

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.

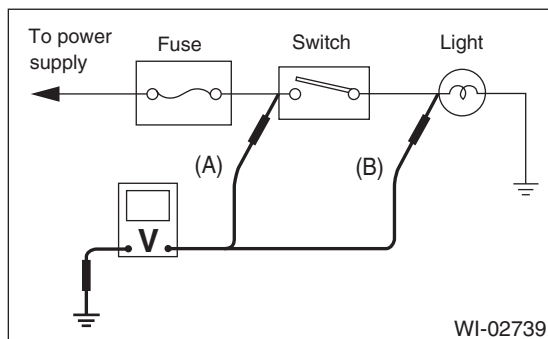
5. SYSTEM OPERATION CHECK

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) Shift the positive lead to connector (B). 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.

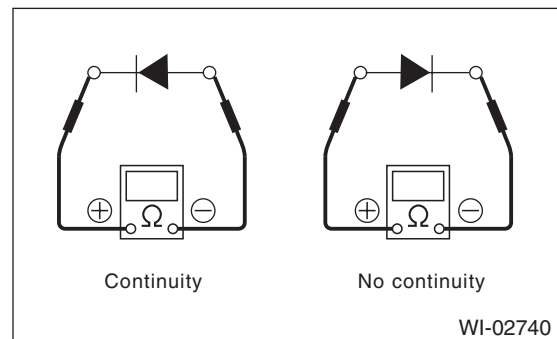
2. CIRCUIT CONTINUITY CHECKS

- 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	○	○				○

WI-02741

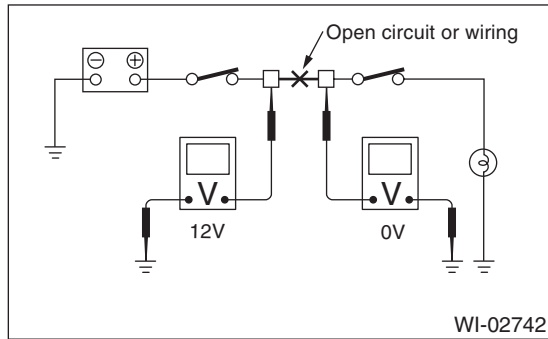
Basic Diagnostic Procedure

WIRING SYSTEM

3. HOW TO DETERMINE AN OPEN CIRCUIT

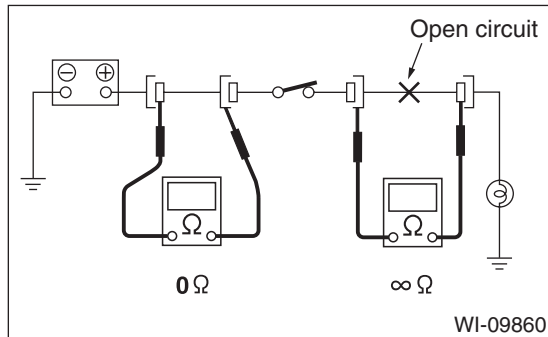
1) WITH VOLTMETER:

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:

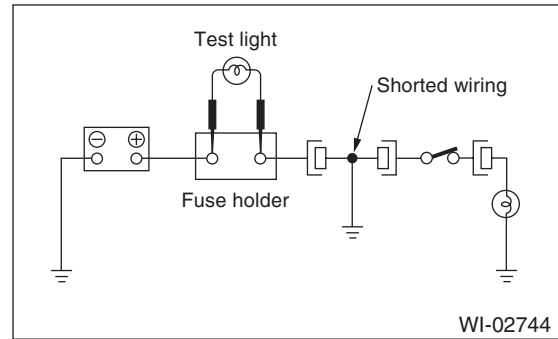
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



4. HOW TO DETERMINE A SHORT CIRCUIT

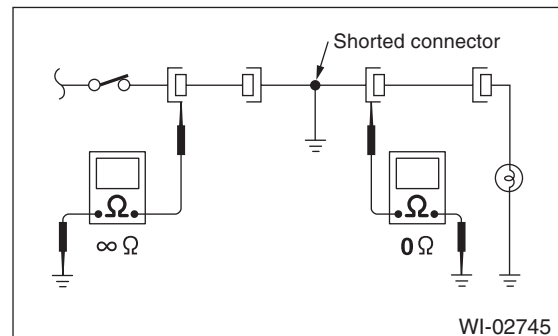
1) WITH TEST LIGHT:

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

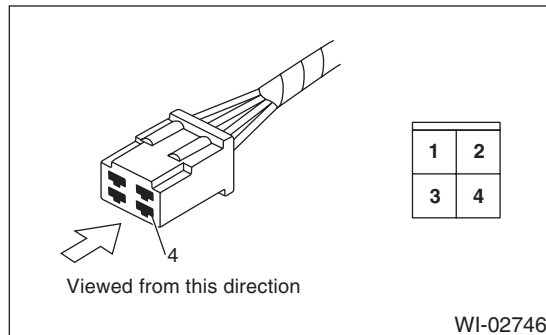
1. WIRING DIAGRAM

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

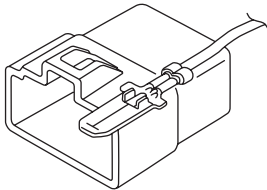
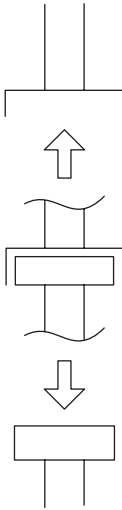
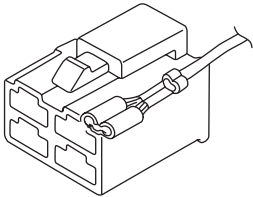
Sketches and codes are used in the diagrams.

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. <table border="1"><tr><td>4</td><td>3</td><td></td><td>2</td><td>1</td></tr><tr><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td></tr></table> Indicates the number of poles.	4	3		2	1	9	8	7	6	5		Numbered in order from upper right to lower left.
4	3		2	1									
9	8	7	6	5									
	Indicates a lock is included. <table border="1"><tr><td>1</td><td>2</td><td></td><td>3</td><td>4</td></tr><tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr></table> Single frame	1	2		3	4	5	6	7	8	9		Numbered in order from upper left to lower right
1	2		3	4									
5	6	7	8	9									

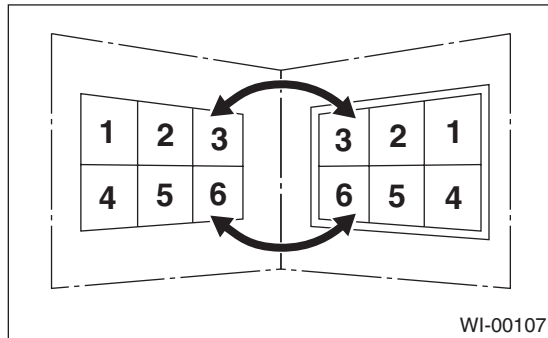
WI-02747

WI-02747

Basic Diagnostic Procedure

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.



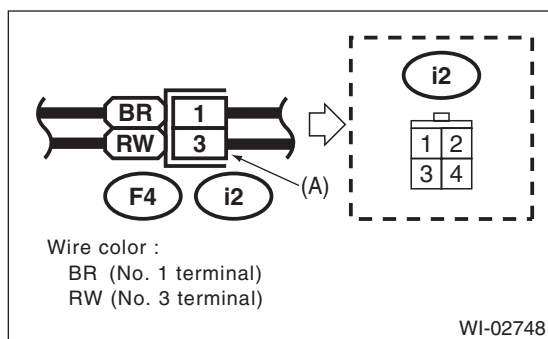
• WIRING DIAGRAM:

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

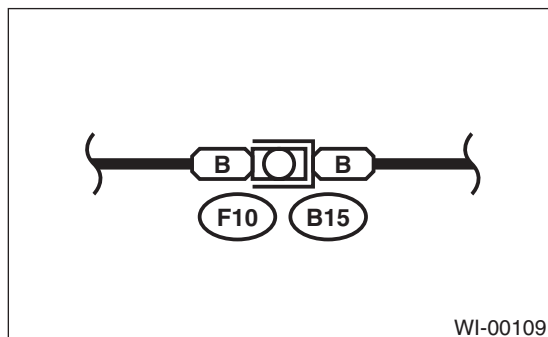
- The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal number and connector is described in the figure.

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.

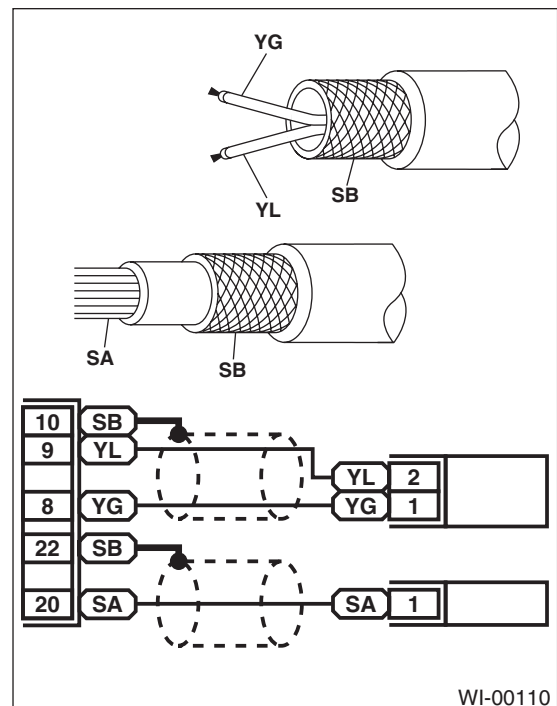


- In the wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

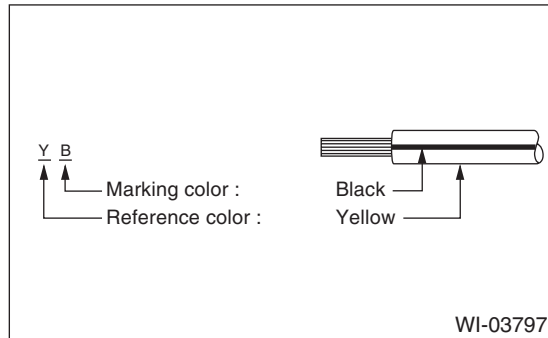


- The following color codes are used to indicate the colors of the wires.

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:

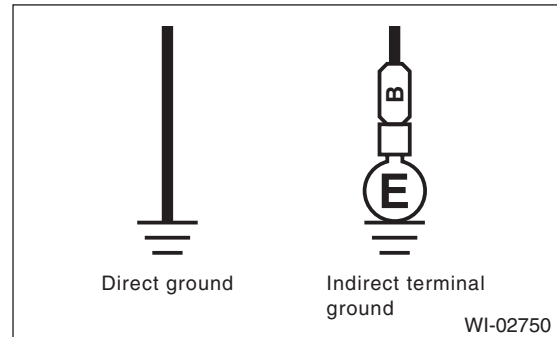
When replacing or repairing a wire, be sure to use the same size and type of the wire which was originally used.

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

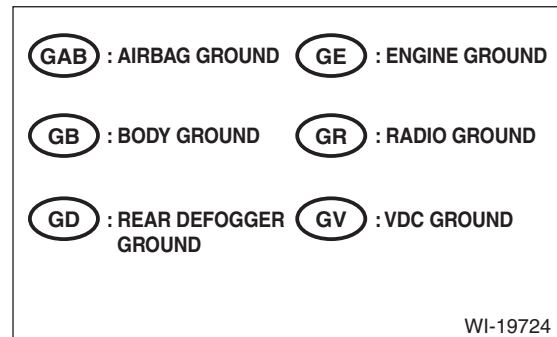
- Each unit is either directly grounded to the body or indirectly grounds through a harness ground terminal. Different symbols are used in the wiring diagram to identify the two grounding systems.



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

NOTE:

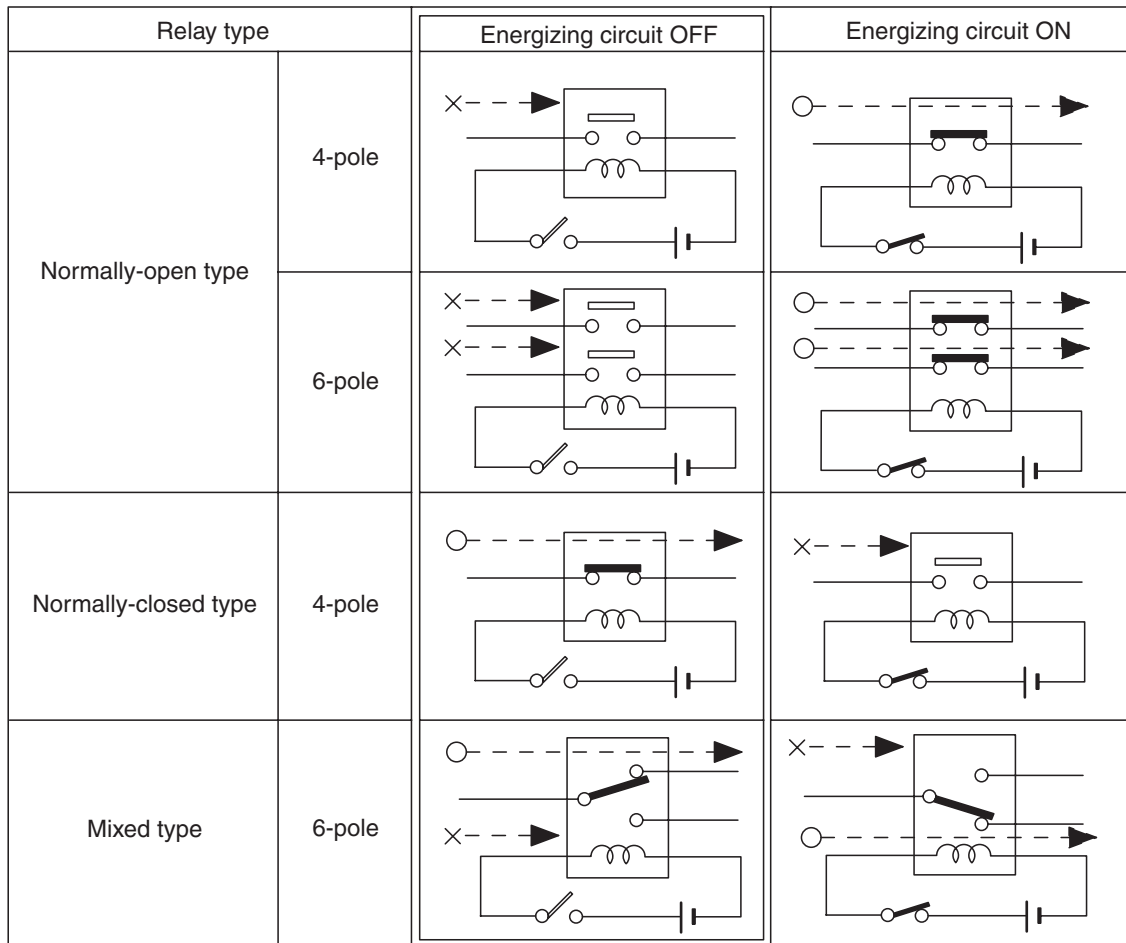
All wiring harnesses are provided with a ground point which should be securely connected.



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.



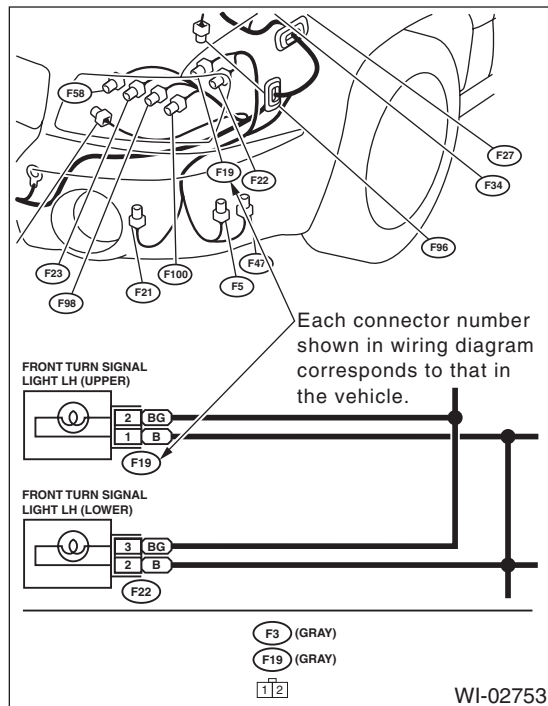
Key to symbols:

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

WI-16724

- 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, Rear defogger ground cord (Sedan model)
AB	Airbag wiring harness

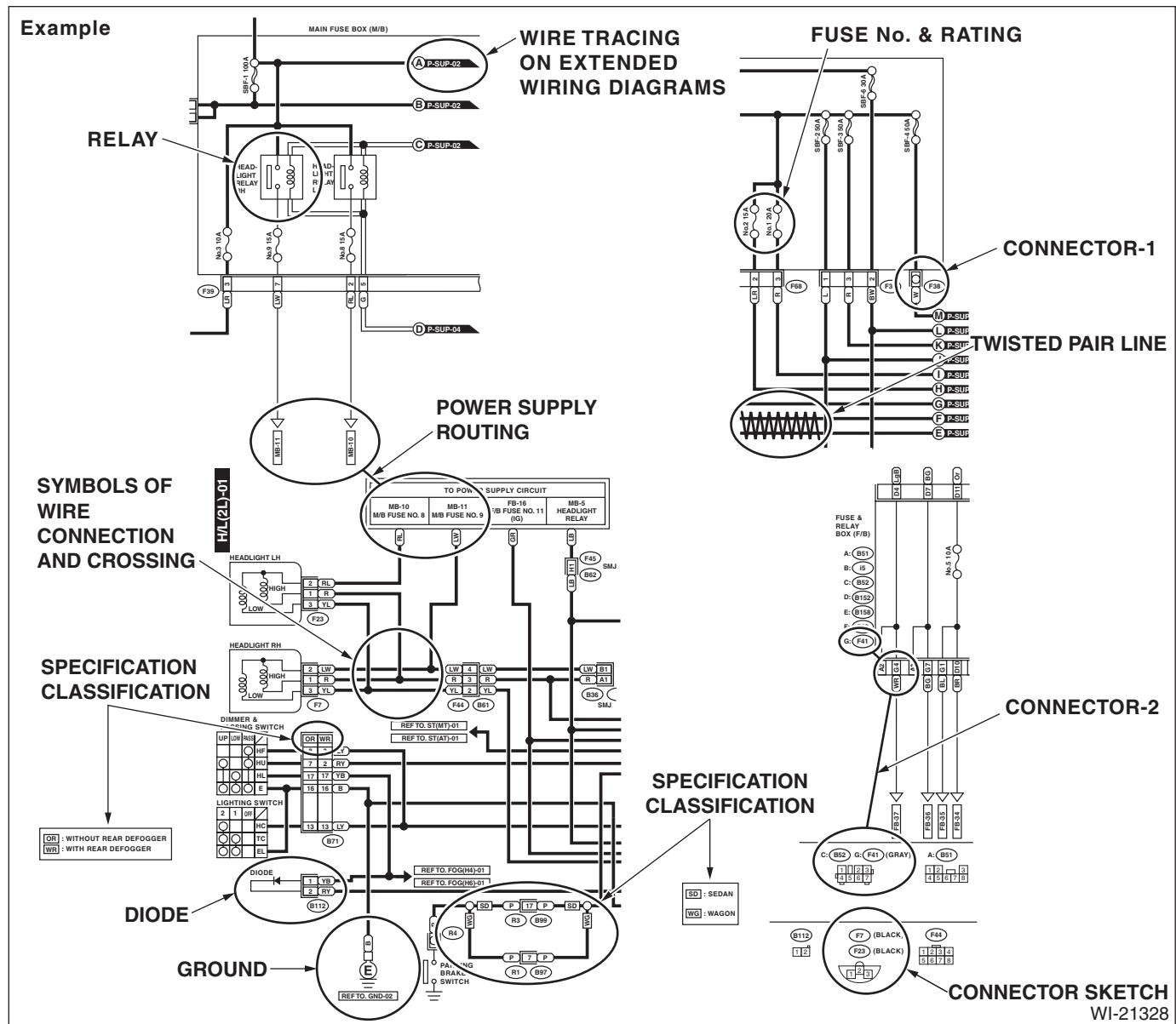


Basic Diagnostic Procedure

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 white or 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

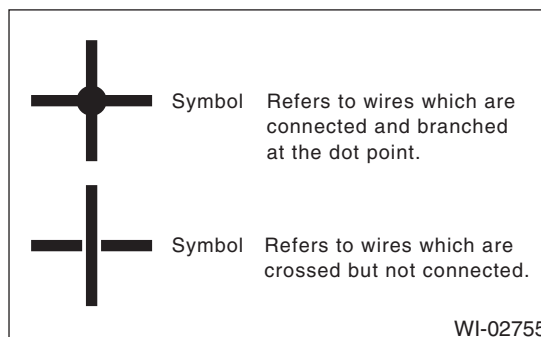
A symbol is used to indicate a diode.

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.

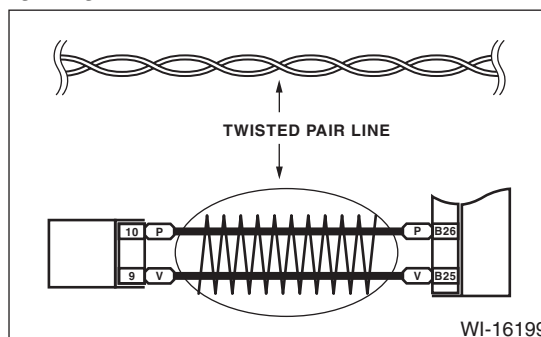
Accordingly, using the "DC POWER SUPPLY CIRCUIT" and wiring diagrams permits service personnel to understand the entire electrical arrangement of a system.

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.

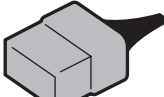


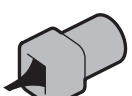
Basic Diagnostic Procedure

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		
		
		

WI-02756

F: ABBREVIATION IN WIRING DIAGRAMS

Abbr.	Full name
A/C	Air Conditioner
A/F	Air/Fuel (Air fuel ratio sensor)
ABS	Anti-lock Brake System
ACC	Accessory
ALT	Generator
ASSY	Assembly
AT	Automatic Transmission
AUX	Auxiliary Audio Input Terminal
AWD	All Wheel Drive
B, BAT	Battery
CAN	Controller Area Network
CPU	Central Processing Unit
ECM	Engine Control Module
EEPROM	Electronically Erasable and Programmable Read Only Memory
EGR	Exhaust Gas Recirculation
F/B	Fuse & Relay Box
FWD	Front Wheel Drive
GPS	Global Positioning System
H/L	Headlight
HI	High
HID	High Intensity Discharge
I/F	Interface
IG	Ignition
L, LH	Left Hand
LCD	Liquid Crystal Display
LO	Low
M/B	Main Fuse Box
MFD	Multi Function Display
OP	Optional Parts or Open
R, RH	Right Hand
SBF	Slow Blow Fuse
ST	Starter
TCS	Traction Control System
TCM	Transmission Control Module
TPM	Tire Pressure Monitor
U, UP	Up
VDC	Vehicle Dynamics Control

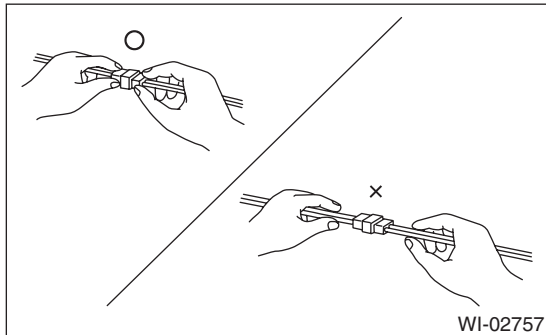
2. Working Precautions

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

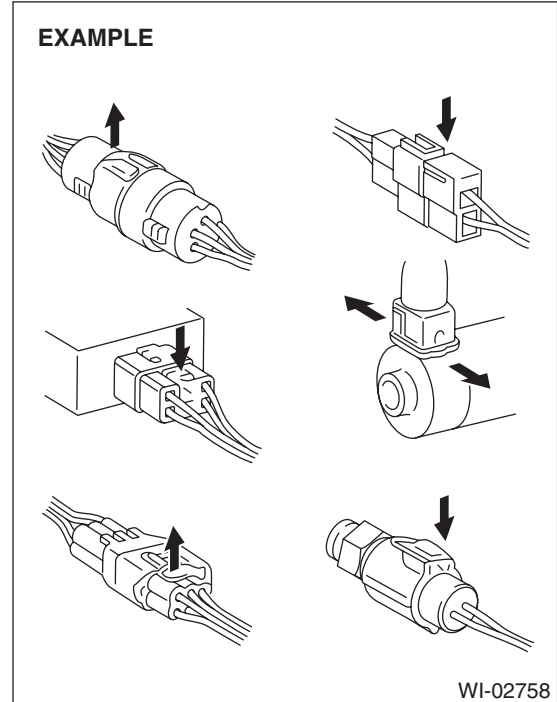
- 1) When working under a vehicle which is jacked-up, always be sure to use rigid rack.
- 2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
- 3) Be sure the workshop is properly ventilated when running 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 or edges and bolts or screws.
- 3) When installing parts, be careful not to catch them on the wiring harness.
- 4) When disconnecting a connector, do not pull the wires, but pull while holding the connector body.

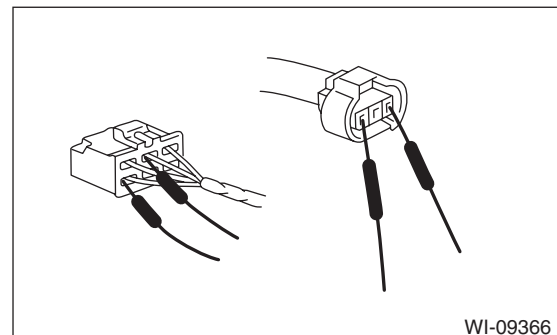


- 5) Some connectors are provided with a lock. One type of such a connector is disconnected by pushing the lock, and the other, by moving the lock up. In either type the lock shape must be identified before attempting to disconnect the connector. To connect, insert the connector until it snaps and confirm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



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

To check water-proof connectors (which are not measurable from the wiring side), contact test probes on the terminal side. Be careful not to bend or damage the terminals.



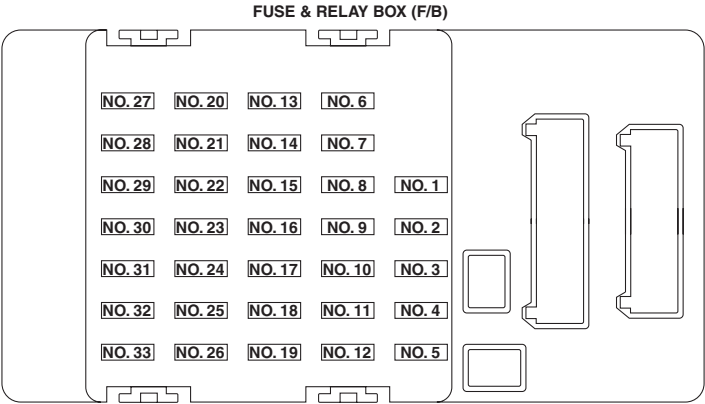
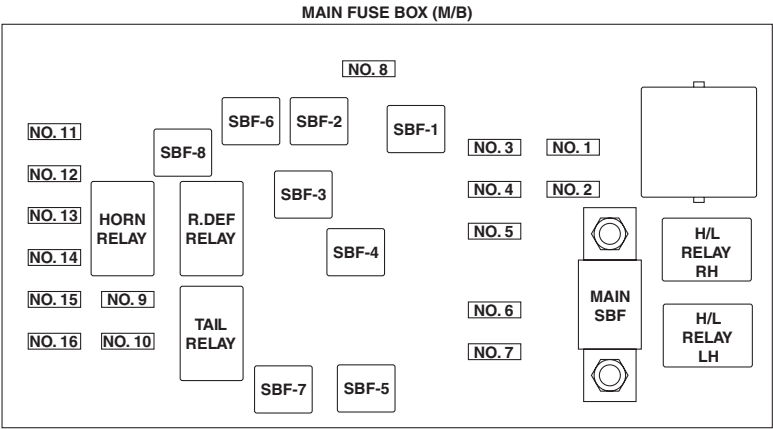
- 7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts. Handle them with care so that they are not dropped or mishandled.

3. Power Supply Circuit

A: WIRING DIAGRAM

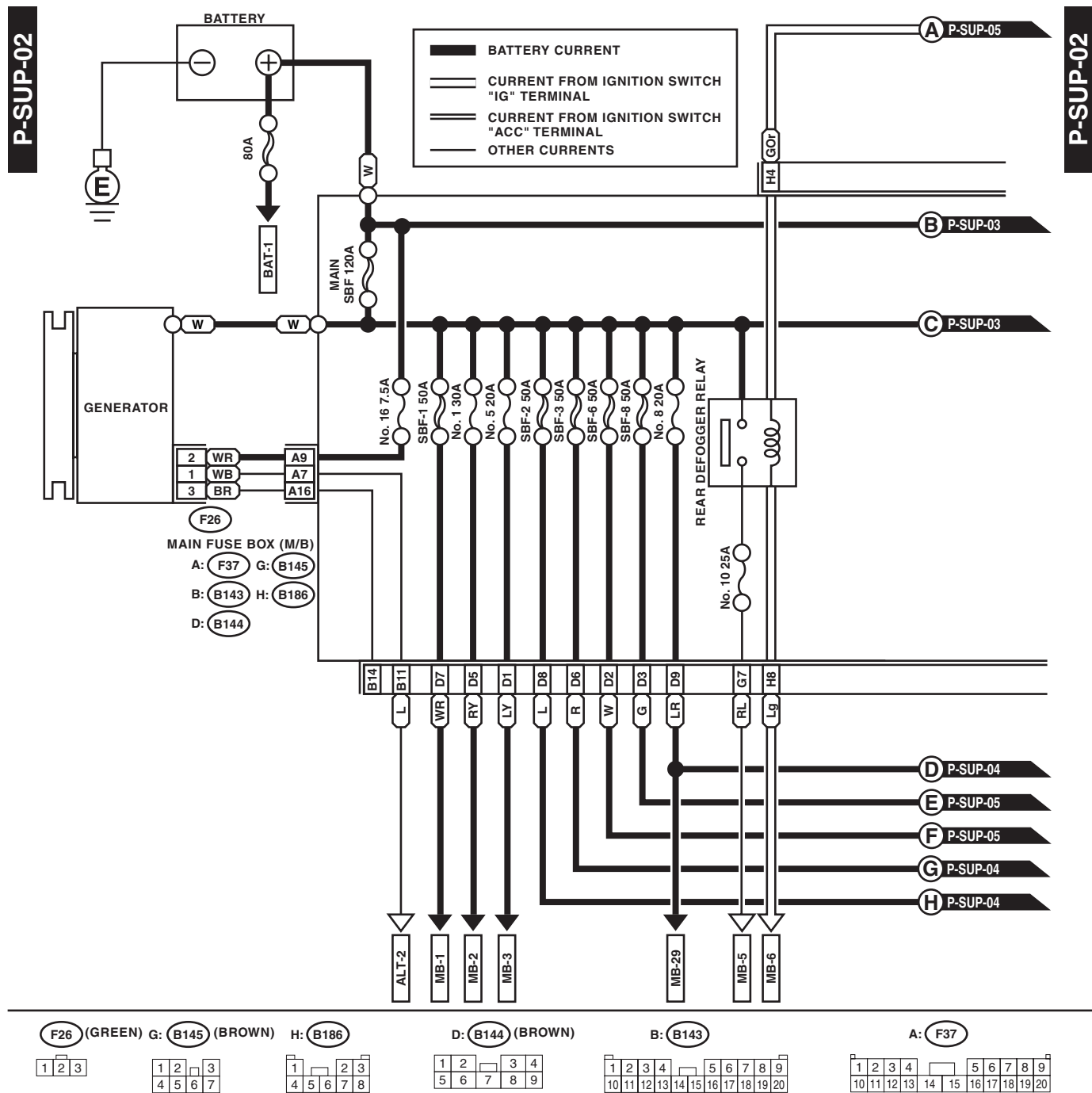
P-SUP-01

P-SUP-01



Power Supply Circuit

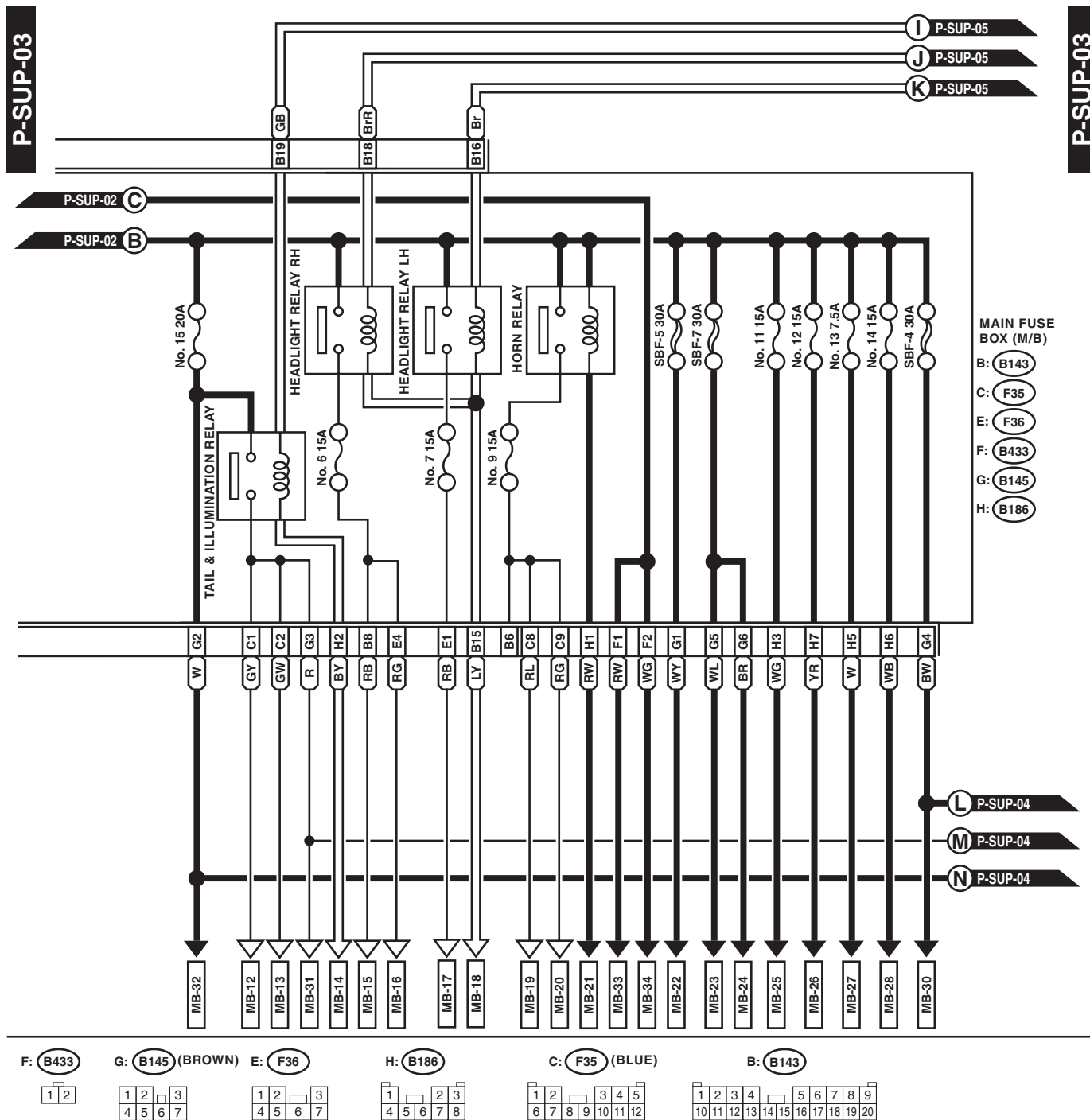
WIRING SYSTEM



WI-15974

Power Supply Circuit

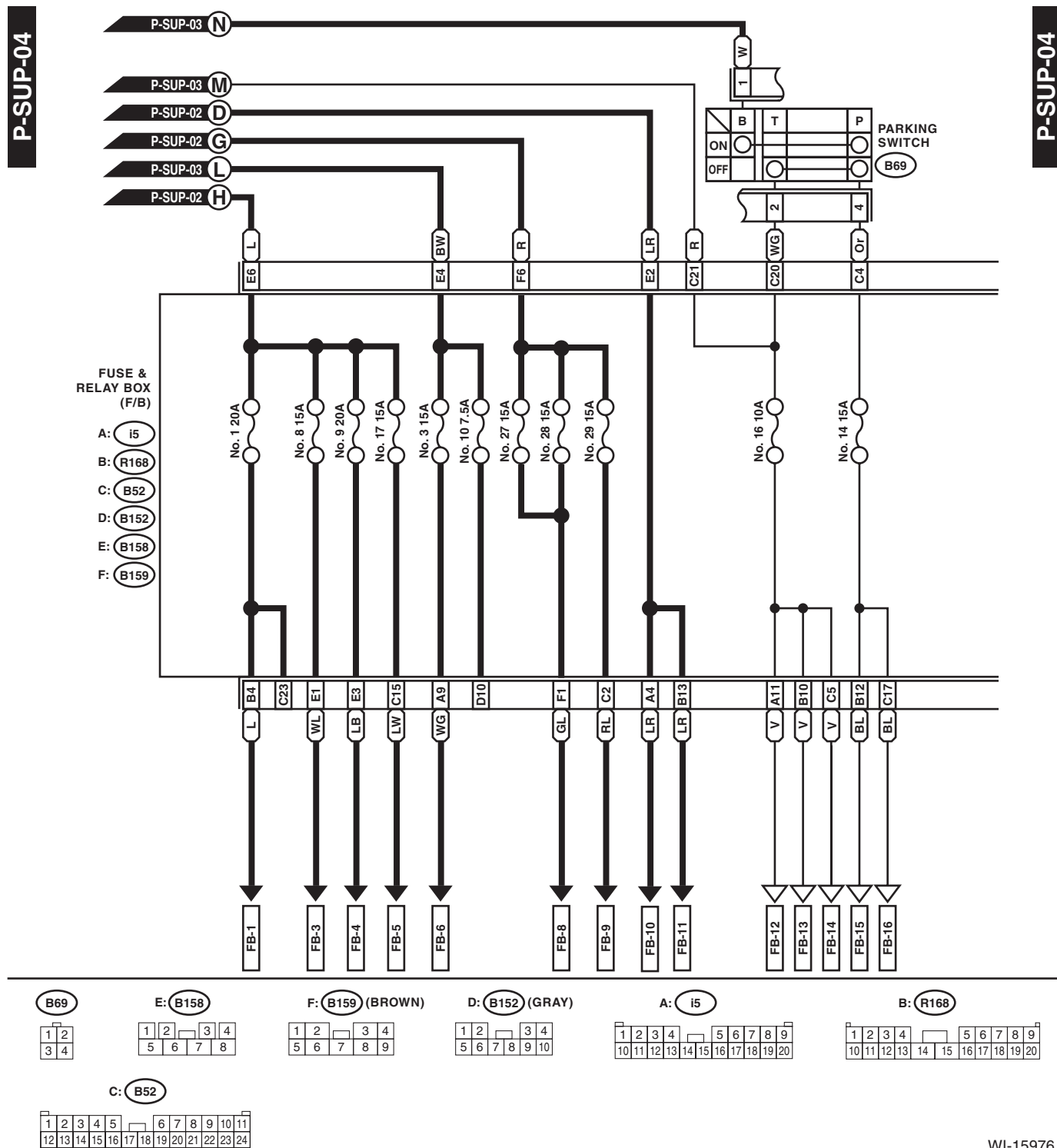
WIRING SYSTEM



WI-15975

Power Supply Circuit

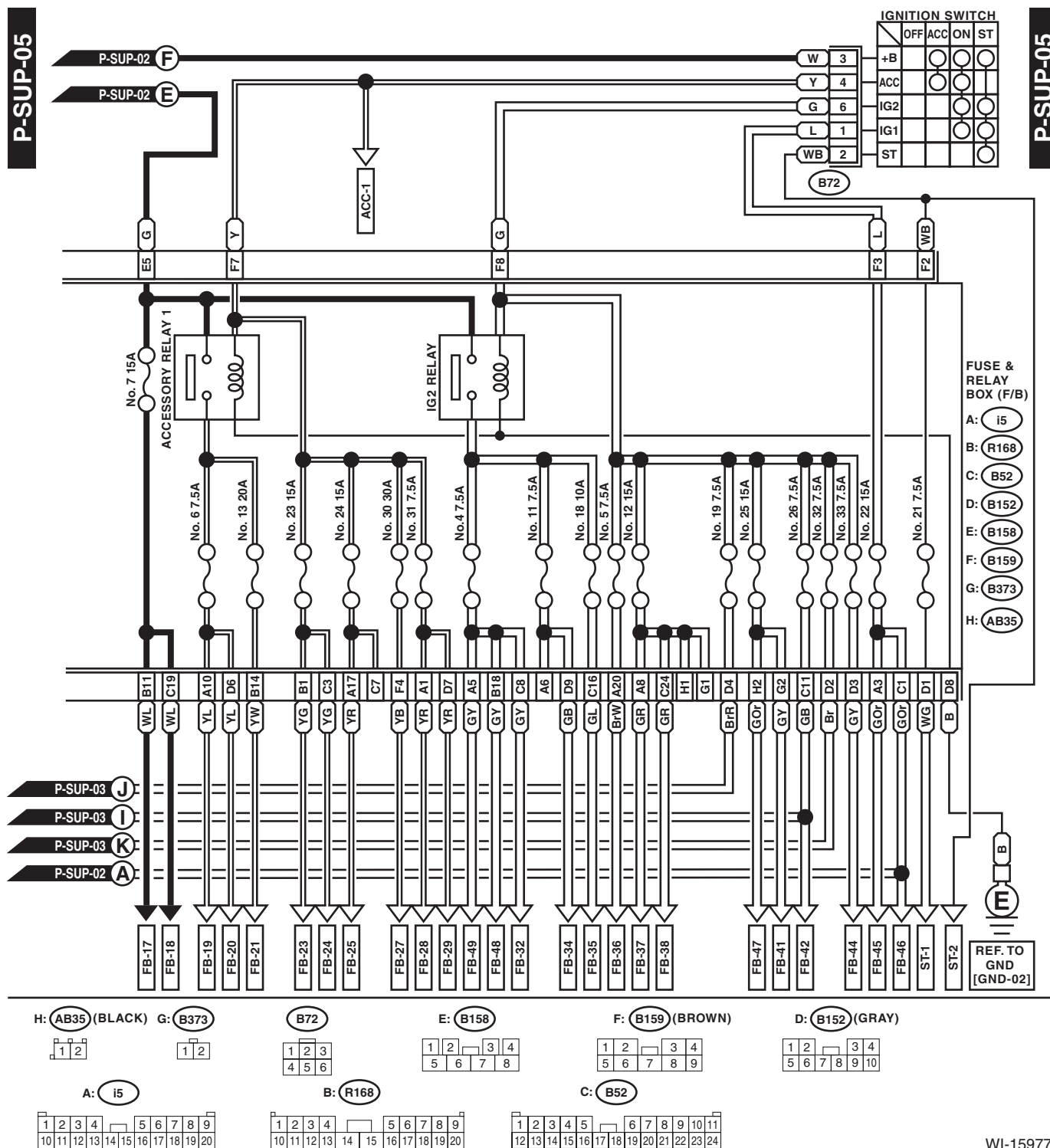
WIRING SYSTEM



WI-15976

Power Supply Circuit

WIRING SYSTEM



WI-15977

Power Supply Circuit

WIRING SYSTEM

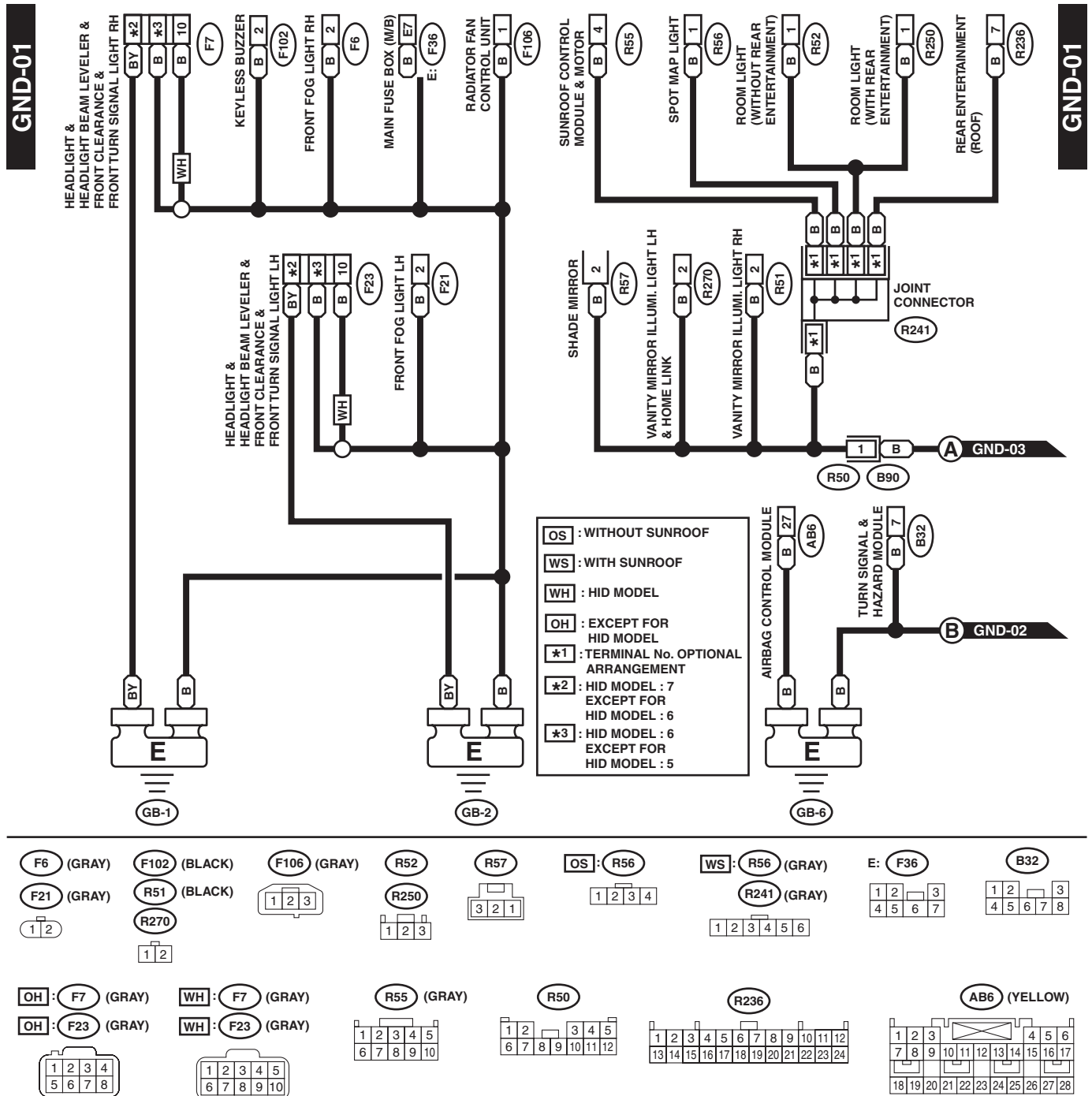
No.	Load
MB-1	VDC control module
MB-2	VDC control module
MB-3	Accessory relay 2
MB-5	Mirror heater relay
	Rear defogger
MB-6	Body integrated unit
MB-12	Headlight beam leveler RH
MB-13	Headlight beam leveler LH
MB-14	Combination switch (lighting)
MB-15	Combination meter
MB-16	Headlight RH
MB-17	Headlight LH
MB-18	Daytime running light control module
	Body integrated unit
MB-19	Horn
MB-20	Horn
MB-21	Body integrated unit
	Remote engine start control module
	Horn switch
MB-22	Main relay
MB-23	Main relay 2
	Main relay
MB-24	Electronic throttle control relay
MB-25	Fuel pump relay
MB-26	TCM
MB-27	ECM
	Data link connector
MB-28	Key warning switch
	Key illumination
	Turn signal and hazard unit
	Body integrated unit
MB-29	Spot map light
	Vanity mirror light LH
	Vanity mirror light RH
	Puddle light LH
	Puddle light RH
	Foot light (Driver's seat)
	Foot light (Passenger's seat)
	Home link
	Body integrated unit
	Room light
MB-30	Power window circuit breaker
MB-31	F/B fuse No. 16
	Headlight beam leveler switch
MB-32	Parking switch
MB-33	Blower motor relay
MB-34	Vacuum pump relay
FB-1	Trailer connector
FB-3	Stop light switch

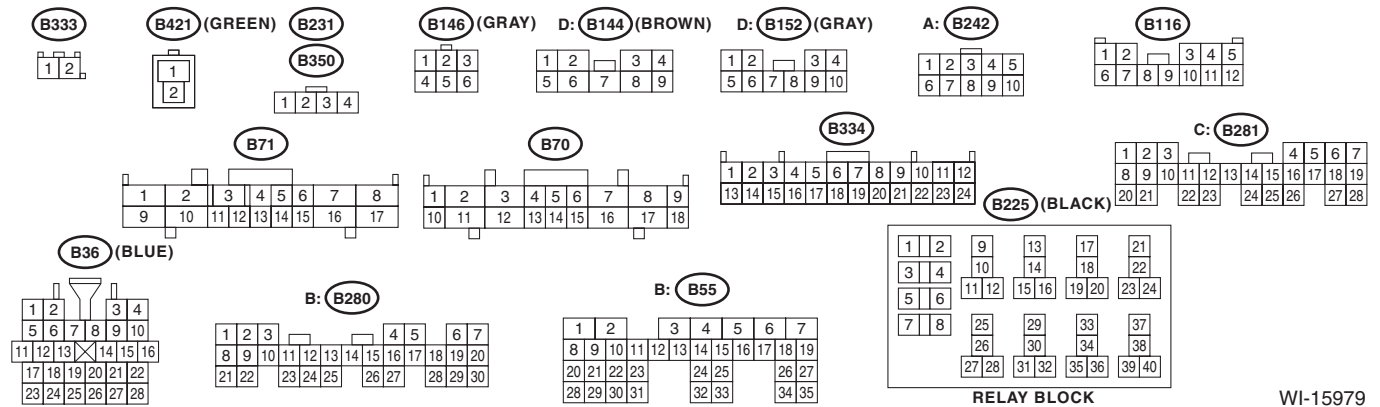
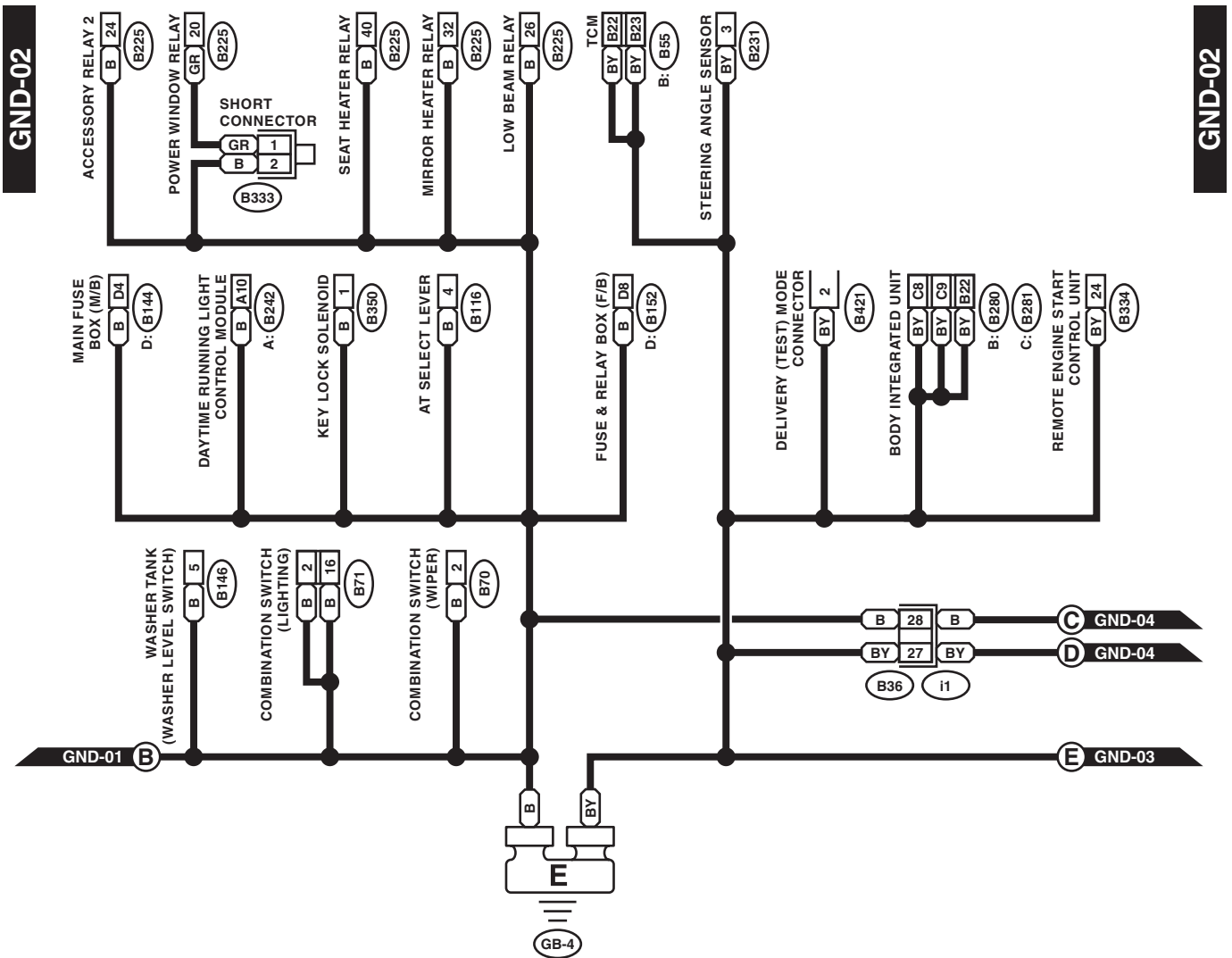
No.	Load
FB-4	Mirror heater relay
	Wiper deicer relay
FB-5	Seat heater relay
FB-6	Body integrated unit
FB-8	Rear A/C relay
FB-9	Front fog light relay
FB-10	MFD
	Impact sensor
	Audio
	Keyless entry control module
	Second-row seat foot light RH
	TV monitor
	Navigation module
	Front step light LH
	Front step light RH
	Rear Entertainment
	Rear step light RH
	XM radio
FB-11	Second-row seat foot light LH
	Luggage room light
	Rear gate light
	Rear step light LH
FB-13	Navigation module
FB-17	TPM control module
	Warning box LH
	Warning box RH
	Rear view camera module
FB-18	Combination meter
	Auto A/C control module
FB-19	Body integrated unit
	Remote control mirror switch
FB-20	Push switch
	Accessory relay 2
	Seat heater relay
FB-21	Shade mirror
	Rear accessory power supply socket (Third-row seat)
FB-23	Rear accessory power supply socket (Luggage room)
FB-23	Rear wiper motor
FB-24	Body integrated unit
	Rear washer motor
FB-25	MFD
	Audio
	TV monitor
	Navigation module
	Rear view camera module
	AUX switching unit
	Rear entertainment

No.	Load
FB-27	Combination Switch (Wiper)
	Front wiper motor
	Wiper relay unit
FB-28	Body integrated unit
FB-29	Auto A/C control module
FB-32	Open/Close switch
	Sunroof control module & motor
	Brake switch
	Tilt switch
	Data link connector
	Wiper deicer relay
FB-34	Turn signal and hazard unit
FB-35	Daytime running light control module
	Low beam relay
	Back-up light relay
FB-36	MFD
	Warning box RH
	Combination meter
FB-37	Body integrated unit
FB-38	ECM
	TCM
	Fuel pump relay
FB-41	Airbag control module
FB-42	Power window relay
	Main fan relay
FB-44	VDC control module
	Steering angle sensor
	Yaw rate & lateral G sensor
FB-45	A/C control panel
	Rear A/C relay
FB-46	A/C relay
	Intake door actuator
	Auto A/C control module
	Pressure switch
	Blower motor relay
FB-47	Occupant detection control module
FB-48	TPM control module
	Power seat LH (with memory)
FB-49	Impact sensor
	TV monitor
ACC-1	Front washer motor
BAT-1	Main fan relay
ST-1	Inhibitor relay
ST-2	Starter relay

4. Ground Circuit

A: WIRING DIAGRAM

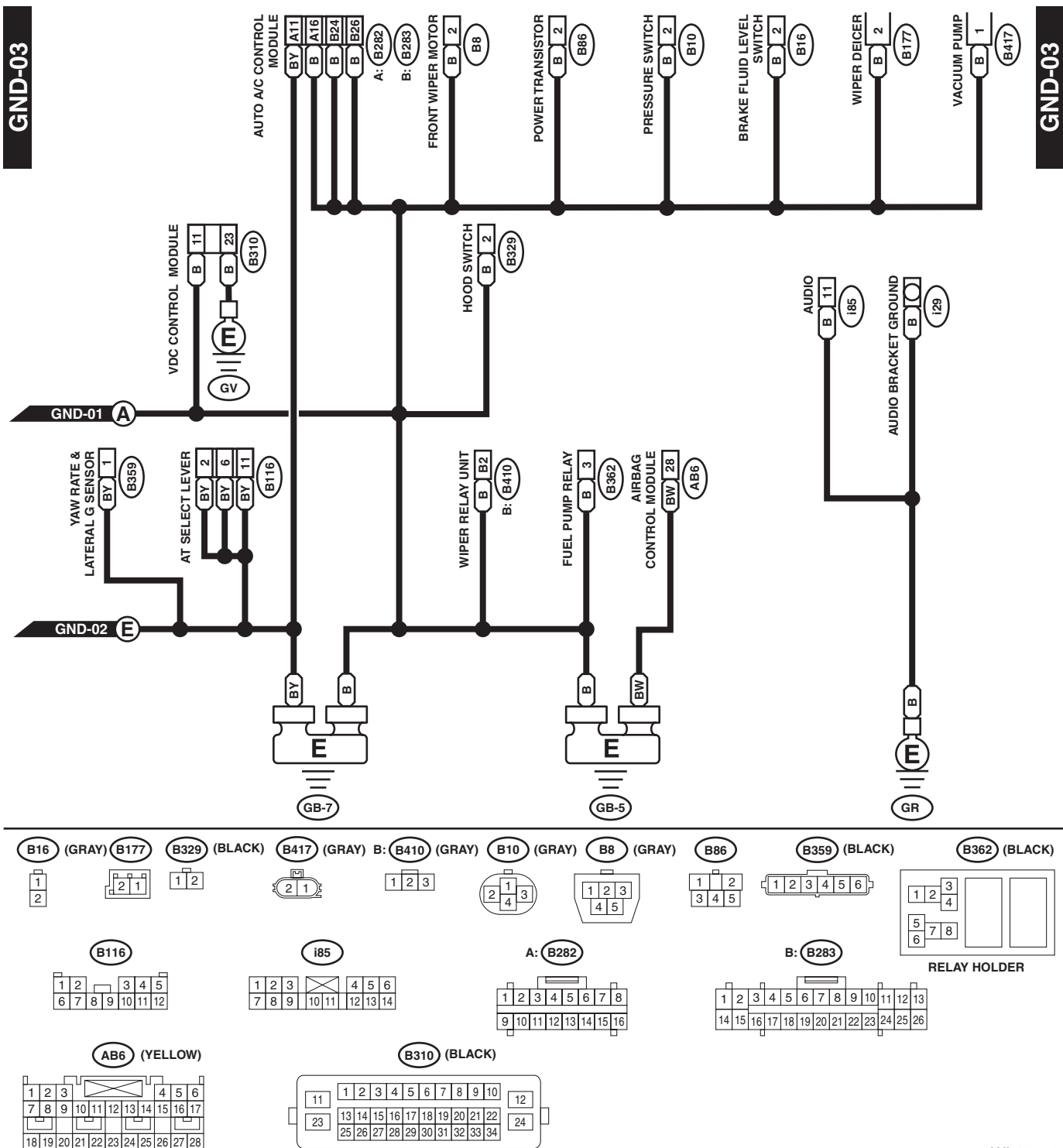




WI-15979

Ground Circuit

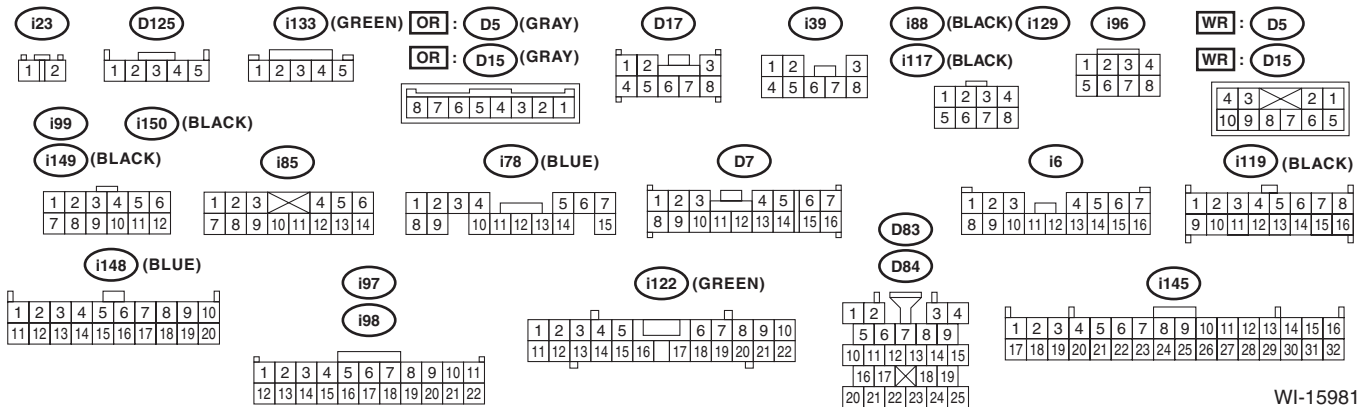
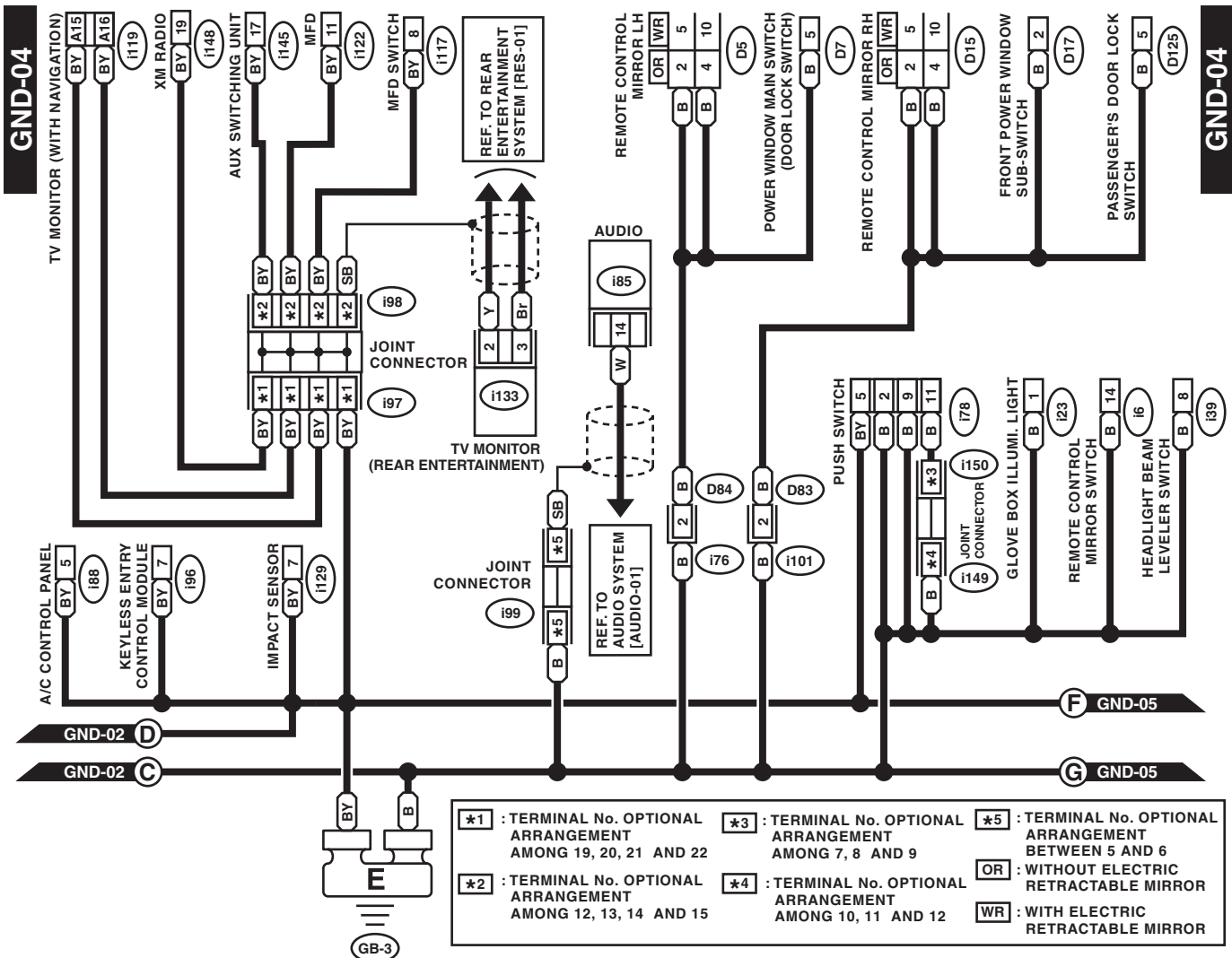
WIRING SYSTEM



WI-19706

Ground Circuit

WIRING SYSTEM



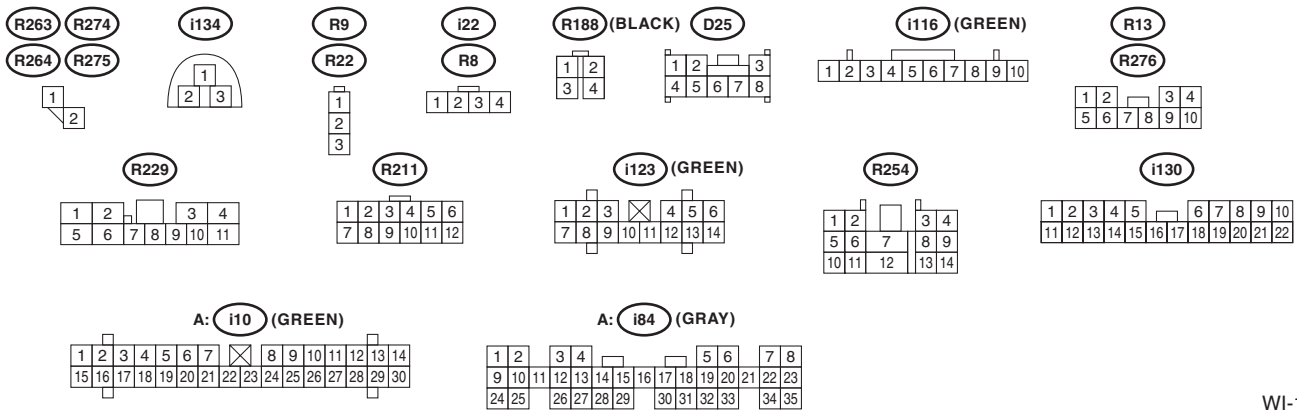
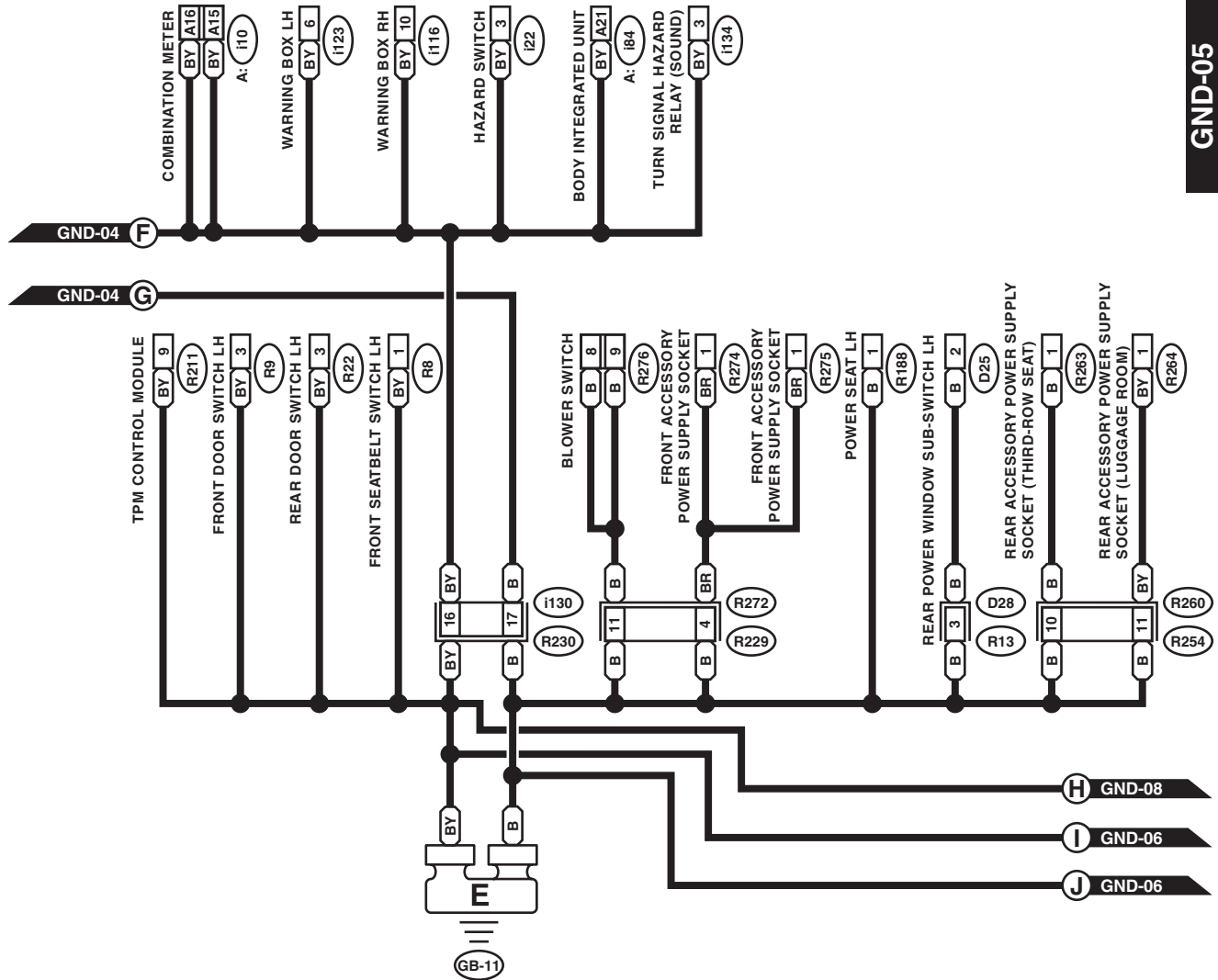
WI-15981

Ground Circuit

WIRING SYSTEM

GND-05

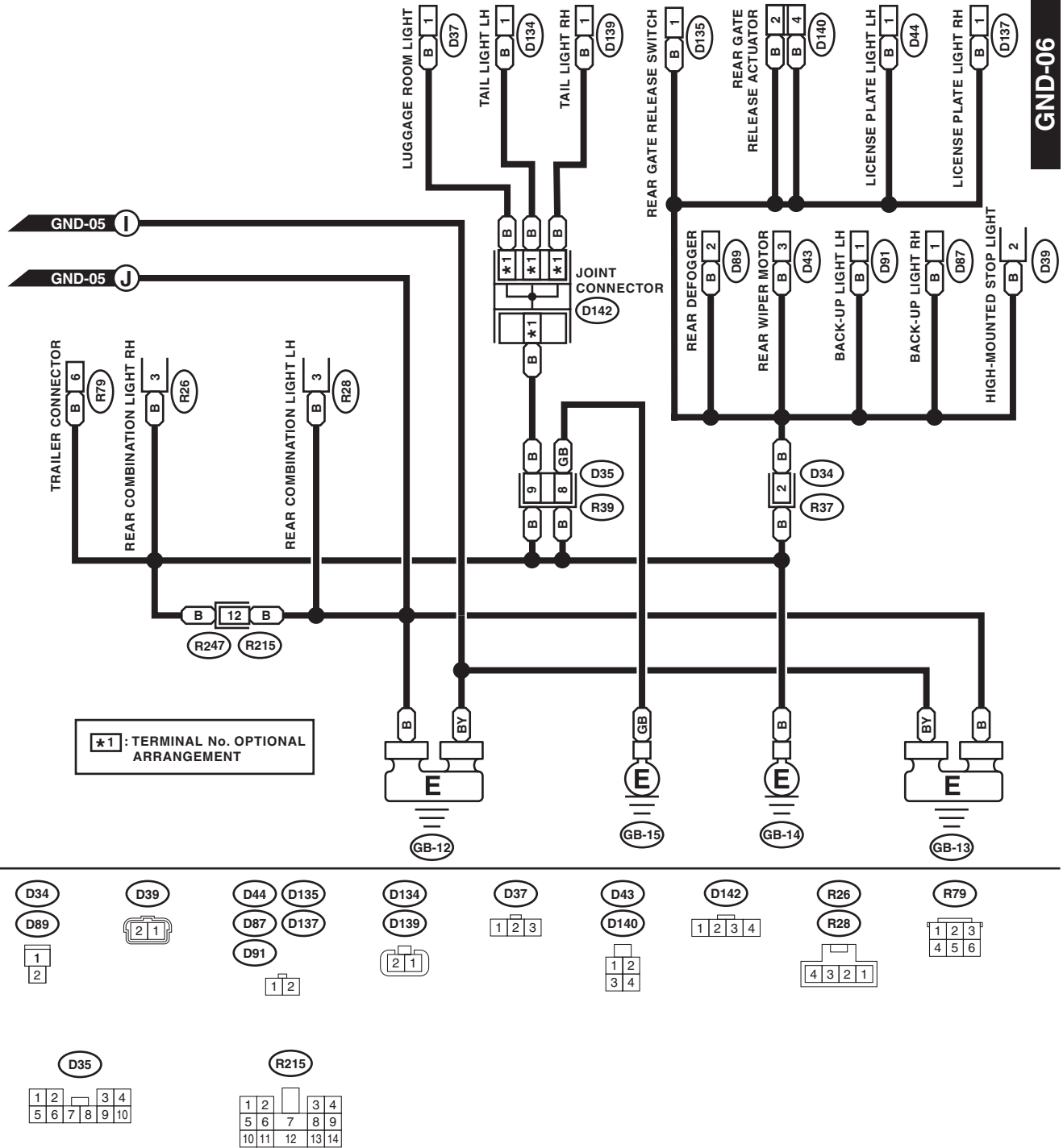
GND-05



WI-15982

GND-06

GND-06



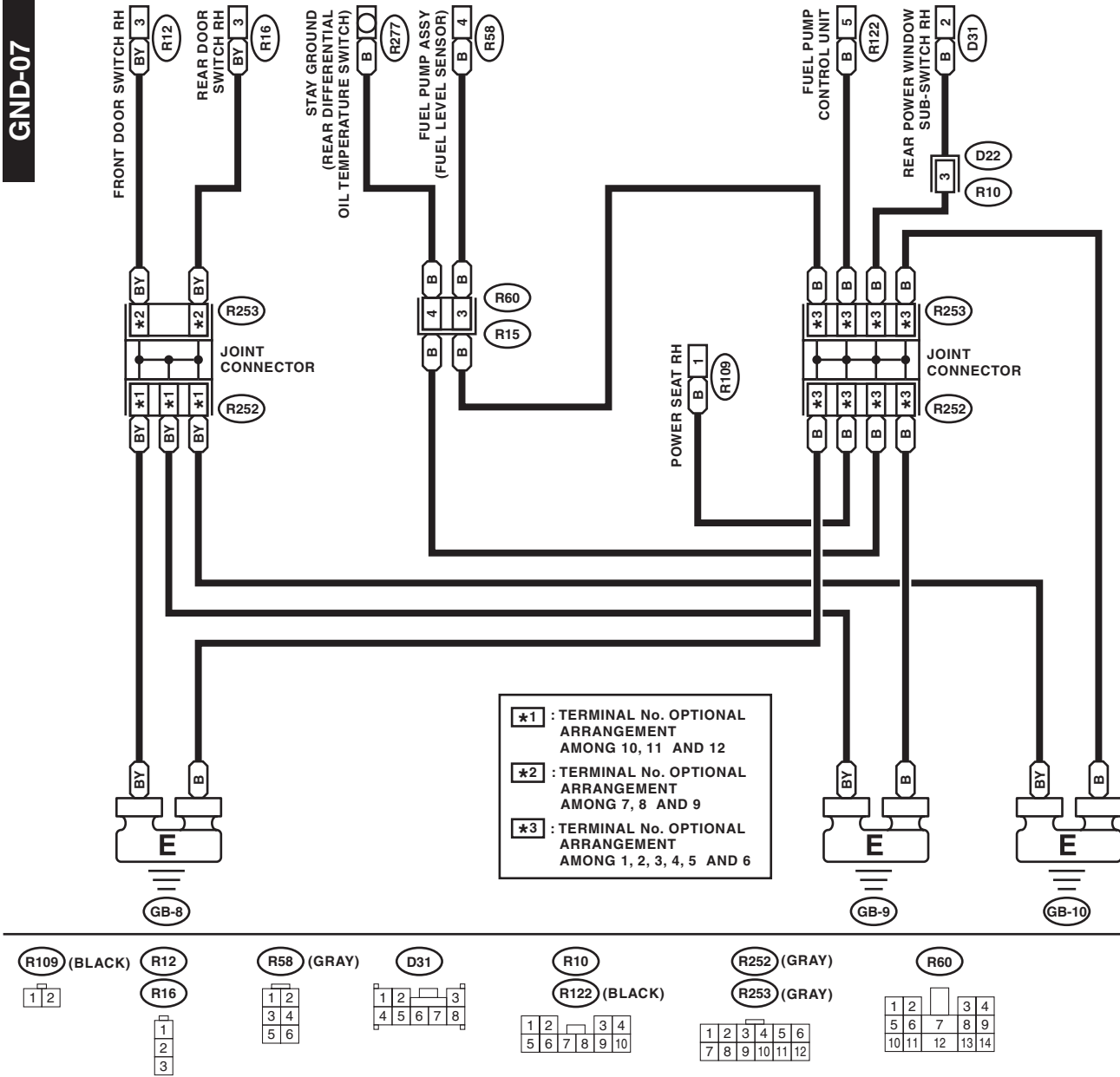
WI-15983

Ground Circuit

WIRING SYSTEM

GND-07

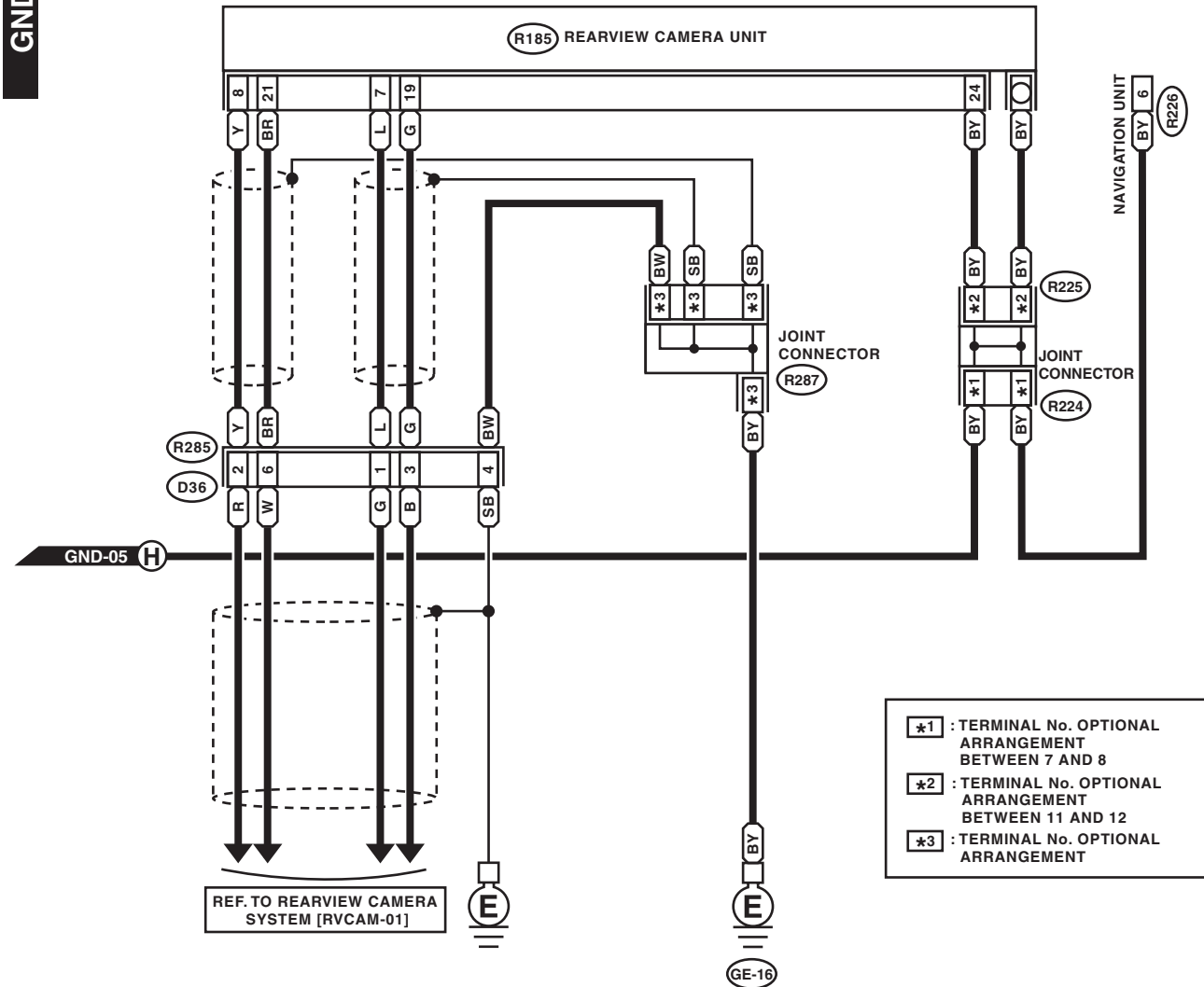
GND-07



WI-15984

GND-08

GND-08



1	2
3	4

1	2	3	4	5	6
---	---	---	---	---	---

1	2	3	4
5	6	7	8

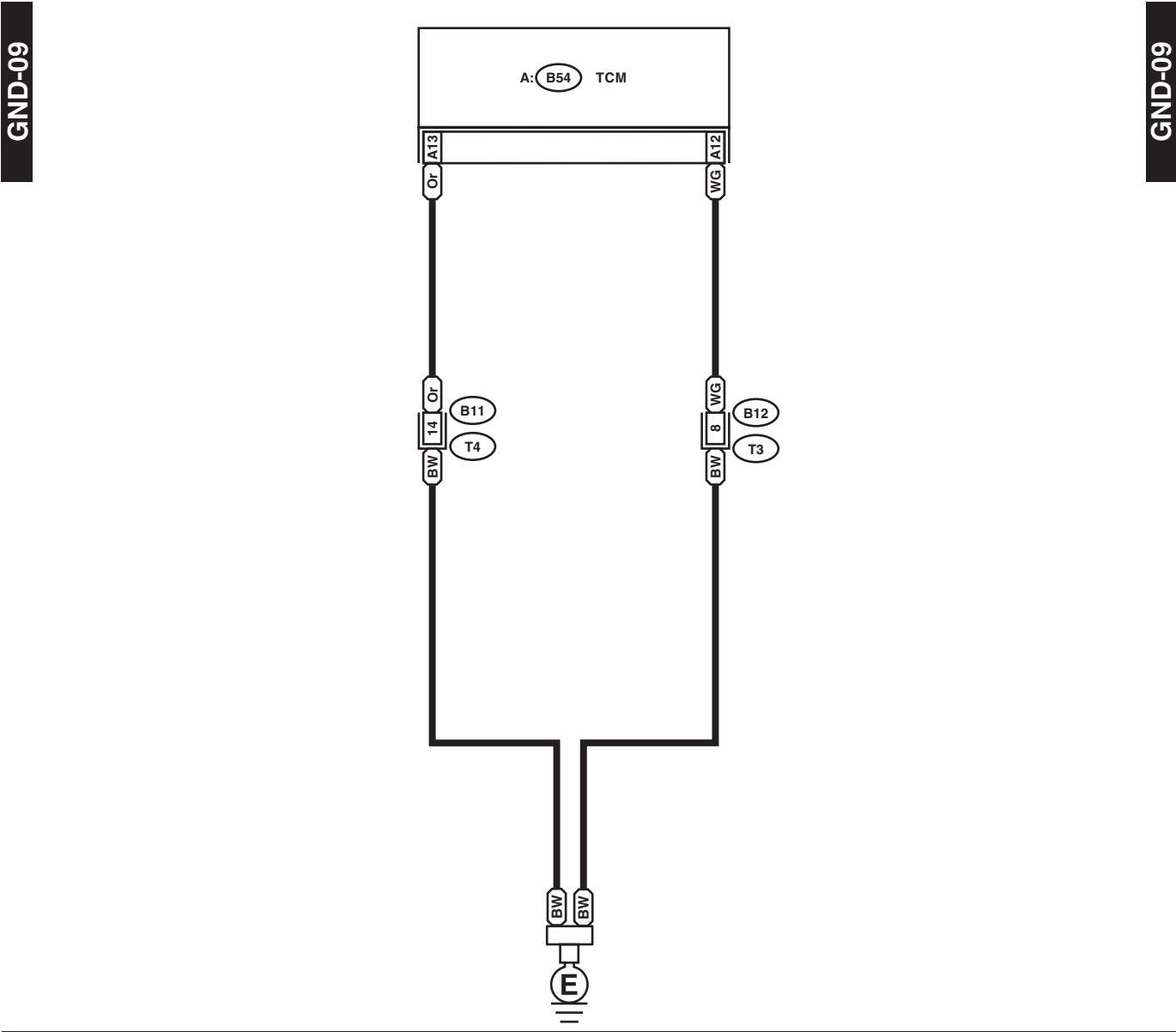
1	2	3	4	5	6
7	8	9	10	11	12

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

WI-15985

Ground Circuit

WIRING SYSTEM



B12 (GRAY)

1	2	3	4
5	6	7	8

B11 (GRAY)

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

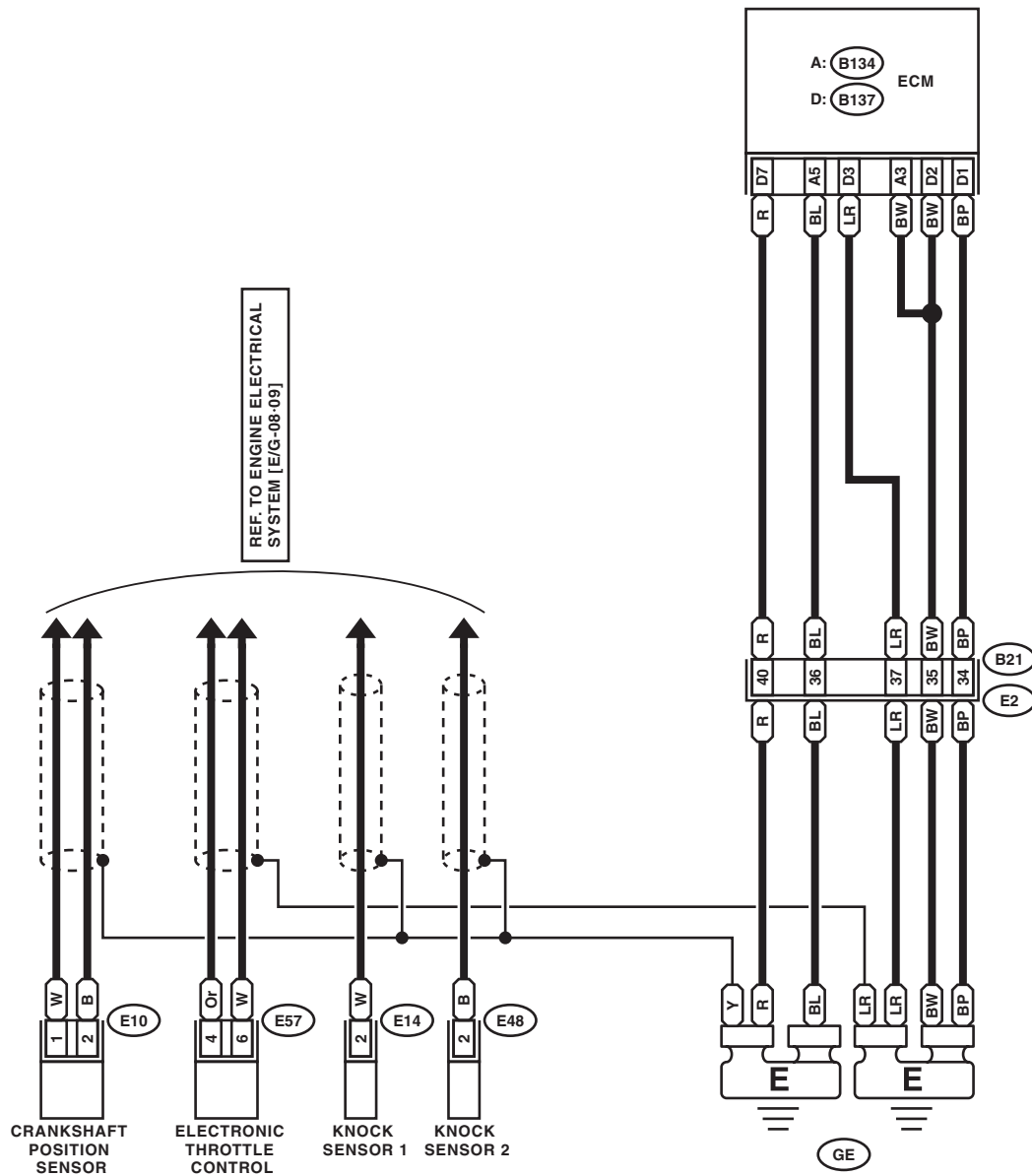
A: B54

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	

WI-15986

GND-10

GND-10



E10 (LIGHT GRAY) E57 (BLACK)

E14 (BLUE)

E48 (BLUE)

1 2

1 2 3 4 5 6

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				

D: B137

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				

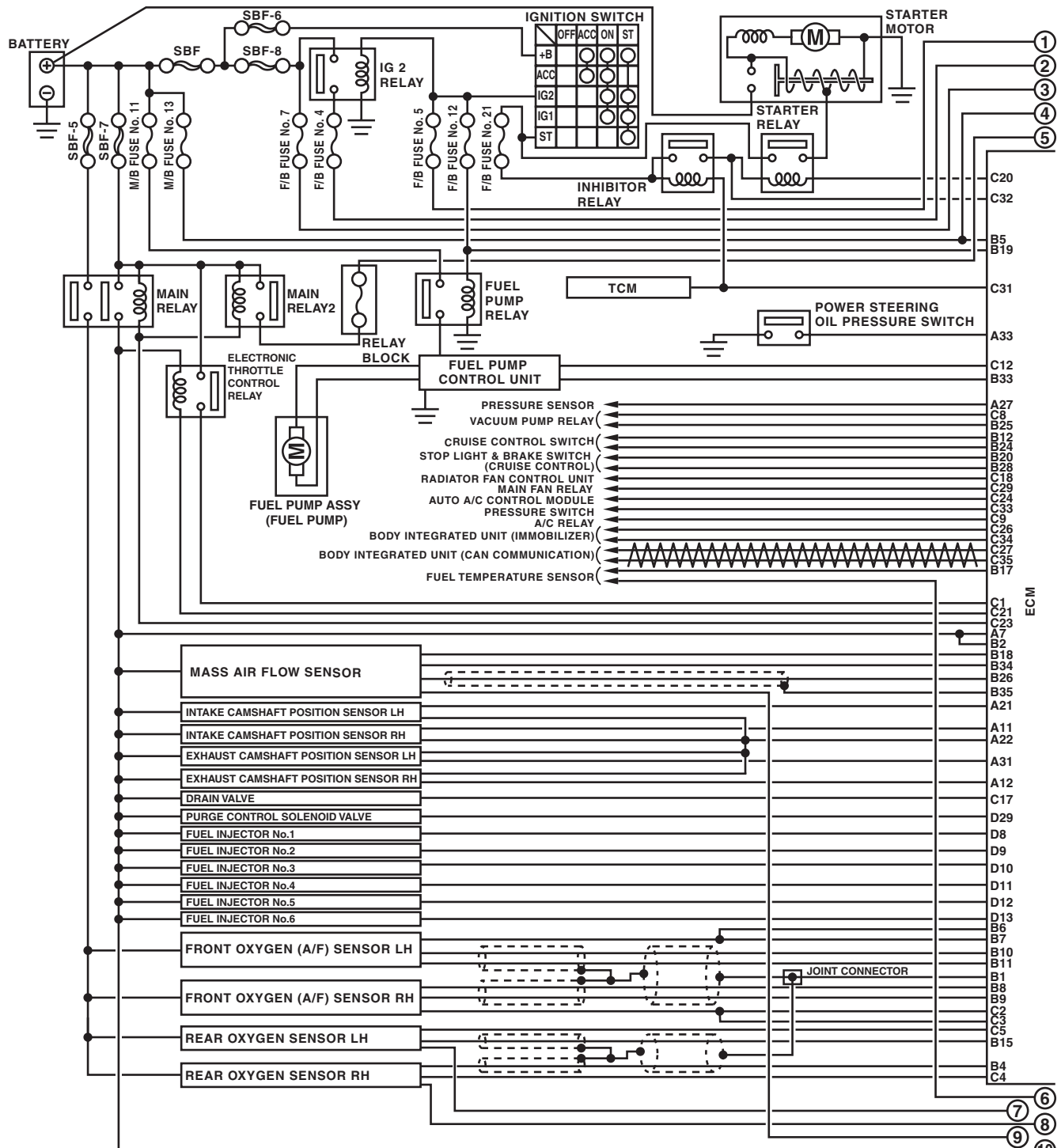
WI-15987

Engine Electrical System

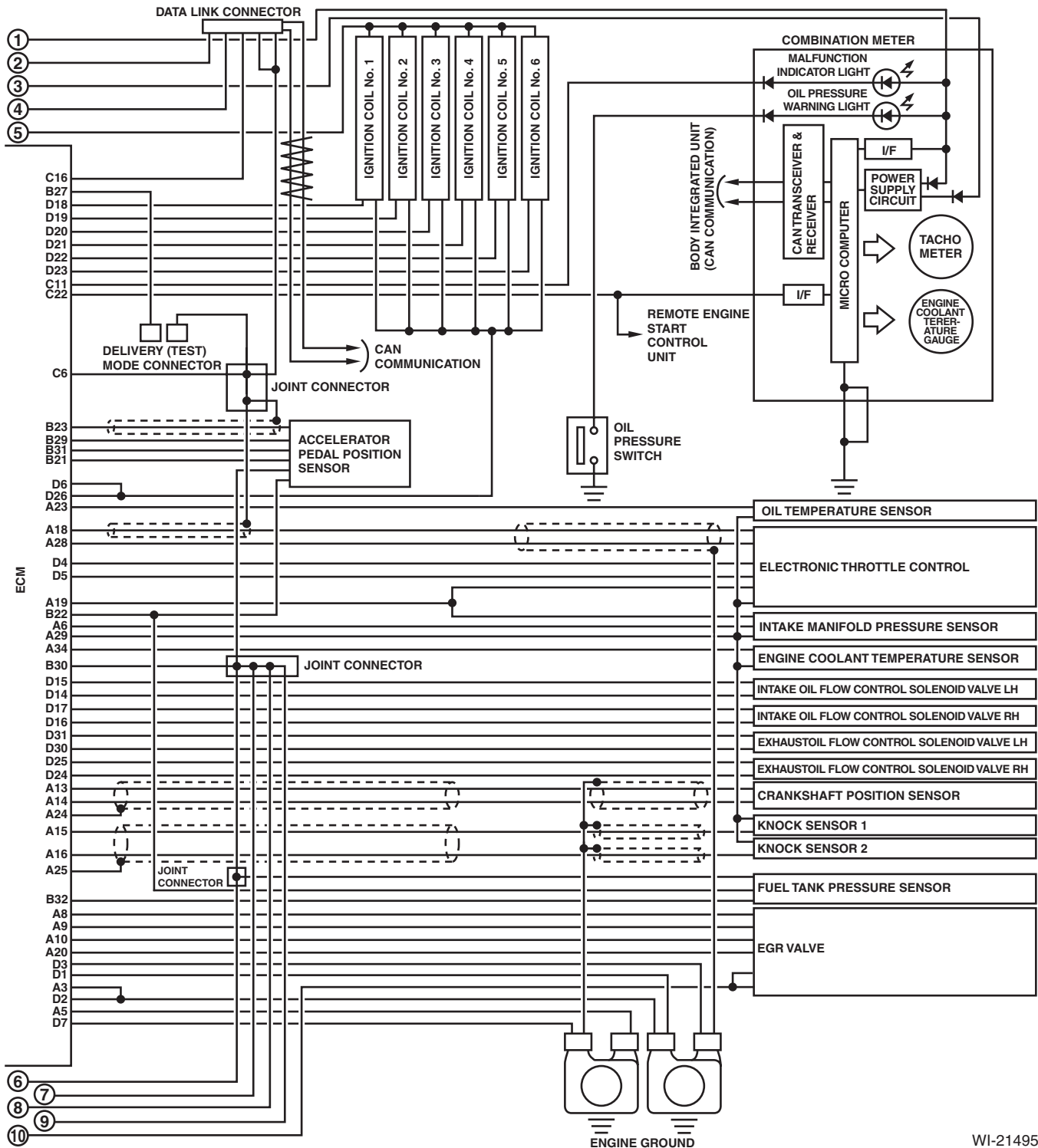
WIRING SYSTEM

5. Engine Electrical System

A: WIRING DIAGRAM



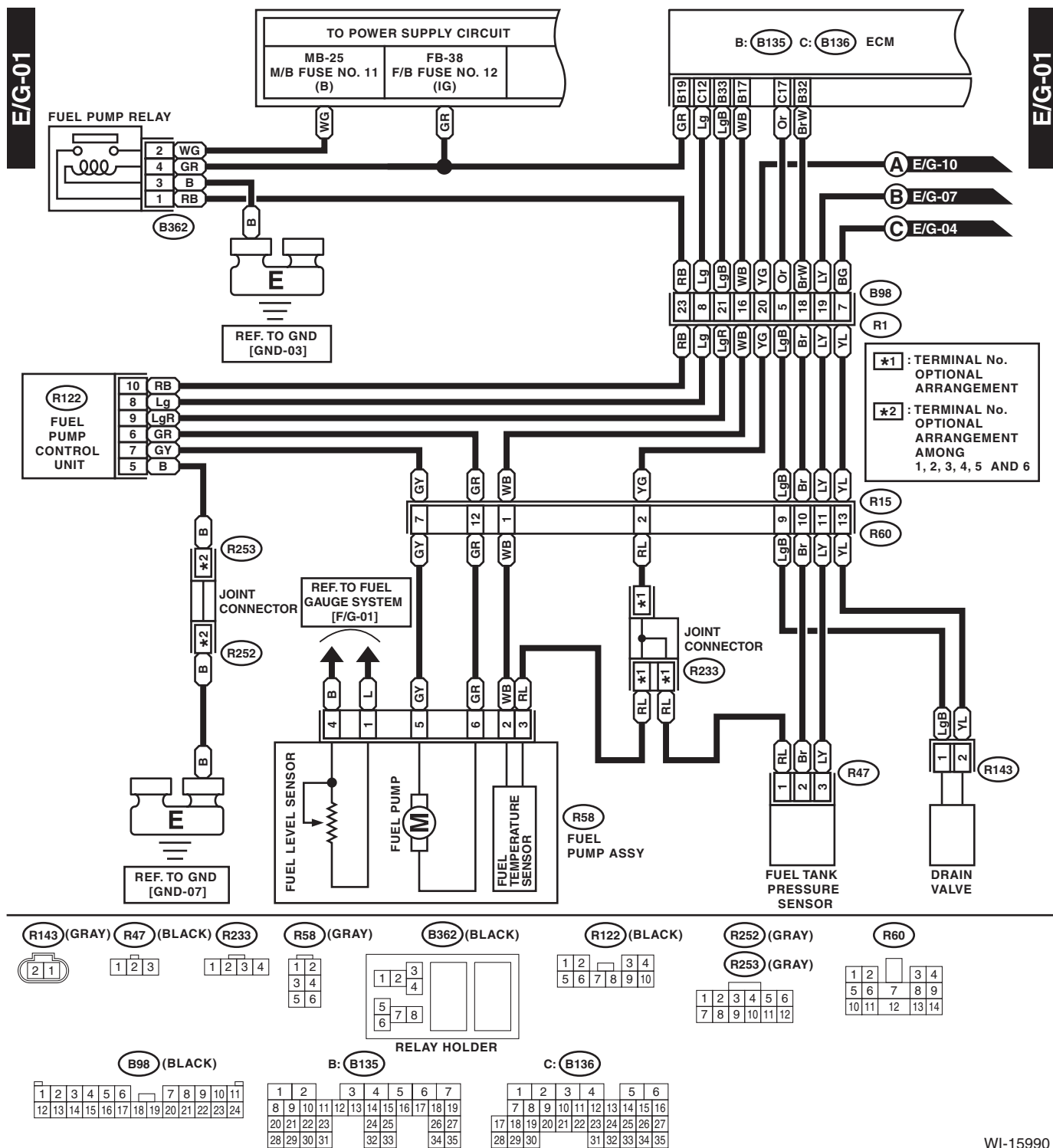
WI-15988

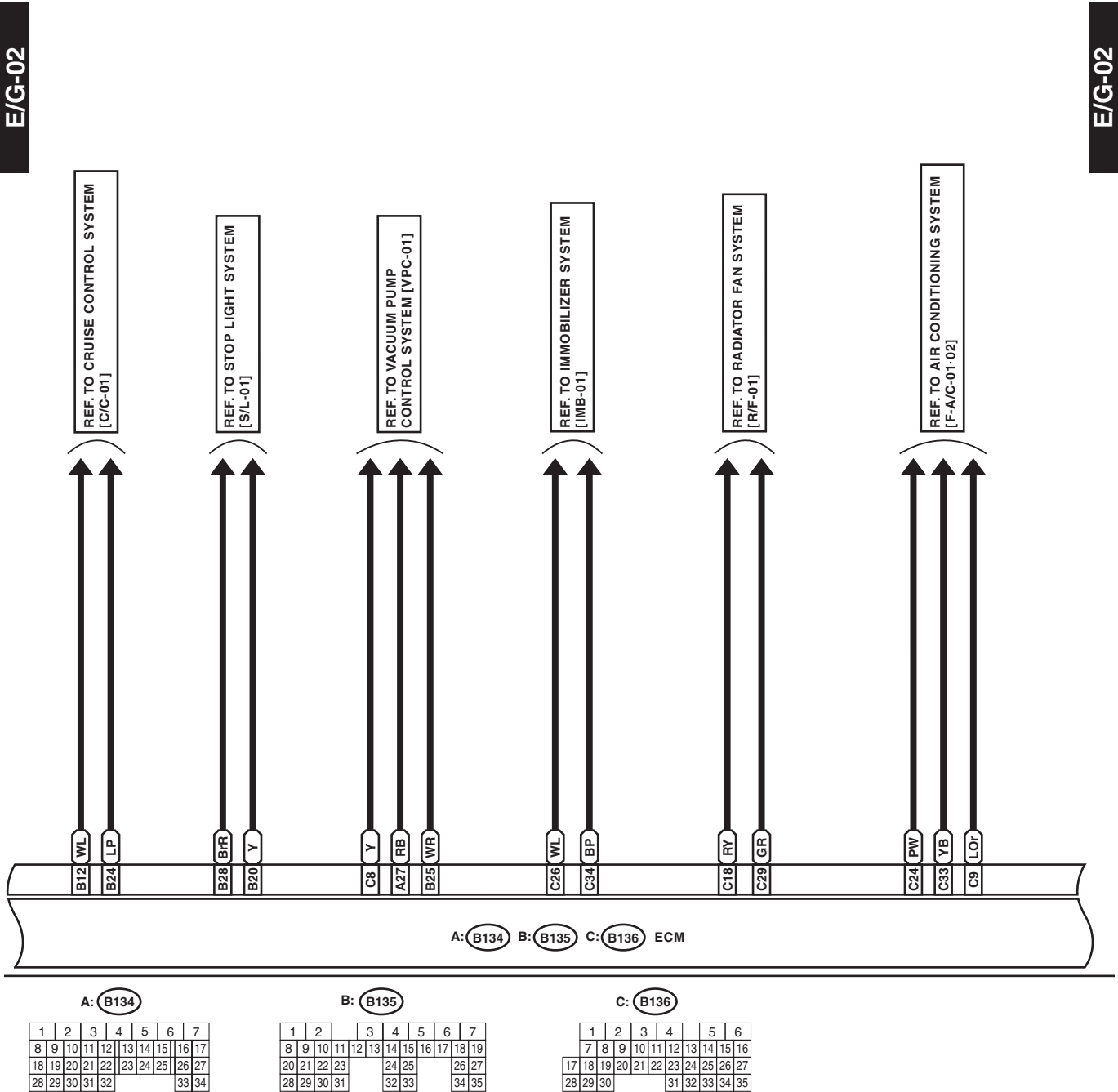


WI-21495

Engine Electrical System

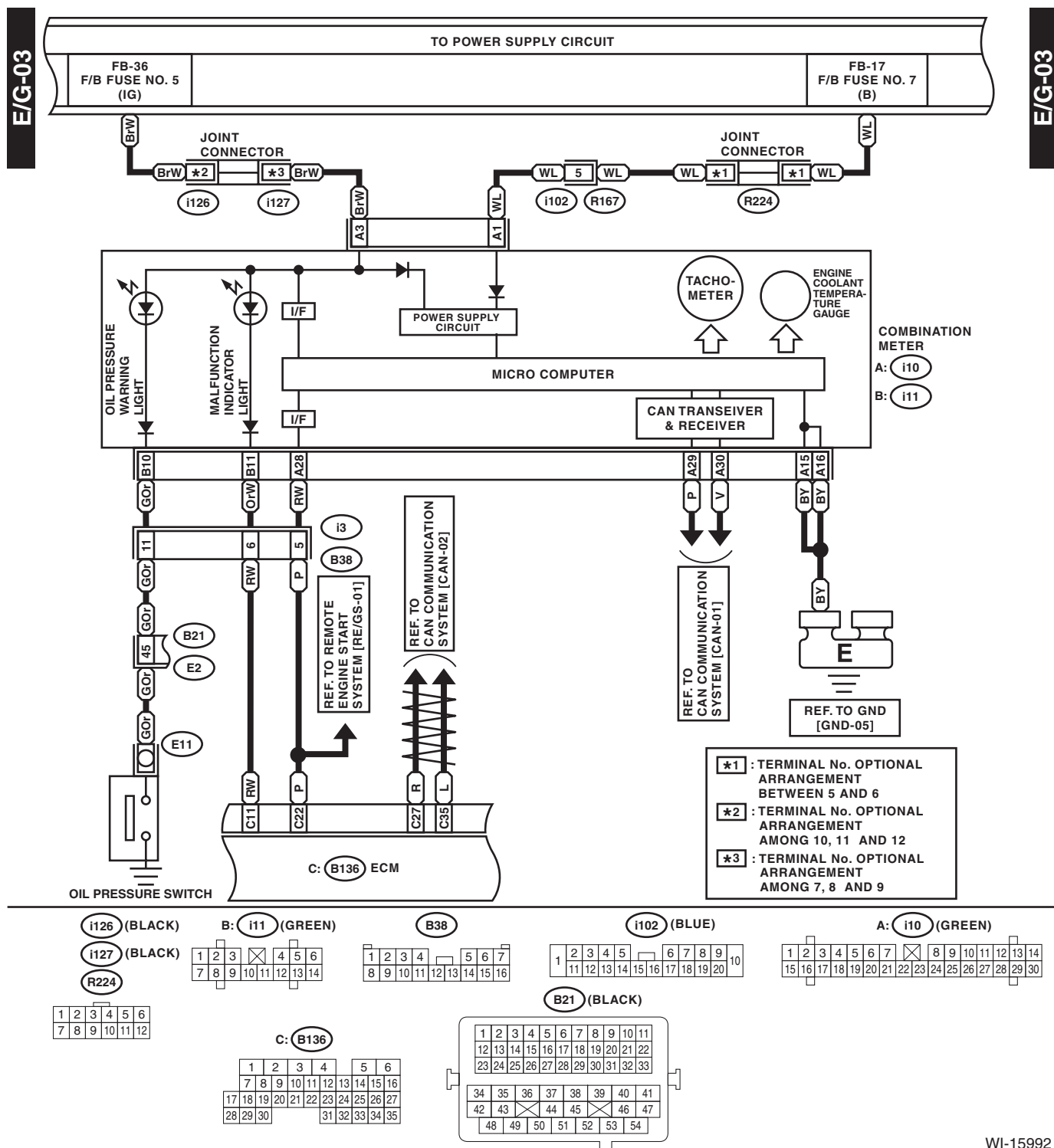
WIRING SYSTEM

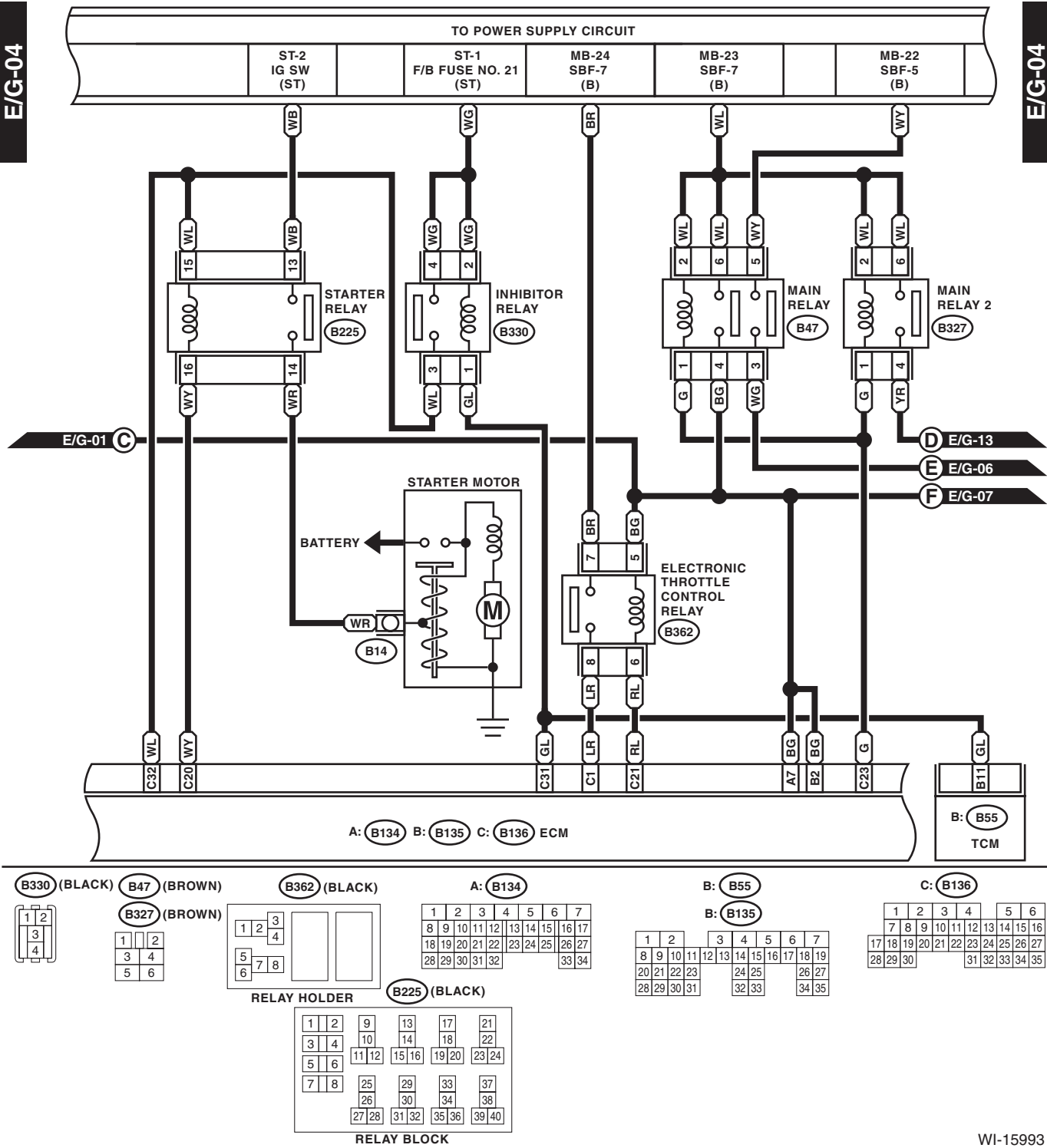




Engine Electrical System

WIRING SYSTEM

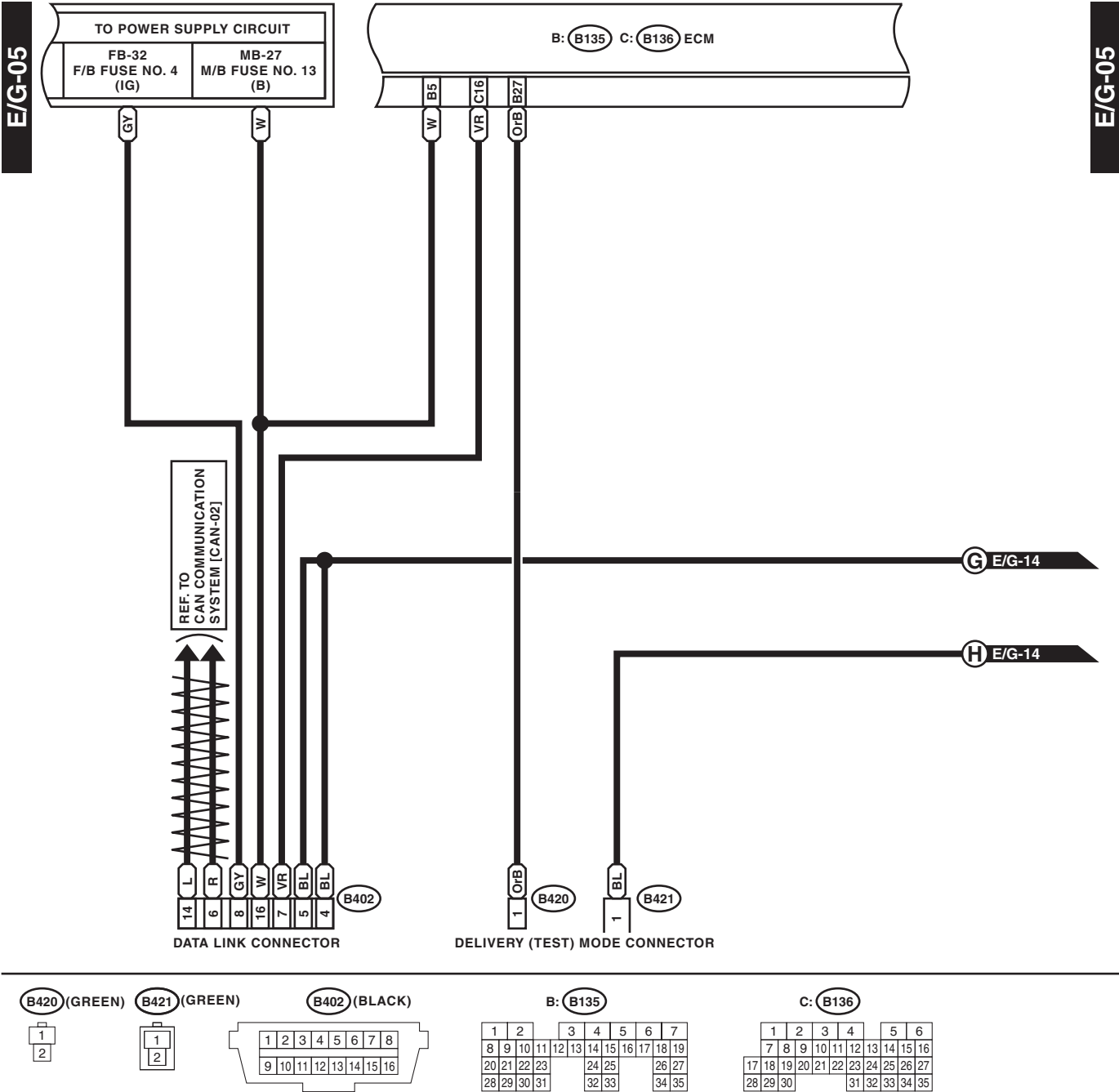




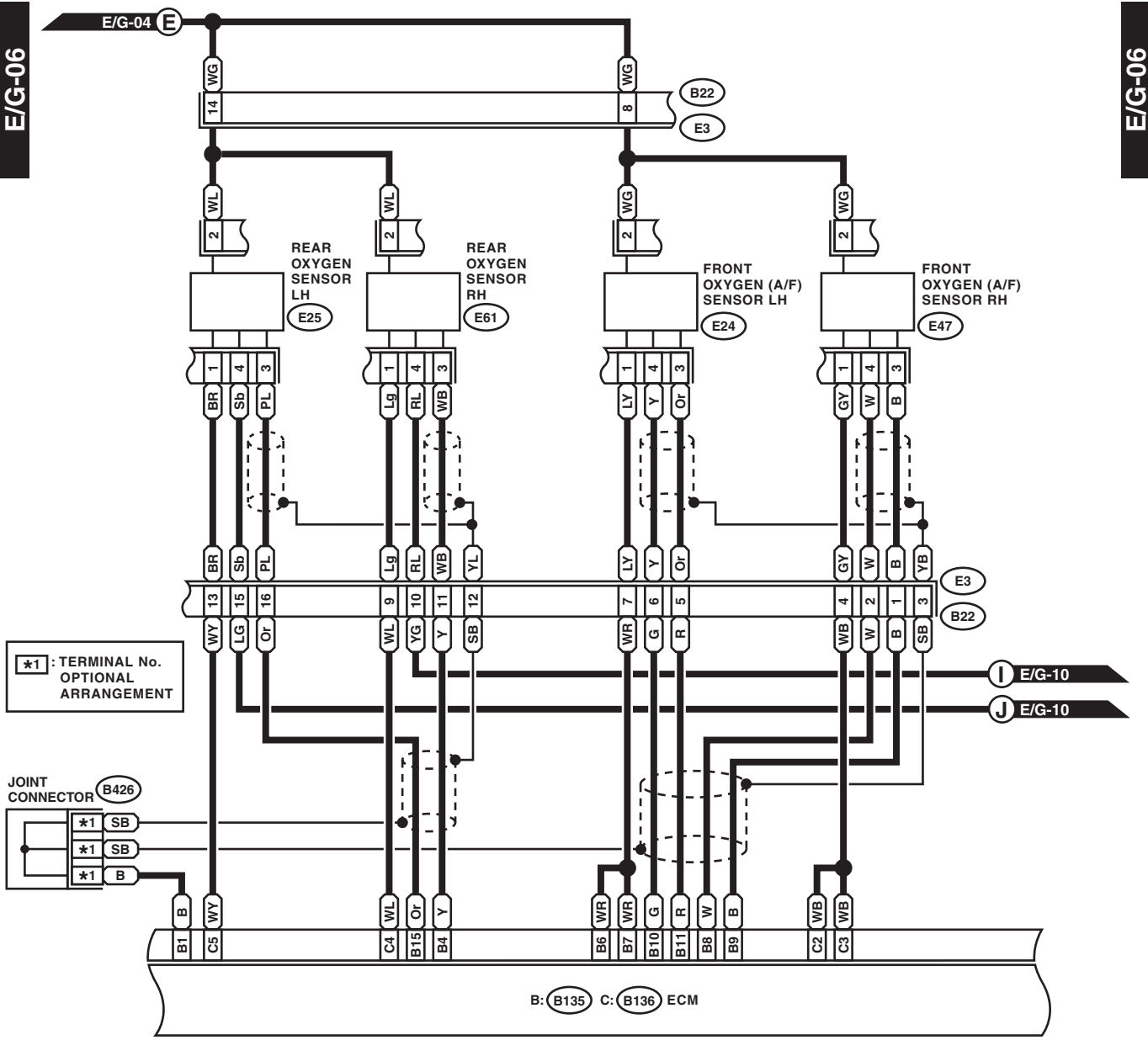
WI-15993

Engine Electrical System

WIRING SYSTEM



WI-15994



E24 (LIGHT GRAY)	B426
E25 (DARK GRAY)	1 2 3
E47 (LIGHT GRAY)	4 5 6
E61 (DARK GRAY)	
	1 2
	3 4

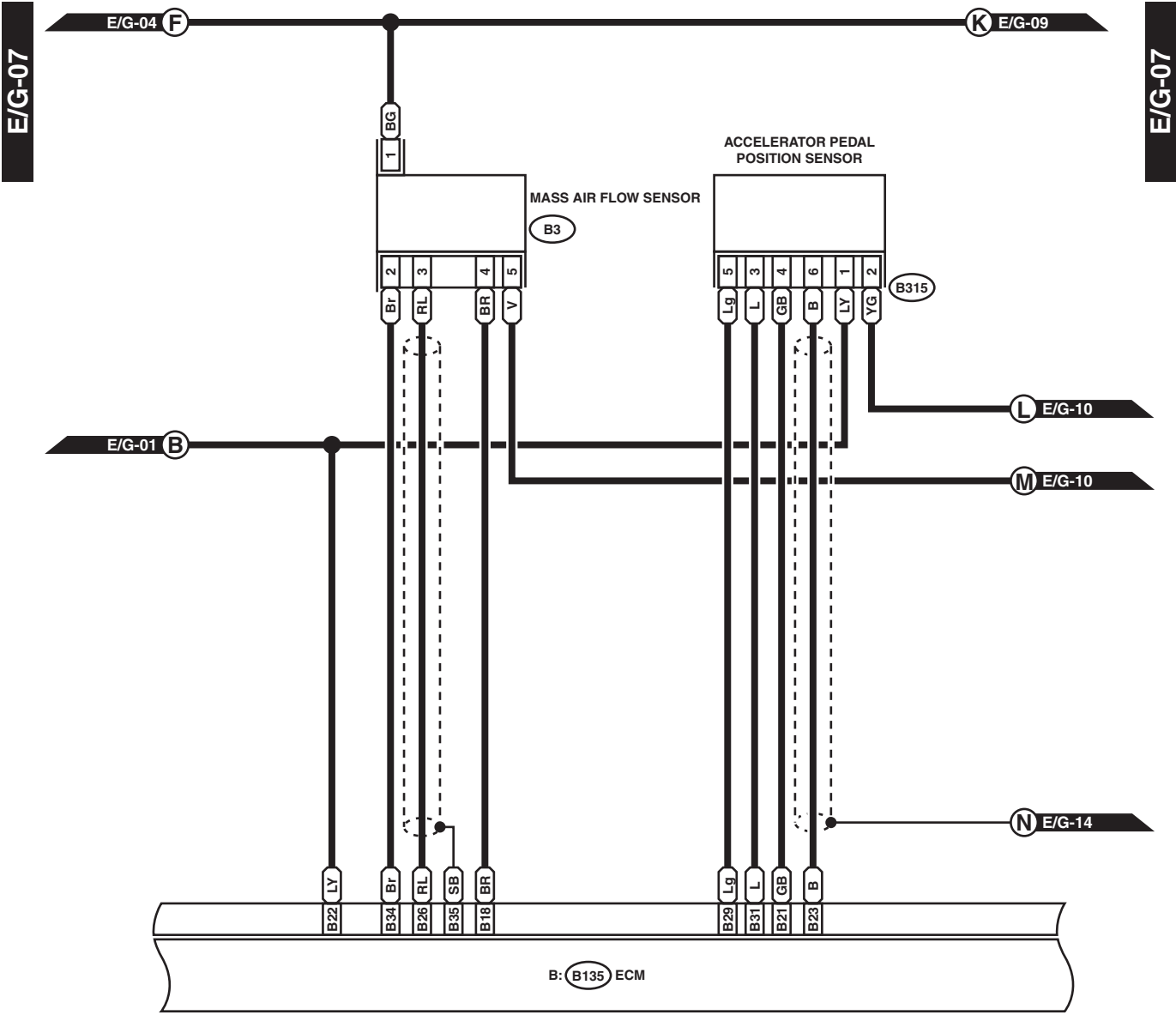
B22 (BROWN)
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16

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

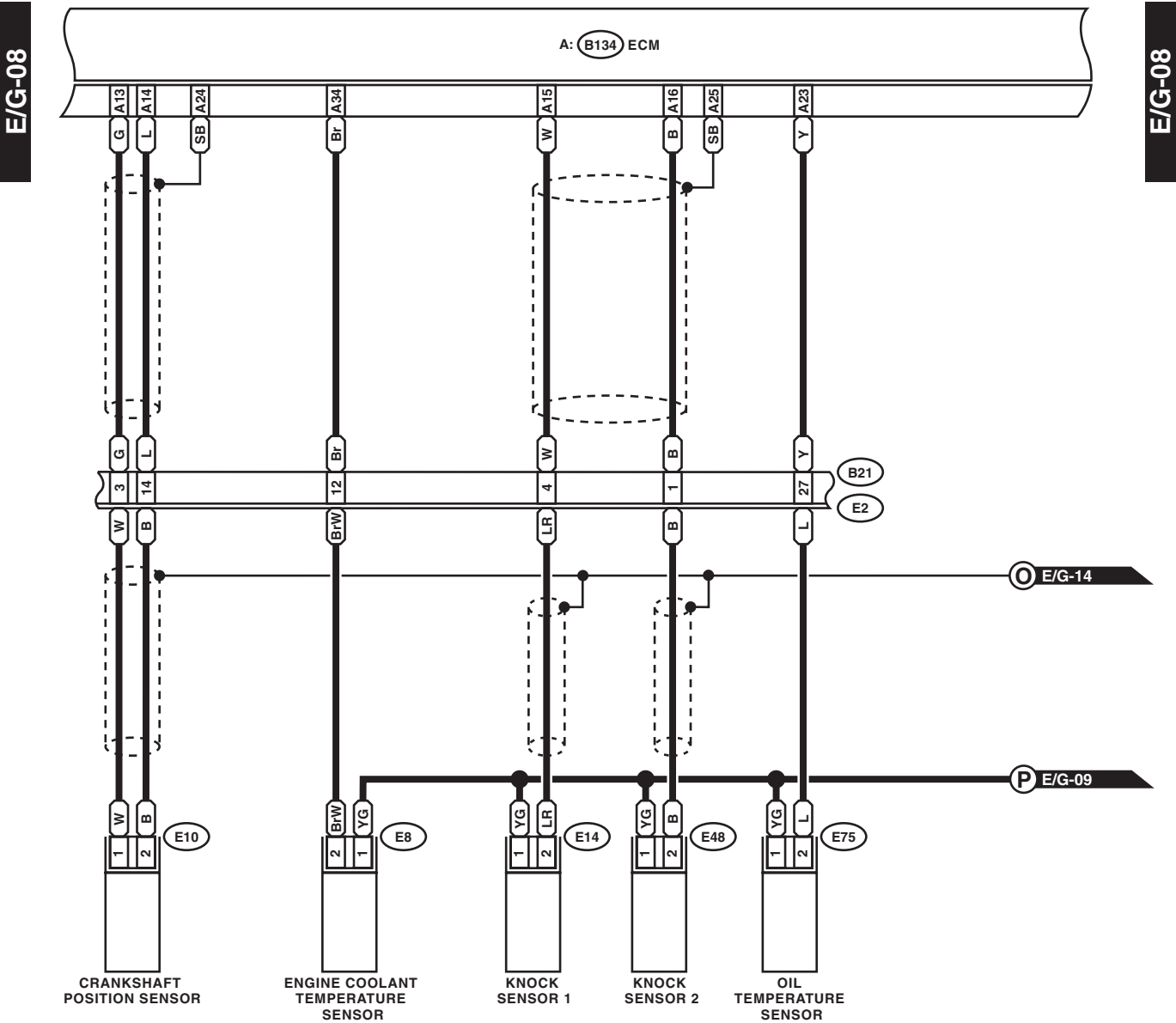
C: (B136)
1 2 3 4 5 6
7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 33 34 35

Engine Electrical System

WIRING SYSTEM



WI-11730



(BROWN) **E8** (BLUE) **E48**
(LIGHT GRAY) **E10** (BLACK) **E75**
(BLUE) **E14**

A: B134

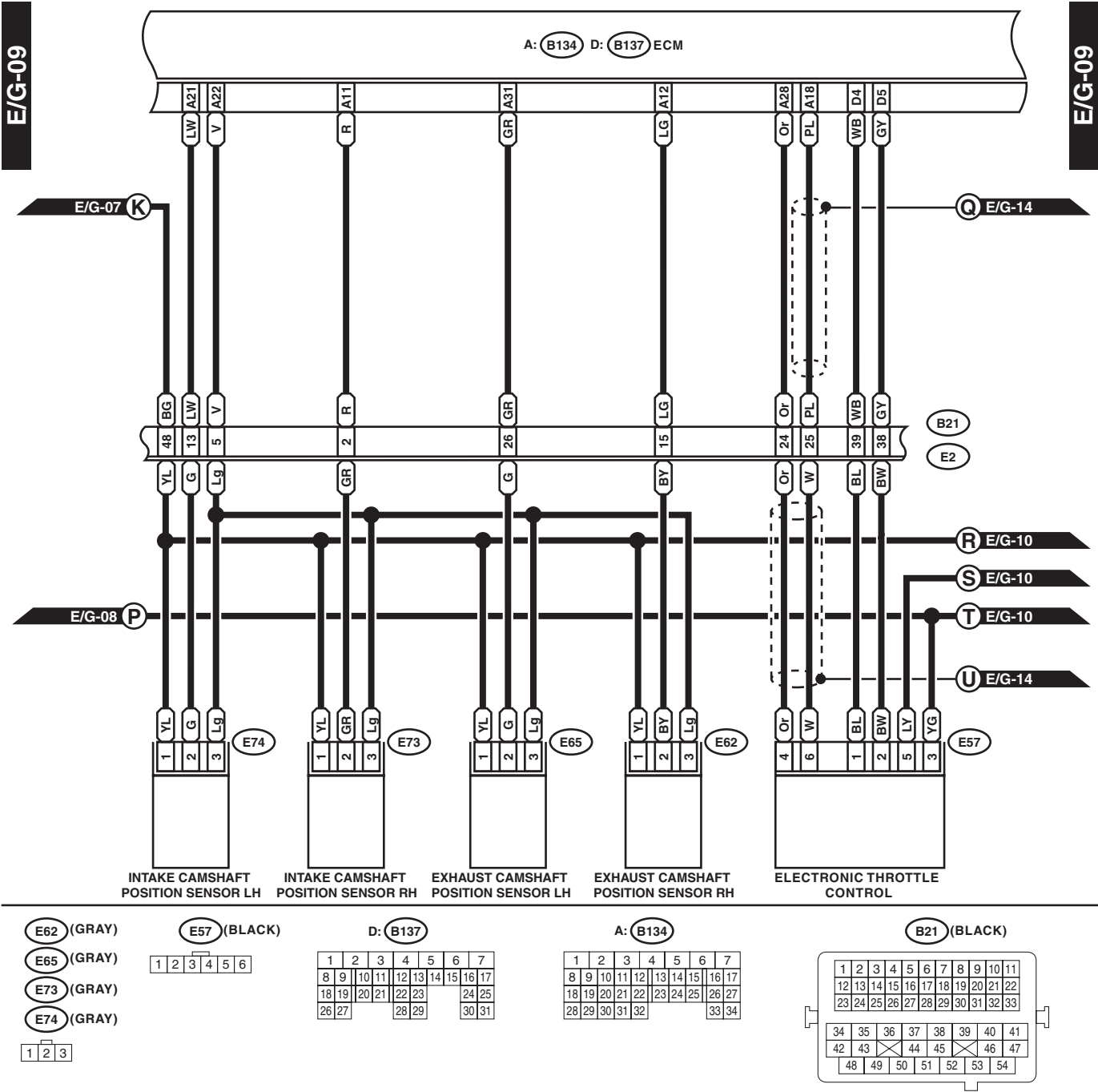
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

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	

Engine Electrical System

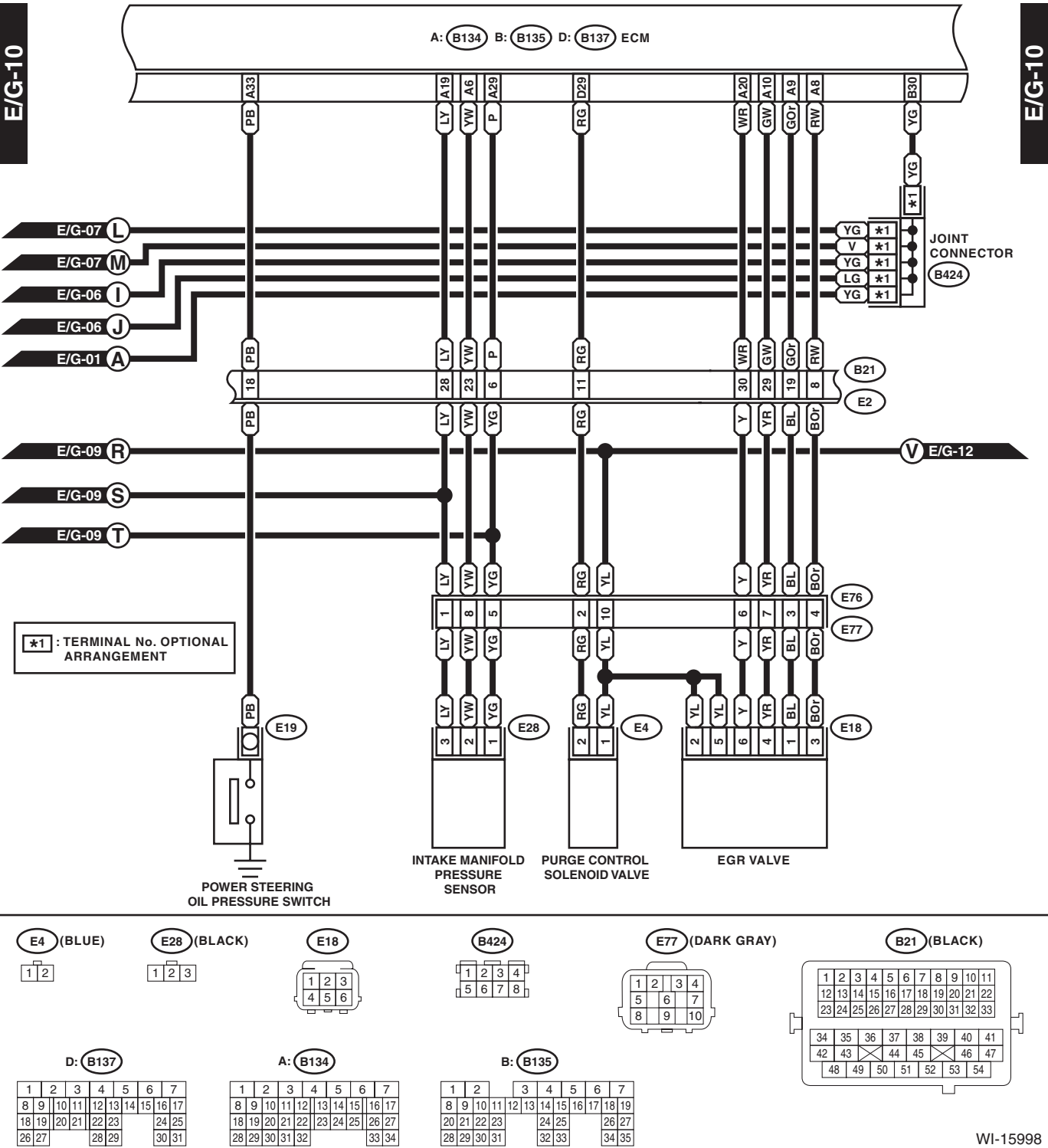
WIRING SYSTEM



WI-15997

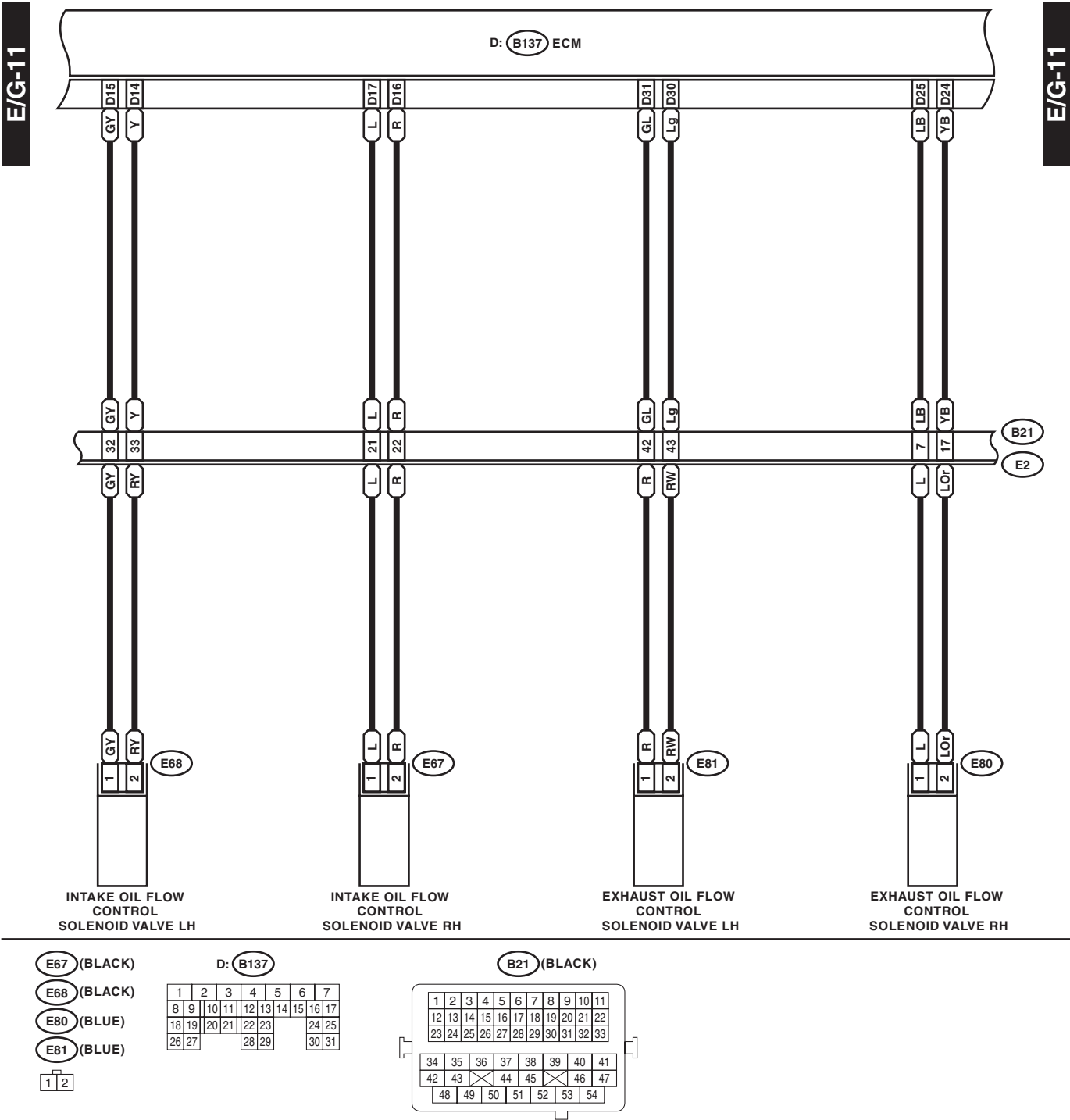
Engine Electrical System

WIRING SYSTEM



Engine Electrical System

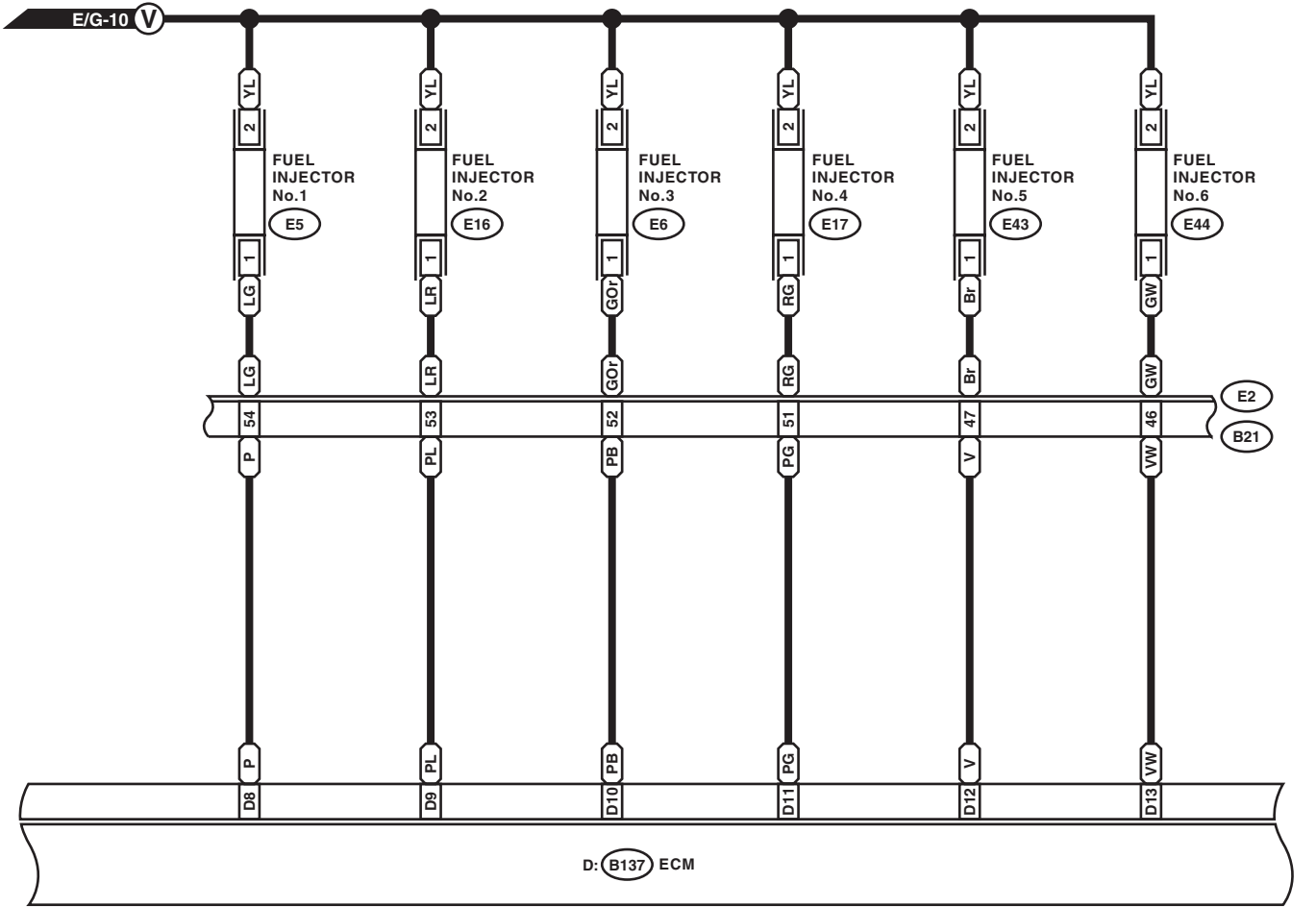
WIRING SYSTEM



WI-15999

E/G-12

E/G-12



- (DARK GRAY) E5 (DARK GRAY) E17 (DARK GRAY) E6 (DARK GRAY) E43 (DARK GRAY) E16 (DARK GRAY) E44
- 1 2

D: B137

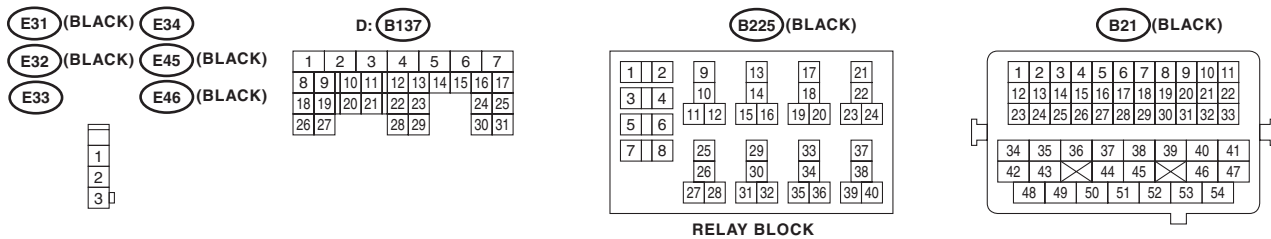
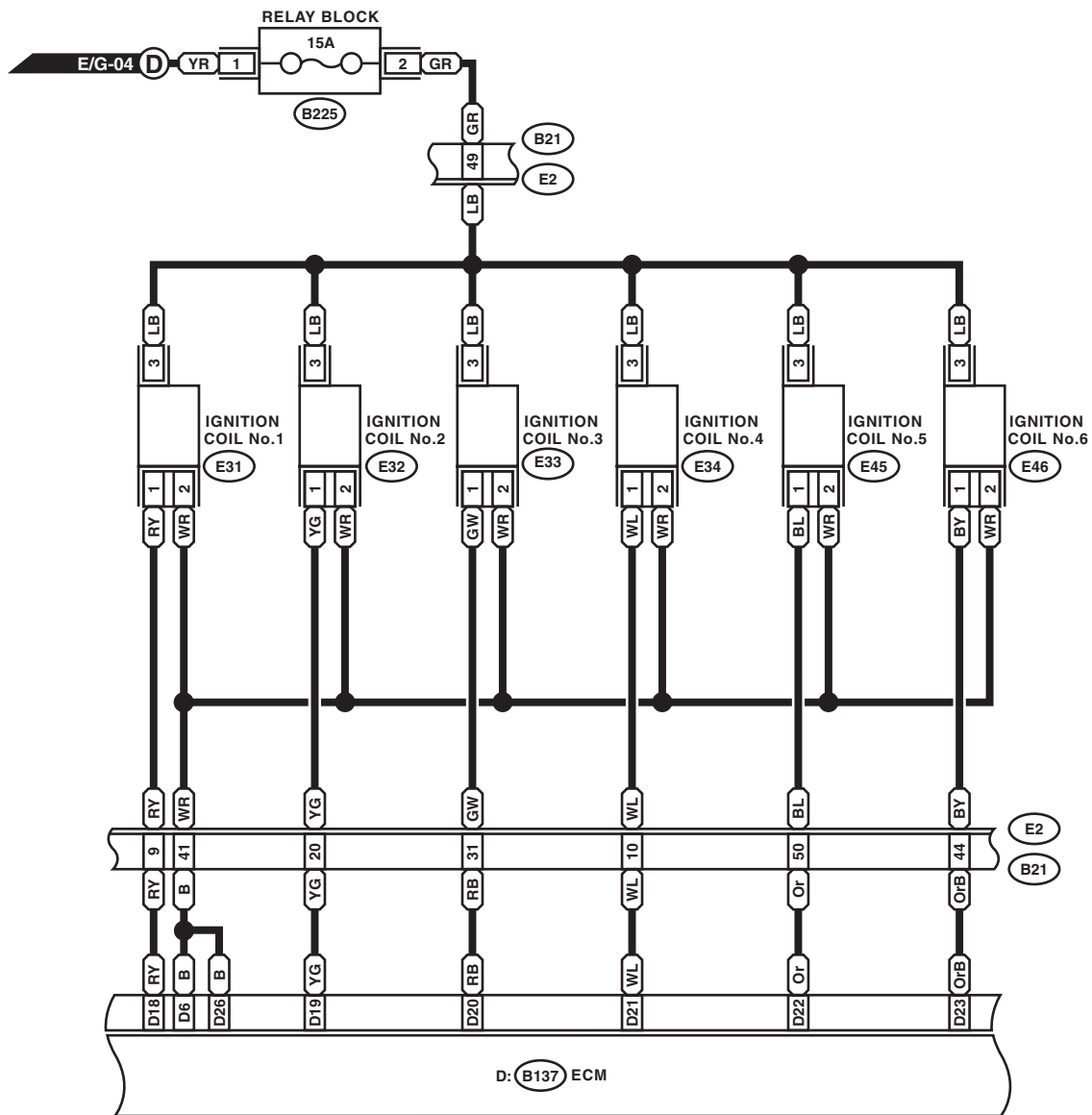
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

B21 (BLACK)

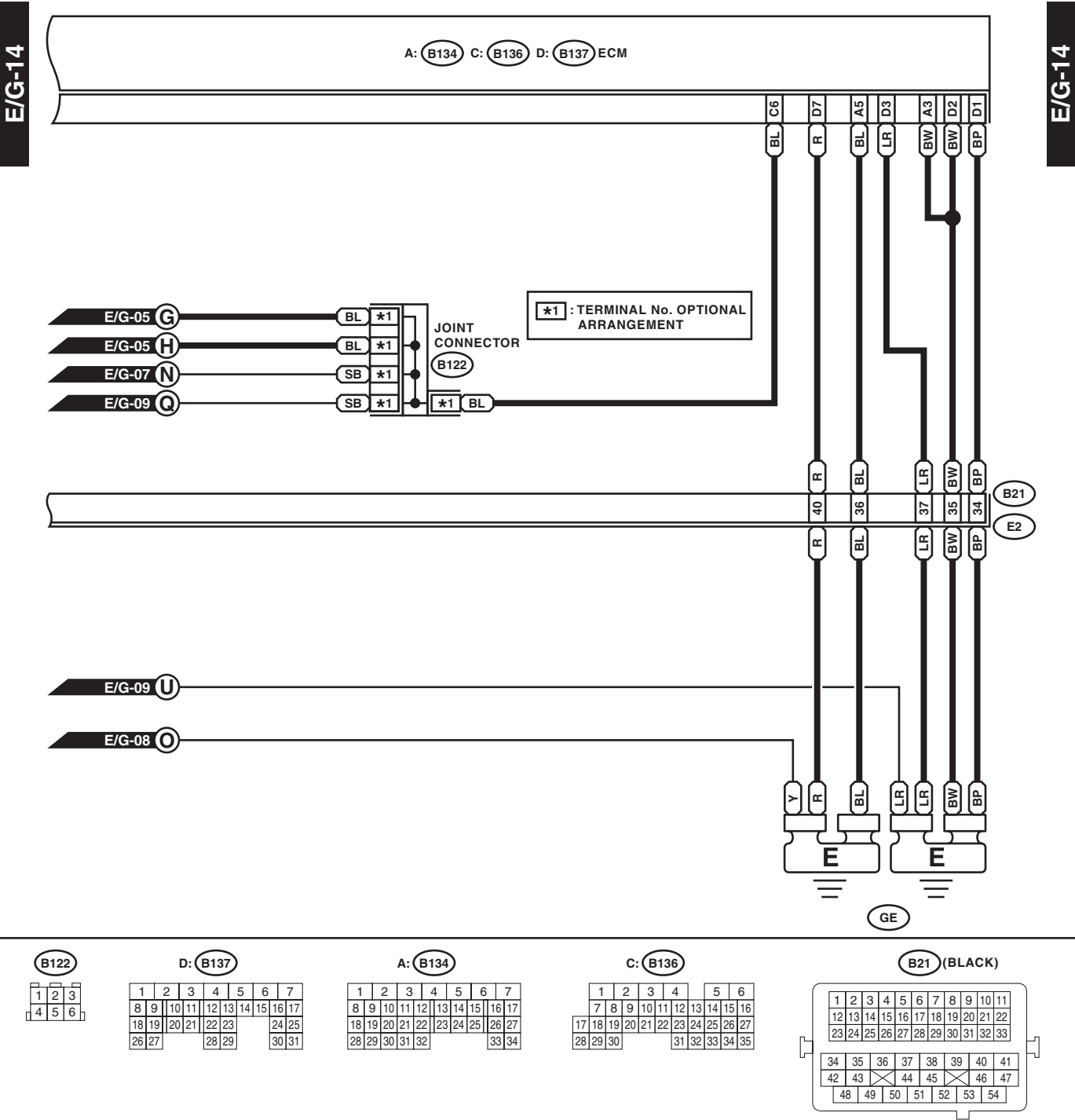
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	

E/G-13

E/G-13



WI-16001



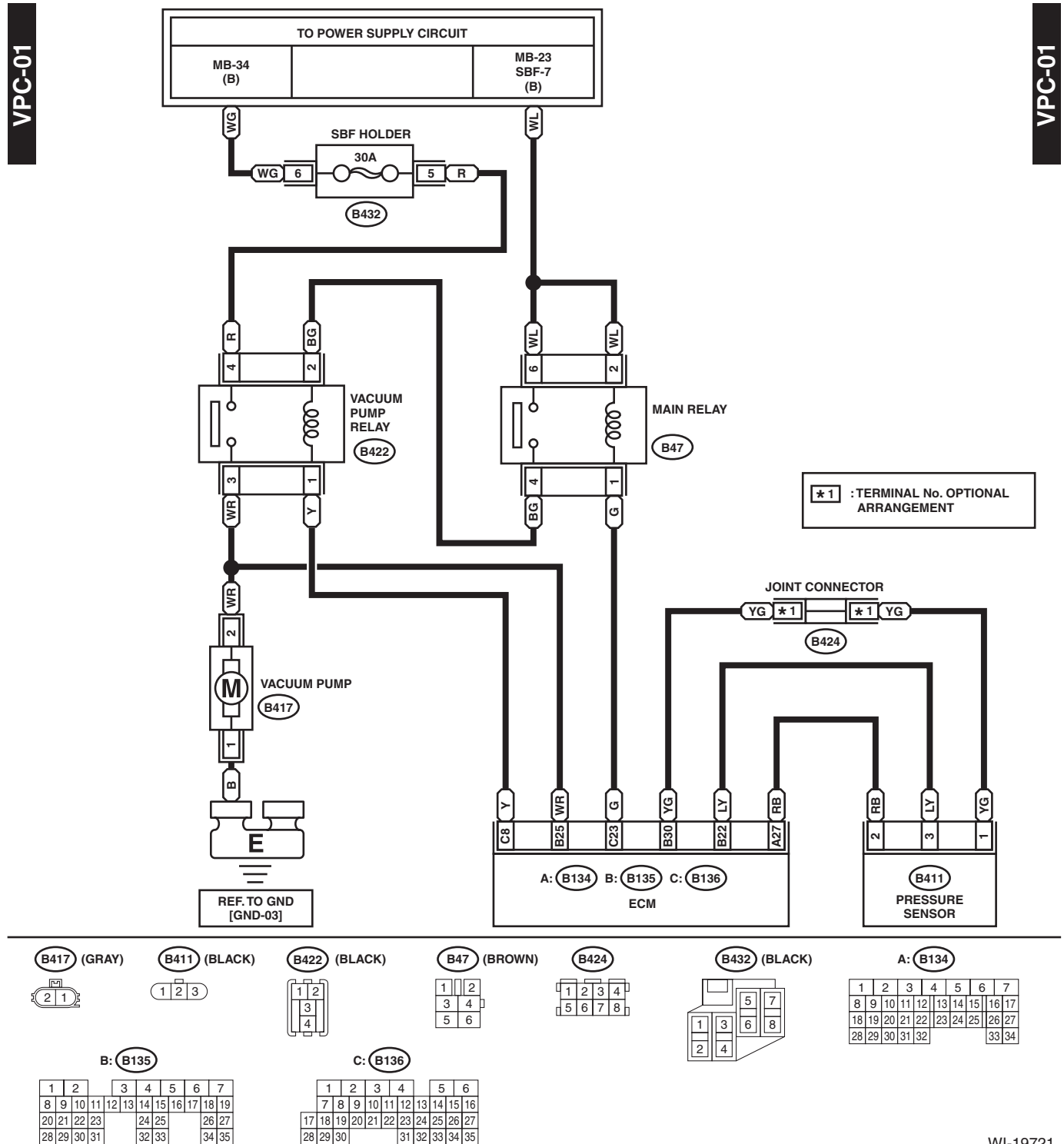
WI-16002

Vacuum Pump Control System

WIRING SYSTEM

6. Vacuum Pump Control System

A: WIRING DIAGRAM



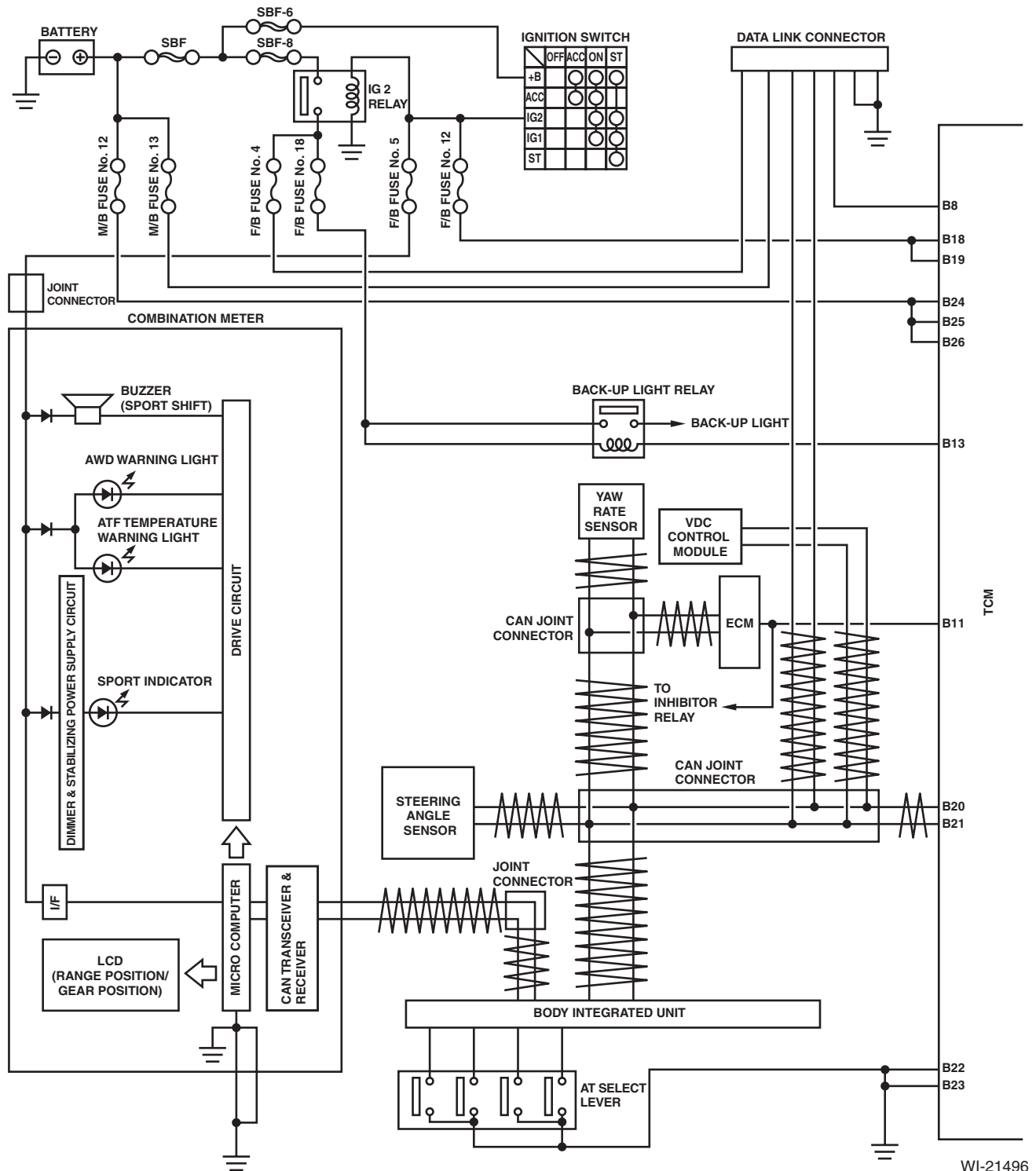
WI-19721

AT Control System

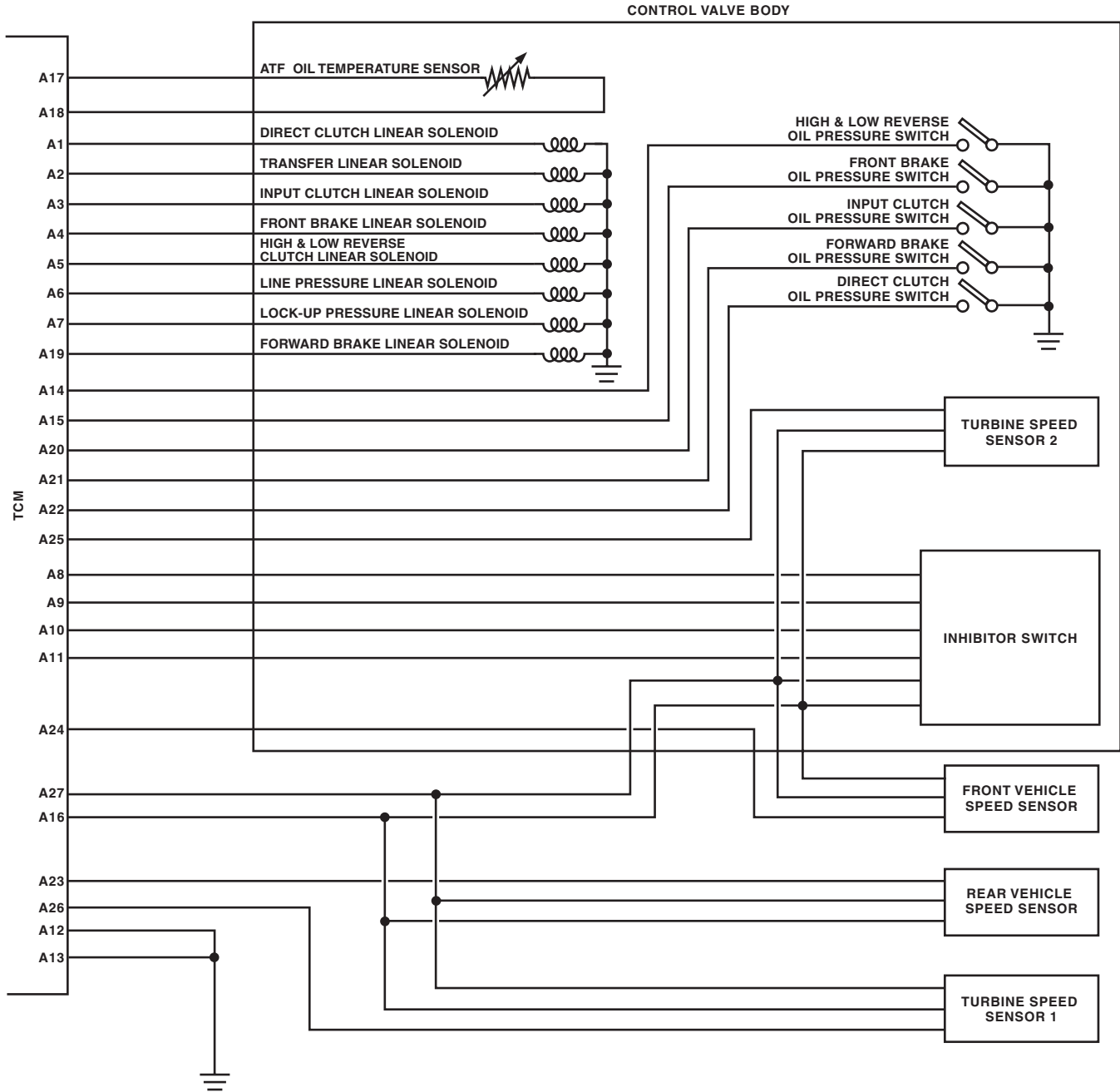
WIRING SYSTEM

7. AT Control System

A: WIRING DIAGRAM



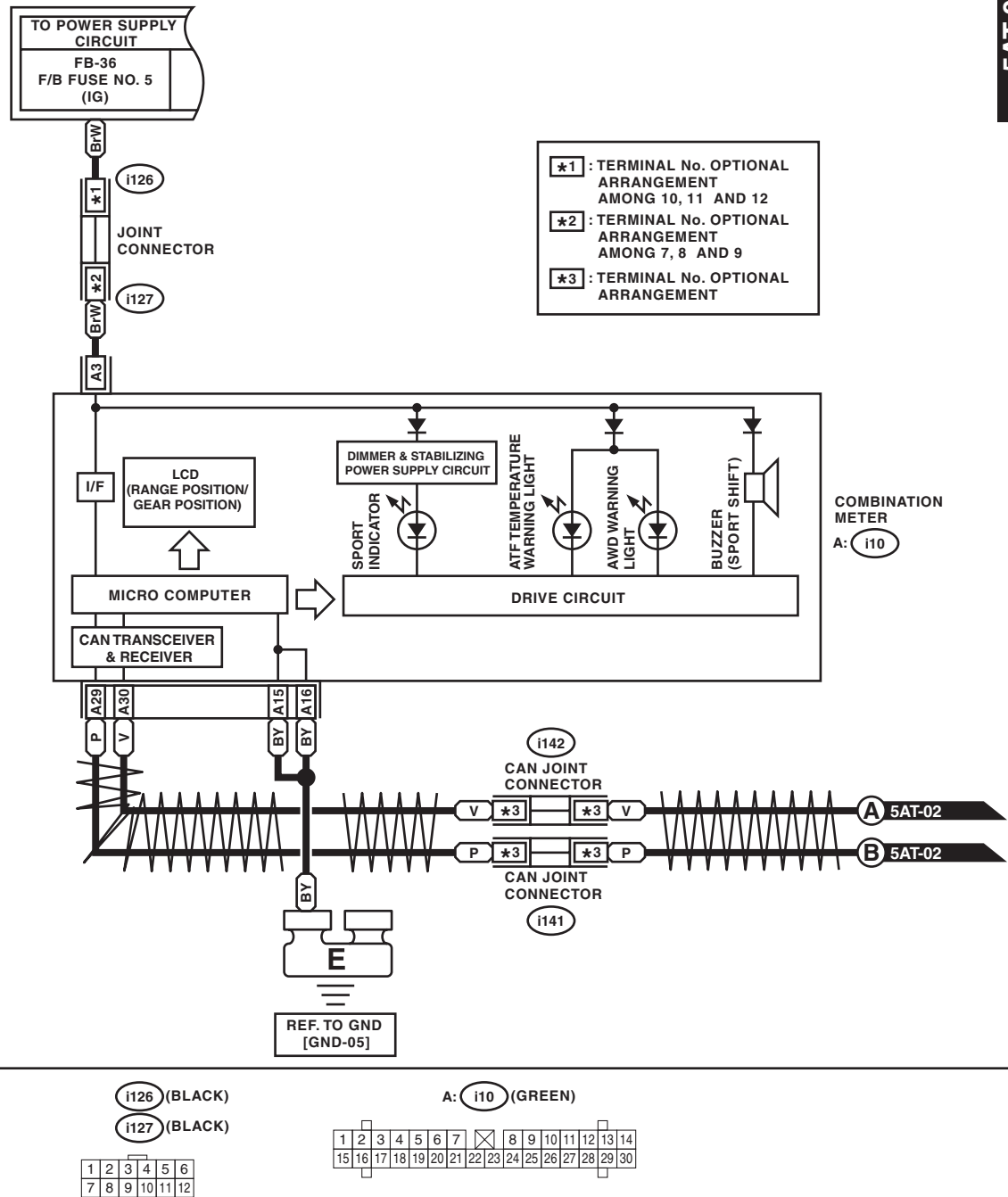
WI-21496

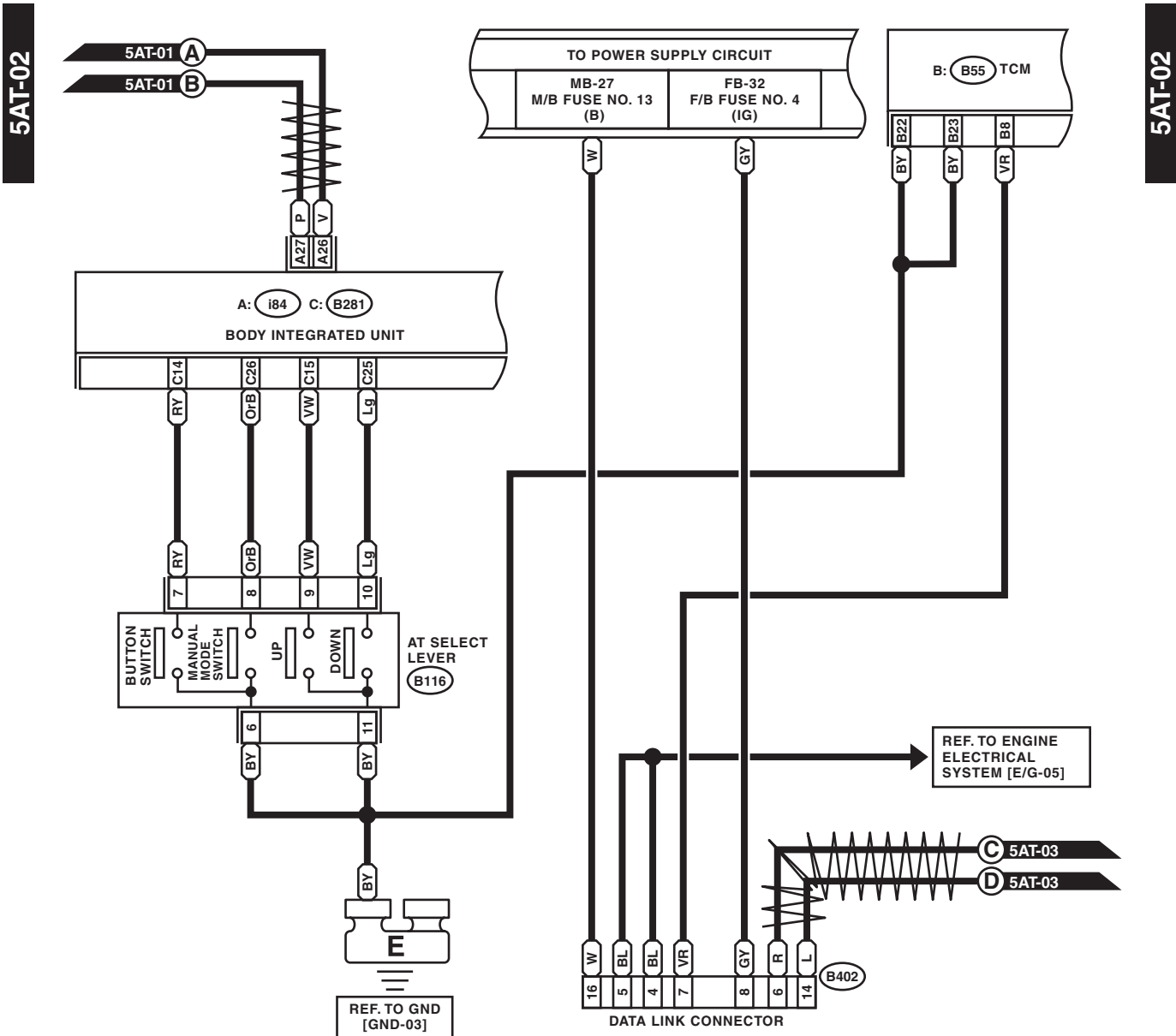


WIRING SYSTEM

5AT-01

5AT-01





B116

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

B402 (BLACK)

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

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

B: B55

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

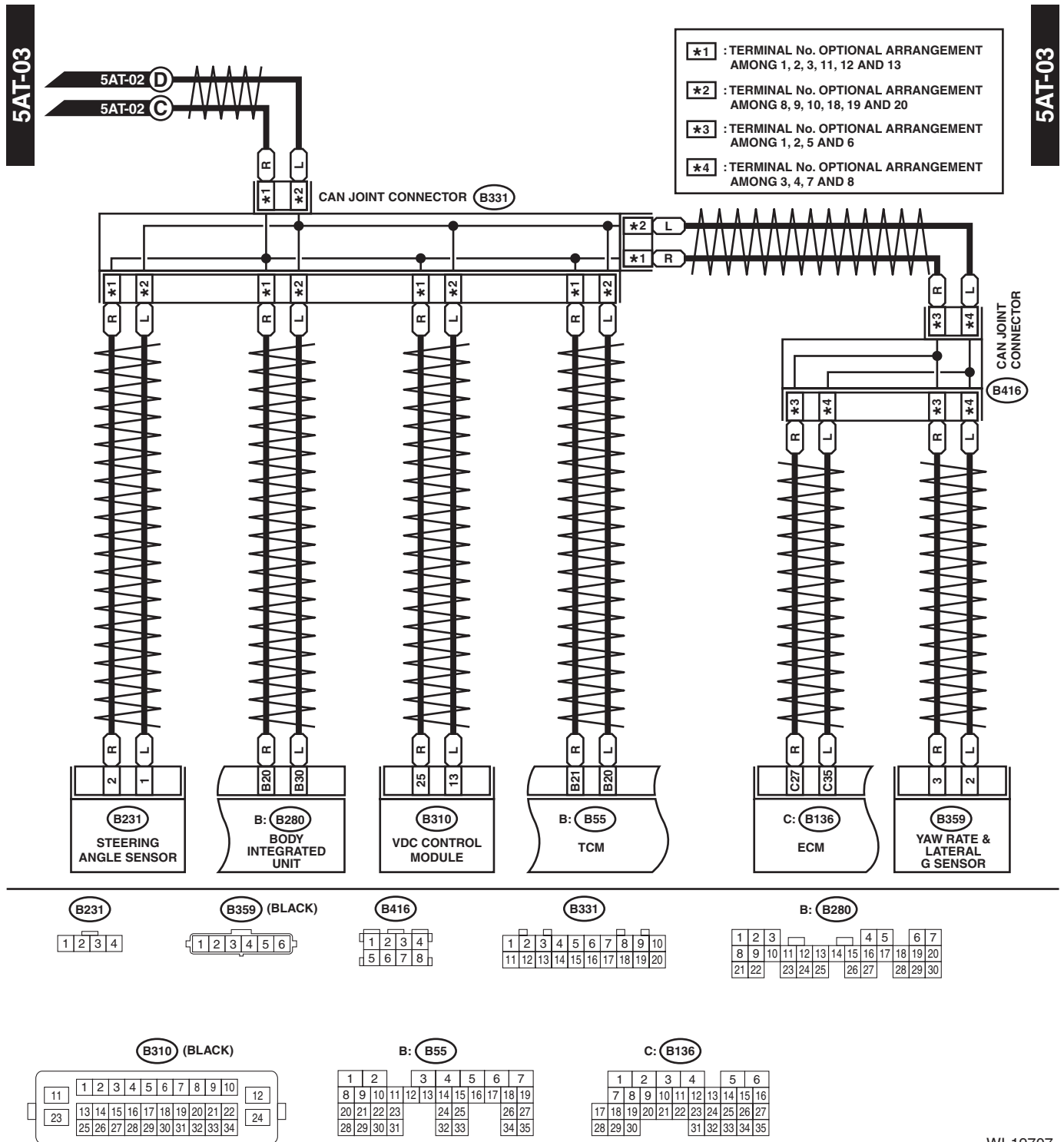
A: i84 (GRAY)

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					

WI-16007

AT Control System

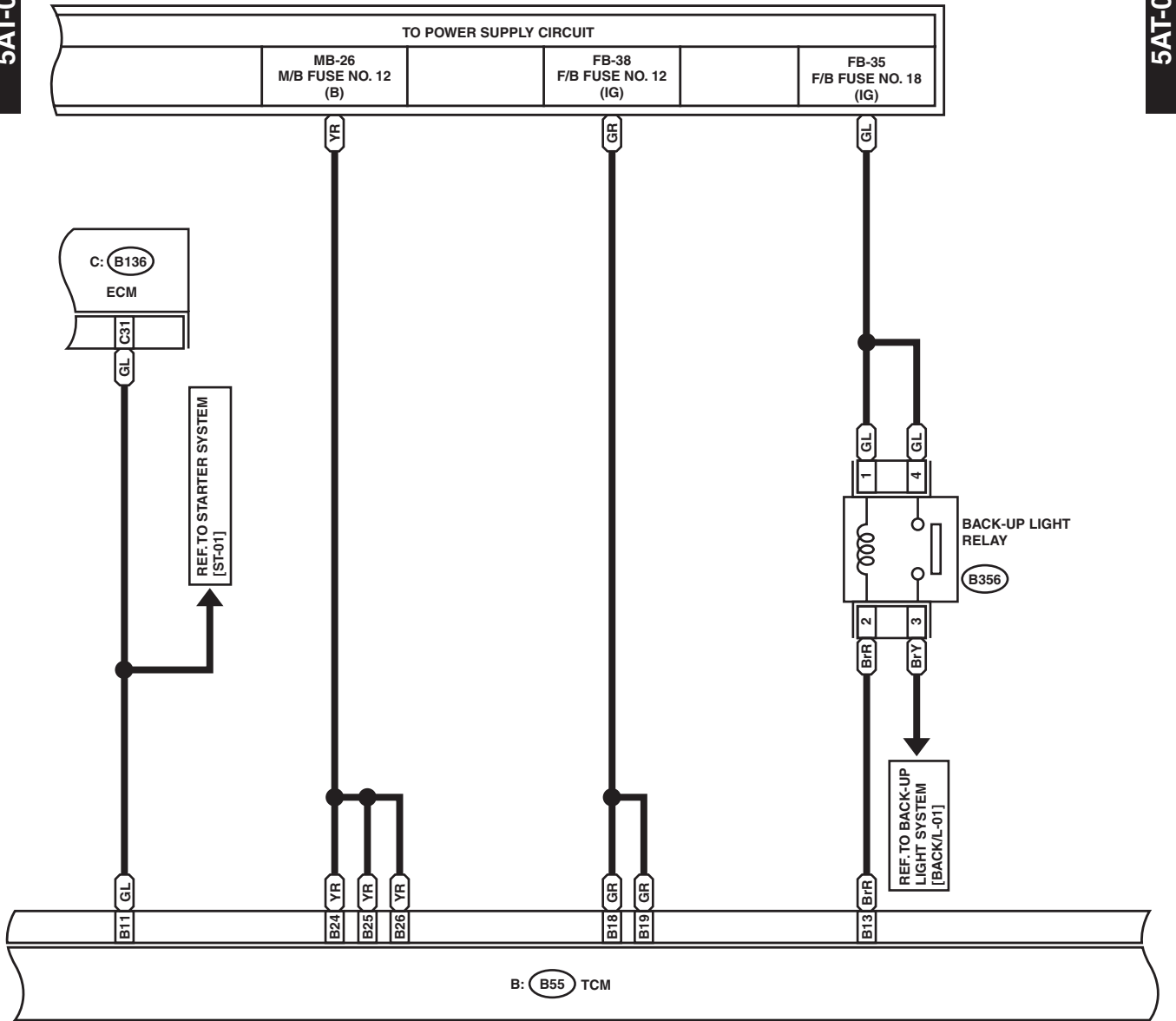
WIRING SYSTEM



WI-19707

5AT-04

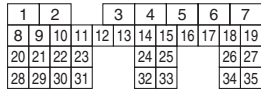
5AT-04



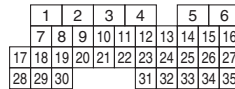
B356 (BLACK)



B: B55



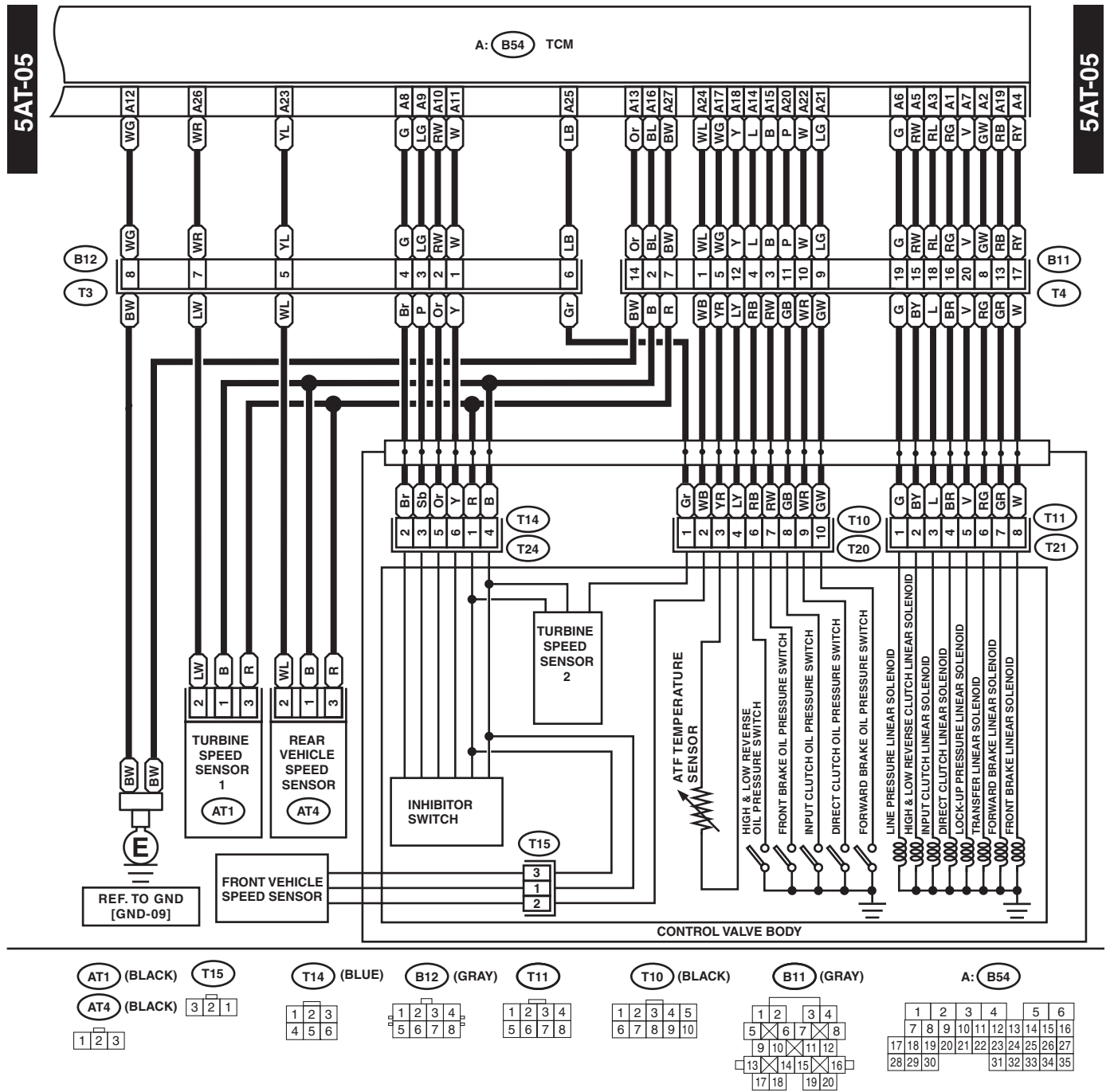
C: B136



WI-16009

AT Control System

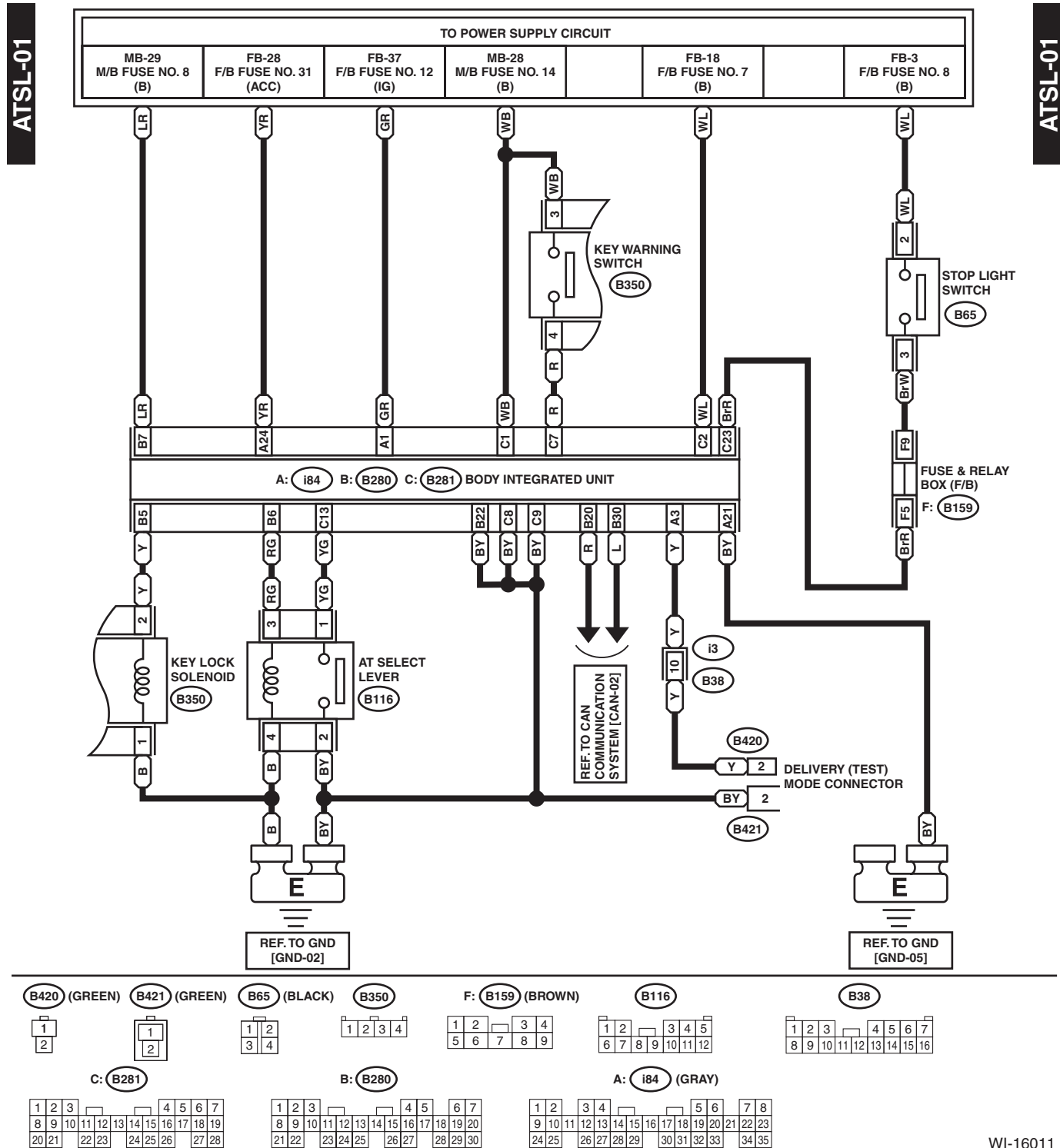
WIRING SYSTEM



WI-16010

8. AT Shift Lock Control System

A: WIRING DIAGRAM



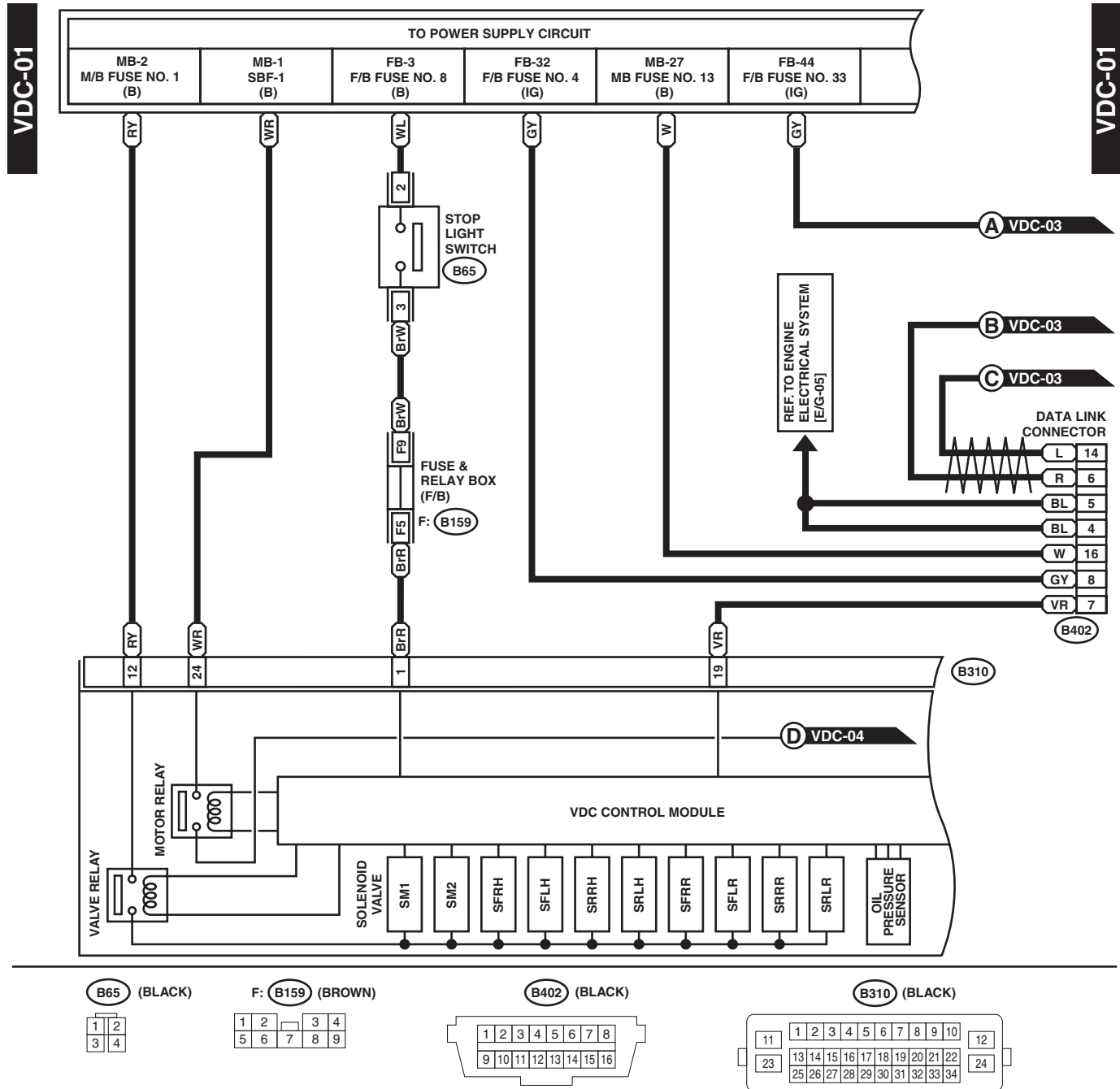
WI-16011

Vehicle Dynamics Control System

WIRING SYSTEM

9. Vehicle Dynamics Control System

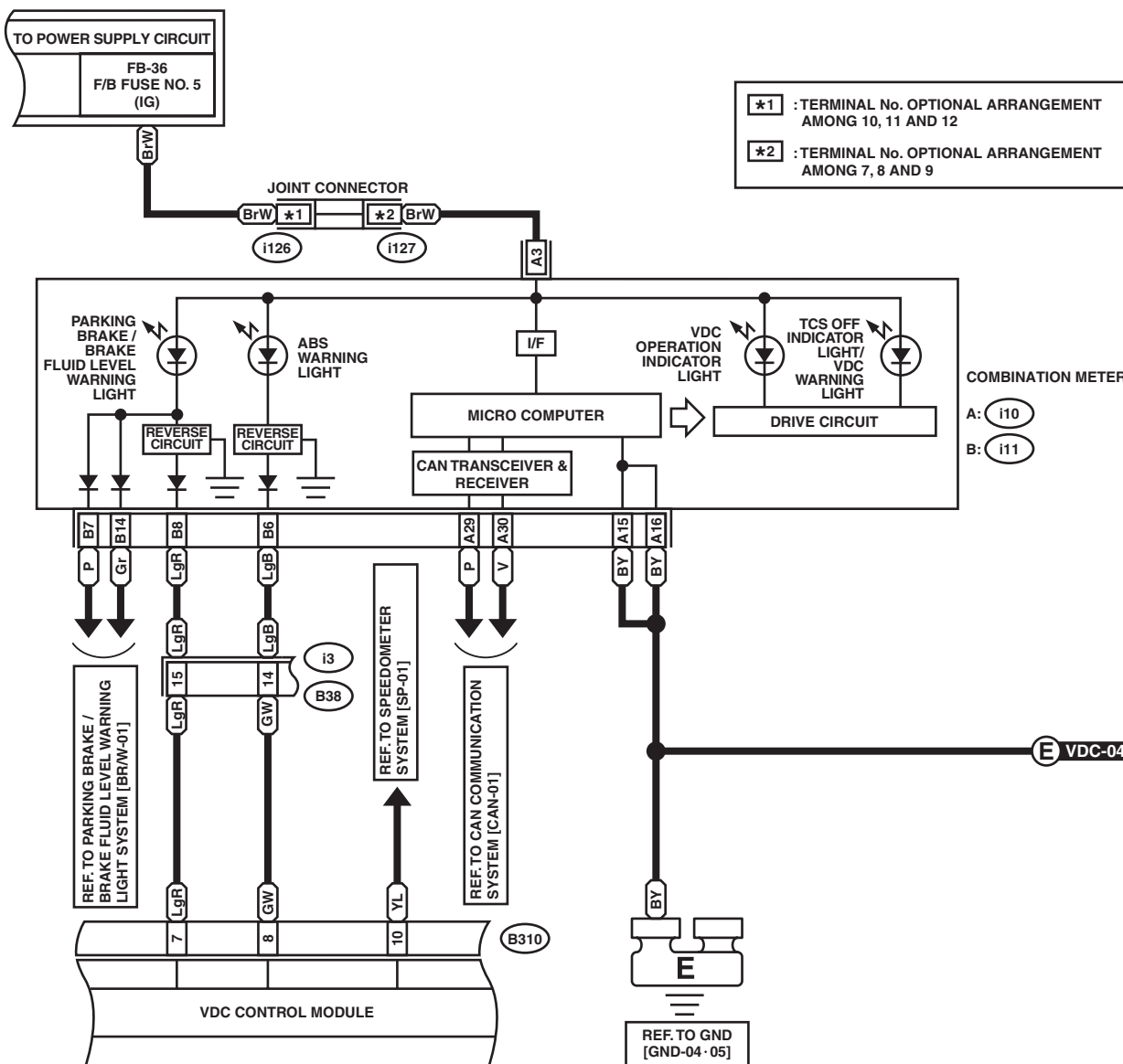
A: WIRING DIAGRAM



WI-19708

VDC-02

VDC-02



i126 (BLACK)
i127 (BLACK)

B: i11 (GREEN)

B38

A: i10 (GREEN)

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

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

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	36	37	38	39	40	41	42

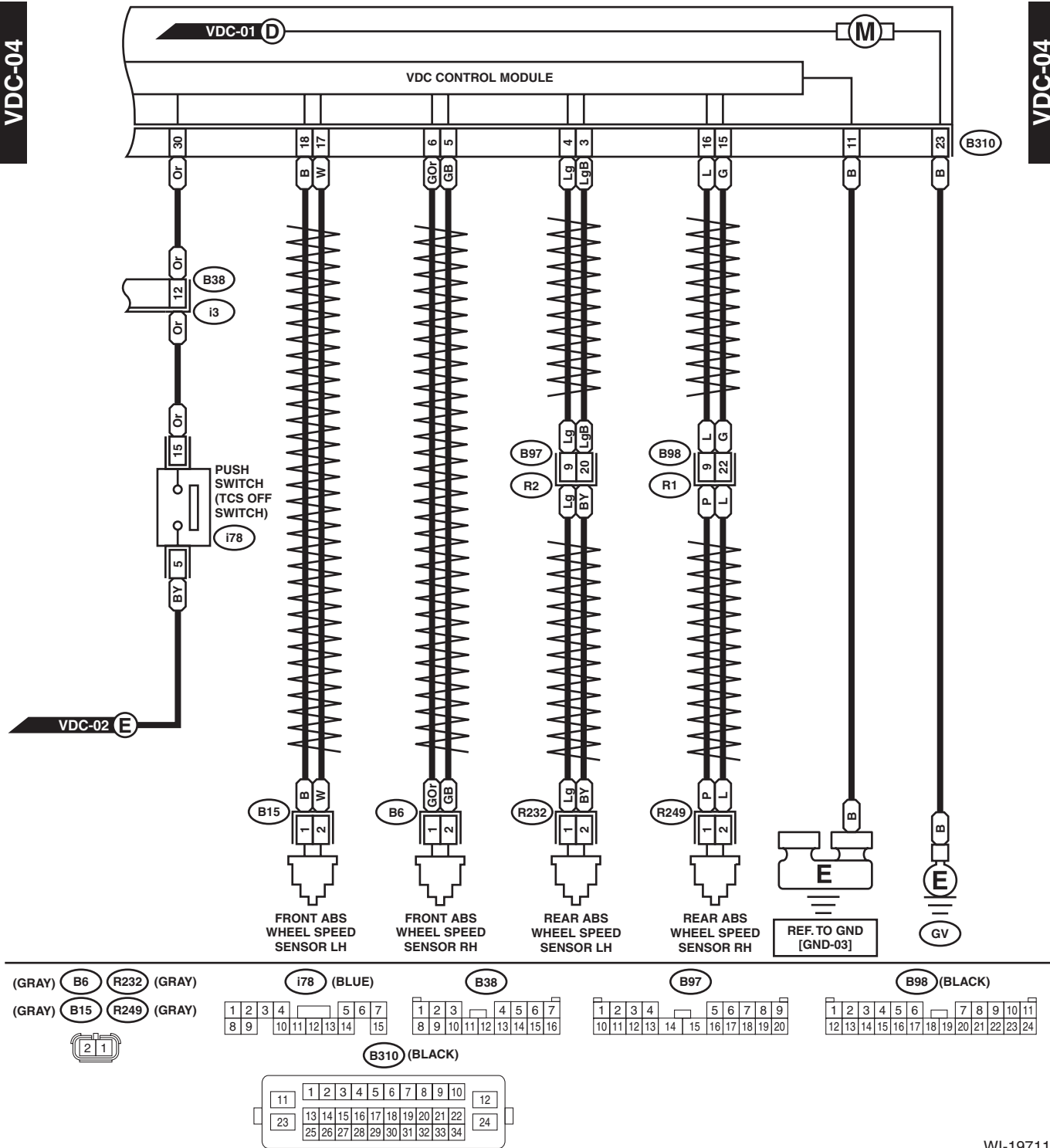
B310 (BLACK)

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

WI-19709

WIRING SYSTEM

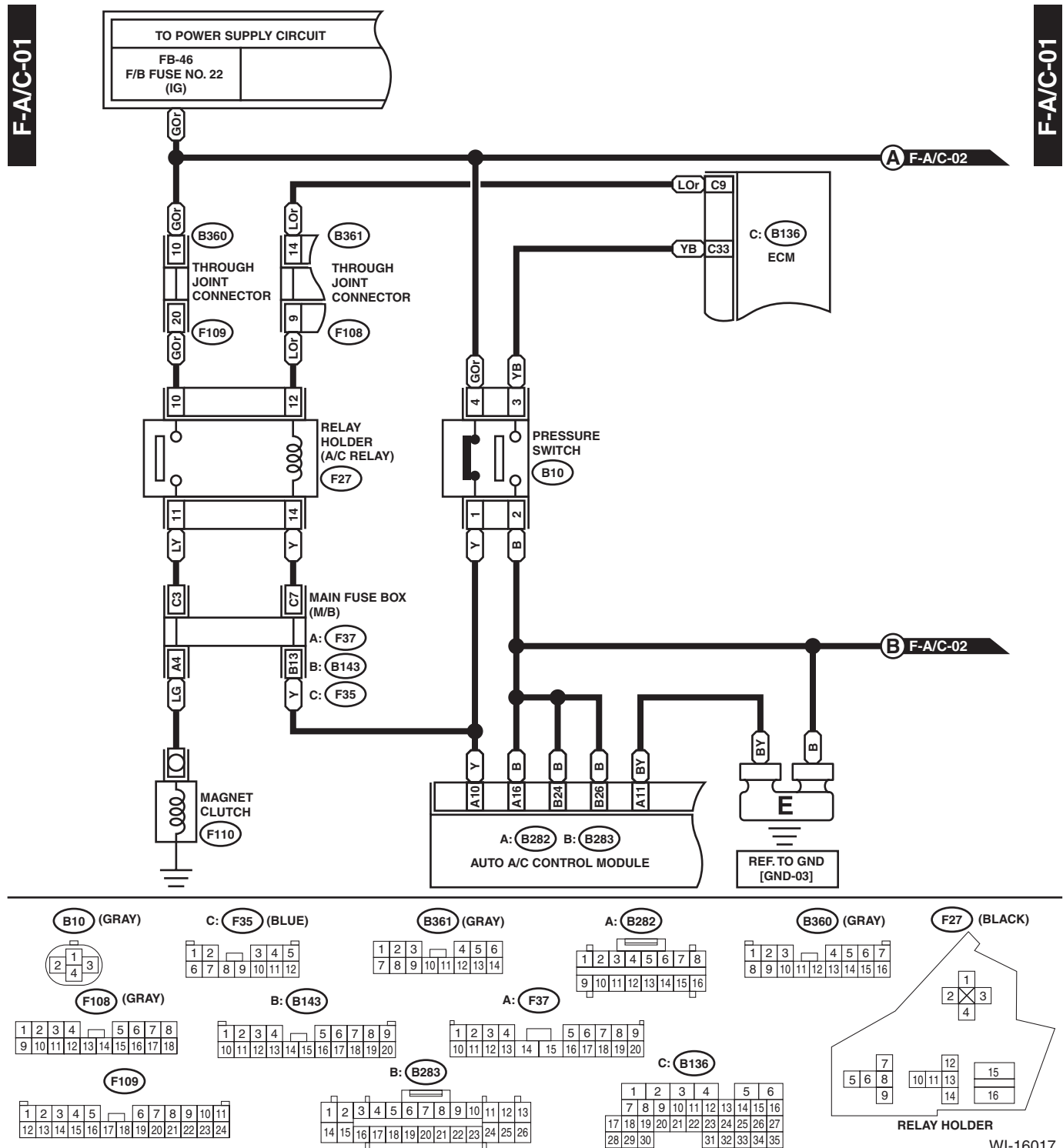




11. Air Conditioning System

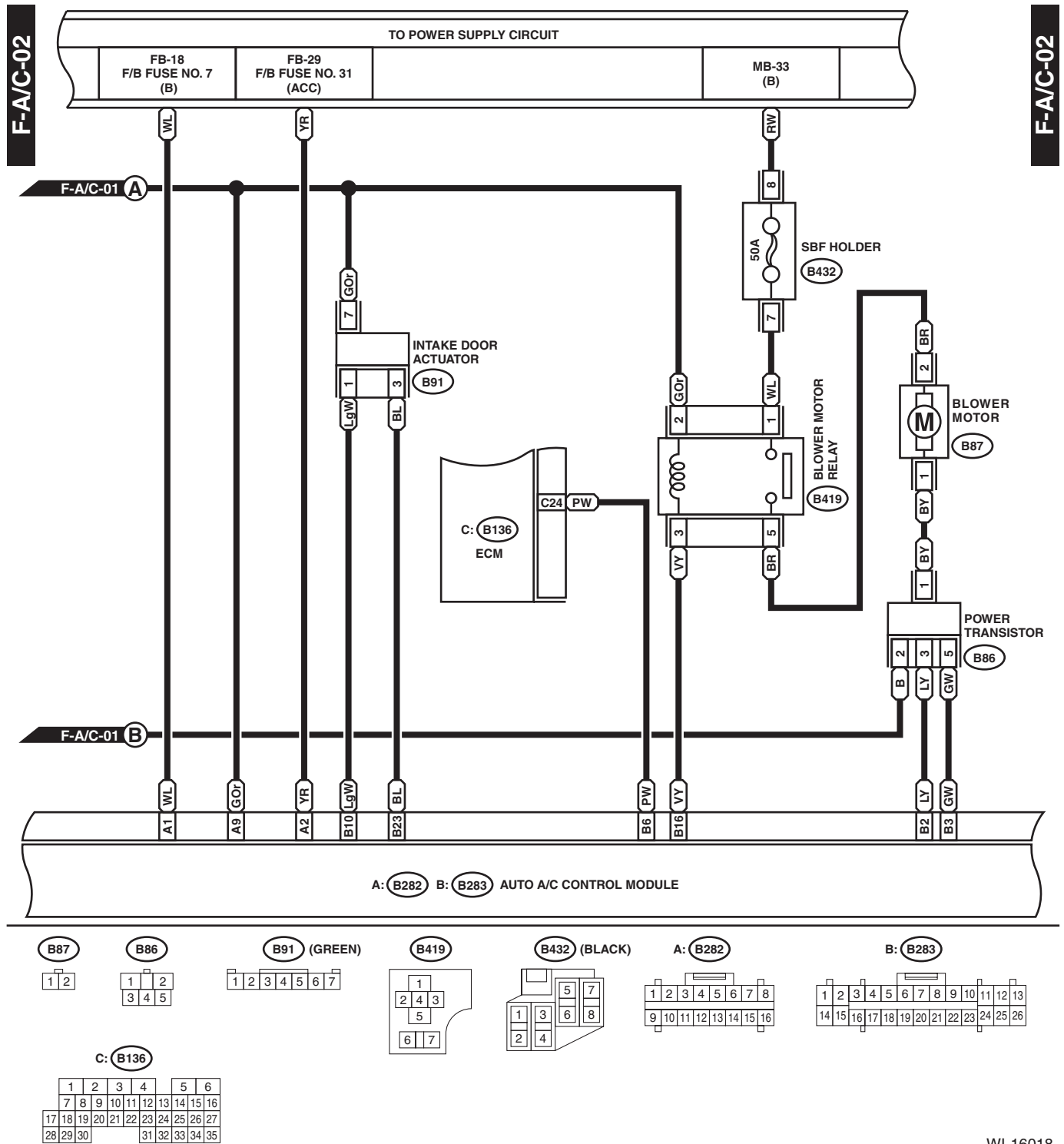
A: WIRING DIAGRAM

1. FRONT A/C



Air Conditioning System

WIRING SYSTEM



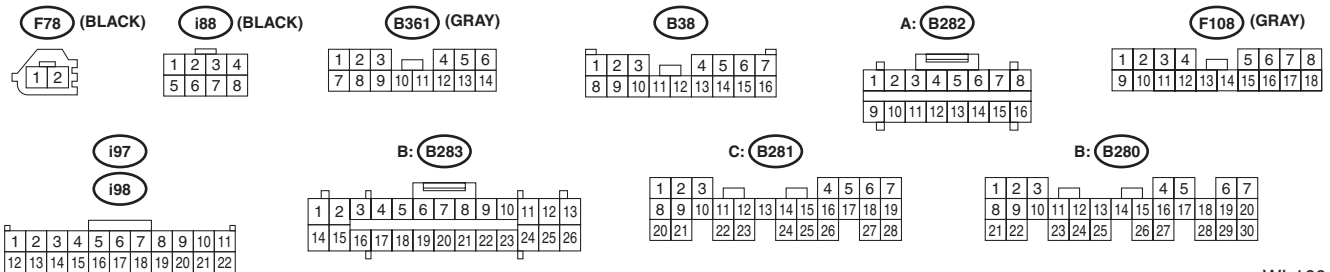
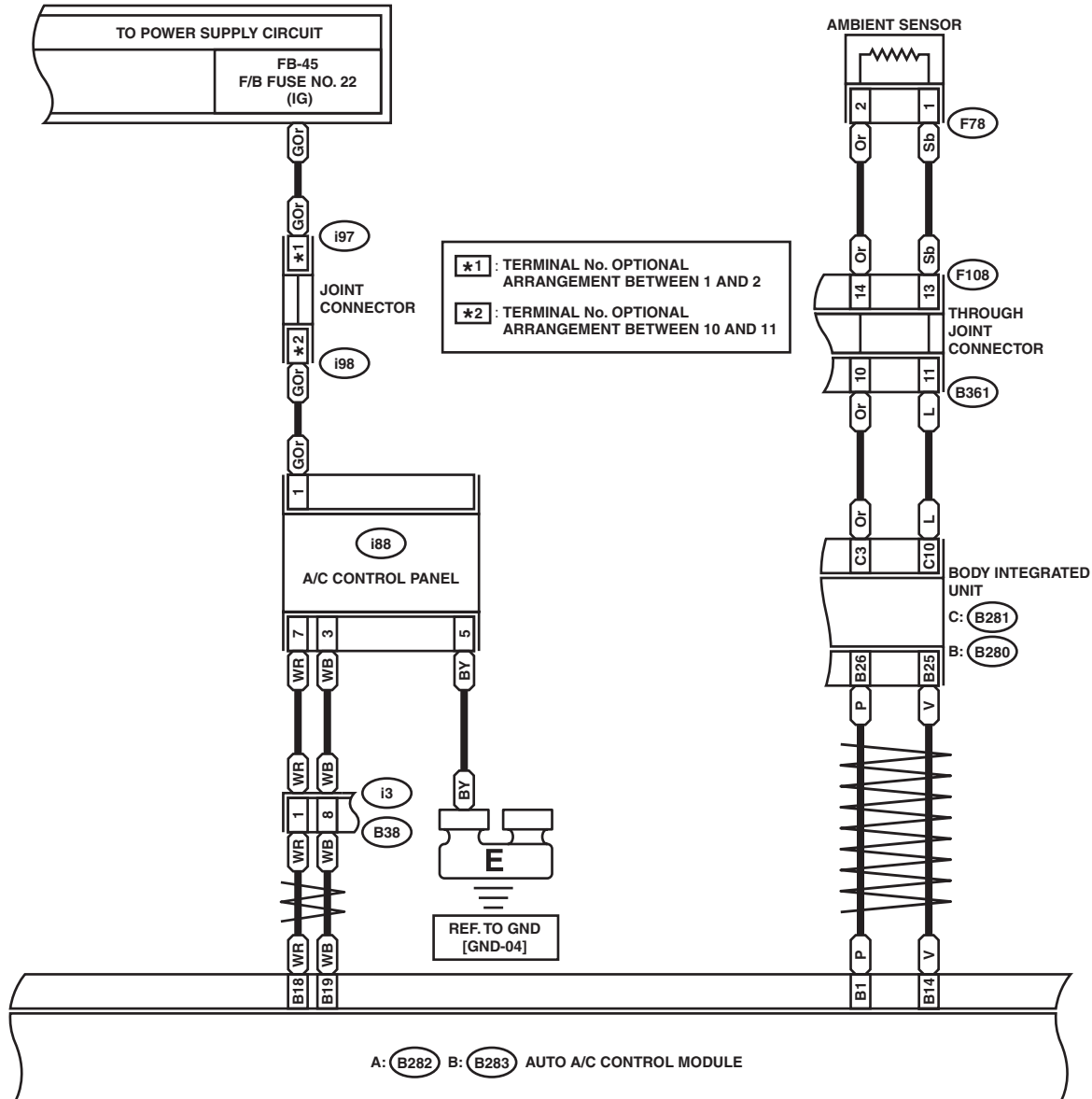
WI-16018

Air Conditioning System

WIRING SYSTEM

F-A/C-03

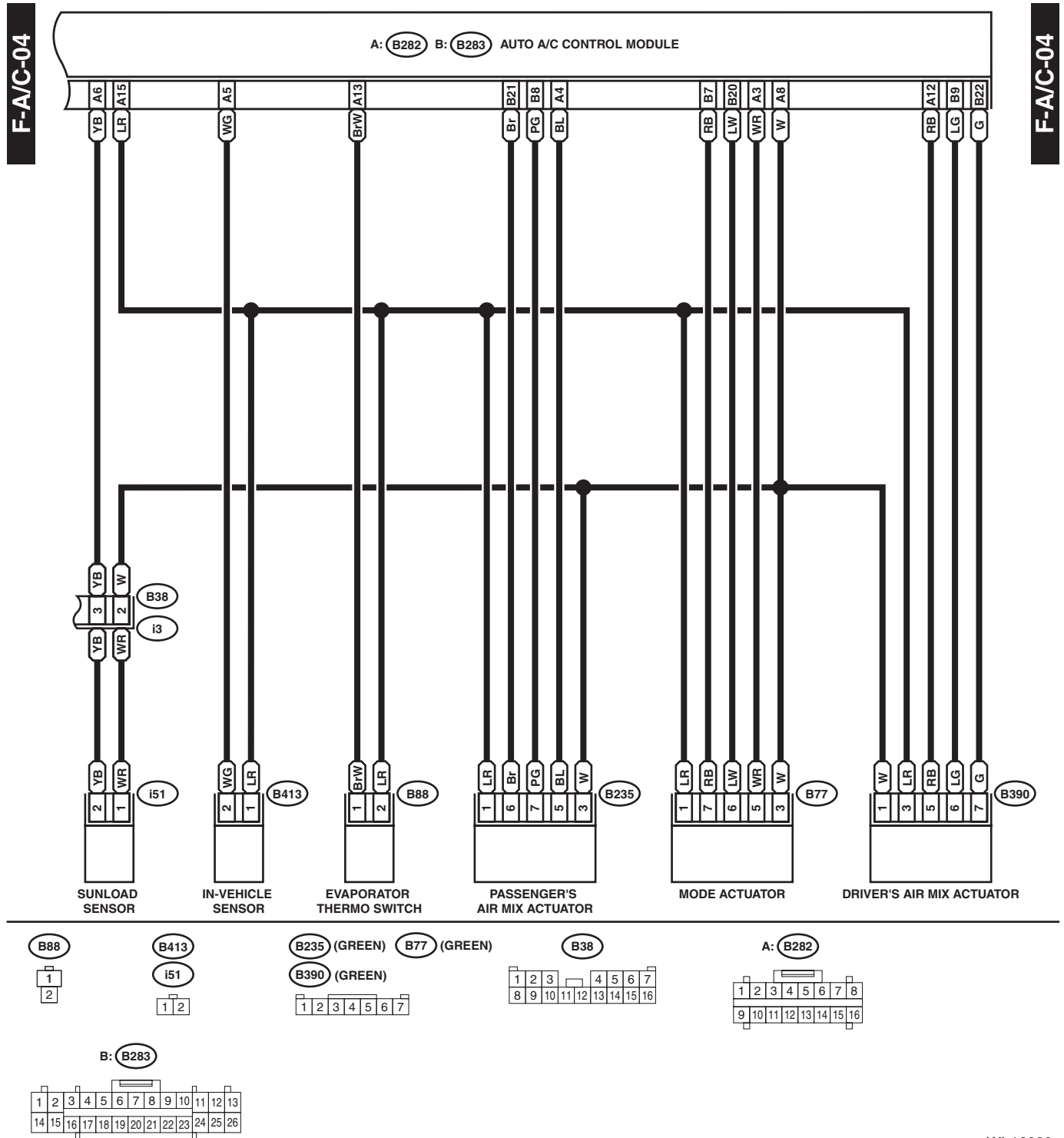
F-A/C-03



WI-16019

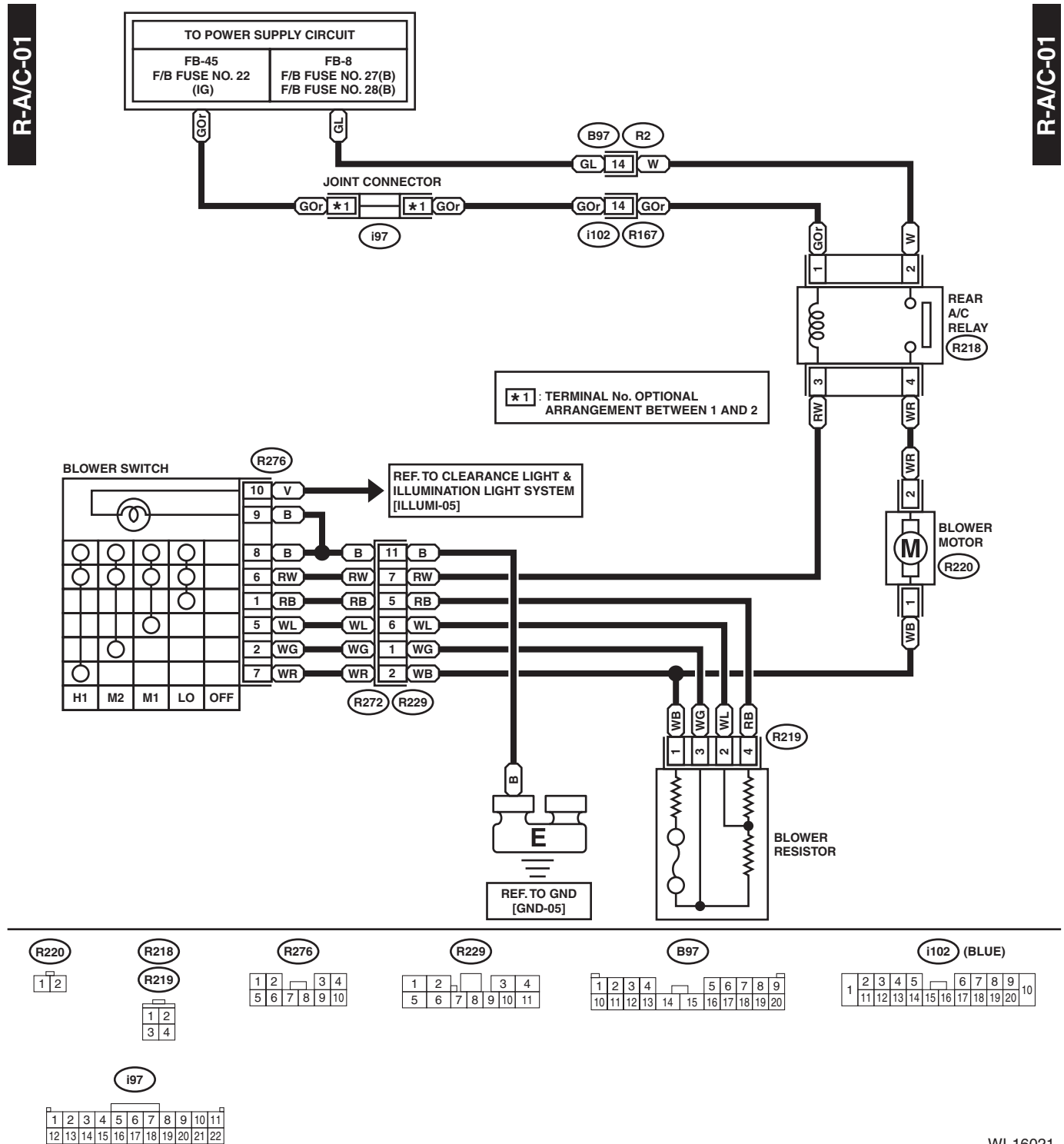
Air Conditioning System

WIRING SYSTEM



WI-16020

2. REAR A/C



WI-16021

Airbag System

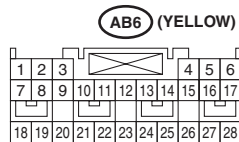
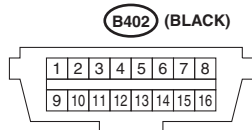
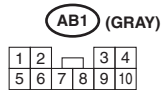
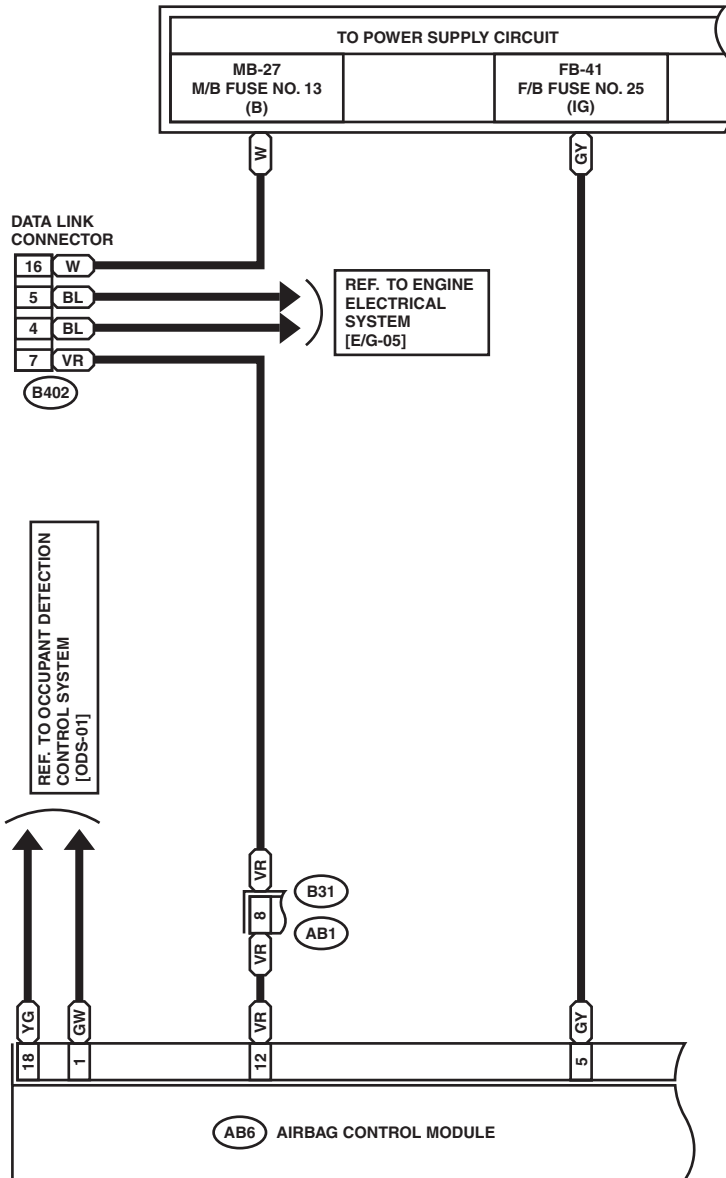
WIRING SYSTEM

12. Airbag System

A: WIRING DIAGRAM

A/B-01

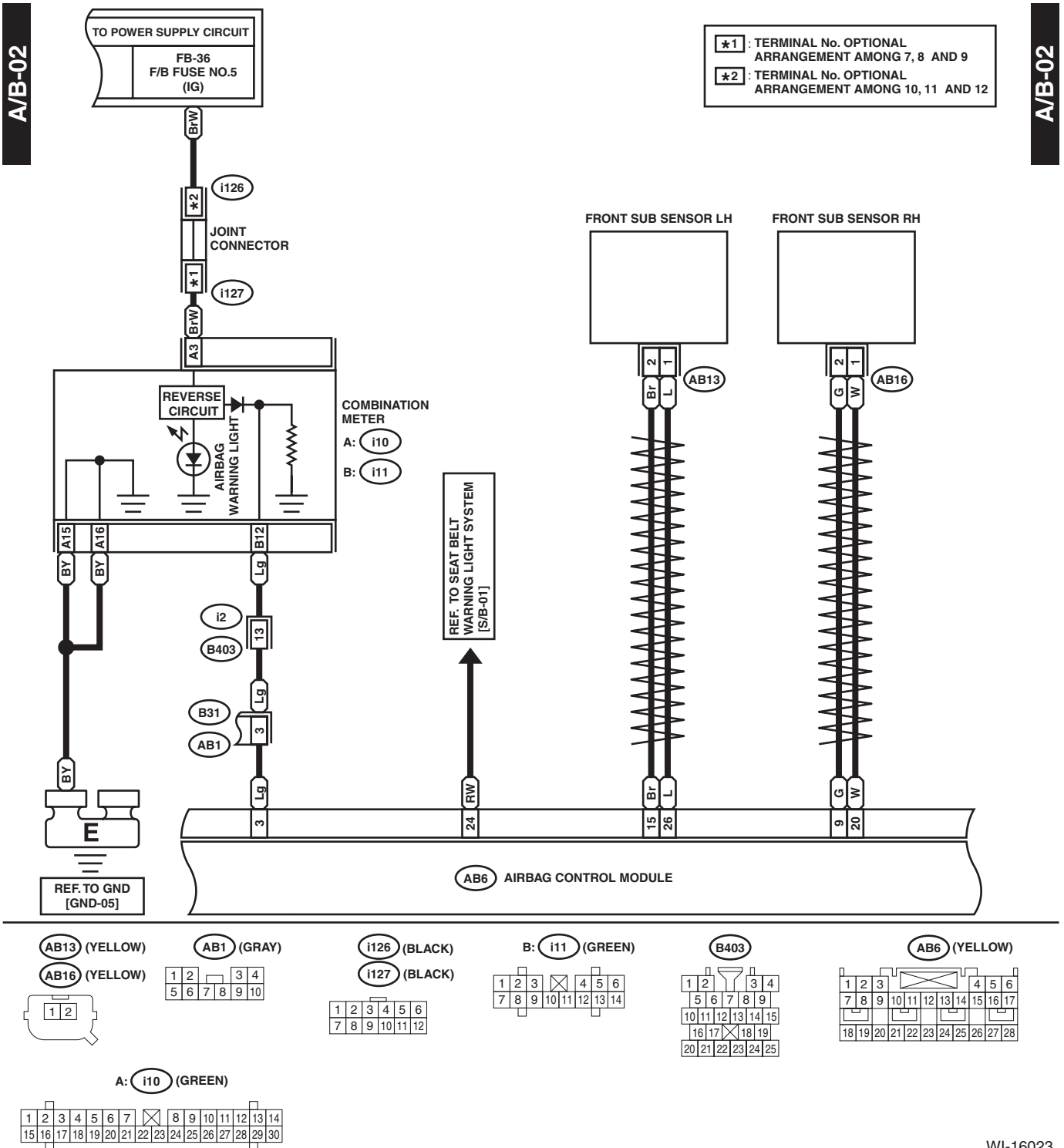
A/B-01



WI-16022

Airbag System

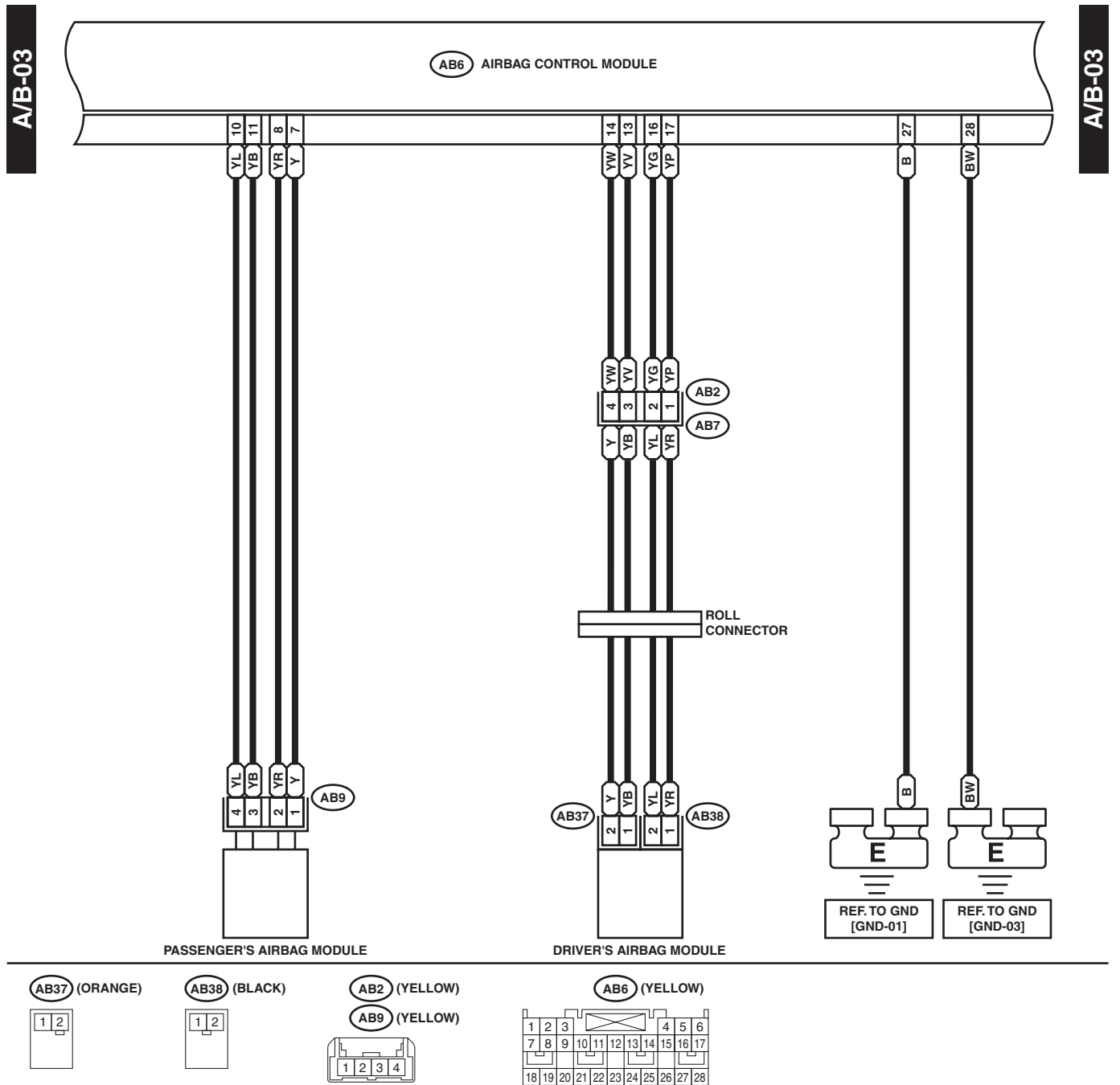
WIRING SYSTEM



WI-16023

Airbag System

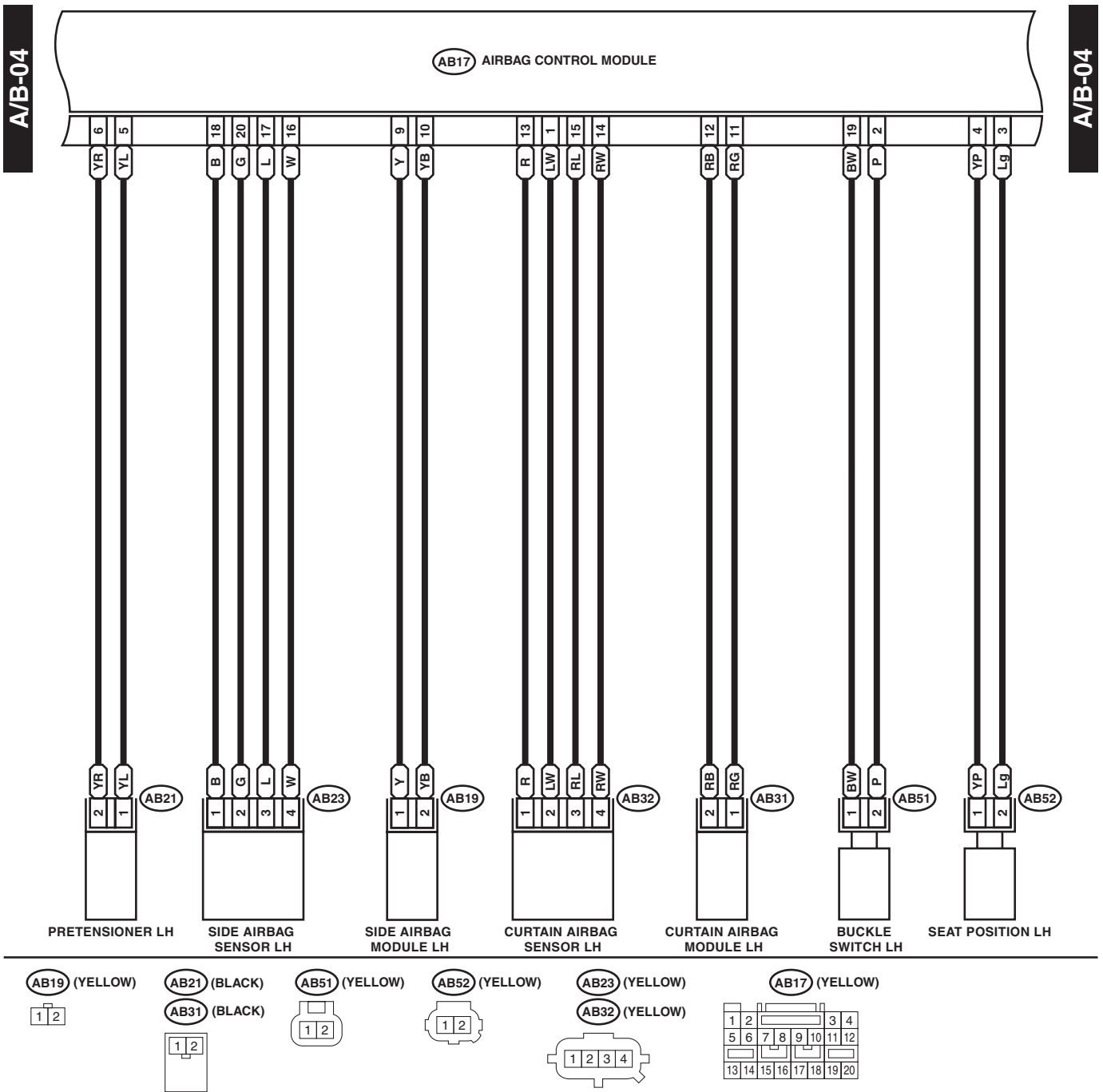
WIRING SYSTEM



WI-16024

Airbag System

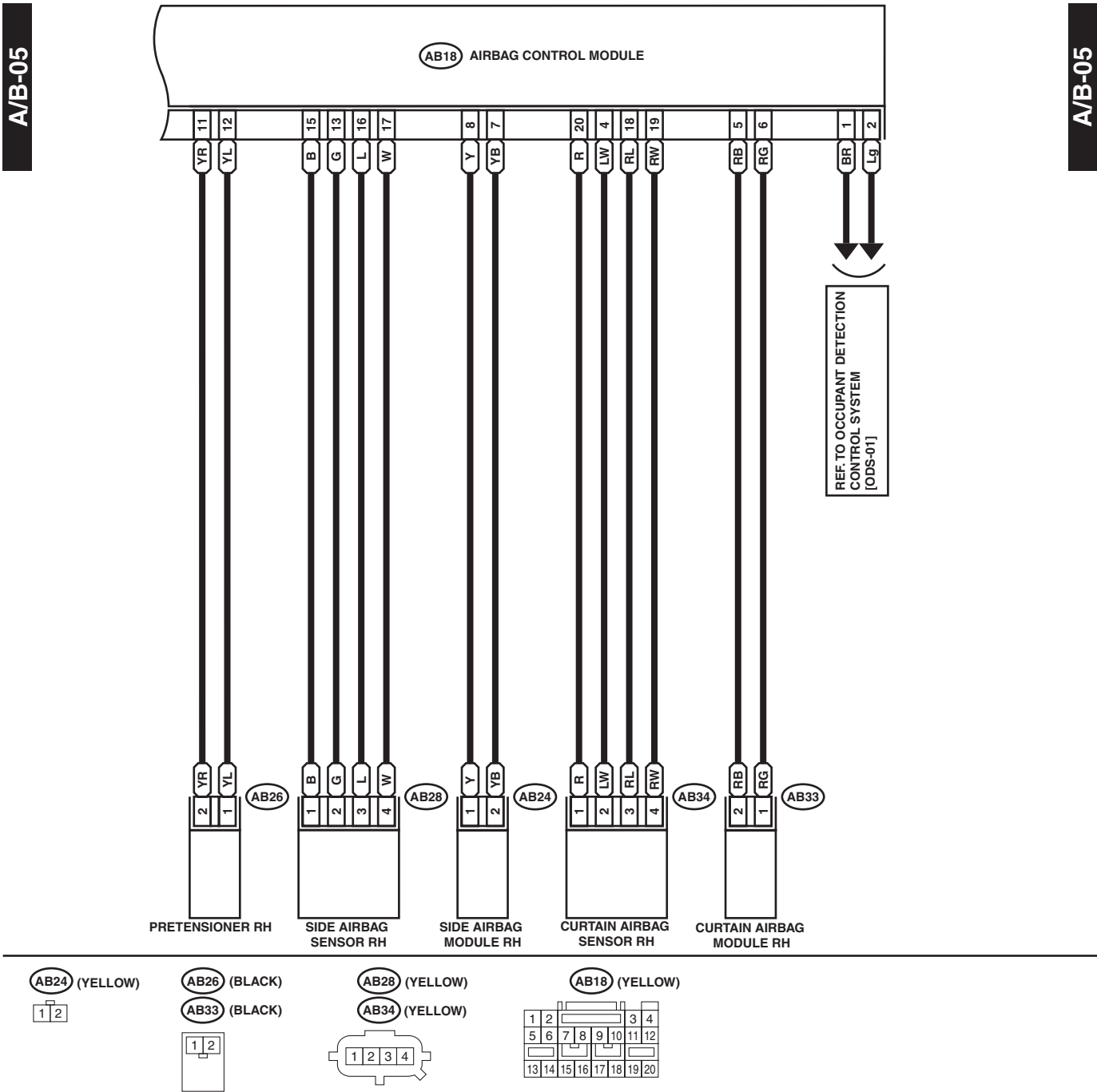
WIRING SYSTEM



WI-16025

Airbag System

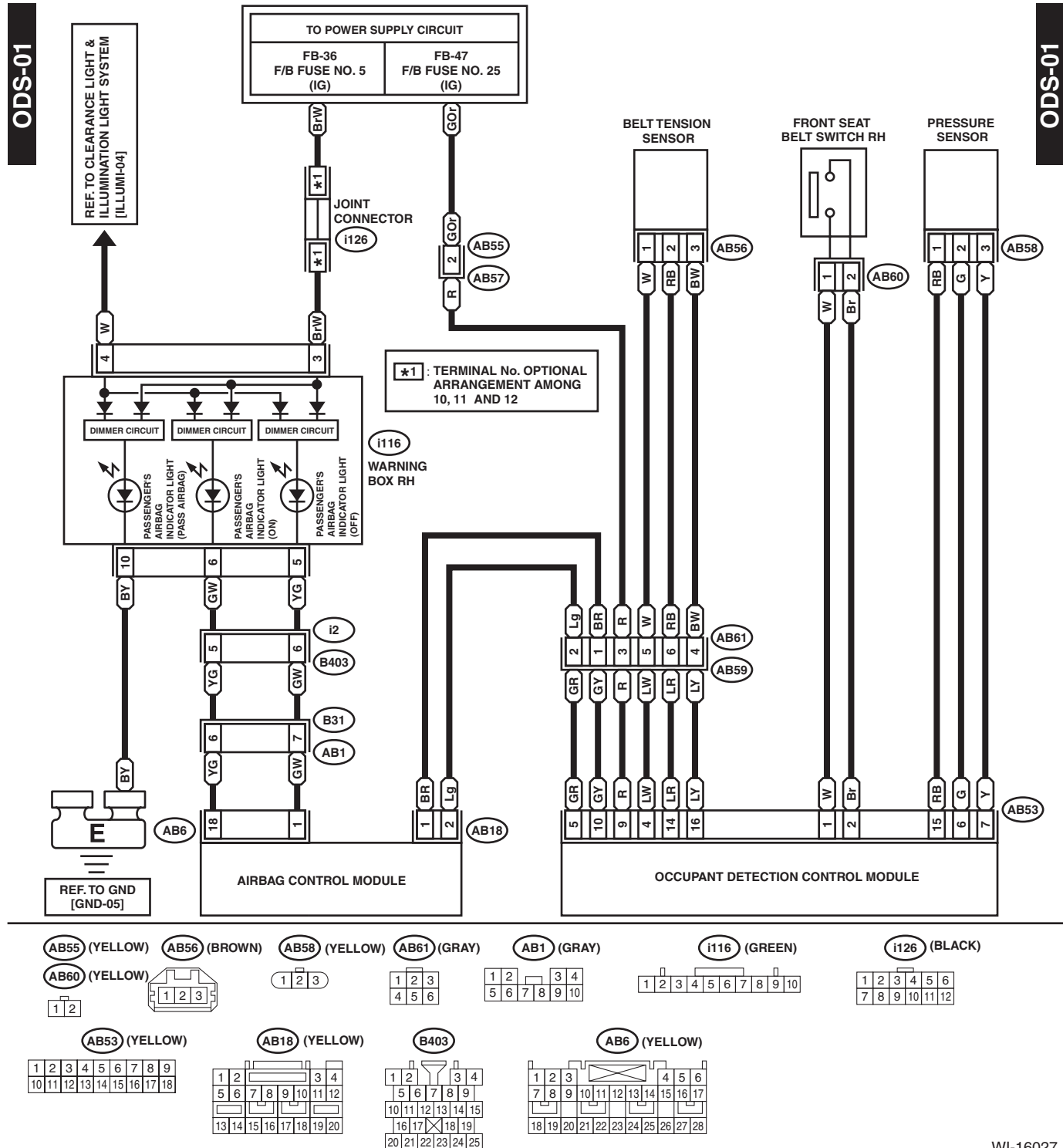
WIRING SYSTEM



WI-16026

13. Occupant Detection System

A: WIRING DIAGRAM



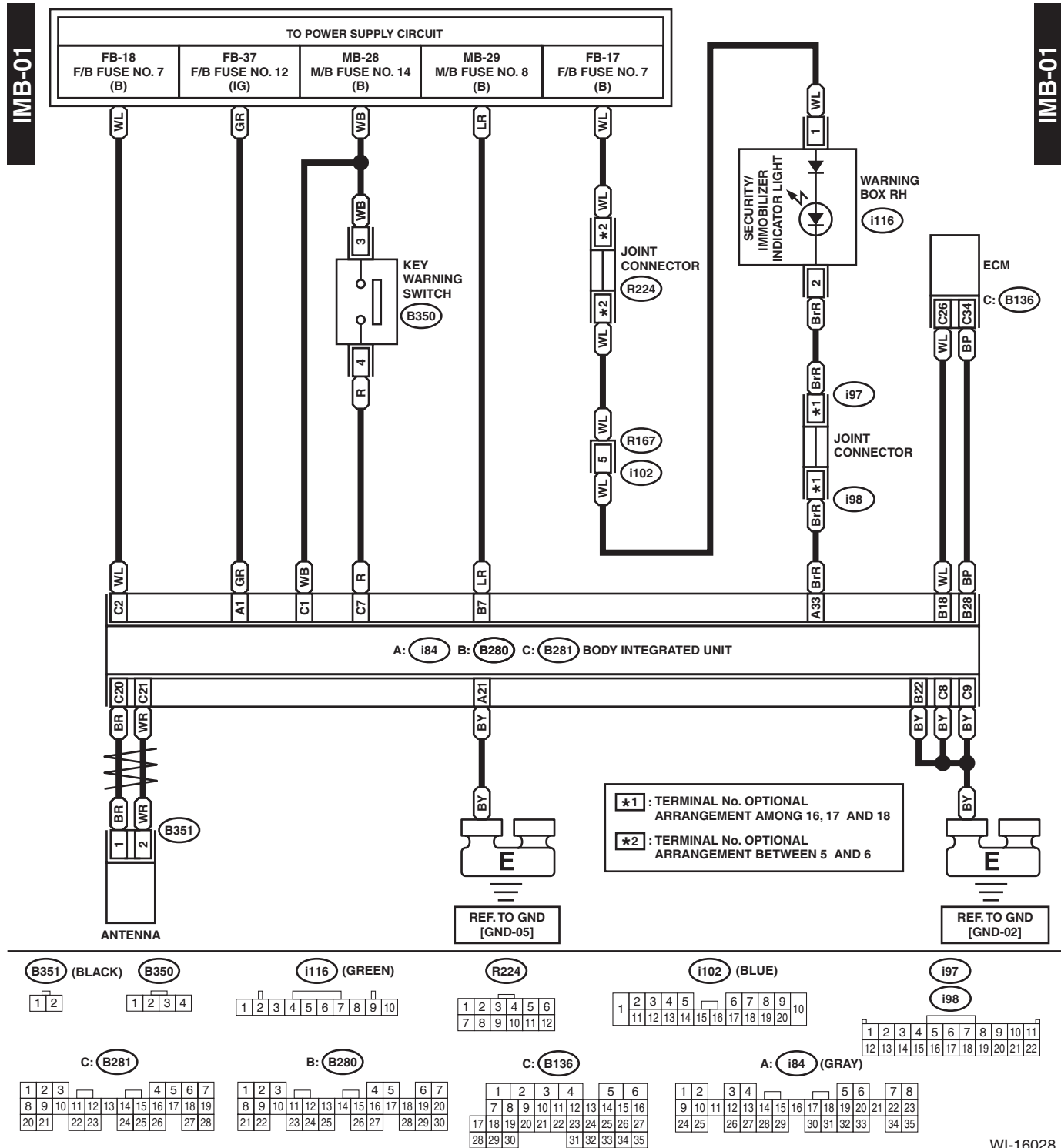
WI-16027

Immobilizer System

WIRING SYSTEM

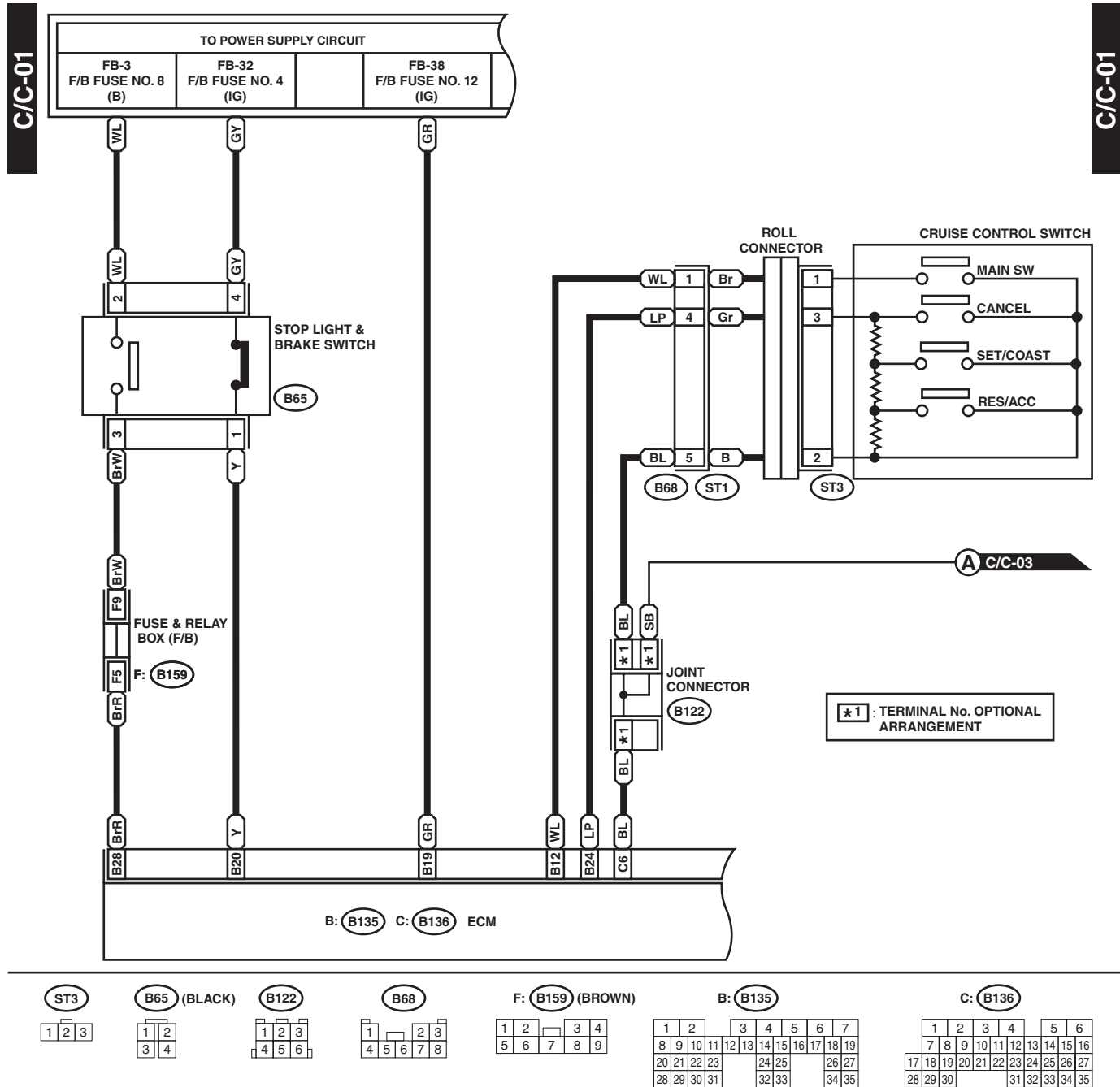
14. Immobilizer System

A: WIRING DIAGRAM



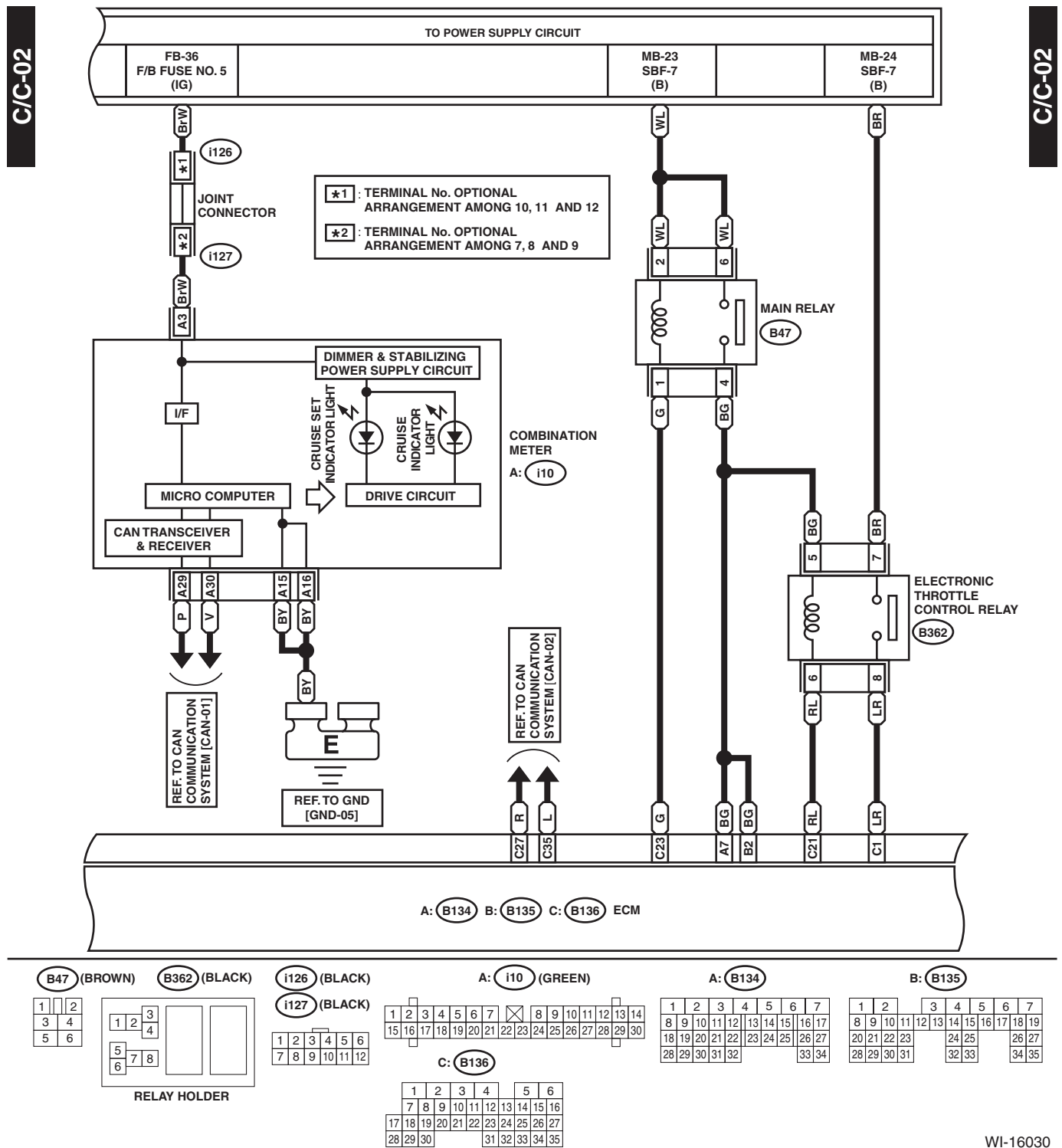
15. Cruise Control System

A: WIRING DIAGRAM



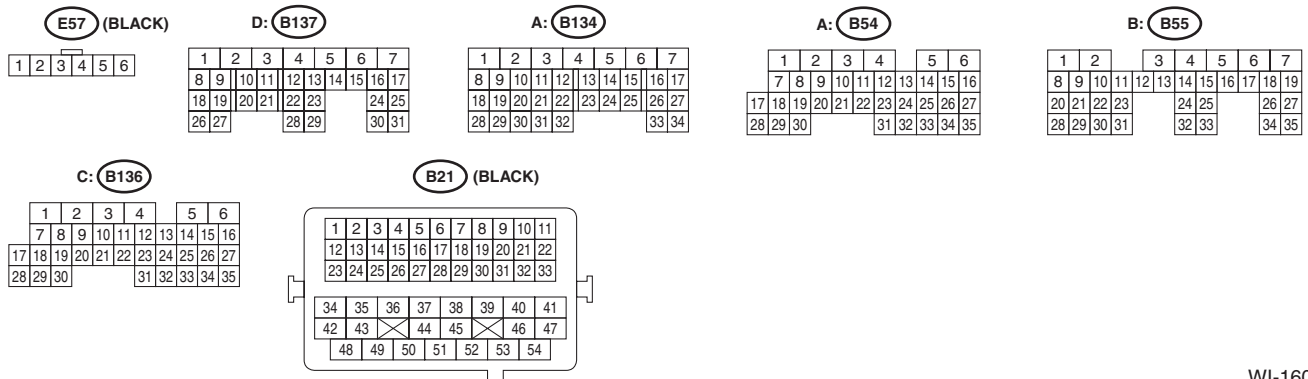
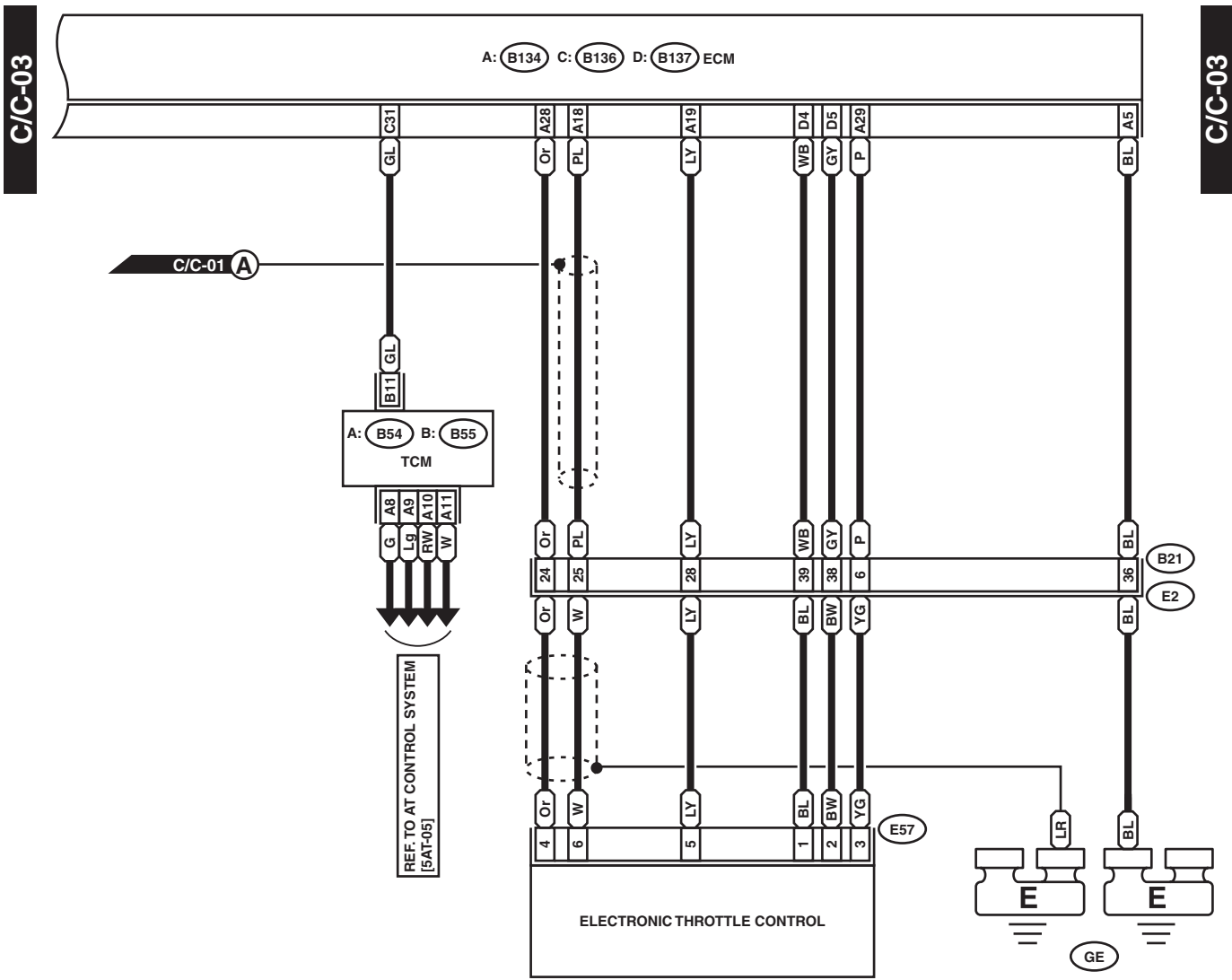
Cruise Control System

WIRING SYSTEM



Cruise Control System

WIRING SYSTEM



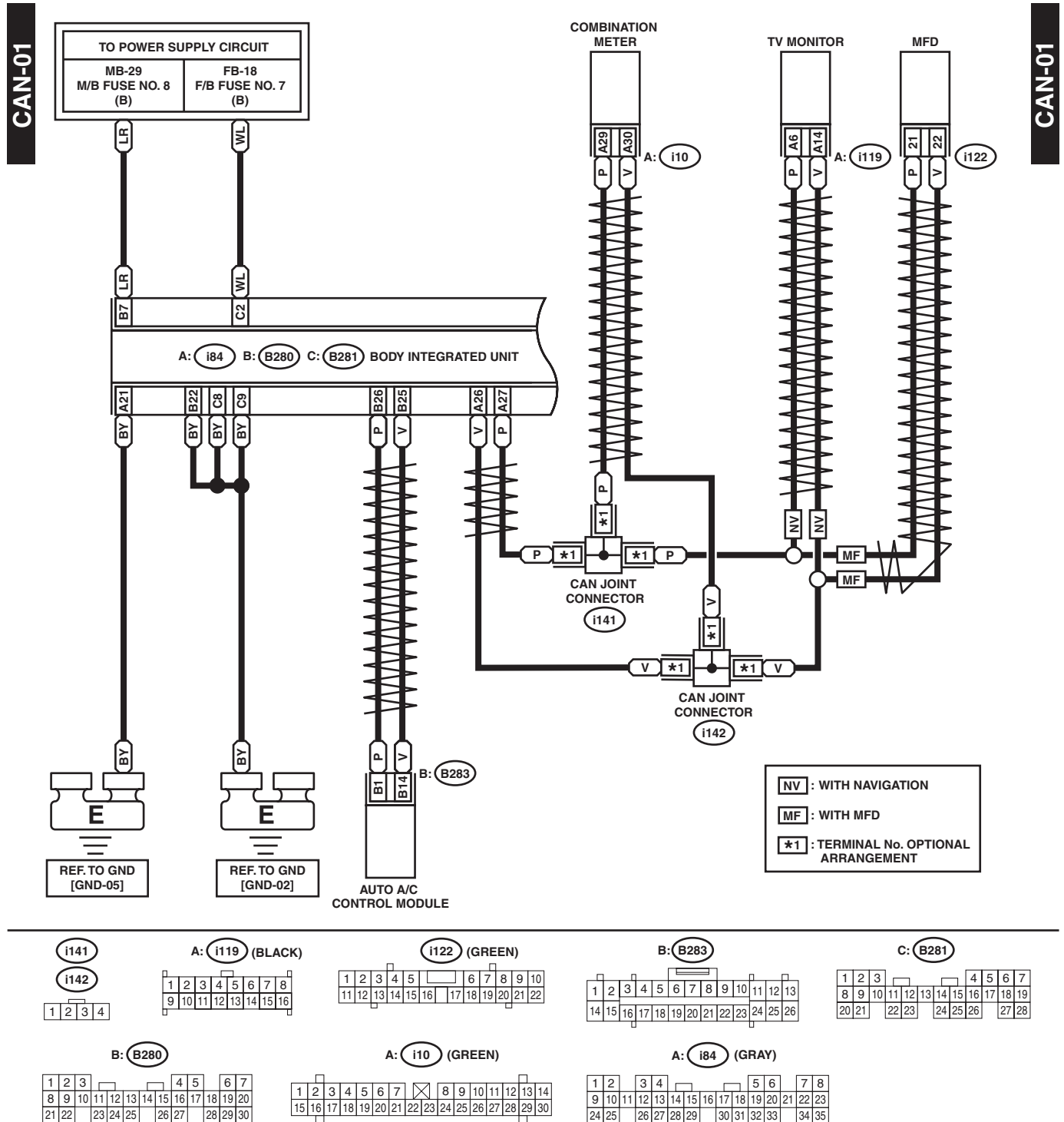
WI-16031

CAN Communication System

WIRING SYSTEM

16.CAN Communication System

A: WIRING DIAGRAM



WI-16032

CAN-02

CAN-02

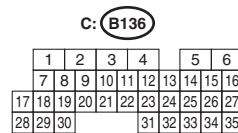
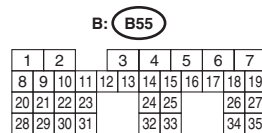
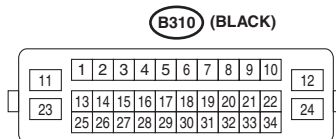
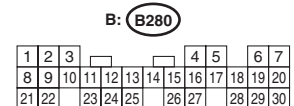
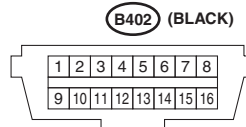
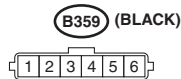
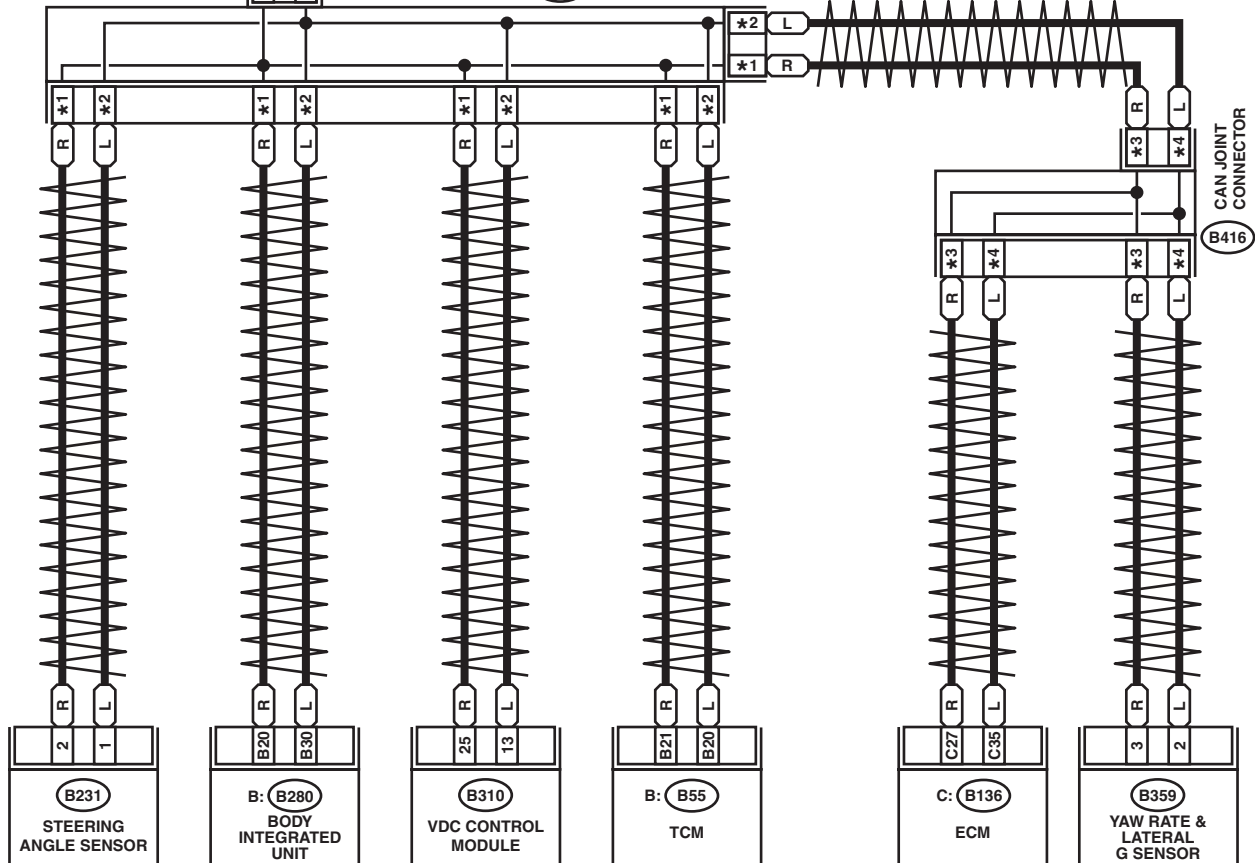
DATA LINK CONNECTOR



(B402)

CAN JOINT CONNECTOR (B331)

- ★1 : TERMINAL No. OPTIONAL ARRANGEMENT AMONG 1, 2, 3, 11, 12 AND 13
- ★2 : TERMINAL No. OPTIONAL ARRANGEMENT AMONG 8, 9, 10, 18, 19 AND 20
- ★3 : TERMINAL No. OPTIONAL ARRANGEMENT AMONG 1, 2, 5 AND 6
- ★4 : TERMINAL No. OPTIONAL ARRANGEMENT AMONG 3, 4, 7 AND 8

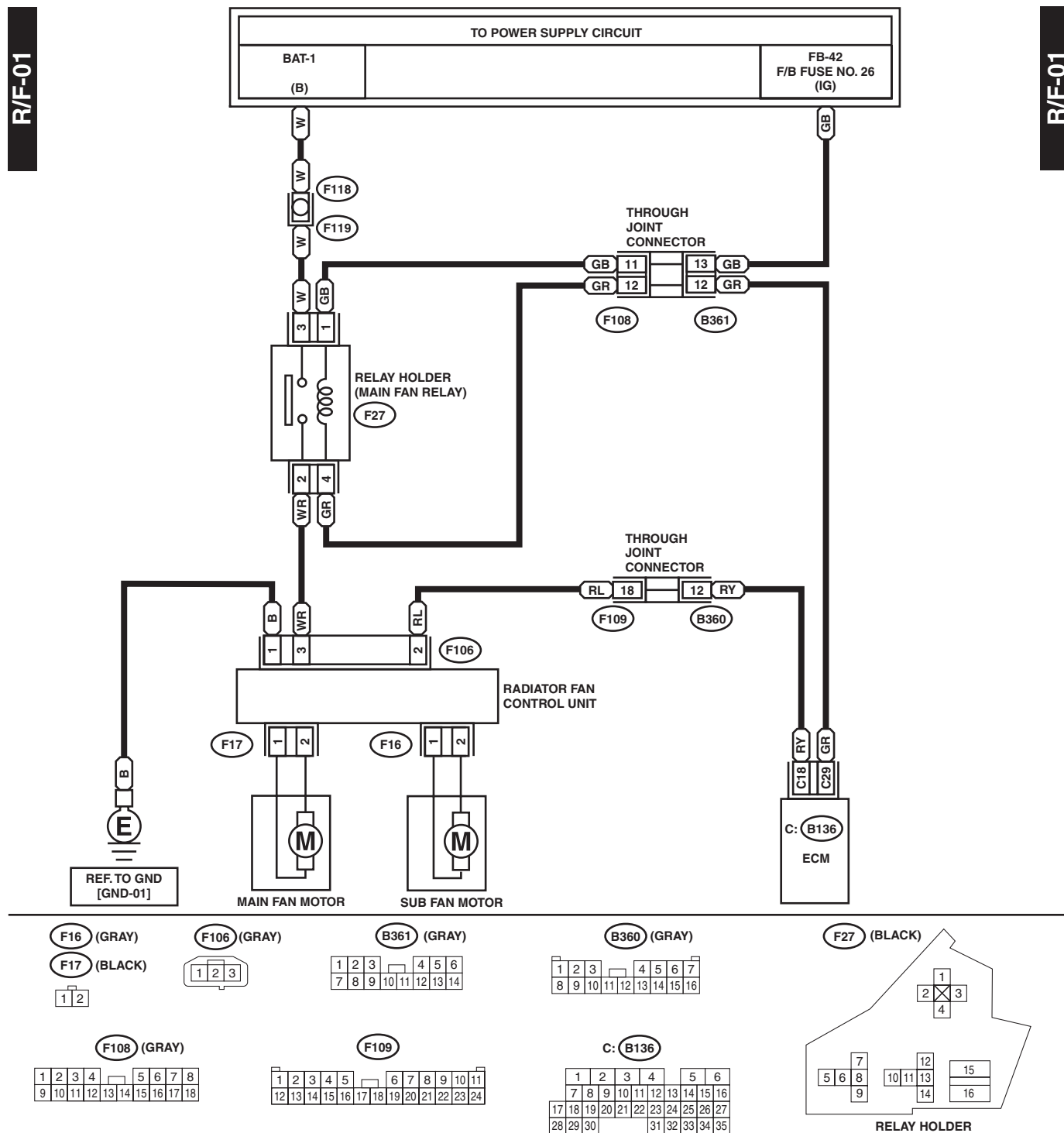


WI-19713

WIRING SYSTEM

17. Radiator Fan System

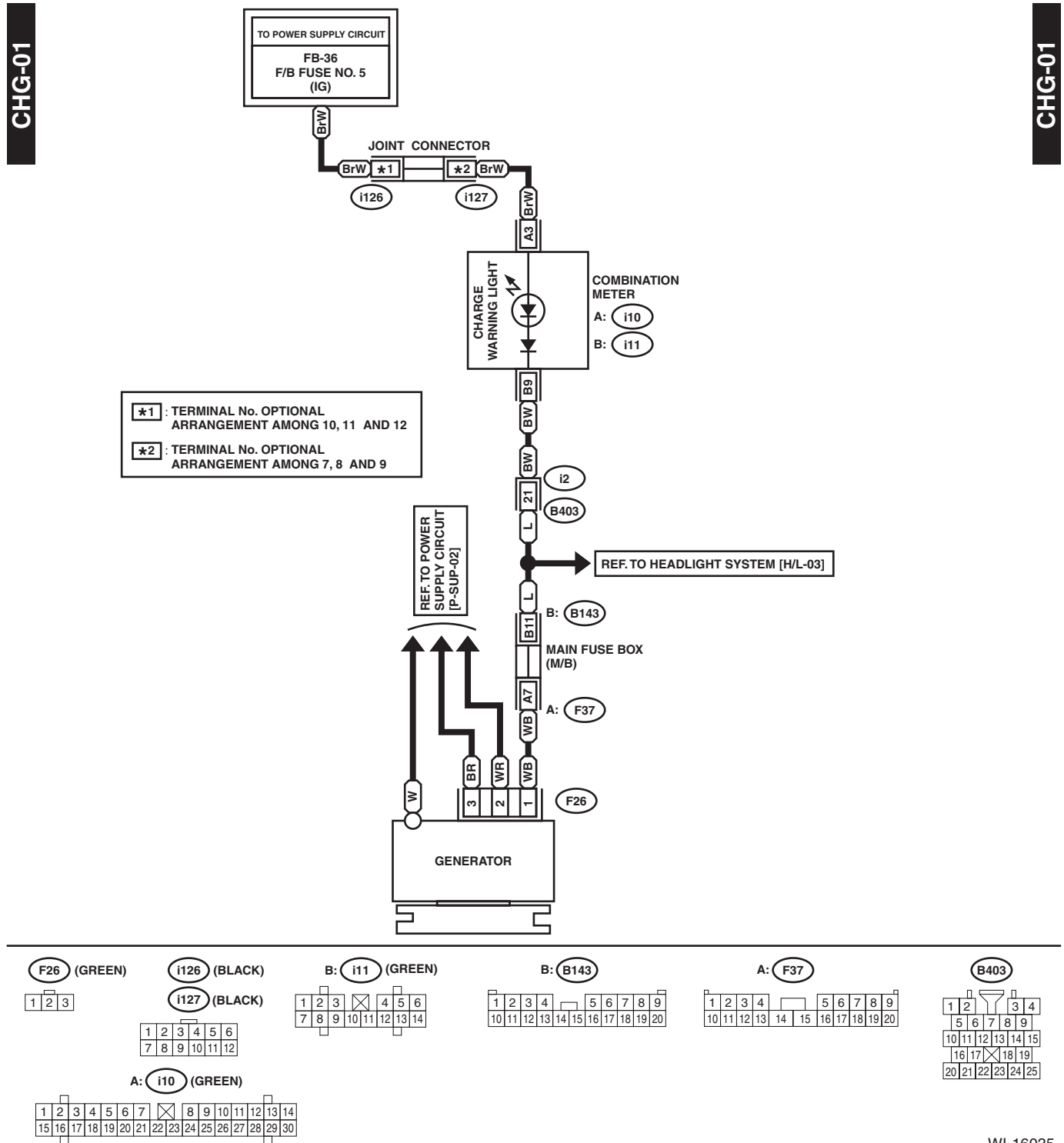
A: WIRING DIAGRAM



WI-21497

18.Charging System

A: WIRING DIAGRAM



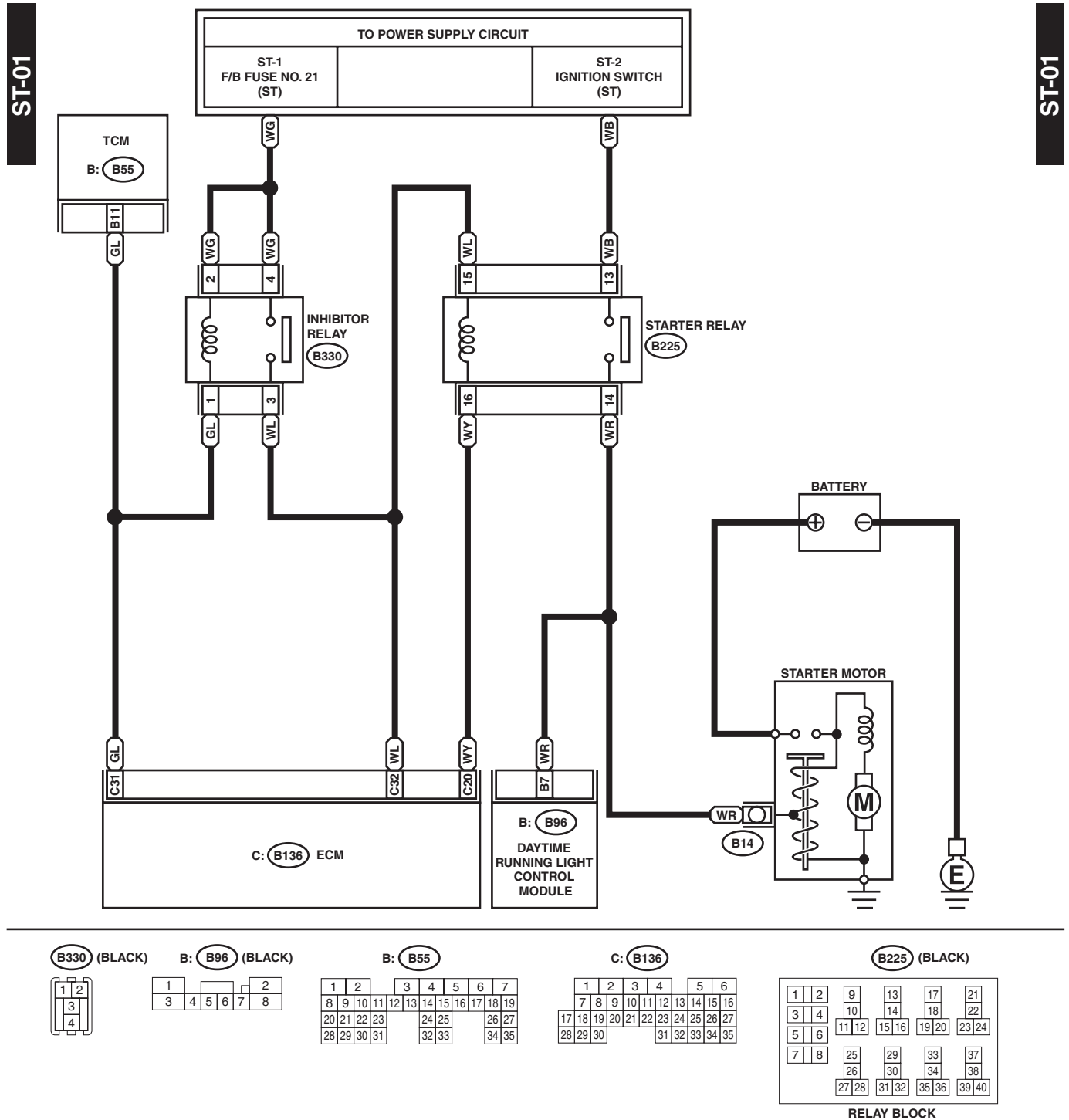
WI-16035

Starter System

WIRING SYSTEM

19.Starter System

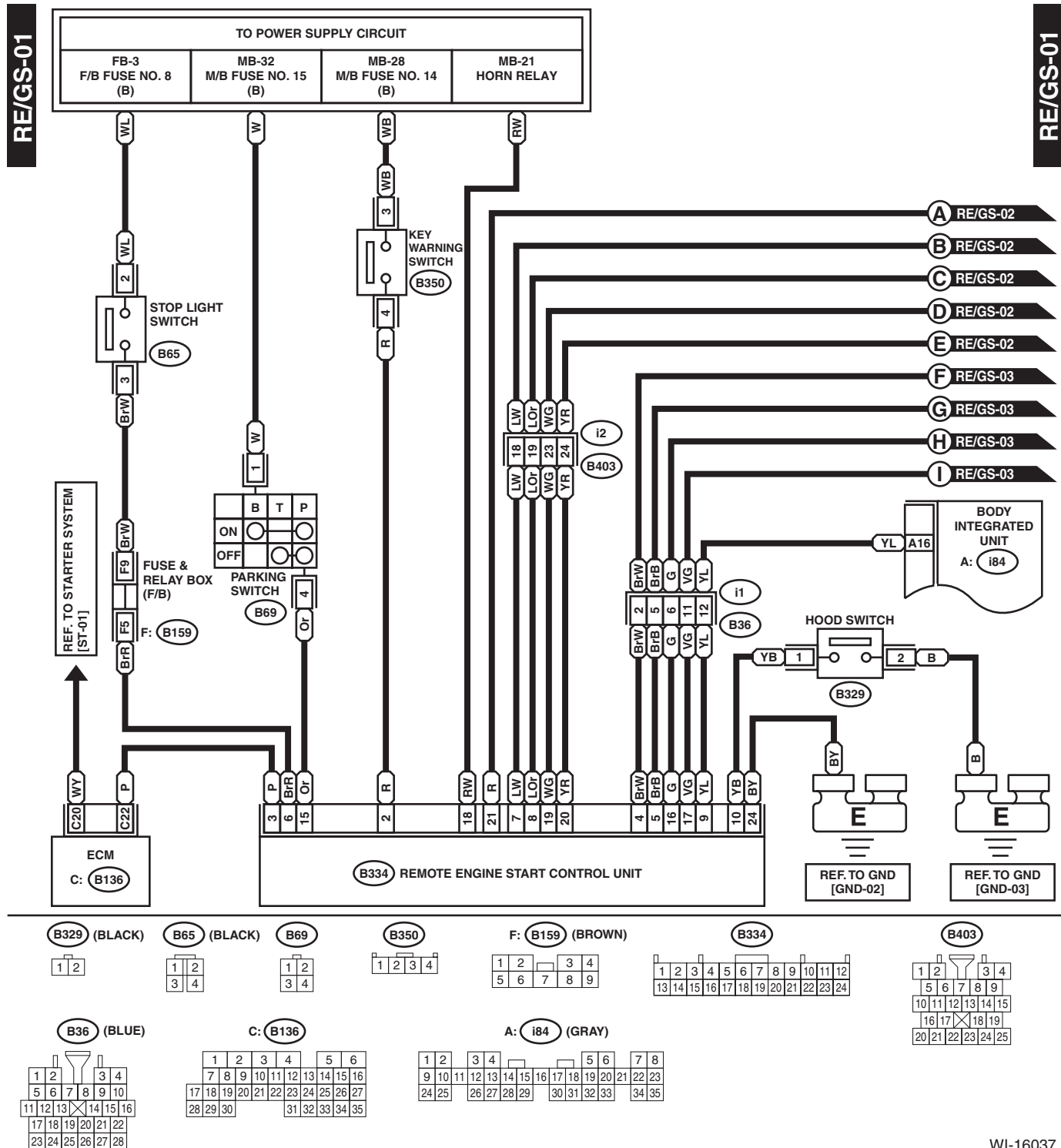
A: WIRING DIAGRAM



WI-16036

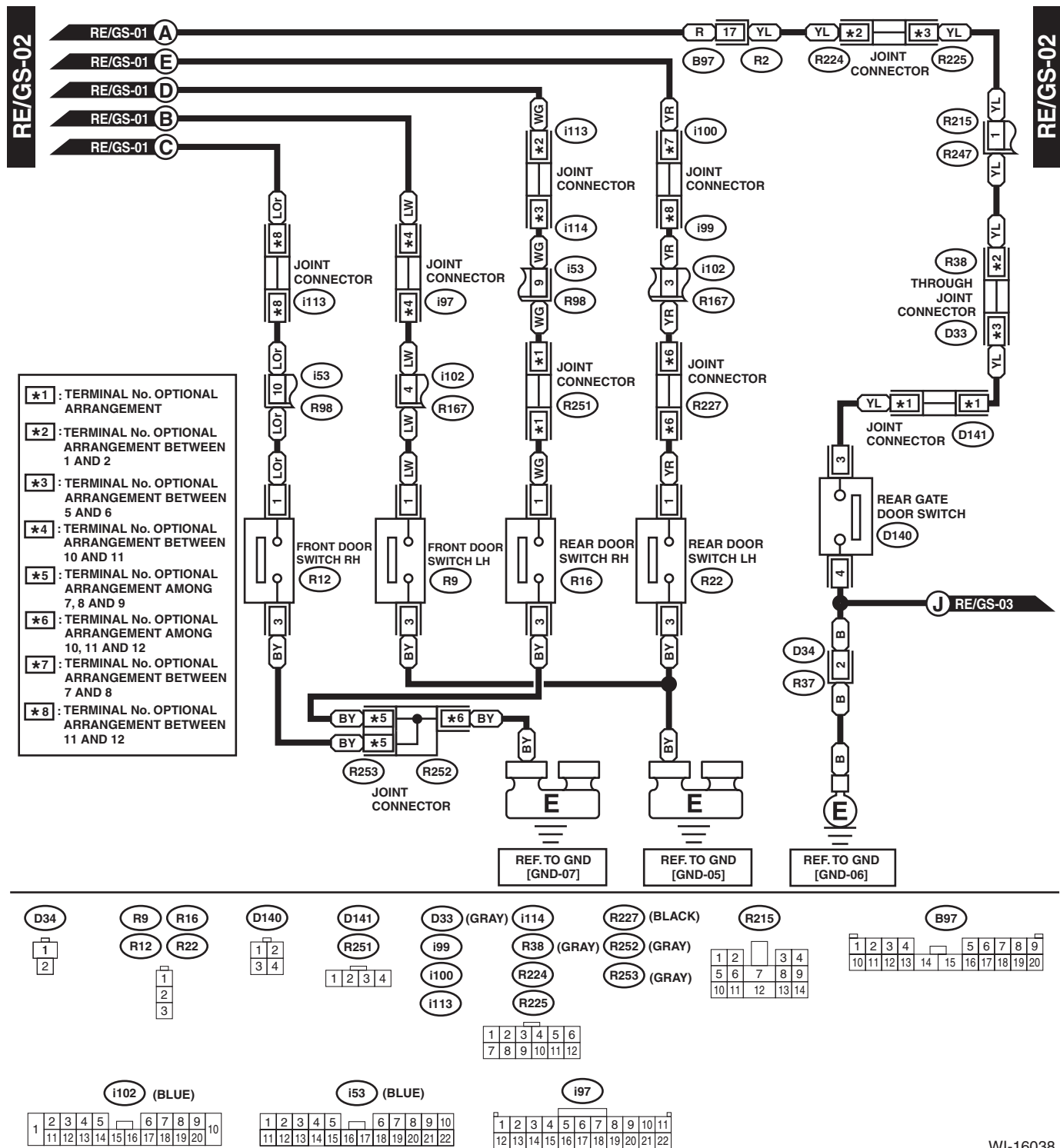
20.Remote Engine Start System

A: WIRING DIAGRAM



Remote Engine Start System

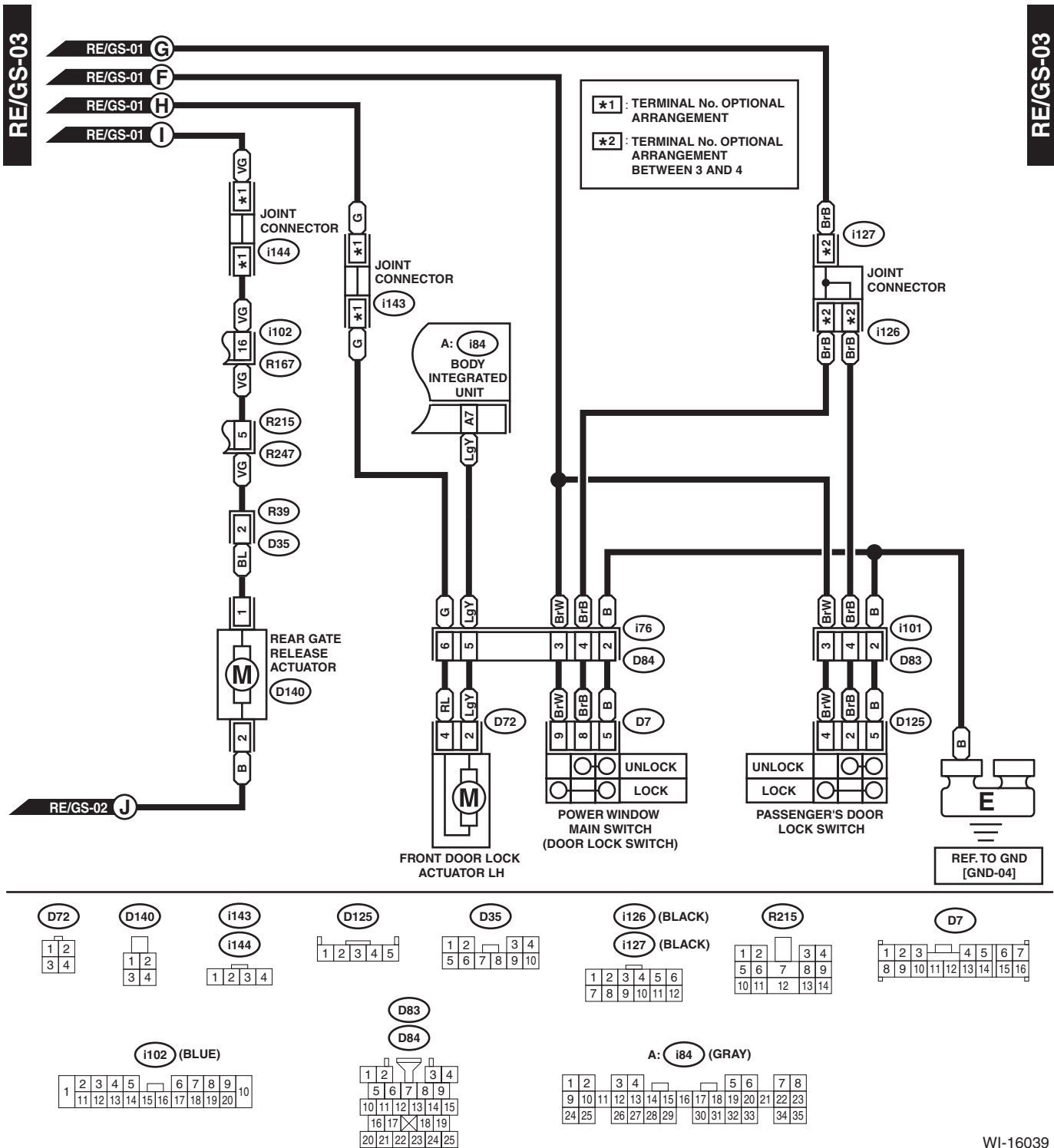
WIRING SYSTEM



WI-16038

Remote Engine Start System

WIRING SYSTEM

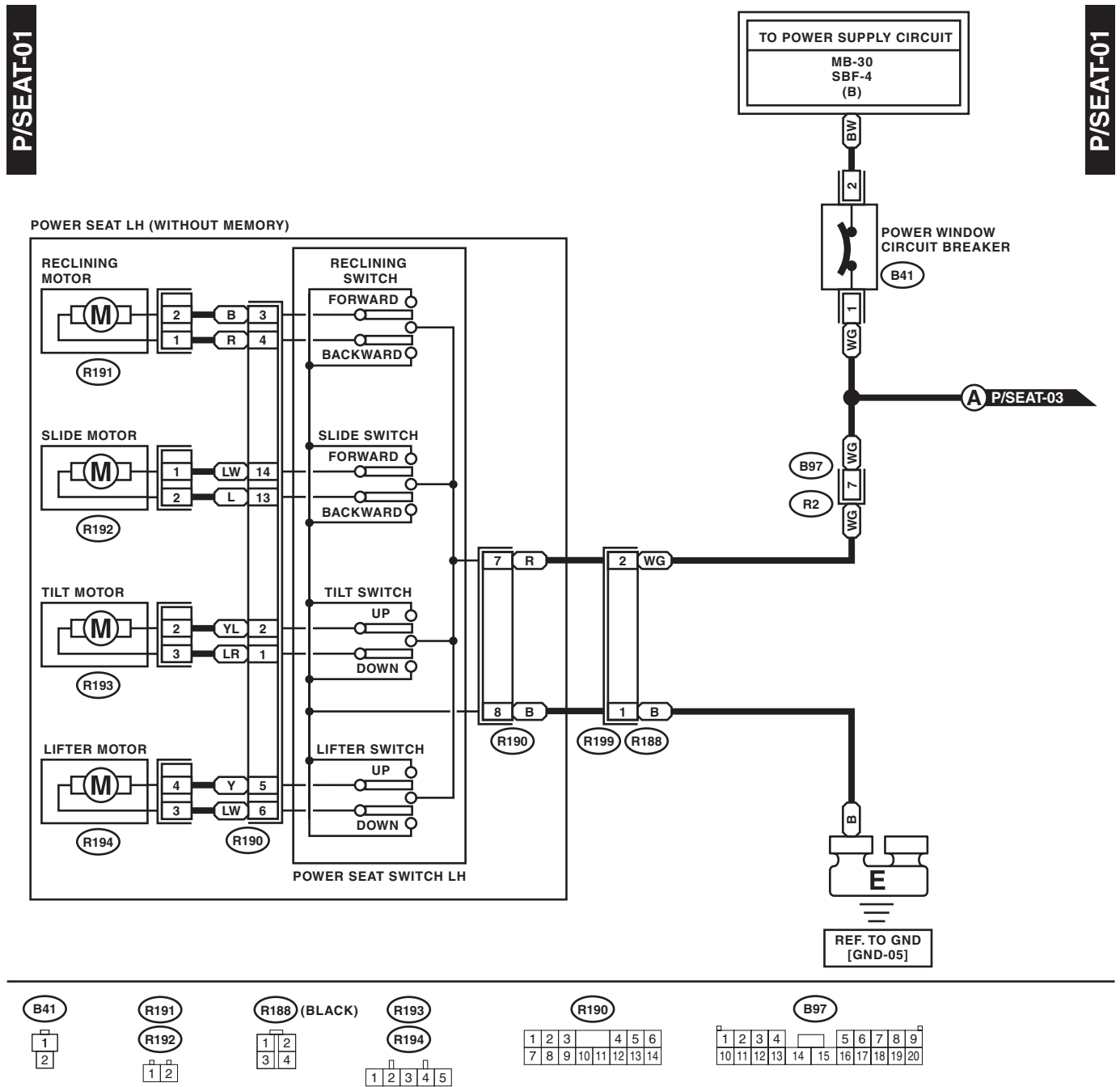


WI-16039

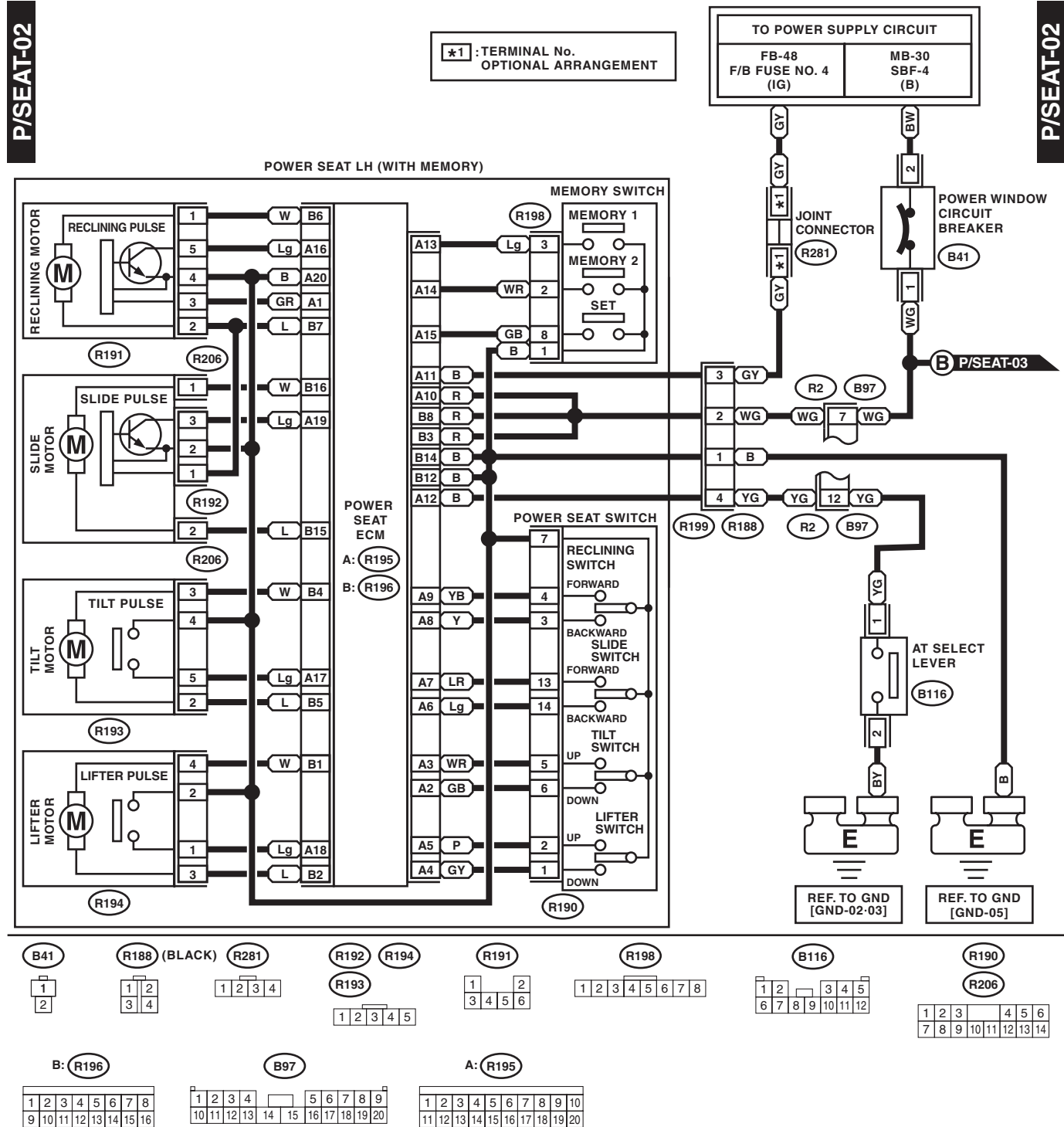
21. Power Seat System

A: WIRING DIAGRAM

1. DRIVER'S SEAT (WITHOUT MEMORY)



2. DRIVER'S SEAT (WITH MEMORY)

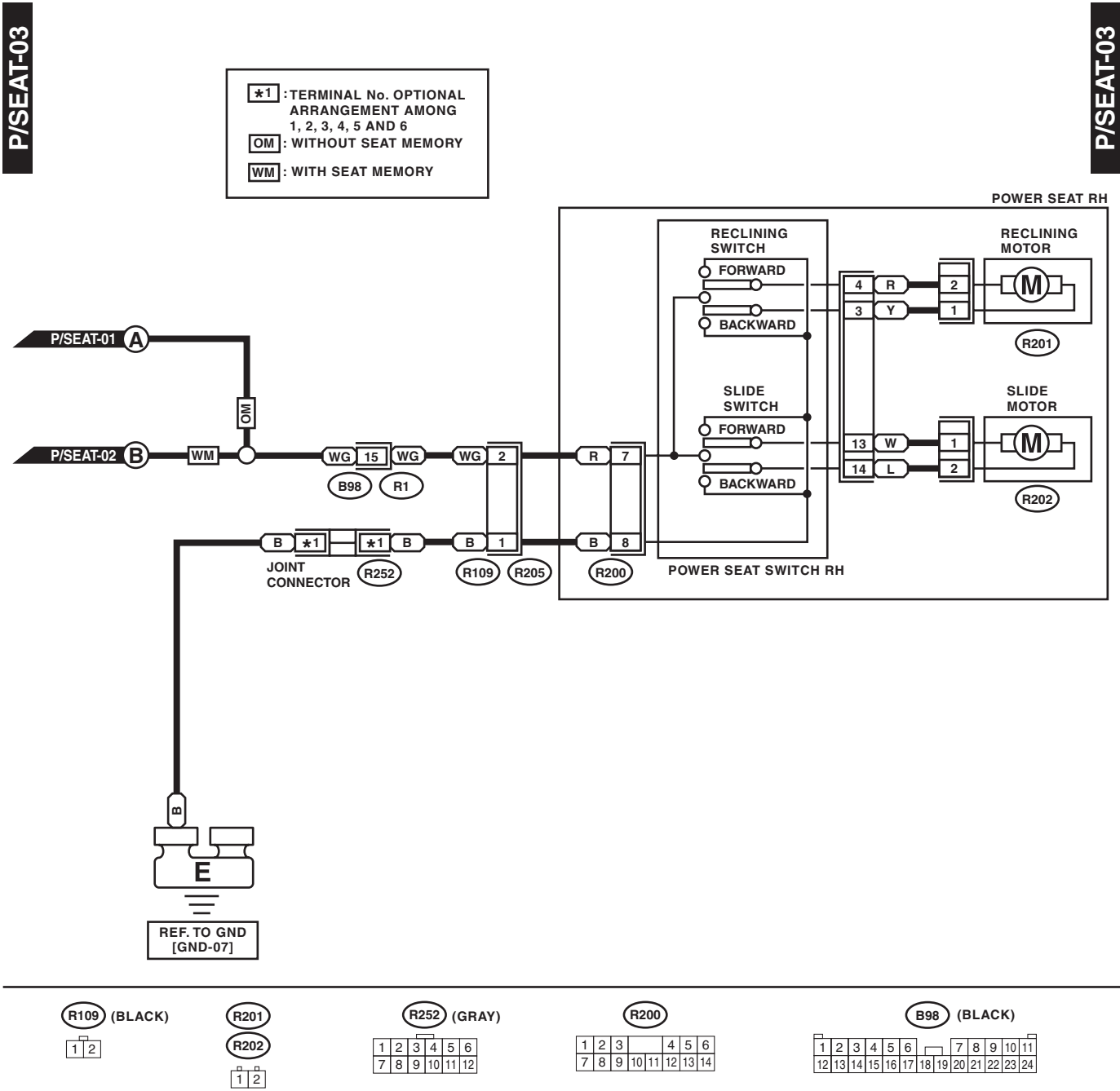


WI-16041

Power Seat System

WIRING SYSTEM

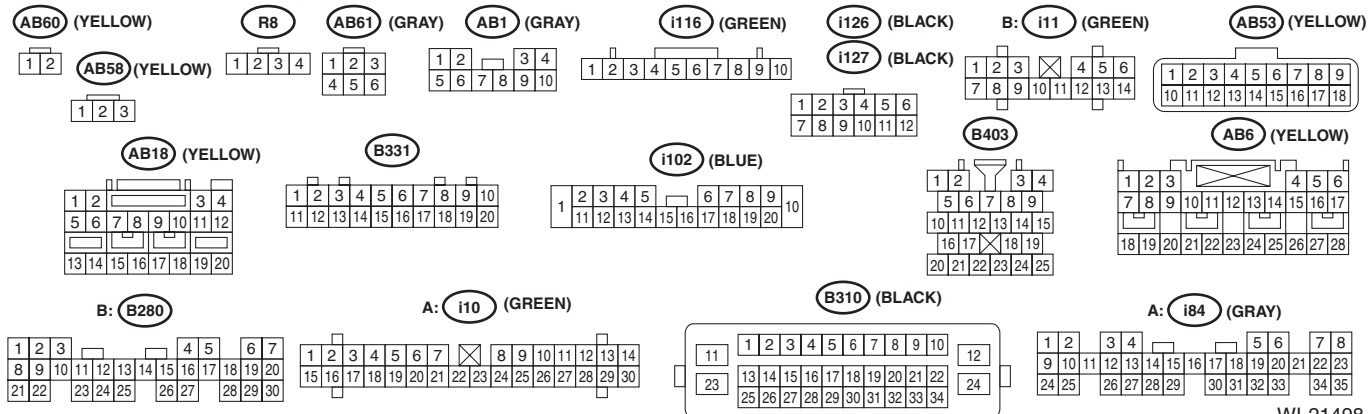
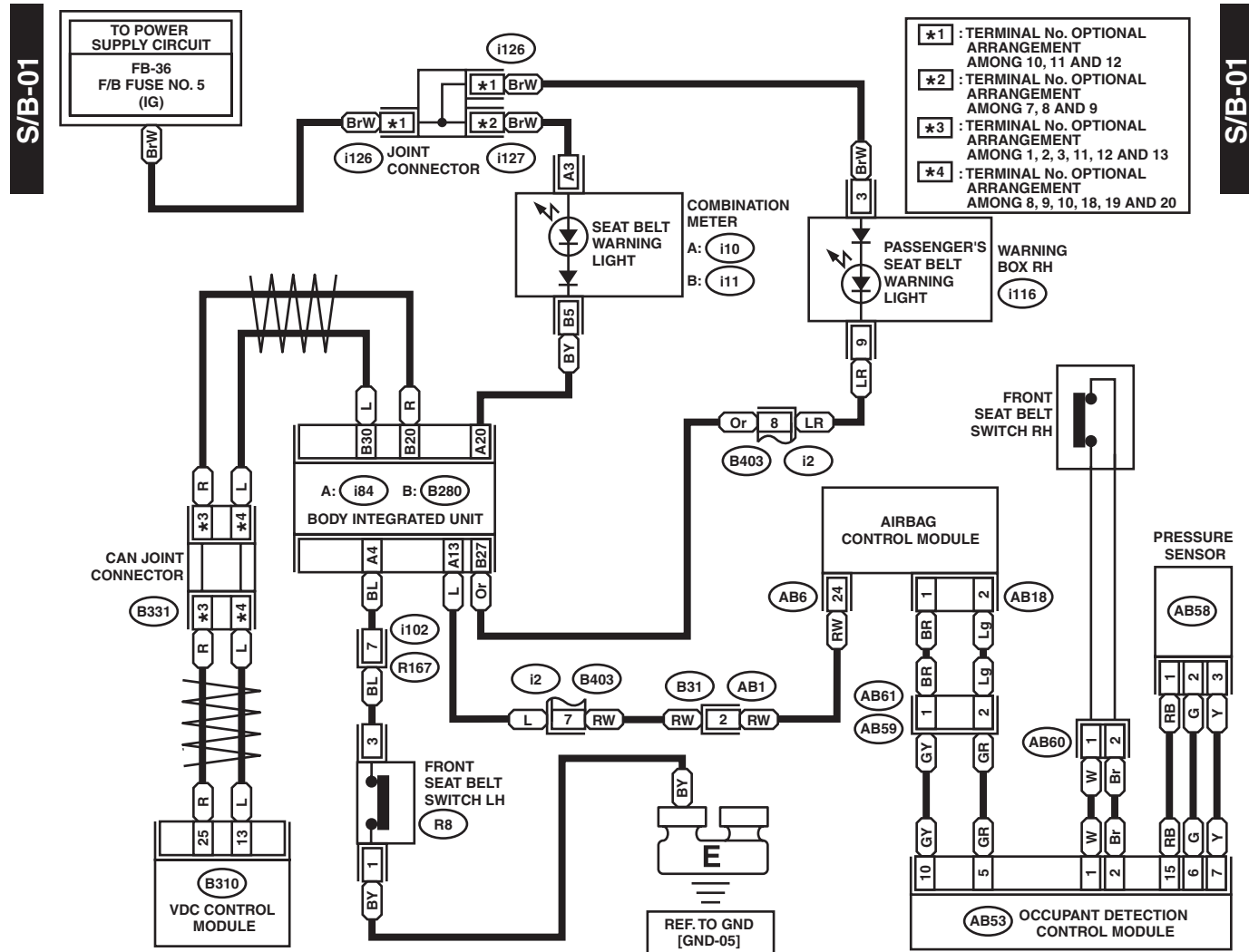
3. PASSENGER'S SEAT



WI-16042

22.Seat Belt Warning System

A: WIRING DIAGRAM



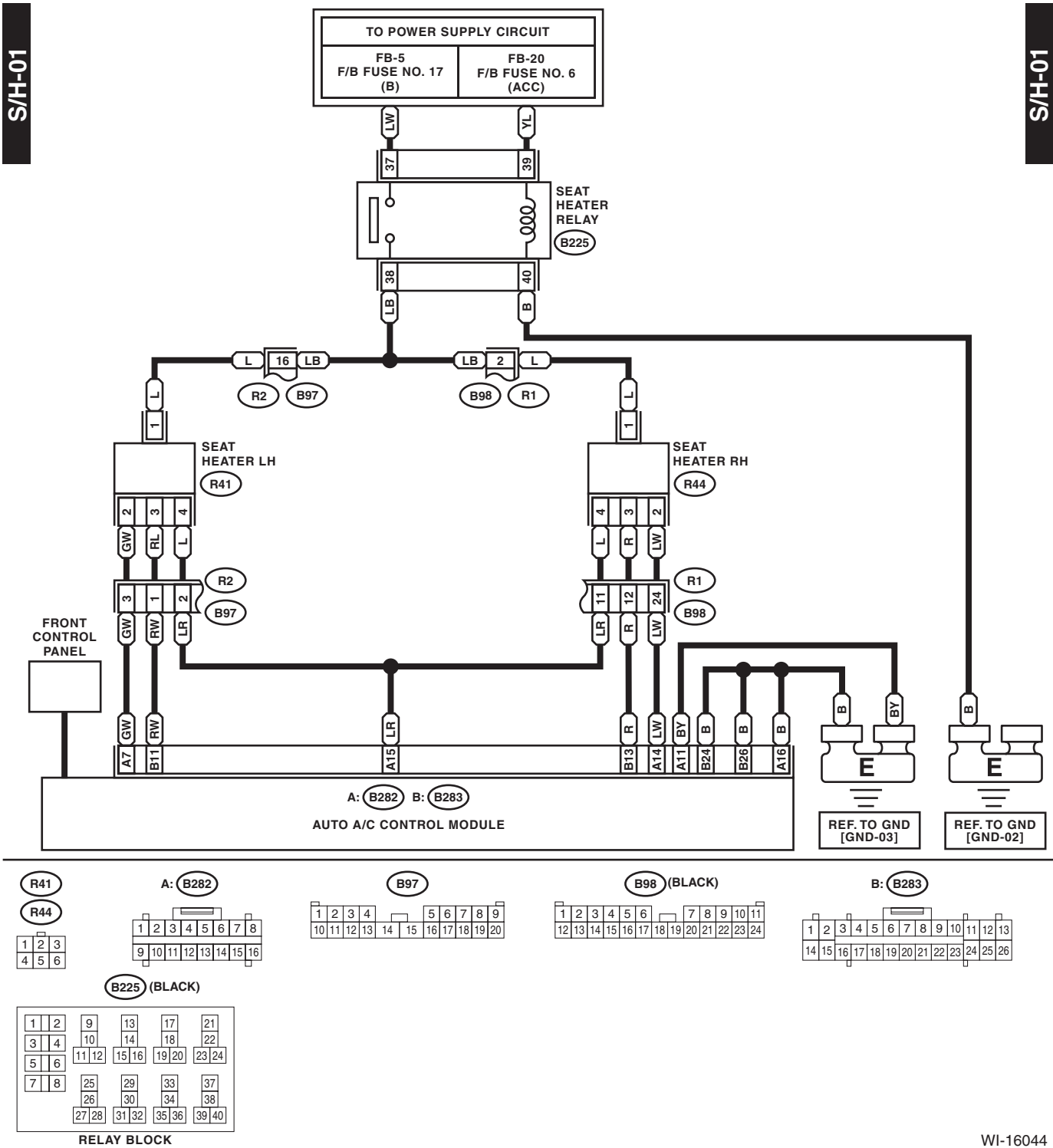
WI-21498

Seat Heater System

WIRING SYSTEM

23.Seat Heater System

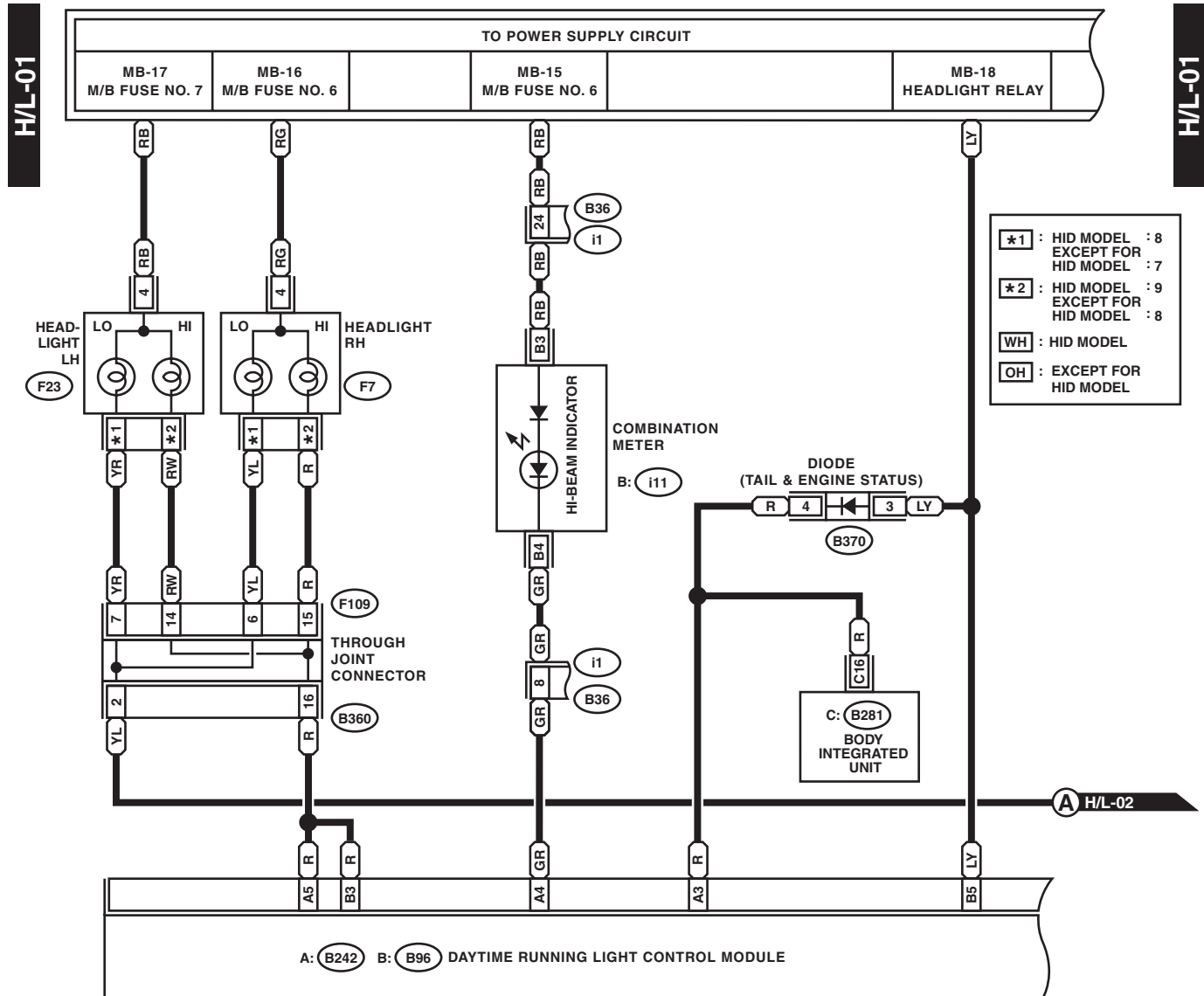
A: WIRING DIAGRAM



WI-16044

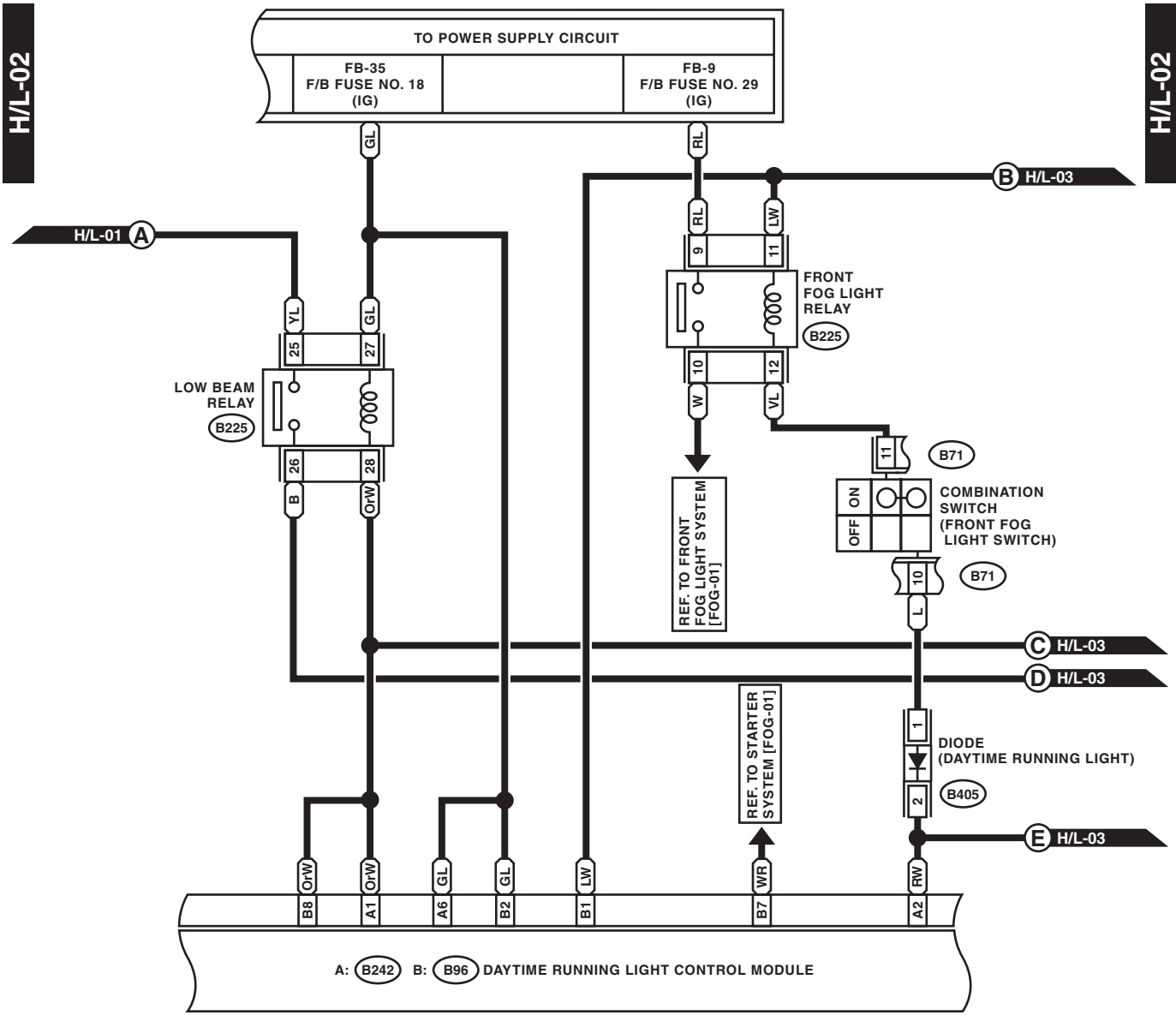
24.Headlight System

A: WIRING DIAGRAM



Headlight System

WIRING SYSTEM



(B405) (BLACK)

1	2
---	---

B: (B96) (BLACK)

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

A: (B242)

1	2	3	4	5
6	7	8	9	10

(B71)

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

(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	32	35
		28	36	39	40

RELAY BLOCK

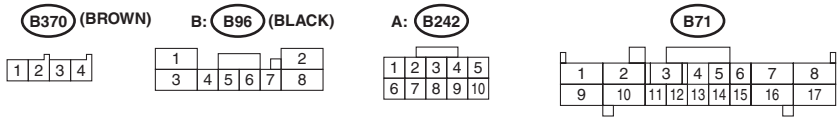
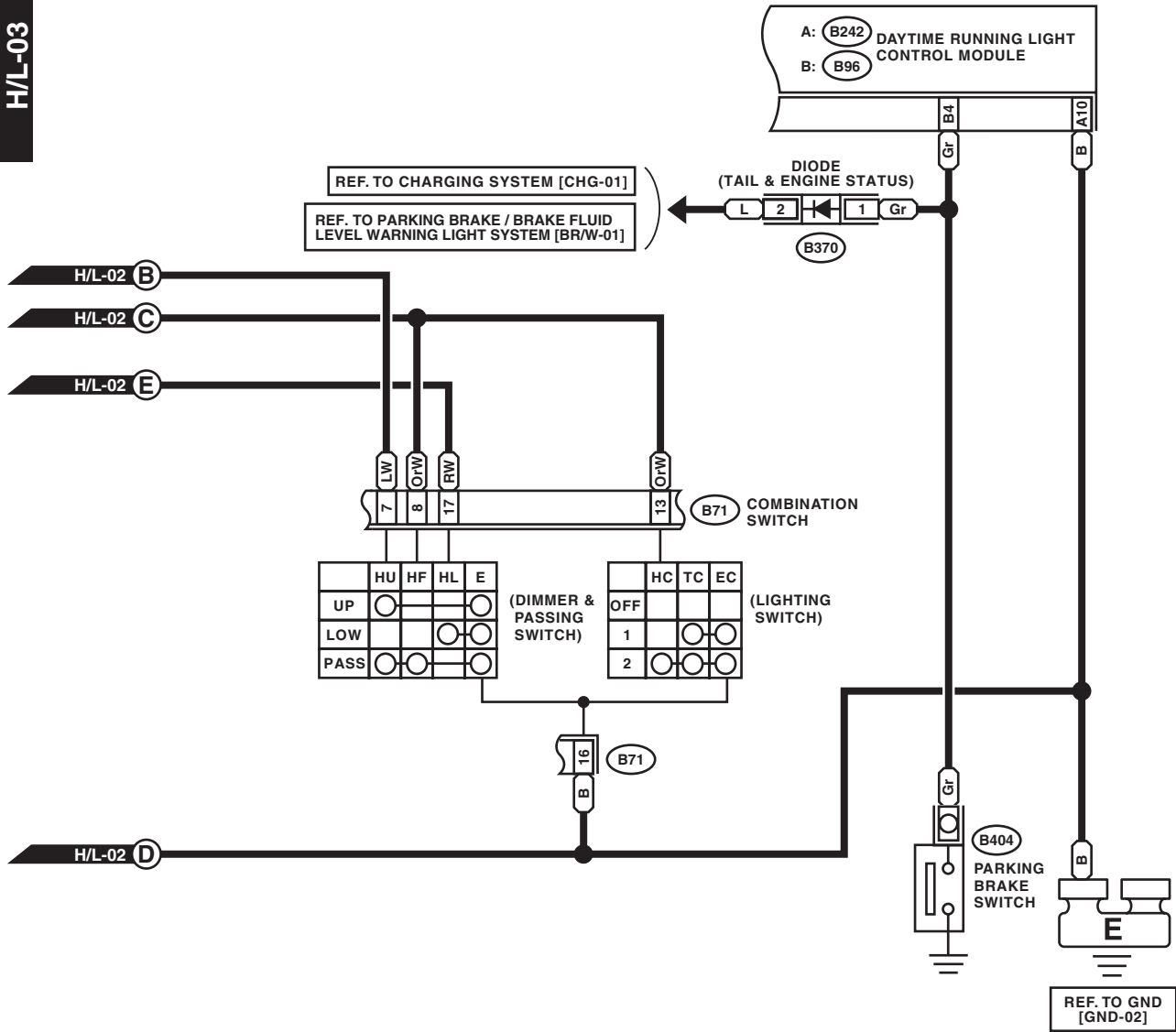
WI-16046

Headlight System

WIRING SYSTEM

H/L-03

H/L-03



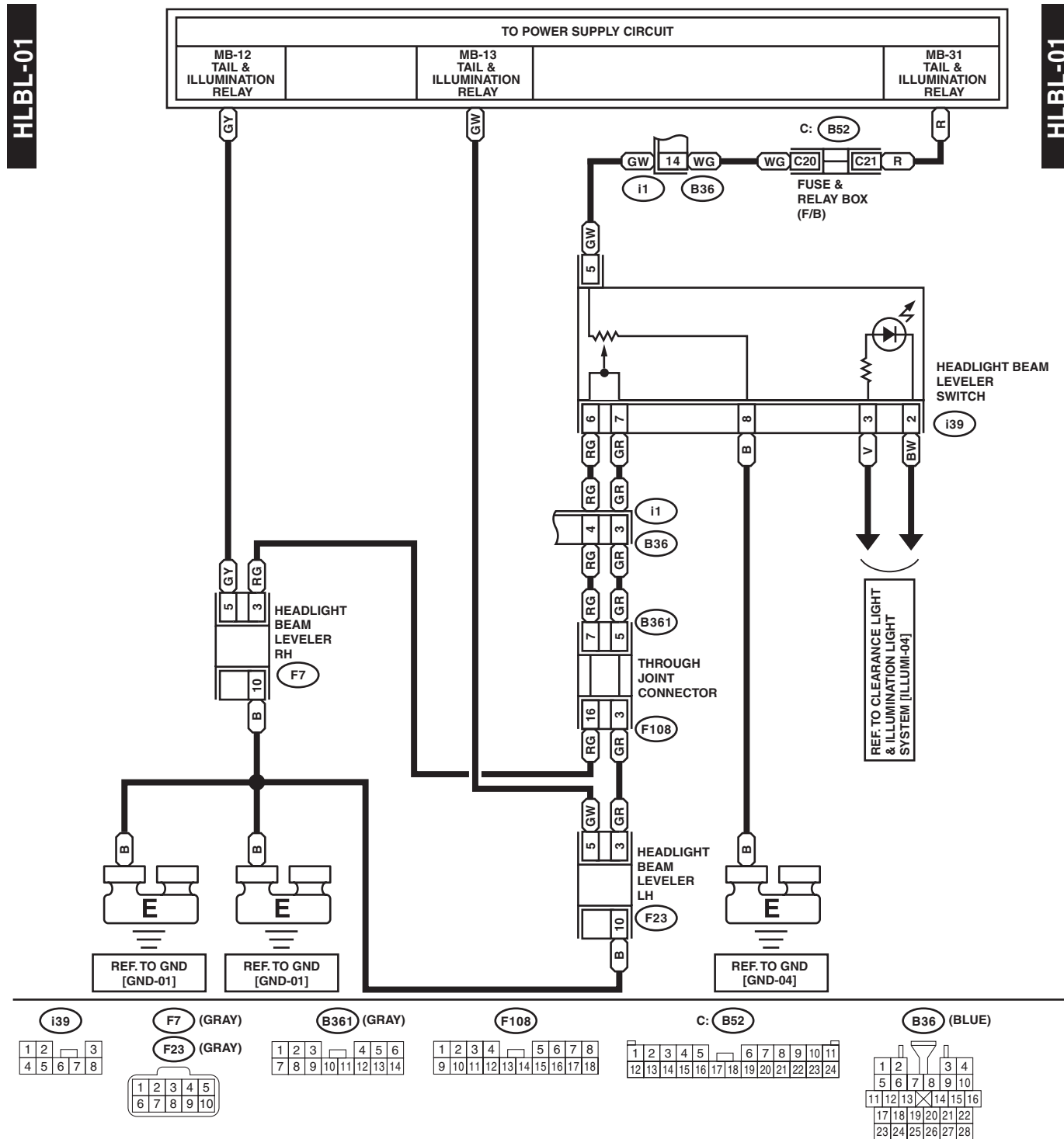
WI-16047

Headlight Beam Leveler System

WIRING SYSTEM

25.Headlight Beam Leveler System

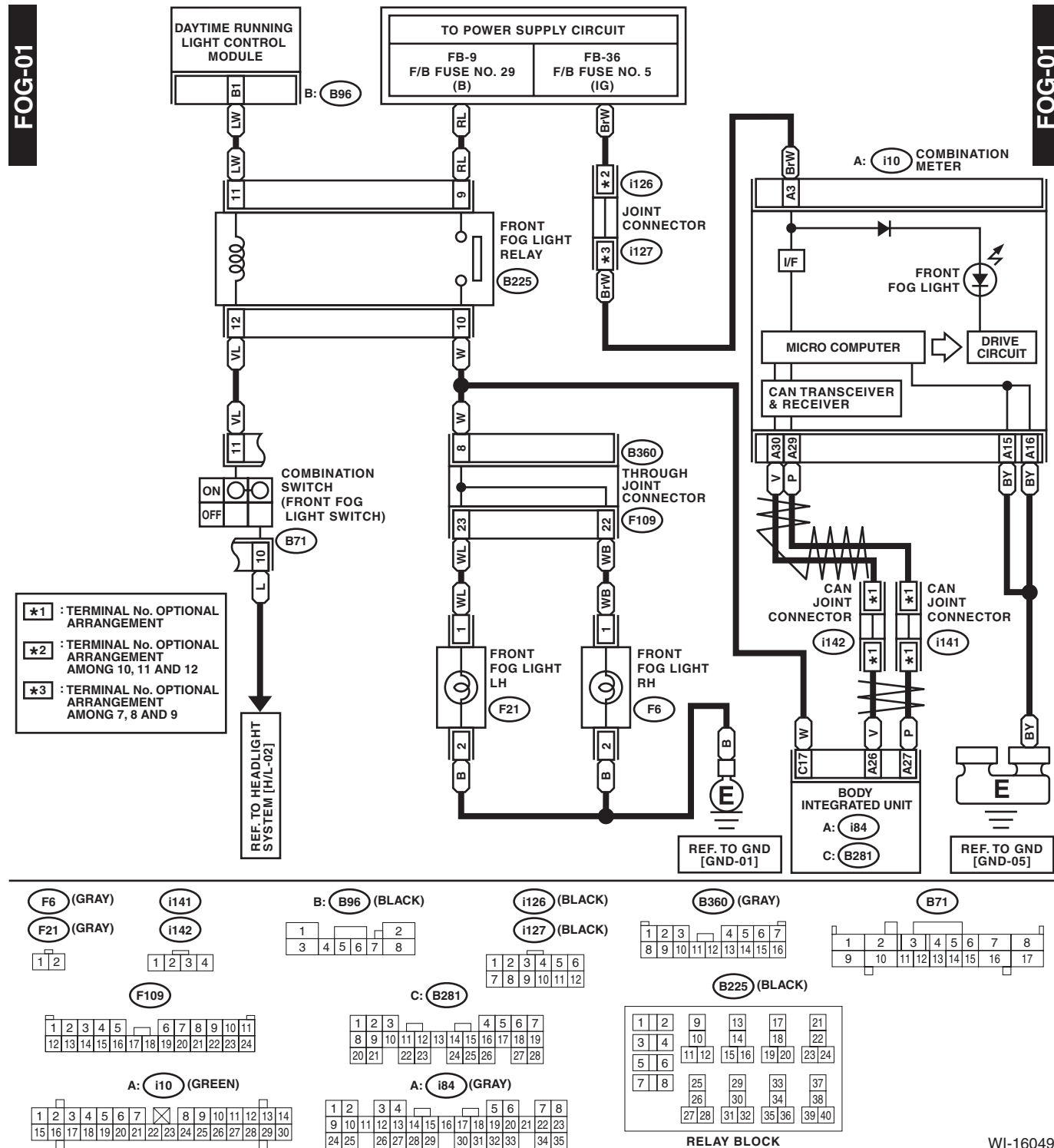
A: WIRING DIAGRAM



WI-21030

26.Front Fog Light System

A: WIRING DIAGRAM



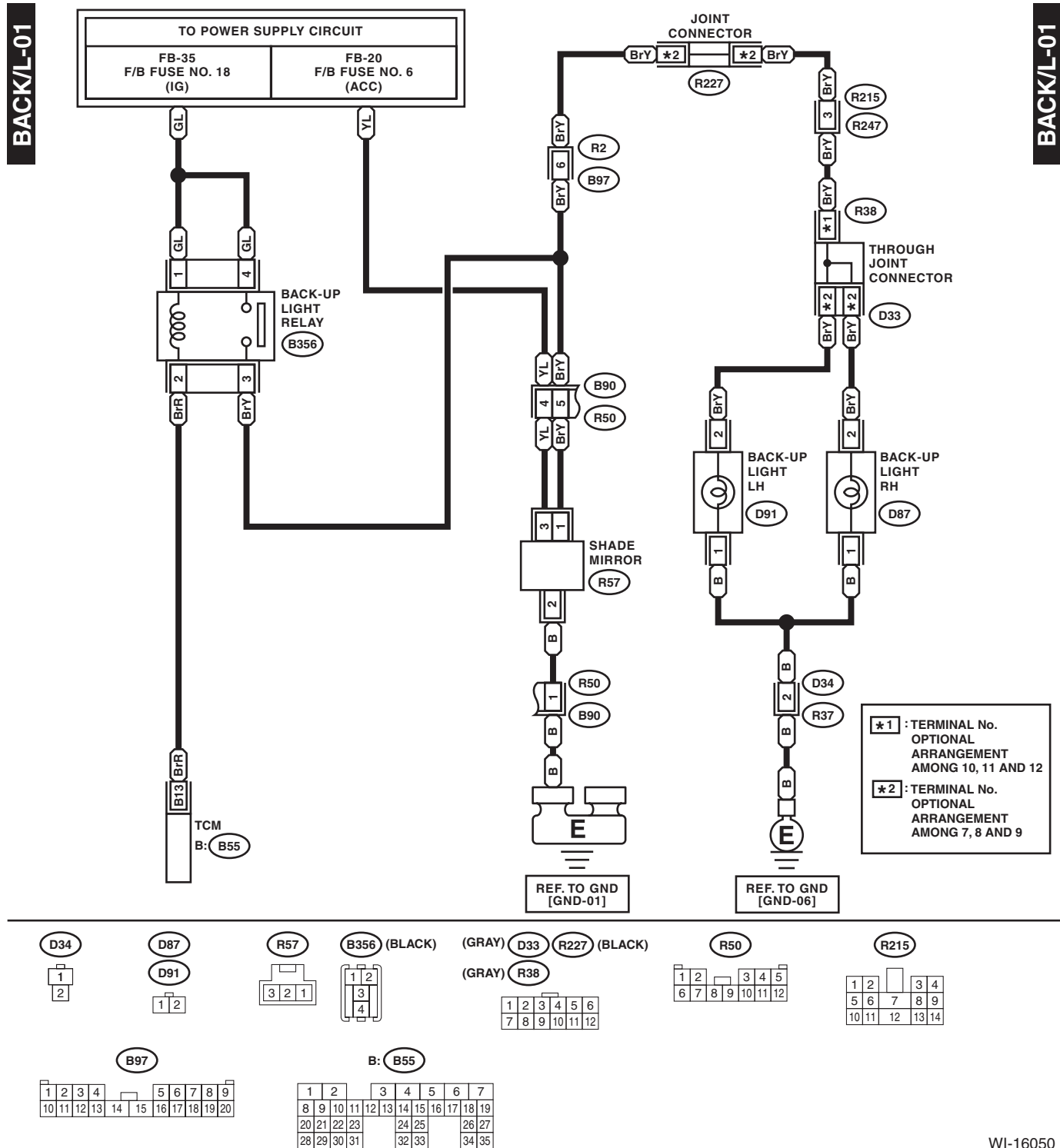
WI-16049

Back-up Light System

WIRING SYSTEM

27.Back-up Light System

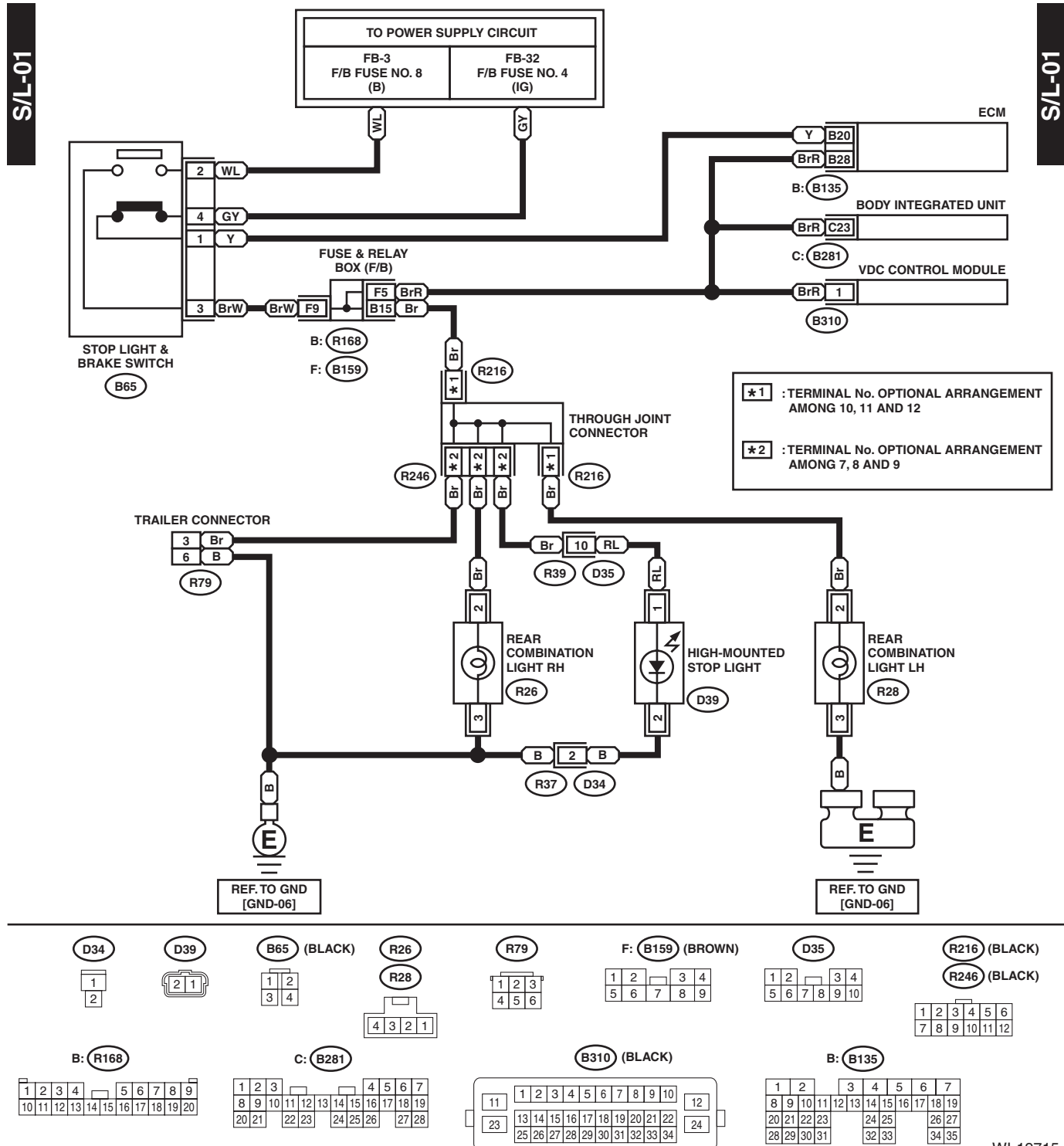
A: WIRING DIAGRAM



WI-16050

28.Stop Light System

A: WIRING DIAGRAM

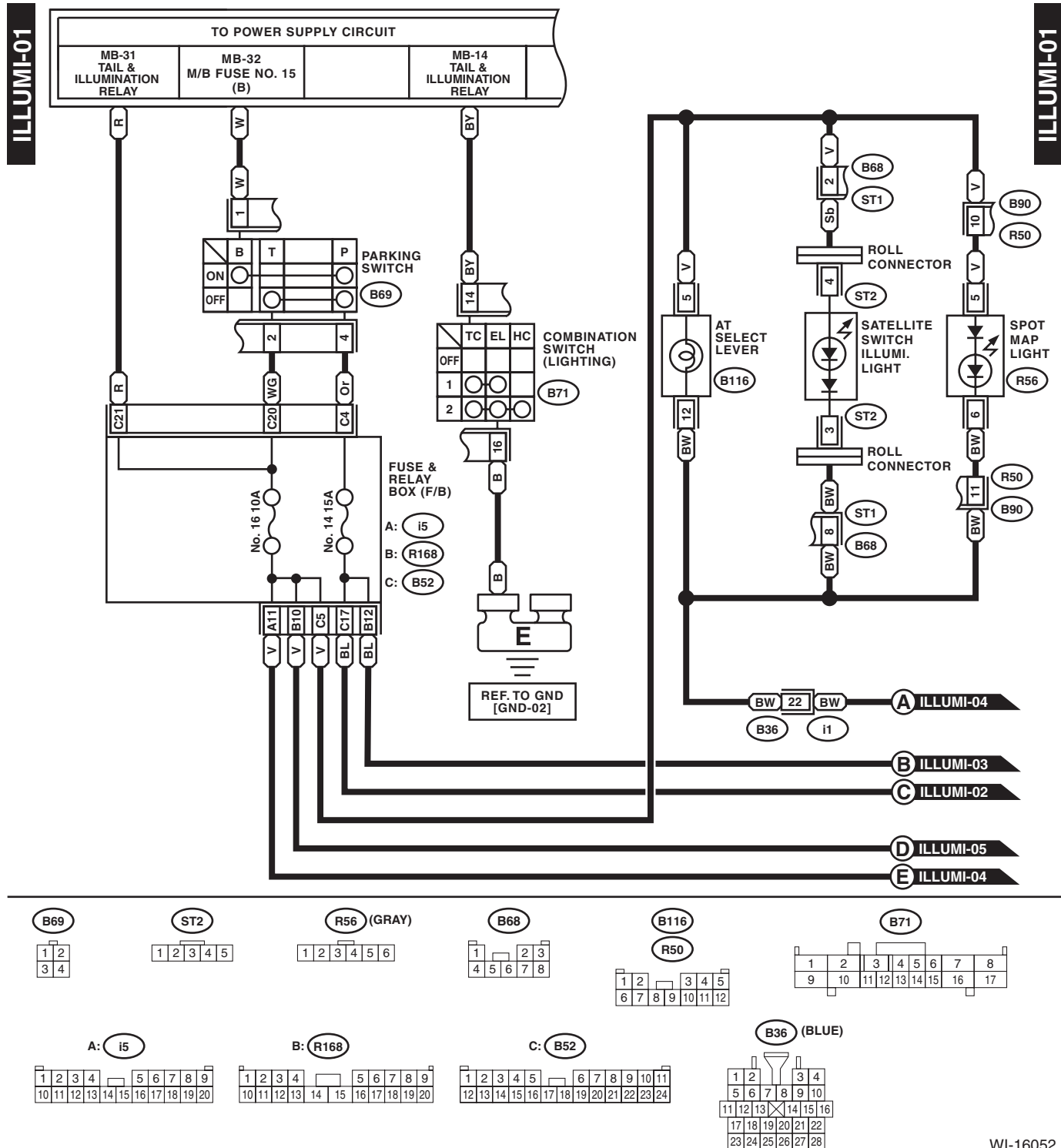


Clearance Light and Illumination Light System

WIRING SYSTEM

29. Clearance Light and Illumination Light System

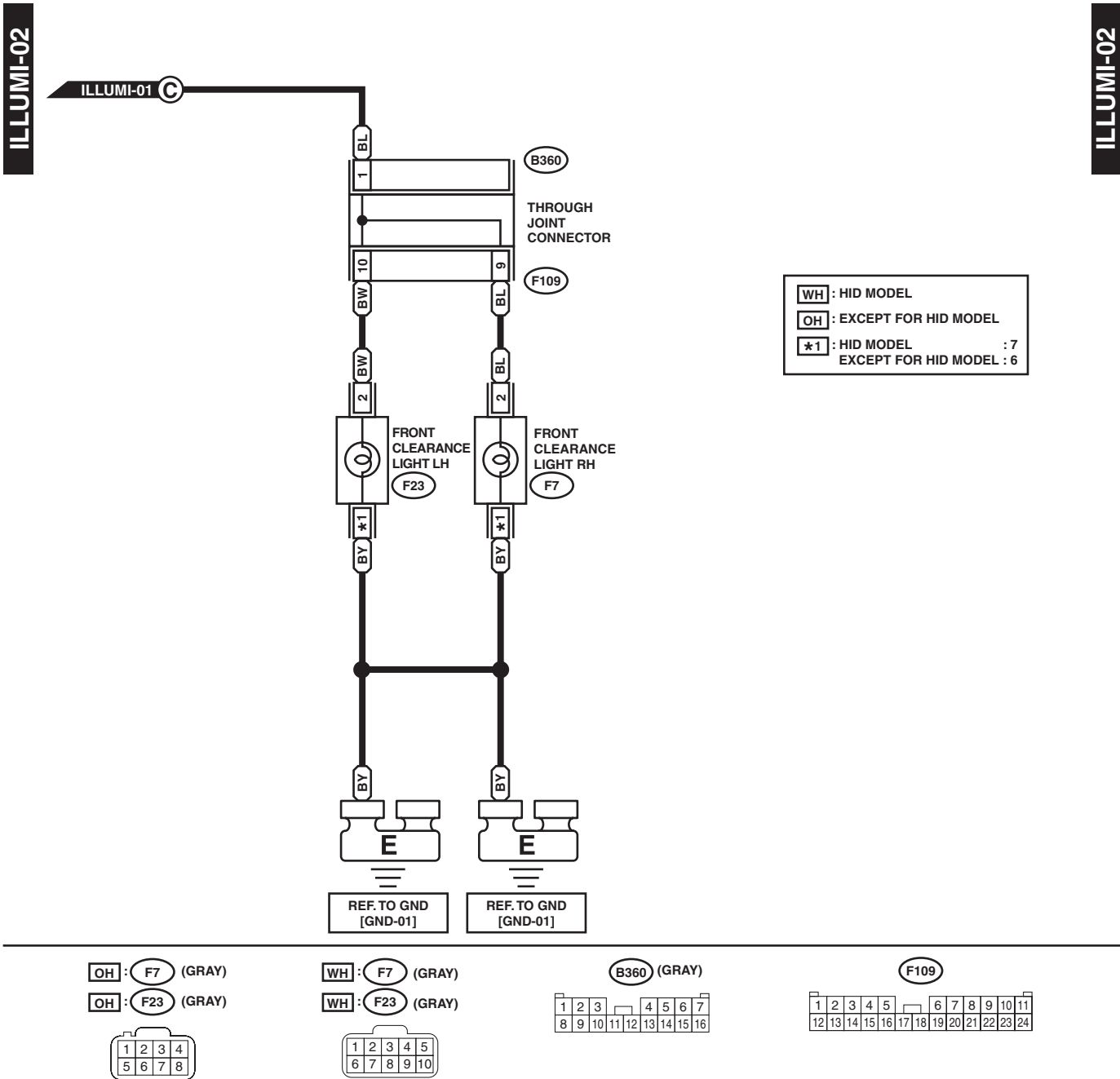
A: WIRING DIAGRAM



WI-16052

Clearance Light and Illumination Light System

WIRING SYSTEM



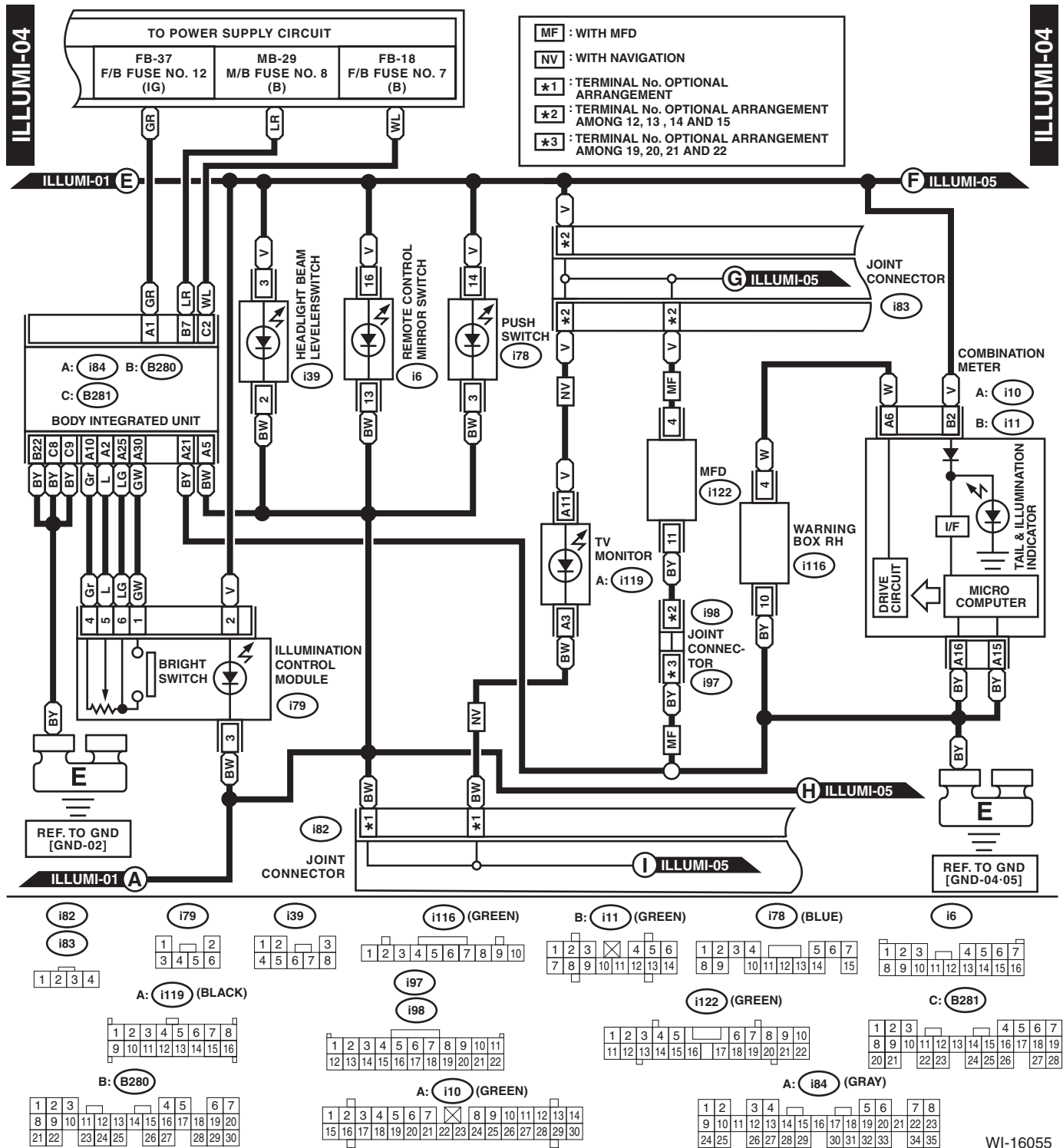
WI-21031

WIRING SYSTEM

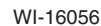


Clearance Light and Illumination Light System

WIRING SYSTEM

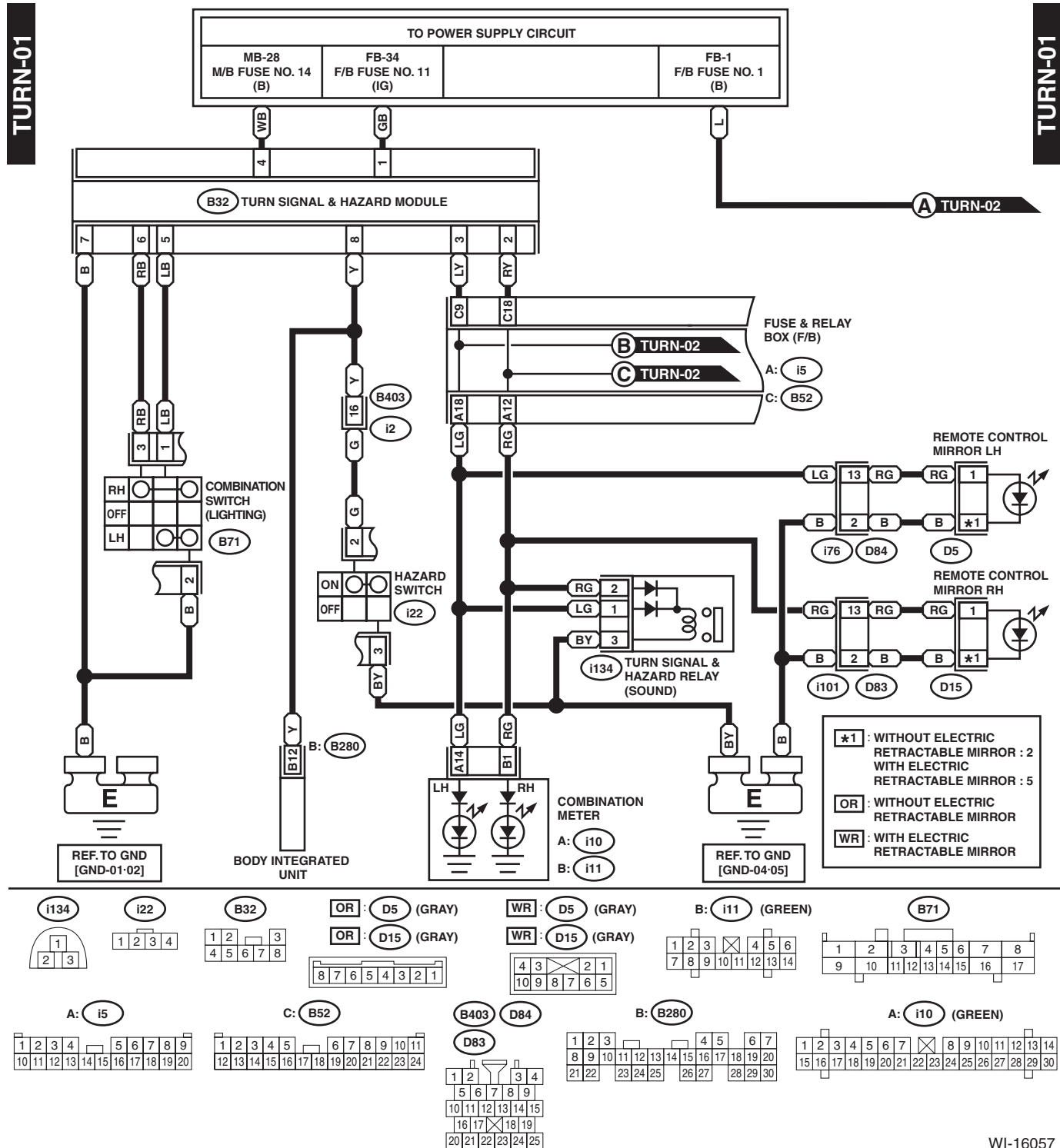


WIRING SYSTEM



30. Turn Signal Light and Hazard Light System

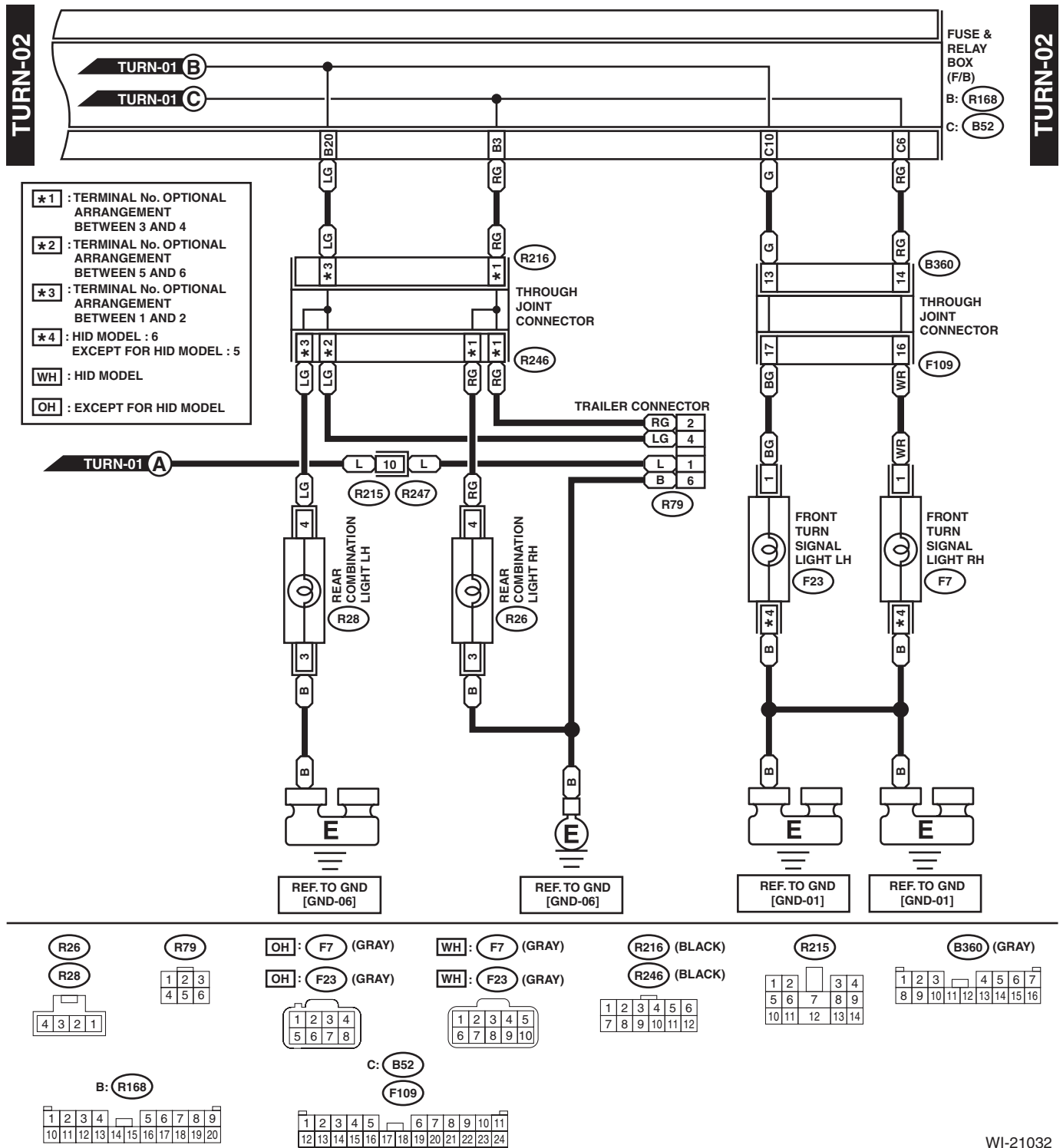
A: WIRING DIAGRAM



WI-16057

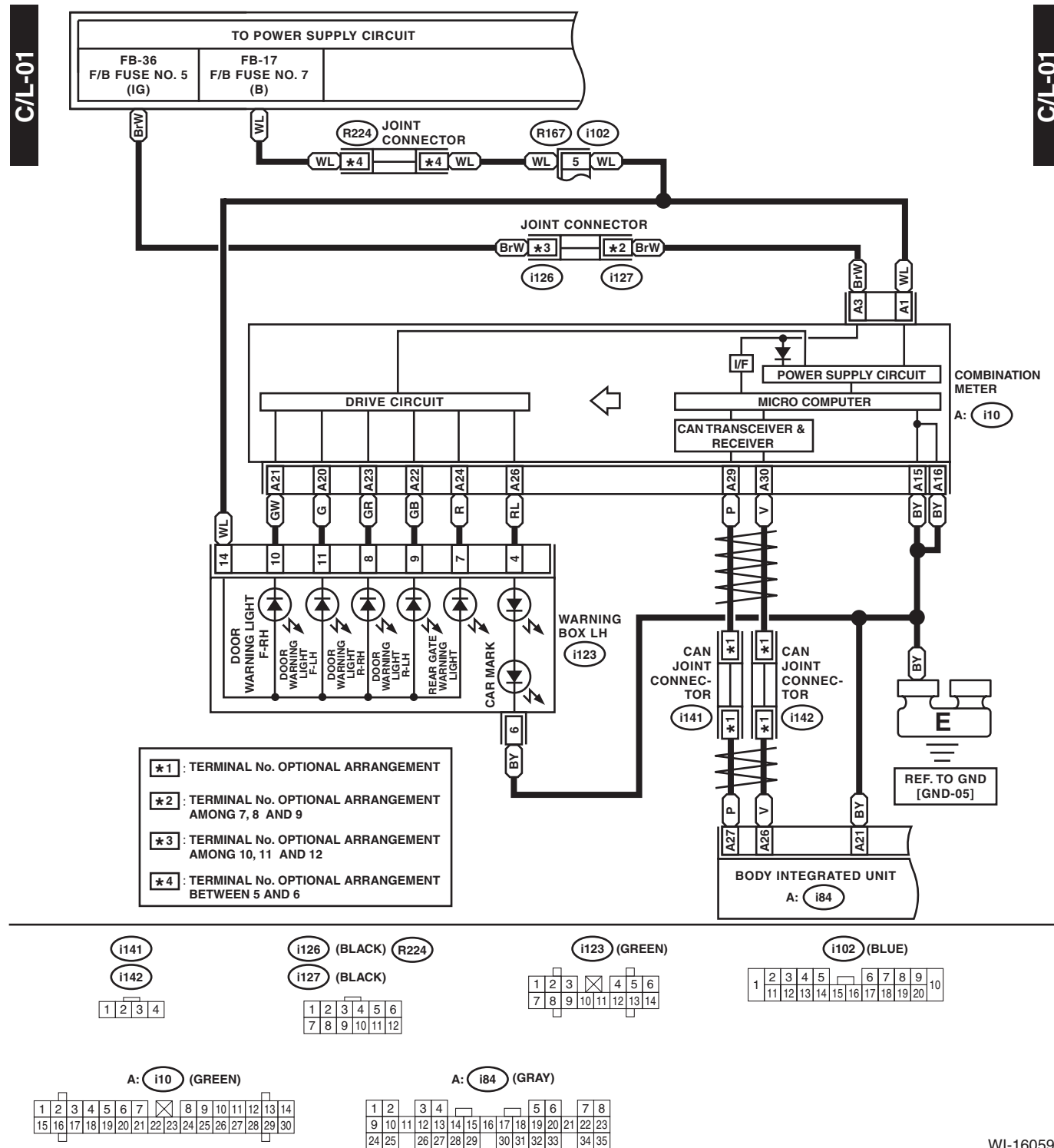
Turn Signal Light and Hazard Light System

WIRING SYSTEM



31. Interior Light System

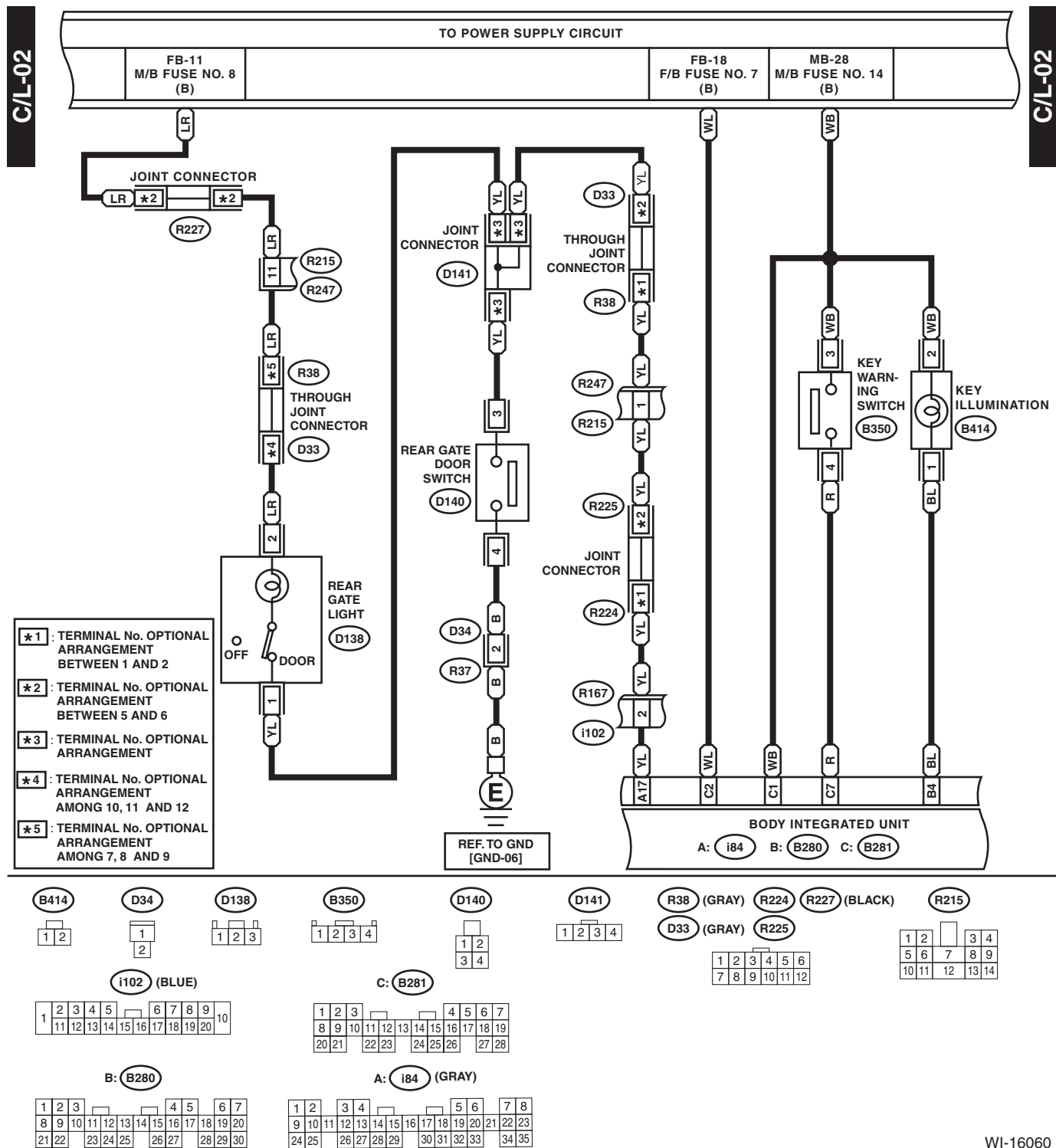
A: WIRING DIAGRAM



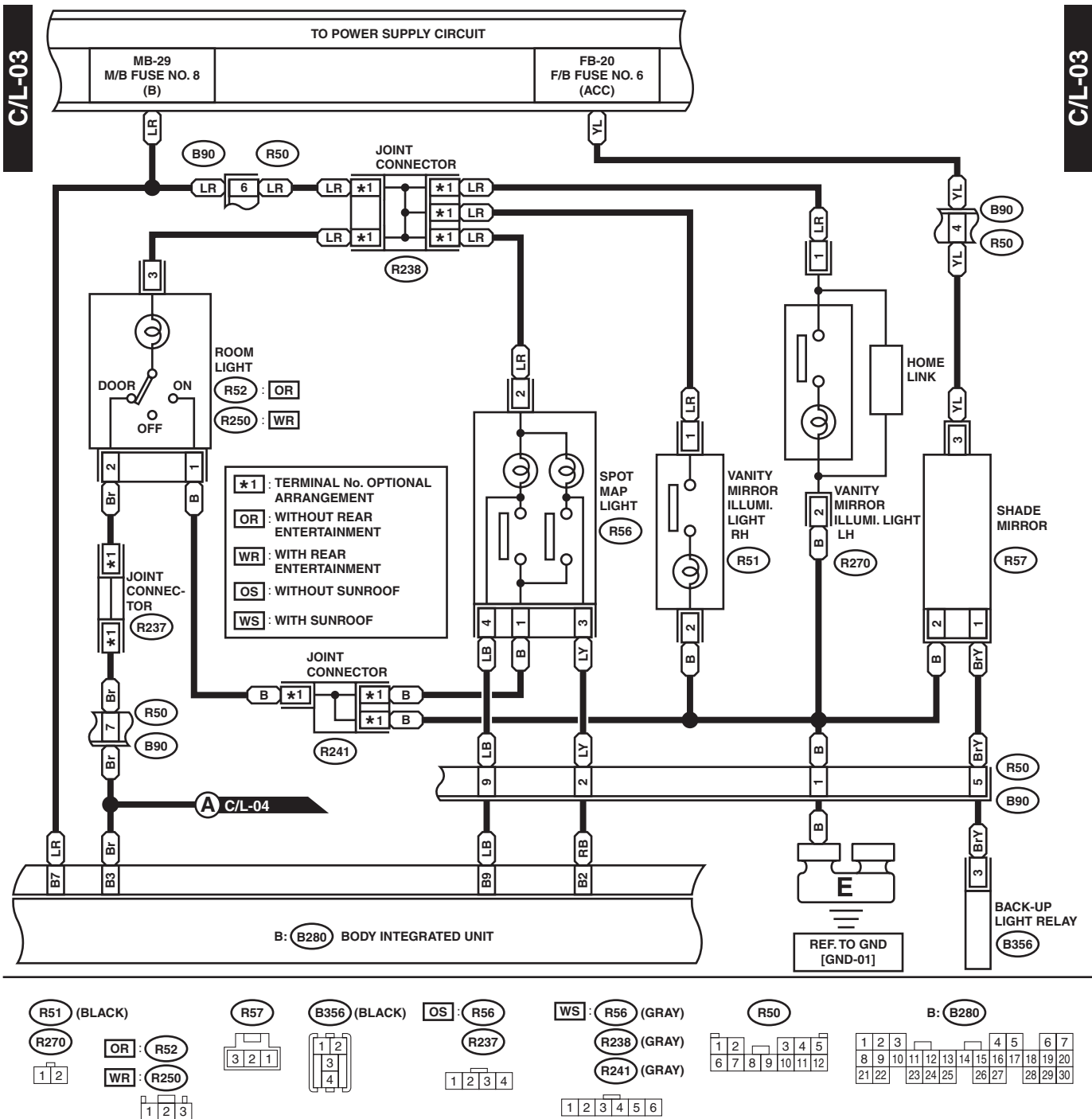
WI-16059

Interior Light System

WIRING SYSTEM



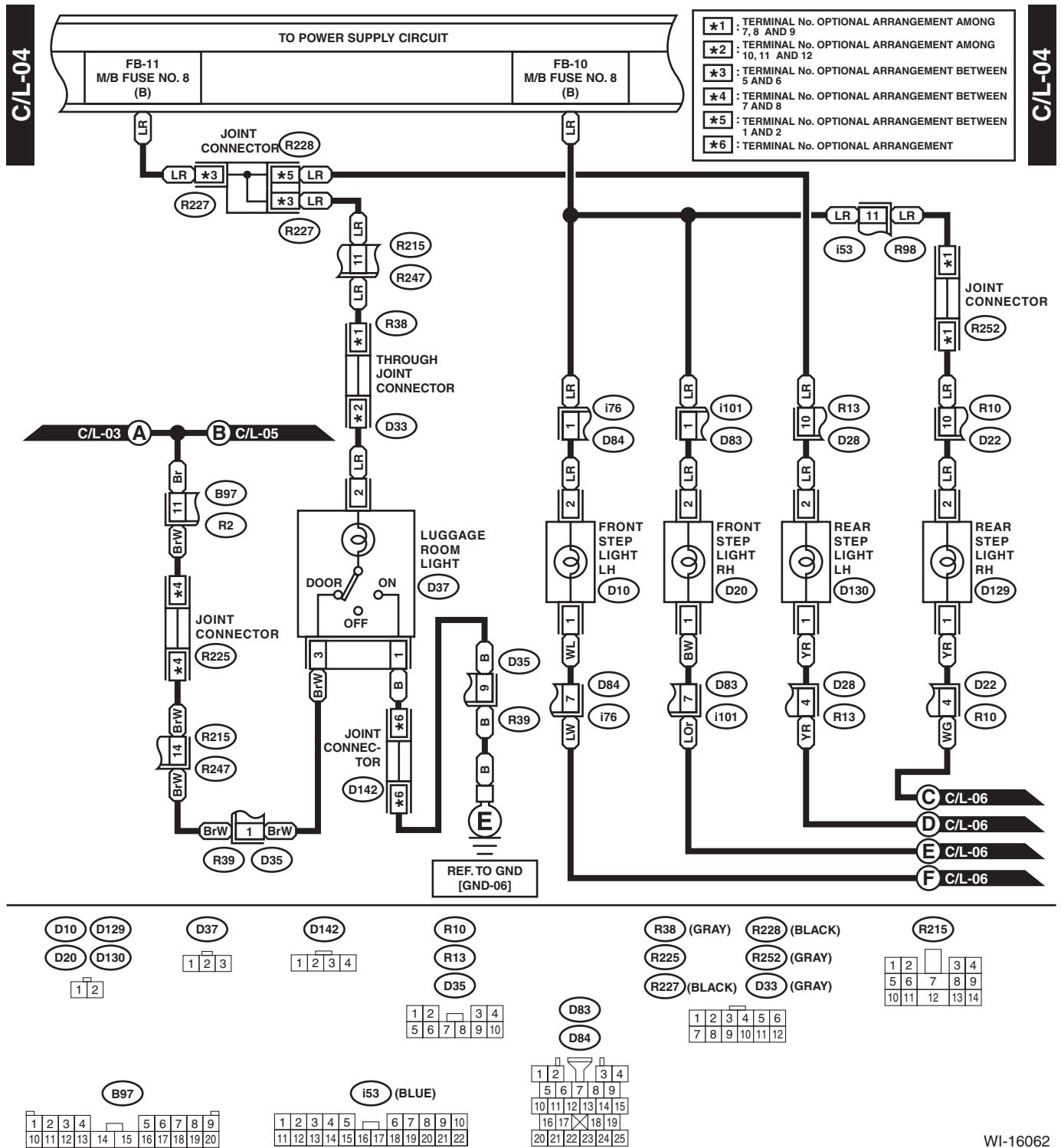
WI-16060



WI-16061

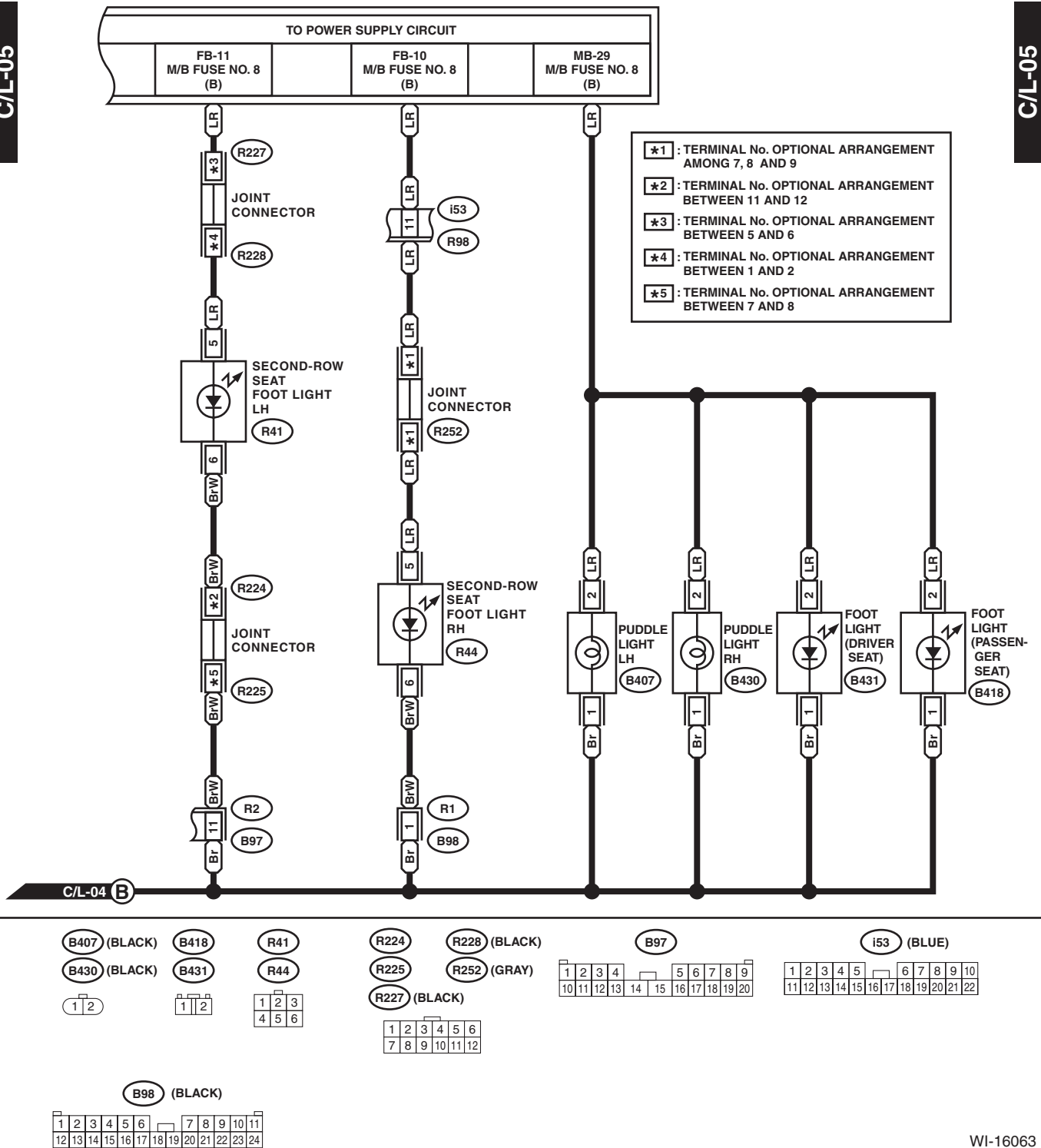
Interior Light System

WIRING SYSTEM



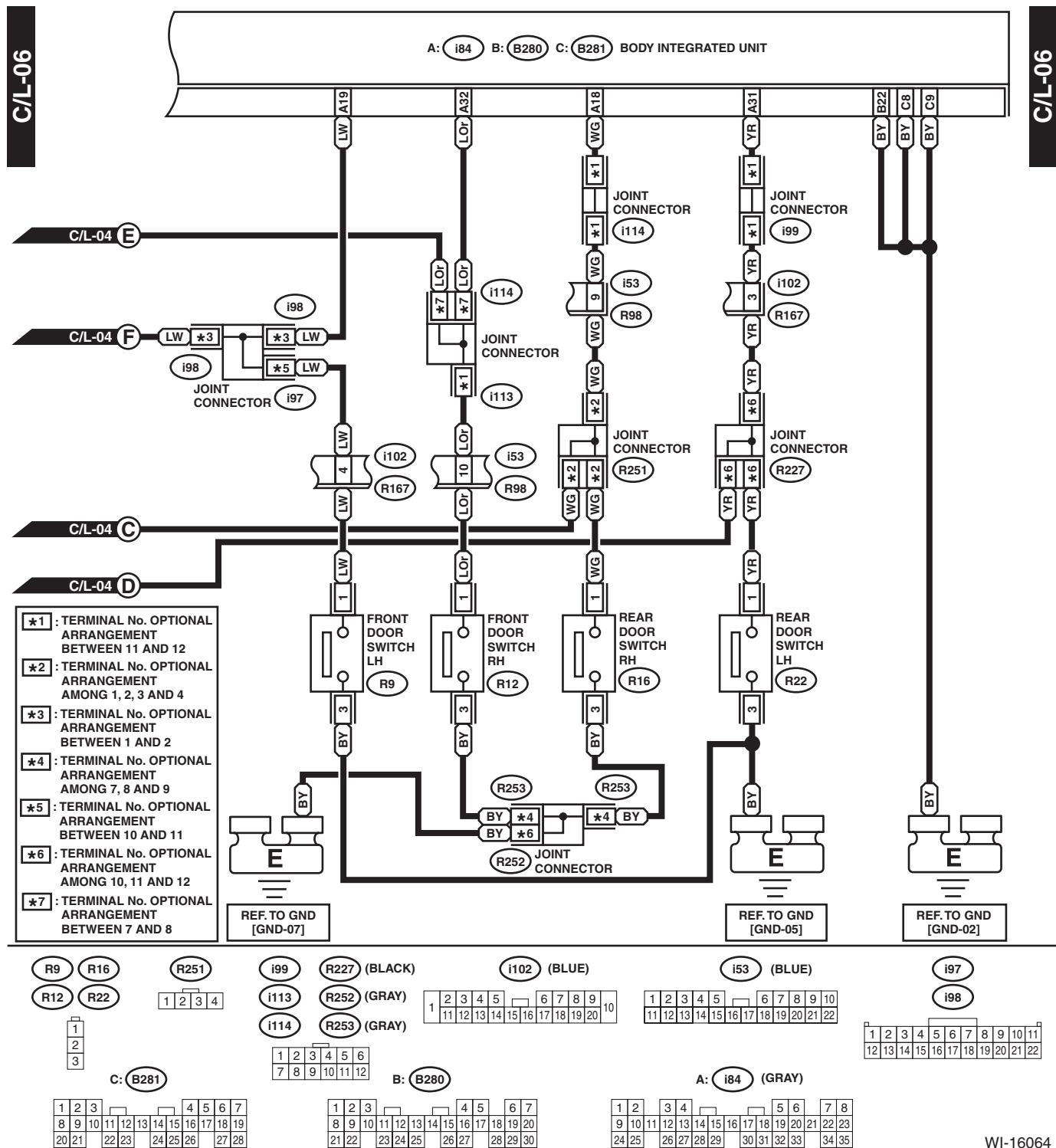
C/L-05

C/L-05



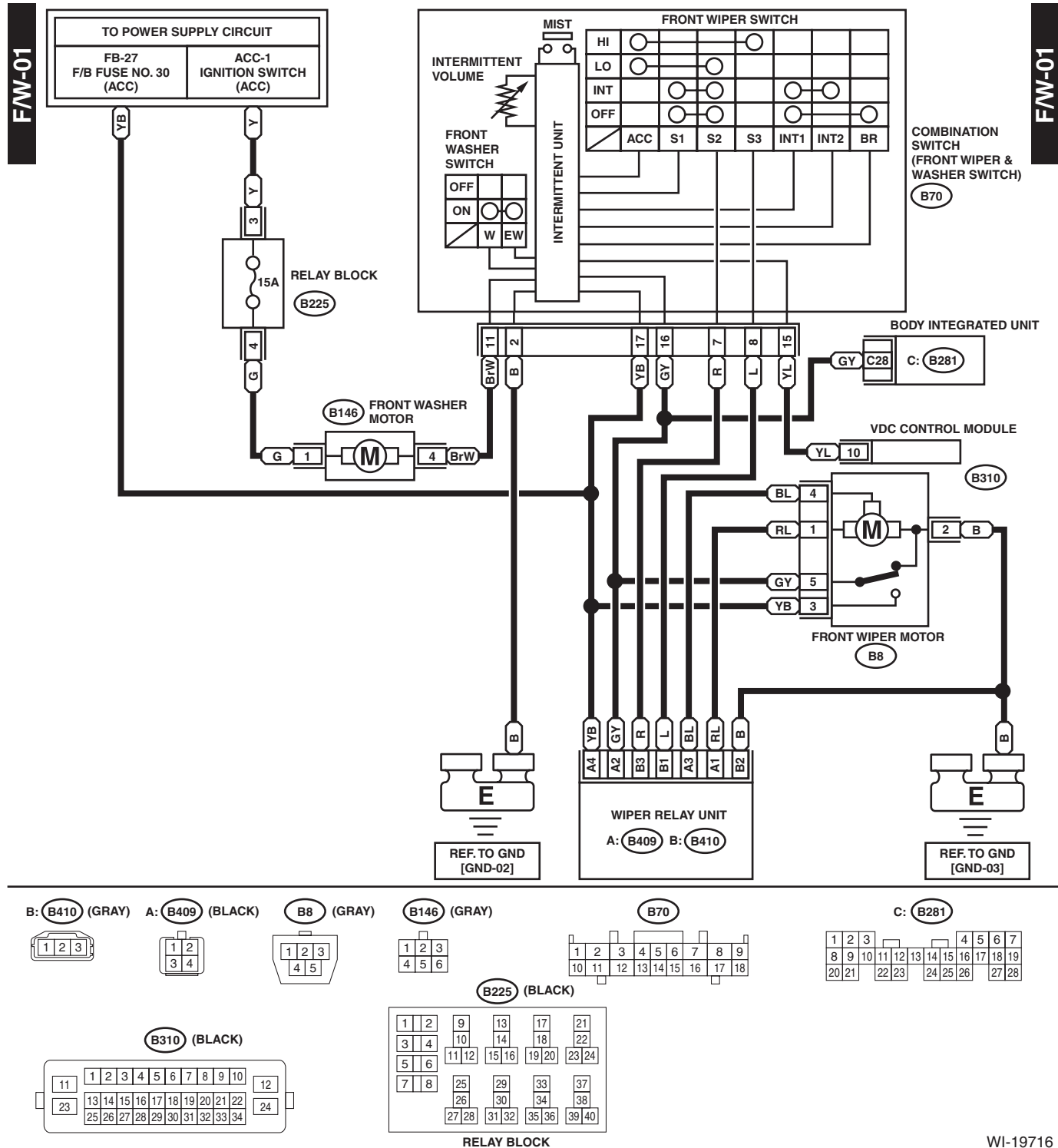
Interior Light System

WIRING SYSTEM



32.Front Wiper and Washer System

A: WIRING DIAGRAM

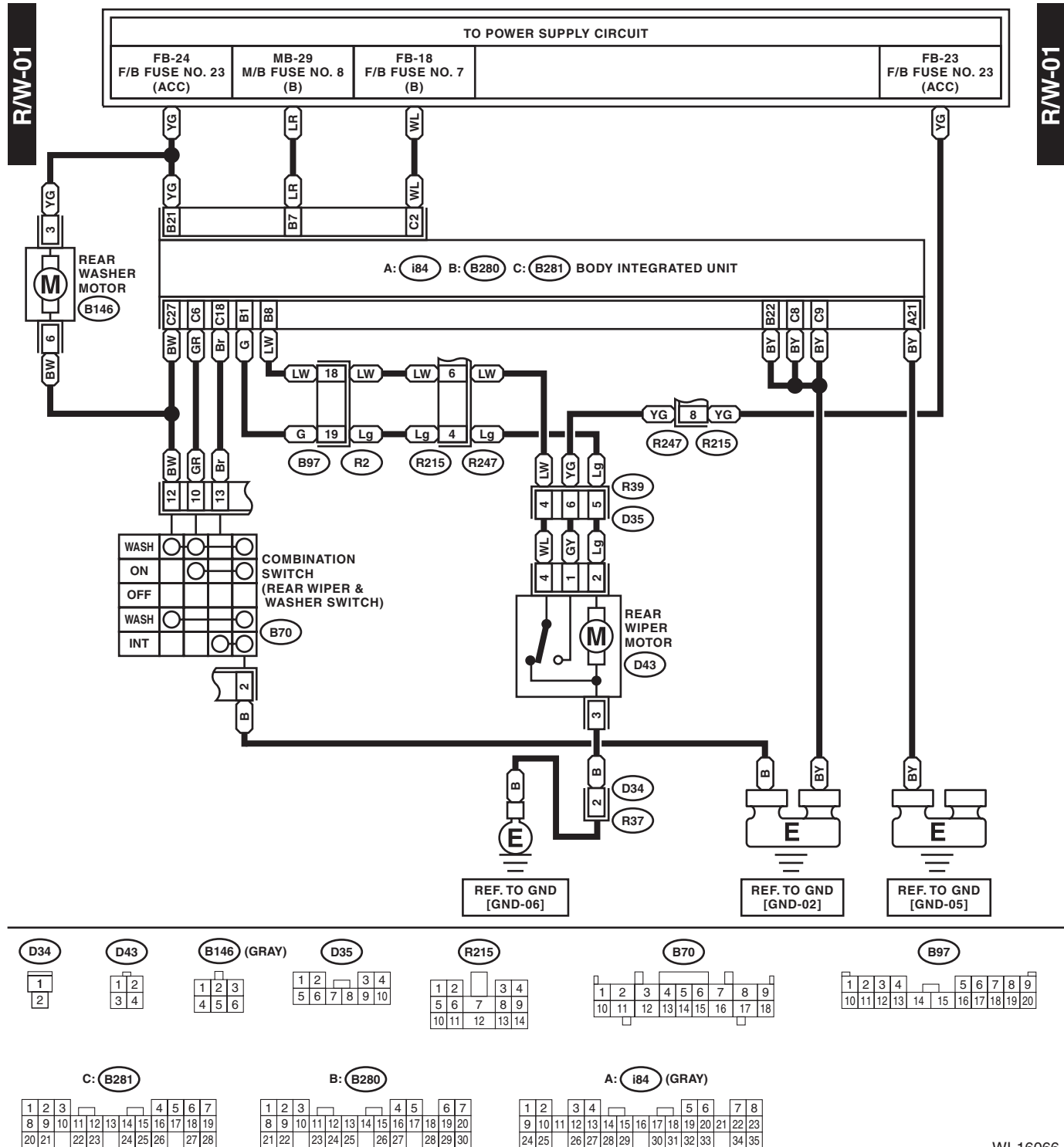


Rear Wiper and Washer System

WIRING SYSTEM

33.Rear Wiper and Washer System

A: WIRING DIAGRAM



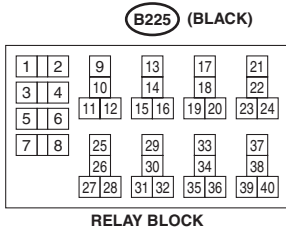
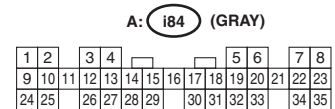
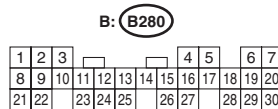
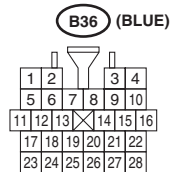
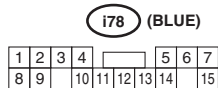
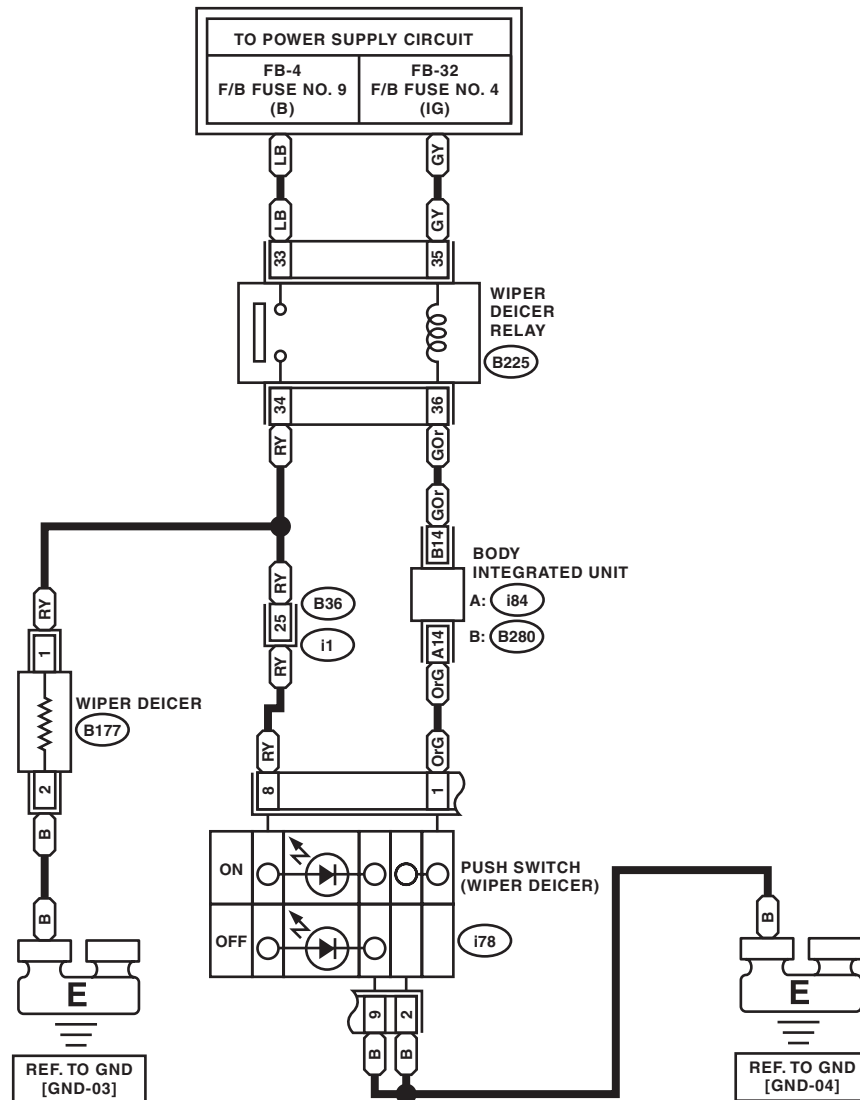
WI-16066

34. Wiper Deicer System

A: WIRING DIAGRAM

W/D-01

W/D-01



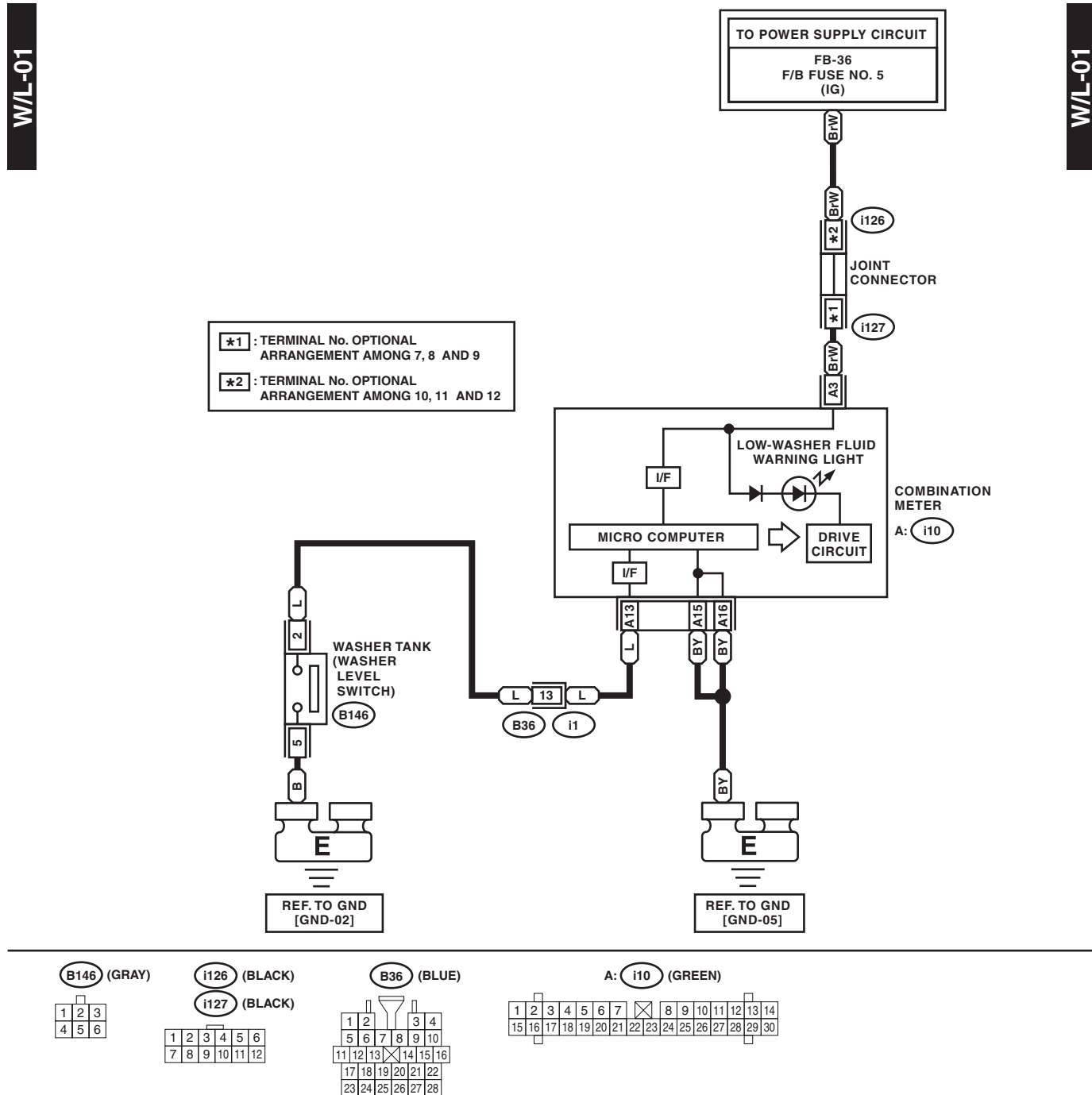
WI-16067

Washer Level Warning Light System

WIRING SYSTEM

35.Washer Level Warning Light System

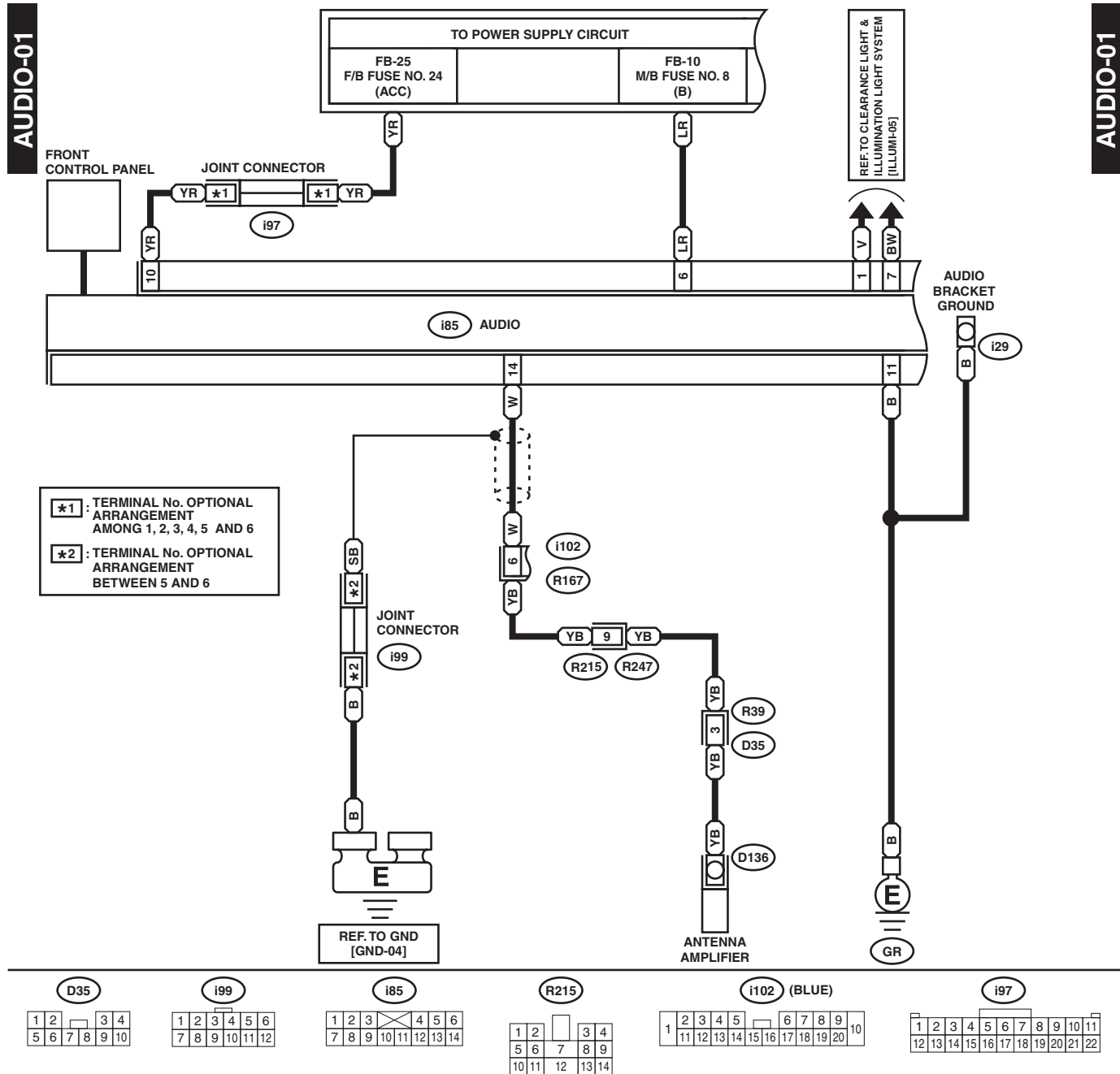
A: WIRING DIAGRAM



WI-16068

36.Audio System

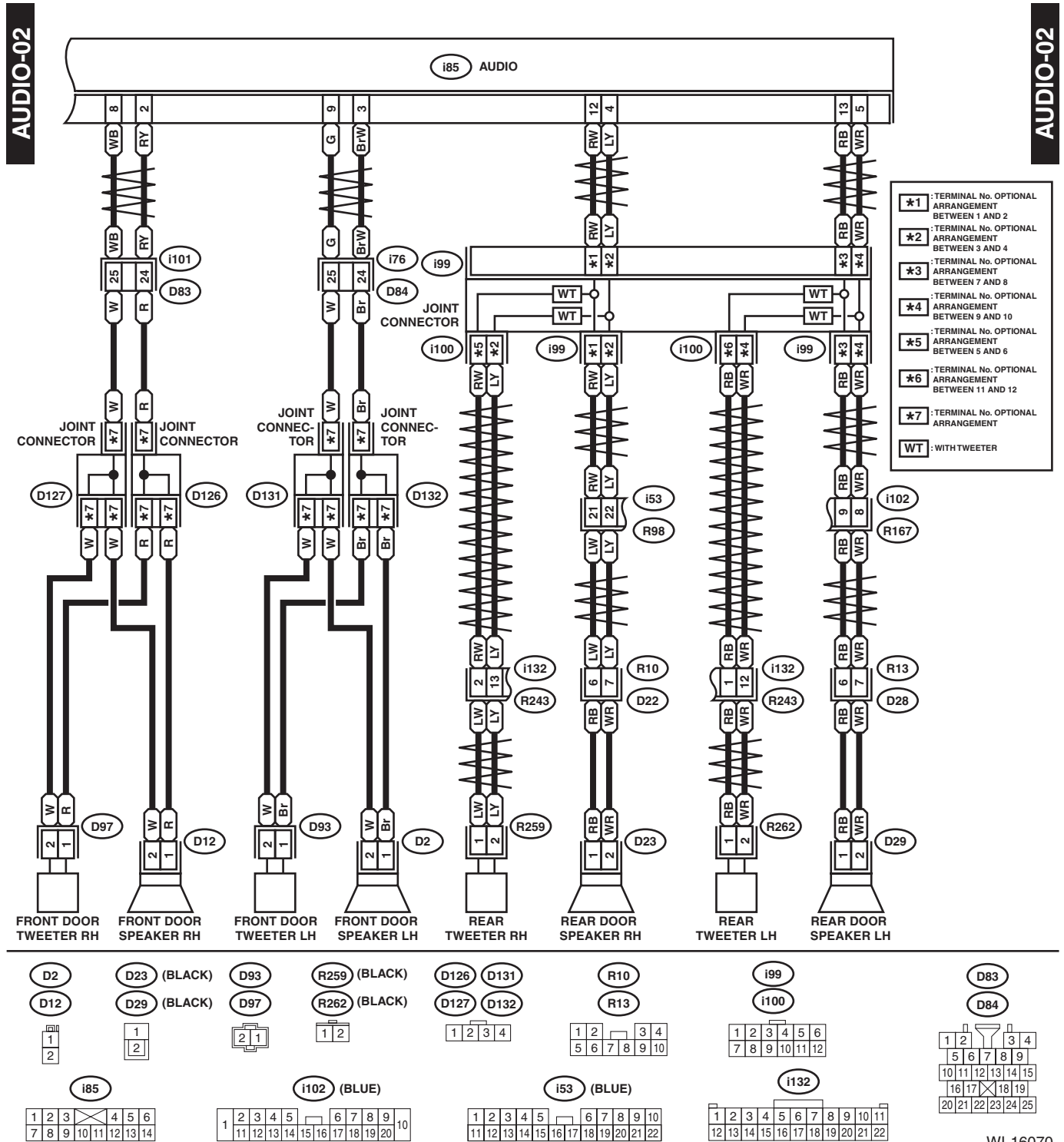
A: WIRING DIAGRAM



WI-16069

Audio System

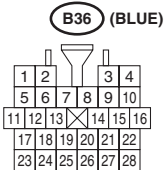
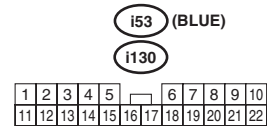
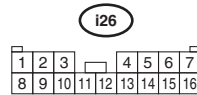
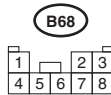
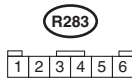
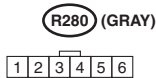
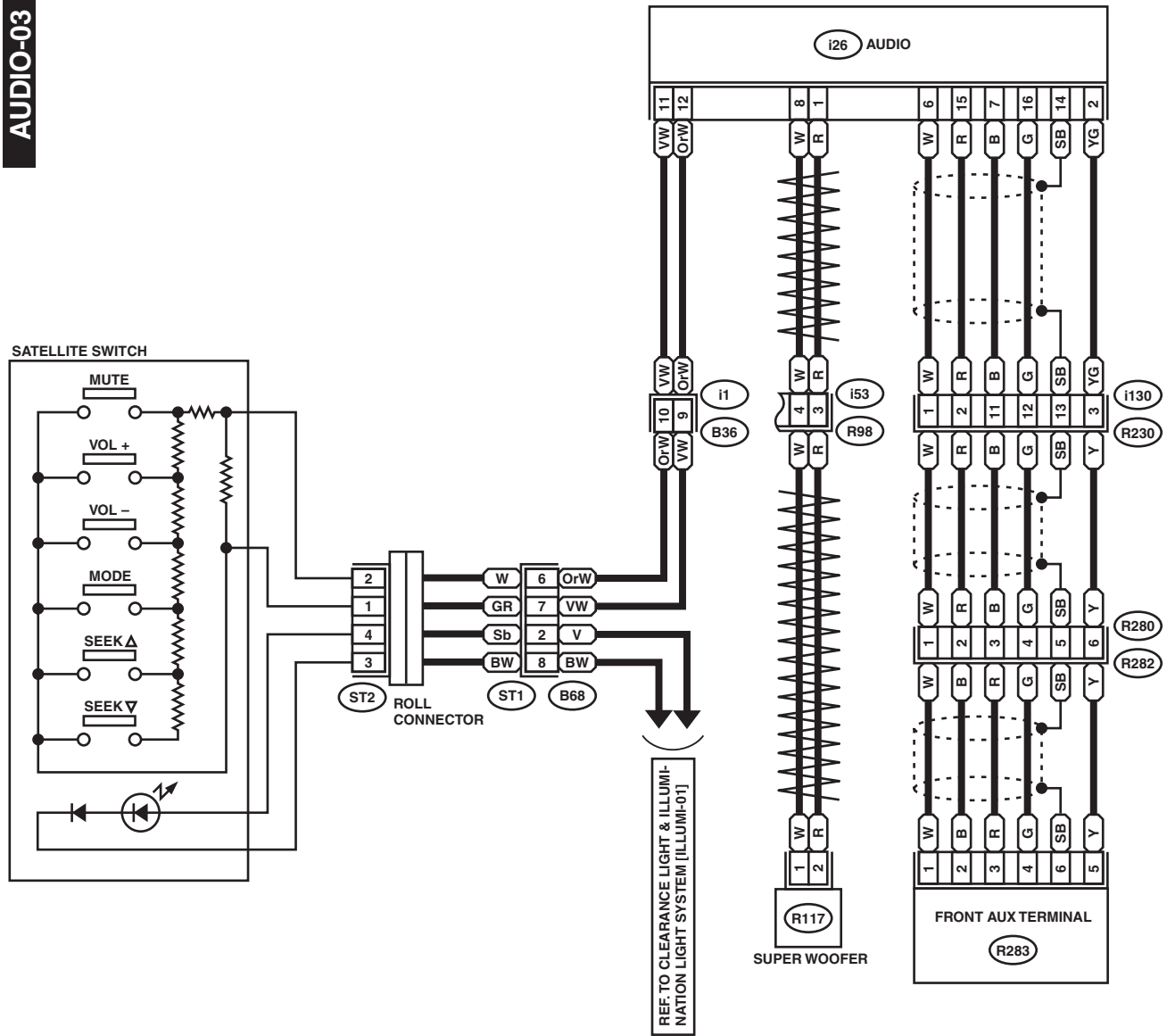
WIRING SYSTEM



1. WITHOUT REAR ENTERTAINMENT

AUDIO-03

AUDIO-03



WI-16071

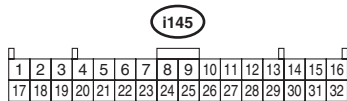
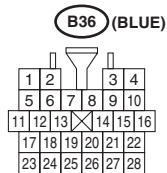
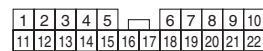
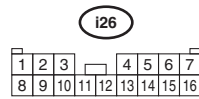
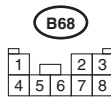
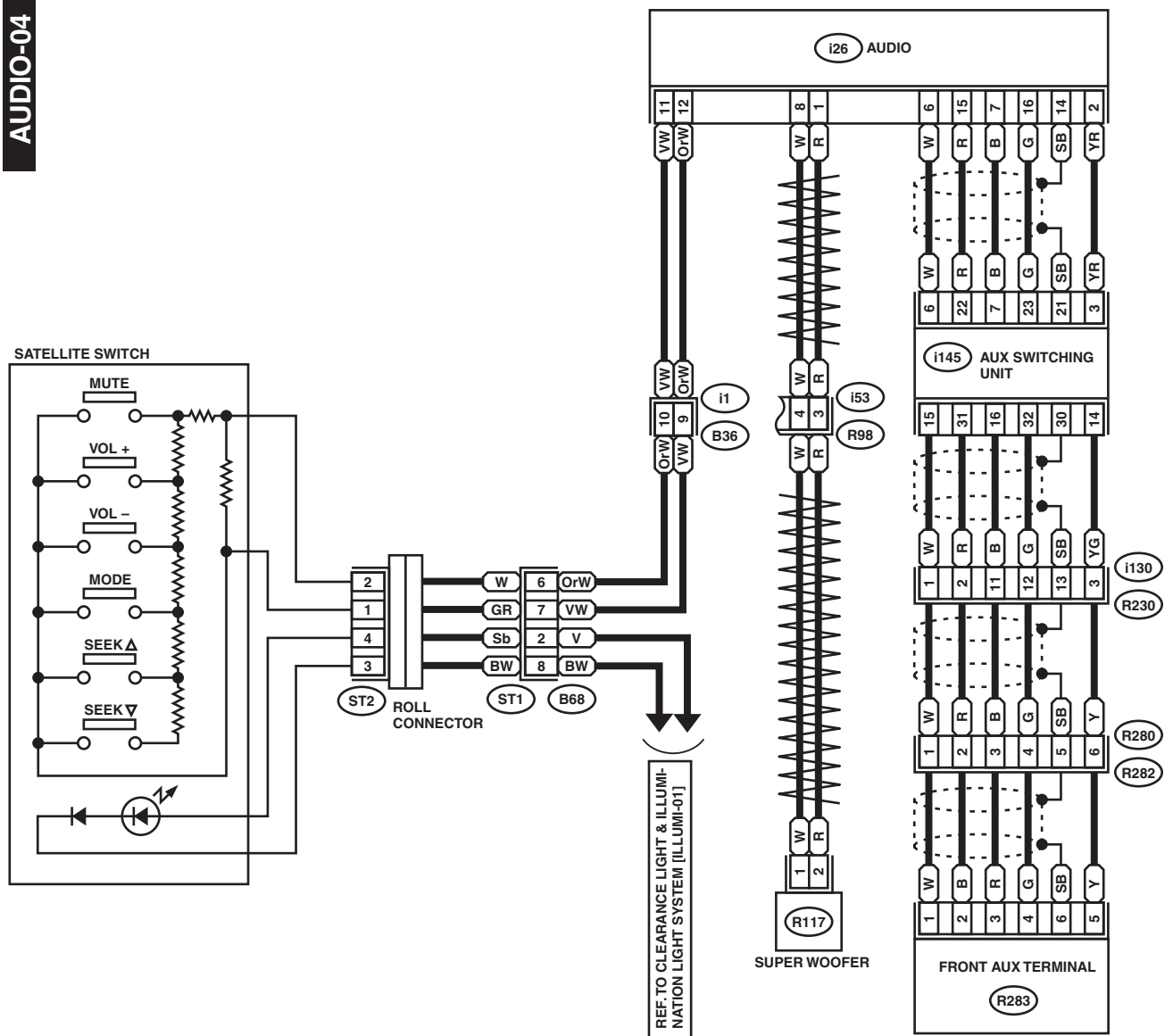
Audio System

WIRING SYSTEM

2. WITH REAR ENTERTAINMENT

AUDIO-04

AUDIO-04

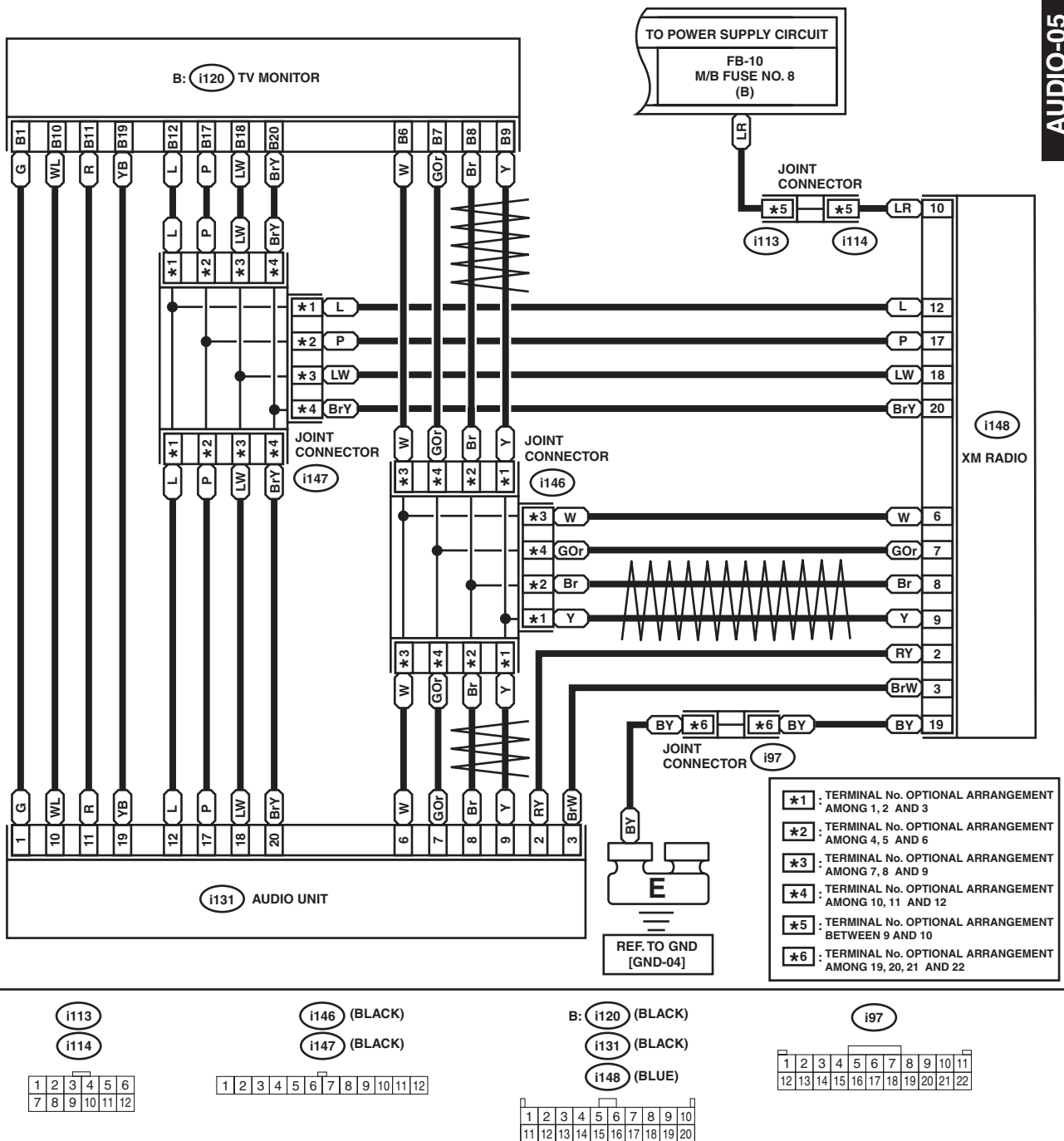


WI-16072

3. WITH XM RADIO

AUDIO-05

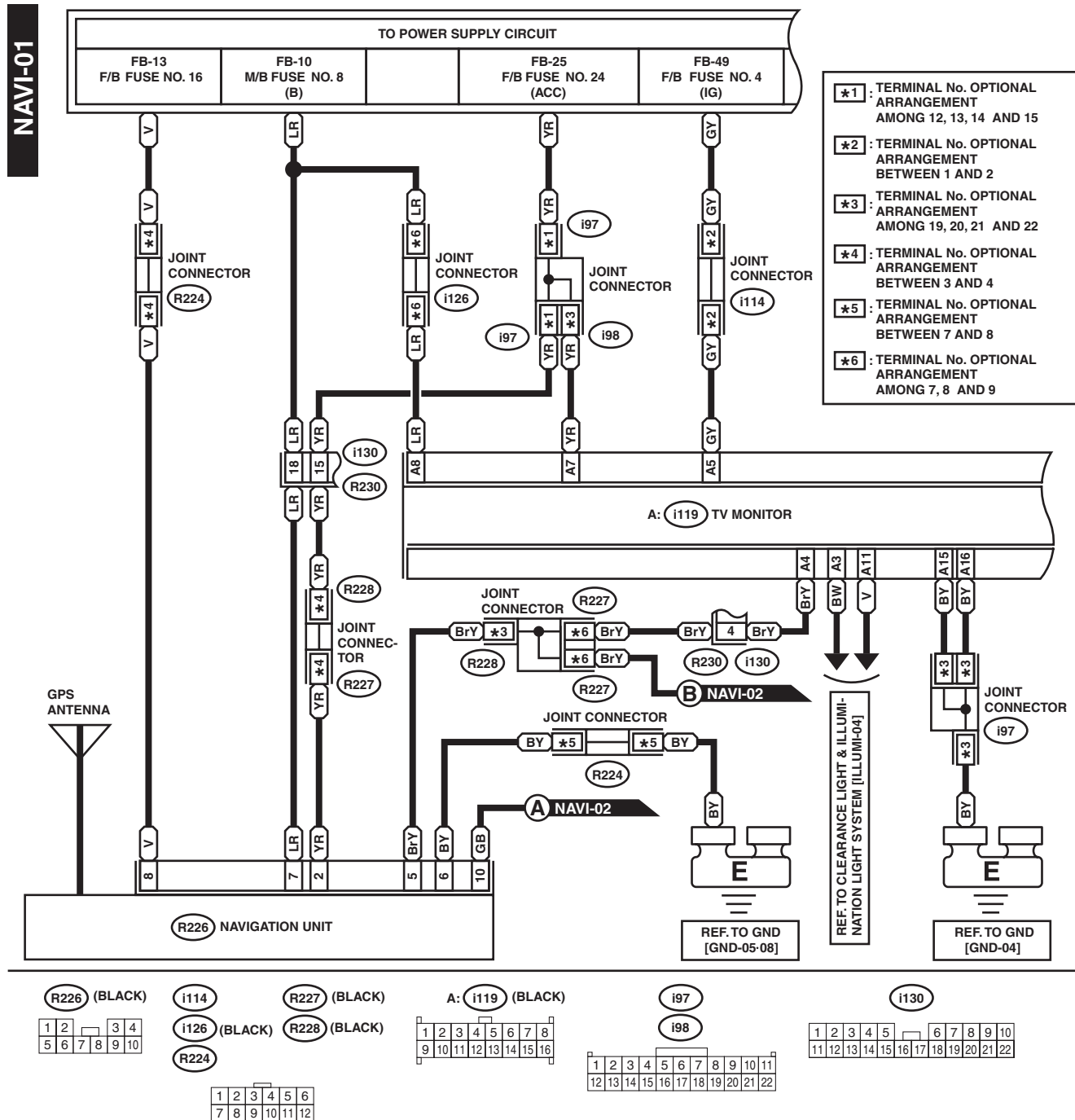
AUDIO-05

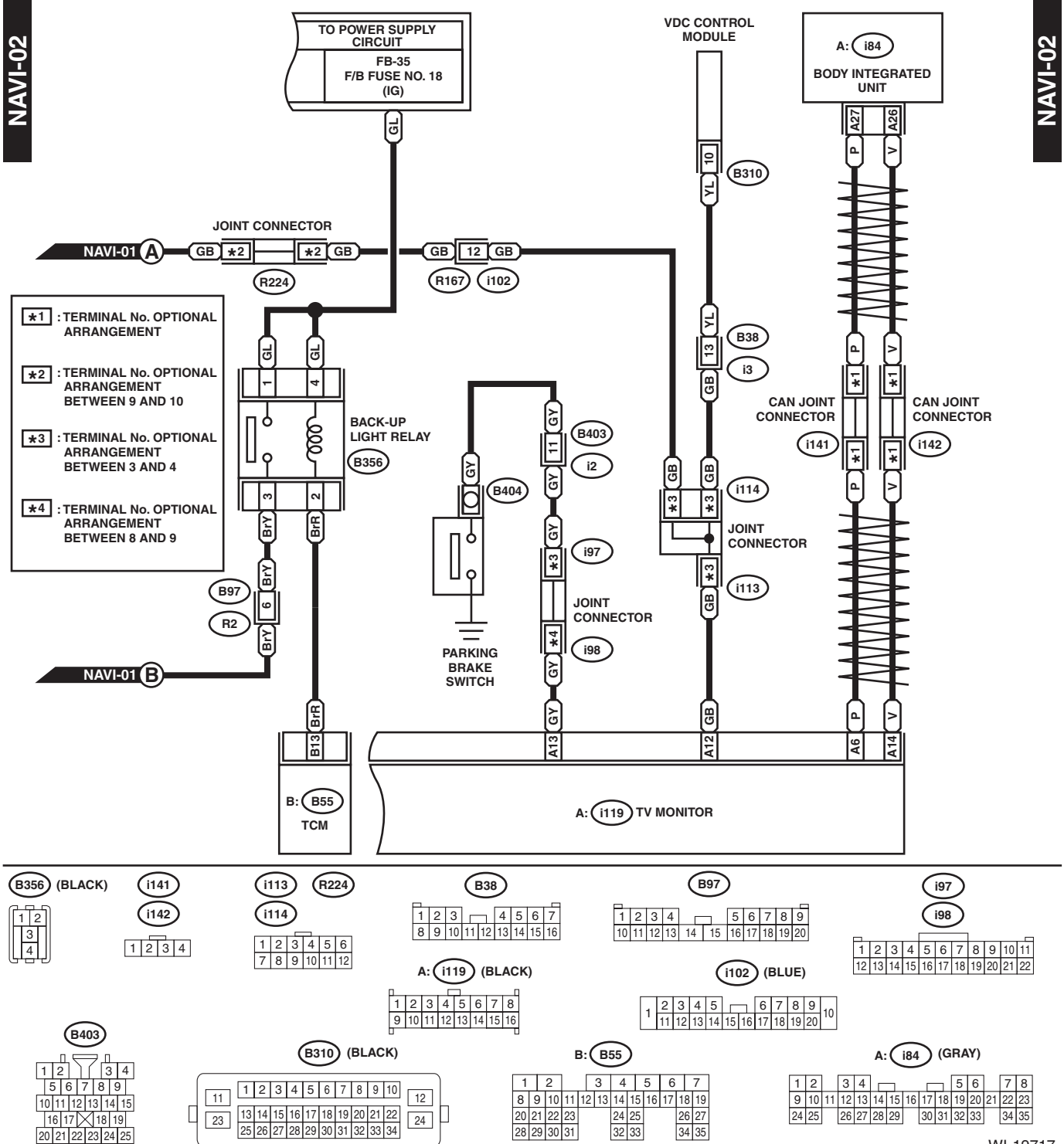


WI-16073

37.Navigation System

A: WIRING DIAGRAM



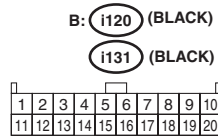
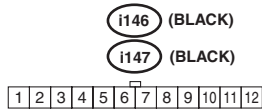
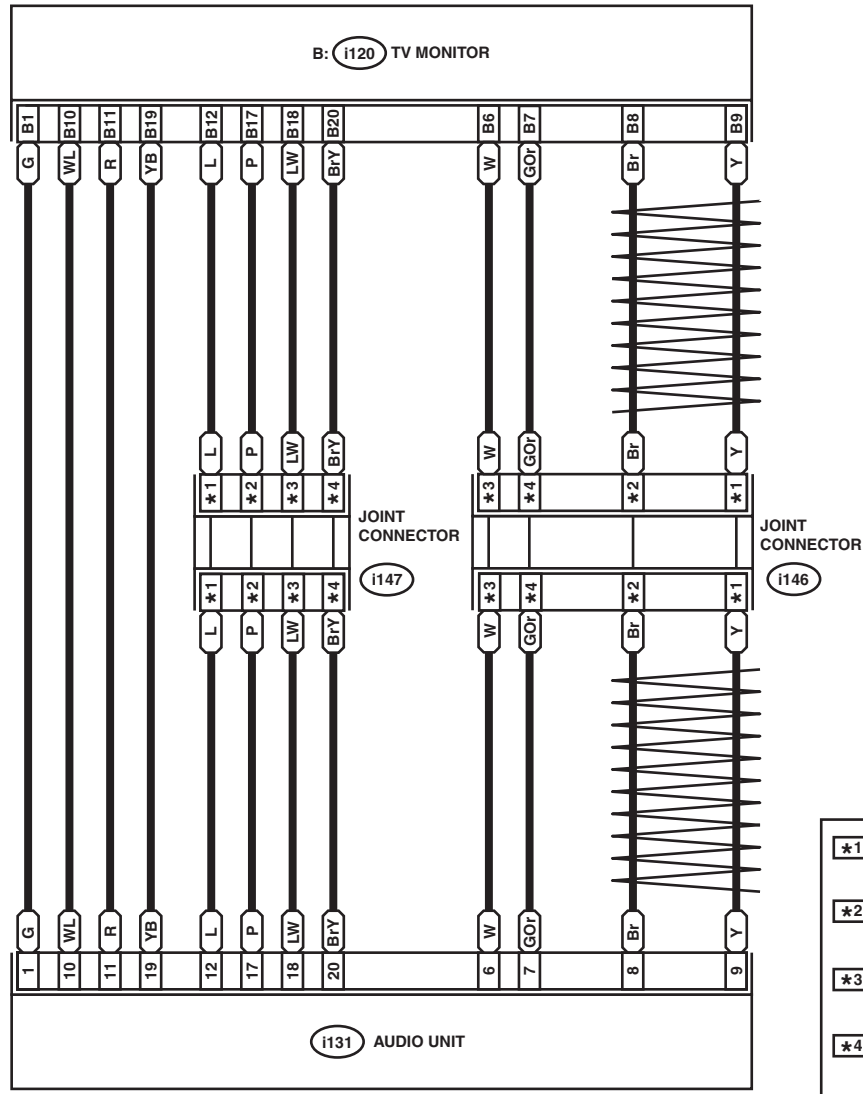


Navigation System

WIRING SYSTEM

NAVI-03

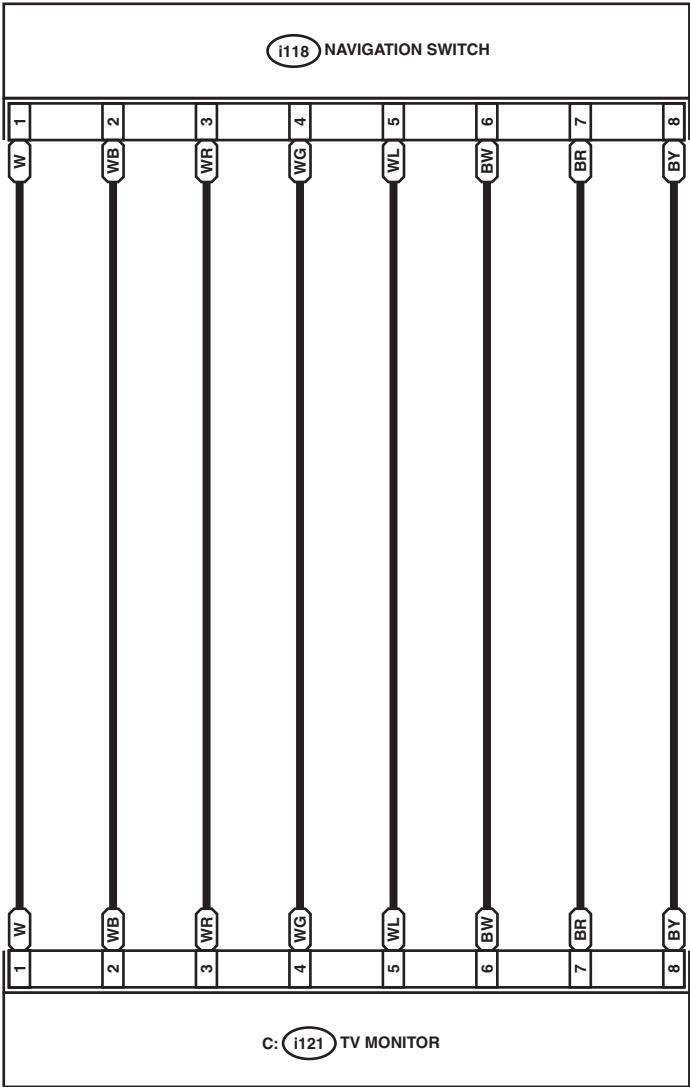
NAVI-03



WI-16076

NAVI-04

NAVI-04



i118 (BLACK)

C: i121 (BLACK)

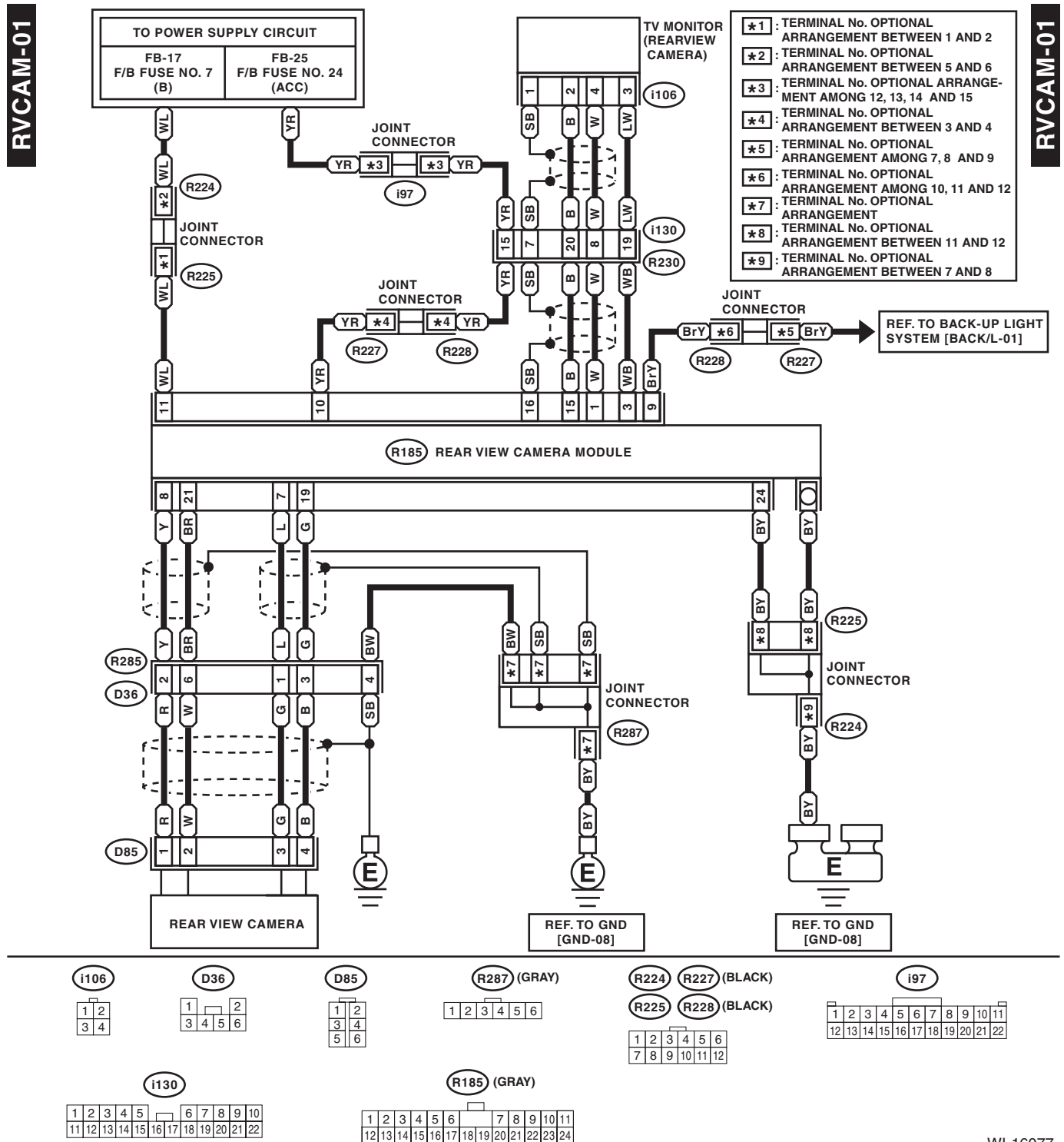
1	2	3	4
5	6	7	8

Rearview Camera System

WIRING SYSTEM

38.Rearview Camera System

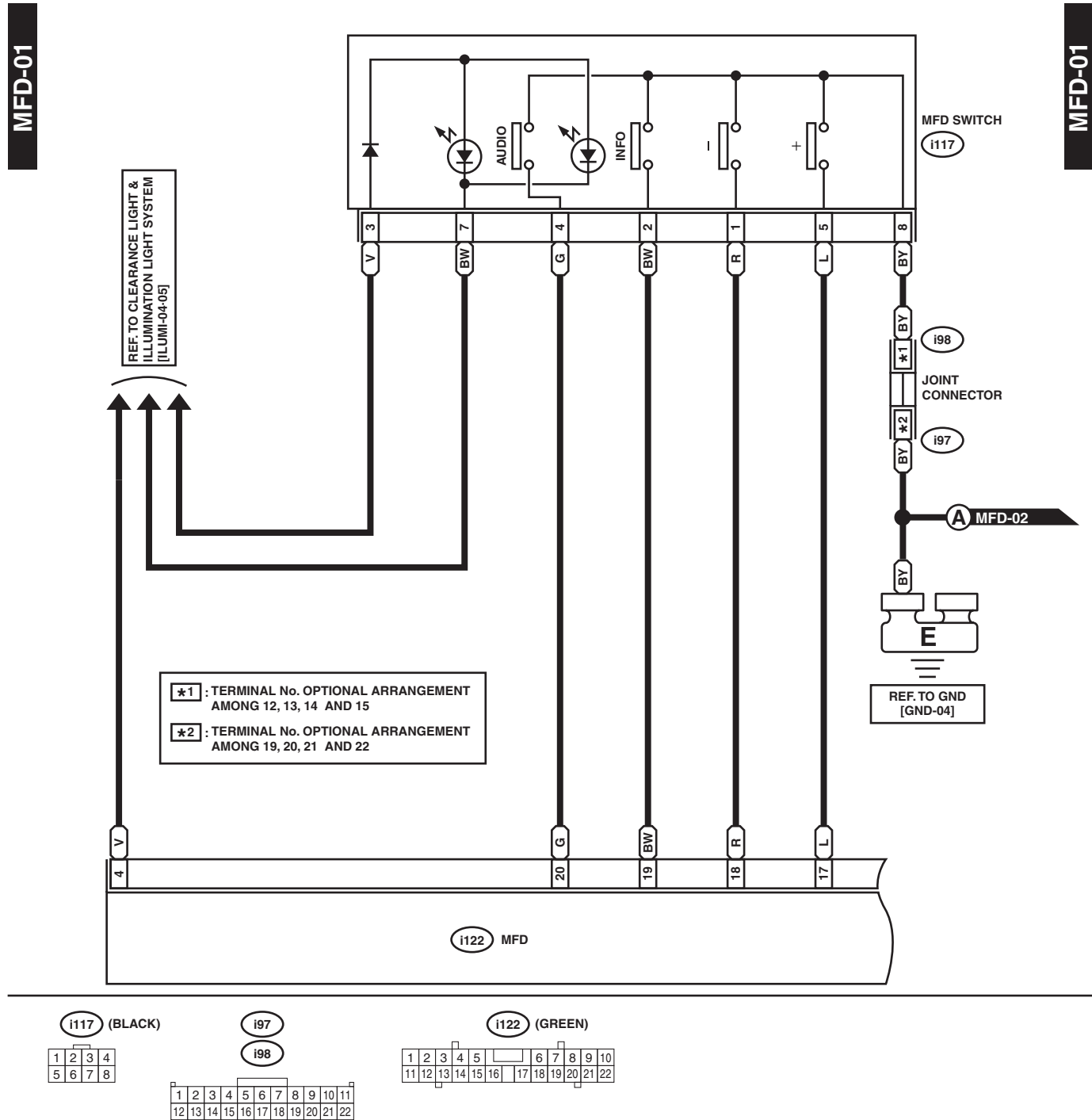
A: WIRING DIAGRAM



WI-16077

39. Multi-function Display (MFD) System

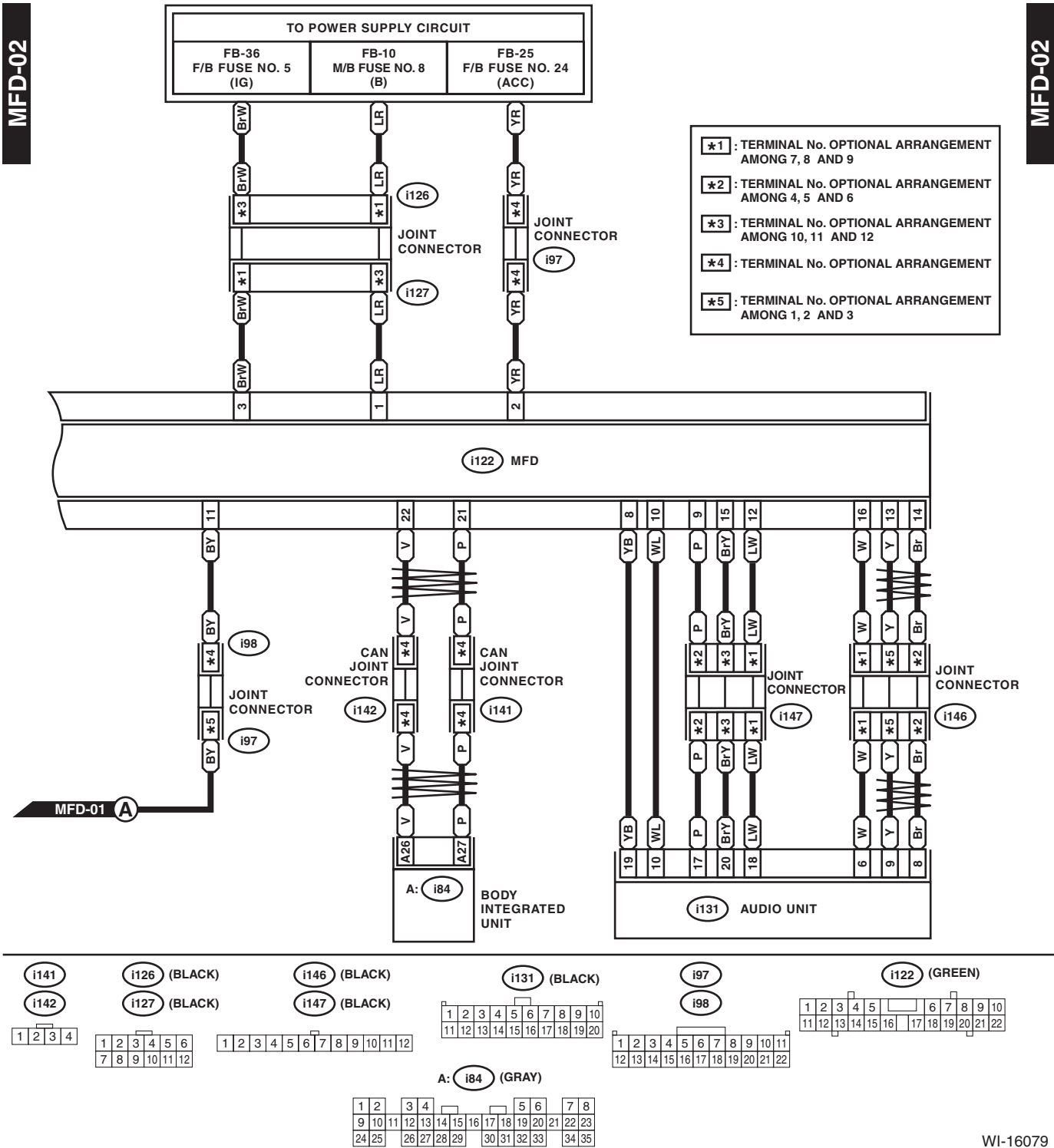
A: WIRING DIAGRAM



WI-16078

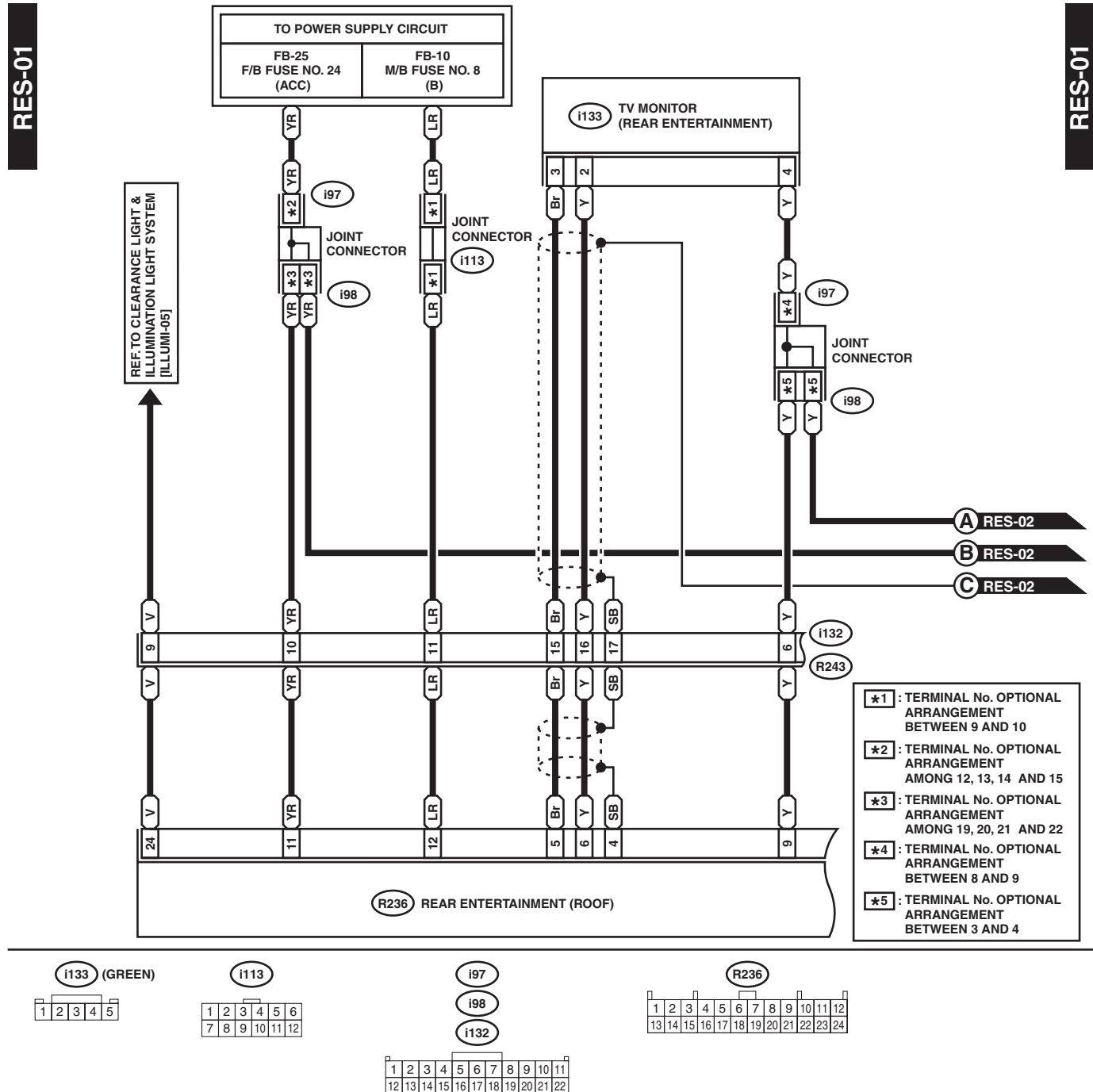
Multi-function Display (MFD) System

WIRING SYSTEM



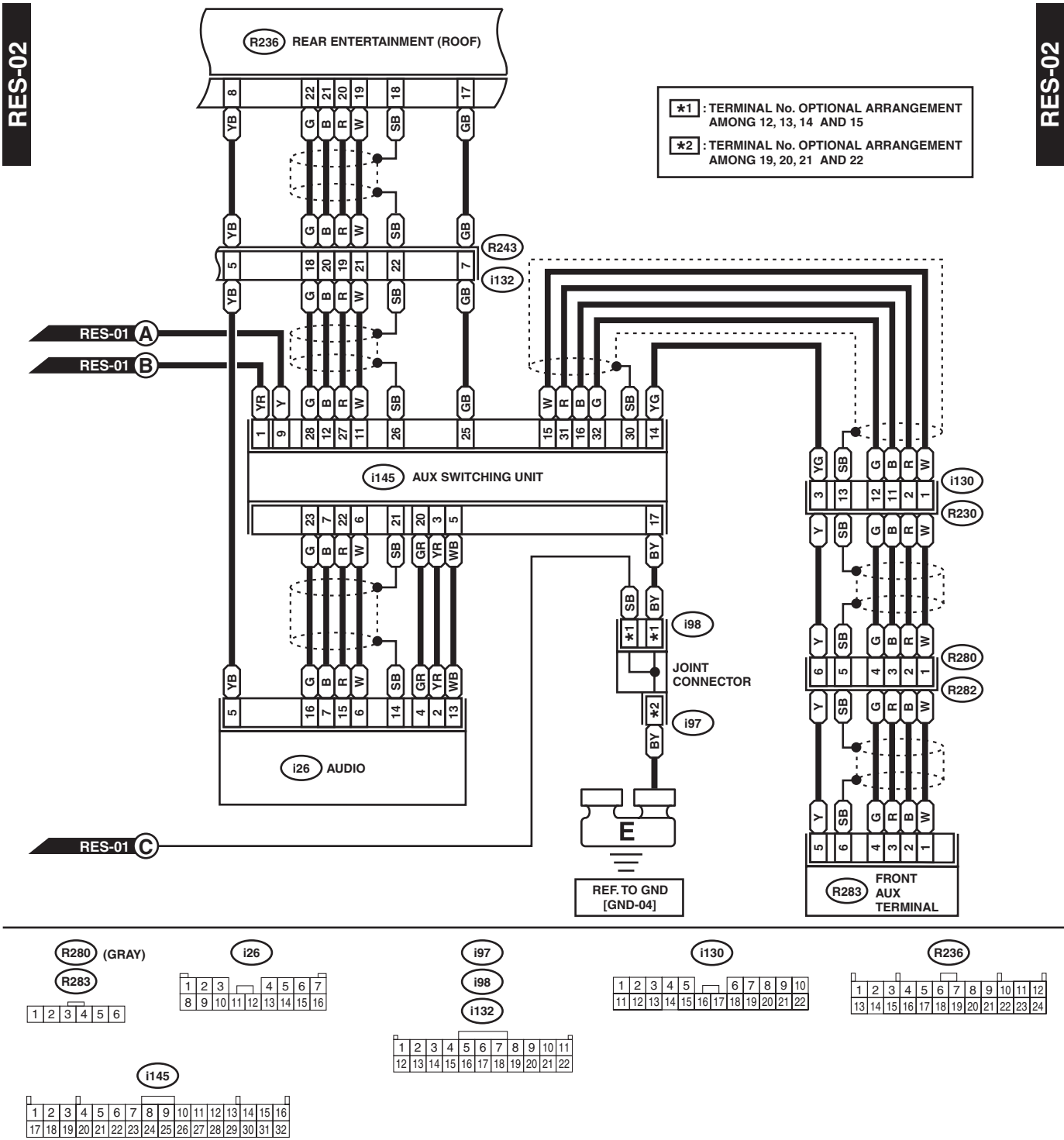
40.Rear Entertainment System

A: WIRING DIAGRAM



Rear Entertainment System

WIRING SYSTEM



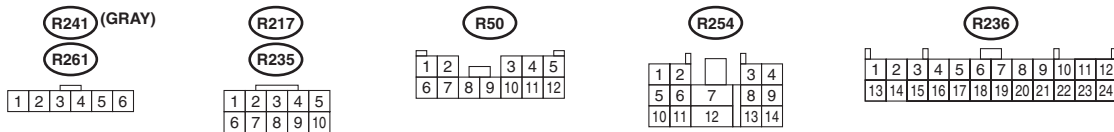
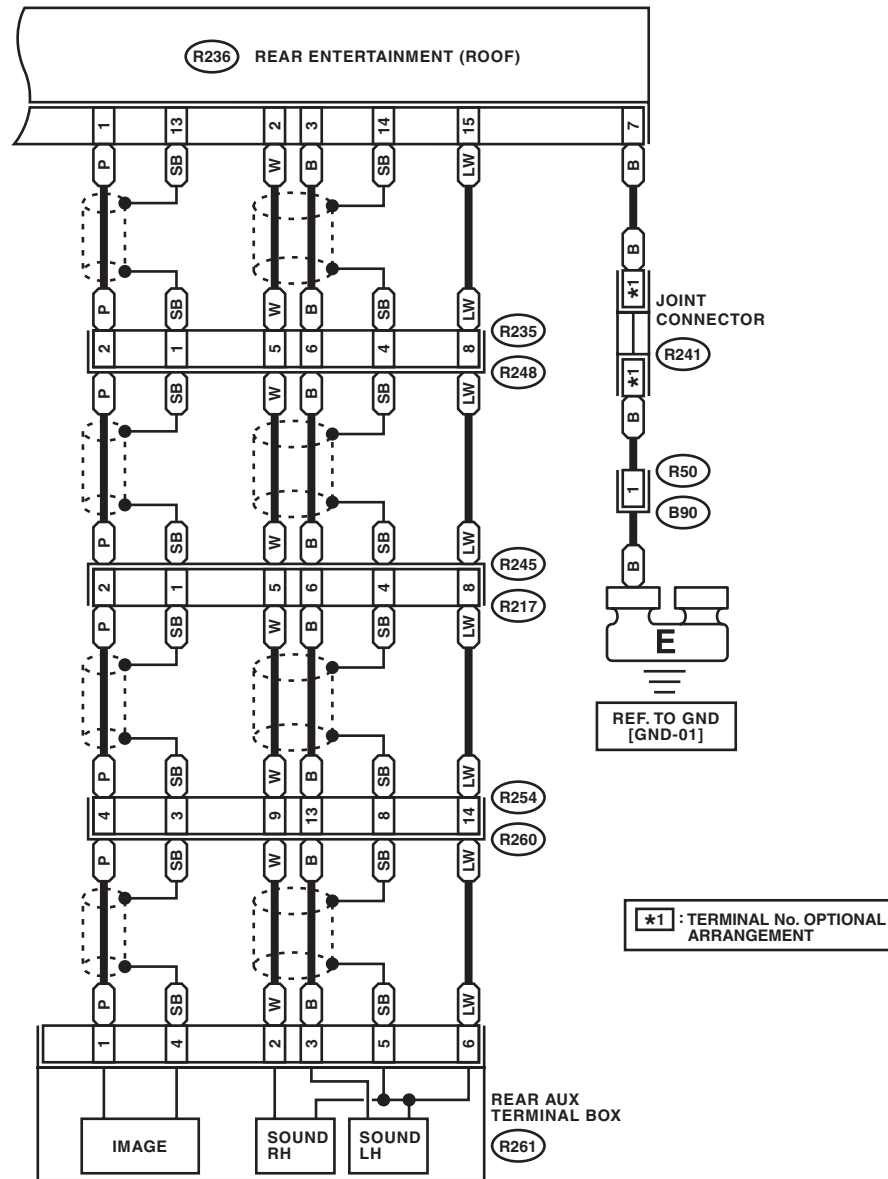
WI-16081

Rear Entertainment System

WIRING SYSTEM

RES-03

RES-03



WI-16082

Front Accessory Power Supply Socket System

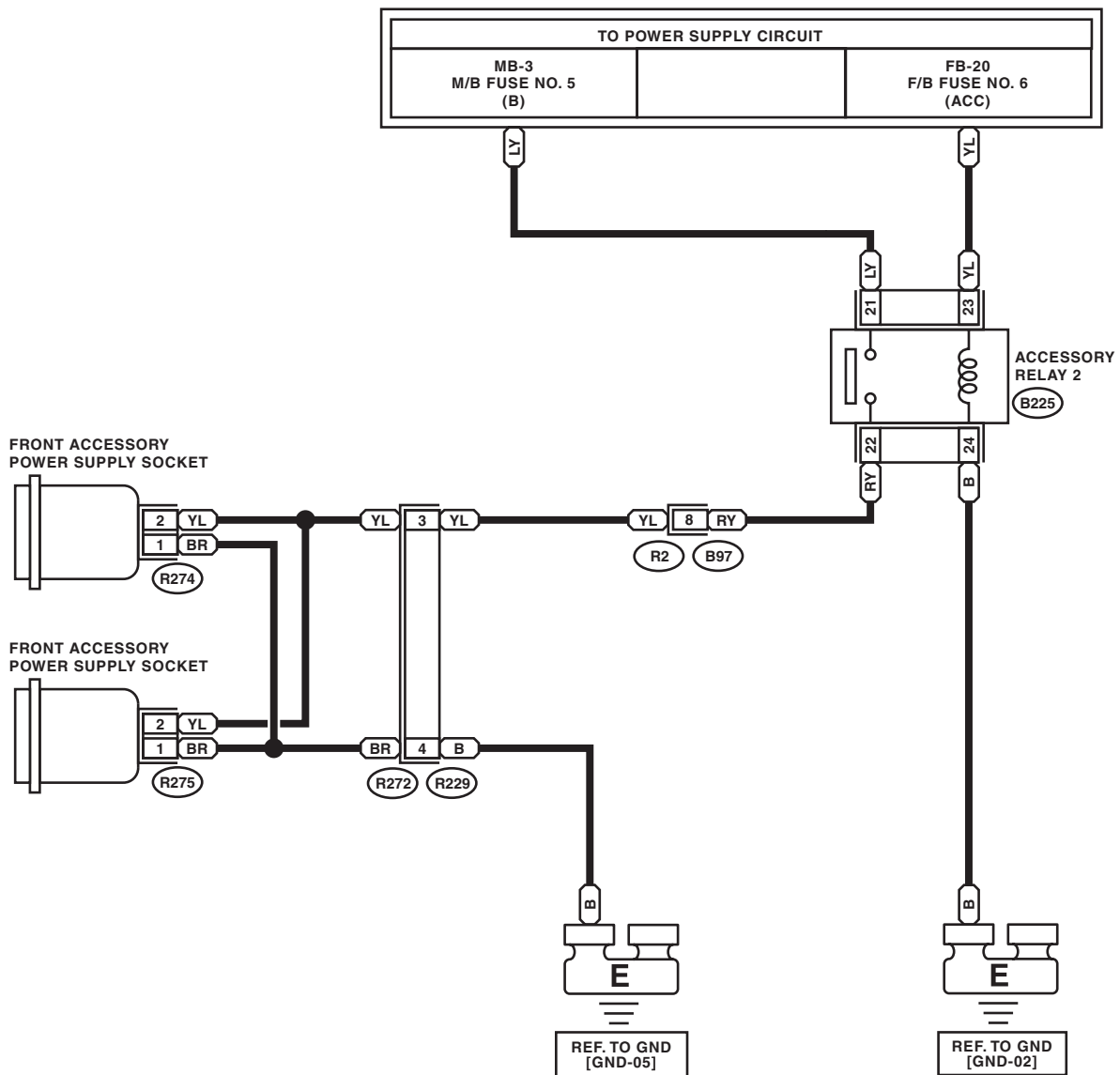
WIRING SYSTEM

41.Front Accessory Power Supply Socket System

A: WIRING DIAGRAM

FAPS-01

FAPS-01



(R274)

(R275)

1
2

(R229)

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

(B97)

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

(B225) (BLACK)

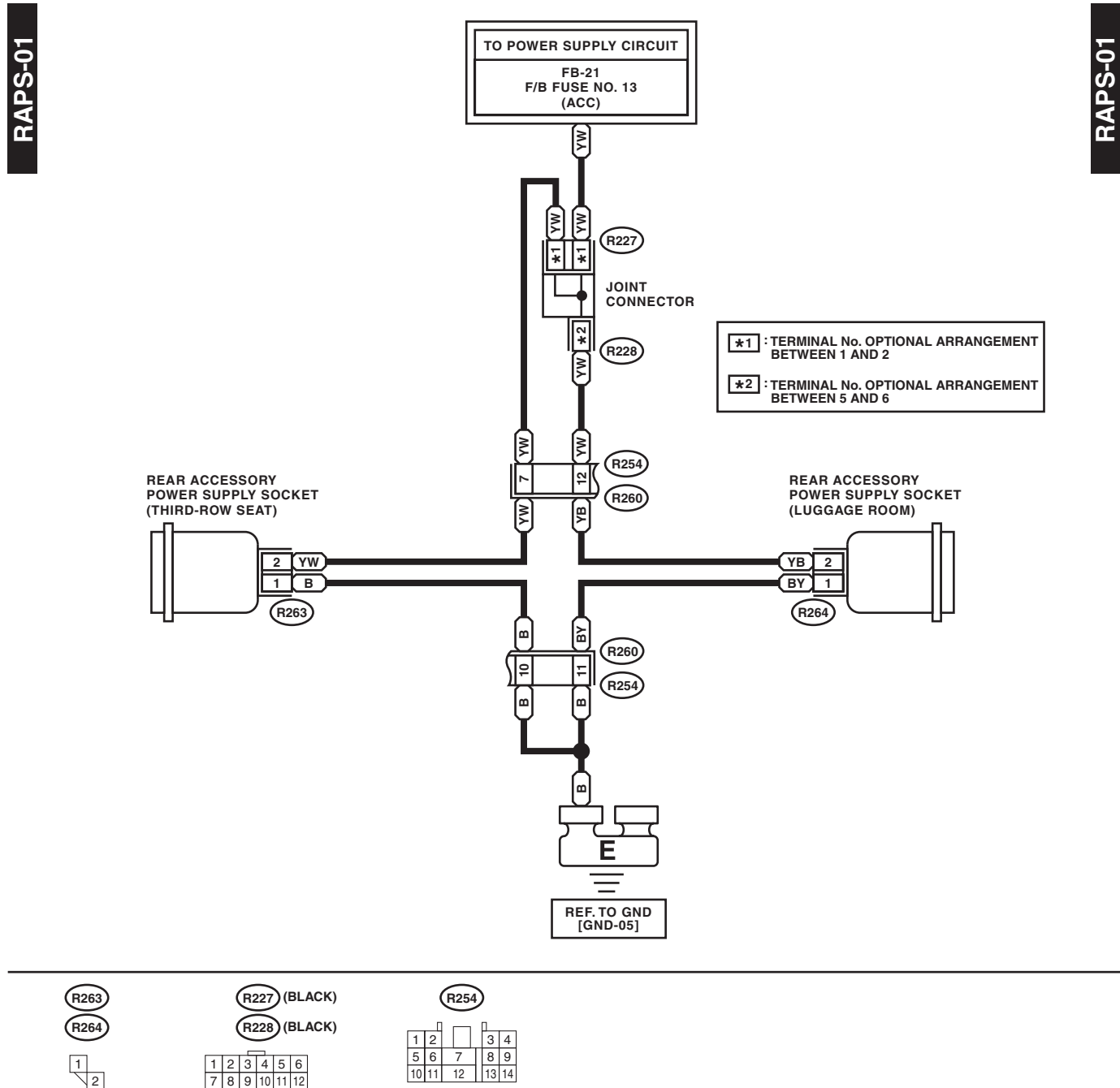
1	2	9	13	17	21
3	4	10	14	18	22
5	6	11	15	19	23
7	8	12	16	20	24
25	29	33	37		
26	30	34	38		
27	31	35	39	40	

RELAY BLOCK

WI-16083

42.Rear Accessory Power Supply Socket System

A: WIRING DIAGRAM



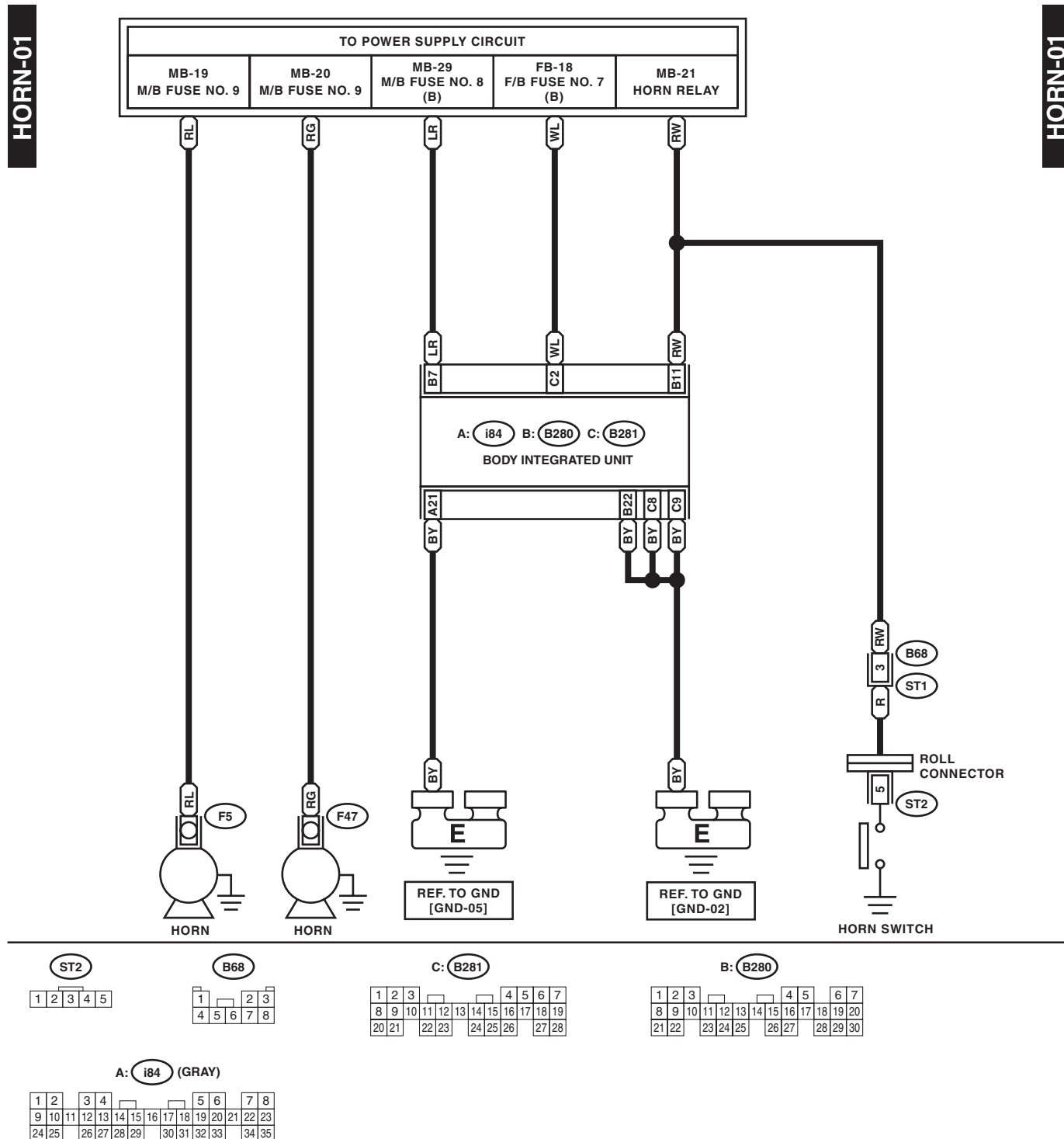
WI-16084

Horn System

WIRING SYSTEM

43.Horn System

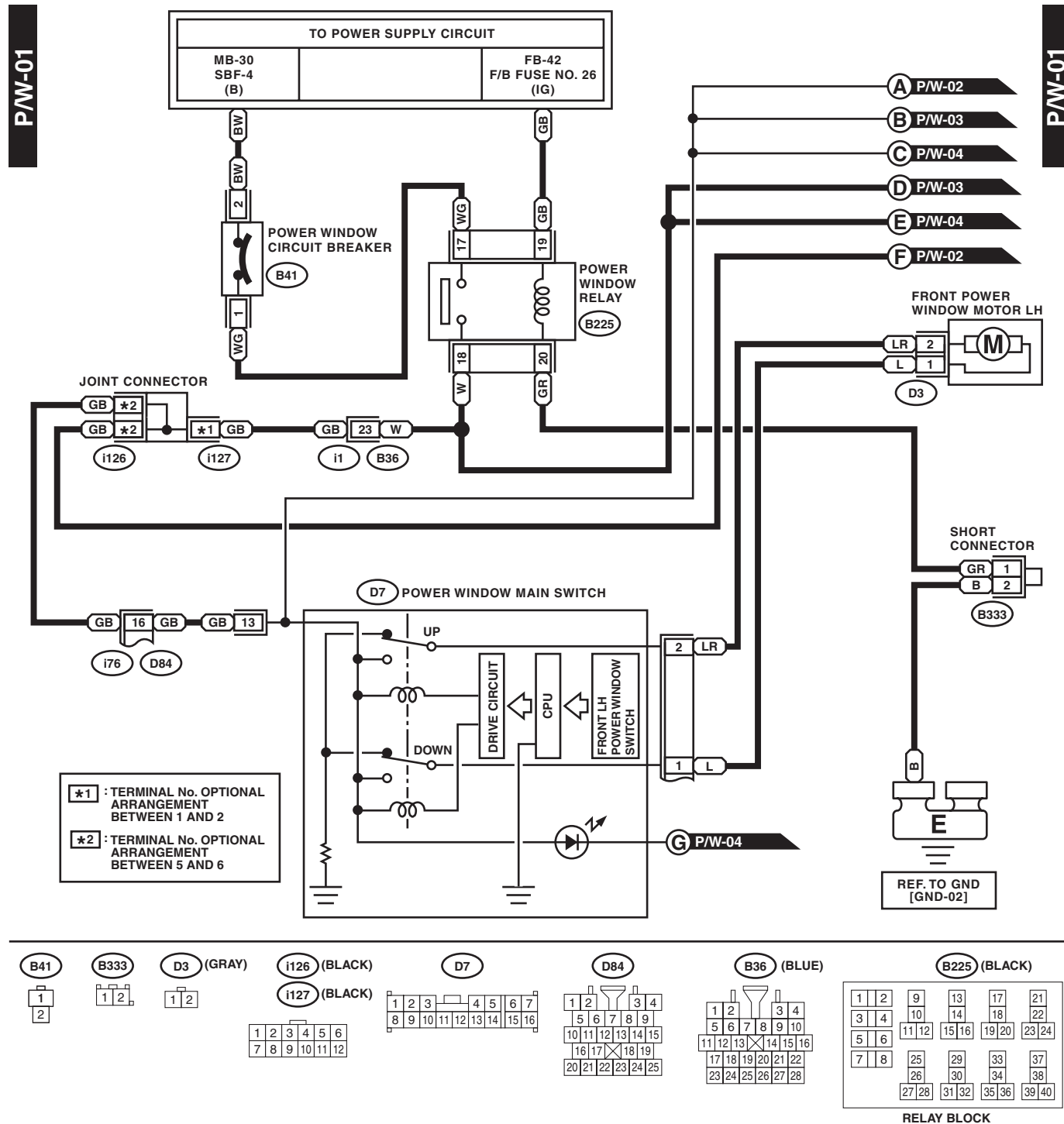
A: WIRING DIAGRAM



WI-16085

44. Power Window System

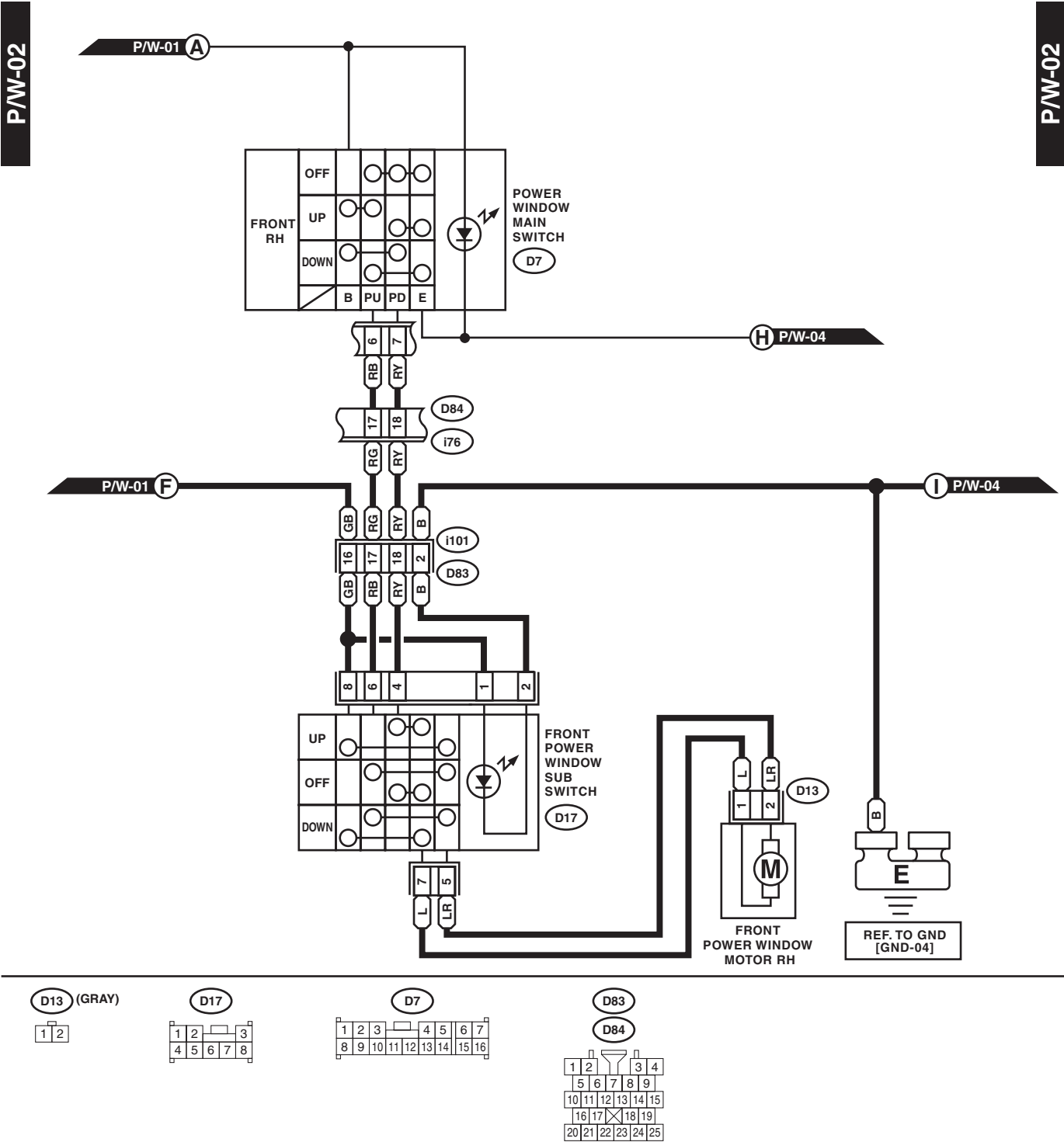
A: WIRING DIAGRAM



WI-16086

Power Window System

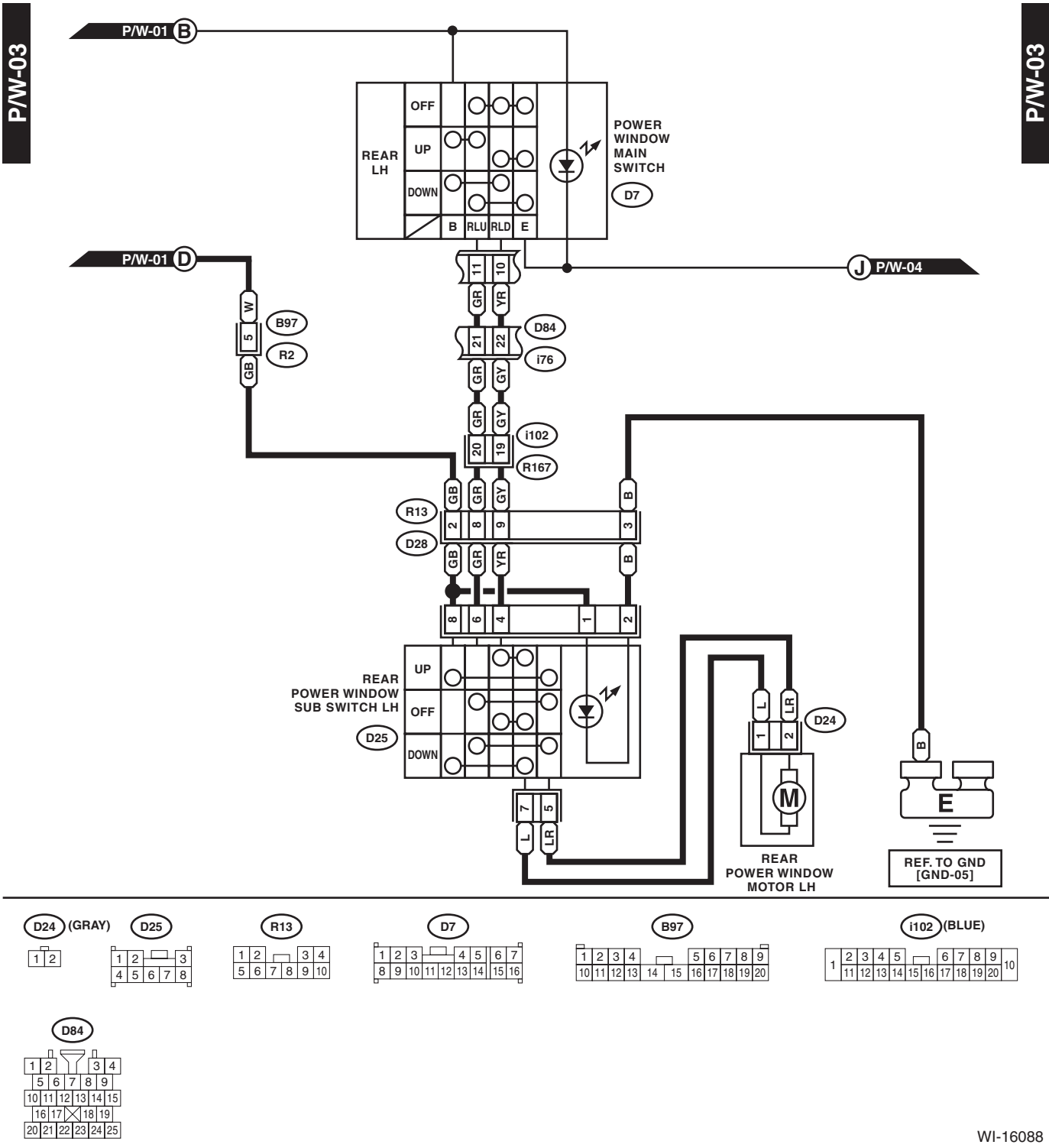
WIRING SYSTEM



WI-16087

Power Window System

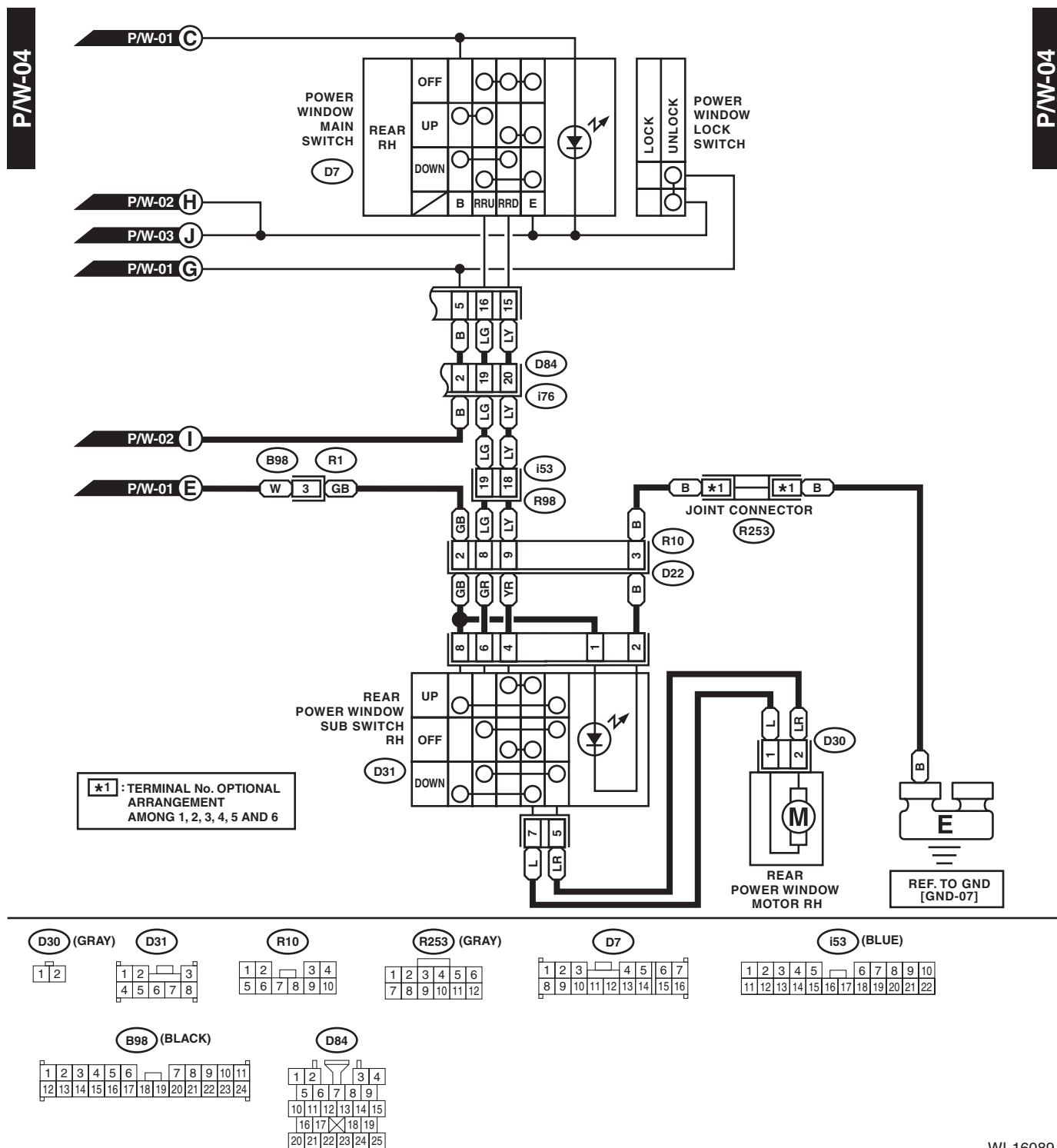
WIRING SYSTEM



WI-16088

Power Window System

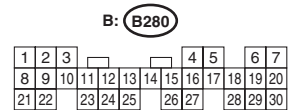
WIRING SYSTEM



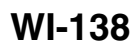
WI-16089

A: WIRING DIAGRAM

R/DEF-01

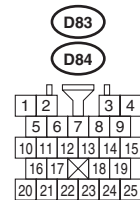
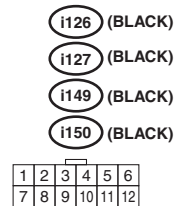
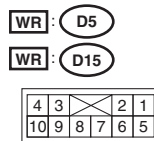
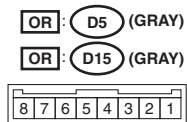
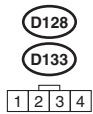
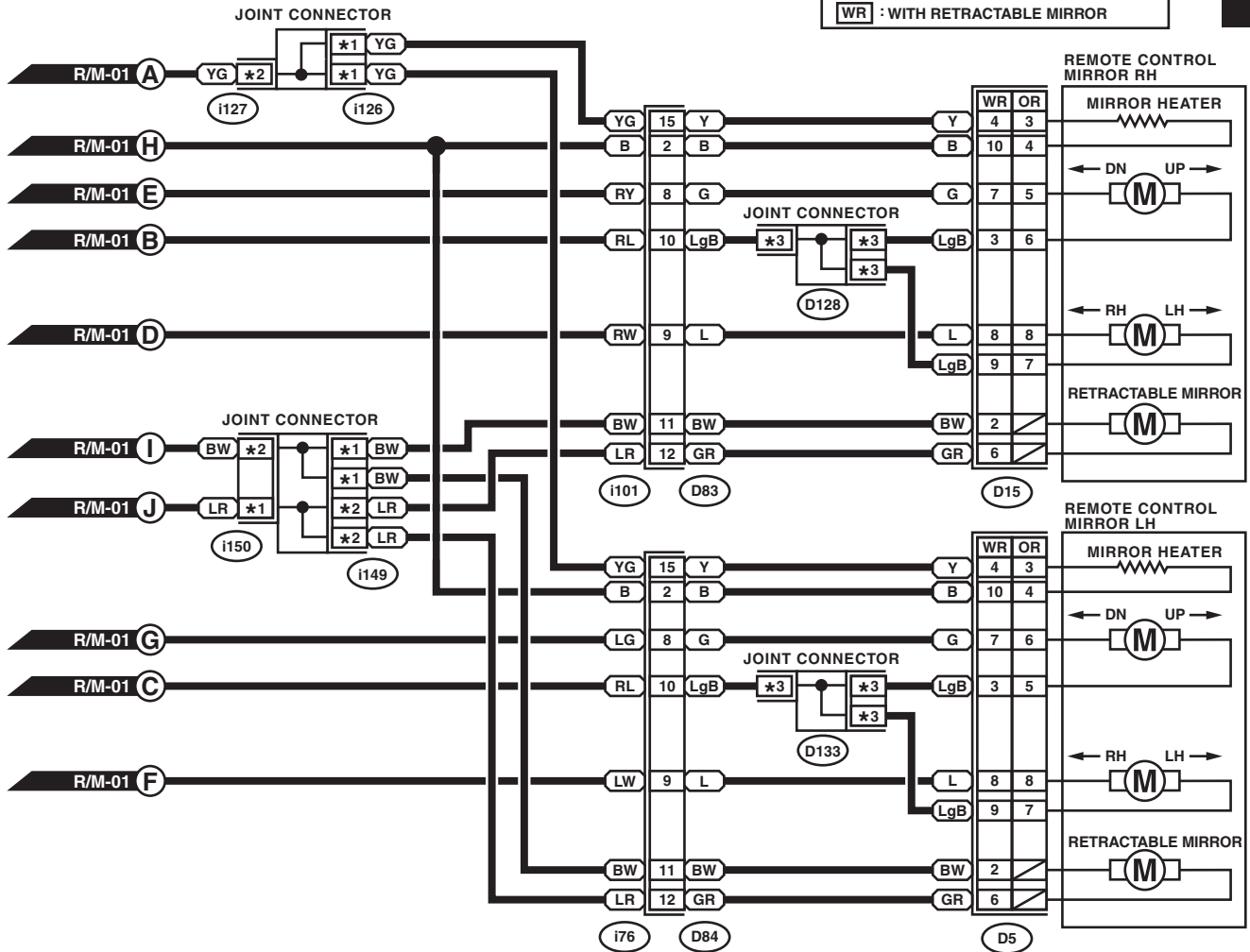
**WI-137**

A: WIRING DIAGRAM



R/M-02

R/M-02

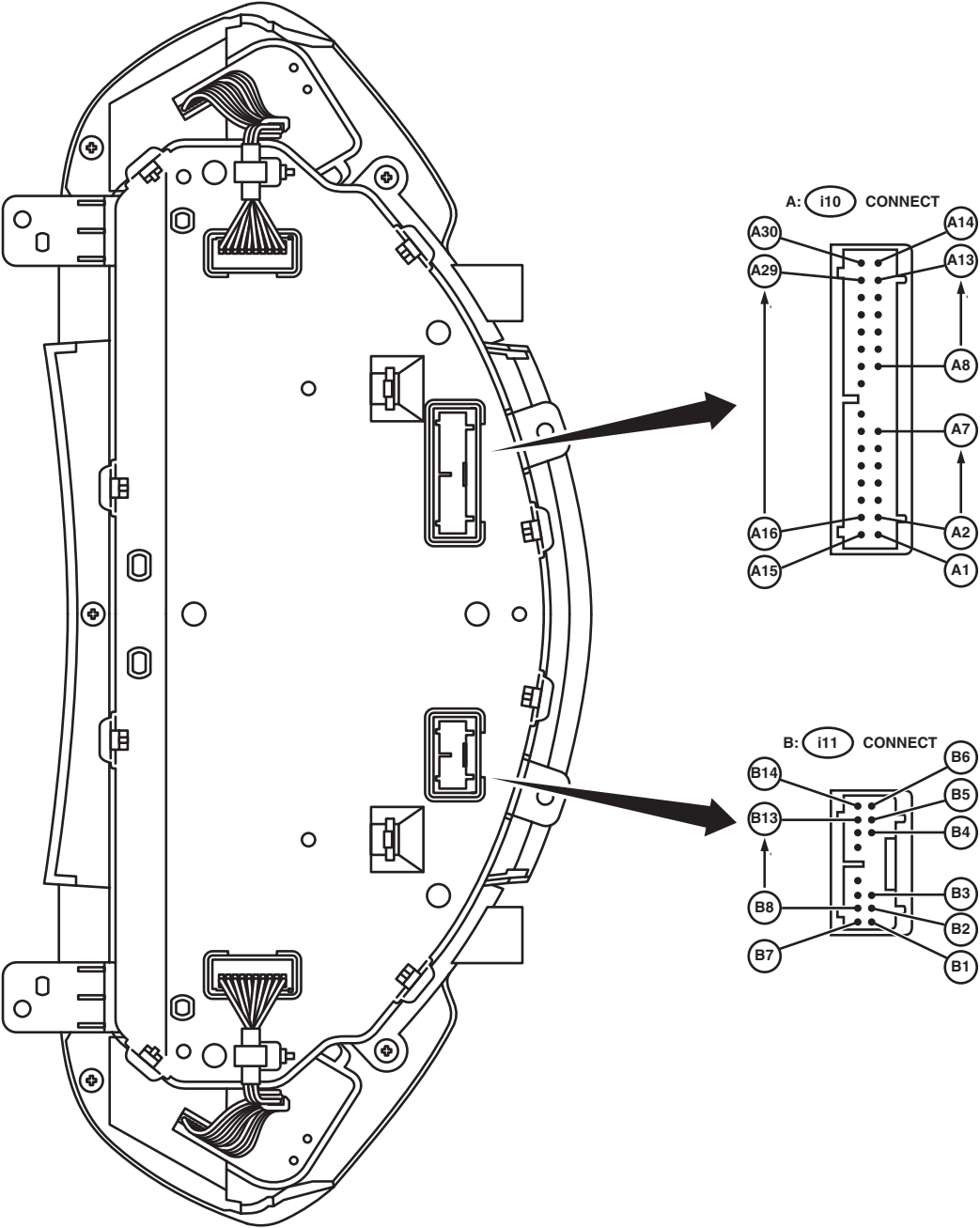


47. Combination Meter System

A: WIRING DIAGRAM

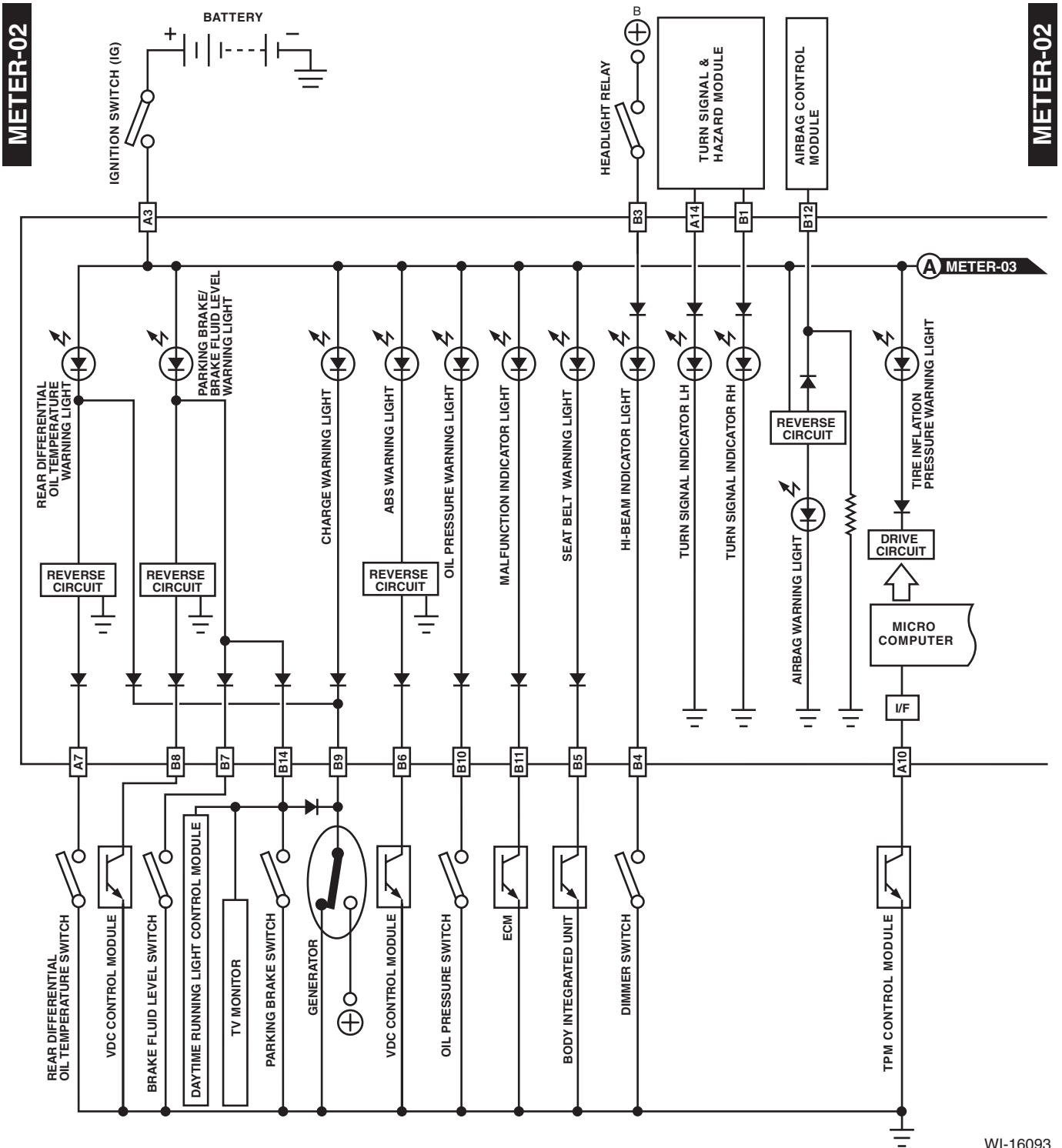
METER-01

METER-01



Combination Meter System

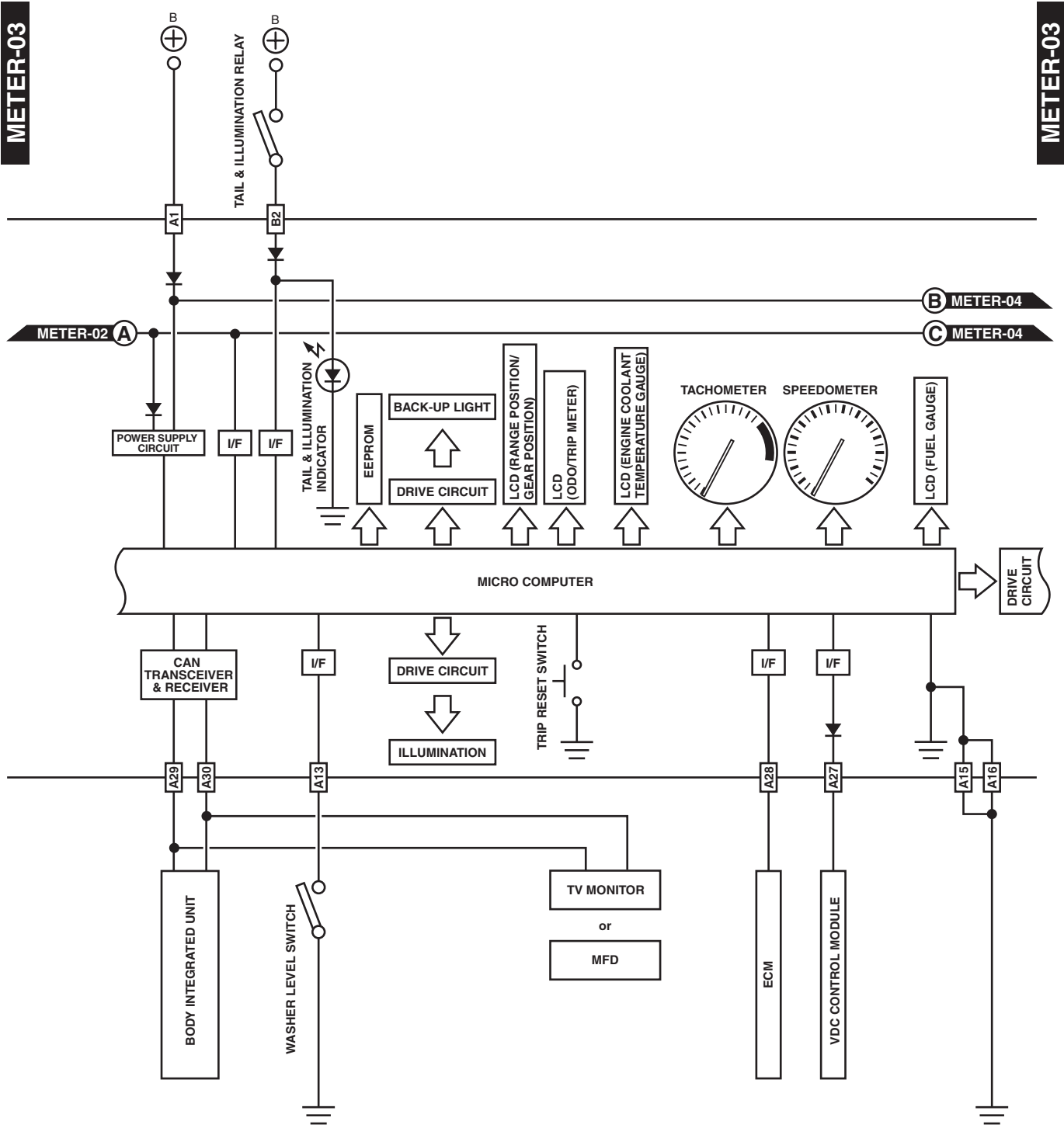
WIRING SYSTEM



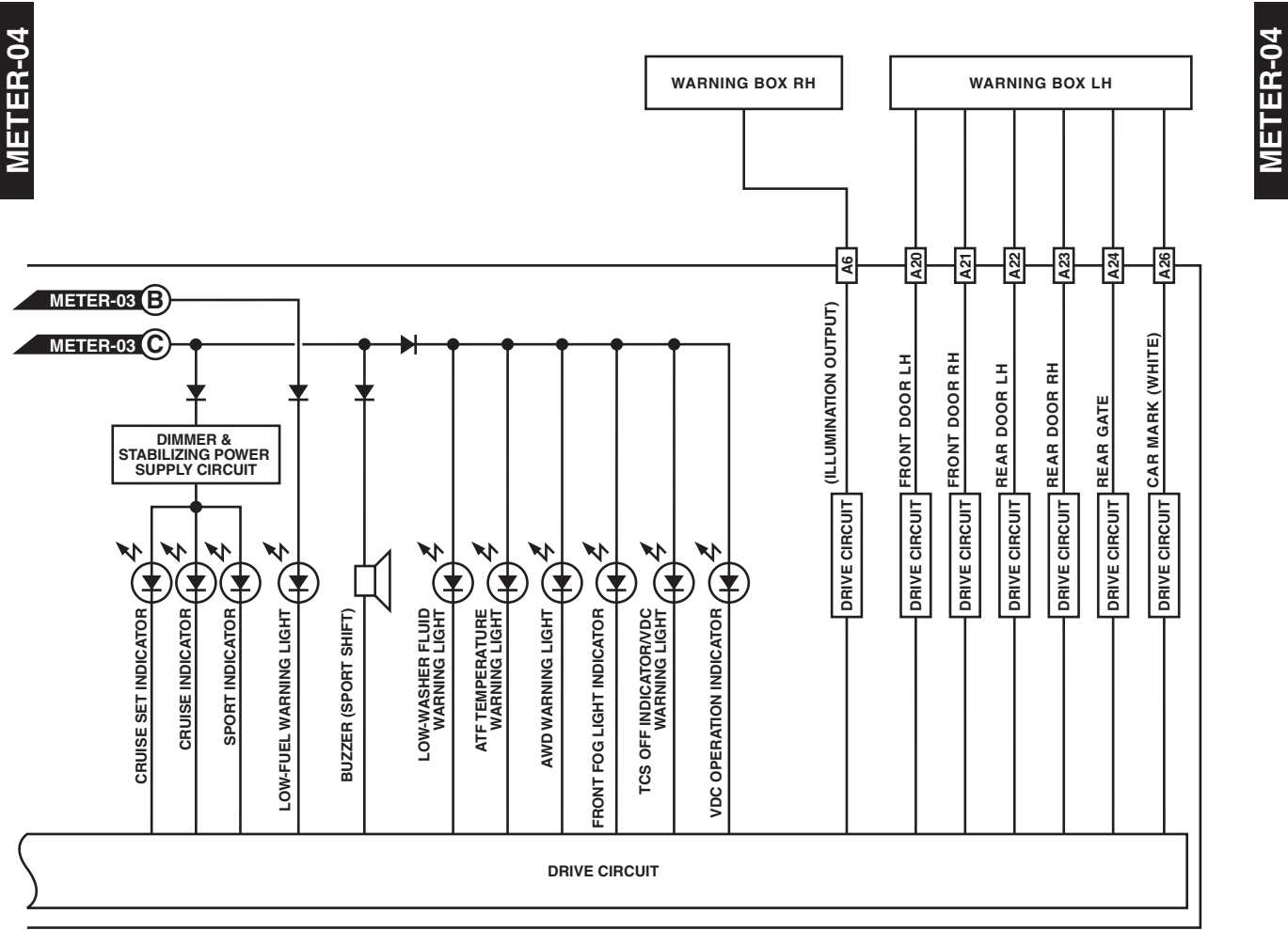
WI-16093

Combination Meter System

WIRING SYSTEM



WI-16094



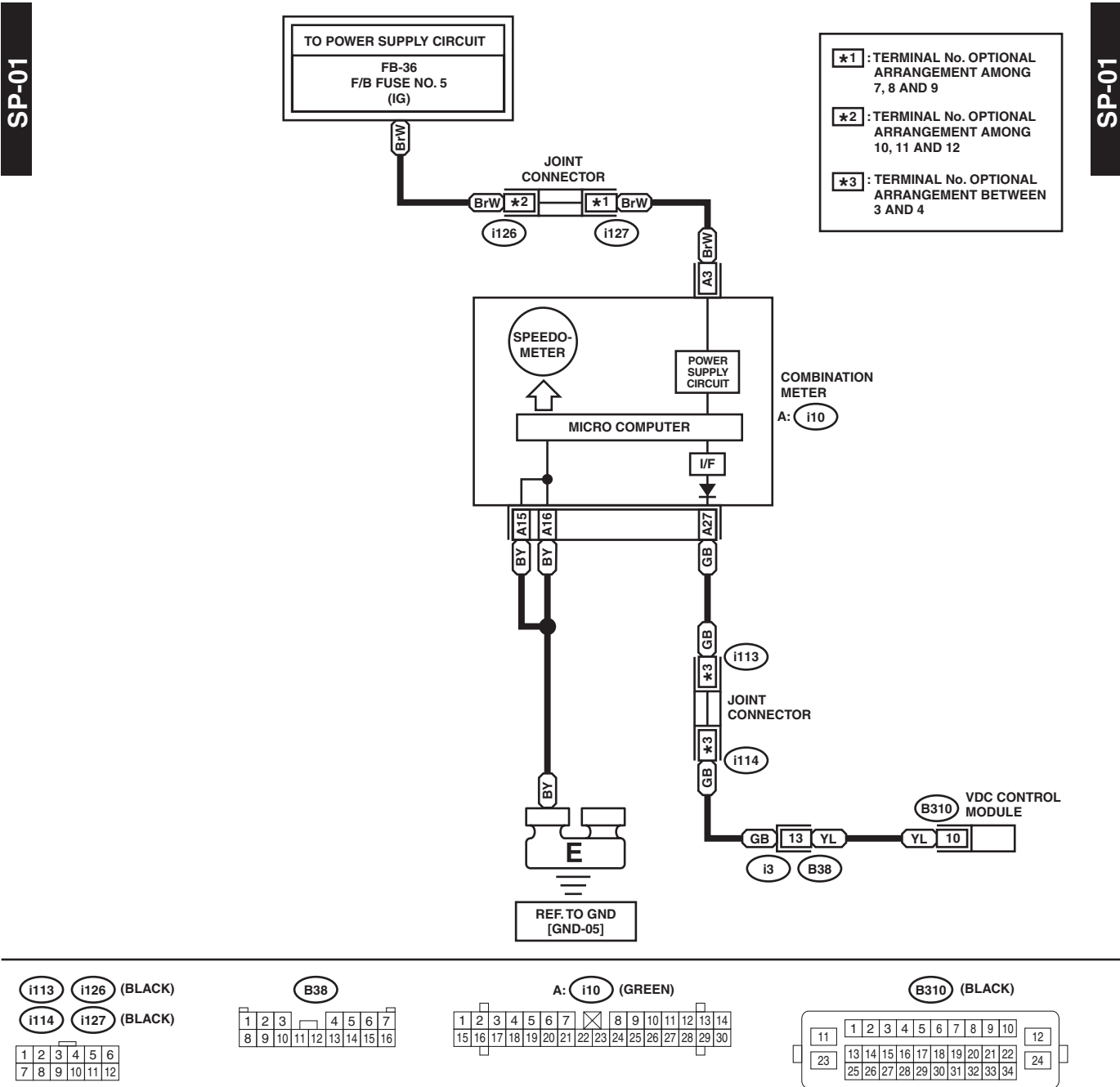
WI-16095

Speedometer System

WIRING SYSTEM

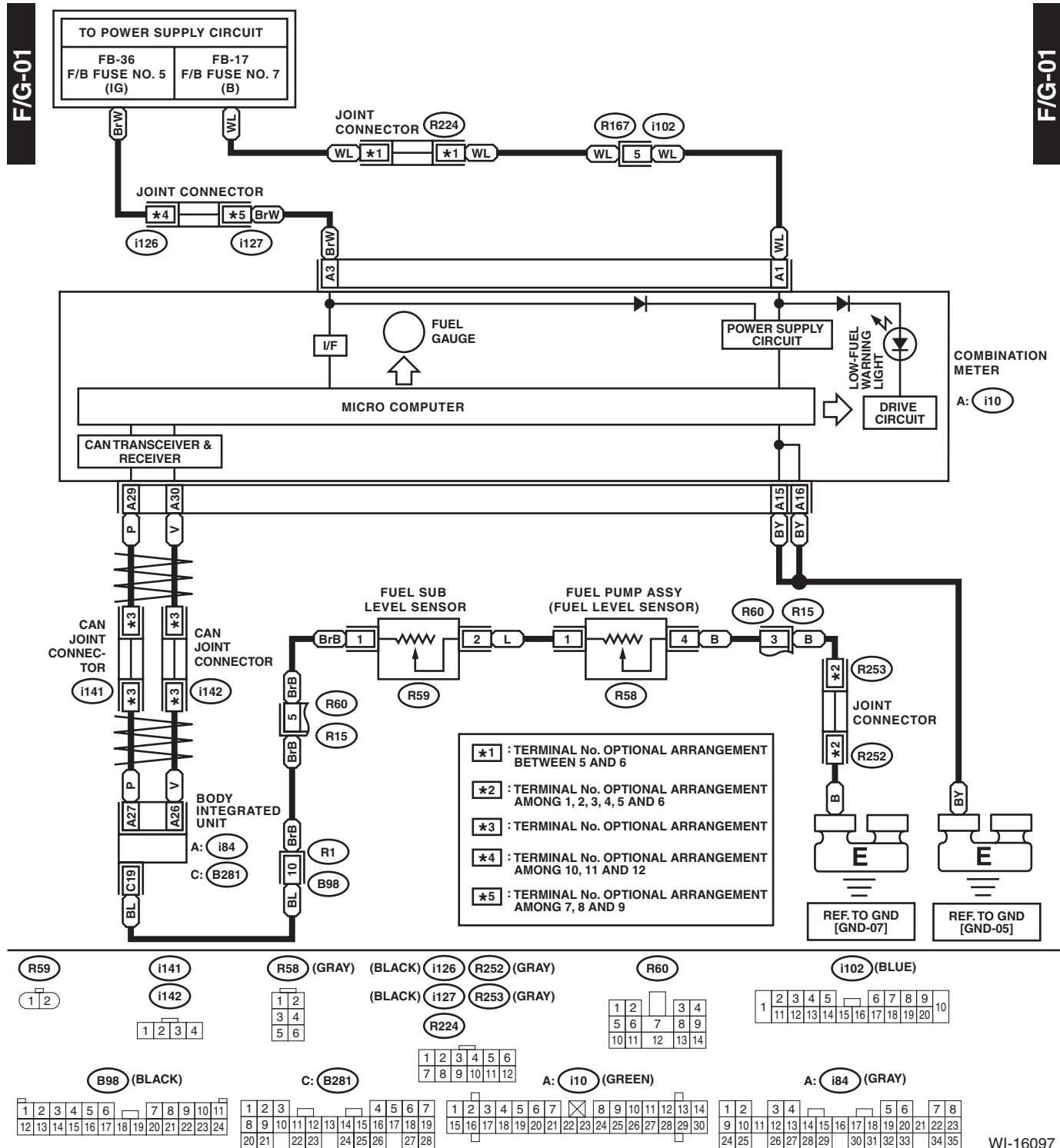
48.Speedometer System

A: WIRING DIAGRAM



49. Fuel Gauge System

A: WIRING DIAGRAM

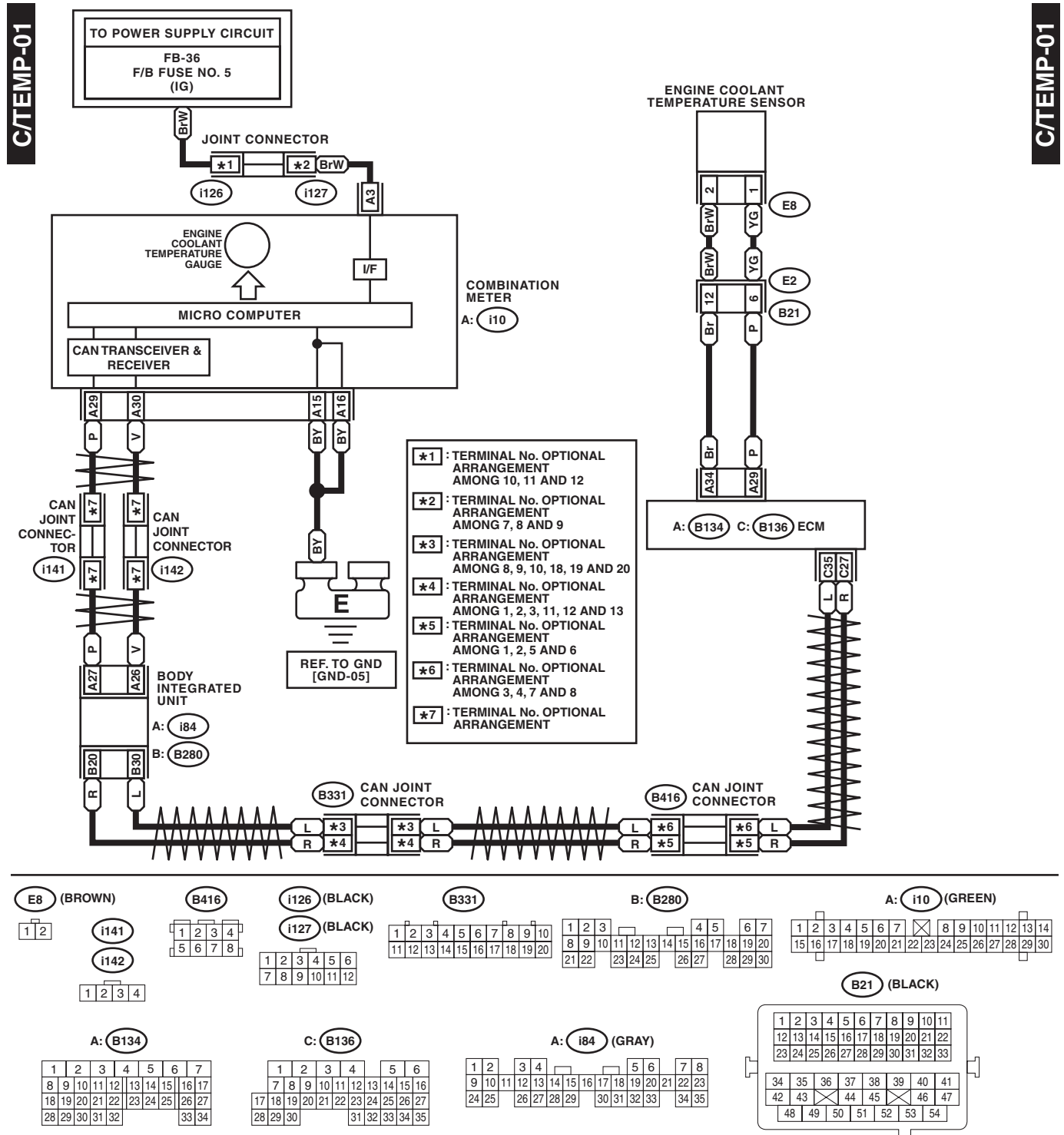


Coolant Temperature System

WIRING SYSTEM

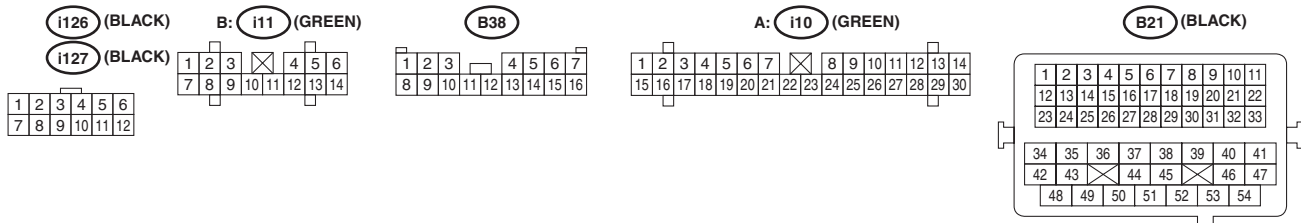
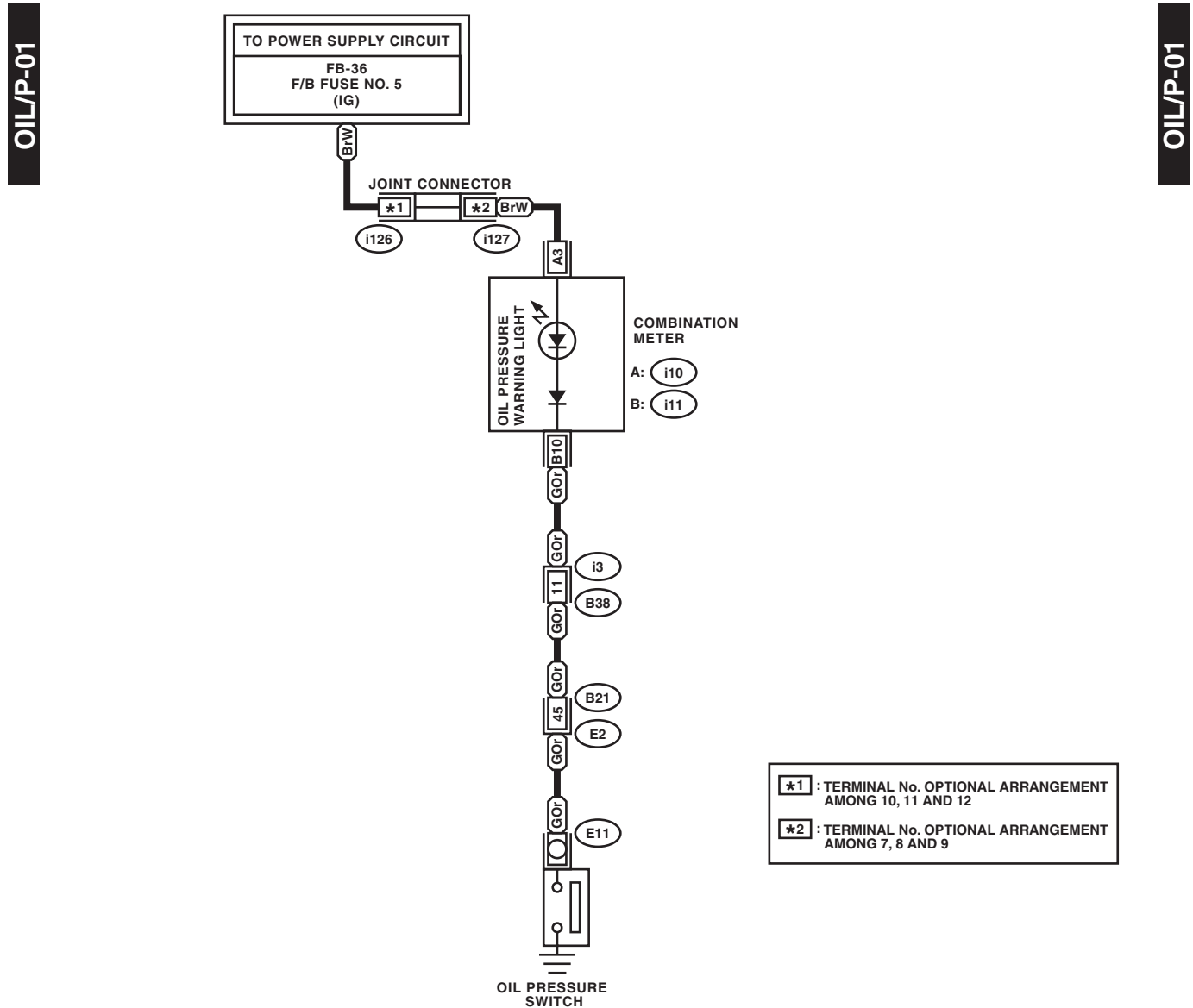
50.Coolant Temperature System

A: WIRING DIAGRAM



51.Oil Pressure Warning Light System

A: WIRING DIAGRAM



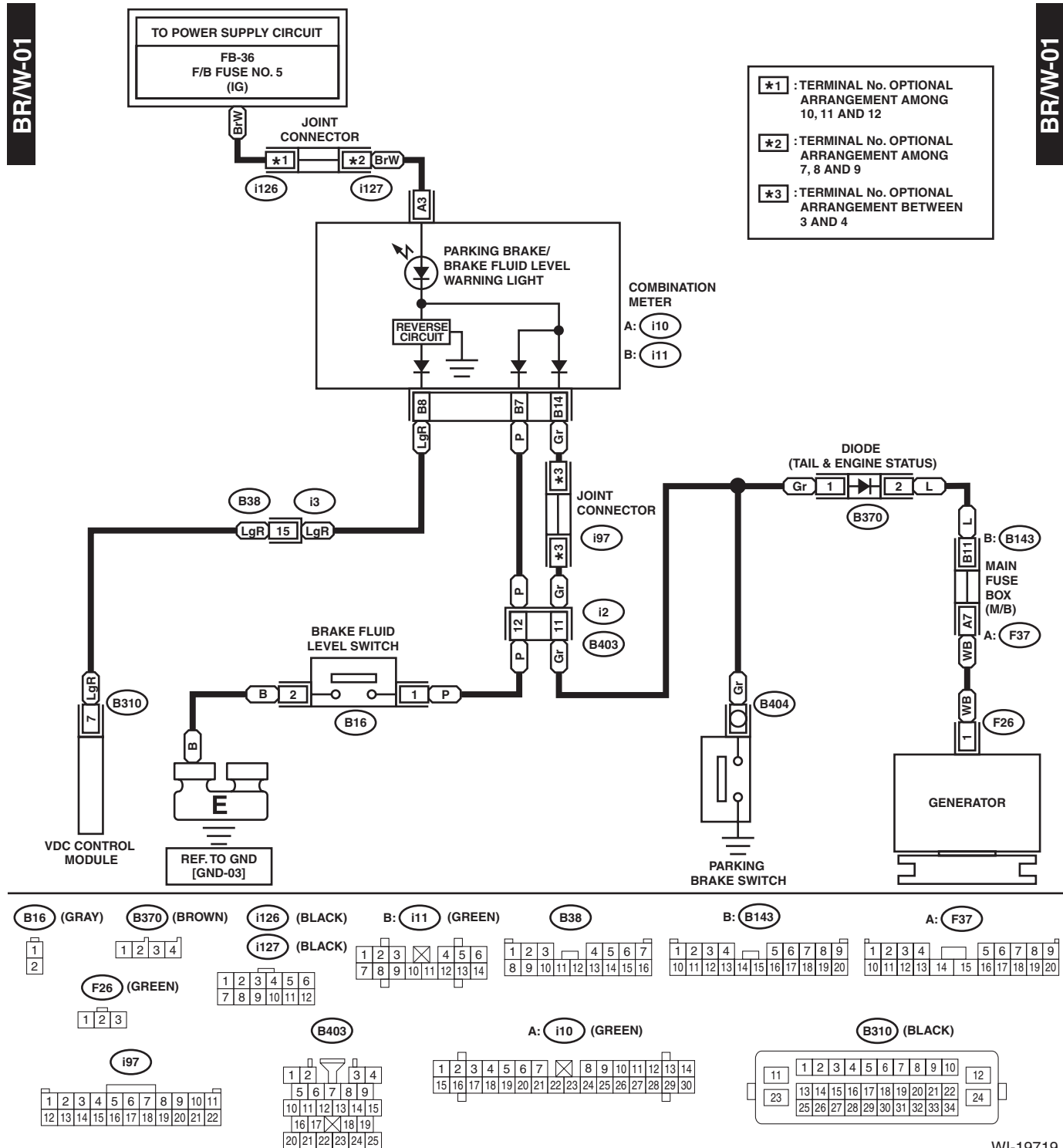
WI-16099

Parking Brake / Brake Fluid Level Warning Light System

WIRING SYSTEM

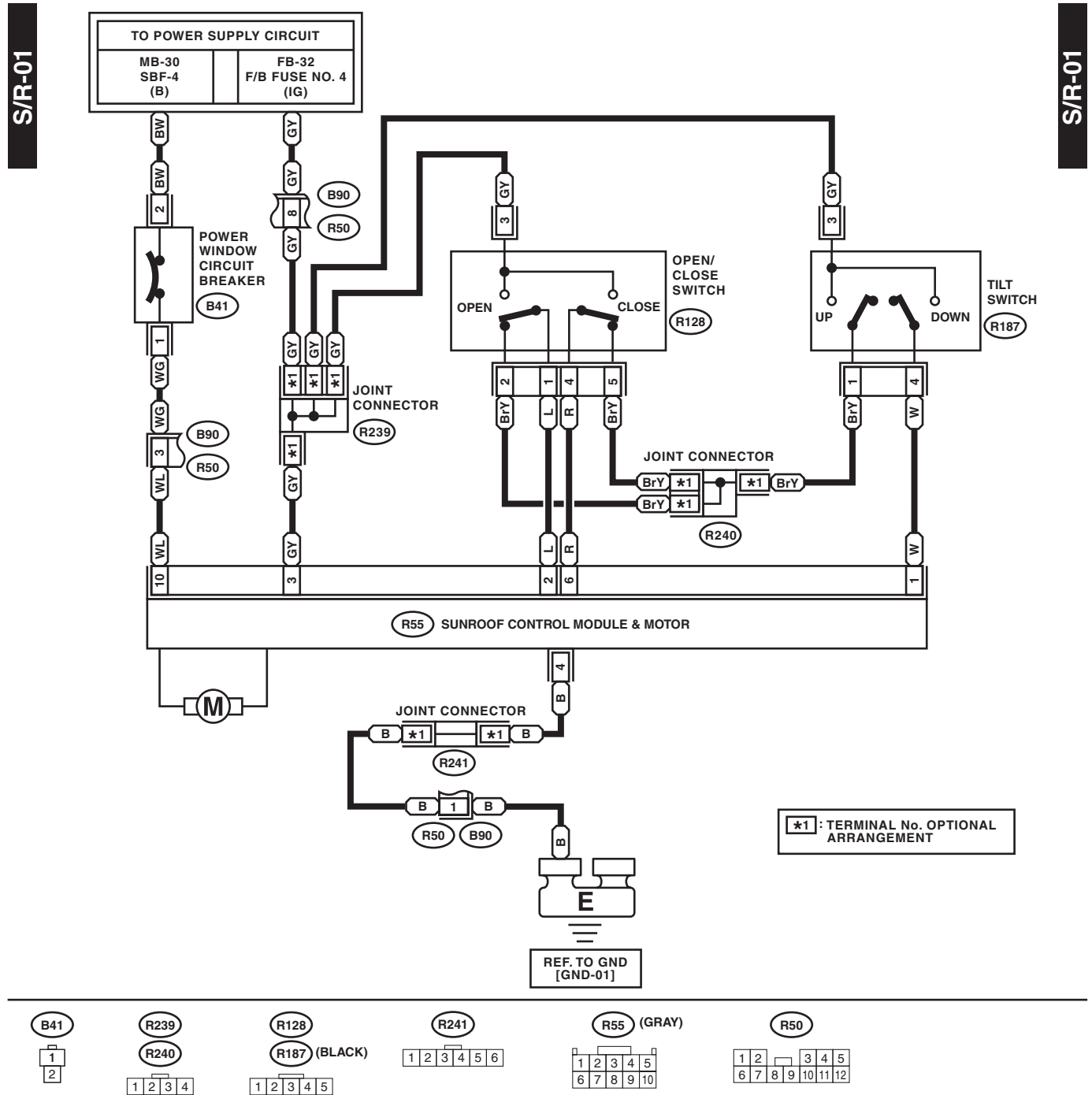
52. Parking Brake / Brake Fluid Level Warning Light System

A: WIRING DIAGRAM



53.Sunroof Control System

A: WIRING DIAGRAM



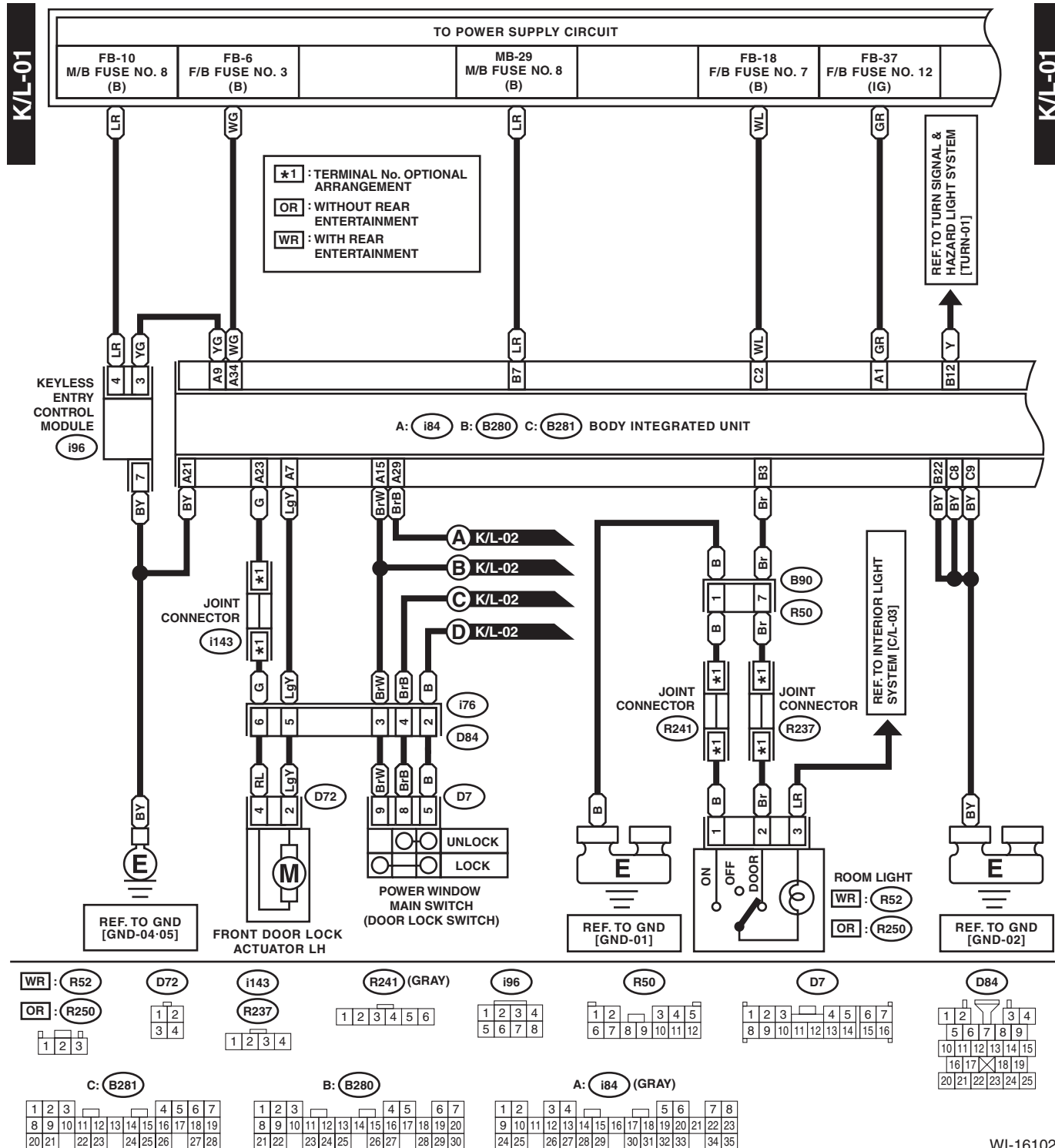
WI-16101

Keyless Entry System

WIRING SYSTEM

54.Keyless Entry System

A: WIRING DIAGRAM

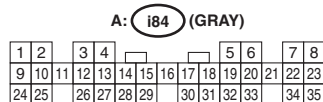
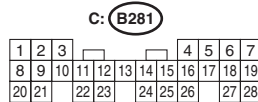
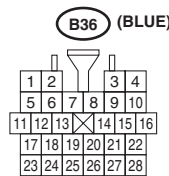
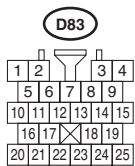
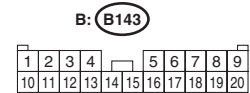
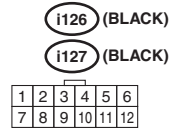
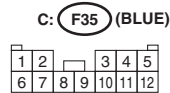
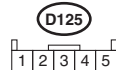
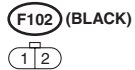
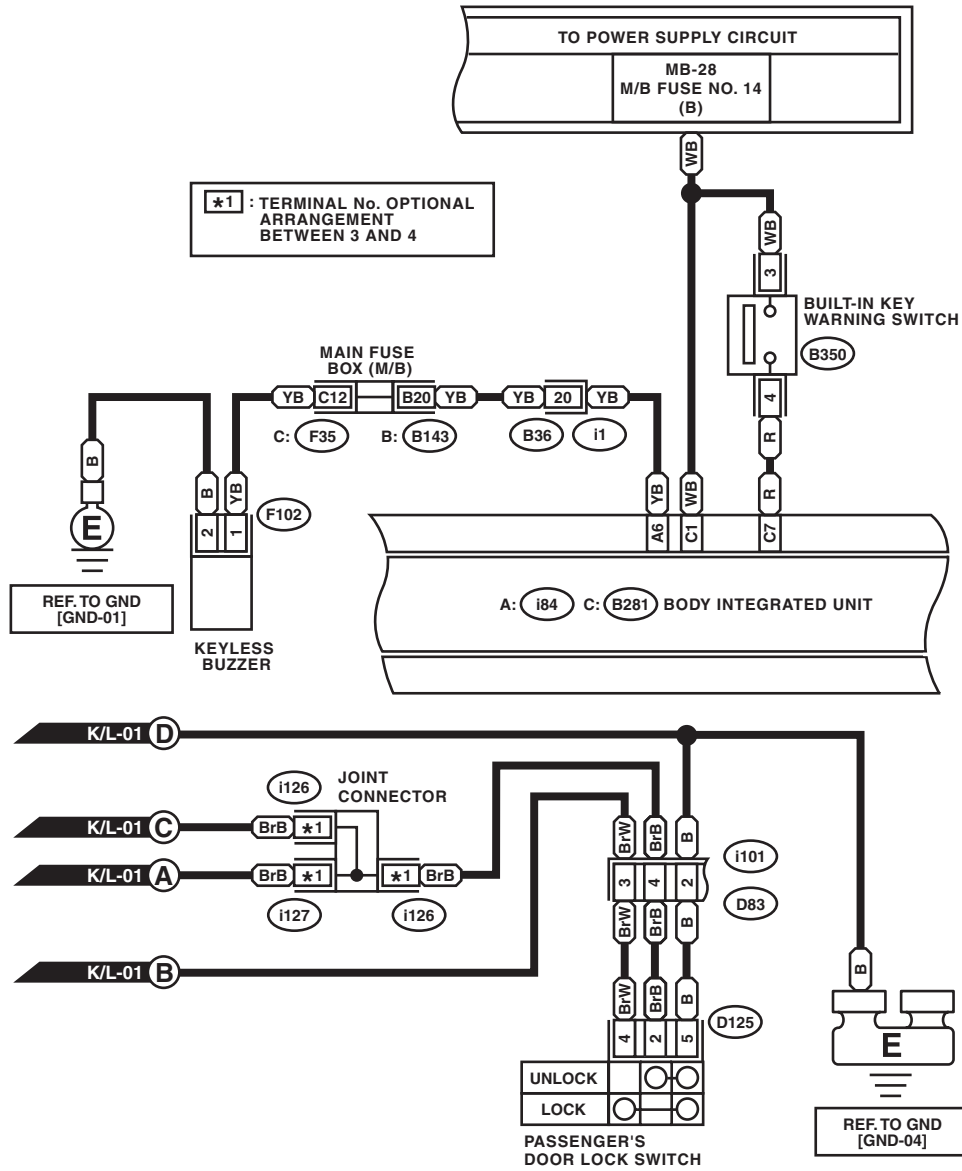


Keyless Entry System

WIRING SYSTEM

K/L-02

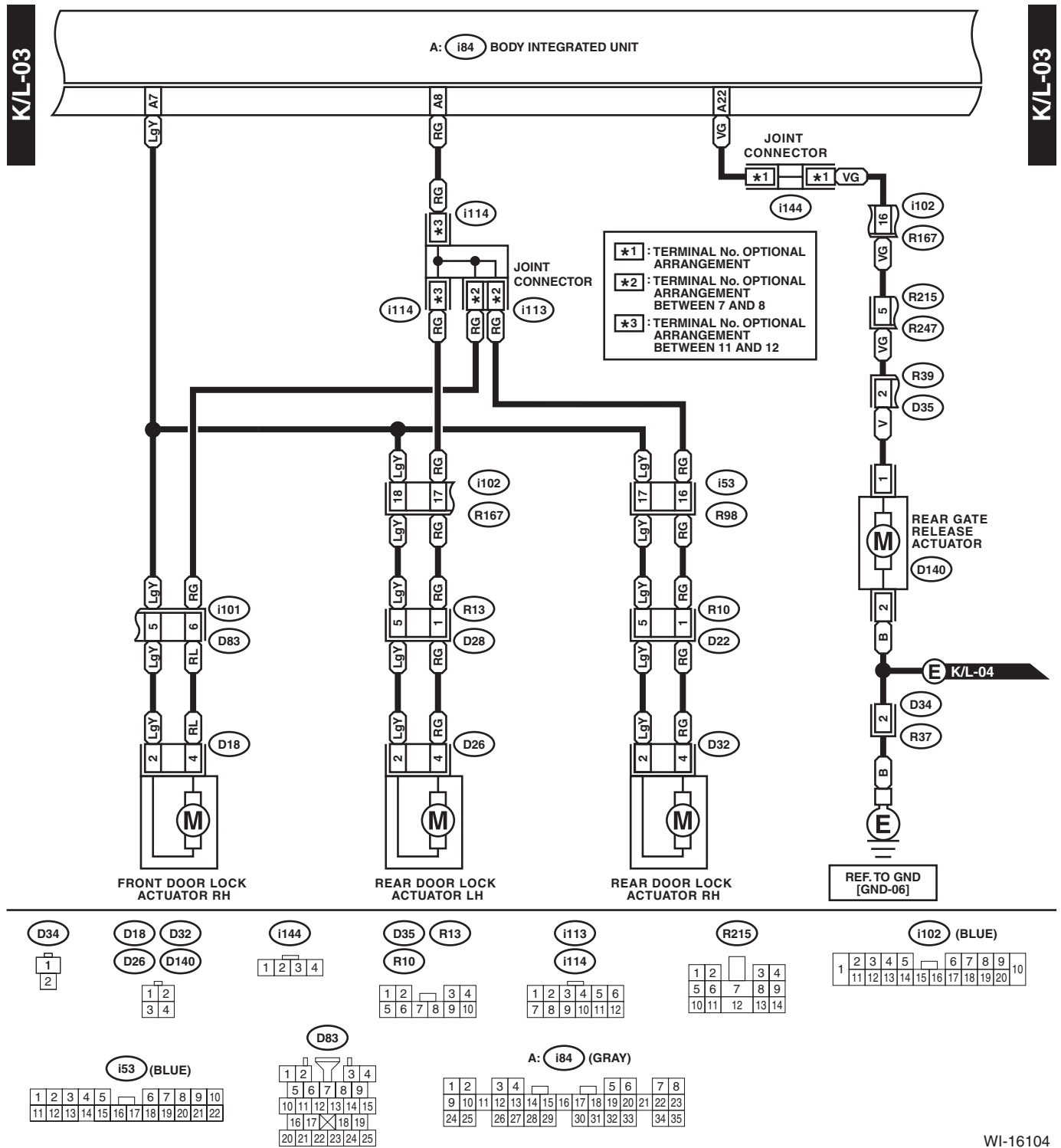
K/L-02



WI-16103

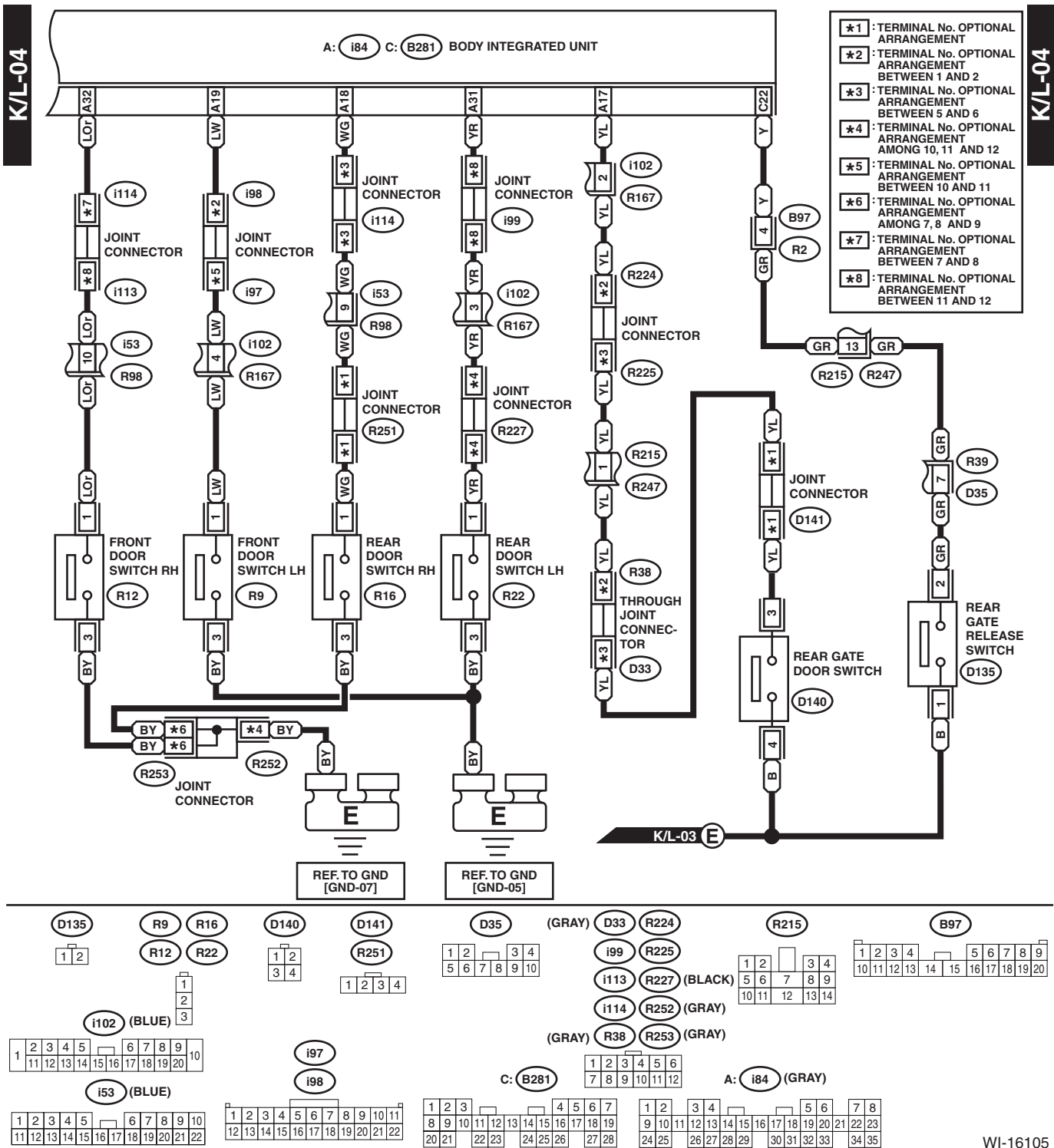
WIRING SYSTEM

WIRING SYSTEM



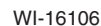
Keyless Entry System

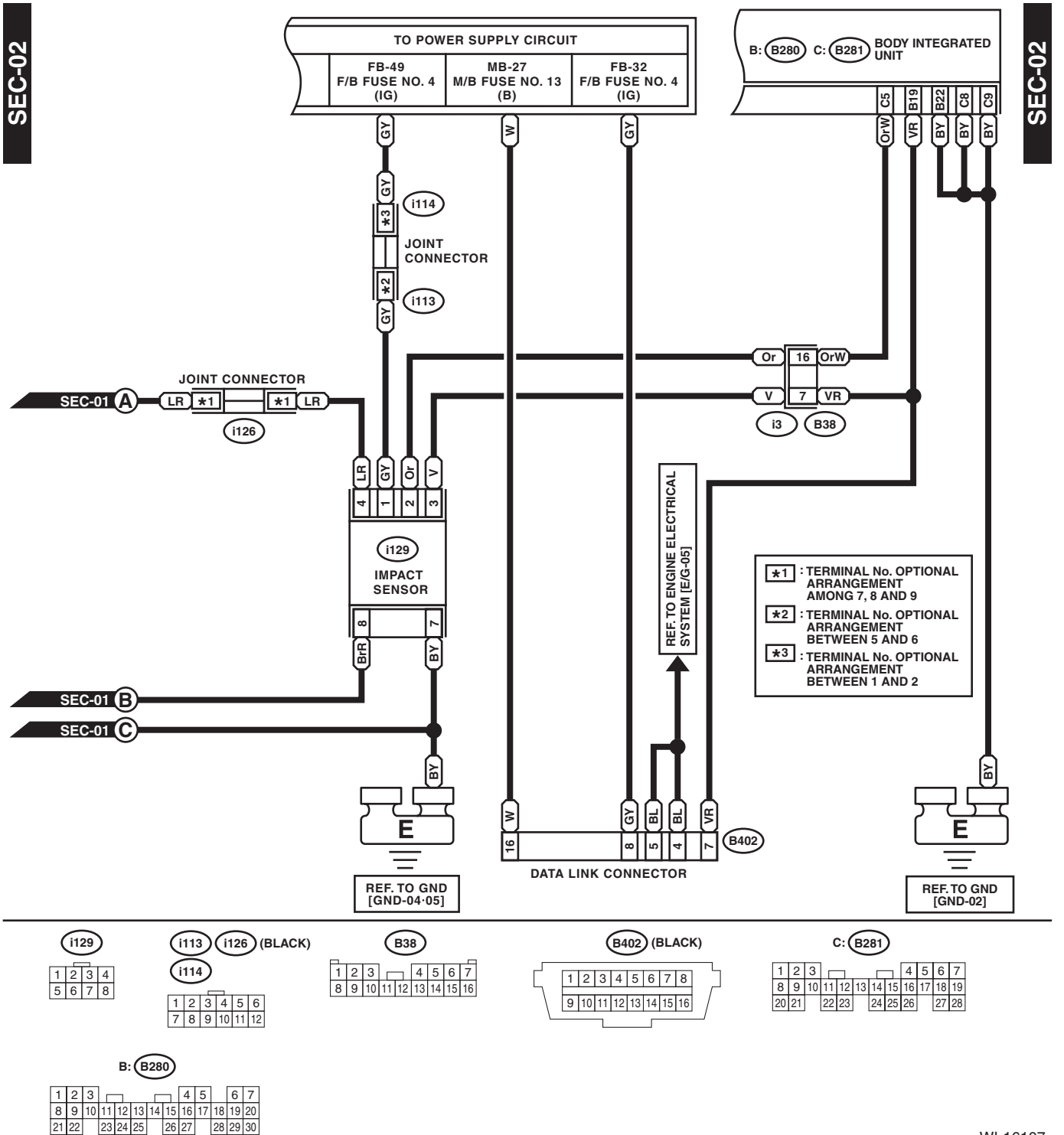
WIRING SYSTEM



WI-16105

A: WIRING DIAGRAM

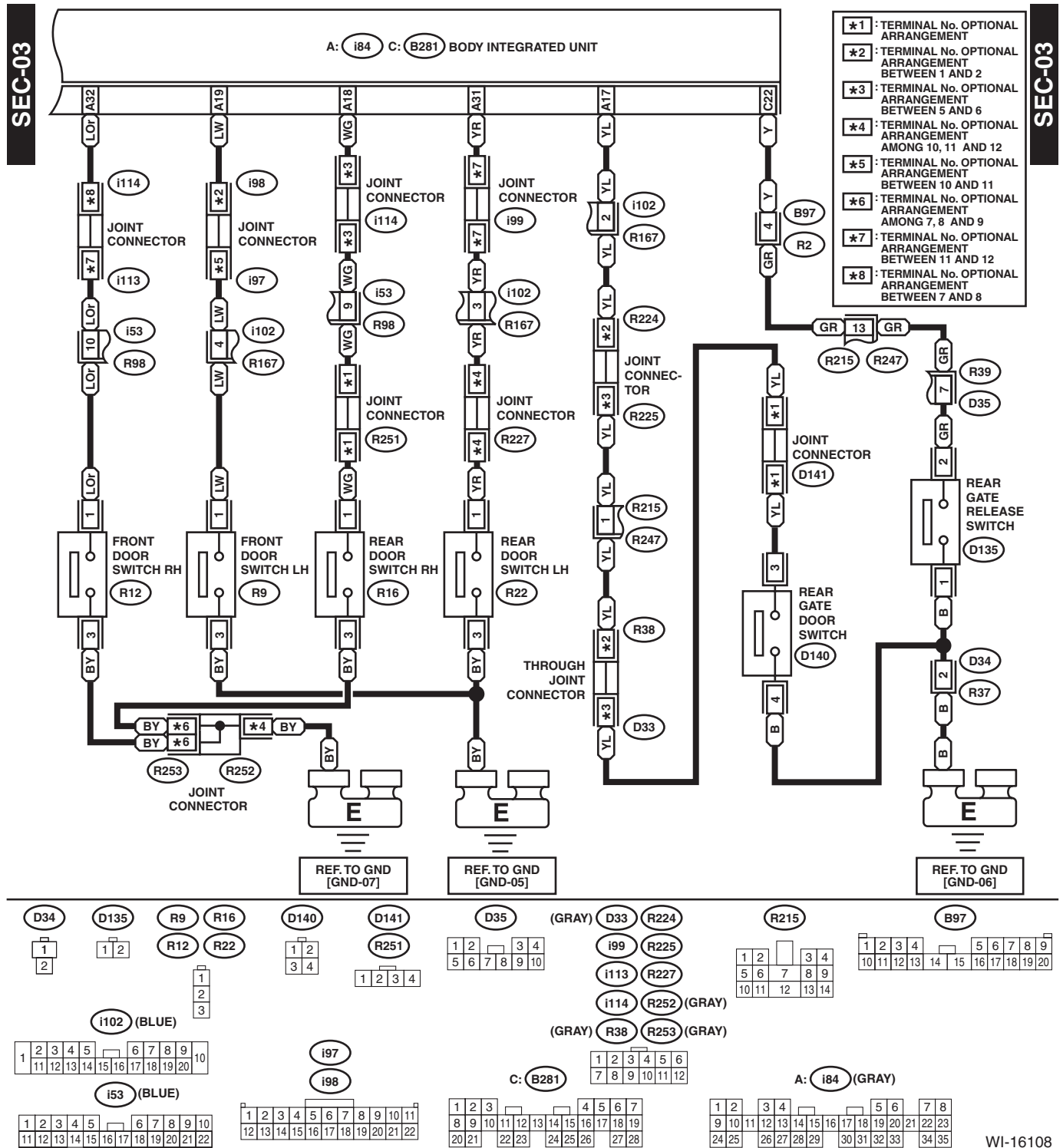




WI-16107

Security System

WIRING SYSTEM

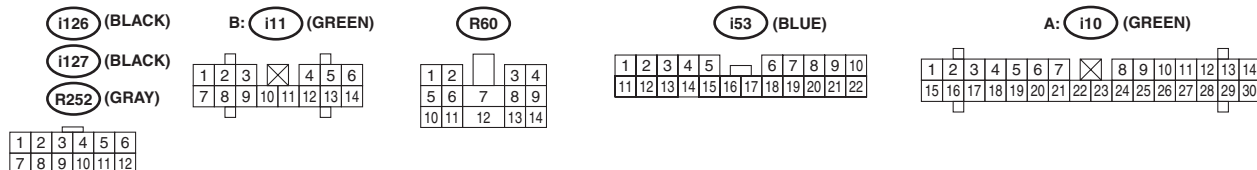
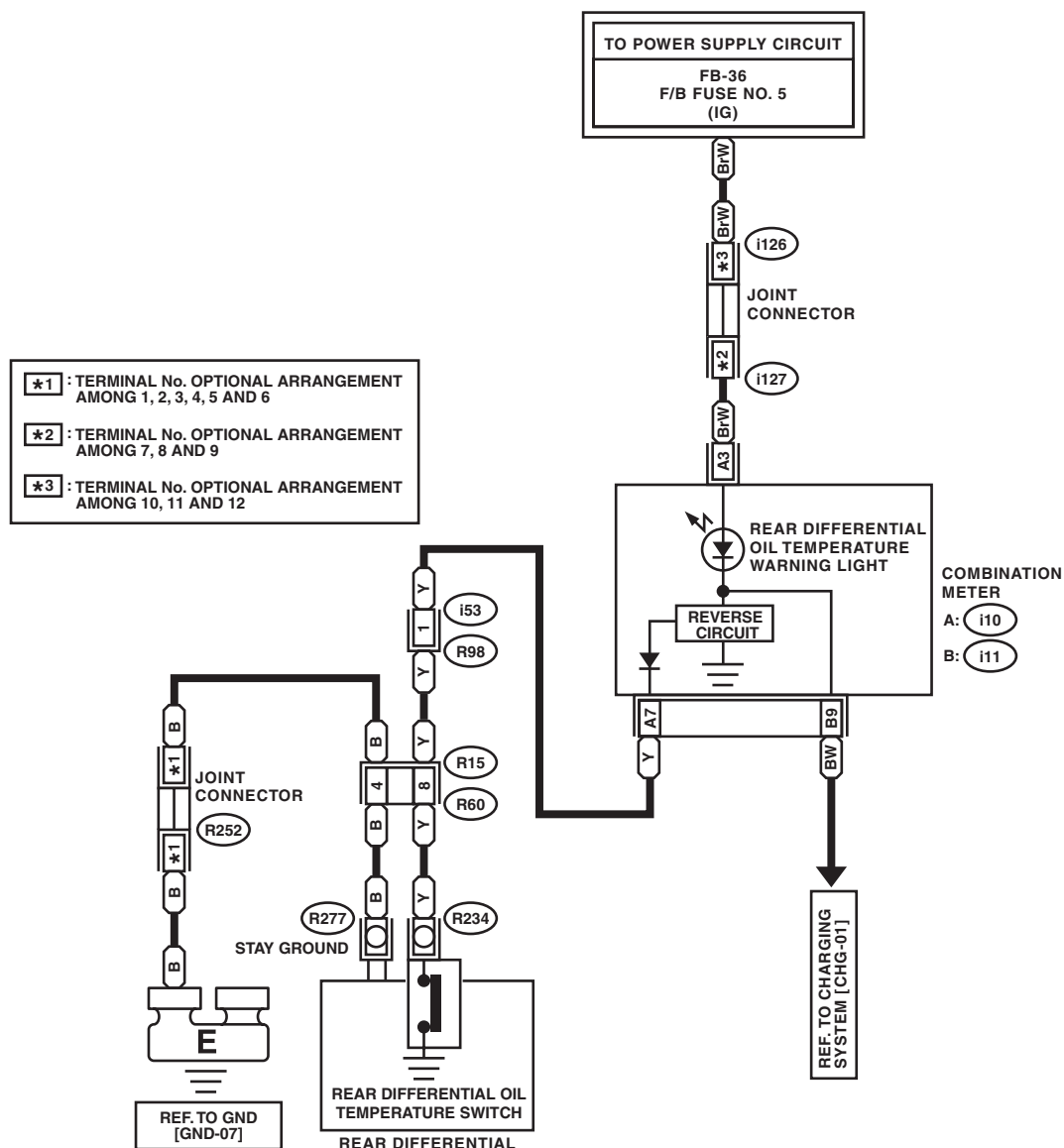


56.Rear Differential Oil Temperature Warning Light System

A: WIRING DIAGRAM

D/T-01

D/T-01

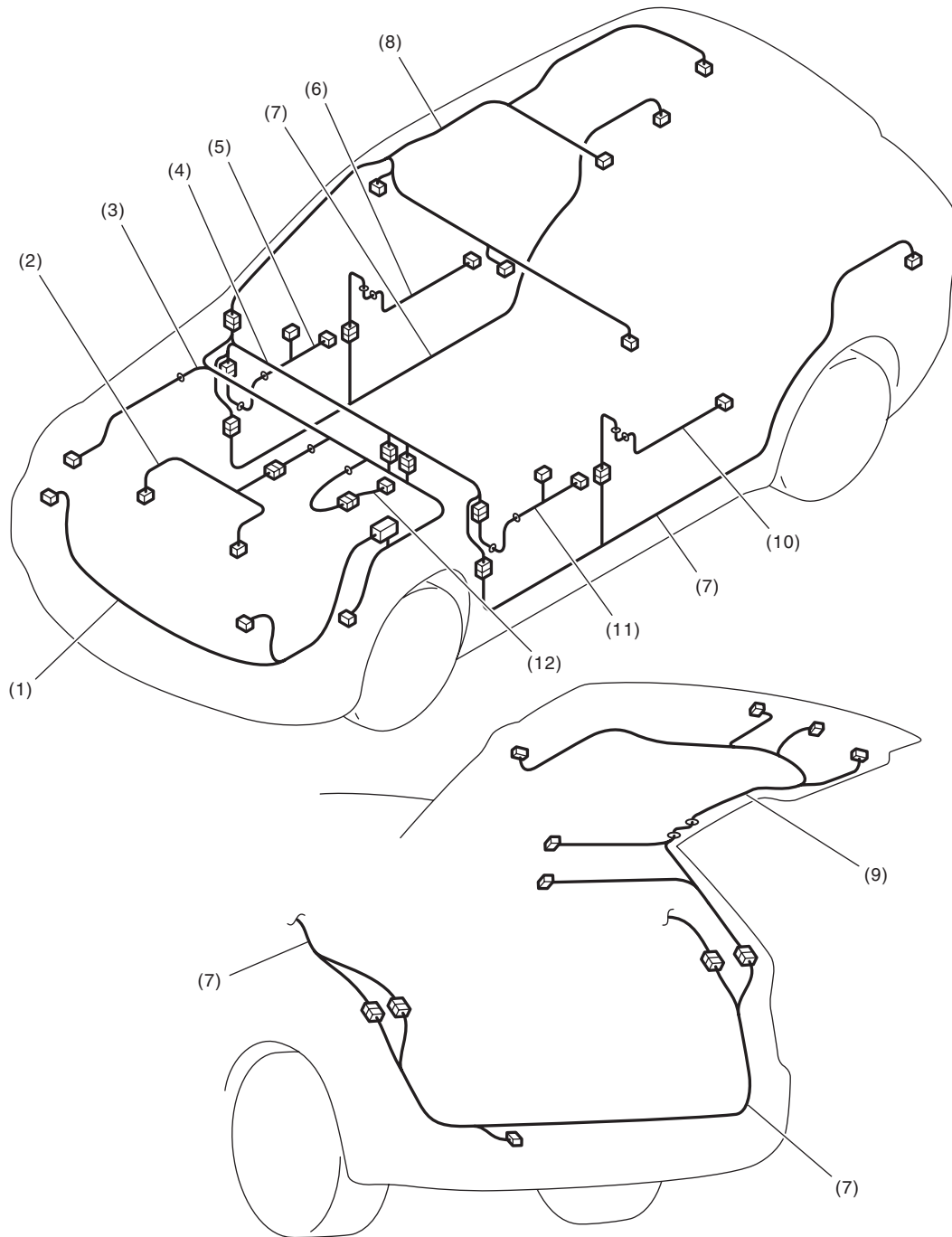


Harness Components Location

WIRING SYSTEM

57.Harness Components Location

A: LOCATION



WI-16110

- | | | |
|-------------------------------------|-------------------------|-------------------------|
| (1) Front wiring harness | (5) Front door cord RH | (9) Rear gate cord |
| (2) Engine wiring harness | (6) Rear door cord RH | (10) Rear door cord LH |
| (3) Bulkhead wiring harness | (7) Rear wiring harness | (11) Front door cord LH |
| (4) Instrument panel wiring harness | (8) Roof cord | (12) Transmission cord |

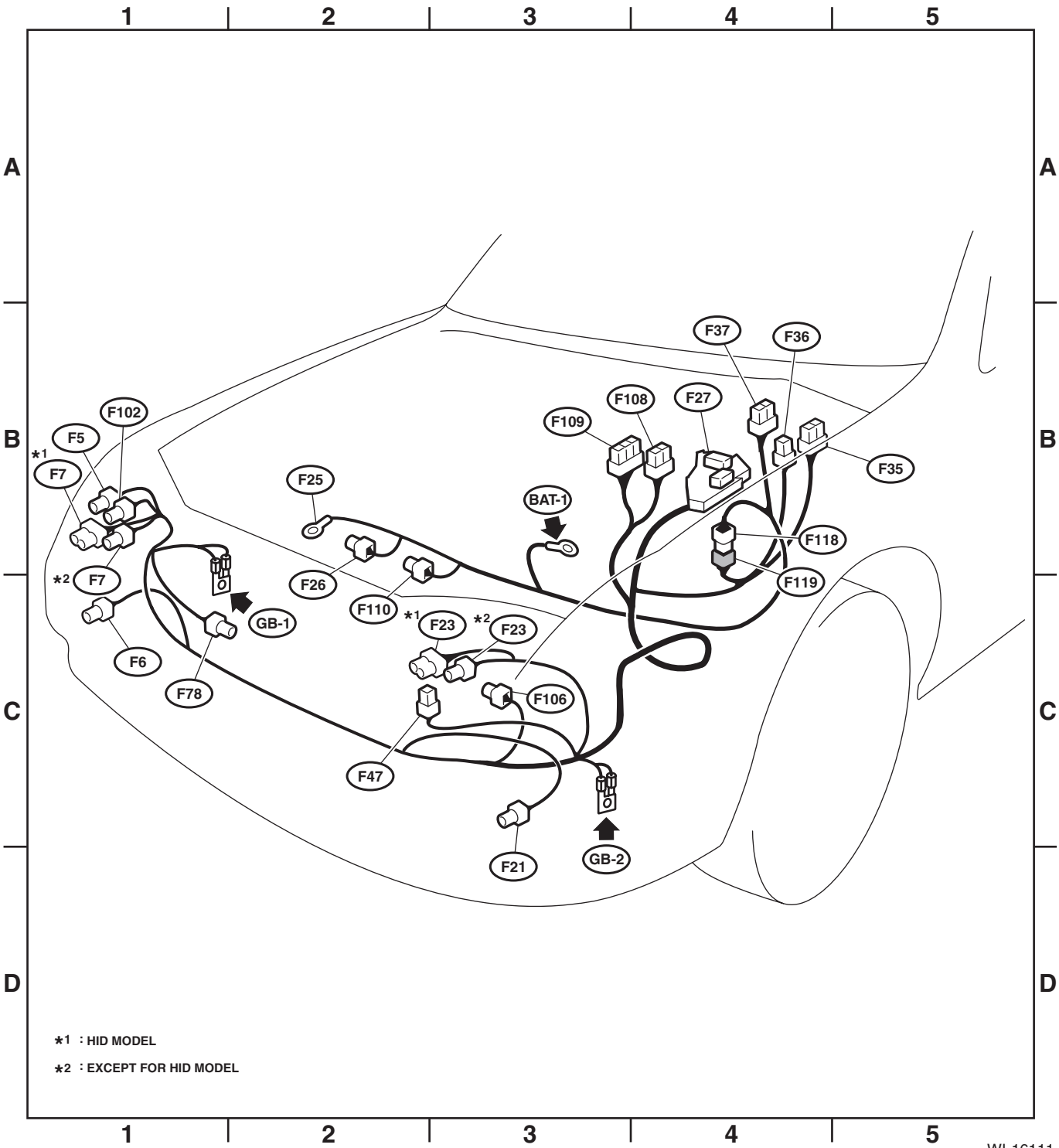
58. Front Wiring Harness

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
F5	1	Black	B-1		Horn
F6	2	Gray	C-1		Front fog light RH
F7	8	Gray	B-1		Headlight and front clearance light & front turn signal light RH (except for HID model)
	10	Gray	B-1		Headlight & headlight beam leveler & front clearance light & front turn signal light RH (HID model)
F21	2	Gray	D-3		Front fog light LH
F23	8	Gray	C-3		Headlight and front clearance light & front turn signal light LH (except for HID model)
	10	Gray	C-3		Headlight & headlight beam leveler & front clearance light & front turn signal light LH (HID model)
F25	1	★	C-2		Generator terminal B
F26	3	Green	C-2		Generator
F27	16	Black	B-4		Relay holder
F35	12	Blue	B-4		Main fuse box (M/B)
F36	7	★	B-4		
F37	20	★	B-4		
F47	1	Black	C-2		Horn
F78	2	Black	C-1		Ambient sensor
F102	2	Black	B-1		Keyless buzzer
F106	3	★	C-3		Radiator fan control unit
F108	18	Gray	B-4	B361	Through joint connector
F109	24	★	B-3	B360	
F110	1	Black	C-2		Magnet clutch
F118	1	★	B-4	F119	Front wiring harness
F119	1	★	B-4	F118	Generator cord
★ : White or natural color					

Front Wiring Harness

WIRING SYSTEM



WI-16111

59. Bulkhead Wiring Harness (In Engine Compartment)

A: LOCATION

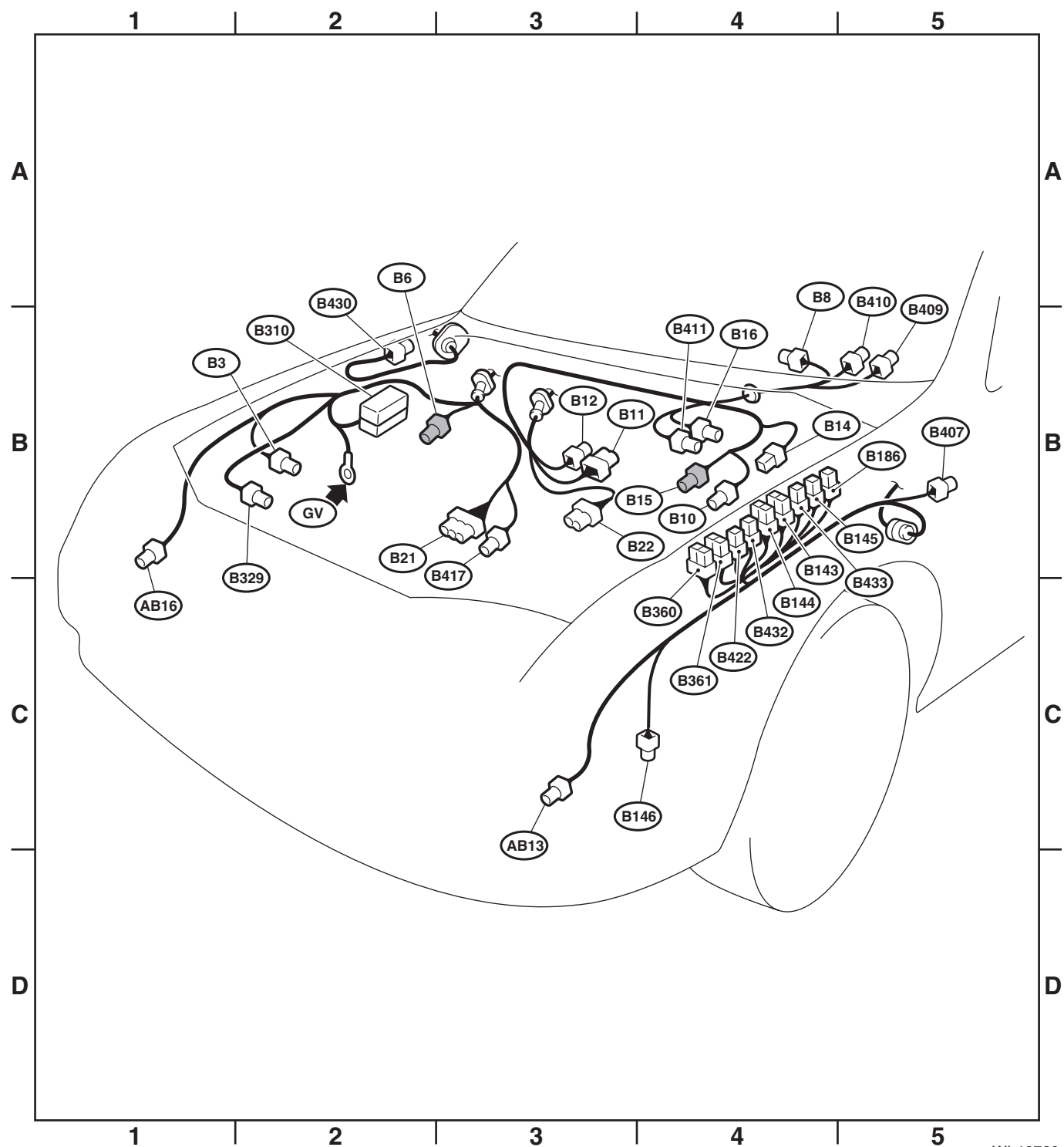
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B3	5	Black	B-2		Air flow sensor
B6	2	Gray	B-2		Front ABS wheel speed sensor RH
B8	5	Gray	B-4		Front wiper motor
B10	4	Gray	B-4		Pressure switch
B11	20	Gray	B-3	T4	Transmission harness
B12	8	Gray	B-3	T3	
B14	1	Black	B-4		Starter motor (Magnet)
B15	2	Gray	B-4		Front ABS wheel speed sensor LH
B16	2	Gray	B-4		Brake fluid level switch
B21	54	Black	B-3	E2	Engine wiring harness
B22	16	Brown	B-3	E3	
B143	20	★	B-4		Main fuse box (M/B)
B144	9	Brown	B-4		
B145	7	Brown	B-4		
B146	6	Gray	C-4		Front washer motor & rear washer motor & washer level switch
B186	8	★	B-4		Main fuse box (M/B)
B310	34	Black	B-2		VDC control module
B329	2	Black	B-2		Hood switch
B360	16	Gray	B-4	F109	Through joint connector
B361	14	Gray	B-4	F108	
B407	2	Black	B-5		Puddle light LH
B409	4	Black	B-5		Wiper relay unit
B410	3	Gray	B-5		
B411	3	Black	B-4		Pressure sensor
B417	2	Gray	B-3		Vacuum pump
B422	4	Black	B-4		Vacuum pump relay
B430	2	Black	B-2		Puddle light RH
B432	8	Black	B-4		SBF holder
B433	2	★	B-4		Main fuse box (M/B)

★ : 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-19720

60. Bulkhead Wiring Harness (In Compartment)

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B31	10	★	C-3	AB1	Airbag wiring harness
B32	8	★	C-2		Turn signal and hazard unit
B36	28	Blue	B-2	i1	Instrument panel wiring harness
B38	16	★	B-5	i3	
B41	2	★	C-2		Power window circuit breaker
B47	6	Brown	B-5		Main relay
B52	24	★	B-2		Fuse & relay box (F/B)
B54	35	★	C-3		TCM
B55	35	★	B-3		
B65	4	Black	B-3		Stop light & brake switch
B68	8	★	B-3		Roll connector
B69	4	★	B-4		Parking switch
B70	18	★	B-3		Combination Switch (Wiper)
B71	17	★	B-3		Combination switch (lighting)
B72	6	★	B-3		Ignition switch
B77	7	Green	B-4		Mode actuator
B86	5	★	B-4		Power transistor
B87	2	★	B-4		Blower motor
B88	2	★	B-4		Evaporator thermo switch
B90	12	★	B-4	R50	Roof cord
B91	7	Green	B-4		Intake door actuator
B96	8	Black	B-2		Daytime running light control module
B97	20	★	C-1	R2	Rear wiring harness
B98	24	Black	B-5	R1	
B116	12	★	D-4		AT select lever
B122	6	★	D-5		Joint connector (E/G)
B134	34	★	C-4		ECM
B135	35	★	C-4		
B136	35	★	C-4		
B137	31	★	C-5		
B152	10	Gray	B-2		Fuse & relay box (F/B)
B158	8	★	B-2		
B159	9	Brown	B-2		
B177	2	★	B-4		Wiper deicer
B225	40	Black	C-2		Seat heater relay
					Starter relay
					Power window relay
					Fuse (Relay block)
					Accessory relay 2
					Front fog light relay
					Mirror heater relay
					Low beam relay
					Wiper deicer relay
B231	4	★	B-3		Steering angle sensor
B235	7	Green	B-4		Passenger's side air mix actuator
B242	10	★	B-2		Daytime running light control module

Bulkhead Wiring Harness (In Compartment)

WIRING SYSTEM

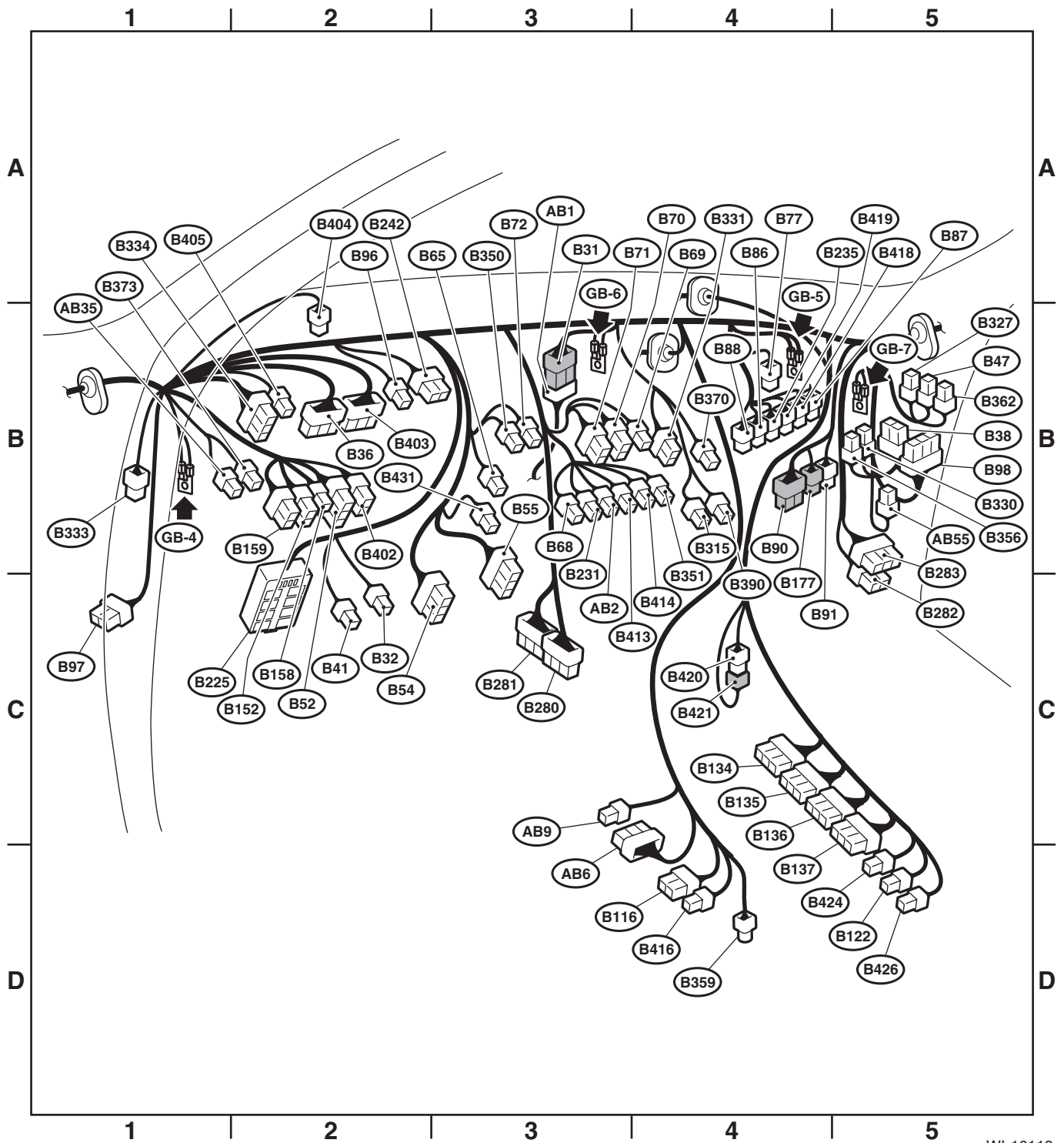
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B280	30	★	C-3		Body integrated unit
B281	28	★	C-3		
B282	16	★	C-5		
B283	26	★	B-5		Auto A/C control module & rear defogger switch
B315	6	Black	B-4		Accelerator pedal position sensor
B327	6	Brown	B-5		Main relay 2
B330	4	Black	B-5		Inhibitor relay
B331	20	★	B-4		CAN joint connector
B333	2	★	B-1		Short connector
B334	24	★	B-2		Remote engine start control module
B350	4	★	B-3		Key warning switch & key lock solenoid
B351	2	Black	B-4		Antenna
B356	4	Black	B-5		Back-up light relay
B359	6	Black	D-4		Yaw rate & lateral G sensor
B362	8	Black	B-5		Relay holder
B370	4	Brown	B-4		Diode (Tail & engine status)
B373	2	★	B-2		Fuse & relay box (F/B)
B390	7	Green	B-4		Driver's side air mix actuator
B402	16	Black	B-2		Data link connector
B403	25	★	B-2	i2	Instrument panel wiring harness
B404	1	Black	B-2		Parking brake switch
B405	2	Black	B-2		Diode (Daytime running light)
B413	2	★	B-3		In-vehicle sensor
B414	2	★	B-4		Key illumination
B416	8	★	D-4		CAN joint connector
B418	2	★	B-4		Foot light (Passenger's seat)
B419	7	★	B-4		Blower motor relay
B420	2	Green	C-4		Delivery (test) mode connector
B421	2	Green	C-4		
B424	8	★	D-5		Joint connector
B426	6	★	D-5		
B431	2	★	B-3		Foot light (Driver's seat)

★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB1	10	Gray	B-3	B31	Bulkhead wiring harness
AB2	4	Yellow	B-3	AB7	Driver's airbag module (roll connector)
AB6	28	Yellow	C-4		Airbag control module
AB9	4	Yellow	C-3		Passenger's airbag module
AB35	2	Black	B-1		Fuse & relay box (F/B)
AB55	2	Yellow	B-5	AB57	Rear wiring harness

Bulkhead Wiring Harness (In Compartment)

WIRING SYSTEM



WI-16113

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM

61.Engine Wiring Harness and Transmission Cord

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
E2	54	Black	A-3	B21	Bulkhead wiring harness
E3	16	Brown	D-3	B22	
E4	2	Blue	A-2		Purge control solenoid valve
E5	2	Dark gray	A-2		Fuel injector No. 1
E6	2	Dark gray	A-2		Fuel injector No. 3
E8	2	Brown	B-4		Engine coolant temperature sensor
E10	2	Light gray	B-4		Crankshaft position sensor
E11	1	★	B-2		Oil pressure switch
E14	2	Blue	A-3		Knock sensor 1
E16	2	Dark gray	B-4		Fuel injector No. 2
E17	2	Dark gray	B-4		Fuel injector No. 4
E18	6	★	B-3		EGR valve
E19	1	★	B-3		Power steering oil pressure switch
E24	4	Light gray	D-3		Front oxygen (A/F) sensor LH
E25	4	Dark gray	D-3		Rear oxygen sensor LH
E28	3	Black	A-3		Intake manifold pressure sensor
E31	3	Black	B-1		Ignition coil No. 1
E32	3	Black	C-4		Ignition coil No. 2
E33	3	★	B-2		Ignition coil No. 3
E34	3	★	B-4		Ignition coil No. 4
E43	2	Dark gray	A-2		Fuel injector No. 5
E44	2	Dark gray	B-5		Fuel injector No. 6
E45	3	Black	B-2		Ignition coil No. 5
E46	3	Black	B-5		Ignition coil No. 6
E47	4	Light gray	D-2		Front oxygen (A/F) sensor RH
E48	2	Blue	A-4		Knock sensor 2
E57	6	Black	A-3		Electronic throttle control
E61	4	Dark gray	C-2		Rear oxygen sensor RH
E62	3	Gray	B-1		Exhaust camshaft position sensor RH
E65	3	Gray	C-4		Exhaust camshaft position sensor LH
E67	2	Black	B-1		Intake oil flow control solenoid valve RH
E68	2	Black	B-4		Intake oil flow control solenoid valve LH
E73	3	Gray	A-2		Intake camshaft position sensor RH
E74	3	Gray	B-5		Intake camshaft position sensor LH
E75	2	Black	B-4		Oil temperature sensor
E76	10	Dark gray	A-3	E77	Engine wiring harness
E77	10	Dark gray	A-3	E76	
E80	2	Blue	B-2		Exhaust oil flow control solenoid valve RH
E81	2	Blue	B-4		Exhaust oil flow control solenoid valve LH

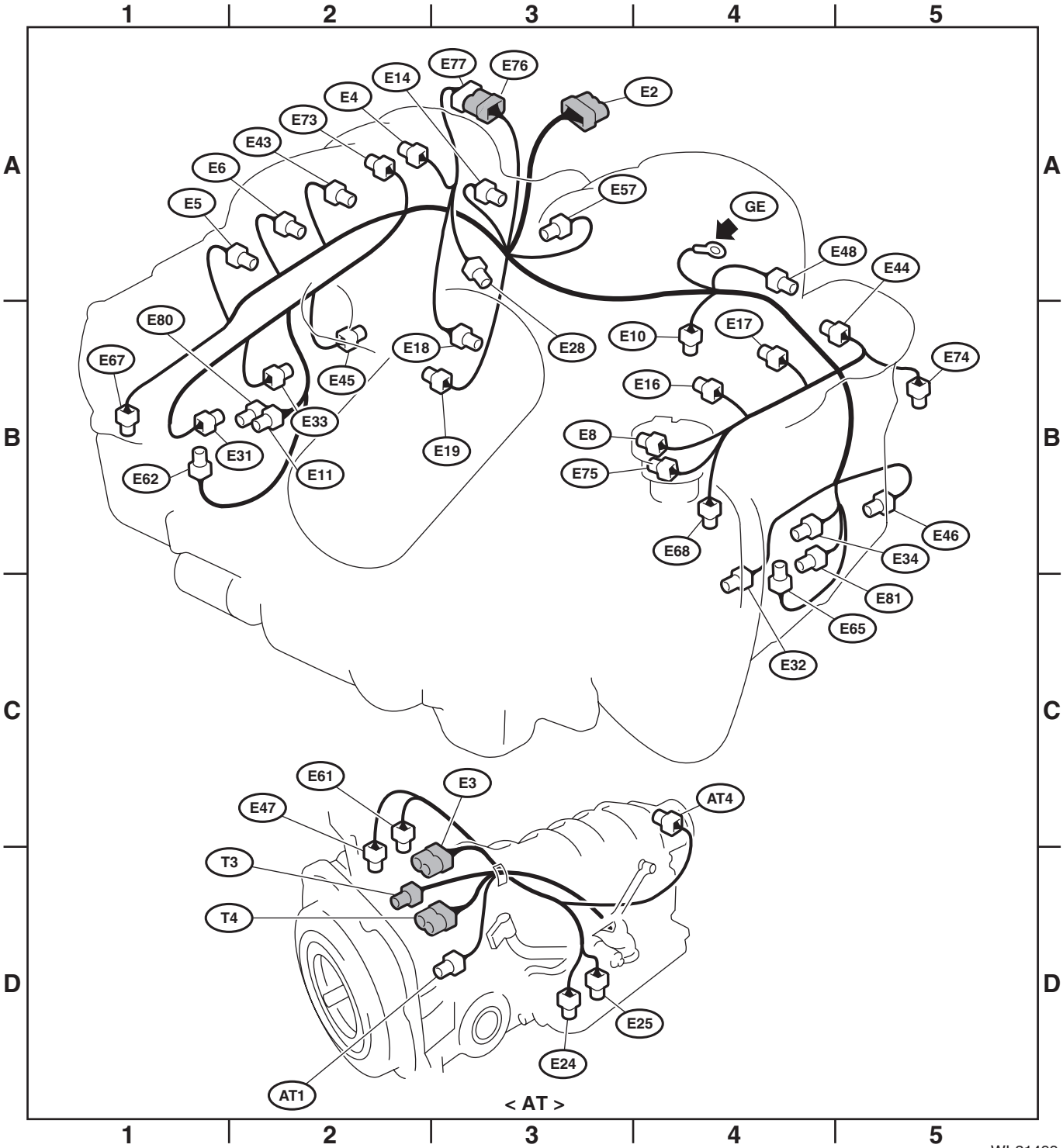
★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AT1	3	Black	C-4		Turbine speed sensor 1
AT4	3	Black	D-3		Rear vehicle speed sensor

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T3	8	Gray	D-2	B12	Bulkhead wiring harness
T4	10	Gray	D-3	B11	



WI-21499

Instrument Panel Wiring Harness

WIRING SYSTEM

62.Instrument Panel Wiring Harness

A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
i1	28	Blue	B-1	B36	Bulkhead wiring harness
i2	25	★	B-1	B403	
i3	16	★	B-5	B38	
i5	20	★	B-1		Fuse & relay box (F/B)
i6	16	★	C-2		Remote control mirror switch
i10	30	Green	B-2		Combination meter
i11	14	Green	B-2		
i22	4	★	B-4		Hazard switch
i23	2	★	B-4		Glove box light
i26	16	★	C-2		Audio
i29	1	Black	C-4		Audio bracket ground
i39	8	★	C-2		Headlight beam leveler switch
i51	2	★	B-5		Sunload sensor
i53	22	Blue	C-5	R98	Rear wiring harness
i76	25	★	C-1	D84	Front door cord LH
i78	15	Blue	C-2		Push switch
i79	6	★	C-2		Illumination control module
i82	4	★	B-3		Joint connector
i83	4	★	B-3		
i84	35	Gray	B-2		Body integrated unit
i85	14	★	C-4		Audio
i88	8	Black	C-4		A/C control panel
i96	8	★	B-5		Keyless entry control module
i97	22	★	B-2		Joint connector
i98	22	★	B-2		
i99	12	★	B-5		
i100	12	★	B-5		
i101	25	★	C-5	D83	Front door cord RH
i102	20	Blue	C-1	R167	Rear wiring harness
i106	4	★	B-3		TV monitor (Rearview camera)
i113	12	★	B-5		Joint connector
i114	12	★	B-5		
i116	10	Green	B-4		Warning box RH
i117	8	Black	B-4		MFD switch
i118	8	Black	B-4		Navigation system switch
i119	16	Black	B-3		TV monitor
i120	20	Black	B-3		
i121	8	Black	B-3		
i122	22	Green	B-3		MFD
i123	14	Green	B-3		Warning box LH
i126	12	Black	C-2		Joint connector
i127	12	Black	C-2		
i129	8	★	C-3		Impact sensor
i130	22	★	C-3	R230	Rear wiring harness LH (center)
i131	20	Black	C-4		Audio unit
i132	22	★	B-5	R243	Roof harness

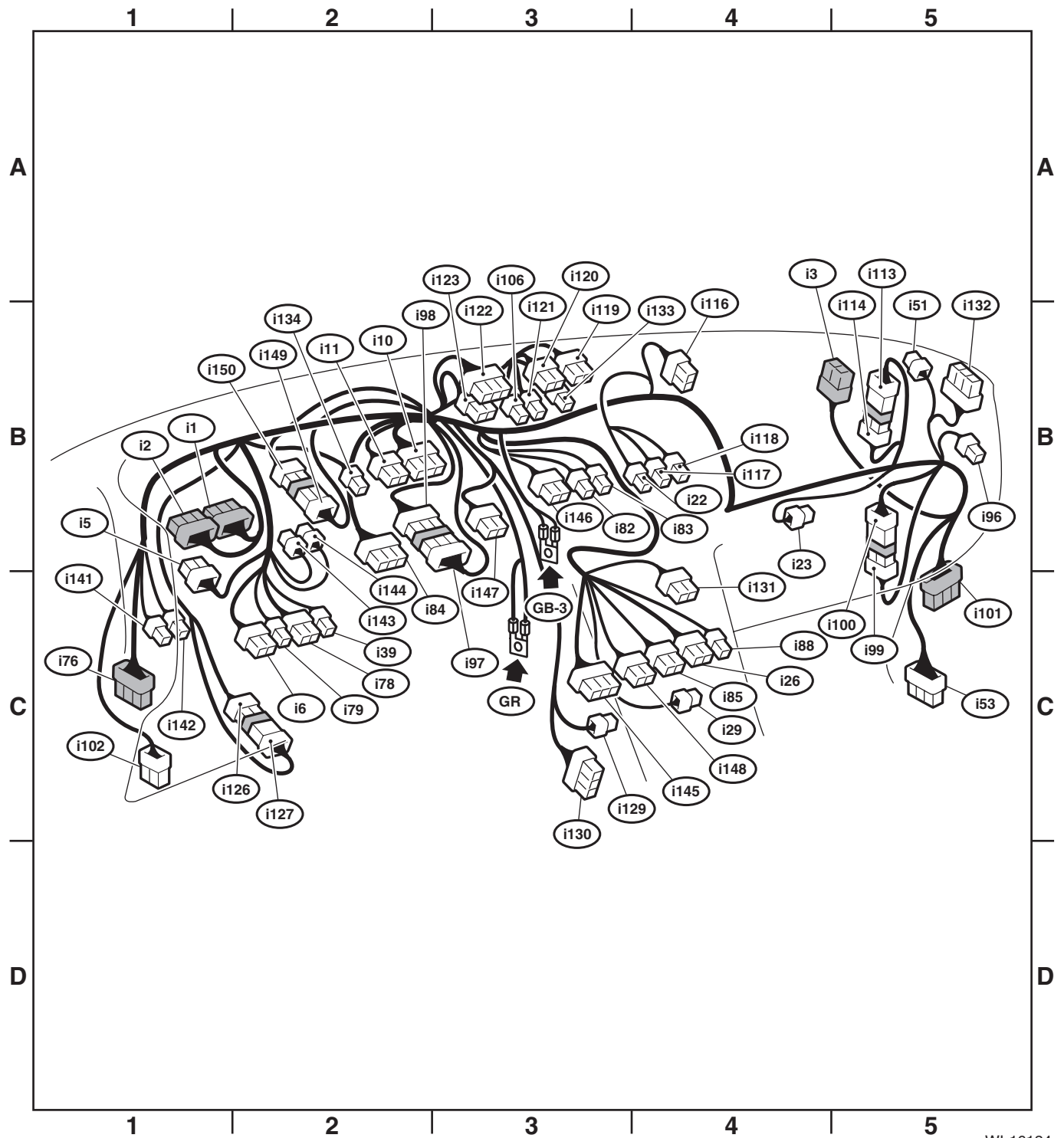
Instrument Panel Wiring Harness

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
i133	5	Green	B-3		TV monitor (Rear entertainment)
i134	3	★	B-2		Turn signal hazard relay (Sound)
i141	4	★	C-1		CAN joint connector
i142	4	★	C-1		
i143	4	★	B-2		Joint connector
i144	4	★	B-2		
i145	32	★	C-3		AUX switching unit
i146	12	Black	B-3		Joint connector
i147	12	Black	B-3		
i148	20	Blue	C-4		XM radio
i149	12	Black	B-2		Joint connector
i150	12	Black	B-2		
★ : White or natural color					

Instrument Panel Wiring Harness

WIRING SYSTEM



WI-16124

63.Rear Wiring Harness

A: LOCATION

1. PASSENGER'S SIDE

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R1	24	Black	C-1	B98	Bulkhead wiring harness
R10	10	★	B-2	D22	Rear door cord (Passenger's side)
R12	3	★	B-2		Front door switch RH
R15	14	★	C-3	R60	Fuel cord 1
R16	3	★	B-3		Rear door switch RH
R44	6	★	C-3		Seat heater RH & second-row seat foot light RH
R47	3	Black	C-5		Fuel tank pressure sensor
R50	12	★	C-1	B90	Bulkhead wiring harness
R51	2	Black	B-2		Vanity mirror light RH
R52	3	★	A-5		Room light (without rear entertainment)
R55	10	Gray	B-4		Sunroof control module & motor
R56	4	★	B-3		Spot map light (without sunroof)
	6	Gray	B-3		Spot map light (with sunroof)
R57	3	★	B-4		Shade mirror
R58	6	Gray	B-4		Fuel pump assembly
R59	2	★	C-4		Fuel sub level sensor
R60	14	★	C-3	R15	Rear wiring harness
R98	22	Blue	C-1	i53	Instrument panel wiring harness
R109	2	Black	C-3		Power seat RH
R117	2	★	A-4		Super woofer
R122	10	Black	B-4		Fuel pump control unit
R128	5	★	B-3		Open/Close switch
R143	2	Gray	C-5		Drain valve
R187	5	Black	B-3		Tilt switch
R233	4	★	C-3		Joint connector
R234	1	Black	C-5		Rear differential oil temperature switch
R235	10	★	A-5	R248	Rear gate cord
R236	24	★	B-4		Rear entertainment (Roof)
R237	4	★	B-3		Joint connector
R238	6	Gray	B-3		
R239	4	★	B-4		
R240	4	★	B-4		
R241	6	Gray	B-3		
R243	22	★	C-1	i132	Instrument panel wiring harness
R249	2	Gray	C-3		Rear ABS wheel speed sensor RH
R250	3	★	B-4		Room light (with rear entertainment)
R251	4	★	B-2		Joint connector
R252	12	Gray	C-2		
R253	12	Gray	C-2		
R259	2	Black	A-4		Rear tweeter RH
R262	2	Black	B-5		Rear tweeter LH
R270	2	★	B-4		Vanity mirror light LH & home link
R277	1	Black	C-5		Stay ground (Rear differential gear oil temperature switch)

★ : White or natural color

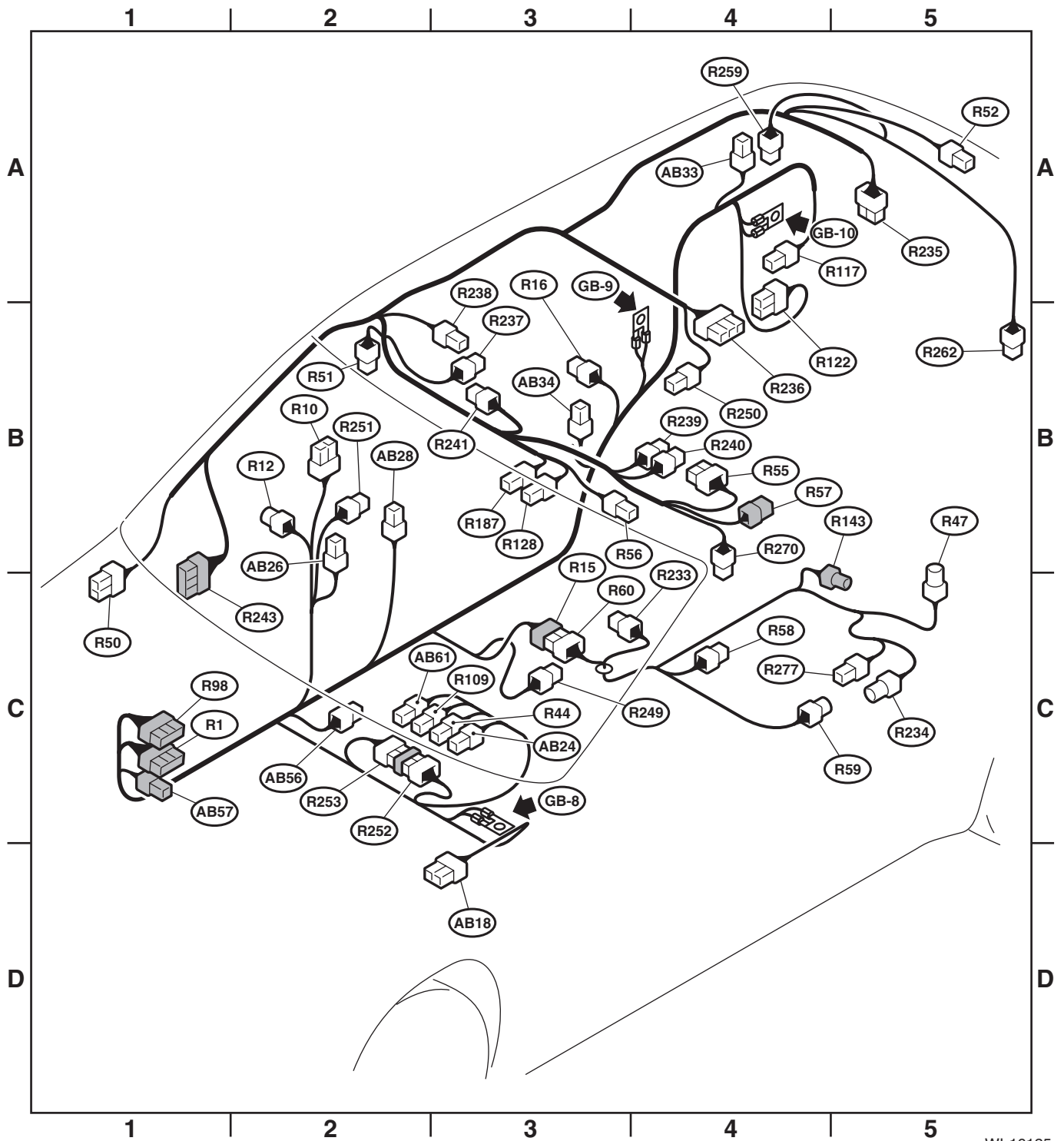
Rear Wiring Harness

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB18	20	Yellow	D-3		Airbag control module
AB24	2	Yellow	C-3		Side airbag module RH
AB26	2	Black	B-2		Pretensioner RH
AB28	4	Yellow	B-2		Side airbag sensor RH
AB33	2	Black	A-4		Curtain airbag module RH
AB34	4	Yellow	B-3		Curtain airbag sensor RH
AB56	3	Brown	C-2		Belt tension sensor (Occupant detection control module)
AB57	2	Yellow	C-1	AB55	Bulkhead wiring harness
AB61	6	Gray	C-2	AB59	Occupant detection control module

Rear Wiring Harness

WIRING SYSTEM



WI-16125

Rear Wiring Harness

WIRING SYSTEM

2. DRIVER'S SIDE

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R2	20	Black	D-2	B97	Bulkhead wiring harness
R8	4	★	C-2		Front seat belt switch LH
R9	3	★	C-3		Front door switch LH
R13	10	★	C-3	D28	Rear door cord LH
R22	3	★	C-4		Rear door switch LH
R28	4	★	B-5		Rear combination light LH
R41	6	★	C-2		Seat heater LH & second-row seat foot light LH
R167	20	Blue	D-2	i102	Instrument panel wiring harness
R168	20	★	D-1		Fuse & relay box (F/B)
R185	24	Gray	C-4		Rearview camera module
R188	4	Black	C-2		Power seat LH
R211	12	★	D-2		TPM control module
R215	14	★	B-5	R247	Rear gate cord
R216	12	Black	B-5	R246	Through joint connector
R217	10	★	B-5	R245	Room gate cord (with rear entertainment)
R218	4	★	B-5		Rear A/C relay
R219	4	★	B-5		Blower resistor
R220	2	★	B-5		Blower motor
R224	12	★	C-2		Joint connector
R225	12	★	C-2		
R226	10	Black	C-2		Navigation module
R227	12	Black	D-2		Joint connector
R228	12	Black	D-2		
R229	11	★	C-1	R272	Console socket
R230	22	★	C-1	i130	Instrument panel wiring harness (center)
R232	2	Gray	C-4		Rear ABS wheel speed sensor LH
R254	14	★	B-4	R260	Adapter cord
R272	11	★	C-1	R229	Rear wiring harness
R273	2	★	B-1		Cup holder illumination
R274	2	★	B-2		Front accessory power supply socket
R275	2	★	B-2		
R276	10	★	B-2		Blower switch
R280	6	Gray	C-2	R282	Console socket
R281	4	★	D-2		Joint connector
R282	6	Gray	C-2	R280	Rear wiring harness
R283	6	★	B-2		Front AUX terminal
R285	6	★	B-5		Feeder cord
R287	6	Gray	B-5		Joint connector

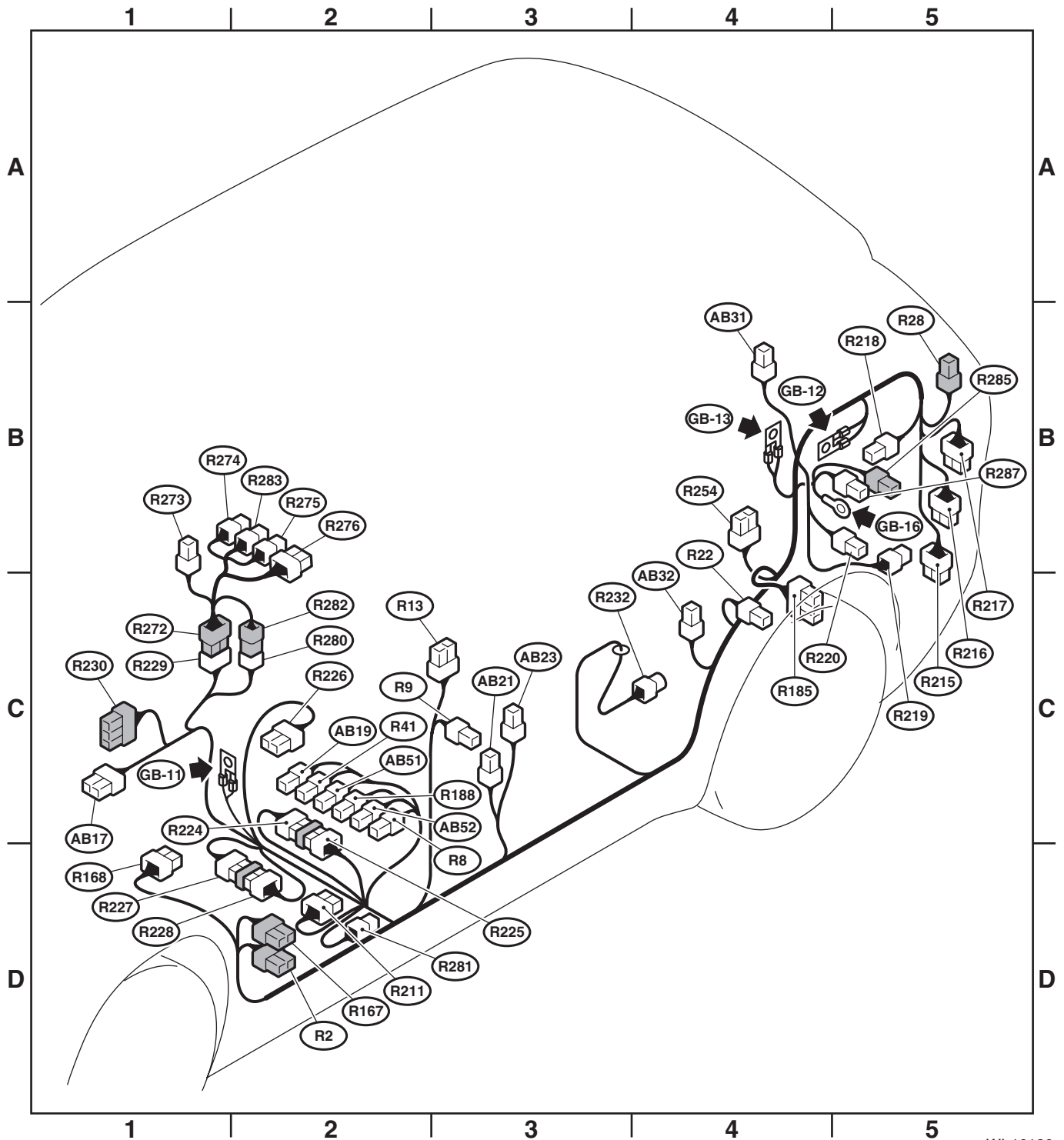
★ : White or natural color

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB17	20	Yellow	C-1		Airbag control module
AB19	2	Yellow	C-2		Side airbag module LH
AB21	2	Black	C-3		Pretensioner LH
AB23	4	Yellow	C-3		Side airbag sensor LH
AB31	2	Black	B-4		Curtain airbag module LH

Rear Wiring Harness

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB32	4	Yellow	C-4		Curtain airbag sensor LH
AB51	2	Yellow	C-2		Buckle switch LH
AB52	2	Yellow	C-2		Seat position LH



WI-16126

Door Cord

WIRING SYSTEM

64. Door Cord

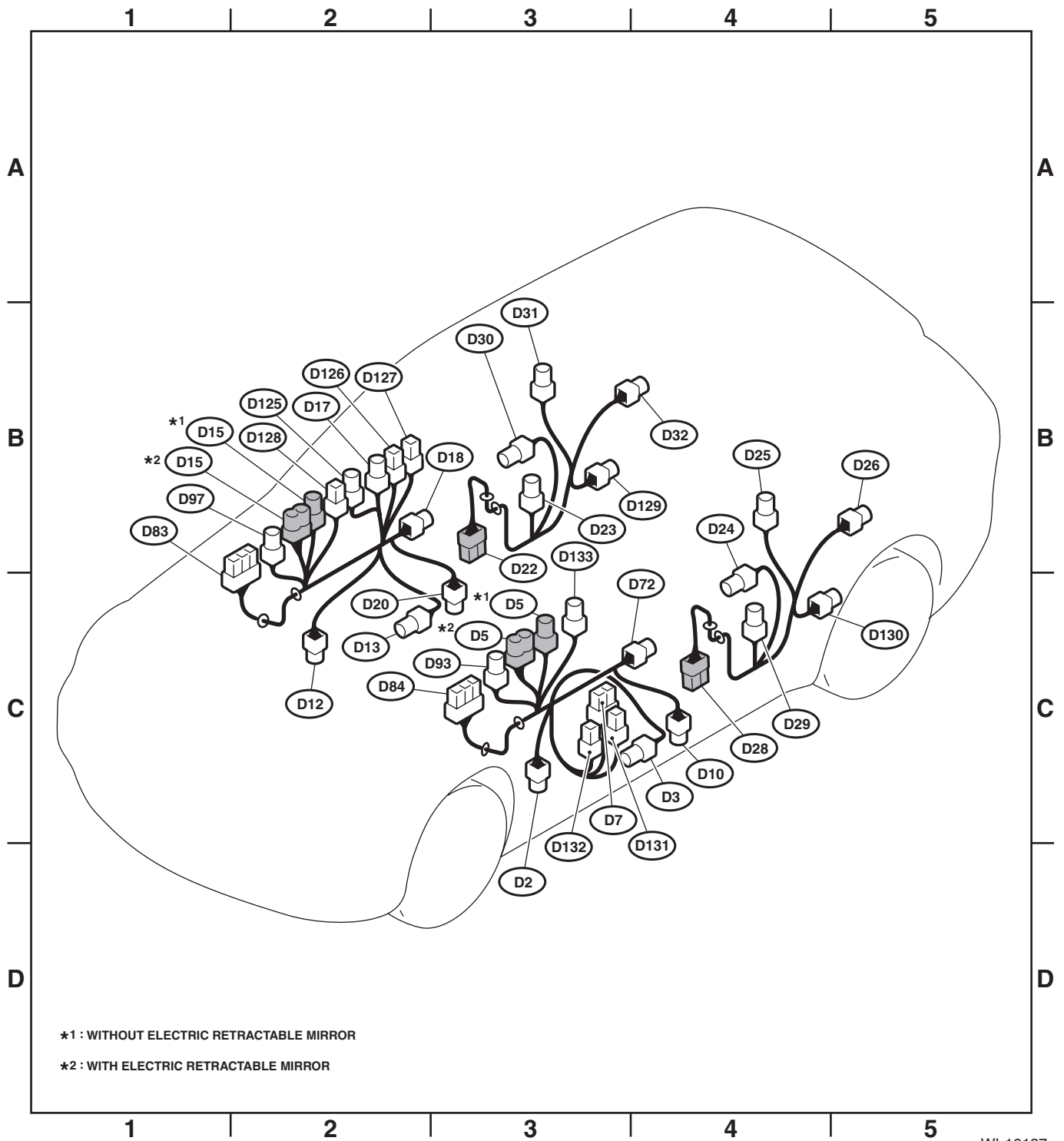
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D2	2	★	C-3		Front door speaker LH
D3	2	Gray	C-4		Front power window motor LH
D5	8	Gray	C-3		Remote control mirror LH (without electric retractable mirror)
	10	★	C-3		Remote control mirror LH (with electric retractable mirror)
D7	16	★	C-3		Power window main switch
D10	2	★	C-4		Front step light LH
D12	2	★	C-2		Front door speaker RH
D13	2	Gray	C-2		Front power window motor RH
D15	8	Gray	B-2		Remote control mirror RH (without electric retractable mirror)
	10	★	B-2		Remote control mirror RH (with electric retractable mirror)
D17	8	★	B-2		Front power window sub-switch
D18	4	★	B-2		Front door lock actuator RH
D20	2	★	C-3		Front step light RH
D22	10	★	B-3	R10	Rear wiring harness RH
D23	2	Black	B-3		Rear door speaker RH
D24	2	Gray	C-4		Rear power window motor LH
D25	8	★	B-4		Rear power window sub-switch LH
D26	4	★	B-5		Rear door lock actuator LH
D28	10	★	C-4	R13	Rear wiring harness LH
D29	2	Black	C-4		Rear door speaker LH
D30	2	Gray	B-3		Rear power window motor RH
D31	8	★	B-3		Rear power window sub-switch RH
D32	4	★	B-3		Rear door lock actuator RH
D72	4	★	C-4		Front door lock actuator LH
D83	25	★	B-2	i101	Instrument panel wiring harness
D84	25	★	C-3	i76	
D93	2	★	C-3		Front door tweeter LH
D97	2	★	B-2		Front door tweeter RH
D125	5	★	B-2		Passenger's seat door lock switch
D126	4	★	B-2		Joint connector
D127	4	★	B-2		
D128	4	★	B-2		
D129	2	★	B-3		Rear step light RH
D130	2	★	C-4		Rear step light LH
D131	4	★	C-3		Joint connector
D132	4	★	C-3		
D133	4	★	C-3		

★ : White or natural color

Door Cord

WIRING SYSTEM



WI-16127

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM

65.Rear Wiring Harness and Rear Gate Cord

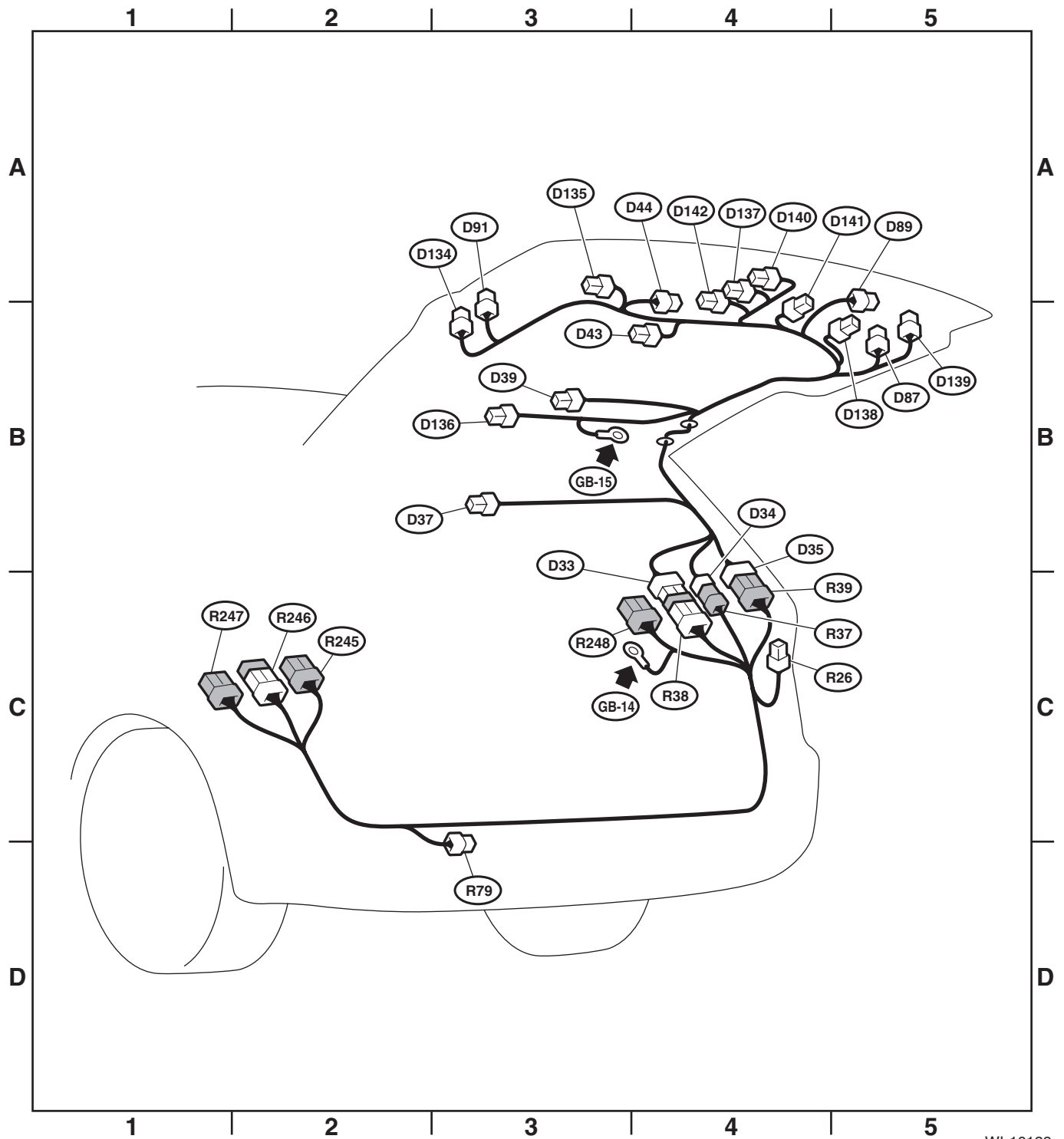
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D33	12	Gray	C-4	R38	Through joint connector
D34	2	★	C-4	R37	Rear wiring harness
D35	10	★	B-4	R39	
D37	3	★	B-3		Luggage room light
D39	2	★	B-3		High-mounted stop light
D43	4	★	B-4		Rear wiper motor
D44	2	★	A-4		License plate light LH
D87	2	★	B-5		Back-up light RH
D89	2	★	A-5		Rear defogger
D91	2	★	B-3		Back-up light LH
D134	2	★	B-3		Tail light LH
D135	2	★	A-3		Rear gate release switch
D136	1	★	B-3		Antenna amplifier
D137	2	★	A-4		License plate light RH
D138	3	★	B-5		Rear gate light
D139	2	★	B-5		Tail light RH
D140	4	★	A-4		Rear gate release actuator & door switch
D141	4	★	B-4		Joint connector
D142	4	★	A-4		
★ : White or natural color					

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
R26	4	★	C-4		Rear combination light RH
R37	2	★	C-4	D34	Rear gate cord
R38	12	Gray	C-4	D33	Through joint connector
R39	10	★	C-4	D35	Rear gate cord
R79	6	★	D-3		Trailer connector
R245	10	★	C-2	R217	Room cord (with rear entertainment)
R246	12	Black	C-2	R216	Through joint connector
R247	14	★	C-1	R215	Rear wiring harness
R248	10	★	C-4	R235	
★ : White or natural color					

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM



WI-16128

Rear Wiring Harness and Rear Gate Cord

WIRING SYSTEM
