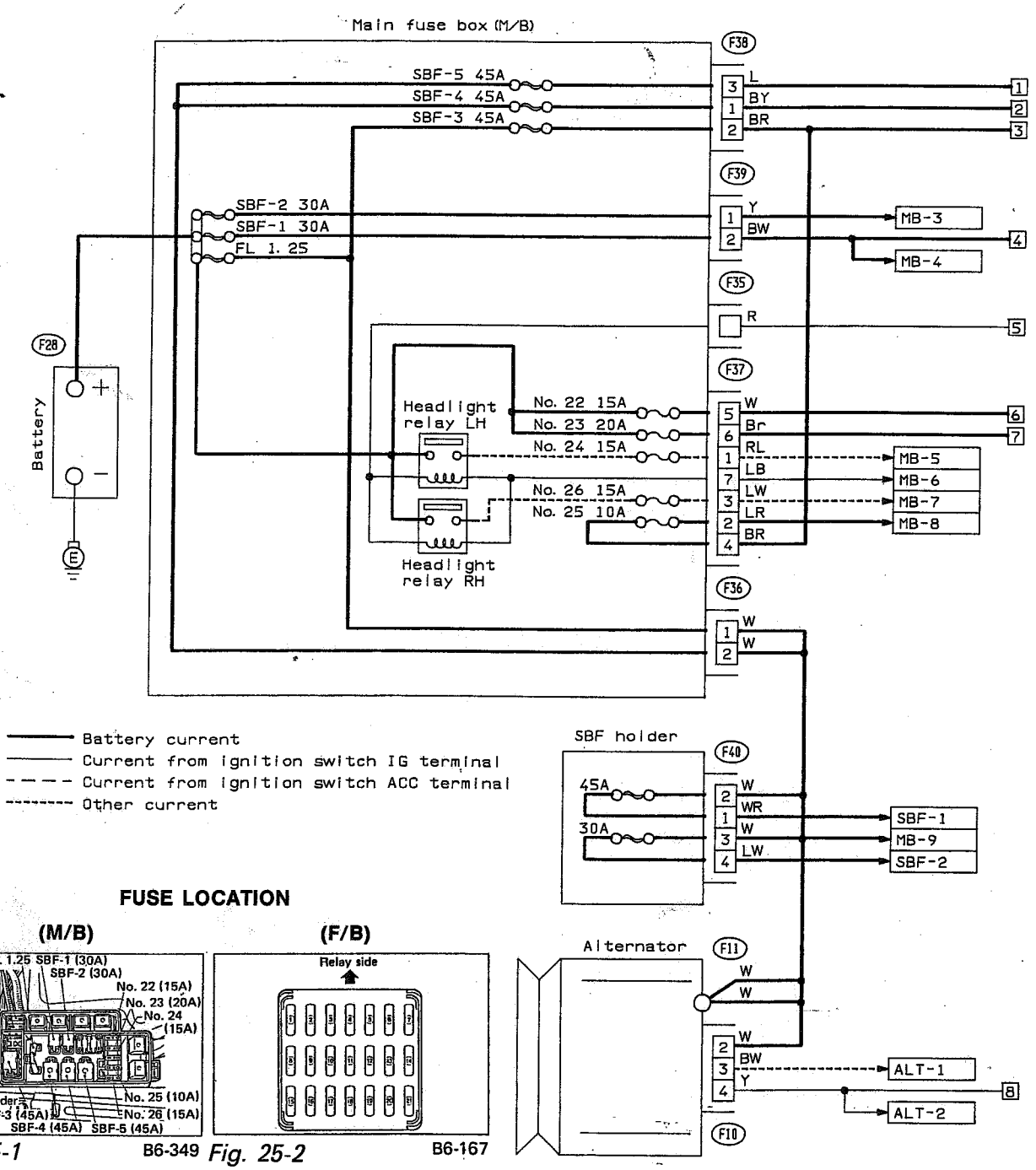
5. Wiring Diagram and Troubleshooting

1. POWER SUPPLY ROUTING



FUSE LOCATION

Fig. 25-1 B6-349

Fig. 25-2 B6-167

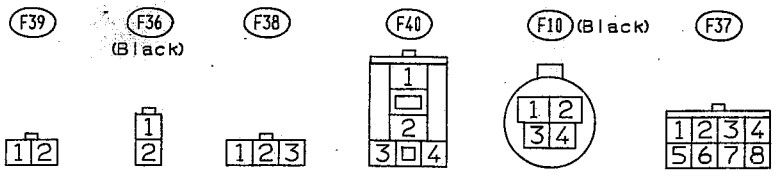
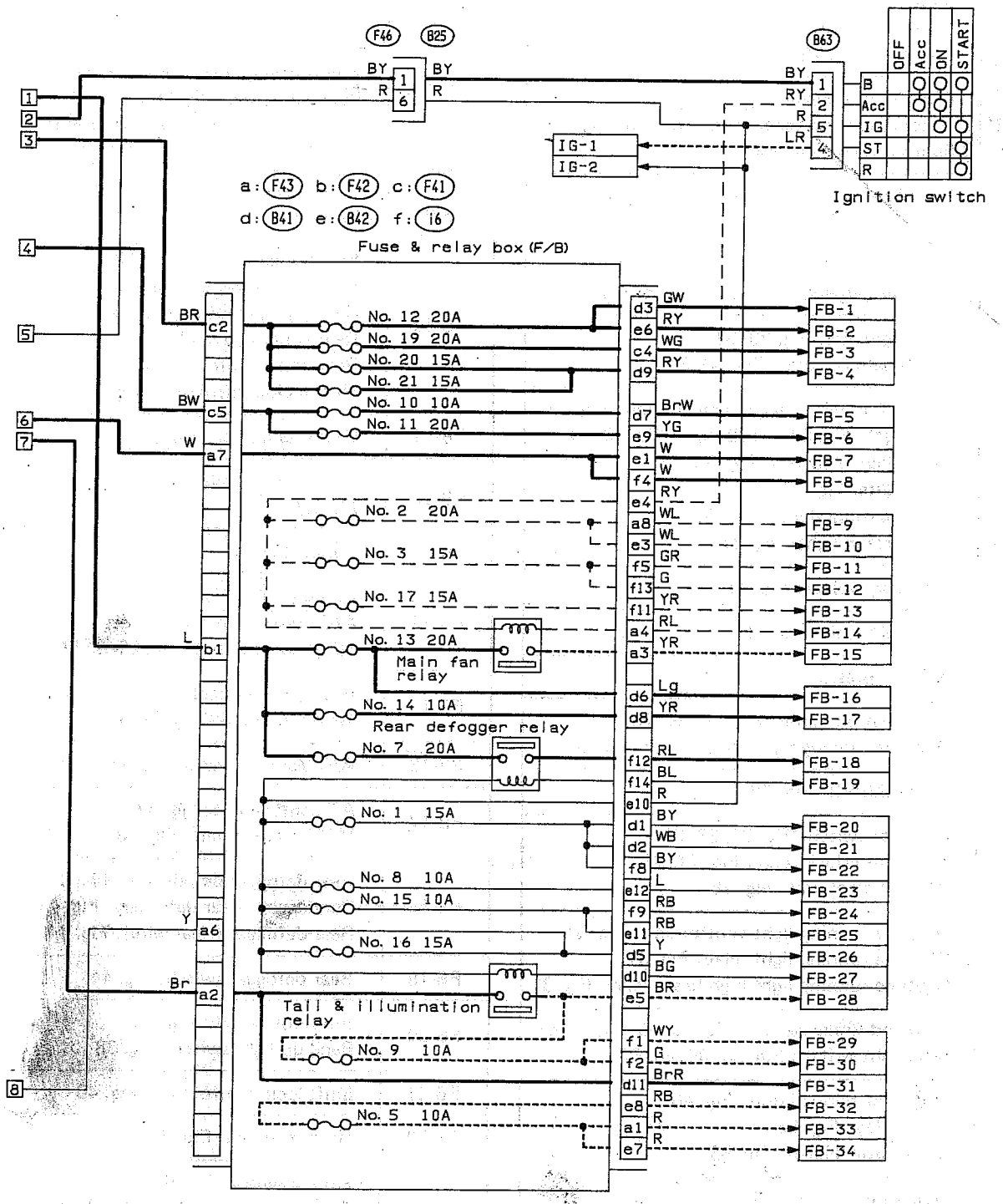
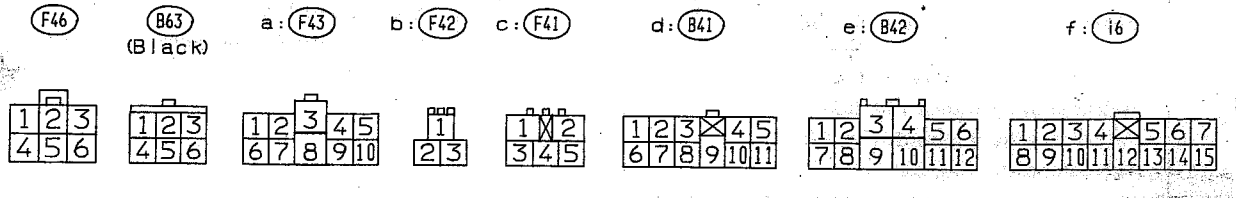


Fig. 25

BU01-01A


F46
B25
B63
BY
R
OFF
Acc
ON
START
B
Acc
IG
ST
R
IG-1
IG-2
Ignition switch
a: F43 b: F42 c: F41
d: B41 e: B42 f: i6
Fuse & relay box (F/B)
BR
BW
W
L
Y
Br
No. 12 20A
No. 19 20A
No. 20 15A
No. 21 15A
No. 10 10A
No. 11 20A
No. 2 20A
No. 3 15A
No. 17 15A
No. 13 20A
Main fan relay
No. 14 10A
Rear defogger relay
No. 7 20A
No. 1 15A
No. 8 10A
No. 15 10A
No. 16 15A
Tail & illumination relay
No. 9 10A
No. 5 10A
FB-1
FB-2
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
FB-31
FB-32
FB-33
FB-34


F46
B63
(Black)
a: F43
b: F42
c: F41
d: B41
e: B42
f: i6

BU01-01B

No.	Load
MB-3	Ignition relay: Fig. 27, 28 Fuel pump relay: Fig. 28 Injectors: Fig. 28
MB-4	P/W circuit breaker: Fig. 49 Automatic shoulder belt control unit: Fig. 59 Sunroof relay: Fig. 54
MB-5	Headlight LH: Fig. 30, 31
MB-6	Diode (Lighting): Fig. 30, 31 Lighting switch: Fig. 30 Daytime running light control unit: Fig. 31
MB-7	Head light RH: Fig. 30, 31 Combination meter: Fig. 30, 31
MB-8	Radio: Fig. 55 Height control unit: Fig. 58 Spot light: Fig. 54 F/B light: Fig. 33, 34 Room light (Wagon): Fig. 33, 34 Step lights: Fig. 33 Luggage room light: Fig. 33, 34 Trunk room light: Fig. 37
MB-9	A/C relay holder: Fig. 41
SBF-1	Hydraulic unit: Fig. 61
SBF-2	A/S compressor: Fig. 58
ALT-1	Combination meter: Fig. 26, 35, 45 Daytime running light control unit: Fig. 31
ALT-2	Diode (MPFI): Fig. 28
IG-1	Inhibitor switch: Fig. 27, 28, 31 Starter interlock relay: Fig. 27, 31 MPFI control unit: Fig. 28
IG-2	Daytime running light control unit: Fig. 31 Daytime running light relay: Fig. 31 Daytime running light high-beam relay: Fig. 31
FB-1	Stop and Brake switch: Fig. 35, 39, 40, 50, 61 Stop light switch: Fig. 35, 39, 40, 61
FB-2	Shift lock control unit: Fig. 40 Horn relay: Fig. 53 Condensor (Horn): Fig. 53
FB-3	Hydraulic unit: Fig. 61
FB-4	Blower motor relay: Fig. 41, 56
FB-5	A/S compressor relay: Fig. 58 A/S charge solenoid: Fig. 58 A/S discharge solenoid: Fig. 58 A/S solenoids: Fig. 58

No.	Load
FB-6	Front door lock switch LH: Fig. 51, 52
FB-7	Shift lock control unit: Fig. 40 Key warning switch: Fig. 40, 59, 61 Power antenna: Fig. 55 Automatic shoulder belt control unit: Fig. 59
FB-8	Hazard switch: Fig. 36
FB-9	Front washer motor: Fig. 42
FB-10	Front wiper motor: Fig. 42 Front wiper switch: Fig. 42 Rear washer motor: Fig. 43 Rear wiper relay: Fig. 43 Rear wiper motor: Fig. 43 Shift lock control unit: Fig. 40
FB-11	Cigarette lighter: Fig. 53
FB-12	Remote controlled rearview mirror switch: Fig. 57
FB-13	Radio: Fig. 55
FB-14	Diode (A/C): Fig. 41 A/C pressure switch: Fig. 41 MPFI control unit: Fig. 29
FB-15	A/C short connector: Fig. 29, 41 Main fan motor: Fig. 29, 41
FB-16	A/C Main fan relay: Fig. 41
FB-17	AT control unit: Fig. 39 MPFI control unit: Fig. 28
FB-18	Rear defogger switch: Fig. 44 Condensor (Rear defogger): Fig. 44 Rear defogger (Heat wire): Fig. 44
FB-19	Rear defogger switch: Fig. 44
FB-20	Inhibitor switch: Fig. 38 Back-up light switch: Fig. 38
FB-21	Shift lock control unit: Fig. 40
FB-22	Hazard switch: Fig. 36
FB-23	ABS-G sensor: Fig. 61 ABS control unit: Fig. 61 Main relay: Fig. 53 Cruise control main switch: Fig. 53

No.	Load
FB-24	Combination meter: Fig. 24, 28, 33, 34, 35, 39, 45, 46, 48, 54, 58, 59, 60, 61 Automatic shoulder belt control unit: Fig. 59 Height control switch: Fig. 58 Mode control panel: Fig. 56 Seat belt timer: 60
FB-25	P/W relay: Fig. 49 Check connector: Fig. 39, 58 Evaporation thermo switch: Fig. 41 Blower motor relay: Fig. 41, 56 Height control unit: Fig. 58 Sunroof relay: Fig. 54 Vanity mirror light: Fig. 54 FRESH/RECIRC actuator: Fig. 56
FB-26	AT control unit: Fig. 39 Fuel pump relay: Fig. 28 MPFI control unit: Fig. 28
FB-27	Lighting switch: Fig. 32
FB-28	Parking switch: Fig. 32
FB-29	Illumination lights: Fig. 32 Combination meter: Fig. 32
FB-30	Illumination control unit: Fig. 32 Illumination lights: Fig. 32
FB-31	Parking switch: Fig. 32
FB-32	Parking switch: Fig. 32
FB-33	Side marker lights: Fig. 32
FB-34	Rear combination lights (Tail light): Fig. 32 License plate lights: Fig. 32

2. CHARGING

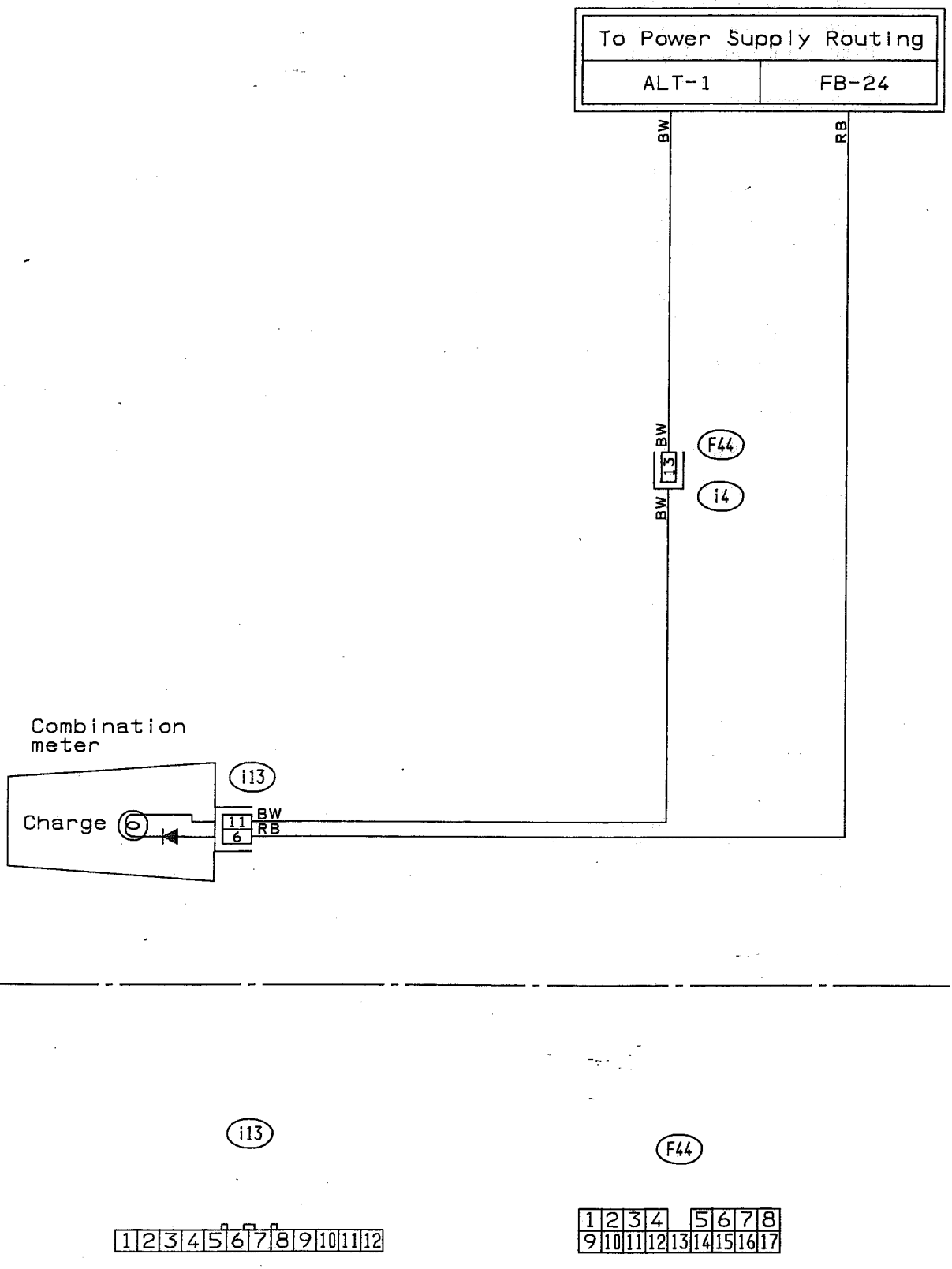
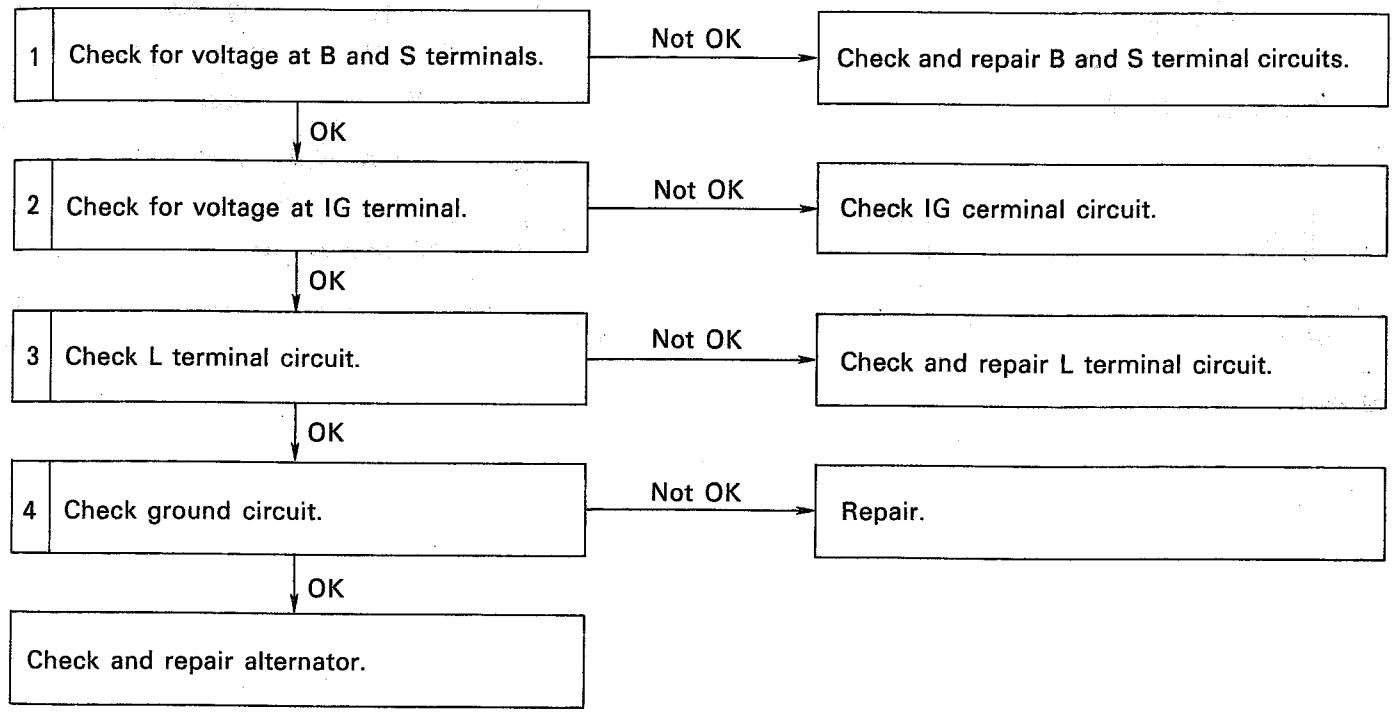


Fig. 26

BU02-01

Battery will not charge.

CONTENTS OF DIAGNOSIS	SYMPTOM
Supply voltage, ground, open/shorted circuit	Charging indicator comes on, or battery runs down.



1 Check for supply voltage at B and S terminals.

Disconnect B (F11) and S (F10) terminal connectors from alternator and measure voltage between these terminals and ground.

Specification: Battery voltage

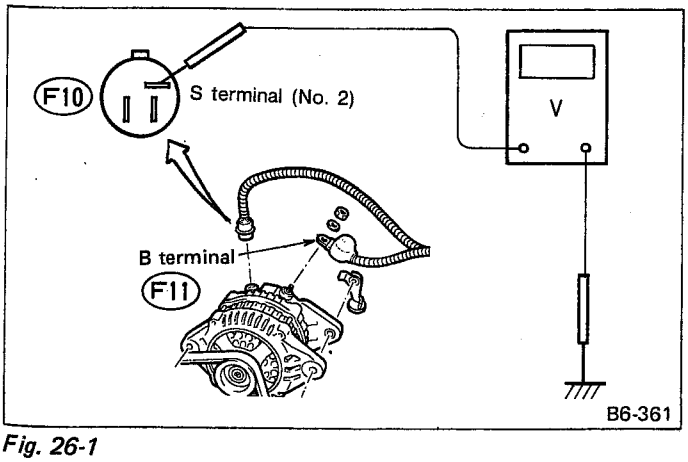


Fig. 26-1

2 Check for supply voltage at IG terminal.

Measure voltage between IG terminal (No. 4) and ground (with ignition switch ON).

Specification: Battery voltage

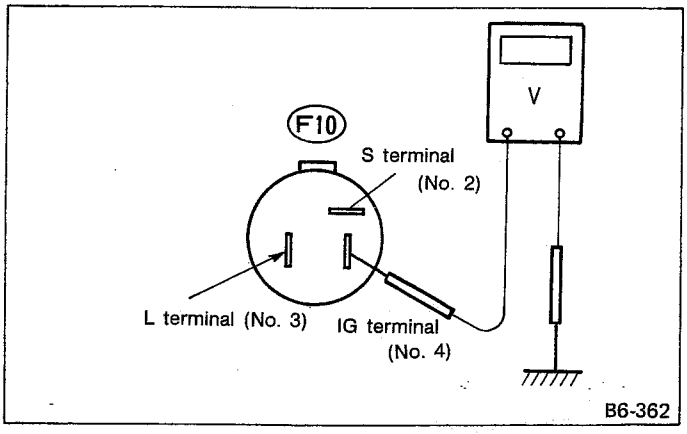


Fig. 26-2

3 Check L terminal circuit.

Check charge indicator light when L terminal (No. 3) is grounded
(ignition switch ON).

Specification: Charge indicator lamp comes on.

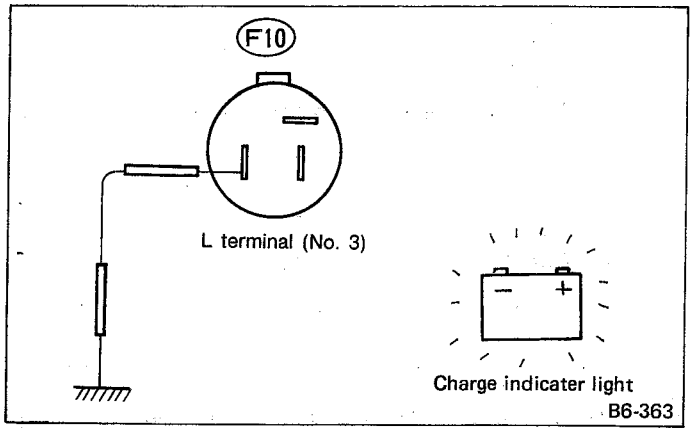


Fig. 26-3

4 Check grounding circuit.

Check continuity between alternator body and ground.

Specification: Continuity exists.

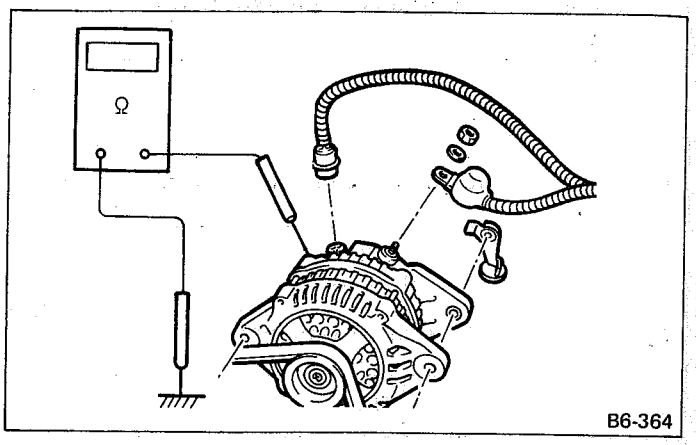
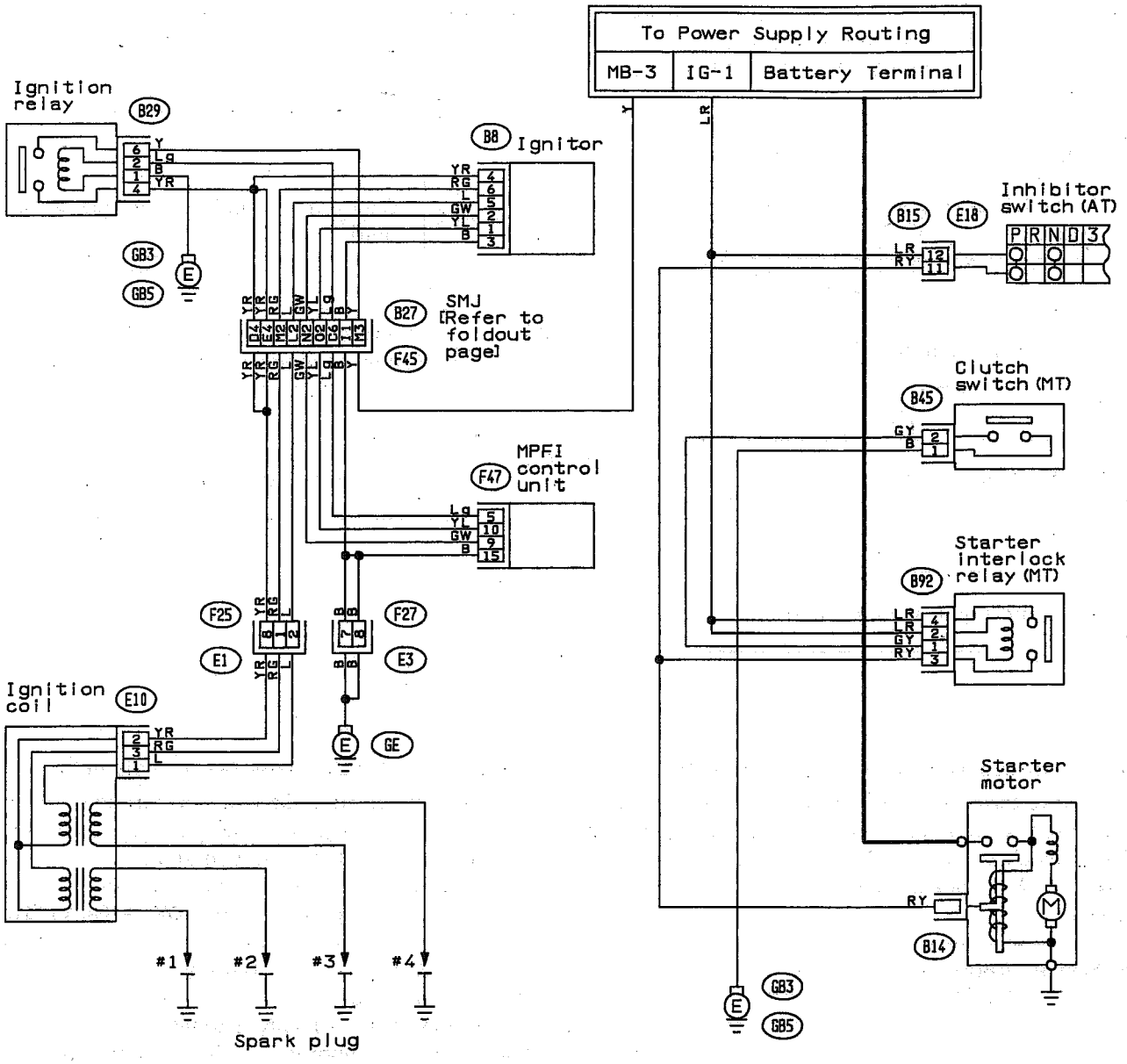


Fig. 26-4

3. STARTING



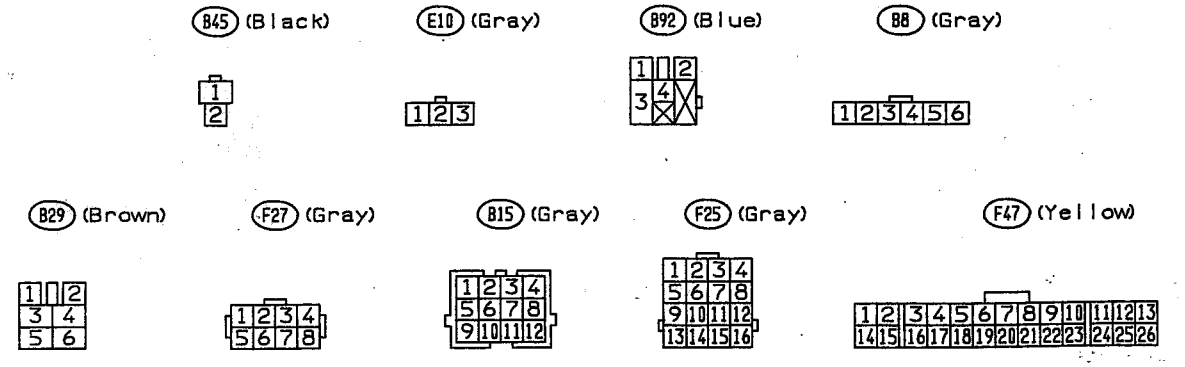


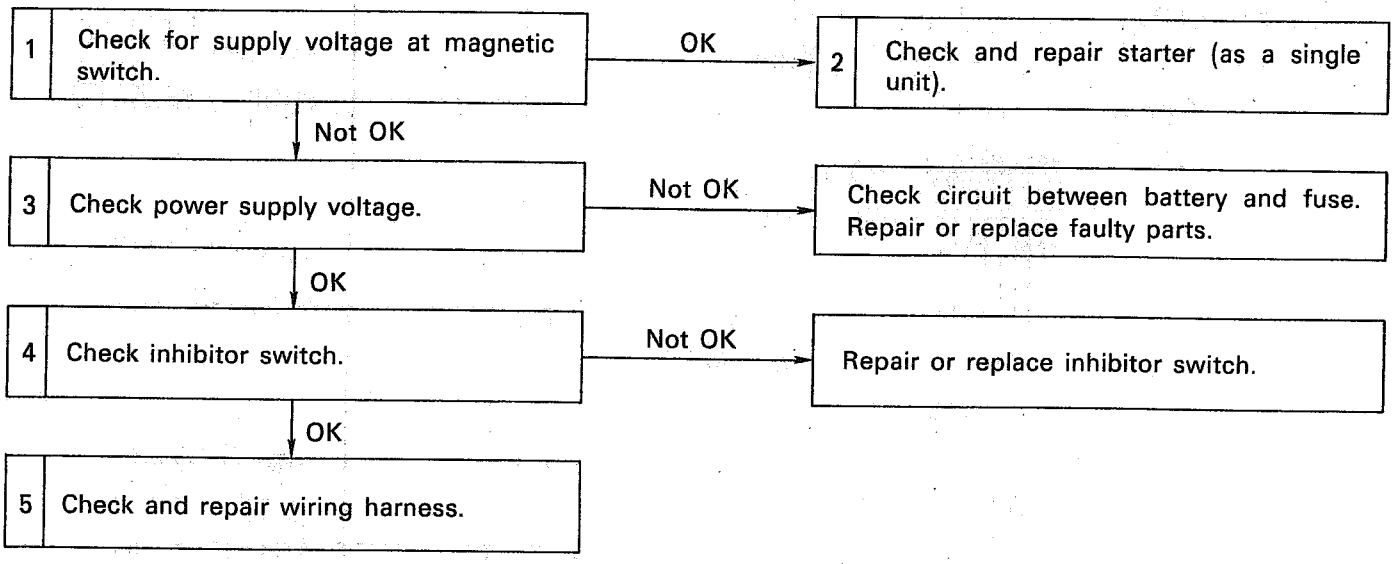
Fig. 27

BU03-01

Starter will not operate.

CONTENTS OF DIAGNOSIS	SYMPTOM
Power supply, inhibitor switch, harness and starter	Starter will not operate.

1. AT MODEL



1 Check for supply voltage at magnetic switch.

(1) Remove terminal (B14) from starter magnet switch.
(2) Measure voltage at terminal (on harness side) with ignition switch set to START. (Set select lever to "P" or "N" on AT models; depress clutch pedal on MT models.)

Specification: Battery voltage

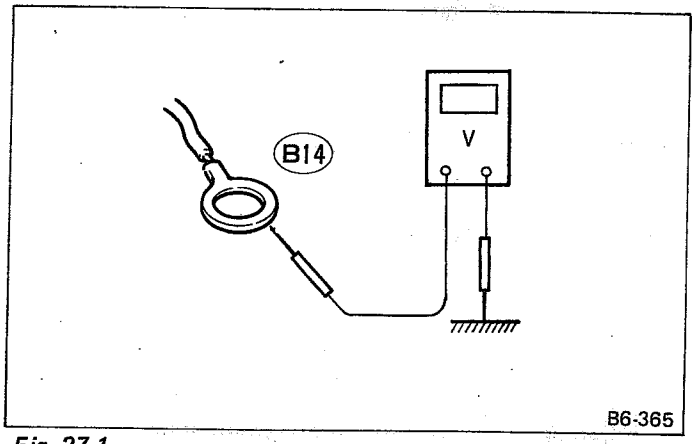


Fig. 27-1

2 Check and repair starter (as a single unit).

(1) Remove starter. Connect B terminal to battery positive terminal and S terminal to its ground terminal, as shown, to check starter operation.
Starter operates. → OK → Check battery.
Starter does not operate. → Not OK → Go to (2).
(2) Check if pinion smoothly spins with fingertip. Connect M terminal to battery positive terminal to check starter operation.
Starter operates. → Faulty magnetic switch
Starter does not operate → Faulty starter motor

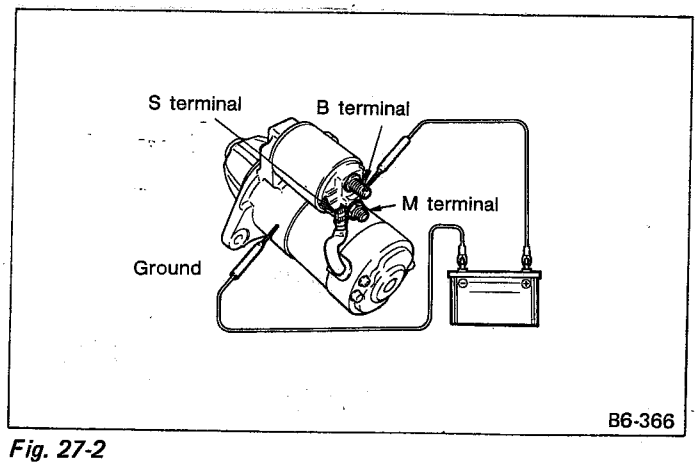


Fig. 27-2

3 Check power supply voltage.

Check for voltage at SBF-4 (ignition switch ON), and fuse for continuity.

Specification: Battery voltage at SBF-4

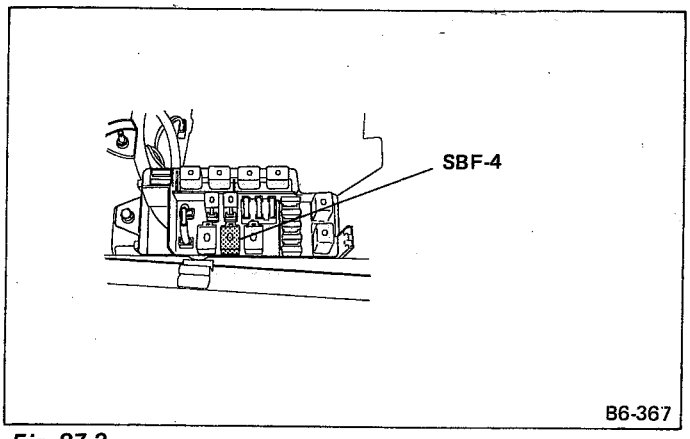


Fig. 27-3

4 Check inhibitor switch.

Disconnect inhibitor switch connector (E18). While moving select lever from one position to another, check for continuity between terminals.

Specification: Continuity exists. (select lever "P" and "N")

Continuity does not exist. (select lever "R", "D", "3", "2" and "1")

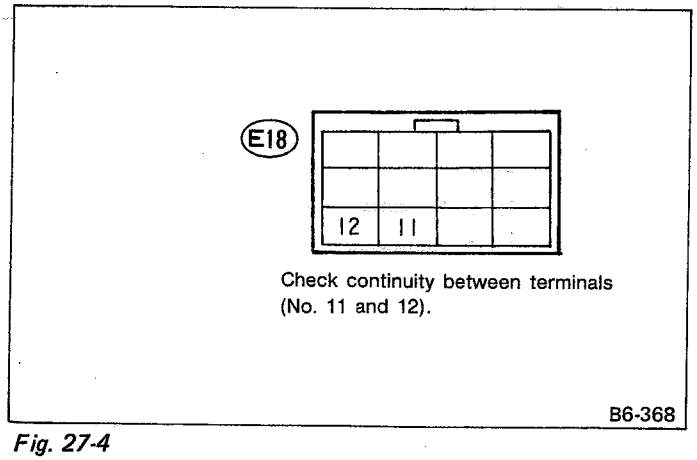


Fig. 27-4

5 Check wiring harnesses.

Check for open or shorted circuit in the following wiring and/or harnesses:

(1) Battery to M/B
(2) M/B to ignition switch
(3) Ignition switch to inhibitor switch, and inhibitor switch to starter magnetic switch
(4) Starter to ground

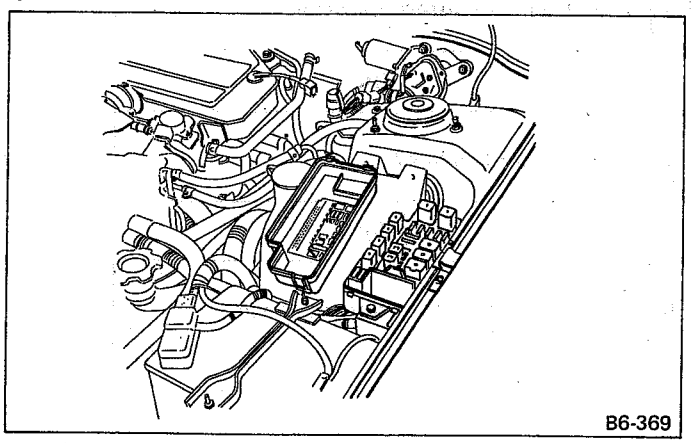
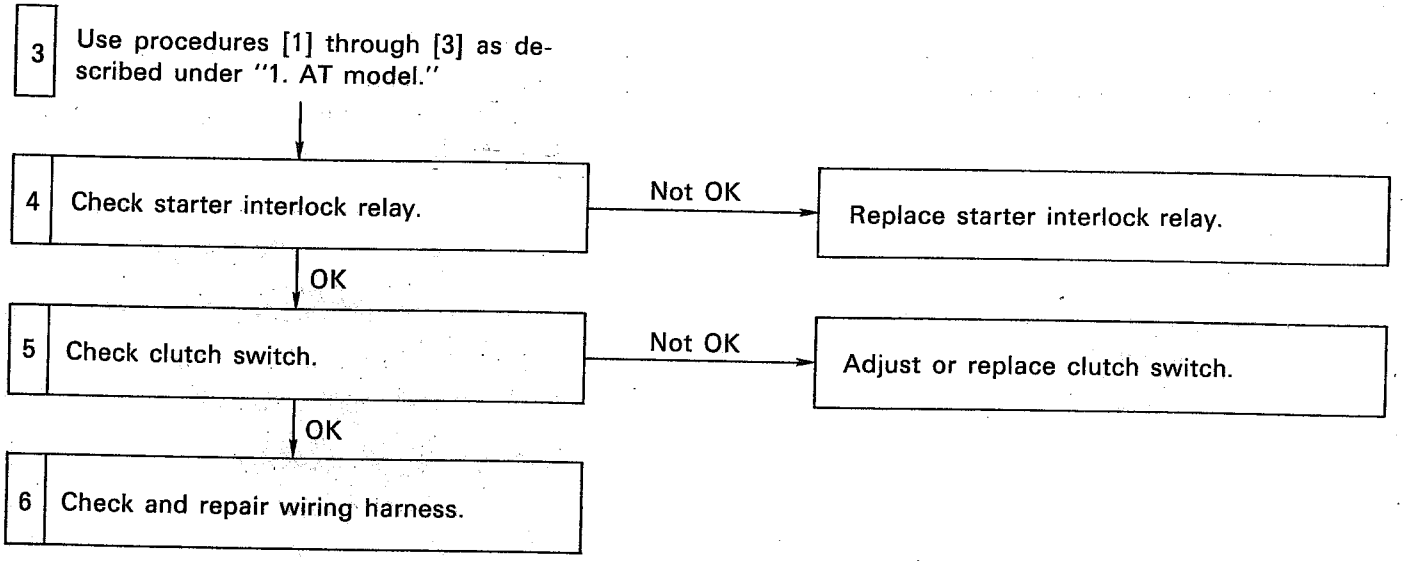


Fig. 27-5

2. MT MODEL



4 Check starter interlock relay.

Check continuity between terminals (3) and (4) when terminal (1) is connected to battery positive terminal and terminal (2) to ground terminal.

Specification: Continuity exists.

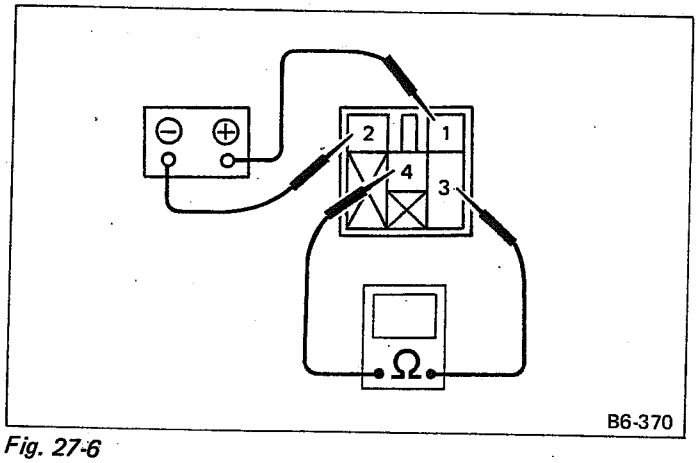


Fig. 27-6

5 Check clutch switch.

(1) Disconnect clutch switch connector from body harness connector.

(2) Ensure that continuity exists between clutch connector terminals when clutch pedal is depressed.

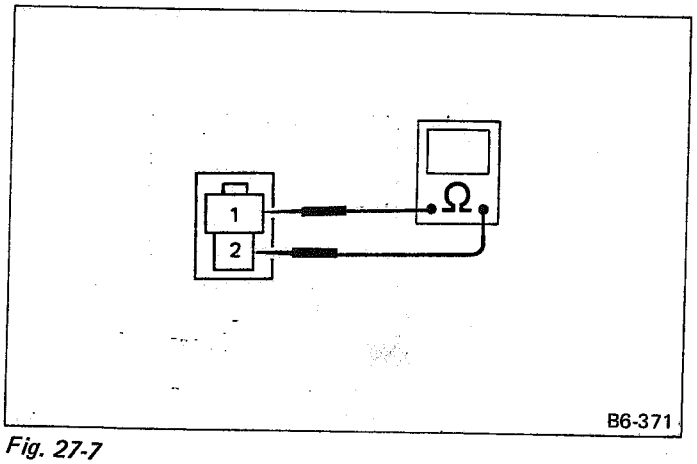


Fig. 27-7

6 Check wiring harnesses.

Check the following wiring harnesses for open or short circuits.

(1) Battery to M/B
(2) M/B to ignition switch
(3) Ignition switch to starter interlock relay, interlock relay to clutch switch, and clutch switch to ground
(4) Starter to ground

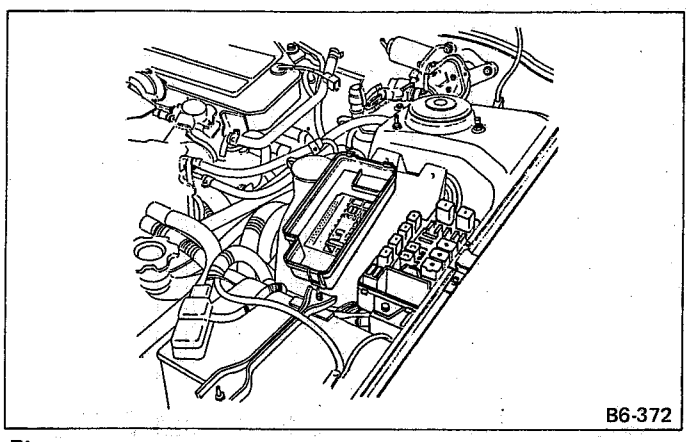


Fig. 27-8

4. ENGINE ELECTRICAL (MPFI)

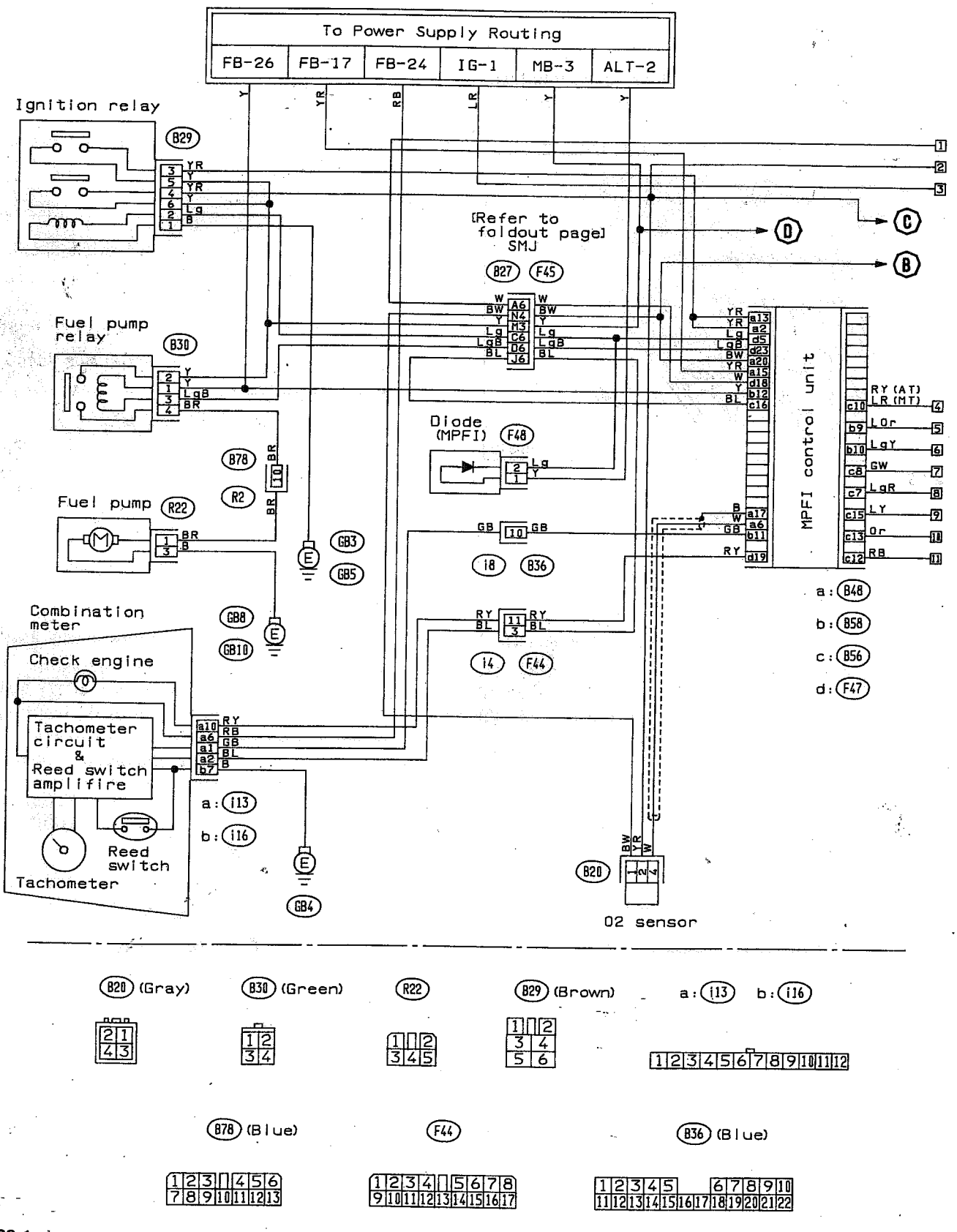
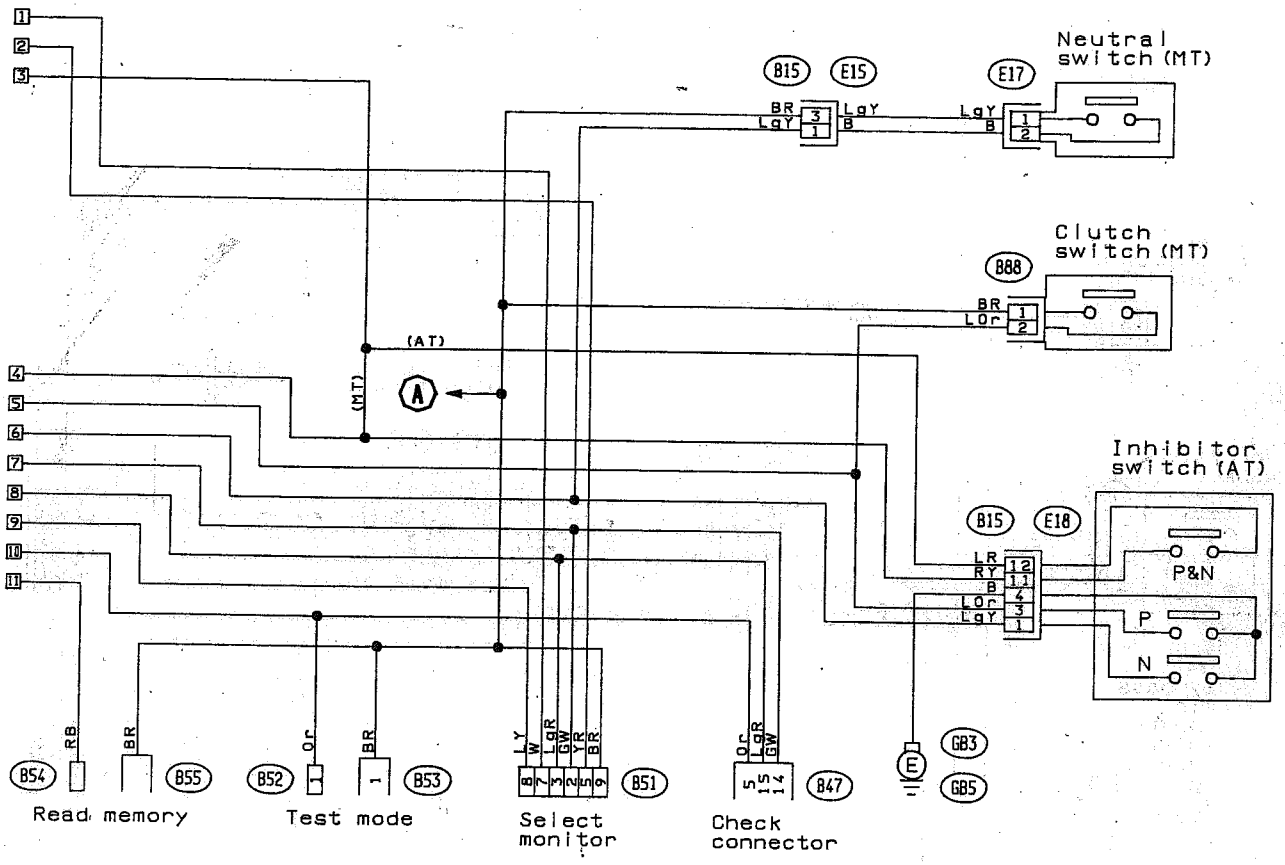
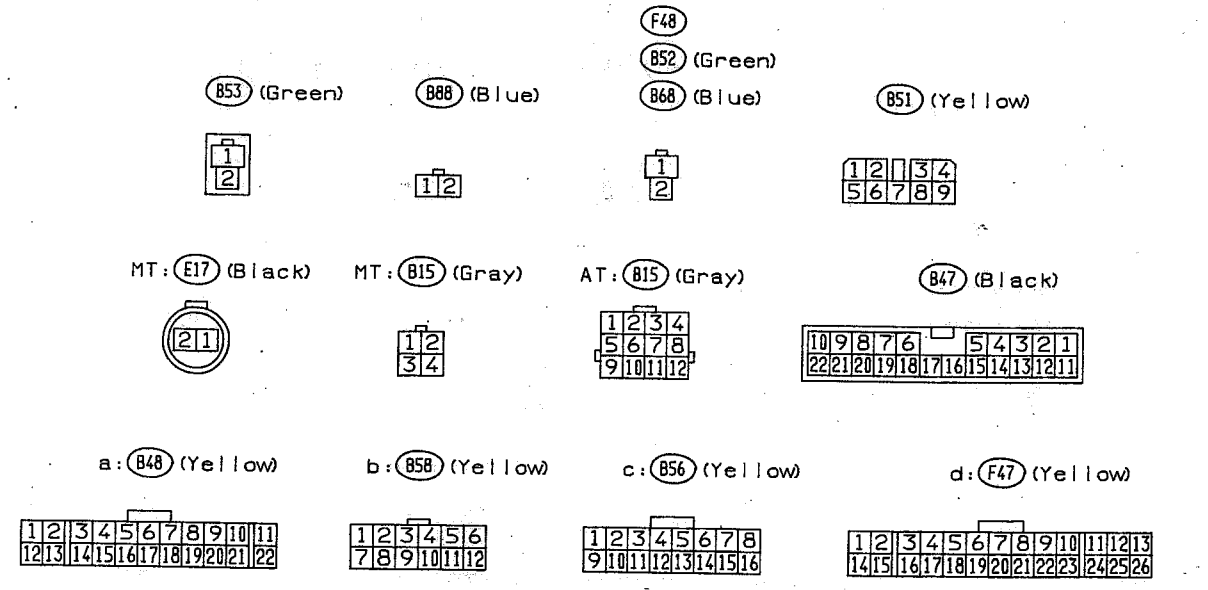


Fig. 28-1

BU10-01A


Neutral switch (MT)
Clutch switch (MT)
Inhibitor switch (AT)
(AT)
(MT)
P&N
P
N
Read memory
Test mode
Select monitor
Check connector


B53 (Green)
B88 (Blue)
F48
B52 (Green)
B68 (Blue)
B51 (Yellow)
MT: E17 (Black)
MT: B15 (Gray)
AT: B15 (Gray)
B47 (Black)
a: B48 (Yellow)
b: B58 (Yellow)
c: B56 (Yellow)
d: F47 (Yellow)

BU10-01B

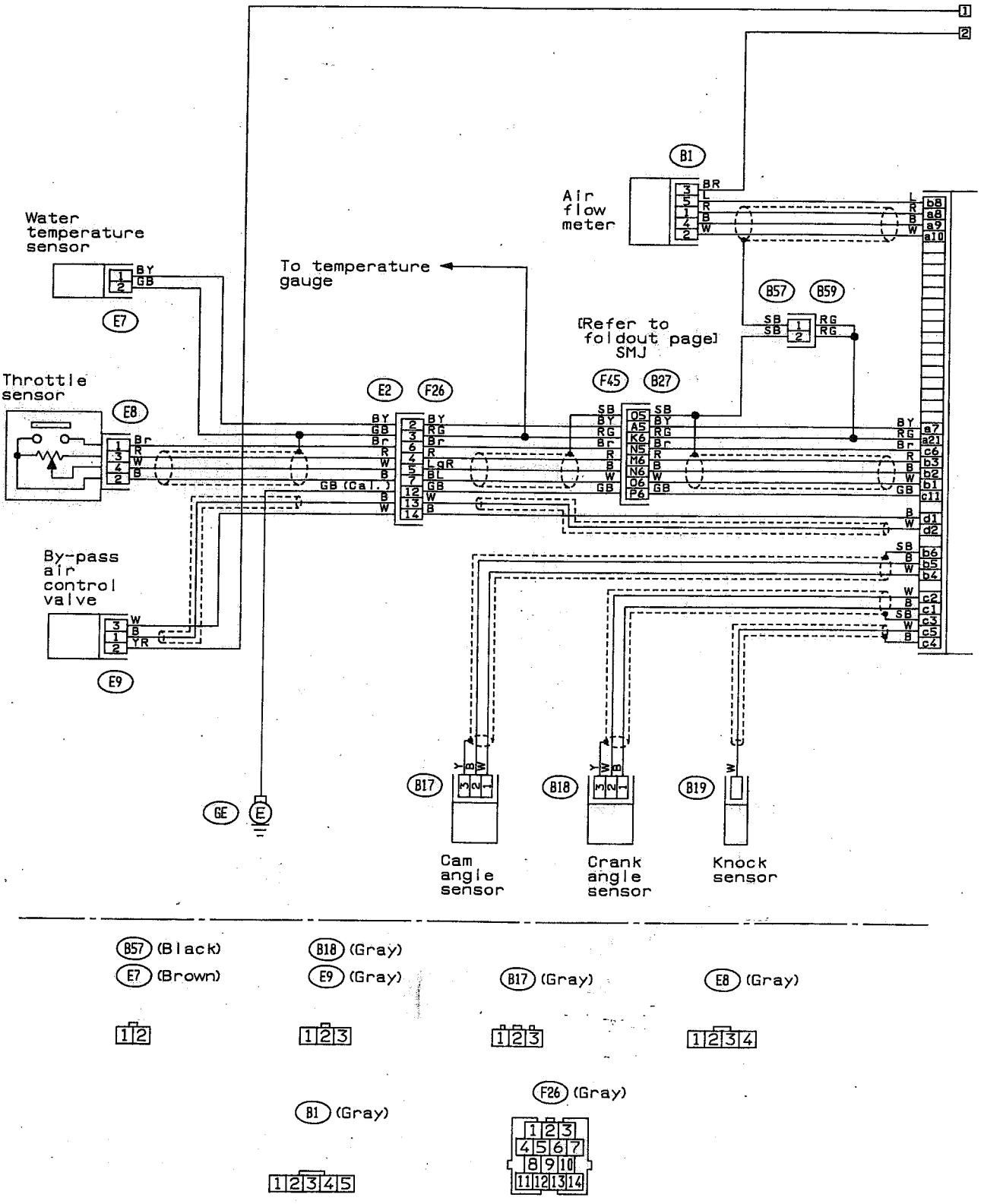
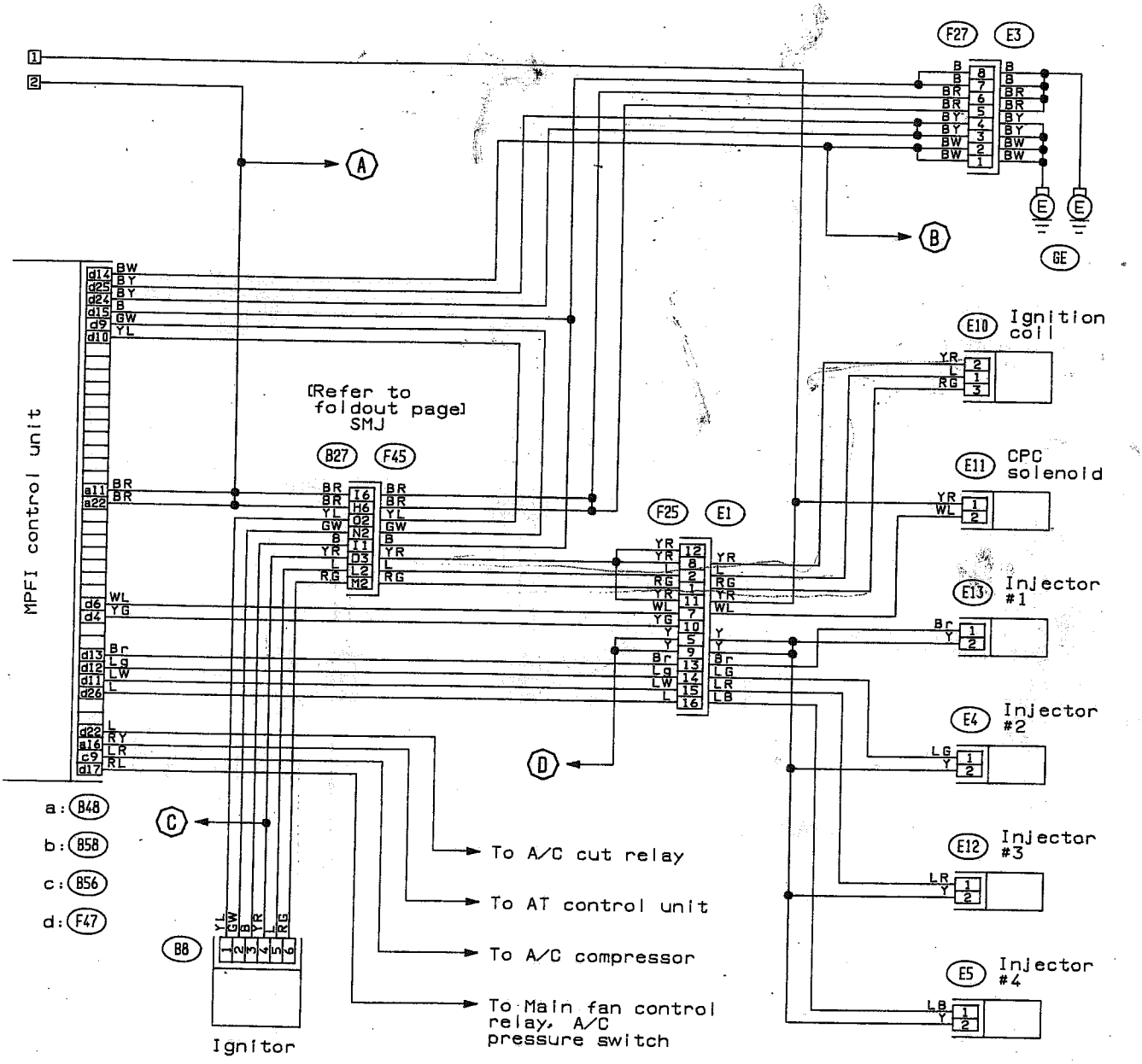
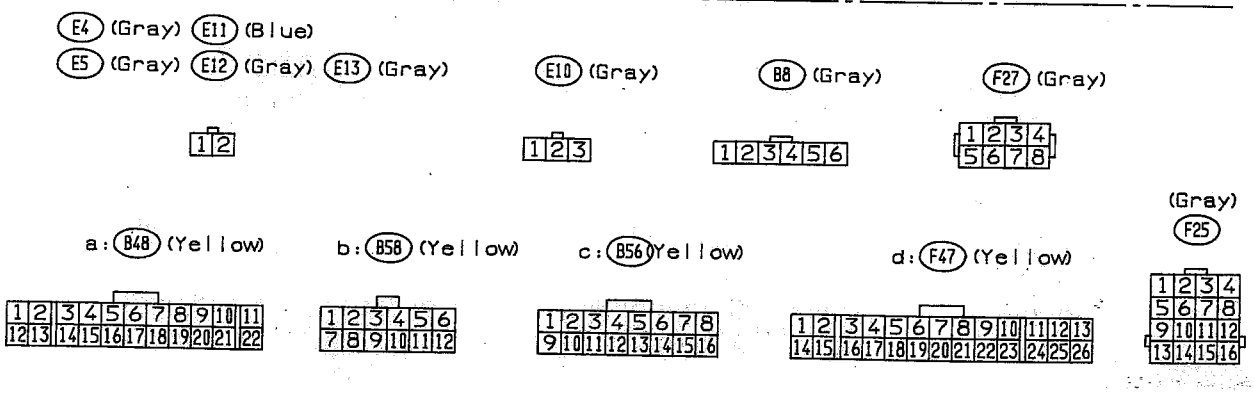


Fig. 28-2

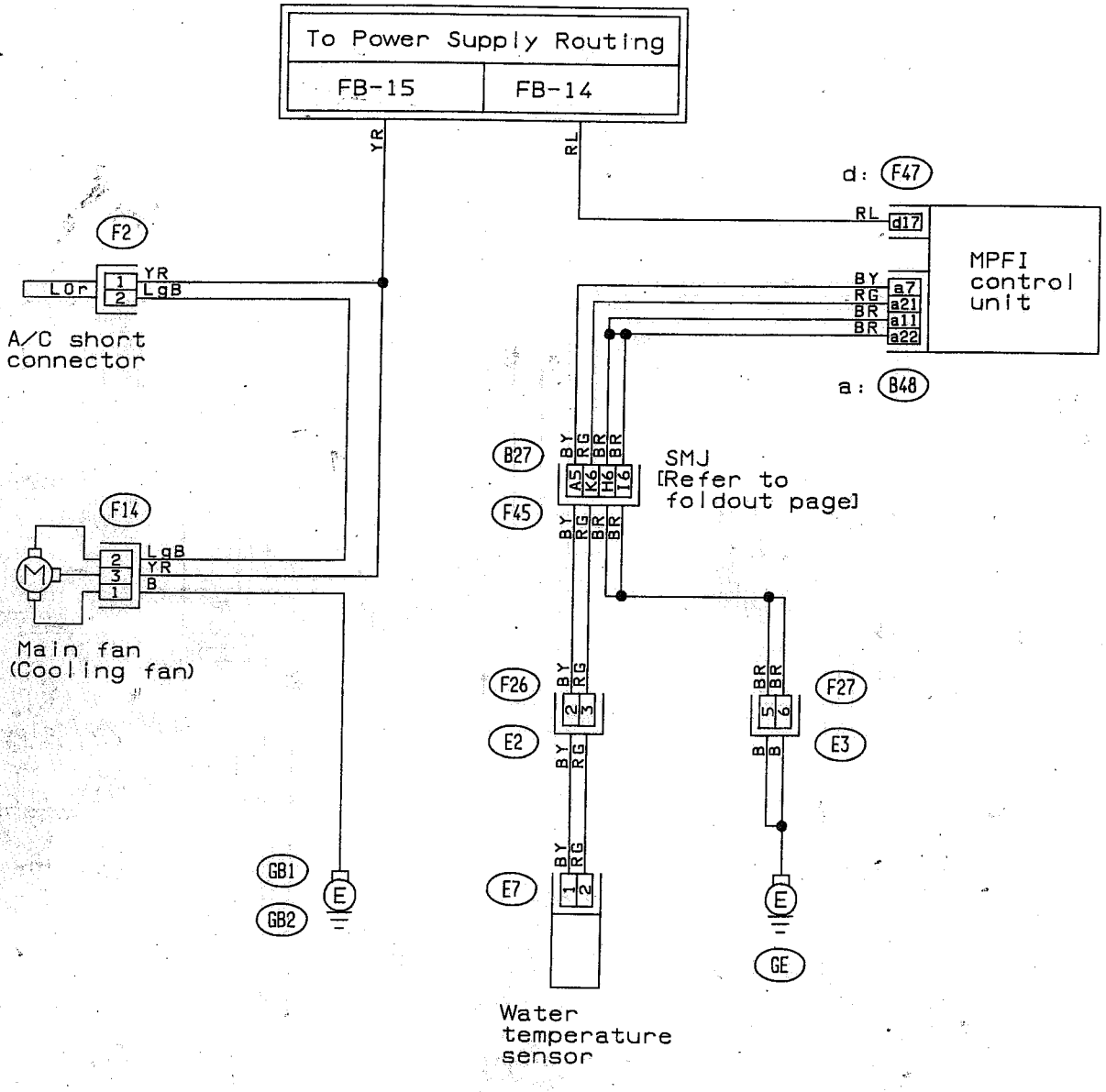
BU10-01C


MPFI control unit
[Refer to foldout page] SMJ
B27
F45
F25
E1
F27
E3
A
B
C
D
GE
E10 Ignition coil
E11 CPC solenoid
E13 Injector #1
E4 Injector #2
E12 Injector #3
E5 Injector #4
a: B48
b: B58
c: B56
d: F47
B8
Ignitor
To A/C cut relay
To AT control unit
To A/C compressor
To Main fan control relay, A/C pressure switch


E4 (Gray) E11 (Blue)
E5 (Gray) E12 (Gray) E13 (Gray)
E10 (Gray)
B8 (Gray)
F27 (Gray)
a: B48 (Yellow)
b: B58 (Yellow)
c: B56 (Yellow)
d: F47 (Yellow)
(Gray) F25

BU10-01D

5. COOLING FAN



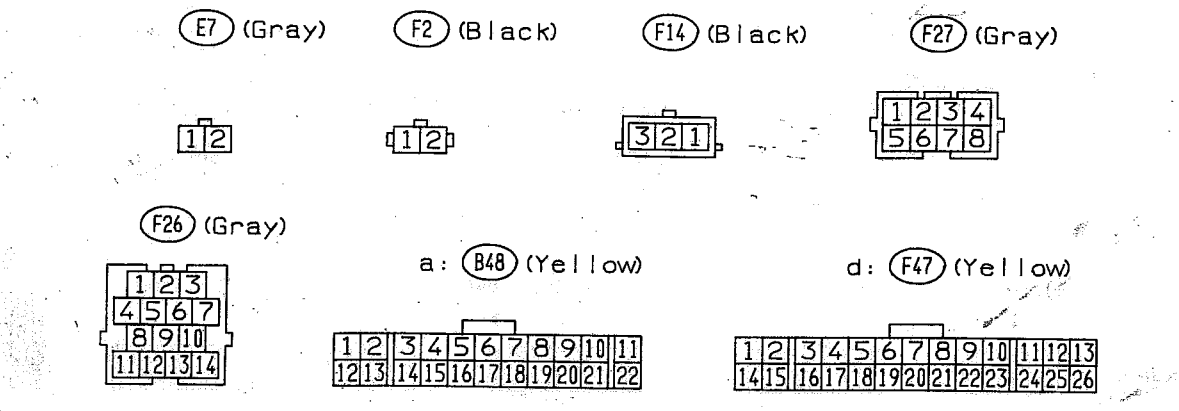
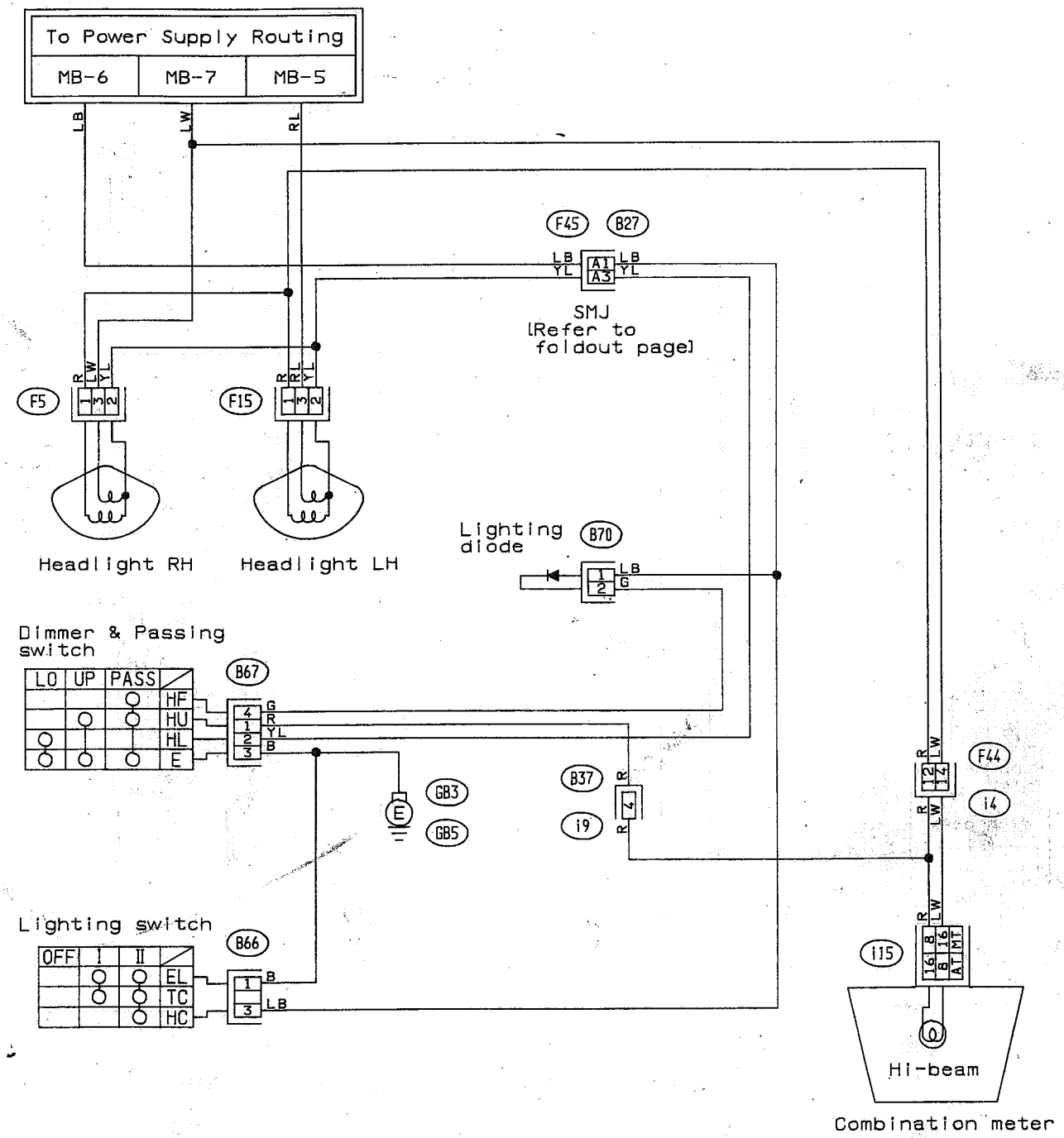


Fig. 29

BU14-01

6-1. LIGHTING (HEADLIGHTS)

U.S MODEL



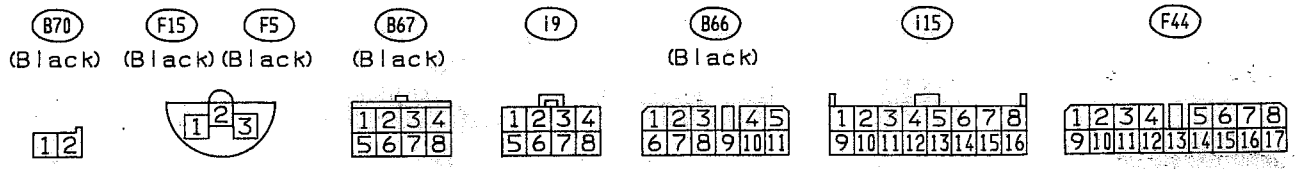


Fig. 30

BU20-01

CANADA MODEL

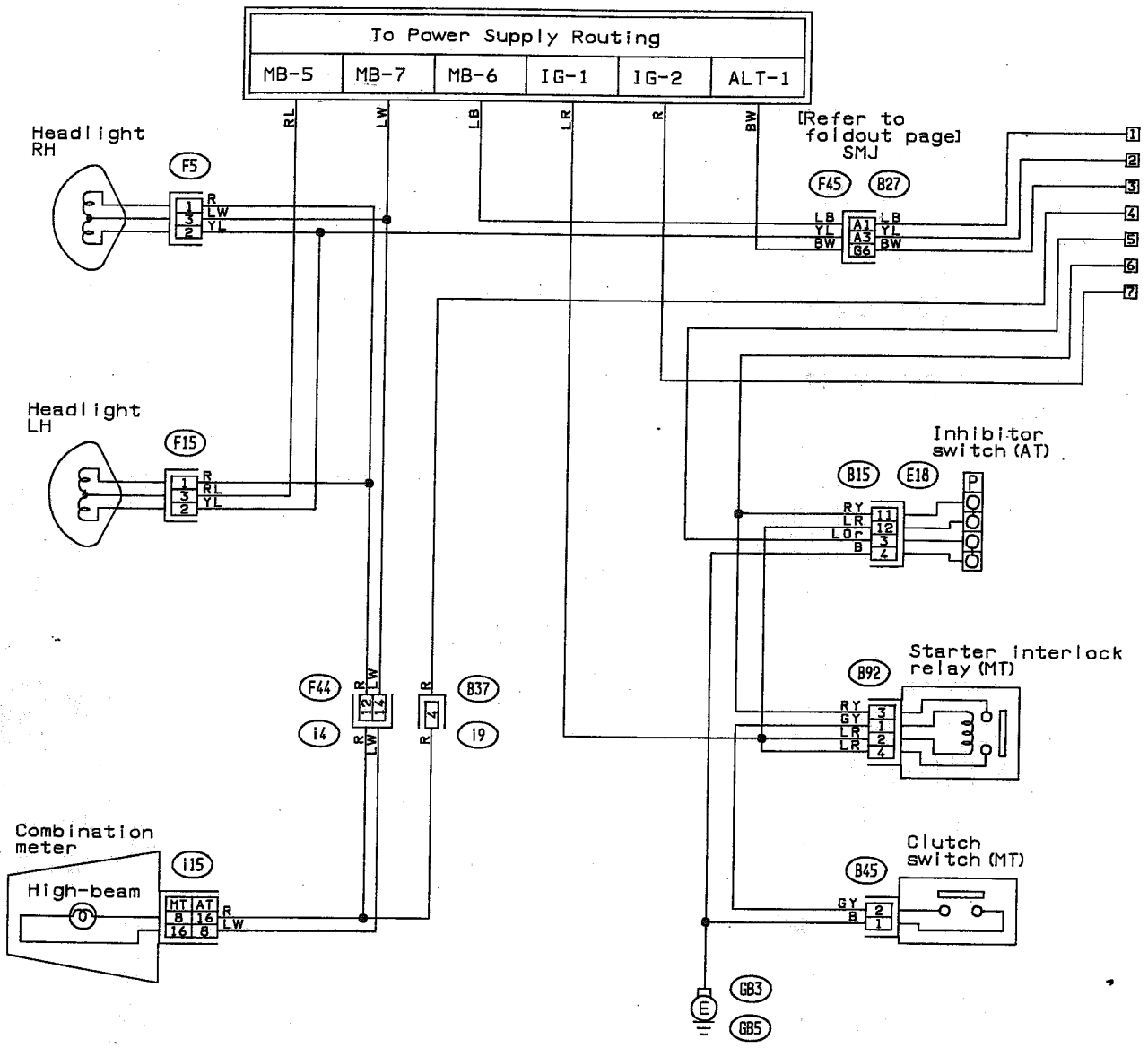
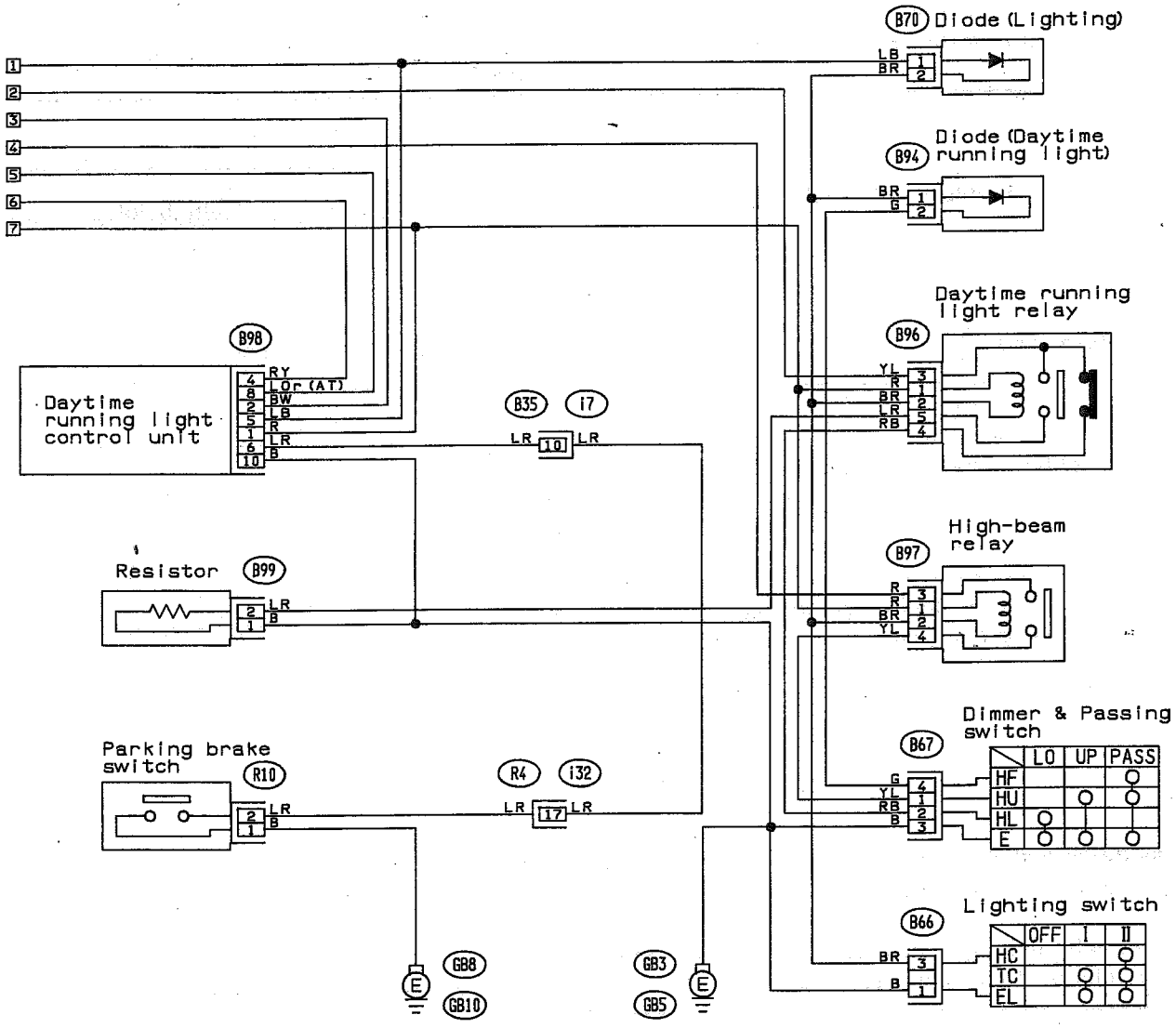
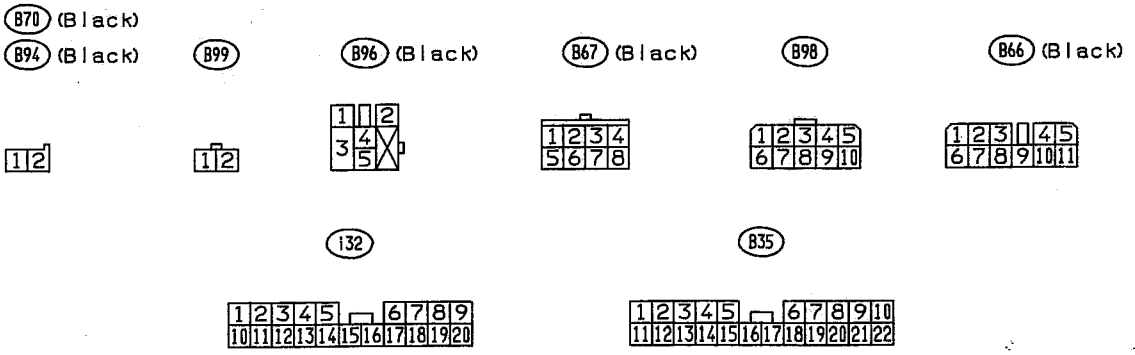


Fig. 31

BC20-01A

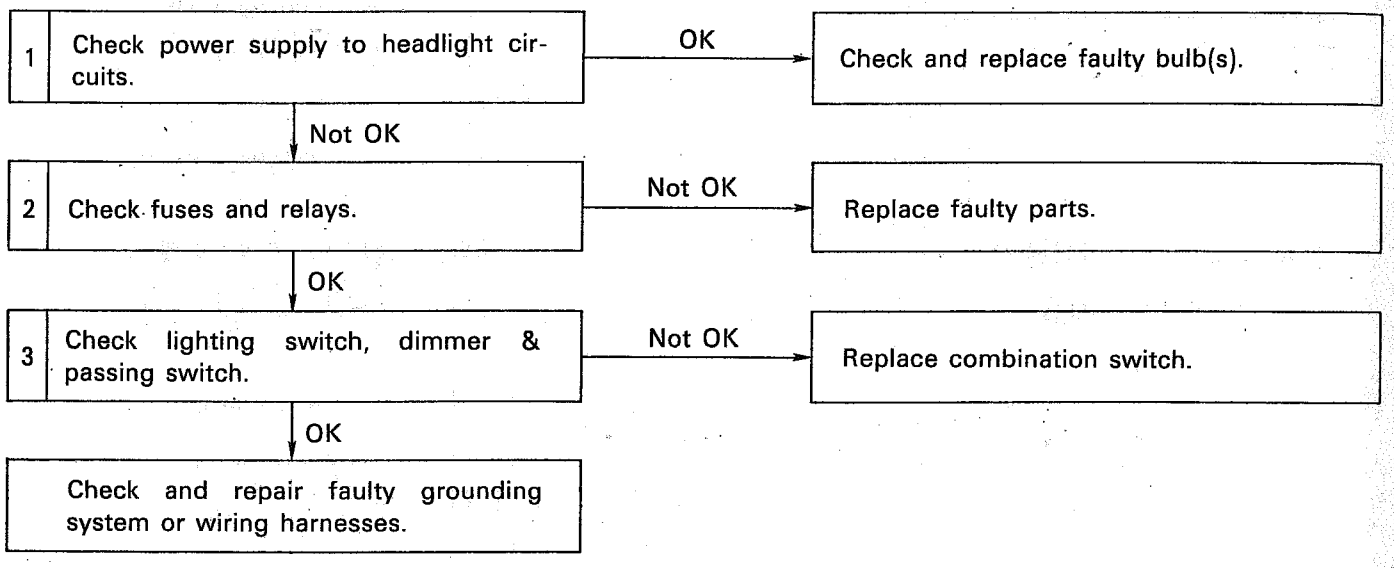

B70 Diode (Lighting)
B94 Diode (Daytime running light)
Daytime running light relay
B96
B98
Daytime running light control unit
B35 i7
Resistor B99
High-beam relay
B97
Dimmer & Passing switch
B67
LO UP PASS
HF
HU
HL
E
Parking brake switch R10
R4 i32
Lighting switch
B66
OFF I II
HC
TC
EL
GB8
GB10
GB3
GB5


B70 (Black)
B94 (Black)
B99
B96 (Black)
B67 (Black)
B98
B66 (Black)
i32
B35

BC20-01B

Neither upper and lower headlights nor passing lights come on.

CONTENTS OF DIAGNOSIS	SYMPTOM
Bulb, power supply, switch, harness and ground.	Upper and lower headlights/passing light do not come on.



1 Check power supply to headlight circuits.

Turn ignition switch ON and set lighting switch to 2nd position.

Disconnect left and right headlight connectors, and check for voltage at connector terminals.

Specification: Battery voltage is present.

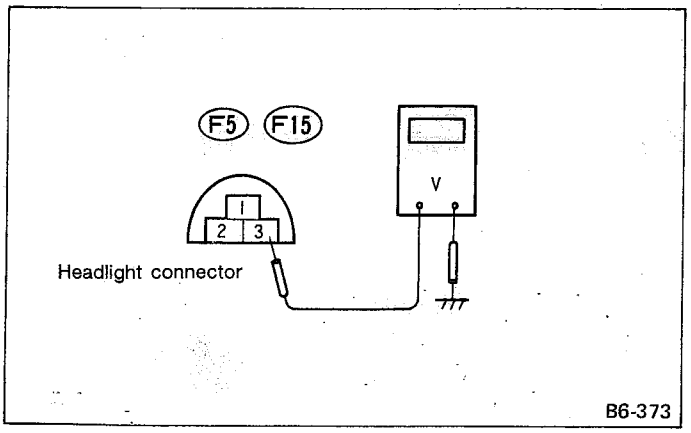


Fig. 31-1

2 Check fuses and relays.

Check each fuse and relay.

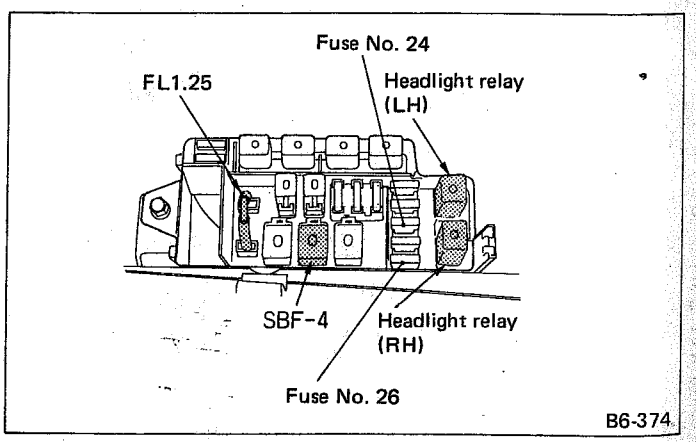


Fig. 31-2

3 Check lighting switch and dimmer & passing switch.

Disconnect combination switch connector. Check for continuity between terminals (under the following conditions).

Lighting switch (set to 2nd position):

Between terminals (1) and (3)

Dimmer & passing switch:

Between terminals (2) and (3) for headlight low beam

Between terminals (1) and (3) for headlight high beam)

Among terminals (1), (3) and (4) for passing light

Specification: Continuity exists.

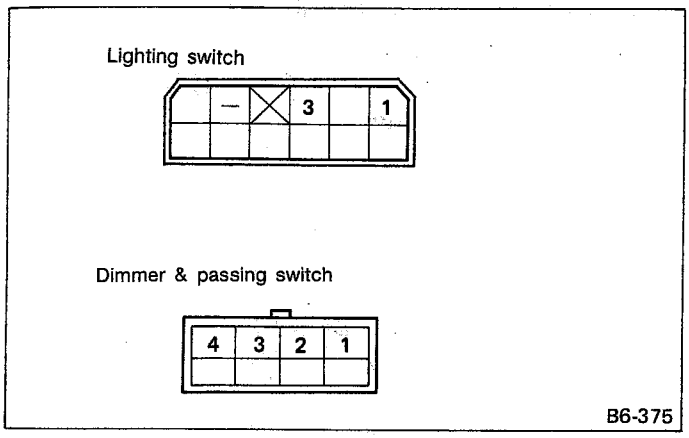


Fig. 31-3

6-2. LIGHTING (TAIL•ILLUMINATION•etc.)

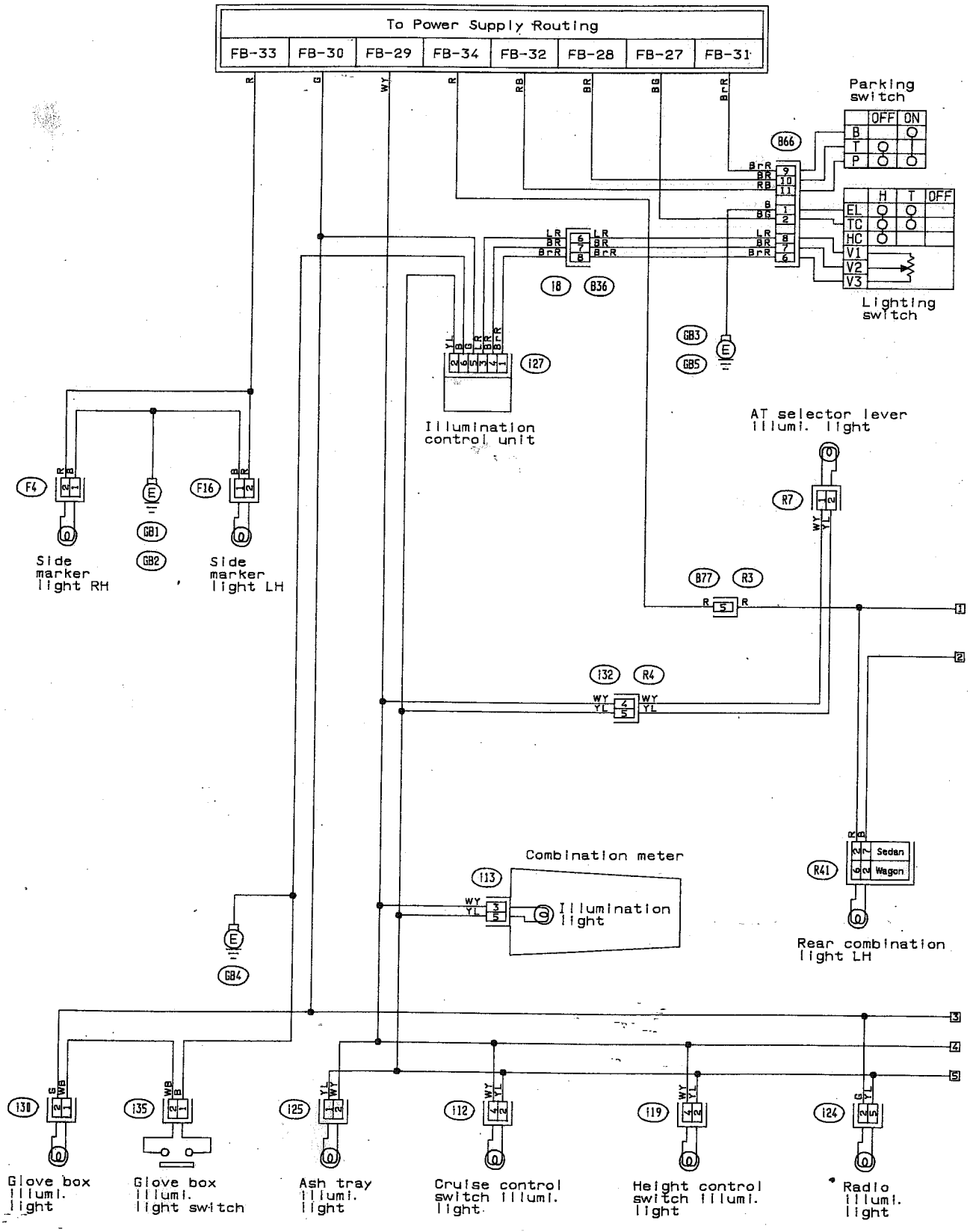
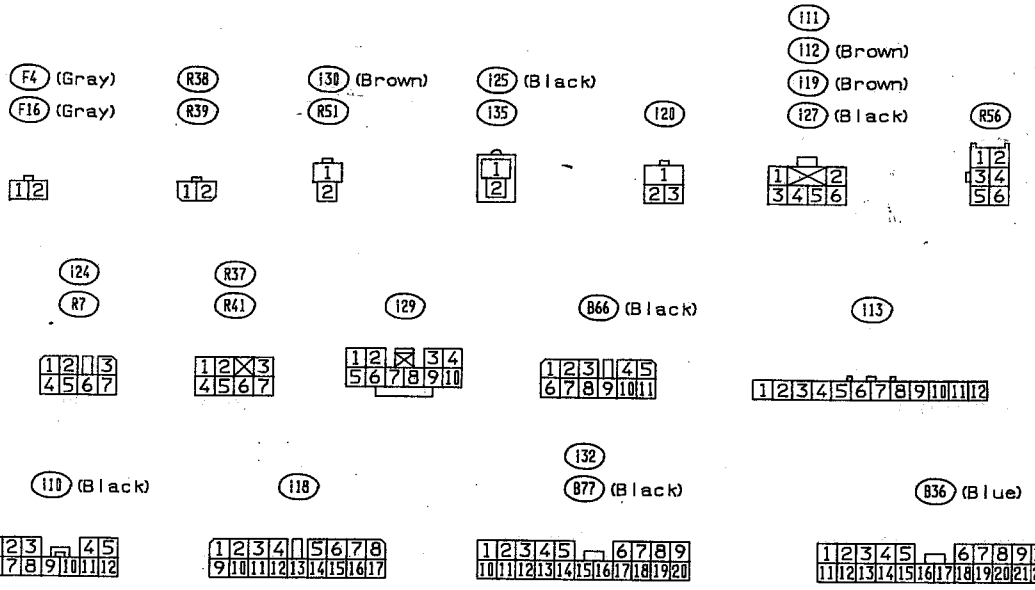
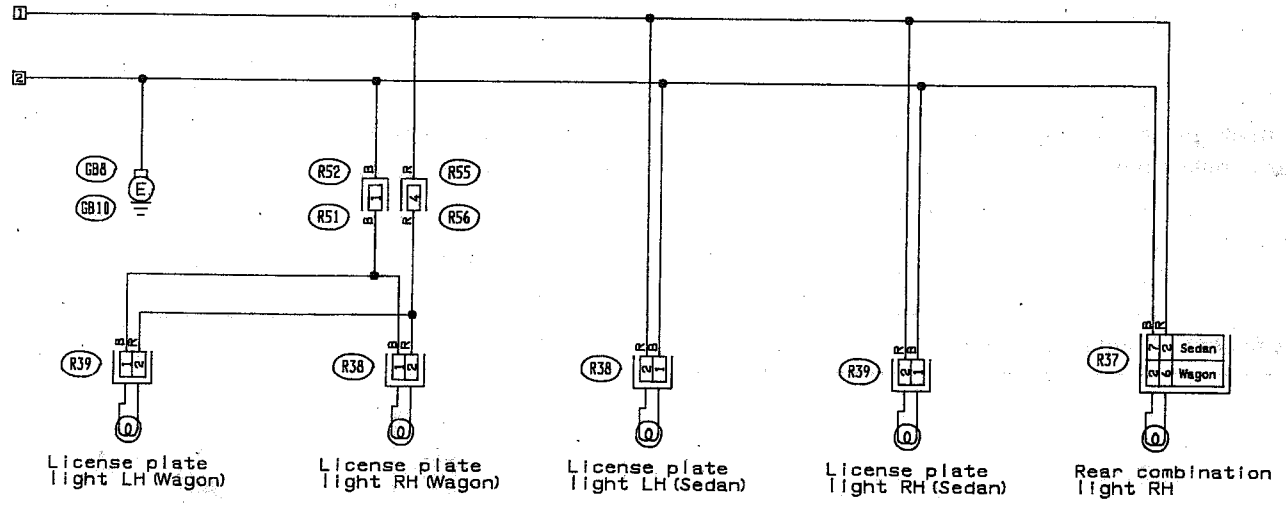
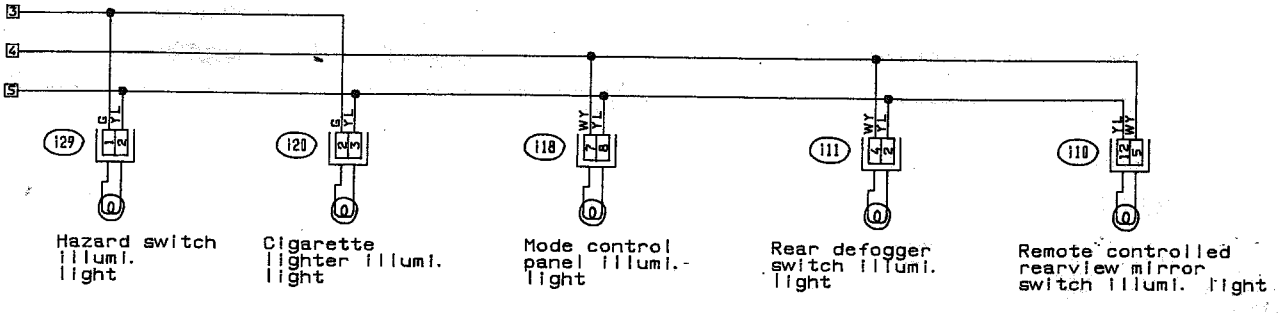


Fig. 32

BU21-01A


F4 (Gray)
F16 (Gray)
R38
R39
130 (Brown)
R51
125 (Black)
135
120
111
112 (Brown)
119 (Brown)
127 (Black)
R56
124
R7
R37
R41
129
B66 (Black)
113
110 (Black)
118
132
B77 (Black)
B36 (Blue)

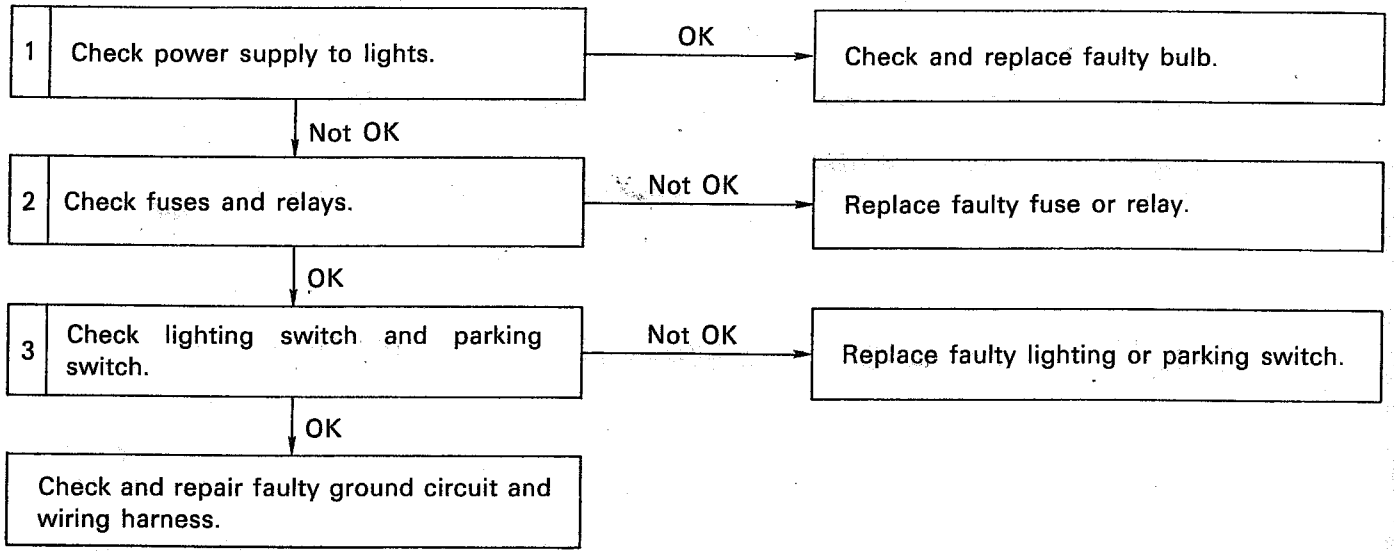

GB8
GB10
R52
R51
R55
R56
R39
R38
R38
R39
R37
Sedan
Wagon
License plate light LH (Wagon)
License plate light RH (Wagon)
License plate light LH (Sedan)
License plate light RH (Sedan)
Rear combination light RH


129
120
118
111
110
Hazard switch illumi. light
Cigarette lighter illumi. light
Mode control panel illumi. light
Rear defogger switch illumi. light
Remote controlled rearview mirror switch illumi. light

BU21-01B

Tail and illumination lights do not come on when lighting switch is set to 1st and 2nd position.

CONTENTS OF DIAGNOSIS	SYMPTOM
Power supply, switches, harnesses and grounding circuit	Tail and illumination lights do not come on.



1 Check power supply voltage at light assembly connector.

Turn ignition switch ON and set lighting switch to 1st position.
Measure voltage at connector terminals.

Specification: Continuity exists.

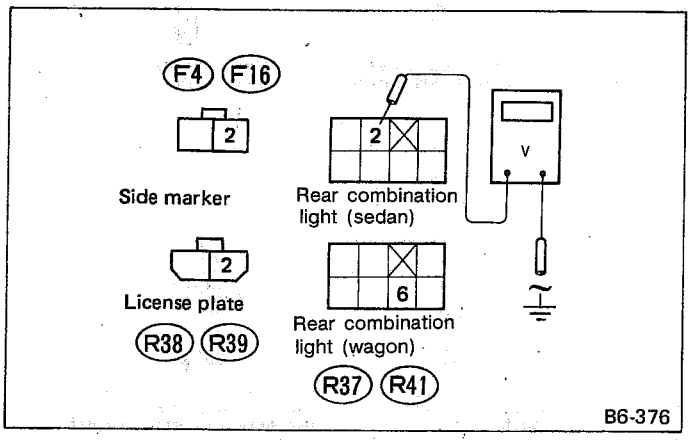


Fig. 32-1

2 Check fuses and relays.

Check fuses and relays.

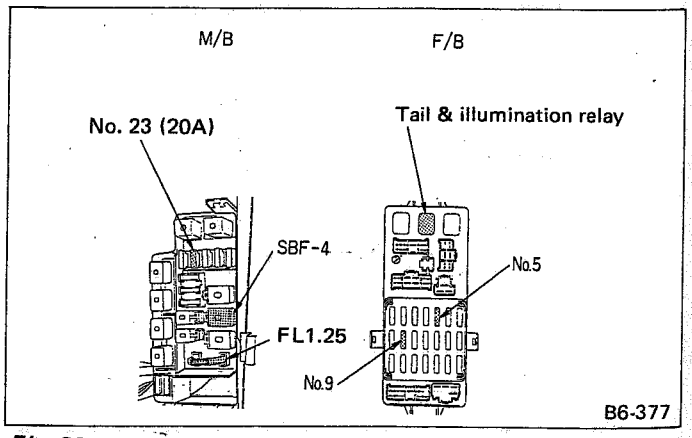


Fig. 32-2

3 Check lighting and parking switches.

Disconnect combination switch connector, and check for continuity between terminals (described below).
Terminals 1 and 2 (lighting switch at 1st position)
Terminal 9 and 11 (parking switch ON)

Specification: Continuity exists

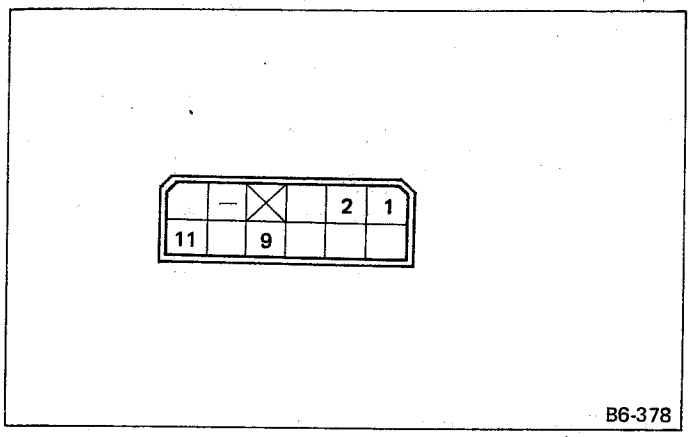


Fig. 32-3

7. ROOM LIGHT AND DOOR SWITCH (WITH STEP LIGHT)

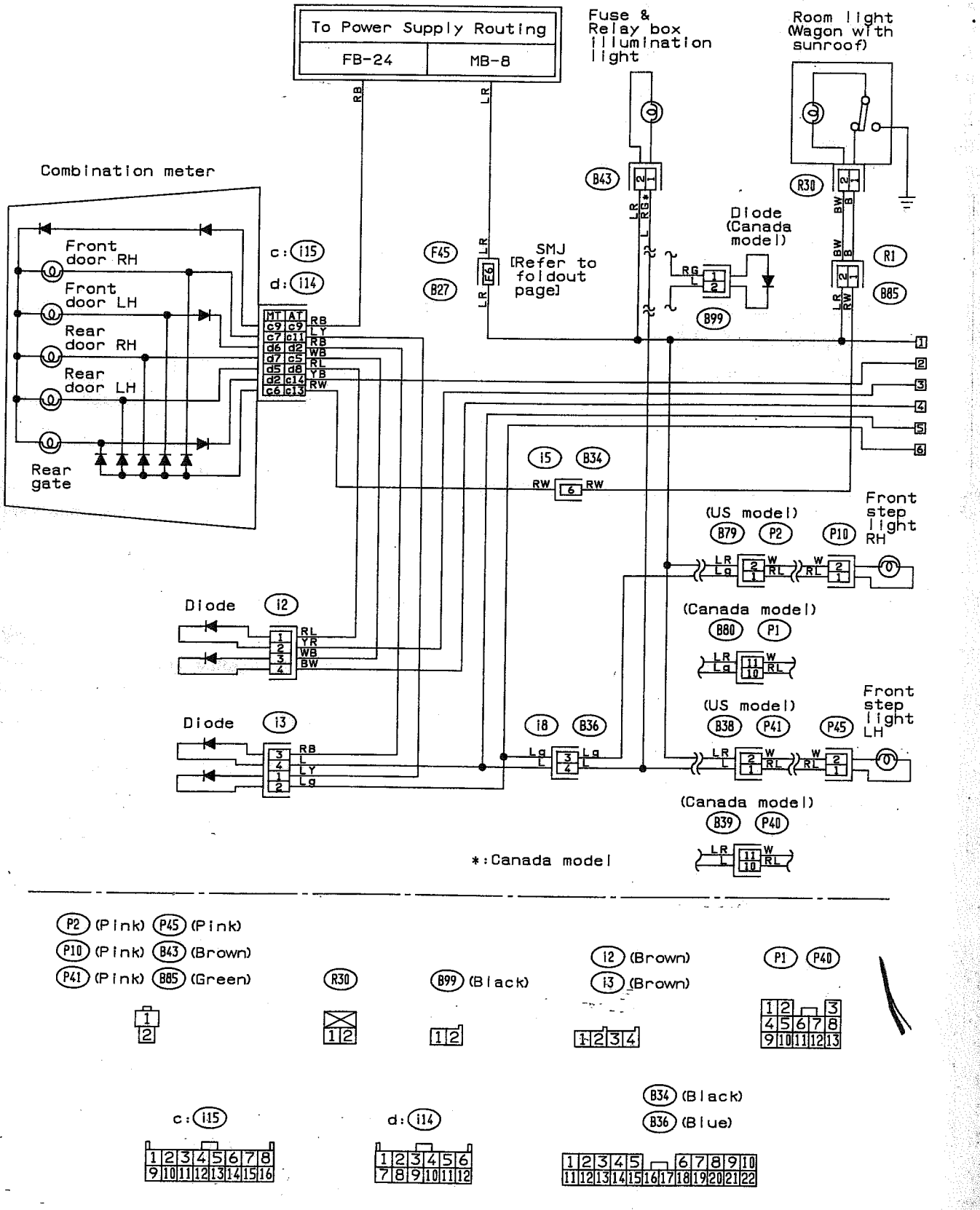
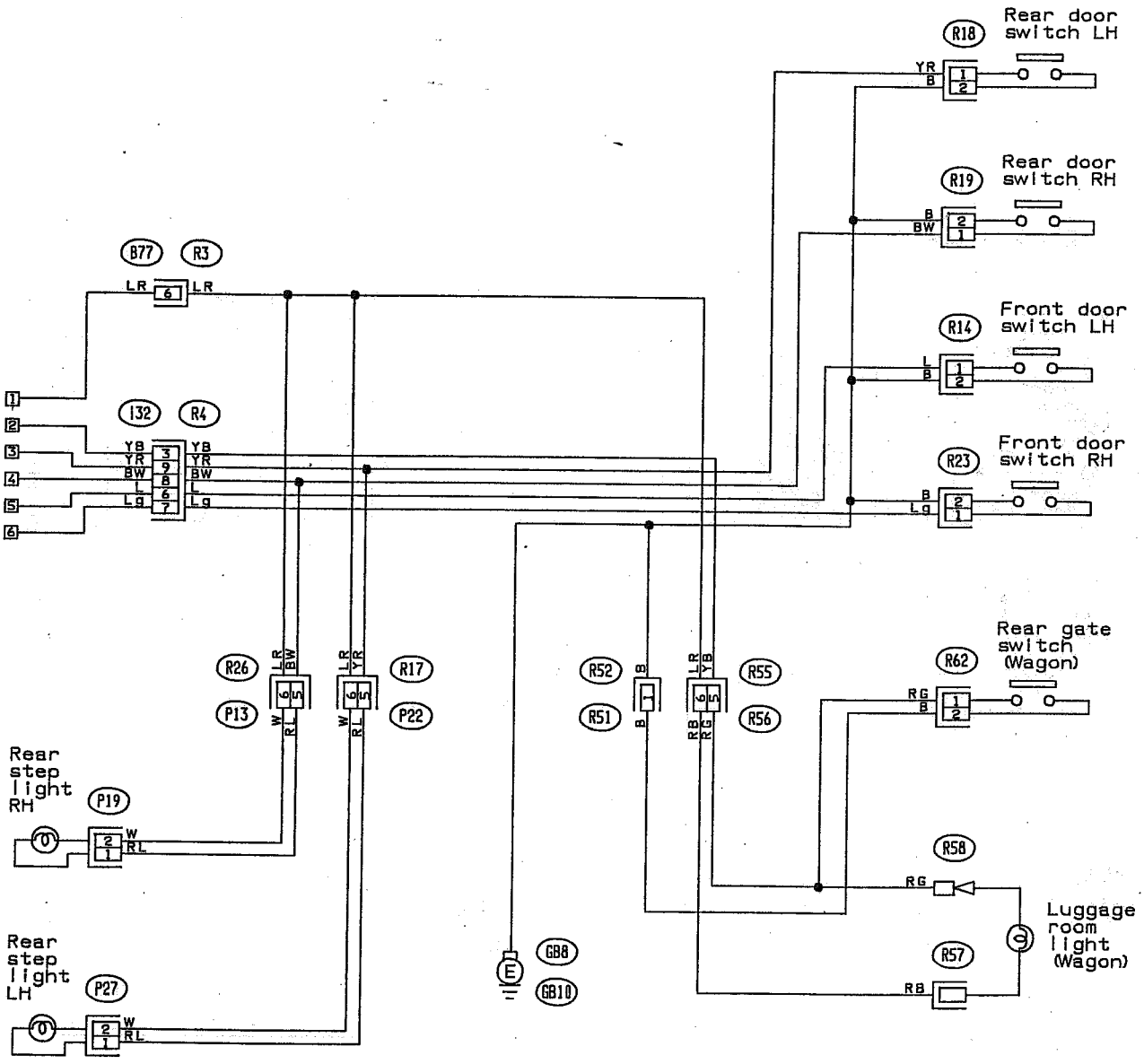
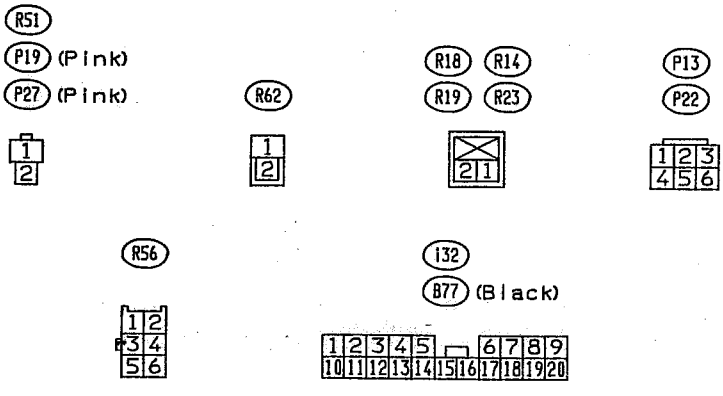


Fig. 33

BU23-01A


Rear door switch LH
R18
Rear door switch RH
R19
Front door switch LH
R14
Front door switch RH
R23
B77
R3
I32
R4
R26
P13
R17
P22
R52
R51
R55
R56
R62
Rear gate switch (Wagon)
Rear step light RH
P19
Rear step light LH
P27
R58
R57
Luggage room light (Wagon)
GB8
GB10


R51
P19 (Pink)
P27 (Pink)
R62
R18
R14
R19
R23
P13
P22
R56
I32
B77 (Black)

BU23-01B

(WITHOUT STEP LIGHT)

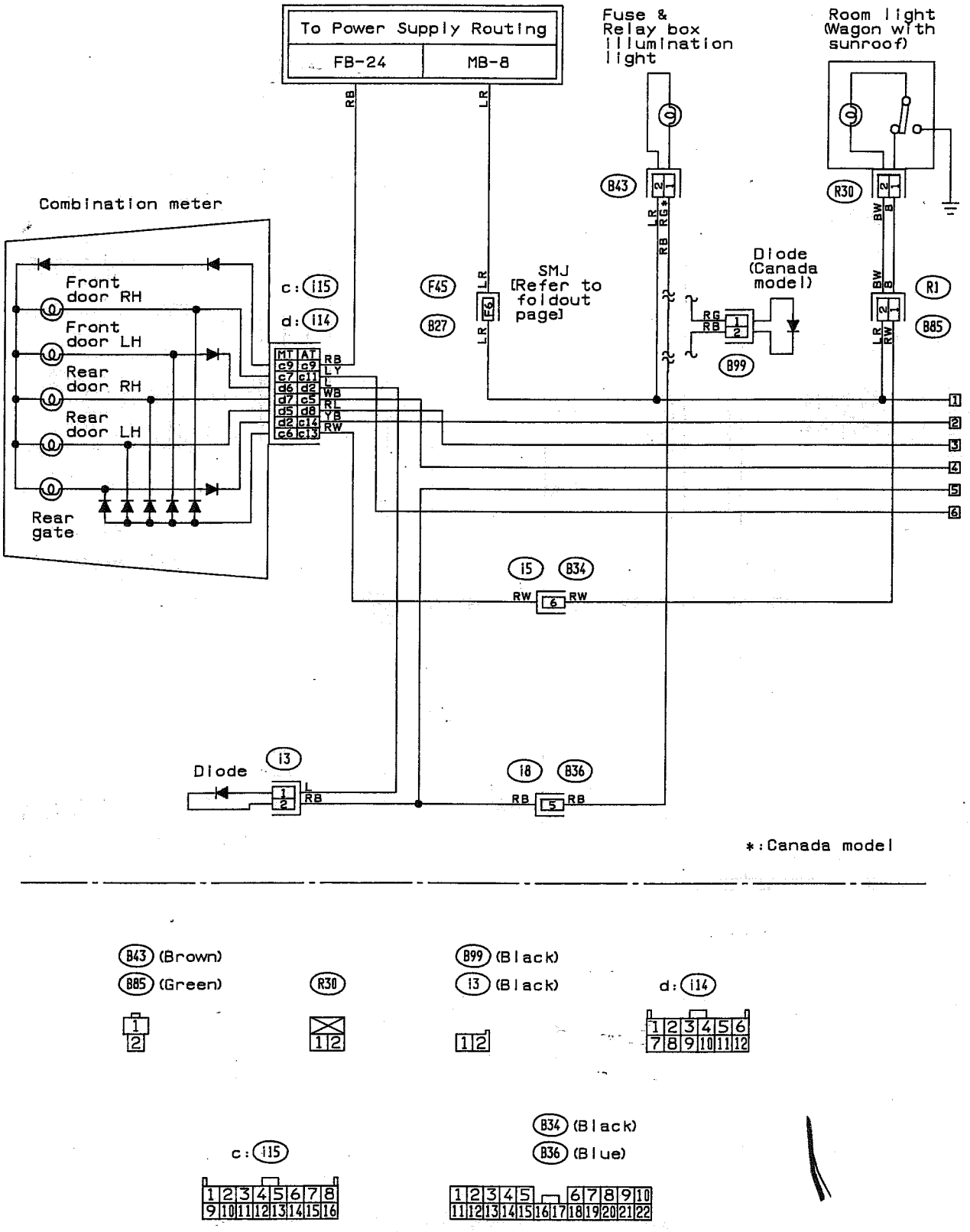
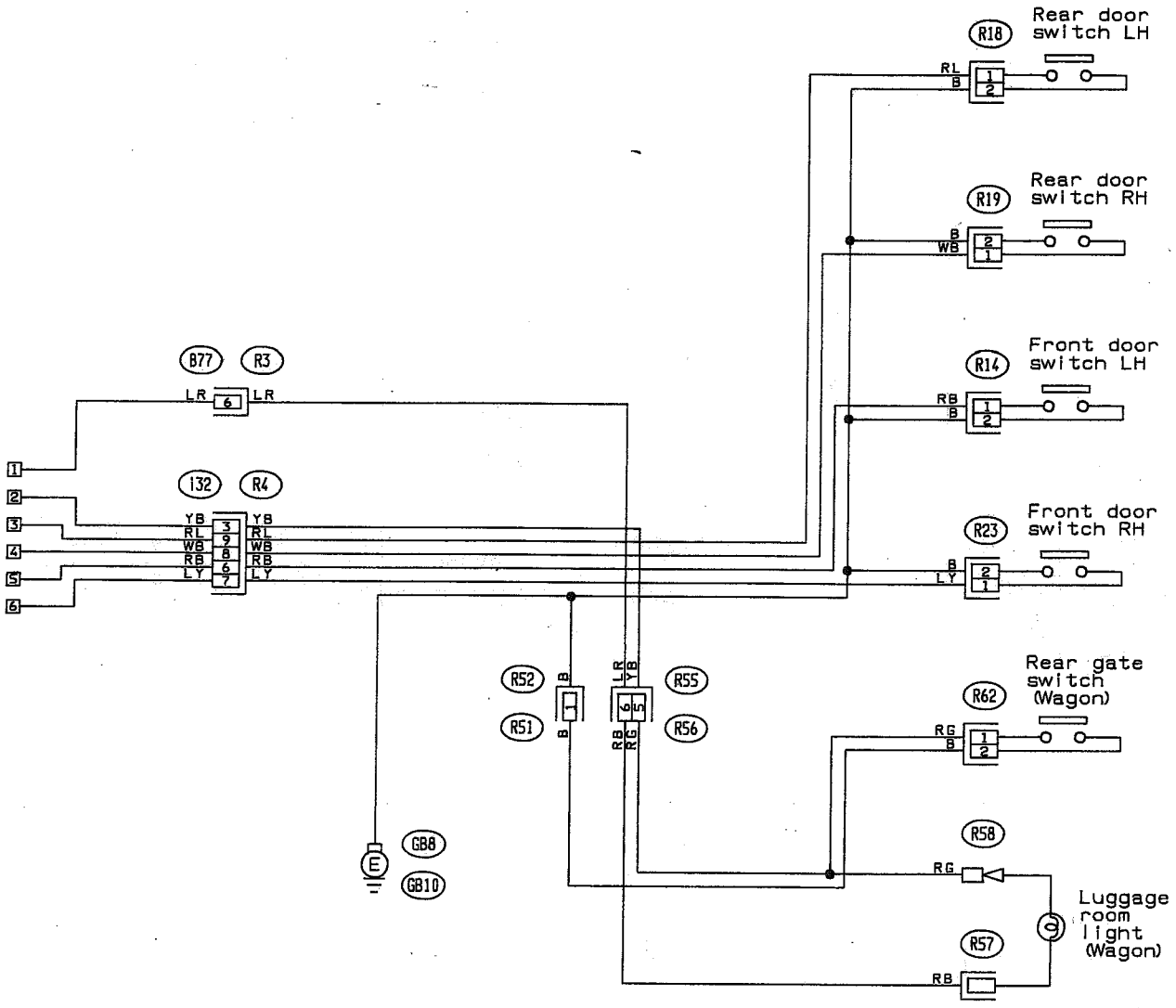
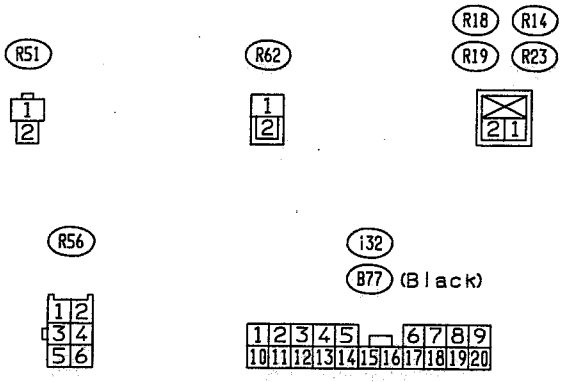


Fig. 34

BU24-01A


Rear door switch LH
R18
Rear door switch RH
R19
Front door switch LH
R14
Front door switch RH
R23
Rear gate switch (Wagon)
R62
Luggage room light (Wagon)
R58
R57
B77
R3
i32
R4
R52
R51
R55
R56
GB8
GB10


R51
R62
R18
R14
R19
R23
R56
i32
B77 (Black)

BU24-01B

8. STOP LIGHT

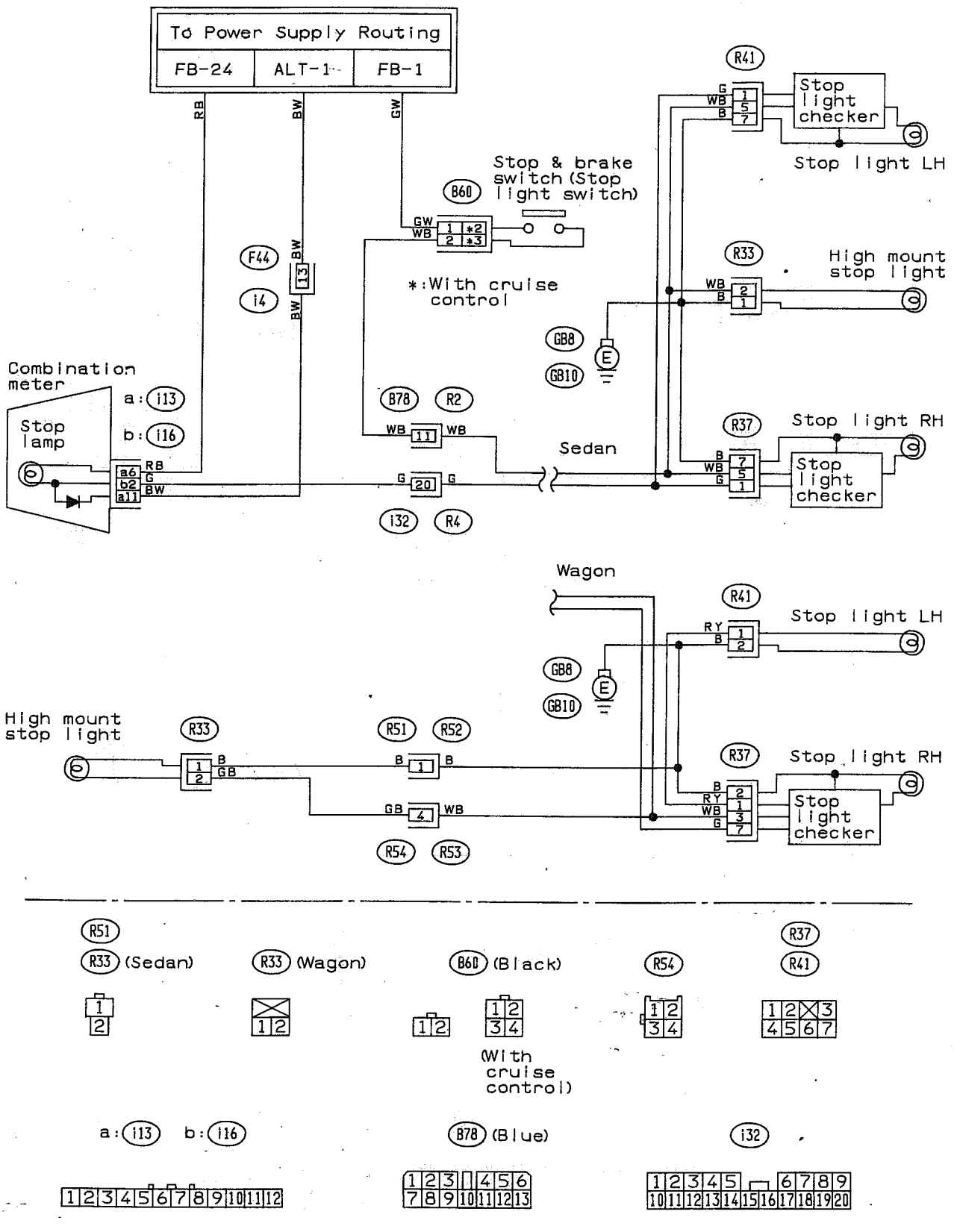


Fig. 35

BU25-01

9. TURN SIGNAL AND HAZARD

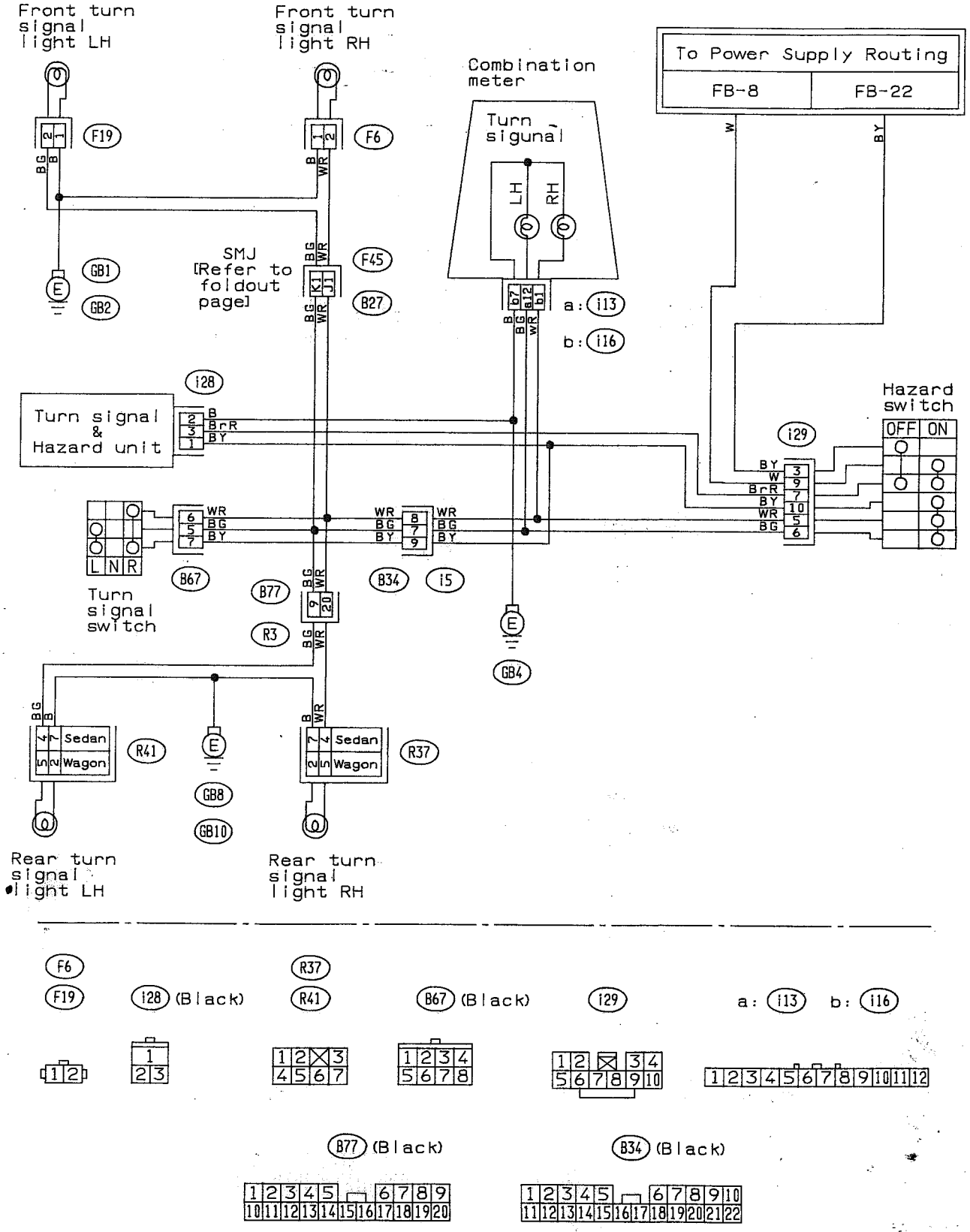
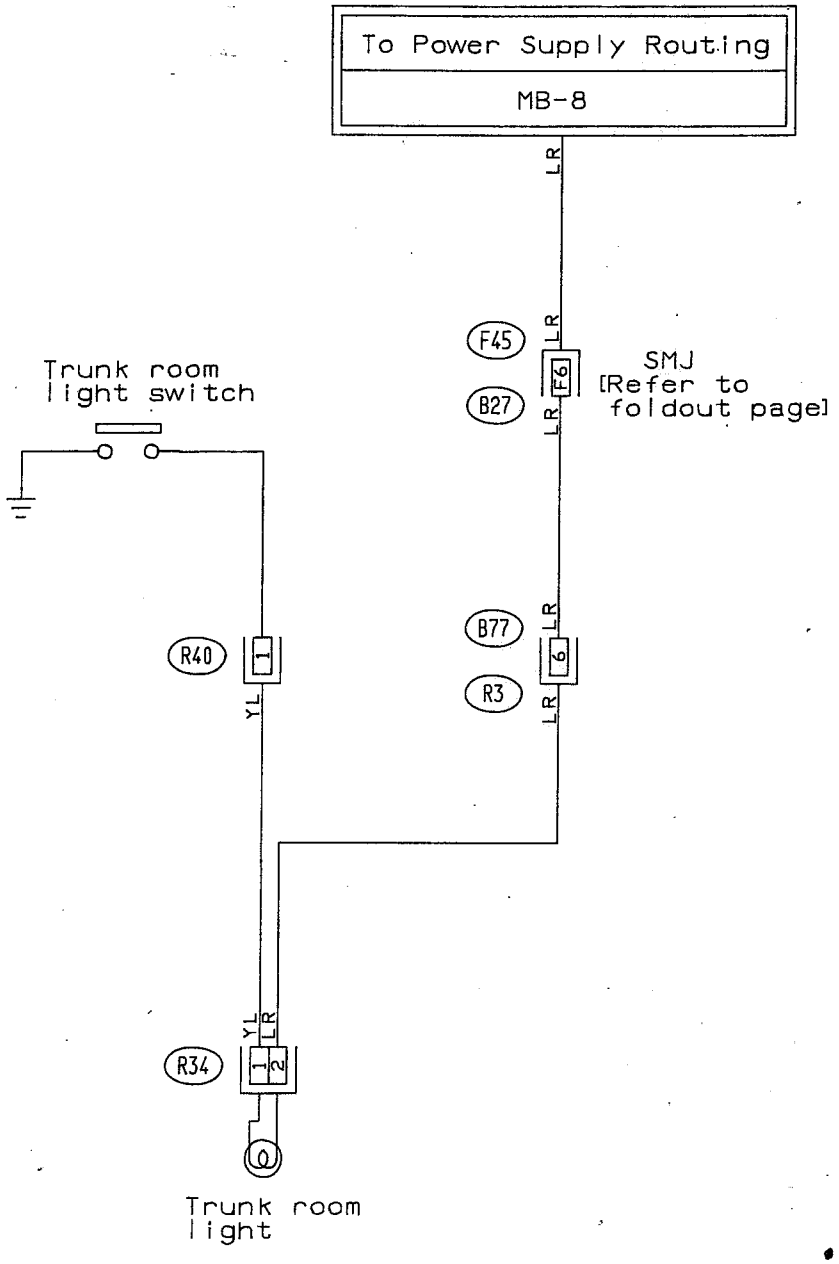


Fig. 36

BU26-01

10. TRUNK ROOM LIGHT



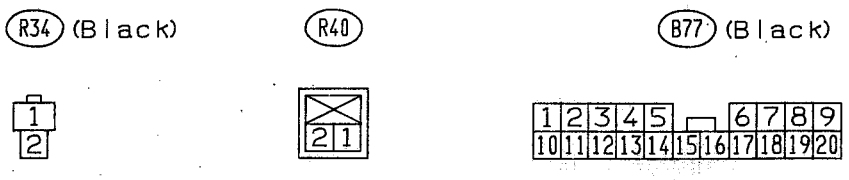


Fig. 37

BU28-01

11. BACK-UP LIGHT

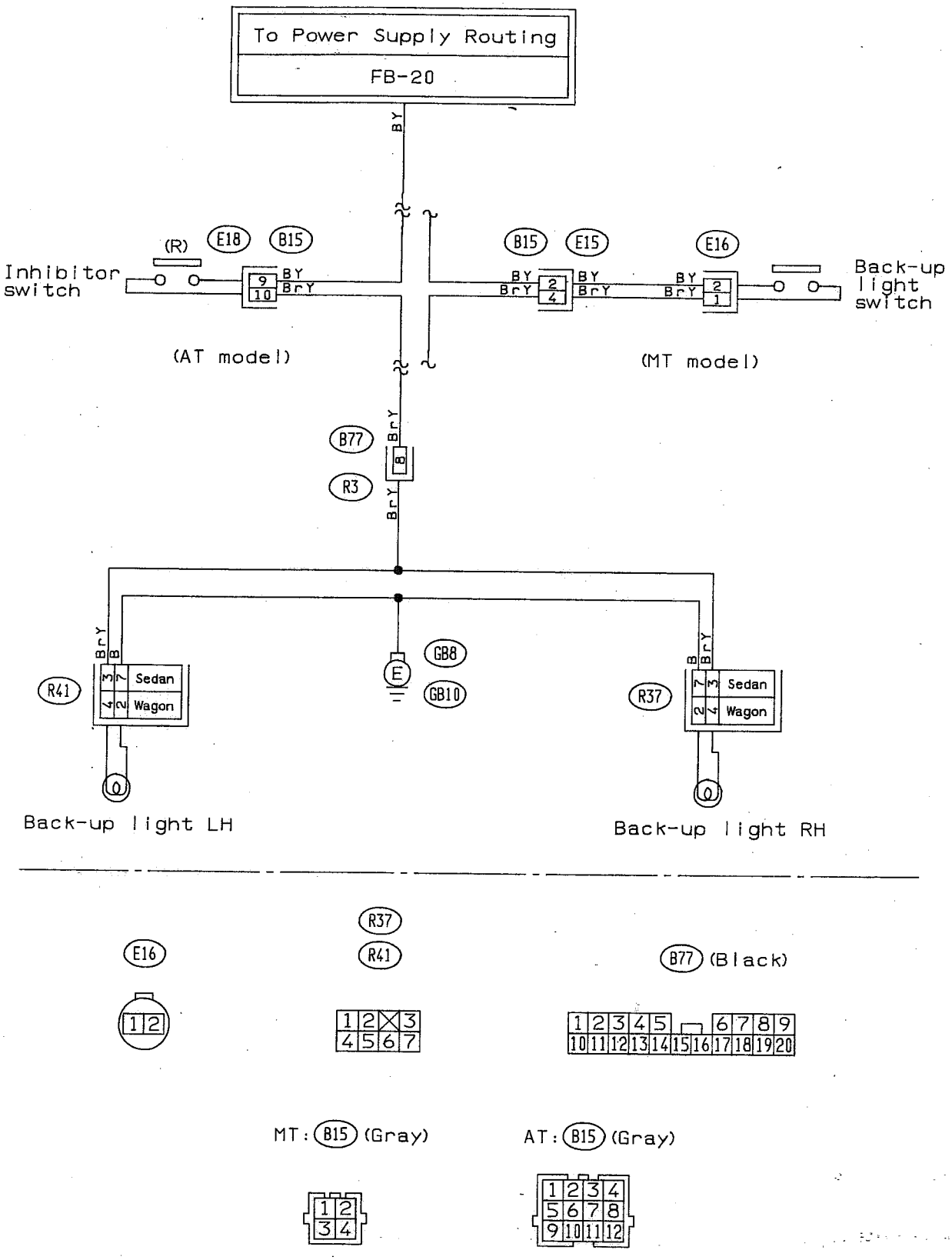
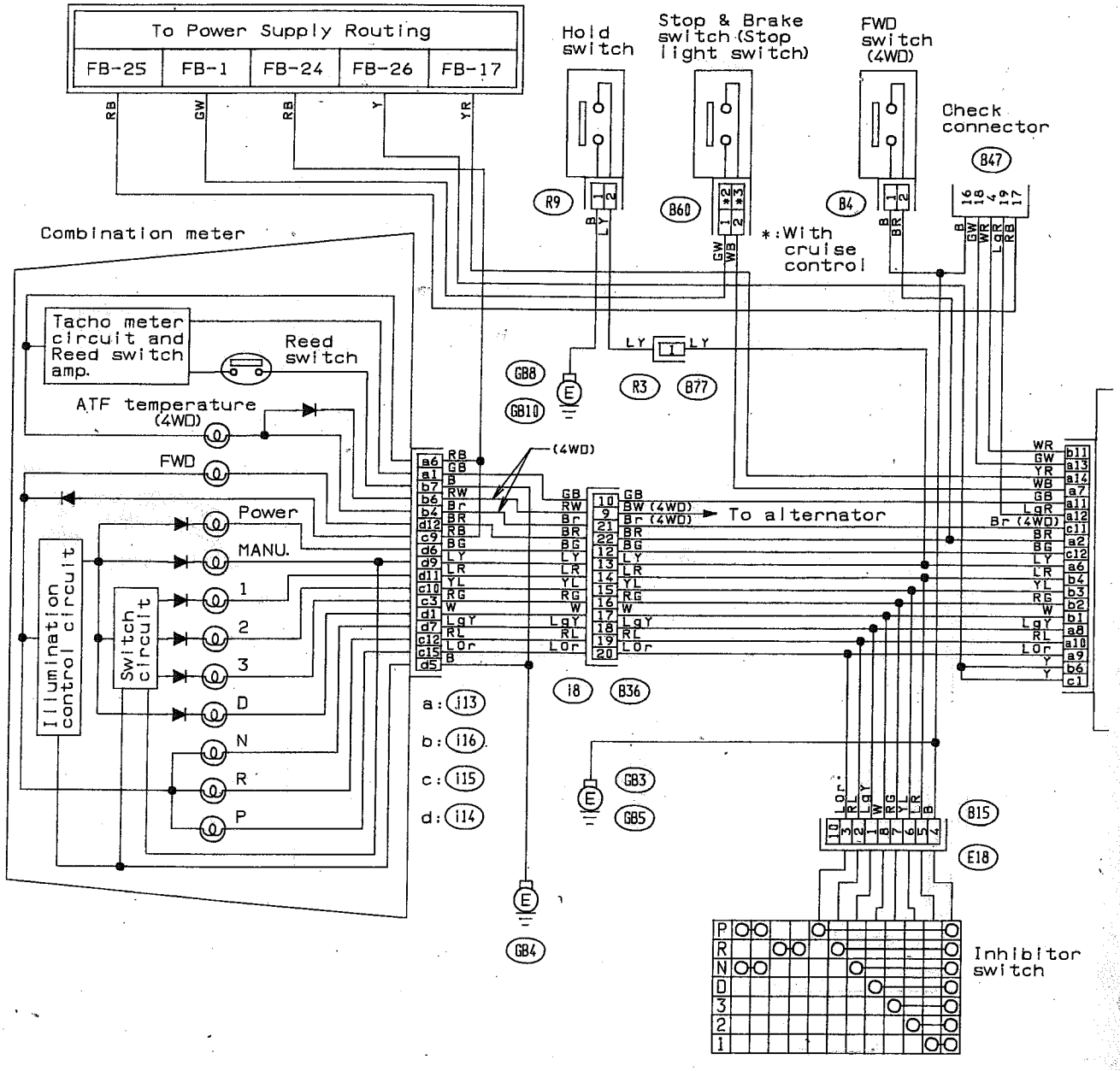


Fig. 38

BU29-01

12. AT CONTROL



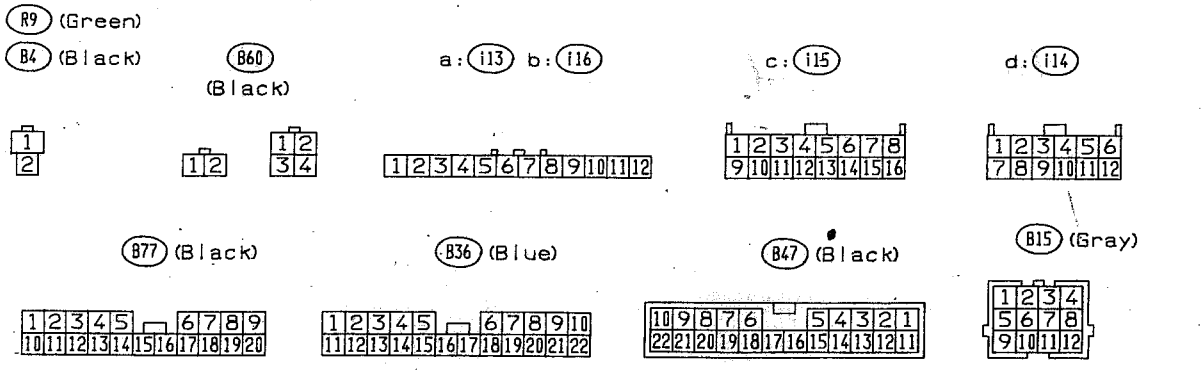
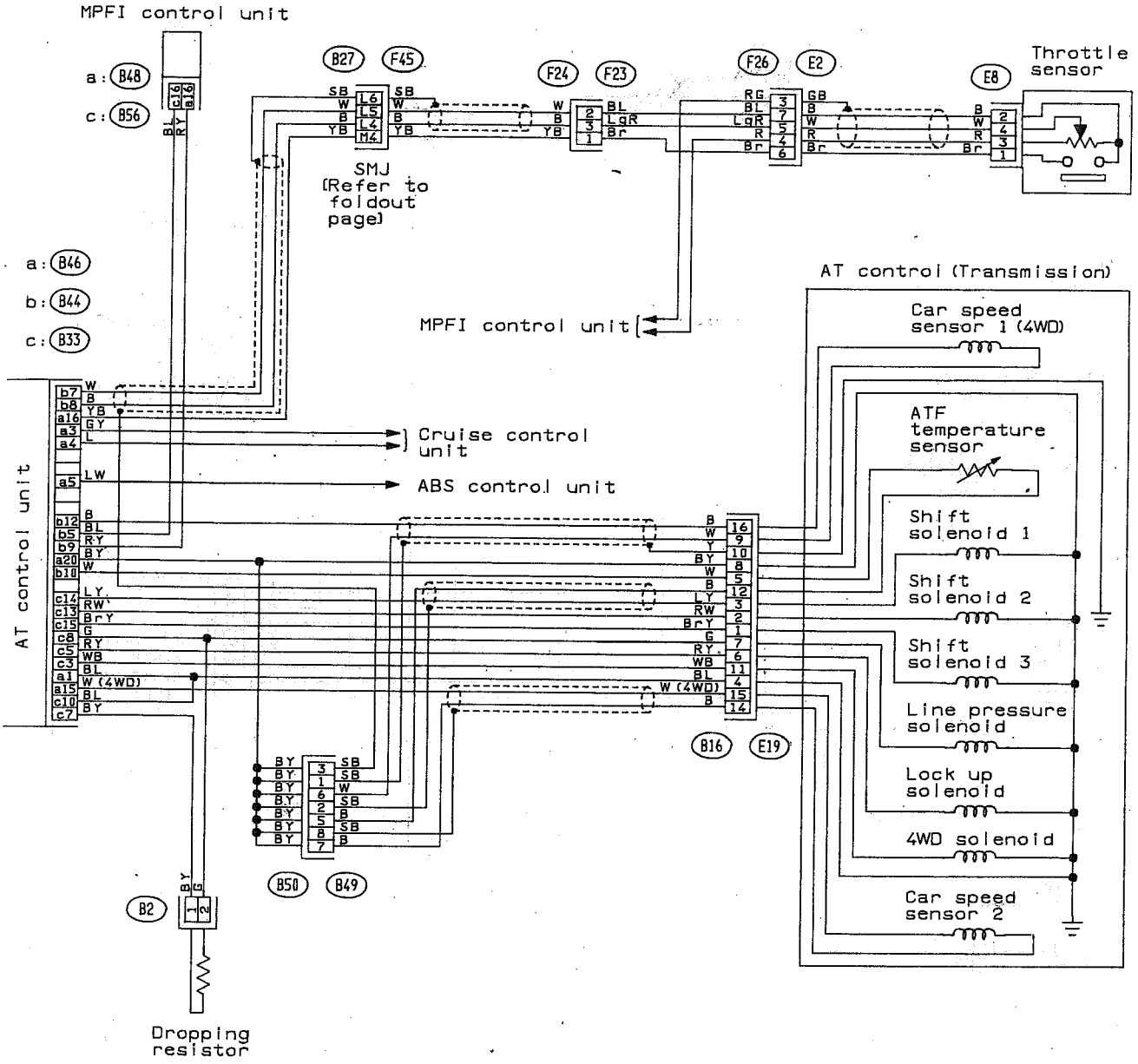
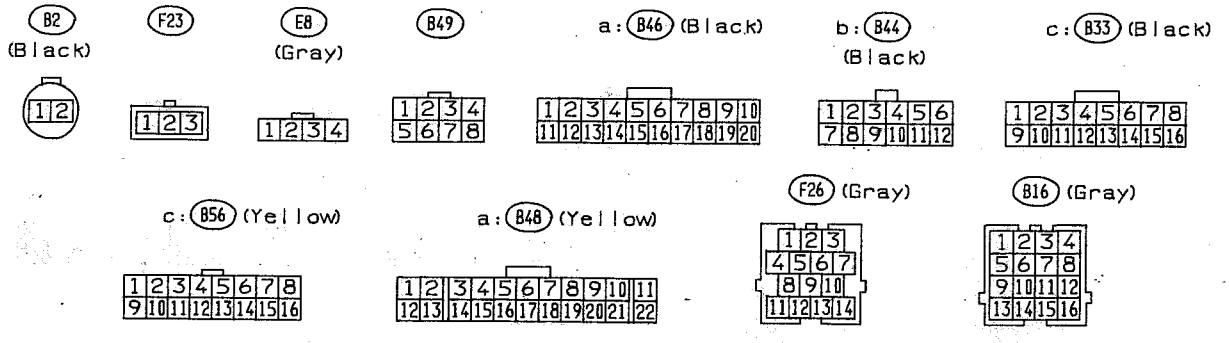


Fig. 39

BU41-01A


MPFI control unit
a: B48
c: B56
B27
F45
F24
F23
F26
E2
E8
Throttle sensor
SMJ (Refer to foldout page)
a: B46
b: B44
c: B33
MPFI control unit
AT control (Transmission)
Car speed sensor 1 (4WD)
ATF temperature sensor
Shift solenoid 1
Shift solenoid 2
Shift solenoid 3
Line pressure solenoid
Lock up solenoid
4WD solenoid
Car speed sensor 2
Cruise control unit
ABS control unit
AT control unit
B16
E19
B50
B49
B2
Dropping resistor


B2 (Black)
F23
E8 (Gray)
B49
a: B46 (Black)
b: B44 (Black)
c: B33 (Black)
c: B56 (Yellow)
a: B48 (Yellow)
F26 (Gray)
B16 (Gray)

BU41-01B

13. AT SHIFT LOCK

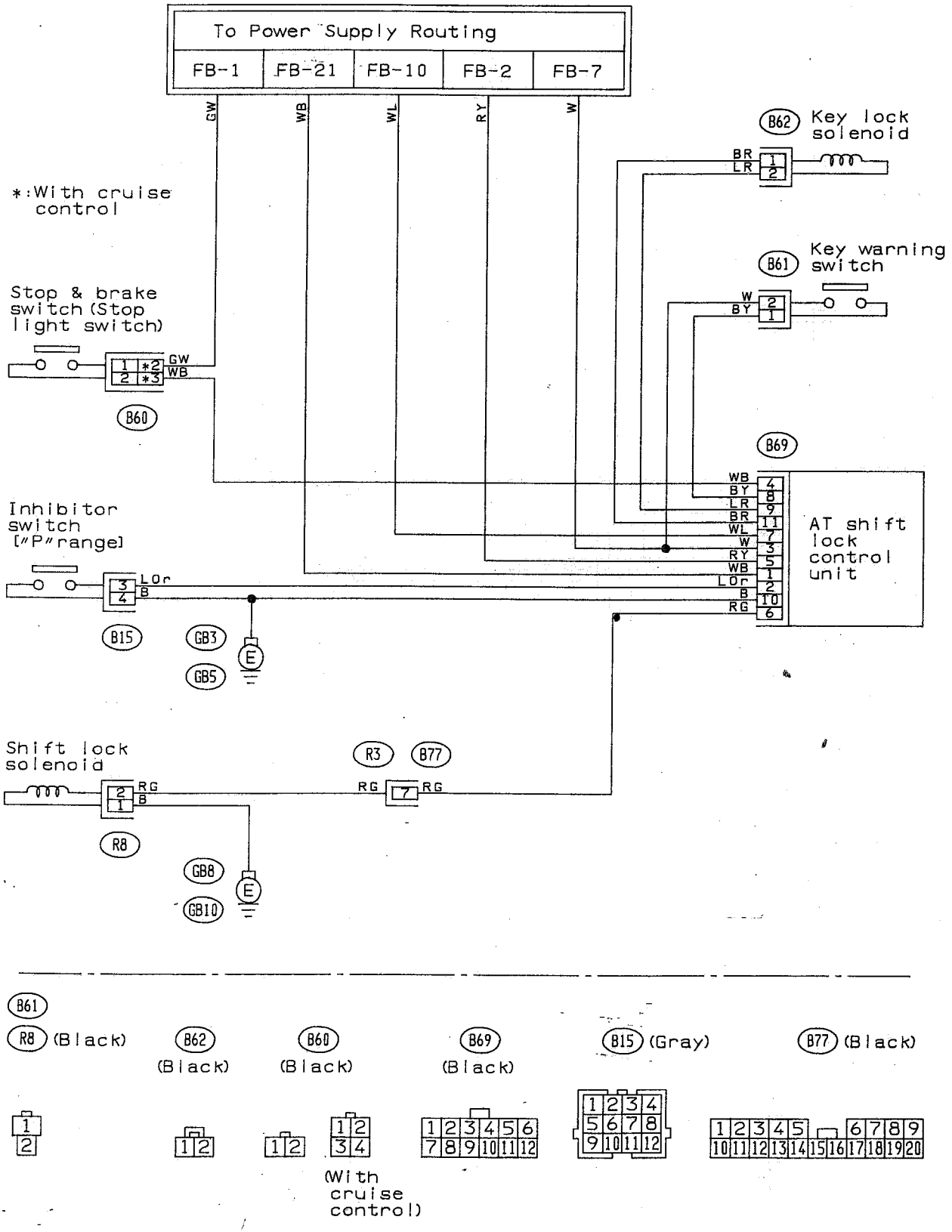
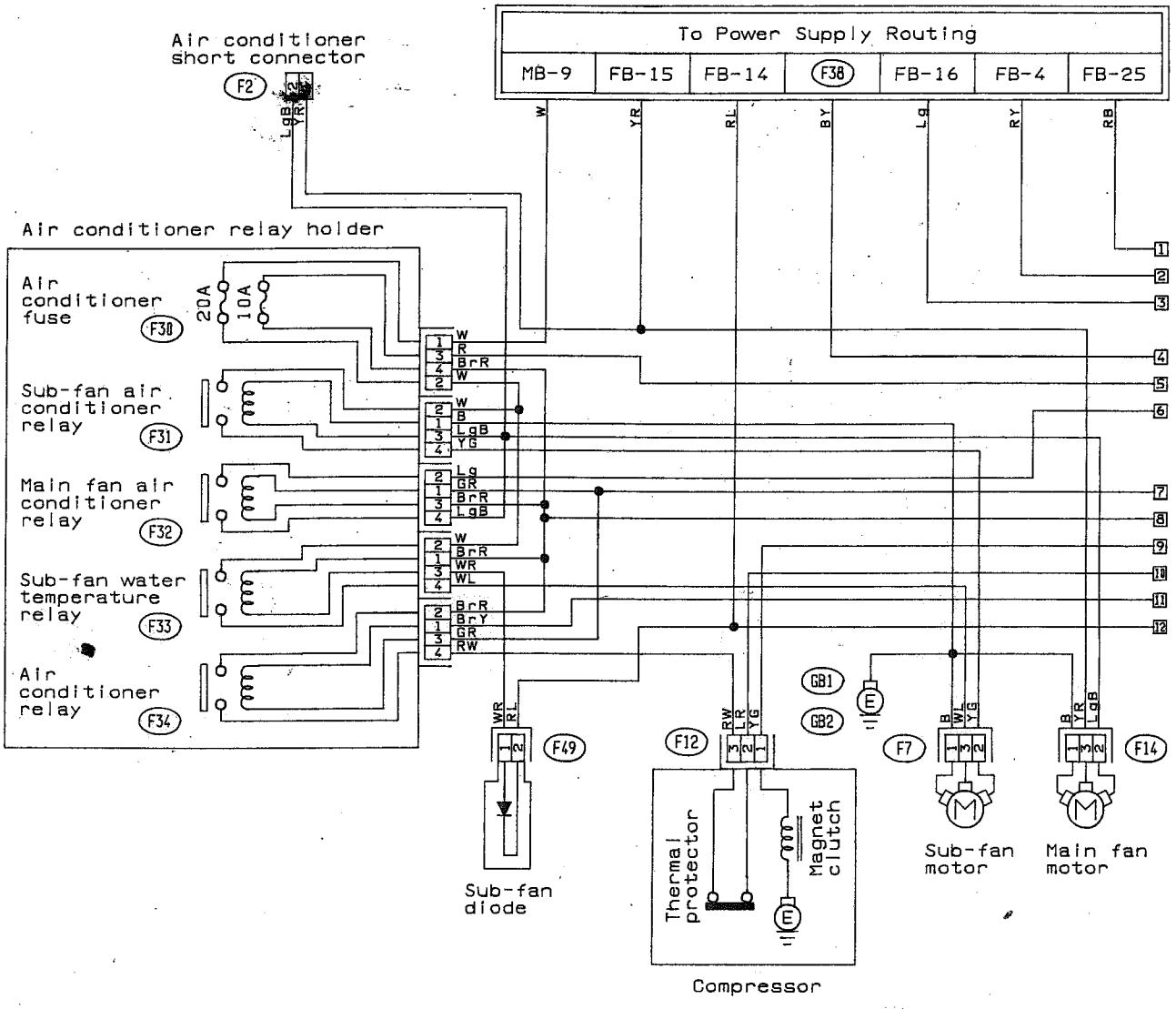


Fig. 40

BU42-01

14. AIR CONDITIONER



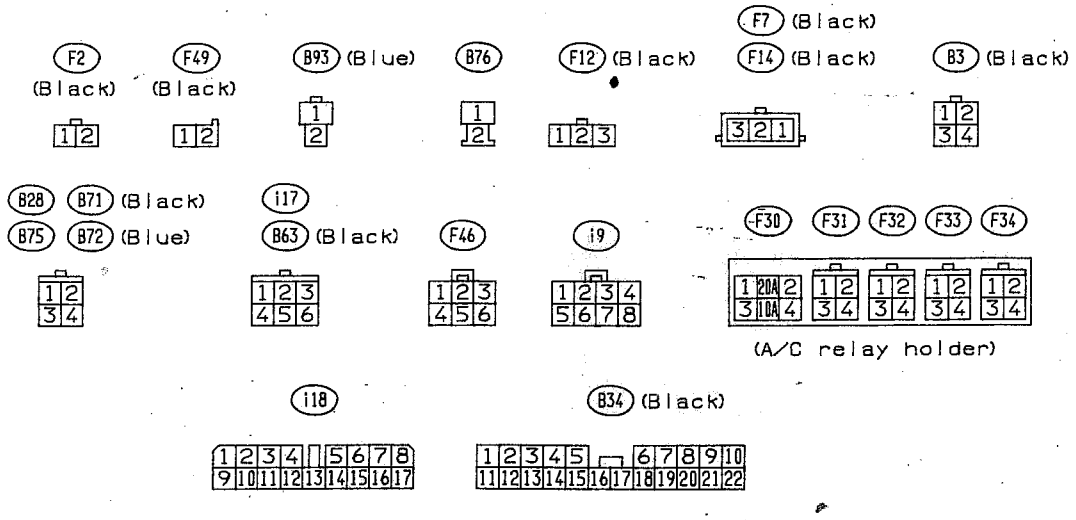
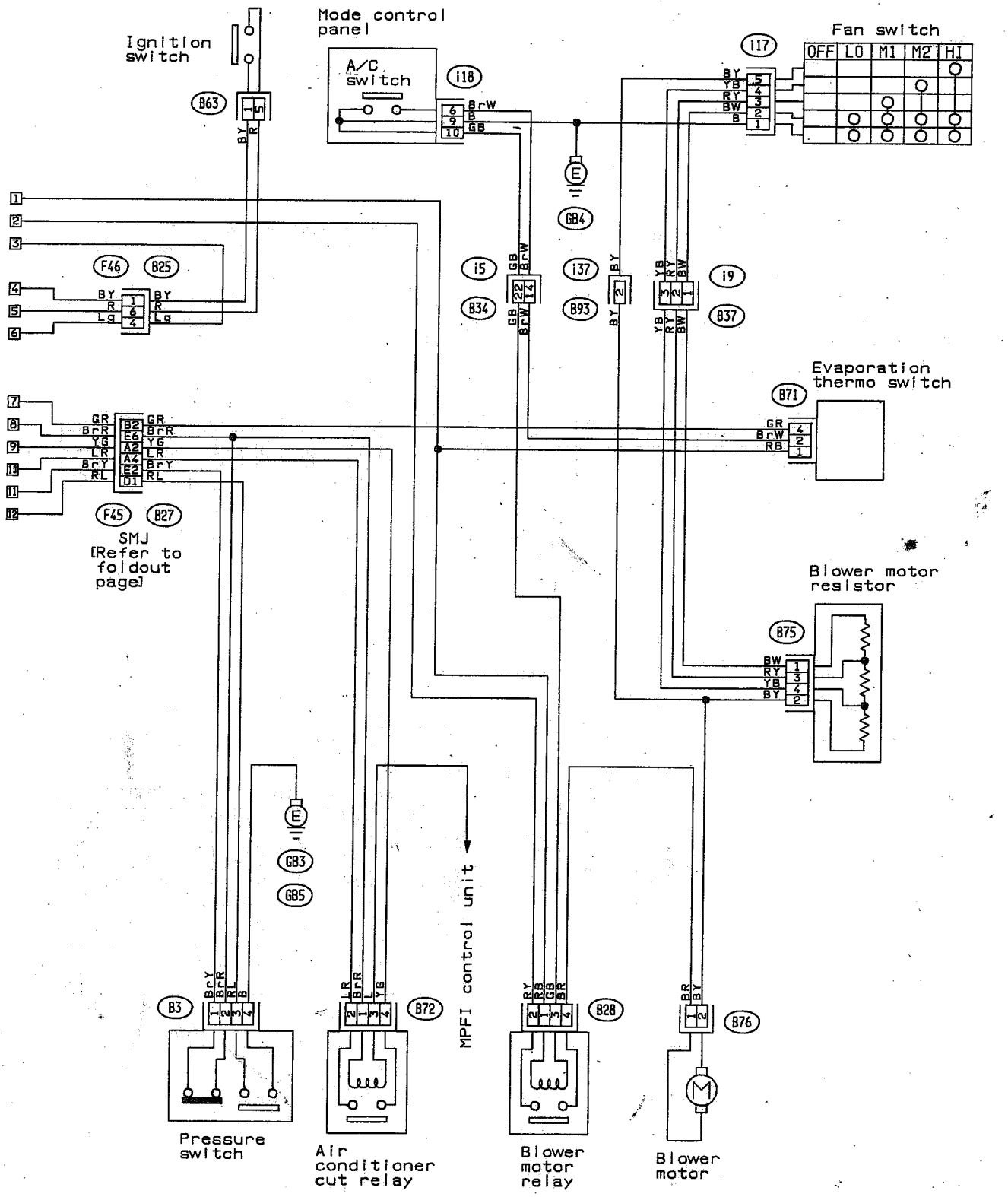


Fig. 41

BU45-01A


Ignition switch
B63
Mode control panel
A/C switch
i18
Fan switch
i17
OFF
LO
M1
M2
HI
GB4
i5
B34
i37
B93
i9
B37
F46
B25
Evaporation thermo switch
B71
F45
B27
SMJ
(Refer to foldout page)
Blower motor resistor
B75
GB3
GB5
MPFI control unit
B3
B72
B28
B76
Pressure switch
Air conditioner cut relay
Blower motor relay
Blower motor

BU45-01B

15. WINDSHIELD WIPER AND WASHER

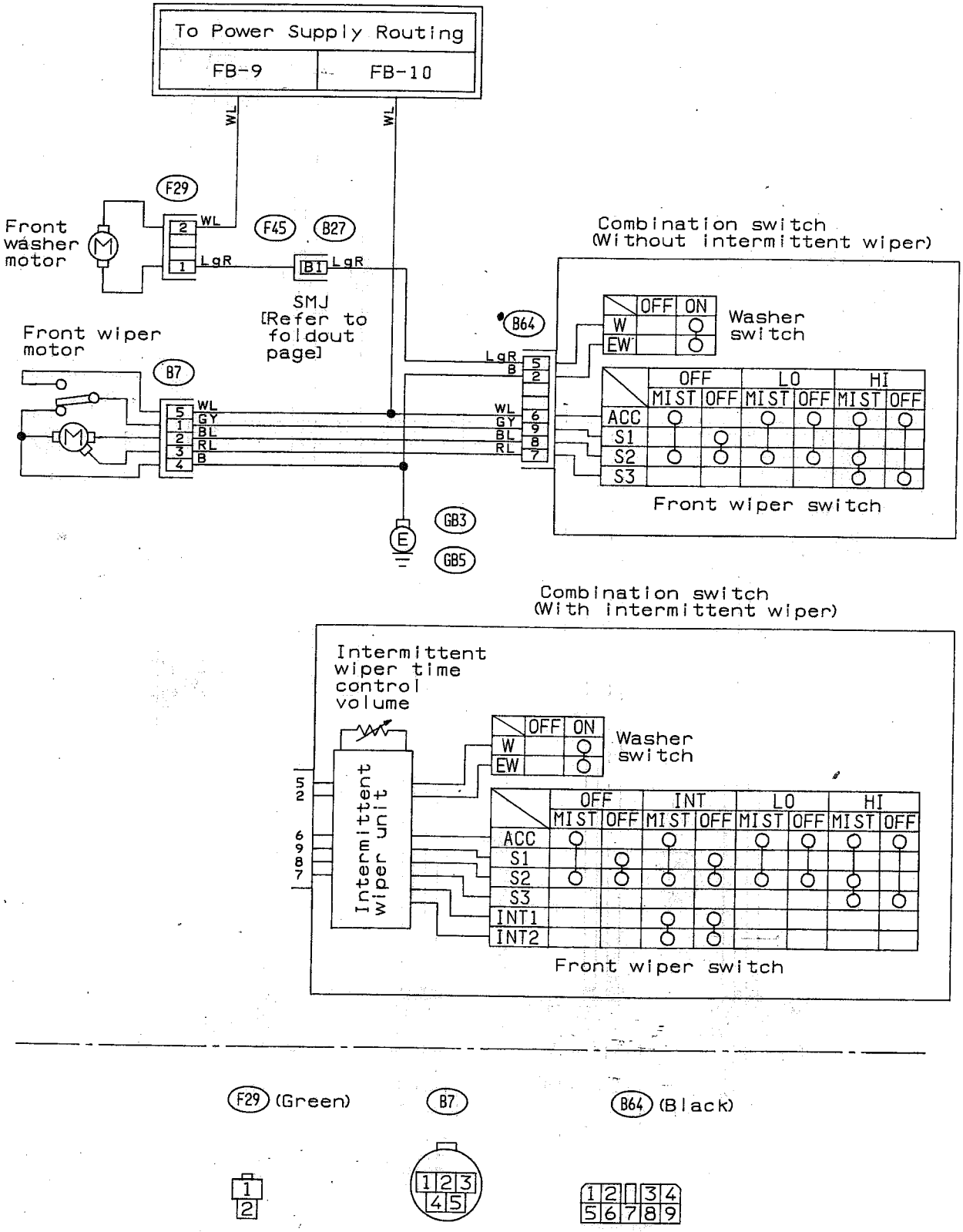
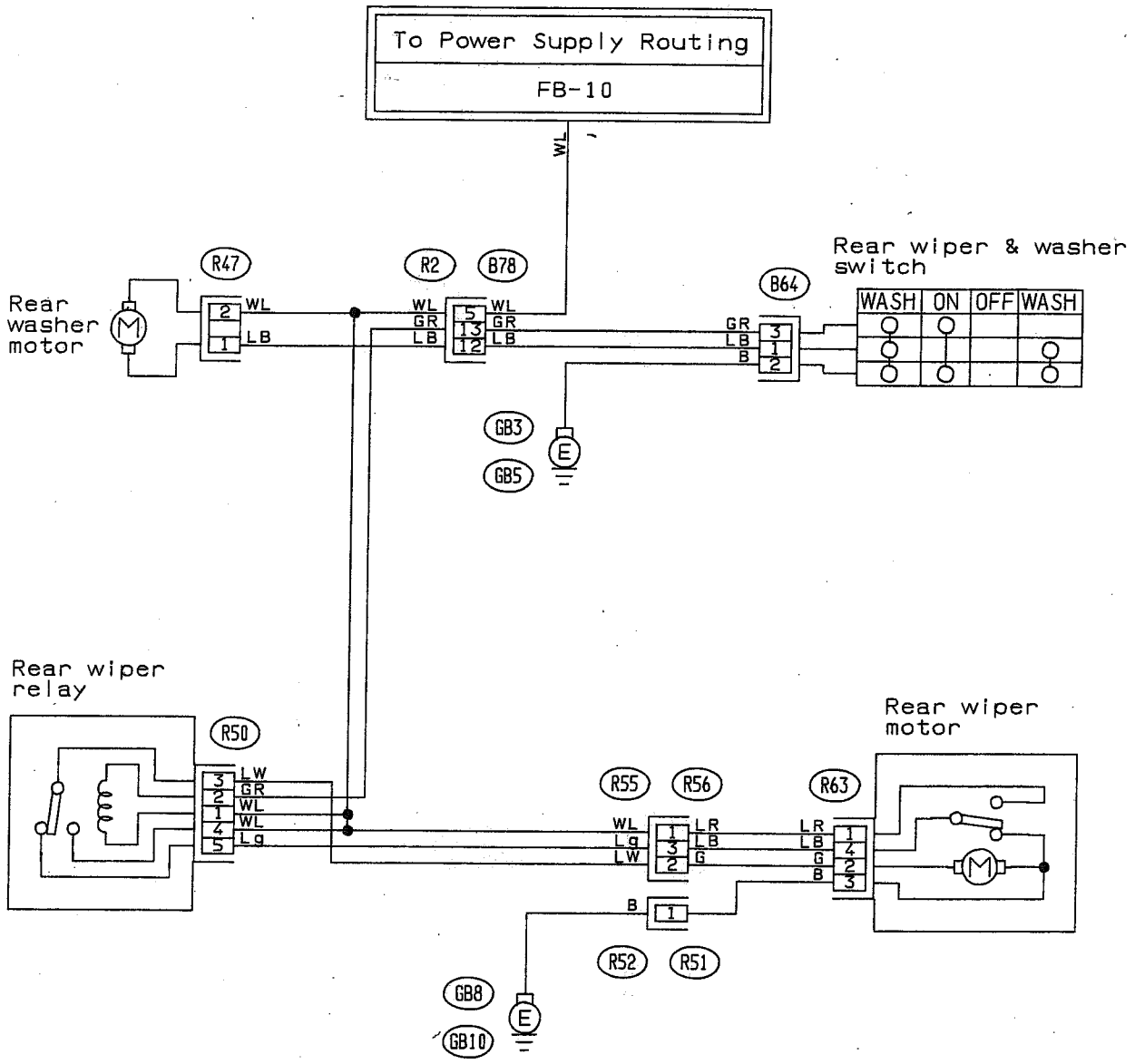


Fig. 42

BU50-01

16. REAR WIPER AND WASHER



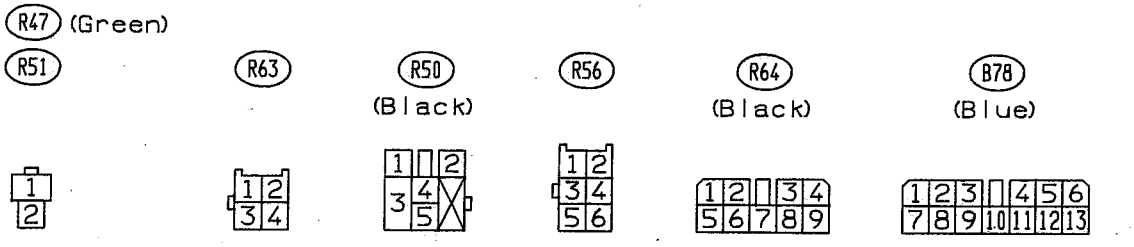


Fig. 43

BU51-01

17. REAR WINDOW DEFOGGER

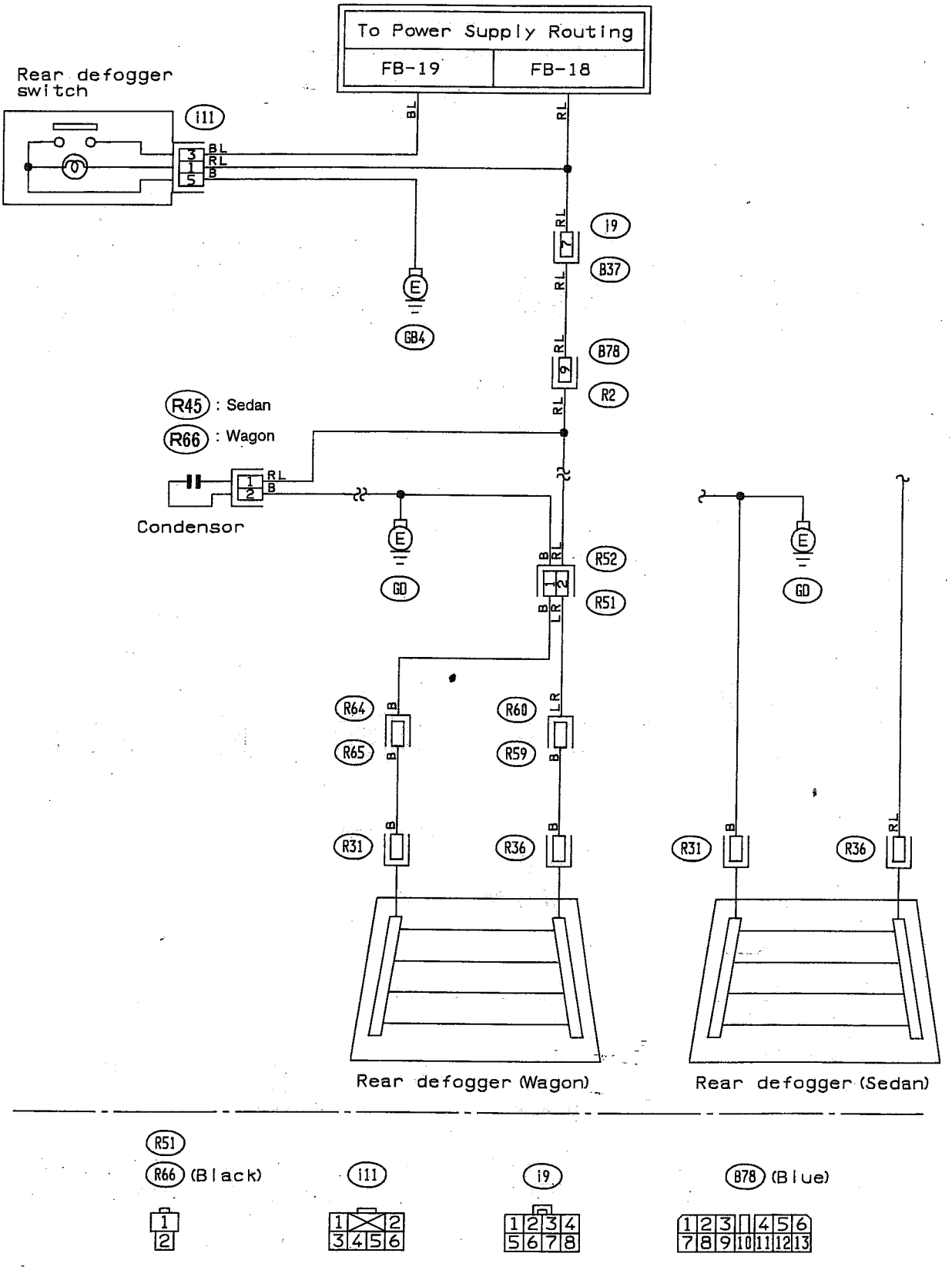
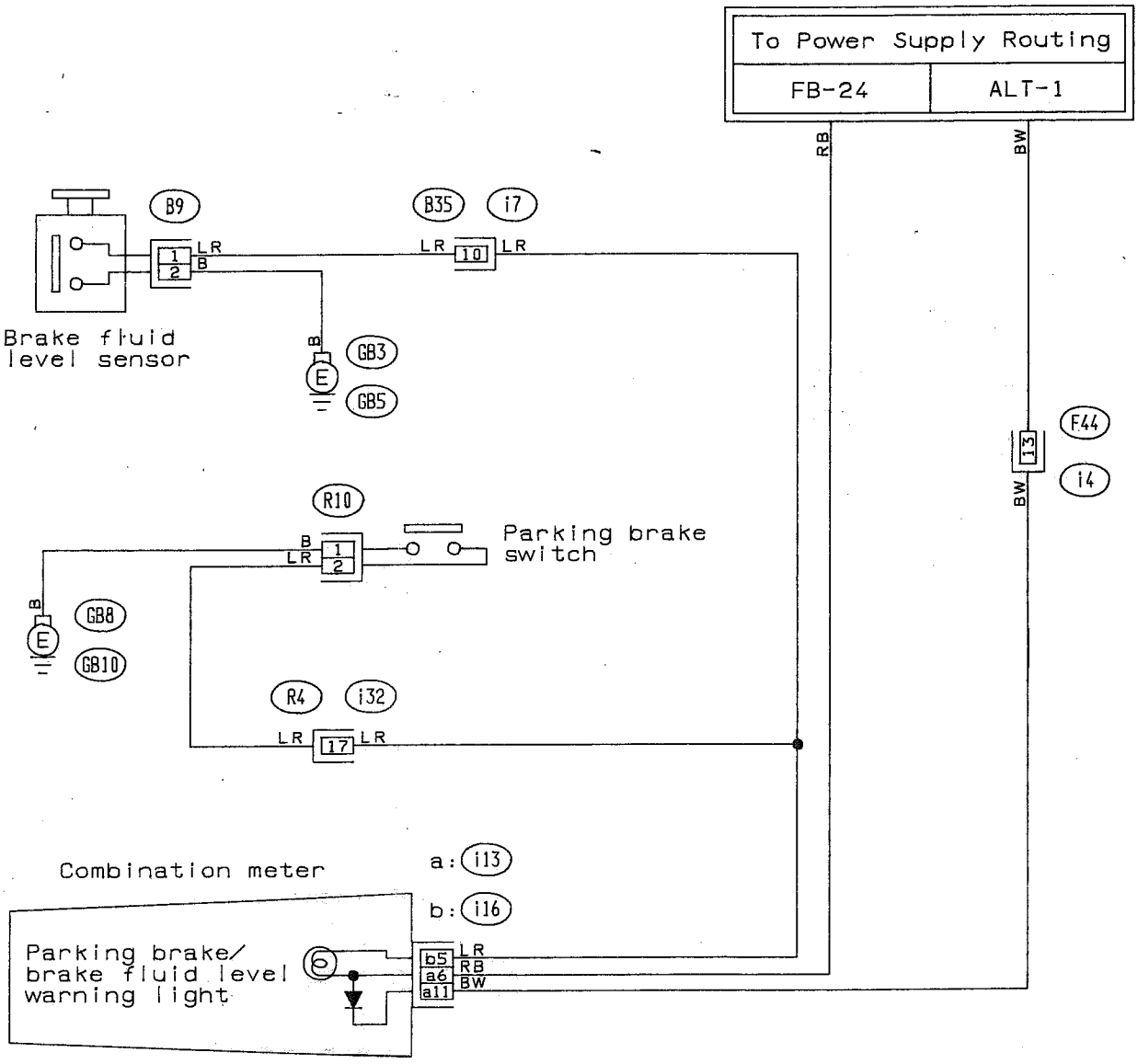


Fig. 44

BU52-01

18. PARKING BRAKE AND BRAKE FLUID LEVEL WARNING



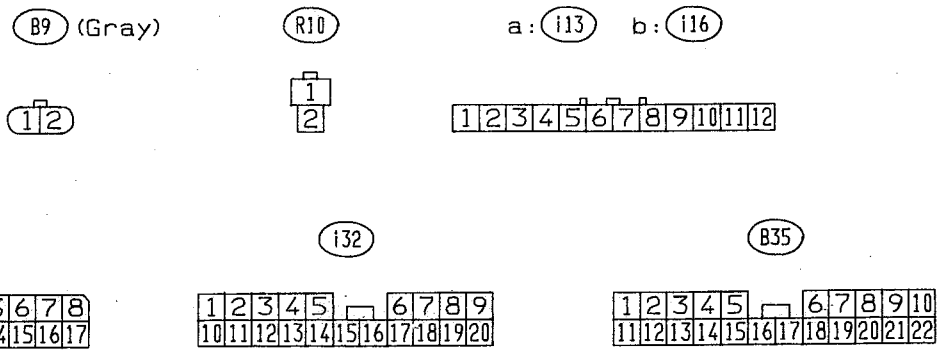
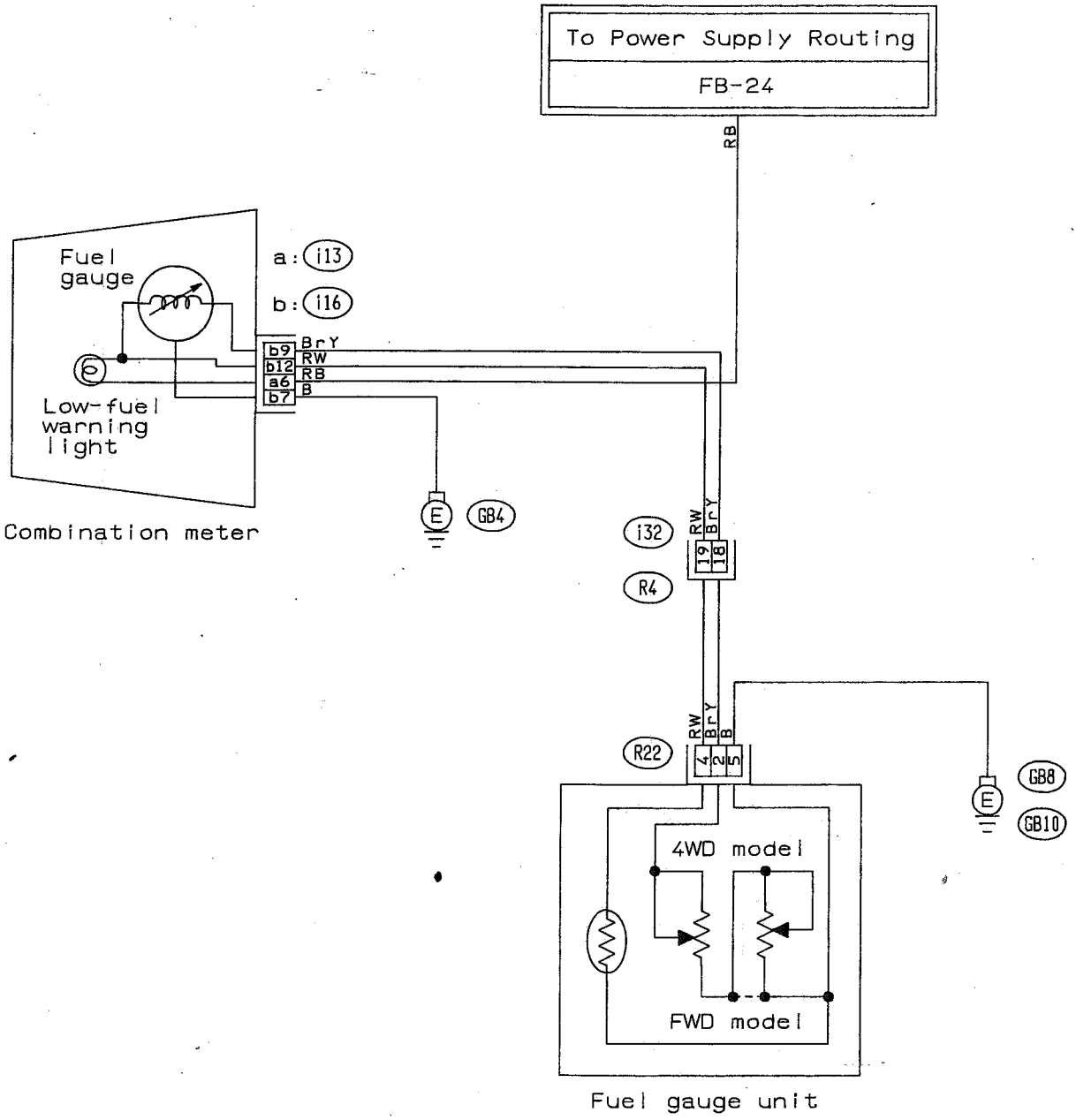


Fig. 45

BU60-01

19. FUEL GAUGE



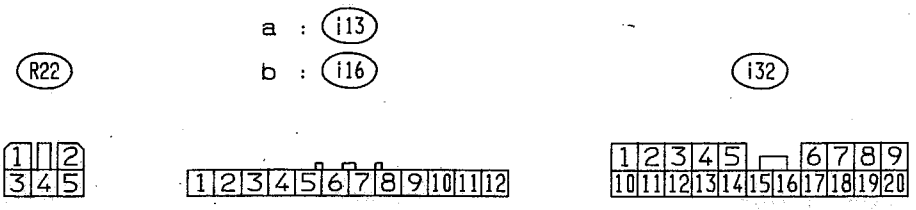


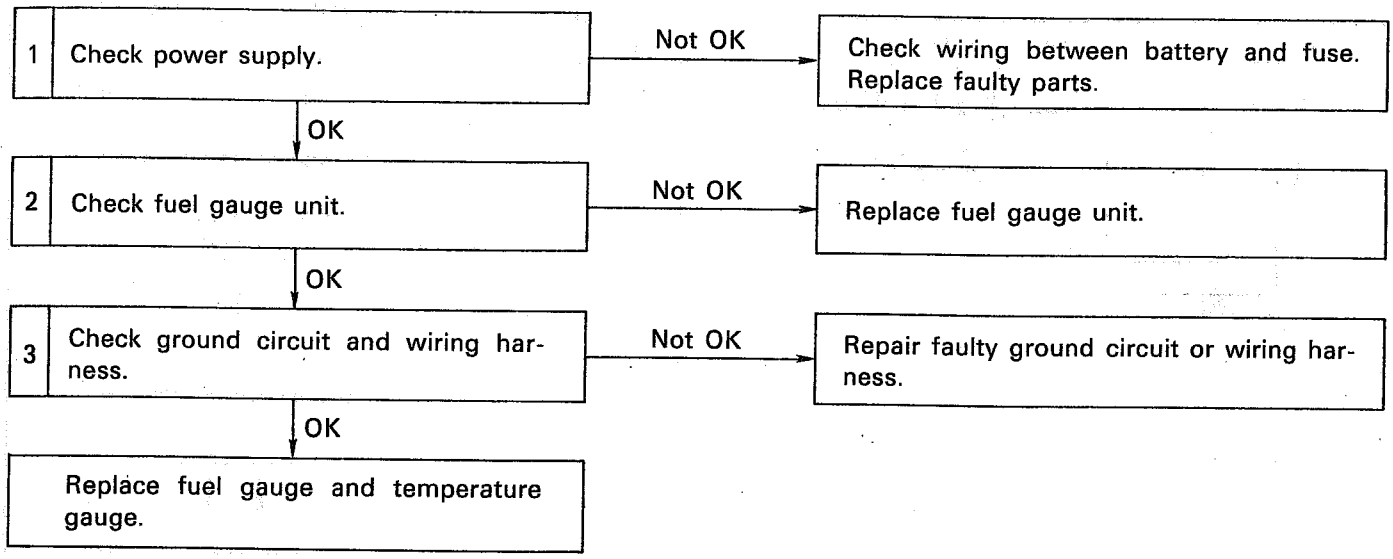
Fig. 46

BU61-01

1. Fuel gauge does not move or does not read correct level.

CONTENTS OF DIAGNOSIS
Power supply, fuel gauge unit, ground and wiring harness

SYMPTOM
- Fuel gauge does not move.
- Fuel gauge does not read correct level.



1 Check power supply.

Turn ignition switch and measure voltage at No. 15 fuse.

Specification: Battery voltage

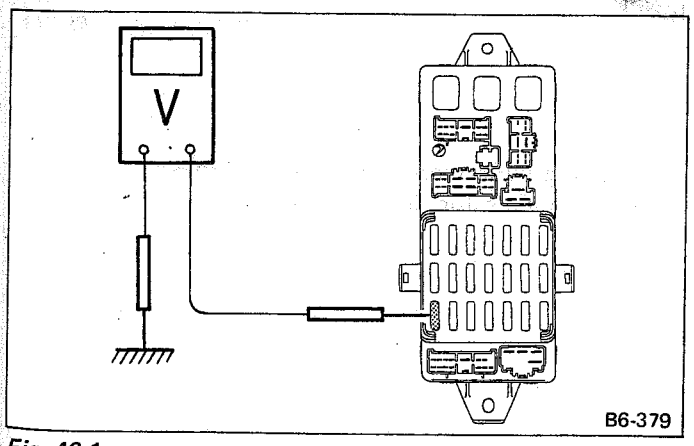


Fig. 46-1

2 Check fuel gauge unit (FWD model).
Measure resistance between terminals, as shown.

Terminal	Condition	Standard resistance ohms
1 – 2	FULL	2.0 – 5.0
	EMPTY	92.0 – 95.0

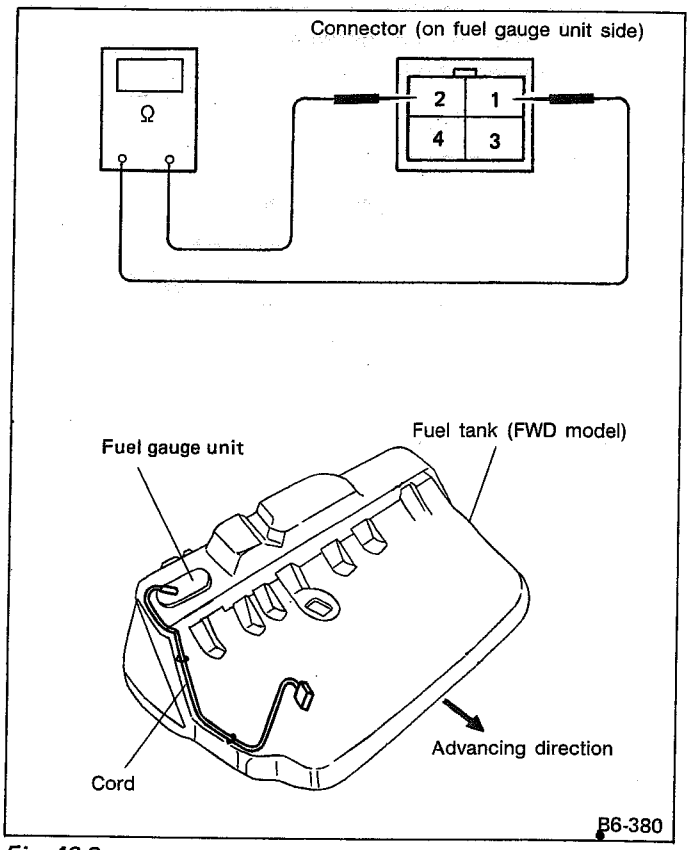


Fig. 46-2

2 Replace fuel gauge unit (4WD model).
Measure resistance between terminals, as shown.

Connector location	Terminal	Condition	Standard resistance ohms
Main unit side	2 – 3	FULL	0.5 – 2.5
		EMPTY	50.0 – 52.0
Sub-unit side	1 – 2	FULL	0.5 – 2.5
		EMPTY	42.0 – 44.0

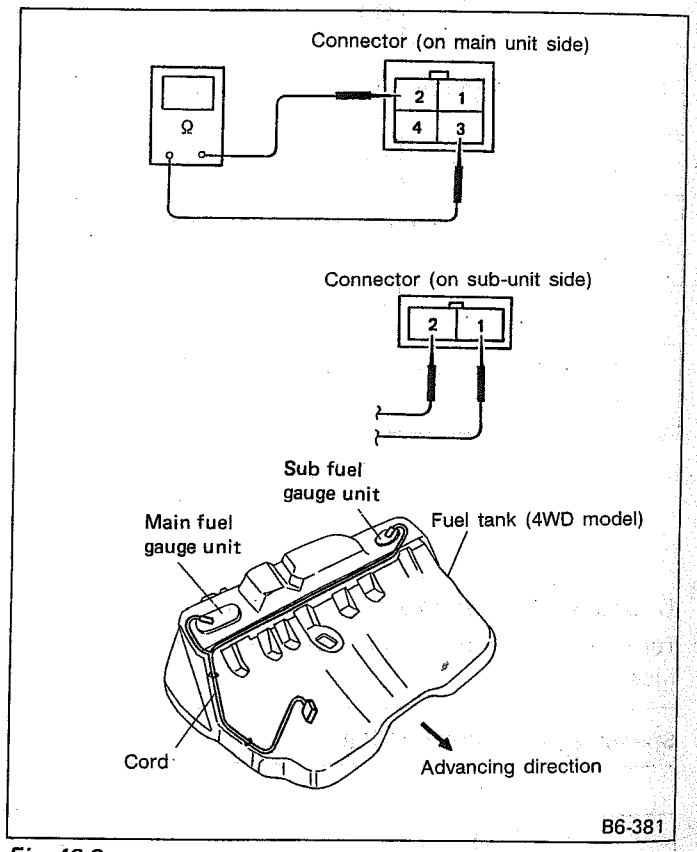


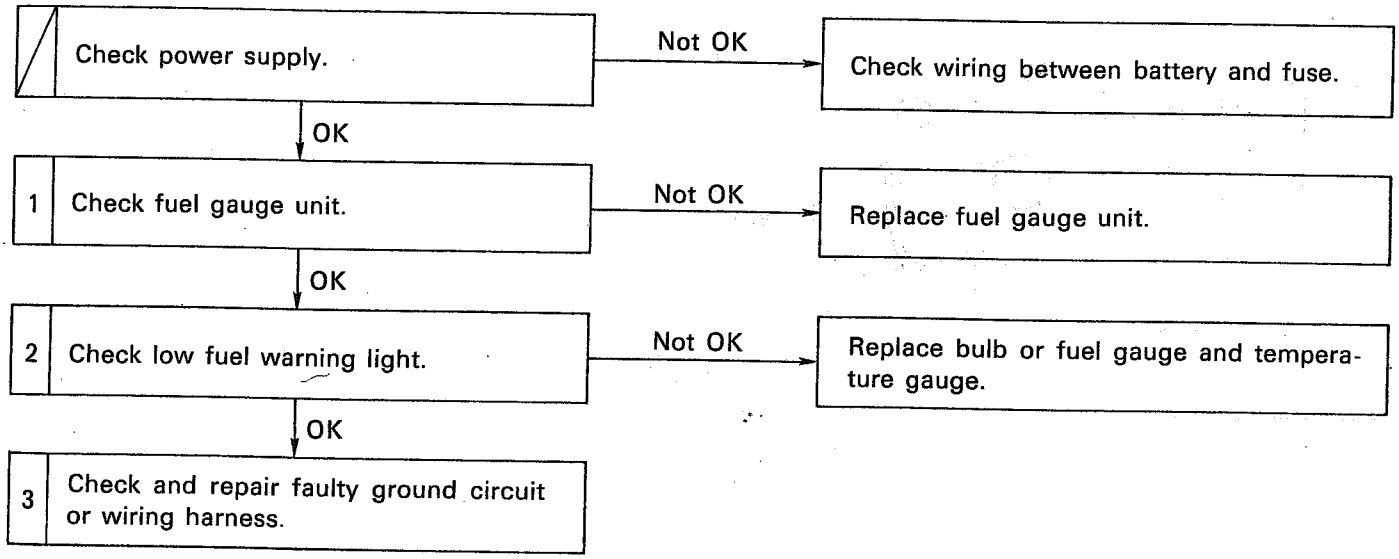
Fig. 46-3

3 Check ground circuit and wiring harness.
Check terminals for discontinuity or shortcircuits.

2. Low fuel warning light does not come on or activates erroneously.

CONTENTS OF DIAGNOSIS
Power supply, fuel gauge unit, low fuel warning light, ground and wiring harness

SYMPTOM
- Warning light does not come on when fuel drops below specified level.
- Warning light comes on when fuel level is above specified level.



1 Check fuel gauge unit.

Measure current flowing through thermistor when voltage is applied to it.

Specification: 60 mA, min. (FULL)
135 mA, min. (EMPTY)

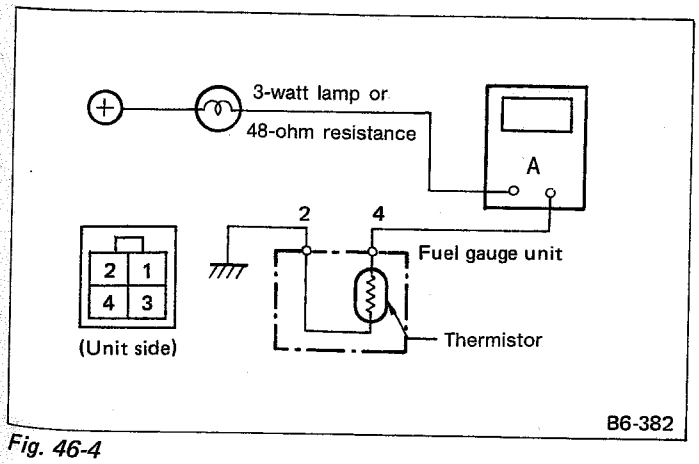


Fig. 46-4

2 Check low fuel warning light.

Check if low fuel warning light comes on (ignition switch ON) when connector (No. R22) terminal (4) is grounded.

Specification: Warning light comes on.

If test checks out 'Not OK,' remove combination meter and ensure that continuity between terminal (12) connector (I16) (on meter side) and terminal (4).

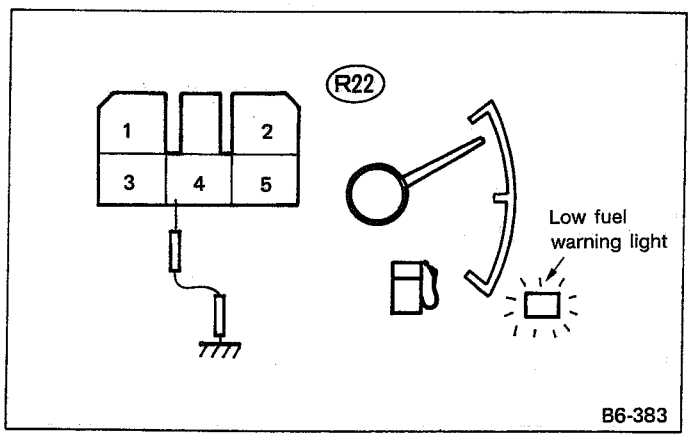
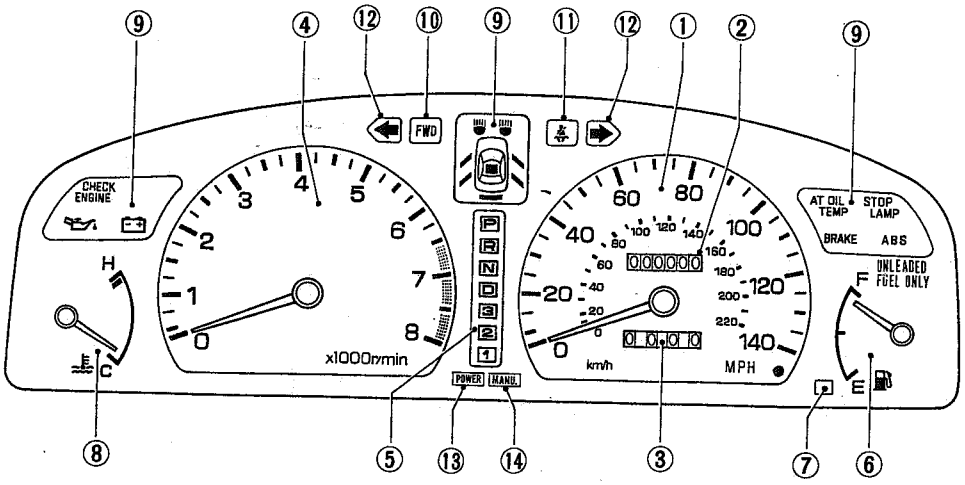


Fig. 46-5

3 Check and repair faulty ground circuit or wiring harness.

Check for discontinuity or shortcircuits between terminals.

20. COMBINATION METER



1 Speedometer
2 Odometer
3 Trip meter
4 Tachometer
5 Shift position indicator
6 Fuel gauge
7 Low fuel warning light
8 Temperature gauge
9 Warning and indicator light
10 FWD warning light
11 Seat belt warning light
12 Turn signal indicator light
13 Power indicator light
14 Manual indicator light

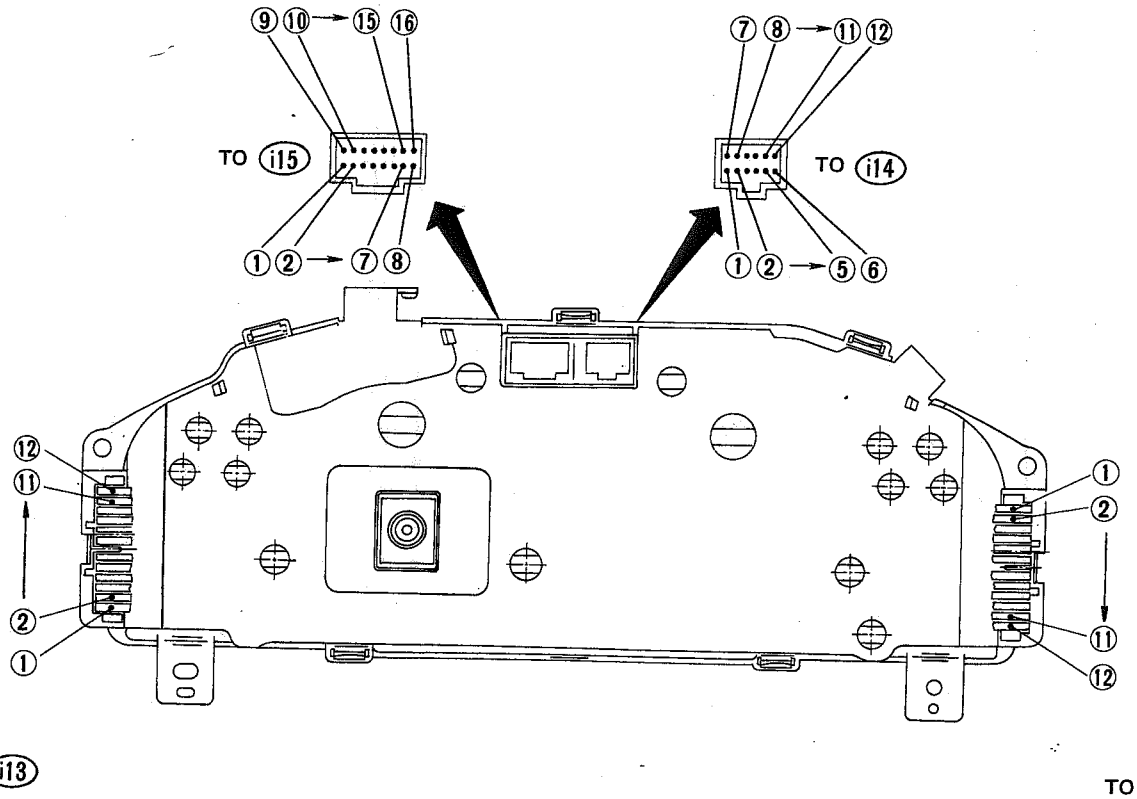


Fig. 47

B6-360

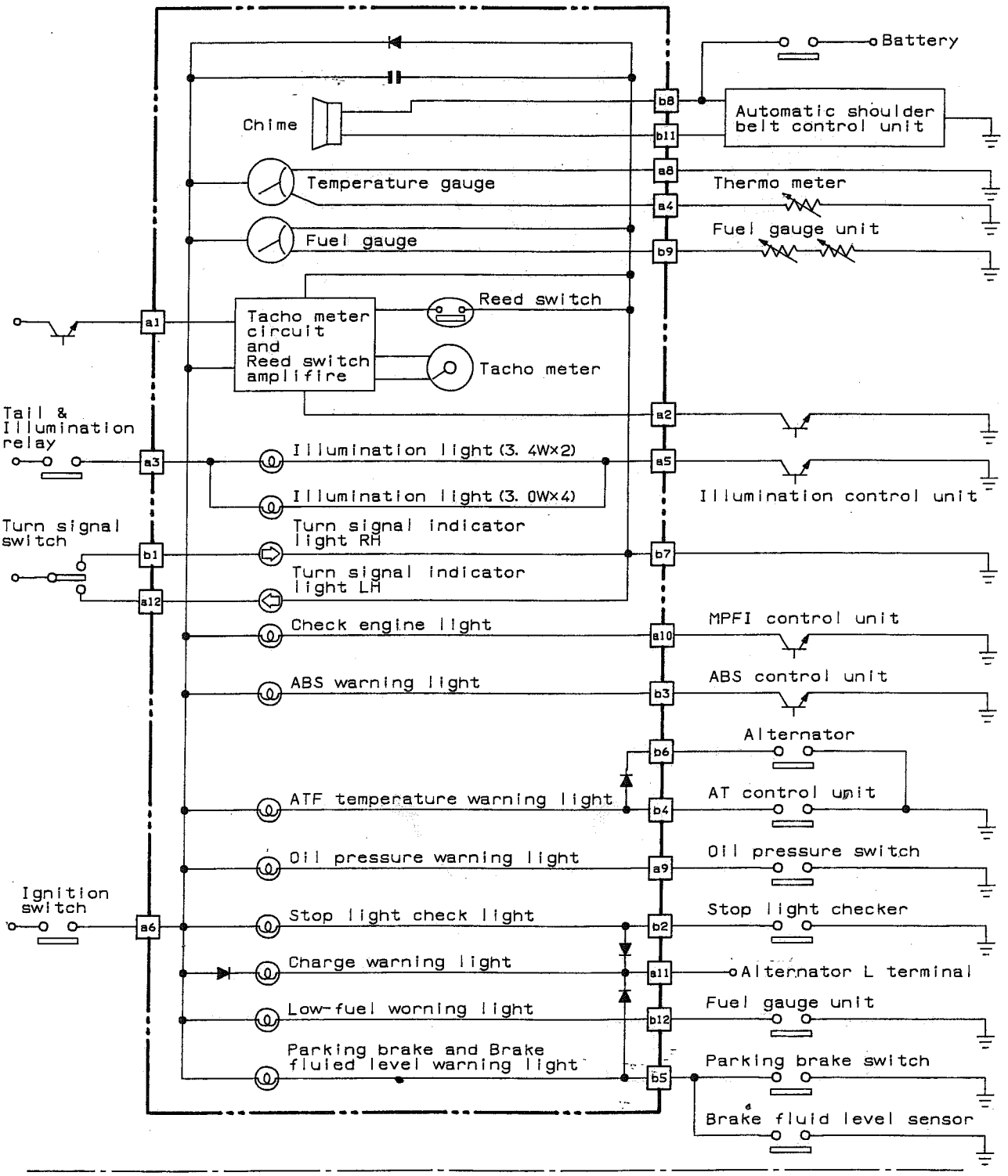
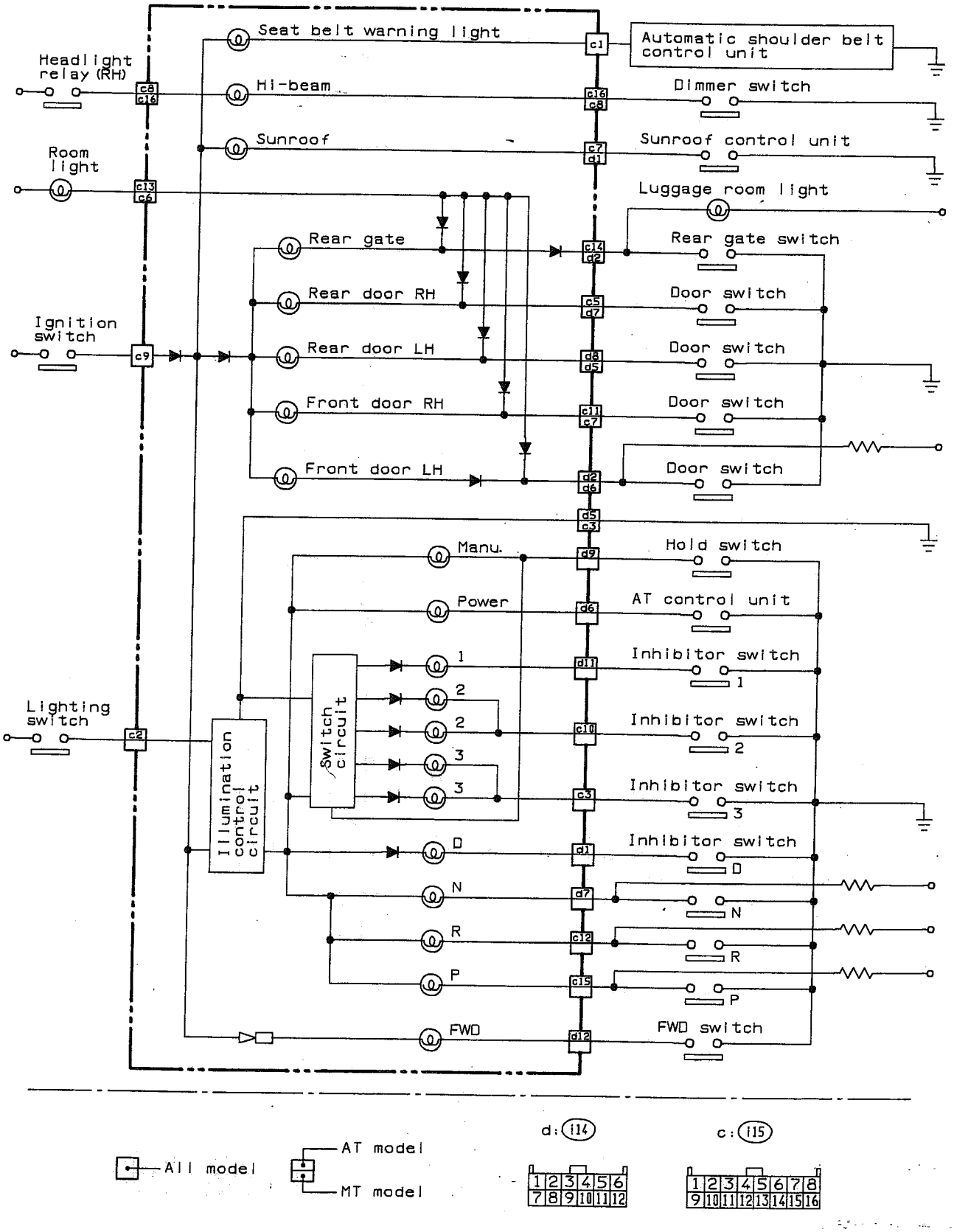


Fig. 47-1

BU-65-01A


Seat belt warning light
Automatic shoulder belt control unit
Headlight relay (RH)
Hi-beam
Dimmer switch
Sunroof
Sunroof control unit
Room light
Luggage room light
Rear gate
Rear gate switch
Rear door RH
Door switch
Ignition switch
Rear door LH
Door switch
Front door RH
Door switch
Front door LH
Door switch
Manu.
Hold switch
Power
AT control unit
1
Inhibitor switch
1
2
2
Inhibitor switch
2
3
3
Inhibitor switch
3
Lighting switch
Illumination control circuit
Switch circuit
D
Inhibitor switch
D
N
N
R
R
P
P
FWD
FWD switch
All model
AT model
MT model
d: i14
c: i15

BU65-01B

21. OIL PRESSURE AND TEMPERATURE GAUGE

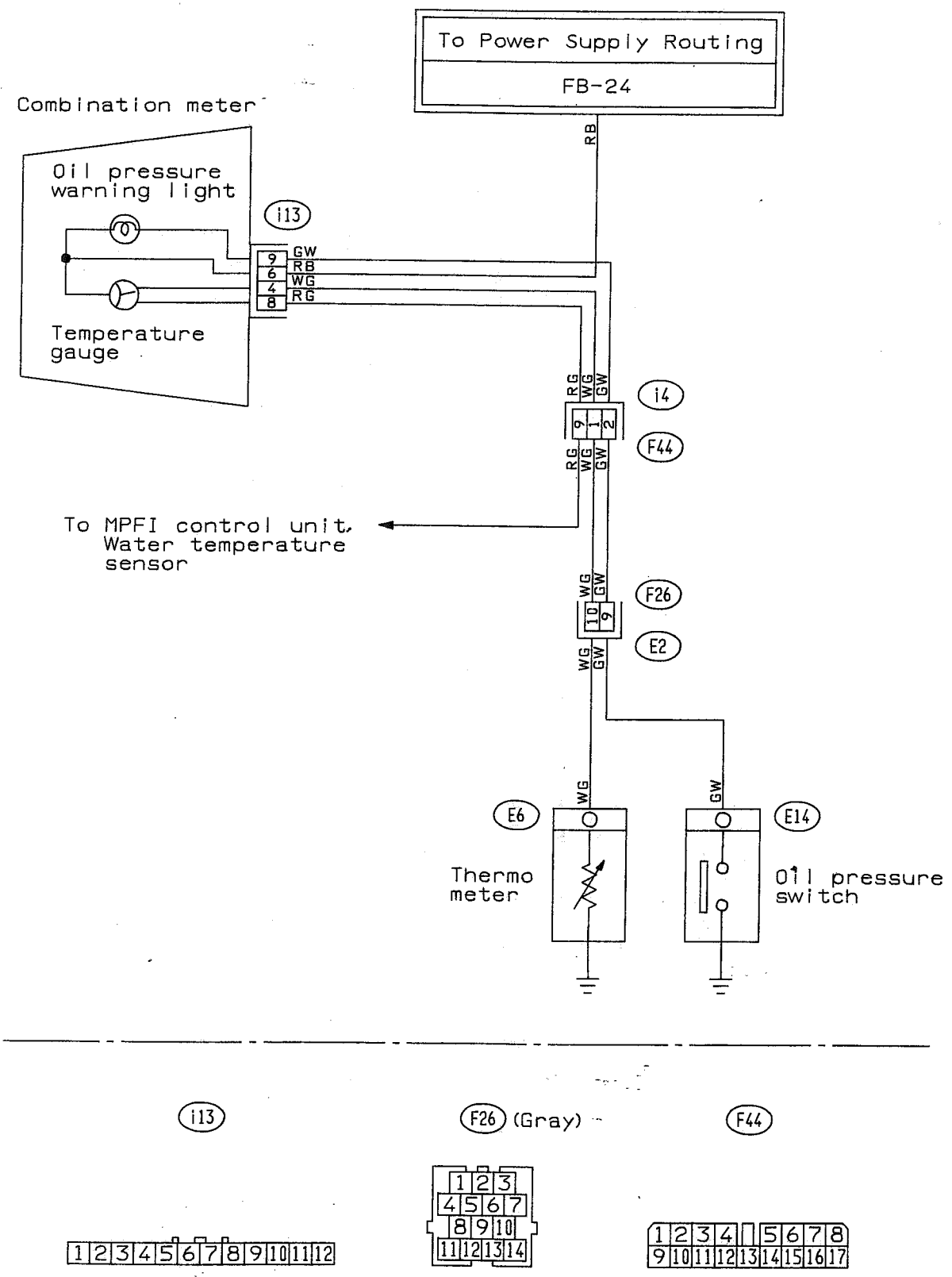


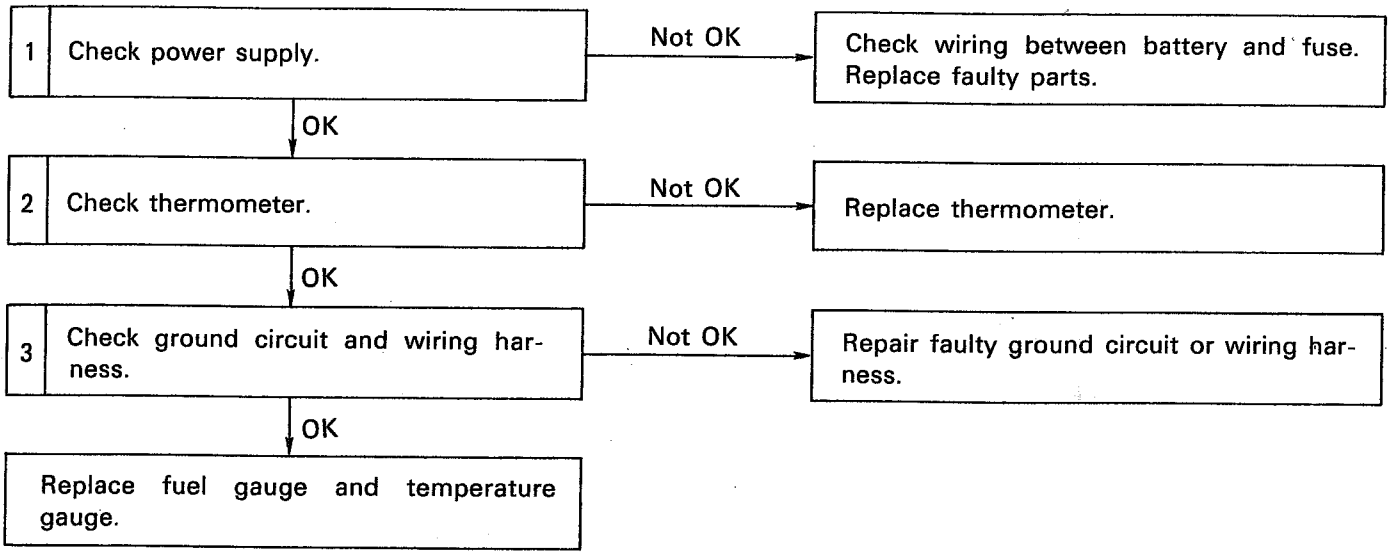
Fig. 48

BU66-01

Thermometer does not operate or indicate correct reading.

CONTENTS OF DIAGNOSIS
Power supply, thermometer and wiring harness

SYMPTOM
Thermometer does not operate.
Thermometer does not indicate correct reading.



1 Check power supply.

Turn ignition switch ON, and check for voltage at No. 15 fuse.

Specification: Battery voltage

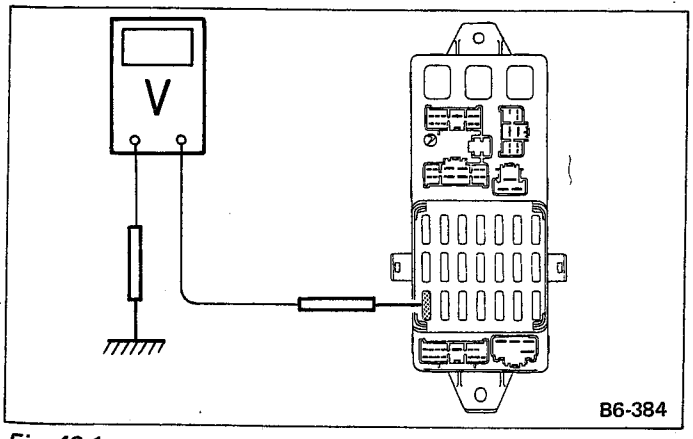


Fig. 48-1

2 Check thermometer.

Measure resistance between thermometer and ground.

Specification:
190 — 260 ohms (50°C, 122°F)
34 — 39 ohms (115°C, 239°F)

a. Be careful since resistance varies with temperature.
b. Resistance ranges from approximately 600 to 870 ohms when measured at a thermometer reading of approximately 20°C (68°F).

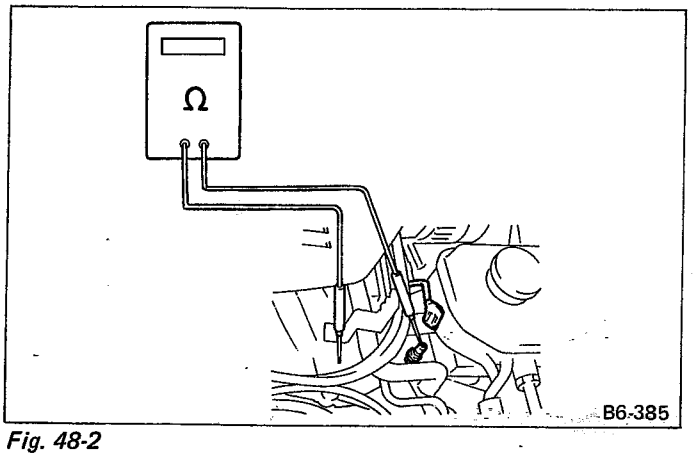


Fig. 48-2

3 Check ground circuit and wiring harness.

Check for open or shorted wiring between terminals.

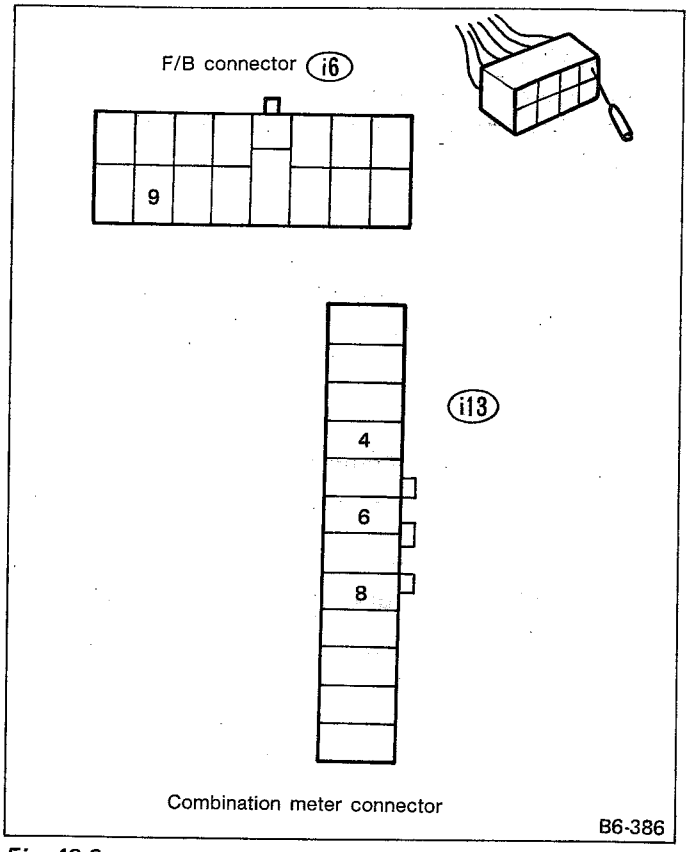


Fig. 48-3

22. POWER WINDOW

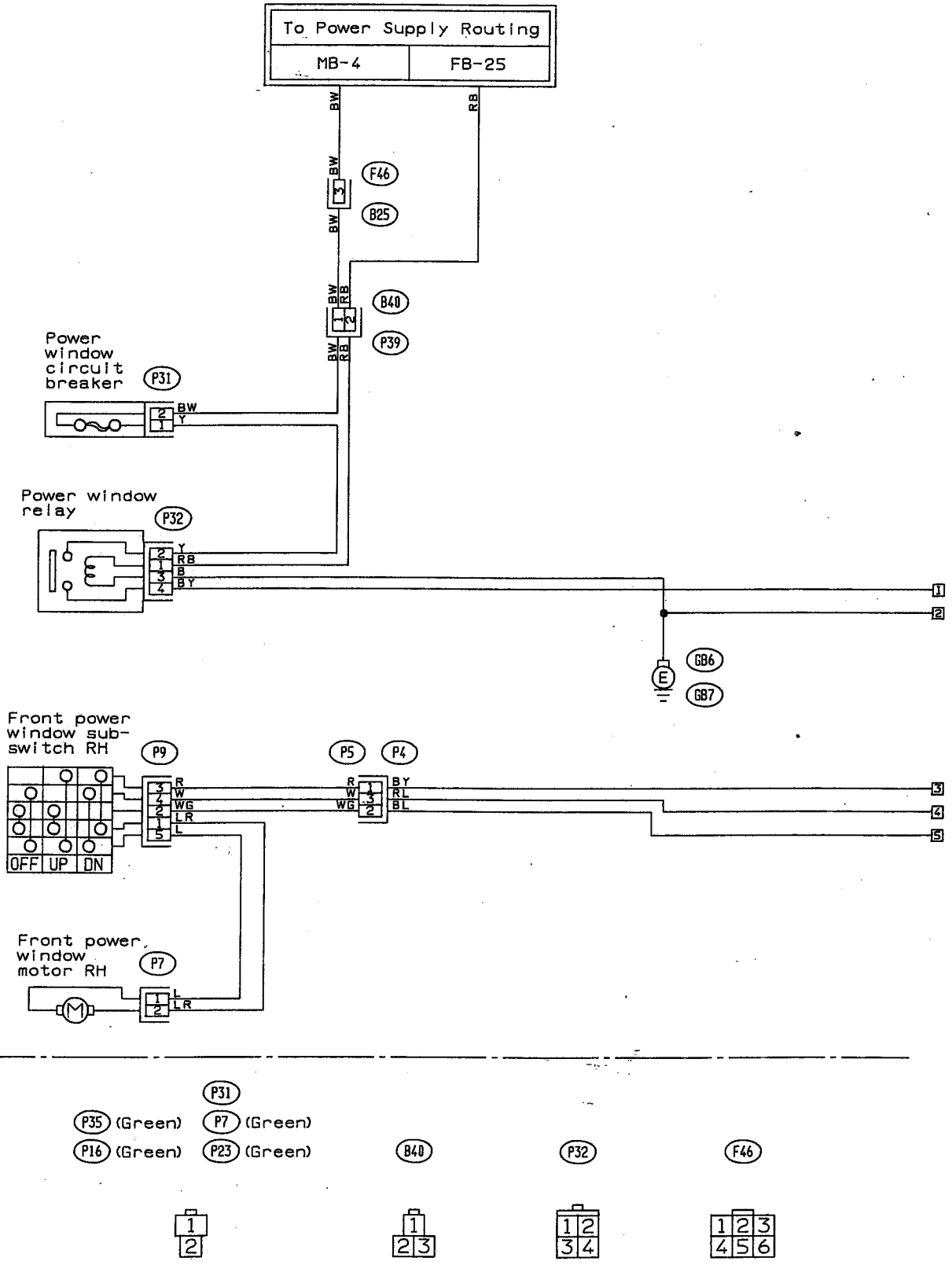
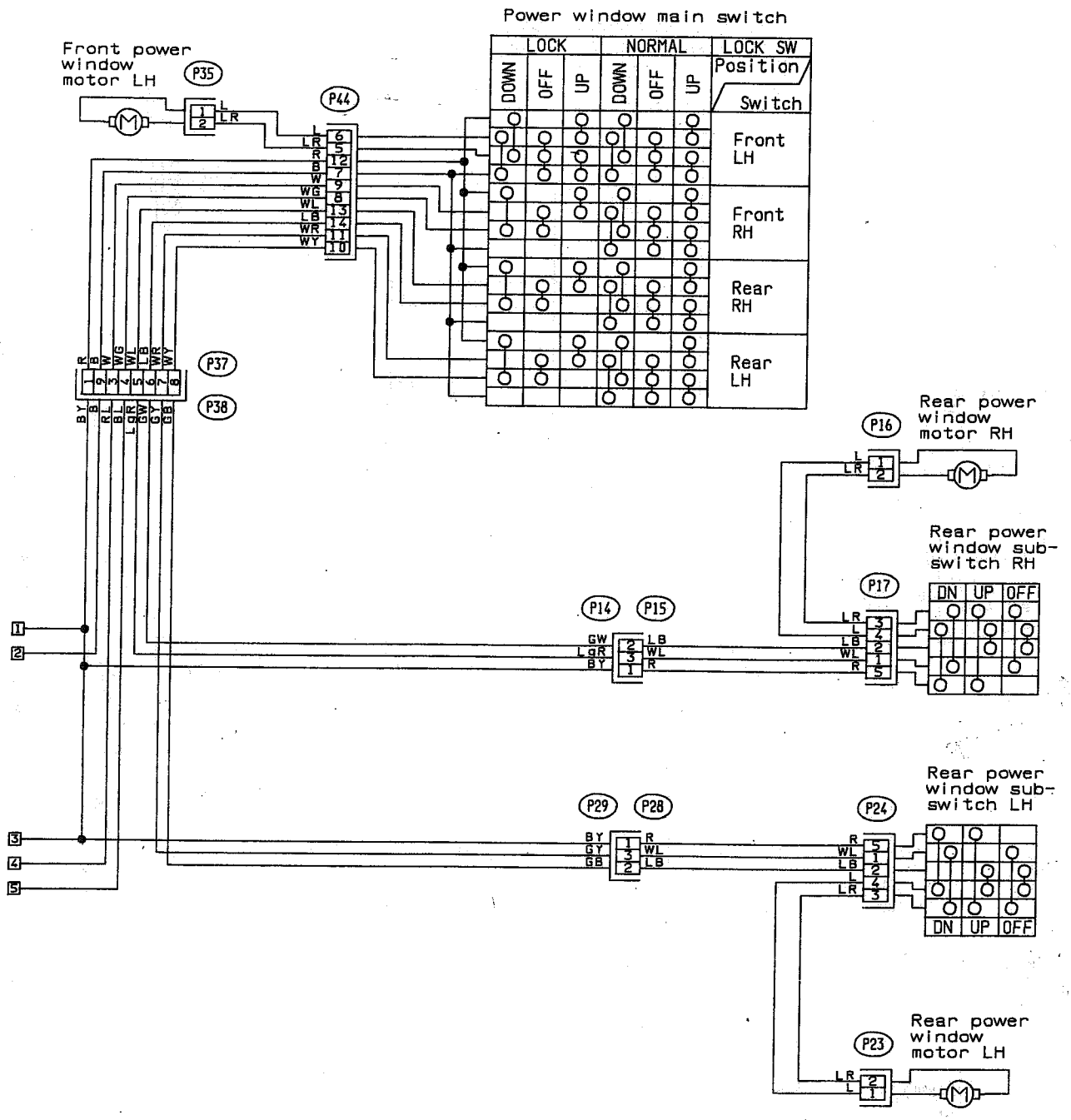
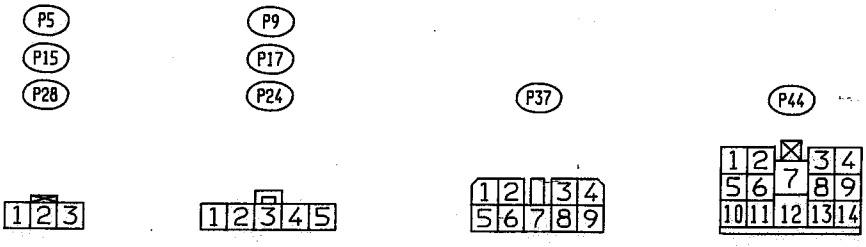


Fig. 49

BU70-01A


Power window main switch
LOCK
NORMAL
LOCK SW
Position
Switch
DOWN
OFF
UP
Front LH
Front RH
Rear RH
Rear LH
Front power window motor LH
Rear power window motor RH
Rear power window sub-switch RH
Rear power window sub-switch LH
Rear power window motor LH
DN
UP
OFF


P5
P15
P28
P9
P17
P24
P37
P44

BU70-01B

23. CRUISE CONTROL

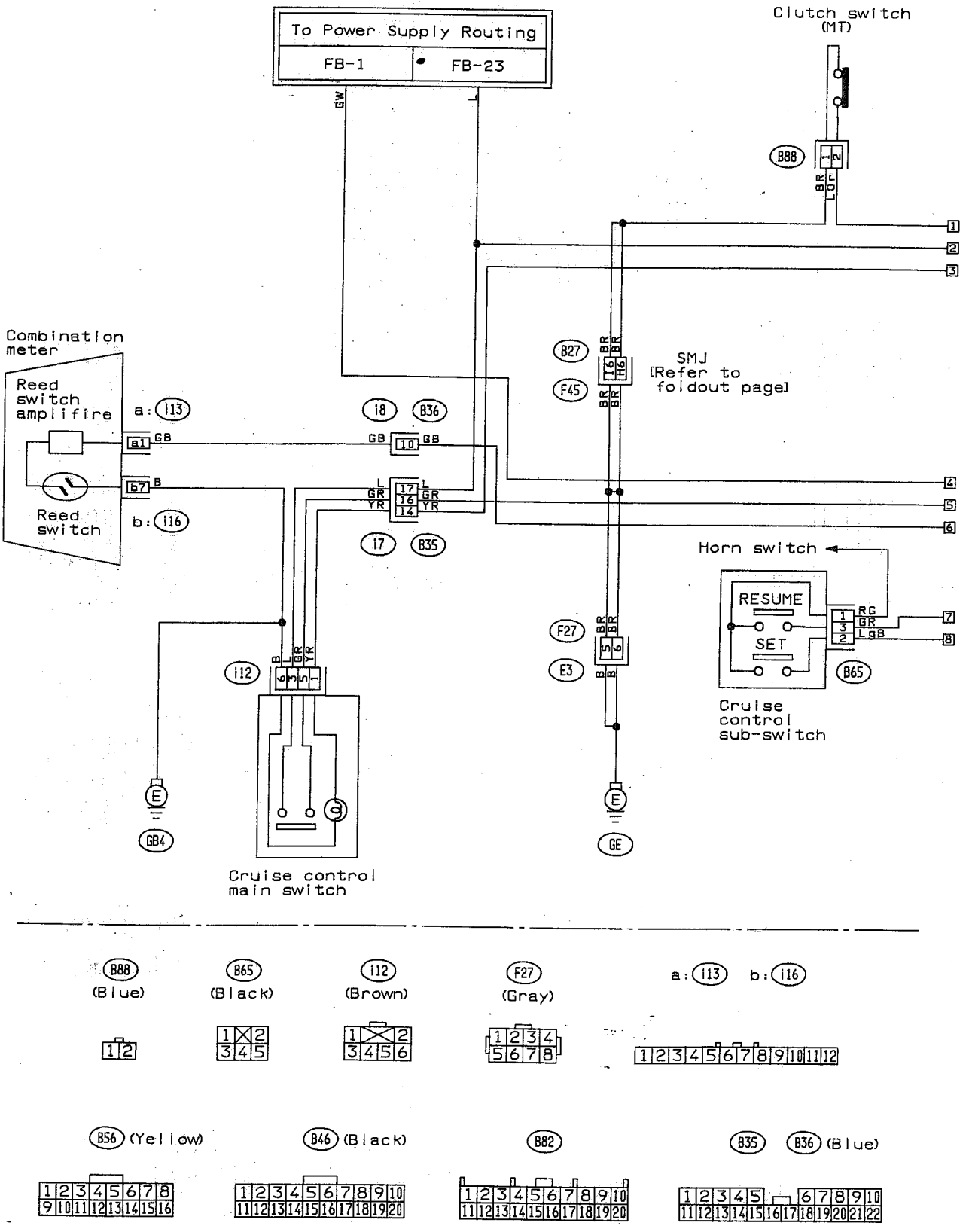
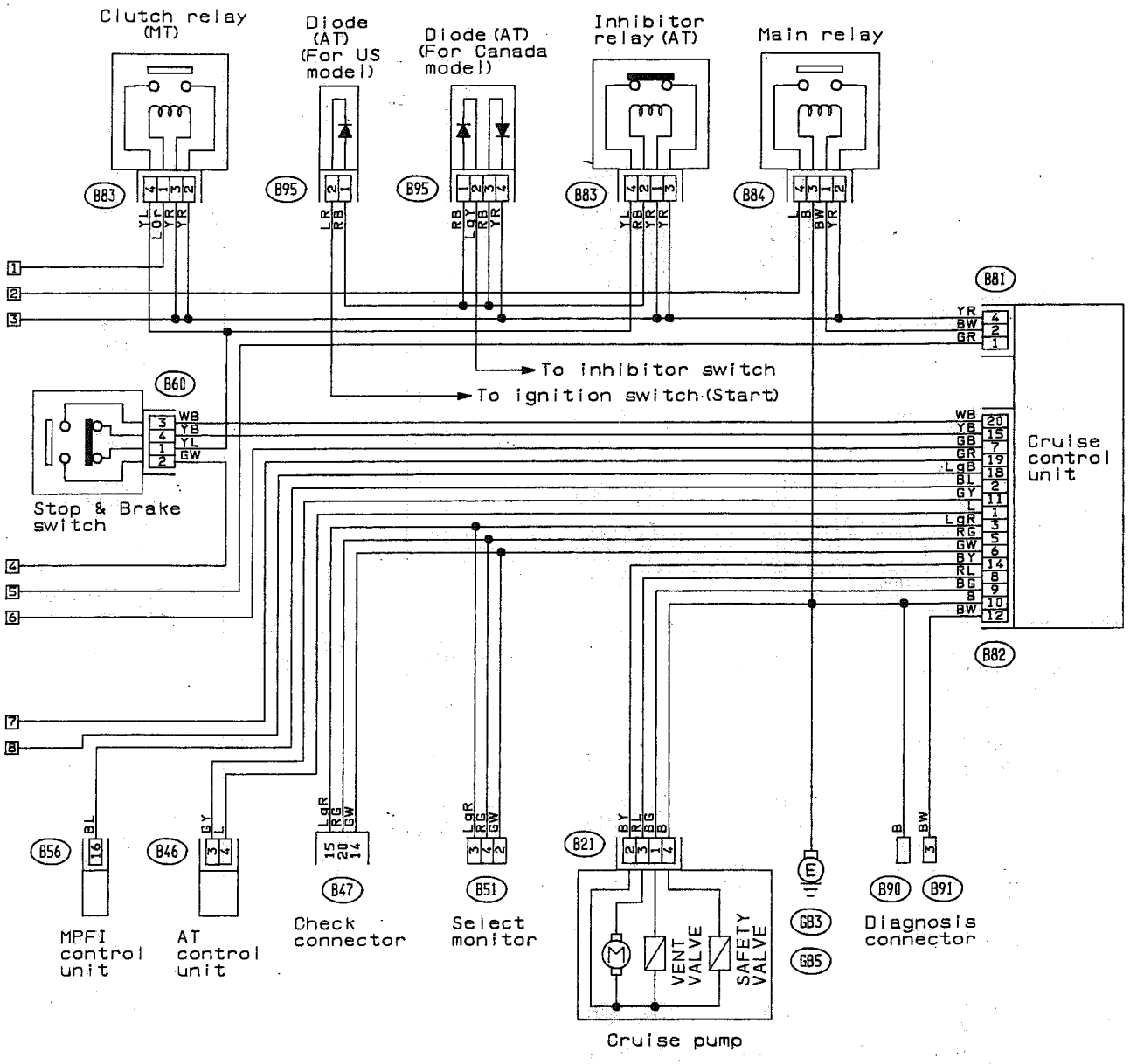
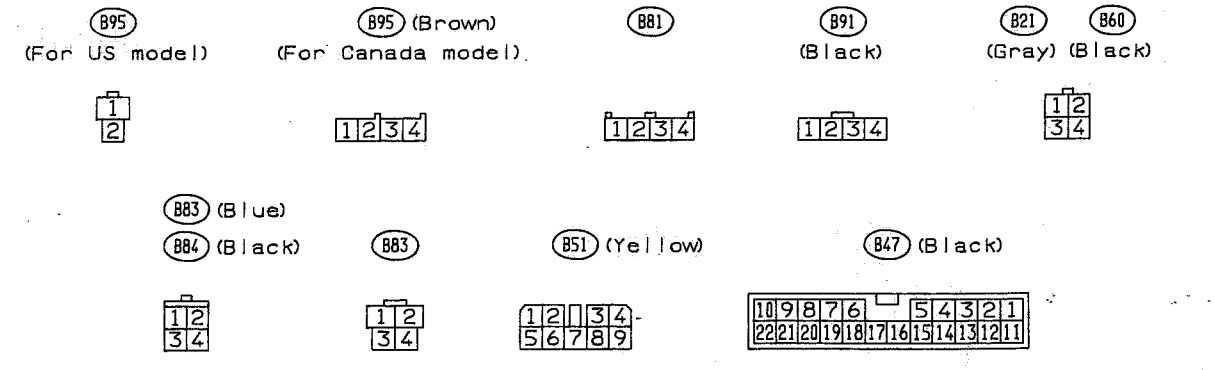


Fig. 50

BU71-01A


Clutch relay (MT)
Diode (AT) (For US model)
Diode (AT) (For Canada model)
Inhibitor relay (AT)
Main relay
B83
B95
B95
B83
B84
B81
B60
To inhibitor switch
To ignition switch (Start)
Stop & Brake switch
Cruise control unit
B82
B56
B46
B47
B51
B21
B90
B91
MPFI control unit
AT control unit
Check connector
Select monitor
VENT VALVE
SAFETY VALVE
G83
G85
Diagnosis connector
Cruise pump


B95 (For US model)
B95 (Brown) (For Canada model)
B81
B91 (Black)
B21 (Gray)
B60 (Black)
B83 (Blue)
B84 (Black)
B83
B51 (Yellow)
B47 (Black)

BU71-01B

24. DOOR LOCK

U.S. MODEL

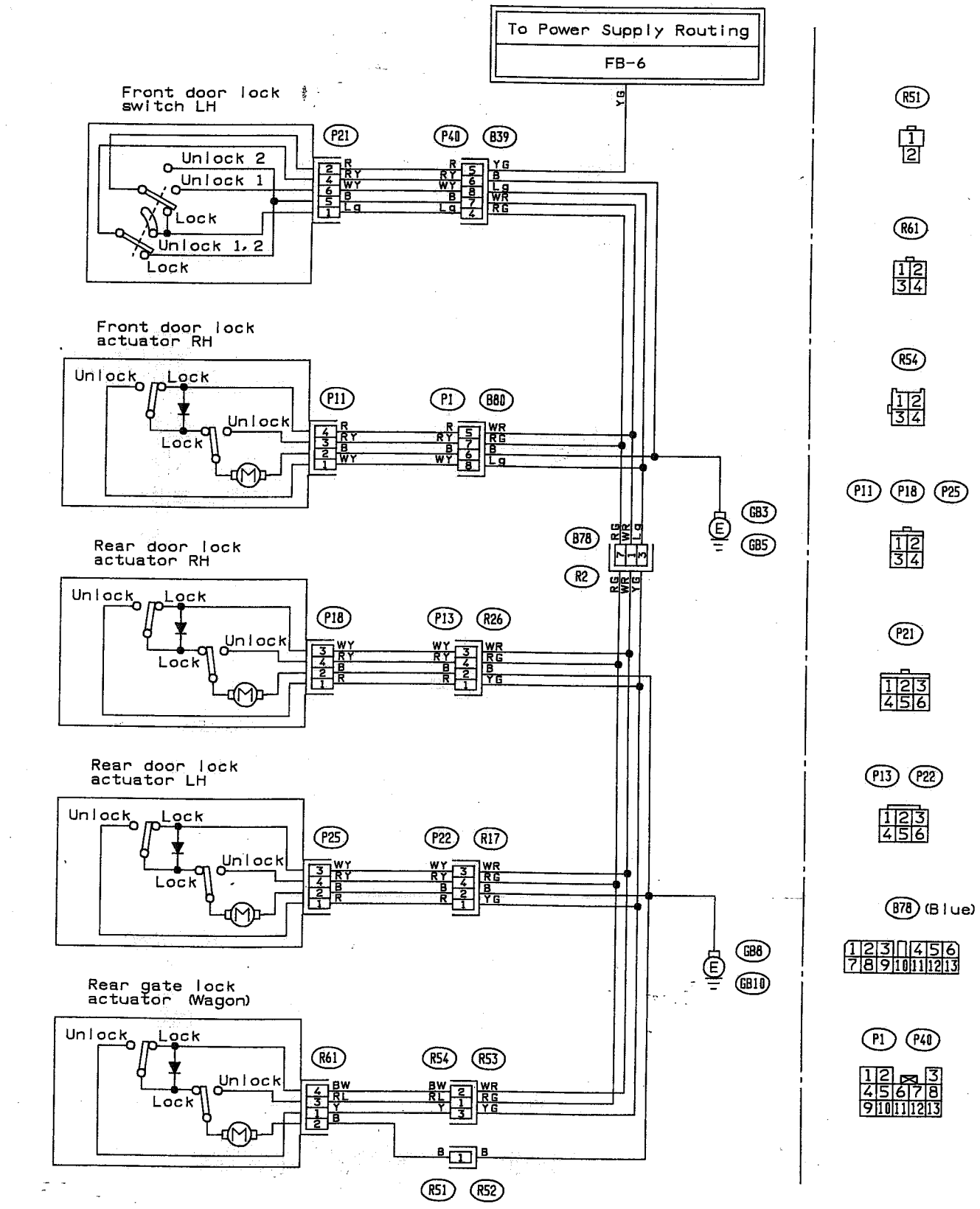


Fig. 51

BU73-01

CANADA MODEL

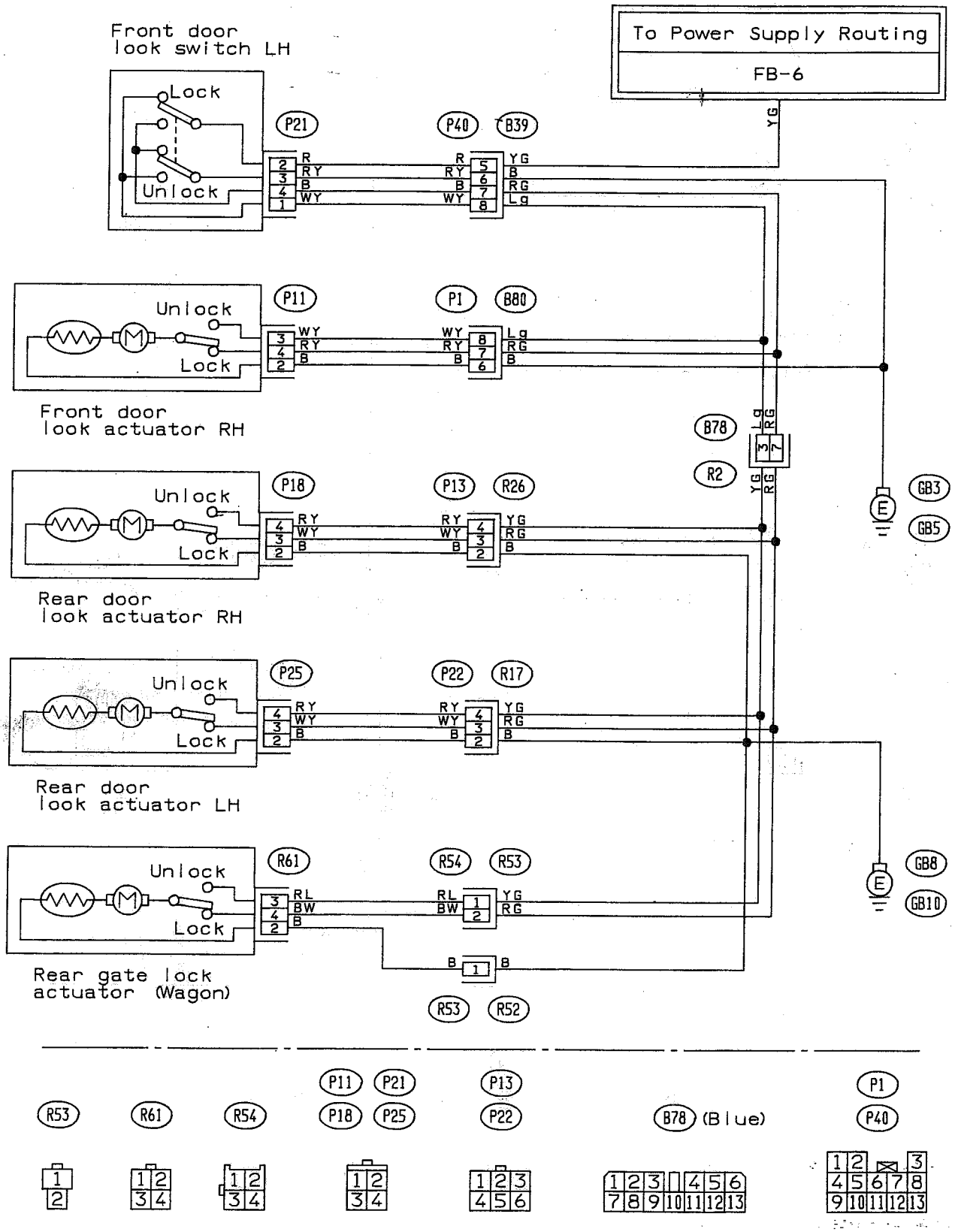


Fig. 52

BC73-01

25. HORN AND CIGARETTE LIGHTER

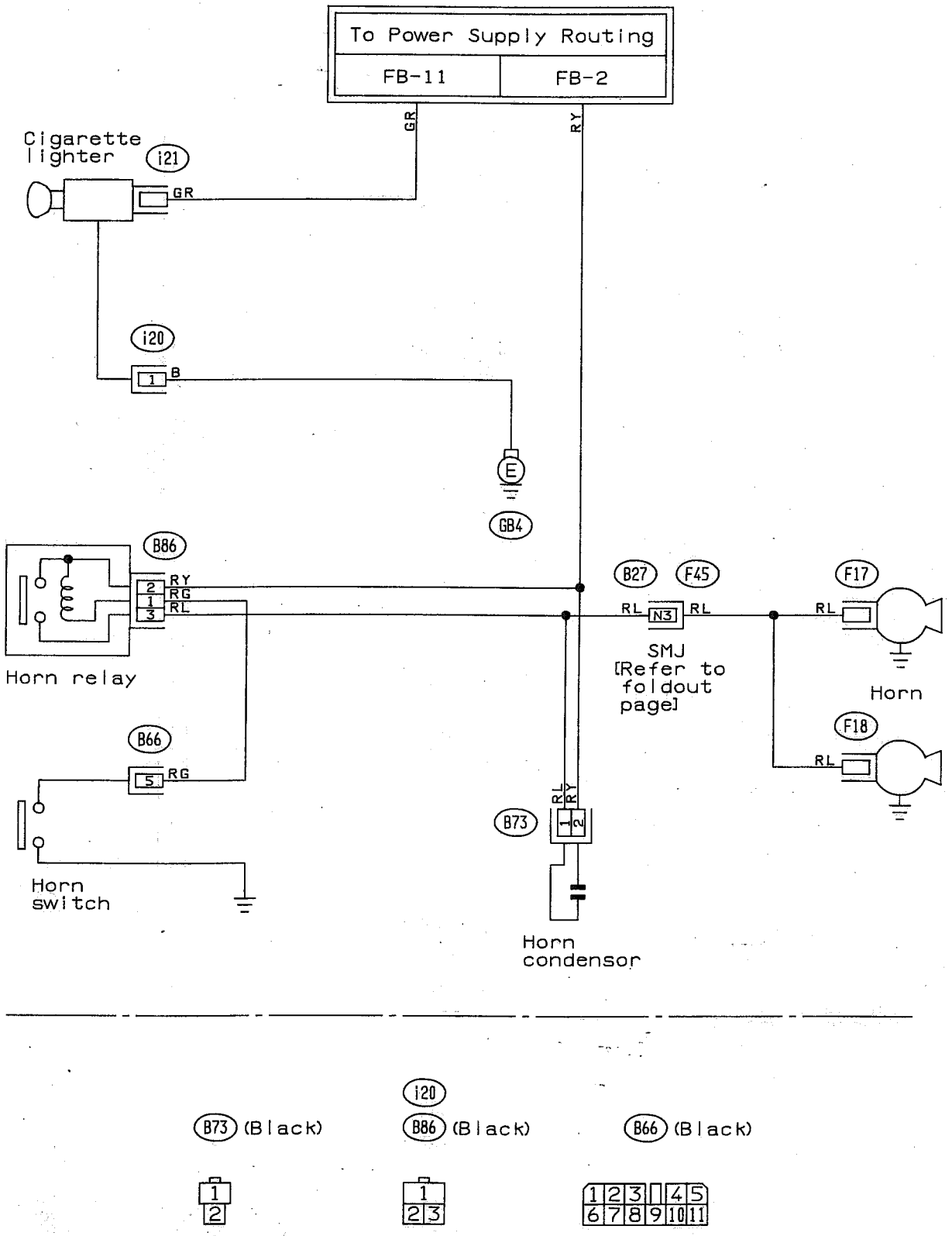
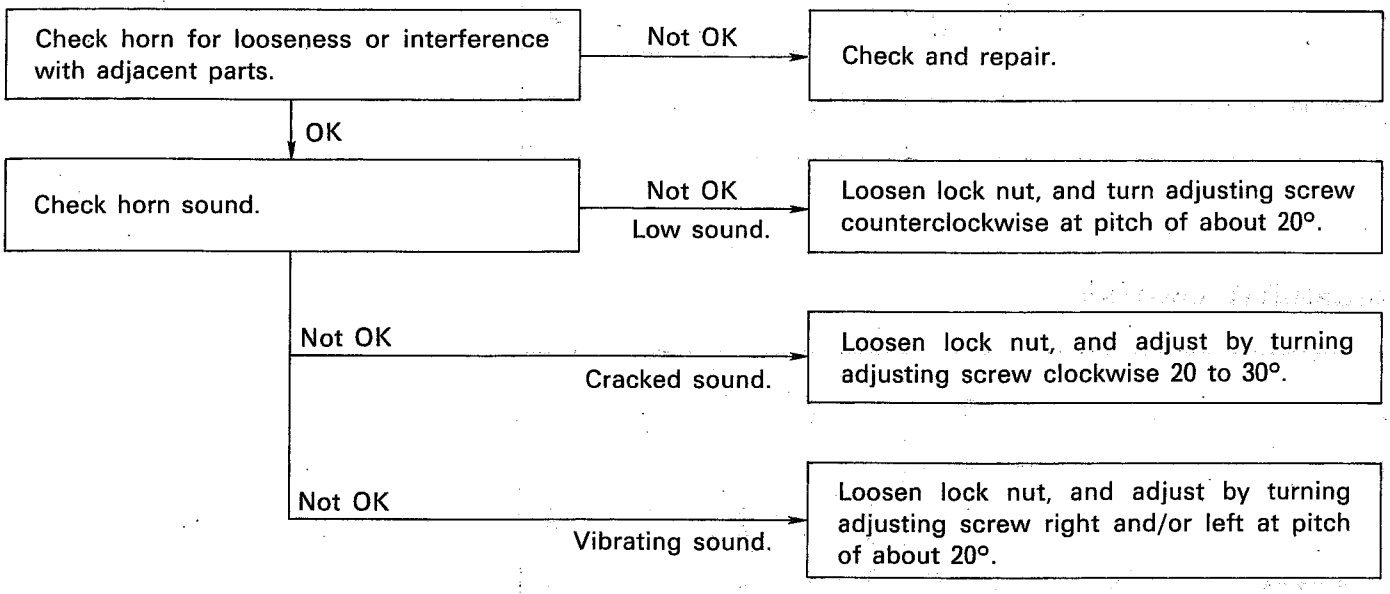


Fig. 53

BU74-01

Horn sounds improperly.

CONTENTS OF DIAGNOSIS	SYMPTOM
Horn sound	Low horn sound Splitting sound Vibrating sound



a. Before checking horn sound, start the engine so that battery is being charged.
b. Tighten loose lock nut, if necessary.

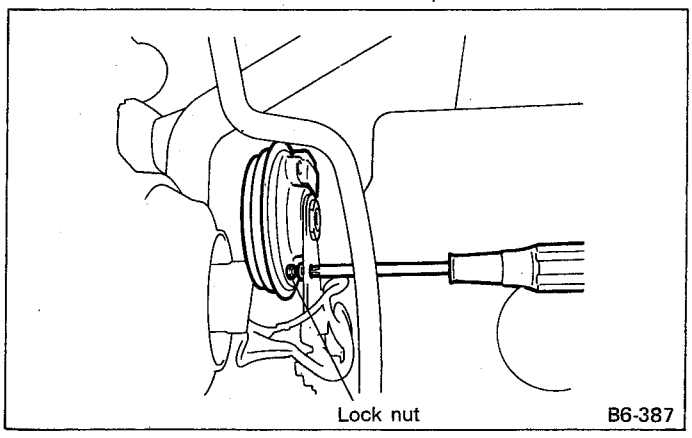


Fig. 53-1

HORN

Item to check / Symptom	M/B		F/B					
	SBF-3	FL 1.25	Fuse No. 12	Horn relay	Horn	Horn switch	Ground	Wiring harness
Horn does not sound.	○	○	○	○	○	○	○	○

CIGARETTE LIGHTER

Item to check / Symptom	M/B			F/B				
	SBF-4	FL 1.25	Ignition switch	Fuse No. 3	Cigarette lighter	Bulb	Ground	Wiring harness
Lighter element does not glow.	○	○	○	○	○		○	○
Light does not come on.						○		○

26. SUNROOF·SPOT LIGHT AND VANITY MIRROR

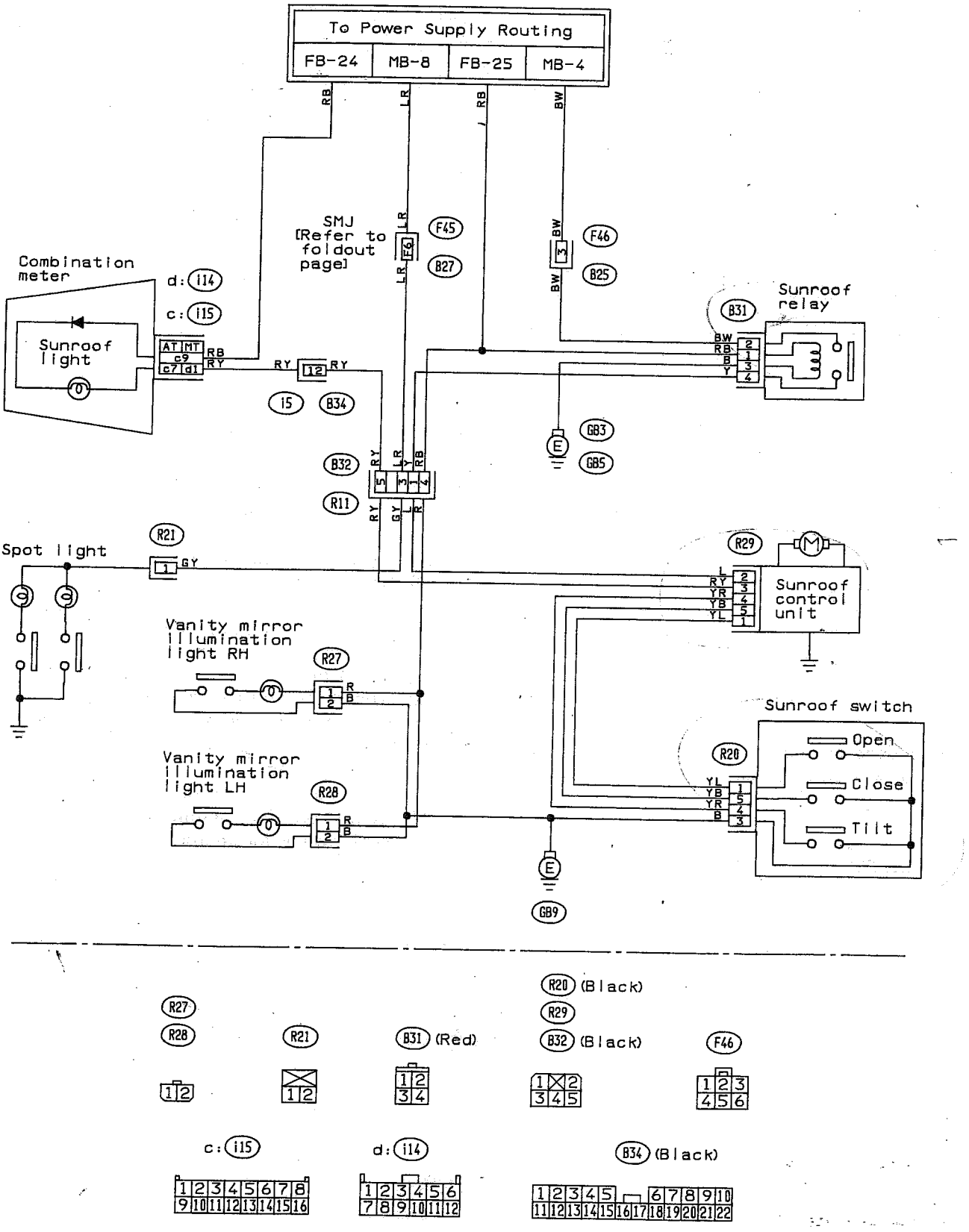


Fig. 54

BU75-01

6-3

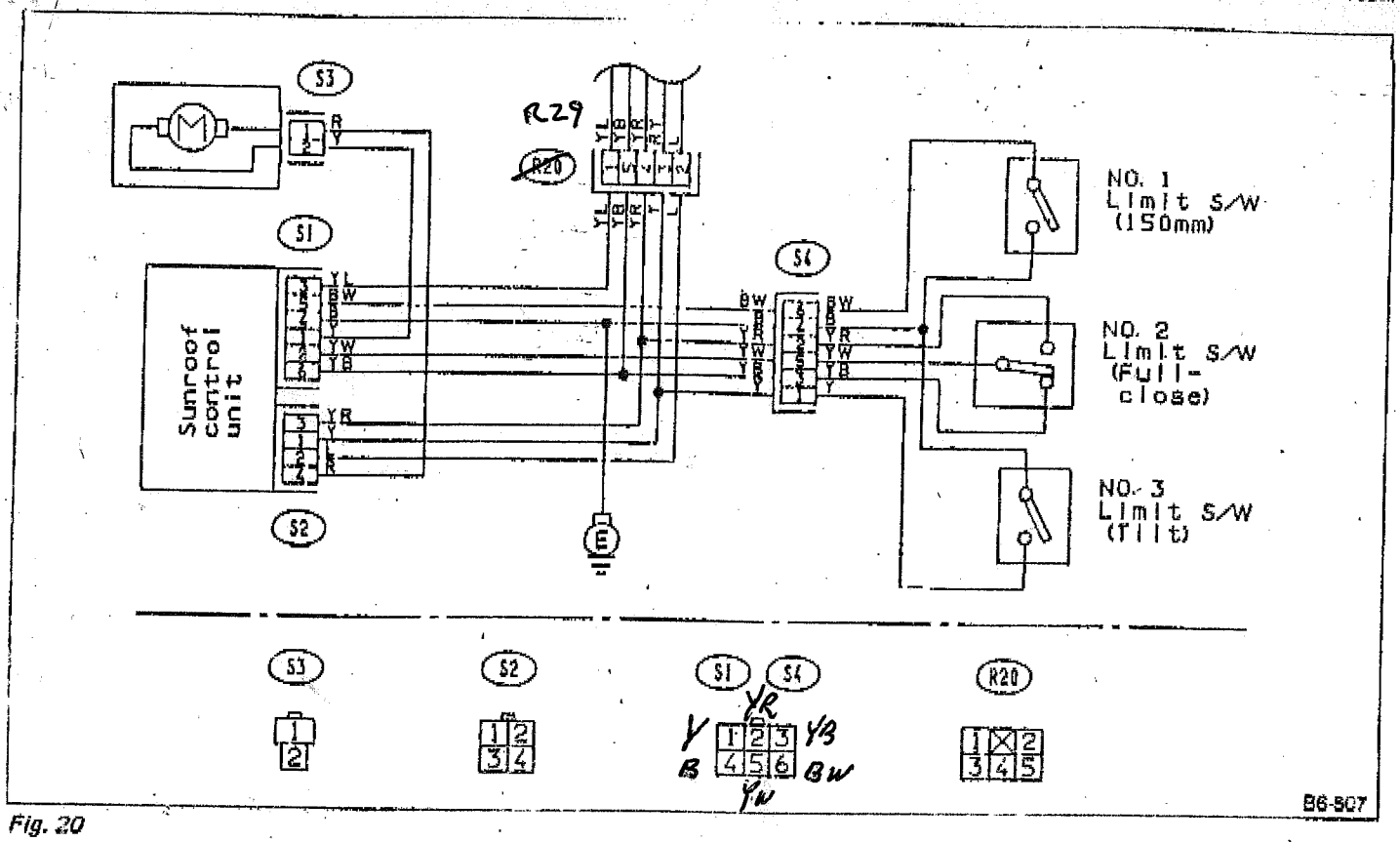


Fig. 20

Limit switch No. / Between terminal of connector (S4) / Sunroof position	No. 1	No. 2		No. 3
	6 and 4	2 and 5	3 and 5	1 and 4
FULL CLOSE	○	○	x	x
AUTO STOP before FULL CLOSE	○	x	○	x
TILT UP	○	○	x	○
FULL OPEN	x	x	○	x

○ : Continuity exists
x : Continuity does not exists
Limit switch
No. 1 : 150 mm (5.91 in) limit switch (AUTO STOP POSITION)
No. 2 : FULL CLOSE limit switch
No. 3 : TILT limit switch

SPOT LIGHT AND VANITY MIRROR LIGHT

Item to check / Symptom	M/B					F/B				
	Fuse No. 25	SBF-3	FL 1.25	SBF-4	Ignition switch	Fuse No. 15	Spot light switch	Vanity mirror light switch	Bulb	Wiring harness
Spot light does not come on.	○	○	○				○		○	○
Vanity mirror light does not come on.			○	○	○	○		○	○	○

SUNROOF

Symptom	Item to check
Motor emits noise.	(1) Motor for loose installation (2) Gear or bearing for wear (3) Cable for wear (4) Cable pipe for deformities
Motor does not operate or operate abnormally. (Use sunroof wrench to check operation of sunroof.)	(1) Blown fuse (2) Switch for improper function (3) Motor terminal voltage for abnormalities (4) Relay for improper operation (5) Faulty ground (6) Open harness or loose terminal (7) Control unit for improper function (8) Limit switch for improper function

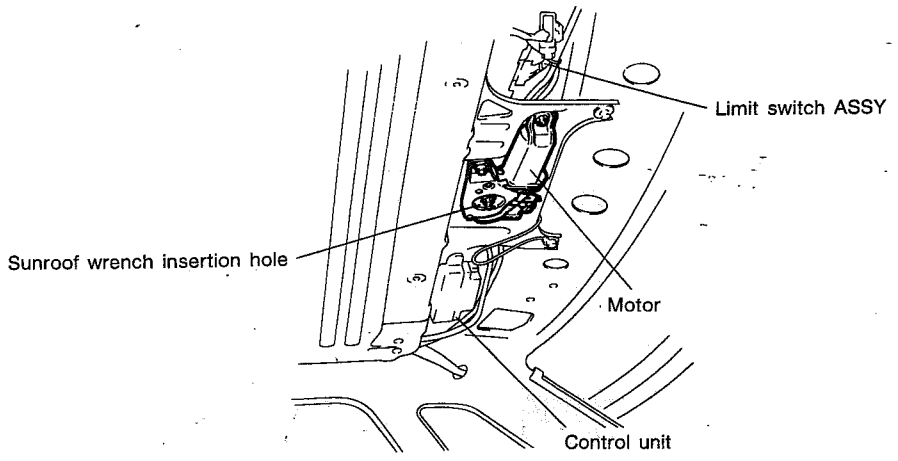
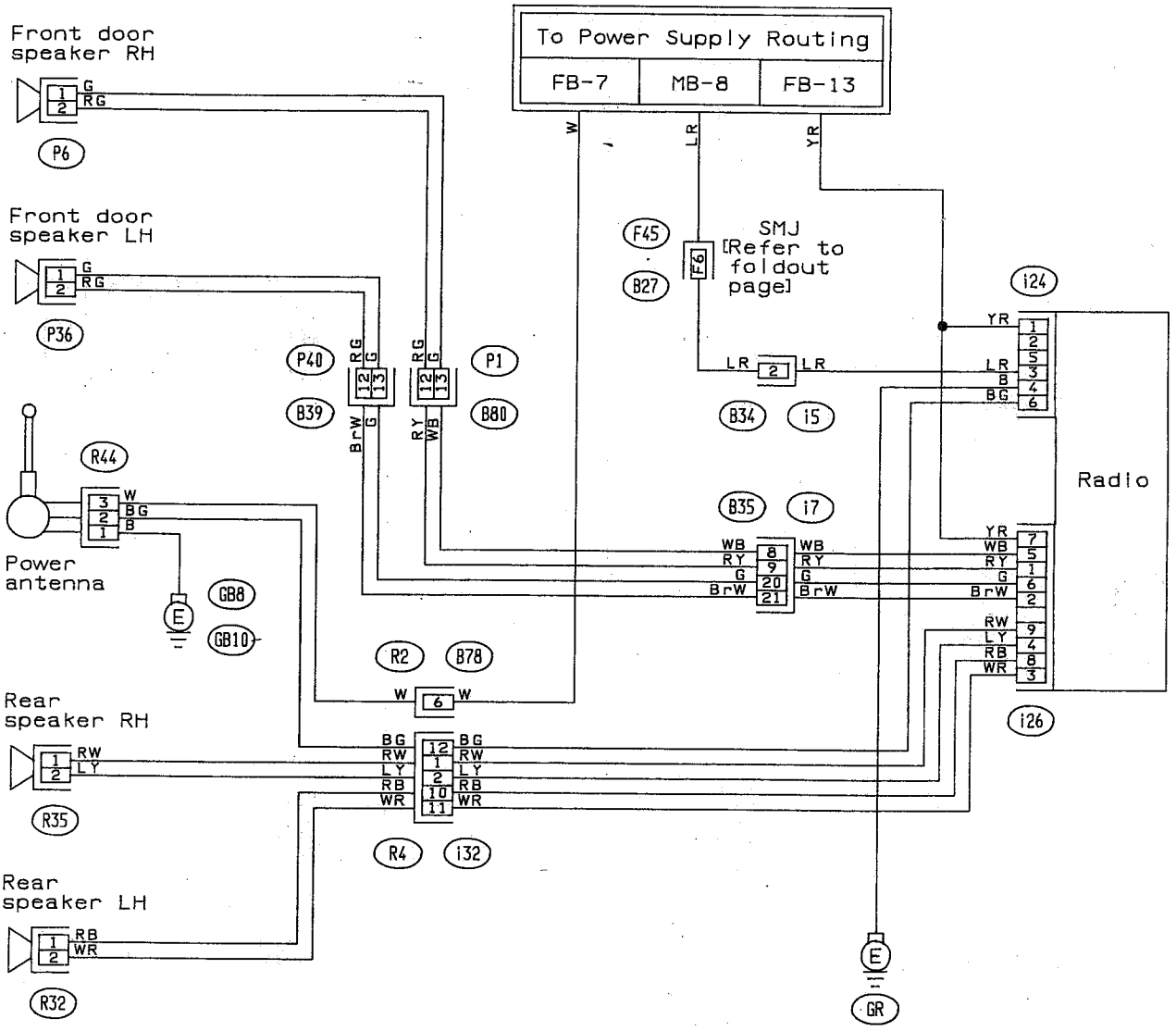


Fig. 54-1

27. RADIO AND POWER ANTENNA



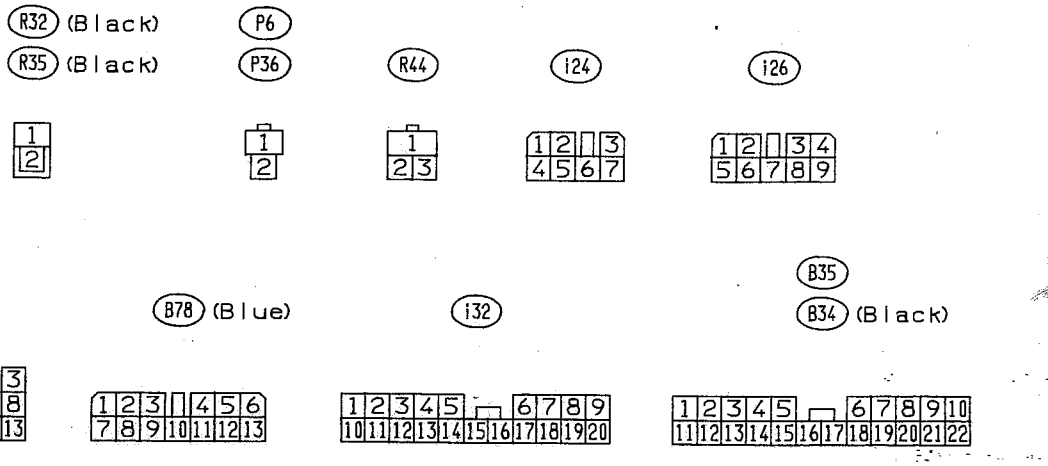


Fig. 55

BU76-01

28. MODE SELECTOR

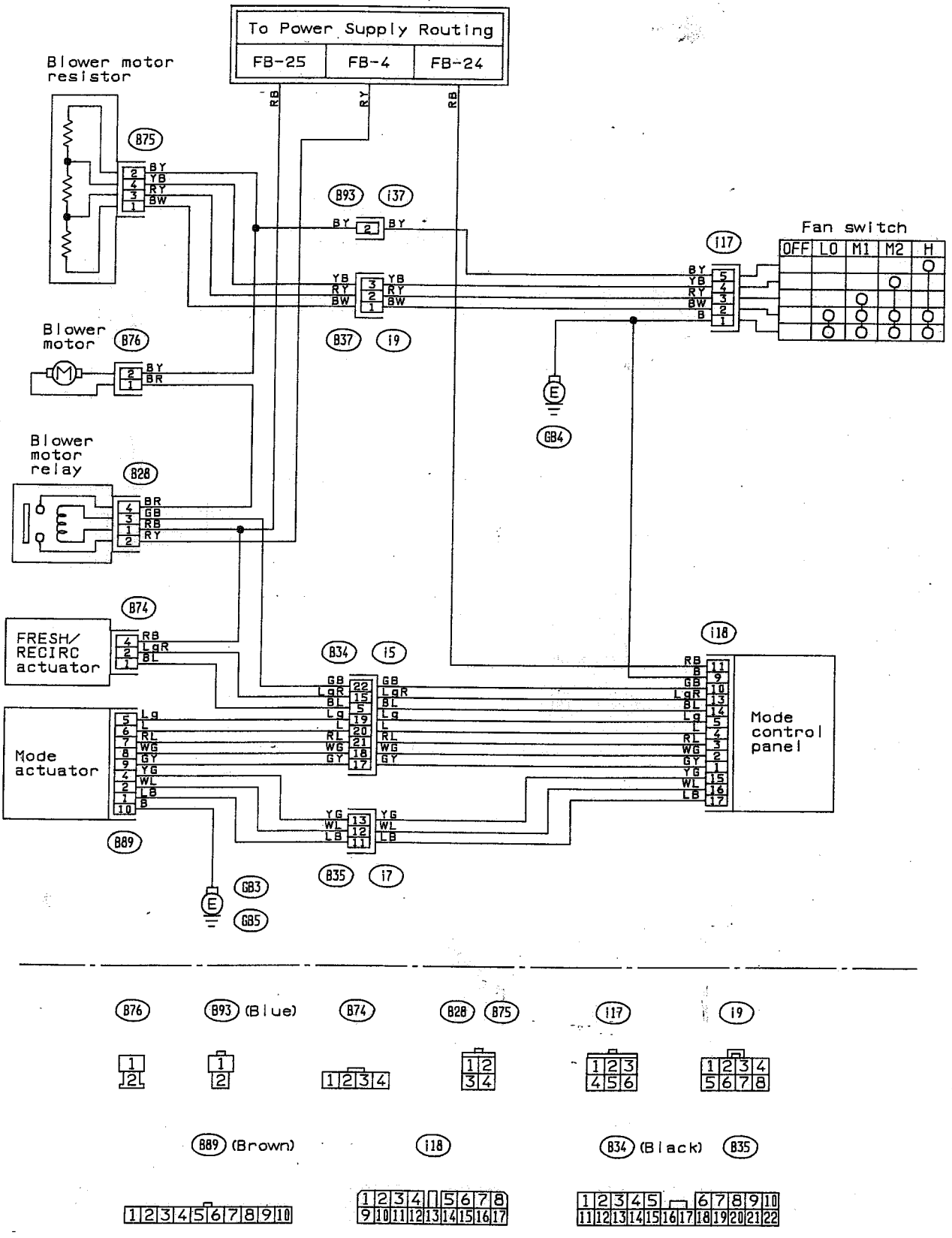


Fig. 56

BU78-01

29. REMOTE CONTROLLED REARVIEW MIRROR

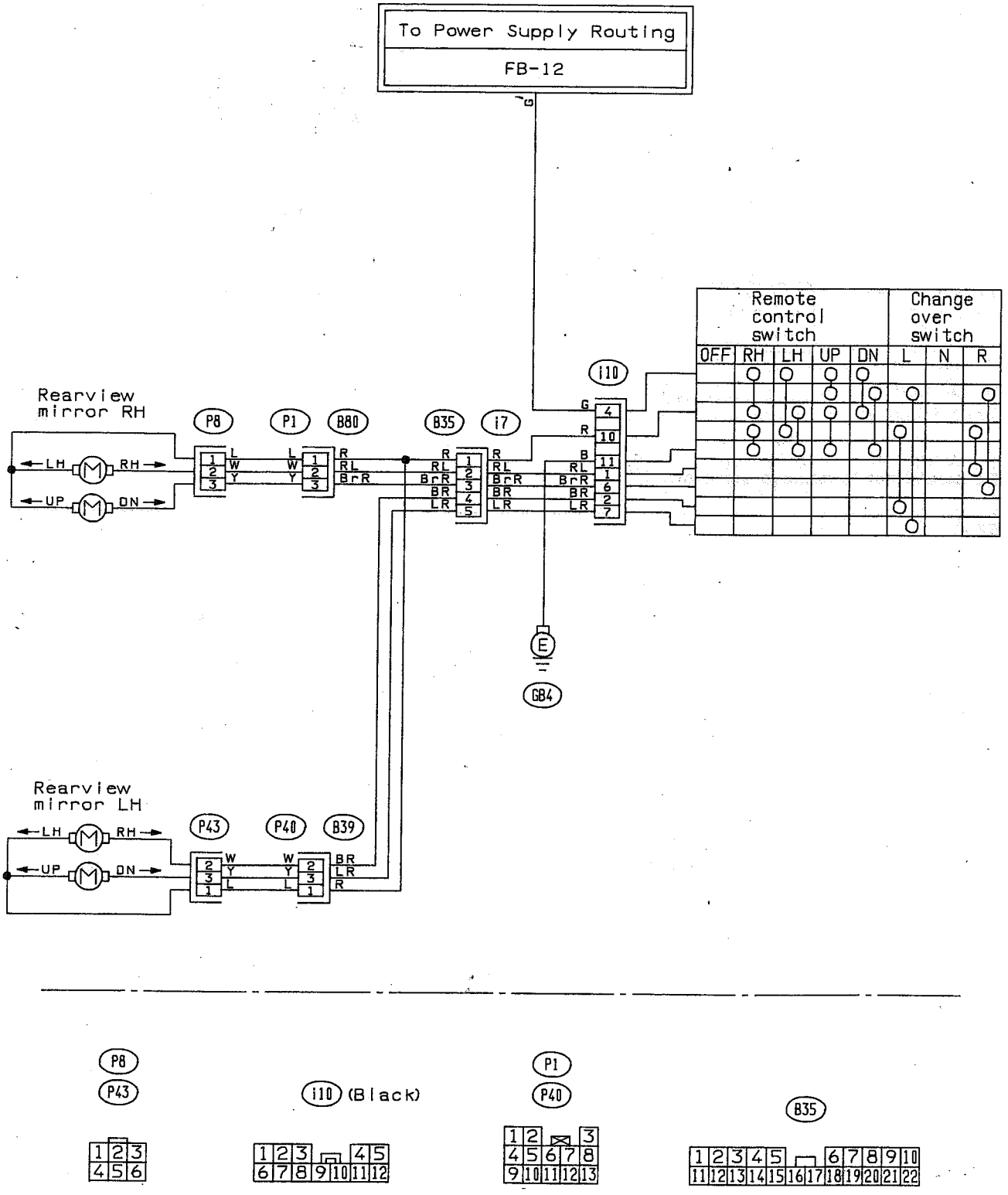
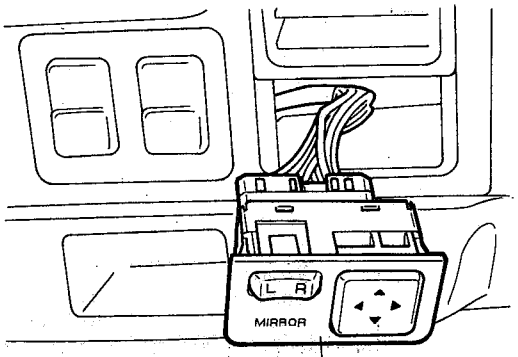


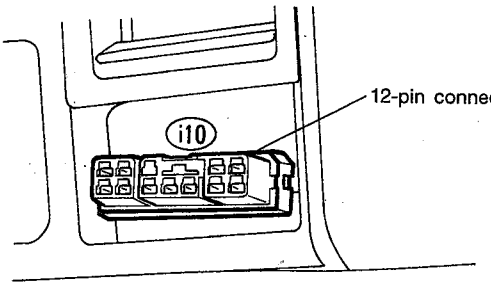
Fig. 57

BU79-01

Using a small, standard screwdriver, pry remote control mirror switch off instrument panel, and disconnect connector from mirror switch.



Remote control mirror switch



1	2			4	5
6	7		10	11	12

Connector (on harness side)

B6-389

Be careful not to damage sunvisor.

Fig. 57-1

1	Turn ignition switch ON. Check for battery voltage at terminal (4).	Not OK	(1) Check fuse No. 3 (15 A) for melting. (2) Check for open harness and poor connection.
2	Ensure that continuity exists between terminal (11) and ground.	Not OK	(1) Check for open harness and poor connection. (2) Check for faulty ground.
3	Short terminals (4) and (7), and terminals (7) and ground or (2) and (11). Turn ignition switch ON to ensure that left rearview mirror faces DOWN or LEFT.	Not OK	(1) If rearview mirror does not face DOWN or LEFT, check harness for open circuits and terminals (7) or (2) for faulty connections. (2) If rearview mirror does not face DOWN and LEFT, check harness for open circuits and terminals for faulty connections. (3) If rearview mirror faces DOWN and LEFT, check switch.
4	Short terminals (4) and (10), and terminals (6) and ground or (1) and (11). Turn ignition switch ON to ensure that right rearview mirror faces DOWN or LEFT.	Not OK	(1) If rearview mirror does not face DOWN or LEFT, check harness for open circuits and terminal (6) or (1) for faulty connections. If no problems are encountered, check right rearview mirror itself. (2) If rearview mirror faces neither DOWN nor LEFT, check harness for open circuits and terminals for faulty connections. (3) If rearview mirror faces DOWN and LEFT, check switch.

30. PNEUMATIC (AIR) SUSPENSION

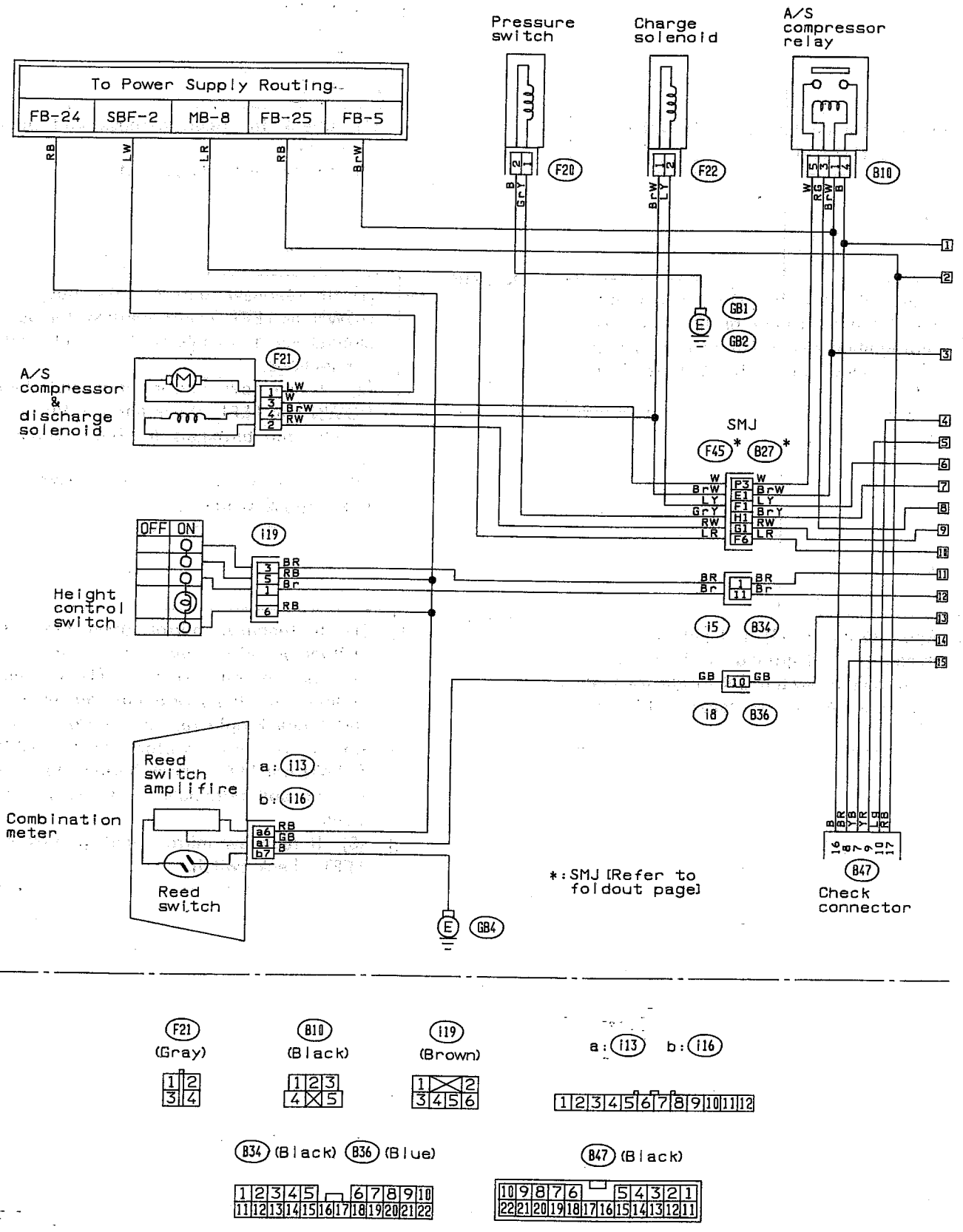
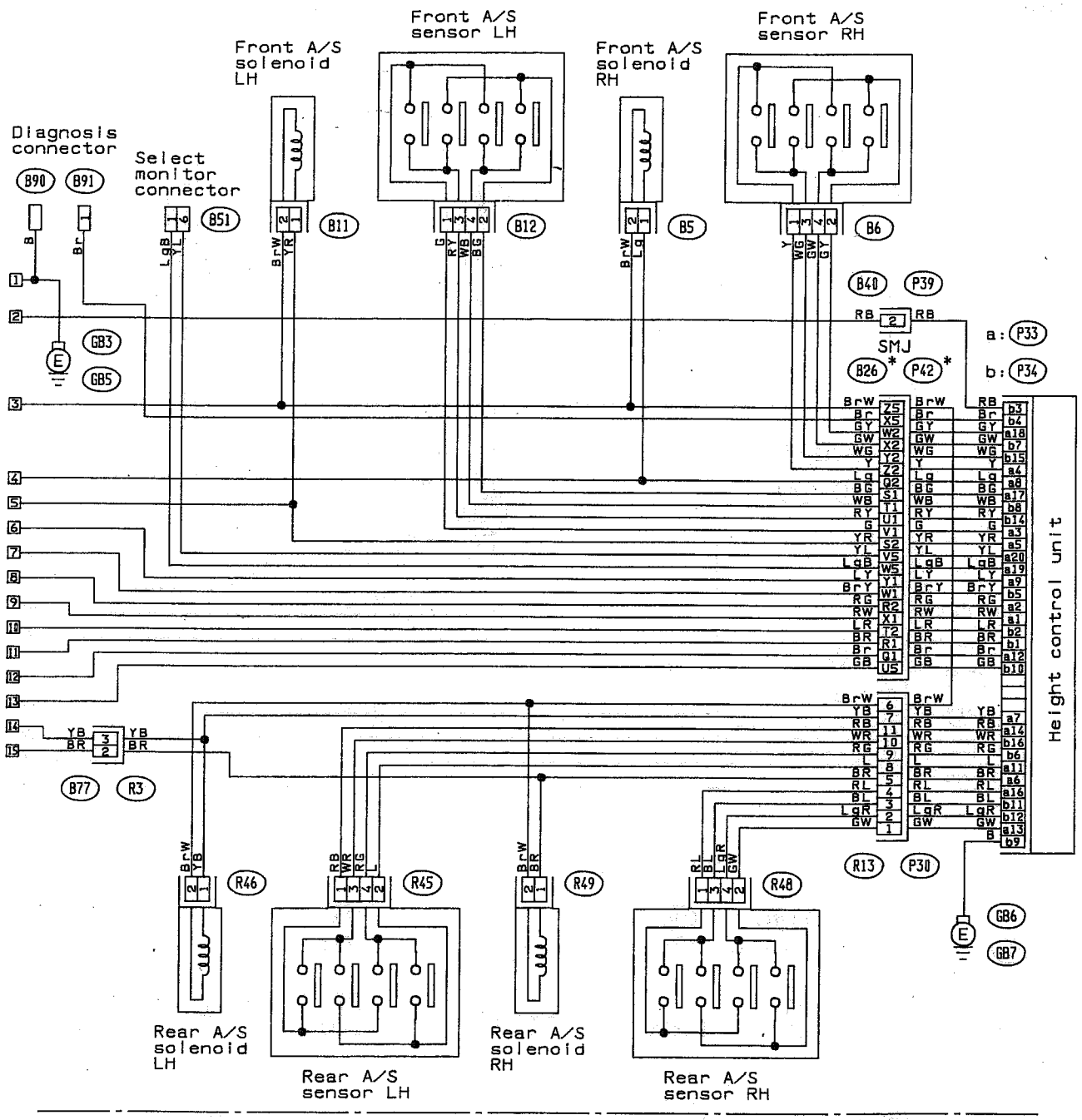
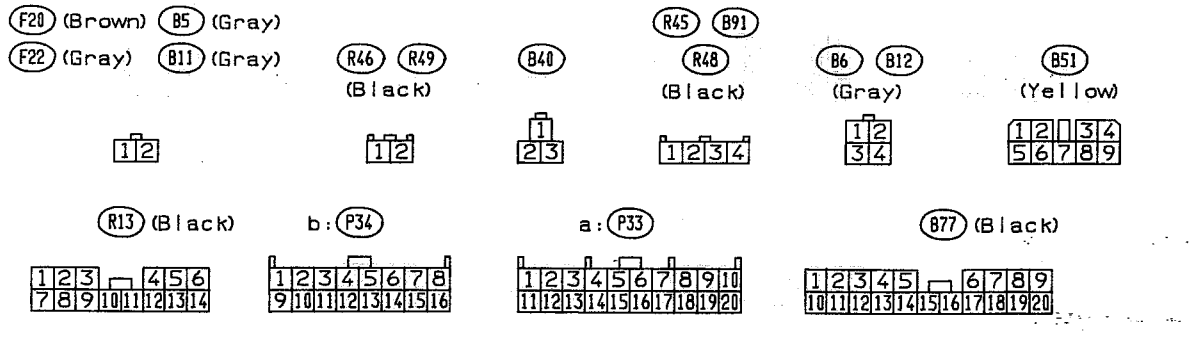


Fig. 58

BU80-01A


Front A/S solenoid LH
Front A/S sensor LH
Front A/S solenoid RH
Front A/S sensor RH
Diagnosis connector
Select monitor connector
B90
B91
B51
B11
B12
B5
B6
B40
P39
GB3
GB5
SMJ
B26 *
P42 *
a: P33
b: P34
B77
R3
R46
R45
R49
R48
R13
P30
GB6
GB7
Height control unit
Rear A/S solenoid LH
Rear A/S sensor LH
Rear A/S solenoid RH
Rear A/S sensor RH


F20 (Brown) B5 (Gray)
F22 (Gray) B11 (Gray)
R46 R49 (Black)
B40
R45 B91
R48 (Black)
B6 B12 (Gray)
B51 (Yellow)
R13 (Black)
b: P34
a: P33
B77 (Black)

BU80-01B

31. AUTOMATIC SHOULDER BELT (SEAT BELT) AND KEY WARNING CHIME

U.S. MODEL

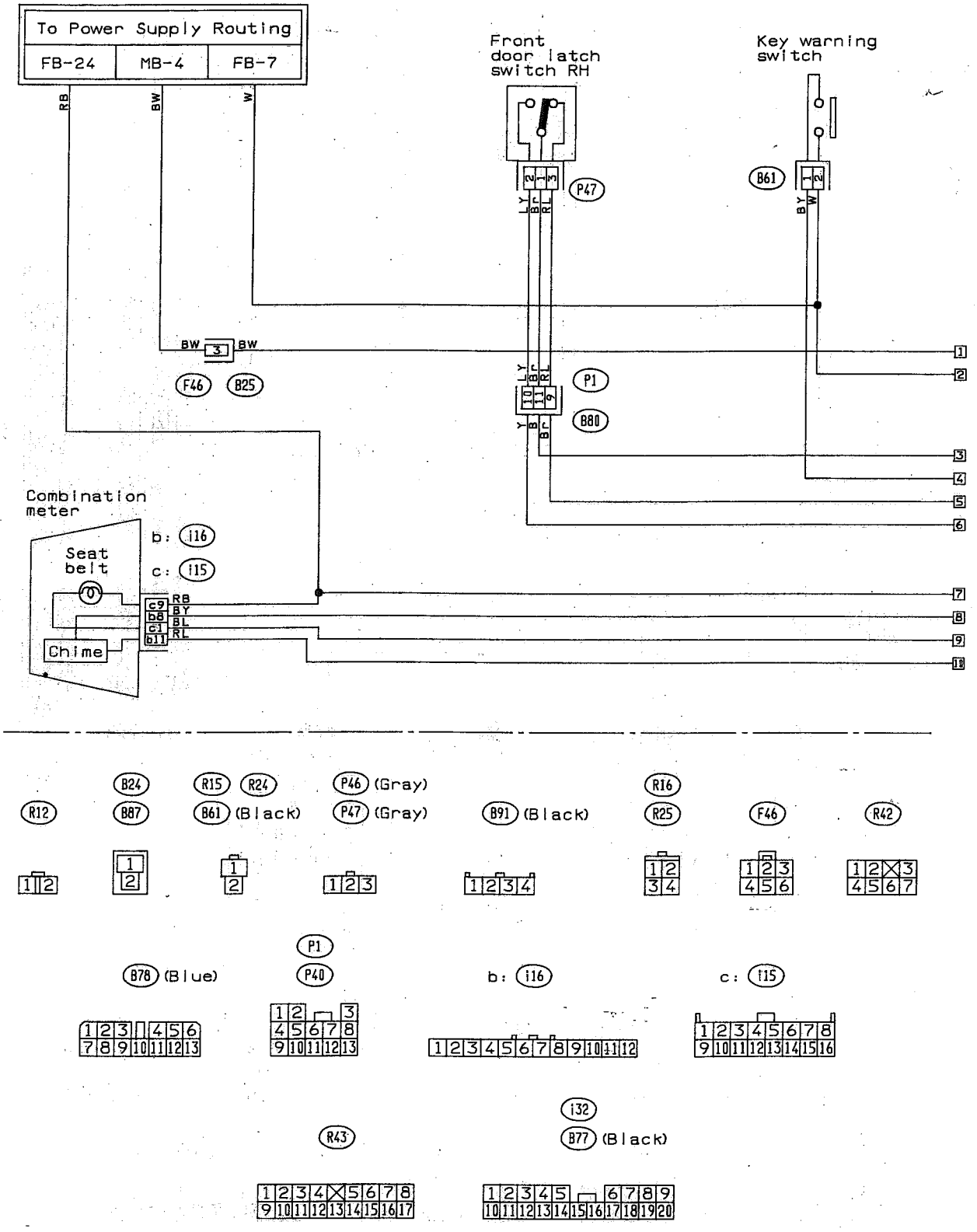
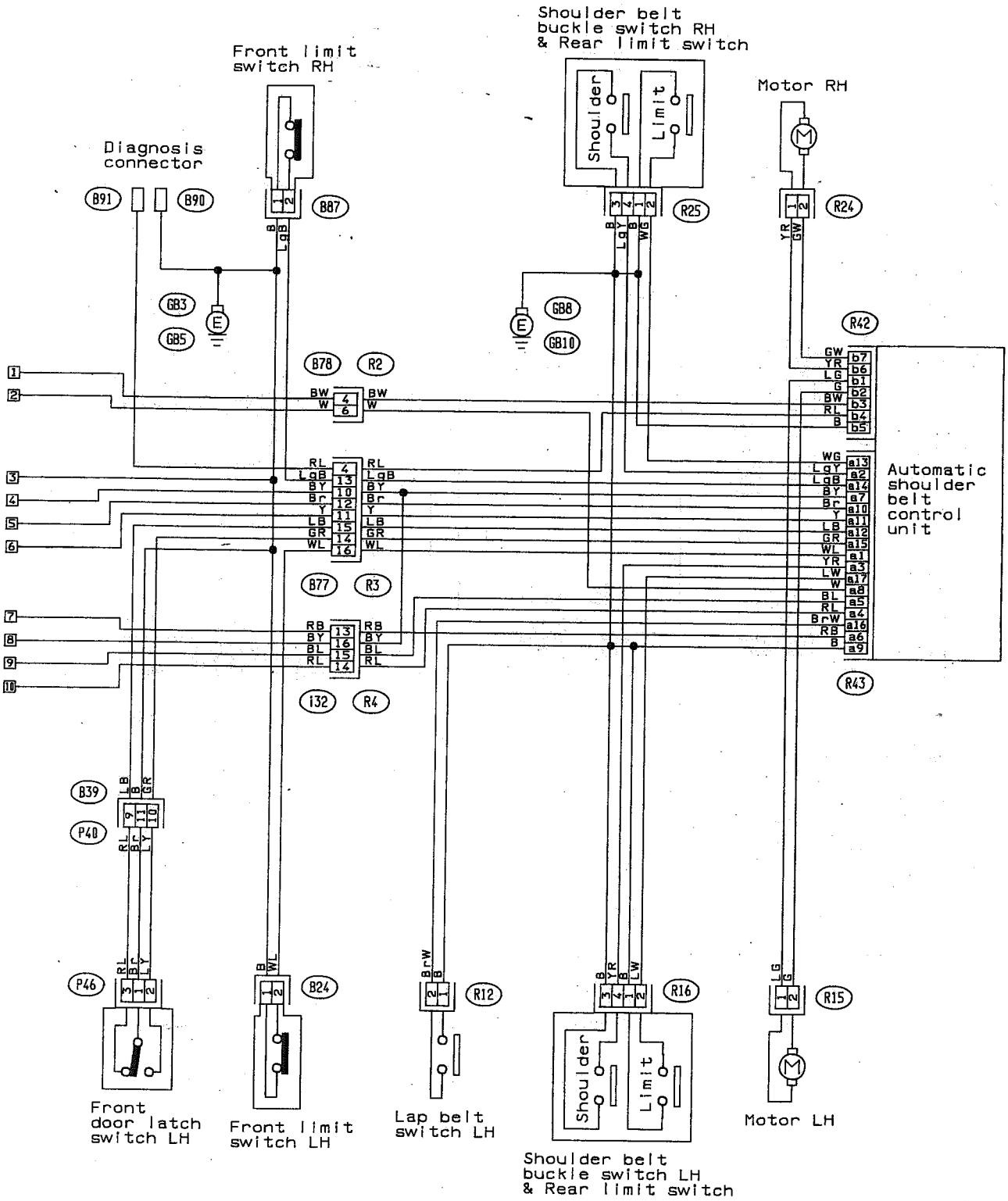


Fig. 59

BU81-01A


Shoulder belt buckle switch RH & Rear limit switch
Front limit switch RH
Motor RH
Diagnosis connector
Automatic shoulder belt control unit
Front door latch switch LH
Front limit switch LH
Lap belt switch LH
Shoulder belt buckle switch LH & Rear limit switch
Motor LH

BU81-01B

CANADA MODEL

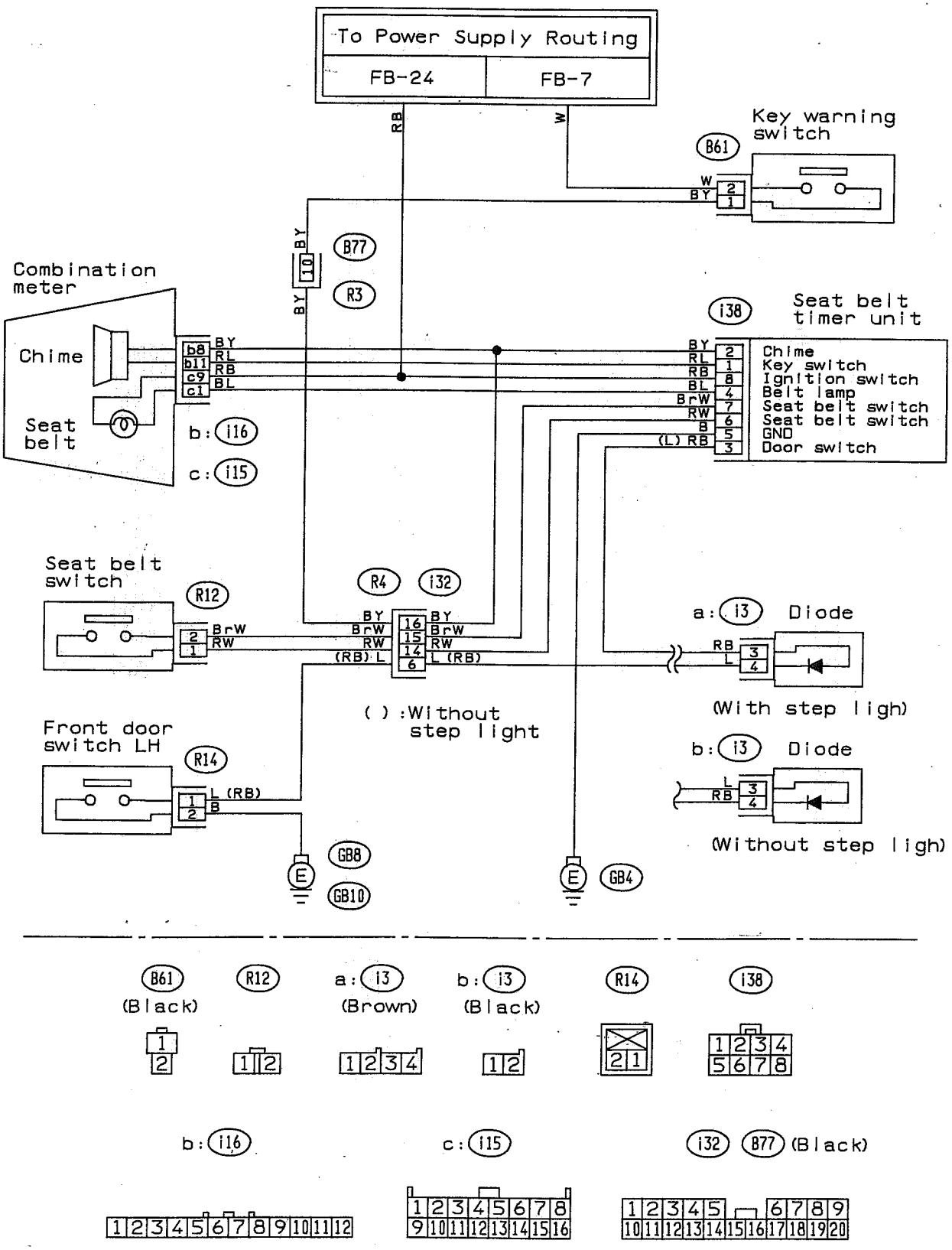
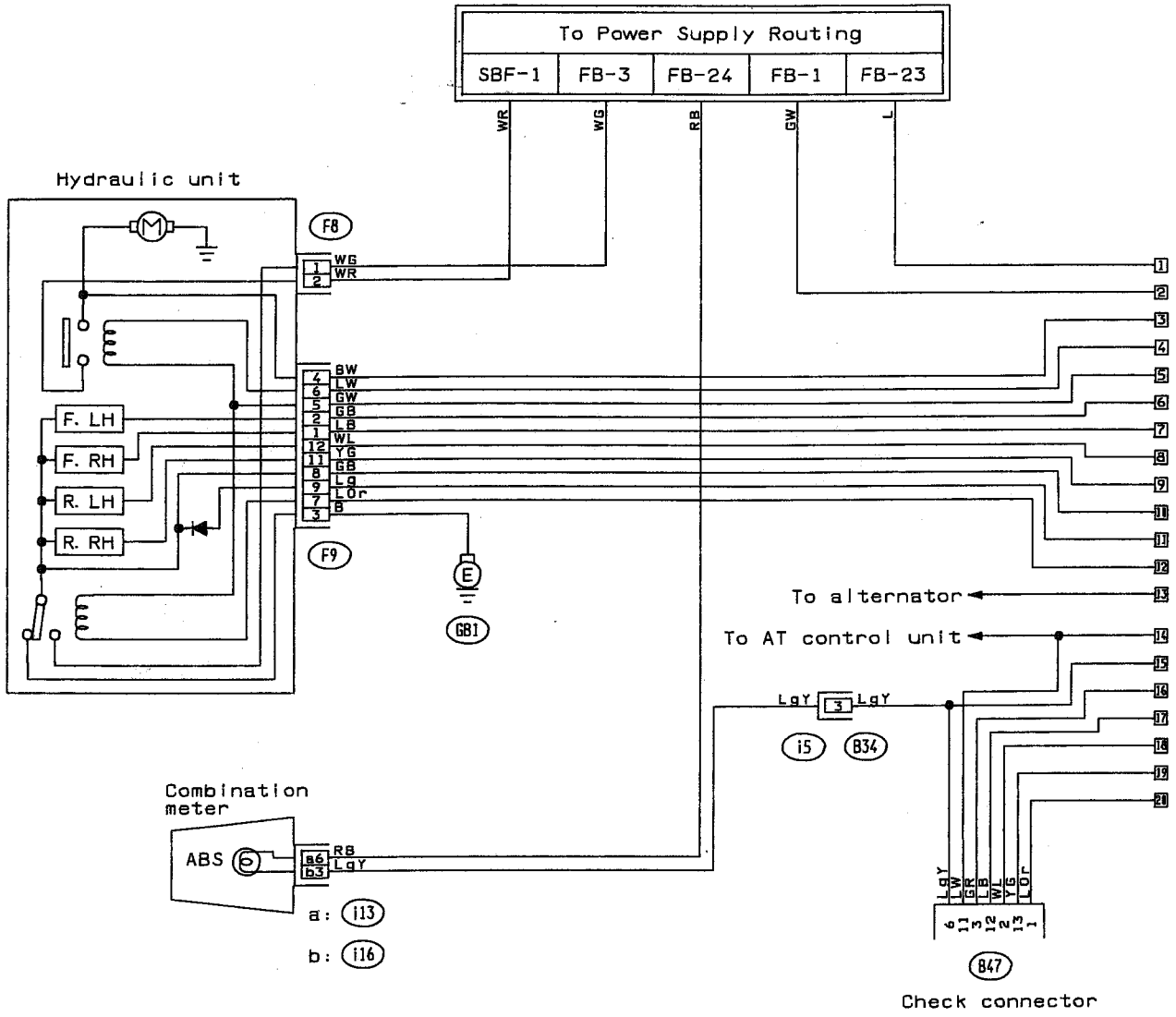


Fig. 60

BC81-01

32. ABS



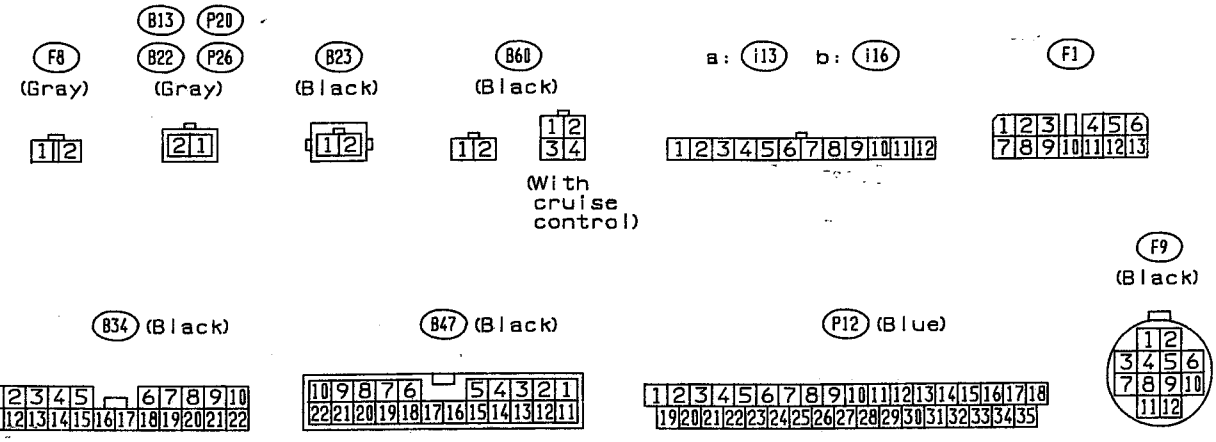
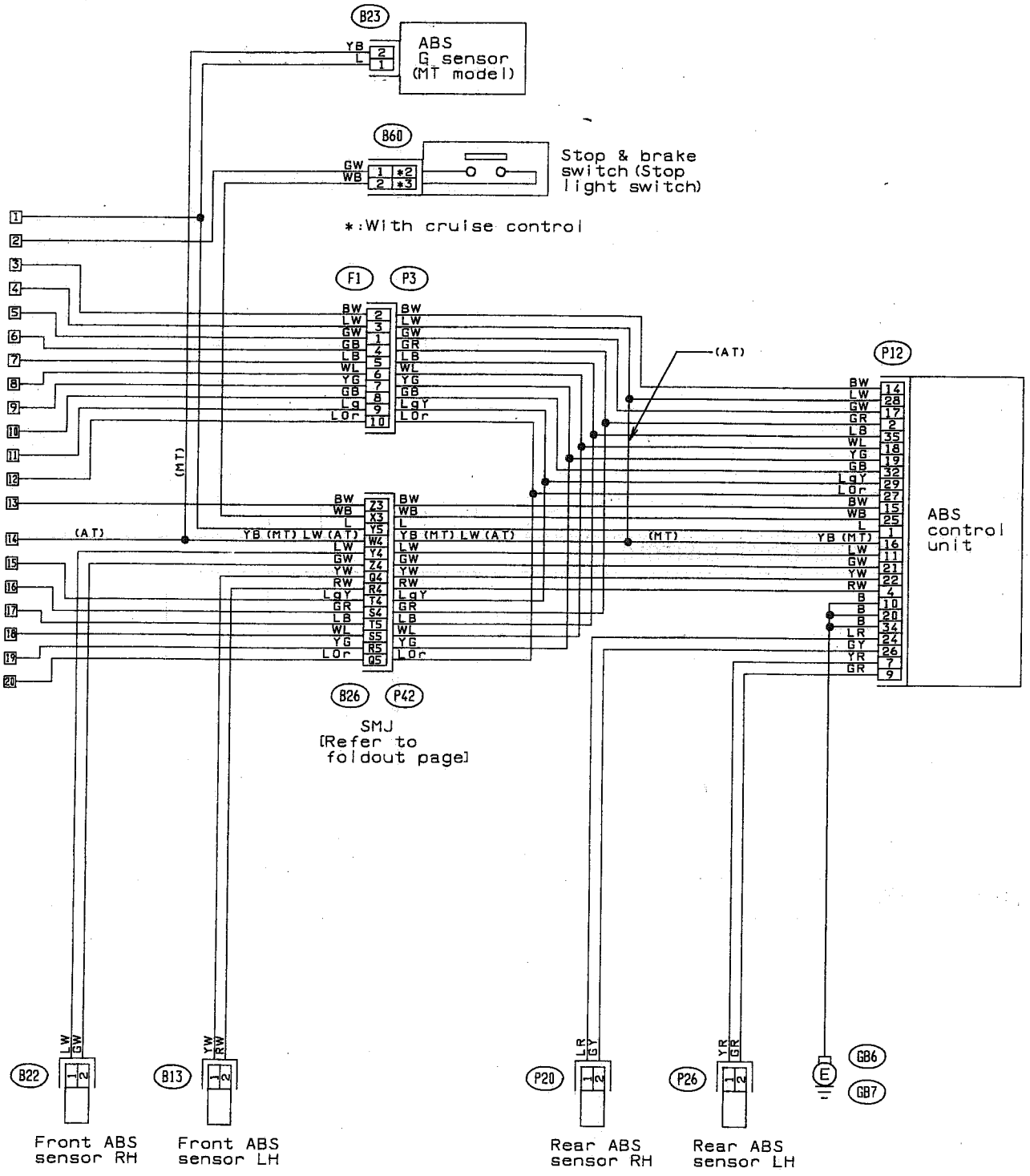


Fig. 61

BU82-01A


B23
ABS G sensor (MT model)
B60
Stop & brake switch (Stop light switch)
*:With cruise control
F1
P3
P12
(AT)
(MT)
ABS control unit
B26
P42
SMJ
[Refer to foldout page]
B22
B13
P20
P26
E
GB6
GB7
Front ABS sensor RH
Front ABS sensor LH
Rear ABS sensor RH
Rear ABS sensor LH

BU82-01B

33 TROUBLESHOOTING: 17, 7, 8, 9, 11, 15, 16, 20, 22 AND 24

(17. REAR WINDOW DEFOGGER)

Symptom \ Item to check		M/B				Ignition switch	F/B				Switches			Lighting switch	Heat wire	Ground	Wiring harness
		FL 1.25	Fuse No. 23	SBF-4	SBF-5		Fuse No. 7	Fuse No. 9	Rear defogger relay	Tail & Illumination relay	Ignition switch	Indicator light	Illumination light				
Rear defogger operates but indicator does not comes on.												○				○	○
Rear defogger does not operate.	Indicator comes on.				○		○		○						○	○	○
	Indicator does not come on.	○		○		○	○		○		○	○			○	○	○
Illumination light does not come on.		○	○			○		○		○			○	○		○	○

(7. ROOM LIGHT AND DOOR SWITCH)

Symptom \ Item to check	M/B				Ignition switch	F/B	Bulb	Room light switch	Door switch	Diode	Ground	Wiring harness
	Fuse No. 25	SBF-3	FL 1.25	SBF-4		Fuse No. 15						
Room light and step light do not come on.	○	○	○	○	○	○	○	○	○	○	○	○

(8. STOP LIGHT)

Symptom \ Item to check	M/B			Ignition switch	F/B		Stop light switch	Bulb	Ground	Wiring harness
	SBF-3	FL 1.25	SBF-4		Fuse No. 12	Fuse No. 15				
Stop light does not come on.	○	○			○		○	○	○	○
Stop lamp warning light does not come on.		○	○	○		○		○		○

(9. TURN SIGNAL AND HAZARD)

Item to check / Symptom	M/B			Ignition switch	F/B	Turn & Hazard unit	Turn signal switch	Hazard switch	Bulb	Ground	Wiring harness
	Fuse No. 22	SBF-4	FL 1.25		Fuse No. 1						
All turn signal lights do not come on.		○	○	○	○	○	○			○	○
Turn signal does not flash (remains on).						○			○		○
Turn signal indicator does not come on.									○	○	○
Lights do not come on when hazard switch is turned ON.	○							○			○
Hazard switch illumination light does not come on.								○			○

(11. BACK-UP LIGHT)

Item to check / Symptom	M/B		Ignition switch	F/B	Bulb	Inhibitor switch	Back-up light switch	Ground	Wiring harness
	SBF-4	FL 1.25		Fuse No. 1					
Back-up light does not come on.	○	○	○	○	○	○	○	○	○

(15. WINDSHIELD WIPER AND WASHER)
(16. REAR WIPER AND WASHER)

Symptom \ Item to check		Blown M/B or F/B fuse	Wiper switch	Wiper motor: Front	Wiper motor: Rear	Washer switch	Washer motor	Intermittent unit (built into wiper switch)	Insufficient washer fluid	Disconnected, broken or clogged washer tube	Wiper link	Improper grounding	Open wiring harness or poor terminal connections
Windshield wiper does not operate at:	All positions	○	○	○	○						○	○	○
	INT.		○					○					○
	LO or HI		○										○
	MIST		○										○
Rear wiper does not operate.		○	○		○							○	○
Wiper does not stop at specified position.	Front wiper		○	○									○
	Rear wiper				○								○
Wiper does not operate intermittently or at specified intermittent speed.			○					○					○
Wiper does not operate in synchronization with washer.								○					○
Washer fluid is injected poorly or is not injected.						○	○		○	○		○	○

(20. COMBINATION METER)

No.	Symptom	Cause
1	Speedometer and/or odometer do not operate.	Poor meter cable connection (on meter and transmission sides), or broken cable or transmission driven gear.
2	Speedometer point deflects beyond max. scale indication.	Broken hair spring (Foreign matter in oil)
3	Speedometer pointer does not return to zero.	Foreign particle caught on magnet (Foreign matter in oil) Deformed hair spring (Foreign matter in oil) Bent pointer stopper (Foreign matter in oil)
4	Speedometer pointer fluctuates.	Speedometer cable chafed or improperly routed.
5	Odometer and tripmeter do not operate though speedometer does.	Faulty speedometer's internal gear.

(22. POWER WINDOW)

Symptom \ Item to check		SBF-4	Fuse No. 15 (10 A)	Circuit breaker and P/W relay	Main switch	Sub switch	Driver side P/W motor	Passenger side P/W motor	Window regulator	Faulty ground	Wiring harness
All windows do not operate.		○	○	○	○					○	○
Driver's door window does not operate.					○		○				○
Main AUTO switch does not operate.					○		○				○
Passenger's door window does not operate.	Front RH				○	○		○	○		○
	Rear LH				○	○		○	○		○
	Rear RH				○	○		○	○		○

(24. DOOR LOCK)

Symptom \ Item to check		Fuse No. 11 (20 A)	Door lock knob switch	Passenger door actuator	Rods and links	Faulty ground	Wiring harness
Doors cannot be locked or unlocked using door lock knob on driver' side.	All passenger doors	○	○		○		○
	Some passenger doors			○	○		○