

**SUPPLEMENT FOR 6 CYLINDER
ENGINE MODEL**

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

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

FOREWORD**FW****HOW TO USE THIS MANUAL****HU****SPECIFICATIONS****SPC****PRECAUTION****PC****NOTE****NT****IDENTIFICATION****ID****RECOMMENDED MATERIALS****RM****PRE-DELIVERY INSPECTION****PI****PERIODICAL MAINTENANCE****PM**

**SUPPLEMENT FOR 6 CYLINDER
ENGINE MODEL****FUEL INJECTION (FUEL SYSTEMS) FU(H6)****EMISSION CONTROL
(AUX. EMISSION CONTROL DEVICES) EC(H6)****INTAKE (INDUCTION) IN(H6)****MECHANICAL ME(H6)****EXHAUST EX(H6)****COOLING CO(H6)****LUBRICATION LU(H6)****SPEED CONTROL SYSTEMS SP(H6)****IGNITION IG(H6)****START/CHARGING SYSTEMS SC(H6)****ENGINE (DIAGNOSTICS) EN(H6)****REAR SUSPENSION RS****WIRING SYSTEM WI**

WIRING SYSTEM



	Page
1. Basic Diagnostics Procedure	3
2. Working Precautions	13
3. Super Multiple Junction (SMJ)	14
4. Power Supply Routing.....	17
5. Ground Distribution	32
6. Airbag System	41
7. Air Conditioning System.....	45
8. Anti-lock Brake System.....	66
9. A/T Control System	73
10. Audio System	95
11. Charging System.....	100
12. Combination Meter.....	101
13. Cruise Control System	107
14. Door Lock System.....	120
15. Engine Coolant Temperature Gauge System	124
16. Engine Electrical System	125
17. Fuel Gauge System	181
18. Full-Time Dual-Range System	184
19. Front Accessory Power Supply System.....	185
20. Headlight Beam Leveler System.....	186
21. Horn System.....	187
22. Immobilizer System	188
23. Keyless Entry System	192
24. Back-up Light System	198
25. Clearance Light and Illumination Light System	199
26. Front Fog Light System.....	206
27. Headlight System	209
28. In Compartment Light System.....	211
29. Stop Light System	217
30. Turn Signal Light and Hazard Light System.....	219
31. Oil Pressure Warning Light System.....	223
32. Outside Temperature Display System.....	224
33. Parking Brake and Brake Fluid Level Warning System.....	225
34. Pneumatic (Air) Suspension System	226
35. Power Seat System.....	234
36. Power Window System	235
37. Radiator Fan System	244
38. Rear Accessory Power Supply System	247
39. Rear Fog Light System	248
40. Rear Window Defogger System.....	249
41. Remote Controlled Rearview Mirror System	250
42. Seat Belt Warning System	252
43. Seat Heater System.....	254
44. Starter System.....	255

GENERAL DIAGNOSTIC TABLE

45.	Sunroof System.....	256
46.	Vehicle Dynamic Control System.....	257
47.	Wiper and Washer System (Front)	273
48.	Wiper and Washer System (Rear).....	275
49.	Wiper Deicer System	277
50.	Overall Systems	278
51.	Front Wiring Harness	282
52.	Bulkhead Wiring Harness (In Engine Room).....	288
53.	Bulkhead Wiring Harness (In Compartment).....	296
54.	Engine Wiring Harness and Transmission Cord.....	305
55.	Instrument Panel Wiring Harness	309
56.	Rear Wiring Harness.....	313
57.	Door Cord.....	321
58.	Rear Wiring Harness and Trunk Lid Cord	325
59.	Rear Wiring Harness and Rear Gate Cord.....	327

17. Fuel Gauge System S903046

A: SCHEMATIC S903046A21

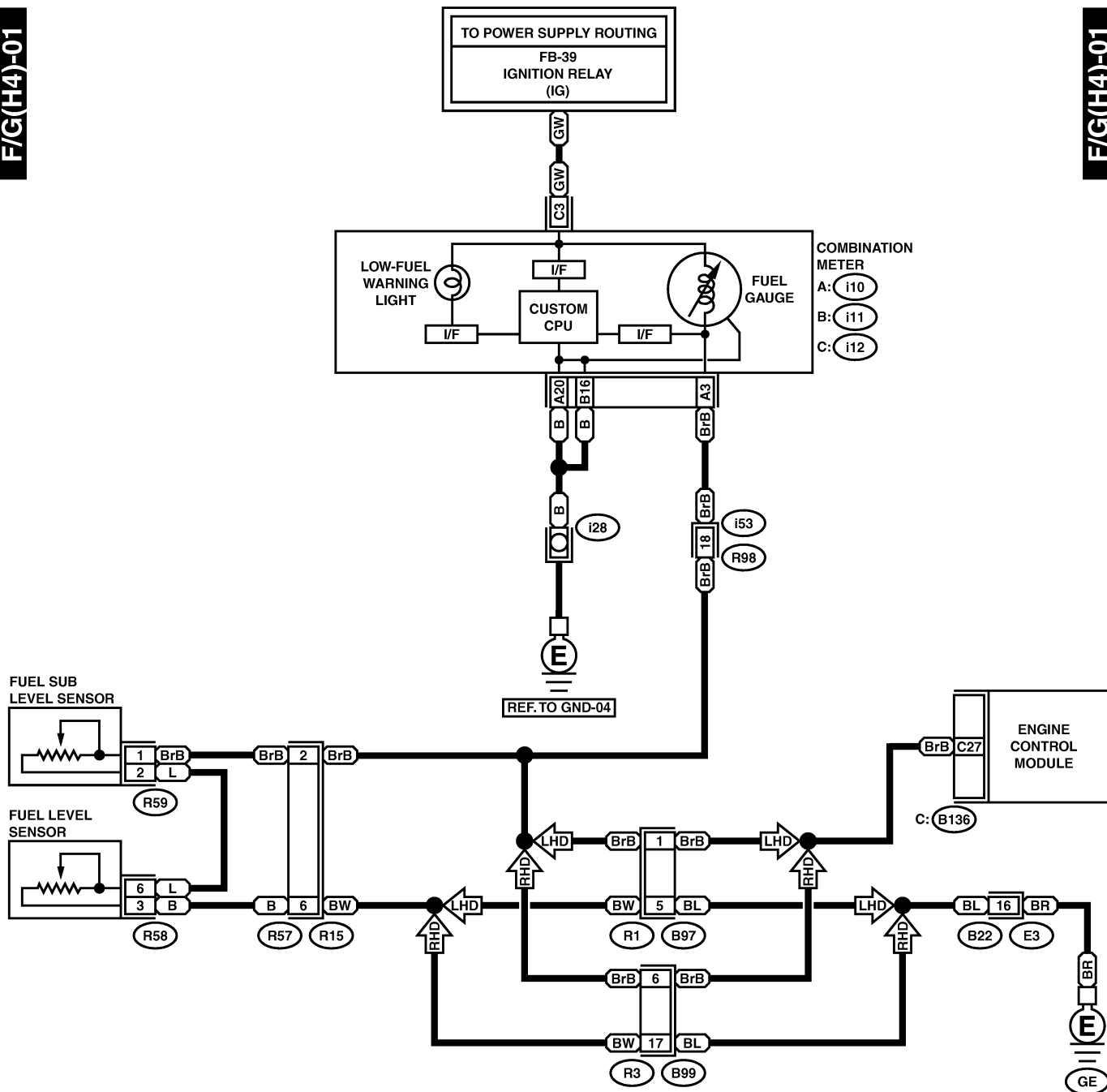
FUEL GAUGE SYSTEM

Wiring System

1. H4 MODEL S903046A2103

F/G(H4)-01

F/G(H4)-01



R59



R57 (BLACK)



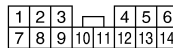
R58 (GRAY)



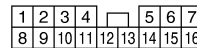
B97



C: i12 (GREEN)

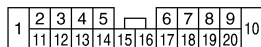


B: i11 (GREEN)



R98 (BLUE)

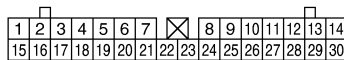
R3



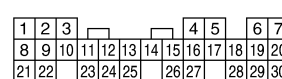
B22 (BROWN)



A: i10 (GREEN)



C: B136



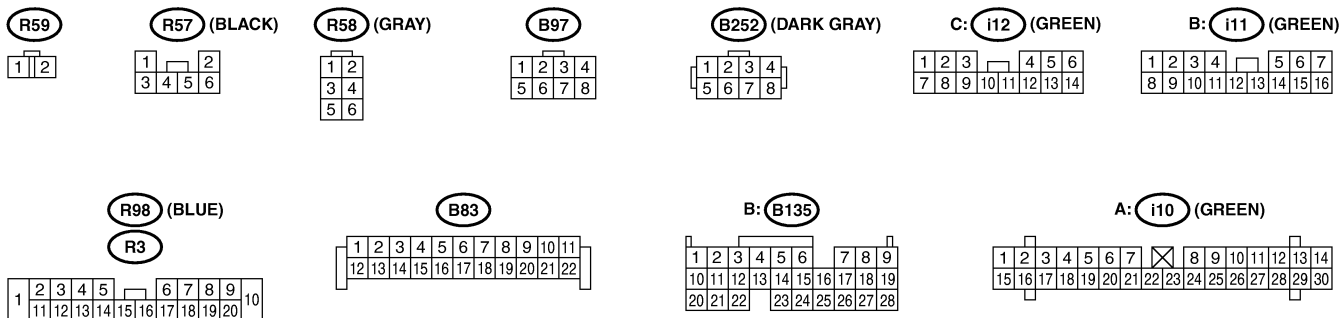
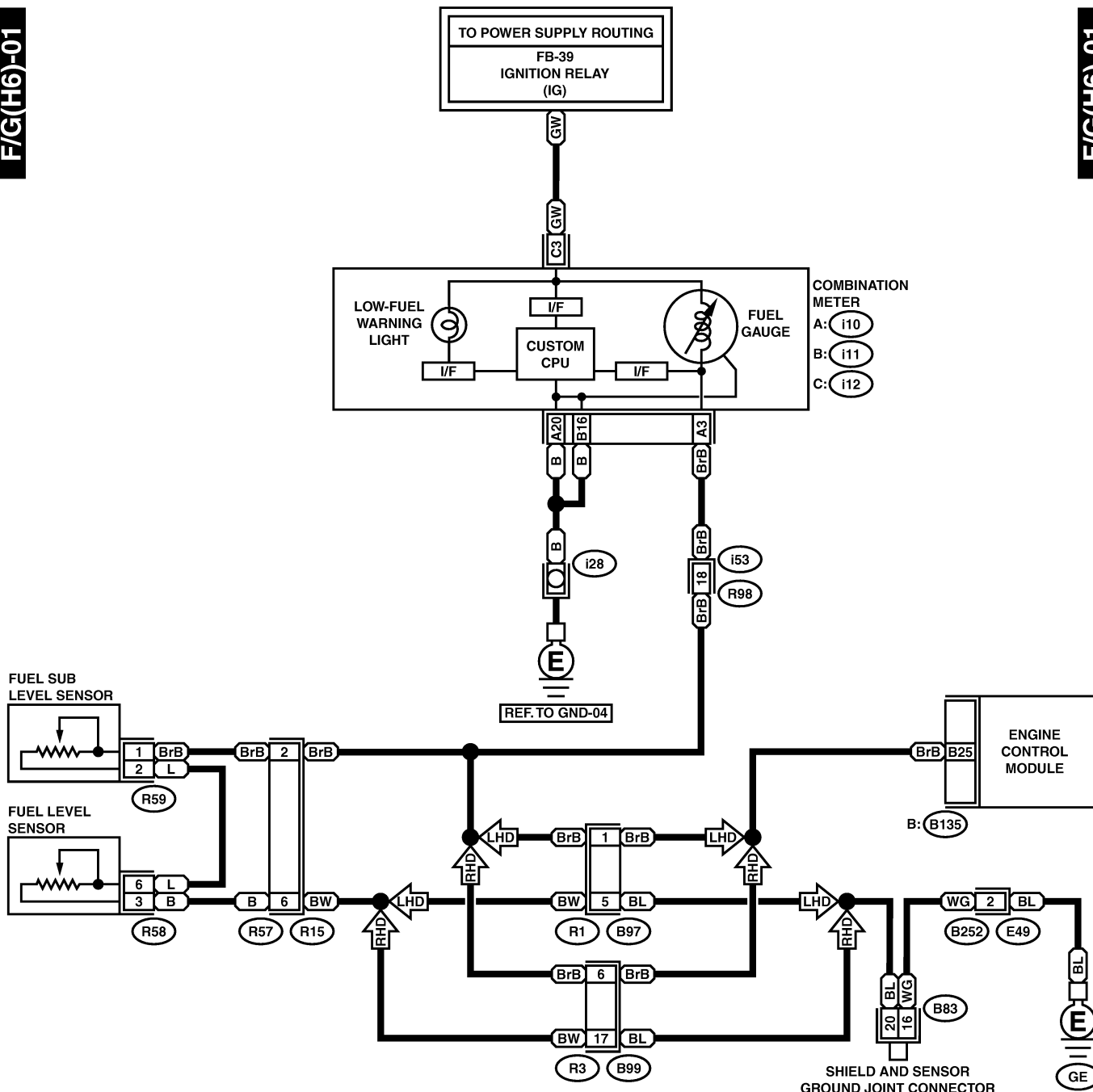
FUEL GAUGE SYSTEM

Wiring System

2. H6 MODEL S903046A2104

F/G(H6)-01

F/G(H6)-01



FULL-TIME DUAL-RANGE SYSTEM

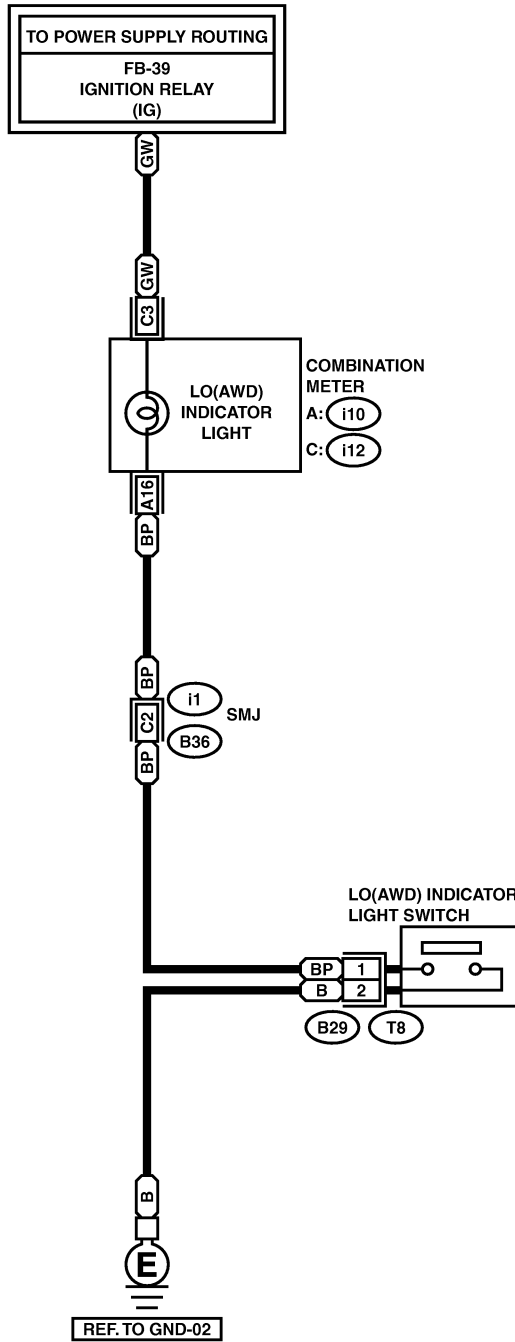
Wiring System

18. Full-Time Dual-Range System S903492

A: SCHEMATIC S903492A21

FTDR-01

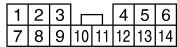
FTDR-01



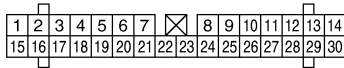
B29 (BLACK)



C: i12 (GREEN)

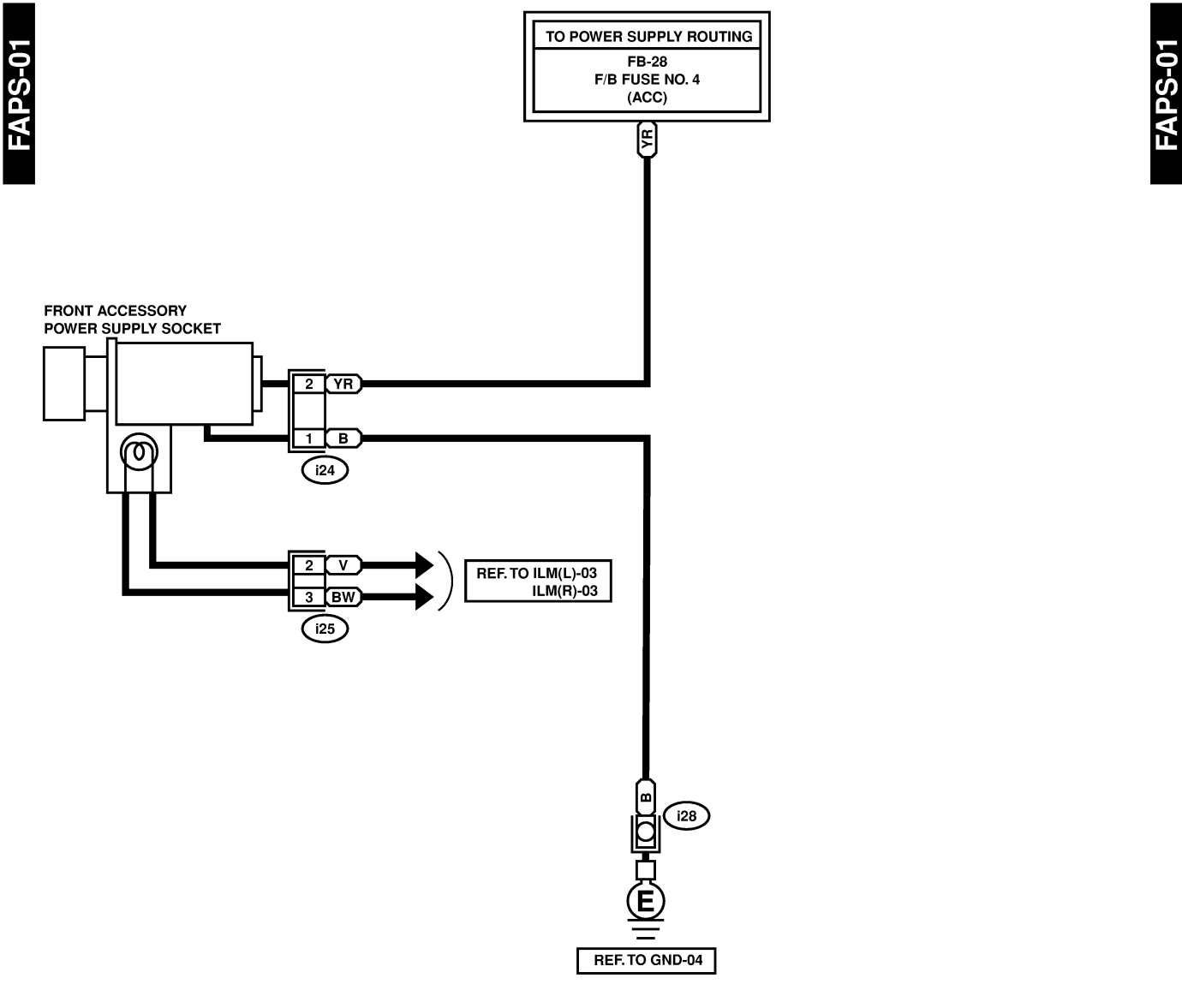


A: XX (GREEN)



19. Front Accessory Power Supply System S903664

A: SCHEMATIC S903664A21



FAPS-01

FAPS-01



HEADLIGHT BEAM LEVELER SYSTEM

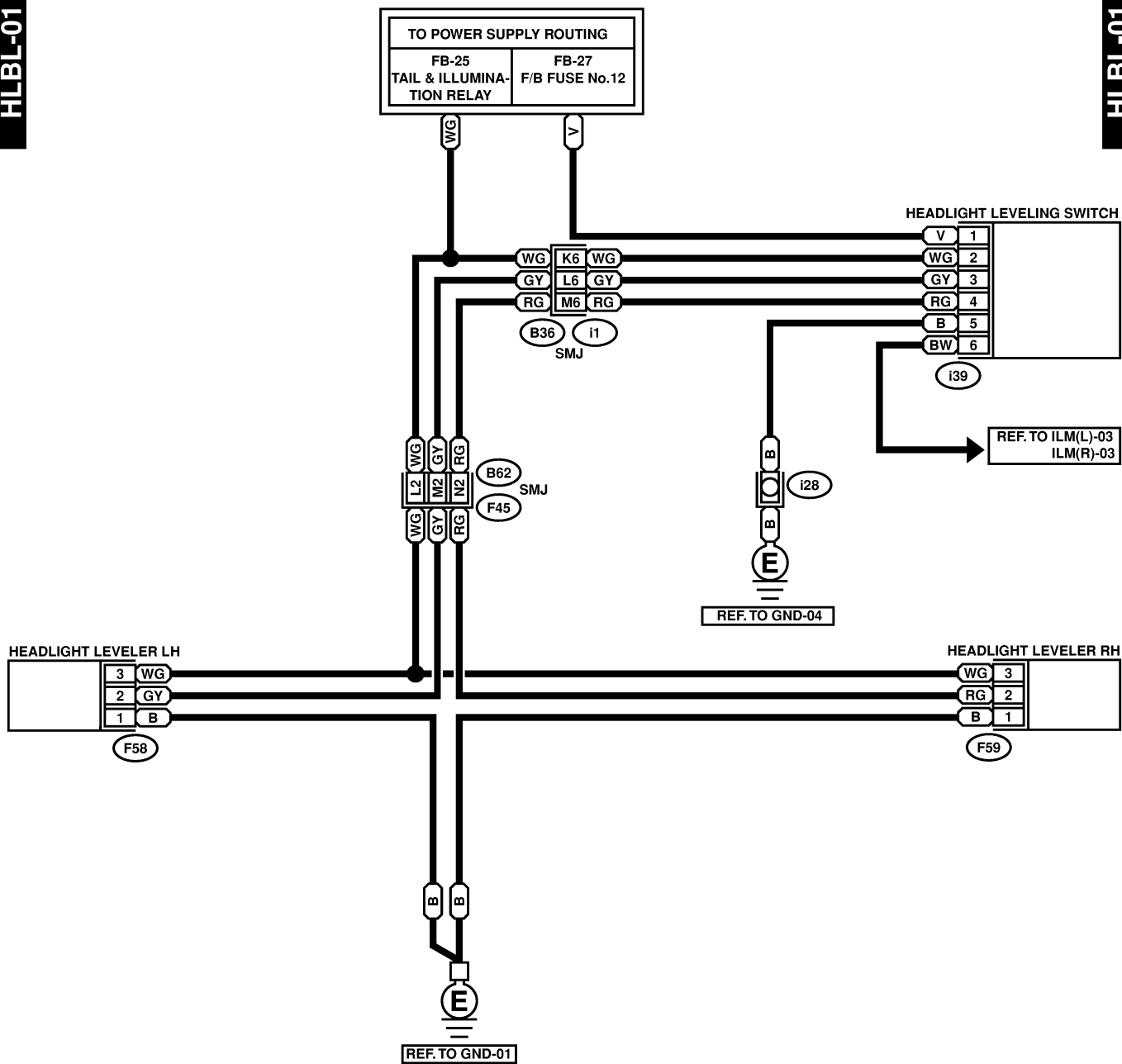
Wiring System

20. Headlight Beam Leveler System S903493

A: SCHEMATIC S903493A21

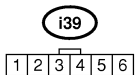
HLBL-01

HLBL-01



F58 (GRAY)

F59 (GRAY)

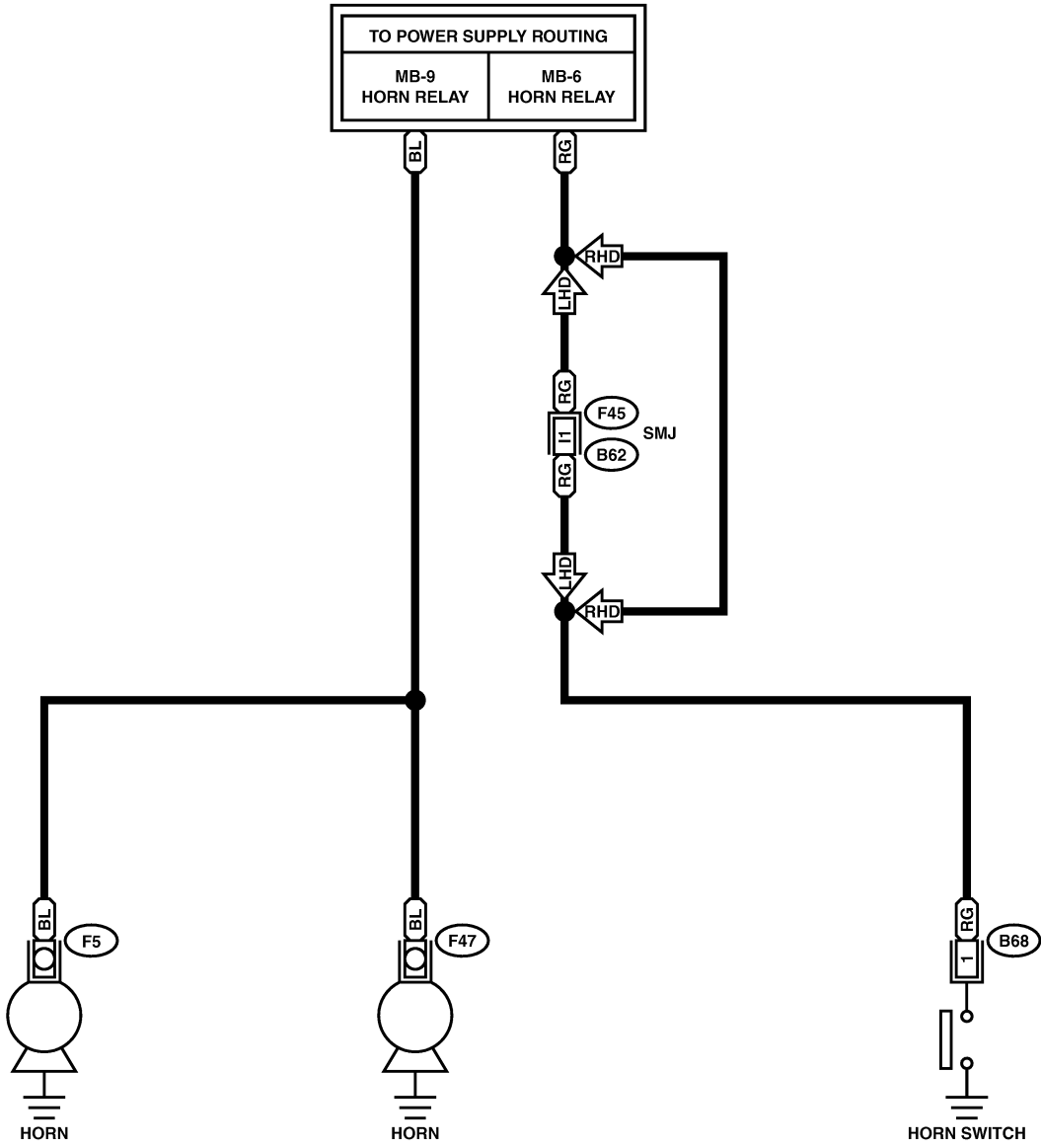


21. Horn System S903436

A: SCHEMATIC S903436A21

HORN-01

HORN-01



(B68) (BLACK)

1	2
3	5

IMMOBILIZER SYSTEM

Wiring System

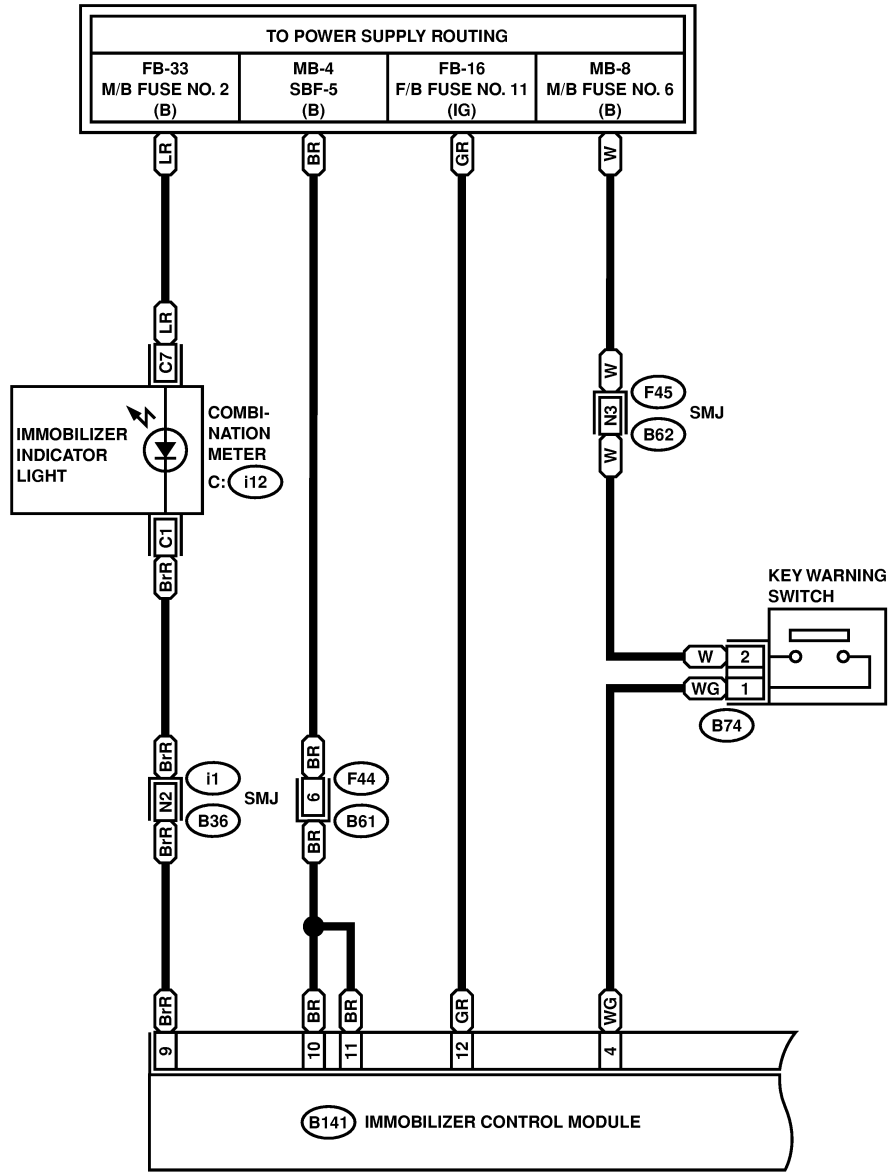
22. Immobilizer System S903346

A: SCHEMATIC S903346A21

1. LHD MODEL S903346A2101

IMB(L)-01

IMB(L)-01



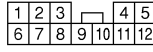
B74 (BLACK)



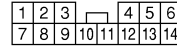
F44



B141

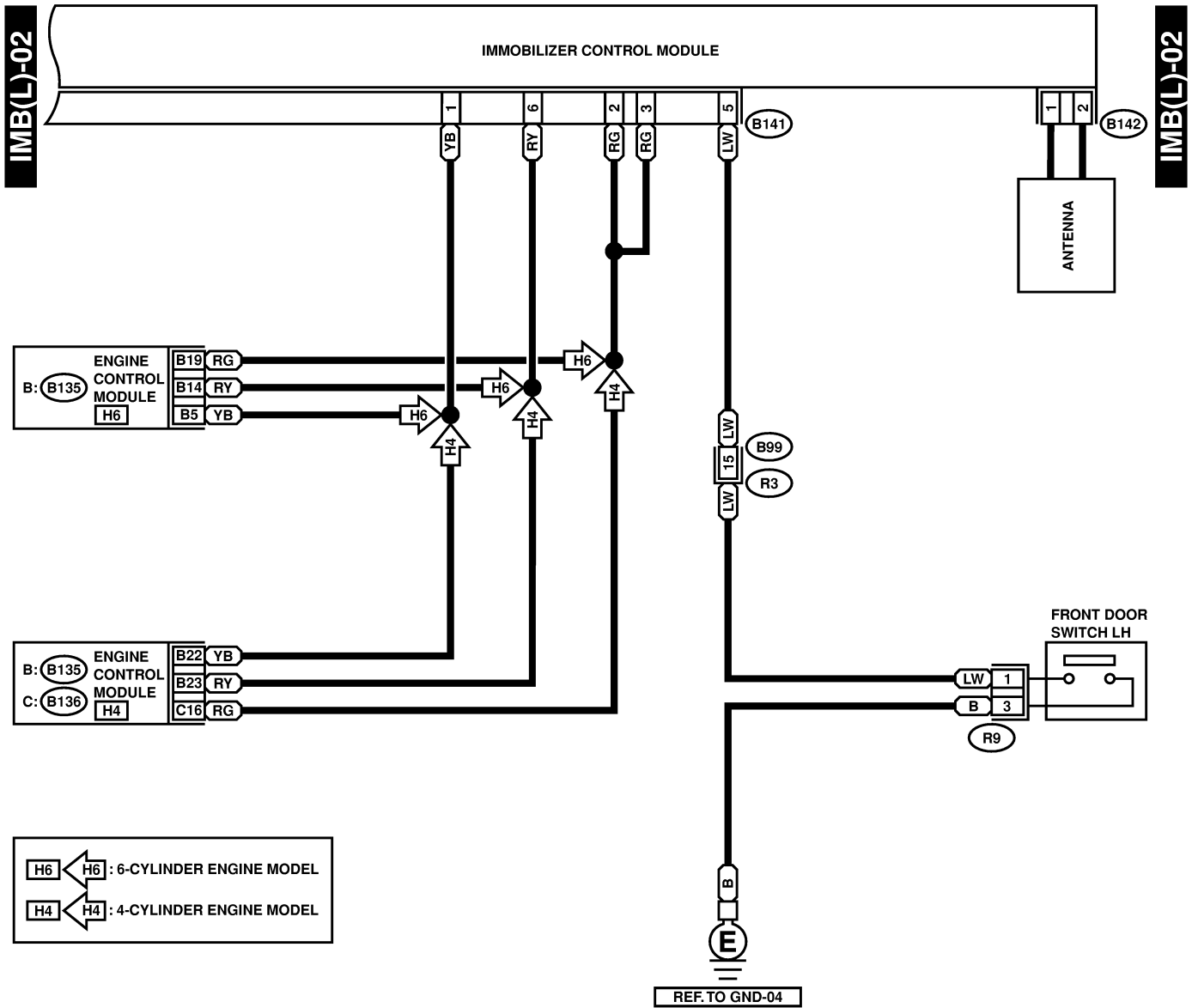


C: i12 (GREEN)



IMMOBILIZER SYSTEM

Wiring System



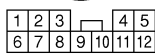
B142



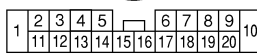
R9



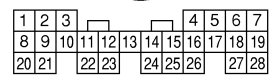
B141



B99



B: (B135) H4



B: (B135) H6



C: (B136)



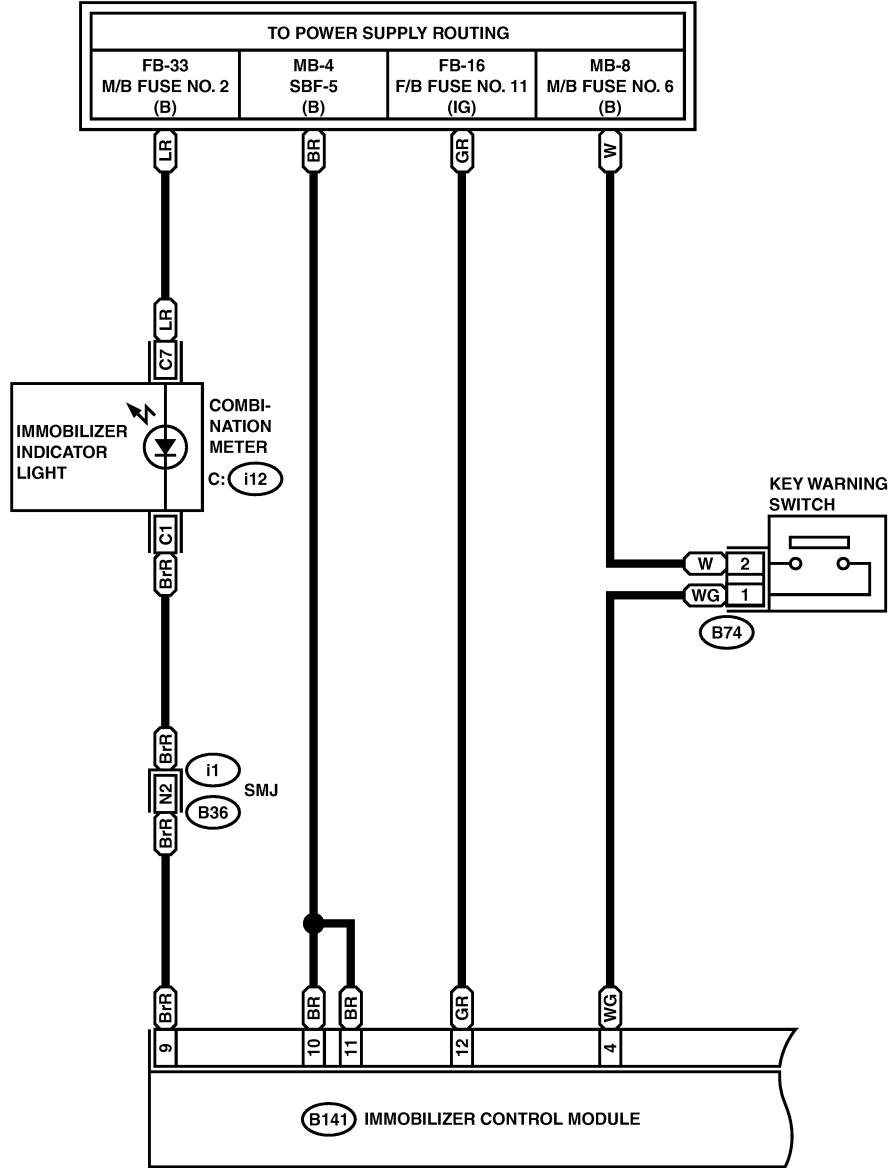
IMMOBILIZER SYSTEM

Wiring System

2. RHD MODEL S903346A2102

IMB(R)-01

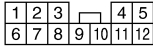
IMB(R)-01



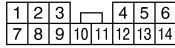
B74 (BLACK)



B141

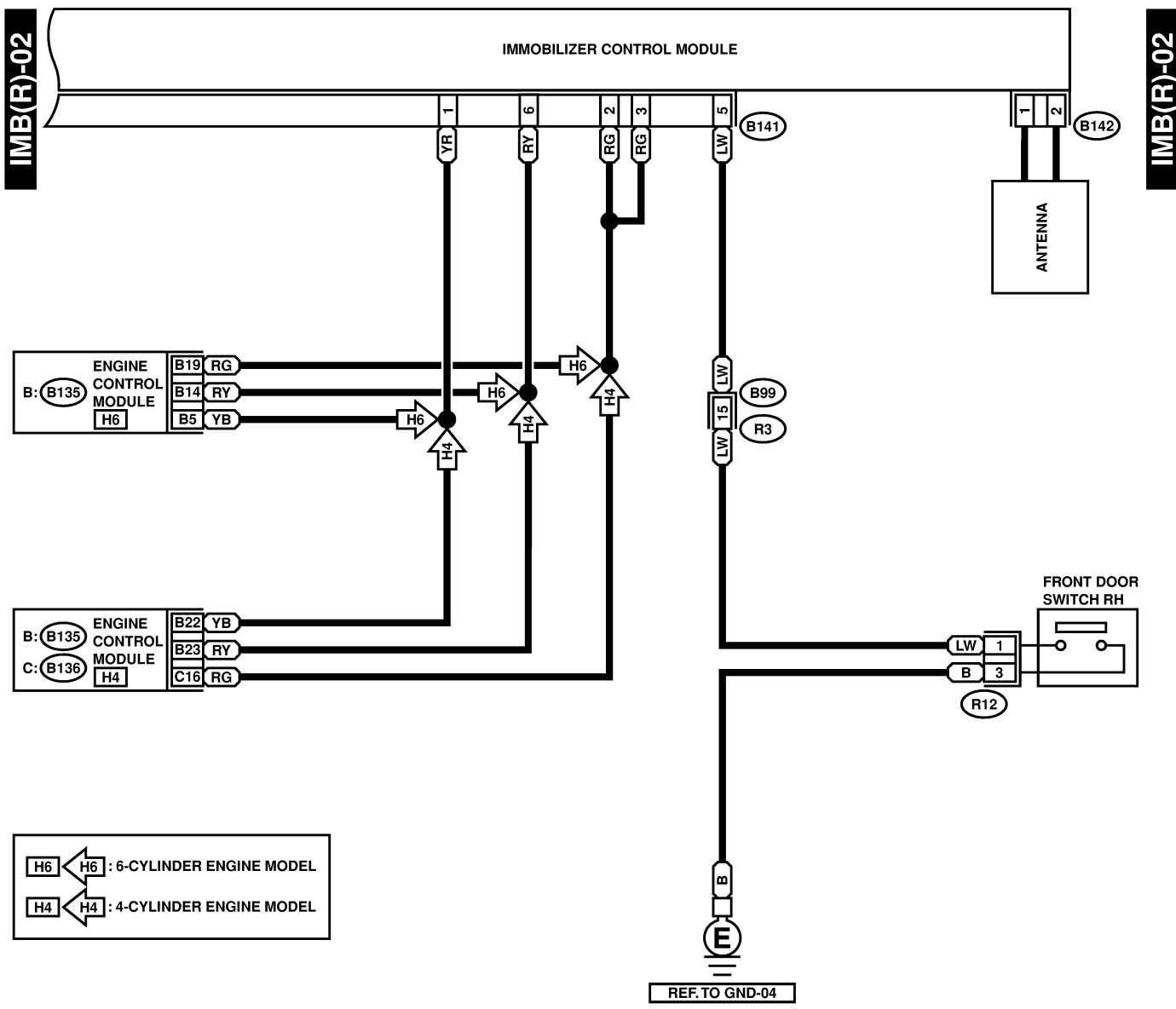


C: i12 (GREEN)



IMMOBILIZER SYSTEM

Wiring System



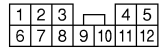
B142



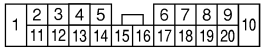
R12



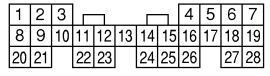
B141



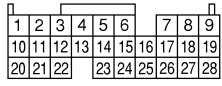
R3



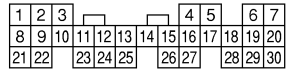
B: (B135) H4



B: (B135) H6



C: (B136)



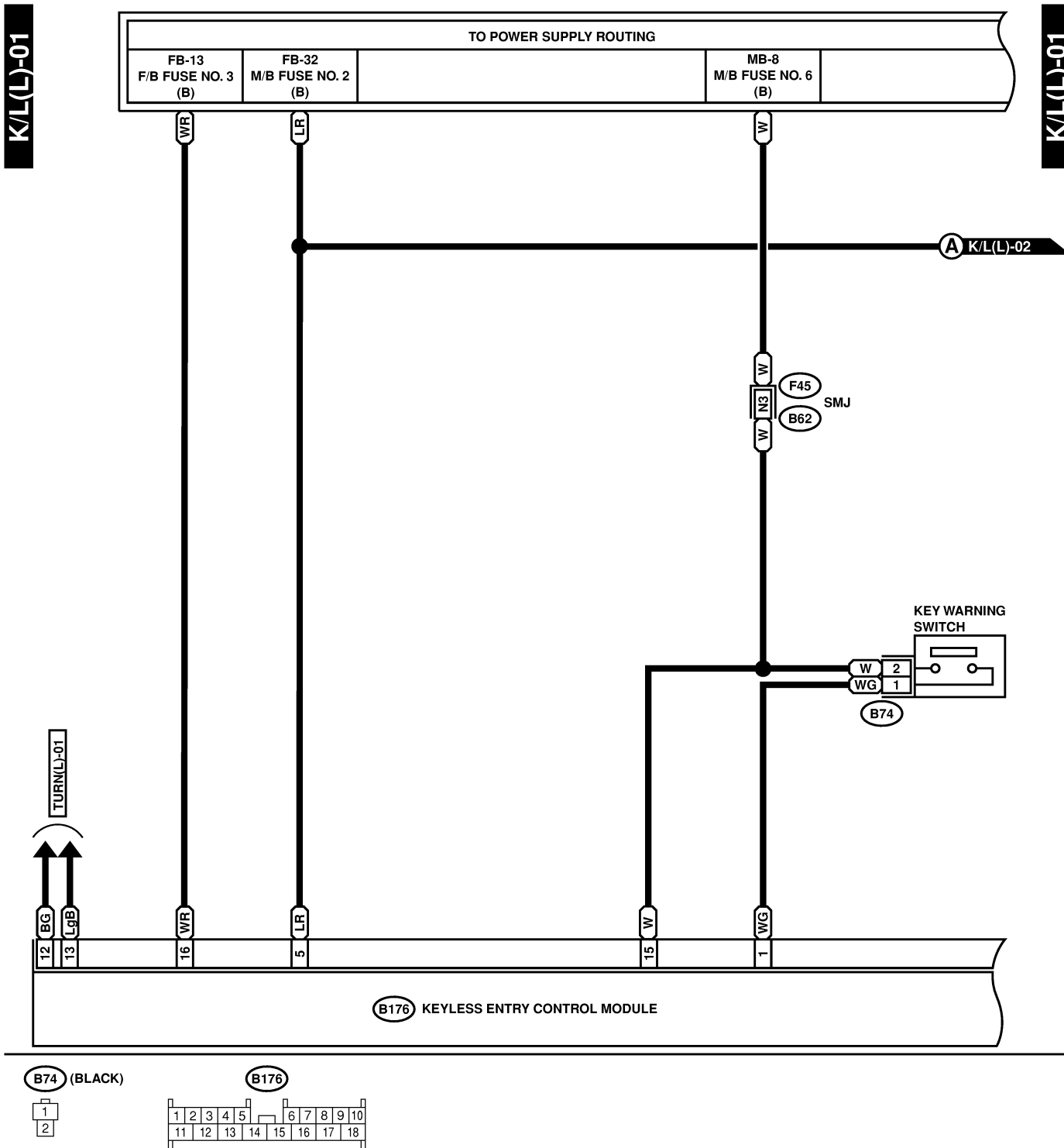
KEYLESS ENTRY SYSTEM

Wiring System

23. Keyless Entry System S903345

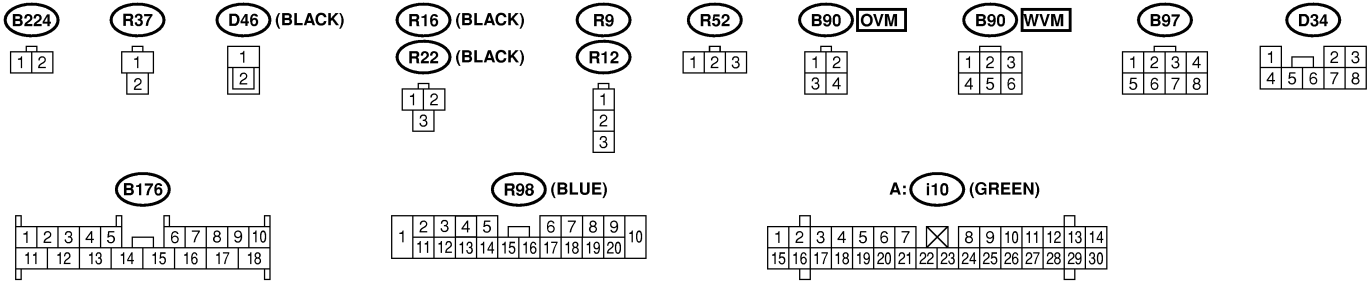
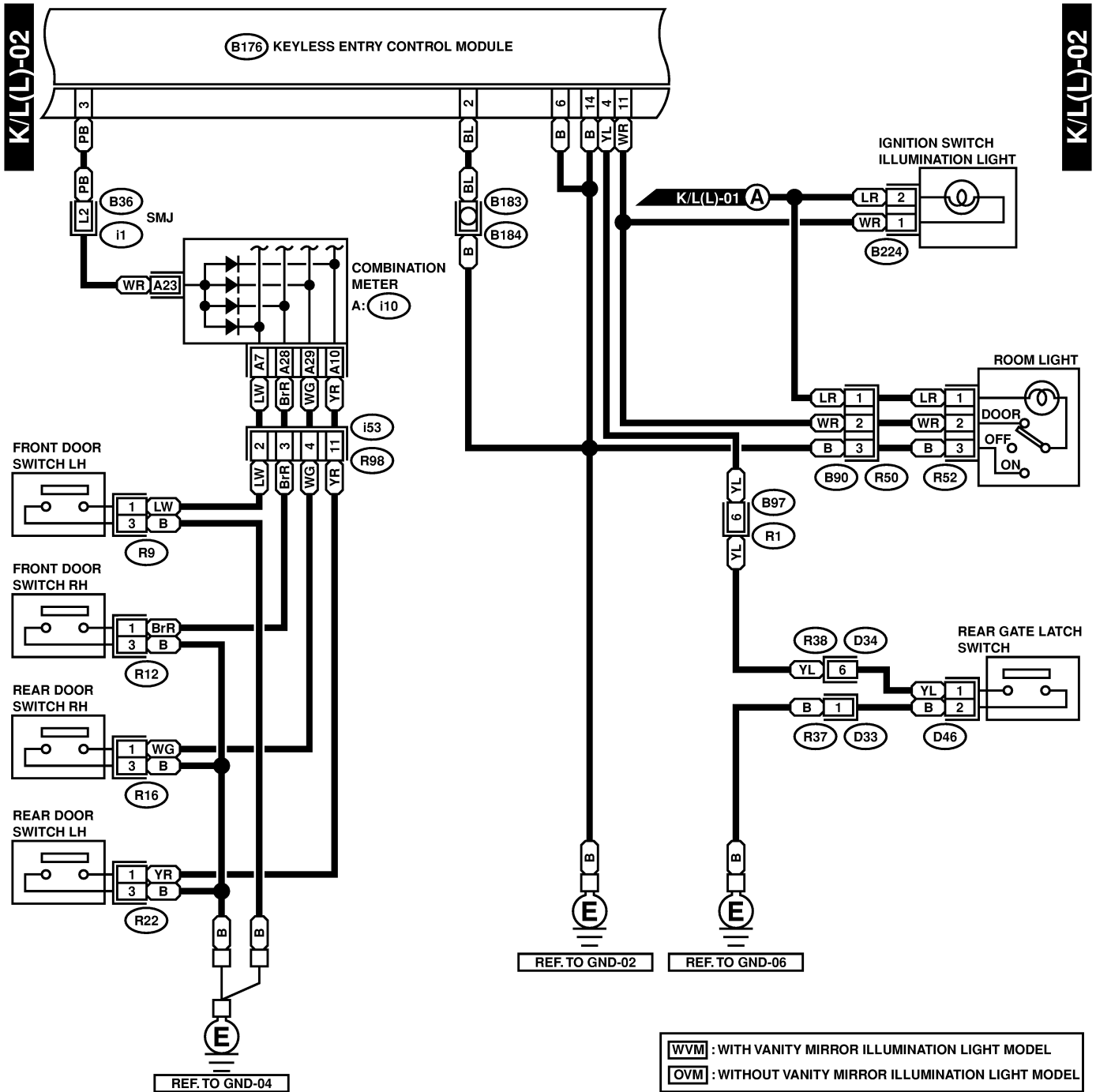
A: SCHEMATIC S903345A21

1. LHD MODEL S903345A2101



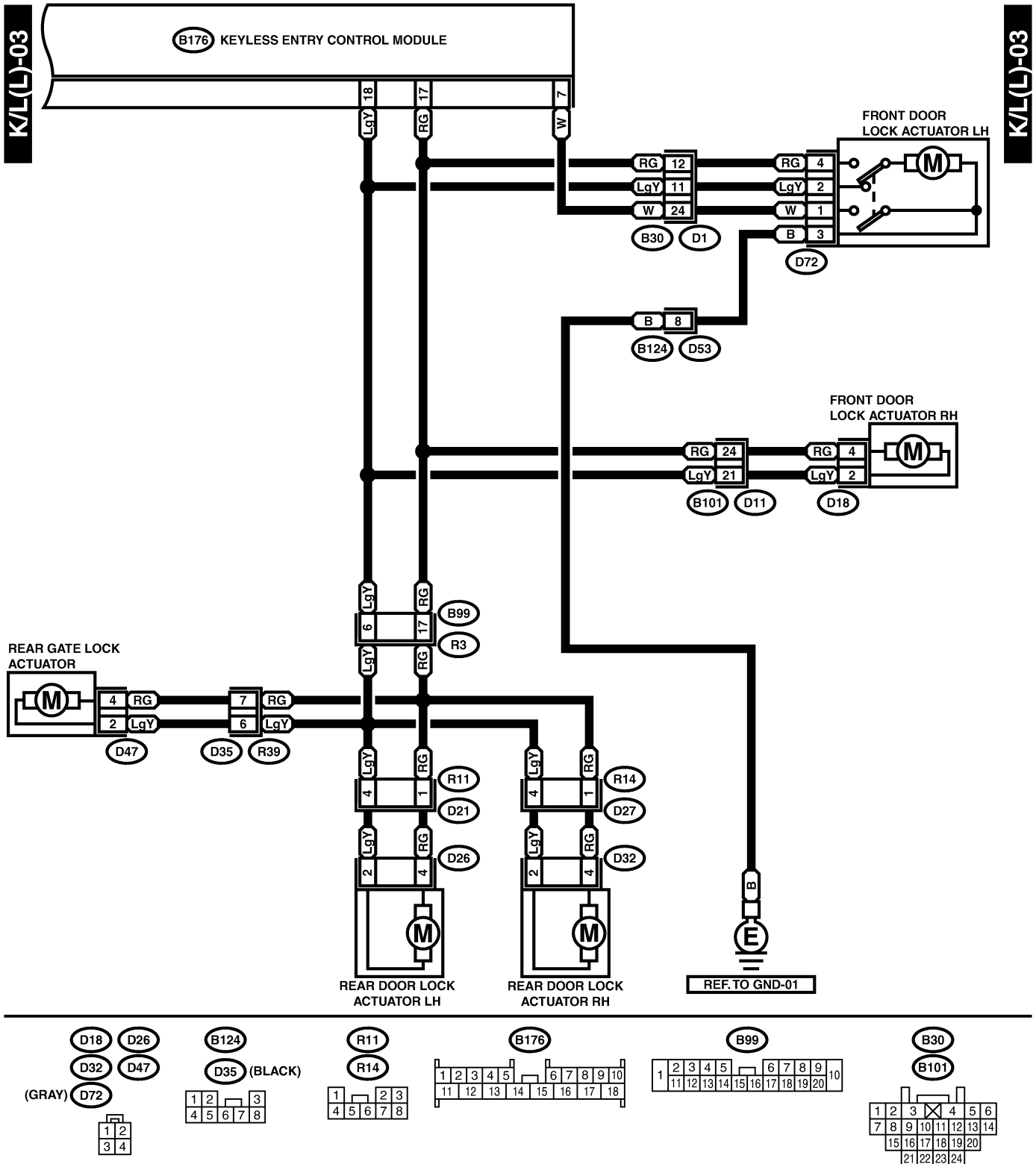
KEYLESS ENTRY SYSTEM

Wiring System



KEYLESS ENTRY SYSTEM

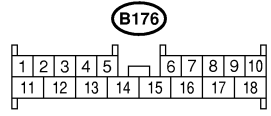
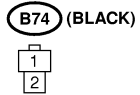
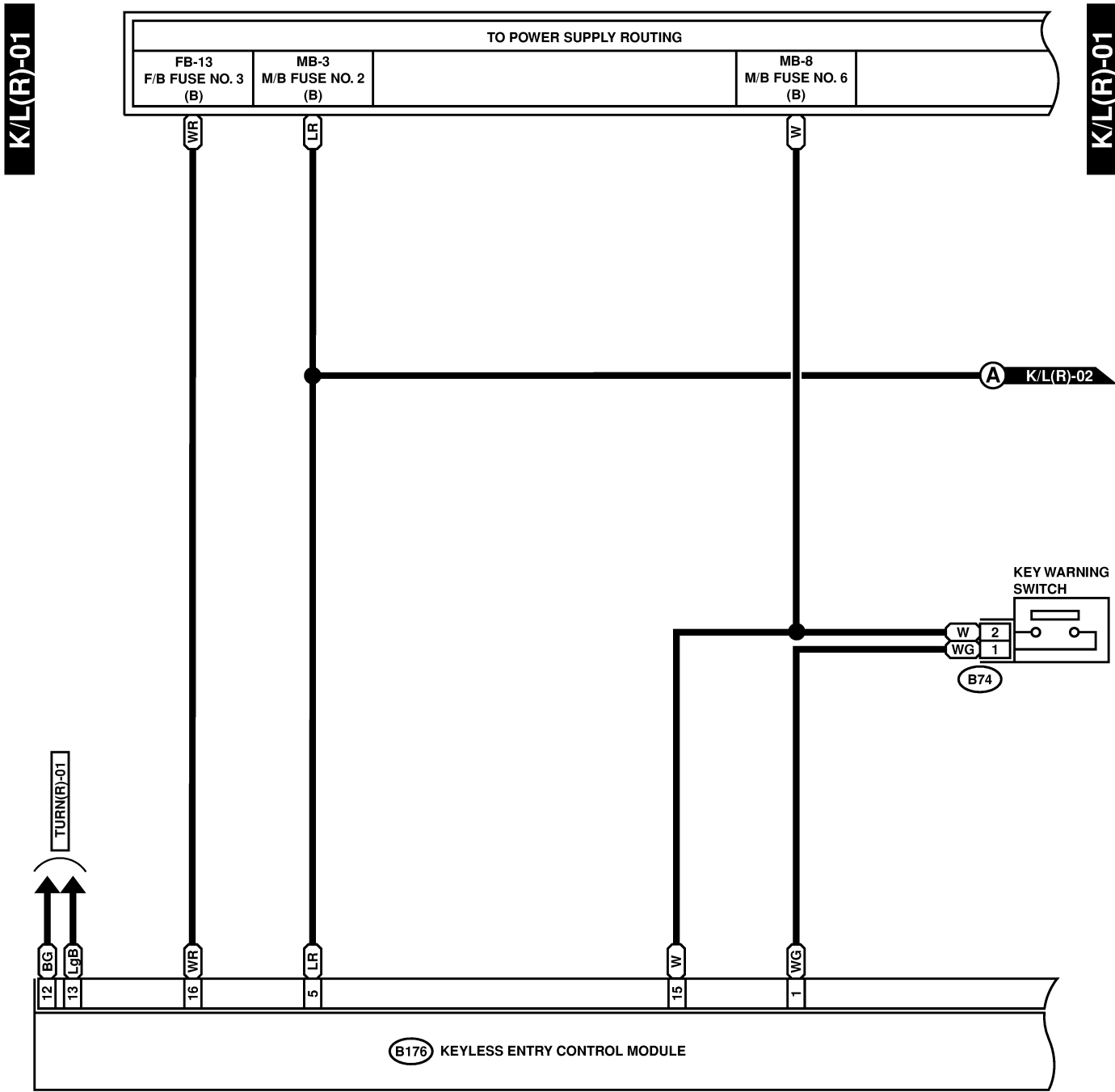
Wiring System



KEYLESS ENTRY SYSTEM

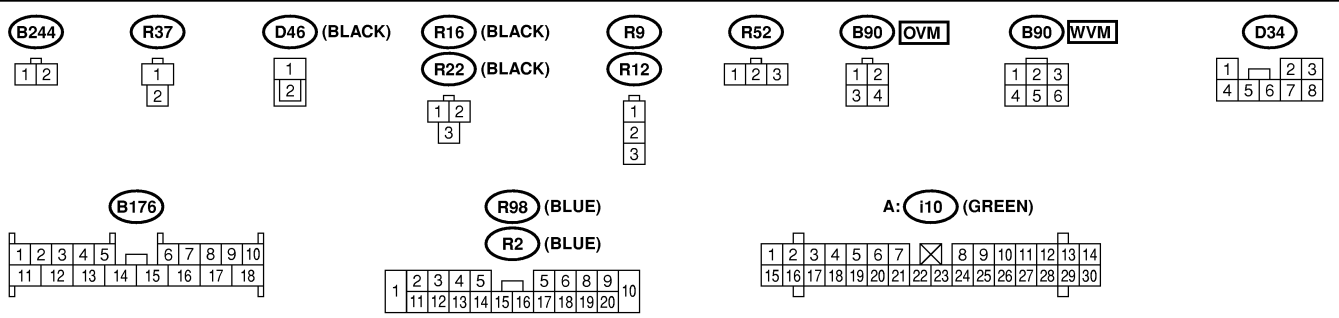
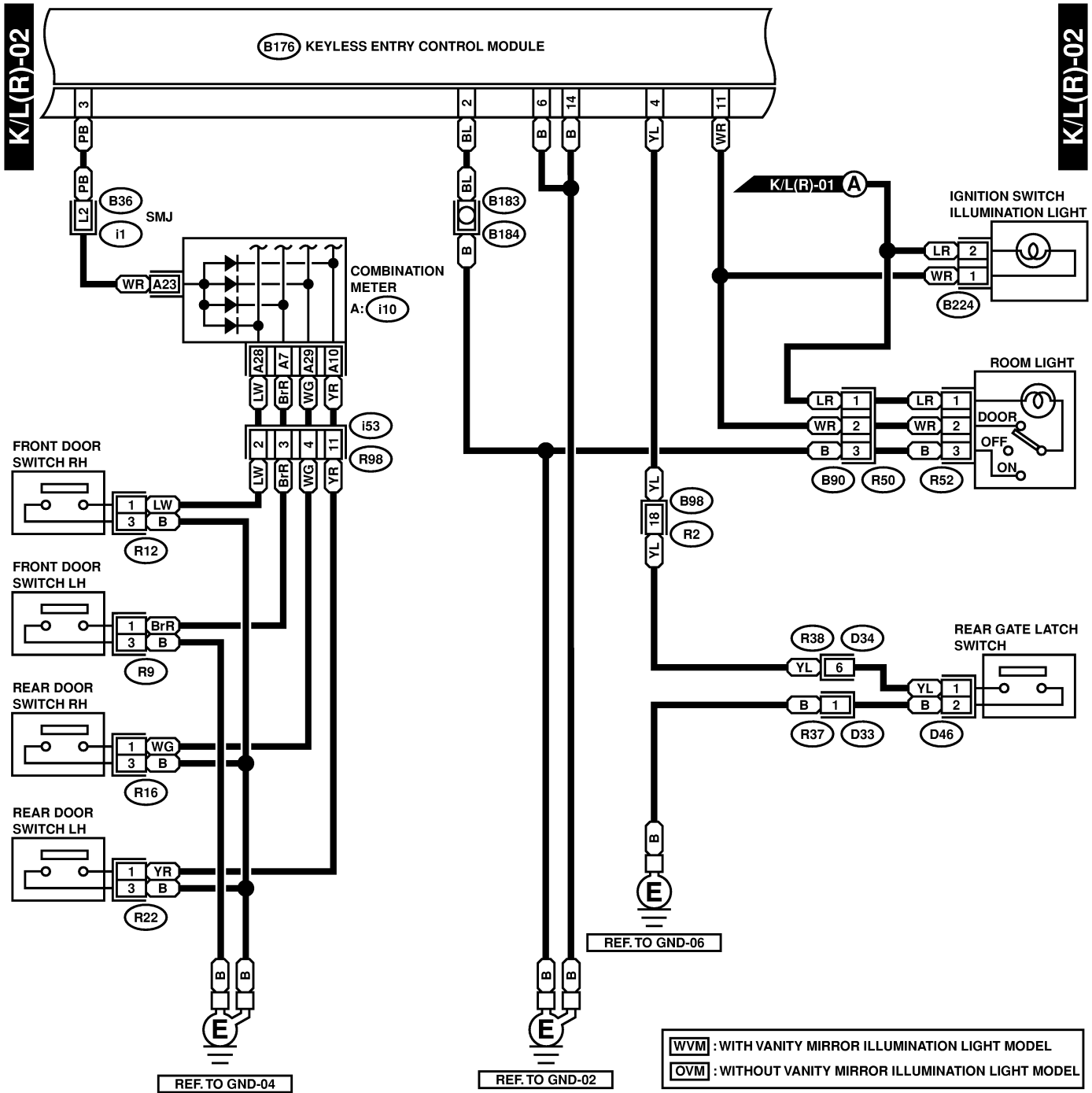
Wiring System

2. RHD MODEL S903345A2102



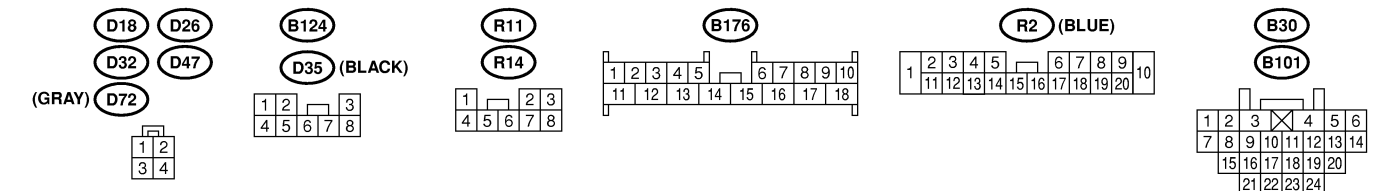
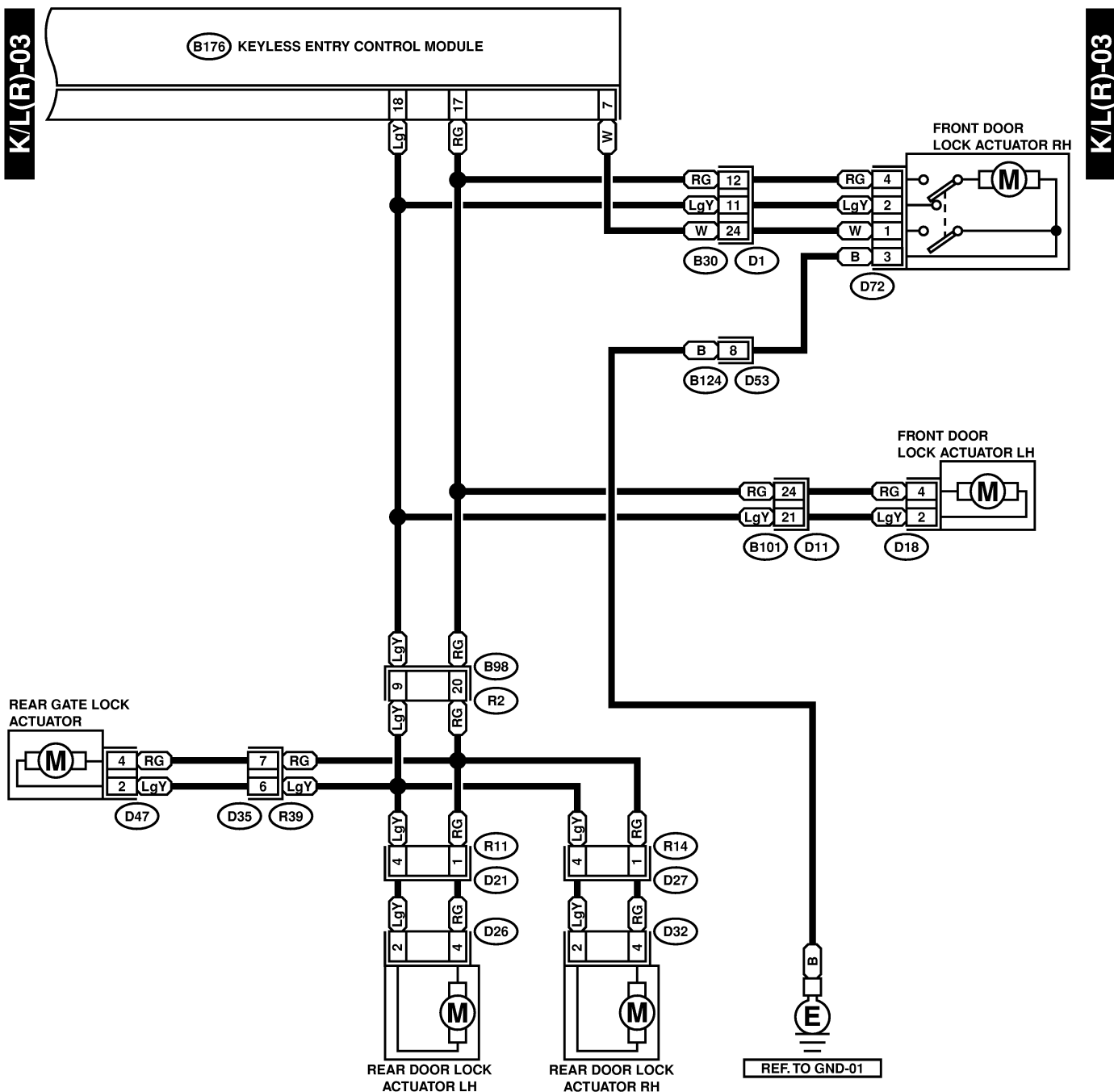
KEYLESS ENTRY SYSTEM

Wiring System



KEYLESS ENTRY SYSTEM

Wiring System



BACK-UP LIGHT SYSTEM

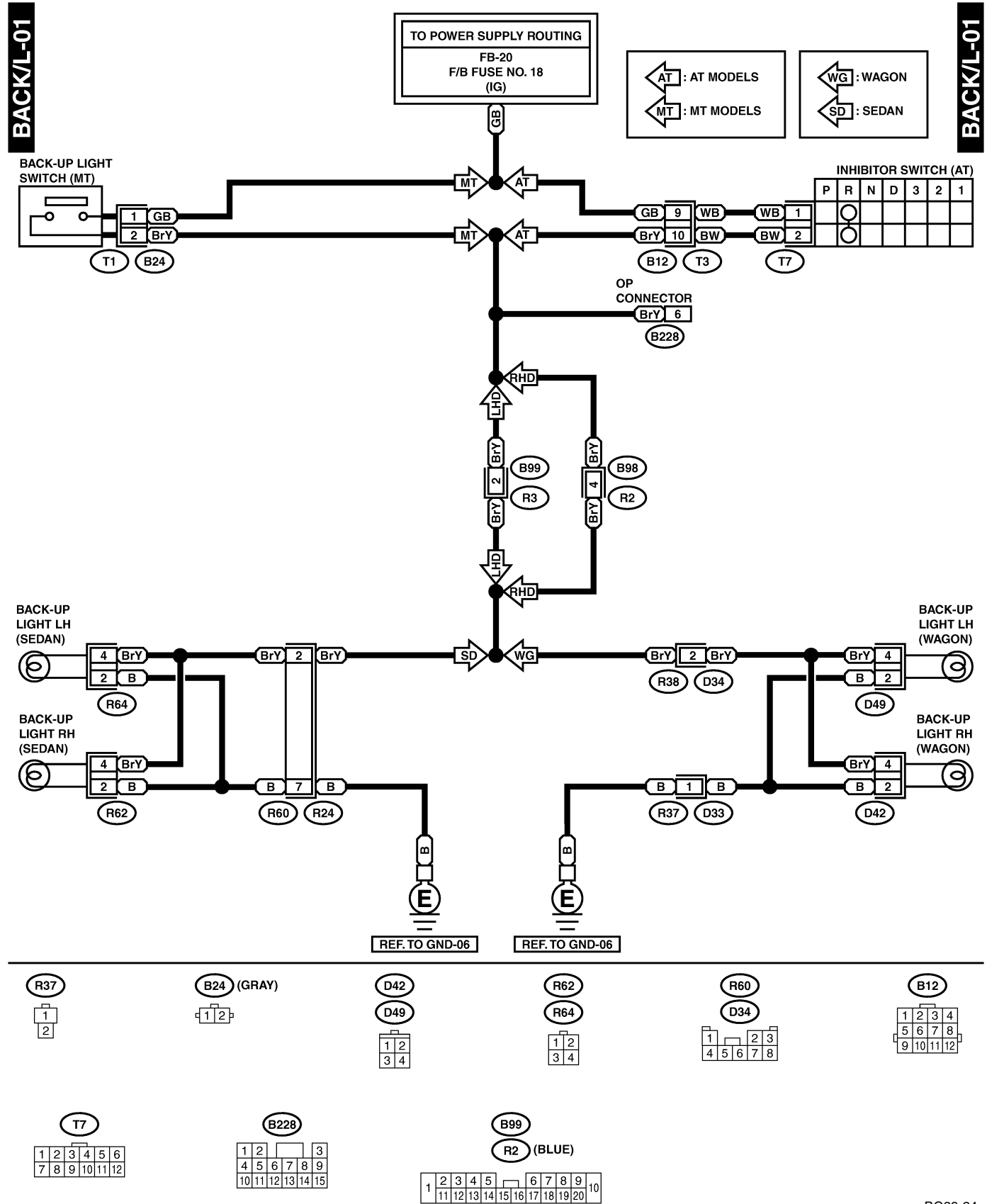
Wiring System

24. Back-up Light System

S903414

A: SCHEMATIC

S903414A21



BG29-24

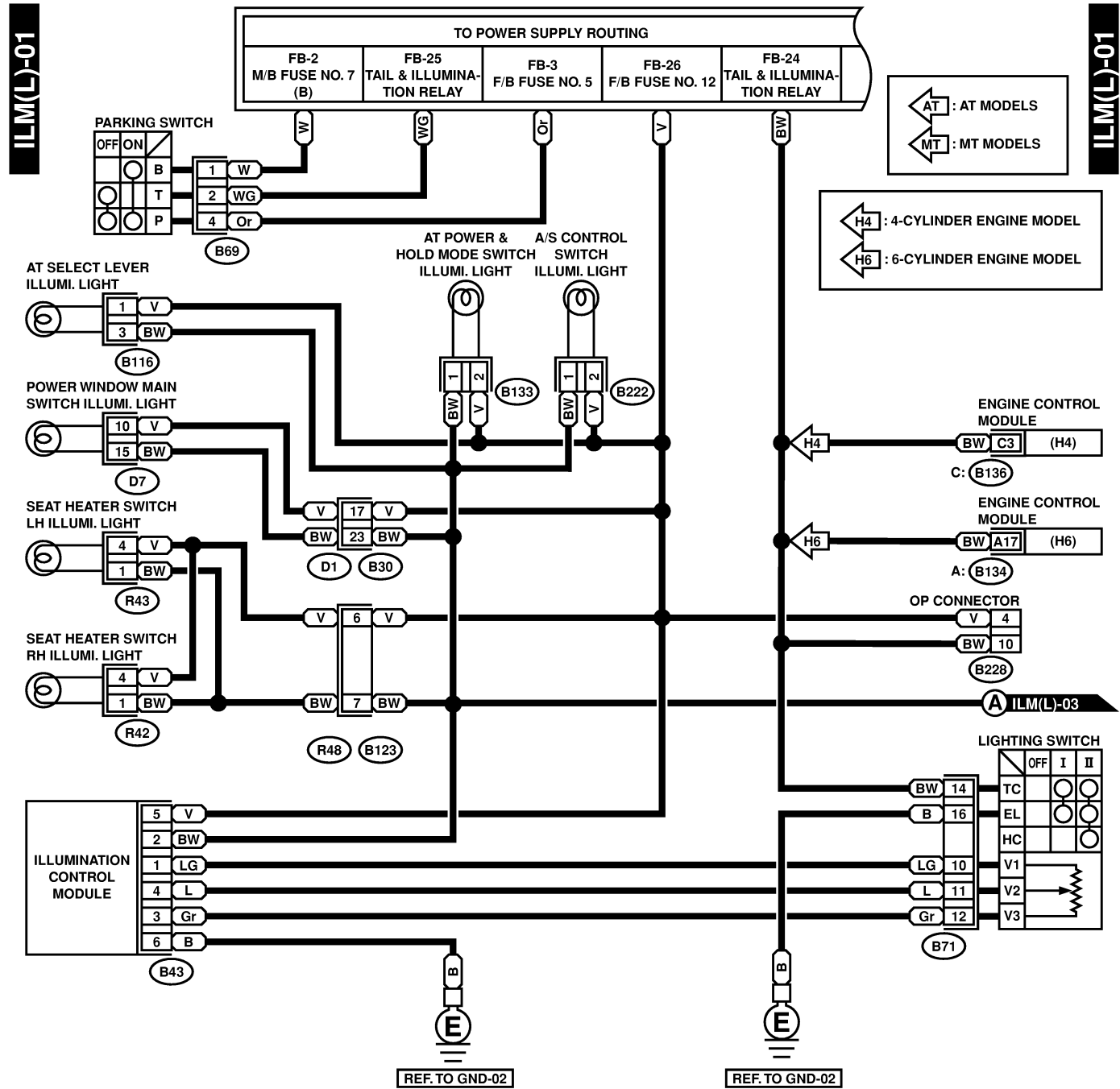
25. Clearance Light and Illumination Light System S903489

A: SCHEMATIC S903489A21

CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

Wiring System

1. LHD MODEL S903489A2101



B69



R42



R43 (BLUE)



B43 (BLACK)



B116



B133



B222 (BLACK)

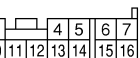
B123



B228



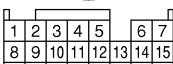
D7 (BROWN)



B71



A: B134



B30



C: B136

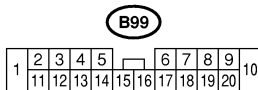
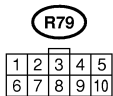
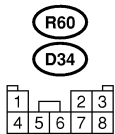
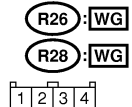
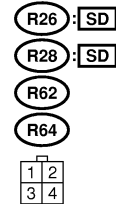
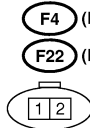
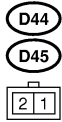
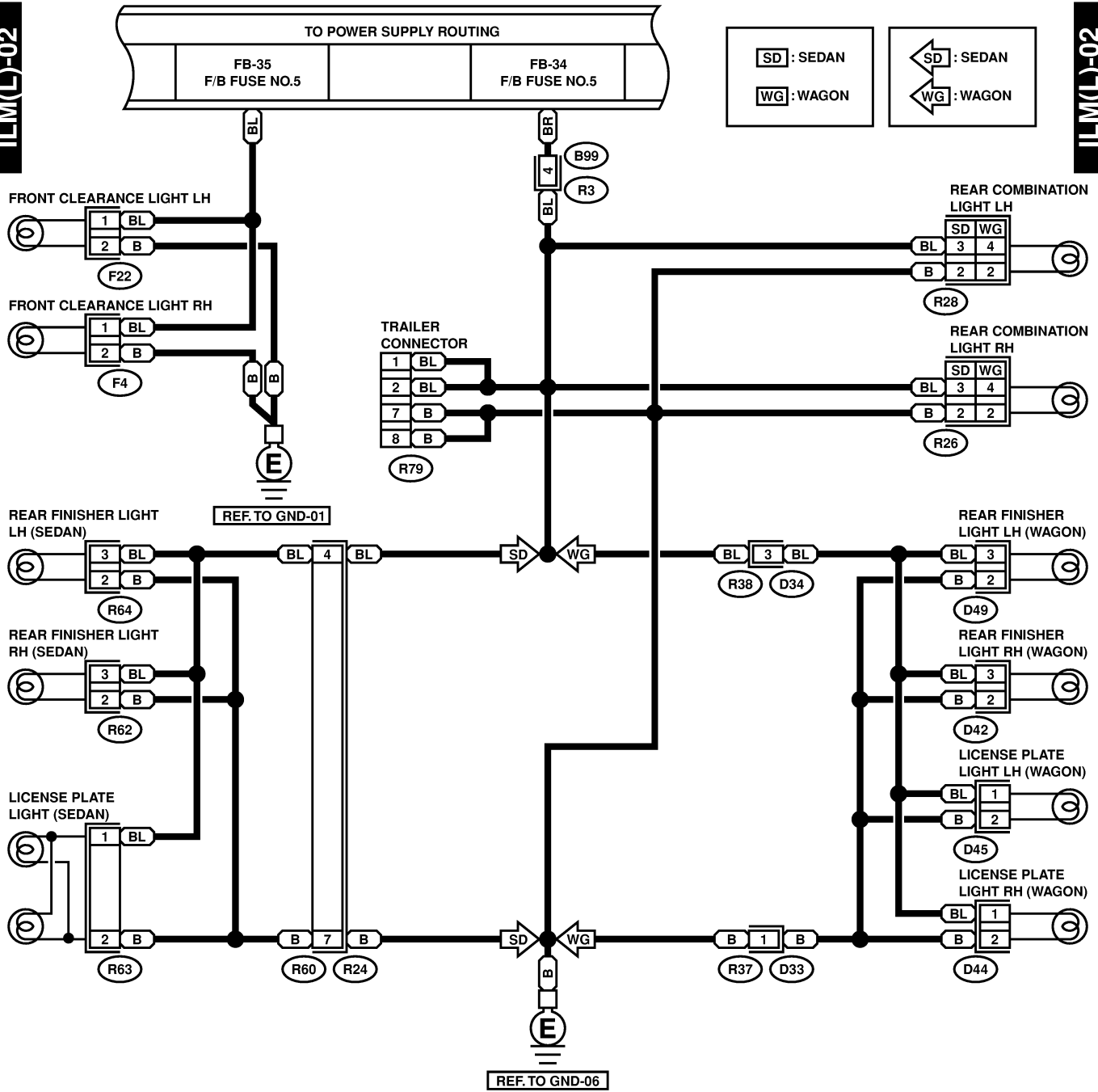


CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

Wiring System

ILM(L)-02

ILM(L)-02

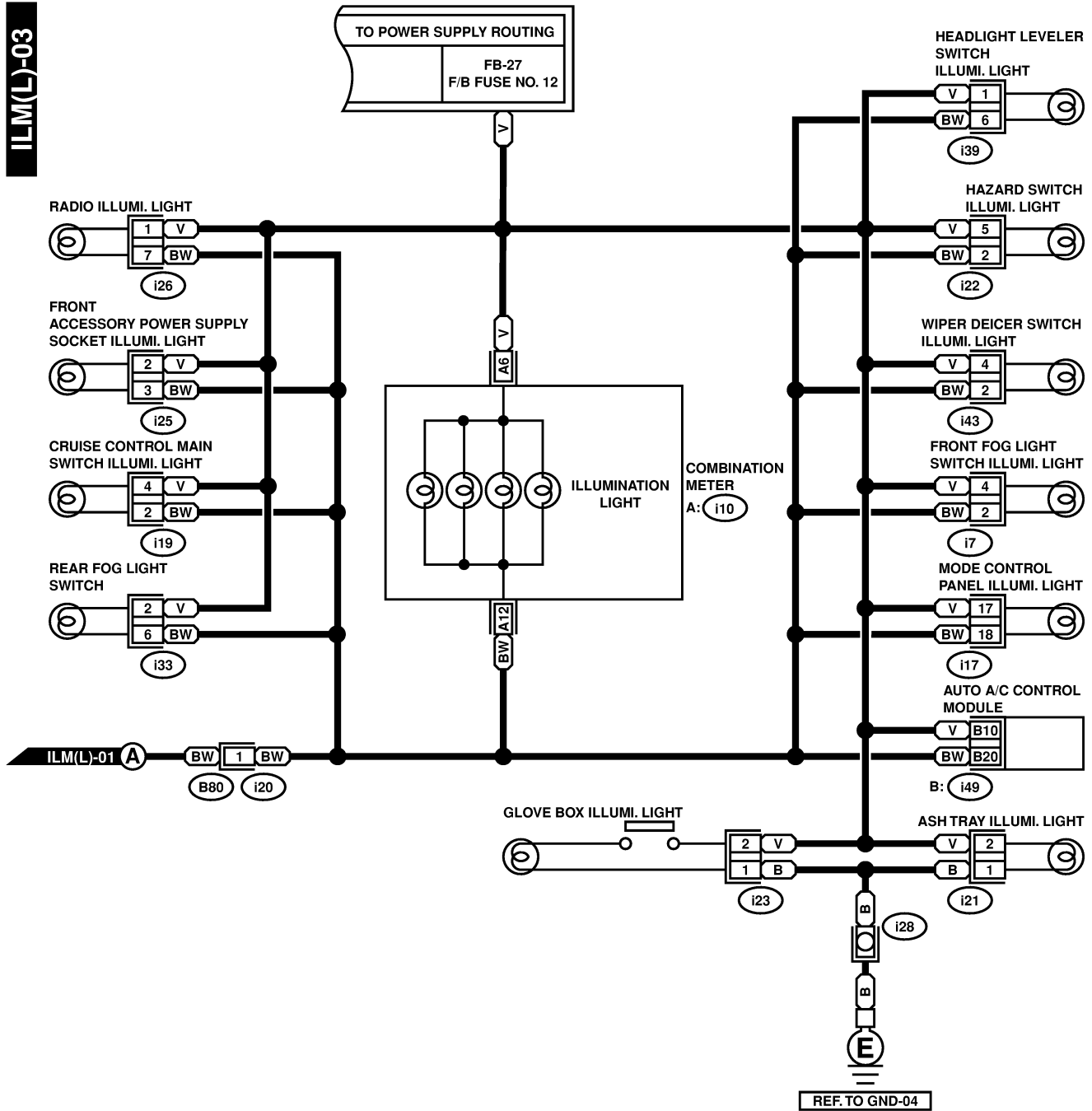


CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

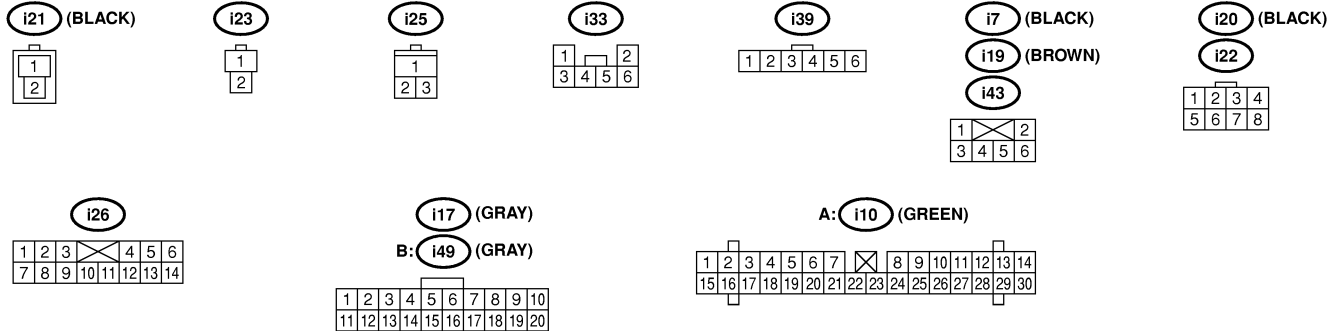
Wiring System

ILM(L)-03

ILM(L)-03



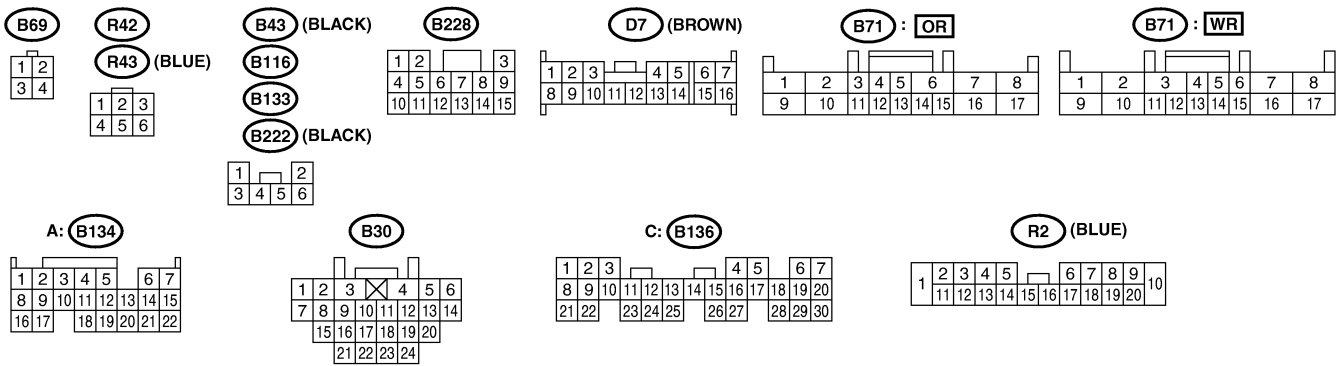
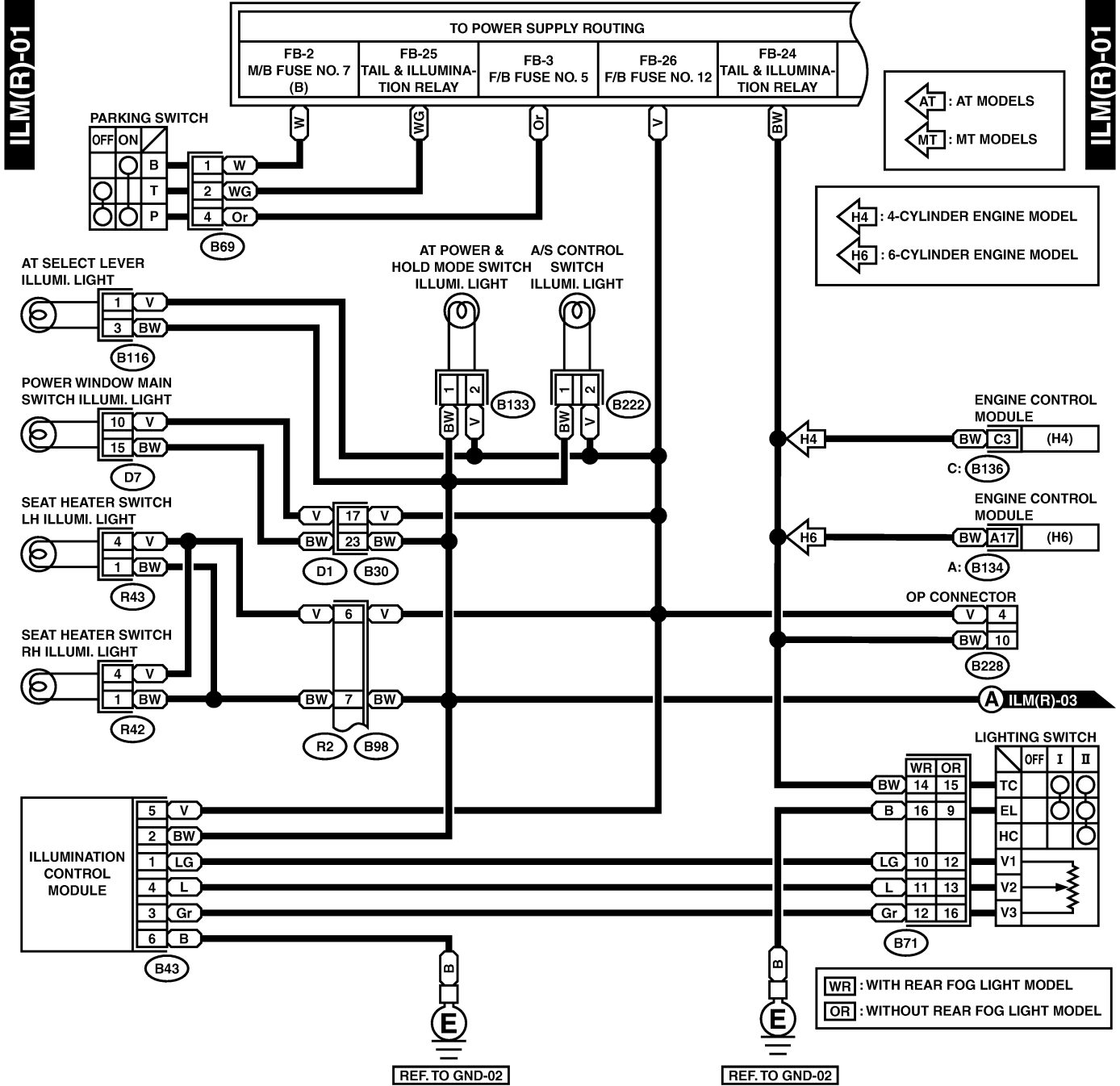
REF. TO GND-04



CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

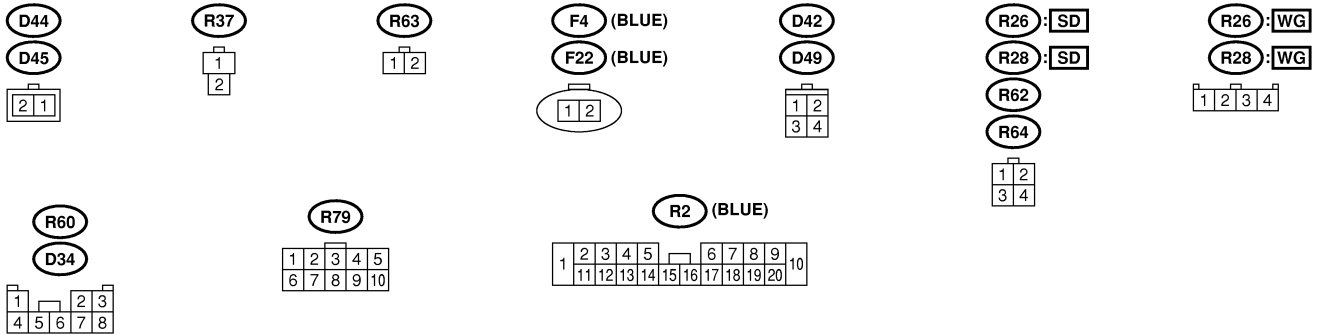
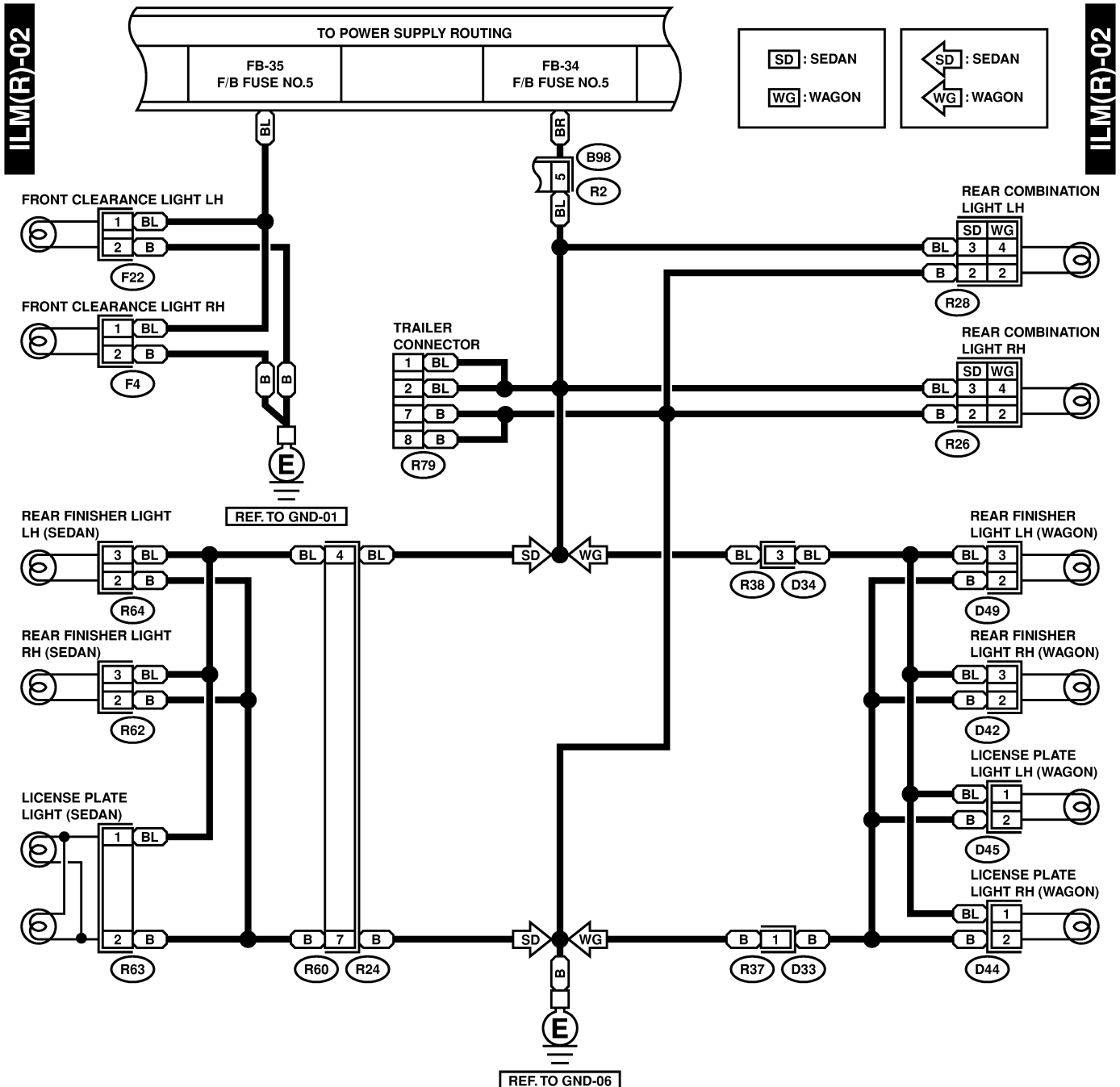
Wiring System

2. RHD MODEL S903489A2102



CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

Wiring System

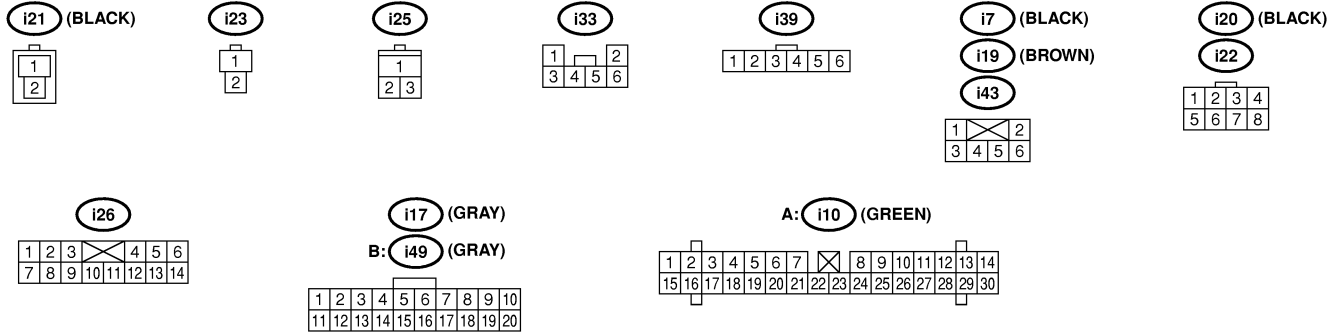
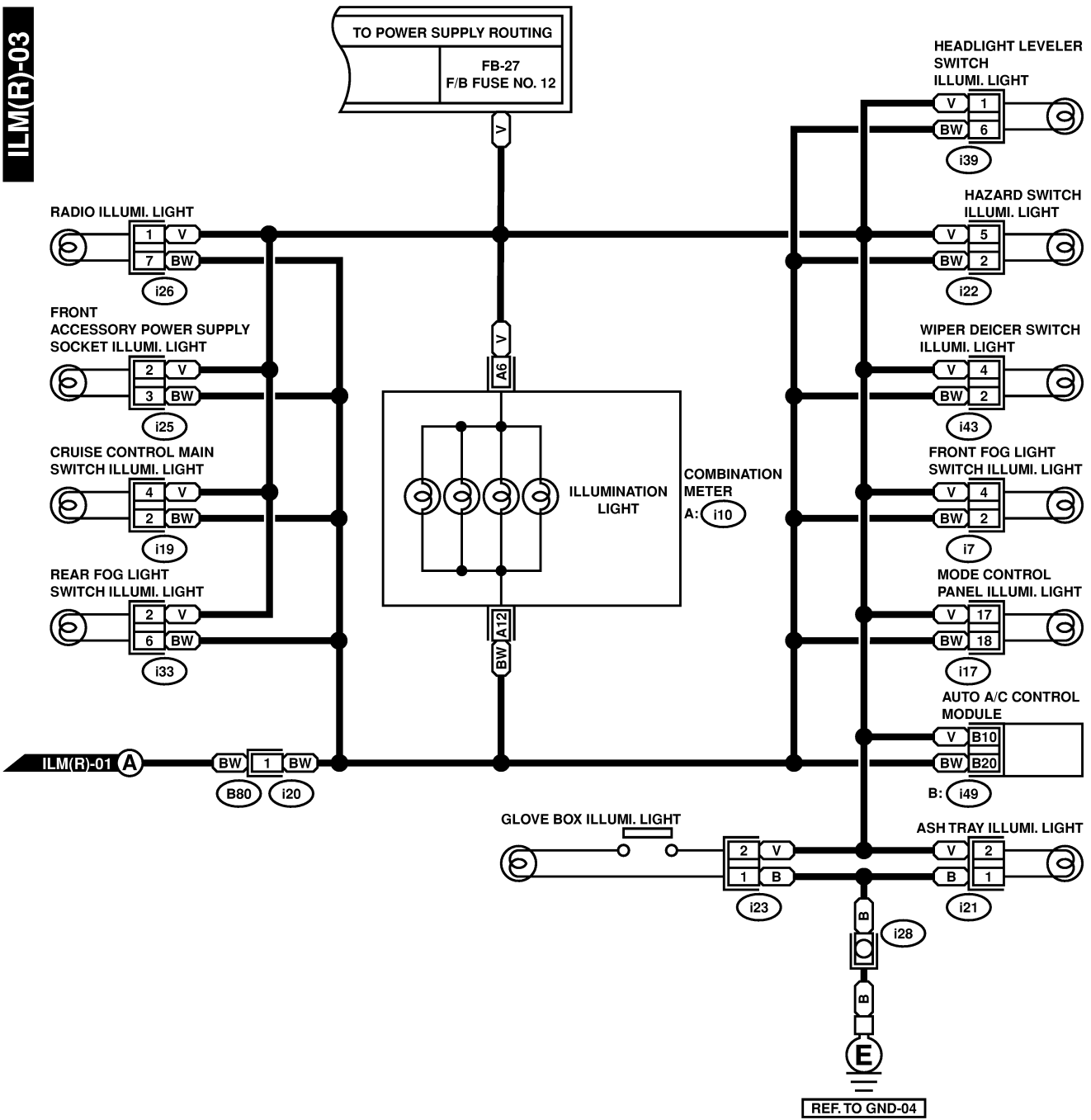


CLEARANCE LIGHT AND ILLUMINATION LIGHT SYSTEM

Wiring System

ILM(R)-03

ILM(R)-03



FRONT FOG LIGHT SYSTEM

Wiring System

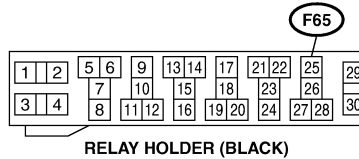
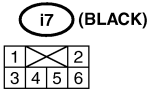
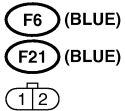
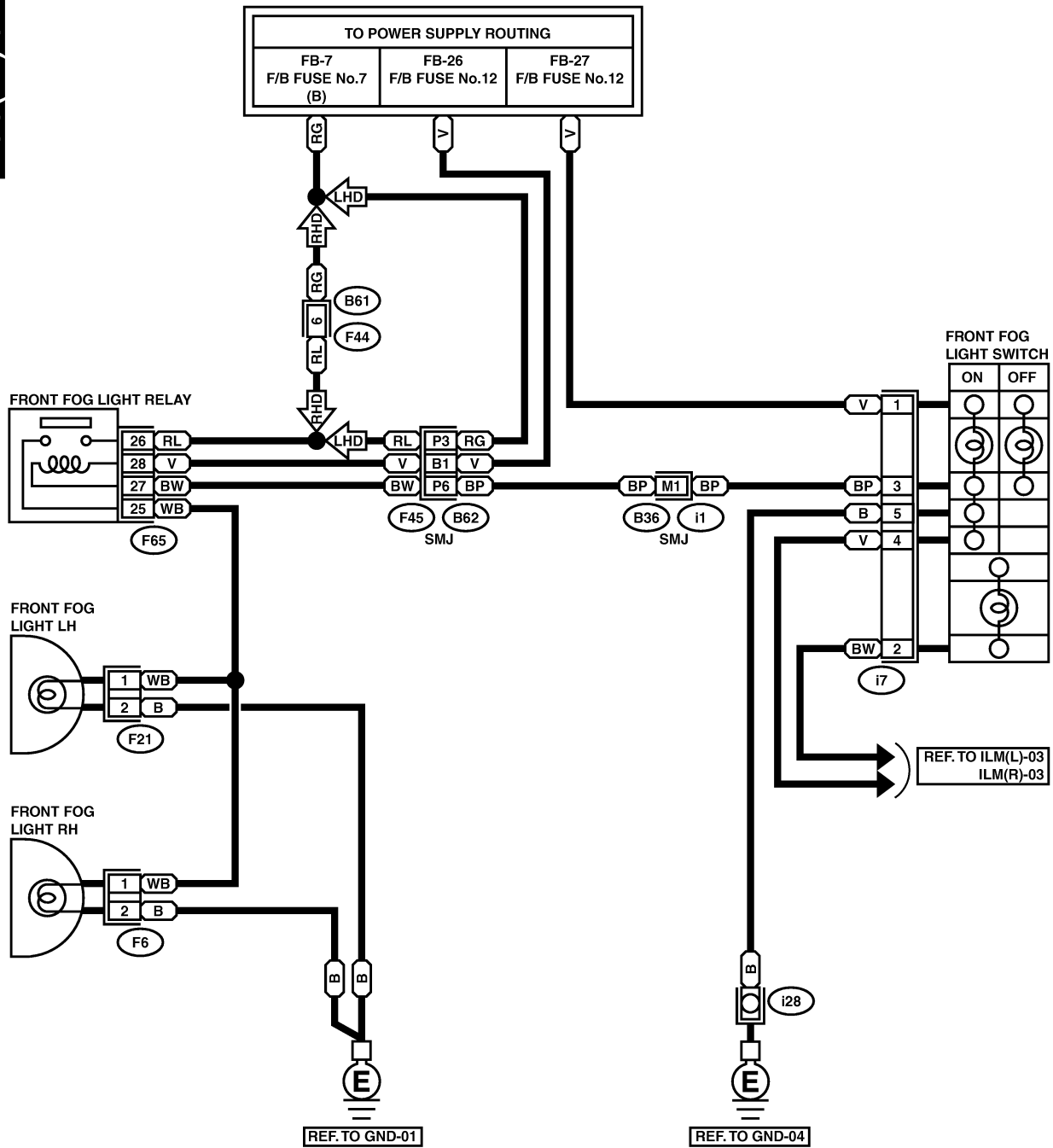
26. Front Fog Light System S903473

A: SCHEMATIC S903473A21

1. H4 MODEL S903473A2107

FOG(H4)-01

FOG(H4)-01



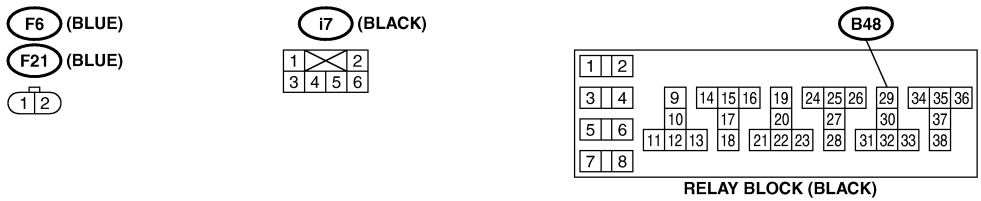
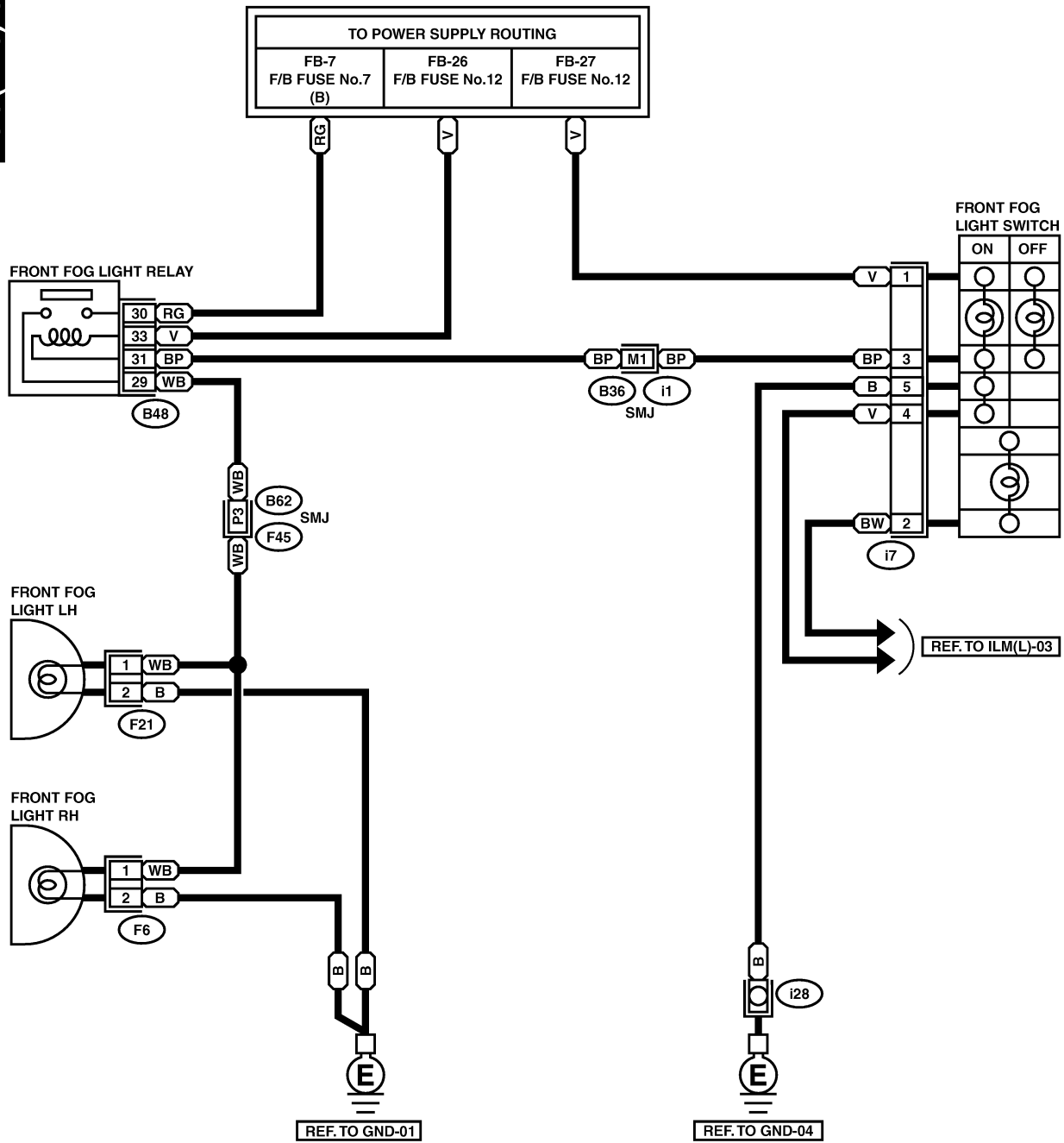
FRONT FOG LIGHT SYSTEM

Wiring System

2. LHD-H6 MODEL S903473A2108

FOG(LH6)-01

FOG(LH6)-01



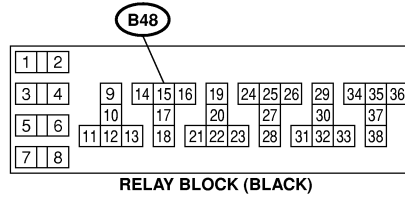
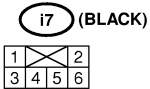
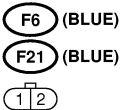
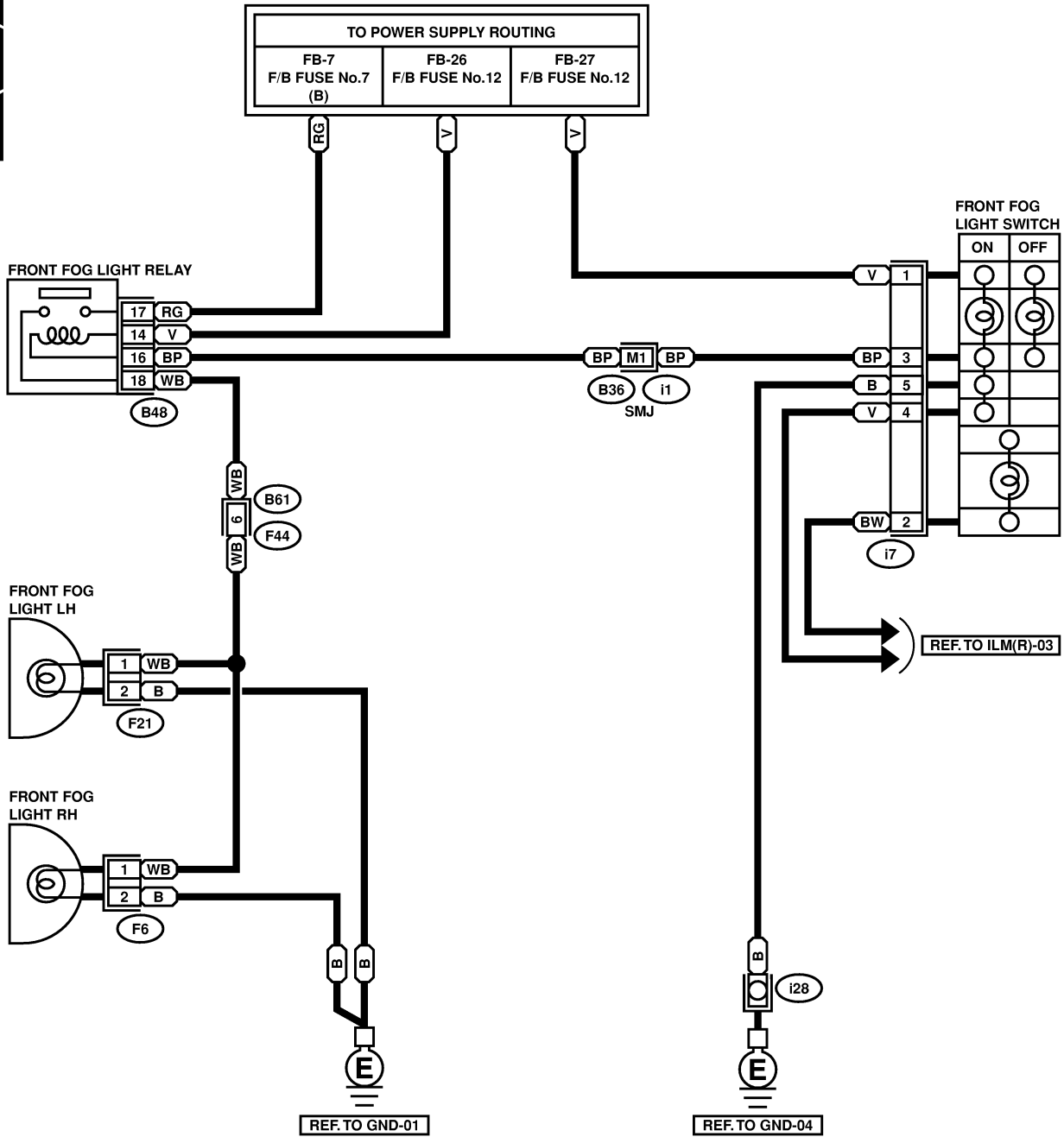
FRONT FOG LIGHT SYSTEM

Wiring System

3. RHD-H6 MODEL S903473A2109

FOG(RH6)-01

FOG(RH6)-01



27. Headlight System

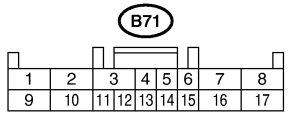
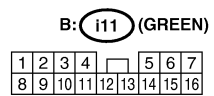
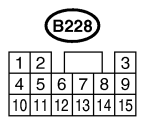
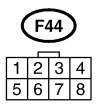
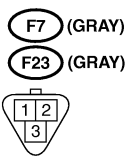
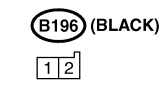
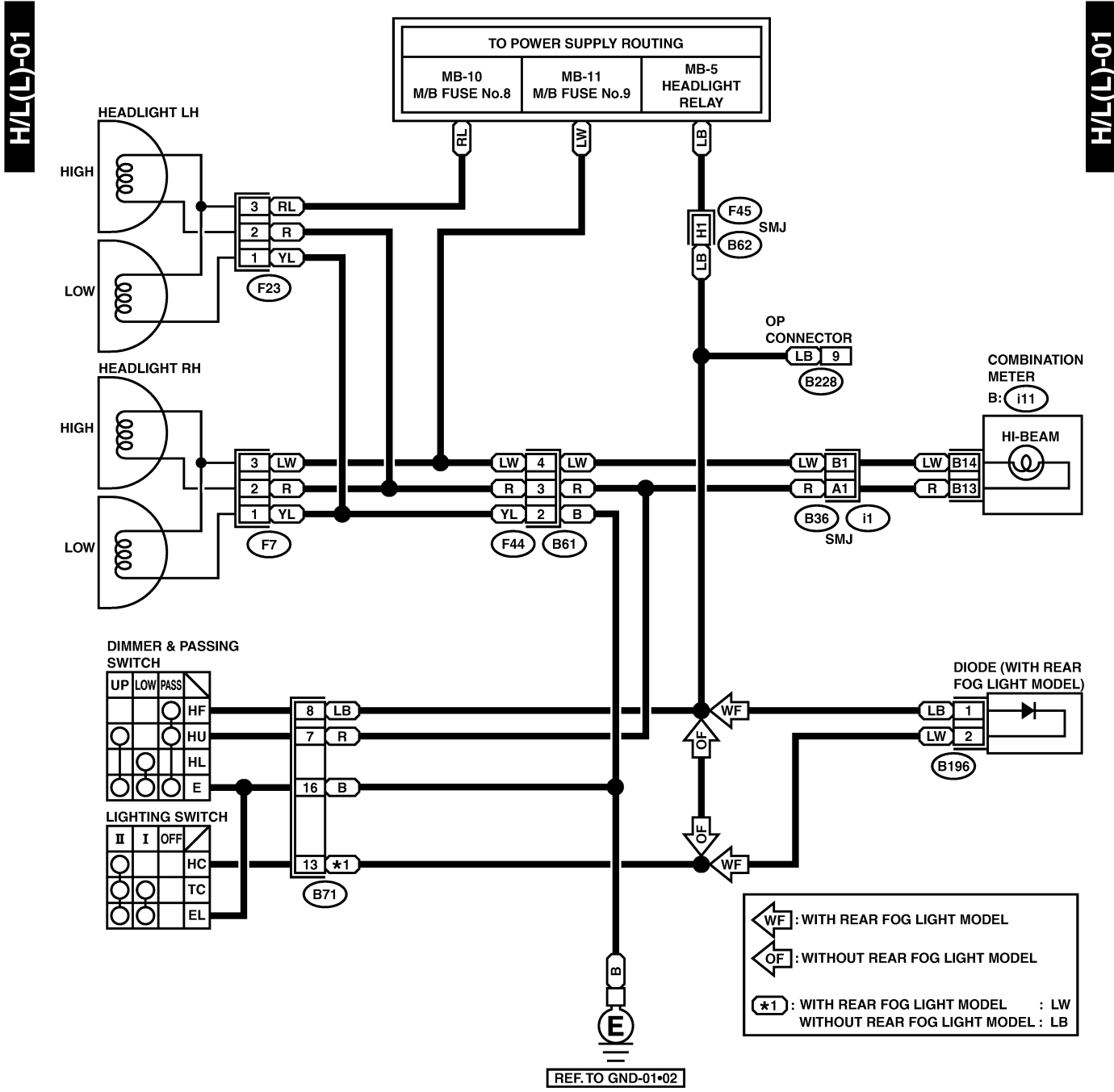
S903474

A: SCHEMATIC

S903474A21

1. LHD MODEL

S903474A2101



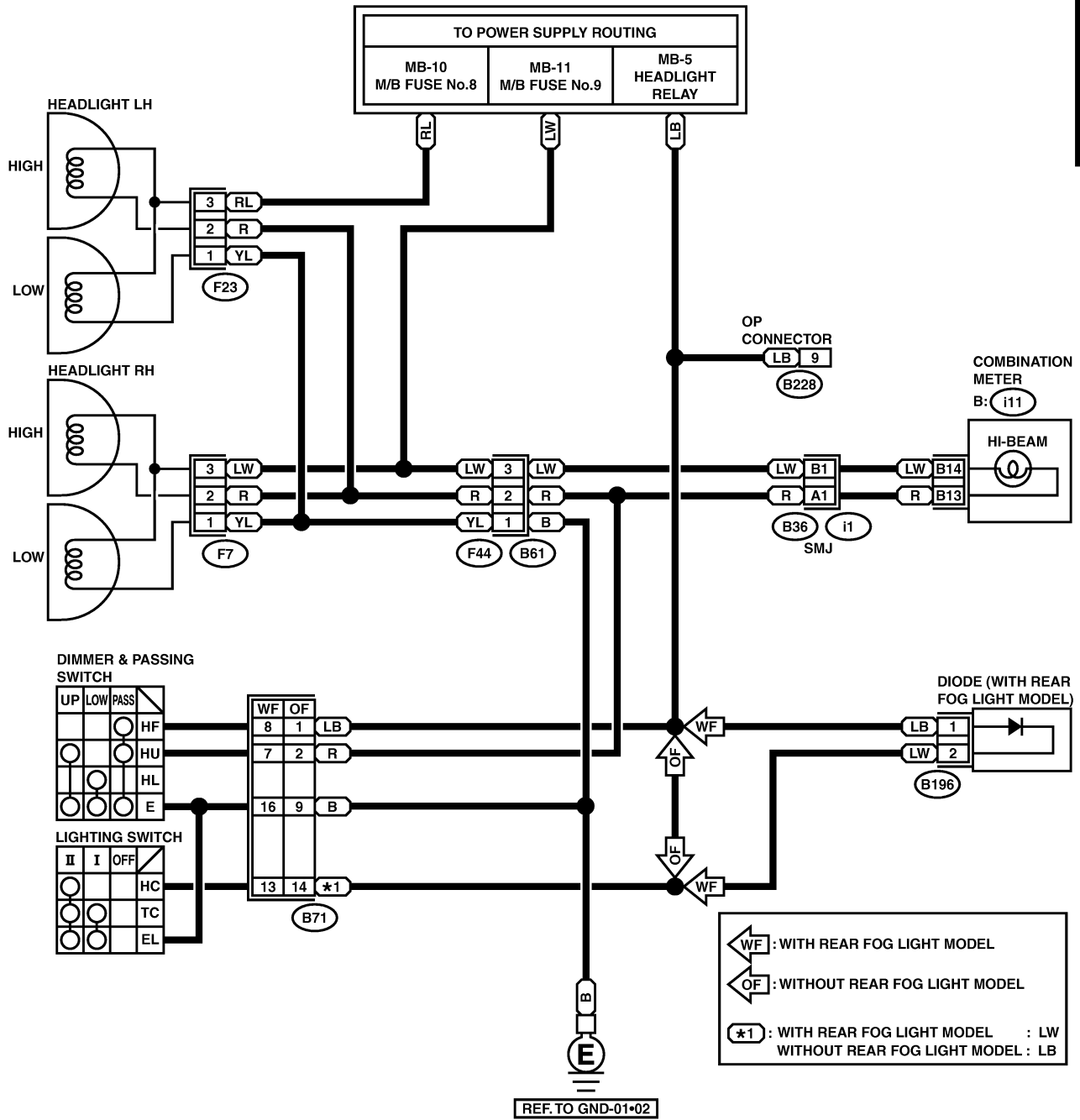
HEADLIGHT SYSTEM

Wiring System

2. RHD MODEL S903474A2102

H/L(R)-01

H/L(R)-01



B196 (BLACK)



F7 (GRAY)

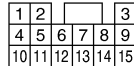
F23 (GRAY)



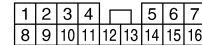
F44



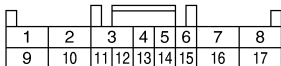
B228



B: i11 (GREEN)



B71 : WF



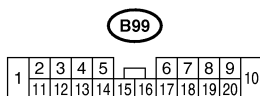
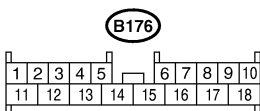
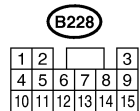
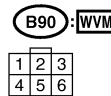
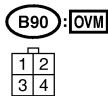
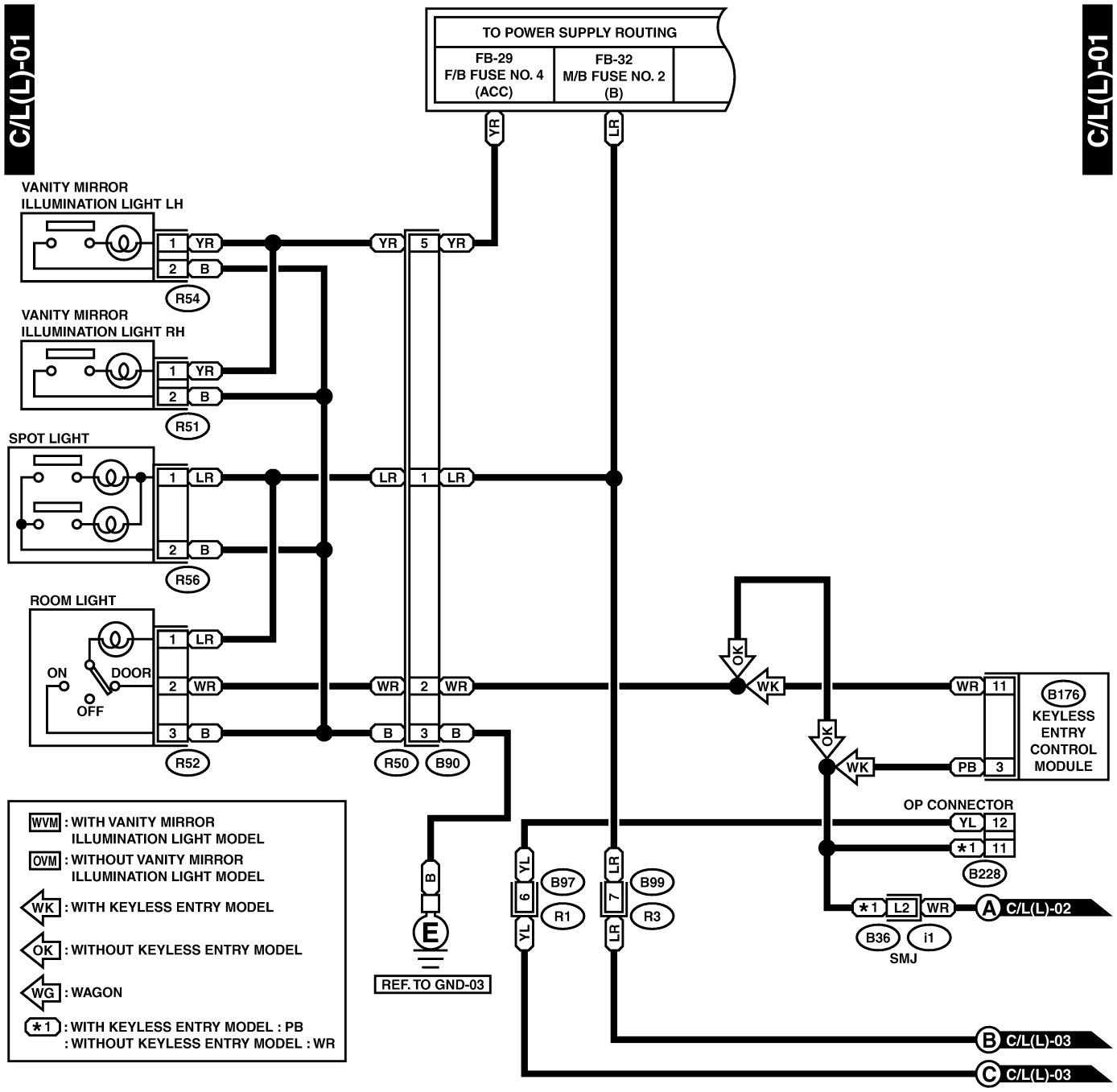
B71 : OF



28. In Compartment Light System S903665

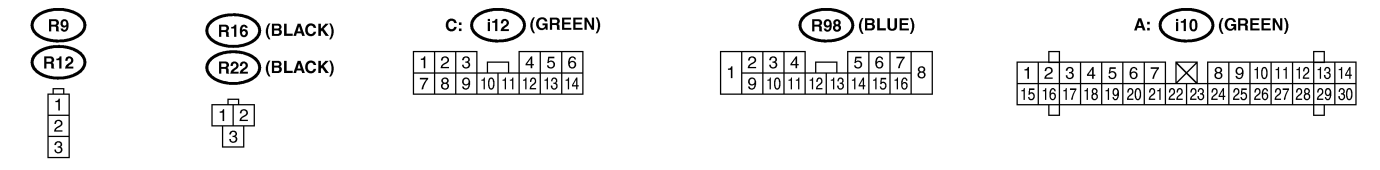
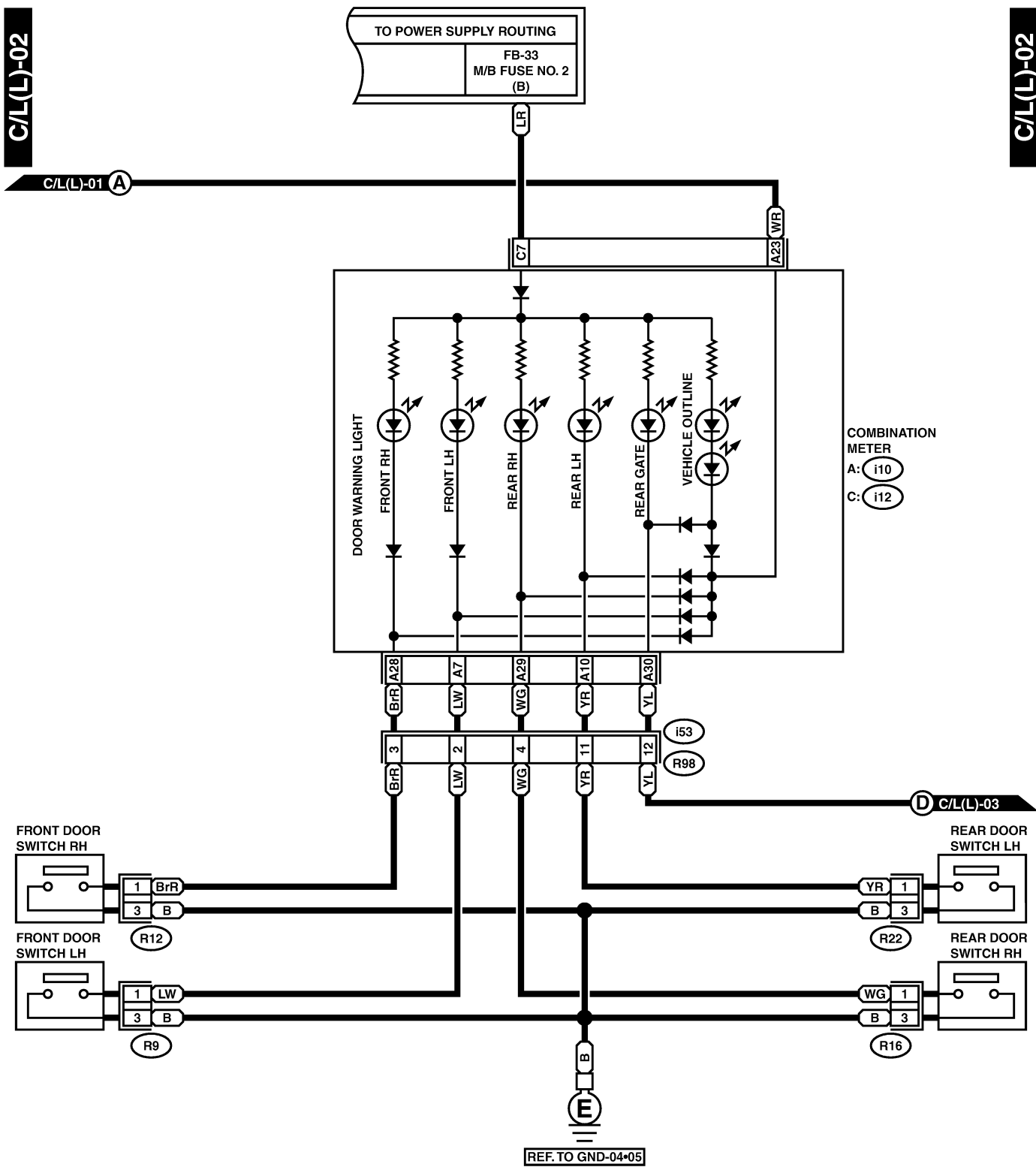
A: SCHEMATIC S903665A21

1. LHD MODEL S903665A2101



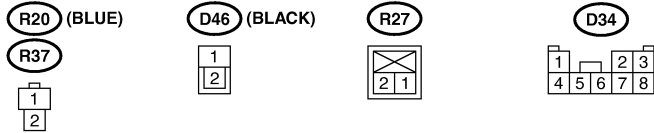
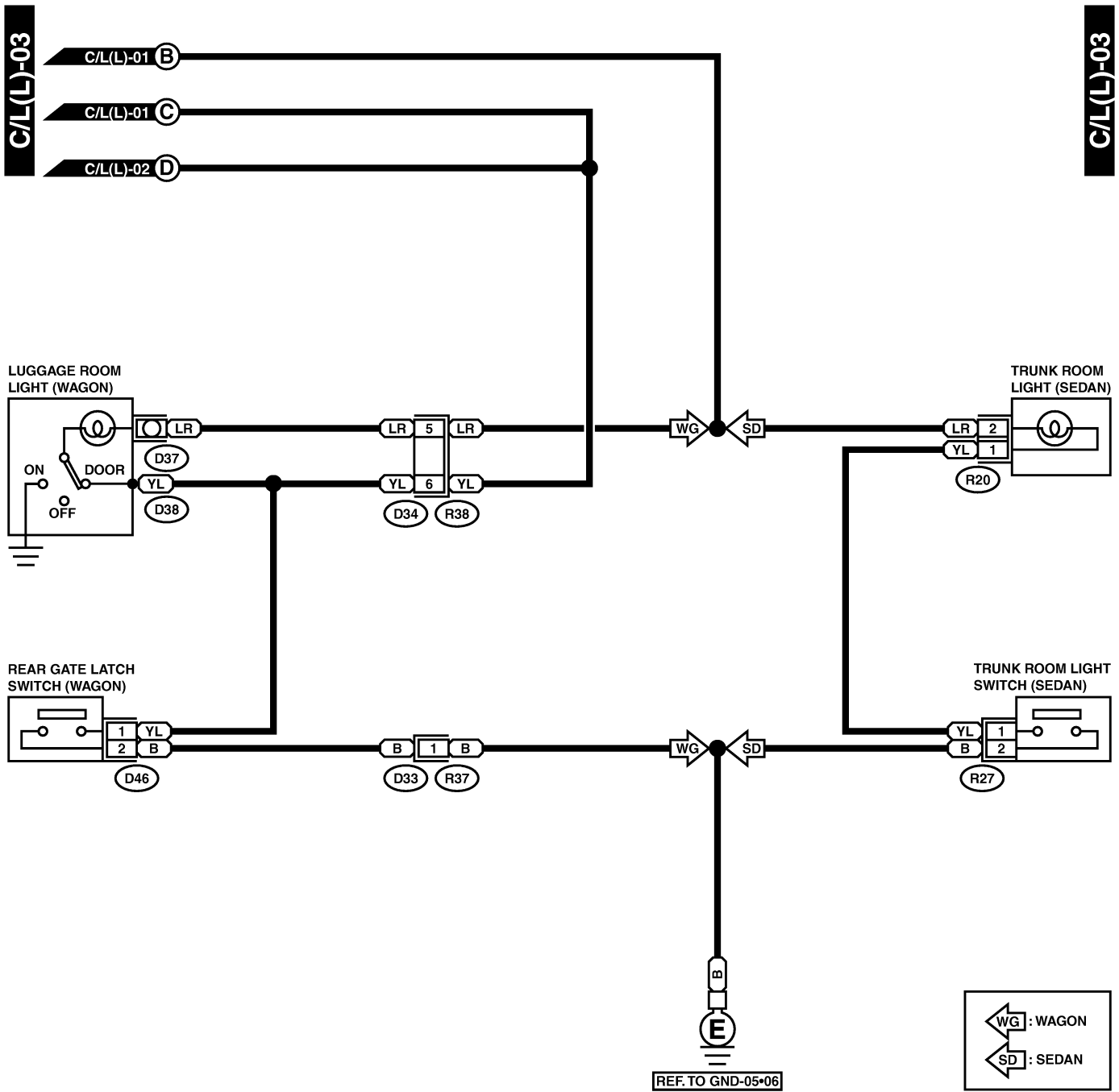
IN COMPARTMENT LIGHT SYSTEM

Wiring System



IN COMPARTMENT LIGHT SYSTEM

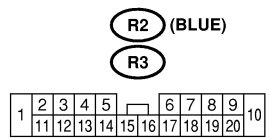
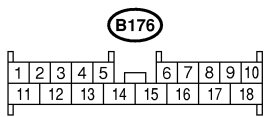
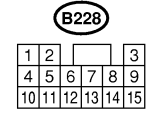
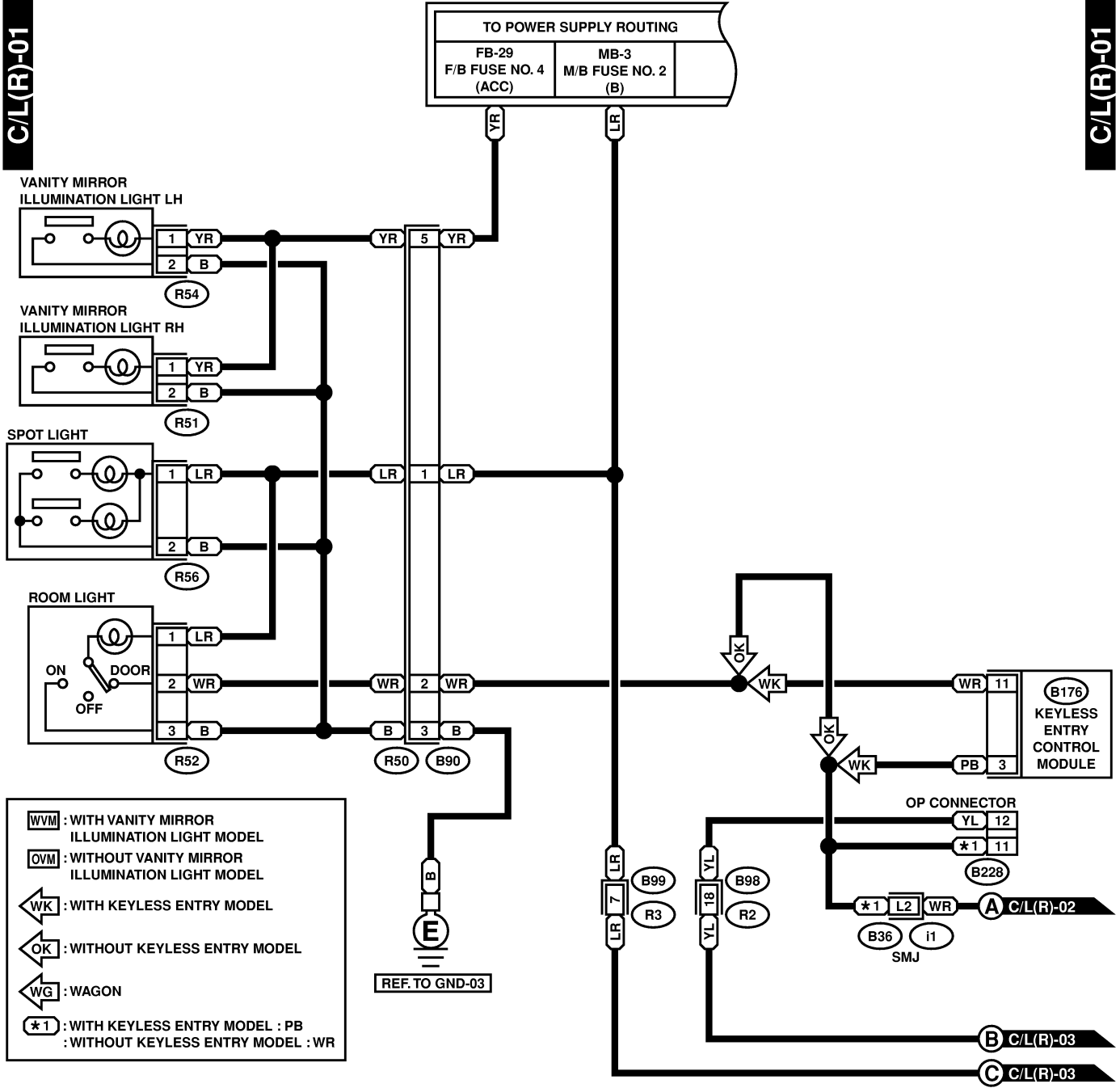
Wiring System



IN COMPARTMENT LIGHT SYSTEM

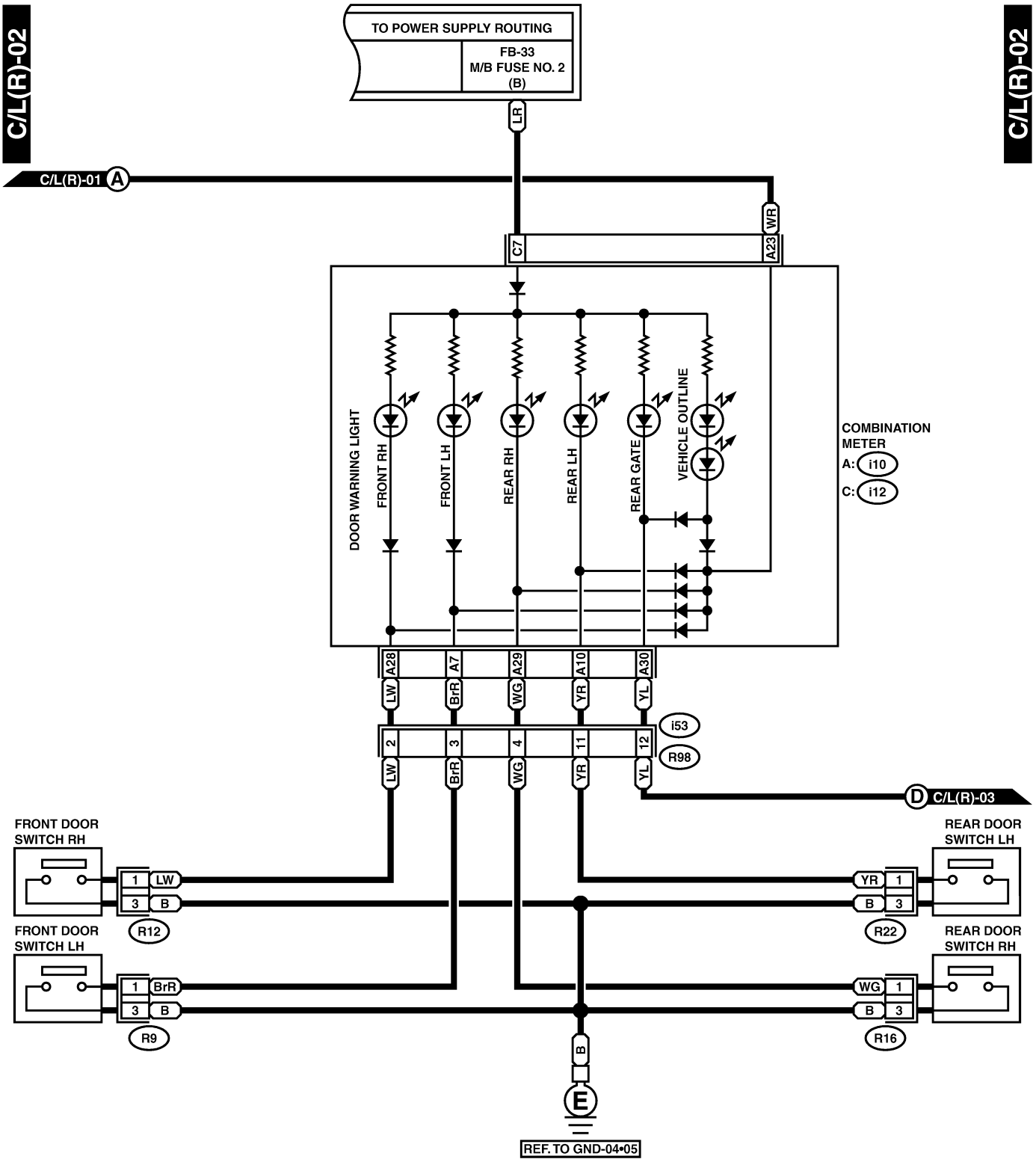
Wiring System

2. RHD MODEL S903665A2102

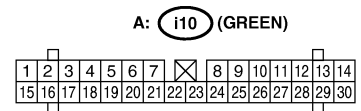
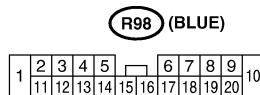
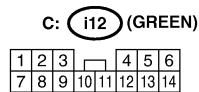
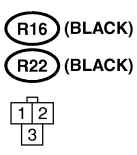


IN COMPARTMENT LIGHT SYSTEM

Wiring System

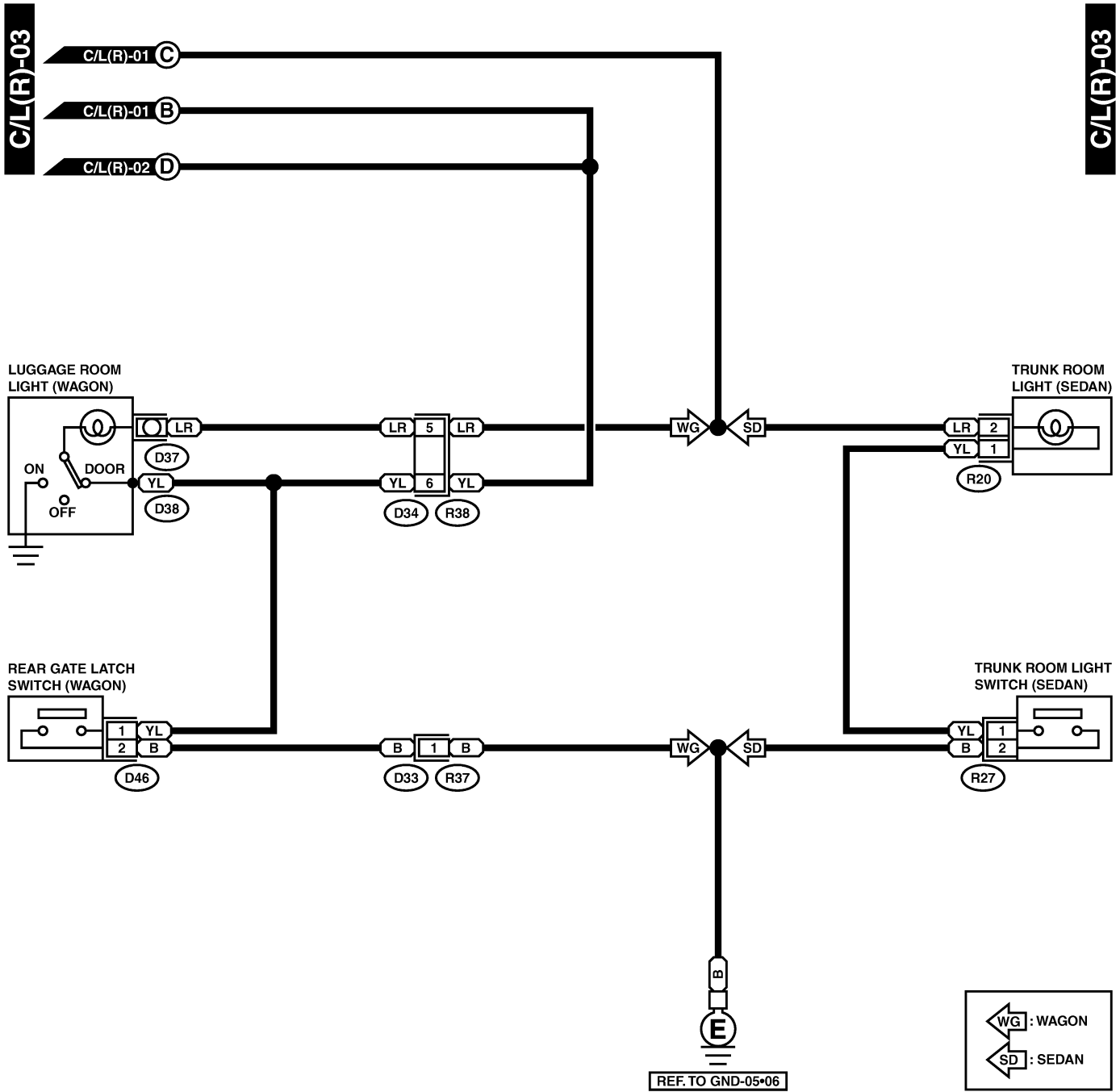


REF. TO GND-04*05

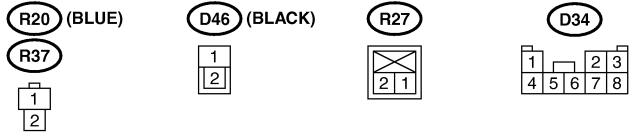


IN COMPARTMENT LIGHT SYSTEM

Wiring System



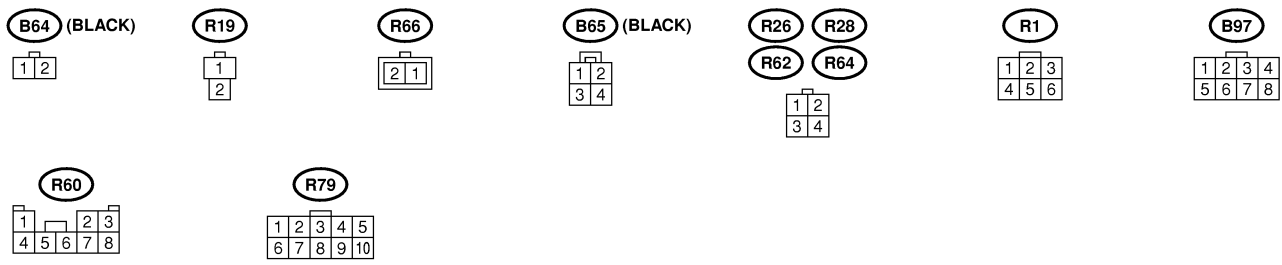
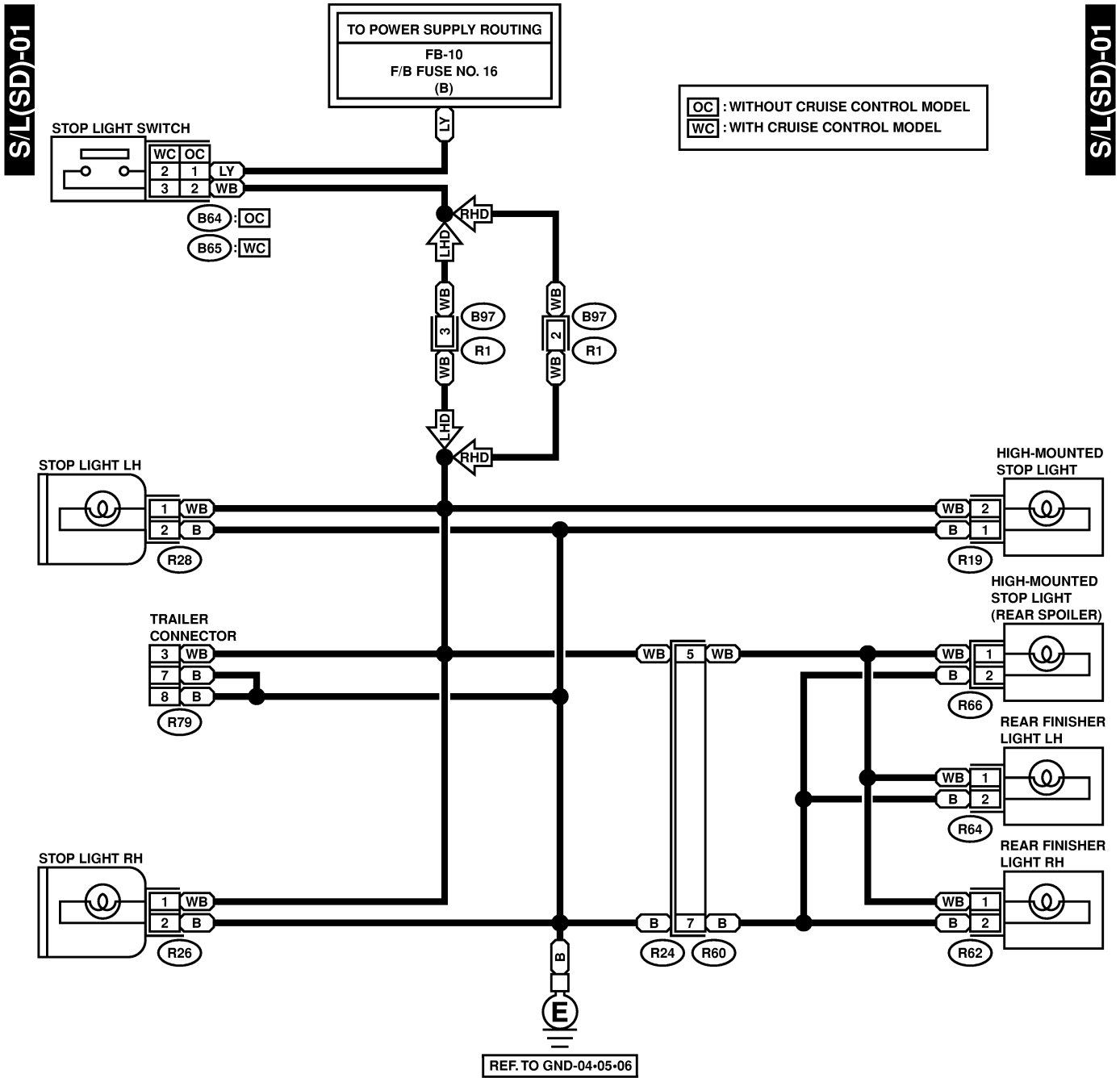
REF. TO GND-05-06



29. Stop Light System S903417

A: SCHEMATIC S903417A21

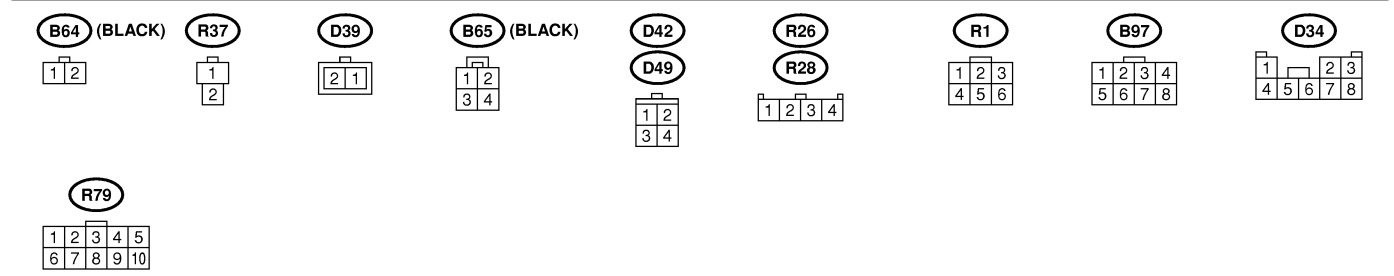
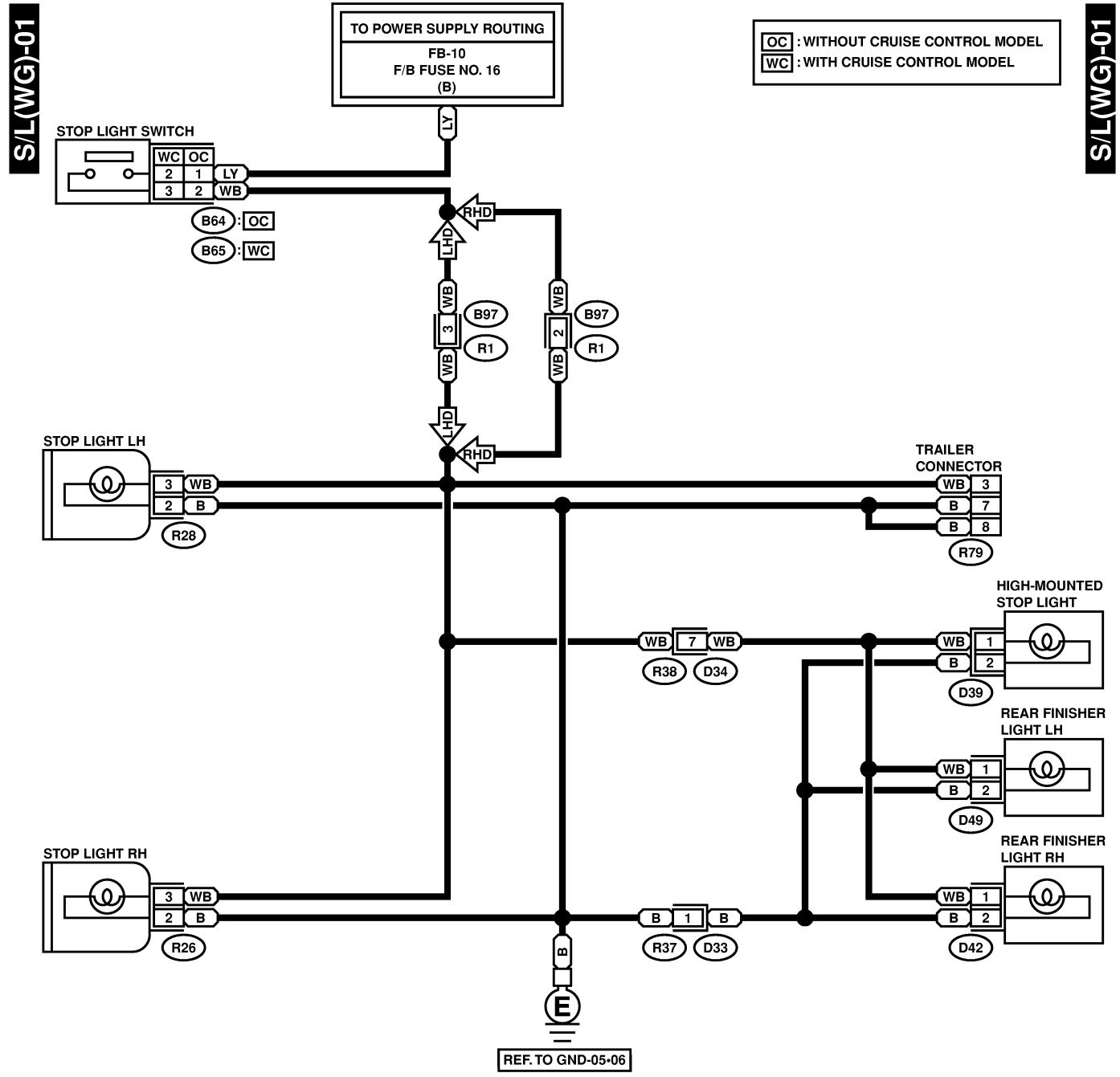
1. SEDAN MODEL S903417A2101



STOP LIGHT SYSTEM

Wiring System

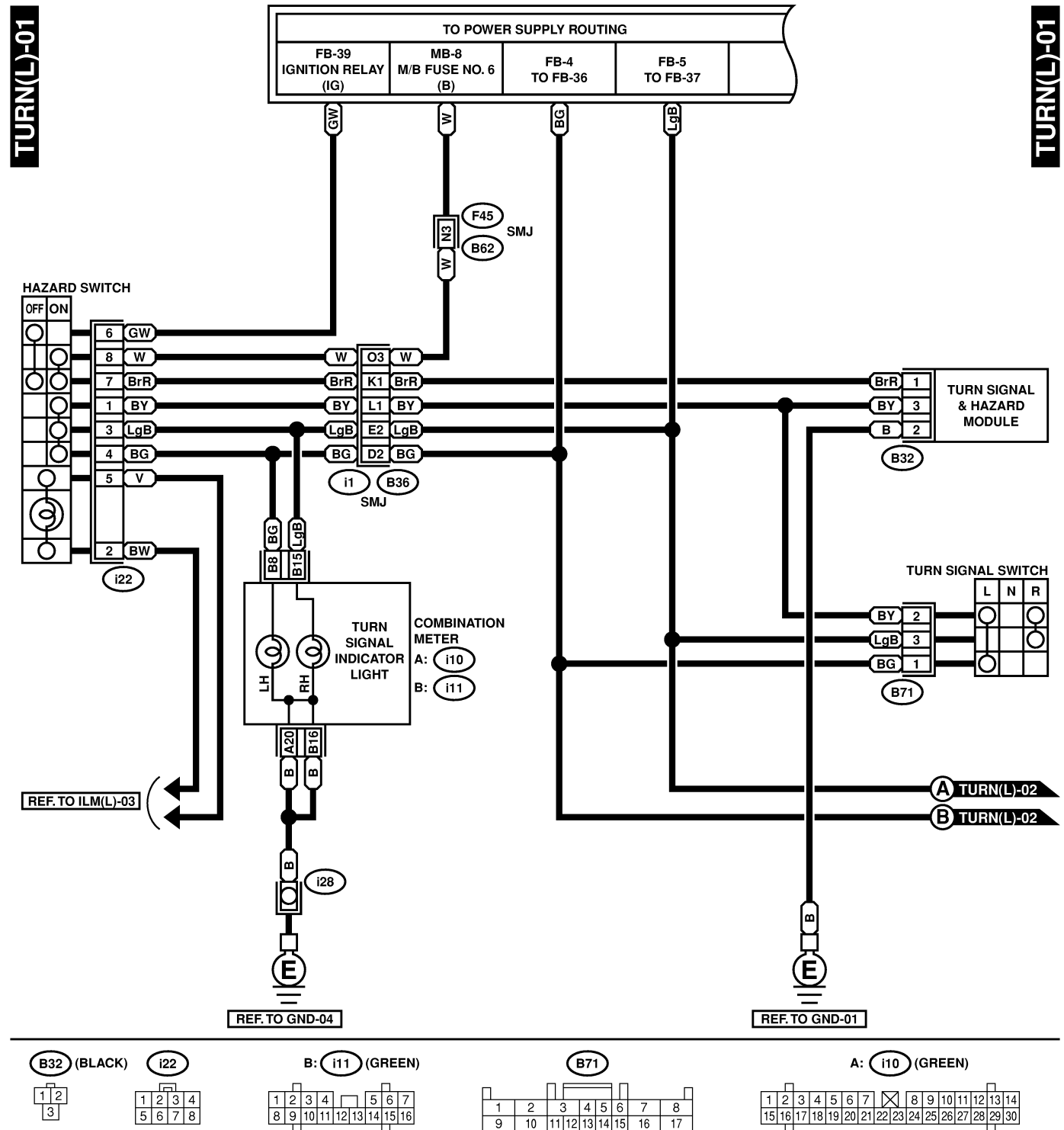
2. WAGON MODEL S903417A2102



30. Turn Signal Light and Hazard Light System S903481

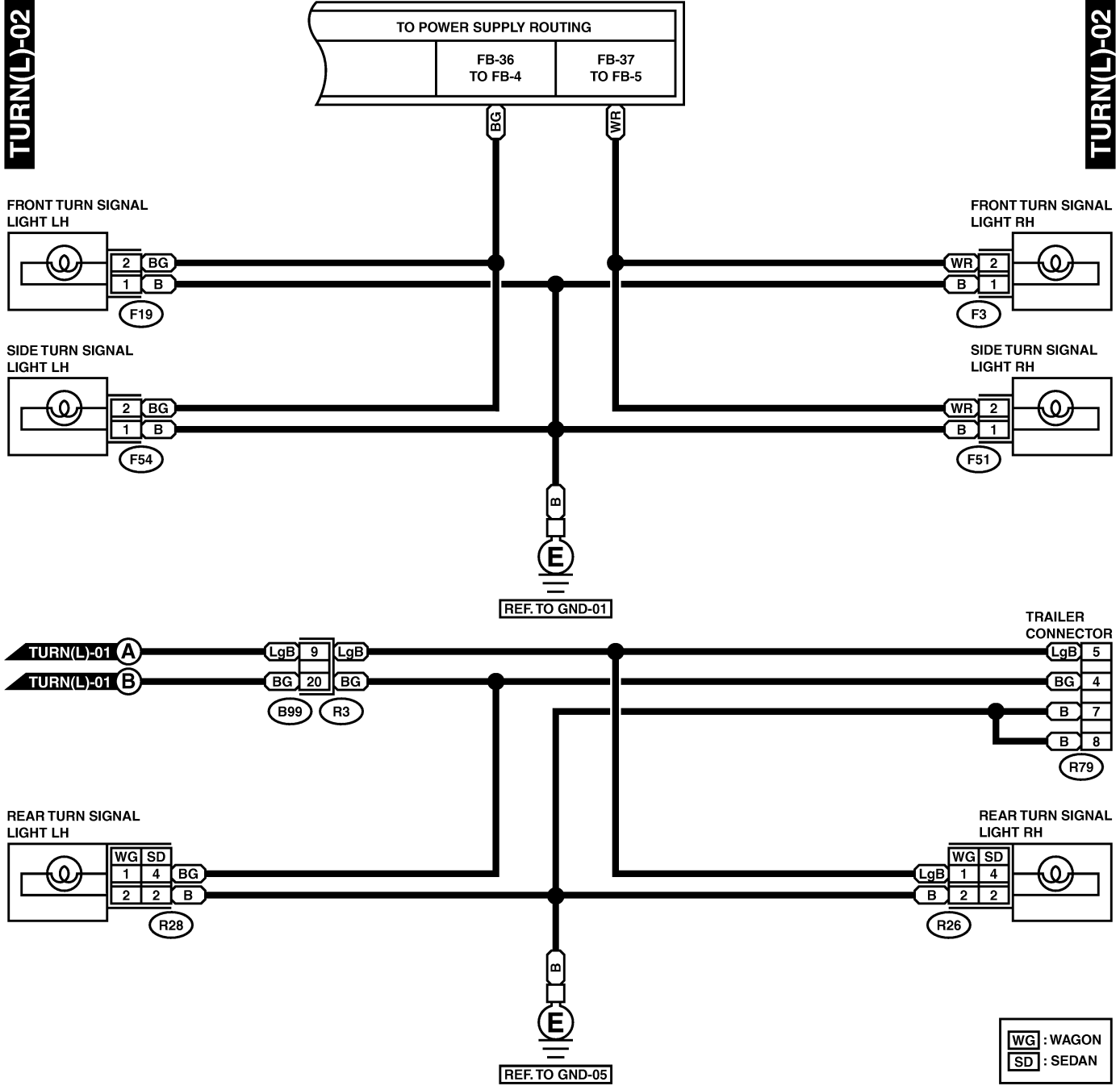
A: SCHEMATIC S903481A21

1. LHD MODEL S903481A2101



TURN SIGNAL LIGHT AND HAZARD LIGHT SYSTEM

Wiring System



- F3 (GRAY)
- F19 (GRAY)
- F51 (BLACK)
- F54 (BLACK)
- 1 2

- R26 : WG
- R28 : WG
- 1 2 3 4

- R26 : SD
- R28 : SD
- 1 2
- 3 4

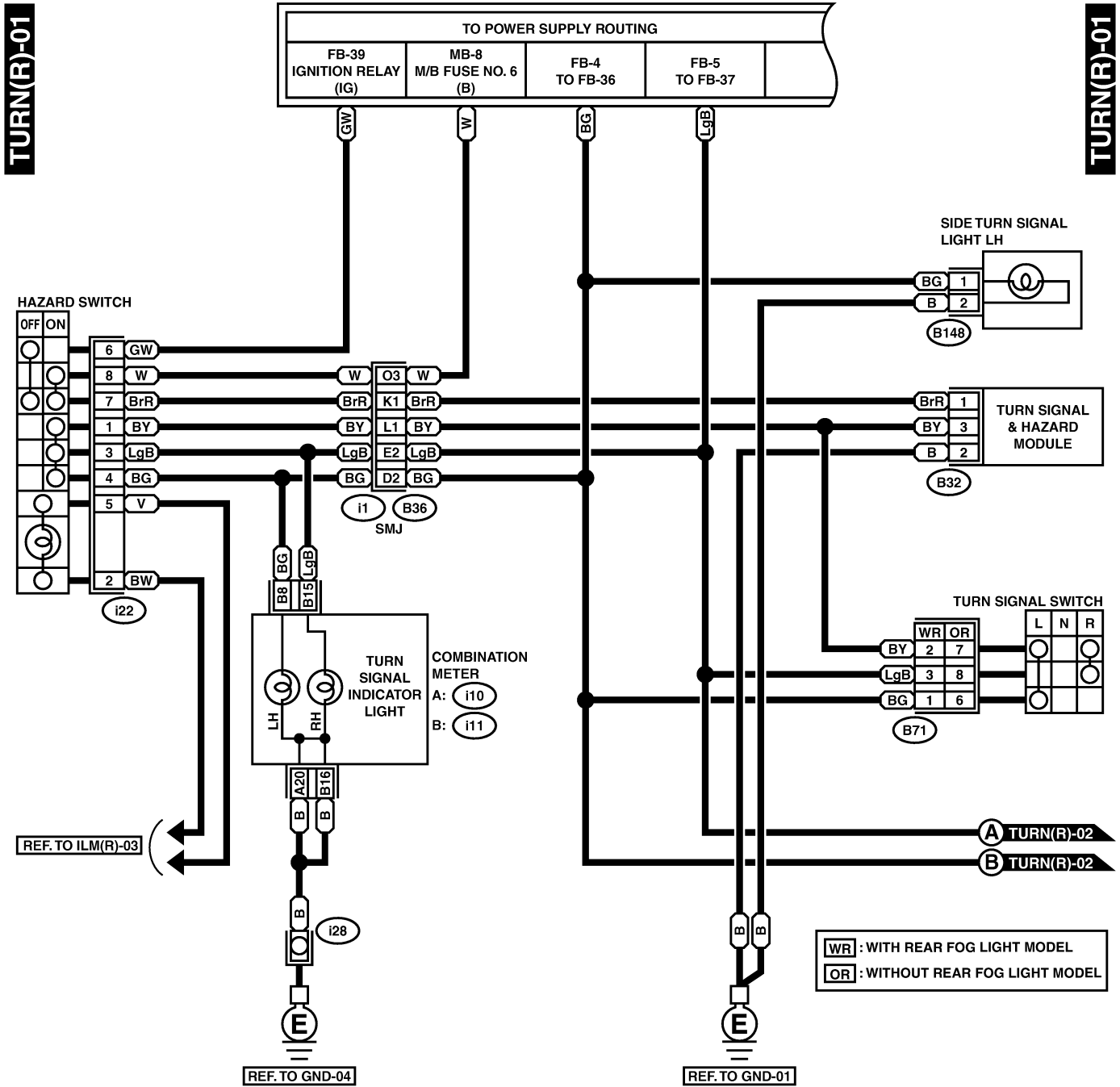
- R79
- 1 2 3 4 5
- 6 7 8 9 10

- B99
- 1 2 3 4 5 6 7 8 9 10
- 11 12 13 14 15 16 17 18 19 20

TURN SIGNAL LIGHT AND HAZARD LIGHT SYSTEM

Wiring System

2. RHD MODEL S903481A2102



B148 (BLACK)



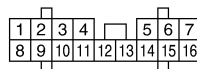
B32 (BLACK)



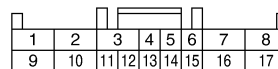
i22



B: i11 (GREEN)



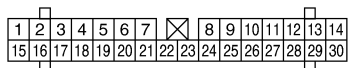
B71: WR



B71: OR

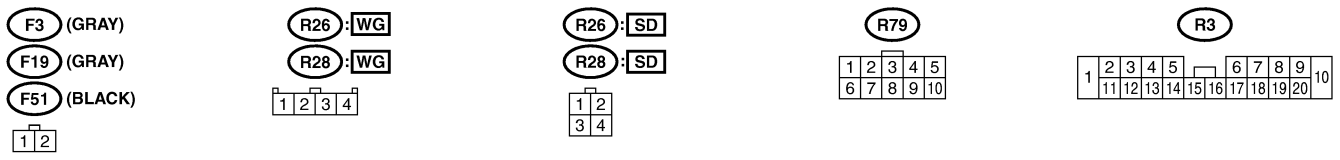
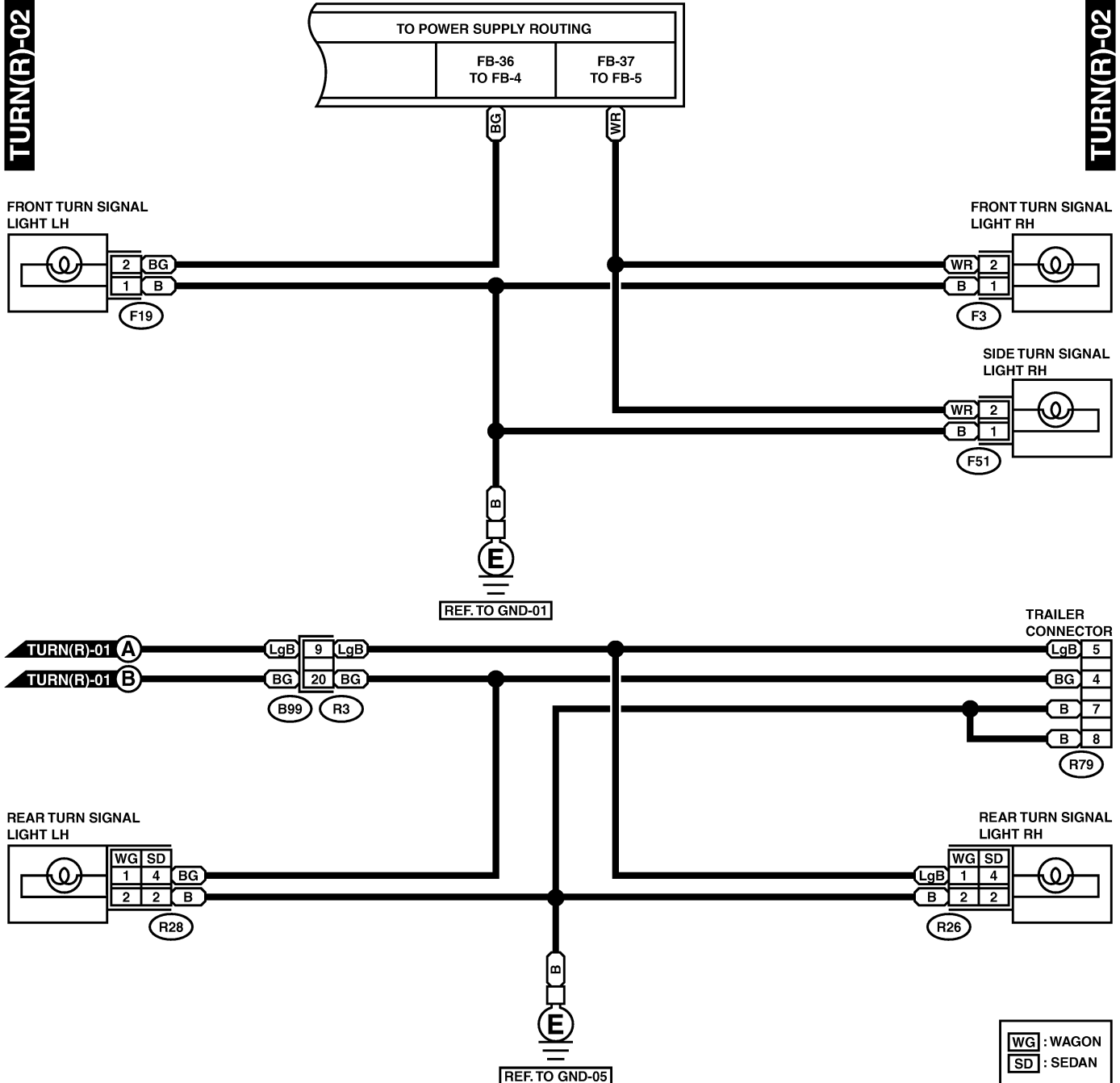


A: i10 (GREEN)



TURN SIGNAL LIGHT AND HAZARD LIGHT SYSTEM

Wiring System



31. Oil Pressure Warning Light System

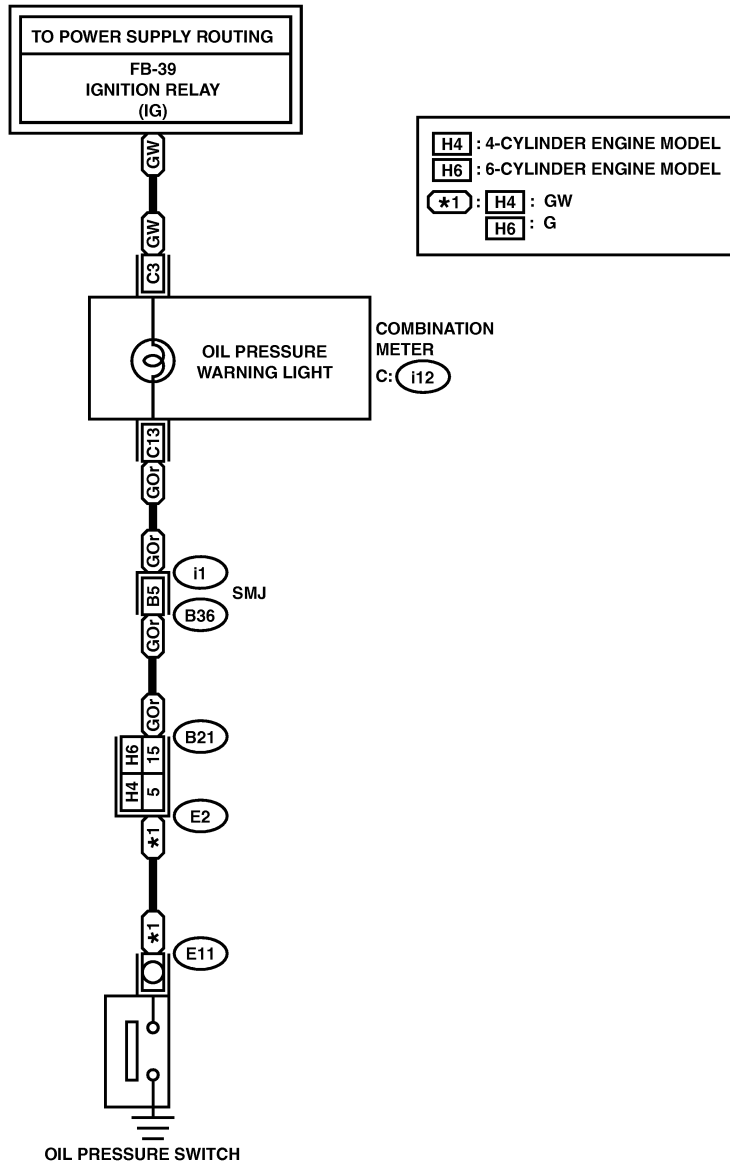
S903667

A: SCHEMATIC

S903667A21

OIL/P-01

OIL/P-01



C: i12 (GREEN)

B21 (LIGHT GRAY)

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

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

OUTSIDE TEMPERATURE DISPLAY SYSTEM

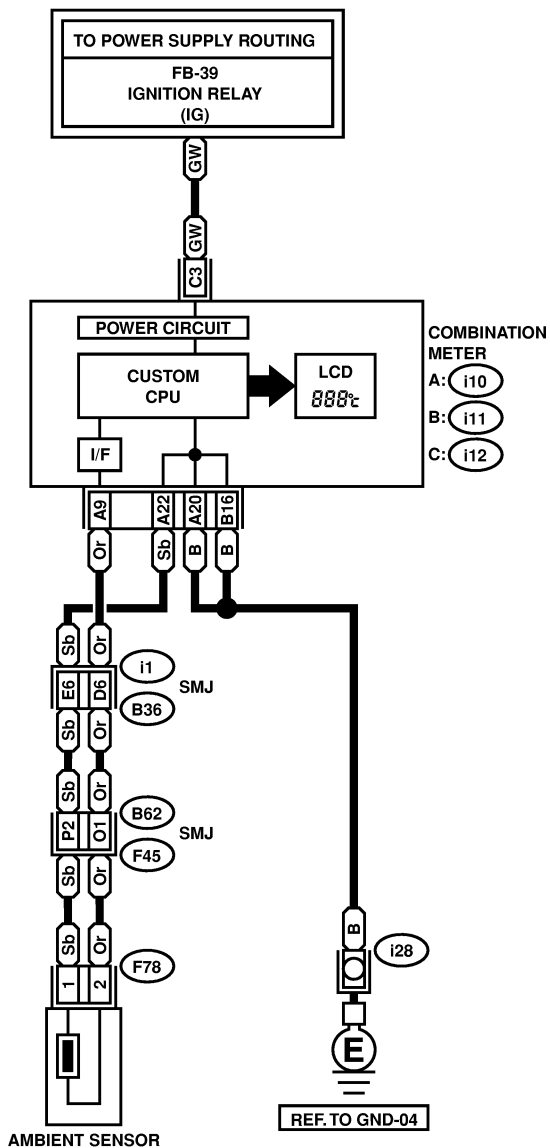
Wiring System

32. Outside Temperature Display System S903668

A: SCHEMATIC S903668A21

O/TEMP-01

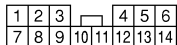
O/TEMP-01



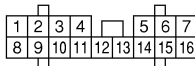
F78 (BLACK)



C: i12 (GREEN)



B: i11 (GREEN)



A: i10 (GREEN)

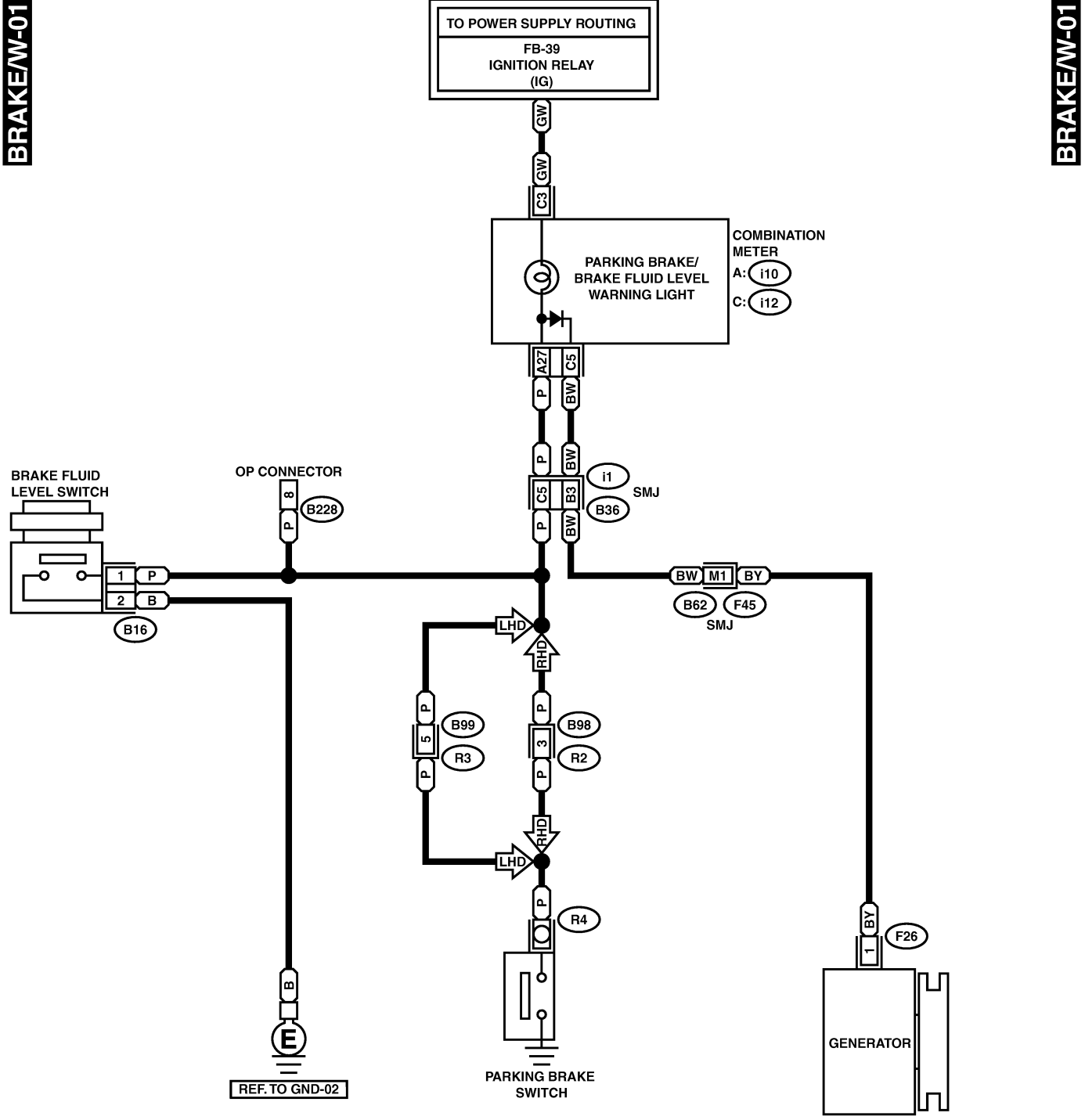


33. Parking Brake and Brake Fluid Level Warning System

S903478

A: SCHEMATIC

S903478A21



B16 (GRAY)

1
2

F26 (GREEN)

1	2	3
---	---	---

C: i12 (GREEN)

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

B228

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

B99

R2 (BLUE)

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

A: i10 (GREEN)

1	2	3	4	5	6	7	8	9	10	11	12	13	14		
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30