

1. Basic Diagnostic Procedure

A: BASIC PROCEDURES

1. GENERAL DESCRIPTION

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

2. IDENTIFICATION OF TROUBLE SYMPTOM

Determine what the problem is based on the symptom.

3. PROBABLE CAUSE OF TROUBLE

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

4. LOCATION AND REPAIR OF TROUBLE

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

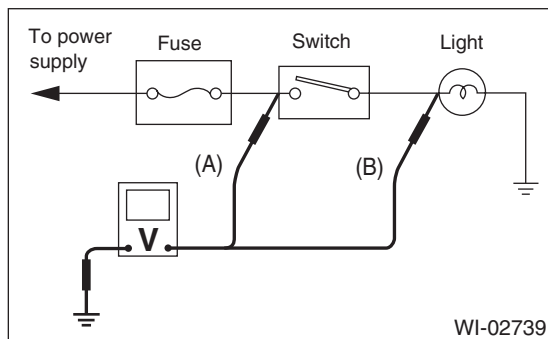
5. SYSTEM OPERATION CHECK

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

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



- 4) With the test set-up held as it is, turn the switch to ON. The voltmeter will indicate a voltage and, at the same time, the light will illuminate.

- 5) The circuit is in good order. If a problem such as a light failing to illuminate occurs, use the procedures outlined above to track down the malfunction.

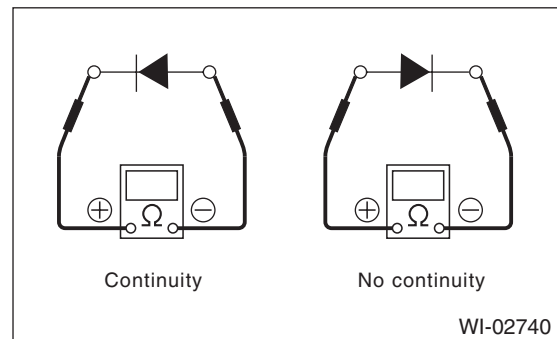
2. CIRCUIT CONTINUITY CHECKS

- 1) Disconnect the battery terminal or connector so there is no voltage between the check points. Contact the two leads of an ohmmeter to each of the check points.

If the circuit has diodes, reverse the two leads and check again.

- 2) Use an ohmmeter to check for diode continuity. When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



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

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

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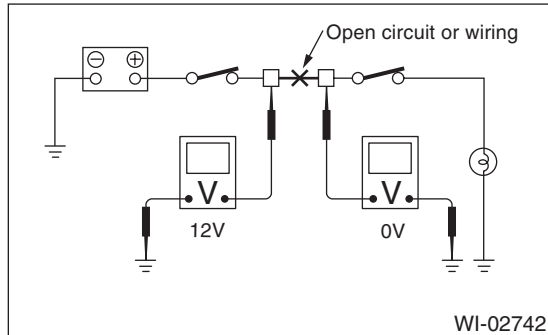
Basic Diagnostic Procedure

WIRING SYSTEM

3. HOW TO DETERMINE AN OPEN CIRCUIT

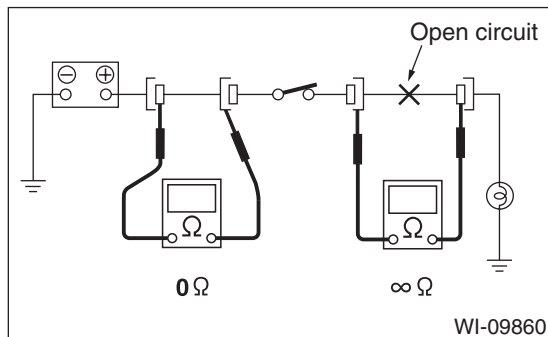
1) WITH VOLTMETER:

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



2) WITH OHMMETER:

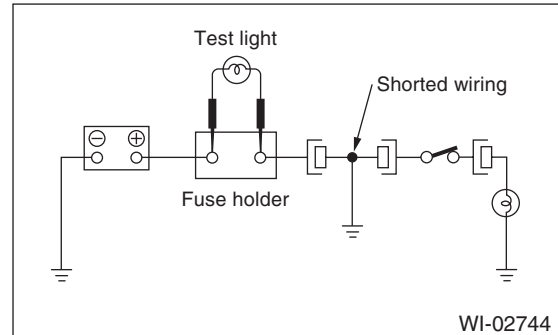
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



4. HOW TO DETERMINE A SHORT CIRCUIT

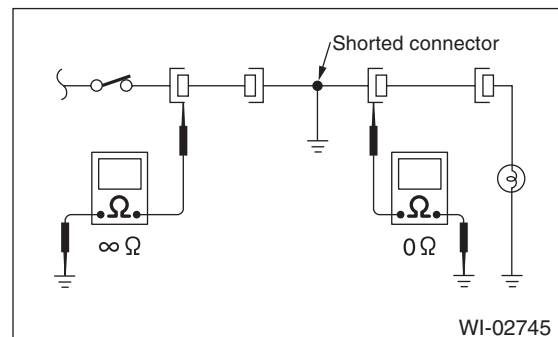
1) WITH TEST LIGHT:

Connect a test light (rated at approx. 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 light goes out when a connector is disconnected, the wiring between that connector and the next connector (farther from the power supply) is shorted.



2) WITH OHMMETER:

Disconnect all affected connectors, and check continuity between each connector and ground. When the ohmmeter indicates continuity between a particular connector and a ground, that connector is shorted.



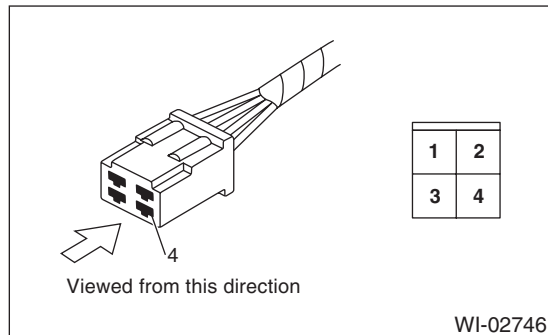
C: HOW TO READ WIRING DIAGRAMS

1. WIRING DIAGRAM:

The wiring diagram of each system is illustrated so that you can understand the path through which the electric current flows from the battery.

Sketches and codes are used in the diagrams. They should read as follows:

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



- The number of poles or pins, presence of a lock 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.

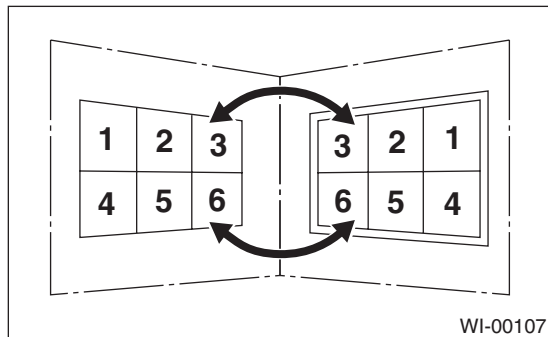
Connector used in vehicle	Connector shown in wiring diagram		
	Sketch	Symbol	Number of poles
	Double frames Indicates a lock is included. Indicates the number of poles.		Numbered in order from upper right to lower left.
	Indicates a lock is included. Single frame		Numbered in order from upper left to lower right.

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WIRING SYSTEM

- 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.



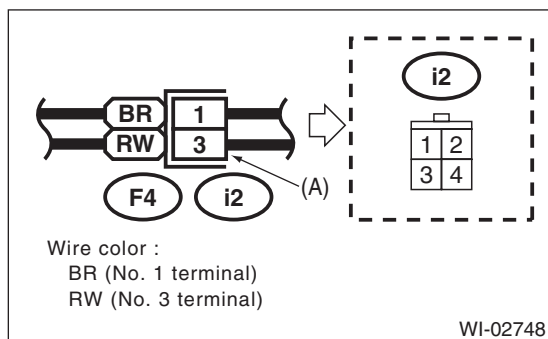
• WIRING DIAGRAM:

The connectors are numbered along with the number of poles, external colors, and mating connections in the accompanying list.

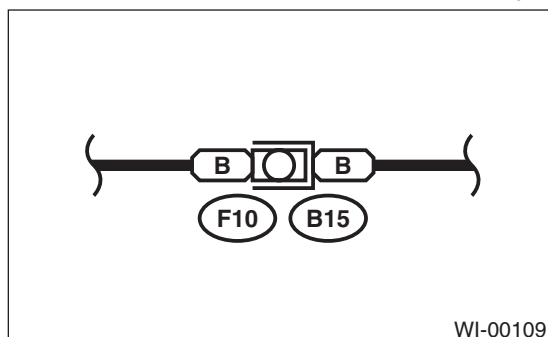
- The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal number and connector is described in the figure.

NOTE:

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

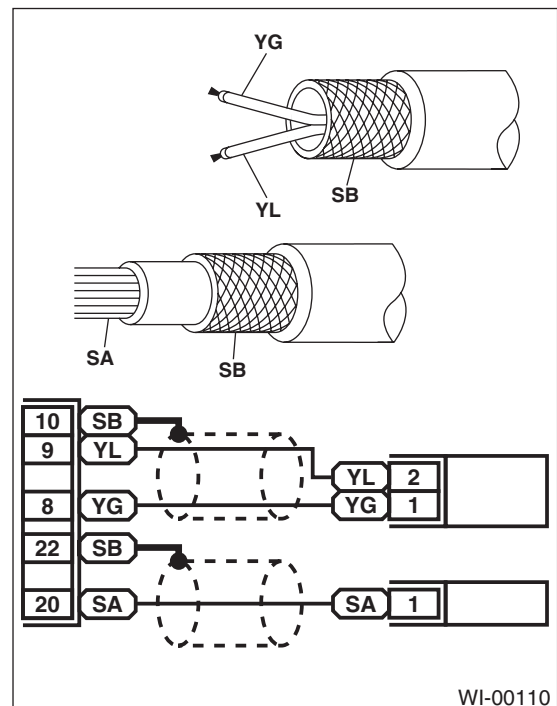


- In the wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

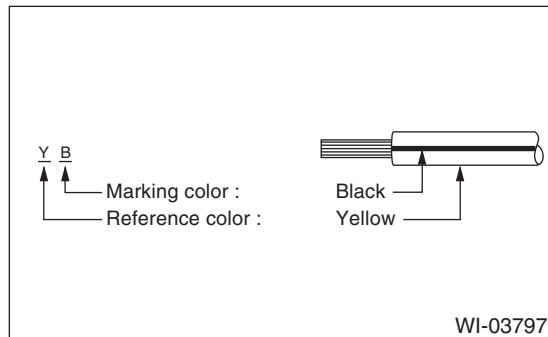


- The following color codes are used to indicate the colors of the wires.

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
Sb	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:

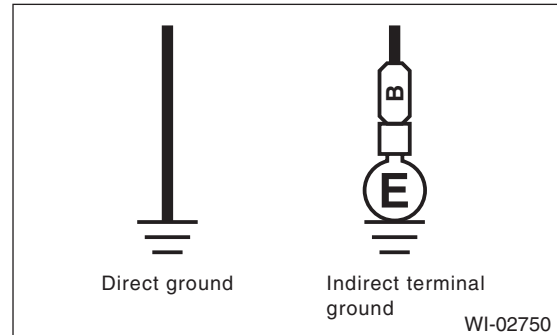
When replacing or repairing a wire, be sure to use the same size and type of the wire which was originally used.

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 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

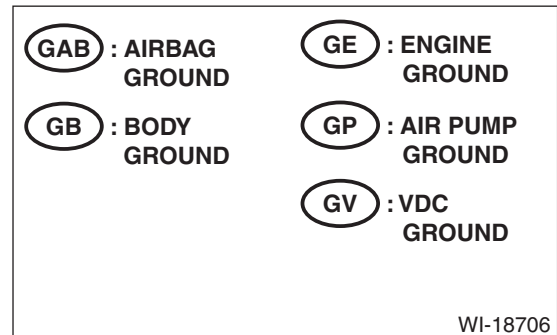
- Each unit is either directly grounded to the body or indirectly grounds through a harness ground terminal. Different symbols are used in the wiring diagram to identify the two grounding systems.



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

NOTE:

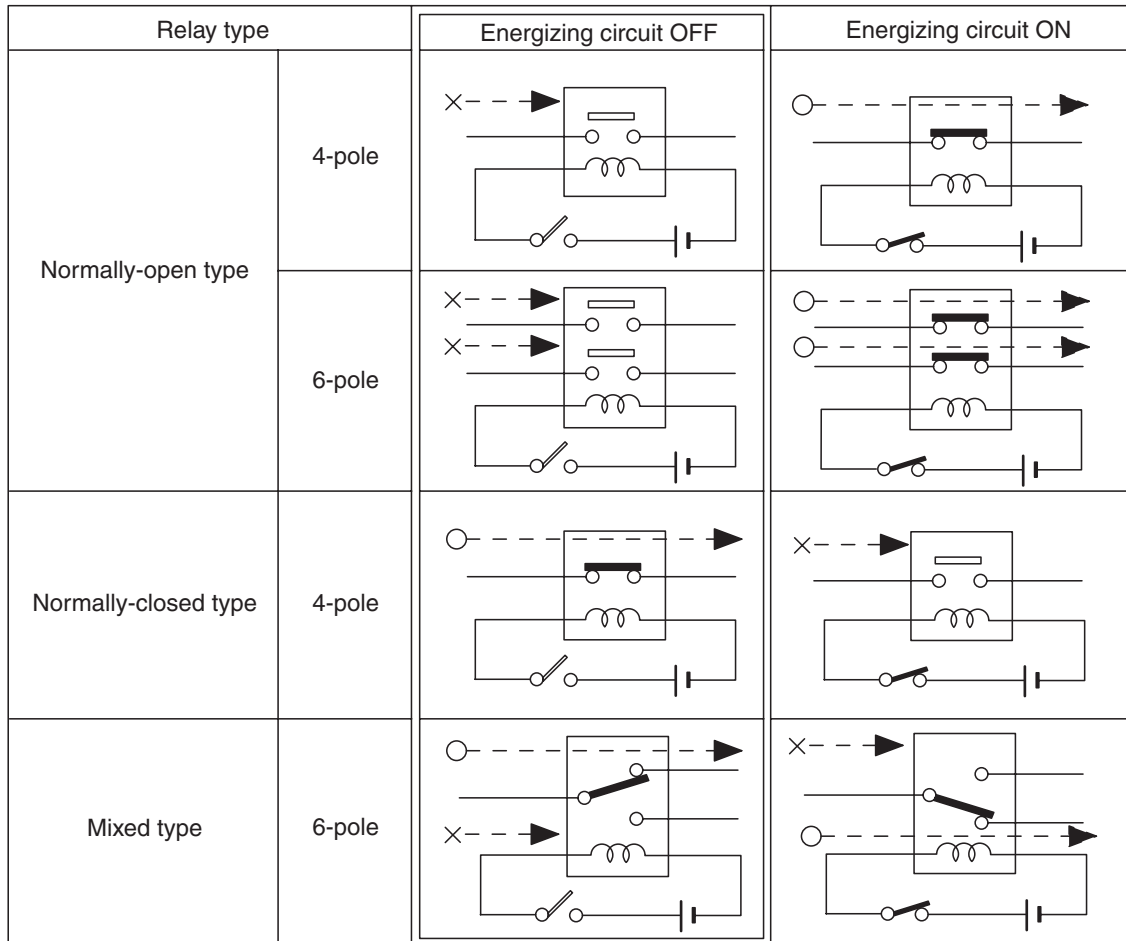
All wiring harnesses are provided with a ground point which must be securely connected.



Basic Diagnostic Procedure

WIRING SYSTEM

- 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.



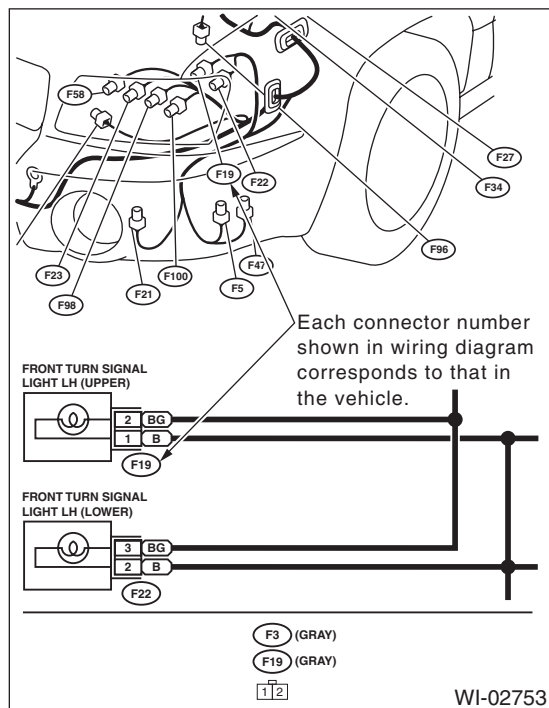
Key to symbols:

- —▶ : Current flows.
 × —▶ : Current does not flow.

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

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

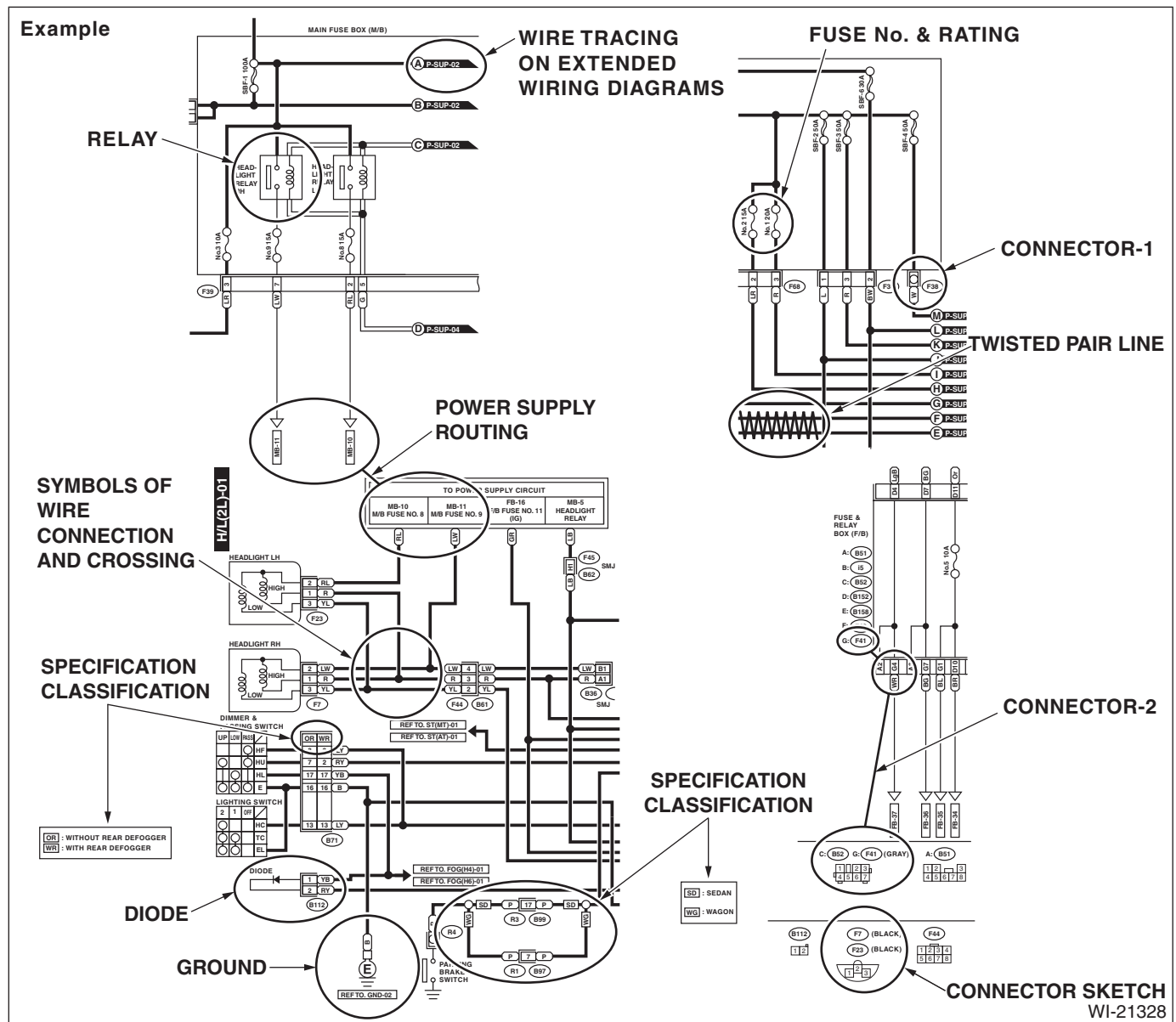


Basic Diagnostic Procedure

WIRING SYSTEM

D: SYMBOLS IN WIRING DIAGRAMS

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



1. RELAY

A symbol used to indicate a relay.

2. CONNECTOR 1

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

3. WIRING CONNECTION

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

4. FUSE NO. & RATING

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

5. CONNECTOR 2

- Each connector is indicated by a symbol.
- Each terminal number is indicated in the corresponding wiring diagram in an abbreviated form.
- For example, terminal number "G4" refers to No. 4 terminal of connector (G: F41) shown in the connector sketch.

6. CONNECTOR SKETCH

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

7. GROUND

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

8. DIODE

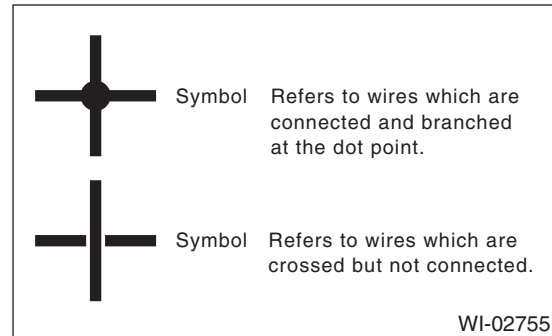
A symbol is used to indicate a diode.

9. WIRE TRACING ON EXTENDED WIRING DIAGRAMS

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

A $\longleftrightarrow$ A, B $\longleftrightarrow$ B

10. SYMBOLS OF WIRE CONNECTION AND CROSSING



11. POWER SUPPLY CIRCUIT

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 "DC POWER SUPPLY CIRCUIT" in the wiring diagram.

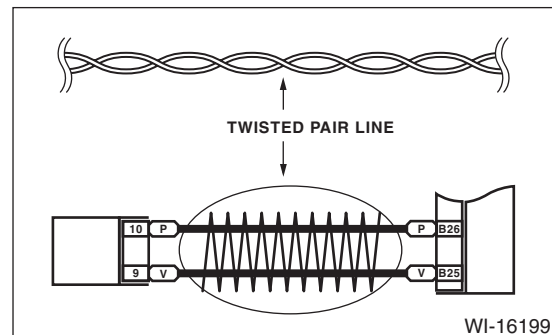
Accordingly, using the "DC POWER SUPPLY CIRCUIT" and wiring diagrams permits service personnel to understand the entire electrical arrangement of a system.

12. CLASSIFICATION BY SPECIFICATION

When the wiring diagram differ according to vehicle specifications, the specification difference is described by using abbreviations.

13. TWISTED PAIR LINE

The twisted pair line is indicated by a symbol in the wiring diagrams.

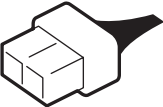
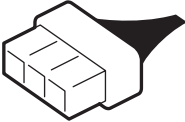
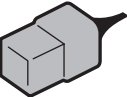
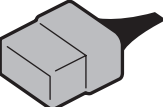
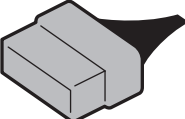
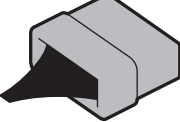


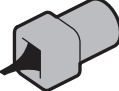
Basic Diagnostic Procedure

WIRING SYSTEM

E: CONNECTOR SYMBOL IN WIRING HARNESS

A number of connector symbols are used in each wiring diagram to easily identify the wiring harness connectors.

Standard type: Female		
Pole: From 1 to 8	Pole: From 9 to 20	Pole: More than 21
		
		
Standard type: Male		
		
		

Water proof type: Female		
Pole: From 1 to 8	Pole: From 9 to 20	Pole: More than 21
		
		
Water proof type: Male		
		
		

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F: ABBREVIATION IN WIRING DIAGRAMS

Abbr.	Full name
ABS	Anti-lock Brake System
ACC	Accessory
A/C	Air Conditioner
ASSY	Assembly
A/F	Air/Fuel (Air fuel ratio sensor)
AUX	Auxiliary Audio Input Terminal
B	Battery
CAN	Controller Area Network
CM	Control Module
DN	Down
DCCD	Driver's Control Center Differential
E	Ground
ECM	Engine Control Module
EEPROM	Electrically Erasable Programmable Read-Only Memory
ELCM	Evaporative Leak Check Module
F/B	Fuse & Relay Box
FL	Front Left
FR	Front Right
G	Gravity (G sensor)
H/L	Headlight
HI	High
I/F	Interface
IG	Ignition
INT	Intermittent
LCD	Liquid Crystal Display
LH	Left Hand
LO	Low
M	Motor
M/B	Main Fuse Box
PASS	Passing
RH	Right Hand
RL	Rear Left
RR	Rear Right
SBF	Slow Blow Fuse
SI-DRIVE	SUBARU Intelligent Drive
ST	Starter
SW	Switch
TPMS	Tire Pressure Monitor System
VDC	Vehicle Dynamics Control
VFD	Vacuum Fluorescent Display
WASH	Washer

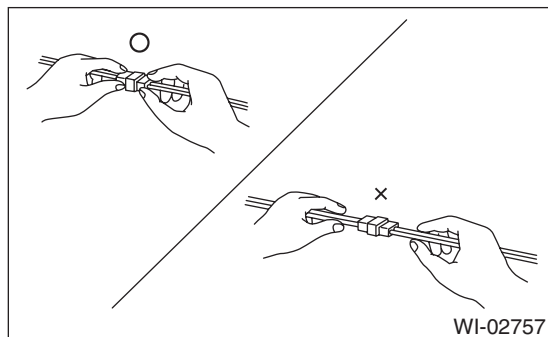
2. Working Precautions

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

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

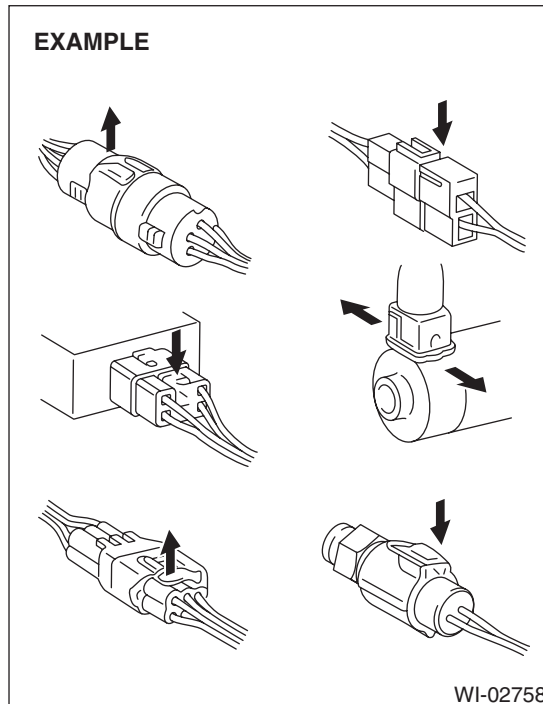
B: PRECAUTIONS IN TROUBLE DIAGNOSIS AND REPAIR OF ELECTRIC PARTS

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



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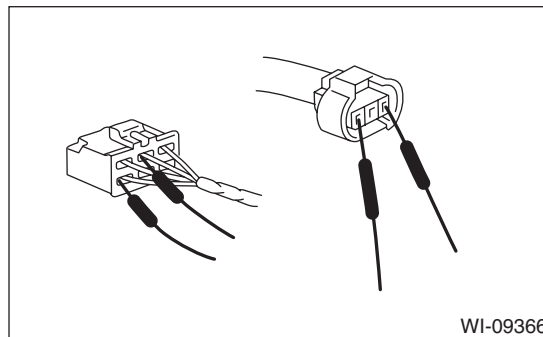
- 5) Some connectors are provided with a lock. One type of such a connector is disconnected by pushing the lock, and the other, by moving the lock up. In either type the lock shape must be identified before attempting to disconnect the connector. To connect, insert the connector until it snaps and confirm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



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- 6) When checking continuity between connector terminals, or measuring voltage across the terminal and ground, always touch tester probe(s) to 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 measurable from the wiring side), touch test probes on the terminal side and be careful not to bend or damage the terminals.



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

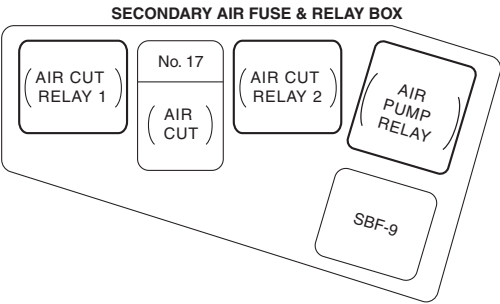
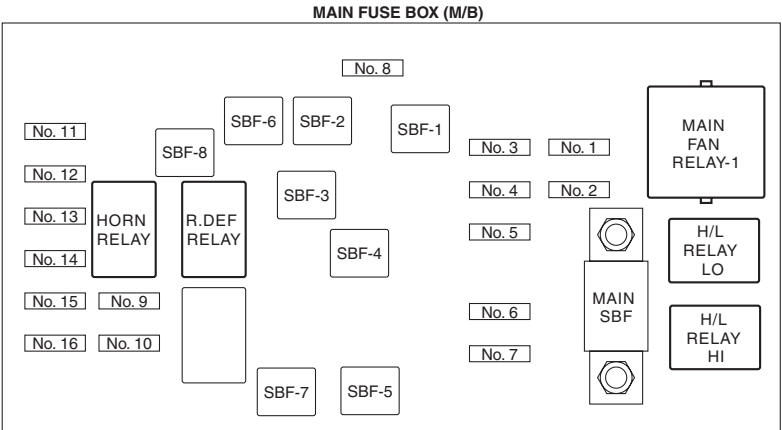
3. Power Supply Circuit

A: WIRING DIAGRAM

- Engine room side

P-SUP-01

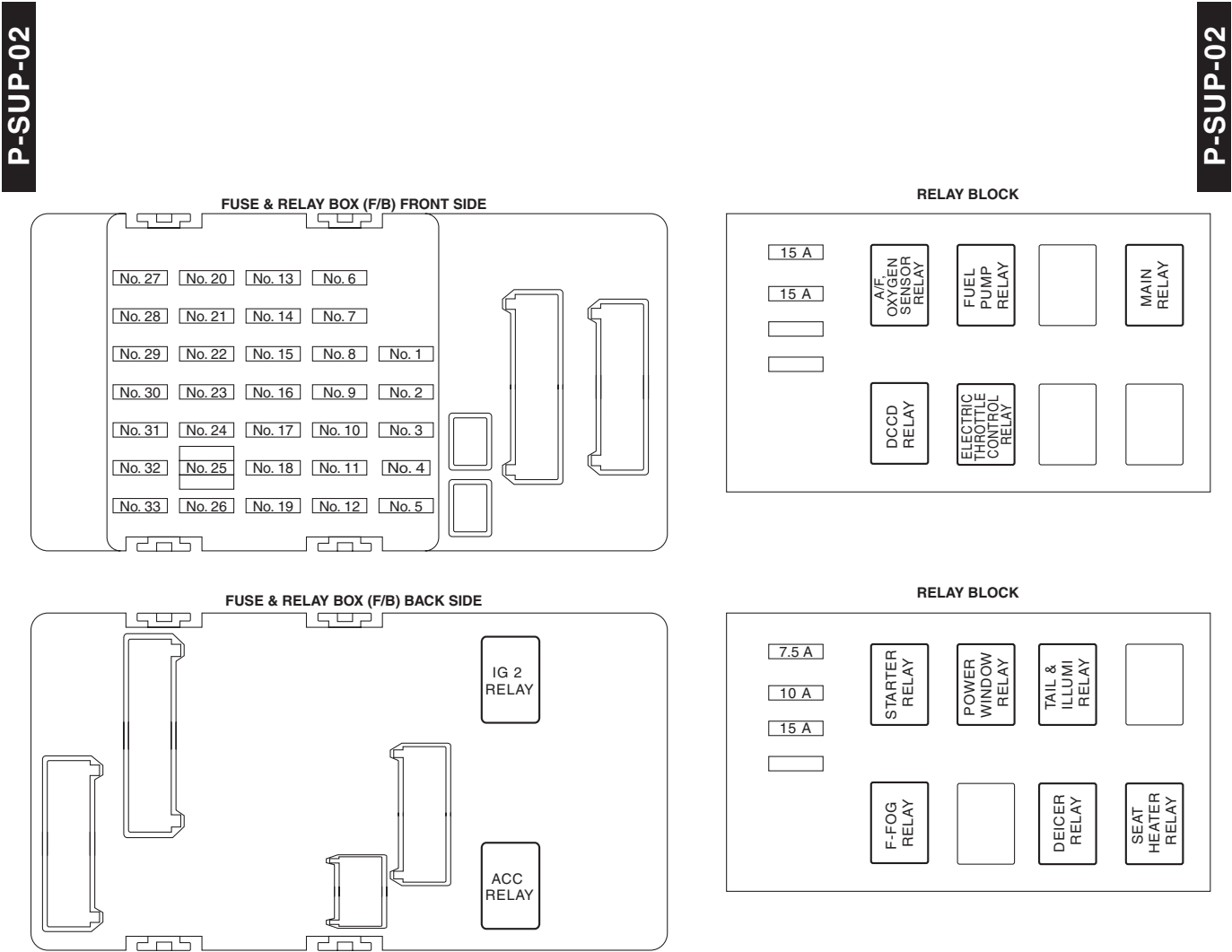
P-SUP-01



Power Supply Circuit

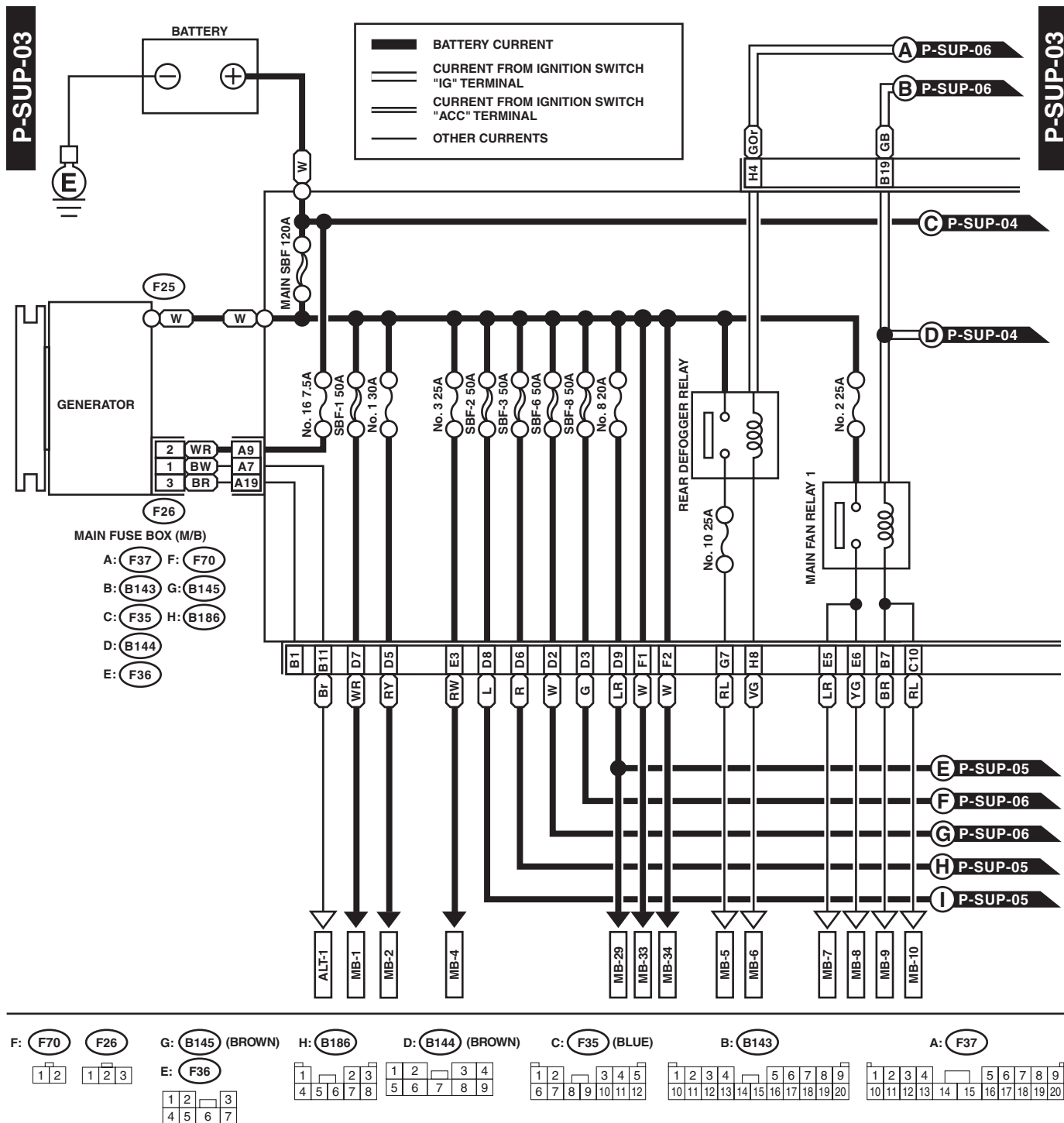
WIRING SYSTEM

- Passenger room side



Power Supply Circuit

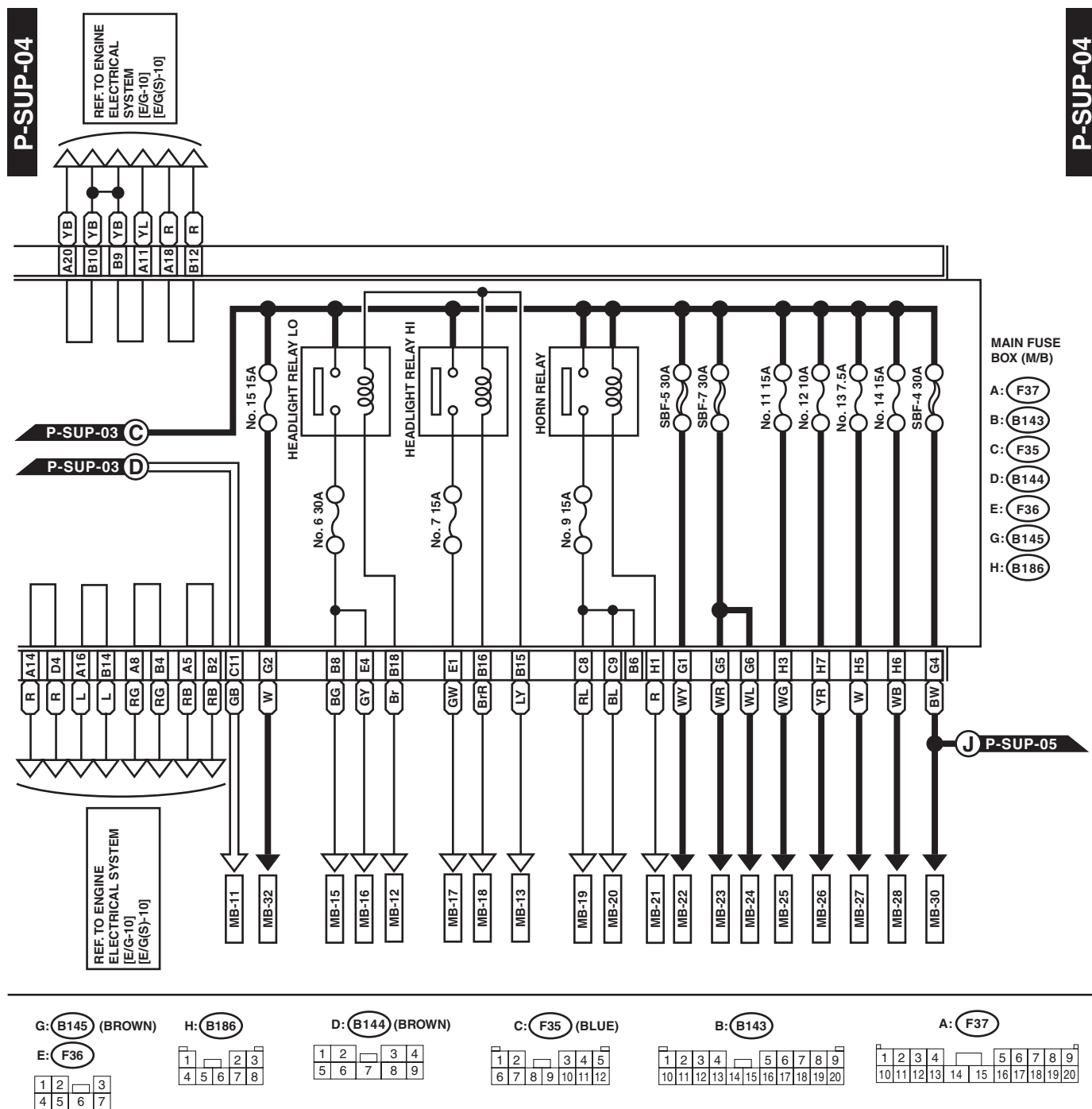
WIRING SYSTEM



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Power Supply Circuit

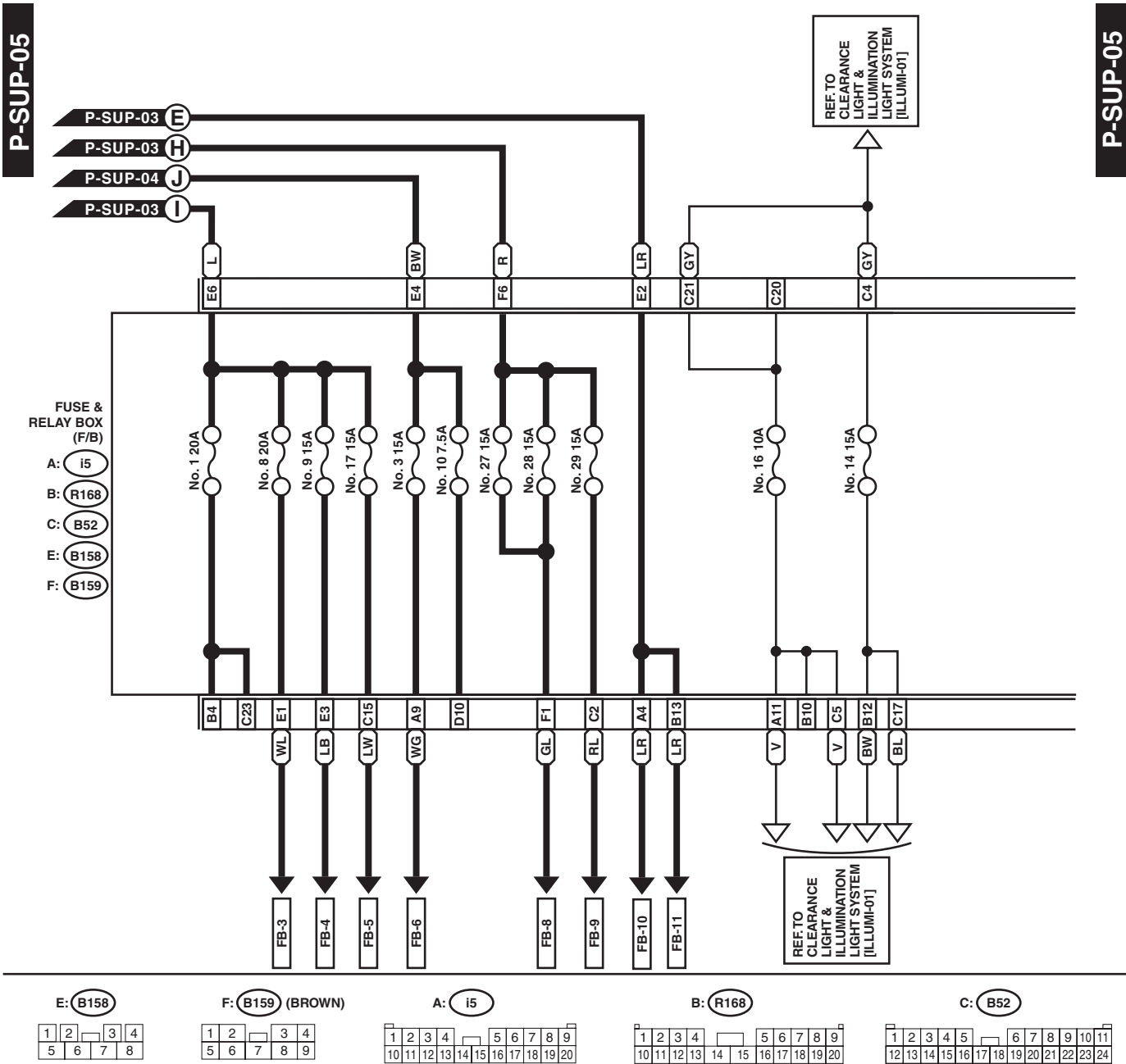
WIRING SYSTEM



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Power Supply Circuit

WIRING SYSTEM



WI-30375

WIRING SYSTEM



Power Supply Circuit

WIRING SYSTEM

No.	Load
MB-1	VDC CM
MB-2	VDC CM
MB-4	Sub fan relay
MB-5	Mirror heater LH
	Mirror heater RH
	Rear defogger
	A/C control panel (manual A/C)
MB-6	Body integrated unit
MB-7	Main fan relay 2
MB-8	Main fan motor
MB-9	ECM
MB-10	Main fan relay 2
MB-11	Main fan relay 2
MB-12	Body integrated unit
MB-13	Body integrated unit
MB-15	Front fog light relay
MB-16	Headlight LH (LO)
	Headlight RH (LO)
MB-17	Daytime running light relay
MB-18	Body integrated unit
MB-19	Horn
MB-20	Horn
MB-21	Horn switch
	Body integrated unit
MB-22	A/F, oxygen sensor relay
MB-23	Main relay
	A/F, oxygen sensor relay
MB-24	Electronic throttle control relay
MB-25	Fuel pump relay
MB-26	DCCD CM
	DCCD relay
MB-27	ECM
	Data link connector
MB-28	Key illumination
	Key warning switch
	Turn signal and hazard unit
MB-29	Spot map light
	Room light
	Body integrated unit
	Foot light LH
MB-30	Power window circuit breaker
MB-32	Tail & Illumination relay
	Daytime running light relay
MB-33	Secondary air pump relay
MB-34	Secondary air combination valve relay 1
	Secondary air combination valve relay 2
ALT-1	Combination meter
ST-1	Clutch start switch
ST-2	Starter relay
FB-3	Stop light and brake switch

No.	Load
FB-4	Wiper deicer relay
FB-5	Seat heater relay
FB-6	Body integrated unit
FB-8	Blower motor relay
FB-9	Front fog light relay
FB-10	Audio
	Clock
	Foot light RH
	Navigation unit
FB-11	Keyless entry CM (without TPMS)
	TPMS & keyless entry CM (with TPMS)
	Trunk room light (4 door model)
	Luggage room light (5 door model)
FB-17	A/C control panel (auto A/C)
	Combination meter
FB-18	Body integrated unit
	Impact sensor
	Mode door actuator
	Air mix door actuator
FB-19	Remote control mirror switch
FB-20	Seat heater relay
	Rear view mirror
FB-21	Rear accessory power supply socket
FB-22	Front accessory power supply socket
FB-23	Rear wiper motor
FB-24	Body integrated unit
	Rear washer motor
FB-25	Audio
	Navigation unit
FB-27	Combination switch
	Front wiper motor
FB-28	A/C control panel (auto A/C)
FB-29	Body integrated unit
FB-32	Clutch switch
	Impact sensor
	Data link connector
	Stop light and brake switch
	Wiper deicer relay
	Sunroof motor assembly
	Sunroof switch
	Sunroof switch (tilt)
FB-34	Turn signal and hazard unit
FB-35	Back-up light switch
FB-36	Combination meter
	Clock

Power Supply Circuit

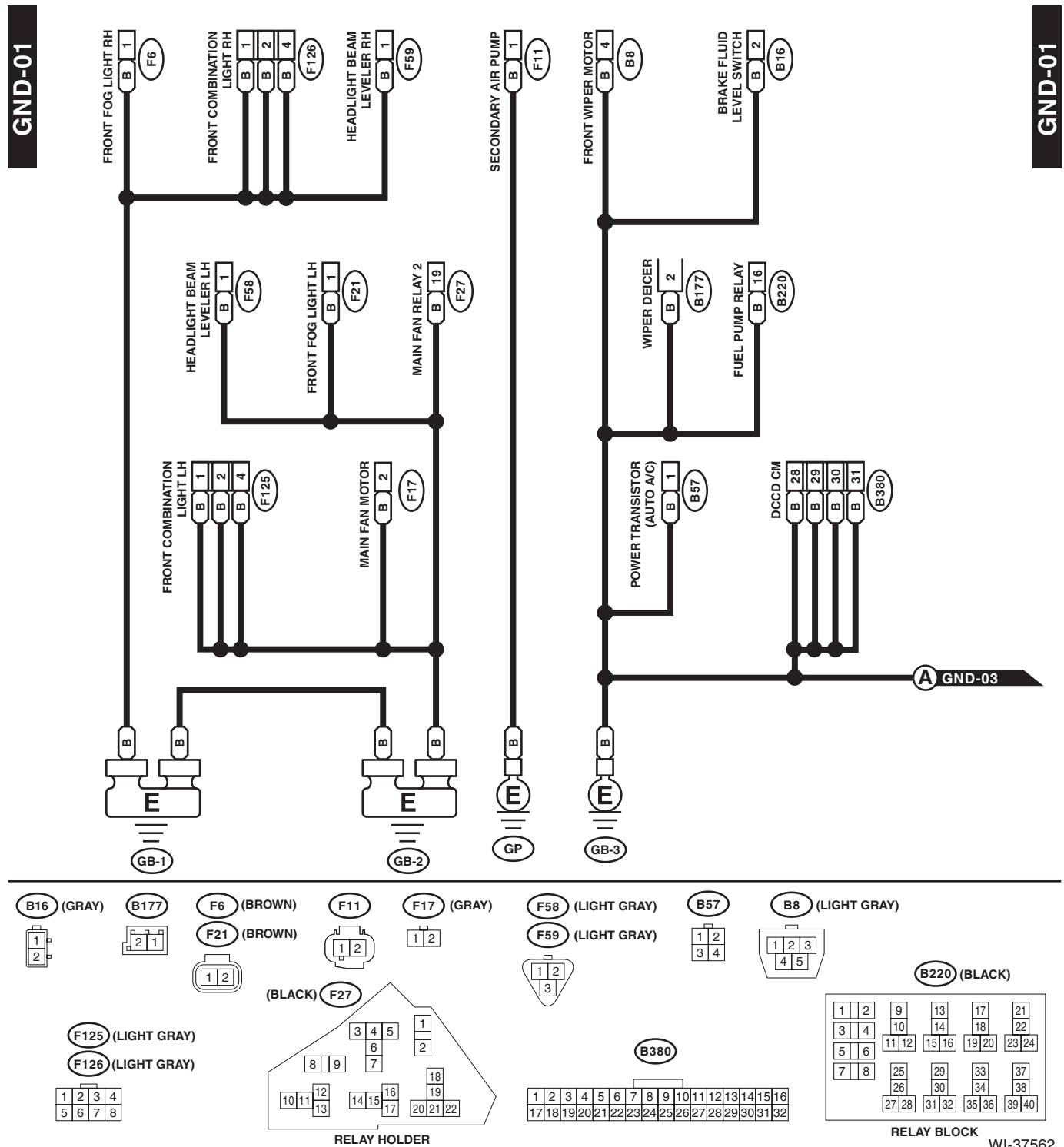
WIRING SYSTEM

No.	Load
FB-38	ECM
	Body integrated unit
	Fuel pump relay
	Ignition coil No. 1
	Ignition coil No. 2
	Ignition coil No. 3
	Ignition coil No. 4
	DCCD CM
	DCCD relay
FB-41	Airbag CM
FB-42	Power window relay
FB-44	VDC CM
	Steering angle sensor
	Yaw rate & G sensor
FB-45	A/C control panel
FB-46	A/C relay
	Intake door actuator
	Sub fan relay
	Pressure switch
	Blower motor relay
FB-47	Occupant detection control module
FB-48	TPMS & keyless entry CM (with TPMS)
FB-49	Front washer motor

4. Ground Circuit

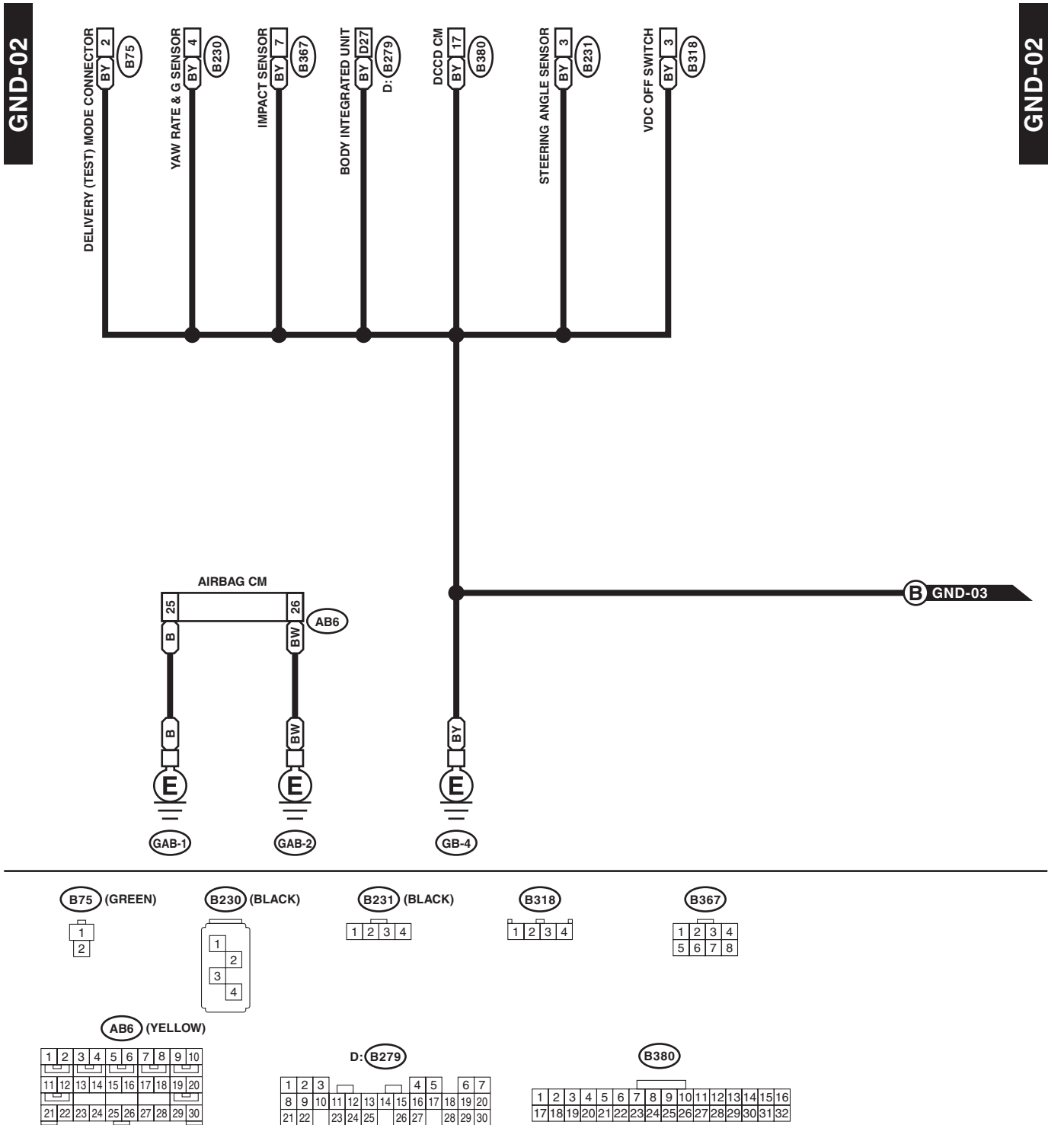
A: WIRING DIAGRAM

1. BODY GROUND



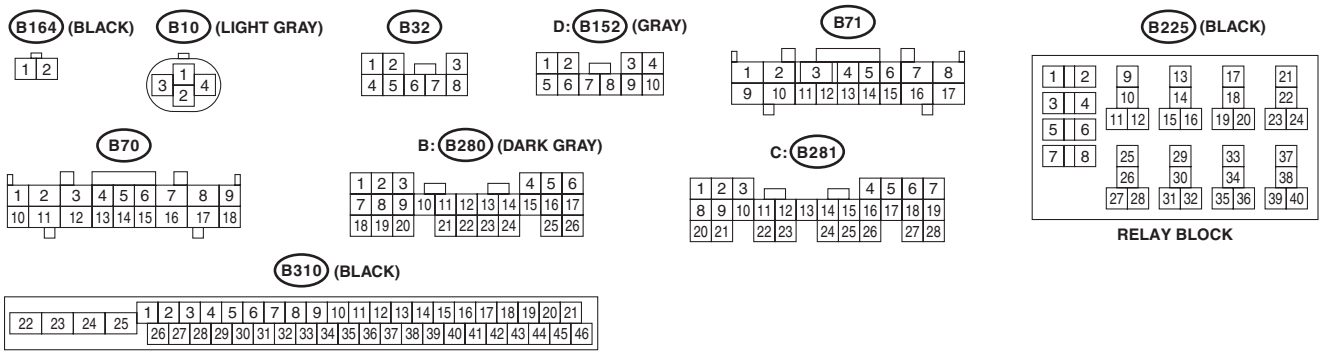
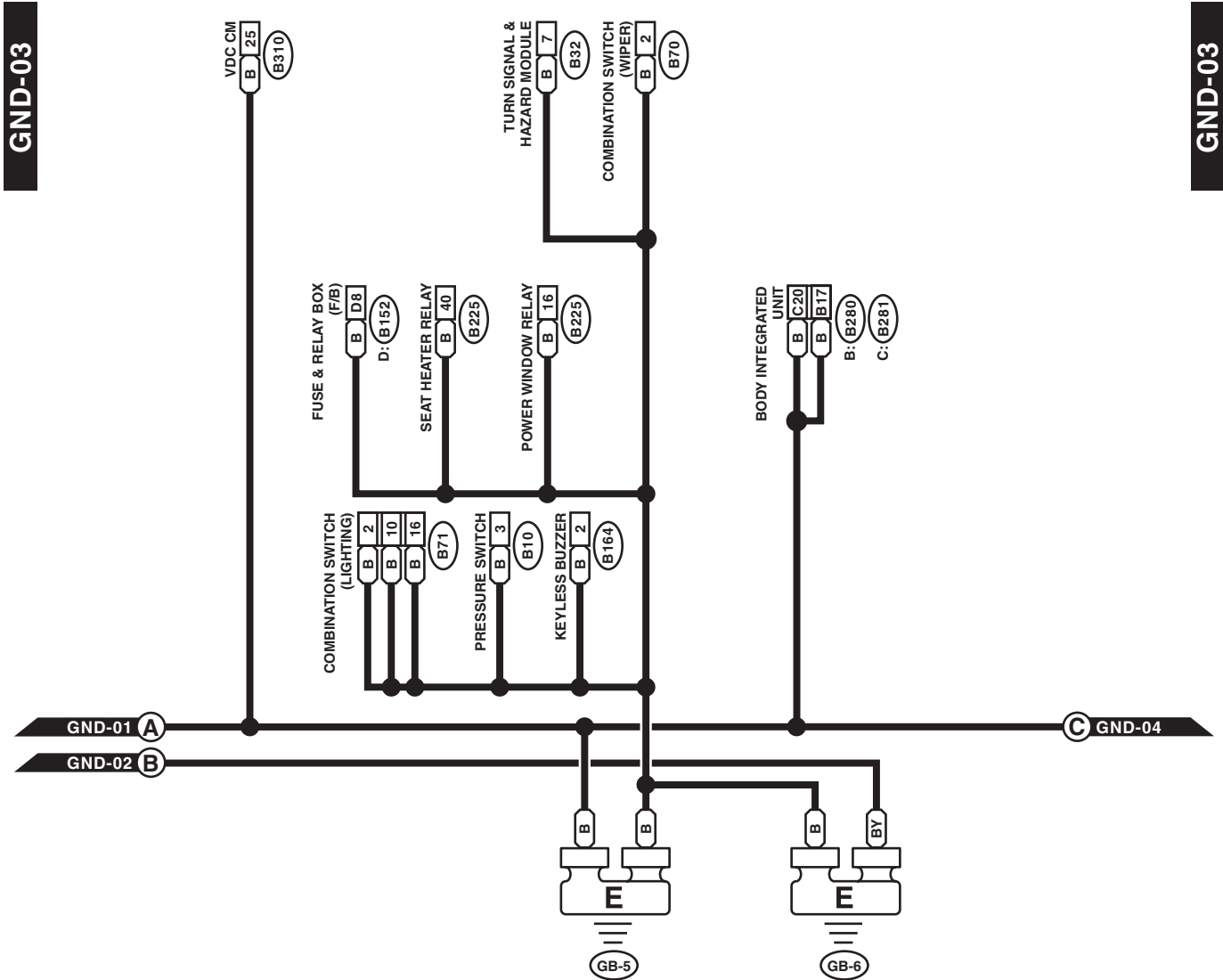
Ground Circuit

WIRING SYSTEM



Ground Circuit

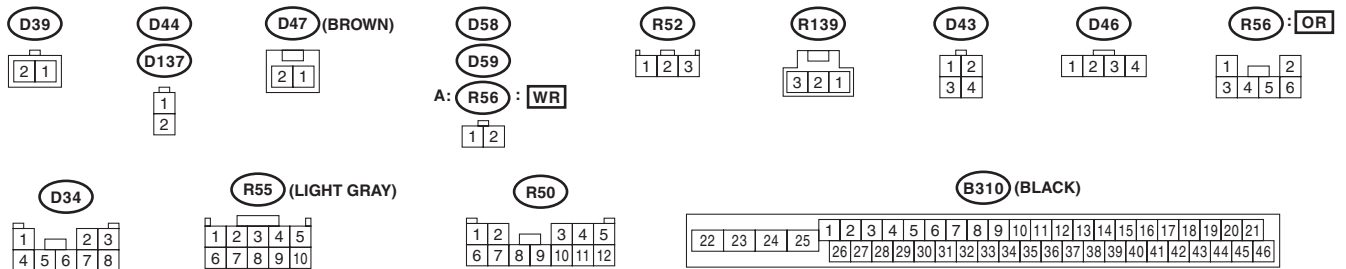
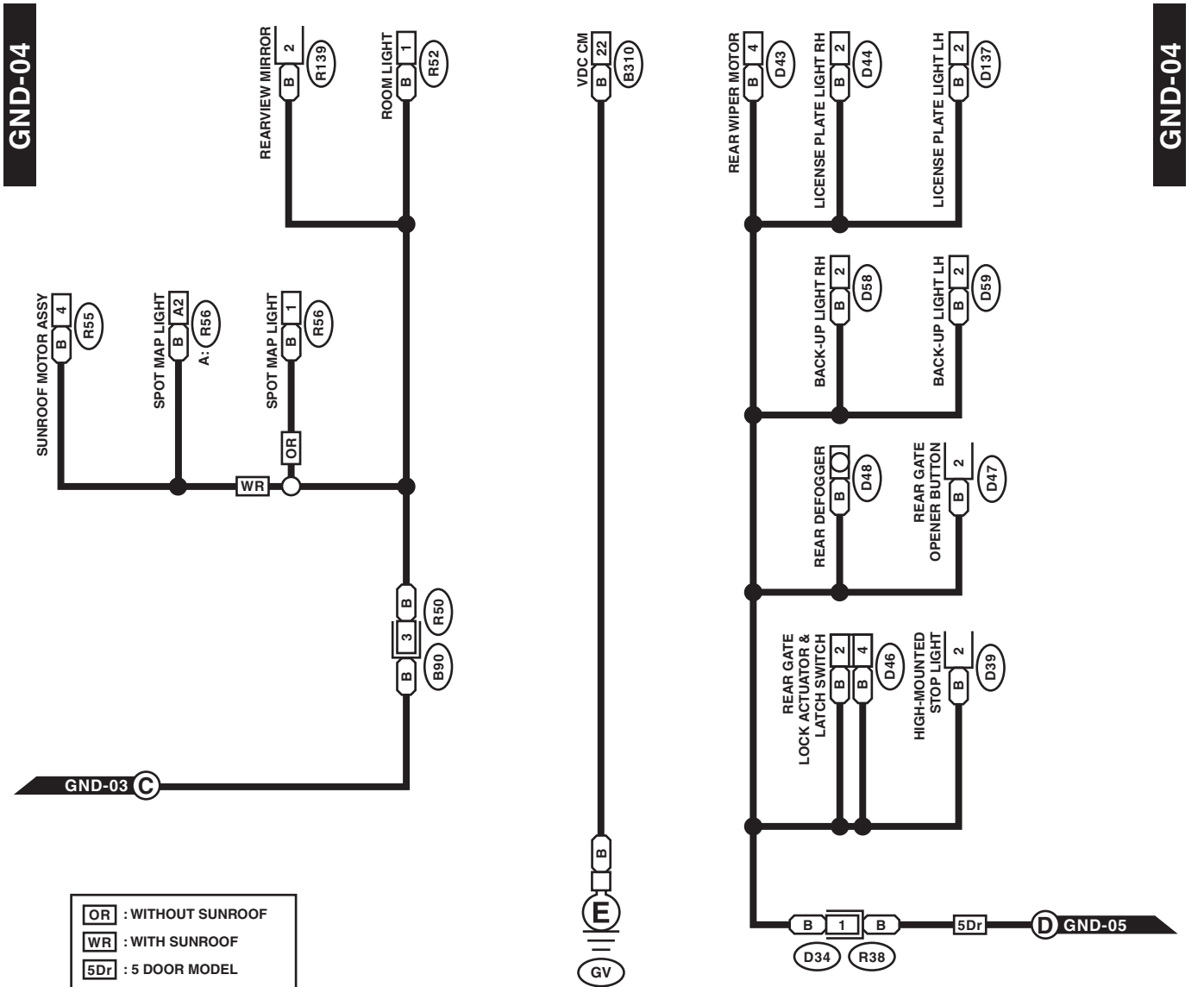
WIRING SYSTEM



WI-37563

Ground Circuit

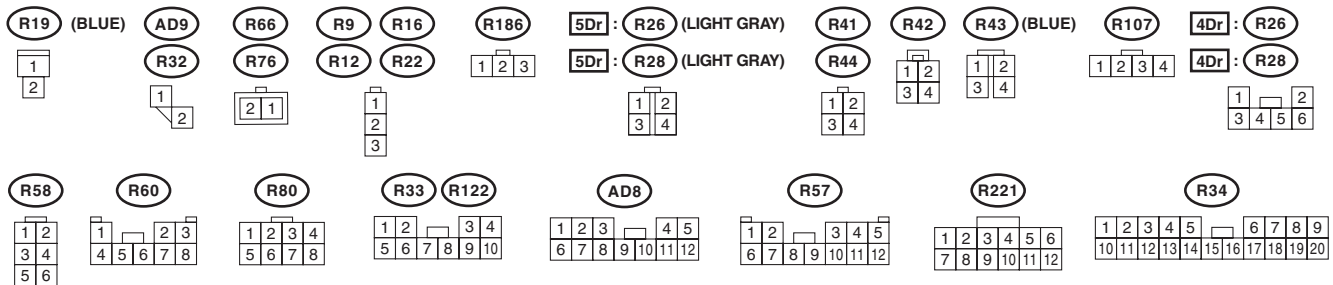
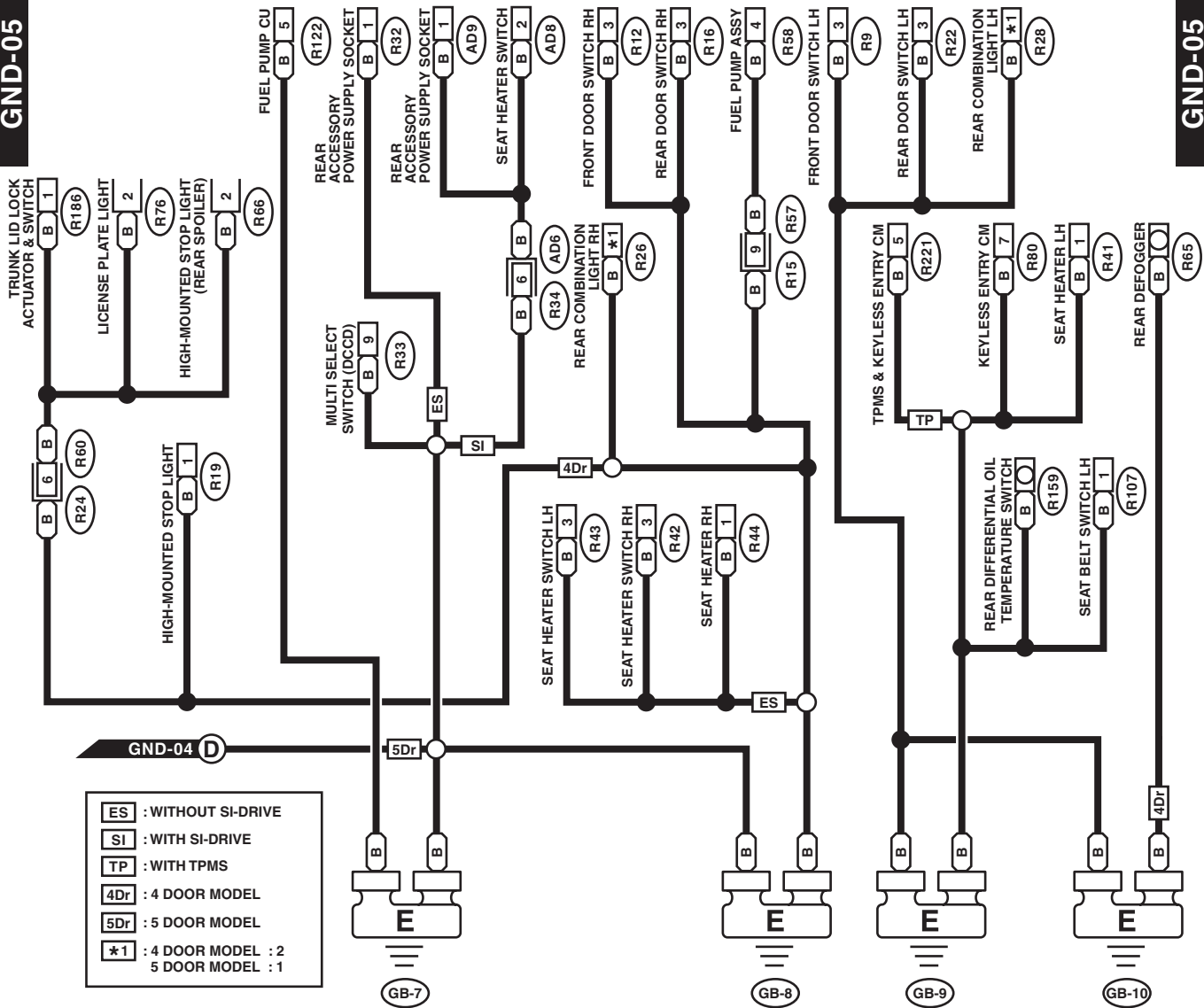
WIRING SYSTEM



WI-37564

GND-05

GND-05



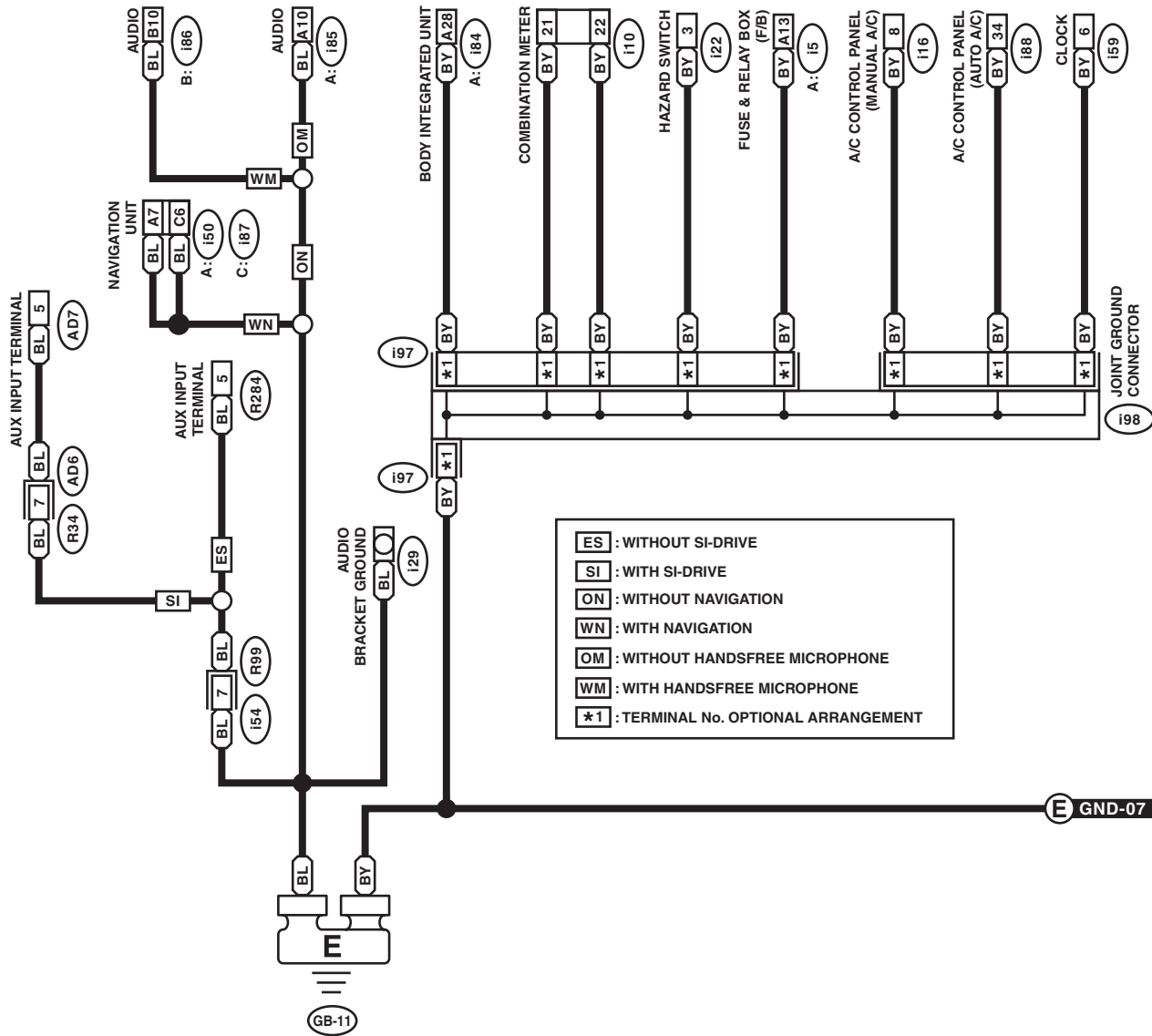
WI-30381

Ground Circuit

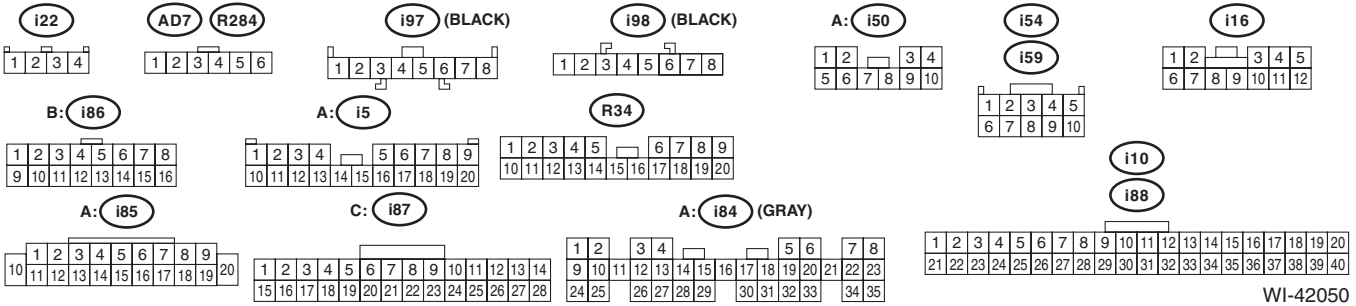
WIRING SYSTEM

GND-06

GND-06



E GND-07



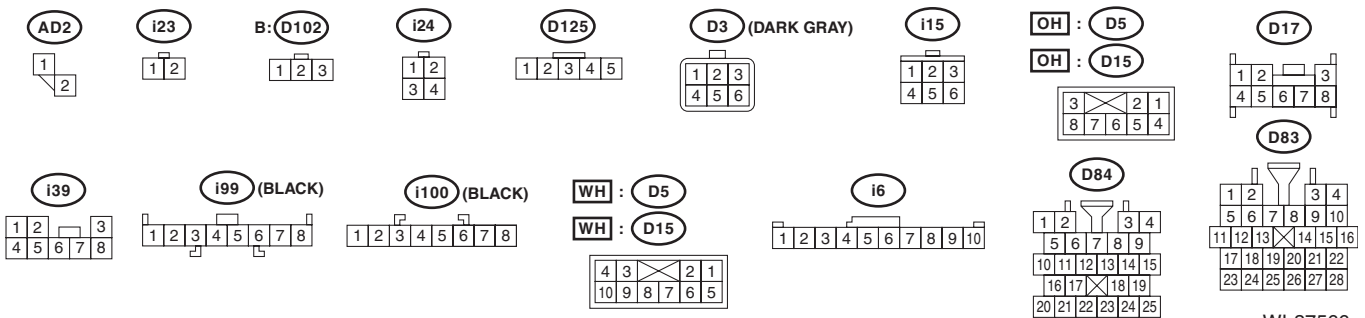
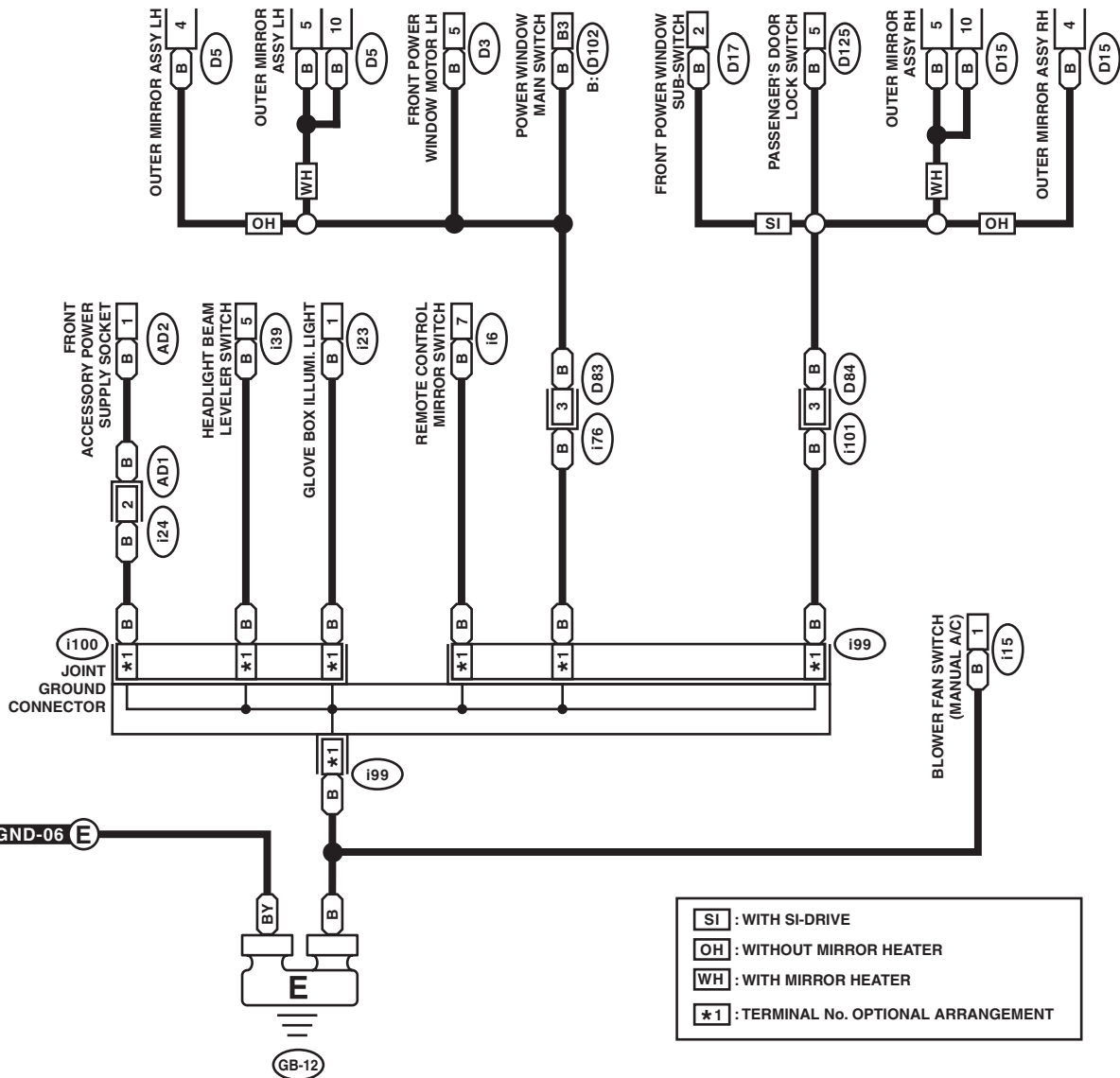
WI-42050

Ground Circuit

WIRING SYSTEM

GND-07

GND-07



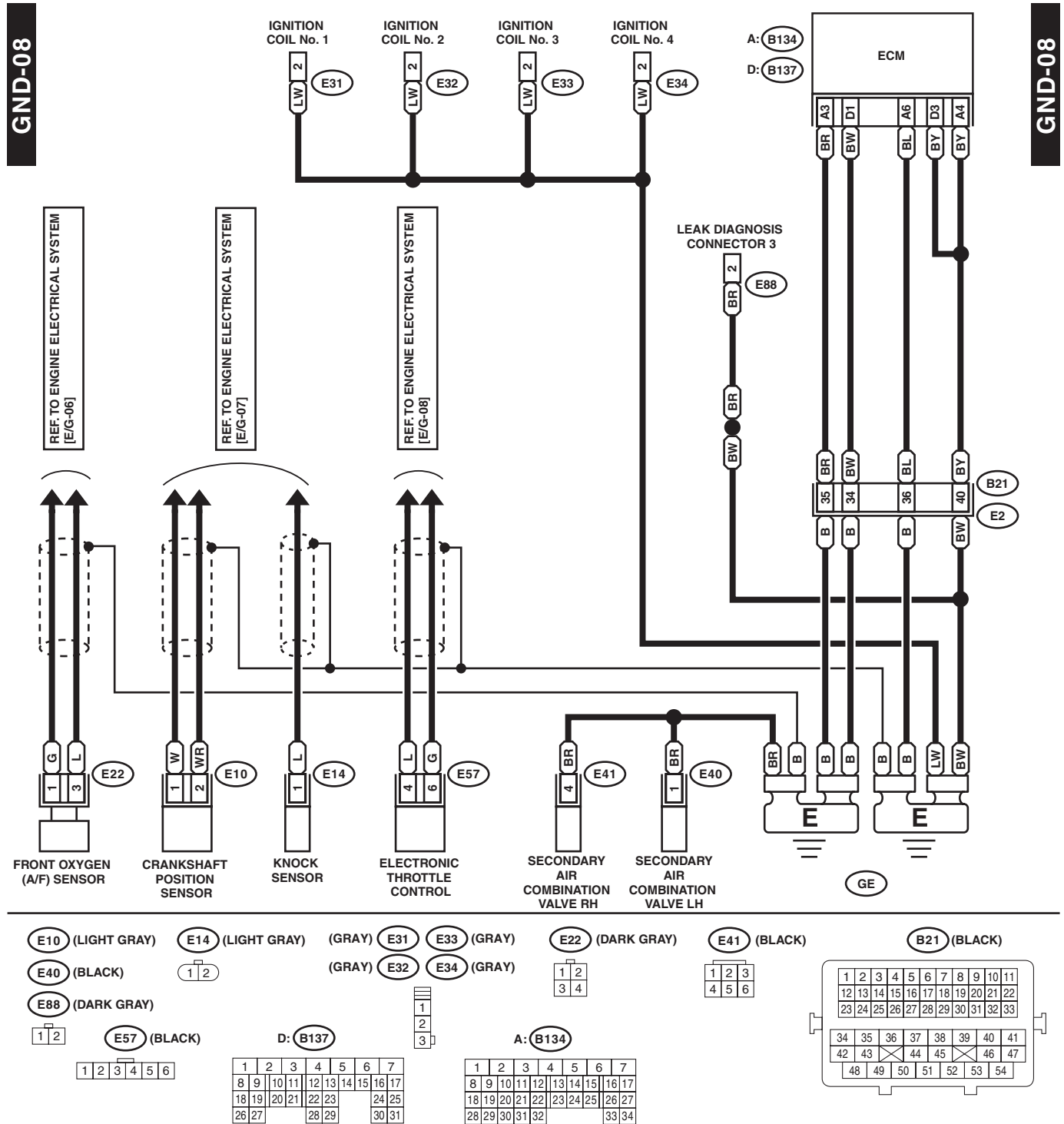
WI-37566

Ground Circuit

WIRING SYSTEM

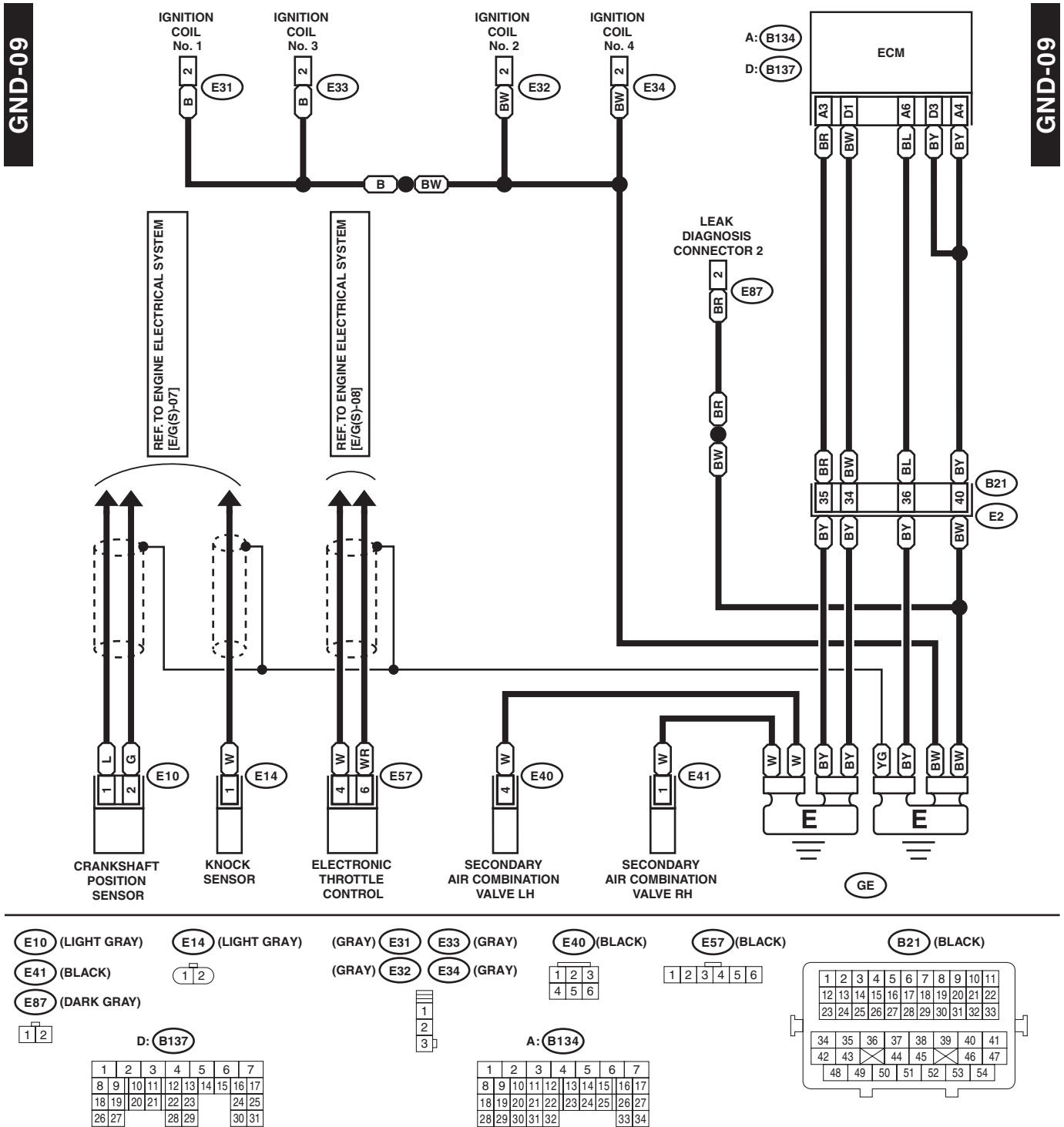
2. ENGINE GROUND

• Without SI-DRIVE



WI-33871

• With SI-DRIVE



WI-37567

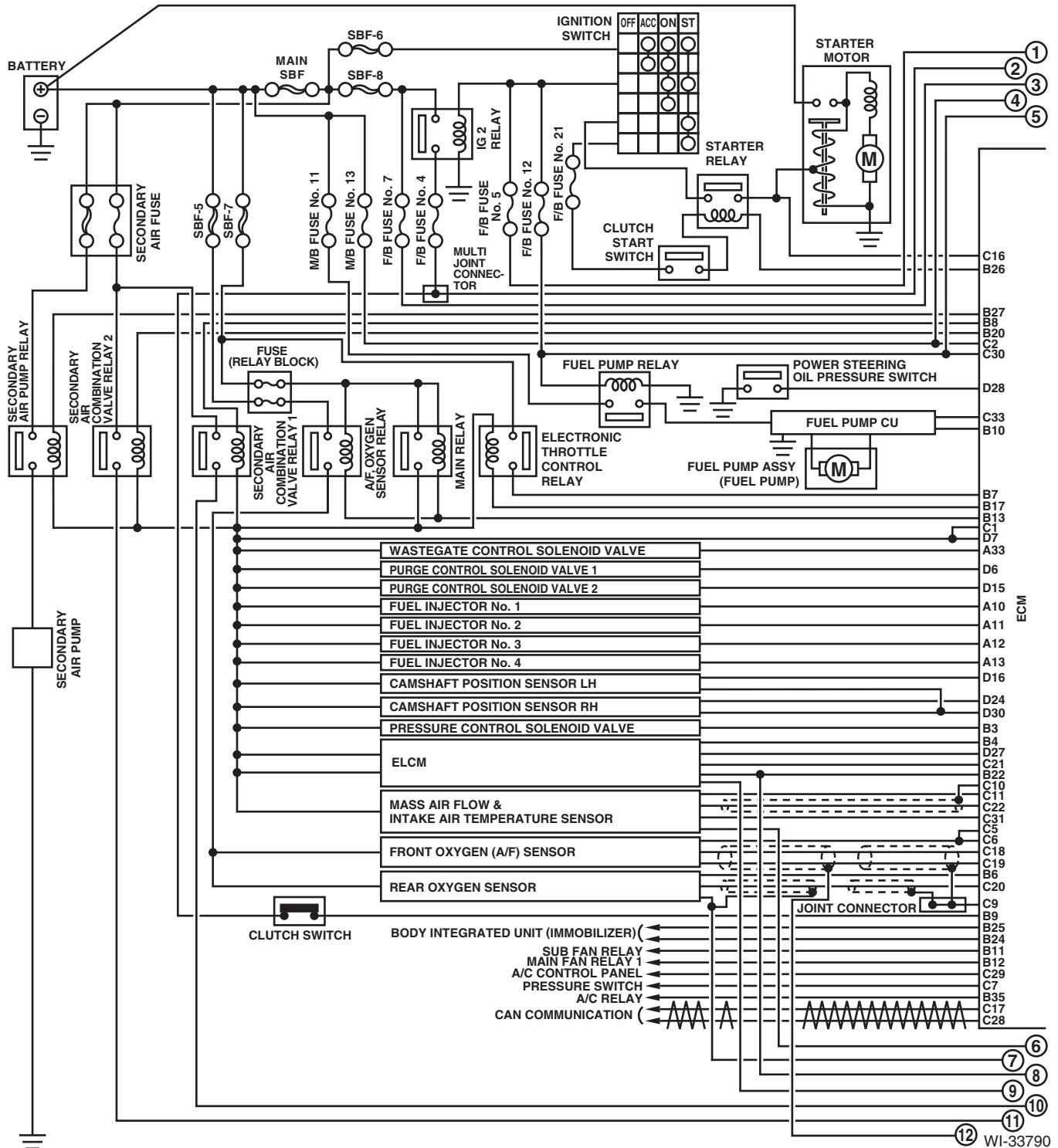
Engine Electrical System

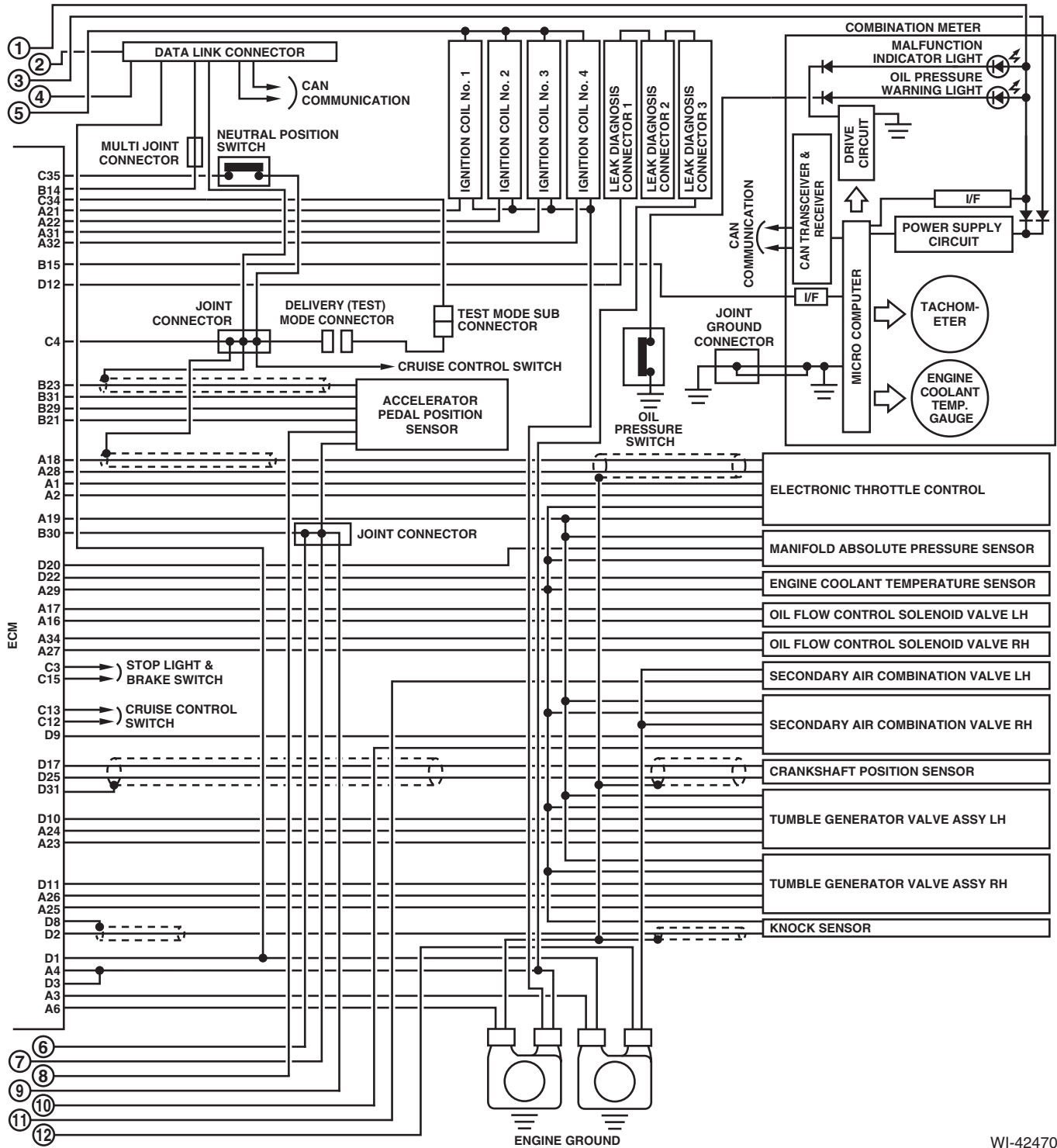
WIRING SYSTEM

5. Engine Electrical System

A: WIRING DIAGRAM

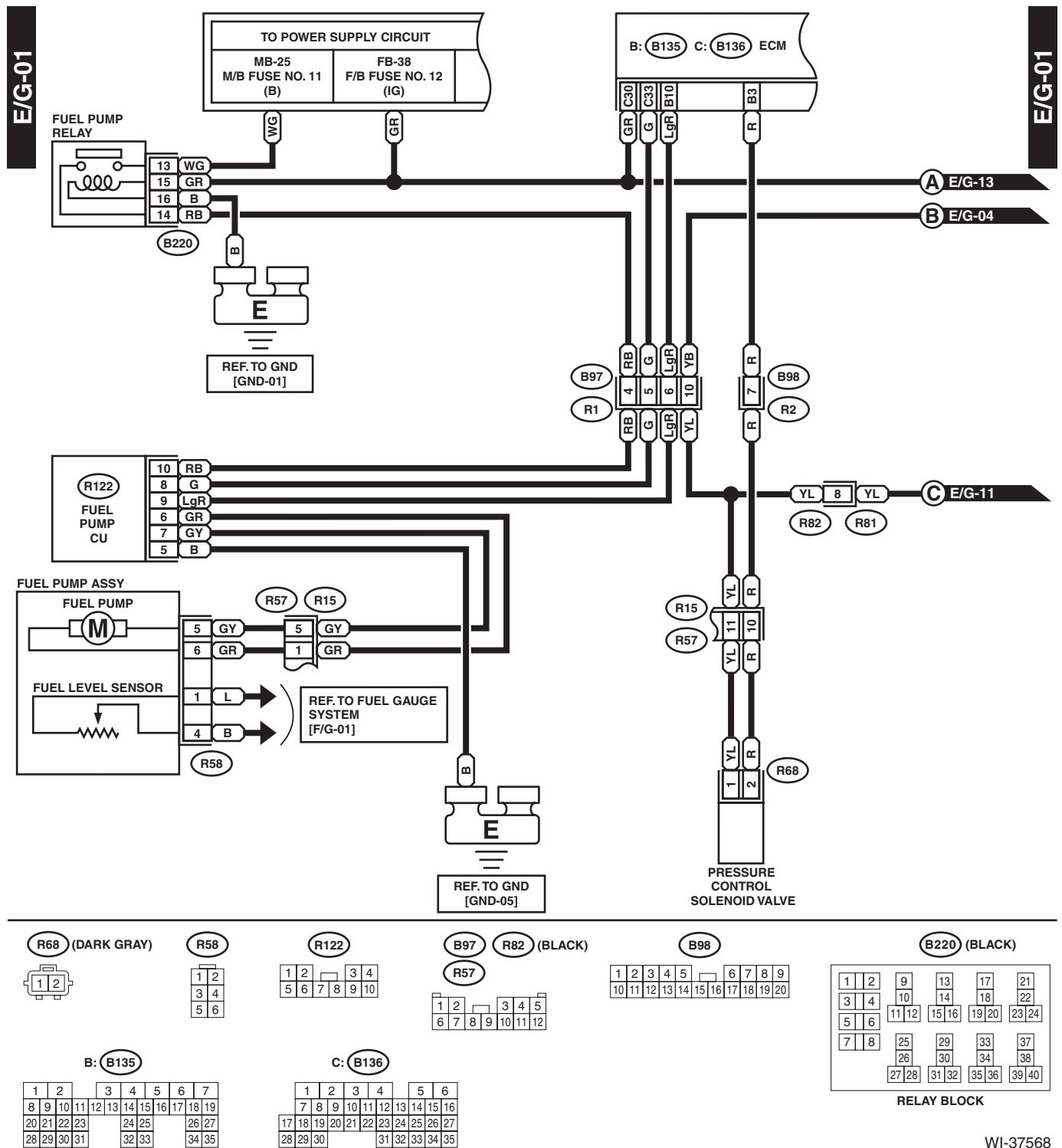
1. WITHOUT SI-DRIVE

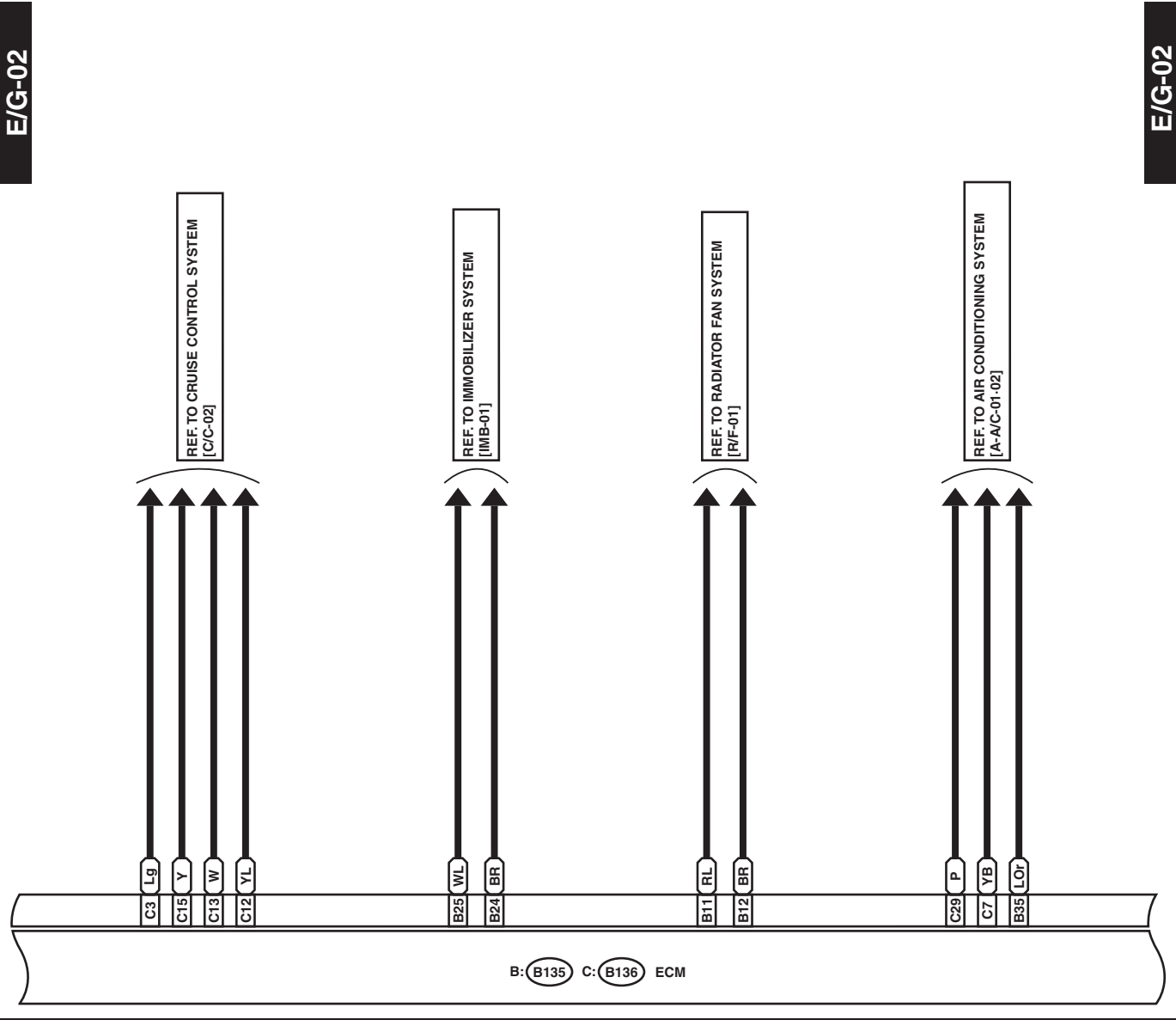




WI-42470

WIRING SYSTEM





B: B135

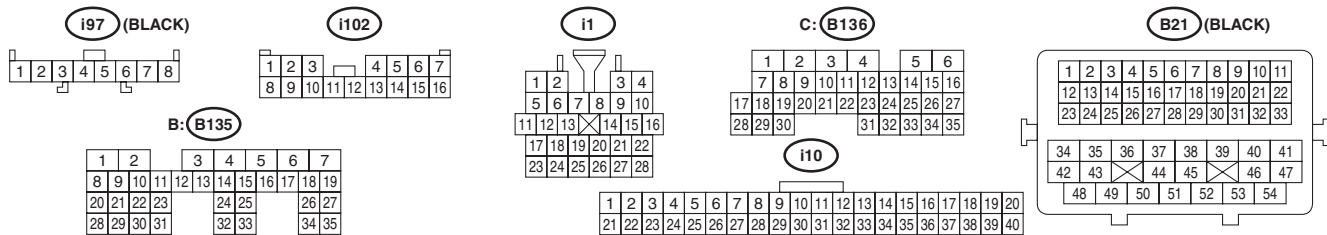
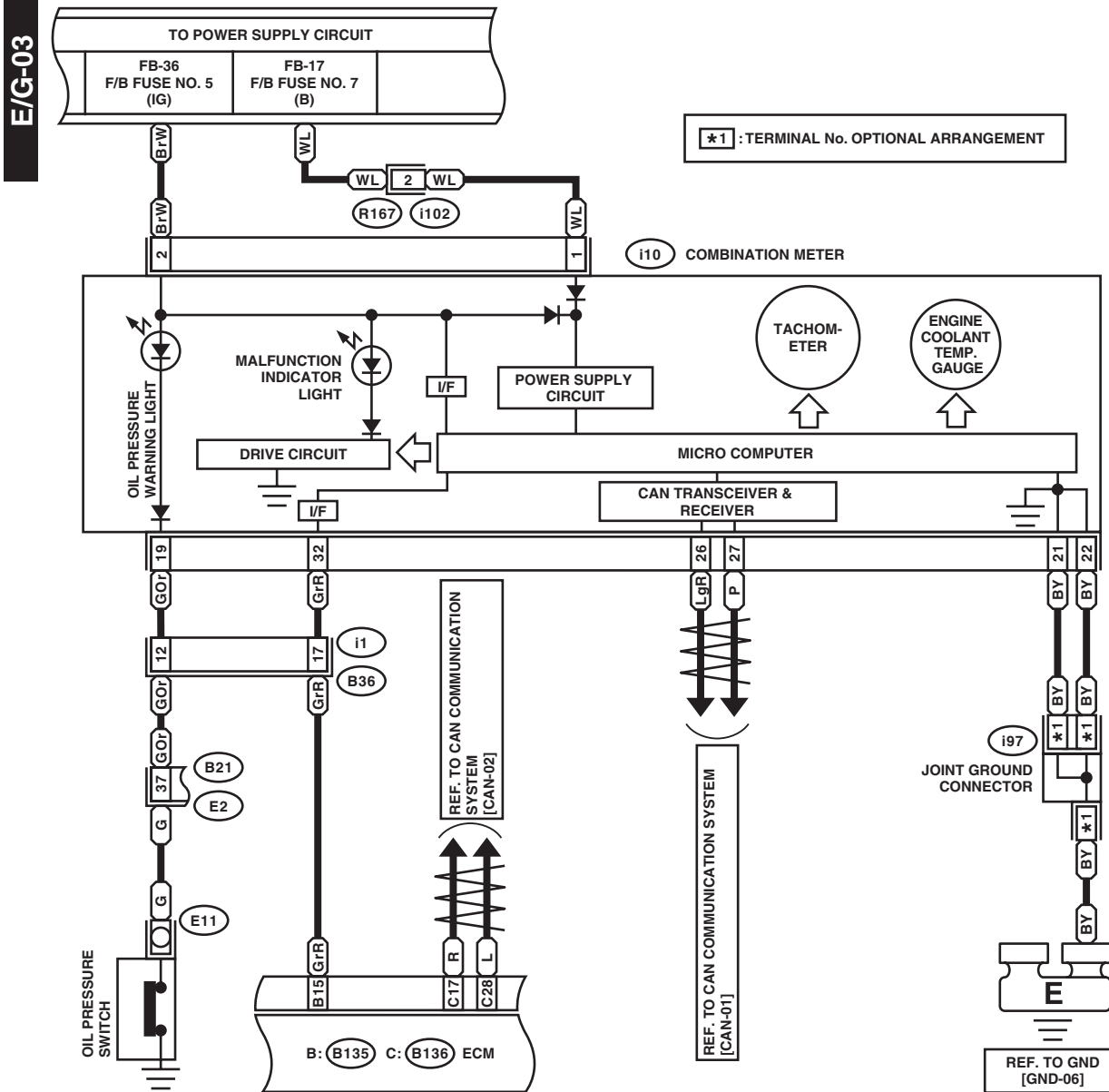
1	2		3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35				

C: B136

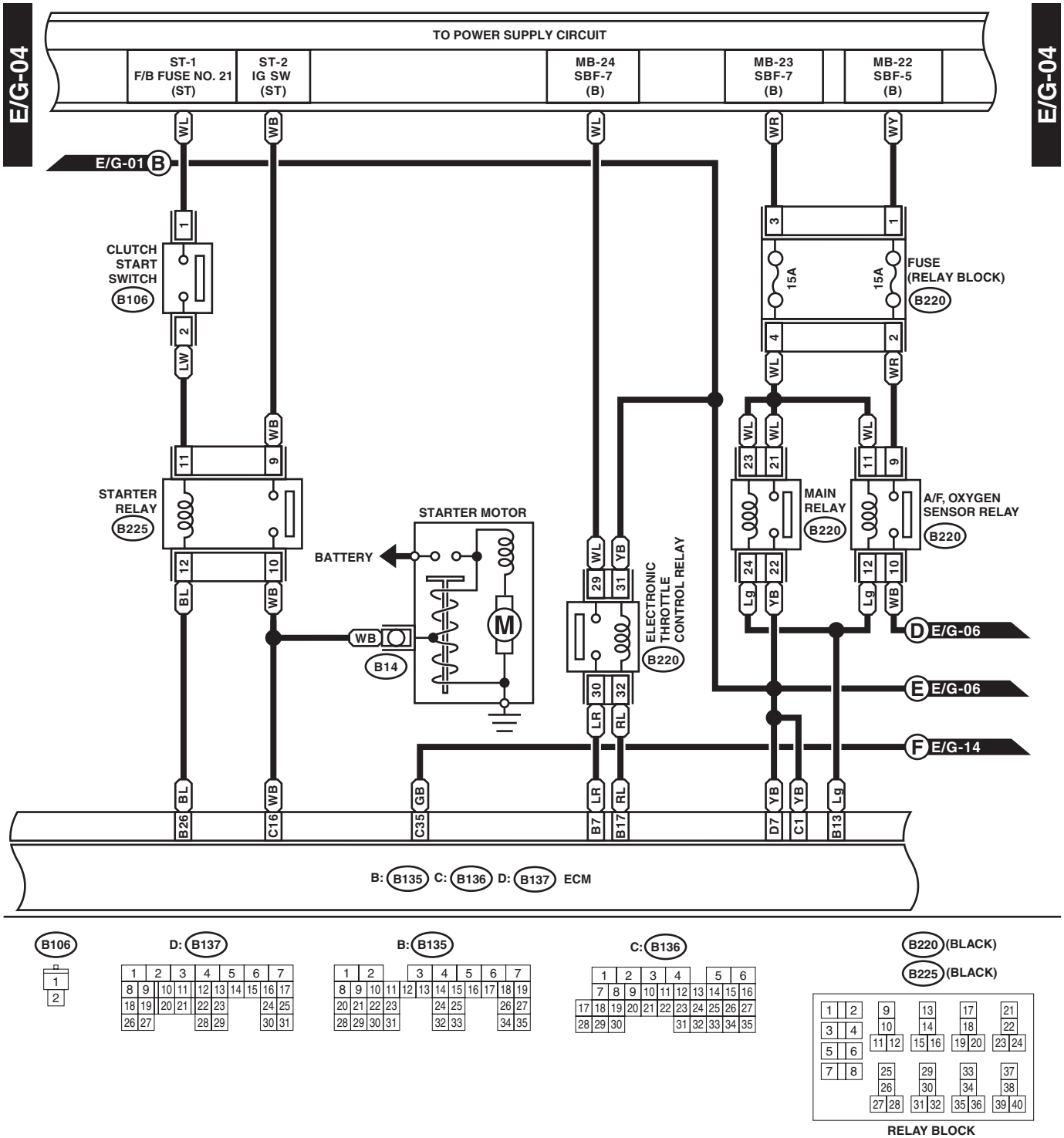
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

E/G-03

E/G-03

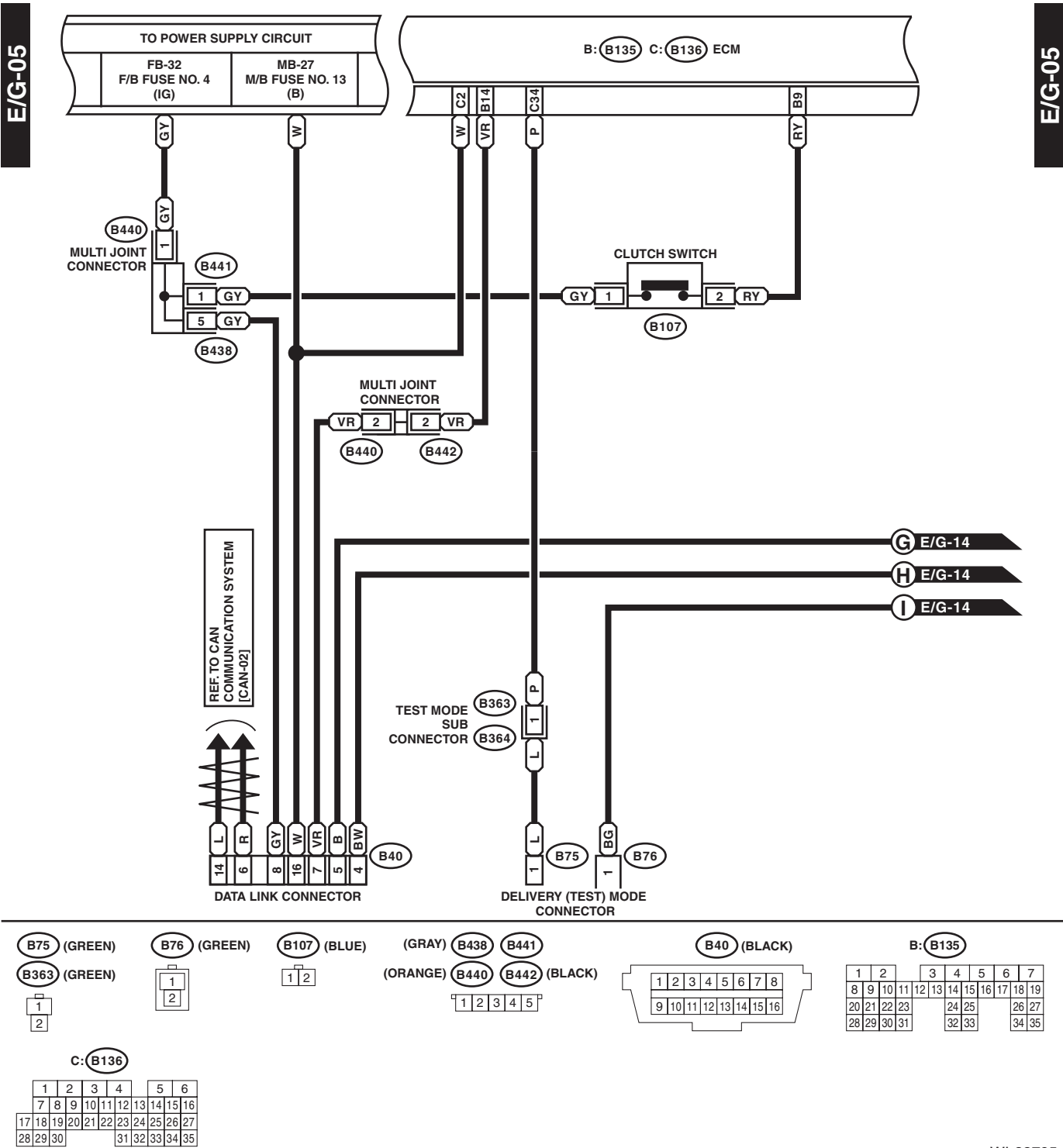


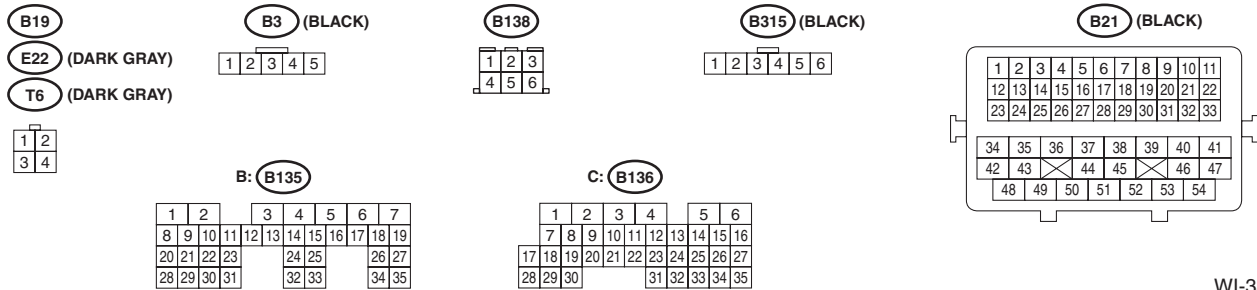
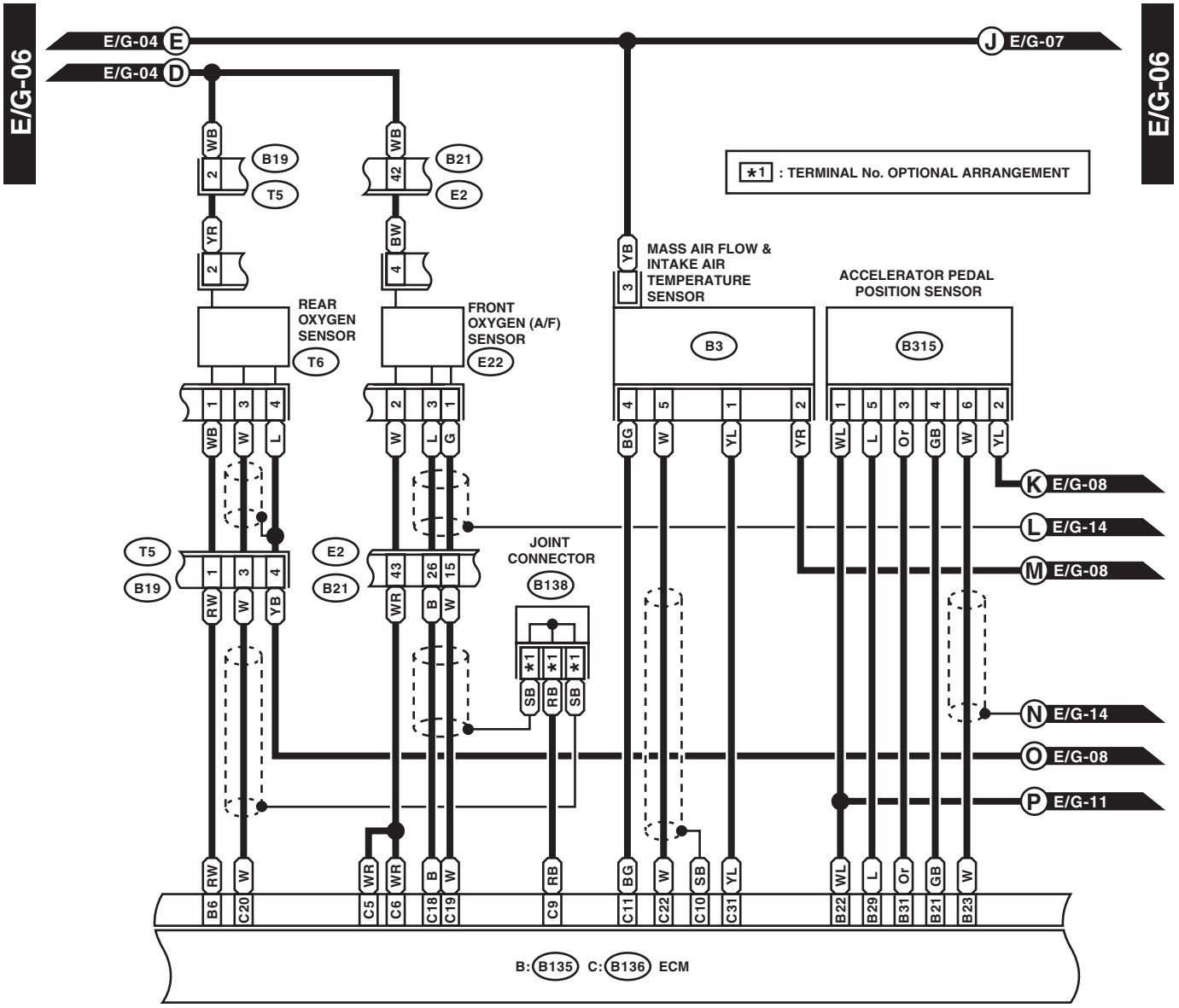
WI-42471



Engine Electrical System

WIRING SYSTEM

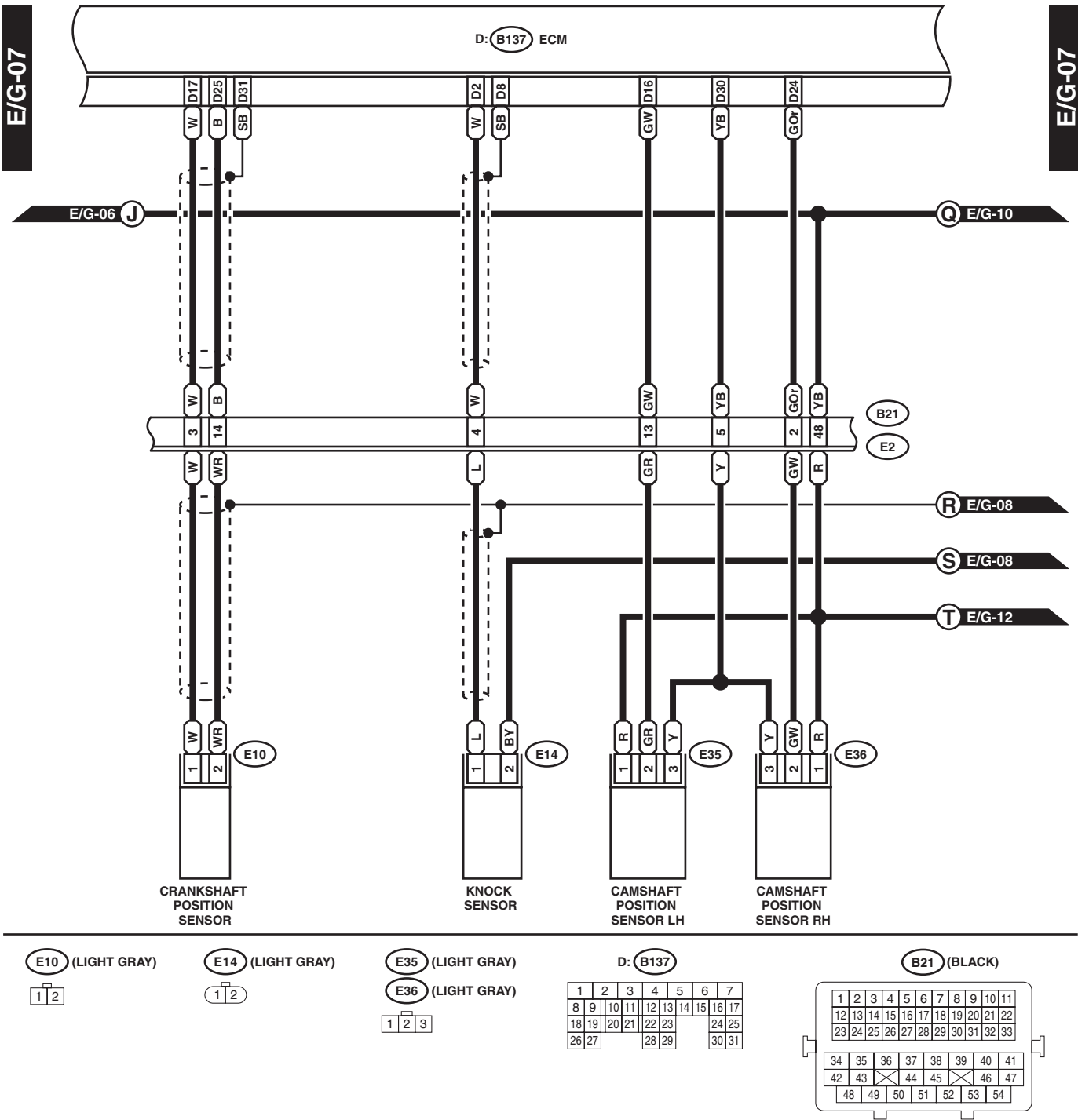




WI-33796

Engine Electrical System

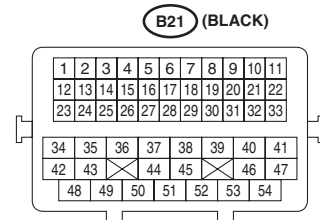
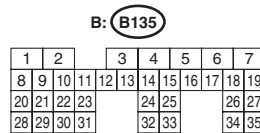
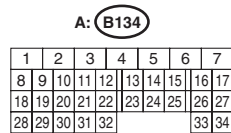
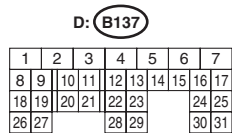
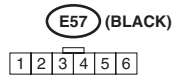
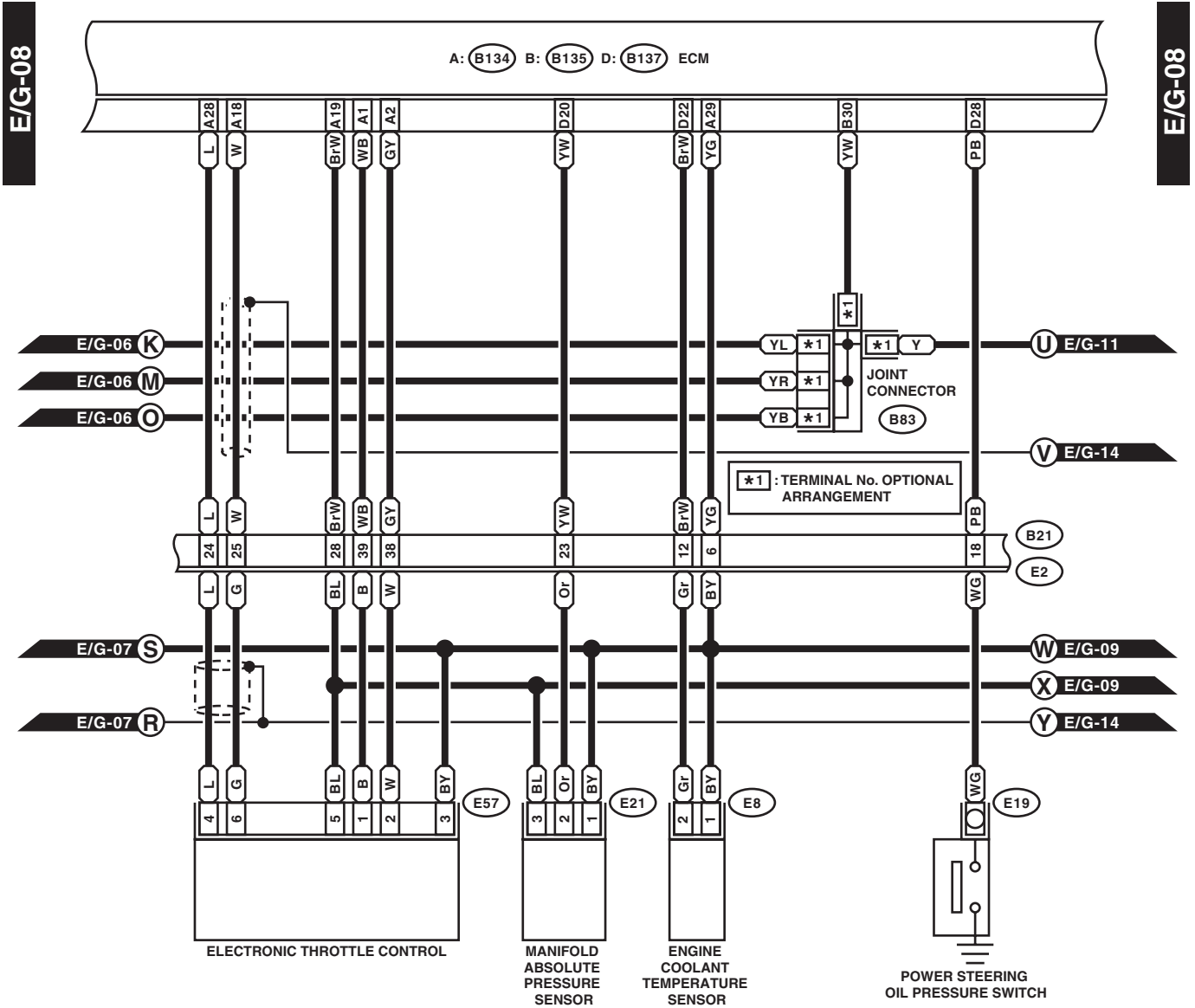
WIRING SYSTEM



WI-33797

Engine Electrical System

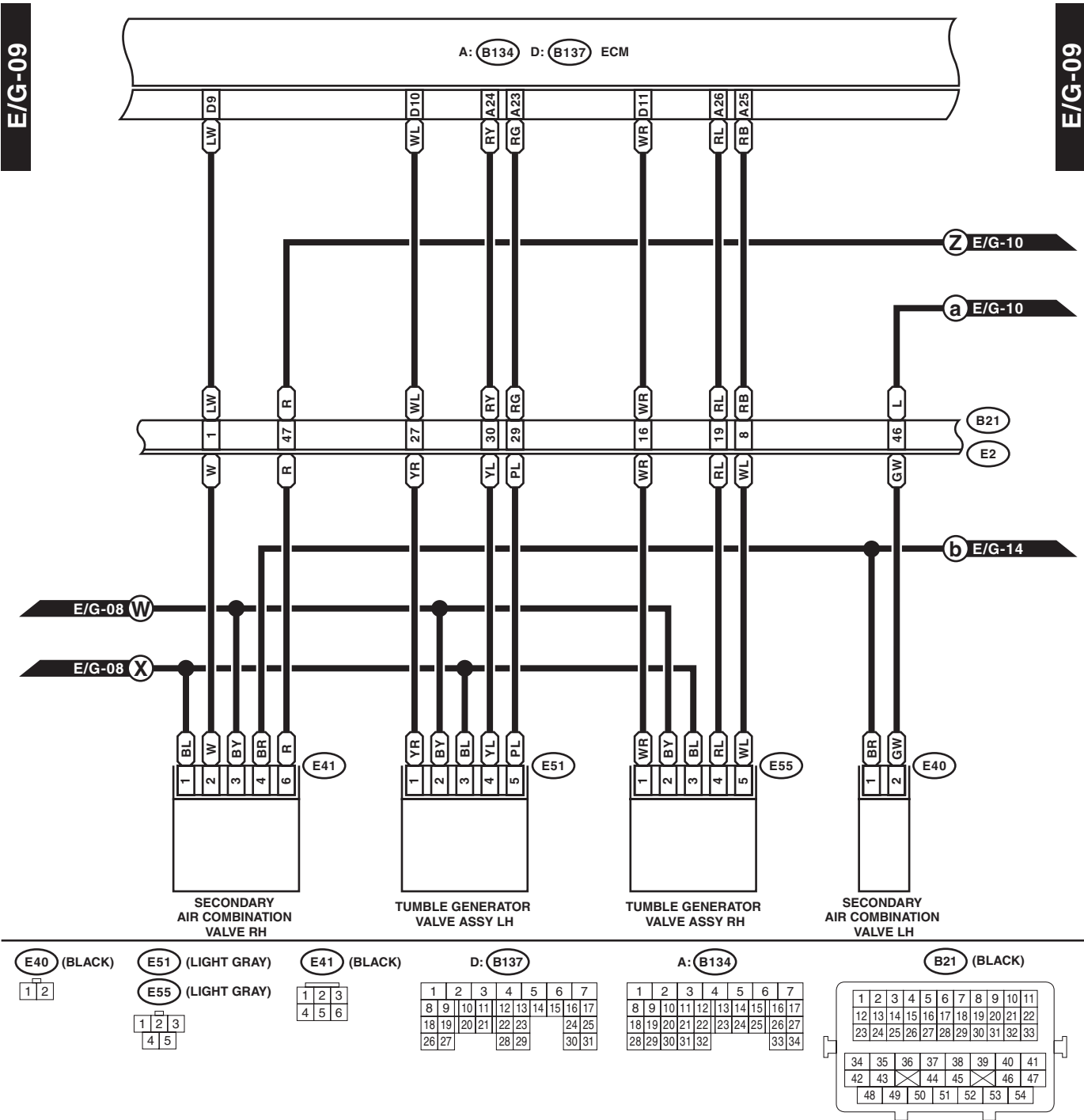
WIRING SYSTEM



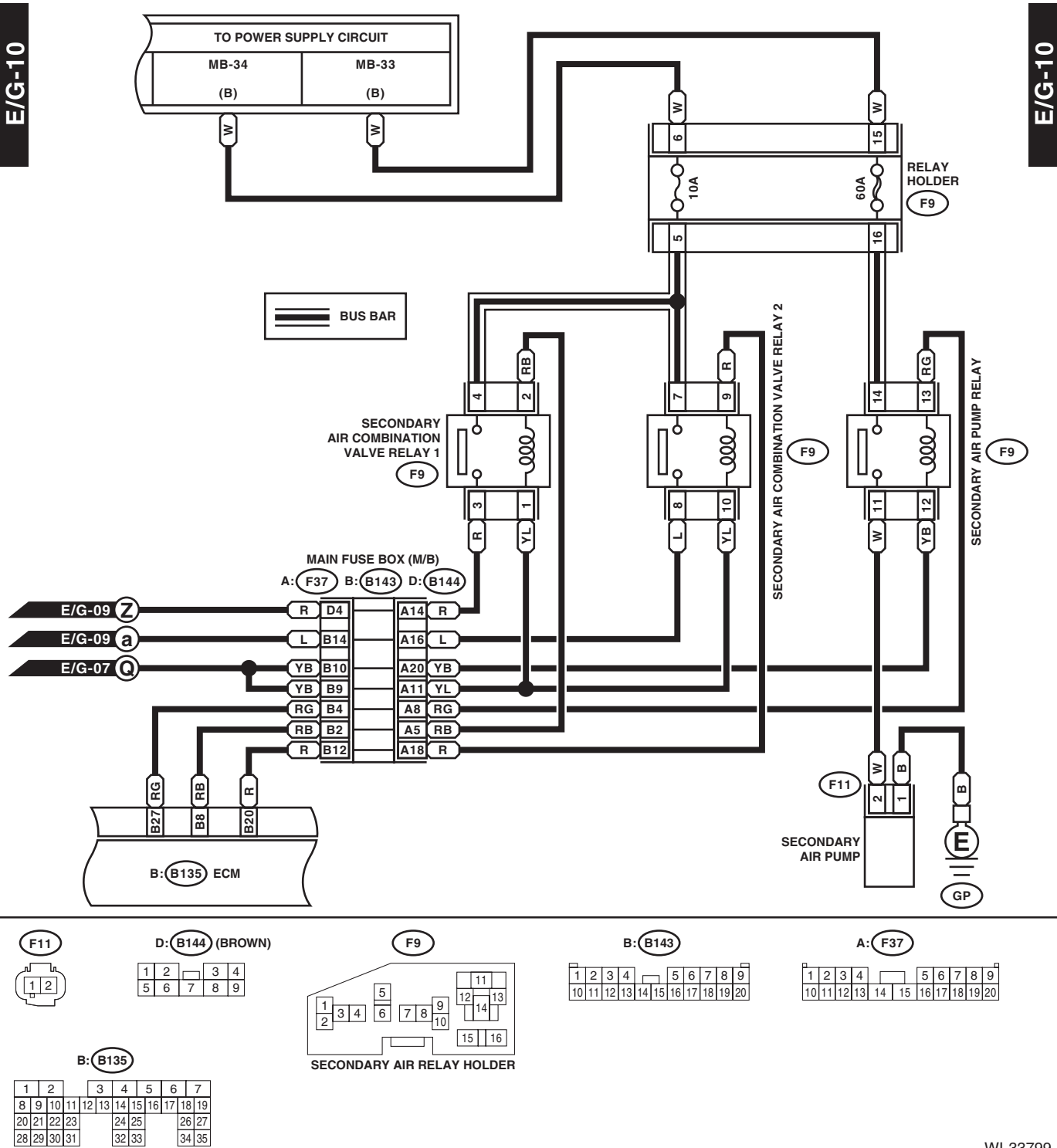
WI-33798

Engine Electrical System

WIRING SYSTEM



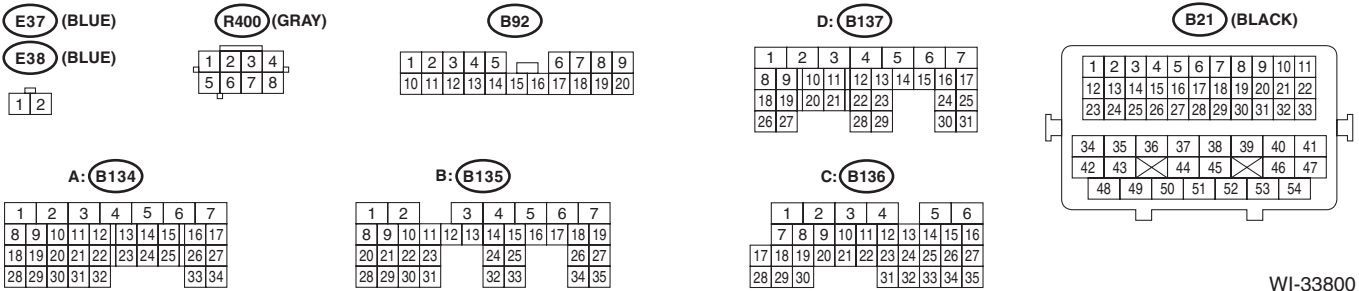
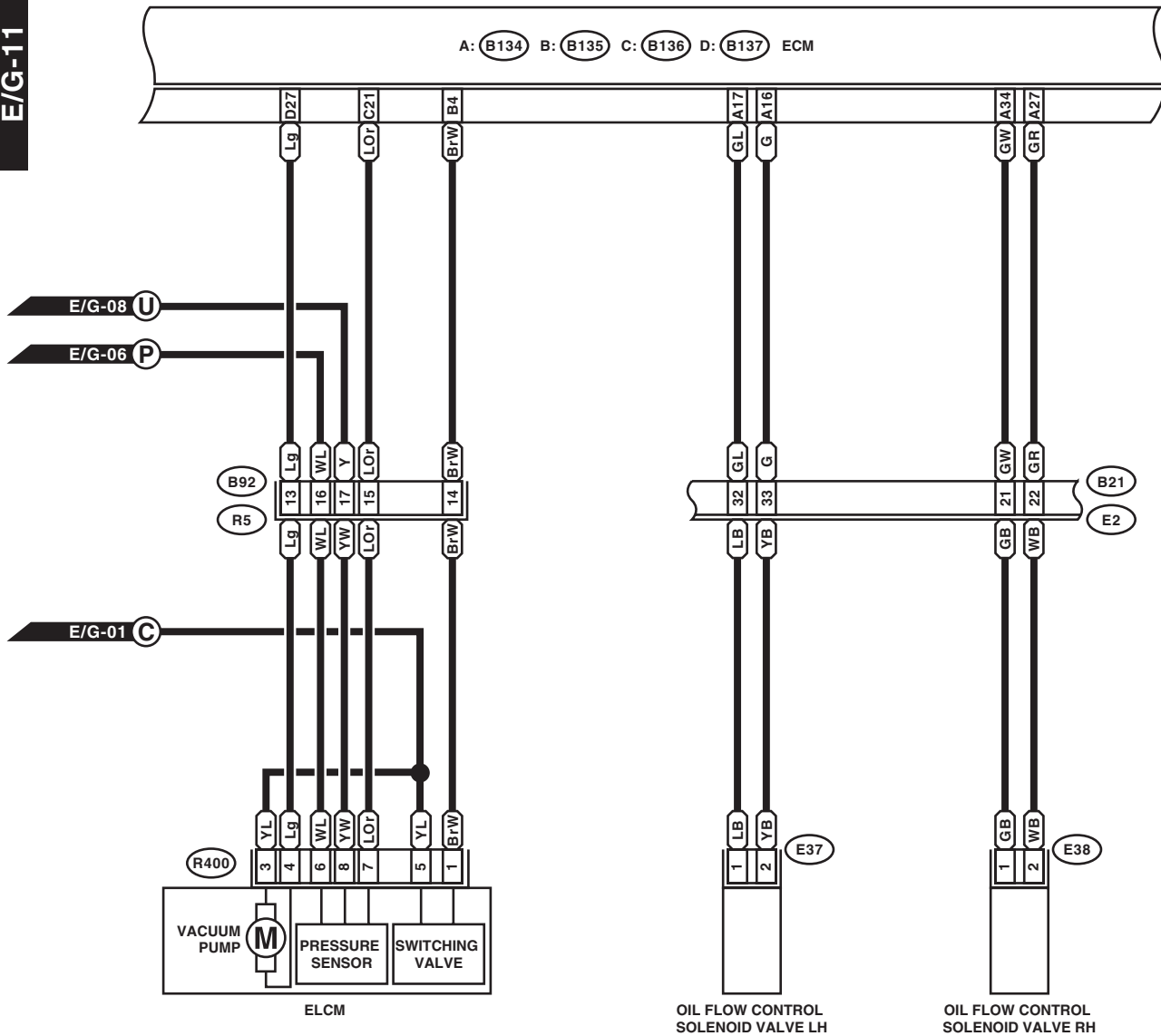
WI-30396



WI-33799

E/G-11

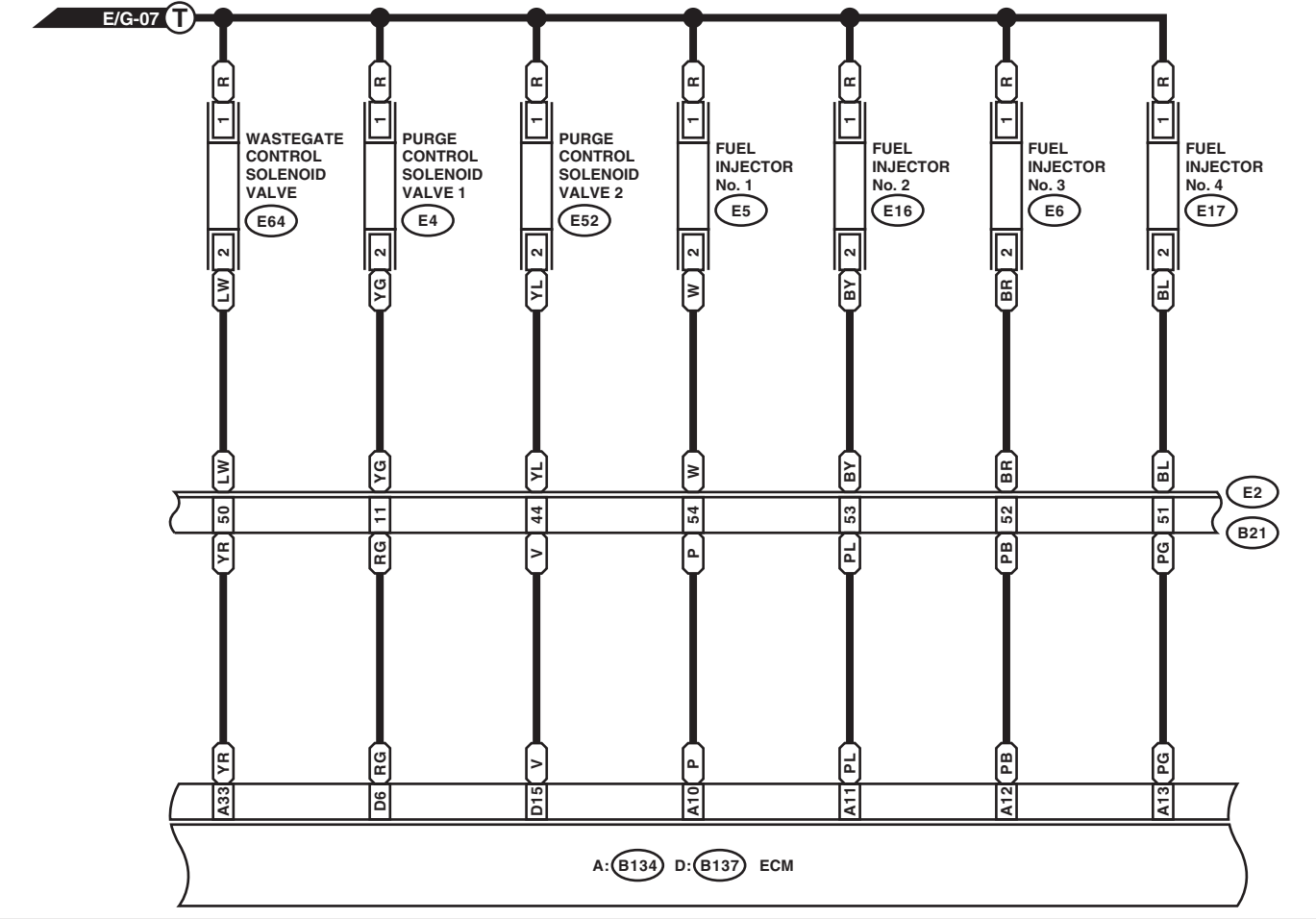
E/G-11



WI-33800

E/G-12

E/G-12



E4 (BLACK)

E52 (BLACK)

E64 (BLUE)

1

2

E5 (DARK GRAY)

E6 (DARK GRAY)

E16 (DARK GRAY)

E17 (DARK GRAY)

1

2

D: B137

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

A: B134

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

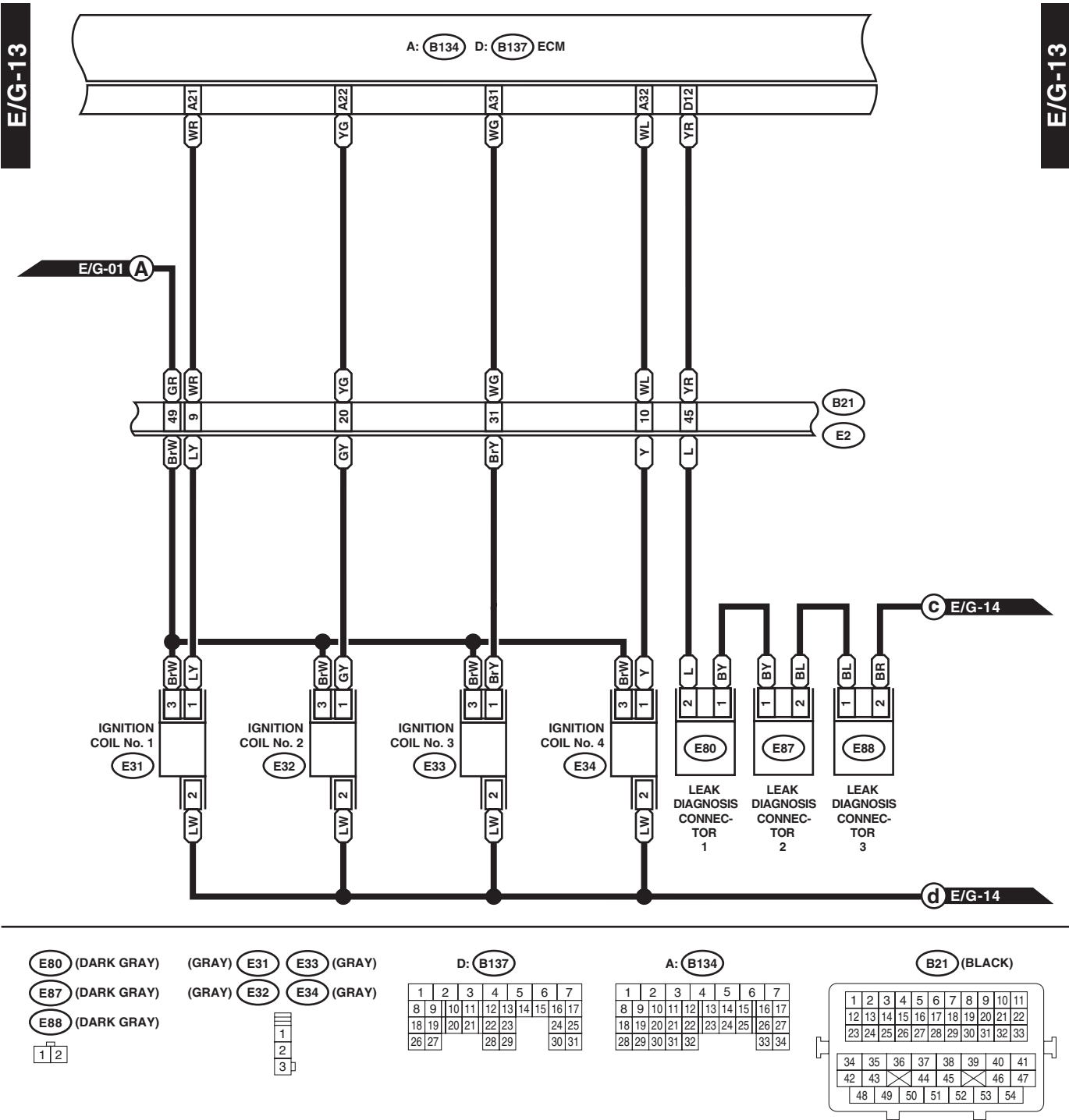
B21 (BLACK)

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	

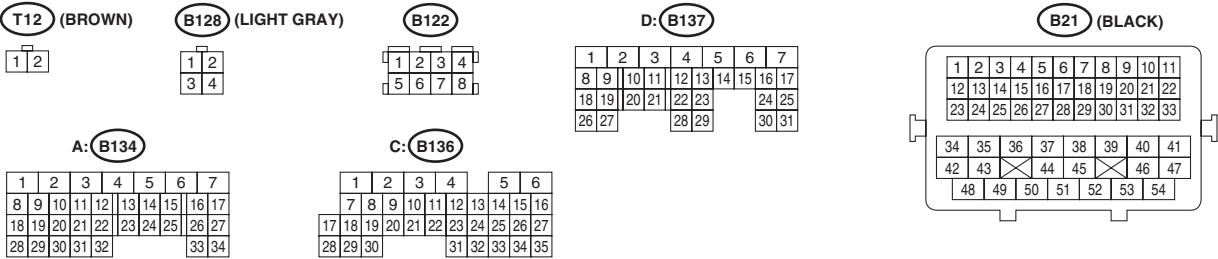
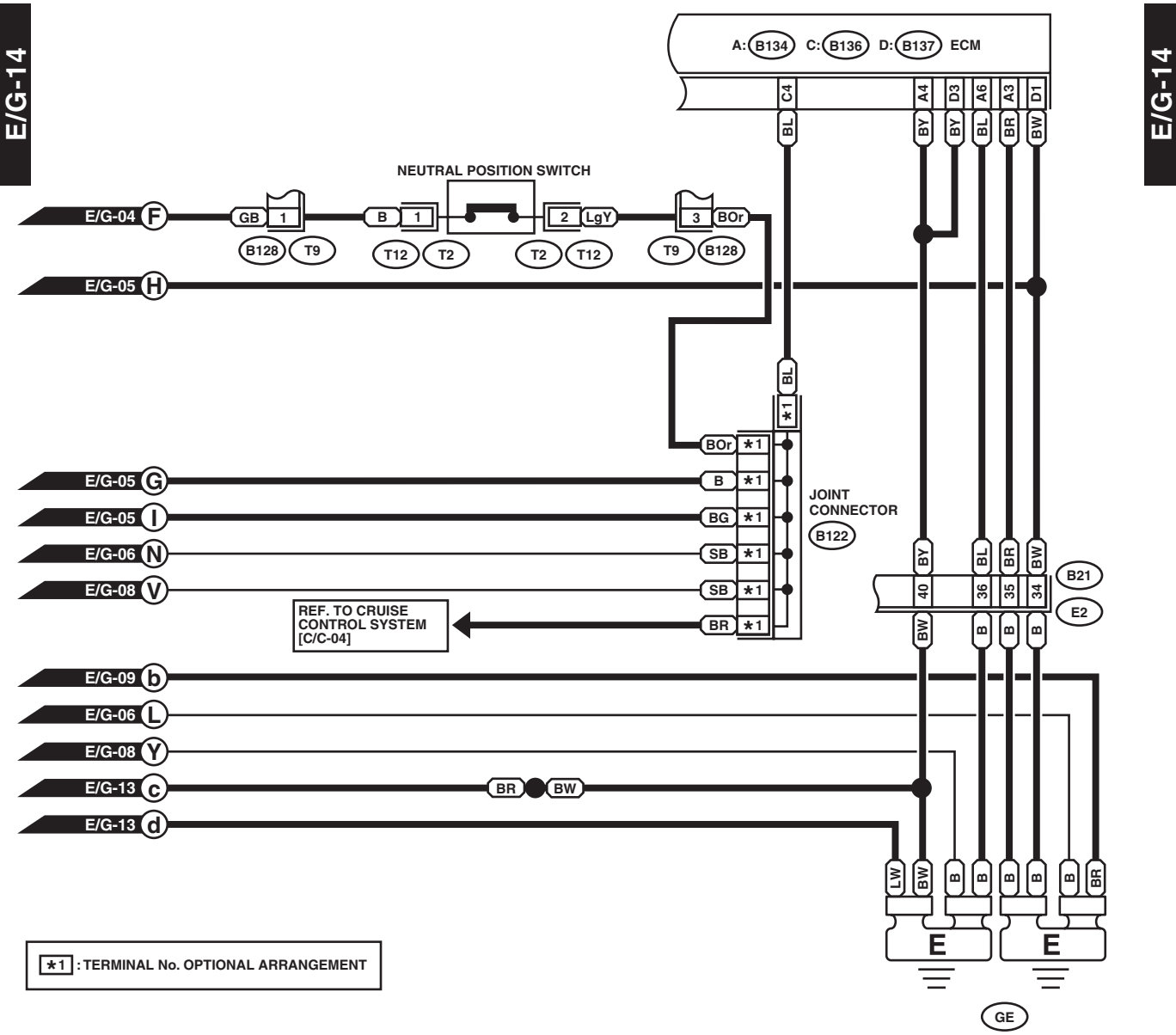
WI-33801

Engine Electrical System

WIRING SYSTEM



WI-33873

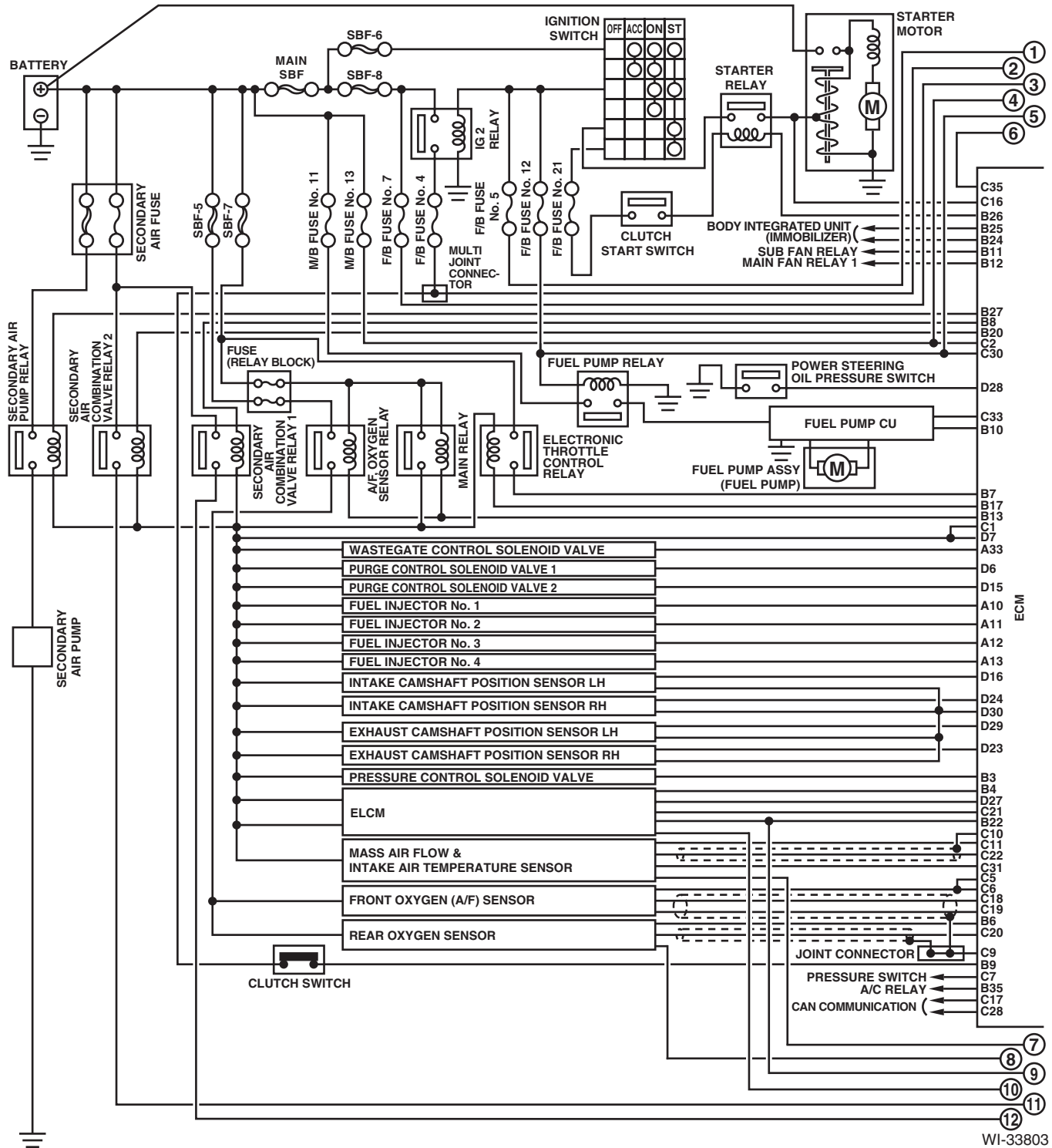


WI-33802

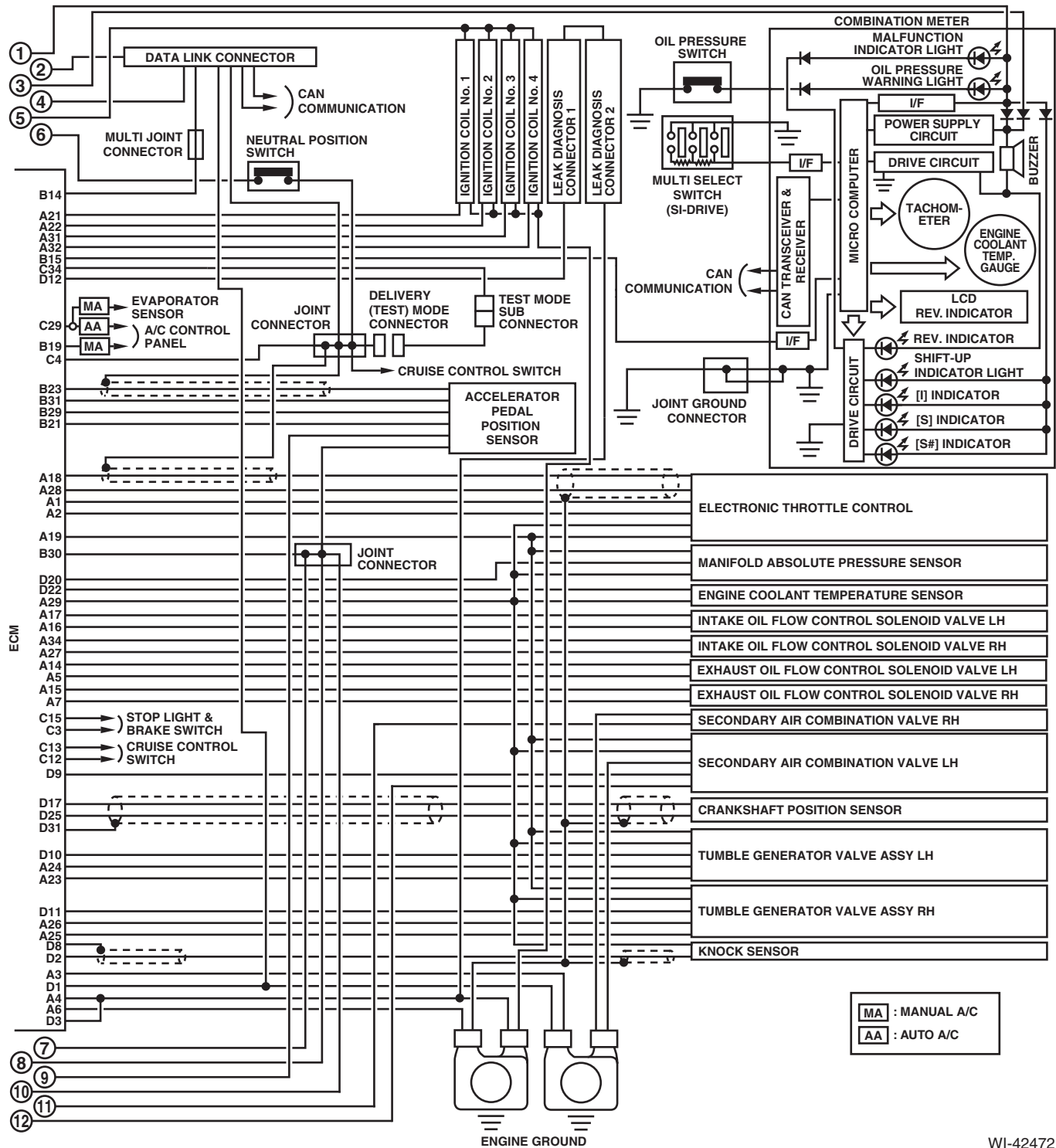
Engine Electrical System

WIRING SYSTEM

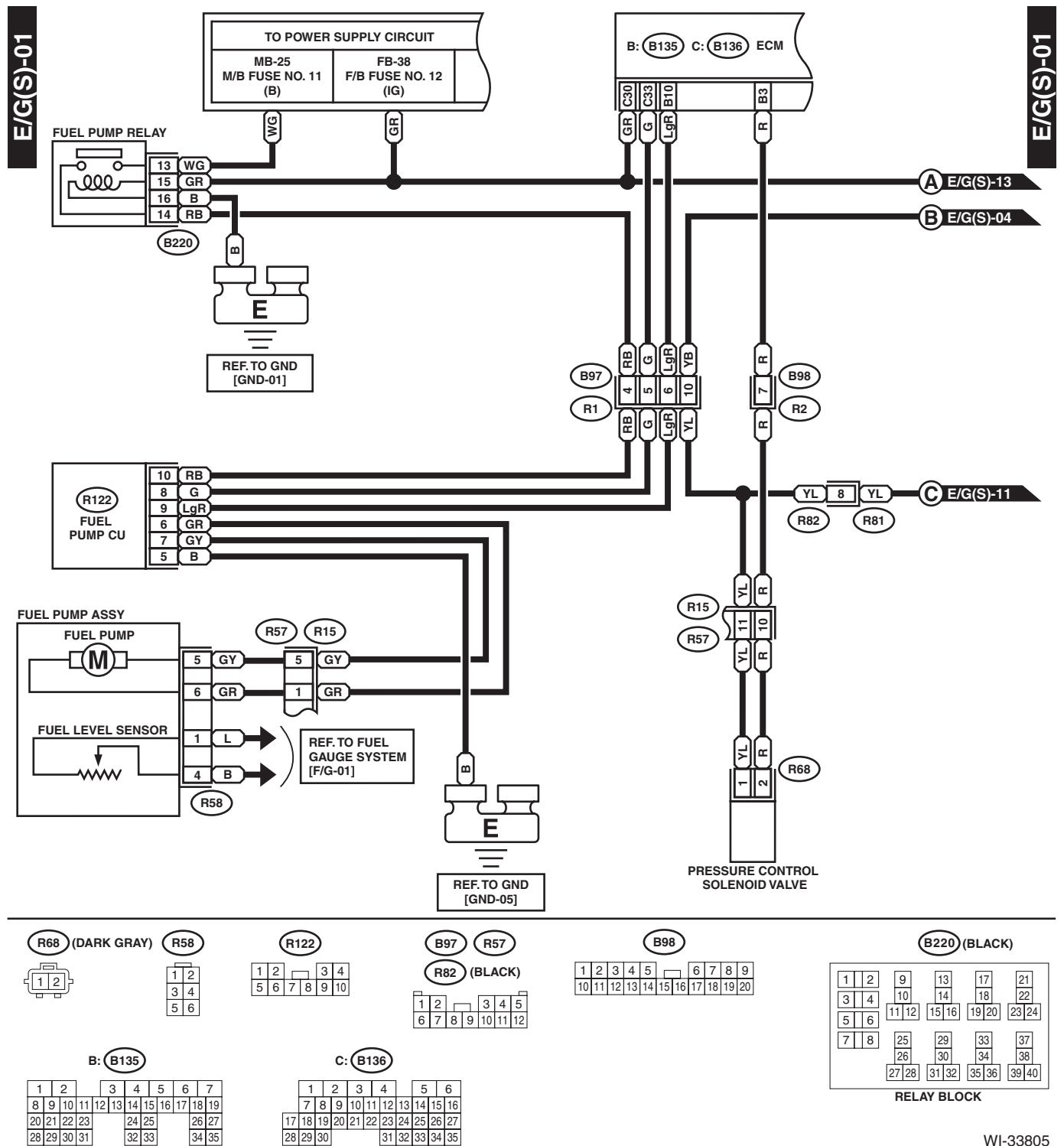
2. WITH SI-DRIVE



WI-33803



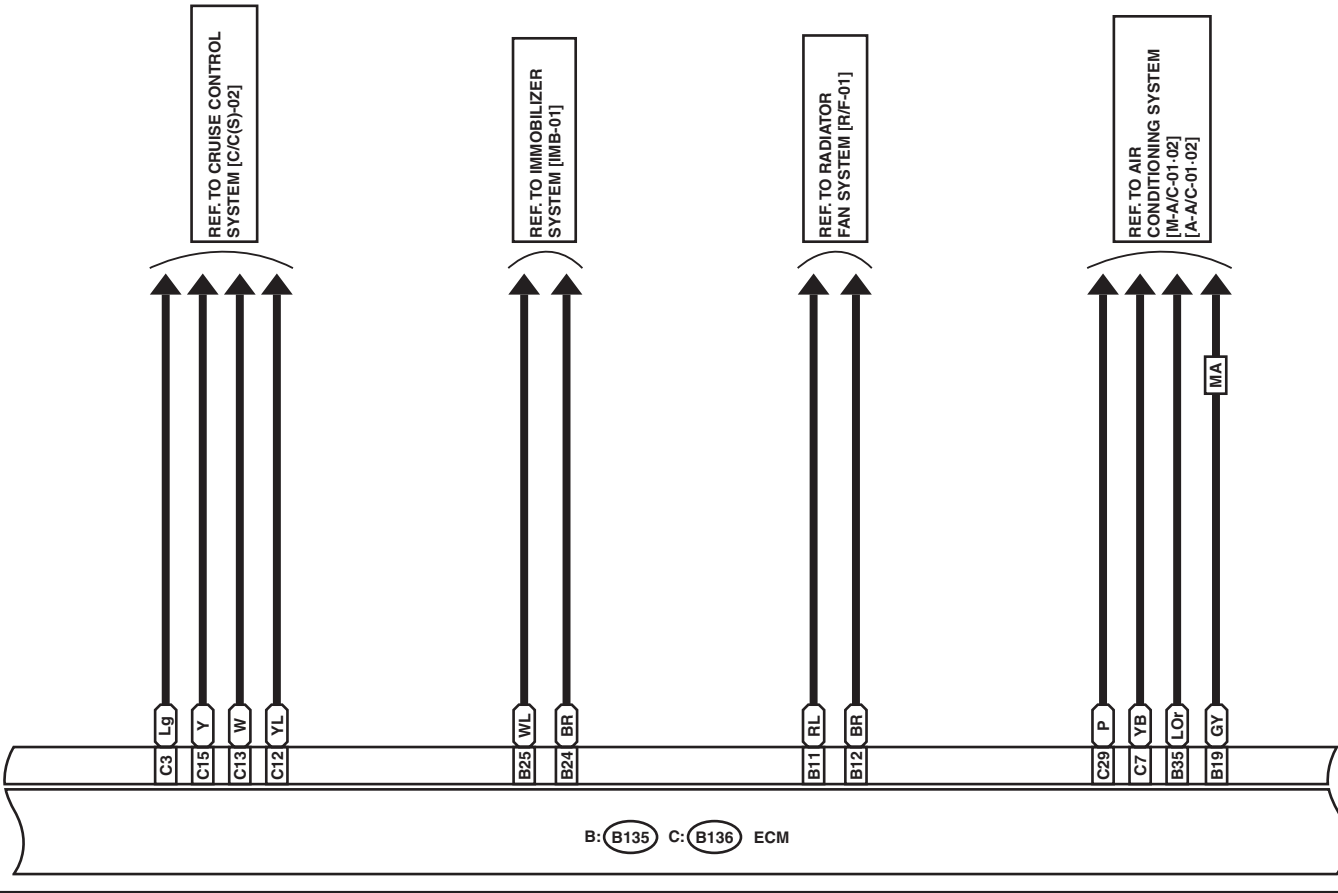
WIRING SYSTEM



E/G(S)-02

E/G(S)-02

MA : MANUAL A/C



B: B135

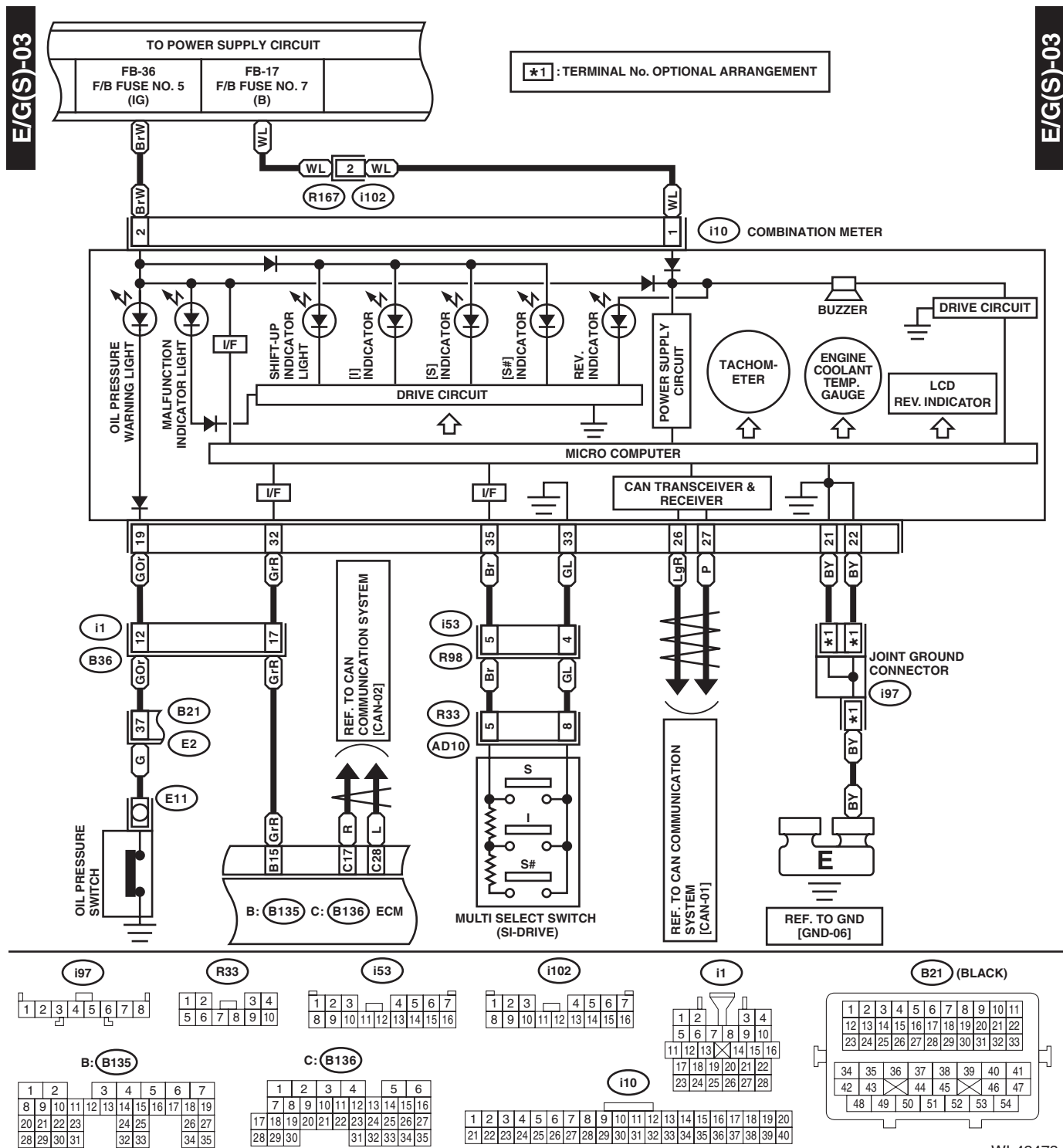
1	2		3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35				

C: B136

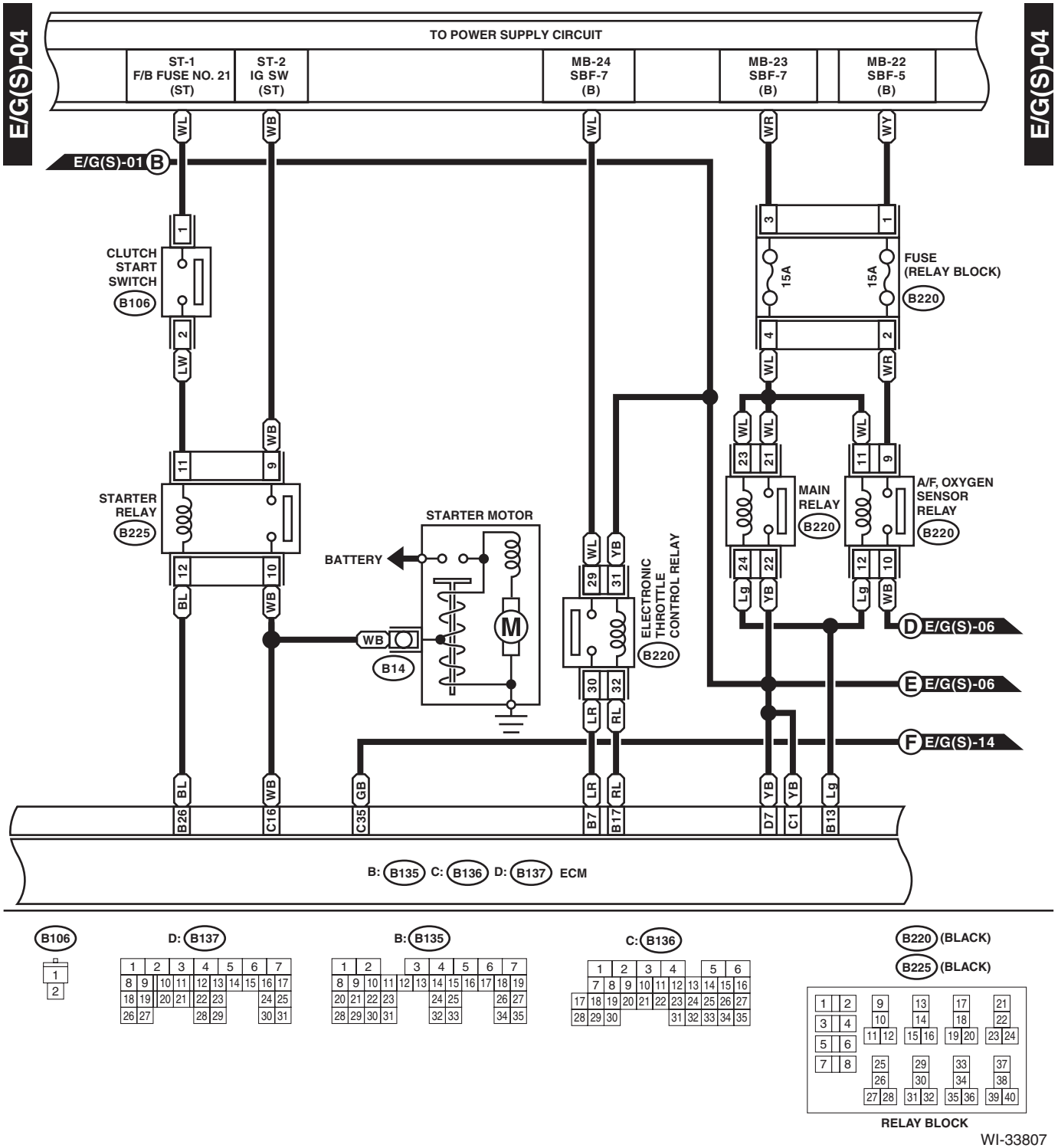
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

Engine Electrical System

WIRING SYSTEM

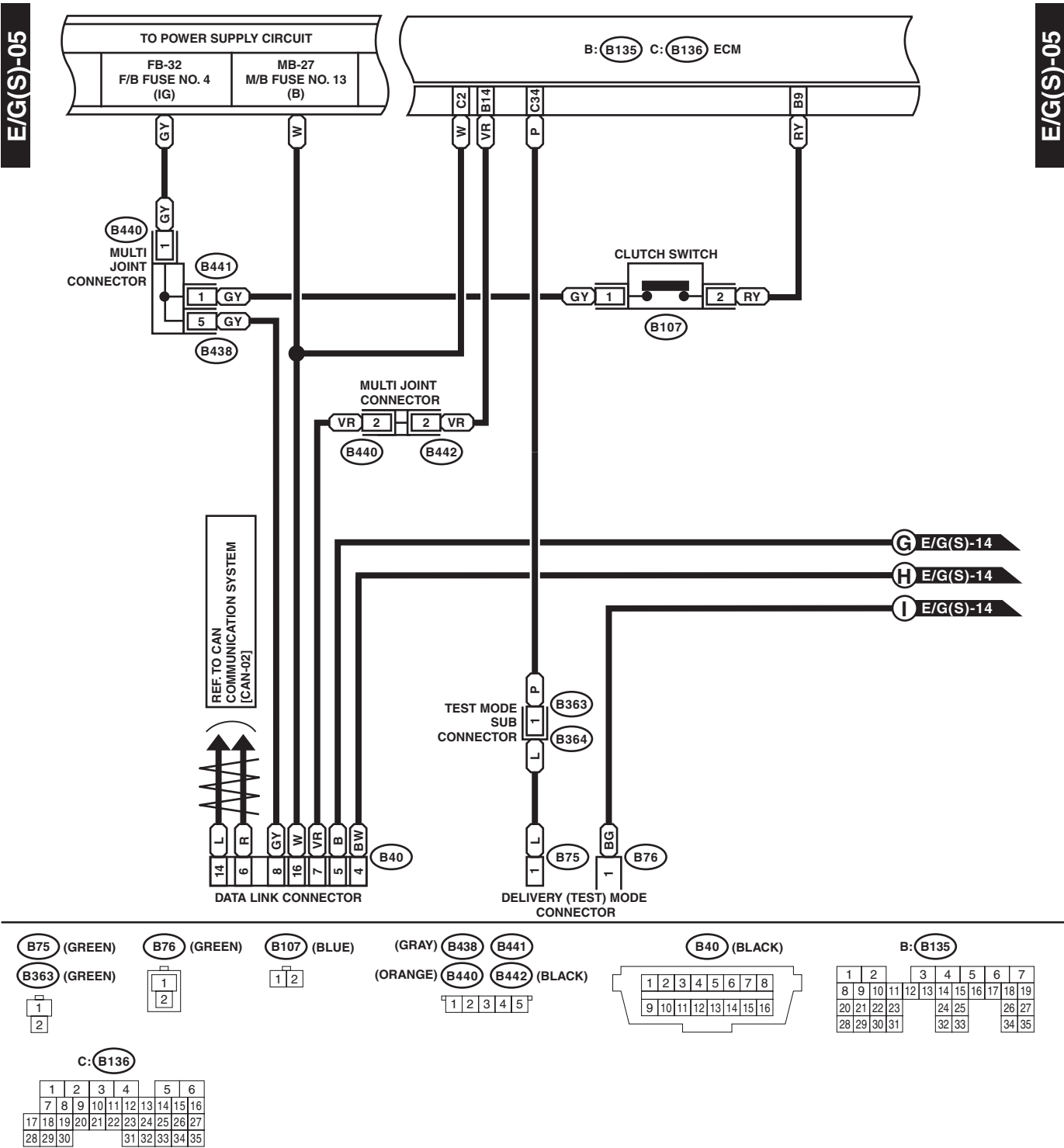


WI-42473

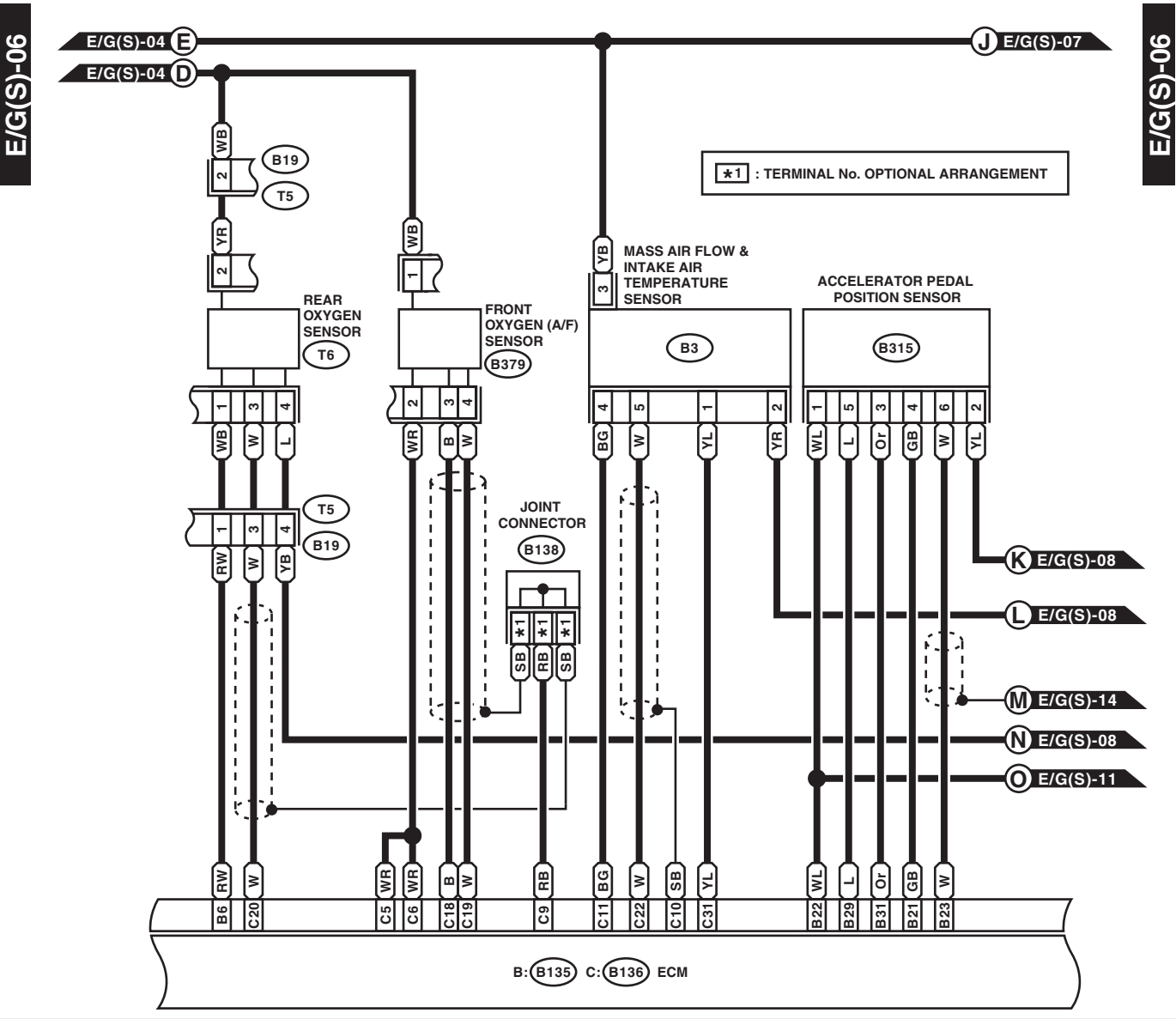


Engine Electrical System

WIRING SYSTEM



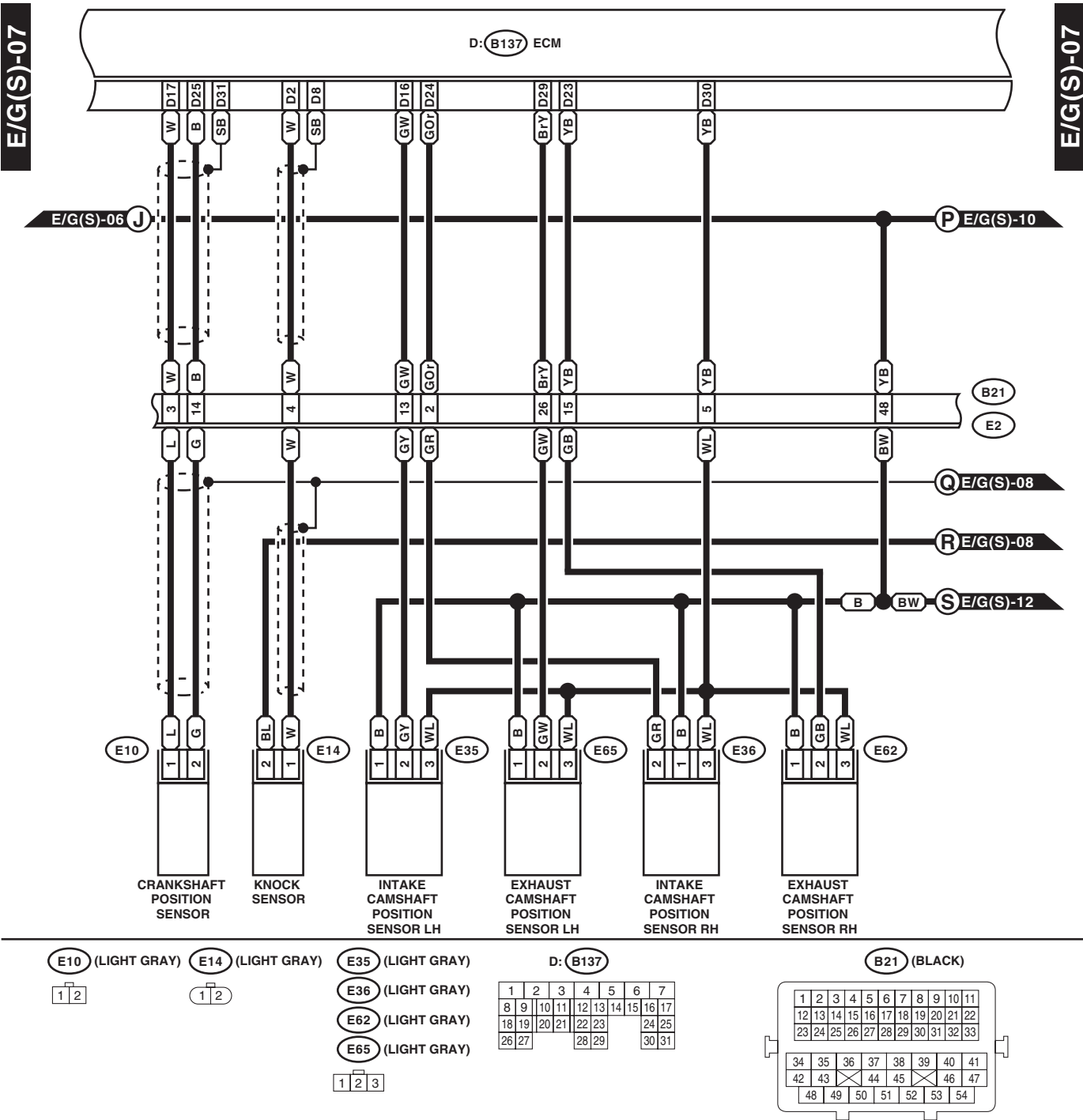
WI-33808



WI-33809

Engine Electrical System

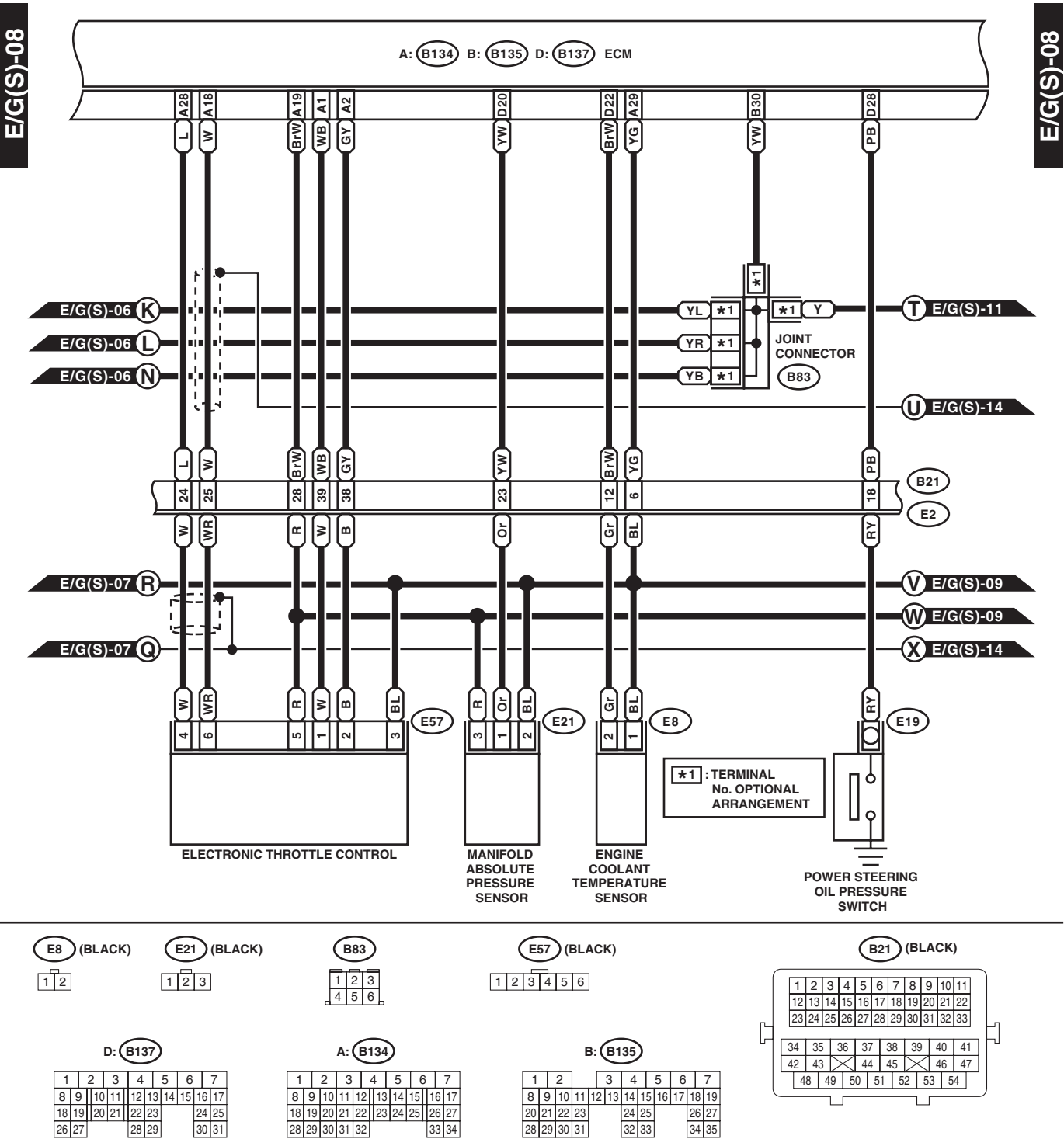
WIRING SYSTEM



WI-33810

Engine Electrical System

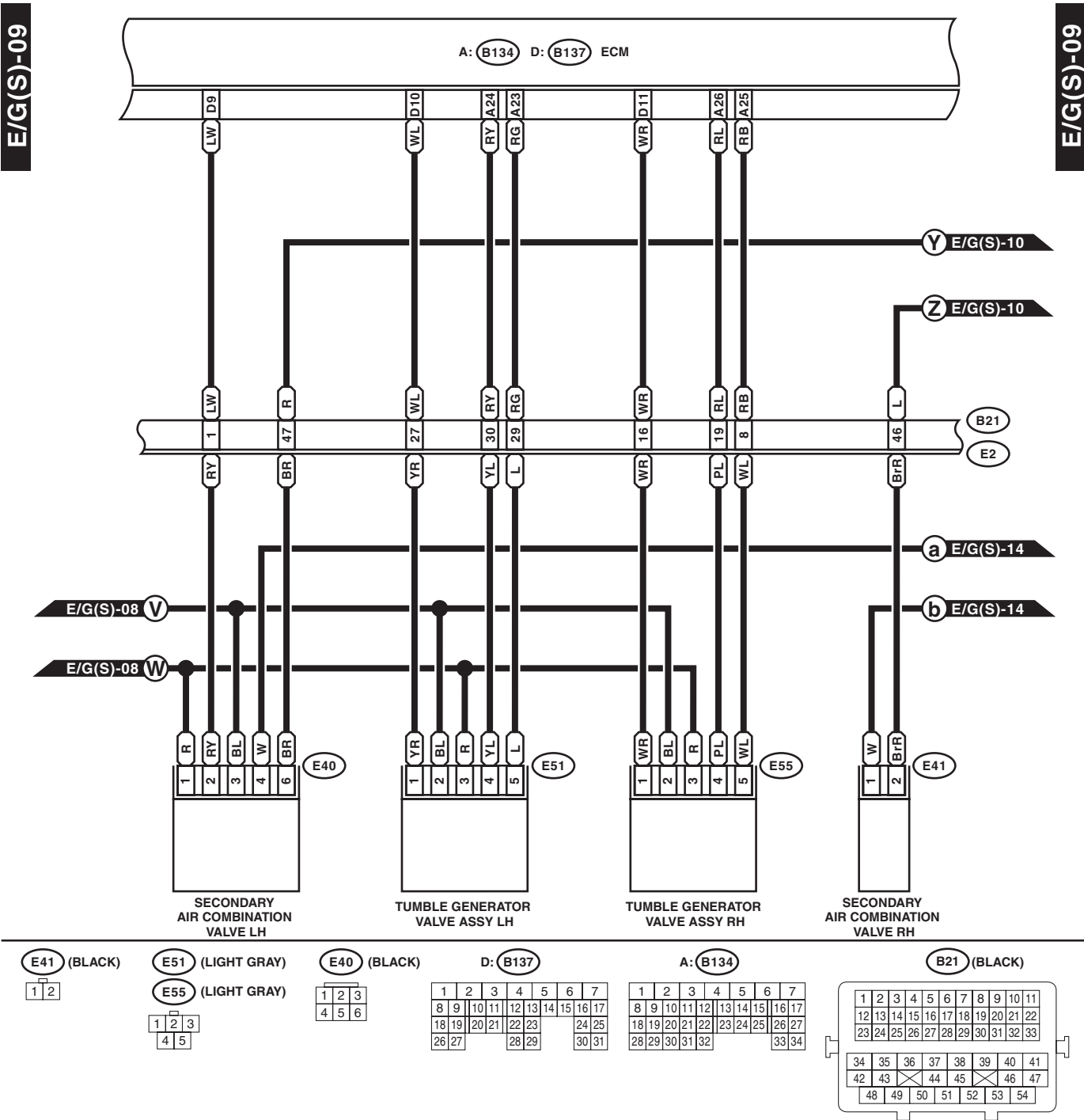
WIRING SYSTEM



WI-33811

Engine Electrical System

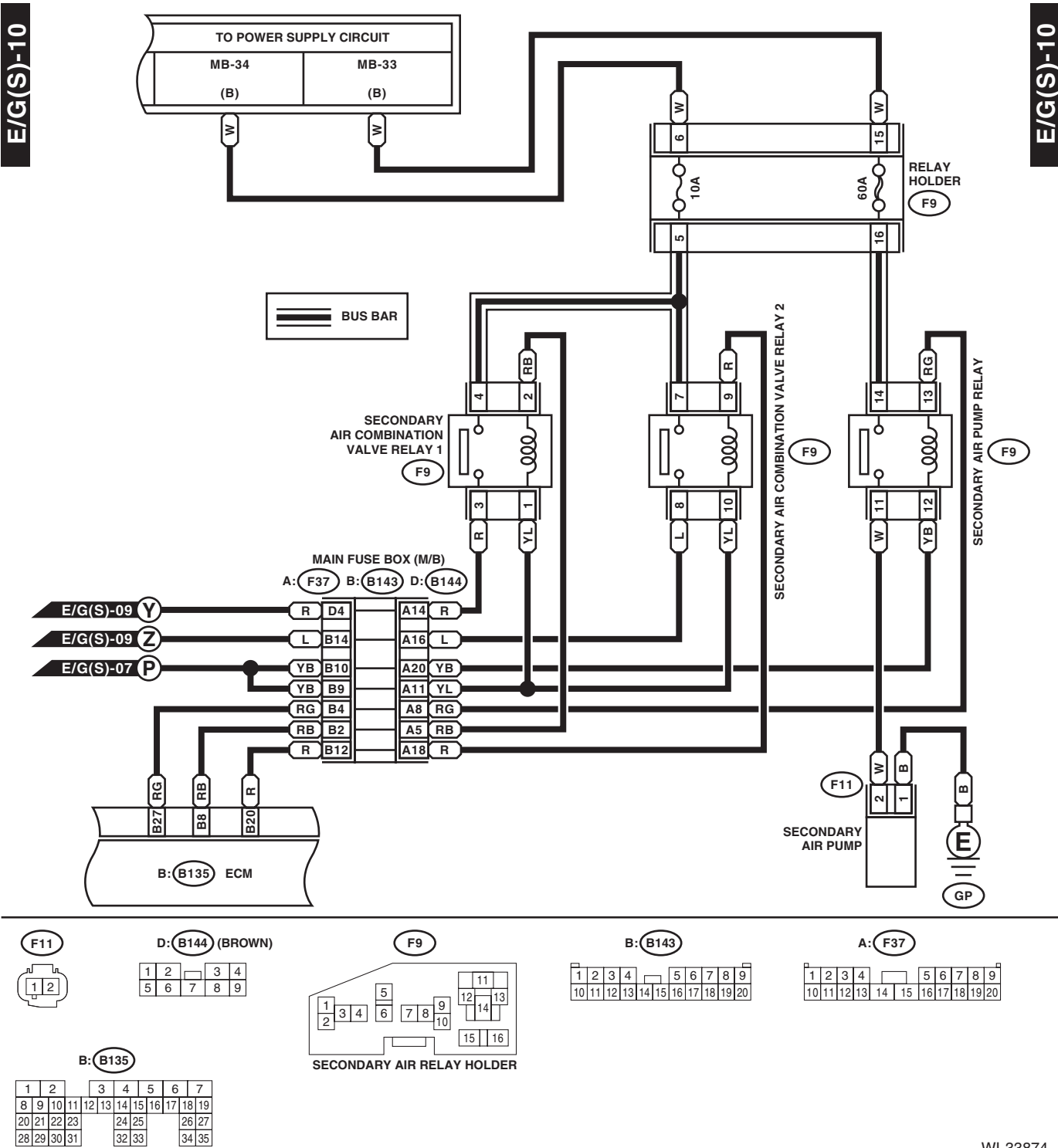
WIRING SYSTEM



WI-30412

Engine Electrical System

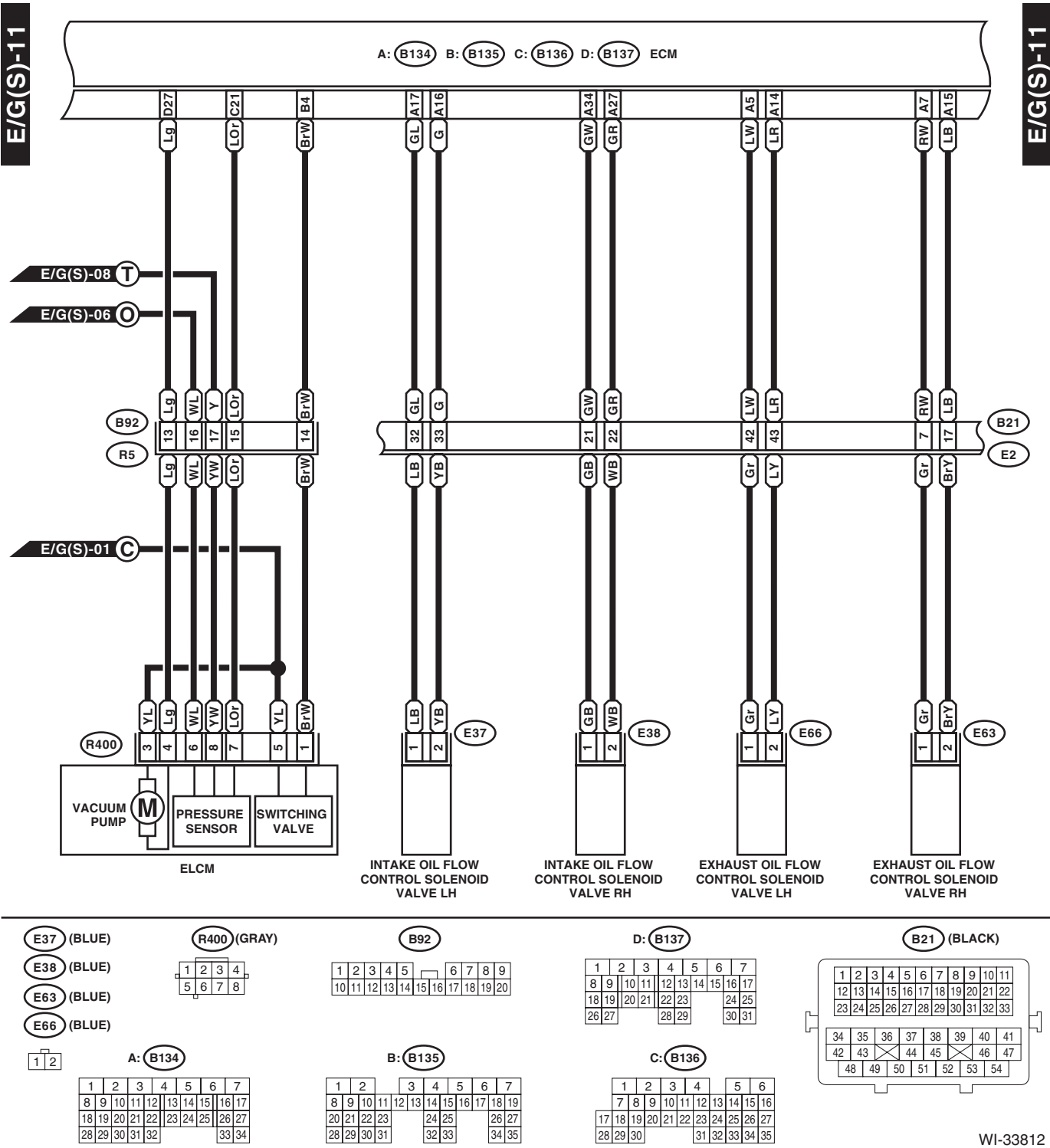
WIRING SYSTEM



WI-33874

Engine Electrical System

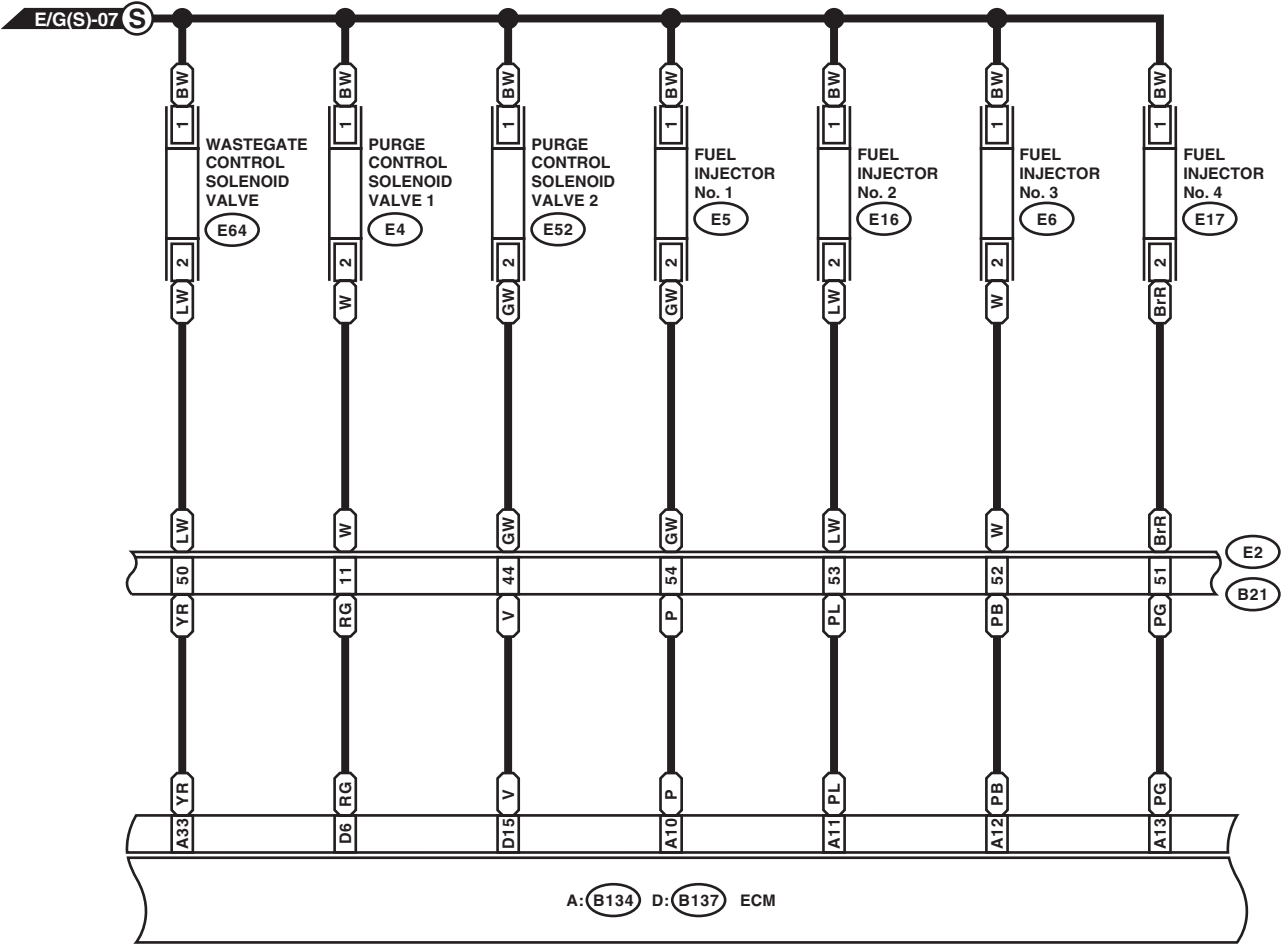
WIRING SYSTEM



WI-33812

E/G(S)-12

E/G(S)-12



E4 (BLACK)

E52 (BLACK)

E64 (BLUE)

1 2

E5 (DARK GRAY)

E6 (DARK GRAY)

E16 (DARK GRAY)

E17 (DARK GRAY)

1 2

D: B137

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

A: B134

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

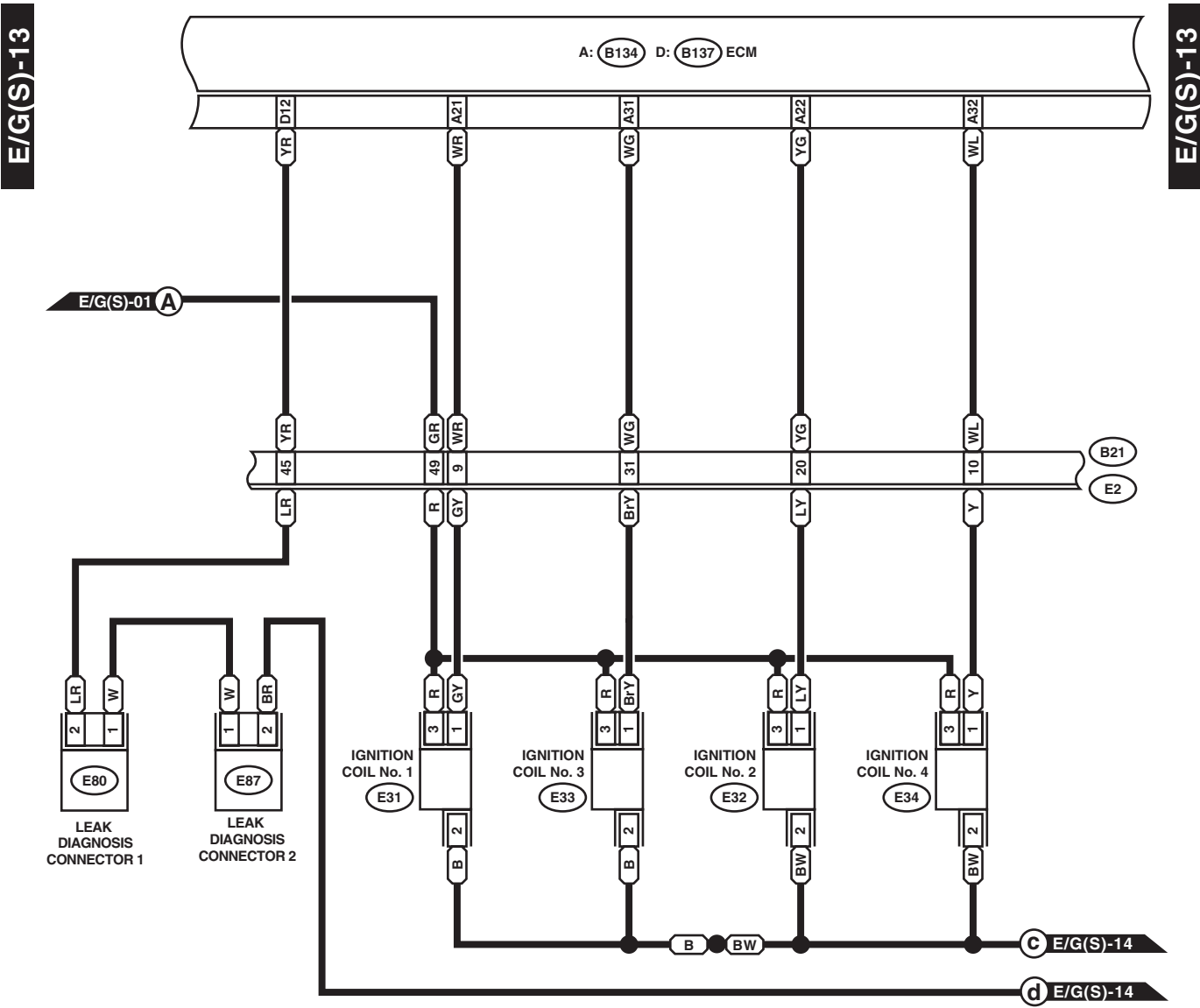
B21 (BLACK)

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	

WI-33813

Engine Electrical System

WIRING SYSTEM



E80 (DARK GRAY)

(GRAY) E31 E33 (GRAY)

D: B137

A: B134

B21 (BLACK)

E87 (DARK GRAY)

(GRAY) E32 E34 (GRAY)

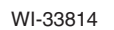
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
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45	46	47	48	49	50	51	52	53	54	55

WI-33875

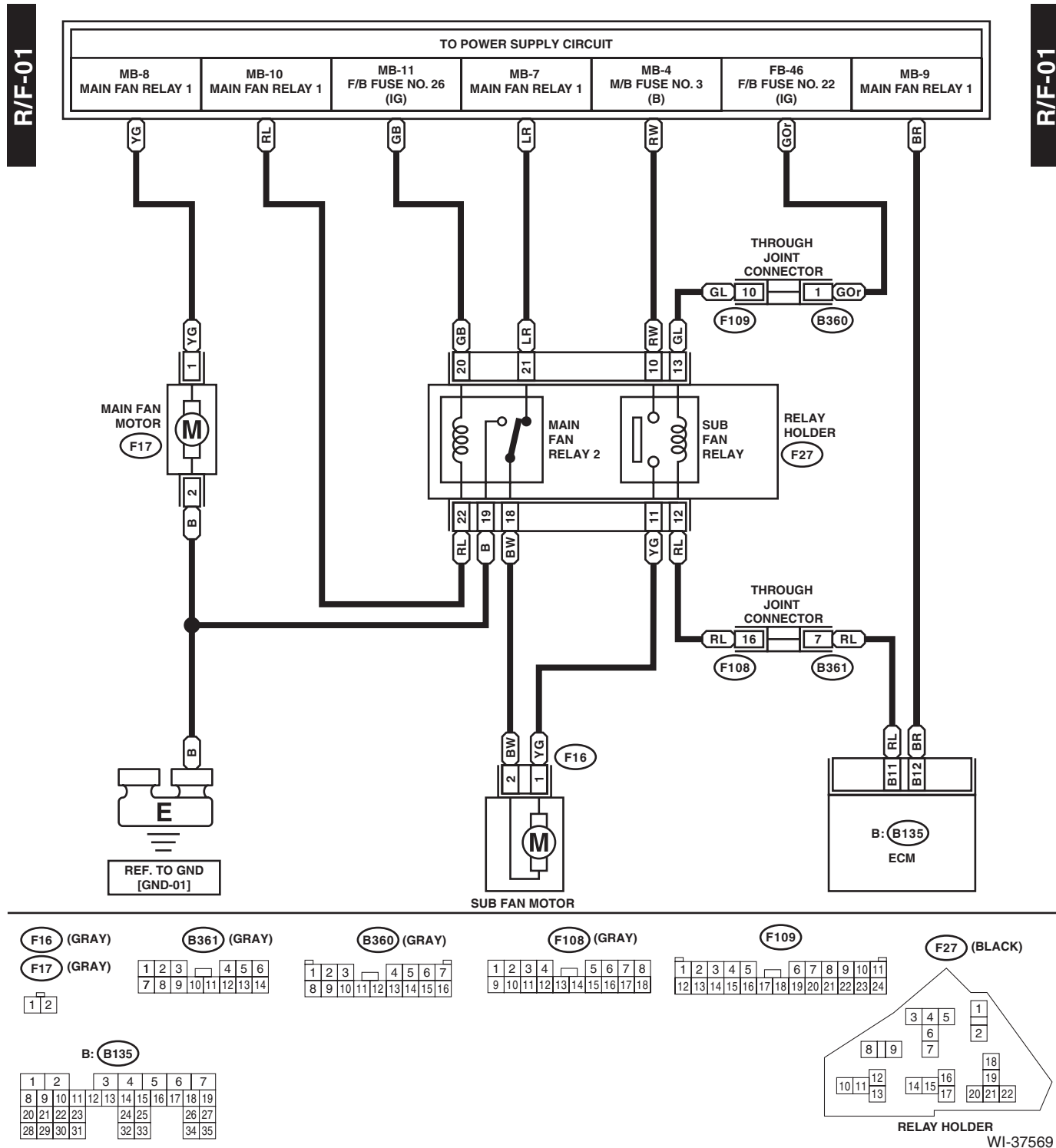
WIRING SYSTEM



WIRING SYSTEM

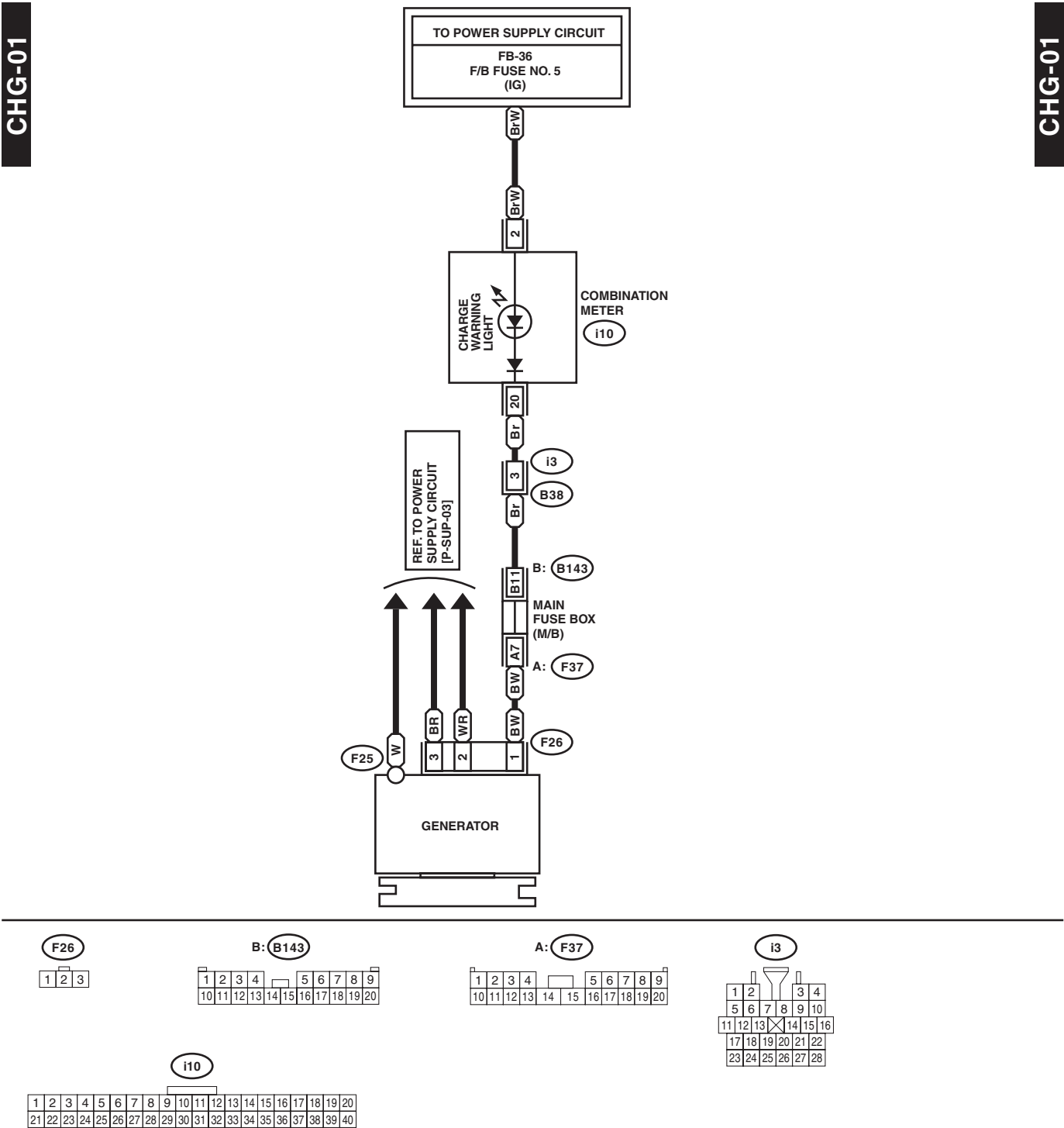
6. Radiator Fan System

A: WIRING DIAGRAM



7. Charging System

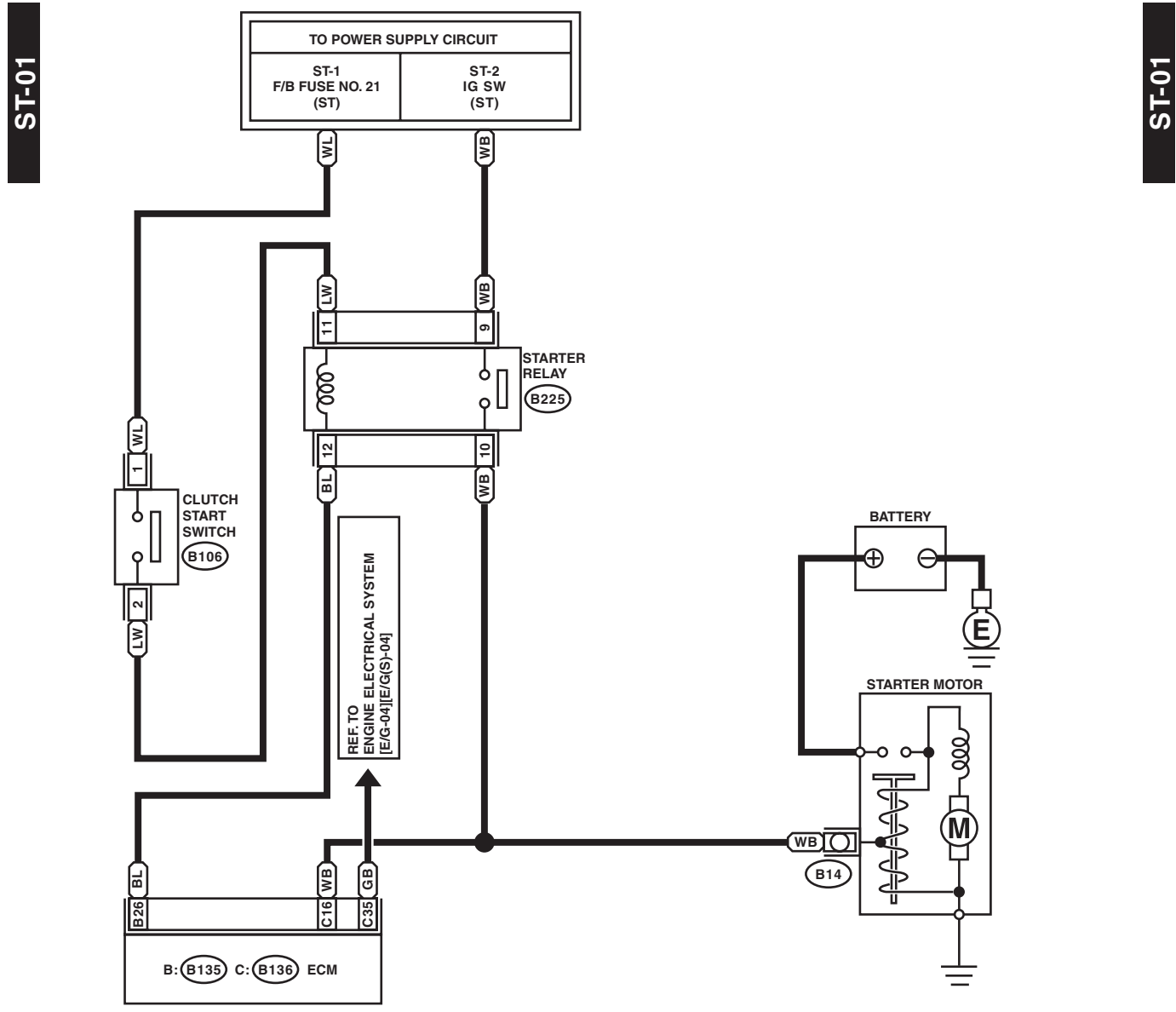
A: WIRING DIAGRAM



Starter System

WIRING SYSTEM

8. Starter System A: WIRING DIAGRAM



(B106)

1
2

B: (B135)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

C: (B136)

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

(B225) (BLACK)

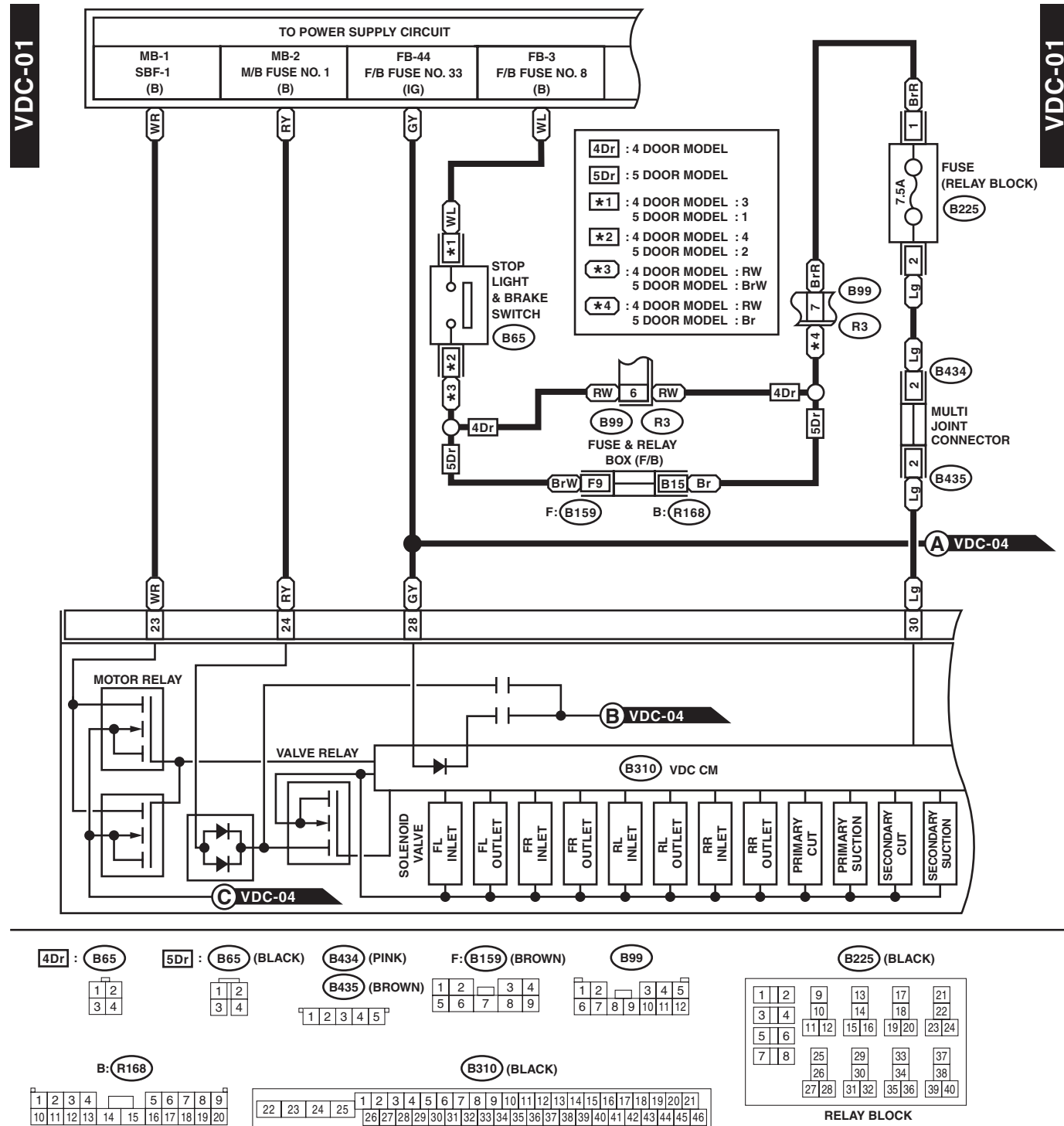
1	2	9	13	17	21
3	4	10	14	18	22
5	6	11	12	15	16
7	8	19	20	23	24
25	29	33	37		
26	30	34	38		
27	28	31	32	35	36
39	40				

RELAY BLOCK

WI-33815

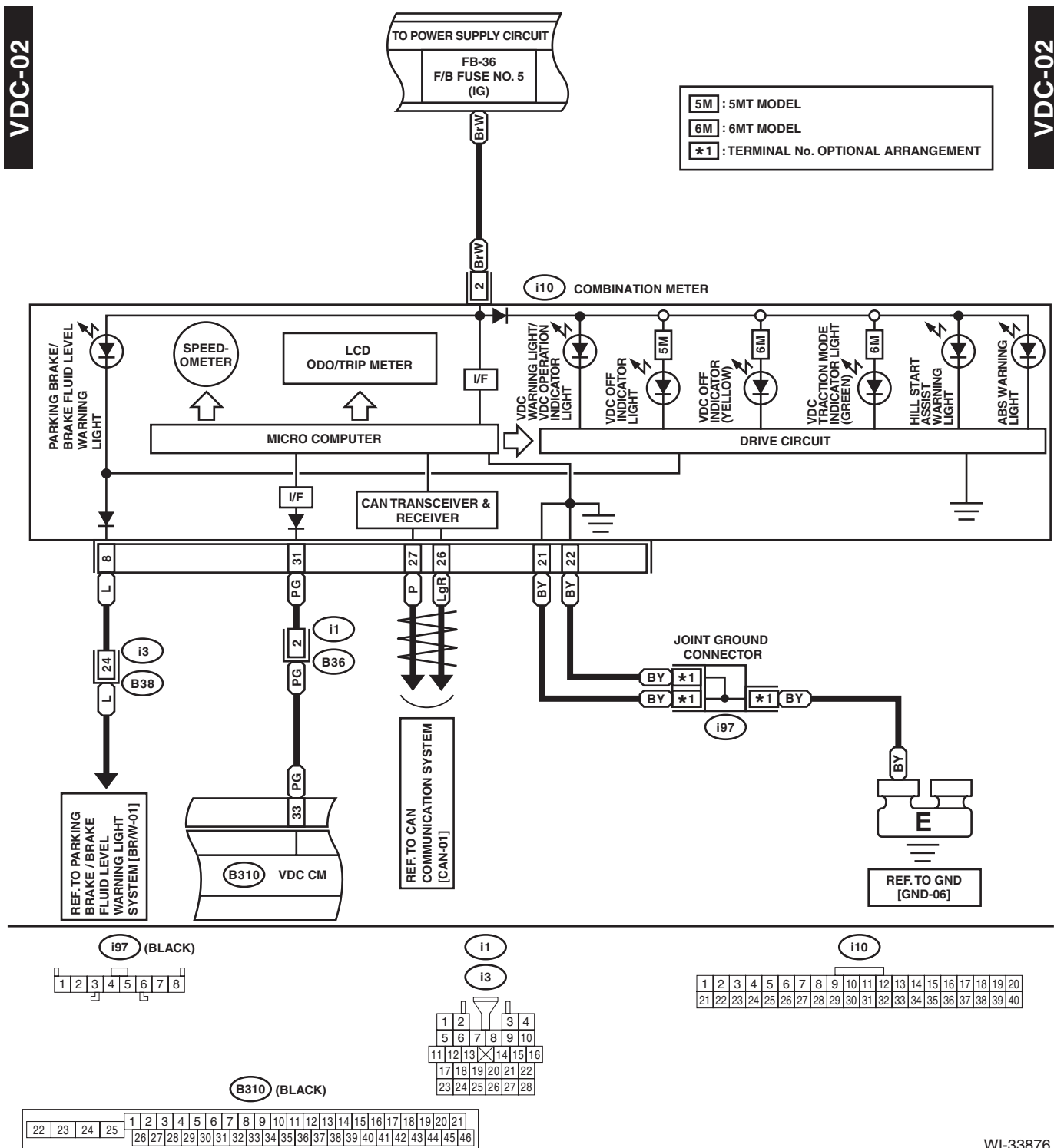
9. Vehicle Dynamics Control System

A: WIRING DIAGRAM



Vehicle Dynamics Control System

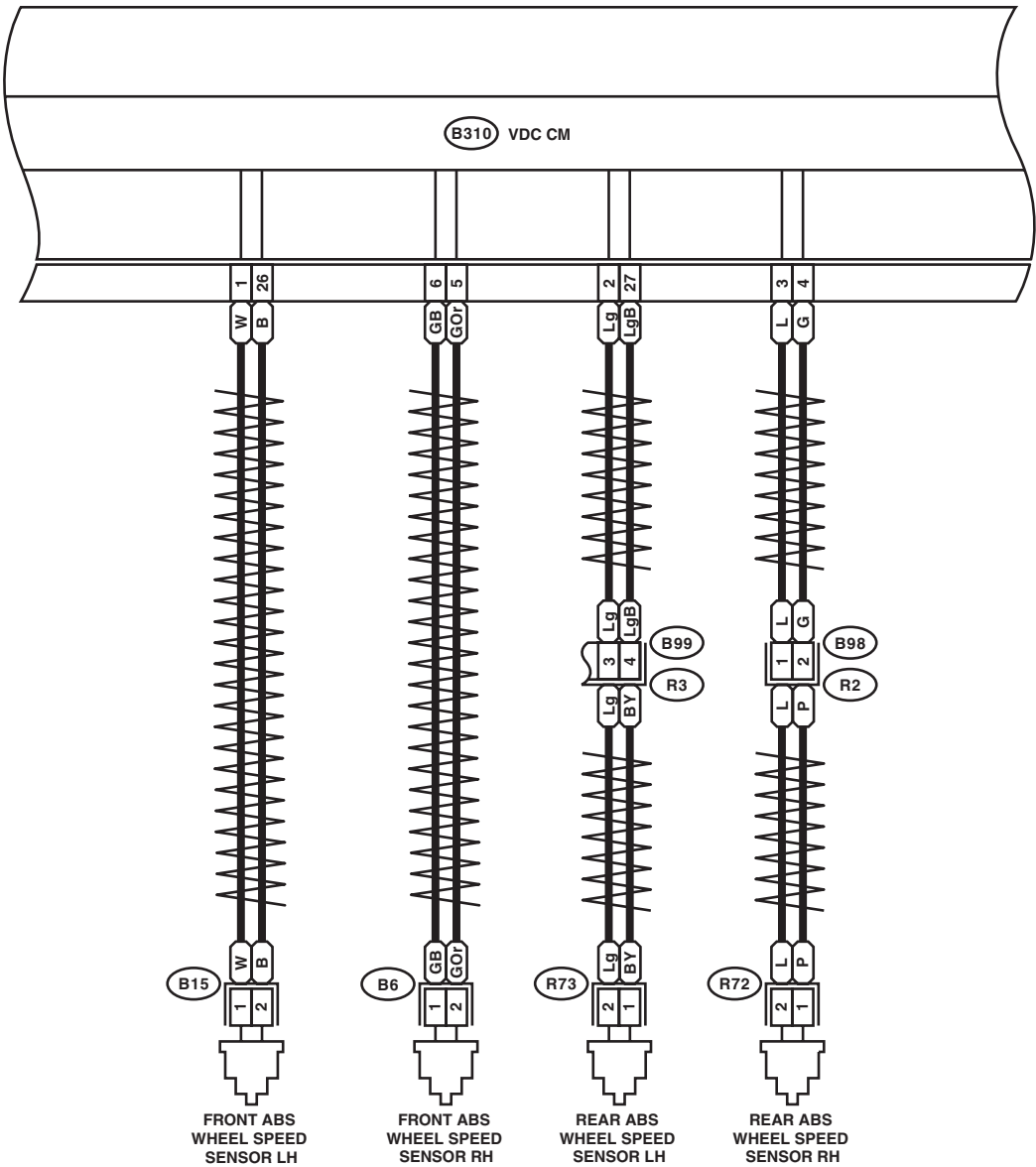
WIRING SYSTEM



WI-33876

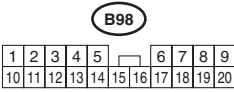
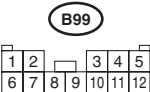
VDC-03

VDC-03

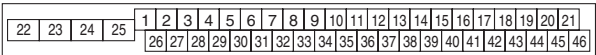


(LIGHT GRAY) B6 R72 (LIGHT GRAY)

(LIGHT GRAY) B15 R73 (LIGHT GRAY)



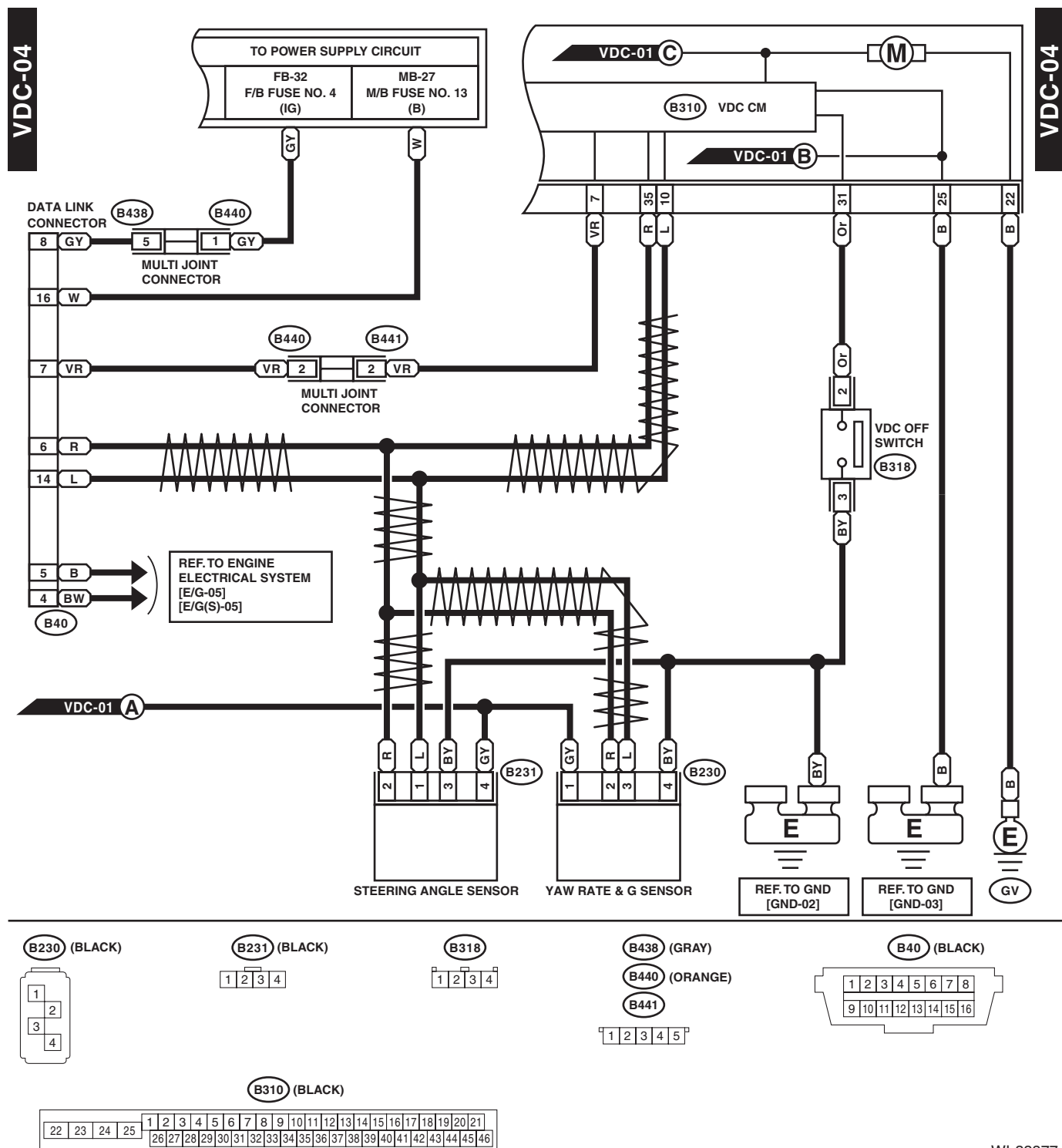
B310 (BLACK)



WI-31691

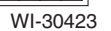
Vehicle Dynamics Control System

WIRING SYSTEM



WI-33877

A: WIRING DIAGRAM

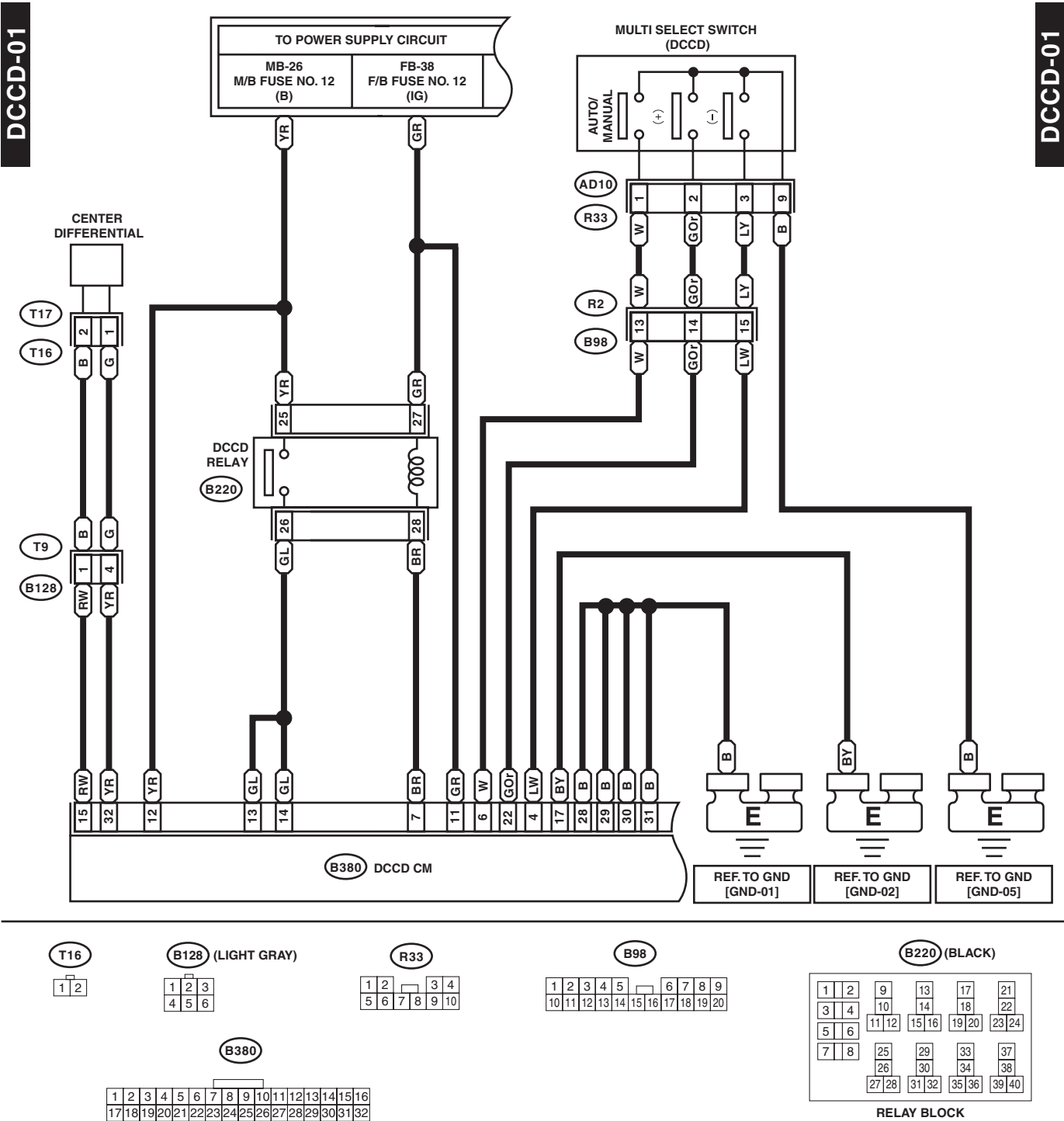


Driver's Control Center Differential Control System

WIRING SYSTEM

11.Driver's Control Center Differential Control System

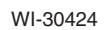
A: WIRING DIAGRAM



WI-38519

WIRING SYSTEM

DCCD-02

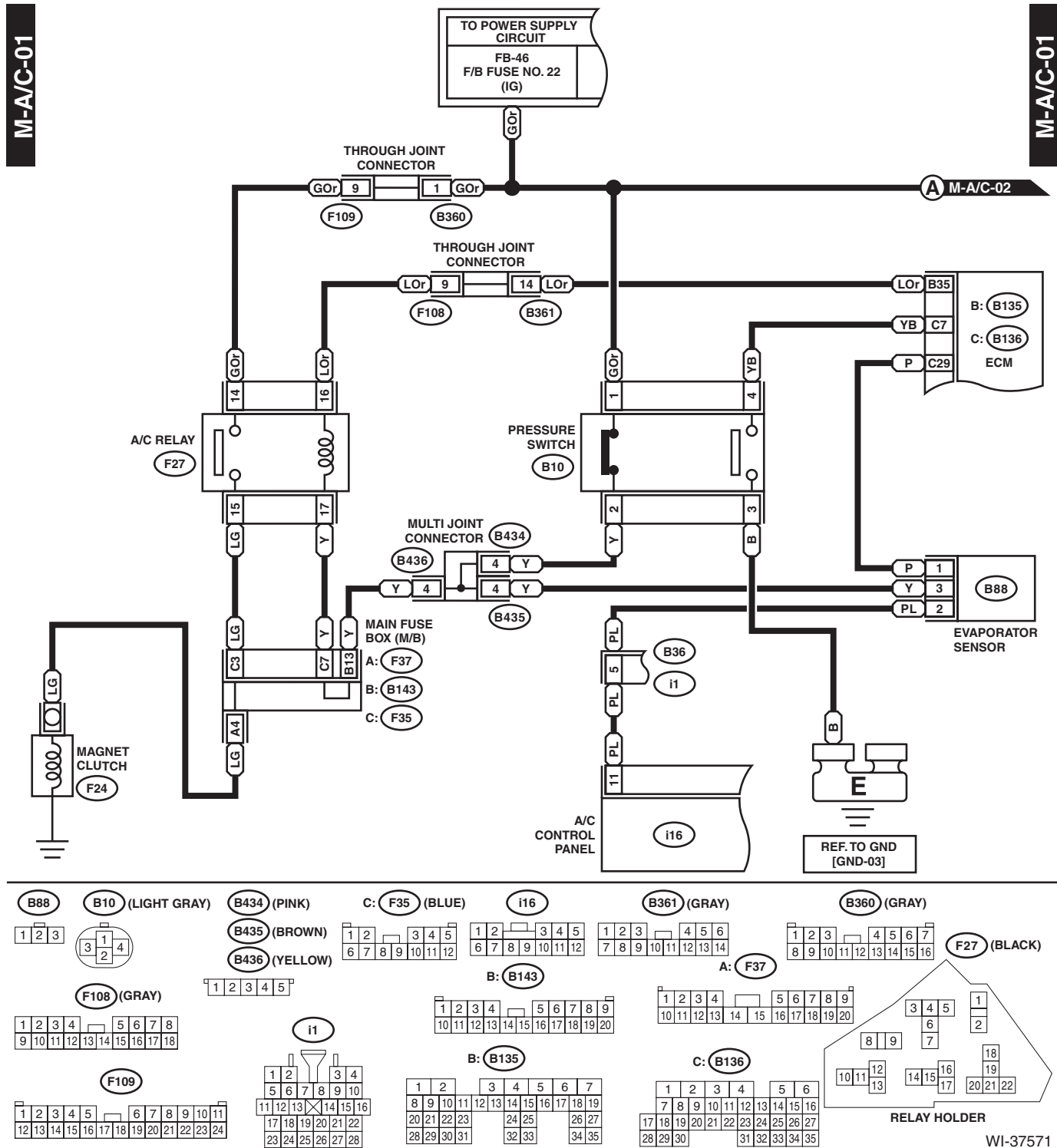


WIRING SYSTEM

12. Air Conditioning System

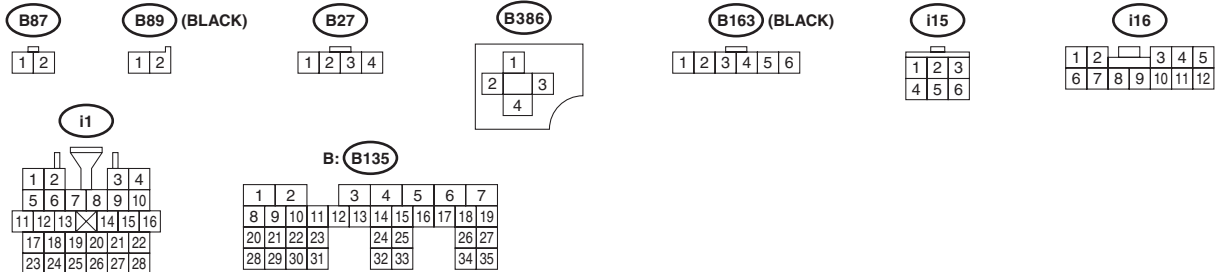
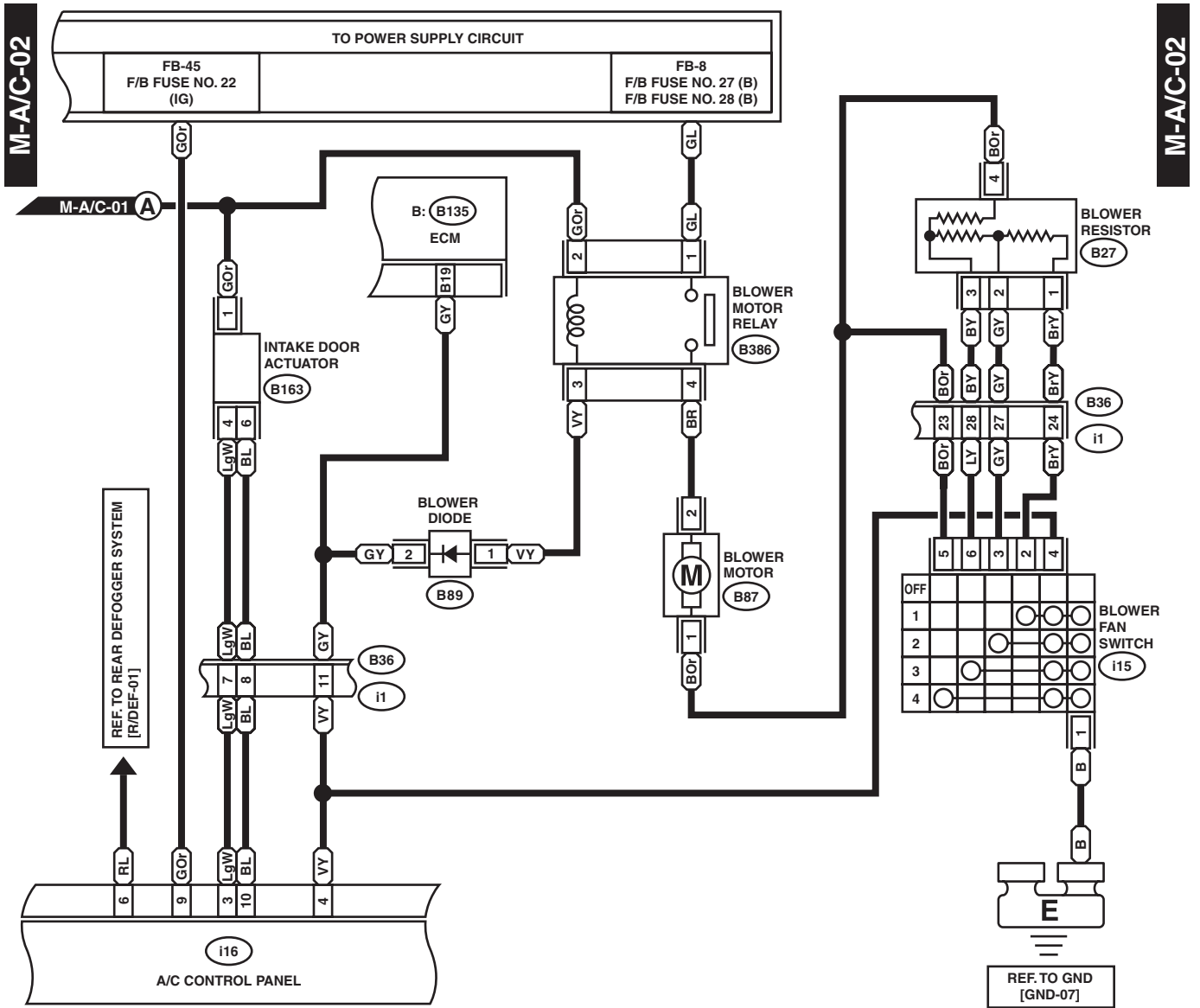
A: WIRING DIAGRAM

1. MANUAL A/C MODEL



Air Conditioning System

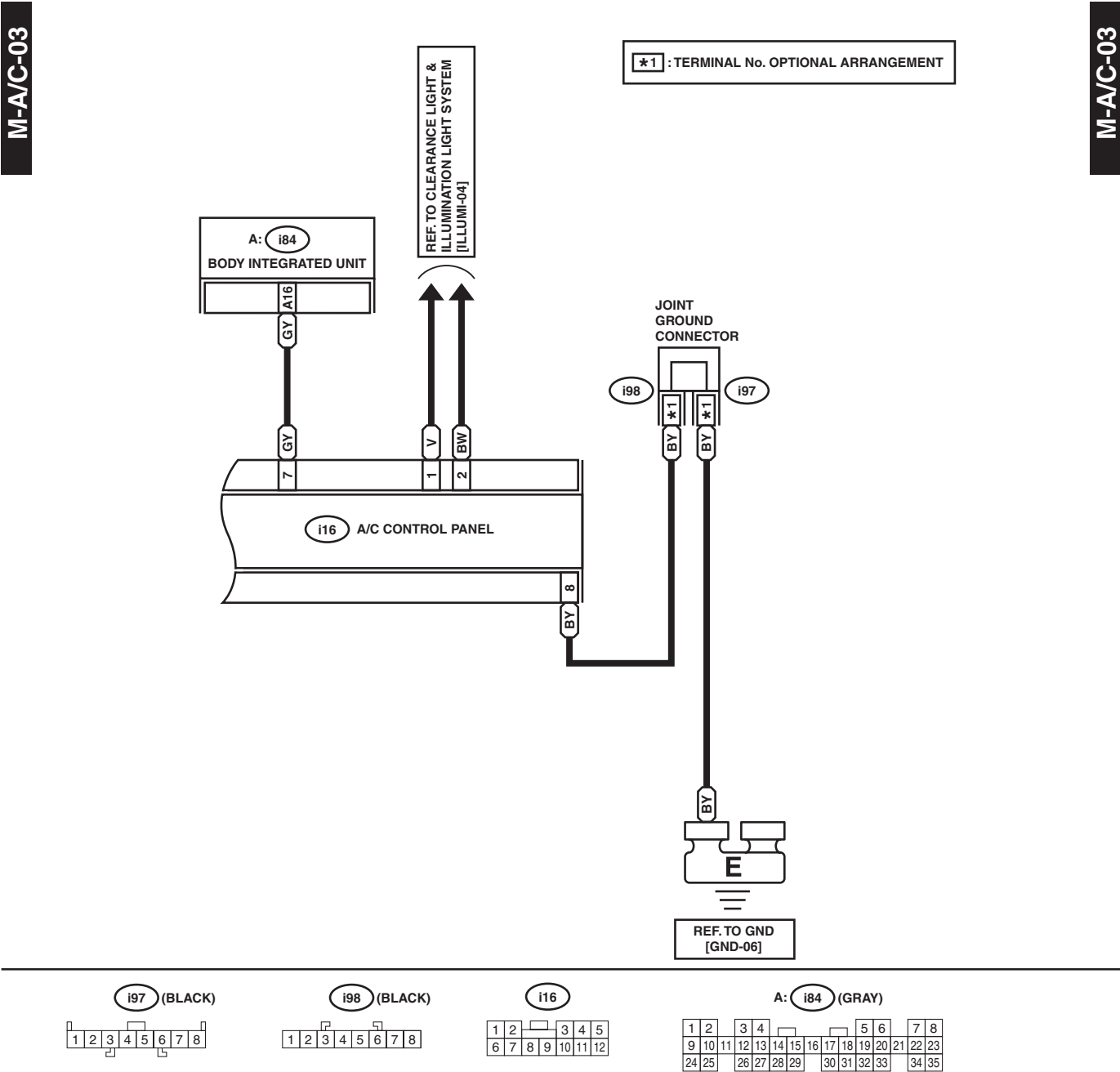
WIRING SYSTEM



WI-37572

Air Conditioning System

WIRING SYSTEM

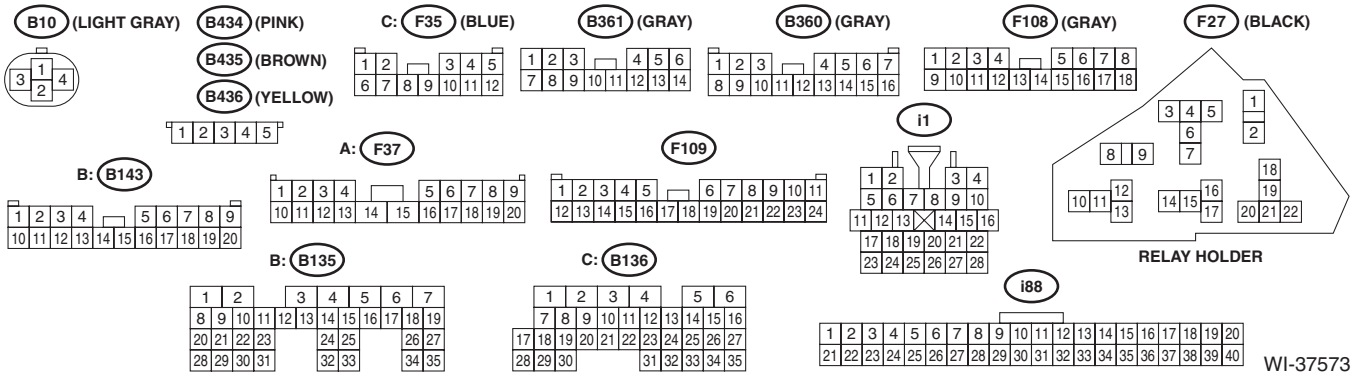
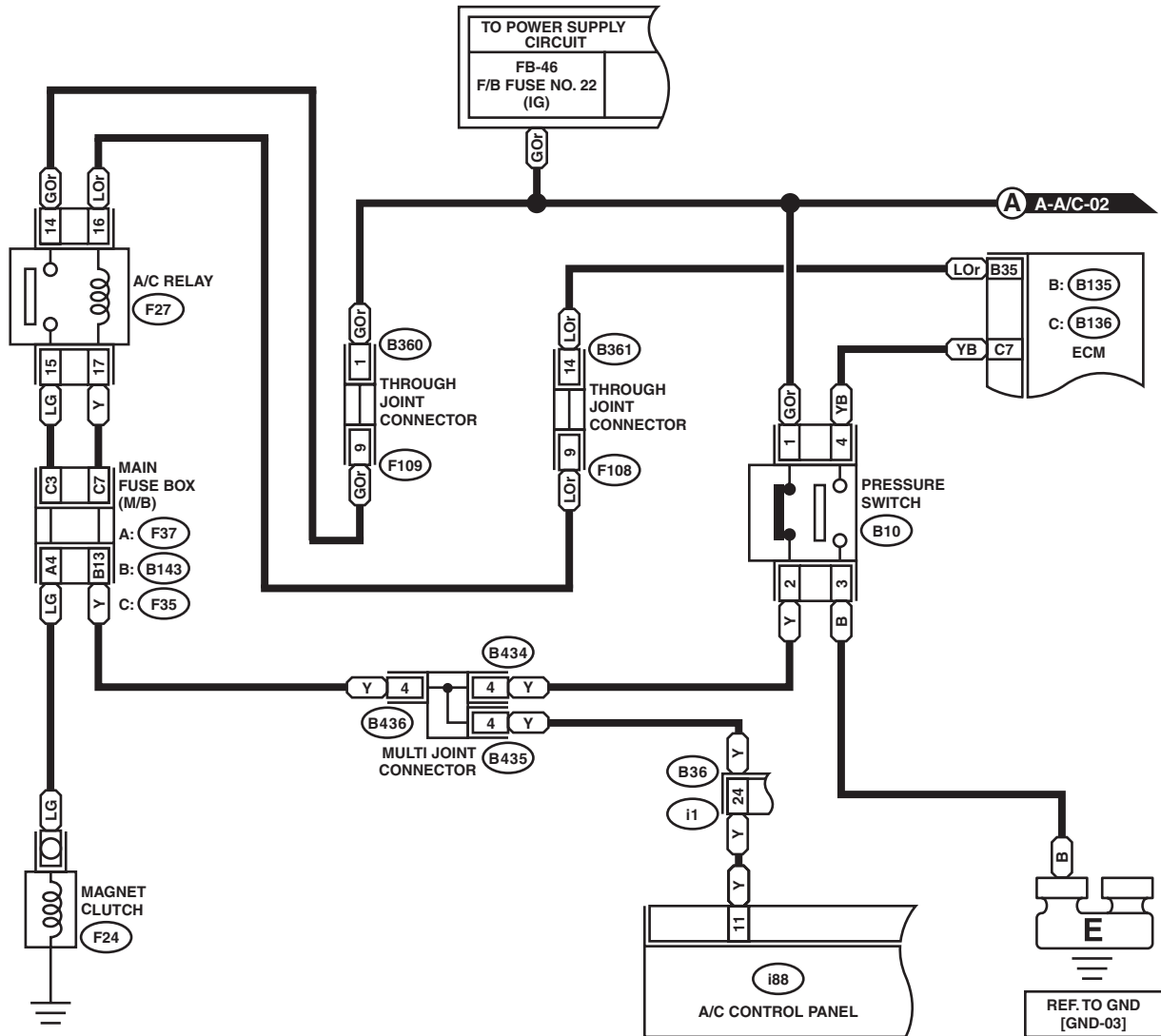


WI-21426

2. AUTO A/C MODEL

A-A/C-01

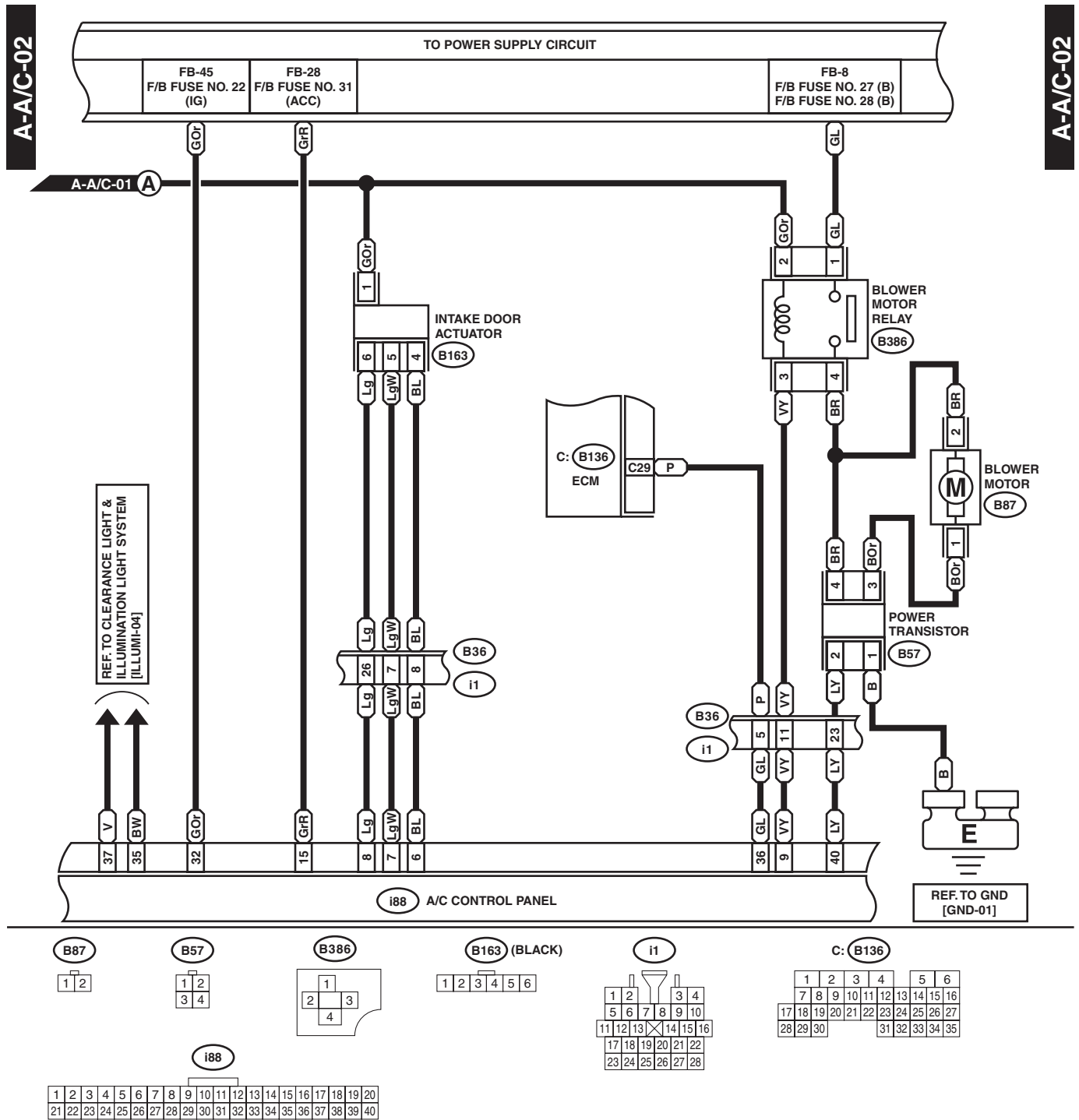
A-A/C-01



WI-37573

Air Conditioning System

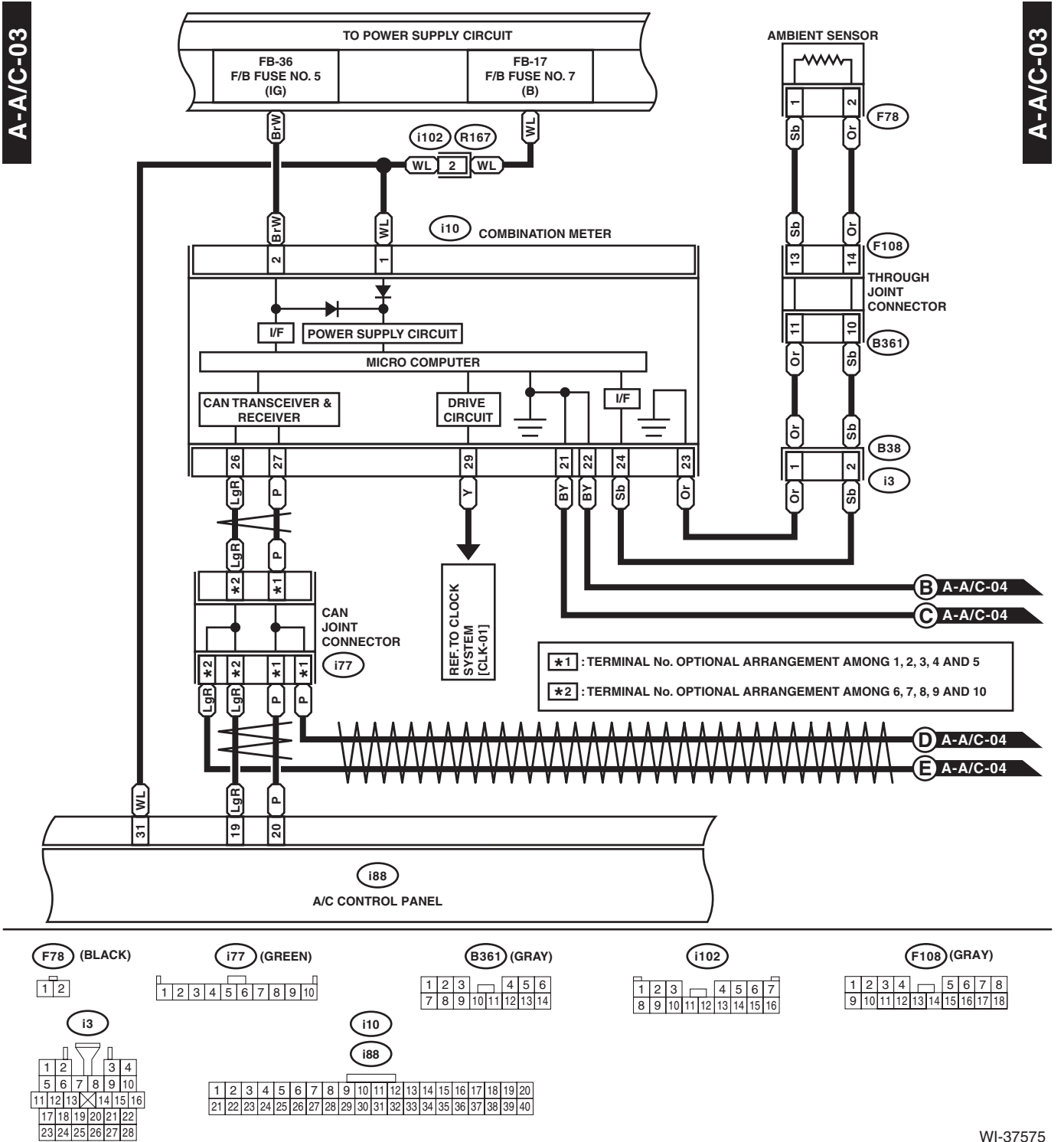
WIRING SYSTEM



WI-37574

Air Conditioning System

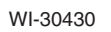
WIRING SYSTEM



WI-37575

WIRING SYSTEM

A-A/C-04

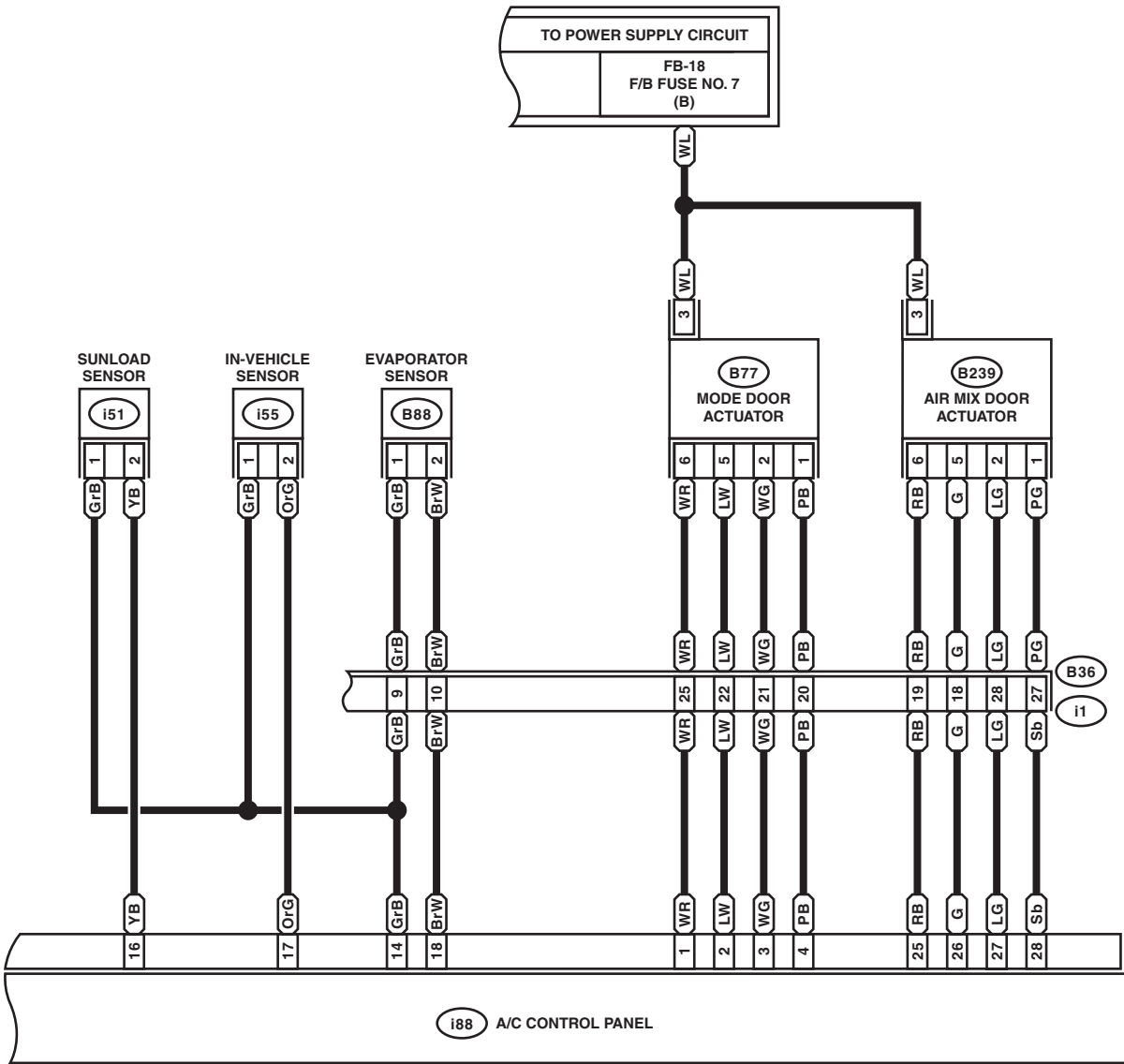


Air Conditioning System

WIRING SYSTEM

A-A/C-05

A-A/C-05



B88 (BROWN)

i51

i55

1 2

B77

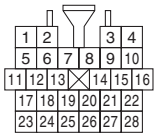
B239

1 2

3 4

5 6

i1



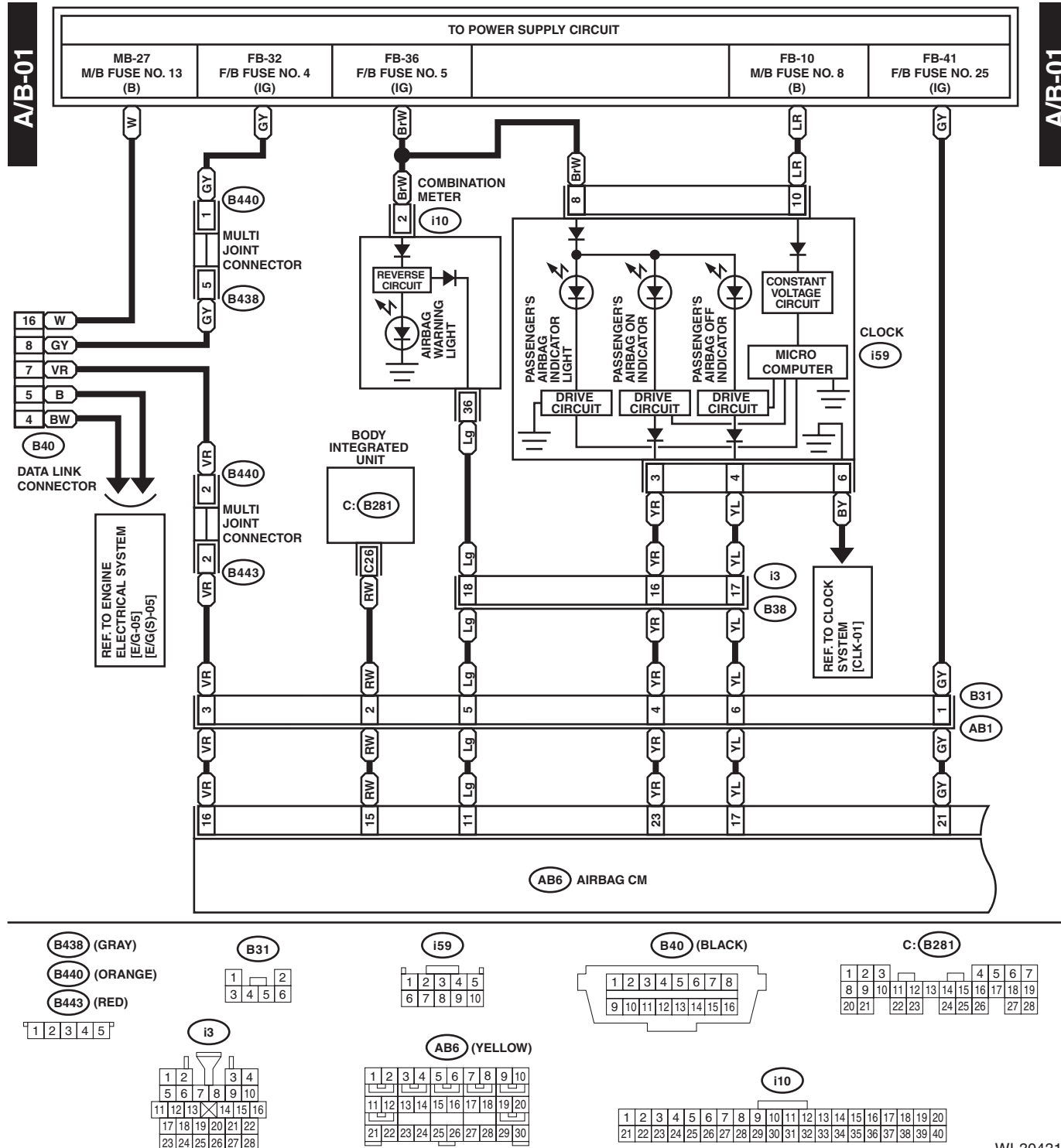
i88

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

WI-17954

13. Airbag System

A: WIRING DIAGRAM

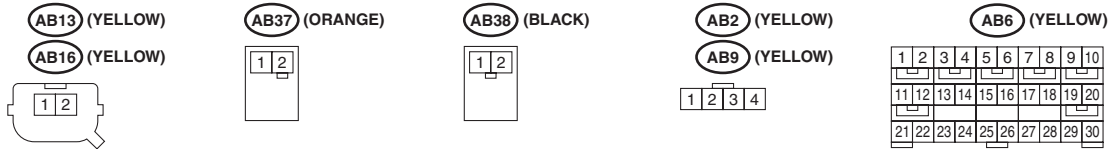
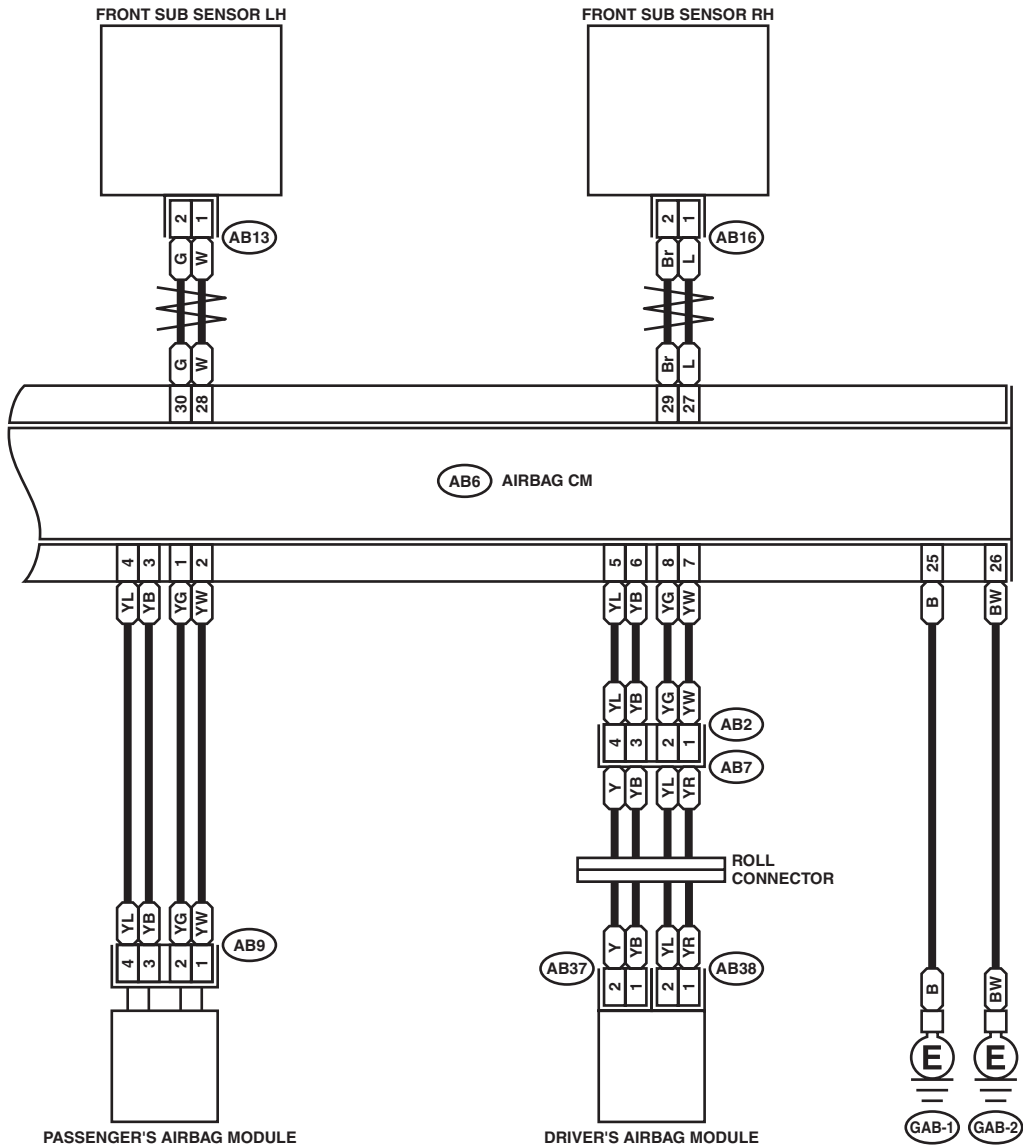


Airbag System

WIRING SYSTEM

A/B-02

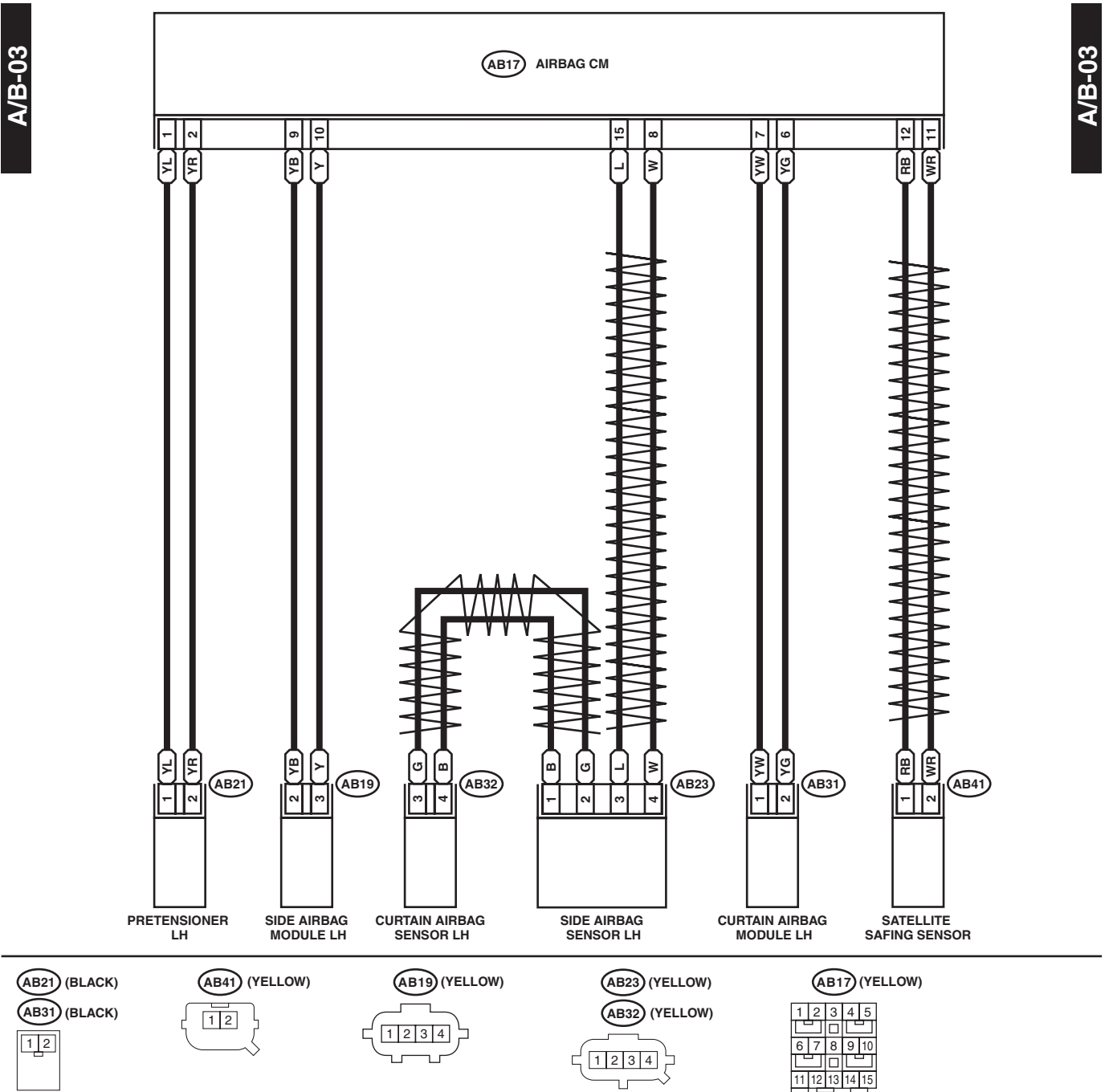
A/B-02



WI-26964

Airbag System

WIRING SYSTEM



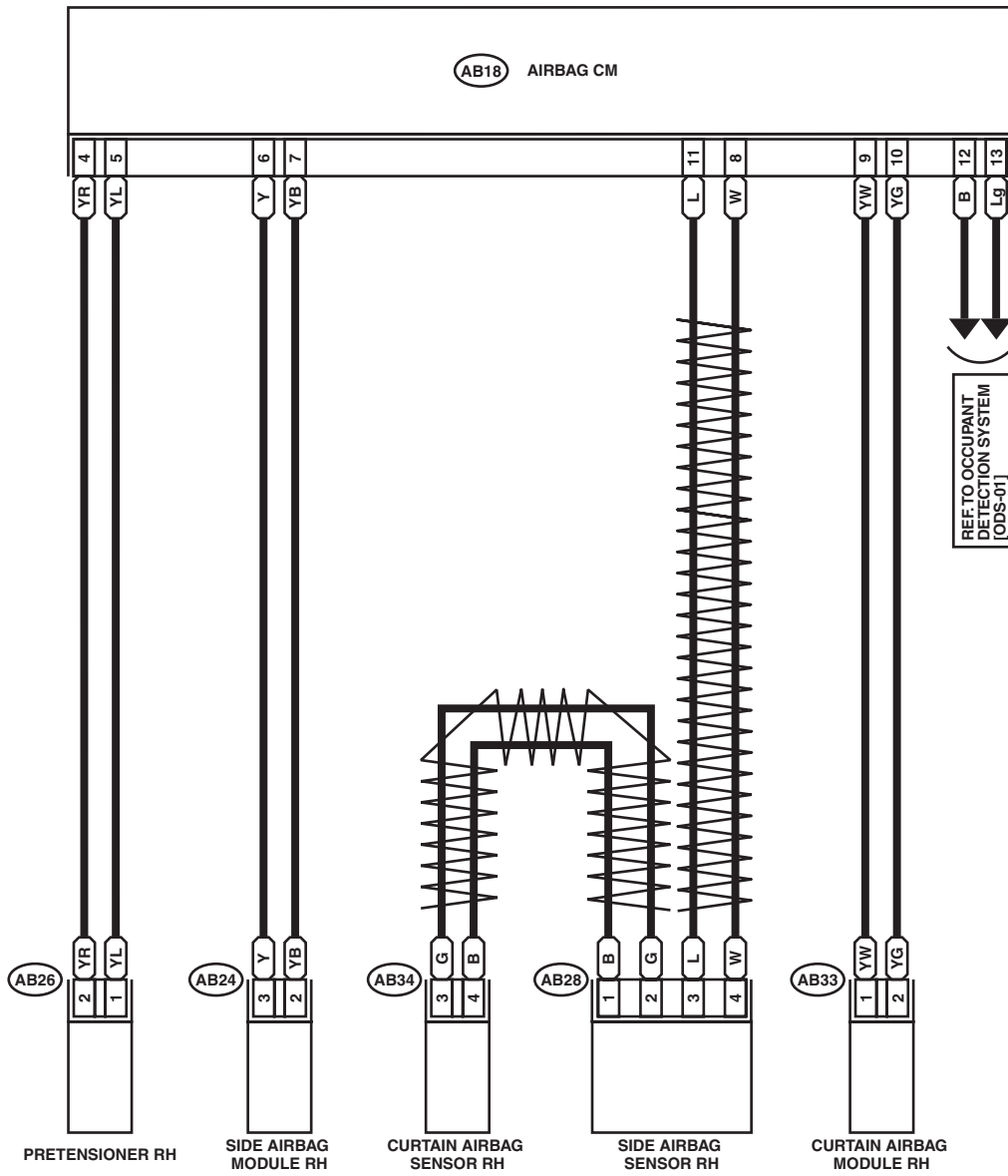
WI-29892

Airbag System

WIRING SYSTEM

A/B-04

A/B-04

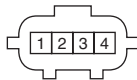


AB26 (BLACK)

AB33 (BLACK)

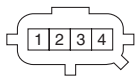


AB24 (YELLOW)

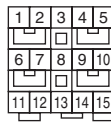


AB28 (YELLOW)

AB34 (YELLOW)



AB18 (YELLOW)



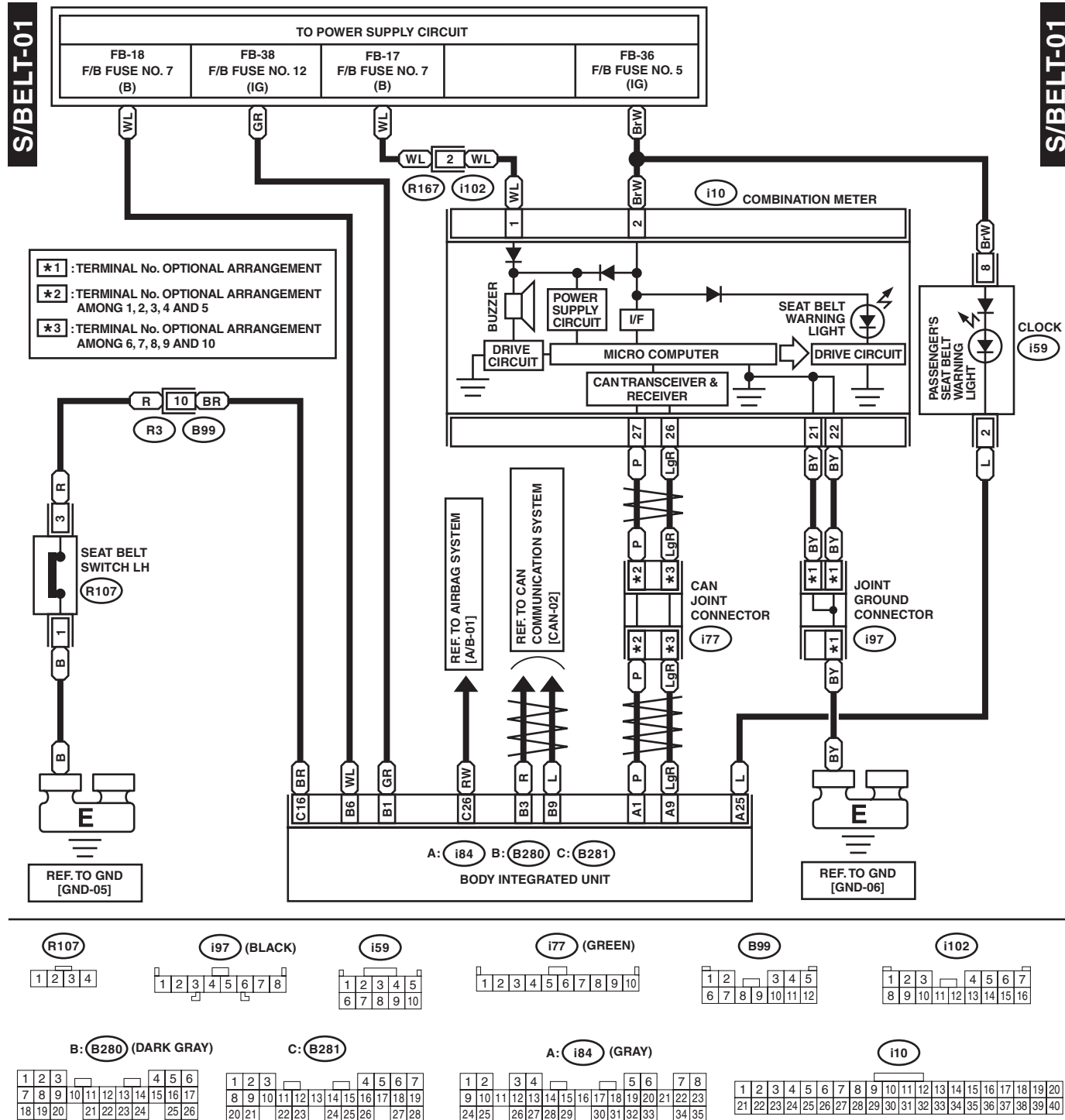
WI-29893

Seat Belt Warning System

WIRING SYSTEM

14. Seat Belt Warning System

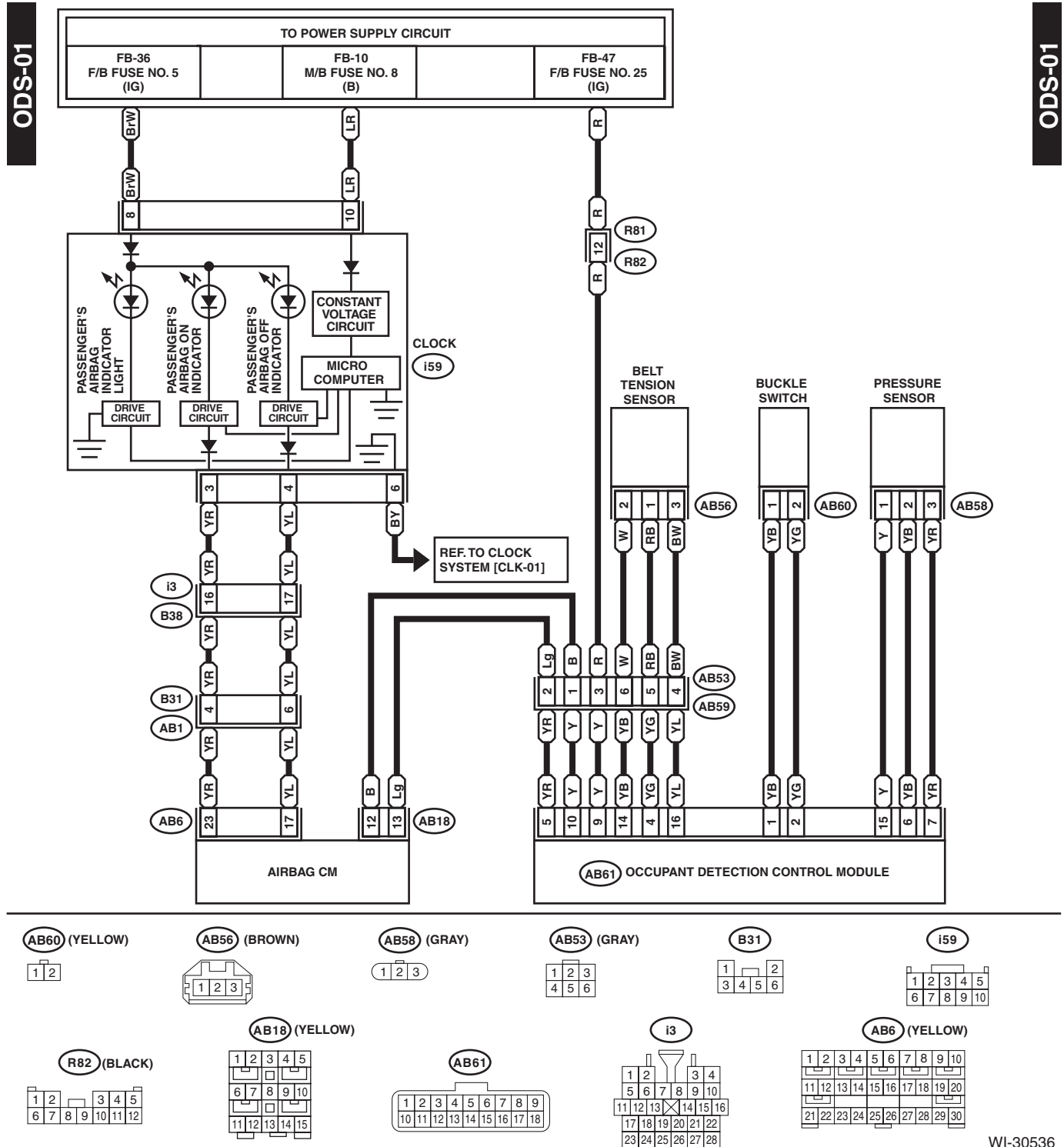
A: WIRING DIAGRAM



WI-30432

15. Occupant Detection System

A: WIRING DIAGRAM



WI-30536

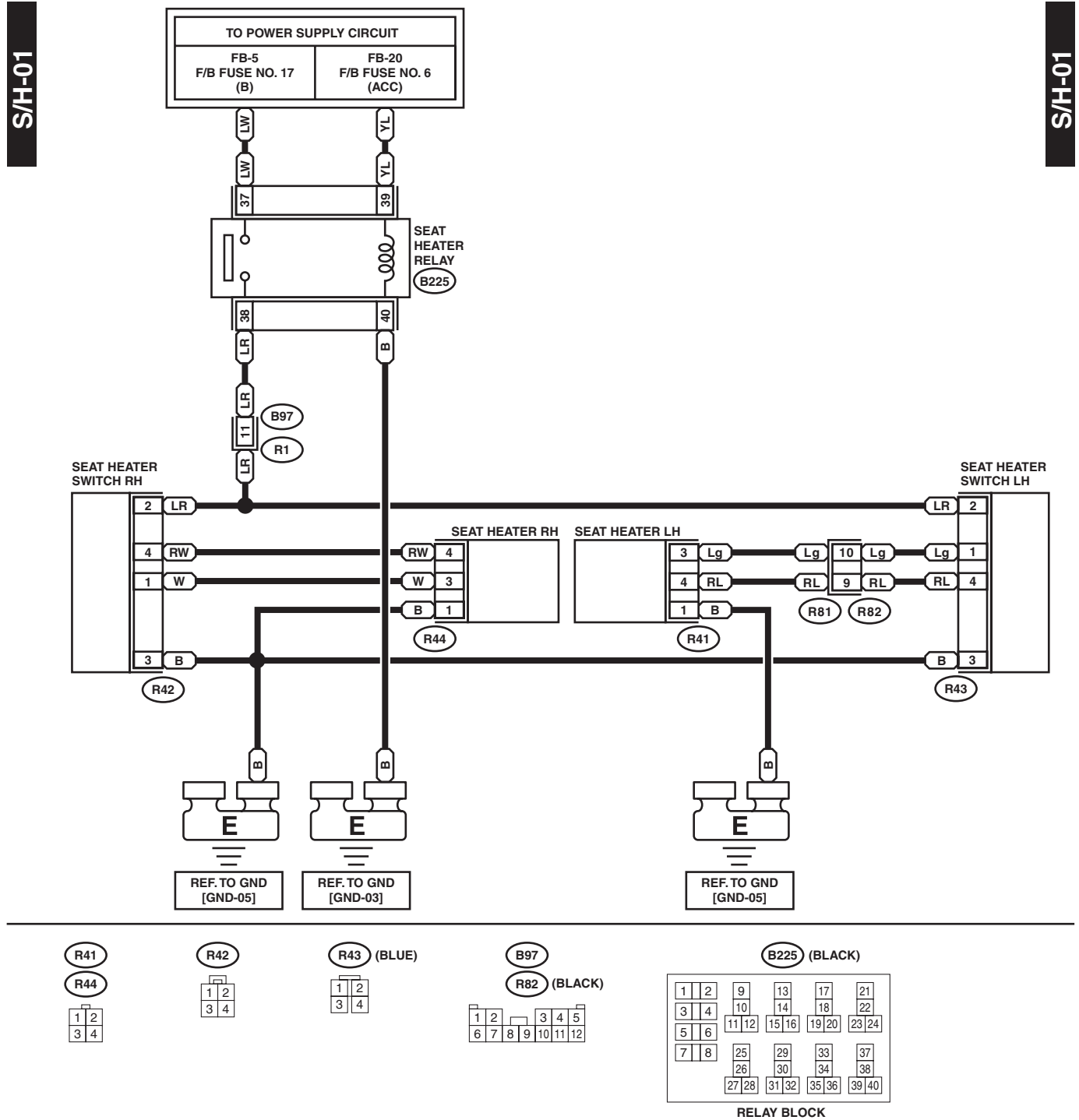
Seat Heater System

WIRING SYSTEM

16.Seat Heater System

A: WIRING DIAGRAM

1. WITHOUT SI-DRIVE

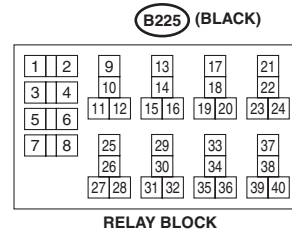
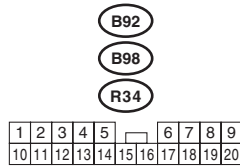
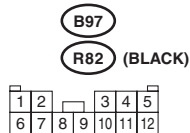
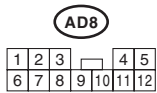
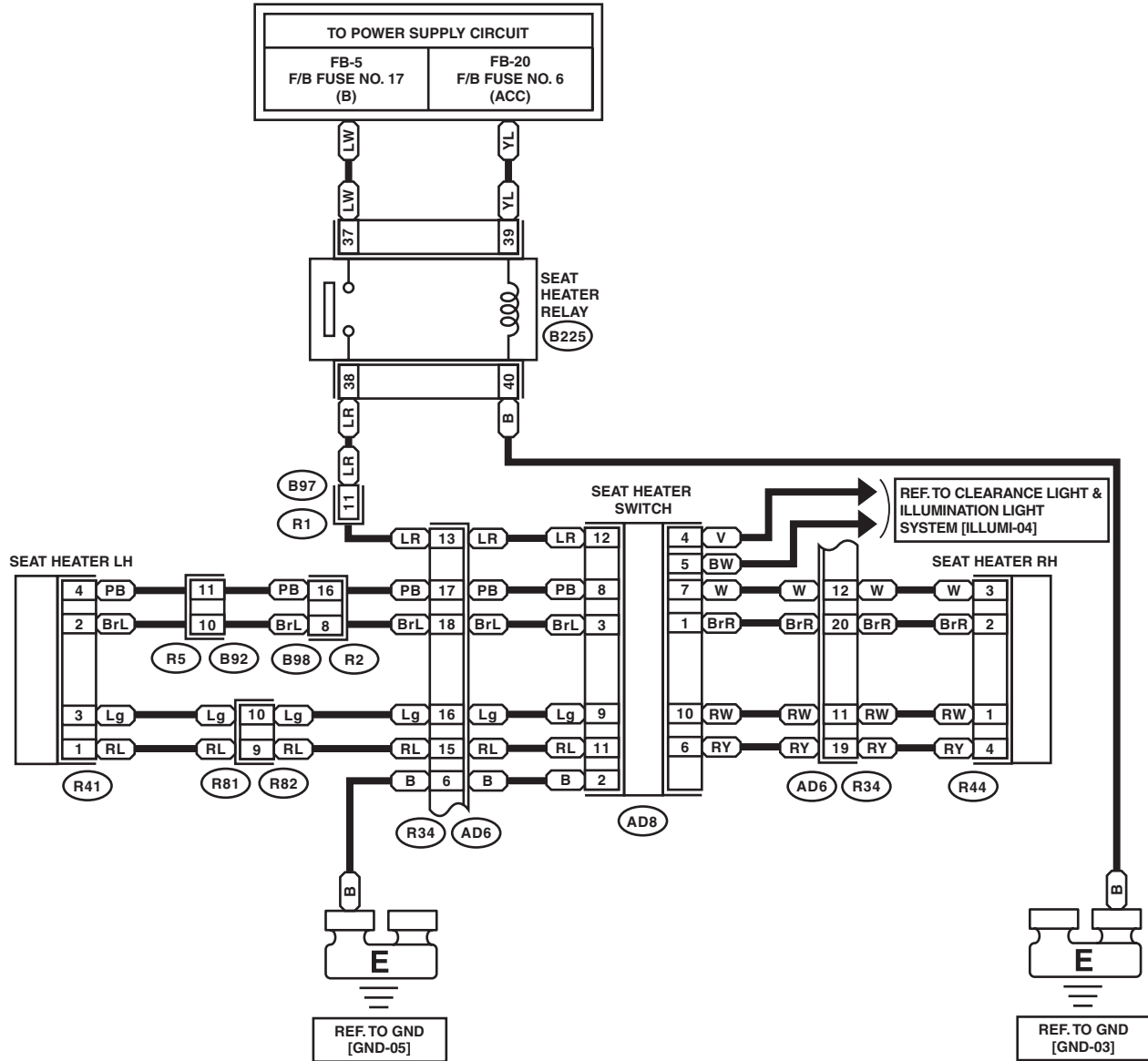


WI-30537

2. WITH SI-DRIVE

S/H(S)-01

S/H(S)-01

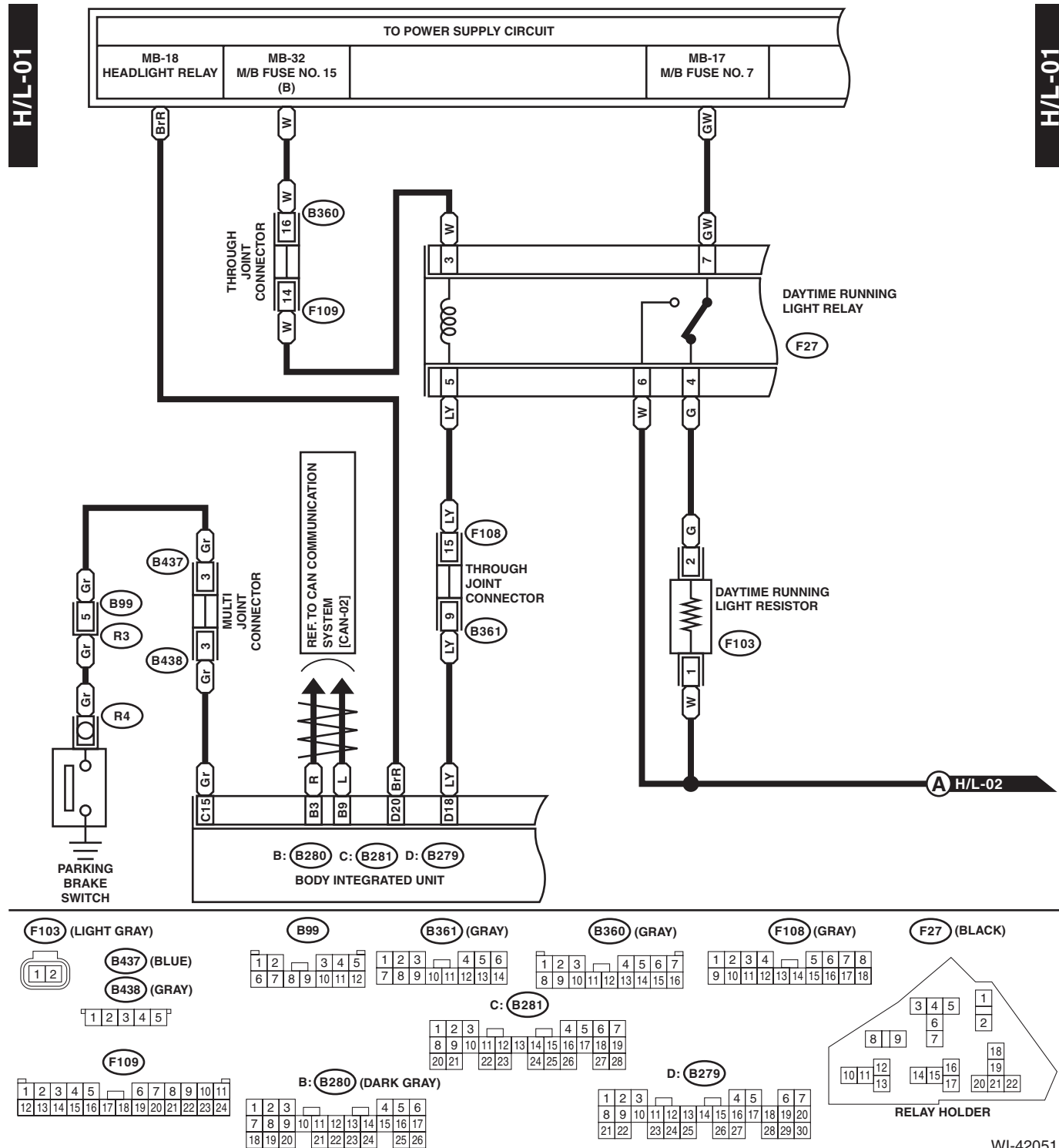


WI-30433

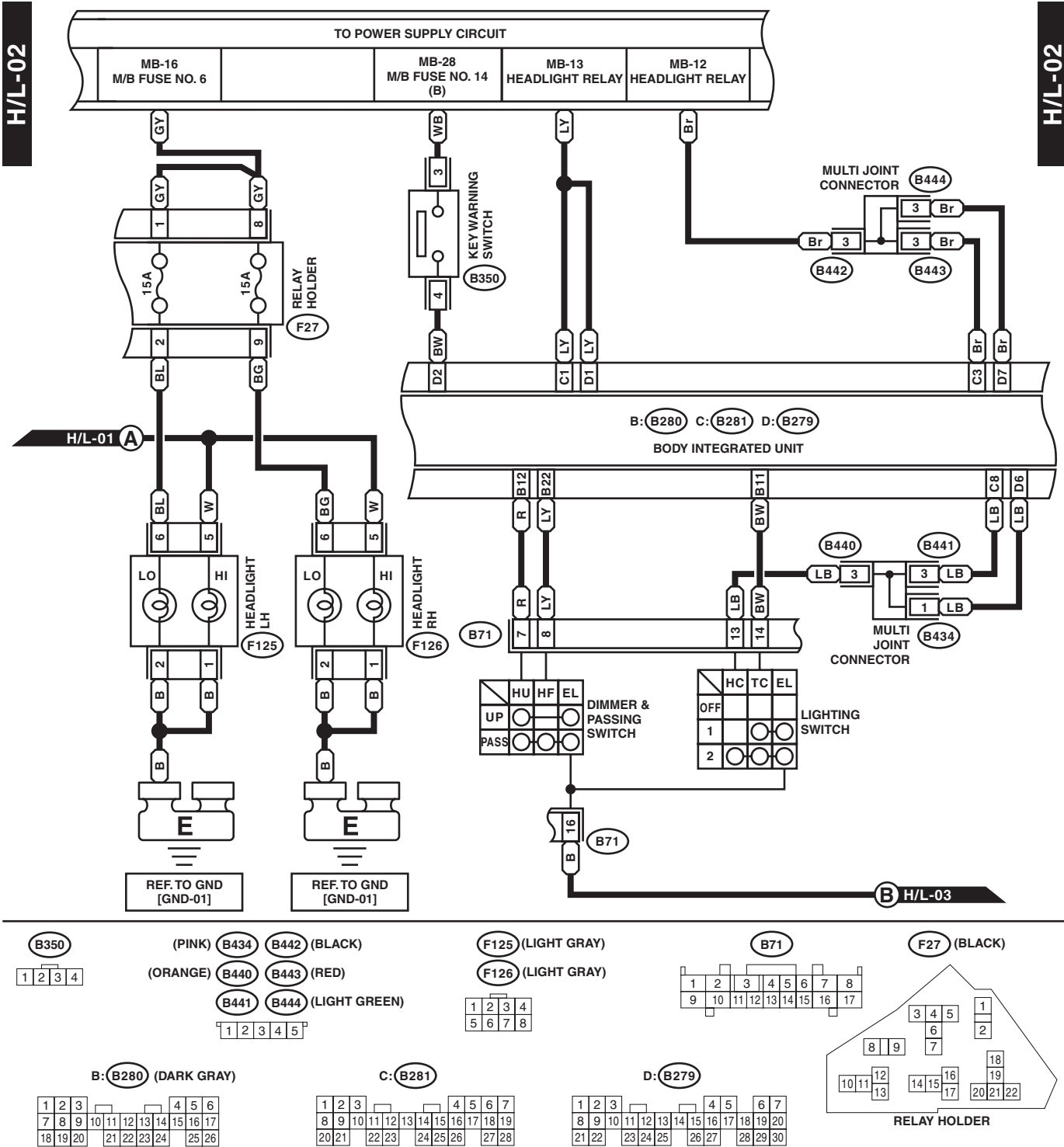
WIRING SYSTEM

17. Headlight System

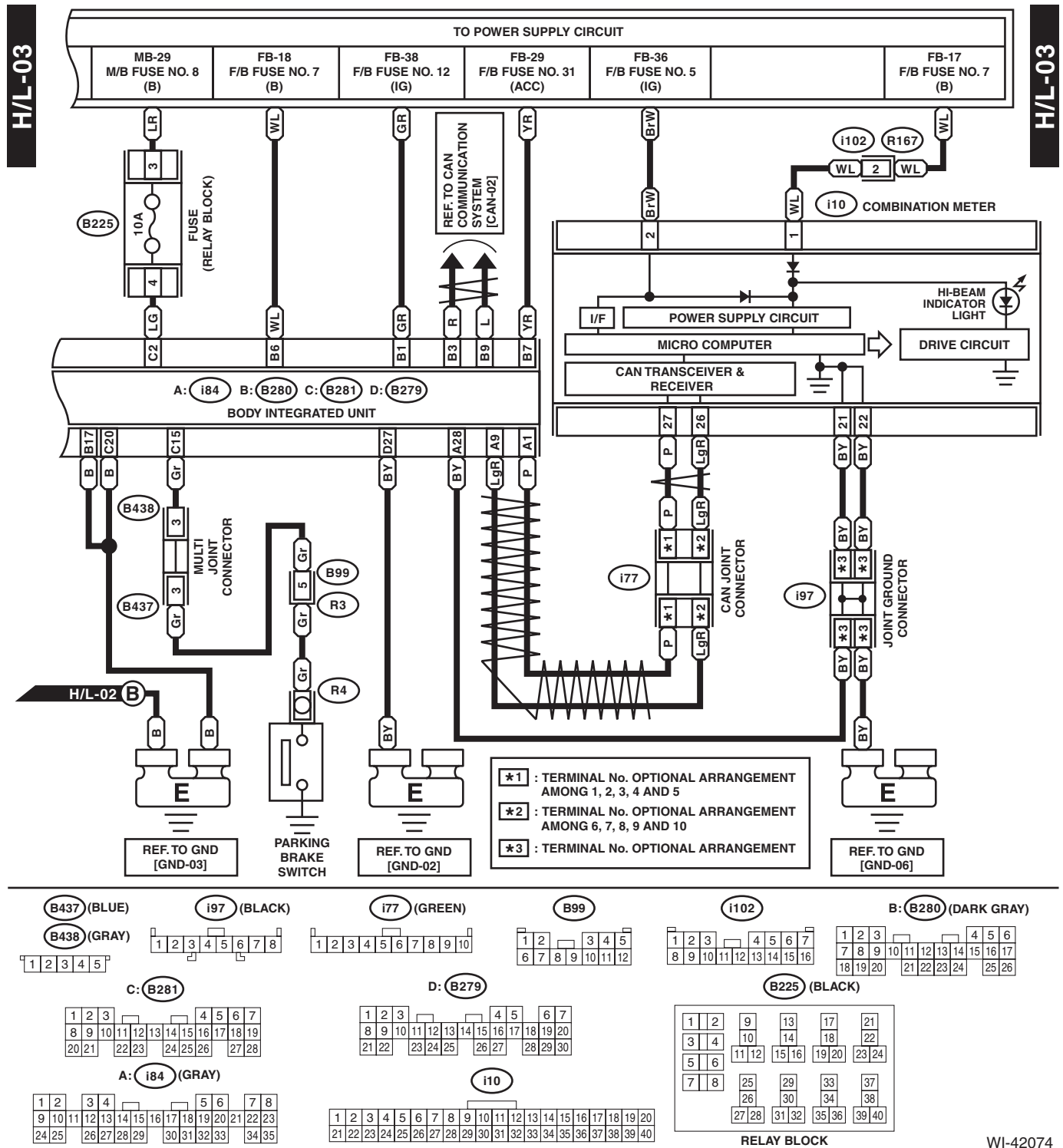
A: WIRING DIAGRAM



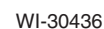
H/L-01



WIRING SYSTEM



A: WIRING DIAGRAM

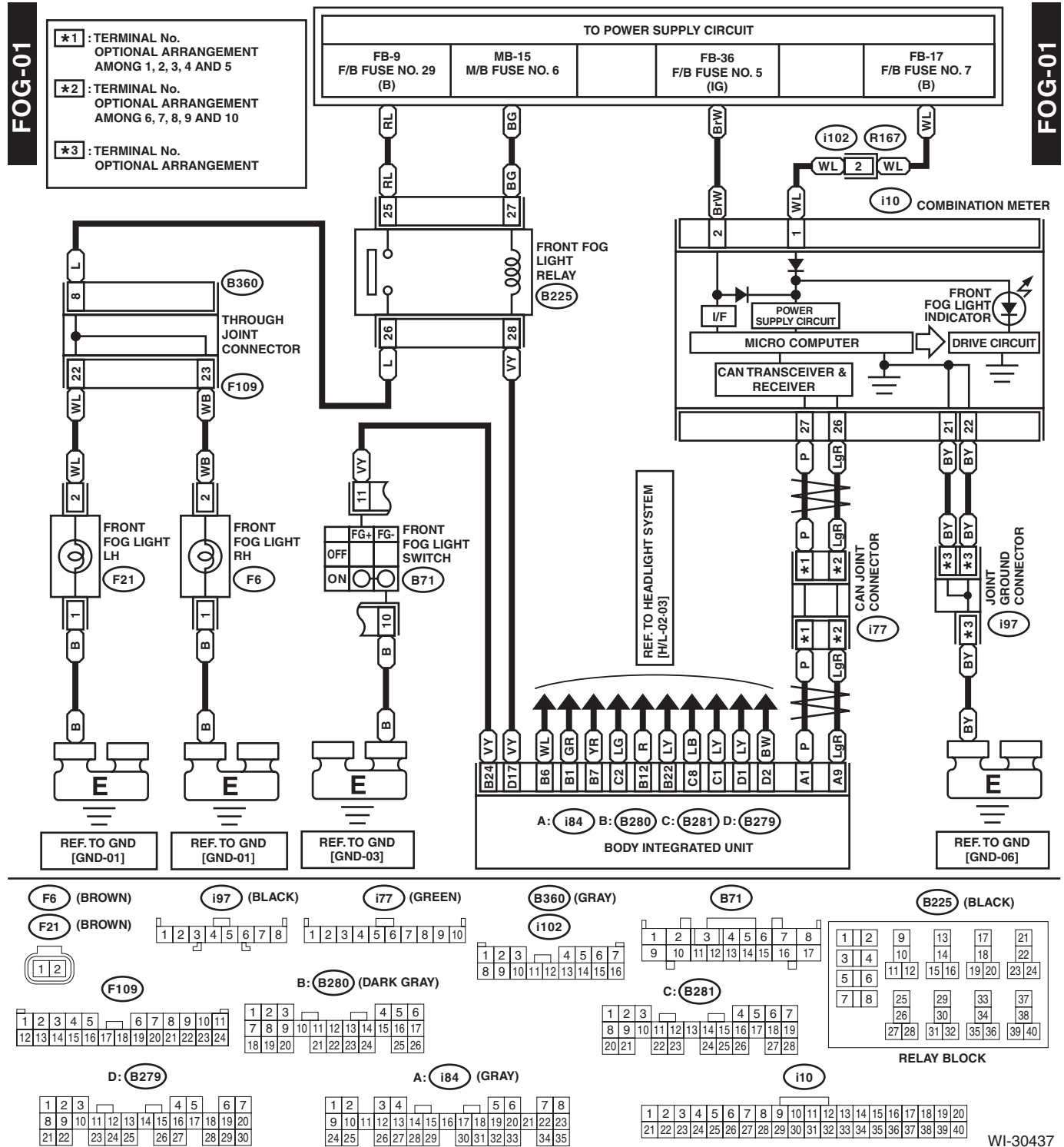


Front Fog Light System

WIRING SYSTEM

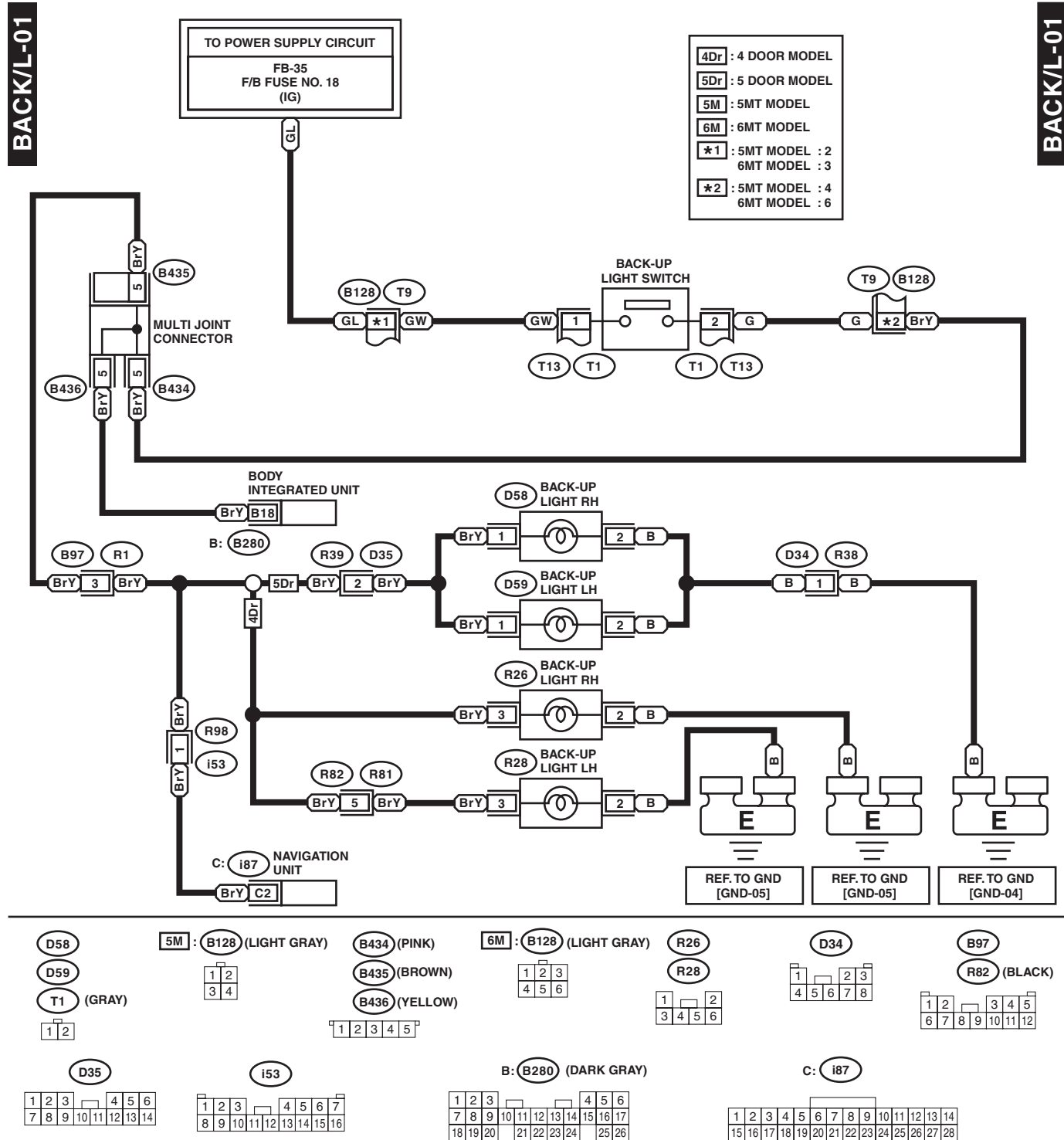
19.Front Fog Light System

A: WIRING DIAGRAM



20.Back-up Light System

A: WIRING DIAGRAM



WI-35291

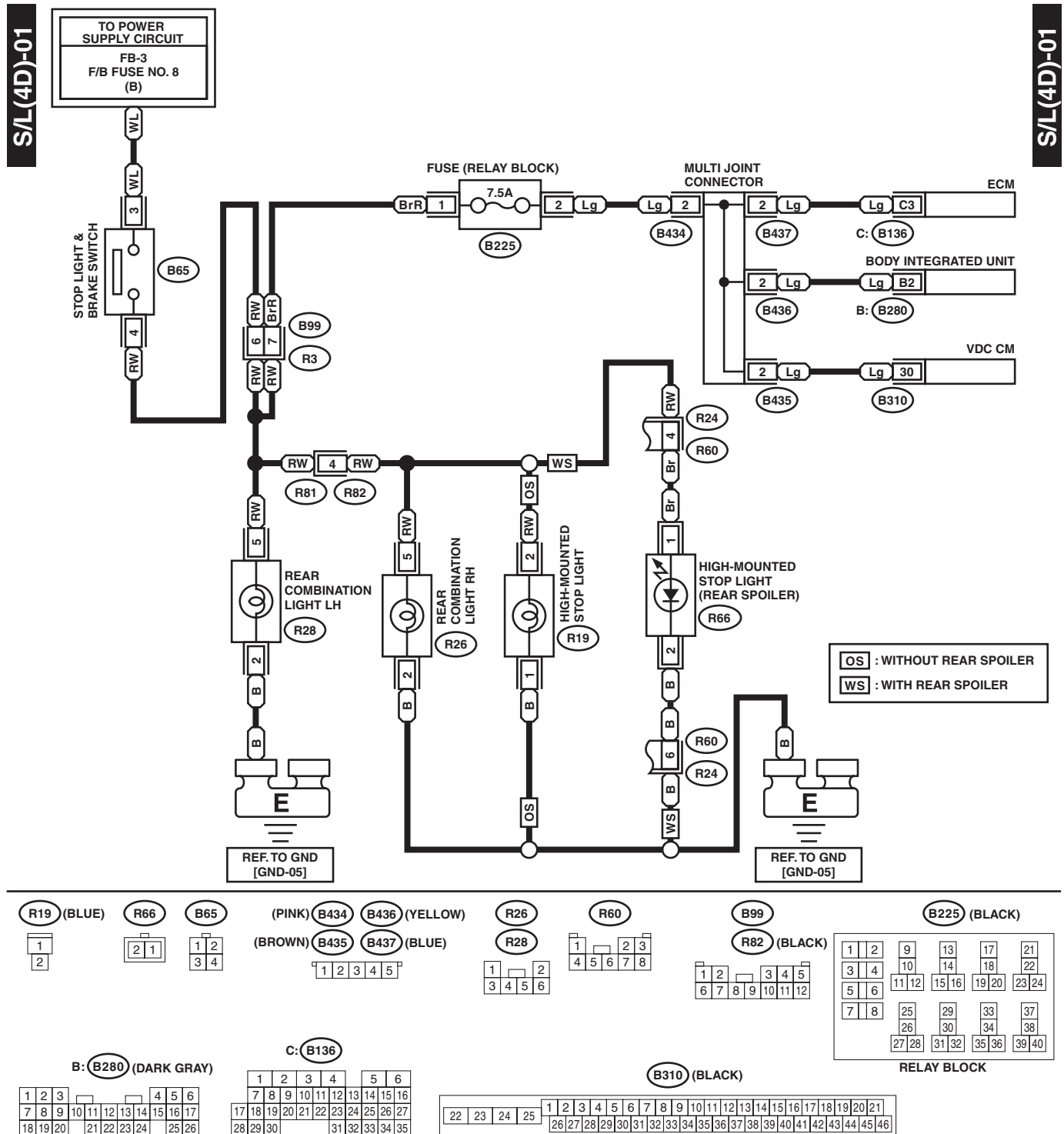
Stop Light System

WIRING SYSTEM

21. Stop Light System

A: WIRING DIAGRAM

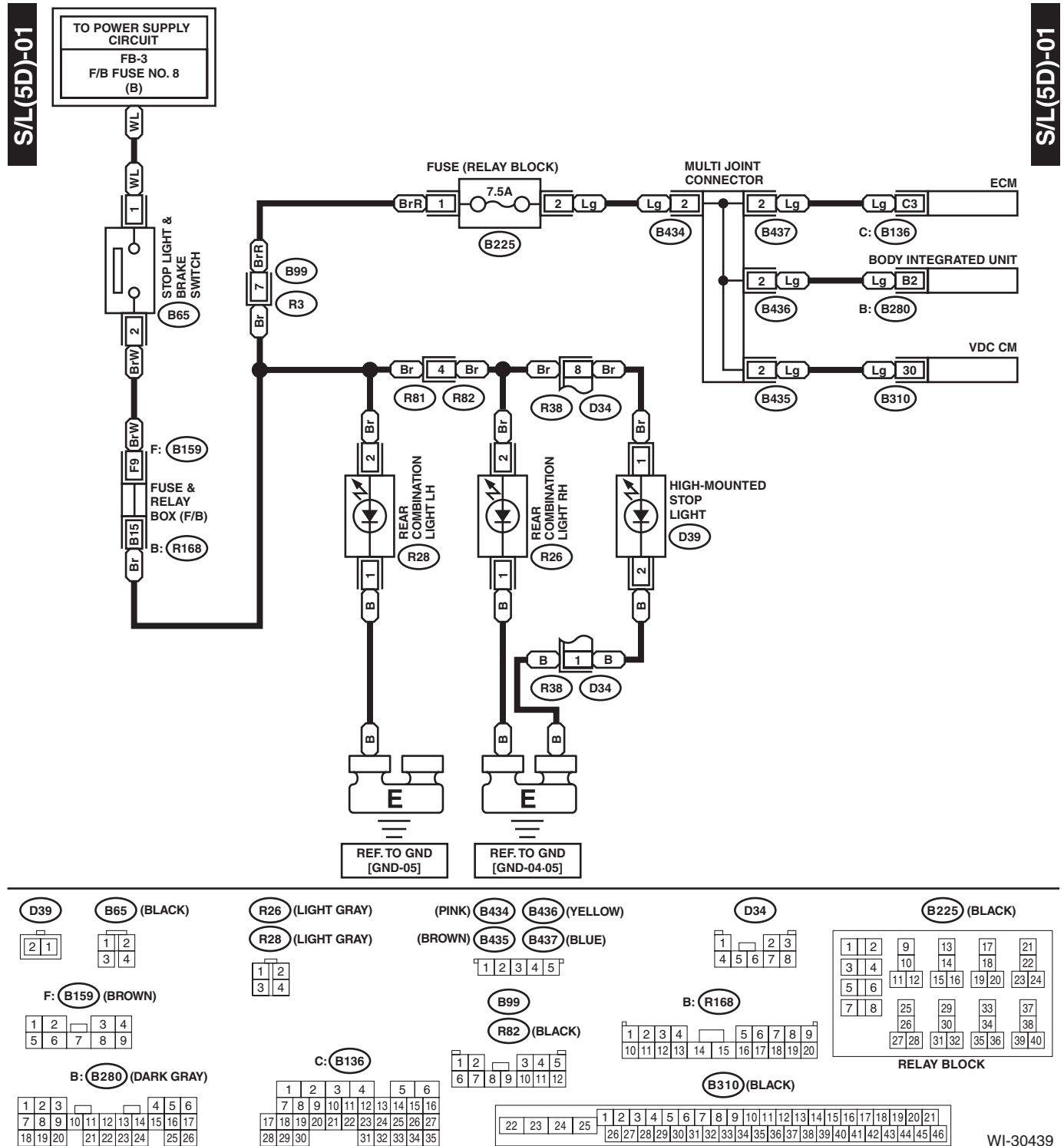
1. 4 DOOR MODEL



Stop Light System

WIRING SYSTEM

2. 5 DOOR MODEL

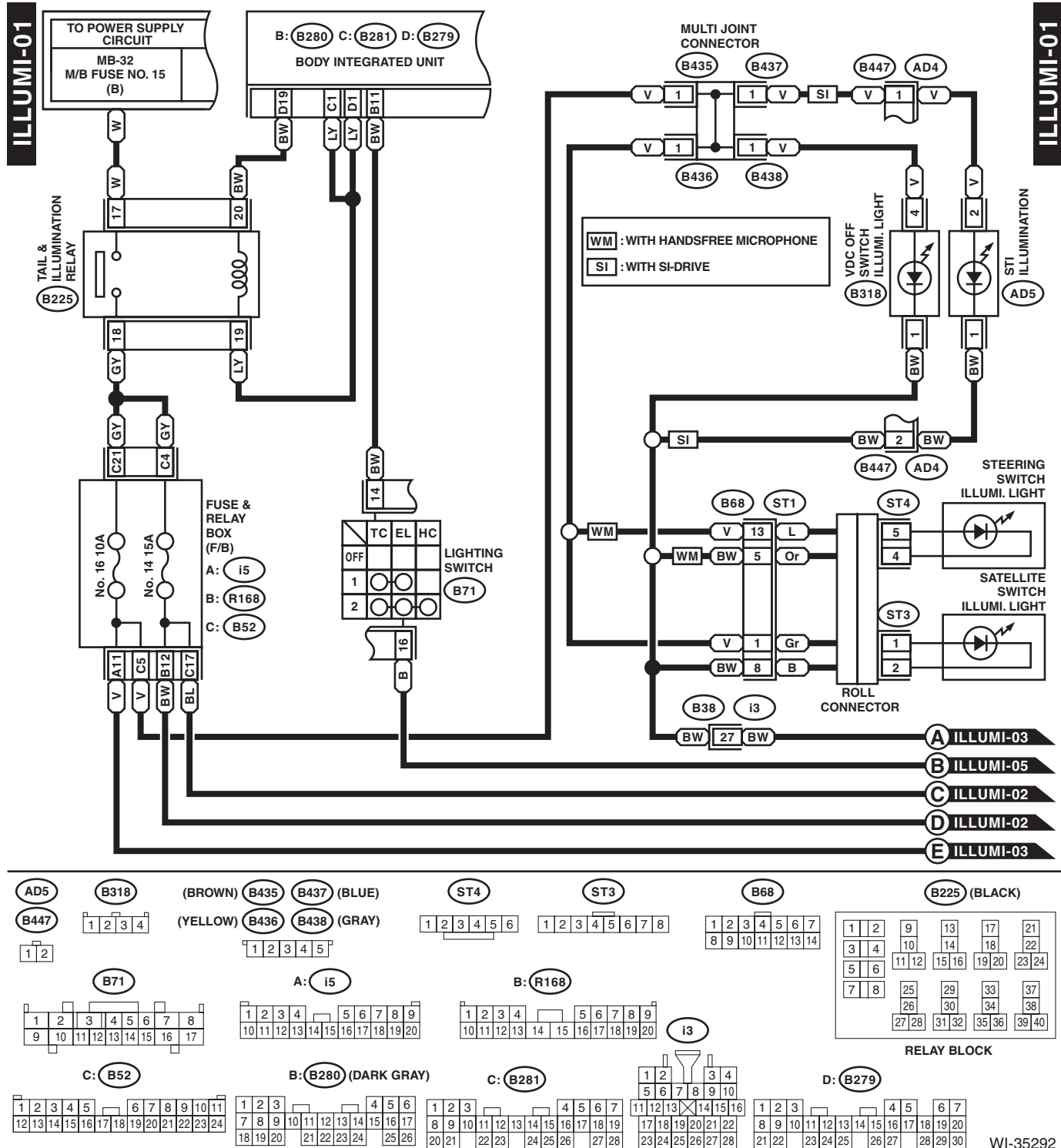


Clearance Light and Illumination Light System

WIRING SYSTEM

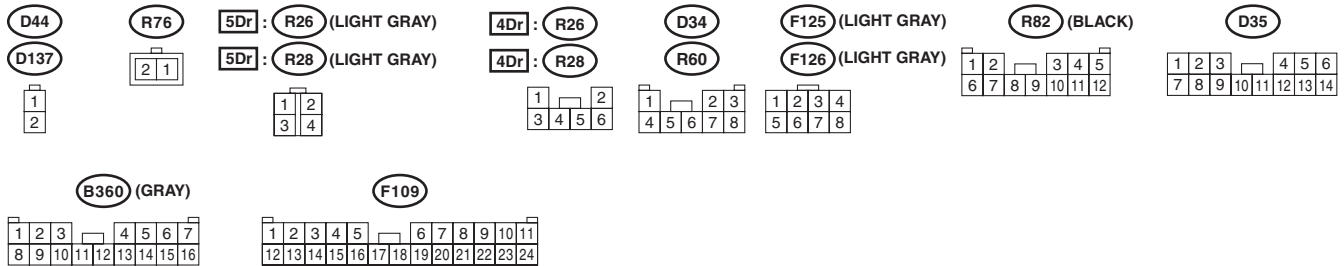
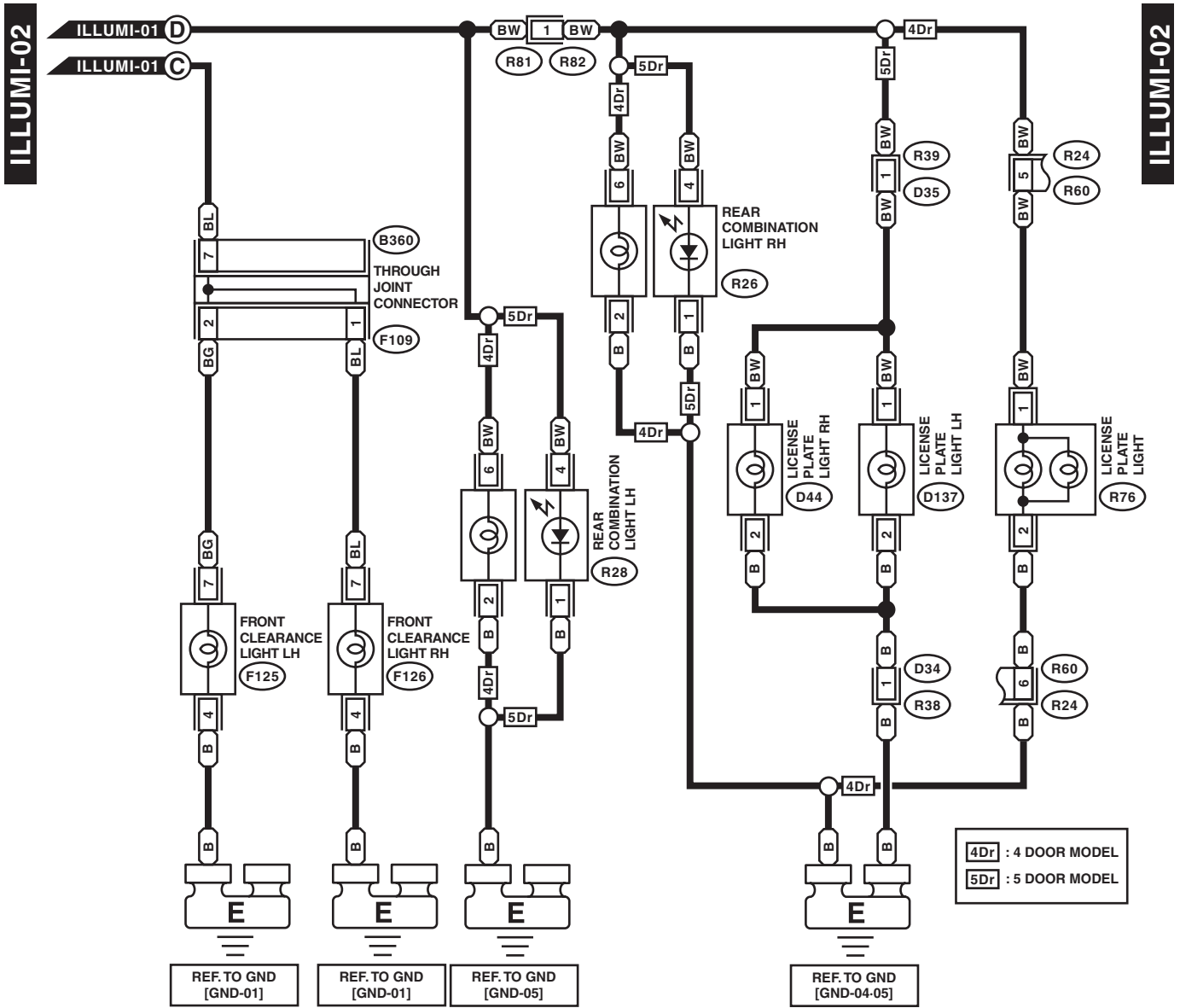
22. Clearance Light and Illumination Light System

A: WIRING DIAGRAM



Clearance Light and Illumination Light System

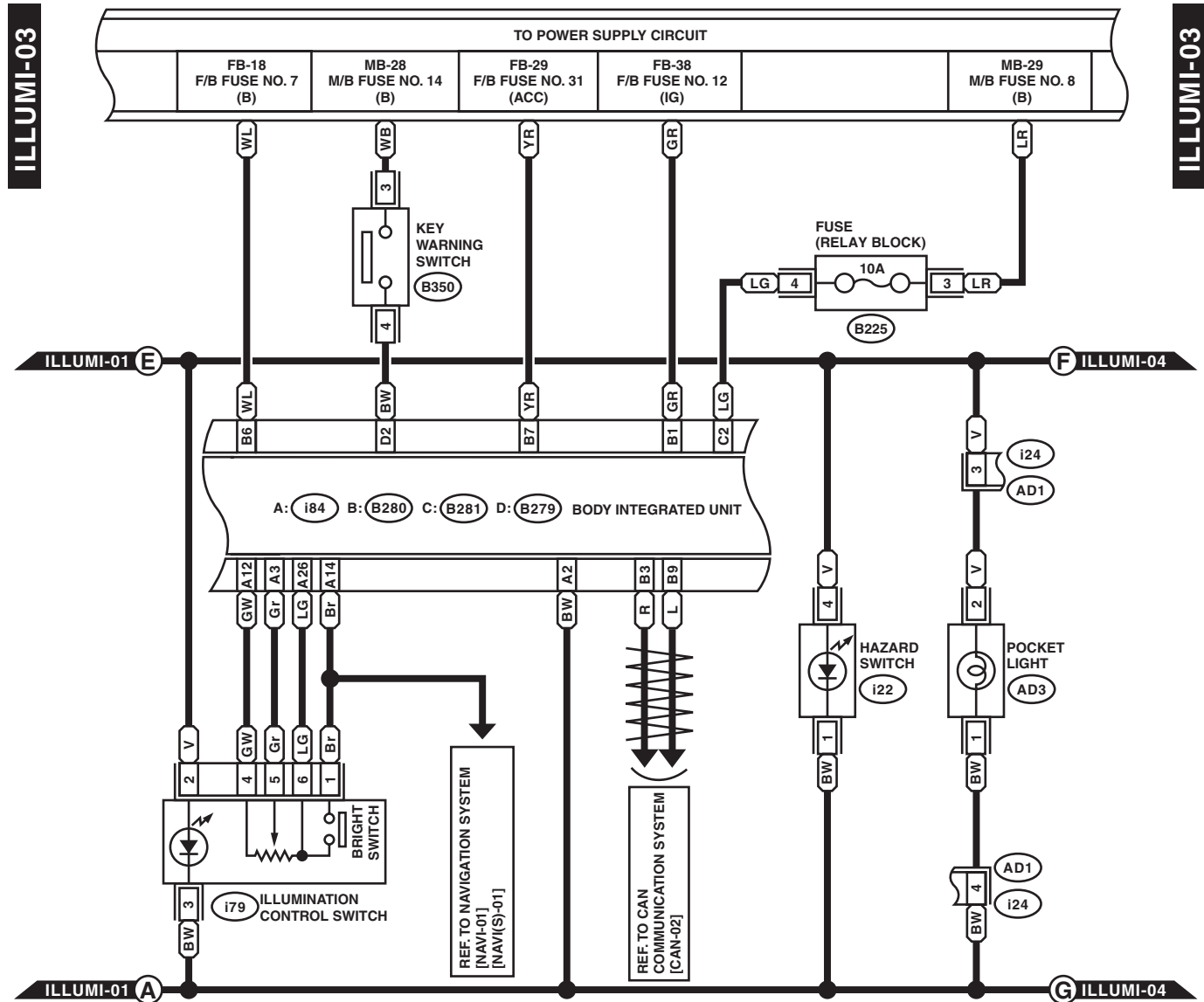
WIRING SYSTEM



WI-30540

Clearance Light and Illumination Light System

WIRING SYSTEM



AD3

1 2

B350

1 2 3 4

i22

1 2 3 4

i24

1 2
3 4

i79 (GRAY)

1 2
3 4 5 6

B: B280 (DARK GRAY)

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

B225 (BLACK)

1	2	9	13	17	21
3	4	10	14	18	22
5	6	11	15	19	23
7	8	12	16	20	24
		25	29	33	37
		26	30	34	38
		27	31	35	39
		28	32	36	40

RELAY BLOCK

C: B281

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						

D: B279

1	2	3			4	5	6	7
8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34
35	36	37	38	39	40			

A: i84 (GRAY)

1	2	3	4			5	6	7	8
9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38
39	40								

WI-35293

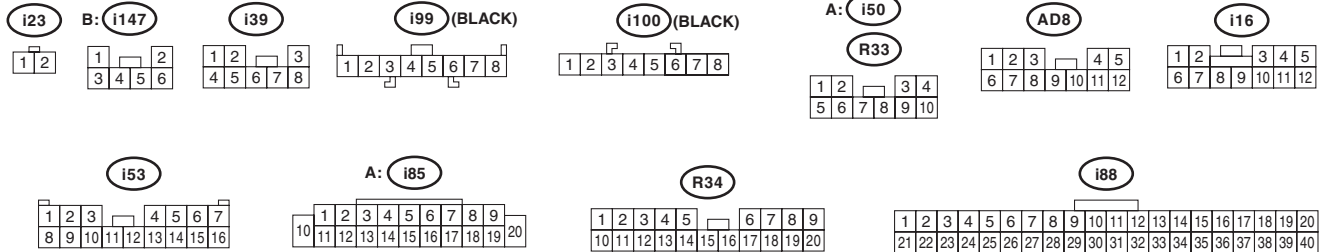
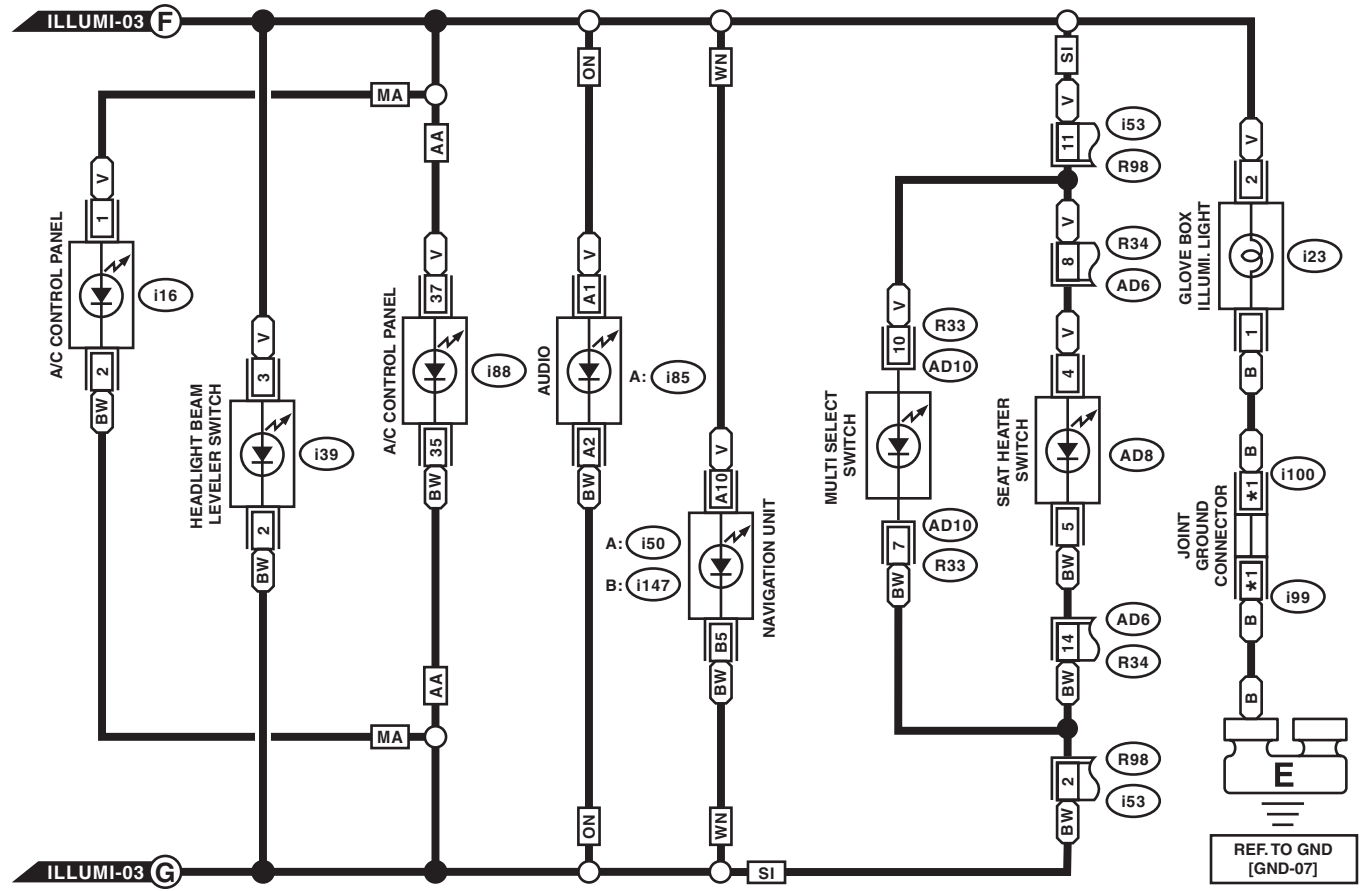
Clearance Light and Illumination Light System

WIRING SYSTEM

ILLUMI-04

ILLUMI-04

MA	: MANUAL A/C
AA	: AUTO A/C
ON	: WITHOUT NAVIGATION
WN	: WITH NAVIGATION
SI	: WITH SI-DRIVE
*1	: TERMINAL No. OPTIONAL ARRANGEMENT



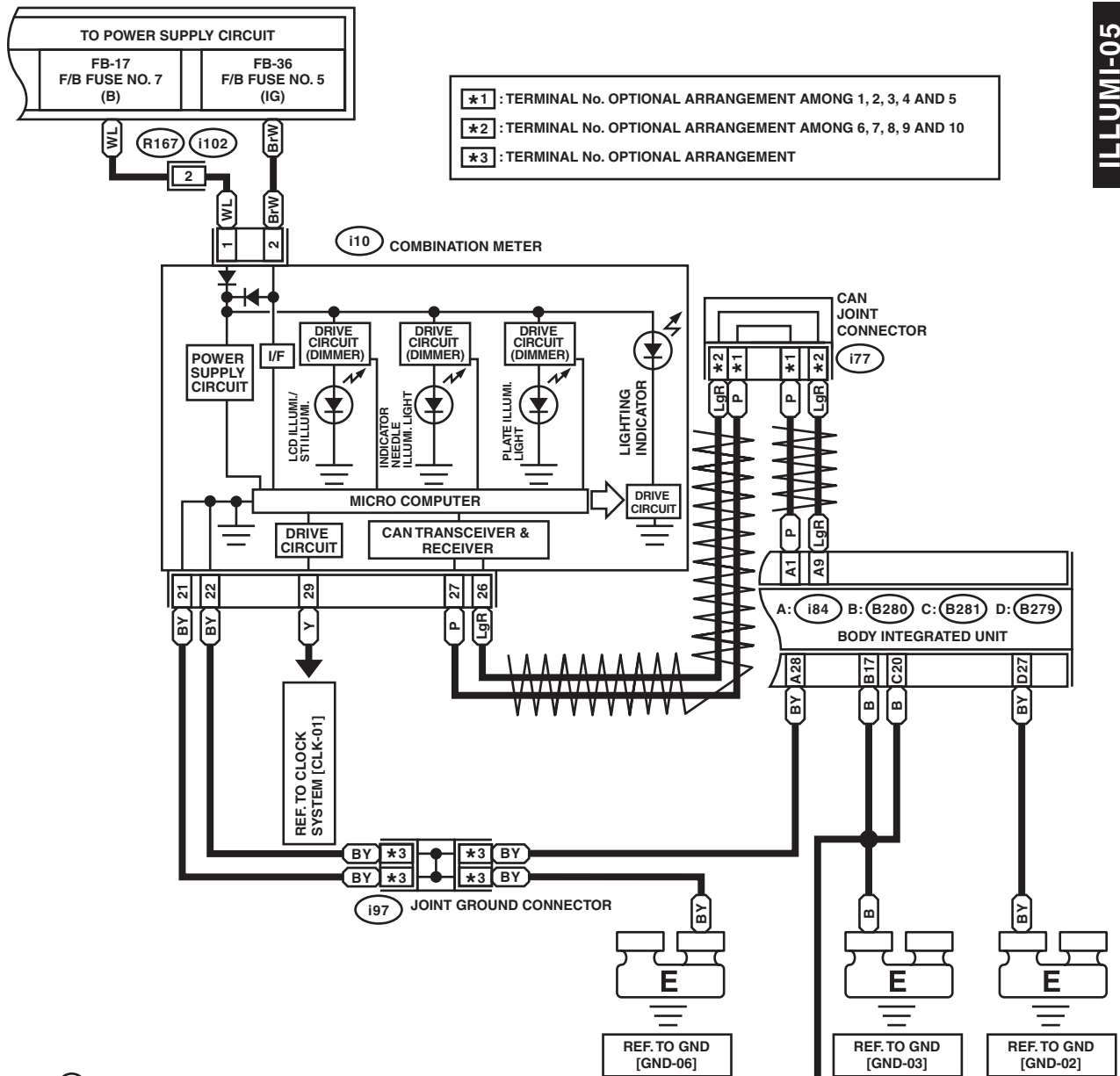
WI-42053

Clearance Light and Illumination Light System

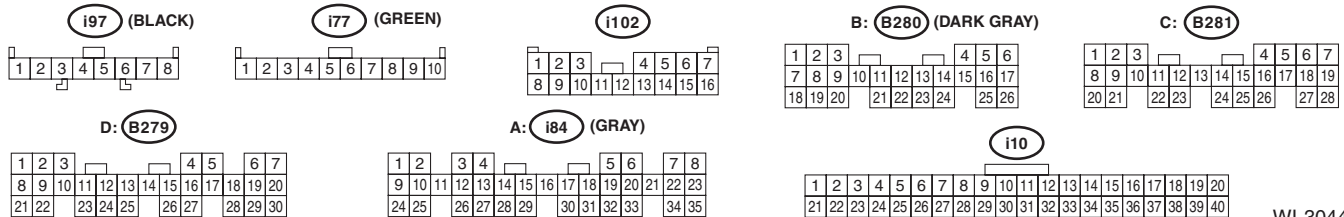
WIRING SYSTEM

ILLUMI-05

ILLUMI-05



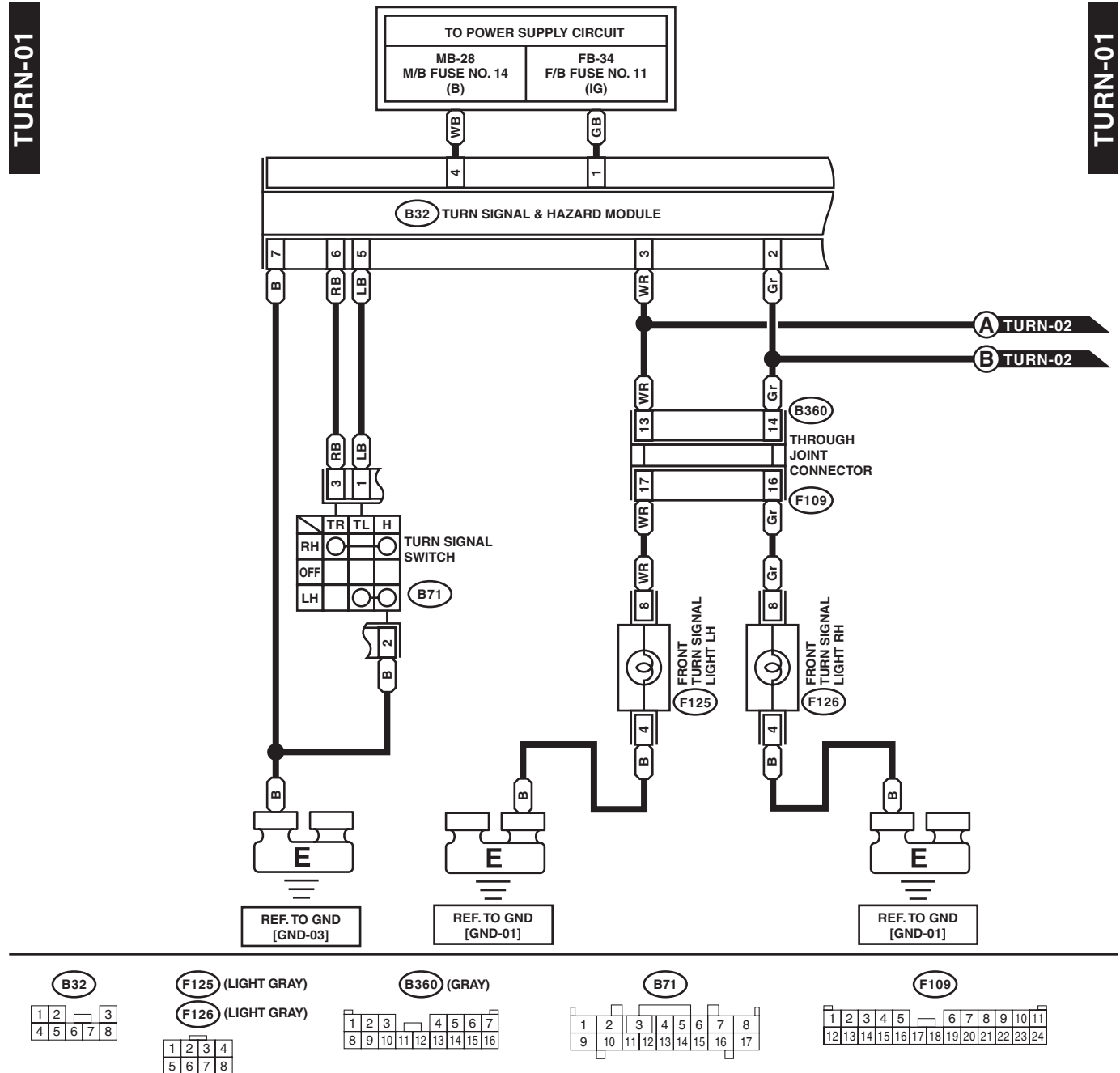
ILLUMI-01 B



WI-30442

23. Turn Signal Light and Hazard Light System

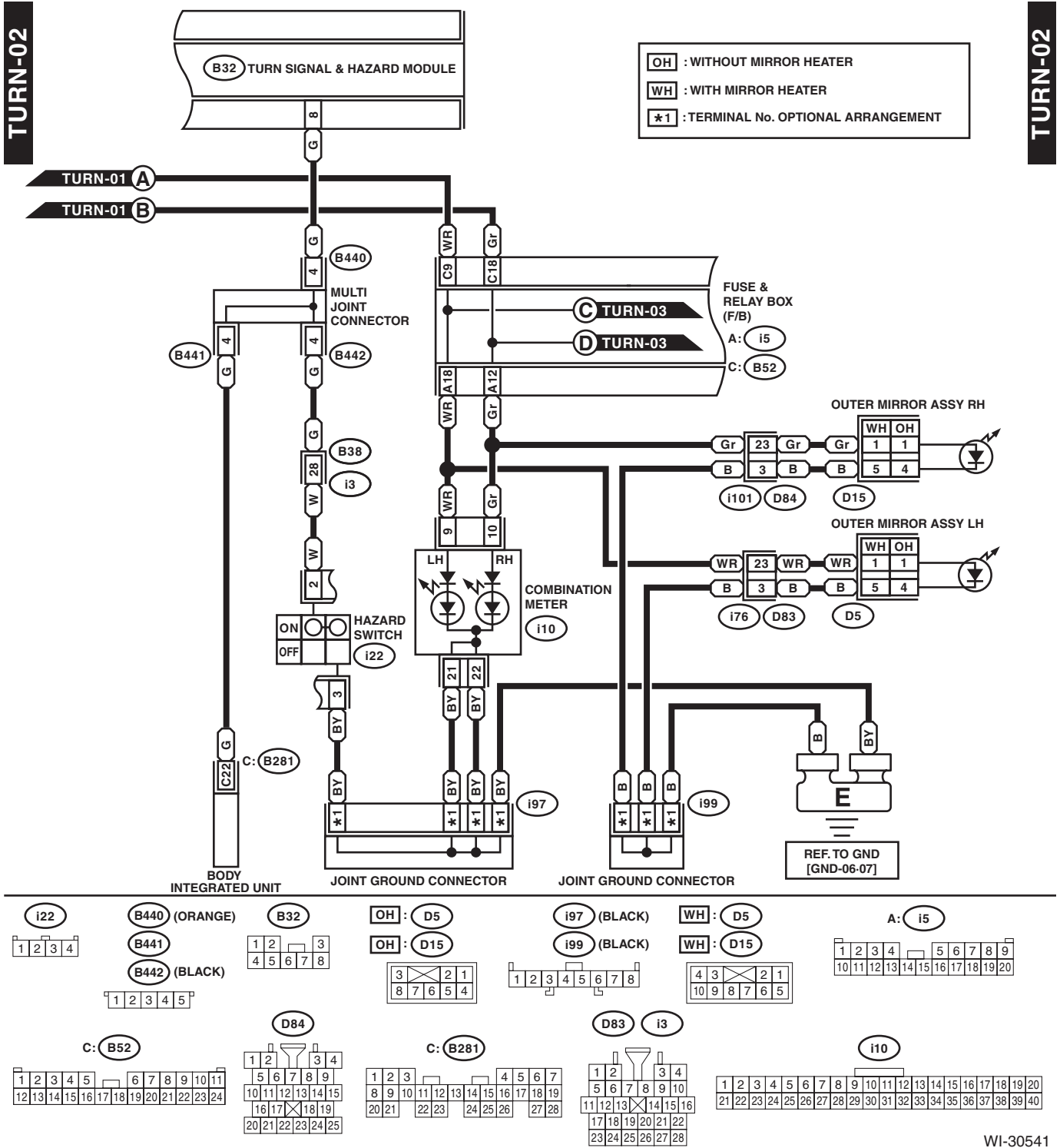
A: WIRING DIAGRAM



WI-30443

Turn Signal Light and Hazard Light System

WIRING SYSTEM



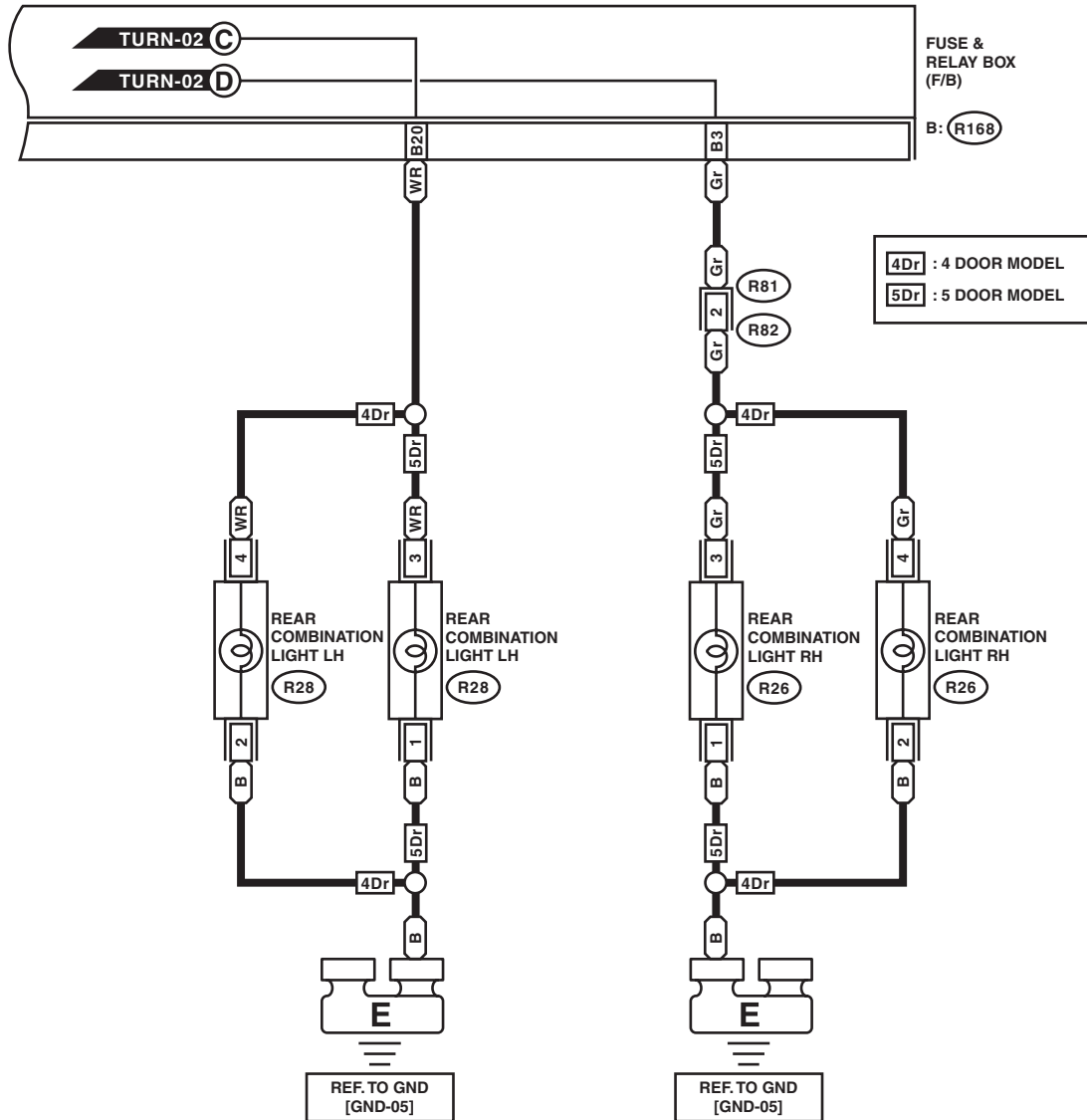
WI-30541

Turn Signal Light and Hazard Light System

WIRING SYSTEM

TURN-03

TURN-03



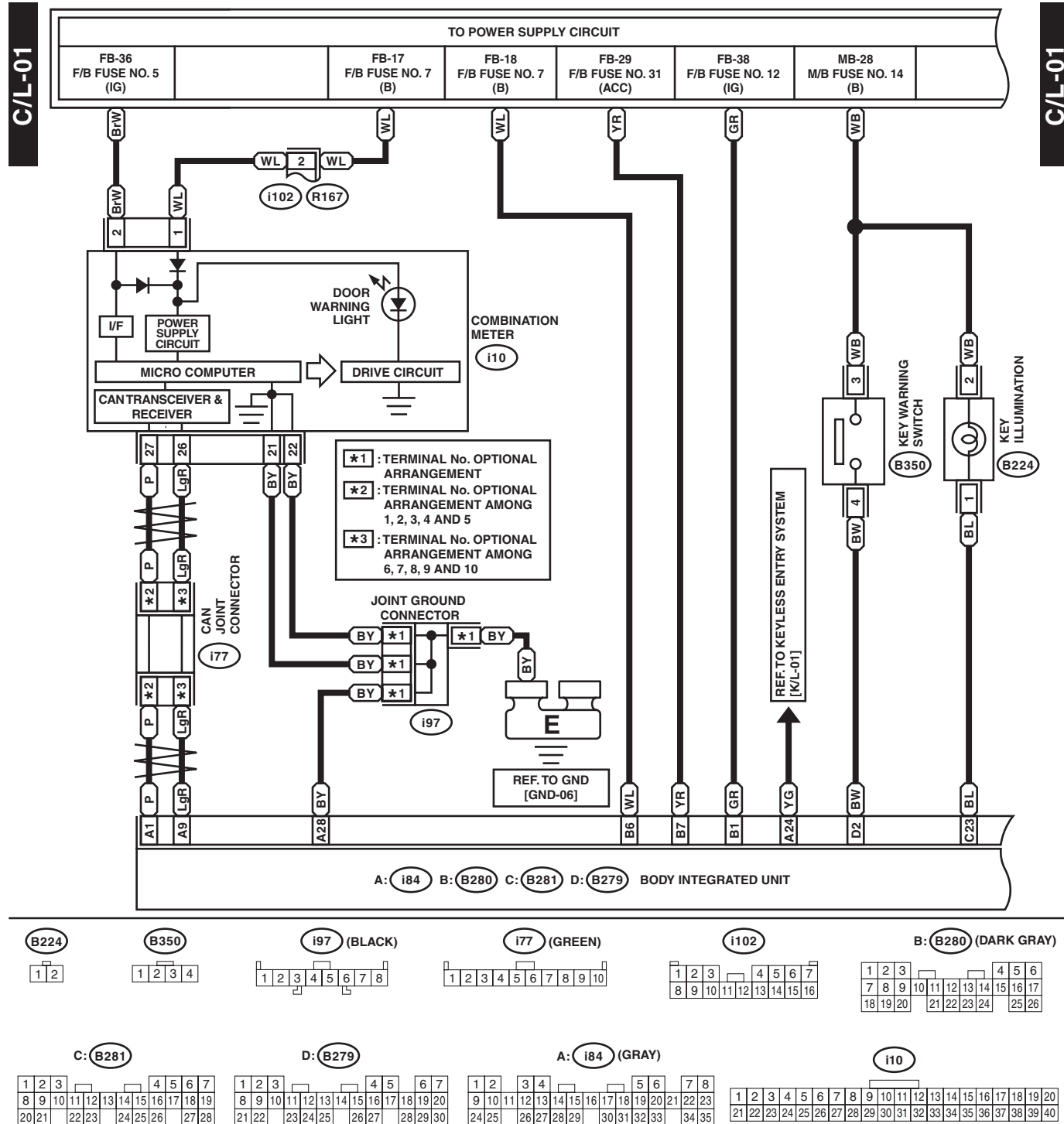
WI-30542

Interior Light System

WIRING SYSTEM

24. Interior Light System

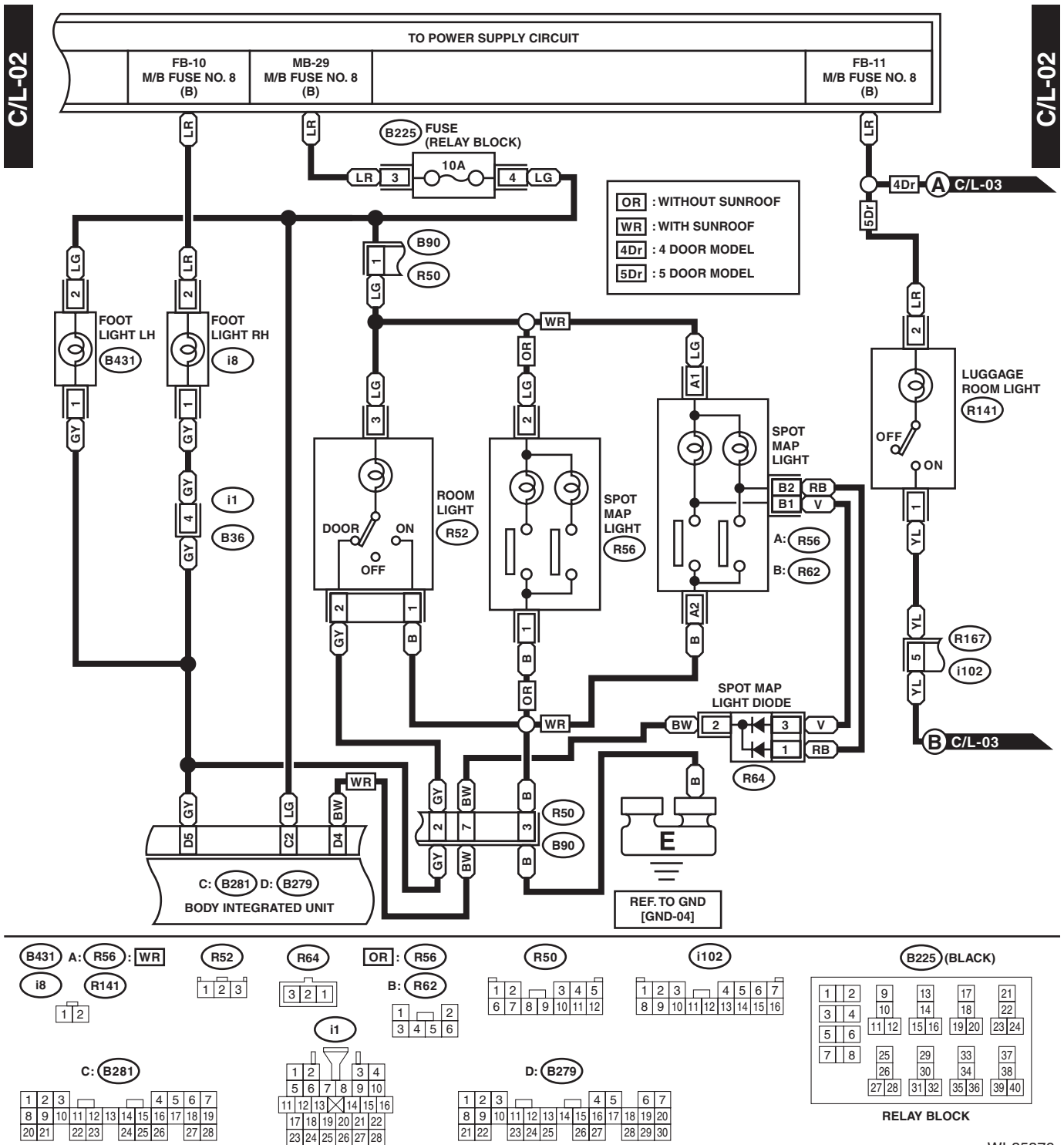
A: WIRING DIAGRAM



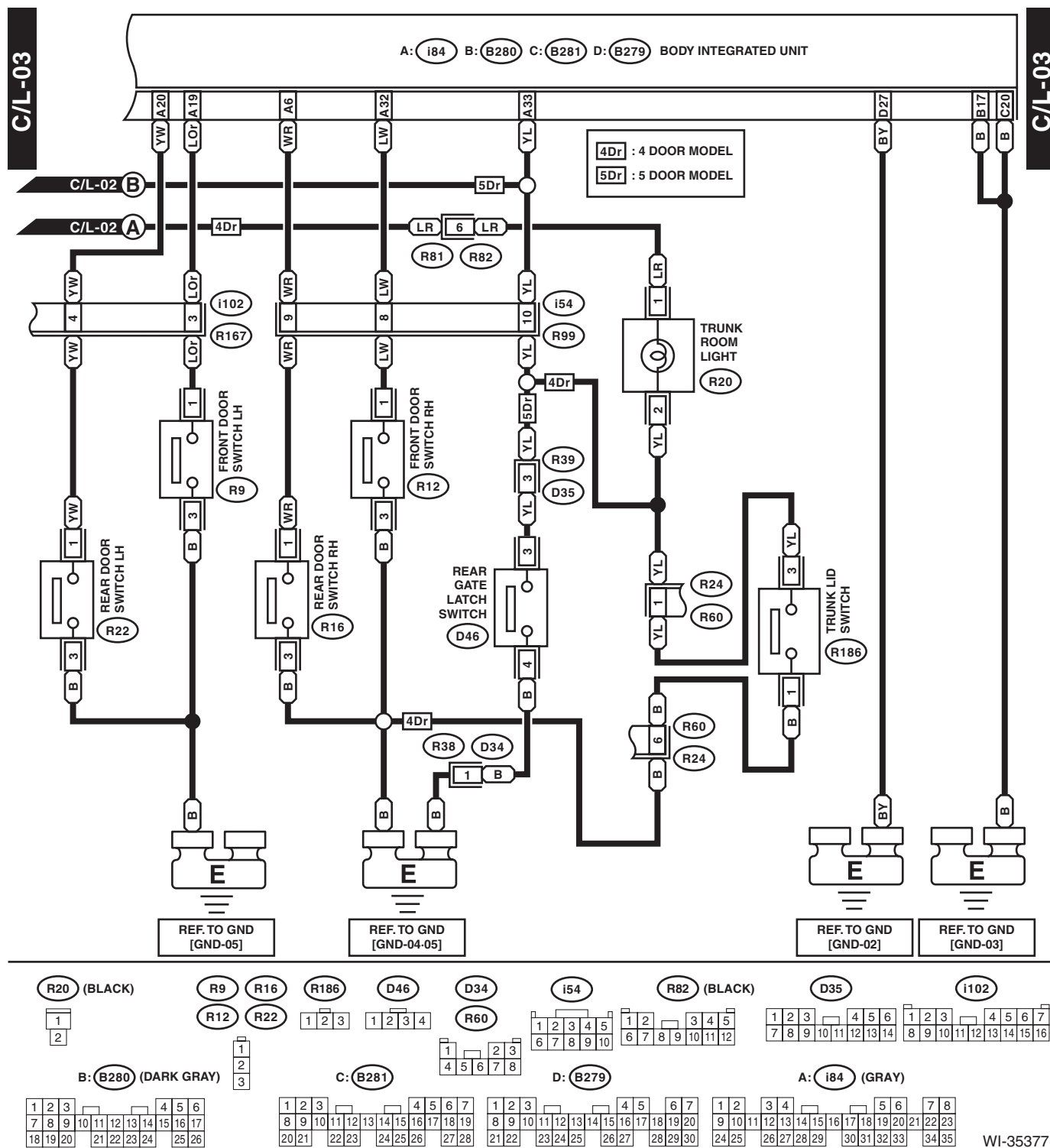
WI-30444

Interior Light System

WIRING SYSTEM

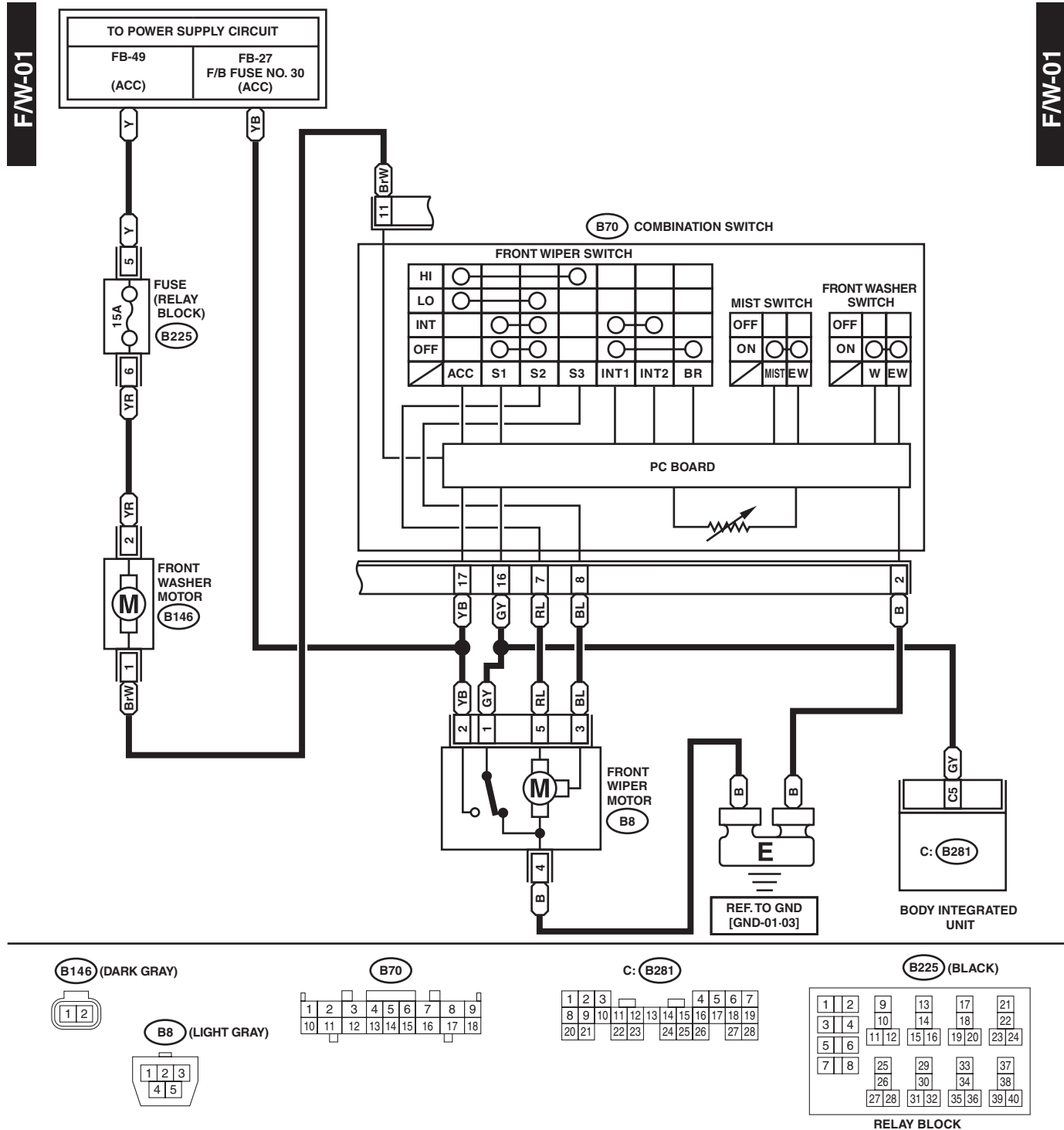


WIRING SYSTEM



25.Front Wiper and Washer System

A: WIRING DIAGRAM



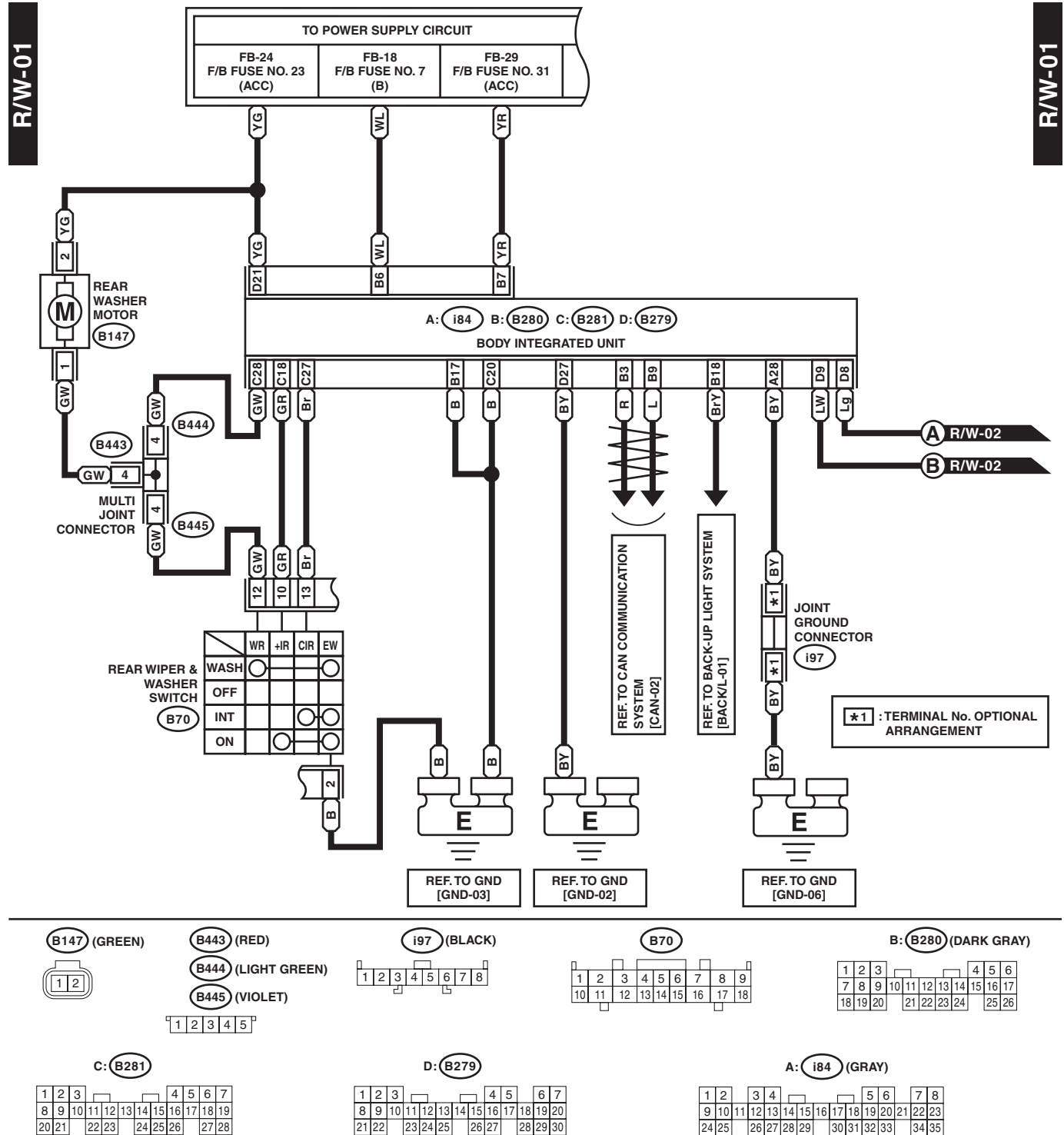
WI-30447

Rear Wiper and Washer System

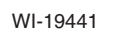
WIRING SYSTEM

26.Rear Wiper and Washer System

A: WIRING DIAGRAM

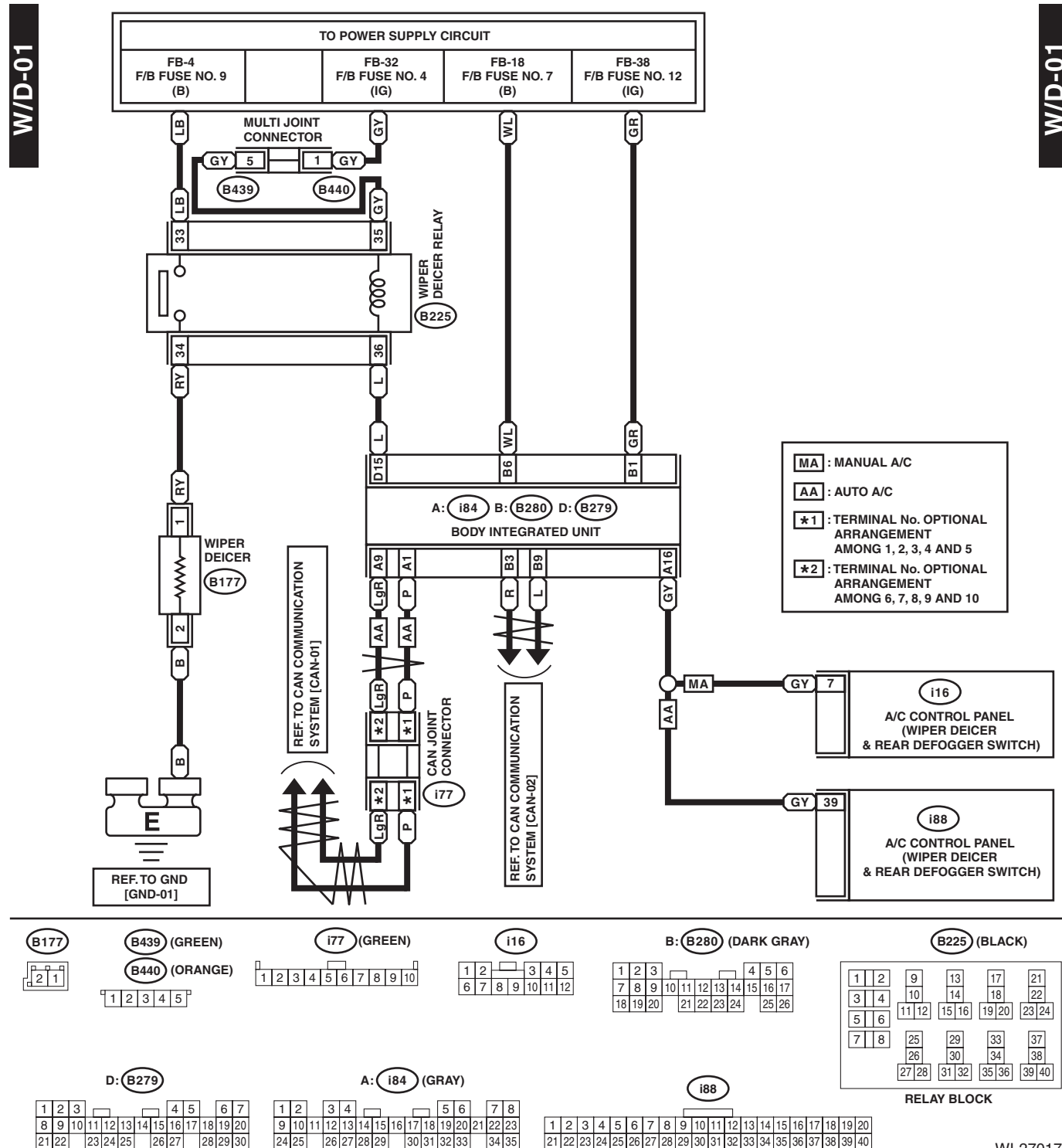


WIRING SYSTEM



27. Wiper Deicer System

A: WIRING DIAGRAM

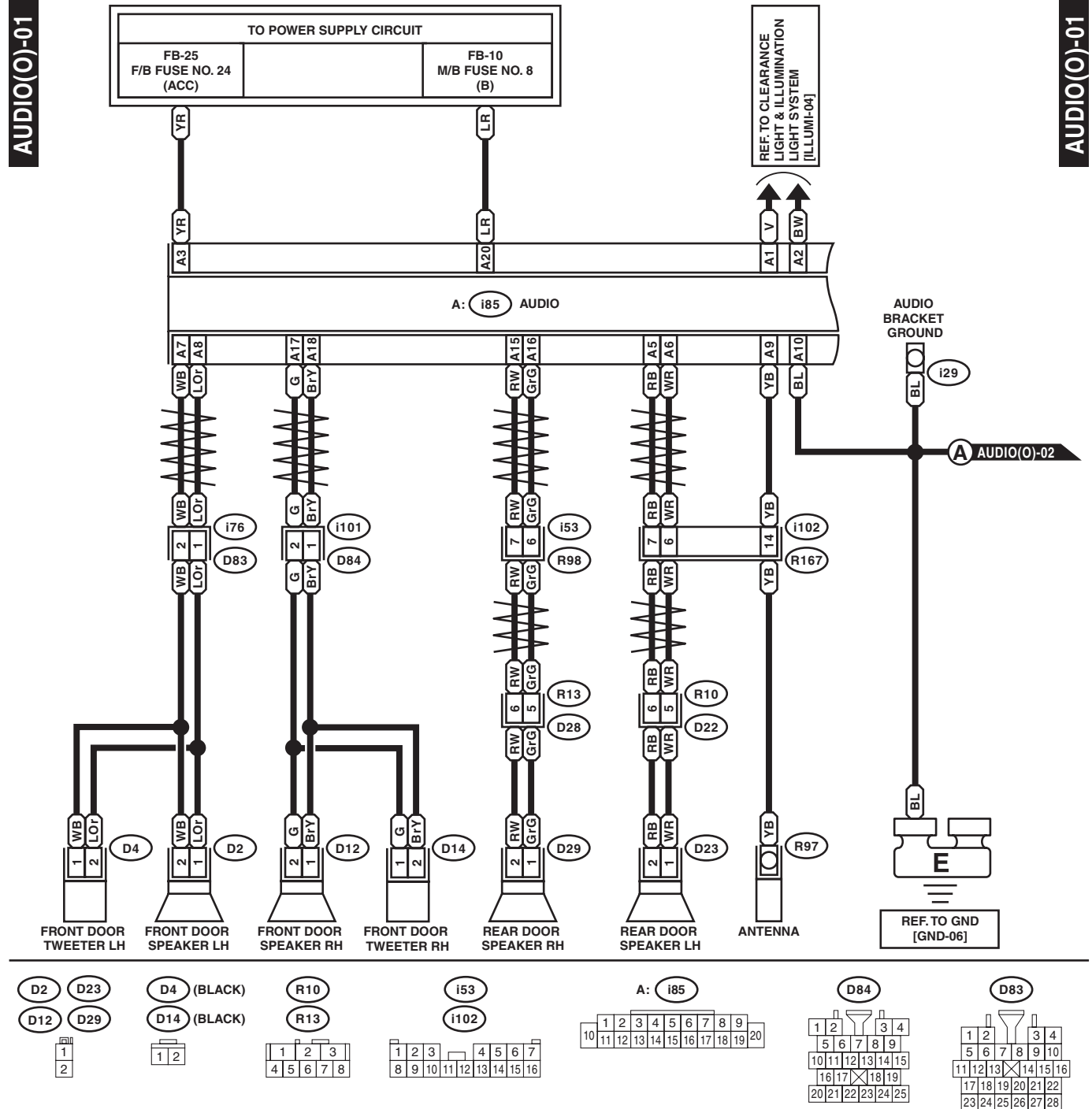


28.Audio System

A: WIRING DIAGRAM

1. WITHOUT HANDSFREE MICROPHONE

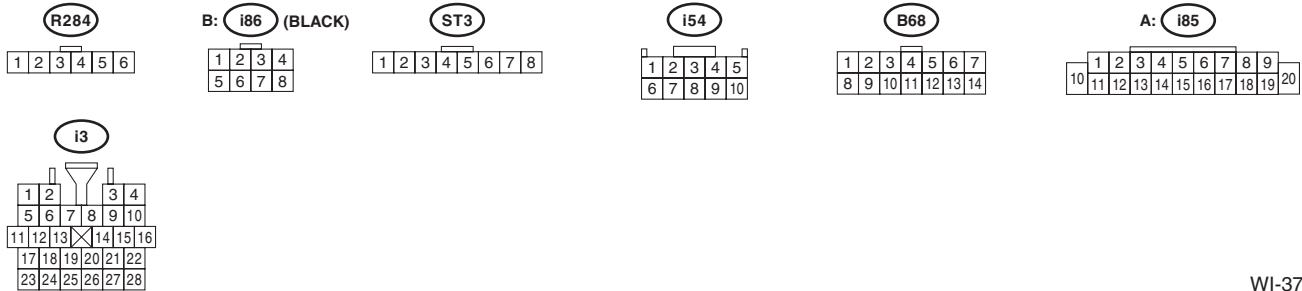
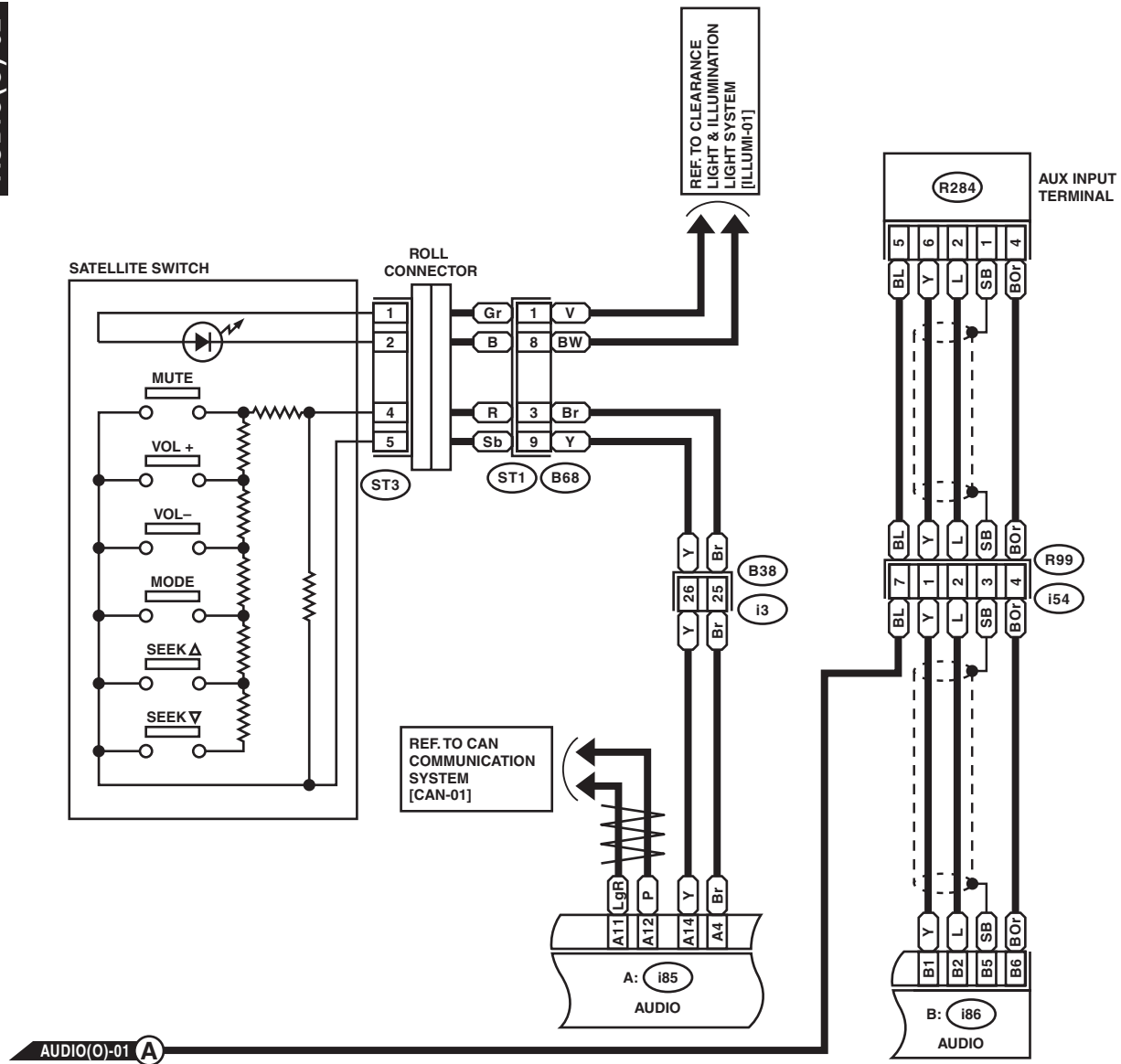
- Without SI-DRIVE



WI-37582

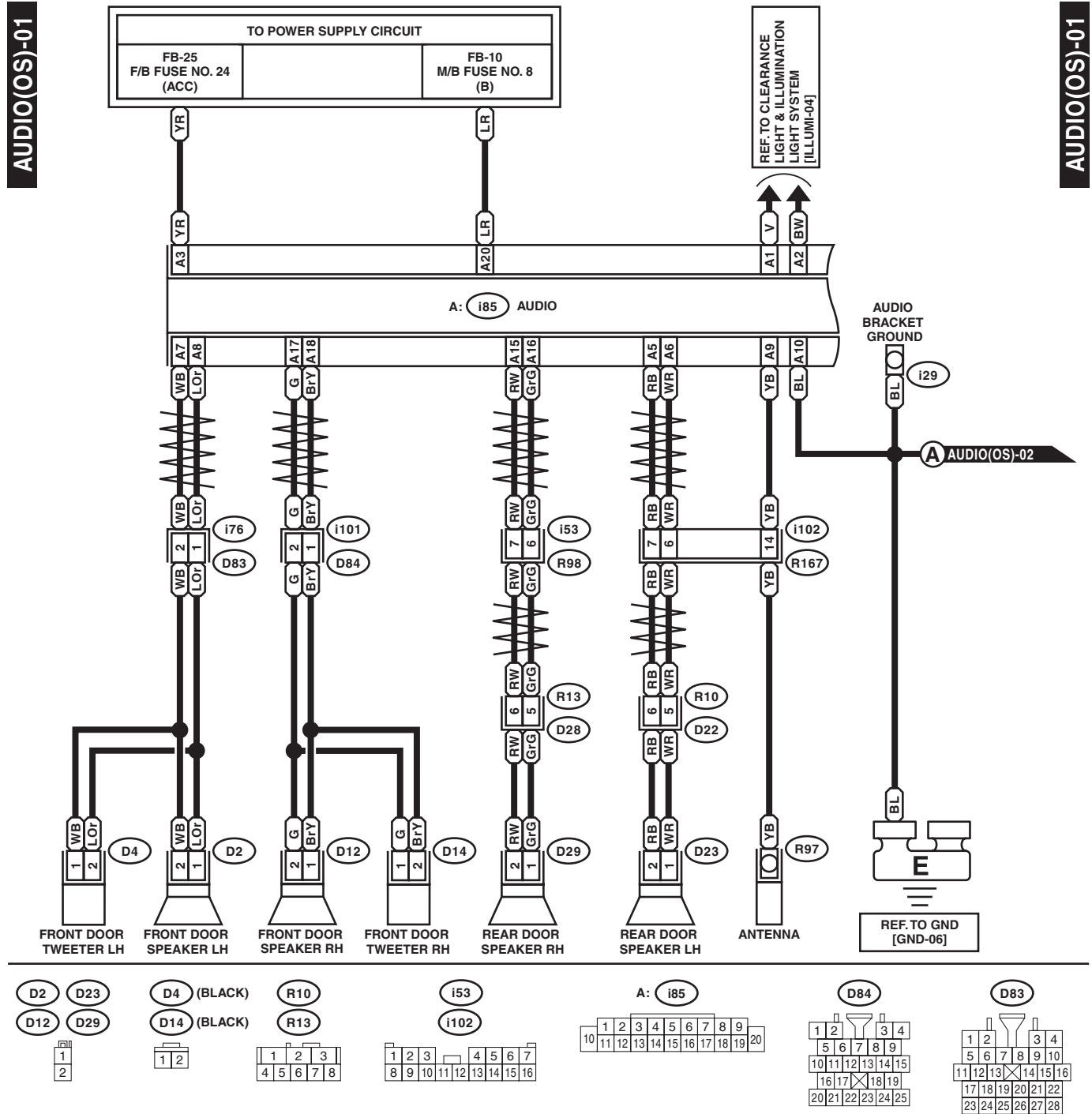
AUDIO(0)-02

AUDIO(O)-02



WI-37583

• With SI-DRIVE

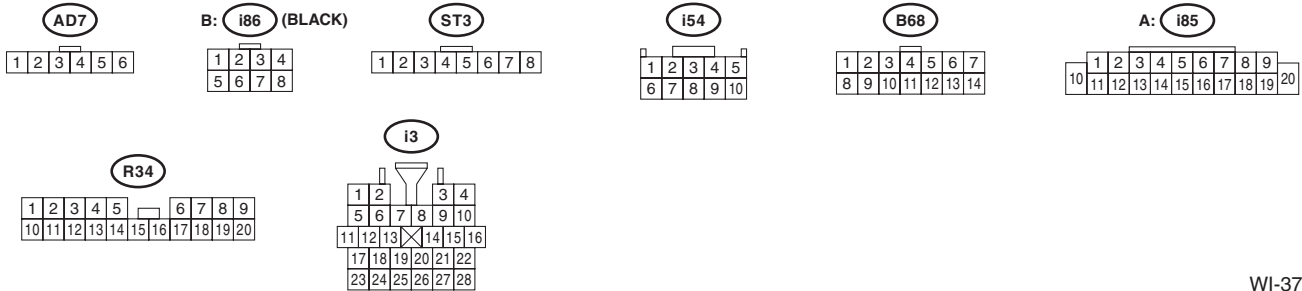


WI-37584

WIRING SYSTEM

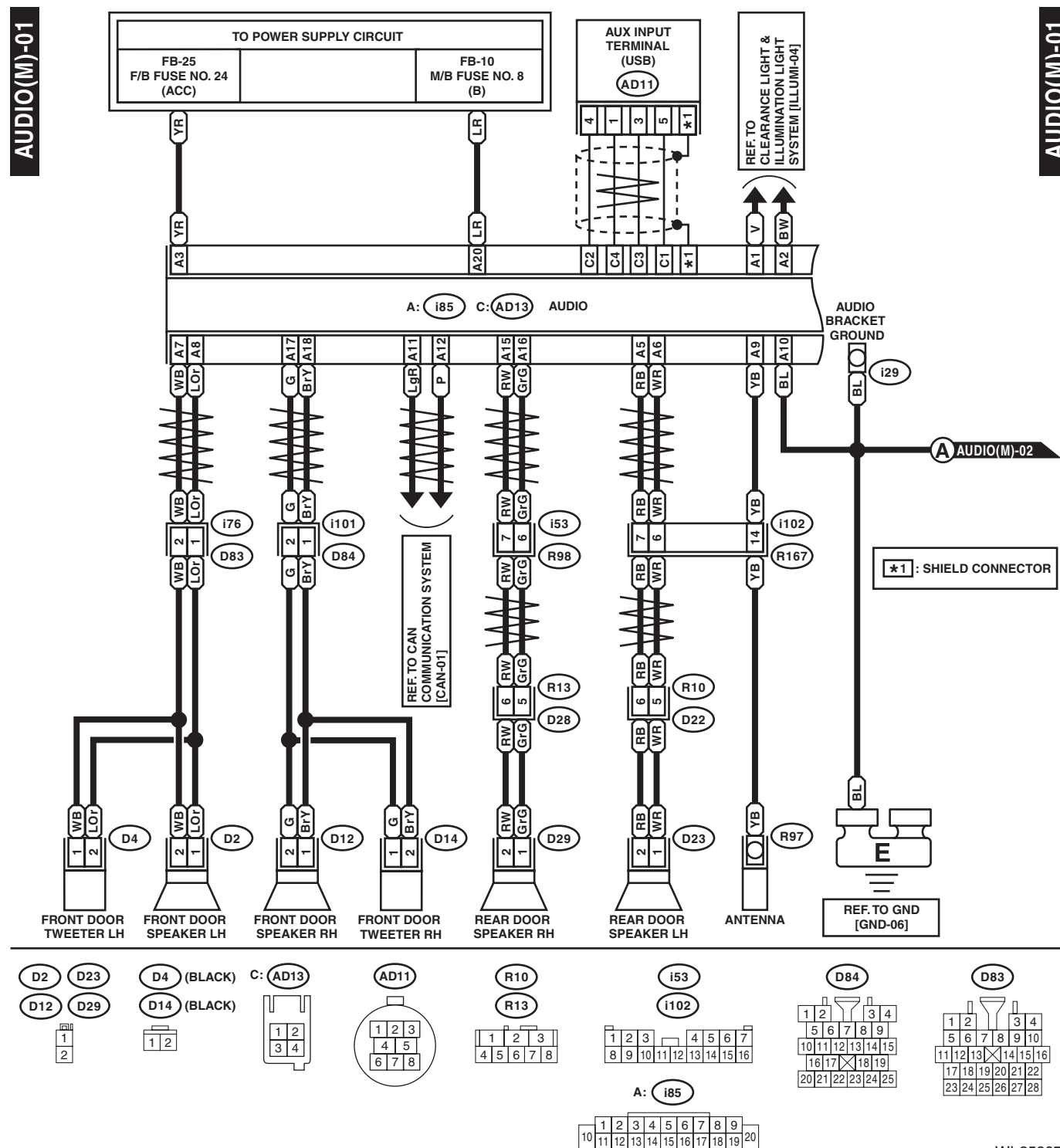
AUDIO(OS)-02

AUDIO(OS)-02

**WI-116**

2. WITH HANDSFREE MICROPHONE

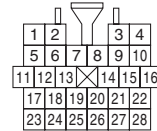
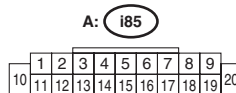
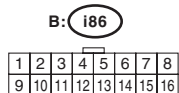
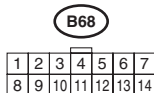
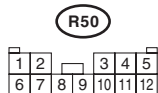
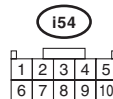
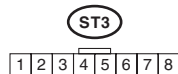
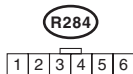
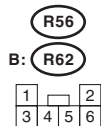
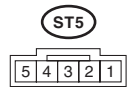
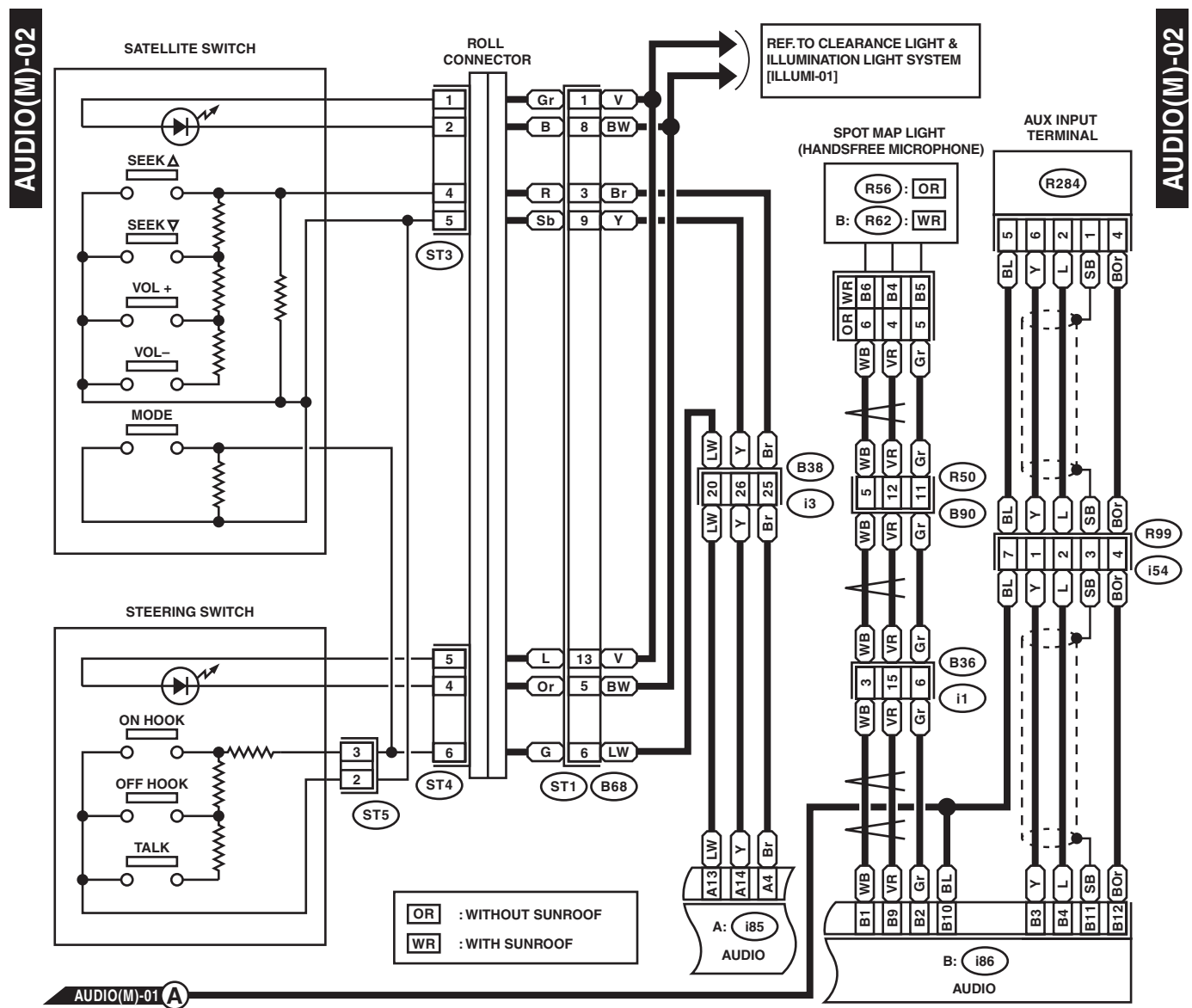
• Without SI-DRIVE



WI-35297

Audio System

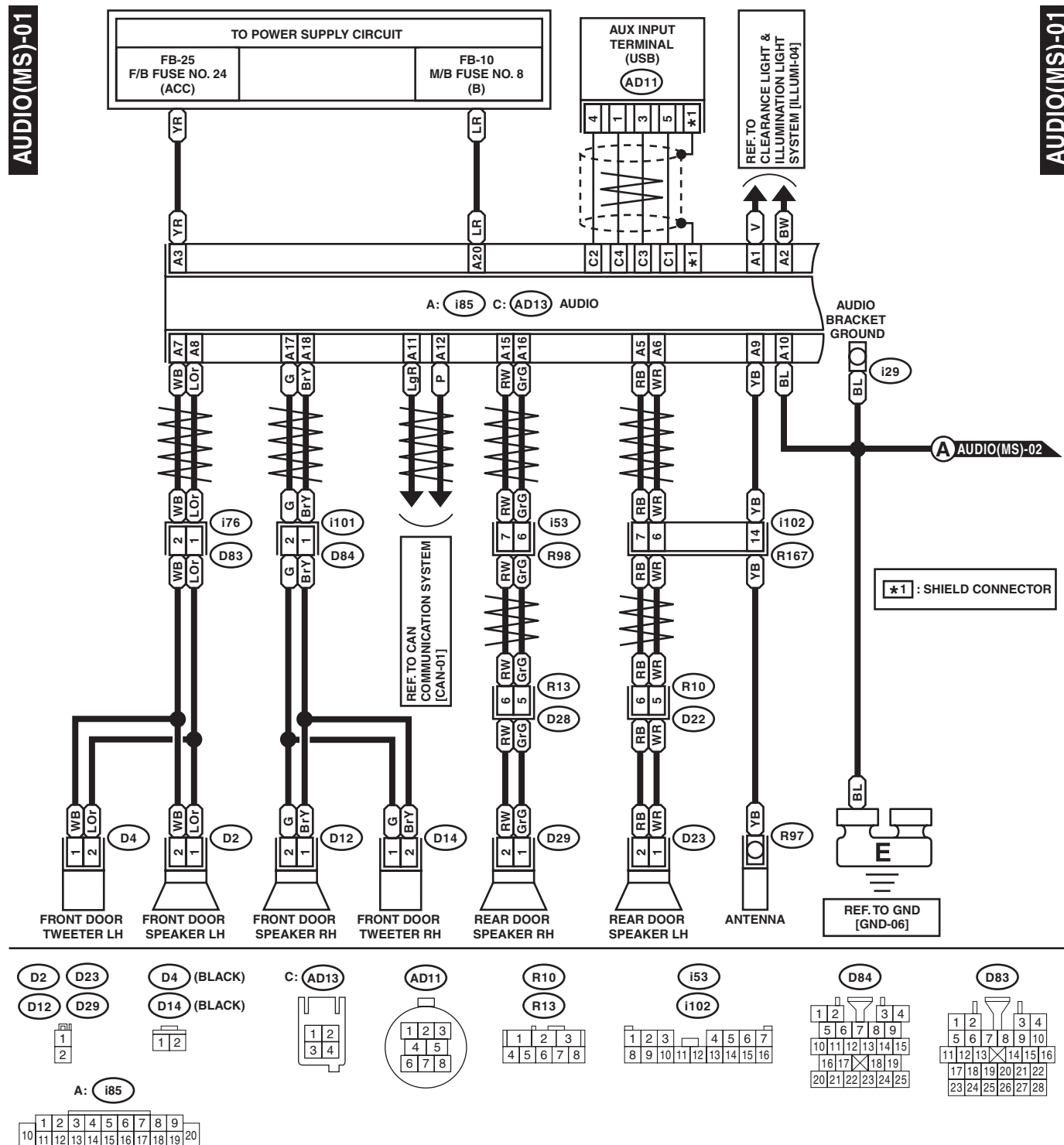
WIRING SYSTEM



Audio System

WIRING SYSTEM

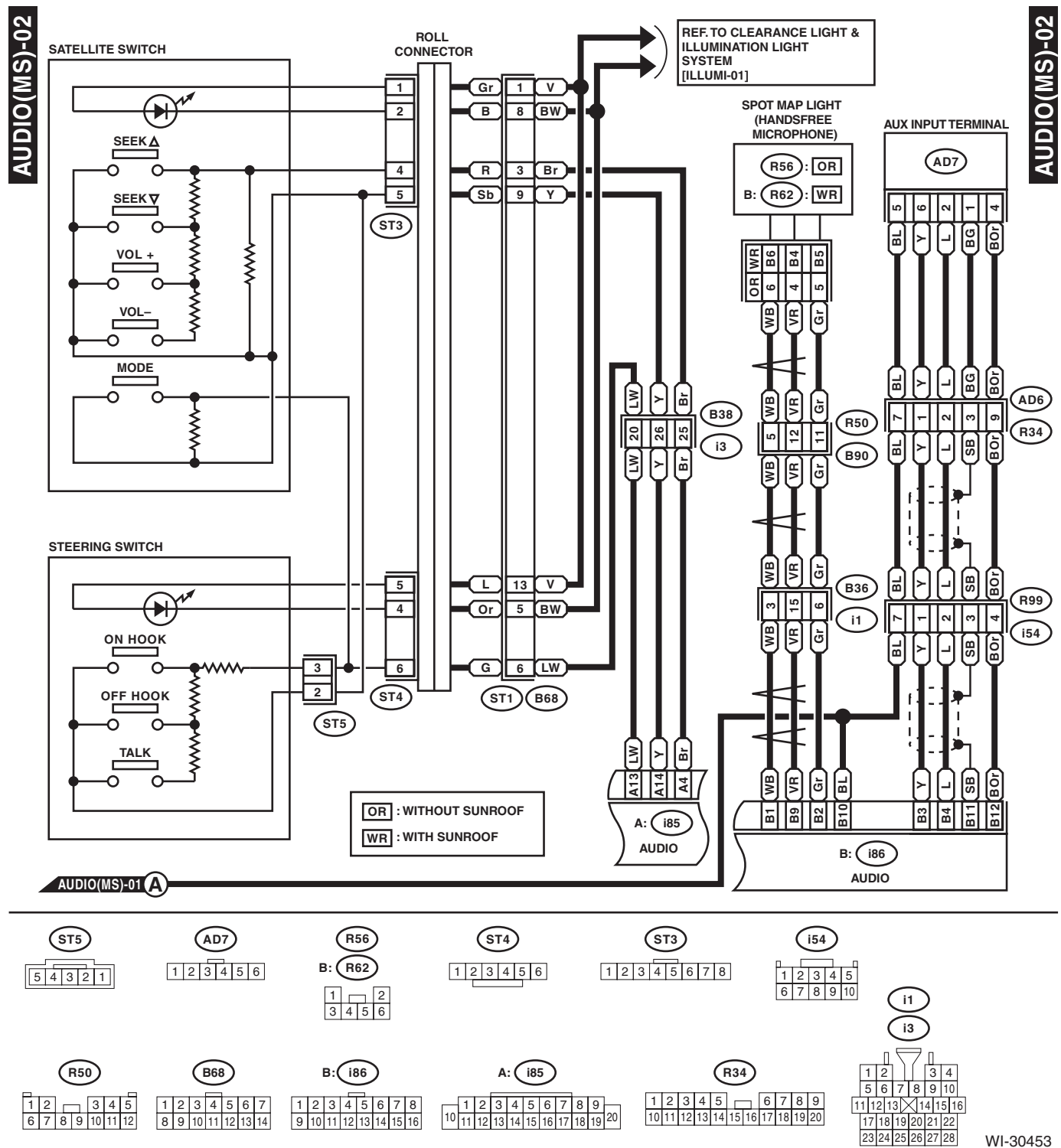
• With SI-DRIVE



WI-35298

Audio System

WIRING SYSTEM

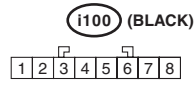
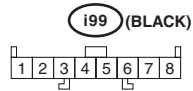
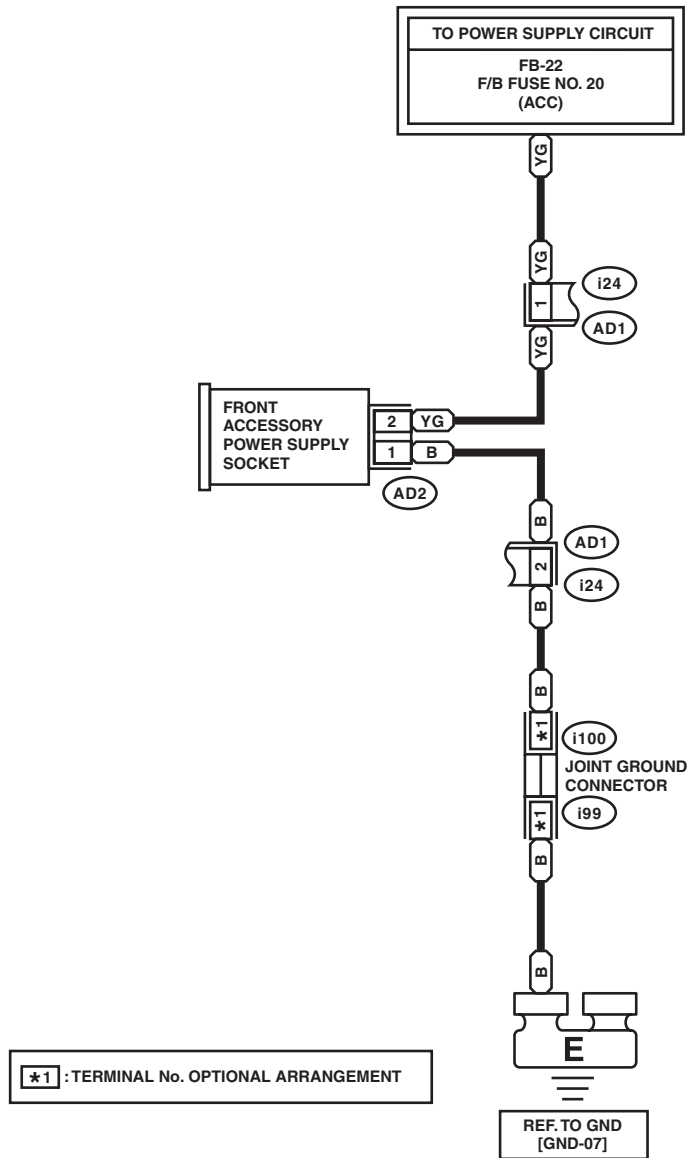


29.Front Accessory Power Supply Socket System

A: WIRING DIAGRAM

FAPS-01

FAPS-01



Rear Accessory Power Supply Socket System

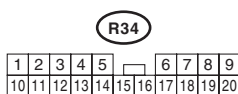
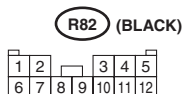
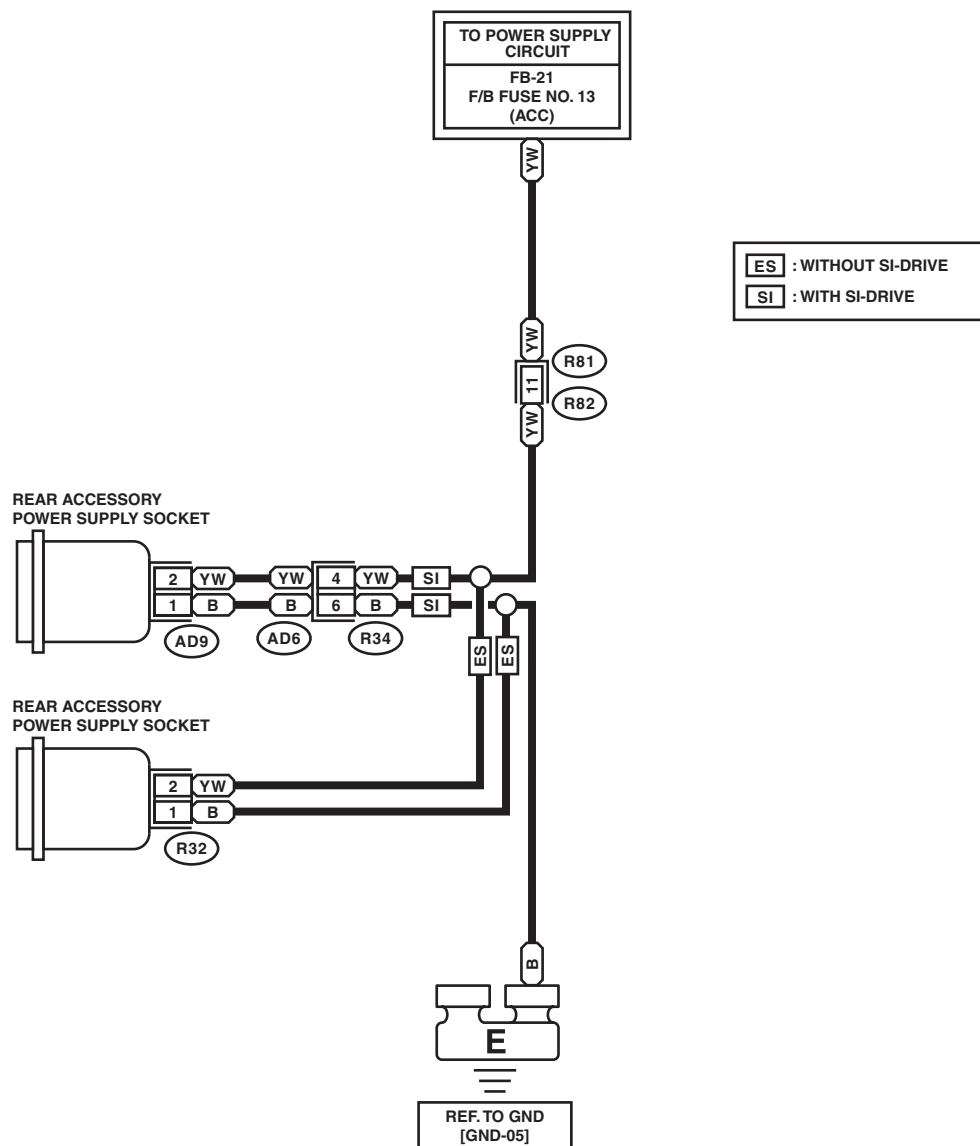
WIRING SYSTEM

30.Rear Accessory Power Supply Socket System

A: WIRING DIAGRAM

RAPS-01

RAPS-01

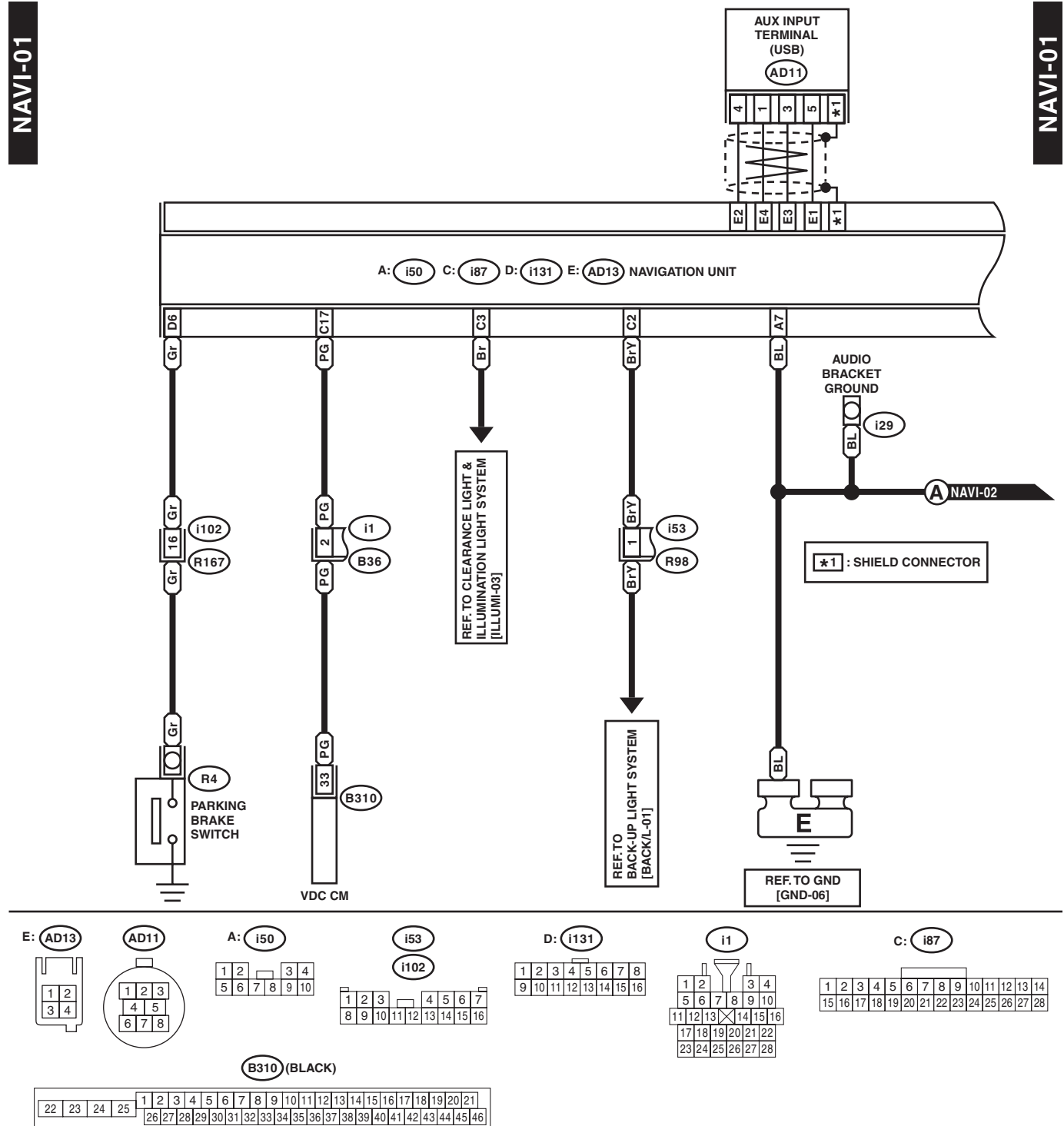


WI-30455

1. WITHOUT SI-DRIVE

NAVI-01

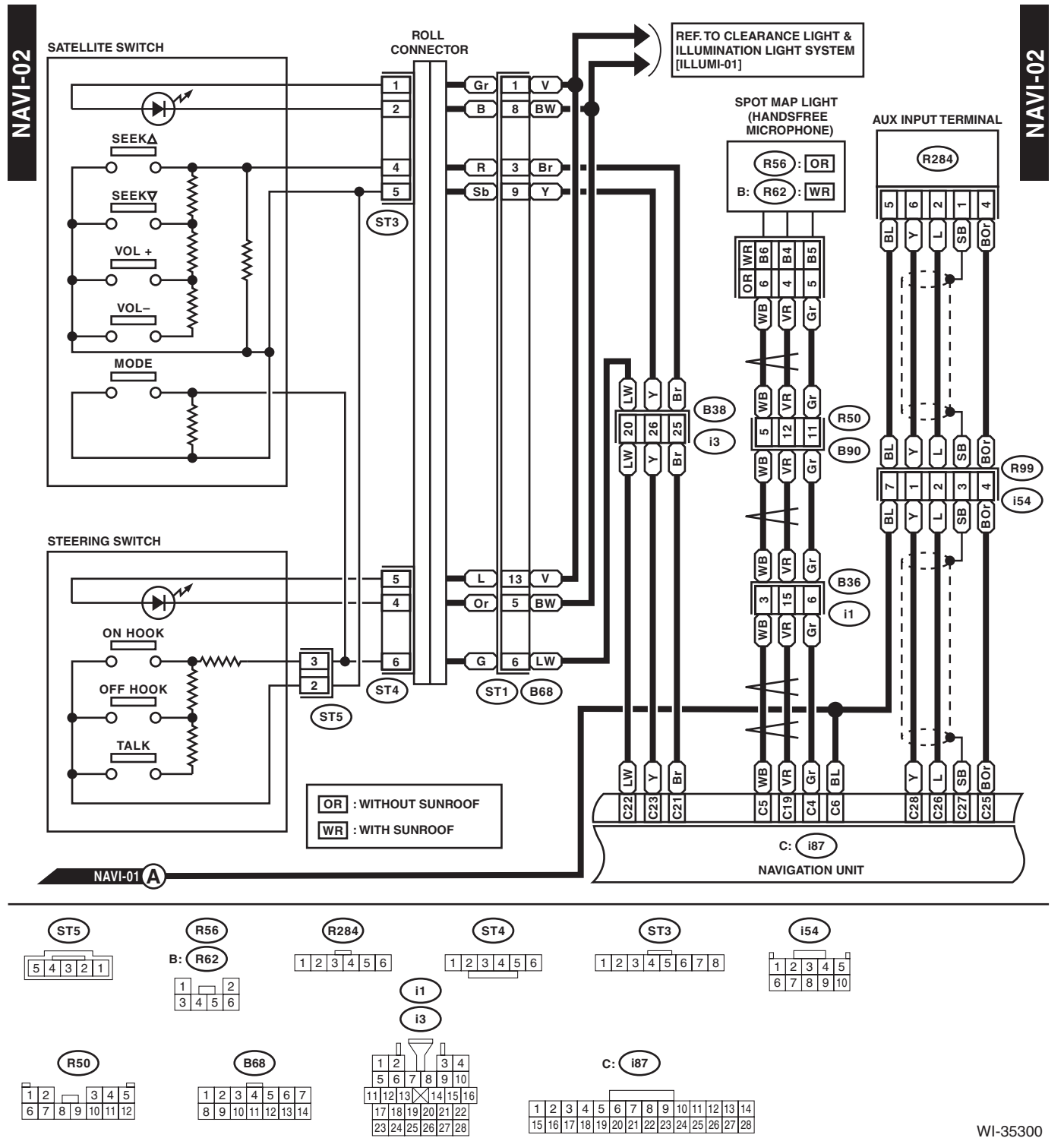
NAVI-01



WI-35299

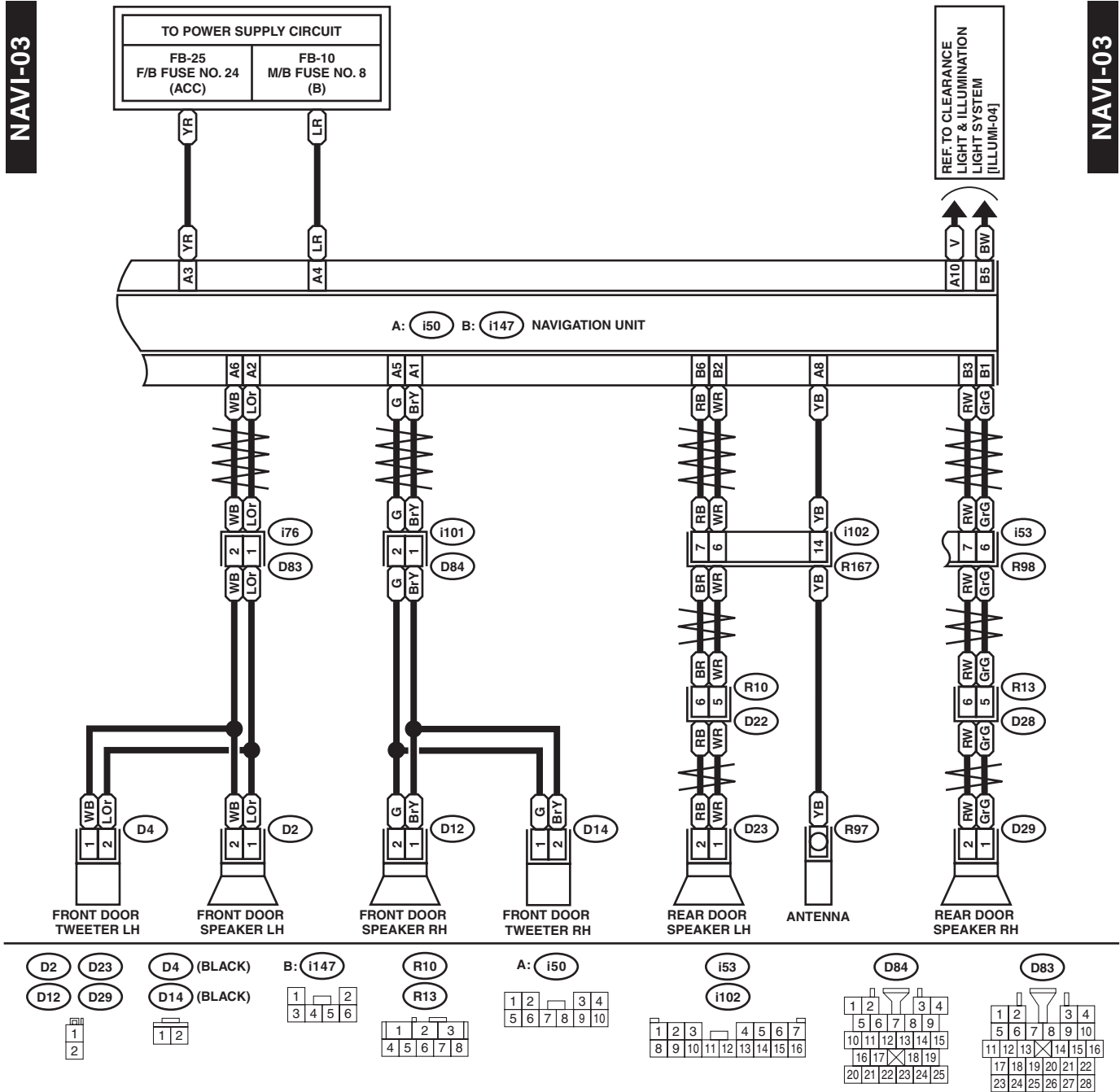
Navigation System

WIRING SYSTEM



NAVI-03

NAVI-03

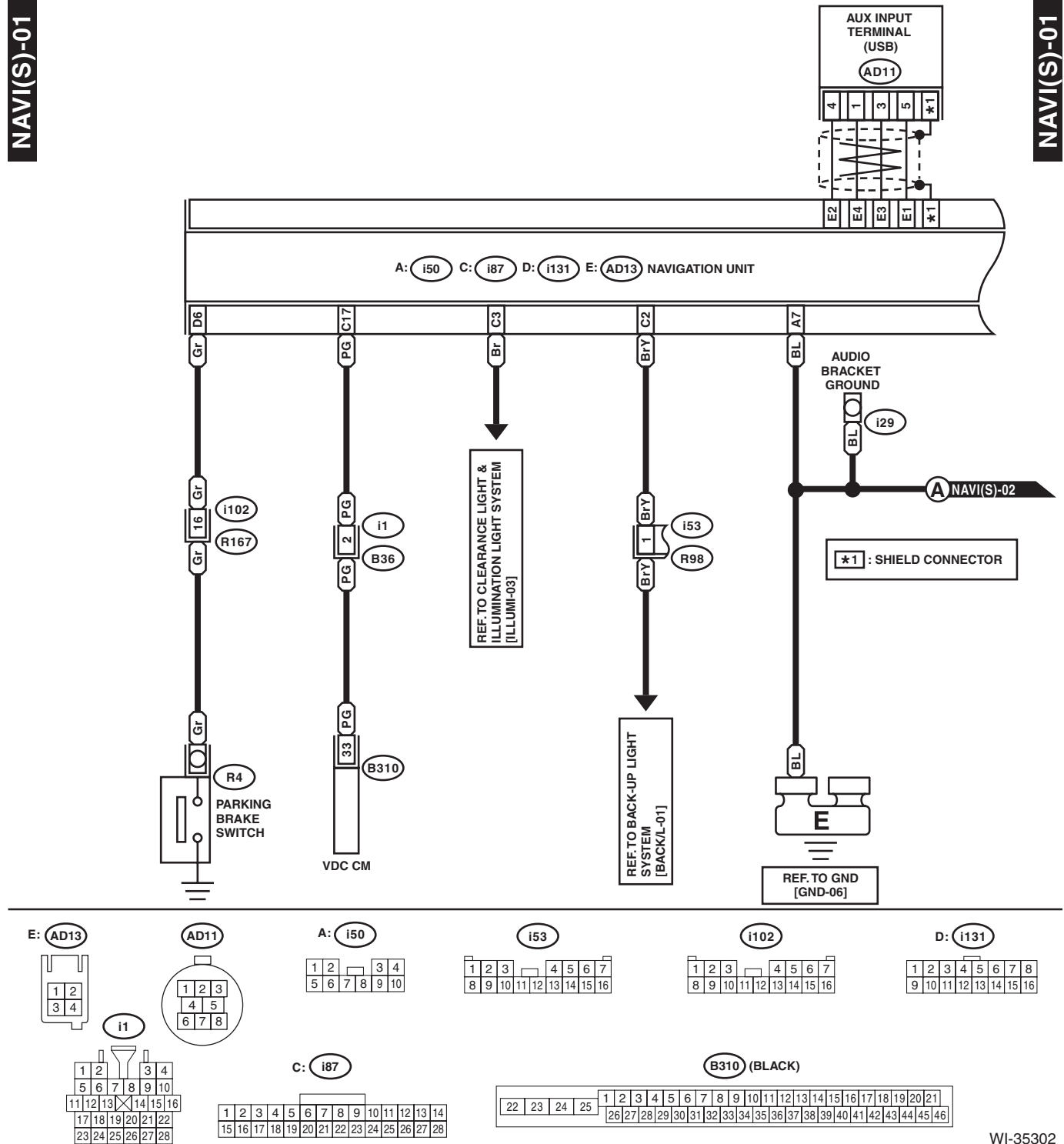


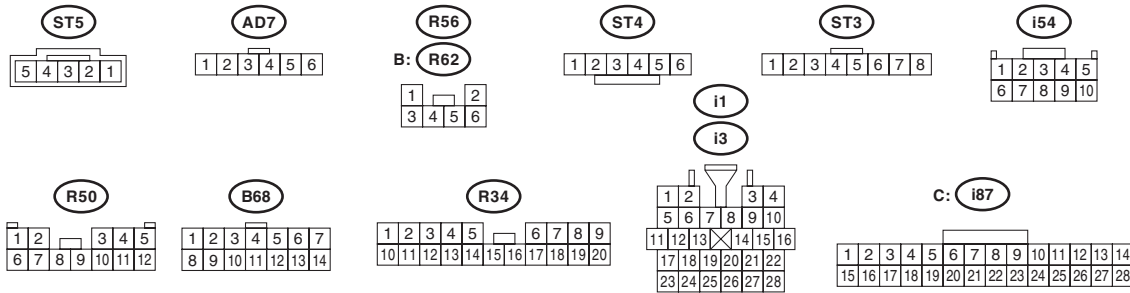
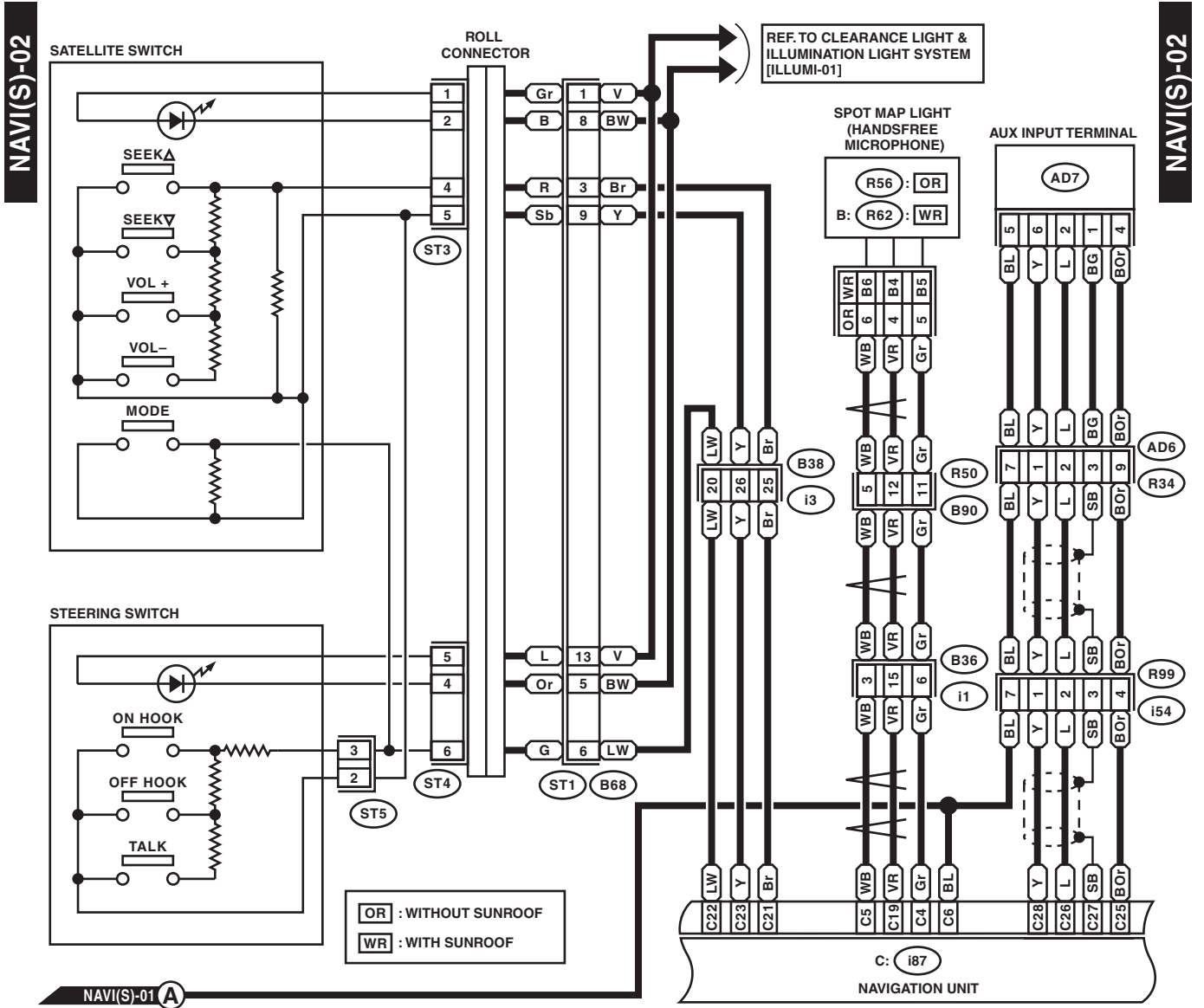
WI-35301

2. WITH SI-DRIVE

NAVI(S)-01

NAVI(S)-01

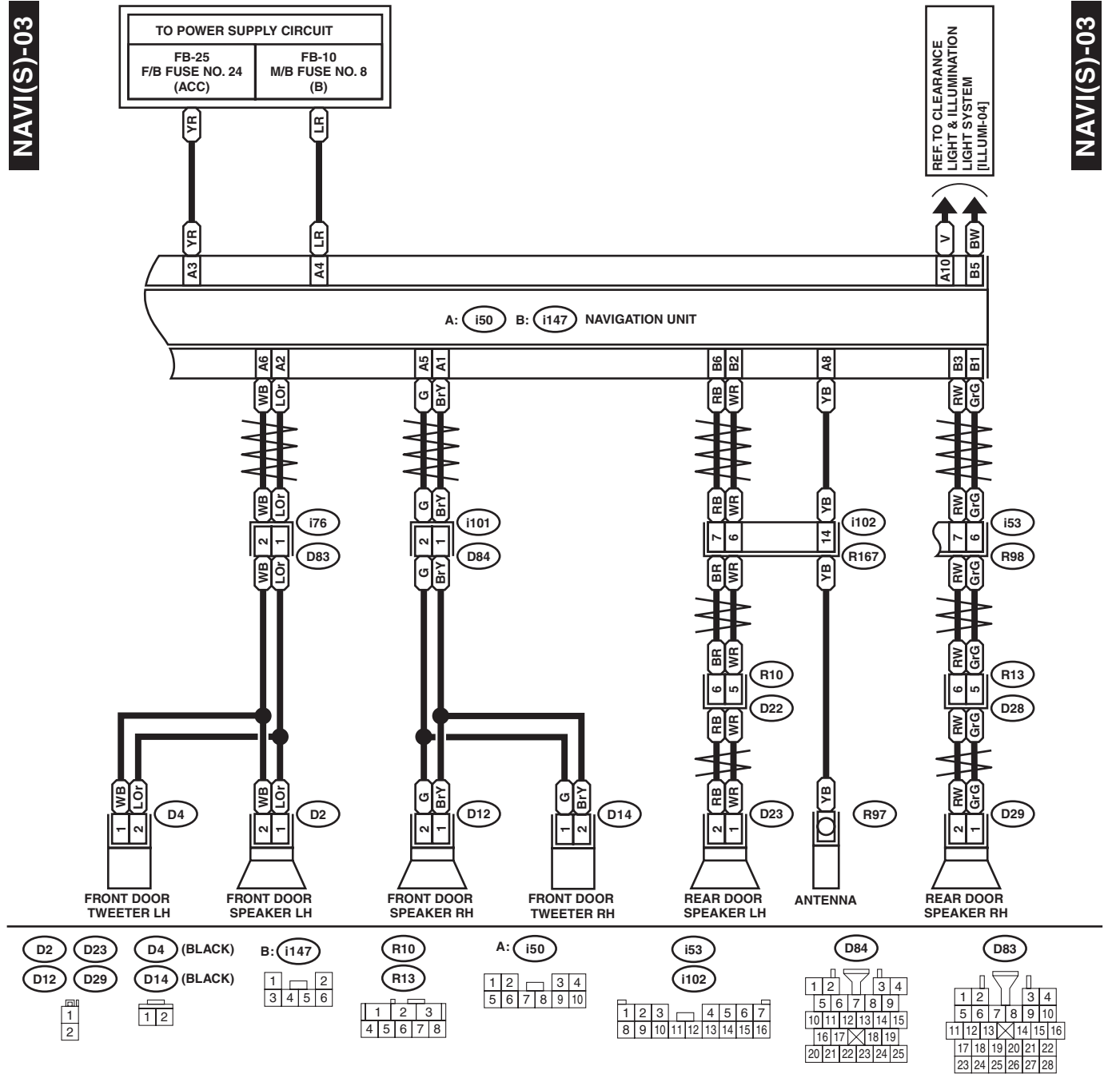




WI-35303

Navigation System

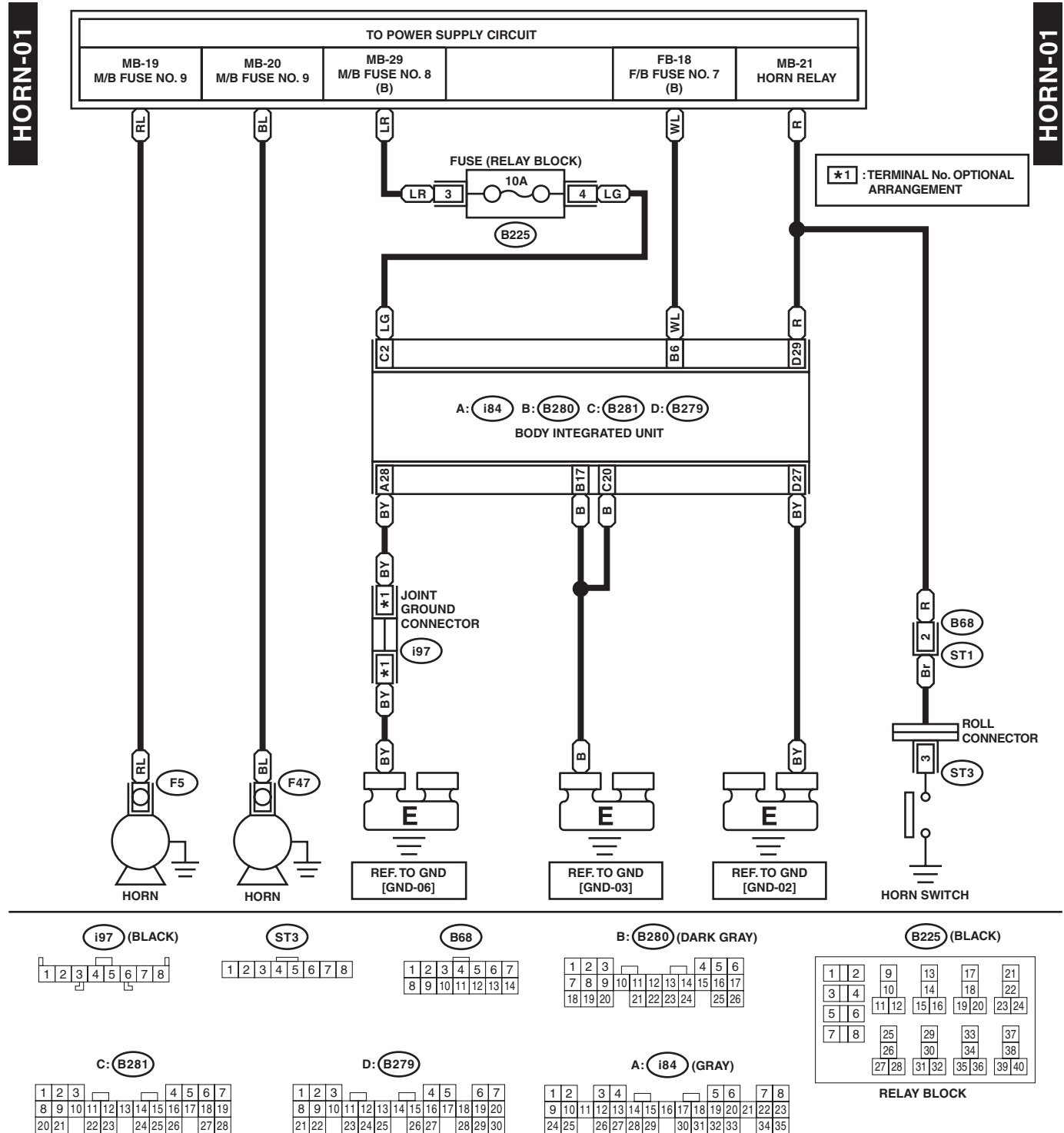
WIRING SYSTEM



WI-35304

32.Horn System

A: WIRING DIAGRAM



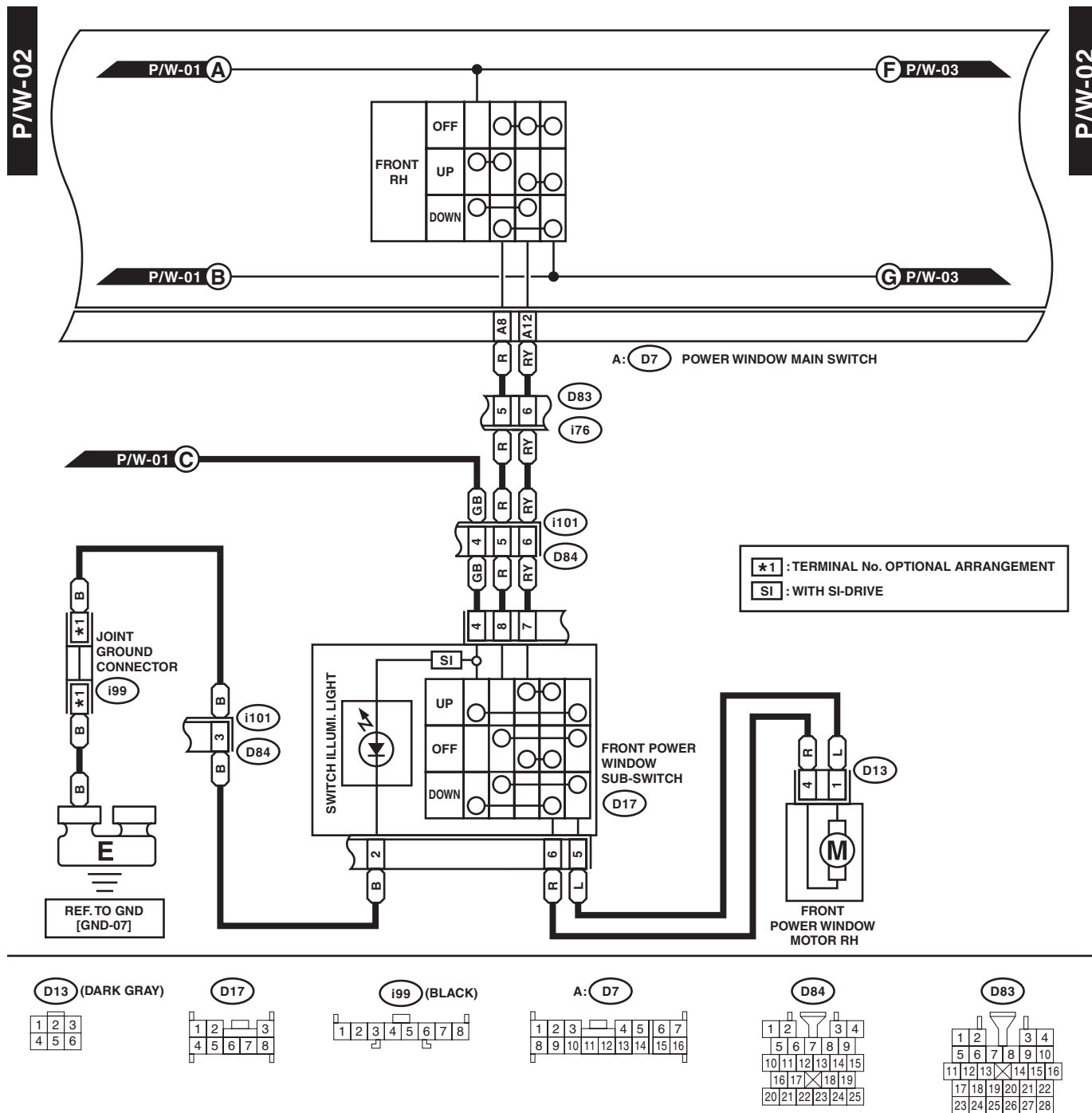
WI-30459

A: WIRING DIAGRAM



Power Window System

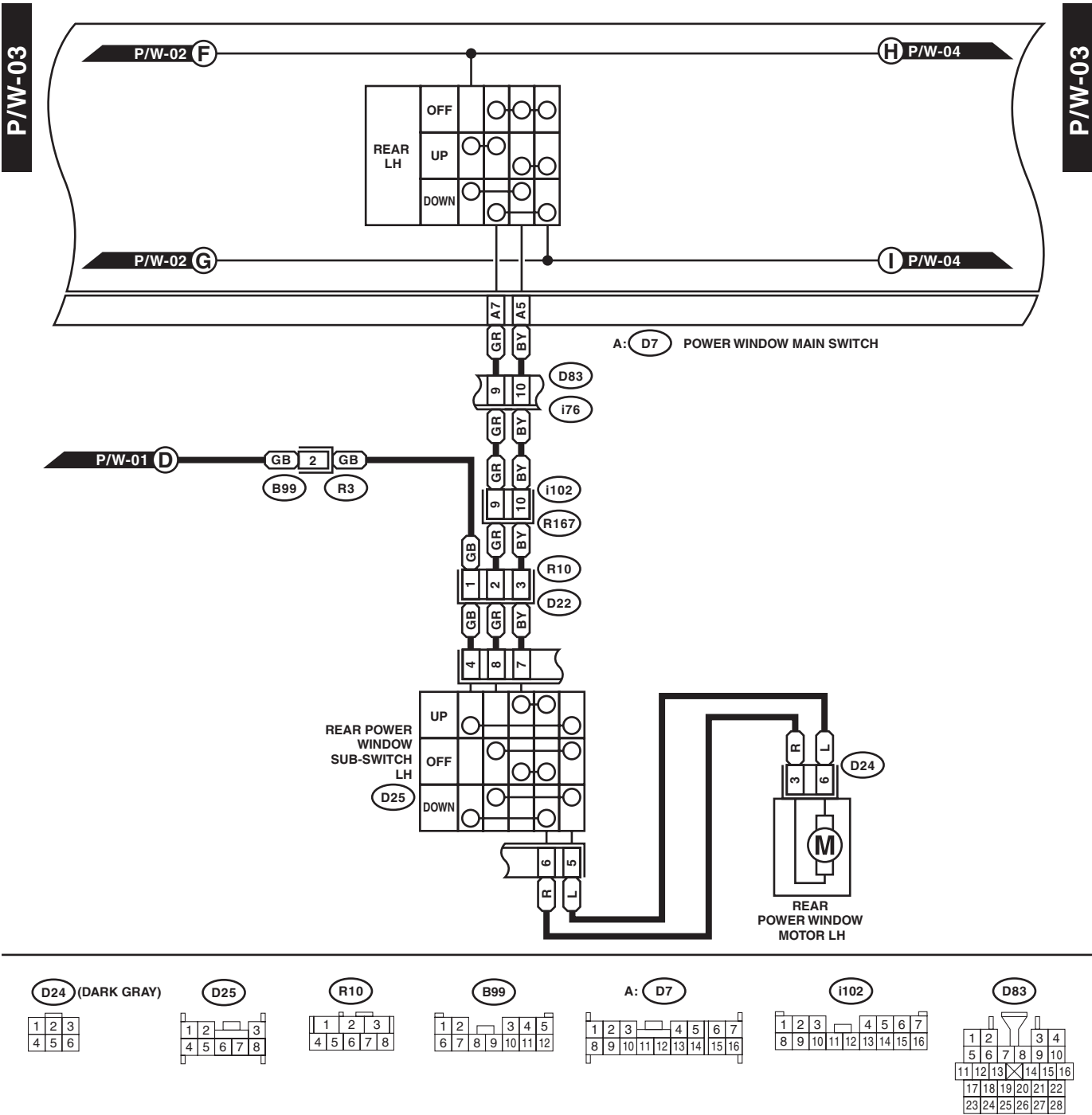
WIRING SYSTEM



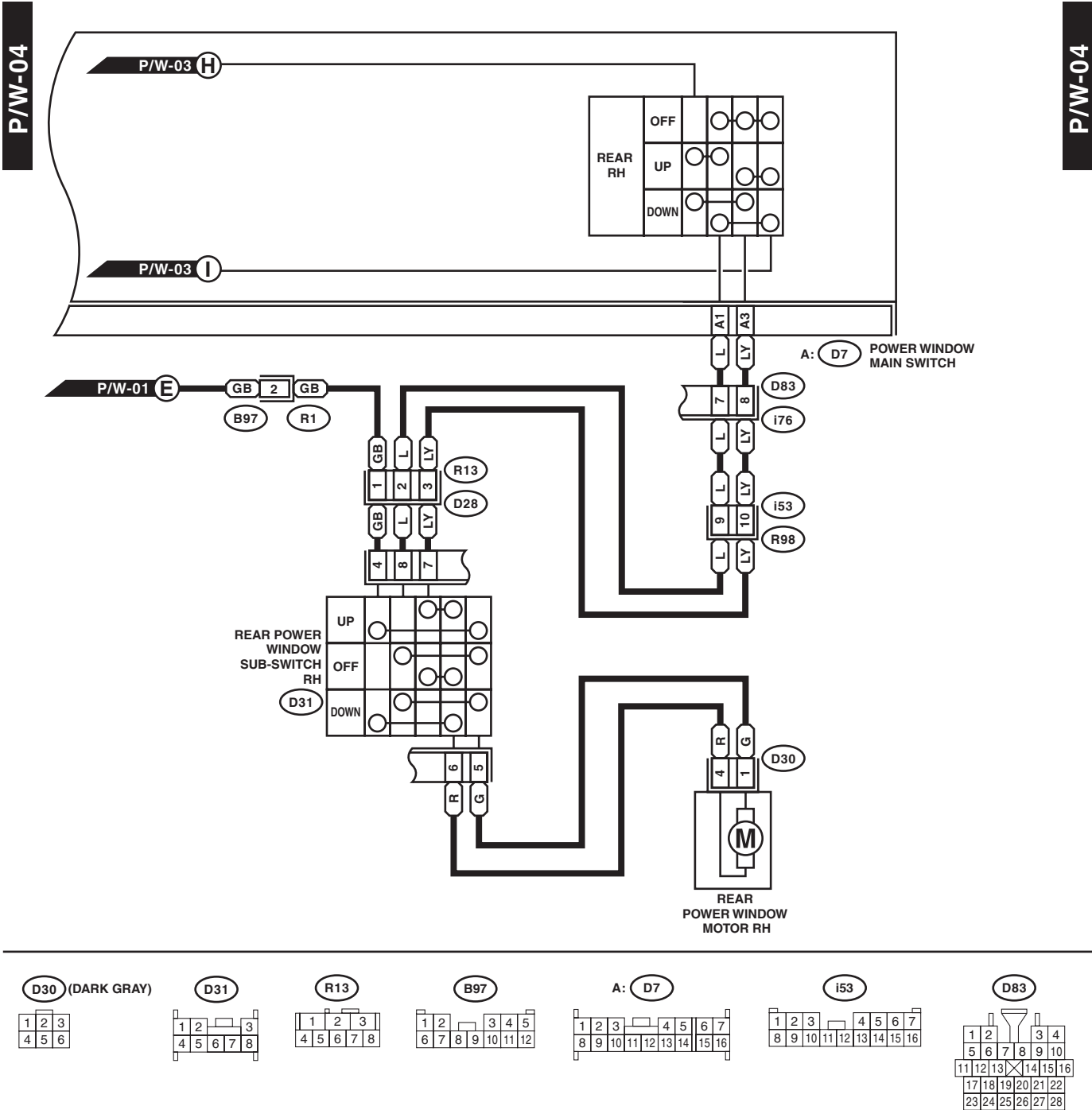
WI-37587

Power Window System

WIRING SYSTEM



WI-37588



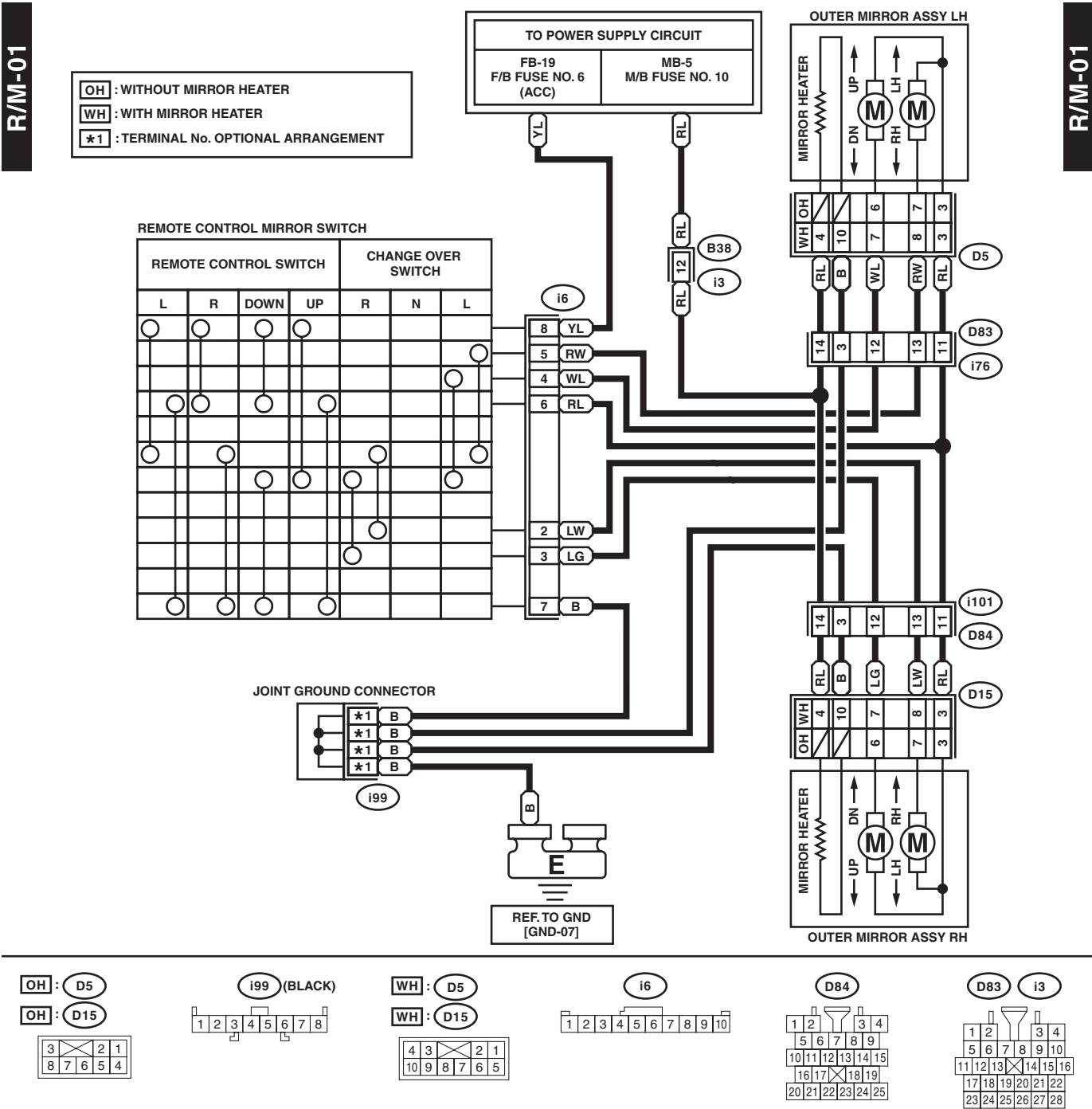
WI-37589

Remote Control Mirror System

WIRING SYSTEM

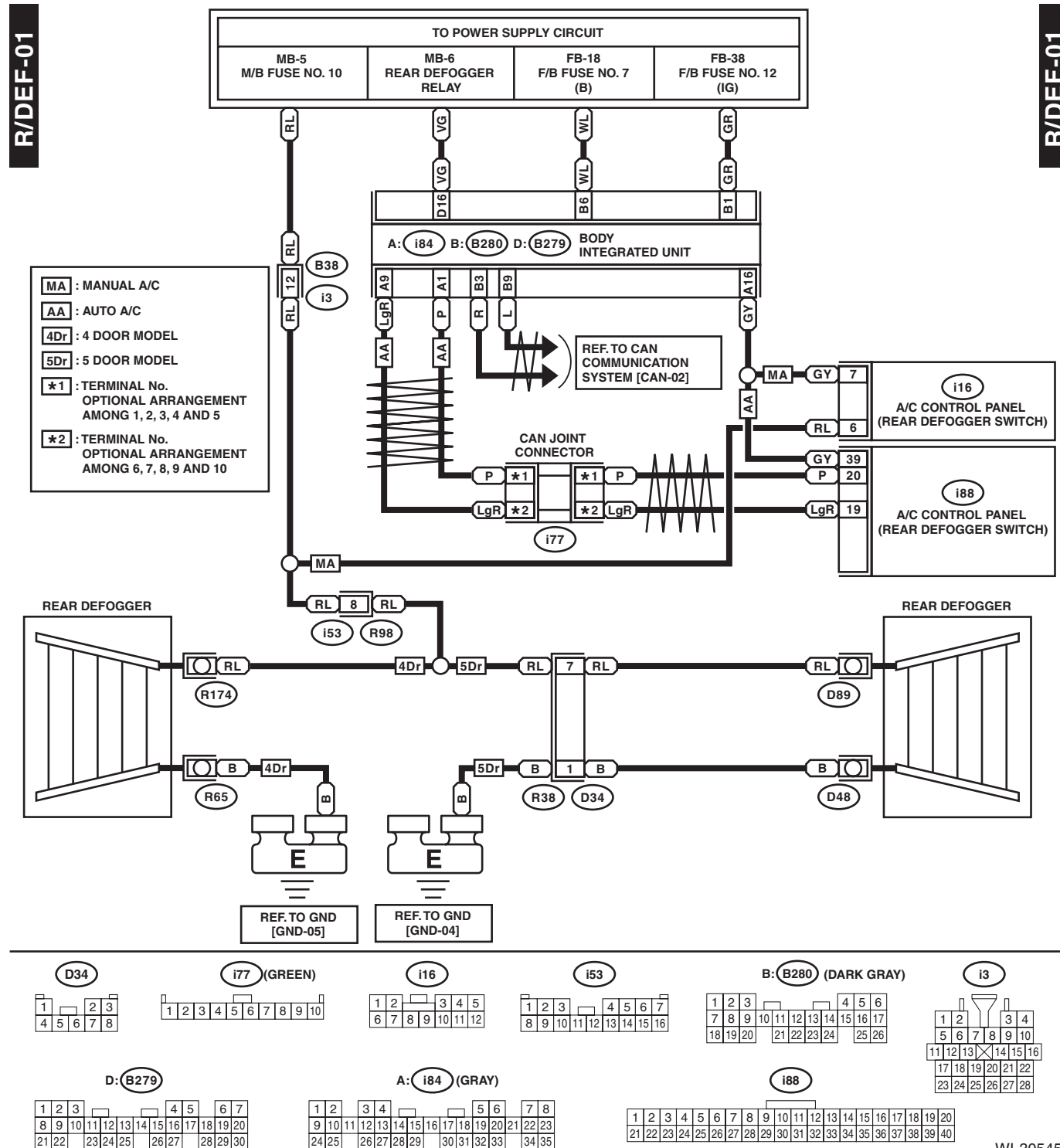
34.Remote Control Mirror System

A: WIRING DIAGRAM



35.Rear Defogger System

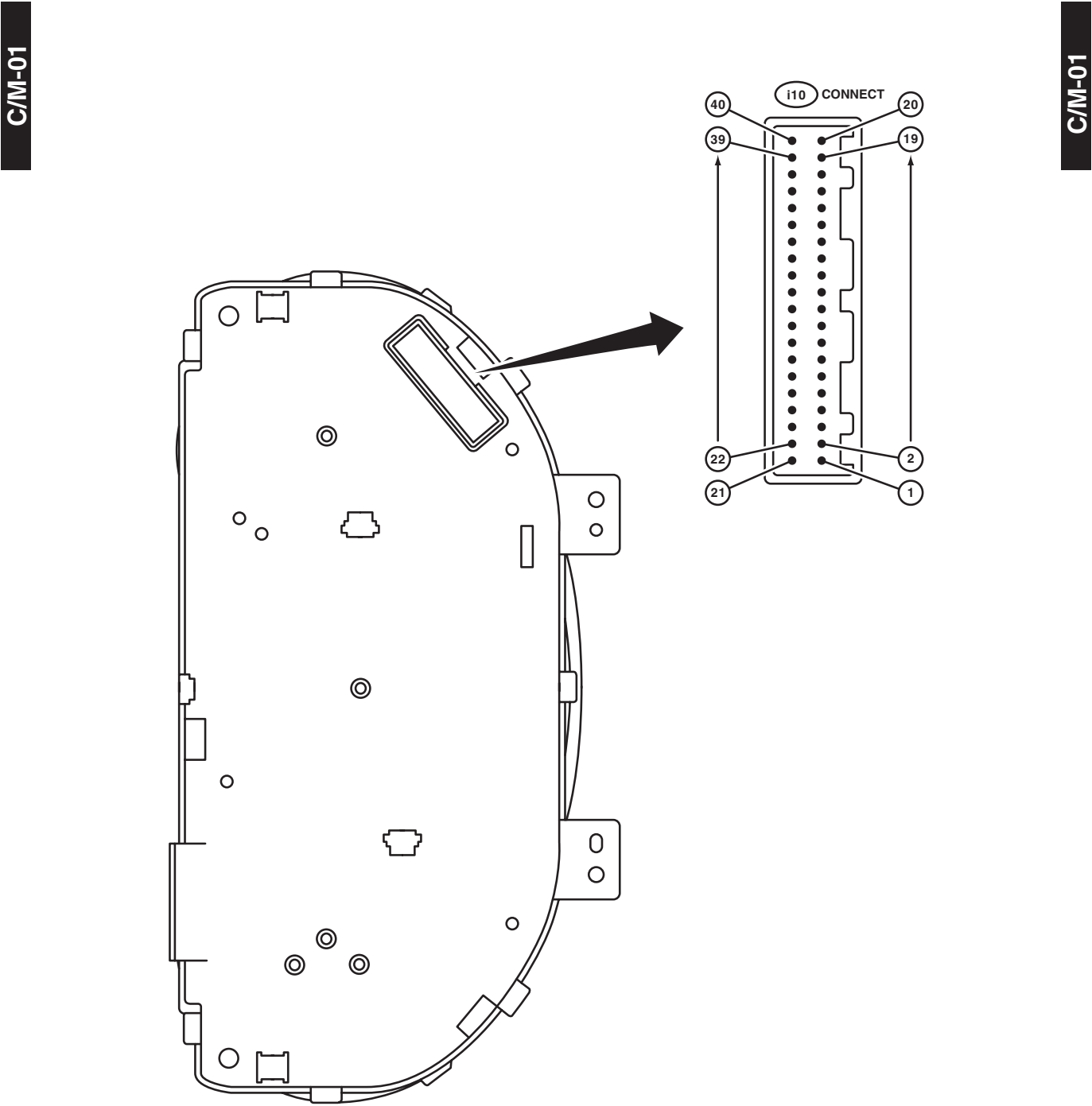
A: WIRING DIAGRAM

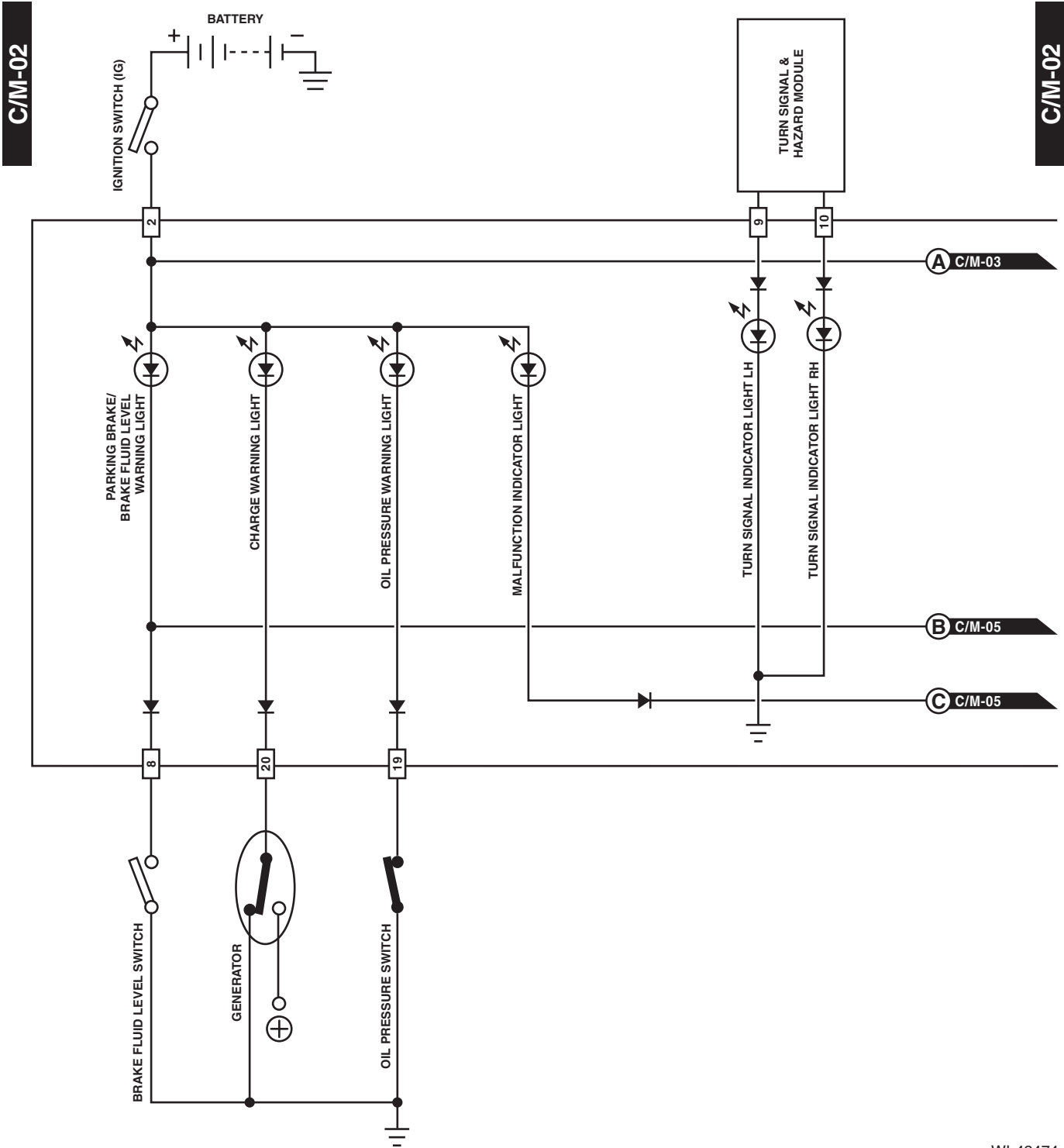


36.Combination Meter System

A: WIRING DIAGRAM

1. WITHOUT SI-DRIVE

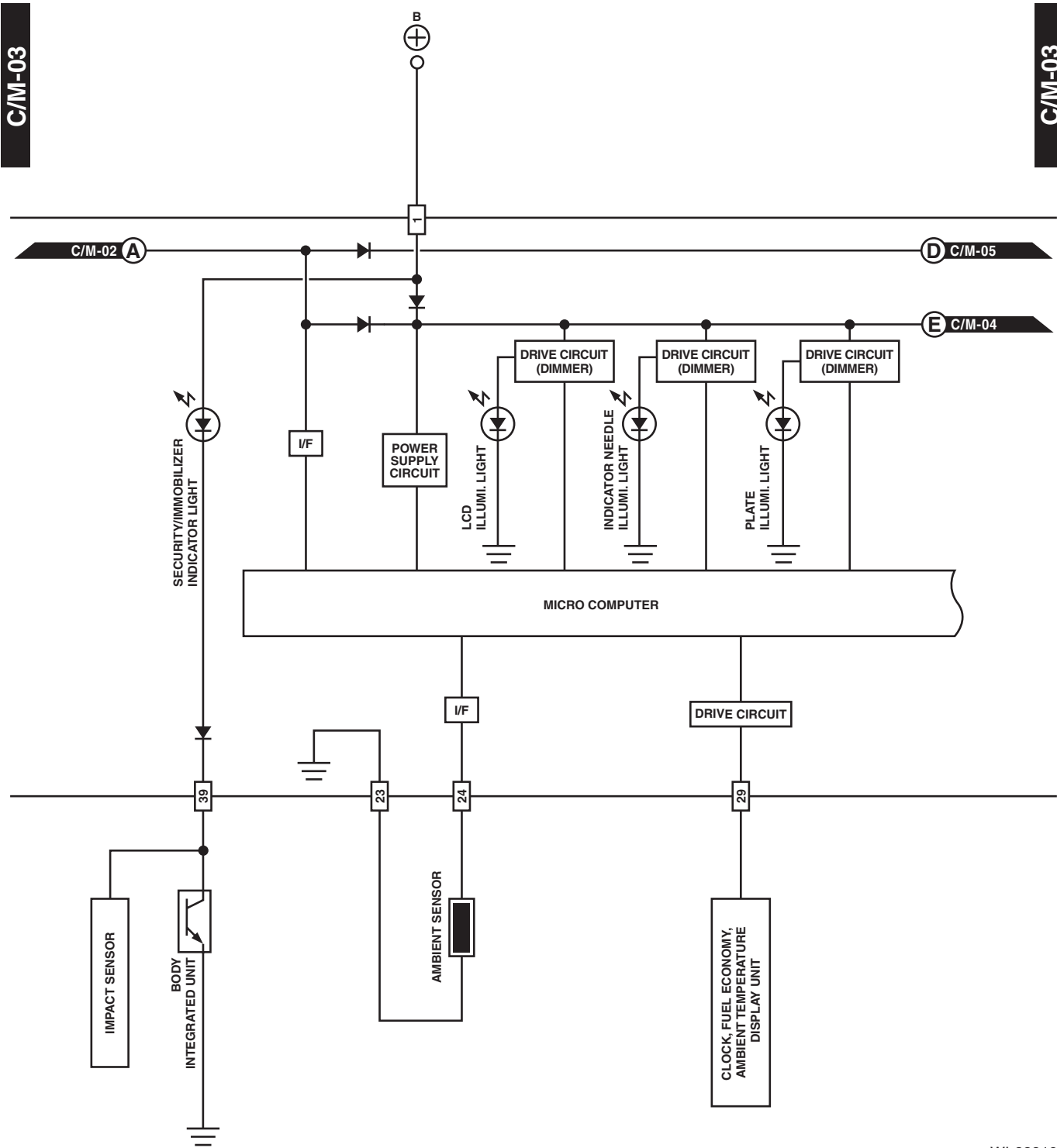




WI-42474

Combination Meter System

WIRING SYSTEM



WI-33819

C/M-04

C/M-04

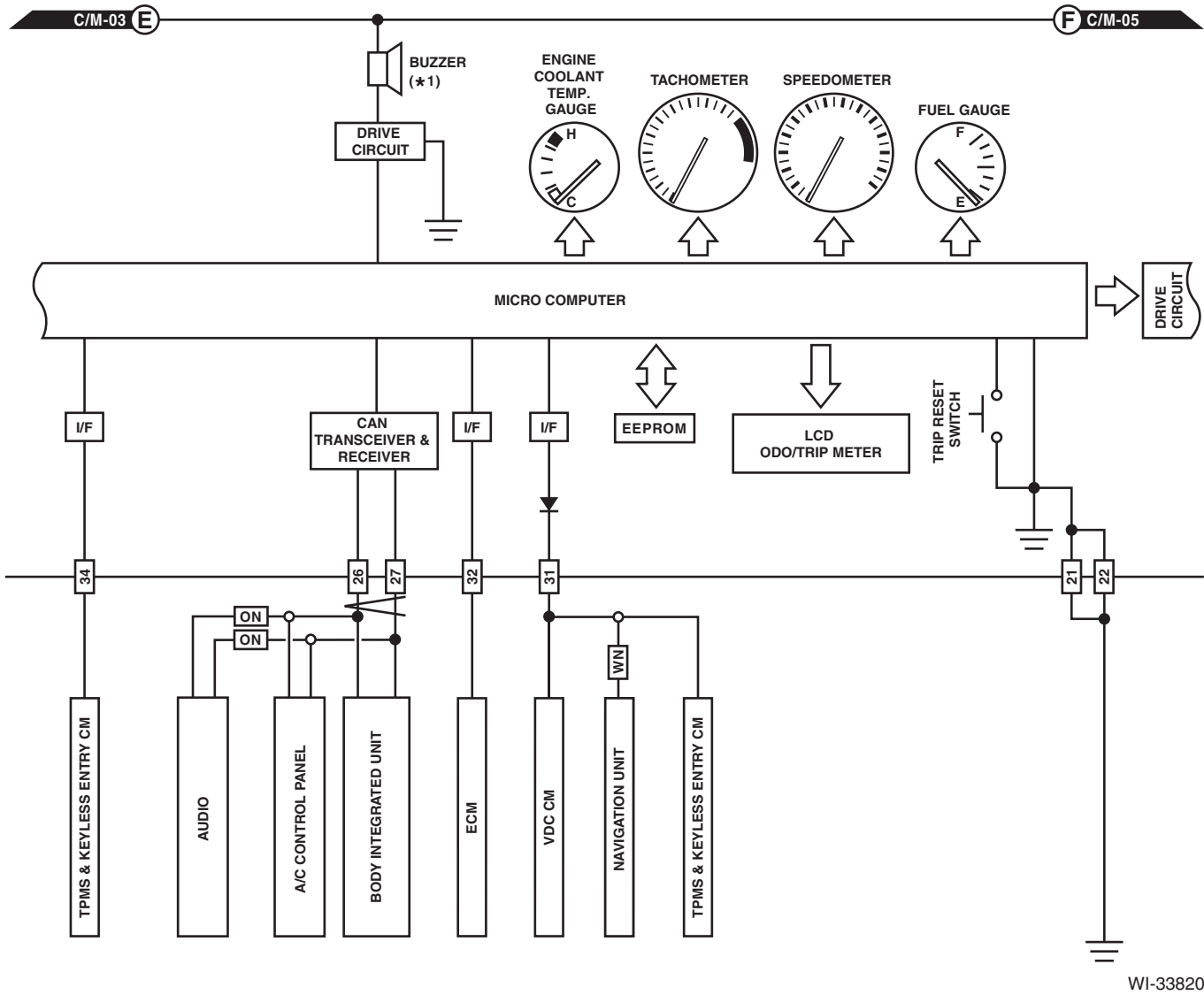
ON

: WITHOUT NAVIGATION

WN

: WITH NAVIGATION

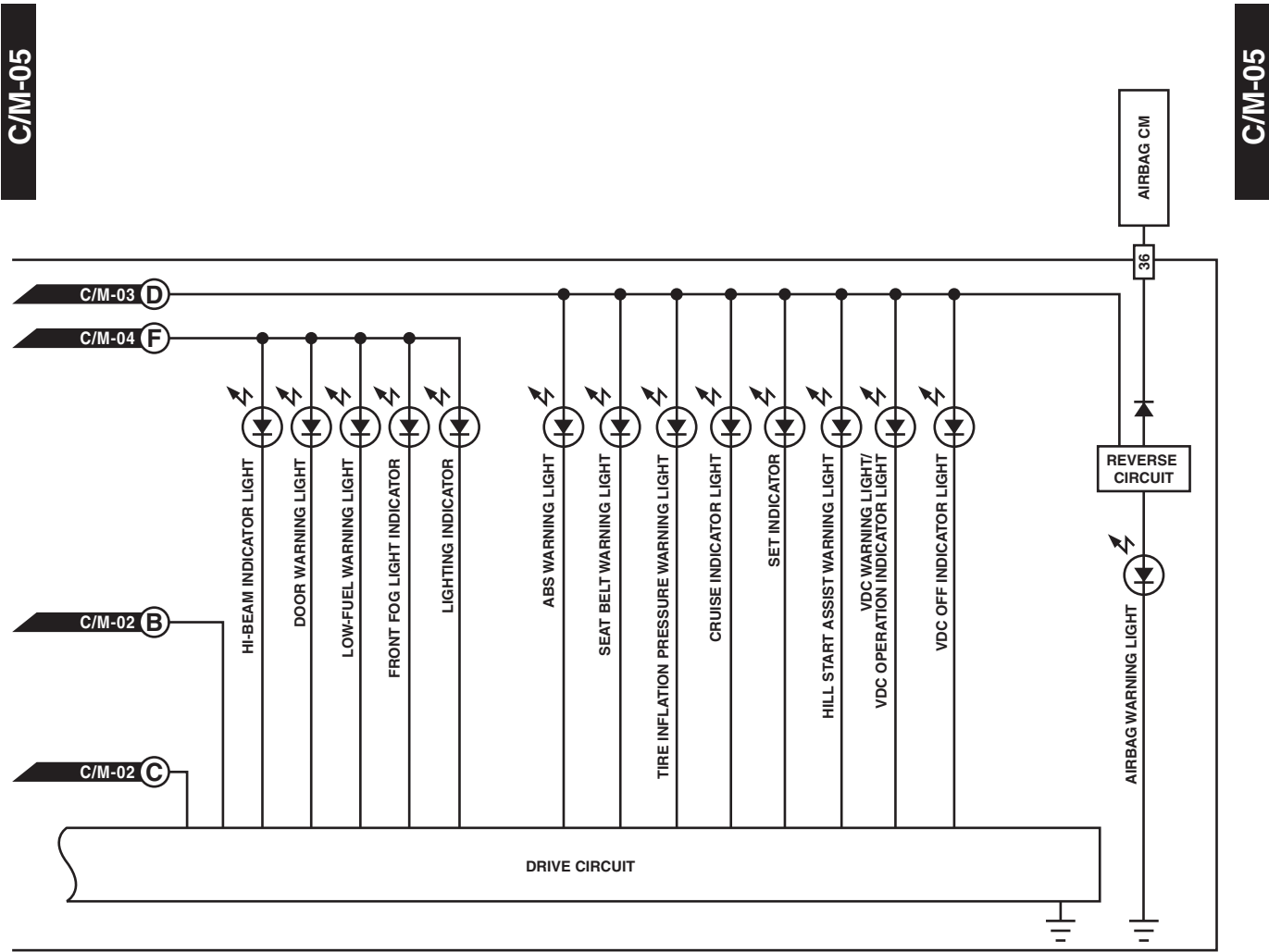
*1 : SEAT BELT
KEY WARNING
HEADLIGHT ON WARNING
CUSTOMIZED



WI-33820

Combination Meter System

WIRING SYSTEM

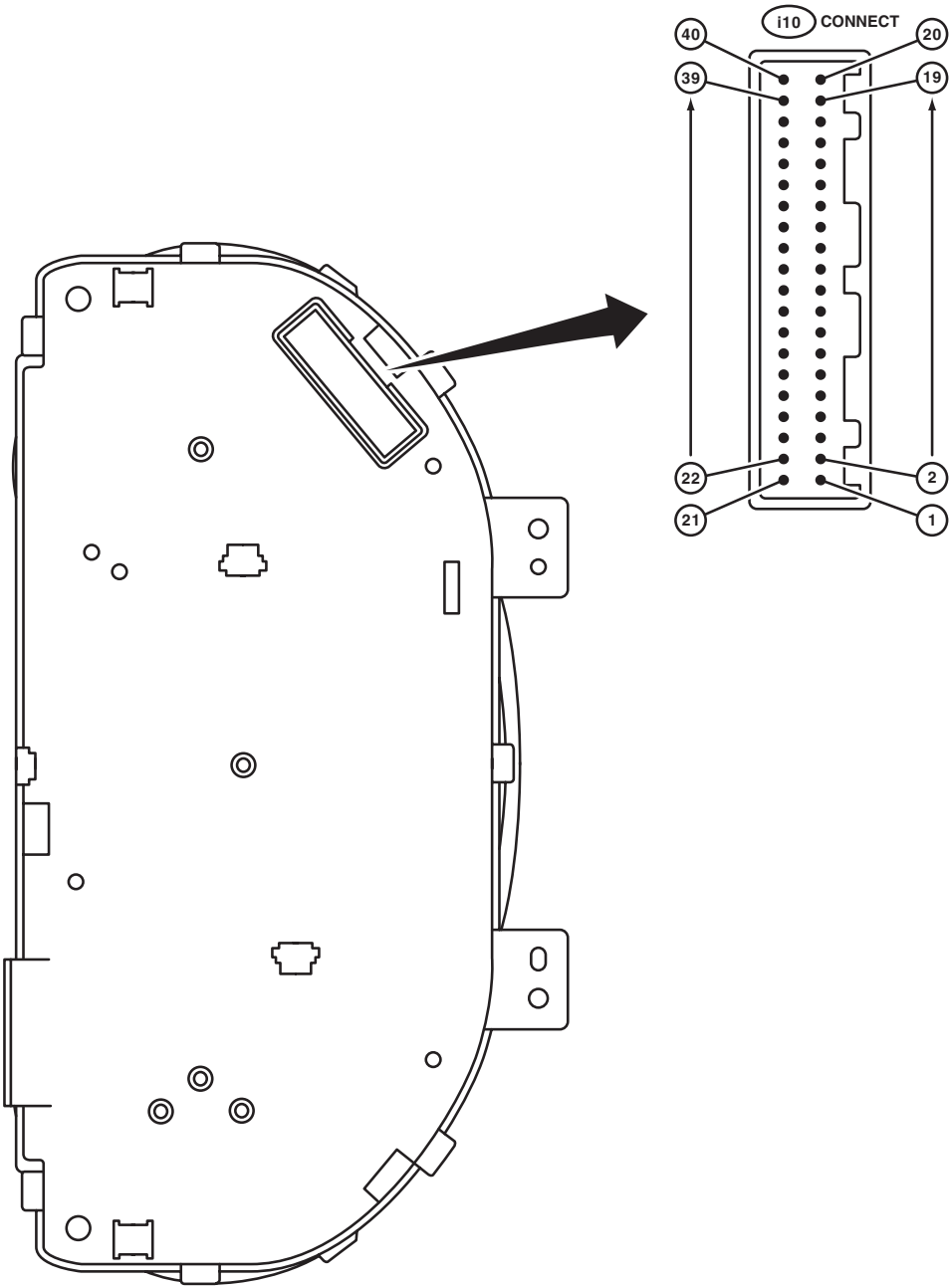


WI-33821

2. WITH SI-DRIVE

C/M(S)-01

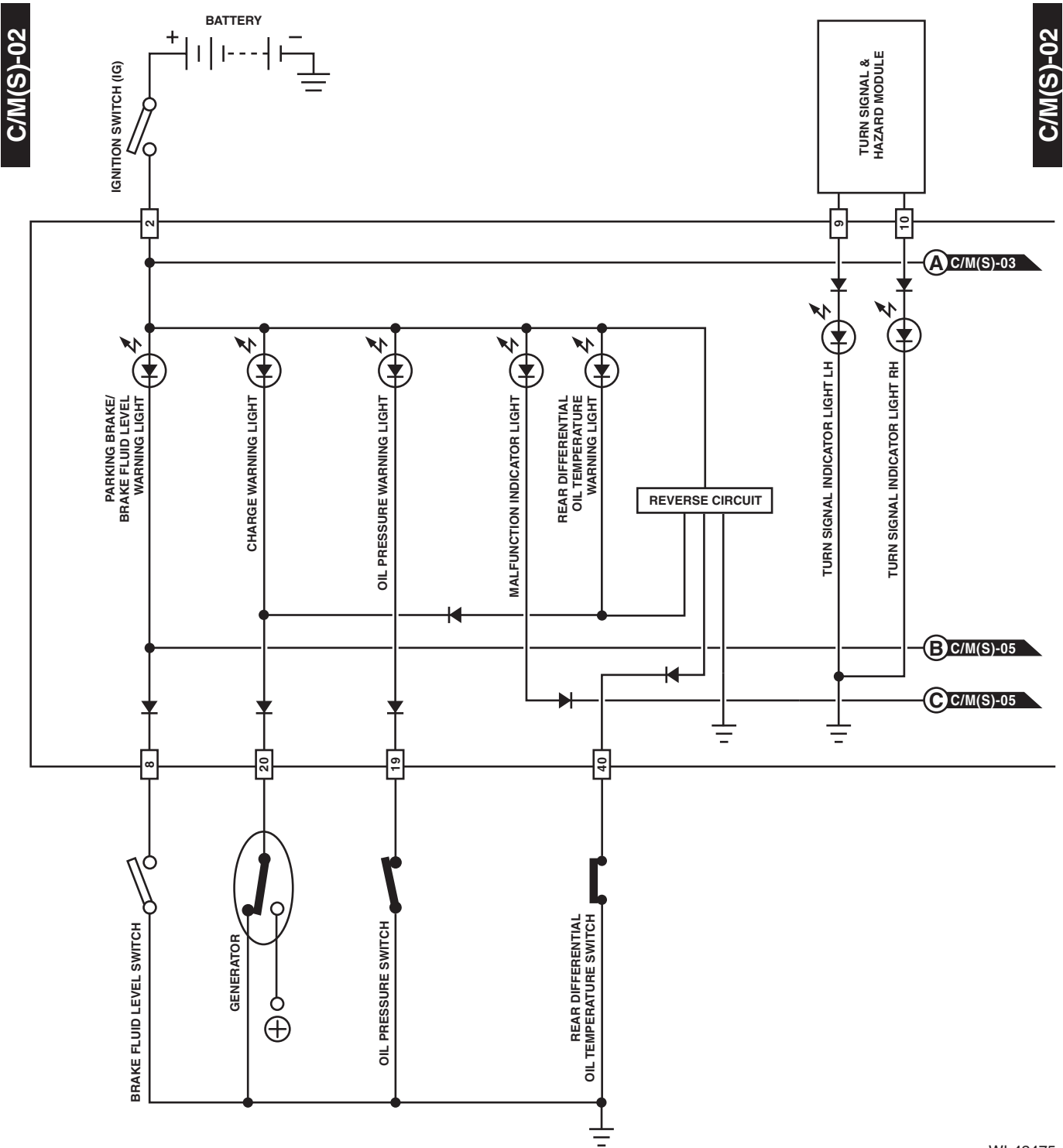
C/M(S)-01



WI-30468

Combination Meter System

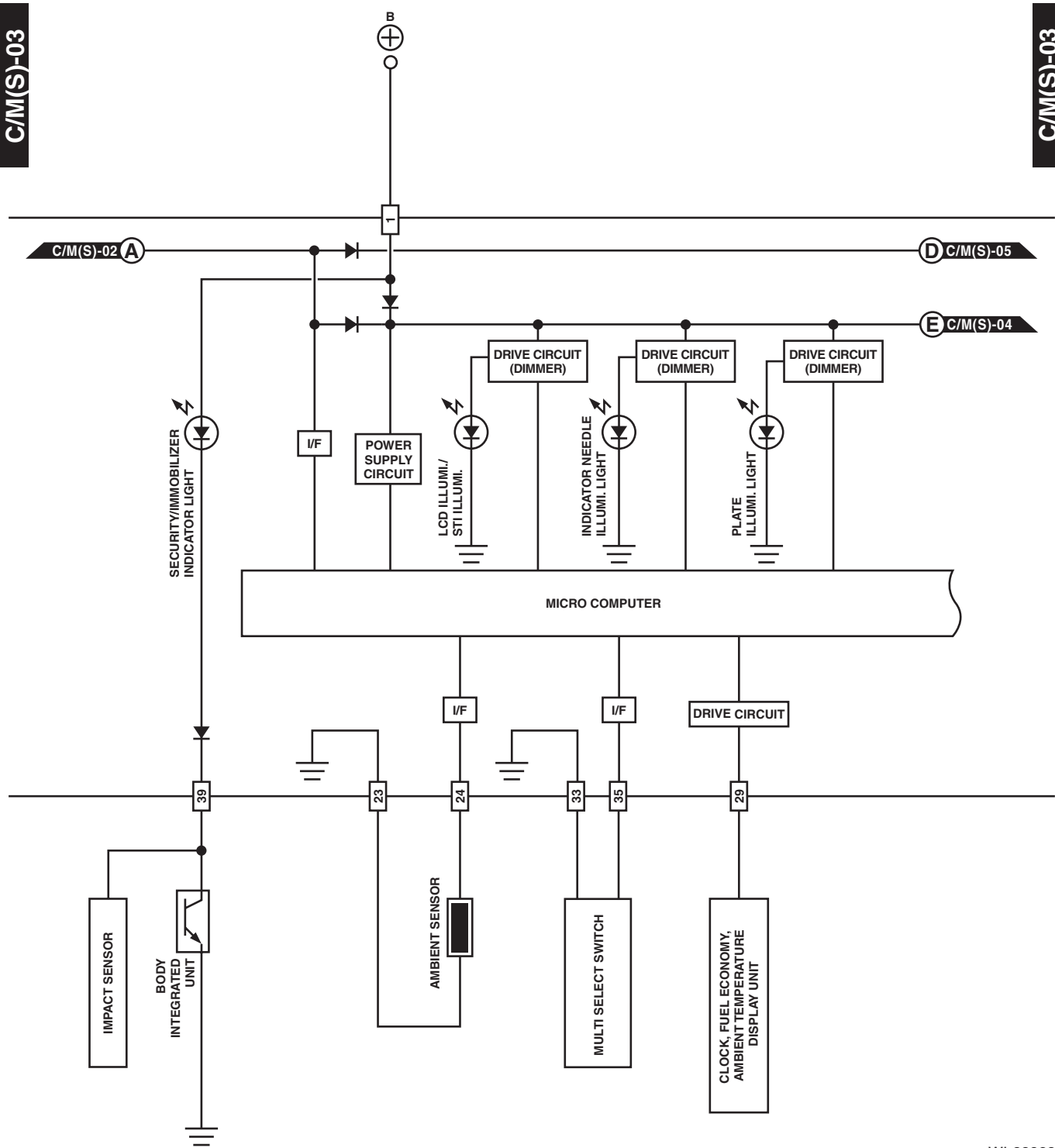
WIRING SYSTEM



WI-42475

Combination Meter System

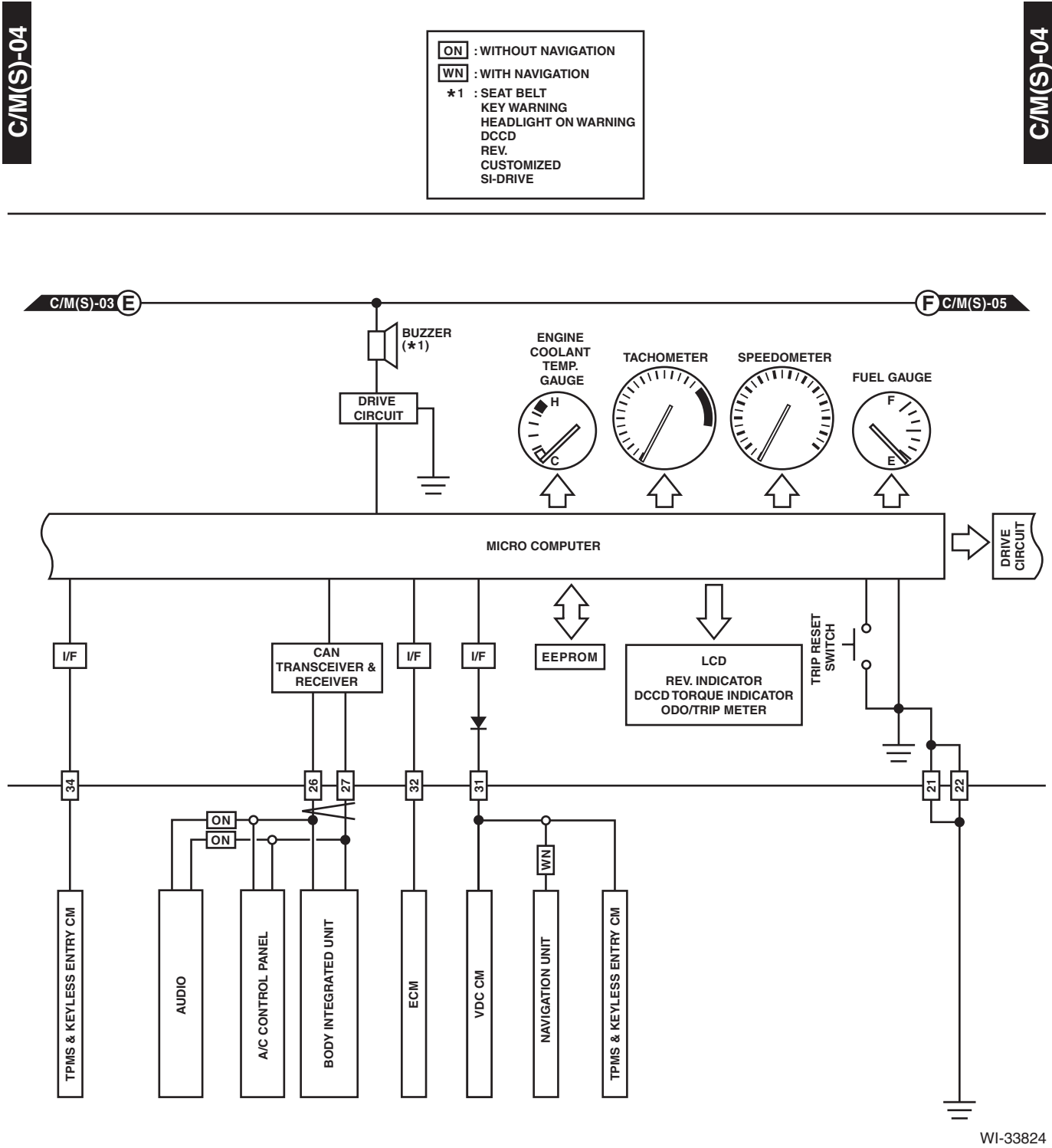
WIRING SYSTEM



WI-33823

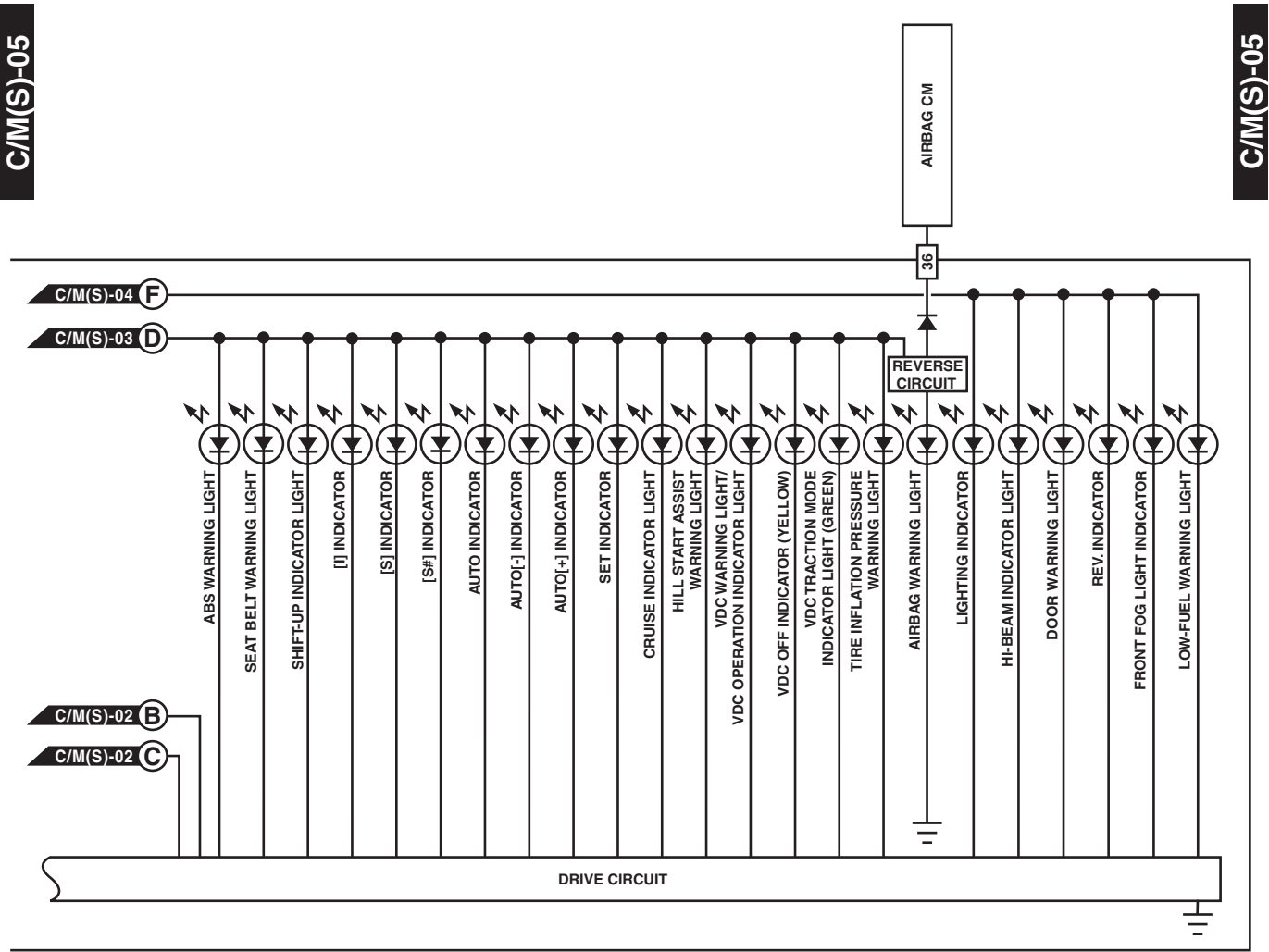
Combination Meter System

WIRING SYSTEM



Combination Meter System

WIRING SYSTEM



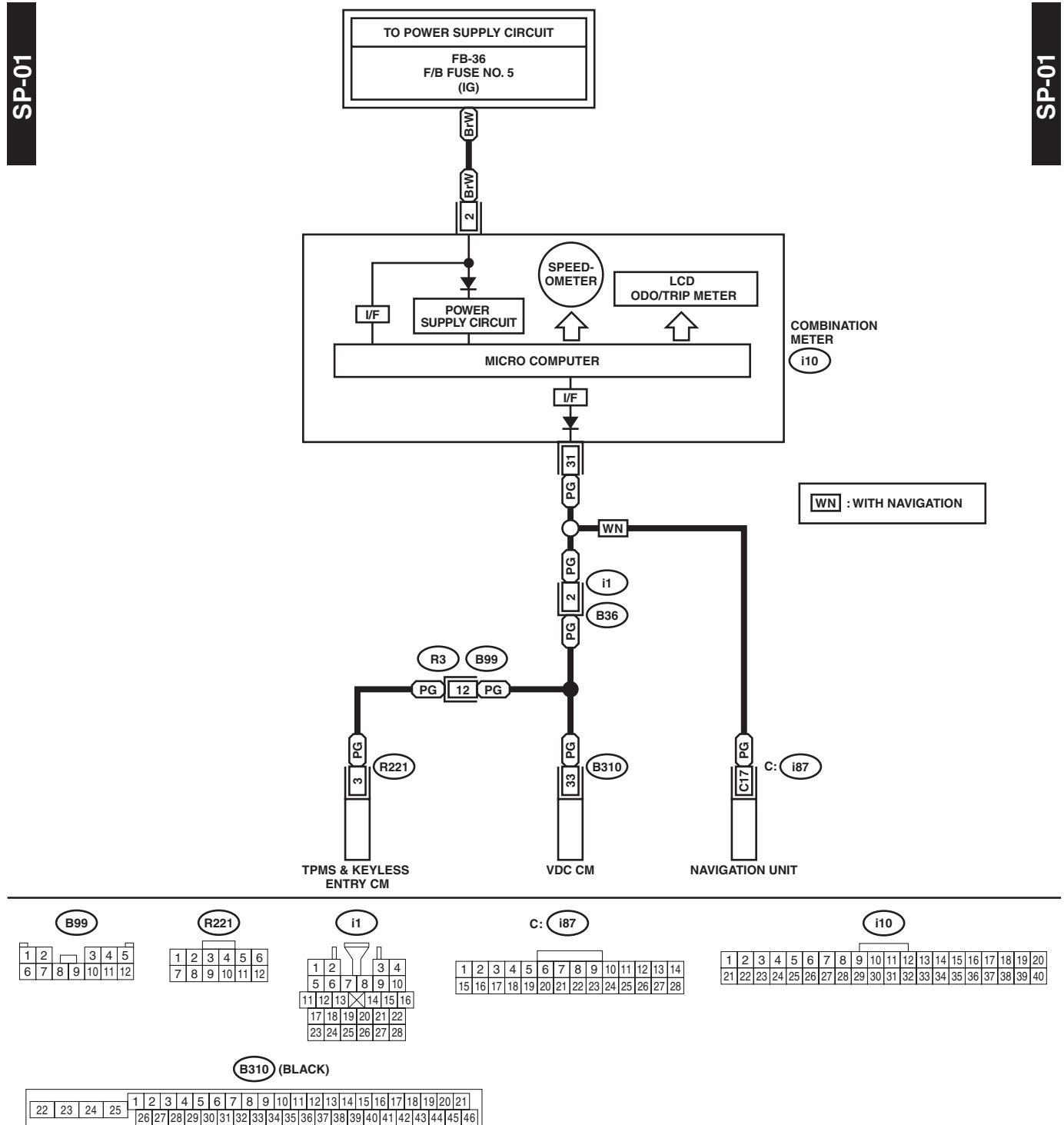
WI-33825

WIRING SYSTEM

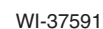
37.Speedometer System

A: WIRING DIAGRAM

A: WIRING DIAGRAM



A: WIRING DIAGRAM

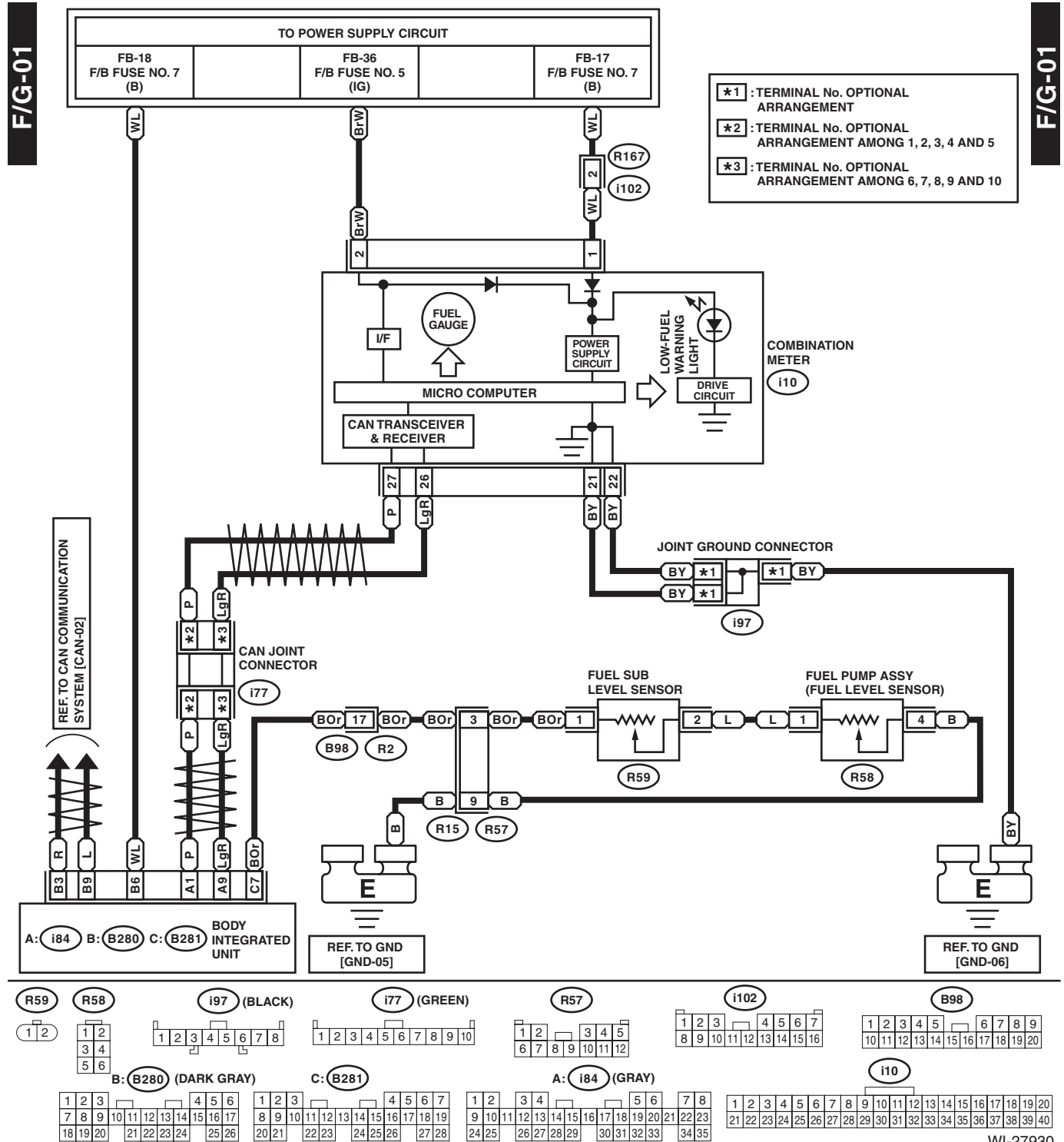


Fuel Gauge System

WIRING SYSTEM

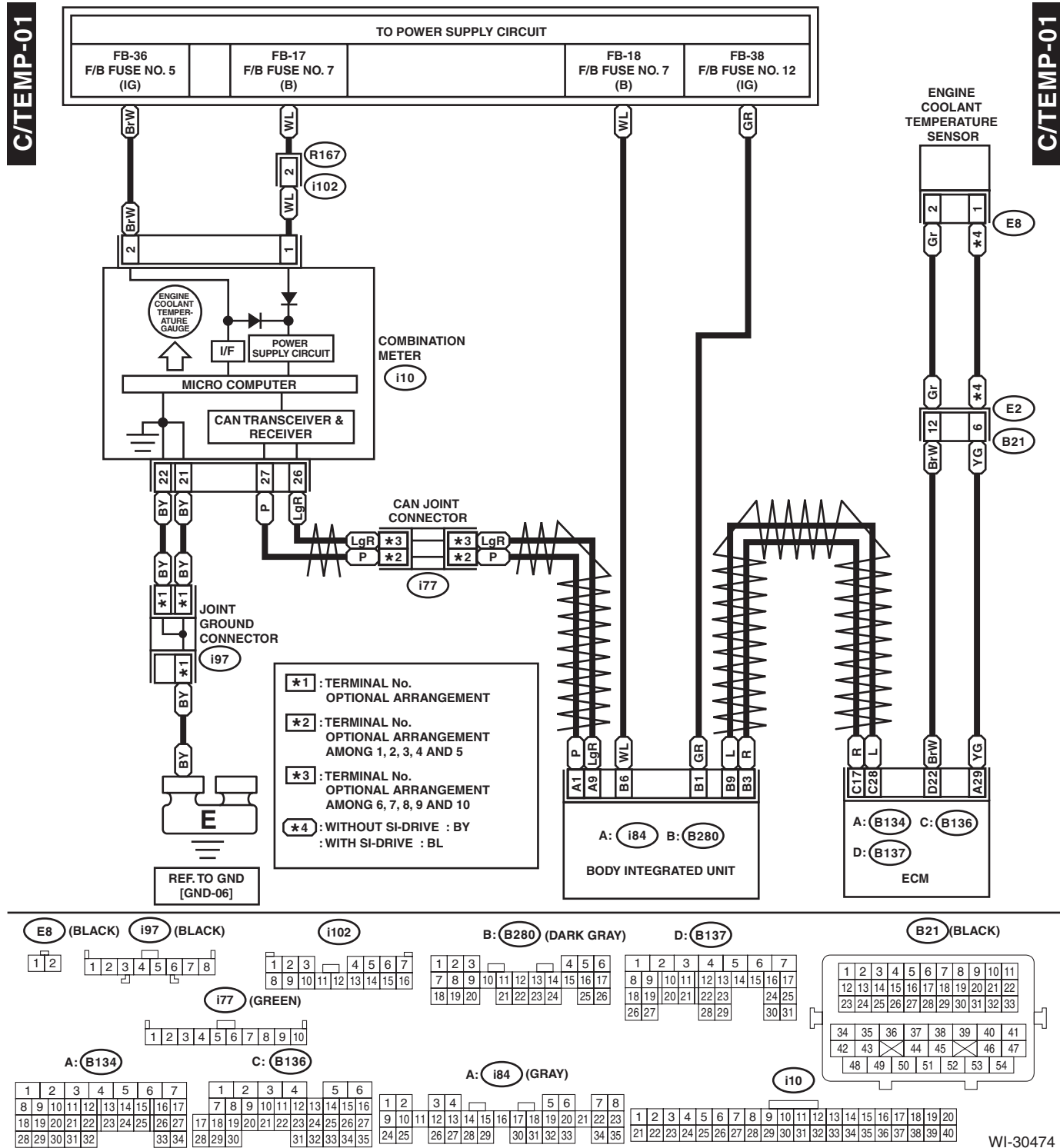
39. Fuel Gauge System

A: WIRING DIAGRAM



40. Coolant Temperature System

A: WIRING DIAGRAM

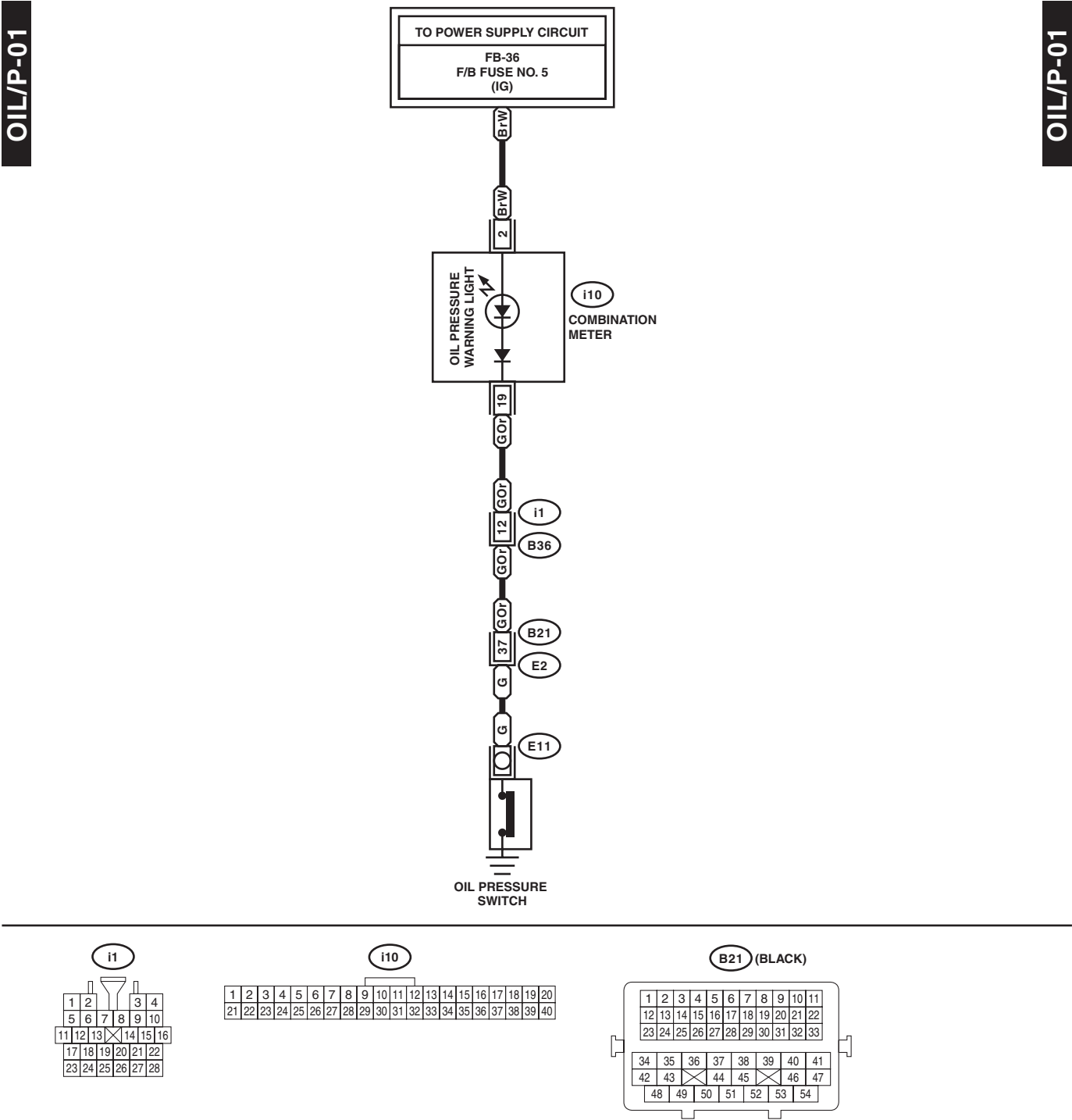


Oil Pressure Warning Light System

WIRING SYSTEM

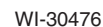
41.Oil Pressure Warning Light System

A: WIRING DIAGRAM



WI-42476

A: WIRING DIAGRAM

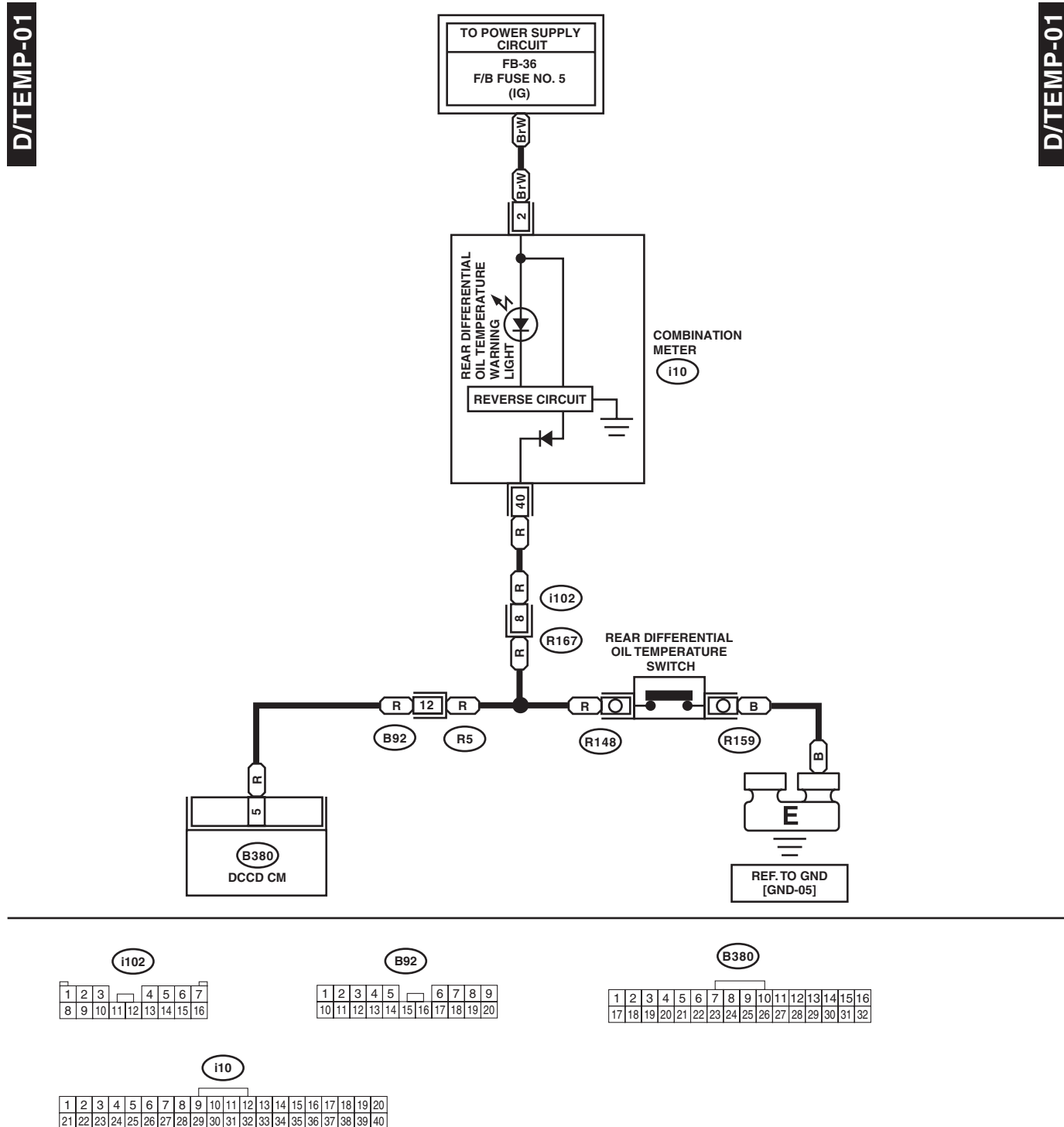


Rear Differential Oil Temperature Warning Light System

WIRING SYSTEM

43.Rear Differential Oil Temperature Warning Light System

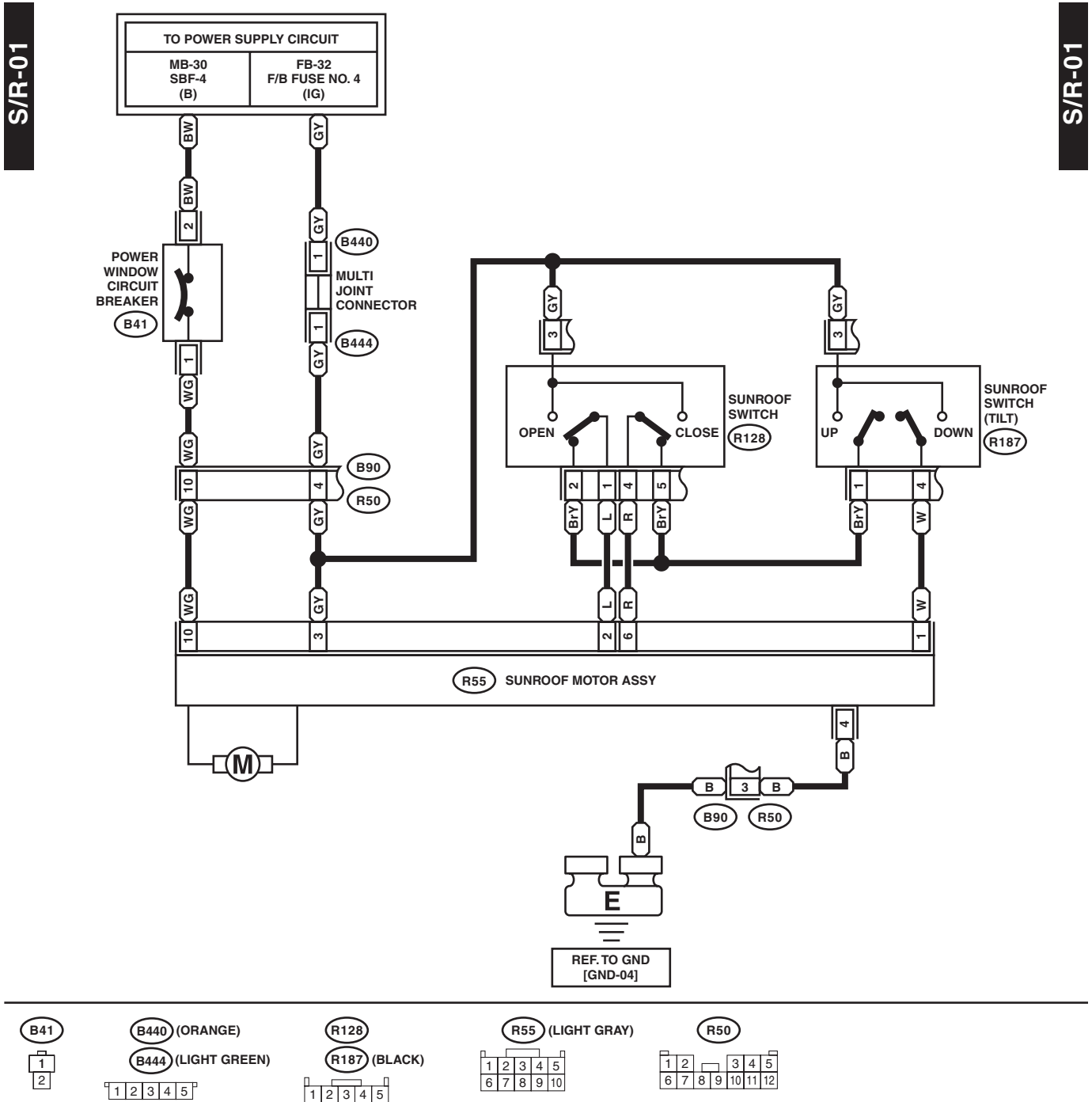
A: WIRING DIAGRAM



WI-37592

44.Sunroof Control System

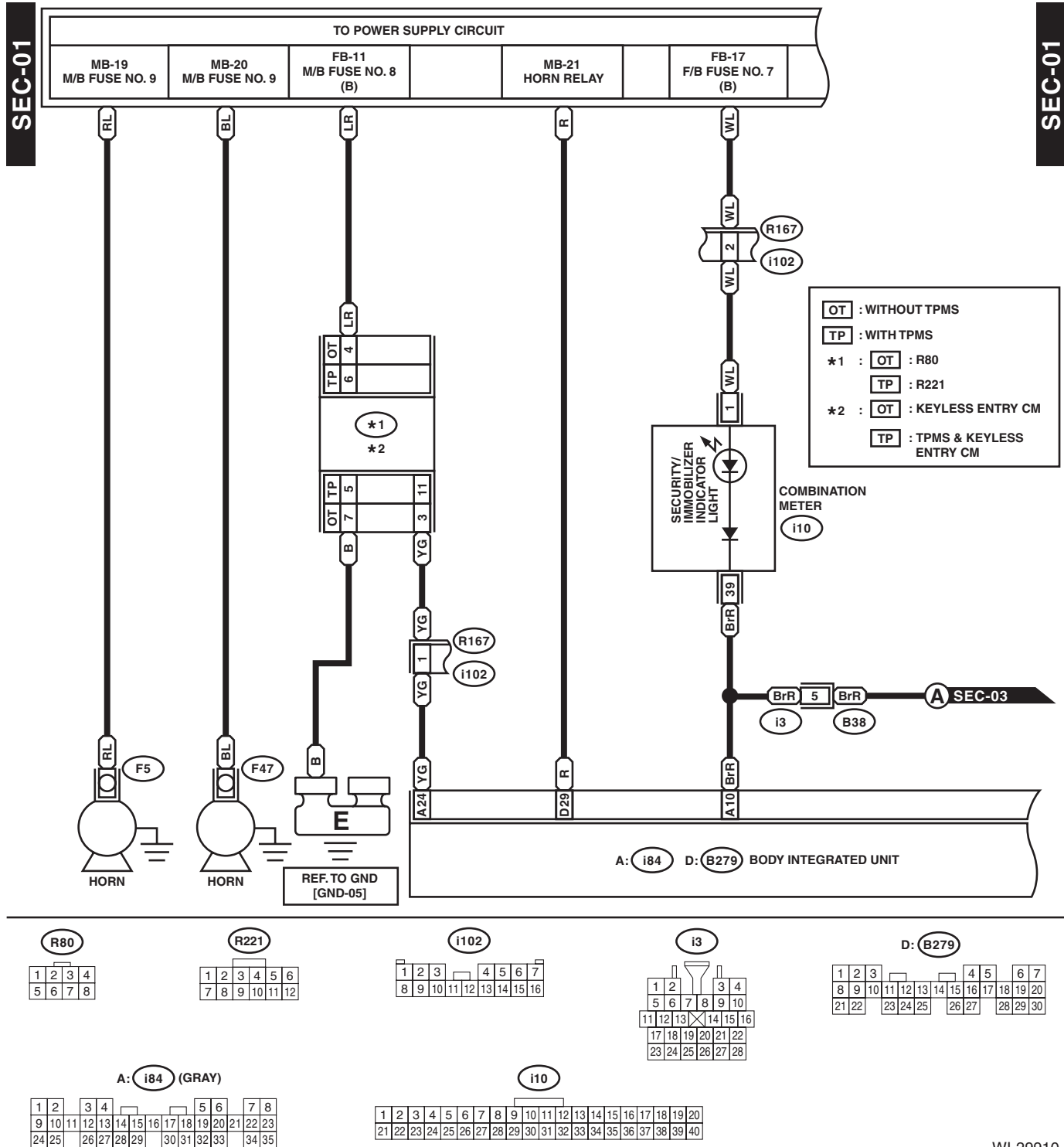
A: WIRING DIAGRAM



WI-37593

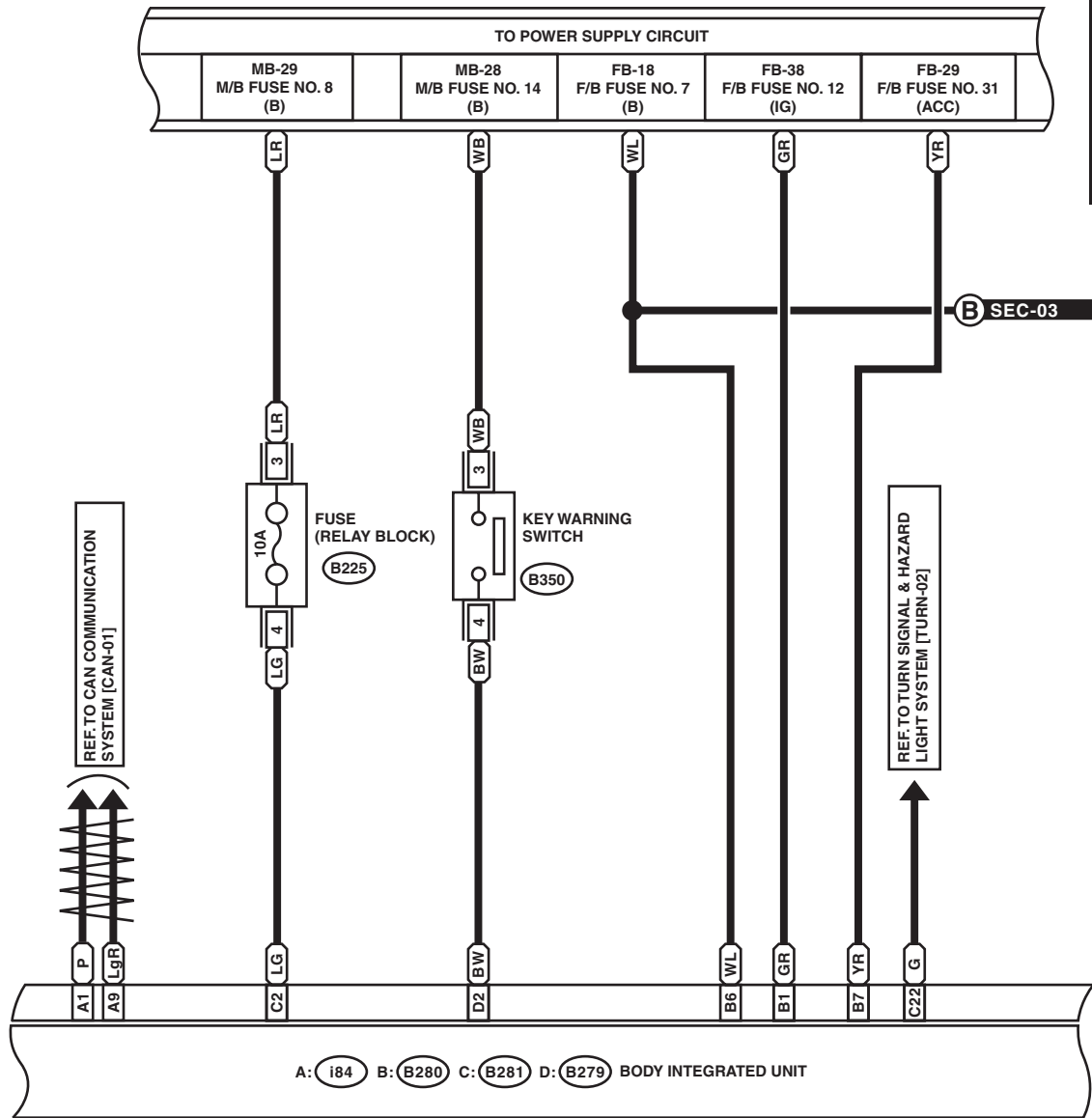
45.Security System

A: WIRING DIAGRAM

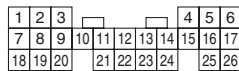


SEC-02

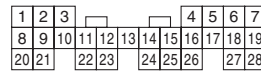
SEC-02



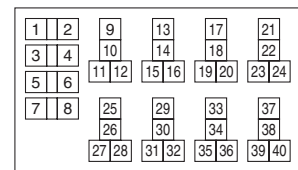
B: (B280) (DARK GRAY)



C: (B281)



(B225) (BLACK)

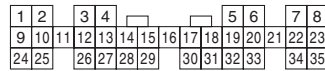


RELAY BLOCK

D: (B279)



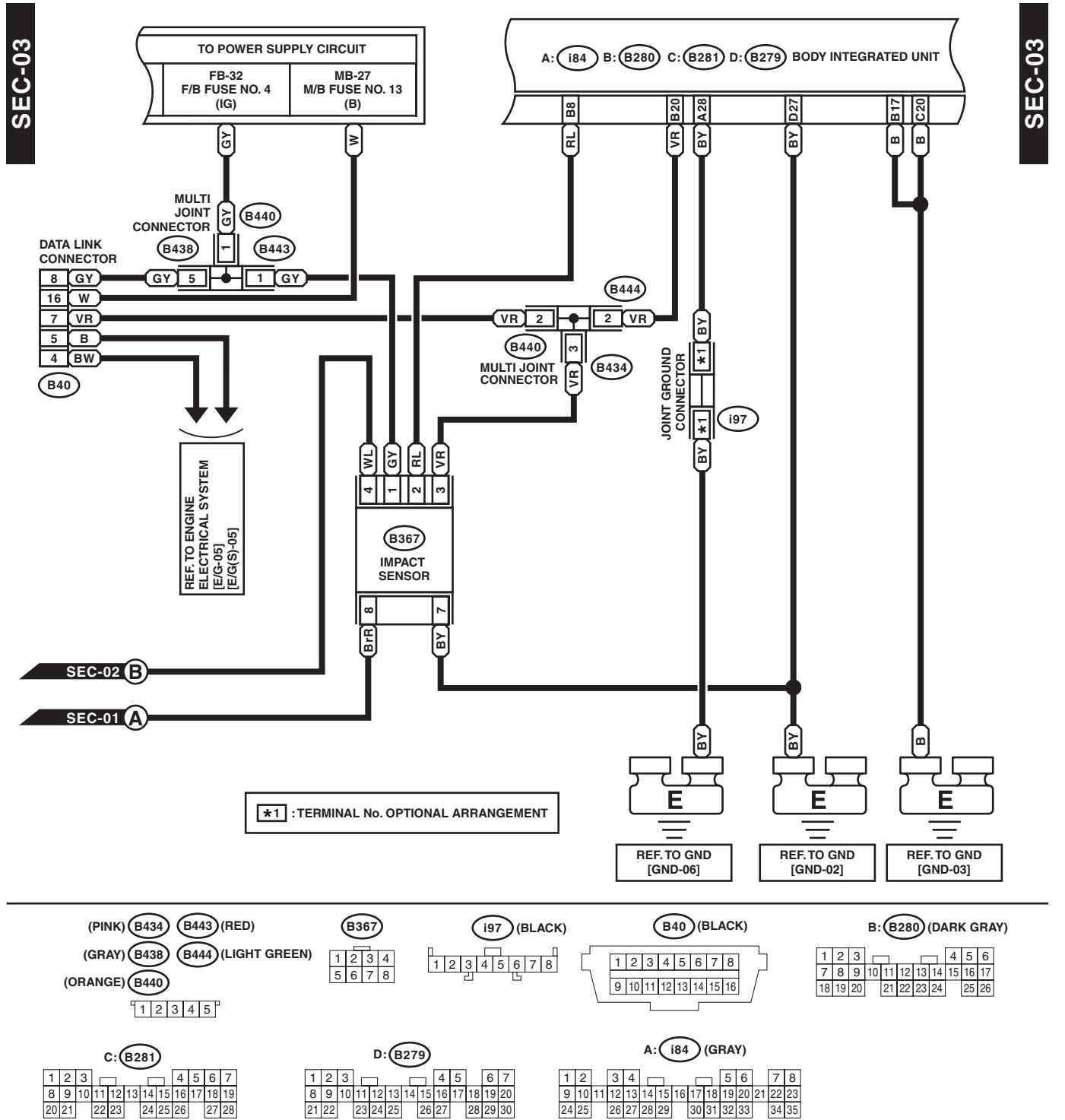
A: (i84) (GRAY)



WI-27934

Security System

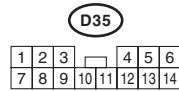
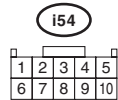
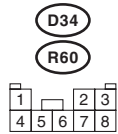
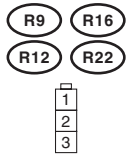
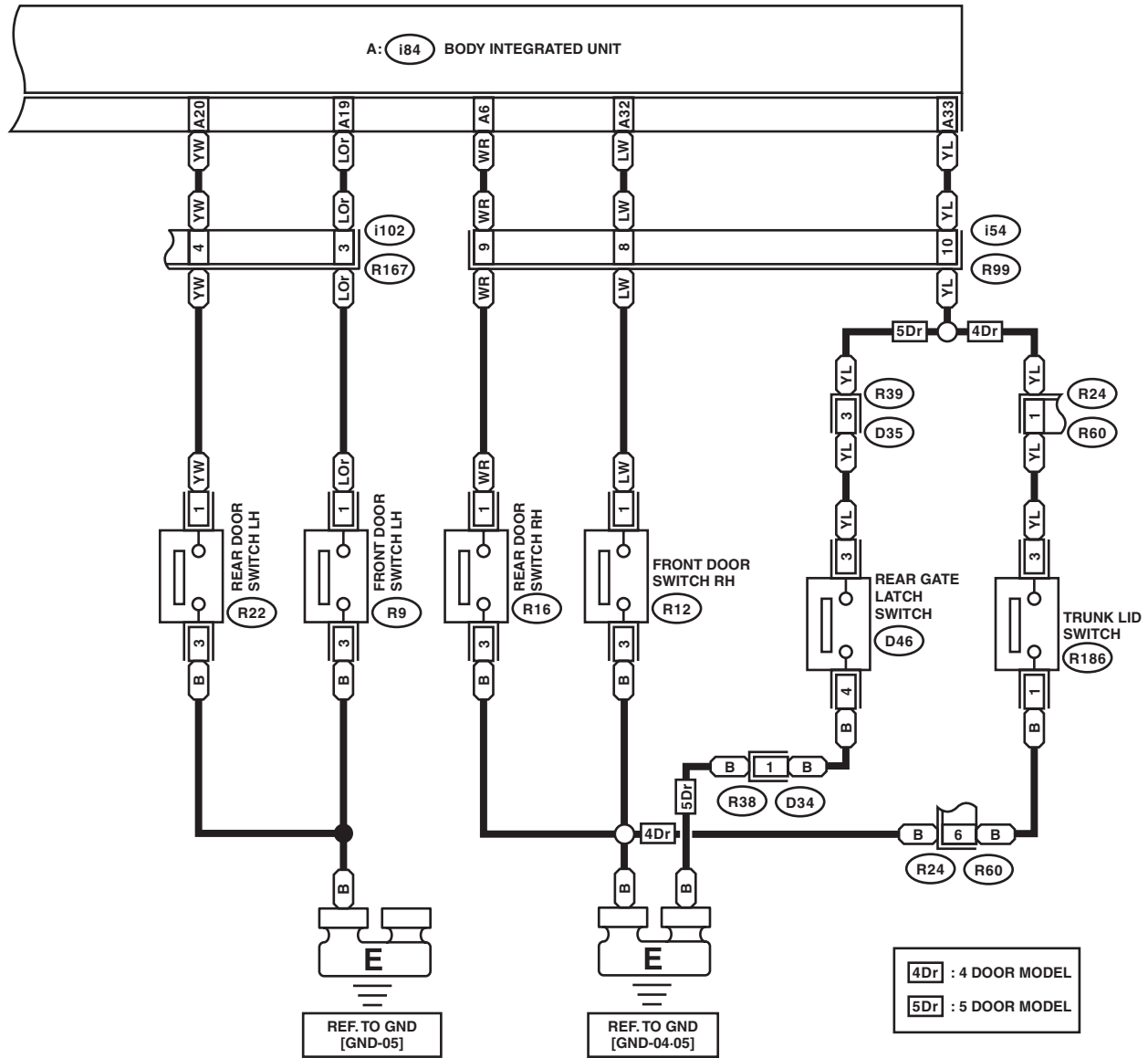
WIRING SYSTEM



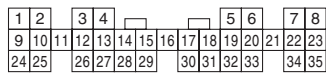
WI-30546

SEC-04

SEC-04



A: i84 (GRAY)



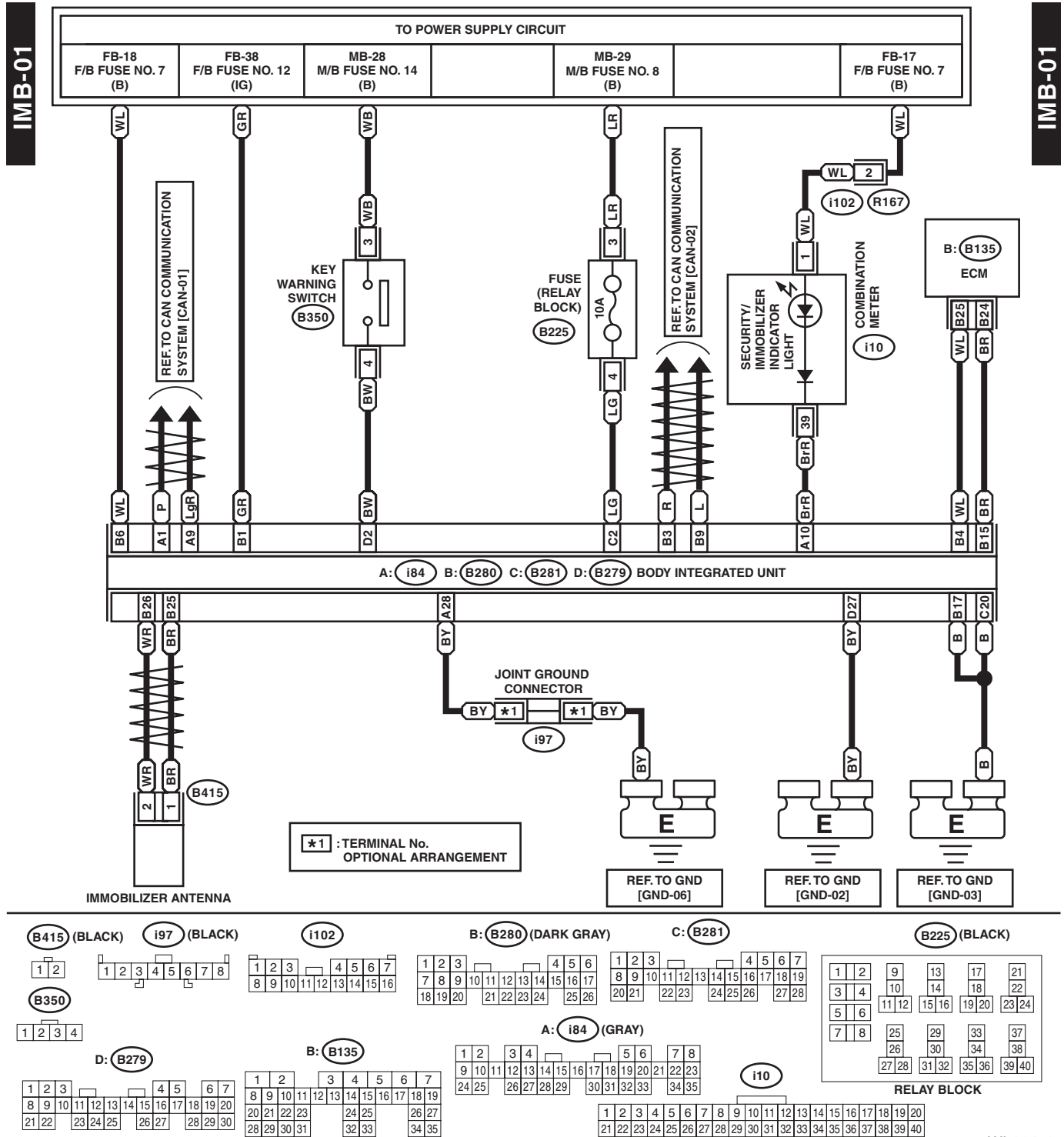
WI-30477

Immobilizer System

WIRING SYSTEM

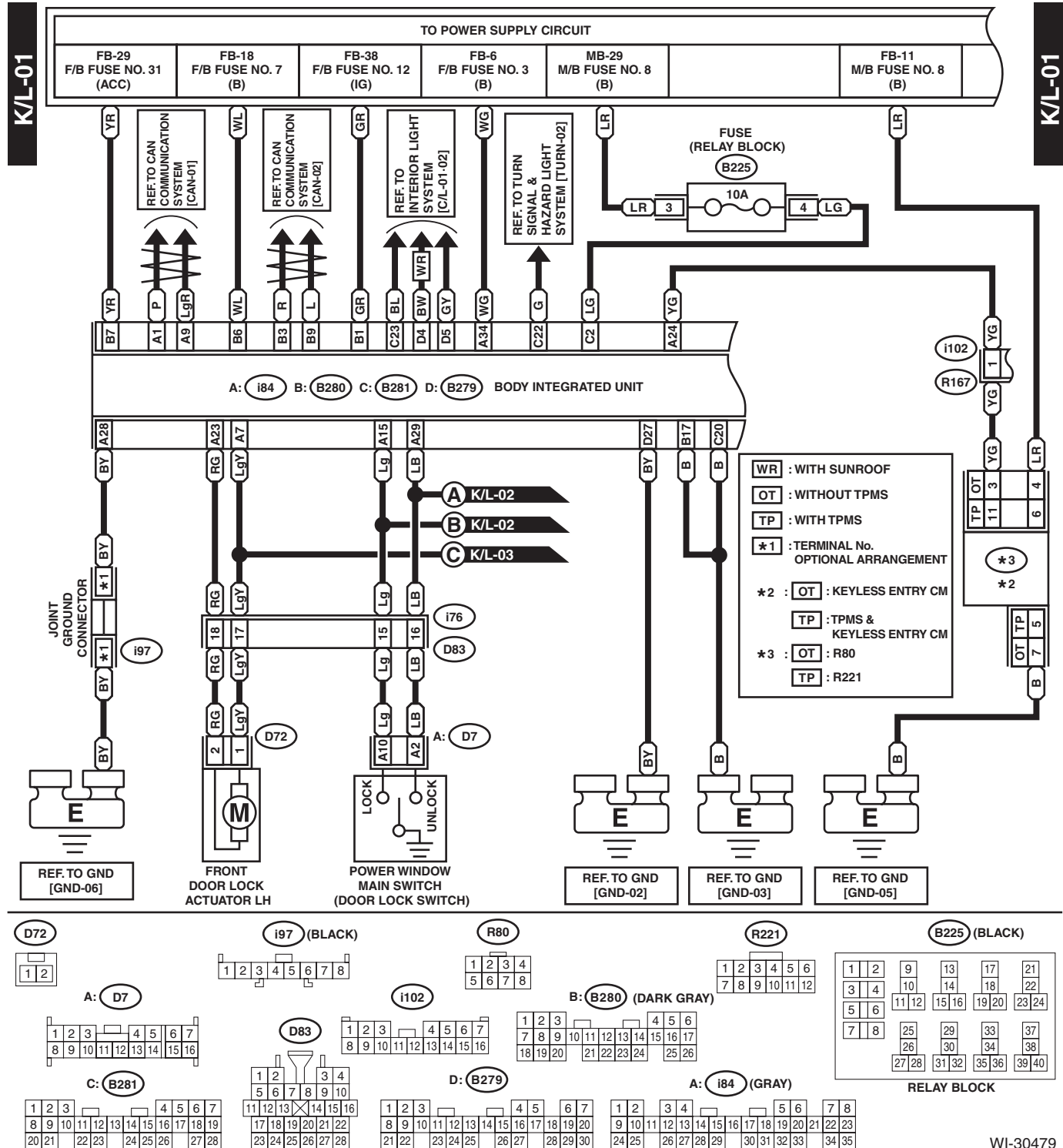
46. Immobilizer System

A: WIRING DIAGRAM



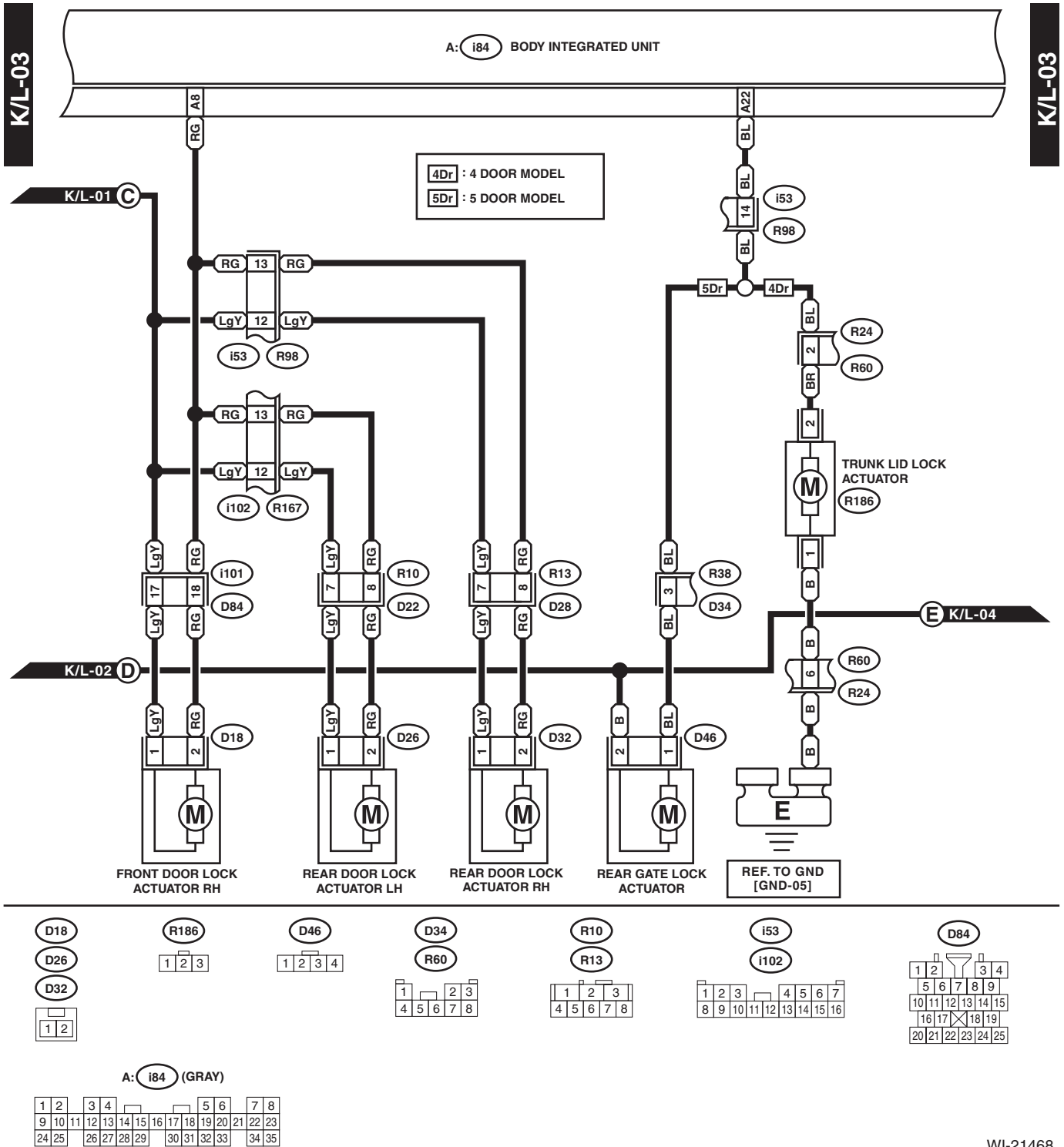
47. Keyless Entry System

A: WIRING DIAGRAM



Keyless Entry System

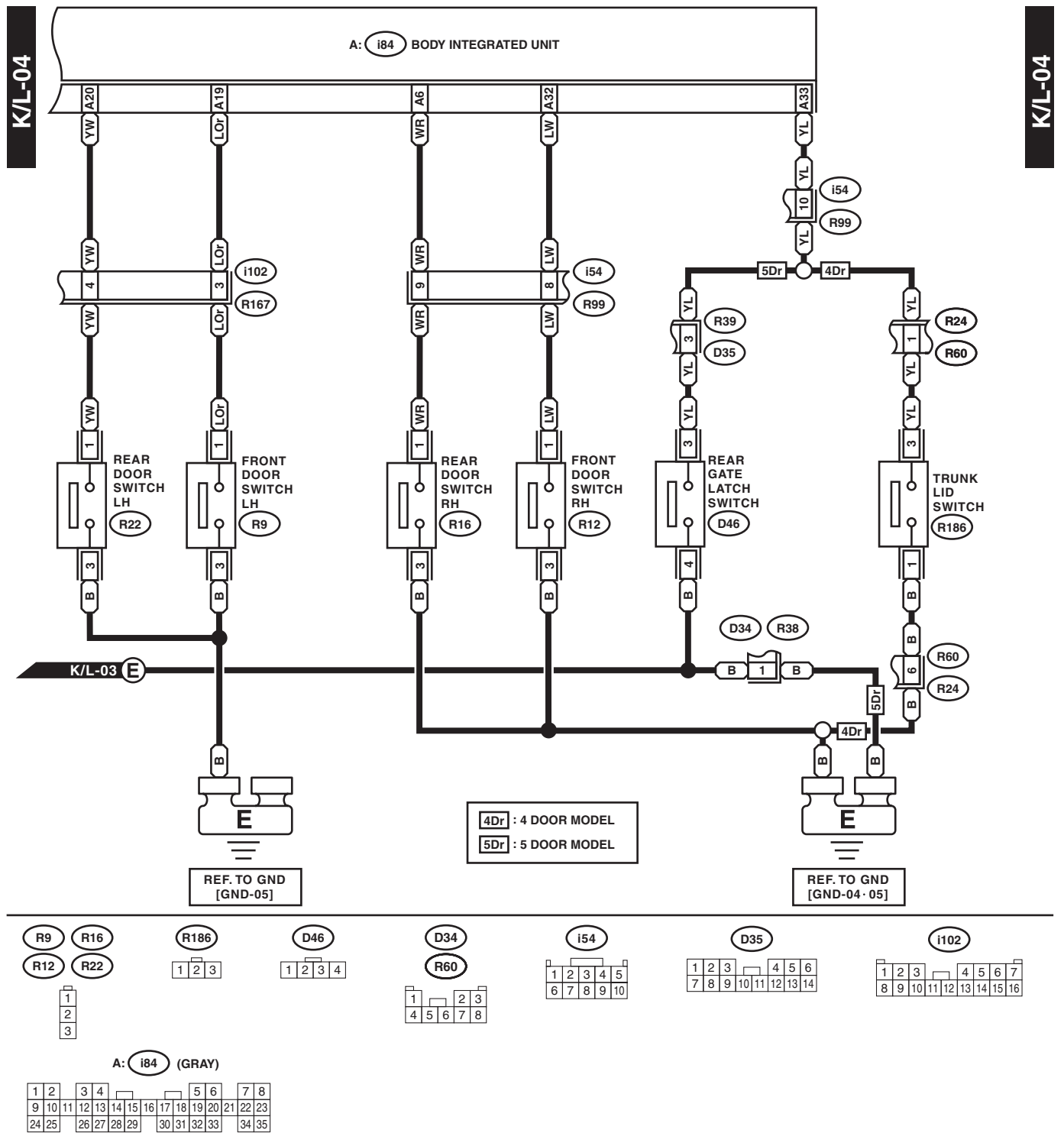
WIRING SYSTEM



WI-21468

Keyless Entry System

WIRING SYSTEM

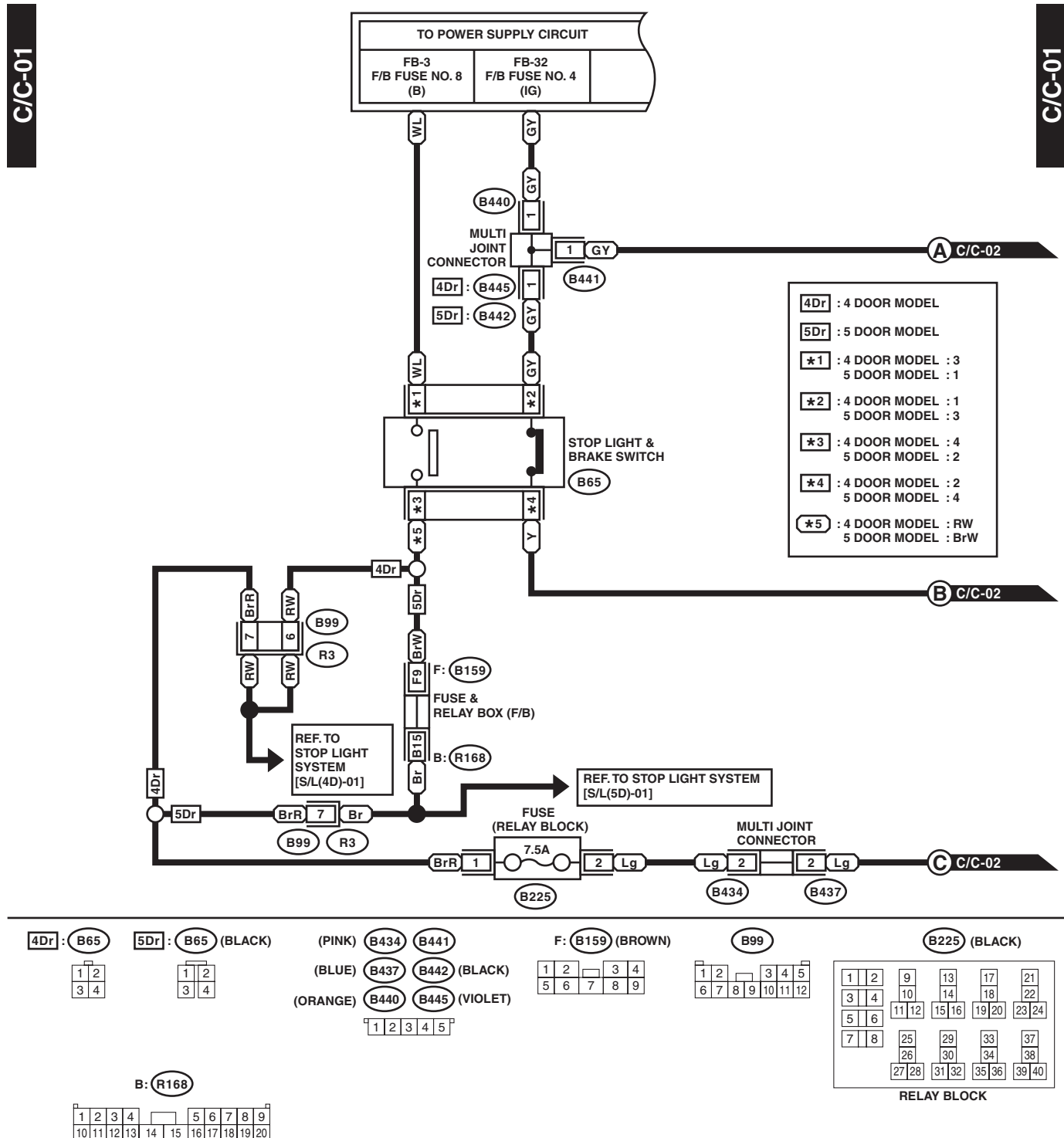


WI-21469

48. Cruise Control System

A: WIRING DIAGRAM

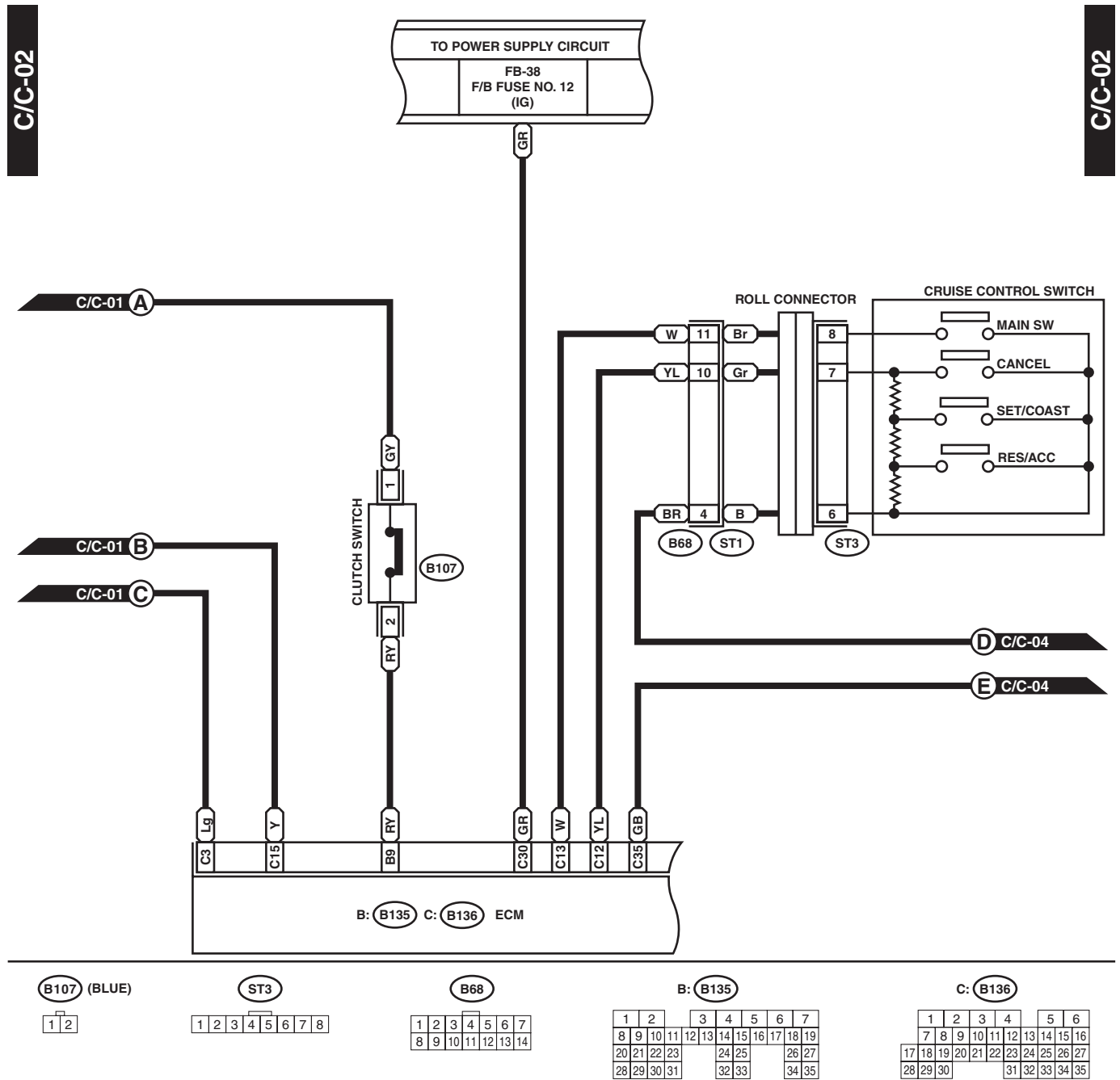
1. WITHOUT SI-DRIVE



WI-30480

Cruise Control System

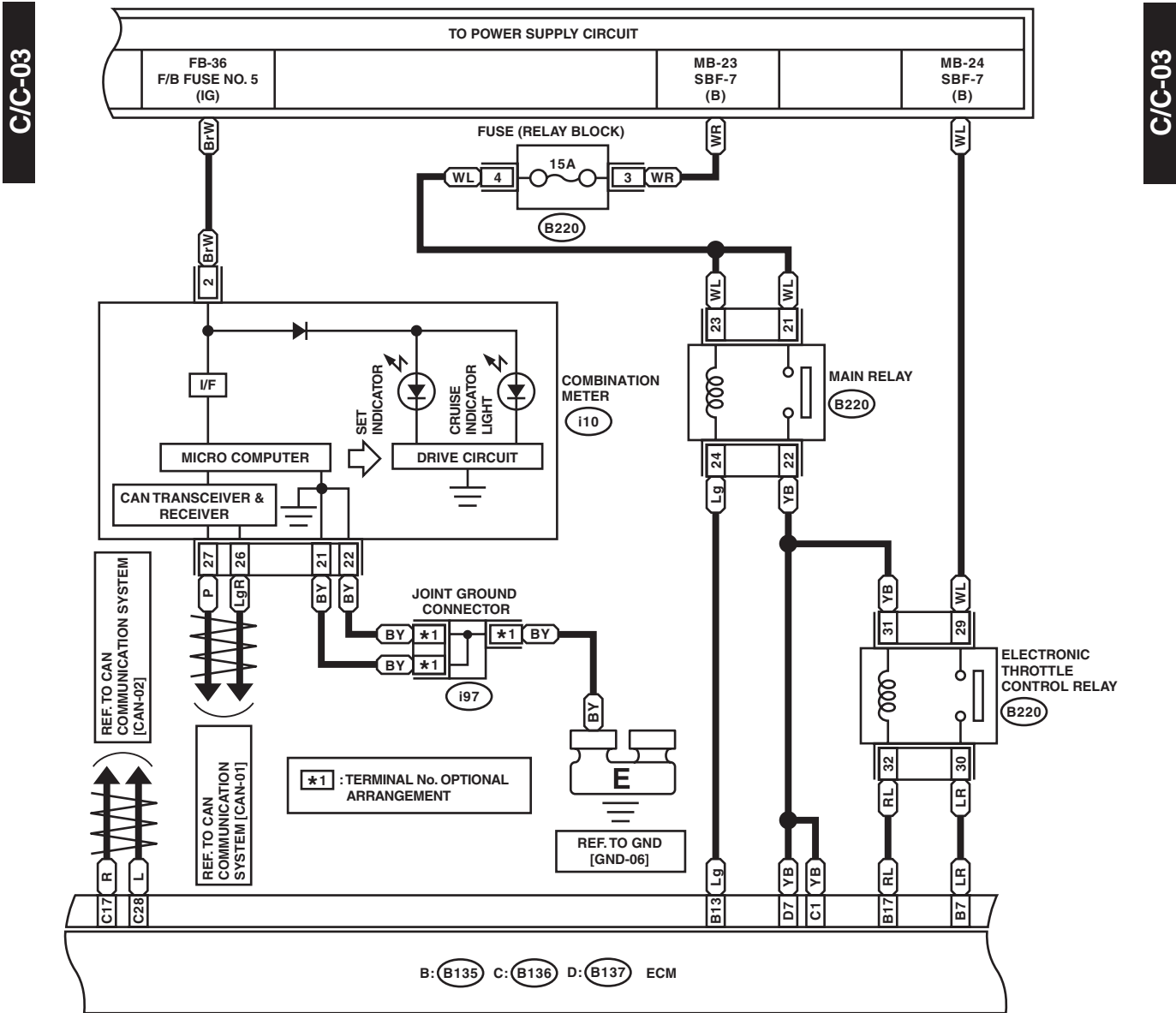
WIRING SYSTEM



WI-30481

Cruise Control System

WIRING SYSTEM



i97 (BLACK)

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

D: (B137)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

B: (B135)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

(B220) (BLACK)

1	2	9	13	17	21
3	4	10	14	18	22
5	6	11	15	19	23
7	8	12	16	20	24
25	29	33	37		
26	30	34	38		
27	28	31	32	35	36
39	40				

RELAY BLOCK

C: (B136)

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

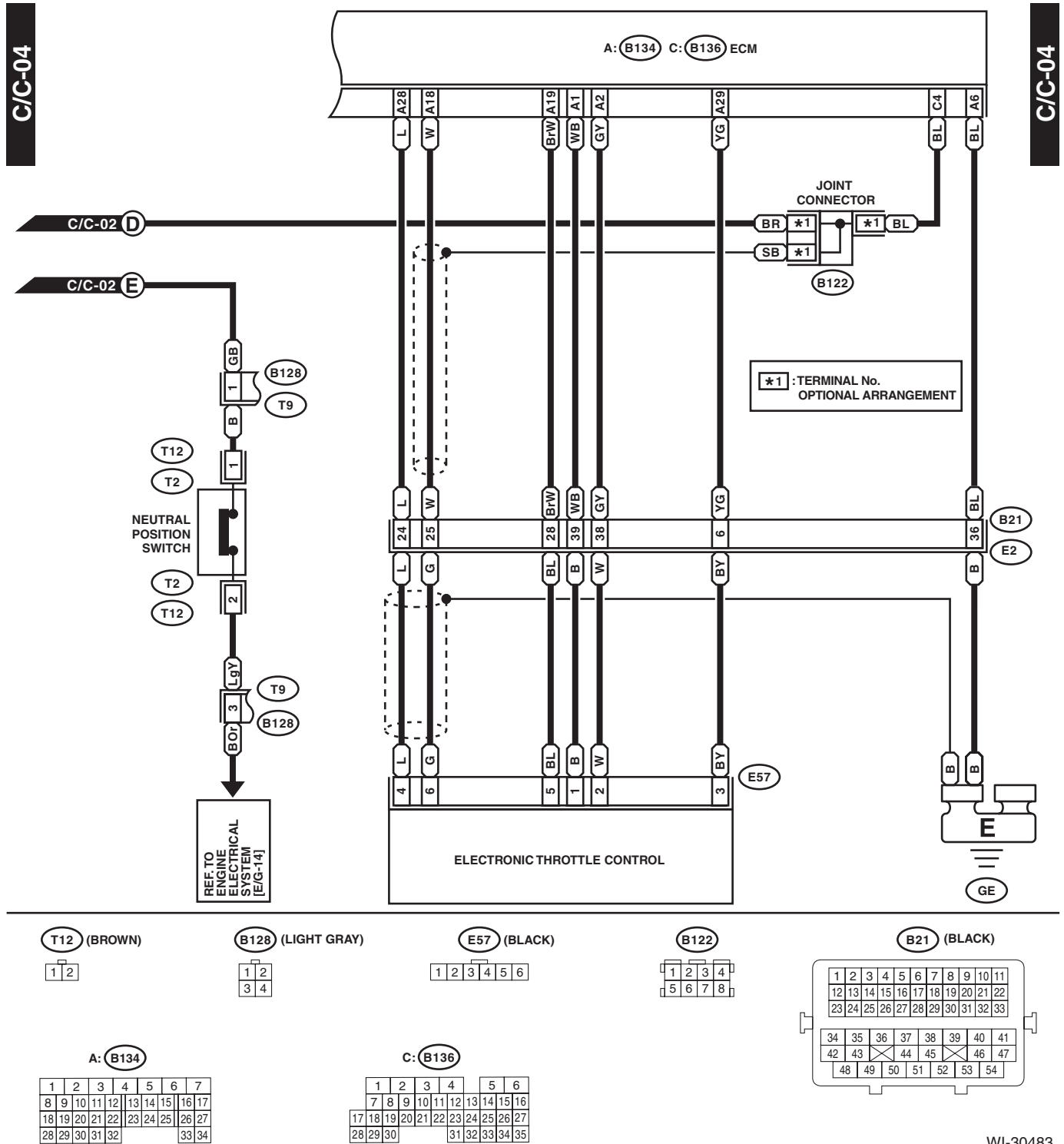
i10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

WI-33879

Cruise Control System

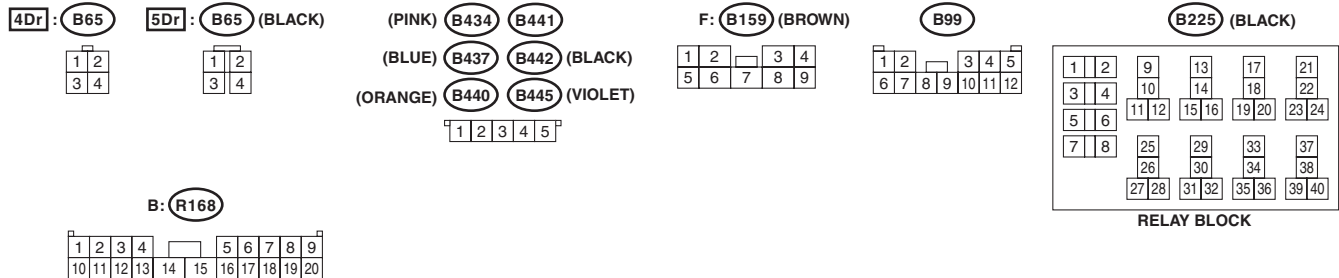
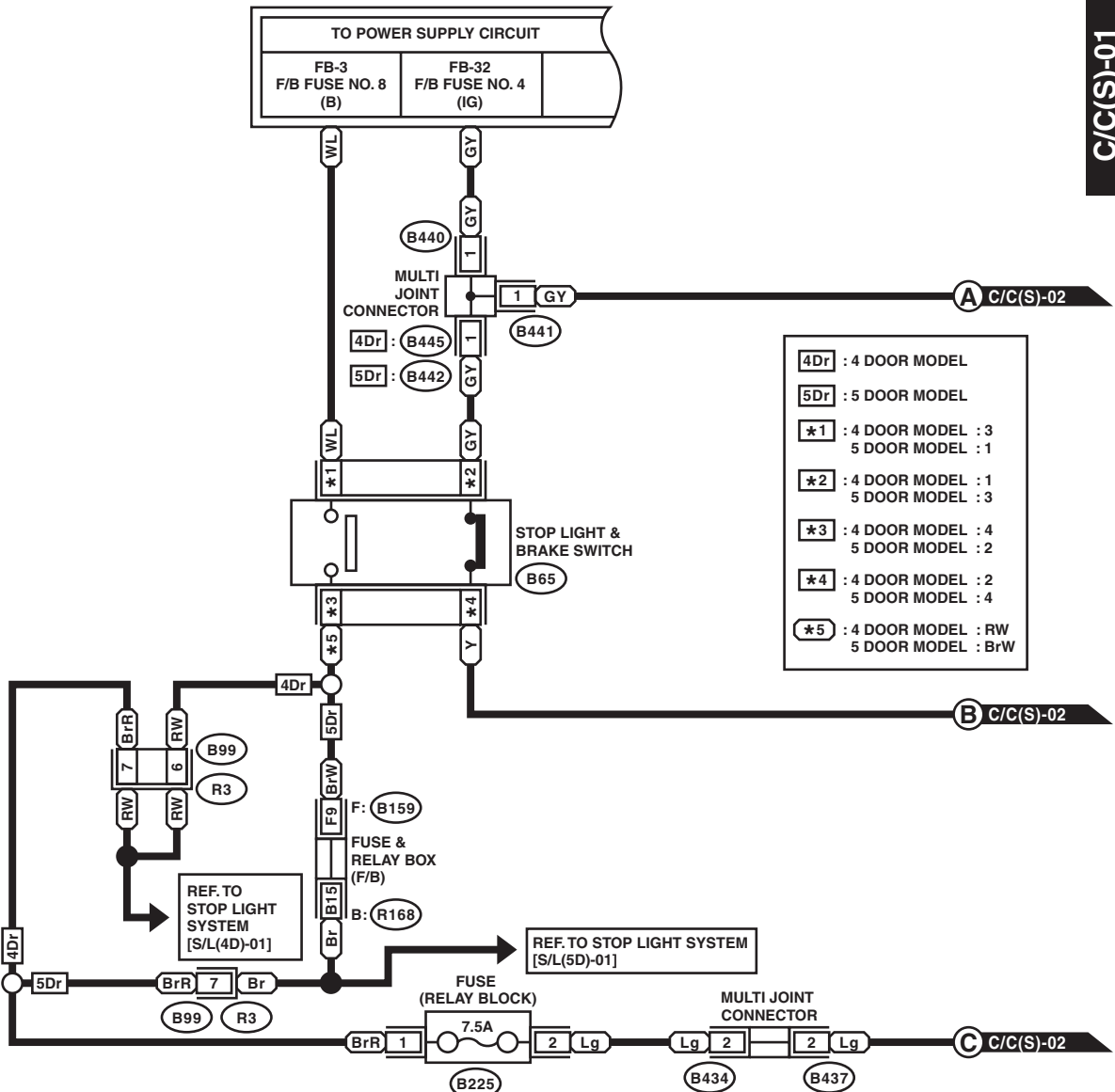
WIRING SYSTEM



2. WITH SI-DRIVE

C/C(S)-01

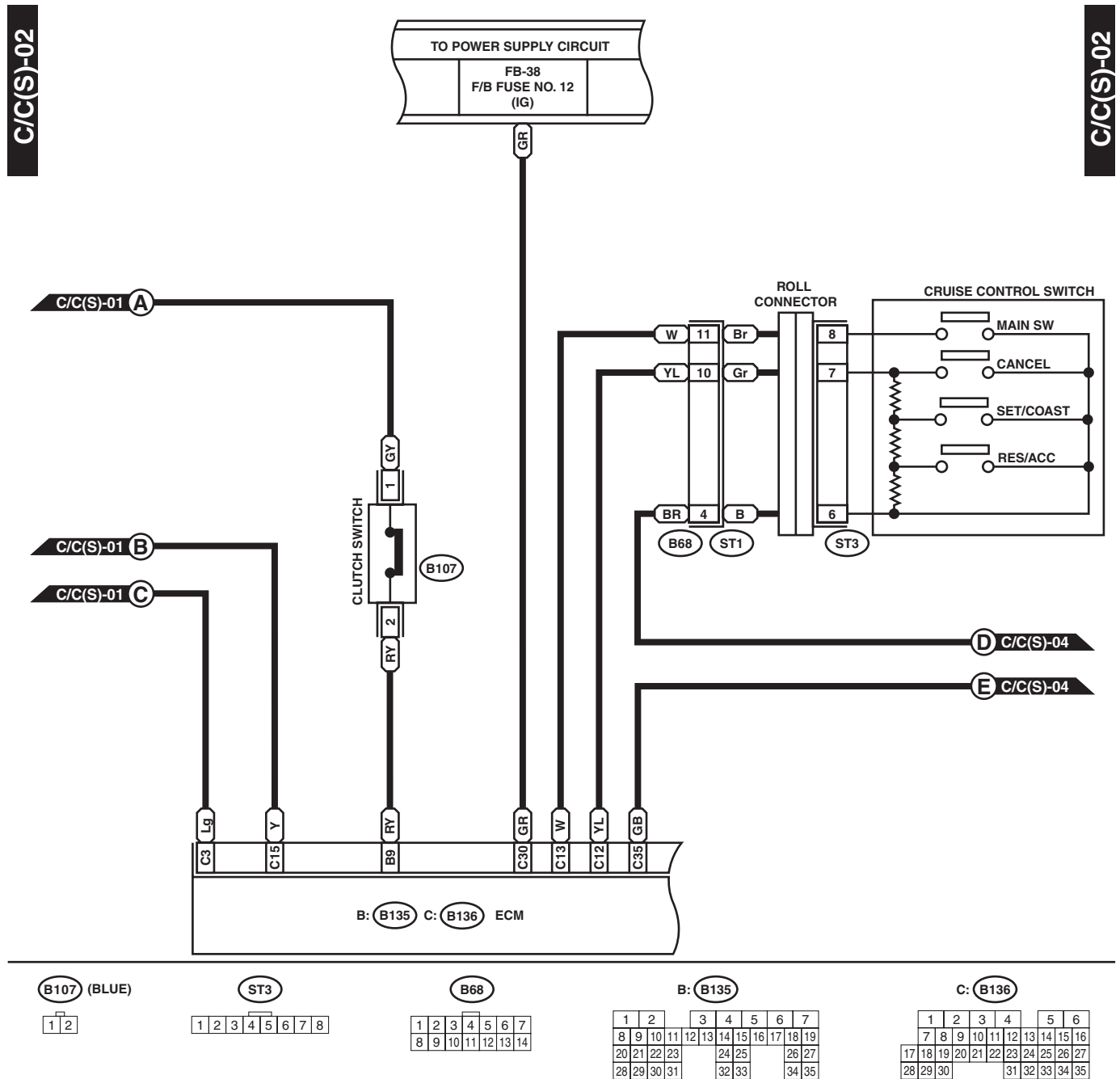
C/C(S)-01



WI-30484

Cruise Control System

WIRING SYSTEM



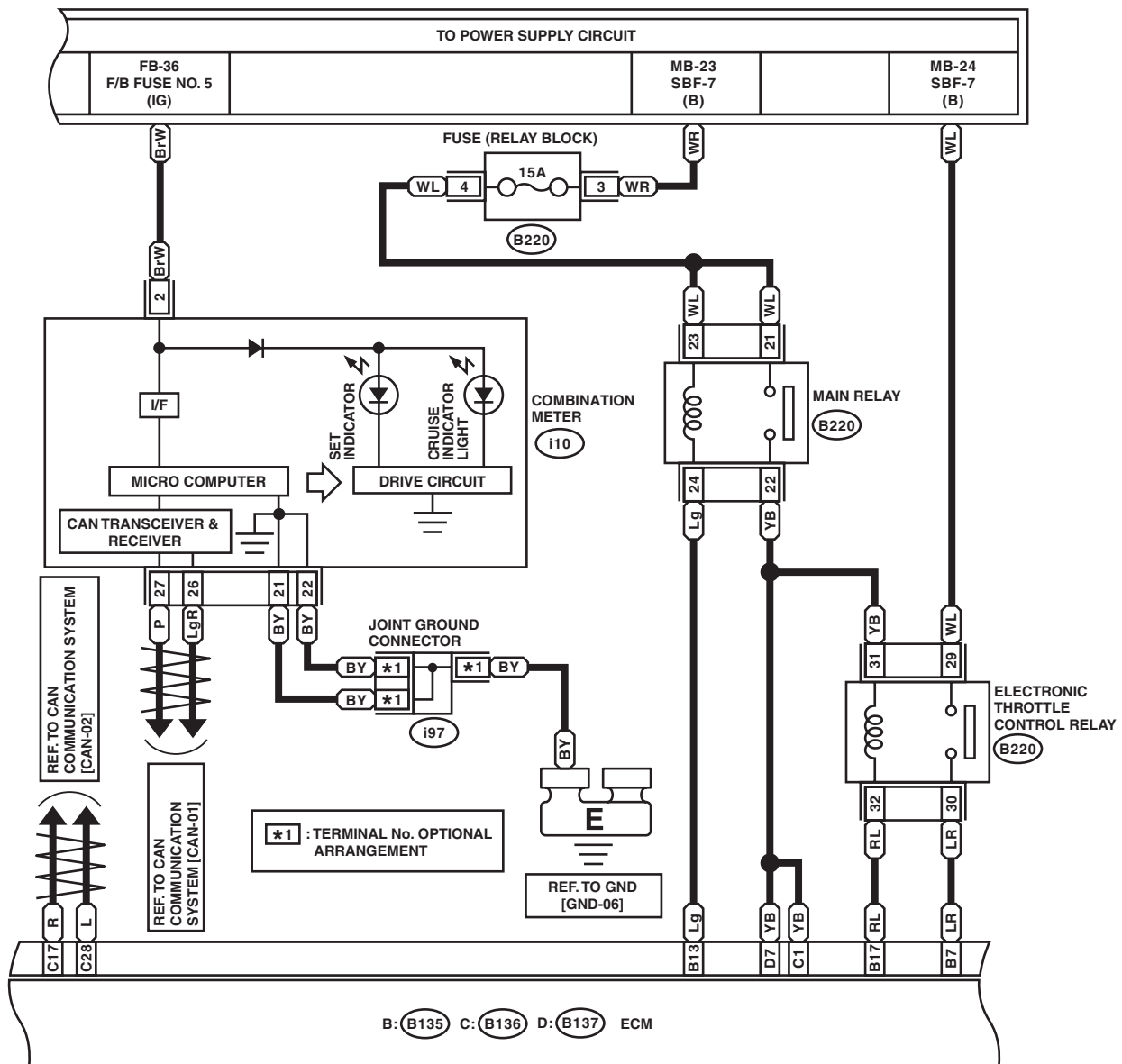
WI-30485

Cruise Control System

WIRING SYSTEM

C/C(S)-03

C/C(S)-03



i97 (BLACK)

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

D: B137

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

B: B135

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

B220 (BLACK)

1	2	9	13	17	21
3	4	10	14	18	22
5	6	11	15	19	23
7	8	12	16	20	24
25	29	33	37		
26	30	34	38		
27	28	31	32	35	36
39	40				

RELAY BLOCK

C: B136

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

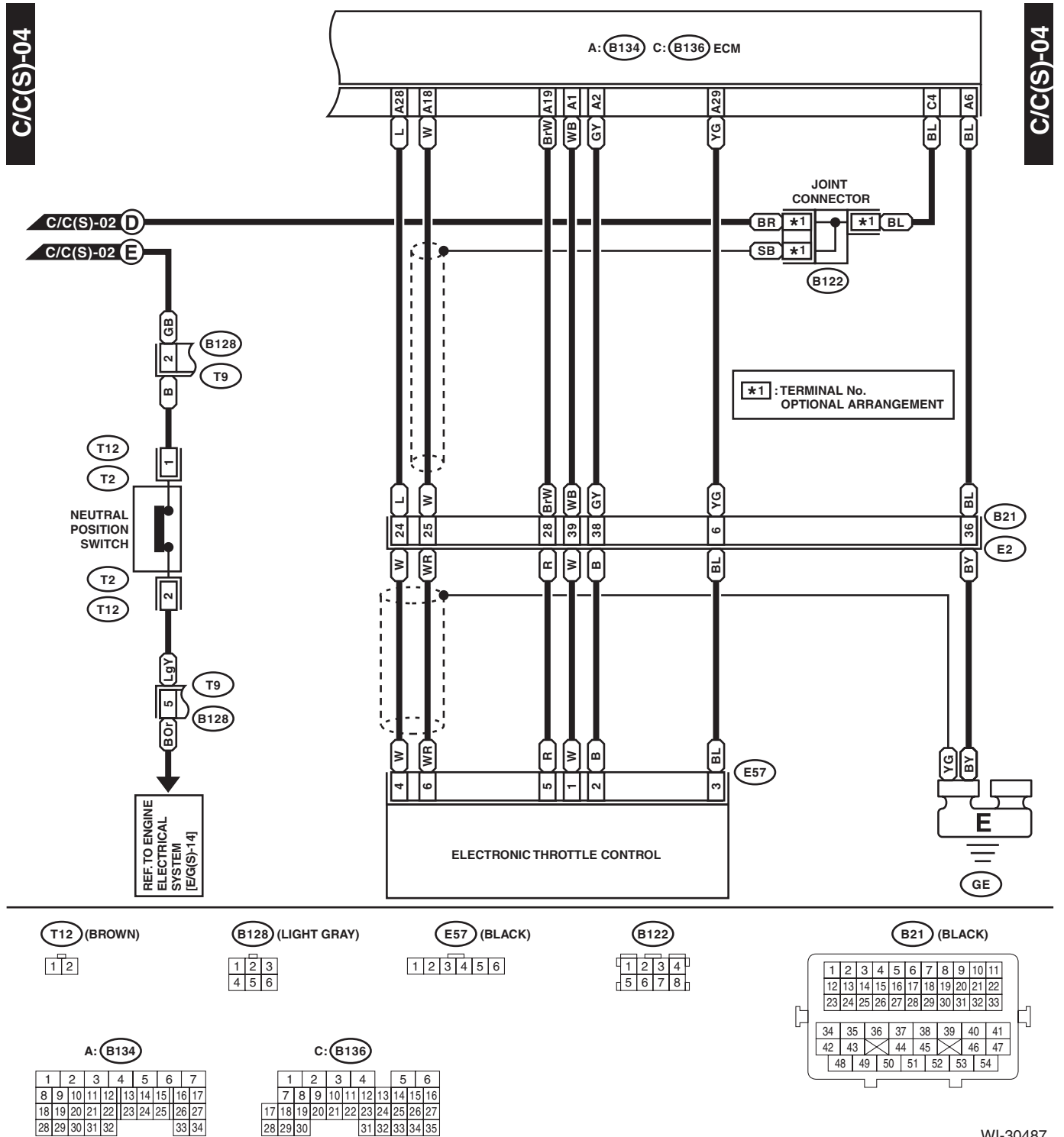
i10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

WI-33880

Cruise Control System

WIRING SYSTEM



WI-30487

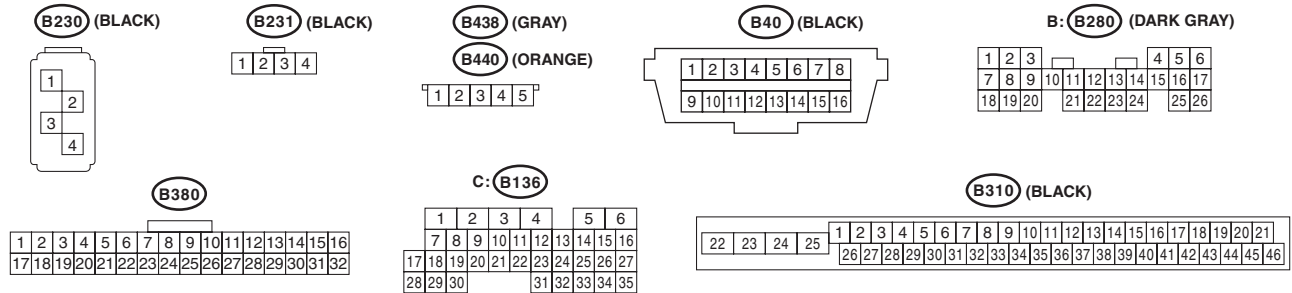
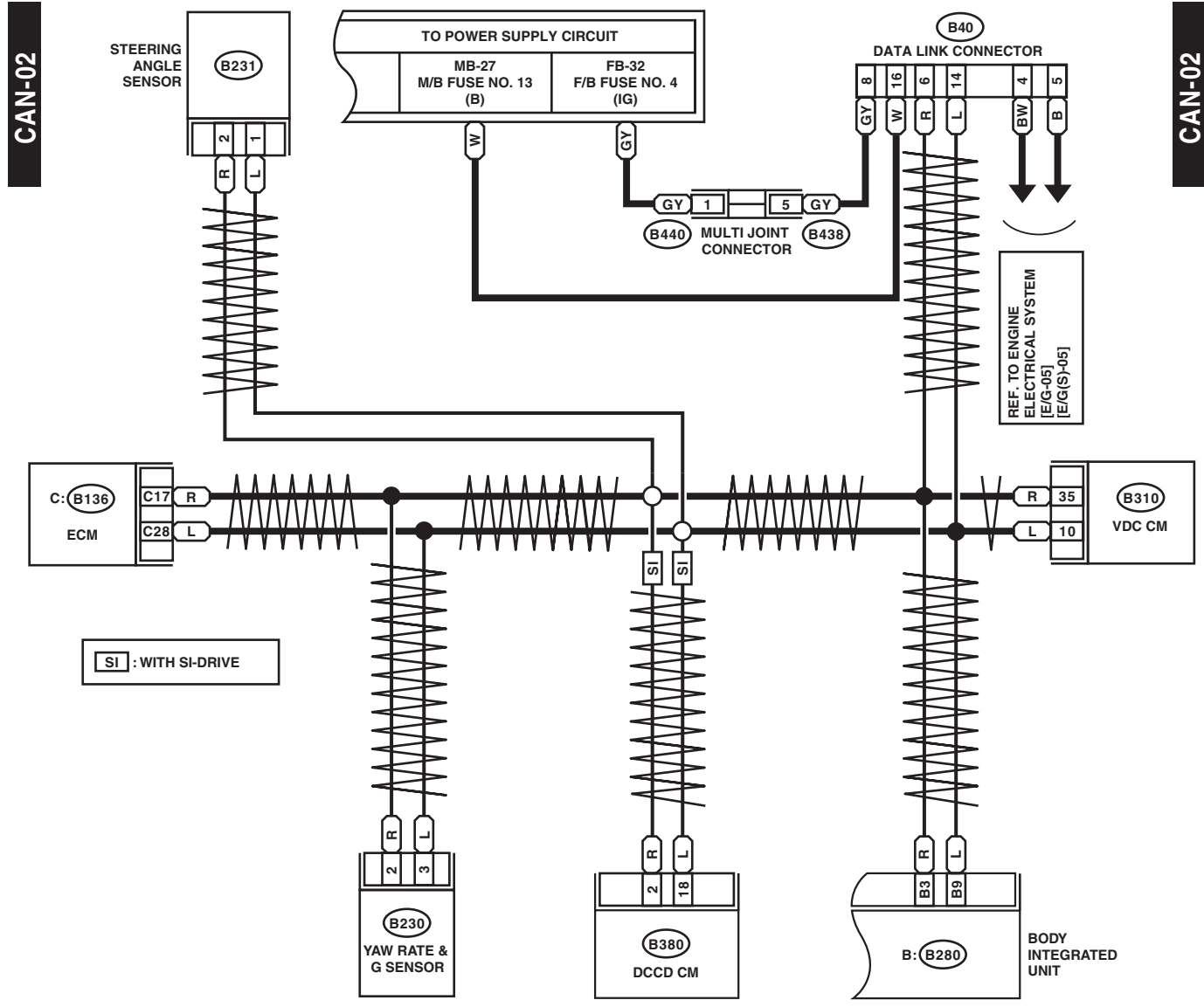
1. LOW-SPEED CAN



CAN Communication System

WIRING SYSTEM

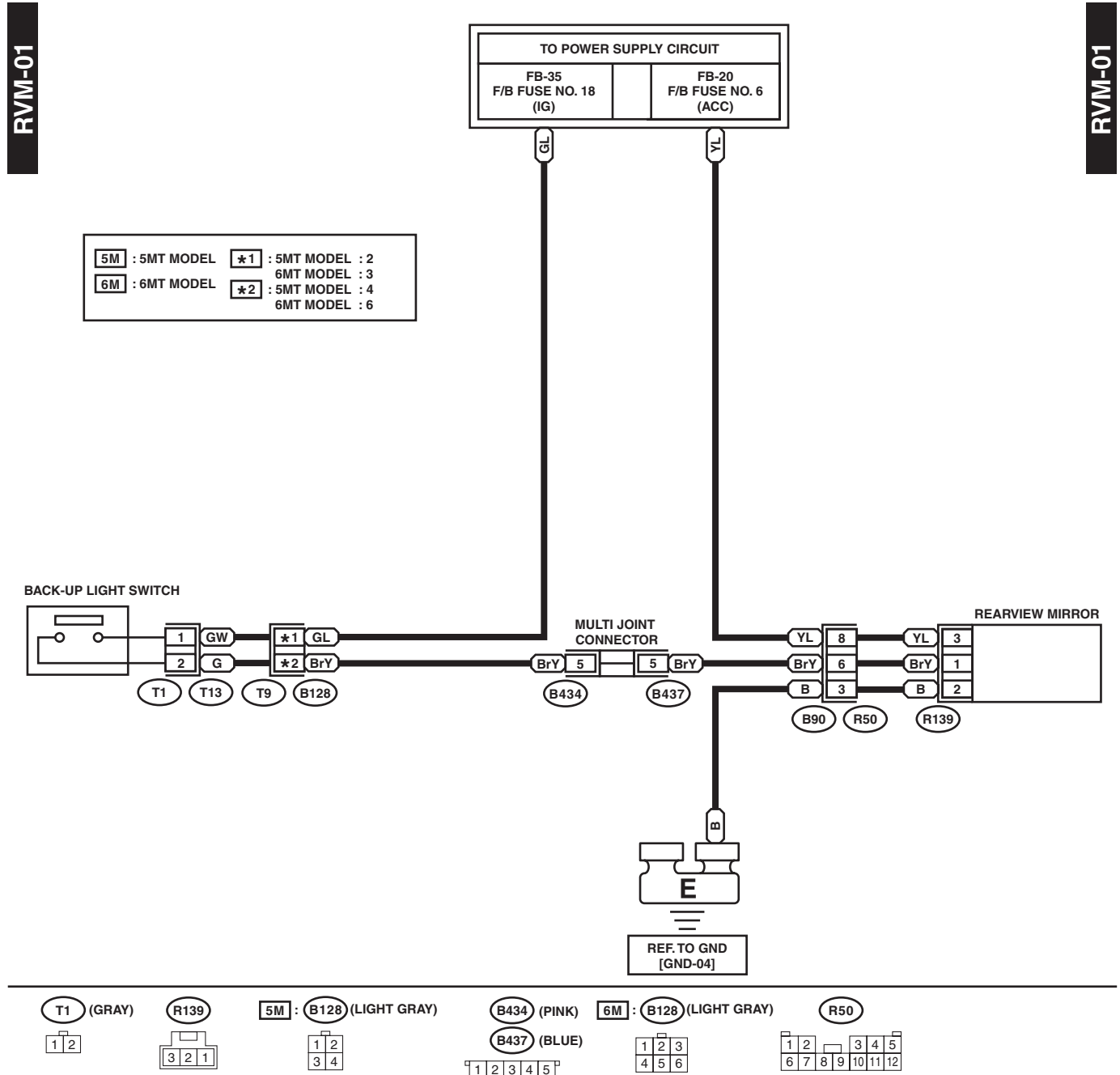
2. HIGH-SPEED CAN



WI-37595

50.Rearview Mirror System

A: WIRING DIAGRAM



WI-30489

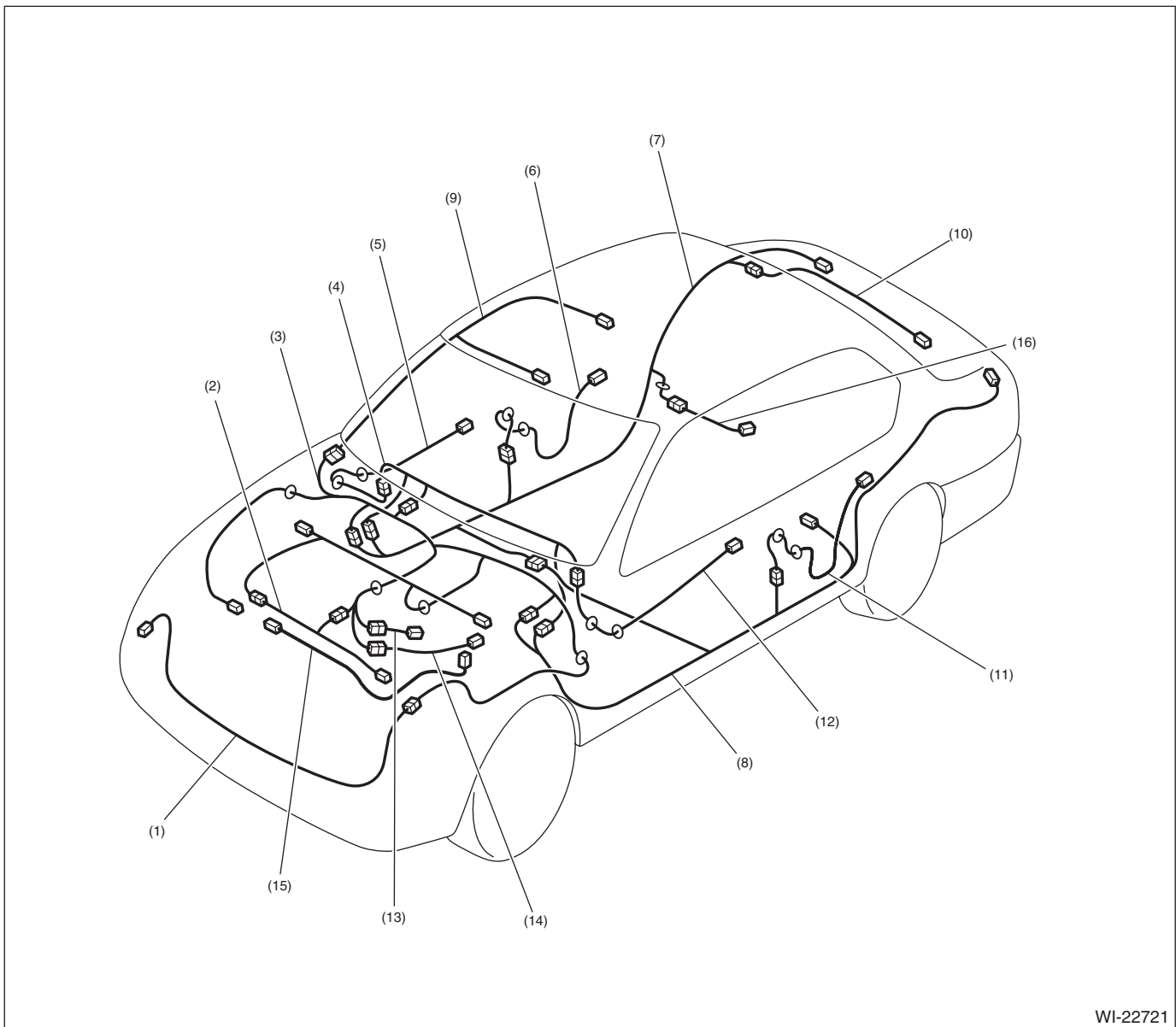
Harness Components Location

WIRING SYSTEM

51. Harness Components Location

A: LOCATION

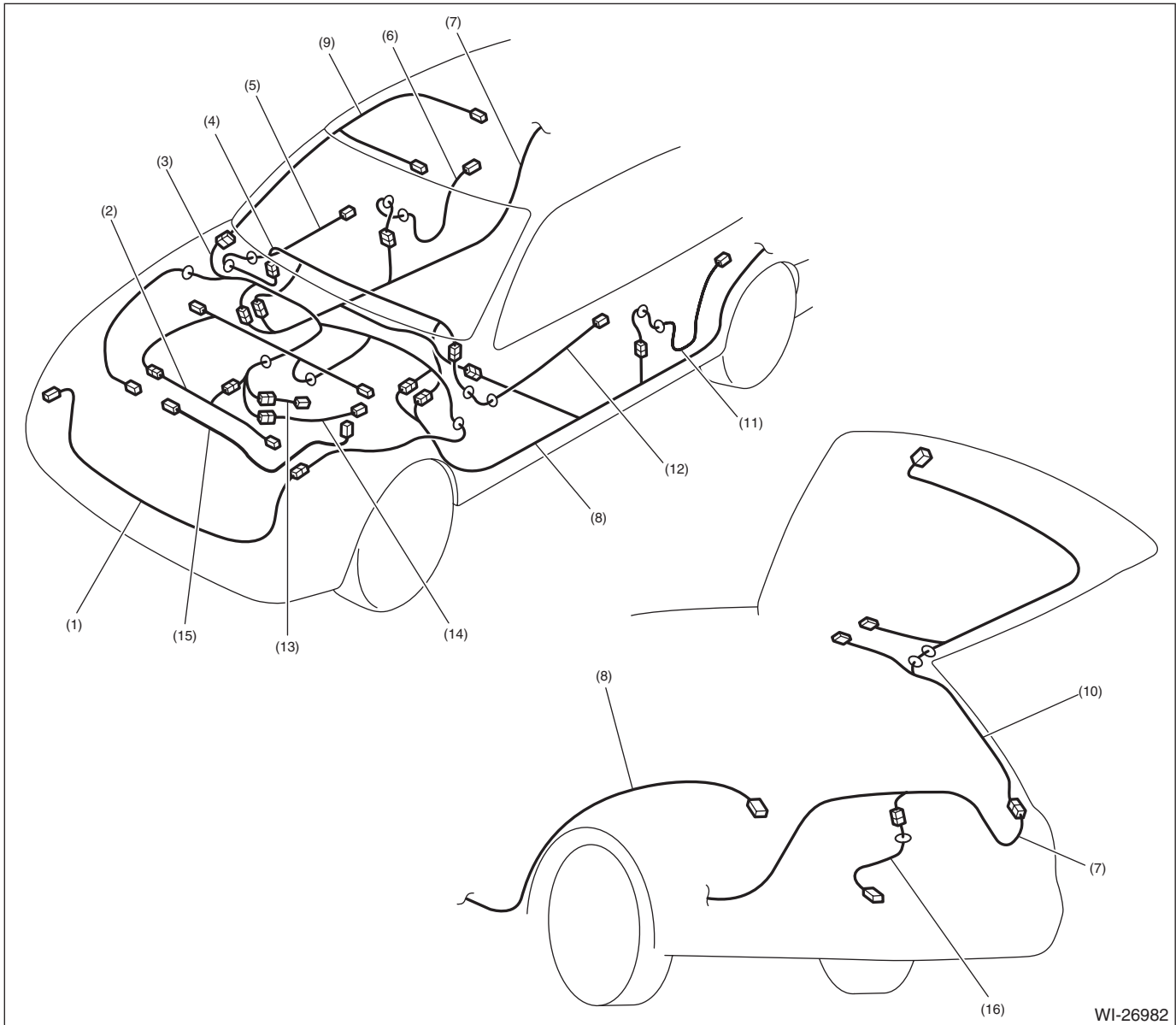
1. 4 DOOR MODEL



WI-22721

- | | | |
|-------------------------------------|----------------------------|------------------------------|
| (1) Front wiring harness | (7) Rear wiring harness RH | (12) Front door cord LH |
| (2) Engine wiring harness | (8) Rear wiring harness LH | (13) Transmission cord |
| (3) Bulkhead wiring harness | (9) Roof cord | (14) Rear oxygen sensor cord |
| (4) Instrument panel wiring harness | (10) Trunk lid cord | (15) Generator cord |
| (5) Front door cord RH | (11) Rear door cord LH | (16) Fuel cord |
| (6) Rear door cord RH | | |

2. 5 DOOR MODEL



WI-26982

- | | | |
|-------------------------------------|----------------------------|------------------------------|
| (1) Front wiring harness | (7) Rear wiring harness RH | (12) Front door cord LH |
| (2) Engine wiring harness | (8) Rear wiring harness LH | (13) Transmission cord |
| (3) Bulkhead wiring harness | (9) Roof cord | (14) Rear oxygen sensor cord |
| (4) Instrument panel wiring harness | (10) Rear gate cord | (15) Generator cord |
| (5) Front door cord RH | (11) Rear door cord LH | (16) Fuel cord |
| (6) Rear door cord RH | | |

Front Wiring Harness

WIRING SYSTEM

52.Front Wiring Harness

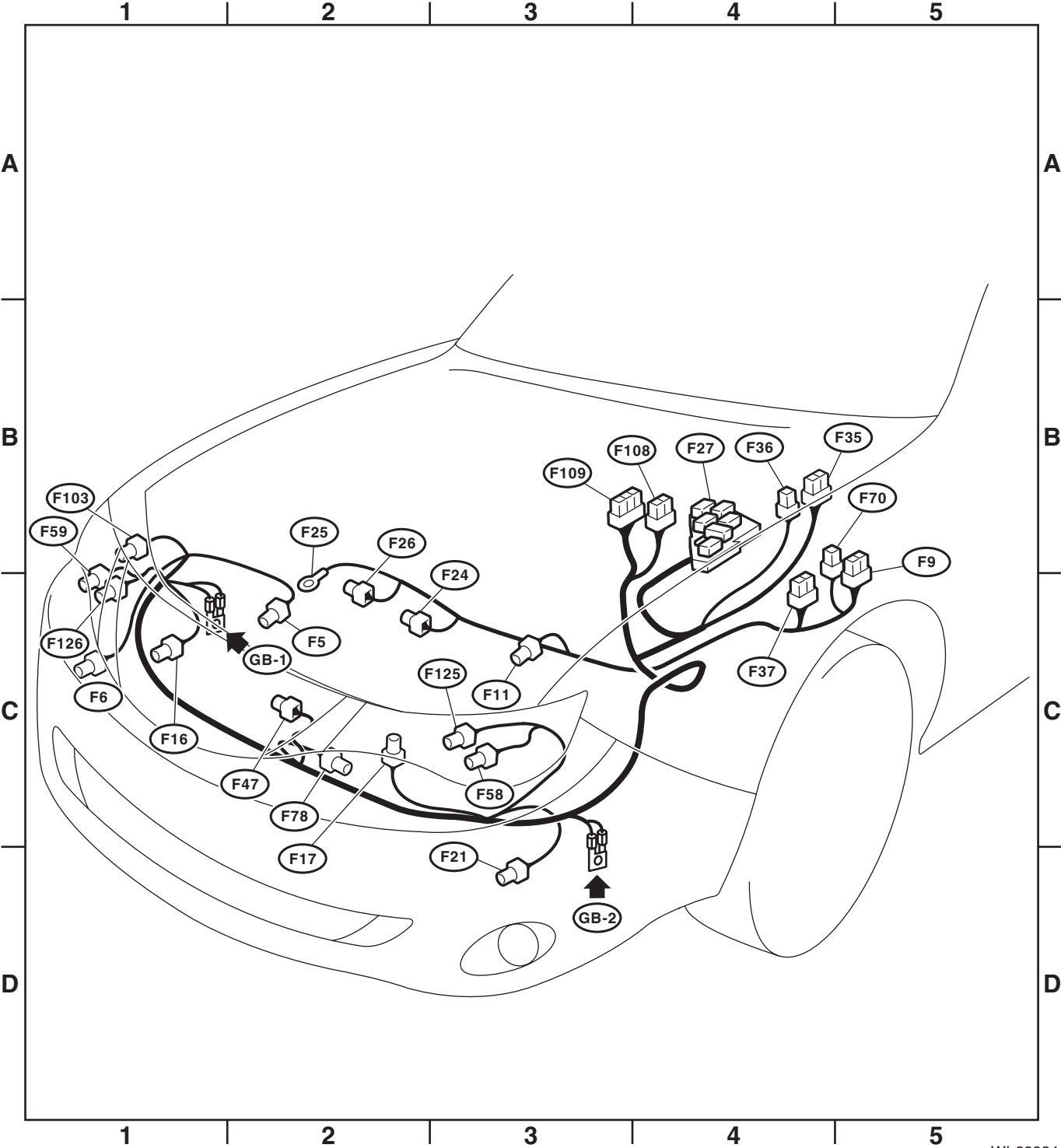
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
F5	1	Black	C-2		Horn
F6	2	Brown	C-1		Front fog light RH
F9	16	★	B-5		Secondary air relay holder
F11	2	★	C-3		Secondary air pump
F16	2	Gray	C-1		Sub fan motor
F17	2	Gray	C-2		Main fan motor
F21	2	Brown	D-3		Front fog light LH
F24	1	★	C-2		Magnet clutch
F25	1	★	C-2		Generator terminal B
F26	3	★	C-2		Generator
F27	22	Black	B-4		Relay holder
F35	12	Blue	B-4		Main fuse box (M/B)
F36	7	★	B-4		
F37	20	★	C-4		
F47	1	Black	C-2		Horn
F58	3	Light gray	C-3		Headlight beam leveler LH
F59	3	Light gray	C-1		Headlight beam leveler RH
F70	2	★	B-4		Main fuse box (M/B)
F78	2	Black	C-2		Ambient sensor
F103	2	Light gray	B-1		Daytime running light resistor
F108	18	Gray	B-4	B361	Through joint connector
F109	24	★	B-3	B360	
F125	8	Light gray	C-3		Front combination light LH
F126	8	Light gray	C-1		Front combination light RH

★ : White or natural color

Front Wiring Harness

WIRING SYSTEM



WI-28384

Bulkhead Wiring Harness (In Engine Compartment)

WIRING SYSTEM

53.Bulkhead Wiring Harness (In Engine Compartment)

A: LOCATION

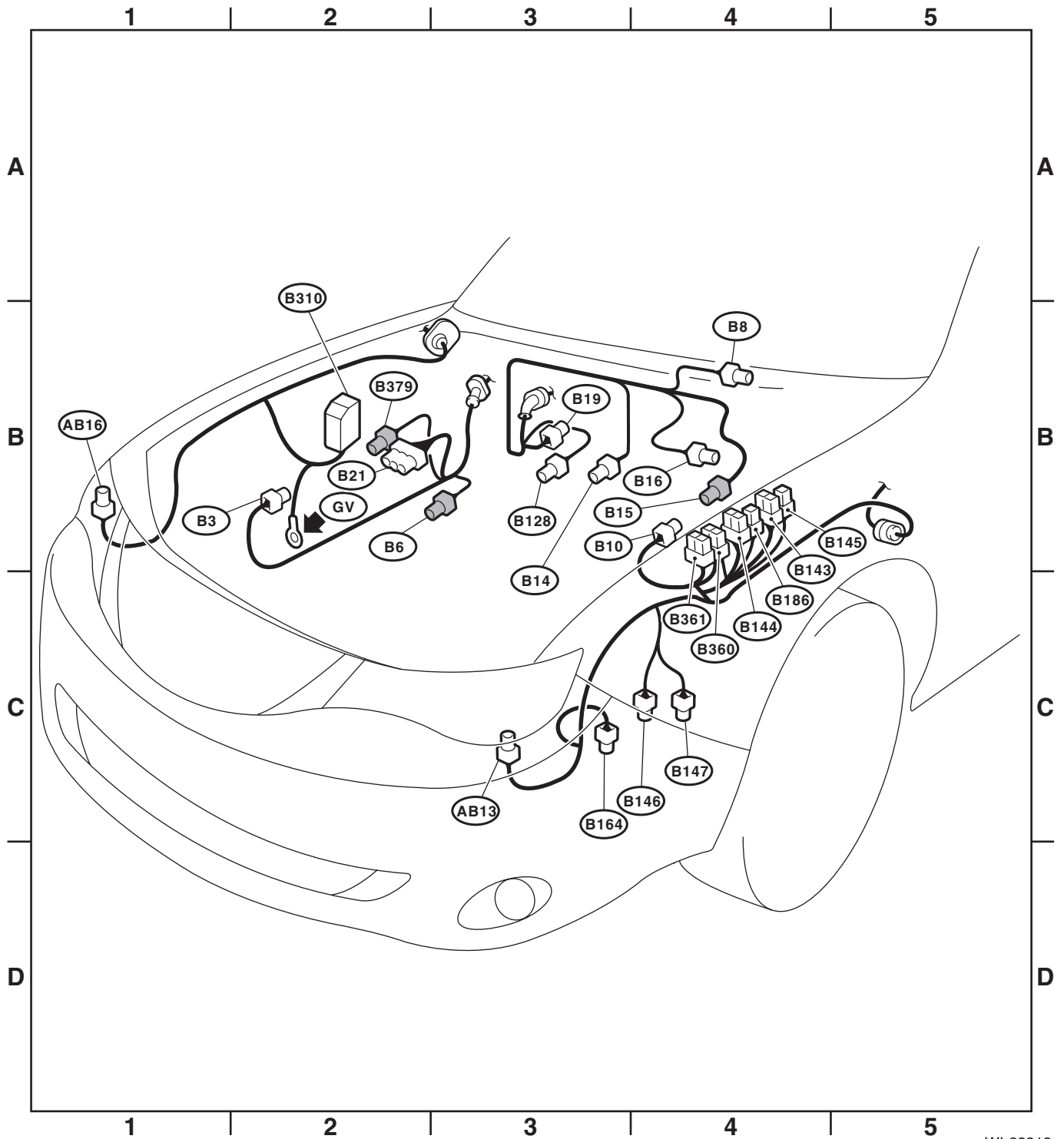
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B3	5	Black	B-2		Mass air flow and intake air temperature sensor
B6	2	Light gray	B-3		Front ABS wheel speed sensor RH
B8	5	Light gray	B-4		Front wiper motor
B10	4	Light gray	B-4		Pressure switch
B14	1	Black	B-3		Starter motor
B15	2	Light gray	B-4		Front ABS wheel speed sensor LH
B16	2	Gray	B-4		Brake fluid level switch
B19	4	Light gray	B-3	T5	Rear oxygen sensor
B21	54	Black	B-2	E2	Engine wiring harness
B128	4	Light gray	B-3	T9	Transmission cord (5MT model)
	6	Light gray	B-3	T9	Transmission cord (6MT model)
B143	20	★	B-4		Main fuse box (M/B)
B144	9	Brown	B-4		
B145	7	Brown	B-4		
B146	2	Dark gray	C-4		Front washer motor
B147	2	Green	C-4		Rear washer motor
B164	2	Black	C-3		Keyless buzzer
B186	8	★	B-4		Main fuse box (M/B)
B310	46	Black	B-2		VDC CM
B360	16	Gray	B-4	F109	Through joint connector
B361	14	Gray	B-4	F108	
B379	4	Dark gray	B-2		Front oxygen (A/F) sensor

★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB13	2	Yellow	C-3		Front sub sensor LH
AB16	2	Yellow	B-1		Front sub sensor RH

Bulkhead Wiring Harness (In Engine Compartment)

WIRING SYSTEM



WI-22813

Bulkhead Wiring Harness (In Compartment)

WIRING SYSTEM

54. Bulkhead Wiring Harness (In Compartment)

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B27	4	★	B-3		Blower Resistor (manual A/C)
B31	6	★	C-1	AB1	Airbag wiring harness
B32	8	★	C-2		Turn signal and hazard unit
B36	28	★	B-4	i1	Instrument panel wiring harness
B38	28	★	B-2	i3	
B40	16	Black	C-2		Data link connector
B41	2	★	B-2		Power window circuit breaker
B52	24	★	B-2		Fuse & relay box (F/B)
B57	4	★	B-3		Power transistor (auto A/C)
B65	4	★	C-2		Stop light & brake switch (4 door model)
		Black	C-2		Stop light & brake switch (5 door model)
B68	14	★	C-2		Roll connector
B70	18	★	C-3		Combination switch
B71	17	★	C-2		
B72	6	★	C-2		Ignition switch
B75	2	Green	B-4	B76	Delivery (test) mode connector
B76	2	Green	B-4	B75	
B77	6	★	B-3		Mode door actuator (auto A/C)
B83	6	★	C-4		Joint Connector
B87	2	★	B-4		Blower motor
B88	2	Brown	B-3		Evaporator sensor (auto A/C)
	3	★	B-3		Evaporator sensor (manual A/C)
B89	2	Black	B-5		Blower diode
B90	12	★	B-5	R50	Roof cord
B92	20	★	C-1	R5	Rear wiring harness
B97	12	★	C-5	R1	
B98	20	★	C-5	R2	
B99	12	★	C-1	R3	
B106	2	★	C-2		Clutch start switch
B107	2	Blue	C-2		Clutch switch
B122	8	★	C-4		Joint Connector
B134	34	★	C-4		ECM
B135	35	★	C-4		
B136	35	★	C-4		
B137	31	★	C-4		
B138	6	★	C-4		Joint Connector
B152	10	Gray	B-2		Fuse & relay box (F/B)
B158	8	★	B-2		
B159	9	Brown	B-2		
B162	2	★	B-2		
B163	6	Black	C-4		Intake door actuator
B177	2	★	B-5		Wiper deicer

Bulkhead Wiring Harness (In Compartment)

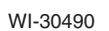
WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B220	40	Black	B-4		Fuse (relay block)
					A/F, oxygen sensor relay
					Fuel pump relay
					DCCD relay
					IG relay
					Main relay
					Electronic throttle control relay
B224	2	★	C-2		Key illumination
B225	40	Black	C-2		Fuse (relay block)
					Starter relay
					Front fog light relay
					Power window relay
					Wiper deicer relay
					Tail & Illumination relay
					Seat heater relay
B230	4	Black	D-4		Yaw rate & G sensor
B231	4	Black	C-2		Steering angle sensor
B239	6	★	B-3		Air mix door actuator
B279	30	★	C-3		Body integrated unit
B280	26	Dark gray	C-3		
B281	28	★	C-3		
B315	6	Black	C-3		Accelerator pedal position sensor
B318	4	★	B-1		VDC OFF switch
B350	4	★	C-2		Key warning switch & key lock solenoid
B363	2	Green	C-1	B364	Test mode sub connector
B364	2	Green	C-1	B363	
B367	8	★	C-2		Impact sensor
B380	32	★	C-3		DCCD CM
B386	4	★	B-4		Blower motor relay
B415	2	Black	B-2		Immobilizer antenna
B431	2	★	C-2		Foot light LH
B434	5	Pink	D-1		Multi joint connector
B435	5	Brown	D-1		
B436	5	Yellow	D-1		
B437	5	Blue	D-1		
B438	5	Gray	D-1		
B439	5	Green	D-1		
B440	5	Orange	D-1		
B441	5	★	D-1		
B442	5	Black	D-2		
B443	5	Red	D-2		
B444	5	Light green	D-2		
B445	5	Violet	D-2		
B447	2	★	C-4	AD4	STI illumination

★ : White or natural color

WIRING SYSTEM

WIRING SYSTEM



55.Engine Wiring Harness and Transmission Cord

A: LOCATION

1. WITHOUT SI-DRIVE

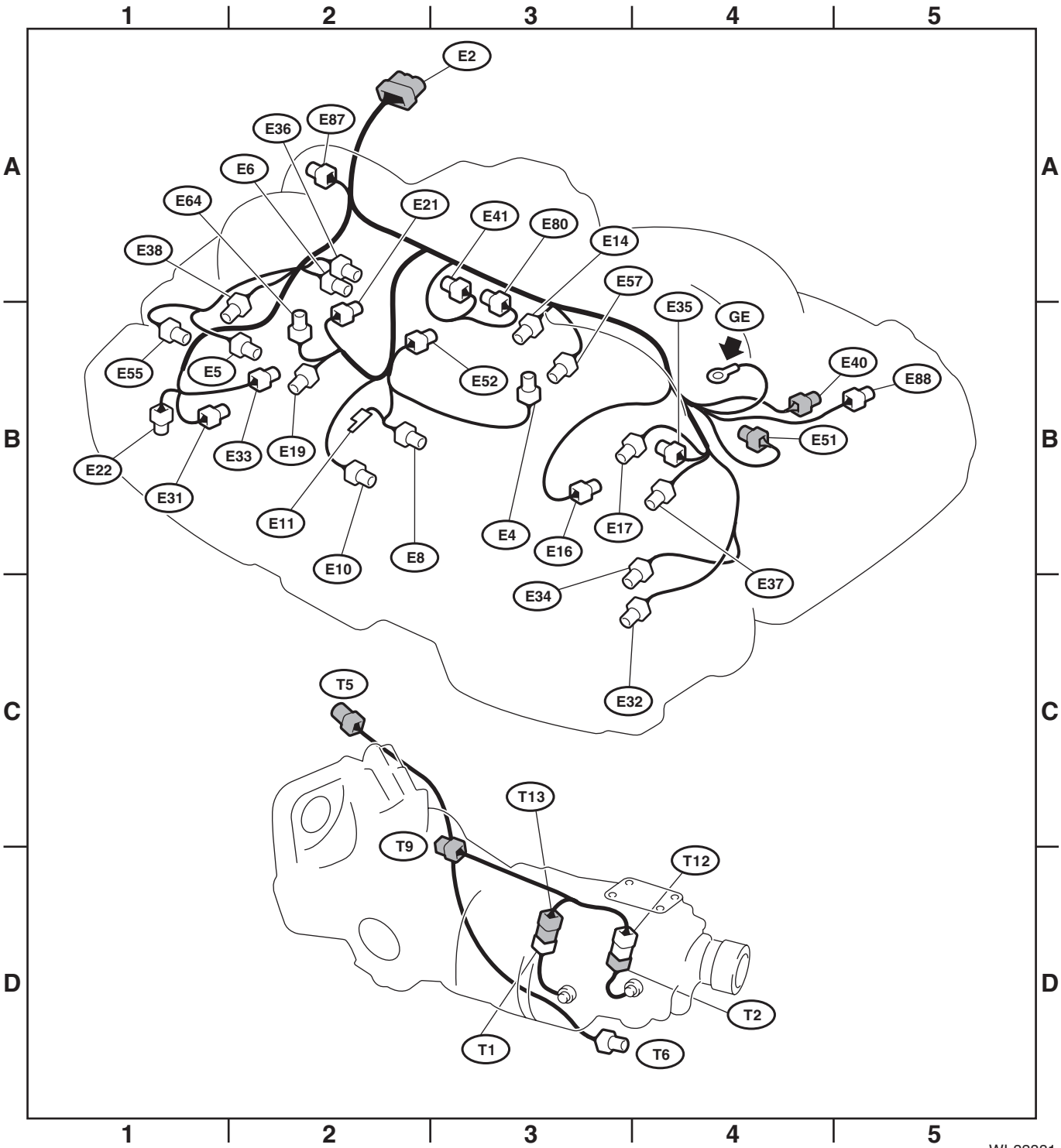
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
E2	54	Black	A-2	B21	Bulkhead wiring harness
E4	2	Black	B-3		Purge control solenoid valve 1
E5	2	Dark gray	B-2		Fuel injector No. 1
E6	2	Dark gray	A-2		Fuel injector No. 3
E8	2	Black	B-2		Engine coolant temperature sensor
E10	2	Light gray	B-2		Crankshaft position sensor
E11	1	—	B-2		Oil pressure switch
E14	2	Light gray	B-3		Knock sensor
E16	2	Dark gray	B-3		Fuel injector No. 2
E17	2	Dark gray	B-4		Fuel injector No. 4
E19	1	★	B-2		Power steering oil pressure switch
E21	3	Black	B-2		Manifold absolute pressure sensor
E22	4	Dark gray	B-1		Front oxygen (A/F) sensor
E31	3	Gray	B-1		Ignition coil No. 1
E32	3	Gray	C-4		Ignition coil No. 2
E33	3	Gray	B-2		Ignition coil No. 3
E34	3	Gray	C-4		Ignition coil No. 4
E35	3	Light gray	B-4		Camshaft position sensor LH
E36	3	Light gray	A-2		Camshaft position sensor RH
E37	2	Blue	B-4		Oil flow control solenoid valve LH
E38	2	Blue	B-2		Oil flow control solenoid valve RH
E40	2	Black	B-4		Secondary air combination valve LH
E41	6	Black	A-3		Secondary air combination valve RH
E51	5	Light gray	B-4		Tumble generator valve assembly LH
E52	2	Black	B-2		Purge control solenoid valve 2
E55	5	Light gray	B-1		Tumble generator valve assembly RH
E57	6	Black	B-3		Electronic throttle control
E64	2	Blue	B-2		Wastegate control solenoid valve
E80	2	Dark gray	B-3		Leak diagnosis connector 1
E87	2	Dark gray	A-2		Leak diagnosis connector 2
E88	2	Dark gray	B-5		Leak diagnosis connector 3

★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T1	2	Gray	D-3	T13	Transmission cord
T2	2	Brown	D-3	T12	
T5	4	Dark gray	C-2	B19	Bulkhead wiring harness
T6	4	Dark gray	D-3		Rear oxygen sensor
T9	4	Gray	D-3	B128	Bulkhead wiring harness
T12	2	Brown	D-3	T2	Neutral position switch
T13	2	Gray	D-3	T1	Back-up light switch

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM



WI-33881

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM

2. WITH SI-DRIVE

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
E2	54	Black	A-2	B21	Bulkhead wiring harness
E4	2	Black	B-2		Purge control solenoid valve 1
E5	2	Dark gray	A-1		Fuel injector No. 1
E6	2	Dark gray	A-2		Fuel injector No. 3
E8	2	Black	B-2		Engine coolant temperature sensor
E10	2	Light gray	B-3		Crankshaft position sensor
E11	1	—	B-2		Oil pressure switch
E14	2	Light gray	A-3		Knock sensor
E16	2	Dark gray	B-4		Fuel injector No. 2
E17	2	Dark gray	B-4		Fuel injector No. 4
E19	1	★	B-2		Power steering oil pressure switch
E21	3	Black	A-3		Manifold absolute pressure sensor
E31	3	Gray	A-1		Ignition coil No. 1
E32	3	Gray	B-4		Ignition coil No. 2
E33	3	Gray	A-2		Ignition coil No. 3
E34	3	Gray	B-5		Ignition coil No. 4
E35	3	Light gray	A-4		Intake camshaft position sensor LH
E36	3	Light gray	A-2		Intake camshaft position sensor RH
E37	2	Blue	B-4		Intake oil flow control solenoid valve LH
E38	2	Blue	A-2		Intake oil flow control solenoid valve RH
E40	6	Black	A-4		Secondary air combination valve LH
E41	2	Black	A-3		Secondary air combination valve RH
E51	5	Light gray	B-5		Tumble generator valve assembly LH
E52	2	Black	B-2		Purge control solenoid valve 2
E55	5	Light gray	A-2		Tumble generator valve assembly RH
E57	6	Black	A-3		Electronic throttle control
E62	3	Light gray	B-1		Exhaust camshaft position sensor RH
E63	2	Blue	B-1		Exhaust oil flow control solenoid valve RH
E64	2	Blue	A-3		Wastegate control solenoid valve
E65	3	Light gray	B-4		Exhaust camshaft position sensor LH
E66	2	Blue	B-3		Exhaust oil flow control solenoid valve LH
E80	2	Dark gray	A-3		Leak diagnosis connector 1
E87	2	Dark gray	B-3		Leak diagnosis connector 2

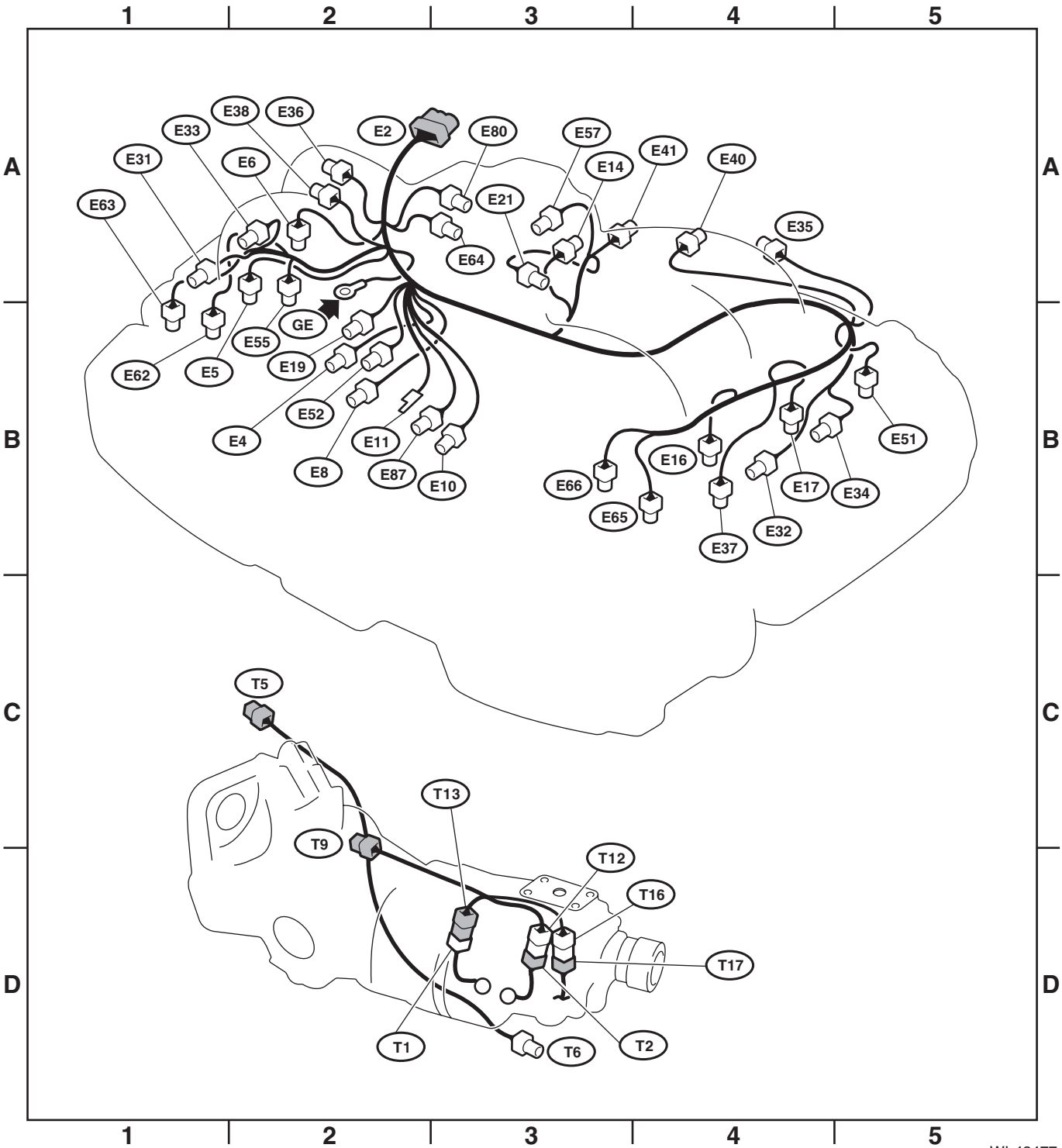
★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T1	2	Gray	D-3	T13	Transmission cord
T2	2	Brown	D-3	T12	
T5	4	Dark gray	C-2	B19	Bulkhead wiring harness
T6	4	Dark gray	D-3		Rear oxygen sensor
T9	6	Gray	C-2	B128	Bulkhead wiring harness
T12	2	Brown	D-3	T2	Neutral position switch
T13	2	Gray	D-3	T1	Back-up light switch
T16	2	★	D-3	T17	Center differential wiring harness
T17	2	★	D-3	T16	Transmission cord

★ : White or natural color

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM



WI-42477

56. Instrument Panel Wiring Harness

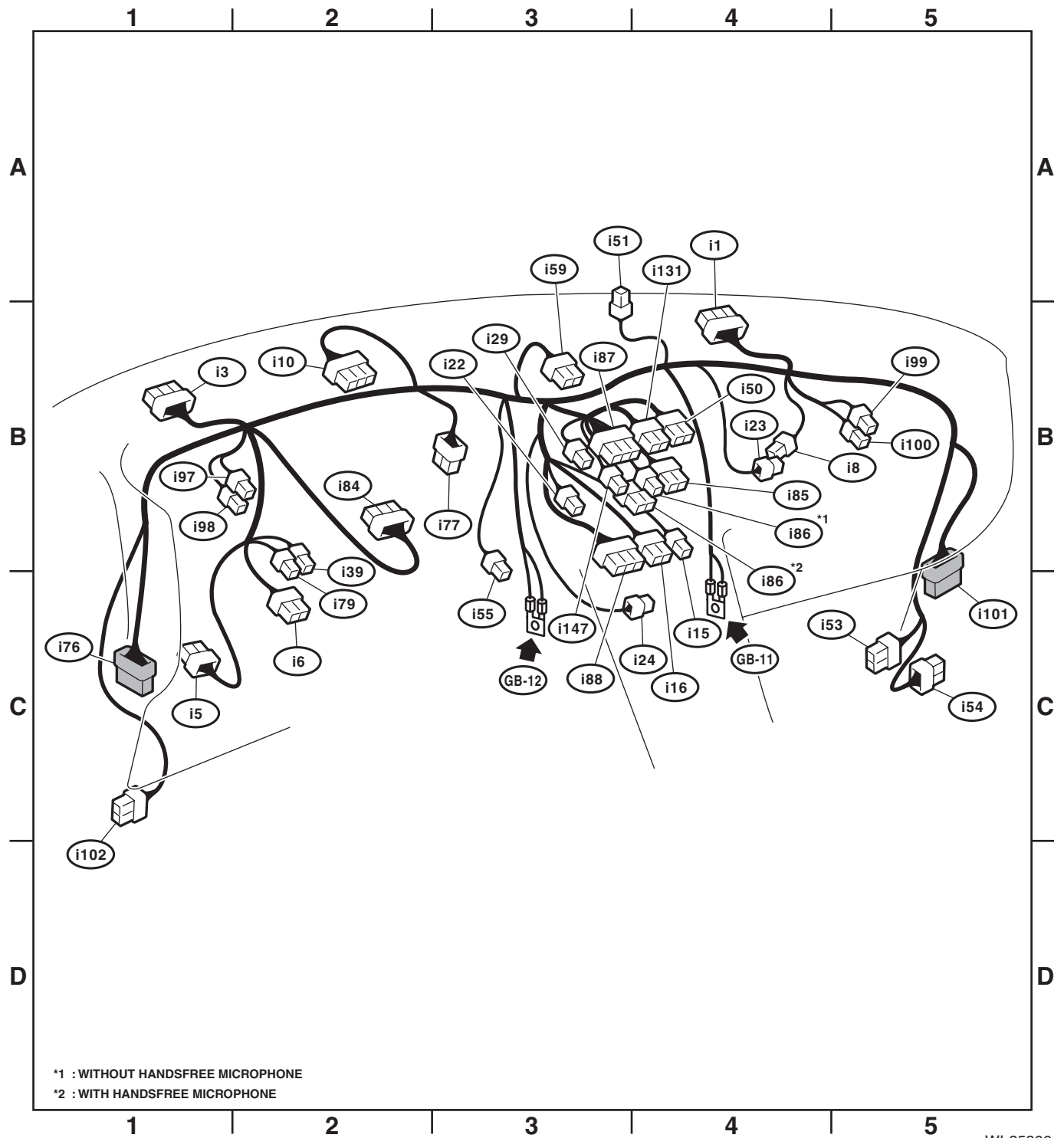
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
i1	28	★	B-4	B36	Bulkhead wiring harness
i3	28	★	B-1	B38	
i5	20	★	C-1		Fuse & relay box (F/B)
i6	10	★	C-2		Remote control mirror switch
i8	2	★	C-5		Foot light RH
i10	40	★	B-2		Combination meter
i15	6	★	B-4		Blower fan switch (manual A/C)
i16	12	★	B-4		A/C control panel (manual A/C)
i22	4	★	B-3		Hazard switch
i23	2	★	B-4		Glove box light
i24	4	★	C-4	AD1	Adapter cord (front accessory power supply socket, pocket light)
i29	1	Black	B-3		Audio bracket ground
i39	8	★	C-2		Headlight beam leveler switch
i50	10	★	B-4		Navigation unit
i51	2	★	B-3		Sunload sensor
i53	16	★	C-5	R98	Rear wiring harness RH
i54	10	★	C-5	R99	Rear wiring harness RH
i55	2	★	B-3		In-vehicle sensor
i59	10	★	B-3		Clock
i76	28	★	C-1	D83	Front door cord LH
i77	10	Green	B-3		CAN joint connector
i79	6	Gray	B-2		Illumination control switch
i84	35	Gray	B-2		Body integrated unit
i85	20	★	B-4		Audio
i86	8	Black	B-4		Audio (without handsfree microphone)
	16	★	B-4		Audio (with handsfree microphone)
i87	28	★	B-3		Navigation unit
i88	40	★	B-3		A/C control panel (auto A/C)
i97	8	Black	B-2		Joint ground connector
i98	8	Black	B-1		
i99	8	Black	B-5		
i100	8	Black	B-5		
i101	25	★	C-5	D84	Front door cord RH
i102	16	★	C-1	R167	Rear wiring harness LH
i131	16	★	B-4		Navigation unit
i147	6	★	B-3		

★ White or natural color

Instrument Panel Wiring Harness

WIRING SYSTEM



57.Rear Wiring Harness

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R1	12	★	B-1	B97	Bulkhead wiring harness
R2	20	★	B-1	B98	
R3	12	★	C-3	B99	
R4	1	★	C-3		Parking brake switch
R5	20	★	C-3	B92	Bulkhead wiring harness
R9	3	★	C-4		Front door switch LH
R10	8	★	C-4	D22	Rear door cord LH
R12	3	★	B-2		Front door switch RH
R13	8	★	B-2	D28	Rear door cord RH
R15	12	★	B-4	R57	Fuel cord
R16	3	★	A-3		Rear door switch RH
R32	2	★	B-3		Rear accessory power supply socket (without SI-DRIVE)
R33	10	★	C-2	AD10	Multi select switch (with SI-DRIVE)
R34	20	★	C-3	AD6	Adapter cord
R41	4	★	C-3		Seat heater LH
R42	4	★	B-3		Seat heater switch RH (without SI-DRIVE)
R43	4	Blue	B-3		Seat heater switch LH (without SI-DRIVE)
R44	4	★	B-3		Seat heater RH
R50	12	★	B-1	B90	Bulkhead wiring harness
R52	3	★	A-3		Room light
R55	10	Light gray	B-3		Sunroof motor assembly
R56	2	★	B-2		Spot map light (with sunroof)
	6	★	B-2		Spot map light (without sunroof)
R57	12	★	B-4	R15	Rear wiring harness RH
R58	6	★	B-4		Fuel pump assembly
R59	2	★	B-5		Fuel sub level sensor
R62	6	★	B-3		Spot map light (with sunroof)
R64	3	★	B-2		Spot map light diode (with sunroof)
R68	2	Dark gray	B-4		Pressure control solenoid valve
R72	2	Light gray	B-4		Rear ABS wheel speed sensor RH
R73	2	Light gray	B-4		Rear ABS wheel speed sensor LH
R81	12	Black	C-3	R82	Rear wiring harness RH
R82	12	Black	B-3	R81	Rear wiring harness LH
R98	16	★	B-1	i53	Instrument panel wiring harness
R99	10	★	B-1	i54	
R107	4	★	C-3		Seat belt switch LH
R128	5	★	B-3		Sunroof switch
R139	3	★	B-3		Rear view mirror
R167	16	★	C-3	i102	Instrument panel wiring harness
R168	20	★	C-3		Fuse & relay box (F/B)
R187	5	Black	B-3		Sunroof switch (tilt)
R284	6	★	B-3		AUX input terminal

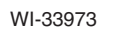
★ : White or natural color

Rear Wiring Harness

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB17	15	Yellow	C-2		Airbag CM
AB18	15	Yellow	C-2		
AB19	4	Yellow	C-3		Side airbag module LH
AB21	2	Black	C-4		Pretensioner LH
AB23	4	Yellow	C-4		Side airbag sensor LH
AB24	4	Yellow	B-2		Side airbag module RH
AB26	2	Black	B-2		Pretensioner RH
AB28	4	Yellow	B-2		Side airbag sensor RH
AB34	4	Yellow	B-3		Curtain airbag sensor RH
AB35	2	Black	C-3		Fuse & relay box (F/B)
AB41	2	Yellow	B-4		Satellite safing sensor
AB53	6	Gray	B-2		Occupant detection control module
AB56	3	Brown	B-3		Belt tension sensor

WIRING SYSTEM



Door Cord

WIRING SYSTEM

58.Door Cord

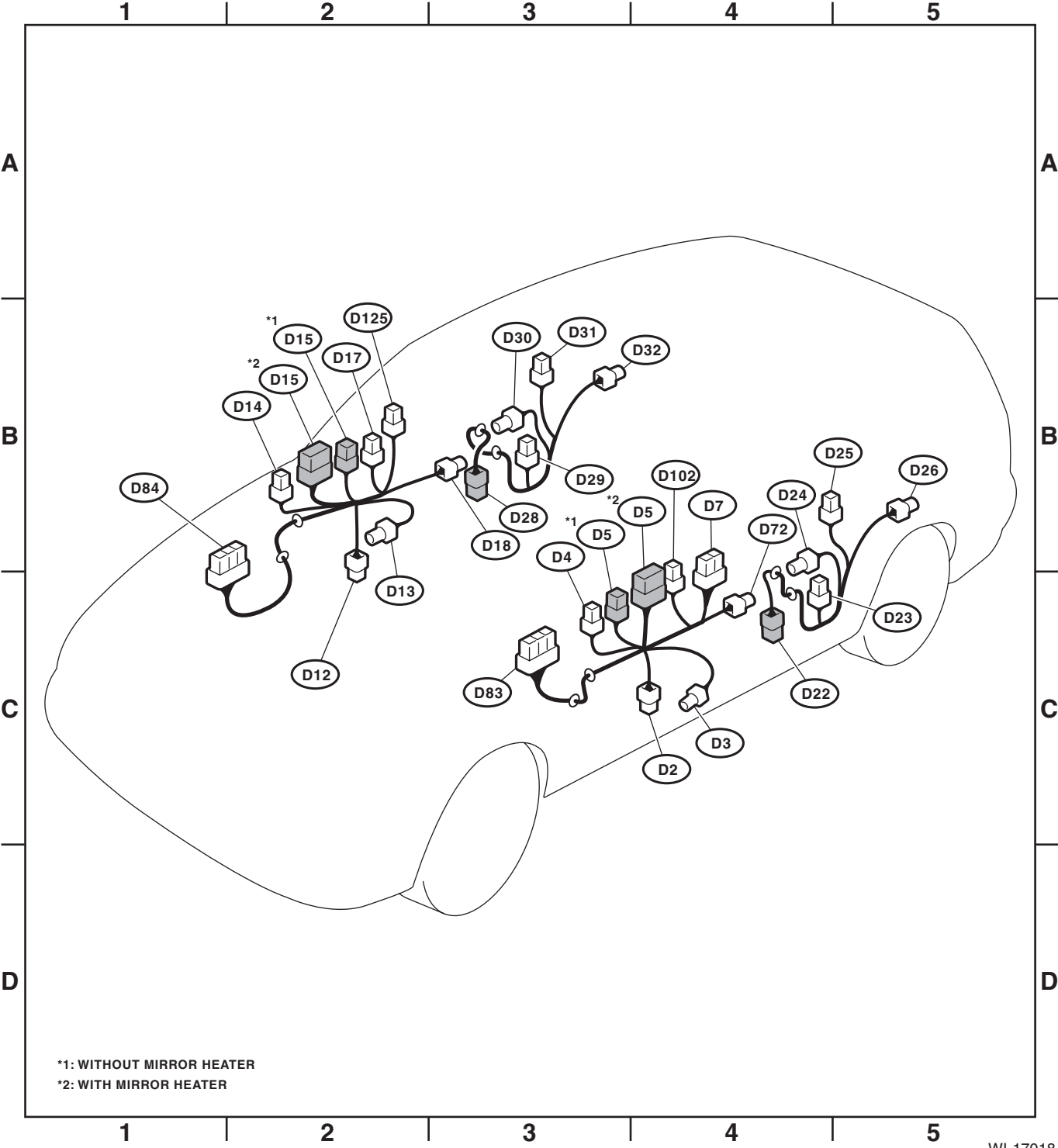
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D2	2	★	C-4		Front door speaker LH
D3	6	Dark gray	C-4		Front power window motor LH
D4	2	Black	C-3		Front door tweeter LH
D5	8	★	C-3		Outer mirror assembly LH (without mirror heater)
	10	★	C-4		Outer mirror assembly LH (with mirror heater)
D7	16	★	B-4		Power window main switch
D12	2	★	B-2		Front door speaker RH
D13	6	Dark gray	B-2		Front power window motor RH
D14	2	Black	B-2		Front door tweeter RH
D15	8	★	B-2		Outer mirror assembly RH (without mirror heater)
	10	★	B-2		Outer mirror assembly RH (with mirror heater)
D17	8	★	B-2		Front power window sub-switch
D18	2	★	B-3		Front door lock actuator RH
D22	8	★	C-4	R10	Rear wiring harness LH
D23	2	★	C-4		Rear door speaker LH
D24	6	Dark gray	B-4		Rear power window motor LH
D25	8	★	B-4		Rear power window sub-switch LH
D26	2	★	B-5		Rear door lock actuator LH
D28	8	★	B-3	R13	Rear wiring harness RH
D29	2	★	B-3		Rear door speaker RH
D30	6	Dark gray	B-3		Rear power window motor RH
D31	8	★	B-3		Rear power window sub-switch RH
D32	2	★	B-3		Rear door lock actuator RH
D72	2	★	C-4		Front door lock actuator LH
D83	28	★	C-3	i76	Instrument panel wiring harness
D84	25	★	B-2	i101	
D102	3	★	C-4		Power window main switch
D125	5	★	B-2		Passenger's seat door lock switch

★ : White or natural color

Door Cord

WIRING SYSTEM



WI-17018

Rear Wiring Harness and Trunk Lid Cord

WIRING SYSTEM

59.Rear Wiring Harness and Trunk Lid Cord

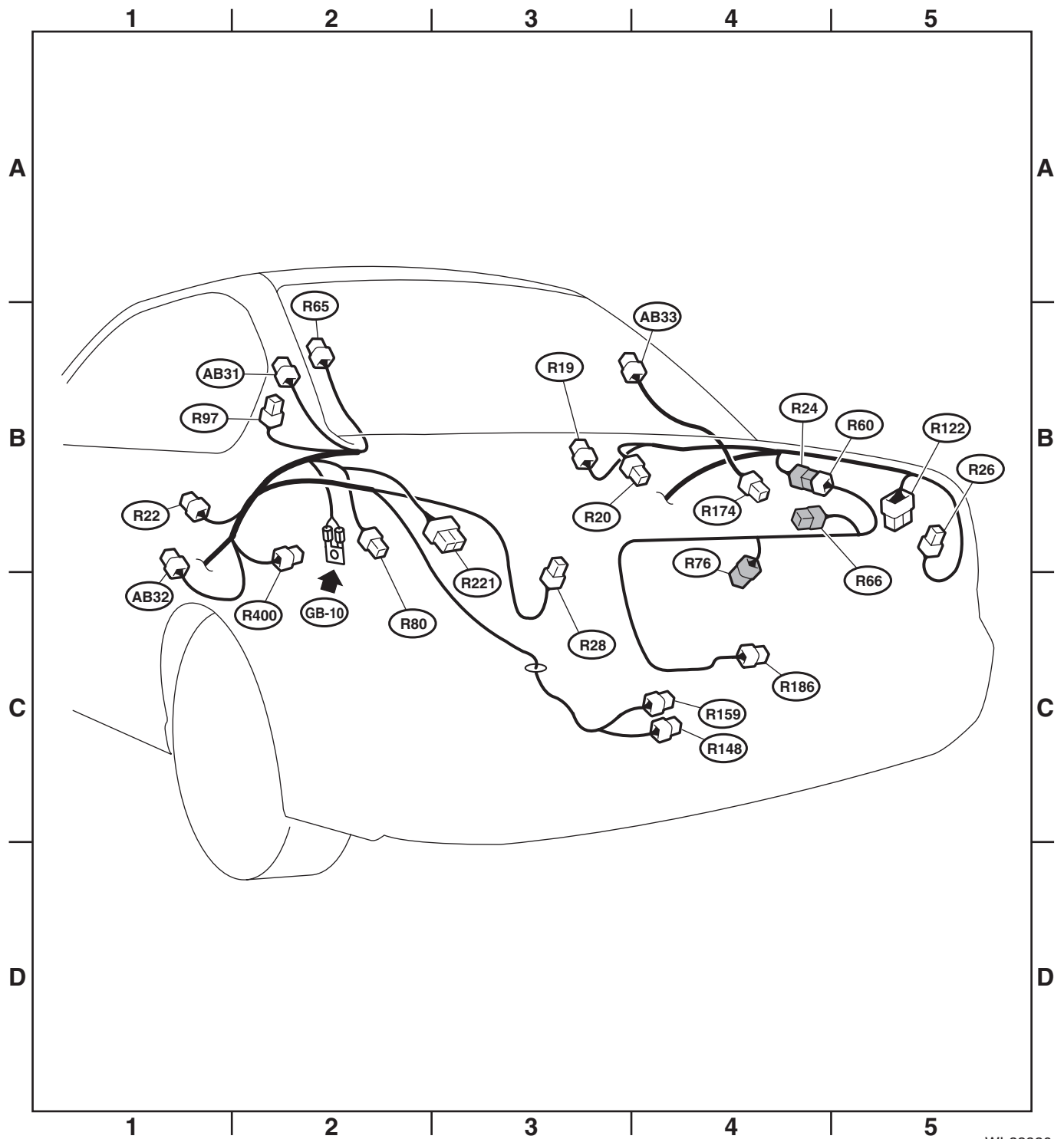
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R19	2	Blue	B-3		High-mounted stop light
R20	2	Black	B-4		Trunk room light
R22	3	★	B-1		Rear door switch LH
R24	8	★	B-4	R60	Trunk lid cord
R26	6	★	B-5		Rear combination light RH
R28	6	★	C-3		Rear combination light LH
R60	8	★	B-4	R24	Rear wiring harness RH
R65	1	★	B-2		Rear defogger (–)
R66	2	★	B-4		High-mounted stop light (rear spoiler)
R76	2	★	B-4		License plate light
R80	8	★	B-2		Keyless entry CM (without TPMS)
R97	1	★	B-2		Antenna feeder cord
R122	10	★	B-5		Fuel pump CM
R148	1	★	C-3		Rear differential oil temperature switch
R159	1	★	C-3		
R174	1	★	B-4		Rear defogger (+)
R186	3	★	C-3		Trunk lid lock actuator & switch
R221	12	★	B-3		TPMS & keyless entry CM (with TPMS)
R400	8	Gray	C-2		ELCM
★ : White or natural color					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB31	2	Black	B-2		Curtain airbag module LH
AB32	4	Yellow	B-1		Curtain airbag sensor LH
AB33	2	Black	B-4		Curtain airbag module RH

Rear Wiring Harness and Trunk Lid Cord

WIRING SYSTEM



WI-33826

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM

60.Rear Wiring Harness and Rear Gate Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R22	3	★	C-1		Rear door switch LH
R26	4	Light gray	C-5		Rear combination light RH
R28	4	Light gray	C-2		Rear combination light LH
R38	8	★	C-4	D34	Rear gate cord
R39	14	Gray	B-4	D35	
R80	8	★	C-1		Keyless entry CM (without TPMS)
R97	1	★	C-2		Antenna feeder cord
R122	10	★	C-4		Fuel pump CM
R141	2	★	C-2		Luggage room light
R148	1	★	D-3		Rear differential oil temperature switch
R159	1	★	D-3		
R221	12	★	C-1		TPMS & keyless entry CM (with TPMS)
R400	8	Gray	C-2		ELCM

★ : White or natural color

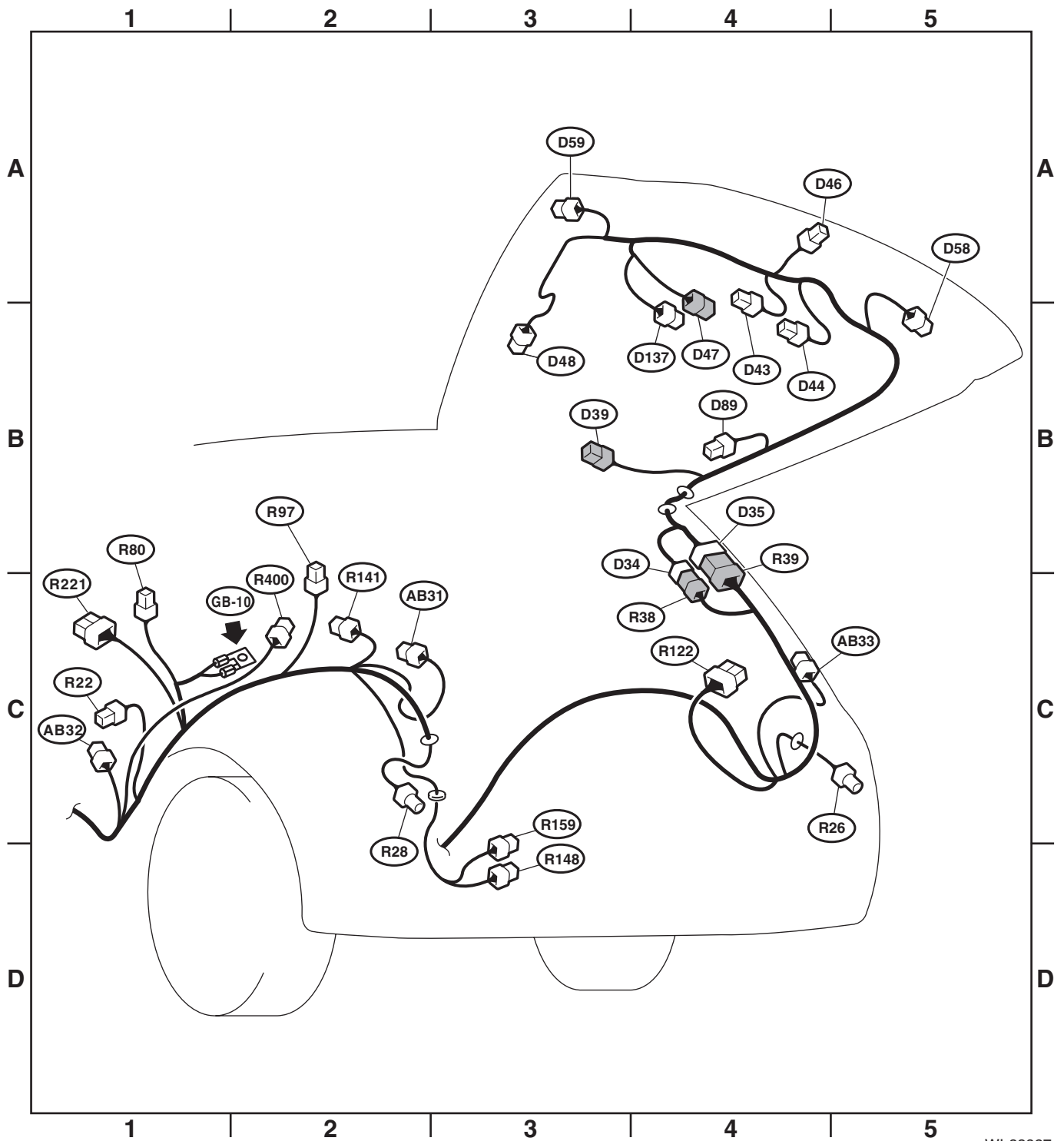
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D34	8	★	B-4	R38	Rear wiring harness
D35	14	★	B-4	R39	
D39	2	★	B-3		High-mounted stop light
D43	4	★	B-4		Rear wiper motor
D44	2	★	B-4		License plate light RH
D46	4	★	A-4		Rear gate lock actuator & latch switch
D47	2	Brown	A-4		Rear gate opener button
D48	1	★	B-3		Rear defogger (–)
D58	2	★	B-5		Back-up light RH
D59	2	★	A-3		Back-up light LH
D89	1	★	B-4		Rear defogger (+)
D137	2	★	B-4		License plate light LH

★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB31	2	Black	C-2		Curtain airbag module LH
AB32	4	Yellow	C-1		Curtain airbag sensor LH
AB33	2	Black	C-4		Curtain airbag module RH

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM



WI-33827

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM
