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.

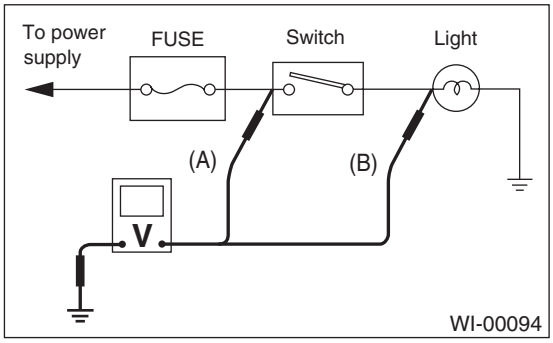
5. CONFIRMATION OF SYSTEM OPERATION

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

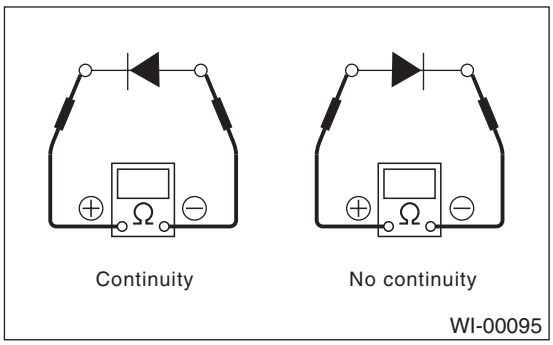
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector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



4) With the test set-up held as it is, turn the 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.



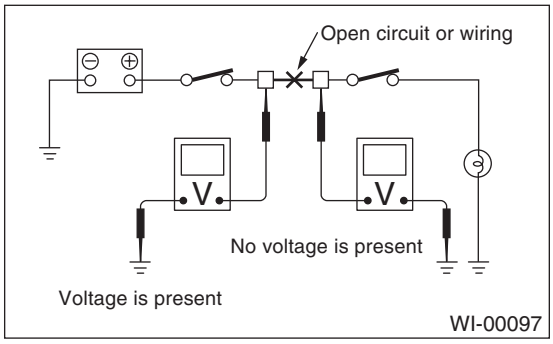
3) Symbol "❍—❍" indicates that continuity exists between two points or terminals. For example, when a switch position is at "3", continuity exists among terminals 1, 3 and 6, as shown in the table below.

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

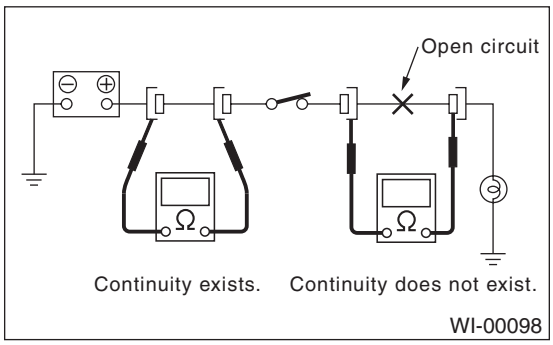
WI-00096

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.

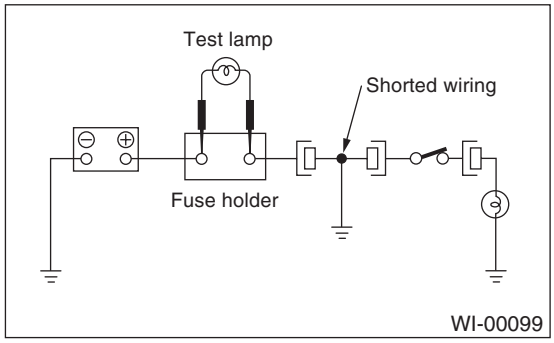


2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.

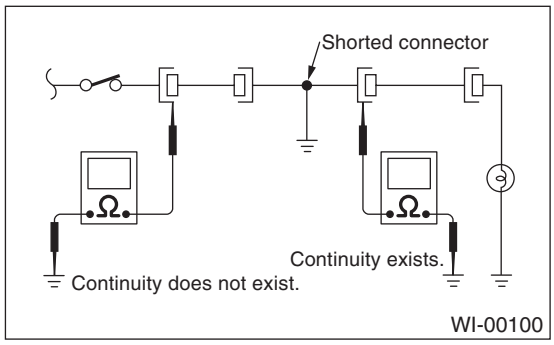


4. HOW TO DETERMINE A SHORT CIRCUIT

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 the ohmmeter indicates continuity between a particular connector and ground, that connector is shorted.

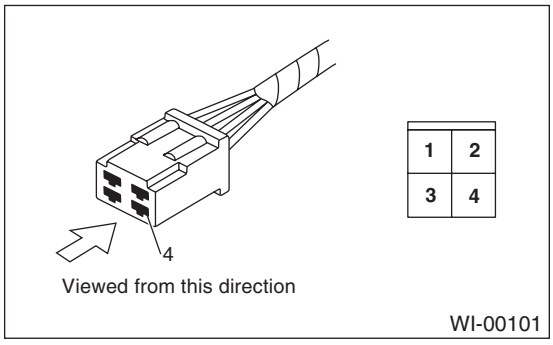


C: HOW TO READ WIRING DIAGRAMS

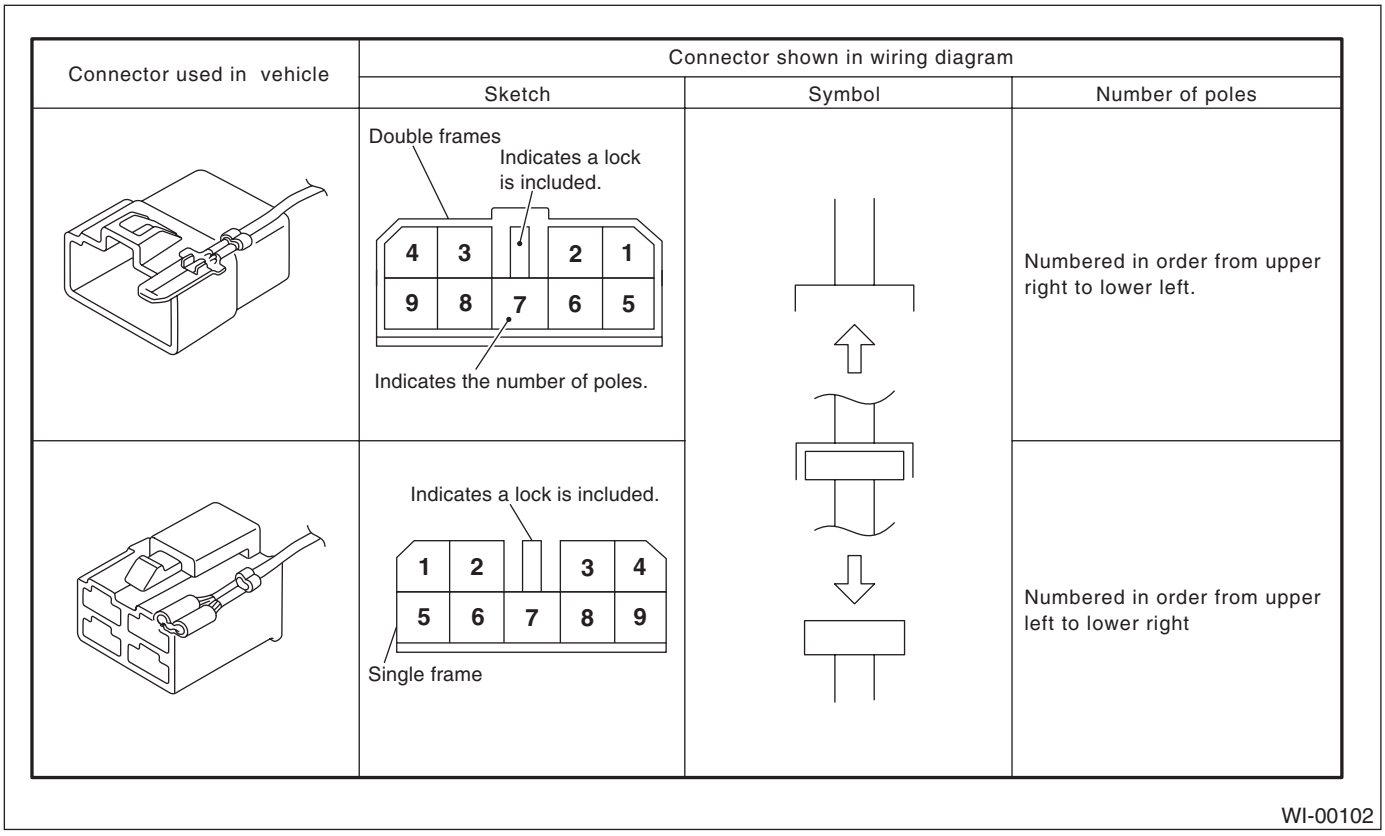
1. WIRING DIAGRAM

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:

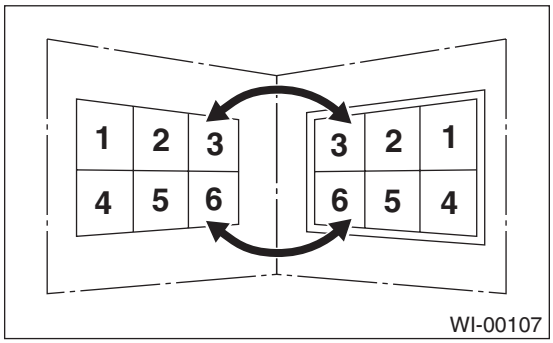
- Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



- 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.

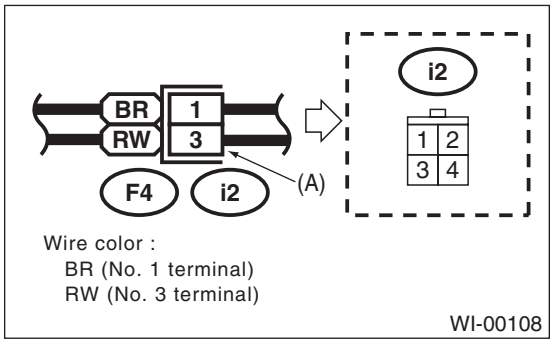


• When one set of connectors is viewed from the front side, the pole numbers of one connector are symmetrical to those of the other. When these two connectors are connected as a unit, the poles which have the same number are joined.

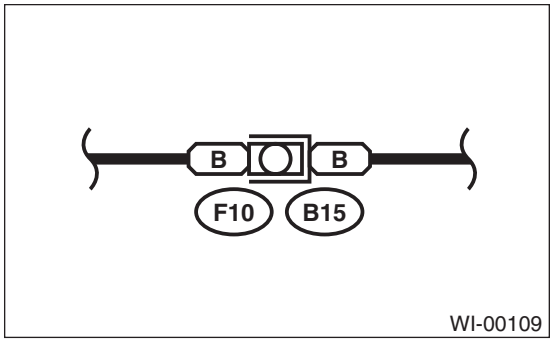


• Electrical wiring harness:
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.
• The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal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

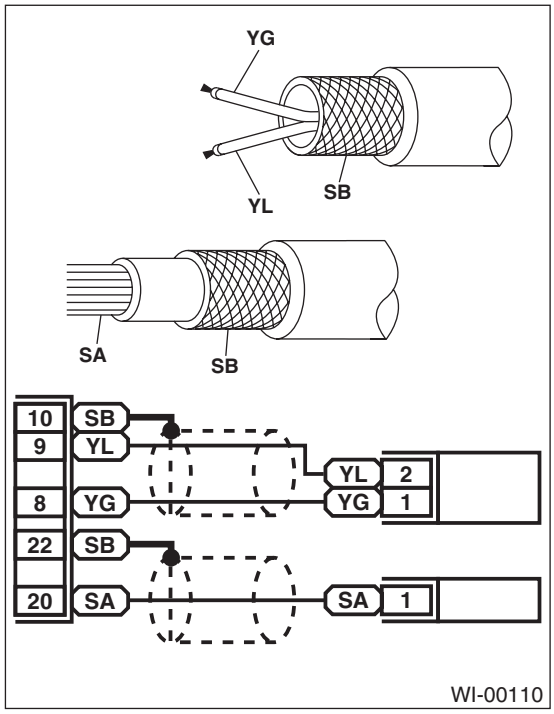


• In the wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

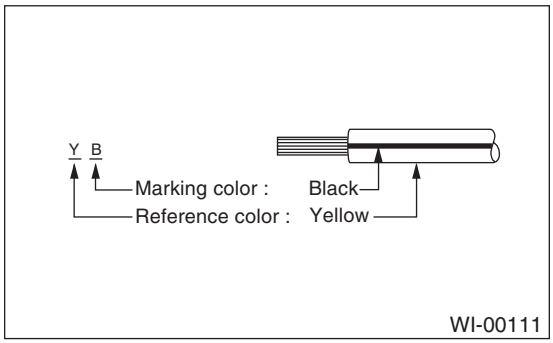


• The following color codes are used to indicate the colors of the wires used.

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.



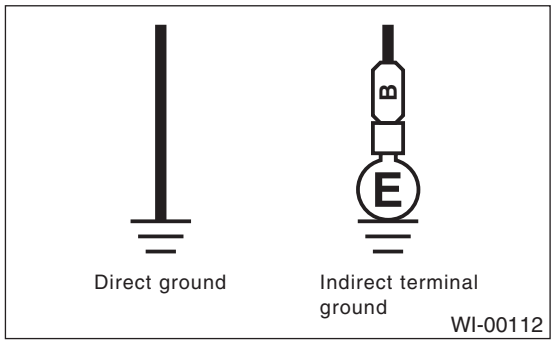
• The table lists the nominal sectional areas and allowable currents of the wires.

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.

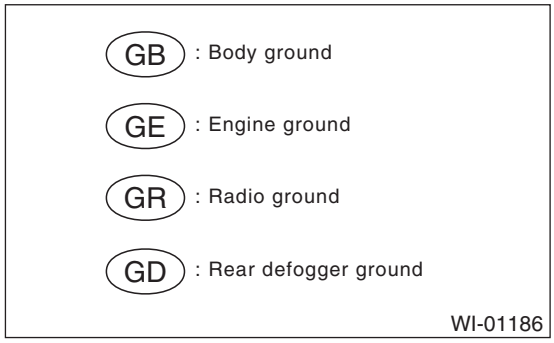
Nominal sectional area mm^2	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32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

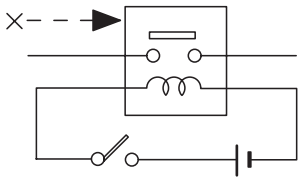
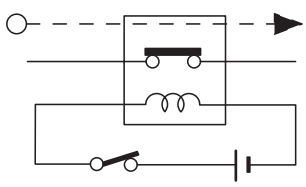
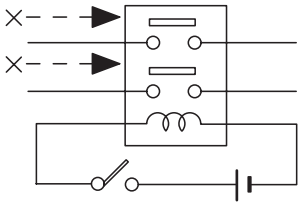
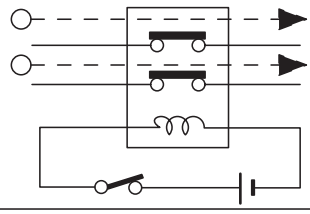
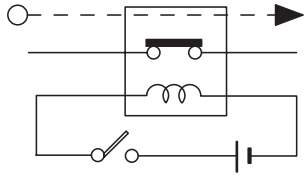
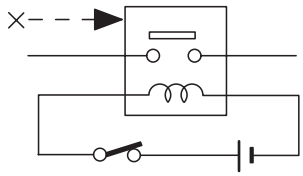
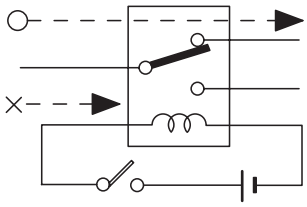
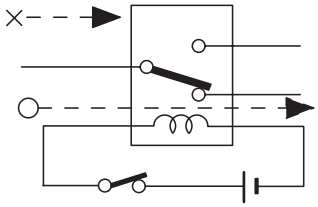


• The ground points shown in the wiring diagram refer to the following:

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:

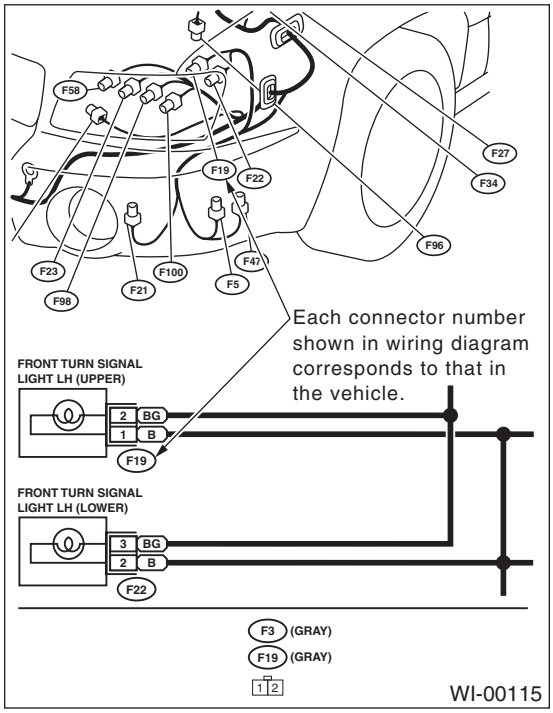
○ ⟶ : Current flows.

× ⟶ : Current does not flow.

WI-00114

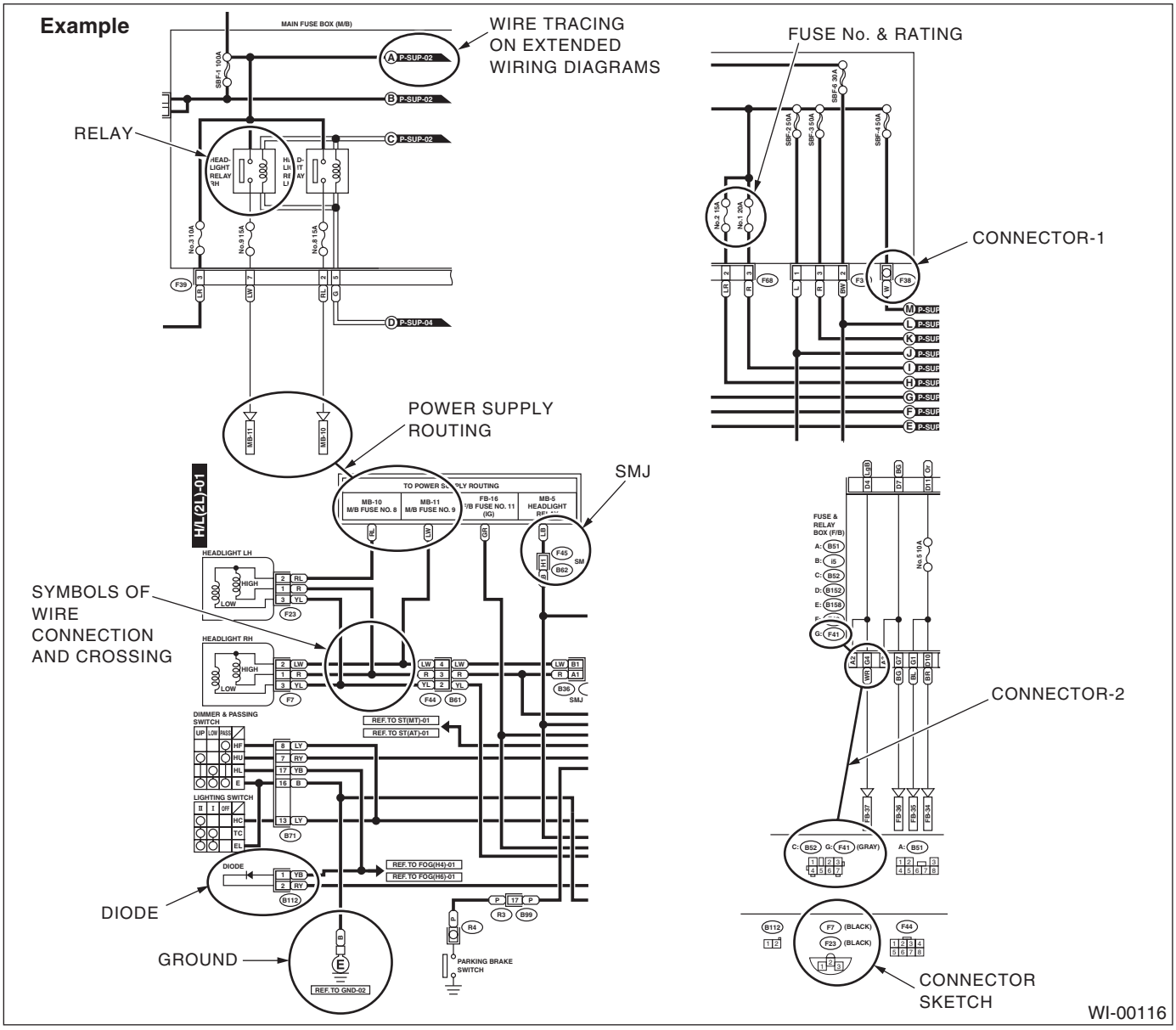
• Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a “F” for F8, “i” for i16, etc.) and the type of wiring harness.
The first character 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 “G2” refers to No. 2 terminal of connector (G: 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.

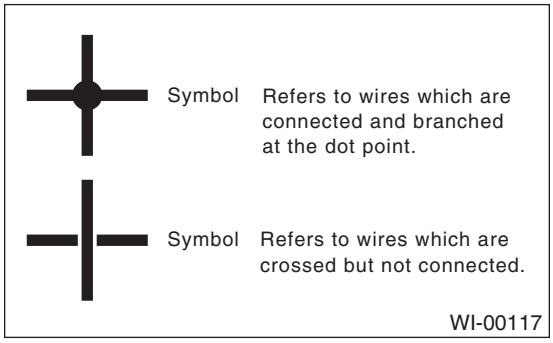
8. DIODE

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
A/B	Air Bag
ABS	Antilock Brake System
ACC	Accessory
A/C	Air Conditioning
A/F	Air Fuel
AT	Automatic Transmission
ATF	Automatic Transmission Fluid
AWD	All Wheel Drive
B	Battery
D	Drive Range
E	Ground
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
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
TGV	Tumble Generation Valve
UP	Up
WASH	Washer

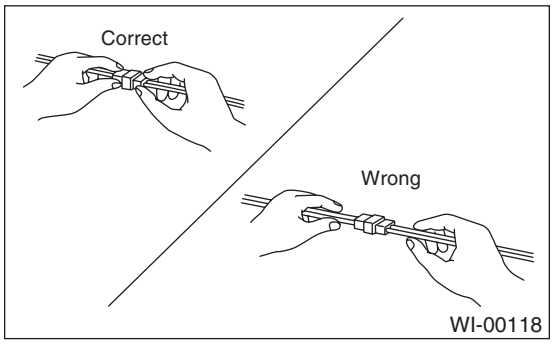
2. Working Precautions

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

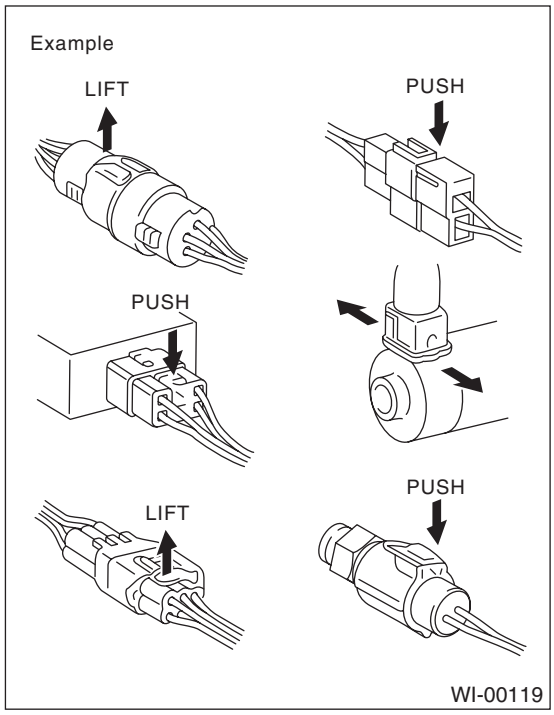
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running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

B: PRECAUTIONS IN TROUBLE DIAGNOSIS AND REPAIR OF ELECTRIC PARTS

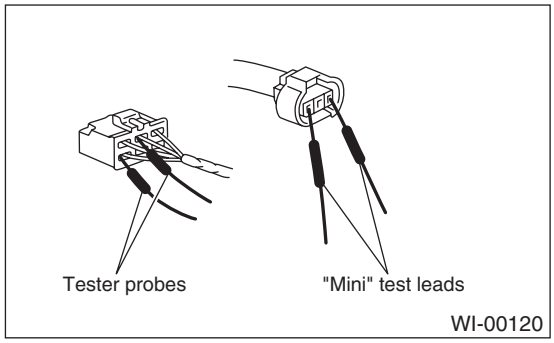
1) The battery cable must be disconnected from the battery's (–) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts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



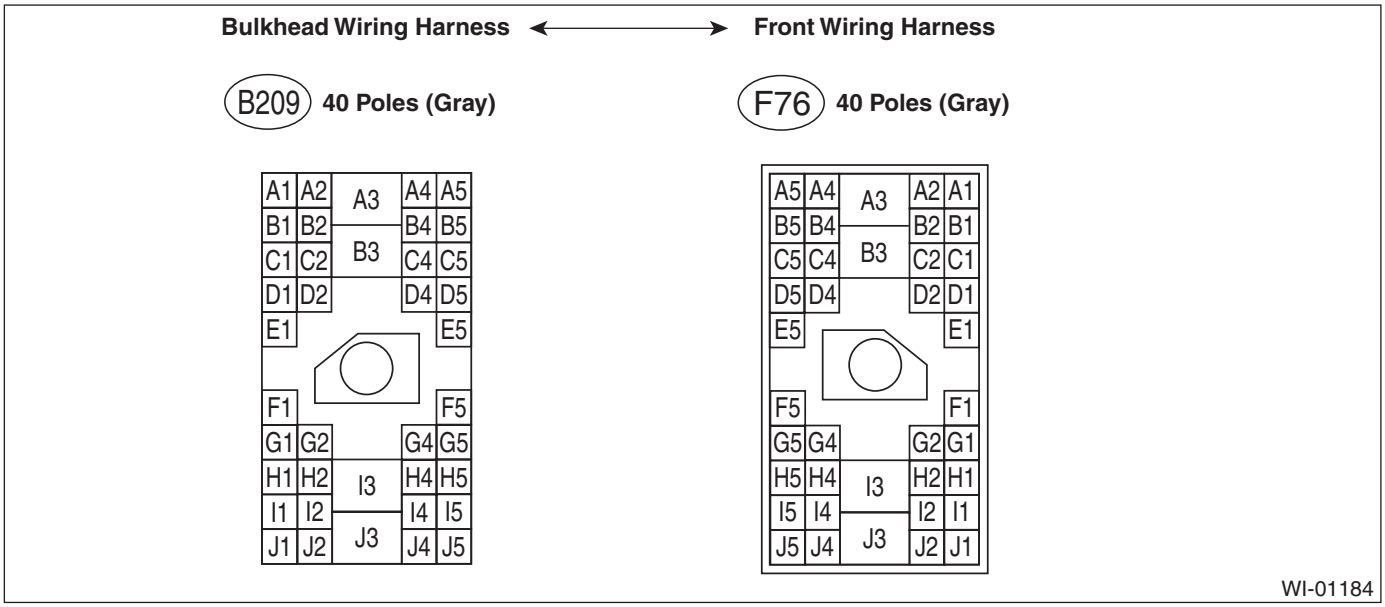
7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts.
Handle them with care so that they are not dropped or mishandled.

3. Super Multiple Junction (SMJ)

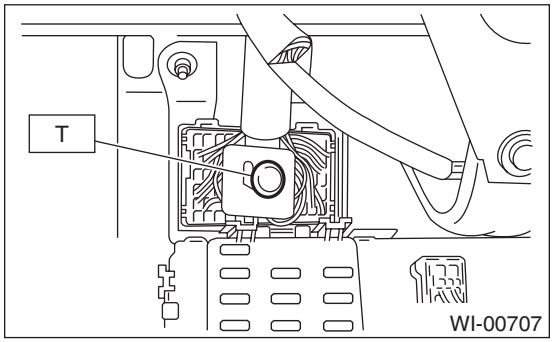
A: HOW TO USE SUPER MULTIPLE JUNCTION (SMJ)

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

B: TERMINAL ARRANGEMENT



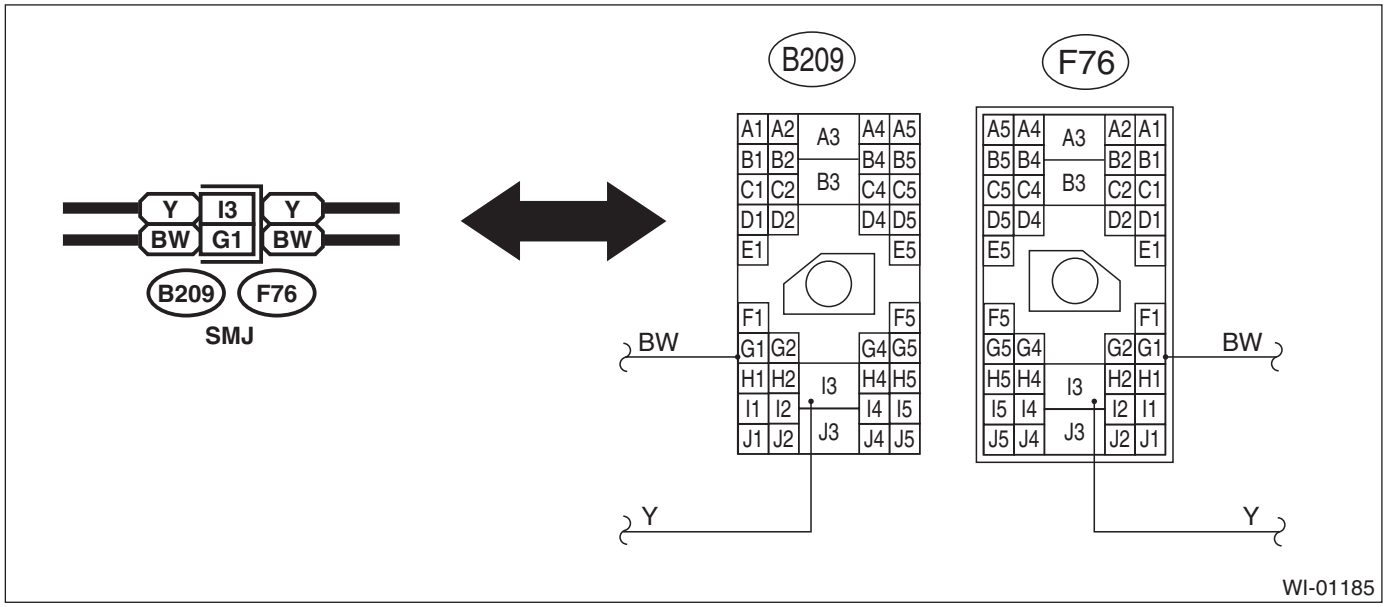
C: INSTALLATION



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



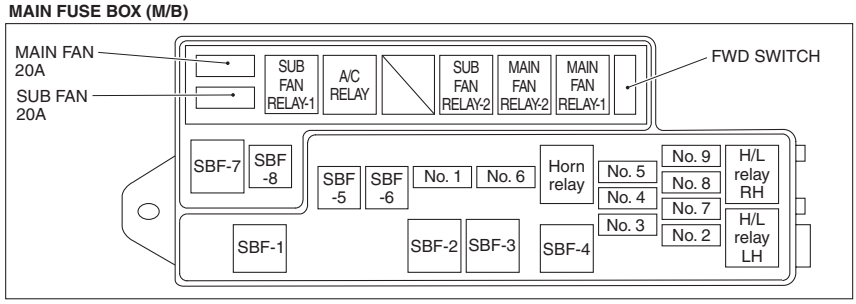
4. Power Supply Routing

A: SCHEMATIC

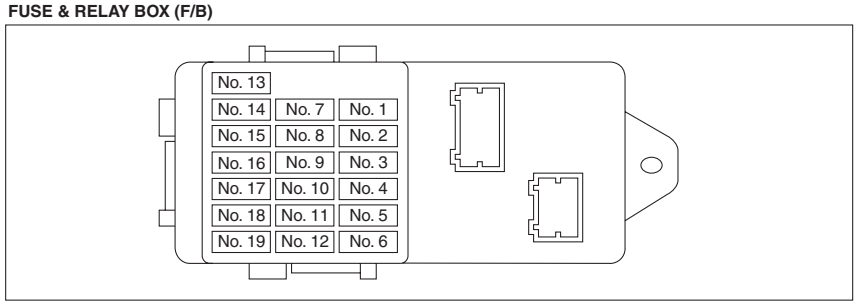
P-SUP-01

P-SUP-01

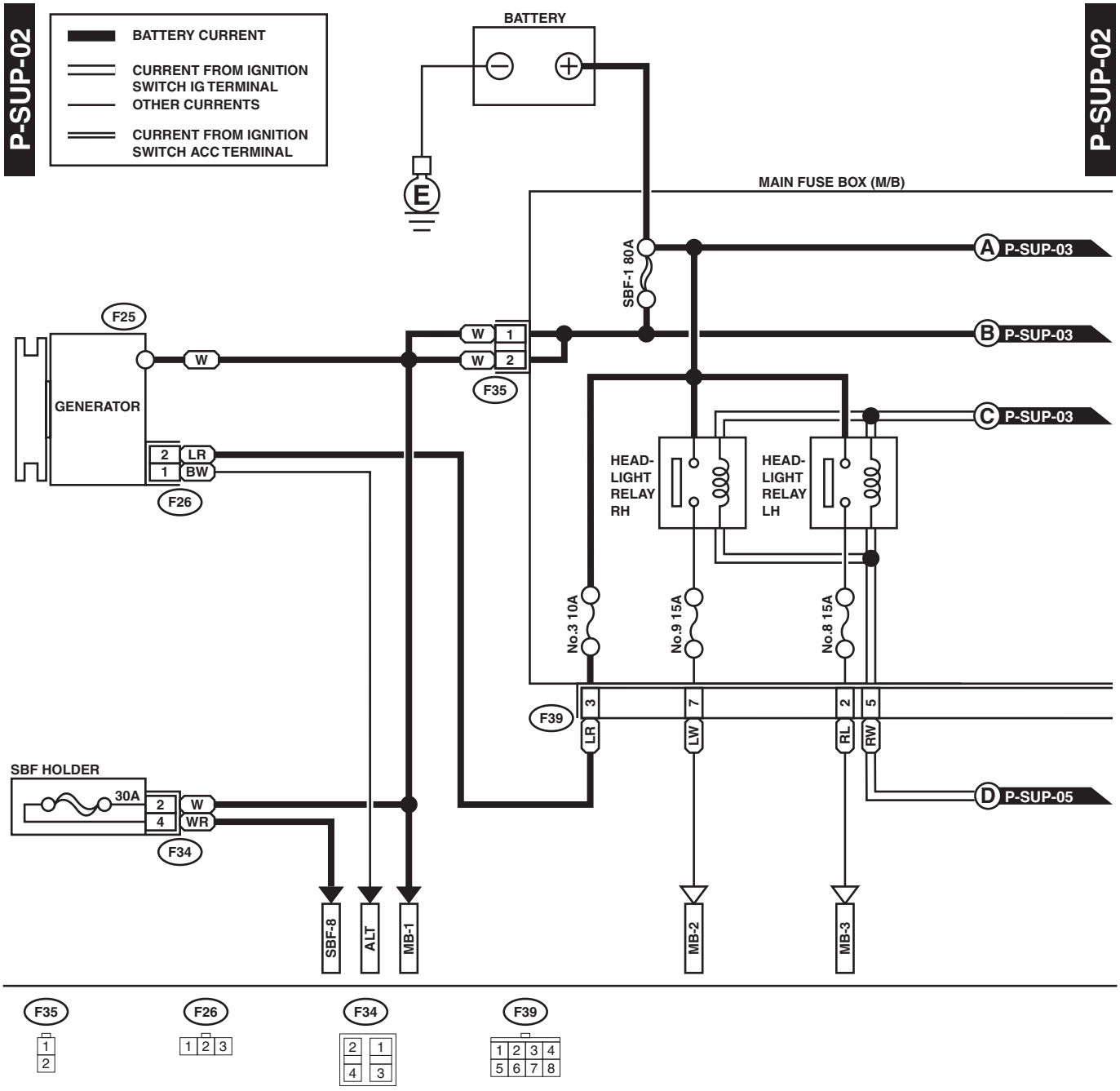
MAIN FUSE BOX (M/B)



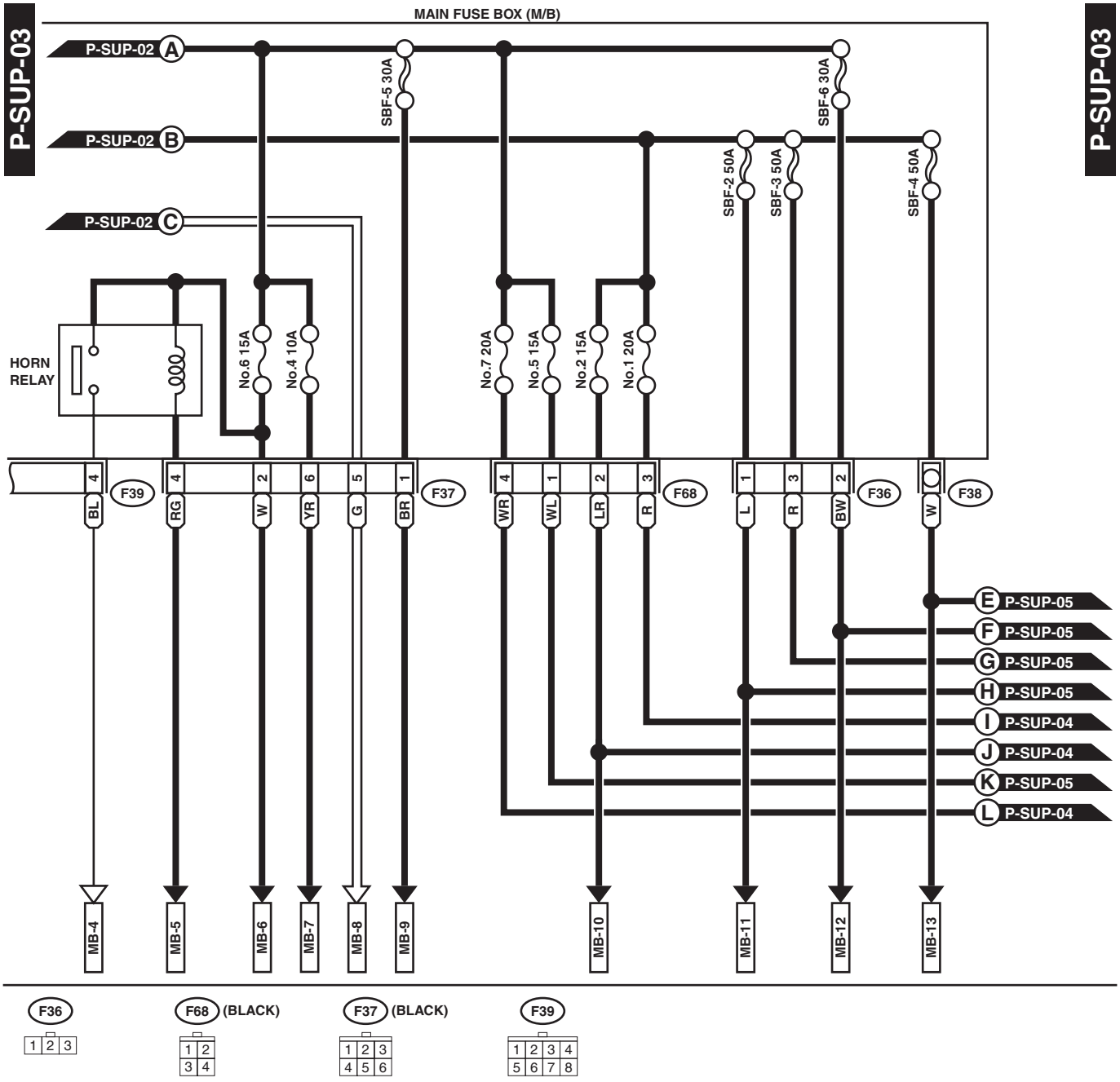
FUSE & RELAY BOX (F/B)



WI-02167

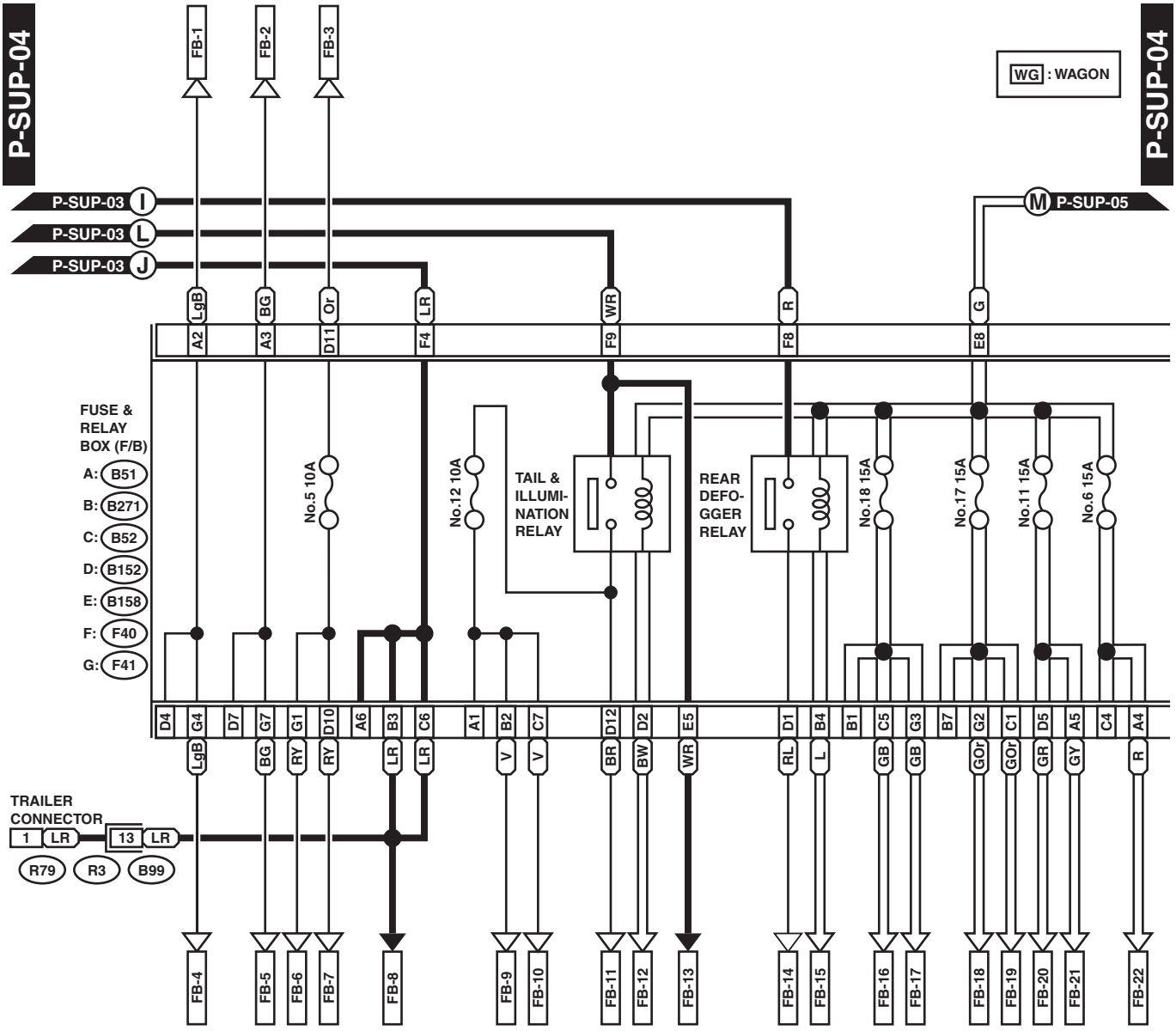

P-SUP-02
BATTERY CURRENT
CURRENT FROM IGNITION SWITCH IG TERMINAL
OTHER CURRENTS
CURRENT FROM IGNITION SWITCH ACC TERMINAL
BATTERY
E
MAIN FUSE BOX (M/B)
SBF-1 80A
A P-SUP-03
B P-SUP-03
C P-SUP-03
F25
W
GENERATOR
2 LR
1 BW
F26
W 1
W 2
F35
HEAD-LIGHT RELAY RH
HEAD-LIGHT RELAY LH
No.3 10A
No.9 15A
No.8 15A
F39
3 LR
7 LW
2 RL
5 RW
D P-SUP-05
SBF HOLDER
30A
2 W
4 WR
F34
SBF-8
ALT
MB-1
MB-2
MB-3
F35
F26
F34
F39

WI-01090

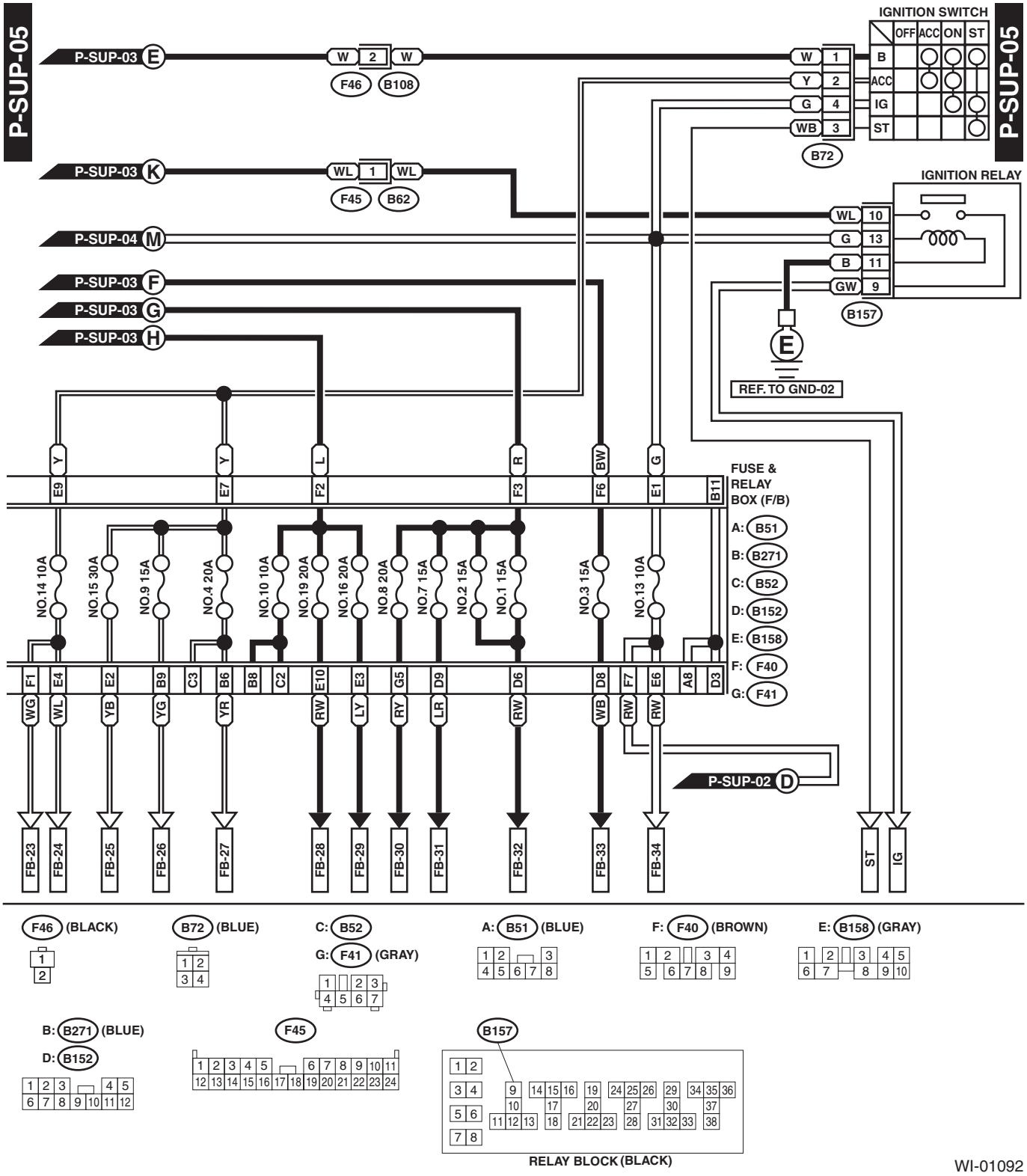

P-SUP-03
P-SUP-03
MAIN FUSE BOX (M/B)
P-SUP-02 A
P-SUP-02 B
P-SUP-02 C
SBF-5 30A
SBF-6 30A
SBF-2 50A
SBF-3 50A
SBF-4 50A
HORN RELAY
No.6 15A
No.4 10A
No.7 20A
No.5 15A
No.2 15A
No.1 20A
F39
F37
F68
F36
F38
BL
RG
W
YR
G
BR
WR
WL
LR
R
L
R
BW
W
E P-SUP-05
F P-SUP-05
G P-SUP-05
H P-SUP-05
I P-SUP-04
J P-SUP-04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

WI-02168

POWER SUPPLY ROUTING



WI-01091


P-SUP-05
P-SUP-05
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
P-SUP-03 E
P-SUP-03 K
P-SUP-04 M
P-SUP-03 F
P-SUP-03 G
P-SUP-03 H
W 2 W
F46 B108
WL 1 WL
F45 B62
W 1
Y 2
G 4
WB 3
B72
IGNITION RELAY
WL 10
G 13
B 11
GW 9
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: 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 RW LY RY LR RW WB RW RW
P-SUP-02 D
FB-23 FB-24 FB-25 FB-26 FB-27 FB-28 FB-29 FB-30 FB-31 FB-32 FB-33 FB-34 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 BLOCK (BLACK)

WI-01092

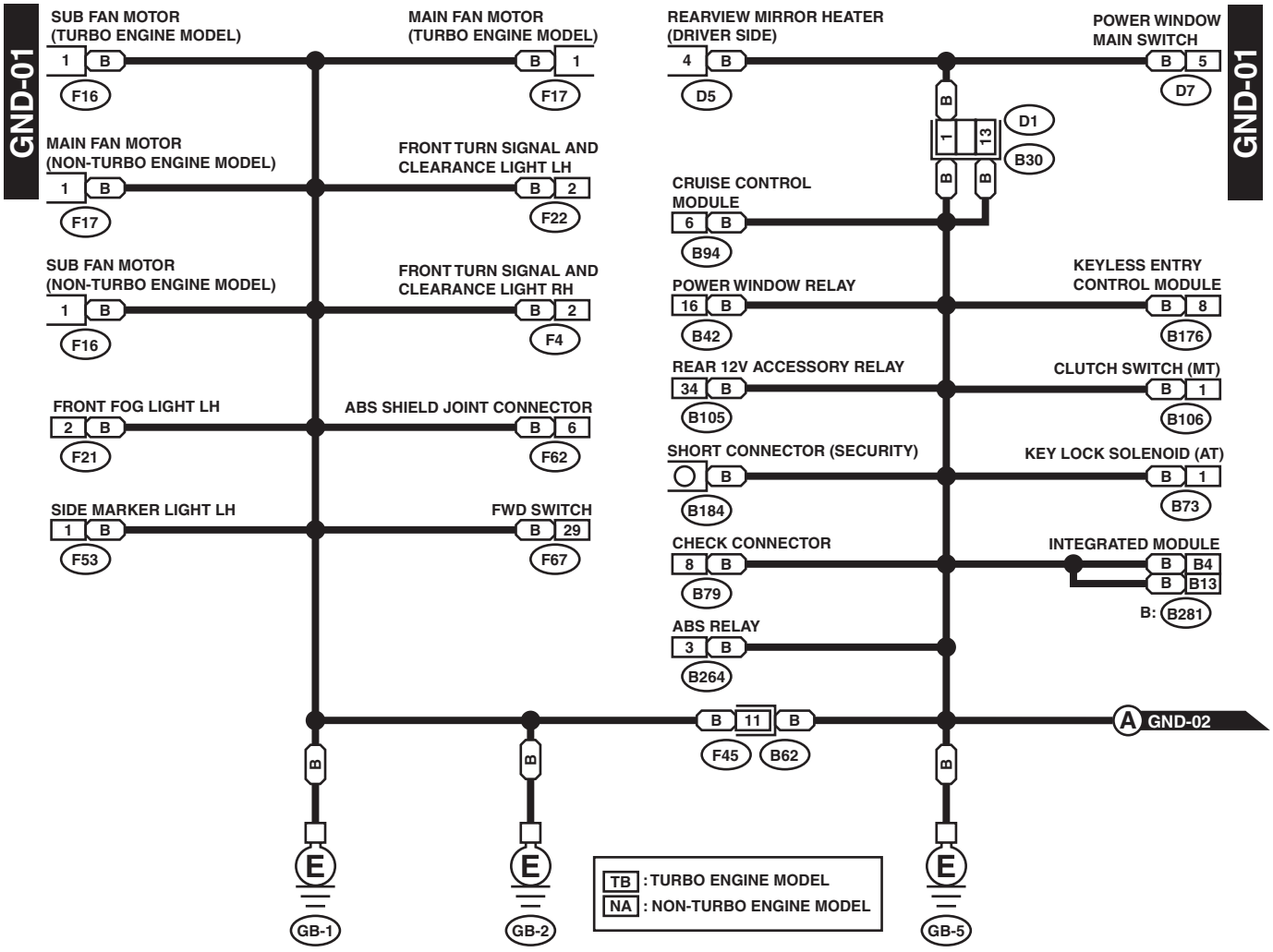
No.	Load
MB-1	Air conditioning relay holder (Fuse)
MB-2	Combination meter Headlight RH
MB-3	Headlight LH
MB-4	Horn
MB-5	Cruise control sub switch Horn switch Keyless entry control module Security horn relay
MB-6	Hazard switch Key warning switch
MB-7	Transmission control module
MB-8	Daytime running light control module Diode (Daytime running light)
MB-9	Data link connector Engine control module Fuel pump relay Main relay
MB-11	Fuse (Rear 12V accessory)
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 (AT) Interrupt relay
FB-1	Combination meter Hazard switch Rear turn signal light RH Trailer connector Turn signal switch
FB-2	Combination meter Hazard switch Rear turn signal light LH Trailer connector Turn signal switch
FB-3	Parking switch Security control module
FB-4	Front turn signal light RH
FB-5	Front turn signal light LH
FB-6	Front clearance light LH Front clearance light RH Side maker light LH
FB-7	License plate light Side maker light RH Tail light LH Tail light RH Trailer connector

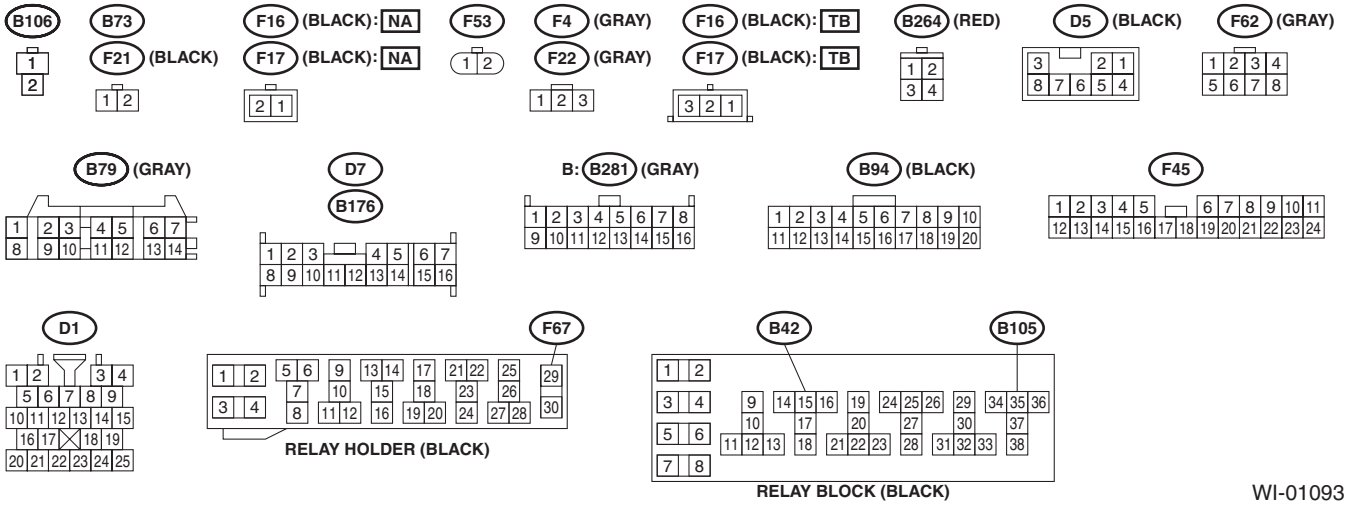
No.	Load
FB-8	Clock Combination meter Integrated module Key illumination light (Turbo engine model) Keyless entry control module Luggage room light (Wagon) Radio Room light Security control module Security horn relay Spot light Trunk room light (Sedan)
FB-9 FB-10	Clock Combination meter Illumination light Integrated module
FB-11	Parking switch
FB-12	Engine control module Lighting switch
FB-13	Parking switch Security control module
FB-14	Mirror heater relay Rear defogger Rear defogger switch
FB-15	Integrated module
FB-16	ABS relay Back-up light switch (MT) Check connector Cruise control main switch Cruise control module Daytime running light control module Daytime running light relay High-beam relay (Daytime running light) Inhibitor switch (AT) Keyless entry control module Vehicle speed sensor (MT)
FB-17	Main fan relay (Non-turbo engine model) Main fan relay-1 (Turbo engine model) Main fan relay-2 (Turbo engine model)
FB-18	Air conditioning relay Sub fan relay (Non-turbo engine model) Sub fan relay-1 (Turbo engine model) Sub fan relay-2 (Turbo engine model) Thermal protector
FB-19	Air conditioning switch Blower fan motor relay
FB-20	Engine control module Fuel pump relay Ignition coil No. 1 (Turbo engine model) Ignition coil No. 2 (Turbo engine model) Ignition coil No. 3 (Turbo engine model) Ignition coil No. 4 (Turbo engine model) Integrated module Transmission control module
FB-21	Airbag control module
FB-22	Airbag control module
FB-23	Rear washer motor

No.	Load
FB-24	Rear wiper intermittent module (Wagon) Rear wiper motor (Wagon)
FB-25	Combination switch Front washer motor Front wiper motor
FB-26	Clock Radio
FB-27	Compass mirror Front accessory power supply socket Integrated module Rear 12V accessory relay Remote controlled rearview mirror switch
FB-28	Mirror heater relay
FB-29	Stop light switch
FB-30	ABS control module
FB-31	Front fog light relay
FB-32	Blower fan motor relay
FB-33	Integrated module
FB-34	Combination meter

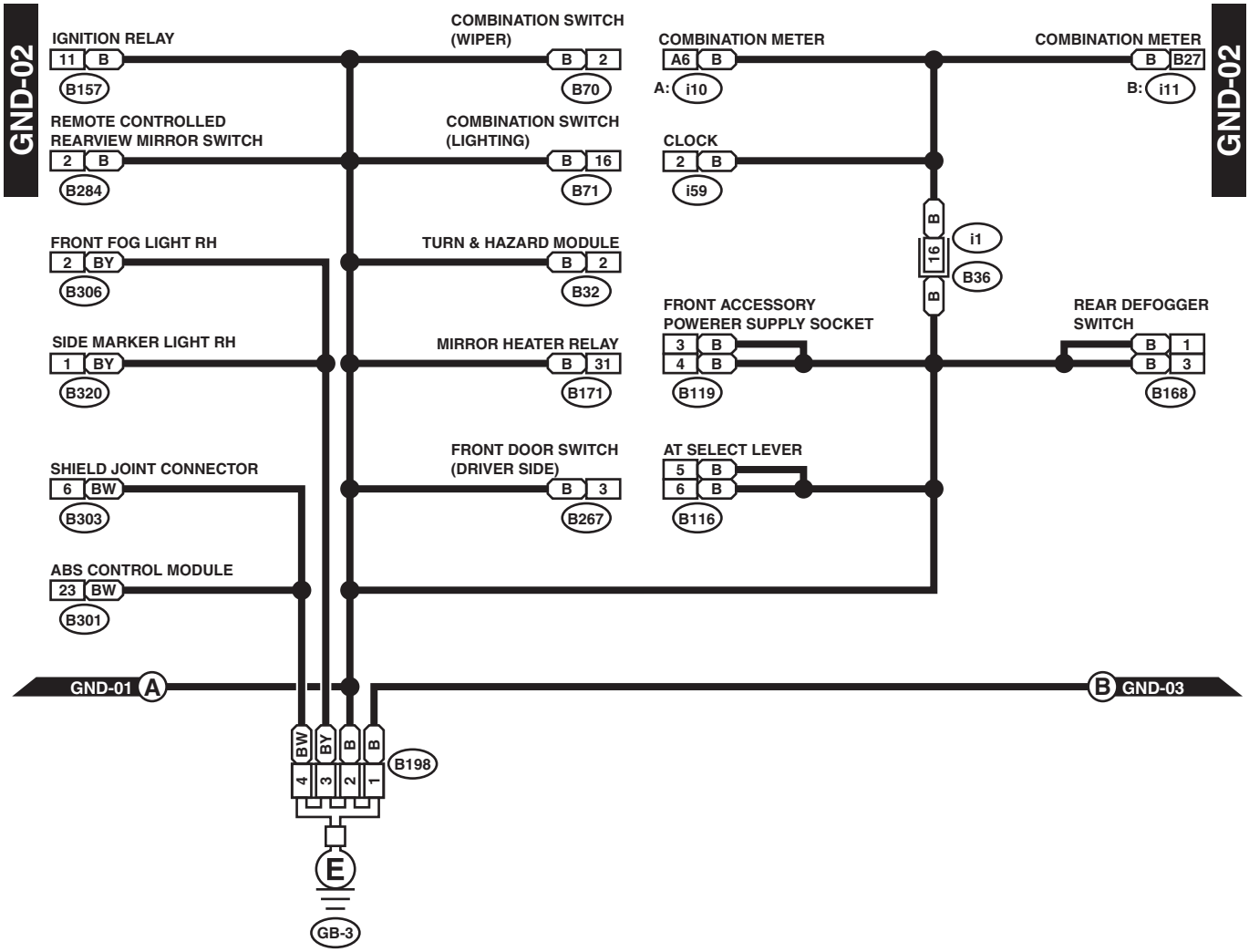
5. Ground Distribution

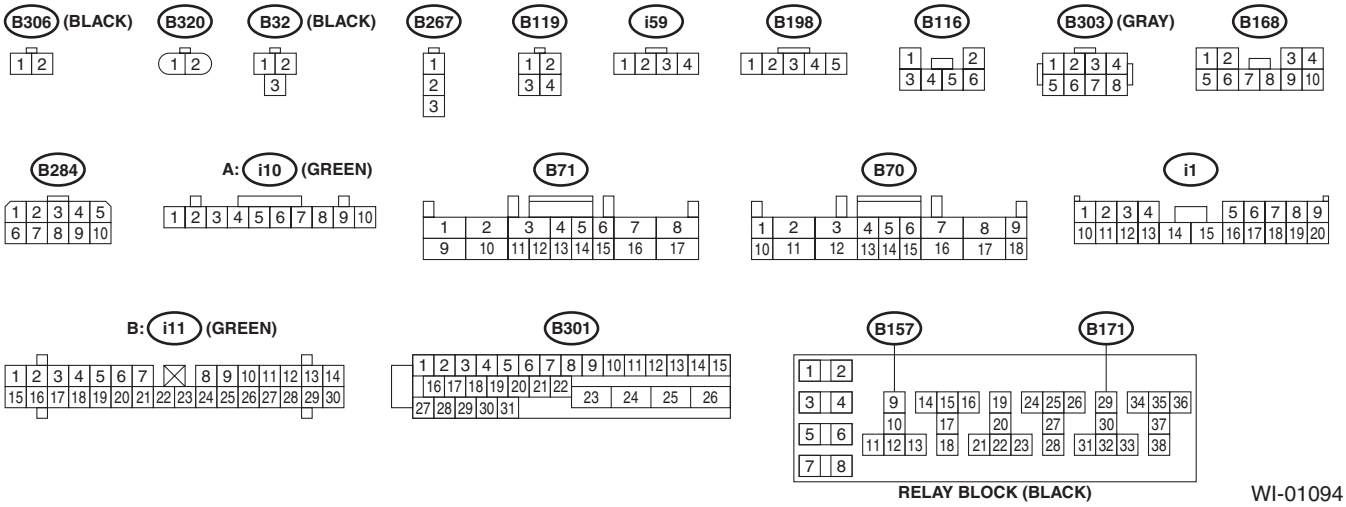
A: SCHEMATIC





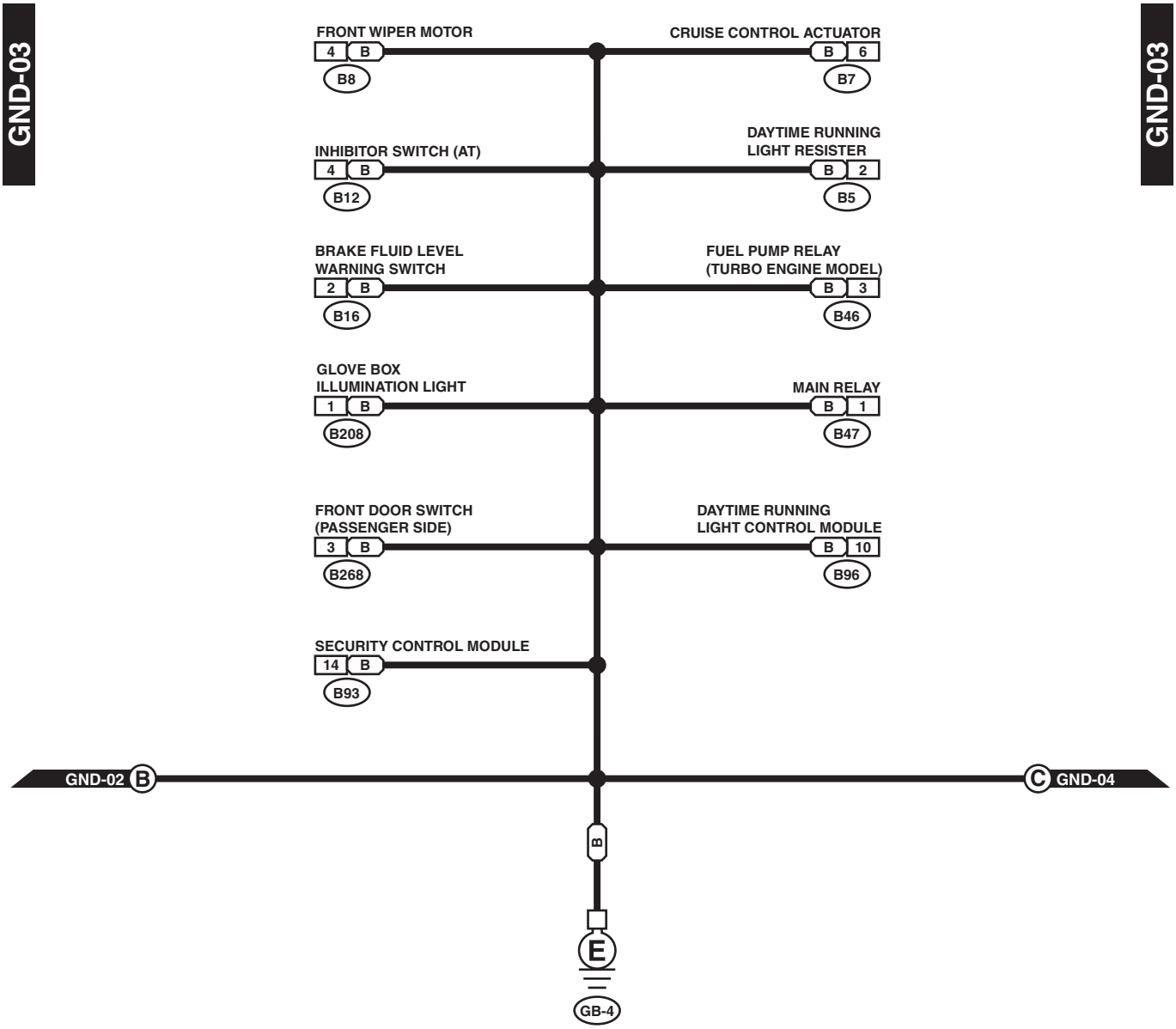
WI-01093

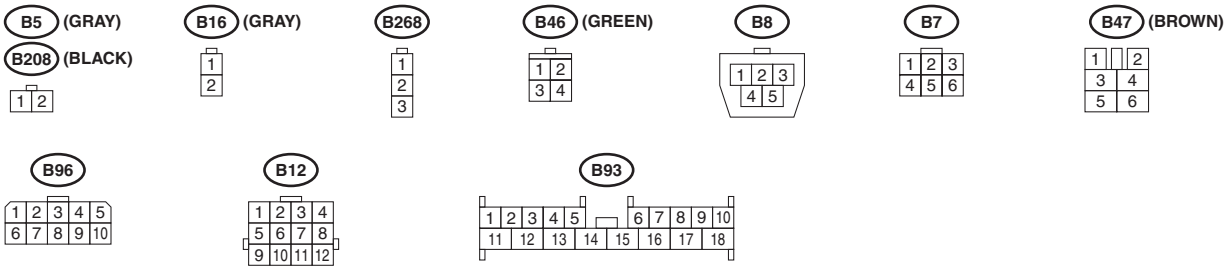

GND-02
IGNITION RELAY
11 B
B157
COMBINATION SWITCH (WIPER)
B 2
B70
COMBINATION METER
A6 B
A: i10
COMBINATION METER
B B27
B: i11
GND-02
REMOTE CONTROLLED REARVIEW MIRROR SWITCH
2 B
B284
COMBINATION SWITCH (LIGHTING)
B 16
B71
CLOCK
2 B
i59
B
16
B
i1
B36
FRONT FOG LIGHT RH
2 BY
B306
TURN & HAZARD MODULE
B 2
B32
FRONT ACCESSORY POWERER SUPPLY SOCKET
3 B
4 B
B119
REAR DEFOGGER SWITCH
B 1
B 3
B168
SIDE MARKER LIGHT RH
1 BY
B320
MIRROR HEATER RELAY
B 31
B171
SHIELD JOINT CONNECTOR
6 BW
B303
FRONT DOOR SWITCH (DRIVER SIDE)
B 3
B267
AT SELECT LEVER
5 B
6 B
B116
ABS CONTROL MODULE
23 BW
B301
GND-01 A
B GND-03
BW
BY
B
B
4
3
2
1
B198
E
GB-3


B306 (BLACK)
B320
B32 (BLACK)
B267
B119
i59
B198
B116
B303 (GRAY)
B168
B284
A: i10 (GREEN)
B71
B70
i1
B: i11 (GREEN)
B301
B157
B171
RELAY BLOCK (BLACK)

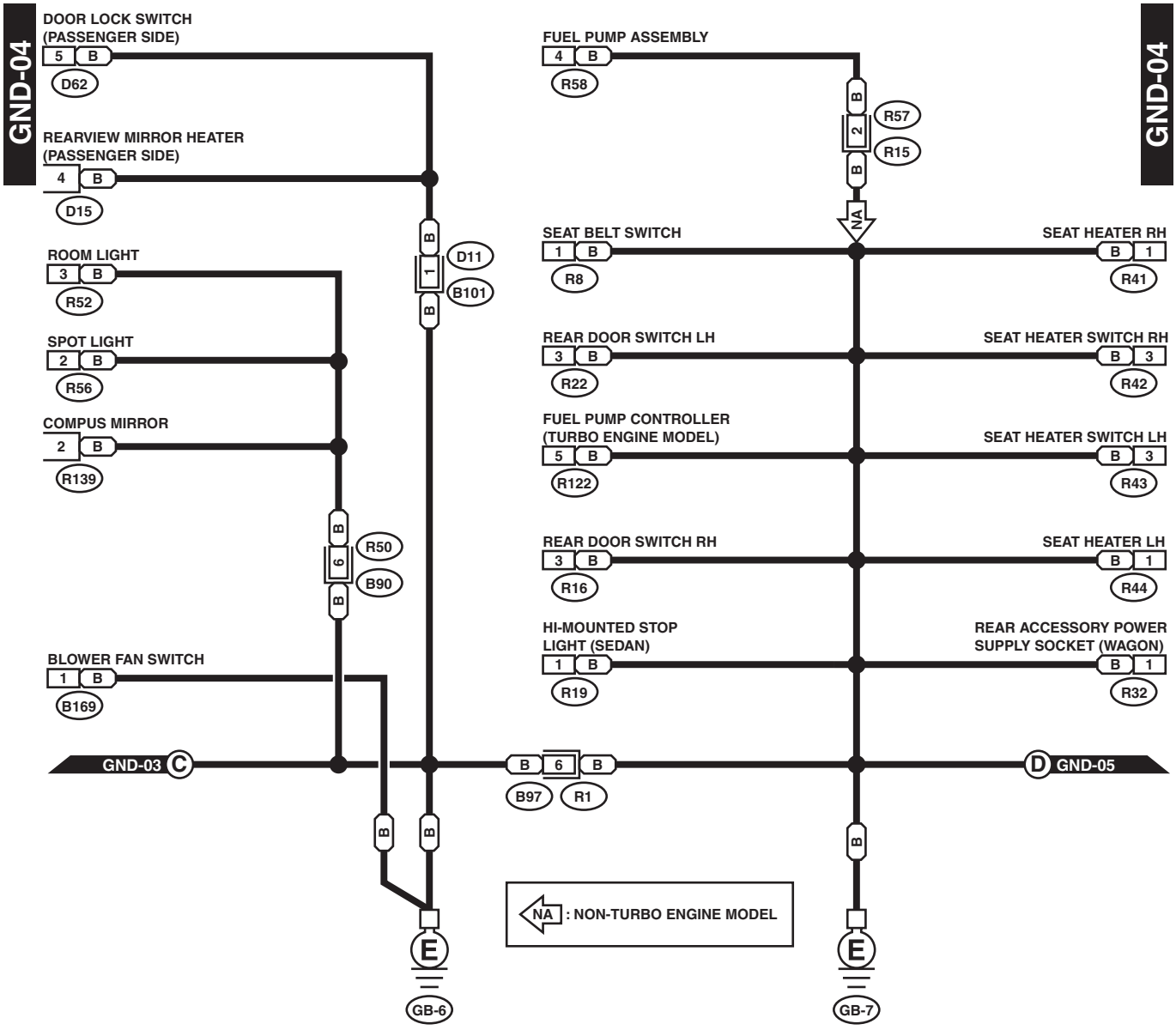
WI-01094

GROUND DISTRIBUTION



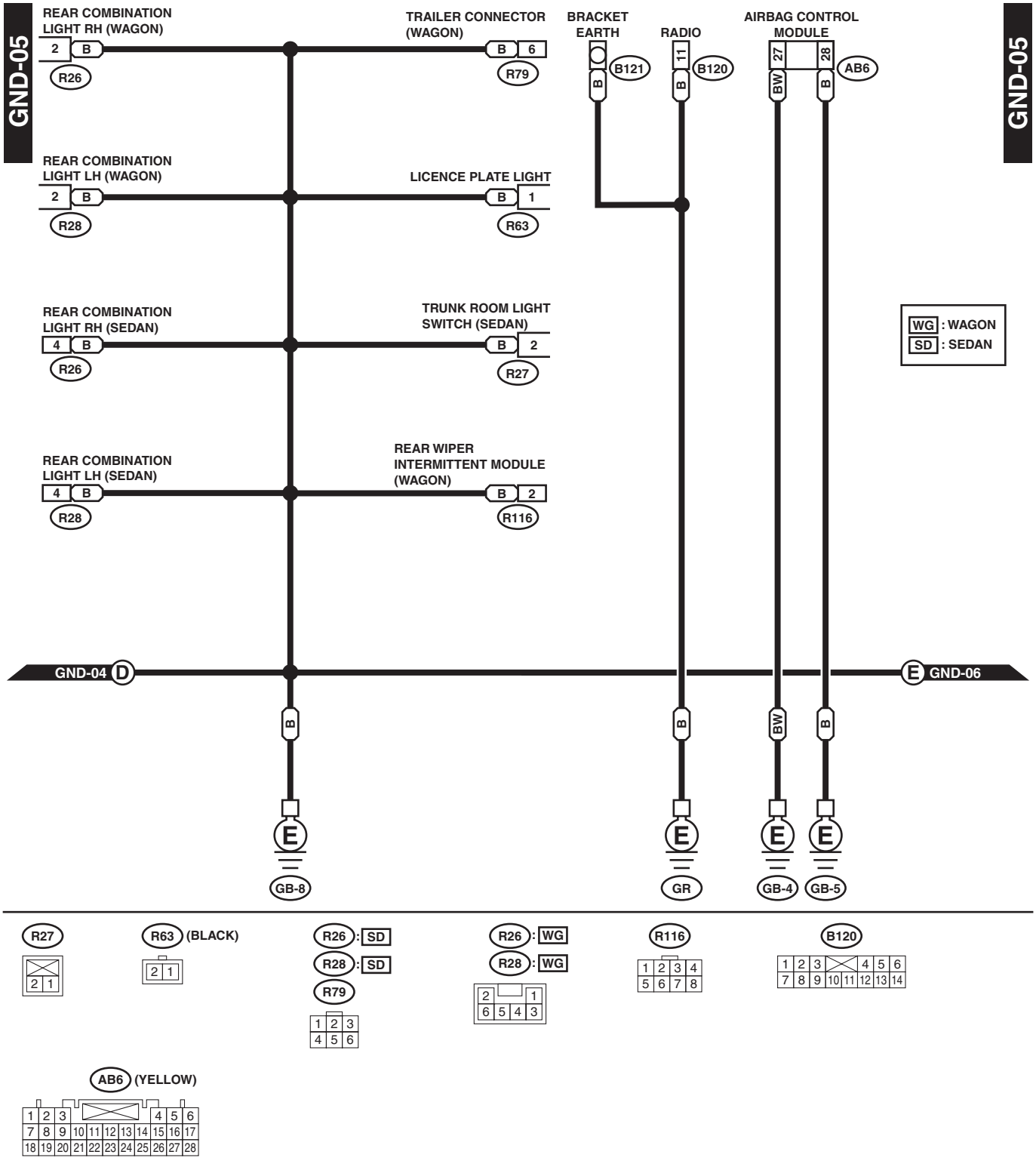


WI-01095

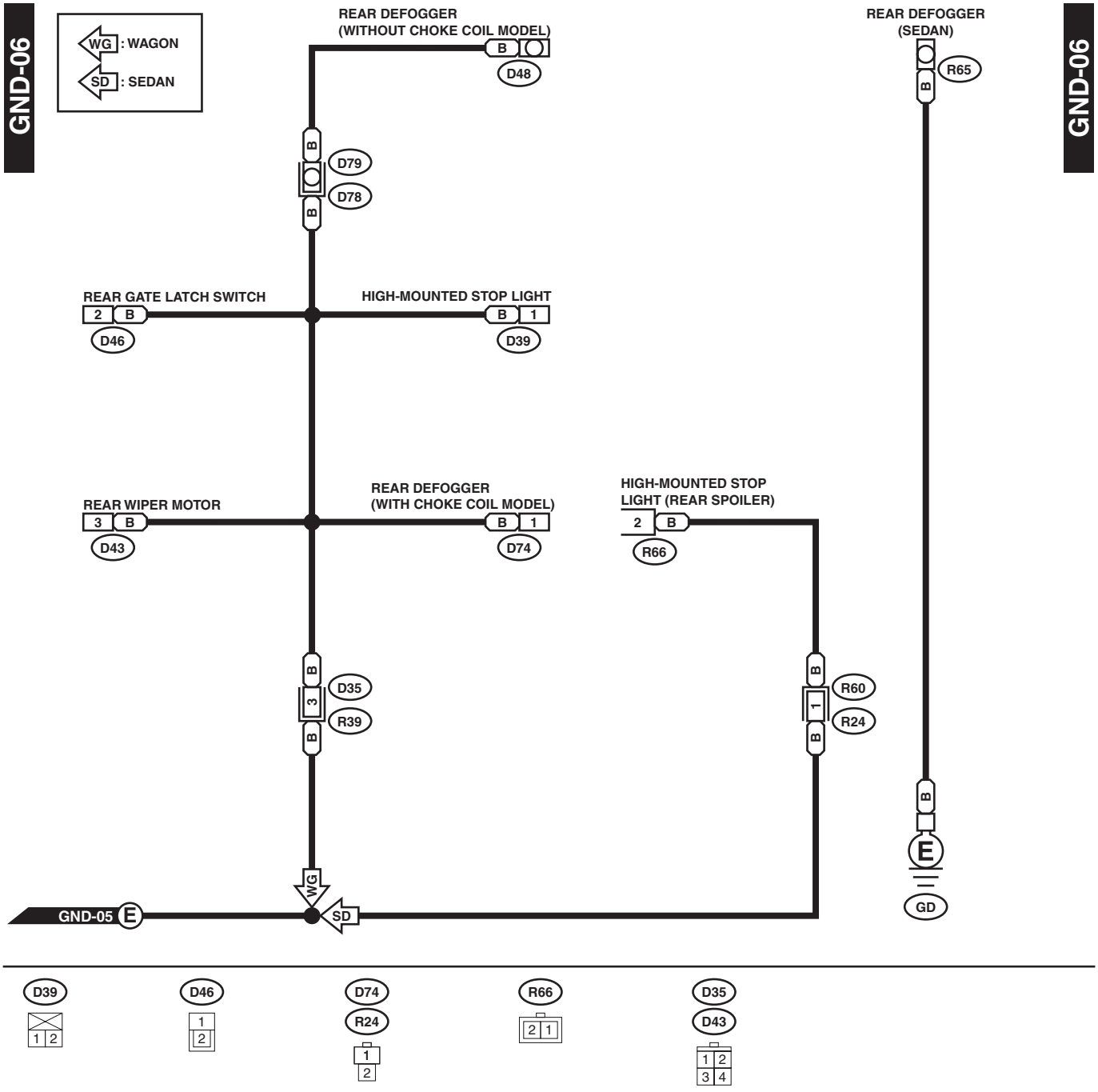

GND-04
DOOR LOCK SWITCH (PASSENGER SIDE)
5 B
D62
REARVIEW MIRROR HEATER (PASSENGER SIDE)
4 B
D15
ROOM LIGHT
3 B
R52
SPOT LIGHT
2 B
R56
COMPUS MIRROR
2 B
R139
BLOWER FAN SWITCH
1 B
B169
B 1 D11
B 1 B101
B 6 B
R50
B90
FUEL PUMP ASSEMBLY
4 B
R58
B 2 R57
R15
NA
SEAT BELT SWITCH
1 B
R8
REAR DOOR SWITCH LH
3 B
R22
FUEL PUMP CONTROLLER (TURBO ENGINE MODEL)
5 B
R122
REAR DOOR SWITCH RH
3 B
R16
HI-MOUNTED STOP LIGHT (SEDAN)
1 B
R19
SEAT HEATER RH
B 1
R41
SEAT HEATER SWITCH RH
B 3
R42
SEAT HEATER SWITCH LH
B 3
R43
SEAT HEATER LH
B 1
R44
REAR ACCESSORY POWER SUPPLY SOCKET (WAGON)
B 1
R32
GND-03 C
B 6 B
B97 R1
D GND-05
NA : NON-TURBO ENGINE MODEL
E
GB-6
E
GB-7
R8
R19
R32
R56
R16
R22
R52
R139
R42
R41 (BLUE)
R43 (BLUE)
R44 (BLUE)
D62
B169
R50
R58
B97
D15 (BLACK)
R122
R57
D11

WI-01096

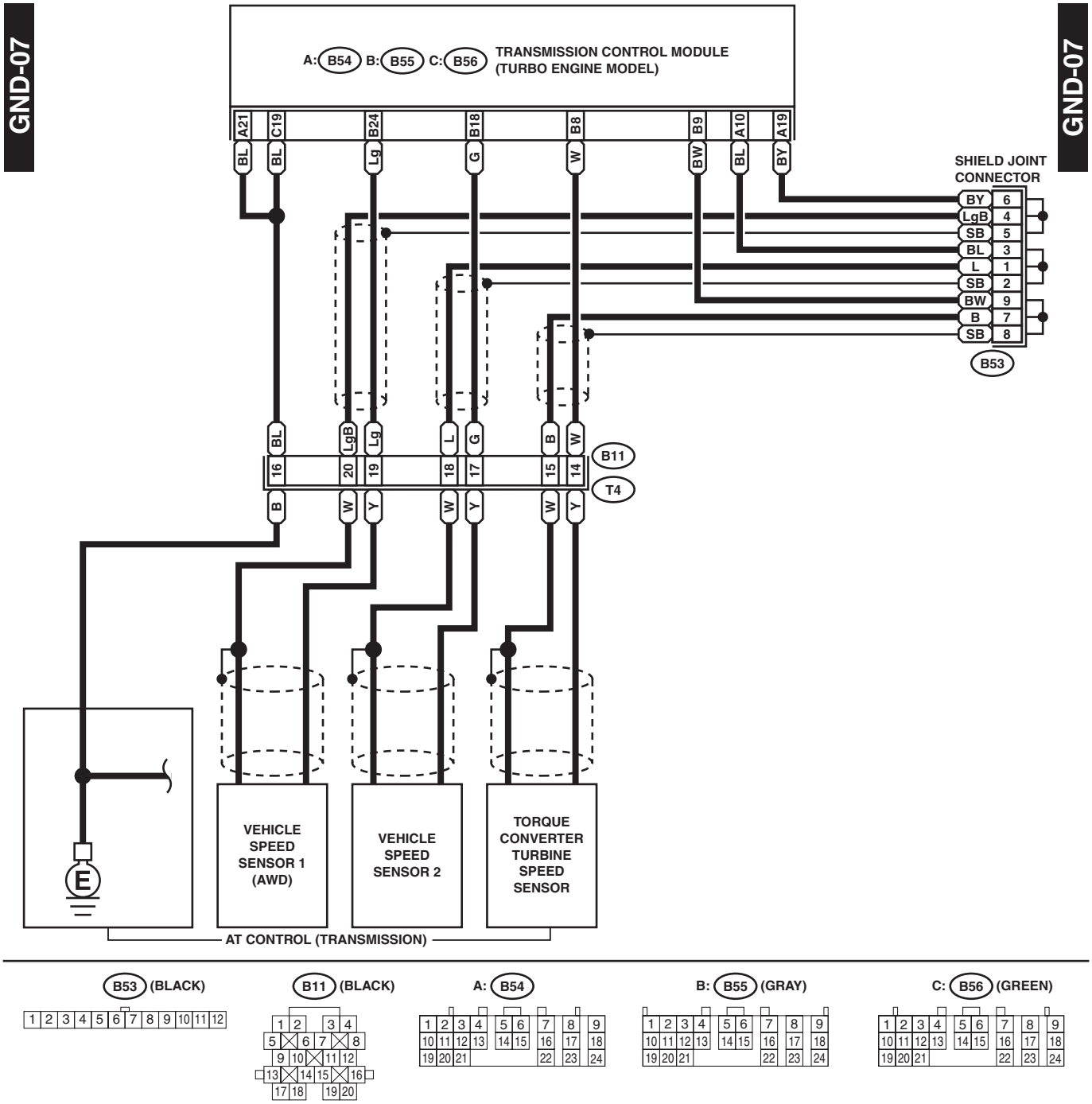
GROUND DISTRIBUTION



WI-01097

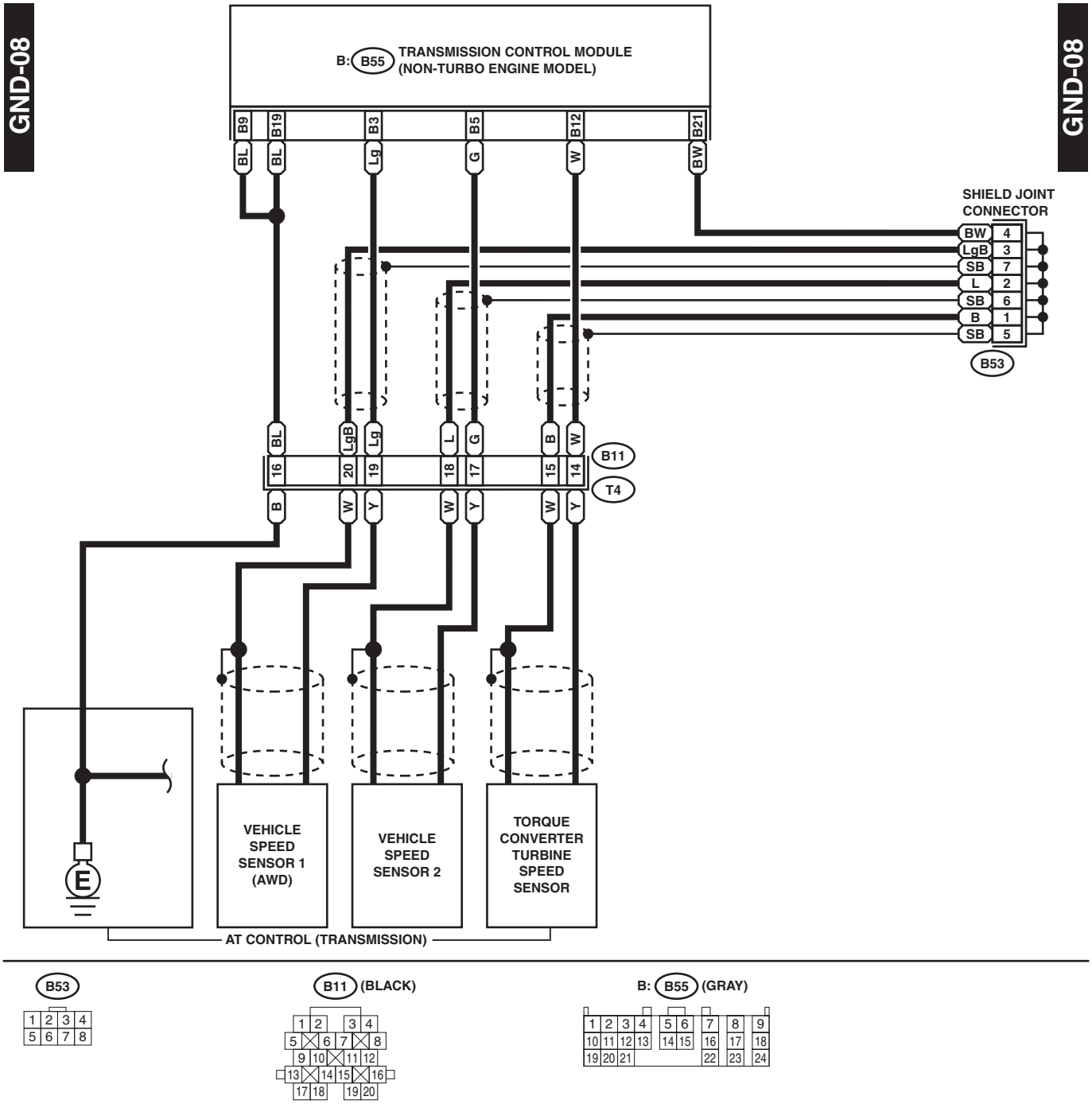

GND-06
WG : WAGON
SD : SEDAN
REAR DEFOGGER (WITHOUT CHOKE COIL MODEL)
B
D48
B
D79
D78
B
REAR GATE LATCH SWITCH
2
B
D46
HIGH-MOUNTED STOP LIGHT
B
1
D39
REAR WIPER MOTOR
3
B
D43
REAR DEFOGGER (WITH CHOKE COIL MODEL)
B
1
D74
HIGH-MOUNTED STOP LIGHT (REAR SPOILER)
2
B
R66
B
3
D35
R39
B
B
1
R60
R24
B
WG
GND-05
E
SD
REAR DEFOGGER (SEDAN)
R65
B
B
E
GD
GND-06
D39
1 2
D46
1
2
D74
R24
1
2
R66
2 1
D35
D43
1 2
3 4

WI-01098

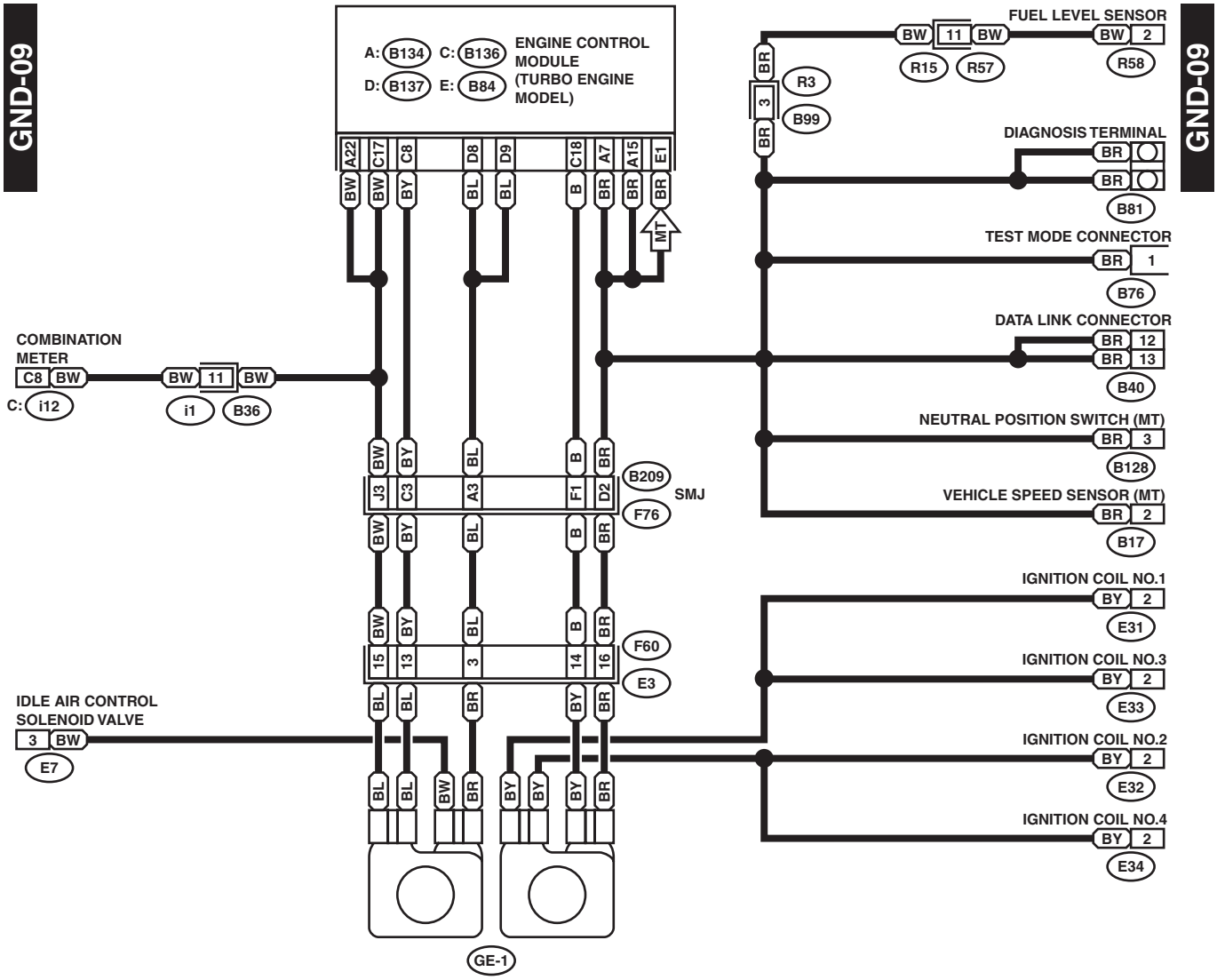

GND-07
GND-07
A: B54 B: B55 C: B56
TRANSMISSION CONTROL MODULE
(TURBO ENGINE MODEL)
A21 C19 B24 B18 B8 B9 A10 A19
BL BL Lg G W BW BL BY
SHIELD JOINT
CONNECTOR
BY 6
LgB 4
SB 5
BL 3
L 1
SB 2
BW 9
B 7
SB 8
B53
BL LgB Lg L G B W
16 20 19 18 17 15 14
B11
T4
B W Y W Y W Y
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)

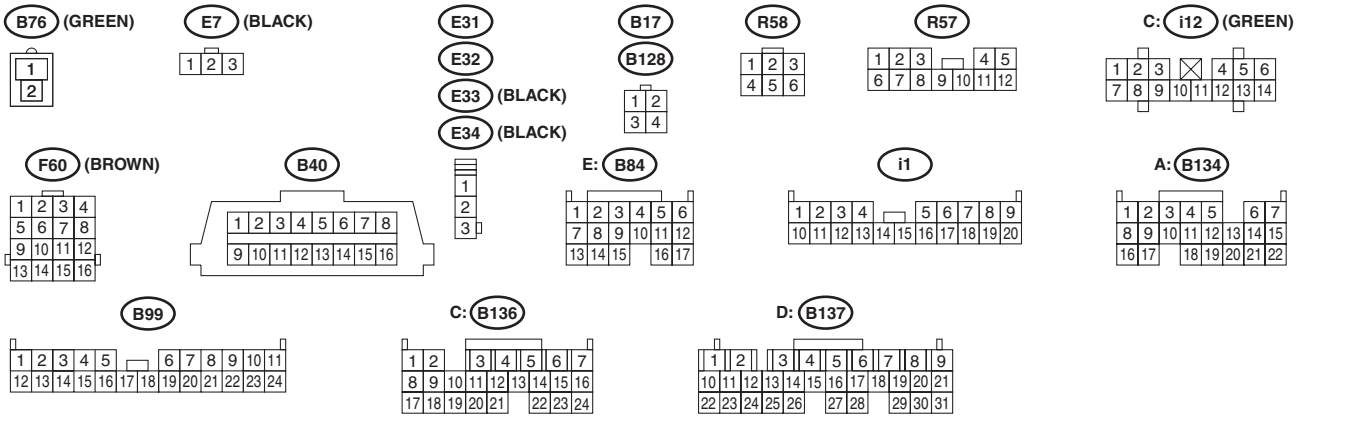
B53 (BLACK)
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

WI-01099

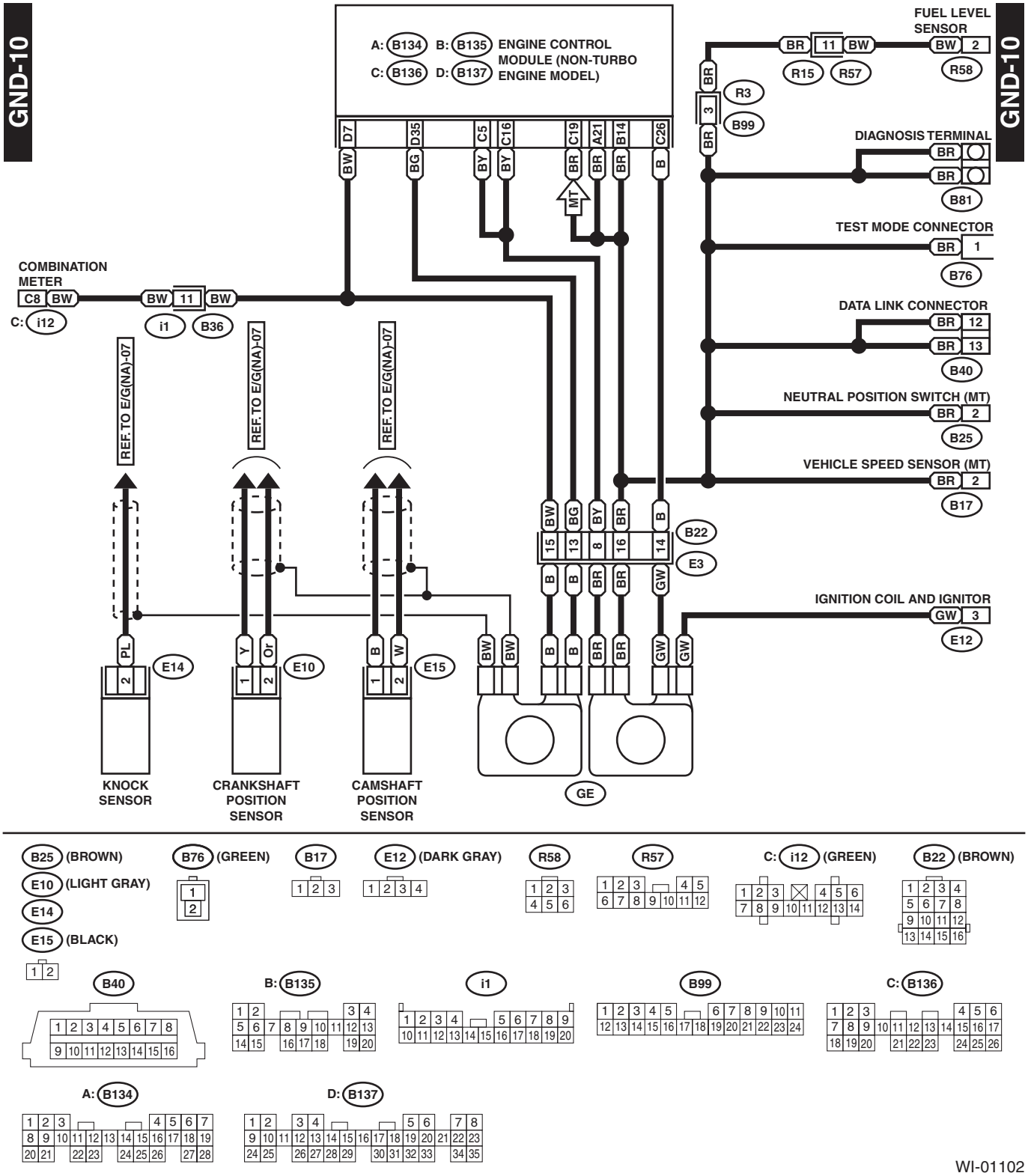

GND-08
GND-08
B: B55 TRANSMISSION CONTROL MODULE (NON-TURBO ENGINE MODEL)
B9 B19 B3 B5 B12 B21
BL BL Lg G W BW
SHIELD JOINT CONNECTOR
BW 4
LgB 3
SB 7
L 2
SB 6
B 1
SB 5
B53
BL LgB Lg L G B W
16 20 19 18 17 15 14
B11
T4
B W Y W Y W Y
E
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT CONTROL (TRANSMISSION)
B53
1 2 3 4
5 6 7 8
B11 (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

WI-01100


GND-09
GND-09
A: B134 C: B136
D: B137 E: B84
ENGINE CONTROL MODULE (TURBO ENGINE MODEL)
A22 C17 C8 D8 D9 C18 A7 A15 E1
BW BW BY BL BL B BR BR BR
MT
FUEL LEVEL SENSOR
BW 11 BW
BW 2
R15 R57
R58
BR
R3
3
B99
BR
DIAGNOSIS TERMINAL
BR
BR
B81
TEST MODE CONNECTOR
BR 1
B76
DATA LINK CONNECTOR
BR 12
BR 13
B40
NEUTRAL POSITION SWITCH (MT)
BR 3
B128
VEHICLE SPEED SENSOR (MT)
BR 2
B17
COMBINATION METER
C8 BW
C: i12
BW 11 BW
i1 B36
BW BY BL B BR
J3 C3 A3 F1 D2
B209
SMJ
F76
BW BY BL B BR
BW BY BL B BR
15 13 3 14 16
F60
E3
IGNITION COIL NO.1
BY 2
E31
IGNITION COIL NO.3
BY 2
E33
IGNITION COIL NO.2
BY 2
E32
IGNITION COIL NO.4
BY 2
E34
IDLE AIR CONTROL SOLENOID VALVE
3 BW
E7
BL BL BR BY BR
BL BL BW BR BY BY BY BR
GE-1


B76 (GREEN)
E7 (BLACK)
E31
E32
E33 (BLACK)
E34 (BLACK)
B17
B128
R58
R57
C: i12 (GREEN)
F60 (BROWN)
B40
E: B84
i1
A: B134
B99
C: B136
D: B137

WI-01101

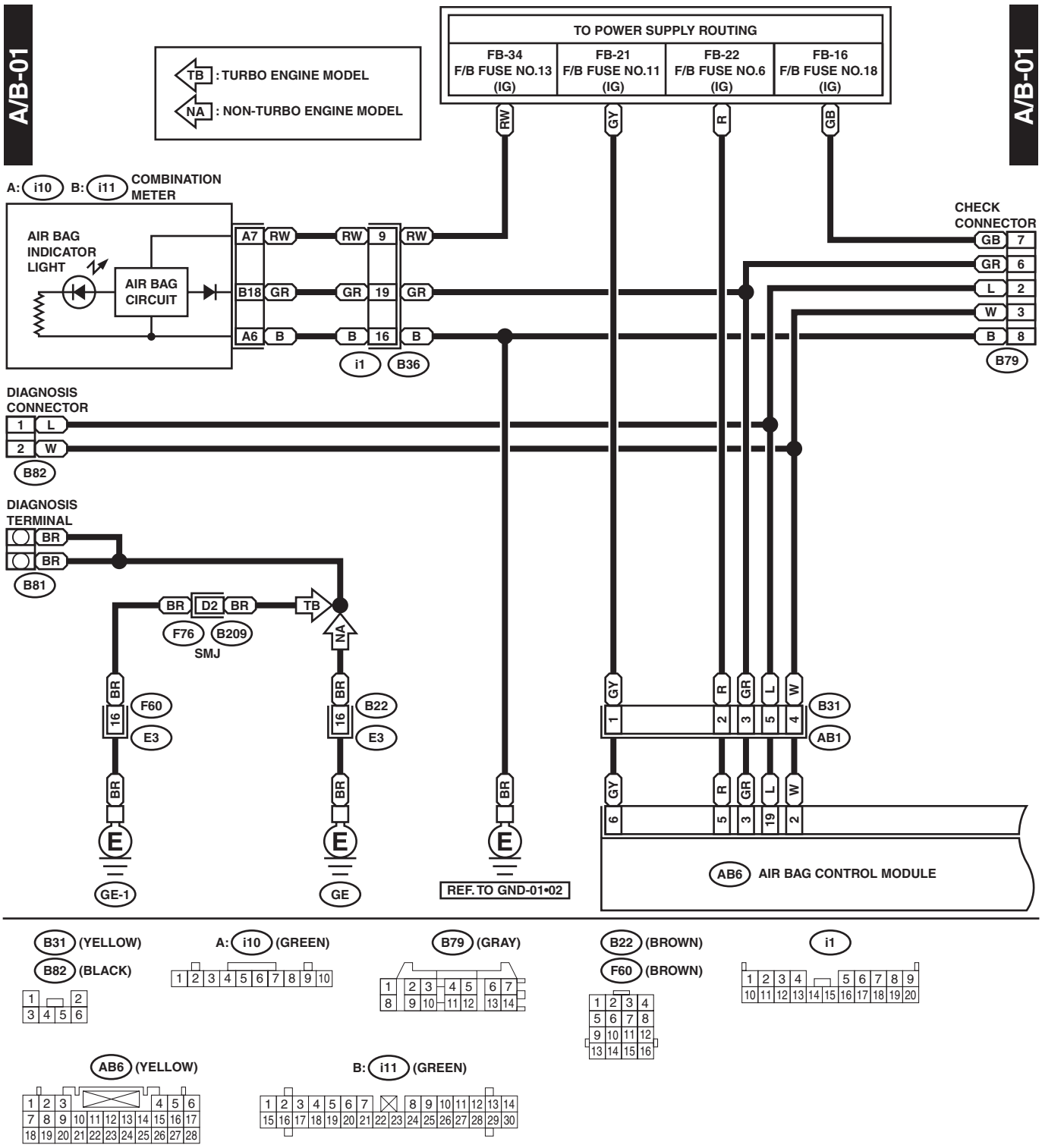

GND-10
GND-10
A: B134 B: B135 ENGINE CONTROL MODULE (NON-TURBO ENGINE MODEL)
C: B136 D: B137
D7 D35 C5 C16 C19 A21 B14 C26
BW BG BY BY BR BR BR B
MT
FUEL LEVEL SENSOR
BR 11 BW
BW 2
R15 R57
R58
BR
3
R3
B99
DIAGNOSIS TERMINAL
BR
BR
B81
TEST MODE CONNECTOR
BR 1
B76
DATA LINK CONNECTOR
BR 12
BR 13
B40
NEUTRAL POSITION SWITCH (MT)
BR 2
B25
VEHICLE SPEED SENSOR (MT)
BR 2
B17
COMBINATION METER
C8 BW
BW 11 BW
C: i12
i1
B36
REF. TO E/G(NA)-07
REF. TO E/G(NA)-07
REF. TO E/G(NA)-07
BW BG BY BR B
15 13 8 16 14
B22
E3
B B BR BR GW
IGNITION COIL AND IGNITOR
GW 3
E12
PL
Y Or
B W
BW BW
B B BR BR GW GW
2
E14
1 2
E10
1 2
E15
KNOCK SENSOR
CRANKSHAFT POSITION SENSOR
CAMSHAFT POSITION SENSOR
GE

B25 (BROWN)
E10 (LIGHT GRAY)
E14
E15 (BLACK)
B76 (GREEN)
B17
E12 (DARK GRAY)
R58
R57
C: i12 (GREEN)
B22 (BROWN)
B40
B: B135
i1
B99
C: B136
A: B134
D: B137

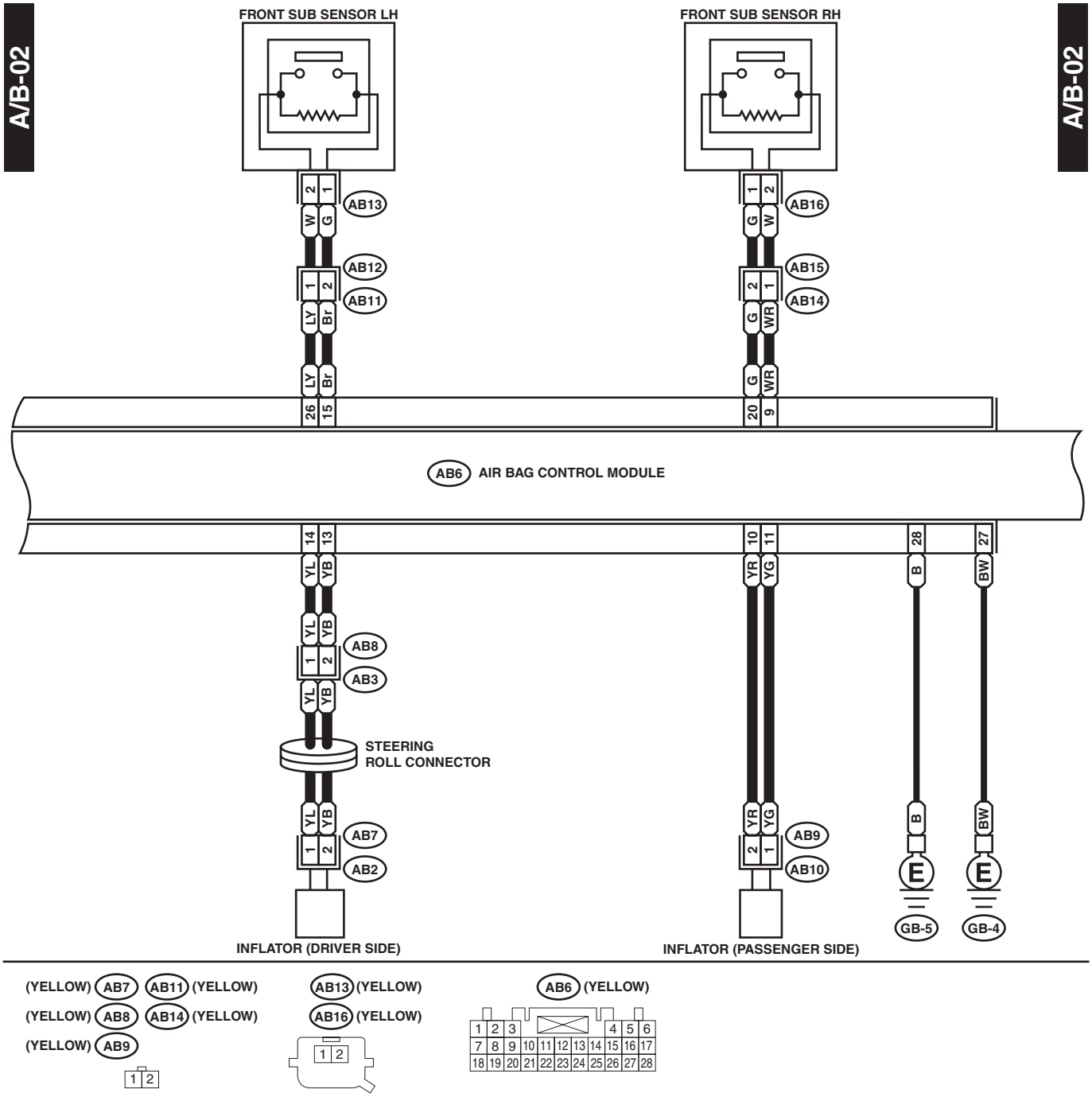
WI-01102

6. Airbag System

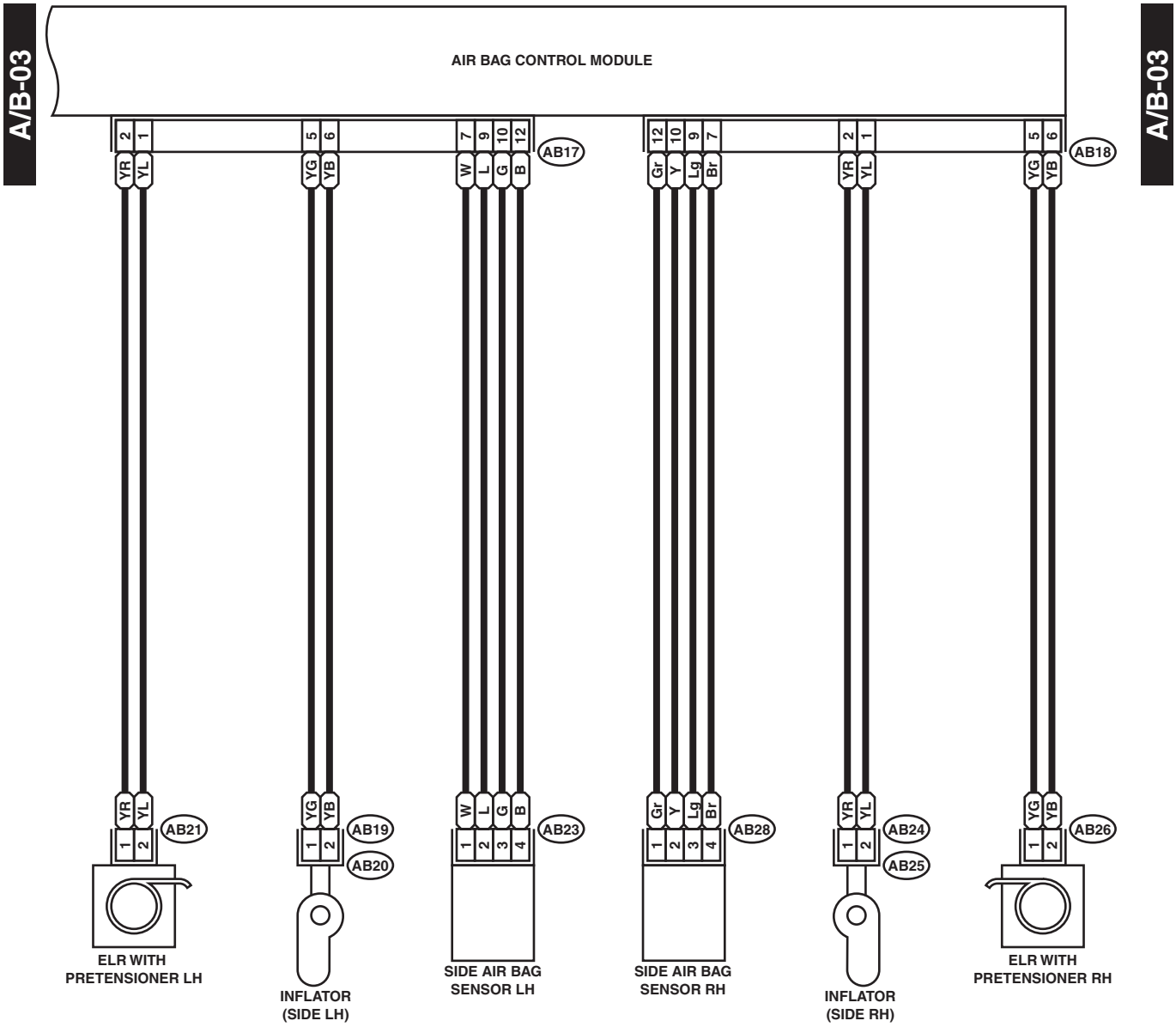
A: SCHEMATIC



WI-01103


A/B-02
A/B-02
FRONT SUB SENSOR LH
FRONT SUB SENSOR RH
AB13
AB12
AB11
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 AB11 (YELLOW)
(YELLOW) AB8 AB14 (YELLOW)
(YELLOW) AB9
AB13 (YELLOW)
AB16 (YELLOW)
AB6 (YELLOW)

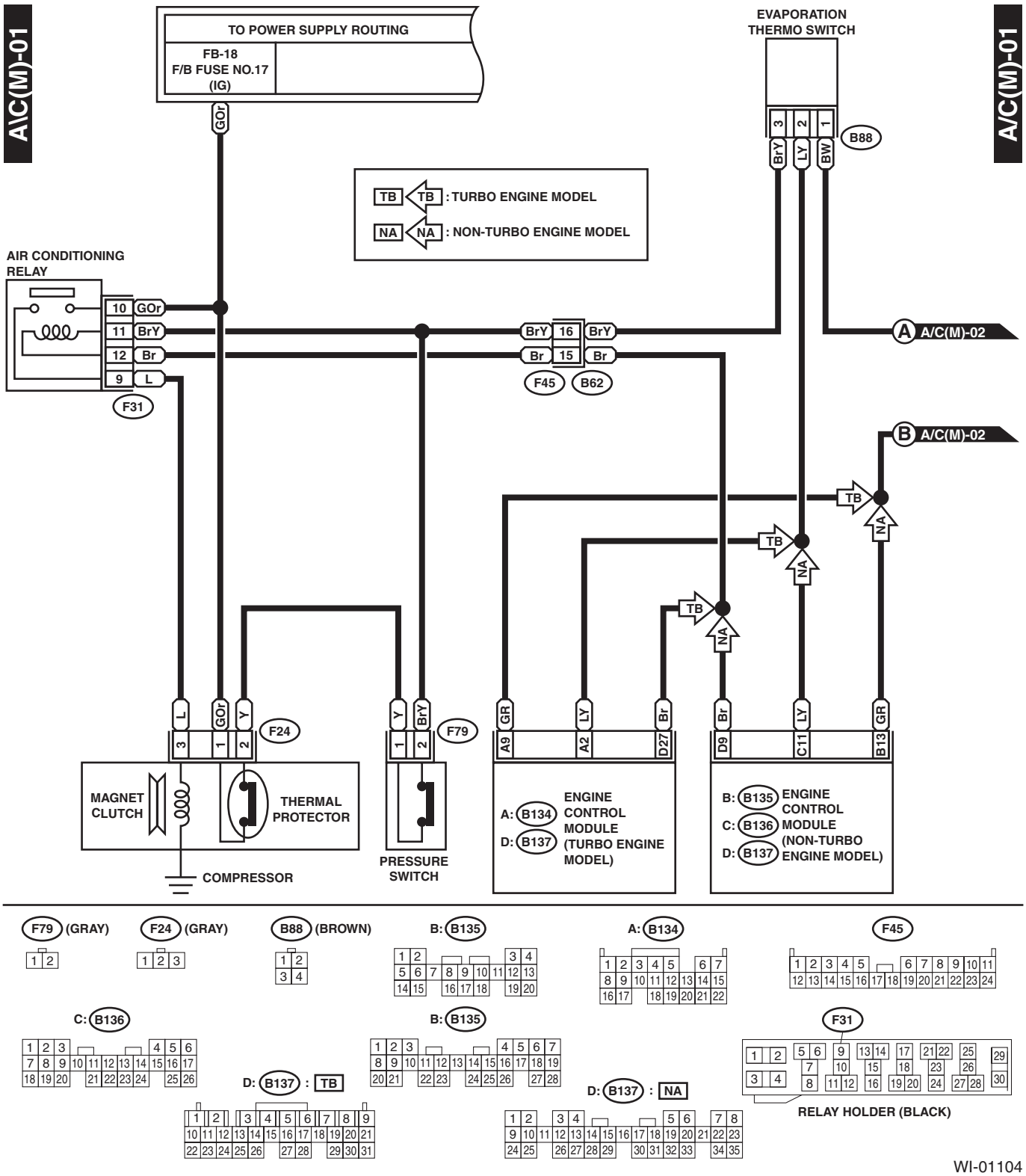
WI-02169


A/B-03
AIR BAG CONTROL MODULE
A/B-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 Gr Y Lg Br YR YL YG YB
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)

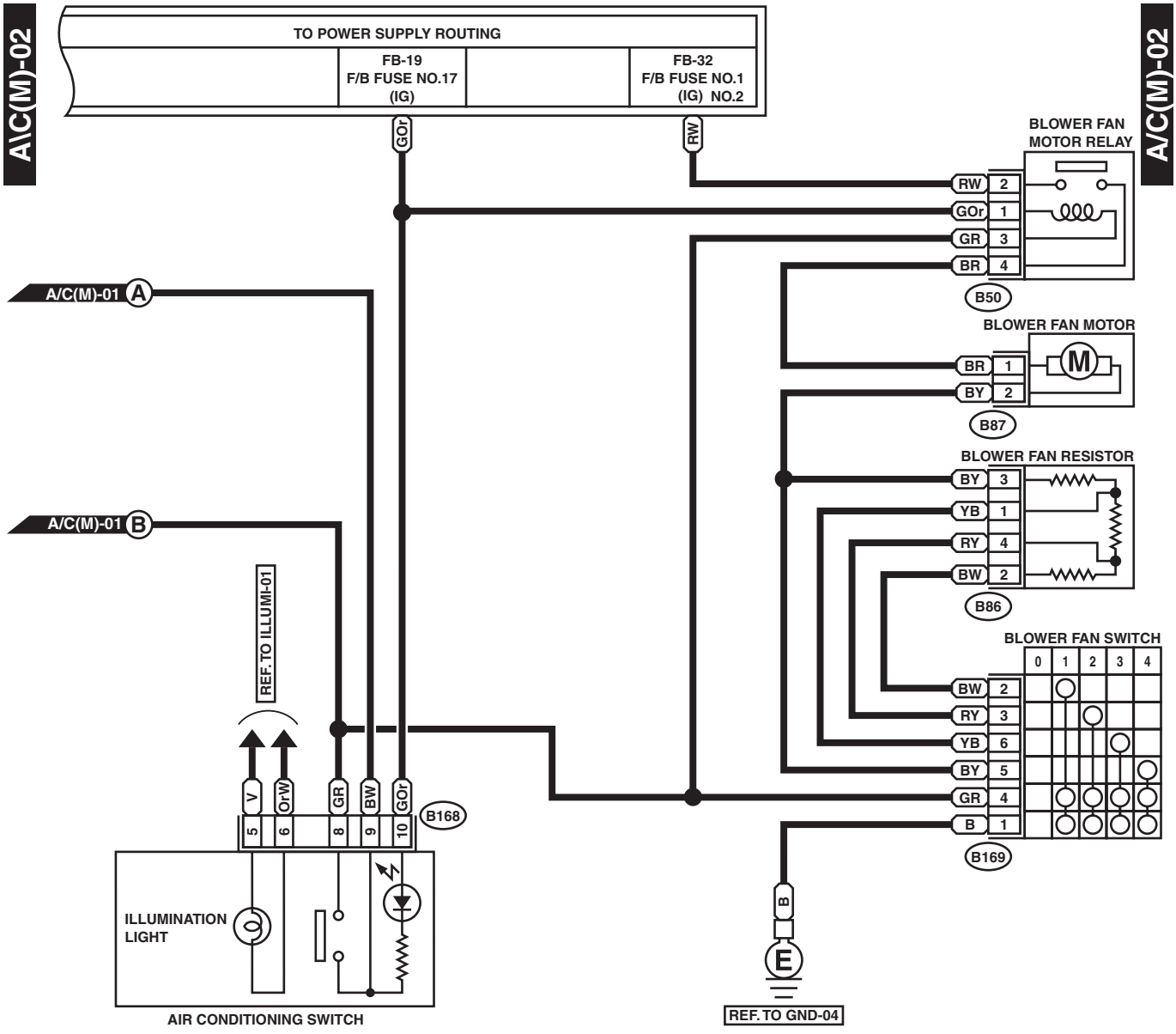
WI-02170

7. Air Conditioning System

A: SCHEMATIC



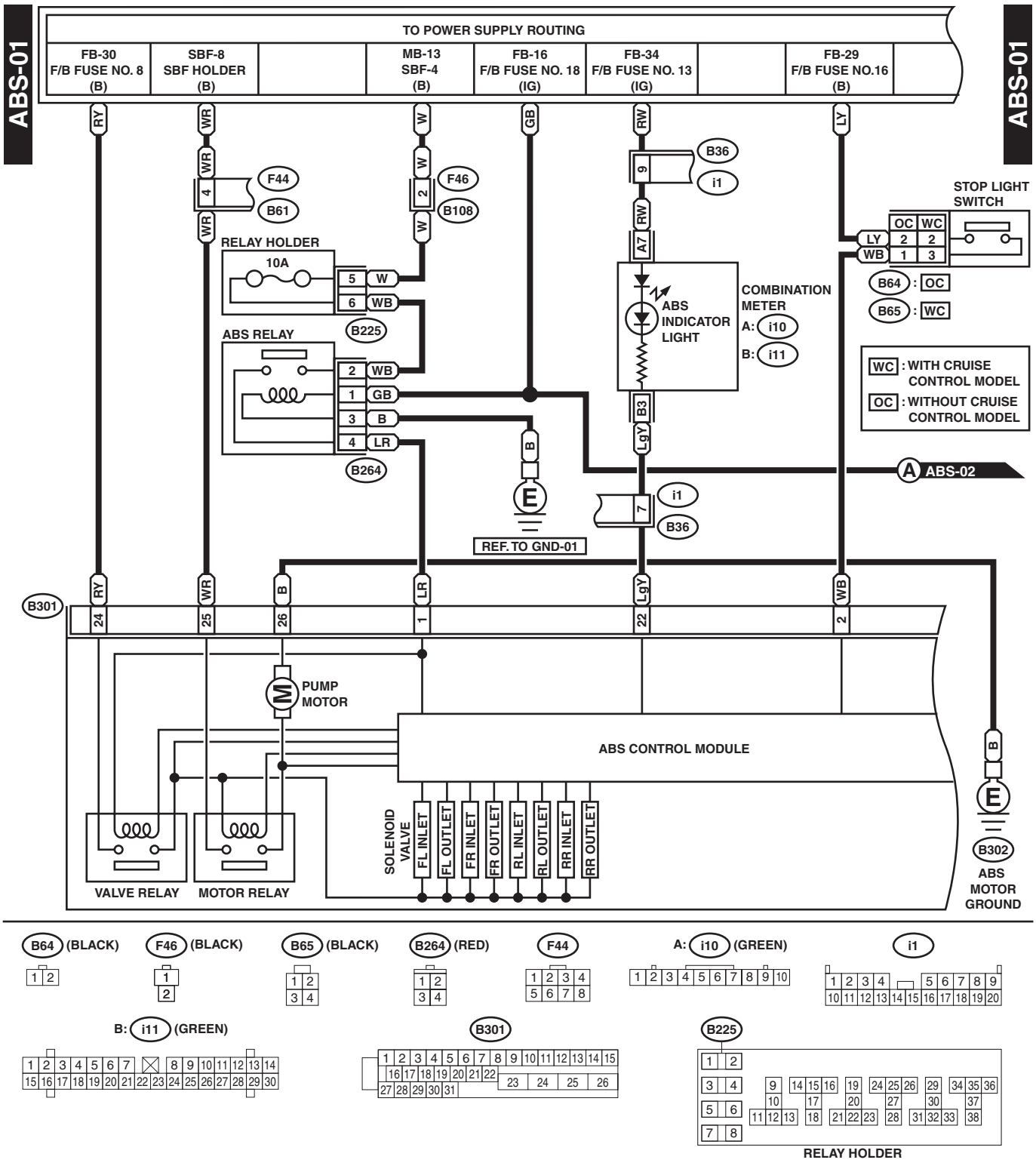
WI-01104


A/C(M)-02
TO POWER SUPPLY ROUTING
FB-19
F/B FUSE NO.17
(IG)
FB-32
F/B FUSE NO.1
(IG) NO.2
GOr
RW
BLOWER FAN
MOTOR RELAY
RW 2
GOr 1
GR 3
BR 4
B50
A/C(M)-01 A
BLOWER FAN MOTOR
BR 1
BY 2
B87
M
BLOWER FAN RESISTOR
BY 3
YB 1
RY 4
BW 2
B86
A/C(M)-01 B
REF. TO ILLUMI-01
BLOWER FAN SWITCH
0 1 2 3 4
BW 2
RY 3
YB 6
BY 5
GR 4
B 1
B169
V
OrW
GR
BW
GOr
5 6 8 9 10
B168
ILLUMINATION
LIGHT
AIR CONDITIONING SWITCH
B
E
REF. TO GND-04
A/C(M)-02
B87
B50
B86 (BROWN)
B169
B168
1 2 3 4 5 6 7 8 9 10

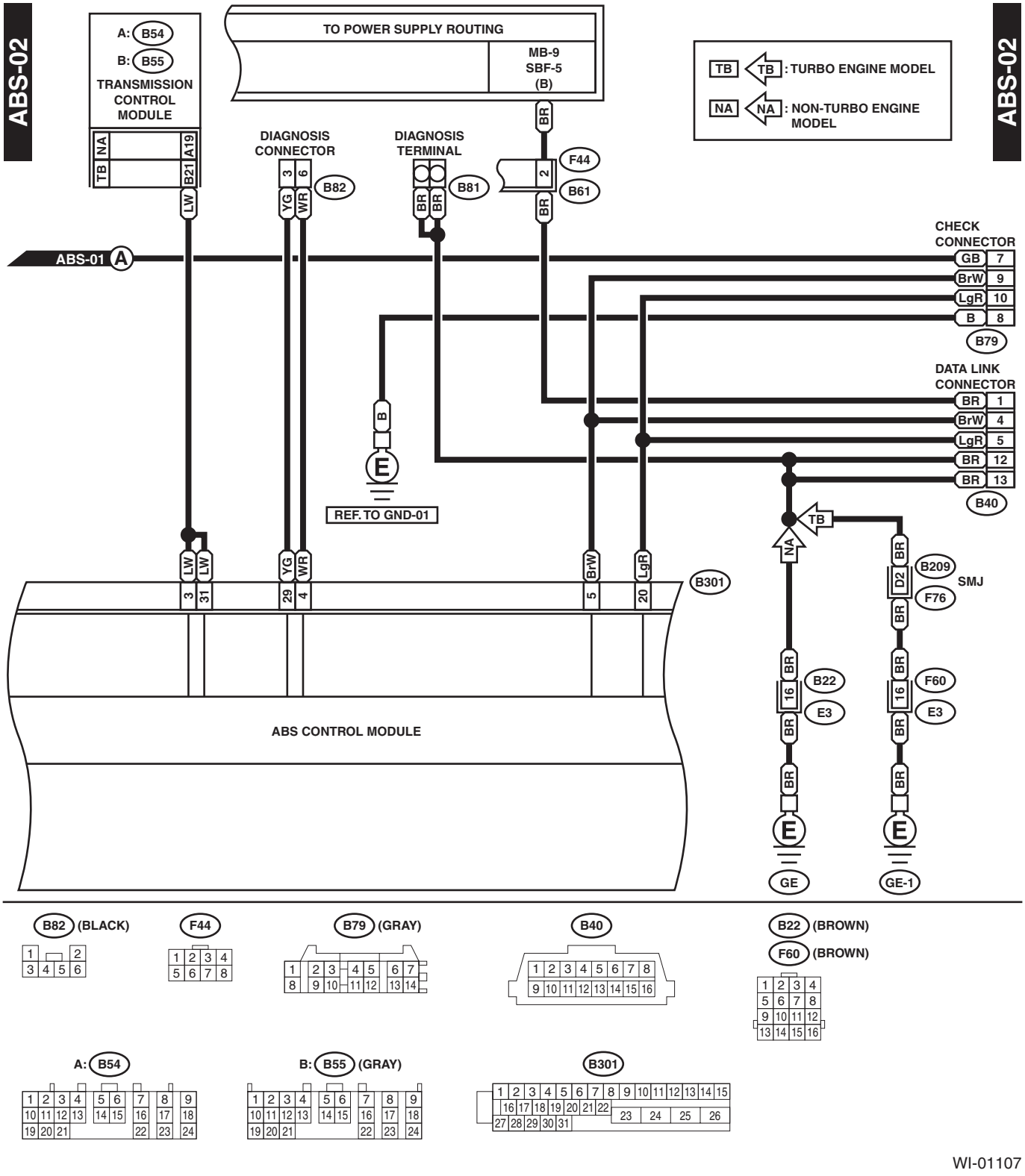
WI-01105

8. Anti-lock Brake System

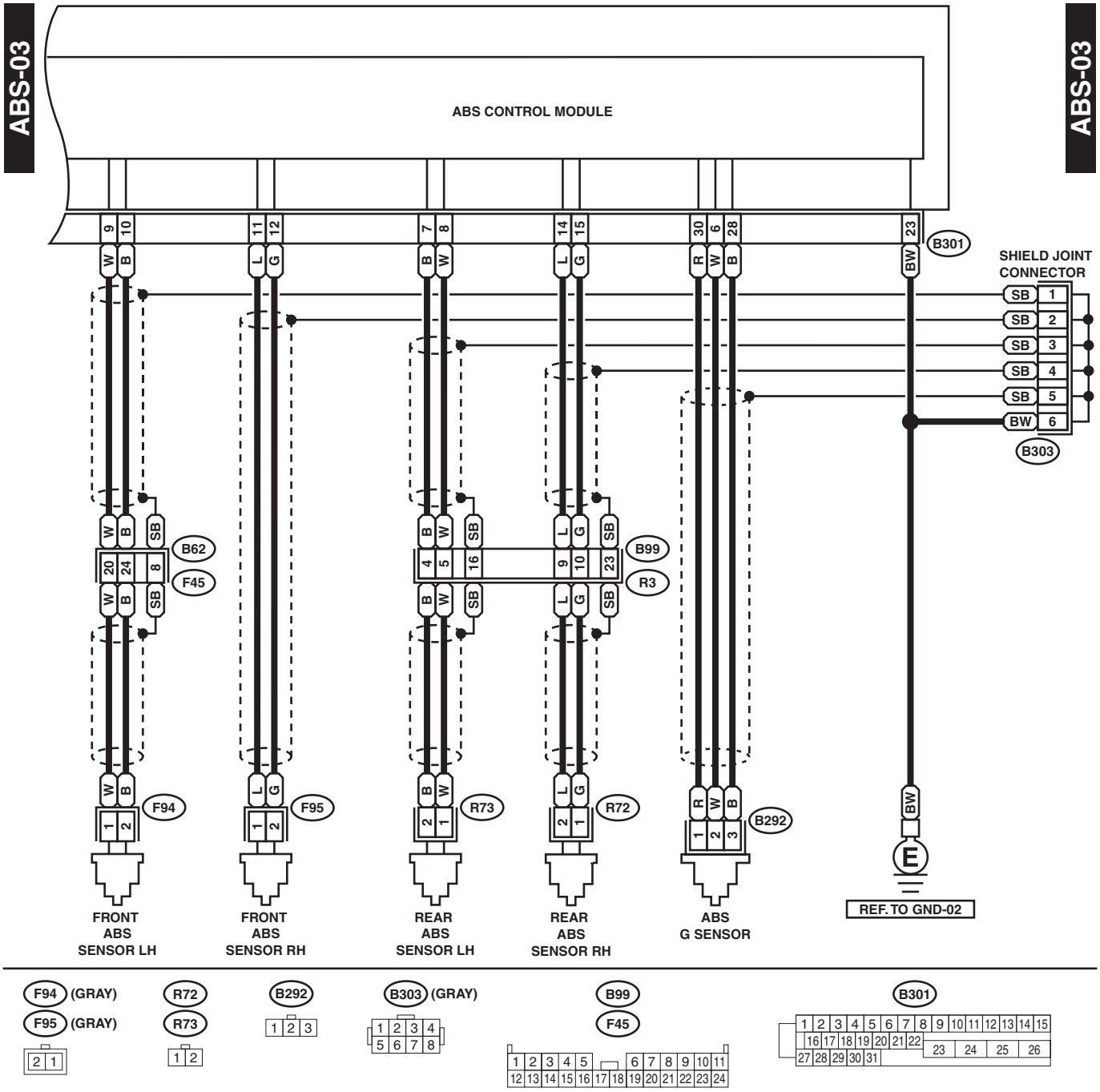
A: SCHEMATIC



WI-01106


ABS-02
A: B54
B: B55
TRANSMISSION CONTROL MODULE
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
TB : TURBO ENGINE MODEL
NA : NON-TURBO ENGINE MODEL
DIAGNOSIS CONNECTOR
B82
DIAGNOSIS TERMINAL
B81
F44
B61
CHECK CONNECTOR
B79
DATA LINK CONNECTOR
B40
ABS-01 A
REF. TO GND-01
B301
ABS CONTROL MODULE
B209
SMJ
F76
B22
E3
F60
GE
GE-1
B82 (BLACK)
F44
B79 (GRAY)
B40
B22 (BROWN)
F60 (BROWN)
A: B54
B: B55 (GRAY)
B301

WI-01107

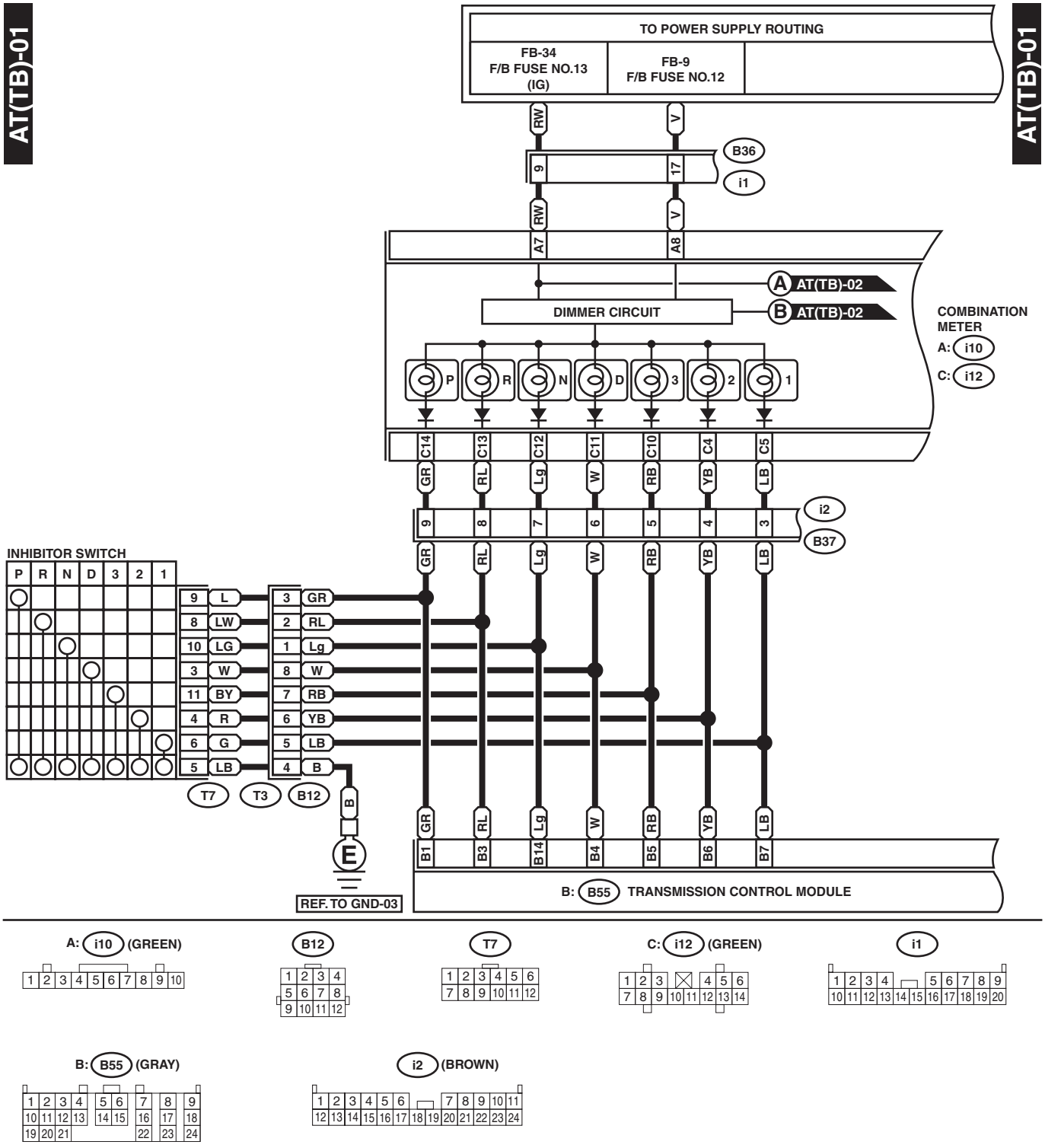

ABS-03
ABS-03
ABS CONTROL MODULE
B301
SHIELD JOINT CONNECTOR
B303
B62
F45
B99
R3
F94
F95
R73
R72
B292
FRONT ABS SENSOR LH
FRONT ABS SENSOR RH
REAR ABS SENSOR LH
REAR ABS SENSOR RH
ABS G SENSOR
REF. TO GND-02
F94 (GRAY)
F95 (GRAY)
R72
R73
B292
B303 (GRAY)
B99
F45
B301

WI-01108

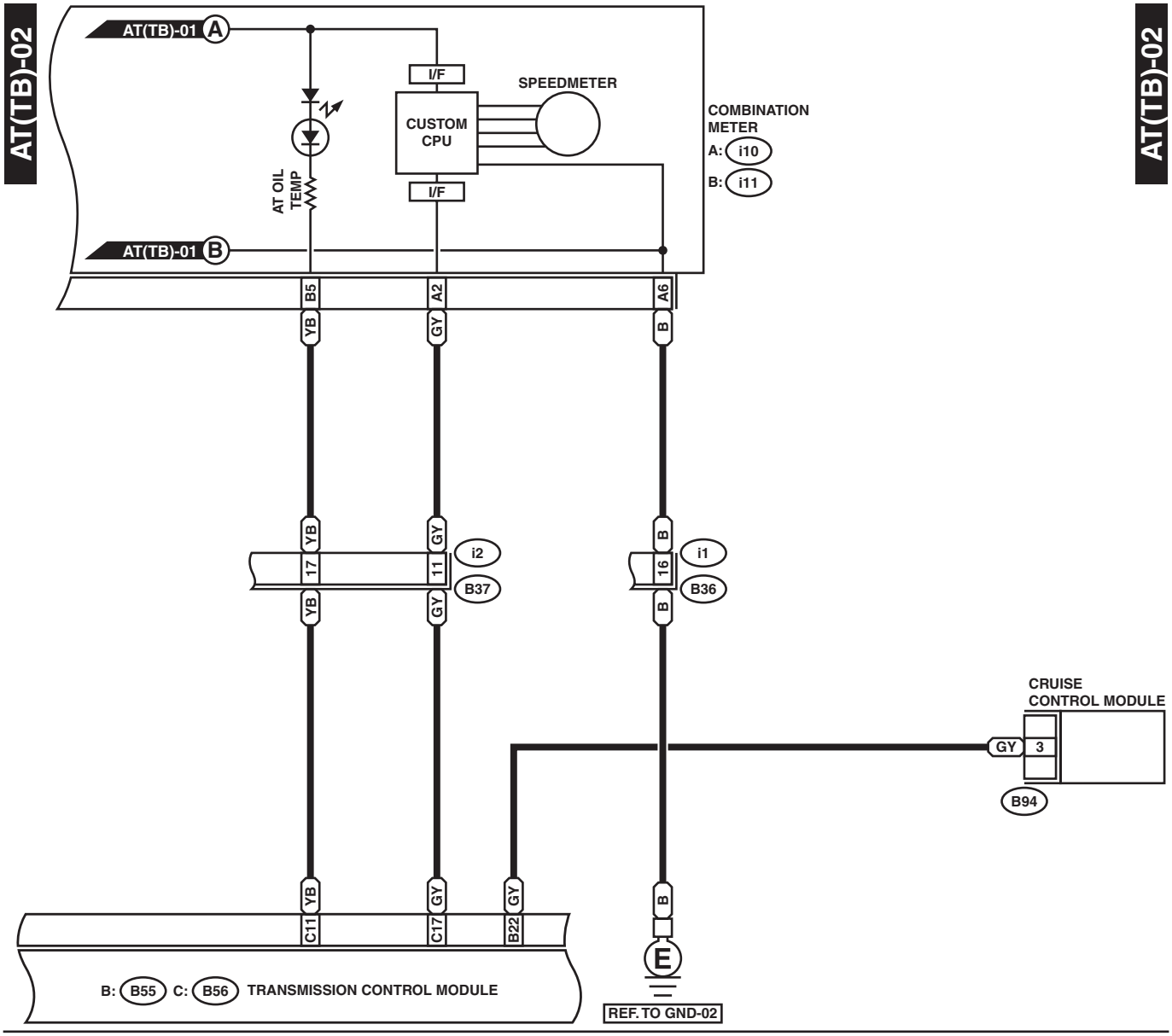
9. A/T Control System

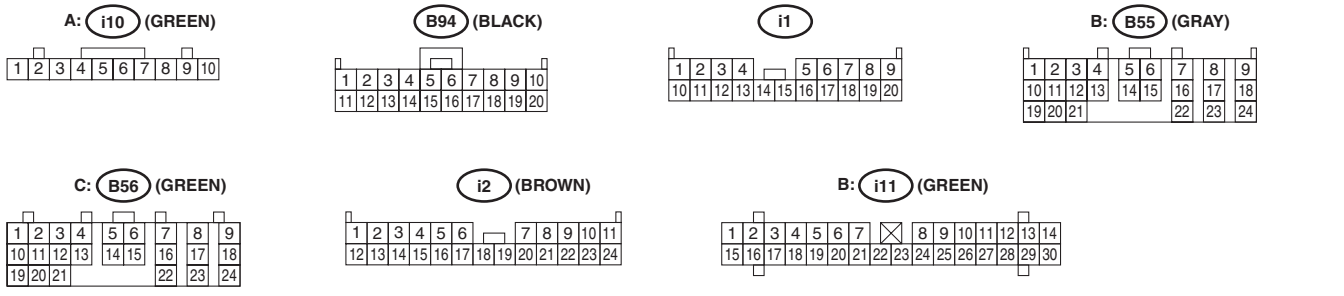
A: SCHEMATIC

1. TURBO ENGINE MODEL

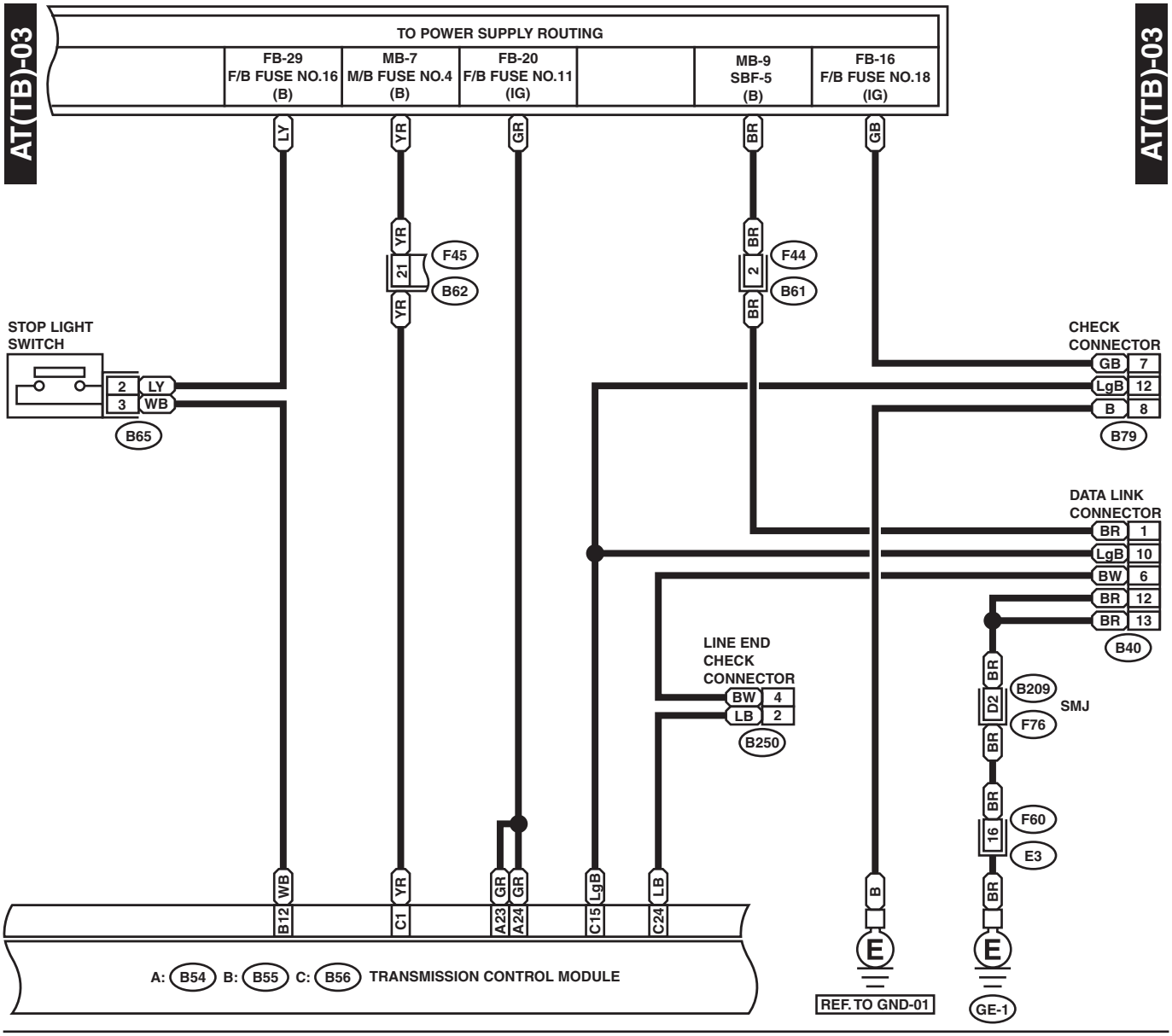


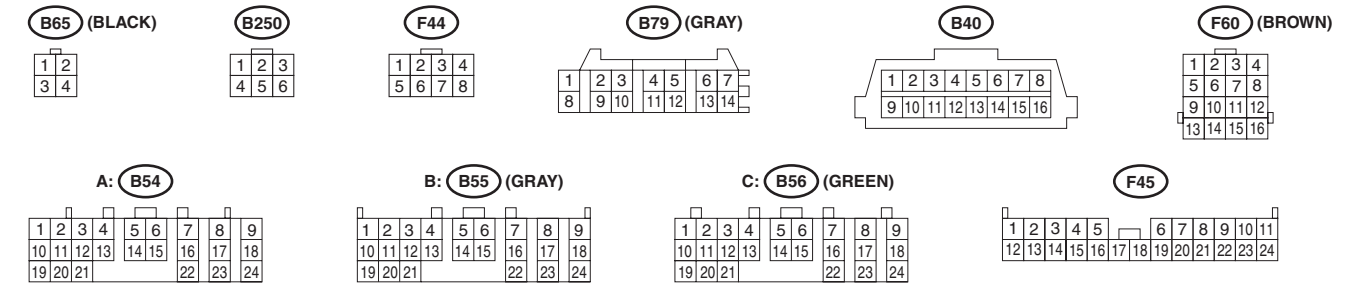
WI-01109


AT(TB)-02
AT(TB)-01 A
I/F
SPEEDMETER
CUSTOM CPU
I/F
AT OIL TEMP
COMBINATION METER
A: i10
B: i11
AT(TB)-01 B
B5
A2
A6
YB
GY
B
YB
GY
B
i2
17
11
16
i1
B37
B36
YB
GY
B
CRUISE CONTROL MODULE
GY
3
B94
YB
GY
GY
B
C11
C17
B22
E
B: B55 C: B56 TRANSMISSION CONTROL MODULE
REF. TO GND-02

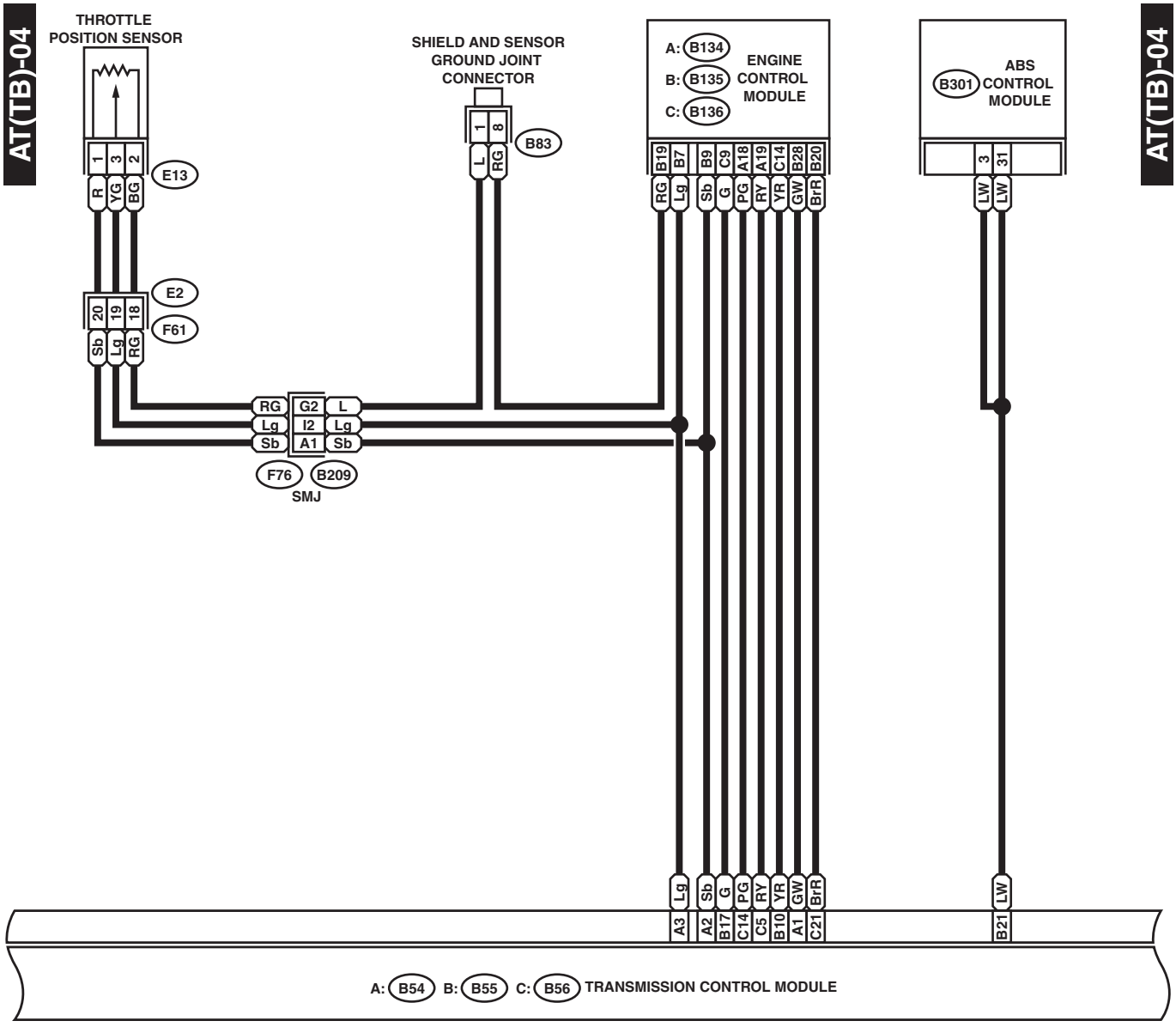

A: i10 (GREEN)
B94 (BLACK)
i1
B: B55 (GRAY)
C: B56 (GREEN)
i2 (BROWN)
B: i11 (GREEN)

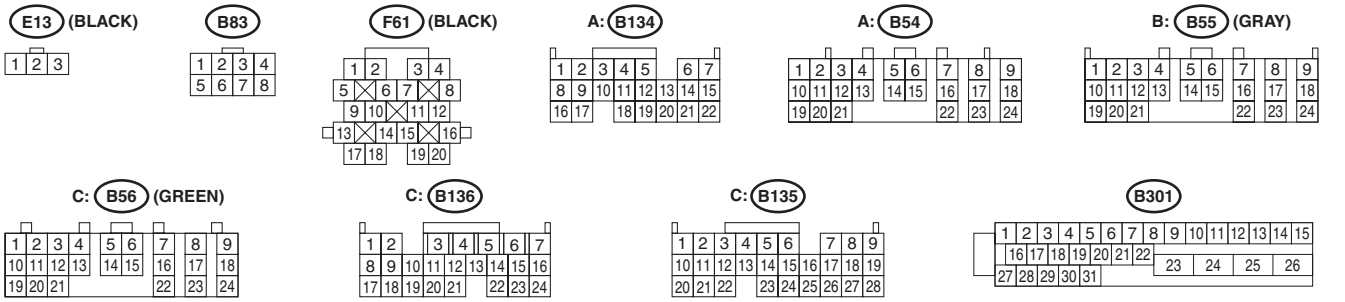
WI-01110


AT(TB)-03
TO POWER SUPPLY ROUTING
FB-29
F/B FUSE NO.16
(B)
MB-7
M/B FUSE NO.4
(B)
FB-20
F/B FUSE NO.11
(IG)
MB-9
SBF-5
(B)
FB-16
F/B FUSE NO.18
(IG)
LY
YR
GR
BR
GB
F45
B62
F44
B61
STOP LIGHT SWITCH
2 LY
3 WB
B65
CHECK CONNECTOR
GB 7
LgB 12
B 8
B79
DATA LINK CONNECTOR
BR 1
LgB 10
BW 6
BR 12
BR 13
B40
LINE END CHECK CONNECTOR
BW 4
LB 2
B250
B209
D2
SMJ
F76
F60
16
E3
B12
C1
A23
A24
C15
C24
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
REF. TO GND-01
GE-1

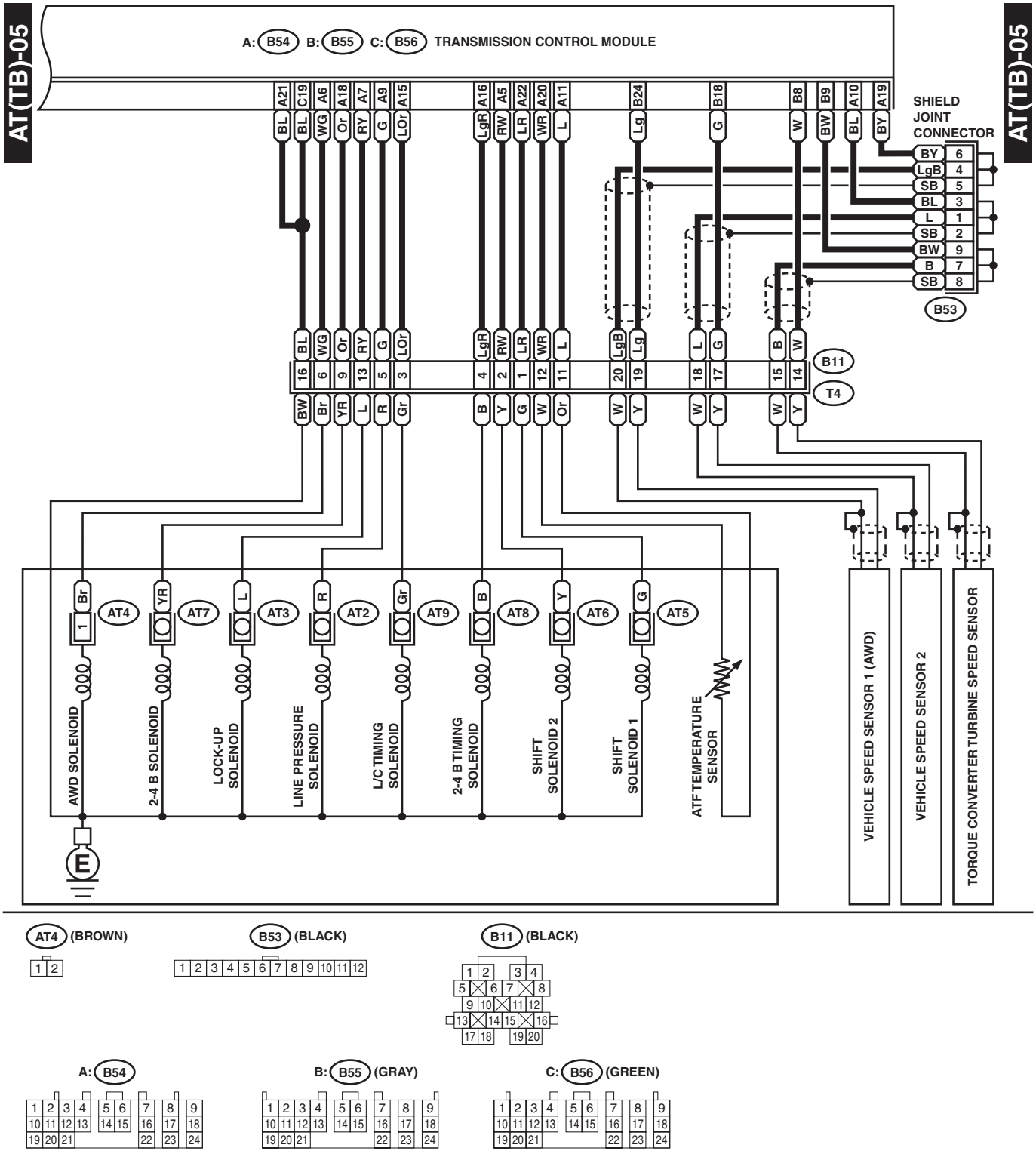

B65 (BLACK)
B250
F44
B79 (GRAY)
B40
F60 (BROWN)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)
F45

WI-01111


AT(TB)-04
THROTTLE POSITION SENSOR
1 3 2
E13
R YG BG
E2
20 19 18
F61
Sb Lg RG
SHIELD AND SENSOR GROUND JOINT CONNECTOR
1 8
B83
L RG
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE
B19 B7 B9 C9 A18 A19 C14 B28 B20
RG Lg Sb G PG RY YR GW BrR
B301
ABS CONTROL MODULE
3 31
LW LW
RG G2 L
Lg I2 Lg
Sb A1 Sb
F76 B209
SMJ
Lg Sb G PG RY YR GW BrR
A3 A2 B17 C14 C5 B10 A1 C21
LW
B21
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
AT(TB)-04

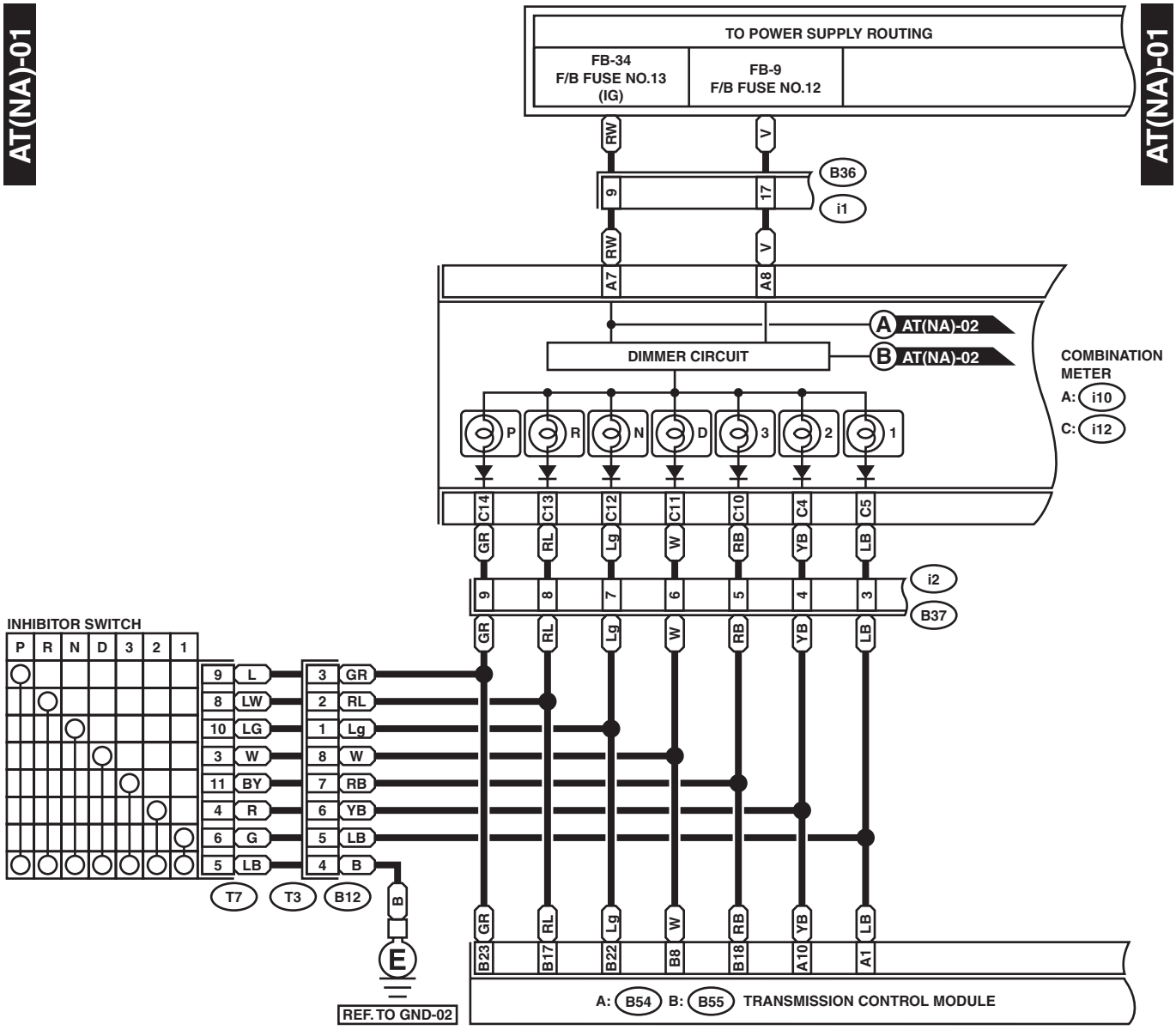

E13 (BLACK)
B83
F61 (BLACK)
A: B134
A: B54
B: B55 (GRAY)
C: B56 (GREEN)
C: B136
C: B135
B301

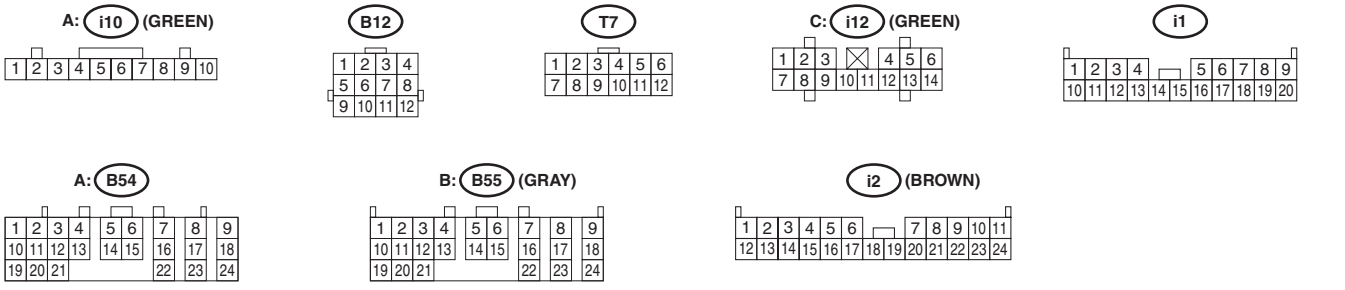
WI-01112


AT(TB)-05
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
AT(TB)-05
SHIELD JOINT CONNECTOR
B53
B11
T4
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
AT4 (BROWN)
B53 (BLACK)
B11 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

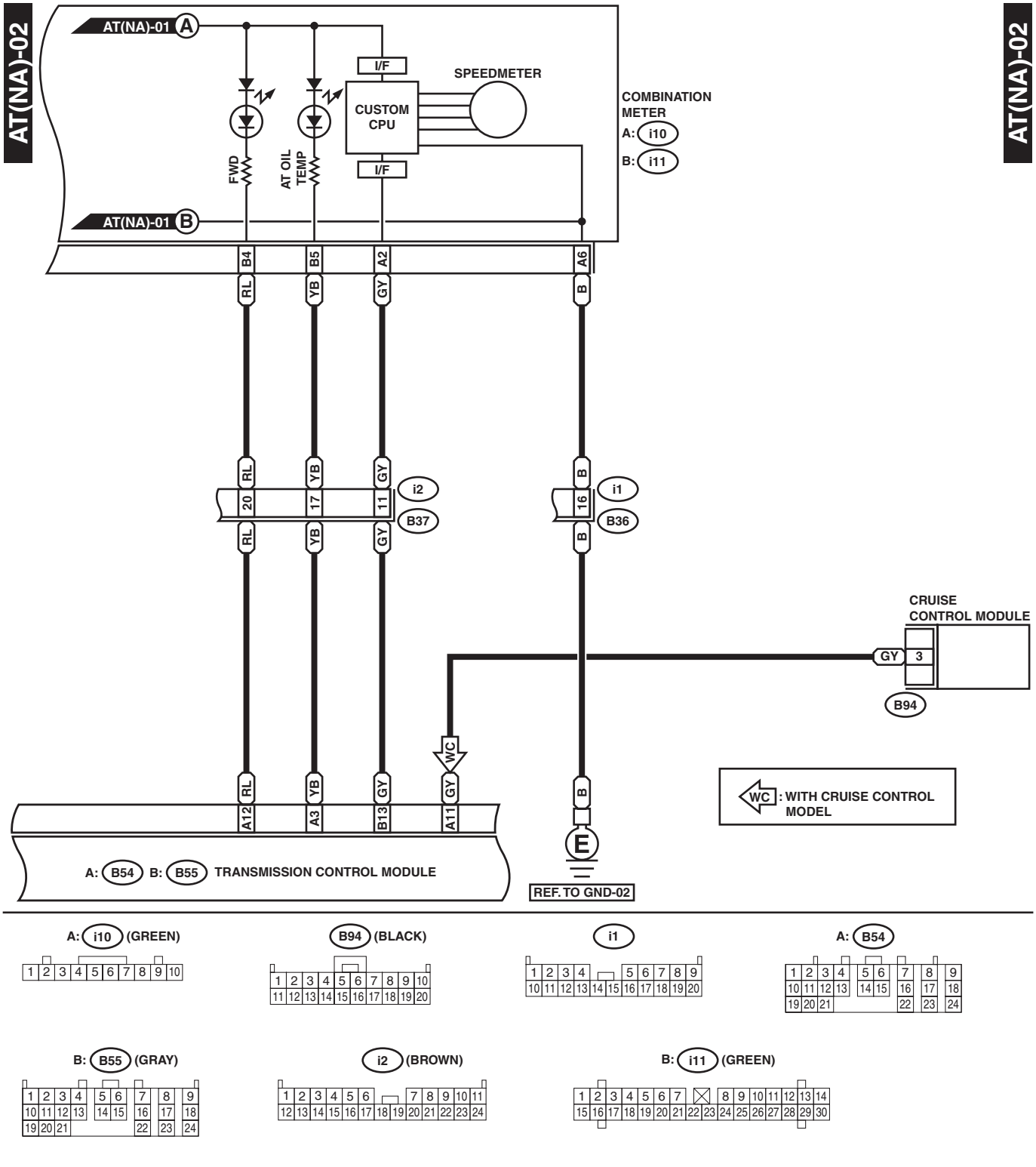
WI-02171

2. NON-TURBO ENGINE MODEL

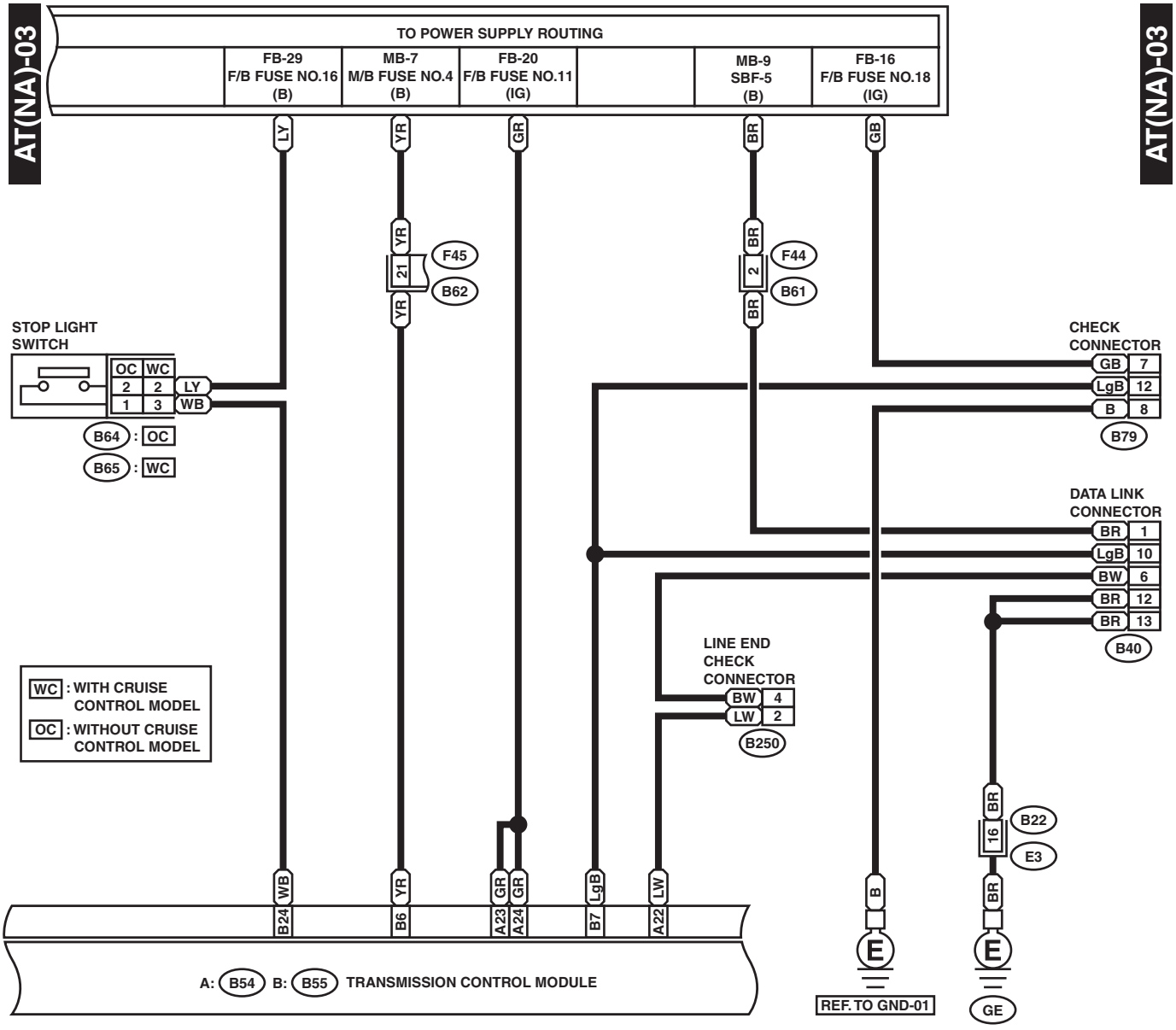


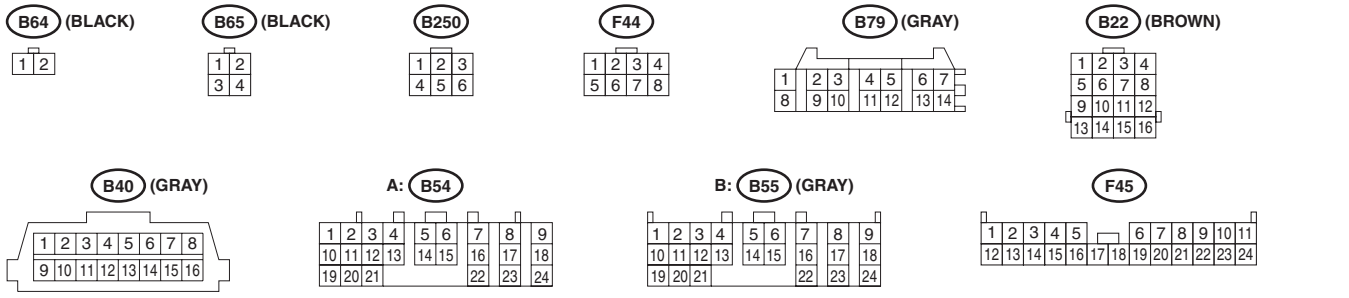


WI-01113

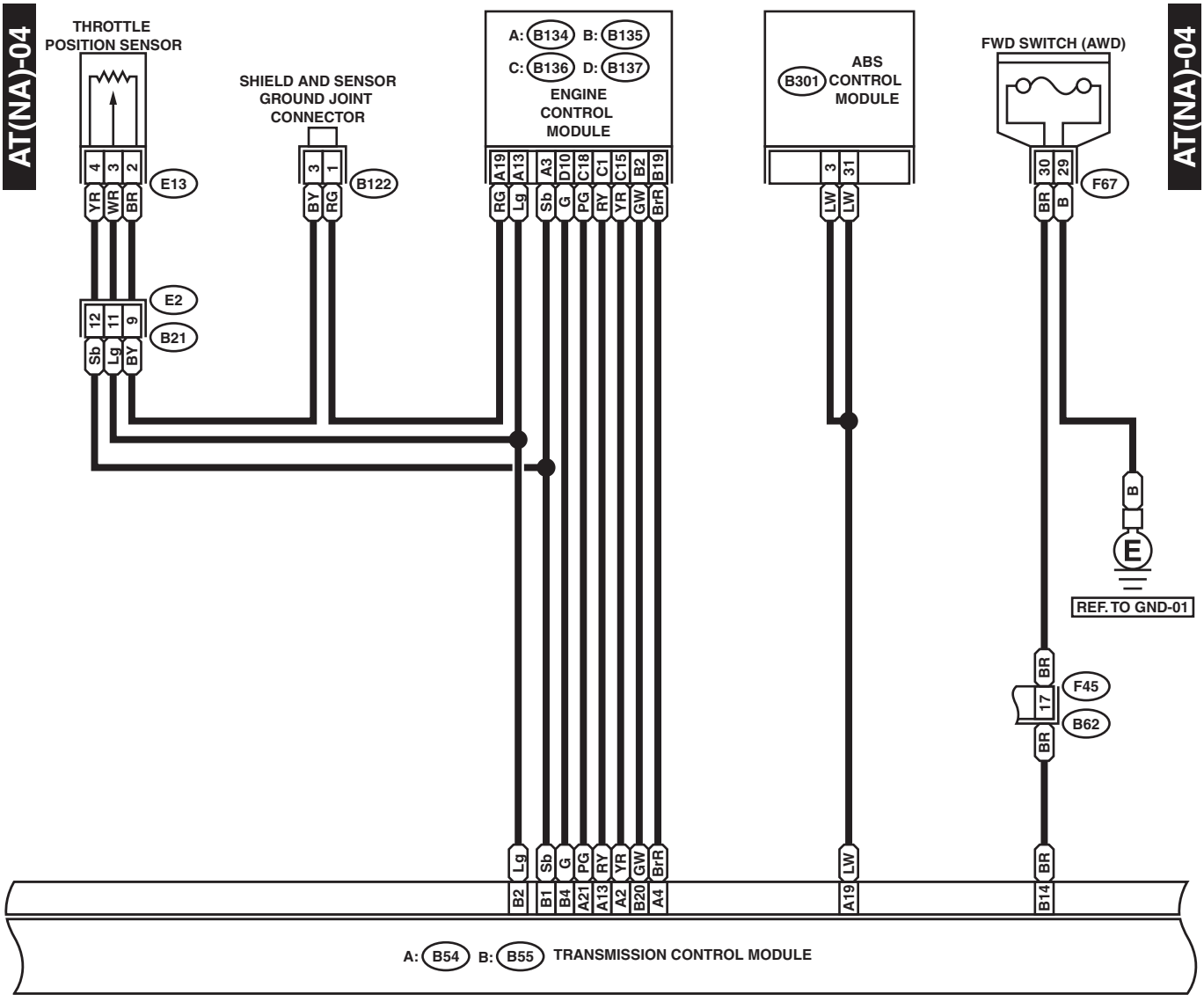

AT(NA)-02
AT(NA)-01 A
AT(NA)-01 B
I/F
SPEEDMETER
CUSTOM CPU
I/F
FWD
AT OIL TEMP
COMBINATION METER
A: i10
B: i11
B4
B5
A2
A6
RL
YB
GY
B
i2
B37
i1
B36
20
17
11
16
CRUISE CONTROL MODULE
GY
3
B94
WC
A12
A3
B13
A11
WC : WITH CRUISE CONTROL MODEL
A: B54 B: B55 TRANSMISSION CONTROL MODULE
REF. TO GND-02
A: i10 (GREEN)
B94 (BLACK)
i1
A: B54
B: B55 (GRAY)
i2 (BROWN)
B: i11 (GREEN)

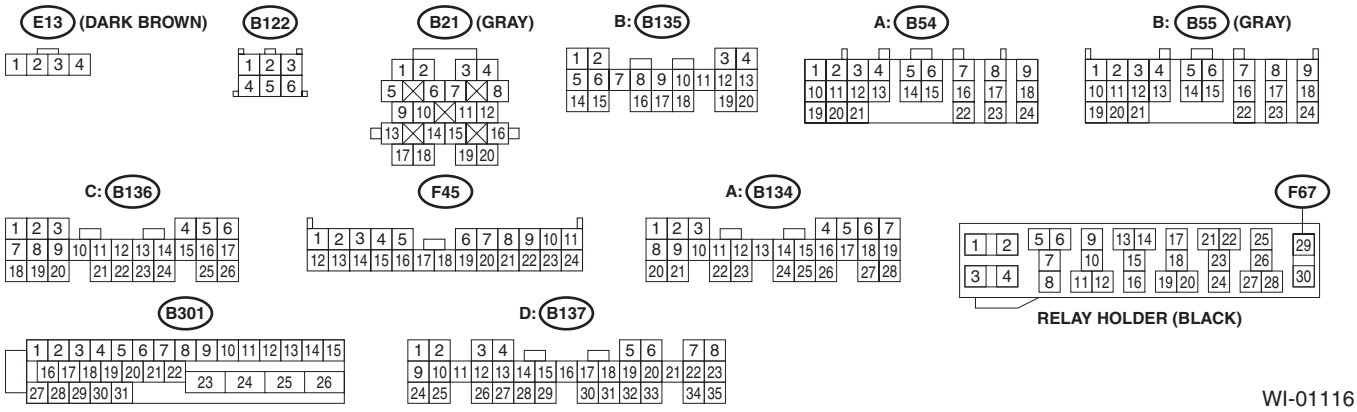
WI-01114


AT(NA)-03
AT(NA)-03
TO POWER SUPPLY ROUTING
FB-29 F/B FUSE NO.16 (B)
MB-7 M/B FUSE NO.4 (B)
FB-20 F/B FUSE NO.11 (IG)
MB-9 SBF-5 (B)
FB-16 F/B FUSE NO.18 (IG)
LY
YR
GR
BR
GB
F45
B62
F44
B61
STOP LIGHT SWITCH
OC WC
2 2 LY
1 3 WB
B64 : OC
B65 : WC
CHECK CONNECTOR
GB 7
LgB 12
B 8
B79
DATA LINK CONNECTOR
BR 1
LgB 10
BW 6
BR 12
BR 13
B40
LINE END CHECK CONNECTOR
BW 4
LW 2
B250
WC : WITH CRUISE CONTROL MODEL
OC : WITHOUT CRUISE CONTROL MODEL
B22
E3
B24
B6
A23
A24
B7
A22
A: B54 B: B55 TRANSMISSION CONTROL MODULE
REF. TO GND-01
GE

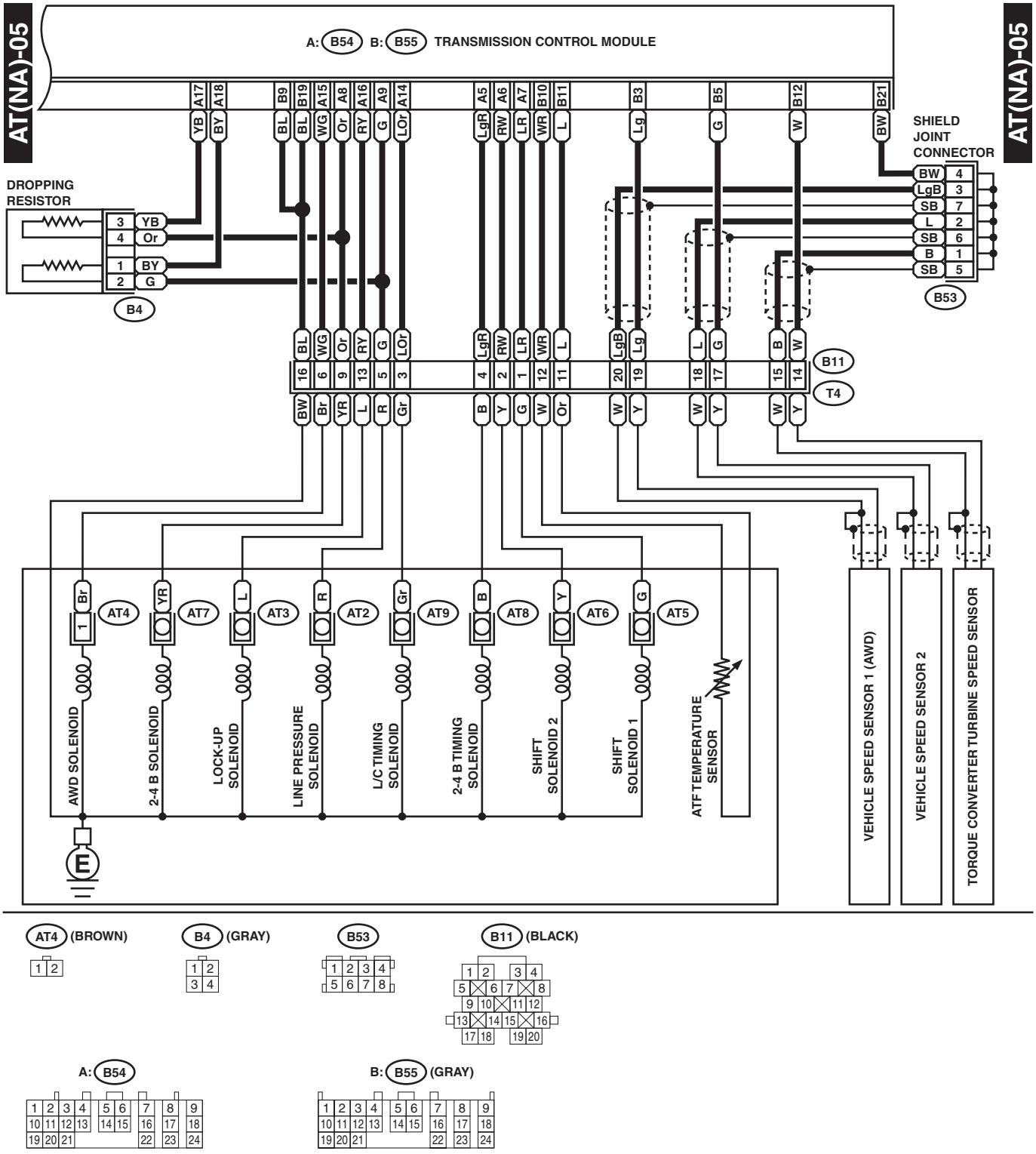

B64 (BLACK)
B65 (BLACK)
B250
F44
B79 (GRAY)
B22 (BROWN)
B40 (GRAY)
A: B54
B: B55 (GRAY)
F45

WI-01115


AT(NA)-04
THROTTLE POSITION SENSOR
SHIELD AND SENSOR GROUND JOINT CONNECTOR
A: B134 B: B135
C: B136 D: B137
ENGINE CONTROL MODULE
B301 ABS CONTROL MODULE
FWD SWITCH (AWD)
AT(NA)-04
E13
B122
E2
B21
F67
REF. TO GND-01
F45
B62
A: B54 B: B55 TRANSMISSION CONTROL MODULE


E13 (DARK BROWN)
B122
B21 (GRAY)
B: B135
A: B54
B: B55 (GRAY)
C: B136
F45
A: B134
F67
RELAY HOLDER (BLACK)
B301
D: B137

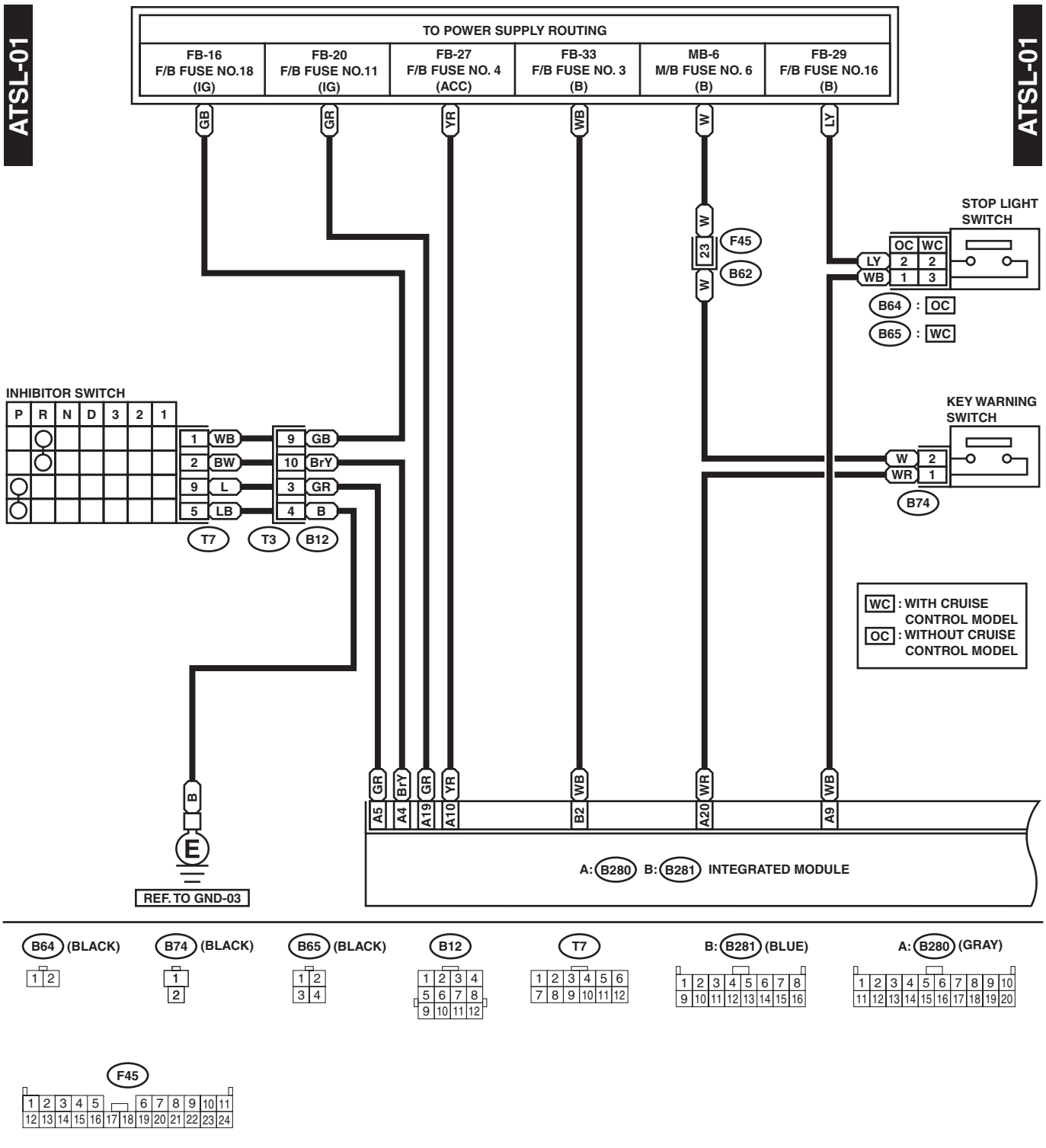
WI-01116


AT(NA)-05
A: B54 B: B55 TRANSMISSION CONTROL MODULE
A17 A18 B9 B19 A15 A8 A16 A9 A14 A5 A6 A7 B10 B11 B3 B5 B12 B21
YB BY BL BL WG Or RY G LOr LgR RW LR WR L Lg G W BW
SHIELD JOINT CONNECTOR
BW 4
LgB 3
SB 7
L 2
SB 6
B 1
SB 5
B53
DROPPING RESISTOR
3 YB
4 Or
1 BY
2 G
B4
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
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)
B4 (GRAY)
B53
B11 (BLACK)
A: B54
B: B55 (GRAY)

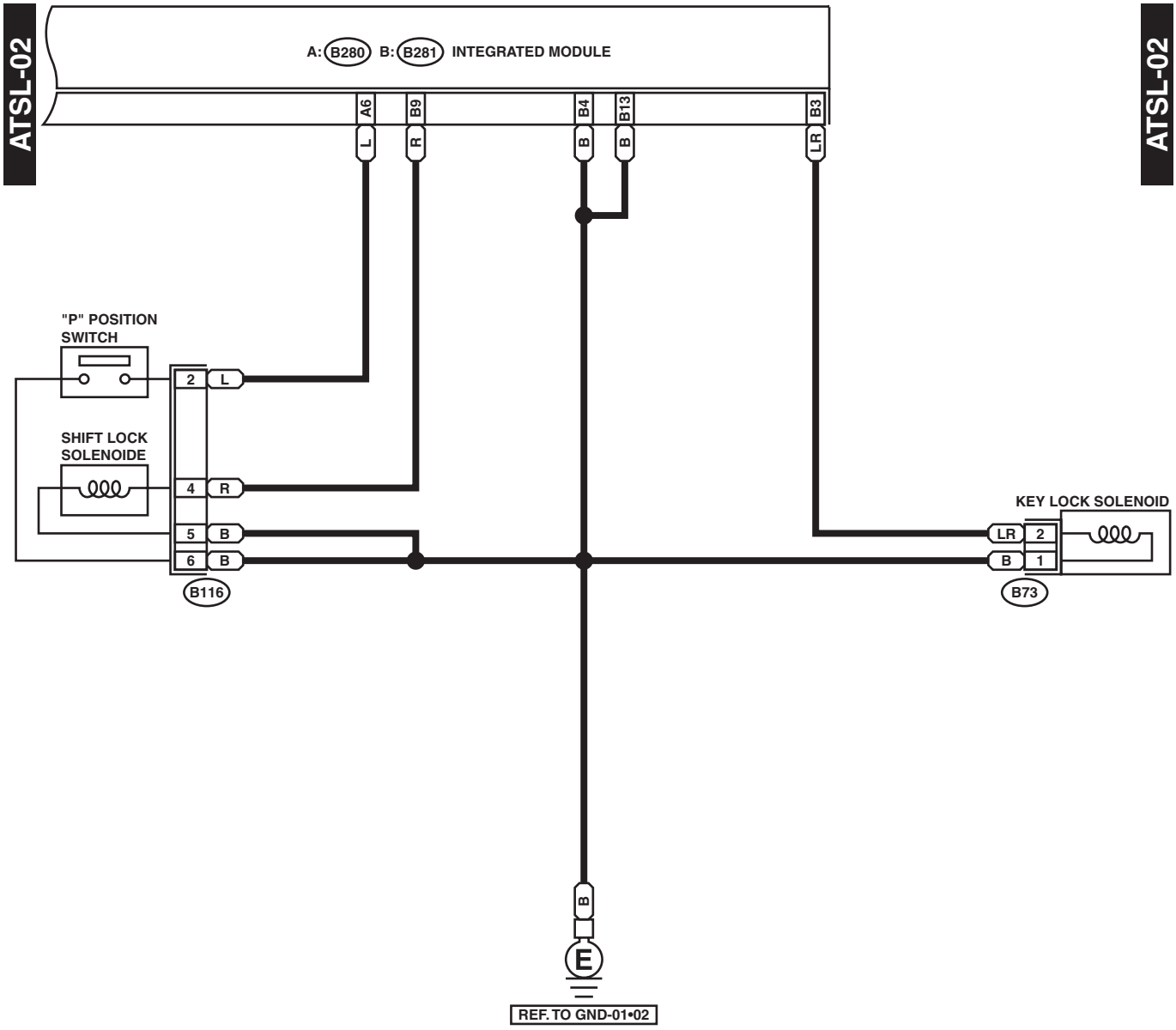
WI-01117

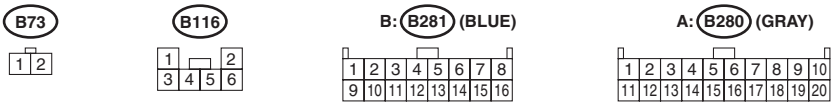
10.A/T Shift Lock Control System

A: SCHEMATIC



WI-01118

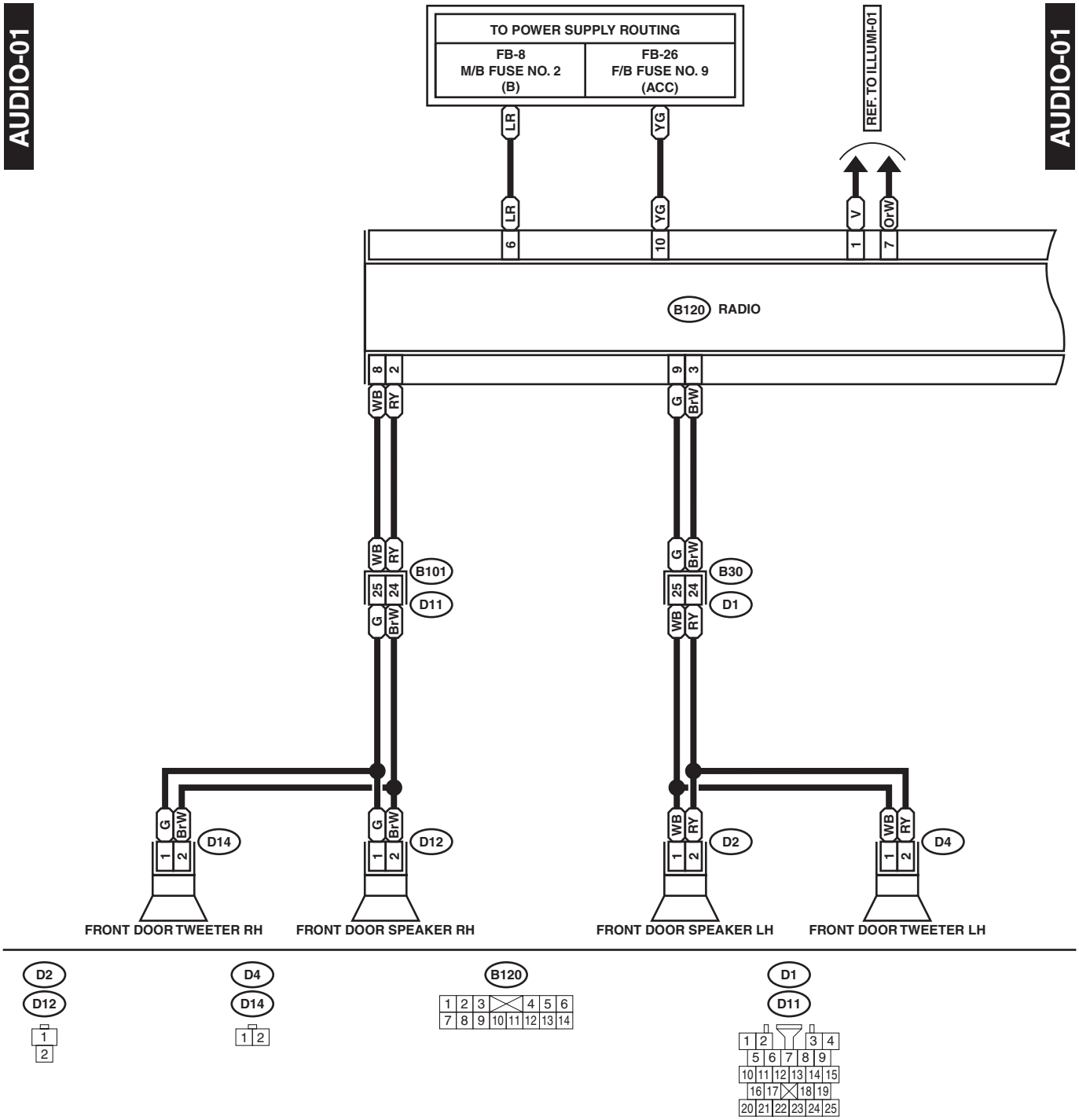

ATSL-02
ATSL-02
A: B280 B: B281 INTEGRATED MODULE
A6
B9
B4
B13
B3
L
R
B
B
LR
"P" POSITION SWITCH
SHIFT LOCK SOLENOIDE
2 L
4 R
5 B
6 B
B116
KEY LOCK SOLENOID
LR 2
B 1
B73
B
E
REF. TO GND-01•02


B73
1 2
B116
1 2
3 4 5 6
B: B281 (BLUE)
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
A: B280 (GRAY)
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

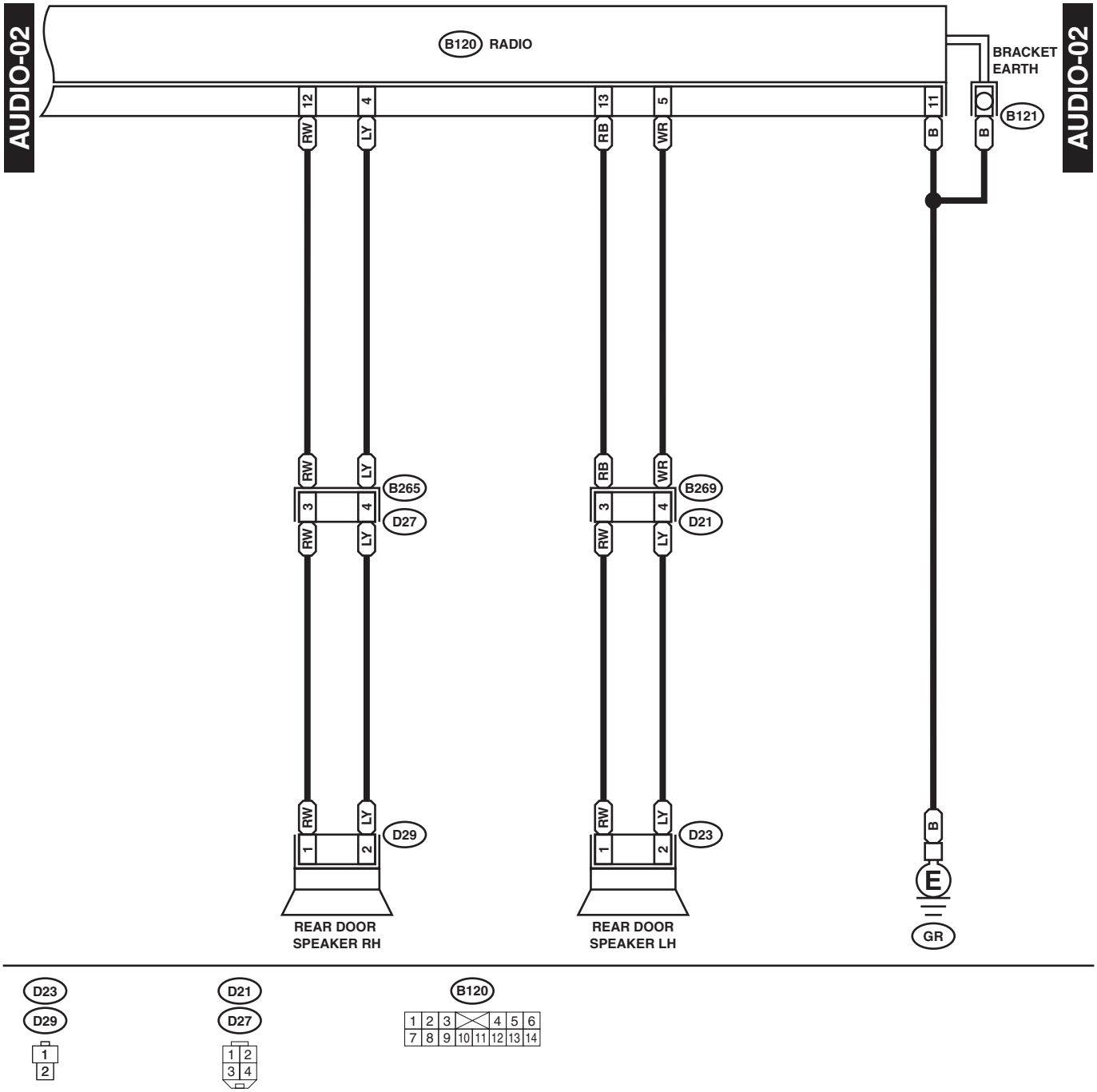
WI-01119

11.Audio System

A: SCHEMATIC



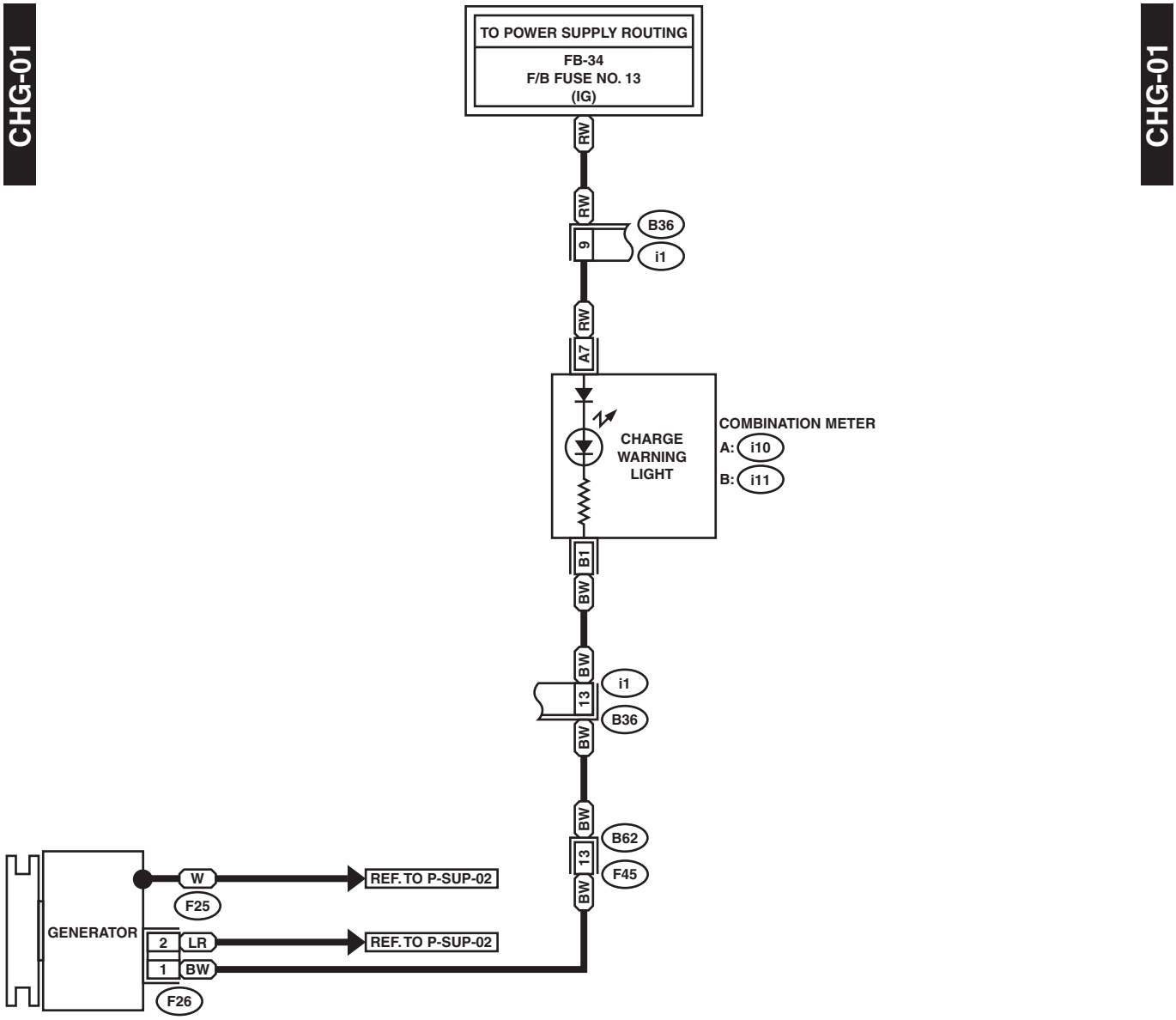
WI-02172

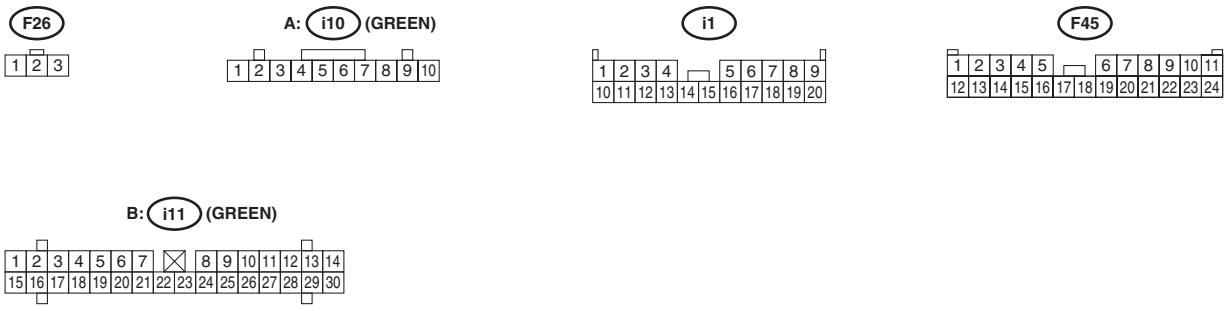

AUDIO-02
B120 RADIO
BRACKET EARTH
B121
AUDIO-02
12
4
13
5
11
RW
LY
RB
WR
B
B
RW
LY
B265
3
4
D27
RW
LY
RB
WR
B269
3
4
D21
RW
LY
RW
LY
RW
LY
D29
1
2
RW
LY
D23
1
2
B
E
GR
REAR DOOR SPEAKER RH
REAR DOOR SPEAKER LH
D23
D29
1
2
D21
D27
1 2
3 4
B120
1 2 3 4 5 6
7 8 9 10 11 12 13 14

WI-02173

12.Charging System

A: SCHEMATIC

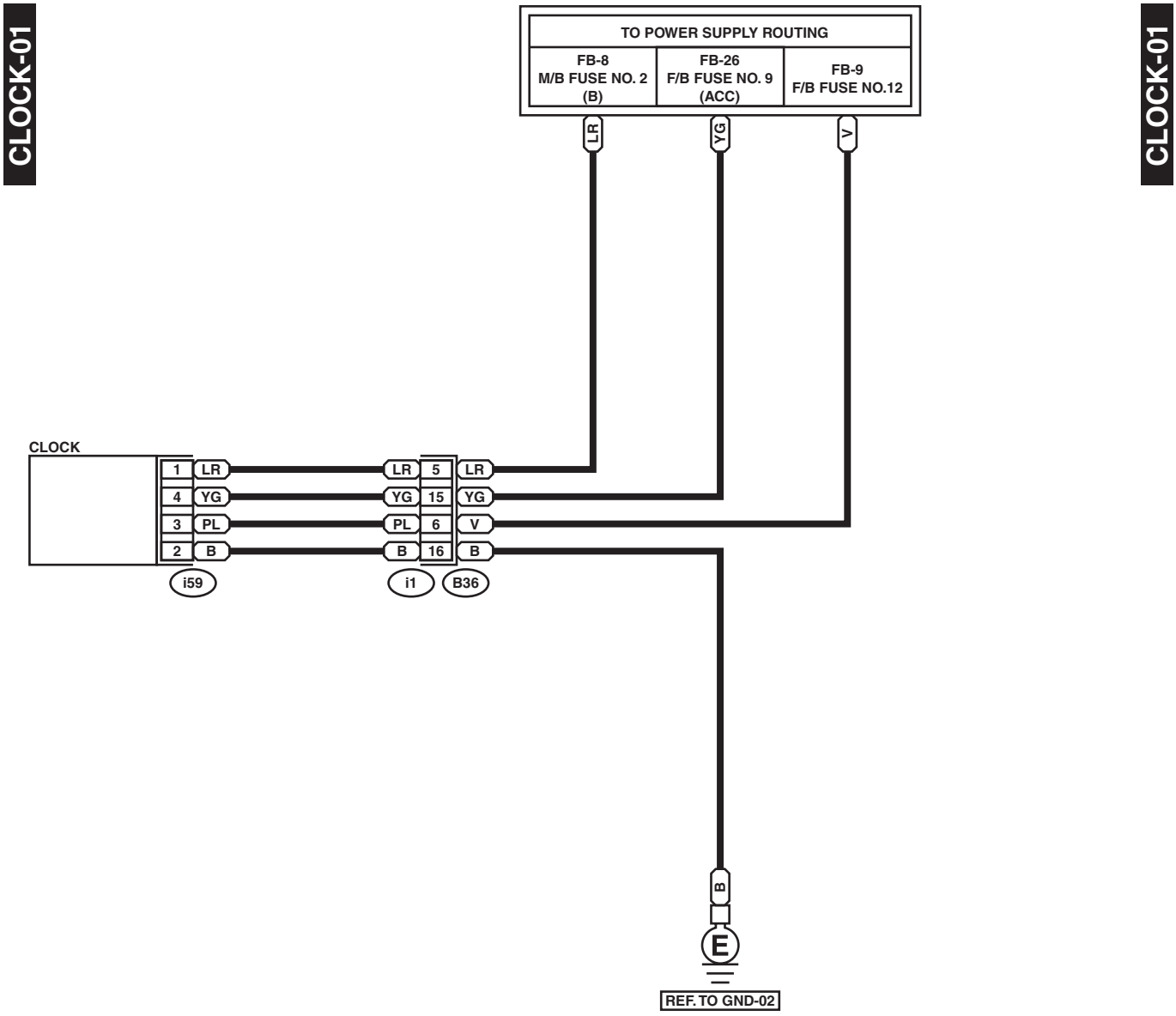


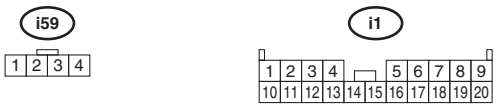


WI-01120

13.Clock System

A: SCHEMATIC





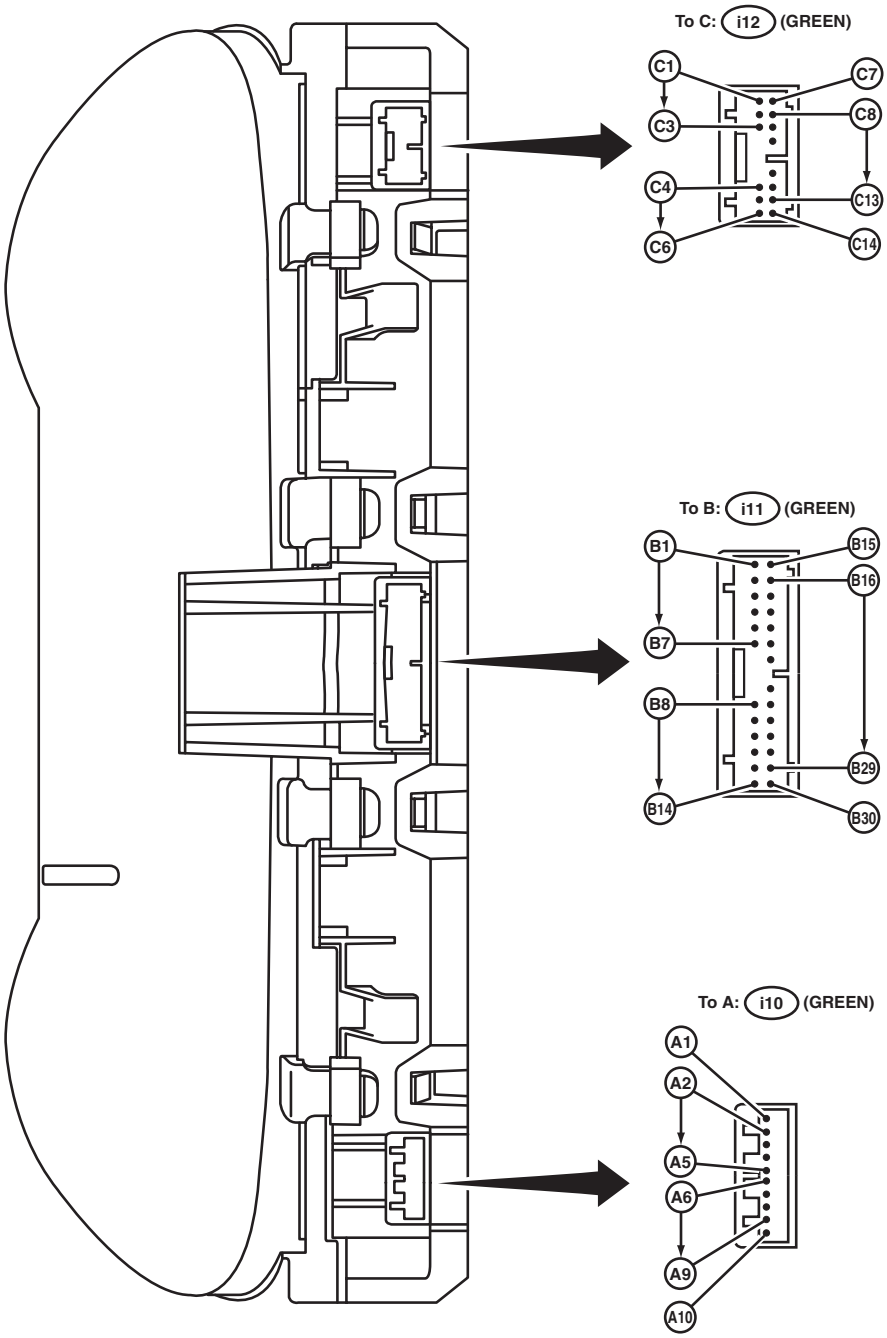
WI-02174

14.Combination Meter

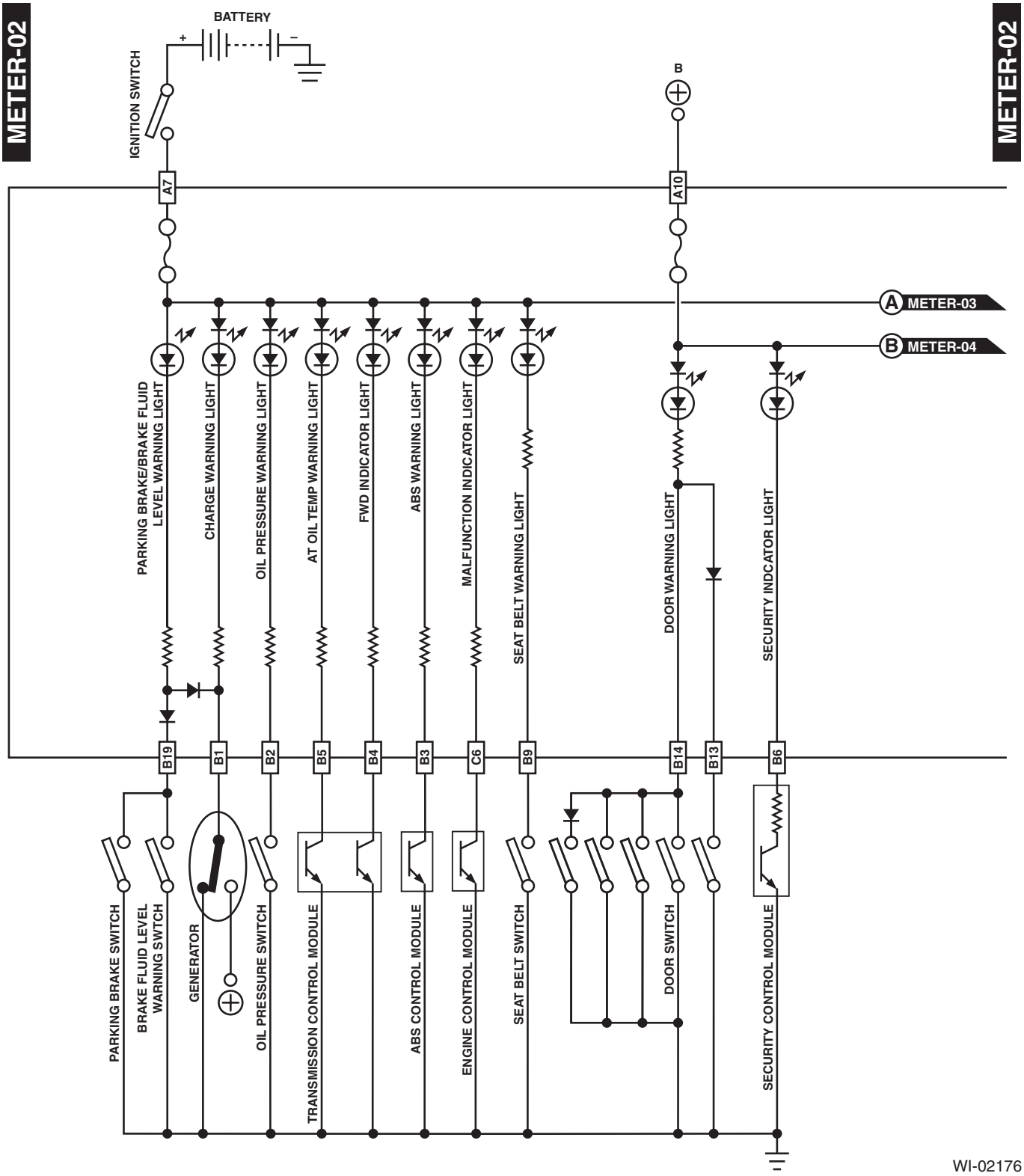
A: SCHEMATIC

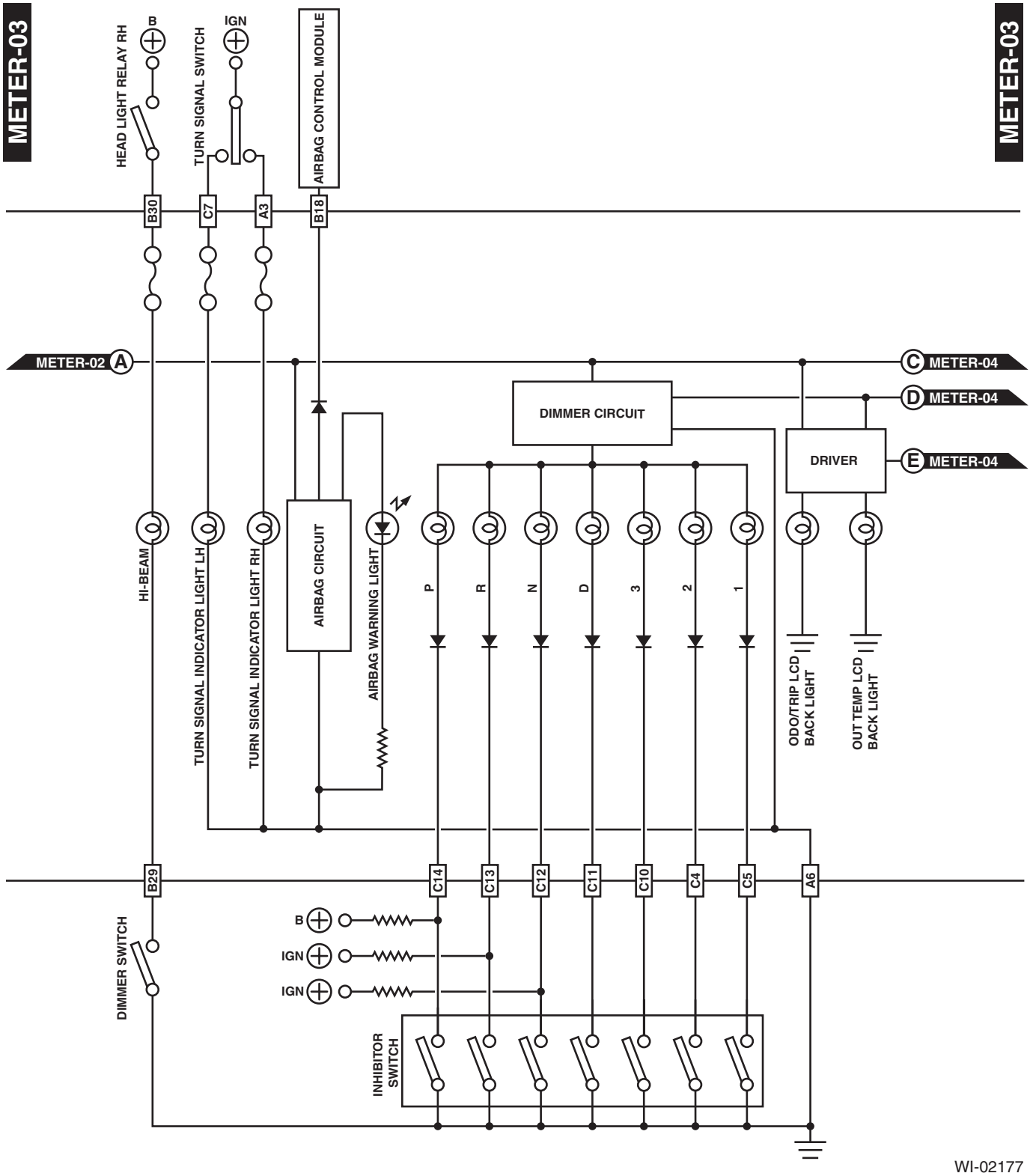
METER-01

METER-01

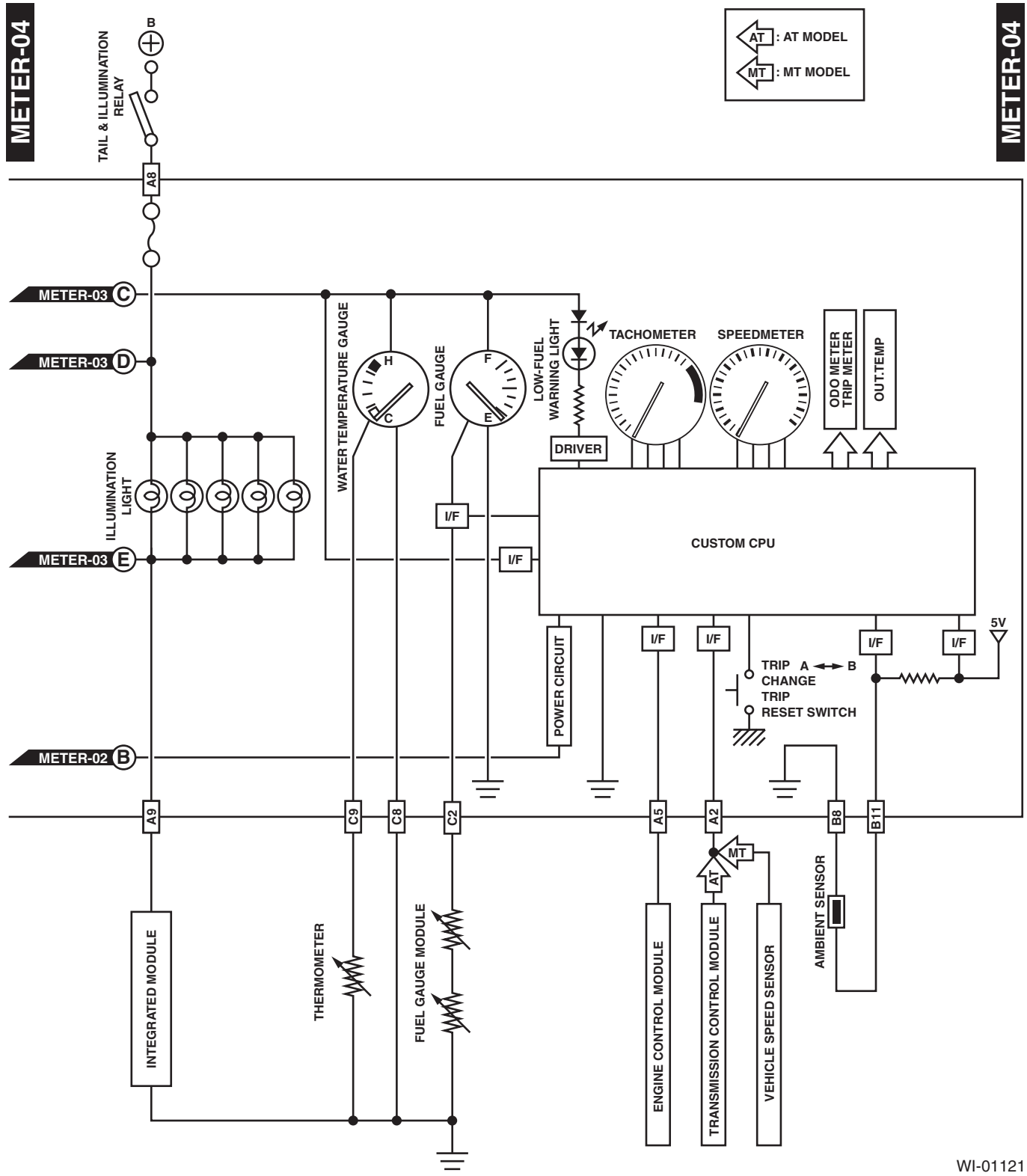


WI-02175


METER-02
METER-02
BATTERY
+
–
IGNITION SWITCH
A7
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
SECURITY 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
TRANSMISSION CONTROL MODULE
ABS CONTROL MODULE
ENGINE CONTROL MODULE
SEAT BELT SWITCH
DOOR SWITCH
SECURITY CONTROL MODULE
WI-02176


METER-03
METER-03
B
IGN
HEAD LIGHT RELAY RH
TURN SIGNAL SWITCH
AIRBAG CONTROL MODULE
B30
C7
A3
B18
METER-02 A
C METER-04
D METER-04
E METER-04
DIMMER CIRCUIT
DRIVER
HI-BEAM
TURN SIGNAL INDICATOR LIGHT LH
TURN SIGNAL INDICATOR LIGHT RH
AIRBAG CIRCUIT
AIRBAG WARNING LIGHT
P
R
N
D
3
2
1
ODO/TRIP LCD BACK LIGHT
OUT TEMP LCD BACK LIGHT
B29
C14
C13
C12
C11
C10
C4
C5
A6
DIMMER SWITCH
B
IGN
IGN
INHIBITOR SWITCH

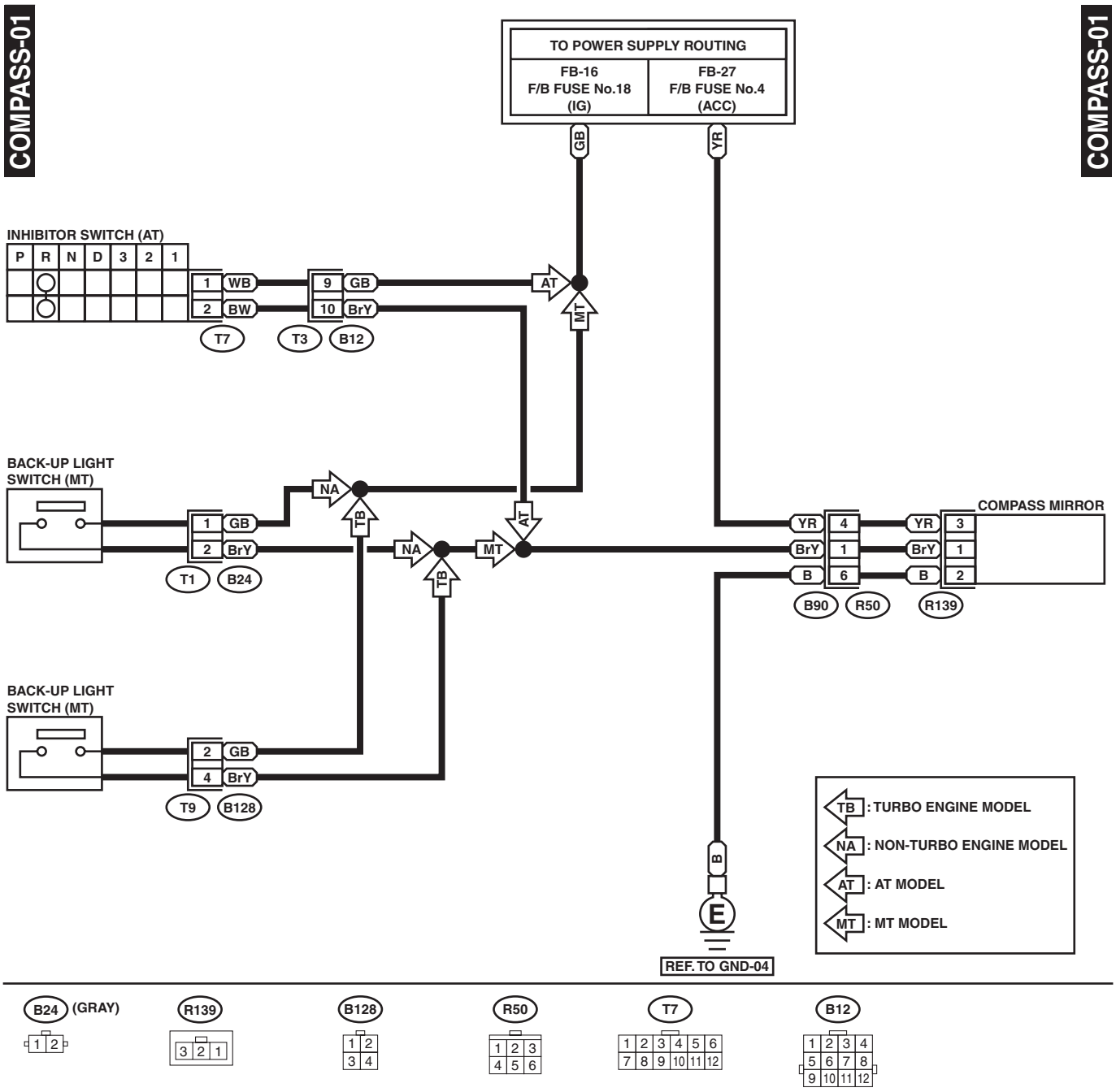
WI-02177


METER-04
METER-04
AT : AT MODEL
MT : MT MODEL
B
TAIL & ILLUMINATION RELAY
A8
METER-03 C
METER-03 D
METER-03 E
METER-02 B
ILLUMINATION LIGHT
WATER TEMPERATURE GAUGE
H
C
FUEL GAUGE
F
E
LOW-FUEL WARNING LIGHT
DRIVER
TACHOMETER
SPEEDMETER
ODO METER TRIP METER
OUT.TEMP
I/F
I/F
CUSTOM CPU
POWER CIRCUIT
I/F
I/F
I/F
I/F
5V
TRIP A ↔ B CHANGE
TRIP RESET SWITCH
A9
C9
C8
C2
A5
A2
B8
B11
MT
AT
INTEGRATED MODULE
THERMOMETER
FUEL GAUGE MODULE
ENGINE CONTROL MODULE
TRANSMISSION CONTROL MODULE
VEHICLE SPEED SENSOR
AMBIENT SENSOR

WI-01121

15.Compass Mirror System

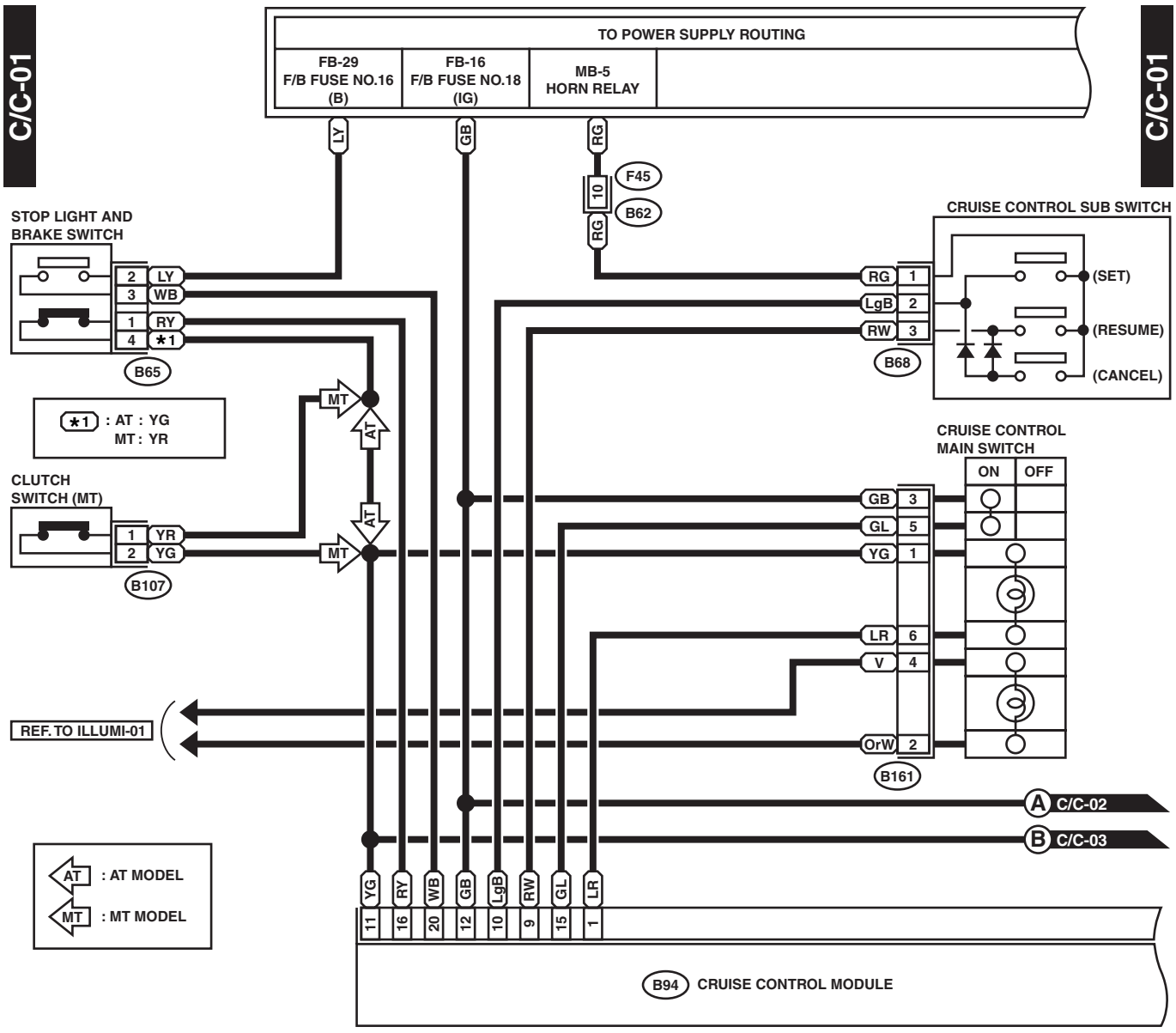
A: SCHEMATIC



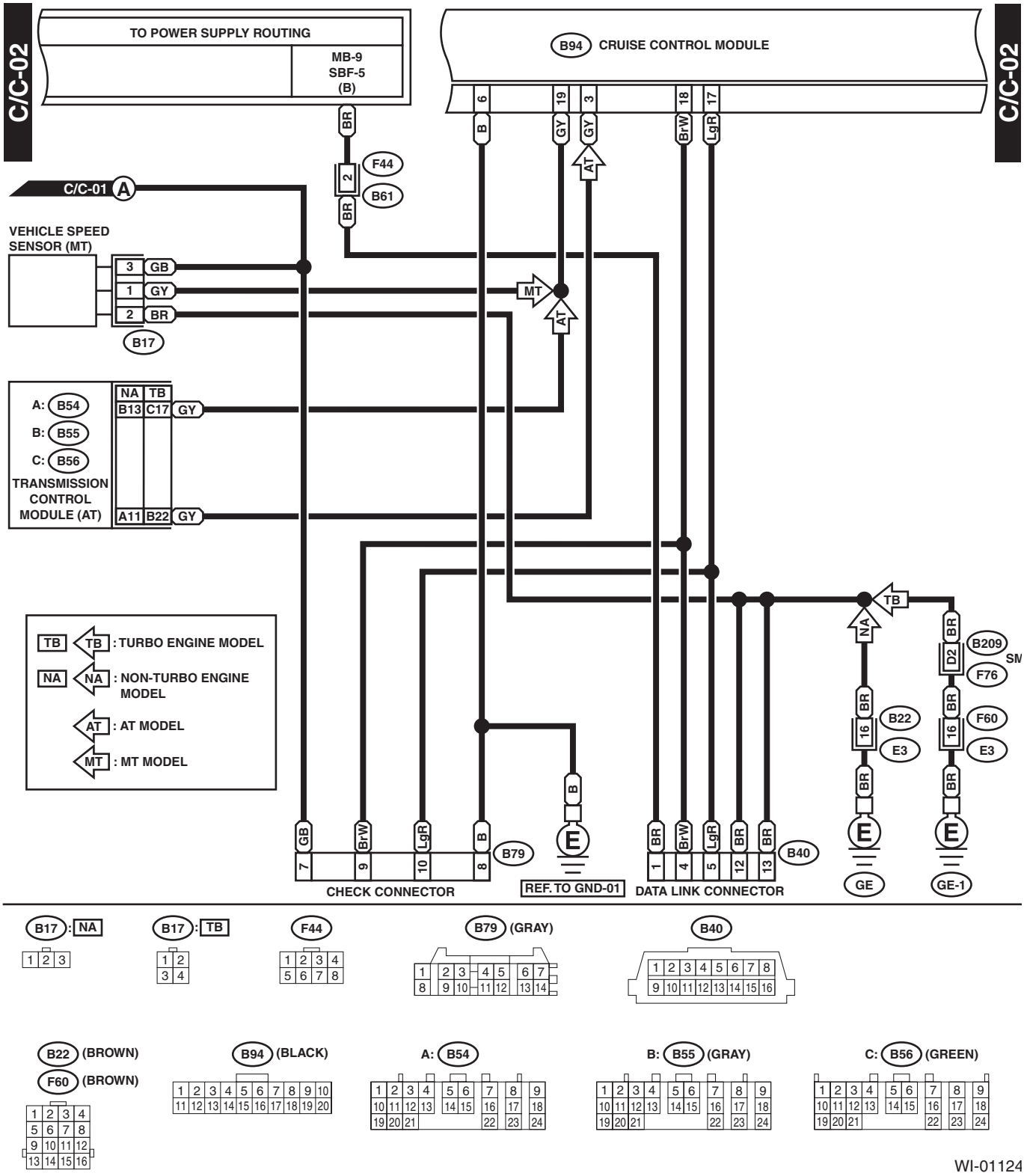
WI-01122

16.Cruise Control System

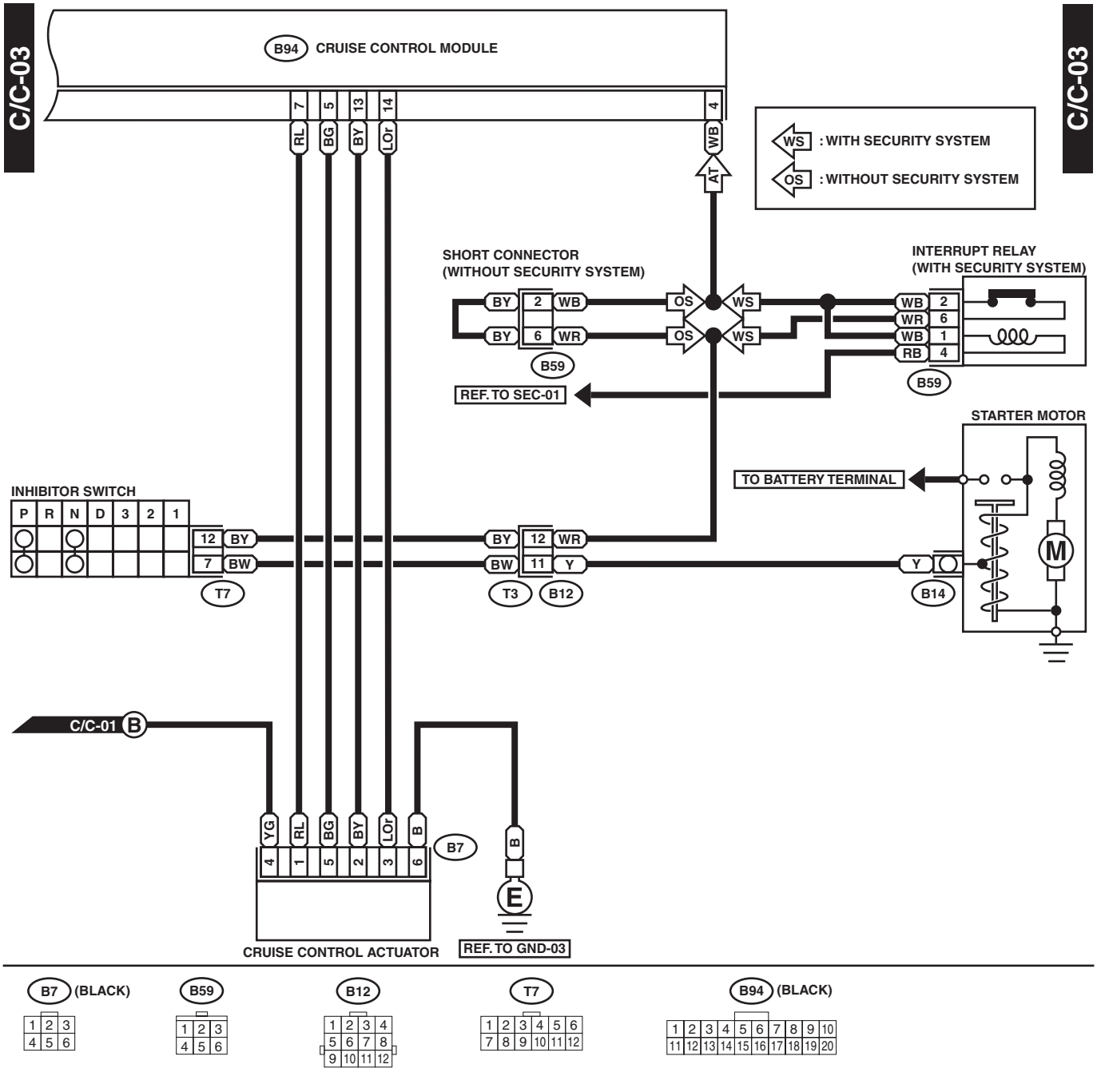
A: SCHEMATIC



WI-01123


C/C-02
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
B94 CRUISE CONTROL MODULE
C/C-02
F44
B61
C/C-01 A
VEHICLE SPEED SENSOR (MT)
B17
A: B54
B: B55
C: B56
TRANSMISSION CONTROL MODULE (AT)
TB : TURBO ENGINE MODEL
NA : NON-TURBO ENGINE MODEL
AT : AT MODEL
MT : MT MODEL
B79
CHECK CONNECTOR
REF. TO GND-01
B40
DATA LINK CONNECTOR
B209
F76
B22
E3
F60
E3
GE
GE-1
B17 : NA
B17 : TB
F44
B79 (GRAY)
B40
B22 (BROWN)
F60 (BROWN)
B94 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

WI-01124



B7 (BLACK)

1	2	3
4	5	6

B59

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	

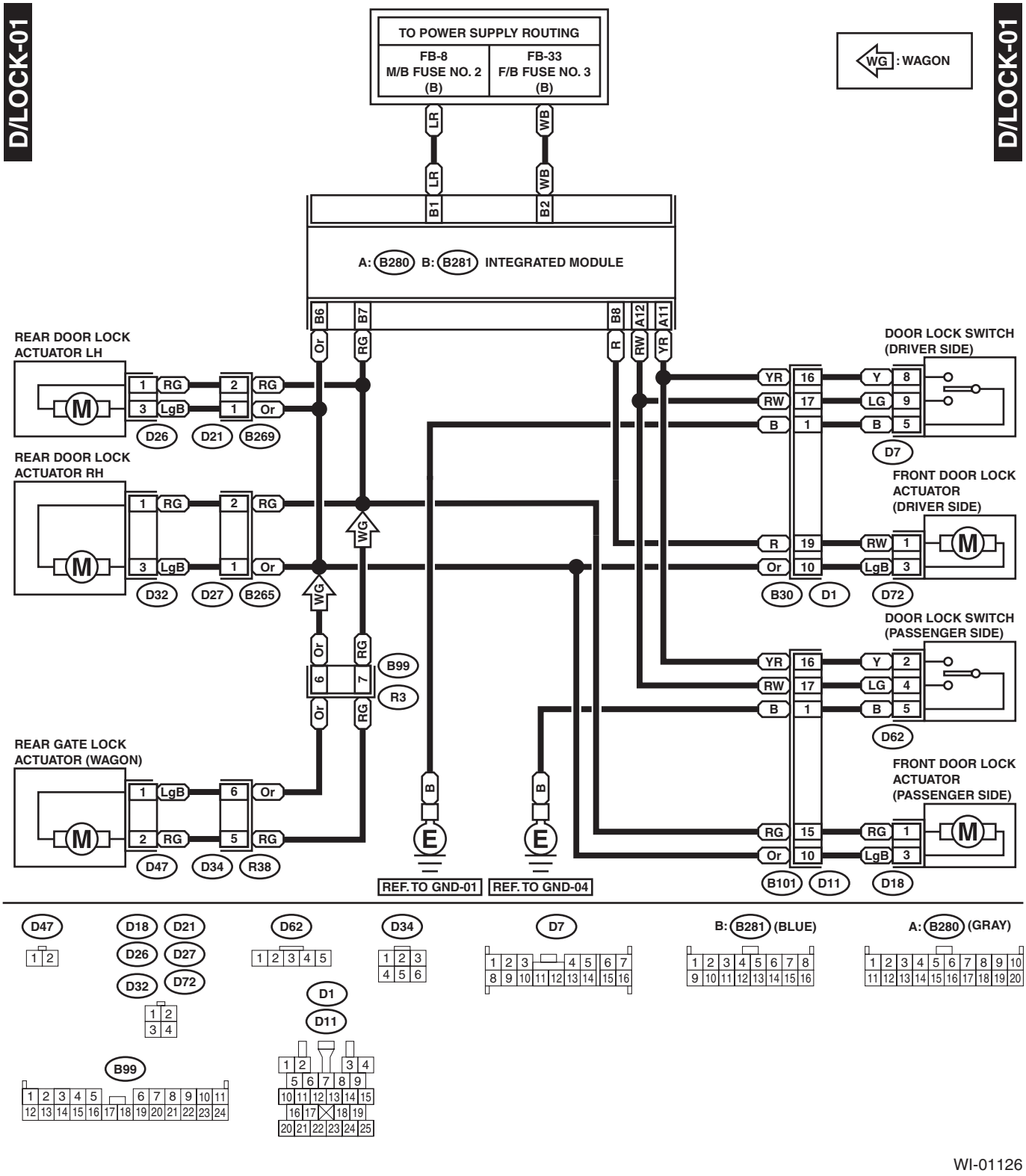
B94 (BLACK)

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

WI-01125

17.Door Lock System

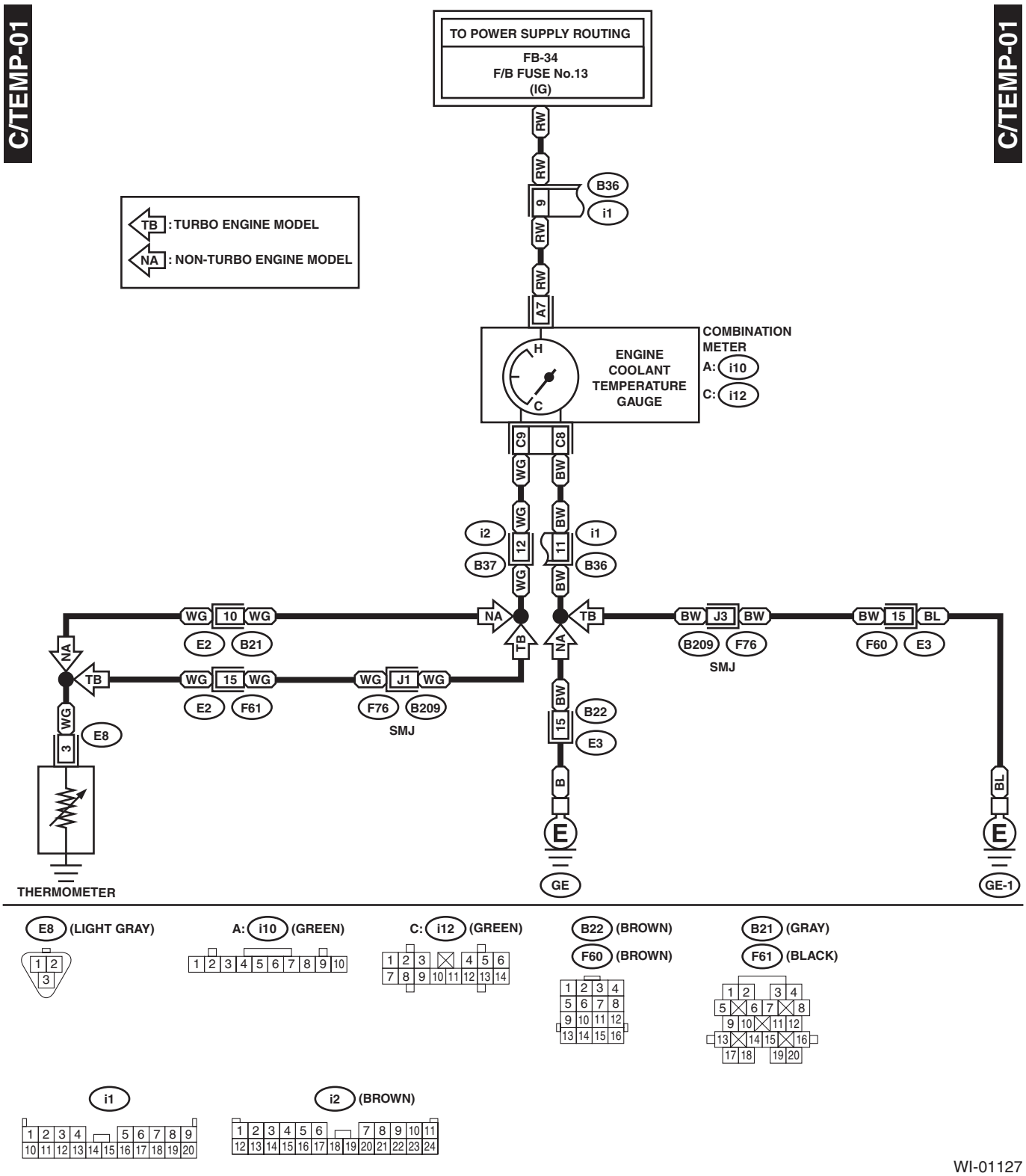
A: SCHEMATIC



WI-01126

18.Engine Coolant Temperature Gauge System

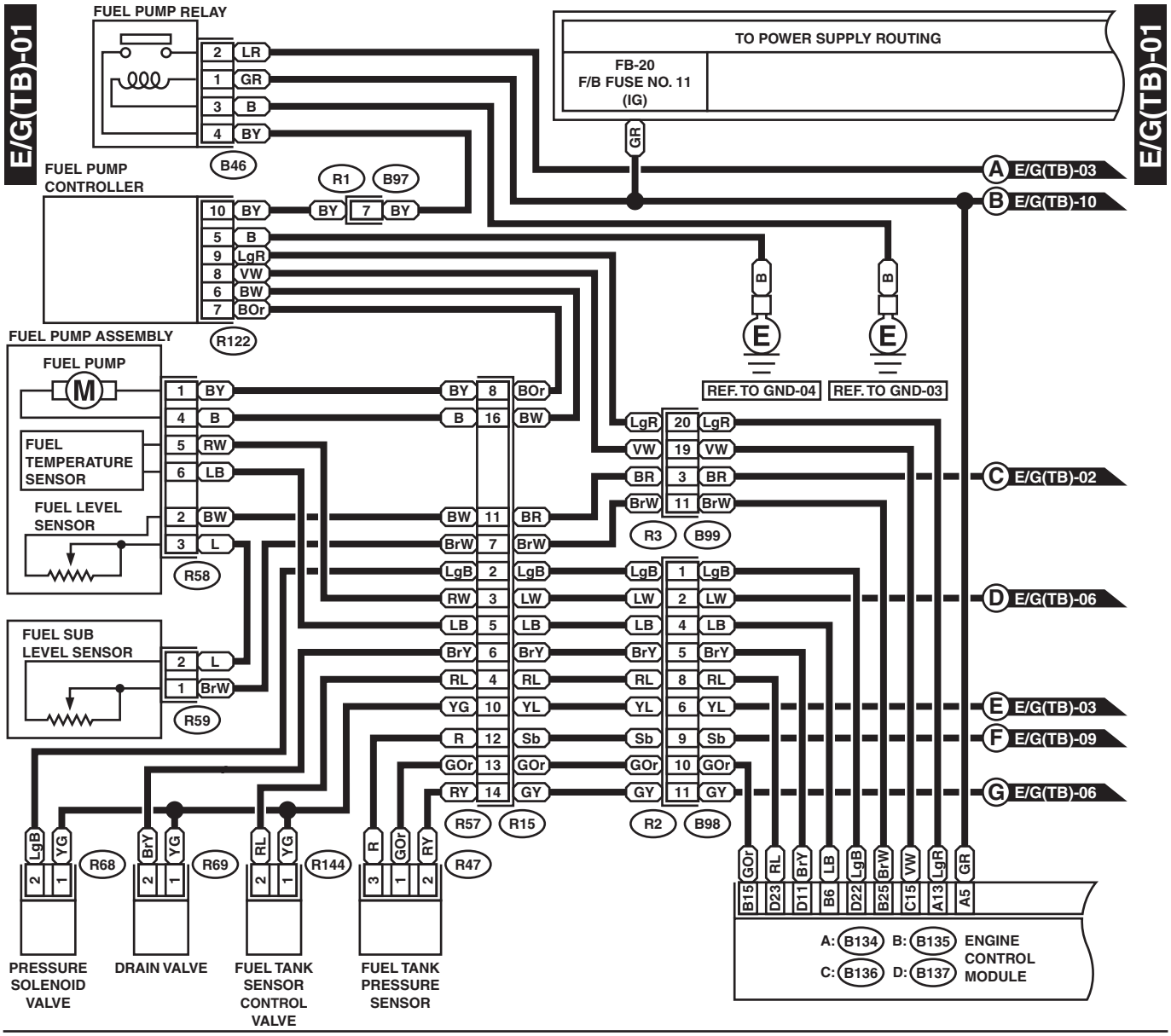
A: SCHEMATIC

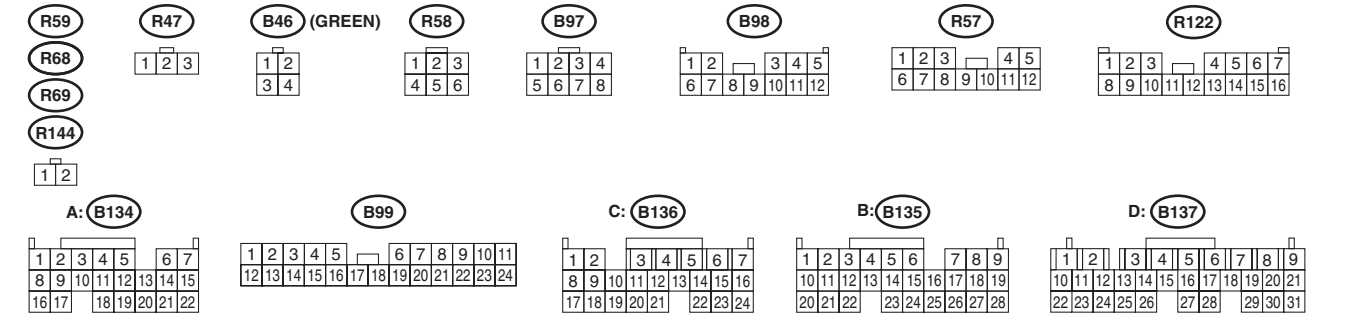


19.Engine Electrical System

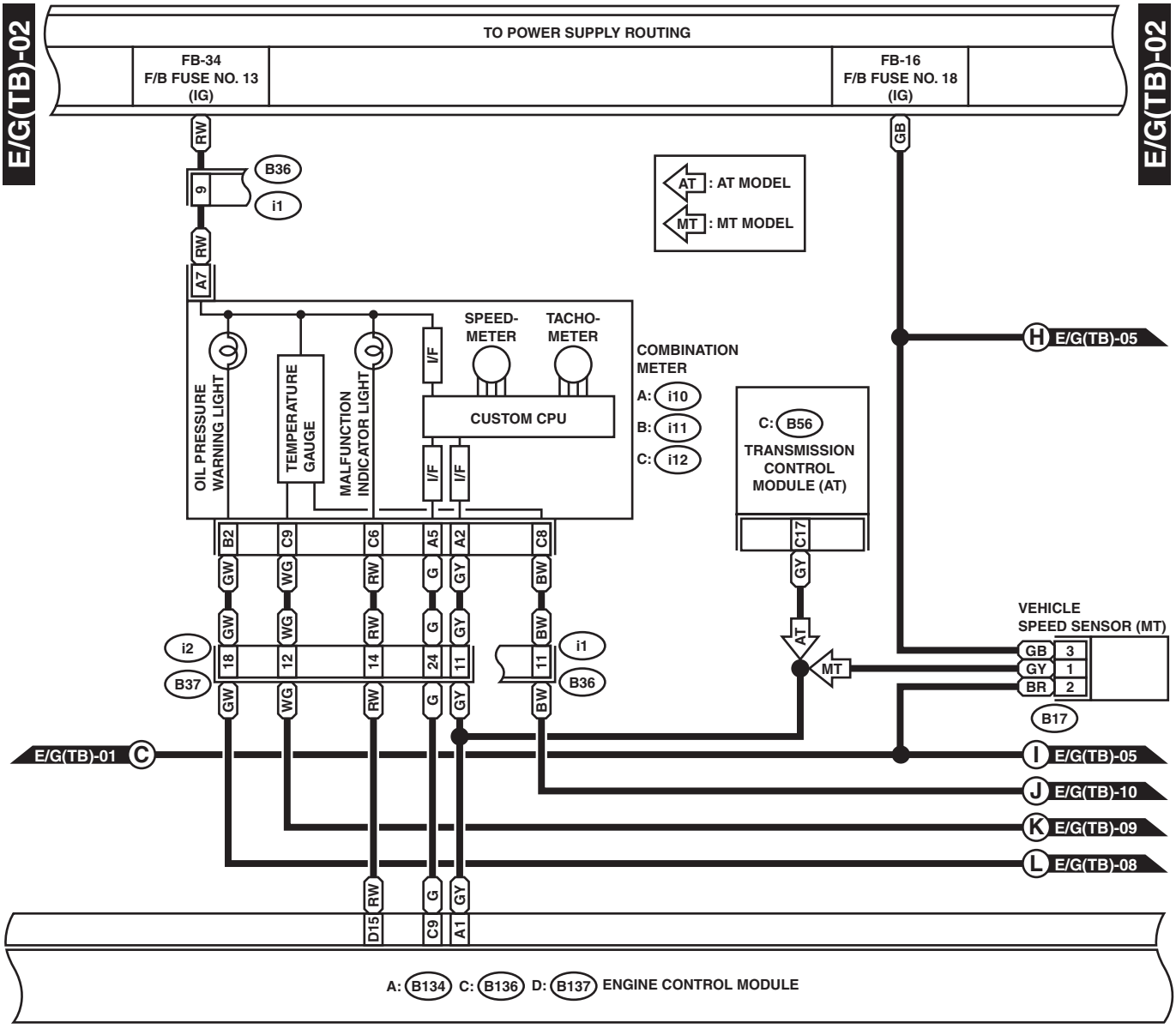
A: SCHEMATIC

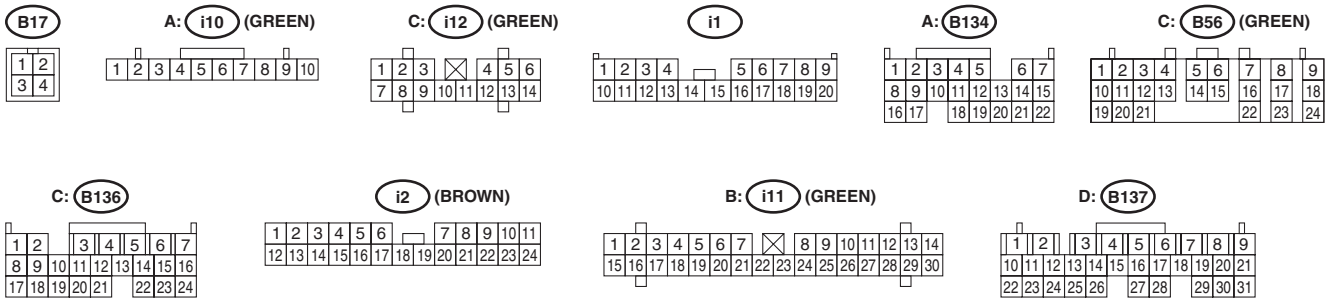
1. TURBO ENGINE MODEL



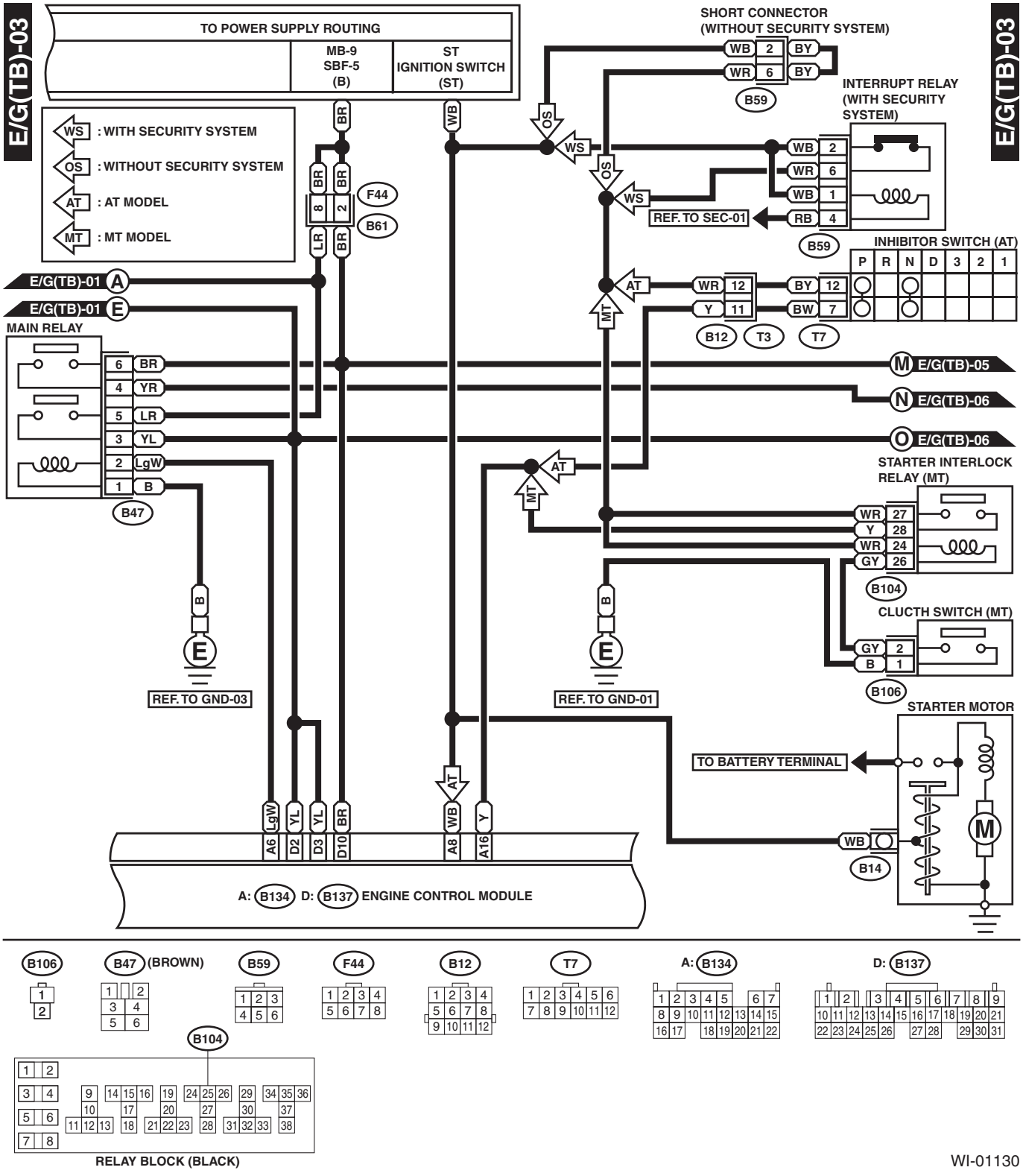


WI-01128


E/G(TB)-02
TO POWER SUPPLY ROUTING
FB-34
F/B FUSE NO. 13
(IG)
FB-16
F/B FUSE NO. 18
(IG)
E/G(TB)-02
RW
GB
B36
9
i1
RW
A7
AT : AT MODEL
MT : MT MODEL
SPEED-
METER
TACHO-
METER
COMBINATION
METER
A: i10
B: i11
C: i12
OIL PRESSURE
WARNING LIGHT
TEMPERATURE
GAUGE
MALFUNCTION
INDICATOR LIGHT
I/F
CUSTOM CPU
I/F
I/F
C: B56
TRANSMISSION
CONTROL
MODULE (AT)
H E/G(TB)-05
B2
C9
C6
A5
A2
C8
C17
GW
WG
RW
G
GY
BW
GY
VEHICLE
SPEED SENSOR (MT)
i2
B37
18
12
14
24
11
11
i1
B36
AT
MT
GB
GY
BR
3
1
2
B17
E/G(TB)-01 C
I E/G(TB)-05
J E/G(TB)-10
K E/G(TB)-09
L E/G(TB)-08
RW
G
GY
D15
C9
A1
A: B134 C: B136 D: B137 ENGINE CONTROL MODULE

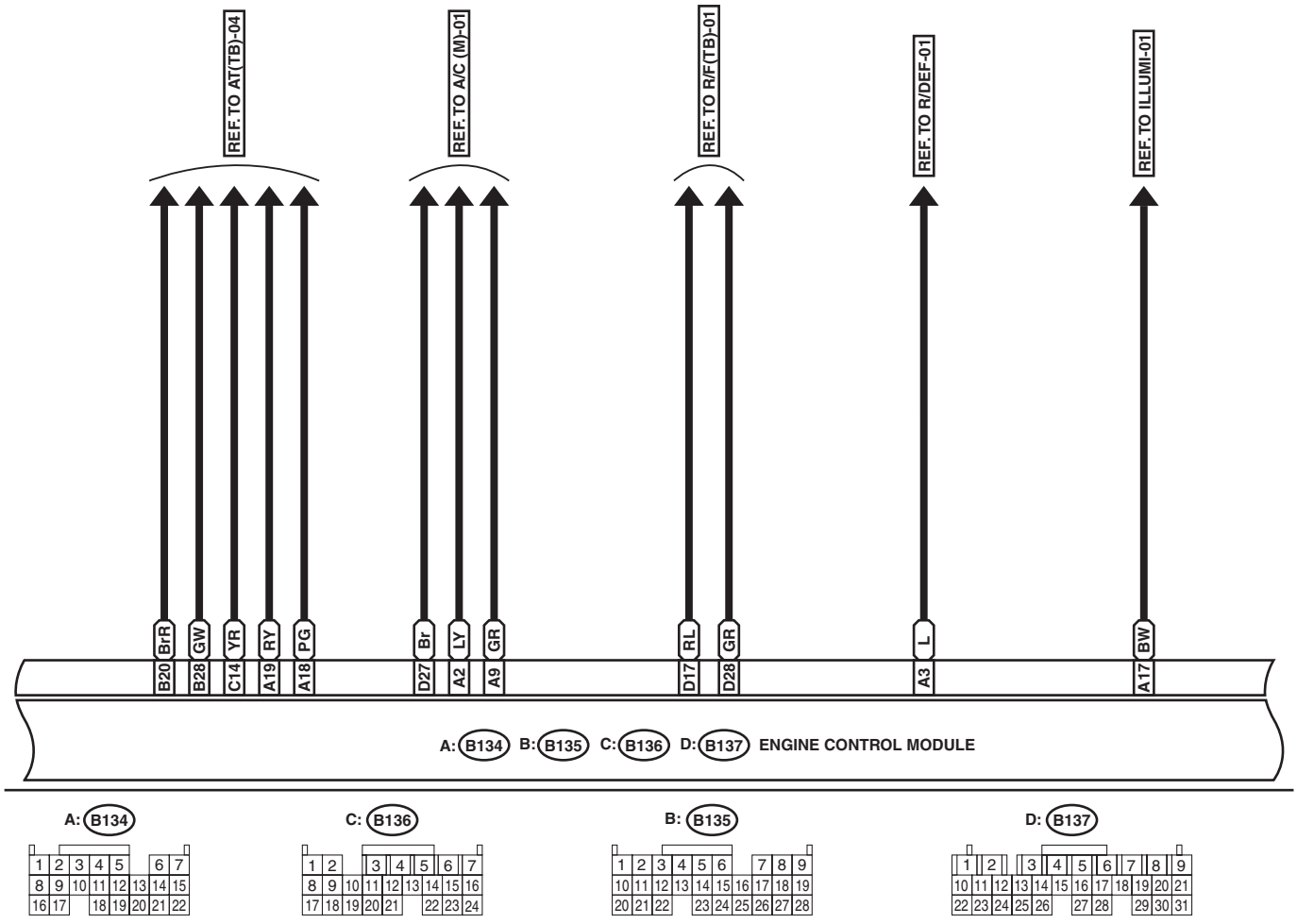

B17
A: i10 (GREEN)
C: i12 (GREEN)
i1
A: B134
C: B56 (GREEN)
C: B136
i2 (BROWN)
B: i11 (GREEN)
D: B137

WI-01129

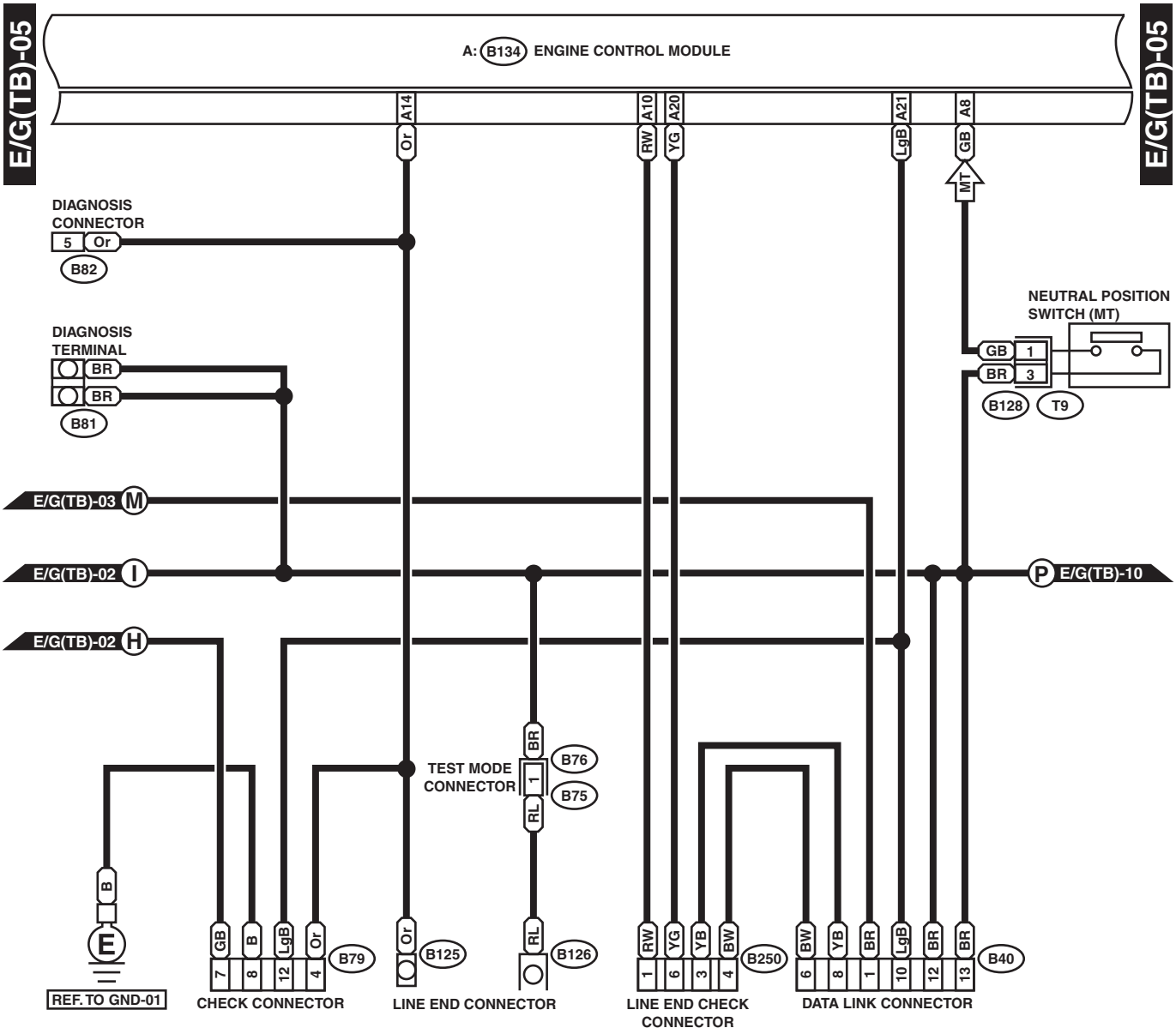

E/G(TB)-03
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
ST
IGNITION SWITCH
(ST)
WS : WITH SECURITY SYSTEM
OS : WITHOUT SECURITY SYSTEM
AT : AT MODEL
MT : MT MODEL
SHORT CONNECTOR
(WITHOUT SECURITY SYSTEM)
INTERRUPT RELAY
(WITH SECURITY
SYSTEM)
REF. TO SEC-01
INHIBITOR SWITCH (AT)
P R N D 3 2 1
E/G(TB)-01 A
E/G(TB)-01 E
MAIN RELAY
E/G(TB)-05
E/G(TB)-06
E/G(TB)-06
STARTER INTERLOCK
RELAY (MT)
CLUCTH SWITCH (MT)
STARTER MOTOR
TO BATTERY TERMINAL
REF. TO GND-03
REF. TO GND-01
A: B134 D: B137 ENGINE CONTROL MODULE
B106
B47 (BROWN)
B59
F44
B12
T7
A: B134
D: B137
B104
RELAY BLOCK (BLACK)
WI-01130

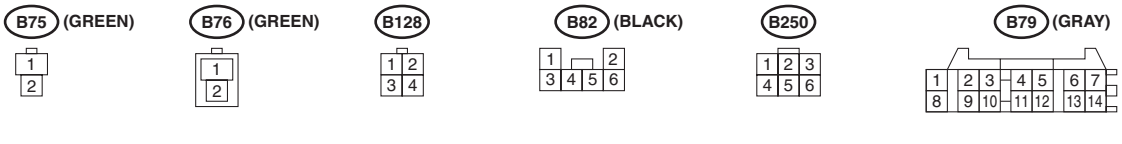
E/G(TB)-04

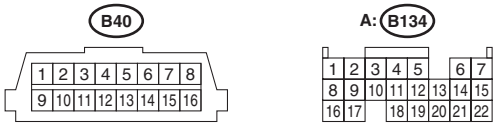
E/G(TB)-04



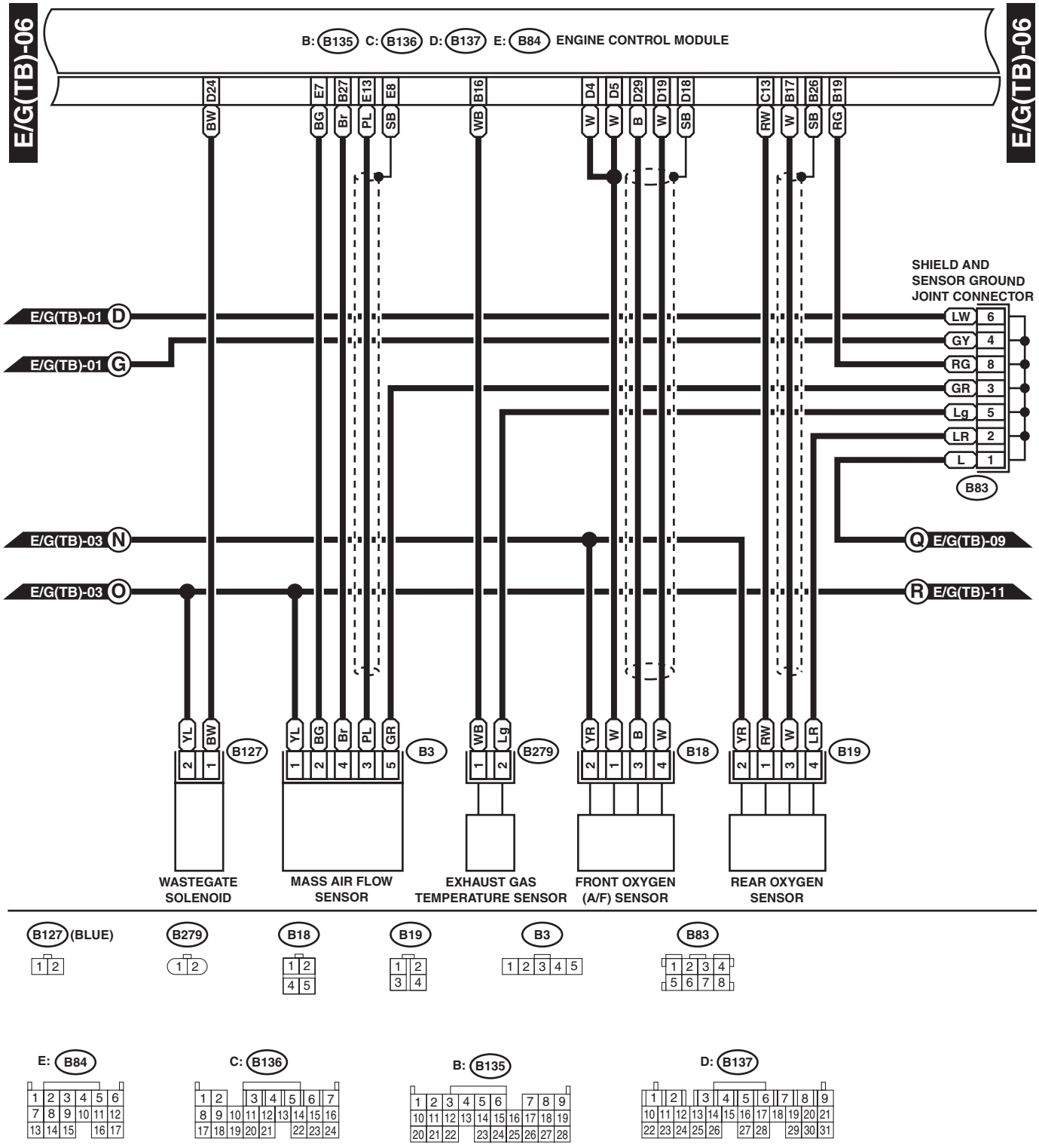
WI-02178


E/G(TB)-05
A: B134 ENGINE CONTROL MODULE
E/G(TB)-05
A14
A10
A20
A21
A8
Or
RW
YG
LgB
GB
MT
DIAGNOSIS CONNECTOR
5 Or
B82
DIAGNOSIS TERMINAL
BR
BR
B81
NEUTRAL POSITION SWITCH (MT)
GB 1
BR 3
B128
T9
E/G(TB)-03 M
E/G(TB)-02 I
E/G(TB)-02 H
P E/G(TB)-10
TEST MODE CONNECTOR
BR
1
RL
B76
B75
B
GB
B
LgB
Or
B79
Or
B125
RL
B126
RW
YG
YB
BW
B250
BW
YB
BR
LgB
BR
BR
B40
REF. TO GND-01
CHECK CONNECTOR
LINE END CONNECTOR
LINE END CHECK CONNECTOR
DATA LINK CONNECTOR

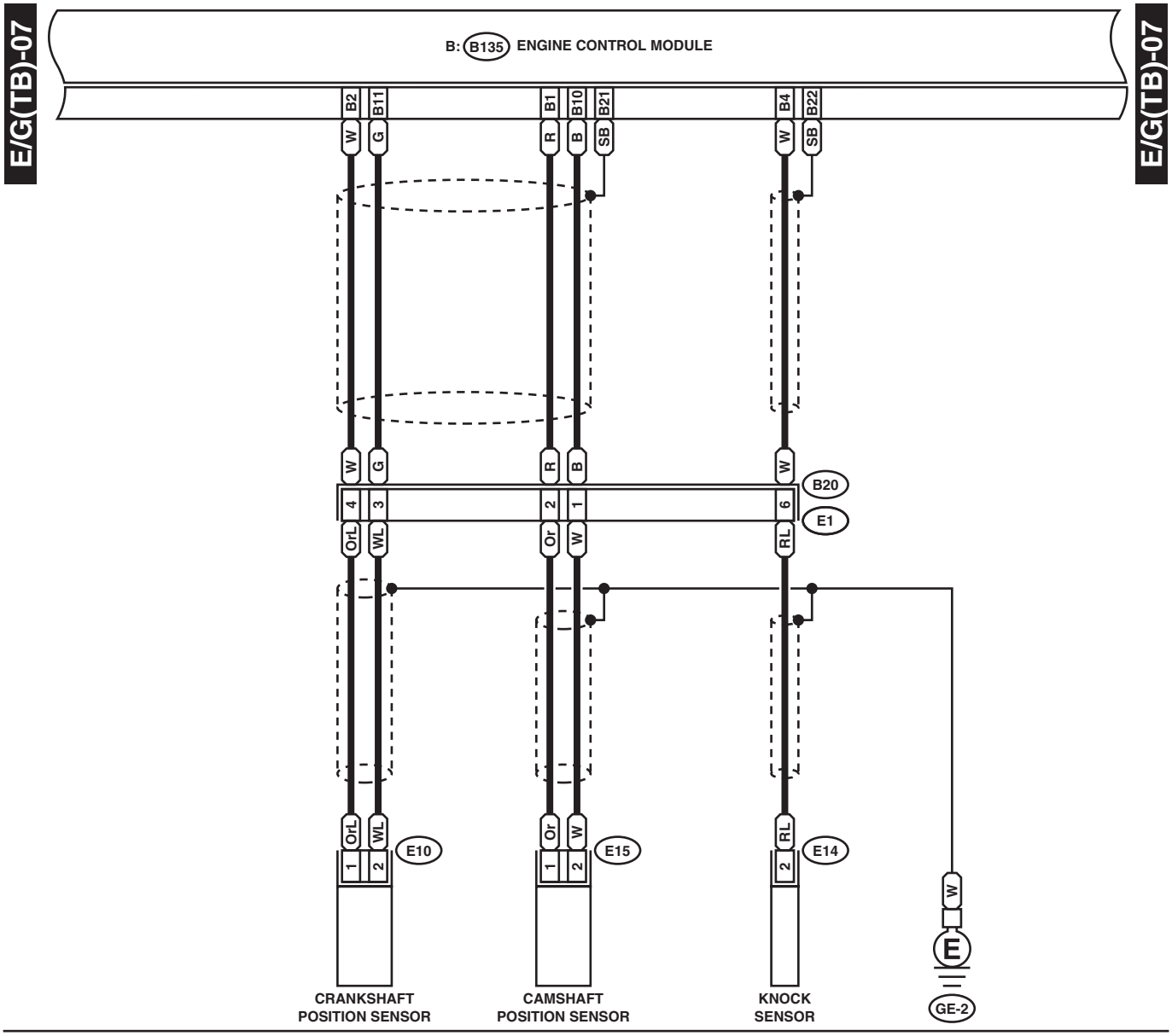

B75 (GREEN)
B76 (GREEN)
B128
B82 (BLACK)
B250
B79 (GRAY)


B40
A: B134

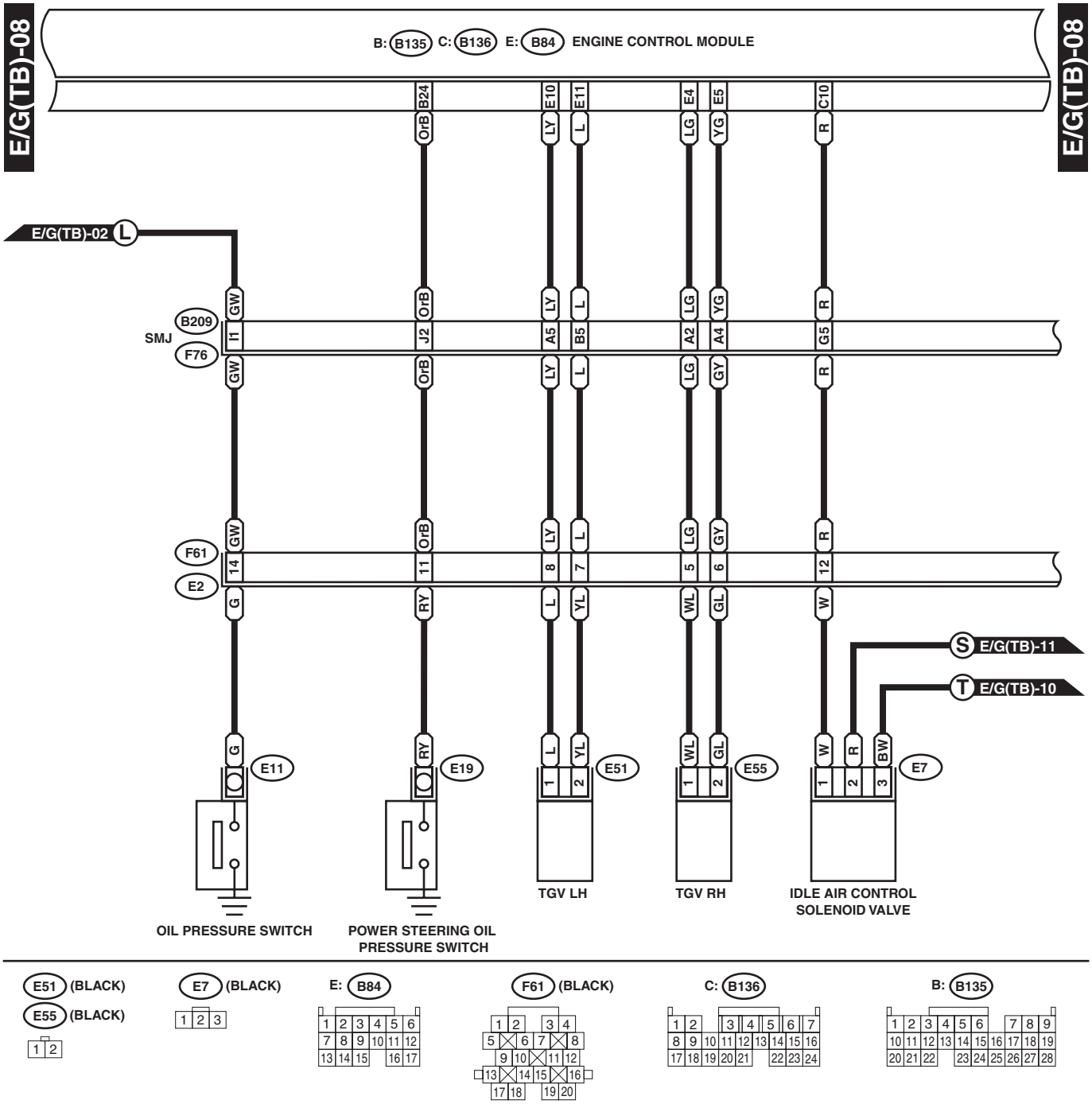
WI-01131


E/G(TB)-06
B: B135 C: B136 D: B137 E: B84 ENGINE CONTROL MODULE
E/G(TB)-06
D24 BW
E7 BG
B27 Br
E13 PL
E8 SB
B16 WB
D4 W
D5 W
D29 B
D19 W
D18 SB
C13 RW
B17 W
B26 SB
B19 RG
SHIELD AND SENSOR GROUND JOINT CONNECTOR
LW 6
GY 4
RG 8
GR 3
Lg 5
LR 2
L 1
B83
E/G(TB)-01 D
E/G(TB)-01 G
E/G(TB)-03 N
E/G(TB)-03 O
Q E/G(TB)-09
R E/G(TB)-11
B127 YL BW
B3 YL BG Br PL GR
B279 WB Lg
B18 YR W B W
B19 YR RW W LR
WASTEGATE SOLENOID
MASS AIR FLOW SENSOR
EXHAUST GAS TEMPERATURE SENSOR
FRONT OXYGEN (A/F) SENSOR
REAR OXYGEN SENSOR
B127 (BLUE)
B279
B18
B19
B3
B83
E: B84
C: B136
B: B135
D: B137

WI-01132

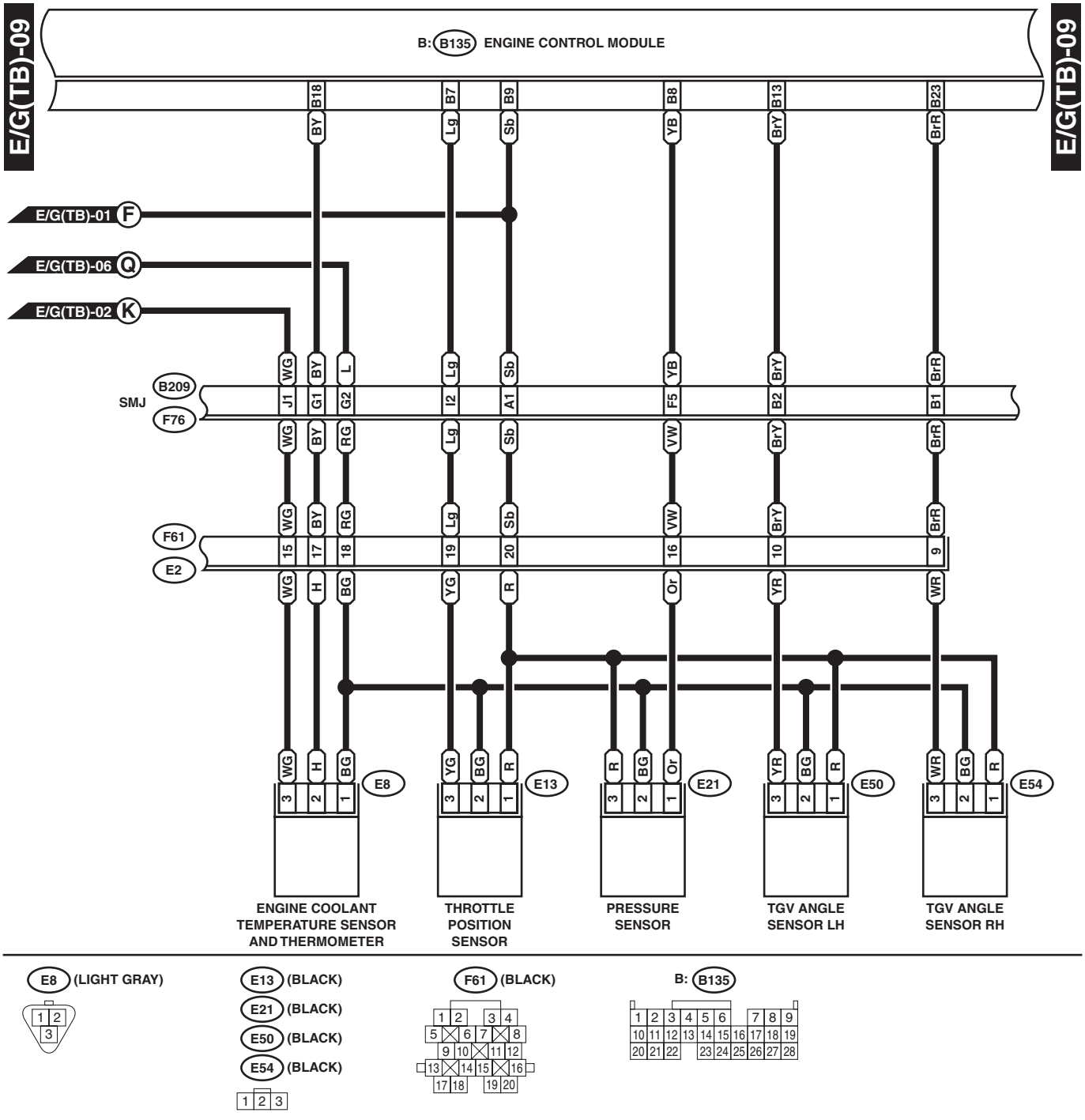

E/G(TB)-07
E/G(TB)-07
B: B135 ENGINE CONTROL MODULE
B2
B11
B1
B10
B21
B4
B22
W
G
R
B
SB
W
SB
W
G
R
B
W
B20
4
3
2
1
6
E1
OrL
WL
Or
W
RL
OrL
WL
Or
W
RL
E10
E15
E14
1
2
1
2
2
W
E
GE-2
CRANKSHAFT POSITION SENSOR
CAMSHAFT POSITION SENSOR
KNOCK SENSOR
E10 (LIGHT GRAY)
E14 (GRAY)
E15 (LIGHT GRAY)
1 2
E1 (LIGHT GRAY)
1 2 3 4
5 6 7
8 9 10
B: B135
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

WI-02179

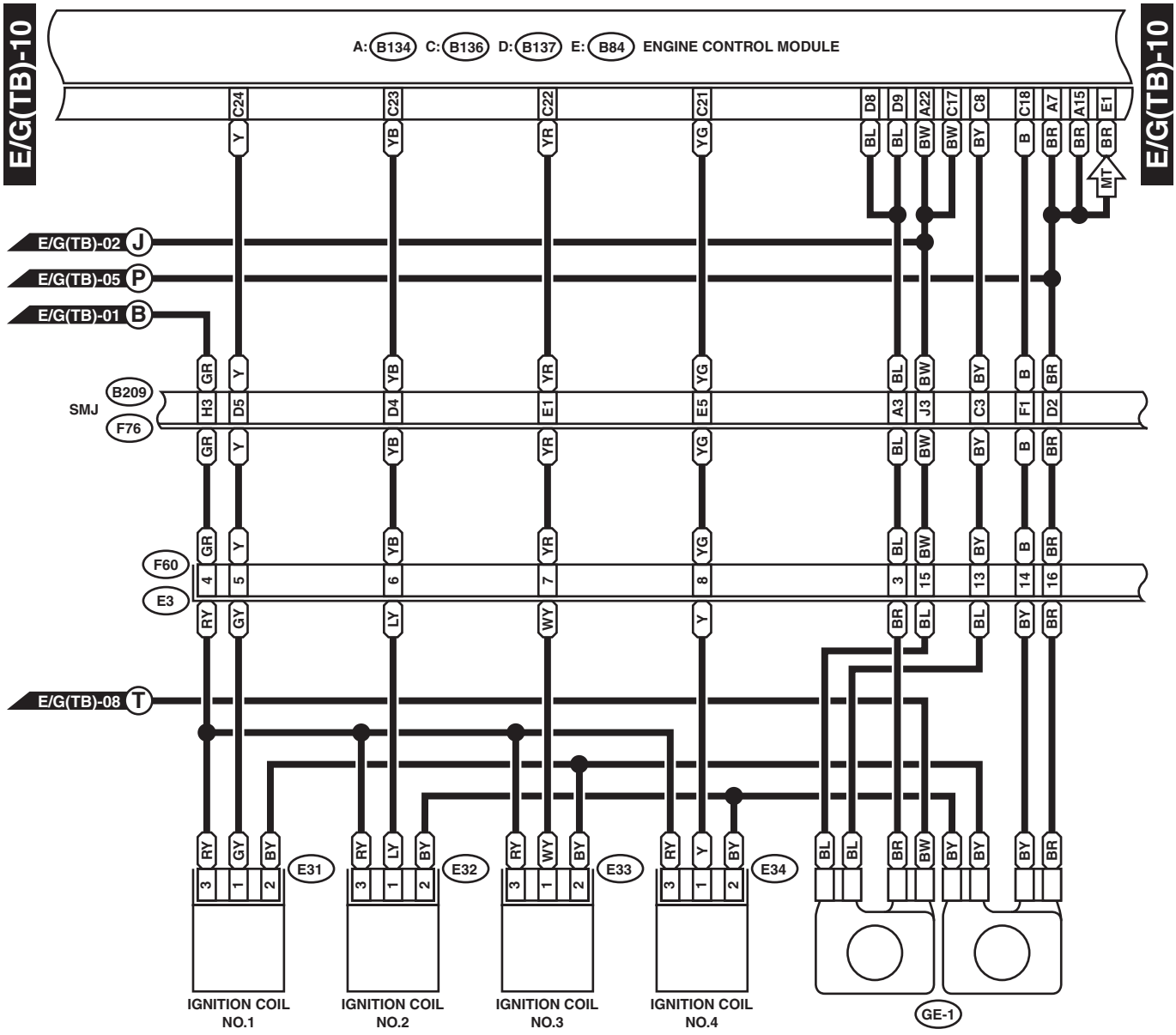

E/G(TB)-08
B: B135 C: B136 E: B84 ENGINE CONTROL MODULE
E/G(TB)-08
B24
E10
E11
E4
E5
C10
OrB
LY
L
LG
YG
R
E/G(TB)-02 L
B209
SMJ
F76
I1
J2
A5
B5
A2
A4
G5
GW
GY
F61
E2
14
11
8
7
5
6
12
G
RY
WL
GL
W
S E/G(TB)-11
T E/G(TB)-10
E11
E19
E51
E55
E7
1
2
3
BW
OIL PRESSURE SWITCH
POWER STEERING OIL PRESSURE SWITCH
TGV LH
TGV RH
IDLE AIR CONTROL SOLENOID VALVE

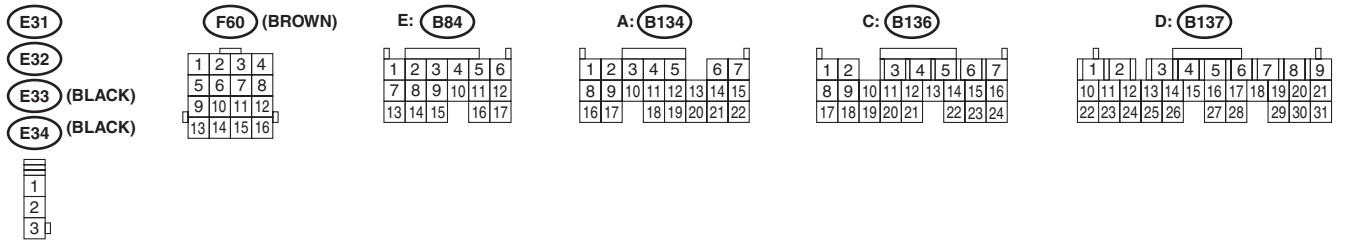
E51 (BLACK)
E55 (BLACK)
E7 (BLACK)
E: B84
F61 (BLACK)
C: B136
B: B135

WI-02180

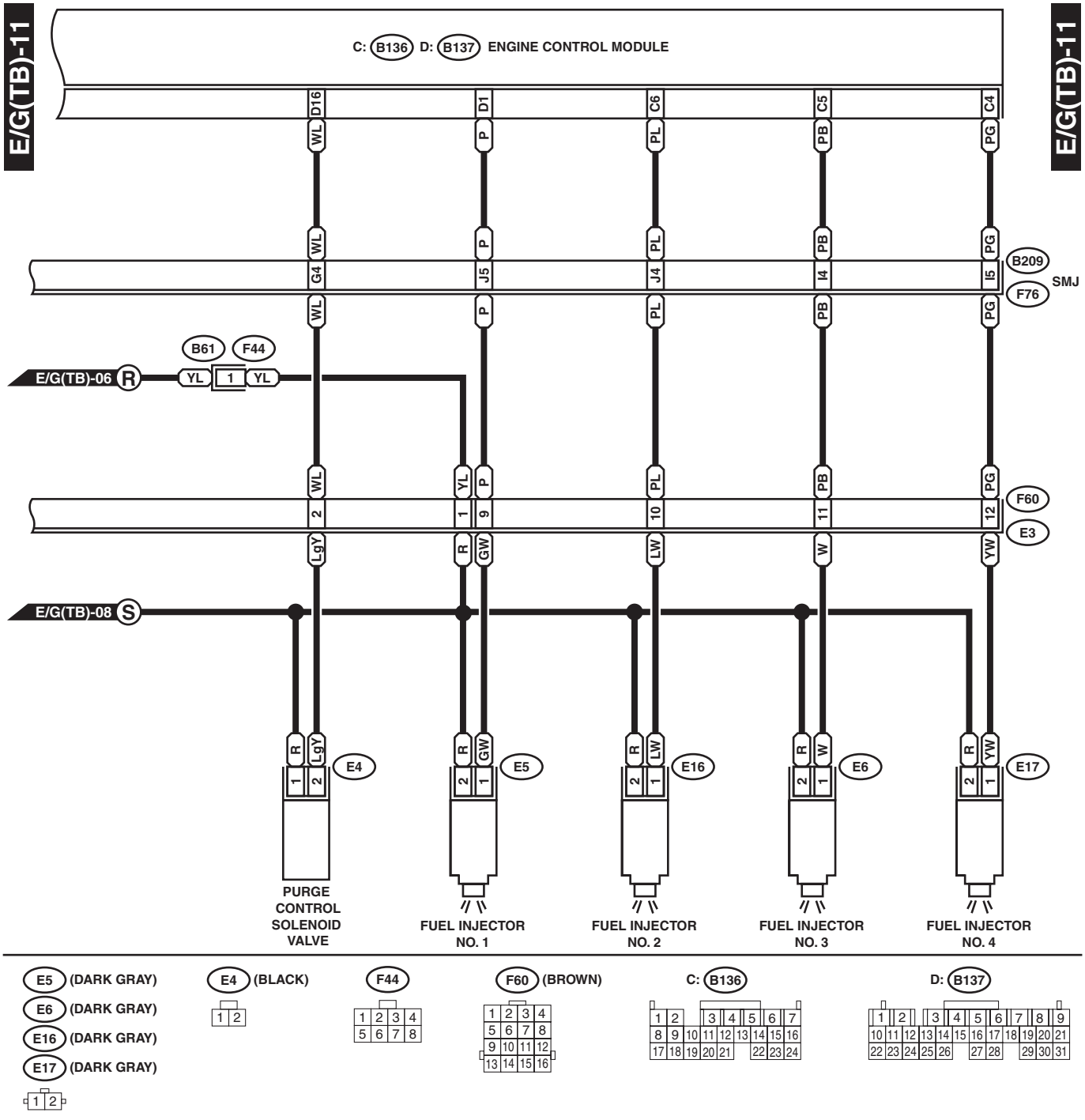

E/G(TB)-09
E/G(TB)-09
B: B135 ENGINE CONTROL MODULE
B18 B7 B9 B8 B13 B23
BY Lg Sb YB BrY BrR
E/G(TB)-01 F
E/G(TB)-06 Q
E/G(TB)-02 K
B209
SMJ
F76
J1 G1 G2 I2 A1 F5 B2 B1
WG BY L Lg Sb YB BrY BrR
WG BY RG Lg Sb VW BrY BrR
F61
E2
15 17 18 19 20 16 10 9
WG BY RG Lg Sb VW BrY BrR
WG H BG YG R Or YR WR
E8
E13
E21
E50
E54
3 2 1
WG H BG
YG BG R
R BG Or
YR BG R
WR BG R
ENGINE COOLANT TEMPERATURE SENSOR AND THERMOMETER
THROTTLE POSITION SENSOR
PRESSURE SENSOR
TGV ANGLE SENSOR LH
TGV ANGLE SENSOR RH
E8 (LIGHT GRAY)
E13 (BLACK)
E21 (BLACK)
E50 (BLACK)
E54 (BLACK)
F61 (BLACK)
B: B135

WI-02181


E/G(TB)-10
A: B134 C: B136 D: B137 E: B84 ENGINE CONTROL MODULE
E/G(TB)-10
C24 C23 C22 C21 D8 D9 A22 C17 C8 C18 A7 A15 E1
Y YB YR YG BL BL BW BW BY B BR BR BR
MT
E/G(TB)-02 J
E/G(TB)-05 P
E/G(TB)-01 B
B209
SMJ
F76
GR Y YB YR YG BL BW BY B BR
H3 D5 D4 E1 E5 A3 J3 C3 F1 D2
F60
E3
4 5 6 7 8 3 15 13 14 16
RY GY LY WY Y BR BL BL BY BR
E/G(TB)-08 T
RY GY BY E31
RY LY BY E32
RY WY BY E33
RY Y BY E34
BL BL BR BW BY BY BY BR
3 1 2
IGNITION COIL NO.1
IGNITION COIL NO.2
IGNITION COIL NO.3
IGNITION COIL NO.4
GE-1

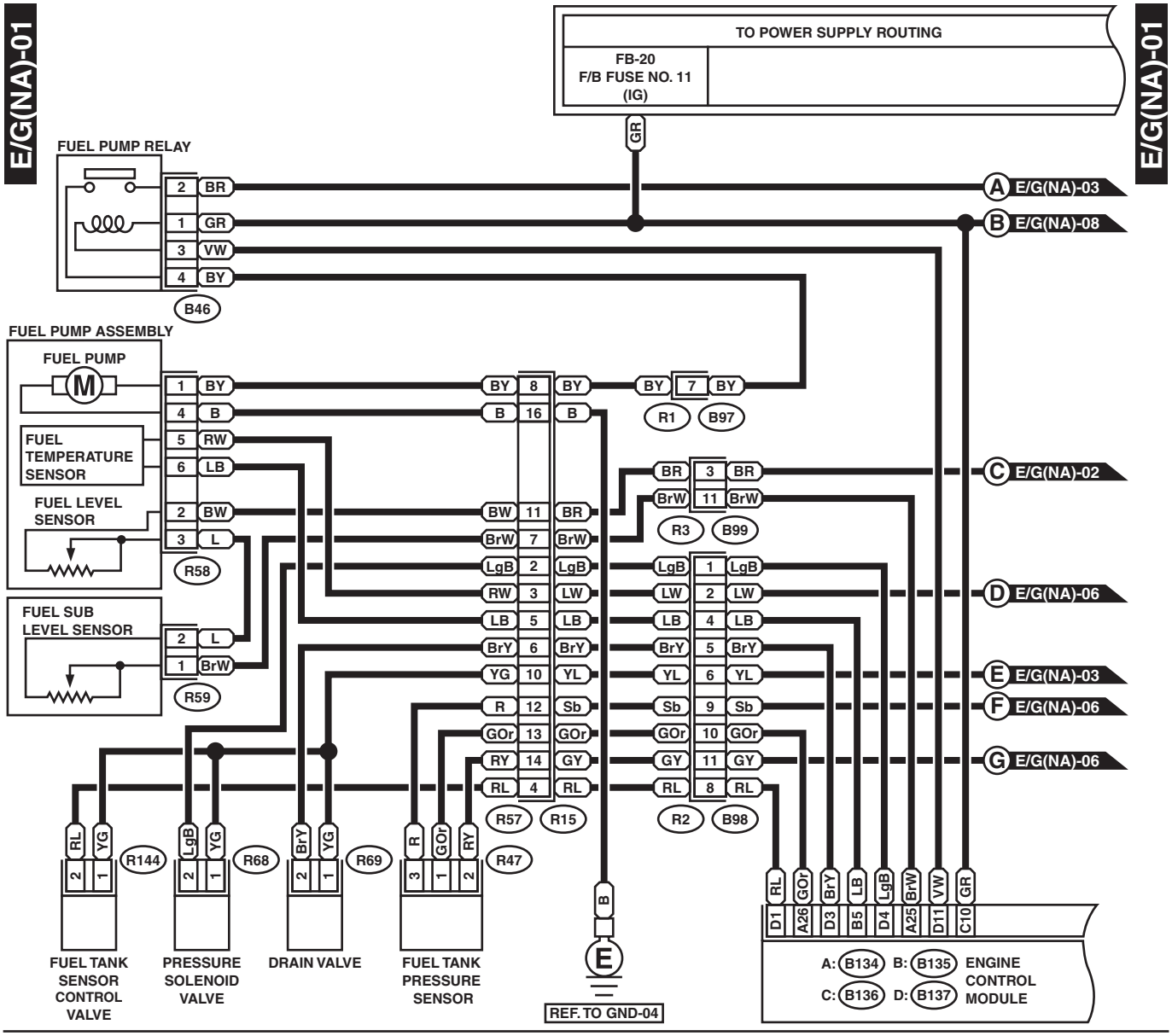

E31
E32
E33 (BLACK)
E34 (BLACK)
F60 (BROWN)
E: B84
A: B134
C: B136
D: B137

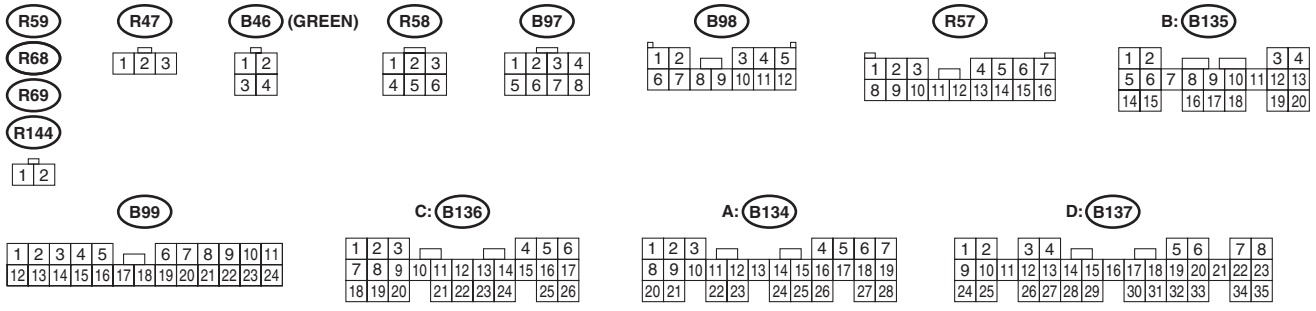
WI-02182


E/G(TB)-11
E/G(TB)-11
C: B136 D: B137 ENGINE CONTROL MODULE
D16
D1
C6
C5
C4
WL
P
PL
PB
PG
G4
J5
J4
I4
I5
B209
SMJ
F76
B61
F44
E/G(TB)-06 R
YL
1
YL
2
9
10
11
12
F60
E3
LgY
R
GW
LW
W
YW
E/G(TB)-08 S
E4
E5
E16
E6
E17
PURGE CONTROL SOLENOID VALVE
FUEL INJECTOR NO. 1
FUEL INJECTOR NO. 2
FUEL INJECTOR NO. 3
FUEL INJECTOR NO. 4
E5 (DARK GRAY)
E6 (DARK GRAY)
E16 (DARK GRAY)
E17 (DARK GRAY)
E4 (BLACK)
F44
F60 (BROWN)
C: B136
D: B137

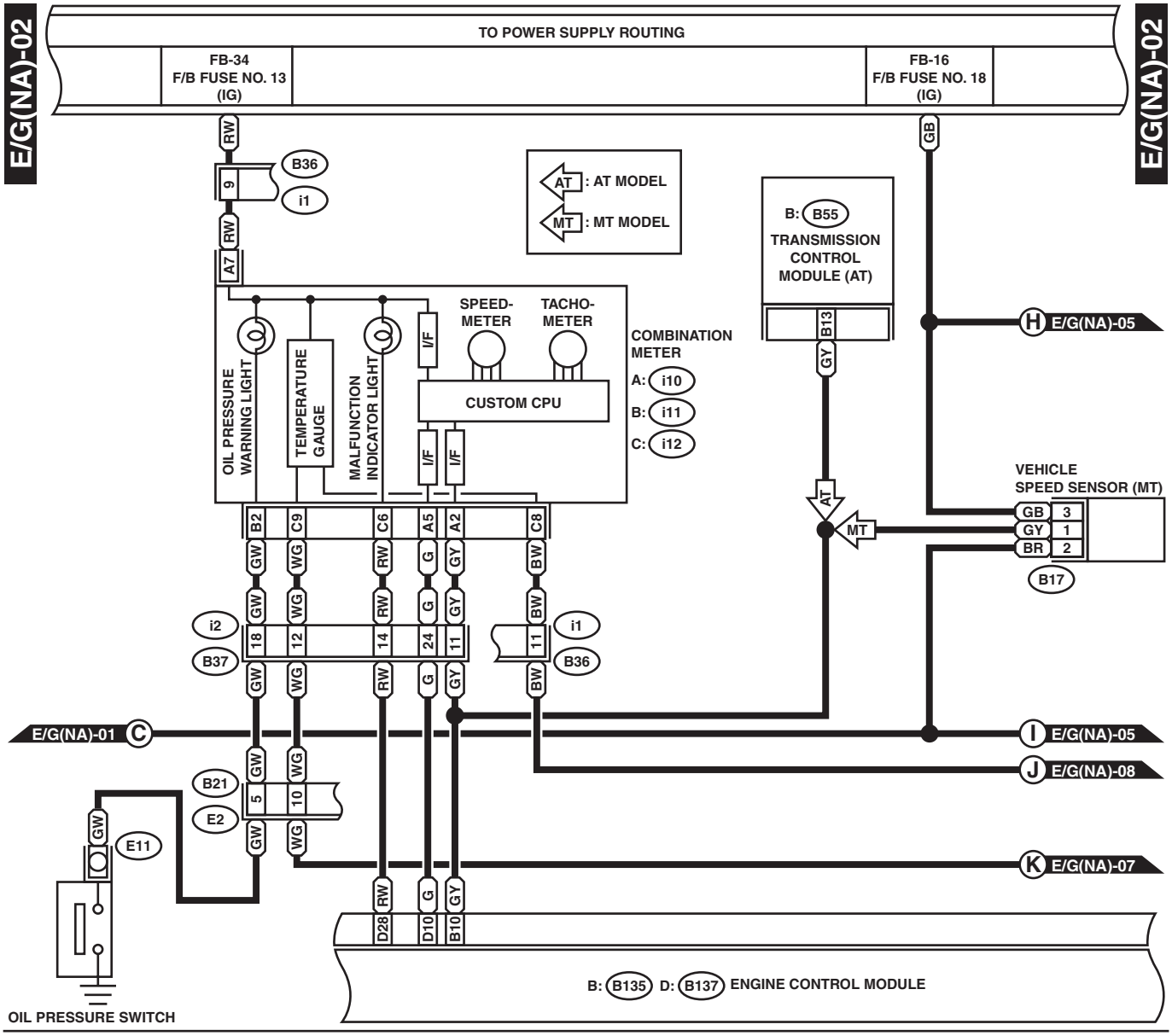
WI-02183

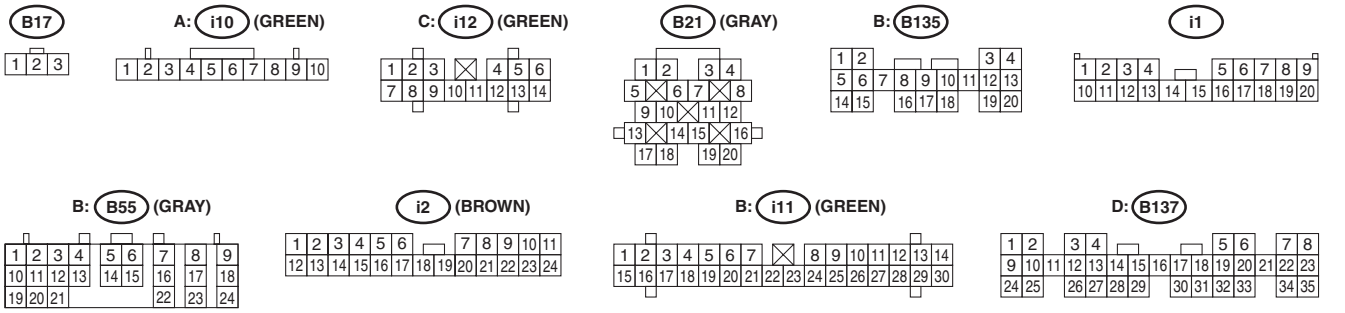
2. NON-TURBO ENGINE MODEL



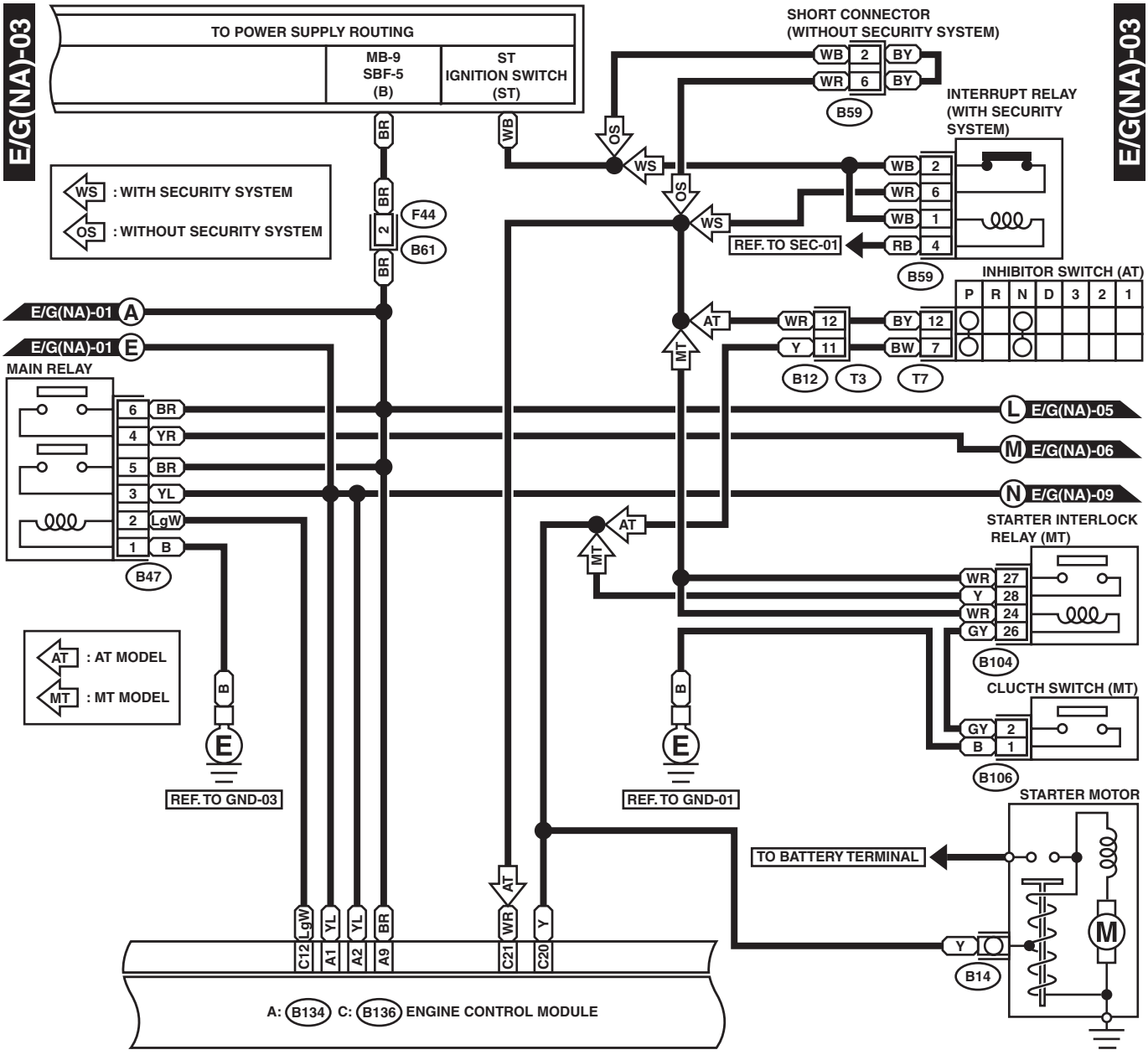


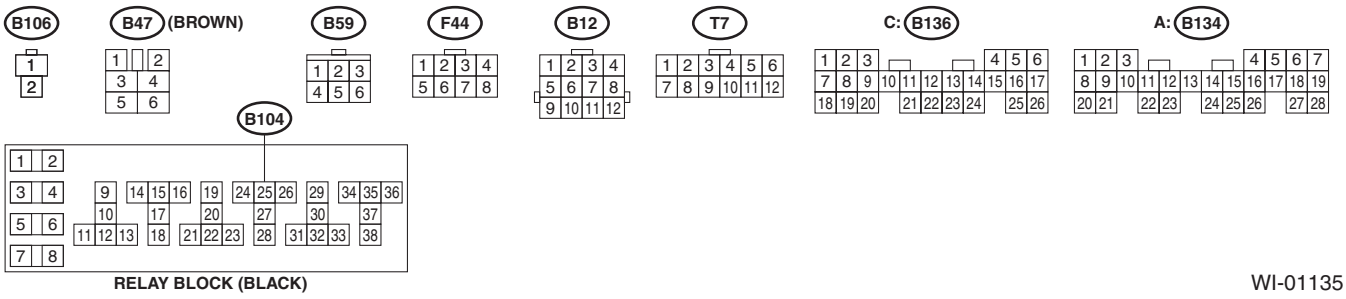
WI-01133


E/G(NA)-02
TO POWER SUPPLY ROUTING
FB-34
F/B FUSE NO. 13
(IG)
FB-16
F/B FUSE NO. 18
(IG)
E/G(NA)-02
AT : AT MODEL
MT : MT MODEL
B: B55
TRANSMISSION CONTROL MODULE (AT)
B36
i1
A7
SPEED-METER
TACHO-METER
COMBINATION METER
A: i10
B: i11
C: i12
OIL PRESSURE WARNING LIGHT
TEMPERATURE GAUGE
MALFUNCTION INDICATOR LIGHT
I/F
CUSTOM CPU
VEHICLE SPEED SENSOR (MT)
GB
GY
BR
B17
AT
MT
B2
C9
C6
A5
A2
C8
B13
H E/G(NA)-05
i2
B37
i1
B36
E/G(NA)-01 C
I E/G(NA)-05
J E/G(NA)-08
B21
E2
E11
K E/G(NA)-07
D28
D10
B10
B: B135 D: B137 ENGINE CONTROL MODULE
OIL PRESSURE SWITCH


B17
A: i10 (GREEN)
C: i12 (GREEN)
B21 (GRAY)
B: B135
i1
B: B55 (GRAY)
i2 (BROWN)
B: i11 (GREEN)
D: B137

WI-01134

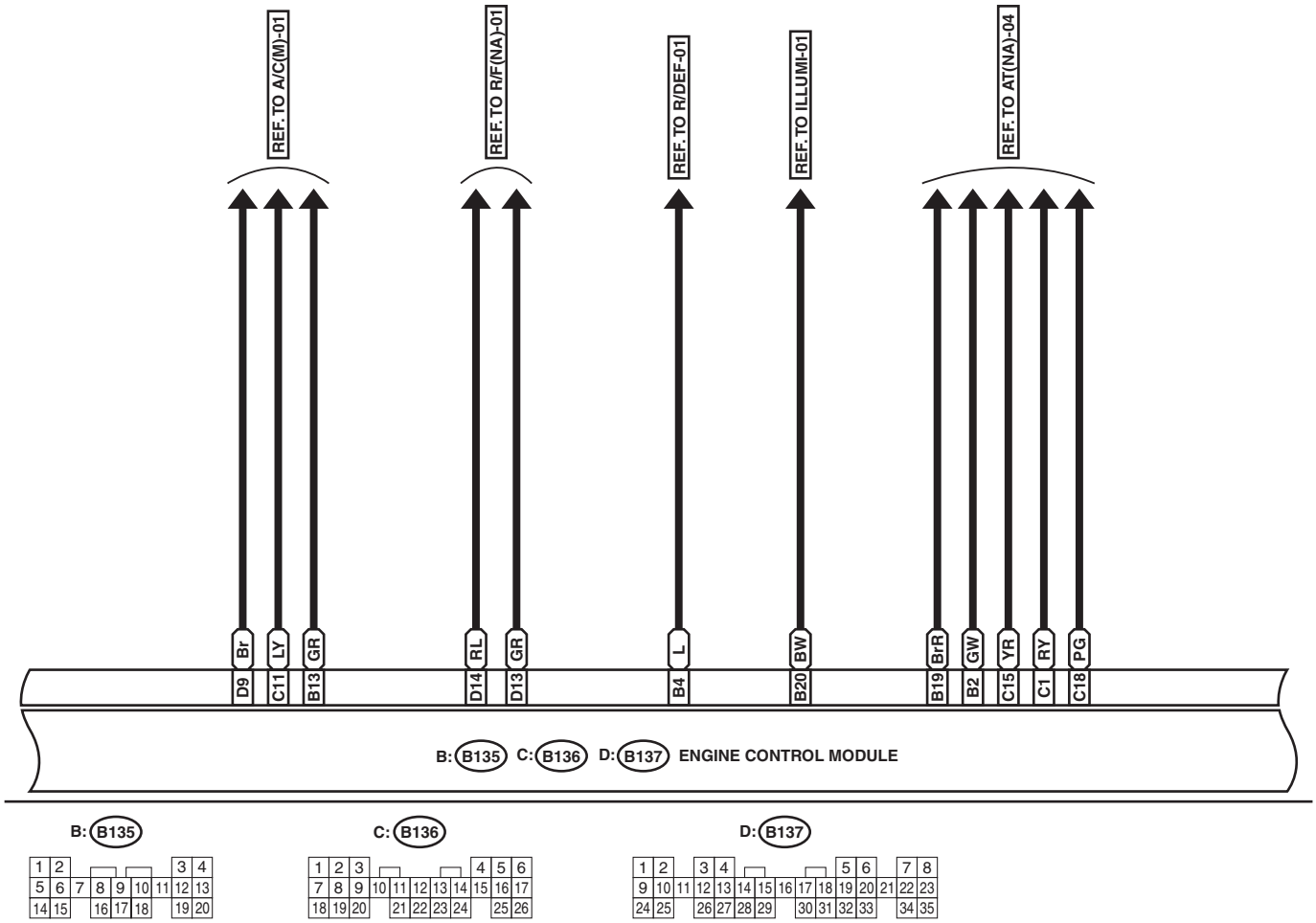

E/G(NA)-03
TO POWER SUPPLY ROUTING
MB-9
SBF-5
(B)
ST
IGNITION SWITCH
(ST)
WS : WITH SECURITY SYSTEM
OS : WITHOUT SECURITY SYSTEM
SHORT CONNECTOR
(WITHOUT SECURITY SYSTEM)
INTERRUPT RELAY
(WITH SECURITY
SYSTEM)
REF. TO SEC-01
INHIBITOR SWITCH (AT)
P R N D 3 2 1
E/G(NA)-01 A
E/G(NA)-01 E
MAIN RELAY
E/G(NA)-05
E/G(NA)-06
E/G(NA)-09
STARTER INTERLOCK
RELAY (MT)
AT : AT MODEL
MT : MT MODEL
CLUCTH SWITCH (MT)
REF. TO GND-03
REF. TO GND-01
STARTER MOTOR
TO BATTERY TERMINAL
A: B134 C: B136 ENGINE CONTROL MODULE


B106
B47 (BROWN)
B59
F44
B12
T7
C: B136
A: B134
B104
RELAY BLOCK (BLACK)

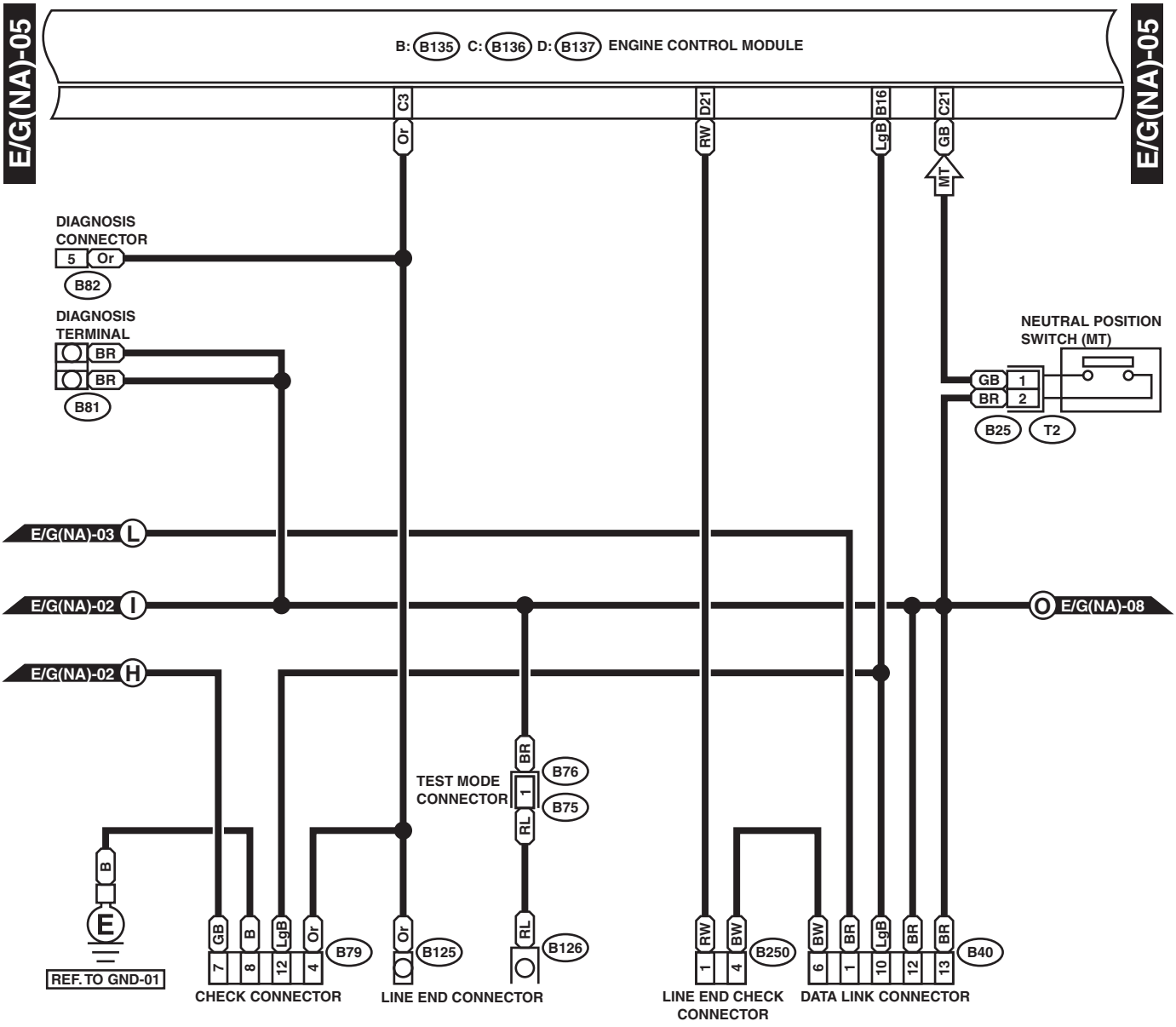
WI-01135

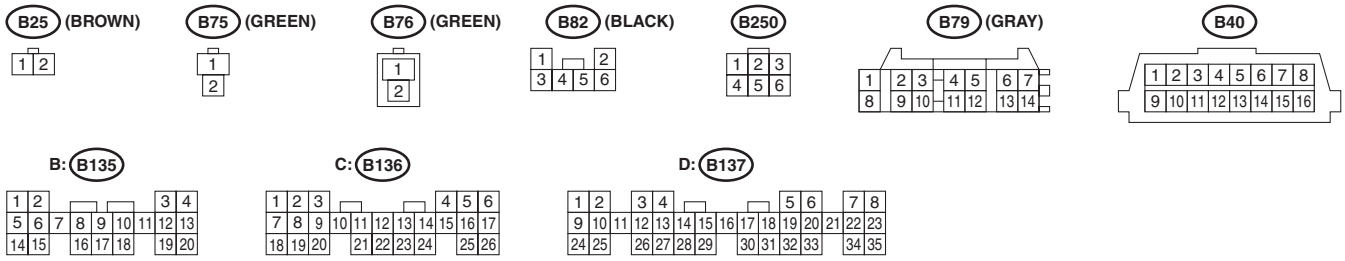
E/G(NA)-04

E/G(NA)-04

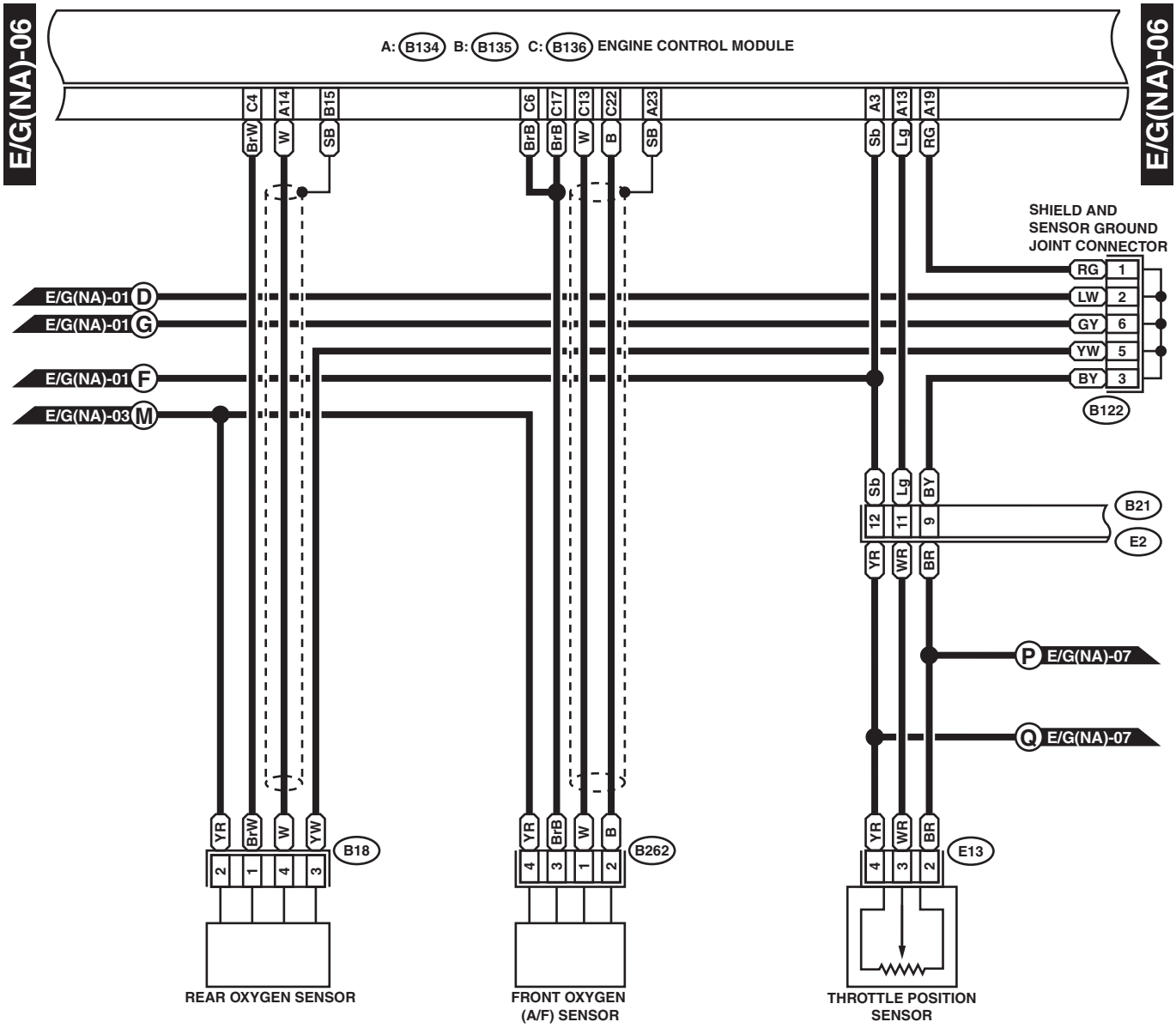


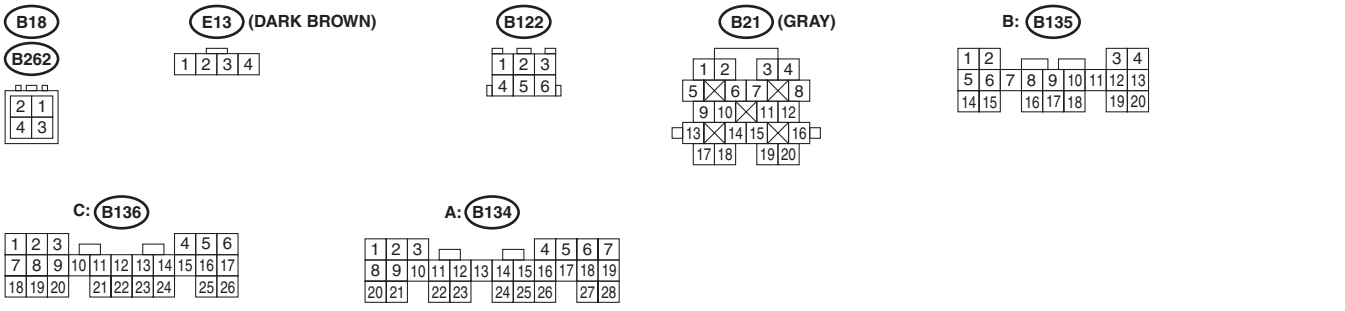
WI-01136


E/G(NA)-05
B: B135 C: B136 D: B137 ENGINE CONTROL MODULE
C3
D21
B16
C21
Or
RW
LgB
GB
MT
DIAGNOSIS CONNECTOR
5 Or
B82
DIAGNOSIS TERMINAL
BR
BR
B81
NEUTRAL POSITION SWITCH (MT)
GB 1
BR 2
B25
T2
E/G(NA)-03 L
E/G(NA)-02 I
E/G(NA)-02 H
O E/G(NA)-08
TEST MODE CONNECTOR
BR
1
RL
B76
B75
B
E
REF. TO GND-01
GB
B
LgB
Or
7
8
12
4
B79
Or
B125
RL
B126
CHECK CONNECTOR
LINE END CONNECTOR
RW
BW
1
4
B250
BW
BR
LgB
BR
BR
6
1
10
12
13
B40
LINE END CHECK CONNECTOR
DATA LINK CONNECTOR

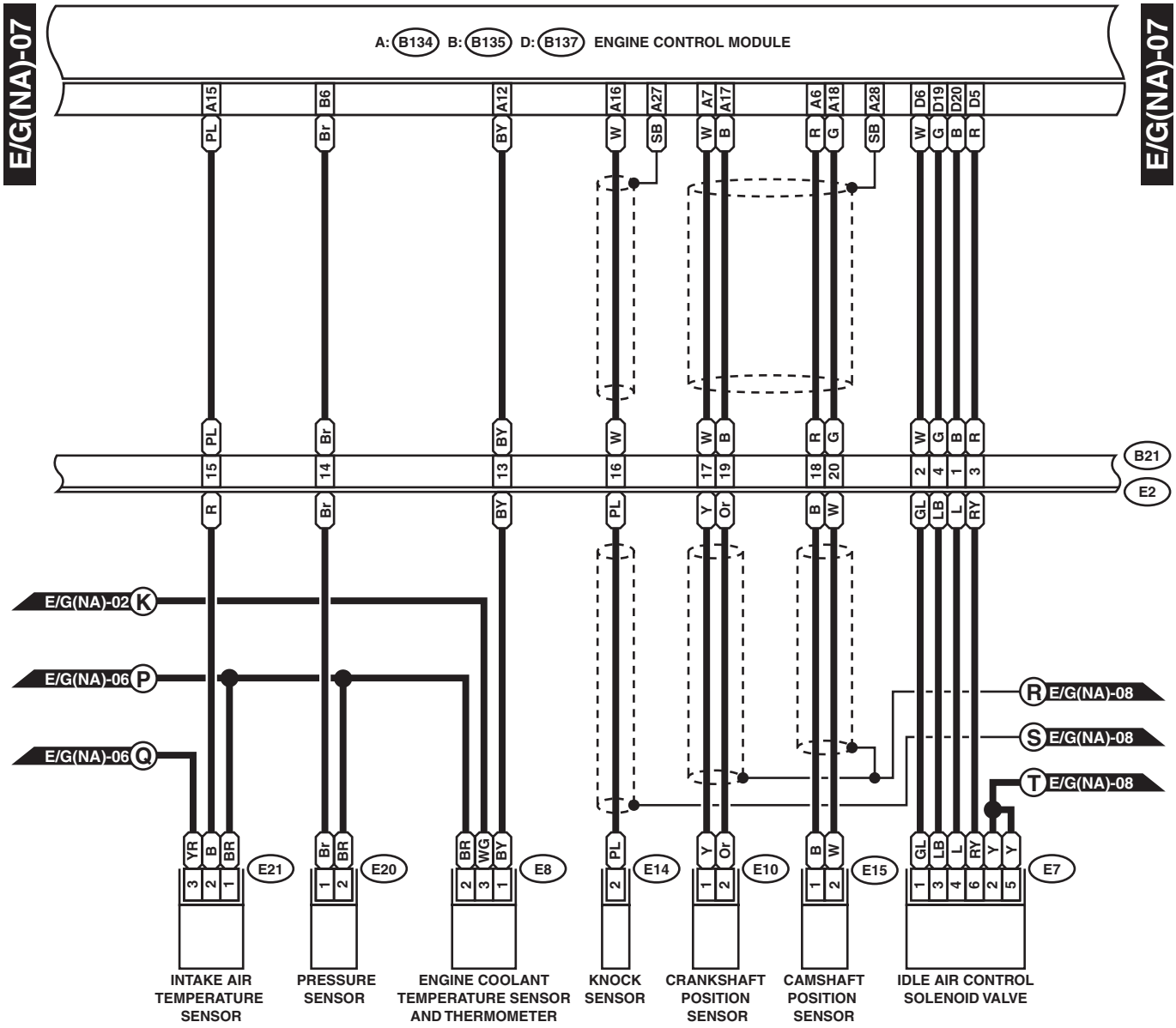

B25 (BROWN)
B75 (GREEN)
B76 (GREEN)
B82 (BLACK)
B250
B79 (GRAY)
B40
B: B135
C: B136
D: B137

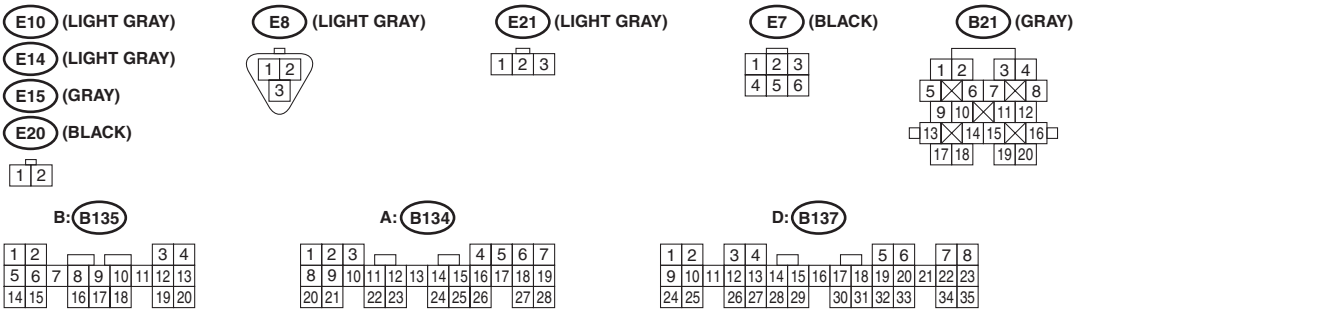
WI-01137


E/G(NA)-06
A: B134 B: B135 C: B136 ENGINE CONTROL MODULE
E/G(NA)-06
C4 A14 B15 C6 C17 C13 C22 A23 A3 A13 A19
BrW W SB BrB BrB W B SB Sb Lg RG
SHIELD AND SENSOR GROUND JOINT CONNECTOR
RG 1
LW 2
GY 6
YW 5
BY 3
B122
E/G(NA)-01 D
E/G(NA)-01 G
E/G(NA)-01 F
E/G(NA)-03 M
Sb Lg BY
12 11 9
B21
E2
YR WR BR
P E/G(NA)-07
Q E/G(NA)-07
YR BrW W YW
B18
2 1 4 3
YR BrB W B
B262
4 3 1 2
YR WR BR
E13
4 3 2
REAR OXYGEN SENSOR
FRONT OXYGEN (A/F) SENSOR
THROTTLE POSITION SENSOR

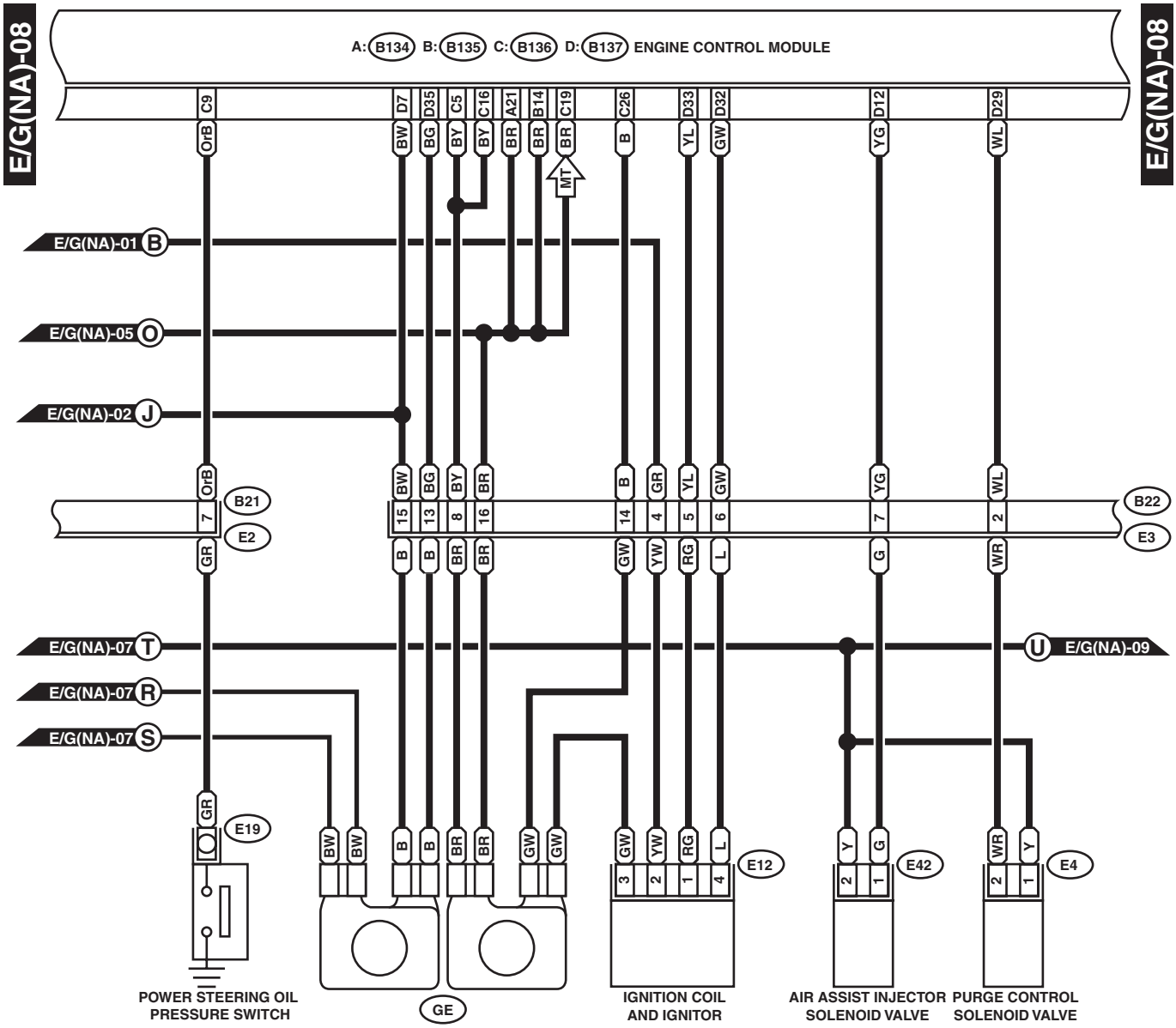

B18
B262
2 1
4 3
E13 (DARK BROWN)
1 2 3 4
B122
1 2 3
4 5 6
B21 (GRAY)
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
17 18 19 20
B: B135
1 2 3 4
5 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20
C: B136
1 2 3 4 5 6
7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26
A: B134
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16 17 18 19
20 21 22 23 24 25 26 27 28

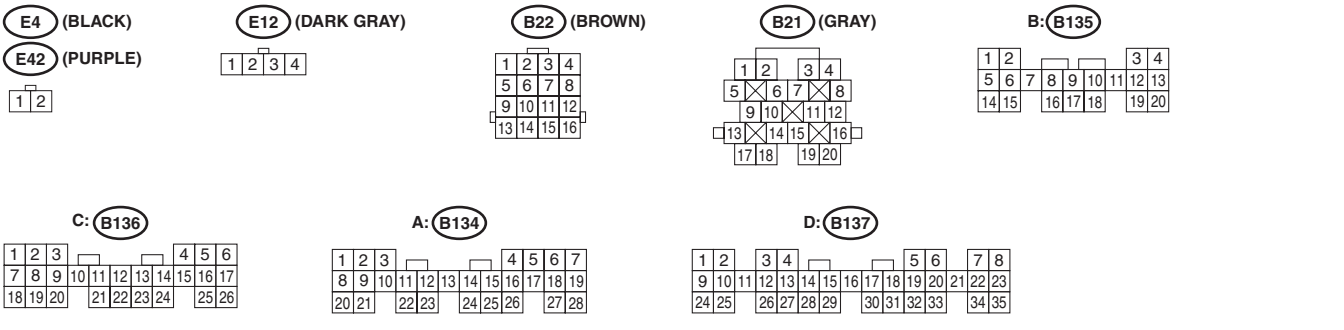
WI-01138


E/G(NA)-07
A: B134 B: B135 D: B137 ENGINE CONTROL MODULE
E/G(NA)-07
B21
E2
E/G(NA)-02 K
E/G(NA)-06 P
E/G(NA)-06 Q
R E/G(NA)-08
S E/G(NA)-08
T E/G(NA)-08
E21
E20
E8
E14
E10
E15
E7
INTAKE AIR TEMPERATURE SENSOR
PRESSURE SENSOR
ENGINE COOLANT TEMPERATURE SENSOR AND THERMOMETER
KNOCK SENSOR
CRANKSHAFT POSITION SENSOR
CAMSHAFT POSITION SENSOR
IDLE AIR CONTROL SOLENOID VALVE

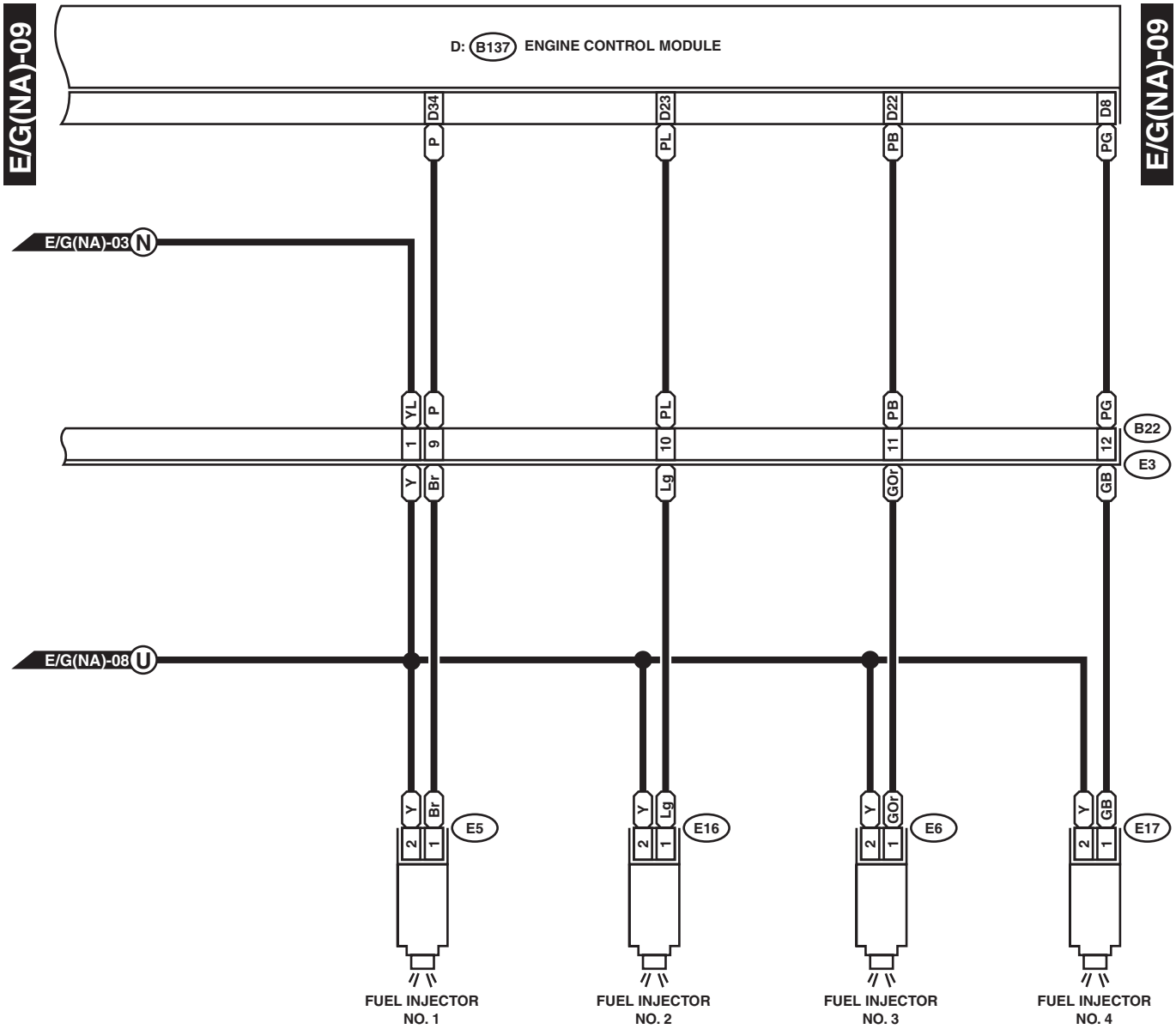

E10 (LIGHT GRAY)
E14 (LIGHT GRAY)
E15 (GRAY)
E20 (BLACK)
E8 (LIGHT GRAY)
E21 (LIGHT GRAY)
E7 (BLACK)
B21 (GRAY)
B: B135
A: B134
D: B137

WI-01139


E/G(NA)-08
A: B134 B: B135 C: B136 D: B137 ENGINE CONTROL MODULE
E/G(NA)-08
C9 D7 D35 C5 C16 A21 B14 C19 C26 D33 D32 D12 D29
OrB BW BG BY BY BR BR BR B YL GW YG WL
MT
E/G(NA)-01 B
E/G(NA)-05 O
E/G(NA)-02 J
B21
E2
B22
E3
E/G(NA)-07 T
E/G(NA)-07 R
E/G(NA)-07 S
U E/G(NA)-09
E19
E12
E42
E4
POWER STEERING OIL PRESSURE SWITCH
GE
IGNITION COIL AND IGNITOR
AIR ASSIST INJECTOR SOLENOID VALVE
PURGE CONTROL SOLENOID VALVE


E4 (BLACK)
E42 (PURPLE)
E12 (DARK GRAY)
B22 (BROWN)
B21 (GRAY)
B: B135
C: B136
A: B134
D: B137

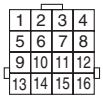
WI-01140



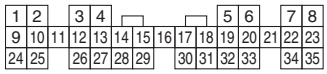
E5 (LIGHT GRAY)
E6 (LIGHT GRAY)
E16 (LIGHT GRAY)
E17 (LIGHT GRAY)



B22 (BROWN)



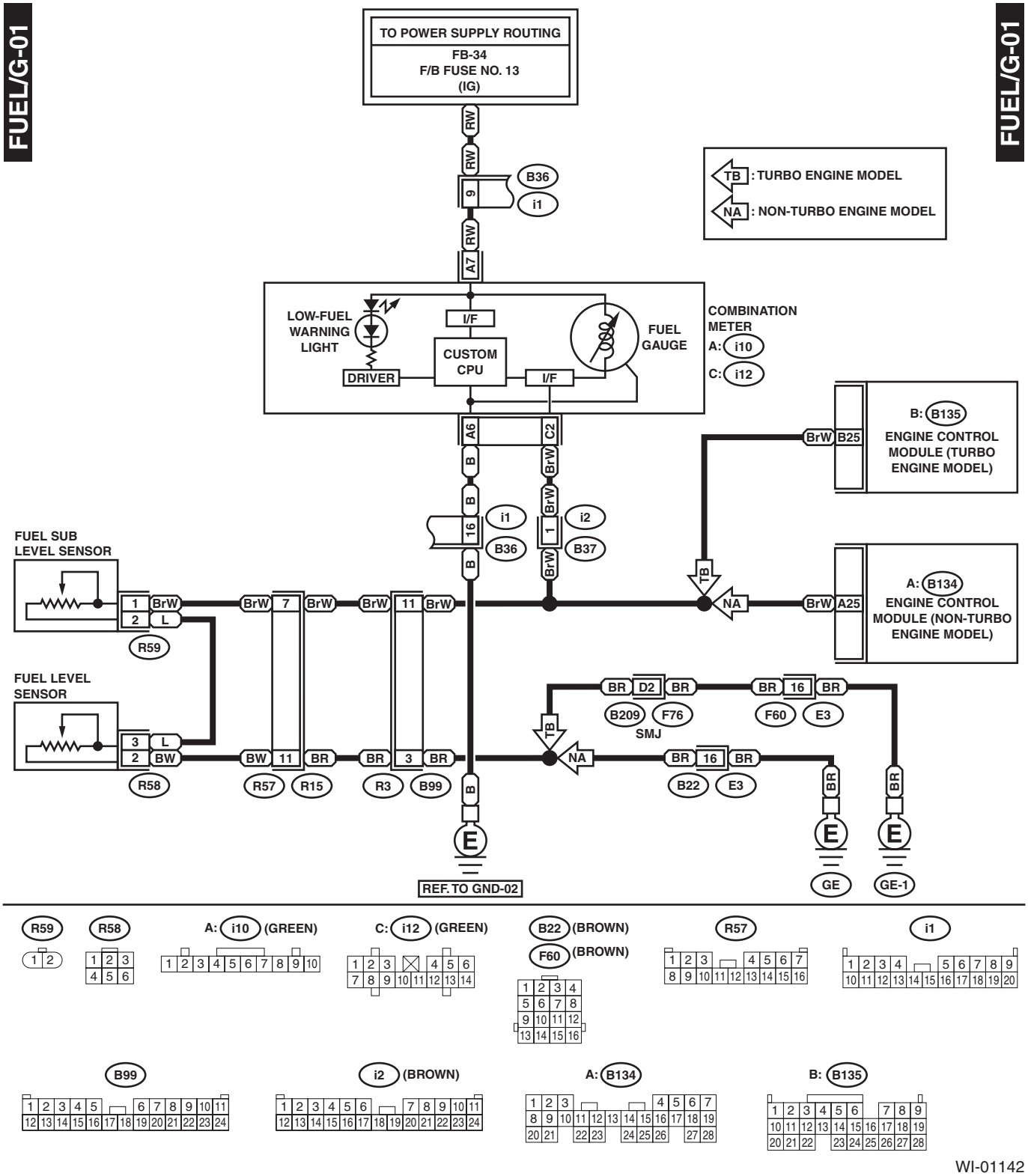
D: B137



WI-01141

20.Fuel Gauge System

A: SCHEMATIC

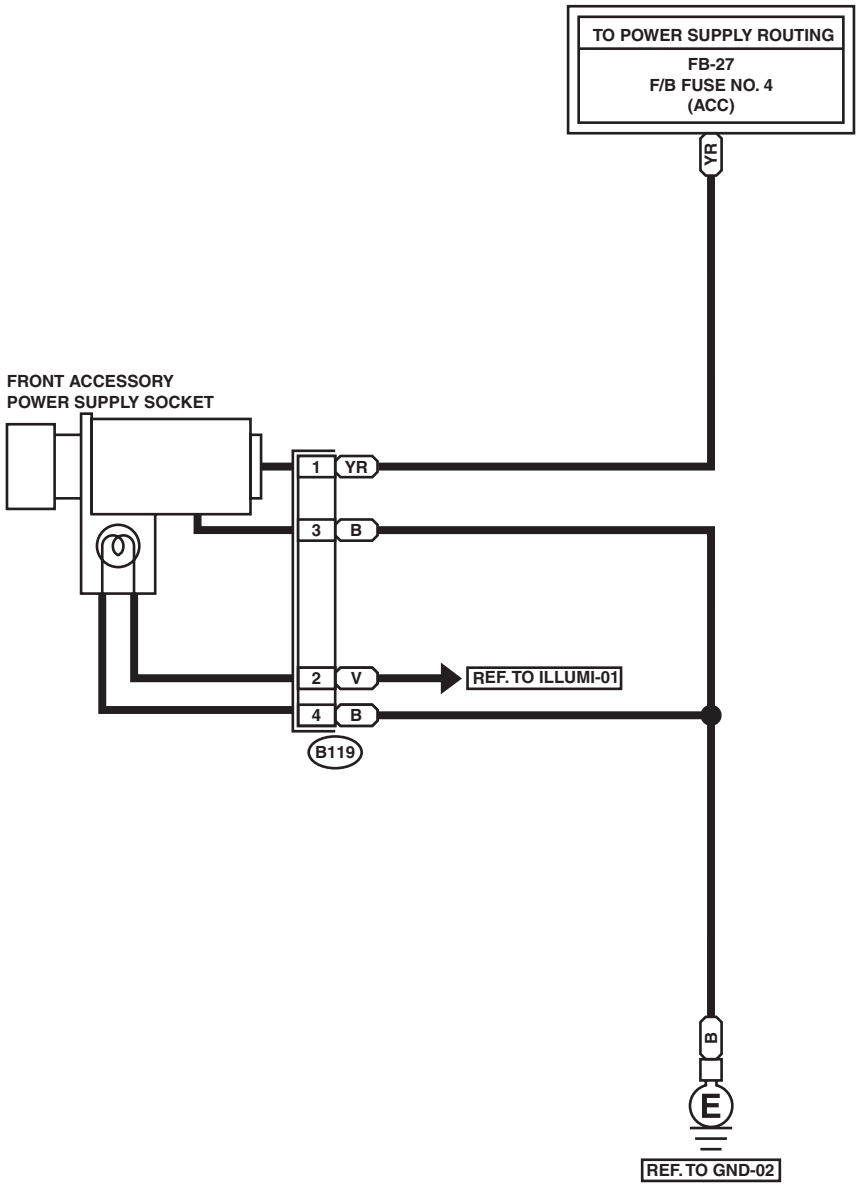


WI-01142

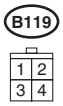
21.Front Accessory Power Supply System

A: SCHEMATIC

FAPS-01



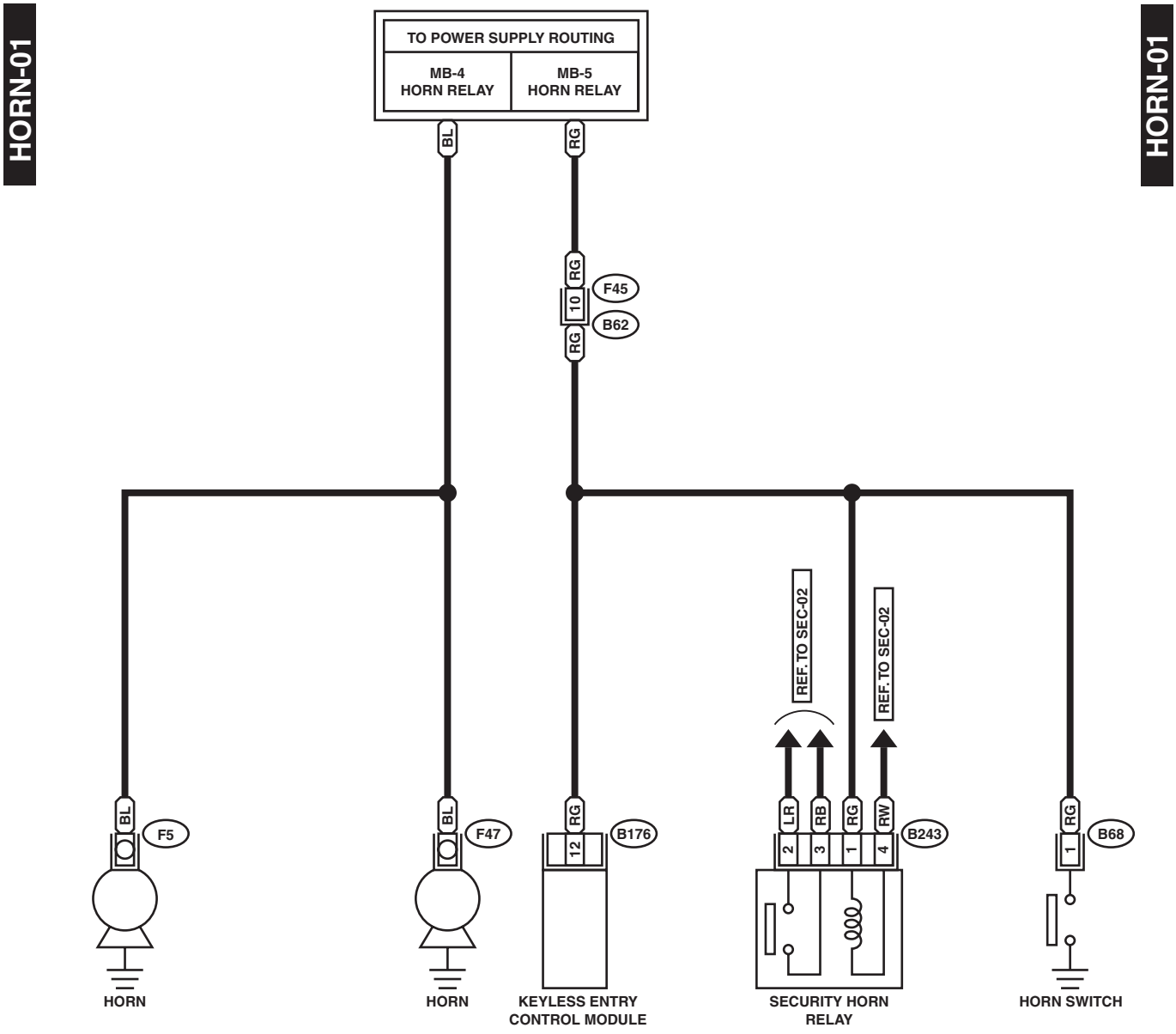
FAPS-01



WI-02184

22.Horn System

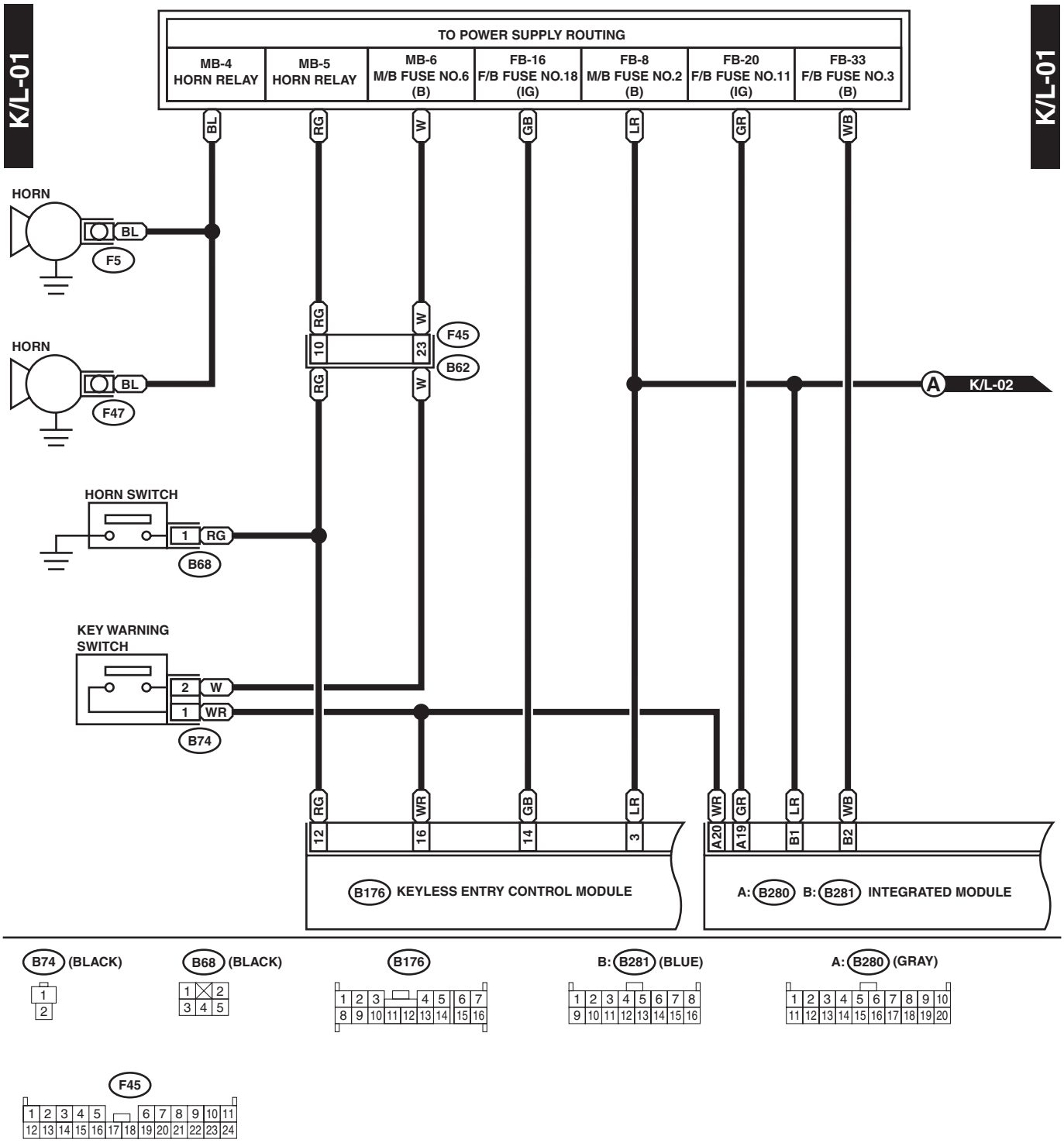
A: SCHEMATIC



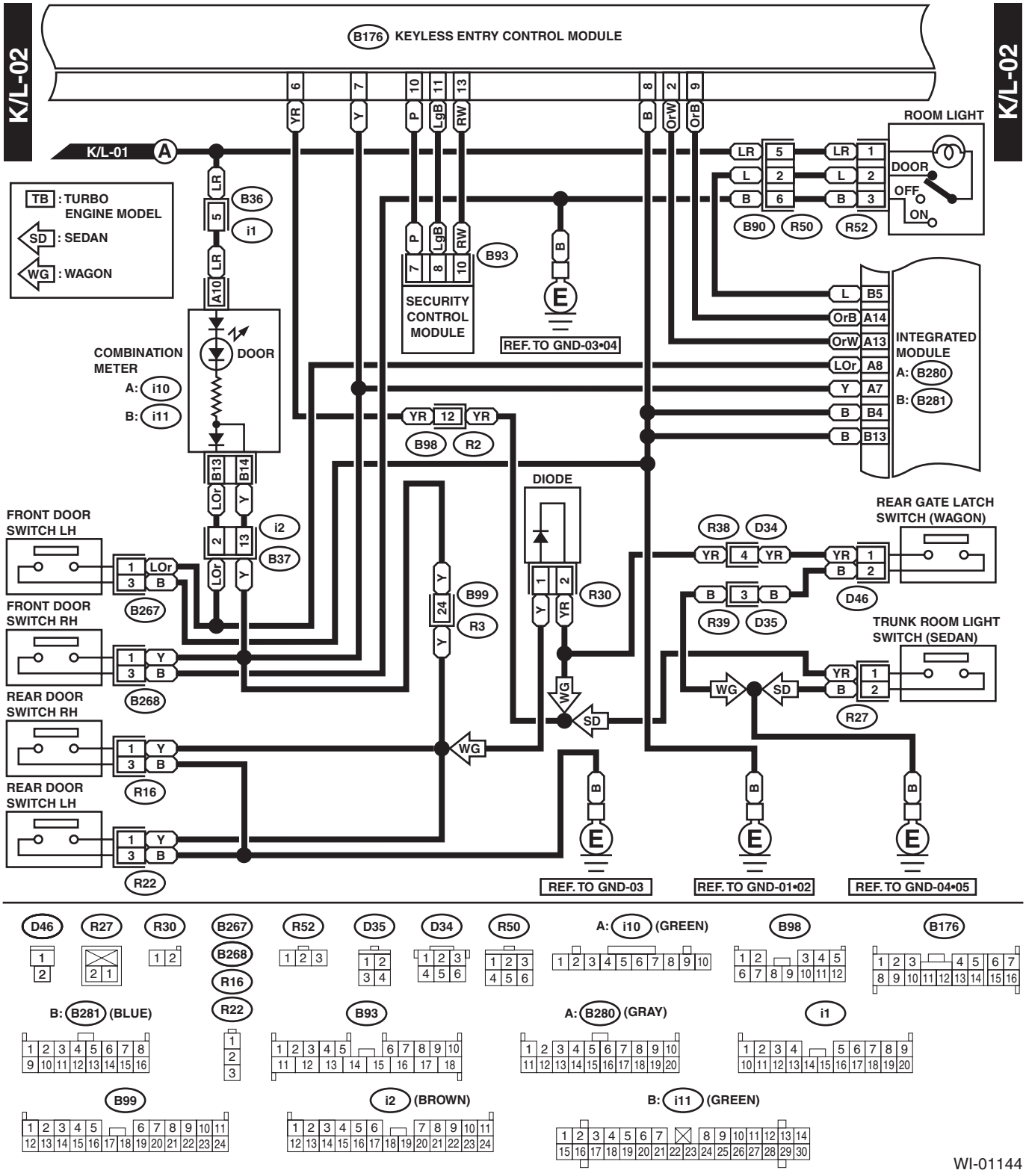
WI-02185

23.Keyless Entry System

A: SCHEMATIC

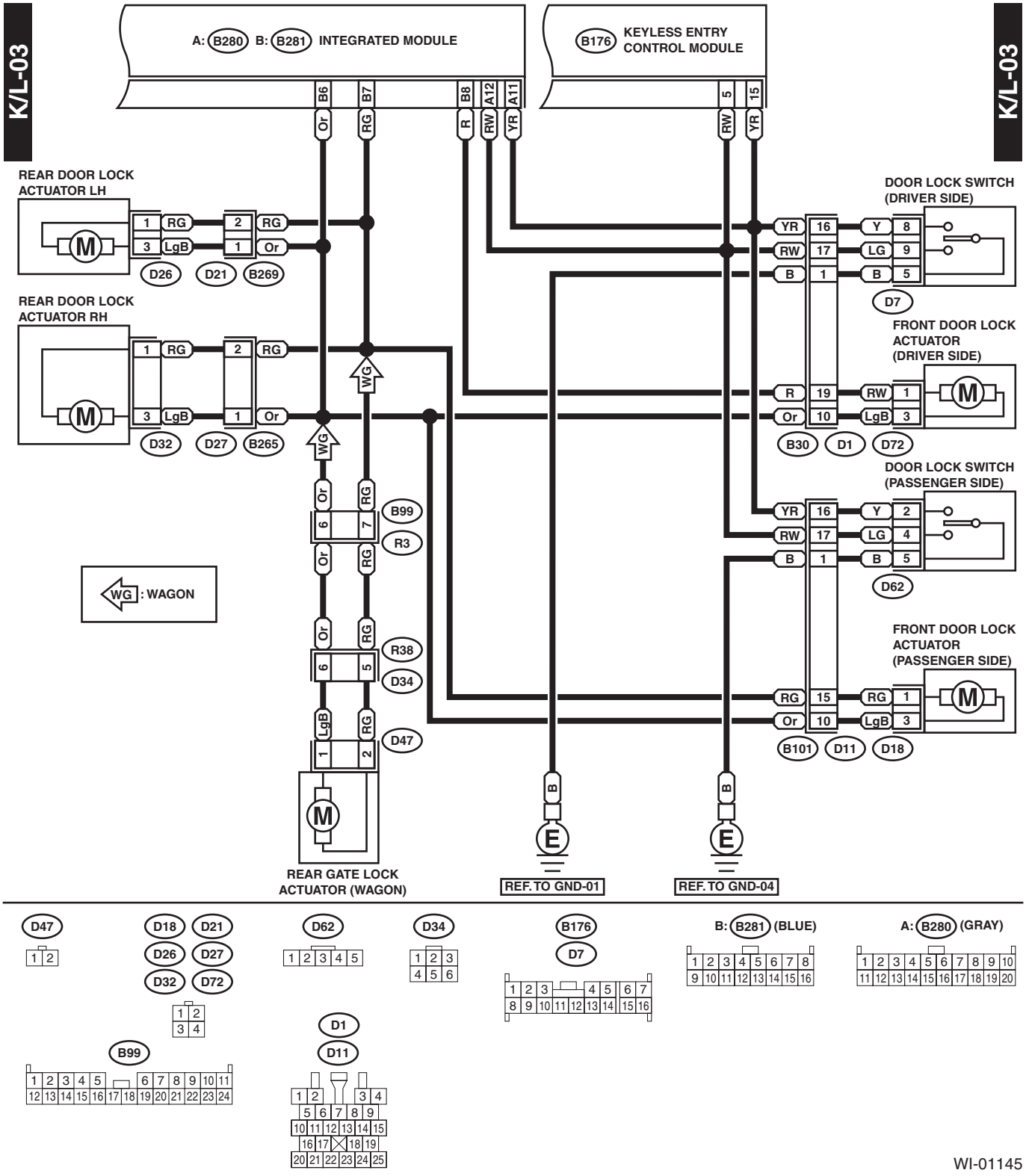


WI-01143


K/L-02
K/L-02
B176 KEYLESS ENTRY CONTROL MODULE
K/L-01
TB : TURBO ENGINE MODEL
SD : SEDAN
WG : WAGON
ROOM LIGHT
DOOR
OFF
ON
B90
R50
R52
B36
i1
SECURITY CONTROL MODULE
B93
REF. TO GND-03•04
INTEGRATED MODULE
A: B280
B: B281
COMBINATION METER
DOOR
A: i10
B: i11
B98
R2
DIODE
R30
FRONT DOOR SWITCH LH
B37
i2
B267
FRONT DOOR SWITCH RH
B268
REAR DOOR SWITCH RH
R16
REAR DOOR SWITCH LH
R22
B99
R3
REAR GATE LATCH SWITCH (WAGON)
R38
D34
D46
TRUNK ROOM LIGHT SWITCH (SEDAN)
R39
D35
R27
REF. TO GND-03
REF. TO GND-01•02
REF. TO GND-04•05

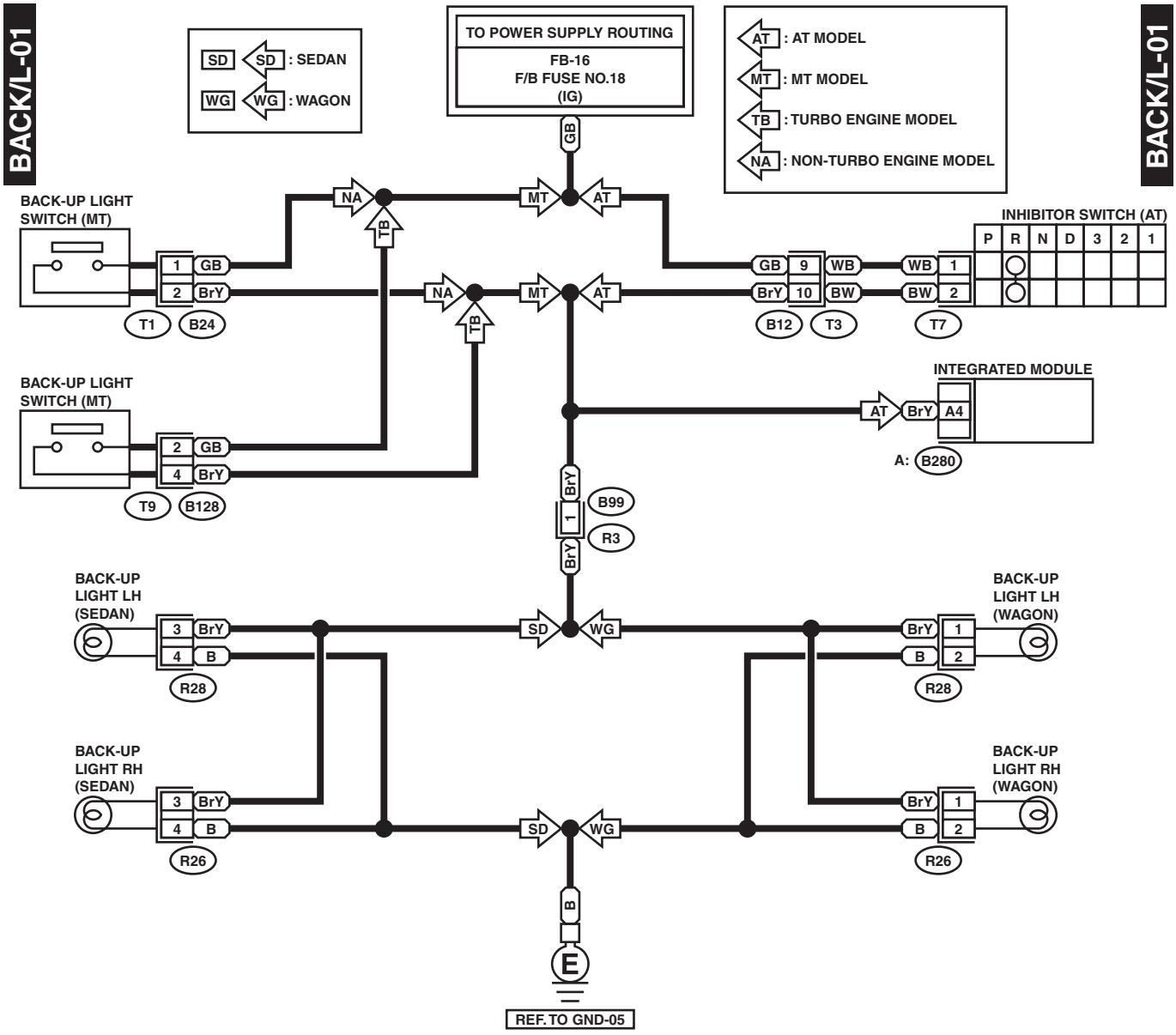
D46
R27
R30
B267
B268
R16
R22
R52
D35
D34
R50
A: i10 (GREEN)
B98
B176
B: B281 (BLUE)
B93
A: B280 (GRAY)
i1
B99
i2 (BROWN)
B: i11 (GREEN)

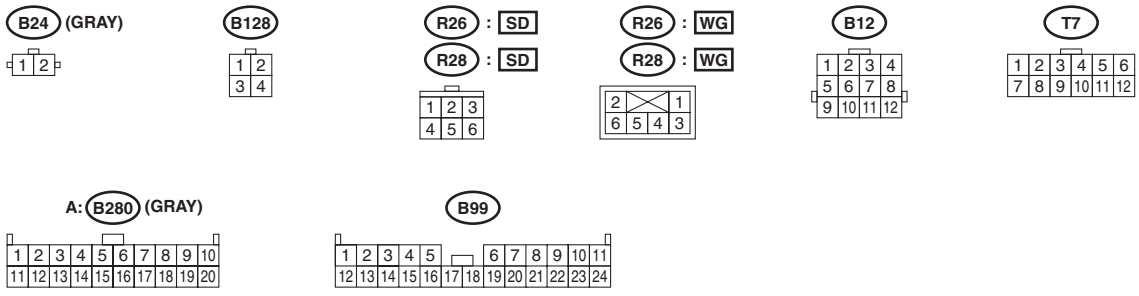
WI-01144


K/L-03
K/L-03
A: B280 B: B281 INTEGRATED MODULE
B176 KEYLESS ENTRY CONTROL MODULE
REAR DOOR LOCK ACTUATOR LH
REAR DOOR LOCK ACTUATOR RH
DOOR LOCK SWITCH (DRIVER SIDE)
FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
DOOR LOCK SWITCH (PASSENGER SIDE)
FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
WG : WAGON
REAR GATE LOCK ACTUATOR (WAGON)
REF. TO GND-01
REF. TO GND-04
B: B281 (BLUE)
A: B280 (GRAY)
WI-01145

24.Back-up Light System

A: SCHEMATIC

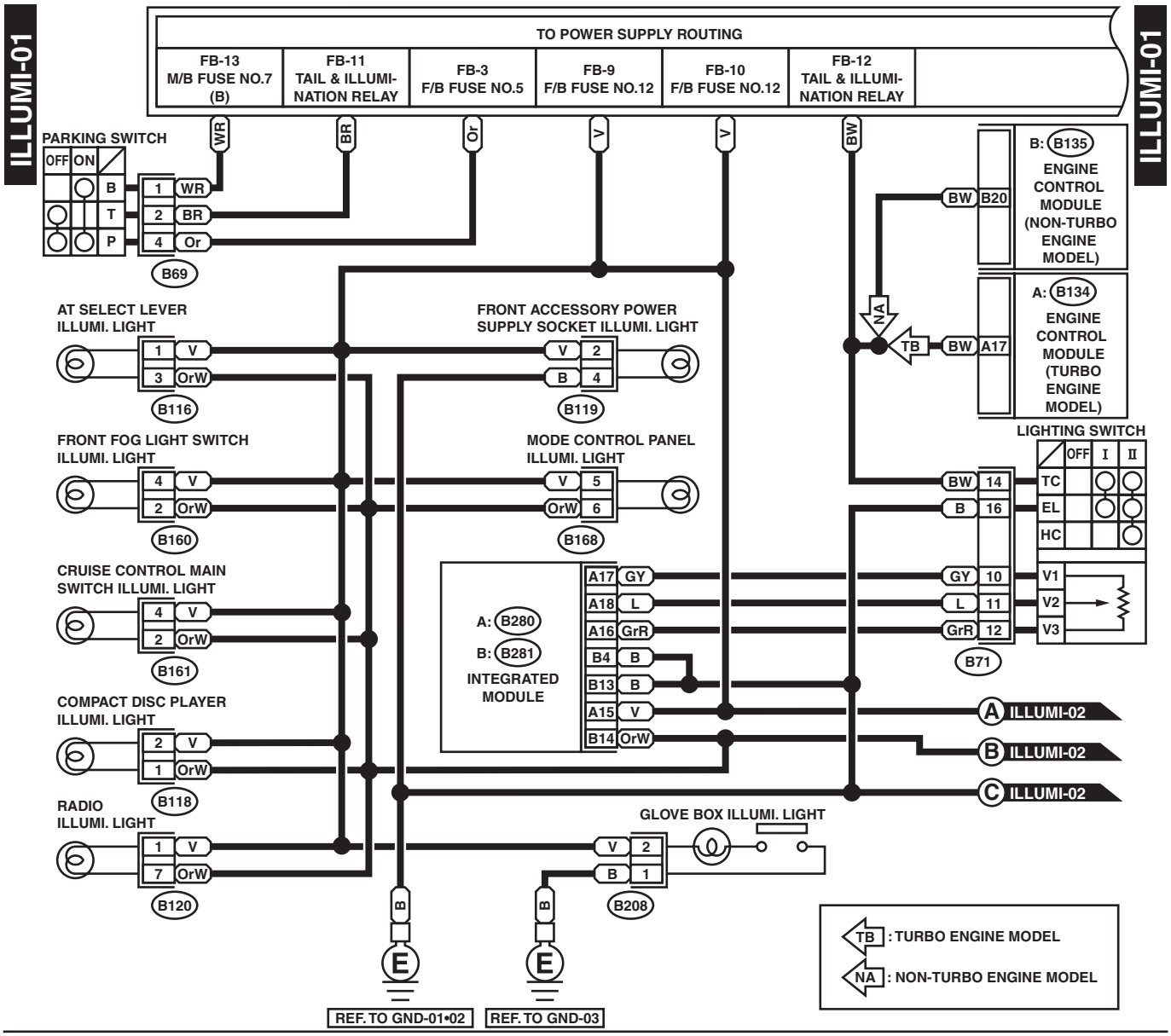


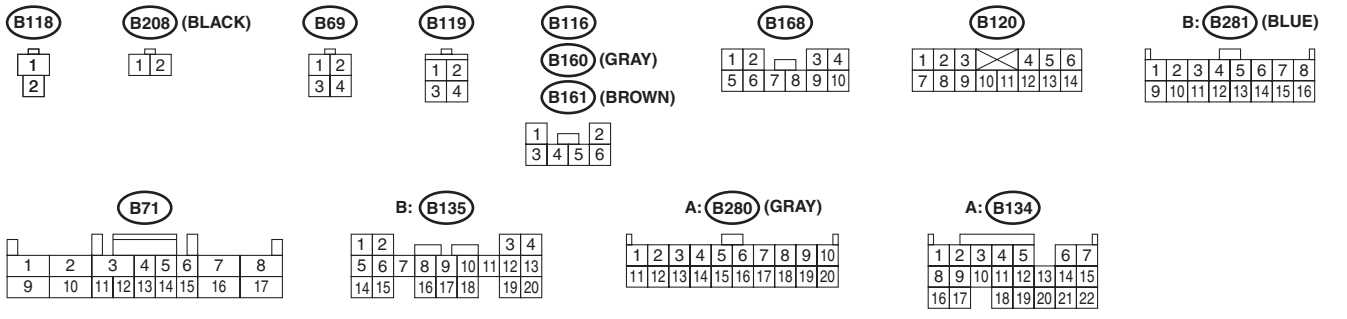


WI-01146

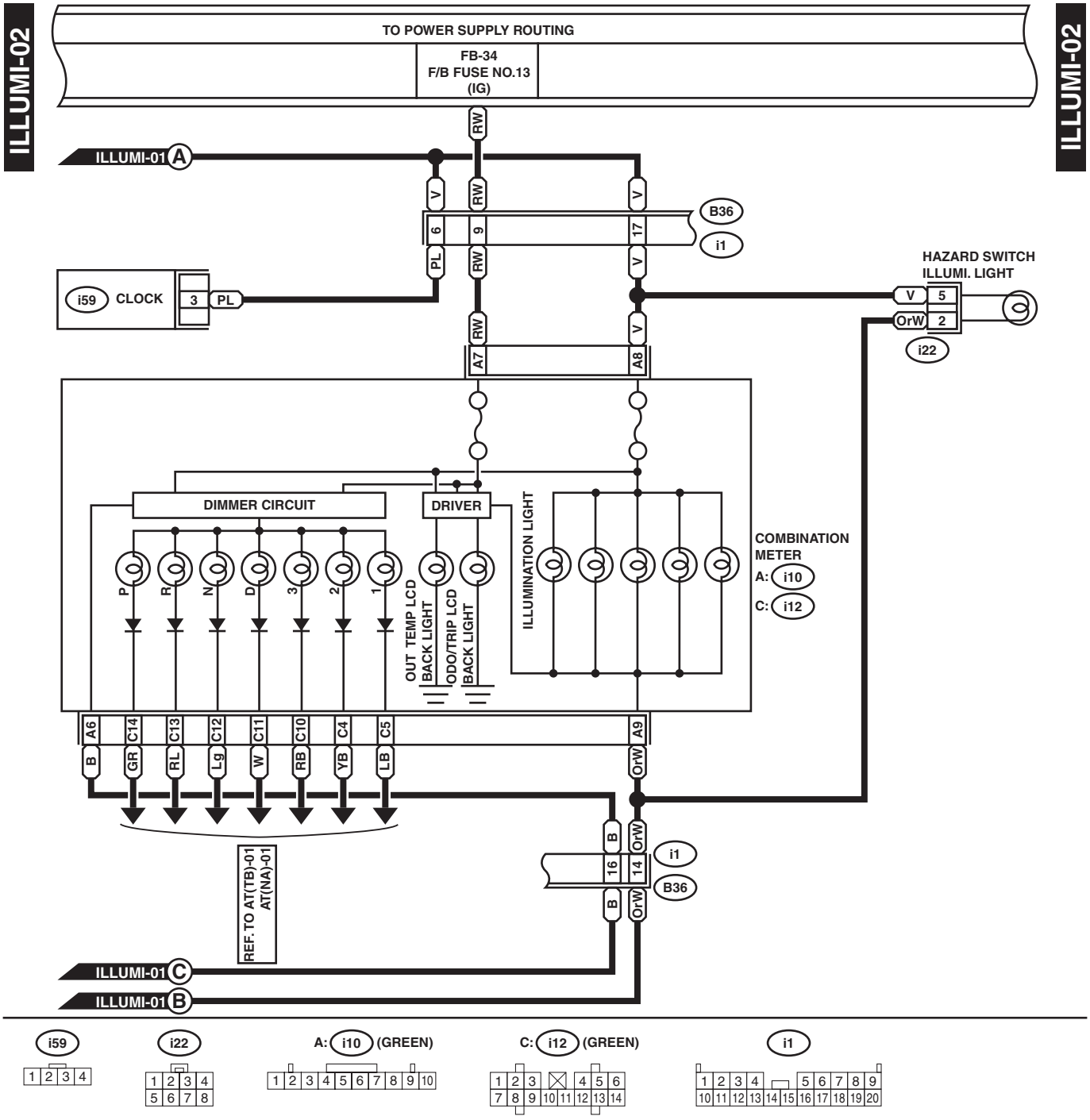
25.Clearance Light and Illumination Light System

A: SCHEMATIC



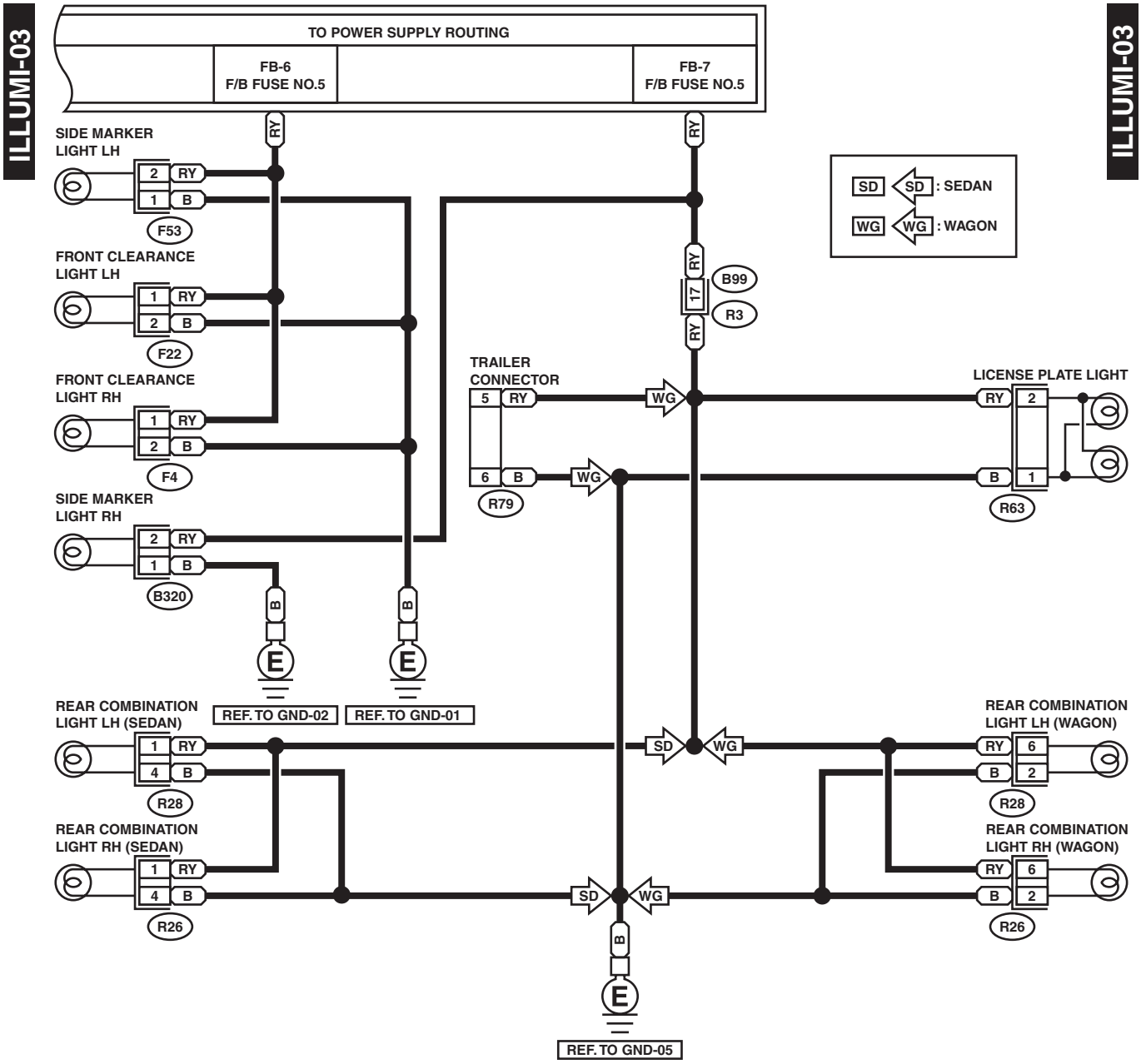


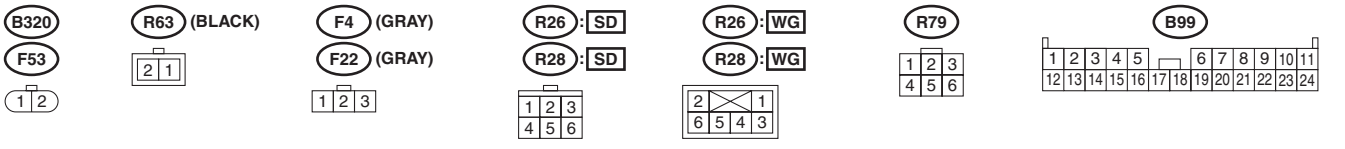
WI-01147


ILLUMI-02
ILLUMI-02
TO POWER SUPPLY ROUTING
FB-34
F/B FUSE NO.13
(IG)
ILLUMI-01 A
ILLUMI-01 C
ILLUMI-01 B
B36
i1
i59 CLOCK
3
PL
HAZARD SWITCH
ILLUMI. LIGHT
V
OrW
5
2
i22
DIMMER CIRCUIT
DRIVER
ILLUMINATION LIGHT
COMBINATION
METER
A: i10
C: i12
P
R
N
D
3
2
1
OUT TEMP LCD
BACK LIGHT
ODO/TRIP LCD
BACK LIGHT
REF. TO AT(TB)-01
AT(NA)-01

i59
i22
A: i10 (GREEN)
C: i12 (GREEN)
i1

WI-01148

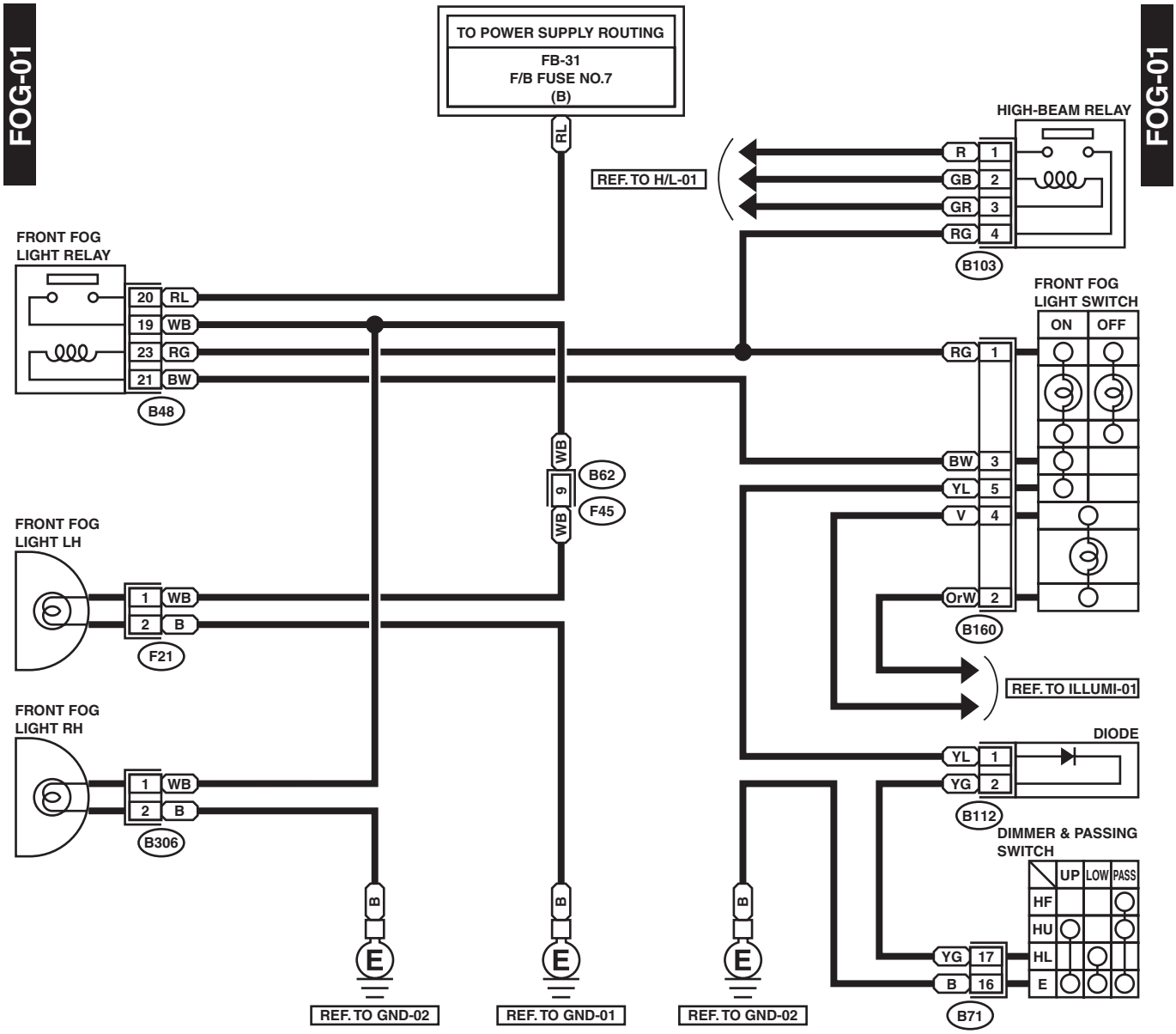

ILLUMI-03
ILLUMI-03
TO POWER SUPPLY ROUTING
FB-6
F/B FUSE NO.5
FB-7
F/B FUSE NO.5
SIDE MARKER
LIGHT LH
FRONT CLEARANCE
LIGHT LH
FRONT CLEARANCE
LIGHT RH
SIDE MARKER
LIGHT RH
TRAILER
CONNECTOR
LICENSE PLATE LIGHT
REAR COMBINATION
LIGHT LH (SEDAN)
REAR COMBINATION
LIGHT RH (SEDAN)
REAR COMBINATION
LIGHT LH (WAGON)
REAR COMBINATION
LIGHT RH (WAGON)
SD : SEDAN
WG : WAGON
REF. TO GND-02
REF. TO GND-01
REF. TO GND-05
F53
F22
F4
B320
R79
R63
R28
R26
B99
R3

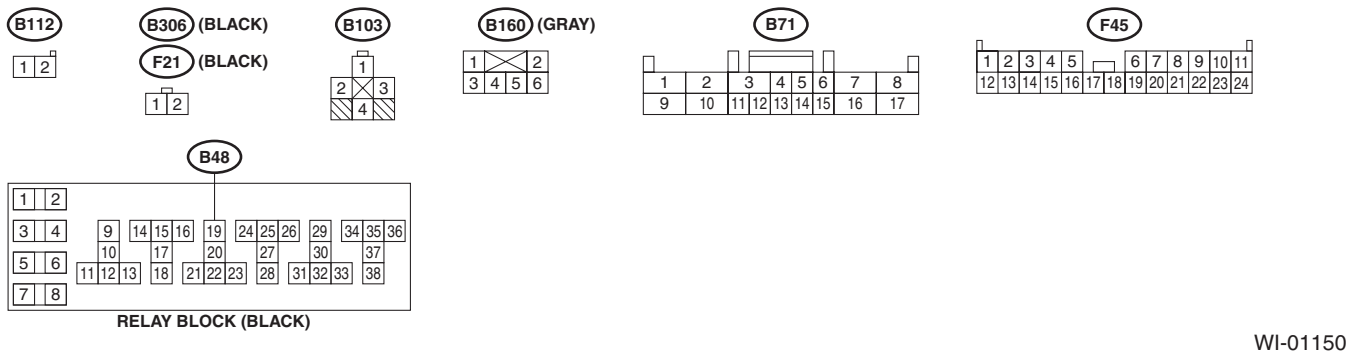

B320
F53
R63 (BLACK)
F4 (GRAY)
F22 (GRAY)
R26 : SD
R28 : SD
R26 : WG
R28 : WG
R79
B99

WI-01149

26.Front Fog Light System

A: SCHEMATIC

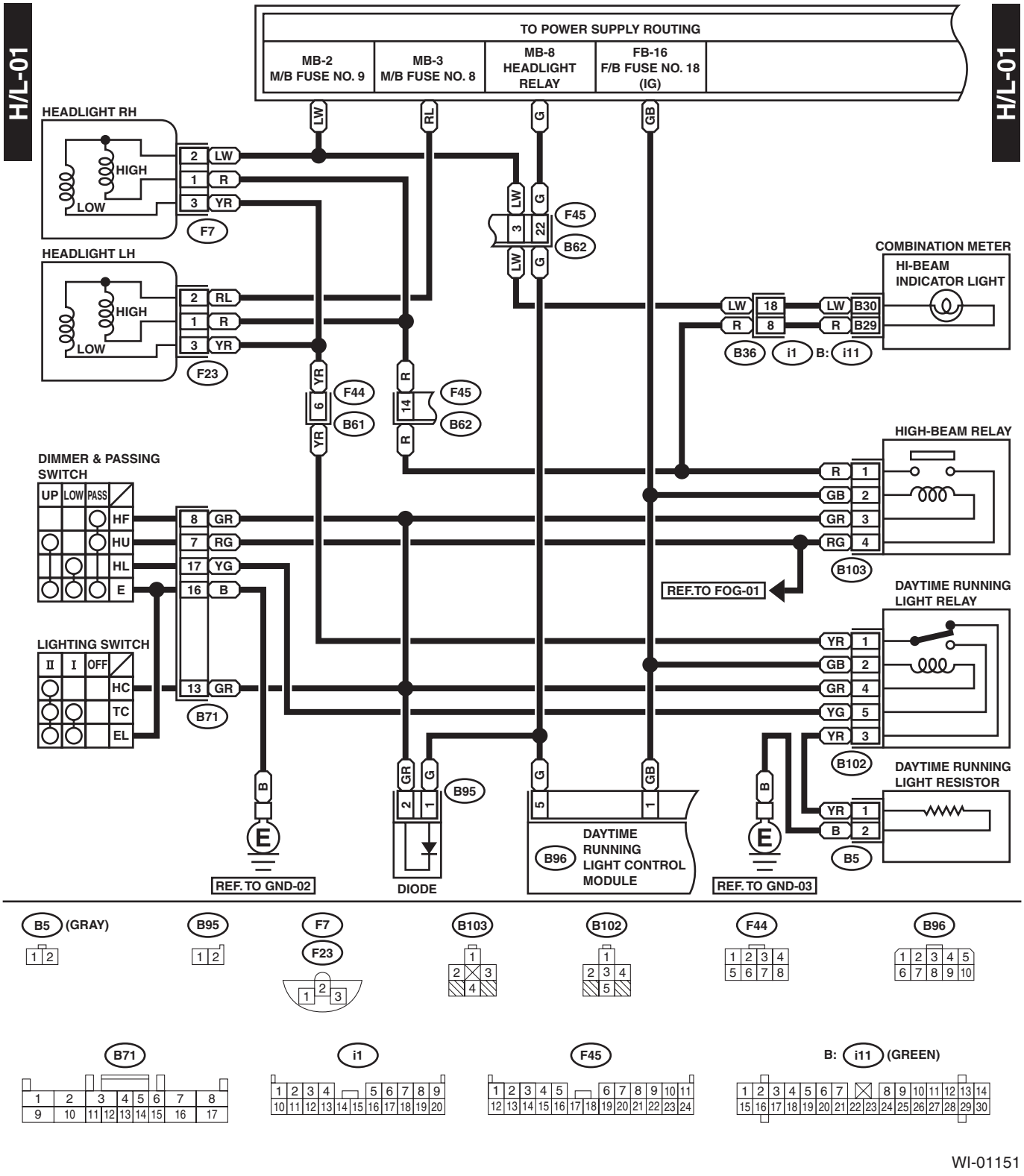




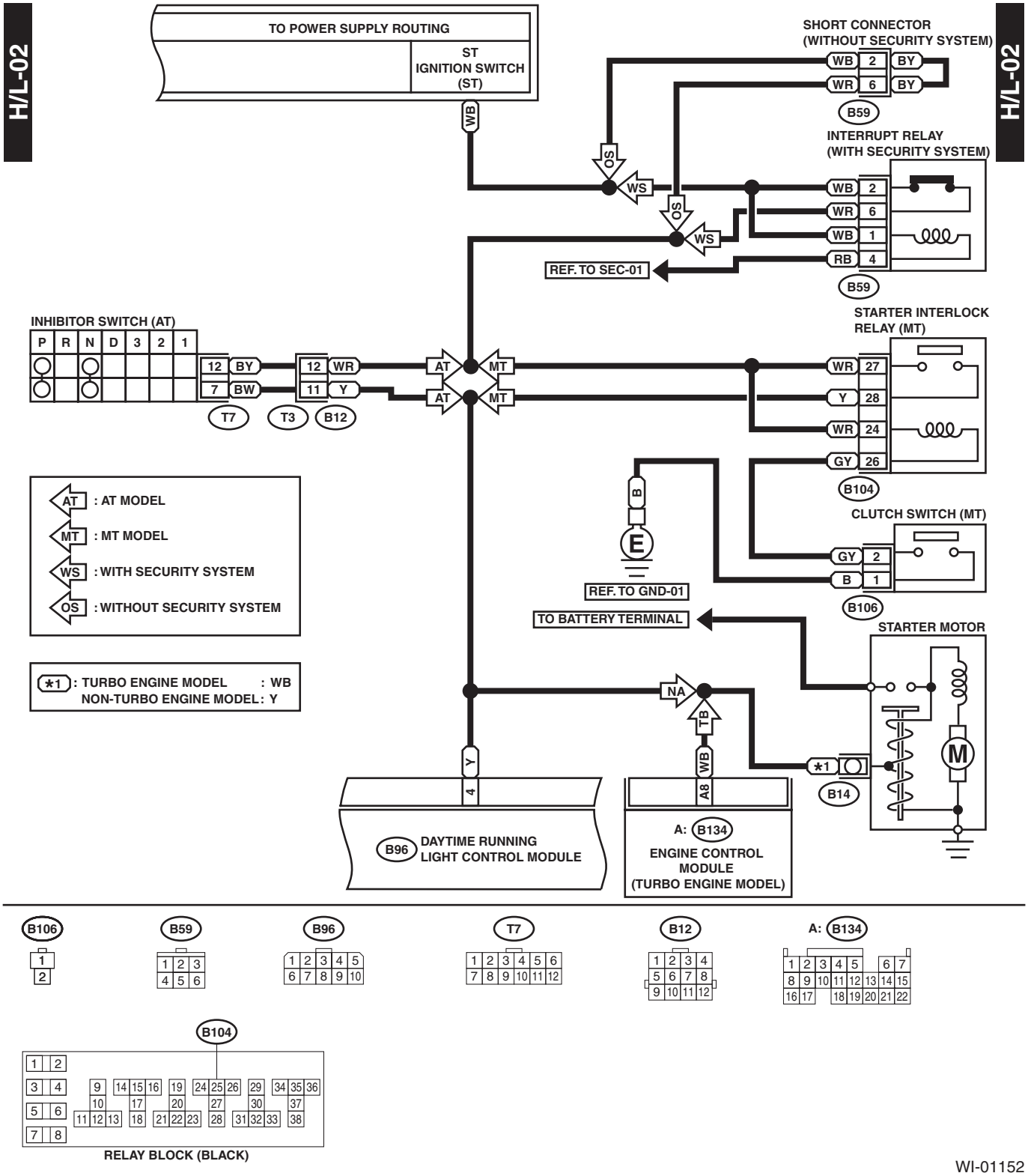
WI-01150

27.Headlight System

A: SCHEMATIC



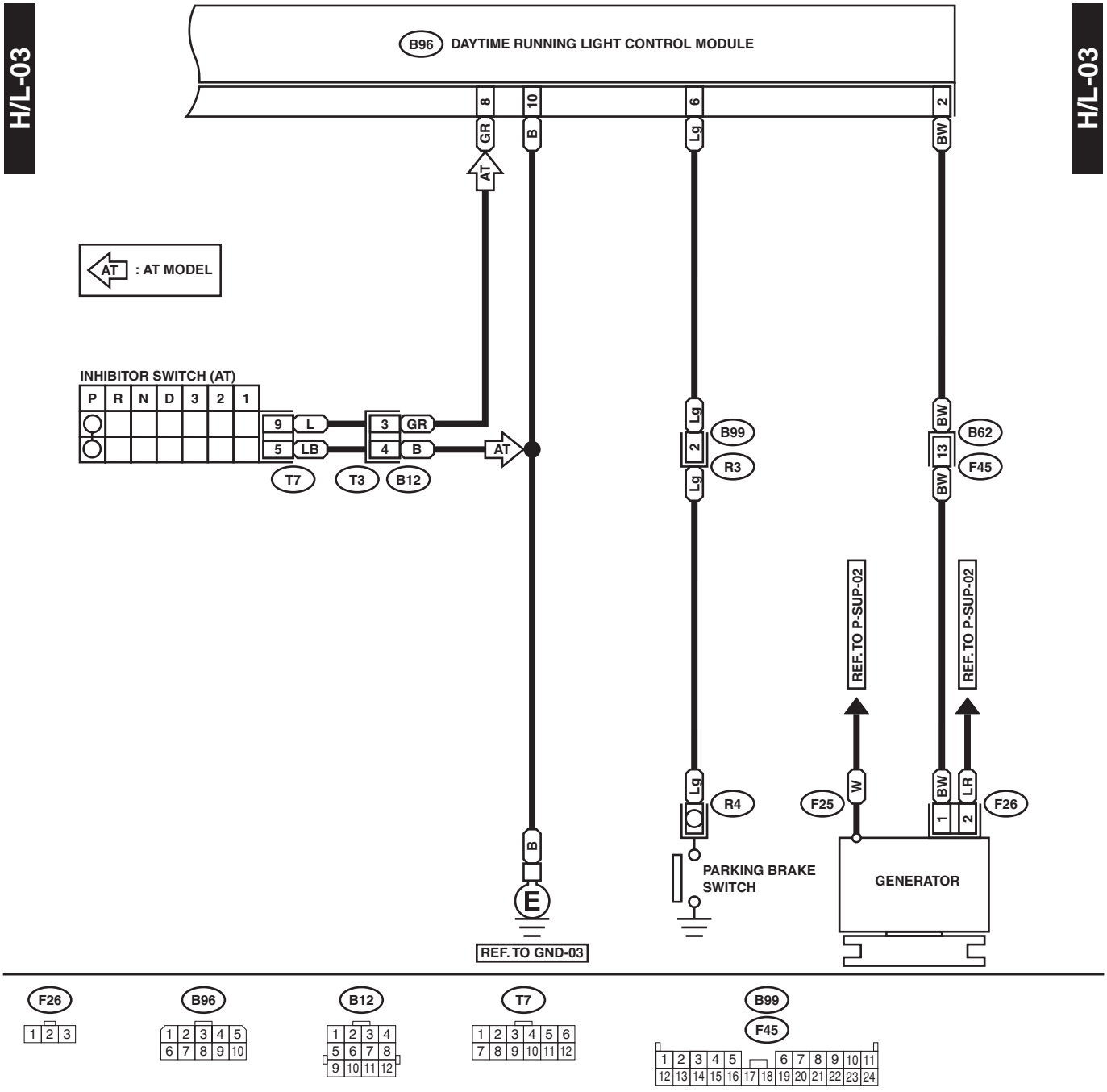
WI-01151


H/L-02
H/L-02
TO POWER SUPPLY ROUTING
ST
IGNITION SWITCH (ST)
WB
SHORT CONNECTOR (WITHOUT SECURITY SYSTEM)
WB 2 BY
WR 6 BY
B59
INTERRUPT RELAY (WITH SECURITY SYSTEM)
OS
WS
WB 2
WR 6
WB 1
RB 4
REF. TO SEC-01
B59
INHIBITOR SWITCH (AT)
P R N D 3 2 1
12 BY
7 BW
T7
12 WR
11 Y
T3
B12
AT
MT
STARTER INTERLOCK RELAY (MT)
WR 27
Y 28
WR 24
GY 26
B104
AT : AT MODEL
MT : MT MODEL
WS : WITH SECURITY SYSTEM
OS : WITHOUT SECURITY SYSTEM
*1 : TURBO ENGINE MODEL : WB
NON-TURBO ENGINE MODEL : Y
B
E
REF. TO GND-01
CLUTCH SWITCH (MT)
GY 2
B 1
B106
TO BATTERY TERMINAL
STARTER MOTOR
NA
TB
WB
*1
B14
M
Y
4
B96 DAYTIME RUNNING LIGHT CONTROL MODULE
A8
A: B134
ENGINE CONTROL MODULE (TURBO ENGINE MODEL)

B106
1
2
B59
1 2 3
4 5 6
B96
1 2 3 4 5
6 7 8 9 10
T7
1 2 3 4 5 6
7 8 9 10 11 12
B12
1 2 3 4
5 6 7 8
9 10 11 12
A: B134
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15
16 17 18 19 20 21 22

B104
1 2
3 4
5 6
7 8
9 10
11 12 13
14 15 16 17 18
19 20 21 22 23
24 25 26 27 28
29 30 31 32 33
34 35 36 37 38
RELAY BLOCK (BLACK)

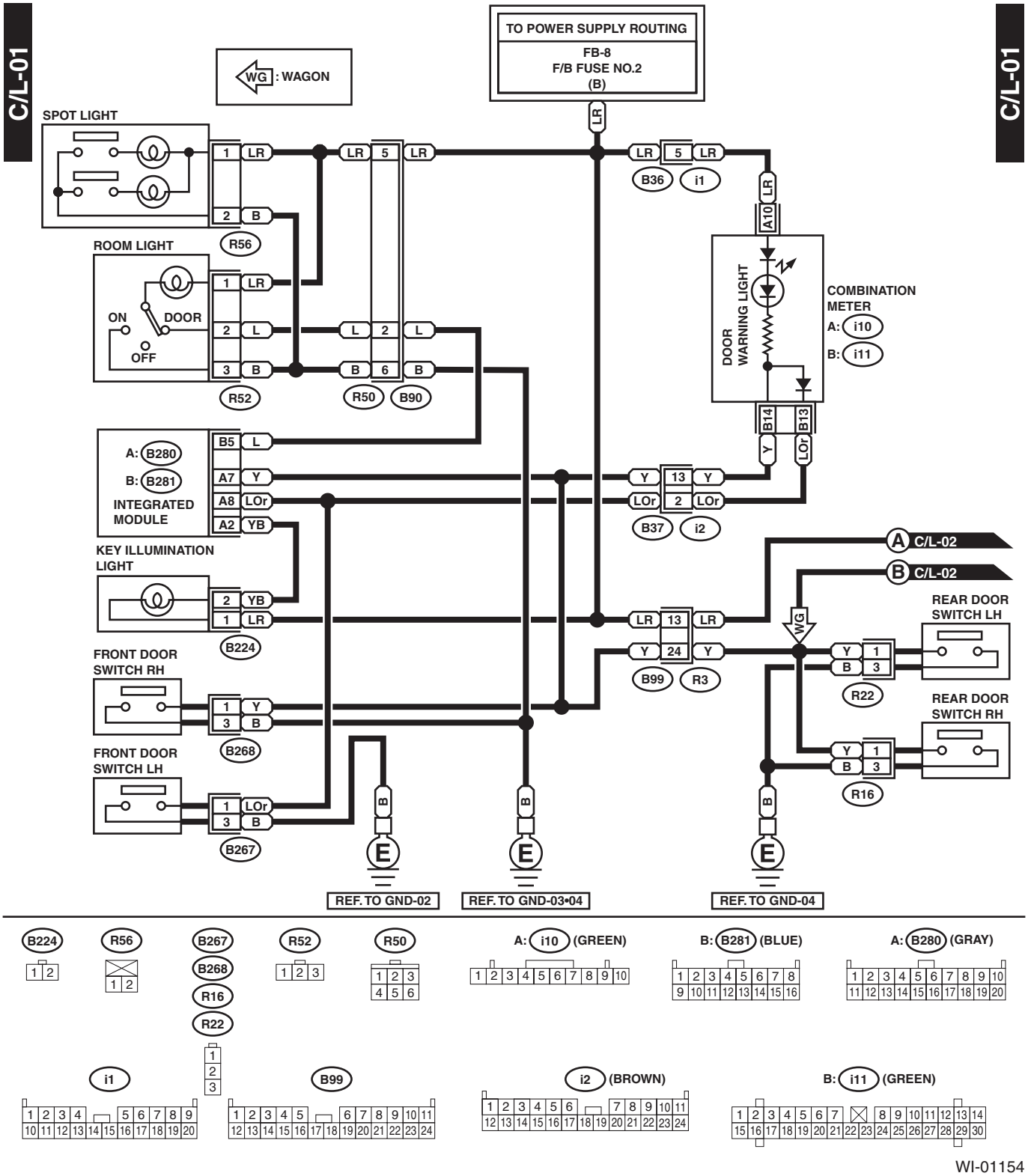
WI-01152


H/L-03
H/L-03
B96 DAYTIME RUNNING LIGHT CONTROL MODULE
8
10
6
2
GR
B
Lg
BW
AT
AT : AT MODEL
INHIBITOR SWITCH (AT)
P R N D 3 2 1
9 L
5 LB
3 GR
4 B
AT
T7
T3
B12
B99
B62
F45
R3
R4
REF. TO P-SUP-02
REF. TO P-SUP-02
F25
W
BW
LR
F26
PARKING BRAKE SWITCH
GENERATOR
REF. TO GND-03
F26
B96
B12
T7
B99
F45

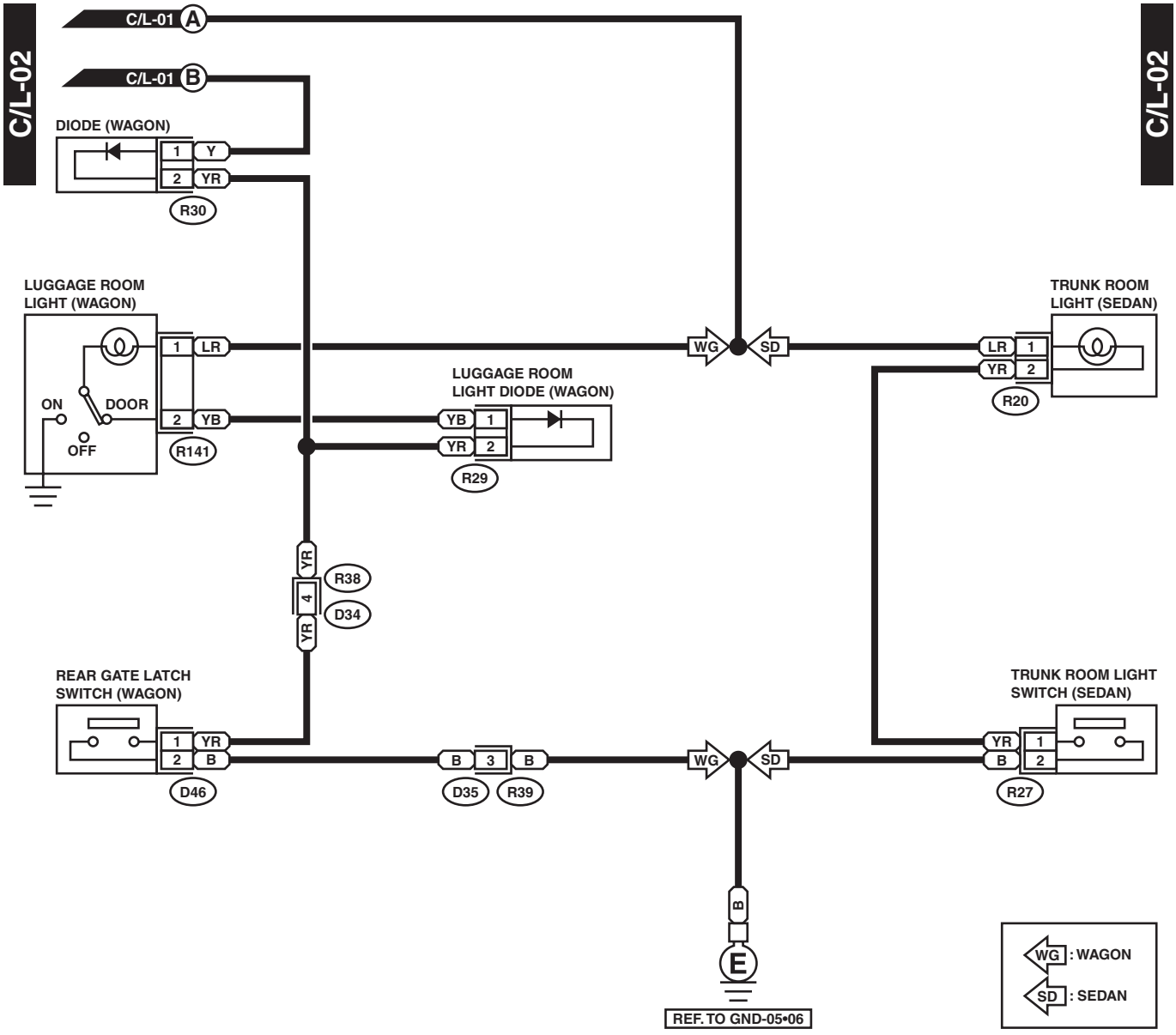
WI-01153

28.In Compartment Light System

A: SCHEMATIC



WI-01154

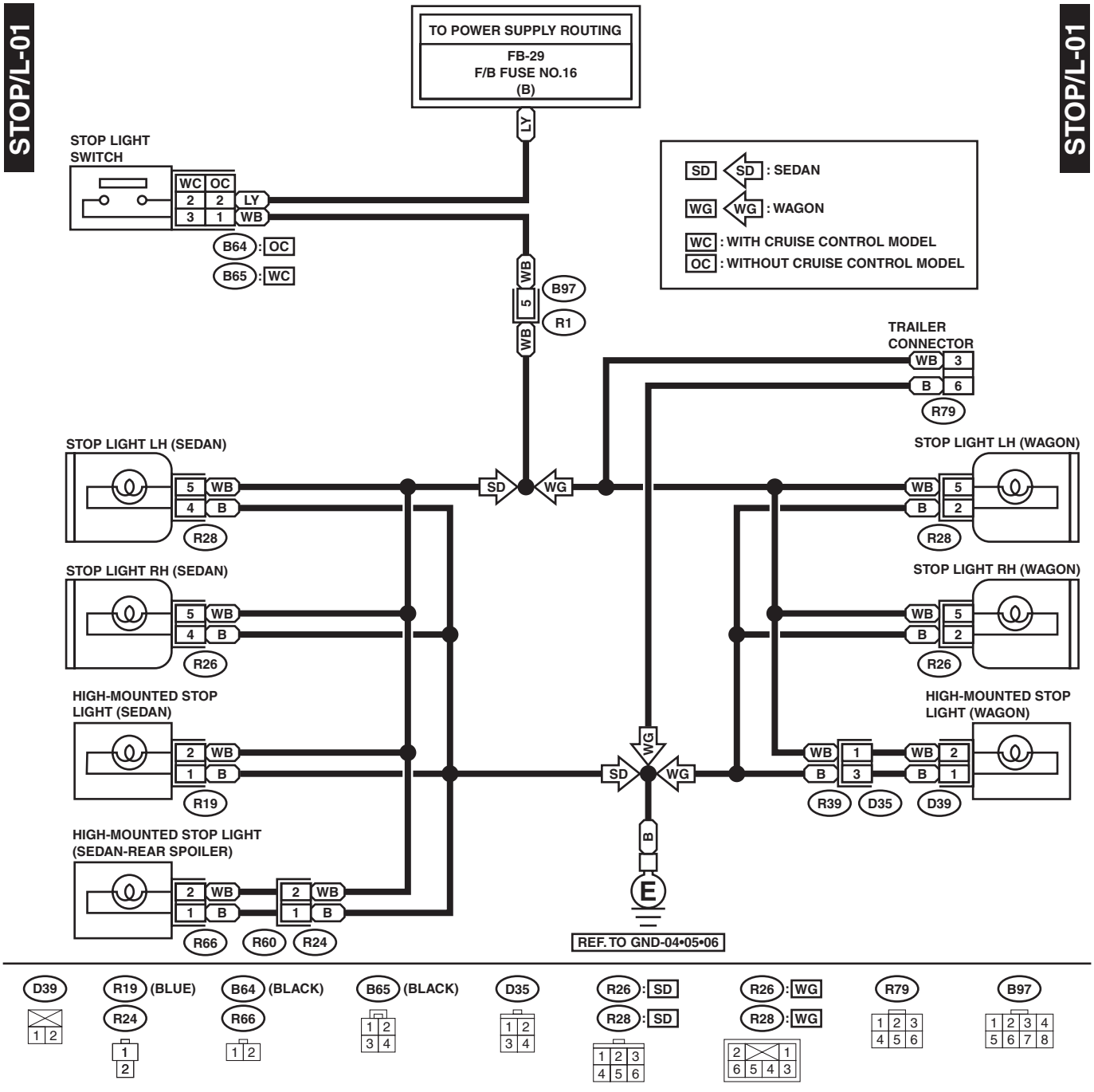

C/L-02
C/L-01 A
C/L-01 B
C/L-02
DIODE (WAGON)
1 Y
2 YR
R30
LUGGAGE ROOM LIGHT (WAGON)
1 LR
2 YB
ON
DOOR
OFF
R141
LUGGAGE ROOM LIGHT DIODE (WAGON)
YB 1
YR 2
R29
WG
SD
TRUNK ROOM LIGHT (SEDAN)
LR 1
YR 2
R20
YR
4
YR
R38
D34
REAR GATE LATCH SWITCH (WAGON)
1 YR
2 B
D46
B 3 B
D35
R39
WG
SD
TRUNK ROOM LIGHT SWITCH (SEDAN)
YR 1
B 2
R27
B
E
REF. TO GND-05•06
WG : WAGON
SD : SEDAN


D46
1
2
R20 (BLACK)
R141
1
2
R27
2 1
R29
R30
1 2
D35
1 2
3 4
D34
1 2 3
4 5 6

WI-01155

29.Stop Light System

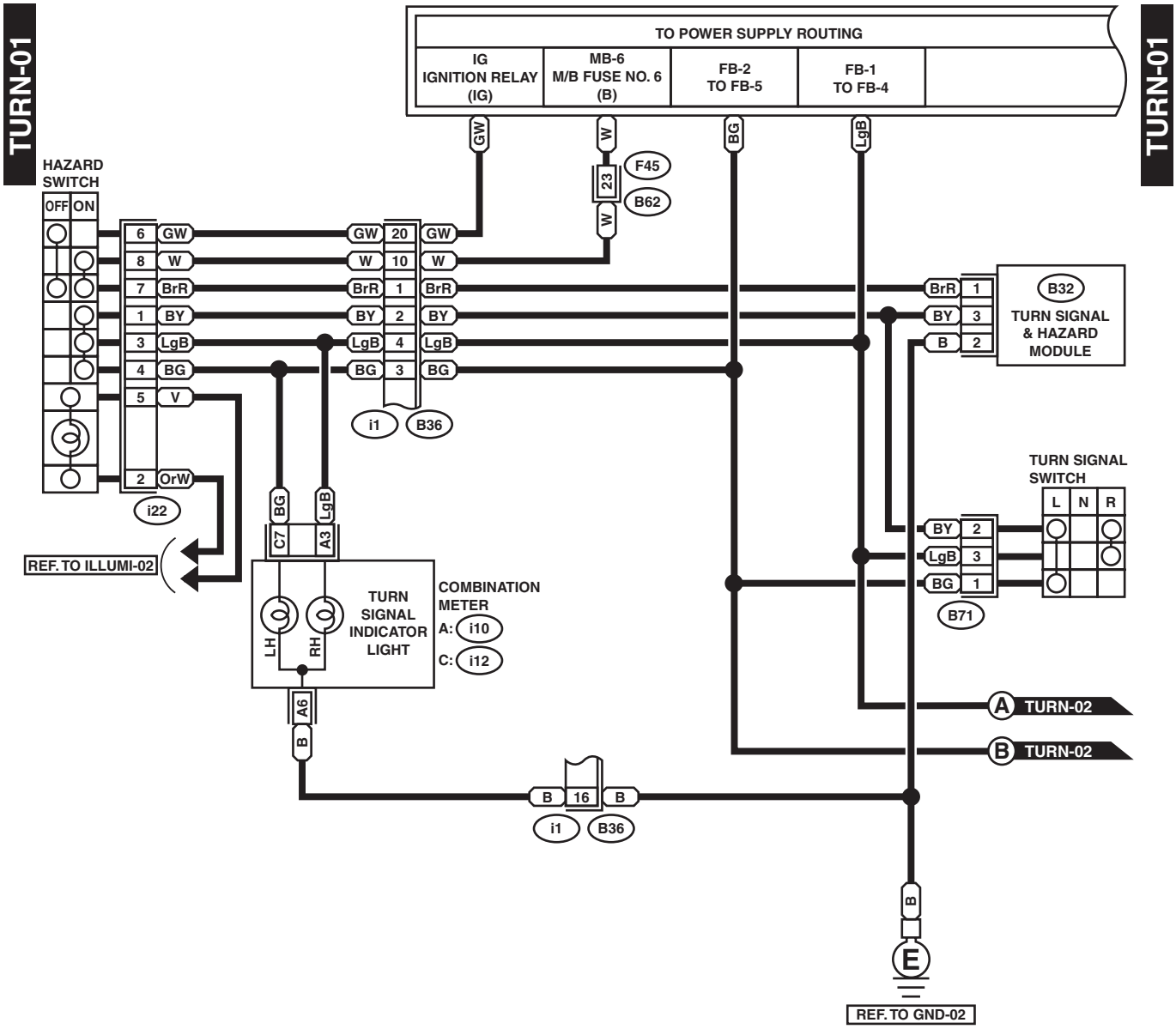
A: SCHEMATIC

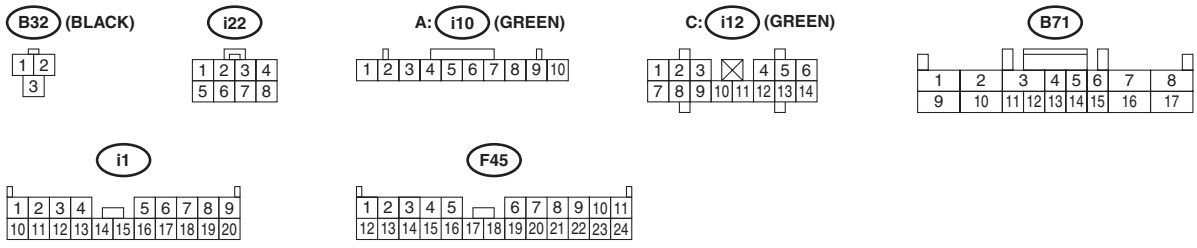


WI-01156

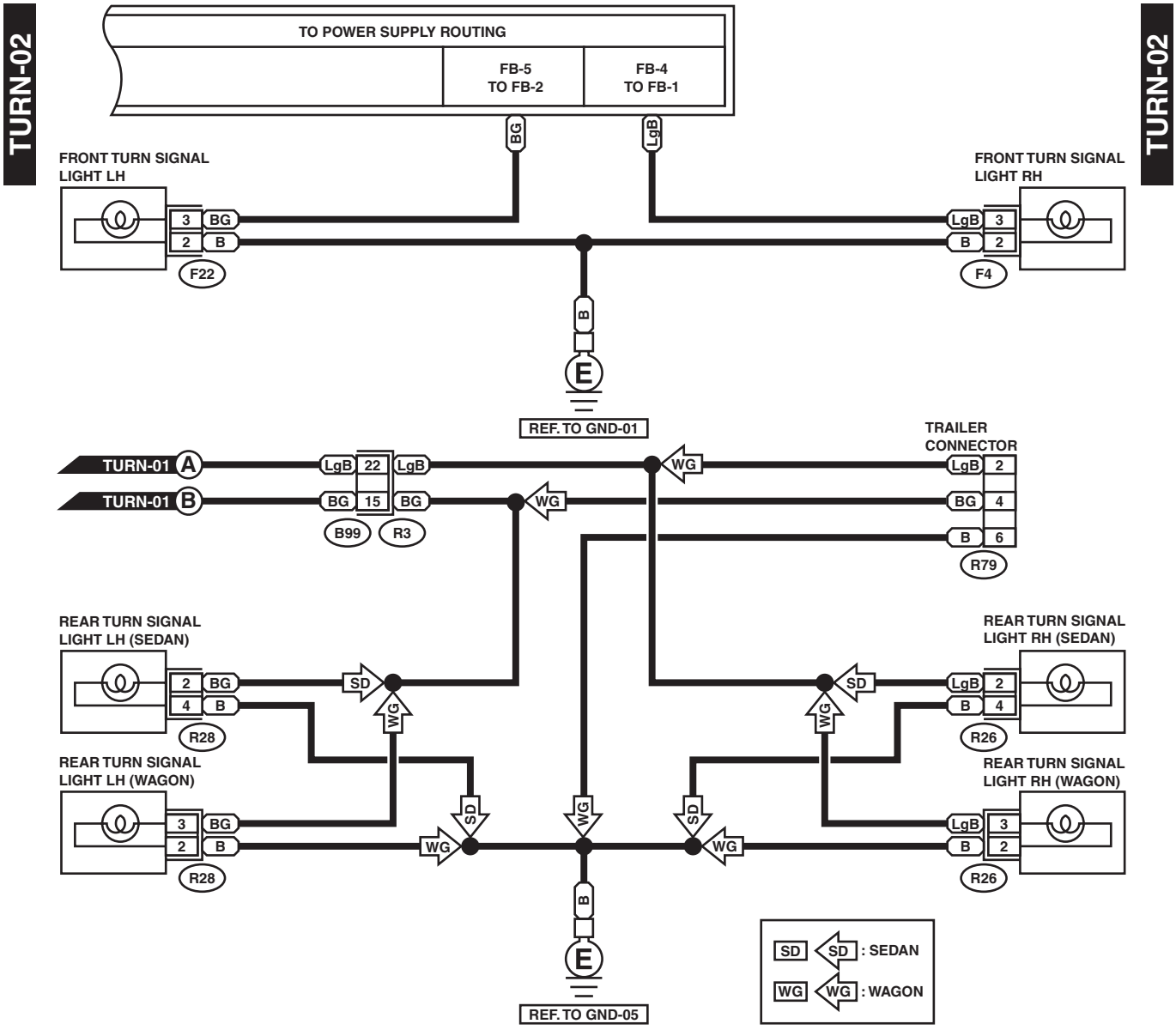
30.Turn Signal Light and Hazard Light System

A: SCHEMATIC





WI-01157



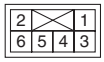
F4 (GRAY)
F22 (GRAY)



R26 : SD
R28 : SD



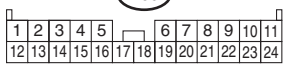
R26 : WG
R28 : WG



R79



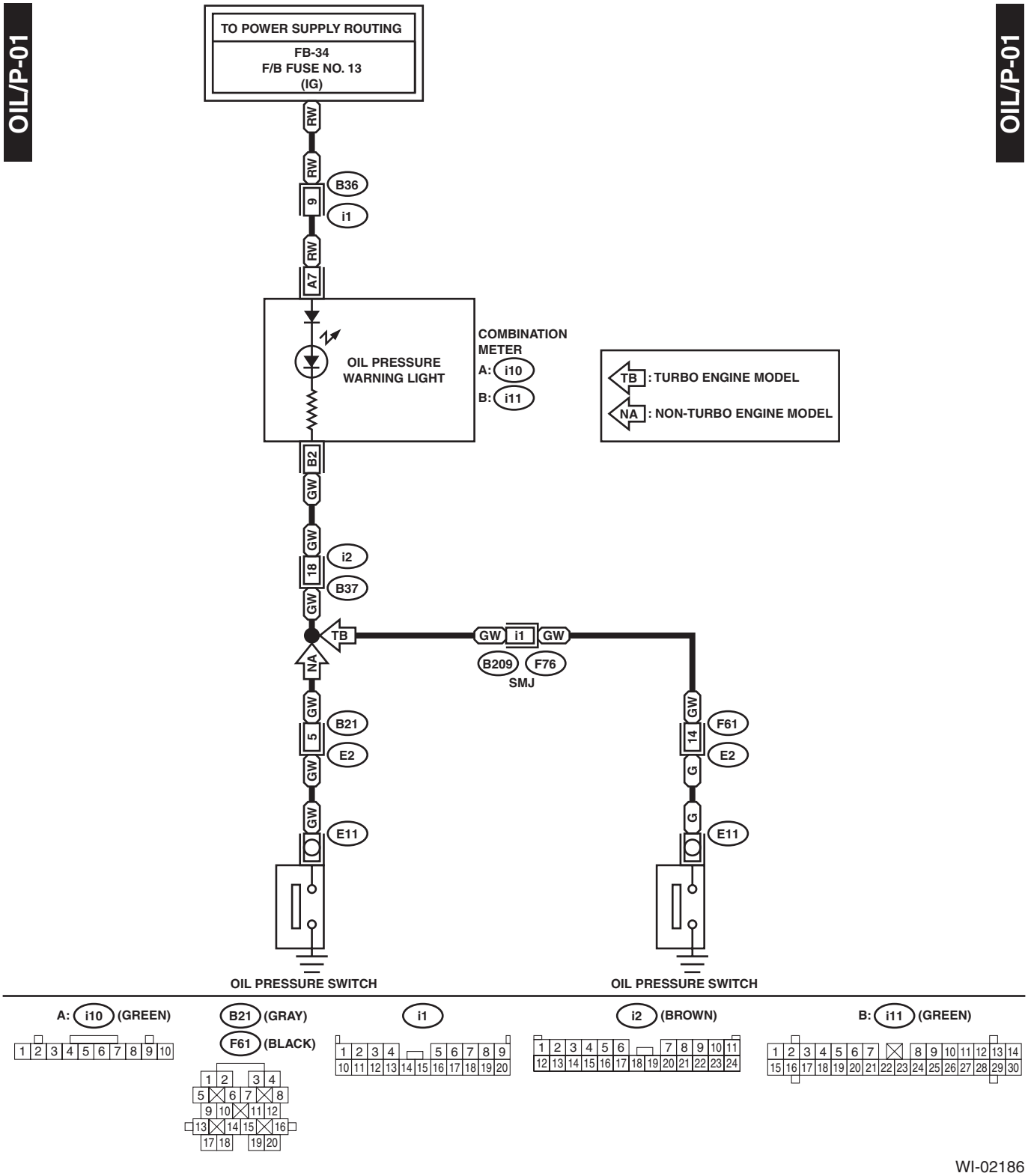
B99



WI-01158

31.Oil Pressure Warning Light System

A: SCHEMATIC

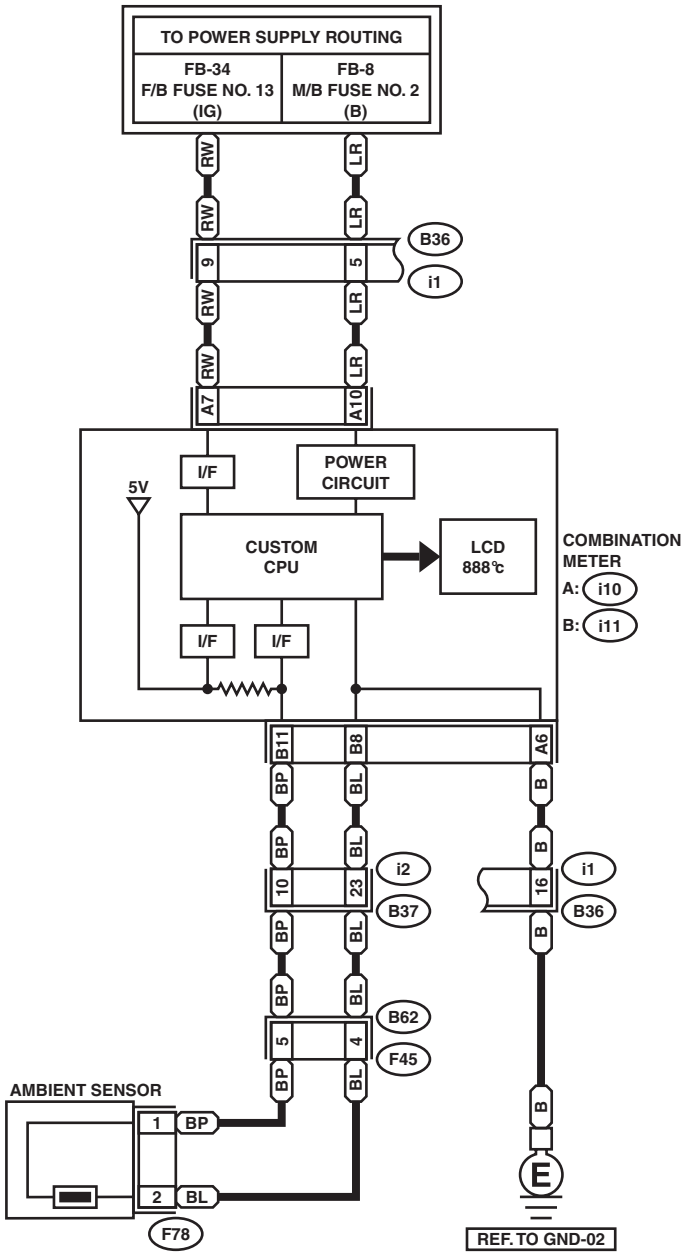


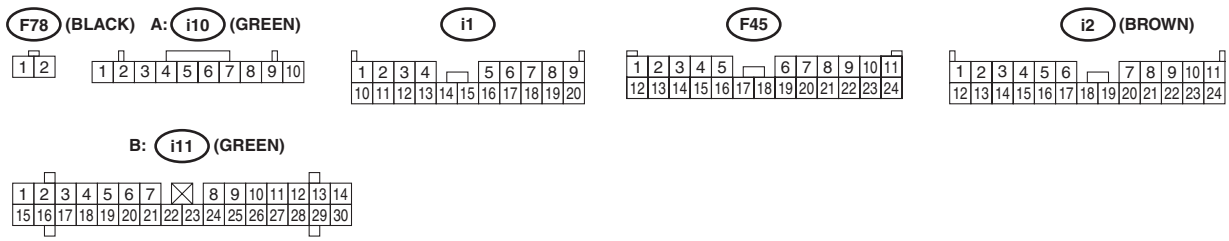
WI-02186

32.Outside Temperature Display System

A: SCHEMATIC

O/TEMP-01

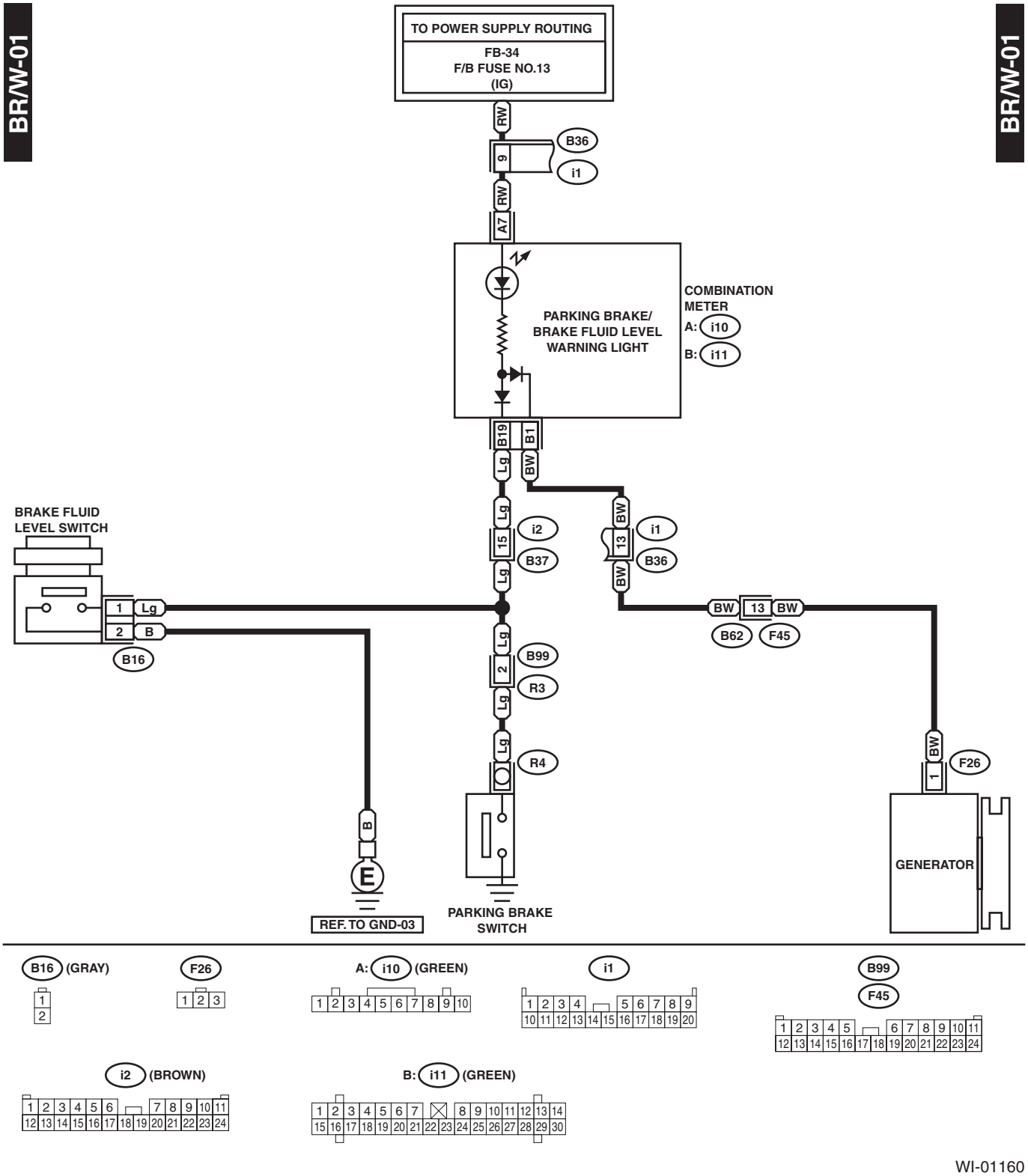




WI-01159

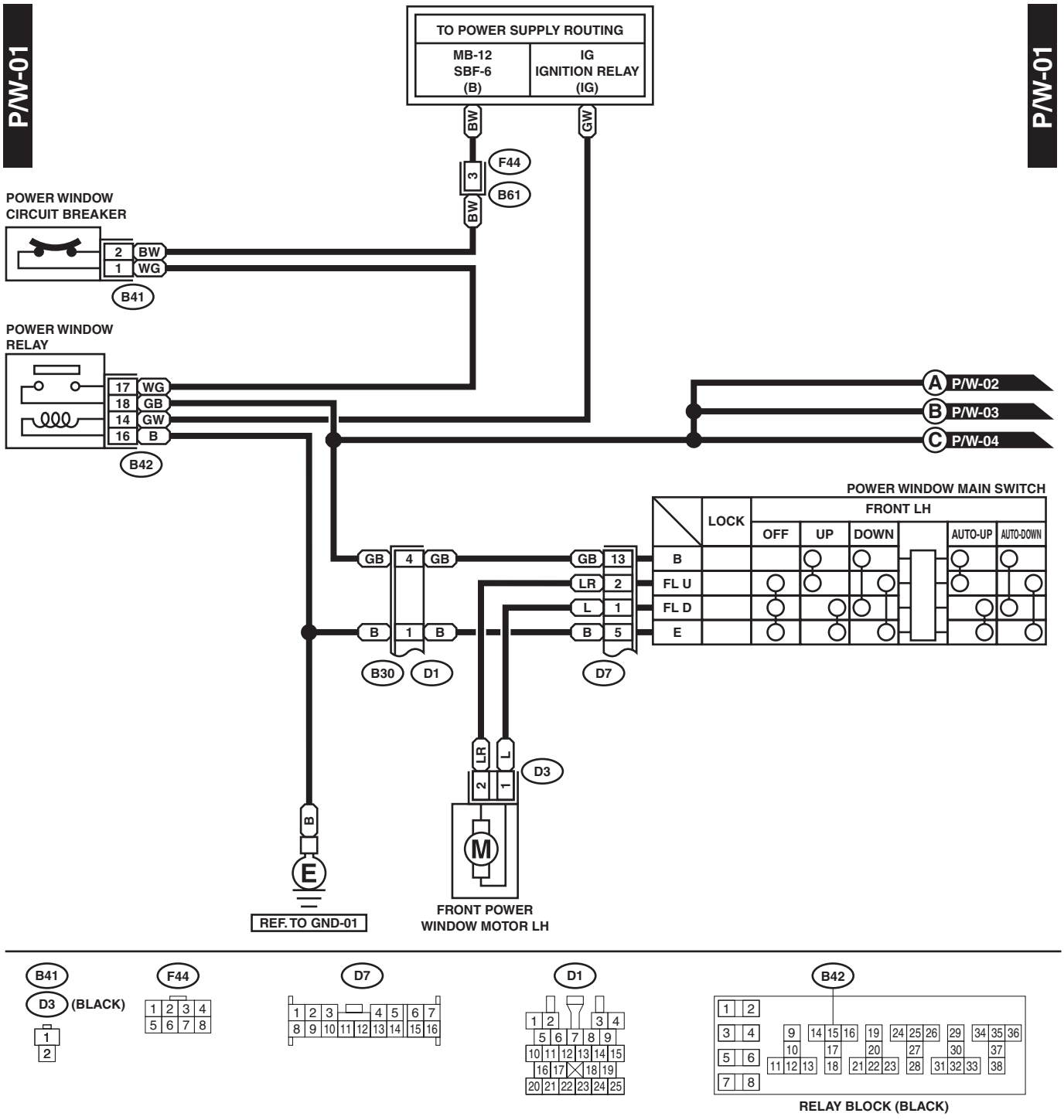
33.Parking Brake and Brake Fluid Level Warning System

A: SCHEMATIC



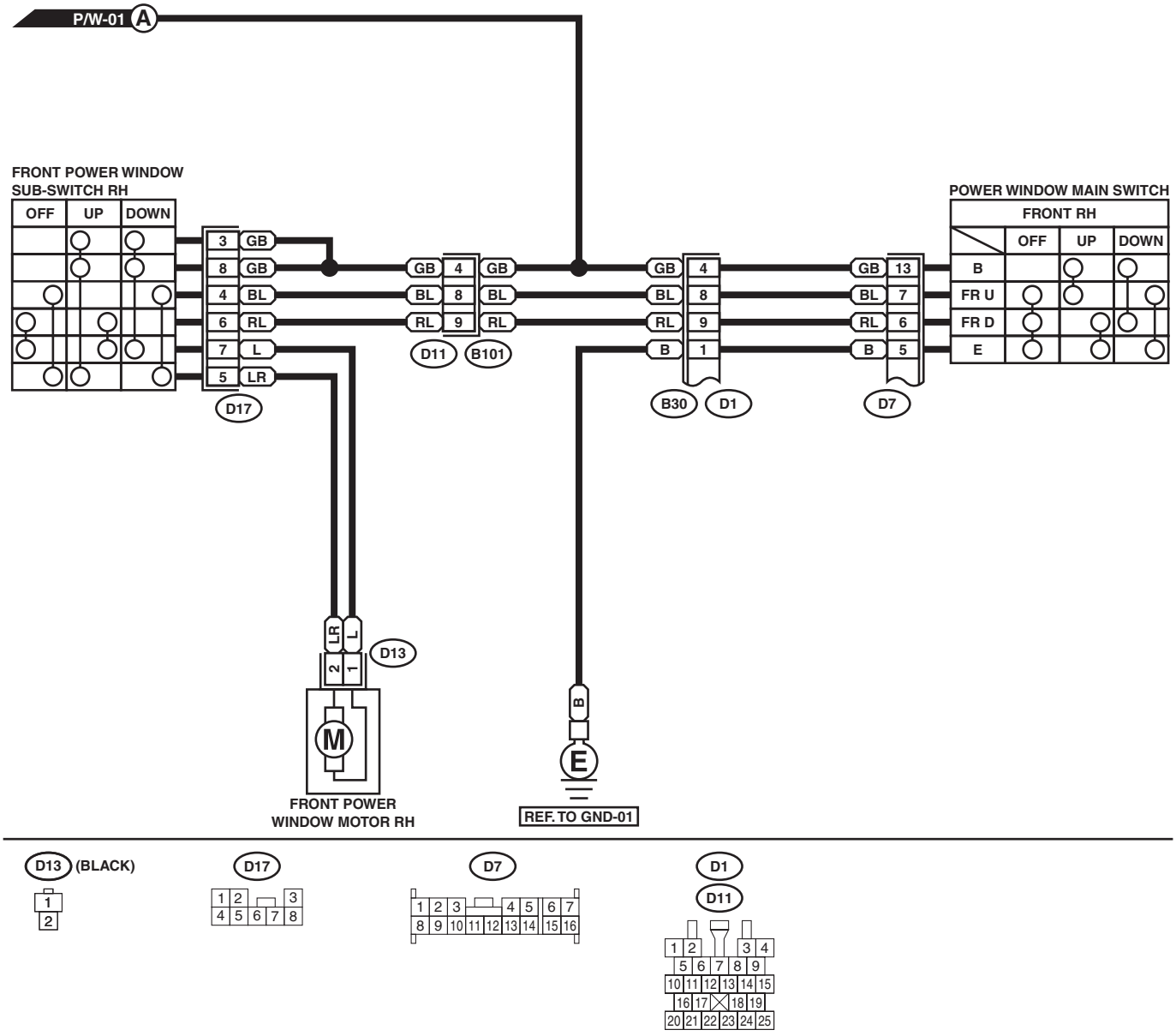
34.Power Window System

A: SCHEMATIC



WI-01161

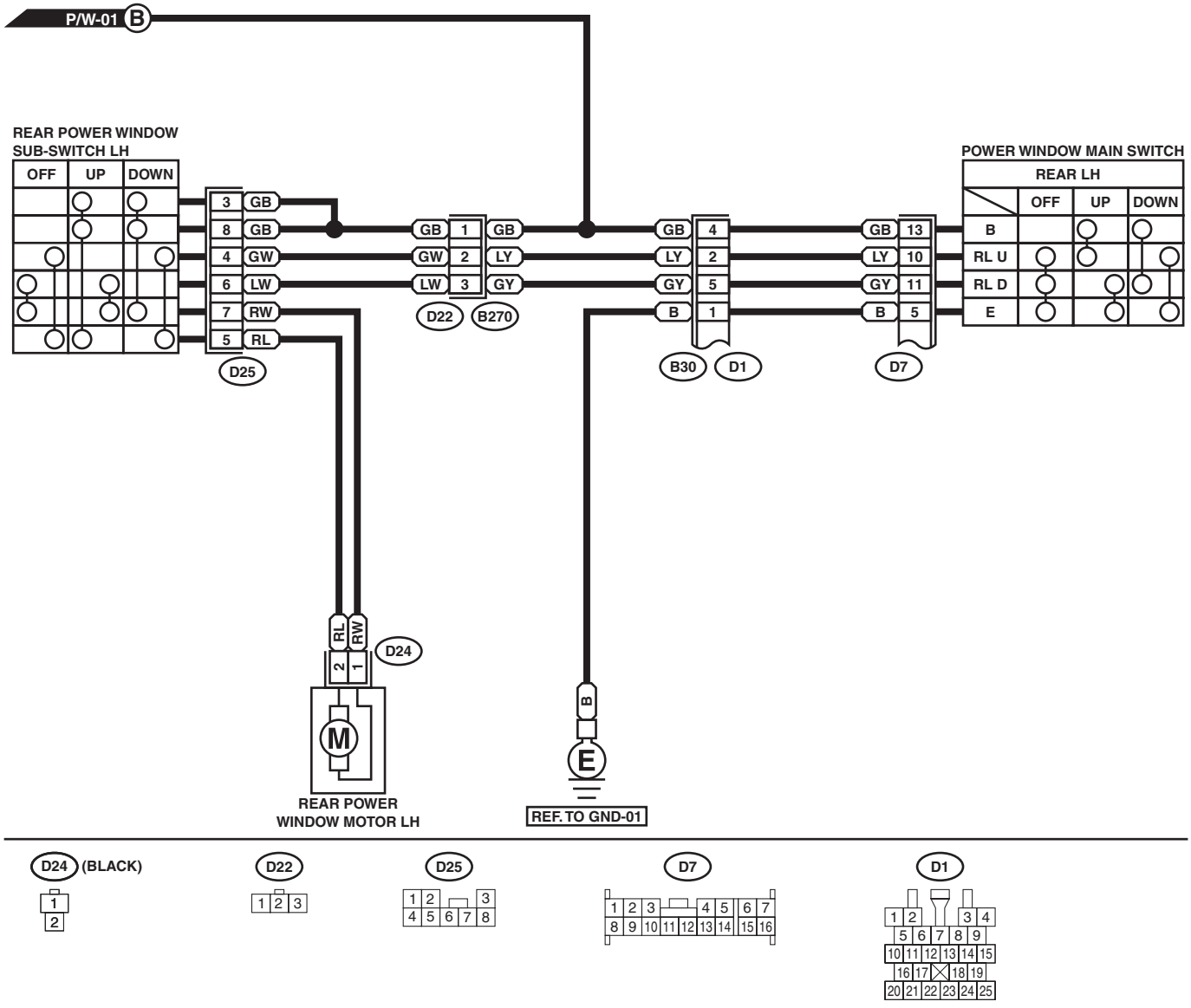
P/W-02



WI-02187

P/W-03

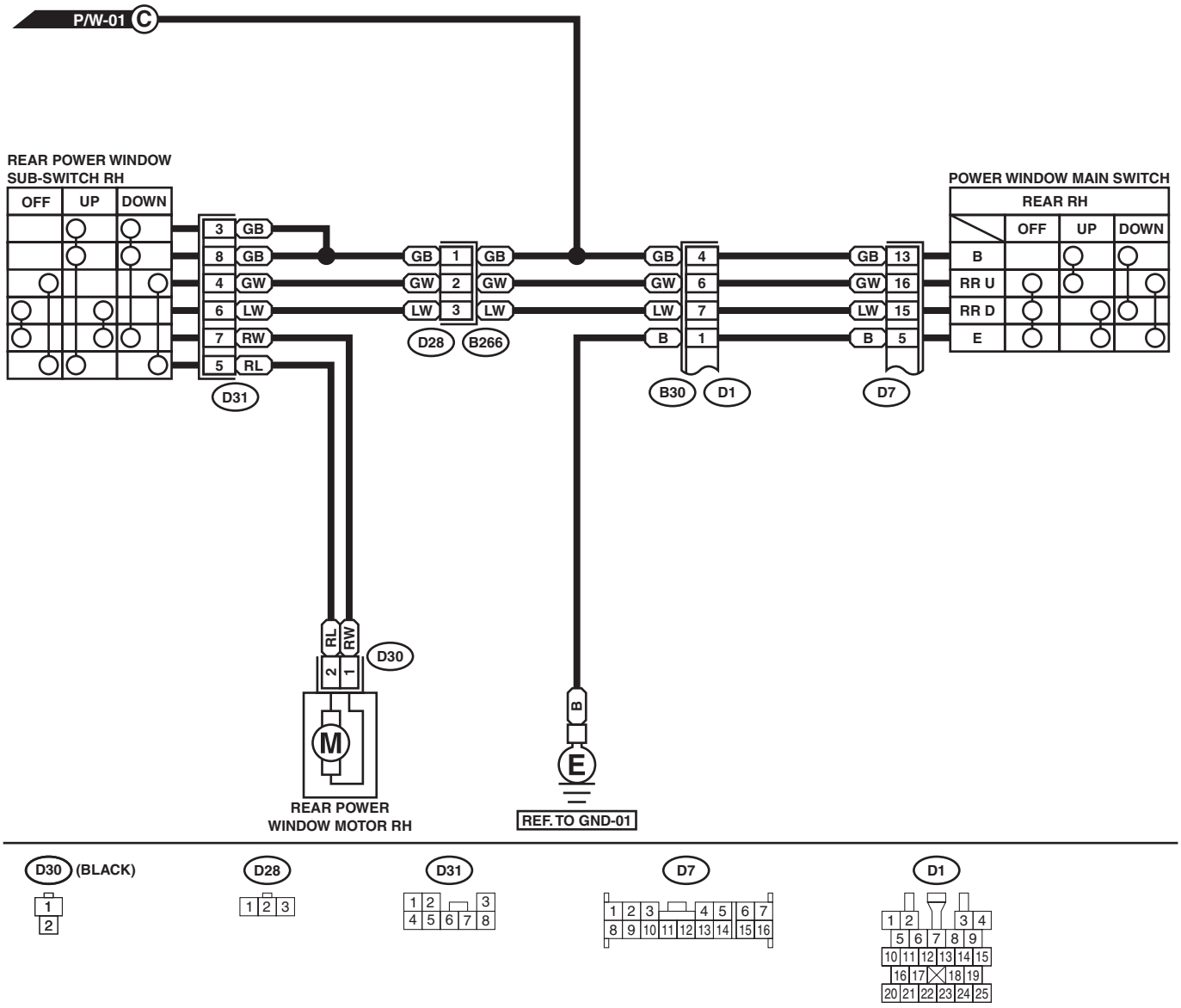
P/W-03



WI-02188

P/W-04

P/W-04

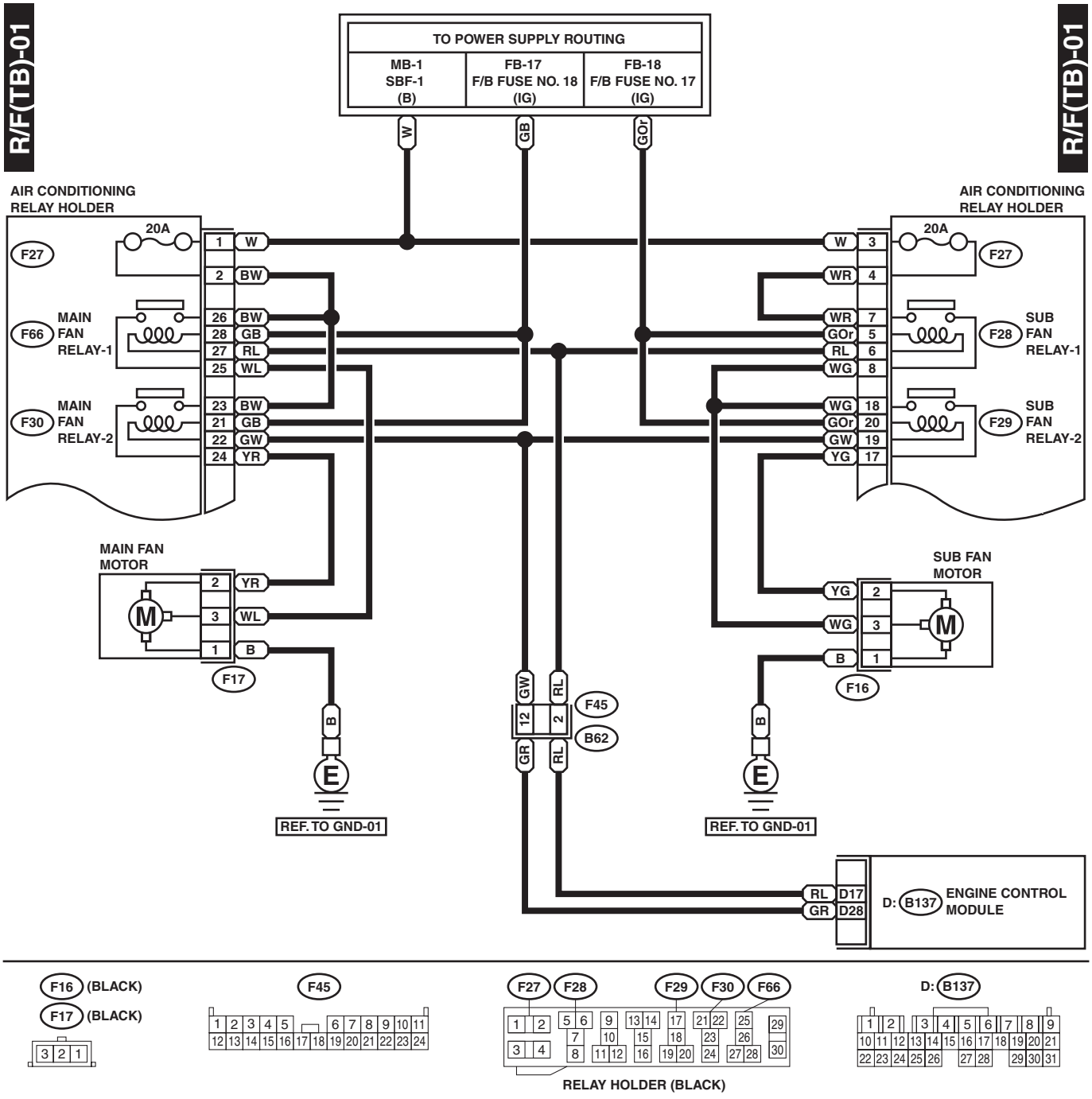


WI-02189

35.Radiator Fan System

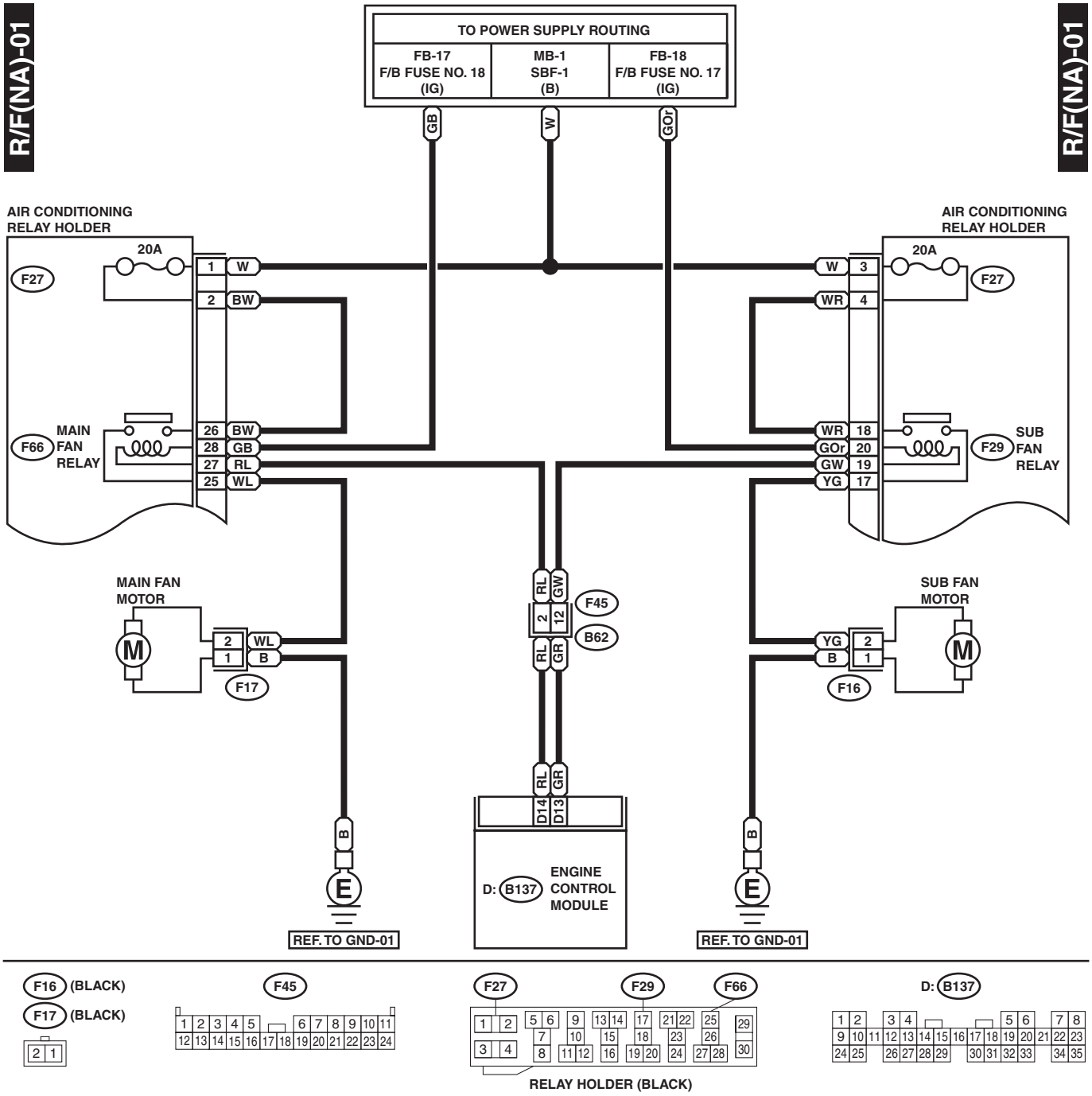
A: SCHEMATIC

1. TURBO ENGINE MODEL



WI-01162

2. NON-TURBO ENGINE MODEL

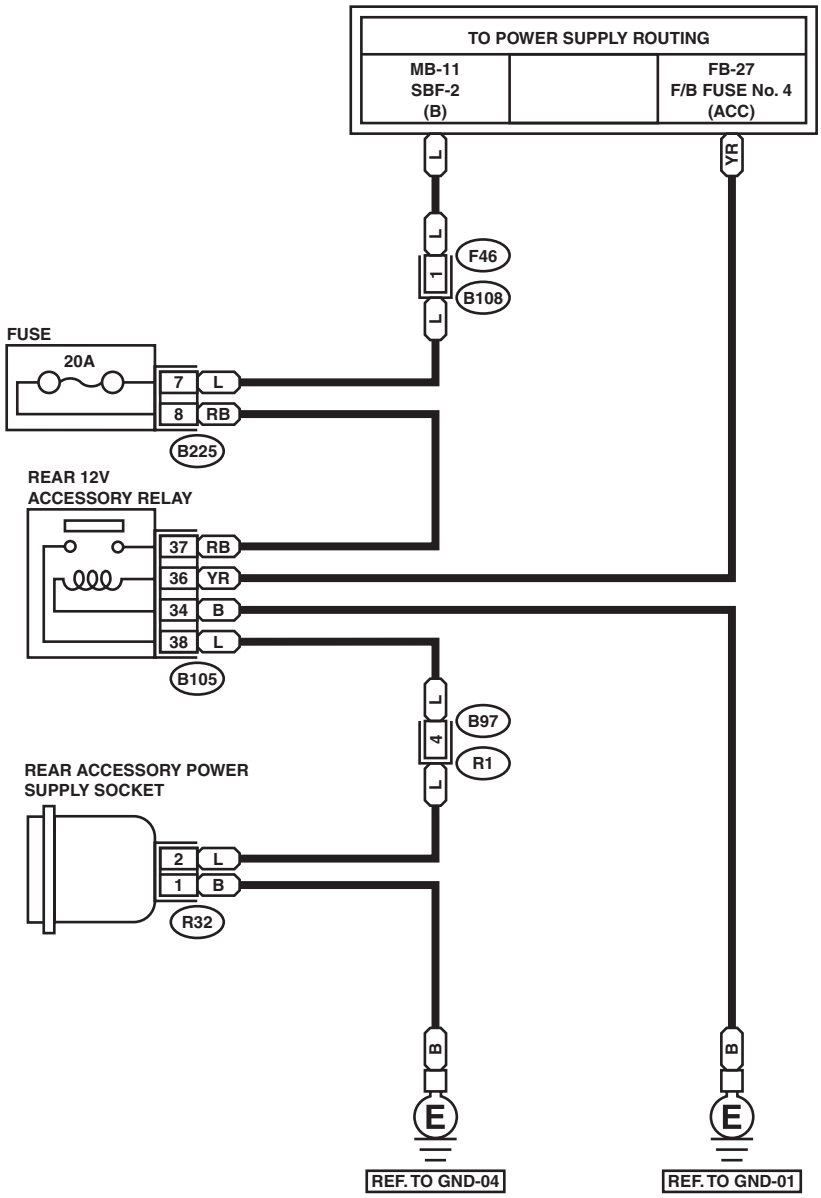


WI-01163

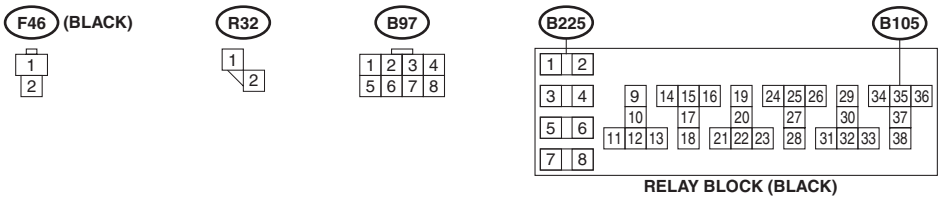
36.Rear Accessory Power Supply System

A: SCHEMATIC

RAPS-01



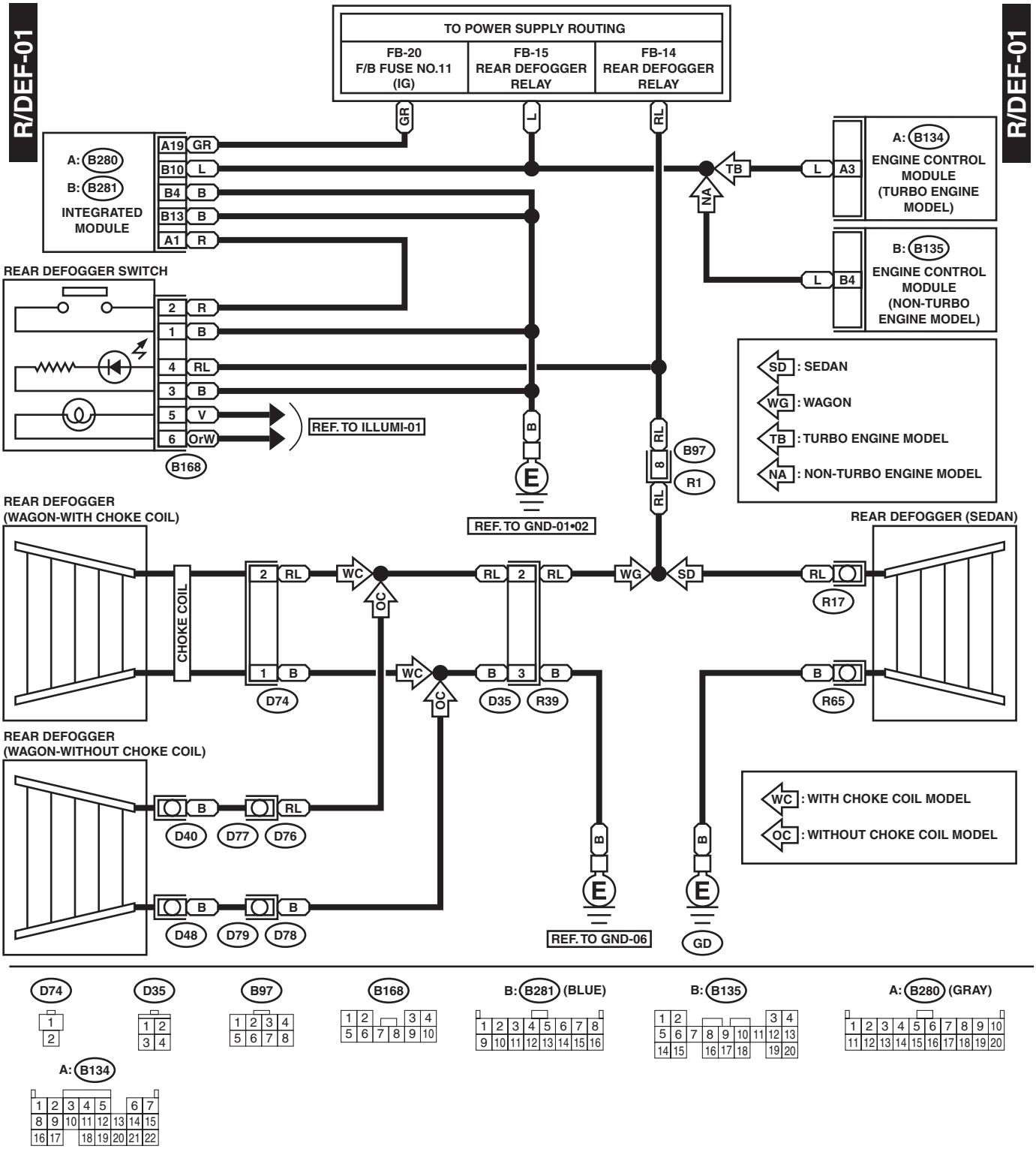
RAPS-01



WI-01164

37.Rear Window Defogger System

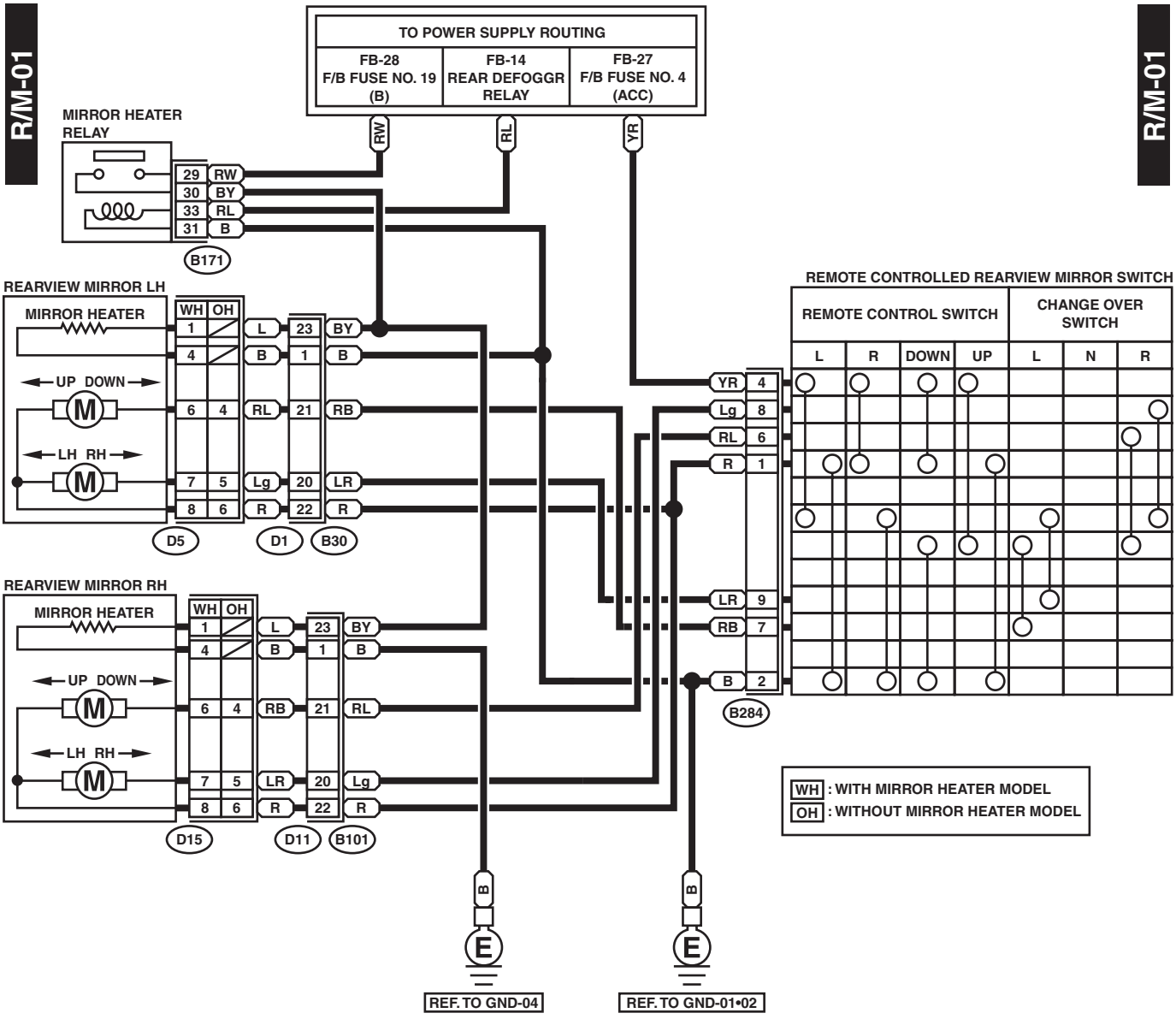
A: SCHEMATIC



WI-01165

38.Remote Controlled Rearview Mirror System

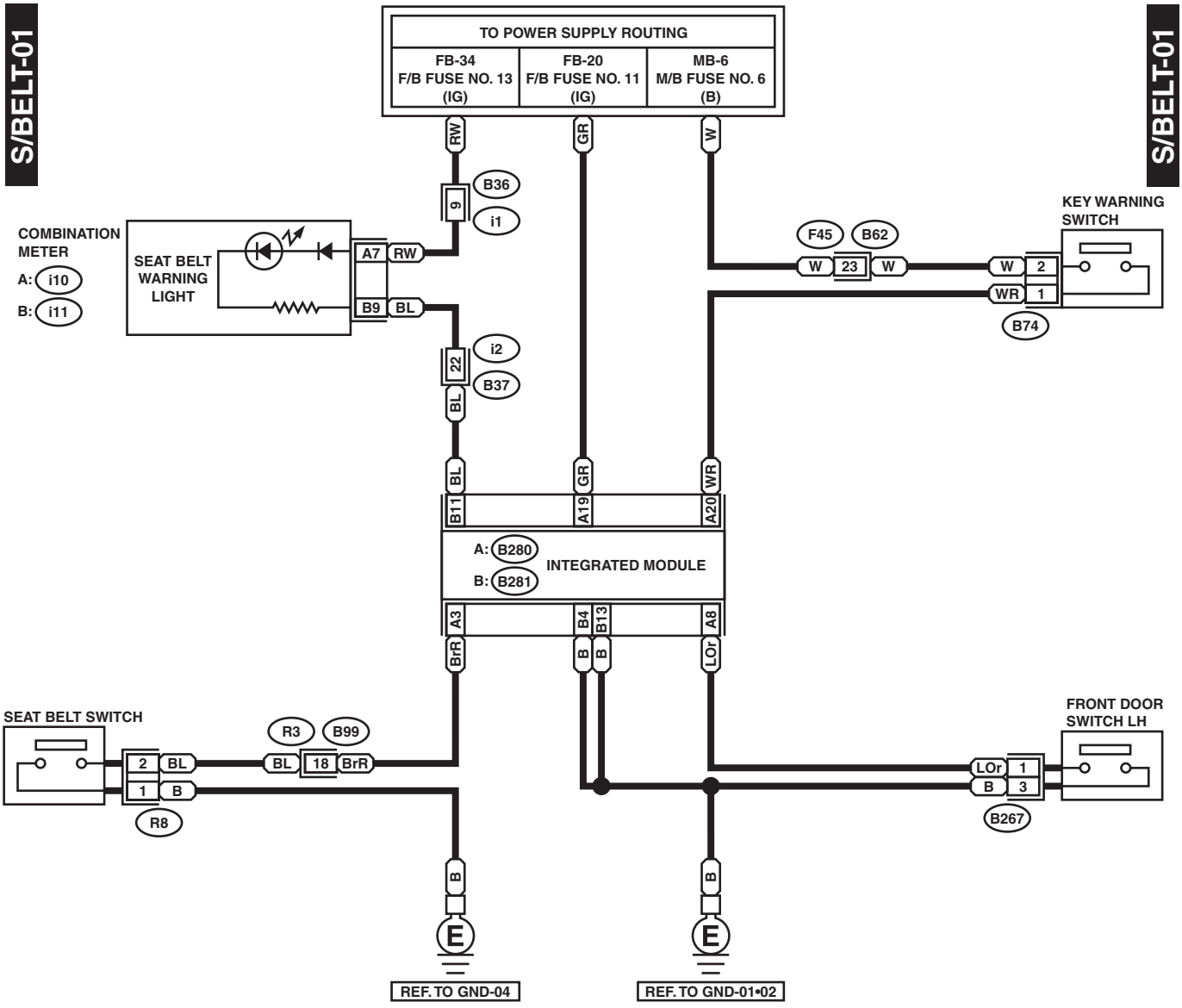
A: SCHEMATIC

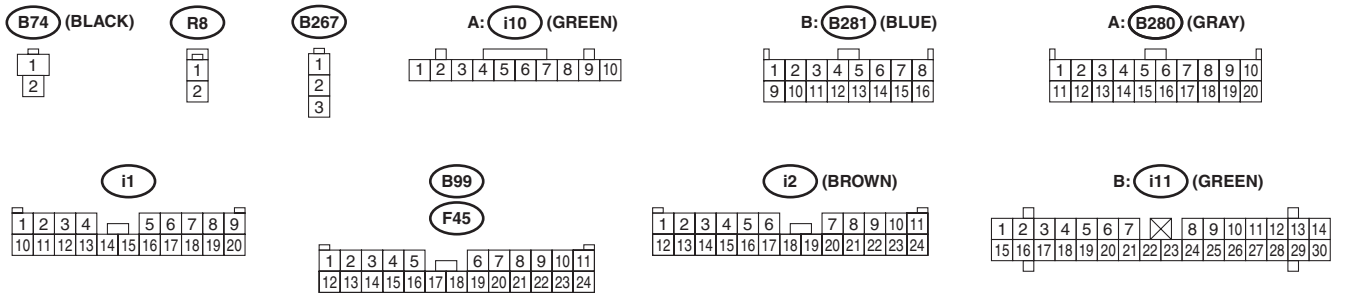


WI-01166

39.Seat Belt Warning and Key Warning System

A: SCHEMATIC

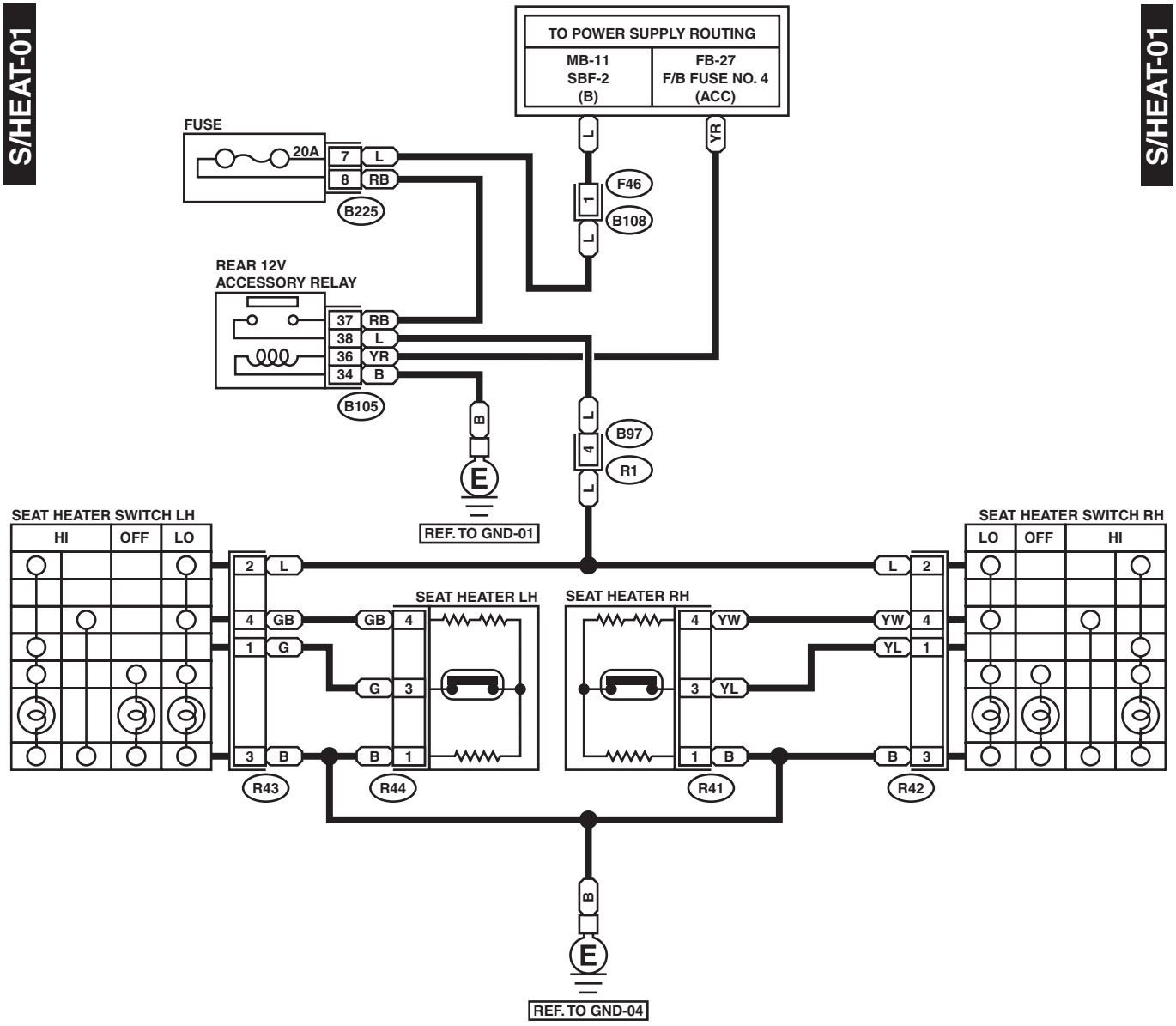


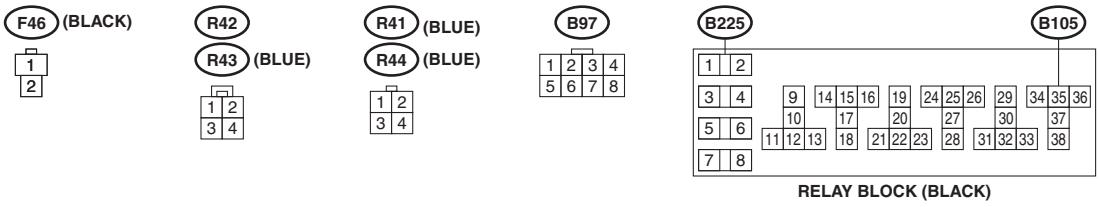


WI-01167

40.Seat Heater System

A: SCHEMATIC

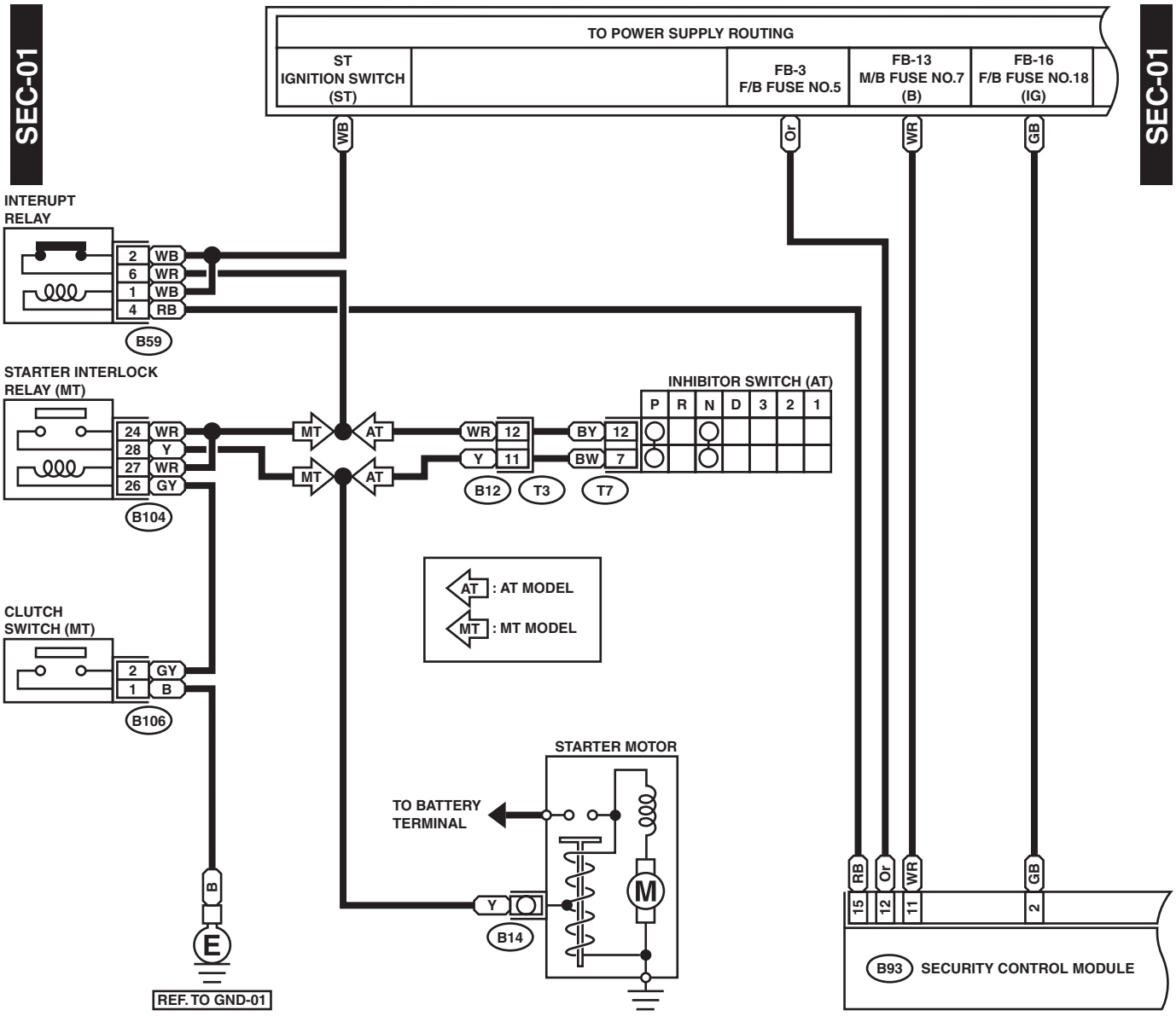


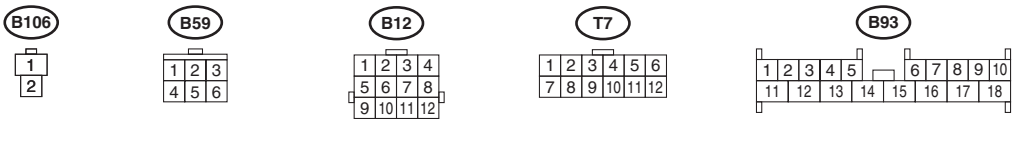


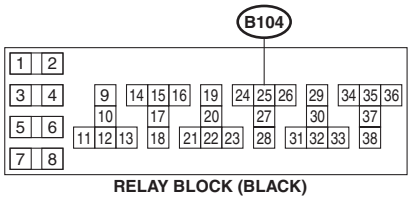
WI-01168

41.Security System

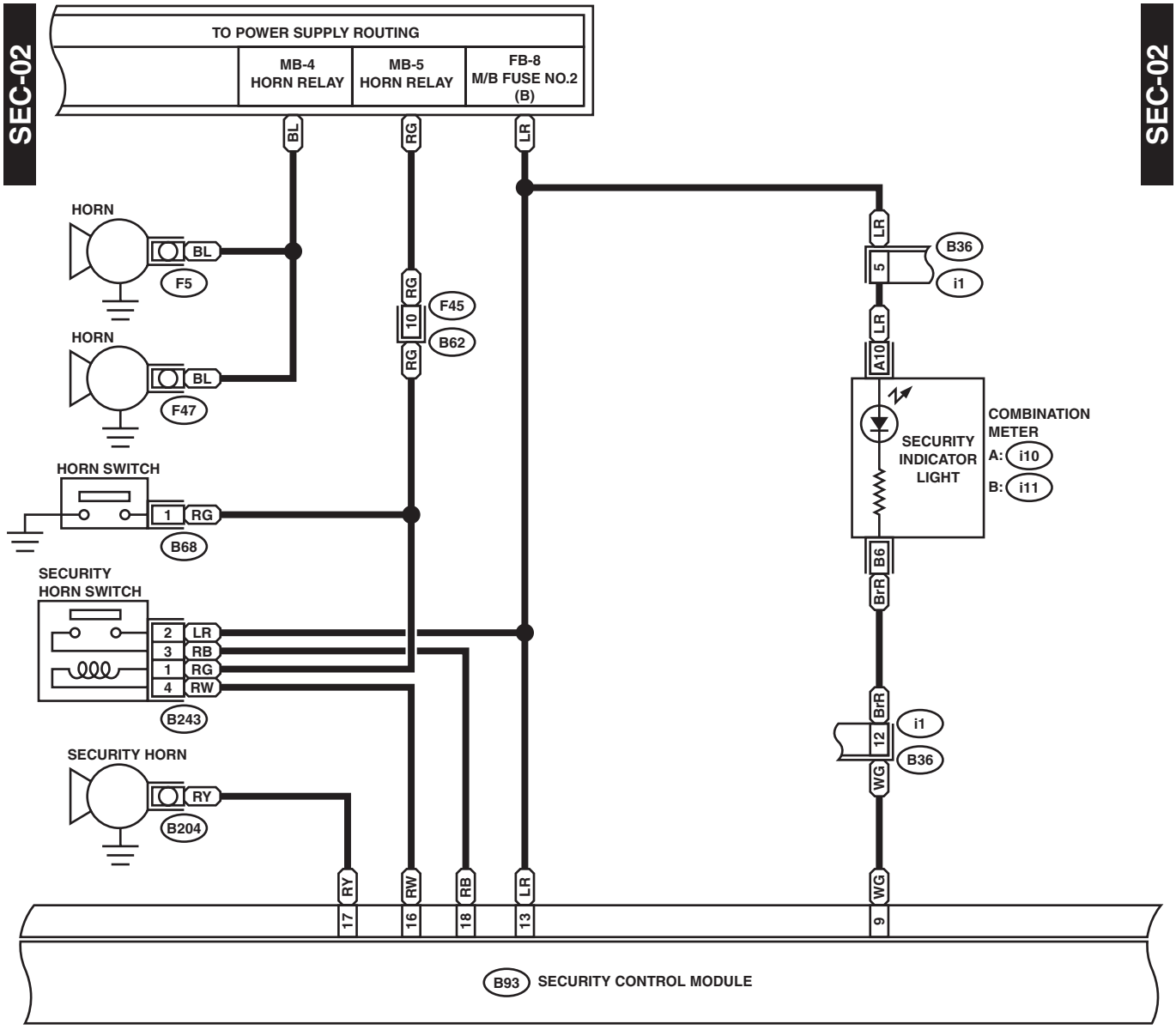
A: SCHEMATIC

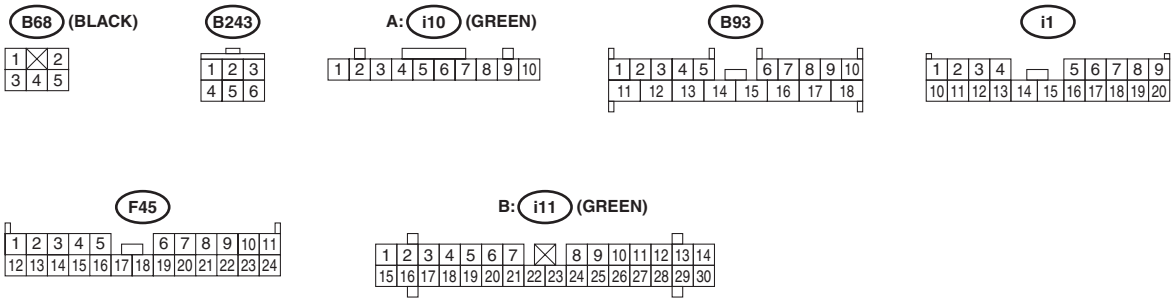




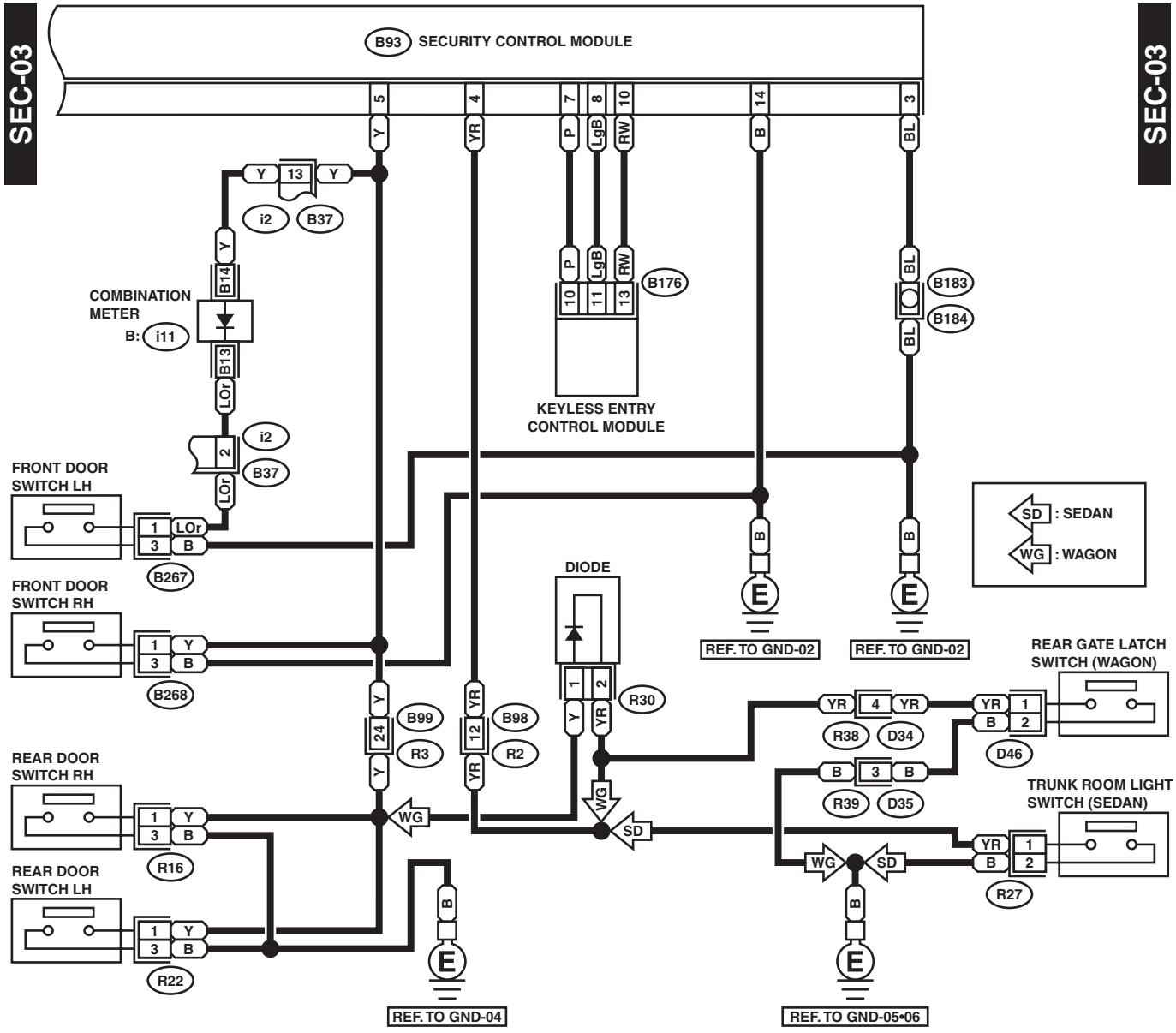


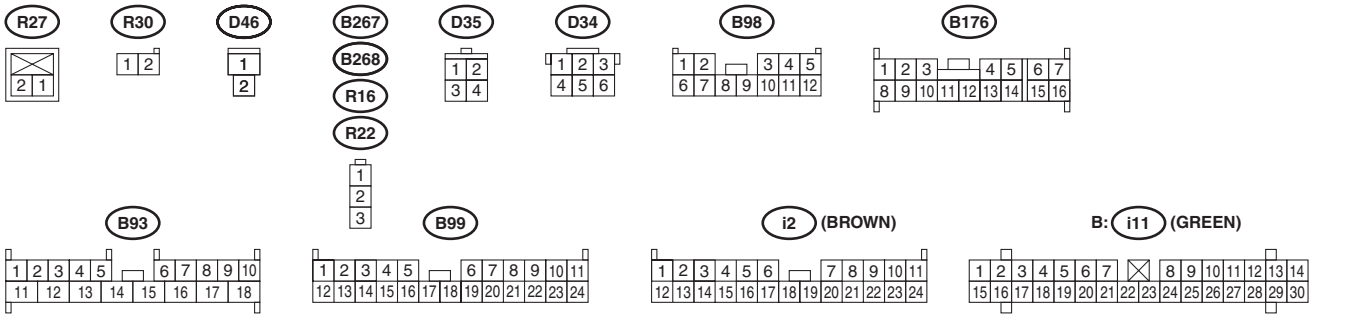
WI-01169


SEC-02
SEC-02
TO POWER SUPPLY ROUTING
MB-4 HORN RELAY
MB-5 HORN RELAY
FB-8 M/B FUSE NO.2 (B)
BL
RG
LR
HORN
BL
F5
HORN
BL
F47
RG
10
F45
B62
RG
HORN SWITCH
1
RG
B68
SECURITY HORN SWITCH
2
LR
3
RB
1
RG
4
RW
B243
SECURITY HORN
RY
B204
LR
5
B36
i1
LR
A10
COMBINATION METER
SECURITY INDICATOR LIGHT
A: i10
B: i11
B6
BrR
BrR
12
i1
B36
WG
RY
RW
RB
LR
WG
17
16
18
13
9
B93
SECURITY CONTROL MODULE


B68 (BLACK)
B243
A: i10 (GREEN)
B93
i1
F45
B: i11 (GREEN)

WI-02190


SEC-03
SEC-03
B93 SECURITY CONTROL MODULE
5 4 7 8 10 14 3
Y YR P LgB RW B BL
Y 13 Y
i2 B37
COMBINATION METER
B: i11
B14 B13
LOr
i2 B37
FRONT DOOR SWITCH LH
1 LOr
3 B
B267
FRONT DOOR SWITCH RH
1 Y
3 B
B268
REAR DOOR SWITCH RH
1 Y
3 B
R16
REAR DOOR SWITCH LH
1 Y
3 B
R22
KEYLESS ENTRY CONTROL MODULE
P LgB RW
10 11 13
B176
BL
B183
B184
BL
B
B
REF. TO GND-02
REF. TO GND-02
SD : SEDAN
WG : WAGON
DIODE
1 2
R30
Y YR
Y 24 B99
R3
YR 12 B98
R2
Y
YR
WG
SD
YR 4 YR
R38 D34
YR 1
B 2
D46
REAR GATE LATCH SWITCH (WAGON)
B 3 B
R39 D35
TRUNK ROOM LIGHT SWITCH (SEDAN)
YR 1
B 2
R27
WG SD
B
B
REF. TO GND-04
REF. TO GND-05•06

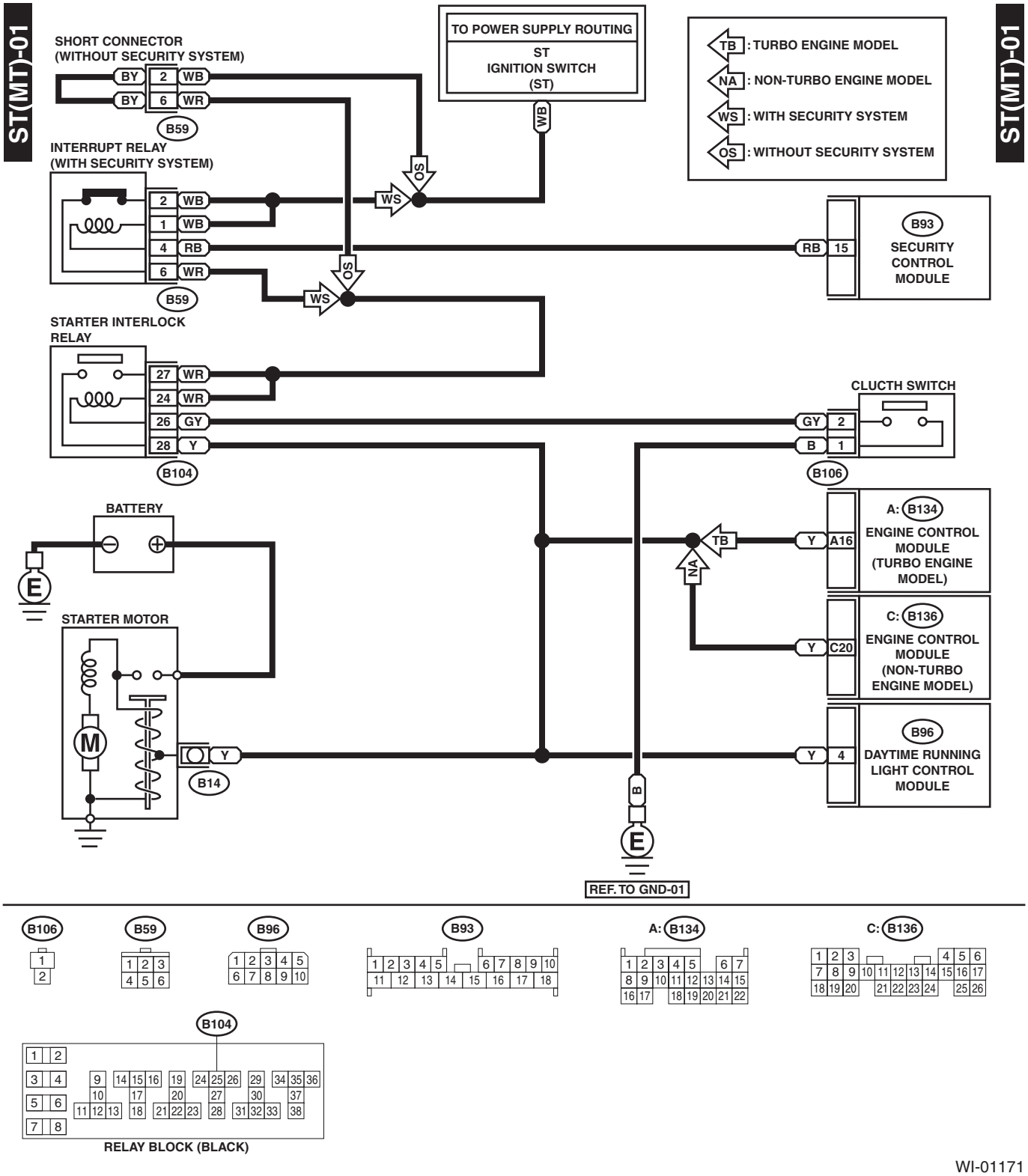

R27
R30
D46
B267
B268
R16
R22
D35
D34
B98
B176
B93
B99
i2 (BROWN)
B: i11 (GREEN)

WI-01170

42.Starter System

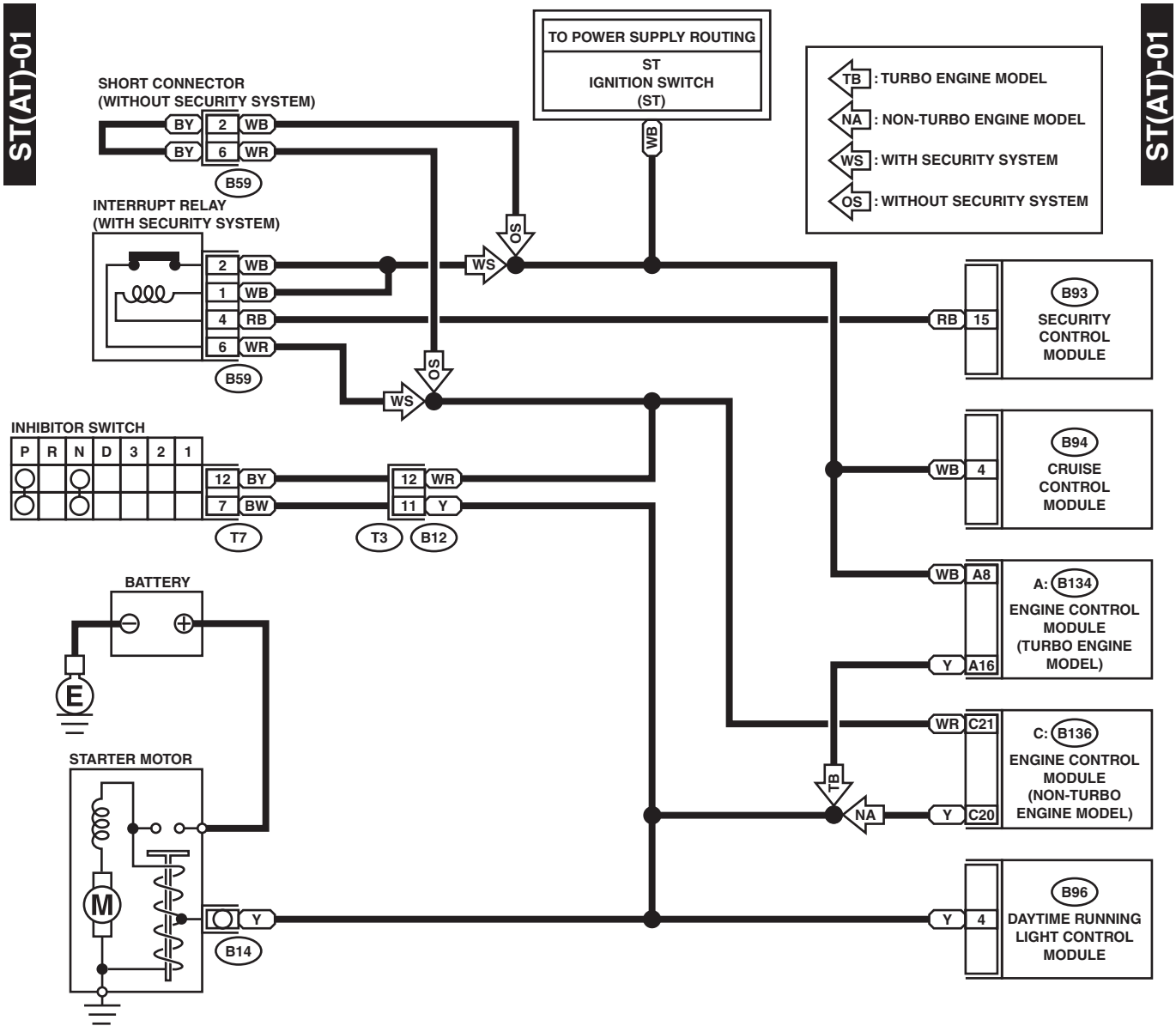
A: SCHEMATIC

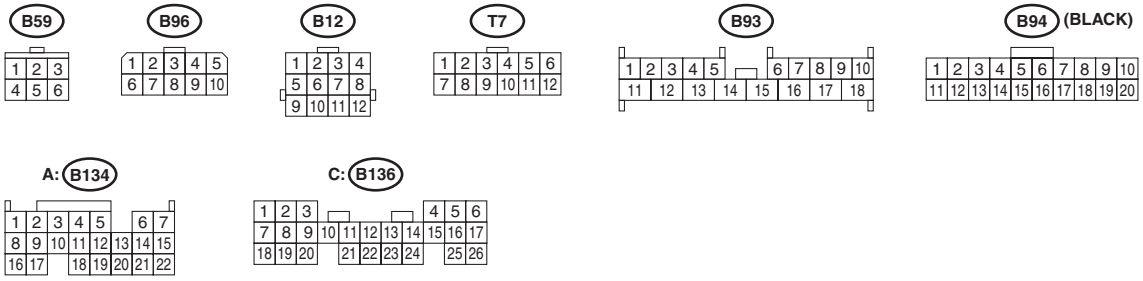
1. TURBO ENGINE MODEL



WI-01171

2. NON-TURBO ENGINE MODEL

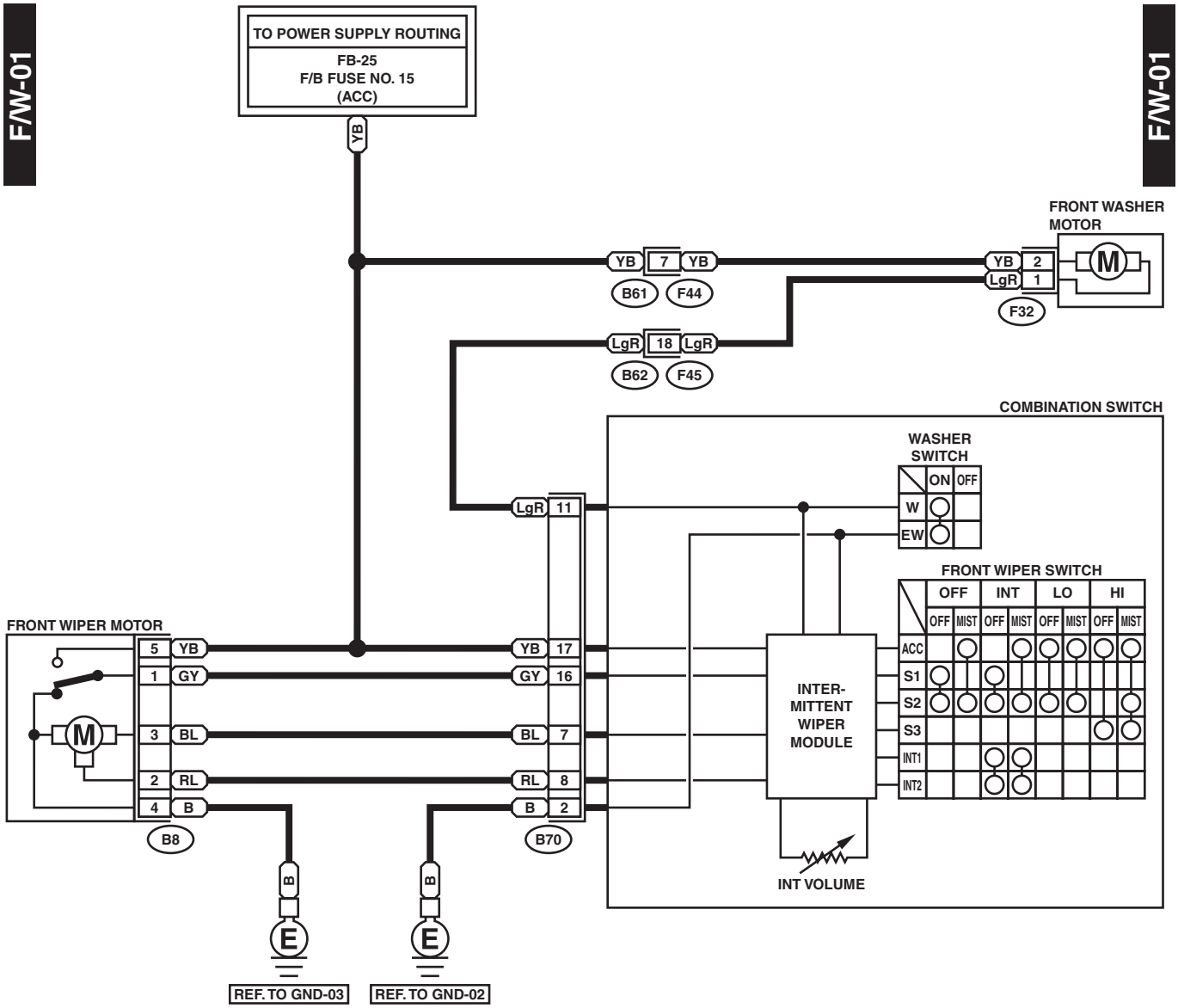


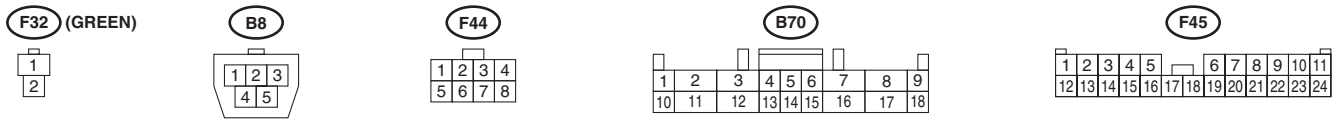


WI-01172

43.Wiper and Washer System (Front)

A: SCHEMATIC

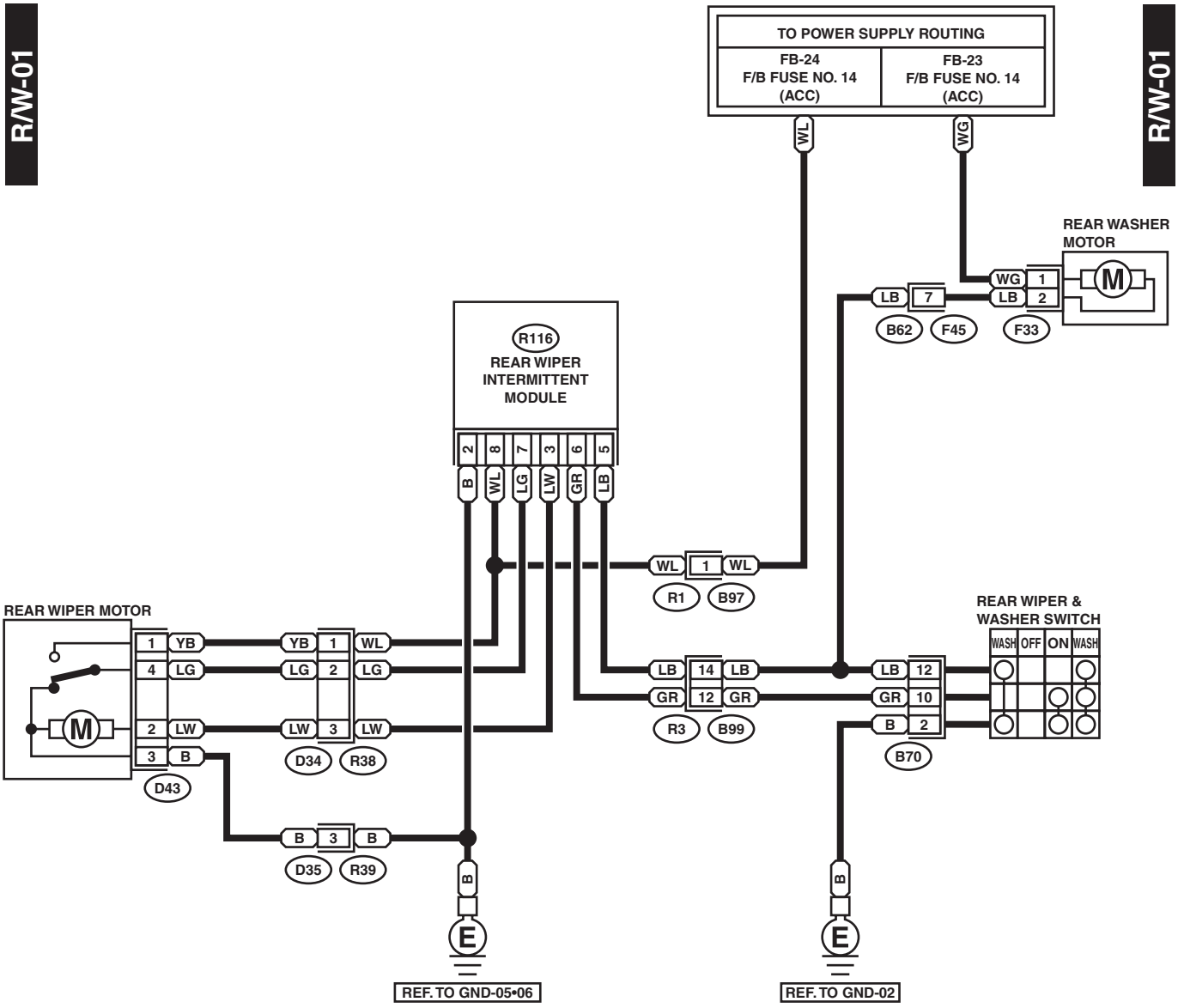


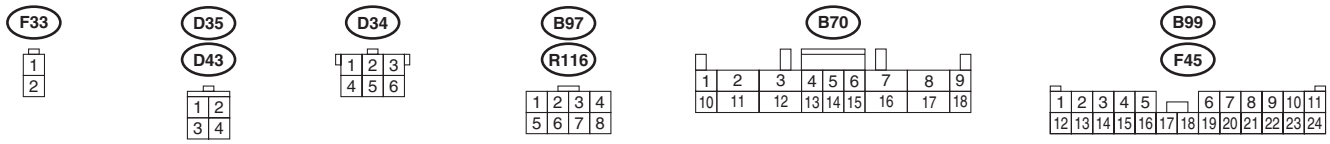


WI-01173

44.Wiper and Washer System (Rear)

A: SCHEMATIC

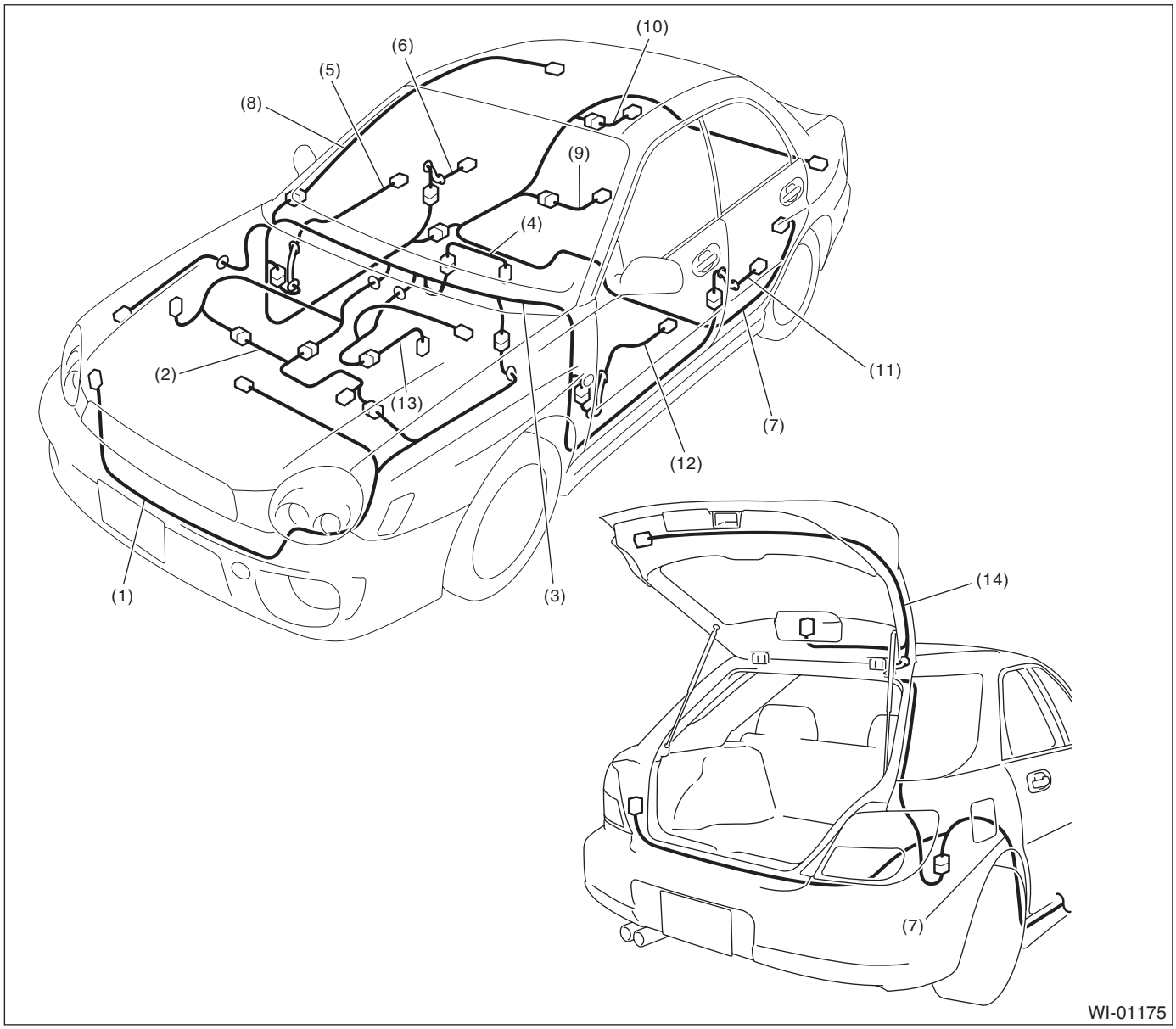




WI-01174

45.Harness Components Location

A: LOCATION



(1) Front wiring harness
(2) Engine wiring harness
(3) Bulkhead wiring harness
(4) Instrument panel wiring harness
(5) Front door cord RH
(6) Rear door cord RH
(7) Rear wiring harness
(8) Roof cord
(9) Fuel tank cord
(10) Trunk lid cord
(11) Rear door cord LH
(12) Front door cord LH
(13) Transmission cord
(14) Rear gate cord

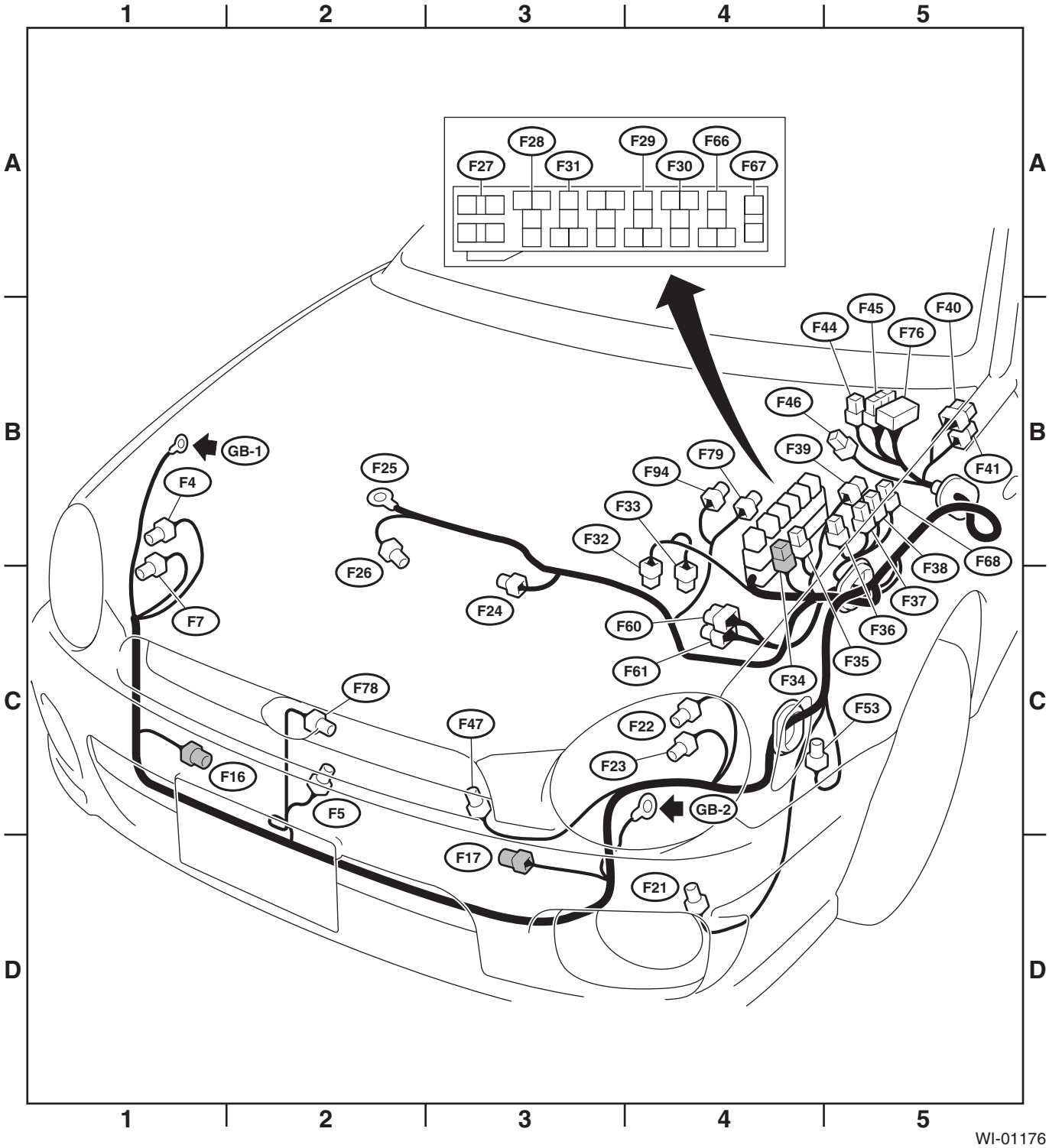
46.Front Wiring Harness

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
F4	3	Gray	B-1		Front turn signal and clearance light RH
F5	1	★	C-2		Horn
F7	3	★	B-1		Headlight RH
F16	2	Black	C-1		Sub fan motor (Non-turbo engine model)
	3	Black	C-1		Sub fan motor (Turbo engine model)
F17	2	Black	D-3		Radiator main fan motor (Non-turbo engine model)
	3	Black	D-3		Radiator main fan motor (Turbo engine model)
F21	2	Black	D-4		Front fog light LH
F22	3	Gray	C-4		Front turn signal and clearance light LH
F23	3	★	C-4		Headlight LH
F24	3	Gray	B-3		A/C compressor
F25	1	★	B-2		Generator
F26	3	Green	B-2		
F27	4	★	A-3		A/C fuse (Relay holder)
F28	4	★	A-3		A/C sub fan relay (Relay holder-non-turbo engine model)
	4	★	A-3		A/C sub fan relay-1 (Relay holder-turbo engine model)
F29	4	★	A-4		A/C sub fan relay-2 (Relay holder-turbo engine model)
F30	4	★	A-4		Radiator main fan relay-2 (Relay holder-turbo engine model)
F31	4	★	A-3		A/C relay (Relay holder)
F32	2	Green	C-4		Front washer motor
F33	2	★	C-4		Rear washer motor
F34	4	★	B-4		SBF holder
F35	2	★	B-4		Main fuse box (M/B)
F36	3	★	B-5		
F37	6	Black	B-5		
F38	1	★	B-5		
F39	8	★	B-5		
F40	9	Brown	B-5		Fuse & relay box (F/B)
F41	7	Gray	B-5		
F44	8	★	B-5	B61	Bulkhead wiring harness
F45	24	★	B-5	B62	
F46	2	Black	B-5	B108	
F47	1	★	C-3		Horn
F53	2	★	C-4		Side marker light LH
F60	16	Brown	B-4	E3	Engine wiring harness (Turbo engine model)
F61	20	Black	C-4	E2	Engine wiring harness (Turbo engine model)
F66	4	★	A-4		Radiator main fan relay (Relay holder-non-turbo engine model)
	4	★	A-4		Radiator main fan relay-1 (Relay holder-turbo engine model)
F67	2	★	A-4		FWD switch (Relay holder)
F68	4	Black	B-5		Main fuse box (M/B)
F76	40	Gray	B-5	B209	Bulkhead wiring harness (SMJ-turbo engine model)
F78	2	Black	C-2		Ambient sensor
F79	2	Gray	B-4		A/C pressure switch
F94	2	Gray	B-4		ABS front sensor LH

★: Non-colored

FRONT WIRING HARNESS



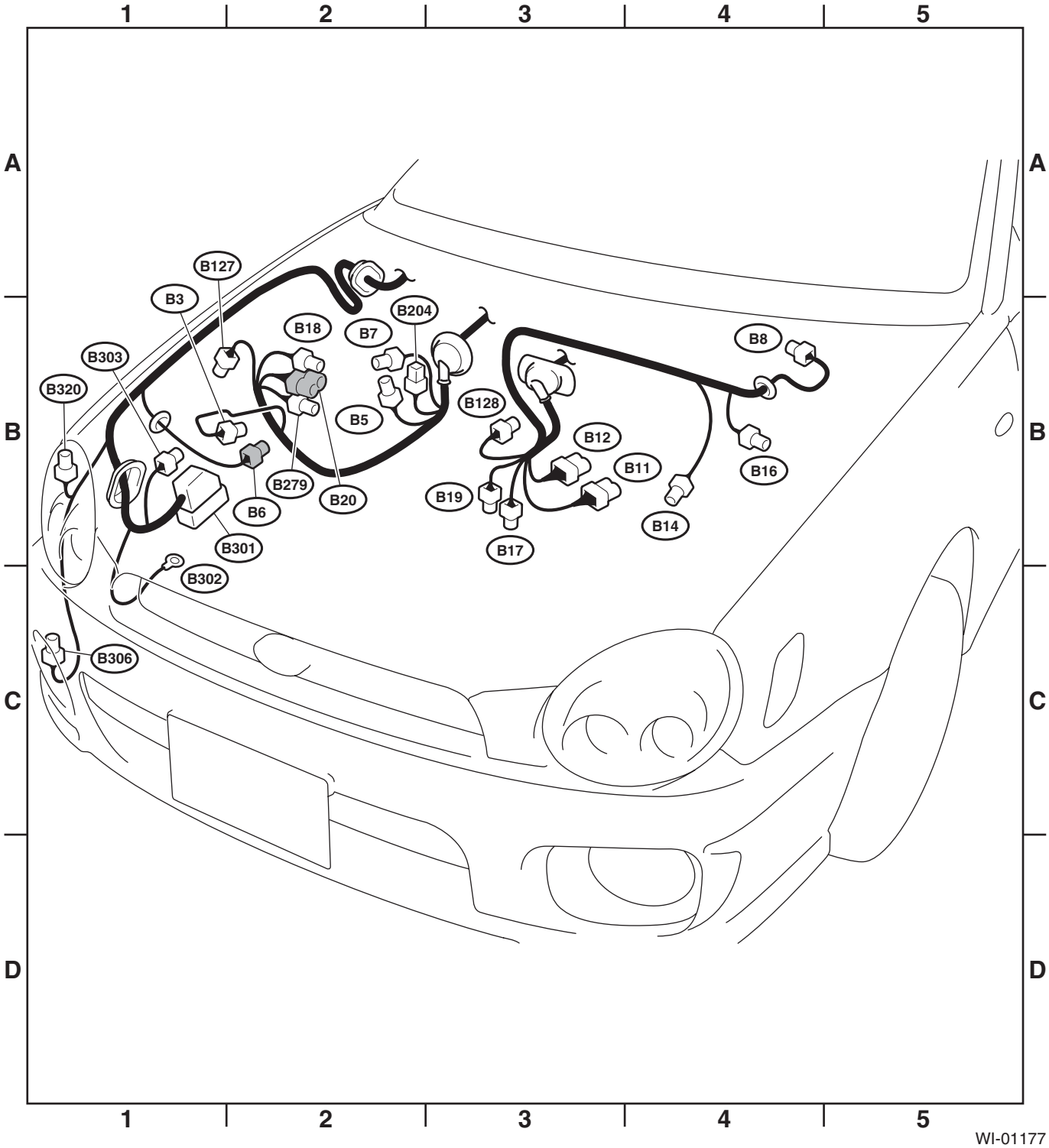
47.Bulkhead Wiring Harness (In Engine Room)

A: LOCATION

1. TURBO ENGINE MODEL

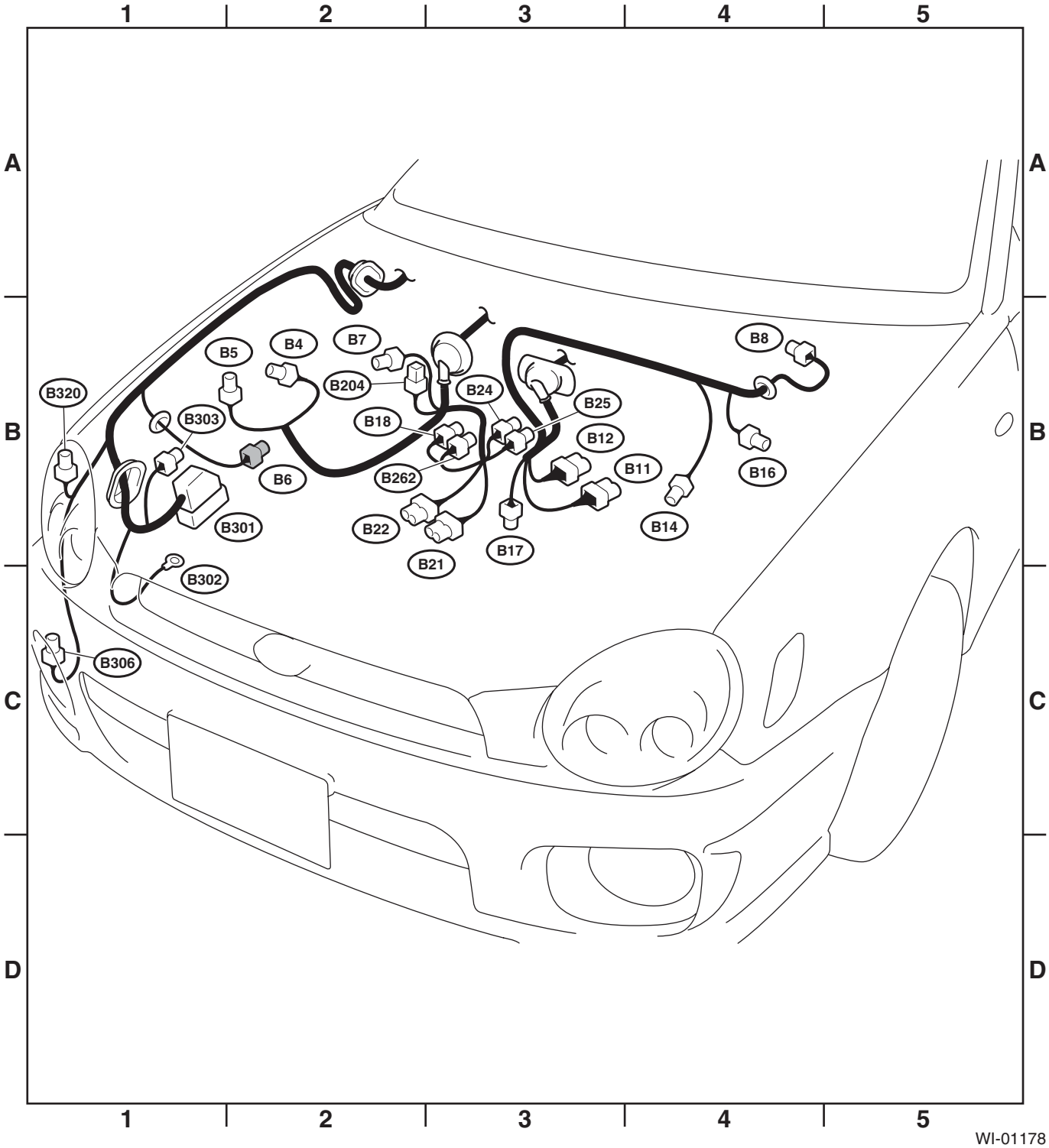
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B3	5	★	B-2		Mass air flow sensor
B5	2	Gray	B-2		Resistor (Daytime running light)
B6	2	Gray	B-2		ABS front sensor RH
B7	6	Black	B-2		Cruise control actuator
B8	5	★	B-4		Front wiper motor
B11	20	Black	B-3	T4	Transmission (AT)
B12	12	★	B-3	T3	
B14	1	Black	B-4		Starter (Magnet)
B16	2	Gray	B-4		Brake fluid level switch
B17	4	★	B-3		Vehicle speed sensor (MT)
B18	4	★	B-2		Front oxygen (A/F) sensor
B19	4	★	B-3		Rear oxygen sensor
B20	10	Light gray	B-2	E1	Engine wiring harness
B127	2	Blue	B-1		Wastegate solenoid
B128	4	★	B-3	T9	Transmission cord (MT)
B204	1	★	B-2		Security horn
B279	2	★	B-2		Exhaust gas temperature sensor
B301	31	★	B-1		ABS control module
B302	1	★	B-1		ABS motor ground
B303	8	Gray	B-1		Shield joint connector (ABS)
B306	2	Black	C-1		Front fog light RH
B320	2	★	B-1		Side marker light RH
★: Non-colored					

BULKHEAD WIRING HARNESS (IN ENGINE ROOM)



2. NON-TURBO ENGINE MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B4	4	Gray	B-2		AT dropping resistor
B5	2	Gray	B-2		Resistor (Daytime running light)
B6	2	Gray	B-2		ABS front sensor RH
B7	6	Black	B-2		Cruise control actuator
B8	5	★	A-4		Front wiper motor
B11	20	Black	B-3	T4	Transmission (AT)
B12	12	★	B-3	T3	
B14	1	Black	B-4		Starter (Magnet)
B16	2	Gray	B-4		Brake fluid level switch
B17	3	★	B-3		Vehicle speed sensor (MT)
B18	4	Black	B-3		Rear oxygen sensor
B21	20	Gray	B-3	E2	Engine wiring harness
B22	16	Brown	B-2	E3	
B24	2	Gray	B-3	T1	Back-up light switch (MT)
B25	2	Brown	B-3	T2	Neutral position switch (MT)
B204	1	★	B-2		Security horn
B262	4	★	B-3		Front oxygen (A/F) sensor
B301	31	★	B-1		ABS control module
B302	1	★	B-1		ABS motor ground
B303	8	Gray	B-1		Shield joint connector (ABS)
B306	2	Black	C-1		Front fog light RH
B320	2	★	B-1		Side marker light RH
★: Non-colored					


1
2
3
4
5
A
B
C
D
B320
B303
B5
B4
B7
B204
B24
B18
B25
B12
B11
B16
B8
B6
B262
B301
B22
B21
B17
B14
B302
B306
WI-01178

48.Bulkhead Wiring Harness (In Compartment)

A: LOCATION

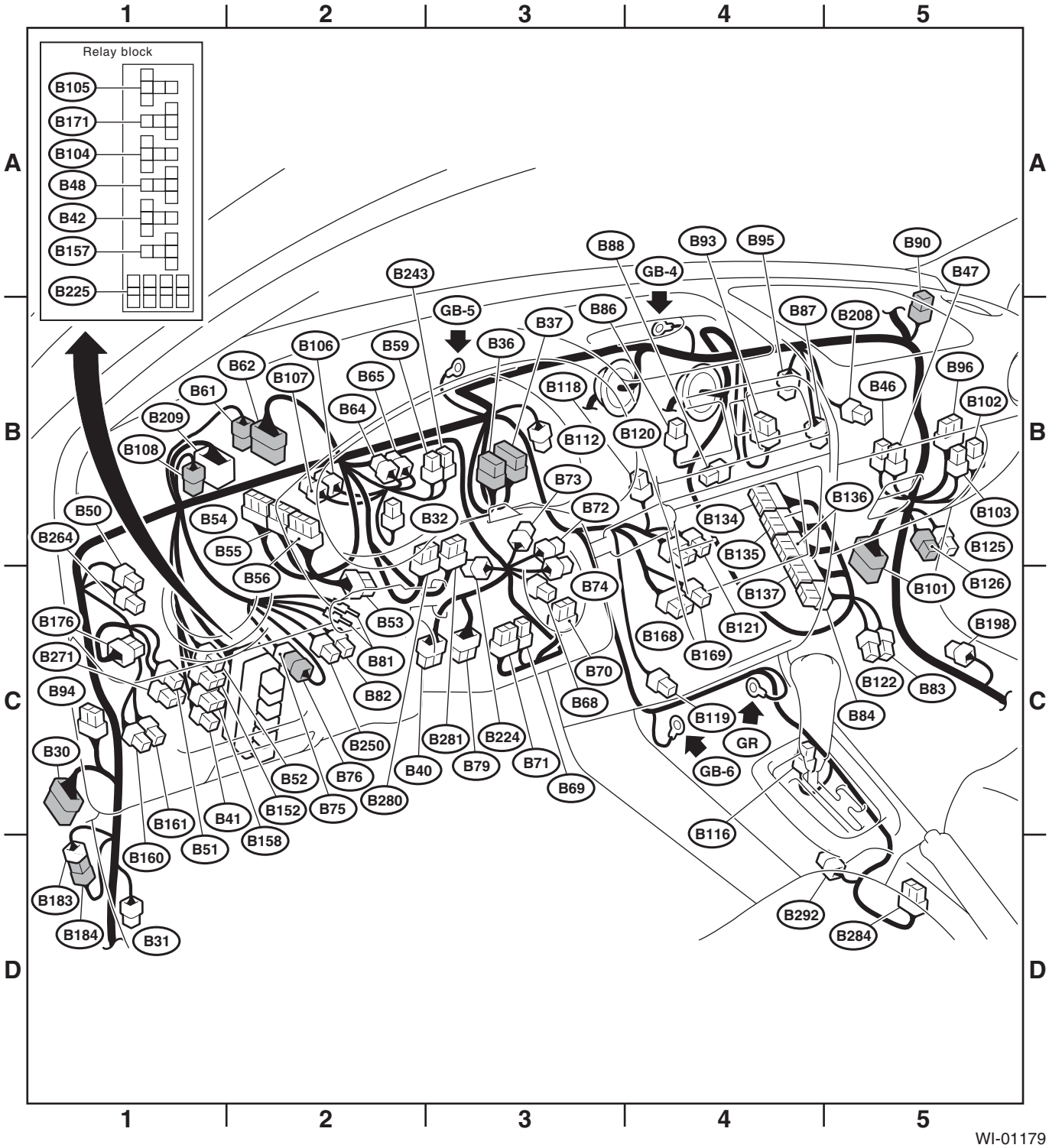
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B30	25	★	C-1	D1	Front door cord LH
B31	6	Yellow	D-1	AB1	SRS (Airbag) harness
B32	3	Black	B-2		Turn & hazard module
B36	20	★	B-3	i1	Instrument panel wiring harness
B37	24	Brown	B-3	i2	
B40	16	★	C-3		Data link connector
B41	2	★	C-1		Power window circuit breaker
B42	5	★	C-2		Power window relay (Relay block)
B46	4	Green	B-5		Fuel pump relay
B47	6	Brown	B-5		Main relay
B48	5	★	C-2		Front fog light relay (Relay block)
B50	4	★	C-1		Blower fan motor relay
B51	8	Blue	C-1		Fuse & relay box (F/B)
B52	7	★	C-1		
B53	12	Black	C-2		Shield joint connector (AT-turbo engine model)
	8	★	C-2		Shield joint connector (AT-non-turbo engine model)
B54	24	★	B-2		Transmission control module
B55	24	Gray	B-2		
B56	24	Green	B-2		Transmission control module (Turbo engine model)
B59	6	★	B-3		Interrupt relay (Security)
B61	8	★	B-2	F44	Front wiring harness
B62	24	★	B-2	F45	
B64	2	Black	B-2		Stop light switch (Without cruise control model)
B65	4	Black	B-2		Stop light and brake switch (With cruise control model)
B68	5	Black	C-3		Cruise control sub switch
B69	4	★	C-3		Combination switch
B70	18	★	C-3		
B71	17	★	C-3		
B72	4	Blue	B-3		Ignition switch
B73	2	★	B-3		Key lock solenoid (AT)
B74	2	Black	C-3		Key warning switch
B75	2	Green	C-2	B76	Test mode connector
B76	2	Green	C-2	B75	
B79	14	Gray	C-3		Check connector

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B81	1 × 2	★	C-2		Diagnosis terminal (Ground)
B82	6	Black	C-2		Diagnosis connector
B83	8	★	C-5		Shield & sensor ground joint connector (E/G-turbo engine model)
B84	17	★	C-4		Engine control module (Turbo engine model)
B86	4	Brown	B-4		Blower fan motor resistor
B87	2	★	B-4		Blower fan motor
B88	4	Brown	B-4		Evaporation thermoswitch
B90	6	★	B-5	R50	Roof cord
B93	18	★	B-4		Security control module
B94	20	Black	C-1		Cruise control module
B95	2	★	B-4		Diode (Daytime running light)
B96	10	★	B-5		Daytime running light control module
B101	25	★	C-5	D11	Front door cord RH
B102	5	★	B-5		Daytime running light relay
B103	4	★	B-5		Hi-beam relay (Daytime running light)
B104	5	★	C-2		Starter interlock relay (MT-relay block)
B105	5	★	C-2		Rear 12V accessory relay (Relay block)
B106	2	★	B-2		Clutch switch (MT)
B107	2	Blue	B-2		Clutch switch (MT-cruise control)
B108	2	Black	B-1	F46	Front wiring harness
B112	2	★	B-3		Diode (Front fog light)
B116	6	★	C-4		AT Select lever
B118	2	★	B-4		Compact disc player illumination light
B119	4	★	C-4		Front accessory power supply socket
B120	14	★	B-4		Radio
B121	1	Black	B-4		Audio bracket ground
B122	6	★	C-5		Sensor ground joint connector (E/G-non-turbo engine model)
B125	1	Green	B-5	B126	Line end connector
B126	1	Green	B-5	B125	
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B134	22	★	B-4		Engine control module (Turbo engine model)
	28	★	B-4		Engine control module (Non-turbo engine model)
B135	28	★	B-4		Engine control module (Turbo engine model)
	20	★	B-4		Engine control module (Non-turbo engine model)
B136	24	★	B-4		Engine control module (Turbo engine model)
	26	★	B-4		Engine control module (Non-turbo engine model)
B137	31	★	C-4		Engine control module (Turbo engine model)
	35	★	C-4		Engine control module (Non-turbo engine model)
B152	12	★	C-1		Fuse & relay box (F/B)
B157	5	★	C-2		Ignition relay (Relay block)
B158	10	Gray	C-1		Fuse & relay box (F/B)
B160	6	Gray	C-1		Front fog light switch
B161	6	Brown	C-1		Cruise control main switch
B168	10	★	C-4		Mode control panel
B169	6	★	C-4		Blower fan switch
B171	5	★	C-2		Mirror heater relay (Relay block)
B176	16	★	C-1		Keyless entry control module
B183	1	★	D-1	B184	Joint connector (Security)
B184	1	★	D-1	B183	
B198	5	★	C-5	GB-3	Ground joint connector
B208	2	Black	B-5		Glove box illumination light
B209	40	Gray	B-1	F76	Front wiring harness (SMJ-turbo engine model)
B224	2	★	C-3		Key illumination light (Turbo engine model)
B225	8	★	C-2		Fuse (Relay block)
B243	6	★	B-3		Security horn relay
B250	6	★	C-2		Flash memory connector
B264	4	Red	C-1		ABS relay
B271	12	Blue	C-1		Fuse & relay box (F/B)
B280	20	Gray	B-3		Integrated module
B281	16	Blue	B-3		
B284	10	★	D-5		Remote controlled rearview mirror switch

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B292	3	★	D-5		ABS G sensor
★: Non-colored					

BULKHEAD WIRING HARNESS (IN COMPARTMENT)



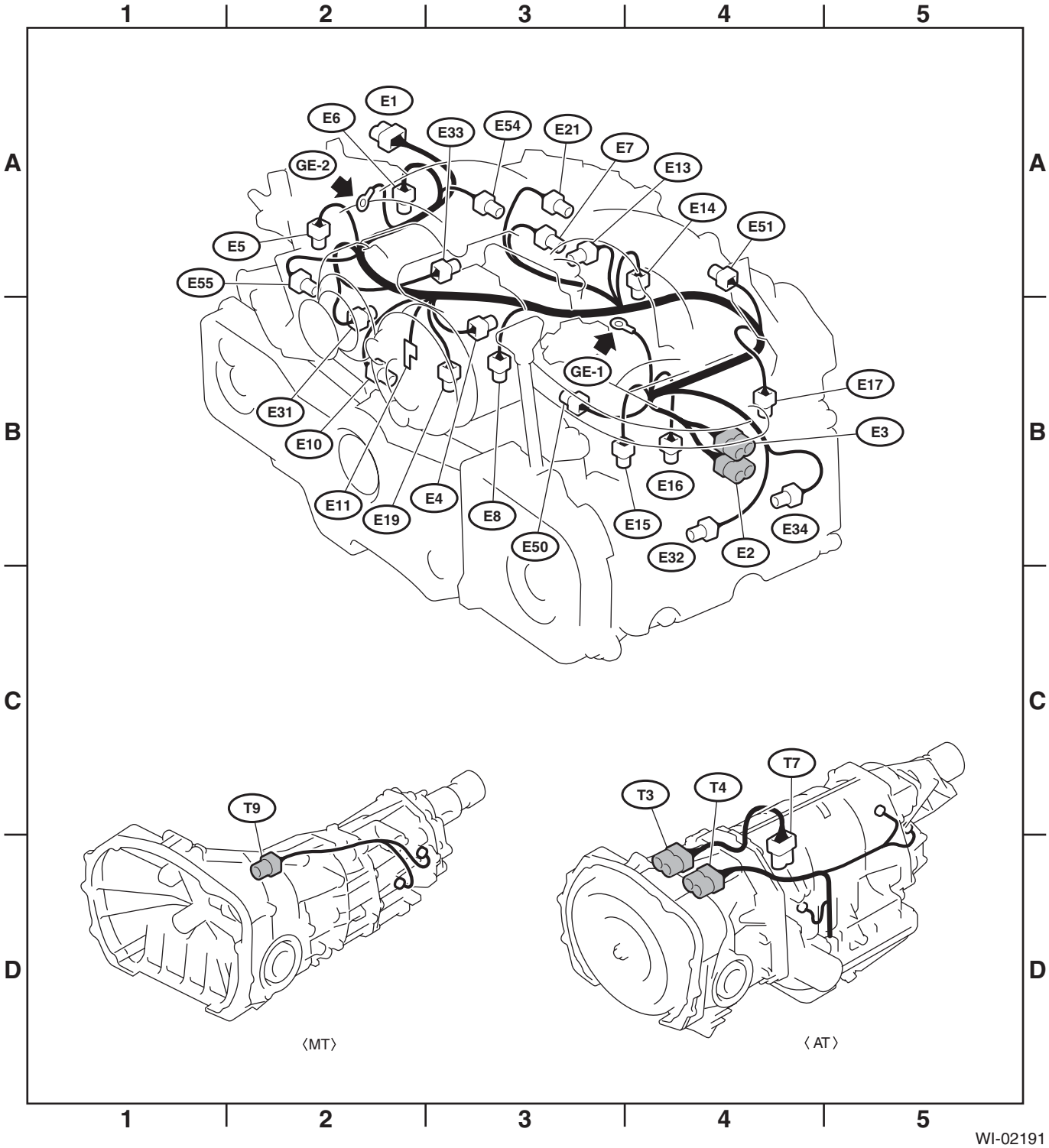
49.Engine Wiring Harness and Transmission Cord

A: LOCATION

1. TURBO ENGINE MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
E1	10	Light gray	A-2	B20	Bulkhead wiring harness
E2	20	Black	B-4	F61	Front wiring harness
E3	16	Brown	B-4	F60	
E4	2	Black	B-3		Purge control solenoid valve
E5	2	Dark gray	A-2		Fuel injector No.1
E6	2	Dark gray	A-2		Fuel injector No.3
E7	3	Black	A-3		Idle air control solenoid valve
E8	3	Light gray	B-3		Engine coolant temperature sensor and thermometer
E10	2	Light gray	B-2		Crank shaft position sensor
E11	1	★	B-2		Oil pressure switch
E13	3	Black	A-3		Throttle position sensor
E14	2	Gray	A-4		Knock sensor
E15	2	Light gray	B-4		Camshaft position sensor
E16	2	Dark gray	B-4		Fuel injector No.2
E17	2	Dark gray	B-4		Fuel injector No.4
E19	1	★	B-3		Power steering oil pressure switch
E21	3	Black	A-3		Pressure sensor
E31	3	★	B-2		Ignition coil No.1
E32	3	★	B-4		Ignition coil No.2
E33	3	Black	A-3		Ignition coil No.3
E34	3	Black	B-4		Ignition coil No.4
E50	3	Black	B-3		TGV angle sensor LH
E51	2	Black	A-4		TGV LH
E54	3	Black	A-3		TGV angle sensor RH
E55	2	Black	A-2		TGV RH
★:Non-colored					

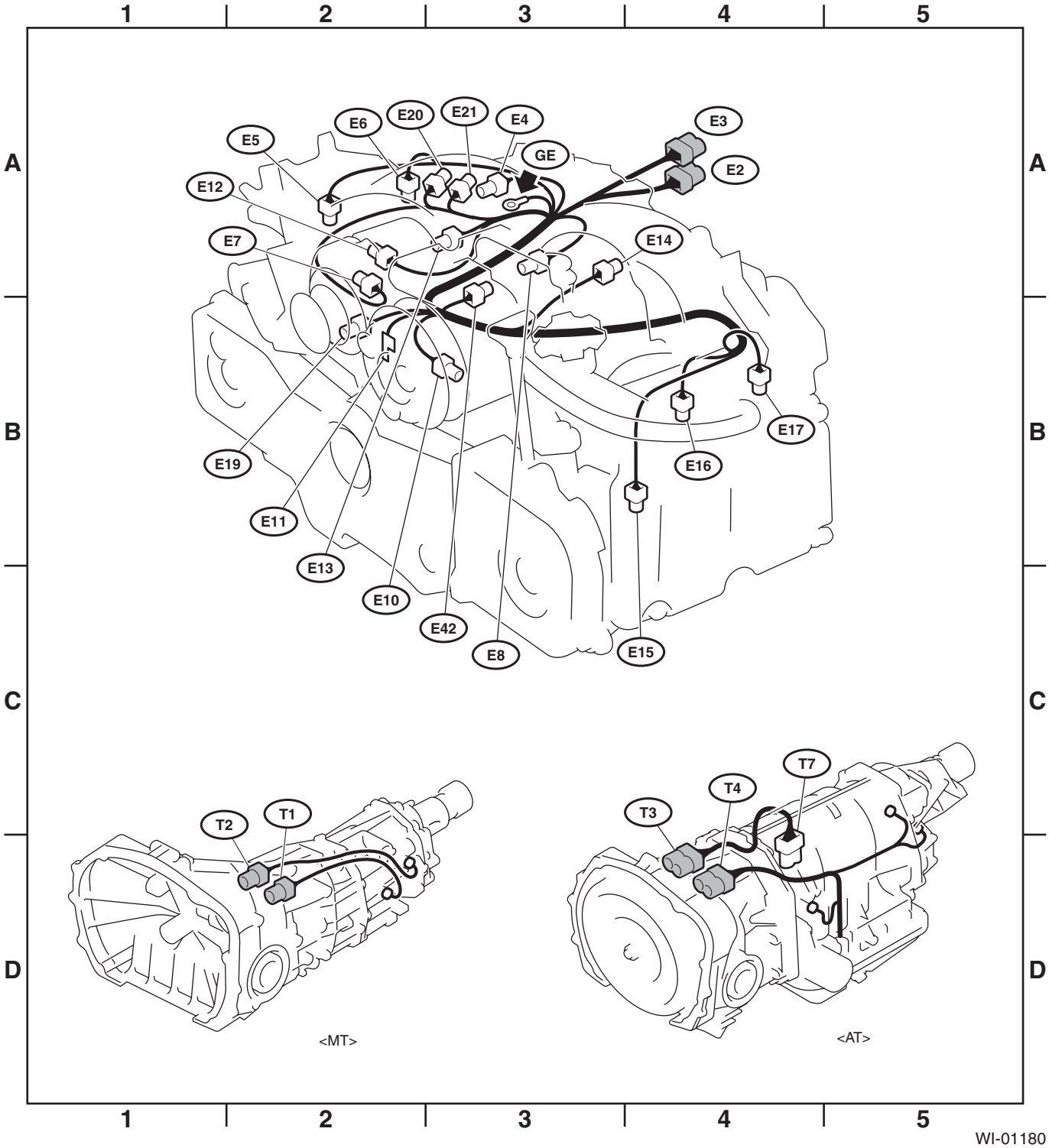
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T3	12	★	D-4	B12	Bulkhead wiring harness (AT)
T4	20	Black	D-4	B11	
T7	12	★	D-4		Inhibitor switch (AT)
T9	4	★	D-2	B128	Bulkhead wiring harness (MT)
★:Non-colored					


1
2
3
4
5
A
B
C
D
E1
E6
E33
E54
E21
E7
E13
GE-2
E14
E51
E5
E55
GE-1
E17
E31
E3
E10
E16
E11
E4
E19
E8
E15
E34
E50
E32
E2
T9
T3
T4
T7
〈MT〉
〈AT〉
WI-02191

2. NON-TURBO ENGINE MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
E2	20	Light gray	A-4	B21	Bulkhead wiring harness
E3	16	Brown	A-4	B22	
E4	2	Black	A-3		Purge control solenoid valve
E5	2	Light gray	A-2		Fuel injector No.1
E6	2	Light gray	A-2		Fuel injector No.3
E7	6	Black	B-2		Idle air control solenoid valve
E8	3	Light gray	A-3		Engine coolant temperature sensor and thermometer
E10	2	Light gray	B-3		Crank shaft position sensor
E11	1	★	B-2		Oil pressure switch
E12	4	Dark gray	A-2		Ignition coil and ignitor
E13	4	Dark brown	A-3		Throttle position sensor
E14	2	Light gray	A-3		Knock sensor
E15	2	Gray	B-4		Camshaft position sensor
E16	2	Light gray	B-4		Fuel injector No.2
E17	2	Light gray	B-4		Fuel injector No.4
E19	1	★	B-2		Power steering oil pressure switch
E20	2	Black	A-3		Intake air temperature sensor
E21	3	Light gray	B-3		Pressure sensor
E42	2	Purple	A-3		Air assist injector solenoid valve
★:Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T1	2	Gray	D-2	B24	Bulkhead wiring harness (MT)
T2	2	Brown	D-2	B25	
T3	12	★	D-4	B12	Bulkhead wiring harness (AT)
T4	20	Black	D-4	B11	
T7	12	★	D-4		Inhibitor switch (AT)
★:Non-colored					

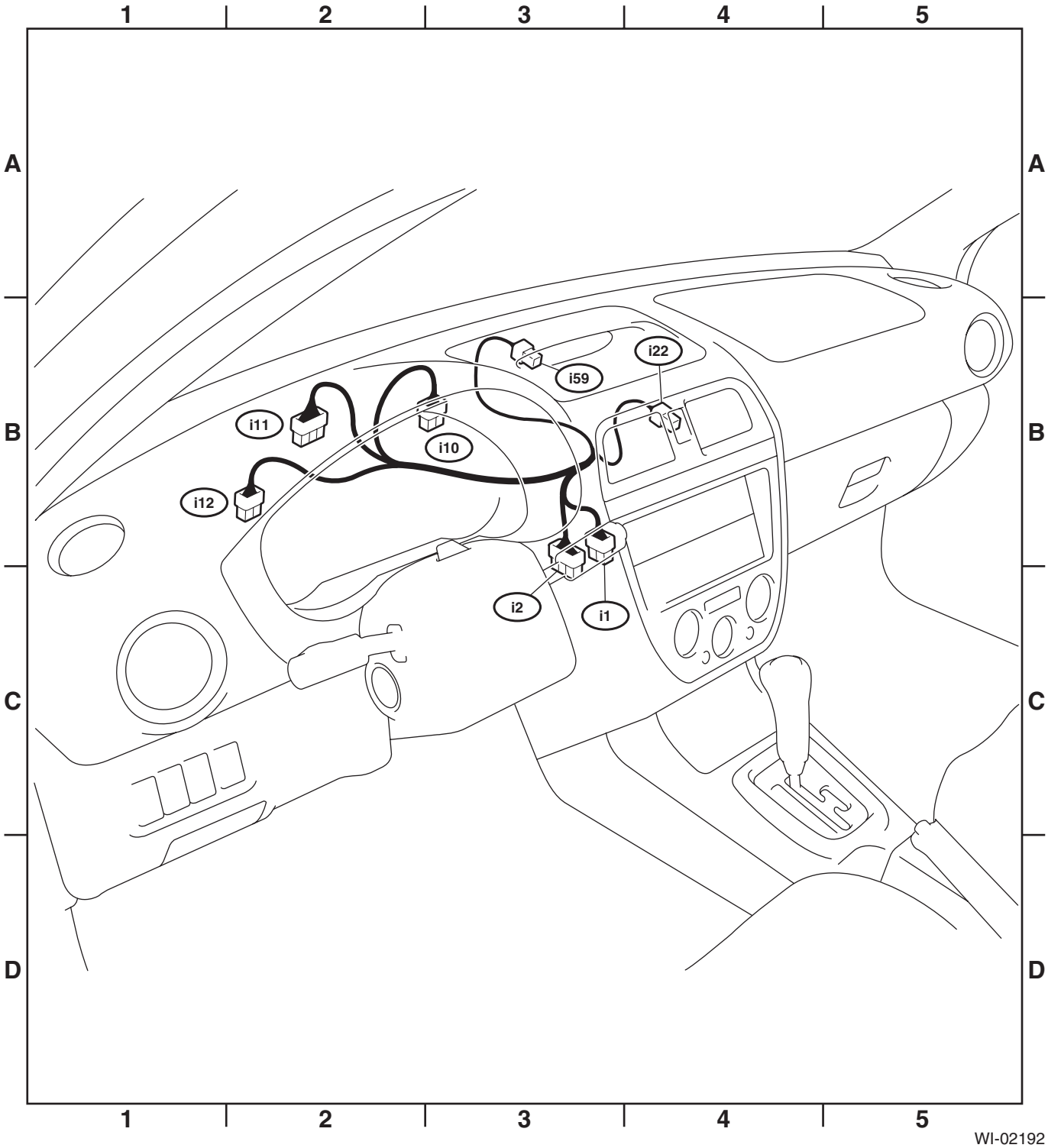

1
2
3
4
5
A
B
C
D
E6
E20
E21
E4
E3
E5
GE
E2
E12
E7
E14
E17
E19
E16
E11
E13
E10
E42
E8
E15
T2
T1
T7
T4
T3
<MT>
<AT>
WI-01180

50.Instrument Panel Wiring Harness

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
i1	20	★	B-3	B36	Bulkhead wiring harness
i2	24	Brown	B-3	B37	
i10	10	Green	B-3		Combination meter
i11	30	Green	B-2		
i12	14	Green	B-2		
i22	8	★	B-4		Hazard switch
i59	4	★	B-3		Clock

INSTRUMENT PANEL WIRING HARNESS



51. Rear Wiring Harness, Bulkhead wiring Harness, Roof Cord and Fuel Tank Cord

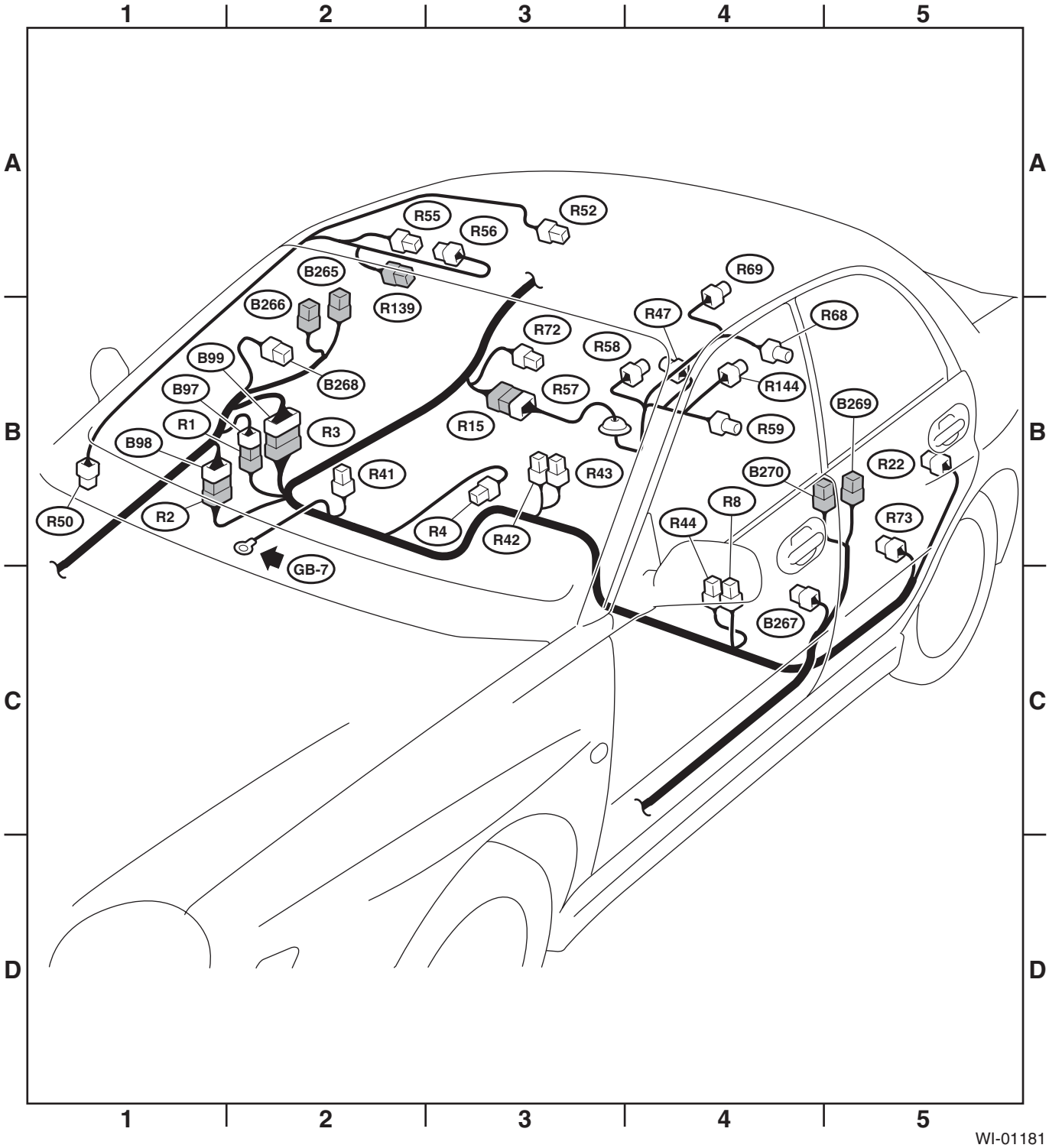
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R1	8	★	B-2	B97	Bulkhead wiring harness
R2	12	★	B-1	B98	
R3	24	★	B-2	B99	
R4	1	★	B-3		Parking brake switch
R8	2	★	C-4		Seat belt switch
R15	16	★	B-3	R57	Fuel tank cord
R22	3	★	B-5		Rear door switch LH
R41	4	Blue	B-2		Seat heater RH
R42	4	★	B-3		Seat heater switch RH
R43	4	Blue	B-3		Seat heater switch LH
R44	4	Blue	C-4		Seat heater LH
R72	2	★	B-3		Rear ABS sensor RH
R73	2	★	B-5		Rear ABS sensor LH
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B97	8	★	B-2	R1	Rear wiring harness
B98	12	★	B-1	R2	
B99	24	★	B-2	R3	
B265	4	★	B-2	D27	Rear door cord RH
B266	3	★	B-2	D28	
B267	3	★	C-4		Front door switch LH
B268	3	★	B-2		Front door switch RH
B269	4	★	B-5	D21	Rear door cord LH
B270	3	★	B-4	D22	
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R50	6	★	B-1	B90	Bulkhead wiring harness
R52	3	★	A-3		Room light
R55	1	Gray	A-2		Not used
R56	2	★	A-3		Spot light
R139	3	★	A-2		Compass mirror
★: Non-colored					

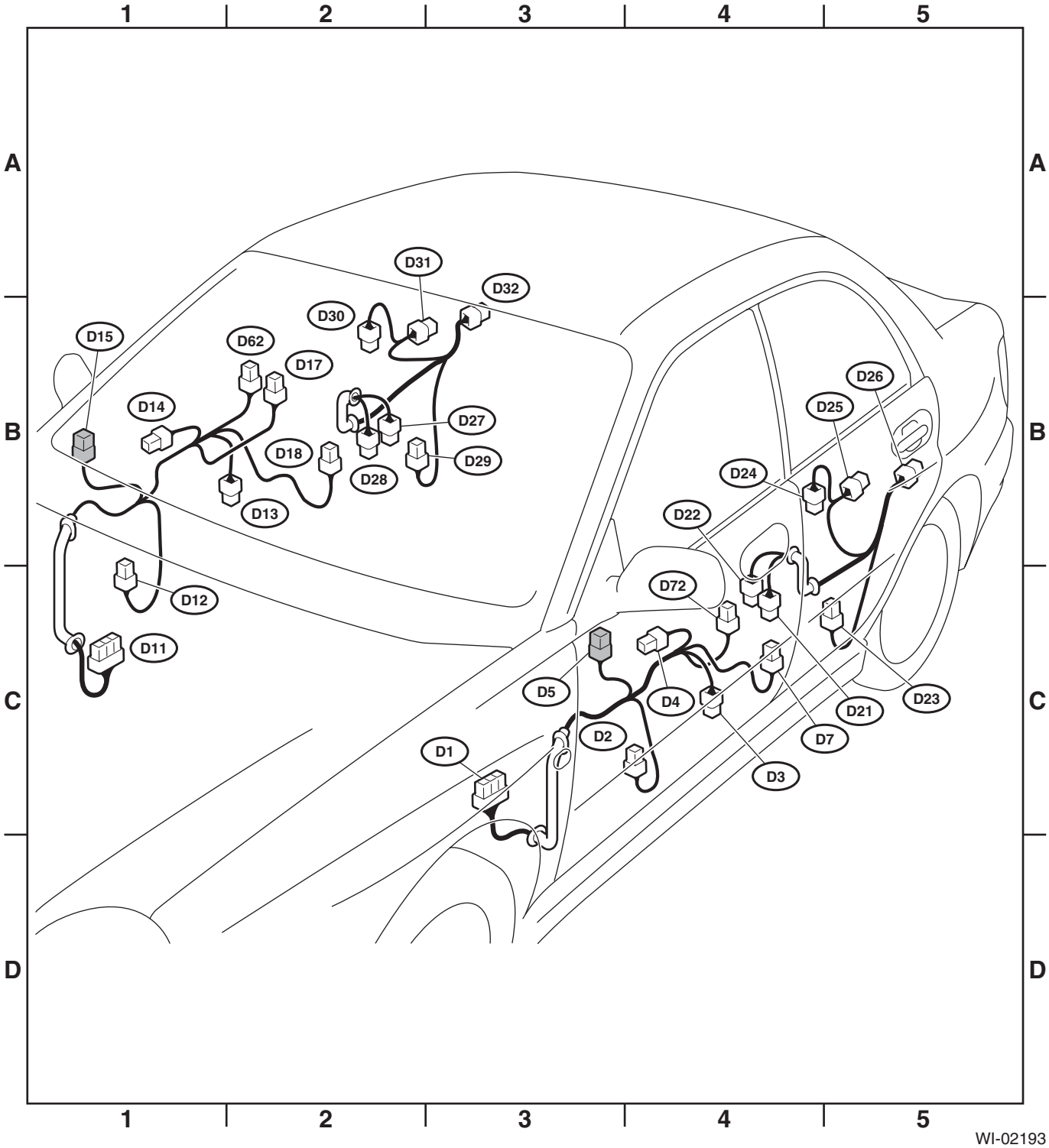
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R47	3	★	B-4		Fuel tank pressure sensor
R57	16	★	B-3	R15	Rear wiring harness
R58	6	★	B-4		Fuel pump assembly
R59	2	★	B-4		Fuel sub level sensor
R68	2	★	B-4		Pressure control solenoid valve
R69	2	★	A-4		Drain valve
R144	2	★	B-4		Fuel tank sensor control valve
★: Non-colored					


1
2
3
4
5
A
B
C
D
R55
R56
R52
B265
B266
R139
R69
R47
R68
R72
R58
B99
B268
B97
R57
R144
B269
R1
R3
R15
R59
B98
R41
R43
B270
R22
R50
R2
R4
R42
R8
R44
R73
GB-7
B267
WI-01181

52.Door Cord

A: LOCATION

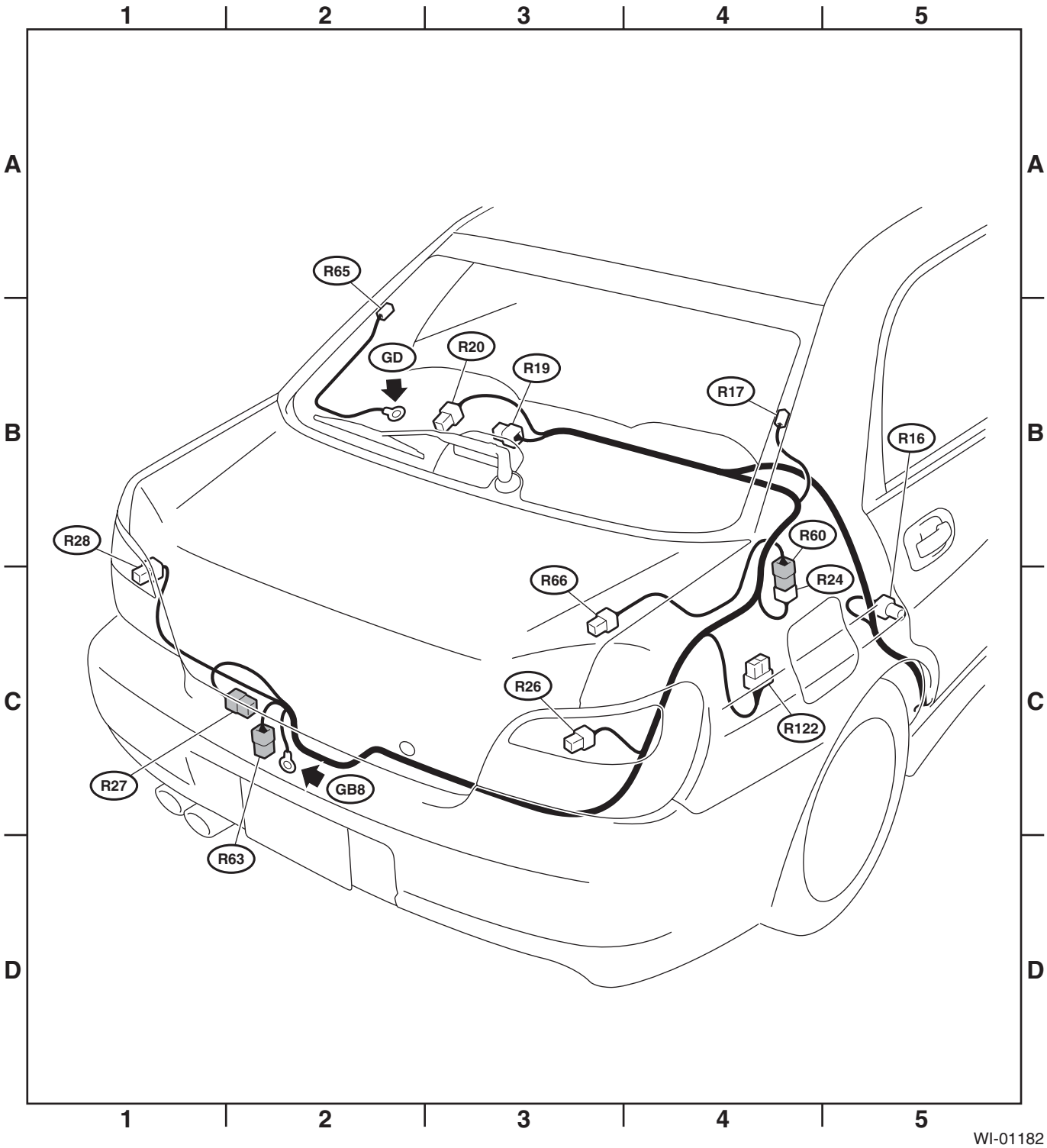
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
D1	25	★	C-3	B30	Bulkhead wiring harness
D2	2	★	C-4		Front door speaker LH
D3	2	Black	C-4		Front power window motor LH
D4	2	★	C-4		Front door tweeter LH
D5	6	★	C-3		Remote control rearview mirror LH (Without mirror heater model)
	8	Black	C-3		Remote control rearview mirror LH (With mirror heater model)
D7	16	★	C-4		Power window main switch
D11	25	★	C-1	B101	Bulkhead wiring harness
D12	2	★	C-1		Front door speaker RH
D13	2	Black	B-2		Front power window motor RH
D14	2	★	B-1		Front door tweeter RH
D15	6	★	B-1		Remote control rearview mirror RH (Without mirror heater model)
	8	Black	B-1		Remote control rearview mirror RH (With mirror heater model)
D17	8	★	B-2		Front power window sub switch RH
D18	4	★	B-2		Front door lock actuator RH
D21	4	★	C-4	B269	Bulkhead wiring harness
D22	3	★	C-4	B270	
D23	2	★	C-5		Rear door speaker LH
D24	2	Black	B-4		Rear power window motor LH
D25	8	★	B-5		Rear power window sub switch LH
D26	4	★	B-5		Rear door lock actuator LH
D27	4	★	B-2	B265	Bulkhead wiring harness
D28	3	★	B-2	B266	
D29	2	★	B-2		Rear door speaker RH
D30	2	Black	B-2		Rear power window motor RH
D31	8	★	B-2		Rear power window sub switch RH
D32	4	★	B-3		Rear door lock actuator RH
D62	5	★	B-2		Front door lock switch RH
D72	4	★	C-4		Front door lock actuator LH
★: Non-colored					


1
2
3
4
5
A
B
C
D
D31
D32
D30
D15
D62
D17
D14
D27
D18
D29
D28
D13
D12
D11
D26
D25
D24
D22
D72
D5
D4
D21
D23
D2
D7
D1
D3
WI-02193

53.Rear Wiring Harness and Trunk Lid Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R16	3	★	C-5		Rear door switch RH
R17	1	Black	B-4		Rear defogger (Power)
R19	2	Blue	B-3		High-mounted stop light
R20	2	Black	B-3		Trunk room light
R24	2	★	C-4	R60	Trunk lid cord
R26	6	★	C-3		Rear combination light RH
R27	2	★	C-2		Trunk room light switch
R28	6	★	C-1		Rear combination light LH
R60	2	★	C-4	R24	Rear wiring harness
R63	2	★	C-2		License plate light
R65	1	★	B-2		Rear defogger (Ground)
R66	2	Black	C-3		High-mounted stop light (Rear spoiler)
R122	10	★	C-4		Fuel pump controller (Turbo engine model)
★: Non-colored					

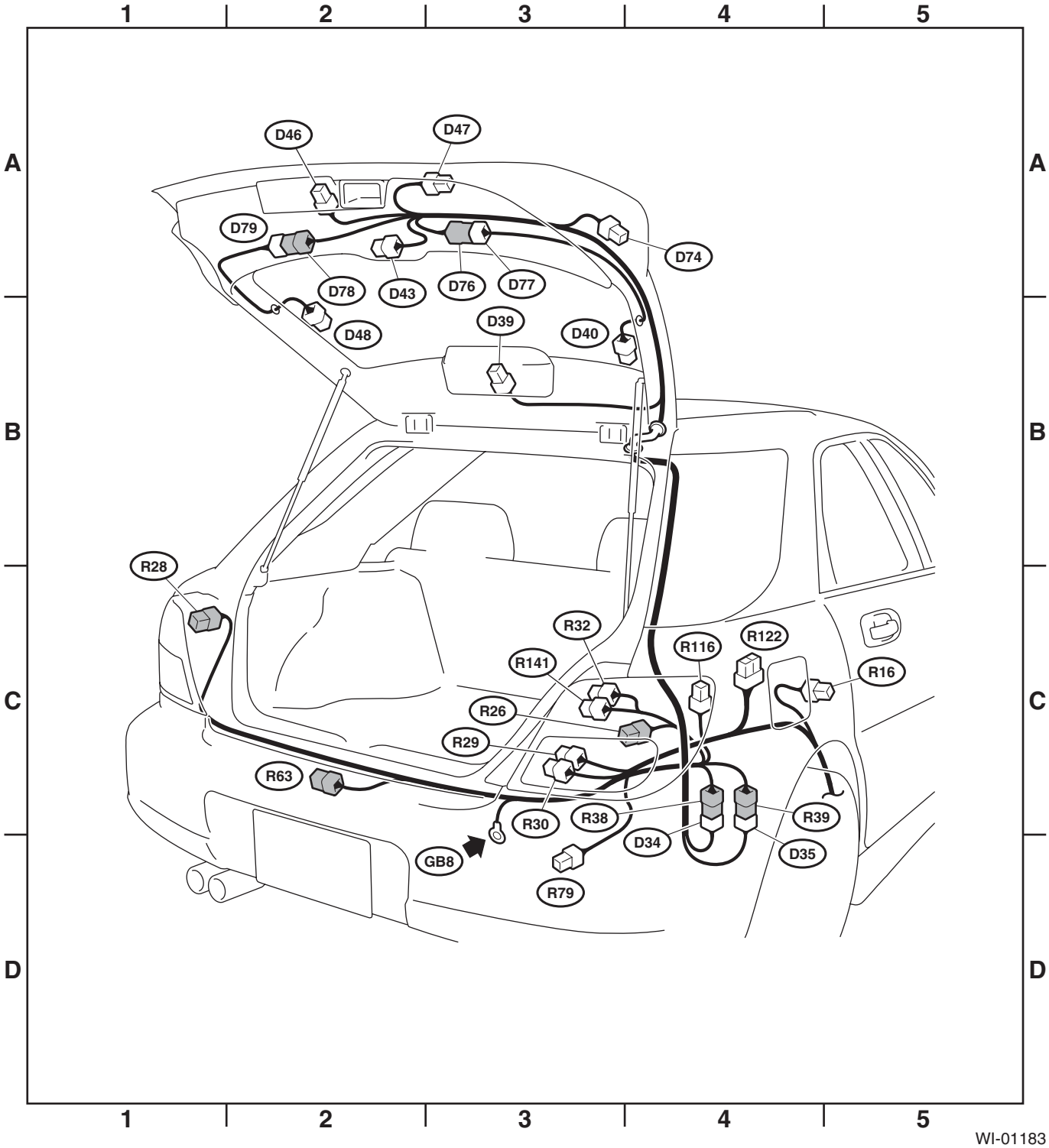

1
2
3
4
5
A
B
C
D
R65
GD
R20
R19
R17
R16
R28
R60
R24
R66
R26
R122
R27
GB8
R63
WI-01182

54.Rear Wiring Harness and Rear Gate Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R16	3	★	C-4		Rear door switch RH
R26	6	★	C-4		Rear combination light RH
R28	6	★	C-1		Rear combination light LH
R29	2	★	C-3		Diode (Luggage room light-2)
R30	2	★	C-3		Diode (Luggage room light-1)
R32	2	★	C-3		Rear accessory power supply socket
R38	6	★	C-4	D34	Rear gate cord
R39	4	★	C-4	D35	
R63	2	Black	C-2		License plate light
R79	6	★	D-3		Trailer connector
R116	8	★	C-4		Rear wiper intermittent module
R122	10	★	C-4		Fuel pump controller (Turbo engine model)
R141	2	★	C-3		Luggage room light
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
D34	6	★	C-4	R38	Rear wiring harness
D35	4	★	C-4	R39	
D39	2	★	B-3		High-mounted stop light
D40	1	★	B-4		Rear defogger (Power-without choke coil model)
D43	4	★	A-2		Rear wiper motor
D46	2	★	A-2		Rear gate latch switch
D47	2	★	A-3		Rear gate lock actuator cord
D48	1	★	B-2		Rear defogger (Ground-without choke coil model)
D74	2	★	A-3		Rear defogger choke coil (With choke coil model)
D76	1	★	A-3	D77	Rear defogger cord (Power-without choke coil model)
D77	1	★	A-3	D76	Rear gate cord
D78	1	Black	A-2	D79	Rear defogger cord (Ground-without choke coil model)
D79	1	Black	A-2	D78	Rear gate cord
★: Non-colored					


1
2
3
4
5
A
B
C
D
D46
D47
D79
D74
D78
D43
D76
D77
D48
D39
D40
R28
R32
R116
R122
R141
R16
R26
R29
R63
R30
R38
R39
D34
D35
GB8
R79

WI-01183