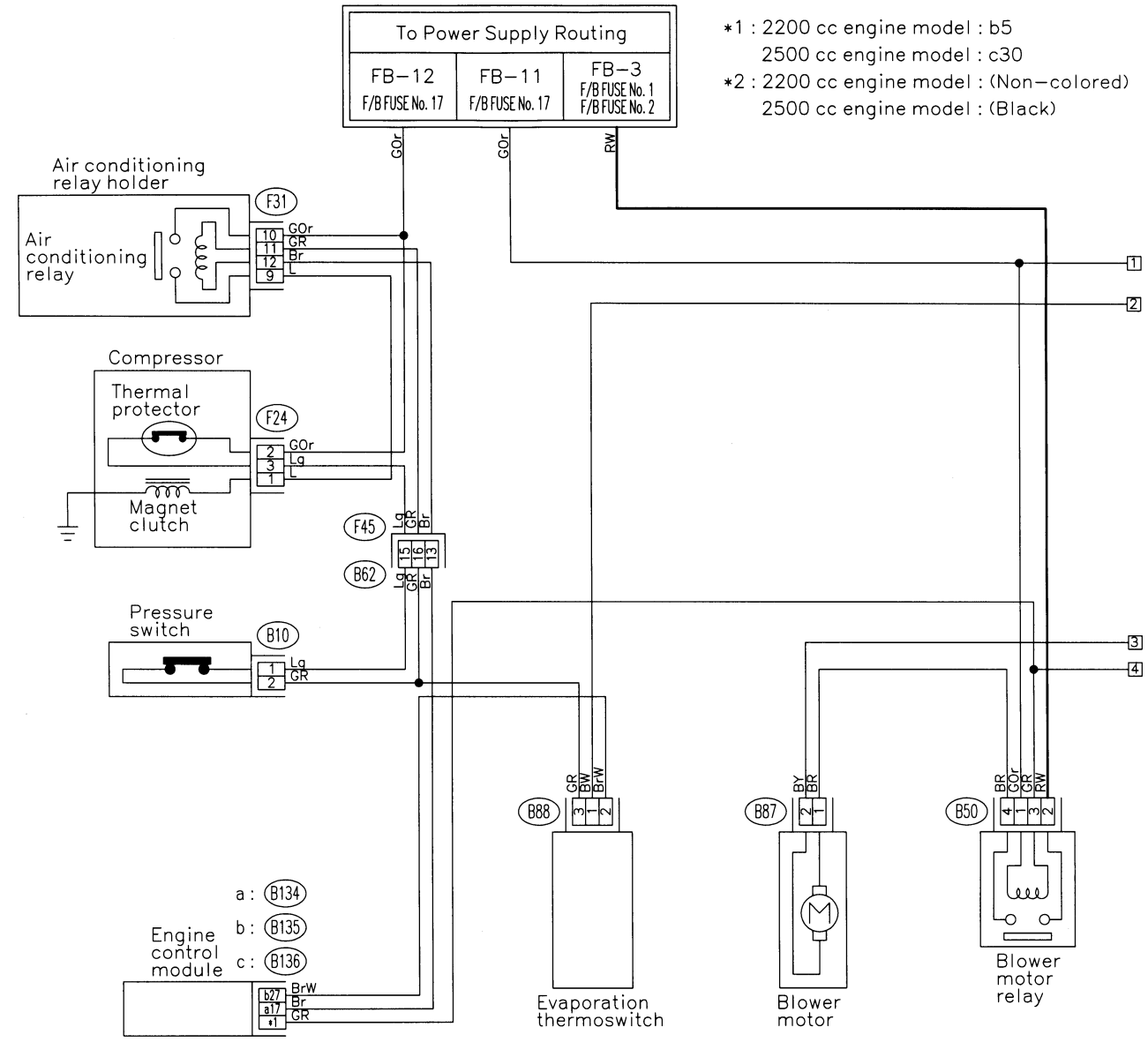
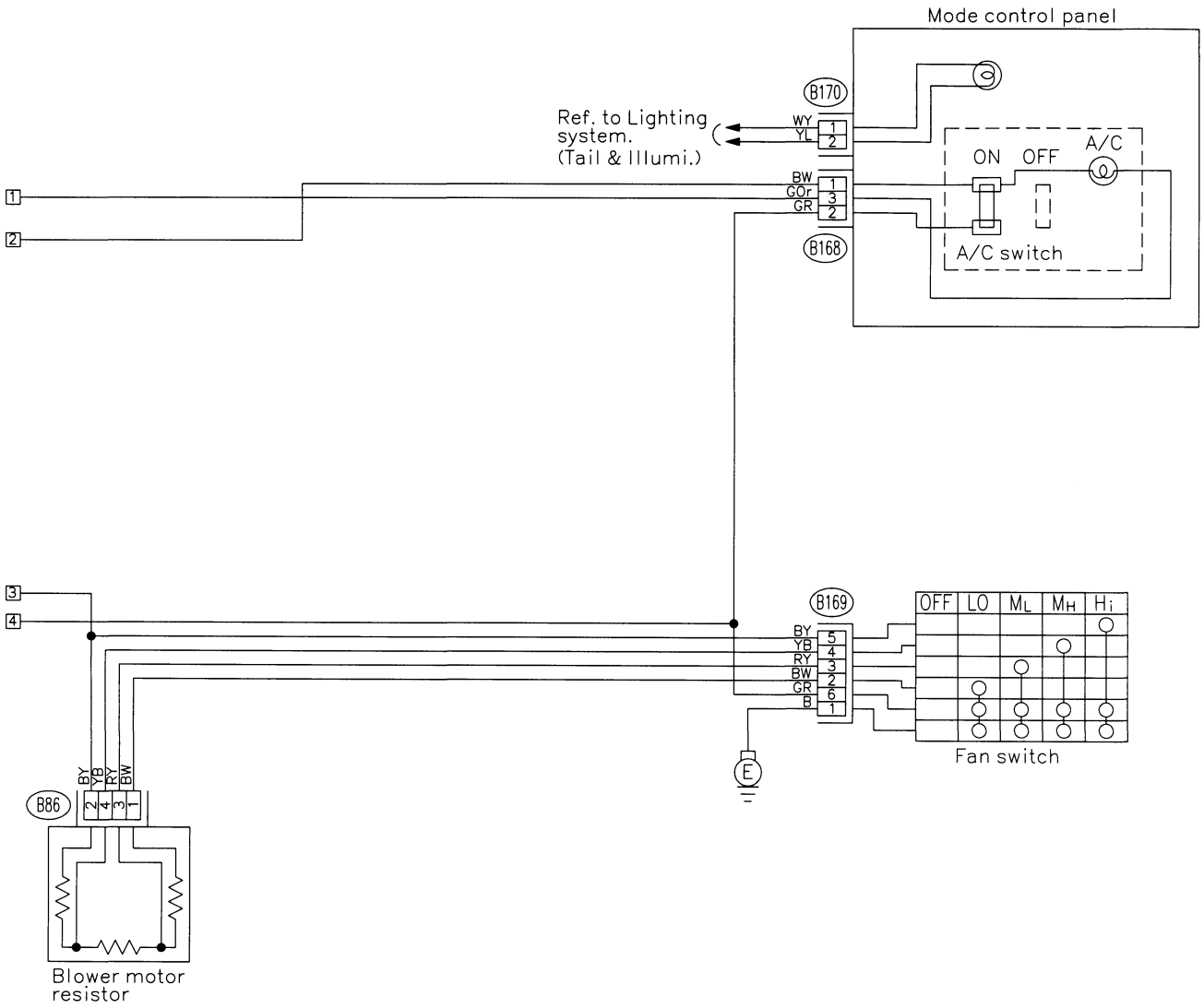
6. Air Conditioning System S903471

A: SCHEMATIC S903471A21



GU45−07A

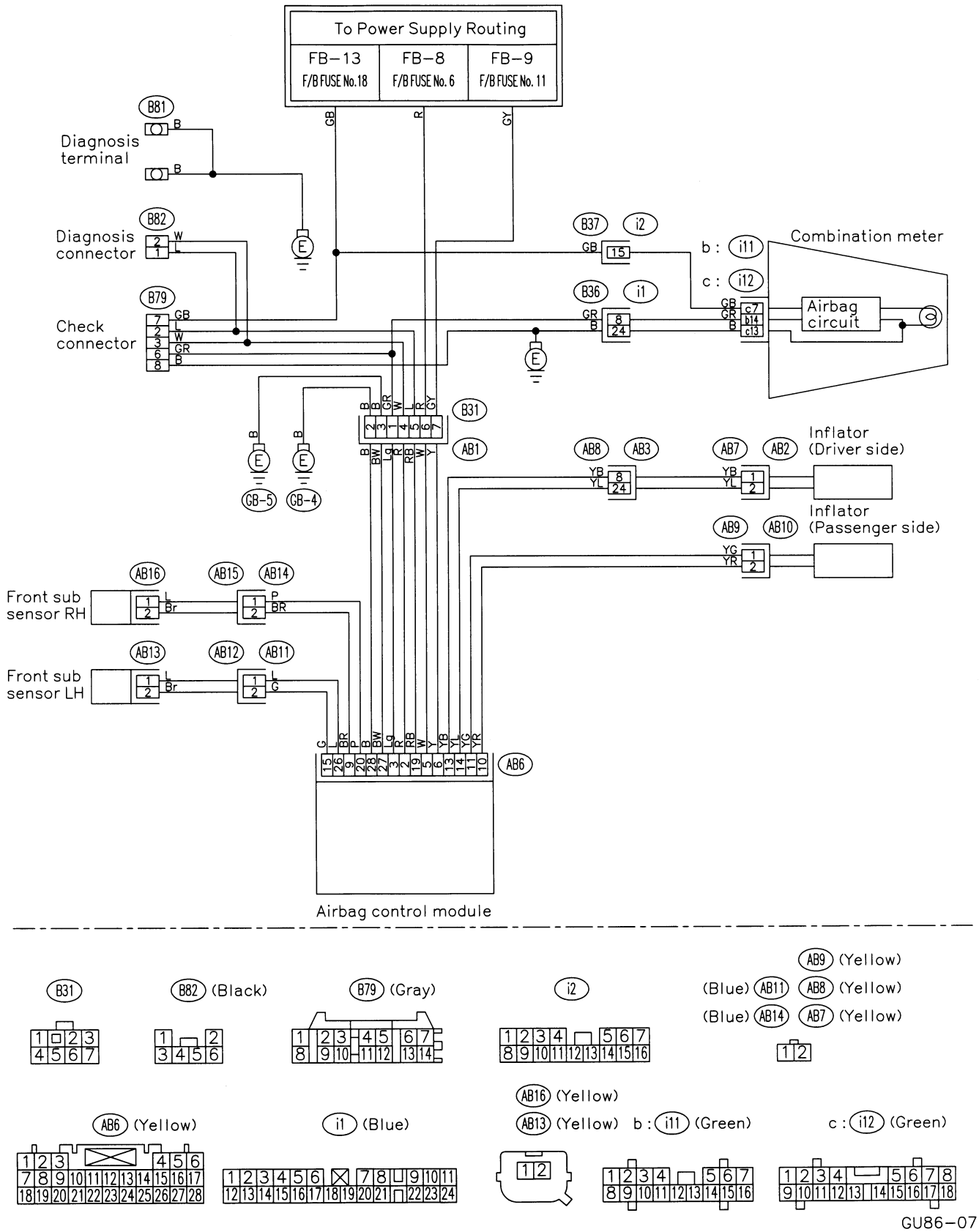

Mode control panel
B170
Ref. to Lighting system. (Tail & Illumi.)
WY
YL
BW
GOr
GR
B168
ON
OFF
A/C
A/C switch
1
2
3
4
B169
BY
YB
RY
BW
GR
B
OFF
LO
ML
MH
Hi
Fan switch
E
B86
Blower motor resistor

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

GU45–07B

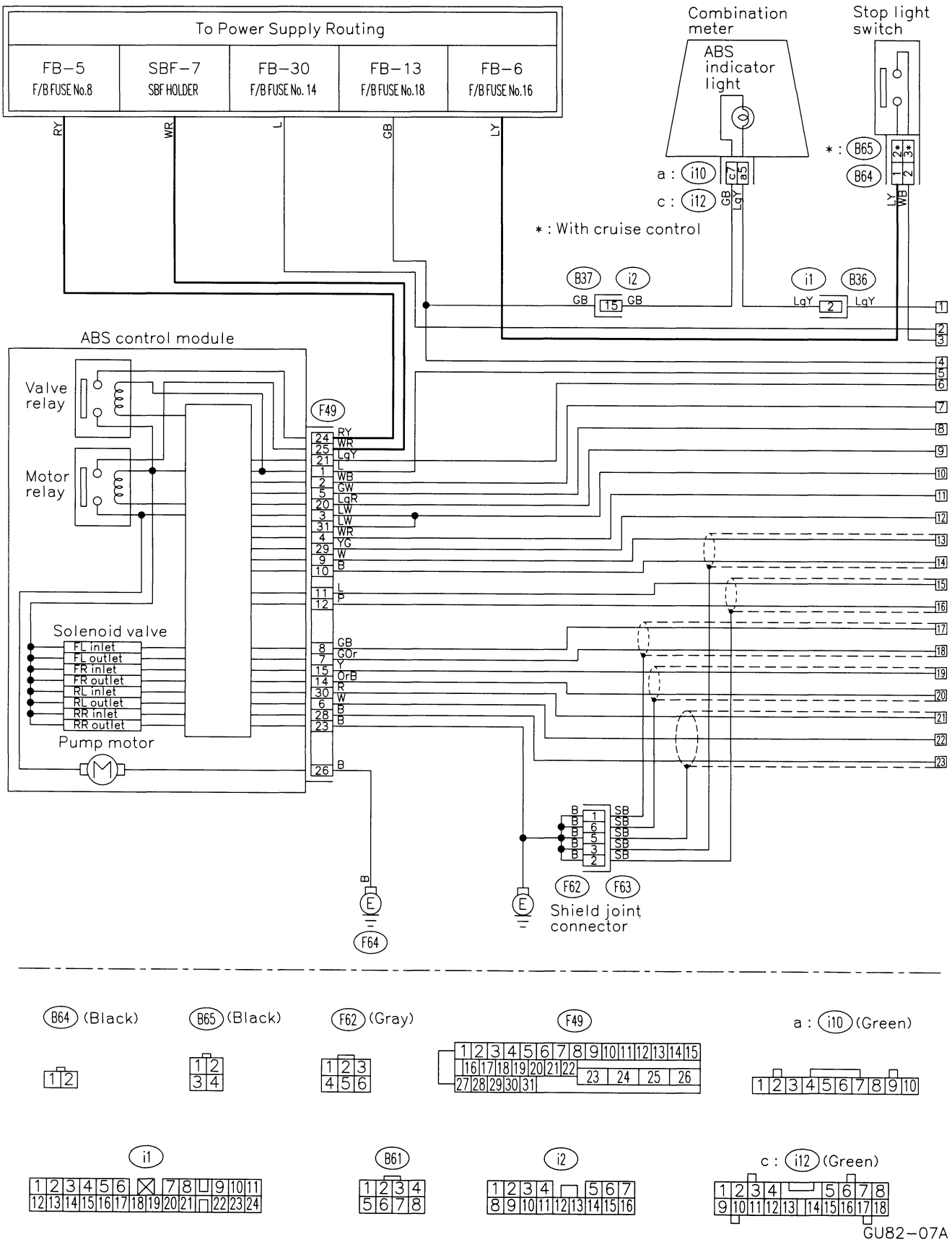
5. Airbag System S903491

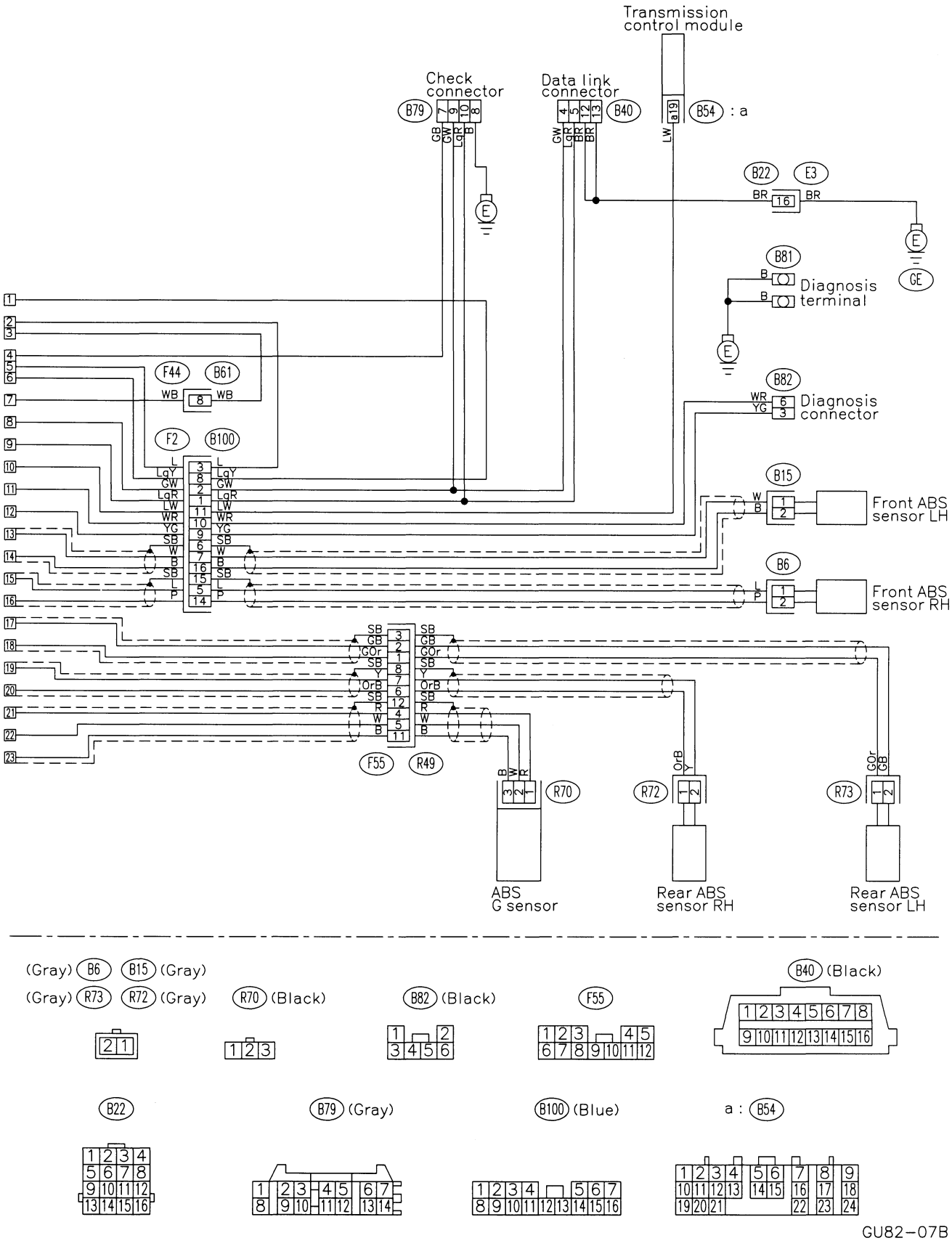
A: SCHEMATIC S903491A21



7. Anti-lock Brake System S903484

A: SCHEMATIC S903484A21

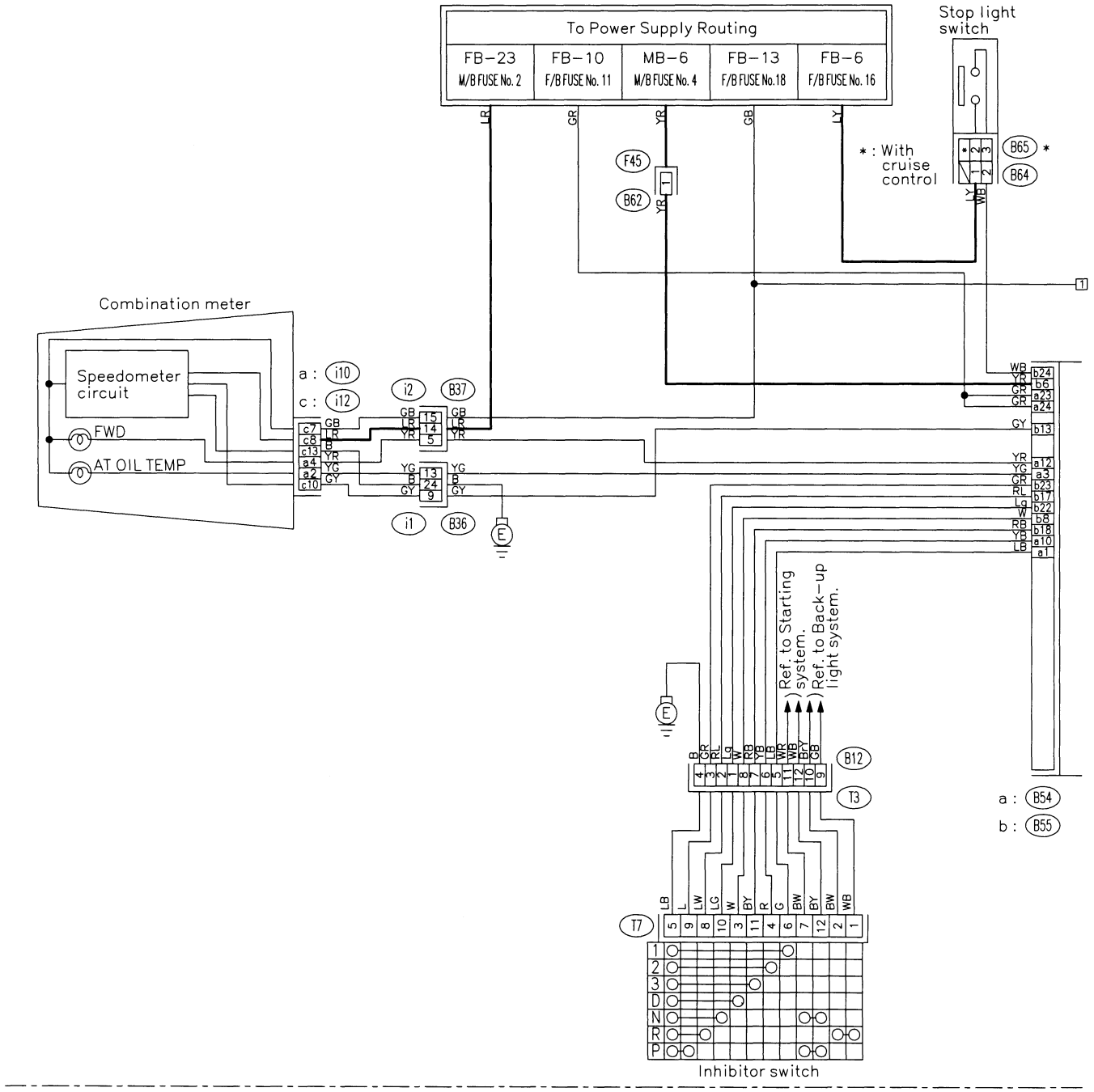


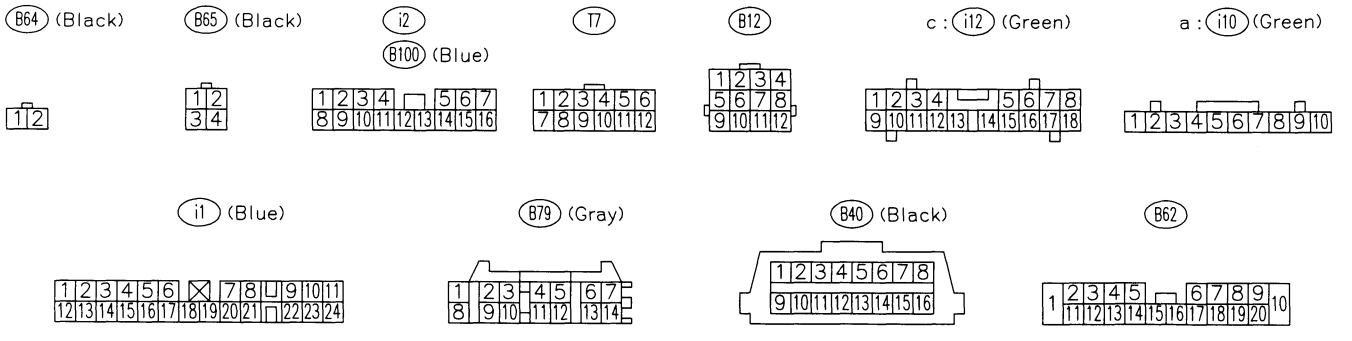

Transmission control module
Check connector
Data link connector
B79
B40
B54 : a
B22
E3
B81
Diagnosis terminal
B82
Diagnosis connector
F44
B61
F2
B100
B15
Front ABS sensor LH
B6
Front ABS sensor RH
F55
R49
R70
R72
R73
ABS G sensor
Rear ABS sensor RH
Rear ABS sensor LH
(Gray) B6 B15 (Gray)
(Gray) R73 R72 (Gray)
R70 (Black)
B82 (Black)
F55
B40 (Black)
B22
B79 (Gray)
B100 (Blue)
a : B54

GU82-07B

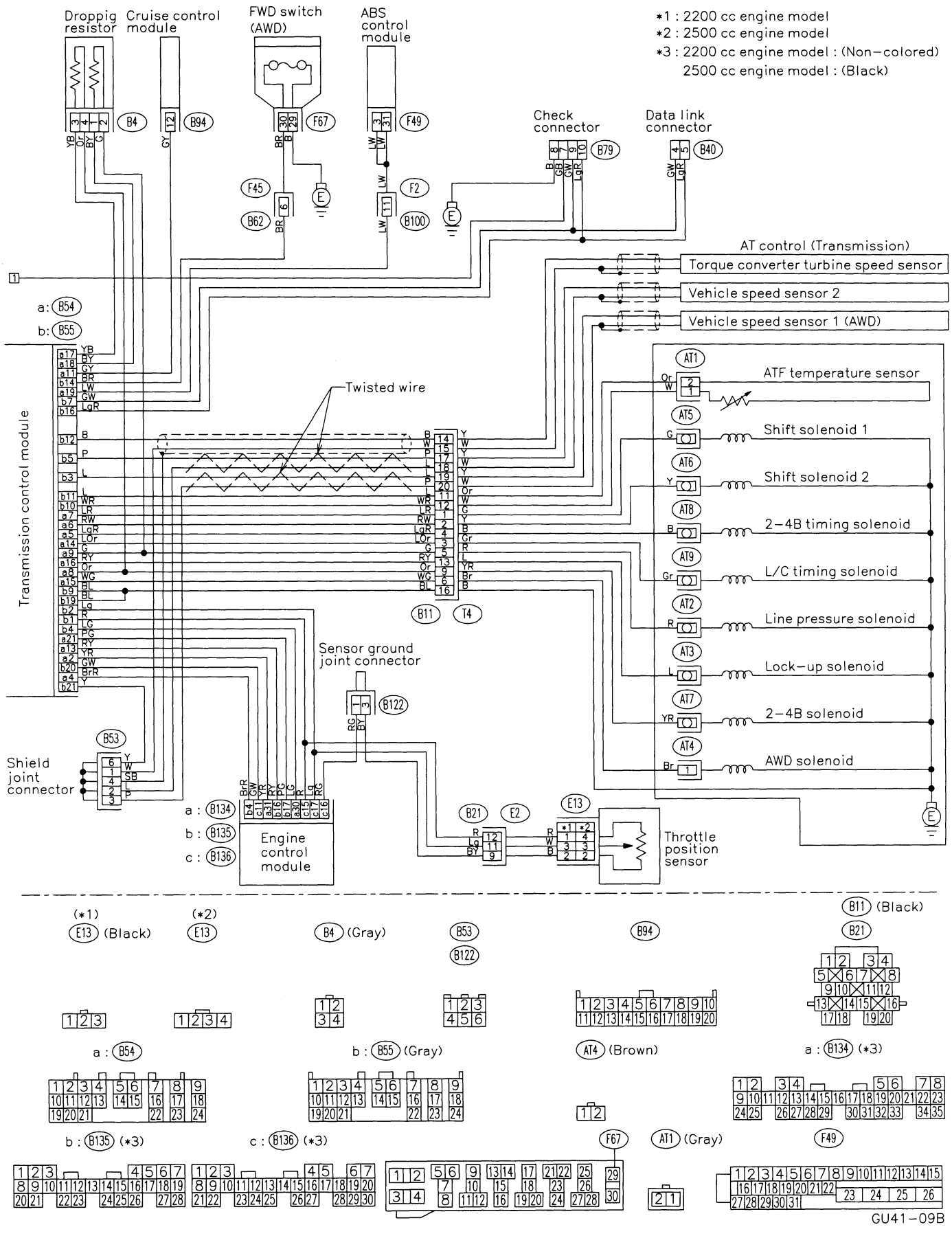
8. A/T Control System S903485

A: SCHEMATIC S903485A21



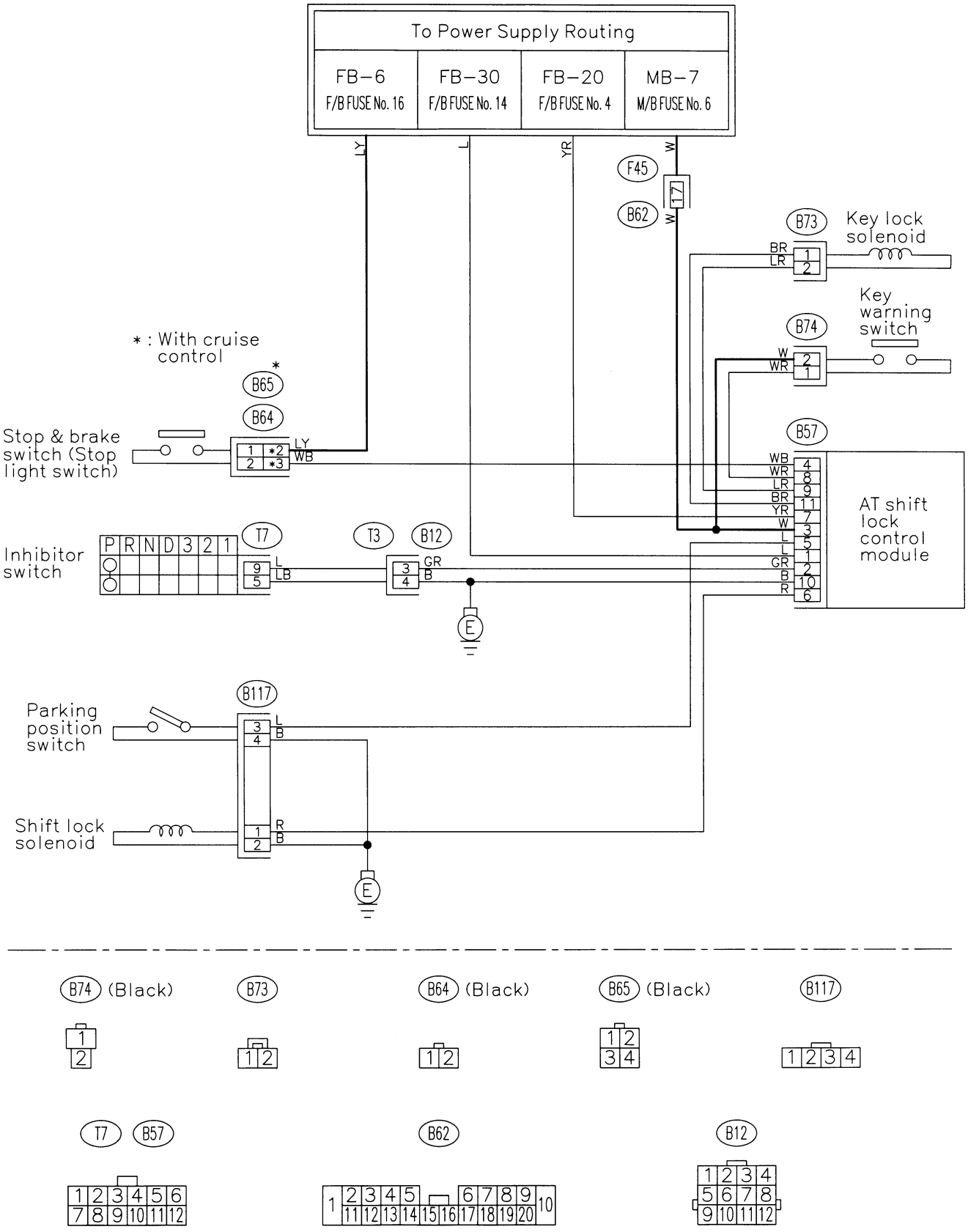


GU41–09A


*1 : 2200 cc engine model
*2 : 2500 cc engine model
*3 : 2200 cc engine model : (Non−colored)
2500 cc engine model : (Black)
Droppig resistor
Cruise control module
FWD switch (AWD)
ABS control module
Check connector
Data link connector
AT control (Transmission)
Torque converter turbine speed sensor
Vehicle speed sensor 2
Vehicle speed sensor 1 (AWD)
Transmission control module
Twisted wire
ATF temperature sensor
Shift solenoid 1
Shift solenoid 2
2−4B timing solenoid
L/C timing solenoid
Line pressure solenoid
Lock−up solenoid
2−4B solenoid
AWD solenoid
Sensor ground joint connector
Shield joint connector
Engine control module
Throttle position sensor
(Black)
(Gray)
(Brown)
(Gray)
GU41−09B

9. A/T Shift Lock Control System S903662

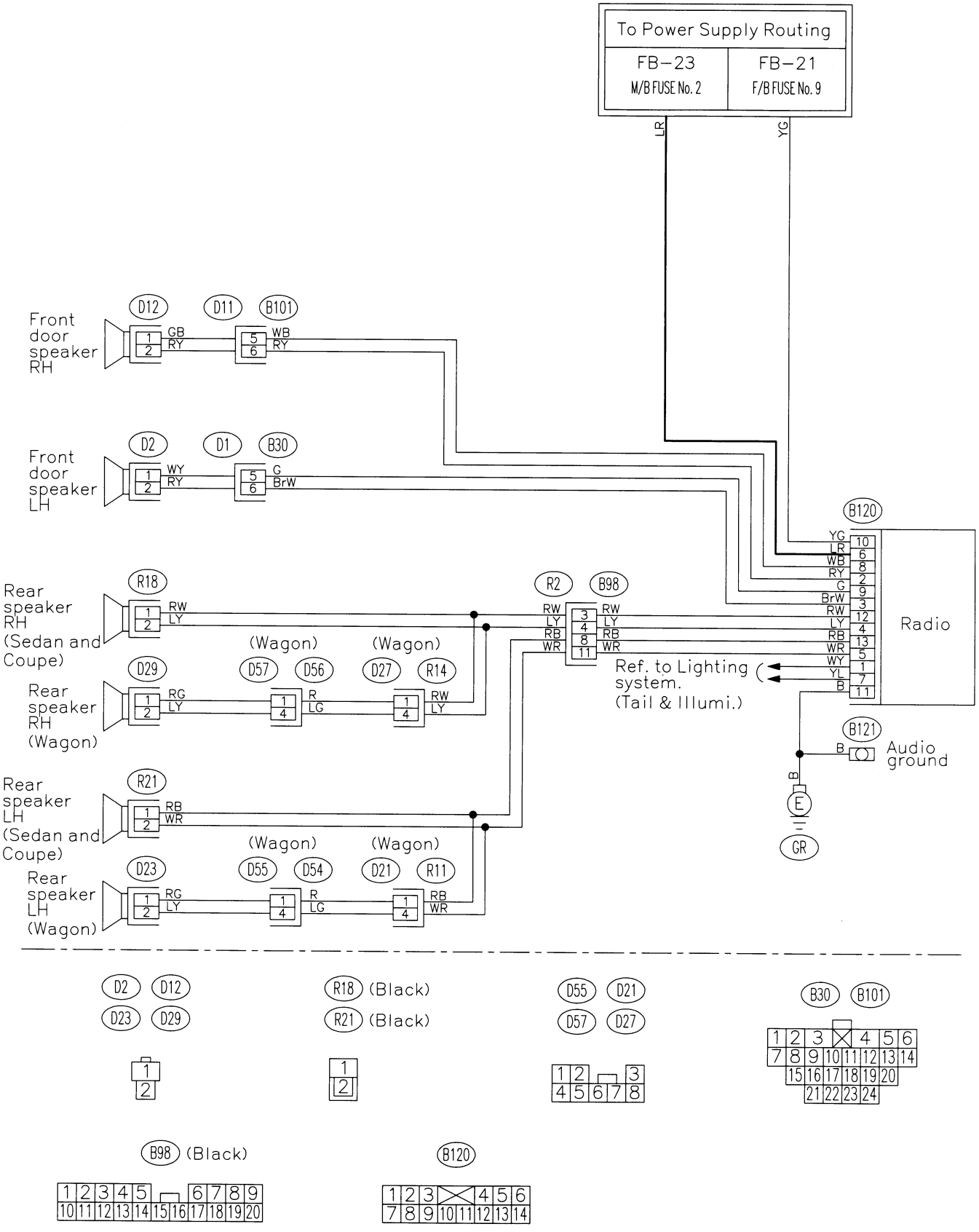
A: SCHEMATIC S903662A21



GU42−07

10. Audio System S903486

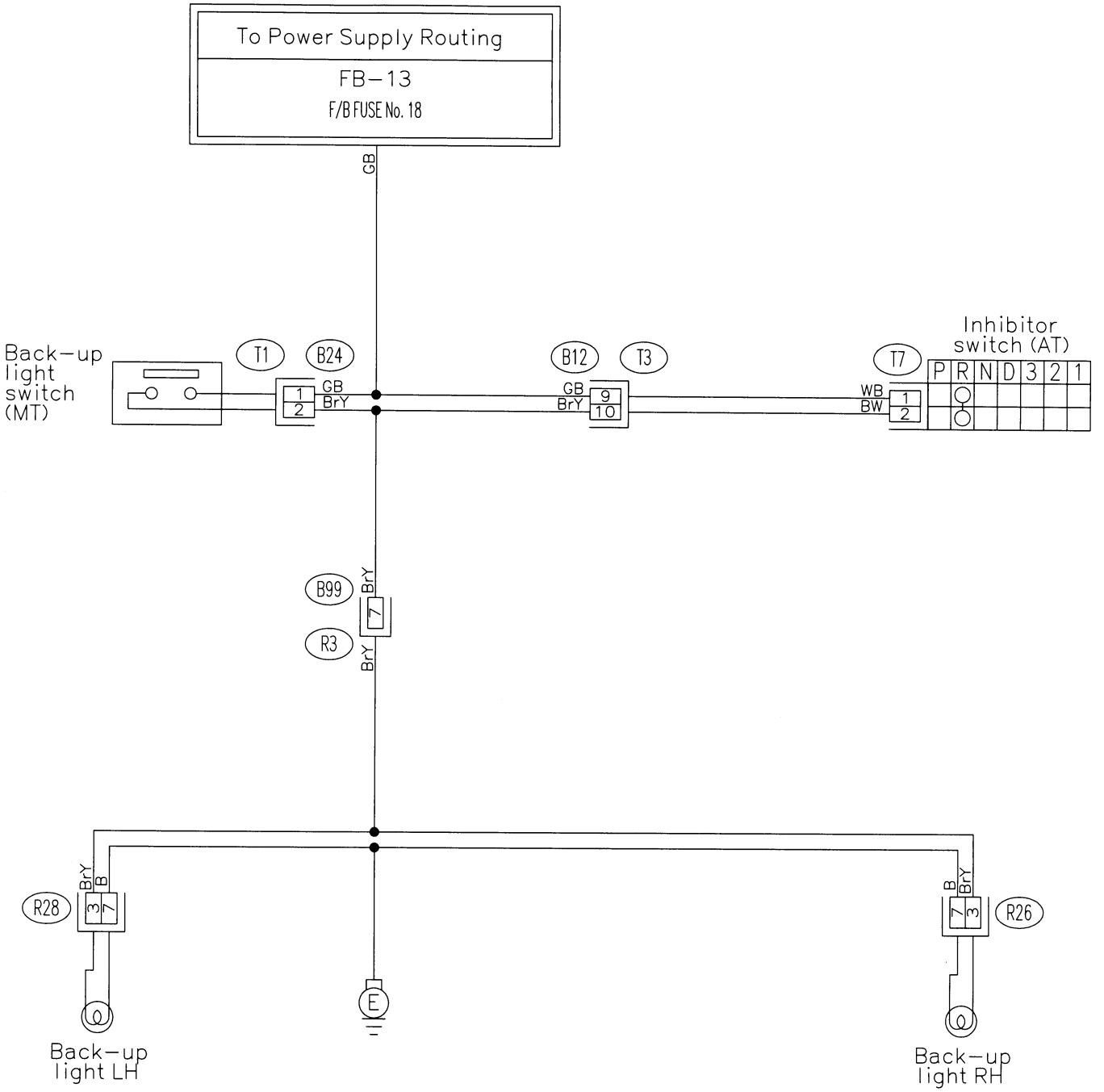
A: SCHEMATIC S903486A21

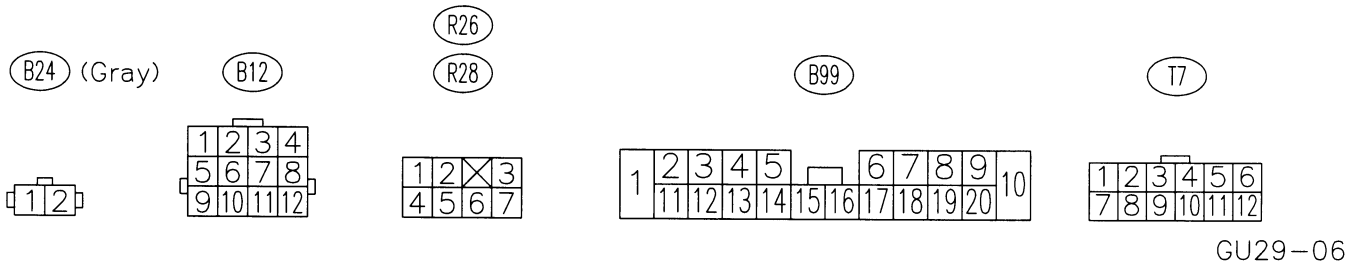


GU76−06

19. Back-up Light System S903414

A: SCHEMATIC S903414A21





GU29−06

1. Basic Diagnostics Procedure

S903627

A: BASIC PROCEDURES S903267E31

1. GENERAL S903267E3101

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

2. IDENTIFICATION OF TROUBLE SYMPTOM S903627E3102

Determine what the problem is based on the symptom.

3. PROBABLE CAUSE OF TROUBLE

S903627E3103

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

4. LOCATION AND REPAIR OF TROUBLE

S903627E3104

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

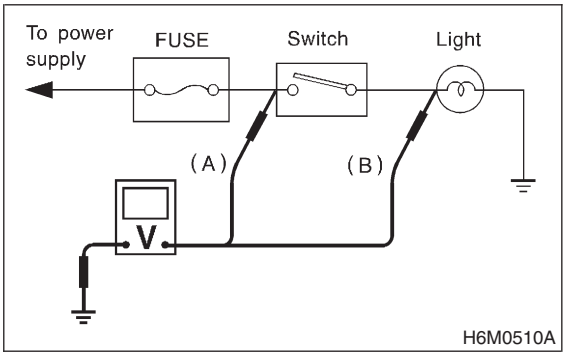
5. CONFIRMATION OF SYSTEM OPERATION S903267E3105

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION S903627G51

1. VOLTAGE MEASUREMENT S903627G5101

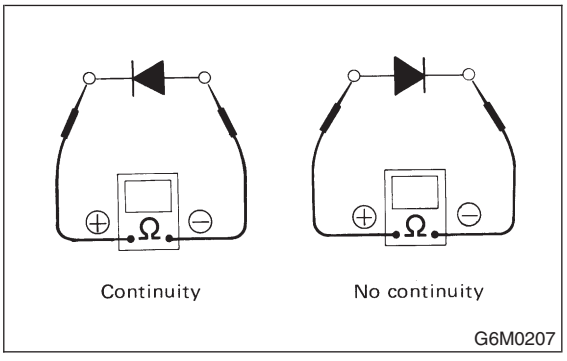
1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
2) Contact the positive probe of the voltmeter on connector (A).
The voltmeter will indicate a voltage.
3) Shift the positive probe to connector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



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

2. CIRCUIT CONTINUITY CHECKS S903627G5102

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

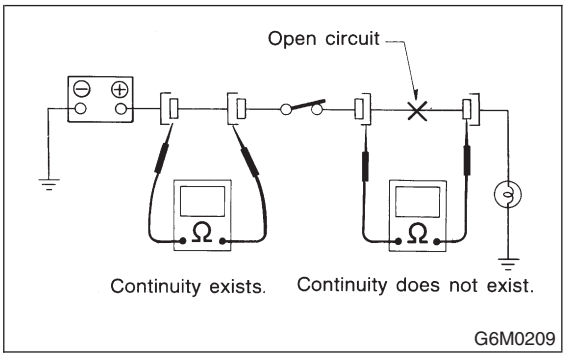


3) Symbol "○—○" indicates that continuity exists between two points or terminals. For example, when a switch position is "3", continuity exists among terminals 1, 3 and 6, as shown in table below.

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

B6M0749

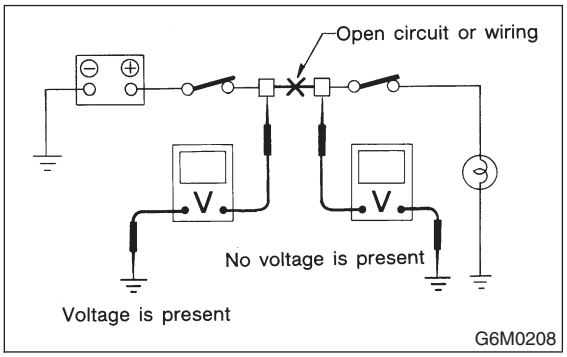
2) Ohmmeter method:
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



G6M0209

3. HOW TO DETERMINE AN OPEN CIRCUIT S903627G5103

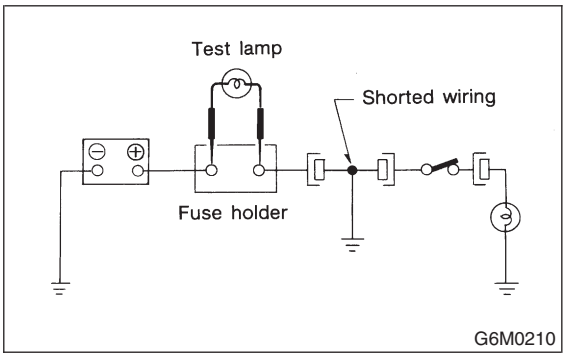
1) Voltmeter Method:
An open circuit is determined by measuring the voltage between respective connectors and ground using a voltmeter, starting with the connector closest to the power supply. The power supply must be turned ON so that current flows in the circuit. If voltage is not present between a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



G6M0208

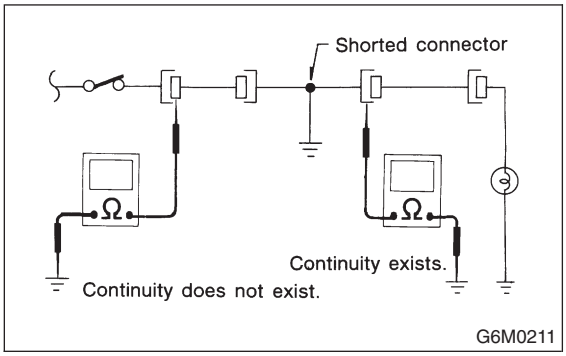
4. HOW TO DETERMINE A SHORT CIRCUIT S903627G5104

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



G6M0210

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

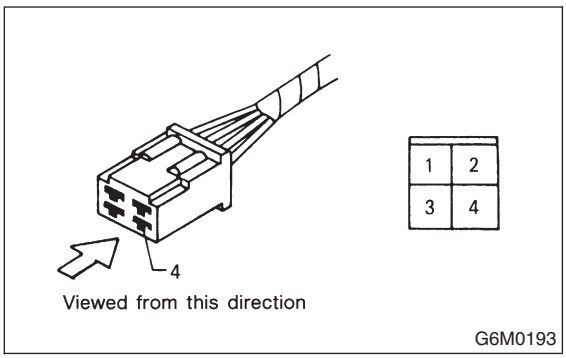


C: HOW TO READ WIRING DIAGRAMS S903627G52

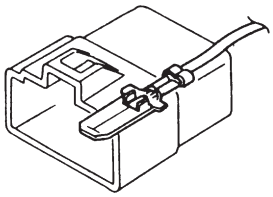
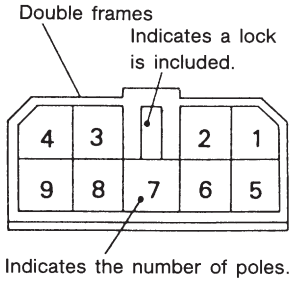
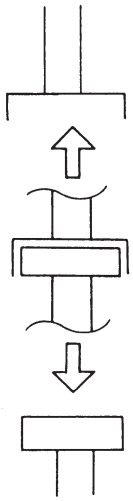
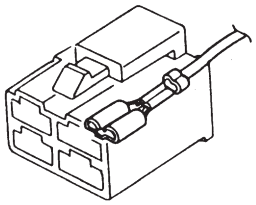
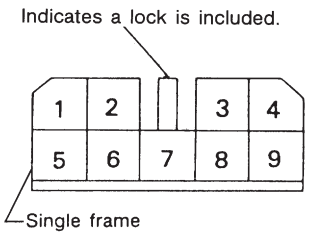
1. WIRING DIAGRAM S903627G5201

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

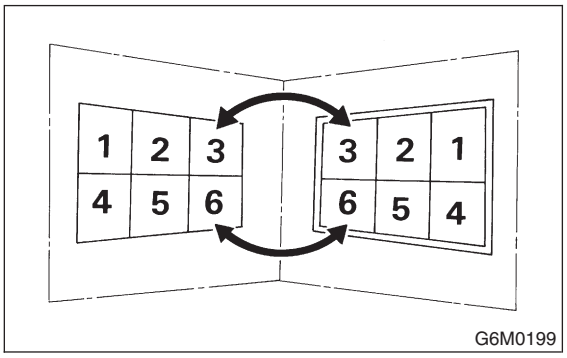
- Each connector and its terminal position are indicated by a sketch of the connector in a disconnected state which is viewed from the front.



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

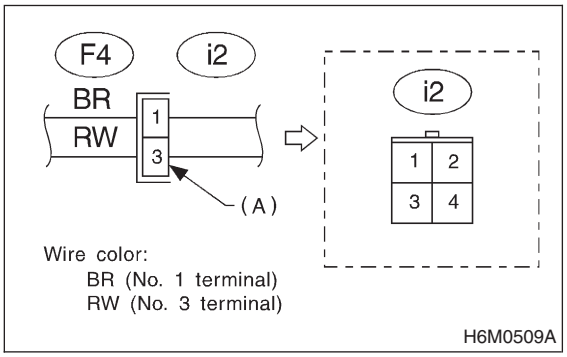
Connector used in vehicle	Connector shown in wiring diagram		
	Sketch	Symbol	Number of poles
 G6M0194	 G6M0196	 G6M0198	Numbered in order from upper right to lower left.
 G6M0195	 G6M0197		Numbered in order from upper left to lower right.

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

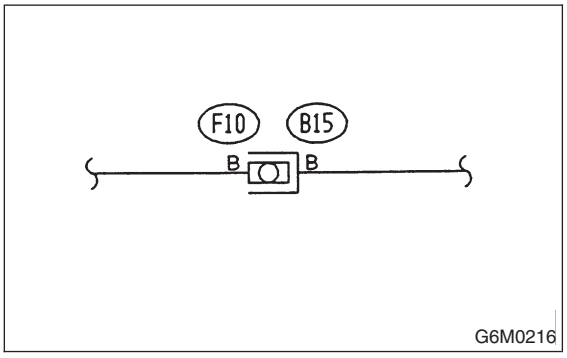


● Electrical wiring harness:
The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.
● The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal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

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

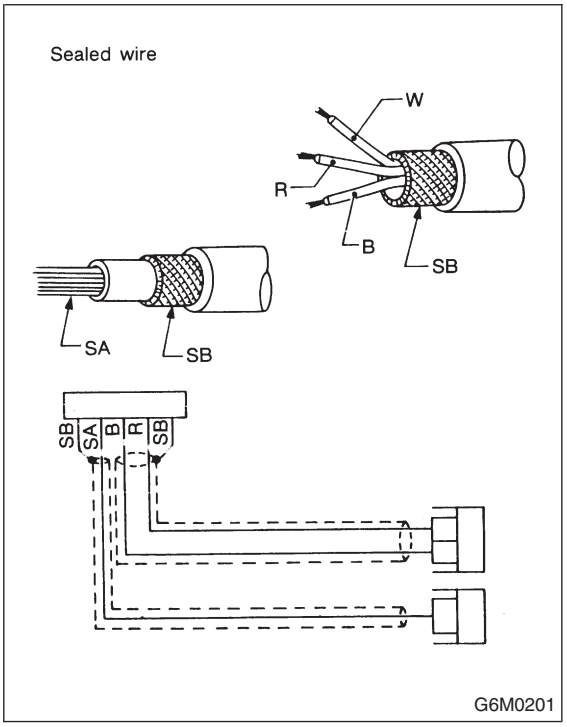


● In wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

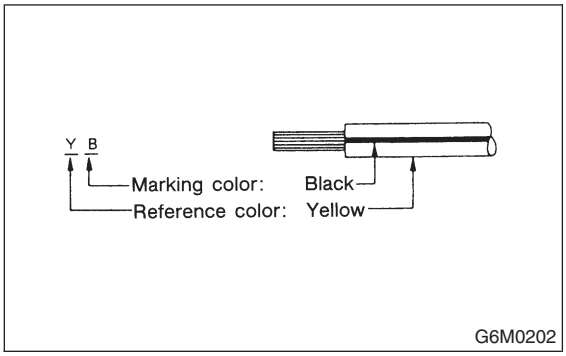


● The following color codes are used to indicate the colors of the wires used.

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



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



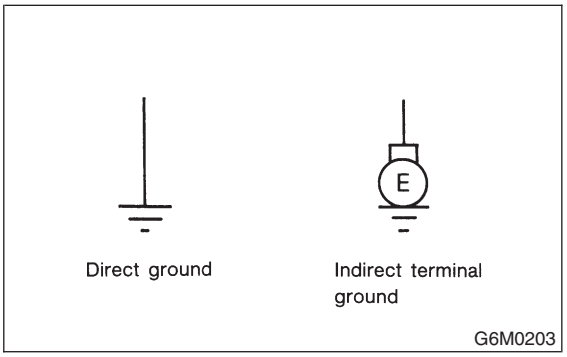
● The table lists the nominal sectional areas and allowable currents of the wires.

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

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

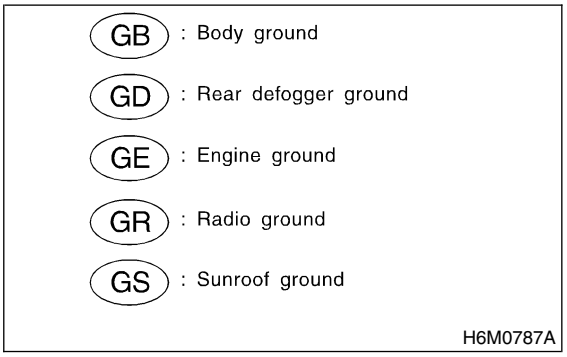
Nominal sectional area mm^2	No. of strands/ strand diameter	Outside diameter of finished wiring mm	Allowable current Amps/ 40°C (104°F)
0.3	7/0.26	1.8	7
0.5	7/0.32	2.2 (or 2.0)	12
0.75	30/0.18	2.6 (or 2.4)	16
0.85	11/0.32	2.4 (or 2.2)	16
1.25	16/0.32	2.7 (or 2.5)	21
2	26/0.32	3.1 (or 2.9)	28
3	41/0.32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

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

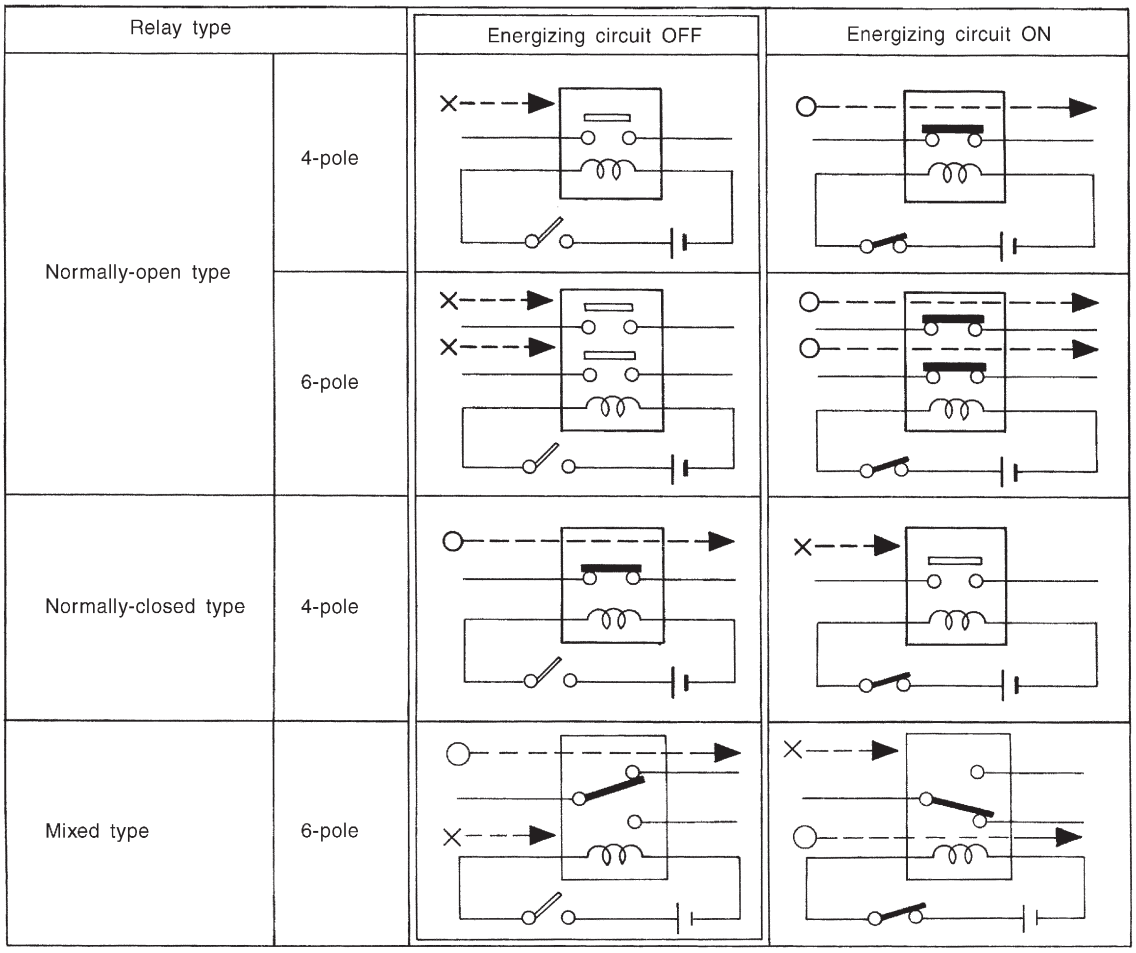


● The ground points shown in the wiring diagram refer to the following:

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



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



Key to symbols:

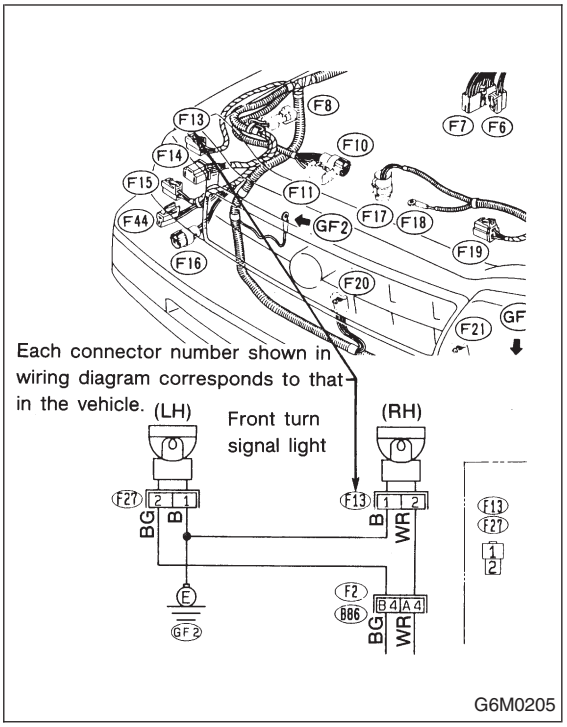
○ ⟶ : Current flows.

× ⟶ : Current does not flow.

B6M0748

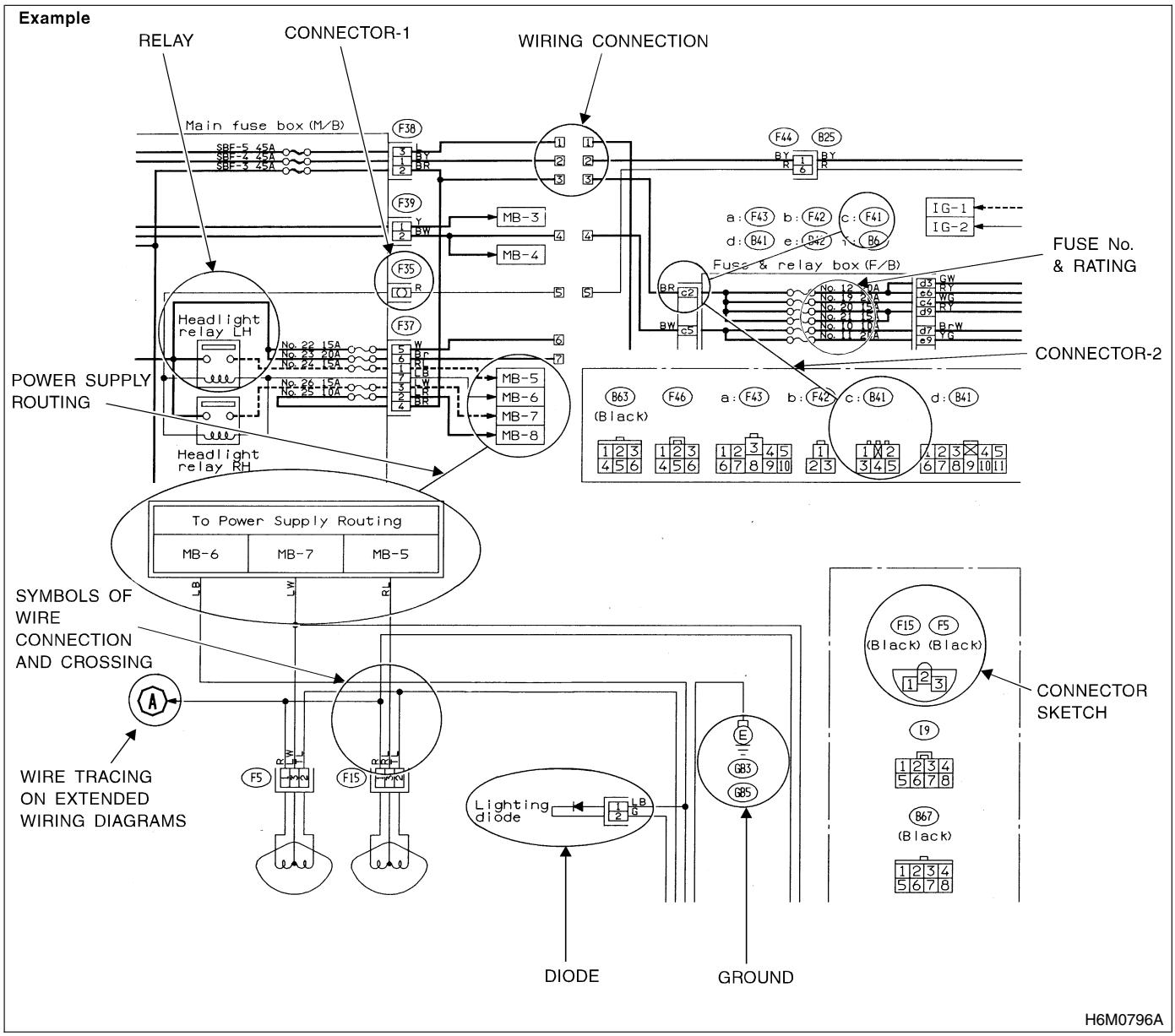
● Each connector number shown in the wiring diagram corresponds to that in the wiring harness. The location of each connector in the actual vehicle is determined by reading the first character of the connector (for example, a “F” for F8, “i” for i16, etc.) and the type of wiring harness.
The first character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

Symbol	Wiring harness and cord
F	Front wiring harness
B	Bulkhead wiring harness
E	Engine wiring harness Oxygen sensor cord
T	Transmission cord
D	Door cord LH & RH Rear door cord LH & RH
i	Instrument panel wiring harness
R	Rear wiring harness Rear defogger cord (Ground) Fuel tank cord Roof cord Rear gate cord Rear gate lock adapter cord



D: SYMBOLS IN WIRING DIAGRAMS S903627G53

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



1. RELAY S903627G5301

A symbol used to indicate a relay.

2. CONNECTOR-1 S903627G5302

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

3. WIRING CONNECTION S903627G5303

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

4. FUSE No. & RATING G903627G5304

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

5. CONNECTOR-2 S903627G5305

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

6. CONNECTOR SKETCH S903627G5306

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

7. GROUND S903627G5307

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

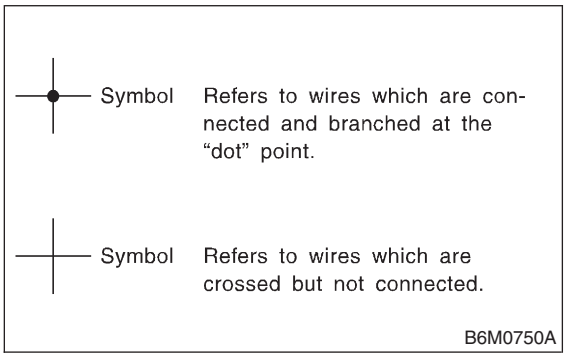
8. DIODE S903627G5308

A symbol is used to indicate a diode.

9. WIRE TRACING ON EXTENDED WIRING DIAGRAMS S903627G5309

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

10. SYMBOLS OF WIRE CONNECTION AND CROSSING S903627G5310



11. POWER SUPPLY ROUTING S903627G5311

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

E: ABBREVIATION IN WIRING DIAGRAMS S903627G54

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

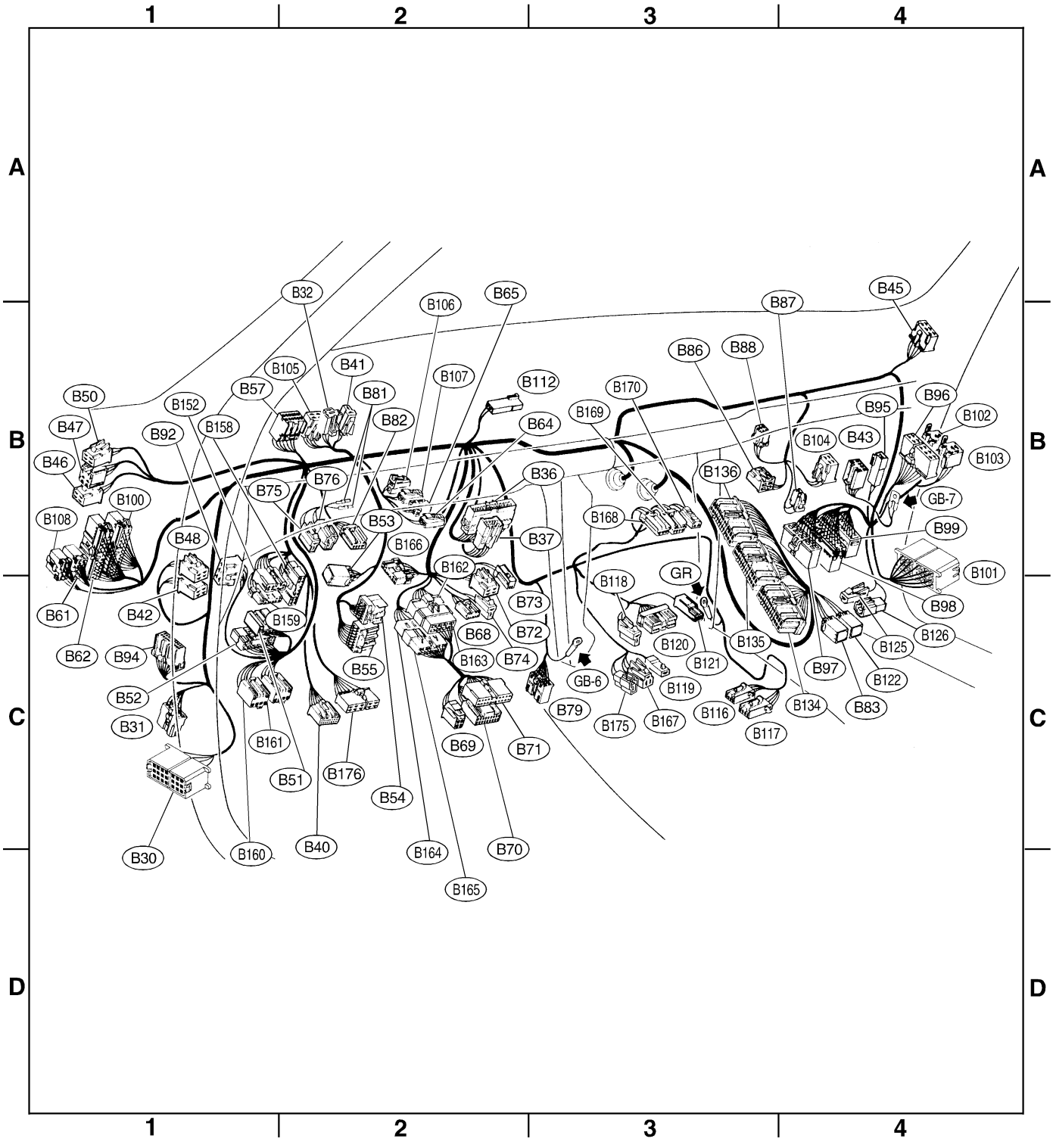
42. Bulkhead Wiring Harness (In Compartment) S903446

A: LOCATION S903446A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B30	24	★	C-1	D1	Front door cord LH
B31	7	★	C-1	AB1	SRS (Airbag) harness
B32	3	Black	B-2		Turn & hazard module
B36	24	Blue	B-2	i1	Instrument panel wiring harness
B37	16	★	B-2	i2	
B40	16	★	C-2		Data link connector
B41	2	★	B-2		Power window circuit breaker
B42	4	Blue	B-1		Power window relay
B43	6	Black	B-4		Illumination control module
B45	6	★	A-4	R53	Roof cord
B46	4	Green	B-1		Fuel pump relay
B47	6	Brown	B-1		Main relay
B48	4	Red	B-1		Front fog light relay
B50	4	★	B-1		Blower relay
B51	8	Blue	C-1		F/B
B52	12	Blue	C-1		
B53	6	★	B-2		Shield joint connector (AT)
B54	24	★	B-2		Transmission control module
B55	24	Gray	C-2		
B57	12	★	B-2		Shift lock control module (AT)
B61	8	★	B-1	F44	Front wiring harness
B62	20	★	B-1	F45	
B64	2	Black	B-2		Stop light switch
B65	4	Black	B-2		Stop & brake switch (With cruise control)
B68	5	Black	B-2		Cruise control sub switch
B69	4	★	C-2		Combination switch
B70	18	★	C-2		
B71	17	★	C-2		
B72	4	Blue	B-2		Ignition switch
B73	2	★	B-2		Key lock solenoid (AT)
B74	2	Black	B-2		Key warning switch
B75	2	Green	B-2	B76	Test mode connector
B76	2	Green	B-2	B75	
B79	14	Gray	C-3		Check connector
B81	1 × 2	★	B-2		Diagnosis terminal (Ground)
B82	6	Black	B-2		Diagnosis connector
B83	6	★	C-4		Shield joint connector (E/G)
B86	4	★	B-3		Blower motor resistor
B87	2	★	B-4		Blower motor
B88	4	Brown	B-3		Evaporator thermoswitch
B92	6	★	B-1		Door lock timer
B94	20	★	C-1		Cruise control module
B95	2	★	B-4		Diode (Daytime running light)
B96	10	★	B-4		Daytime running light control module
B97	10	Blue	B-4	R1	Rear wiring harness
B98	20	Black	B-4	R2	
B99	20	★	B-4	R3	
B100	16	Blue	B-1	F2	Front wiring harness (With ABS model)
B101	24	★	B-4	D11	Front door cord RH
B102	5	★	B-4		Daytime running light relay
B103	4	Blue	B-4		Daytime running light hi-beam relay
B104	4	Red	B-4		Rear accessory power supply relay
B105	4	Blue	B-2		Starter interlock relay (MT)
B106	2	★	B-2		Clutch switch (MT)
B107	2	Blue	B-2		Clutch switch (Cruise control)
B108	8	★	B-1	F46	Front wiring harness
B112	2	★	B-2		Diode (Front fog light)
B116	4	Black	C-3		Select lever illumination light (AT)
B117	4	★	C-3		Parking position switch & shift lock solenoid (AT)
B118	2	★	C-3		CD player illumination light
B119	1	★	C-3		Front accessory power supply (Power)
B120	14	★	C-3		Radio
B121	1	★	B-3		Audio ground
B122	6	★	C-4		Sensor ground joint connector (E/G)
B125	1	Green	B-4	B126	Test mode connector
B126	1	Green	B-4	B125	
B134	35	★	B-3		Engine control module (2200 cc engine model)
	35	Black	B-3		Engine control module (2500 cc engine model)
B135	28	★	B-3		Engine control module (2200 cc engine model)
	28	Black	B-3		Engine control module (2500 cc engine model)
B136	30	★	B-3		Engine control module (2200 cc engine model)
	30	Black	B-3		Engine control module (2500 cc engine model)
B152	7	★	B-1		F/B
B158	12	★	B-1		F/B
B159	10	Gray	B-1		F/B
B160	6	Gray	C-1		Front fog light switch
B161	6	Brown	C-1		Cruise control main switch
B162	8	★	C-2	B163	Combination switch cord
B163	8	★	C-2	B162	Bulkhead wiring harness
B164	18	★	C-2	B165	Combination switch cord
B165	18	★	C-2	B164	Bulkhead wiring harness
B166	10	★	B-2		Key warning module
B167	3	★	C-3		Front accessory power supply (Ground)
B168	3	★	B-3		A/C switch
B169	6	★	B-3		Blower fan switch
B170	2	★	B-3		Mode control panel illumination light
B175	2	★	C-3		Ash tray illumi. light
B176	10	★	C-2		Keyless entry control module

★: Non-colored

BULKHEAD WIRING HARNESS (IN COMPARTMENT)



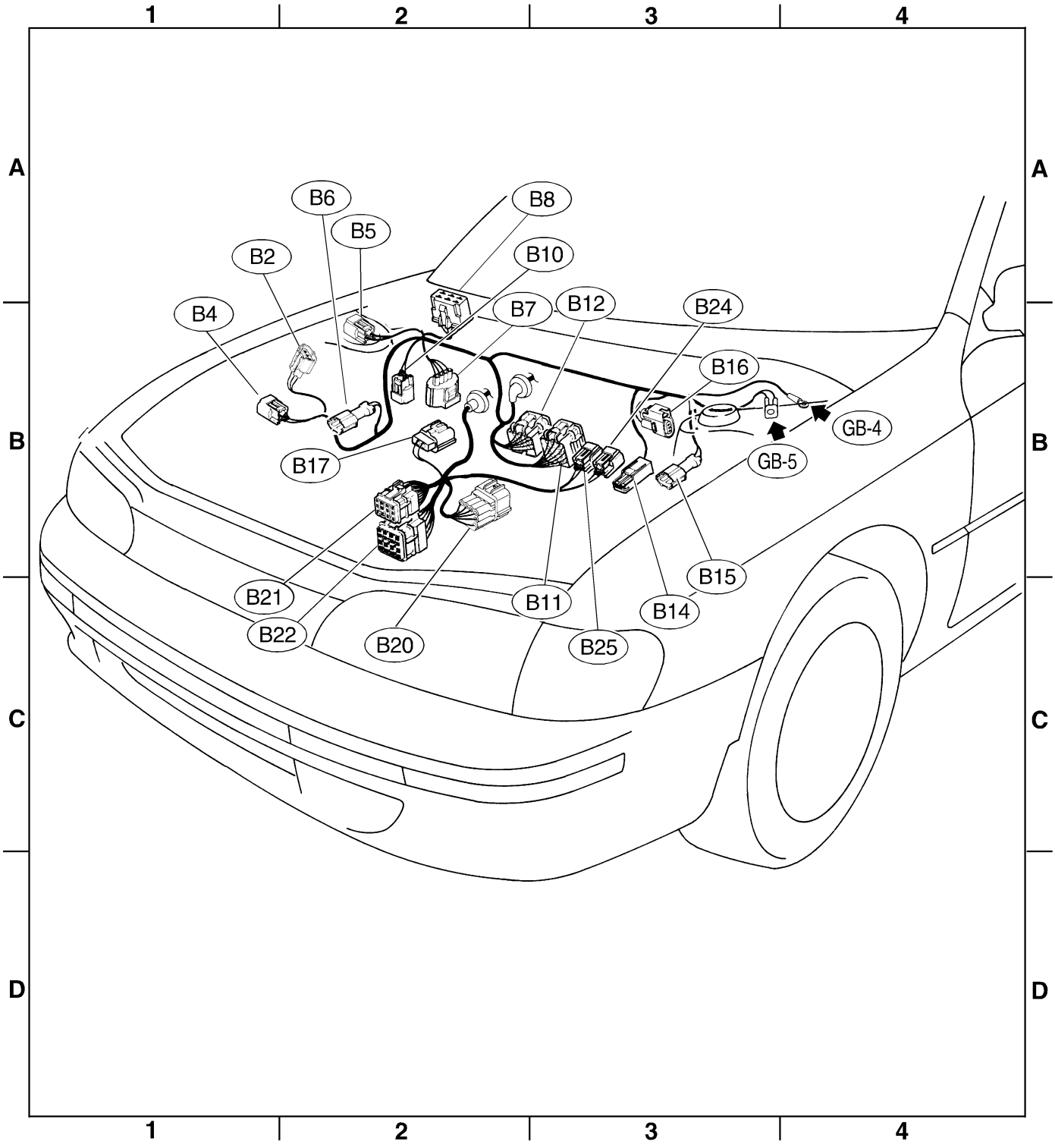
H6M0784A

41. Bulkhead Wiring Harness (In Engine Room) S903438

A: LOCATION S903438A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
B2	3	★	B-2		Atmospheric pressure sensor (2500 cc engine model)
B4	4	Gray	B-1		AT dropping resistor
B5	2	Gray	B-2		Resistor (Daytime running light)
B6	2	★	B-2		ABS front sensor RH
B7	4	★	B-2		Cruise control actuator
B8	6	★	B-2		Front wiper motor
B10	2	Gray	B-2		A/C pressure switch
B11	20	Black	B-3	T4	Transmission (AT)
B12	12	★	B-3	T3	
B14	1	Black	B-3		Starter (Magnet)
B15	2	★	B-3		ABS front sensor LH
B16	2	Gray	B-3		Brake fluid level switch
B17	3	★	B-2		Vehicle speed sensor (MT)
B20	10	★	B-2	E1	Oxygen sensor cord
B21	20	★	B-2	E2	Engine wiring harness
B22	16	★	B-2	E3	Engine wiring harness
B24	2	Gray	B-3	T1	Back-up light switch (MT)
B25	2	Brown	B-3	T2	Neutral position switch (MT)
★: Non-colored					

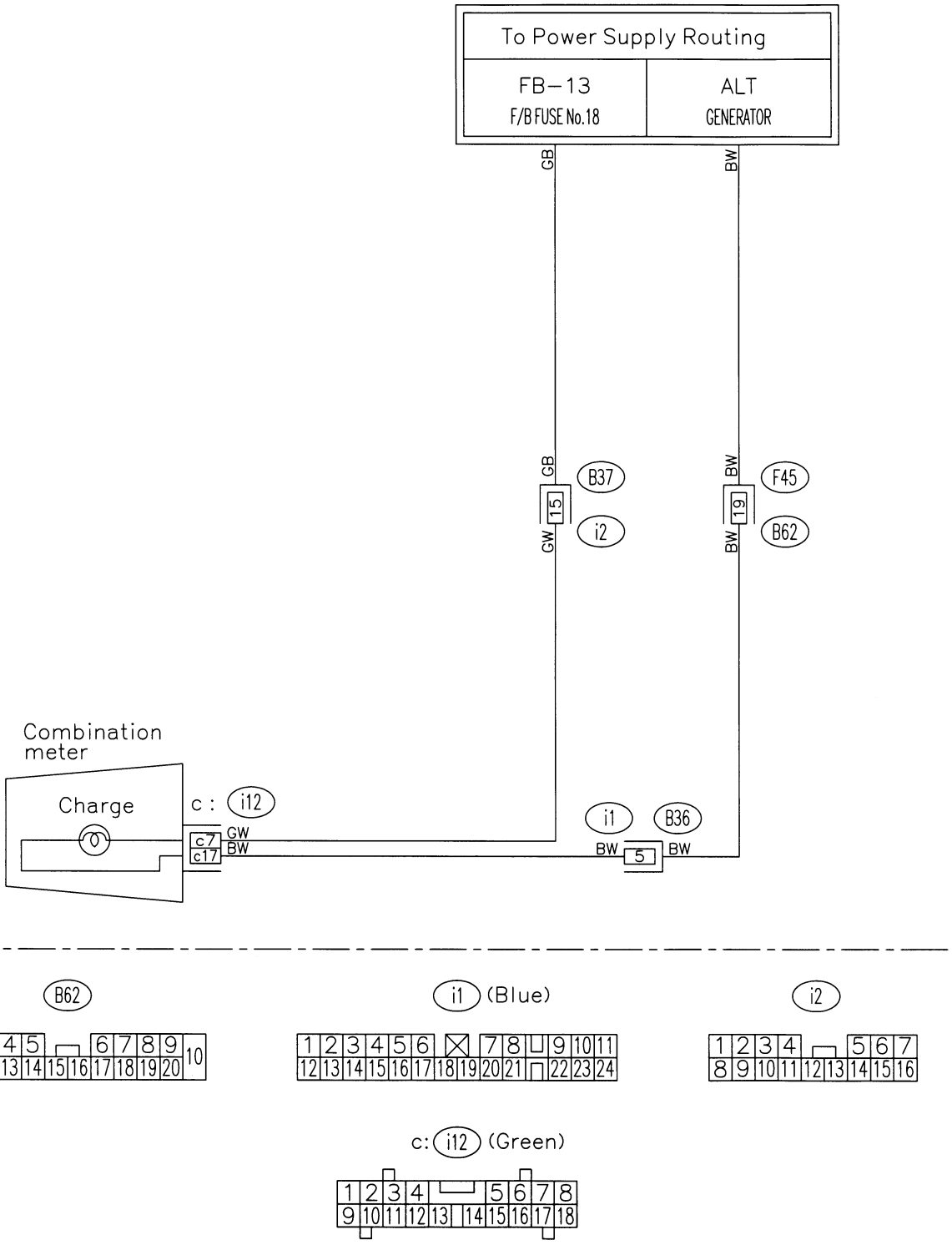
BULKHEAD WIRING HARNESS (IN ENGINE ROOM)



H6M0783A

11. Charging System S903487

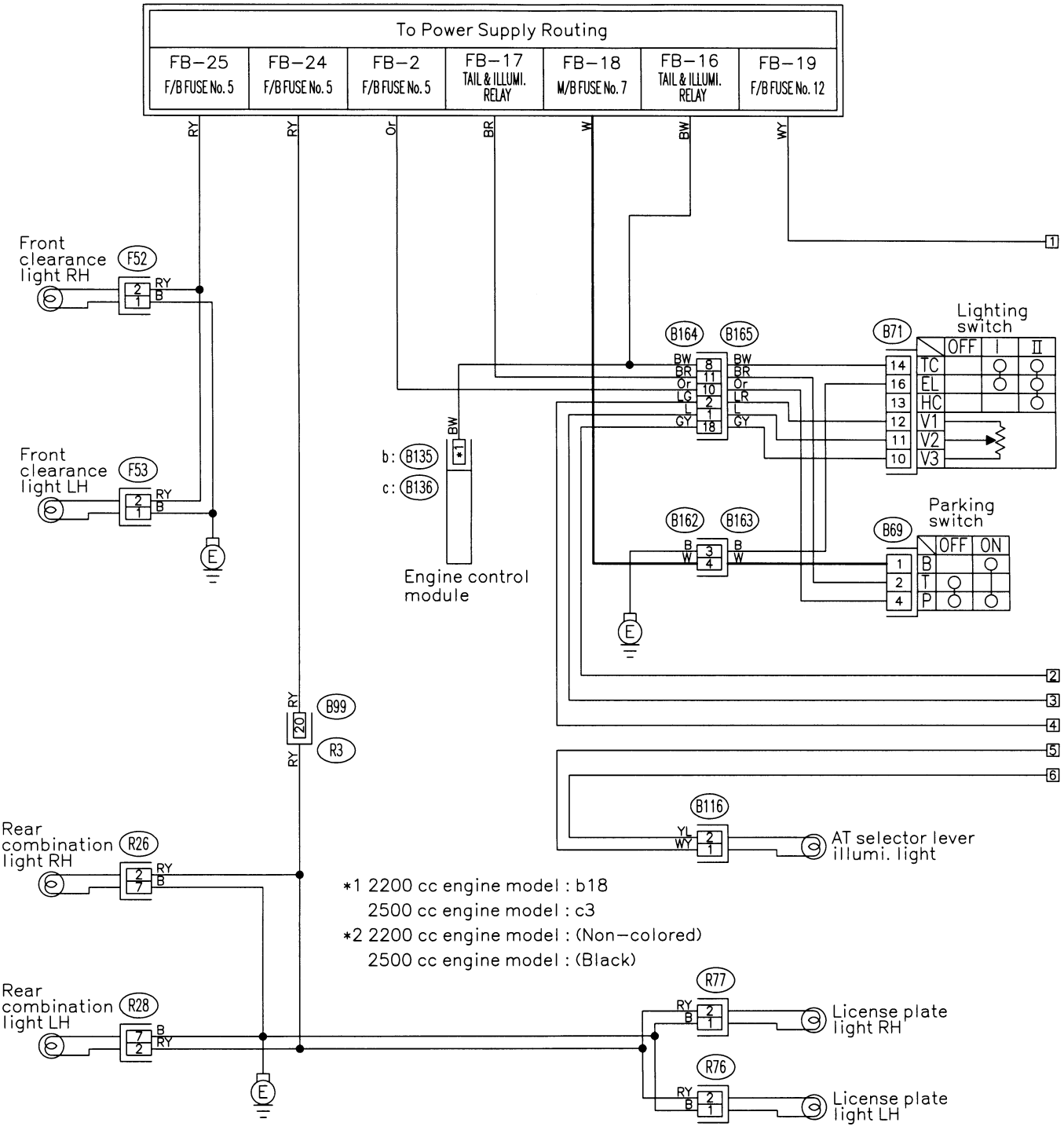
A: SCHEMATIC S903487A21

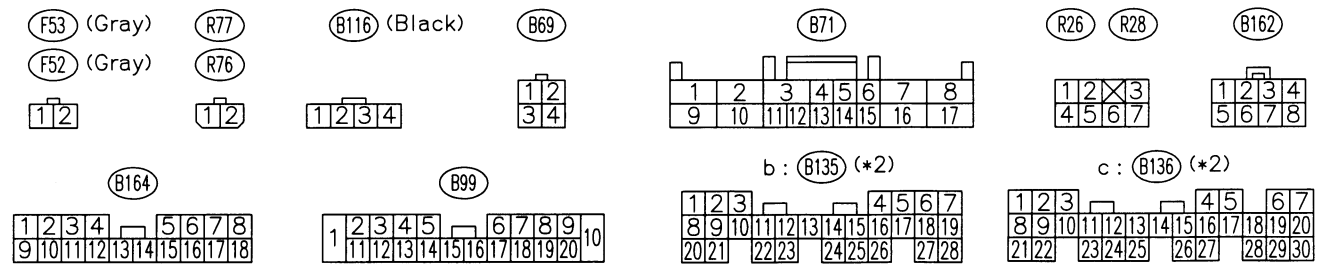


GU02−06

20. Clearance Light and Illumination Light System S903489

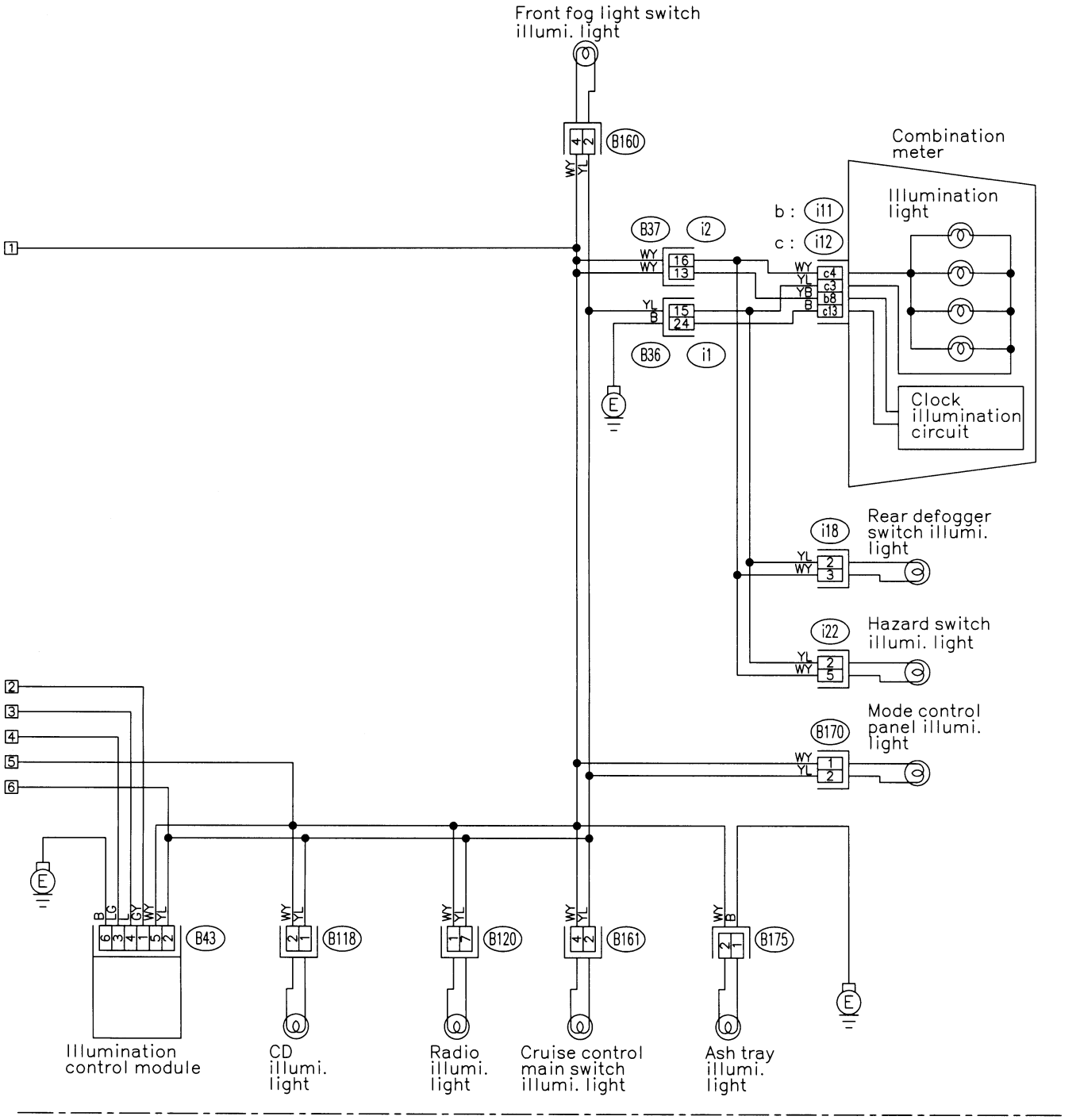
A: SCHEMATIC S903489A21

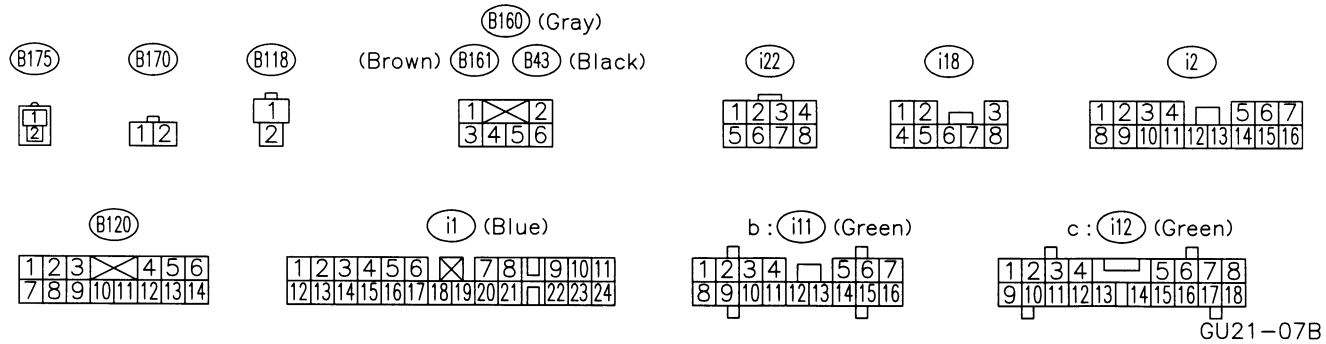




GU21−07A

CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

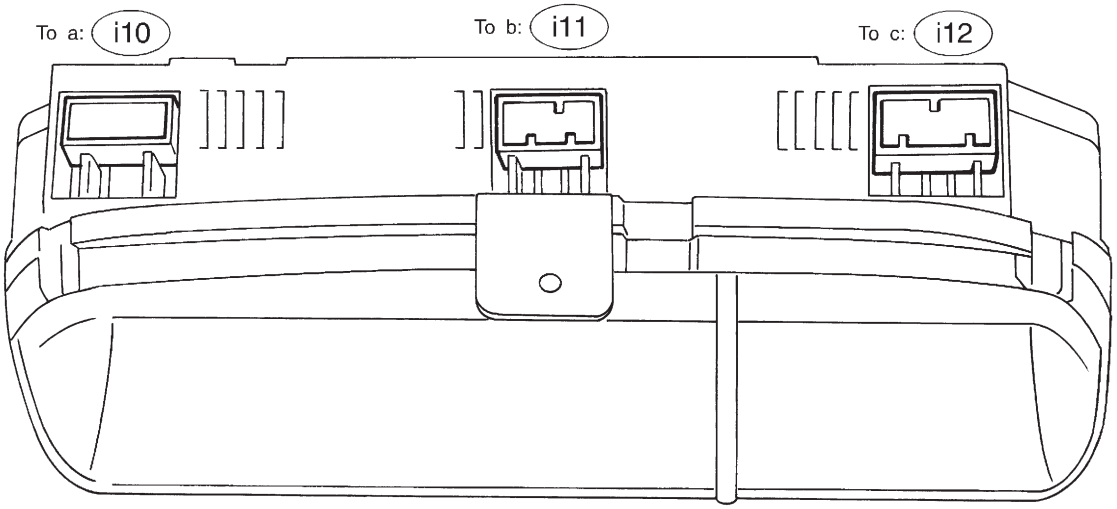


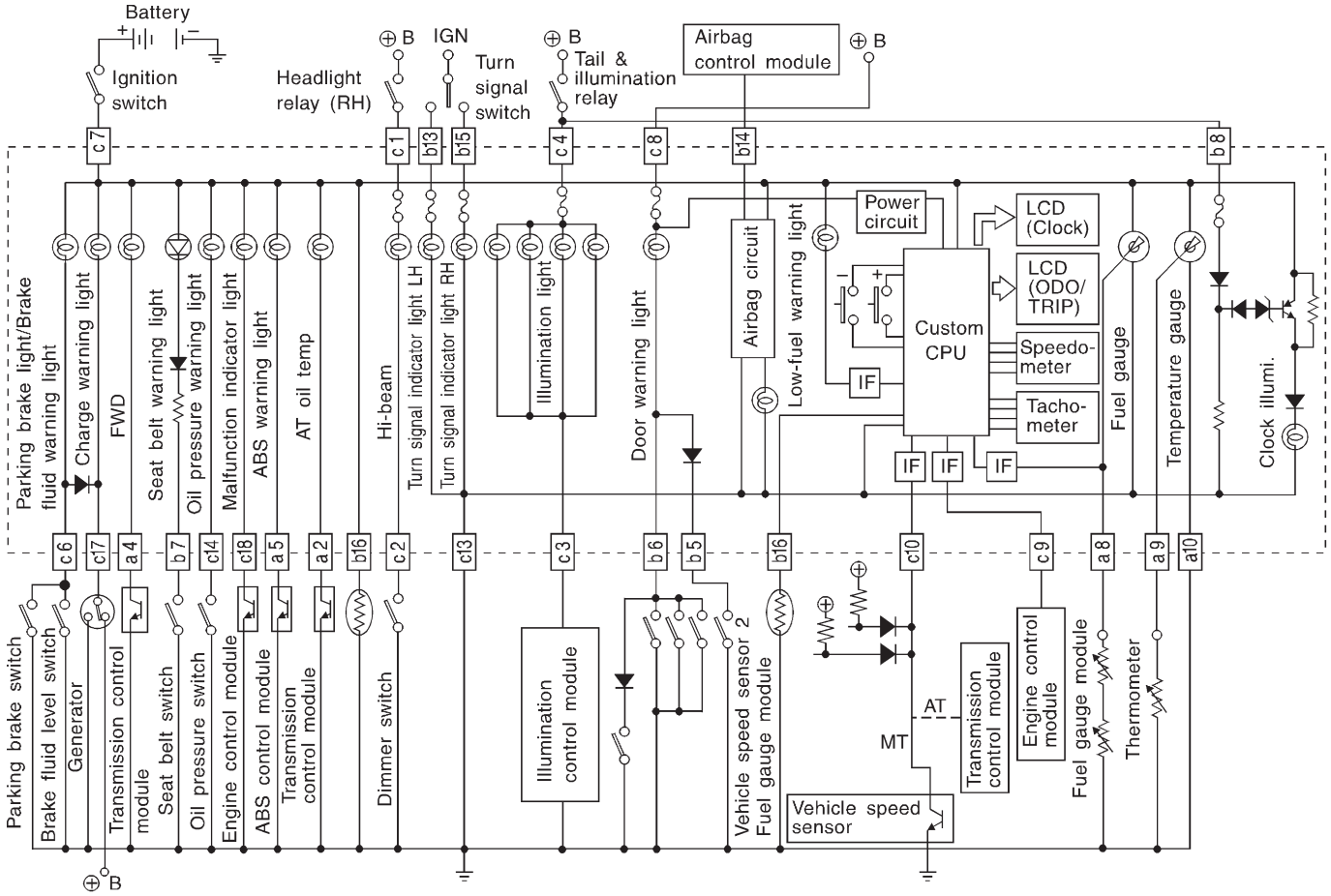


GU21–07B

12. Combination Meter S903488

A: SCHEMATIC S903488A21

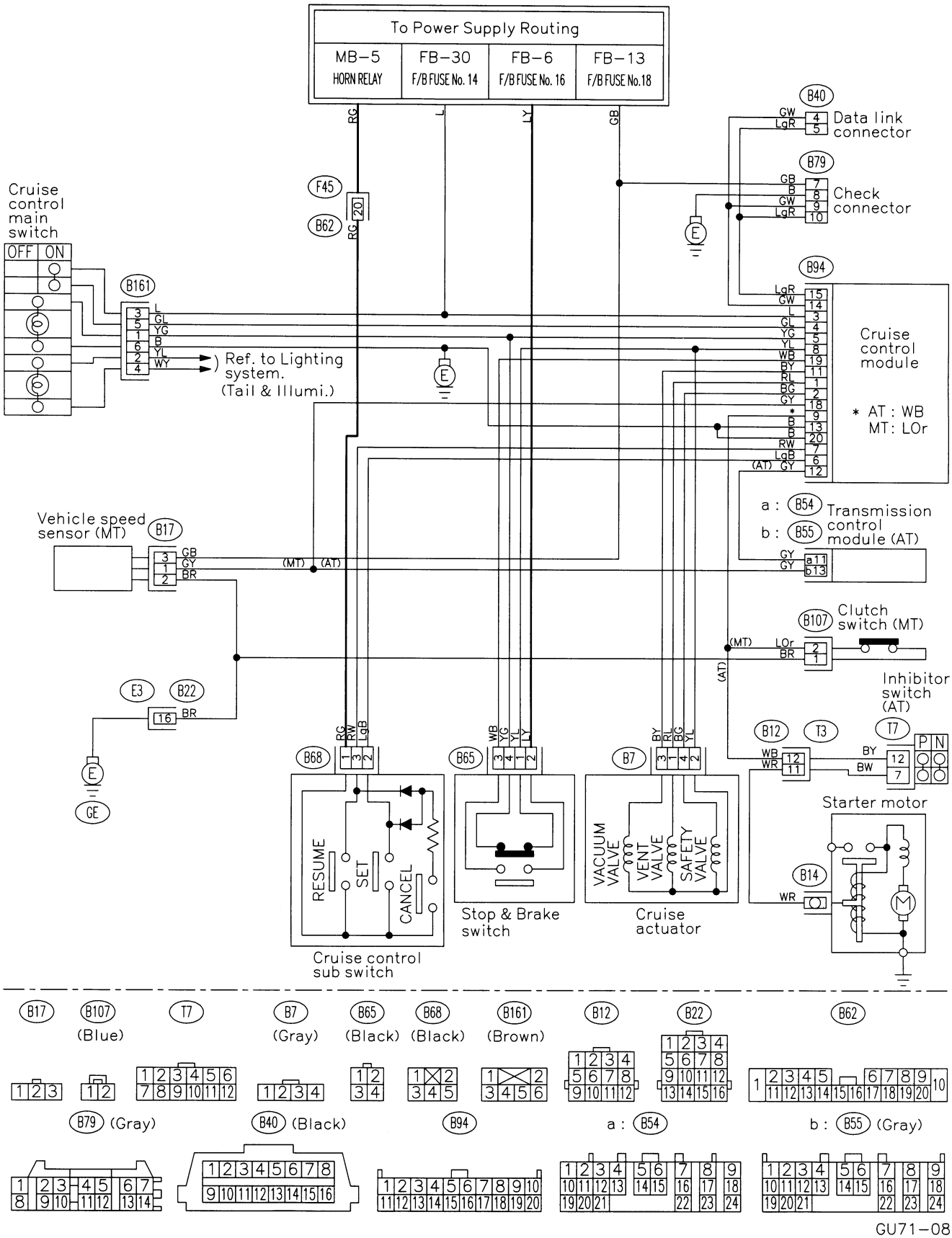




GU65-06

13. Cruise Control System S903495

A: SCHEMATIC S903495A21



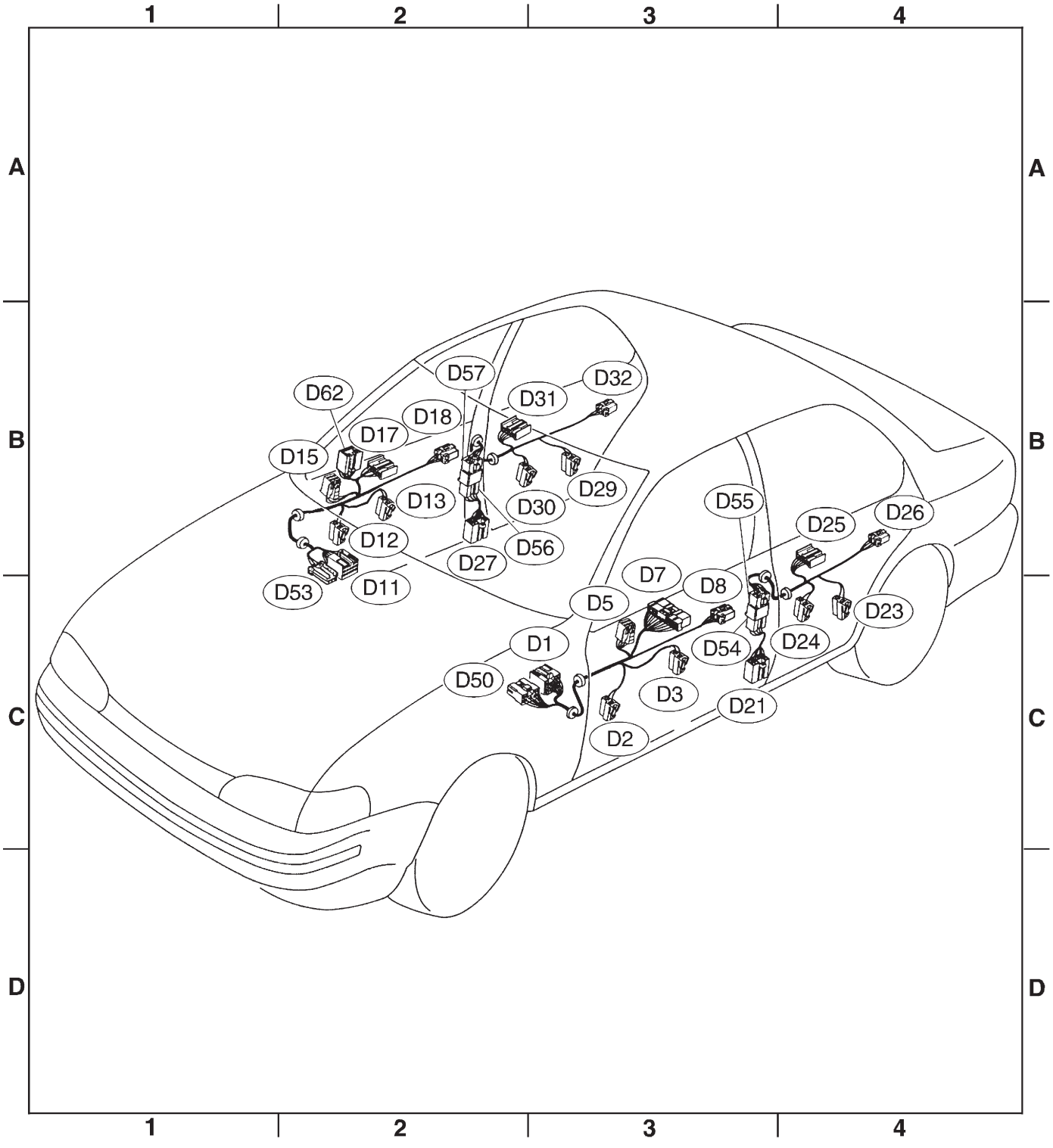
GU71–08

46. Door Cord S903432

A: LOCATION S903432A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
D1	13	★	C-3	B30	Bulkhead wiring harness
D2	2	★	C-3		Front speaker LH
D3	2	Green	C-3		Front power window motor LH
D5	6	★	C-3		Remote control rearview mirror LH
D7	16	★	C-3		Power window main switch (Sedan and Wagon model)
	12	★	C-3		Power window main switch (Coupe model)
D8	4	★	C-3		Front door lock actuator LH
D11	13	★	B-2	B101	Bulkhead wiring harness
D12	2	★	B-2		Front speaker RH
D13	2	Green	B-2		Front power window motor RH
D15	6	★	B-2		Remote control rearview mirror RH
D17	5	★	B-2		Front power window sub switch RH
D18	4	★	B-2		Front door lock actuator RH
D21	8	★	C-3	R11	Rear wiring harness
D23	2	★	C-4		Rear door speaker LH
D24	2	Green	C-4		Rear power window motor LH
D25	5	★	B-4		Rear power window sub switch LH
D26	4	★	B-4		Rear door lock actuator LH
D27	8	★	B-2	R14	Rear wiring harness
D29	2	★	B-3		Rear door speaker RH
D30	2	Green	B-3		Rear power window motor RH
D31	5	★	B-2		Rear power window sub switch RH
D32	4	★	B-3		Rear door lock actuator RH
D50	9	★	B-2	B113	Bulkhead wiring harness
D53	3	★	B-2	B124	Bulkhead wiring harness
D54	8	★	C-3	D55	Rear door cord LH
D55	8	★	C-3	D54	Rear door adapter cord LH
D56	8	★	B-2	D57	Rear door cord RH
D57	8	★	B-2	D56	Rear door adapter cord RH
D62	8	★	B-2		Door lock switch RH
★: Non-colored					

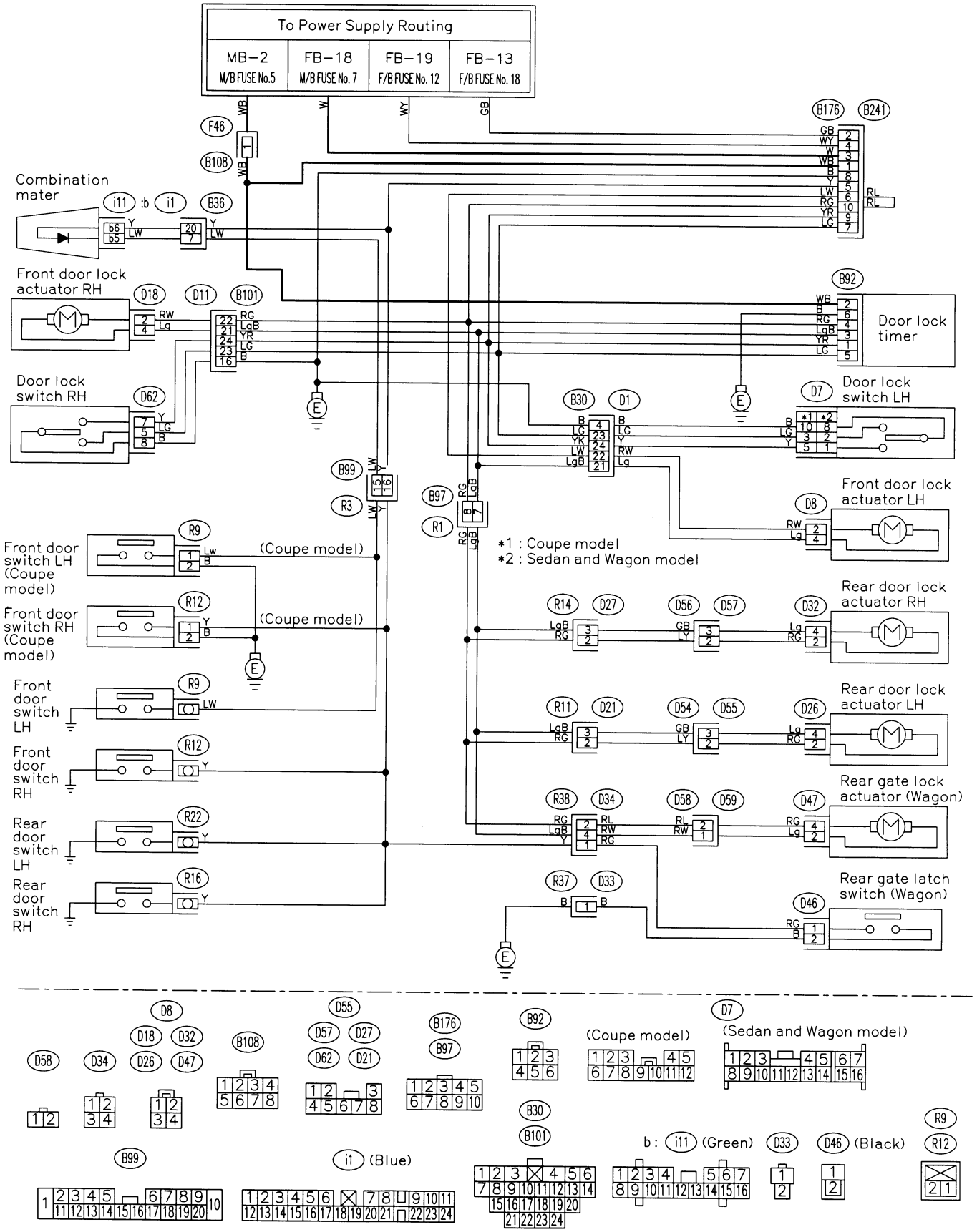
DOOR CORD



H6M0538A

14. Door Lock System S903490

A: SCHEMATIC S903490A21

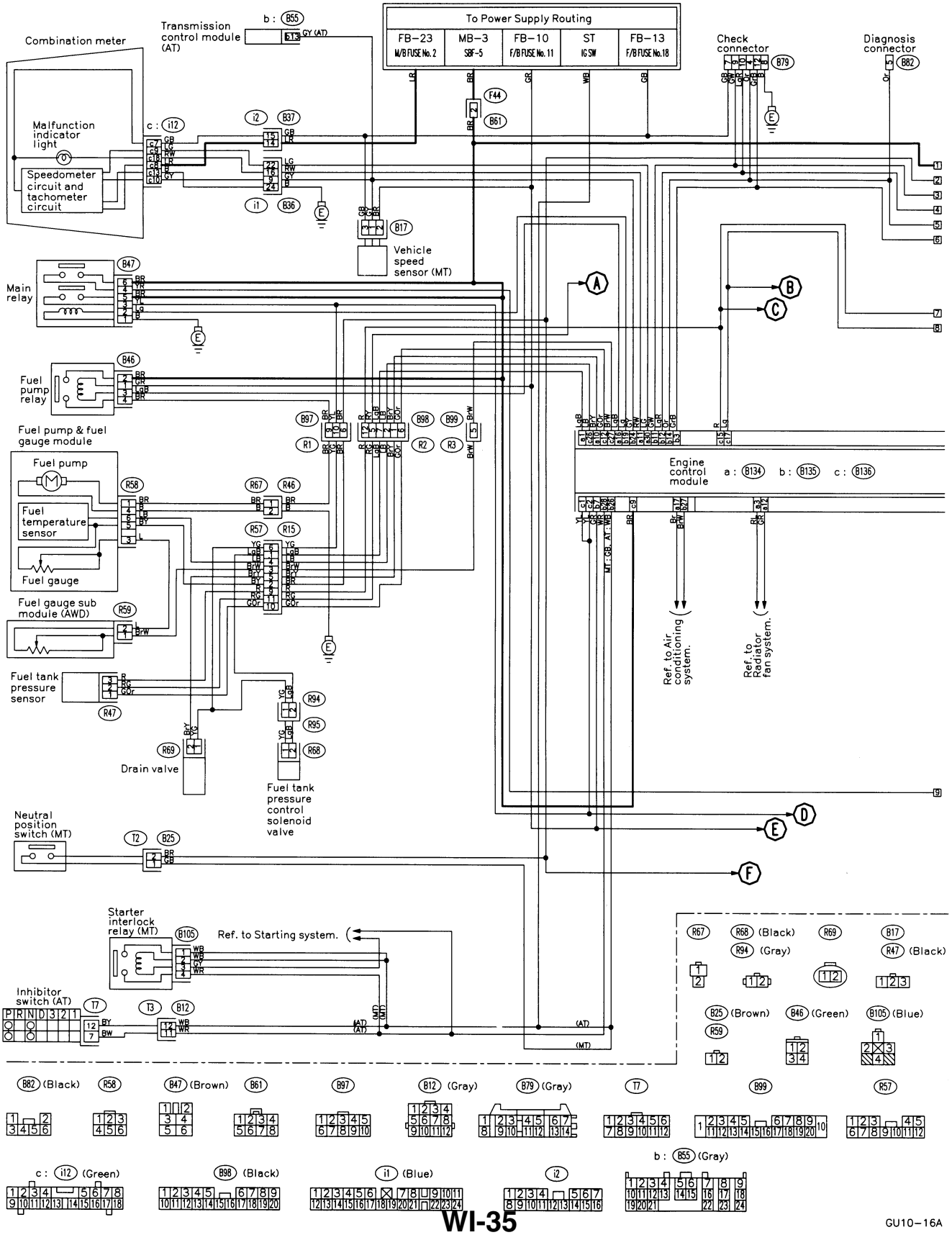


GU73−06

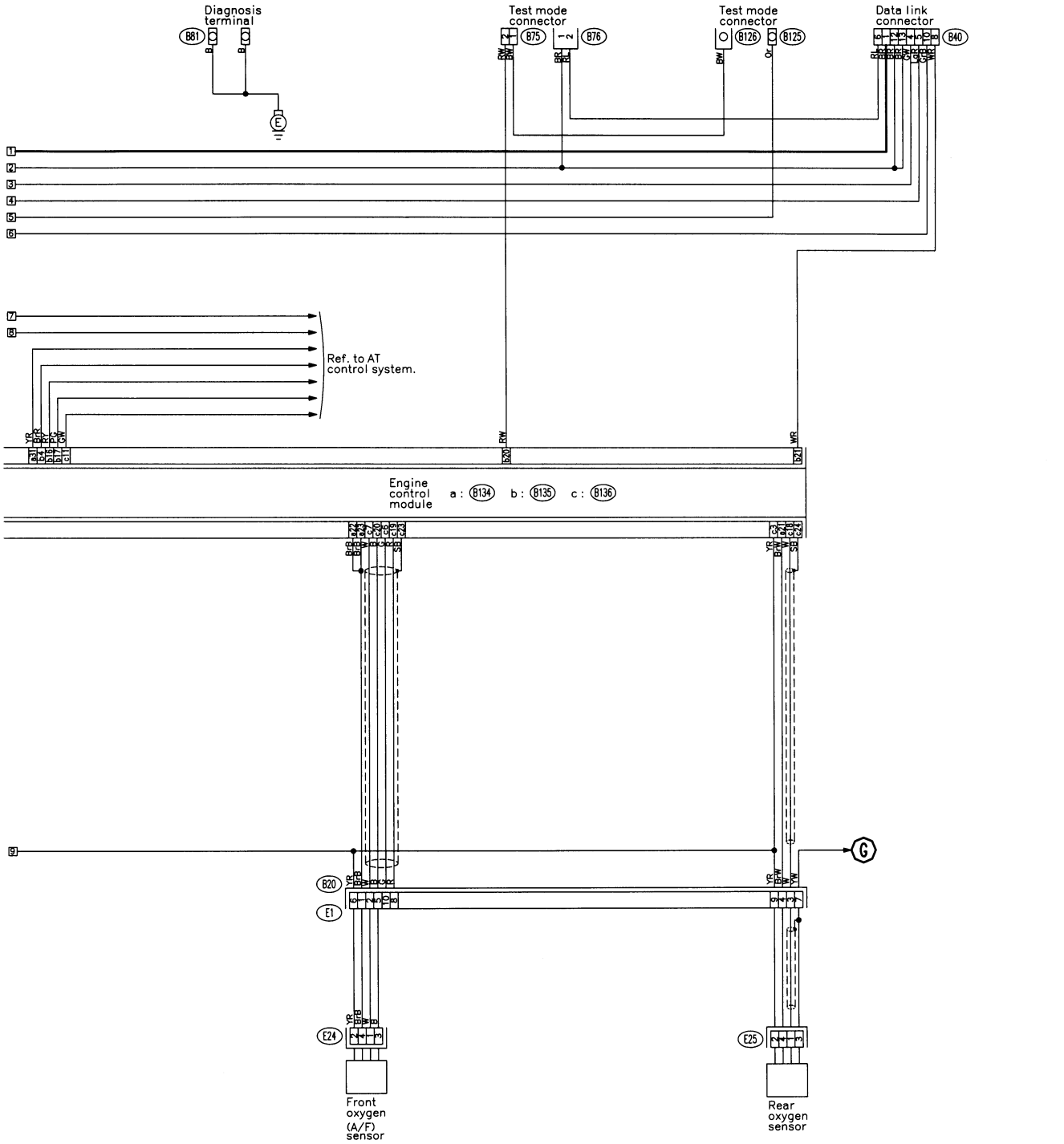
15. Engine Electrical System S903482

A: SCHEMATIC S903482A21

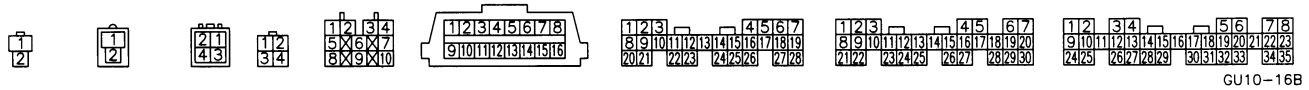
1. 2200 cc ENGINE MODEL S903482A2106



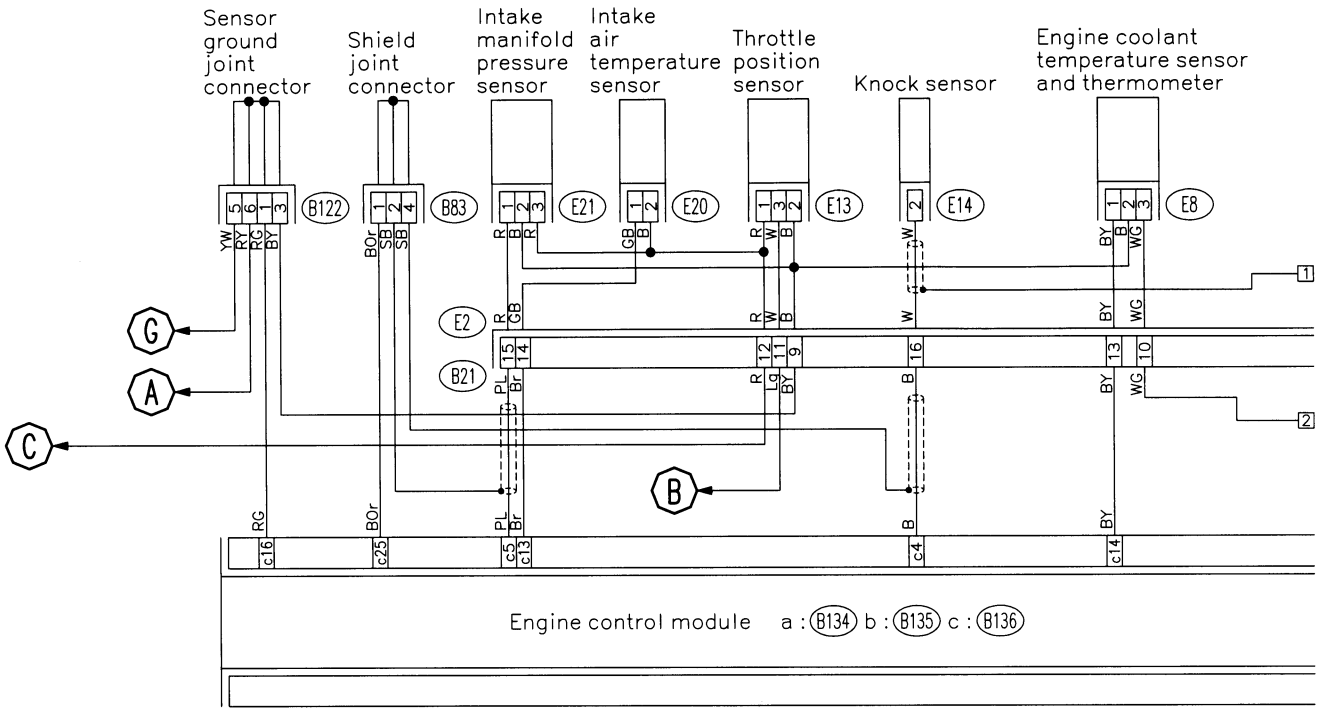
GU10−16A



B75 (Green) B76 (Green) E25 E24 E1 B40 (Black) b : B135 c : B136 a : B134



GU10−16B



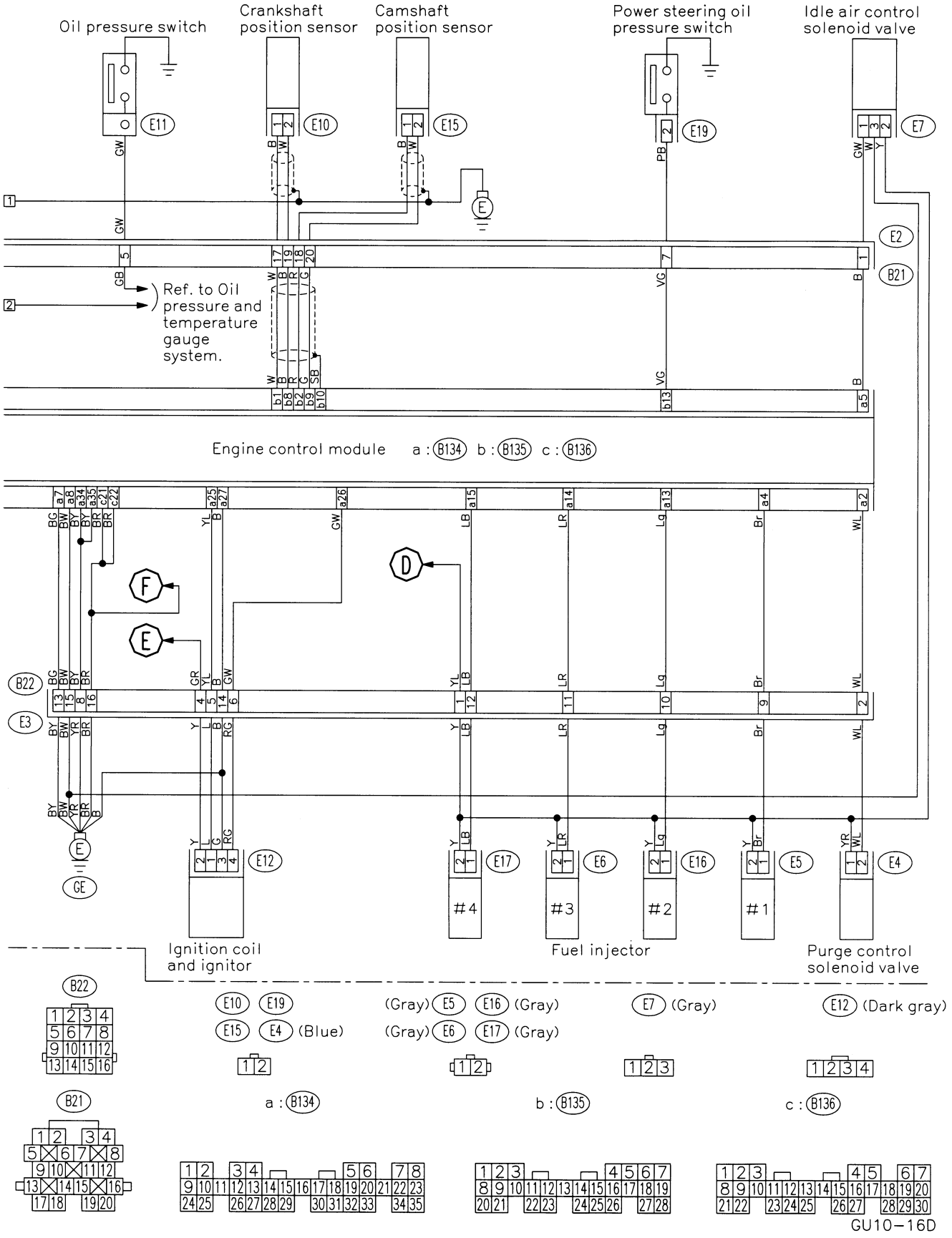
E14 (Gray)
E20 (Black)

E21
E13 (Black)

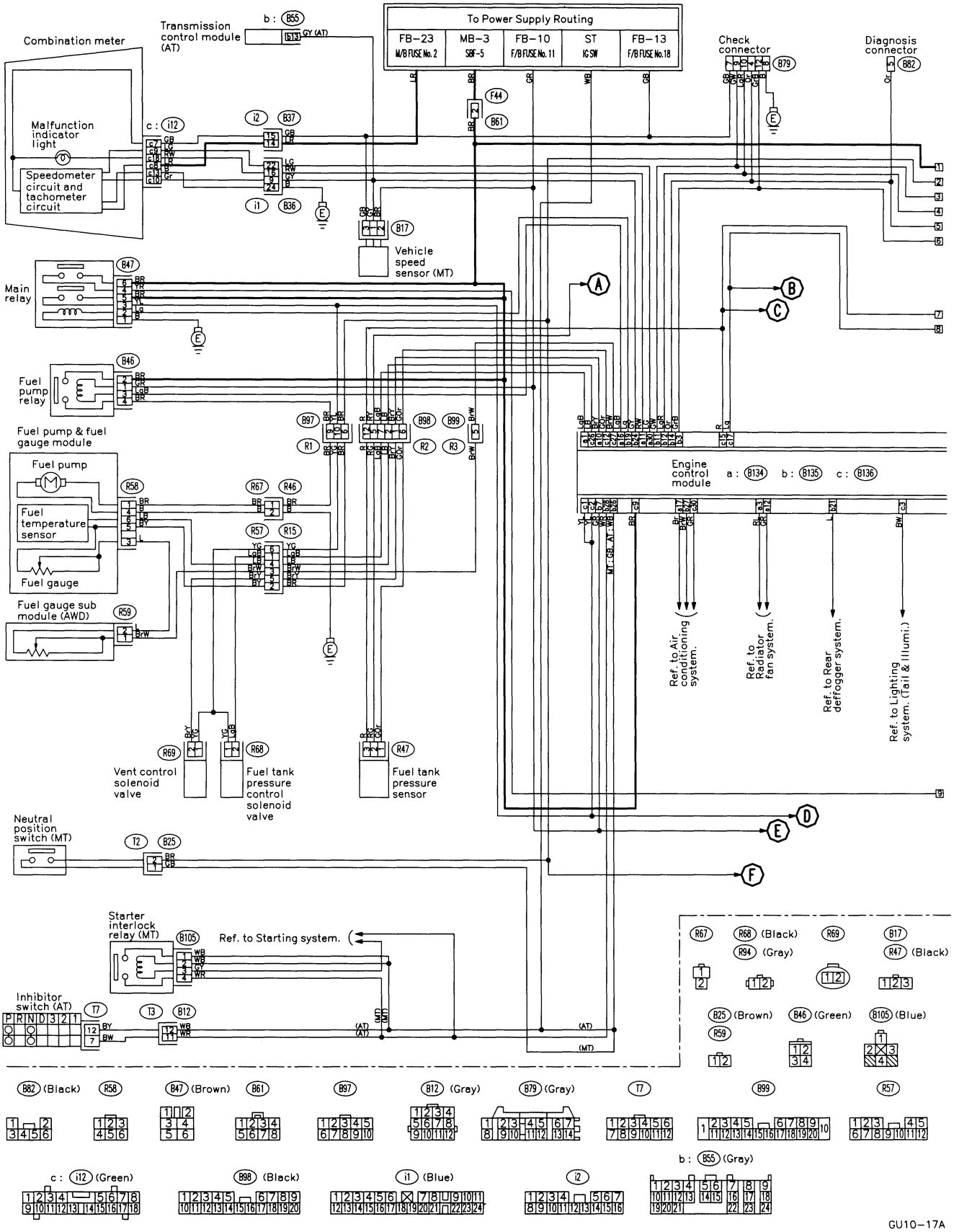
E8

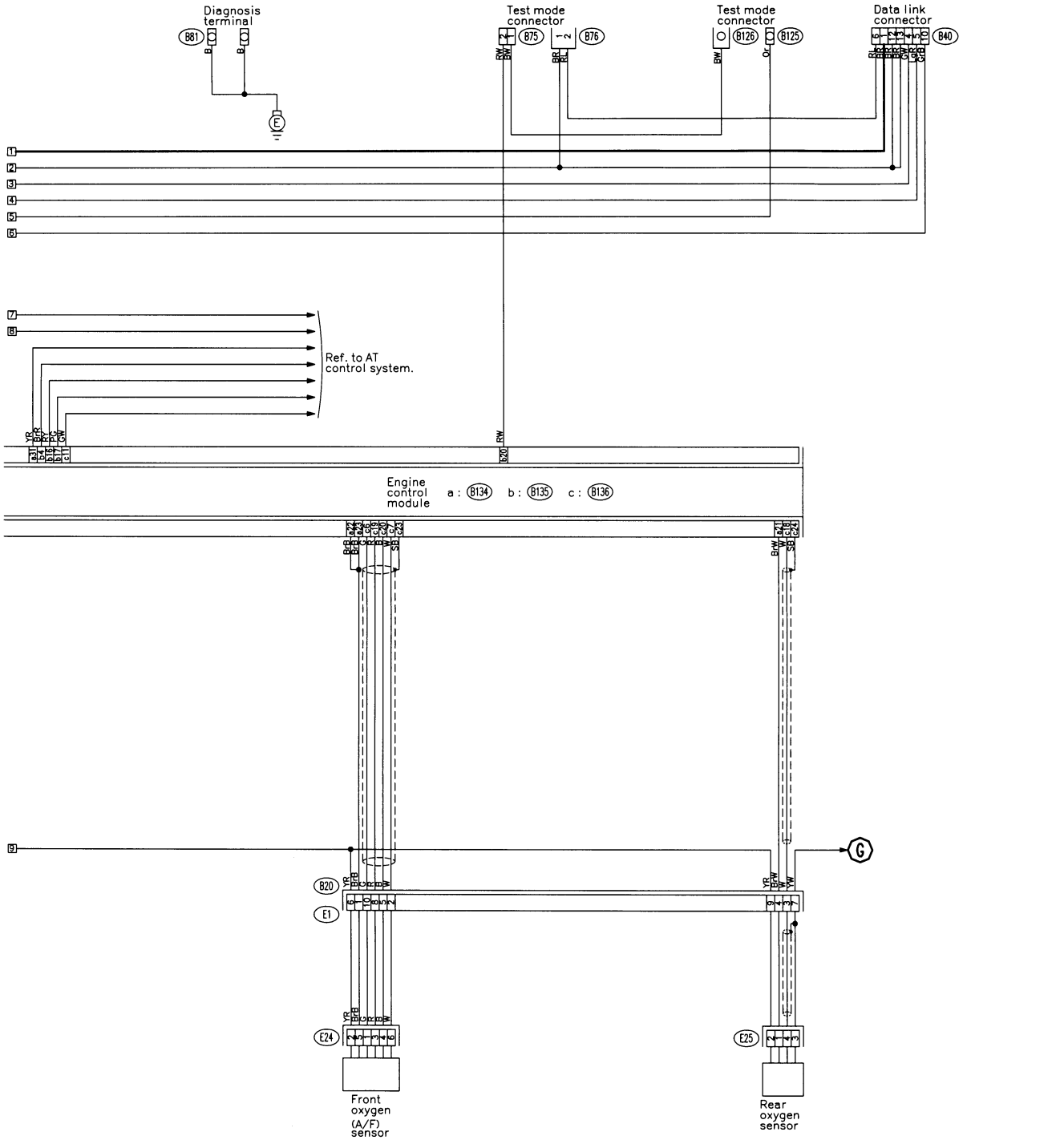
B83
B122

GU10−16C

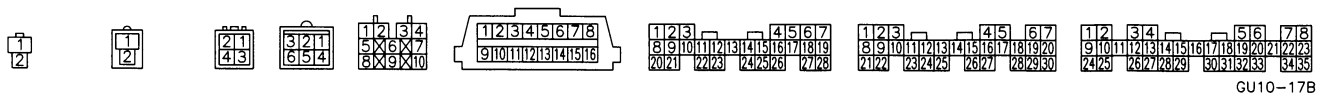

Oil pressure switch
Crankshaft position sensor
Camshaft position sensor
Power steering oil pressure switch
Idle air control solenoid valve
Ref. to Oil pressure and temperature gauge system.
Engine control module a : B134 b : B135 c : B136
Ignition coil and ignitor
Fuel injector
Purge control solenoid valve
#4
#3
#2
#1
(Gray)
(Blue)
(Dark gray)
a : B134
b : B135
c : B136
GU10−16D

2. 2500 cc ENGINE MODEL S903482A2107

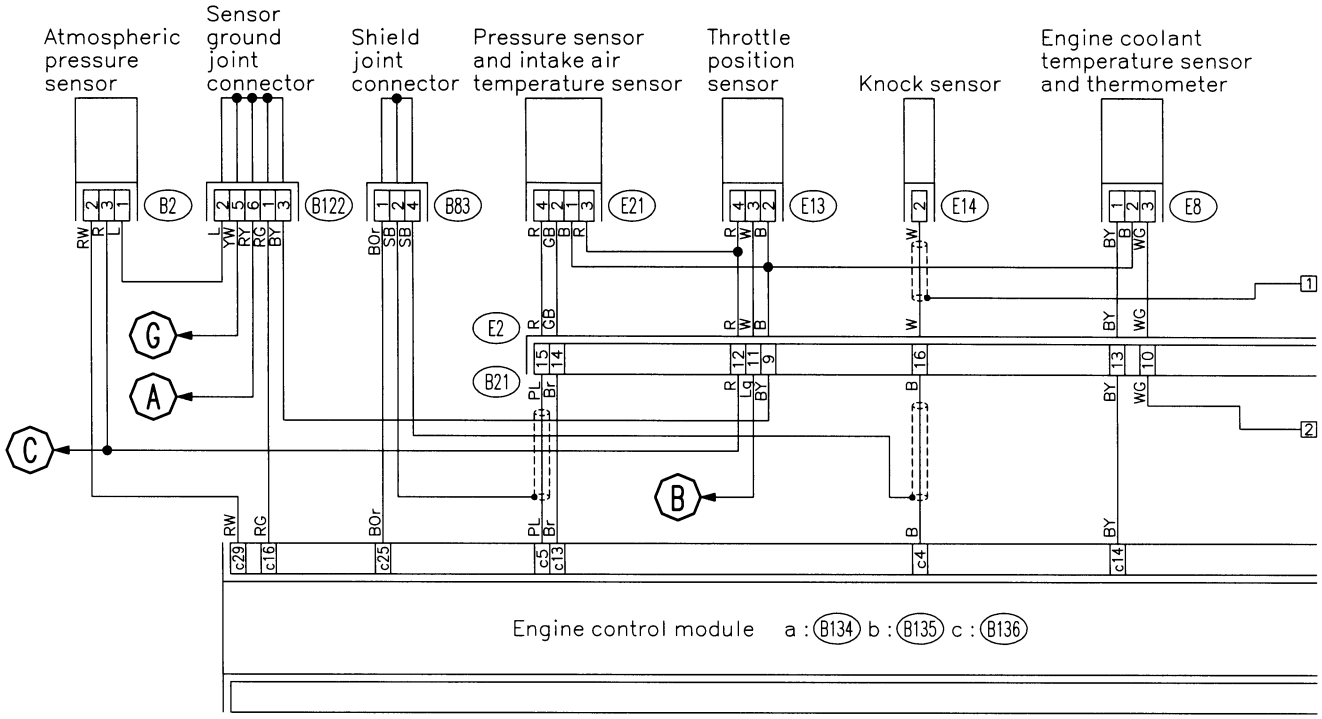


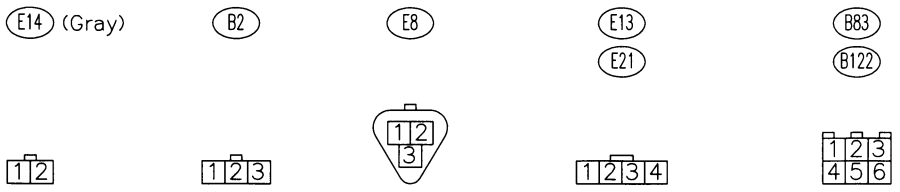


B75 (Green) B76 (Green) E25 E24 E1 B40 (Black) b : B135 (Black) c : B136 (Black) a : B134 (Black)

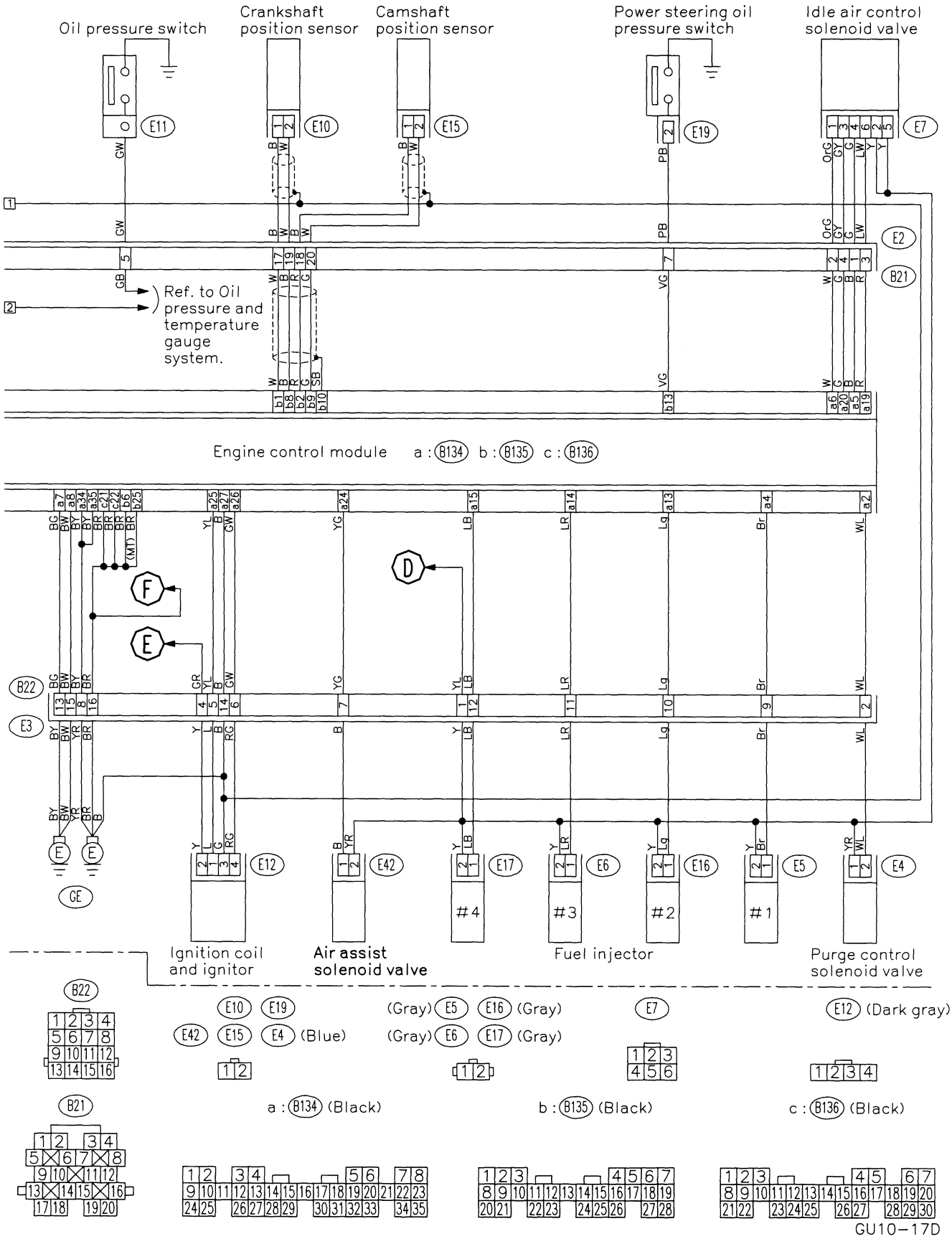


GU10–17B


Atmospheric pressure sensor
Sensor ground joint connector
Shield joint connector
Pressure sensor and intake air temperature sensor
Throttle position sensor
Knock sensor
Engine coolant temperature sensor and thermometer
B2
B122
B83
E21
E13
E14
E8
E2
B21
G
A
C
B
1
2
Engine control module a : B134 b : B135 c : B136


E14 (Gray)
B2
E8
E13
E21
B83
B122

GU10–17C


Oil pressure switch
Crankshaft position sensor
Camshaft position sensor
Power steering oil pressure switch
Idle air control solenoid valve
Ref. to Oil pressure and temperature gauge system.
Engine control module a : B134 b : B135 c : B136
Ignition coil and ignitor
Air assist solenoid valve
Fuel injector
Purge control solenoid valve
(Gray)
(Blue)
(Dark gray)
(Black)
GU10−17D

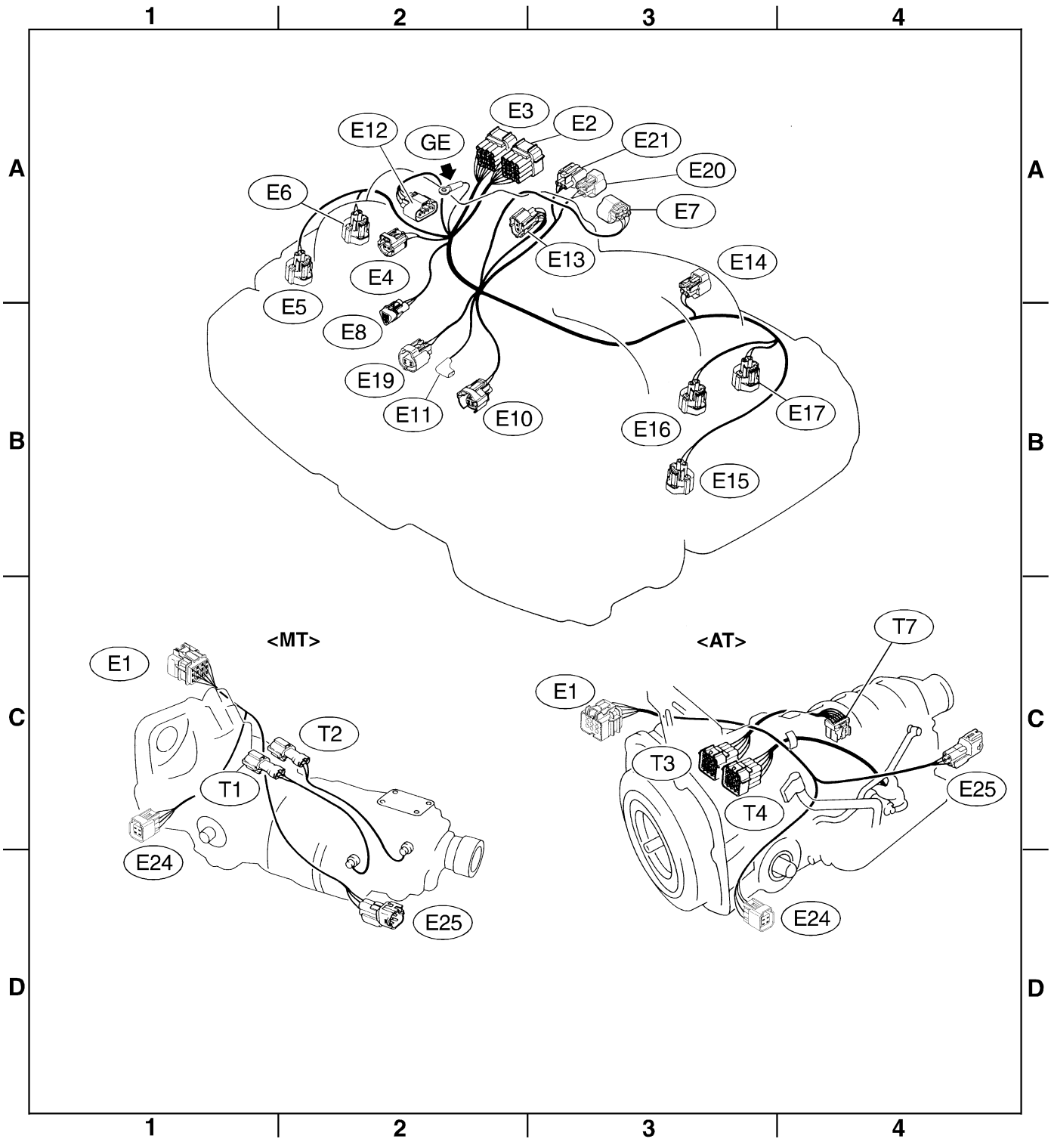
43. Engine Wiring Harness and Transmission Cord S903447

A: LOCATION S903447A13

1. 2200 cc ENGINE MODEL S903447A1304

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
E1	10	★	C-1/C-3	B20	Bulkhead wiring harness
E2	20	★	A-2	B21	Bulkhead wiring harness
E3	16	★	A-2	B22	Bulkhead wiring harness
E4	2	Blue	A-2		Purge control solenoid valve
E5	2	Gray	A-1		Injector #1
E6	2	Gray	A-2		Injector #3
E7	3	Gray	A-3		Idle air control solenoid valve
E8	3	★	B-2		Engine coolant temperature sensor and thermometer
E10	2	★	B-2		Crankshaft position sensor
E11	1	★	B-2		Oil pressure switch
E12	4	Dark gray	A-2		Ignition coil and ignitor
E13	3	Black	A-2		Throttle position sensor
E14	2	Gray	A-3		Knock sensor
E15	2	★	B-3		Camshaft position sensor
E16	2	Gray	B-3		Injector #2
E17	2	Gray	B-4		Injector #4
E19	2	★	B-2		Power steering oil pressure switch
E20	2	Black	A-3		Intake air temperature sensor
E21	3	★	A-3		Intake manifold pressure sensor
E24	4	★	D-1/D-3		Front oxygen (A/F) sensor
E25	4	★	D-2/C-4		Rear oxygen sensor
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T1	2	Gray	D-1	B24	Bulkhead wiring harness (MT)
T2	2	Brown	D-1	B25	
T3	12	★	D-3	B12	Bulkhead wiring harness (AT)
T4	20	Black	D-3	B11	
T7	12	★	C-4		Inhibitor switch (AT)
★: Non-colored					


1
2
3
4
A
B
C
D
E3
E2
E12
GE
E21
E20
E6
E7
E13
E14
E4
E5
E8
E19
E11
E10
E16
E17
E15
<MT>
E1
T2
T1
E24
E25
<AT>
T7
E1
T3
E25
T4
E24

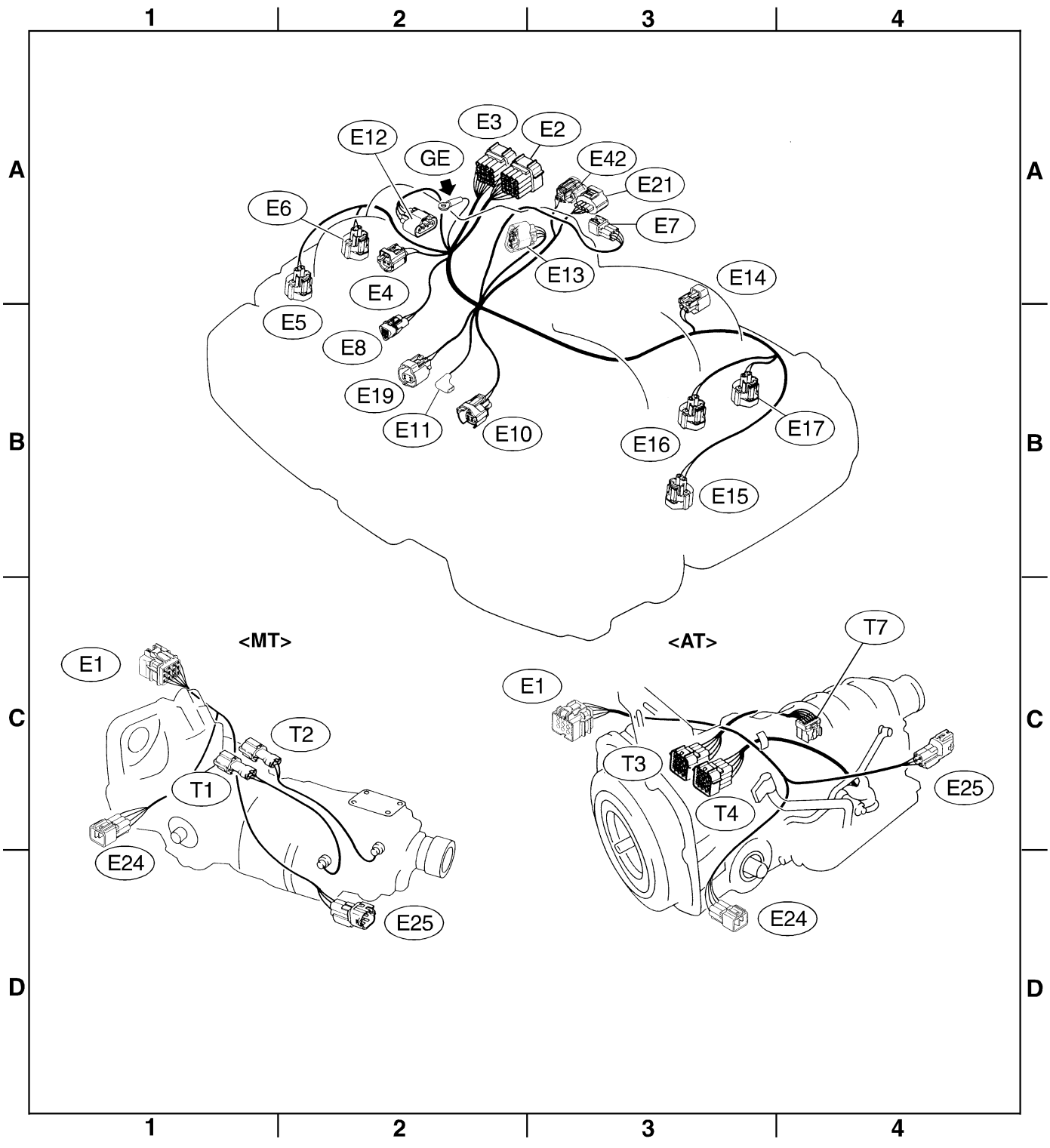
H6M0785A

2. 2500 cc ENGINE MODEL S903447A1305

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
E1	10	★	C-1/C-3	B20	Bulkhead wiring harness
E2	20	★	A-2	B21	Bulkhead wiring harness
E3	16	★	A-2	B22	Bulkhead wiring harness
E4	2	Blue	A-2		Purge control solenoid valve
E5	2	Gray	A-1		Injector #1
E6	2	Gray	A-2		Injector #3
E7	6	★	A-3		Idle air control solenoid valve
E8	3	★	B-2		Engine coolant temperature sensor and thermometer
E10	2	★	B-2		Crankshaft position sensor
E11	1	★	B-2		Oil pressure switch
E12	4	Dark gray	A-2		Ignition coil and ignitor
E13	4	★	A-2		Throttle position sensor
E14	2	Gray	A-3		Knock sensor
E15	2	★	B-3		Camshaft position sensor
E16	2	Gray	B-3		Injector #2
E17	2	Gray	B-4		Injector #4
E19	2	★	B-2		Power steering oil pressure switch
E21	4	★	A-3		Pressure sensor and intake air temperature sensor
E24	6	★	D-1/D-3		Front oxygen (A/F) sensor
E25	4	★	D-2/C-4		Rear oxygen sensor
E42	2	★	A-3		Air assist solenoid valve
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
T1	2	Gray	D-1	B24	Bulkhead wiring harness (MT)
T2	2	Brown	D-1	B25	
T3	12	★	D-3	B12	Bulkhead wiring harness (AT)
T4	20	Black	D-3	B11	
T7	12	★	C-4		Inhibitor switch (AT)
★: Non-colored					

ENGINE WIRING HARNESS AND TRANSMISSION CORD

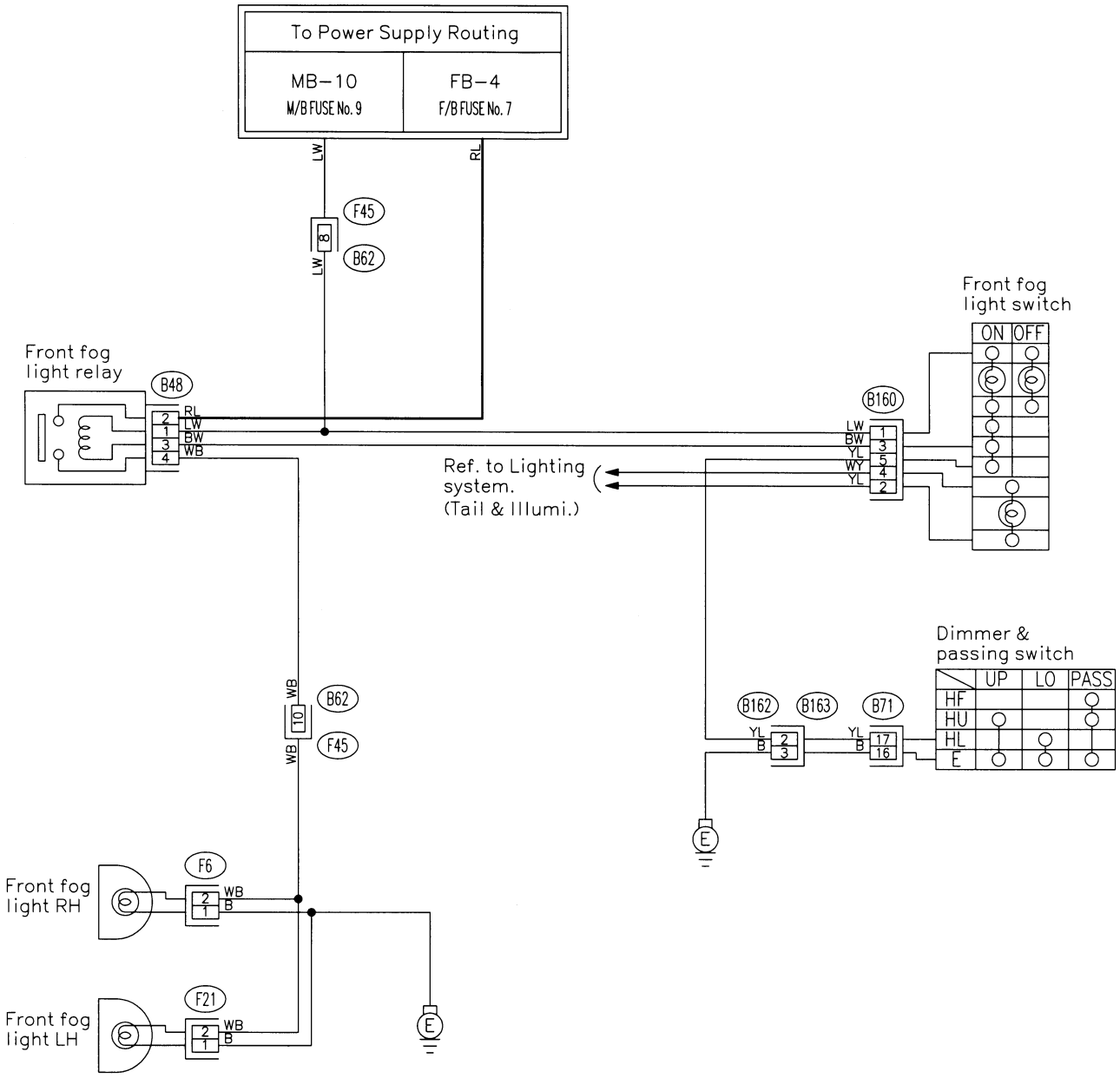


H6M0786A

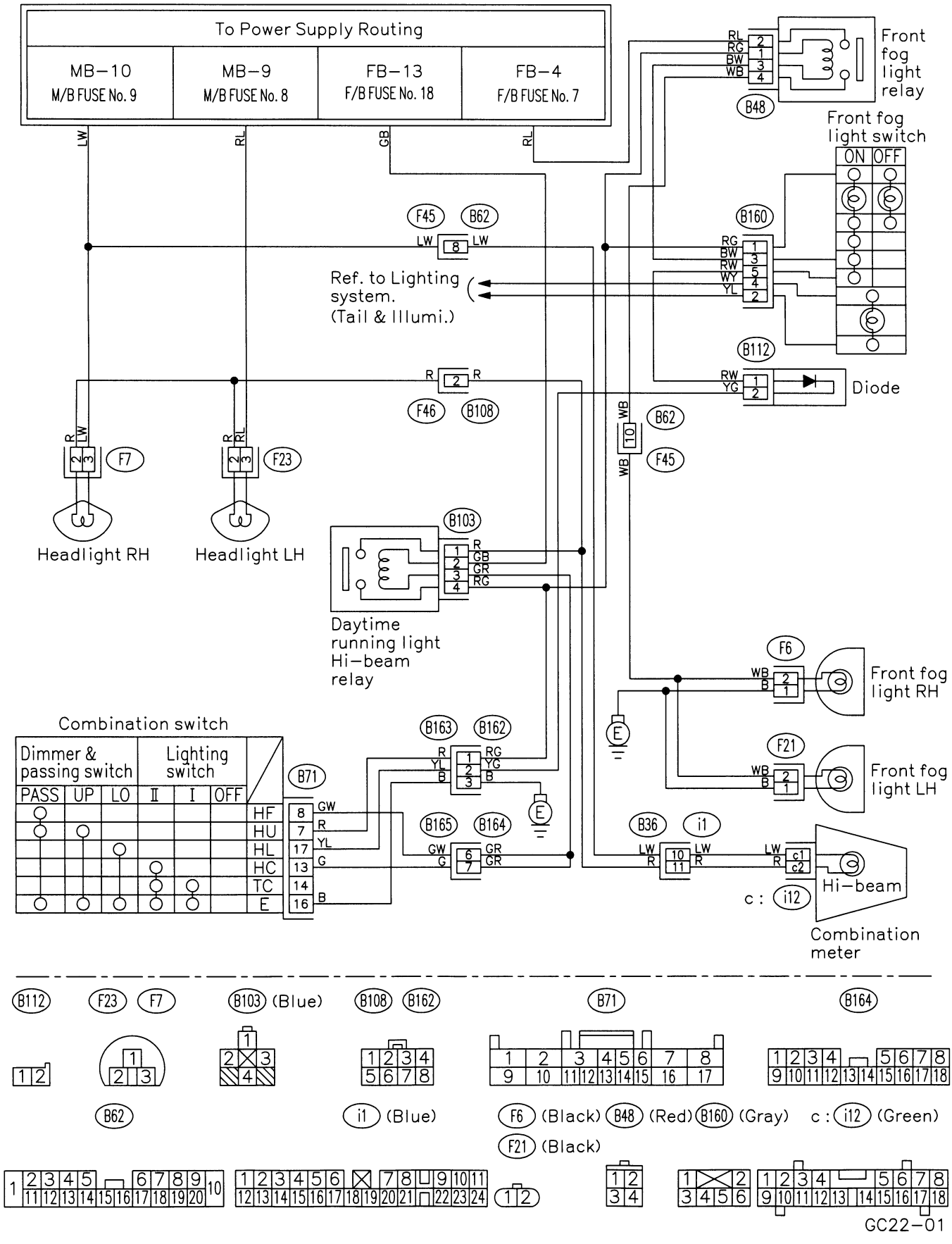
21. Front Fog Light System S903473

A: SCHEMATIC S903473A21

1. WITHOUT DAYTIME RUNNING LIGHT MODEL S903473A2105



2. WITH DAYTIME RUNNING LIGHT MODEL S903473A2106

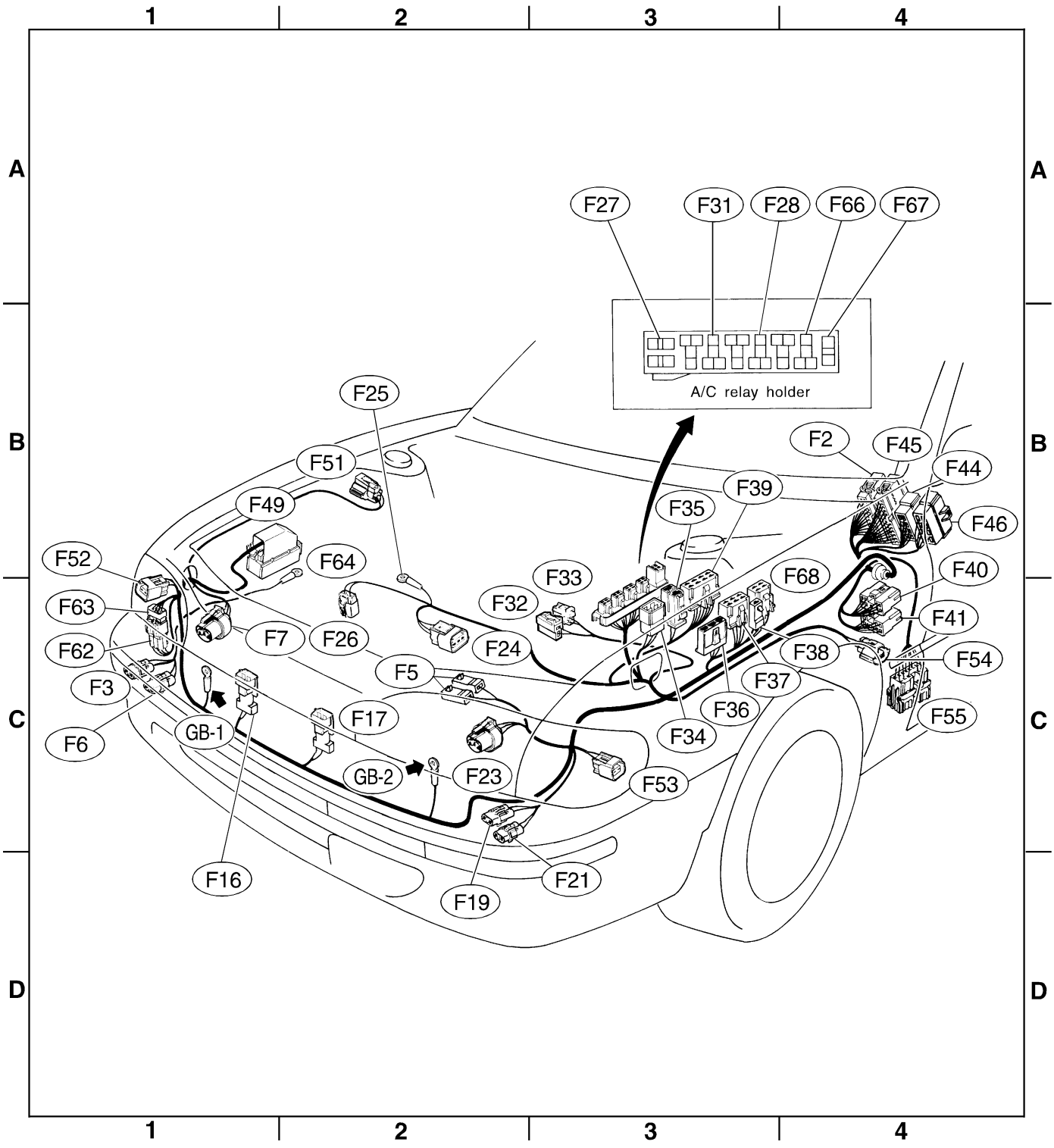


40. Front Wiring Harness S903445

A: LOCATION S903445A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
F2	16	Blue	B-4	B100	Bulkhead wiring harness (ABS)
F3	2	★	B-1		Front turn signal light RH
F5	1 × 2	★	B-1		Horn
F6	2	Black	B-1		Front fog light RH
F7	3	★	B-1		Headlight RH
F16	2	Black	B-1		Sub fan motor
F17	2	Black	B-2		Radiator main fan motor
F19	2	★	C-3		Front turn signal light LH
F21	2	Black	C-2		Front fog light LH
F23	3	★	B-2		Headlight LH
F24	3	Gray	B-2		A/C compressor
F25	1	★	B-2		Generator
F26	3	Green	B-2		
F27	4	★	B-3		A/C fuse (Relay holder)
F28	4	★	B-3		A/C sub fan relay (Relay holder)
F31	4	★	B-3		A/C relay (Relay holder)
F32	2	Green	B-3		Front washer motor
F33	2	★	B-3		Rear washer motor
F34	4	★	B-3		SBF holder
F35	2	★	B-3		M/B
F36	3	★	B-3		
F37	6	Black	B-3		
F38	1	★	B-3		
F39	8	Black	B-3		
F40	9	Brown	B-4		F/B
F41	7	Gray	B-4		
F44	8	★	B-4	B61	Bulkhead wiring harness
F45	20	★	B-4	B62	
F46	8	★	B-4	B108	
F49	31	★	B-2		ABS control module
F51	2	★	B-2		Side turn signal light RH
F52	2	Gray	B-1		Front clearance light RH
F53	2	Gray	C-3		Front clearance light LH
F54	2	★	B-4		Side turn signal light LH
F55	12	★	B-4	R49	Rear wiring harness (ABS)
F62	6	★	B-1	F63	Shield joint connector (ABS)
F63	6	★	B-1	F62	
F64	1	★	B-2		ABS motor ground
F66	4	★	B-3		Radiator main fan relay (Relay holder)
F67	2	★	B-3		FWD switch (Relay holder)
F68	4	Black	B-3		M/B
★: Non-colored					

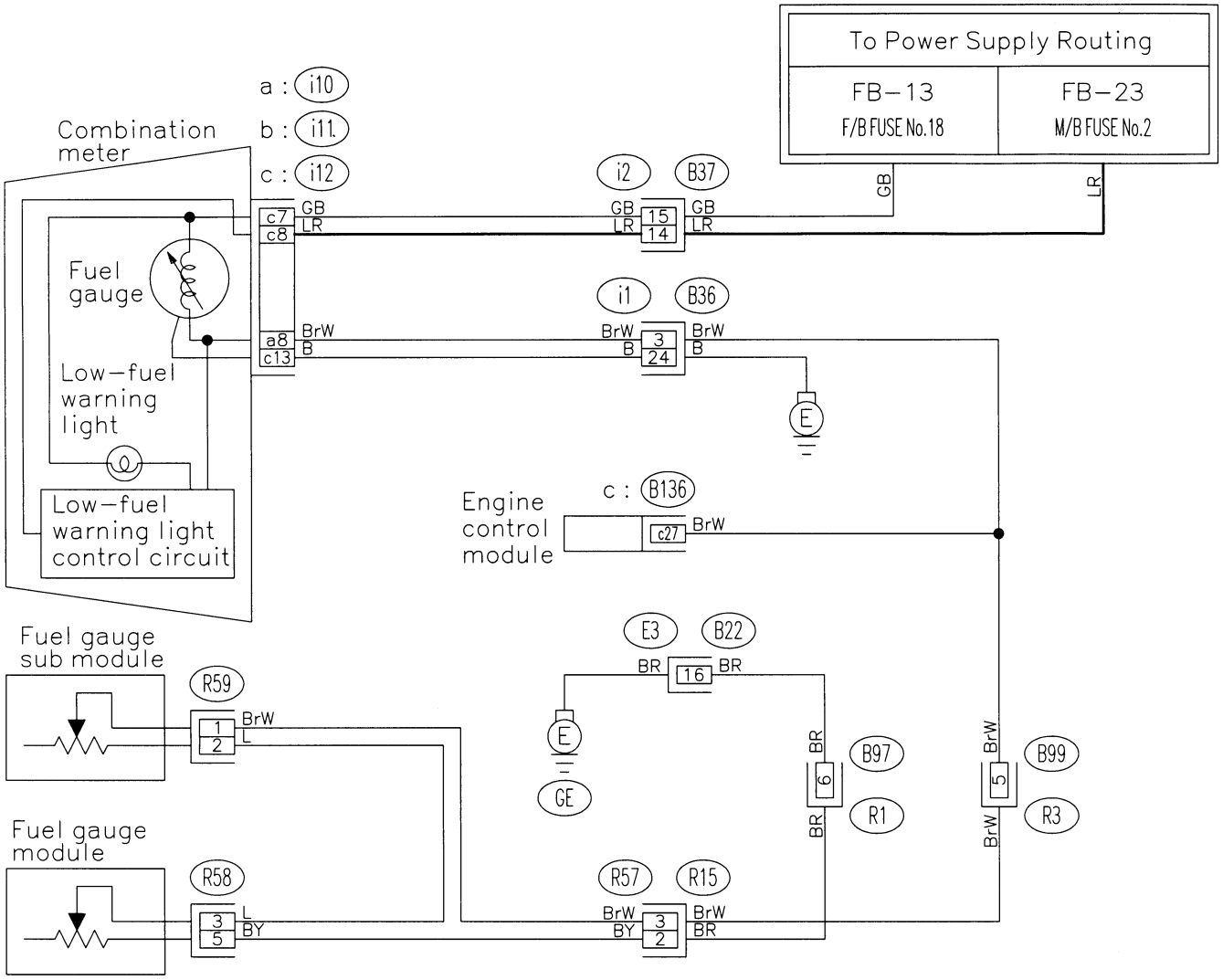
FRONT WIRING HARNESS

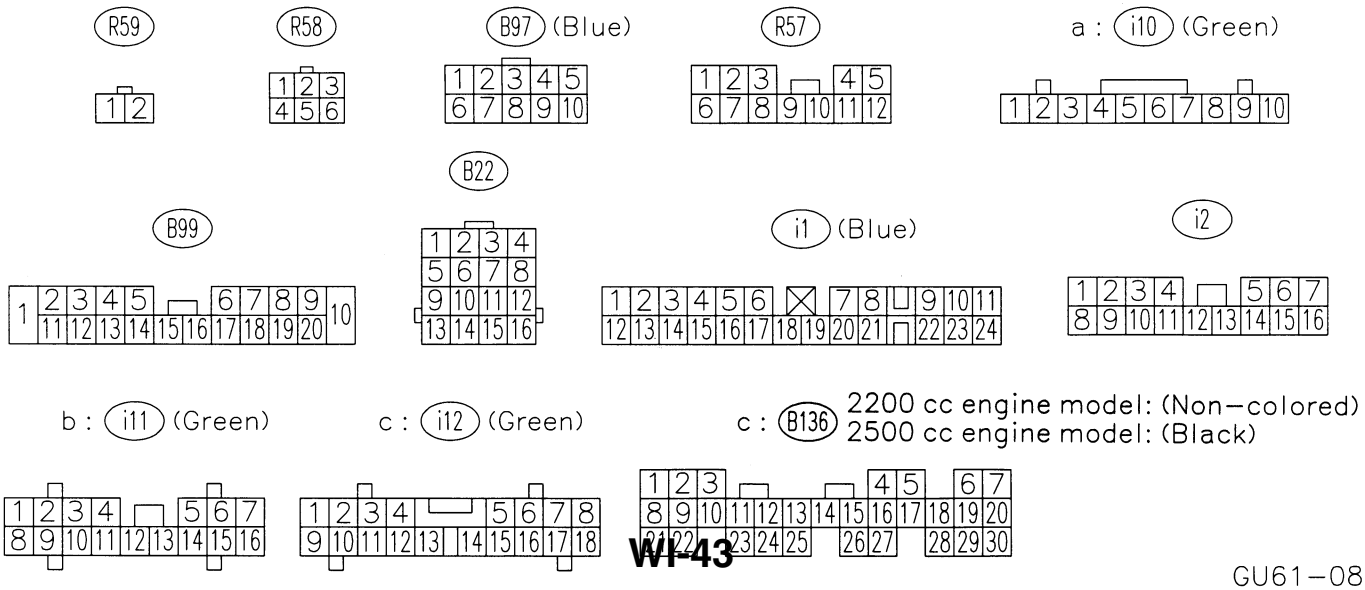


H6M0782A

16. Fuel Gauge System S903046

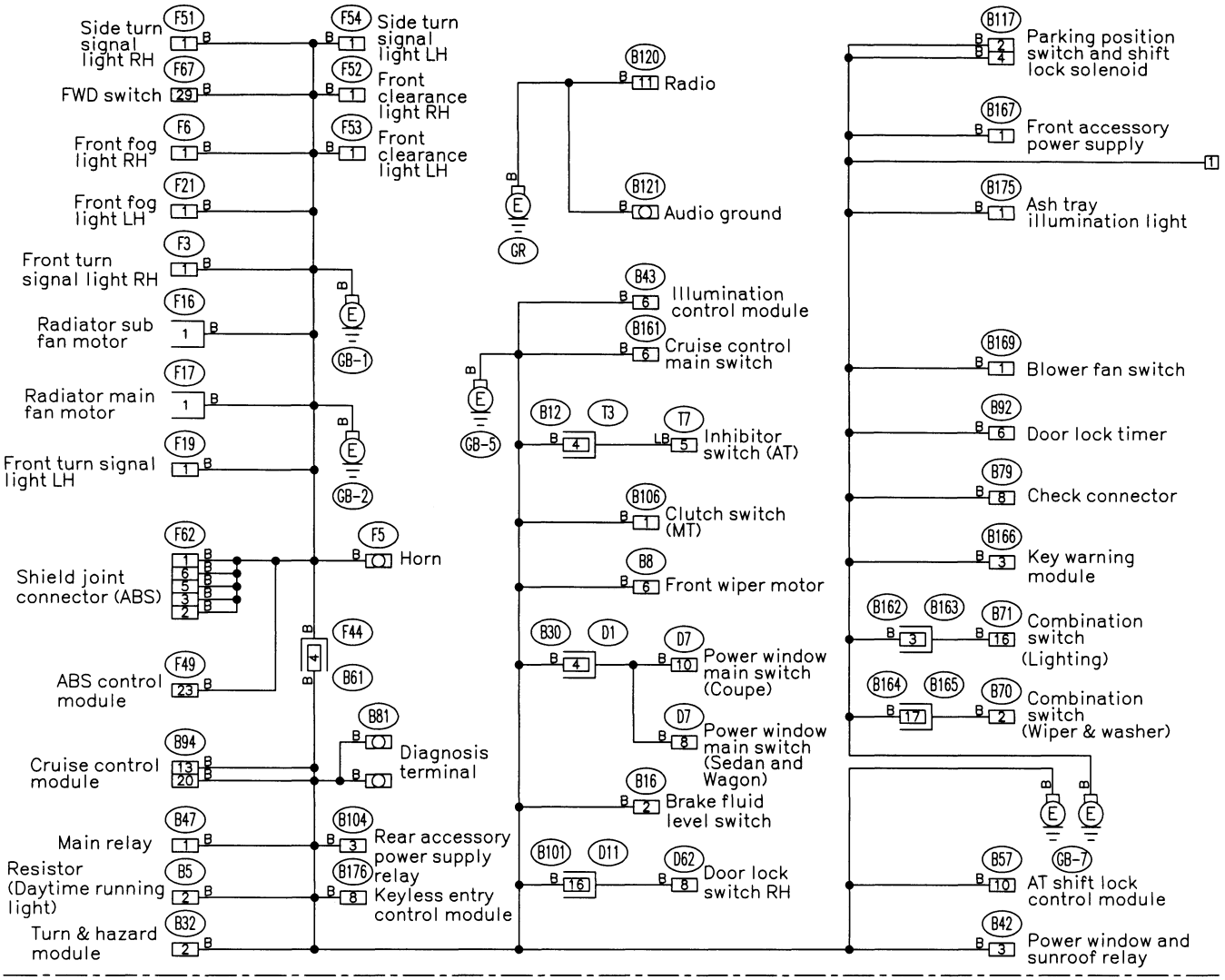
A: SCHEMATIC S903046A21

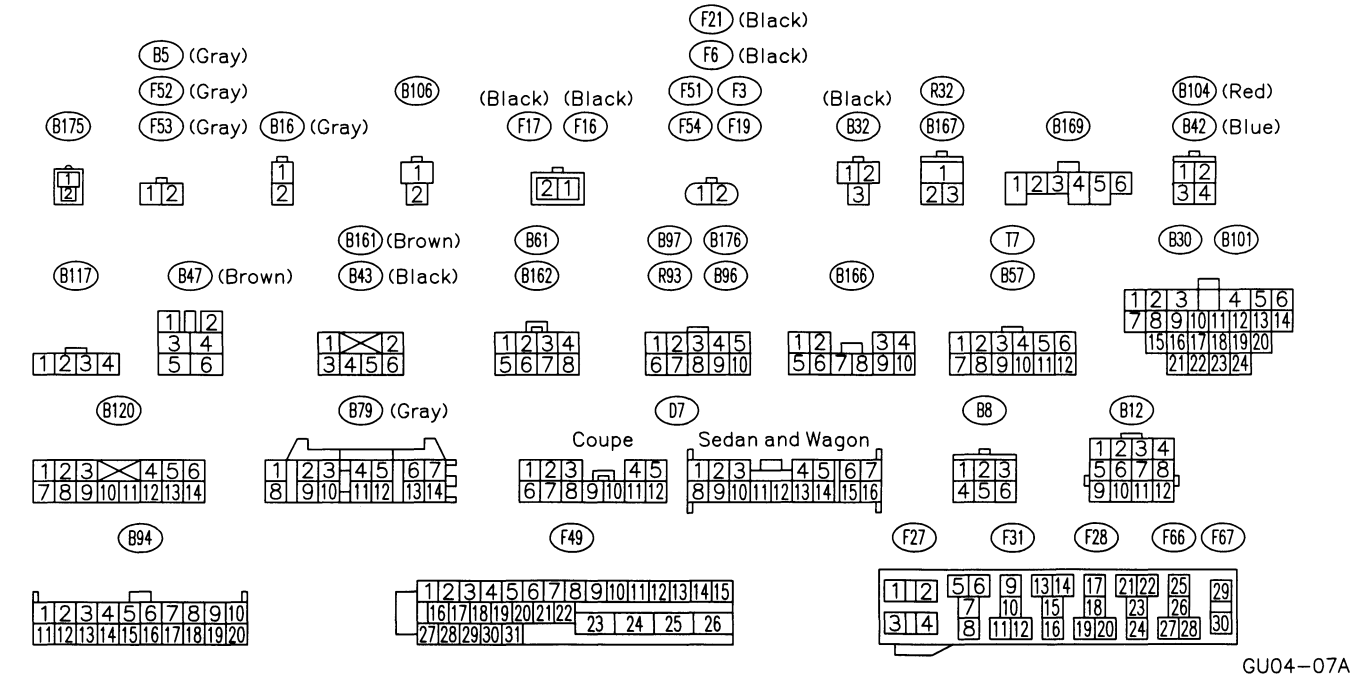




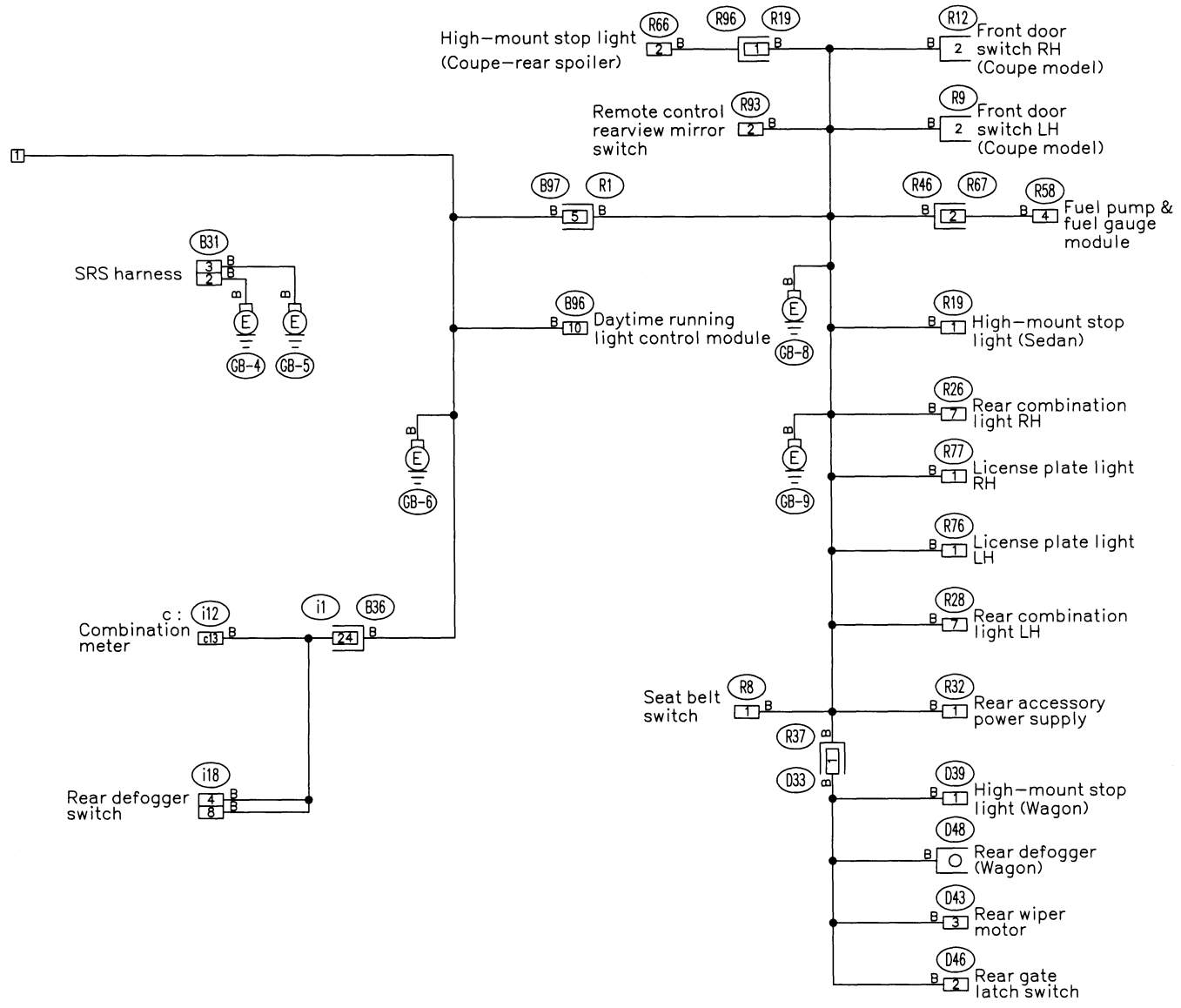
4. Ground Distribution S903472

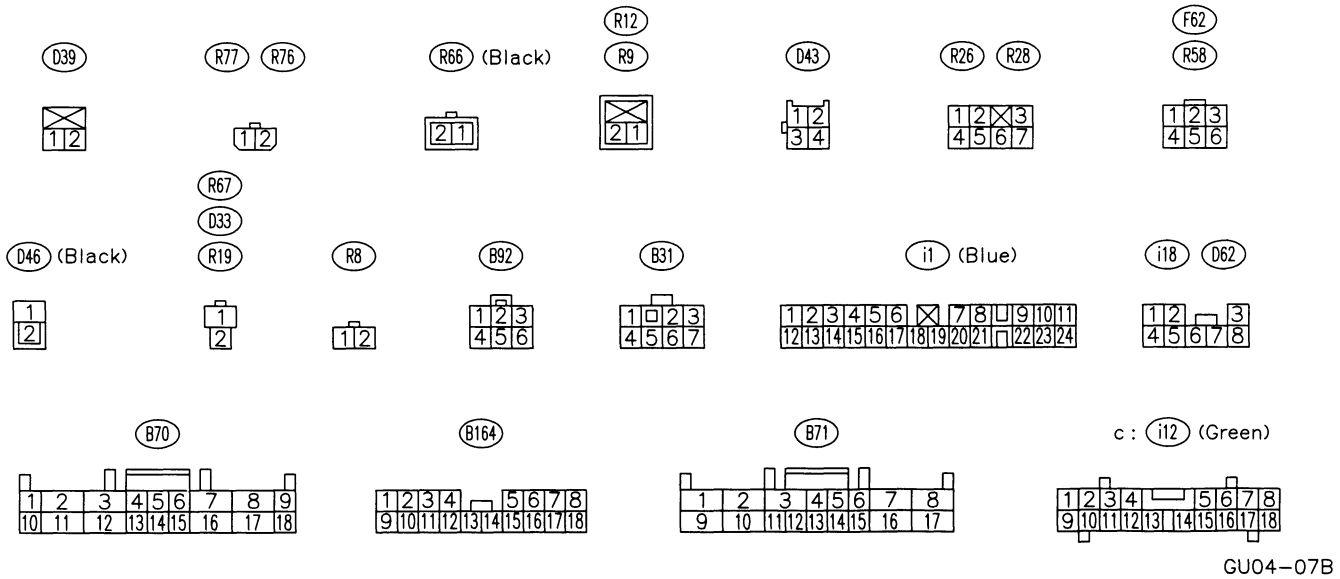
A: SCHEMATIC S903472A21


Side turn signal light RH
FWD switch
Front fog light RH
Front fog light LH
Front turn signal light RH
Radiator sub fan motor
Radiator main fan motor
Front turn signal light LH
Shield joint connector (ABS)
ABS control module
Cruise control module
Main relay
Resistor (Daytime running light)
Turn & hazard module
Side turn signal light LH
Front clearance light RH
Front clearance light LH
Horn
Diagnosis terminal
Rear accessory power supply relay
Keyless entry control module
Radio
Audio ground
Illumination control module
Cruise control main switch
Inhibitor switch (AT)
Clutch switch (MT)
Front wiper motor
Power window main switch (Coupe)
Power window main switch (Sedan and Wagon)
Brake fluid level switch
Door lock switch RH
Parking position switch and shift lock solenoid
Front accessory power supply
Ash tray illumination light
Blower fan switch
Door lock timer
Check connector
Key warning module
Combination switch (Lighting)
Combination switch (Wiper & washer)
AT shift lock control module
Power window and sunroof relay

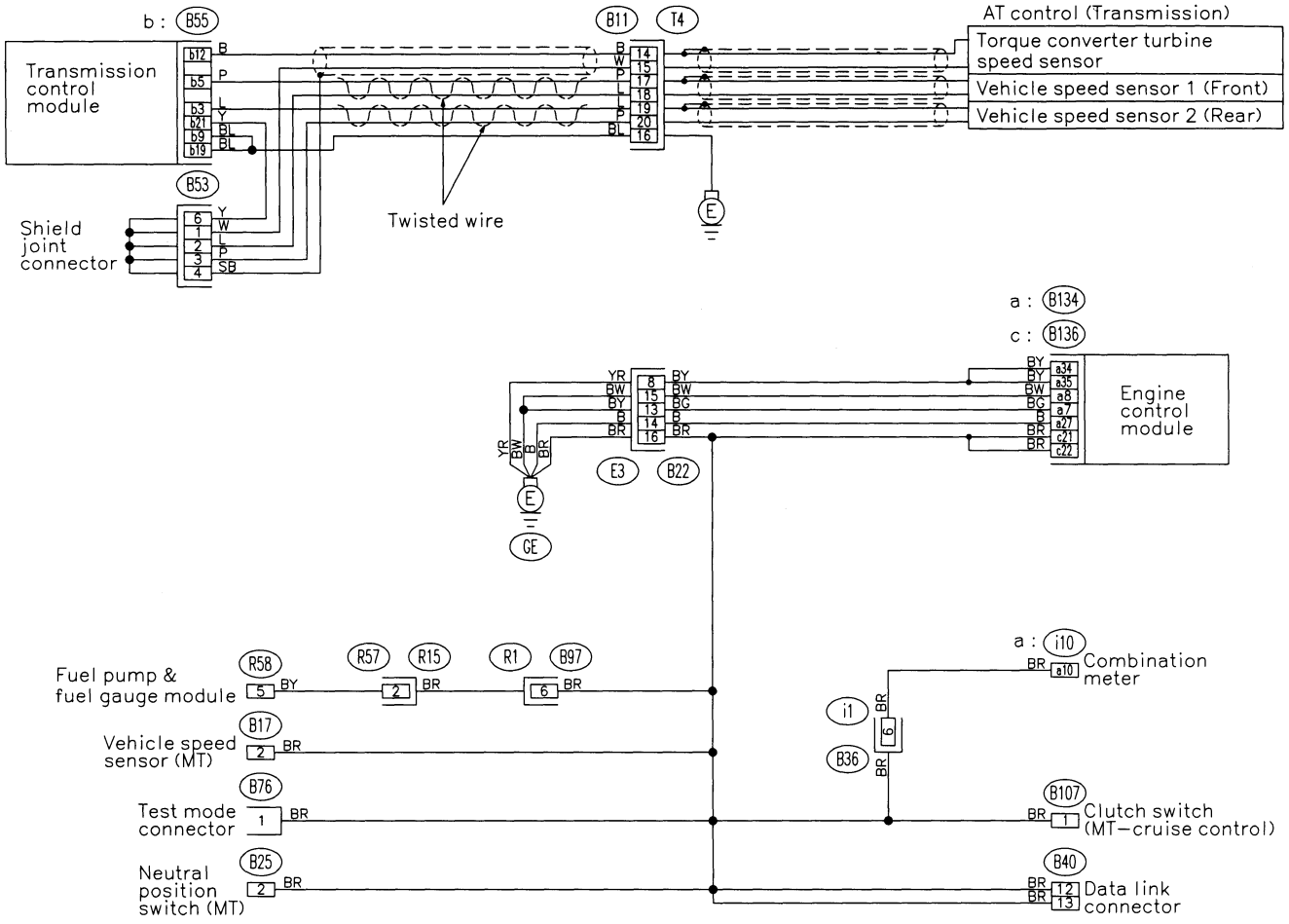

GU04-07A

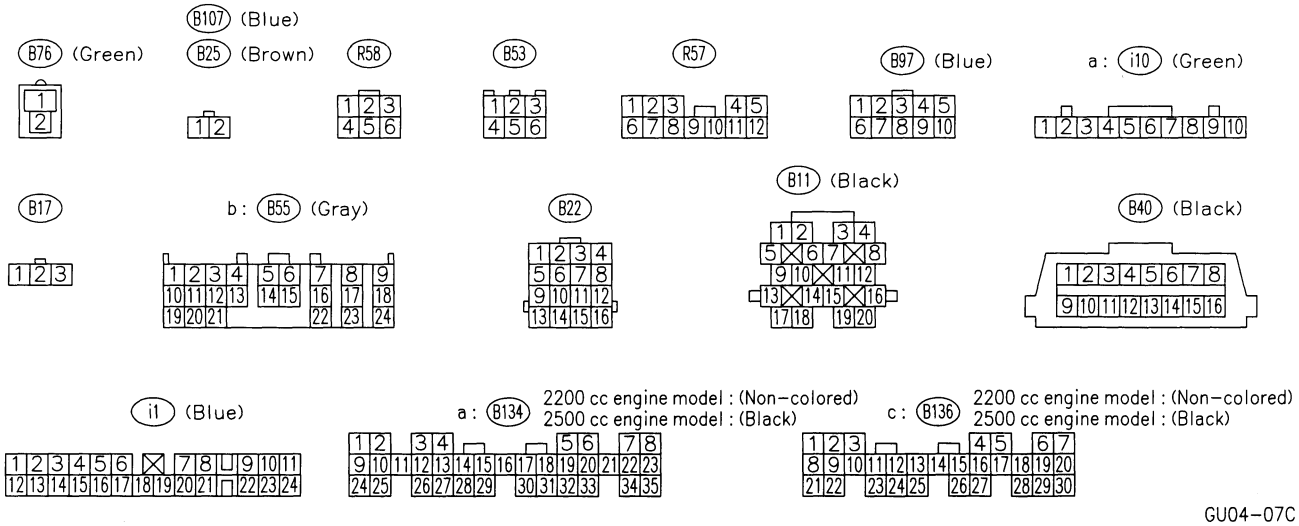
GROUND DISTRIBUTION





GU04−07B


b : B55
B11
T4
AT control (Transmission)
Transmission control module
Torque converter turbine speed sensor
Vehicle speed sensor 1 (Front)
Vehicle speed sensor 2 (Rear)
B53
Shield joint connector
Twisted wire
a : B134
c : B136
Engine control module
E3
B22
GE
Fuel pump & fuel gauge module
R58
R57
R15
R1
B97
Vehicle speed sensor (MT)
B17
Test mode connector
B76
Neutral position switch (MT)
B25
a : i10
Combination meter
i1
B36
B107
Clutch switch (MT–cruise control)
B40
Data link connector

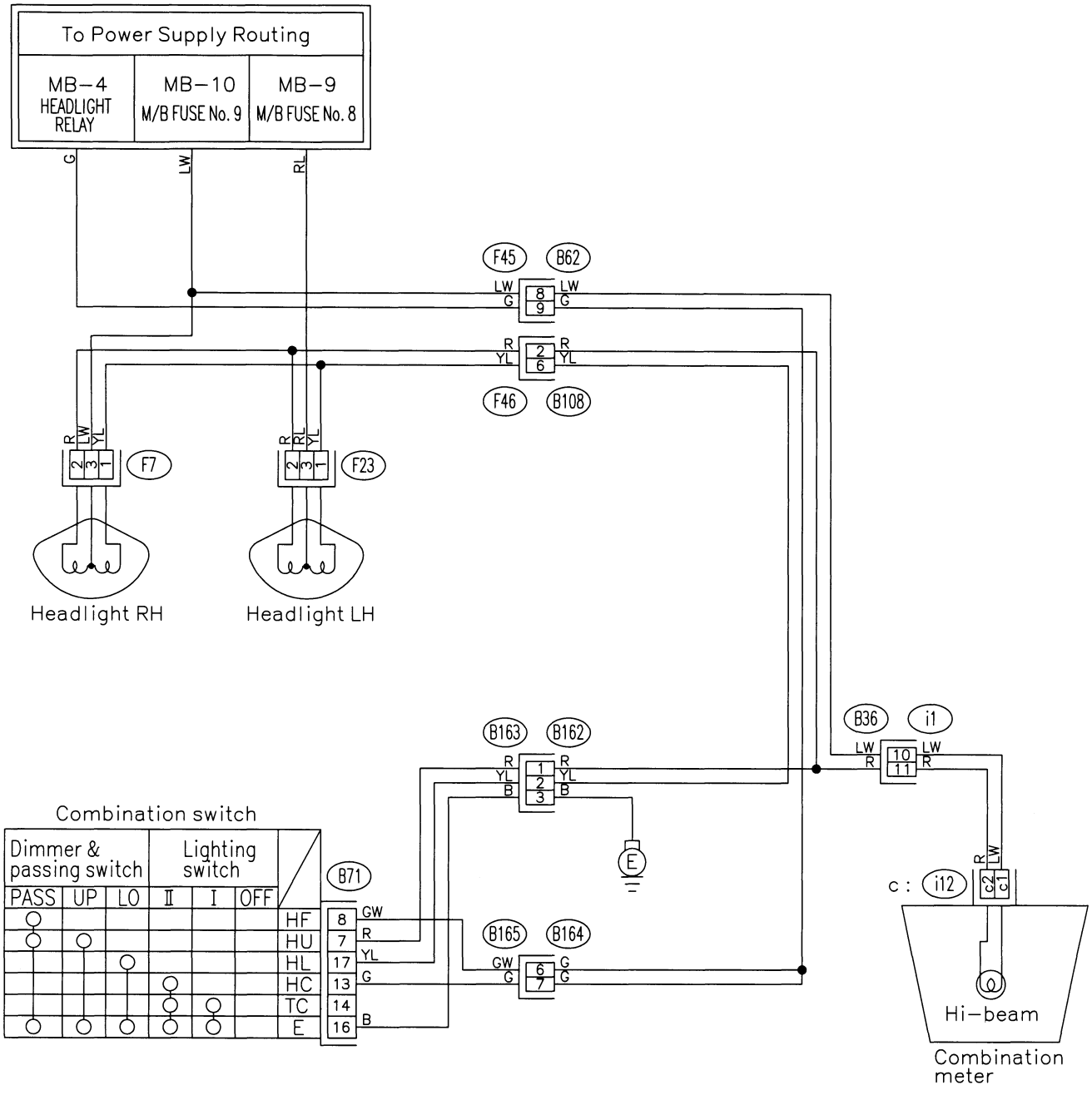

B76 (Green)
B107 (Blue)
B25 (Brown)
R58
B53
R57
B97 (Blue)
a : i10 (Green)
B17
b : B55 (Gray)
B22
B11 (Black)
B40 (Black)
i1 (Blue)
a : B134
2200 cc engine model : (Non–colored)
2500 cc engine model : (Black)
c : B136
2200 cc engine model : (Non–colored)
2500 cc engine model : (Black)

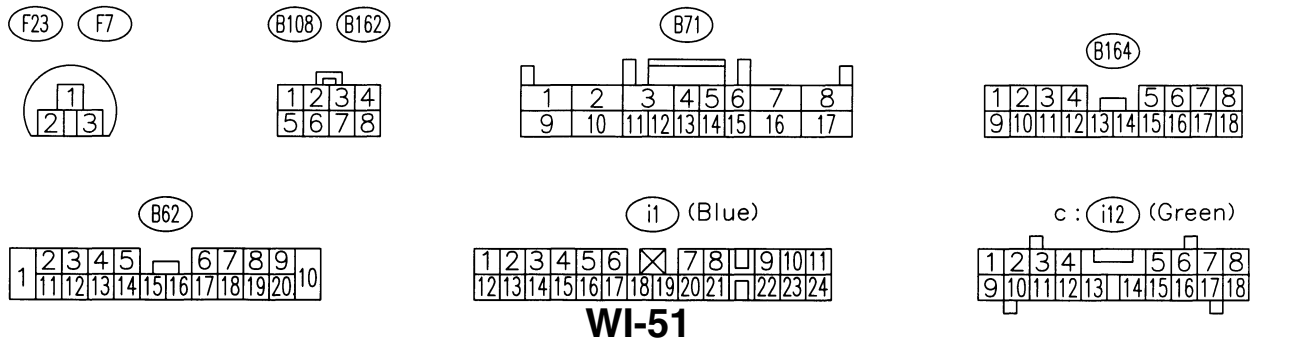
GU04–07C

22. Headlight System S903474

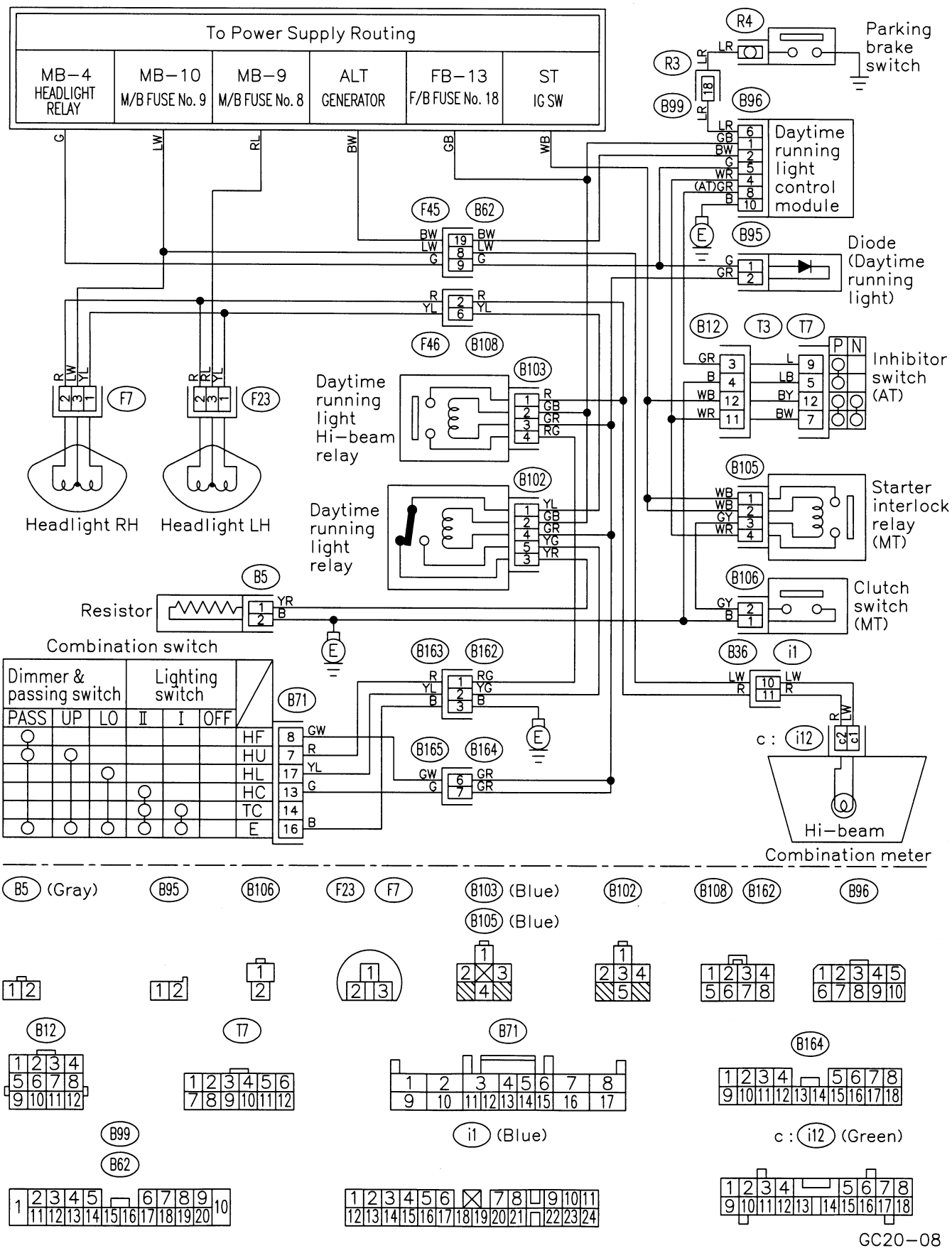
A: SCHEMATIC S903474A21

1. WITHOUT DAYTIME RUNNING LIGHT MODEL S903474A2105





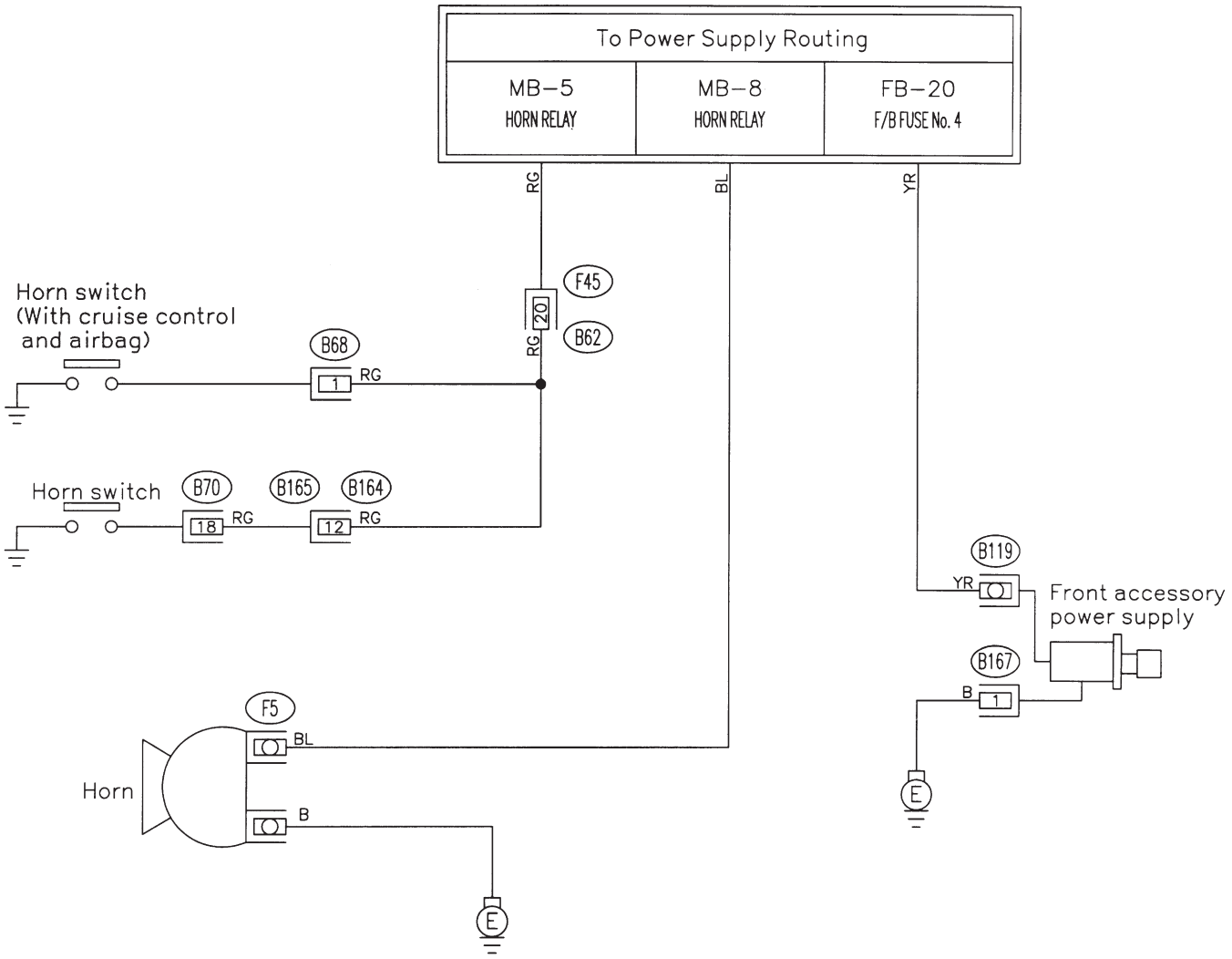
2. WITH DAYTIME RUNNING LIGHT MODEL S903474A2106

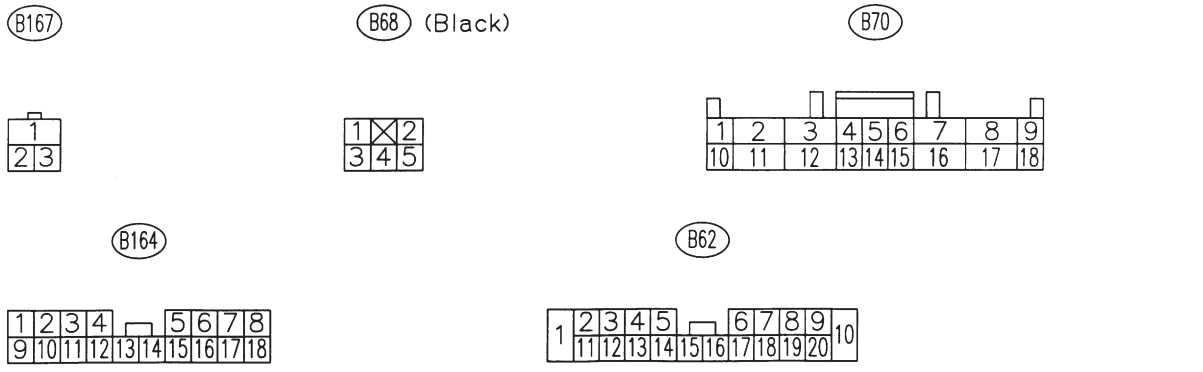


GC20−08

17. Horn and Front Accessory Power Supply System S903724

A: SCHEMATIC S903724A21

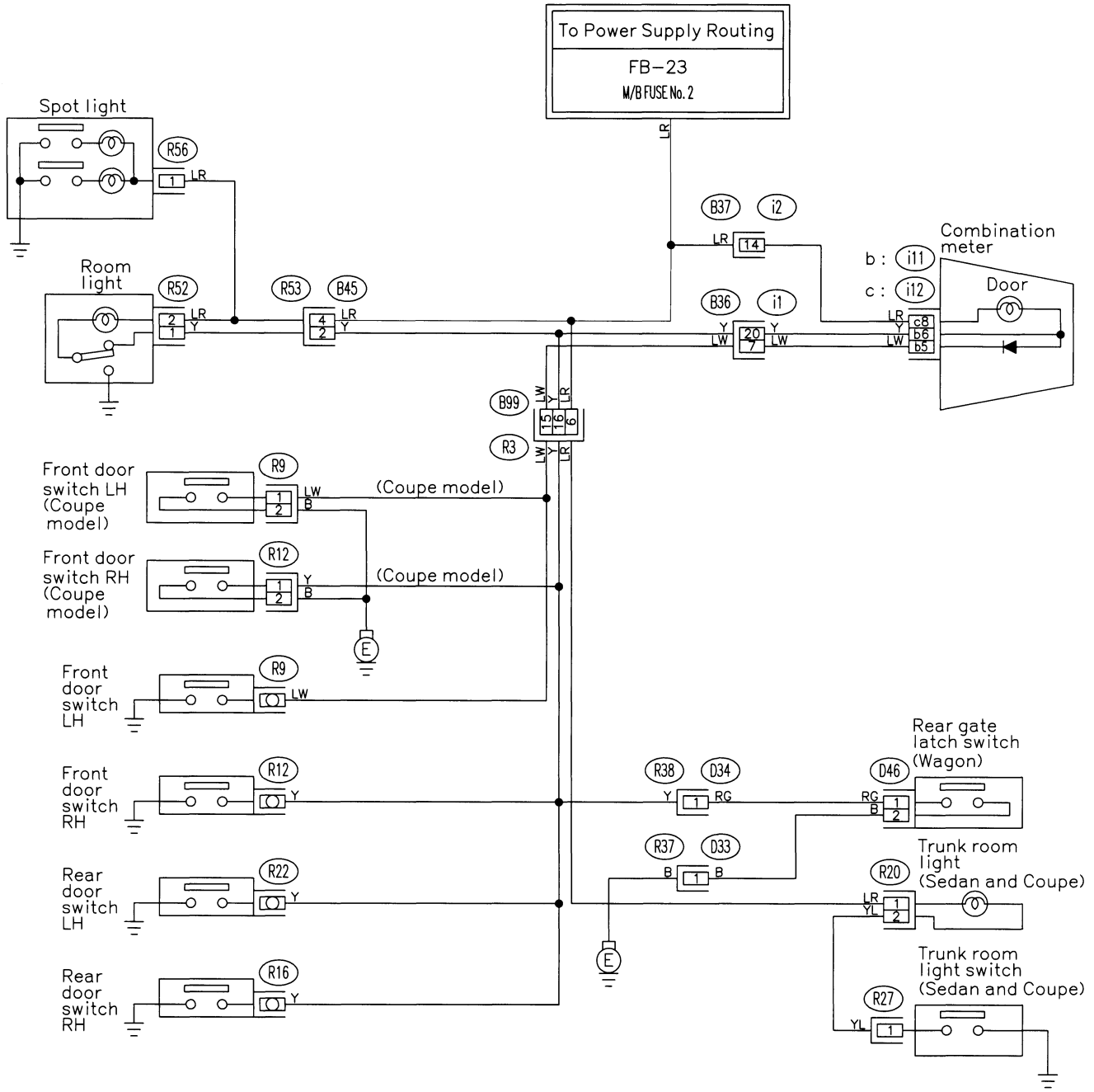


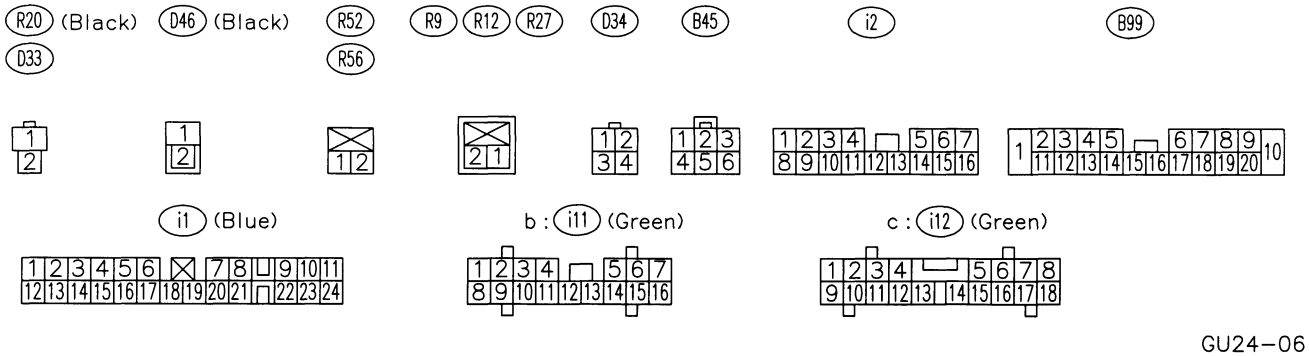


GU74–04

23. In Compartment Light System S903665

A: SCHEMATIC S903665A21





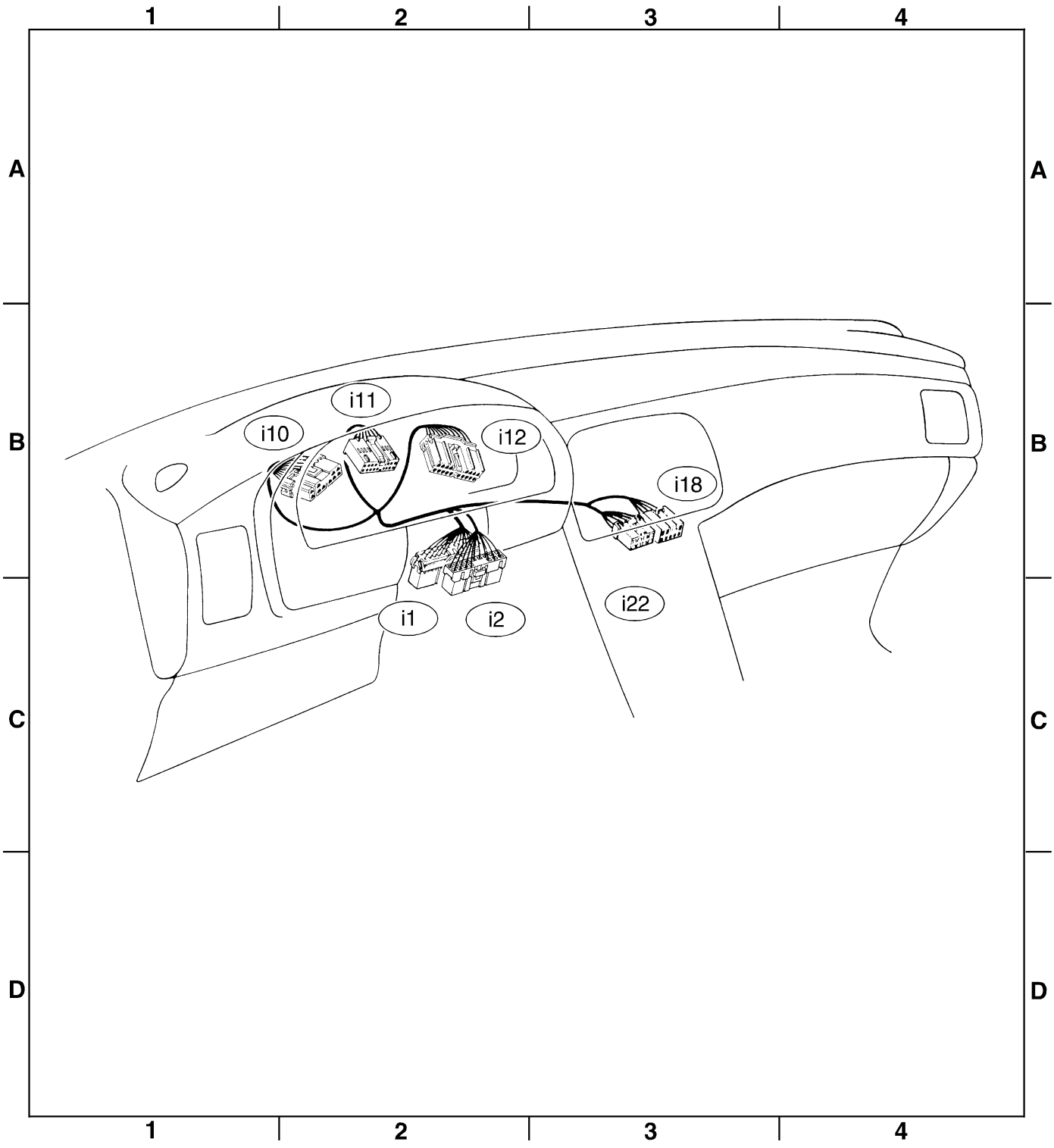
GU24−06

44. Instrument Panel Wiring Harness S903435

A: LOCATION S903435A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
i1	24	Blue	B-2	B36	Bulkhead wiring harness
i2	16	★	B-2	B37	
i10	10	Green	B-2		Combination meter
i11	16	Green	B-2		
i12	18	Green	B-2		
i18	8	★	B-3		Rear defogger switch
i22	8	★	B-3		Hazard switch
★: Non-colored					

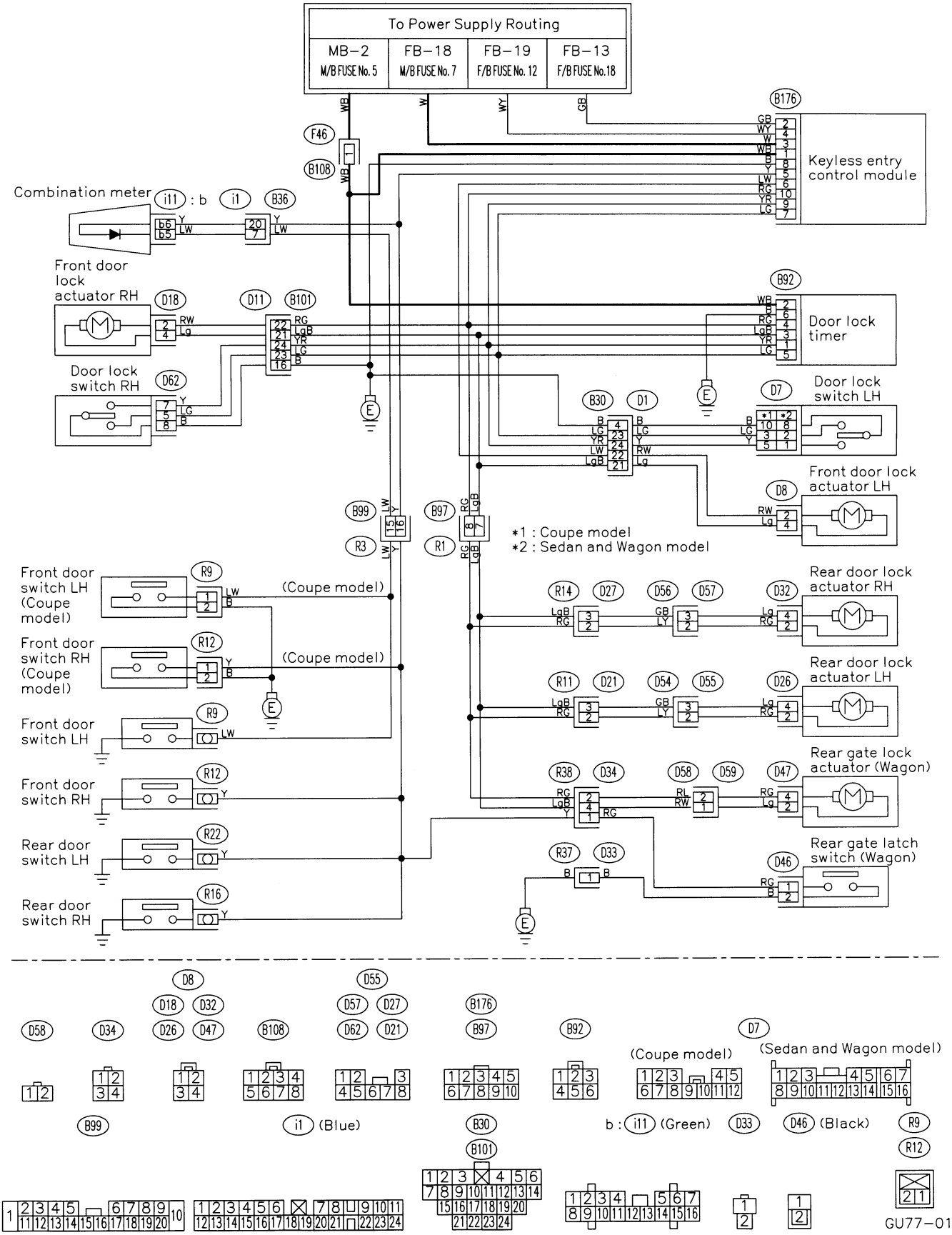
INSTRUMENT PANEL WIRING HARNESS



H6M0788A

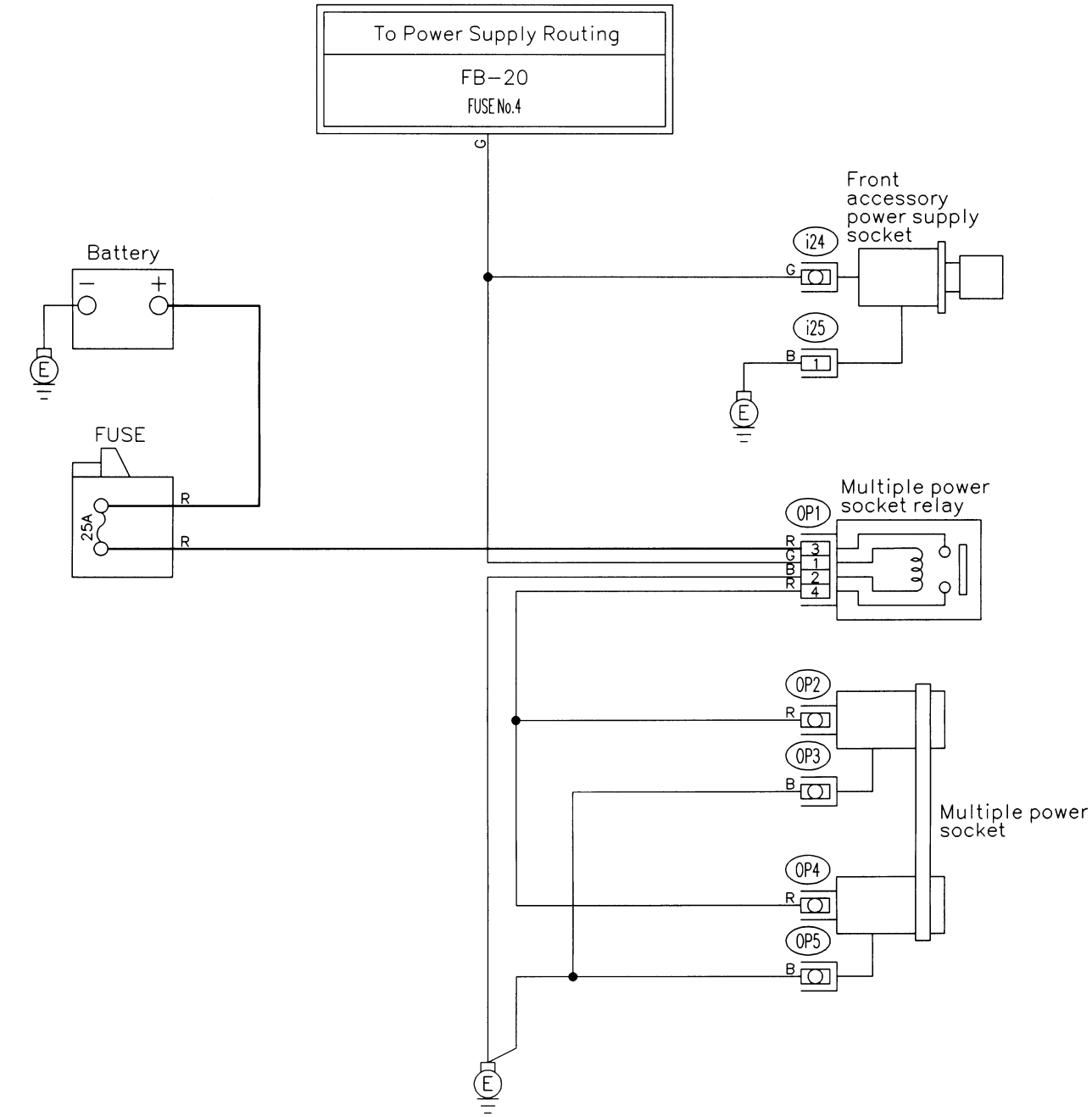
18. Keyless Entry System S903345

A: SCHEMATIC S903345A21



26. Multiple Power Socket System (Option) S903666

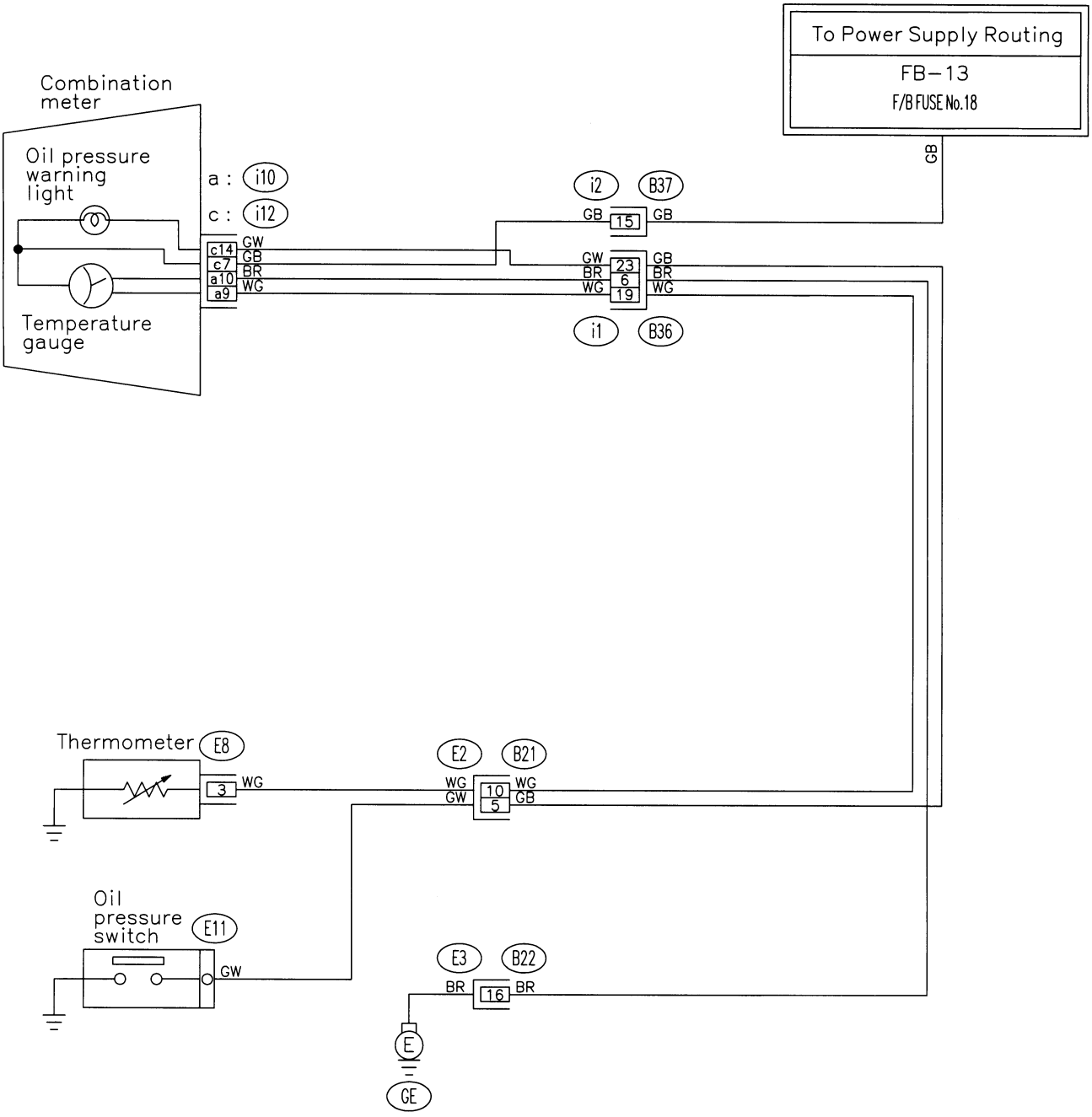
A: SCHEMATIC S903666A21

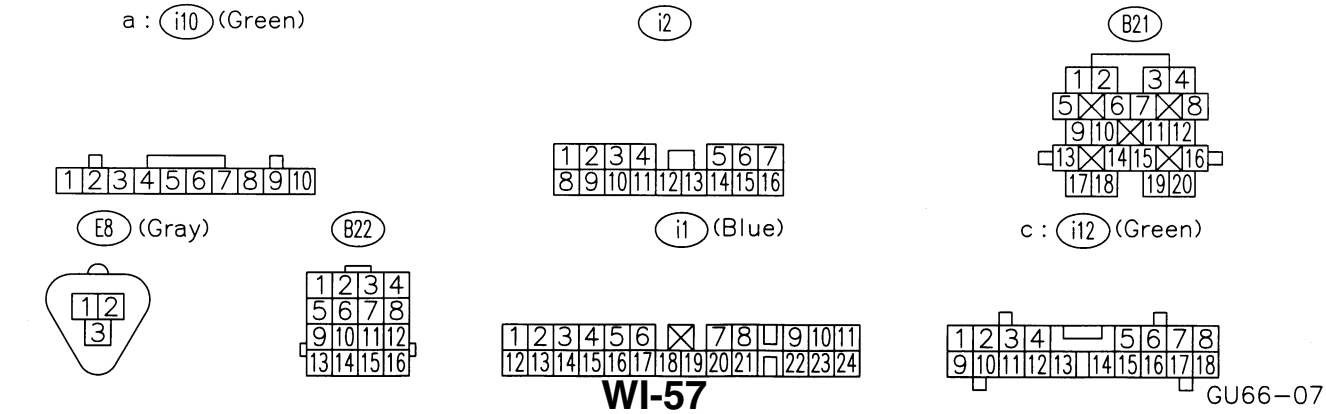


GU82−01

27. Oil Pressure and Temperature Gauge System S903725

A: SCHEMATIC S903725A21

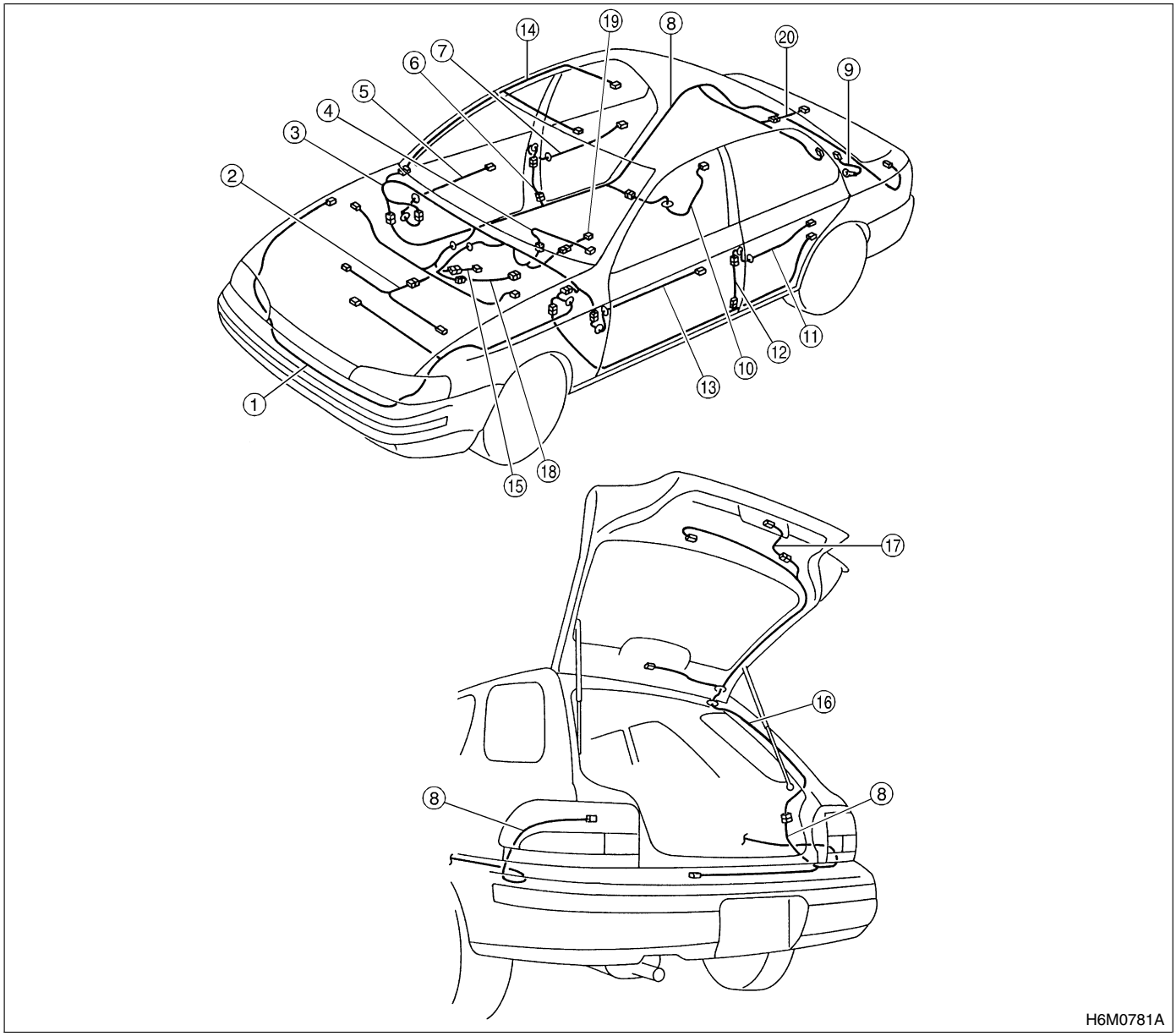




GU66−07

39. Overall Systems S903672

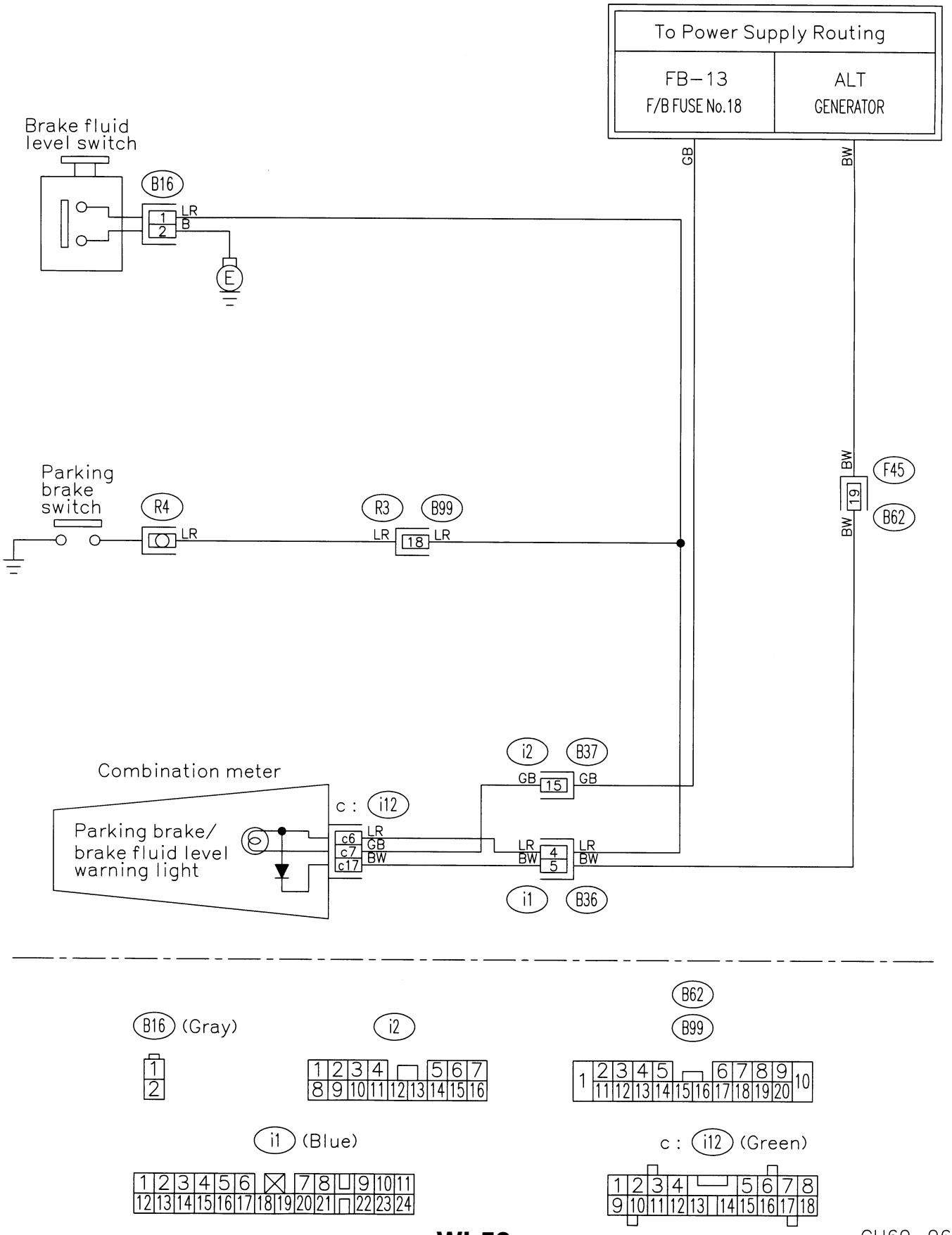
A: LOCATION S903672A13



(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 adapter cord RH
(7) Rear door cord RH
(8) Rear wiring harness
(9) Rear defogger cord (Ground)
(10) Fuel tank cord
(11) Rear door cord LH
(12) Rear door adapter cord LH
(13) Front door cord LH
(14) Roof cord
(15) Transmission cord
(16) Rear gate cord
(17) Rear gate lock adapter cord
(18) Oxygen sensor cord
(19) Combination switch cord
(20) Trunk lid cord

28. Parking Brake and Brake Fluid Level Warning System S903478

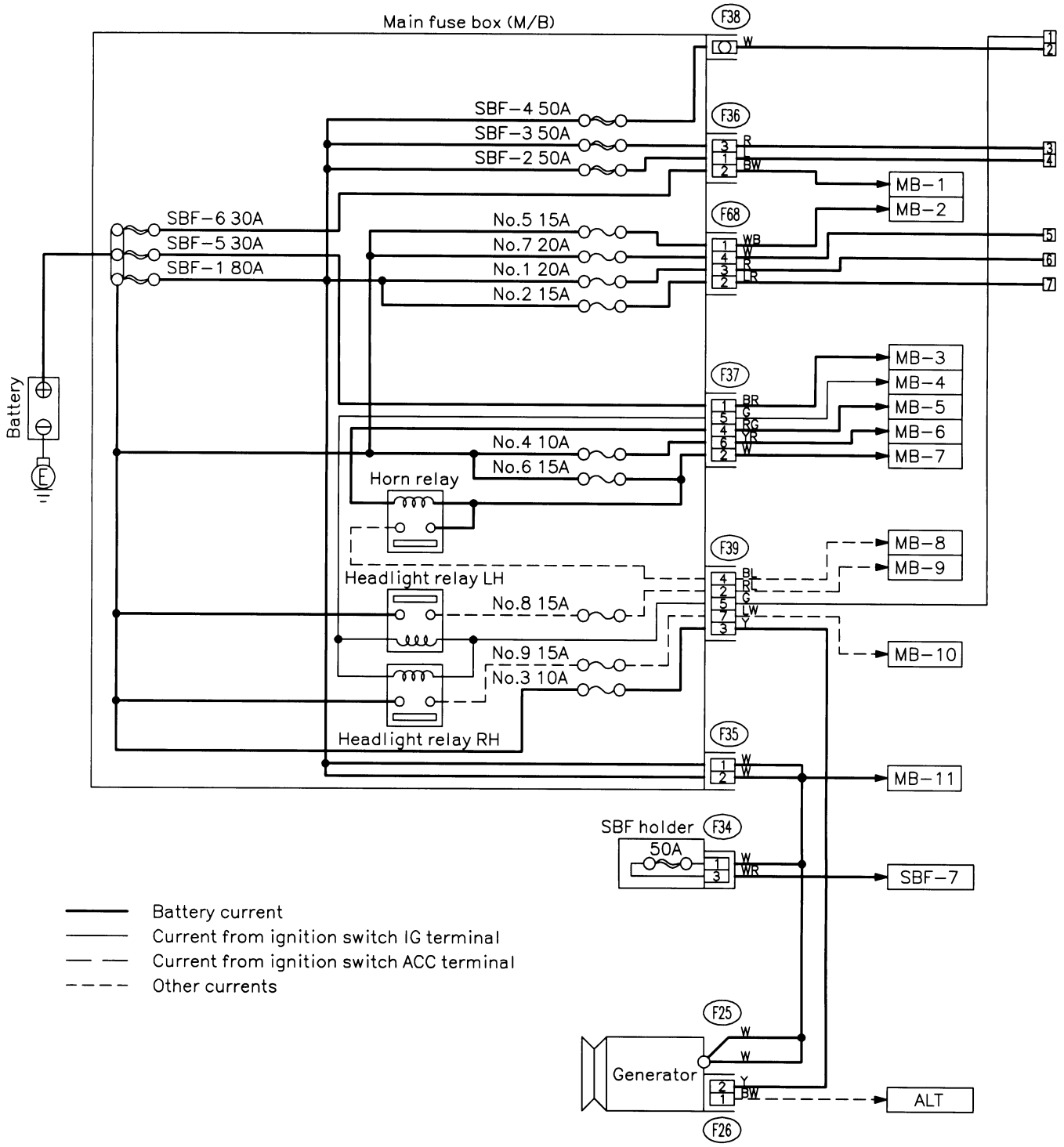
A: SCHEMATIC S903478A21

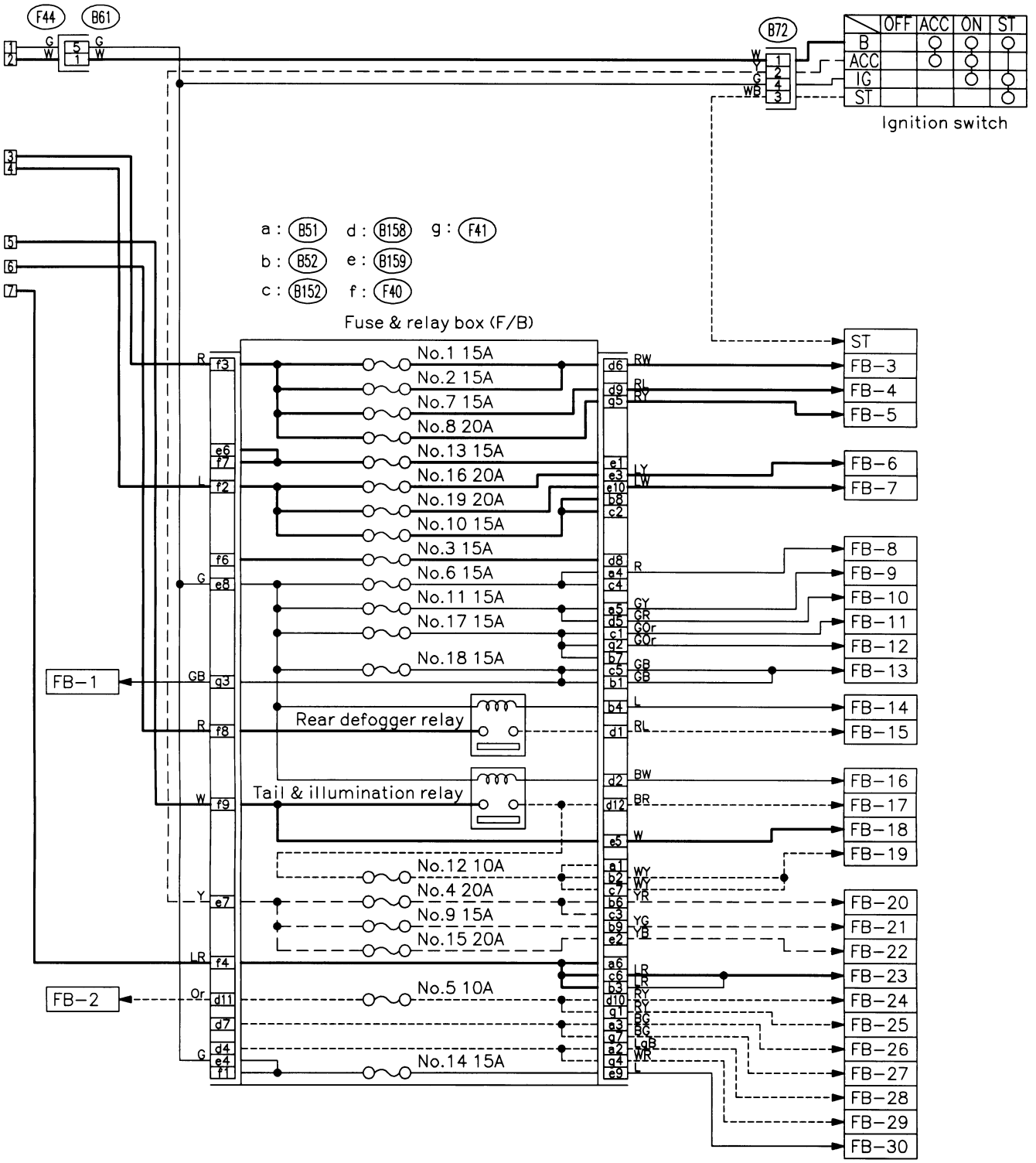


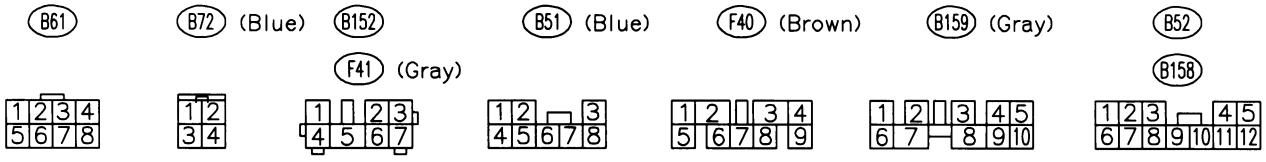
GU60−06

3. Power Supply Routing S903465

A: SCHEMATIC S903465A21




F44
B61
B72
OFF ACC ON ST
B
ACC
IG
ST
Ignition switch
a : B51 d : B158 g : F41
b : B52 e : B159
c : B152 f : F40
Fuse & relay box (F/B)
No.1 15A
No.2 15A
No.7 15A
No.8 20A
No.13 15A
No.16 20A
No.19 20A
No.10 15A
No.3 15A
No.6 15A
No.11 15A
No.17 15A
No.18 15A
Rear defogger relay
Tail & illumination relay
No.12 10A
No.4 20A
No.9 15A
No.15 20A
No.5 10A
No.14 15A
FB-1
FB-2
ST
FB-3
FB-4
FB-5
FB-6
FB-7
FB-8
FB-9
FB-10
FB-11
FB-12
FB-13
FB-14
FB-15
FB-16
FB-17
FB-18
FB-19
FB-20
FB-21
FB-22
FB-23
FB-24
FB-25
FB-26
FB-27
FB-28
FB-29
FB-30


B61
B72 (Blue)
B152
F41 (Gray)
B51 (Blue)
F40 (Brown)
B159 (Gray)
B52
B158

GU01–05B

No.	Load
MB-1	Power window and sunroof circuit breaker
MB-2	Door lock timer Keyless entry control module
MB-3	Data link connector Engine control module Fuel pump relay Main relay
MB-4	Daytime running light control module Diode (Daytime running light) Lighting switch
MB-5	Cruise control sub switch Horn switch
MB-6	Transmission control module
MB-7	AT shift lock control module Hazard switch Key warning switch
MB-8	Horn
MB-9	Headlight LH
MB-10	Combination meter Front fog light relay Front fog light switch Headlight RH
MB-11	A/C relay holder
SBF-7	ABS control module
ALT	Combination meter Daytime running light control module
ST	Engine control module (AT) Inhibitor switch (AT) Starter interlock relay (MT)
FB-1	Main fan relay
FB-2	Parking switch
FB-3	Blower motor relay
FB-4	Front fog light relay
FB-5	ABS control module
FB-6	Stop light switch
FB-7	Rear accessory power supply relay
FB-8	Airbag control module
FB-9	Airbag control module
FB-10	Engine control module Fuel pump relay Ignition coil Transmission control module
FB-11	Blower motor relay Mode control panel Rear defogger switch
FB-12	A/C relay Sub fan relay Thermal protector

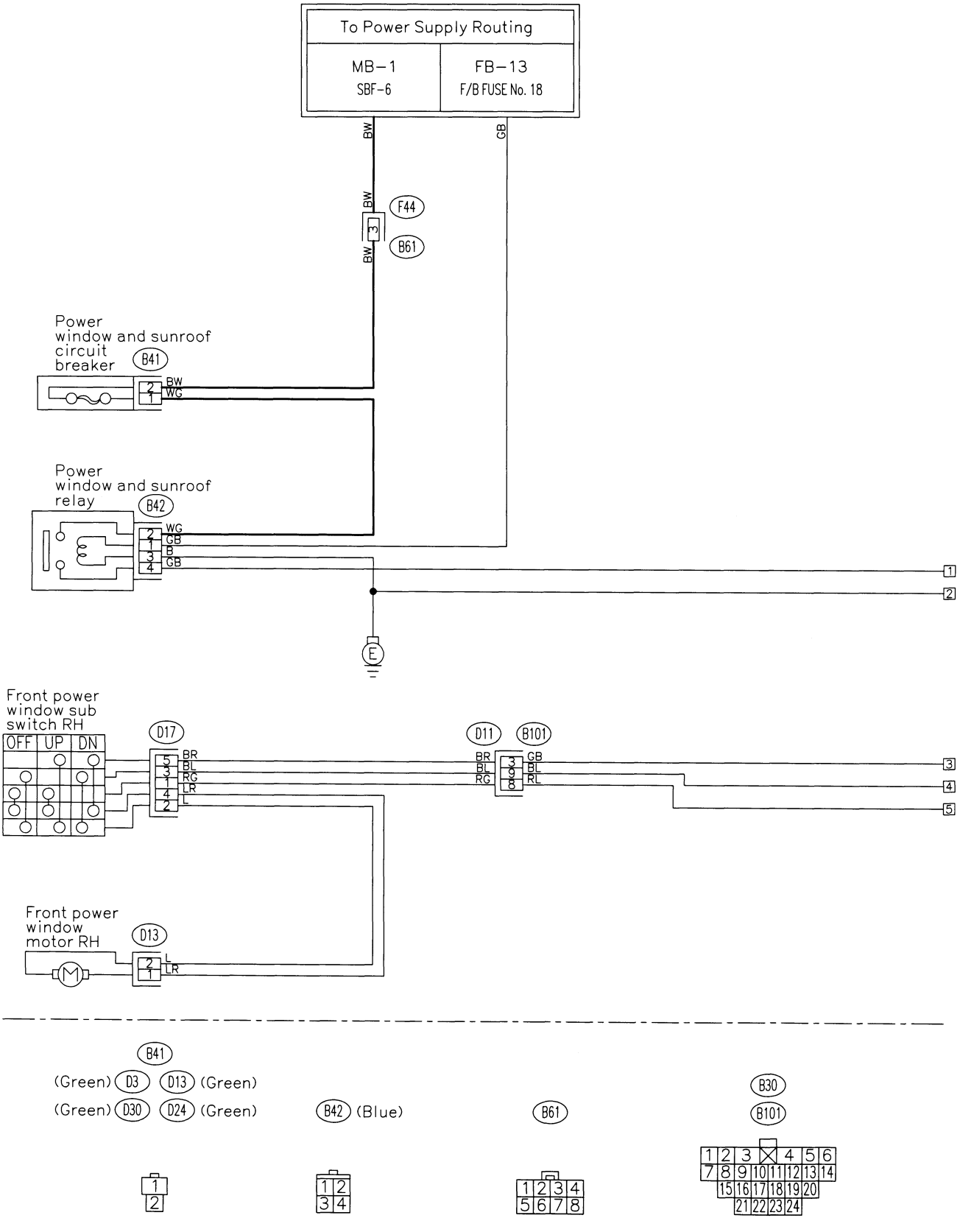
No.	Load
FB-13	Back-up light switch (MT) Check connector Combination meter Daytime running light control module Daytime running light hi-beam relay Daytime running light relay Hazard switch Inhibitor switch (AT) Key warning module Keyless entry control module Power window and sunroof relay Vehicle speed sensor (MT)
FB-14	Engine control module Rear defogger switch
FB-15	Rear defogger Rear defogger switch
FB-16	Lighting switch
FB-17	Parking switch
FB-18	Keyless entry control module Parking switch
FB-19	Clock Illumination control module Illumination light Keyless entry control module
FB-20	AT shift lock control module Front accessory power supply Remote control rearview mirror switch Rear accessory power supply relay
FB-21	Radio
FB-22	Front washer motor Front wiper motor Front wiper & washer switch Rear washer motor Rear wiper motor Rear wiper relay
FB-23	Combination meter Radio Room light Spot light Trunk room light
FB-24	License plate light LH License plate light RH Tail light LH Tail light RH
FB-25	Front clearance light LH Front clearance light RH
FB-26	Combination meter Hazard switch Rear turn signal light LH Turn signal switch
FB-27	Front turn signal light LH Side turn signal light LH
FB-28	Combination meter Hazard switch Rear turn signal light RH Turn signal switch
FB-29	Front turn signal light RH Side turn signal light RH

No.	Load
FB-30	ABS control module AT shift lock control module Cruise control main switch Cruise control module

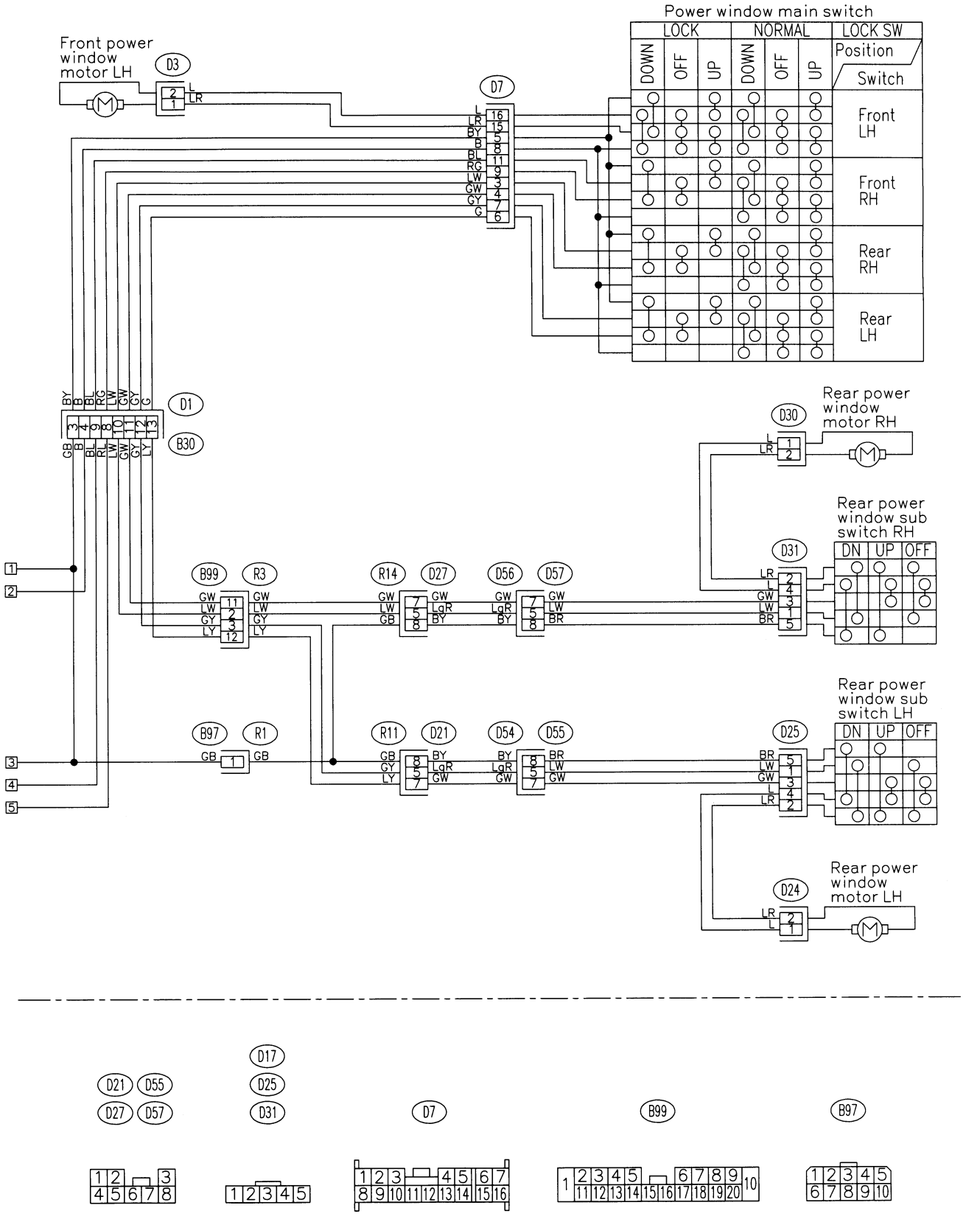
29. Power Window System S903456

A: SCHEMATIC S903456A21

1. SEDAN AND WAGON MODEL S903456A2103



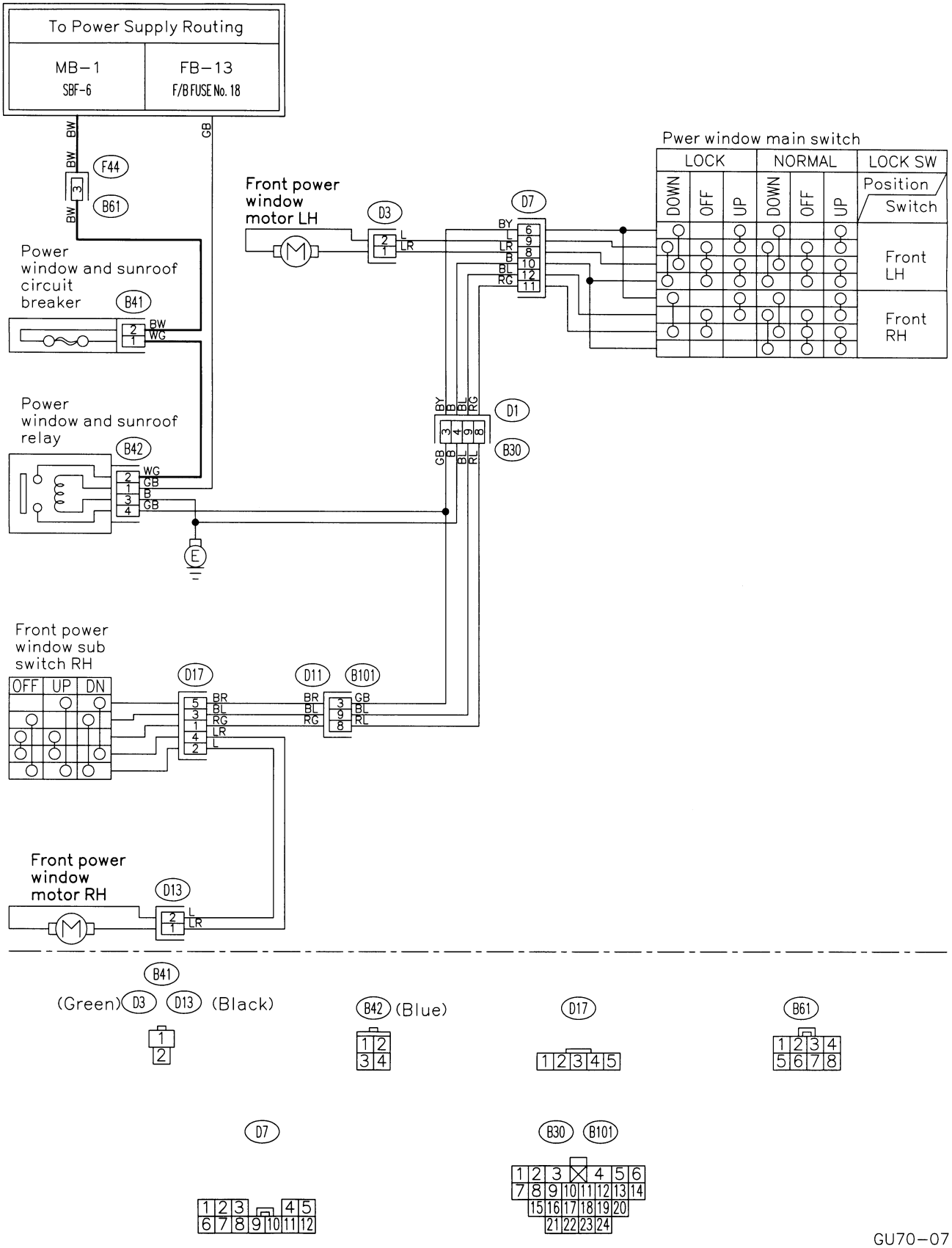
GU70−08A


Power window main switch
LOCK
NORMAL
LOCK SW
DOWN
OFF
UP
DOWN
OFF
UP
Position
Switch
Front LH
Front RH
Rear RH
Rear LH
Front power window motor LH
D3
D7
D1
B30
Rear power window motor RH
D30
Rear power window sub switch RH
D31
DN
UP
OFF
B99
R3
R14
D27
D56
D57
B97
R1
R11
D21
D54
D55
D25
Rear power window sub switch LH
Rear power window motor LH
D24

D21
D55
D27
D57
D17
D25
D31
D7
B99
B97

GU70−08B

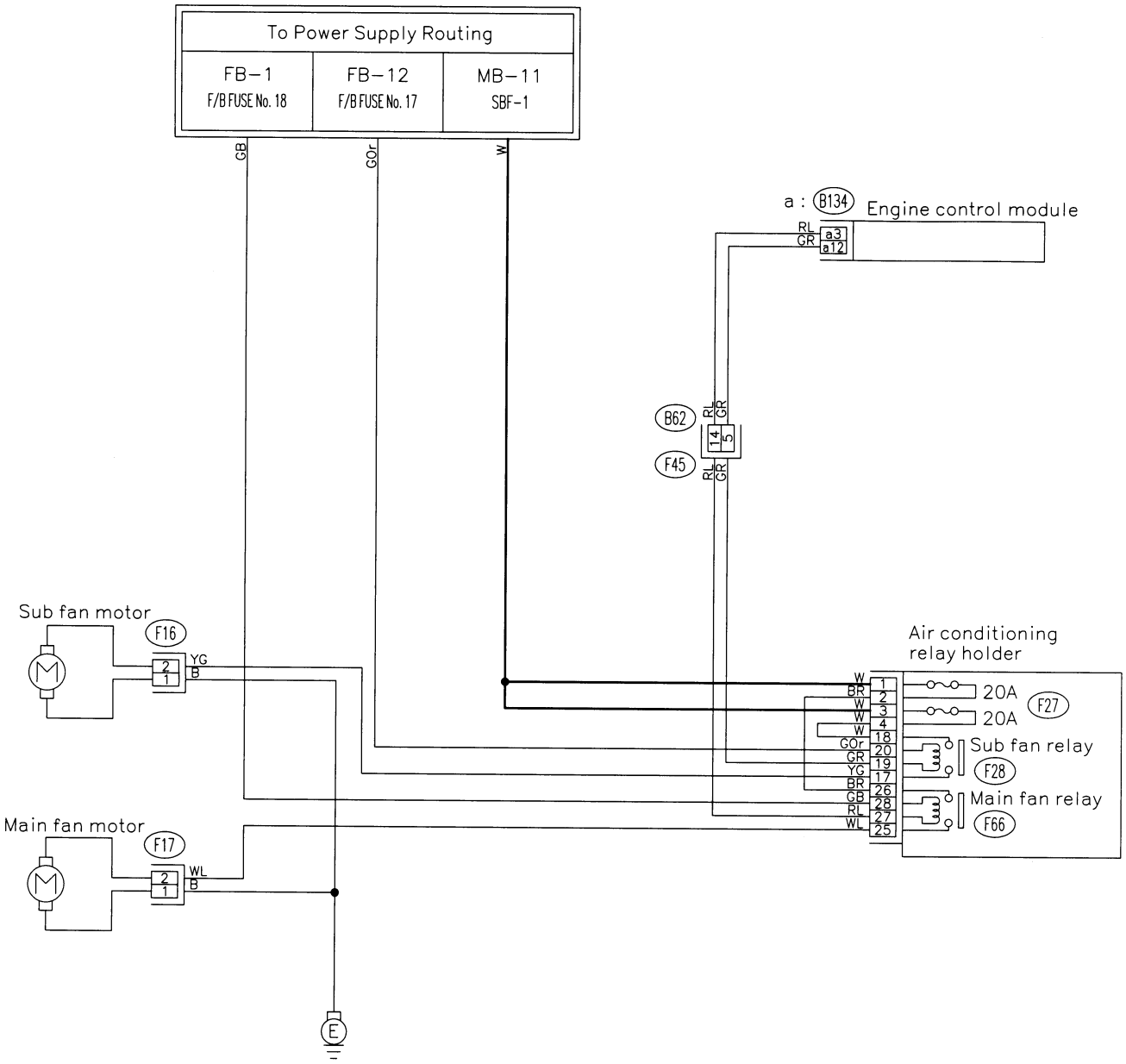
2. COUPE MODEL S903456A2104

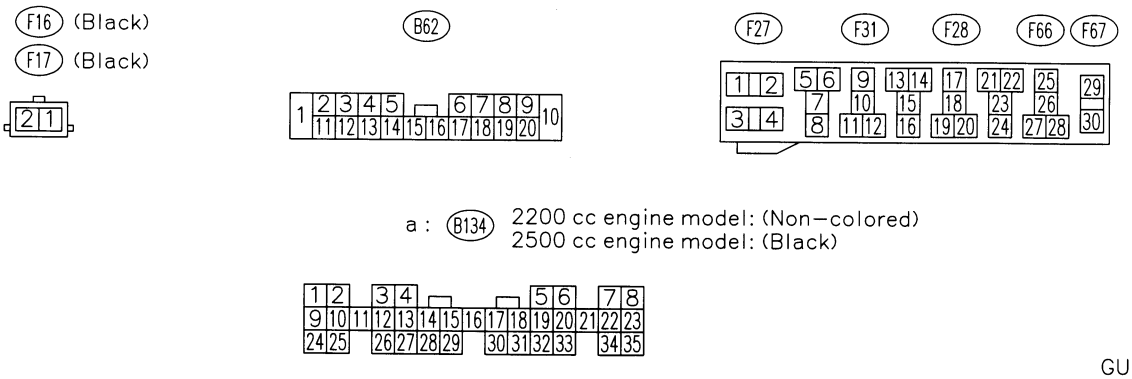


GU70−07

30. Radiator Fan System S903480

A: SCHEMATIC S903480A21

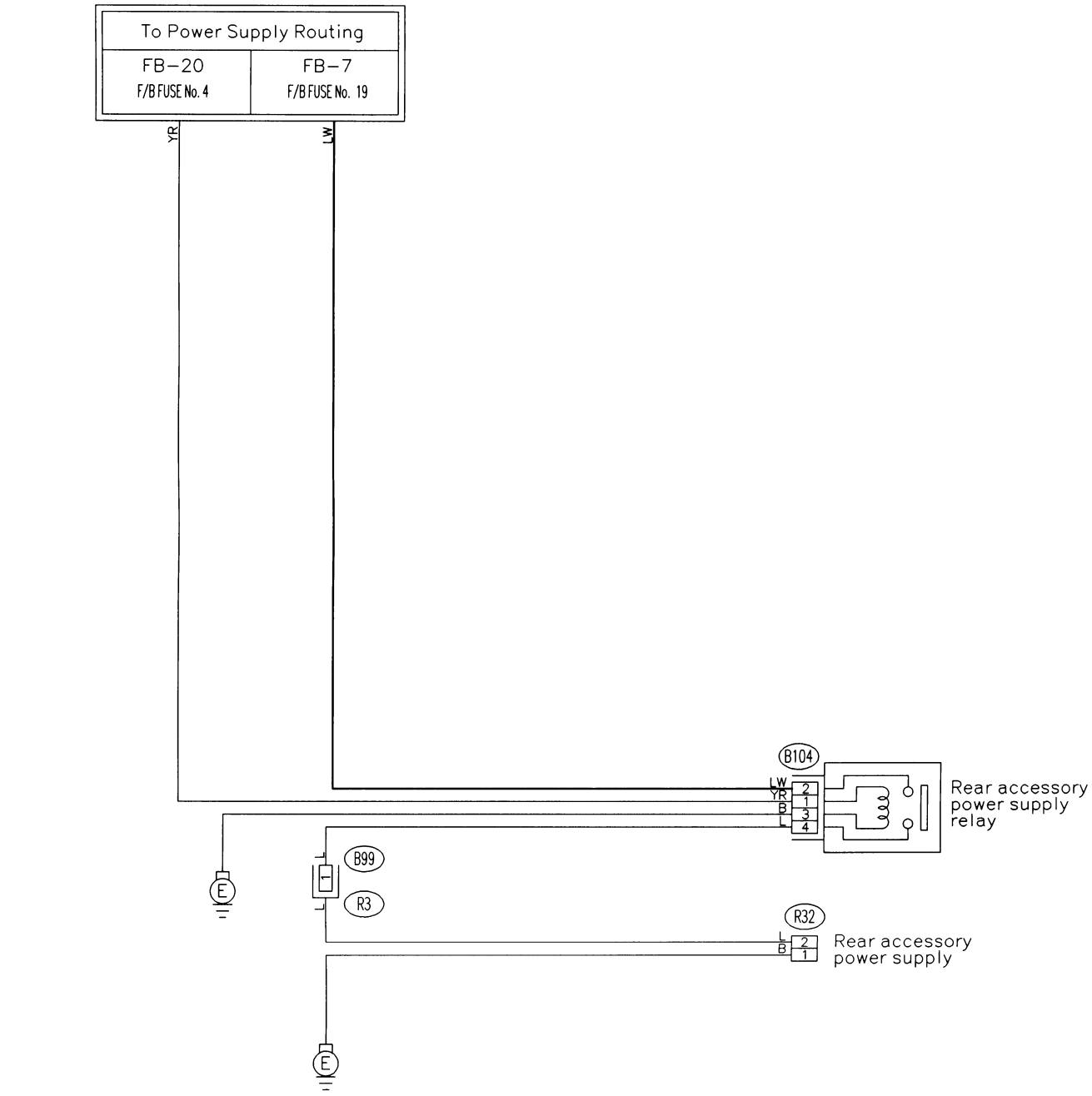


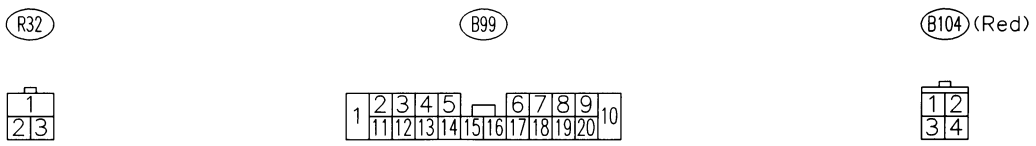


GU14−11

31. Rear Accessory Power Supply System S903670

A: SCHEMATIC S903670A21





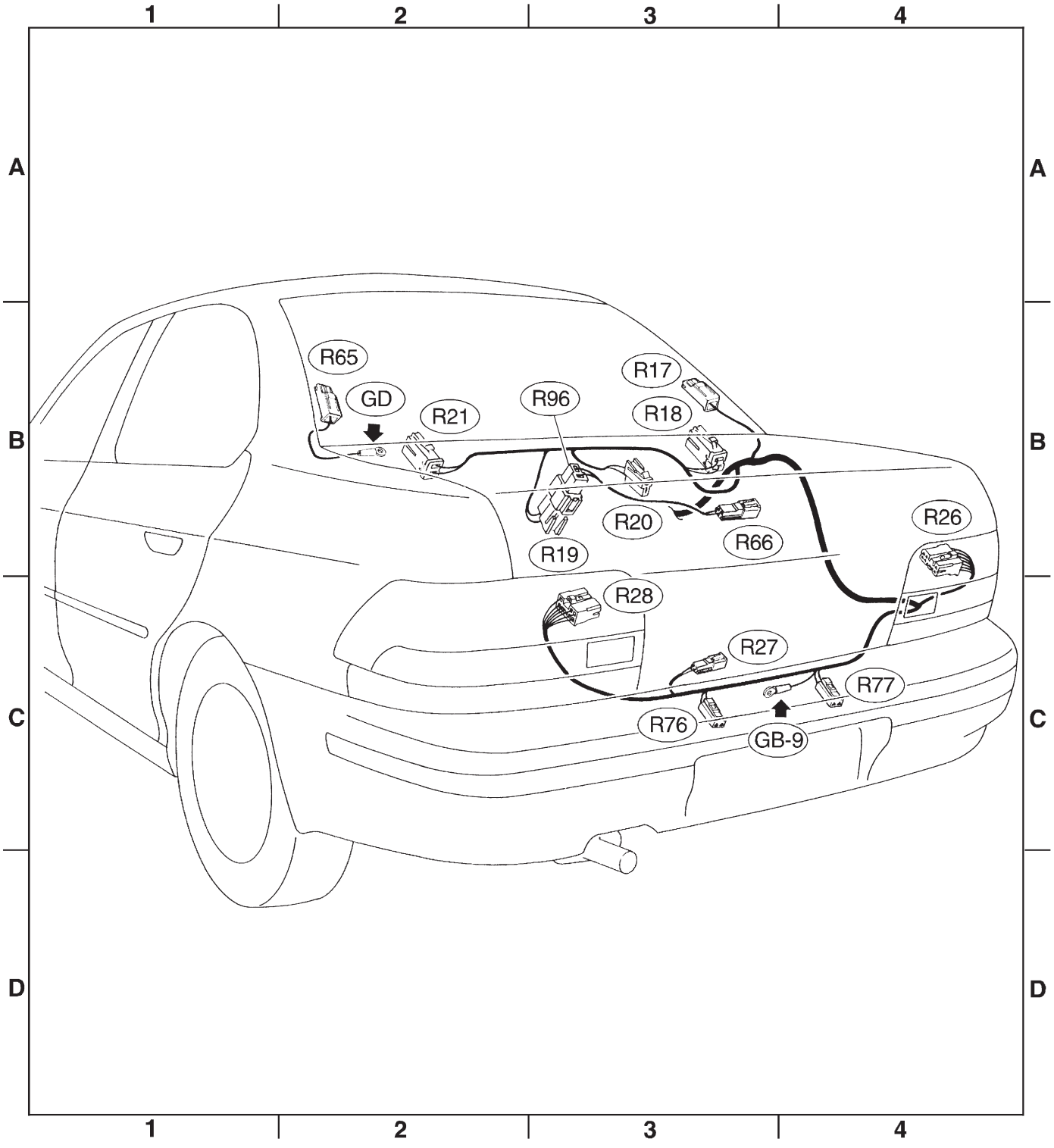
GU90−03

47. Rear End Wiring Harness of Sedan and Coupe S903727

A: LOCATION S903727A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R17	1	Black	B-3		Rear defogger (Power)
R18	2	Black	B-3		Rear speaker RH
R19	2	★	B-3		High-mount stop light (Sedan)
	2	★	B-3	R96	Trunk lid cord (Coupe-rear spoiler)
R20	2	Black	B-3		Trunk room light
R21	2	Black	B-2		Rear speaker LH
R26	7	★	B-4		Rear combination light RH
R27	2	★	C-3		Trunk room light switch
R28	7	★	C-3		Rear combination light LH
R65	1	Black	B-2		Rear defogger (Ground)
R66	2	Black	B-3		High-mount stop light (Coupe-rear spoiler)
R76	2	★	C-3		License plate light LH
R77	2	★	C-4		License plate light RH
R96	2	Black	B-3	R19	Rear wiring harness
★: Non-colored					

REAR END WIRING HARNESS OF SEDAN AND COUPE



H6M0569A

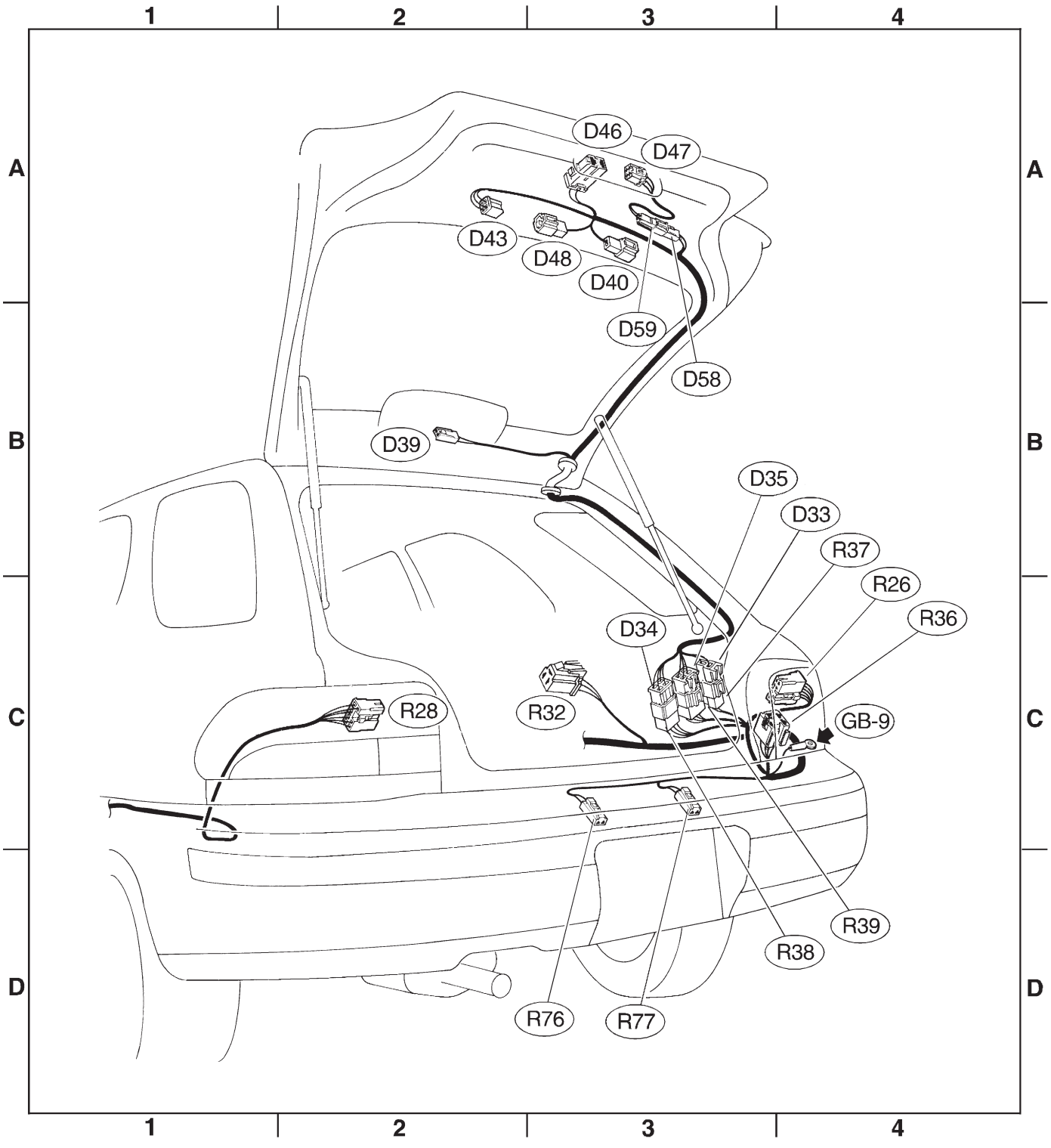
48. Rear End Wiring Harness of Wagon S903728

A: LOCATION S903728A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R26	7	★	C-4		Rear combination light RH
R28	7	★	C-2		Rear combination light LH
R32	3	★	C-3		Rear accessory power supply
R36	5	Black	C-4		Rear wiper relay
R37	2	★	C-3	D33	Rear gate cord
R38	4	★	C-3	D34	
R39	4	★	C-3	D35	
R76	2	★	C-3		License plate light LH
R77	2	★	C-3		License plate light RH
★: Non-colored					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
D33	2	★	C-3	R37	Rear wiring harness
D34	4	★	C-3	R38	
D35	4	★	C-3	R39	
D39	2	★	B-2		High-mount stop light
D40	1	★	B-3		Rear defogger (Power)
D43	4	★	A-3		Rear wiper motor
D46	2	Black	A-3		Rear gate latch switch
D47	4	★	A-3		Rear gate lock actuator
D48	1	★	A-3		Rear defogger (Ground)
D58	2	★	A-3	D59	Rear gate lock adapter cord
D59	2	★	A-3	D58	Rear gate cord
★: Non-colored					

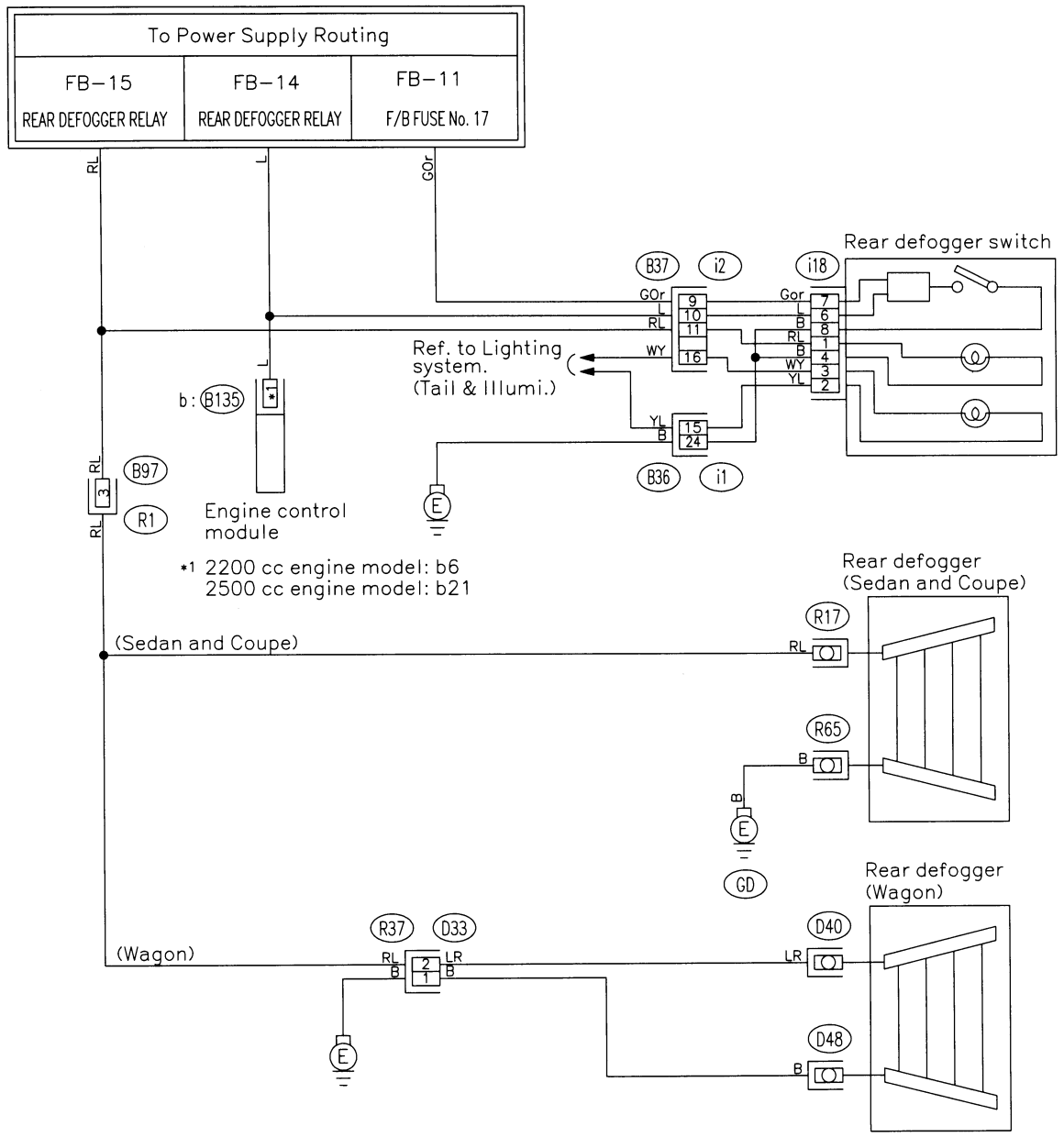
REAR END WIRING HARNESS OF WAGON

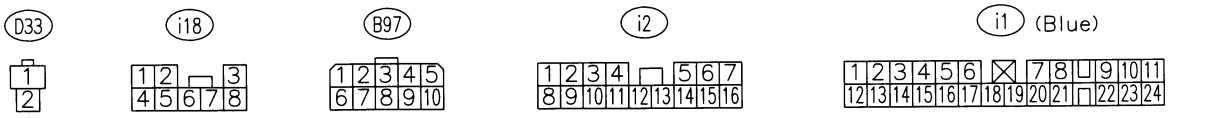


H6M0570A

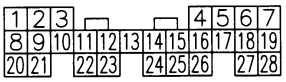
32. Rear Window Defogger System S903455

A: SCHEMATIC S903455A21





b : B135 2200 cc engine model: (Non−colored)
2500 cc engine model: (Black)



GU52−07

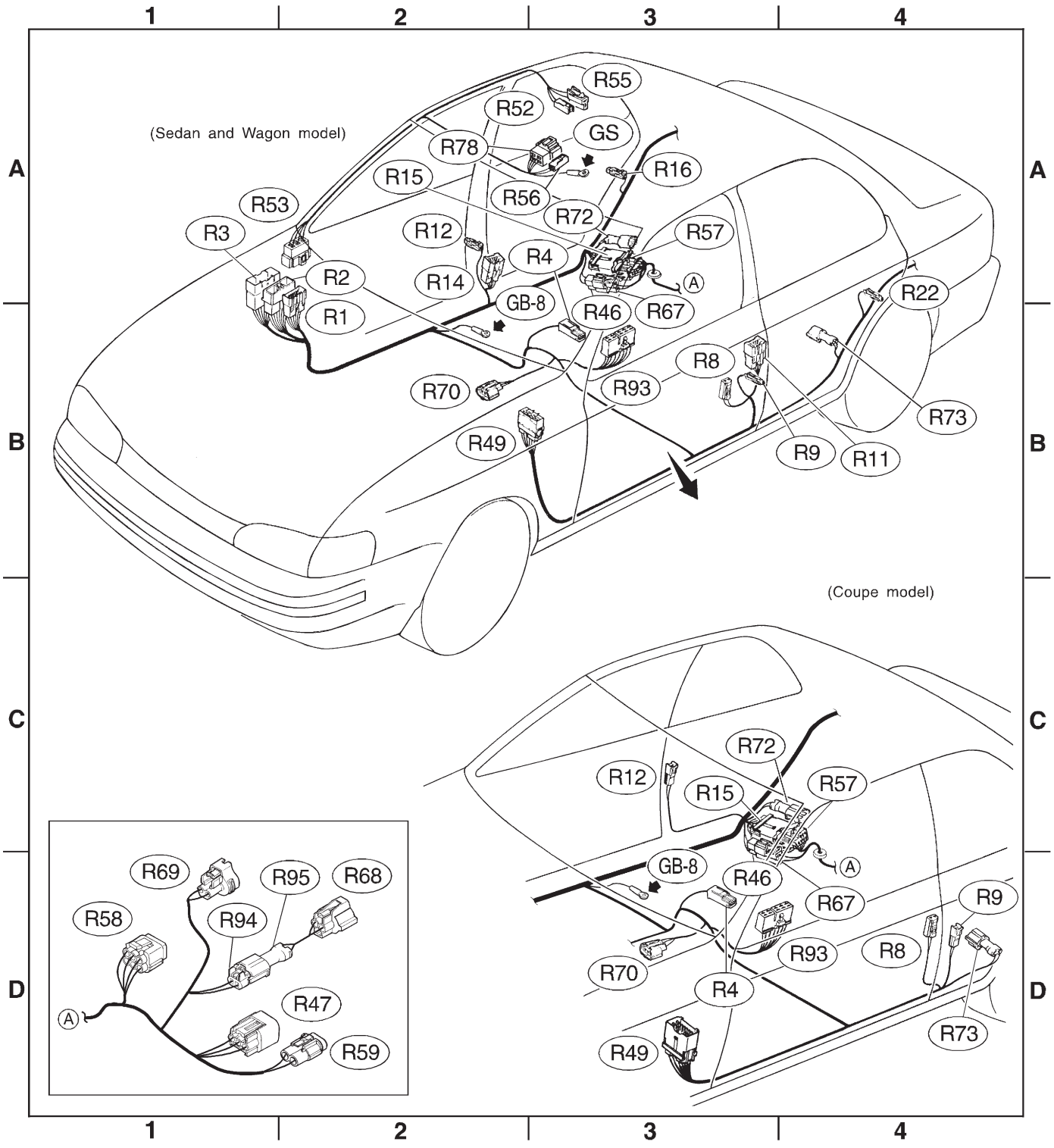
45. Rear Wiring Harness S903431

A: LOCATION S903431A13

Connector				Connecting to	
No.	Pole	Color	Area	No.	Name
R1	10	Blue	B-2	B97	Bulkhead wiring harness
R2	20	Black	B-2	B98	
R3	20	★	B-2	B99	
R4	1	Black	B-3		Parking brake switch
R8	2	★	B-3		Seat belt switch
R9	1	Brown	B-3		Front door switch LH (Sedan and Wagon model)
	2	★	D-4		Front door switch LH (Coupe model)
R11	8	★	B-3	D21	Rear door adapter cord LH
R12	1	Brown	B-2		Front door switch RH (Sedan and Wagon model)
	2	★	C-3		Front door switch RH (Coupe model)
R14	8	★	B-2	D27	Rear door adapter cord RH
R15	12	★	B-3	R57	Fuel tank cord
R16	1	Brown	A-3		Rear door switch RH
R22	1	Brown	B-4		Rear door switch LH
R46	2	★	B-3	R67	Fuel tank cord
R47	3	★	C-1		Fuel tank pressure sensor
R49	12	★	B-3	F55	Front wiring harness (With ABS model)
R52	2	★	A-3		Room light
R53	6	★	B-2	B45	Bulkhead wiring harness
R55	2	★	A-3		Sunroof control module and sunroof motor
R56	2	★	A-3		Spot light
R57	12	★	B-3	R15	Rear wiring harness
R58	6	★	C-1/D-1		Fuel gauge module & fuel pump assembly
R59	2	★	C-2/D-2		Fuel gauge sub module
R67	2	★	B-3	R46	Rear wiring harness
R68	2	Black	C-2/D-1		Pressure control solenoid valve
R69	2	★	C-1/D-1		Drain valve
R70	3	★	B-2		ABS G sensor
R72	2	★	B-3		Rear ABS sensor RH
R73	2	★	B-4		Rear ABS sensor LH
R78	4	★	A-3		Sunroof switch
R93	10	★	B-3		Remote control rearview mirror switch
R94	2	Gray	C-1	R95	Pressure control solenoid valve cord
R95	2	Gray	C-1	R94	Fuel tank cord

★: Non-colored

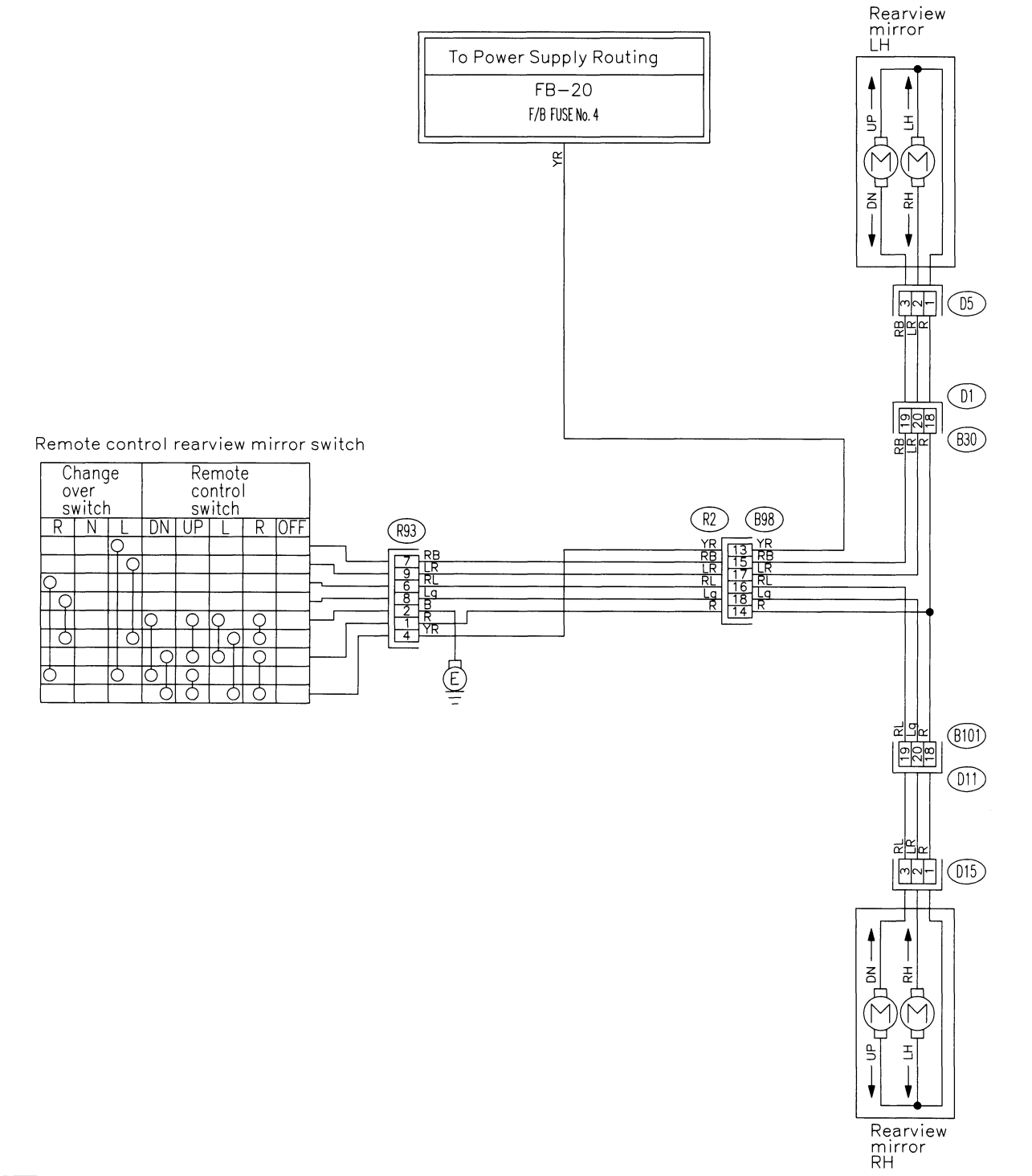
REAR WIRING HARNESS

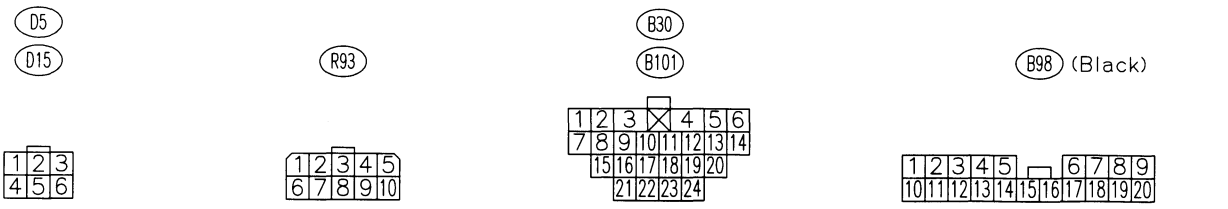


H6M0568A

33. Remote Controlled Rearview Mirror System S903459

A: SCHEMATIC S903459A21

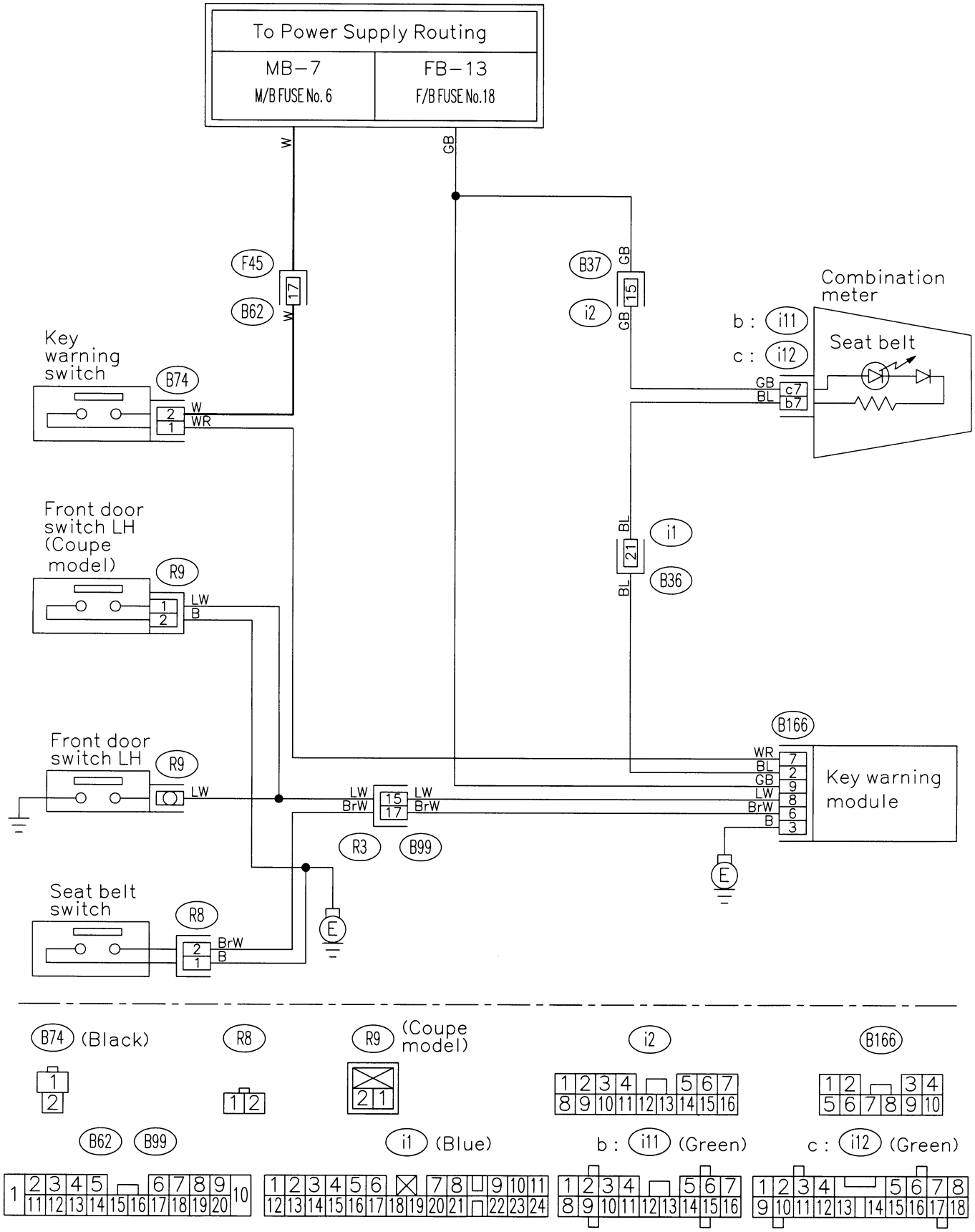




GU79−05

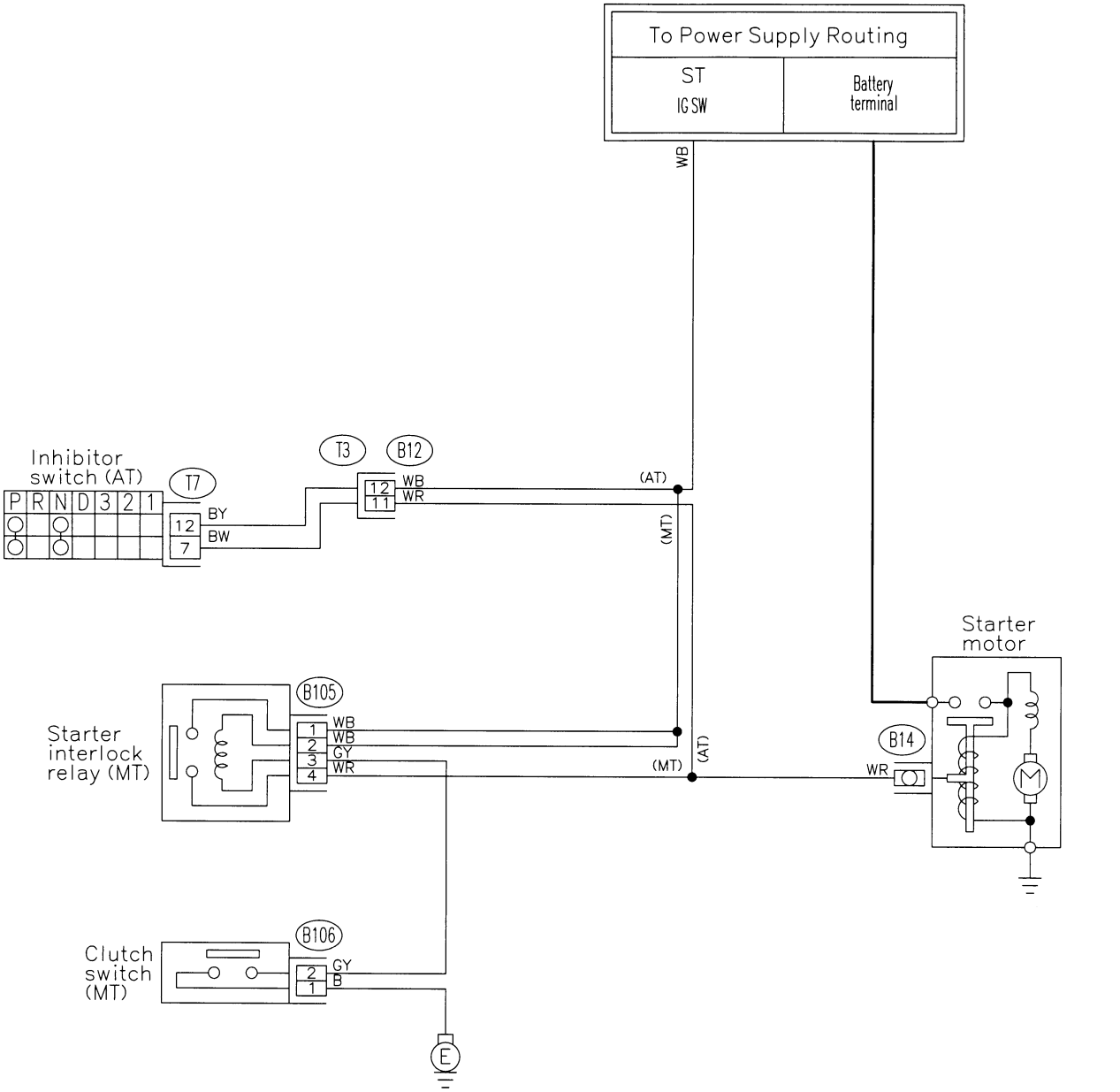
34. Seat Belt Warning and Key Warning System S903726

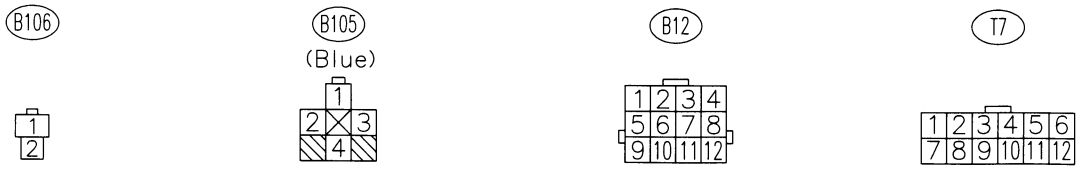
A: SCHEMATIC S903726A21



35. Starter System S903439

A: SCHEMATIC S903439A21

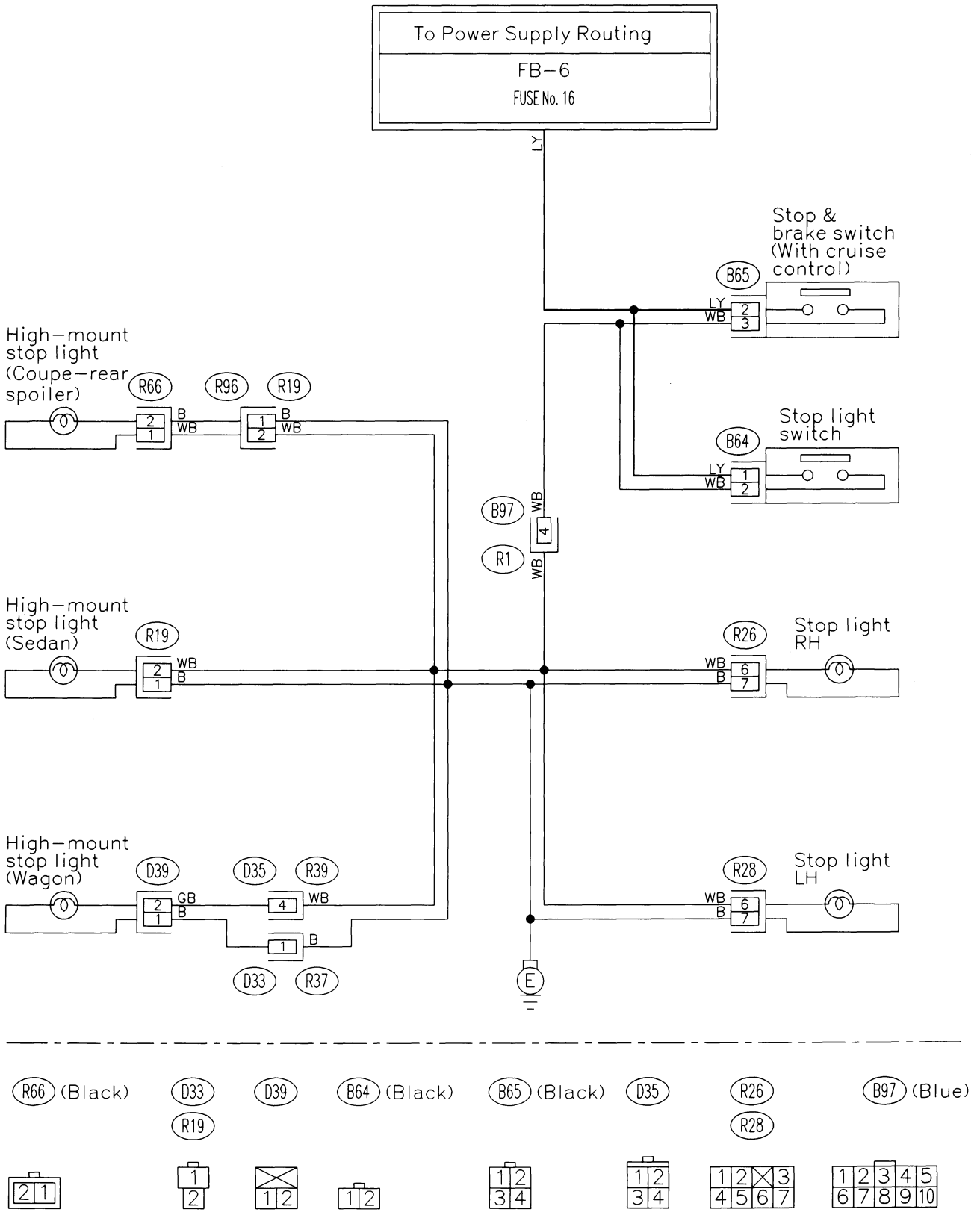




GU03–05

24. Stop Light System S903417

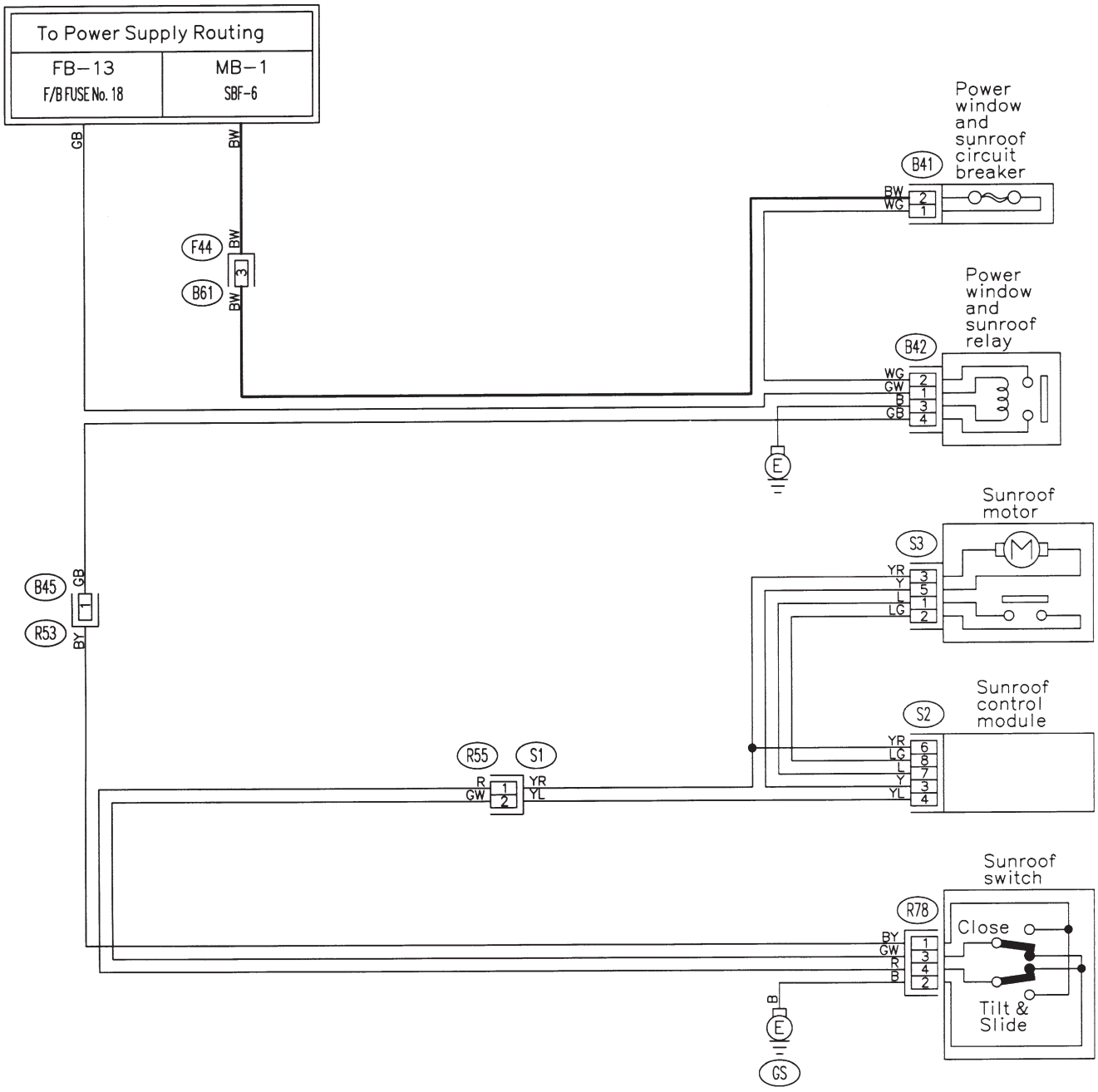
A: SCHEMATIC S903417A21

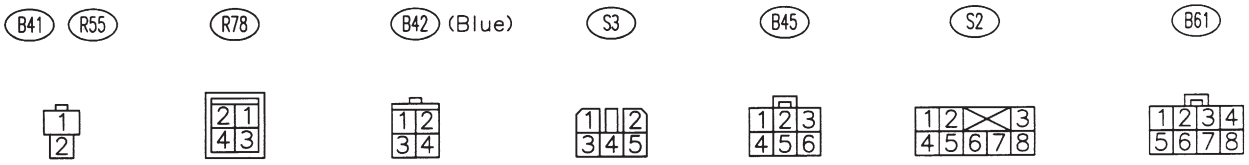


GU25−05

36. Sunroof System S903440

A: SCHEMATIC S903440A21

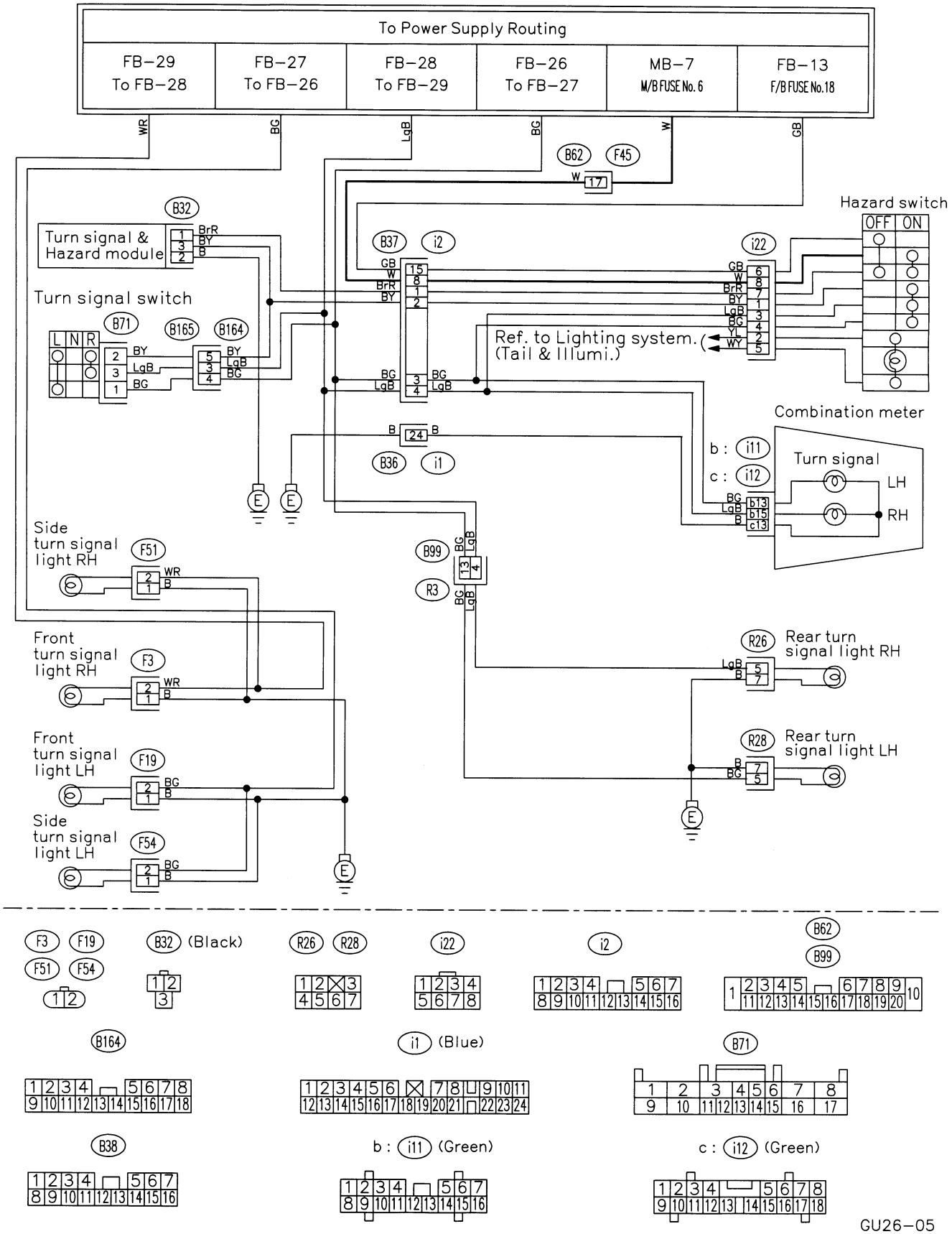




GU75−03

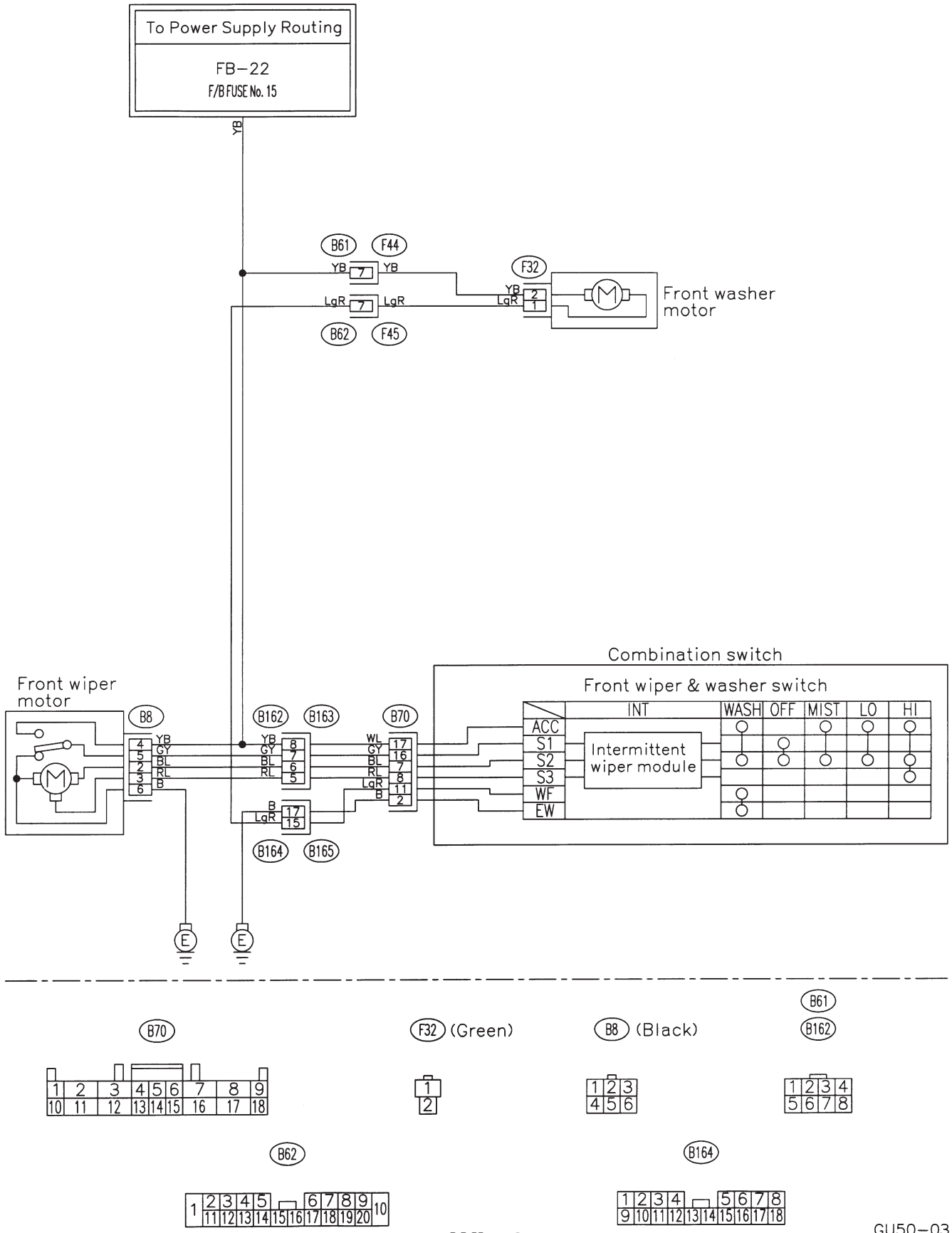
25. Turn Signal Light and Hazard Light System S903481

A: SCHEMATIC S903481A21



37. Wiper and Washer System (Front) S903442

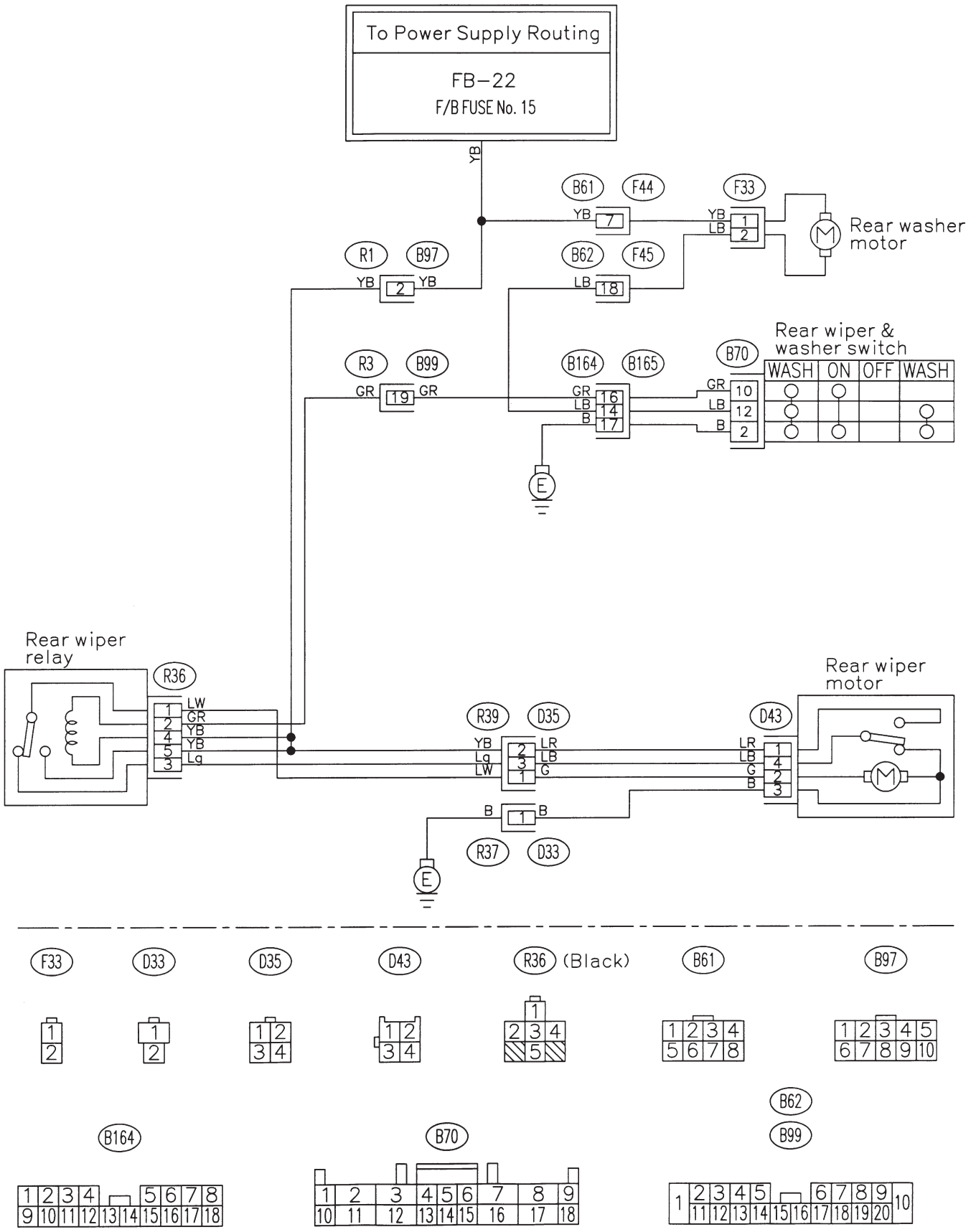
A: SCHEMATIC S903442A21



GU50−03

38. Wiper and Washer System (Rear) S903443

A: SCHEMATIC S903443A21



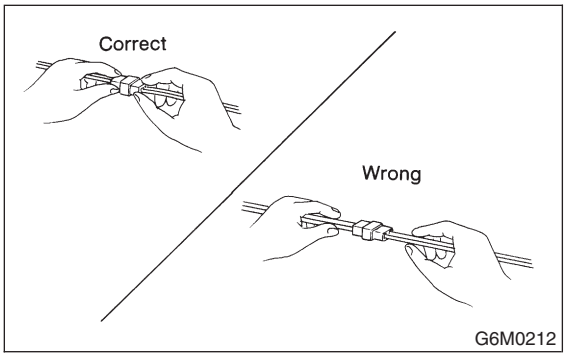
2. Working Precautions S903706

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

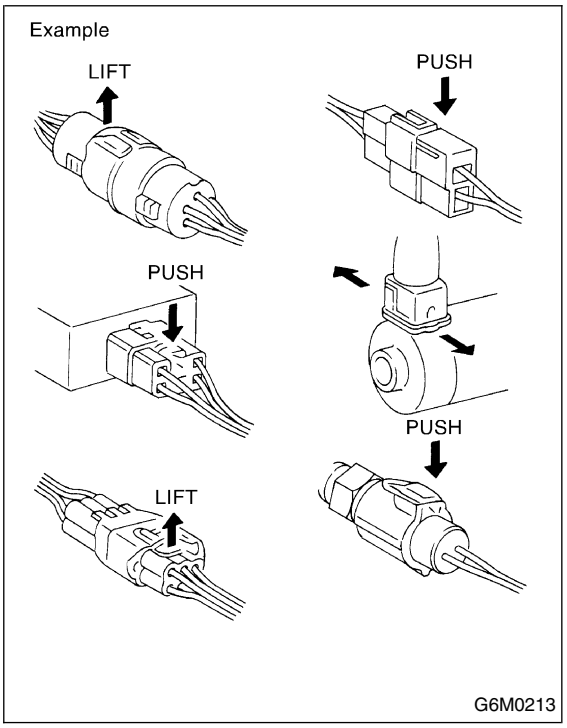
1) When working under a vehicle which is jacked-up, always be sure to use safety stands.
2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
3) Be sure the workshop is properly ventilated when running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

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

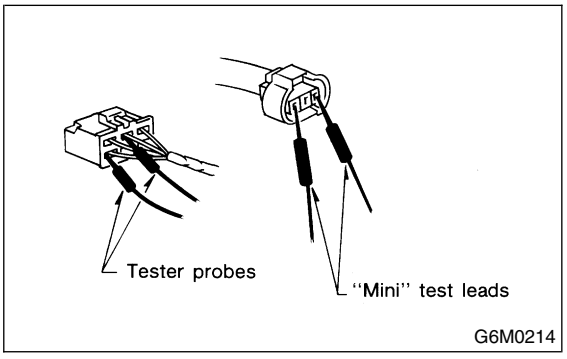
1) The battery cable must be disconnected from the battery's (–) terminal, and the ignition switch must be set to the OFF position, unless otherwise required by the diagnostics.
2) Securely fasten the wiring harness with clamps and slips so that the harness does not interfere with the body end parts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



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



6) When checking continuity between connector terminals, or measuring voltage across the terminal and ground, always contact tester probe(s) on terminals from the wiring connection side. If the probe is too thick to gain access to the terminal, use "mini" test leads.
To check 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.