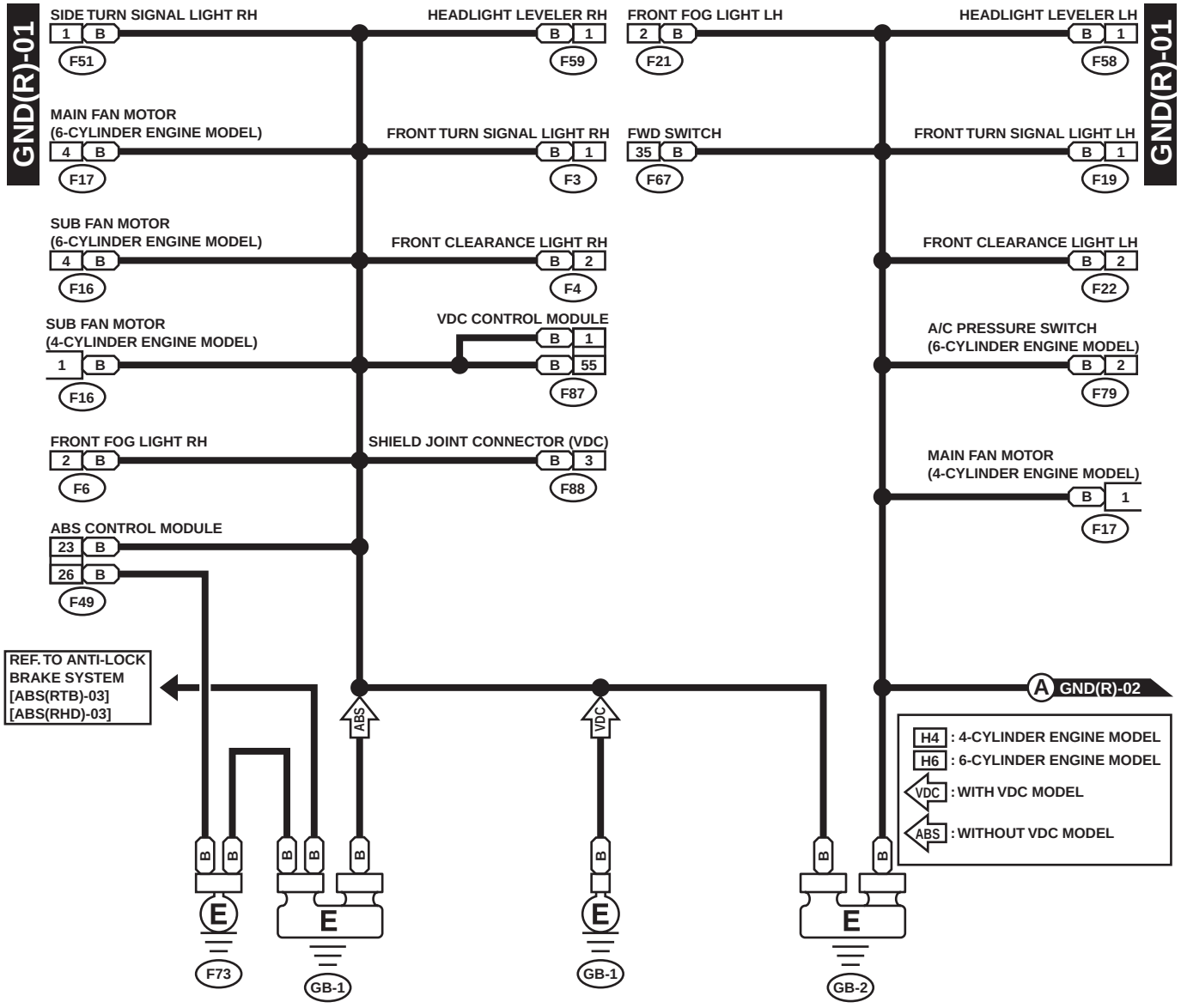
WI-00756

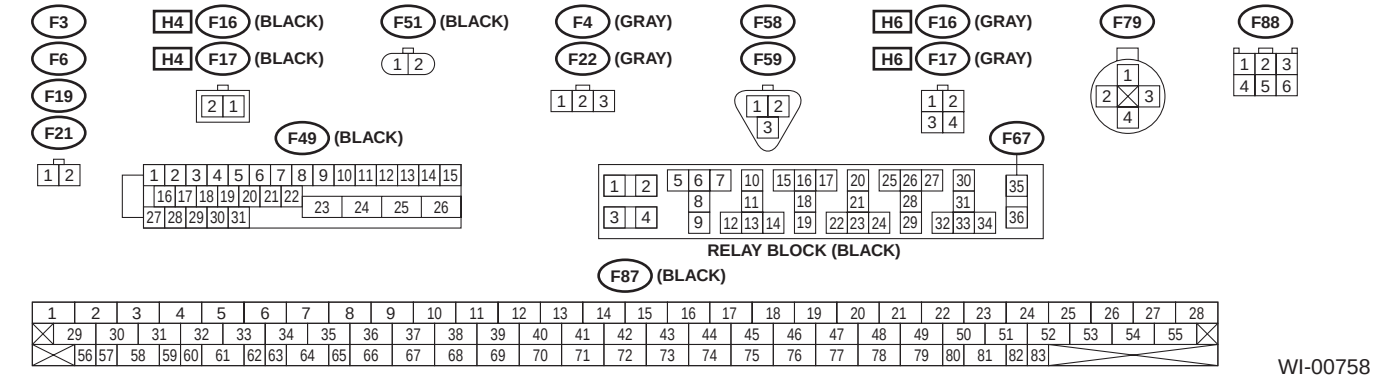

GND(L)-10
GND(L)-10
A: B134
C: B136
D: B137
ENGINE CONTROL MODULE
(6-CYLINDER ENGINE MODEL)
C18 D21 D31 D8 D9 C8 C17 A22 A7 A15
B BY BY BW BW BP BW BW BL BR
SHIELD AND
SENSOR GROUND
JOINT CONNECTOR
BR 14
BL 13
WG 15
B83
CHECK CONNECTOR
BL 8
B79
IDLE SPEED CONTROL
SOLENOID VALVE
BW 9 BW
BW 3
B20 E1
E7
B WG BY BW BP BW
3 2 1 5 6 7
B252
E49
BL BL BY BY BW BW
REF. TO ENGINE
ELECTRICAL SYSTEM
[E/G(LH6)-09]
BL BL BY BY BW BW BW BW
E
E
GE


E7 (GRAY)
B252 (DARK GRAY)
B79 (GRAY)
B20 (DARK GRAY)
B83
A: B134
C: B136
D: B137

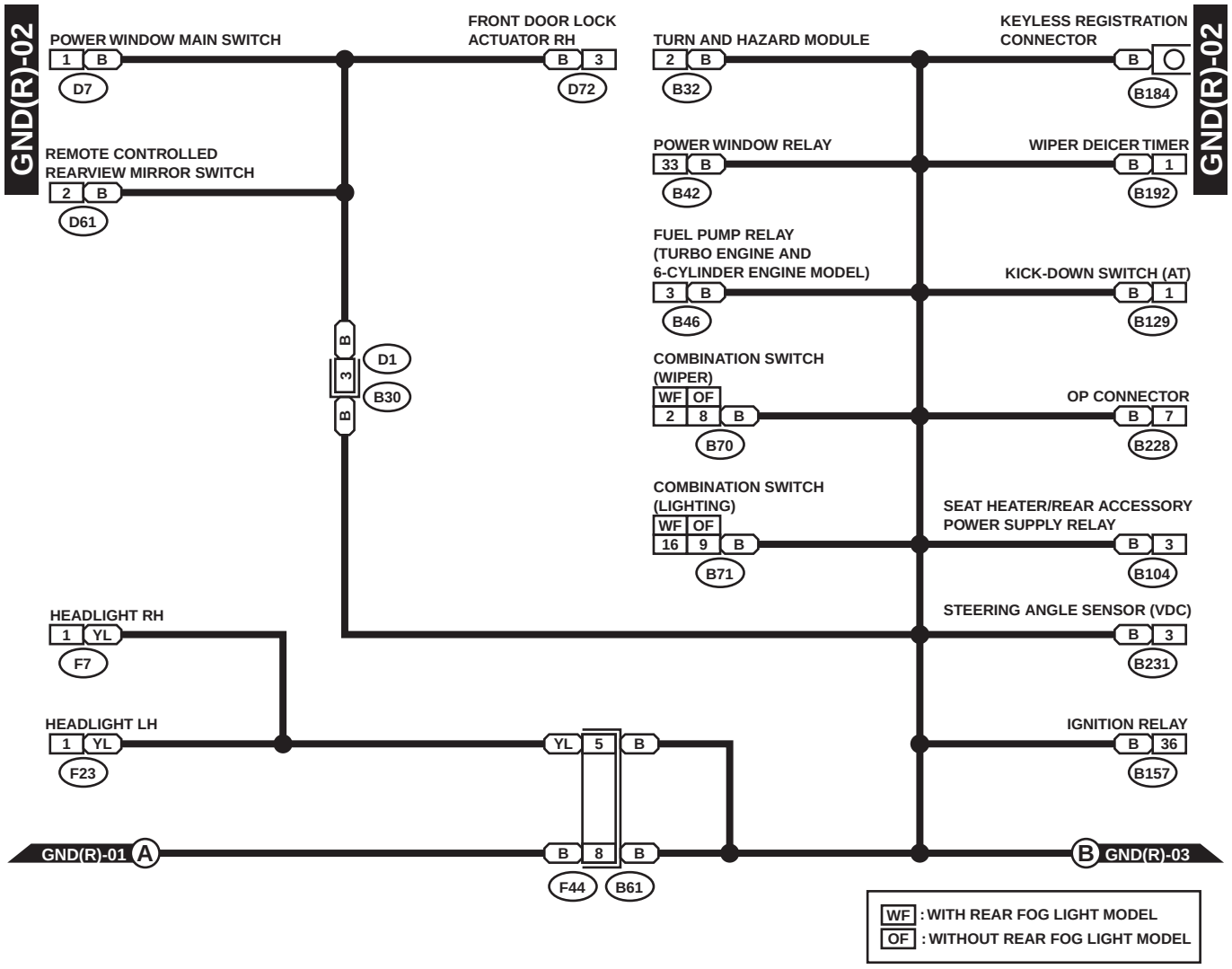
WI-00757

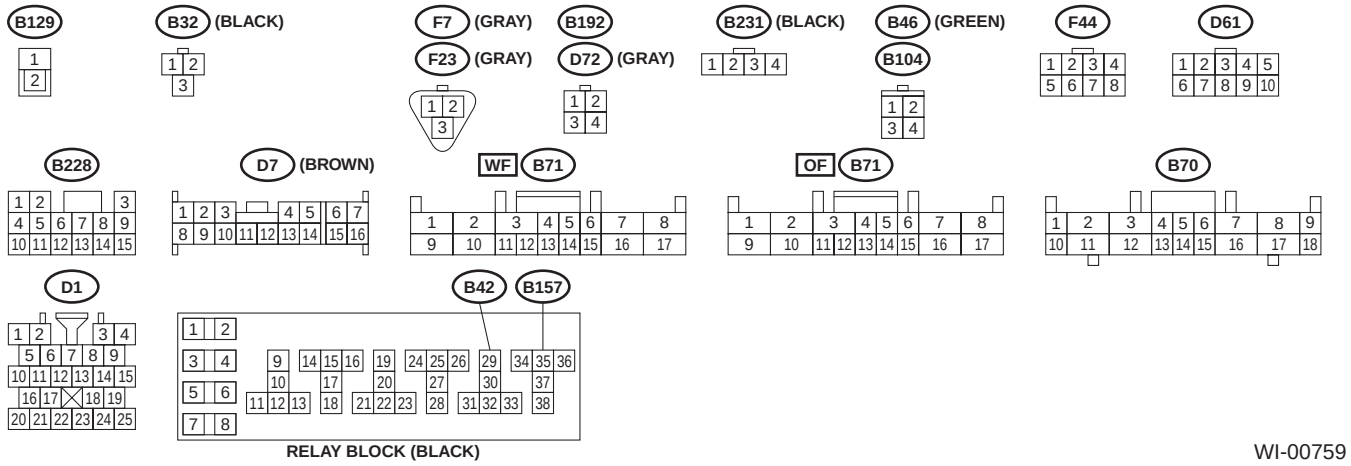
2. RHD MODEL





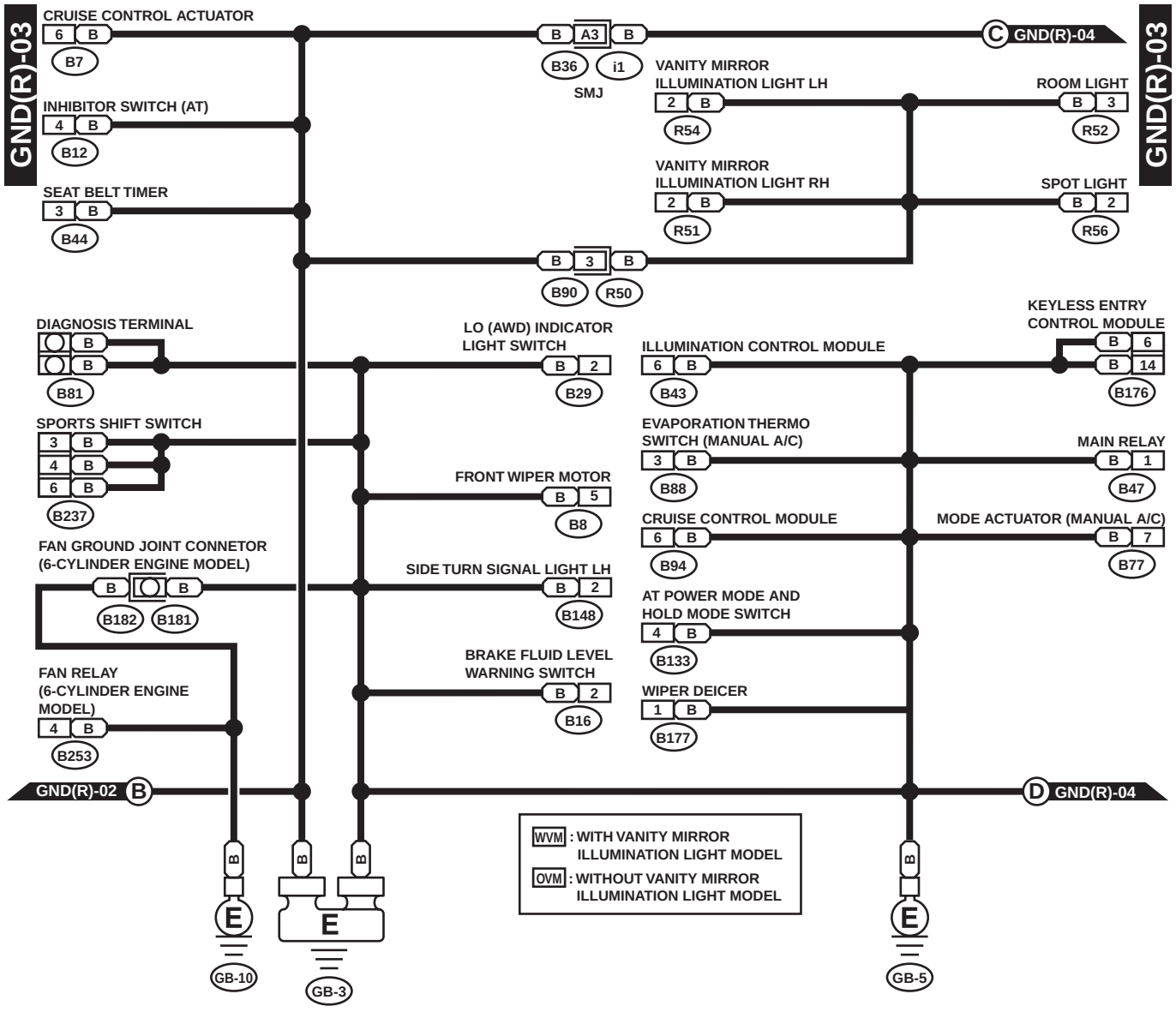
WI-00758

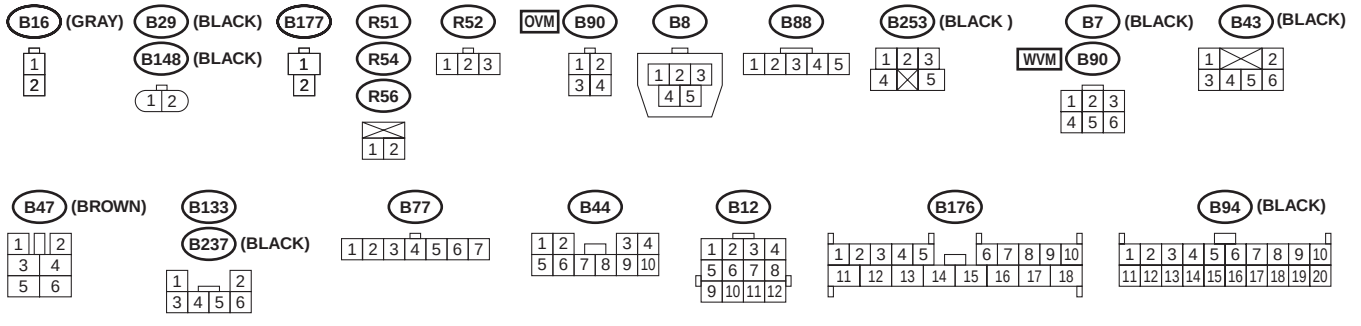

GND(R)-02
POWER WINDOW MAIN SWITCH
1 B
D7
FRONT DOOR LOCK ACTUATOR RH
B 3
D72
REMOTE CONTROLLED REARVIEW MIRROR SWITCH
2 B
D61
B D1 3 B30
TURN AND HAZARD MODULE
2 B
B32
KEYLESS REGISTRATION CONNECTOR
B
B184
GND(R)-02
POWER WINDOW RELAY
33 B
B42
WIPER DEICER TIMER
B 1
B192
FUEL PUMP RELAY (TURBO ENGINE AND 6-CYLINDER ENGINE MODEL)
3 B
B46
KICK-DOWN SWITCH (AT)
B 1
B129
COMBINATION SWITCH (WIPER)
WF OF
2 8 B
B70
OP CONNECTOR
B 7
B228
COMBINATION SWITCH (LIGHTING)
WF OF
16 9 B
B71
SEAT HEATER/REAR ACCESSORY POWER SUPPLY RELAY
B 3
B104
STEERING ANGLE SENSOR (VDC)
B 3
B231
HEADLIGHT RH
1 YL
F7
HEADLIGHT LH
1 YL
F23
YL 5 B
IGNITION RELAY
B 36
B157
GND(R)-01 A
B 8 B
F44 B61
B GND(R)-03
WF : WITH REAR FOG LIGHT MODEL
OF : WITHOUT REAR FOG LIGHT MODEL


B129
B32 (BLACK)
F7 (GRAY)
F23 (GRAY)
B192
D72 (GRAY)
B231 (BLACK)
B46 (GREEN)
B104
F44
D61
B228
D7 (BROWN)
WF B71
OF B71
B70
D1
B42 B157
RELAY BLOCK (BLACK)

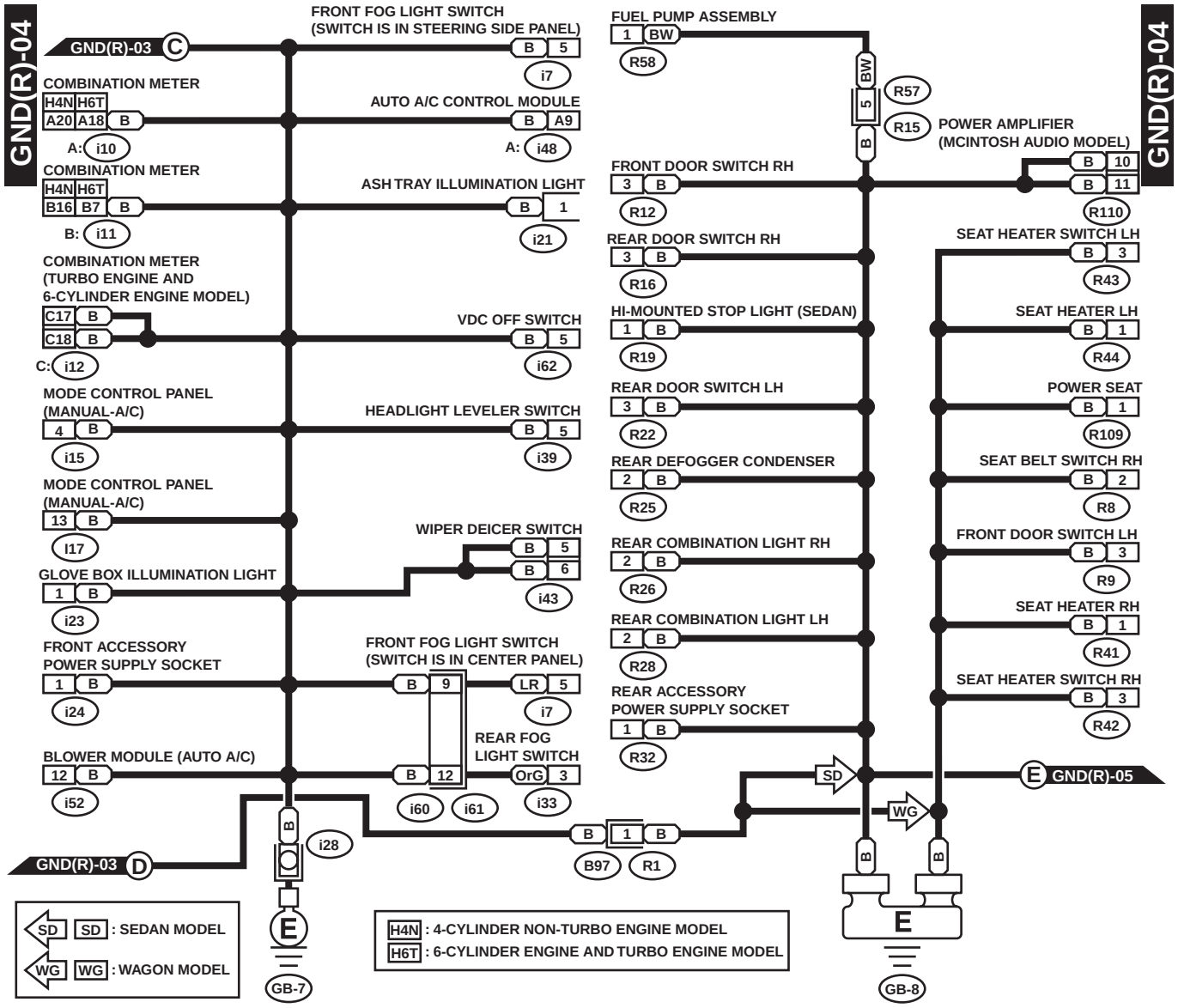
WI-00759

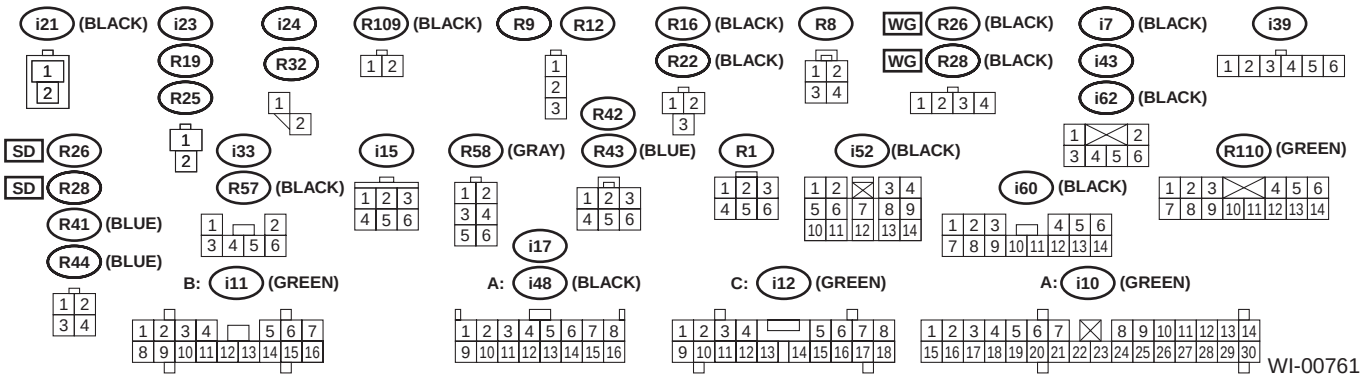
GROUND DISTRIBUTION



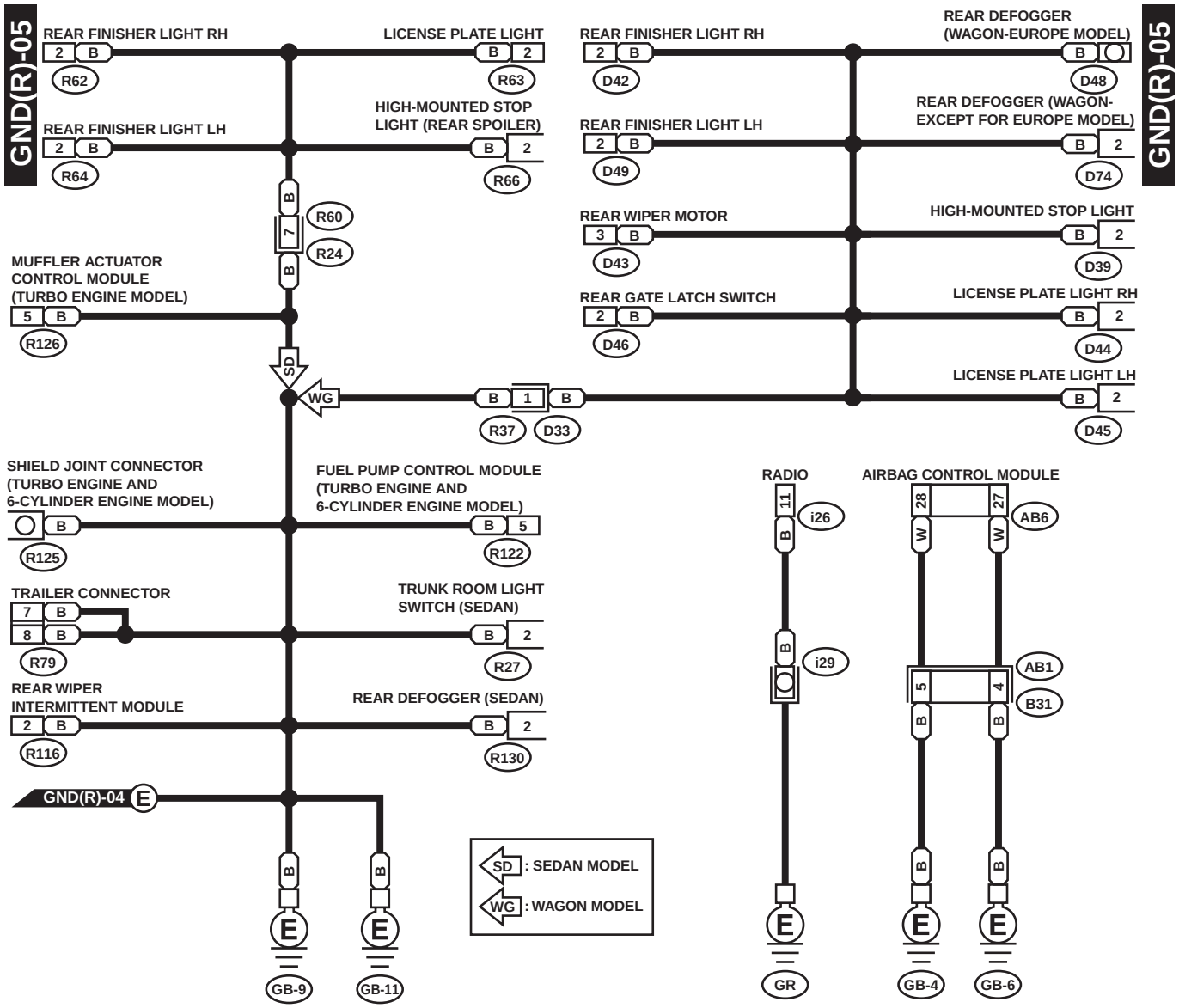


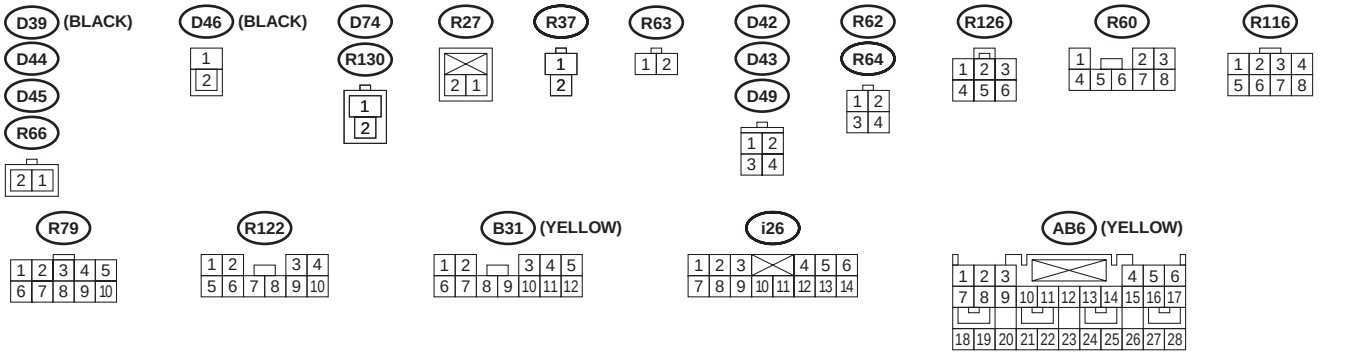
WI-00760


GND(R)-04
GND(R)-03 C
FRONT FOG LIGHT SWITCH (SWITCH IS IN STEERING SIDE PANEL)
B 5
i7
COMBINATION METER
H4N H6T
A20 A18 B
A: i10
AUTO A/C CONTROL MODULE
B A9
A: i48
COMBINATION METER
H4N H6T
B16 B7 B
B: i11
ASH TRAY ILLUMINATION LIGHT
B 1
i21
COMBINATION METER (TURBO ENGINE AND 6-CYLINDER ENGINE MODEL)
C17 B
C18 B
C: i12
VDC OFF SWITCH
B 5
i62
MODE CONTROL PANEL (MANUAL-A/C)
4 B
i15
HEADLIGHT LEVELER SWITCH
B 5
i39
MODE CONTROL PANEL (MANUAL-A/C)
13 B
I17
WIPER DEICER SWITCH
B 5
B 6
i43
GLOVE BOX ILLUMINATION LIGHT
1 B
i23
FRONT ACCESSORY POWER SUPPLY SOCKET
1 B
i24
FRONT FOG LIGHT SWITCH (SWITCH IS IN CENTER PANEL)
B 9
LR 5
i7
REAR FOG LIGHT SWITCH
B 12
OrG 3
i33
BLOWER MODULE (AUTO A/C)
12 B
i52
i60 i61
GND(R)-03 D
B i28
E
GB-7
B 1 B
B97 R1
FUEL PUMP ASSEMBLY
1 BW
R58
BW 5 B
R57
R15
POWER AMPLIFIER (MCINTOSH AUDIO MODEL)
B 10
B 11
R110
FRONT DOOR SWITCH RH
3 B
R12
REAR DOOR SWITCH RH
3 B
R16
HI-MOUNTED STOP LIGHT (SEDAN)
1 B
R19
REAR DOOR SWITCH LH
3 B
R22
REAR DEFOGGER CONDENSER
2 B
R25
REAR COMBINATION LIGHT RH
2 B
R26
REAR COMBINATION LIGHT LH
2 B
R28
REAR ACCESSORY POWER SUPPLY SOCKET
1 B
R32
SD
WG
B B
E
GB-8
E GND(R)-05
SEAT HEATER SWITCH LH
B 3
R43
SEAT HEATER LH
B 1
R44
POWER SEAT
B 1
R109
SEAT BELT SWITCH RH
B 2
R8
FRONT DOOR SWITCH LH
B 3
R9
SEAT HEATER RH
B 1
R41
SEAT HEATER SWITCH RH
B 3
R42
SD : SEDAN MODEL
WG : WAGON MODEL
H4N : 4-CYLINDER NON-TURBO ENGINE MODEL
H6T : 6-CYLINDER ENGINE AND TURBO ENGINE MODEL

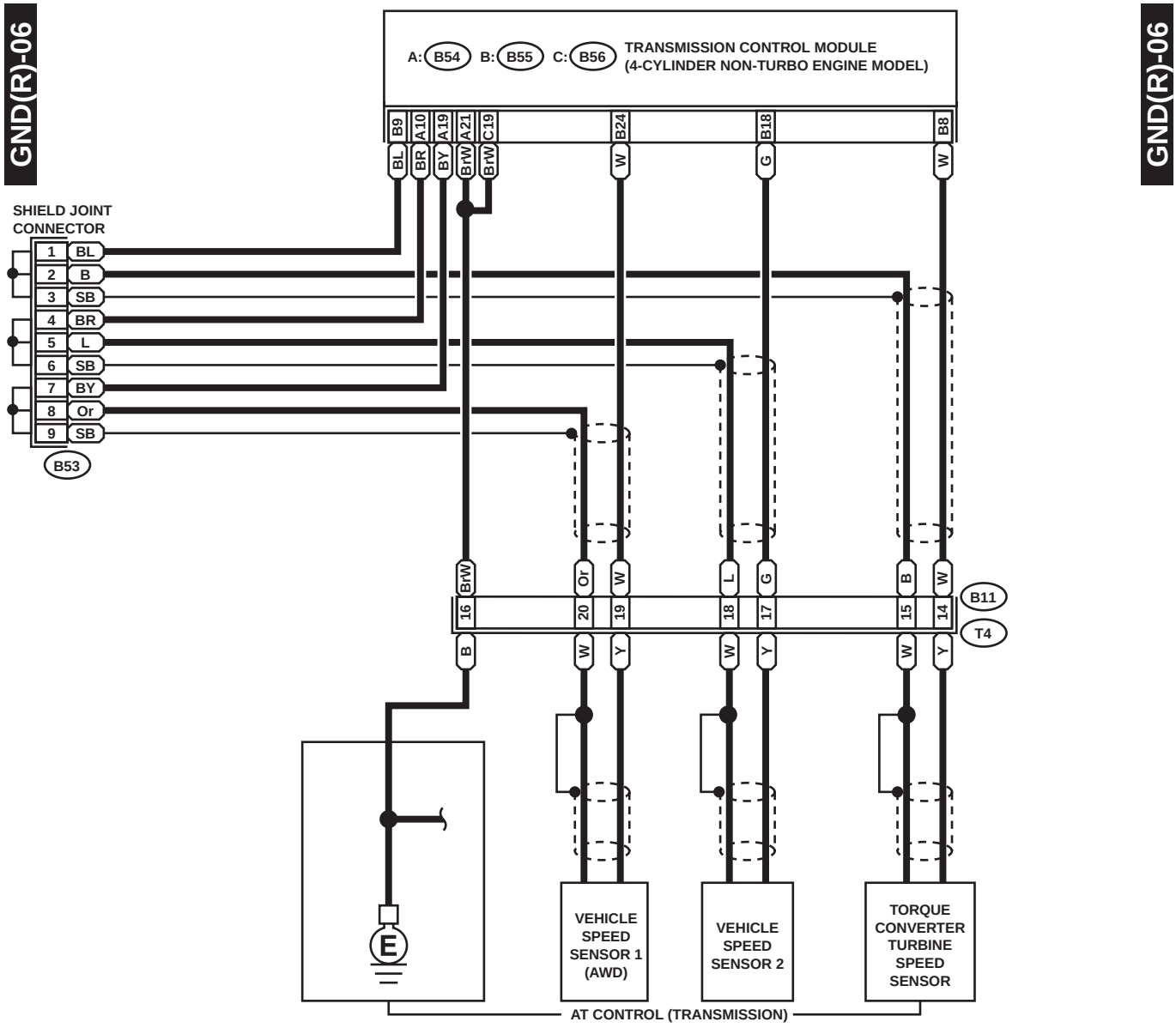

i21 (BLACK)
i23
R19
R25
i24
R32
R109 (BLACK)
R9
R12
R42
R16 (BLACK)
R22 (BLACK)
R8
WG R26 (BLACK)
WG R28 (BLACK)
i7 (BLACK)
i43
i62 (BLACK)
i39
SD R26
SD R28
R41 (BLUE)
R44 (BLUE)
i33
R57 (BLACK)
i15
R58 (GRAY)
R43 (BLUE)
R1
i52 (BLACK)
i60 (BLACK)
R110 (GREEN)
B: i11 (GREEN)
i17
A: i48 (BLACK)
C: i12 (GREEN)
A: i10 (GREEN)
WI-00761

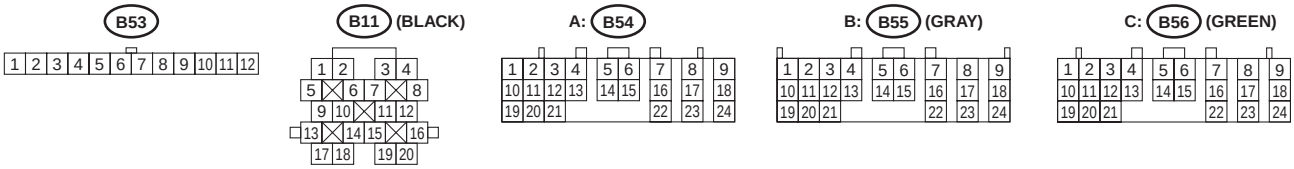
GROUND DISTRIBUTION





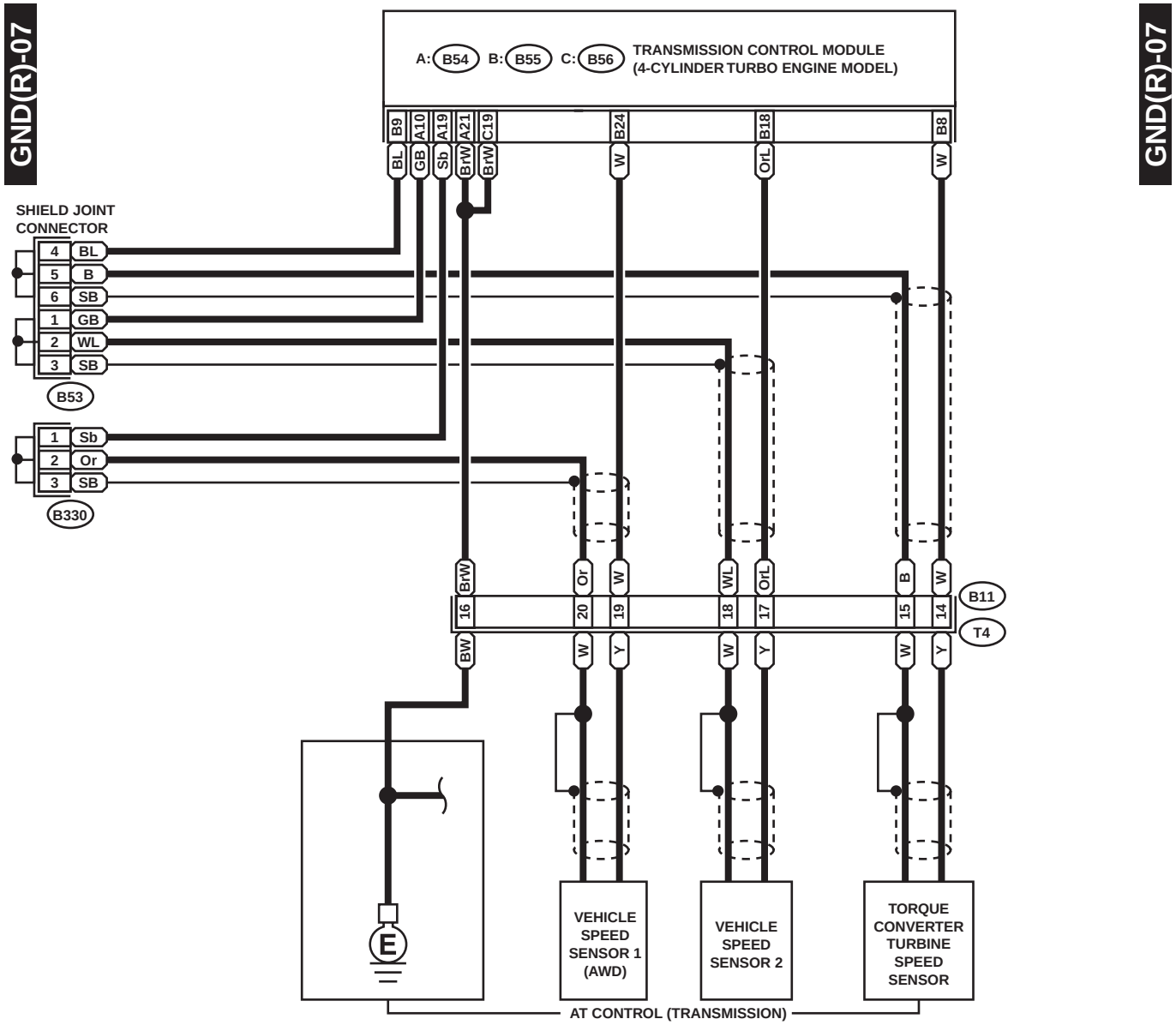
WI-00762

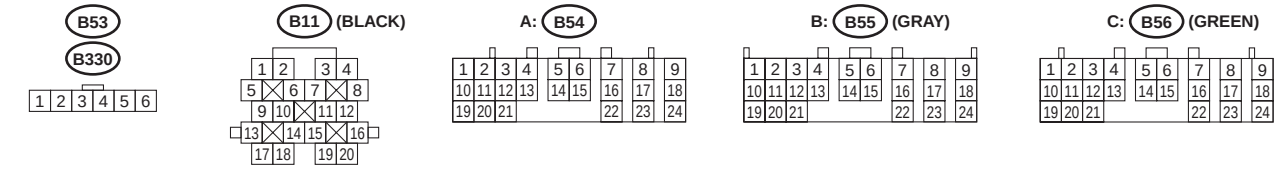

GND(R)-06
GND(R)-06
A: B54 B: B55 C: B56
TRANSMISSION CONTROL MODULE
(4-CYLINDER NON-TURBO ENGINE MODEL)
B9 A10 A19 A21 C19 B24 B18 B8
BL BR BY BrW BrW W G W
SHIELD JOINT CONNECTOR
1 BL
2 B
3 SB
4 BR
5 L
6 SB
7 BY
8 Or
9 SB
B53
BrW Or W L G B W
16 20 19 18 17 15 14
B11
T4
B W Y W Y W Y
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)


B53
1 2 3 4 5 6 7 8 9 10 11 12
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

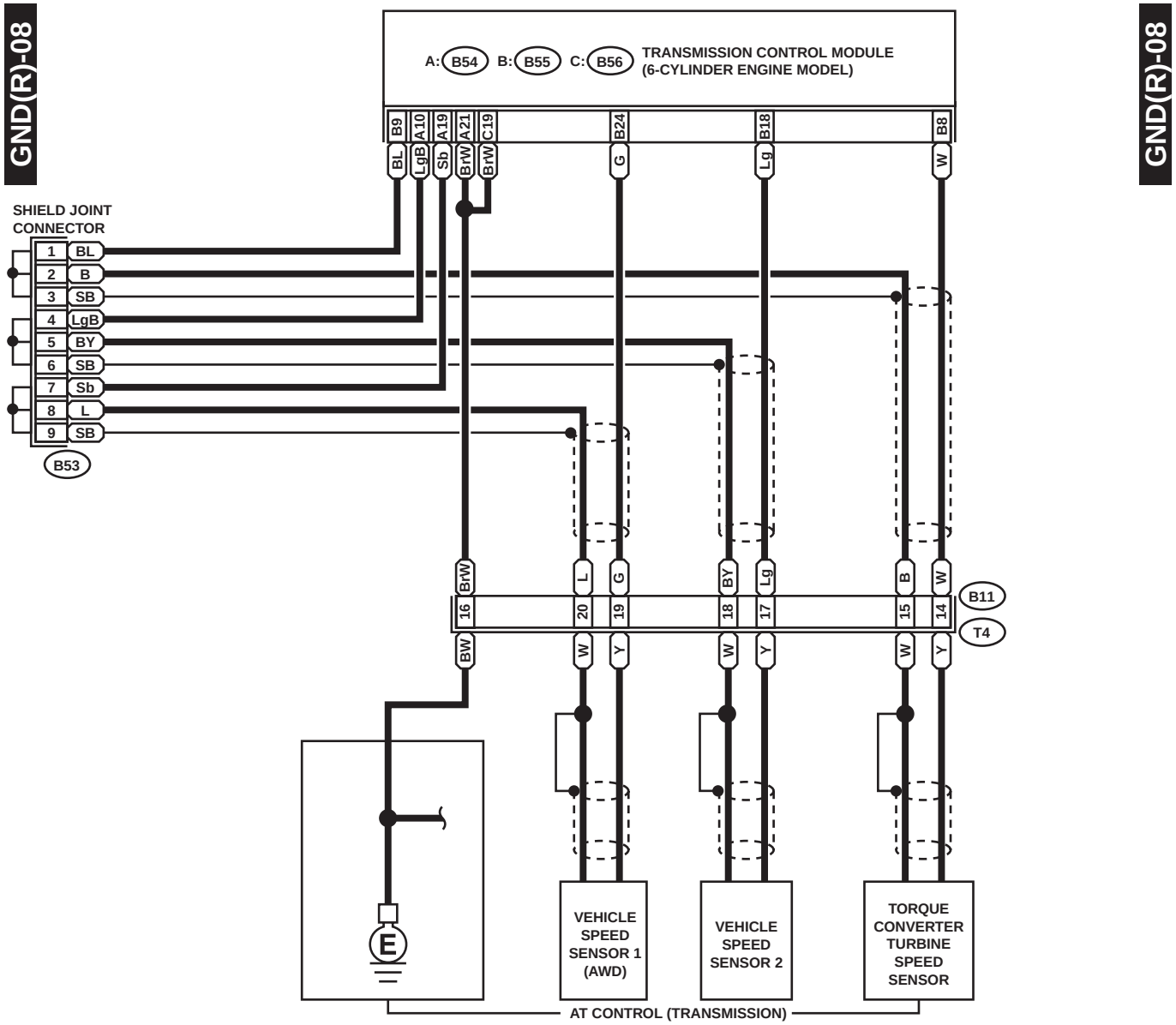
WI-00763

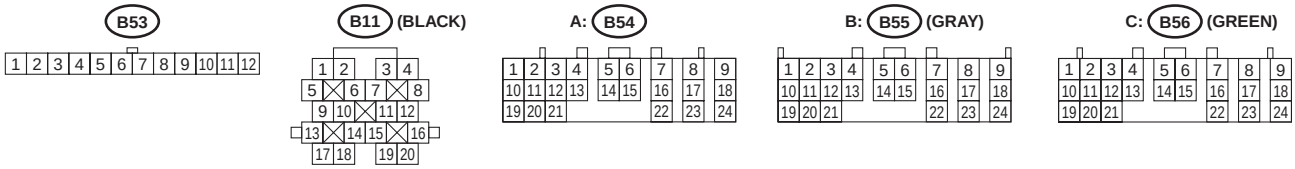
GROUND DISTRIBUTION





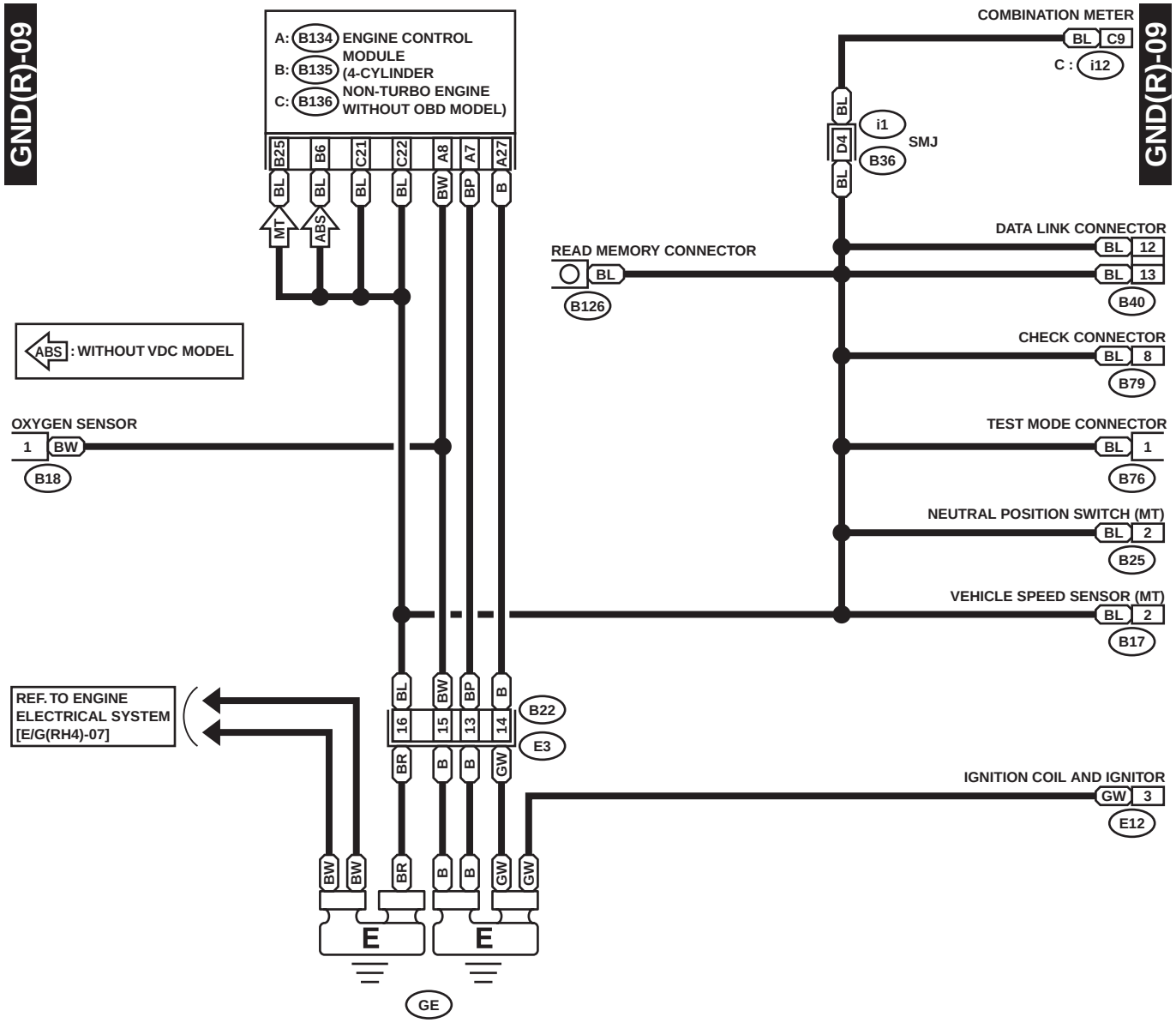
WI-00764

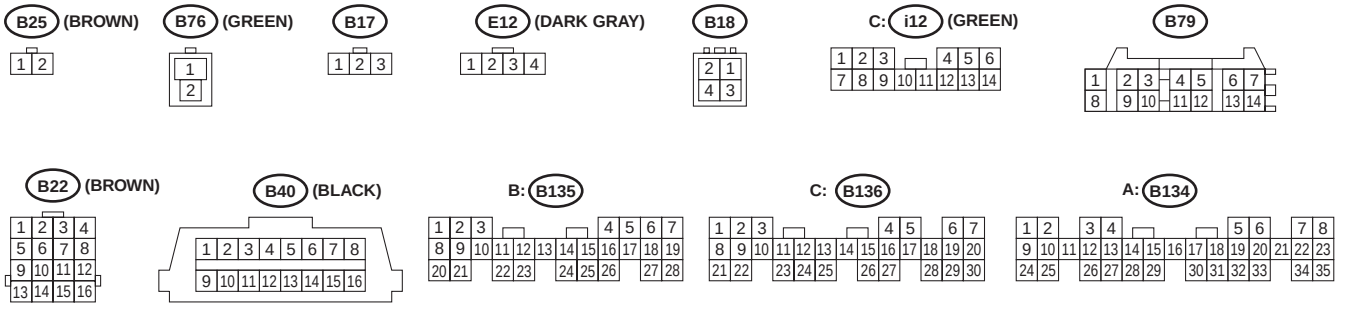

GND(R)-08
GND(R)-08
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE (6-CYLINDER ENGINE MODEL)
B9 A10 A19 A21 C19 B24 B18 B8
BL LgB Sb BrW BrW G Lg W
SHIELD JOINT CONNECTOR
1 BL
2 B
3 SB
4 LgB
5 BY
6 SB
7 Sb
8 L
9 SB
B53
BrW L G BY Lg B W
16 20 19 18 17 15 14
B11
T4
BW W Y W Y W Y
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)


B53
1 2 3 4 5 6 7 8 9 10 11 12
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

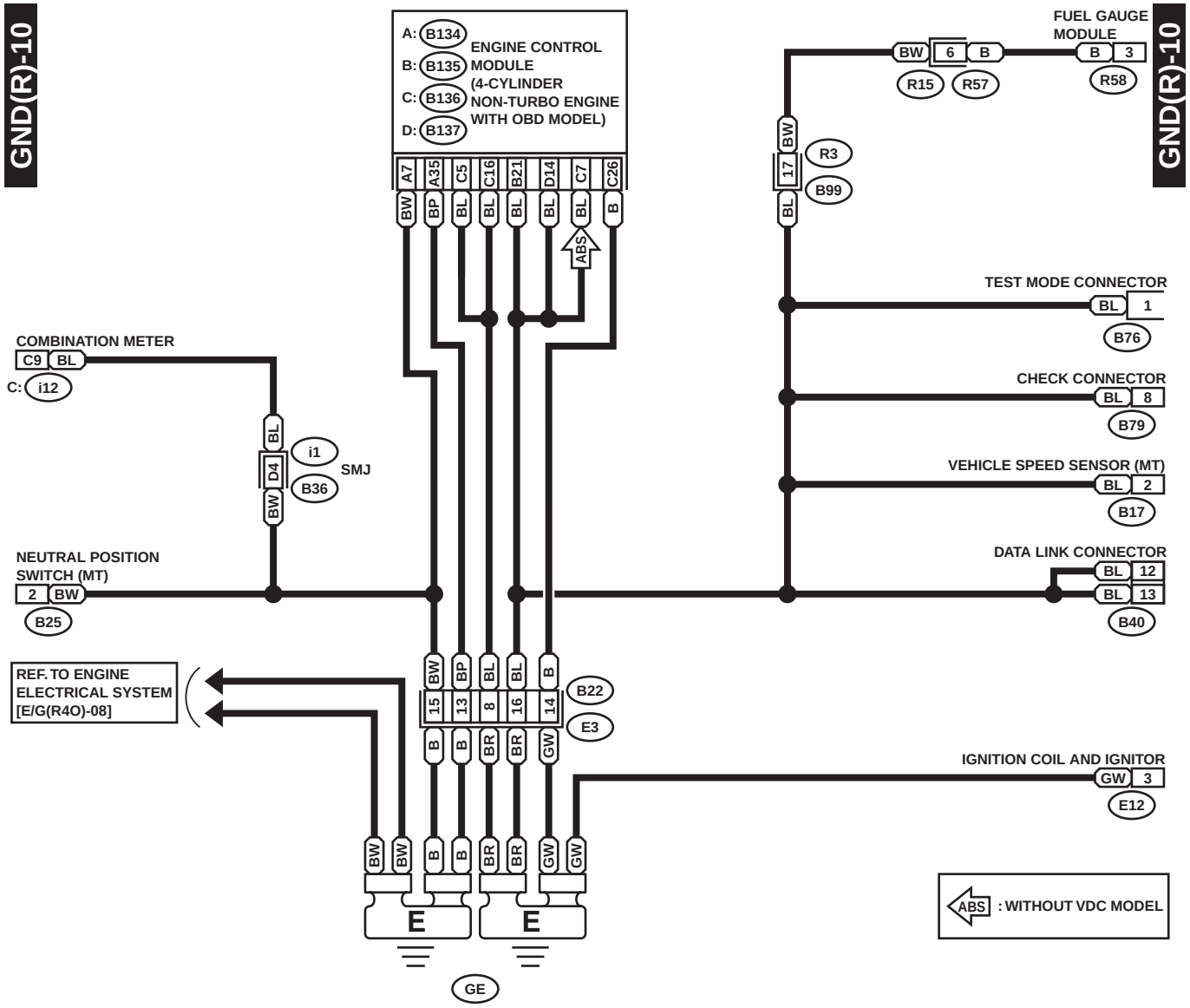
WI-00765

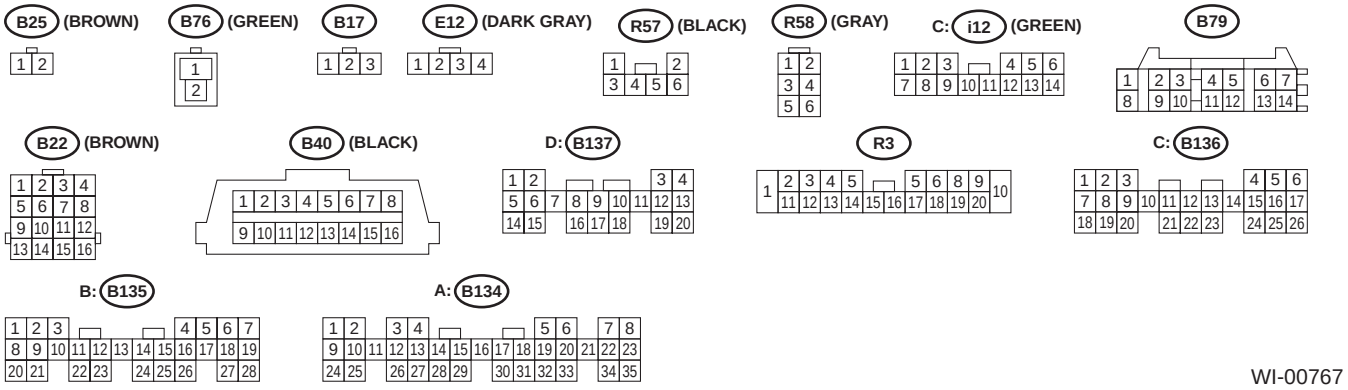
GROUND DISTRIBUTION





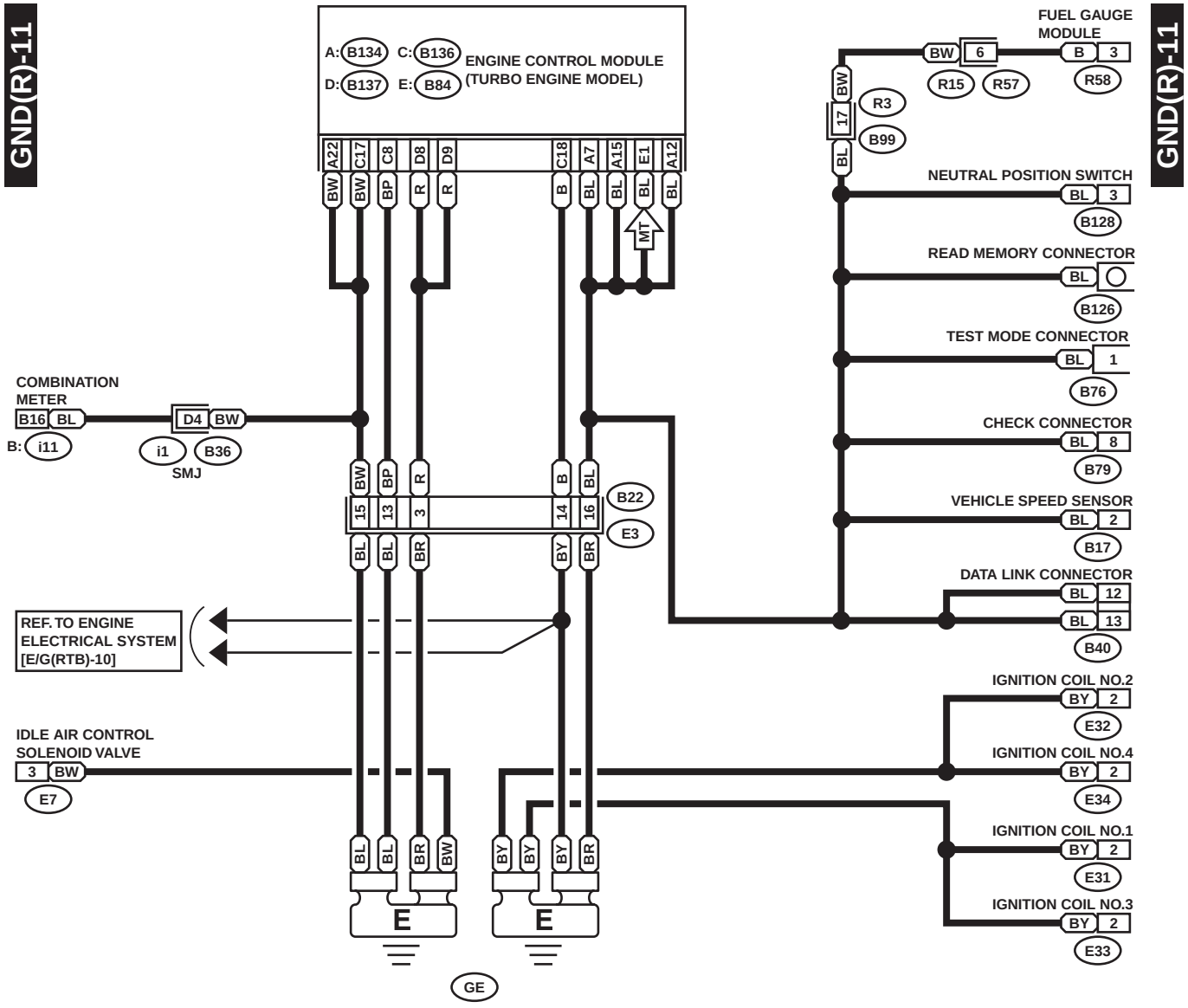
WI-00766

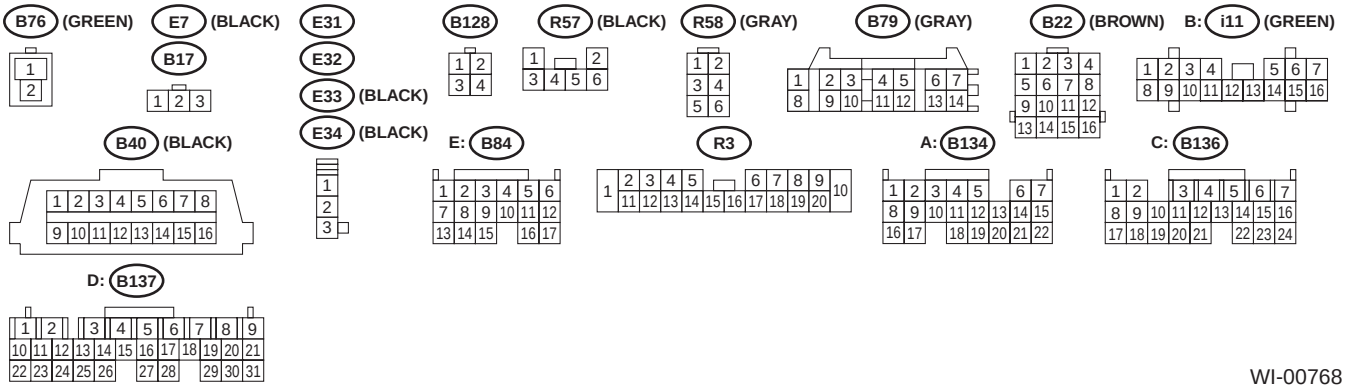

GND(R)-10
GND(R)-10
A: B134
B: B135
C: B136
D: B137
ENGINE CONTROL MODULE (4-CYLINDER NON-TURBO ENGINE WITH OBD MODEL)
A7 A35 C5 C16 B21 D14 C7 C26
BW BP BL BL BL BL BL B
ABS
FUEL GAUGE MODULE
BW 6 B
B 3
R15 R57
R58
BW
17
BL
R3
B99
TEST MODE CONNECTOR
BL 1
B76
CHECK CONNECTOR
BL 8
B79
VEHICLE SPEED SENSOR (MT)
BL 2
B17
DATA LINK CONNECTOR
BL 12
BL 13
B40
COMBINATION METER
C9 BL
C: i12
BL
D4
BW
i1
B36
SMJ
NEUTRAL POSITION SWITCH (MT)
2 BW
B25
REF. TO ENGINE ELECTRICAL SYSTEM [E/G(R4O)-08]
BW BP BL BL B
15 13 8 16 14
B22
E3
B B BR BR GW
IGNITION COIL AND IGNITOR
GW 3
E12
BW BW B B BR BR GW GW
E E
GE
ABS : WITHOUT VDC MODEL


B25 (BROWN)
B76 (GREEN)
B17
E12 (DARK GRAY)
R57 (BLACK)
R58 (GRAY)
C: i12 (GREEN)
B79
B22 (BROWN)
B40 (BLACK)
D: B137
R3
C: B136
B: B135
A: B134

WI-00767

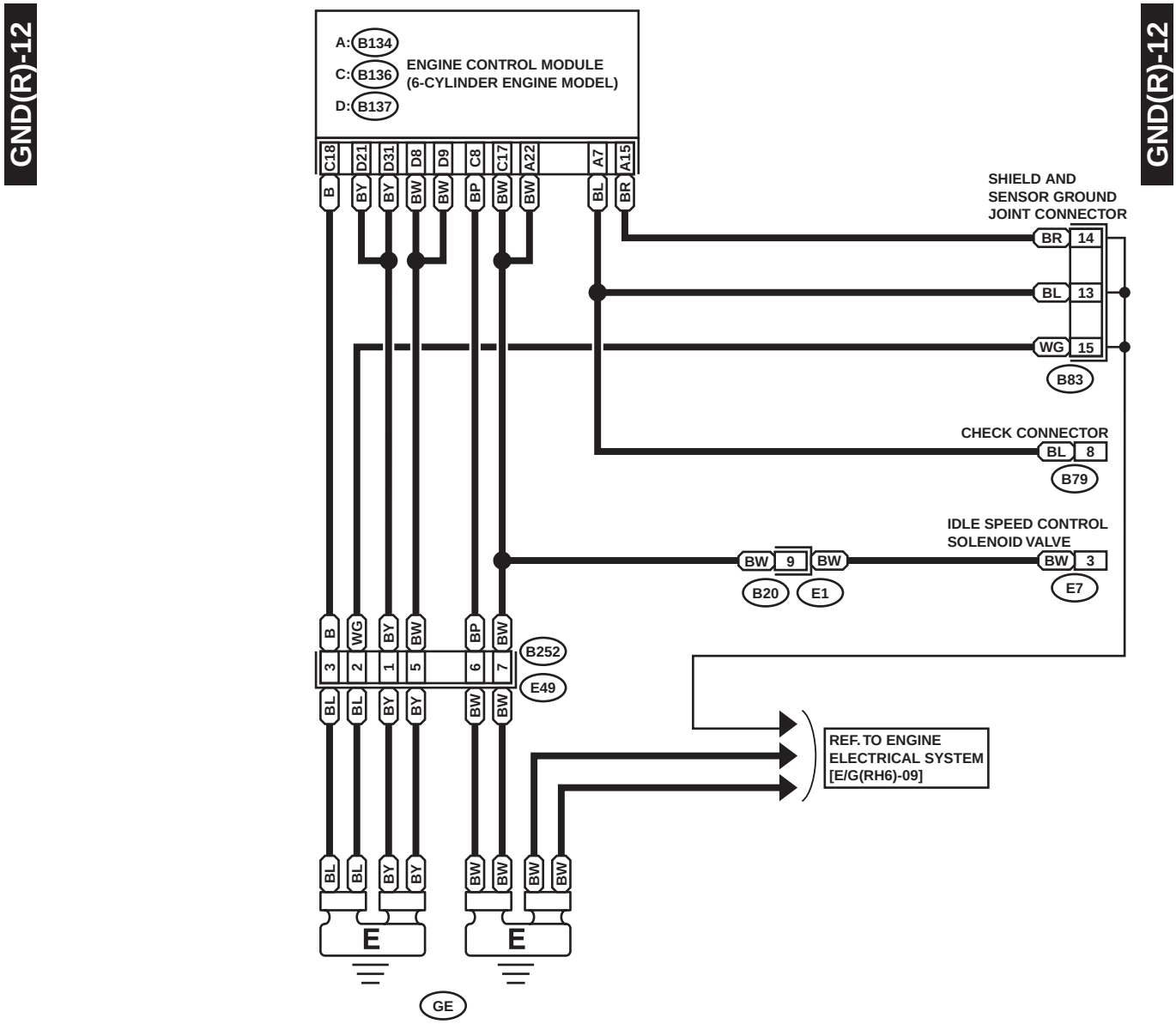
GROUND DISTRIBUTION

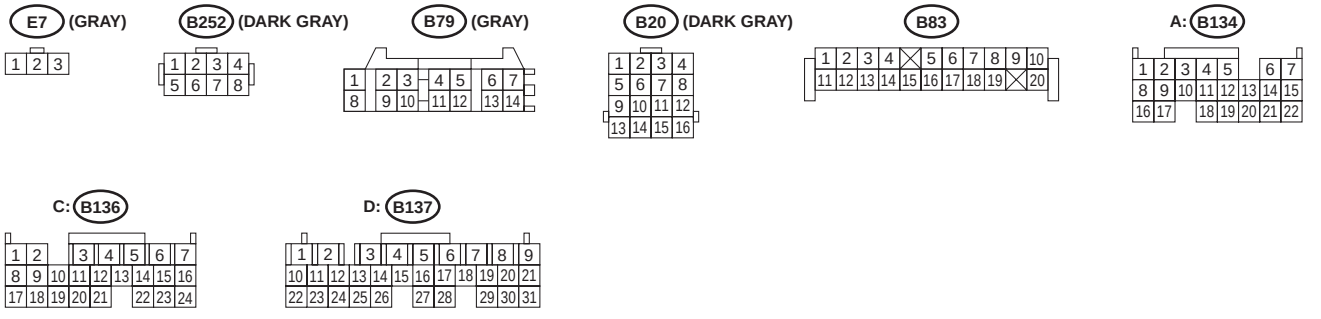




WI-00768

GND(R)-12





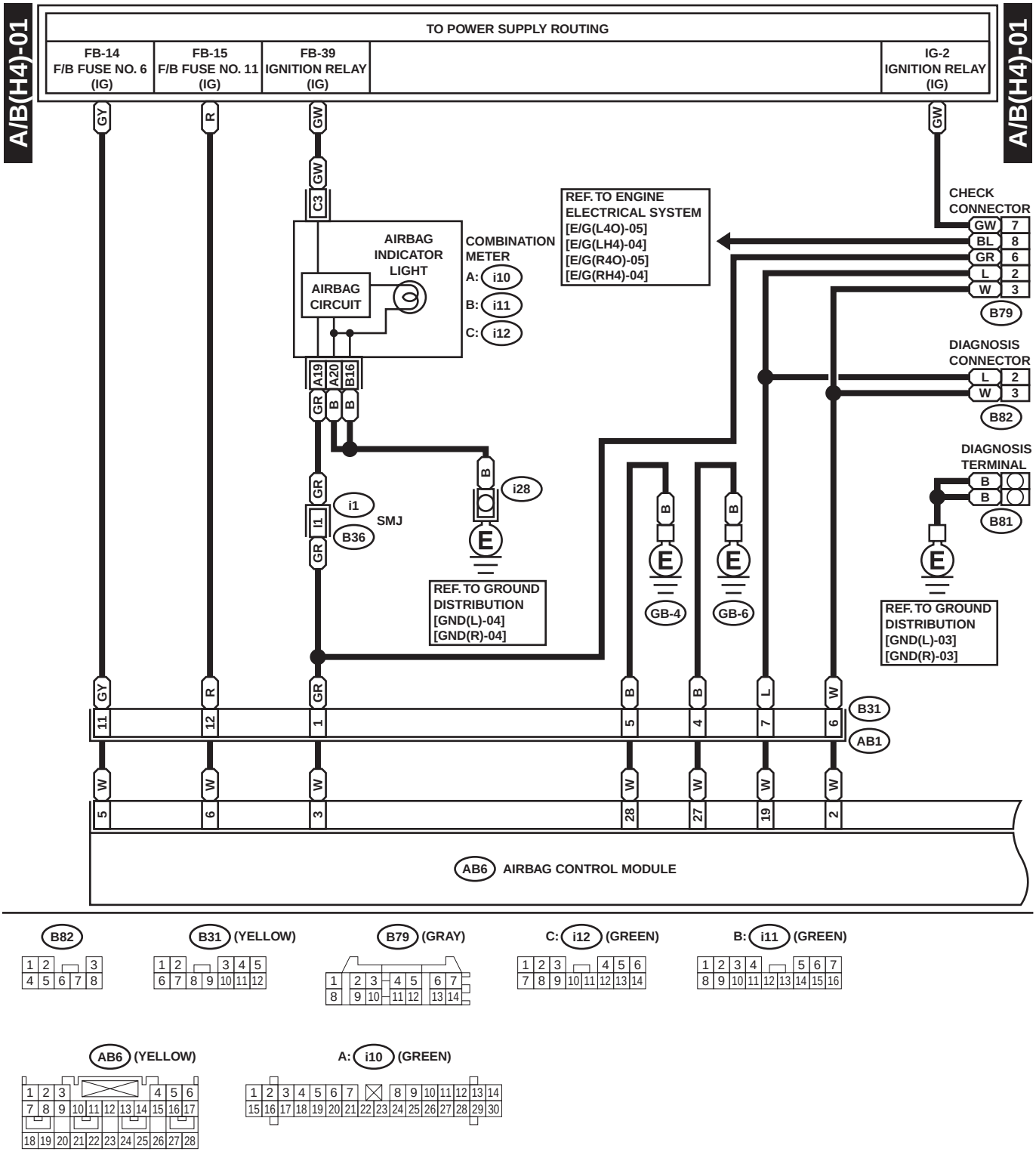
WI-00769

GND(R)-12

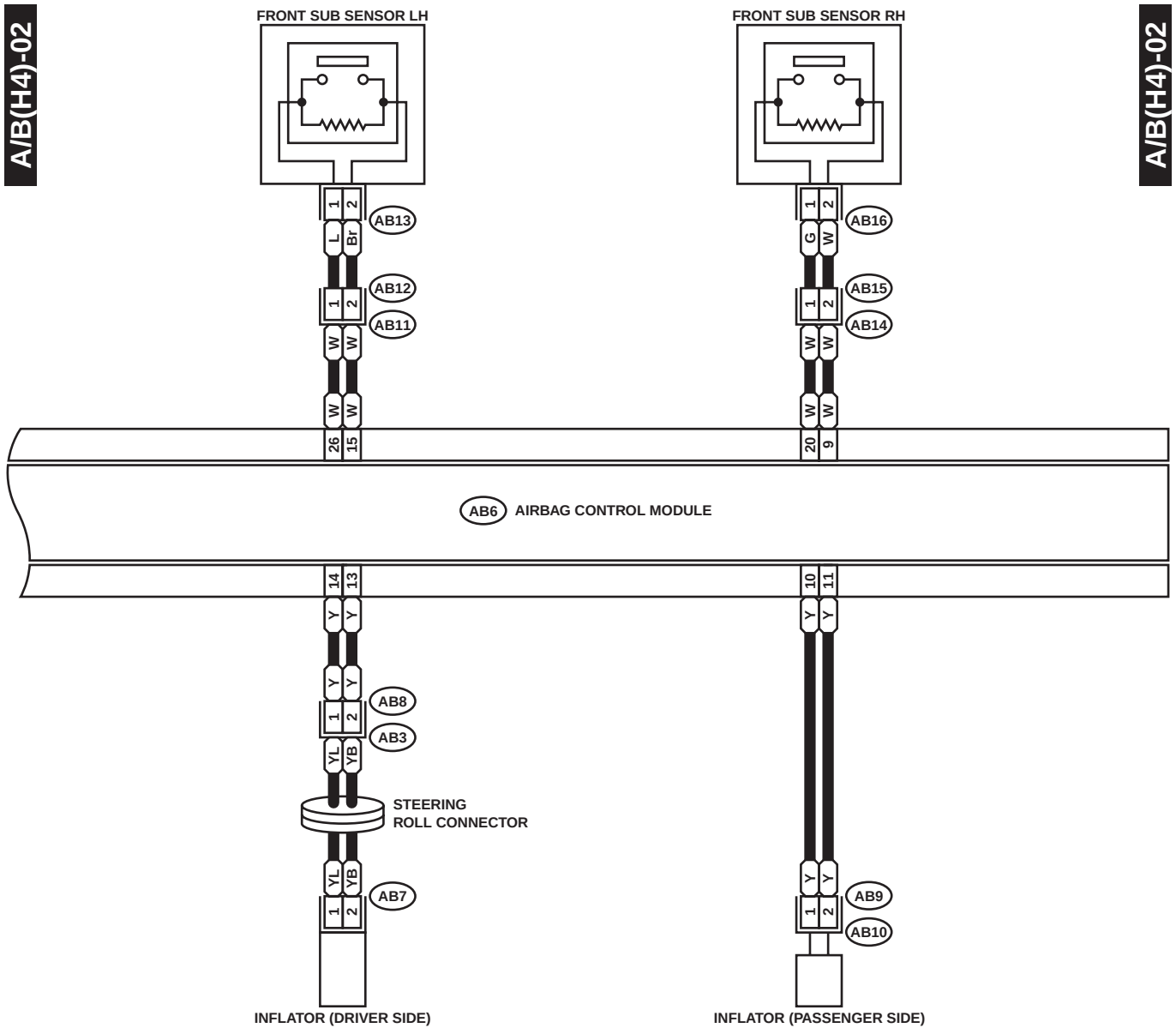
6. Airbag System

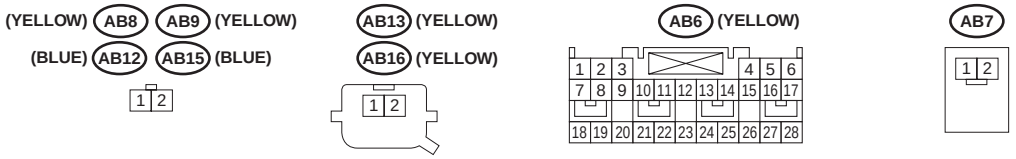
A: SCHEMATIC

1. 4-CYLINDER NON-TURBO ENGINE MODEL

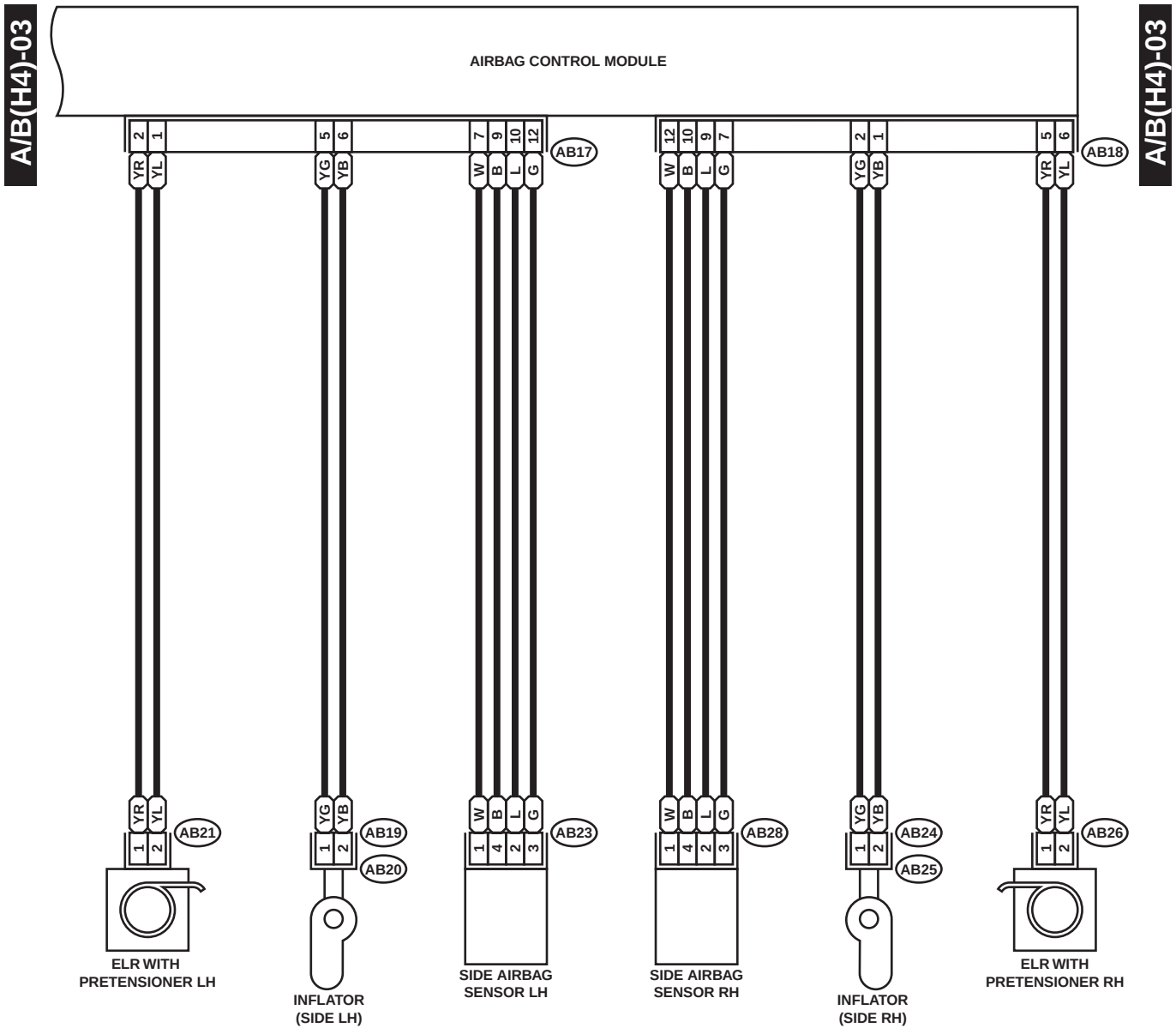


WI-00770


A/B(H4)-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
A/B(H4)-02
AB13
AB12
AB11
AB16
AB15
AB14
AB6 AIRBAG CONTROL MODULE
AB8
AB3
STEERING
ROLL CONNECTOR
AB7
AB9
AB10
INFLATOR (DRIVER SIDE)
INFLATOR (PASSENGER SIDE)


(YELLOW) AB8 AB9 (YELLOW)
(BLUE) AB12 AB15 (BLUE)
AB13 (YELLOW)
AB16 (YELLOW)
AB6 (YELLOW)
AB7

WI-00771



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

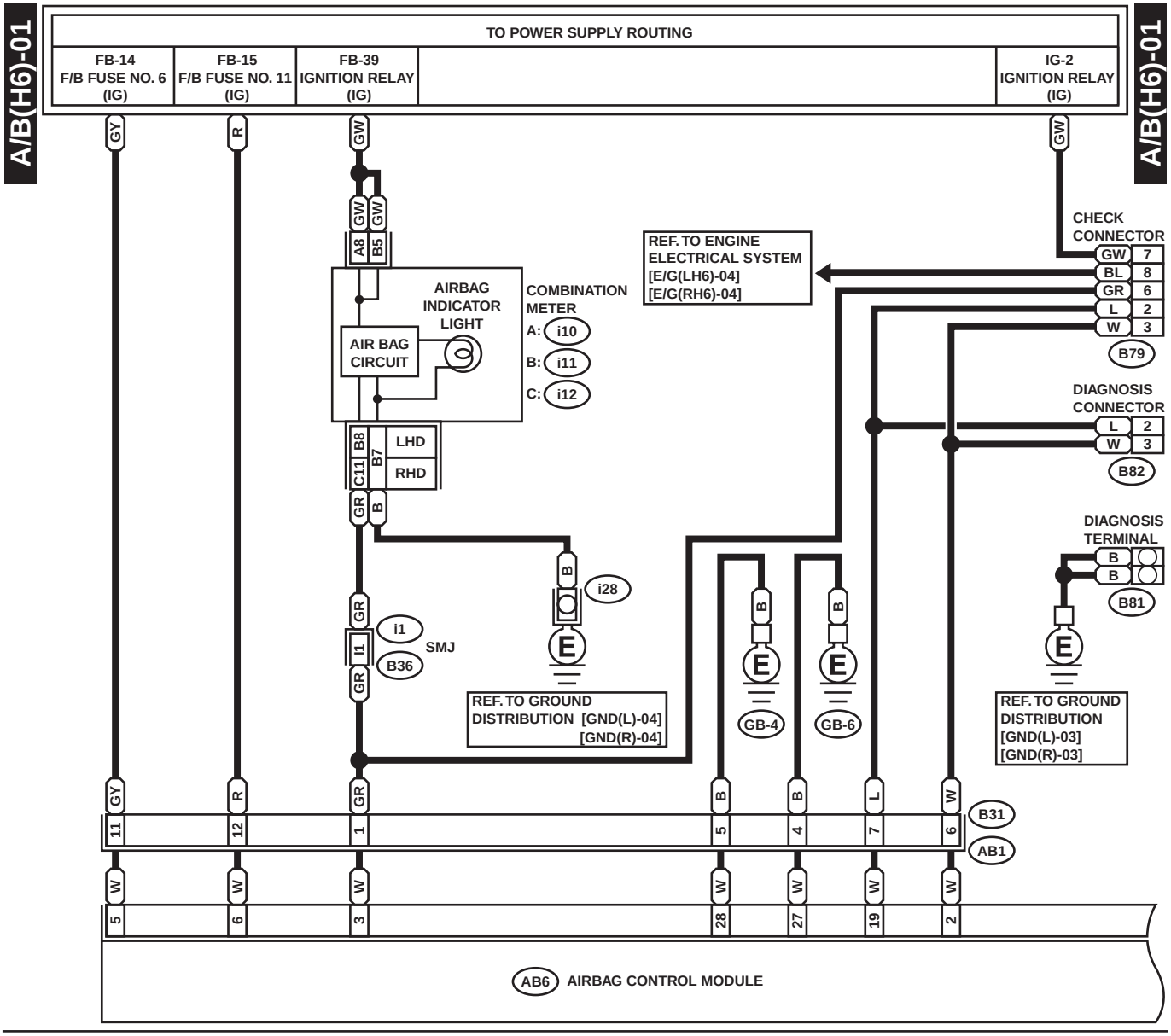
AB23 (YELLOW)
AB28 (YELLOW)

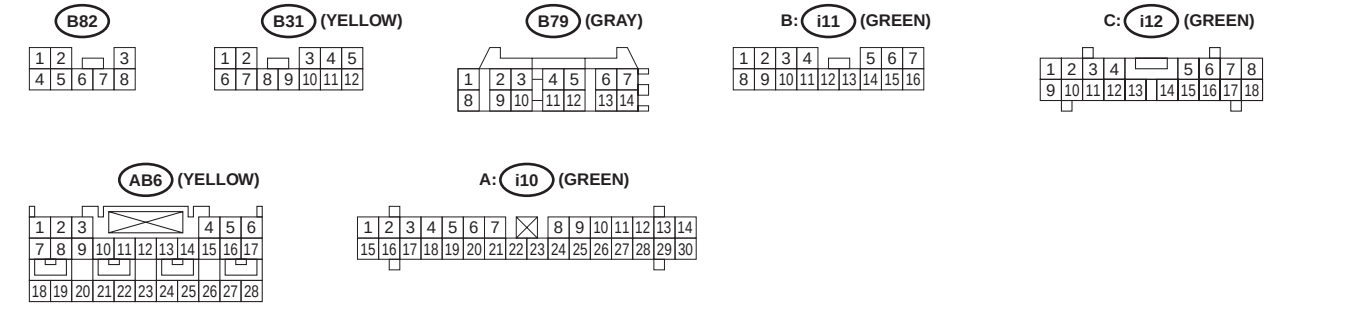
AB17 (YELLOW)

AB18 (YELLOW)

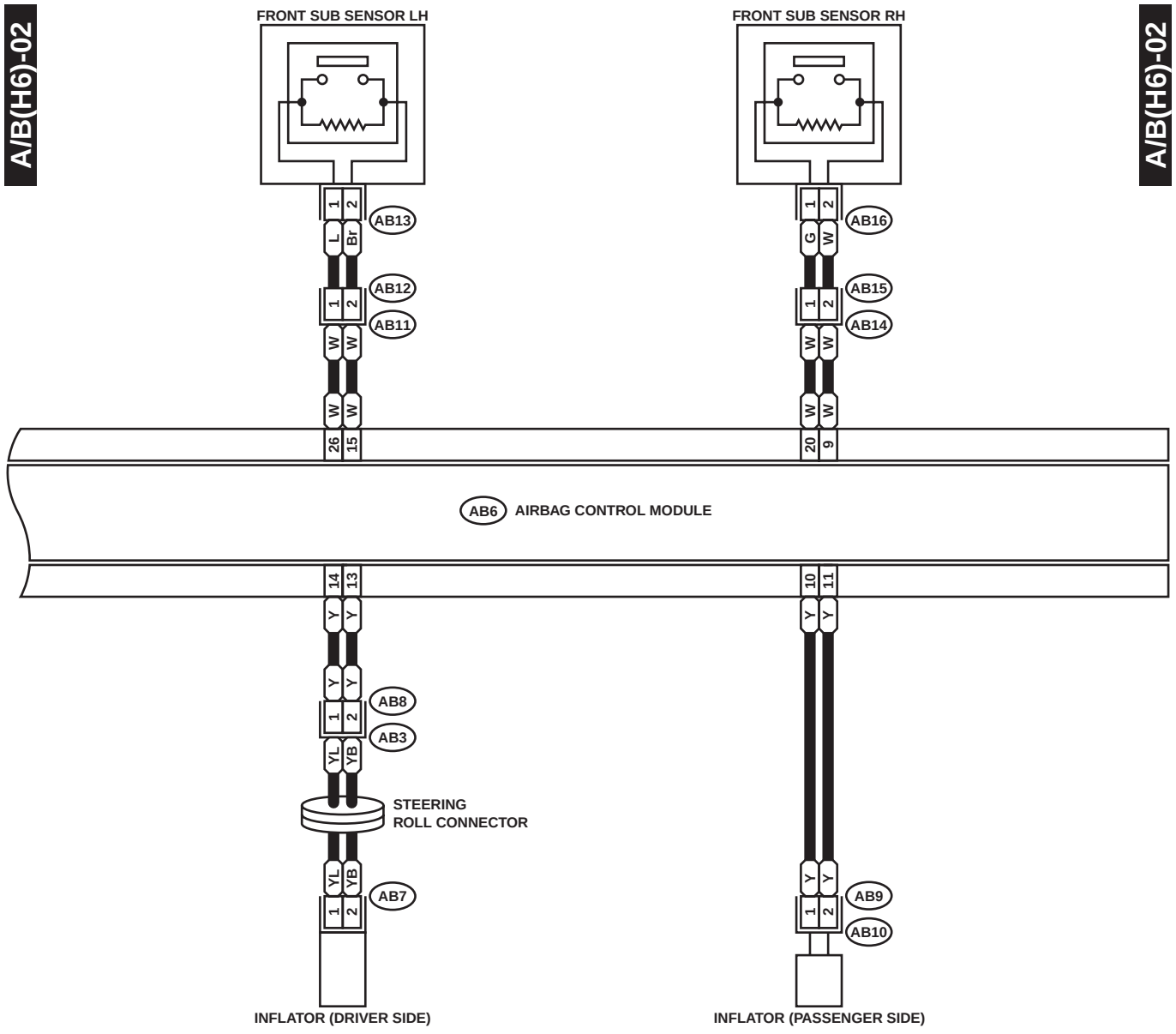
WI-00772

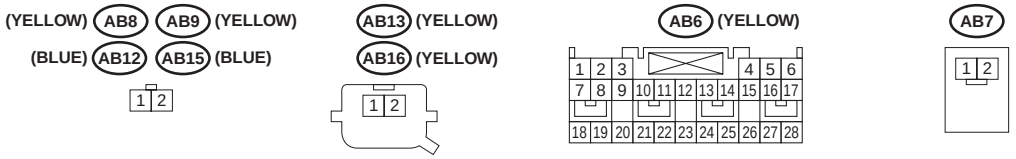
2. 6-CYLINDER ENGINE MODEL



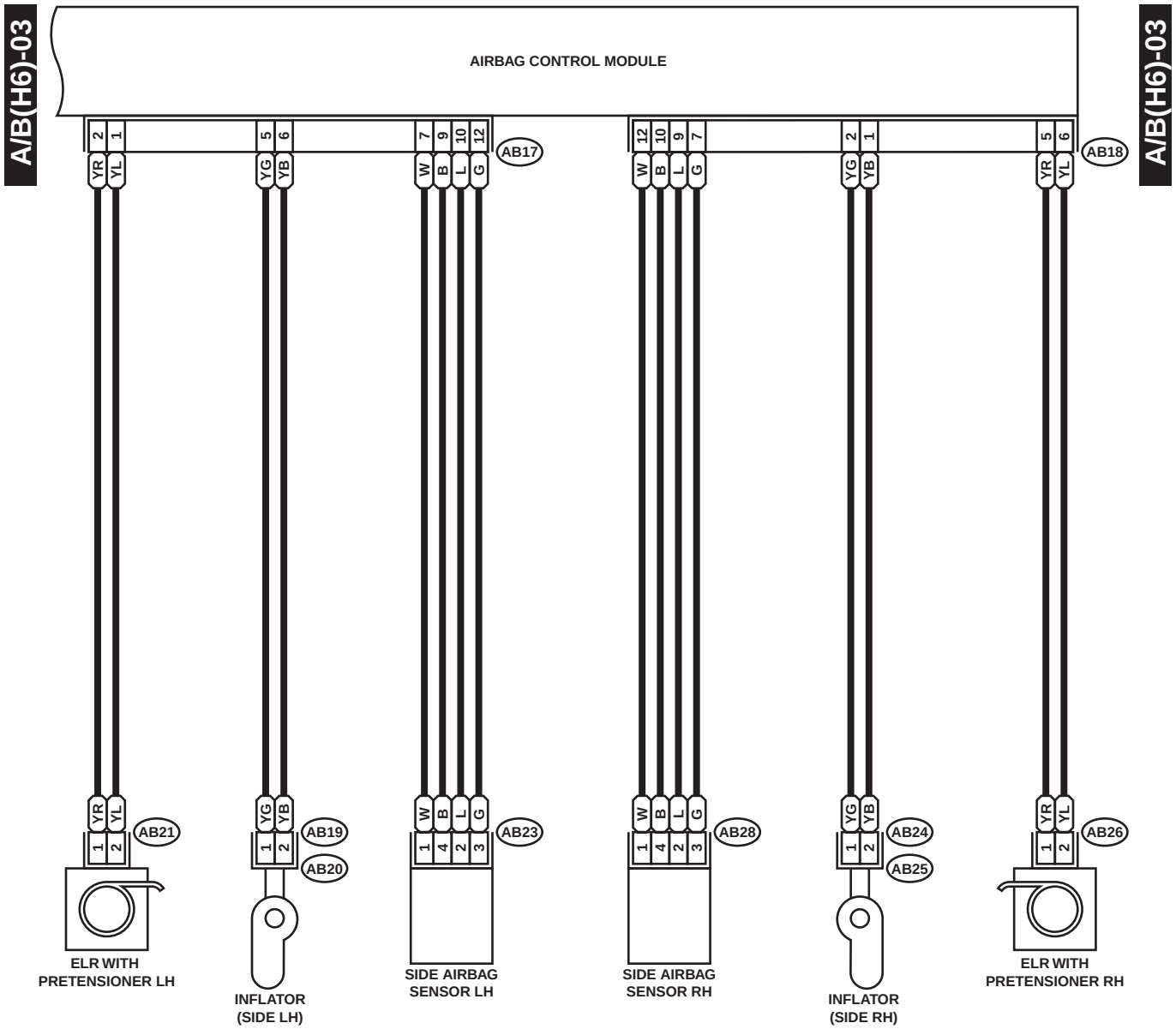


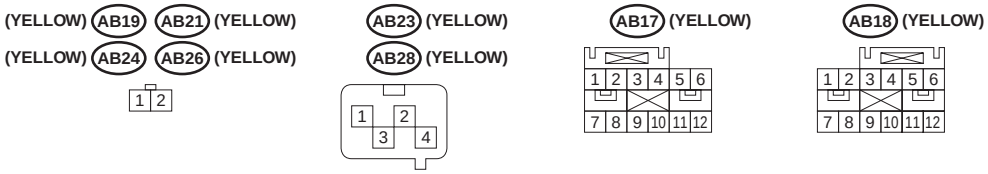
WI-00773


A/B(H6)-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
A/B(H6)-02
AB13
AB12
AB11
AB16
AB15
AB14
AB6 AIRBAG CONTROL MODULE
AB8
AB3
STEERING
ROLL CONNECTOR
AB7
AB9
AB10
INFLATOR (DRIVER SIDE)
INFLATOR (PASSENGER SIDE)


(YELLOW) AB8 AB9 (YELLOW)
(BLUE) AB12 AB15 (BLUE)
AB13 (YELLOW)
AB16 (YELLOW)
AB6 (YELLOW)
AB7

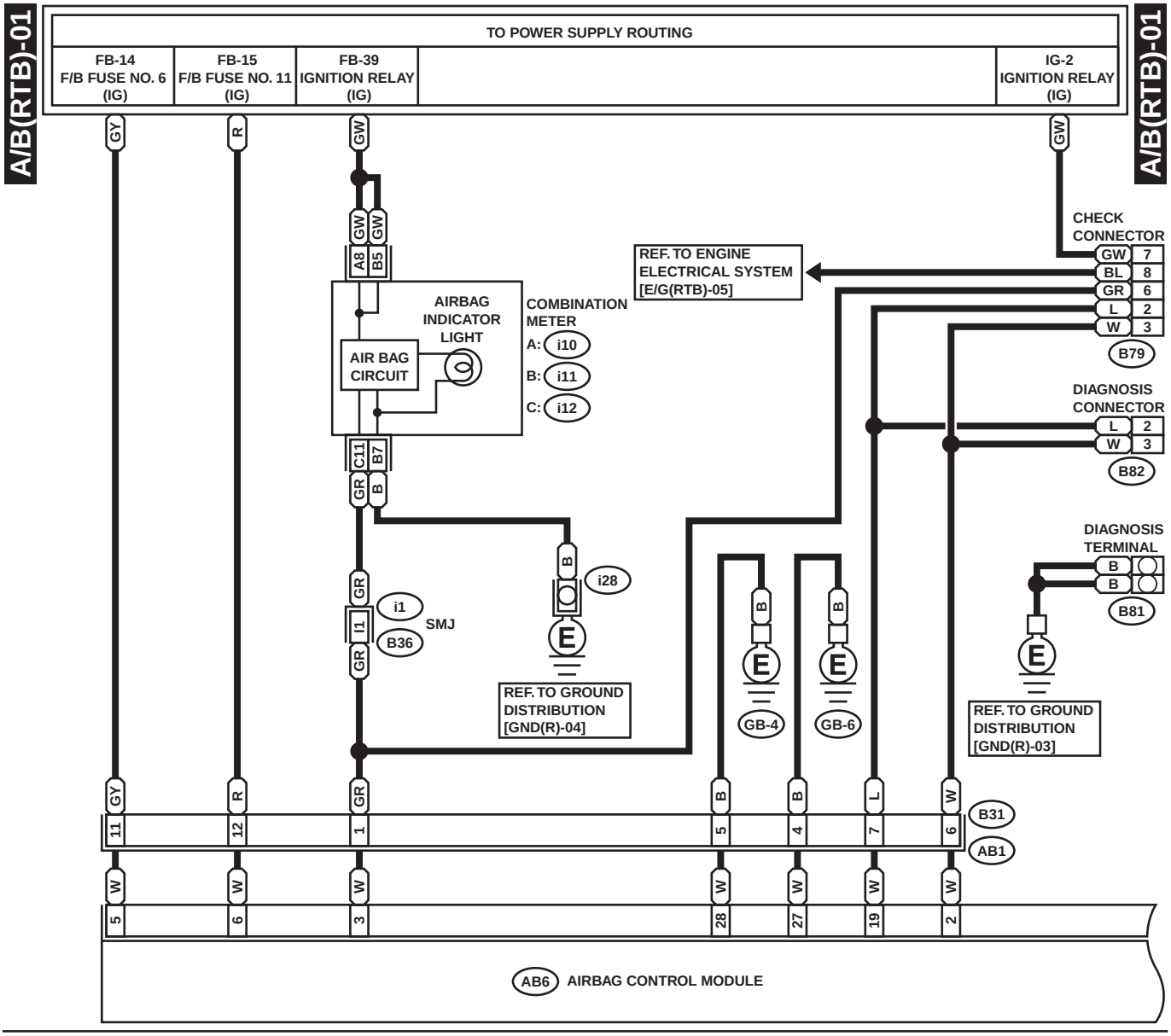
WI-00774

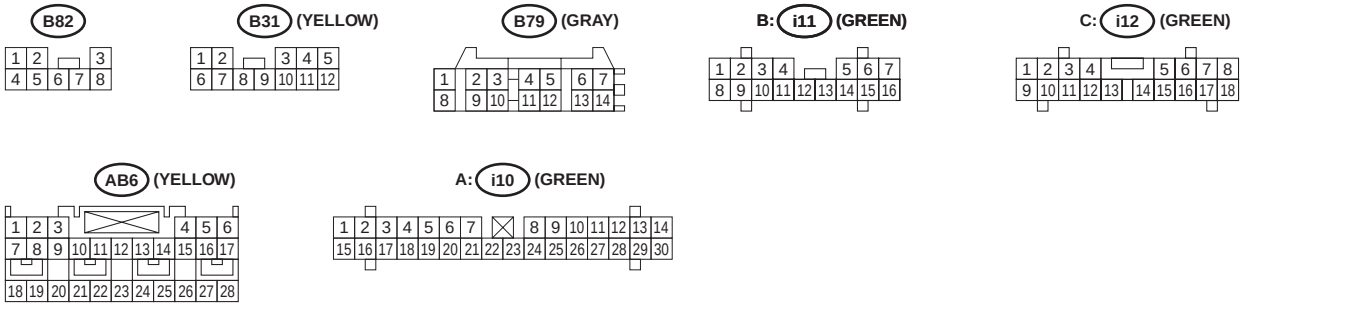

A/B(H6)-03
AIRBAG CONTROL MODULE
A/B(H6)-03
AB17
AB18
YR
YL
YG
YB
W
B
L
G
AB21
AB19
AB20
AB23
AB28
AB24
AB25
AB26
ELR WITH PRETENSIONER LH
INFLATOR (SIDE LH)
SIDE AIRBAG SENSOR LH
SIDE AIRBAG SENSOR RH
INFLATOR (SIDE RH)
ELR WITH PRETENSIONER RH


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

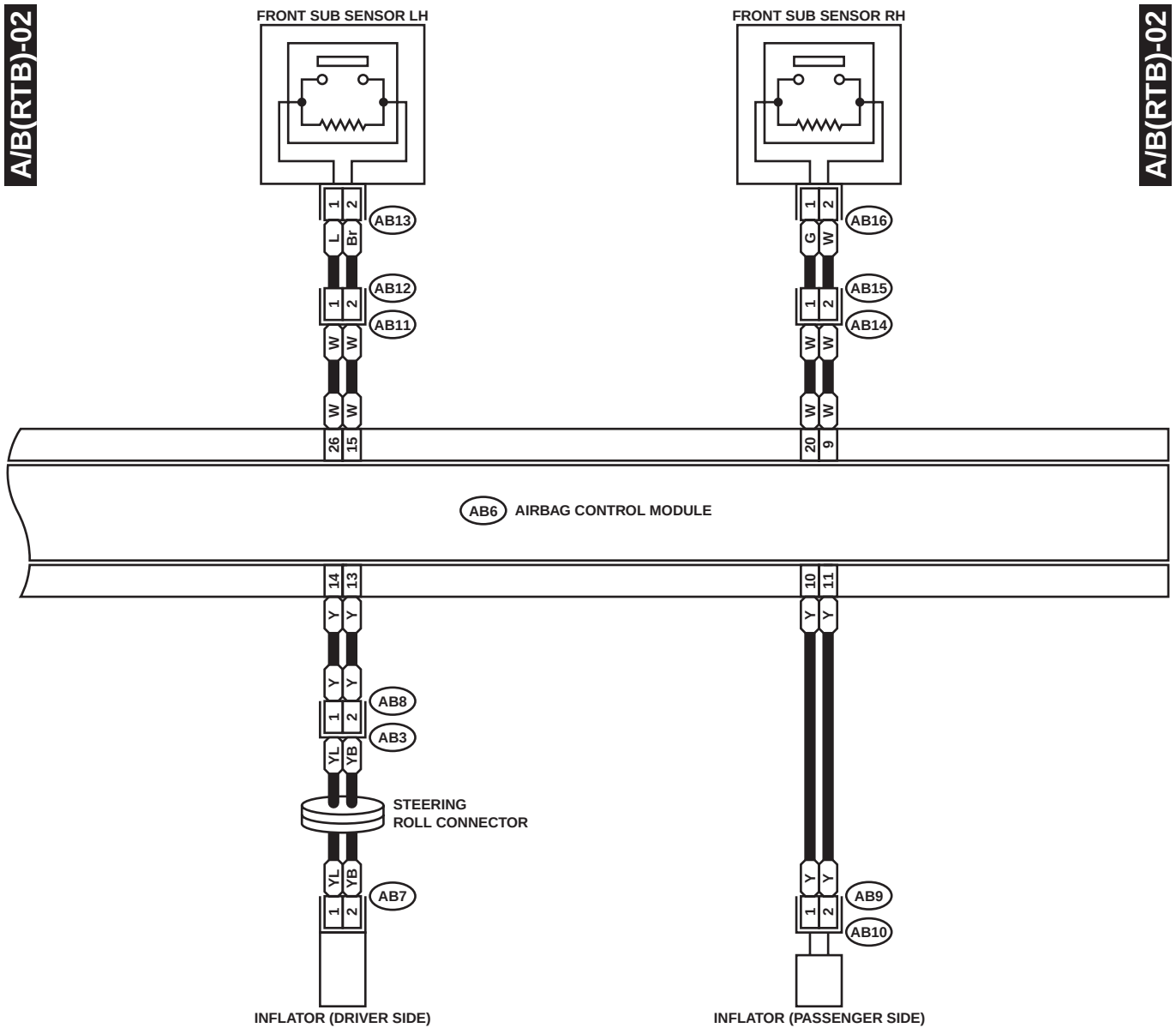
WI-00775

3. TURBO ENGINE MODEL

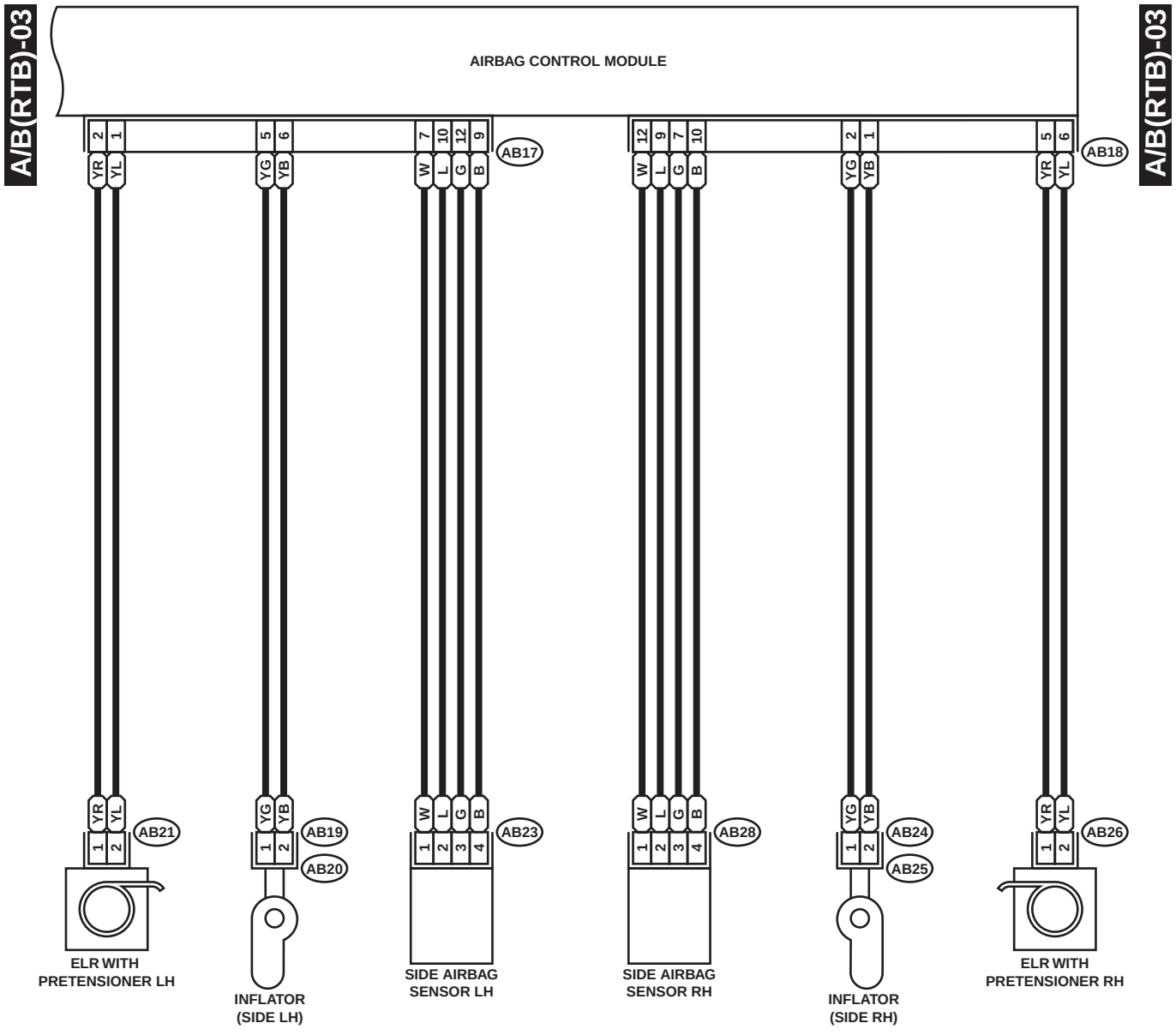


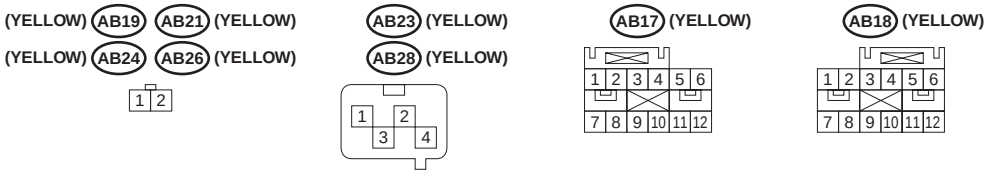


WI-00776


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

WI-00777


A/B(RTB)-03
AIRBAG CONTROL MODULE
A/B(RTB)-03
AB17
AB18
AB21
AB19
AB20
AB23
AB28
AB24
AB25
AB26
ELR WITH PRETENSIONER LH
INFLATOR (SIDE LH)
SIDE AIRBAG SENSOR LH
SIDE AIRBAG SENSOR RH
INFLATOR (SIDE RH)
ELR WITH PRETENSIONER RH


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

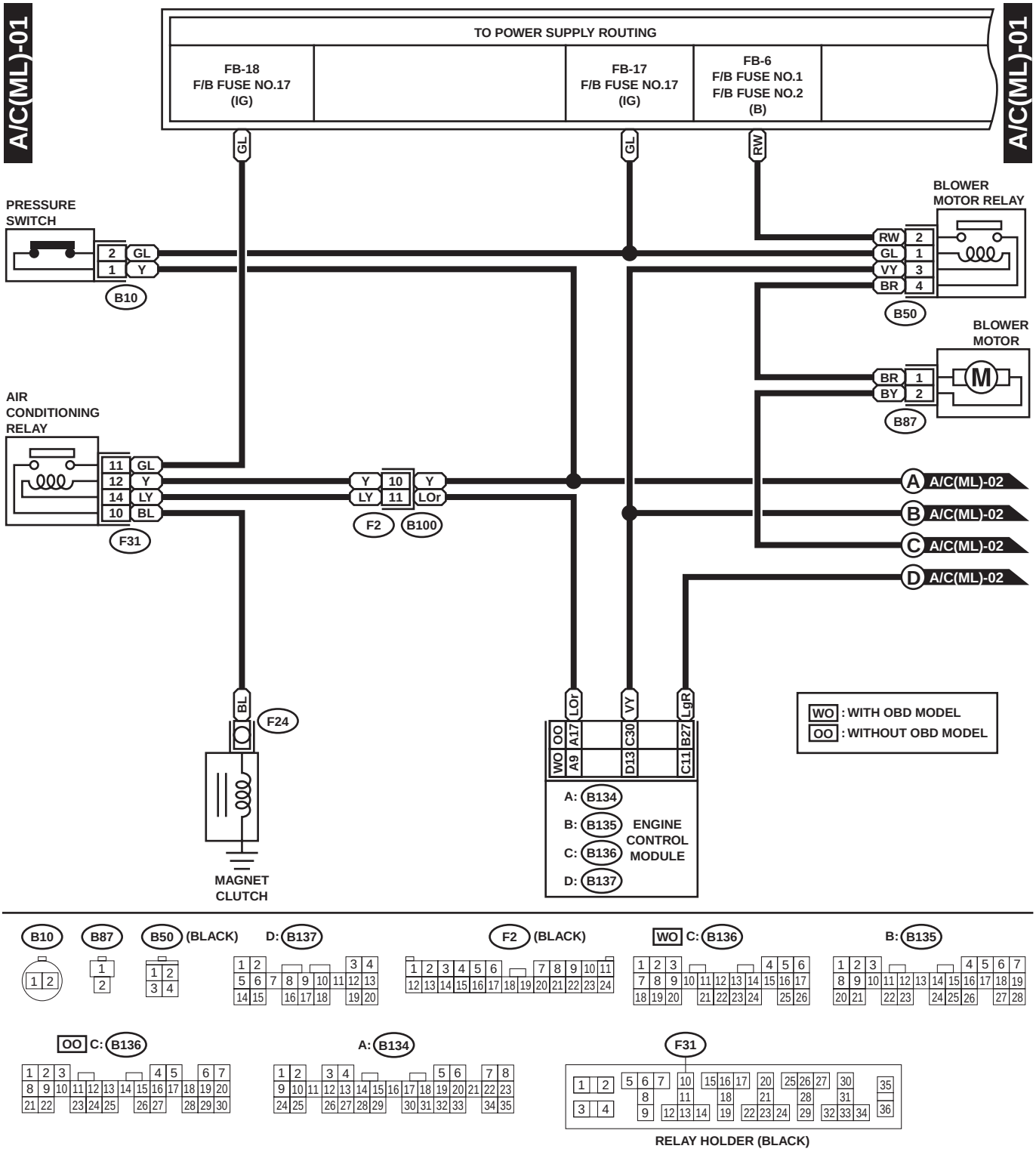
WI-00778

MEMO:

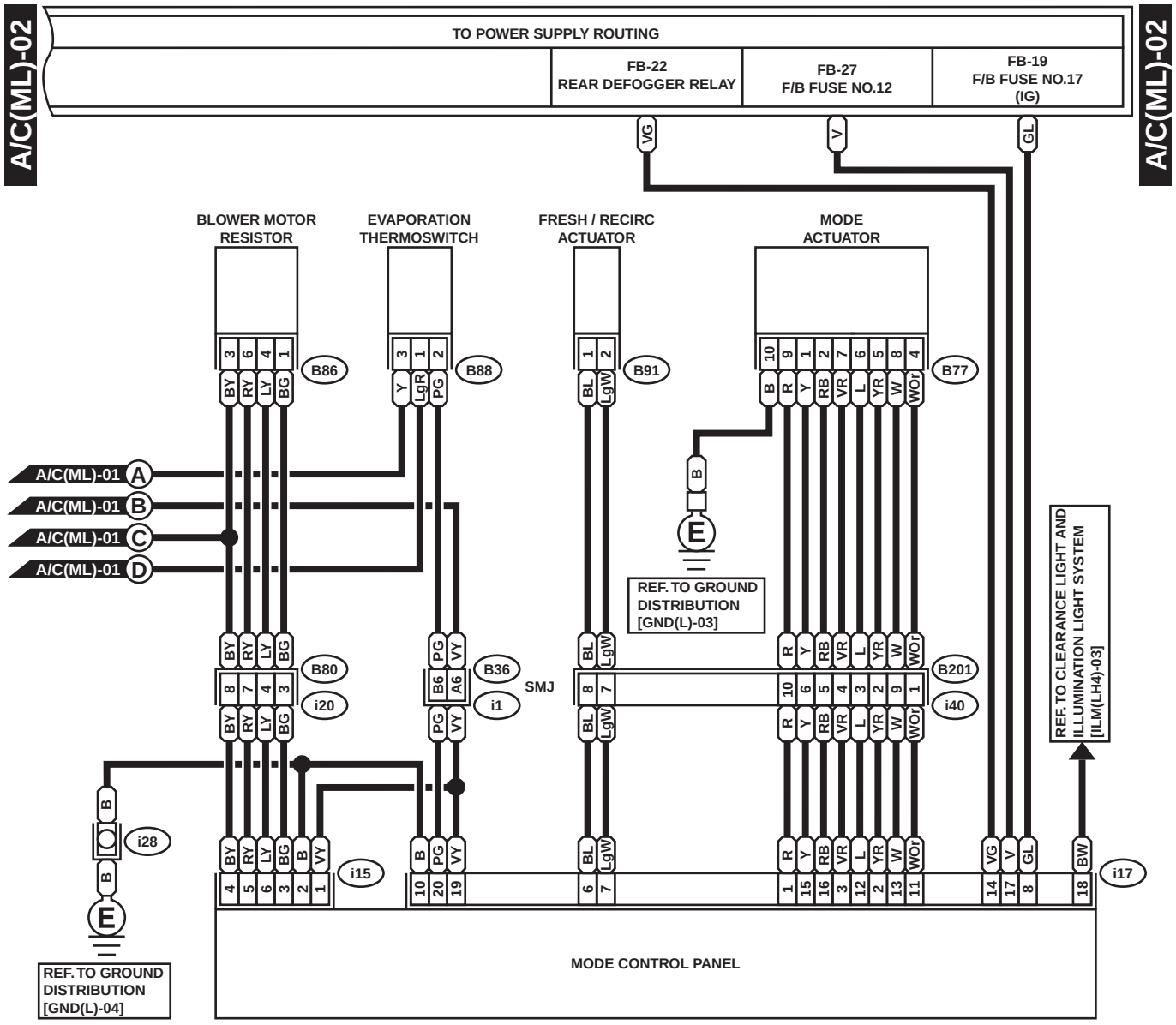
7. Air Conditioning System

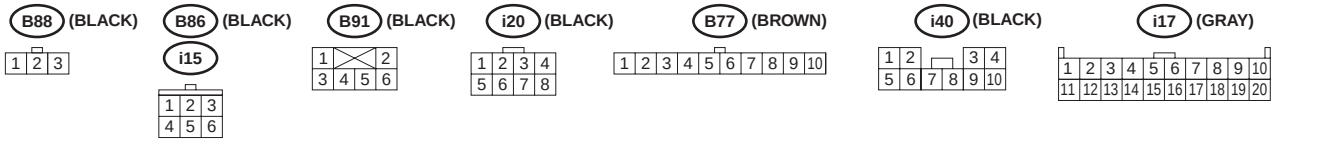
A: SCHEMATIC

1. MANUAL A/C LHD MODEL



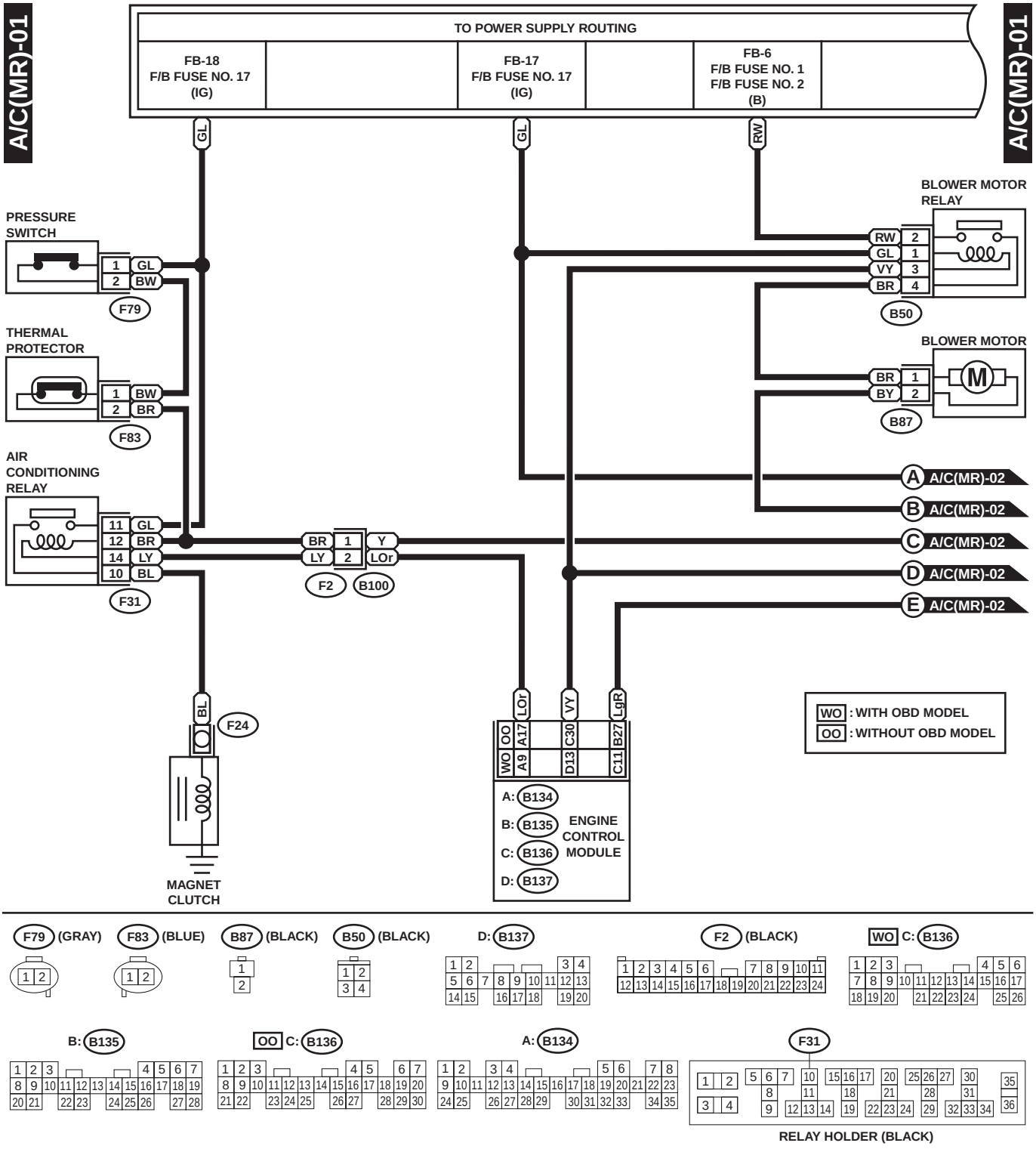
WI-00779


A/C(ML)-02
TO POWER SUPPLY ROUTING
FB-22
REAR DEFOGGER RELAY
FB-27
F/B FUSE NO.12
FB-19
F/B FUSE NO.17
(IG)
VG
V
GL
BLOWER MOTOR
RESISTOR
EVAPORATION
THERMOSWITCH
FRESH / RECIRC
ACTUATOR
MODE
ACTUATOR
B86
B88
B91
B77
A/C(ML)-01 A
A/C(ML)-01 B
A/C(ML)-01 C
A/C(ML)-01 D
REF. TO GROUND
DISTRIBUTION
[GND(L)-03]
B80
i20
B36
i1
SMJ
B201
i40
REF. TO CLEARANCE LIGHT AND
ILLUMINATION LIGHT SYSTEM
[ILM(LH4)-03]
i28
i15
i17
REF. TO GROUND
DISTRIBUTION
[GND(L)-04]
MODE CONTROL PANEL

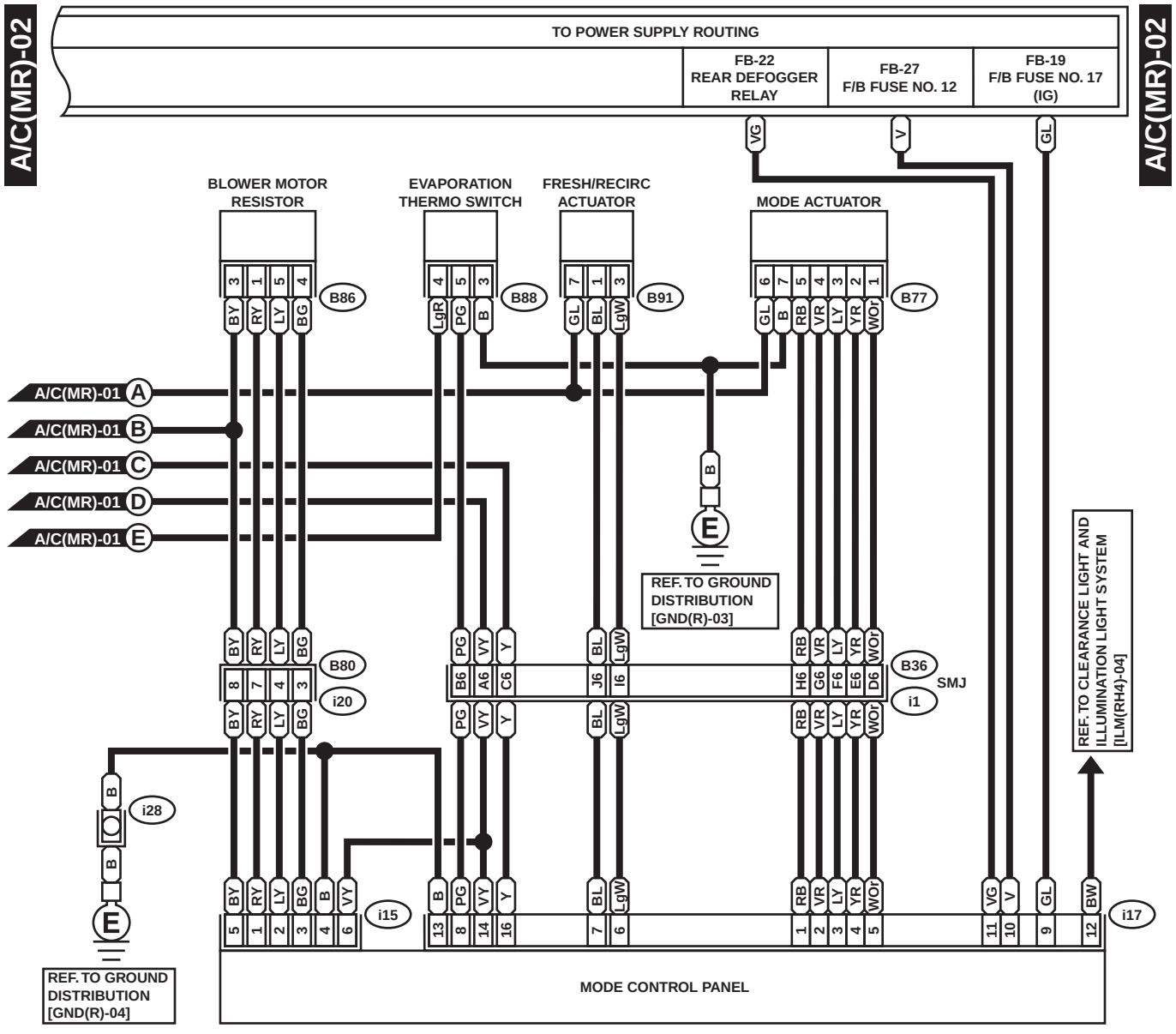

B88 (BLACK)
B86 (BLACK)
i15
B91 (BLACK)
i20 (BLACK)
B77 (BROWN)
i40 (BLACK)
i17 (GRAY)

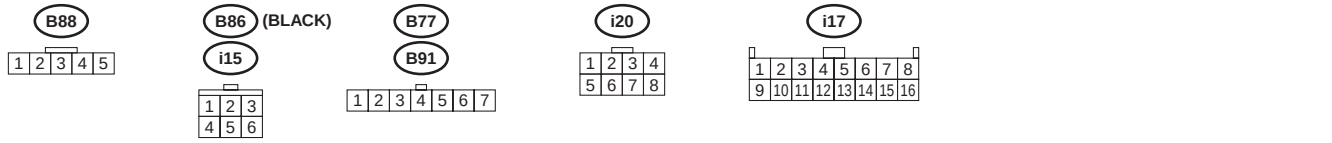
WI-00780

2. MANUAL A/C RHD MODEL



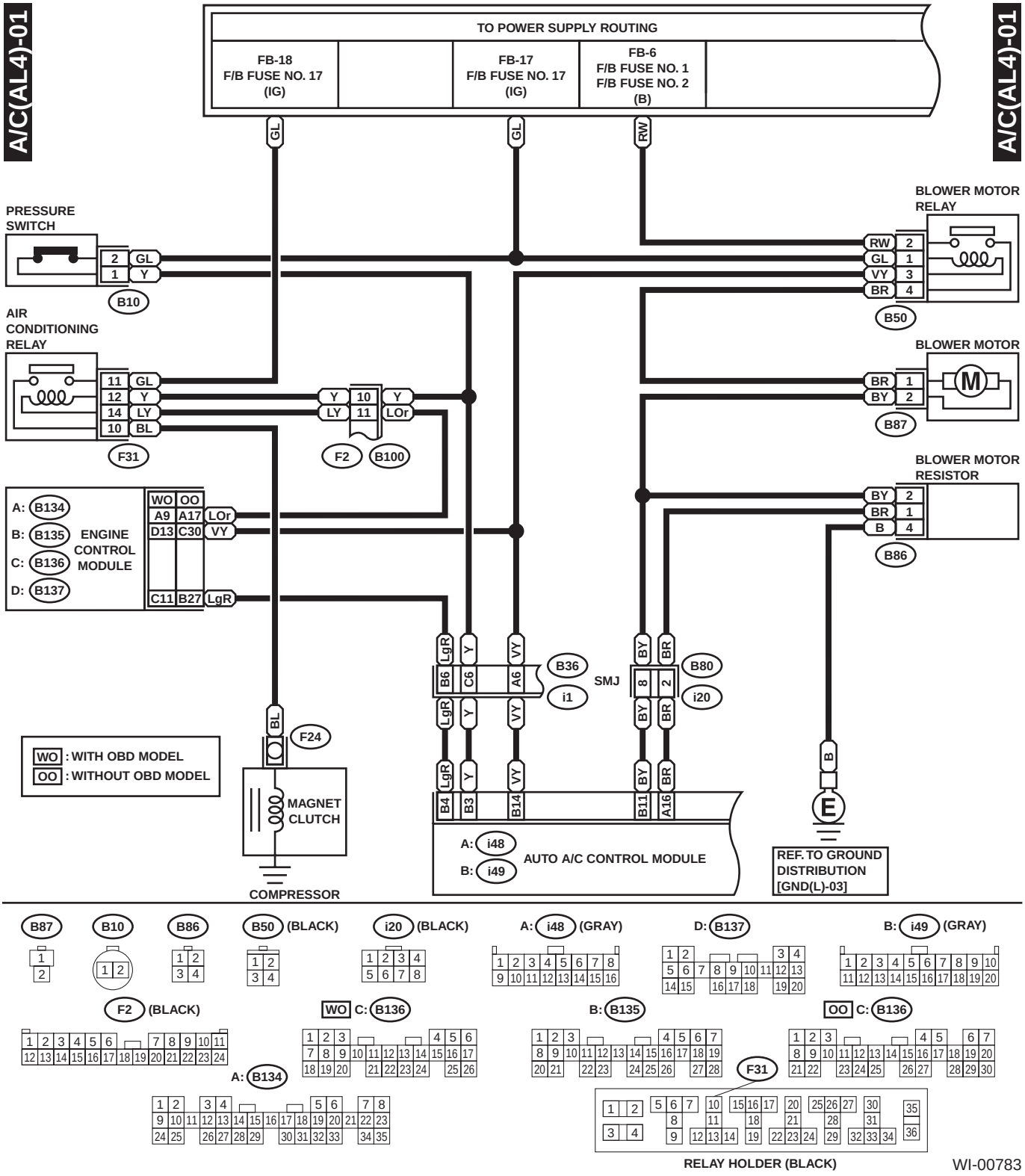
WI-00781

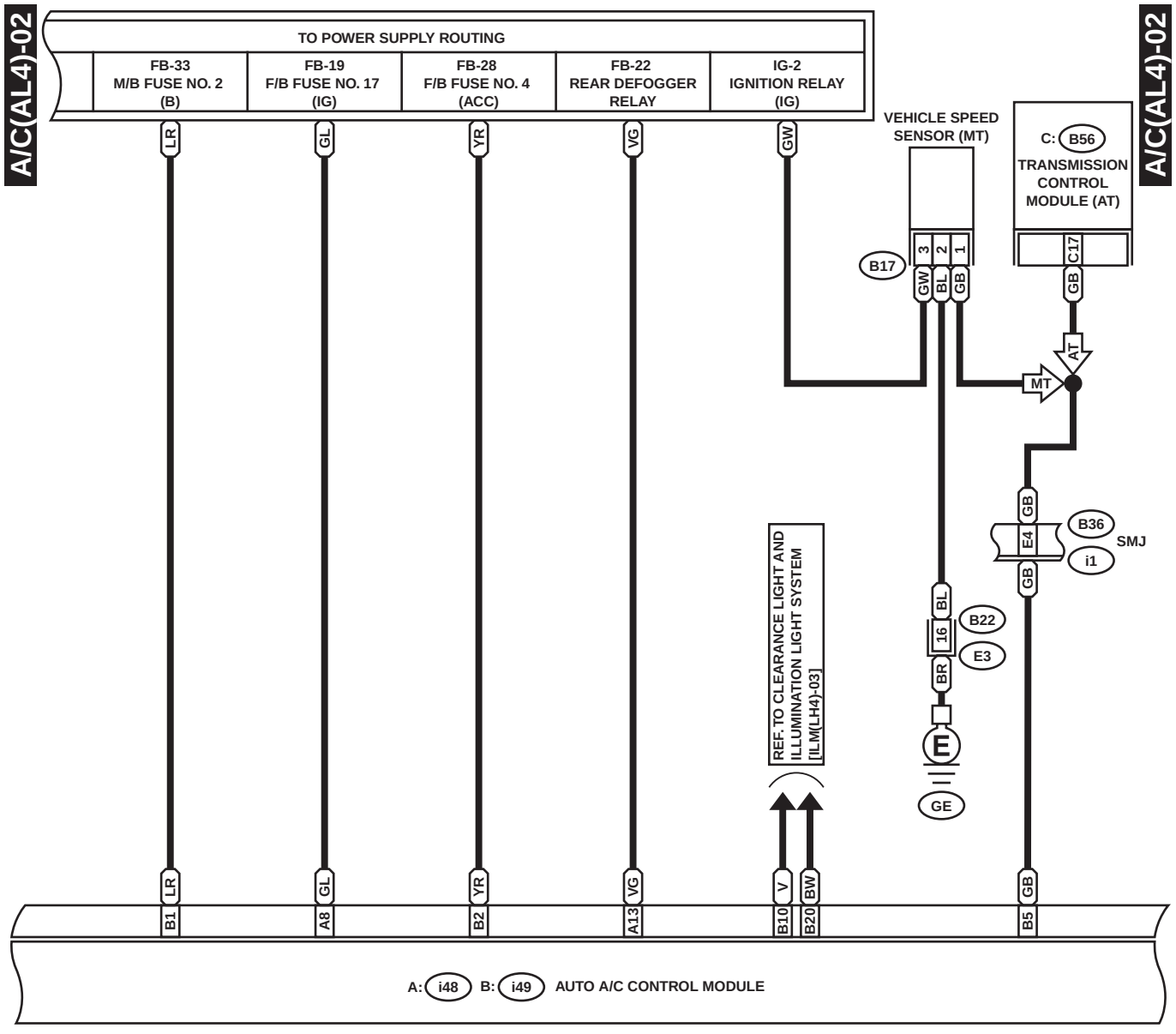

A/C(MR)-02
A/C(MR)-02
TO POWER SUPPLY ROUTING
FB-22
REAR DEFOGGER
RELAY
FB-27
F/B FUSE NO. 12
FB-19
F/B FUSE NO. 17
(IG)
VG
V
GL
BLOWER MOTOR
RESISTOR
EVAPORATION
THERMO SWITCH
FRESH/RECIRC
ACTUATOR
MODE ACTUATOR
B86
B88
B91
B77
A/C(MR)-01 A
A/C(MR)-01 B
A/C(MR)-01 C
A/C(MR)-01 D
A/C(MR)-01 E
REF. TO GROUND
DISTRIBUTION
[GND(R)-03]
B80
i20
B36
SMJ
i1
i28
i15
i17
REF. TO CLEARANCE LIGHT AND
ILLUMINATION LIGHT SYSTEM
[ILM(RH4)-04]
REF. TO GROUND
DISTRIBUTION
[GND(R)-04]
MODE CONTROL PANEL

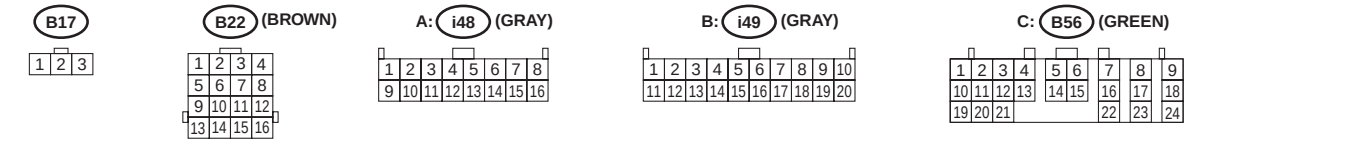

B88
B86 (BLACK)
i15
B77
B91
i20
i17

WI-00782

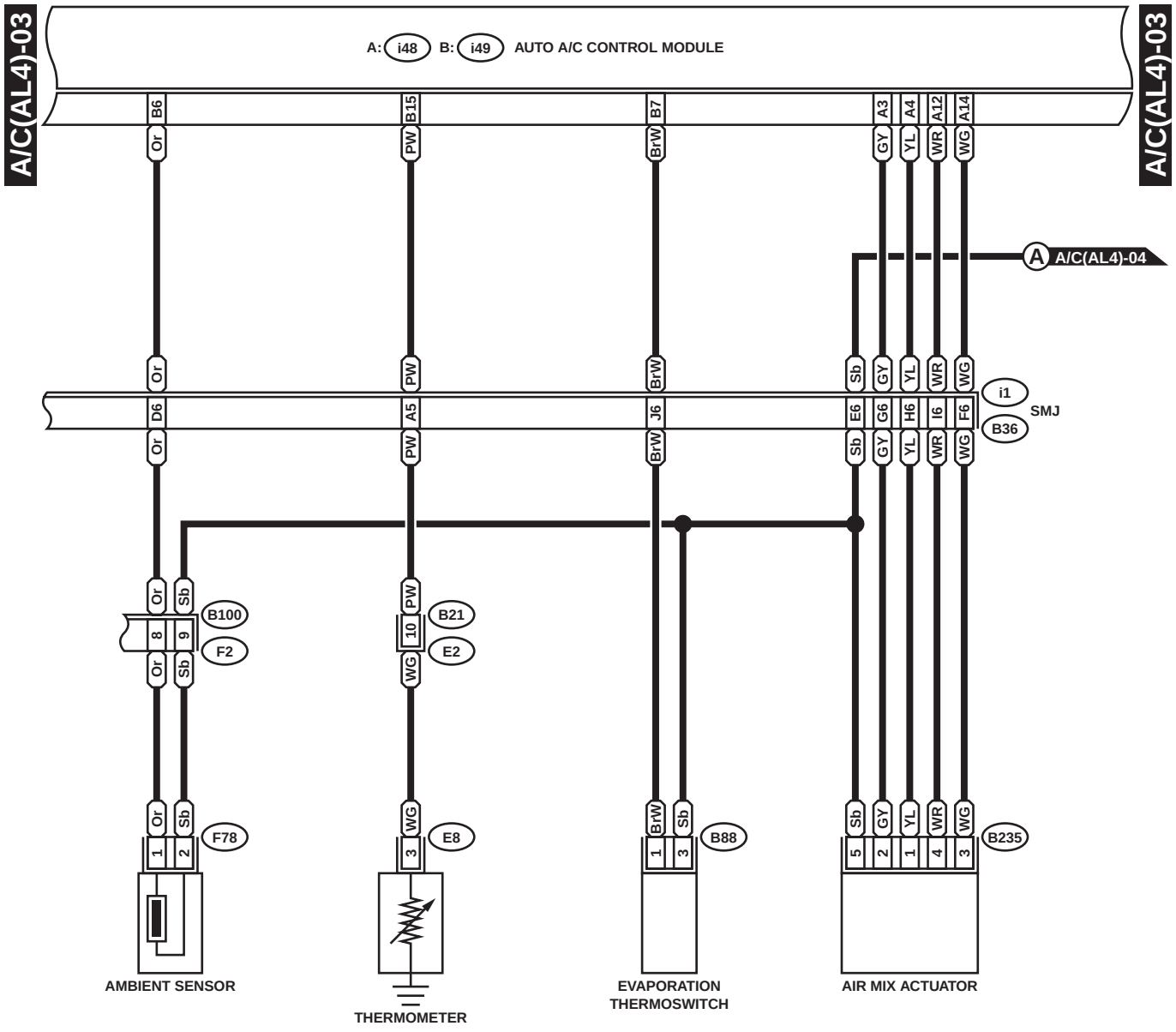
3. AUTO A/C LHD 4-CYLINDER ENGINE MODEL



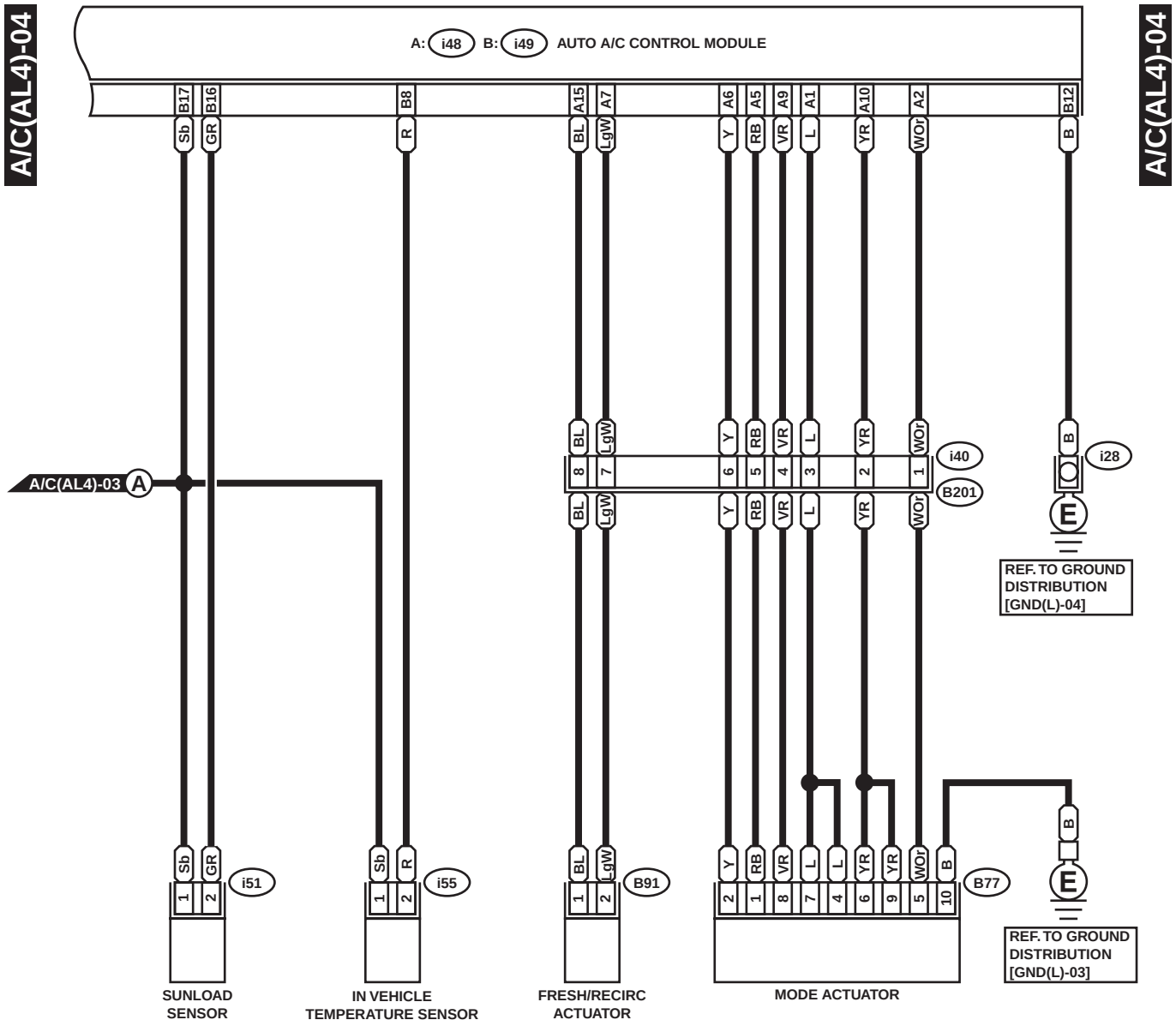

A/C(AL4)-02
TO POWER SUPPLY ROUTING
FB-33
M/B FUSE NO. 2
(B)
FB-19
F/B FUSE NO. 17
(IG)
FB-28
F/B FUSE NO. 4
(ACC)
FB-22
REAR DEFOGGER
RELAY
IG-2
IGNITION RELAY
(IG)
A/C(AL4)-02
VEHICLE SPEED
SENSOR (MT)
C: B56
TRANSMISSION
CONTROL
MODULE (AT)
B17
C17
AT
MT
B36
SMJ
i1
B22
E3
GE
REF. TO CLEARANCE LIGHT AND
ILLUMINATION LIGHT SYSTEM
[ILM(LH4)-03]
A: i48 B: i49 AUTO A/C CONTROL MODULE


B17
B22 (BROWN)
A: i48 (GRAY)
B: i49 (GRAY)
C: B56 (GREEN)

WI-00784

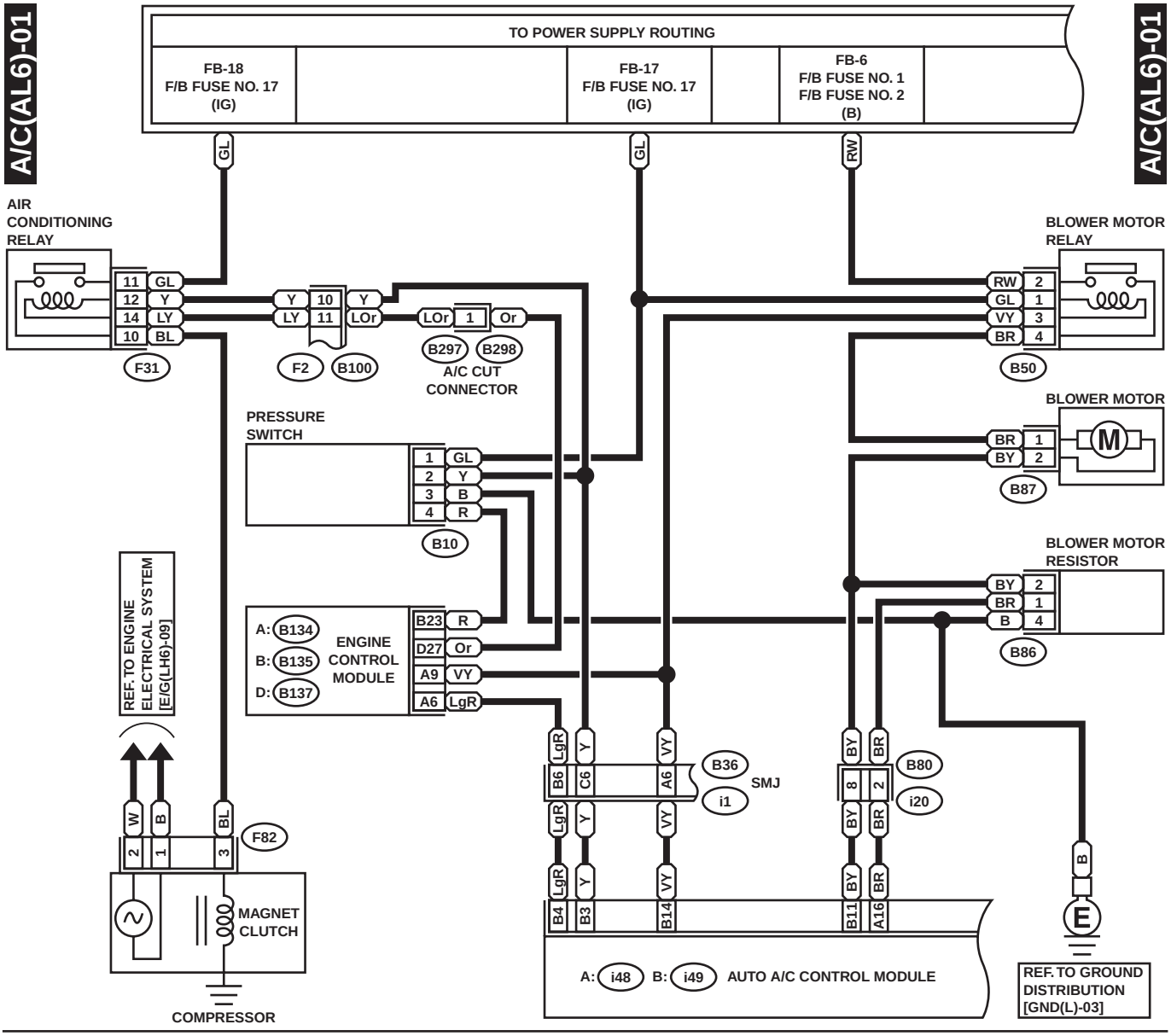

A/C(AL4)-03
A/C(AL4)-03
A: i48 B: i49 AUTO A/C CONTROL MODULE
B6
B15
B7
A3
A4
A12
A14
Or
PW
BrW
GY
YL
WR
WG
A A/C(AL4)-04
Sb
i1
SMJ
B36
D6
A5
J6
E6
G6
H6
I6
F6
B100
F2
B21
E2
E8
B88
B235
F78
AMBIENT SENSOR
THERMOMETER
EVAPORATION THERMOSWITCH
AIR MIX ACTUATOR
F78 (BLACK)
B88
E8 (LIGHT GRAY)
B235 (BLACK)
A: i48 (GRAY)
B21 (LIGHT GRAY)
B: i49 (GRAY)
F2 (BLACK)

WI-00785

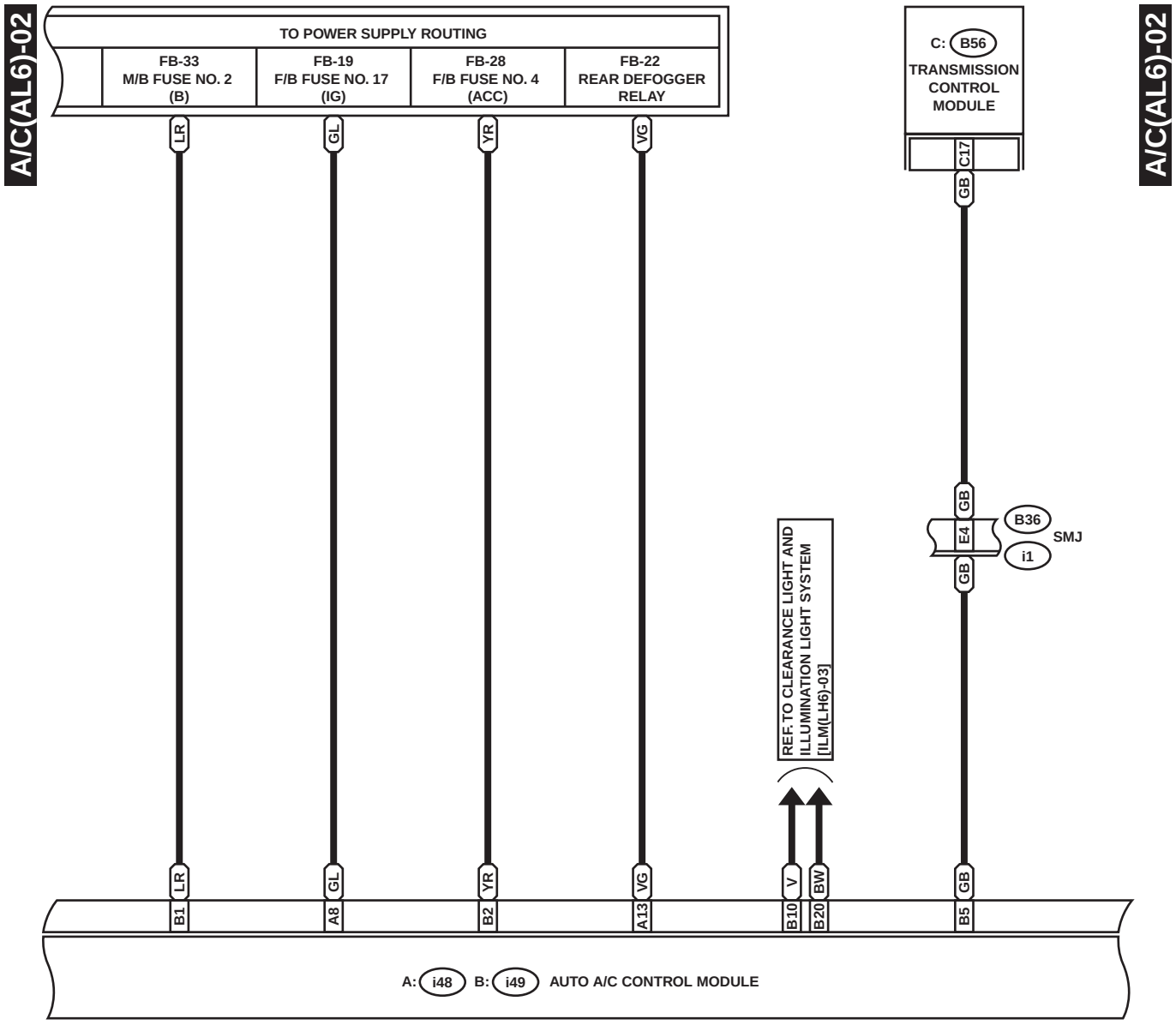

A/C(AL4)-04
A/C(AL4)-04
A: i48 B: i49 AUTO A/C CONTROL MODULE
B17 B16 B8 A15 A7 A6 A5 A9 A1 A10 A2 B12
Sb GR R BL LgW Y RB VR L YR WOr B
A/C(AL4)-03 A
i40
B201
i28
REF. TO GROUND DISTRIBUTION [GND(L)-04]
i51
i55
B91
B77
REF. TO GROUND DISTRIBUTION [GND(L)-03]
SUNLOAD SENSOR
IN VEHICLE TEMPERATURE SENSOR
FRESH/RECIRC ACTUATOR
MODE ACTUATOR
i51 (BLACK)
i55
B91 (BLACK)
B77 (BROWN)
i40 (BLACK)
A: i48 (GRAY)
B: i49 (GRAY)

WI-00786

4. AUTO A/C LHD 6-CYLINDER ENGINE MODEL



WI-00787



A: i48 (GRAY)

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

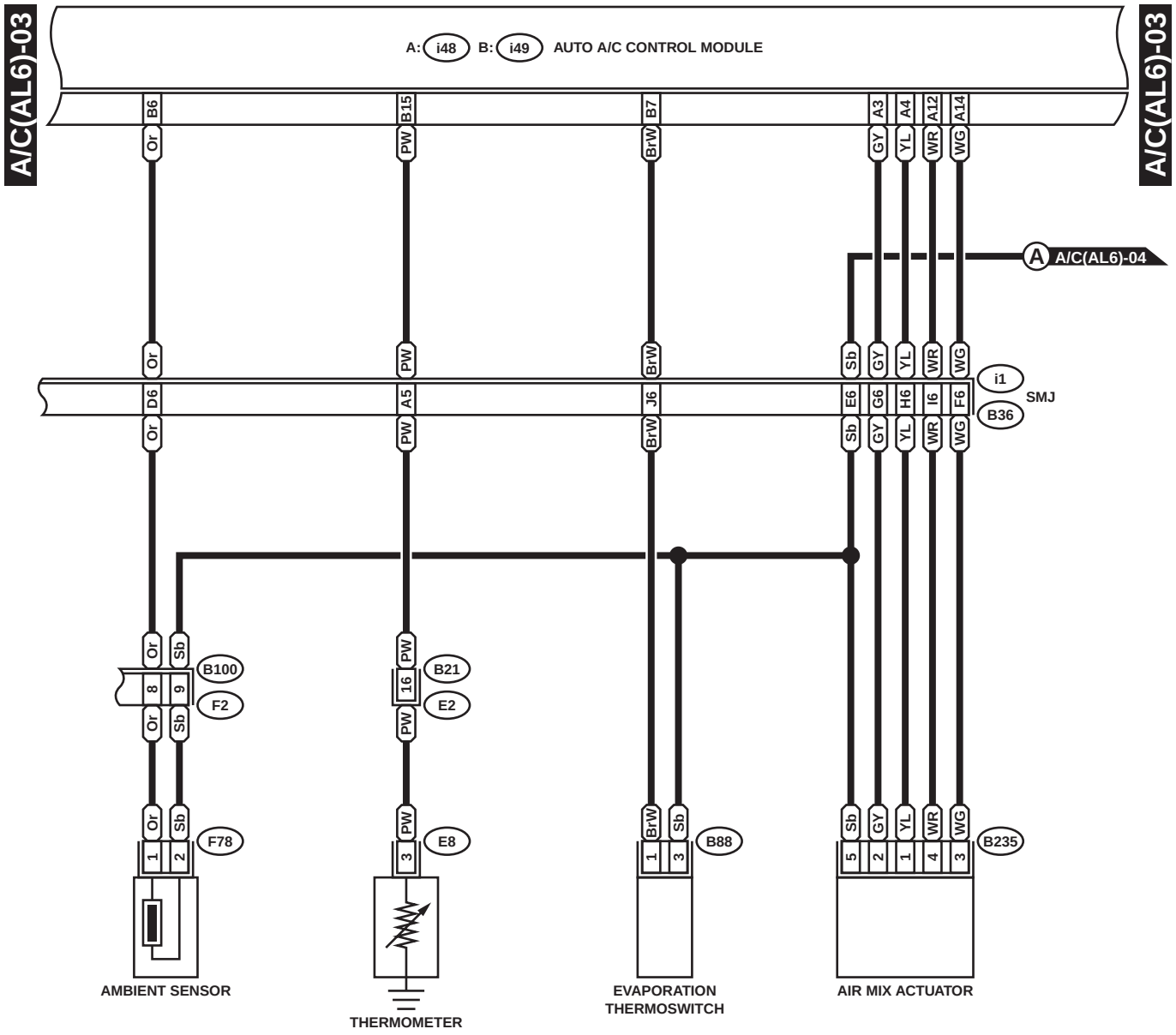
B: i49 (GRAY)

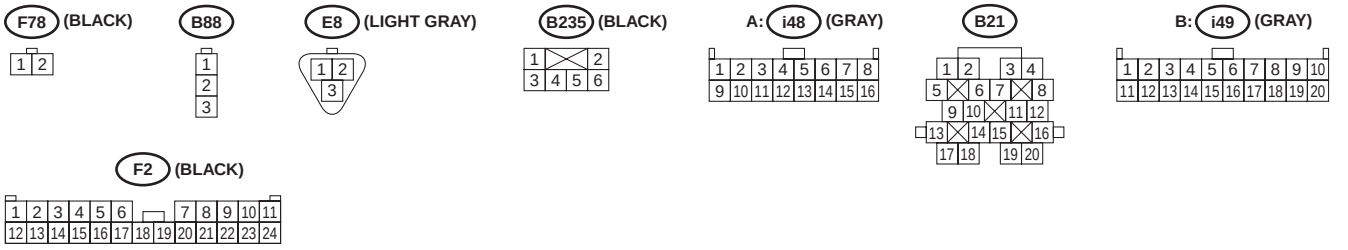
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

C: B56 (GREEN)

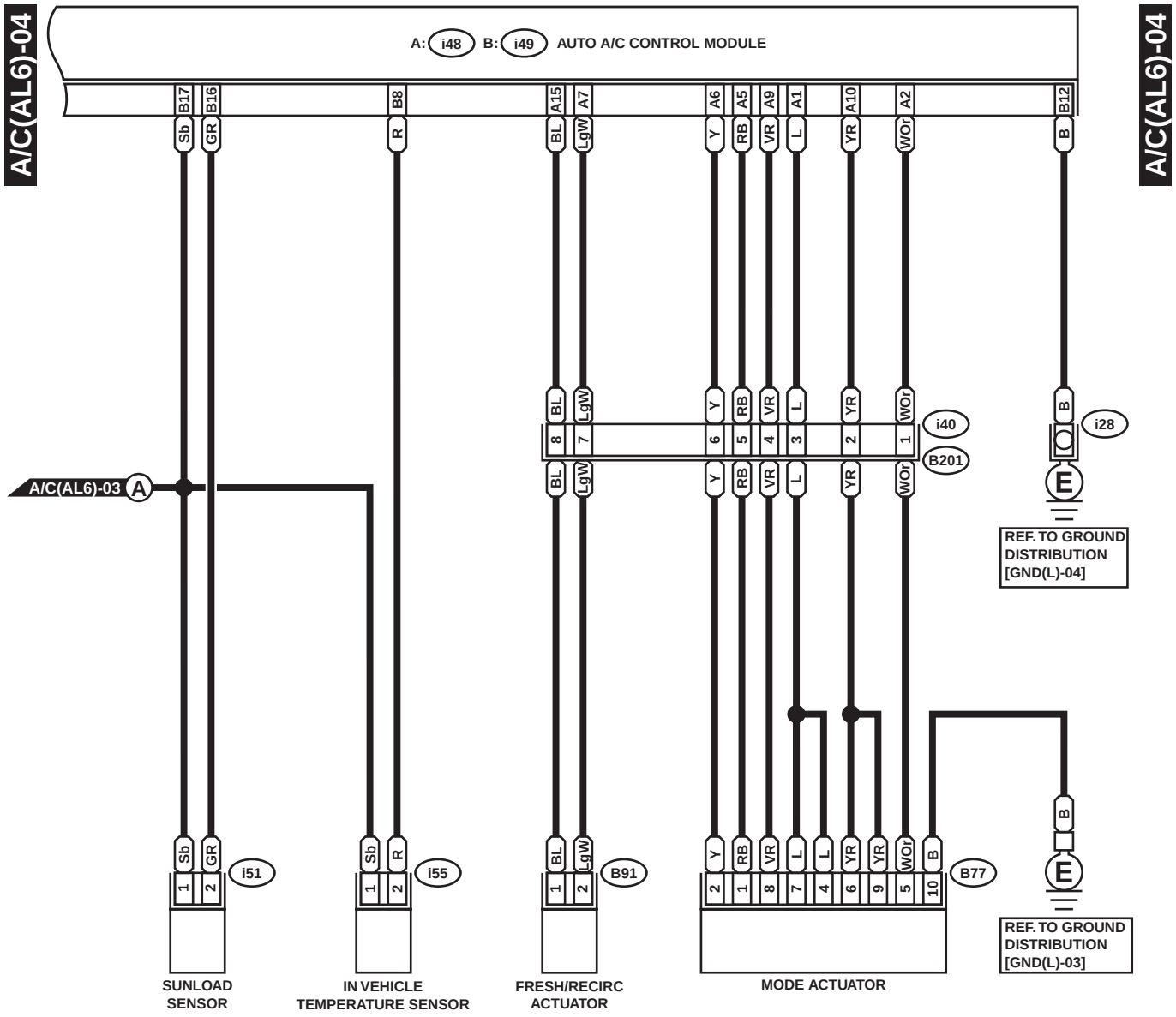
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24

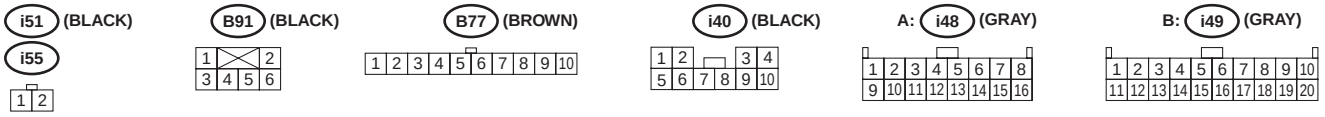
WI-00788


A/C(AL6)-03
A/C(AL6)-03
A: i48 B: i49 AUTO A/C CONTROL MODULE
B6 B15 B7 A3 A4 A12 A14
Or PW BrW GY YL WR WG
A A/C(AL6)-04
Or PW BrW Sb GY YL WR WG
i1
SMJ
B36
D6 A5 J6 E6 G6 H6 I6 F6
Or PW BrW Sb GY YL WR WG
B100
F2
B21
E2
F78
E8
B88
B235
AMBIENT SENSOR
THERMOMETER
EVAPORATION THERMOSWITCH
AIR MIX ACTUATOR


F78 (BLACK)
B88
E8 (LIGHT GRAY)
B235 (BLACK)
A: i48 (GRAY)
B21
B: i49 (GRAY)
F2 (BLACK)

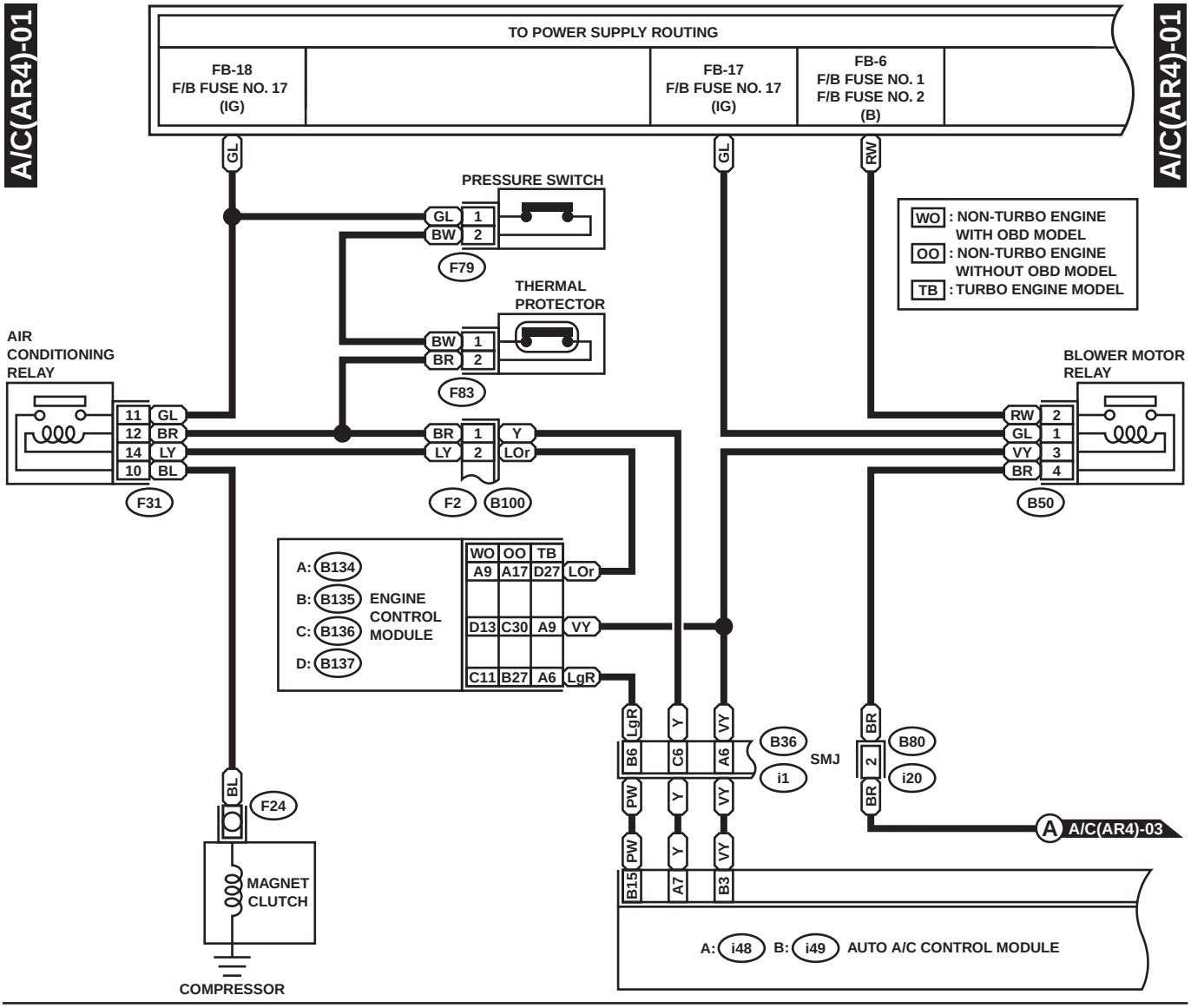
WI-00789


A/C(AL6)-04
A/C(AL6)-04
A: i48 B: i49 AUTO A/C CONTROL MODULE
B17 B16 B8 A15 A7 A6 A5 A9 A1 A10 A2 B12
Sb GR R BL LgW Y RB VR L YR WOr B
i40
B201
i28
A/C(AL6)-03 A
REF. TO GROUND DISTRIBUTION [GND(L)-04]
i51
i55
B91
B77
REF. TO GROUND DISTRIBUTION [GND(L)-03]
SUNLOAD SENSOR
IN VEHICLE TEMPERATURE SENSOR
FRESH/RECIRC ACTUATOR
MODE ACTUATOR

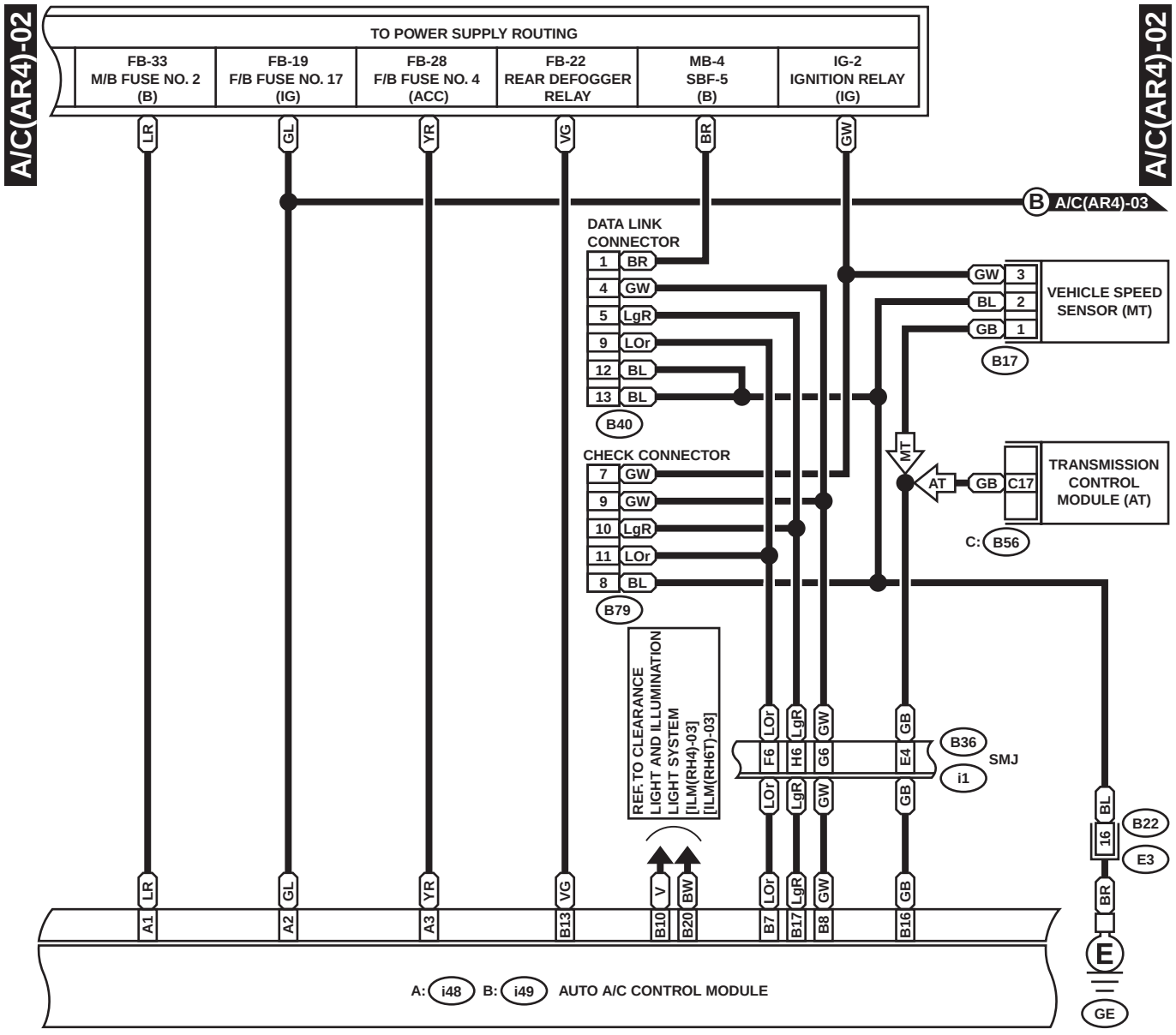

i51 (BLACK)
i55
B91 (BLACK)
B77 (BROWN)
i40 (BLACK)
A: i48 (GRAY)
B: i49 (GRAY)

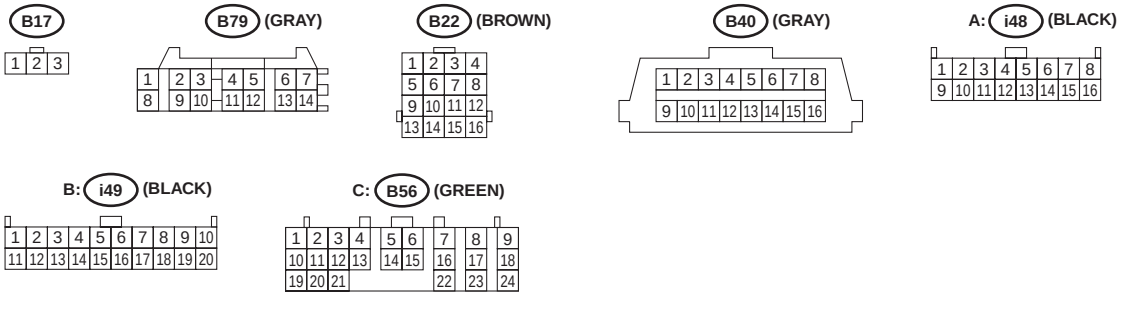
WI-00790

5. AUTO A/C RHD 4-CYLINDER ENGINE MODEL

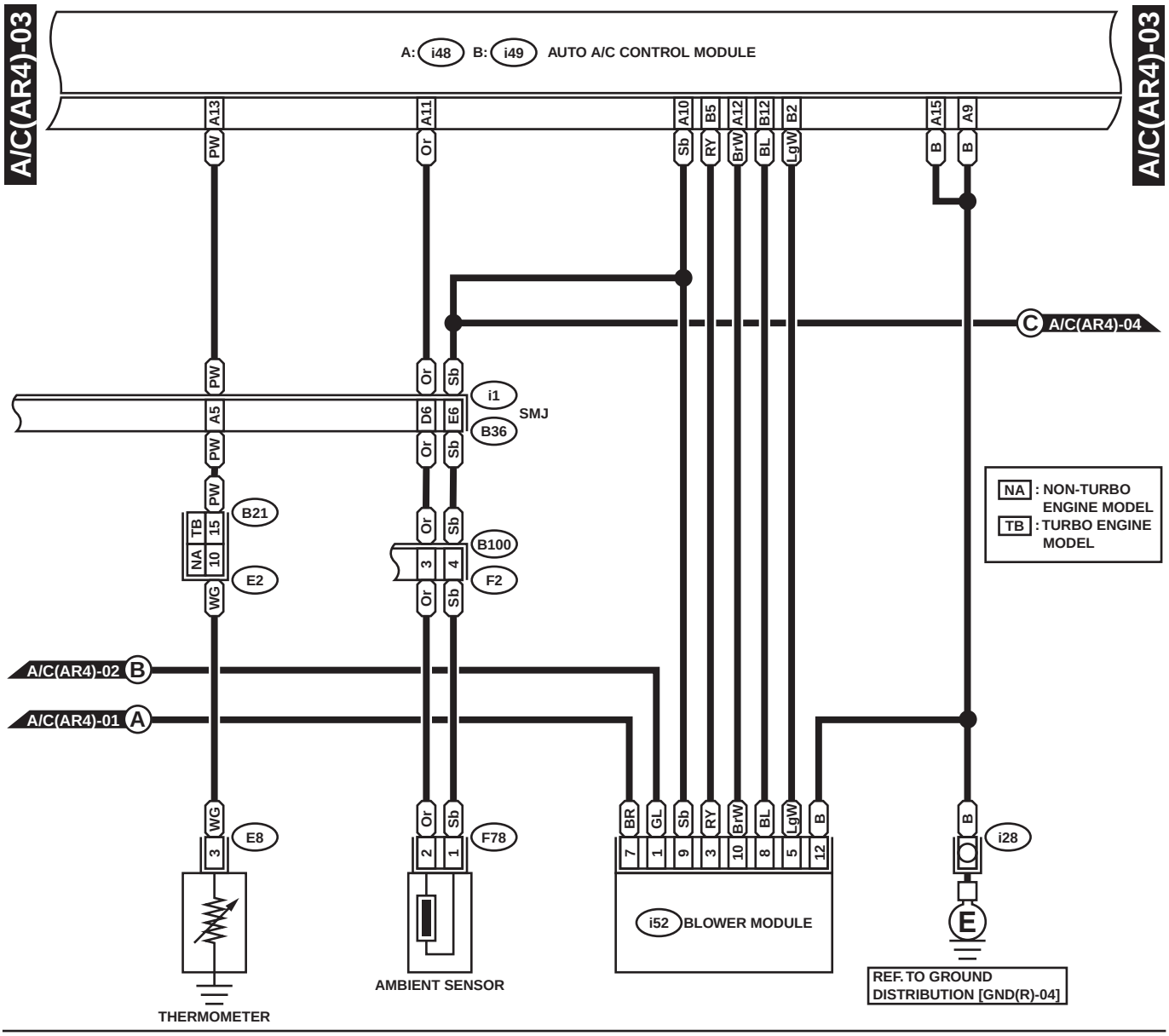


WI-00791


A/C(AR4)-02
TO POWER SUPPLY ROUTING
FB-33 M/B FUSE NO. 2 (B)
FB-19 F/B FUSE NO. 17 (IG)
FB-28 F/B FUSE NO. 4 (ACC)
FB-22 REAR DEFOGGER RELAY
MB-4 SBF-5 (B)
IG-2 IGNITION RELAY (IG)
LR
GL
YR
VG
BR
GW
B A/C(AR4)-03
DATA LINK CONNECTOR
1 BR
4 GW
5 LgR
9 LOr
12 BL
13 BL
B40
CHECK CONNECTOR
7 GW
9 GW
10 LgR
11 LOr
8 BL
B79
GW 3
BL 2
GB 1
VEHICLE SPEED SENSOR (MT)
B17
MT
AT
GB C17
TRANSMISSION CONTROL MODULE (AT)
C: B56
REF. TO CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM [ILM(RH4)-03] [ILM(RH6T)-03]
F6 H6 G6 E4
B36
SMJ
i1
BL 16
B22
E3
BR
E
GE
A1 A2 A3 B13 B10 B20 B7 B17 B8 B16
V BW
A: i48 B: i49 AUTO A/C CONTROL MODULE


B17
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
A: i48 (BLACK)
B: i49 (BLACK)
C: B56 (GREEN)

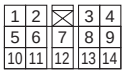
WI-00792



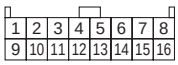
F78 (BLACK)

E8 (LIGHT GRAY)

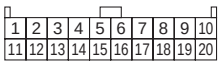
i52 (BLACK)



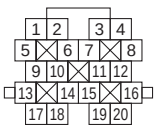
A: i48 (BLACK)



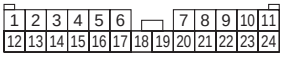
B: i49 (BLACK)



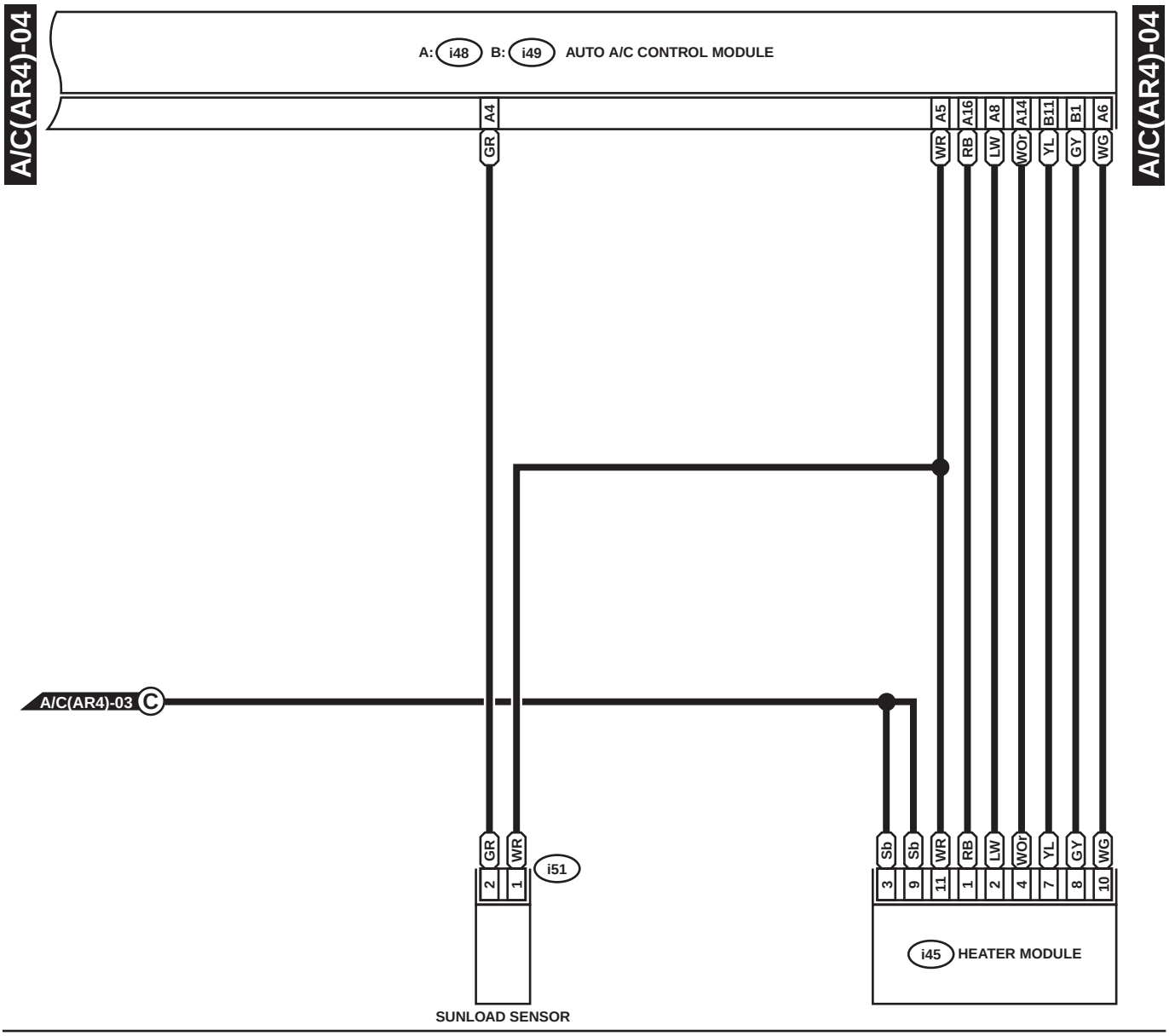
B21 NA : (LIGHT GRAY) TB : (BLACK)



F2 (BLACK)

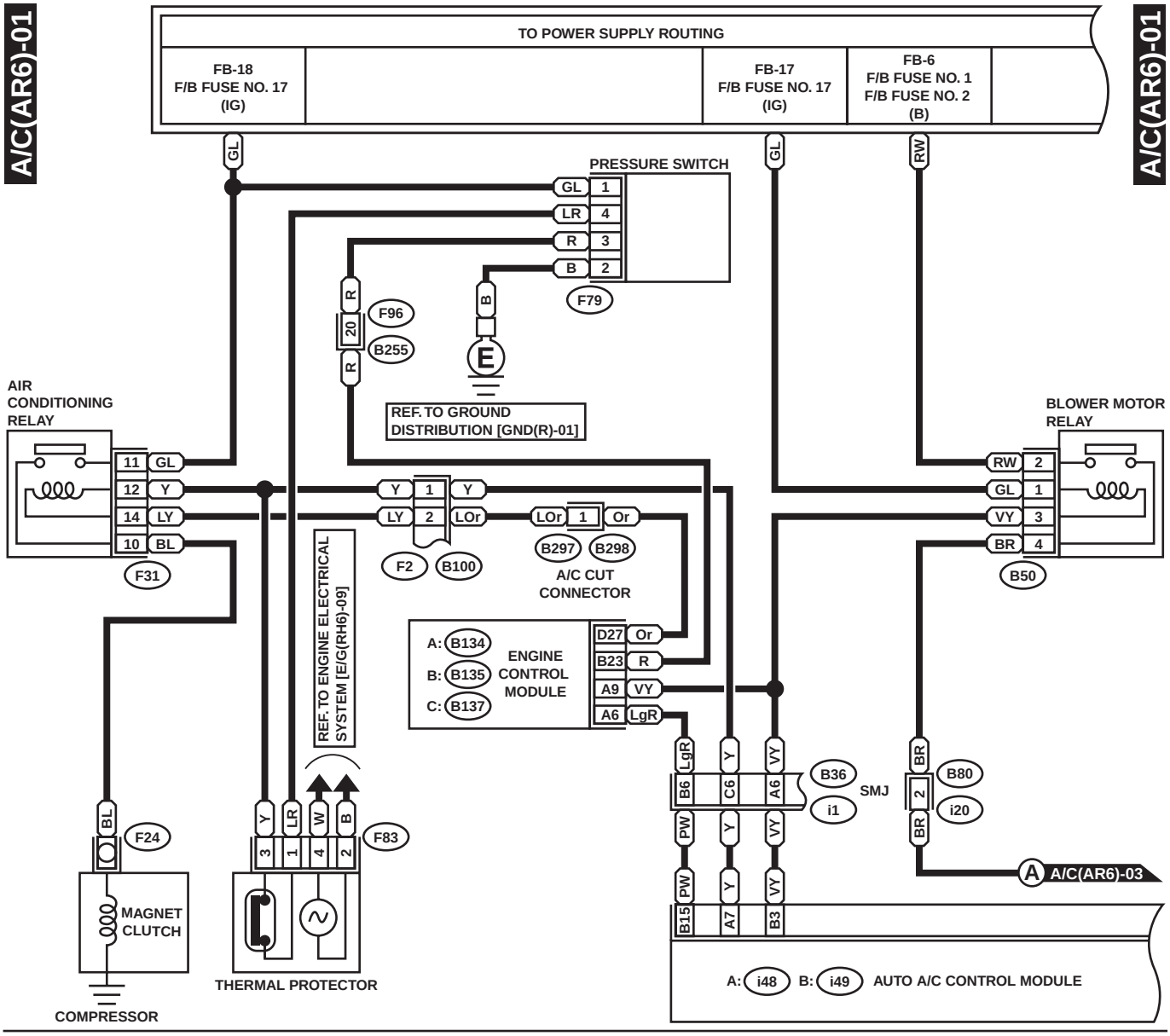


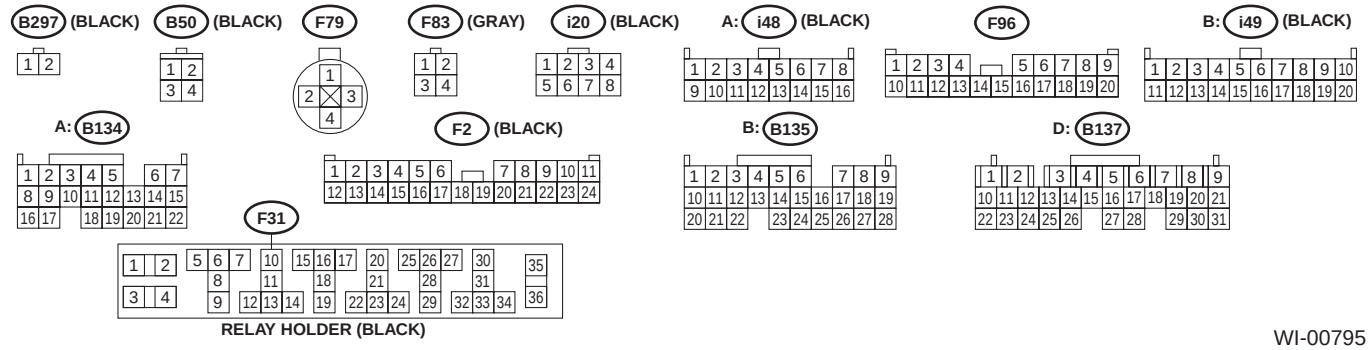
WI-00793


A/C(AR4)-04
A/C(AR4)-04
A: i48 B: i49 AUTO A/C CONTROL MODULE
A4
GR
A5
WR
A16
RB
A8
LW
A14
WOr
B11
YL
B1
GY
A6
WG
A/C(AR4)-03 C
GR
WR
i51
2
1
SUNLOAD SENSOR
Sb
Sb
WR
RB
LW
WOr
YL
GY
WG
3
9
11
1
2
4
7
8
10
i45 HEATER MODULE
i51 (BLACK)
1 2
i45 (BLACK)
1 2 3 4 5 6
7 8 9 10 11 12 13 14
A: i48 (BLACK)
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B: i49 (BLACK)
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

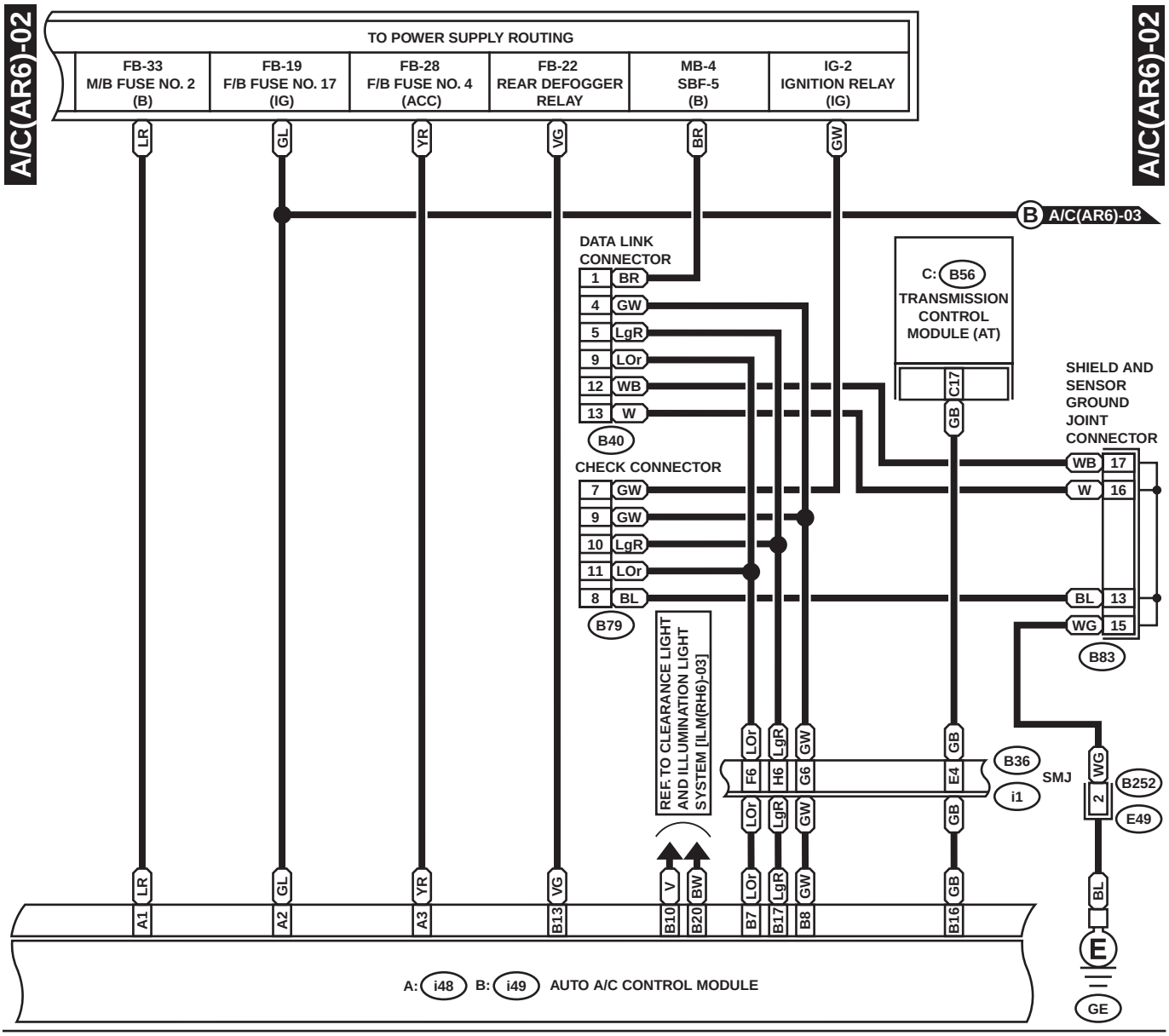
WI-00794

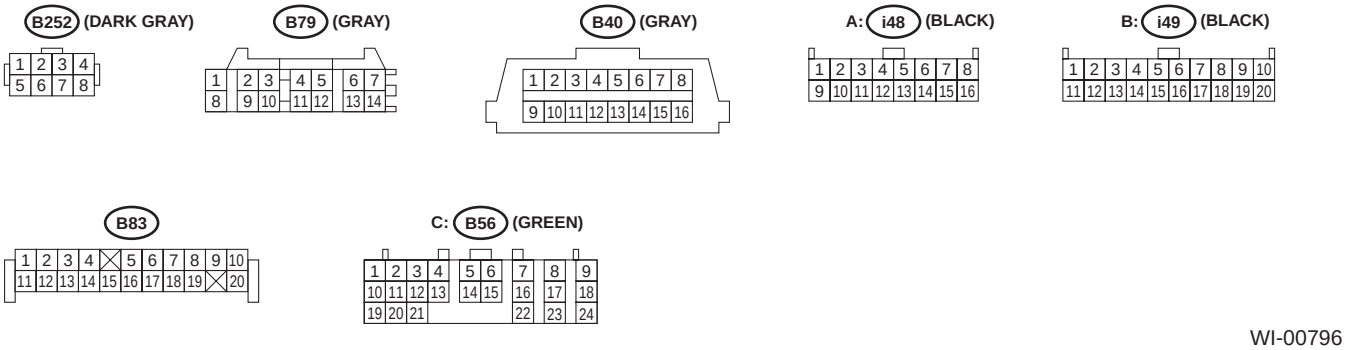
6. AUTO A/C RHD 6-CYLINDER ENGINE MODEL





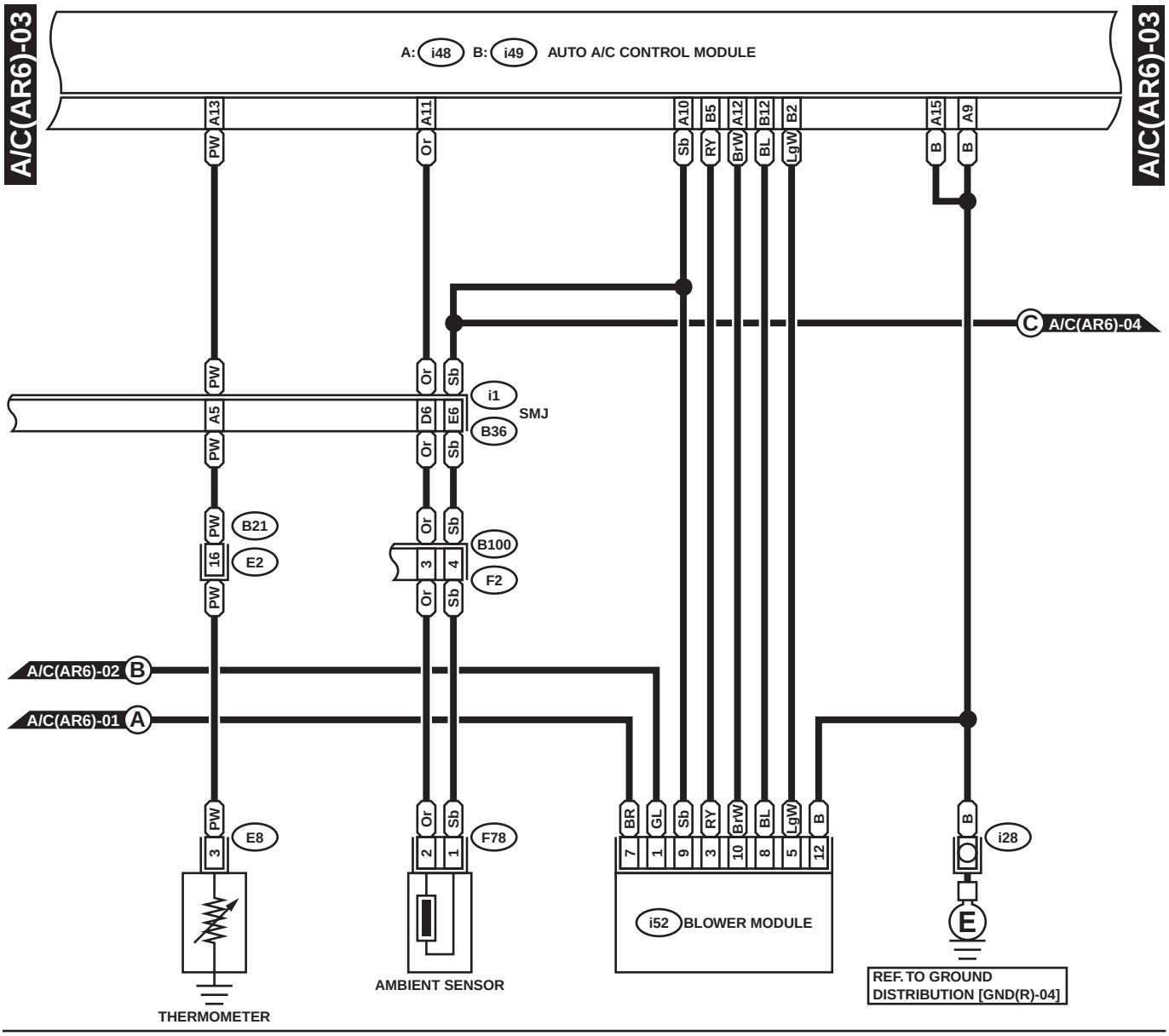
WI-00795

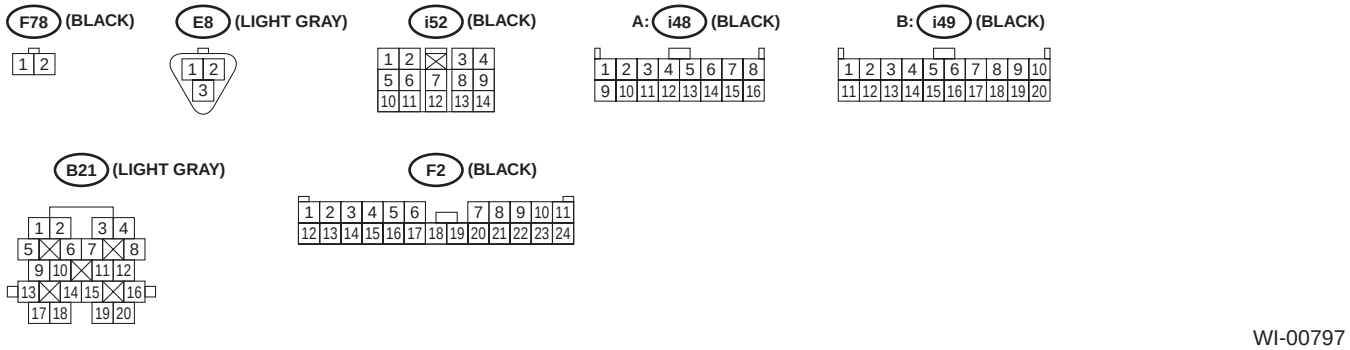

A/C(AR6)-02
A/C(AR6)-02
TO POWER SUPPLY ROUTING
FB-33 M/B FUSE NO. 2 (B)
FB-19 F/B FUSE NO. 17 (IG)
FB-28 F/B FUSE NO. 4 (ACC)
FB-22 REAR DEFOGGER RELAY
MB-4 SBF-5 (B)
IG-2 IGNITION RELAY (IG)
LR
GL
YR
VG
BR
GW
B A/C(AR6)-03
DATA LINK CONNECTOR
1 BR
4 GW
5 LgR
9 LOr
12 WB
13 W
B40
C: B56
TRANSMISSION CONTROL MODULE (AT)
C17
GB
SHIELD AND SENSOR GROUND JOINT CONNECTOR
WB 17
W 16
BL 13
WG 15
B83
CHECK CONNECTOR
7 GW
9 GW
10 LgR
11 LOr
8 BL
B79
REF. TO CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM [ILM(RH6)-03]
LOr
LgR
GW
GB
F6
H6
G6
E4
B36
i1
SMJ
WG
2
B252
E49
BL
E
GE
V
BW
A1
A2
A3
B13
B10
B20
B7
B17
B8
B16
A: i48 B: i49 AUTO A/C CONTROL MODULE


B252 (DARK GRAY)
B79 (GRAY)
B40 (GRAY)
A: i48 (BLACK)
B: i49 (BLACK)

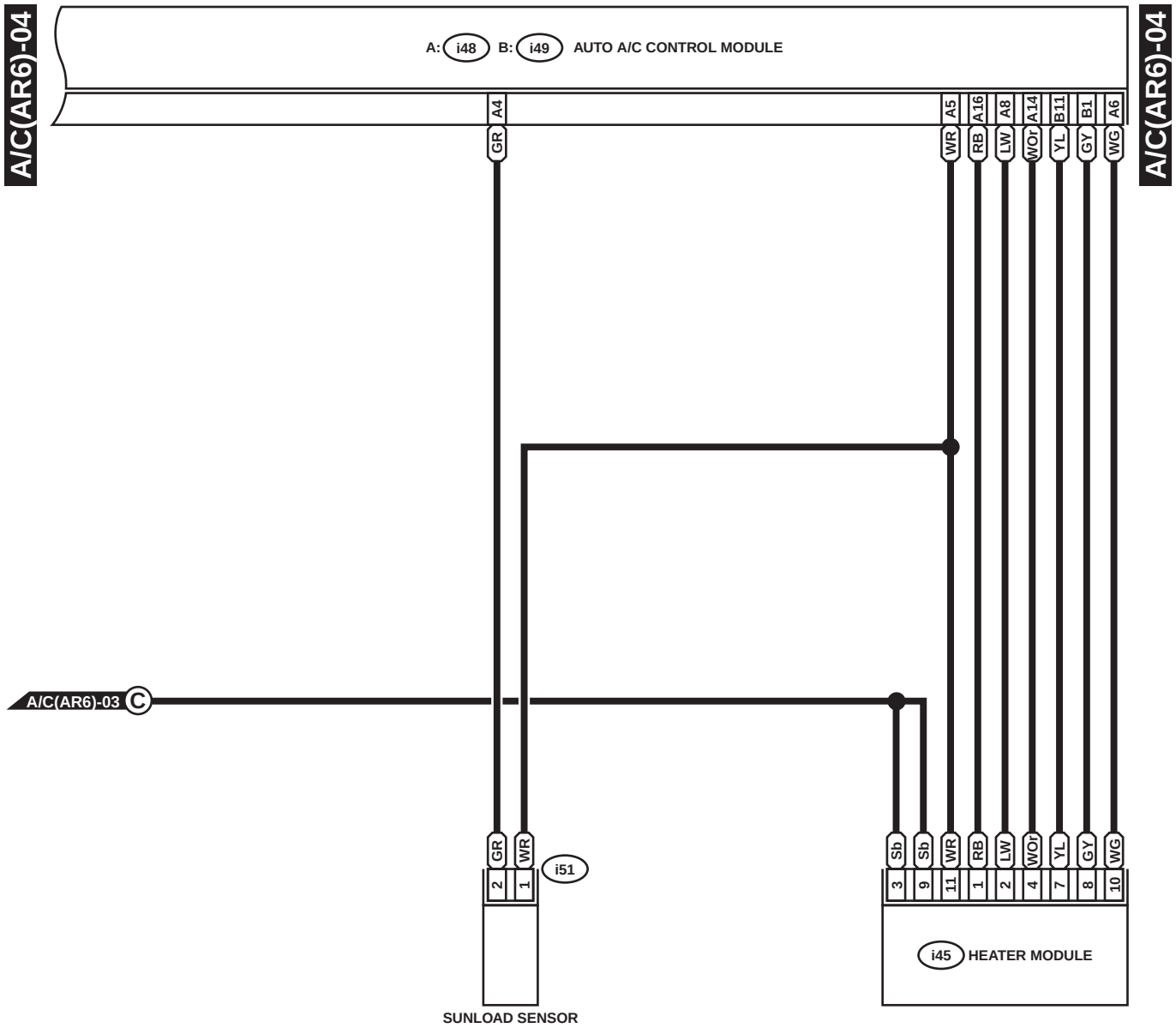
B83
C: B56 (GREEN)

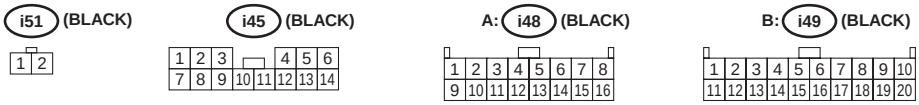
WI-00796


A/C(AR6)-03
A/C(AR6)-03
A: i48 B: i49 AUTO A/C CONTROL MODULE
A13 PW
A11 Or
A10 Sb
B5 RY
A12 BrW
B12 BL
B2 LgW
A15 B
A9 B
C A/C(AR6)-04
i1
SMJ
B36
A5 D6 E6
B21
16 E2
B100
3 4
F2
A/C(AR6)-02 B
A/C(AR6)-01 A
E8
F78
i52 BLOWER MODULE
i28
E
REF. TO GROUND DISTRIBUTION [GND(R)-04]
THERMOMETER
AMBIENT SENSOR


F78 (BLACK)
E8 (LIGHT GRAY)
i52 (BLACK)
A: i48 (BLACK)
B: i49 (BLACK)
B21 (LIGHT GRAY)
F2 (BLACK)

WI-00797


A/C(AR6)-04
A/C(AR6)-04
A: i48 B: i49 AUTO A/C CONTROL MODULE
A4
A5
A16
A8
A14
B11
B1
A6
GR
WR
RB
LW
WOr
YL
GY
WG
A/C(AR6)-03 C
i51
2
1
GR
WR
SUNLOAD SENSOR
3
9
11
1
2
4
7
8
10
Sb
Sb
WR
RB
LW
WOr
YL
GY
WG
i45 HEATER MODULE

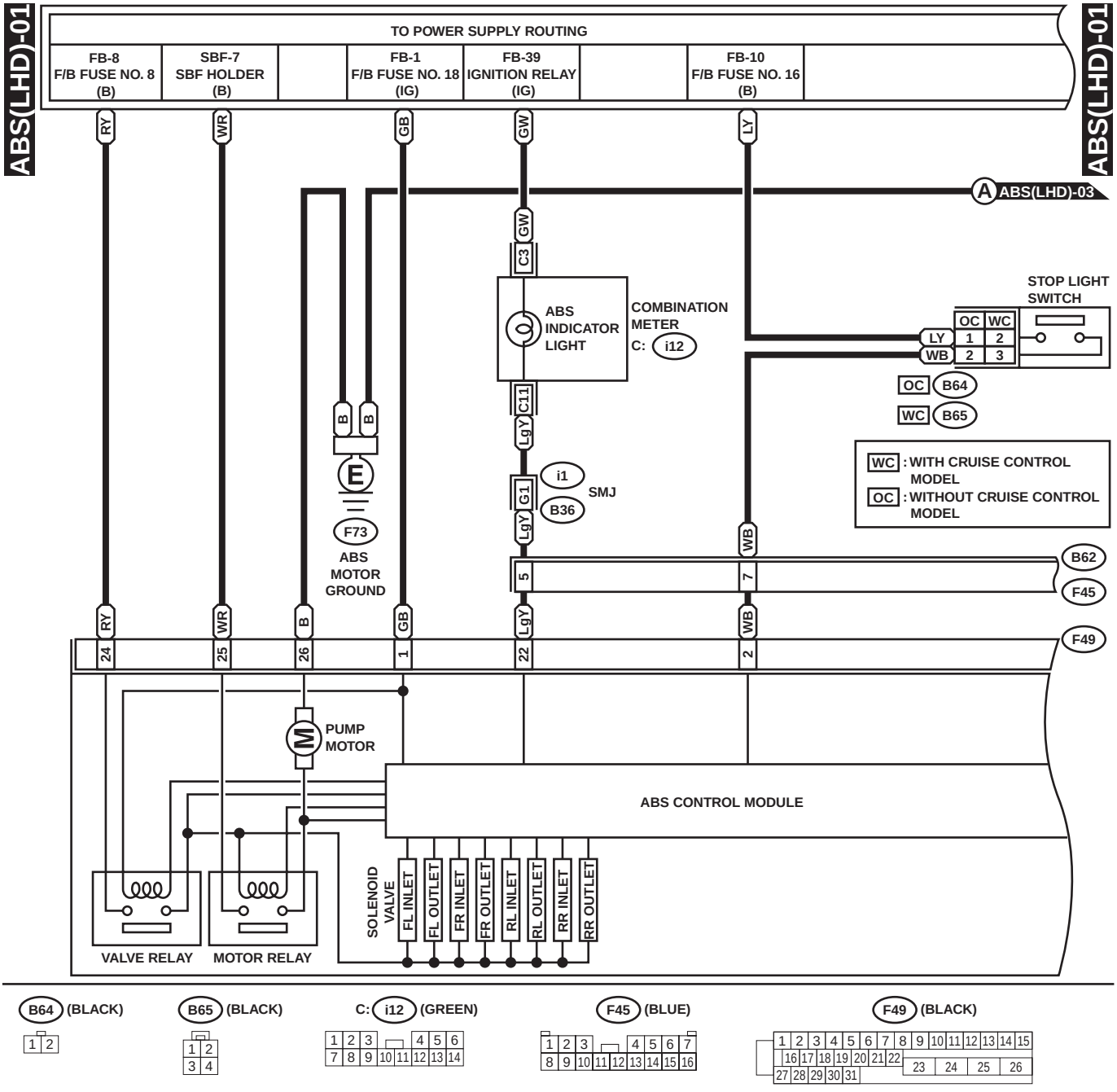

i51 (BLACK)
1 2
i45 (BLACK)
1 2 3 4 5 6
7 8 9 10 11 12 13 14
A: i48 (BLACK)
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B: i49 (BLACK)
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

WI-00798

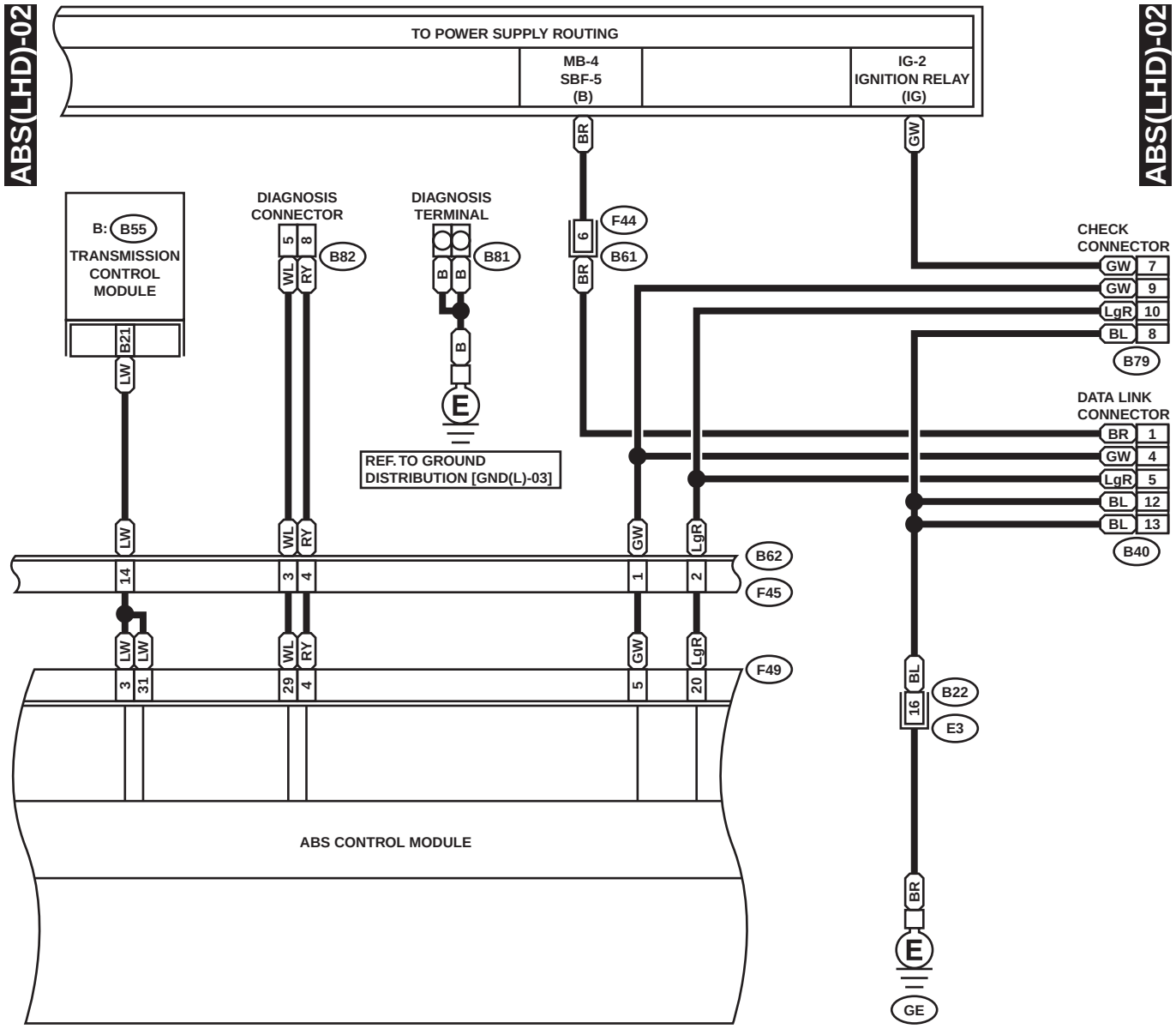
8. Anti-lock Brake System

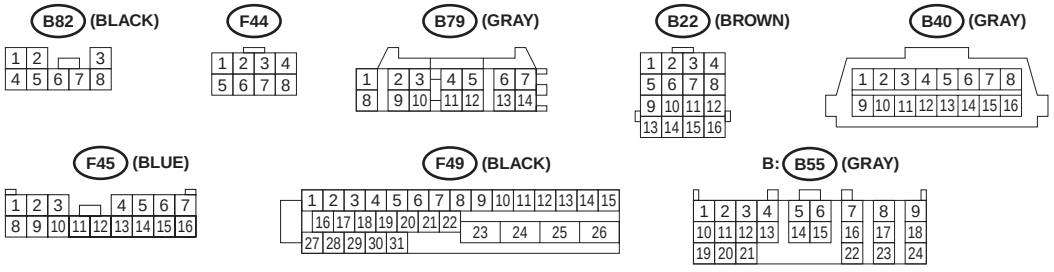
A: SCHEMATIC

1. LHD MODEL

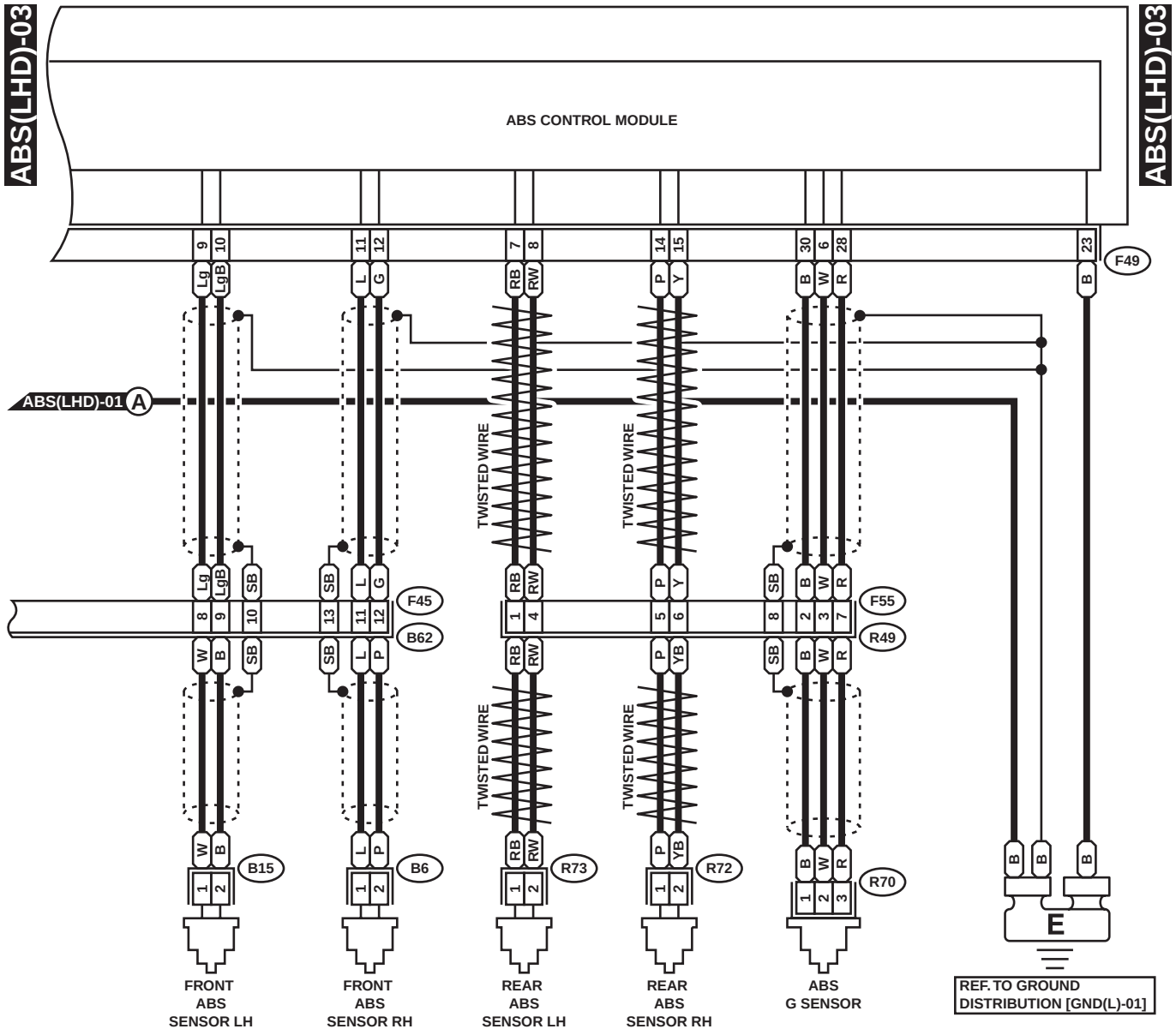


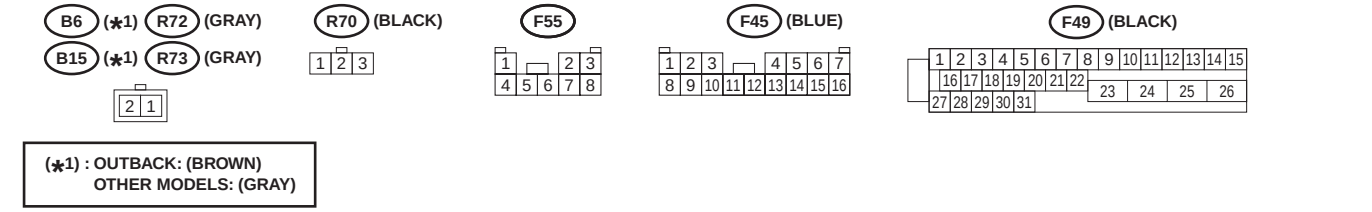
WI-00799


ABS(LHD)-02
ABS(LHD)-02
TO POWER SUPPLY ROUTING
MB-4
SBF-5
(B)
IG-2
IGNITION RELAY
(IG)
BR
GW
B: B55
TRANSMISSION
CONTROL
MODULE
B21
LW
DIAGNOSIS
CONNECTOR
B82
WL
RY
DIAGNOSIS
TERMINAL
B81
B
E
REF. TO GROUND
DISTRIBUTION [GND(L)-03]
F44
B61
CHECK
CONNECTOR
B79
DATA LINK
CONNECTOR
B40
LgR
B62
F45
F49
B22
E3
BL
GE
ABS CONTROL MODULE


B82 (BLACK)
F44
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
F45 (BLUE)
F49 (BLACK)
B: B55 (GRAY)

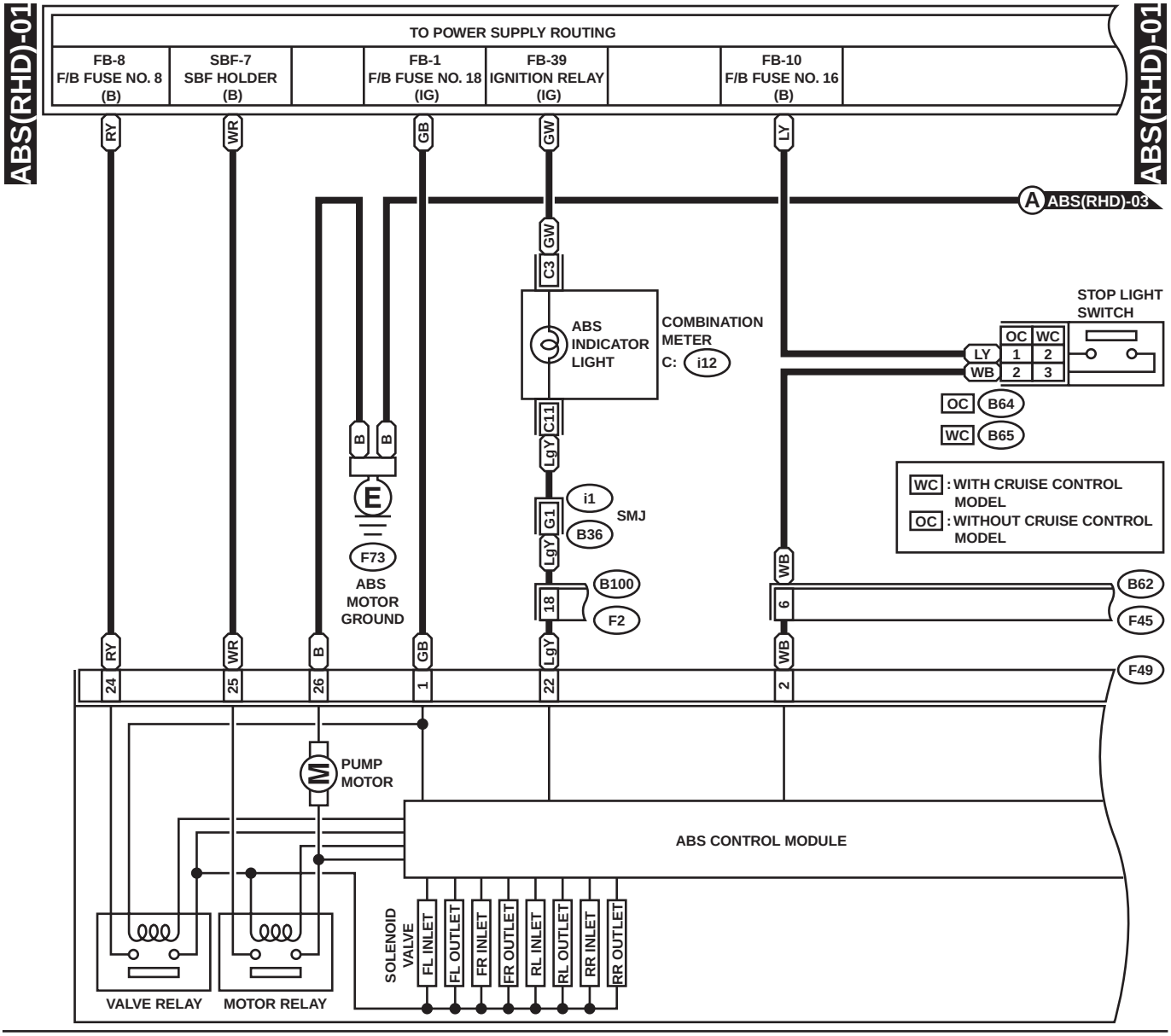
WI-00800

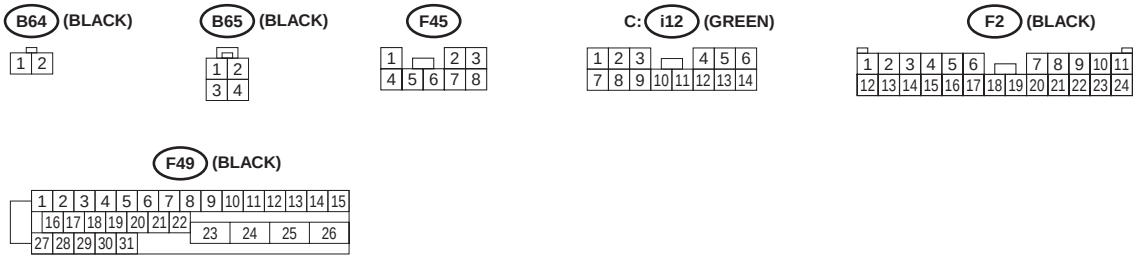

ABS(LHD)-03
ABS CONTROL MODULE
ABS(LHD)-03
F49
ABS(LHD)-01 A
TWISTED WIRE
TWISTED WIRE
F45
B62
F55
R49
TWISTED WIRE
TWISTED WIRE
B15
B6
R73
R72
R70
E
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR
REF. TO GROUND DISTRIBUTION [GND(L)-01]


B6 (*1) R72 (GRAY)
B15 (*1) R73 (GRAY)
R70 (BLACK)
F55
F45 (BLUE)
F49 (BLACK)
(*1) : OUTBACK: (BROWN)
OTHER MODELS: (GRAY)

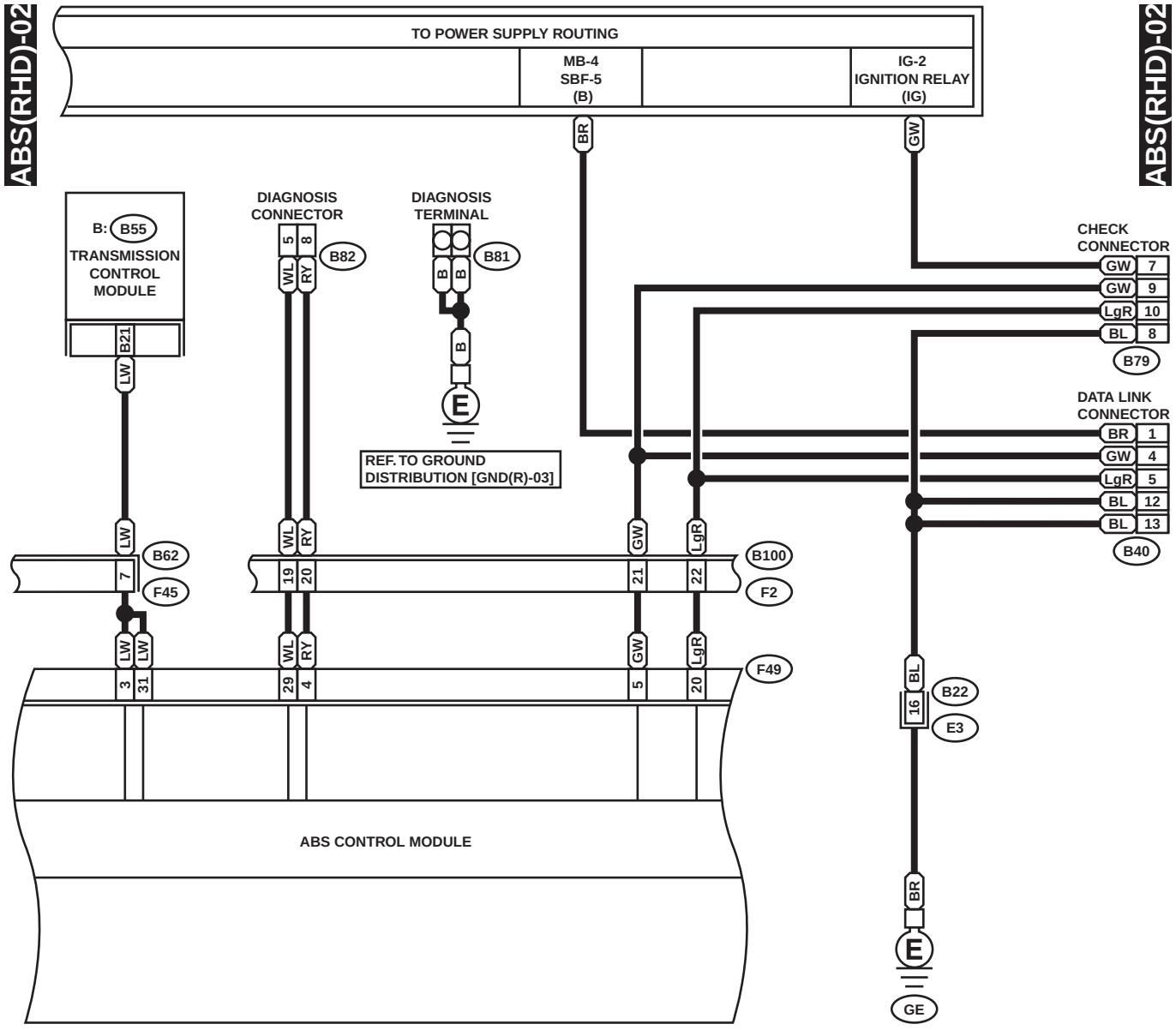
WI-00801

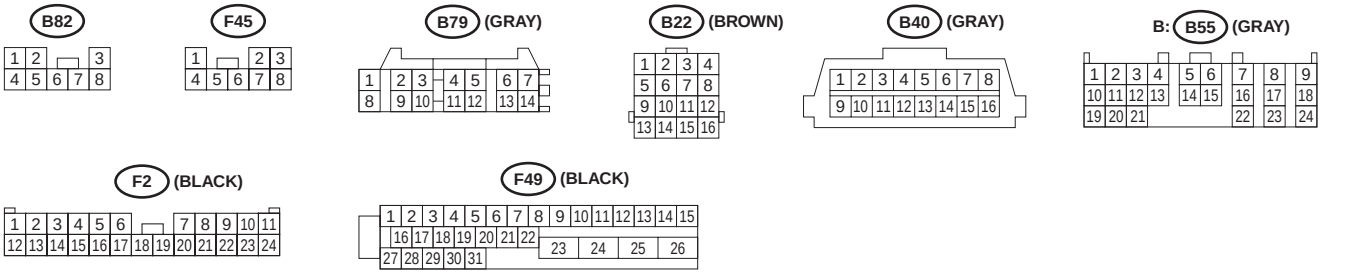
2. RHD NON-TURBO ENGINE MODEL



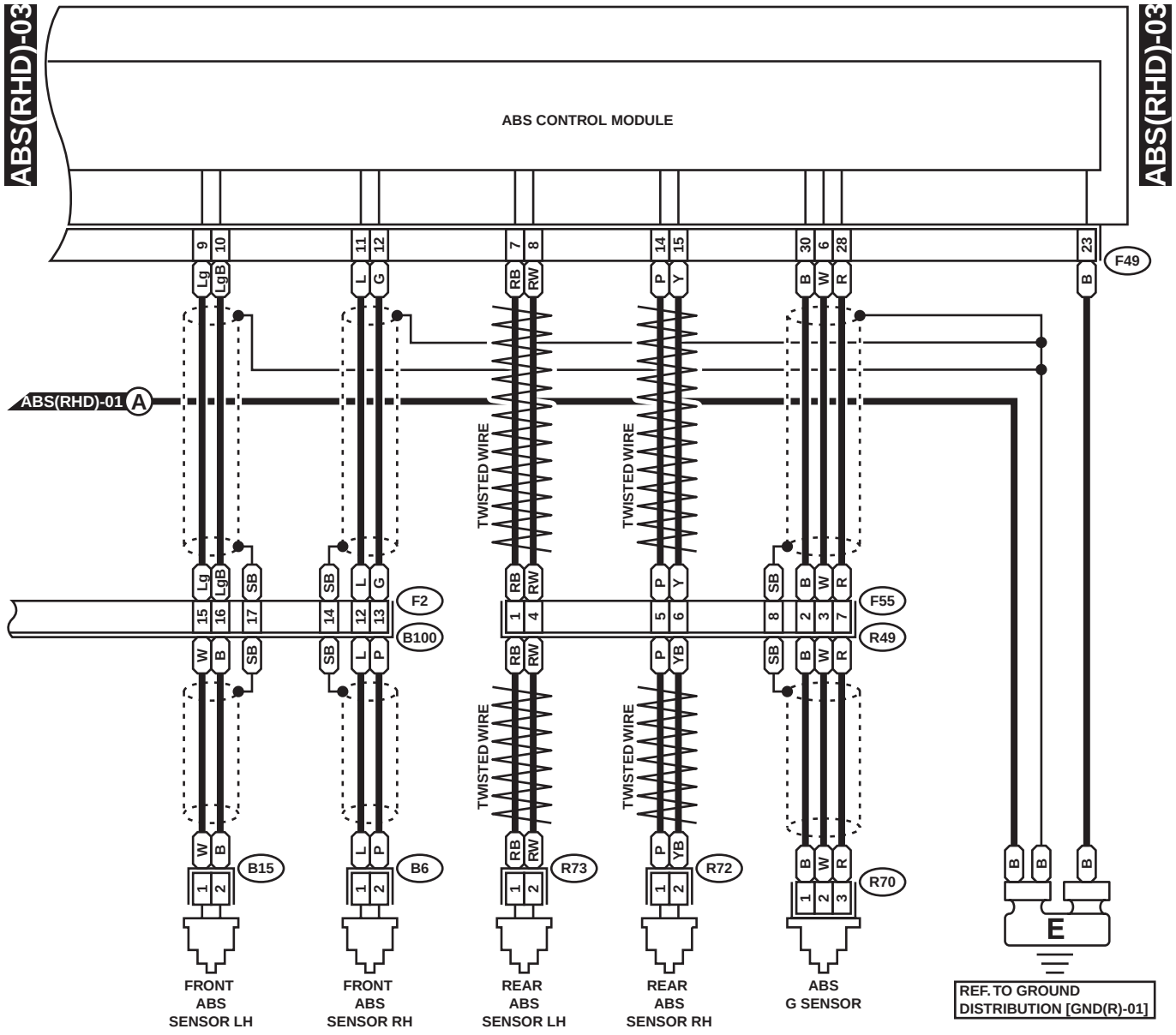


WI-00802


ABS(RHD)-02
TO POWER SUPPLY ROUTING
MB-4
SBF-5
(B)
IG-2
IGNITION RELAY
(IG)
BR
GW
B: B55
TRANSMISSION CONTROL MODULE
B21
LW
DIAGNOSIS CONNECTOR
5
8
WL
RY
B82
DIAGNOSIS TERMINAL
B81
B
B
B
E
REF. TO GROUND DISTRIBUTION [GND(R)-03]
CHECK CONNECTOR
GW 7
GW 9
LgR 10
BL 8
B79
DATA LINK CONNECTOR
BR 1
GW 4
LgR 5
BL 12
BL 13
B40
LW
B62
7
F45
WL
RY
19
20
GW
LgR
21
22
B100
F2
LW
LW
3
31
WL
RY
29
4
GW
LgR
5
20
F49
BL
16
B22
E3
ABS CONTROL MODULE
BR
E
GE


B82
F45
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
B: B55 (GRAY)
F2 (BLACK)
F49 (BLACK)

WI-00803



B6 (*1) R72 (GRAY)
B15 (*1) R73 (GRAY)

R70 (BLACK)

F55

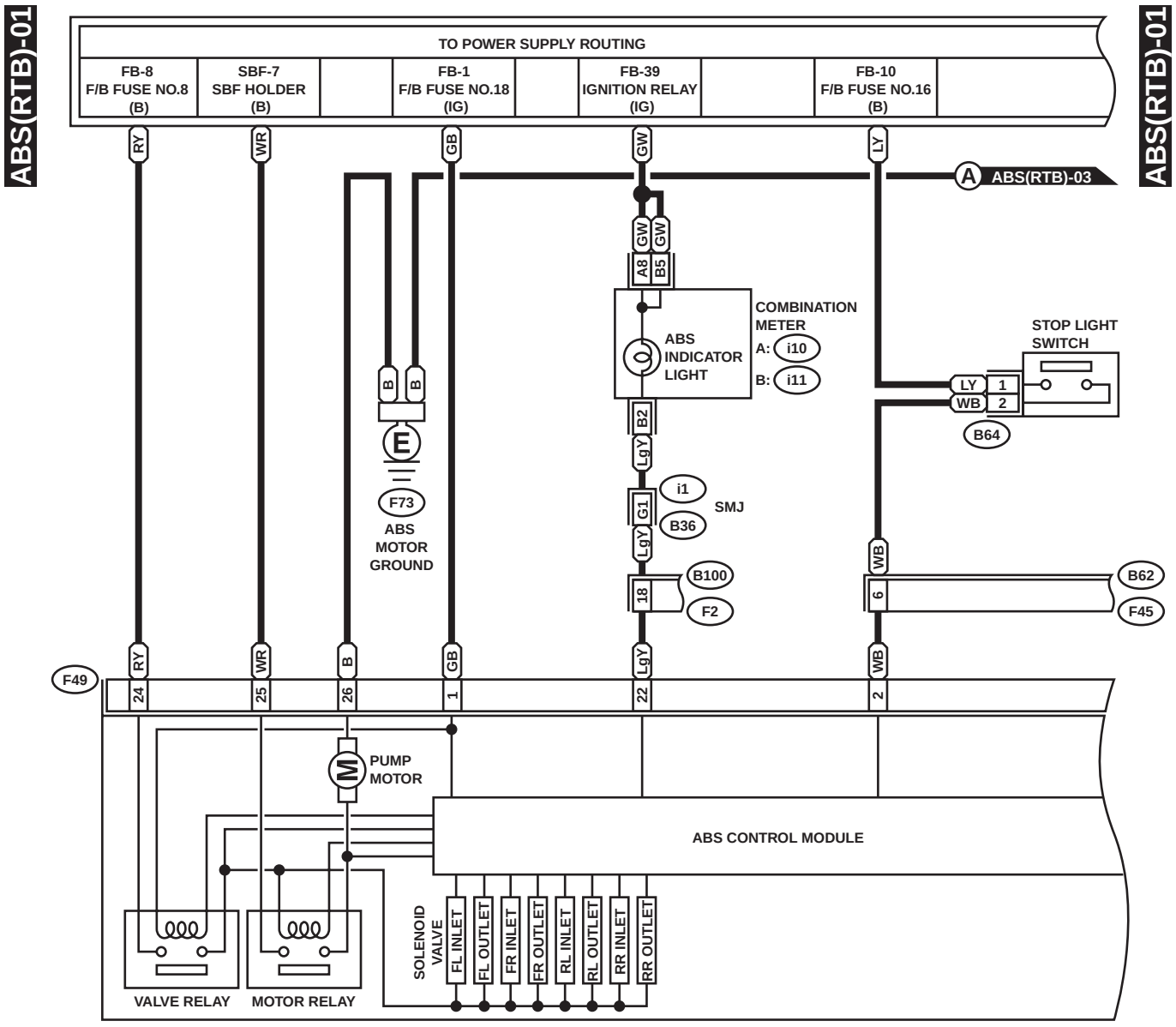
F2 (BLACK)

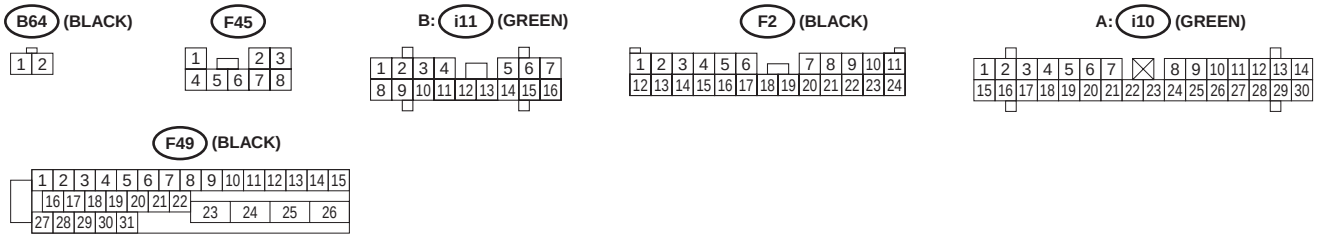
F49 (BLACK)

(*1) : OUTBACK: (BROWN)
OTHER MODELS: (GRAY)

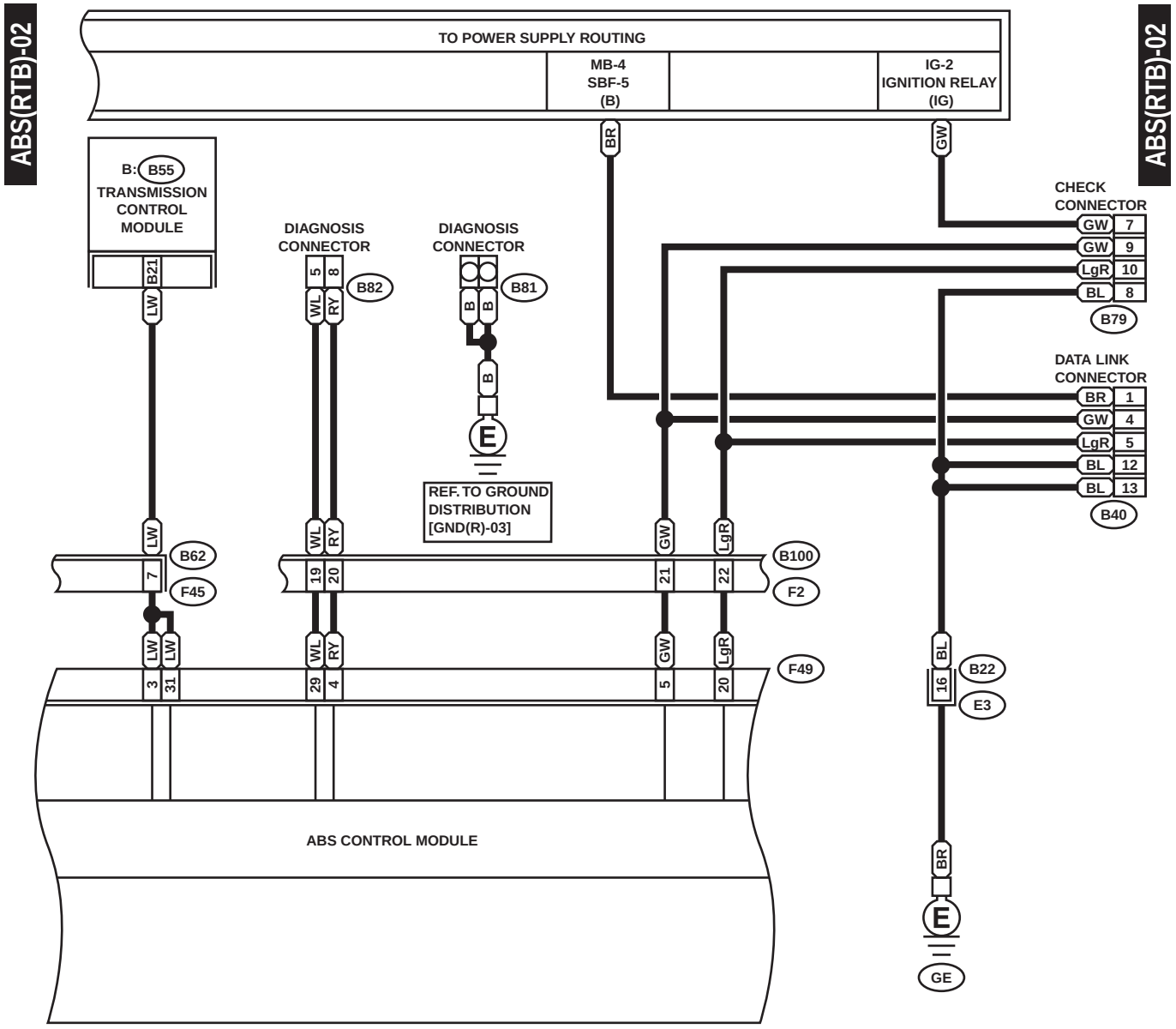
WI-00804

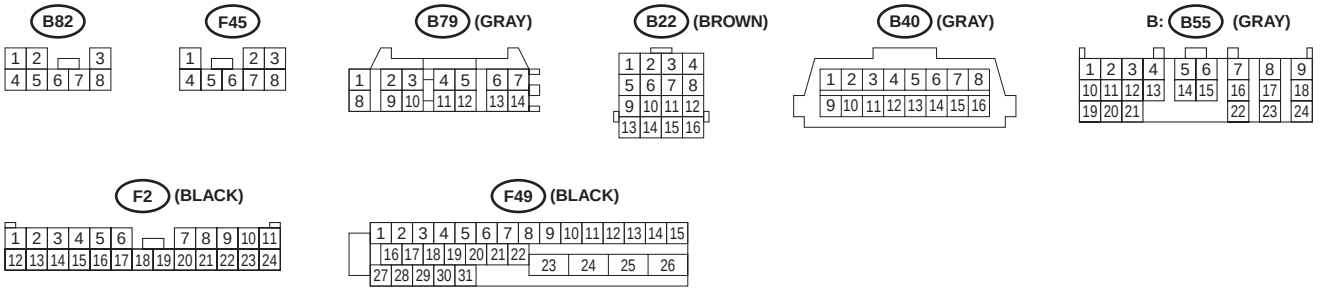
3. RHD TURBO ENGINE MODEL





WI-00805


ABS(RTB)-02
ABS(RTB)-02
TO POWER SUPPLY ROUTING
MB-4
SBF-5
(B)
IG-2
IGNITION RELAY
(IG)
BR
GW
B: B55
TRANSMISSION
CONTROL
MODULE
B21
LW
DIAGNOSIS
CONNECTOR
B82
WL
RY
DIAGNOSIS
CONNECTOR
B81
B
B
B
E
REF. TO GROUND
DISTRIBUTION
[GND(R)-03]
CHECK
CONNECTOR
GW 7
GW 9
LgR 10
BL 8
B79
DATA LINK
CONNECTOR
BR 1
GW 4
LgR 5
BL 12
BL 13
B40
LW
B62
7
F45
WL
RY
19
20
GW
LgR
21
22
B100
F2
LW
LW
3
31
WL
RY
29
4
GW
LgR
5
20
F49
BL
16
B22
E3
ABS CONTROL MODULE
BR
E
GE


B82
F45
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
B: B55 (GRAY)

F2 (BLACK)
F49 (BLACK)

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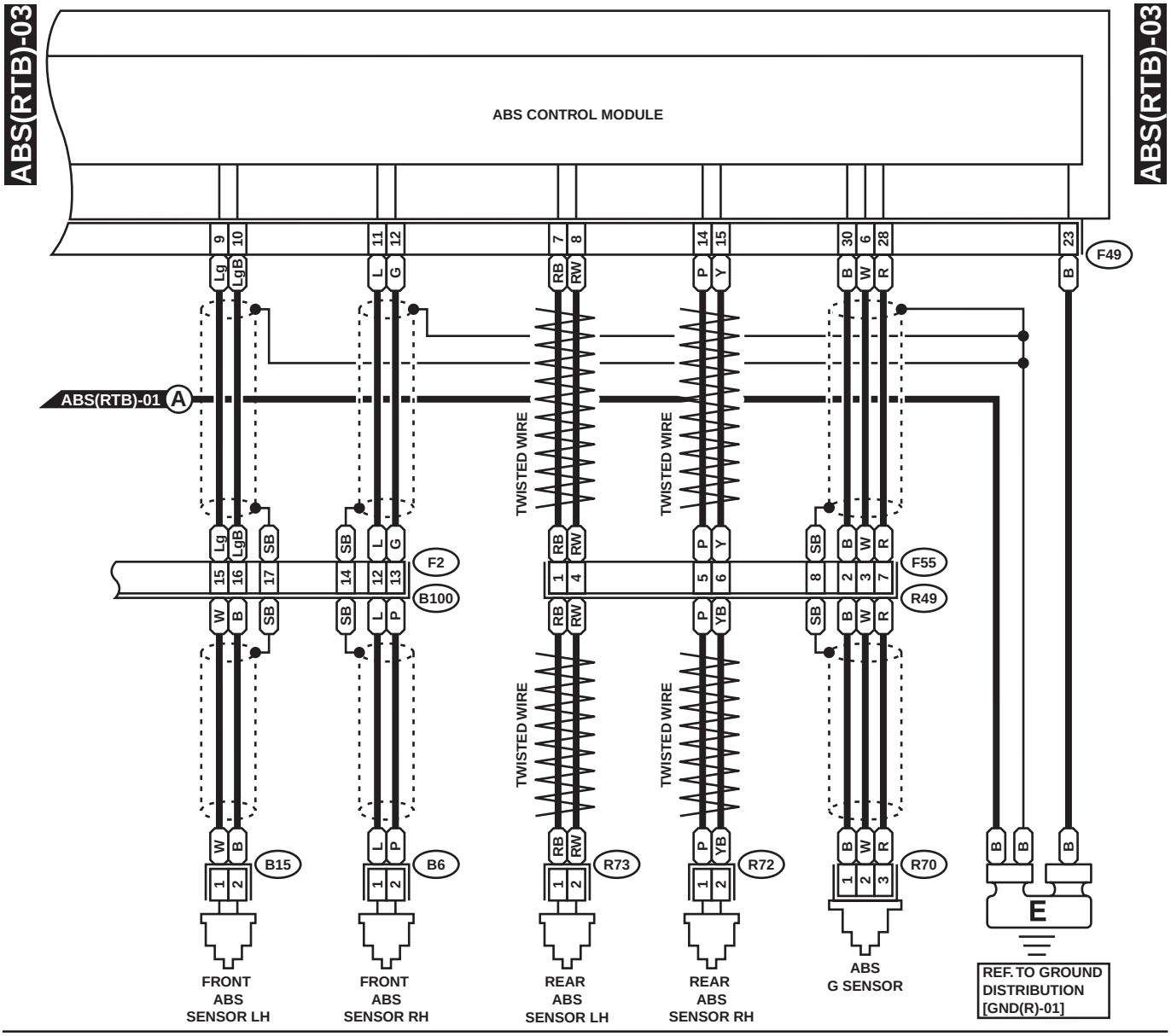
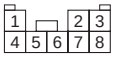


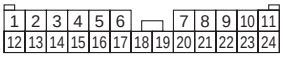
B6 (GRAY)
B15 (GRAY)
R72 (GRAY)
R73 (GRAY)

R70 (BLACK)

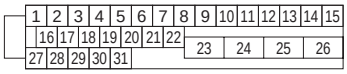
F55



F2 (BLACK)



F49 (BLACK)



WI-00807

MEMO: