WIRING SYSTEM SECTION

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

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

FUJI HEAVY INDUSTRIES LTD.

G1830BE7

WIRING SYSTEM

WI

1. Basic Diagnostics Procedure

A: BASIC PROCEDURES

1. GENERAL

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

2. IDENTIFICATION OF TROUBLE SYMPTOM

Determine what the problem is based on the symptom.

3. PROBABLE CAUSE OF TROUBLE

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

4. LOCATION AND REPAIR OF TROUBLE

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

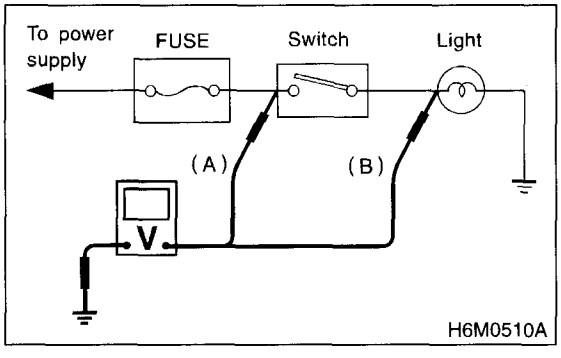
5. CONFIRMATION OF SYSTEM OPERATION

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

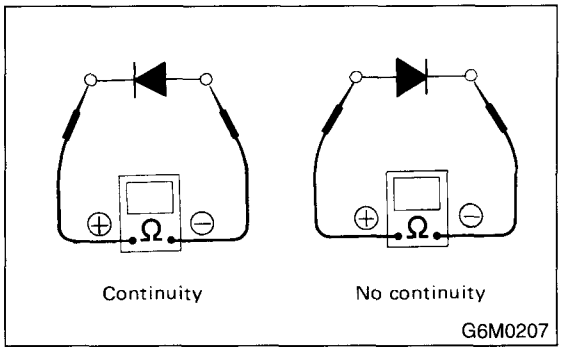
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector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



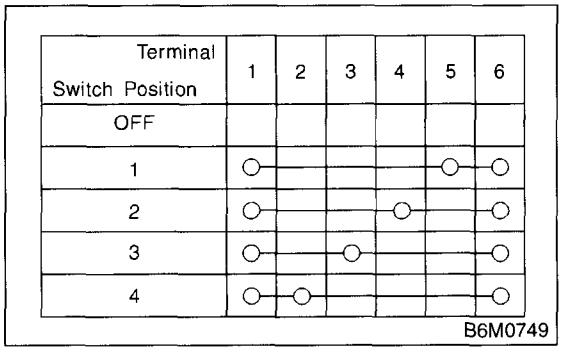
4) With the test set-up held as it is, turn the switch ON. The voltmeter will indicate a voltage and, at the same time, the light will come on.
5) The circuit is in good order. If a problem such as a lamp failing to light occurs, use the procedures outlined above to track down the malfunction.

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.



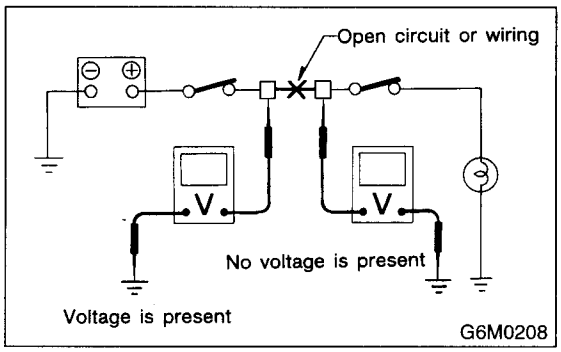
3) Symbol "○—○" indicates that continuity exists between two points or terminals. For example, when a switch position is at "3", continuity exists among terminals 1, 3 and 6, as shown in the table below.



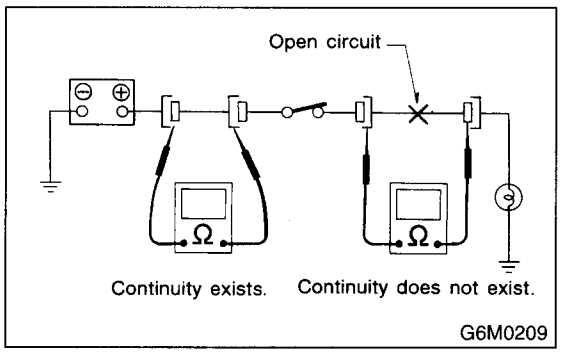
Terminal / Switch Position	1	2	3	4	5	6
OFF						
1	○				○	○
2	○			○		○
3	○		○			○
4	○	○				○

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.

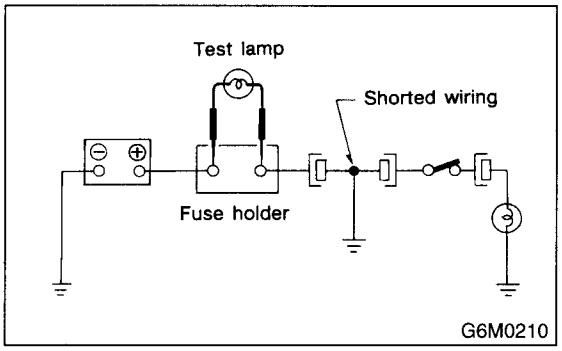


2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.

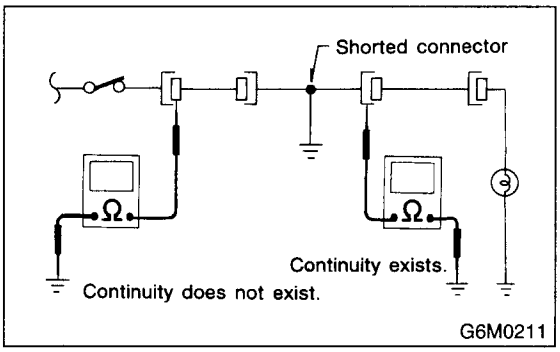


4. HOW TO DETERMINE A SHORT CIRCUIT

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.

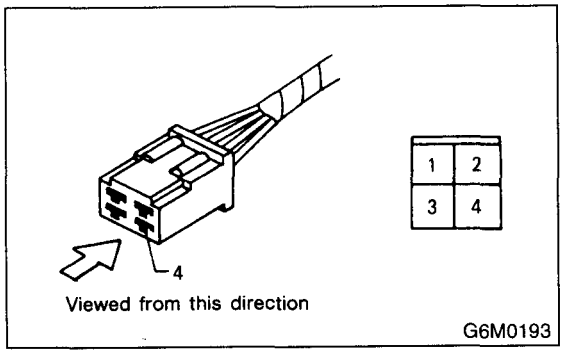


C: HOW TO READ WIRING DIAGRAMS

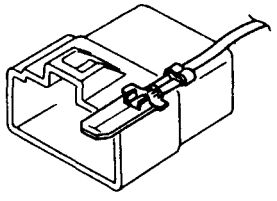
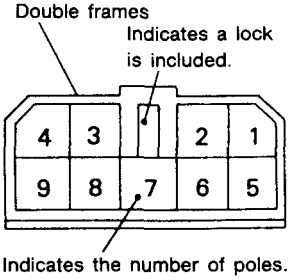
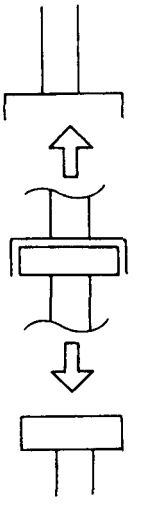
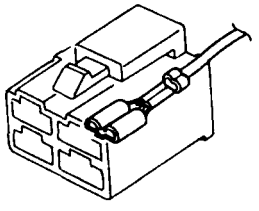
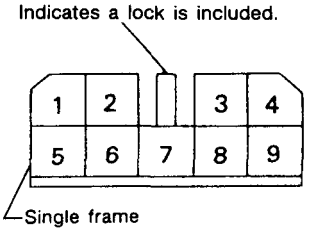
1. WIRING DIAGRAM

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:

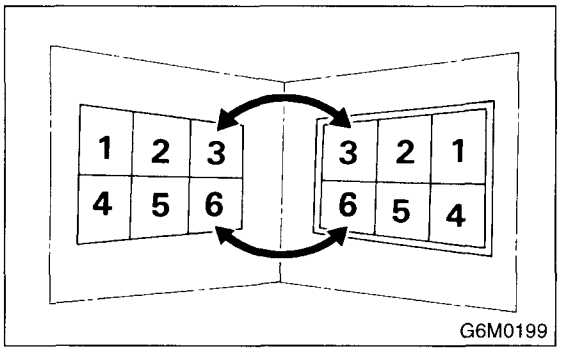
- Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



- 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.

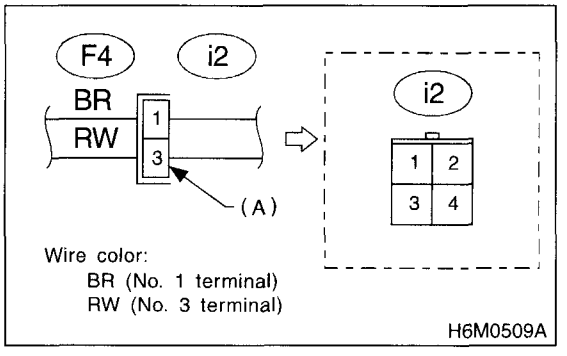
Connector used in vehicle	Connector shown in wiring diagram		
	Sketch	Symbol	Number of poles
 G6M0194	 G6M0196	 G6M0198	Numbered in order from upper *right to lower left.*
 G6M0195	 G6M0197		Numbered in order from upper left to lower right.

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

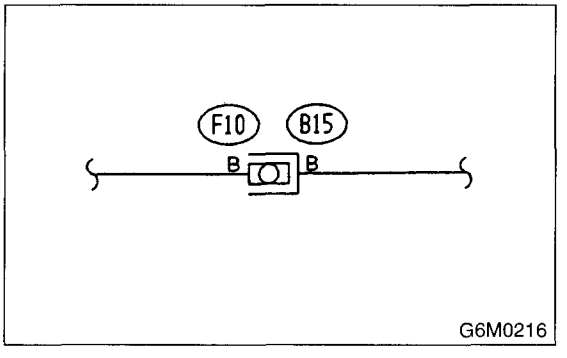


• Electrical wiring harness:
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.
• The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal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

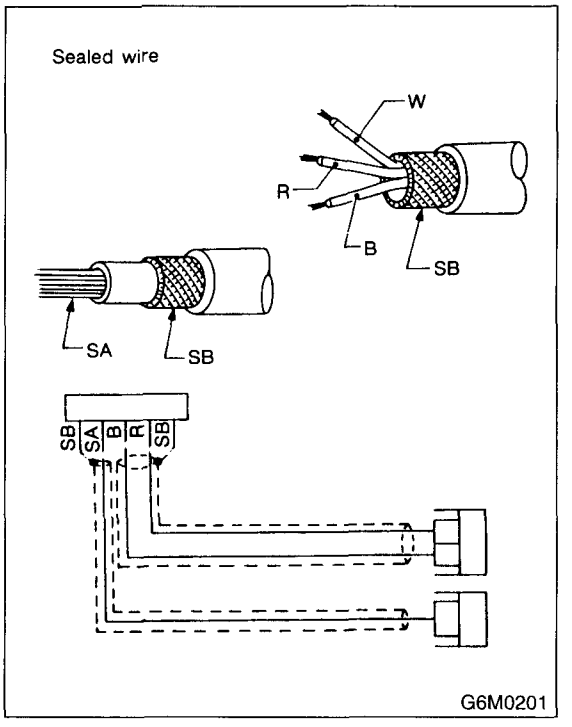


• In the wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

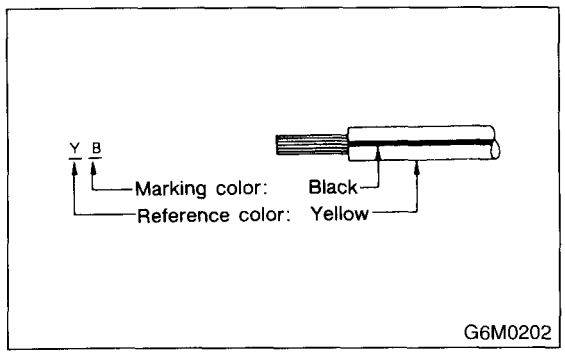


• The following color codes are used to indicate the colors of the wires used.

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.



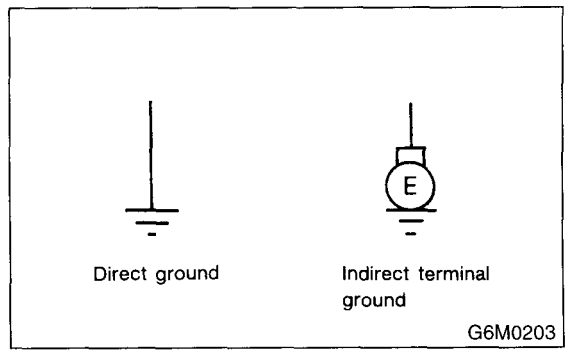
• The table lists the nominal sectional areas and allowable currents of the wires.

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.

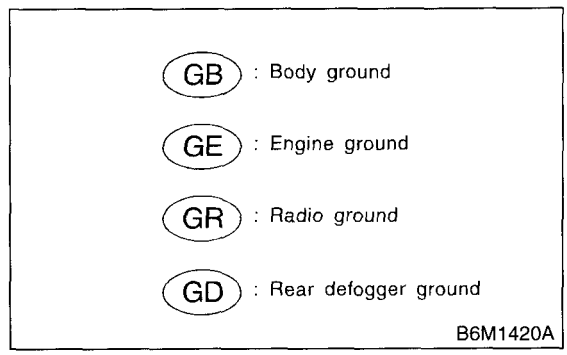
Nominal sectional area mm²	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32	3.8 (or 3.6)	38
5	65/0.32	4.6 (or 4.4)	51
8	50/0.45	5.5	67

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

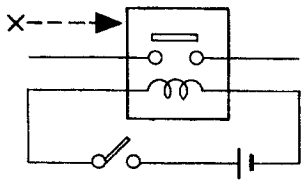
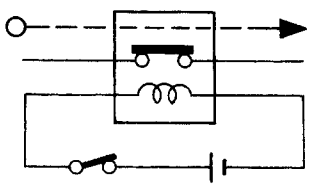
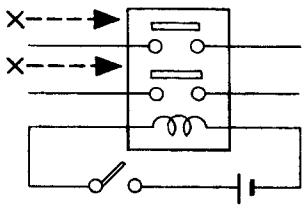
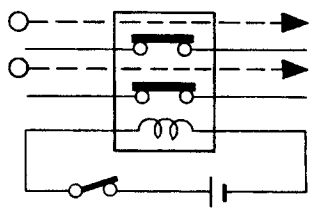
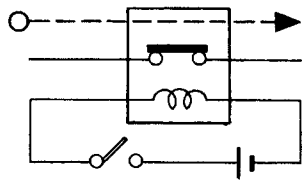
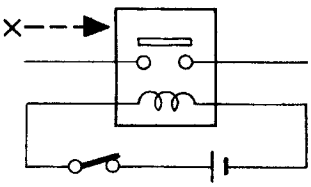
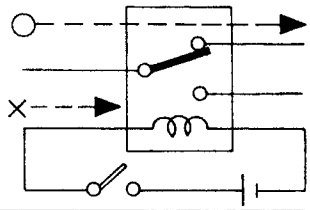
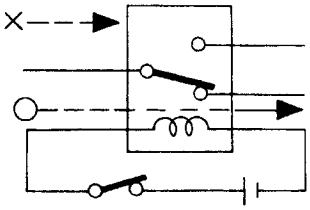


• The ground points shown in the wiring diagram refer to the following:

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



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

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

Key to symbols:

○ ⟶ : Current flows.

× ⟶ : Current does not flow.

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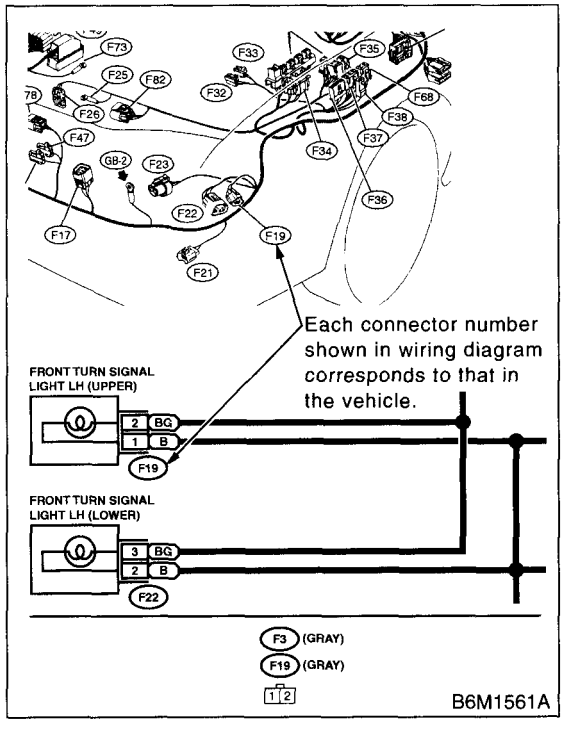
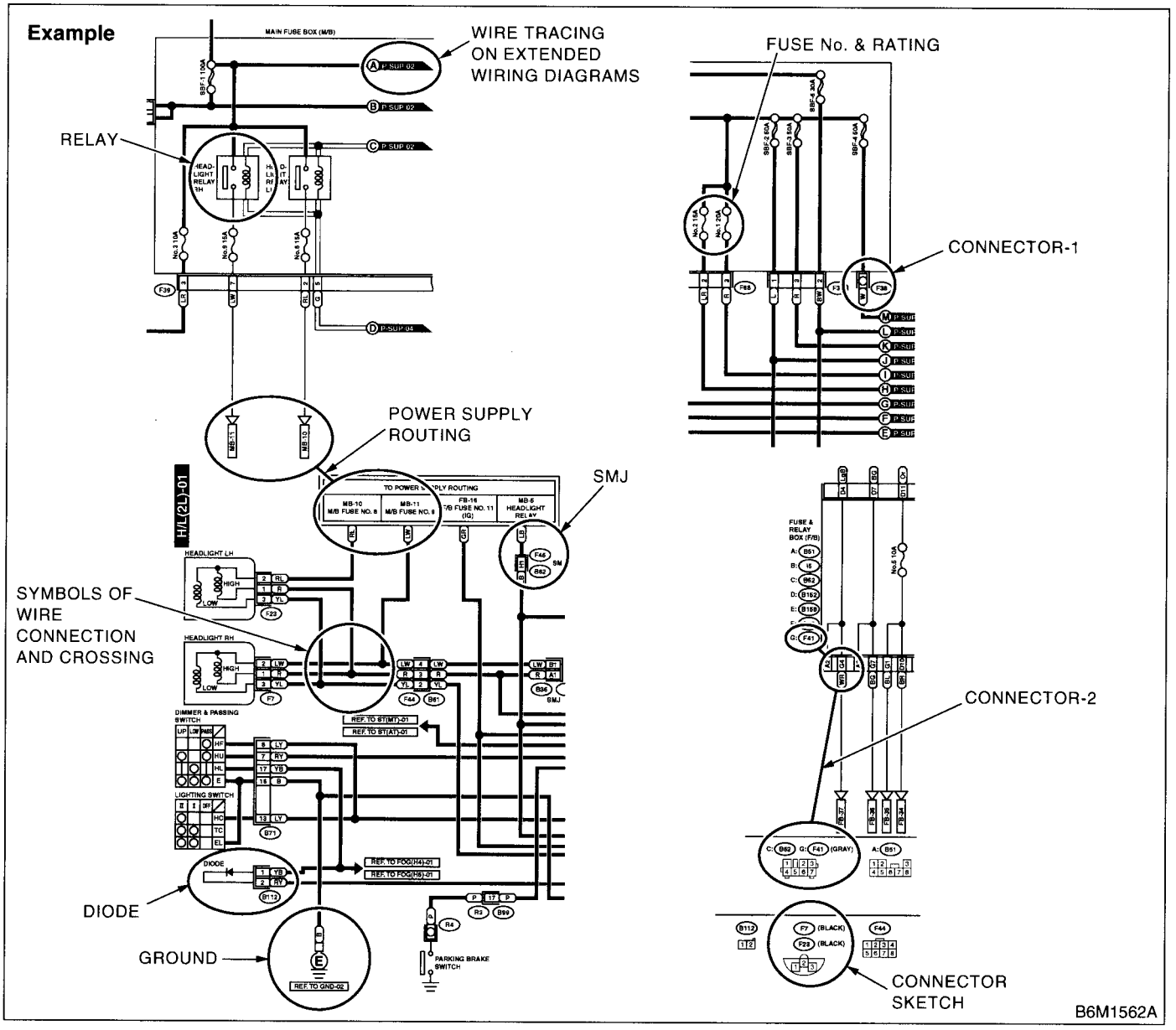
• Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a "F" for F8, "i" for i16, etc.) and the type of wiring harness.
The first character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

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



D: SYMBOLS IN WIRING DIAGRAMS

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



1. RELAY

A symbol used to indicate a relay.

2. CONNECTOR-1

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

3. WIRING CONNECTION

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

4. FUSE NO. & RATING

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

5. CONNECTOR-2

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

6. CONNECTOR SKETCH

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

7. GROUND

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

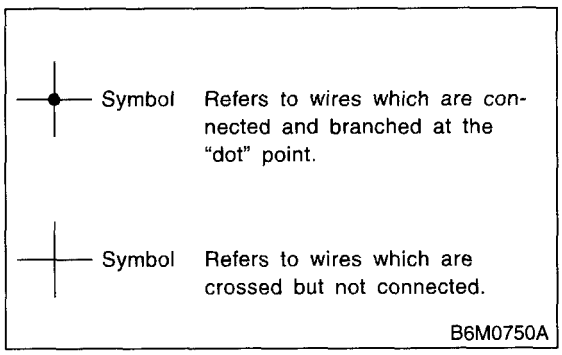
8. DIODE

A symbol is used to indicate a diode.

9. WIRE TRACING ON EXTENDED WIRING DIAGRAMS

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

10.SYMBOLS OF WIRE CONNECTION AND CROSSING



11.POWER SUPPLY ROUTING

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

E: ABBREVIATION IN WIRING DIAGRAMS

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

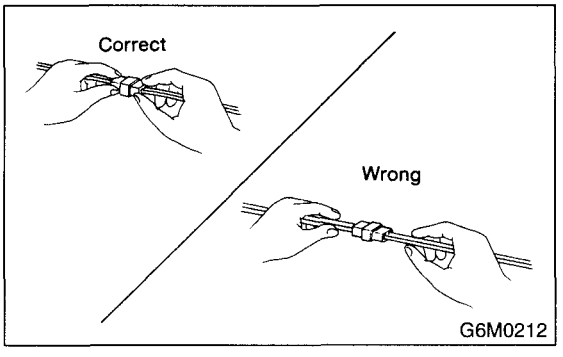
2. Working Precautions

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

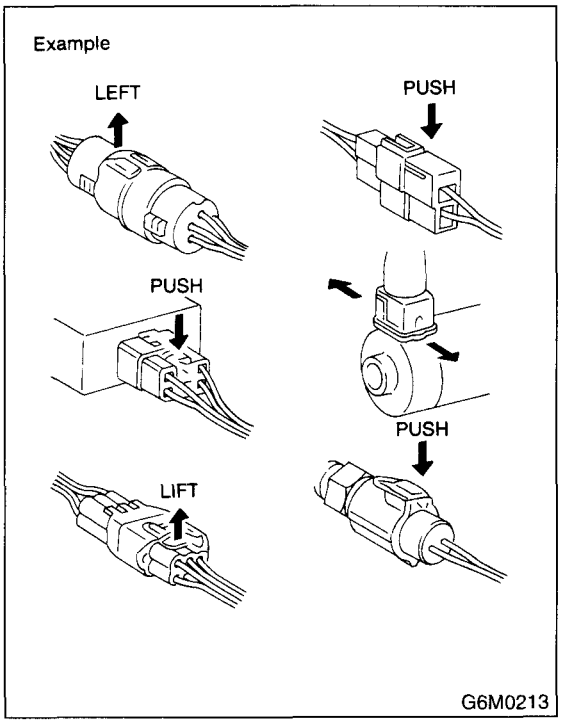
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running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

B: PRECAUTIONS IN TROUBLE DIAGNOSIS AND REPAIR OF ELECTRIC PARTS

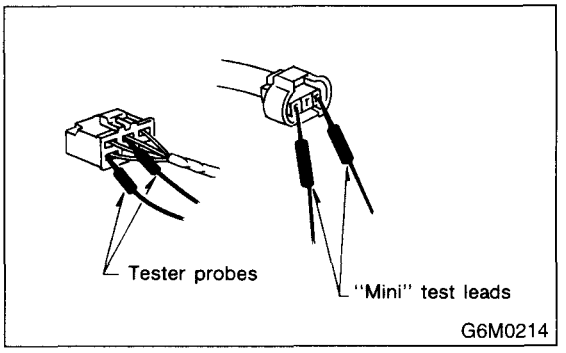
1) The battery cable must be disconnected from the battery's (–) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts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

Bulkhead Wiring Harness ⟷ **Front Wiring Harness**

B209 **40 Poles (Gray)**

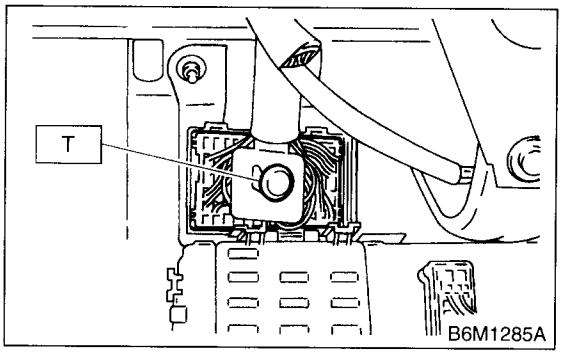
A1	A2	A3	A4	A5
B1	B2	B3	B4	B5
C1	C2		C4	C5
D1	D2		D4	D5
E1				E5
F1				F5
G1	G2		G4	G5
H1	H2	I3	H4	H5
I1	I2		I4	I5
J1	J2	J3	J4	J5

F76 **40 Poles (Gray)**

A5	A4	A3	A2	A1
B5	B4	B3	B2	B1
C5	C4		C2	C1
D5	D4		D2	D1
E5				E1
F5				F1
G5	G4		G2	G1
H5	H4	I3	H2	H1
I5	I4		I2	I1
J5	J4	J3	J2	J1

BO0369

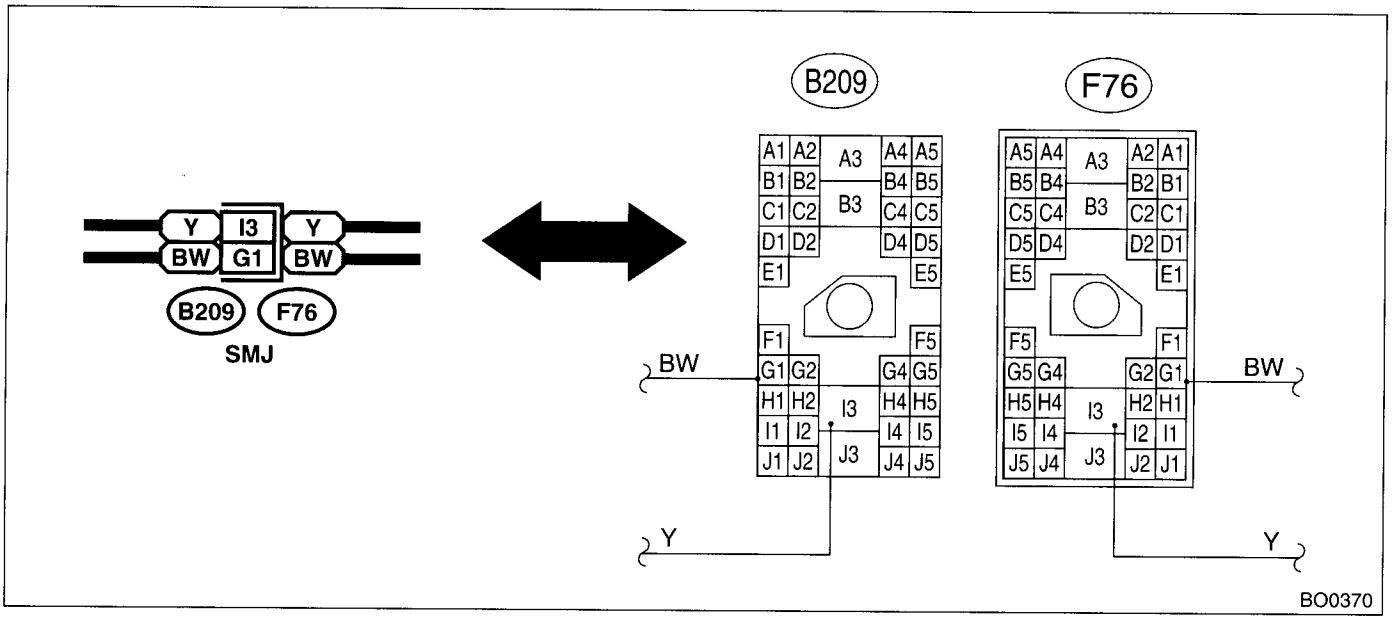
C: INSTALLATION



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

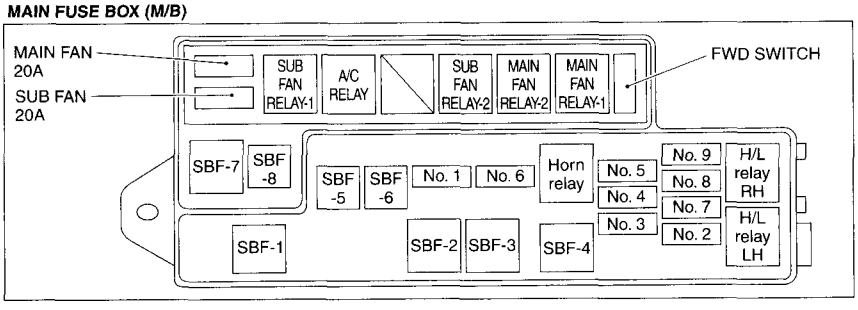


4. Power Supply Routing

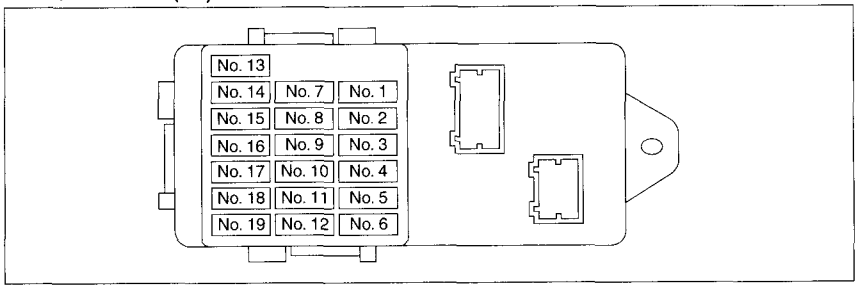
A: SCHEMATIC

P-SUP-01

MAIN FUSE BOX (M/B)

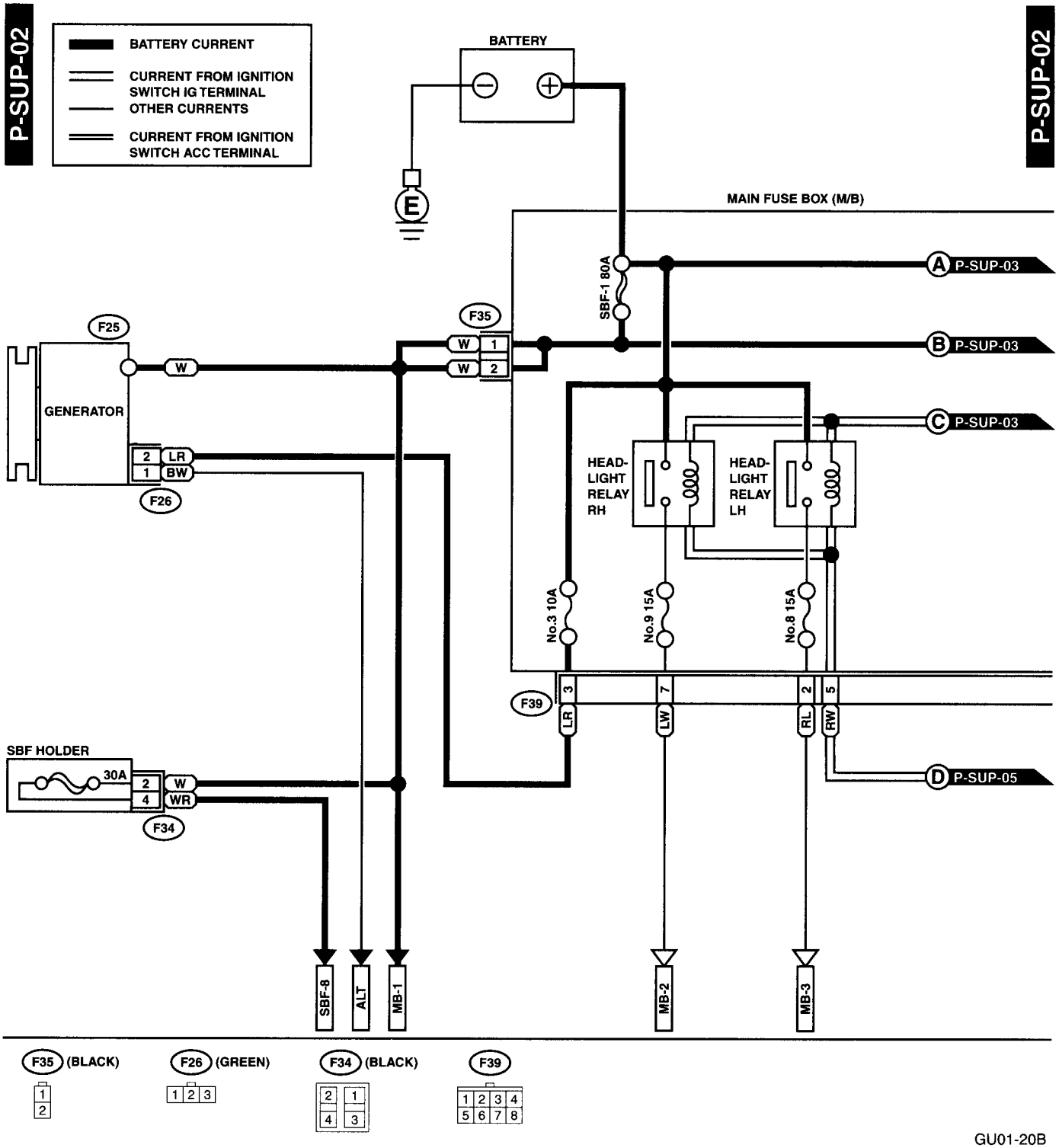


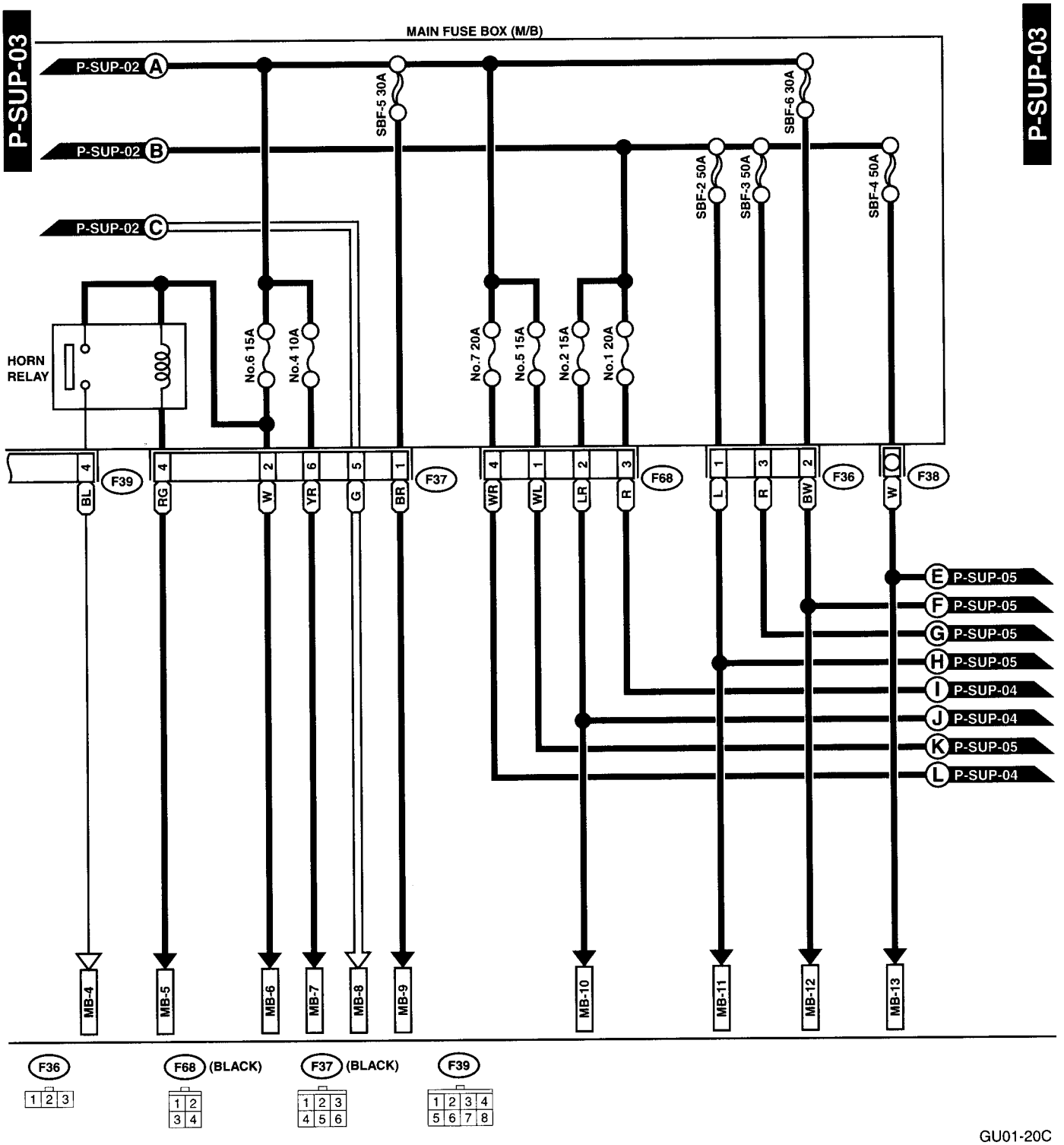
FUSE & RELAY BOX (F/B)



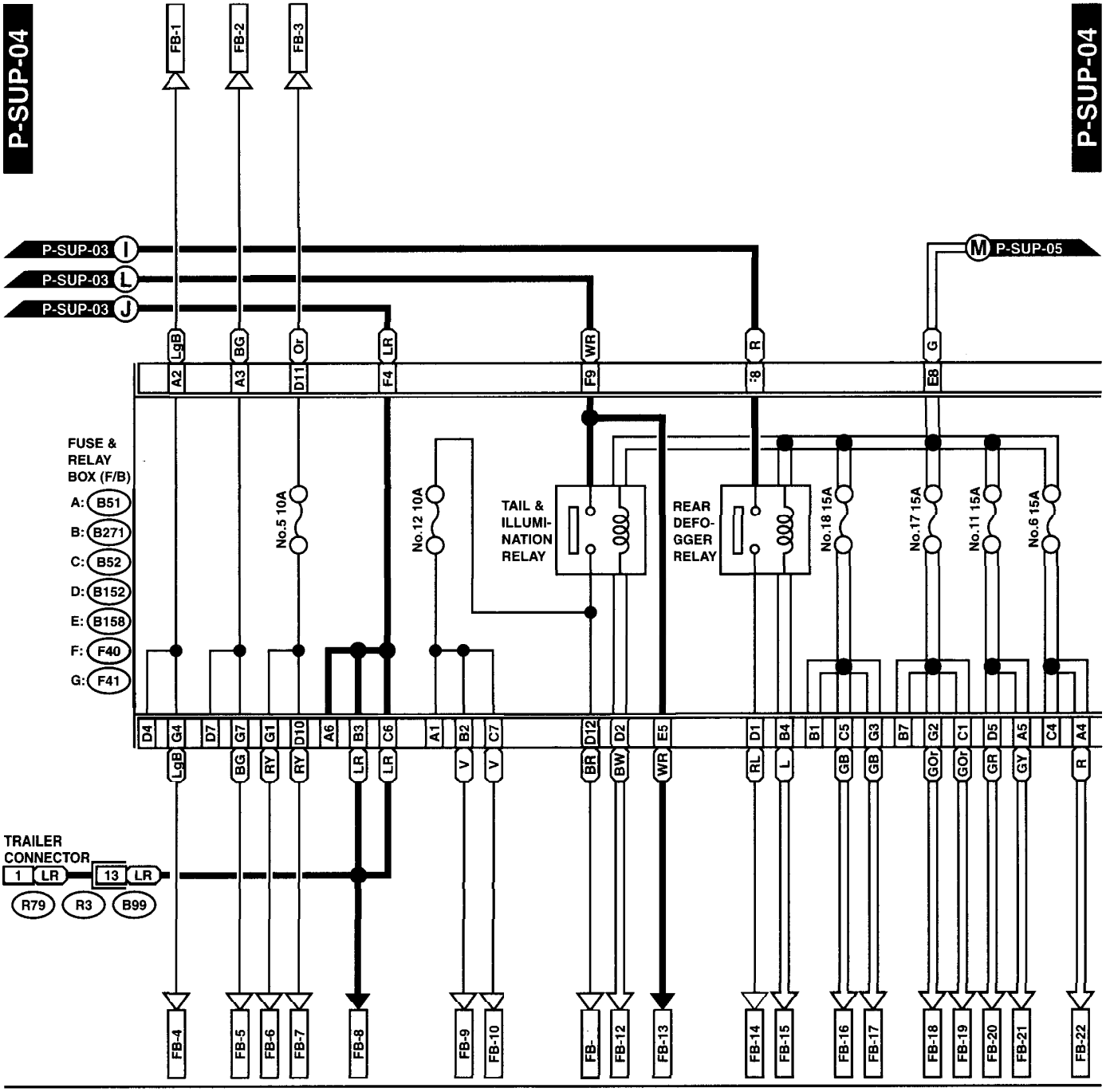
GU01-20A

POWER SUPPLY ROUTING

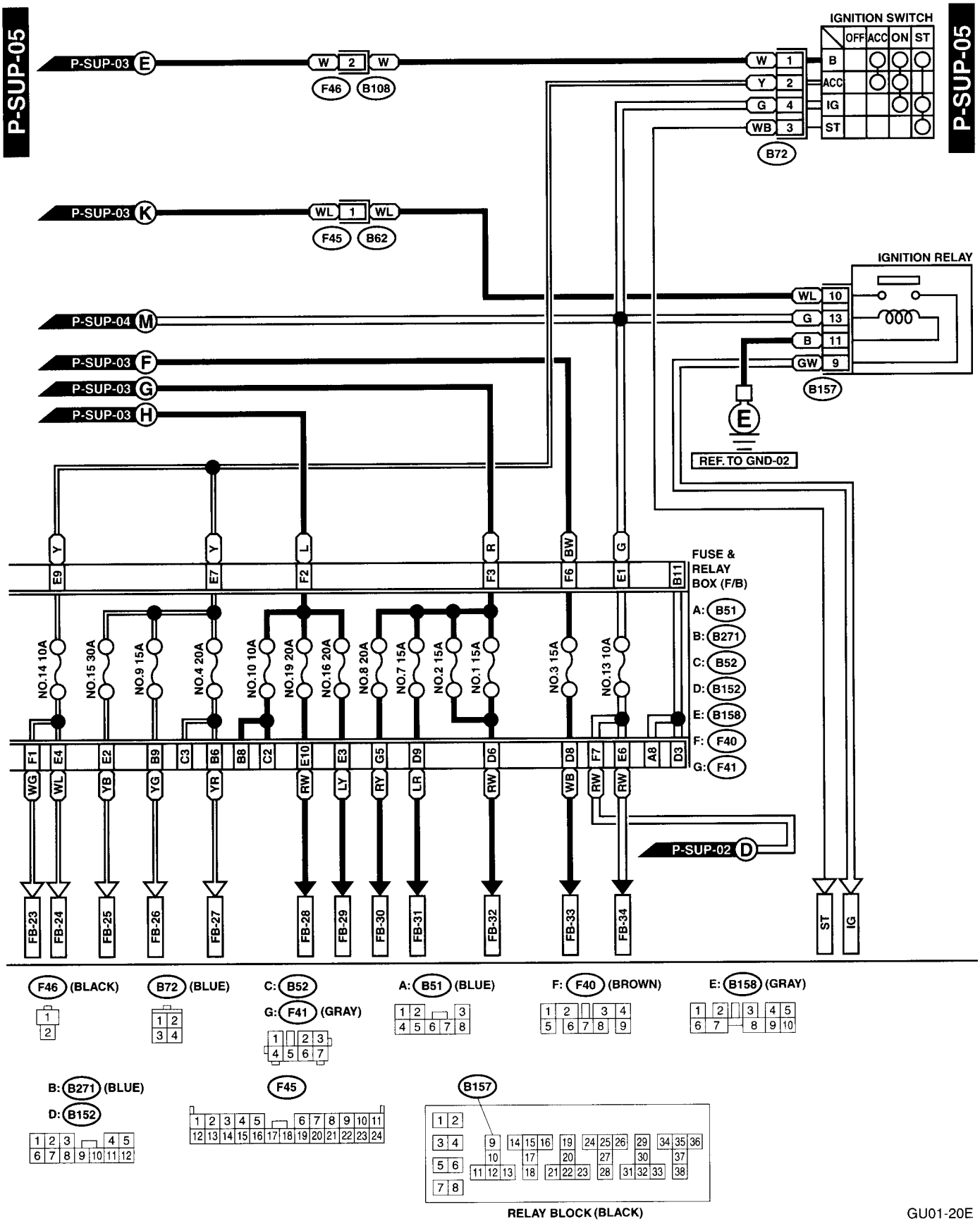



P-SUP-03
MAIN FUSE BOX (M/B)
P-SUP-02 A
P-SUP-02 B
P-SUP-02 C
SBF-5 30A
SBF-6 30A
SBF-2 50A
SBF-3 50A
SBF-4 50A
HORN RELAY
No.6 15A
No.4 10A
No.7 20A
No.5 15A
No.2 15A
No.1 20A
F39
F37
F68
F36
F38
BL
RG
W
YR
G
BR
WR
WL
LR
R
L
R
BW
W
E P-SUP-05
F P-SUP-05
G P-SUP-05
H P-SUP-05
I P-SUP-04
J P-SUP-04
K 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
GU01-20C

POWER SUPPLY ROUTING



GU01-20D


P-SUP-05
P-SUP-05
P-SUP-03 E
W 2 W
F46 B108
IGNITION SWITCH
OFF ACC ON ST
B
ACC
IG
ST
W 1
Y 2
G 4
WB 3
B72
P-SUP-03 K
WL 1 WL
F45 B62
IGNITION RELAY
WL 10
G 13
B 11
GW 9
B157
P-SUP-04 M
P-SUP-03 F
P-SUP-03 G
P-SUP-03 H
E
REF. TO GND-02
Y
Y
L
R
BW
G
FUSE & RELAY BOX (F/B)
E9
E7
F2
F3
F6
E1
B11
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)

GU01-20E

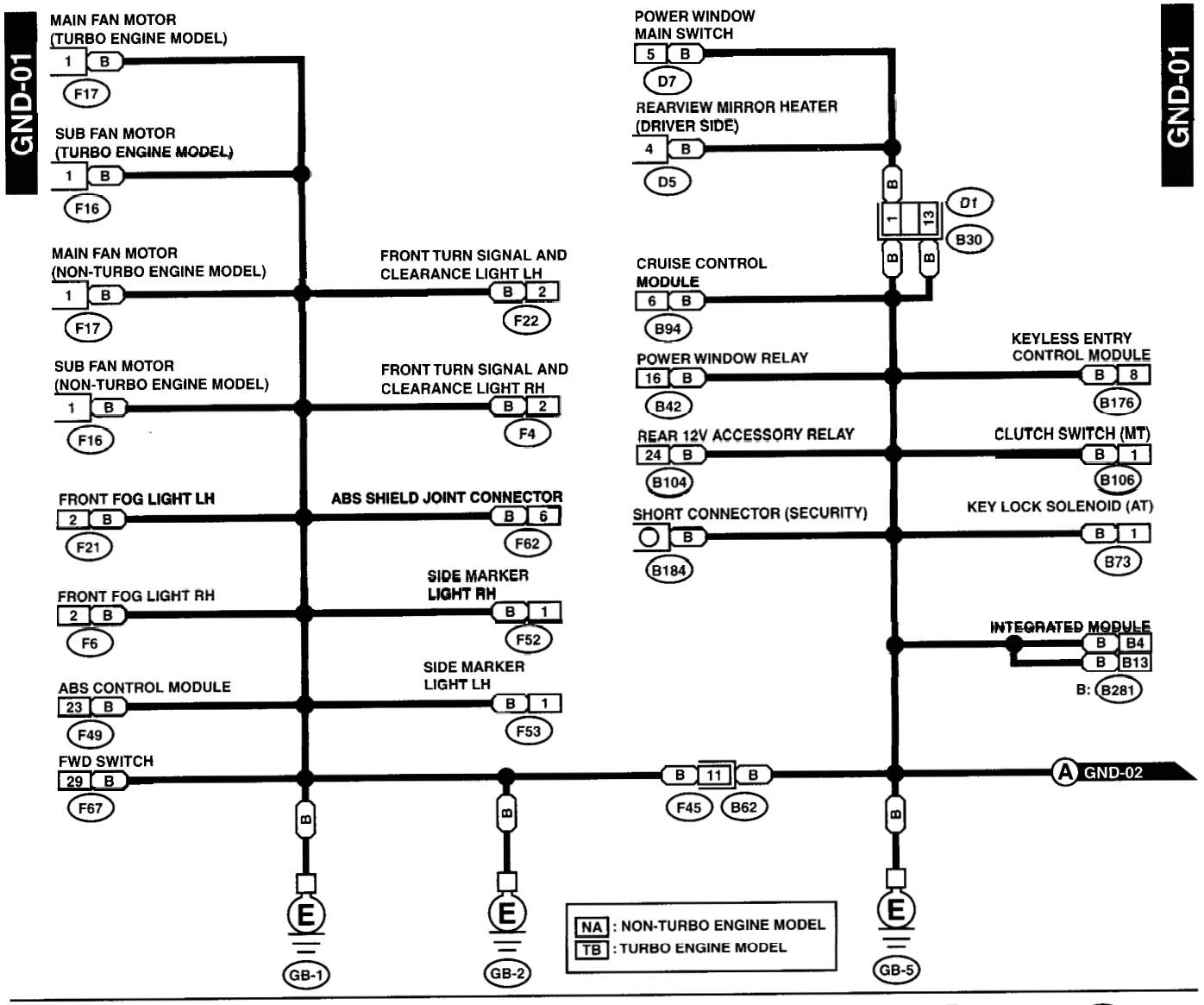
No.	Load
MB-1	Air conditioning relay holder (Fuse)
MB-2	Combination meter Headlight RH
MB-3	Headlight LH
MB-4	Horn
MB-5	Cruise control sub switch Horn switch Keyless entry control module Security horn relay
MB-6	Hazard switch Key warning switch
MB-7	Transmission control module
MB-8	Daytime running light 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 Side maker light RH
FB-7	License plate light Tail light LH Tail light RH Trailer connector

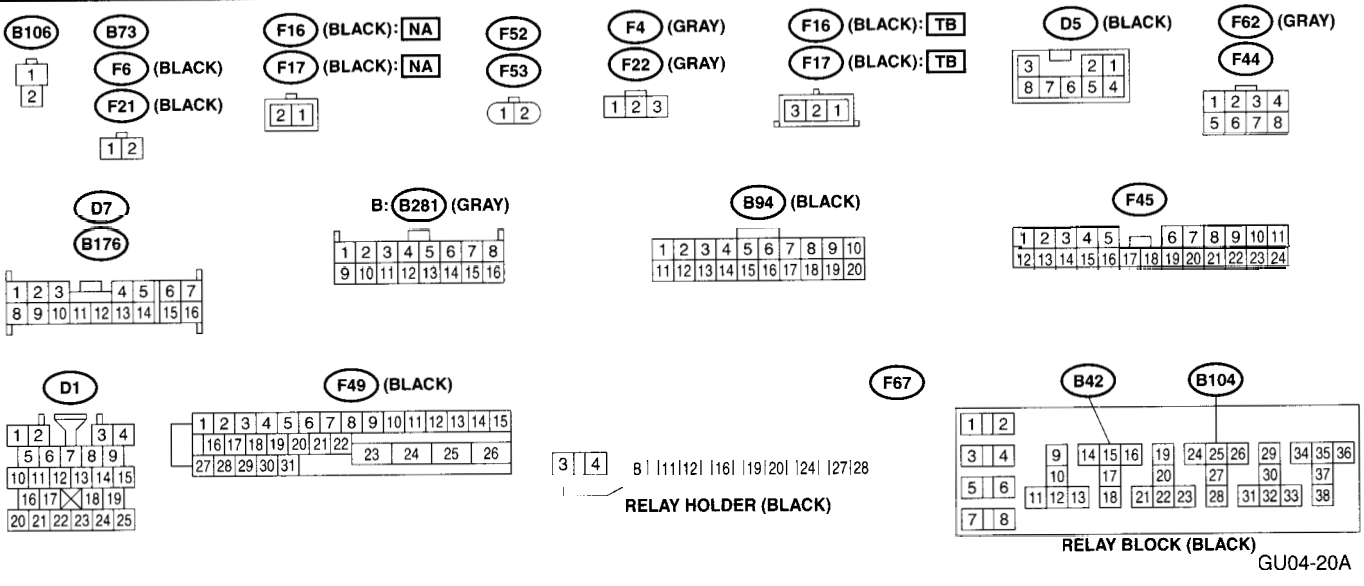
No.	Load
FB-8	Clock Combination meter Integrated module Keyless entry control module Luggage room light (Wagon) Radio Room light Security control module Security horn relay Spot light Trunk room light (Sedan)
FB-9 FB-10	Clock Combination meter Illumination light Integrated module
FB-11	Parking switch
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
FB-24	Rear wiper intermittent module Rear wiper motor

No.	Load
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

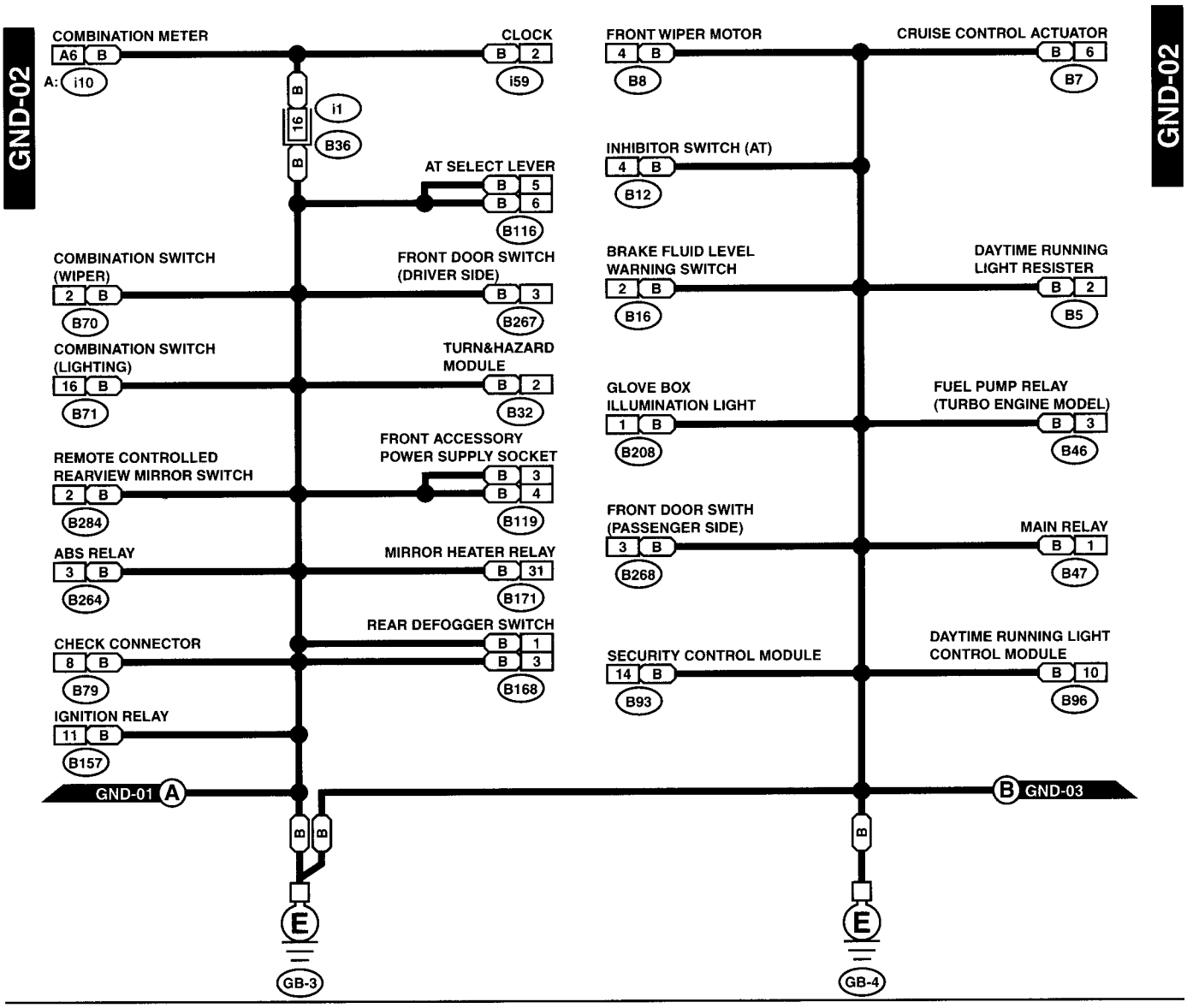
A: SCHEMATIC

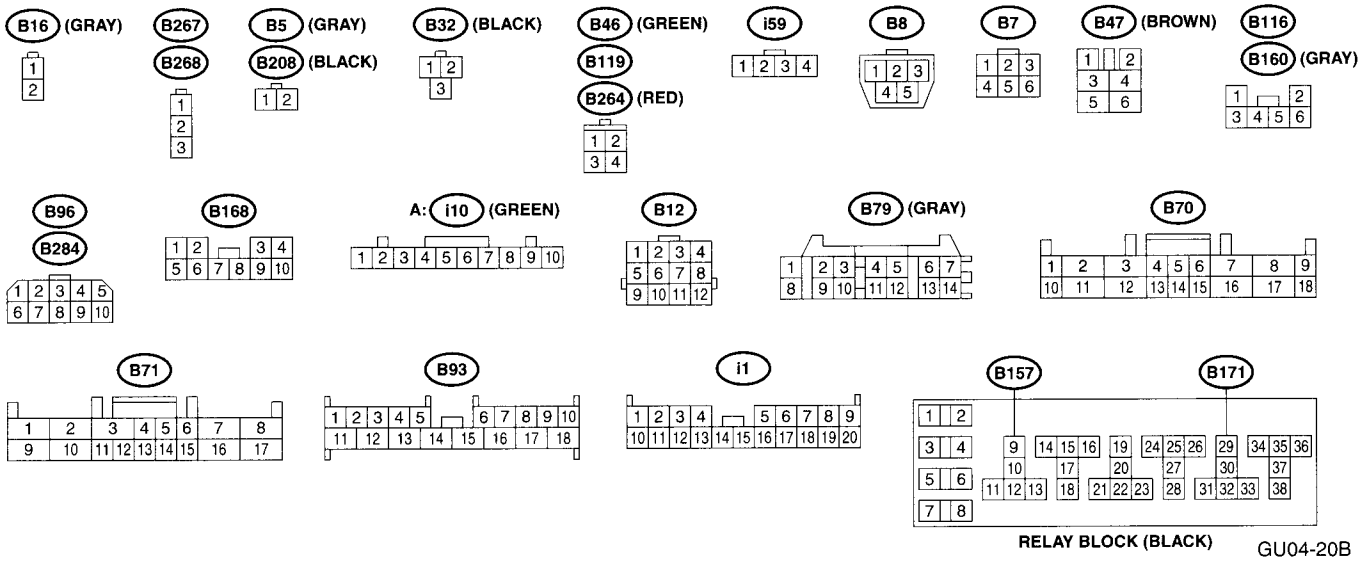




GU04-20A

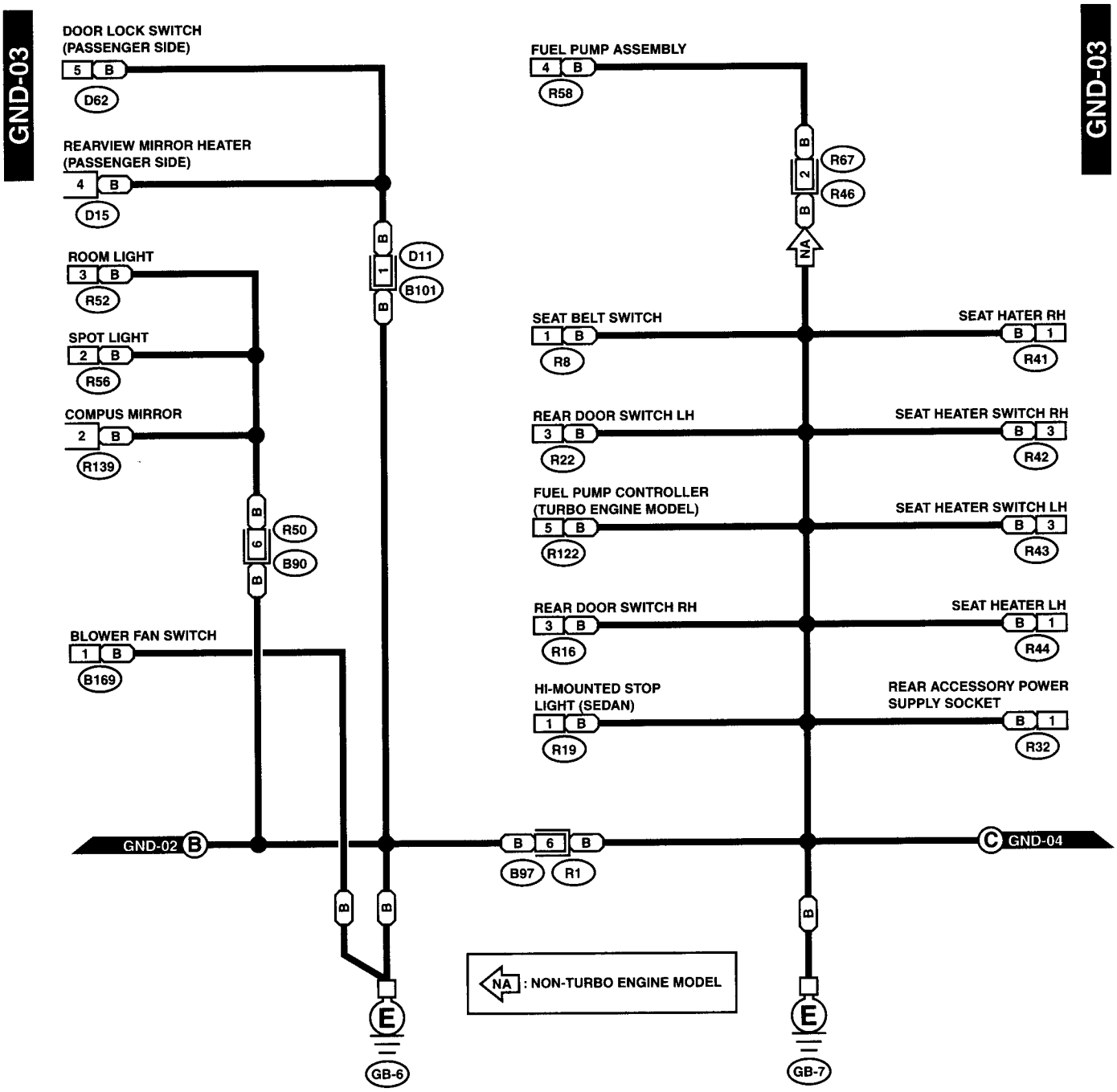
GROUND DISTRIBUTION

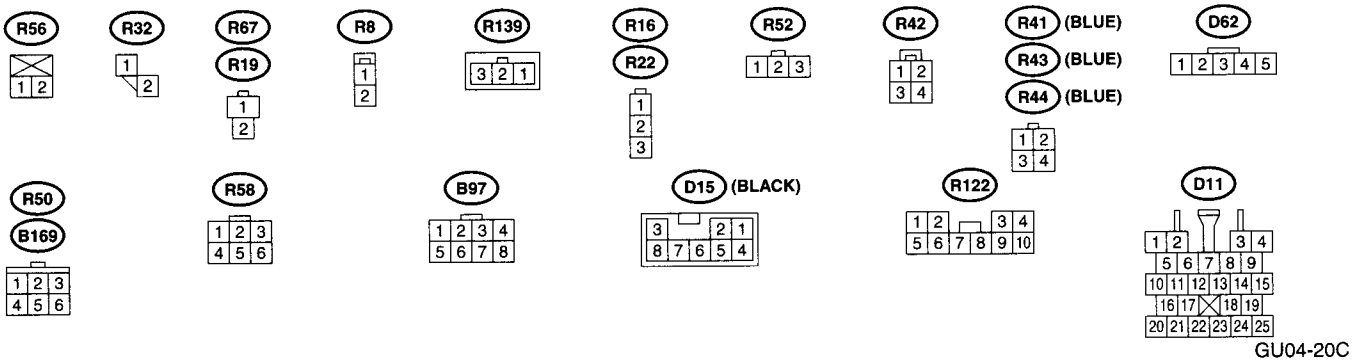




GU04-20B

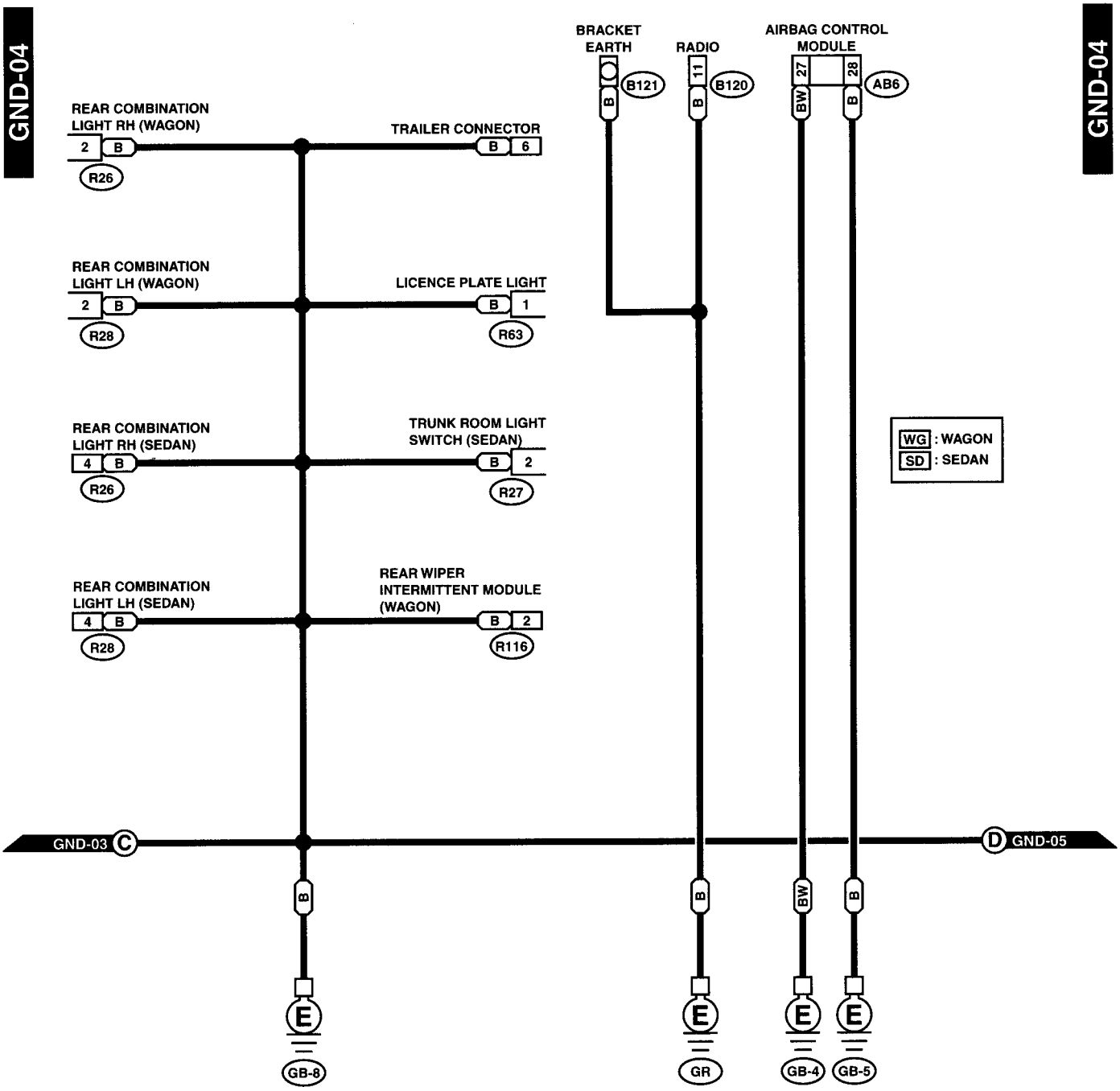
GROUND DISTRIBUTION

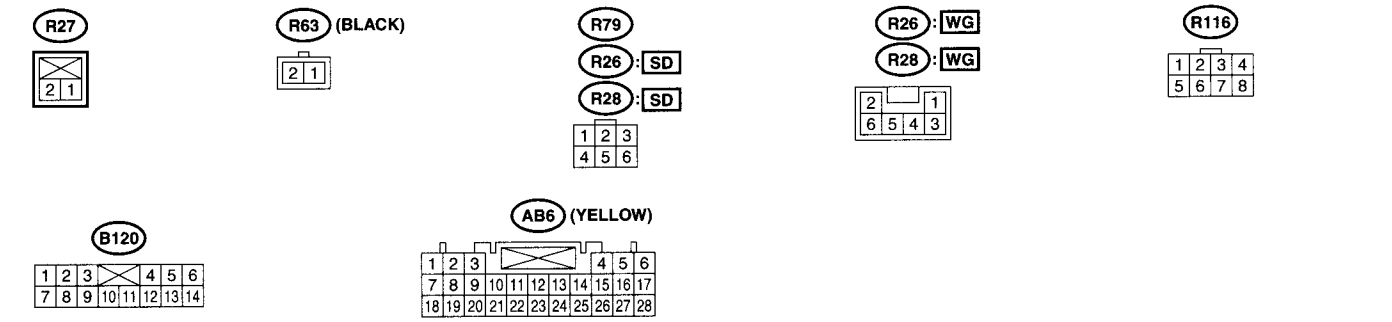




GU04-20C

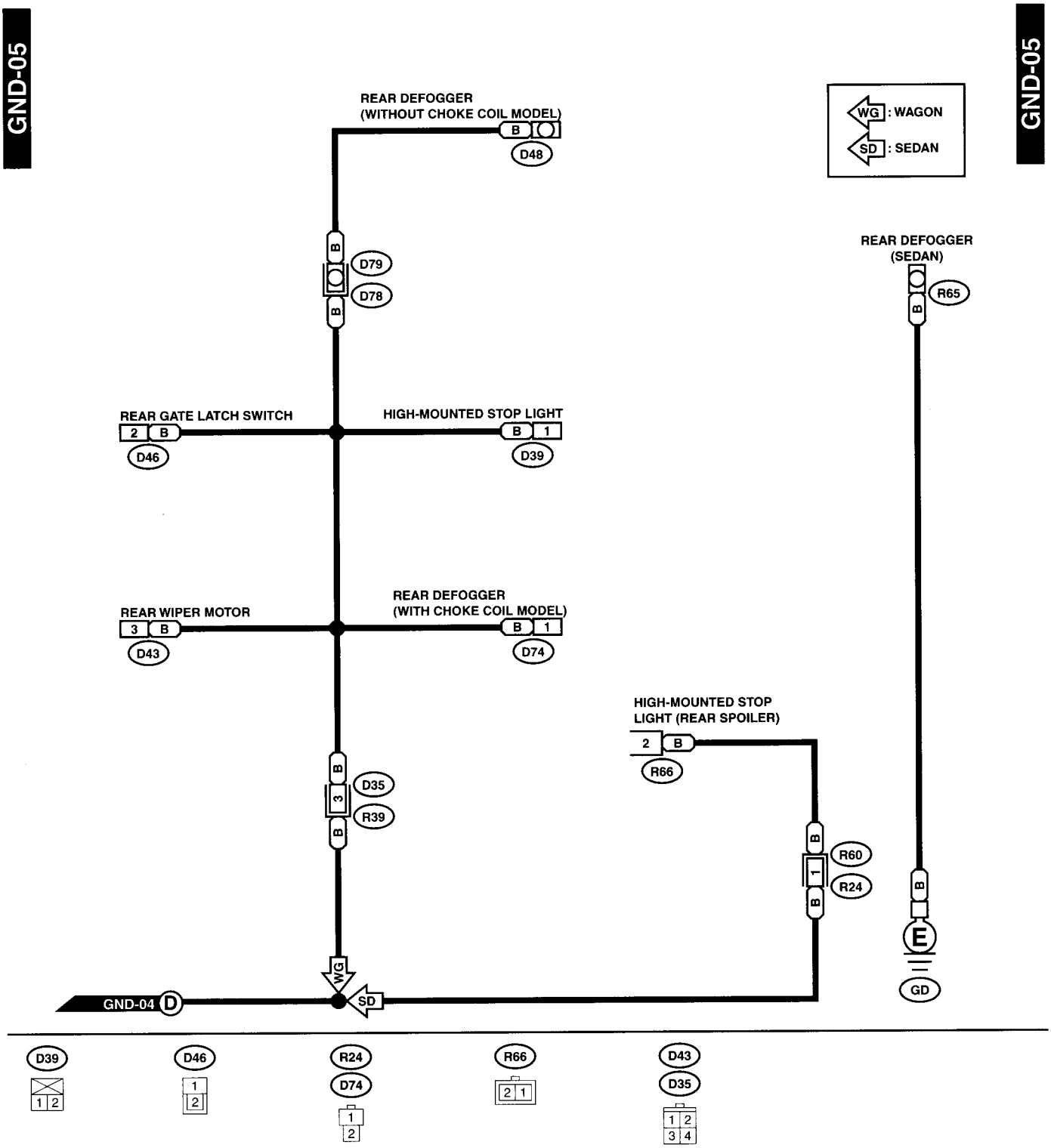
GROUND DISTRIBUTION





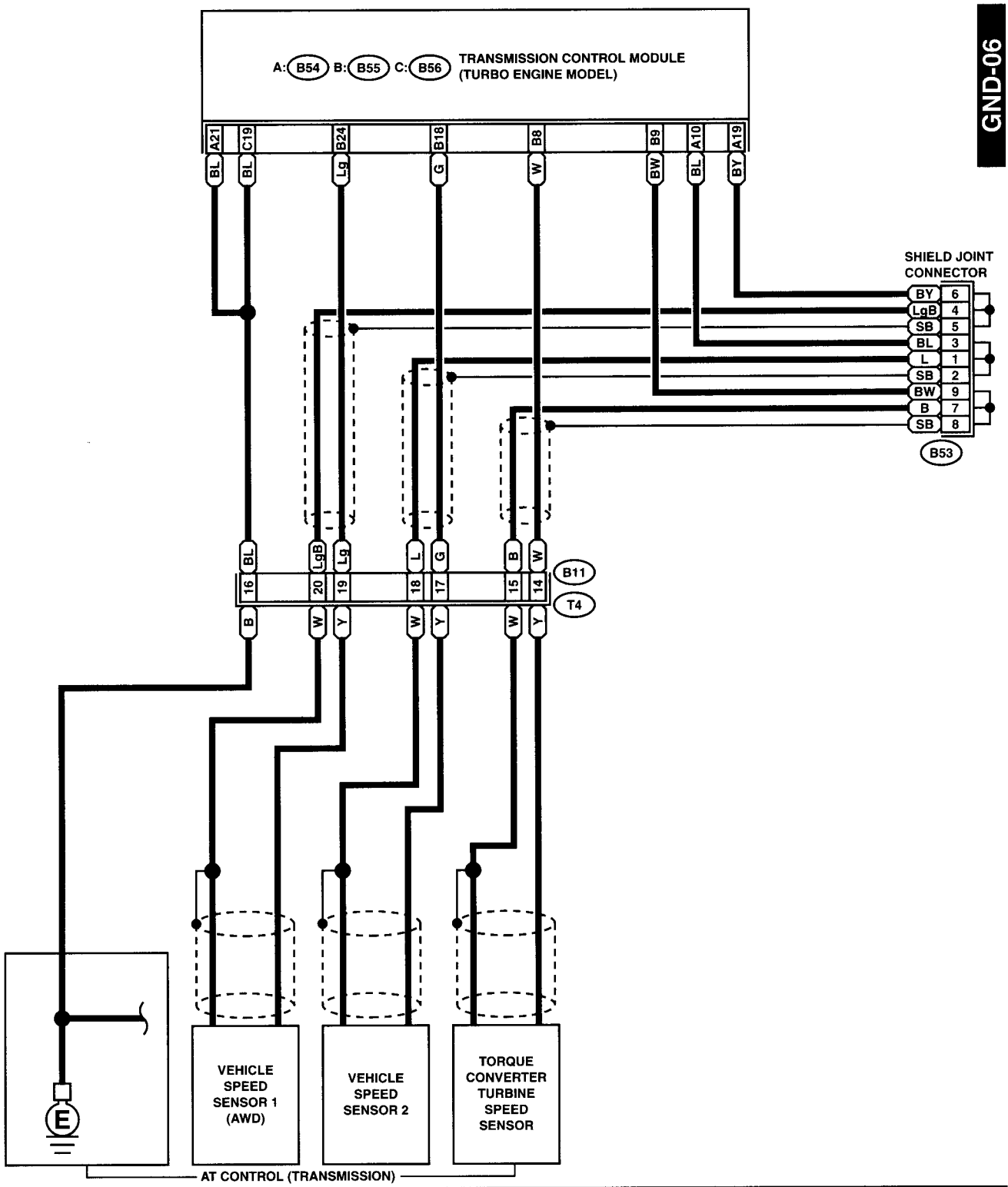
GU04-20D

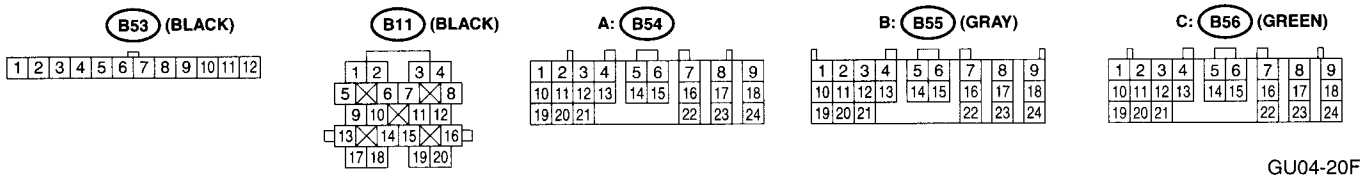
GROUND DISTRIBUTION



GU04-20E

GND-06

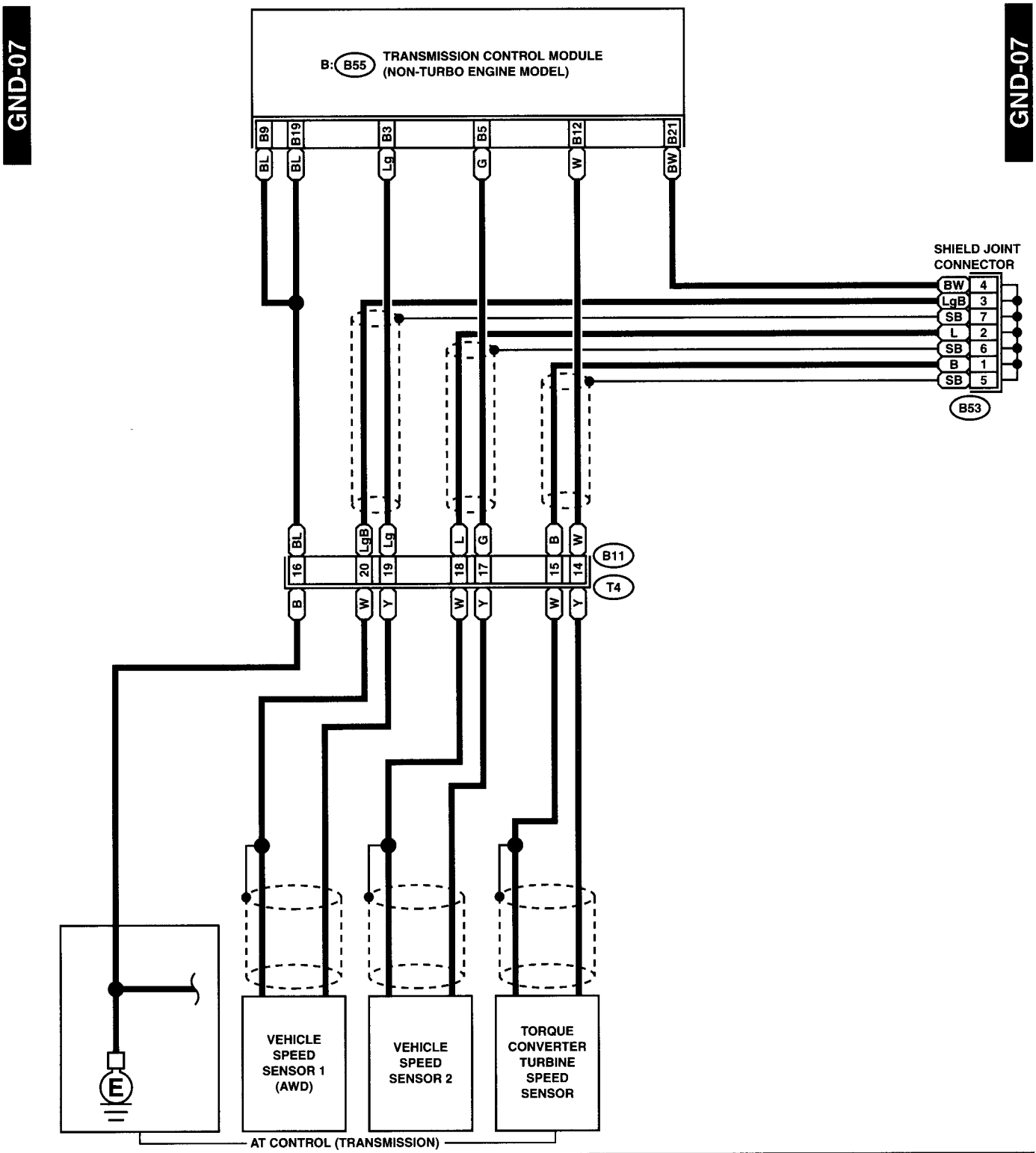


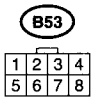


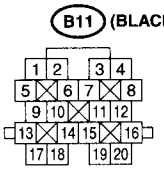
GU04-20F

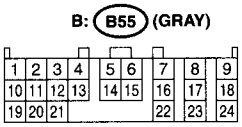
GROUND DISTRIBUTION

GND-07

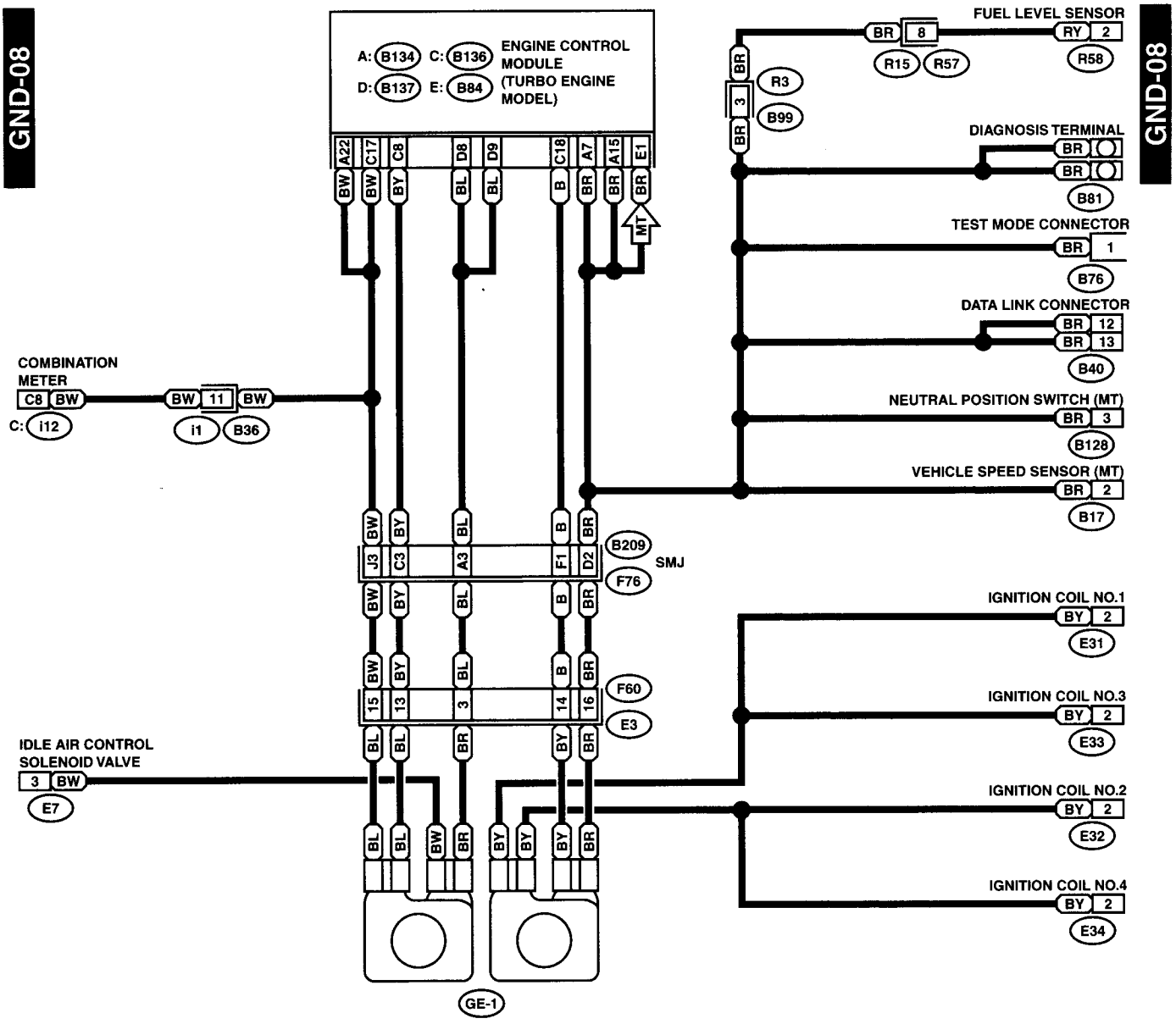


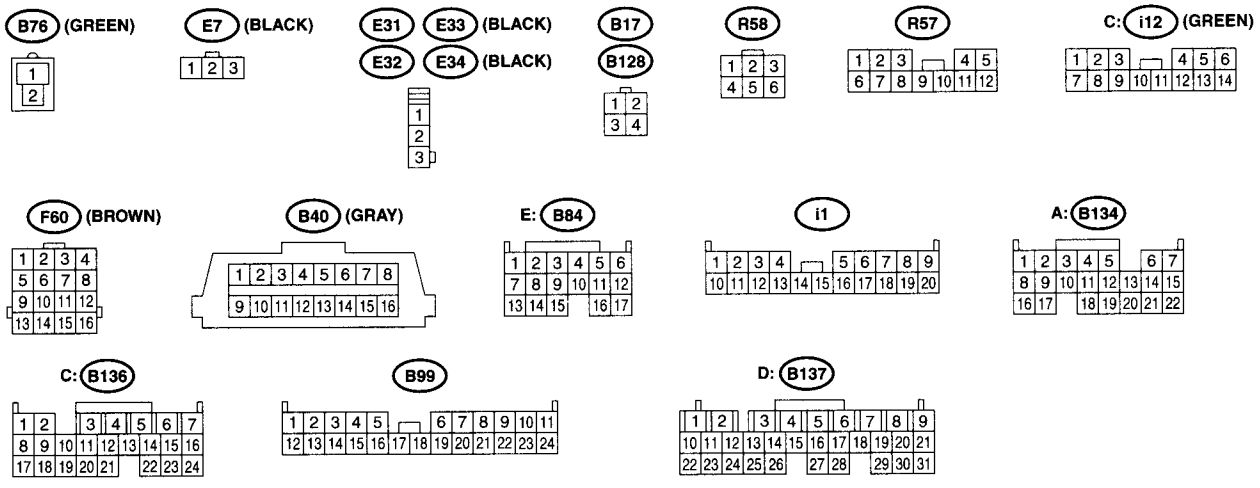






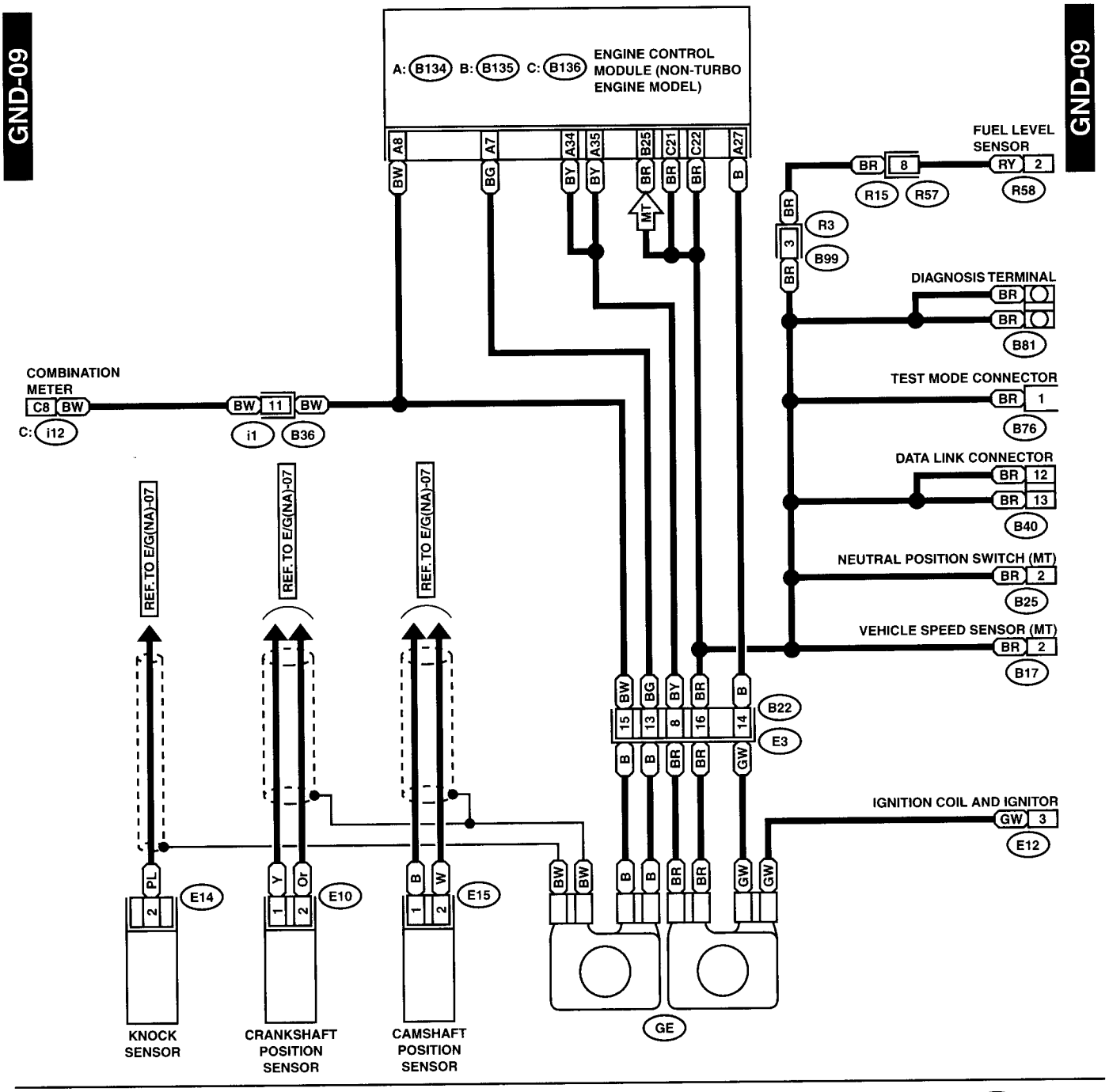
GU04-20G

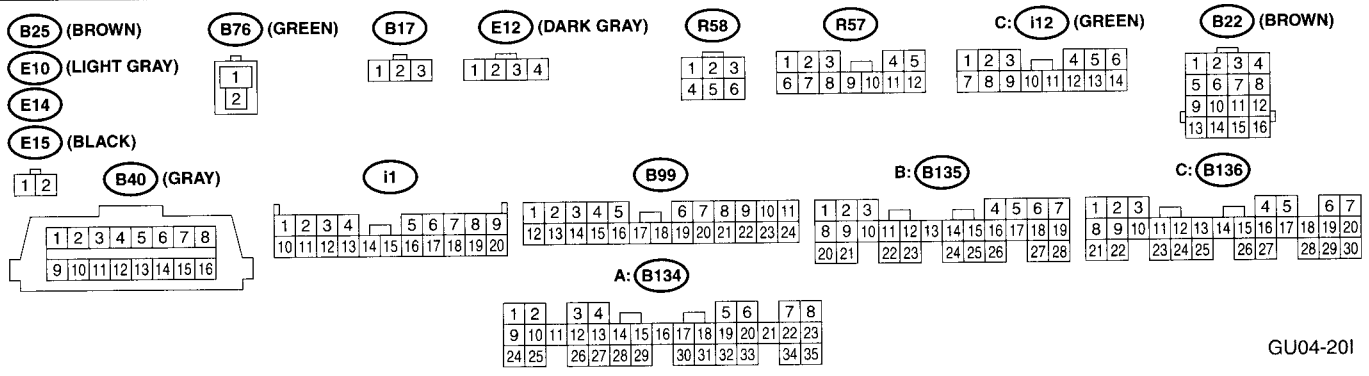

GND-08
GND-08
A: B134 C: B136 D: B137 E: B84 ENGINE CONTROL MODULE (TURBO ENGINE MODEL)
A22 C17 C8 D8 D9 C18 A7 A15 E1
BW BW BY BL BL B BR BR BR
MT
FUEL LEVEL SENSOR
BR 8
RY 2
R15 R57
R58
BR
3
R3
B99
BR
DIAGNOSIS TERMINAL
BR
BR
B81
TEST MODE CONNECTOR
BR 1
B76
DATA LINK CONNECTOR
BR 12
BR 13
B40
NEUTRAL 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
15 13 3 14 16
F60
E3
IDLE AIR CONTROL SOLENOID VALVE
3 BW
E7
BL BL BR BY BR
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
BL BL BW BR BY BY BY BR
GE-1


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

GU04-20H

GROUND DISTRIBUTION

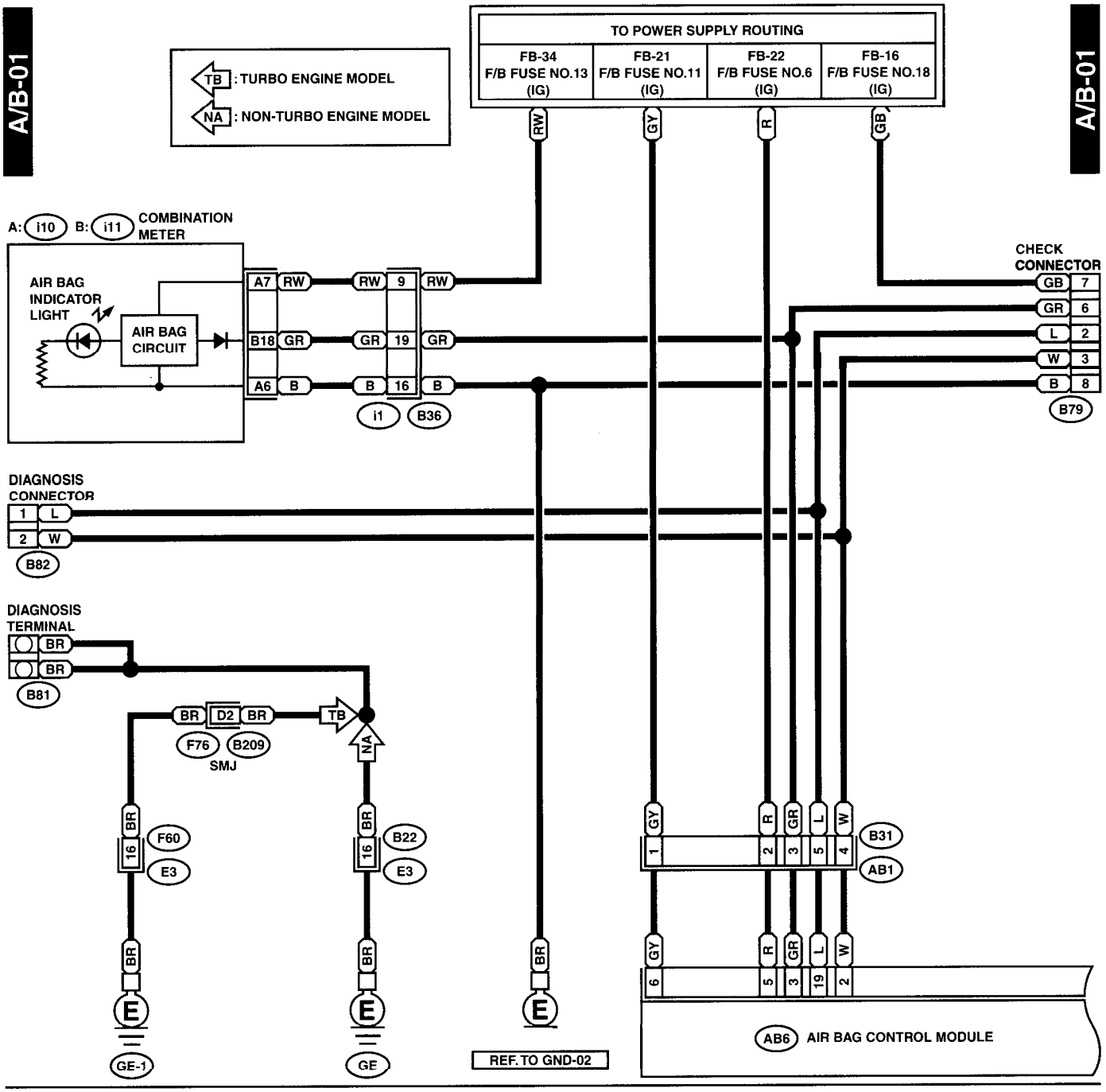


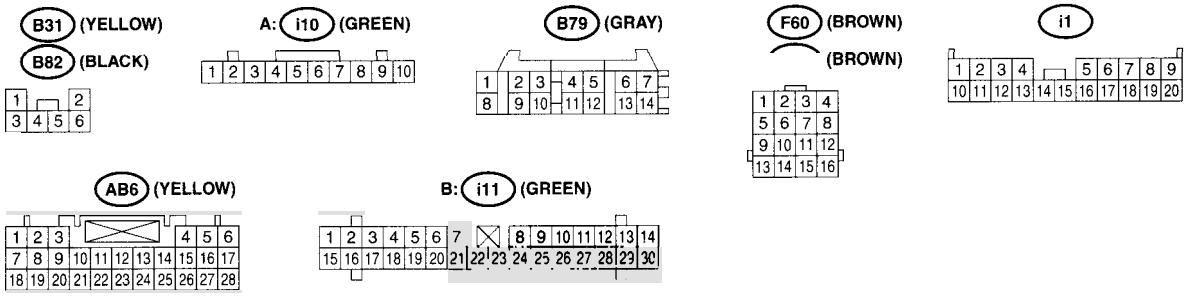


GU04-201

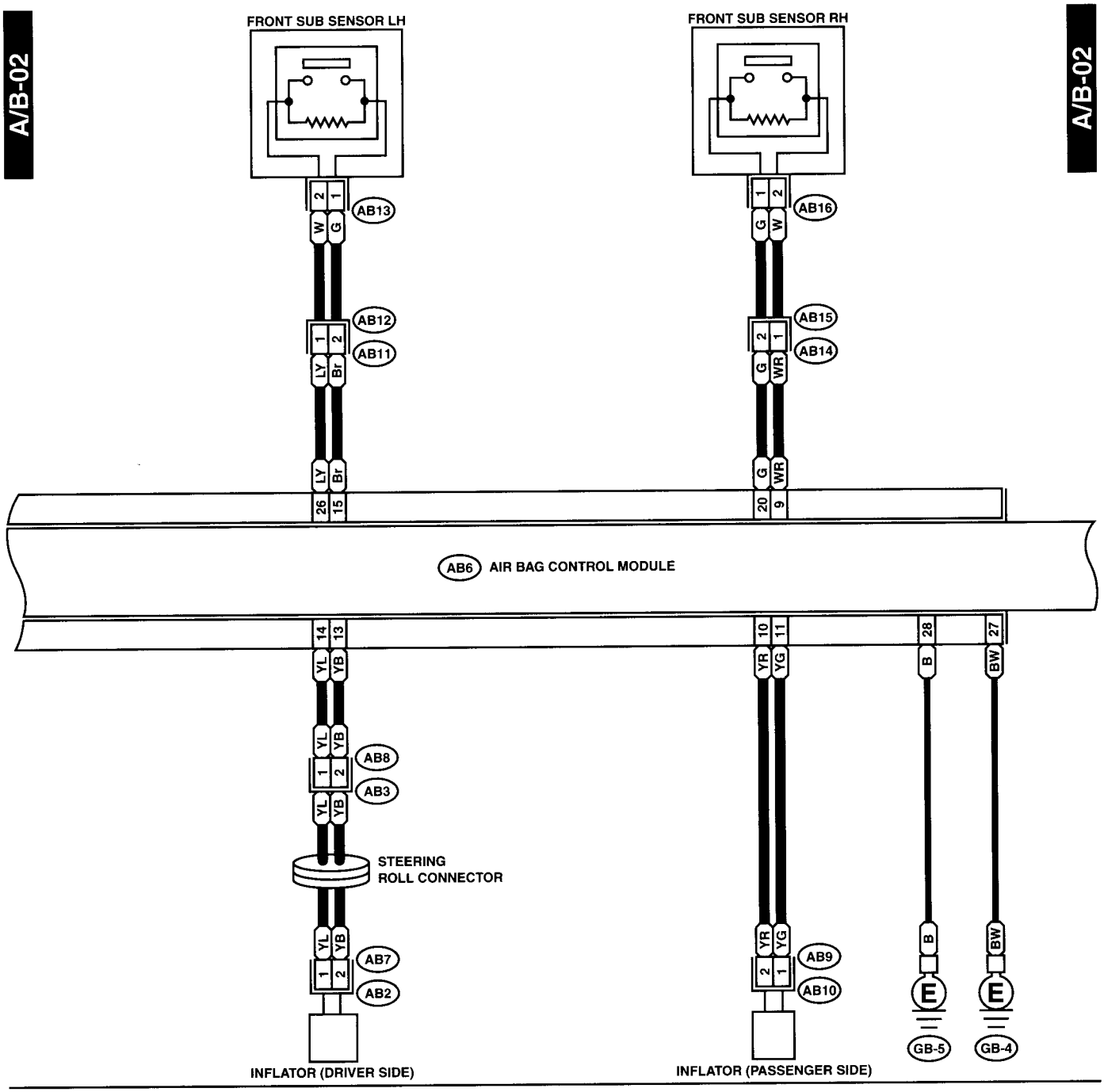
6. Airbag System

A: SCHEMATIC



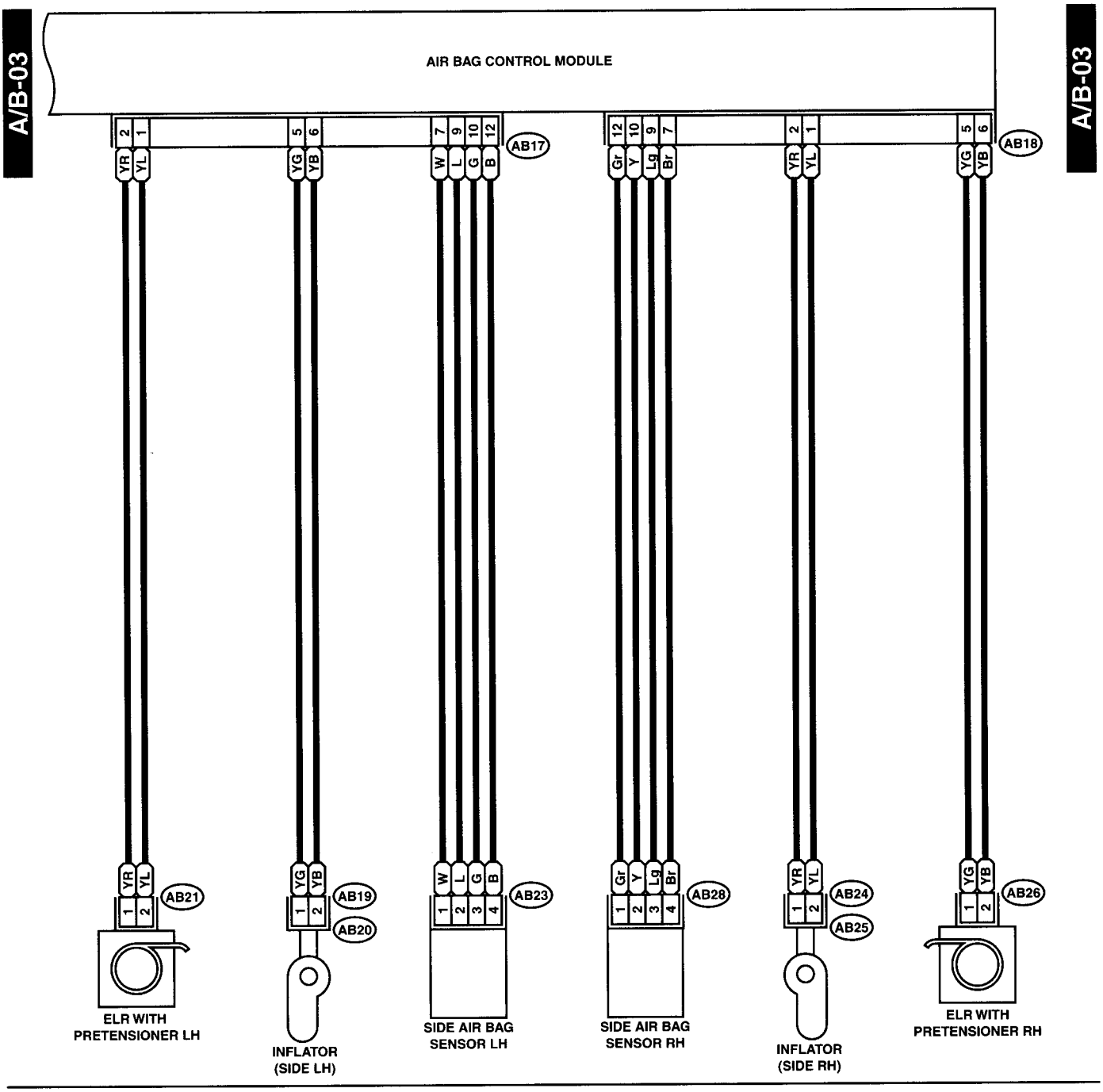


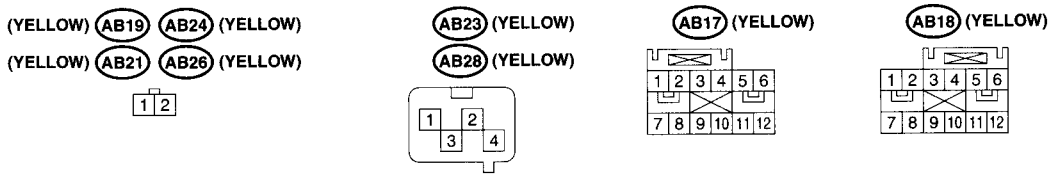
GU86-20A



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

GU86-20B

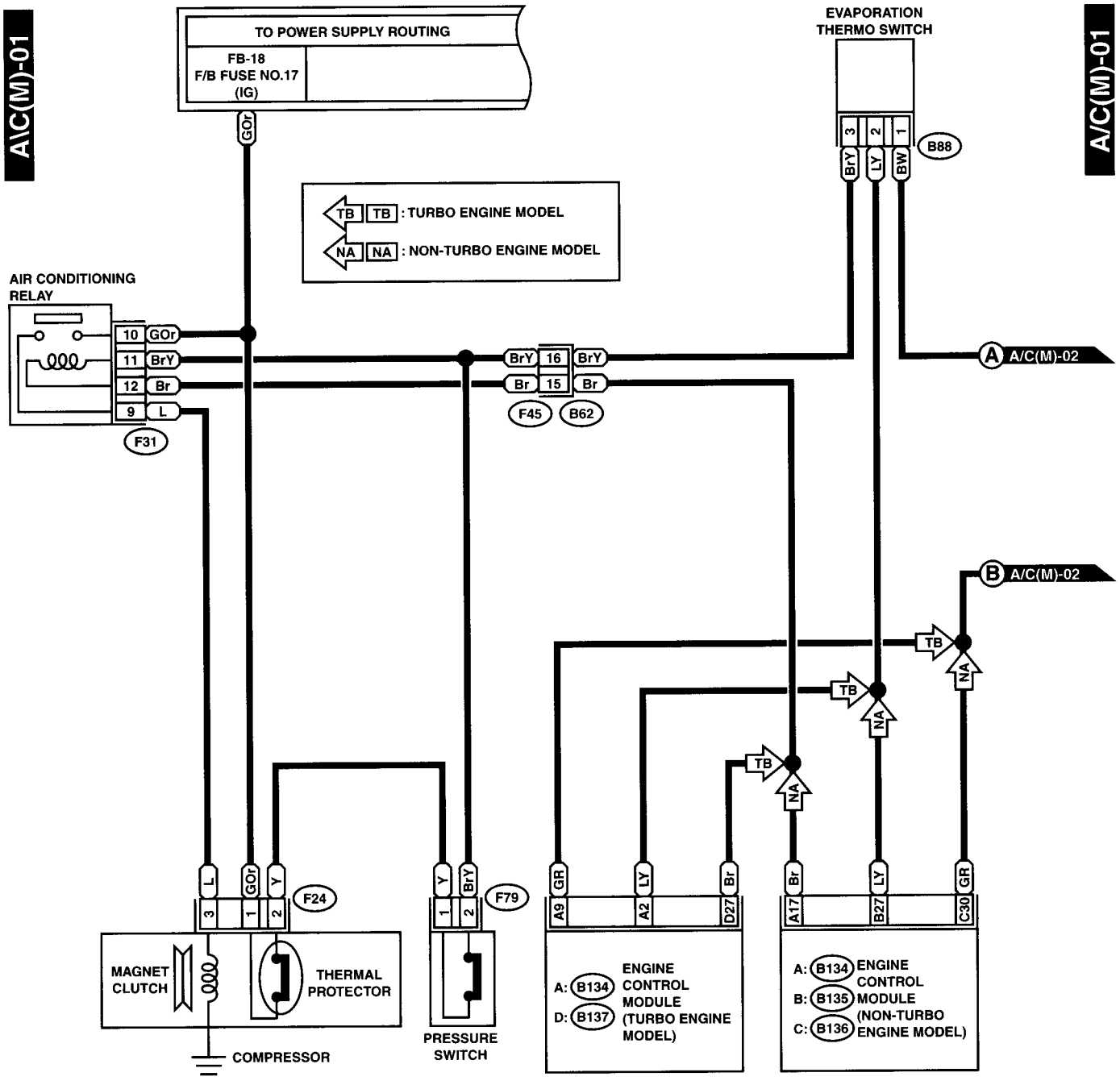

A/B-03
A/B-03
AIR BAG CONTROL MODULE
AB17
AB18
YR
YL
YG
YB
W
L
G
B
Gr
Y
Lg
Br
AB21
AB19
AB20
AB23
AB28
AB24
AB25
AB26
ELR WITH PRETENSIONER LH
INFLATOR (SIDE LH)
SIDE AIR BAG SENSOR LH
SIDE AIR BAG SENSOR RH
INFLATOR (SIDE RH)
ELR WITH PRETENSIONER RH

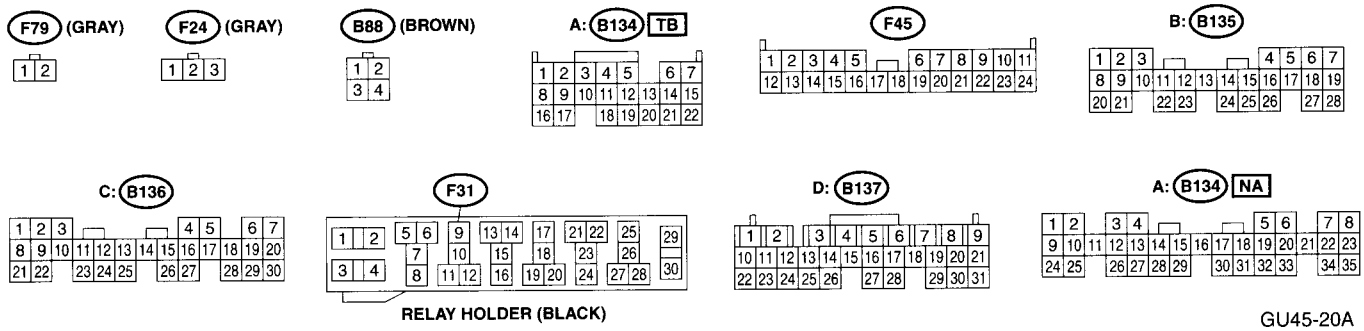

(YELLOW) AB19 AB24 (YELLOW)
(YELLOW) AB21 AB26 (YELLOW)
AB23 (YELLOW)
AB28 (YELLOW)
AB17 (YELLOW)
AB18 (YELLOW)

GU86-20C

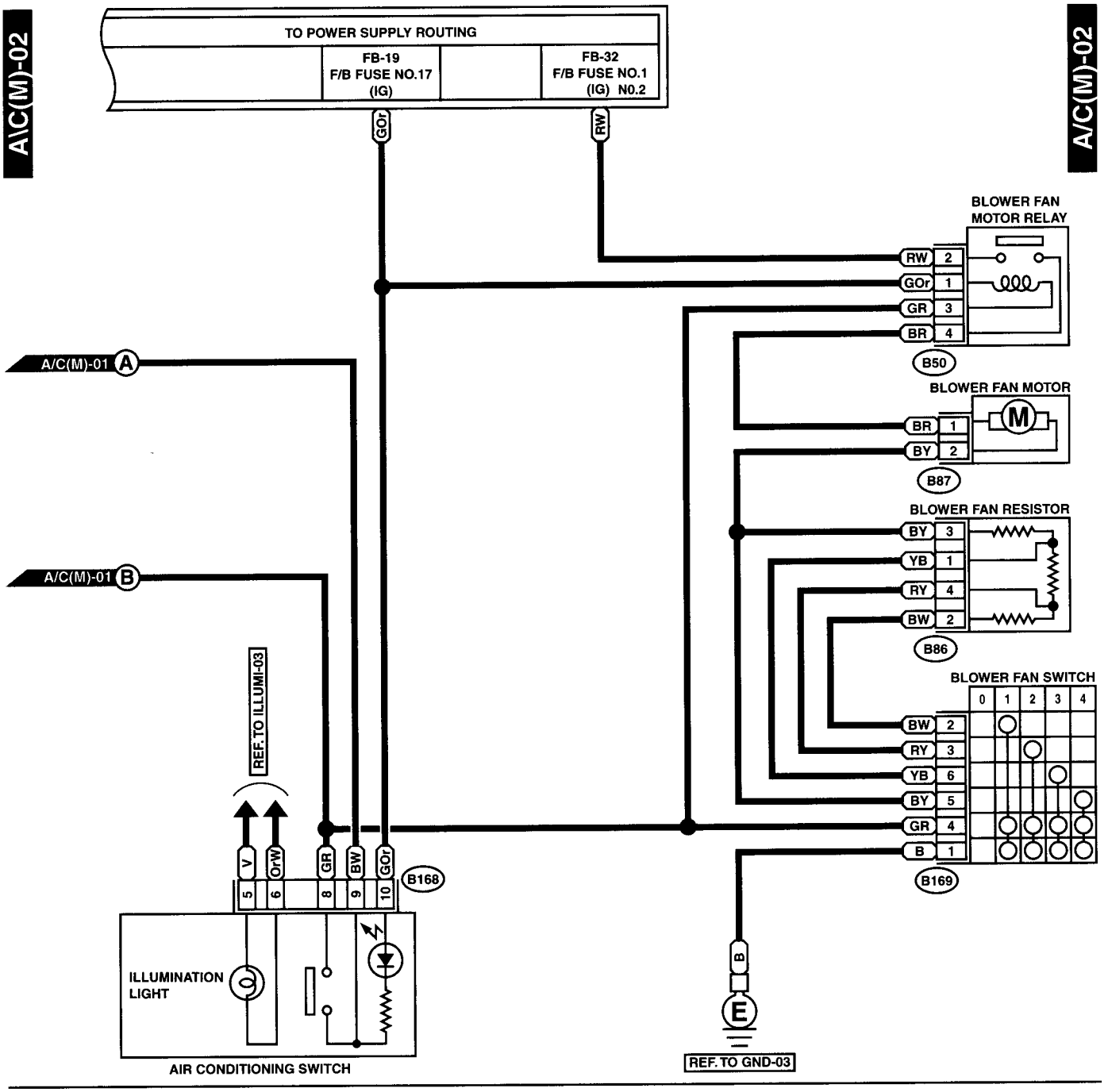
7. Air Conditioning System

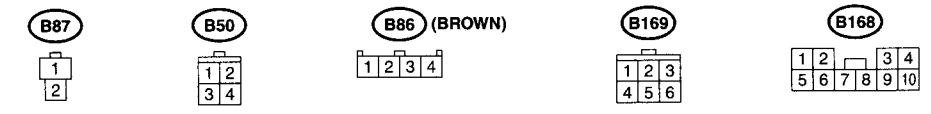
A: SCHEMATIC





GU45-20A

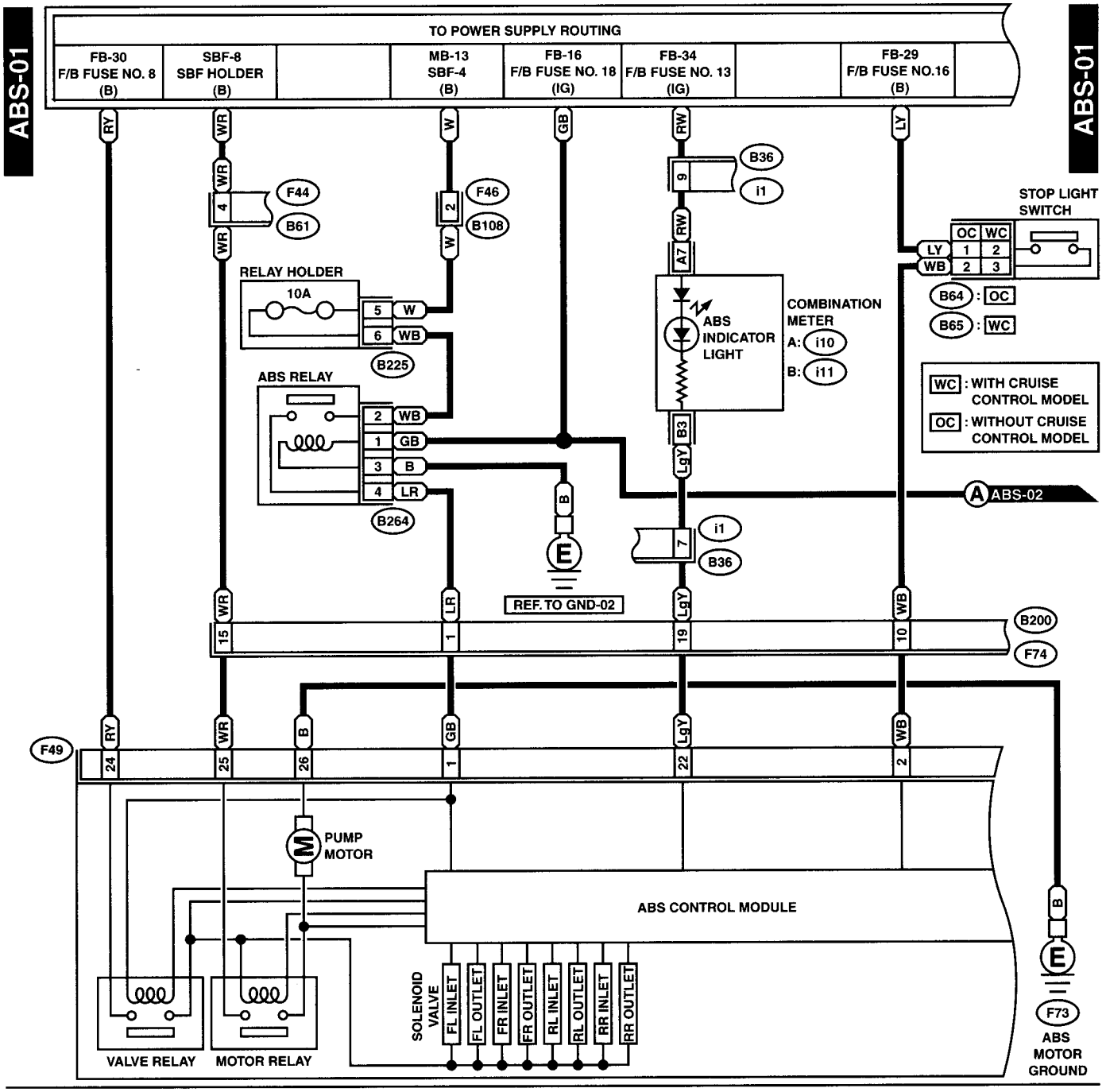

A\C(M)-02
A/C(M)-02
TO POWER SUPPLY ROUTING
FB-19
F/B FUSE NO.17
(IG)
FB-32
F/B FUSE NO.1
(IG) N0.2
GOr
RW
BLOWER FAN
MOTOR RELAY
RW 2
GOr 1
GR 3
BR 4
B50
BLOWER FAN MOTOR
BR 1
BY 2
B87
BLOWER FAN RESISTOR
BY 3
YB 1
RY 4
BW 2
B86
BLOWER FAN SWITCH
0 1 2 3 4
BW 2
RY 3
YB 6
BY 5
GR 4
B 1
B169
A/C(M)-01 A
A/C(M)-01 B
REF.TO ILLUMI-03
V
OrW
GR
BW
GOr
5 6 8 9 10
B168
ILLUMINATION
LIGHT
AIR CONDITIONING SWITCH
B
E
REF.TO GND-03


B87
1
2
B50
1 2
3 4
B86 (BROWN)
1 2 3 4
B169
1 2 3
4 5 6
B168
1 2 3 4
5 6 7 8 9 10

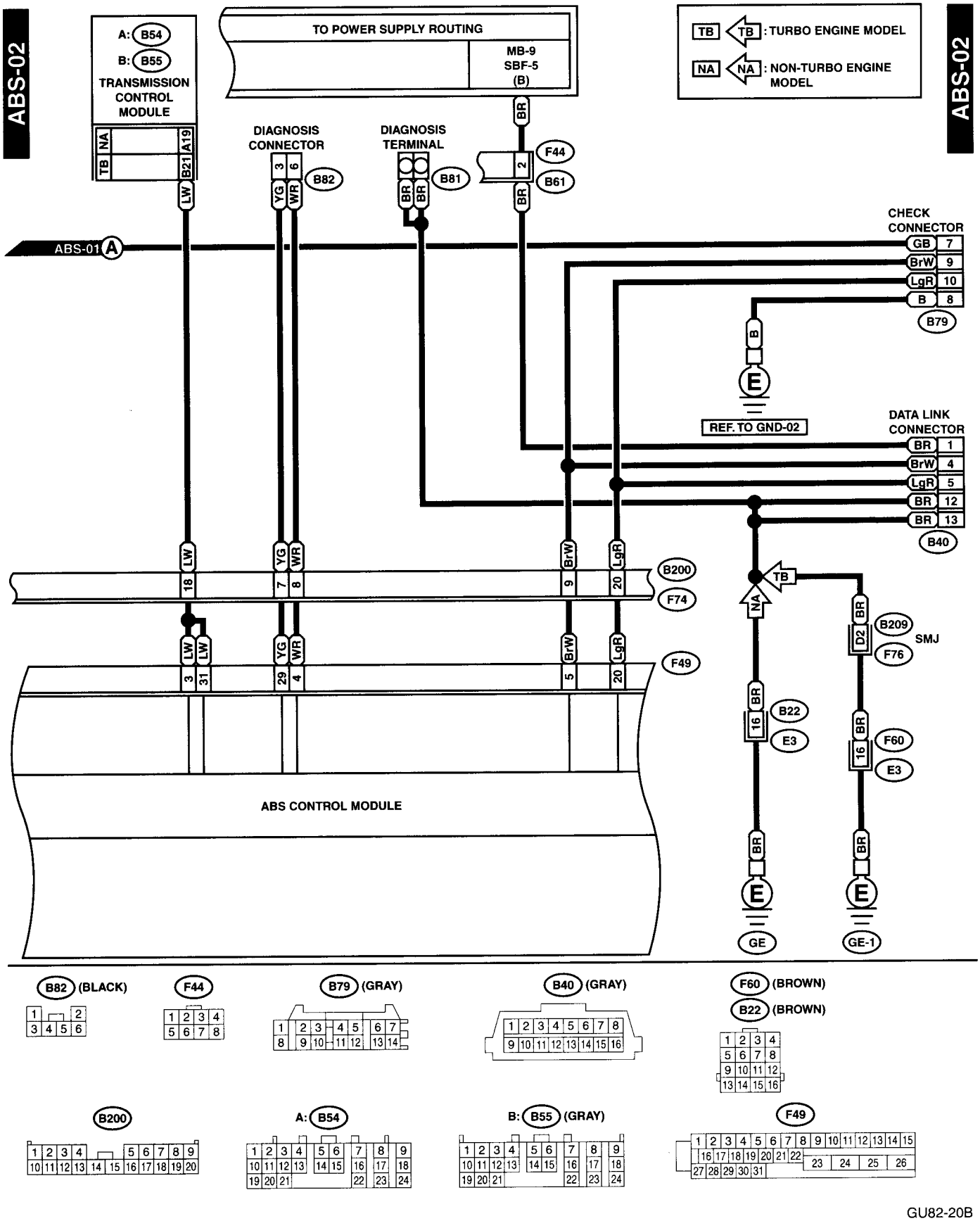
GU45-20B

8. Anti-lock Brake System

A: SCHEMATIC

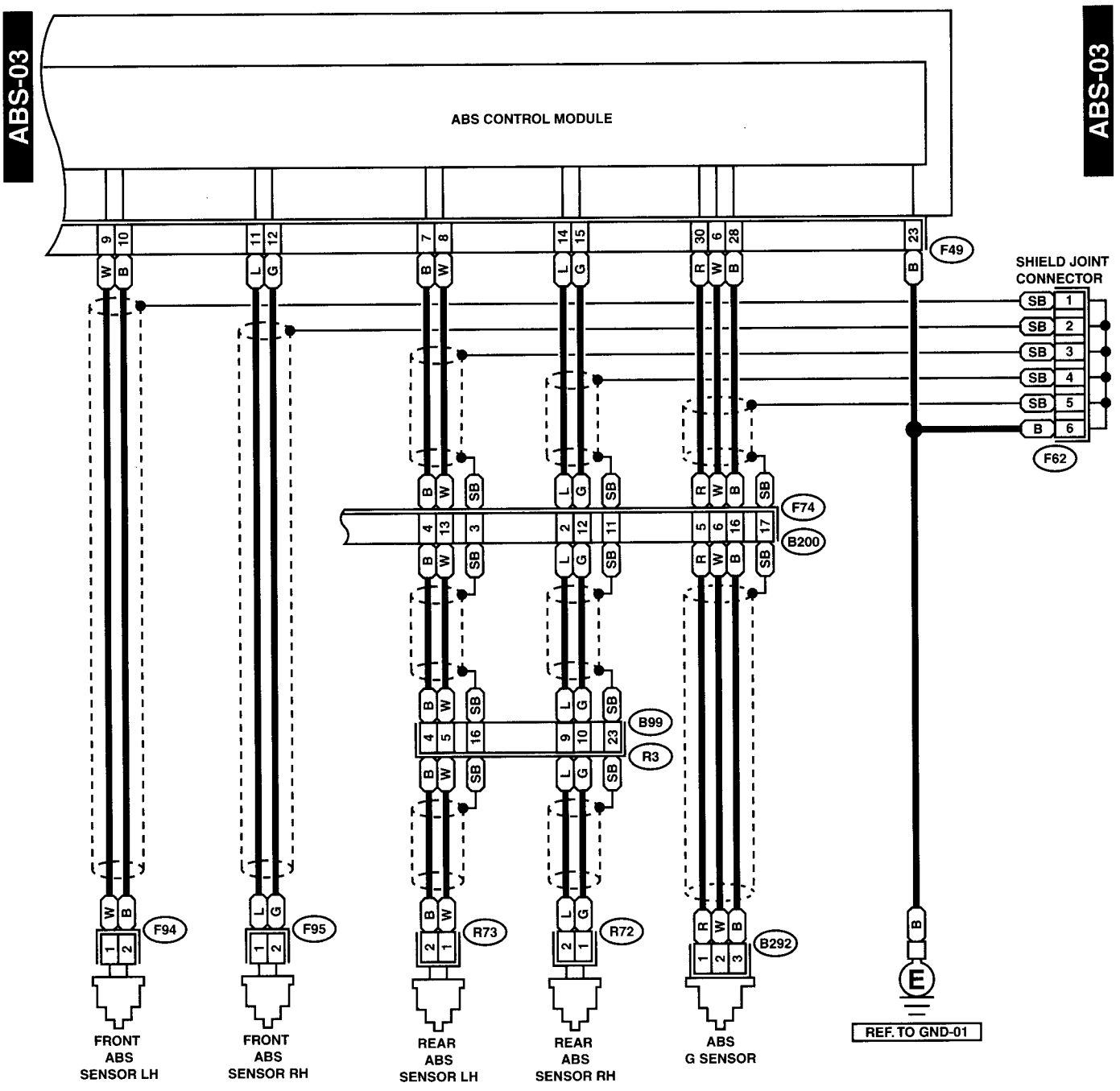


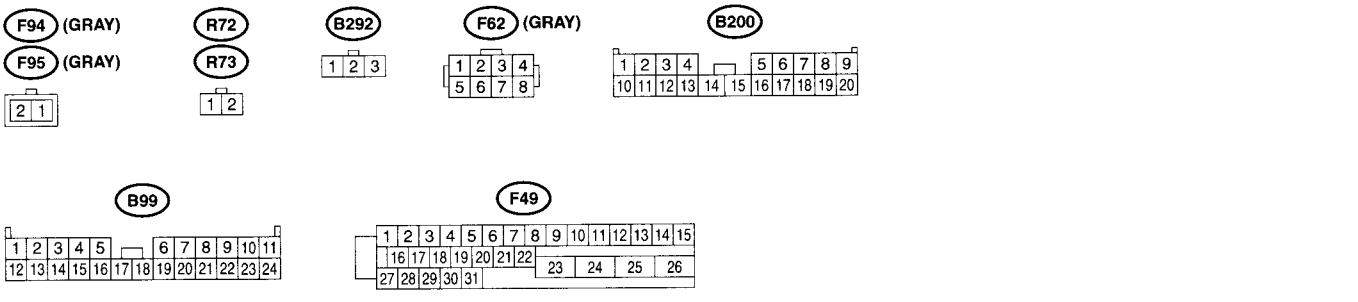
GU82-20A


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
ABS-01 A
REF. TO GND-02
DATA LINK CONNECTOR
B40
B200
F74
F49
B209
SMJ
F76
B22
E3
F60
E3
ABS CONTROL MODULE
GE
GE-1

B82 (BLACK)
F44
B79 (GRAY)
B40 (GRAY)
F60 (BROWN)
B22 (BROWN)
B200
A: B54
B: B55 (GRAY)
F49

GU82-20B


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

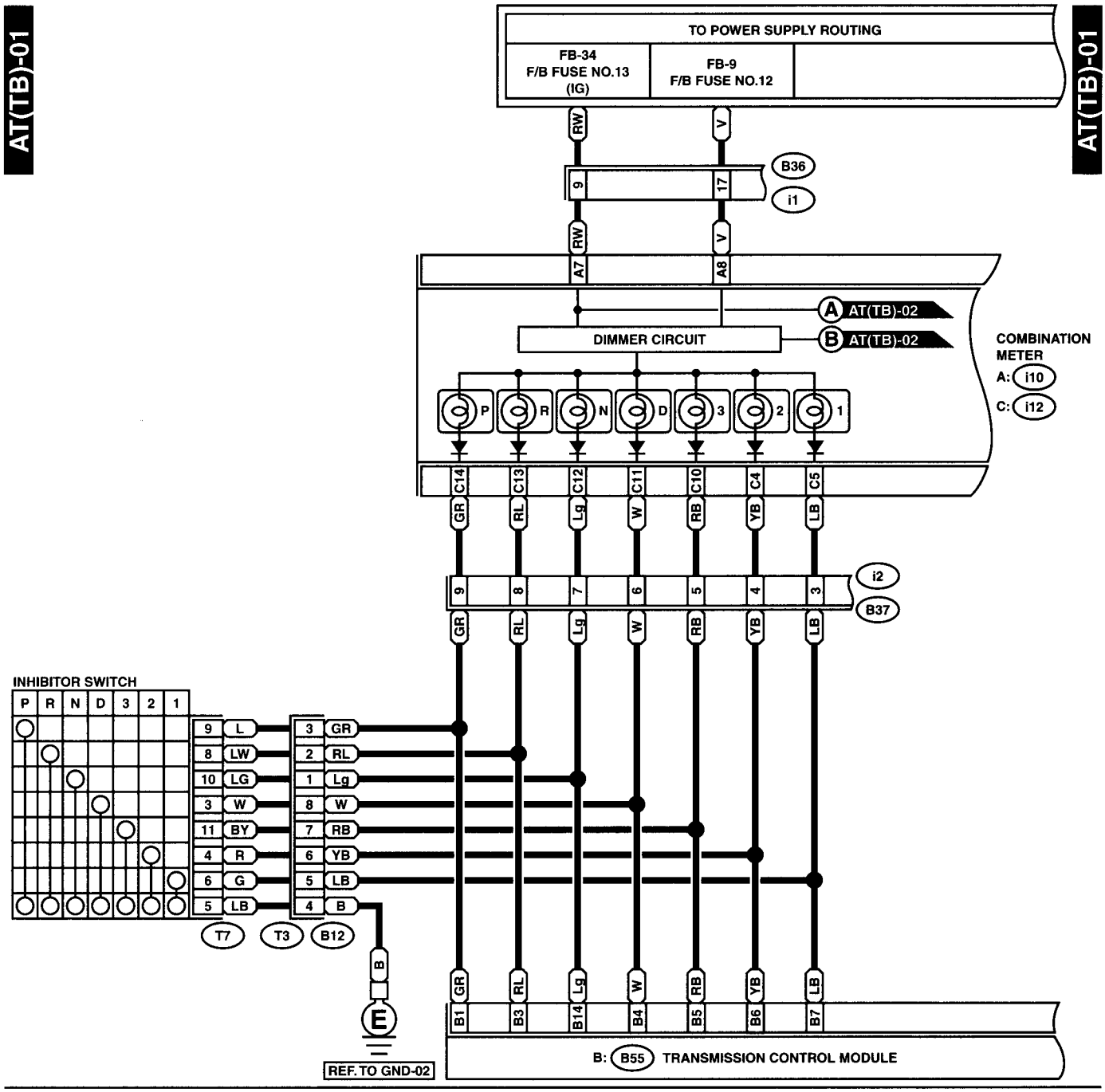

F94 (GRAY)
F95 (GRAY)
R72
R73
B292
F62 (GRAY)
B200
B99
F49

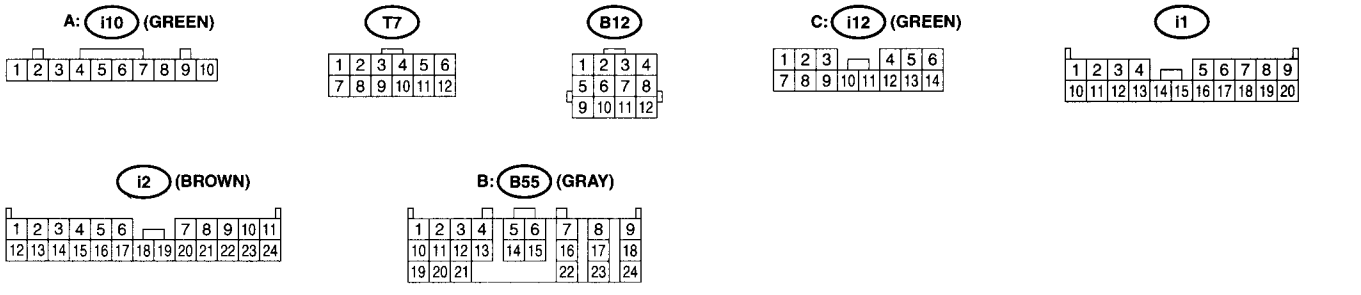
GU82-20C

9. A/T Control System

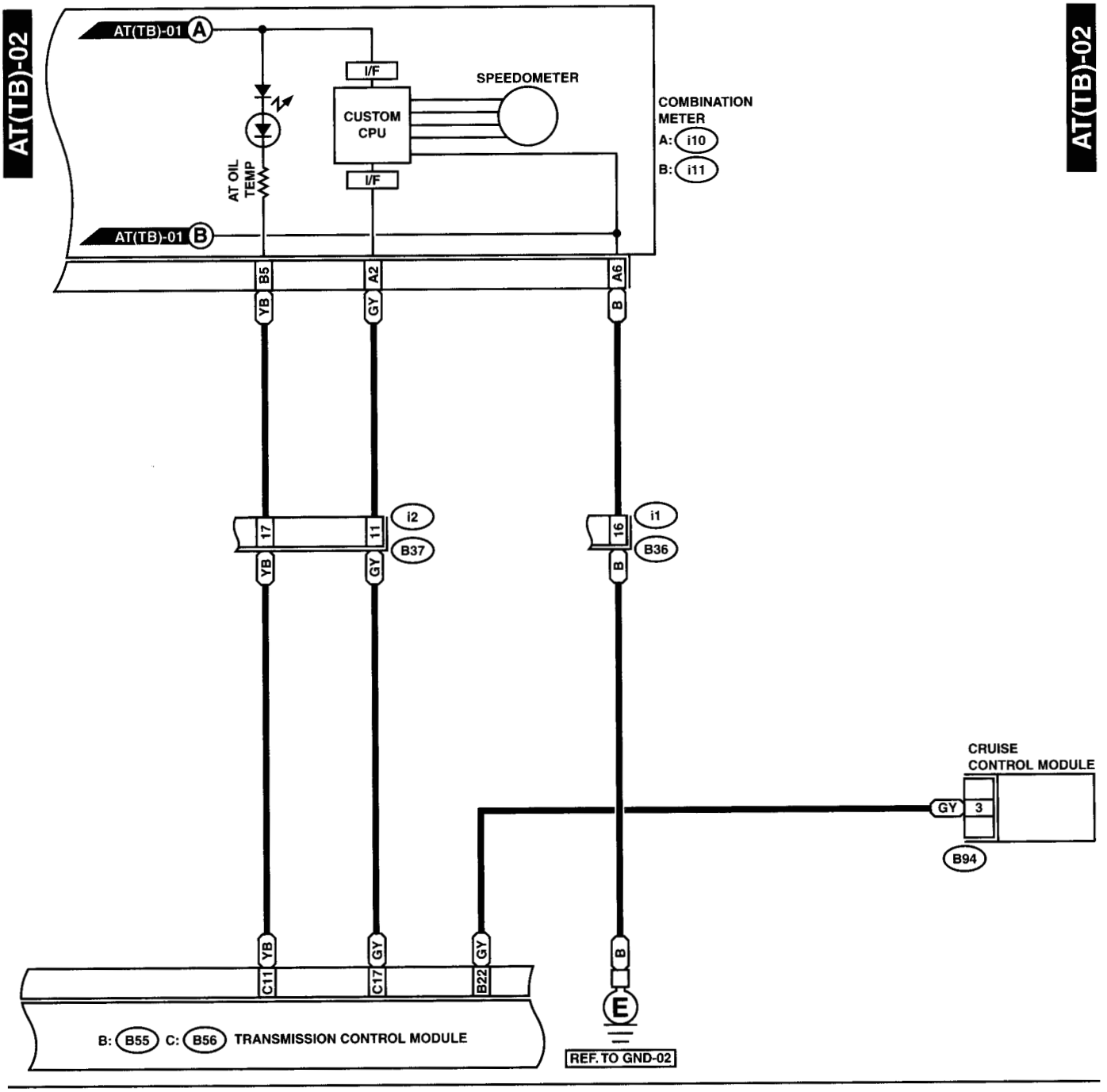
A: SCHEMATIC

1. TURBO ENGINE MODEL

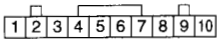




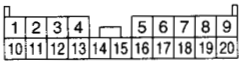
GU41-20A



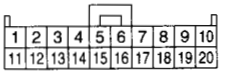
A: i10 (GREEN)



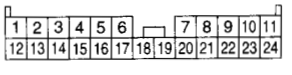
i1



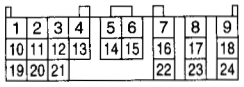
B94 (BLACK)



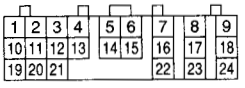
i2 (BROWN)



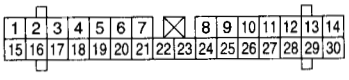
B: B55 (GRAY)



C: B56 (GREEN)

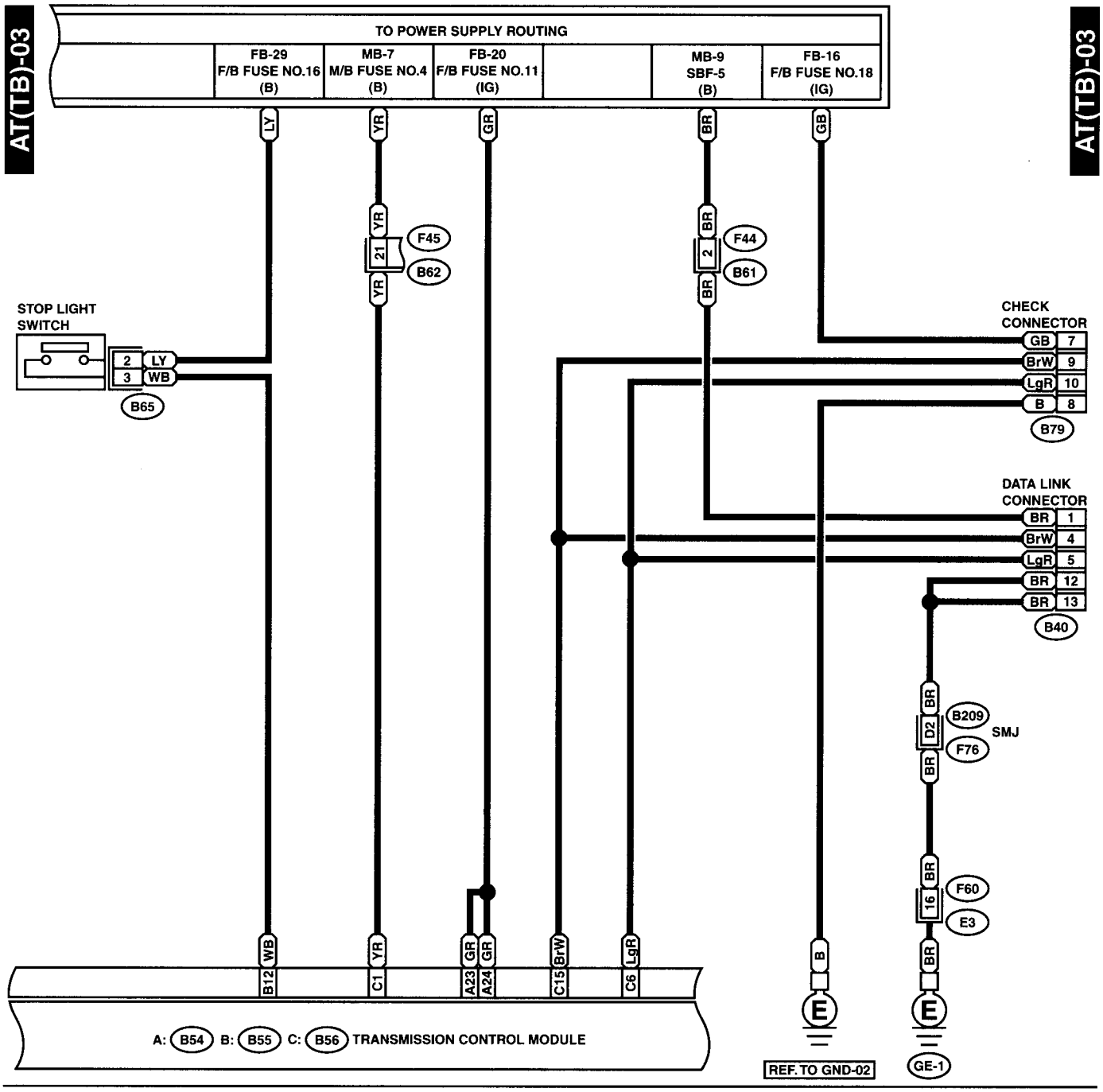


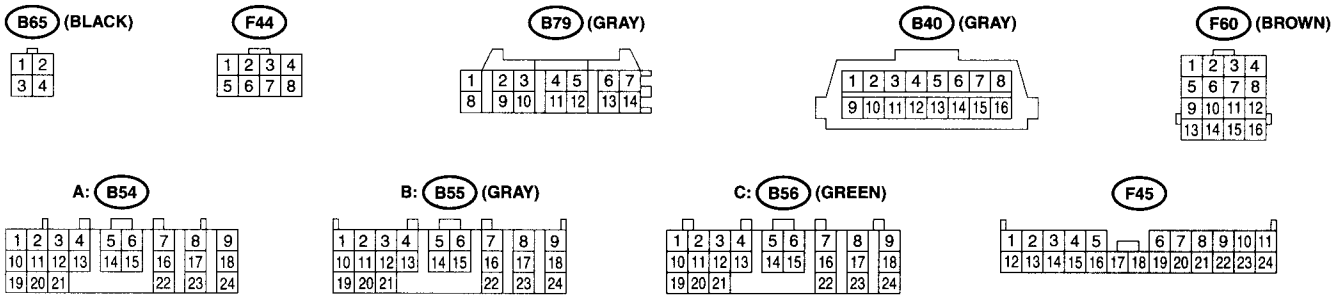
B: i11 (GREEN)



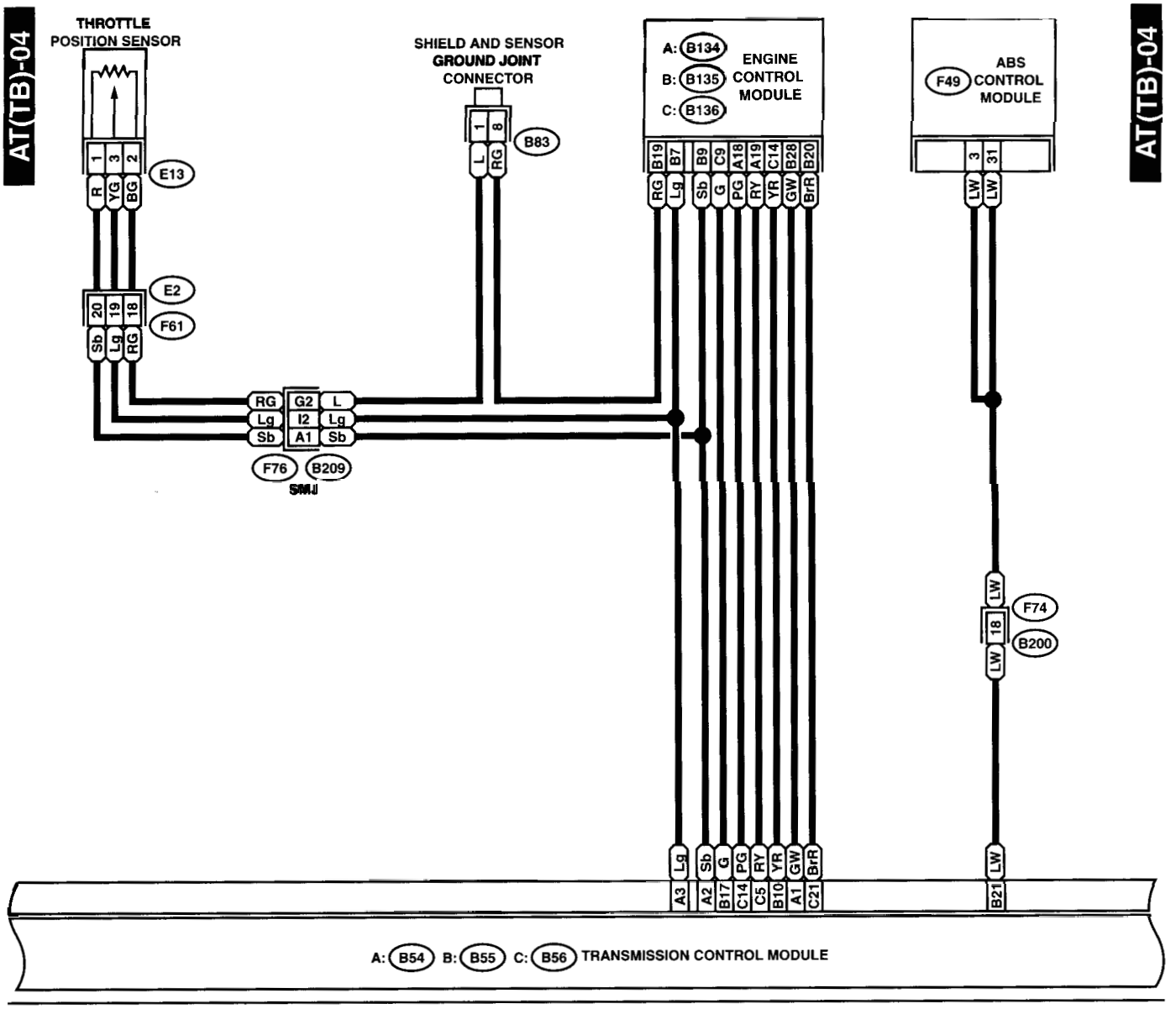
GU41-20B

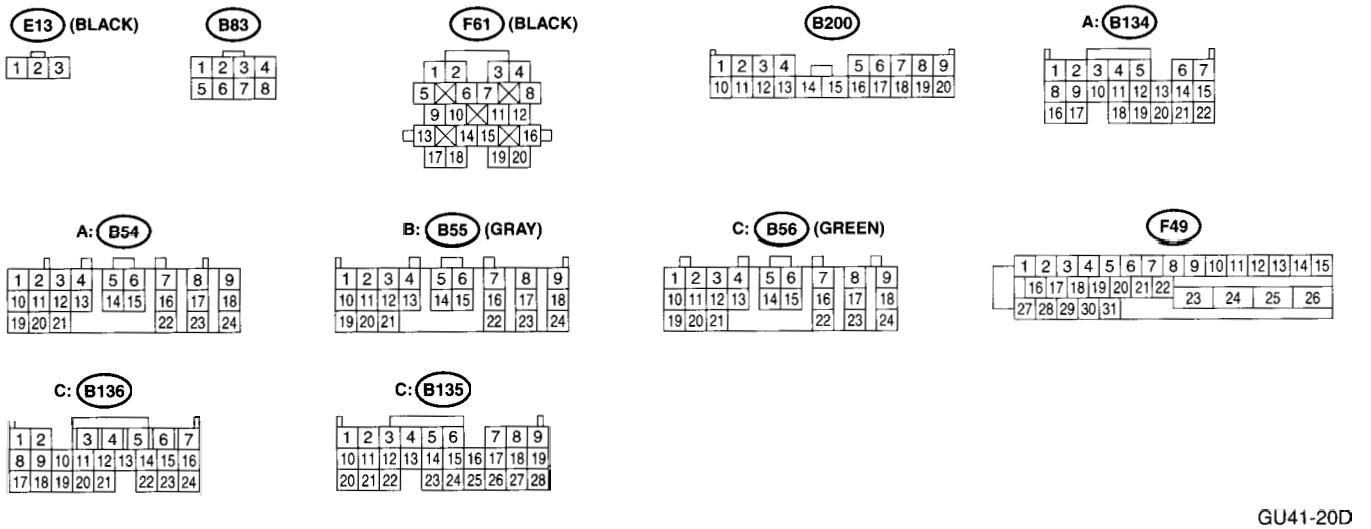
A/T CONTROL SYSTEM



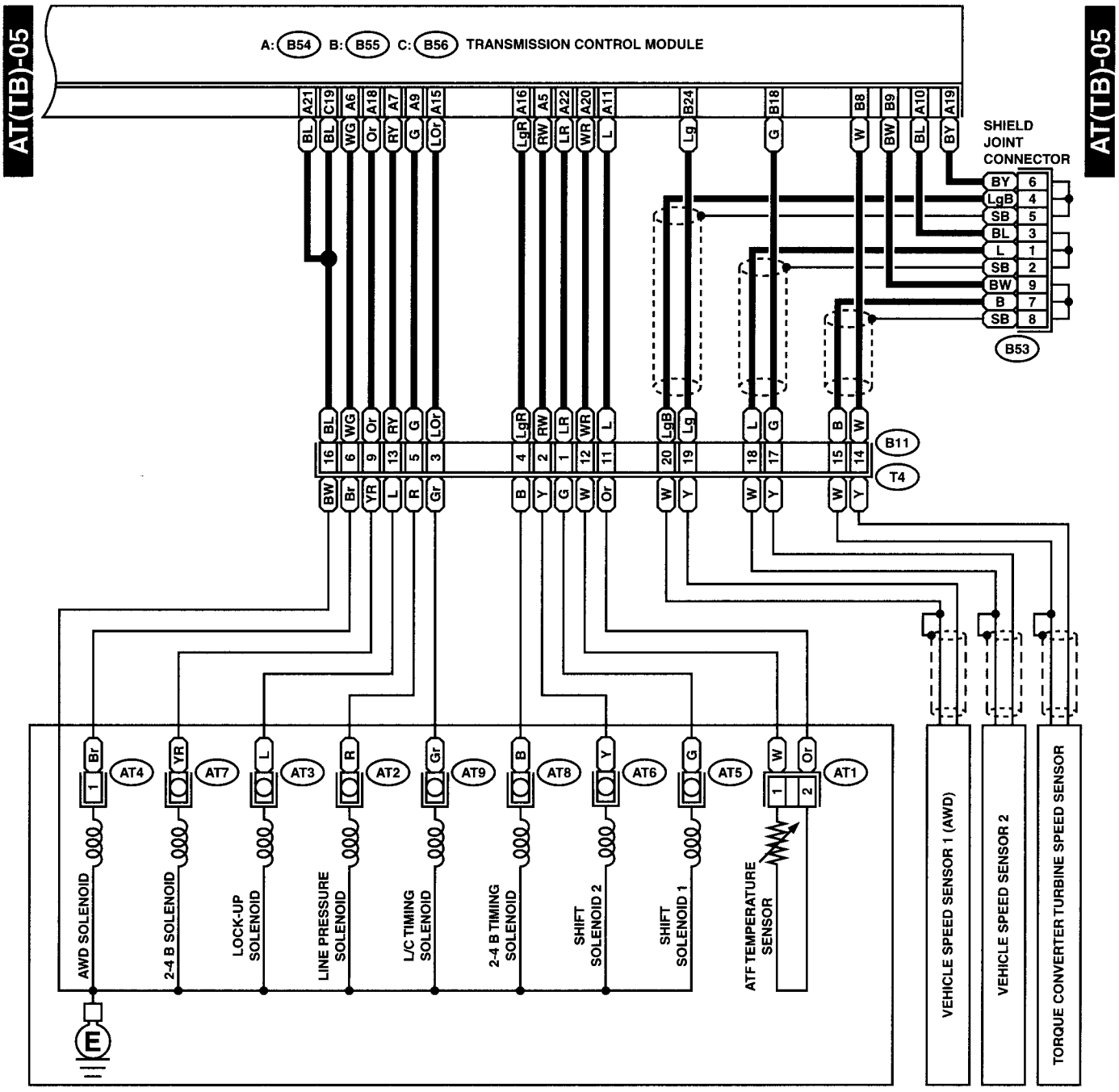


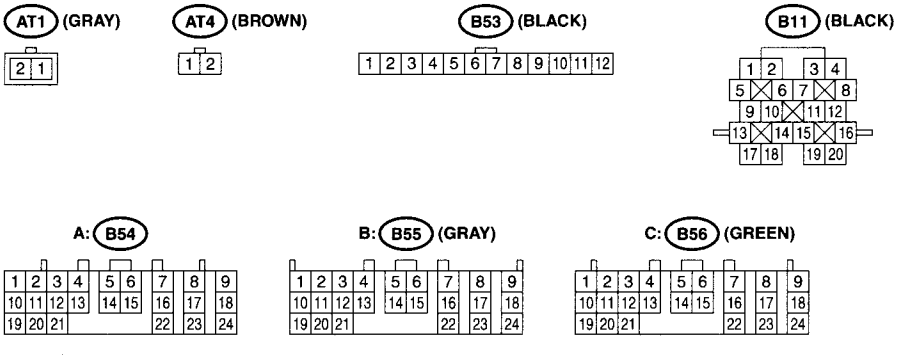
GU41-20C


AT(TB)-04
THROTTLE POSITION SENSOR
E13
E2
F61
SHIELD AND SENSOR GROUND JOINT CONNECTOR
B83
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE
F49
ABS CONTROL MODULE
F74
B200
F76
B209
SMJ
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE


E13 (BLACK)
B83
F61 (BLACK)
B200
A: B134
A: B54
B: B55 (GRAY)
C: B56 (GREEN)
F49
C: B136
C: B135

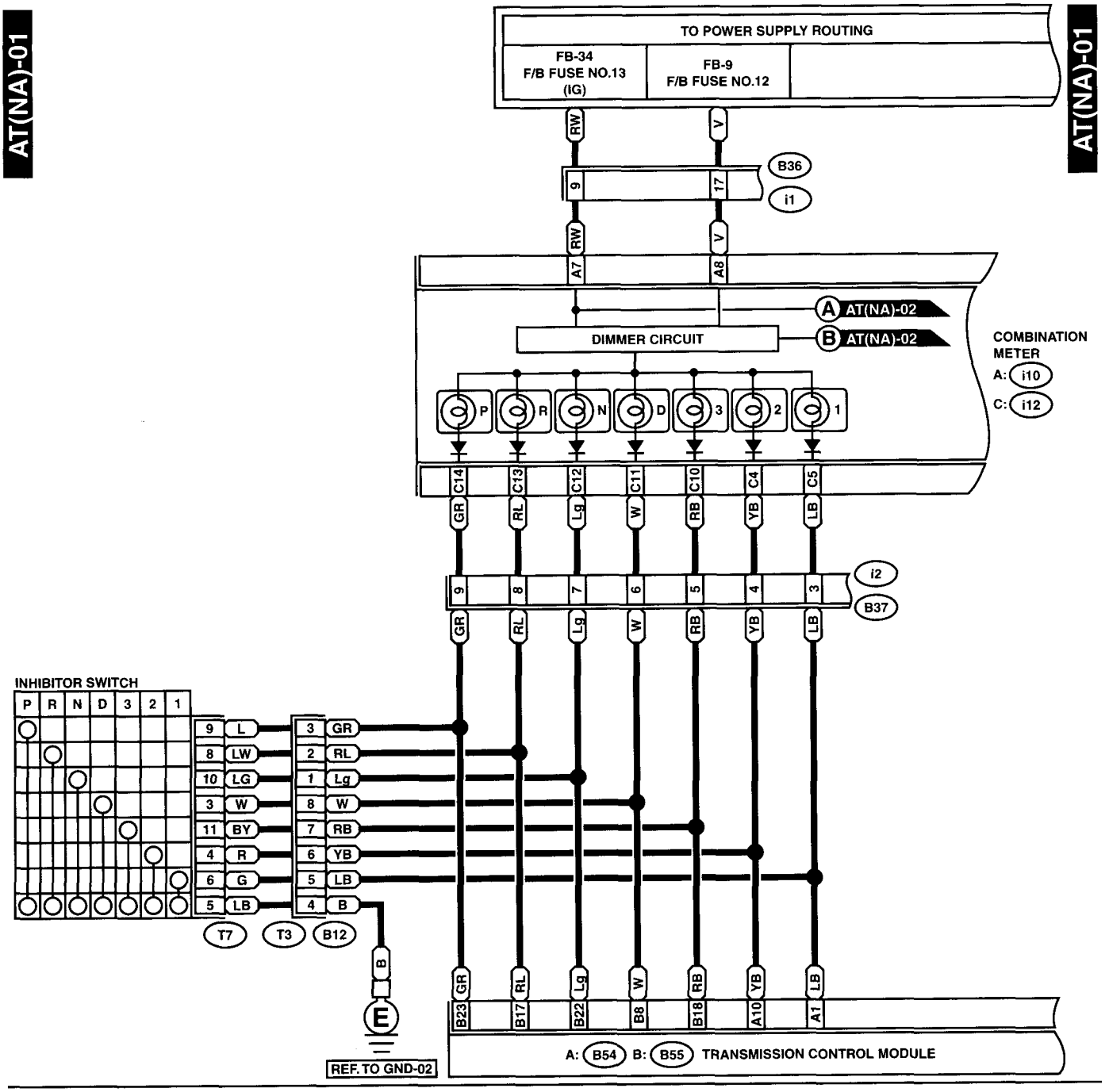
GU41-20D

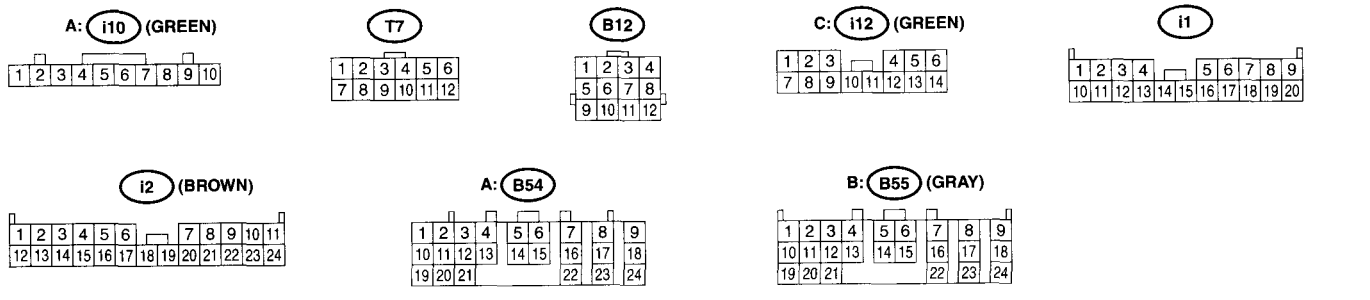

AT(TB)-05
AT(TB)-05
A: B54 B: B55 C: B56 TRANSMISSION CONTROL MODULE
A21 C19 A6 A18 A7 A9 A15 A16 A5 A22 A20 A11 B24 B18 B8 B9 A10 A19
BL BL WG Or RY G LOr LgR RW LR WR L Lg G W BW BL BY
SHIELD JOINT CONNECTOR
BY 6
LgB 4
SB 5
BL 3
L 1
SB 2
BW 9
B 7
SB 8
B53
BL WG Or RY G LOr LgR RW LR WR L LgB Lg L G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


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

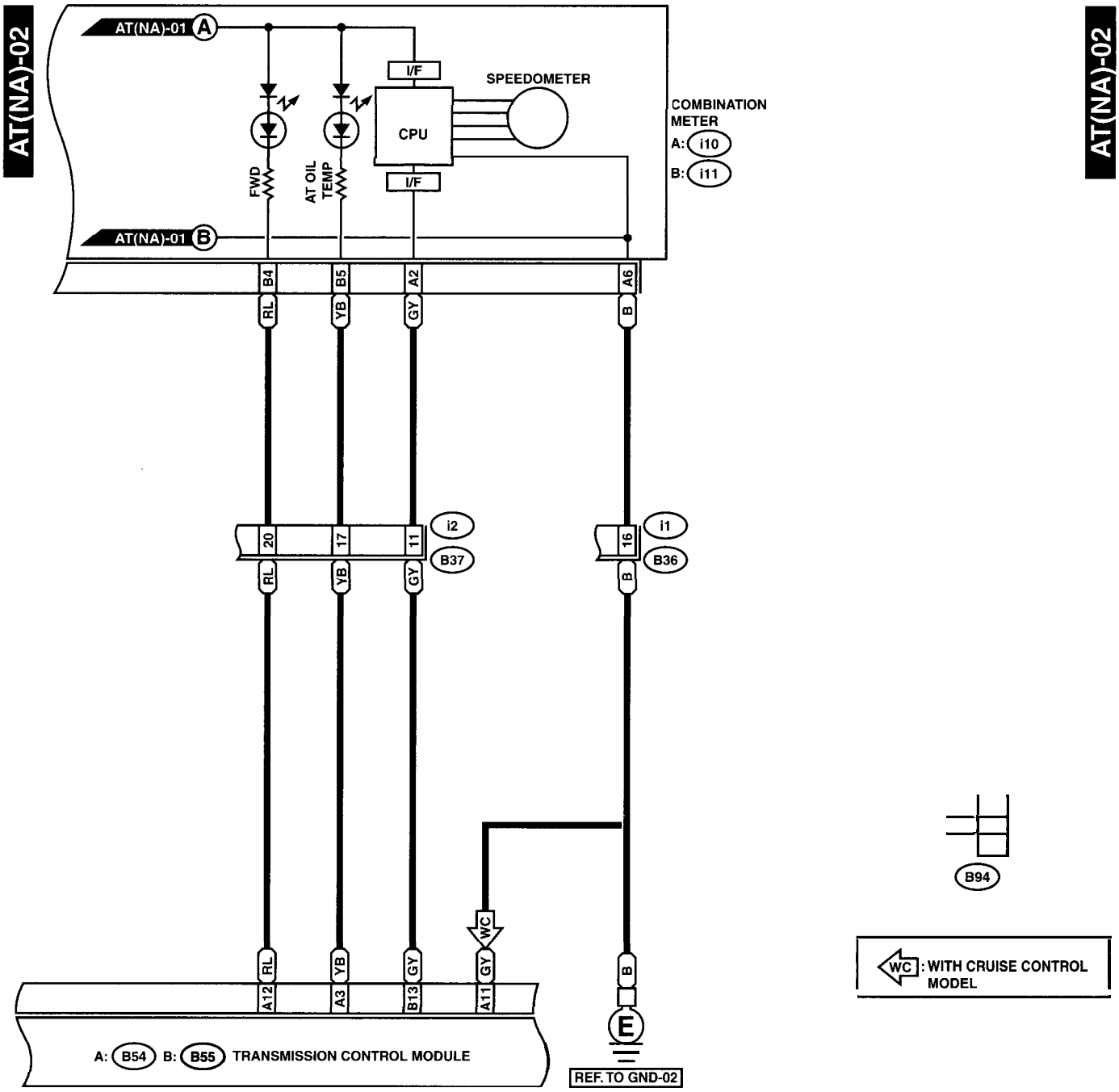
GU41-20E

2. NON-TURBO ENGINE MODEL

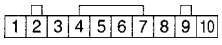




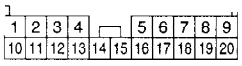
GU41-21A



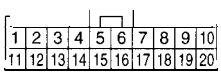
A: i10 (GREEN)



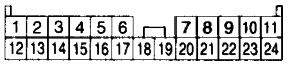
i1



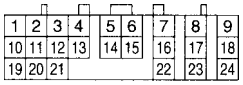
B94 (BLACK)



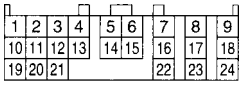
i2 (BROWN)



A: B54



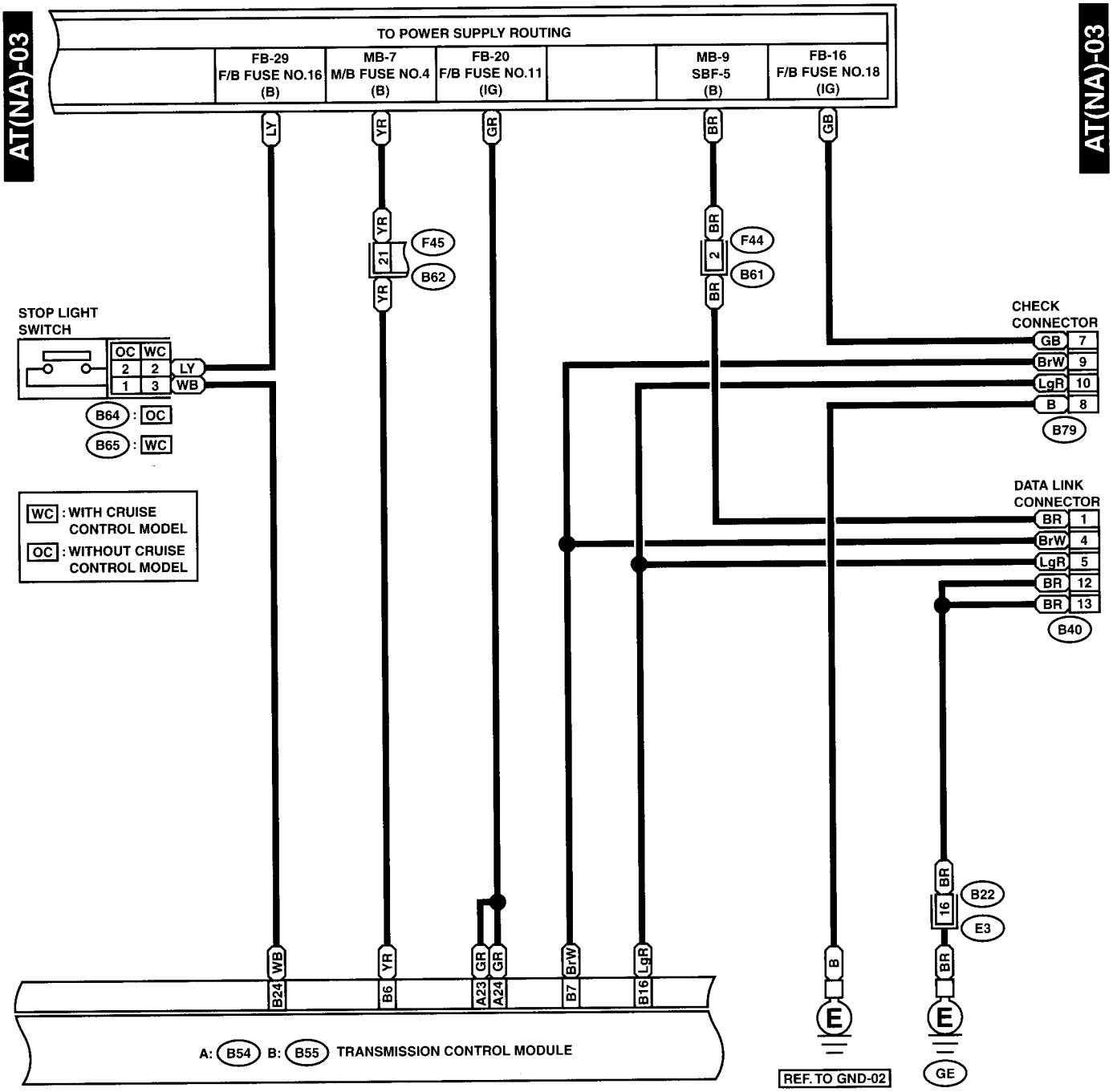
B: B55 (GRAY)

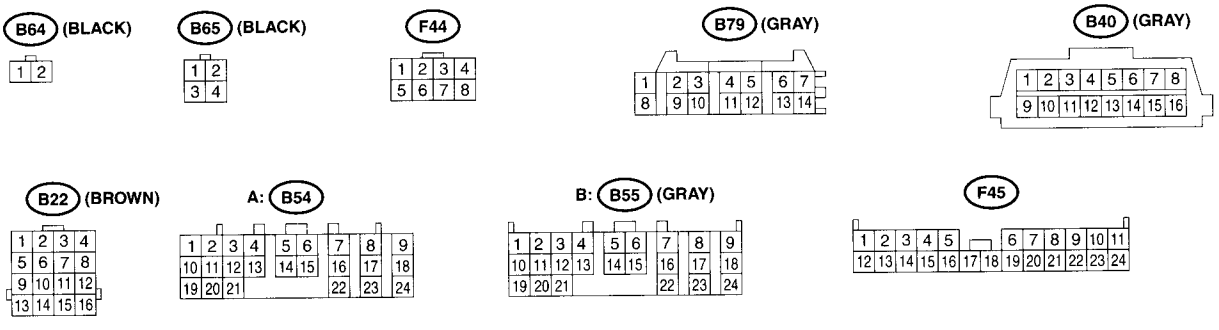


B: i11 (GREEN)

GU41-21B

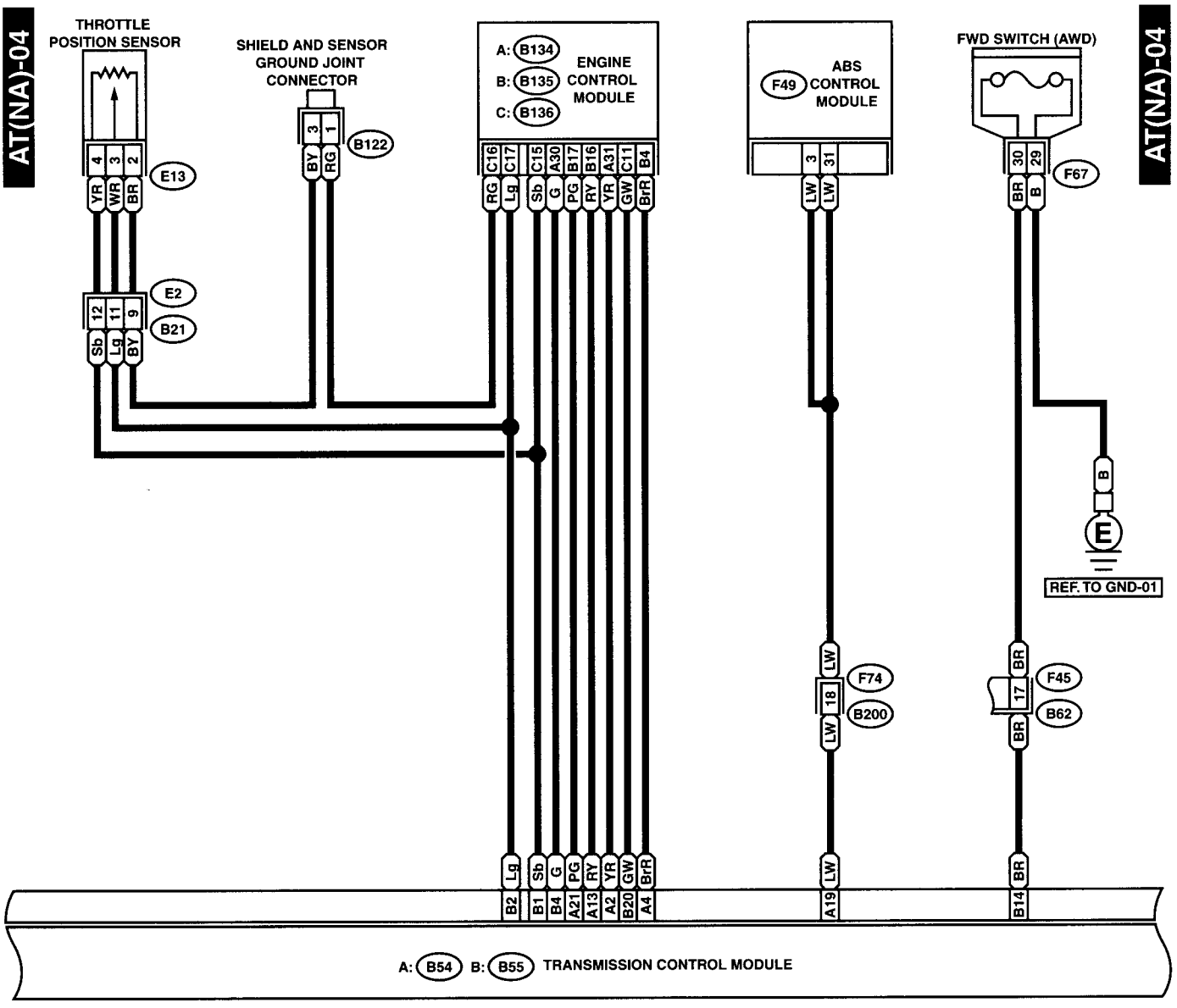
AT(NA)-03

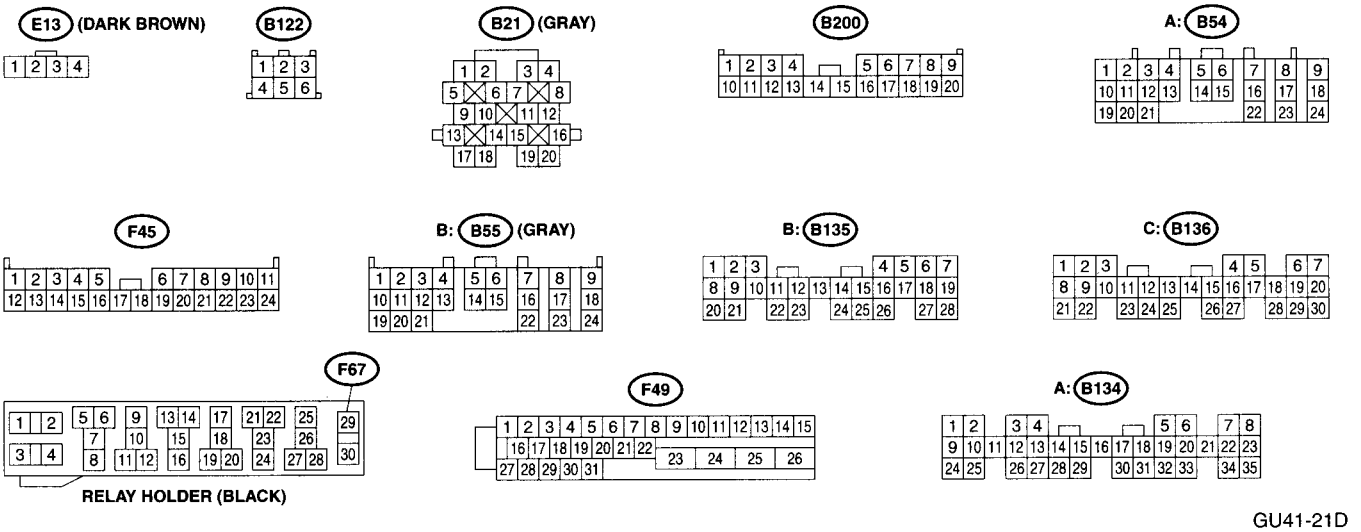




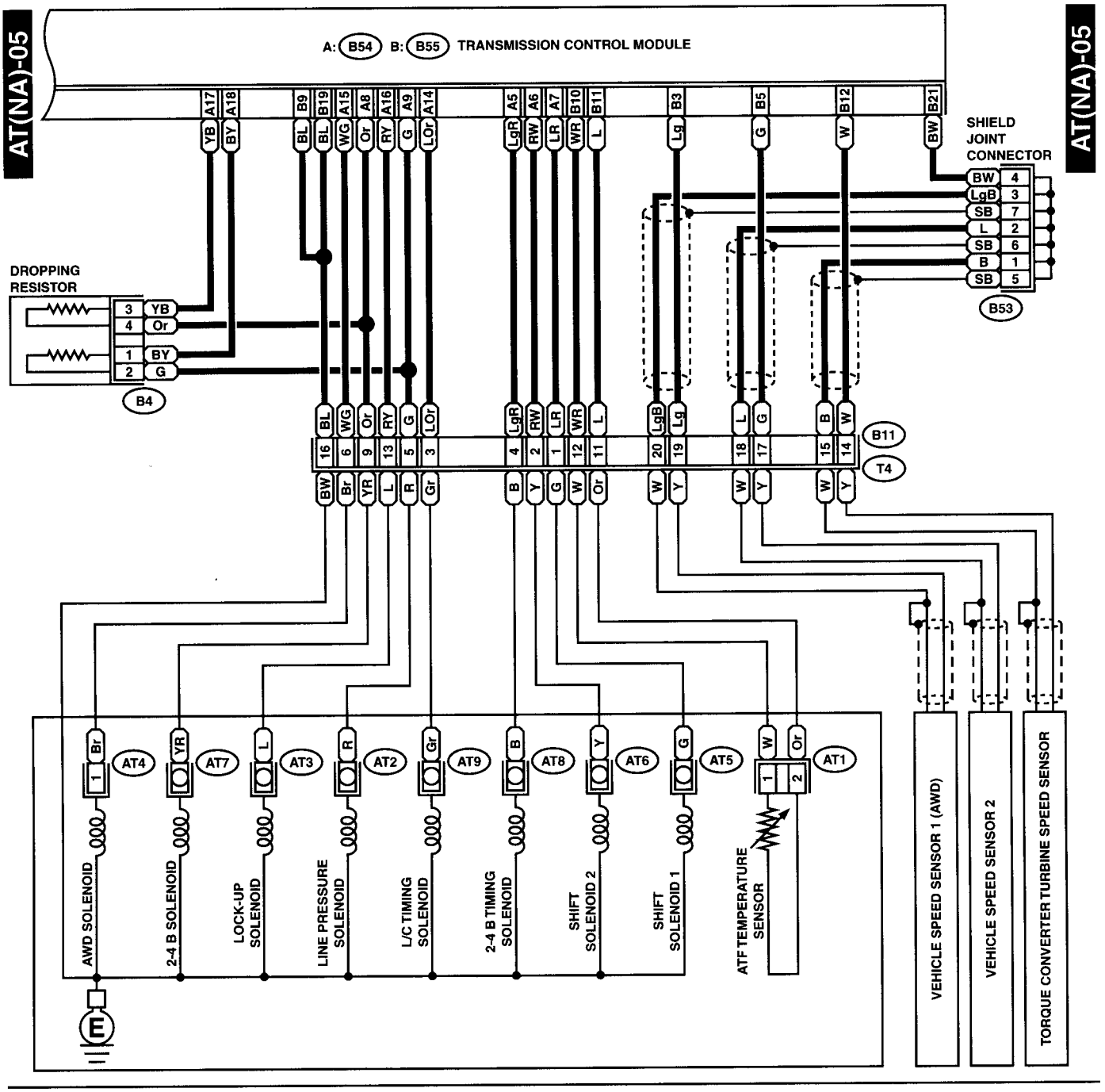
GU41-21C

AT(NA)-03


AT(NA)-04
THROTTLE POSITION SENSOR
SHIELD AND SENSOR GROUND JOINT CONNECTOR
A: B134
B: B135
C: B136
ENGINE CONTROL MODULE
F49
ABS CONTROL MODULE
FWD SWITCH (AWD)
AT(NA)-04
E13
B122
F67
E2
B21
REF. TO GND-01
F74
B200
F45
B62
A: B54 B: B55 TRANSMISSION CONTROL MODULE


E13 (DARK BROWN)
B122
B21 (GRAY)
B200
A: B54
F45
B: B55 (GRAY)
B: B135
C: B136
F67
RELAY HOLDER (BLACK)
F49
A: B134

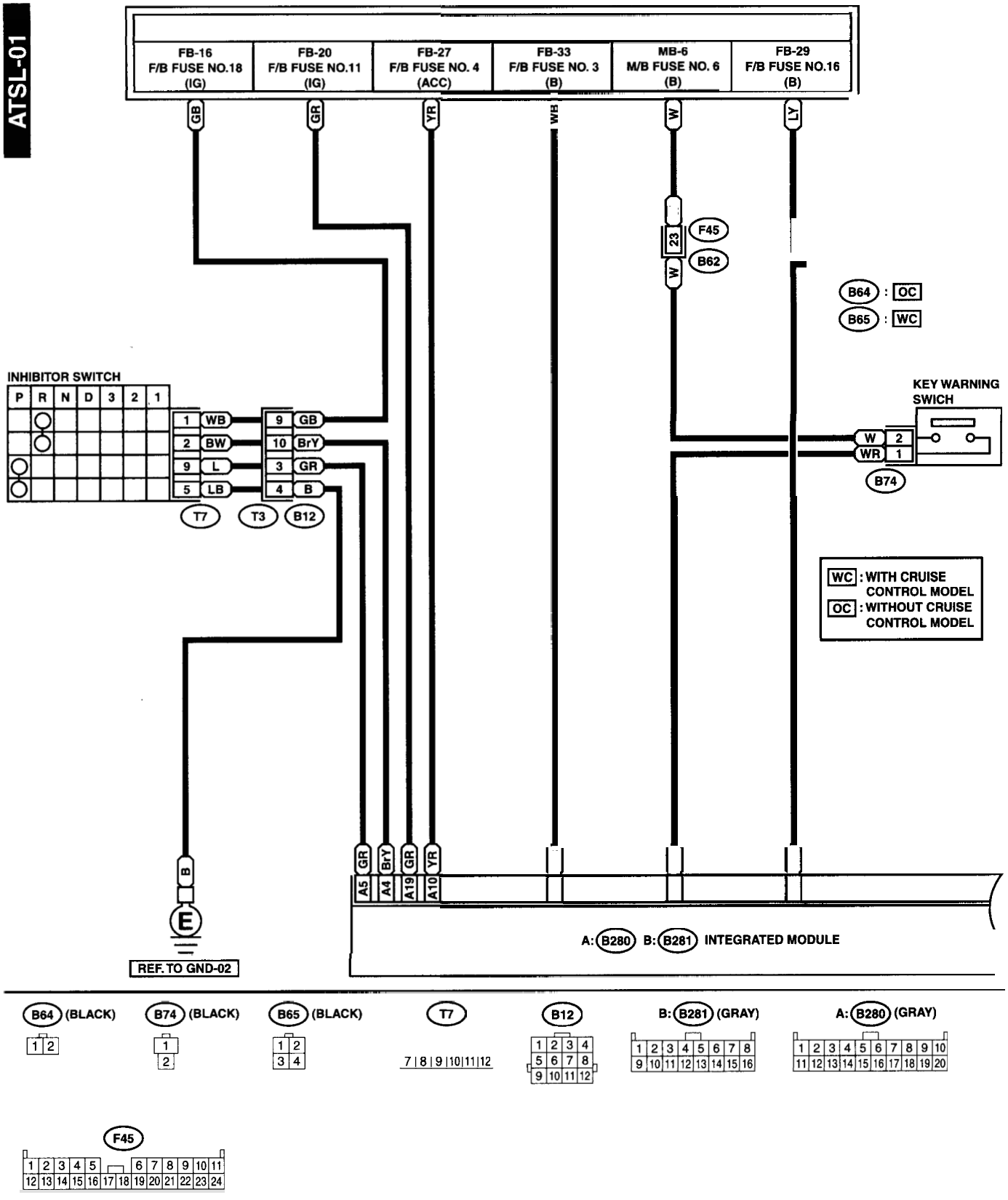
GU41-21D


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 AT1
AWD SOLENOID
2-4 B SOLENOID
LOCK-UP SOLENOID
LINE PRESSURE SOLENOID
L/C TIMING SOLENOID
2-4 B TIMING SOLENOID
SHIFT SOLENOID 2
SHIFT SOLENOID 1
ATF TEMPERATURE SENSOR
VEHICLE SPEED SENSOR 1 (AWD)
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
AT1 (GRAY)
AT4 (BROWN)
B4 (GRAY)
B53
B11 (BLACK)
A: B54
B: B55 (GRAY)

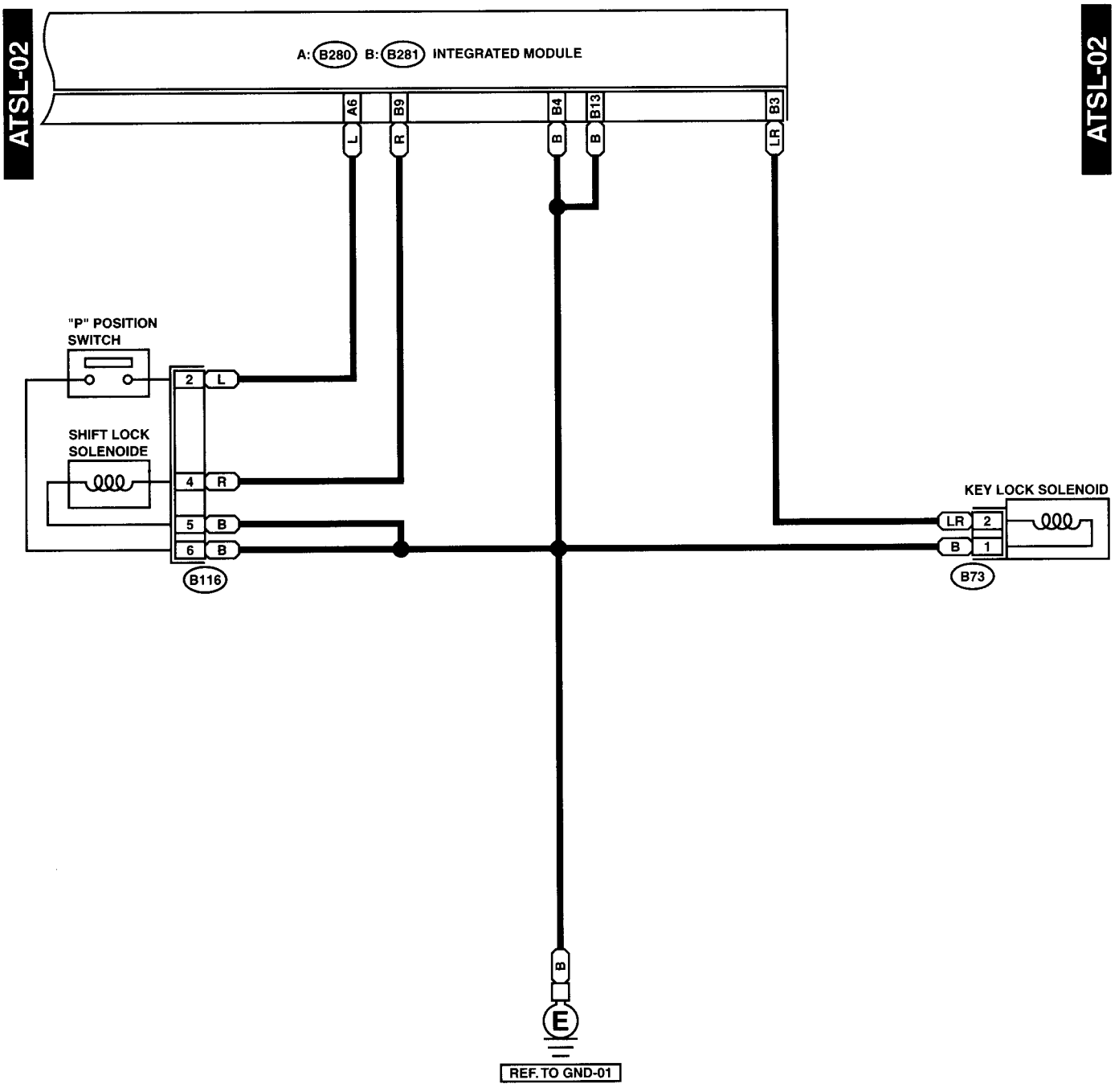
GU41-21E

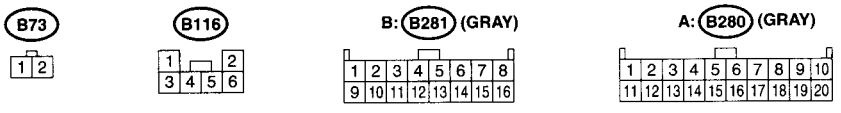
10.A/T Shift Lock Control System

A: SCHEMATIC



GU42-20A

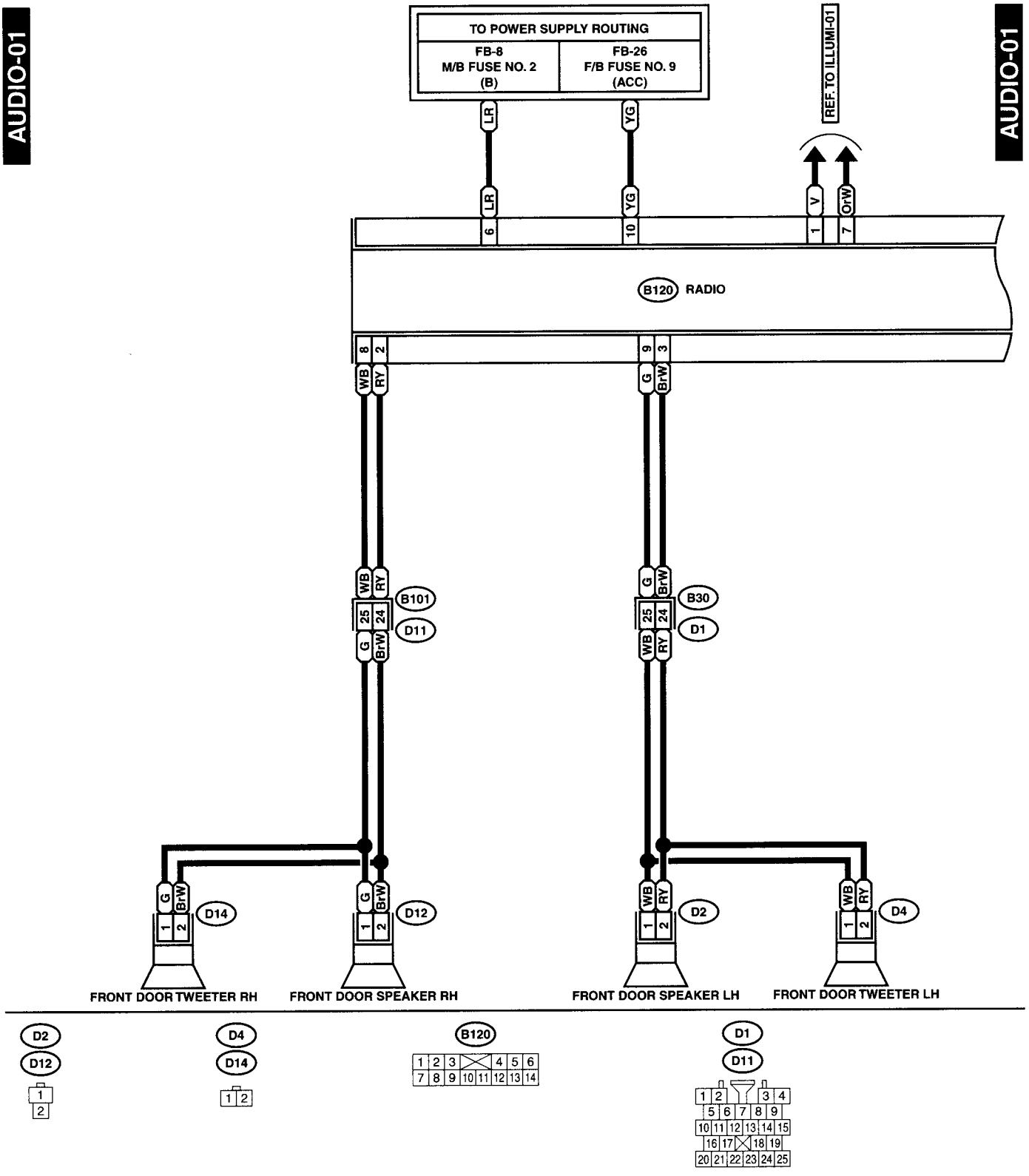

ATSL-02
ATSL-02
A: B280 B: B281 INTEGRATED MODULE
A6
B9
B4
B13
B3
L
R
B
B
LR
"P" POSITION SWITCH
2 L
SHIFT LOCK SOLENOIDE
4 R
5 B
6 B
B116
KEY LOCK SOLENOID
LR 2
B 1
B73
B
E
REF. TO GND-01


B73
1 2
B116
1 2
3 4 5 6
B: B281 (GRAY)
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

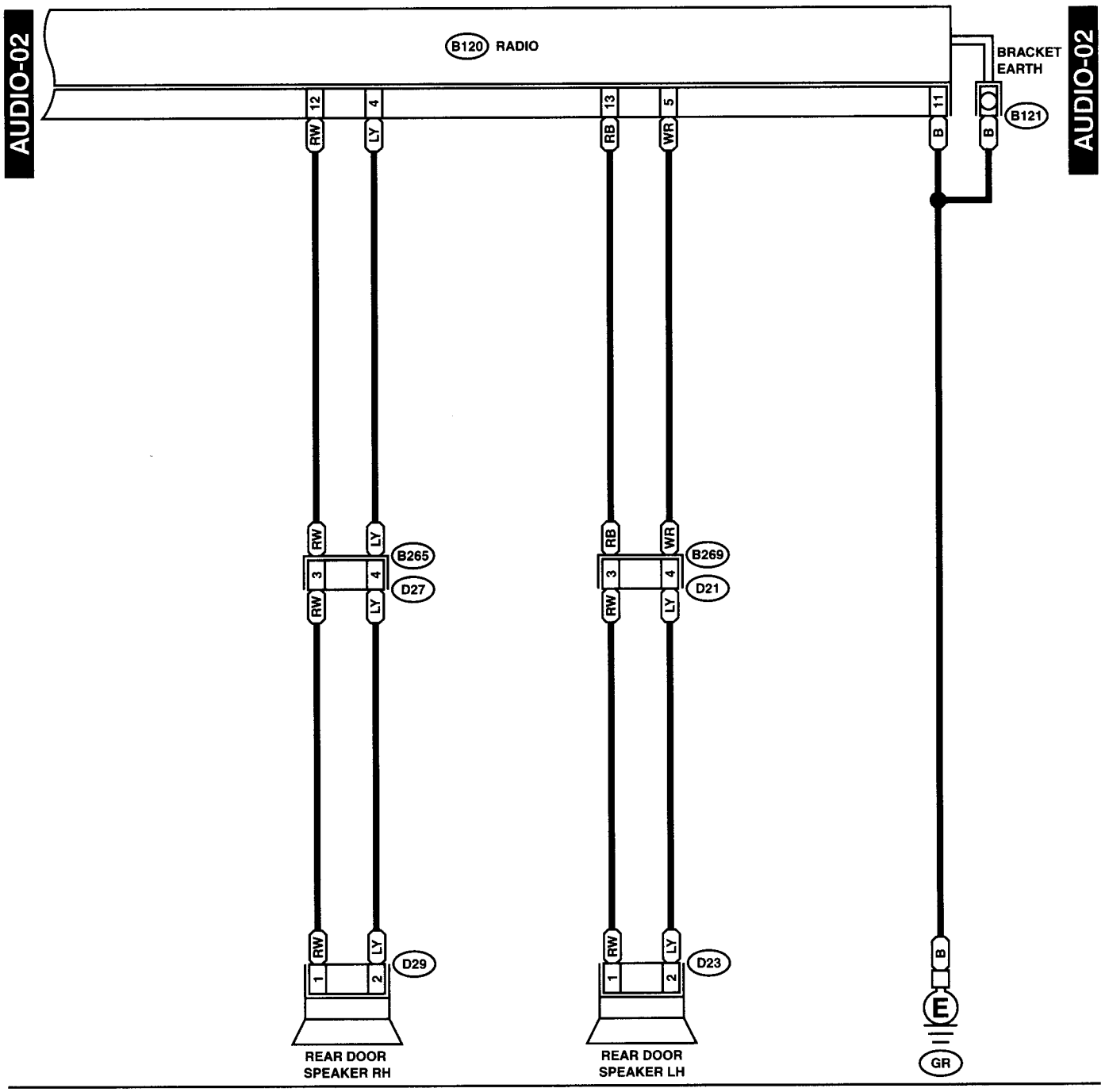
GU42-20B

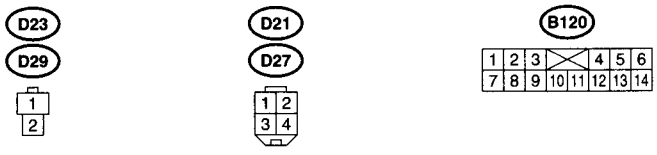
11.Audio System

A: SCHEMATIC



GU76-20A

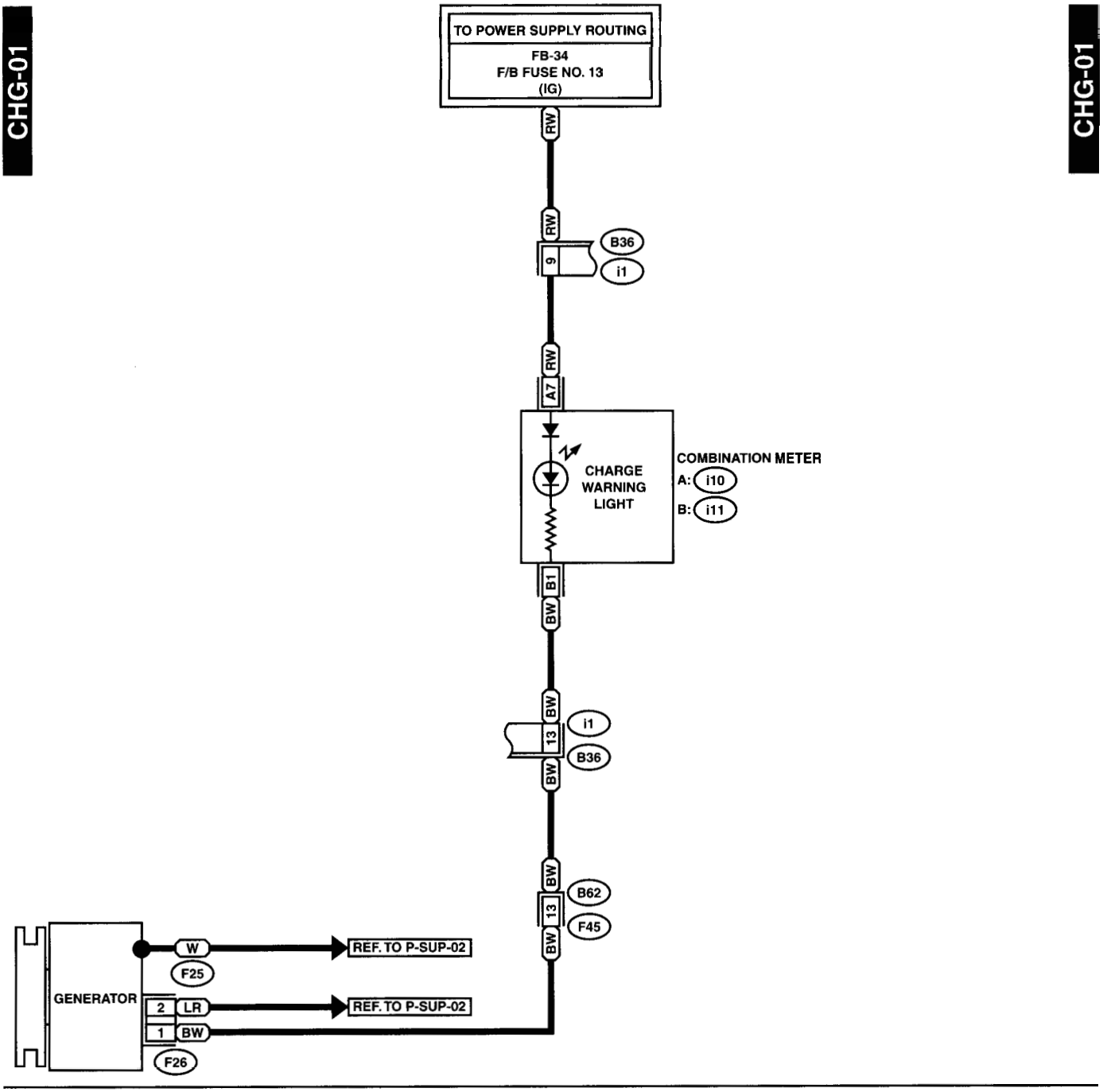

AUDIO-02
AUDIO-02
B120 RADIO
BRACKET EARTH
B121
12
4
13
5
11
RW
LY
RB
WR
B
B
B265
D27
B269
D21
3
4
1
2
D29
D23
REAR DOOR SPEAKER RH
REAR DOOR SPEAKER LH
E
GR

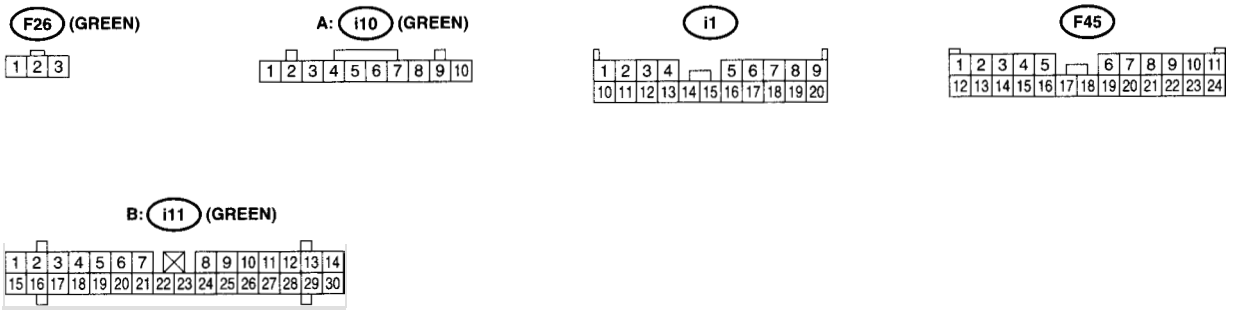

D23
D29
1
2
D21
D27
1 2
3 4
B120
1 2 3 4 5 6
7 8 9 10 11 12 13 14

GU76-20B

12.Charging System

A: SCHEMATIC

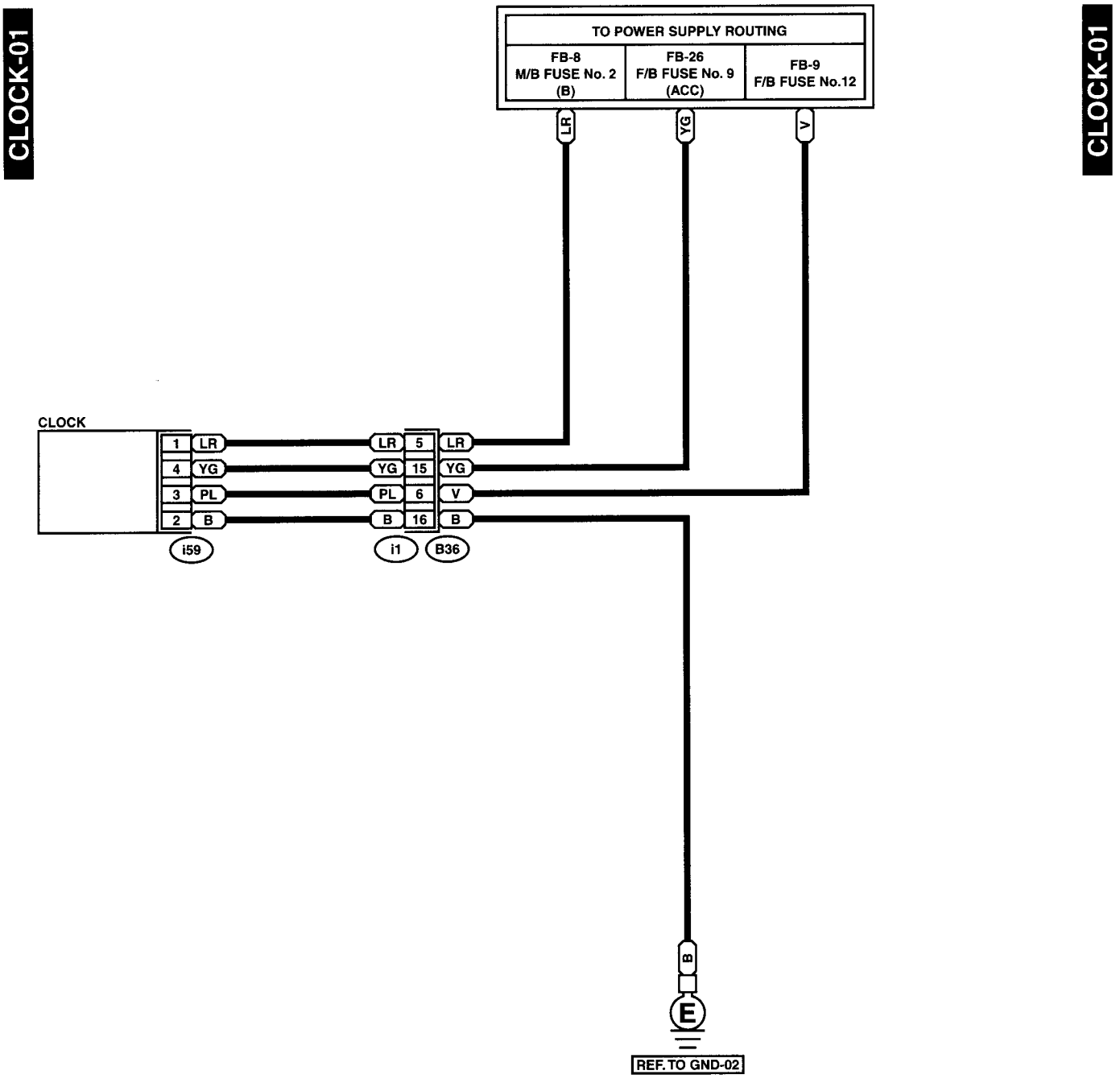


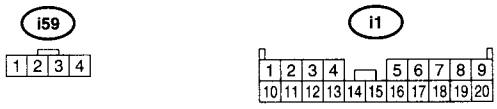


GU02-20

13.Clock System

A: SCHEMATIC





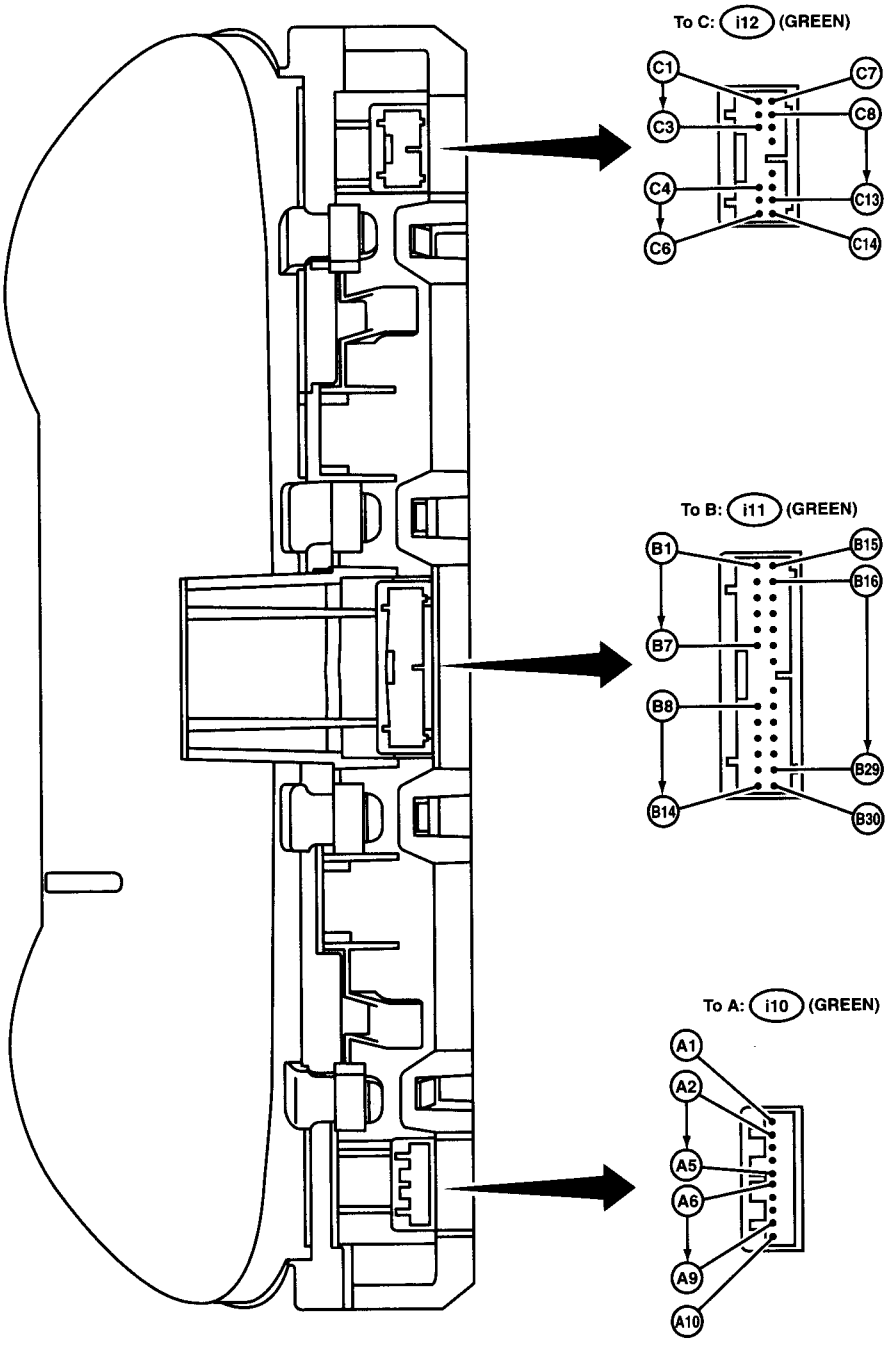
GU69-20

14.Combination Meter

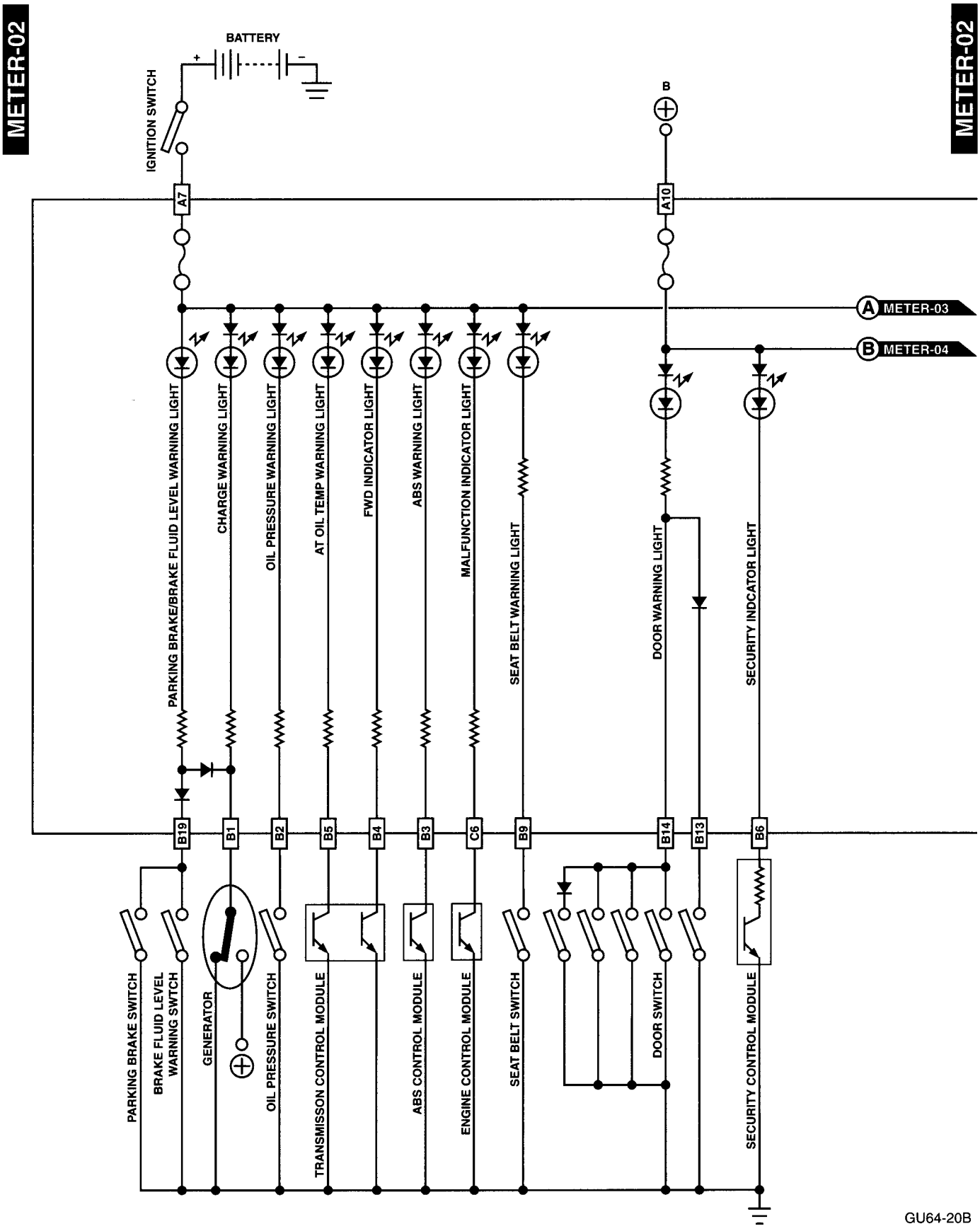
A: SCHEMATIC

METER-01

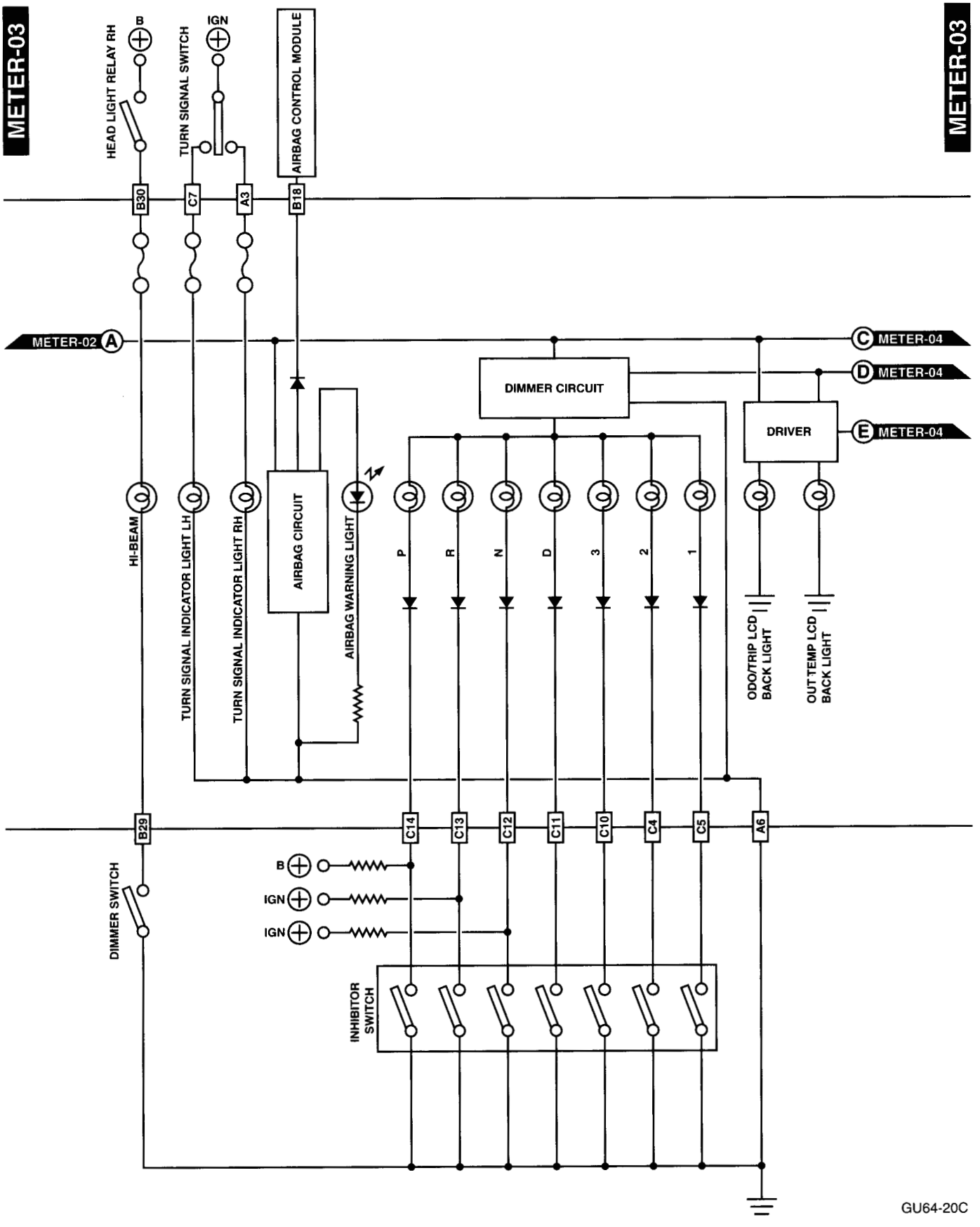
METER-01

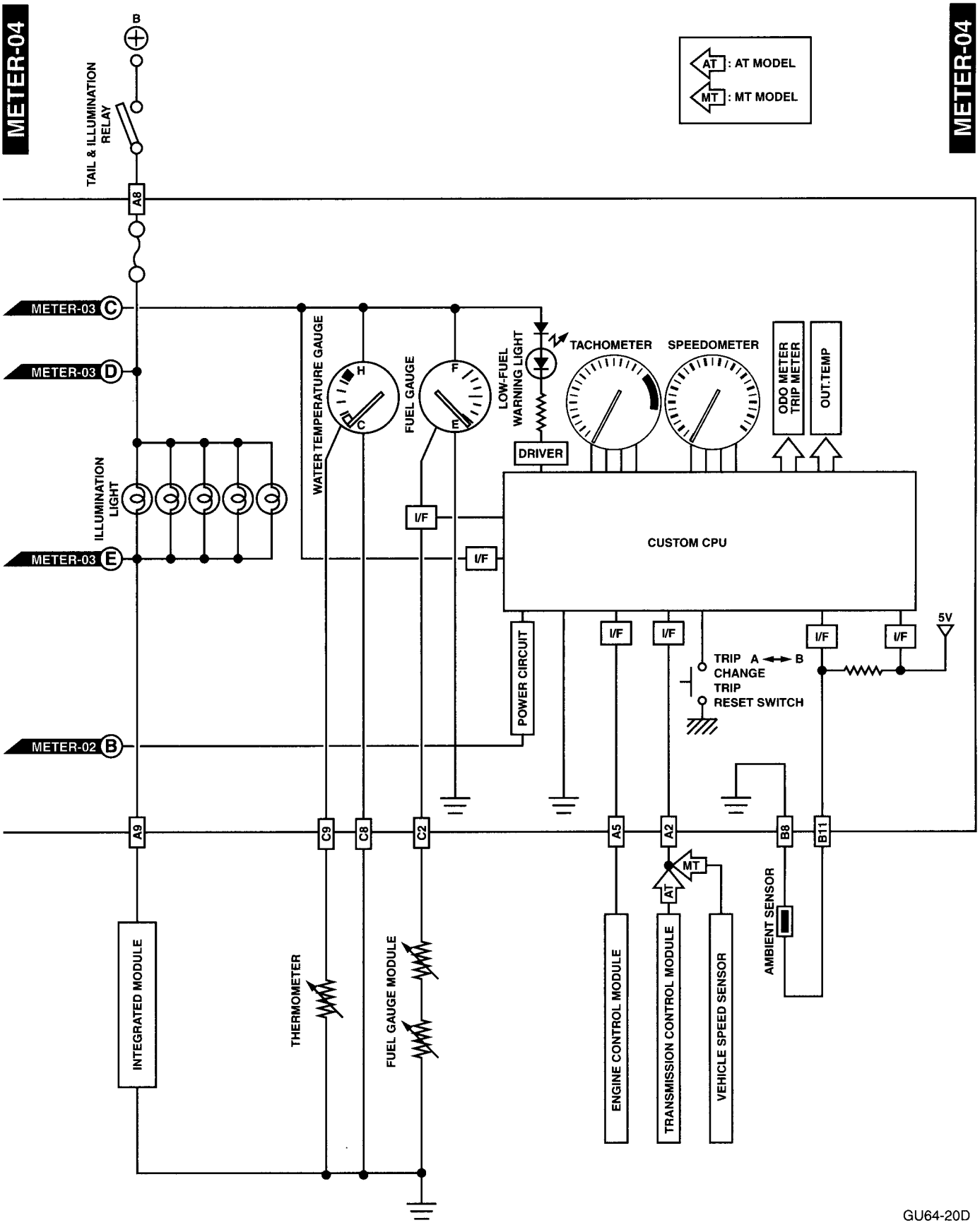


GU64-20A


METER-02
METER-02
BATTERY
IGNITION SWITCH
B
A7
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
TRANSMISSON CONTROL MODULE
ABS CONTROL MODULE
ENGINE CONTROL MODULE
SEAT BELT SWITCH
DOOR SWITCH
SECURITY CONTROL MODULE
GU64-20B

COMBINATION METER

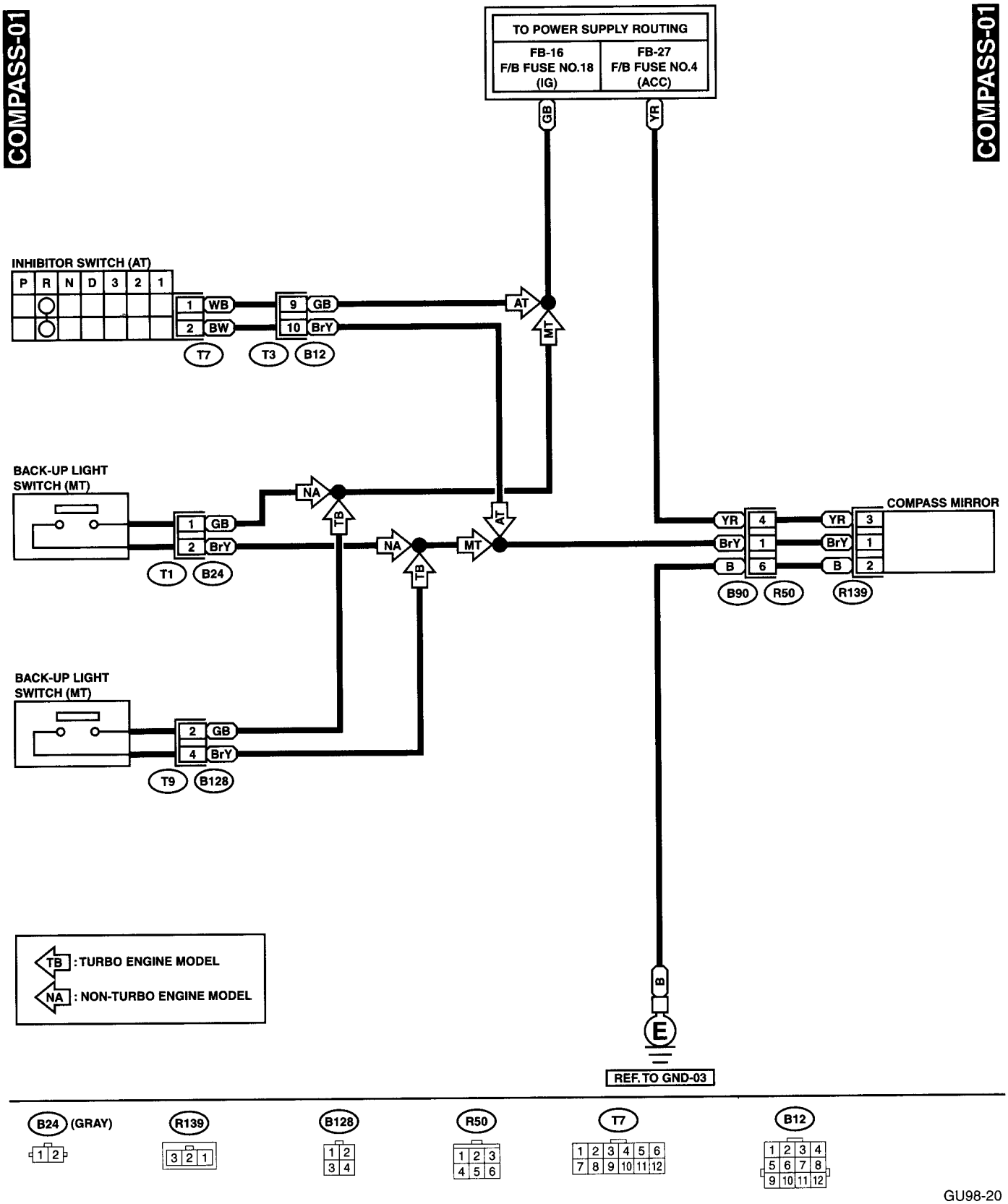



METER-04
METER-04
AT : AT MODEL
MT : MT MODEL
B
TAIL & ILLUMINATION RELAY
A8
METER-03 C
METER-03 D
METER-03 E
METER-02 B
ILLUMINATION LIGHT
WATER TEMPERATURE GAUGE
H
C
FUEL GAUGE
F
E
LOW-FUEL WARNING LIGHT
DRIVER
TACHOMETER
SPEEDOMETER
ODO METER TRIP METER
OUT.TEMP
I/F
I/F
CUSTOM CPU
POWER CIRCUIT
I/F
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

GU64-20D

15.Compass Mirror System

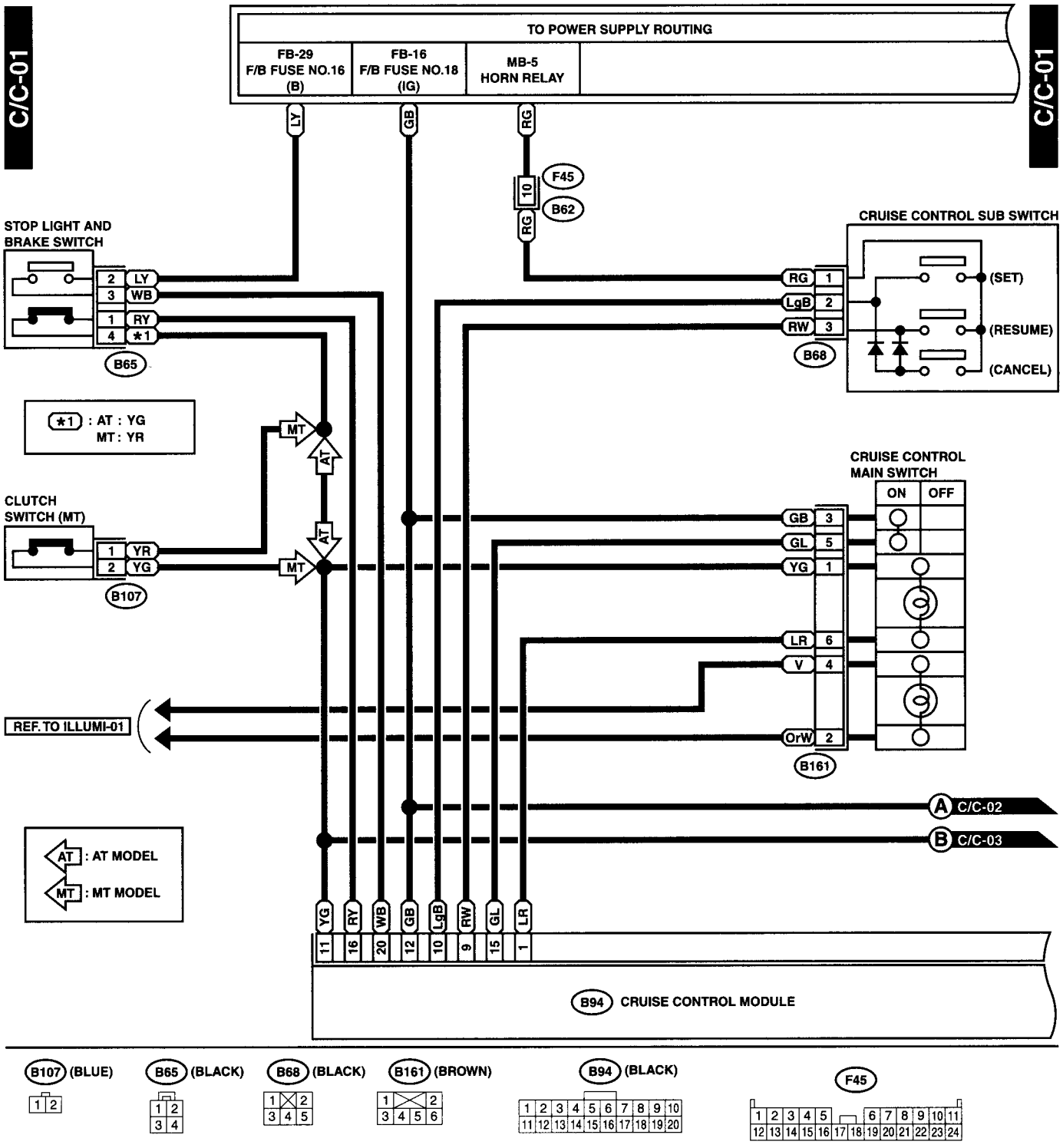
A: SCHEMATIC



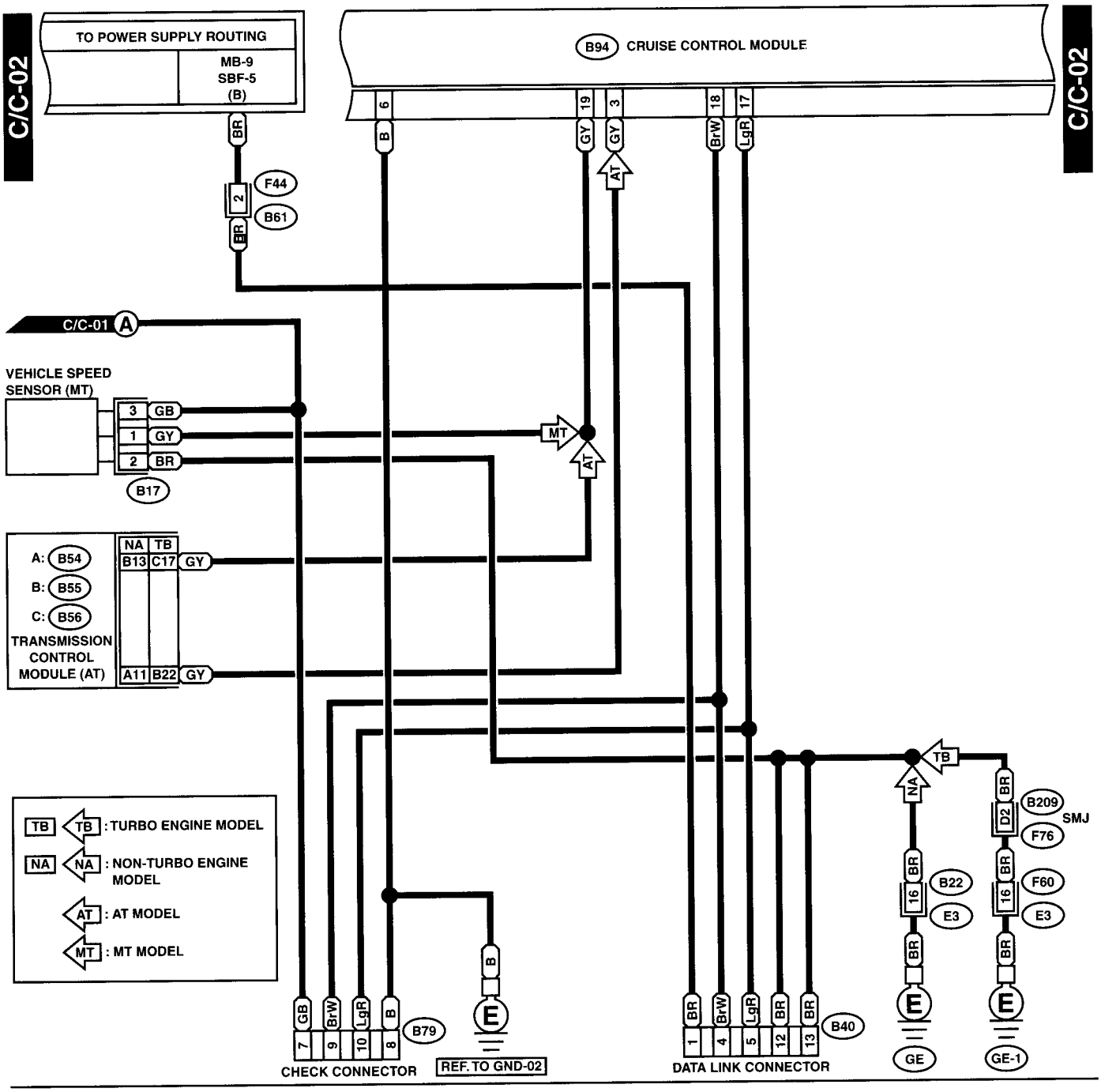
GU98-20

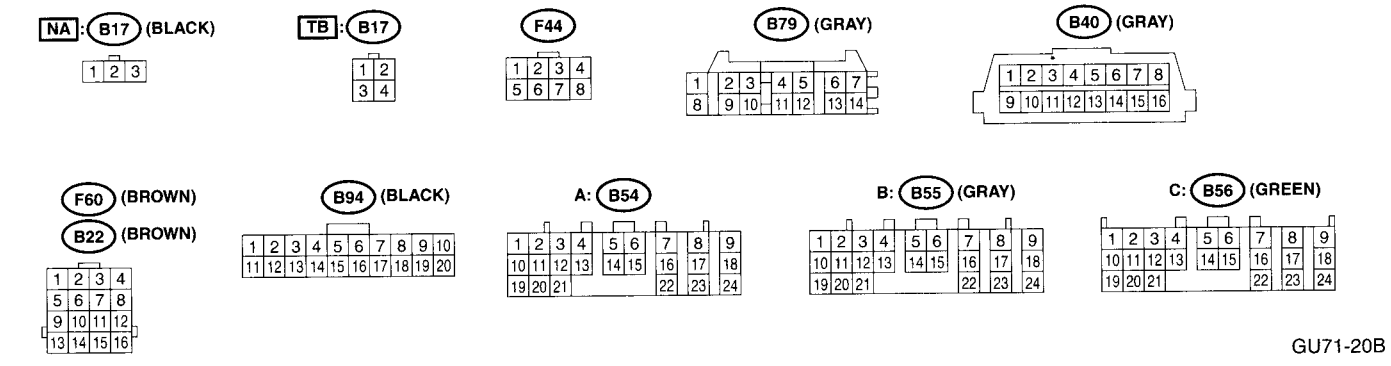
16.Cruise Control System

A: SCHEMATIC

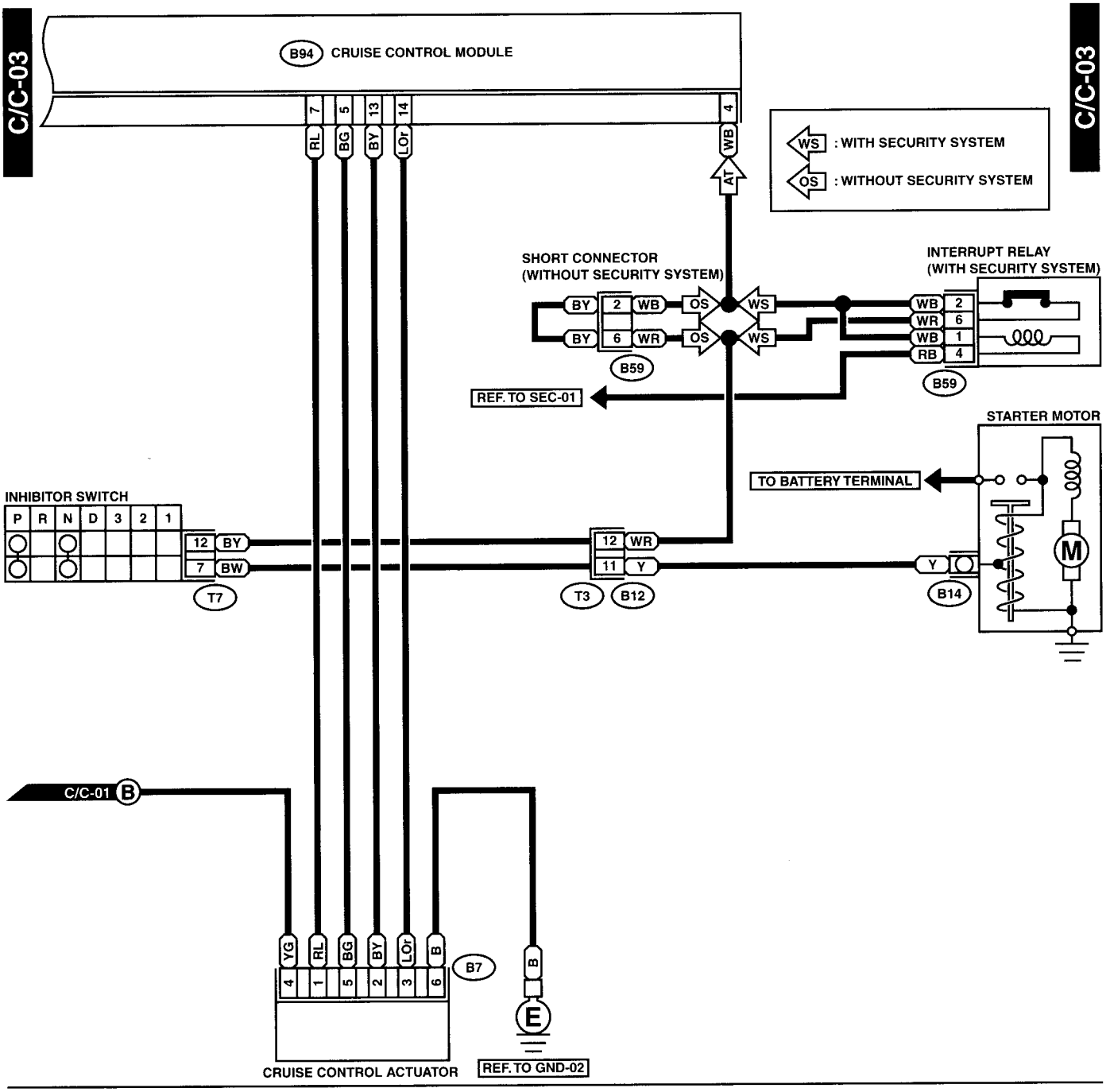


GU98-20


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-02
B40
DATA LINK CONNECTOR
B209
SMJ
F76
F60
B22
E3
GE
GE-1


NA : B17 (BLACK)
TB : B17
F44
B79 (GRAY)
B40 (GRAY)
F60 (BROWN)
B22 (BROWN)
B94 (BLACK)
A: B54
B: B55 (GRAY)
C: B56 (GREEN)

GU71-20B



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	

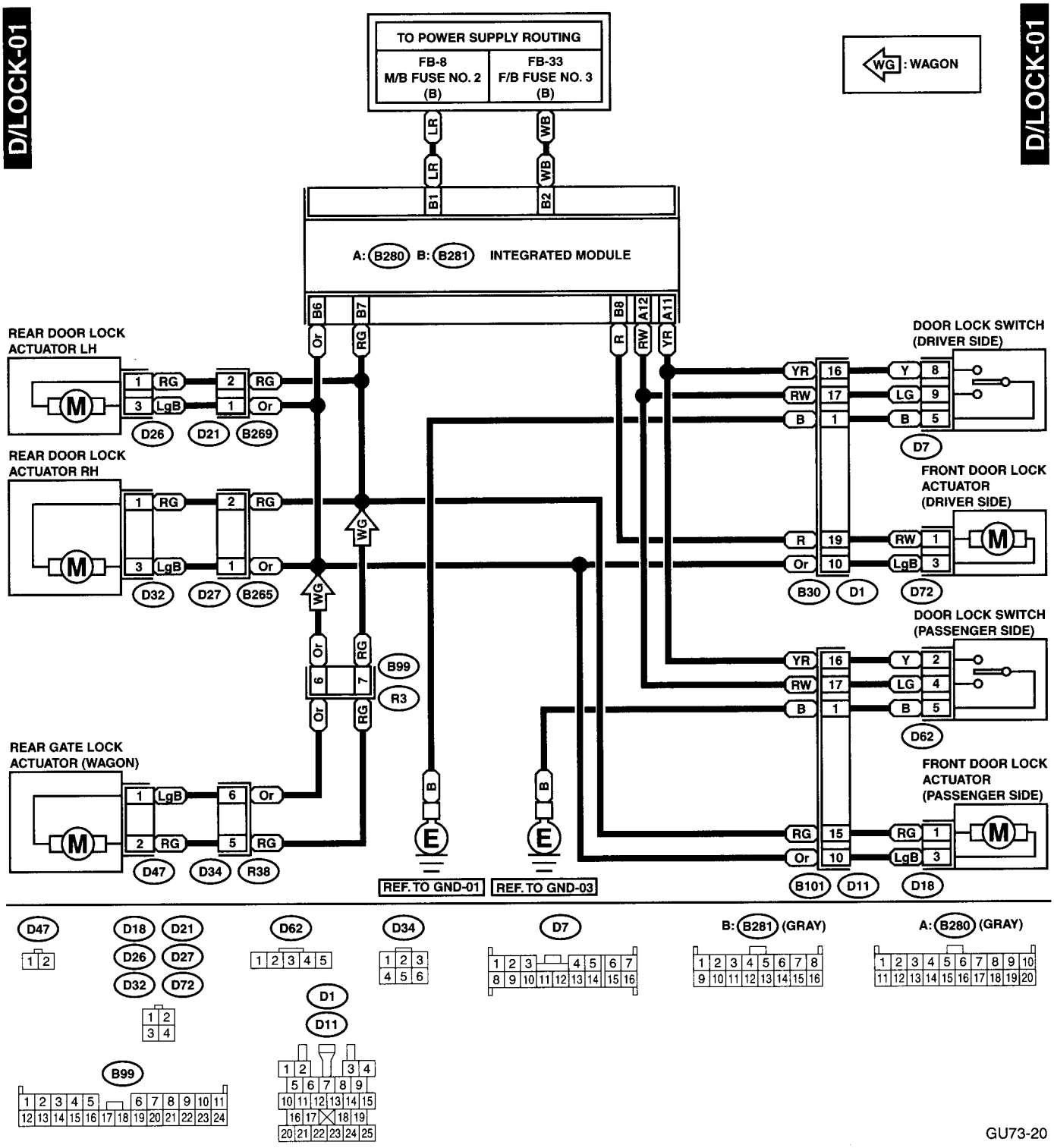
B94 (BLACK)

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

GU71-20C

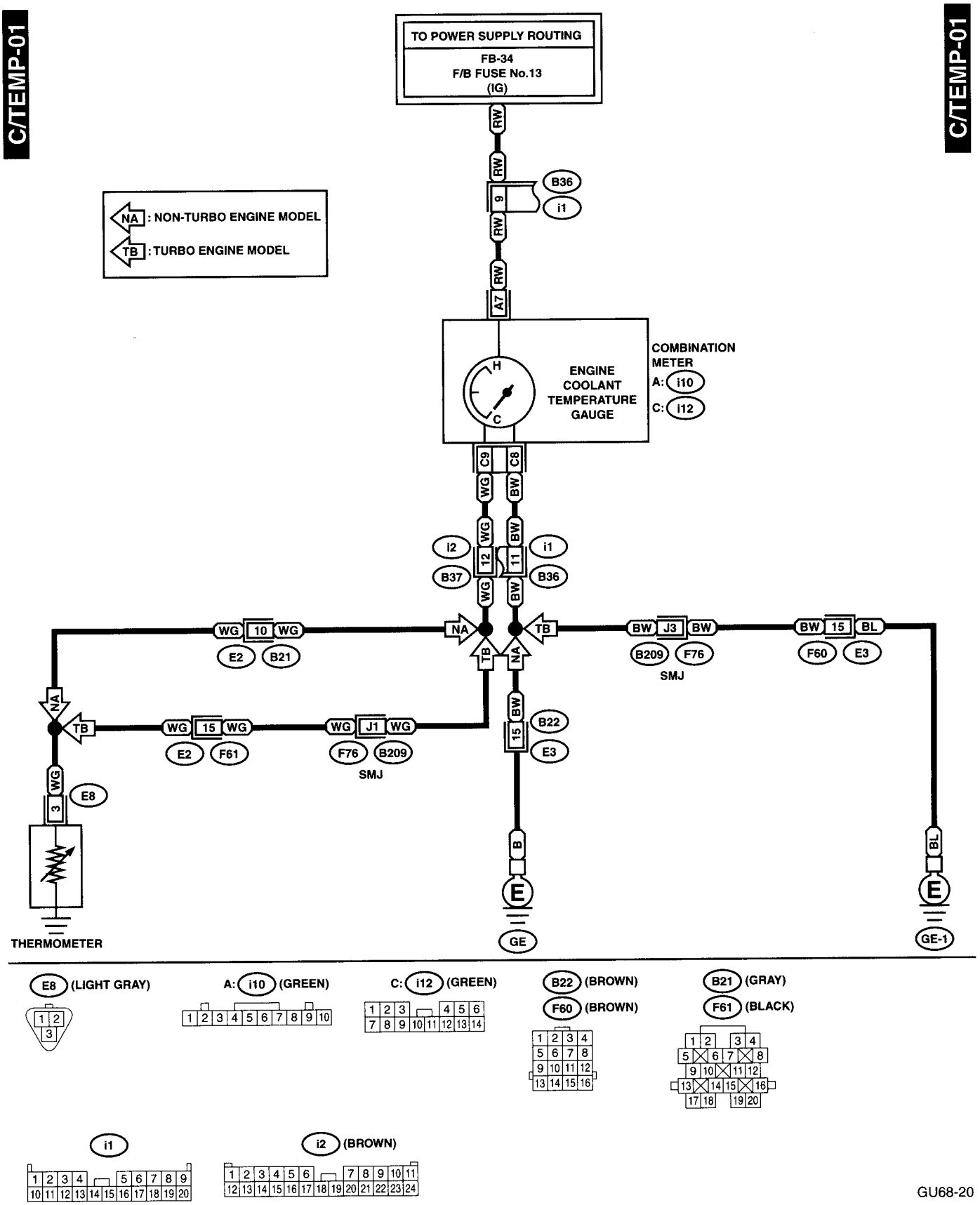
17.Door Lock System

A: SCHEMATIC



18.Engine Coolant Temperature Gauge System

A: SCHEMATIC

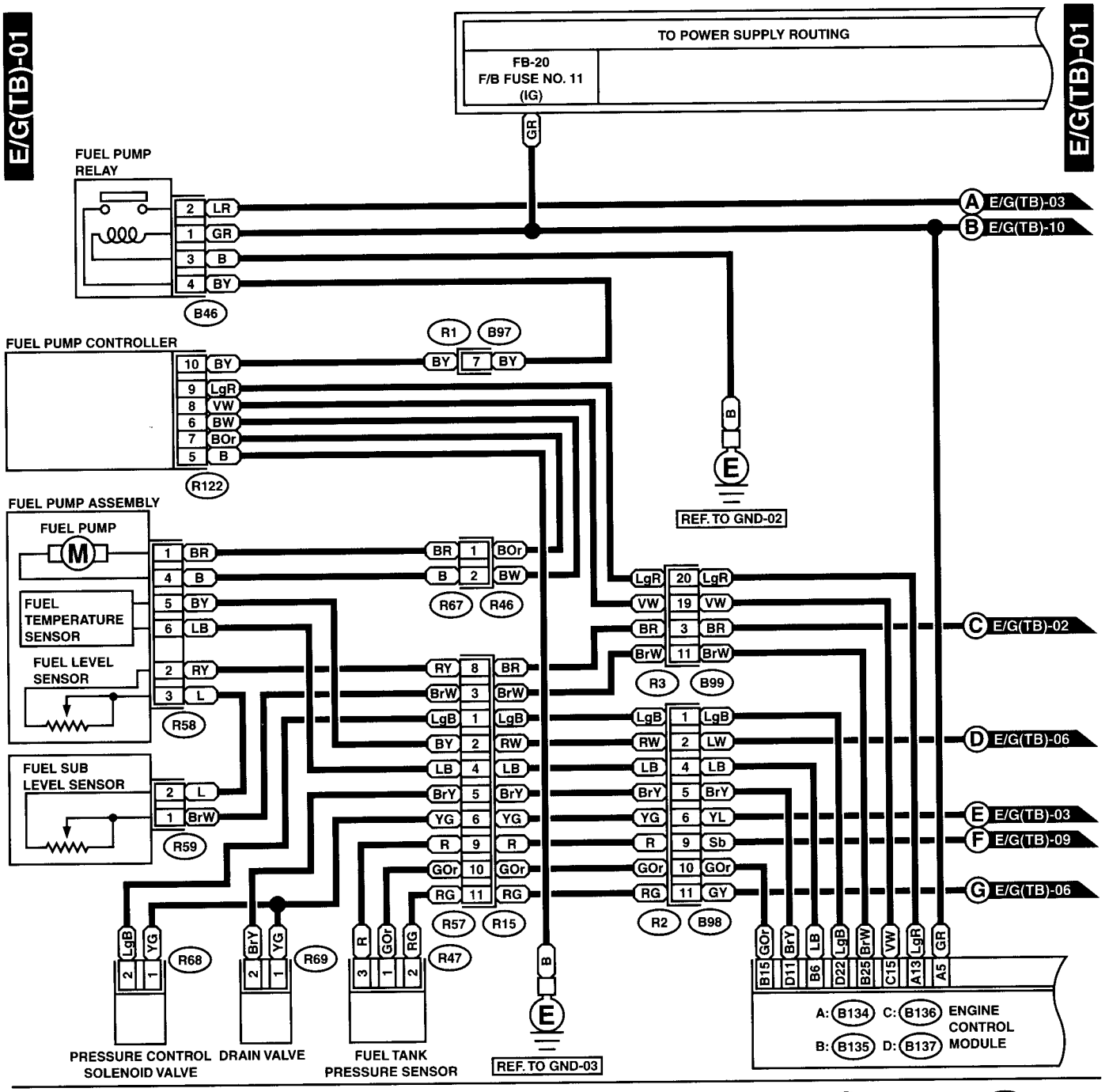


GU68-20

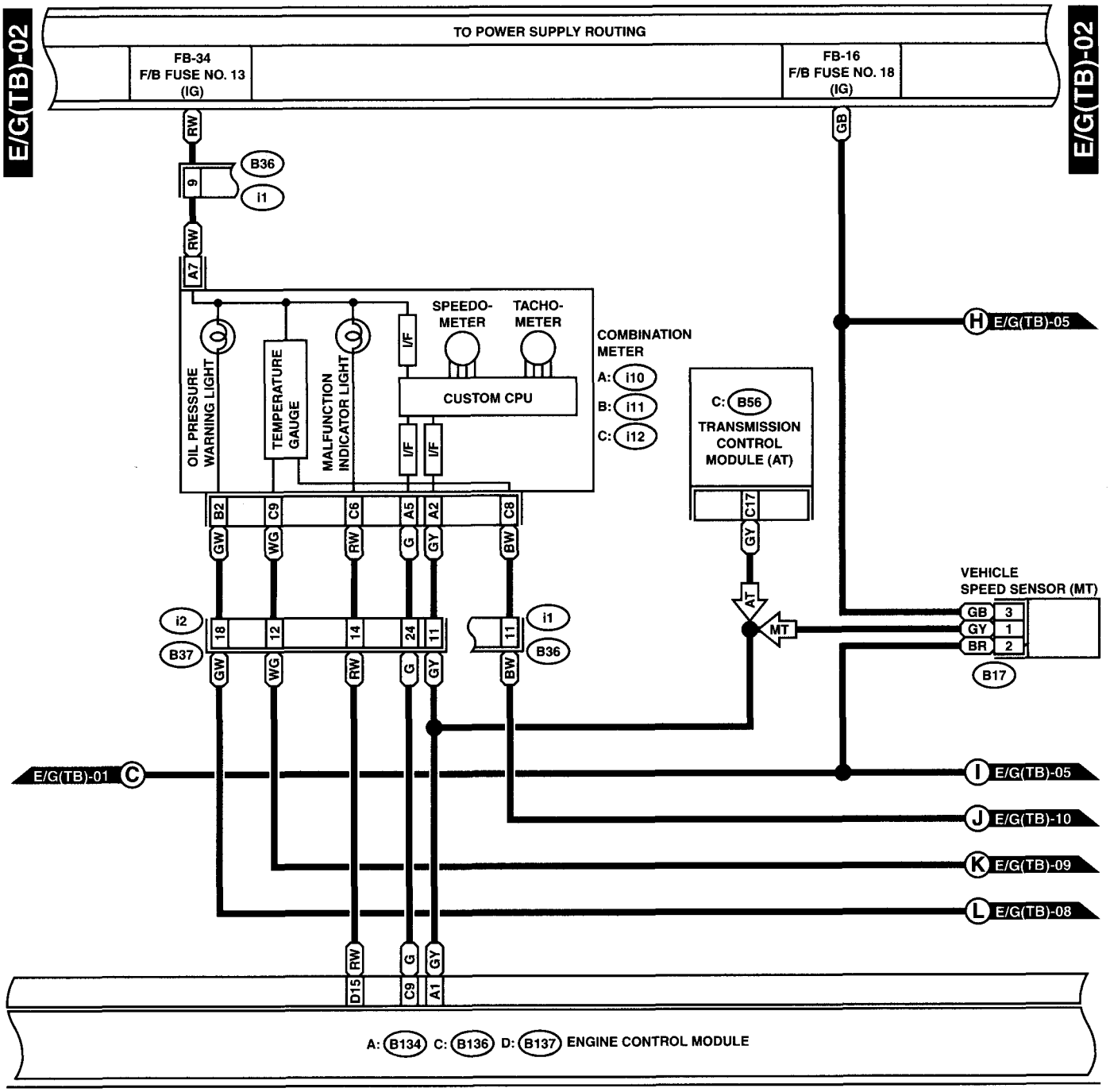
19.Engine Electrical System

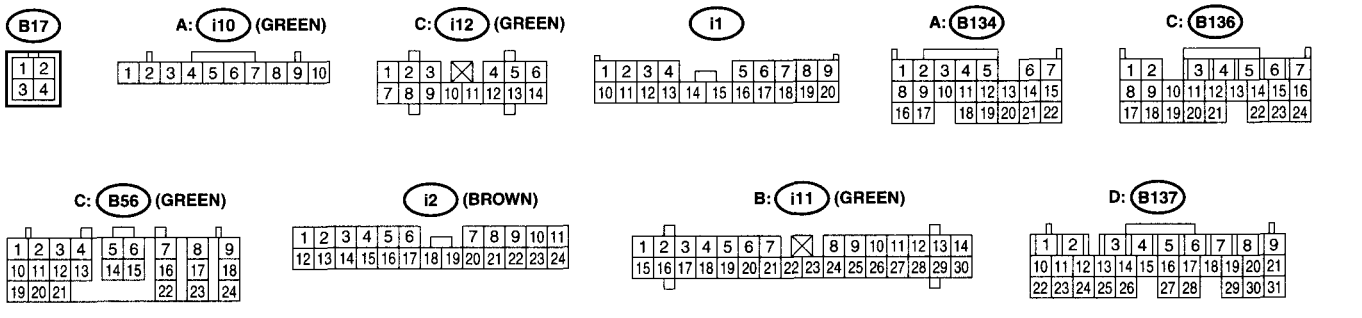
A: SCHEMATIC

1. TURBO ENGINE MODEL

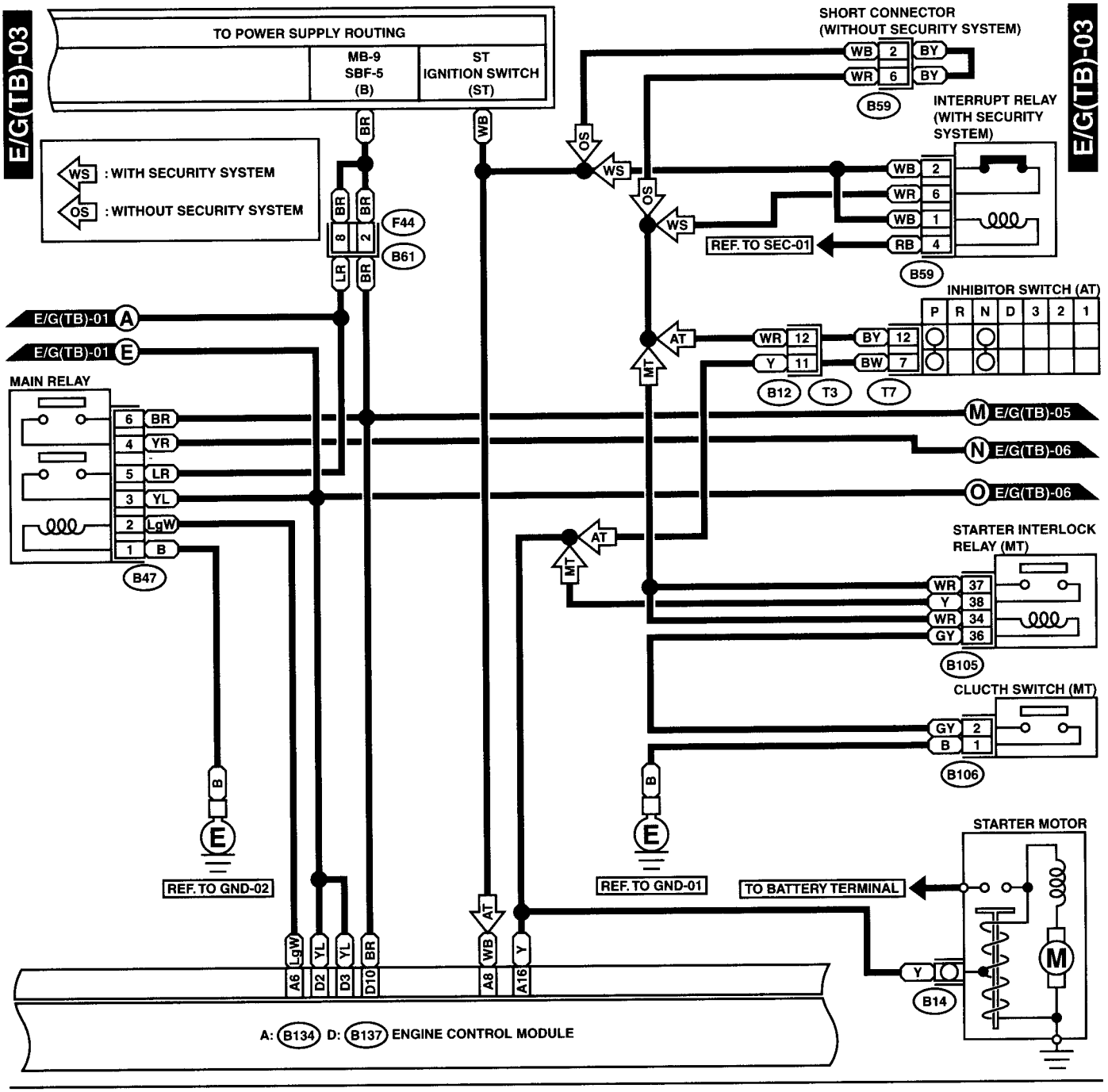


GU10-22A


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
B36
9
i1
RW
A7
SPEEDO-METER
TACHO-METER
COMBINATION METER
A: i10
B: i11
C: i12
OIL PRESSURE WARNING LIGHT
TEMPERATURE GAUGE
MALFUNCTION INDICATOR LIGHT
I/F
CUSTOM CPU
C: B56
TRANSMISSION CONTROL MODULE (AT)
C17
GY
GB
H E/G(TB)-05
B2
C9
C6
A5
A2
C8
GW
WG
RW
G
GY
BW
AT
MT
VEHICLE SPEED SENSOR (MT)
GB 3
GY 1
BR 2
B17
i2
B37
18
12
14
24
11
11
i1
B36
GW
WG
RW
G
GY
BW
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: B136
C: B56 (GREEN)
i2 (BROWN)
B: i11 (GREEN)
D: B137

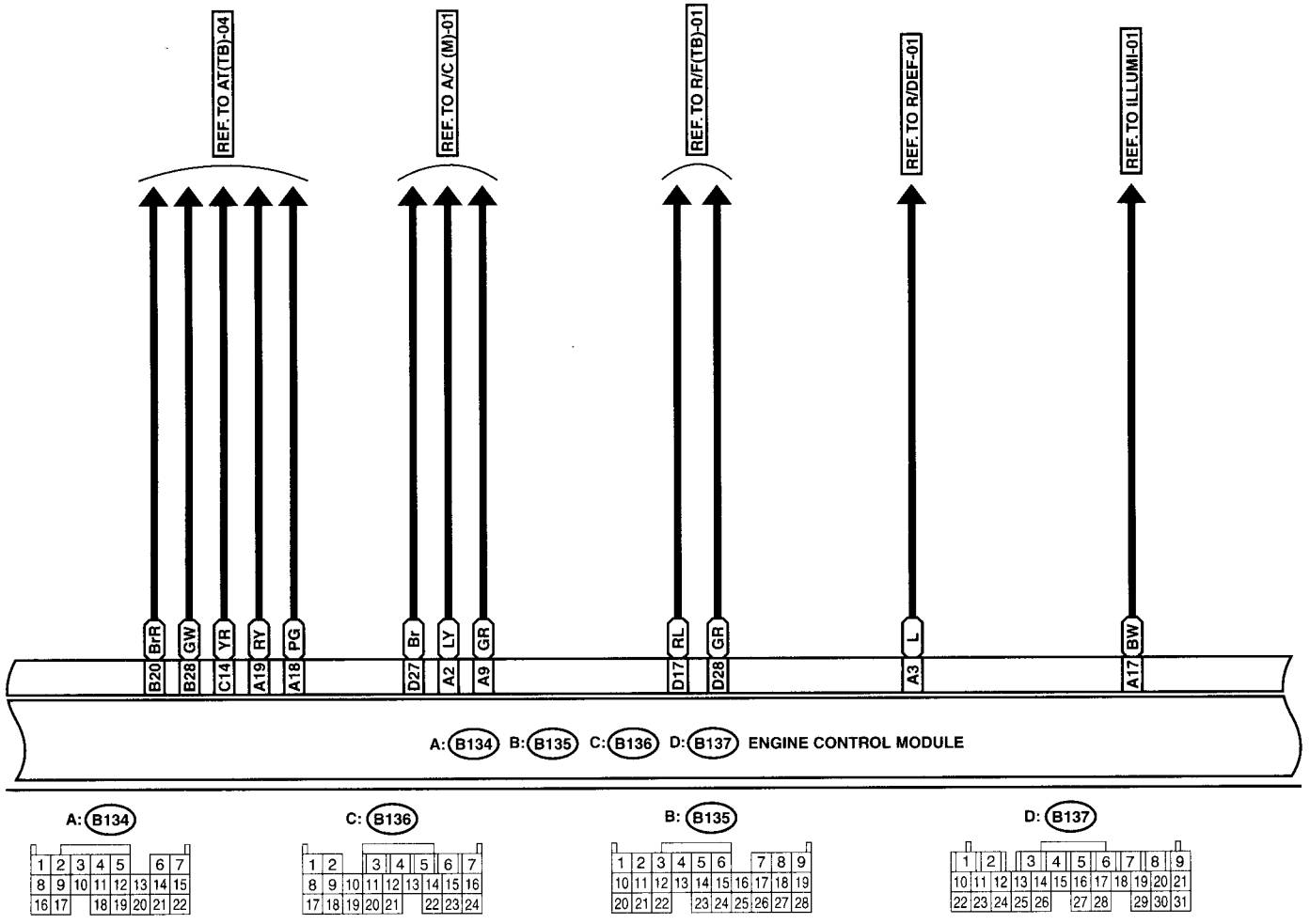
GU10-22B


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
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
STARTER INTERLOCK
RELAY (MT)
CLUCTH SWITCH (MT)
STARTER MOTOR
E/G(TB)-05
E/G(TB)-06
E/G(TB)-06
REF. TO GND-02
REF. TO GND-01
TO BATTERY TERMINAL
A: B134 D: B137 ENGINE CONTROL MODULE
B106
B47 (BROWN)
B59
F44
T7
B12
A: B134
D: B137
B105
RELAY BLOCK (BLACK)

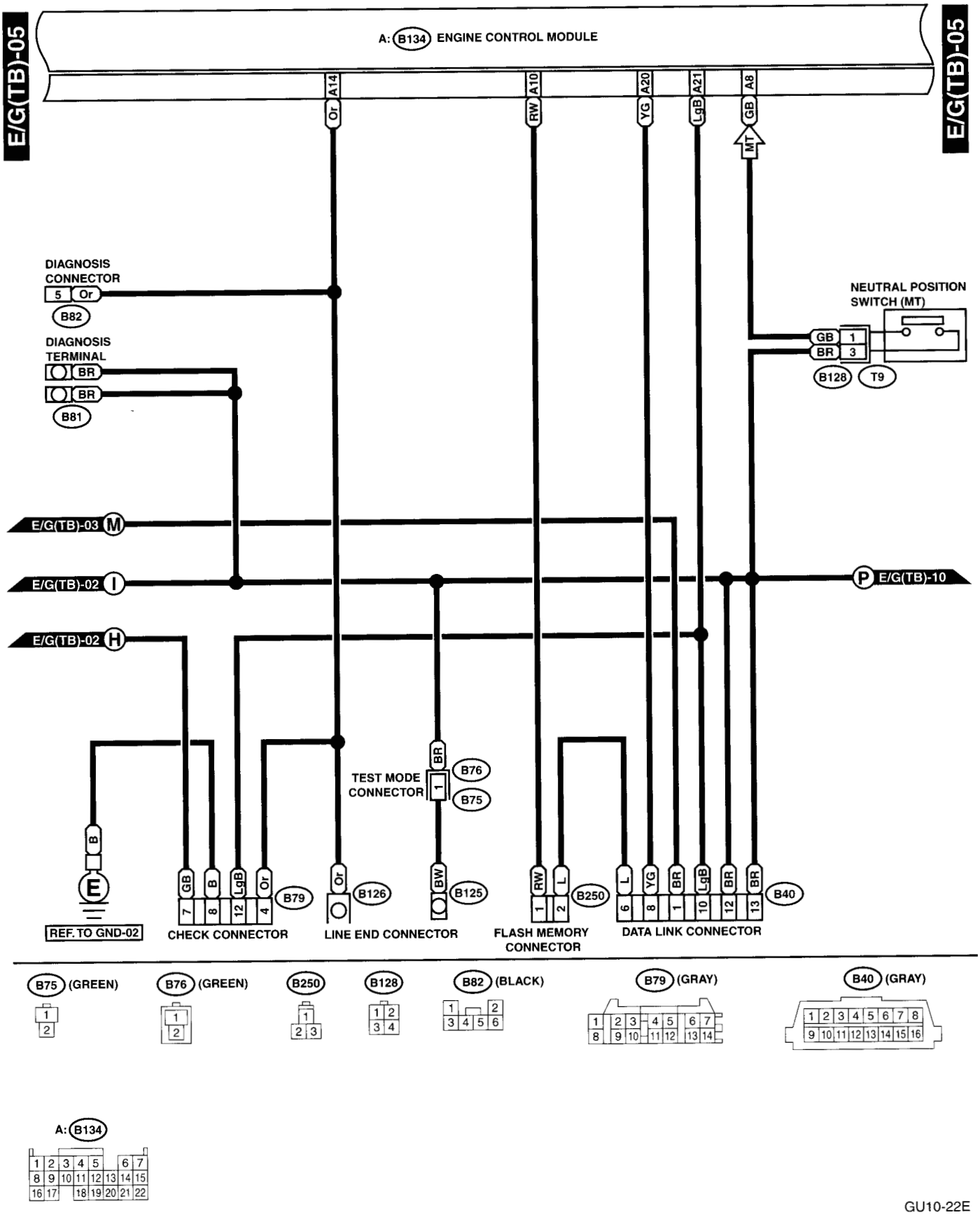
GU10-22C

E/G(TB)-04

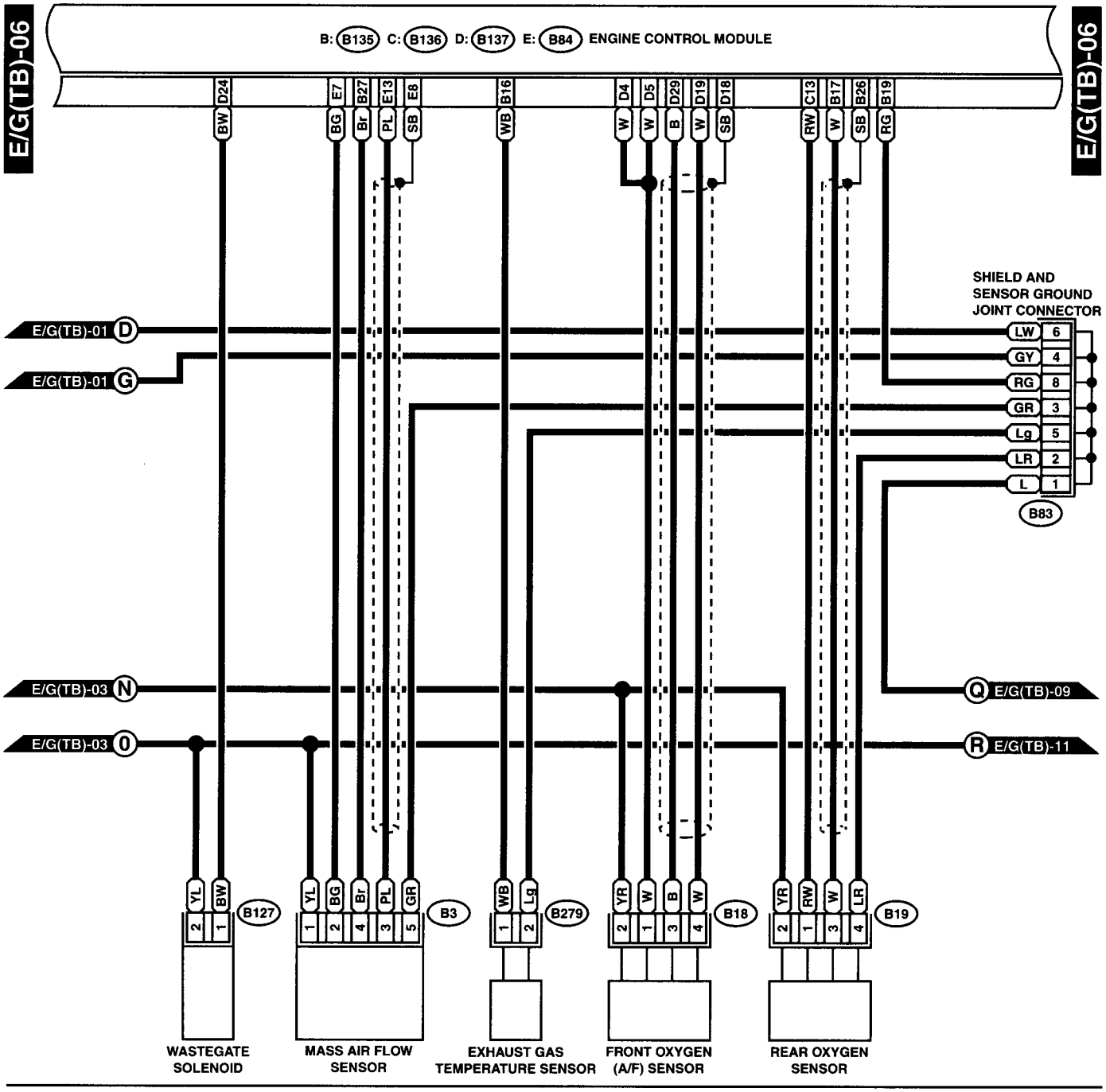
E/G(TB)-04

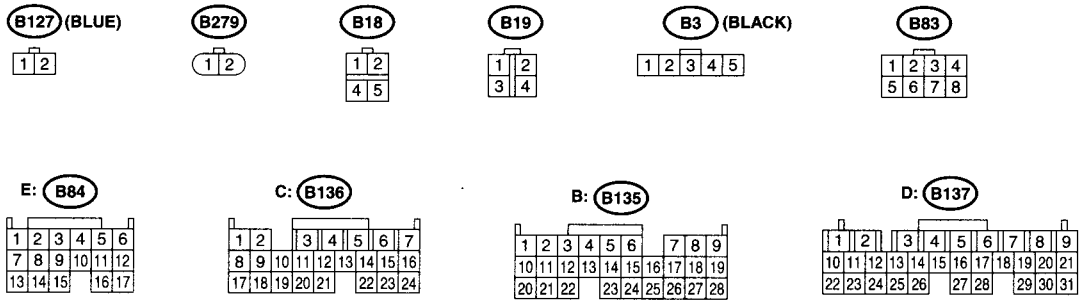


GU10-22D


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
B76
B75
B
E
REF. TO GND-02
GB
B
LgB
Or
7
8
12
4
B79
CHECK CONNECTOR
Or
B126
LINE END CONNECTOR
BW
B125
RW
L
1
2
B250
FLASH MEMORY CONNECTOR
L
YG
BR
LgB
BR
BR
6
8
1
10
12
13
B40
DATA LINK CONNECTOR
B75 (GREEN)
B76 (GREEN)
B250
B128
B82 (BLACK)
B79 (GRAY)
B40 (GRAY)
A: B134

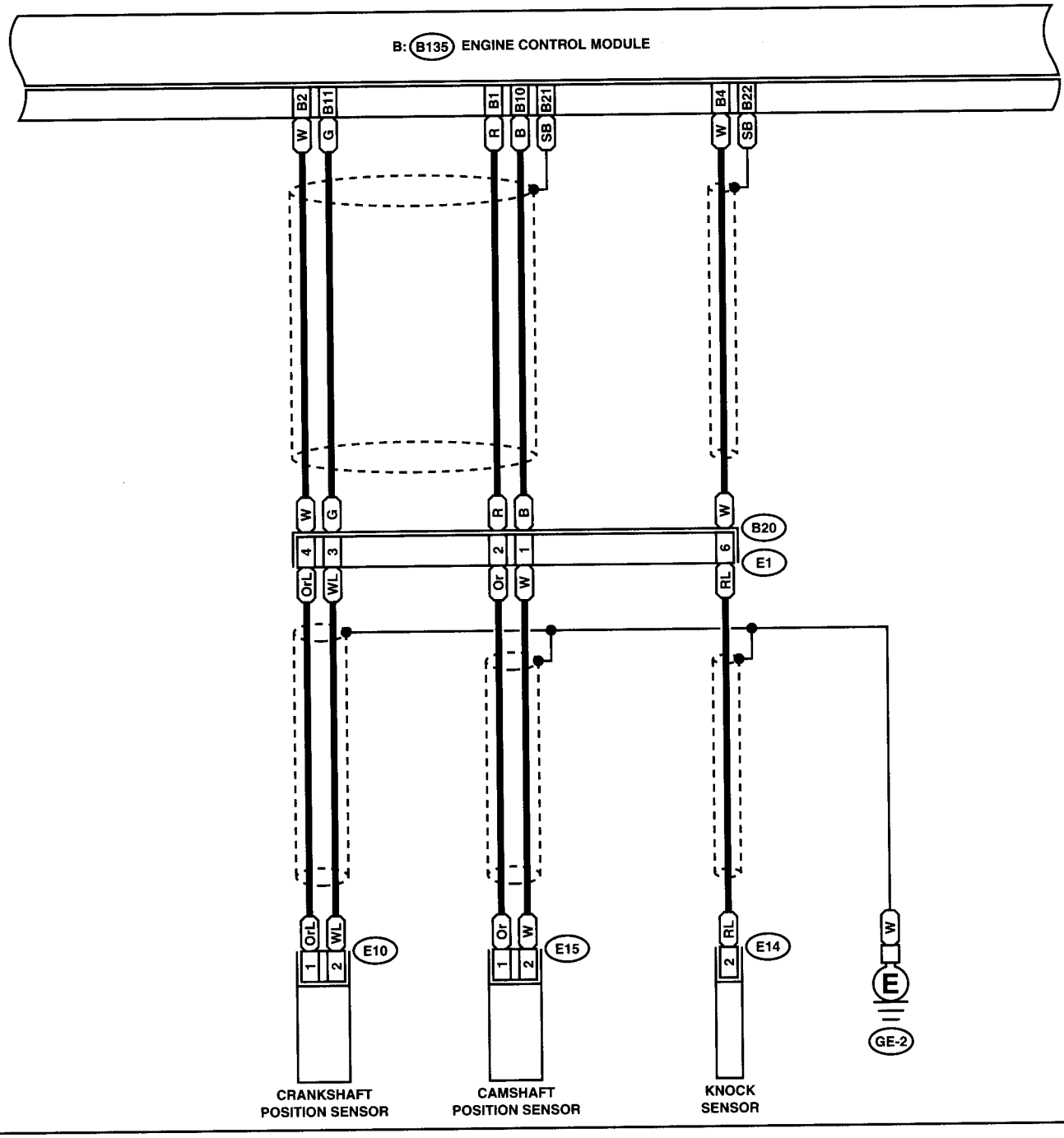
GU10-22E


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
YL BW B127
YL BG Br PL GR B3
WB Lg B279
YR W B W B18
YR RW W LR B19
WASTEGATE SOLENOID
MASS AIR FLOW SENSOR
EXHAUST GAS TEMPERATURE SENSOR
FRONT OXYGEN (A/F) SENSOR
REAR OXYGEN SENSOR


B127 (BLUE)
B279
B18
B19
B3 (BLACK)
B83
E: B84
C: B136
B: B135
D: B137

GU10-22F

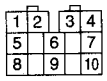
E/G(TB)-07



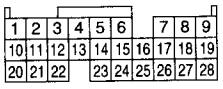
E/G(TB)-07

E10 (LIGHT GRAY)
E14 (GRAY)
E15 (LIGHT GRAY)

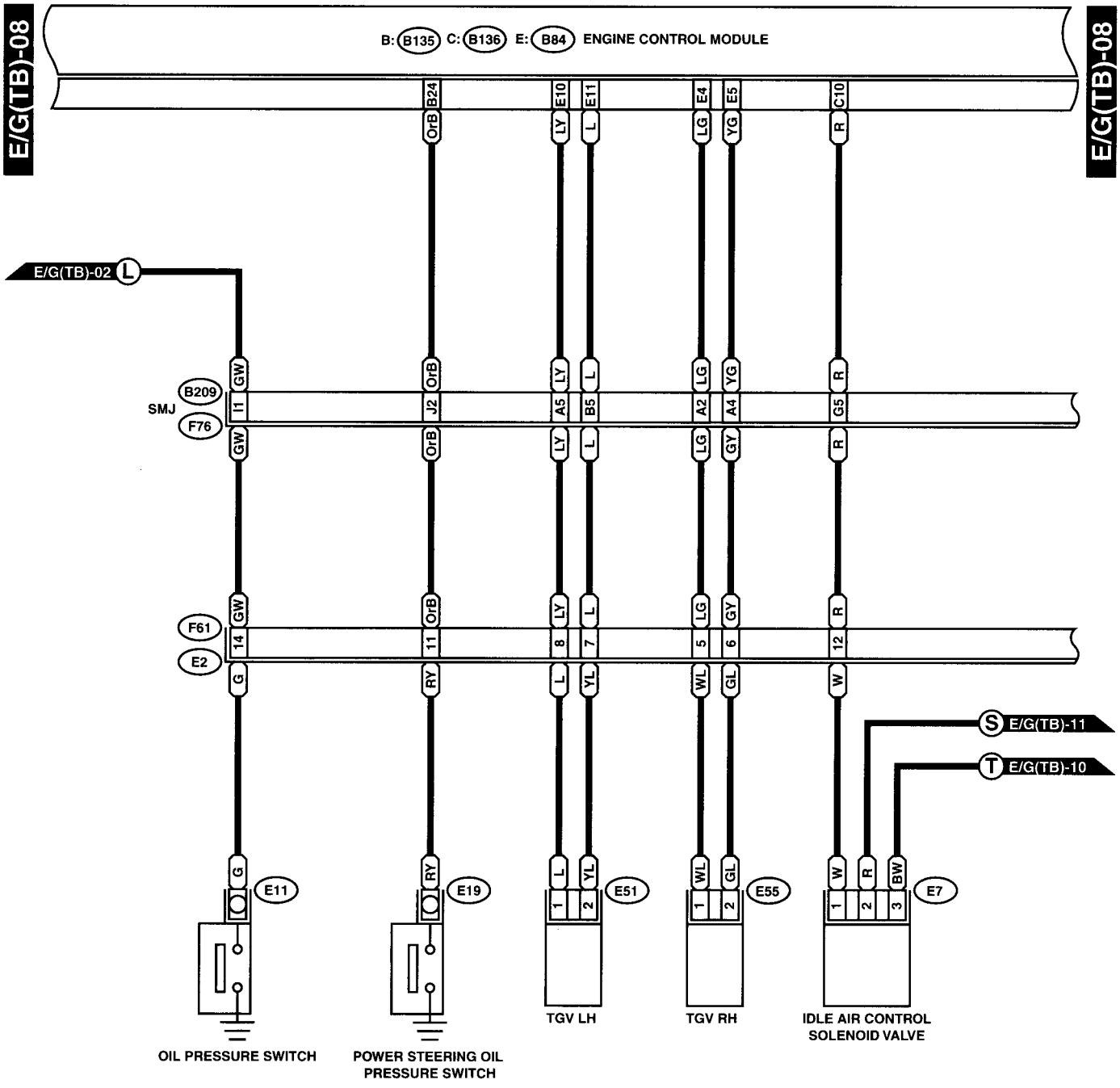
E1 (LIGHT GRAY)

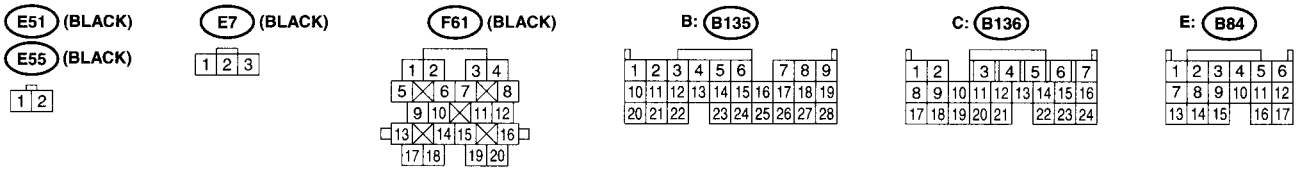


B: B135

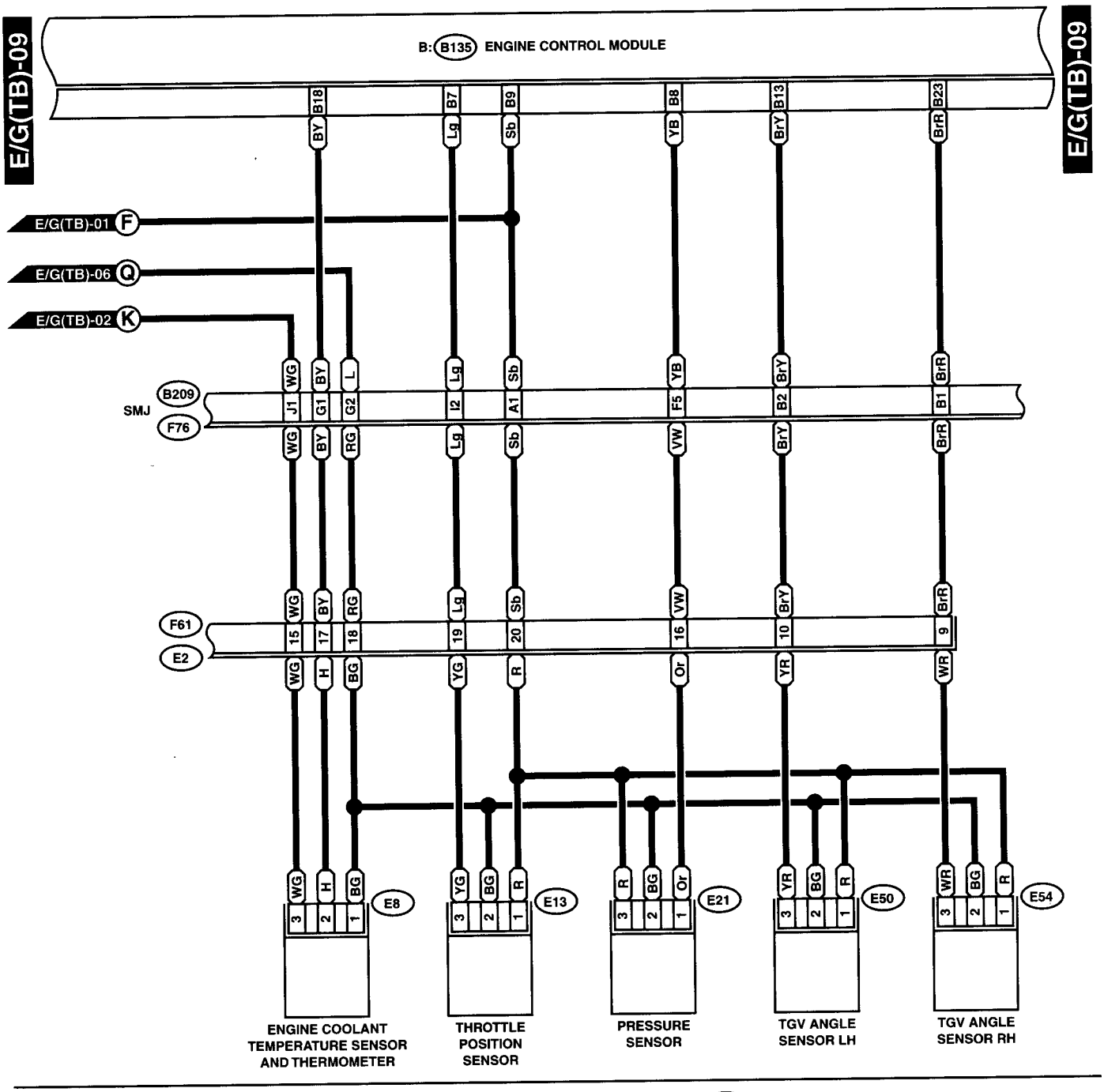


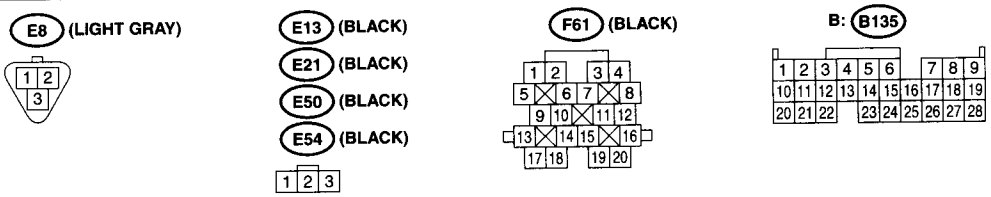
GU10-22G


E/G(TB)-08
B: B135 C: B136 E: B84 ENGINE CONTROL MODULE
B24
E10
E11
E4
E5
C10
OrB
LY
L
LG
YG
R
E/G(TB)-02 L
B209
SMJ
F76
GW
I1
J2
A5
B5
A2
A4
G5
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

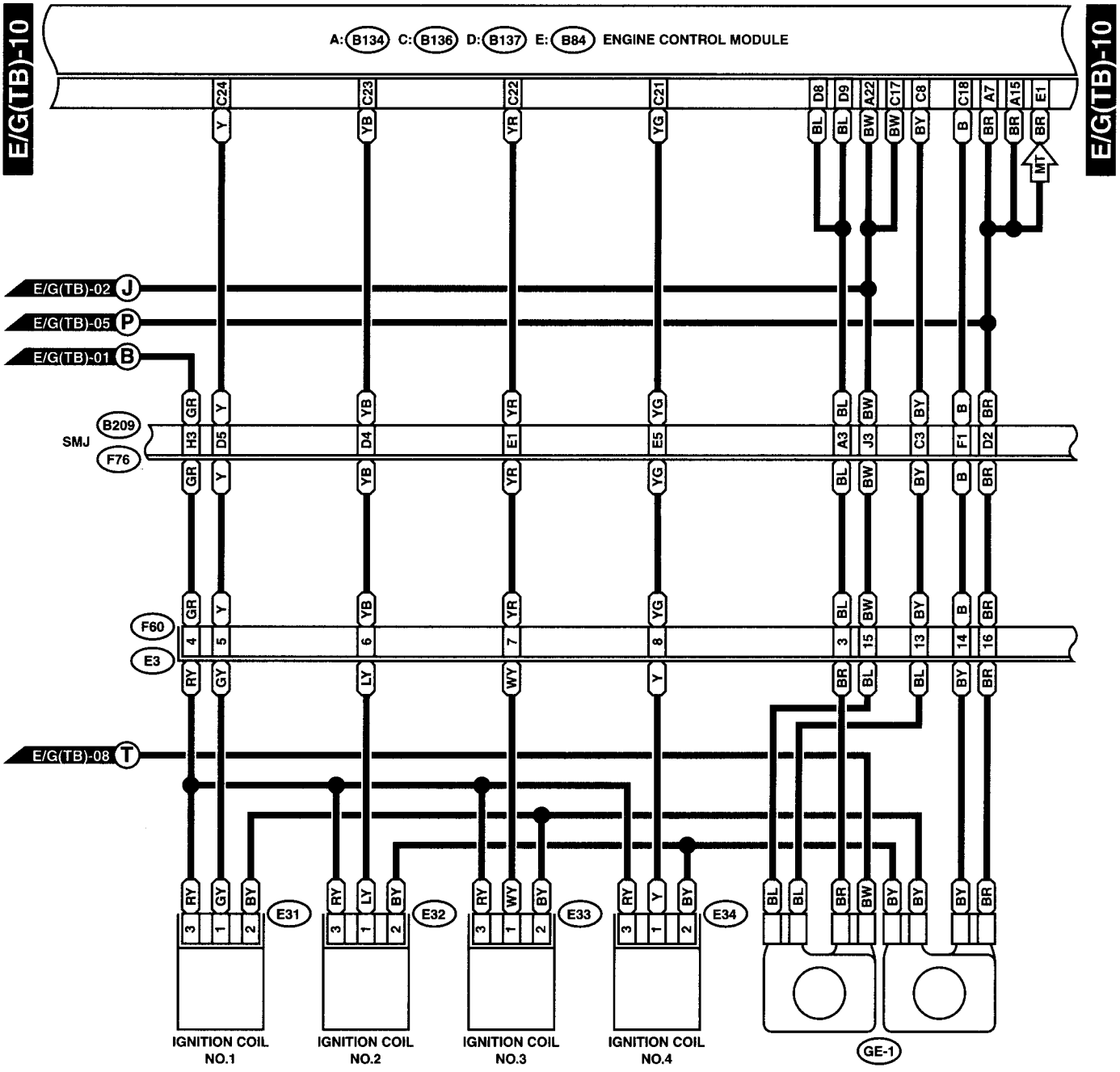

E51 (BLACK)
E55 (BLACK)
E7 (BLACK)
F61 (BLACK)
B: B135
C: B136
E: B84

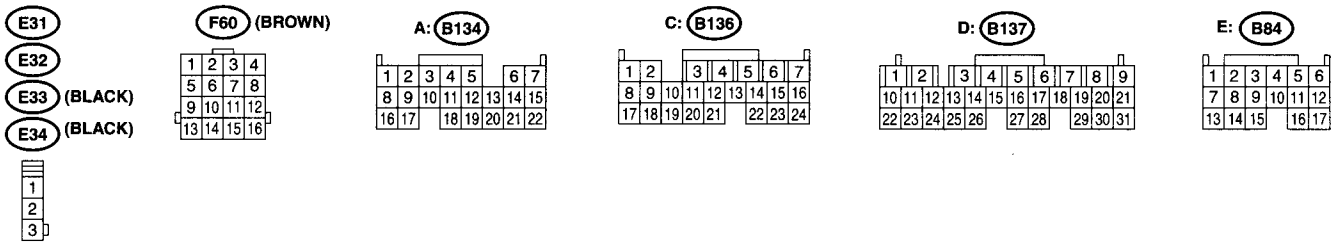
GU10-22H


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

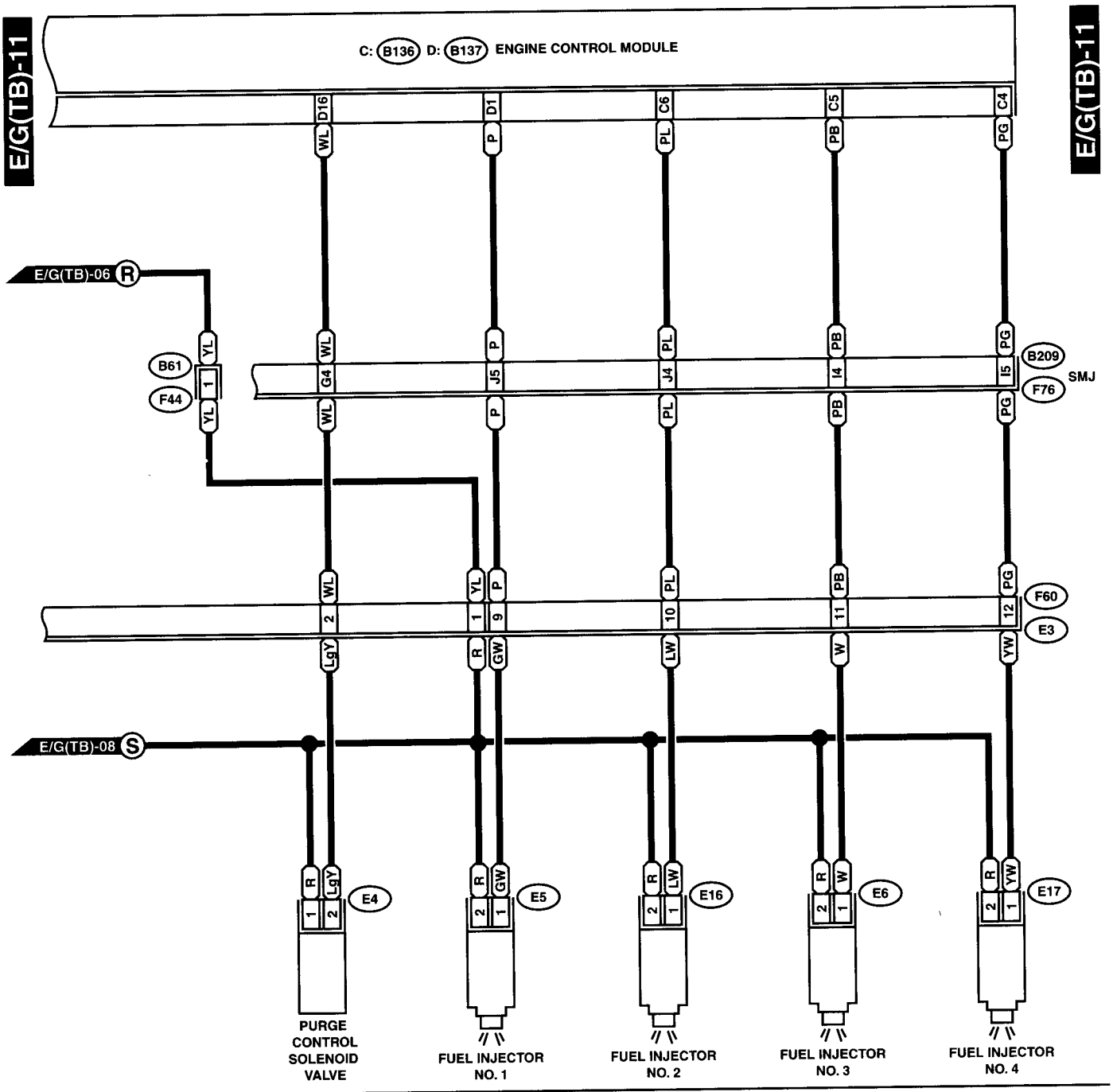

E8 (LIGHT GRAY)
E13 (BLACK)
E21 (BLACK)
E50 (BLACK)
E54 (BLACK)
F61 (BLACK)
B: B135

GU10-22I


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
H3 D5 D4 E1 E5 A3 J3 C3 F1 D2
GR Y YB YR YG BL BW BY B BR
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
E31 E32 E33 E34
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)
A: B134
C: B136
D: B137
E: B84

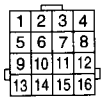
GU10-22J



E5 (DARK GRAY)
E6 (DARK GRAY)
E16 (DARK GRAY)
E17 (DARK GRAY)

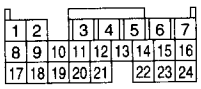
E4 (BLACK)

F60 (BROWN)

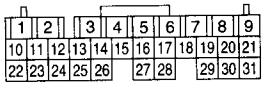


F44

C: B136

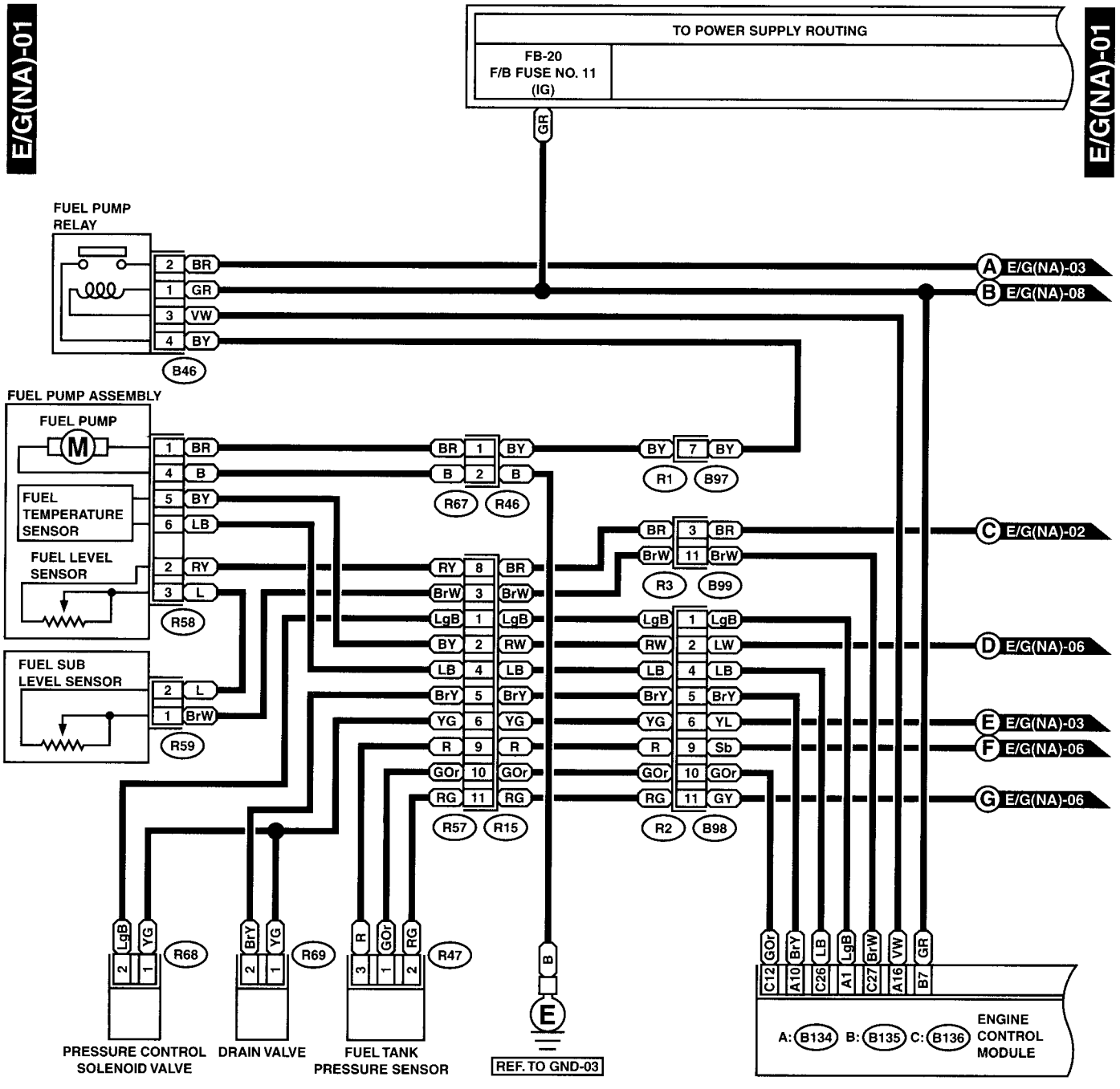


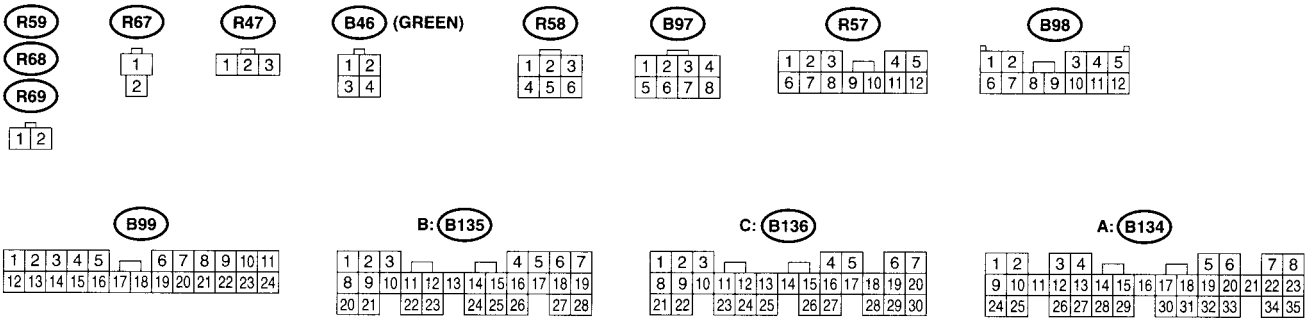
D: B137



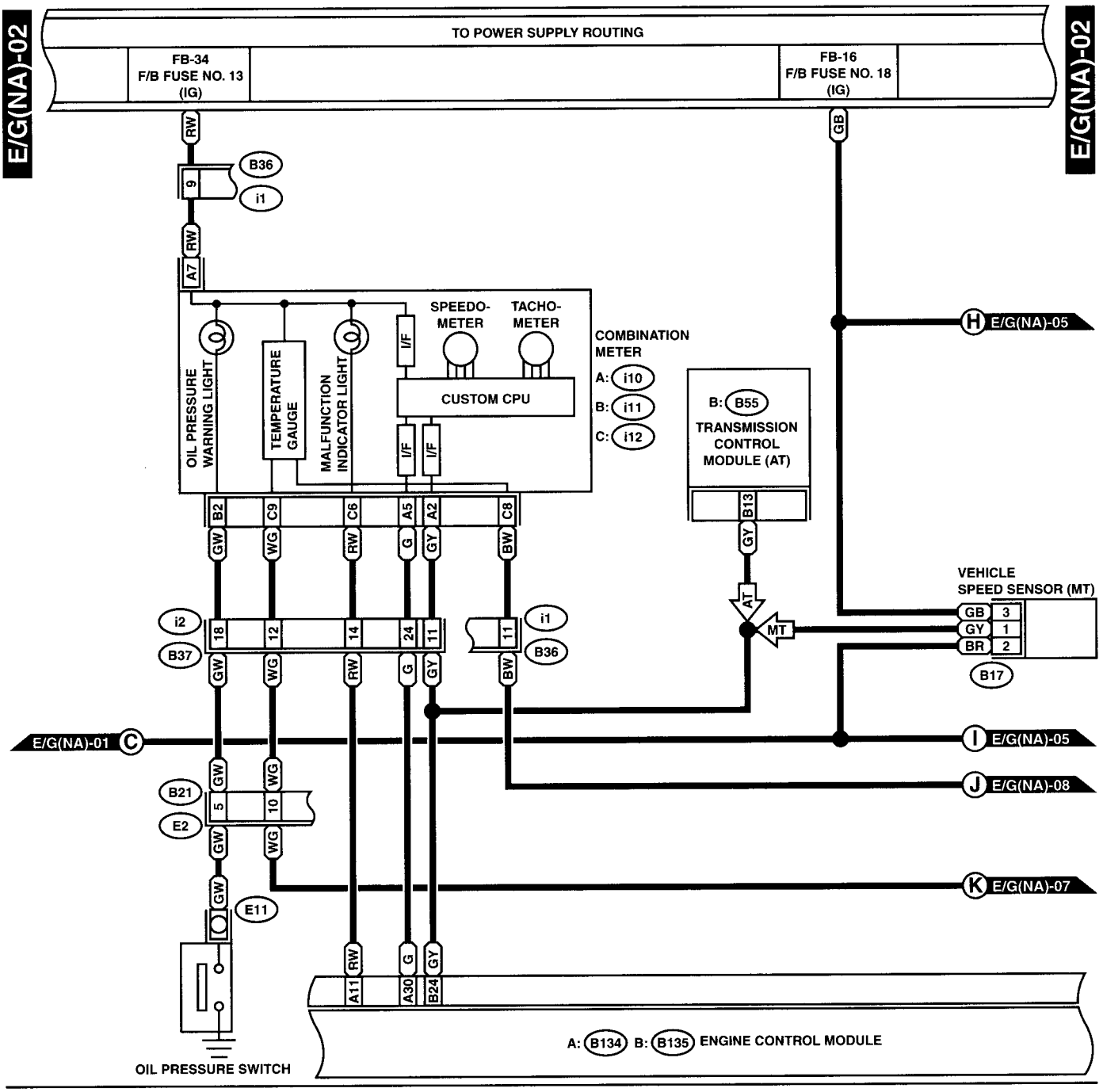
GU10-22K

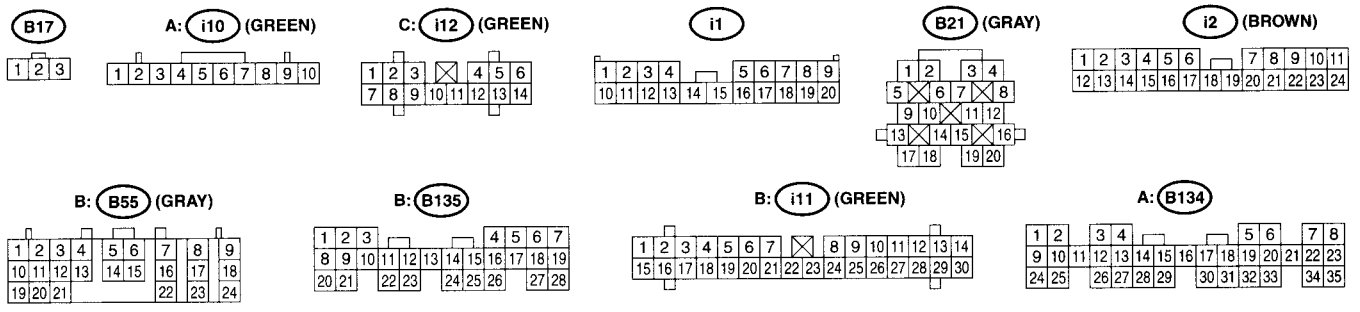
2. NON-TURBO ENGINE MODEL



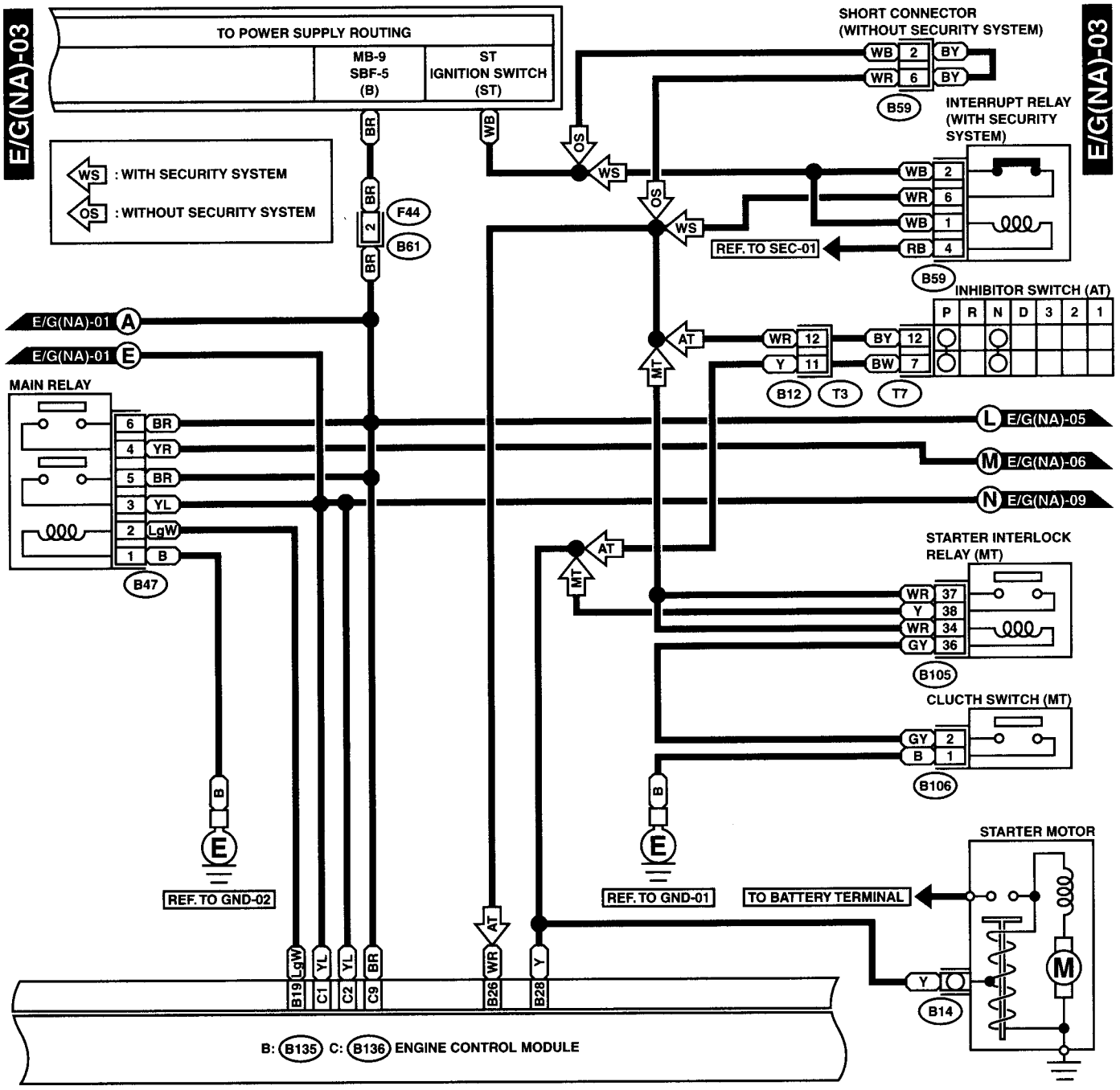


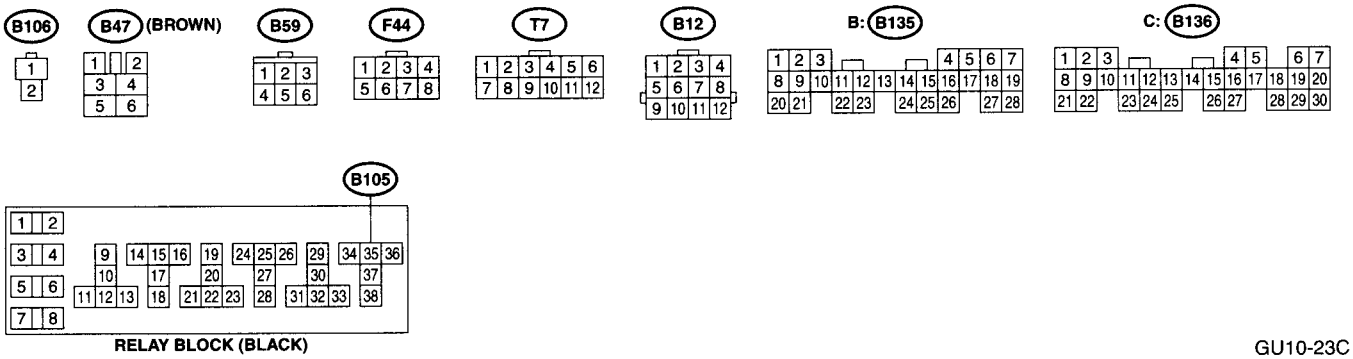
GU10-23A


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
RW
B36
9
i1
RW
A7
SPEEDO-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
B: B55
TRANSMISSION CONTROL MODULE (AT)
B13
GY
AT
MT
H E/G(NA)-05
VEHICLE SPEED SENSOR (MT)
GB 3
GY 1
BR 2
B17
B2
C9
C6
A5
A2
C8
GW
WG
RW
G
GY
BW
i2
B37
18
12
14
24
11
i1
B36
11
E/G(NA)-01 C
I E/G(NA)-05
J E/G(NA)-08
B21
5
10
E2
K E/G(NA)-07
E11
A11
A30
B24
OIL PRESSURE SWITCH
A: B134 B: B135 ENGINE CONTROL MODULE


B17
A: i10 (GREEN)
C: i12 (GREEN)
i1
B21 (GRAY)
i2 (BROWN)
B: B55 (GRAY)
B: B135
B: i11 (GREEN)
A: B134

GU10-23B

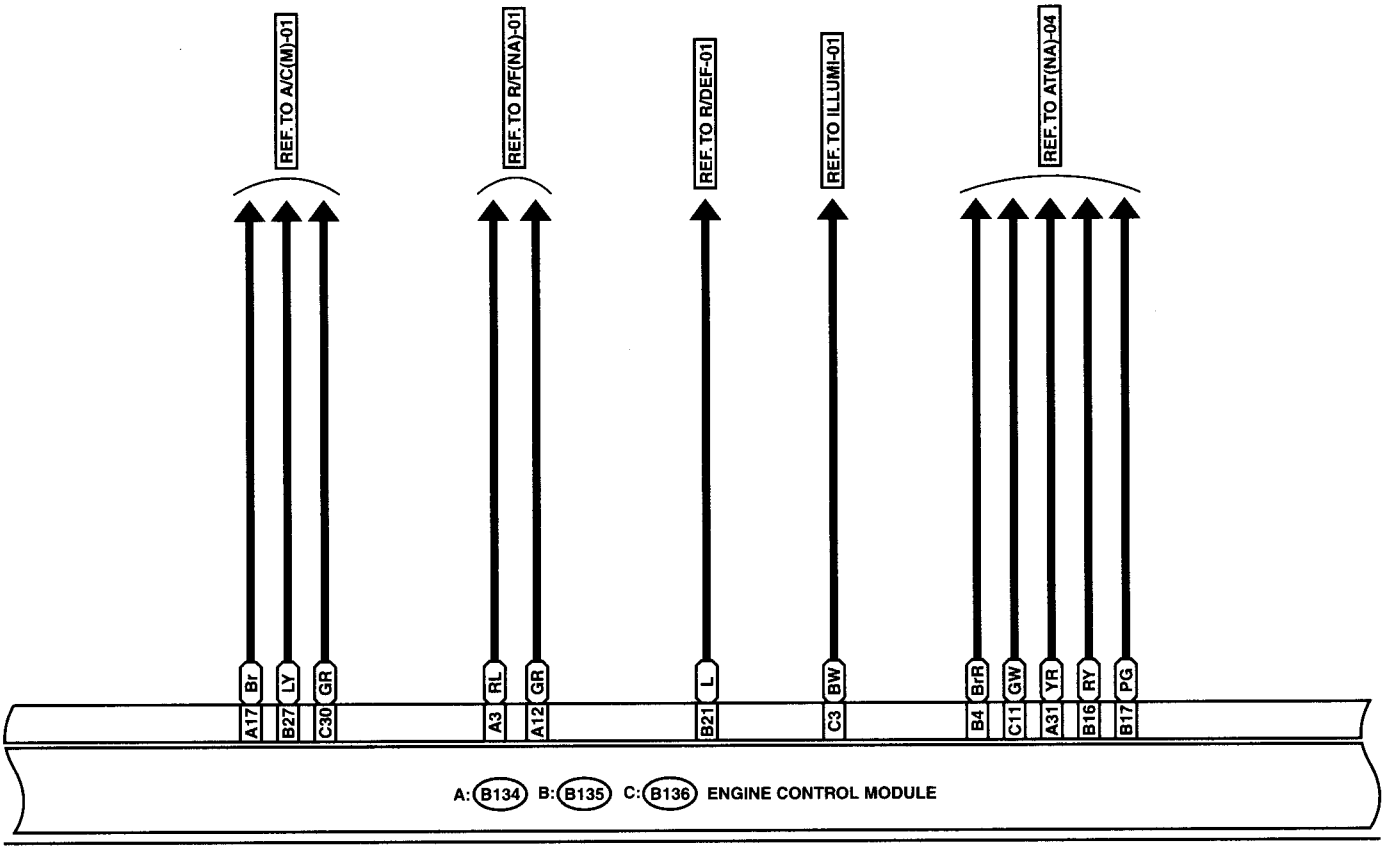

E/G(NA)-03
TO POWER SUPPLY ROUTING
MB-9 SBF-5 (B)
ST IGNITION SWITCH (ST)
WS : WITH SECURITY SYSTEM
OS : WITHOUT SECURITY SYSTEM
SHORT CONNECTOR (WITHOUT SECURITY SYSTEM)
INTERRUPT RELAY (WITH SECURITY SYSTEM)
REF. TO SEC-01
INHIBITOR SWITCH (AT)
P R N D 3 2 1
E/G(NA)-01
MAIN RELAY
E/G(NA)-05
E/G(NA)-06
E/G(NA)-09
STARTER INTERLOCK RELAY (MT)
CLUCTH SWITCH (MT)
REF. TO GND-02
REF. TO GND-01
TO BATTERY TERMINAL
STARTER MOTOR
B: B135 C: B136 ENGINE CONTROL MODULE

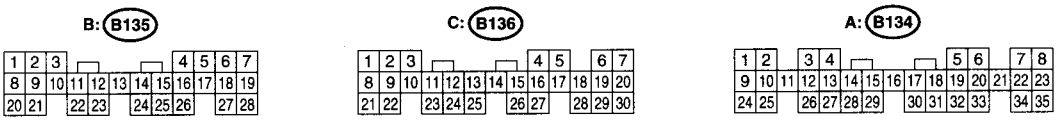

B106
B47 (BROWN)
B59
F44
T7
B12
B: B135
C: B136
B105
RELAY BLOCK (BLACK)

GU10-23C

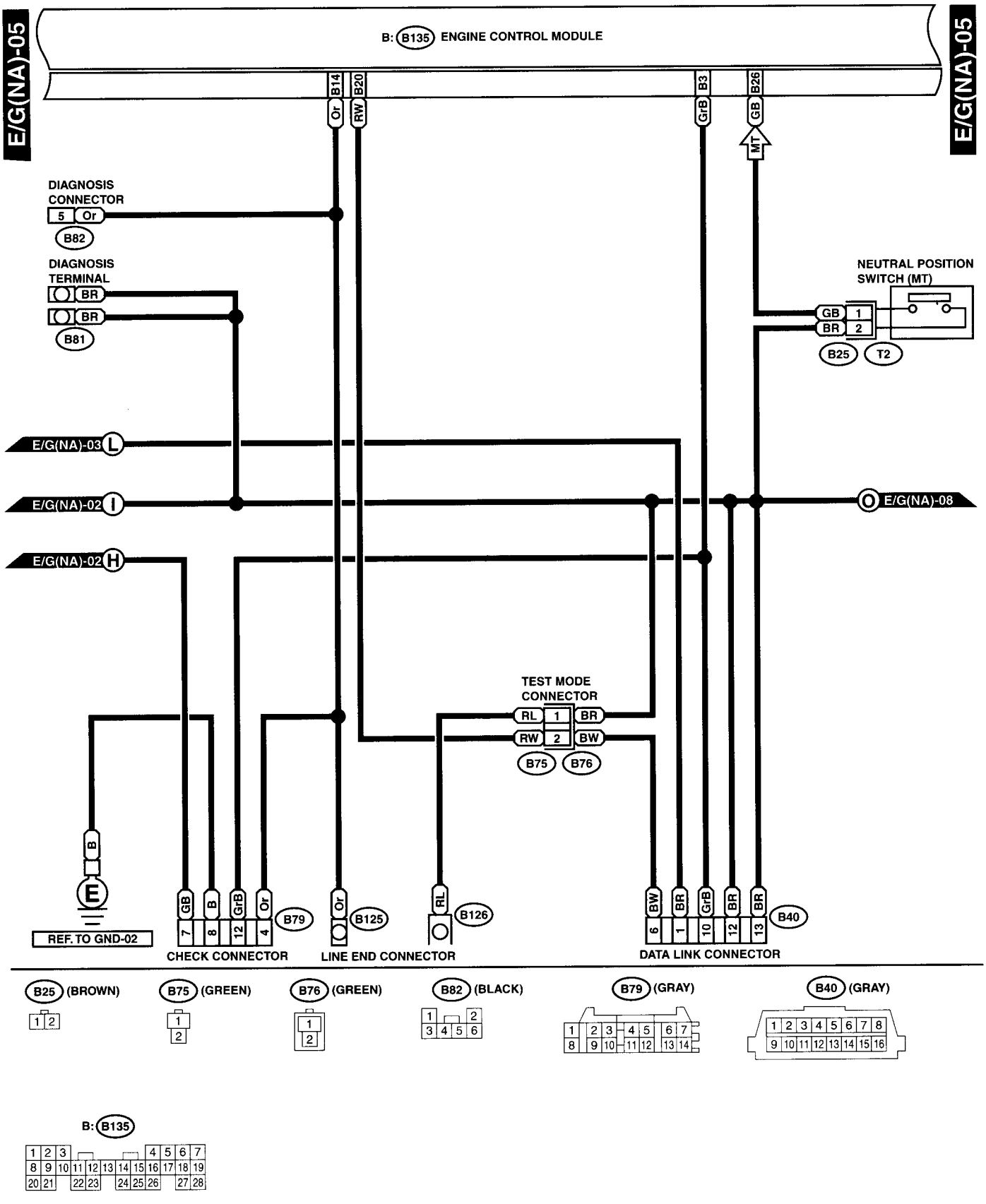
E/G(NA)-04

E/G(NA)-04

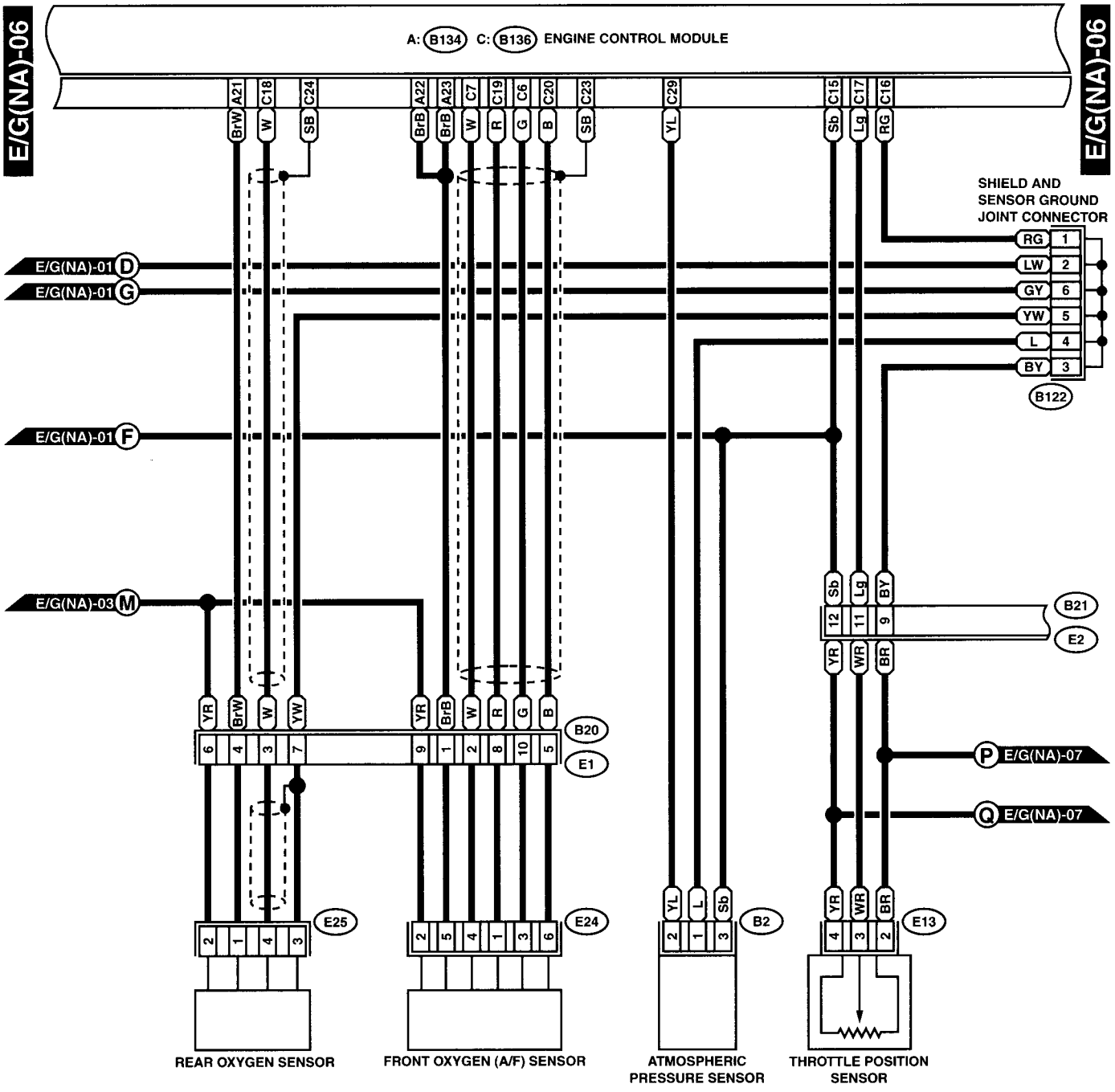


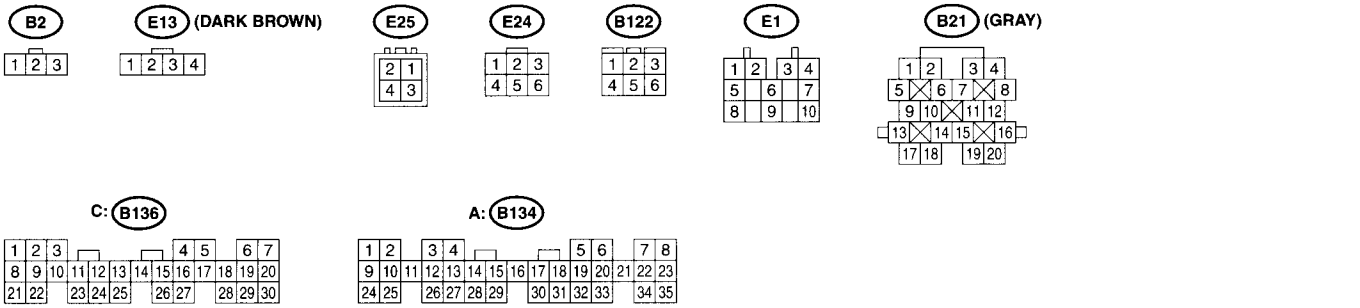


GU10-23D

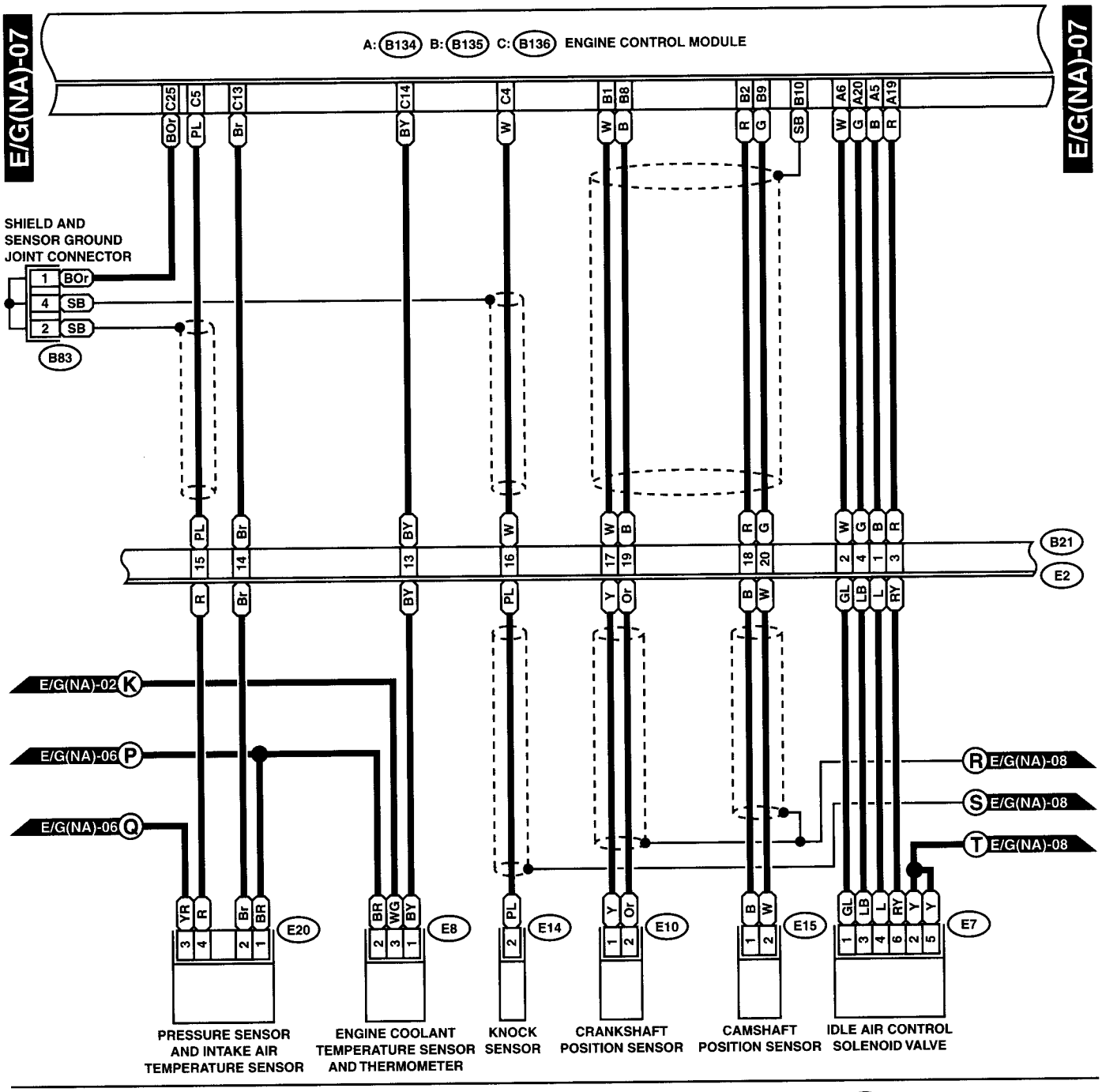

E/G(NA)-05
B: B135 ENGINE CONTROL MODULE
B14
B20
B3
B26
Or
RW
GrB
GB
MT
DIAGNOSIS CONNECTOR
5 Or
B82
DIAGNOSIS TERMINAL
BR
BR
B81
NEUTRAL POSITION SWITCH (MT)
GB 1
BR 2
B25
T2
E/G(NA)-03 L
E/G(NA)-02 I
E/G(NA)-02 H
O E/G(NA)-08
TEST MODE CONNECTOR
RL 1 BR
RW 2 BW
B75
B76
B
REF. TO GND-02
GB
B
GrB
Or
7
8
12
4
B79
CHECK CONNECTOR
Or
B125
LINE END CONNECTOR
RL
B126
BW
BR
GrB
BR
BR
6
1
10
12
13
B40
DATA LINK CONNECTOR
B25 (BROWN)
B75 (GREEN)
B76 (GREEN)
B82 (BLACK)
B79 (GRAY)
B40 (GRAY)
B: B135

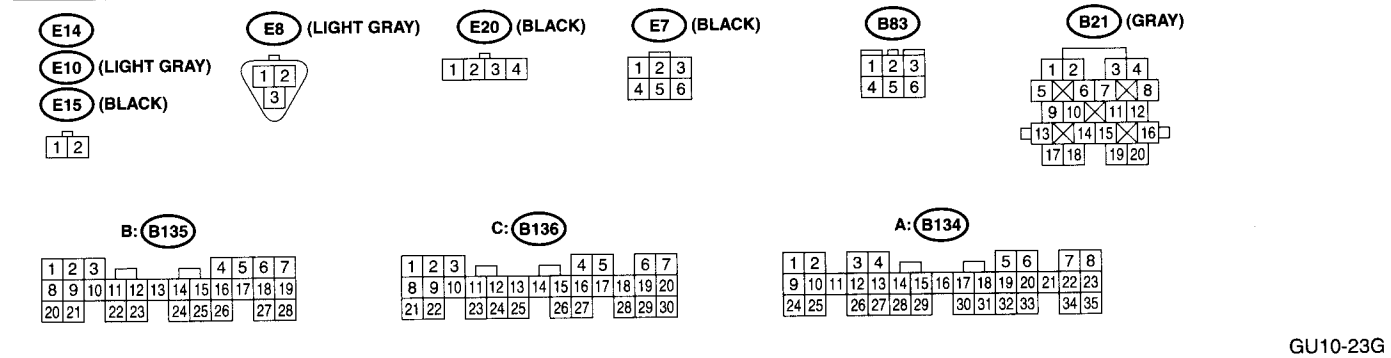
GU10-23E


E/G(NA)-06
A: B134 C: B136 ENGINE CONTROL MODULE
A21 C18 C24 A22 A23 C7 C19 C6 C20 C23 C29 C15 C17 C16
BrW W SB BrB BrB W R G B SB YL Sb Lg RG
SHIELD AND SENSOR GROUND JOINT CONNECTOR
RG 1
LW 2
GY 6
YW 5
L 4
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
YR BrW W YW YR BrB W R G B
B20
E1
6 4 3 7 9 1 2 8 10 5
P E/G(NA)-07
Q E/G(NA)-07
E25
E24
B2
E13
2 1 4 3
2 5 4 1 3 6
YL L Sb
2 1 3
YR WR BR
4 3 2
REAR OXYGEN SENSOR
FRONT OXYGEN (A/F) SENSOR
ATMOSPHERIC PRESSURE SENSOR
THROTTLE POSITION SENSOR

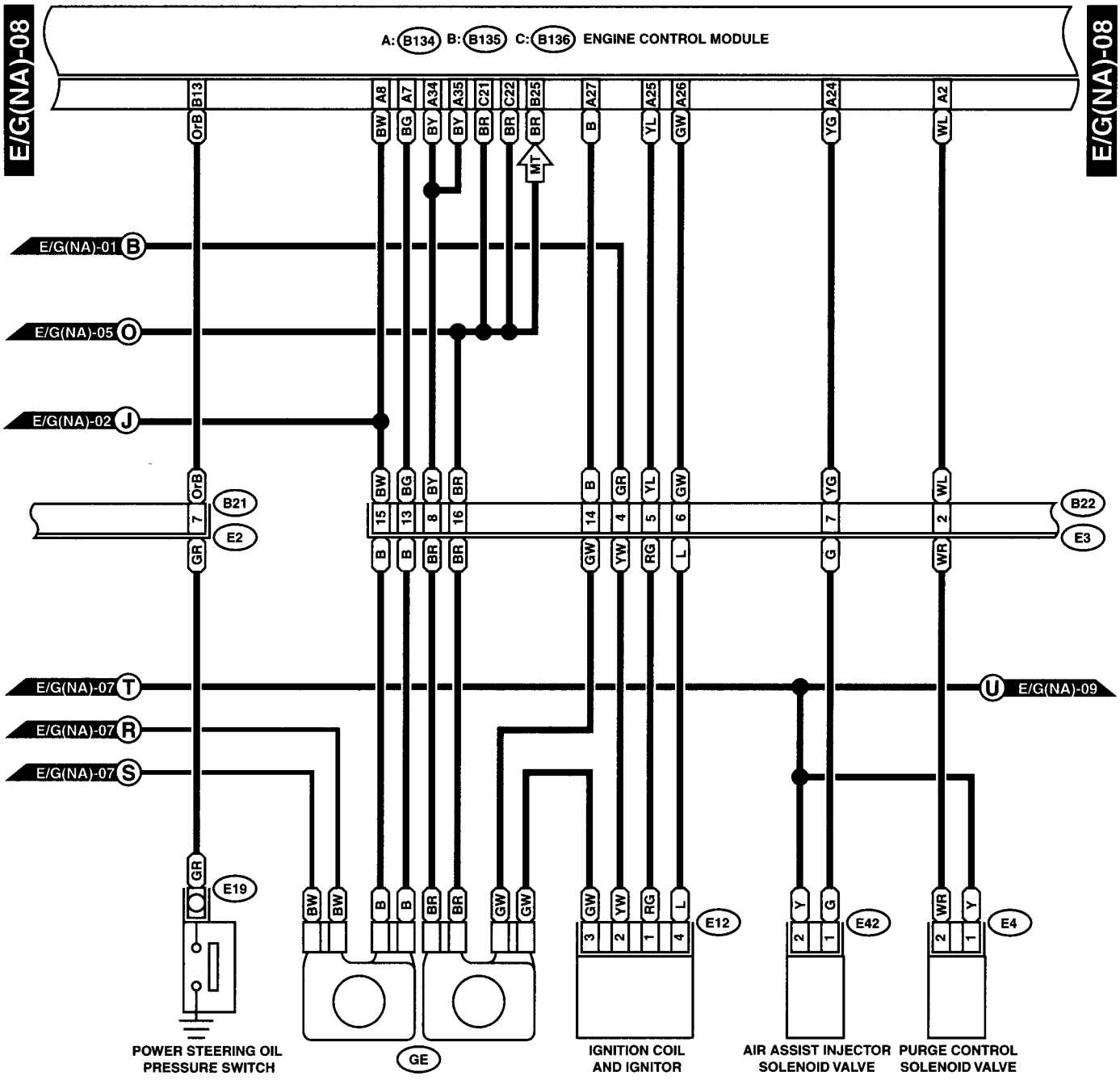

B2
1 2 3
E13 (DARK BROWN)
1 2 3 4
E25
2 1
4 3
E24
1 2 3
4 5 6
B122
1 2 3
4 5 6
E1
1 2 3 4
5 6 7
8 9 10
B21 (GRAY)
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
17 18 19 20
C: B136
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30
A: B134
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35

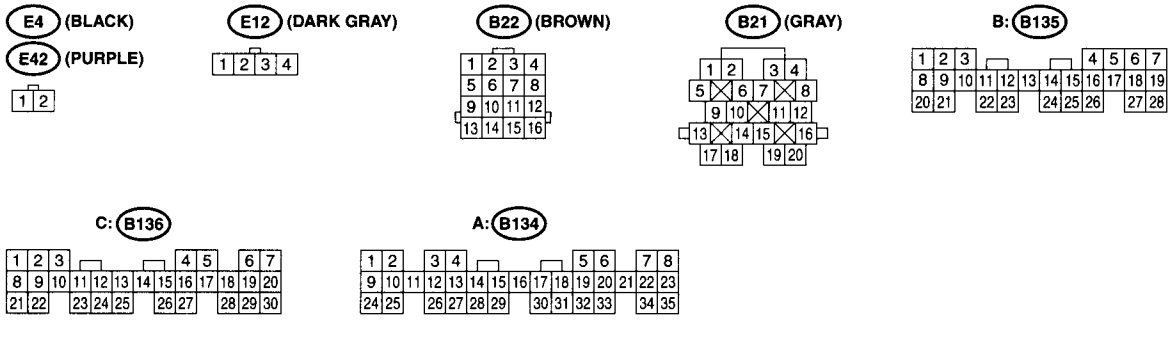
GU10-23F


E/G(NA)-07
A: B134 B: B135 C: B136 ENGINE CONTROL MODULE
SHIELD AND SENSOR GROUND JOINT CONNECTOR
B83
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
E20
E8
E14
E10
E15
E7
PRESSURE SENSOR AND INTAKE AIR TEMPERATURE SENSOR
ENGINE COOLANT TEMPERATURE SENSOR AND THERMOMETER
KNOCK SENSOR
CRANKSHAFT POSITION SENSOR
CAMSHAFT POSITION SENSOR
IDLE AIR CONTROL SOLENOID VALVE

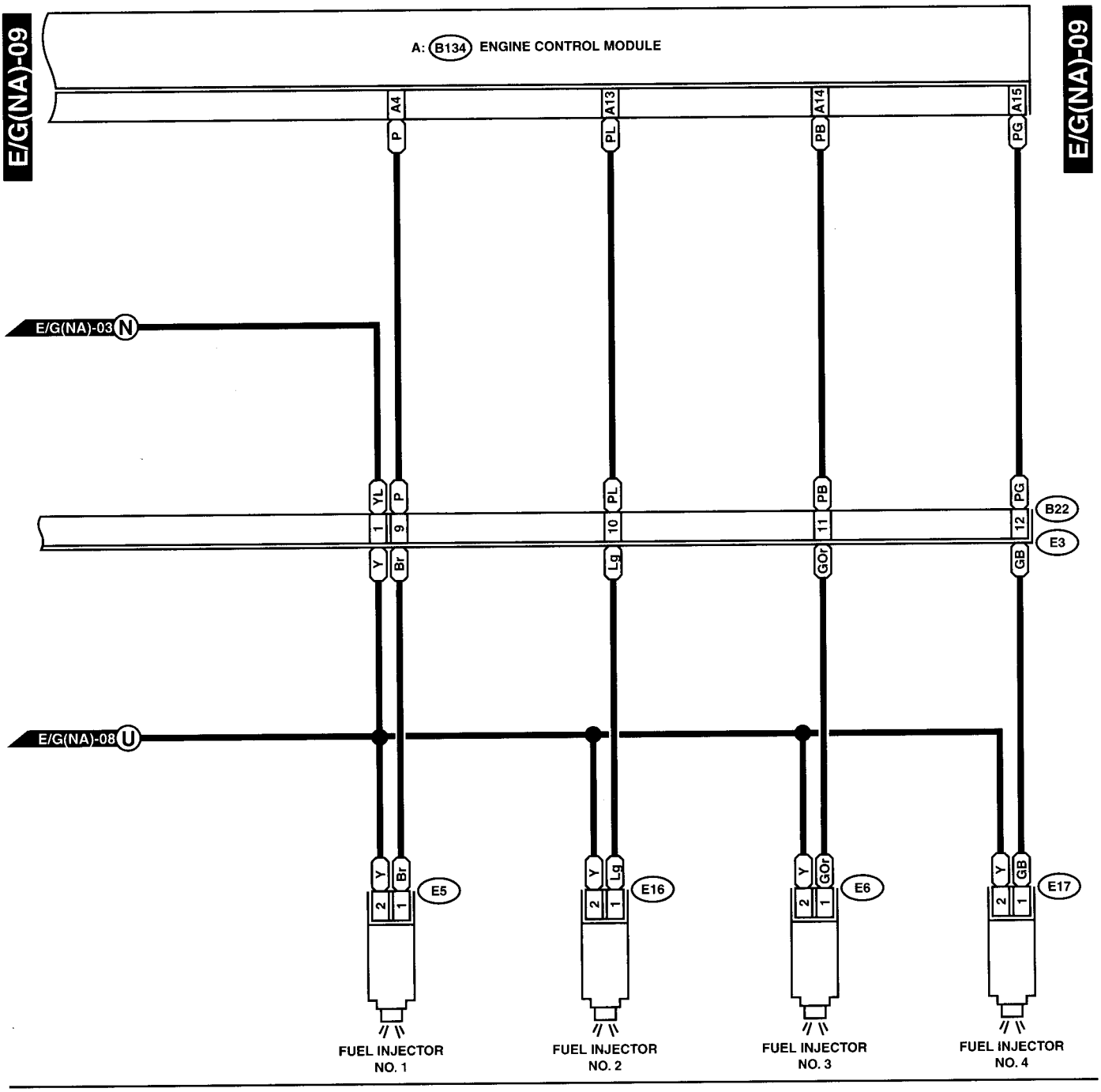

E14
E10 (LIGHT GRAY)
E15 (BLACK)
E8 (LIGHT GRAY)
E20 (BLACK)
E7 (BLACK)
B83
B21 (GRAY)
B: B135
C: B136
A: B134

GU10-23G


E/G(NA)-08
A: B134 B: B135 C: B136 ENGINE CONTROL MODULE
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
E/G(NA)-09 U
E19
E12
E42
E4
MT
GE
POWER STEERING OIL PRESSURE SWITCH
IGNITION COIL AND IGNITOR
AIR ASSIST INJECTOR SOLENOID VALVE
PURGE CONTROL SOLENOID VALVE

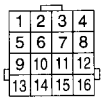

E4 (BLACK)
E42 (PURPLE)
E12 (DARK GRAY)
B22 (BROWN)
B21 (GRAY)
B: B135
C: B136
A: B134

GU10-23H

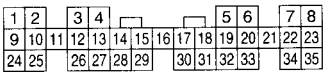


E5 (LIGHT GRAY)
E6 (LIGHT GRAY)
E16 (LIGHT GRAY)
E17 (LIGHT GRAY)

B22 (BROWN)



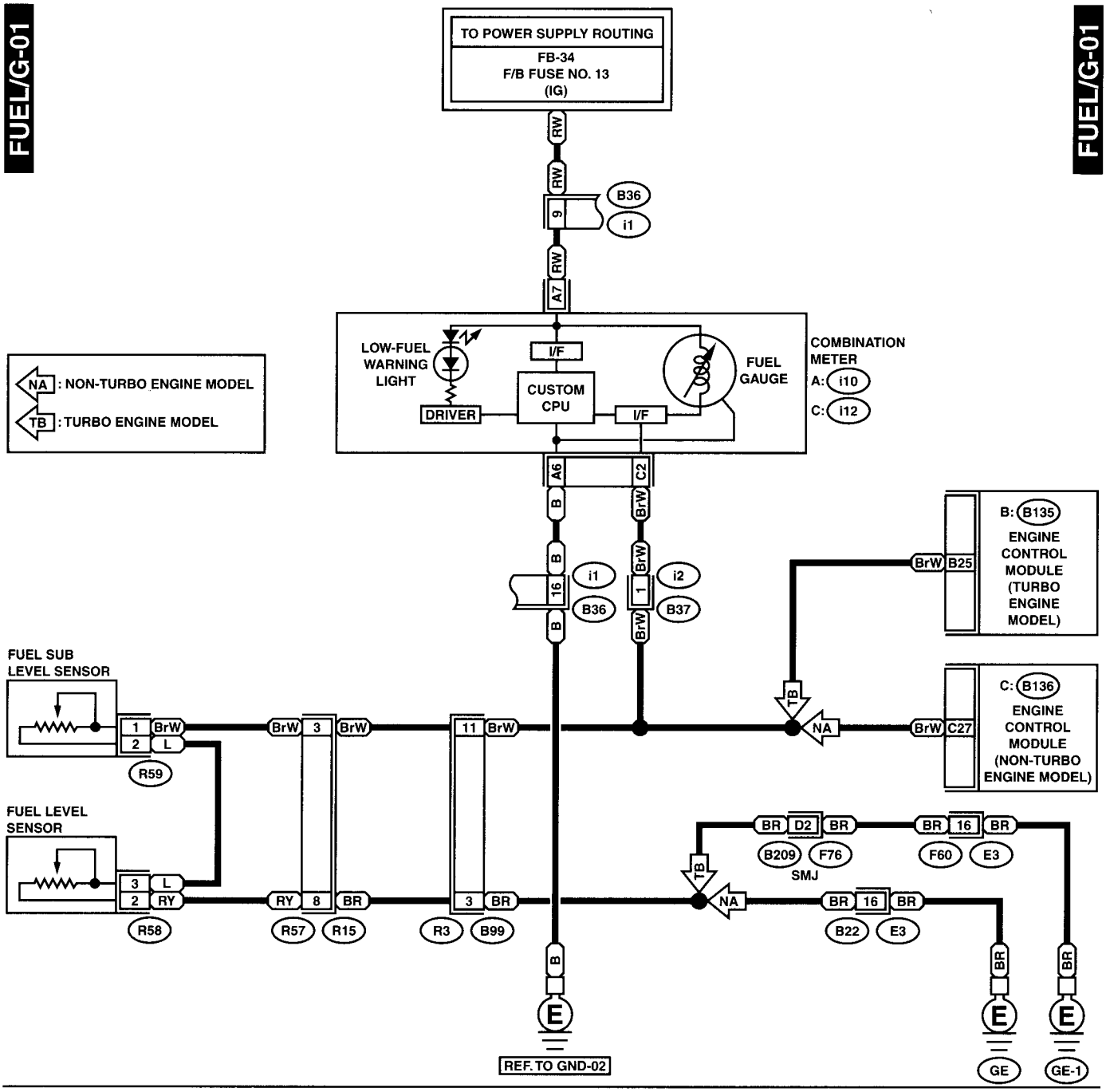
A: B134

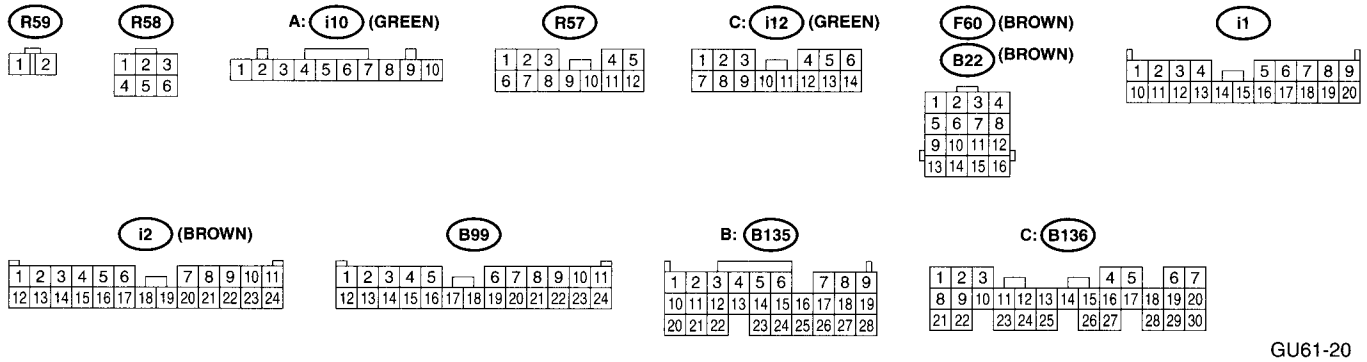


GU10-23I

20.Fuel Gauge System

A: SCHEMATIC



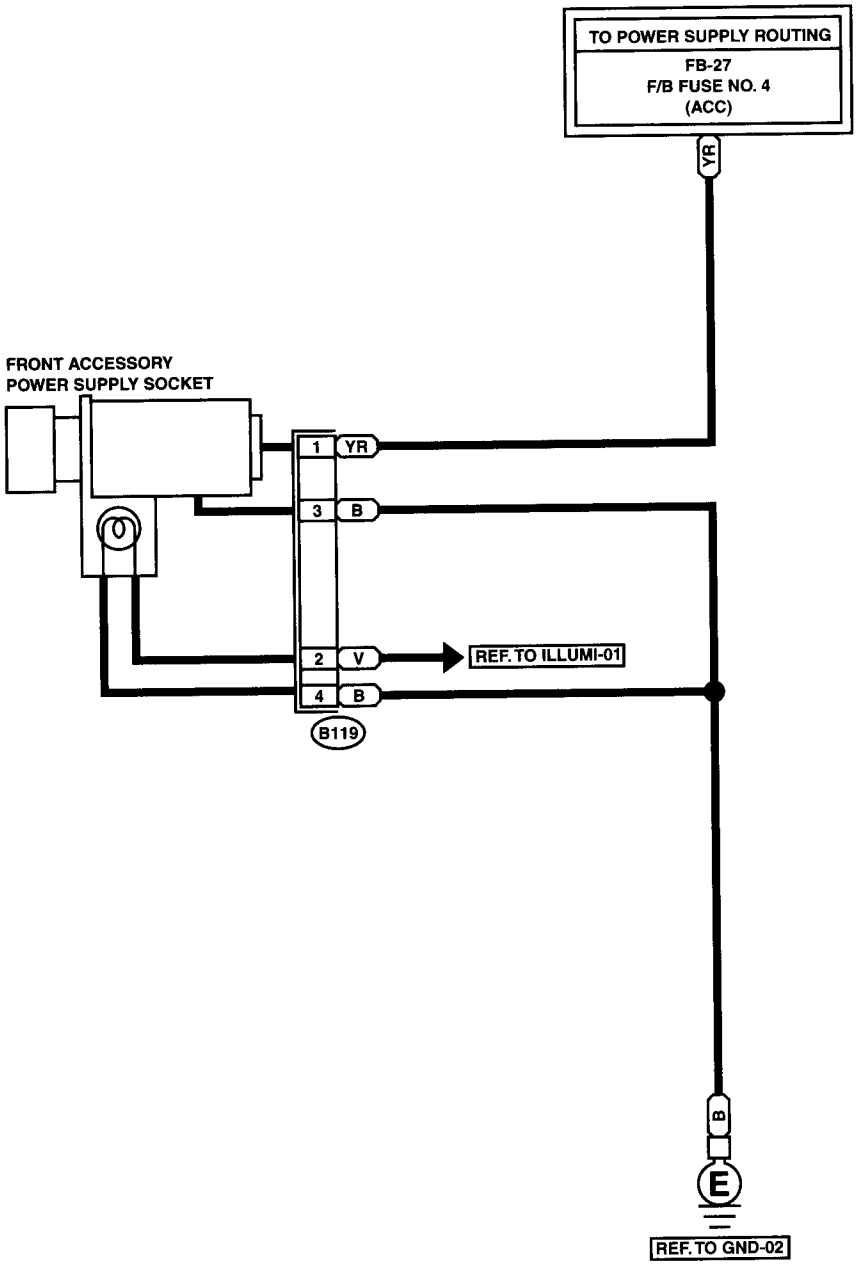


GU61-20

21.Front Accessory Power Supply System

A: SCHEMATIC

FAPS-01



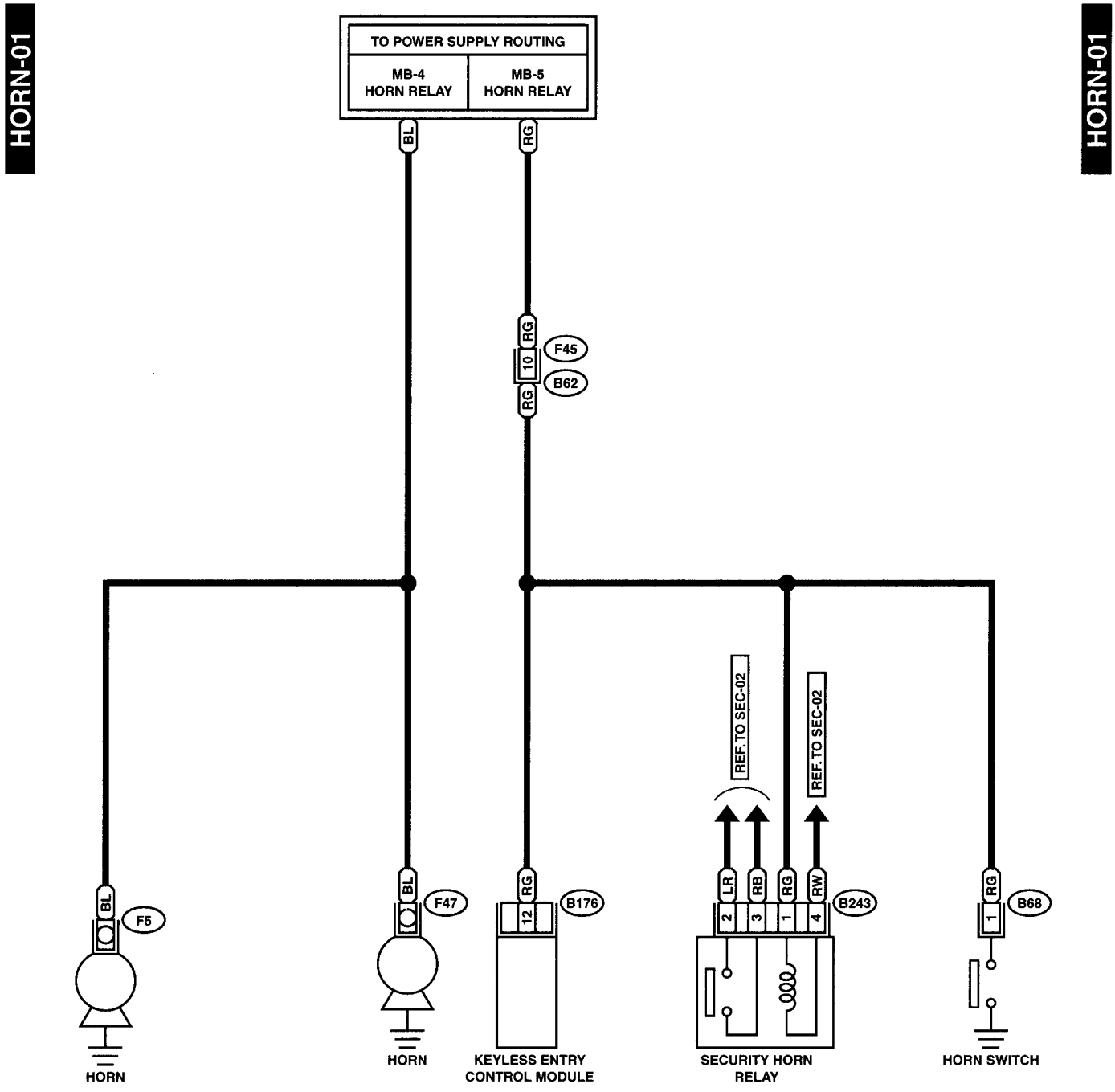
FAPS-01

B119

GU97-20

22.Horn System

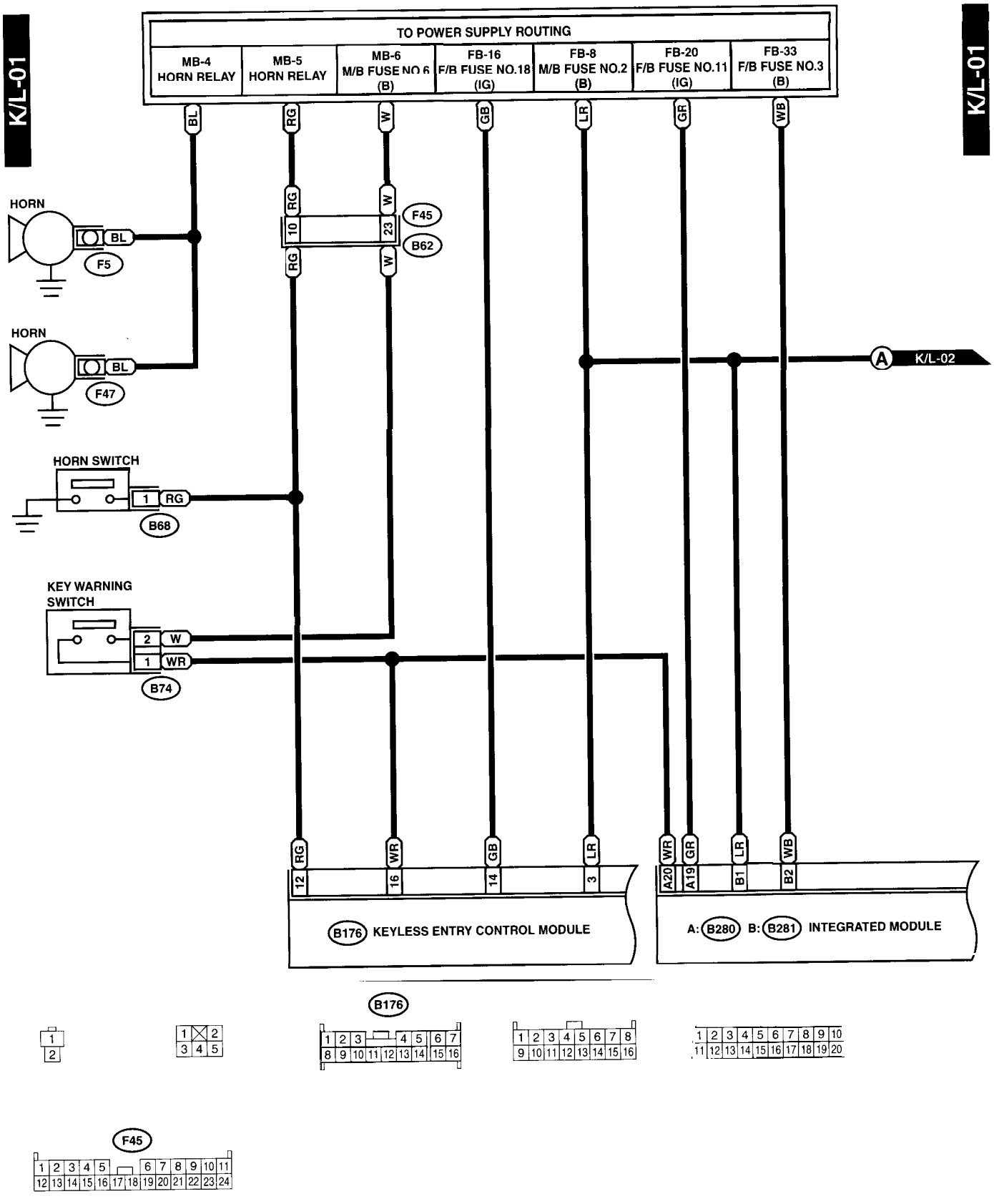
A: SCHEMATIC



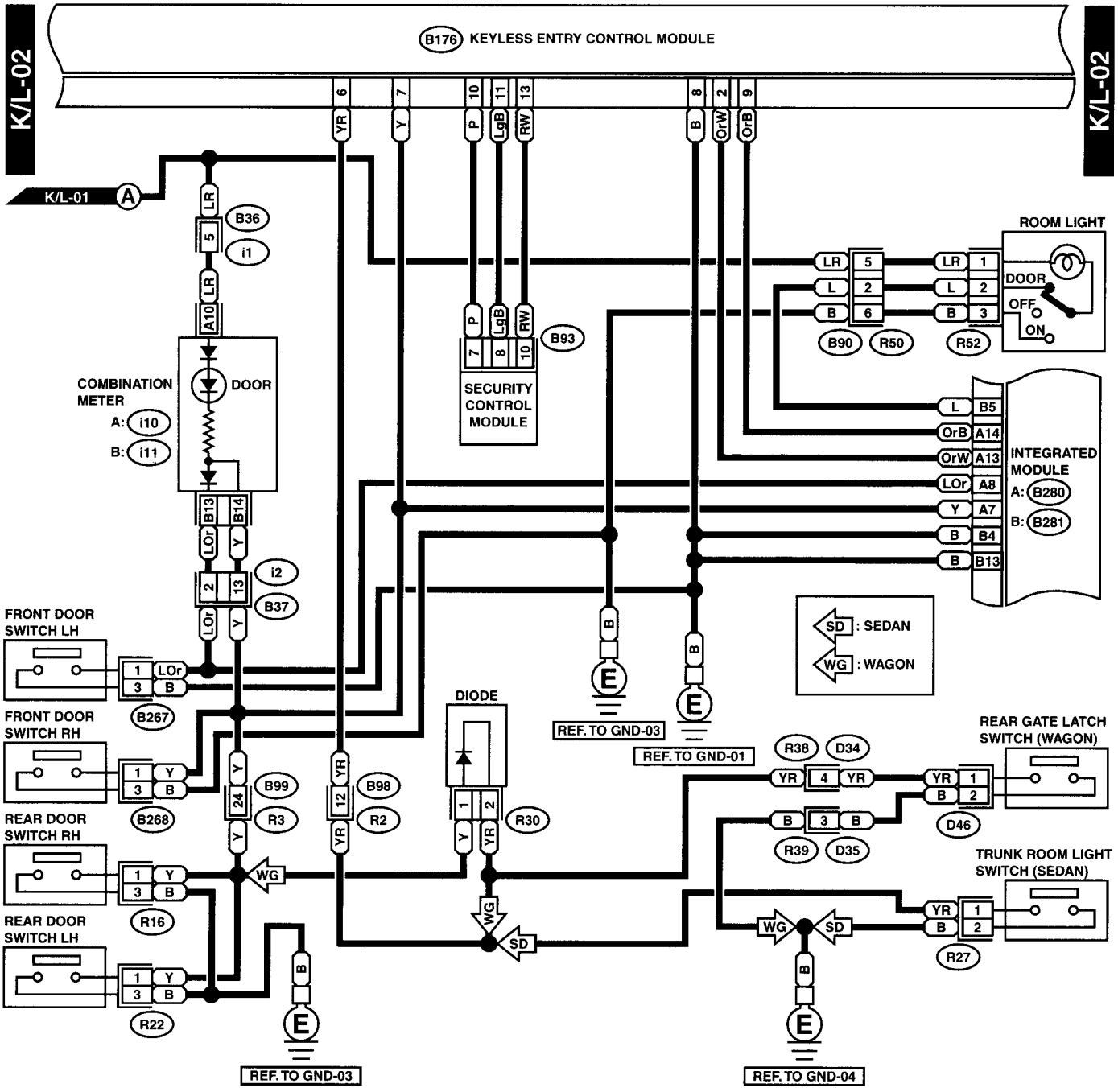
GU74-20

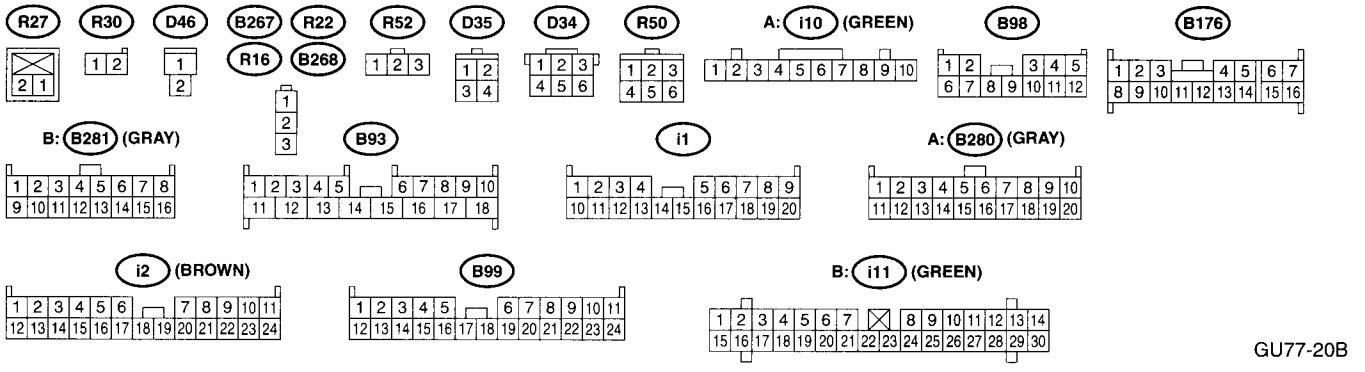
23.Keyless Entry System

A: SCHEMATIC

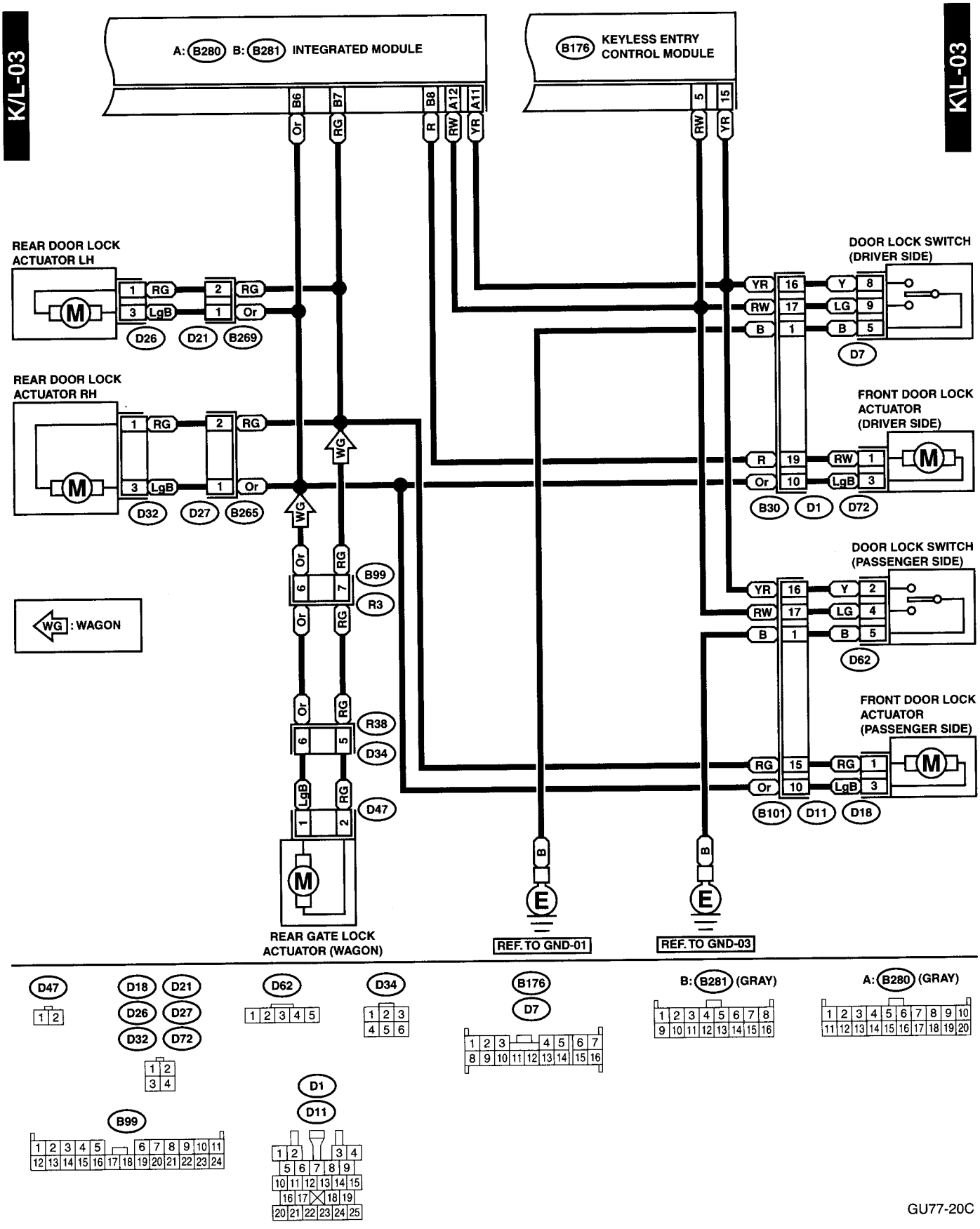


GU77-20A


B176 KEYLESS ENTRY CONTROL MODULE
K/L-02
K/L-01
A
B36
i1
COMBINATION METER
DOOR
A: i10
B: i11
B93
SECURITY CONTROL MODULE
ROOM LIGHT
DOOR
OFF
ON
B90
R50
R52
INTEGRATED MODULE
A: B280
B: B281
B5
A14
A13
A8
A7
B4
B13
i2
B37
FRONT DOOR SWITCH LH
B267
FRONT DOOR SWITCH RH
B268
REAR DOOR SWITCH RH
R16
REAR DOOR SWITCH LH
R22
DIODE
R30
B99
R3
B98
R2
REF. TO GND-03
REF. TO GND-01
REF. TO GND-04
SD : SEDAN
WG : WAGON
REAR GATE LATCH SWITCH (WAGON)
R38
D34
D46
R39
D35
TRUNK ROOM LIGHT SWITCH (SEDAN)
R27


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

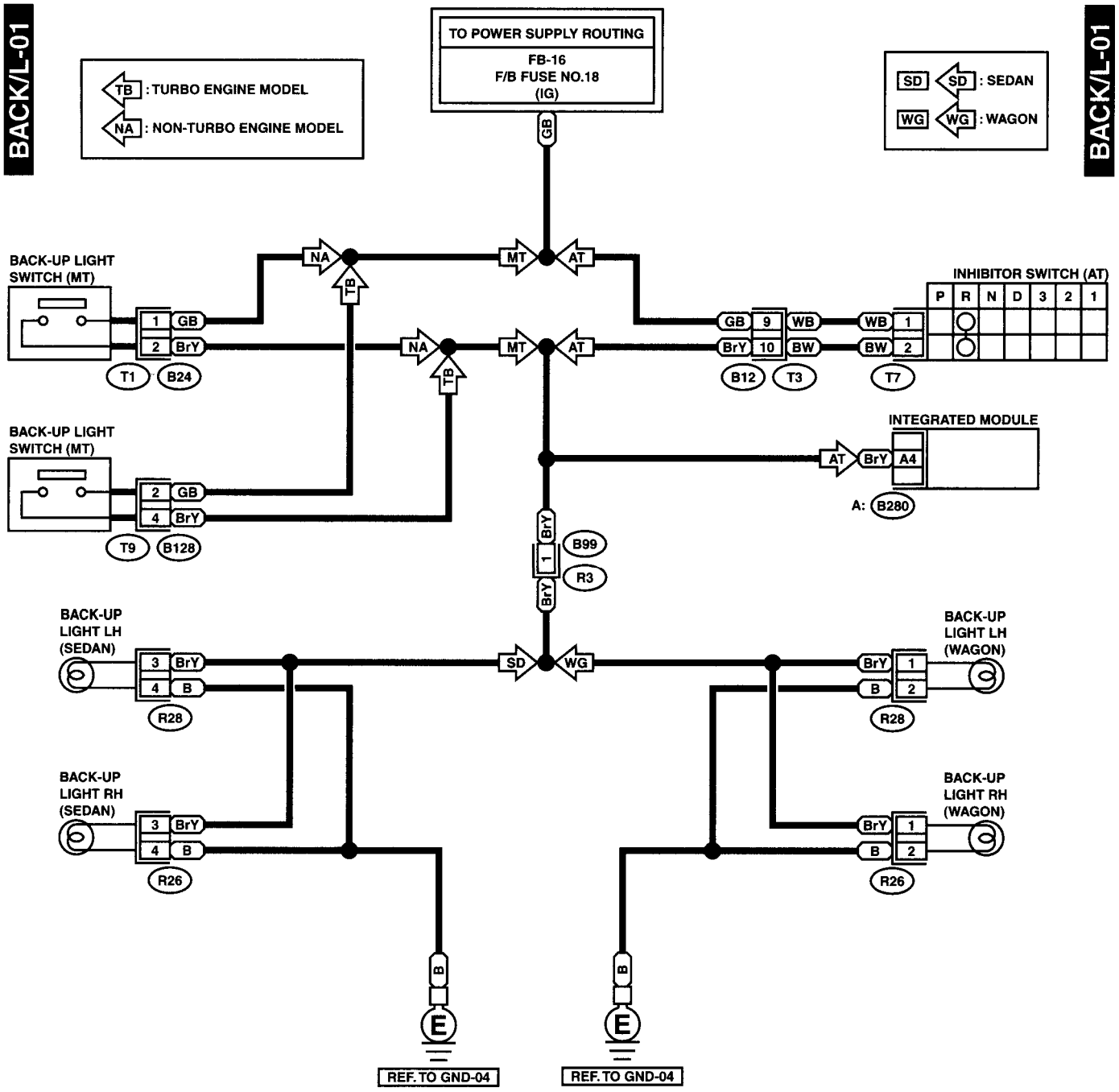
GU77-20B

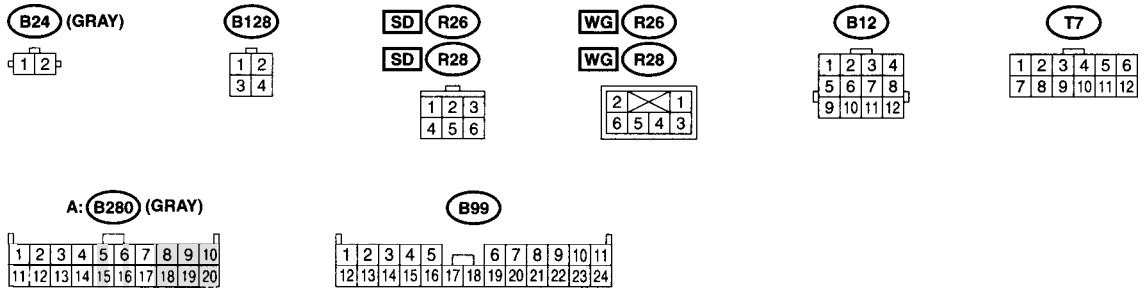

K/L-03
K/L-03
A: B280 B: B281 INTEGRATED MODULE
B176 KEYLESS ENTRY CONTROL MODULE
B6 B7 B8 A12 A11
5 15
Or RG R RW YR
RW YR
REAR DOOR LOCK ACTUATOR LH
1 RG 2 RG
3 LgB 1 Or
D26 D21 B269
REAR DOOR LOCK ACTUATOR RH
1 RG 2 RG
3 LgB 1 Or
D32 D27 B265
WG
WG : WAGON
DOOR LOCK SWITCH (DRIVER SIDE)
YR 16 Y 8
RW 17 LG 9
B 1 B 5
D7
FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
R 19 RW 1
Or 10 LgB 3
B30 D1 D72
DOOR LOCK SWITCH (PASSENGER SIDE)
YR 16 Y 2
RW 17 LG 4
B 1 B 5
D62
FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
RG 15 RG 1
Or 10 LgB 3
B101 D11 D18
B99
R3
R38
D34
D47
REAR GATE LOCK ACTUATOR (WAGON)
REF. TO GND-01
REF. TO GND-03
D47
D18 D21 D26 D27 D32 D72
D62
D34
B176 D7
B: B281 (GRAY)
A: B280 (GRAY)
B99
D1 D11

GU77-20C

24.Back-up Light System

A: SCHEMATIC

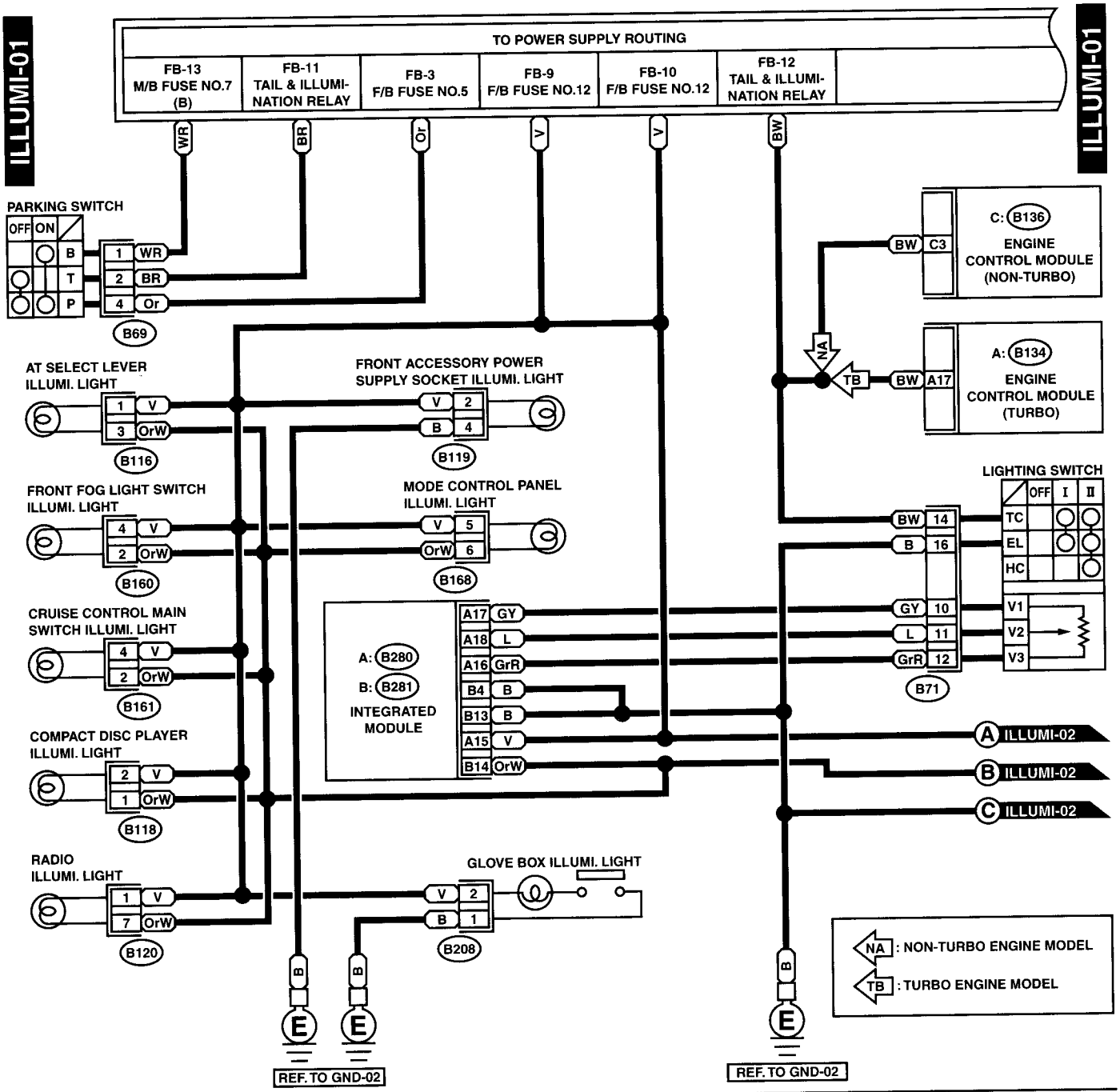


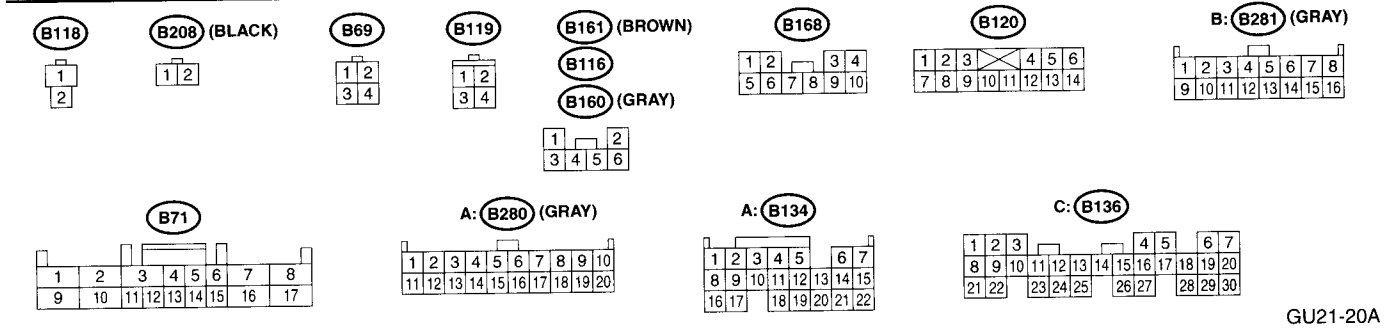


GU29-20

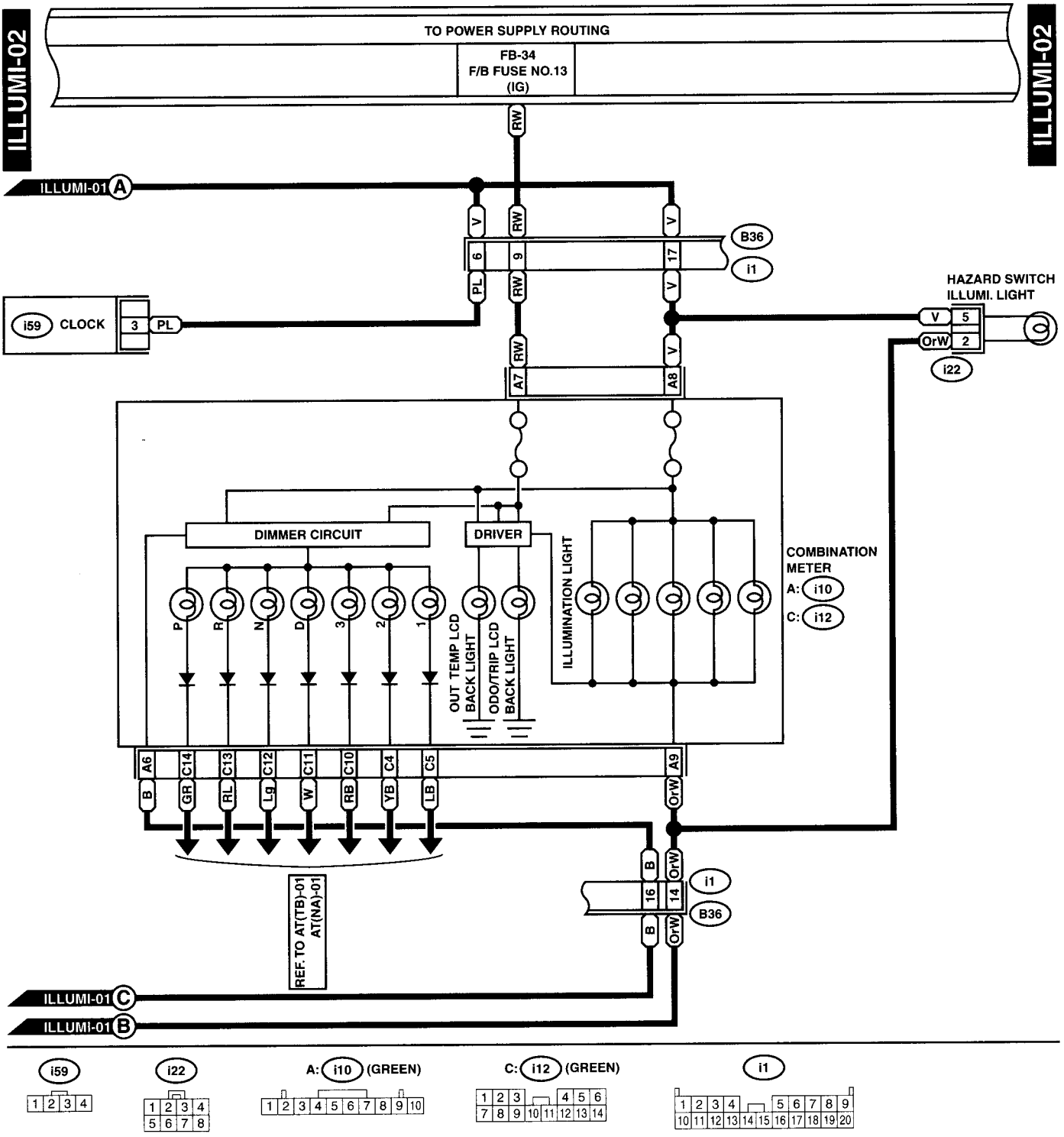
25.Clearance Light and Illumination Light System

A: SCHEMATIC



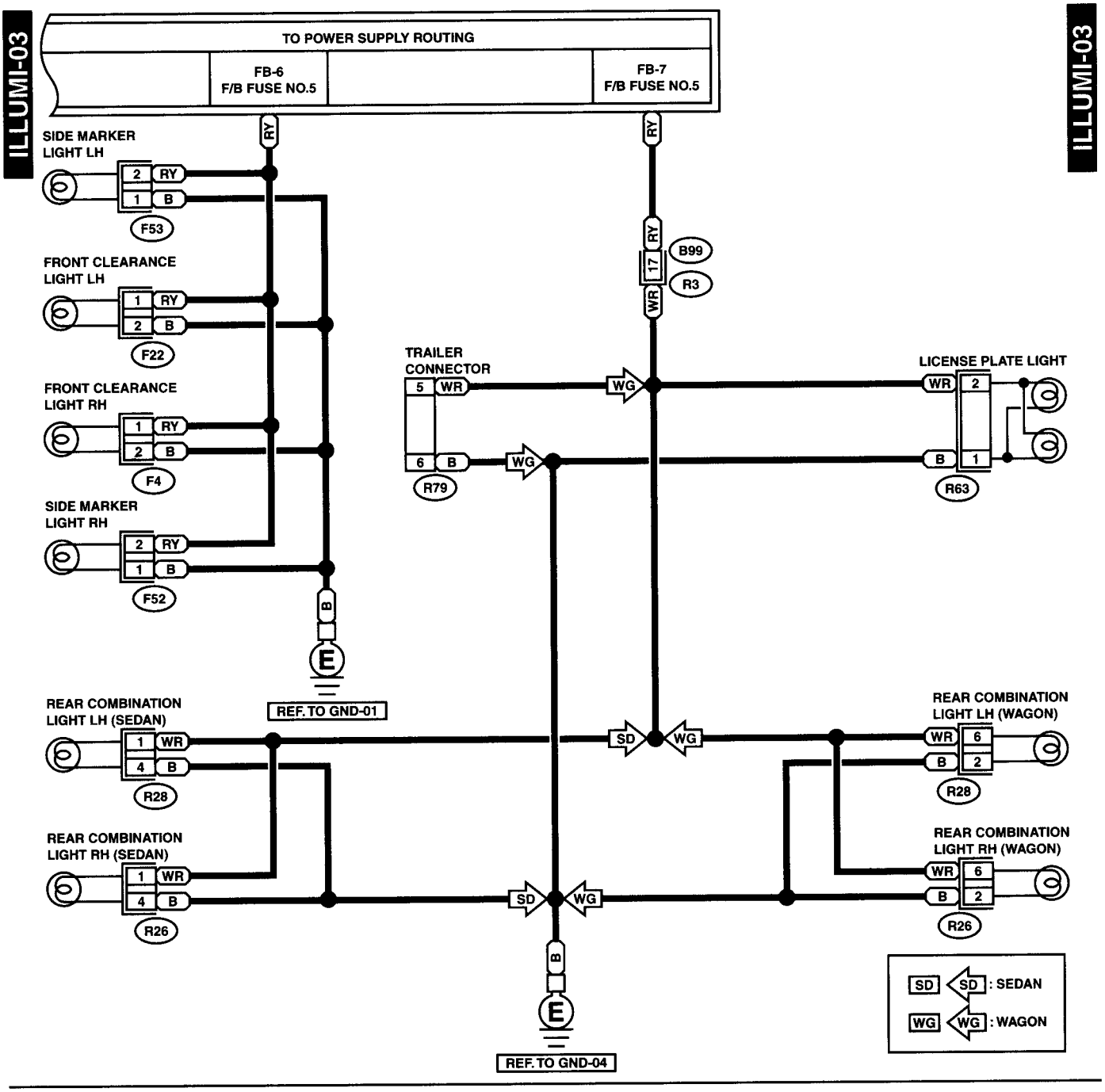


GU21-20A


ILLUMI-02
TO POWER SUPPLY ROUTING
FB-34
F/B FUSE NO.13
(IG)
ILLUMI-02
RW
ILLUMI-01 A
V
RW
V
B36
6
9
17
i1
PL
RW
V
HAZARD SWITCH
ILLUMI. LIGHT
i59 CLOCK
3
PL
V
5
OrW
2
i22
RW
V
A7
A8
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
A6
C14
C13
C12
C11
C10
C4
C5
A9
B
GR
RL
Lg
W
RB
YB
LB
OrW
B
OrW
i1
16
14
B36
B
OrW
REF. TO AT(TB)-01
AT(NA)-01
ILLUMI-01 C
ILLUMI-01 B

i59
1 2 3 4
i22
1 2 3 4
5 6 7 8
A: i10 (GREEN)
1 2 3 4 5 6 7 8 9 10
C: i12 (GREEN)
1 2 3 4 5 6
7 8 9 10 11 12 13 14
i1
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20

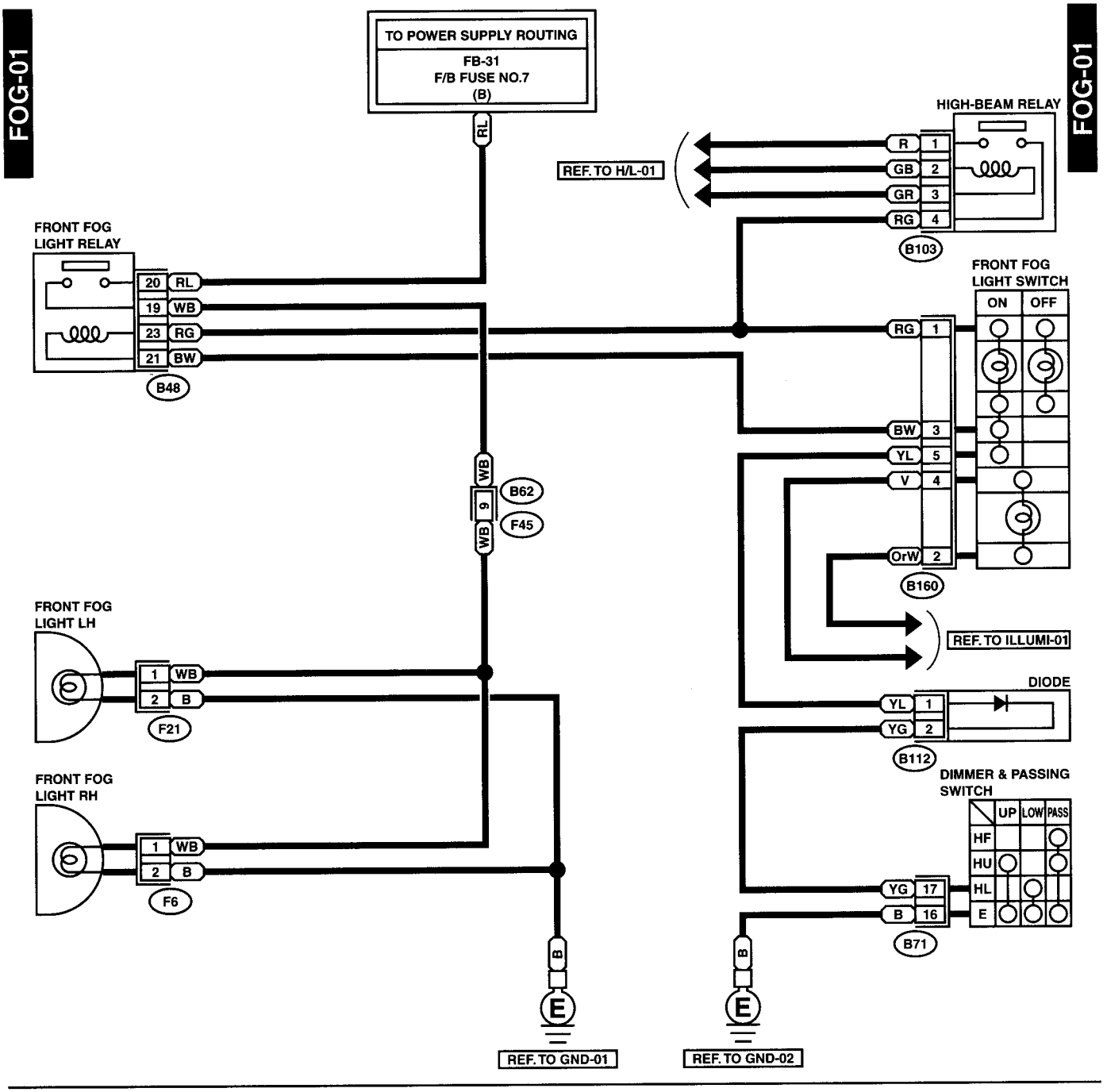
GU21-20B

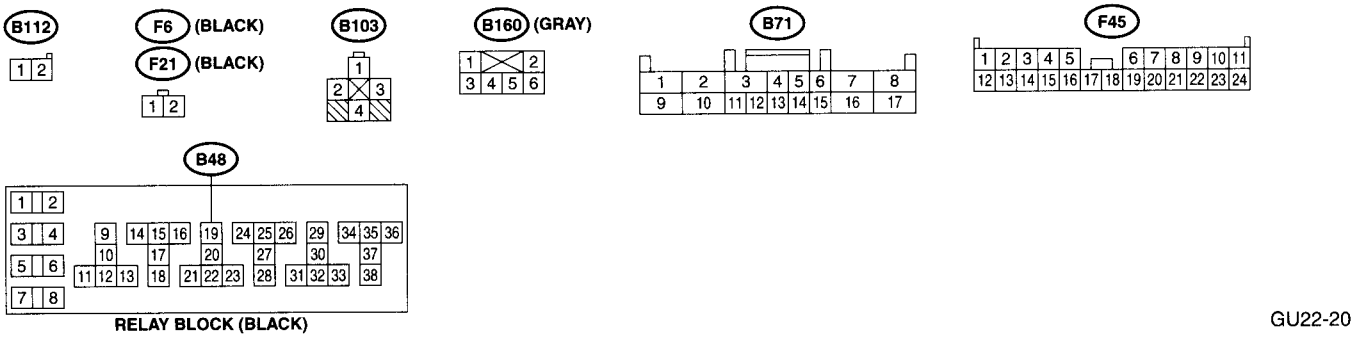

ILLUMI-03
ILLUMI-03
TO POWER SUPPLY ROUTING
FB-6
F/B FUSE NO.5
FB-7
F/B FUSE NO.5
SIDE MARKER
LIGHT LH
FRONT CLEARANCE
LIGHT LH
FRONT CLEARANCE
LIGHT RH
SIDE MARKER
LIGHT RH
TRAILER
CONNECTOR
LICENSE PLATE LIGHT
REAR COMBINATION
LIGHT LH (SEDAN)
REAR COMBINATION
LIGHT RH (SEDAN)
REAR COMBINATION
LIGHT LH (WAGON)
REAR COMBINATION
LIGHT RH (WAGON)
REF. TO GND-01
REF. TO GND-04
SD : SEDAN
WG : WAGON
F52
F53
R63 (BLACK)
F4 (GRAY)
F22 (GRAY)
SD R26
SD R28
WG R26
WG R28
R79
B99

GU21-20C

26.Front Fog Light System

A: SCHEMATIC

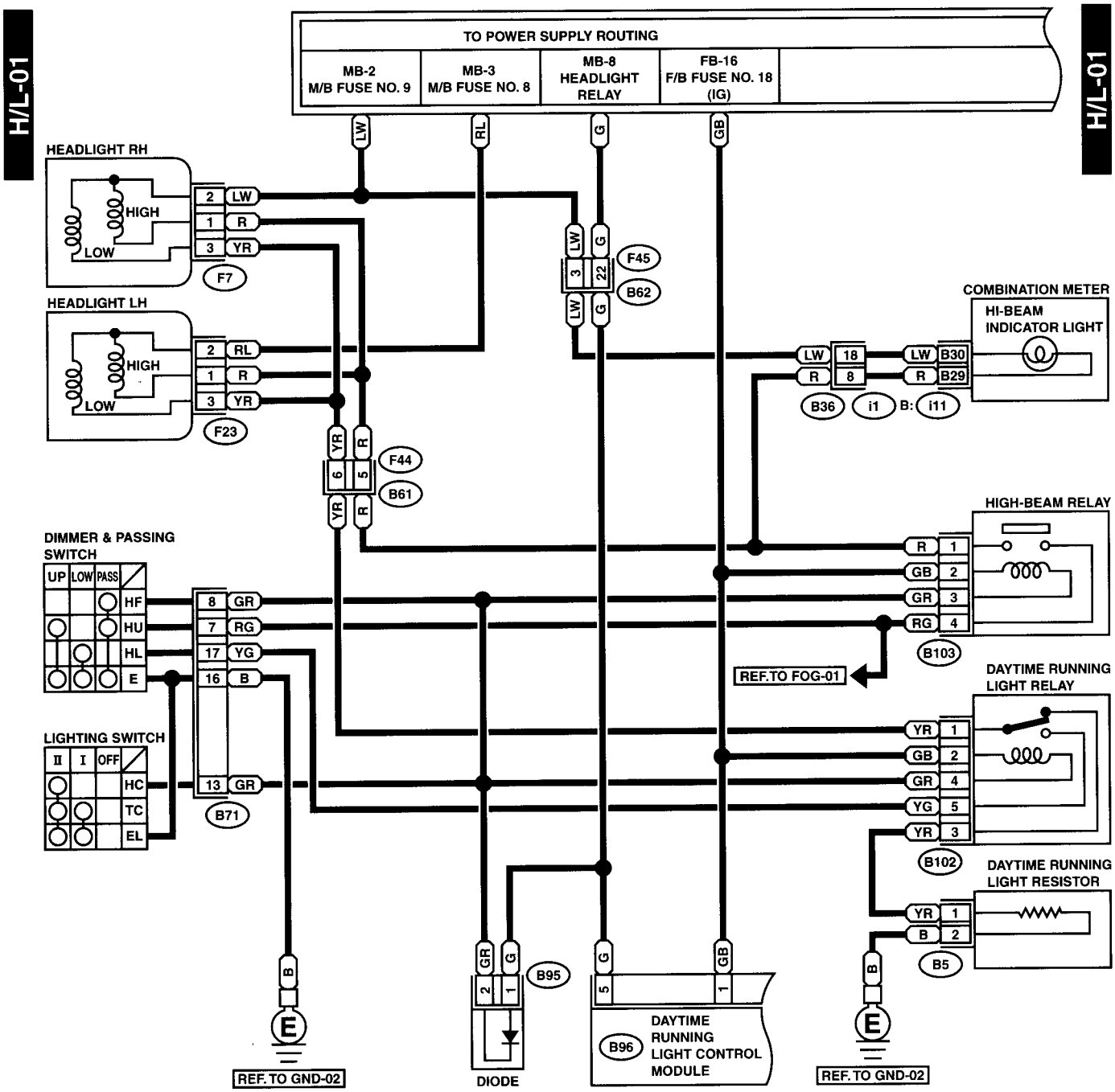


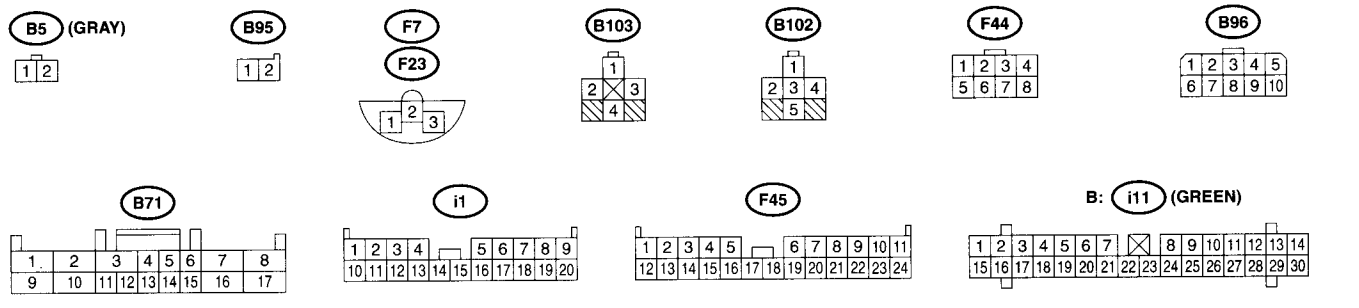


GU22-20

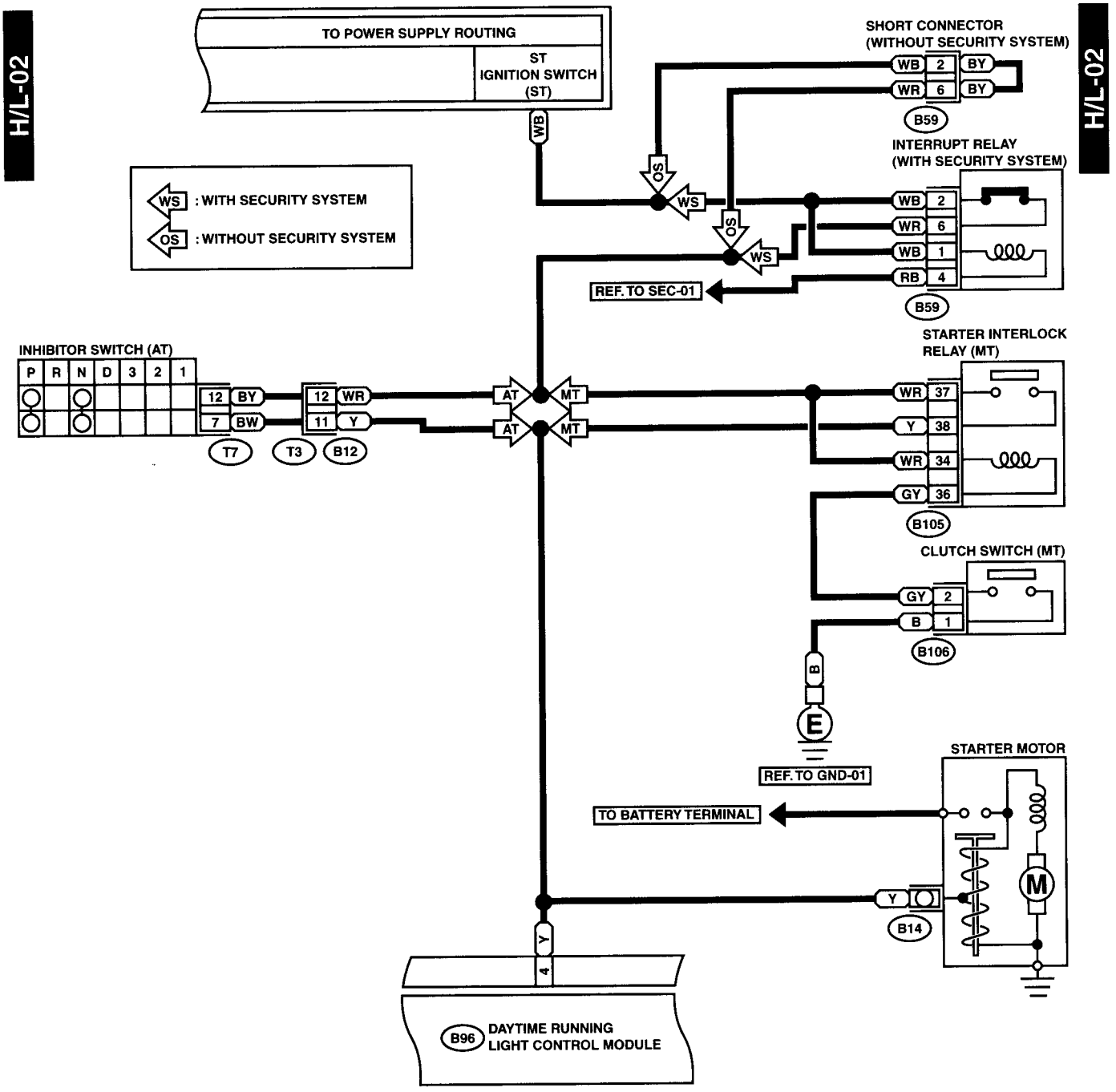
27.Headlight System

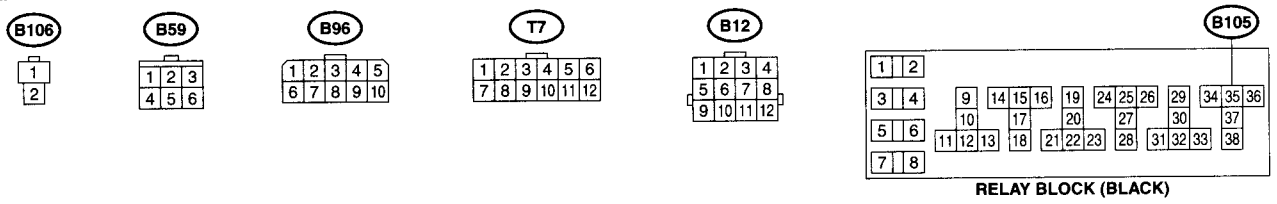
A: SCHEMATIC





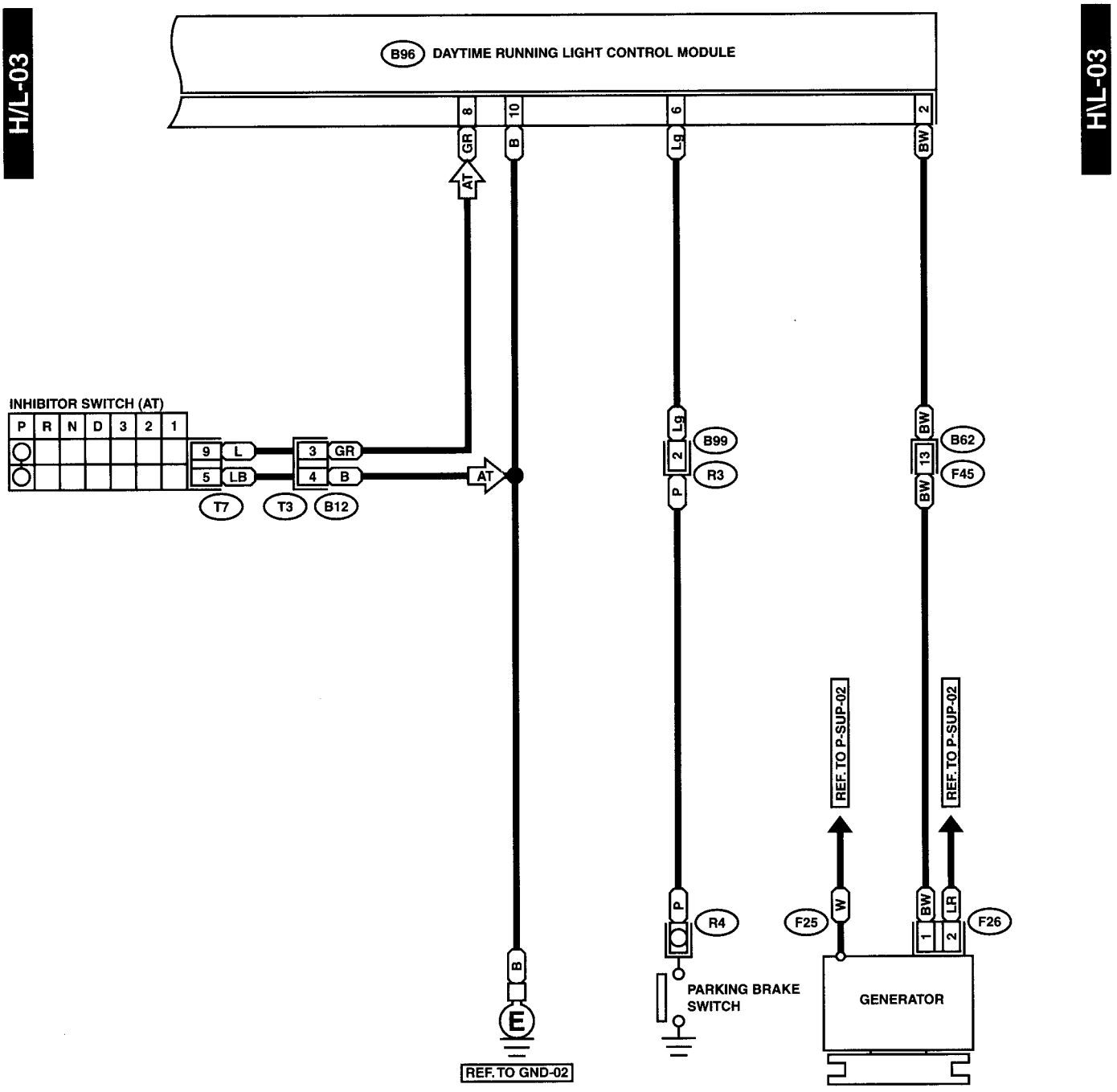
GU18-20A

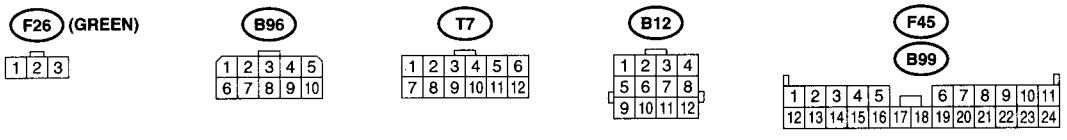

H/L-02
H/L-02
TO POWER SUPPLY ROUTING
ST
IGNITION SWITCH (ST)
WB
WS : WITH SECURITY SYSTEM
OS : WITHOUT SECURITY SYSTEM
SHORT CONNECTOR (WITHOUT SECURITY SYSTEM)
WB 2 BY
WR 6 BY
B59
INTERRUPT RELAY (WITH SECURITY SYSTEM)
WB 2
WR 6
WB 1
RB 4
B59
REF. TO SEC-01
INHIBITOR SWITCH (AT)
P R N D 3 2 1
12 BY
7 BW
T7
12 WR
11 Y
T3
B12
AT
MT
AT
MT
STARTER INTERLOCK RELAY (MT)
WR 37
Y 38
WR 34
GY 36
B105
CLUTCH SWITCH (MT)
GY 2
B 1
B106
B
E
REF. TO GND-01
STARTER MOTOR
TO BATTERY TERMINAL
M
Y
B14
Y
4
B96
DAYTIME RUNNING LIGHT CONTROL MODULE


B106
B59
B96
T7
B12
B105
RELAY BLOCK (BLACK)

GU18-20B

H/L-03

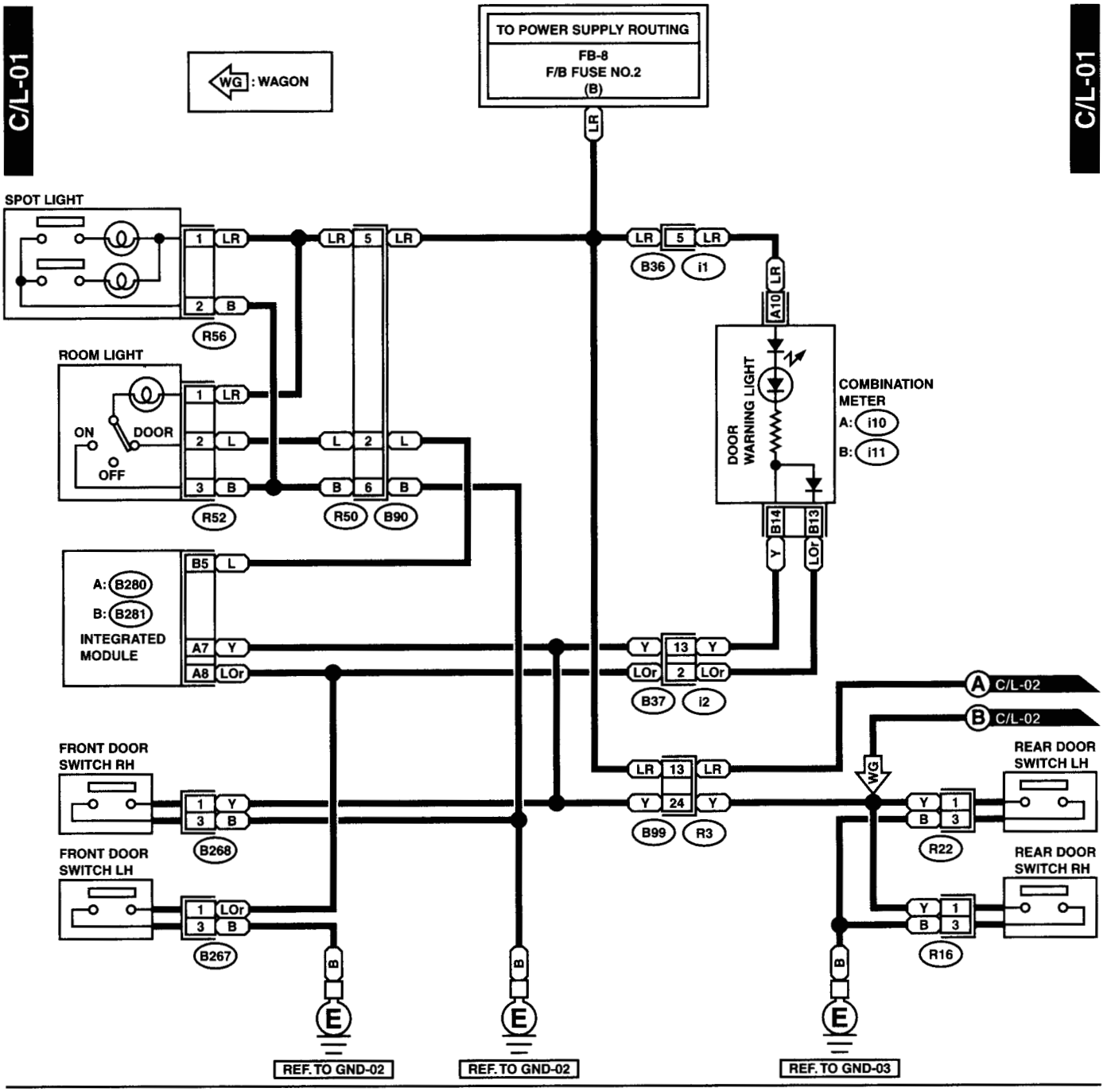


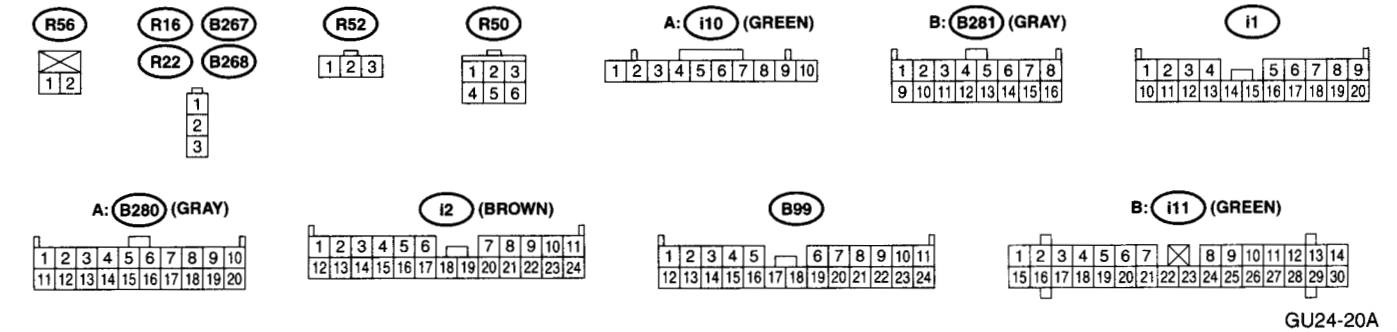


GU18-20C

28.In Compartment Light System

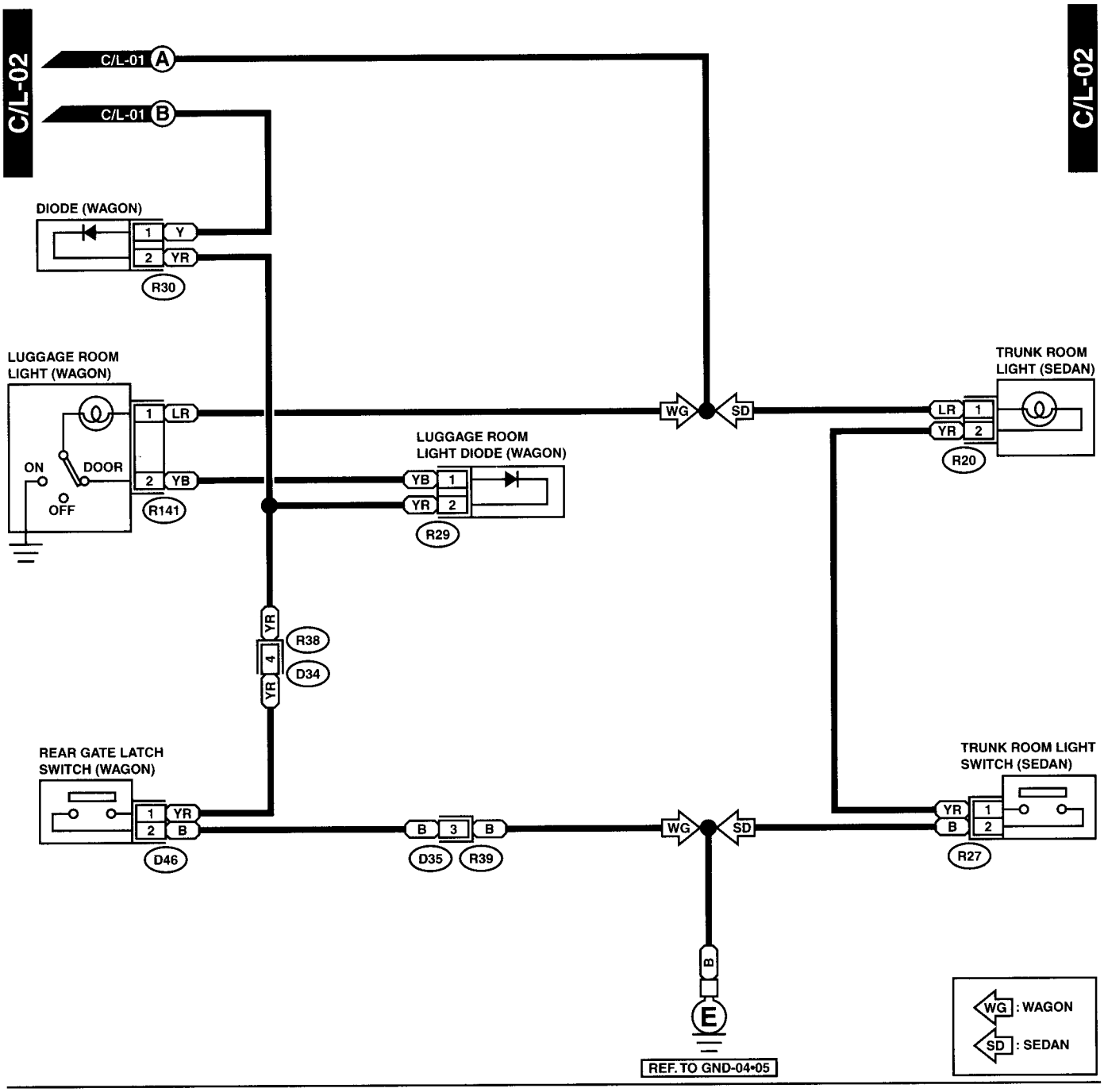
A: SCHEMATIC





GU24-20A

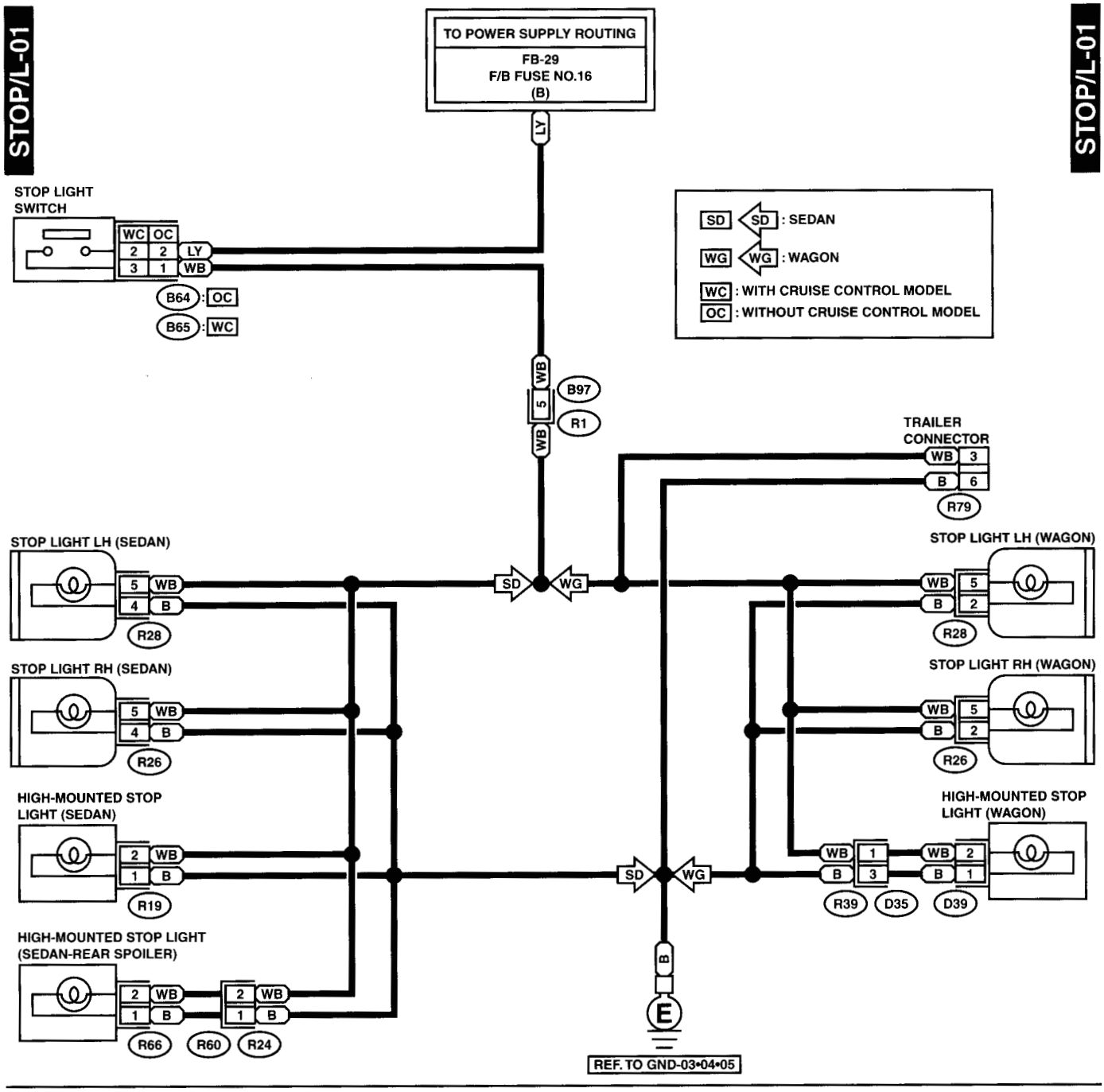
IN COMPARTMENT LIGHT SYSTEM



GU24-20B

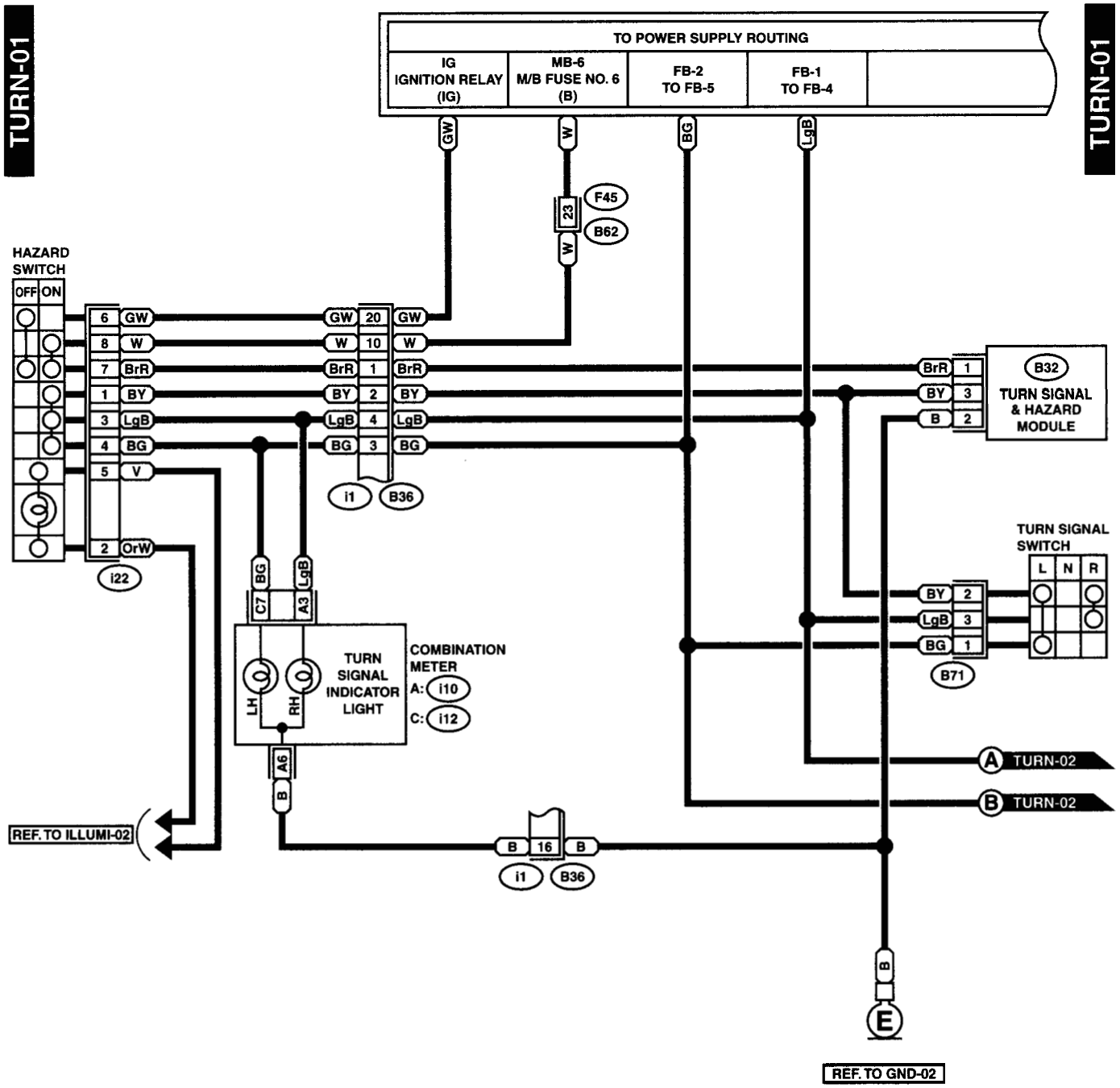
29.Stop Light System

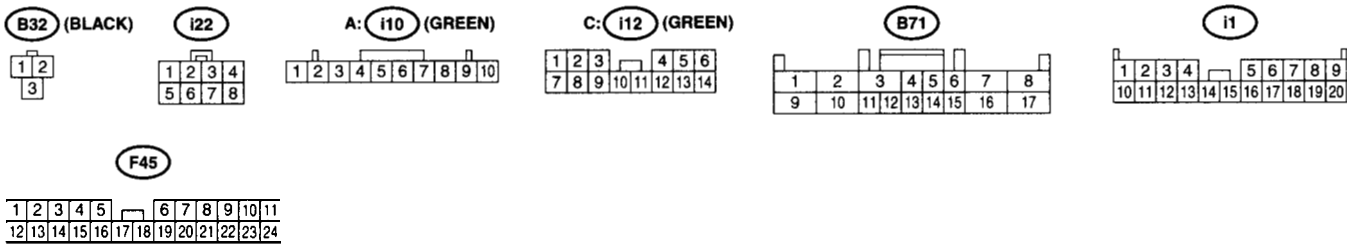
A: SCHEMATIC



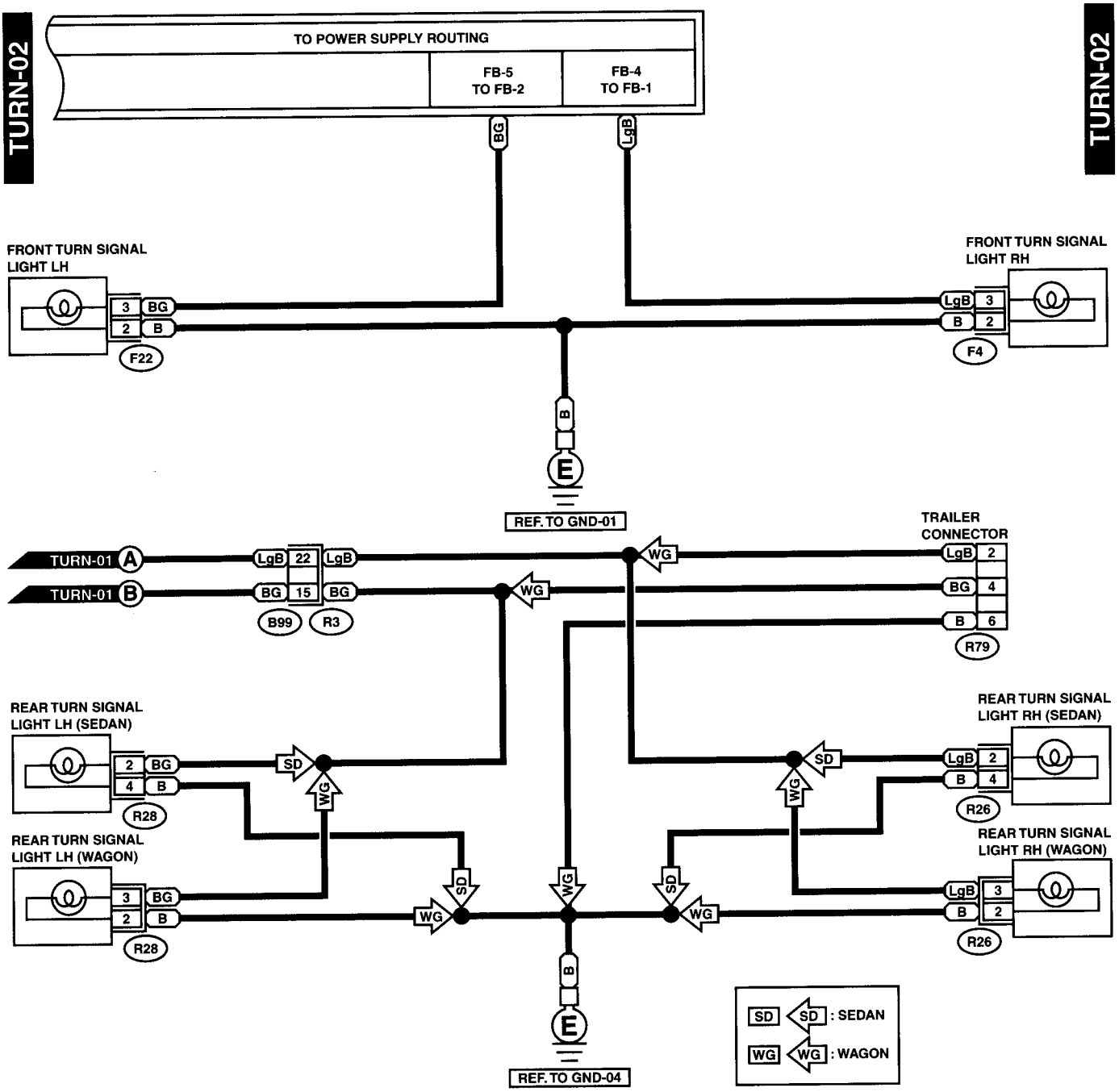
30.Turn Signal Light and Hazard Light System

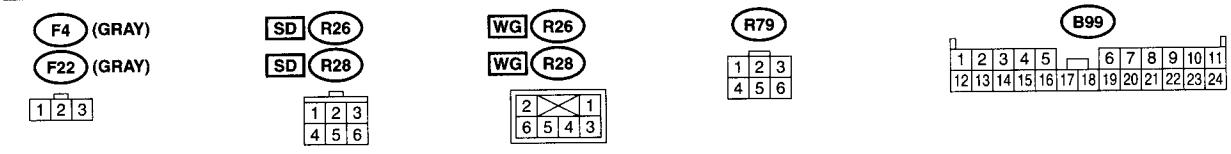
A: SCHEMATIC





GU26-20A

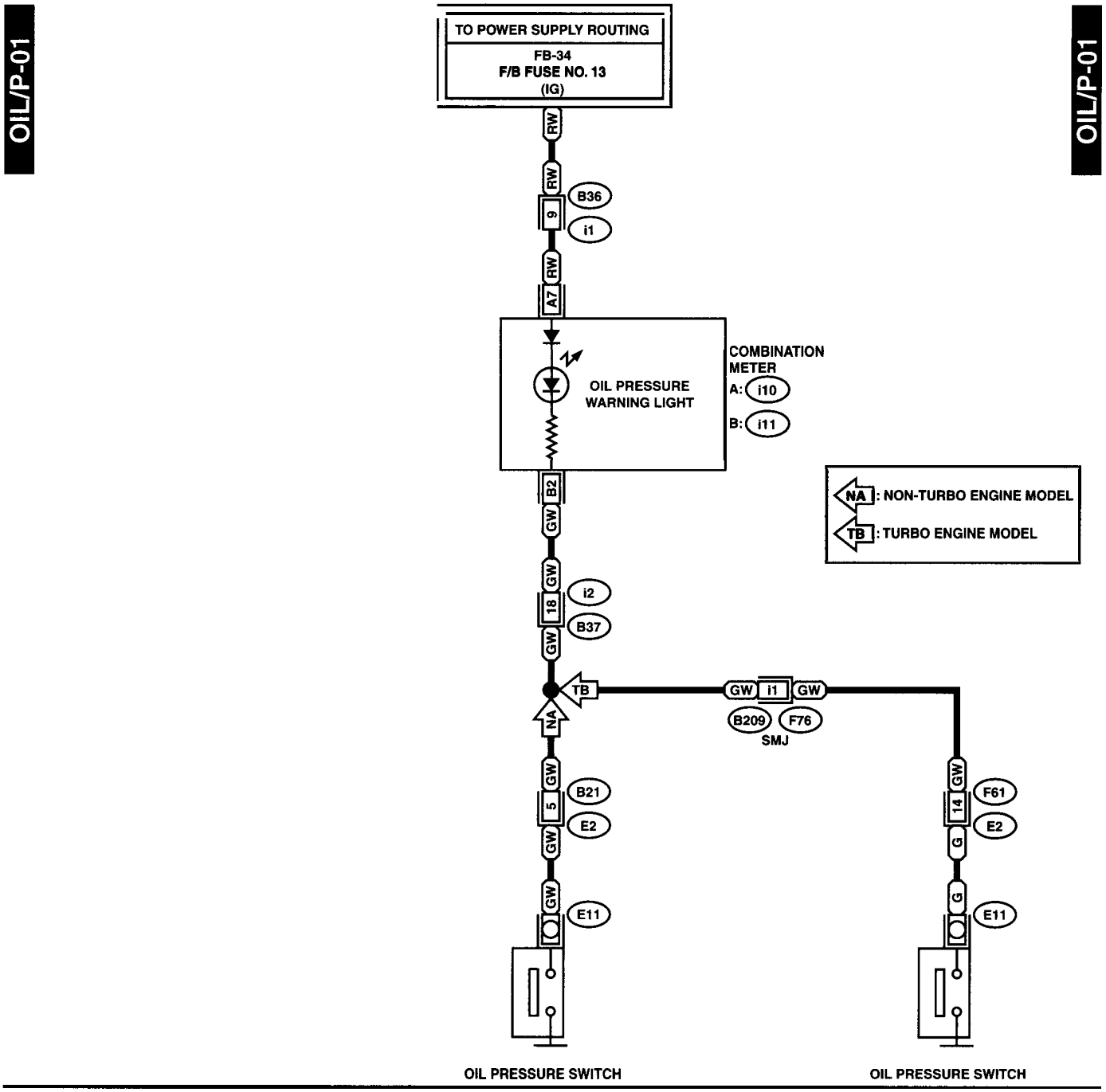

TURN-02
TO POWER SUPPLY ROUTING
FB-5
TO FB-2
FB-4
TO FB-1
BG
LgB
FRONT TURN SIGNAL
LIGHT LH
3 BG
2 B
F22
FRONT TURN SIGNAL
LIGHT RH
LgB 3
B 2
F4
B
E
REF. TO GND-01
TRAILER
CONNECTOR
TURN-01 A
TURN-01 B
LgB 22 LgB
BG 15 BG
B99
R3
WG
LgB 2
BG 4
B 6
R79
REAR TURN SIGNAL
LIGHT LH (SEDAN)
2 BG
4 B
R28
SD
WG
REAR TURN SIGNAL
LIGHT RH (SEDAN)
LgB 2
B 4
R26
REAR TURN SIGNAL
LIGHT LH (WAGON)
3 BG
2 B
R28
REAR TURN SIGNAL
LIGHT RH (WAGON)
LgB 3
B 2
R26
REF. TO GND-04
SD : SEDAN
WG : WAGON

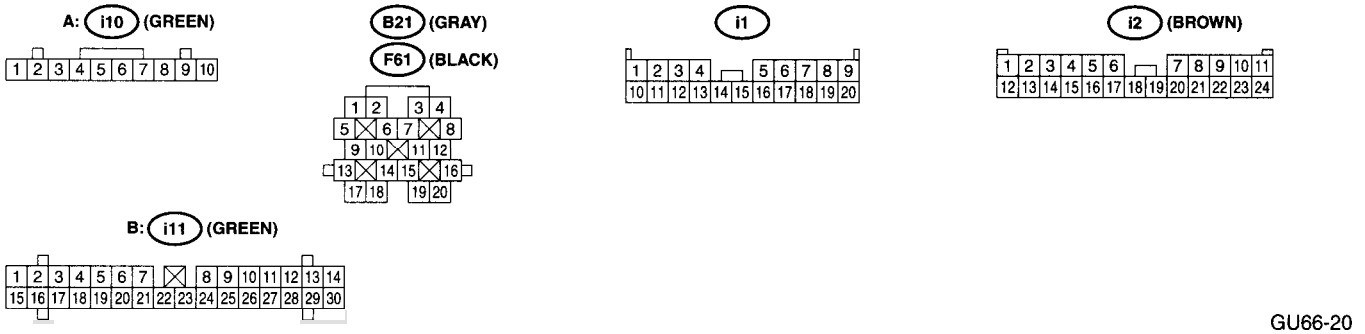

F4 (GRAY)
F22 (GRAY)
SD R26
SD R28
WG R26
WG R28
R79
B99

GU26-20B

31.Oil Pressure Warning Light System

A: SCHEMATIC



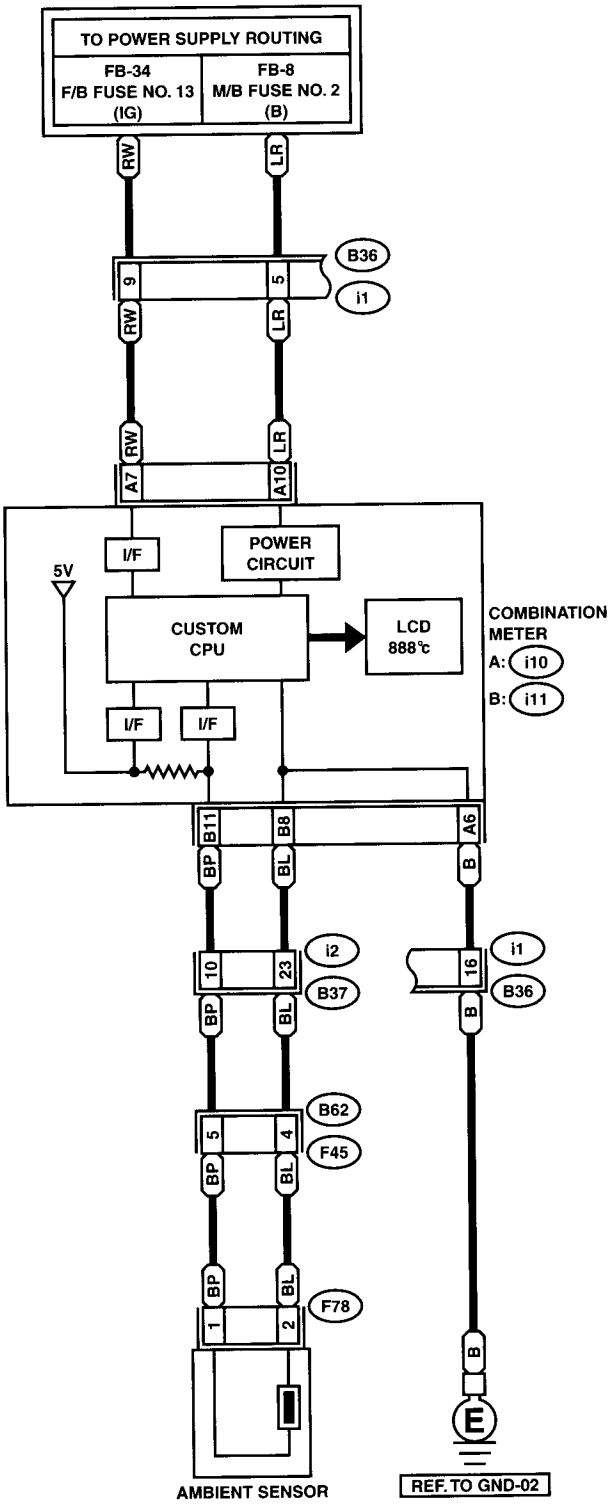


GU66-20

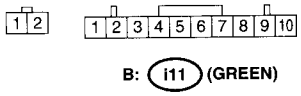
32. Outside Temperature Display System

A: SCHEMATIC

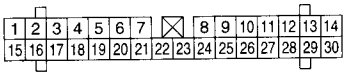
O/TEMP-01



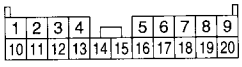
F78 (BLACK) A: i10 (GREEN)



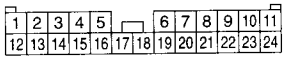
B: i11 (GREEN)



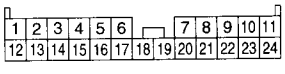
i1



F45



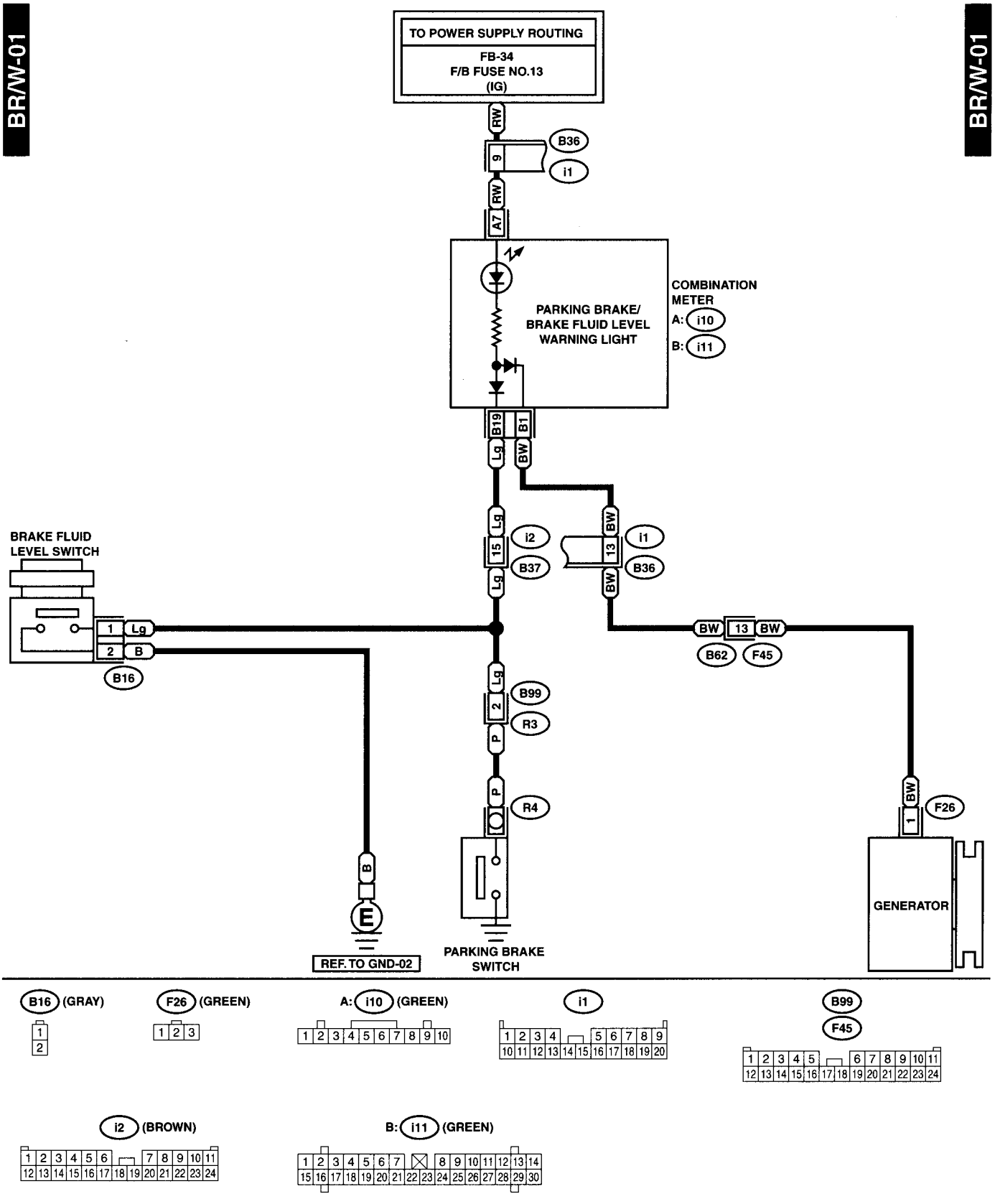
i2 (BROWN)



GU96-20

33.Parking Brake and Brake Fluid Level Warning System

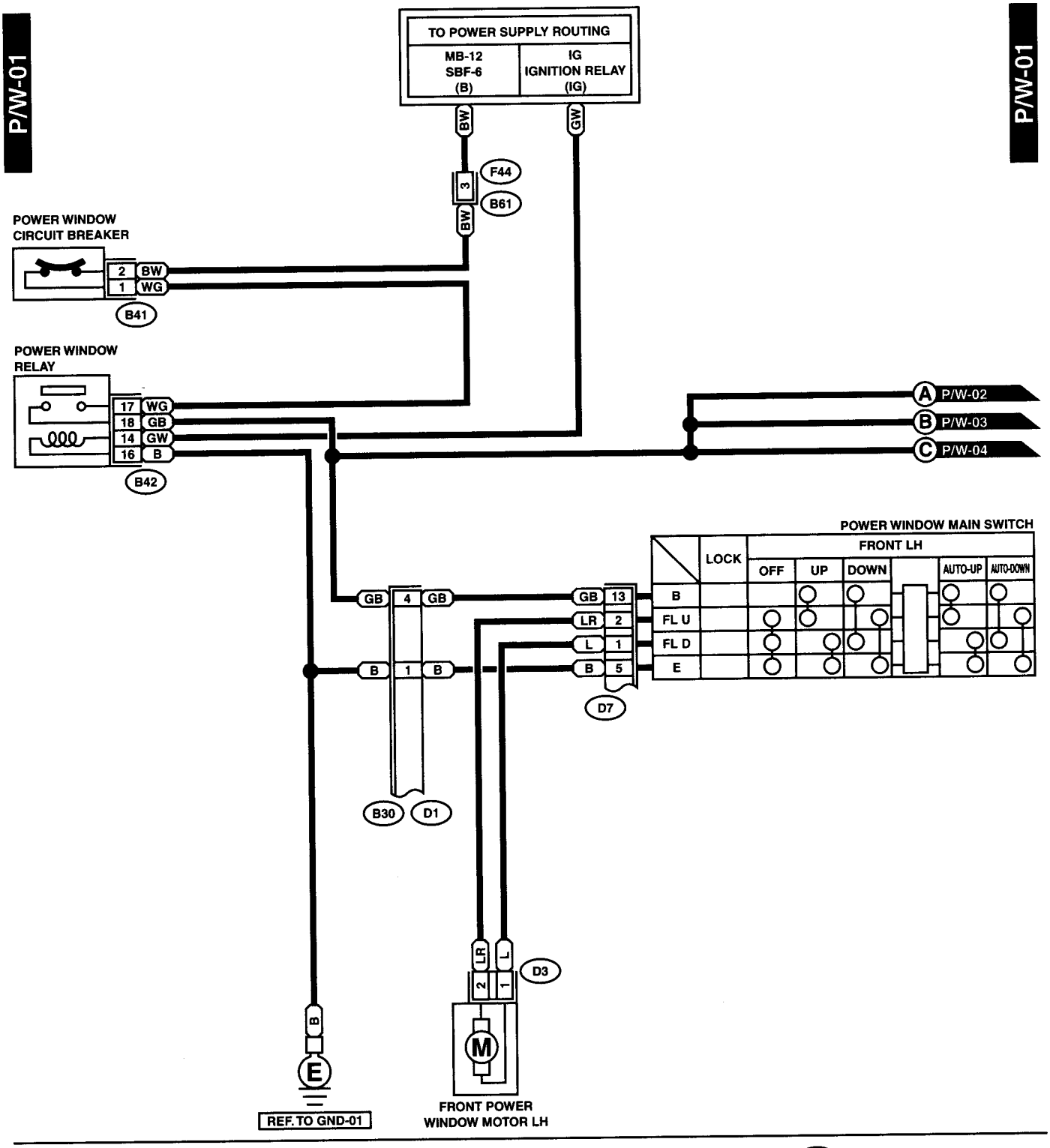
A: SCHEMATIC

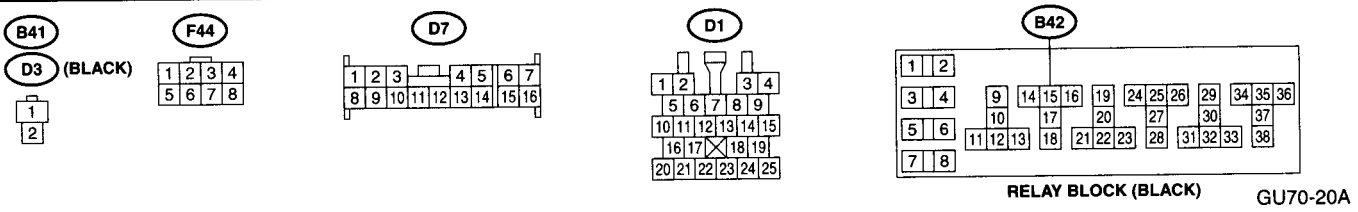


GU60-20

34.Power Window System

A: SCHEMATIC

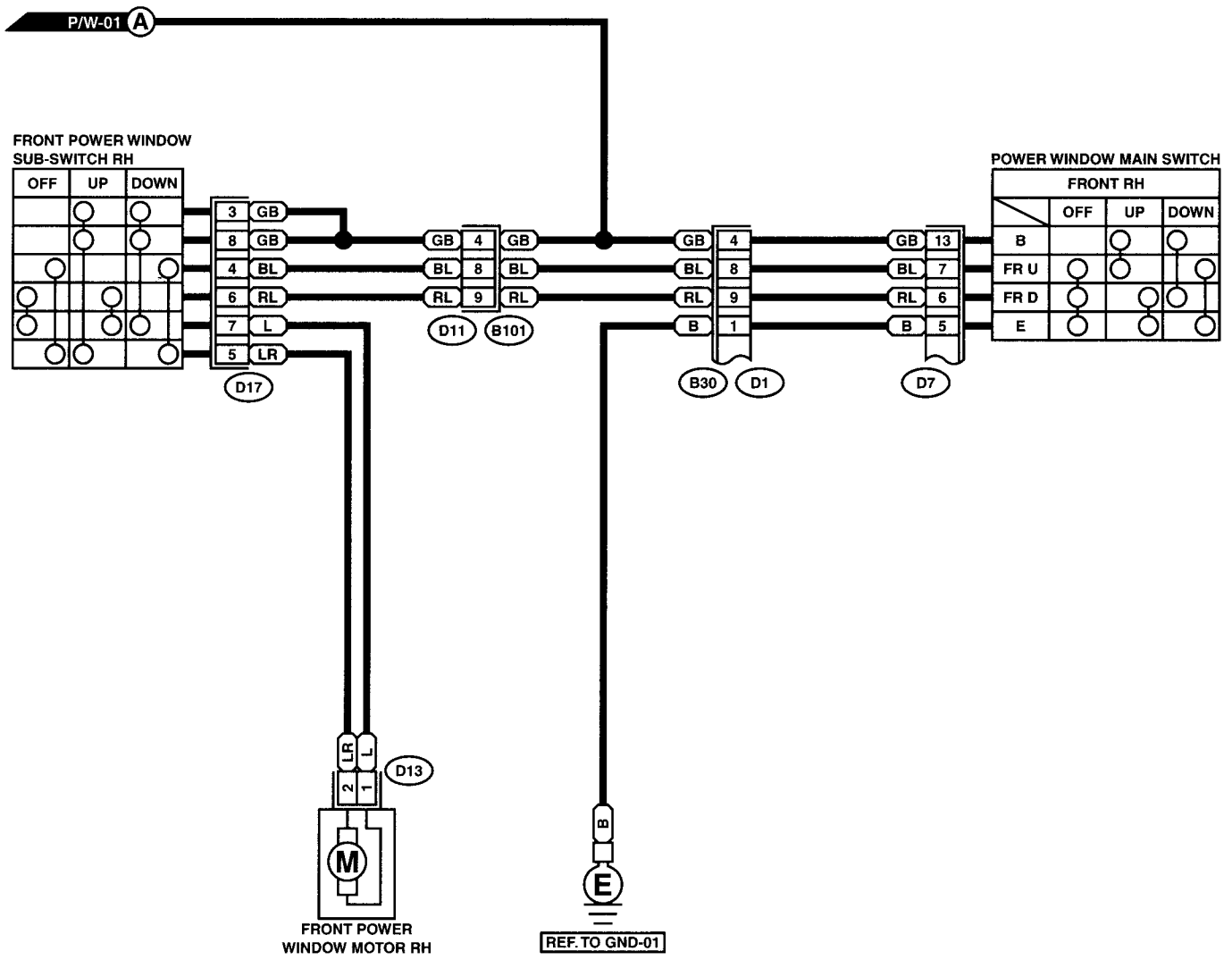


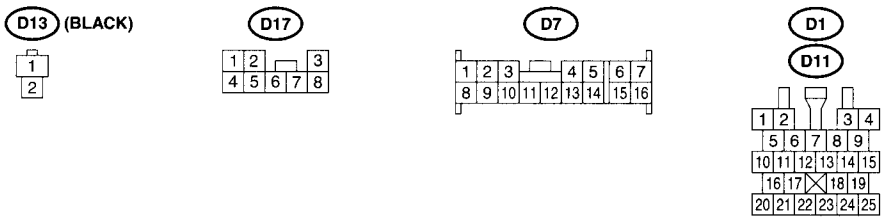


GU70-20A

P/W-02

P/W-02

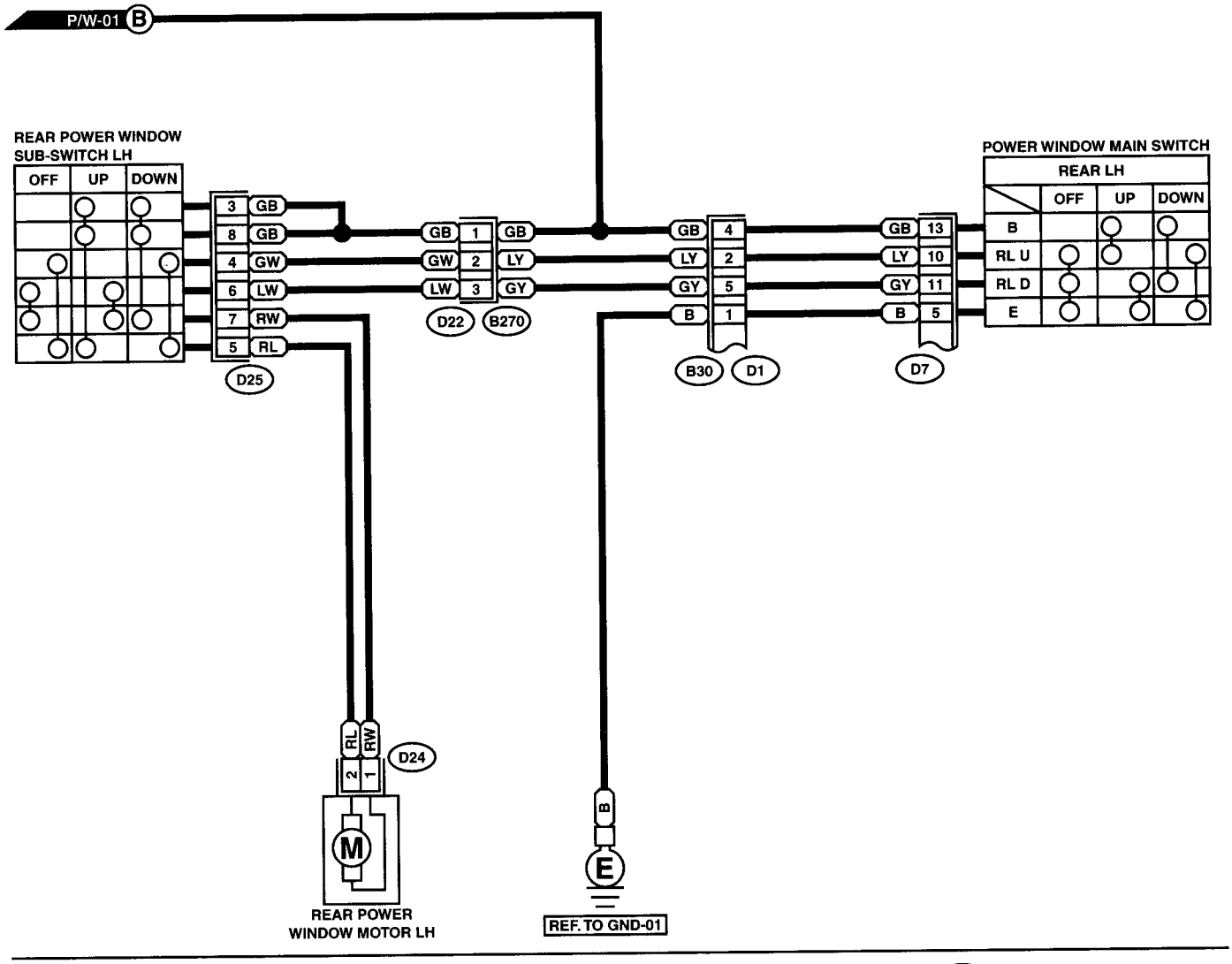


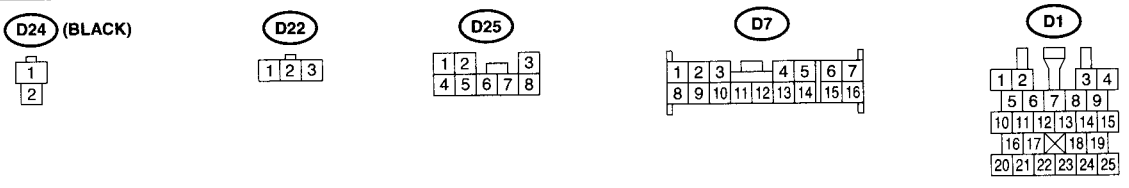


GU70-20B

P/W-03

P/W-03

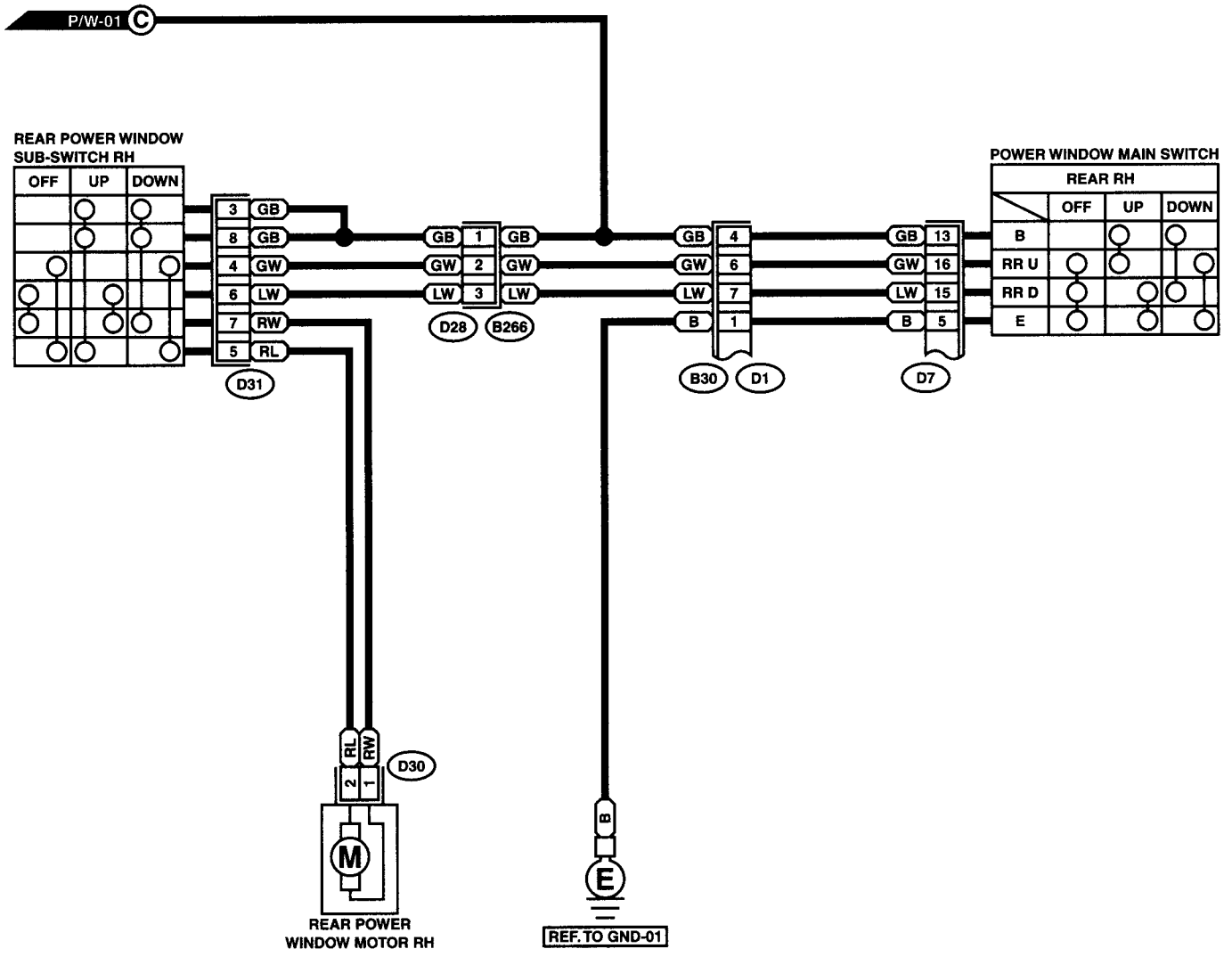


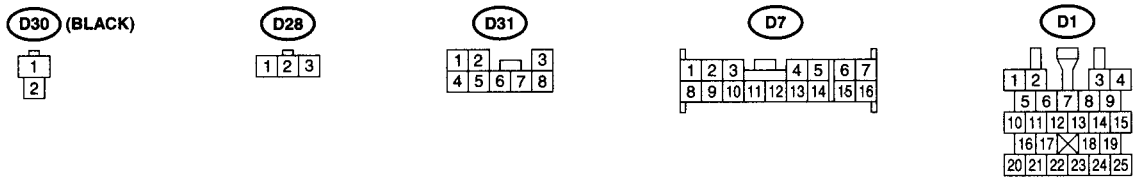


GU70-20C

P/W-04

P/W-04



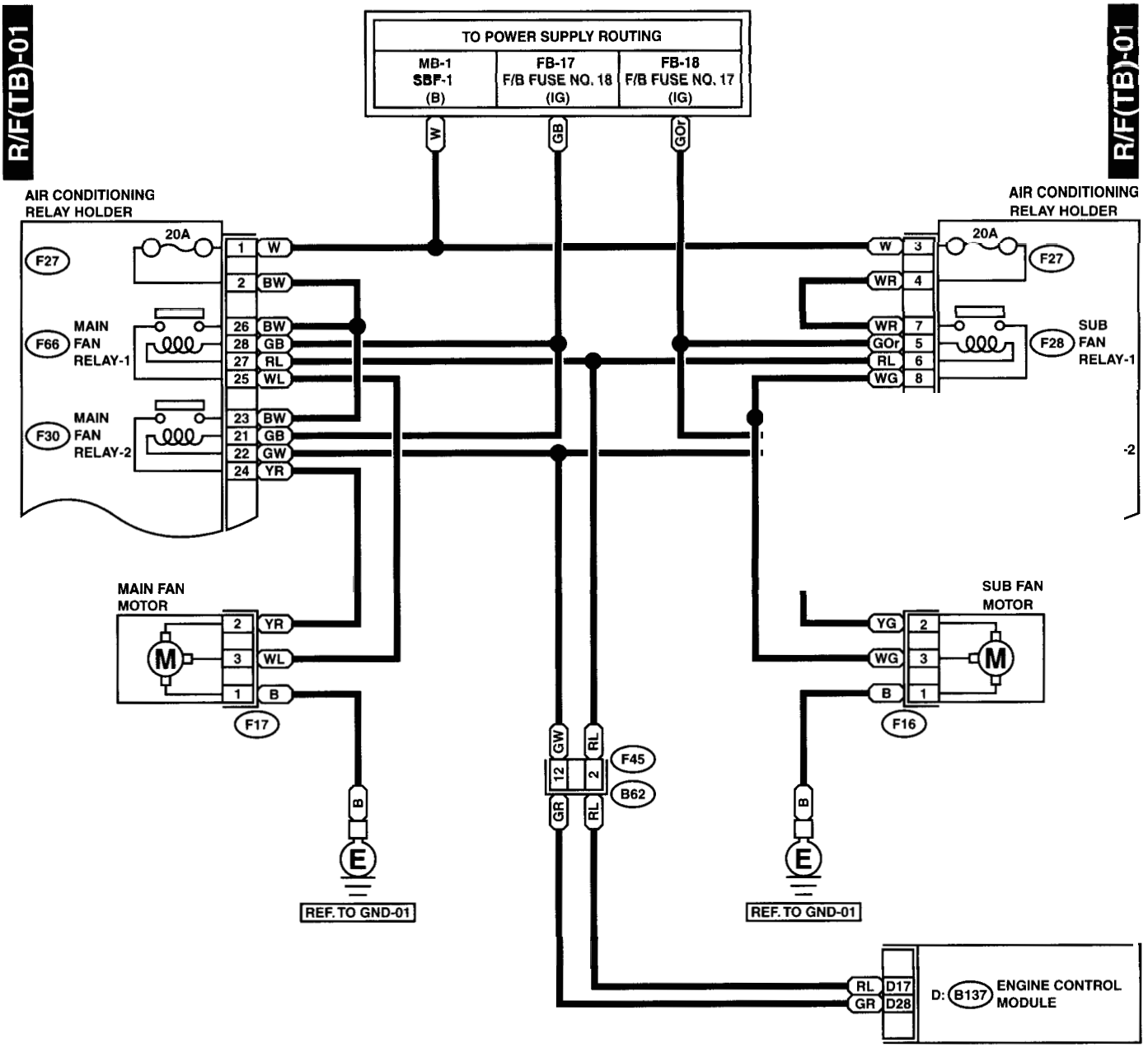


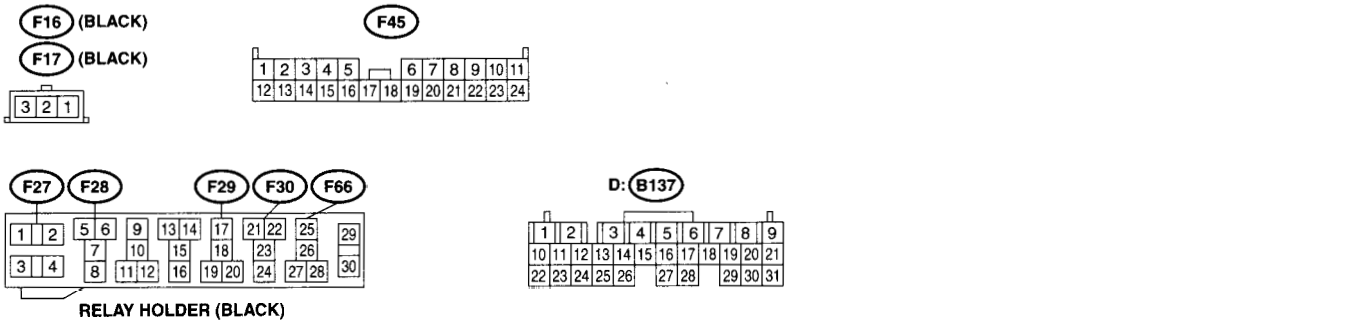
GU70-20D

35.Radiator Fan System

A: SCHEMATIC

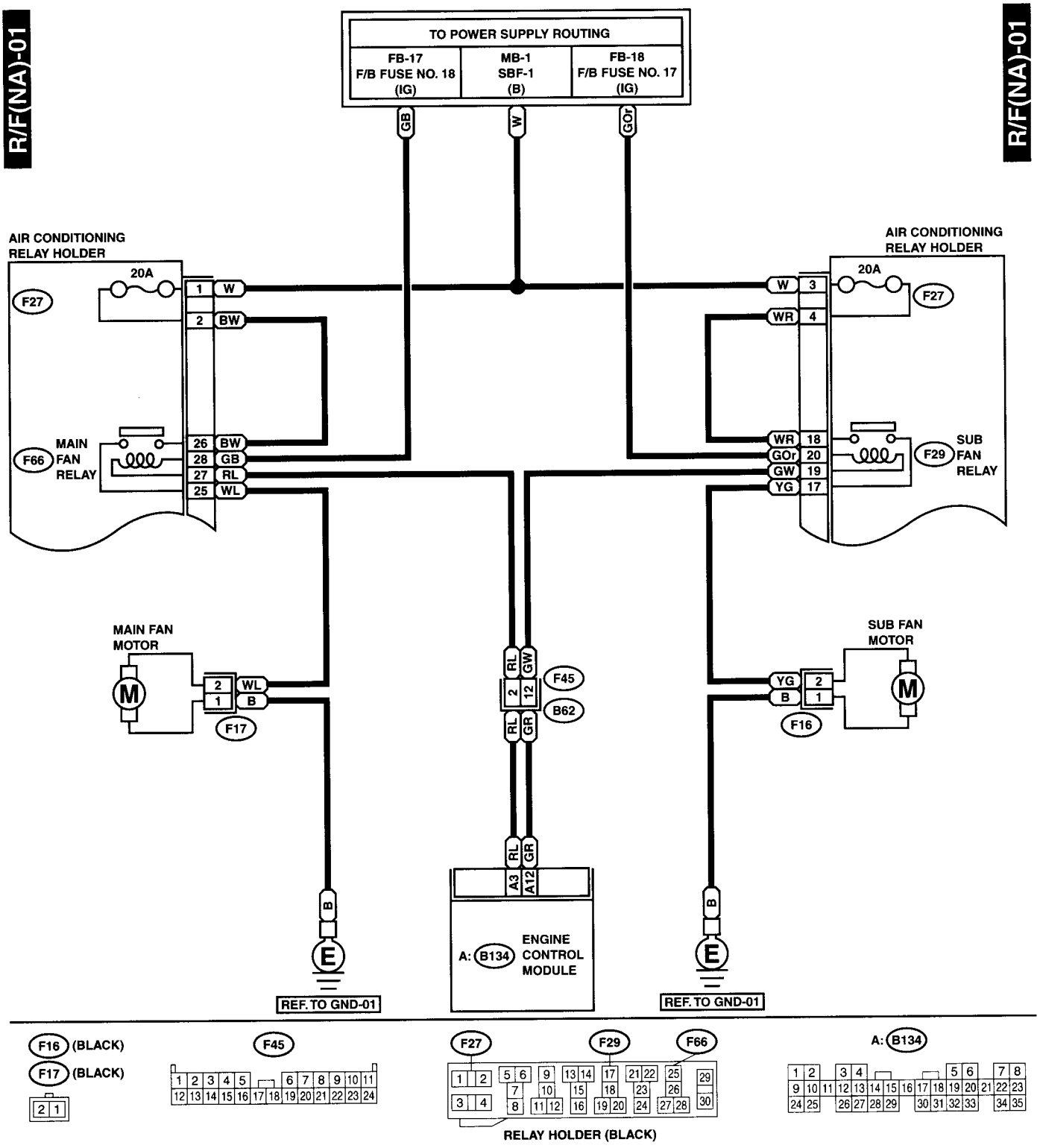
1. TURBO ENGINE MODEL





GU14-20

2. NON-TURBO ENGINE MODEL

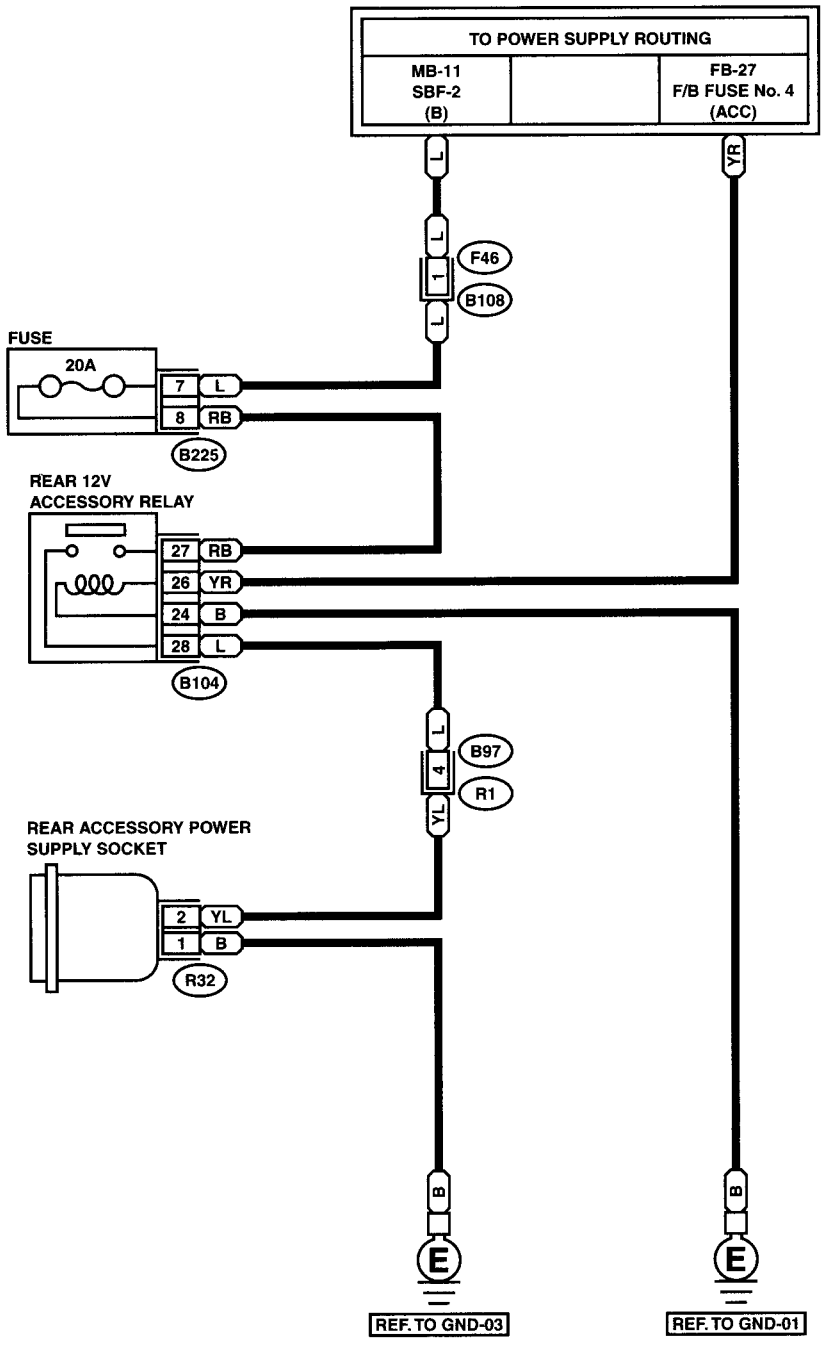


GU14-21

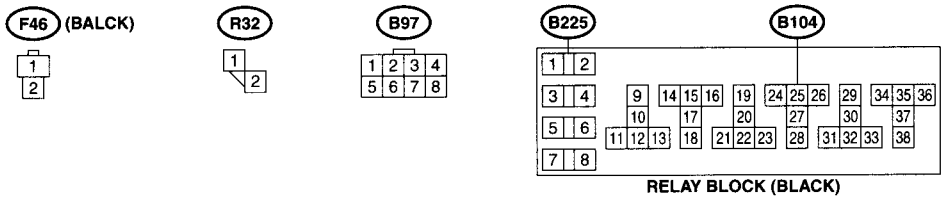
36.Rear Accessory Power Supply System

A: SCHEMATIC

RAPS-01



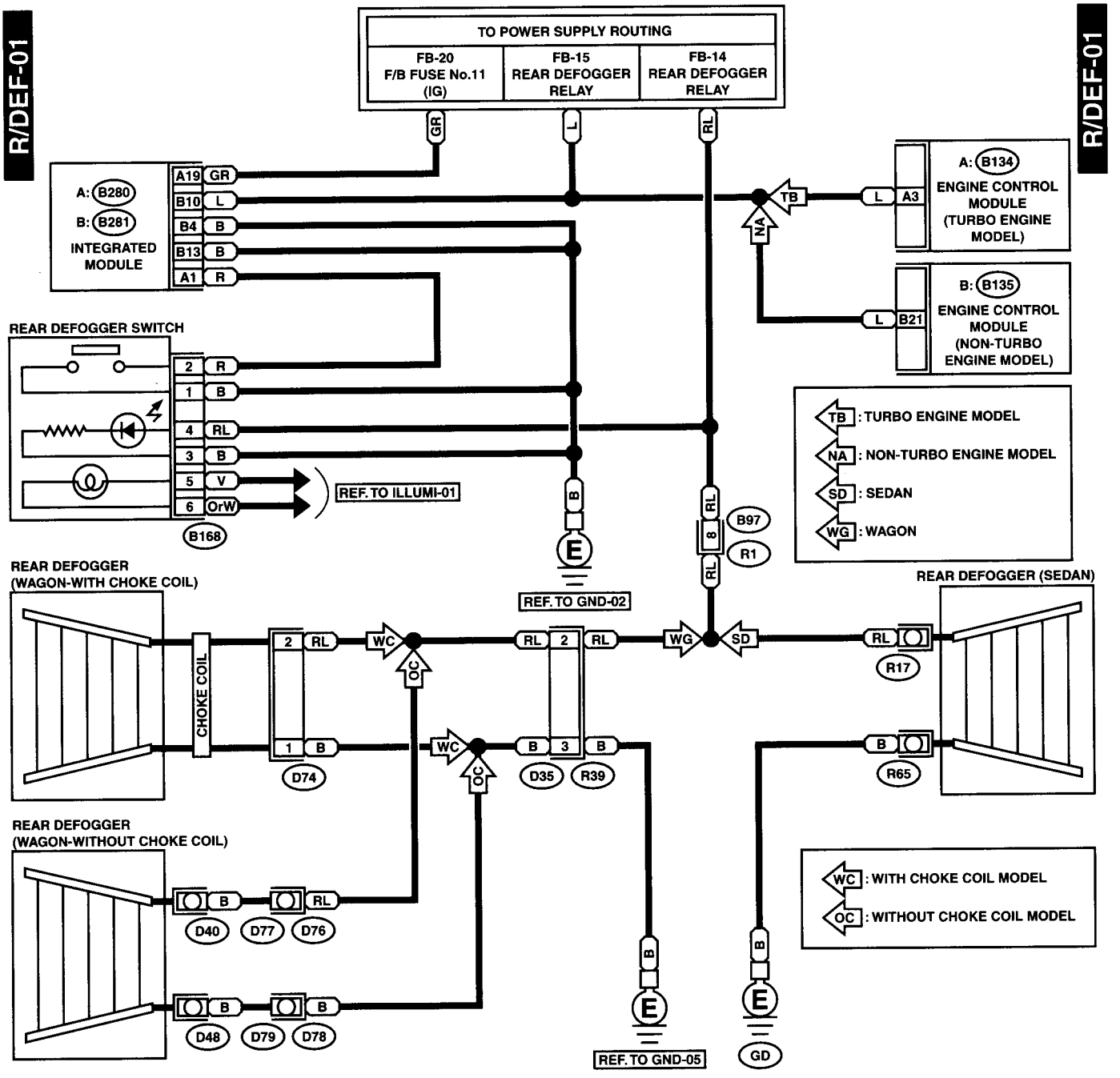
RAPS-01

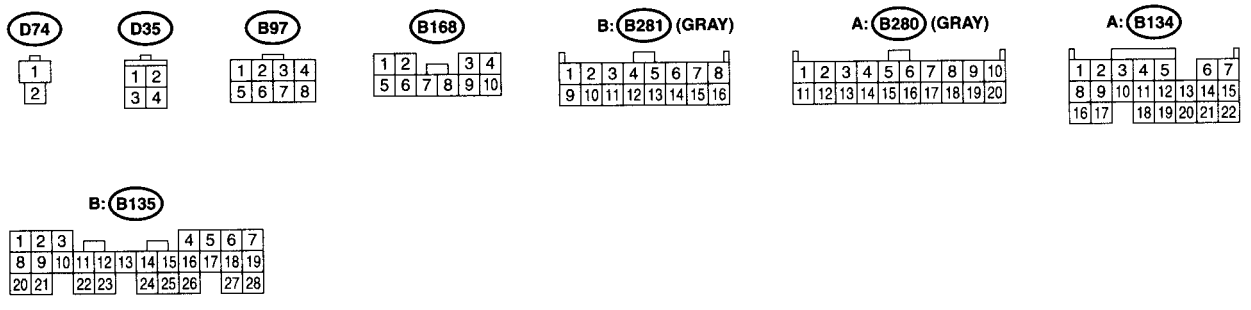


GU90-20

37.Rear Window Defogger System

A: SCHEMATIC

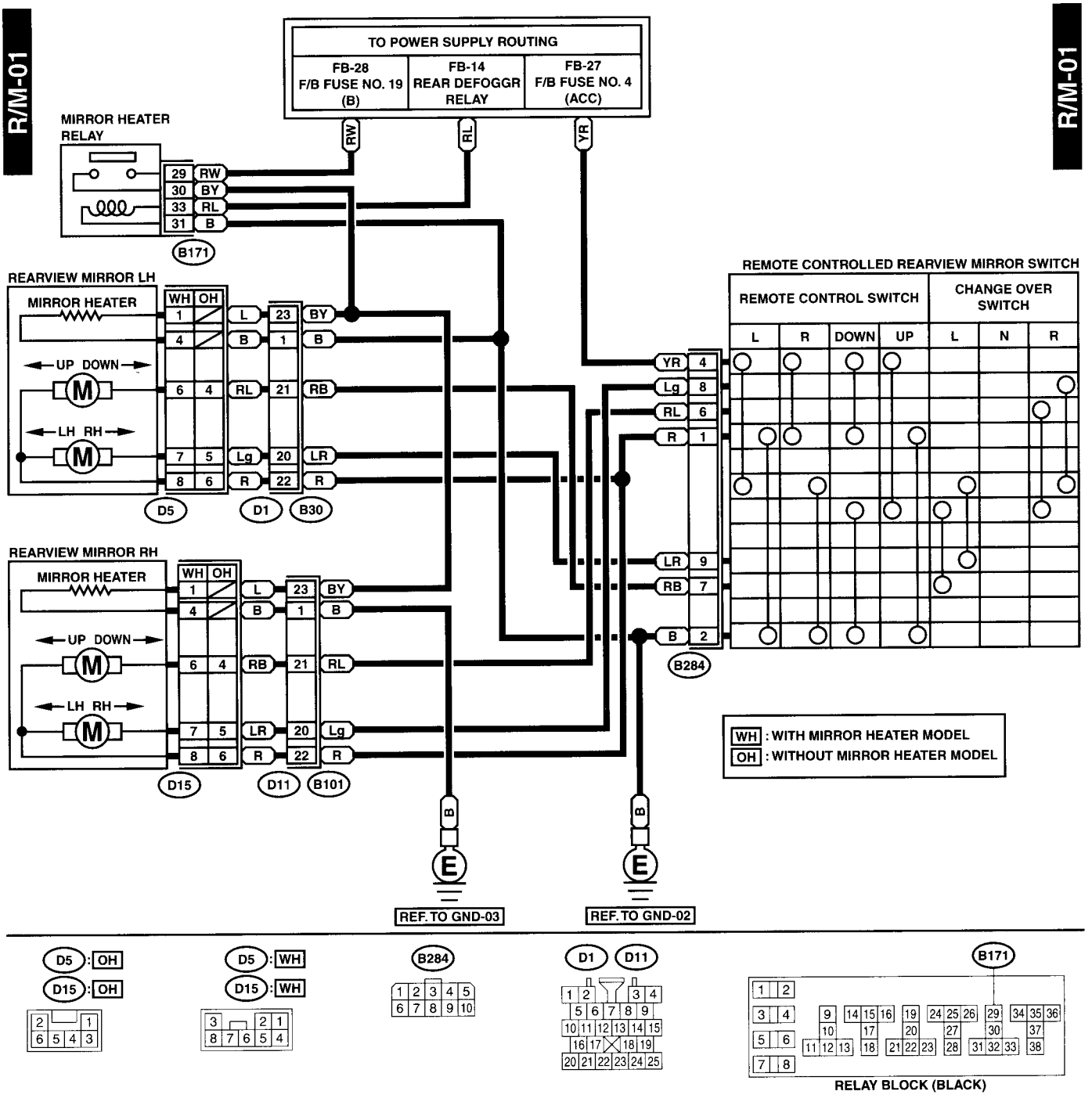




GU52-20

38.Remote Controlled Rearview Mirror System

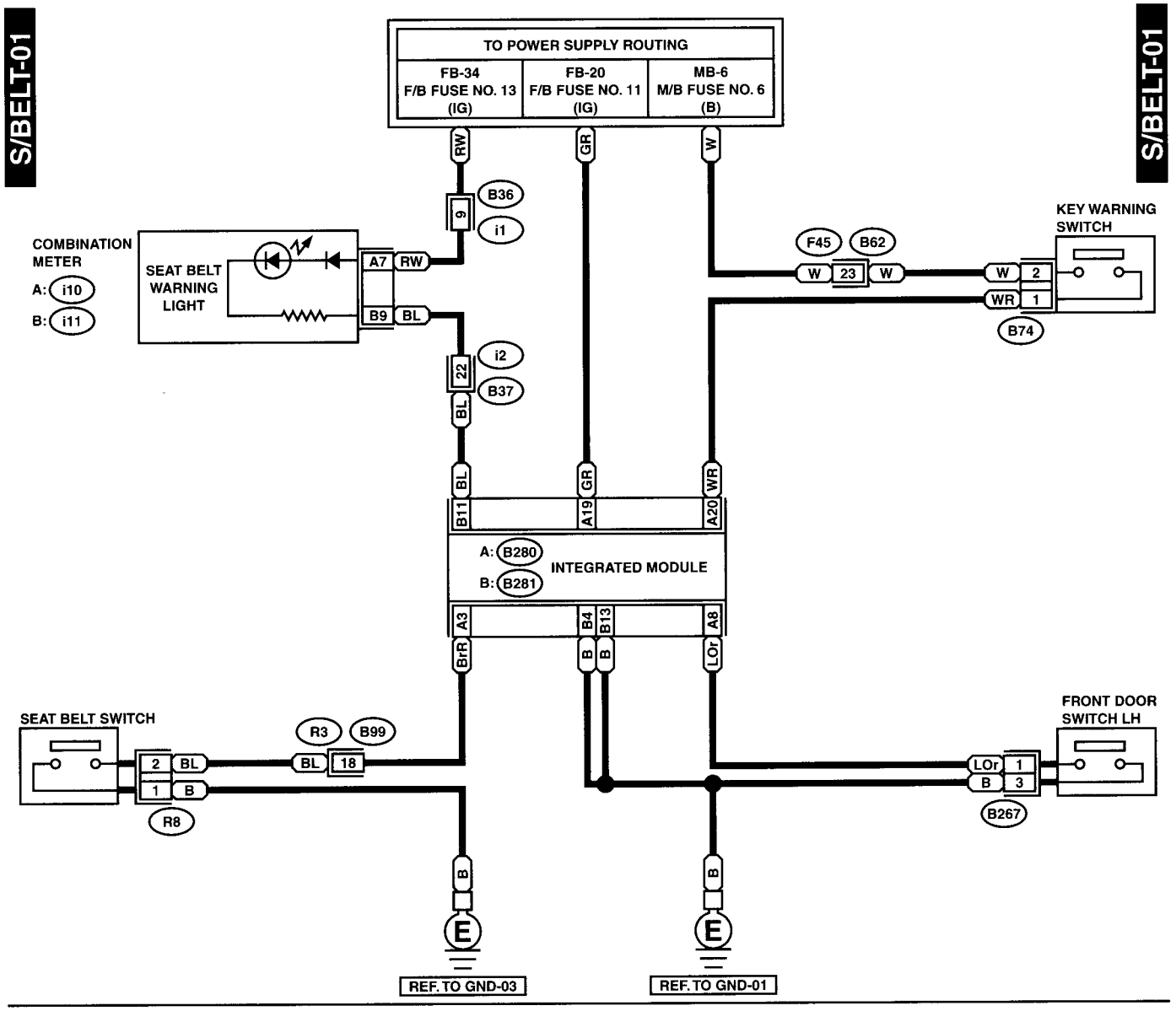
A: SCHEMATIC

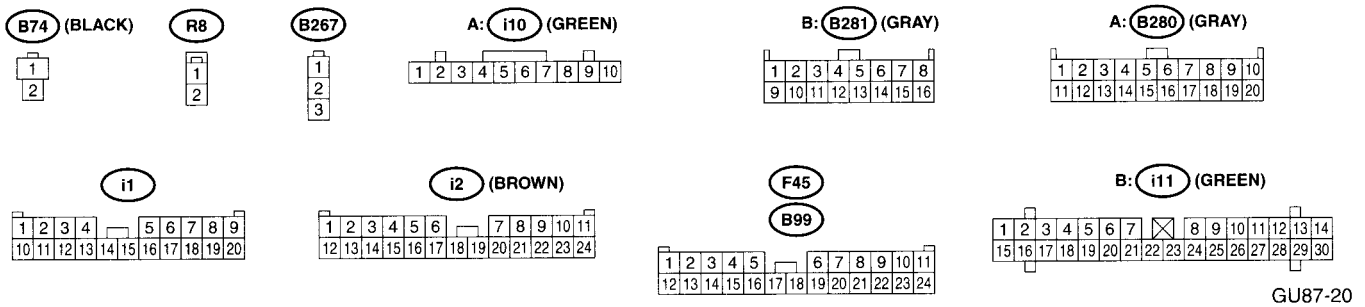


GU79-20

39.Seat Belt Warning and Key Warning System

A: SCHEMATIC



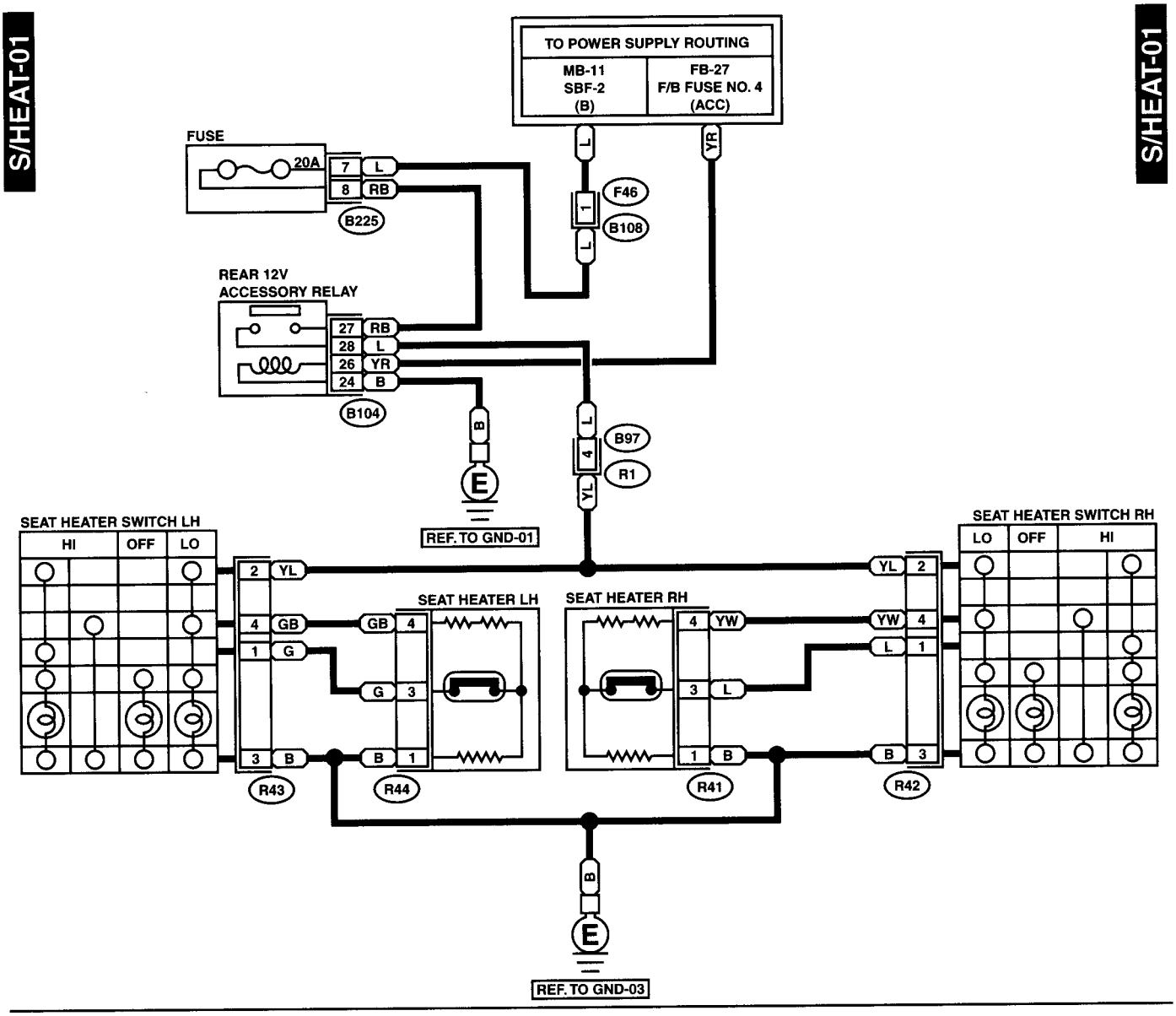


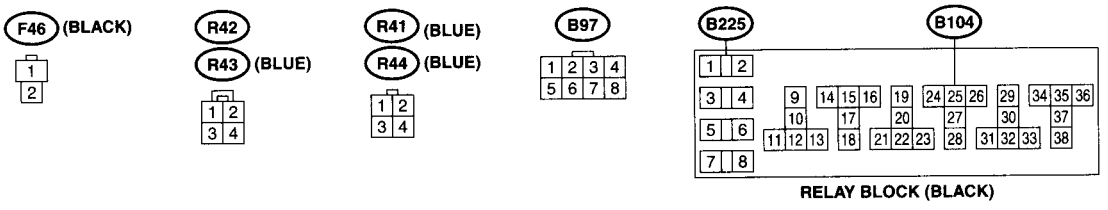
GU87-20

40.Seat Heater System

A: SCHEMATIC

S/HEAT-01

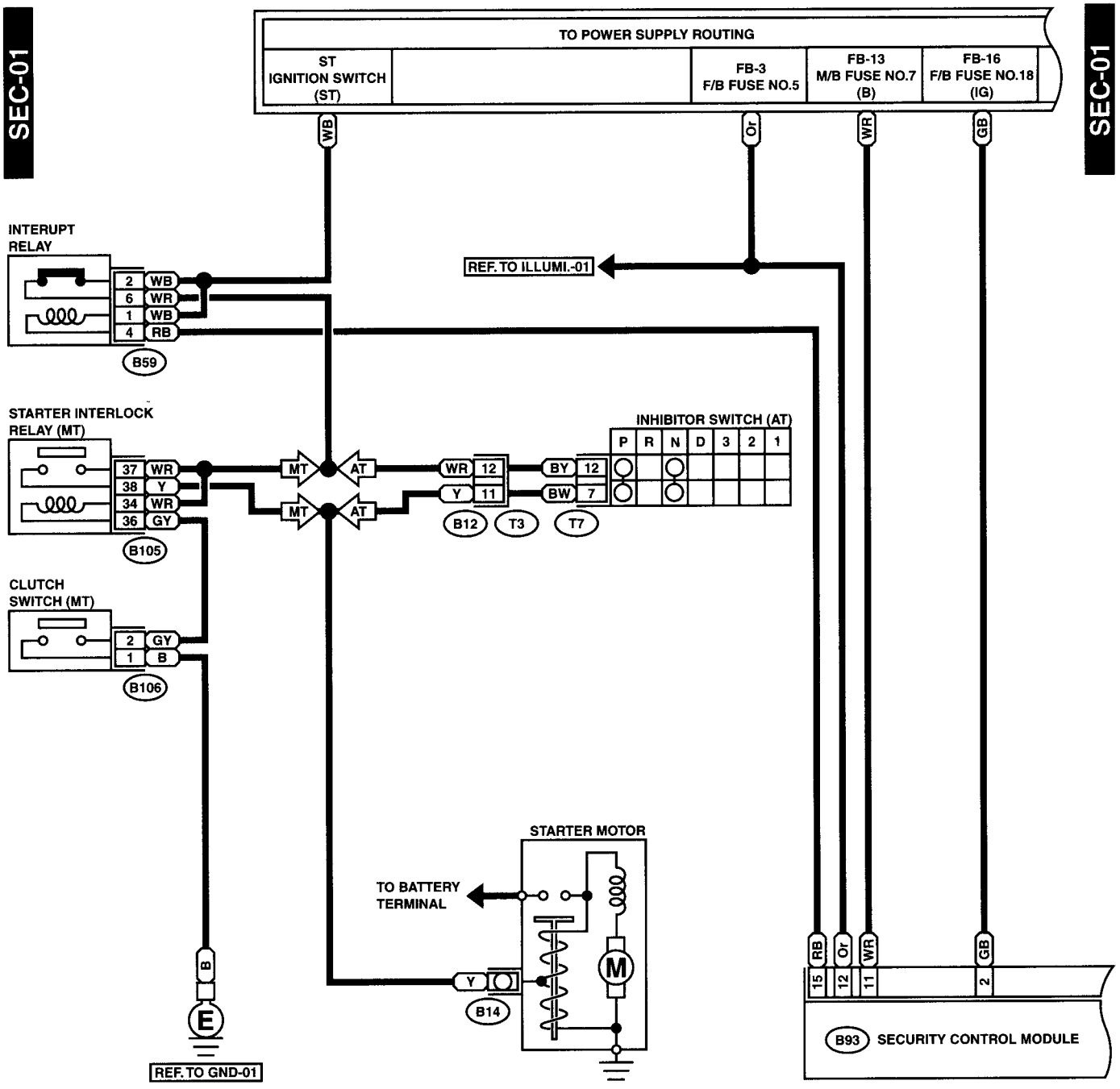


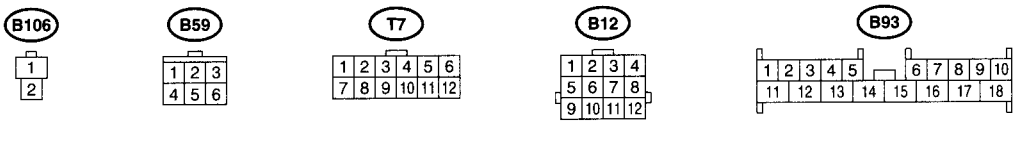


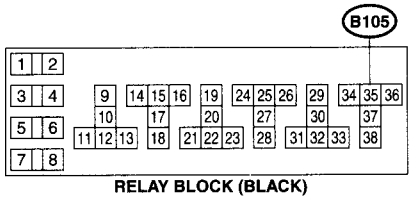
GU84-20

41.Security System

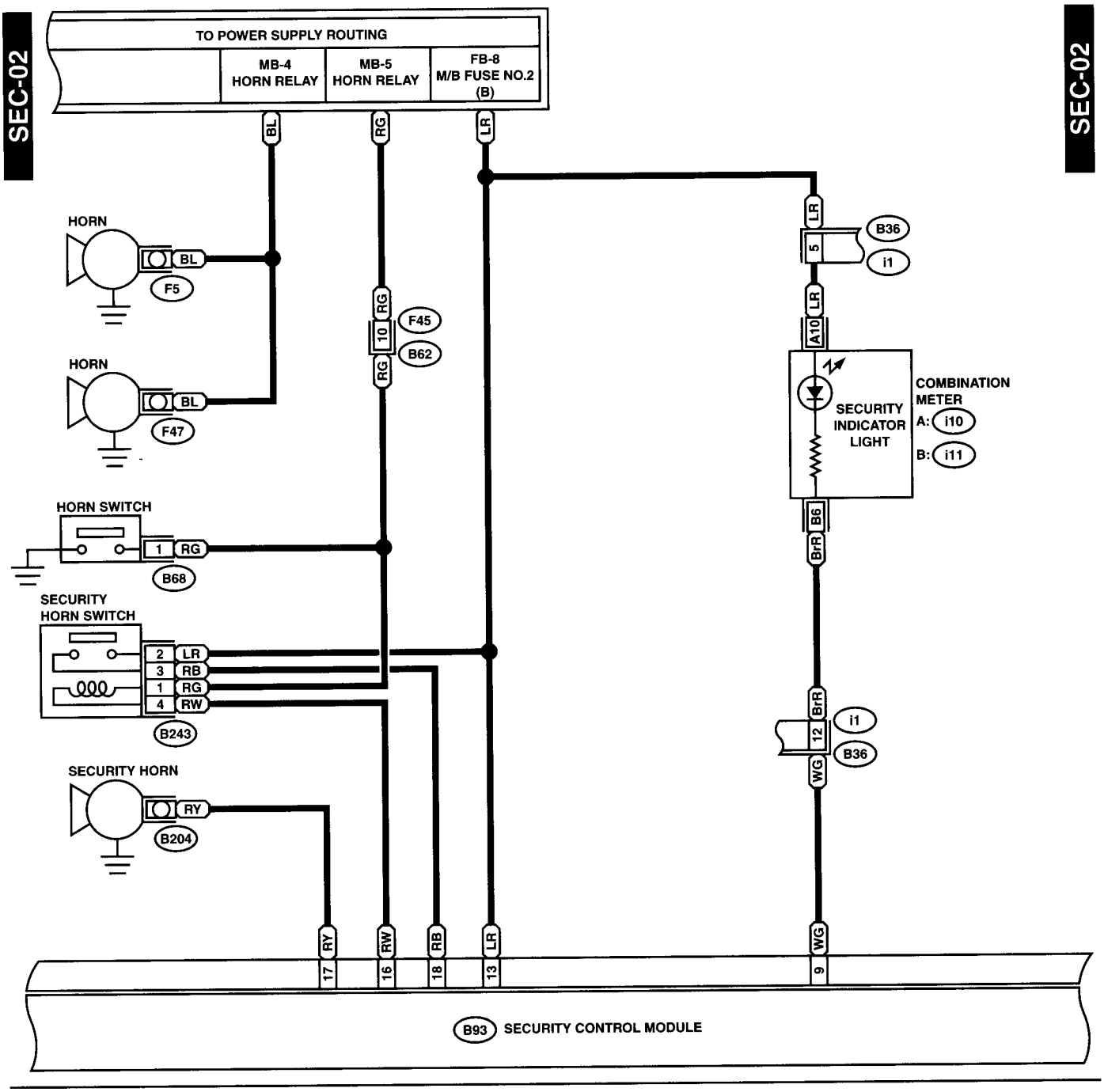
A: SCHEMATIC

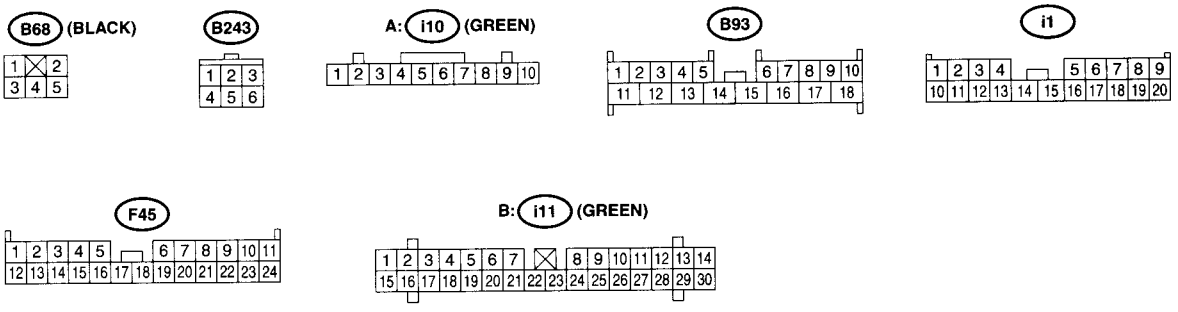






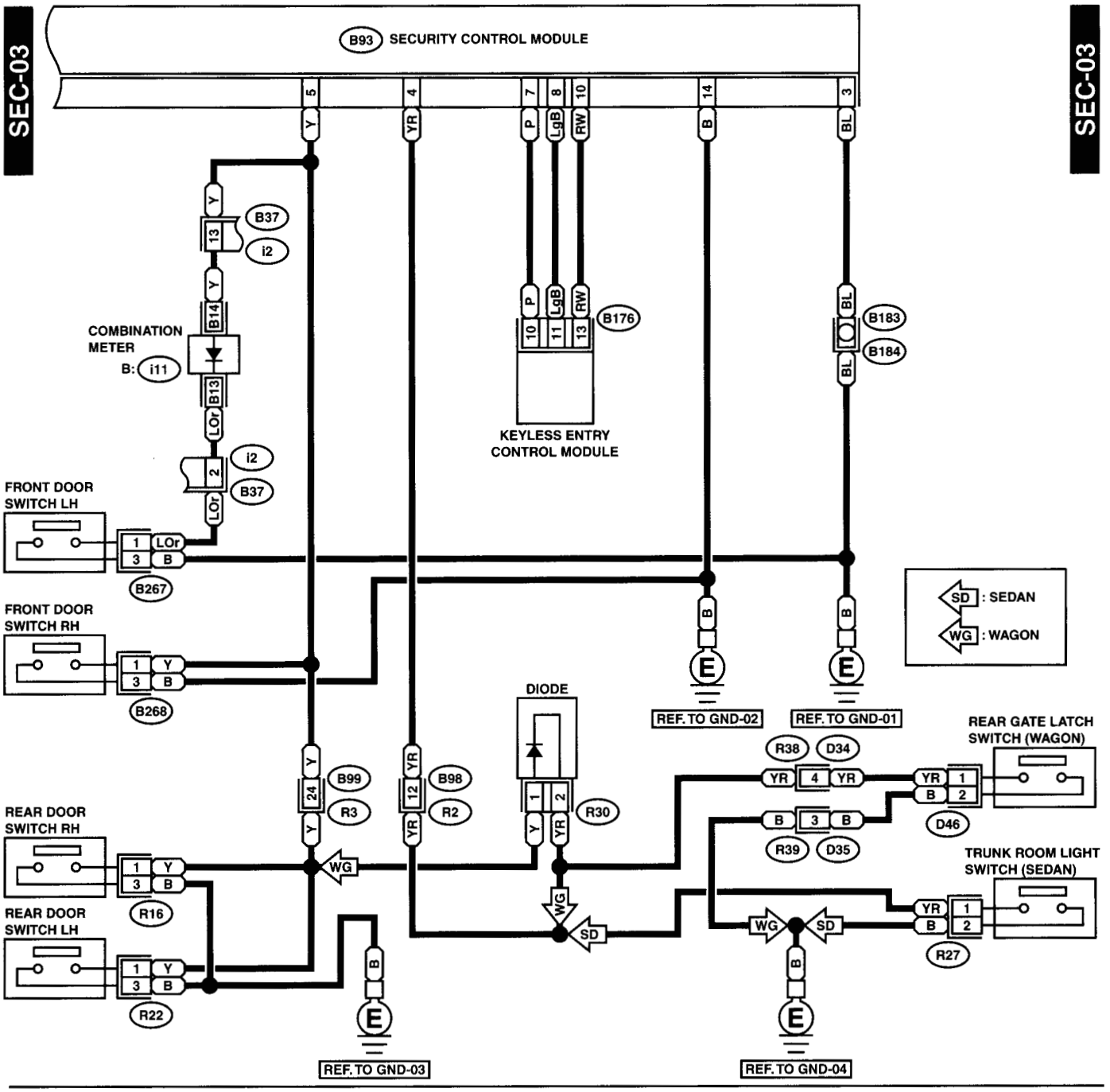
GU94-20A

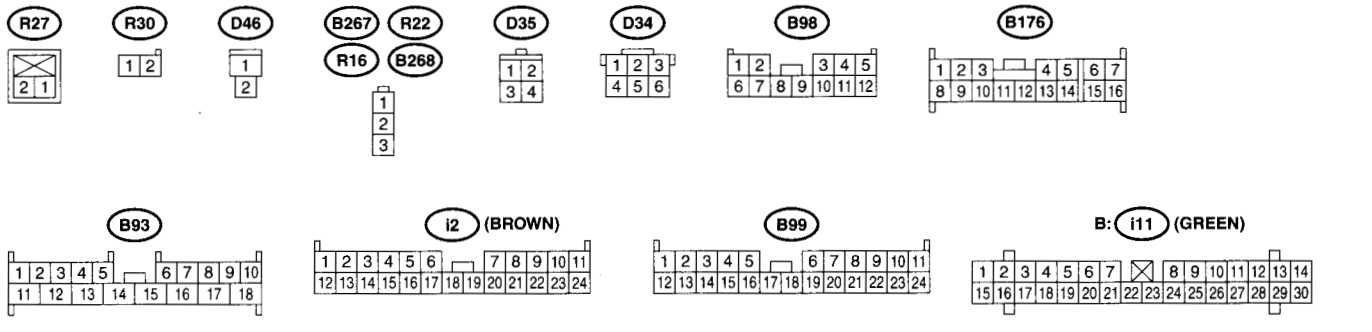

SEC-02
SEC-02
TO POWER SUPPLY ROUTING
MB-4 HORN RELAY
MB-5 HORN RELAY
FB-8 M/B FUSE NO.2 (B)
BL
RG
LR
HORN
BL
F5
HORN
BL
F47
RG
10
F45
B62
RG
LR
5
B36
i1
LR
A10
SECURITY INDICATOR LIGHT
COMBINATION METER
A: i10
B: i11
B6
BrR
HORN SWITCH
1
RG
B68
SECURITY HORN SWITCH
2
LR
3
RB
1
RG
4
RW
B243
BrR
12
i1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

GU94-20B

SEC-03



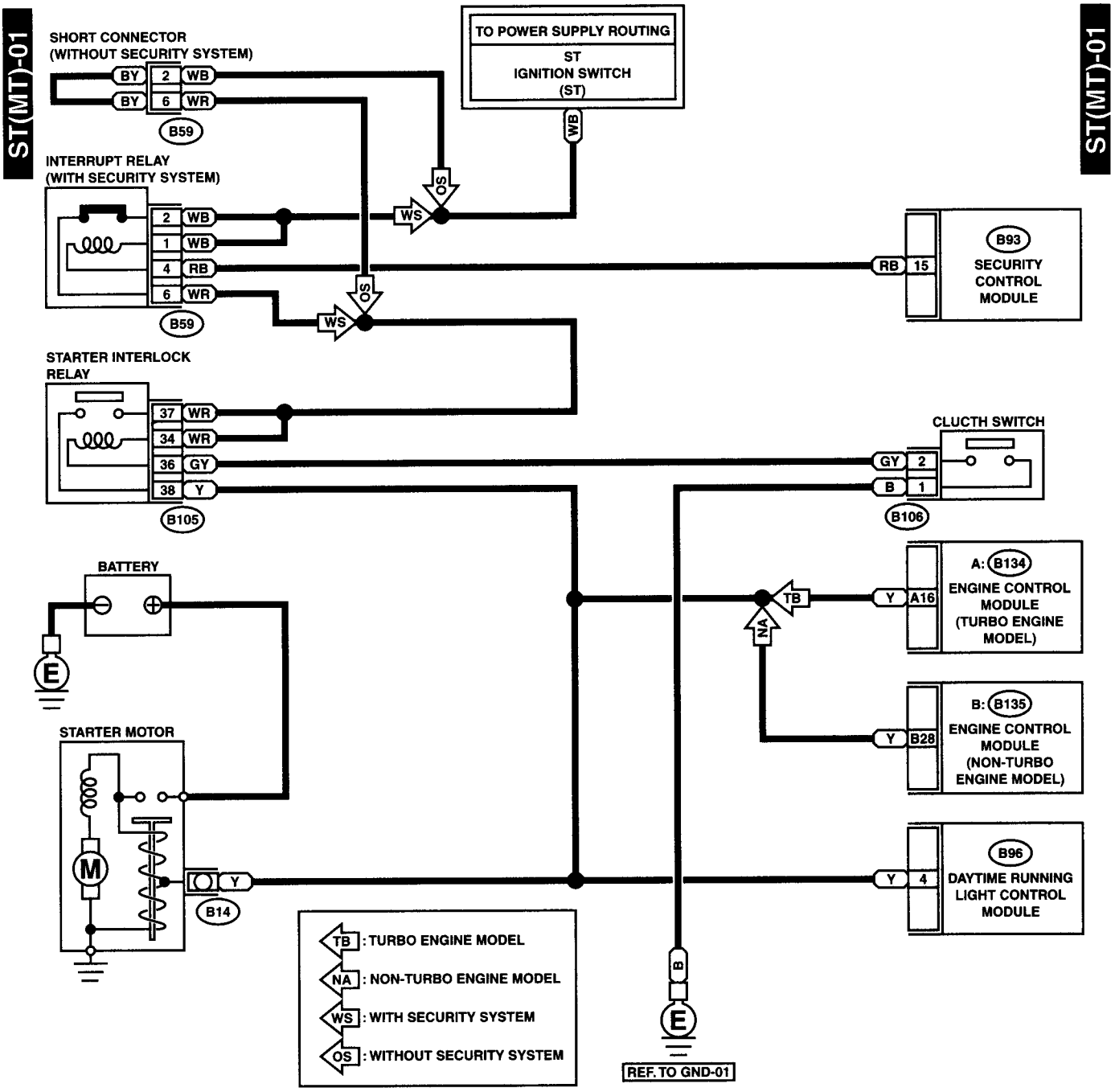


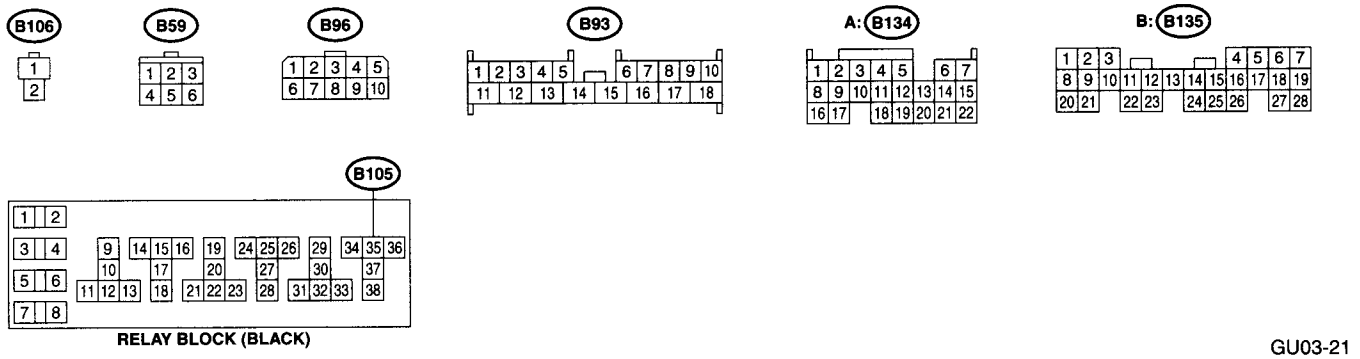
GU94-20C

42.Starter System

A: SCHEMATIC

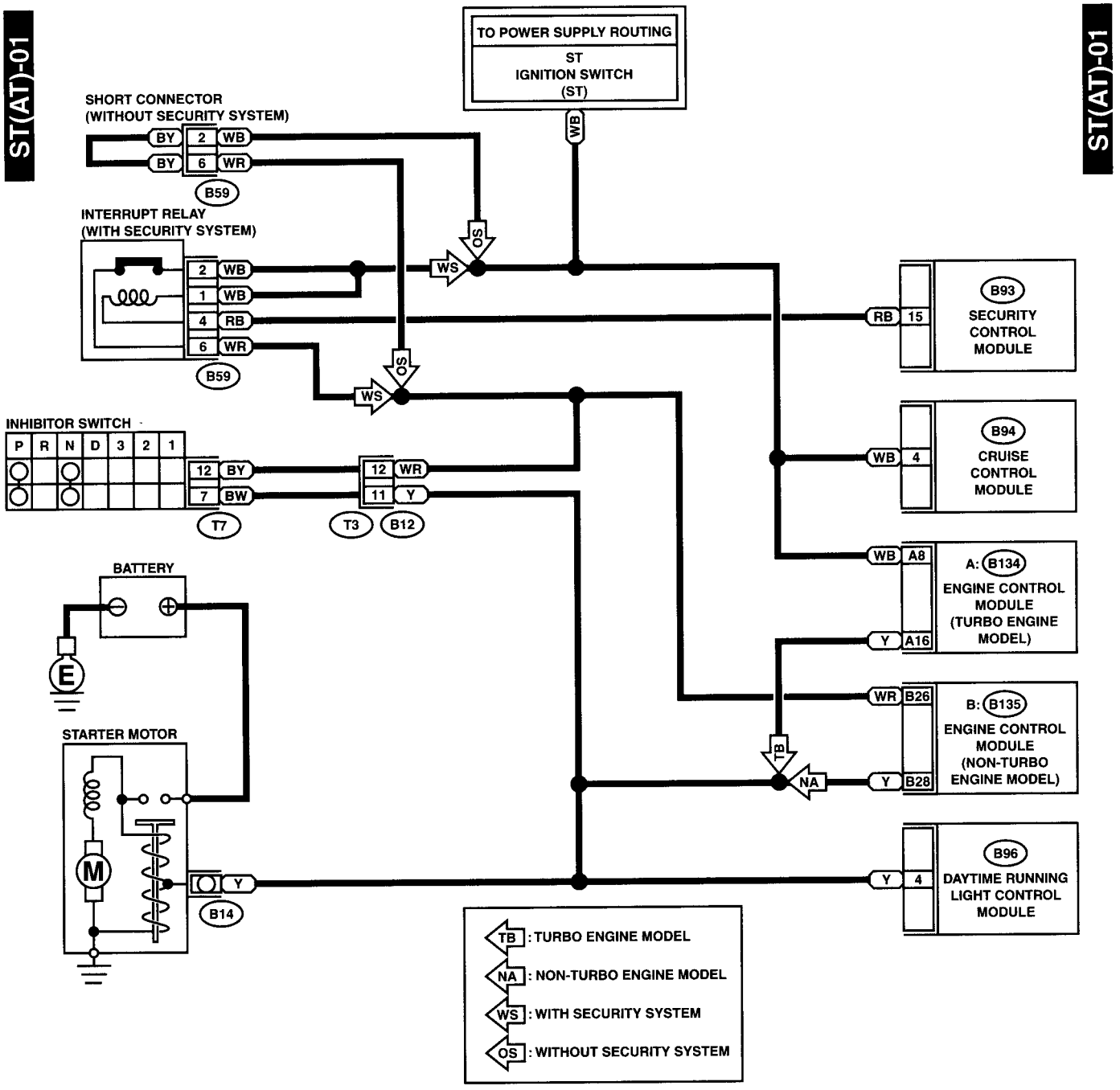
1. MT MODEL

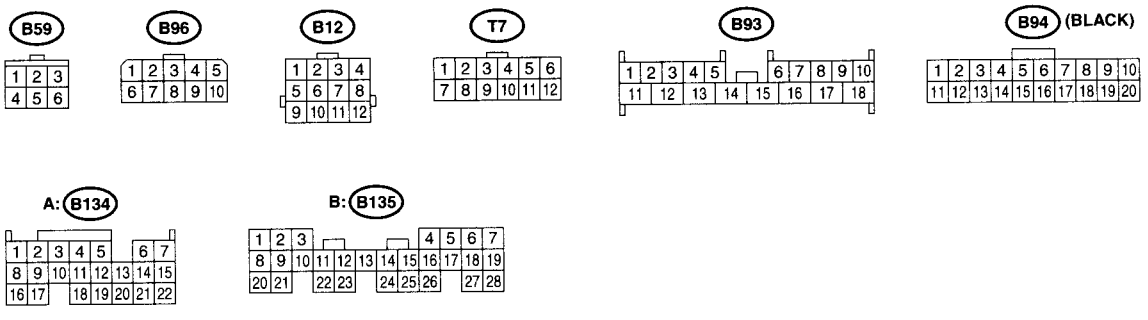




GU03-21

2. AT MODEL

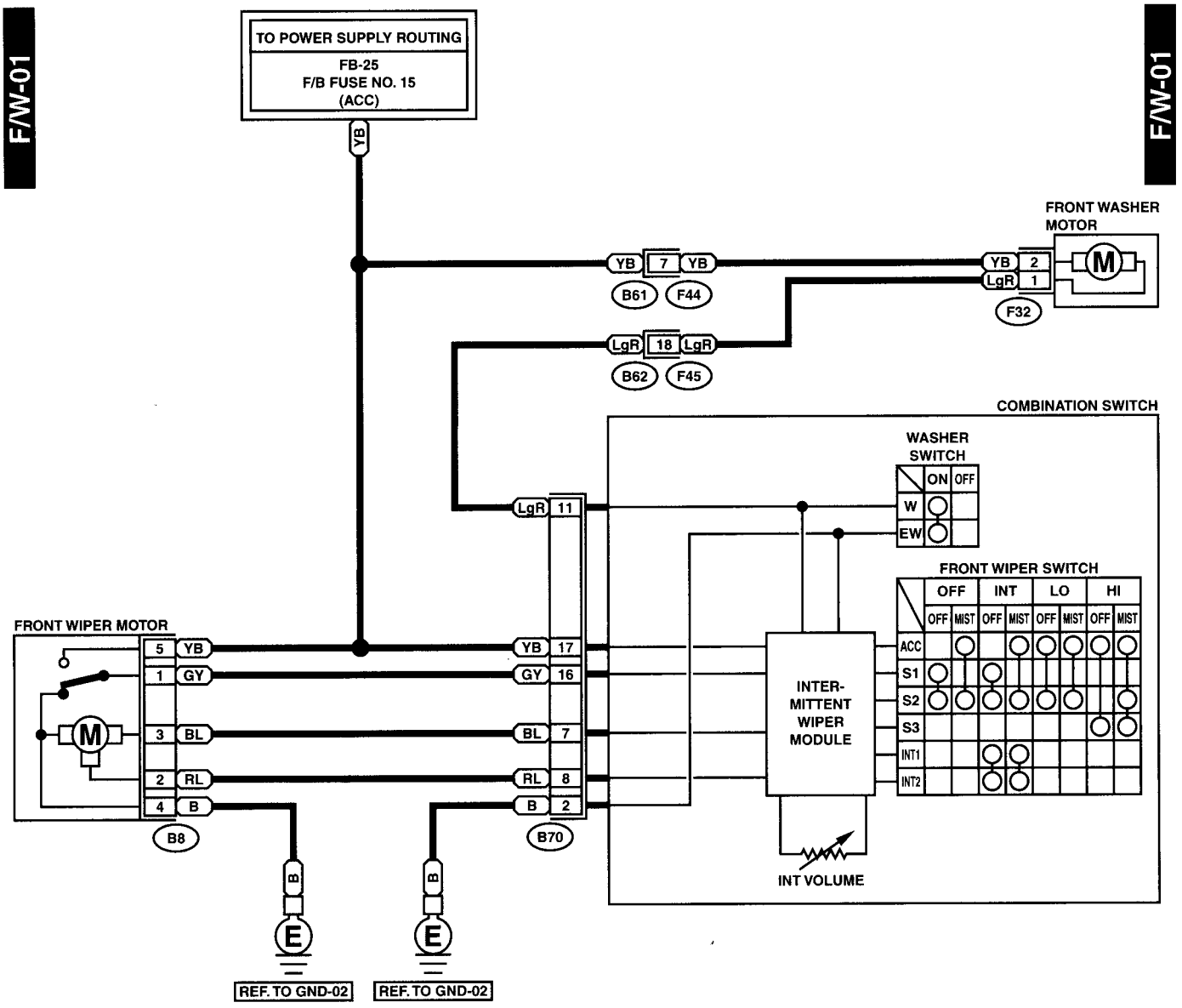


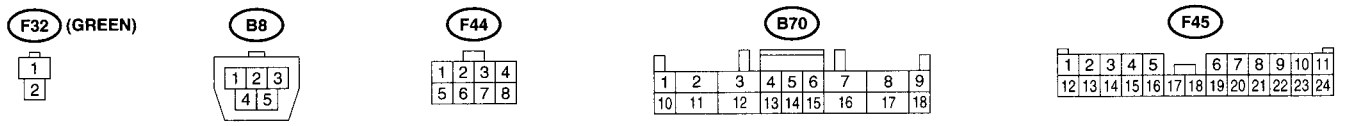


GU03-20

43.Wiper and Washer System (Front)

A: SCHEMATIC

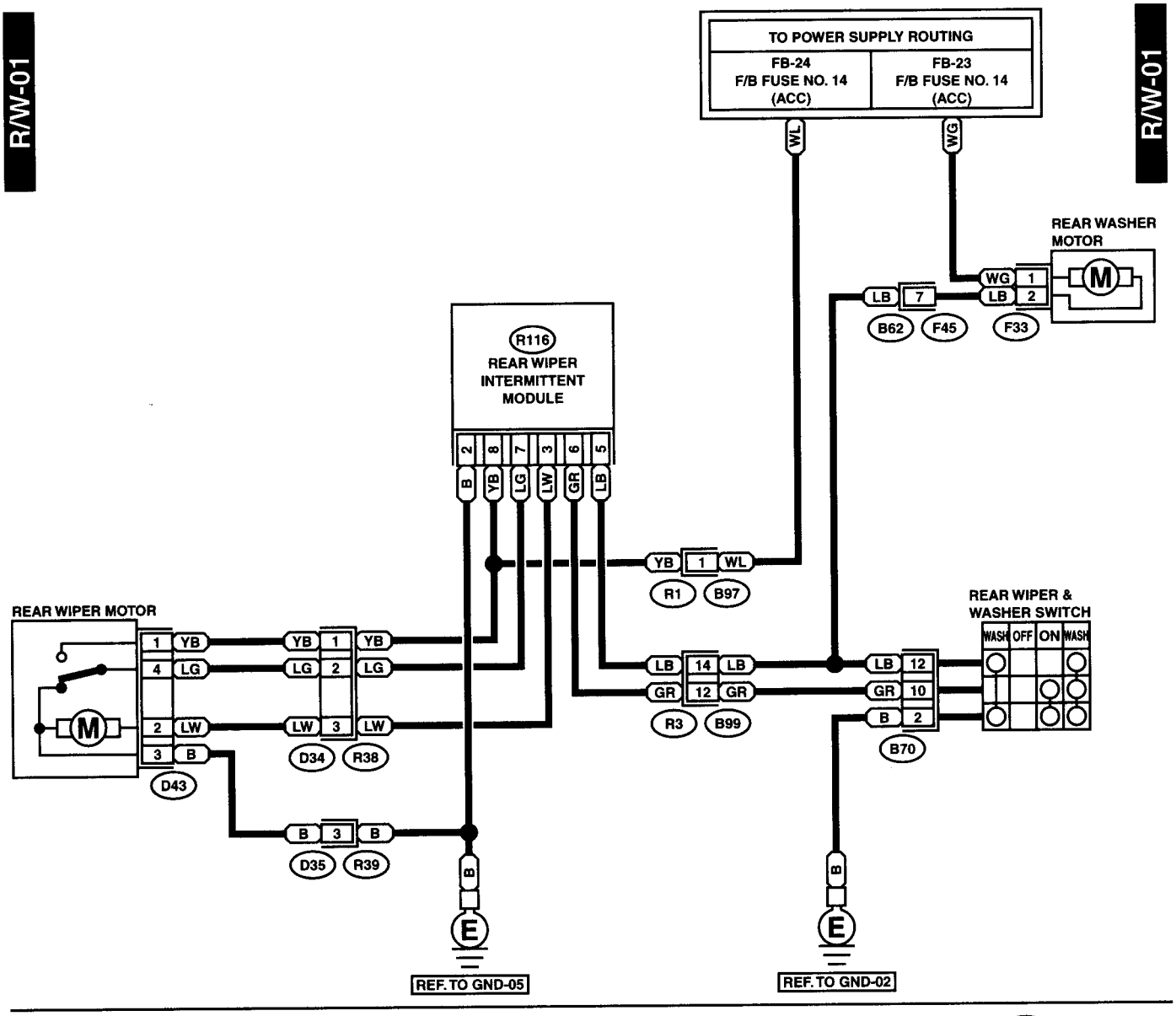




GU50-20

44.Wiper and Washer System (Rear)

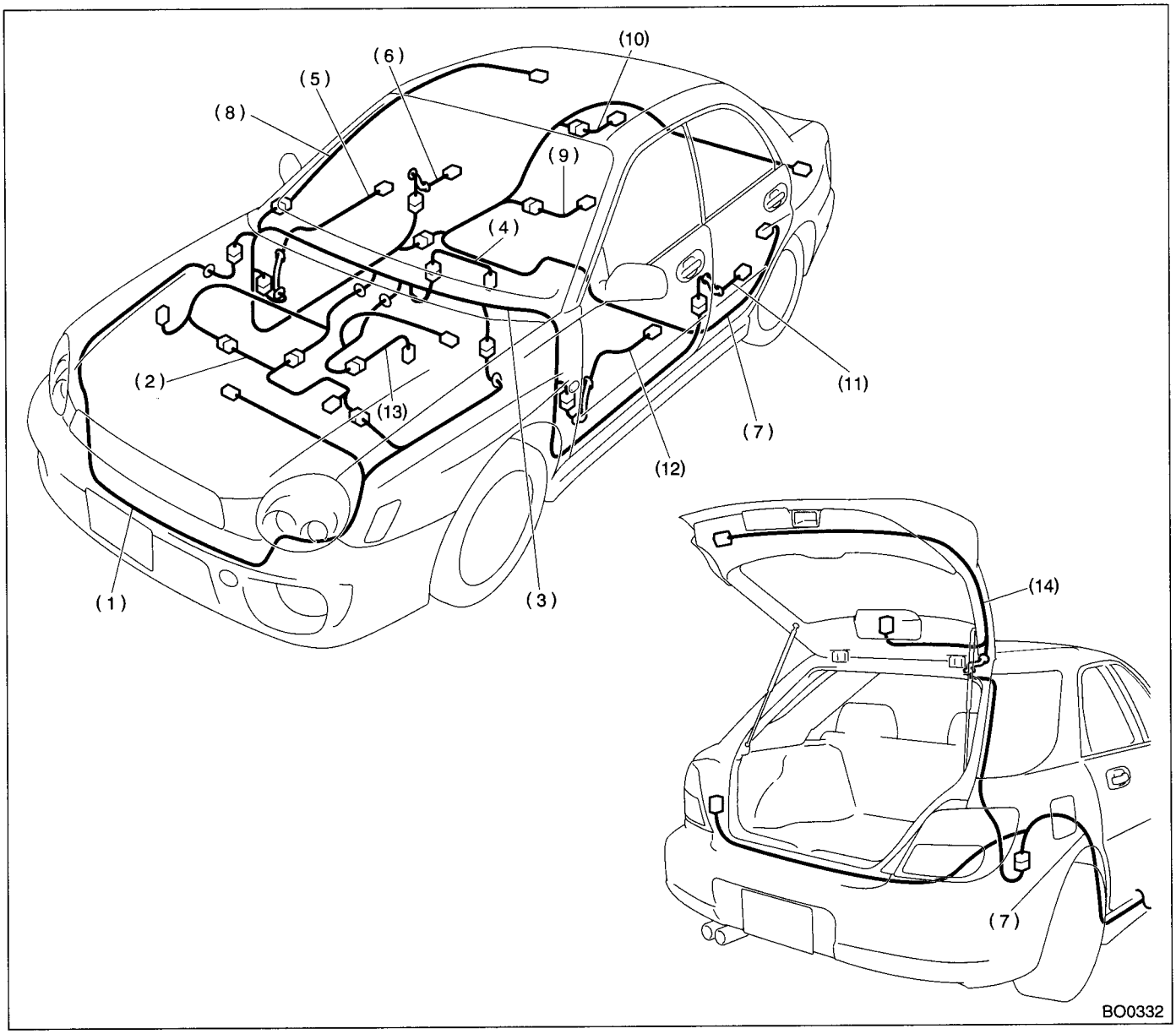
A: SCHEMATIC



GU51-20

45.Overall Systems

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

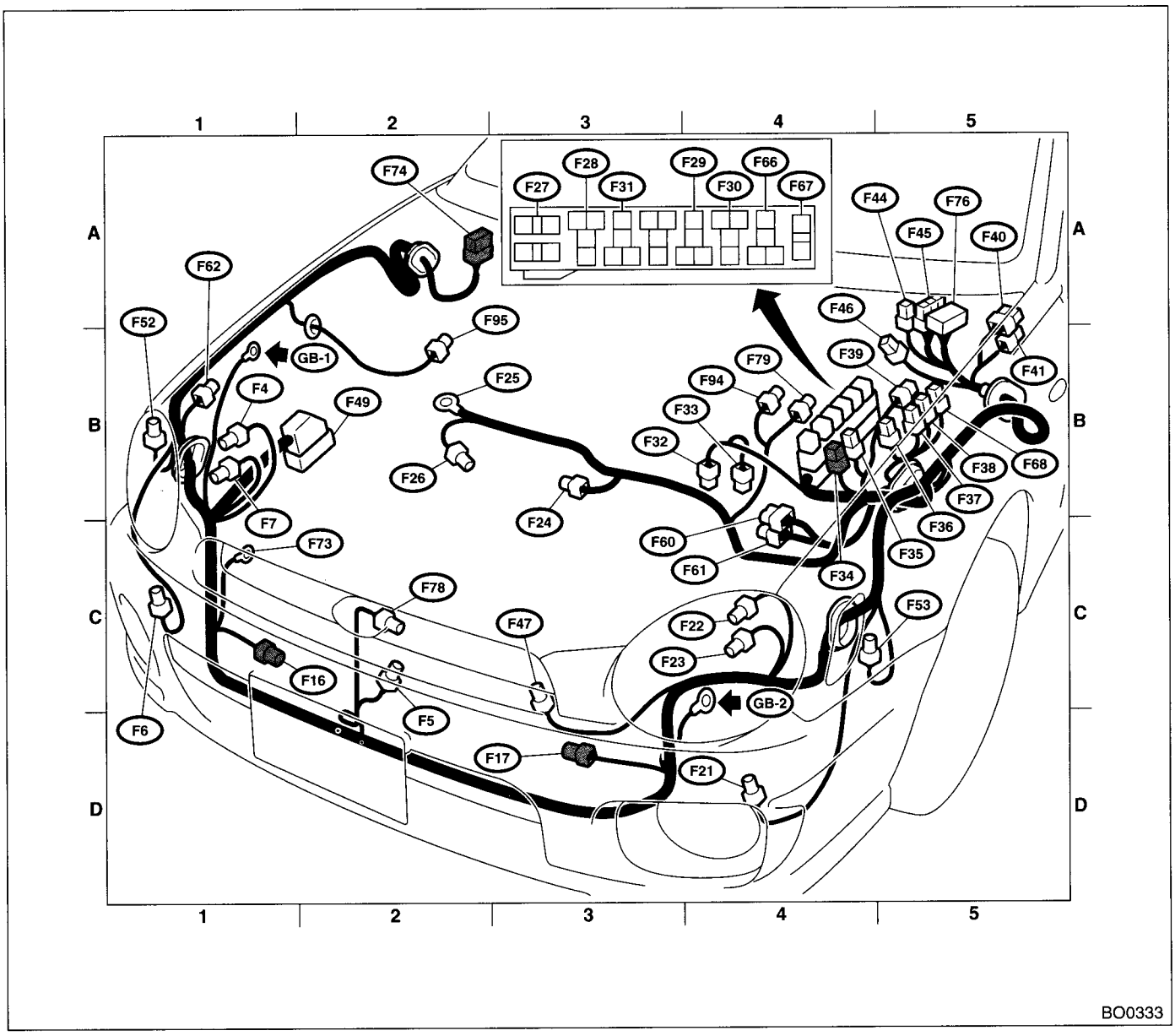
46.Front Wiring Harness

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
F6	2	Black	C-1		Front fog light RH
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	B-4		Front washer motor
F33	2	★	B-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	A-5		Fuse & relay box (F/B)
F41	7	Gray	B-5		

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
F44	8	★	A-5	B61	Bulkhead wiring harness
F45	24	★	A-5	B62	
F46	2	Black	B-5	B108	
F47	1	★	C-3		Horn
F49	31	★	B-2		ABS control module
F52	2	★	B-1		Side marker light RH
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)
F62	8	Gray	B-1		Shield joint connector (ABS)
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)
F73	1	★	C-1		ABS motor ground
F74	20	★	A-2	B200	Bulkhead wiring harness (ABS)
F76	40	Gray	A-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
F95	2	Gray	B-2		ABS front sensor RH

★: Non-colored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F5
GB-2
F6
F17
F21
BO0333

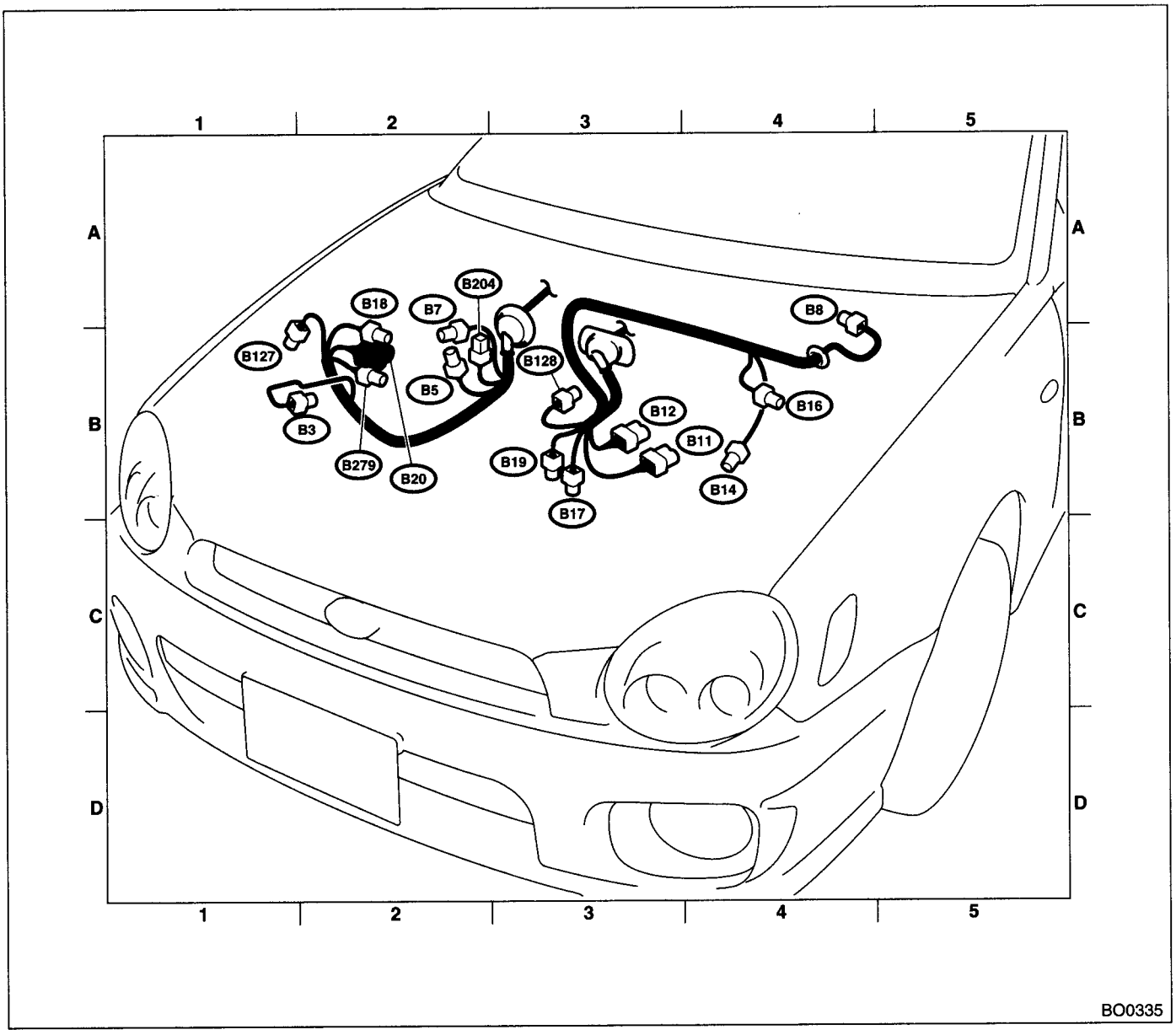
47.Bulkhead Wiring Harness (In Engine Room)

A: LOCATION

1. TURBO ENGINE MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B3	5	Black	B-2		Mass air flow sensor
B5	2	Gray	B-2		Resistor (Daytime running light)
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	★	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
★: Non-colored					

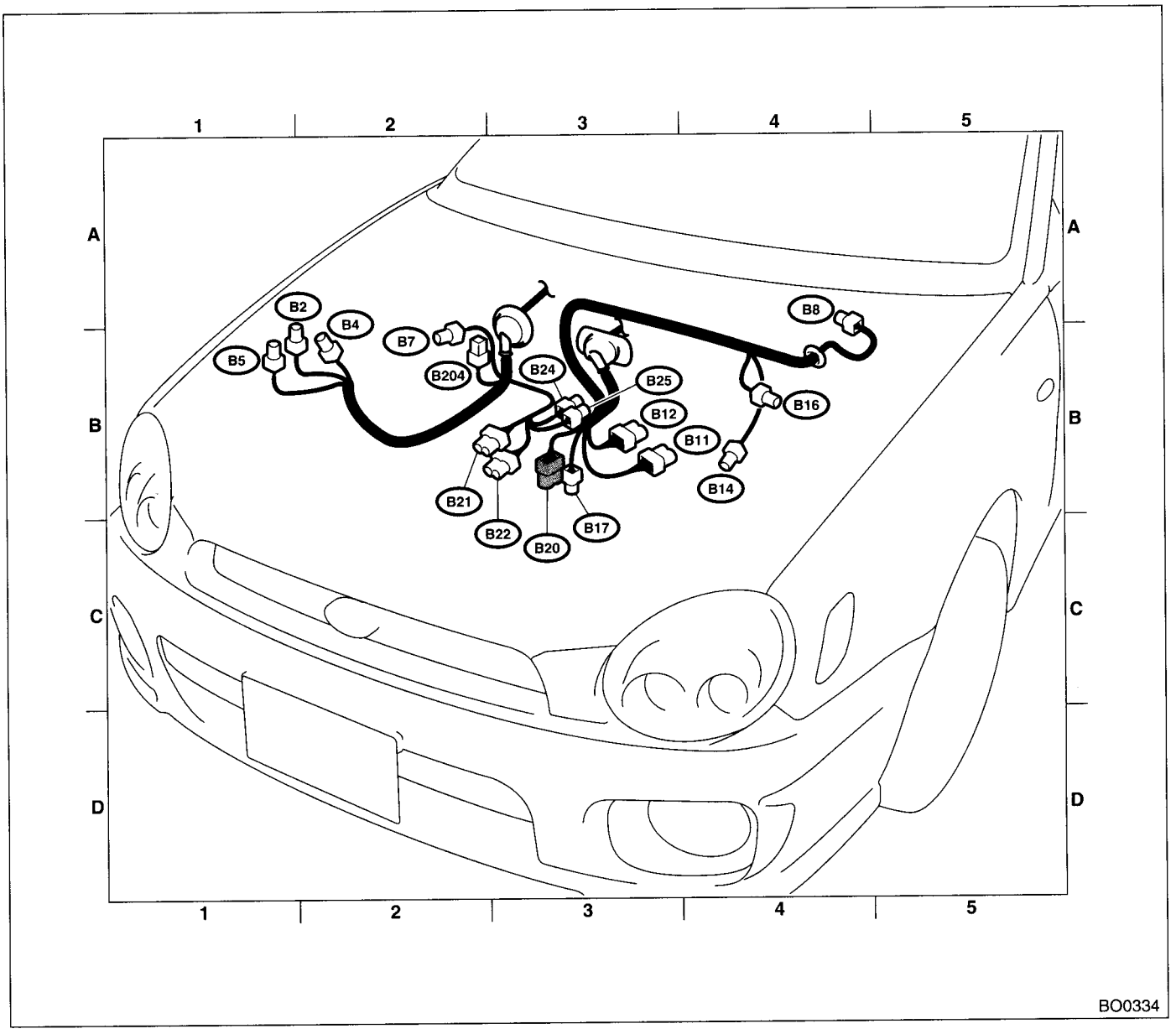
BULKHEAD WIRING HARNESS (IN ENGINE ROOM)



2. NON-TURBO ENGINE MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B2	3	★	B-1		Atmospheric pressure sensor
B4	4	Gray	B-2		AT dropping resistor
B5	2	Gray	B-1		Resistor (Daytime running light)
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	★	B-4		Starter (Magnet)
B16	2	Gray	B-4		Brake fluid level switch
B17	3	★	B-3		Vehicle speed sensor (MT)
B20	10	★	B-3	E1	Oxygen sensor cord
B21	20	Gray	B-3	E2	Engine wiring harness
B22	16	Brown	B-3	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
★: Non-colored					

BULKHEAD WIRING HARNESS (IN ENGINE ROOM)



48.Bulkhead Wiring Harness (In Compartment)

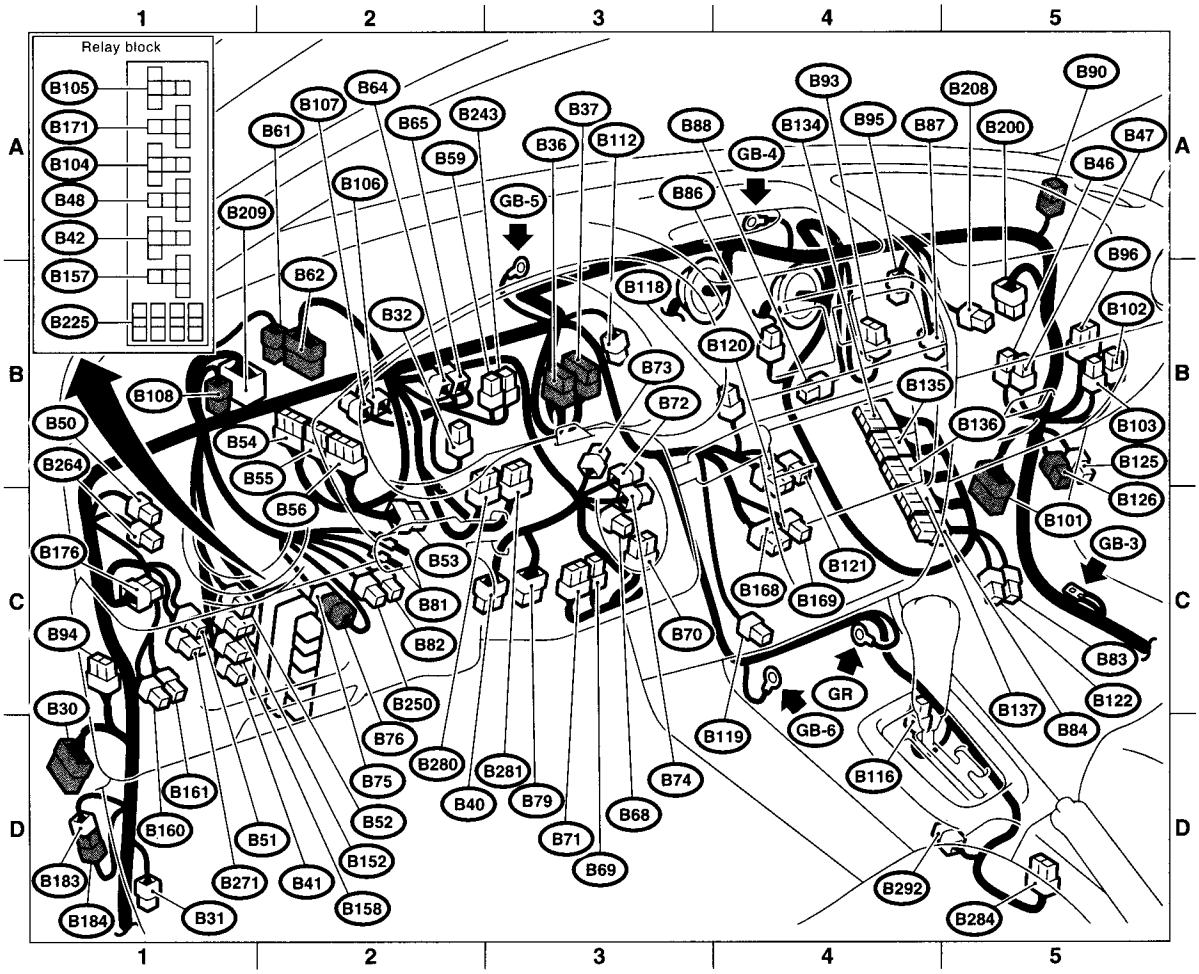
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B30	25	★	D-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	Gray	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)
	6	★	C-5		Shield & sensor ground joint connector (E/G-non-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	★	A-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		Rear 12V accessory relay (Relay block)
B105	5	★	C-2		Starter interlock relay (MT-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	★	D-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	★	B-4		Audio bracket earth
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
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	
B134	22	★	B-4		Engine control module (Turbo engine model)
	35	★	B-4		Engine control module (Non-turbo engine model)
B135	28	★	B-4		Engine control module
B136	24	★	B-4		Engine control module (Turbo engine model)
	30	★	B-4		Engine control module (Non-turbo engine model)
B137	31	★	C-4		Engine control module (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	
B200	20	★	B-5	F74	Front wiring harness (ABS)
B208	2	Black	B-5		Glove box illumination light
B209	40	Gray	B-1	F76	Front wiring harness (SMJ-turbo engine model)
B225	8	★	C-2		Fuse (Relay block)
B243	6	★	B-3		Security horn relay
B250	3	★	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	Gray	B-3		
B284	10	★	D-5		Remote controlled rearview mirror switch
B292	3	★	D-5		ABS G sensor
★: Non-colored					

BULKHEAD WIRING HARNESS (IN COMPARTMENT)



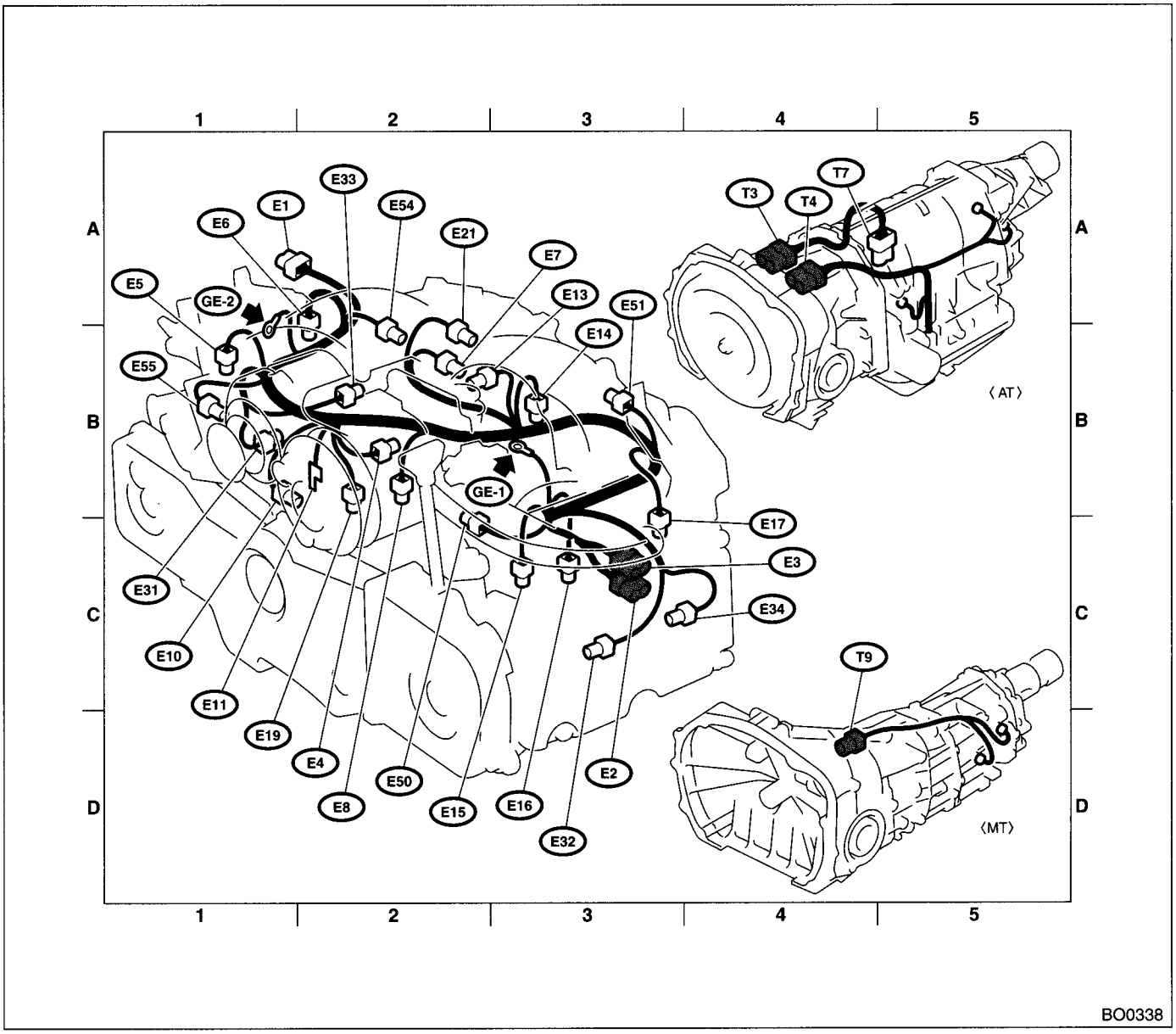
49.Engine Wiring Harness and Transmission Cord

A: LOCATION

1. TURBO ENGINE MODEL

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

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T3	12	★	A-4	B12	Bulkhead wiring harness (AT)
T4	20	Black	A-4	B11	
T7	12	★	A-5		Inhibitor switch (AT)
T9	4	★	D-4	B128	Bulkhead wiring harness (MT)
★:Non-colored					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GE-1
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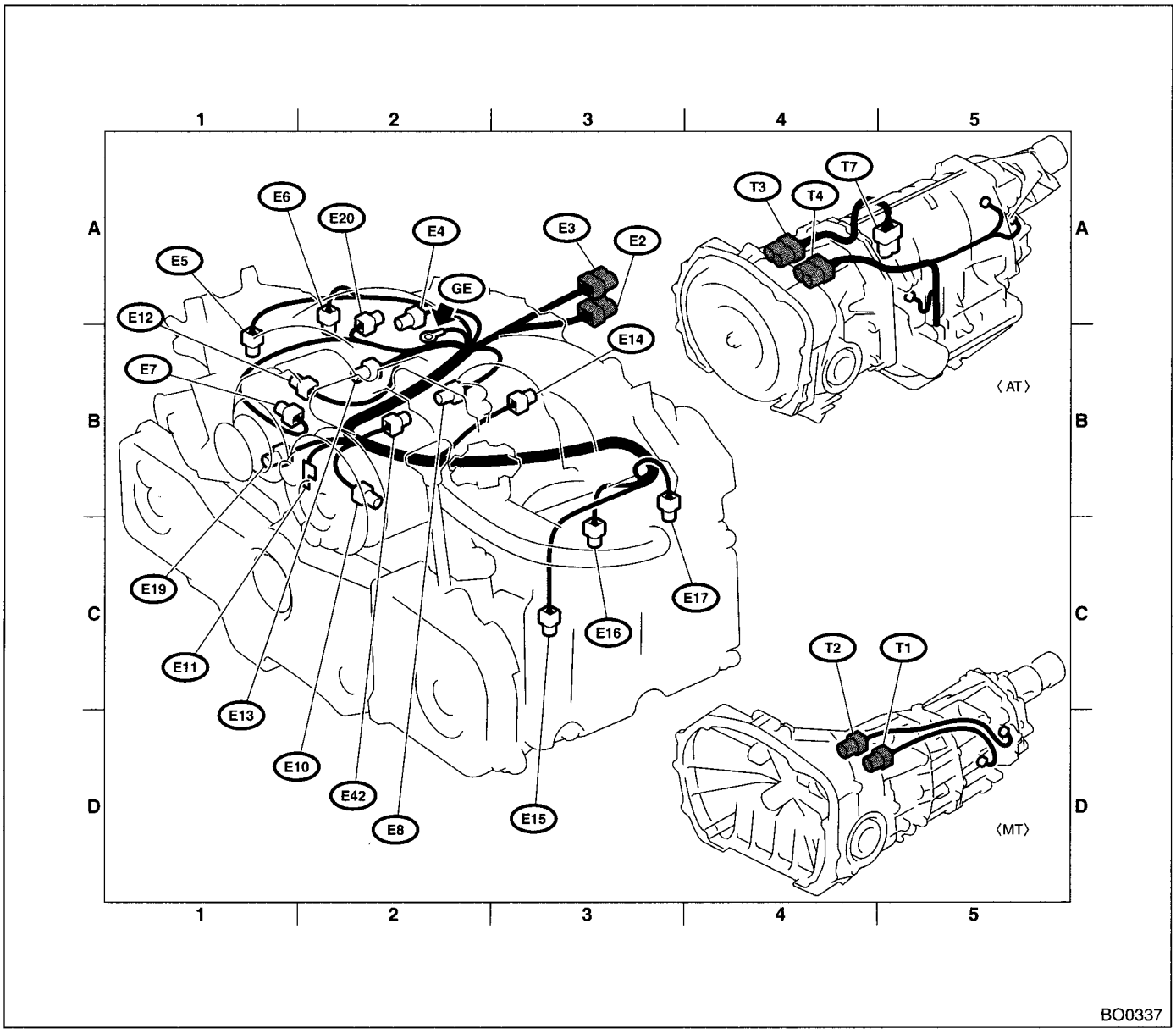
E34
E10
E11
E19
E4
E50
E8
E15
E16
E2
E32
T3
T4
T7
〈AT〉
T9
〈MT〉
BO0338

2. NON-TURBO ENGINE MODEL

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

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T1	2	Gray	D-5	B24	Bulkhead wiring harness (MT)
T2	2	Brown	D-4	B25	
T3	12	★	A-4	B12	Bulkhead wiring harness (AT)
T4	20	Black	A-4	B11	
T7	12	★	A-5		Inhibitor switch (AT)
★:Non-colored					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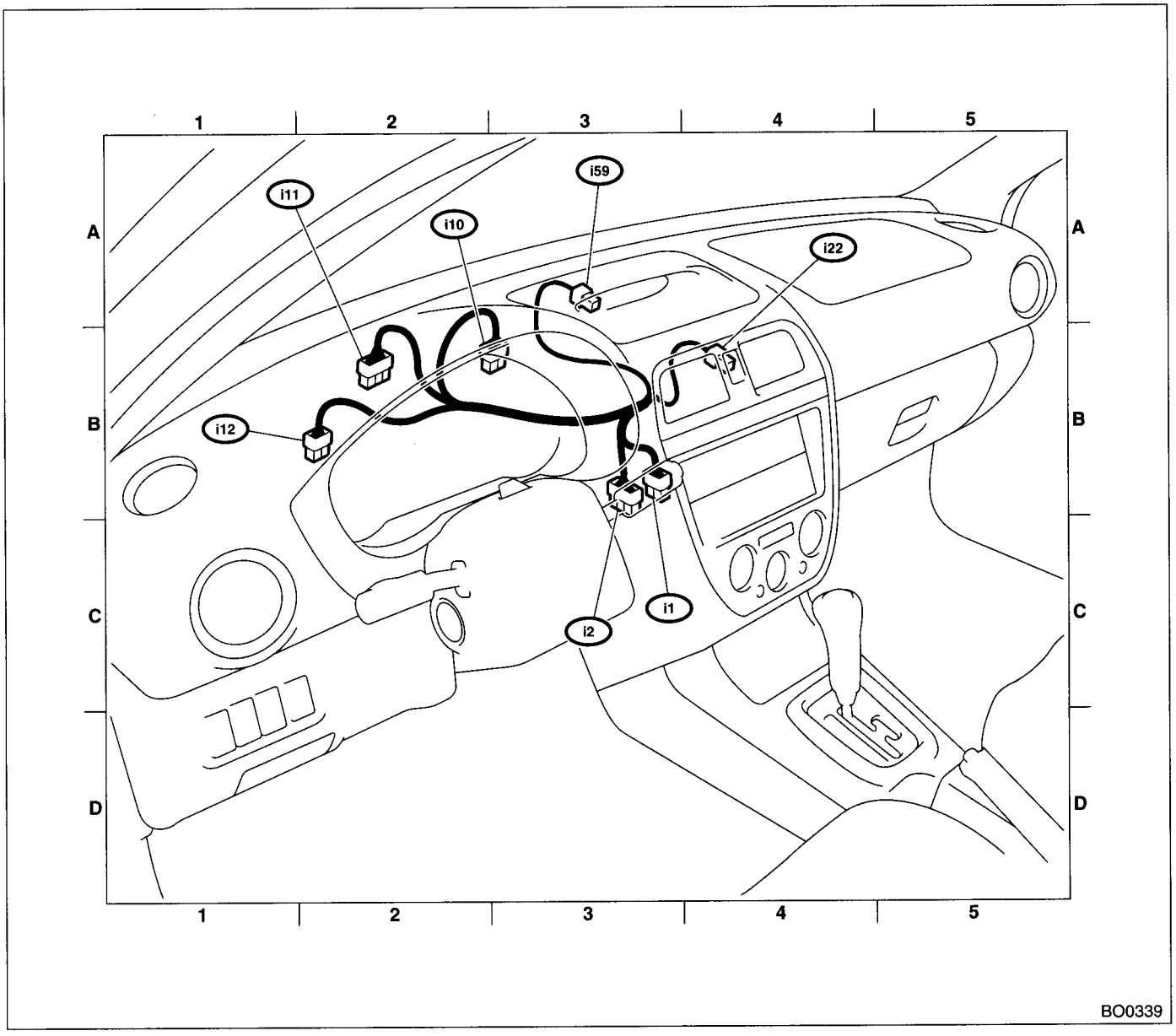
BO0337

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	★	A-3		Clock



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

A: LOCATION

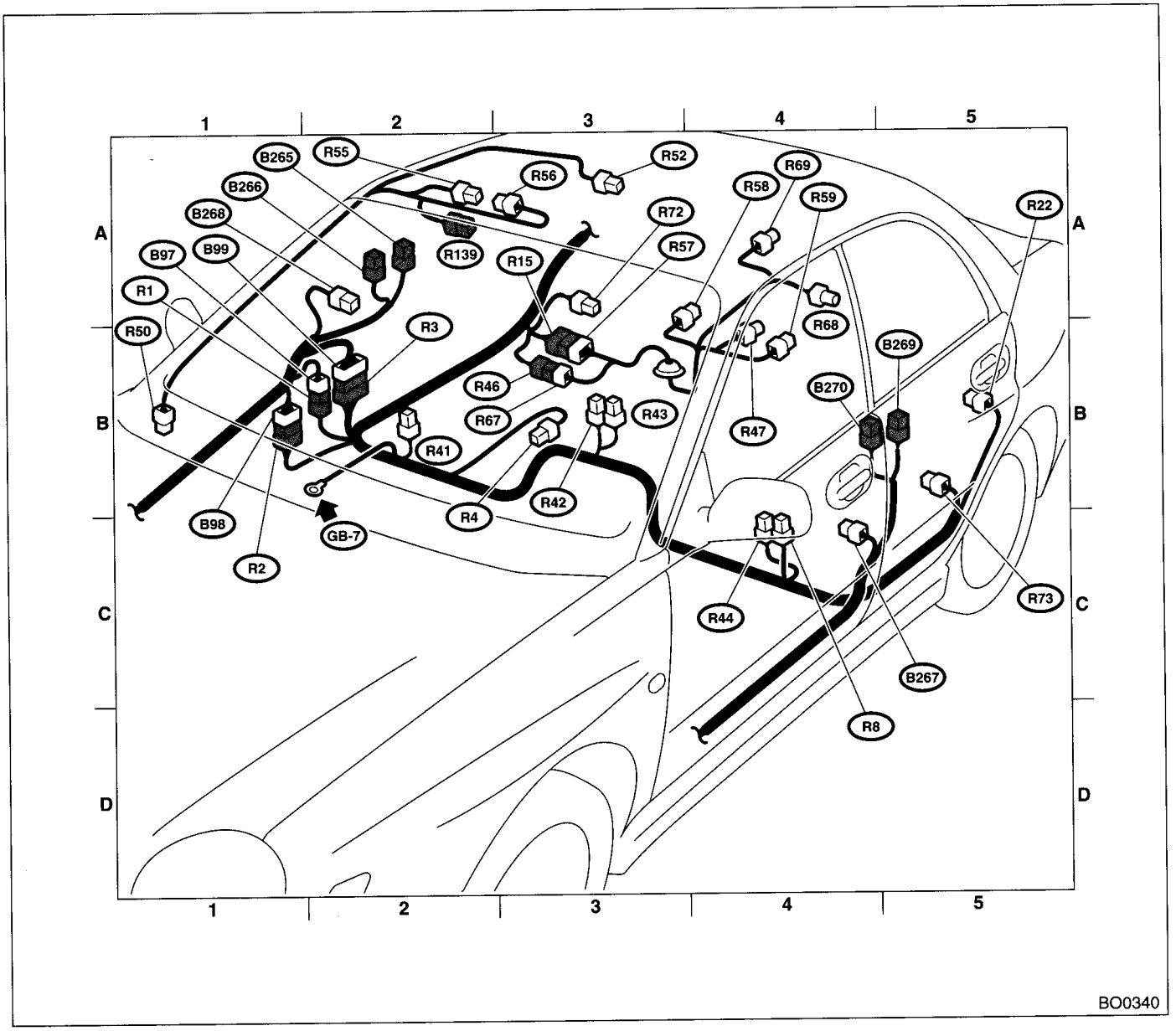
Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R1	8	★	B-2	B97	Bulkhead wiring harness
R2	12	★	B-1	B98	
R3	24	★	B-2	B99	
R4	1	★	B-3		Parking brake switch
R8	2	★	C-4		Seat belt switch
R15	12	★	B-3	R57	Fuel tank cord
R22	3	★	B-5		Rear door switch LH
R41	4	Blue	B-2		Seat heater RH
R42	4	★	B-3		Seat heater switch RH
R43	4	Blue	B-3		Seat heater switch LH
R44	4	Blue	C-4		Seat heater LH
R46	2	★	B-3	R67	Fuel tank cord
R72	2	★	A-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	★	A-2	D27	Rear door cord RH
B266	3	★	A-2	D28	
B267	3	★	C-4		Front door switch LH
B268	3	★	A-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	12	★	B-3	R15	Rear wiring harness
R58	6	★	A-4		Fuel pump assembly
R59	2	★	B-4		Fuel sub level sensor
R67	2	★	B-3	R46	Rear wiring harness
R68	2	★	A-4		Pressure control solenoid valve
R69	2	★	A-4		Drain valve

★: Non-colored



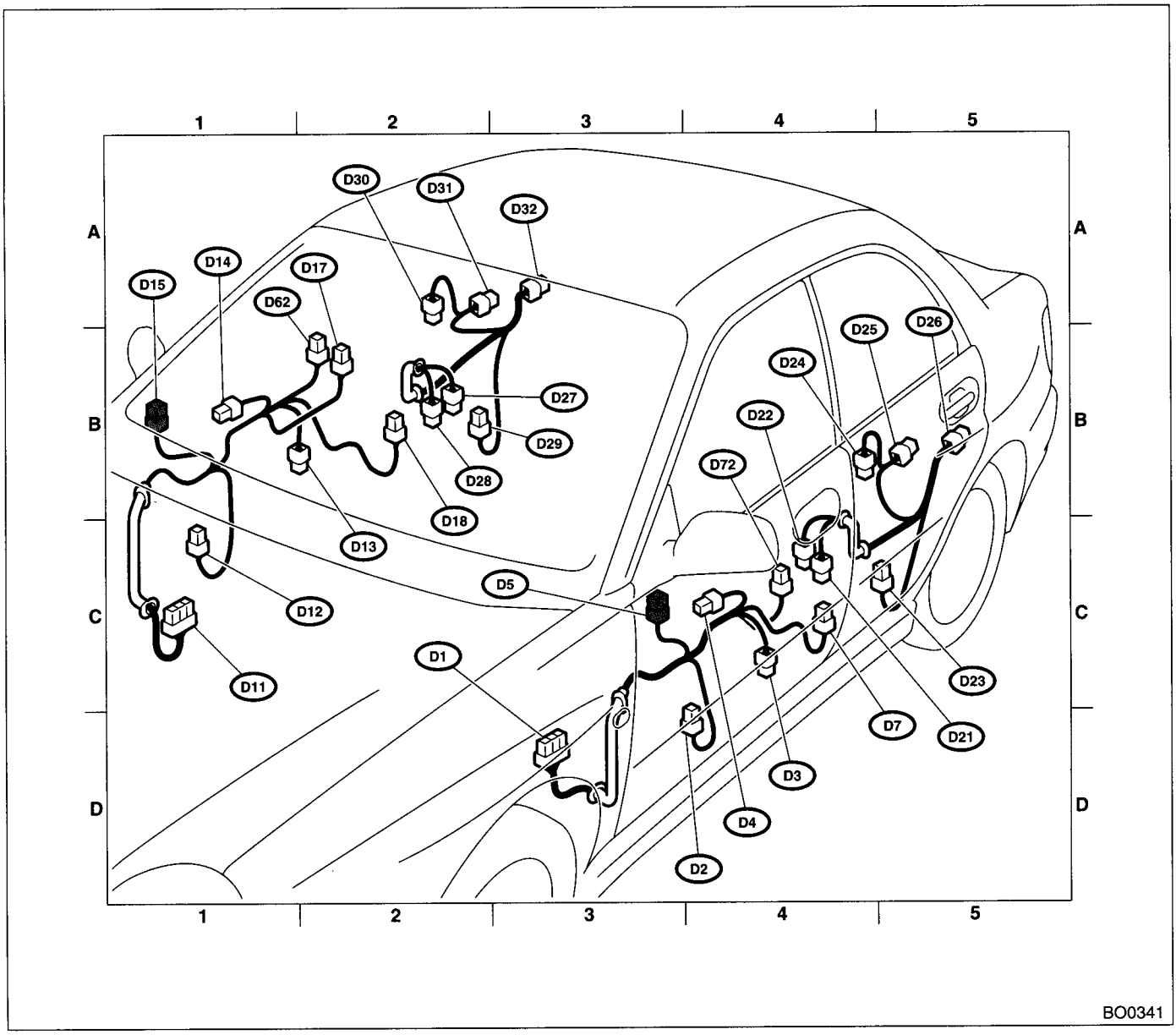
BO0340

52.Door Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
D1	25	★	D-3	B30	Bulkhead wiring harness
D2	2	★	D-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	A-2		Rear power window motor RH
D31	8	★	A-2		Rear power window sub switch RH
D32	4	★	A-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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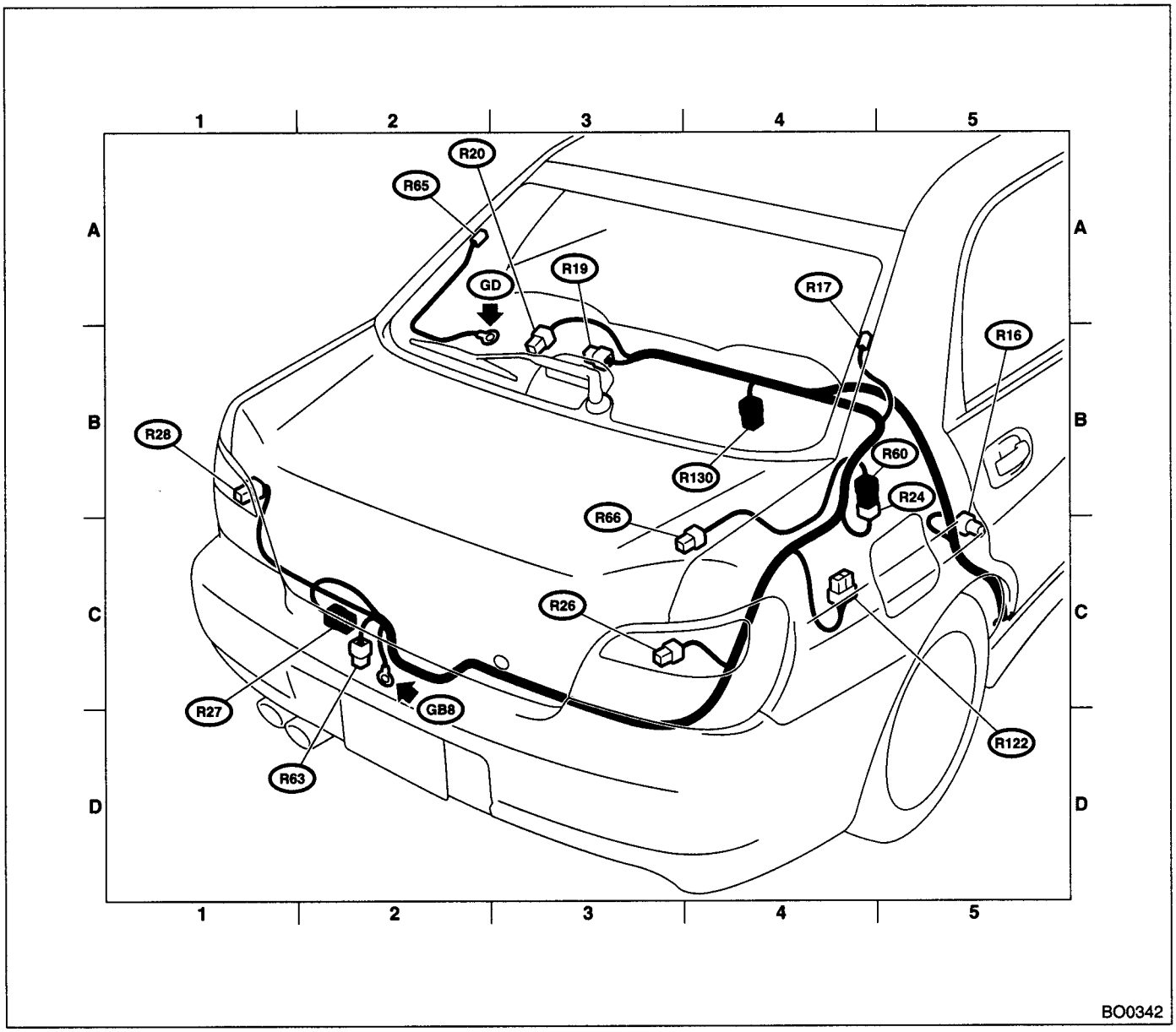
53.Rear Wiring Harness and Trunk Lid Cord

A: LOCATION

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

★: Non-colored

REAR WIRING HARNESS AND TRUNK LID CORD

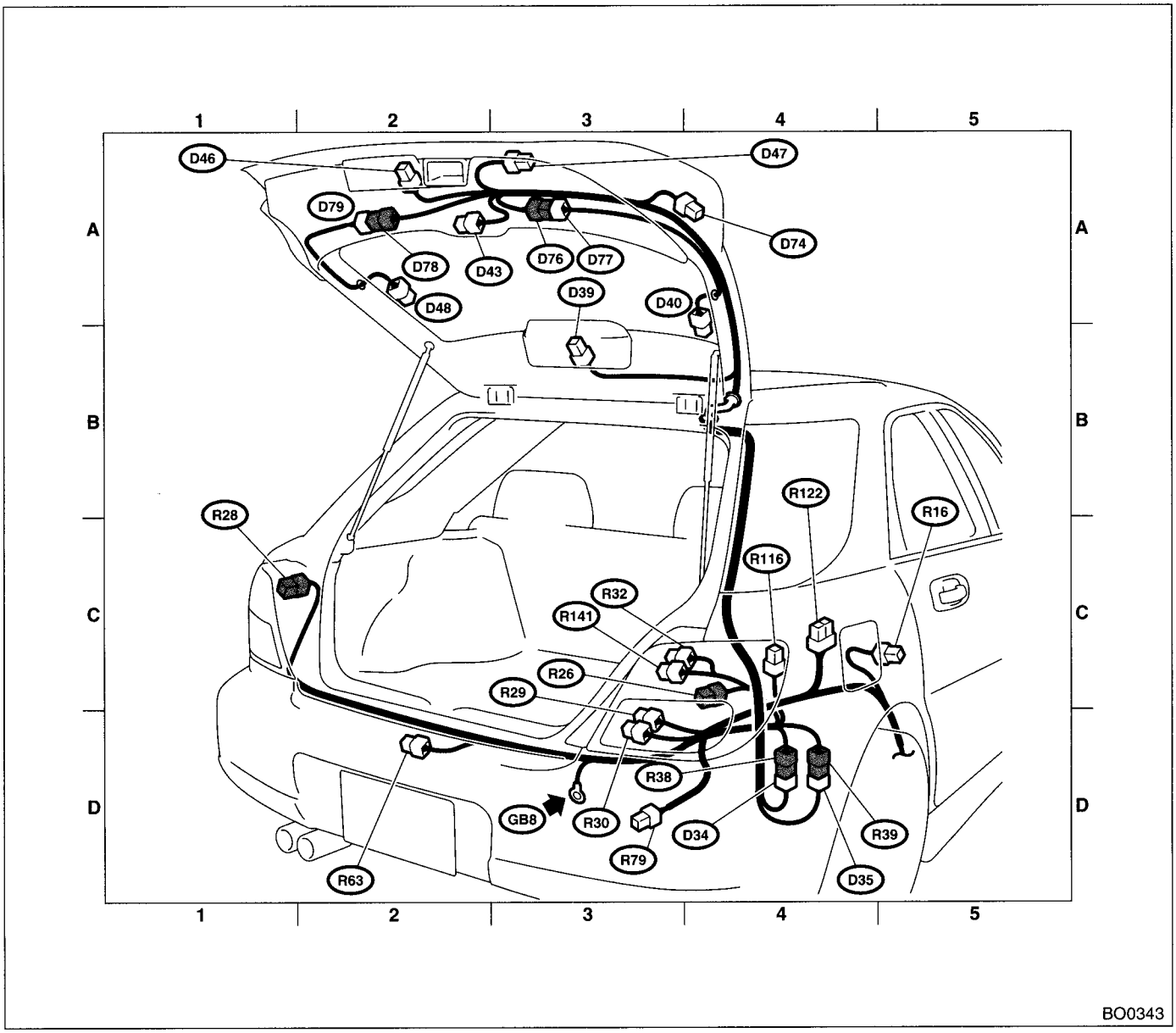


54.Rear Wiring Harness and Rear Gate Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R16	3	★	C-5		Rear door switch RH
R26	6	★	C-4		Rear combination light RH
R28	6	★	C-1		Rear combination light LH
R29	2	★	D-3		Diode (Luggage room light-2)
R30	2	★	D-3		Diode (Luggage room light-1)
R32	2	★	C-3		Rear accessory power supply socket
R38	6	★	D-4	D34	Rear gate cord
R39	4	★	D-4	D35	
R63	2	Black	D-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	★	D-4	R38	Rear wiring harness
D35	4	★	D-4	R39	
D39	2	★	B-3		High-mounted stop light
D40	1	★	A-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	★	A-2		Rear defogger (Ground-without choke coil model)
D74	2	★	A-4		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					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