

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.

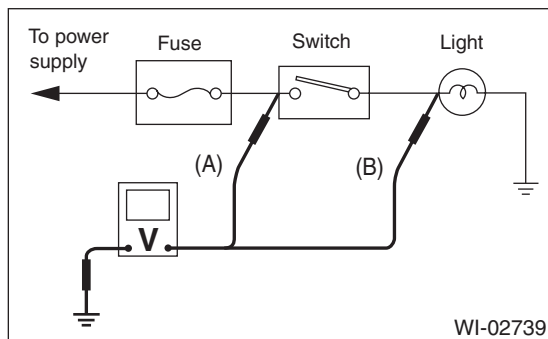
5. SYSTEM OPERATION CHECK

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.

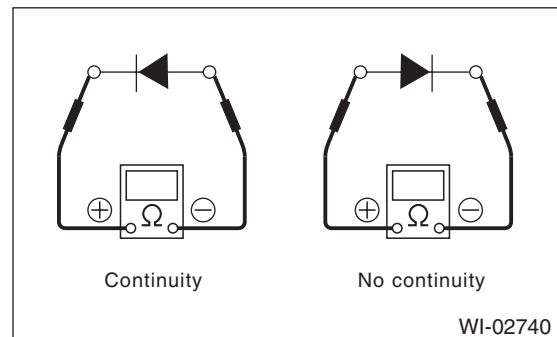
2. CIRCUIT CONTINUITY CHECKS

- 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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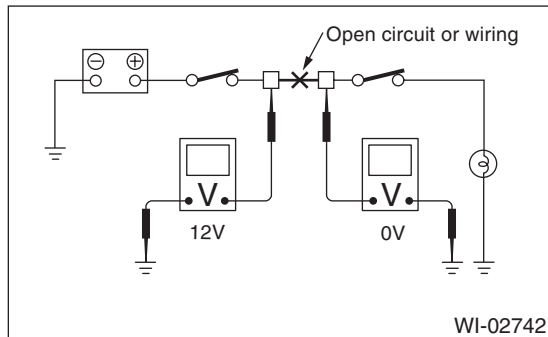
Basic Diagnostic Procedure

WIRING SYSTEM

3. HOW TO DETERMINE AN OPEN CIRCUIT

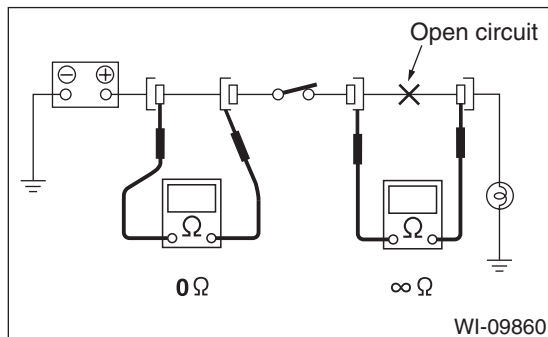
1) WITH VOLTMETER:

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:

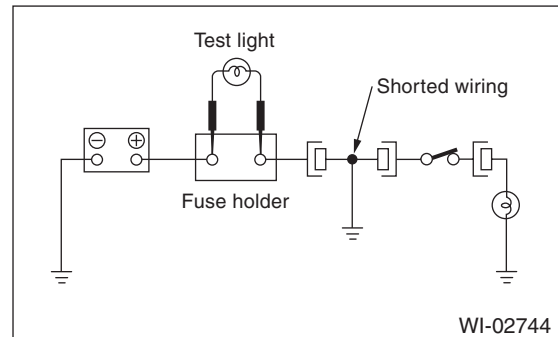
Disconnect all connectors affected, and check continuity in the wiring between adjacent connectors. When the ohmmeter indicates "infinite", the wiring is open.



4. HOW TO DETERMINE A SHORT CIRCUIT

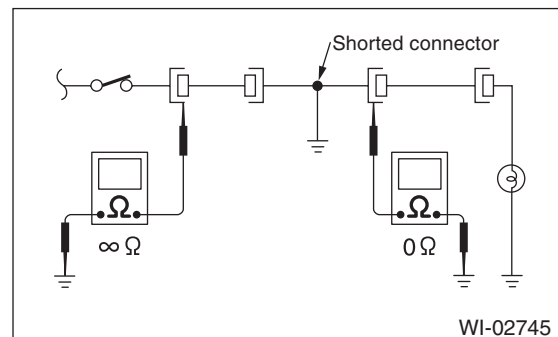
1) WITH TEST LIGHT:

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

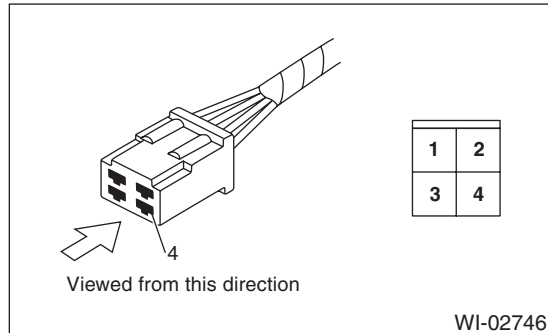
1. WIRING DIAGRAM

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.

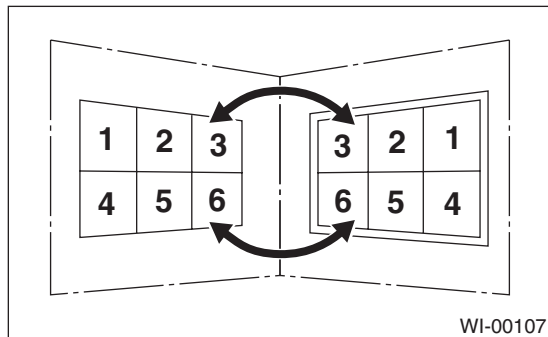
Connector used in vehicle	Connector shown in wiring diagram		
	Sketch	Symbol	Number of poles
	Double frames Indicates a lock is included. Indicates the number of poles.		Numbered in order from upper right to lower left.
	Indicates a lock is included. Single frame		Numbered in order from upper left to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



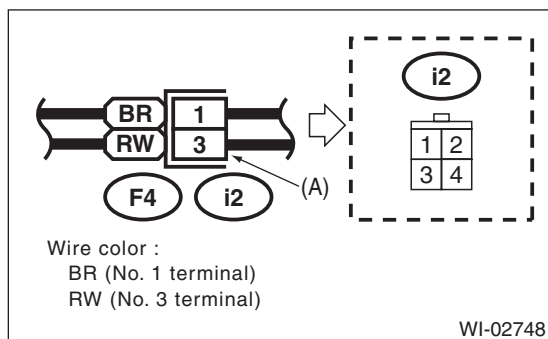
• WIRING DIAGRAM:

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

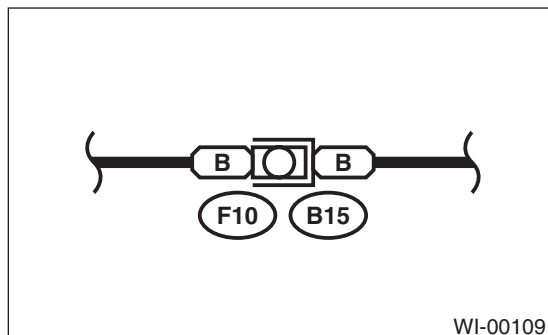
- The sketch of each connector in the wiring diagram usually shows the (A) side of the connector. The relationship between the wire color, terminal number and connector is described in the figure.

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.

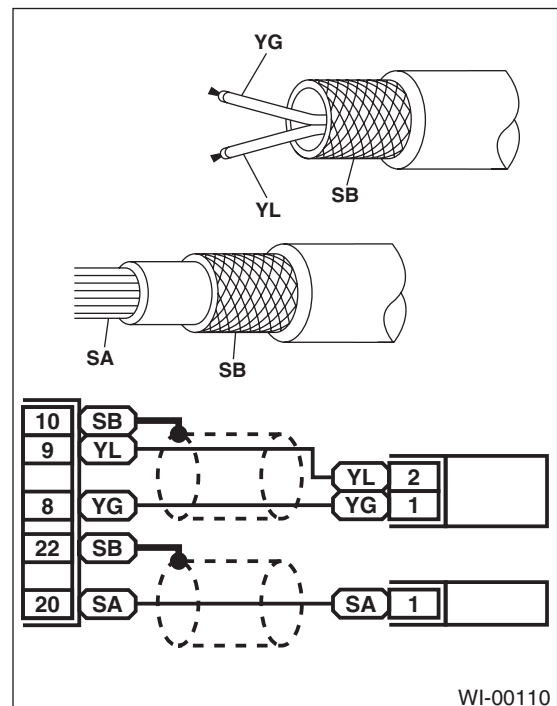


- In the wiring diagram, connectors which have no terminal number refer to one-pole types. Sketches of these connectors are omitted intentionally.

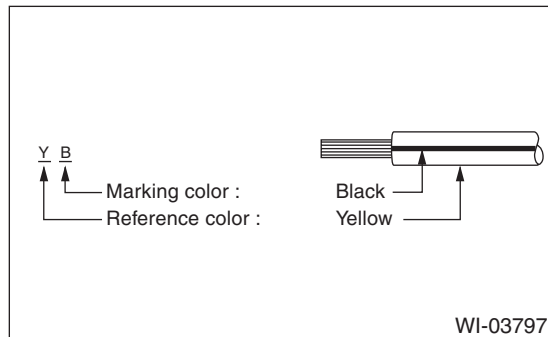


- The following color codes are used to indicate the colors of the wires.

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:

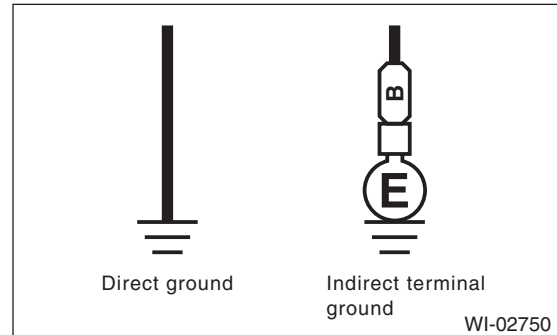
When replacing or repairing a wire, be sure to use the same size and type of the wire which was originally used.

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

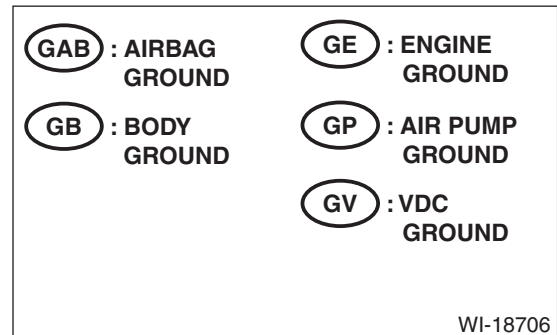
- Each unit is either directly grounded to the body or indirectly grounds through a harness ground terminal. Different symbols are used in the wiring diagram to identify the two grounding systems.



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

NOTE:

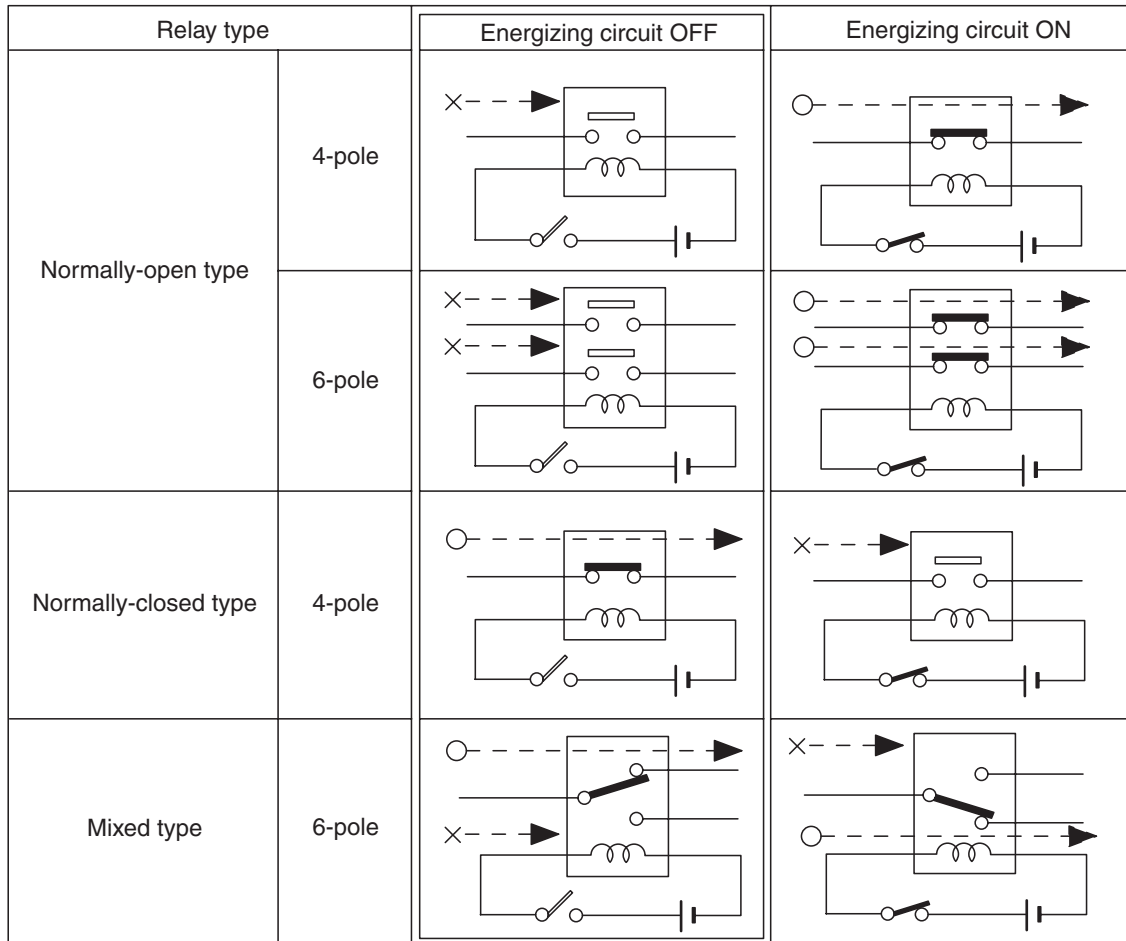
All wiring harnesses are provided with a ground point which must be securely connected.



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.



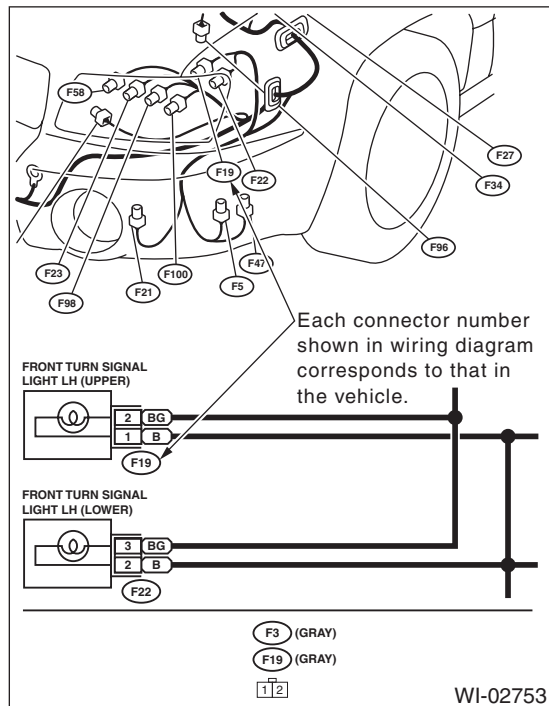
Key to symbols:

- —▶ : 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

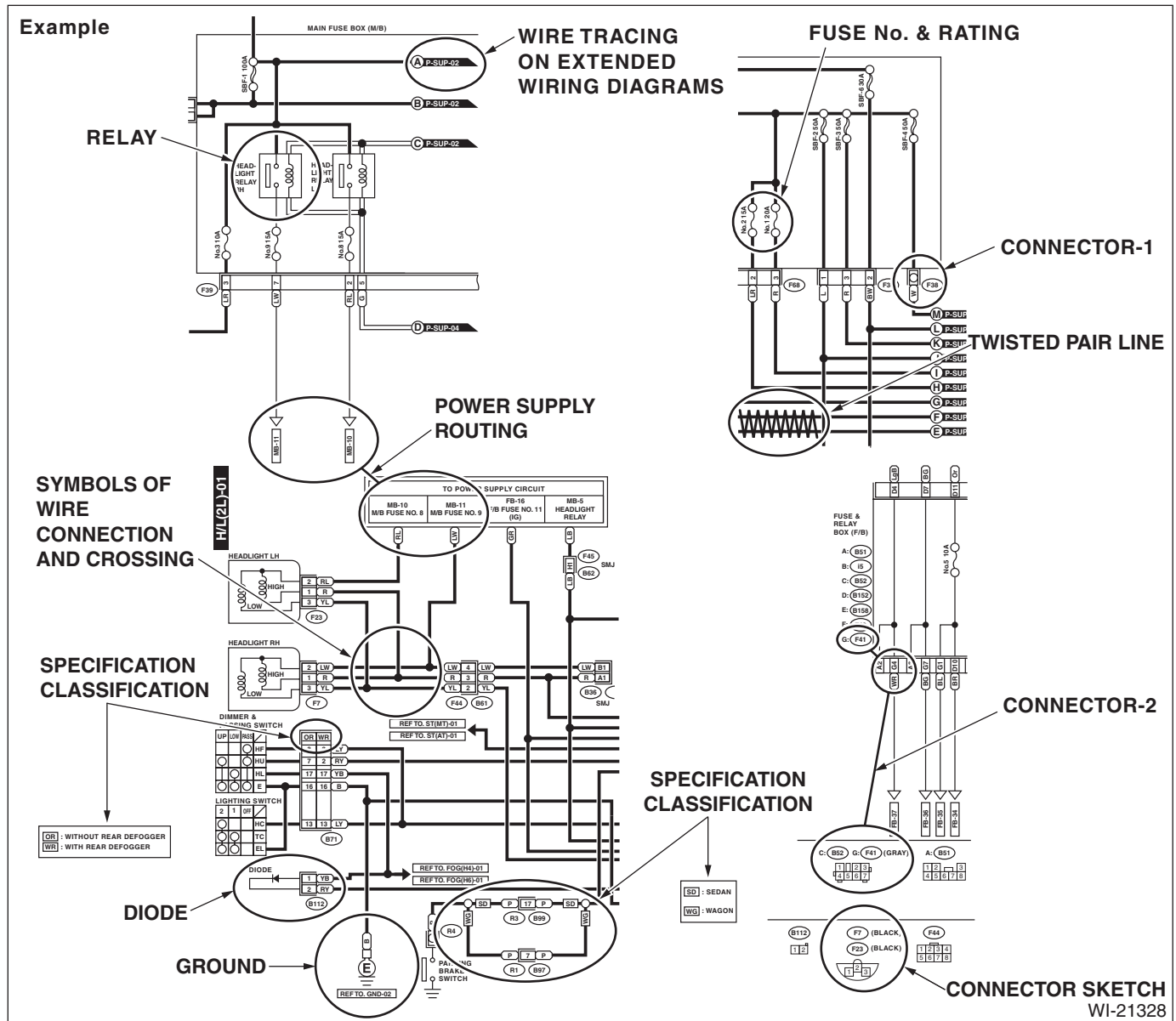


Basic Diagnostic Procedure

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

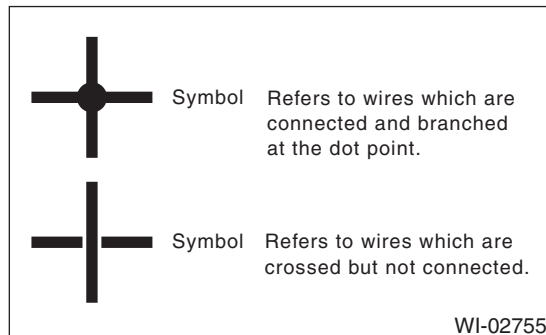
A symbol is used to indicate a diode.

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.

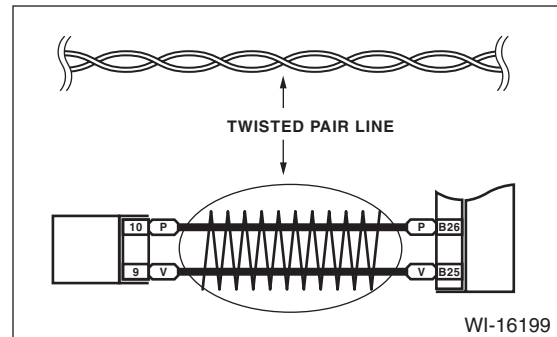
Accordingly, using the “DC POWER SUPPLY CIRCUIT” and wiring diagrams permits service personnel to understand the entire electrical arrangement of a system.

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.

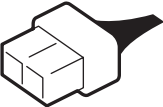
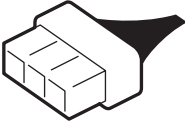
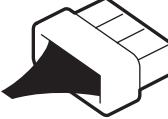
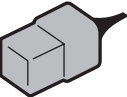
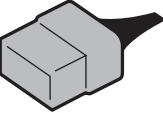
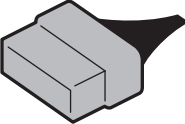


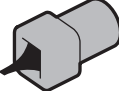
Basic Diagnostic Procedure

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
AT	Automatic Transmission
A/F	Air/Fuel (Air fuel ratio sensor)
ATF	Automatic transmission fluid
AUX	Auxiliary Audio Input Terminal
AWD	All Wheel Drive
B	Battery
CAN	Controller Area Network
CM	Control module
D	Drive range or Down
DN	Down
E	Ground
ECM	Engine Control Module
EEPROM	Electrically Erasable Programmable Read-Only Memory
EGR	Exhaust Gas Recirculation
F/B	Fuse & Relay Box
FL	Front Left
FR	Front Right
FWD	Front Wheel Drive
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
MT	Manual Transmission
N	Neutral Range
NA	Natural Aspiration
NAVI	Navigation
OP	Open or Optional Parts
P	Parking Range
PASS	Passing
PCV	Positive Crankcase Ventilation Valve
R	Reverse Range
RH	Right Hand
RL	Rear Left
RR	Rear Right
SBF	Slow Blow Fuse
ST	Starter

Abbr.	Full name
SW	Switch
TCM	Transmission Control Module
TPMS	Tire Pressure Monitor System
VDC	Vehicle Dynamics Control
VFD	Vacuum Fluorescent Display
WASH	Washer

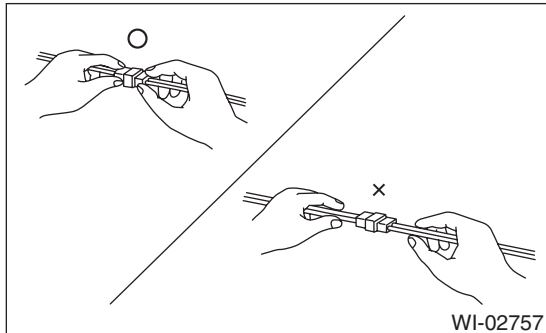
2. Working Precautions

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

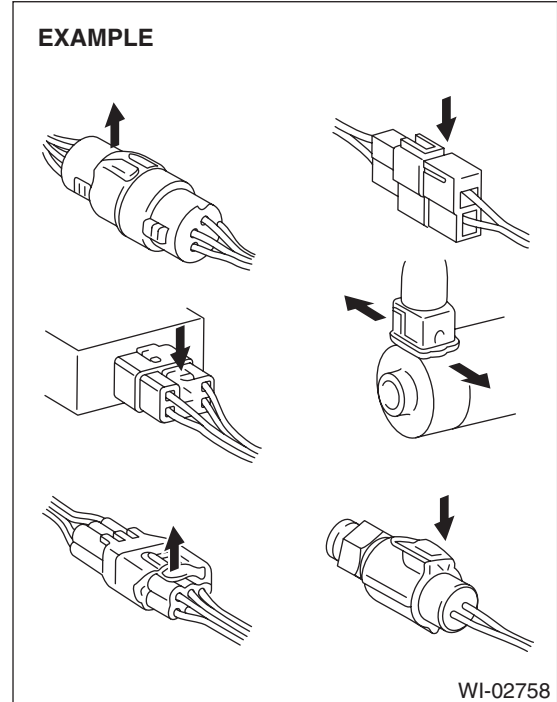
- 1) When working under a vehicle which is jacked-up, always be sure to use rigid rack.
- 2) The parking brake must always be applied during working. Also, in automatic transmission vehicles, keep the select lever set to the P (Parking) range.
- 3) Be sure the workshop is properly ventilated when running 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.

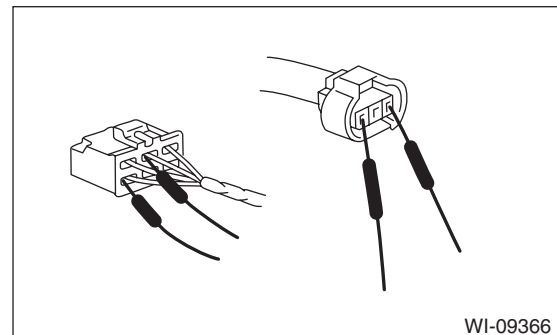


- 5) Some connectors are provided with a lock. One type of such a connector is disconnected by pushing the lock, and the other, by moving the lock up. In either type the lock shape must be identified before attempting to disconnect the connector. To connect, insert the connector until it snaps and confirm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



- 6) When checking continuity between connector terminals, or measuring voltage across the terminal and ground, always 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.

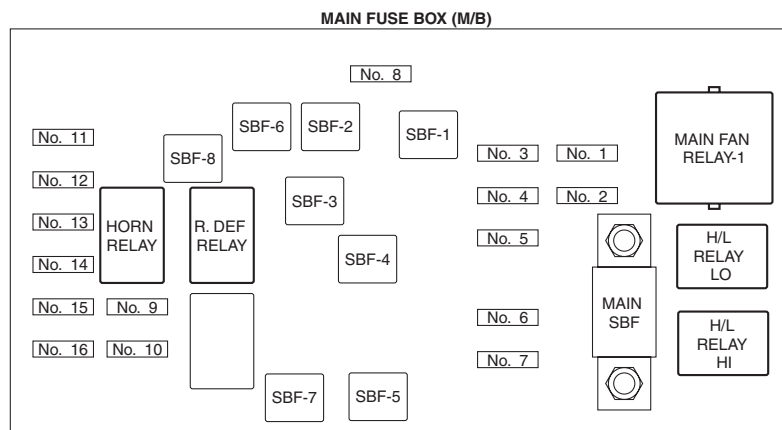


- 7) Sensors, relays, electrical unit, etc., are sensitive to strong impacts. Handle them with care so that they are not dropped or mishandled.

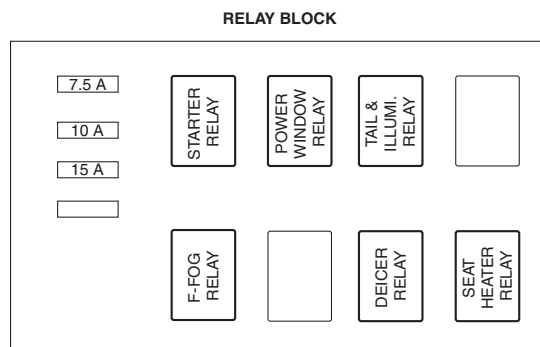
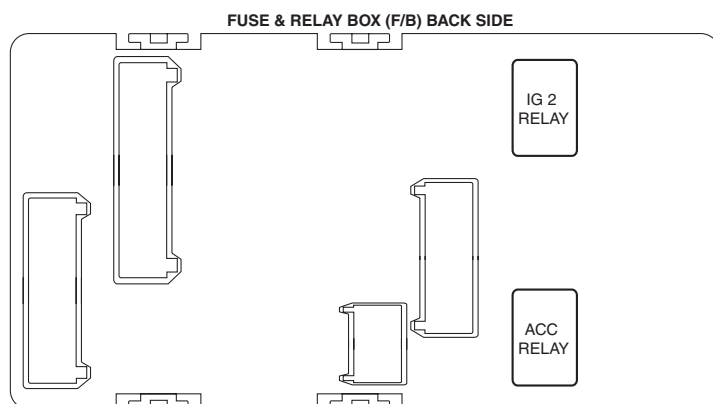
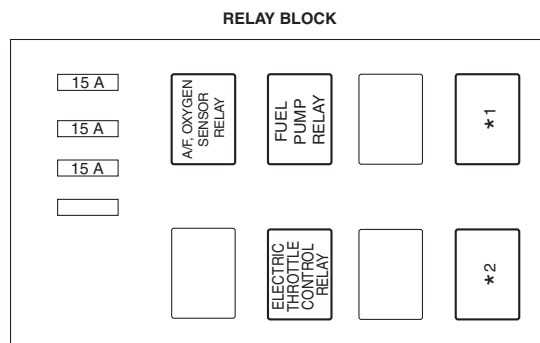
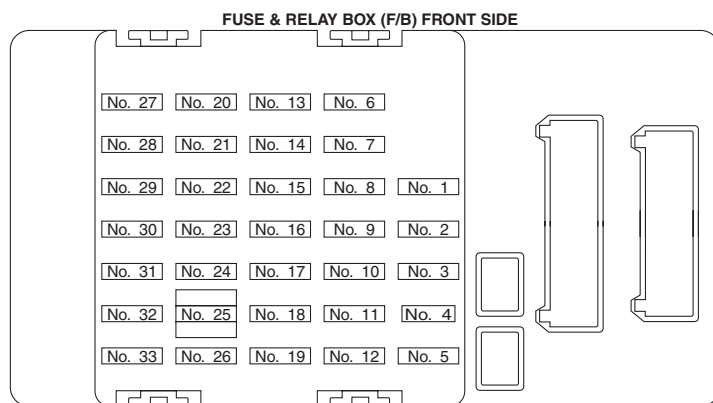
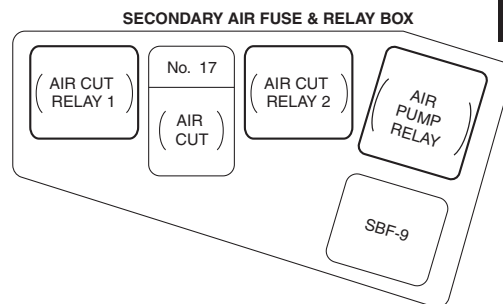
3. Power Supply Circuit

A: WIRING DIAGRAM

P-SUP-01



P-SUP-01

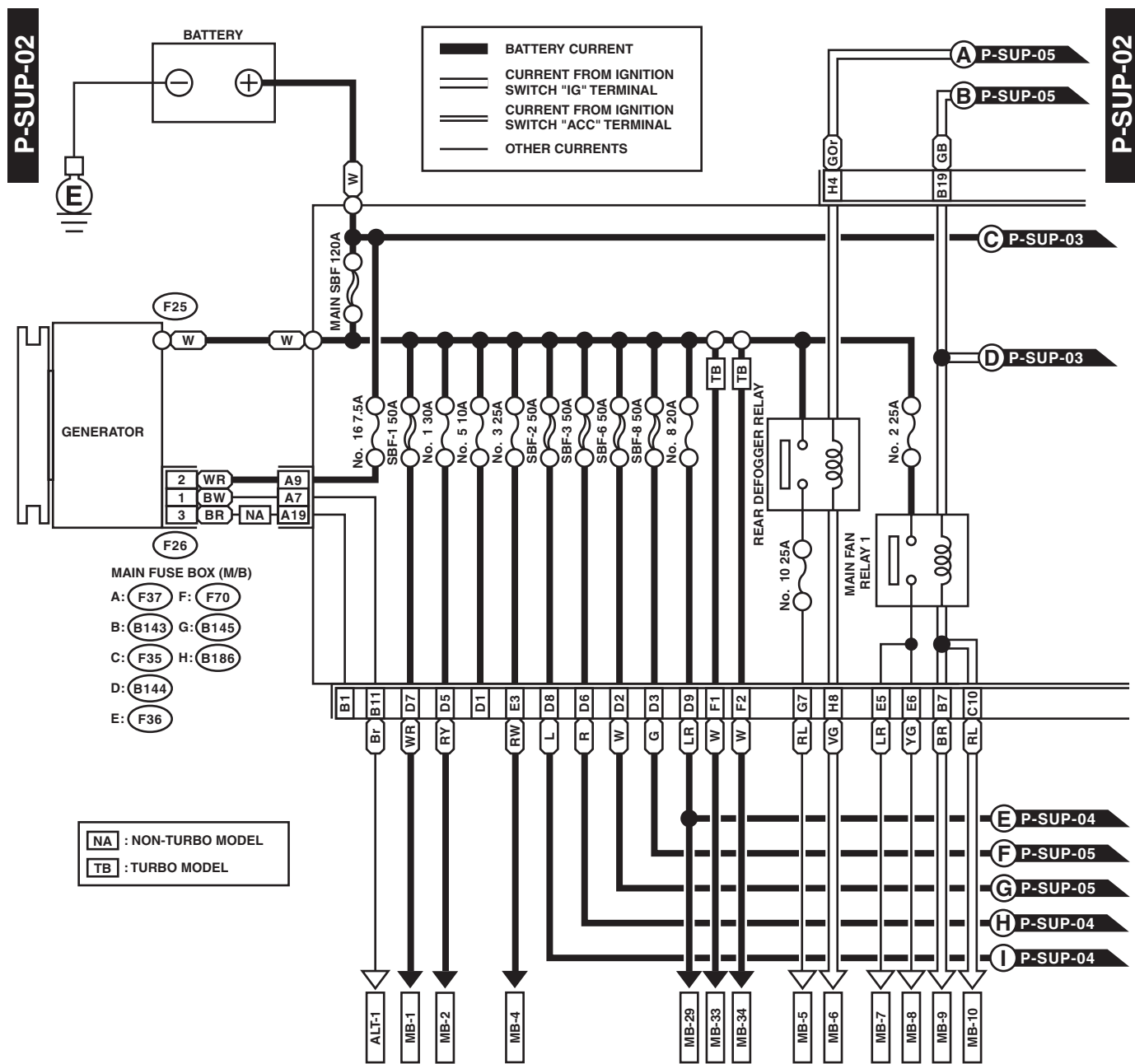


★1 : NON-TURBO MODEL : IG RELAY
TURBO MODEL : MAIN RELAY
★2 : NON-TURBO MODEL : MAIN RELAY

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Power Supply Circuit

WIRING SYSTEM



F: F70	F26	G: B145 (BROWN)	H: B186	D: B144 (BROWN)	C: F35 (BLUE)	B: B143	A: F37
1 2	1 2 3	E: F36	1 2 3 4	1 2 3 4	1 2 3 4 5	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9
4 5 6 7	4 5 6 7	1 2 3 4	5 6 7 8 9	5 6 7 8 9	6 7 8 9 10 11 12	10 11 12 13 14 15 16 17 18 19 20	10 11 12 13 14 15 16 17 18 19 20

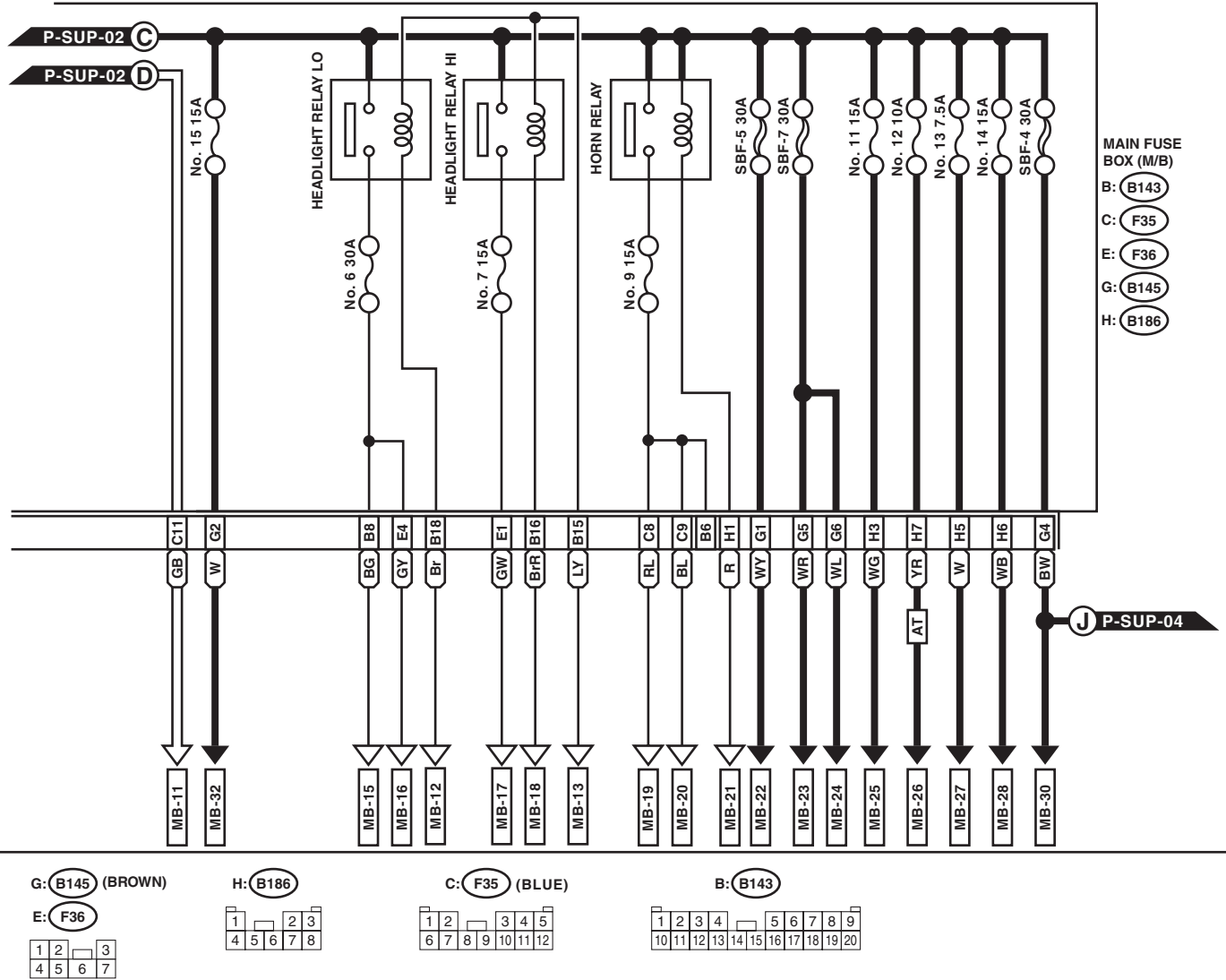
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Power Supply Circuit

WIRING SYSTEM

P-SUP-03

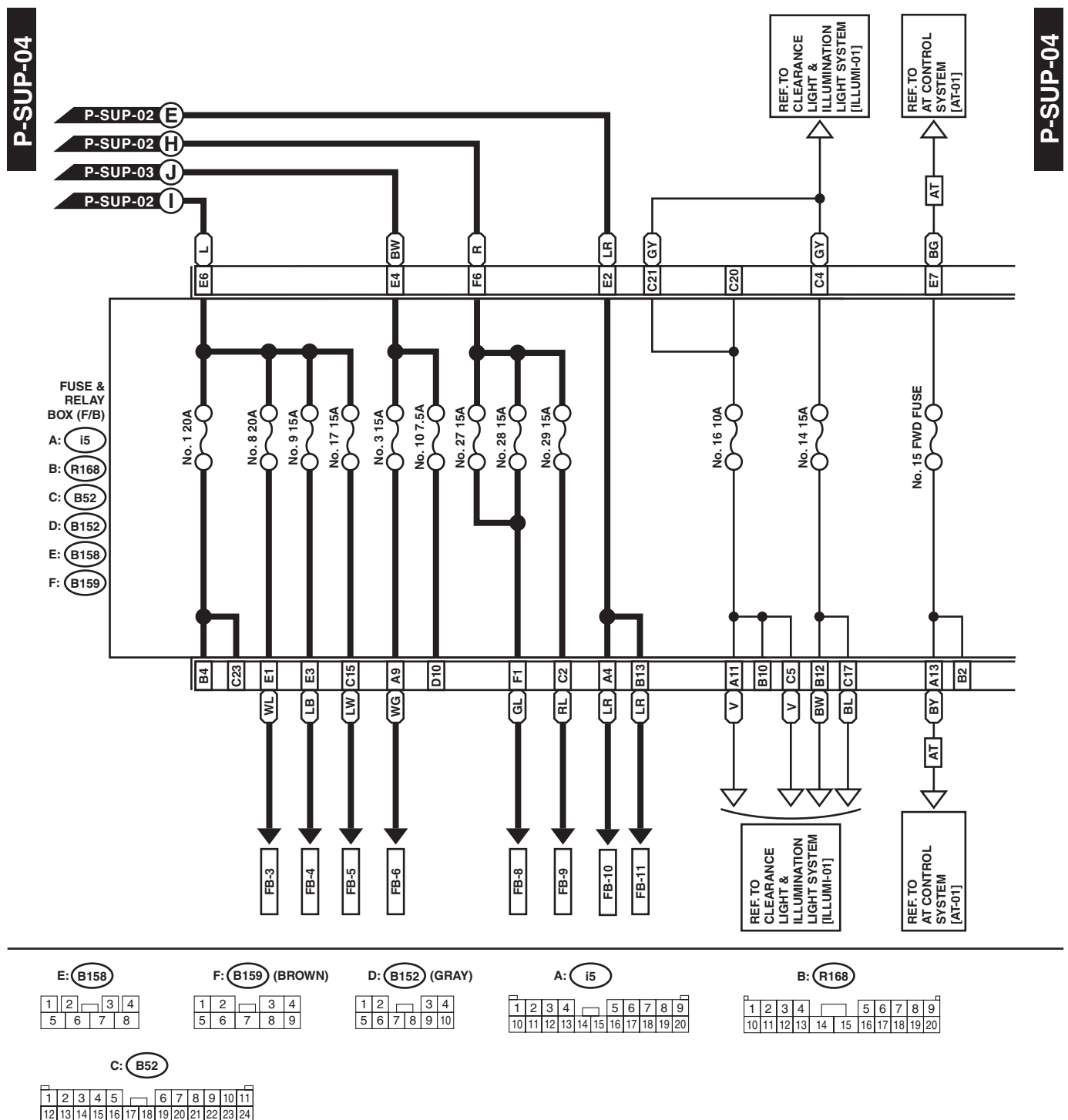
P-SUP-03



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Power Supply Circuit

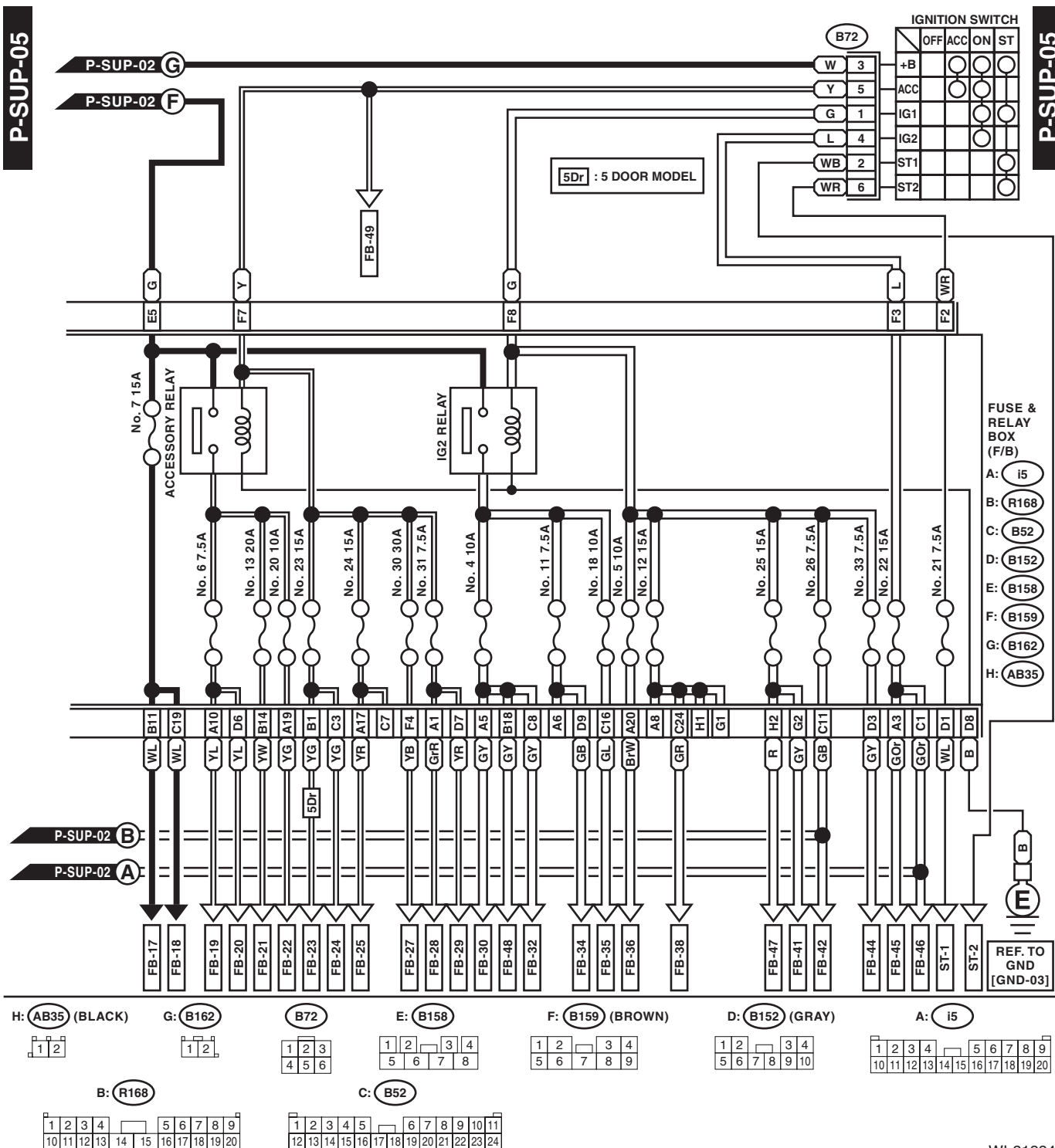
WIRING SYSTEM



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Power Supply Circuit

WIRING SYSTEM



WI-21384

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
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
	Remote engine start CM
MB-22	A/F, oxygen sensor relay
MB-23	Main relay
	IG relay
	A/F, oxygen sensor relay
MB-24	Electronic throttle control relay
MB-25	Fuel pump relay
MB-26	TCM
MB-27	ECM
	Data link connector
MB-28	Key illumination
	Key warning switch
	Turn signal and hazard unit
	Body integrated unit
MB-29	Spot map light
	Room light
	Body integrated unit
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	Starter relay

No.	Load
ST-2	Starter relay
	ECM
	Clutch start switch
FB-3	Stop light and brake switch
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
	Navigation unit
FB-11	Keyless entry CM
	Trunk room light (4 door model)
	Luggage room light (5 door model)
FB-17	A/C control panel
	Combination meter
	TPMS CM
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
	Compass 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
FB-29	Body integrated unit
FB-30	Navigation unit
FB-32	ECM
	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	Inhibitor switch
	Back-up light switch

No.	Load
FB-36	Combination meter
	Clock
FB-38	ECM
	TCM
	Body integrated unit
	Fuel pump relay
	Ignition coil No. 1
	Ignition coil No. 2
	Ignition coil No. 3
	Ignition coil No. 4
	Rear vehicle speed sensor
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 CM
FB-49	Front washer motor

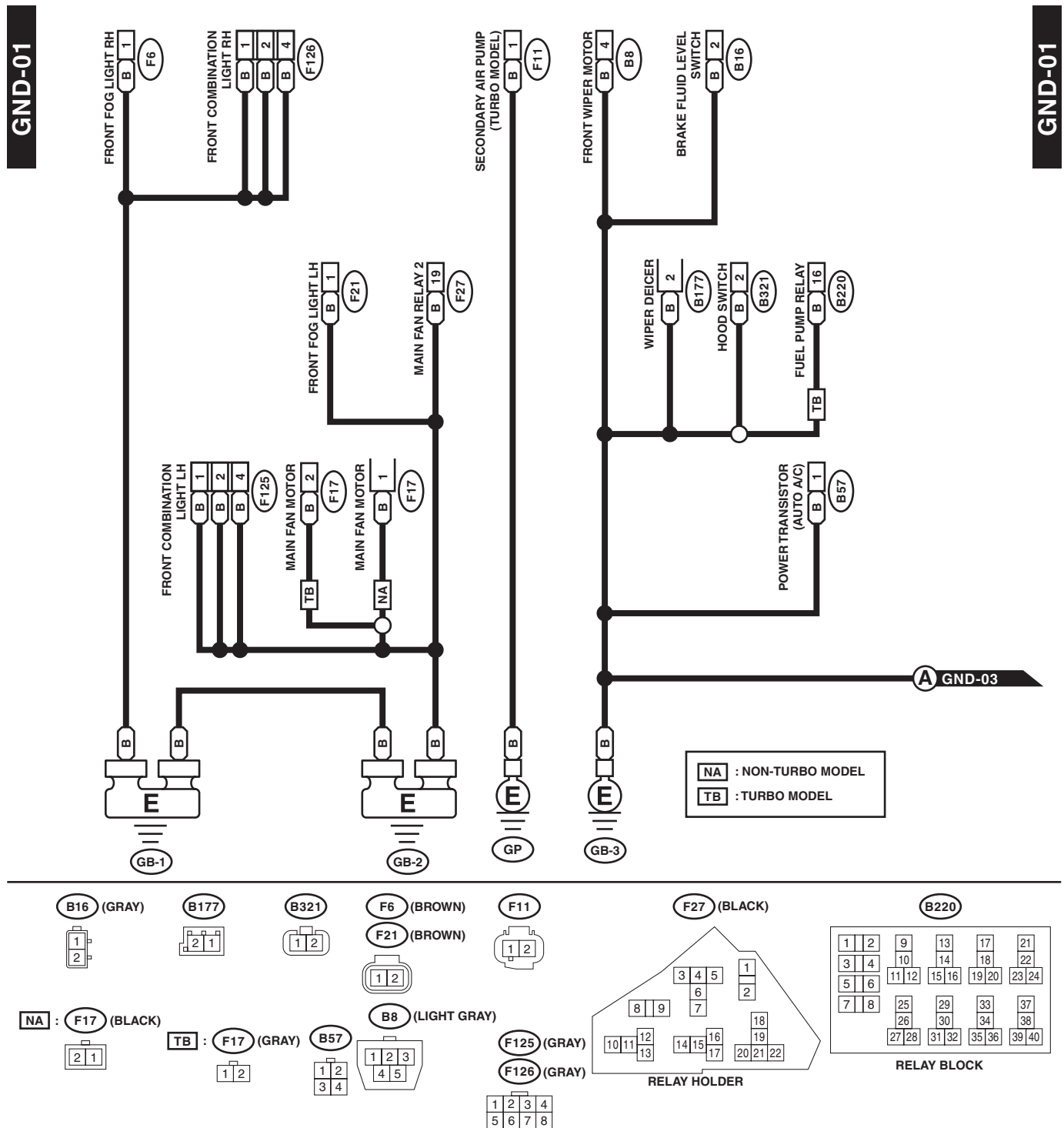
Ground Circuit

WIRING SYSTEM

4. Ground Circuit

A: WIRING DIAGRAM

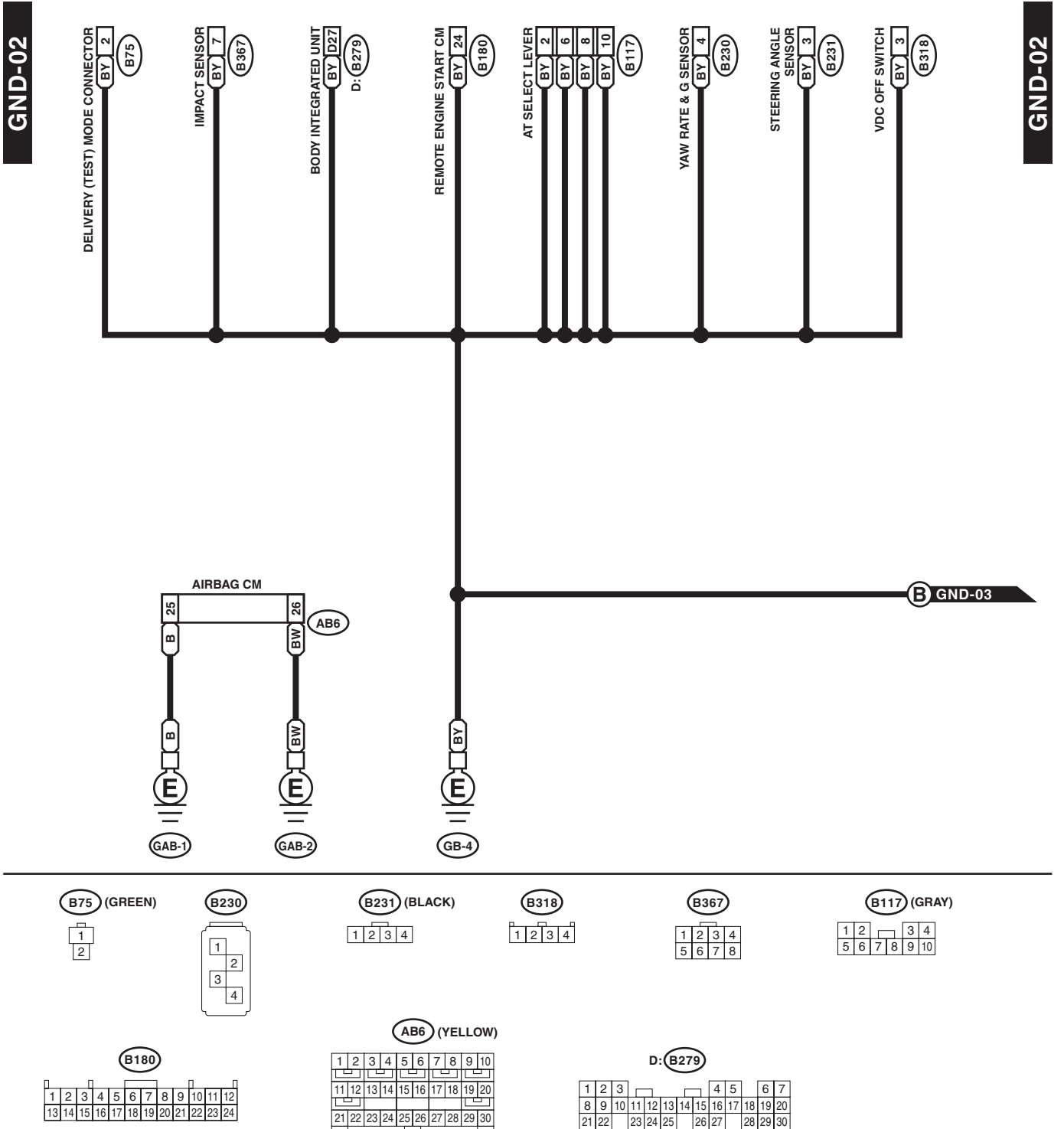
1. CHASSIS GROUND



WI-26989

Ground Circuit

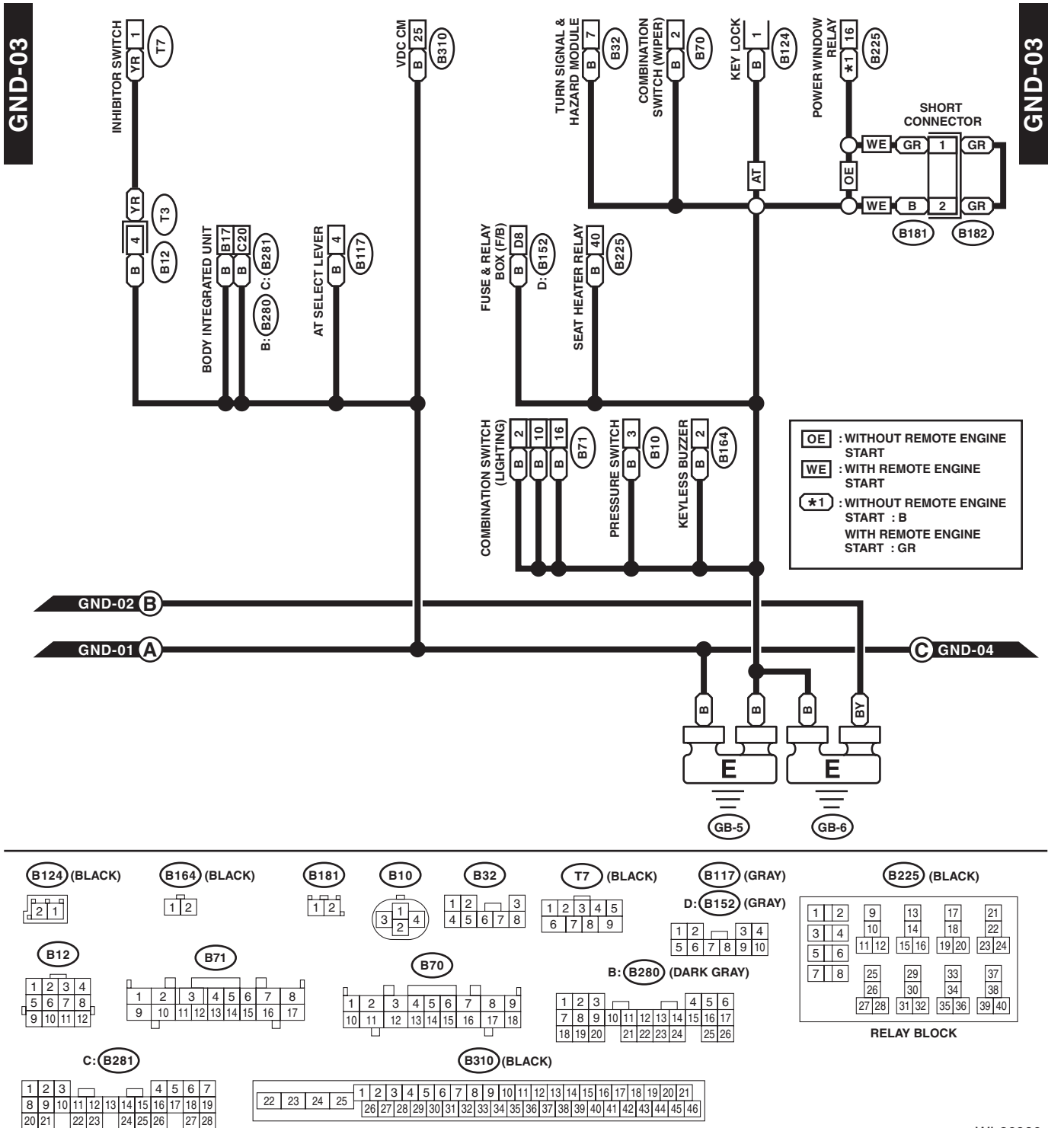
WIRING SYSTEM



WI-27035

Ground Circuit

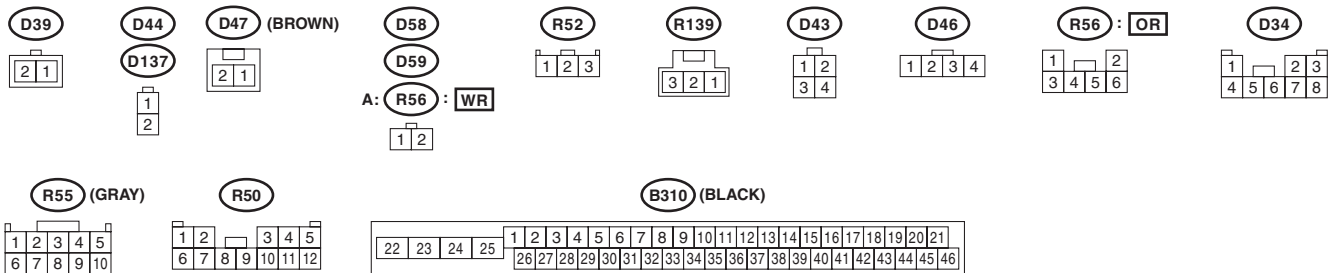
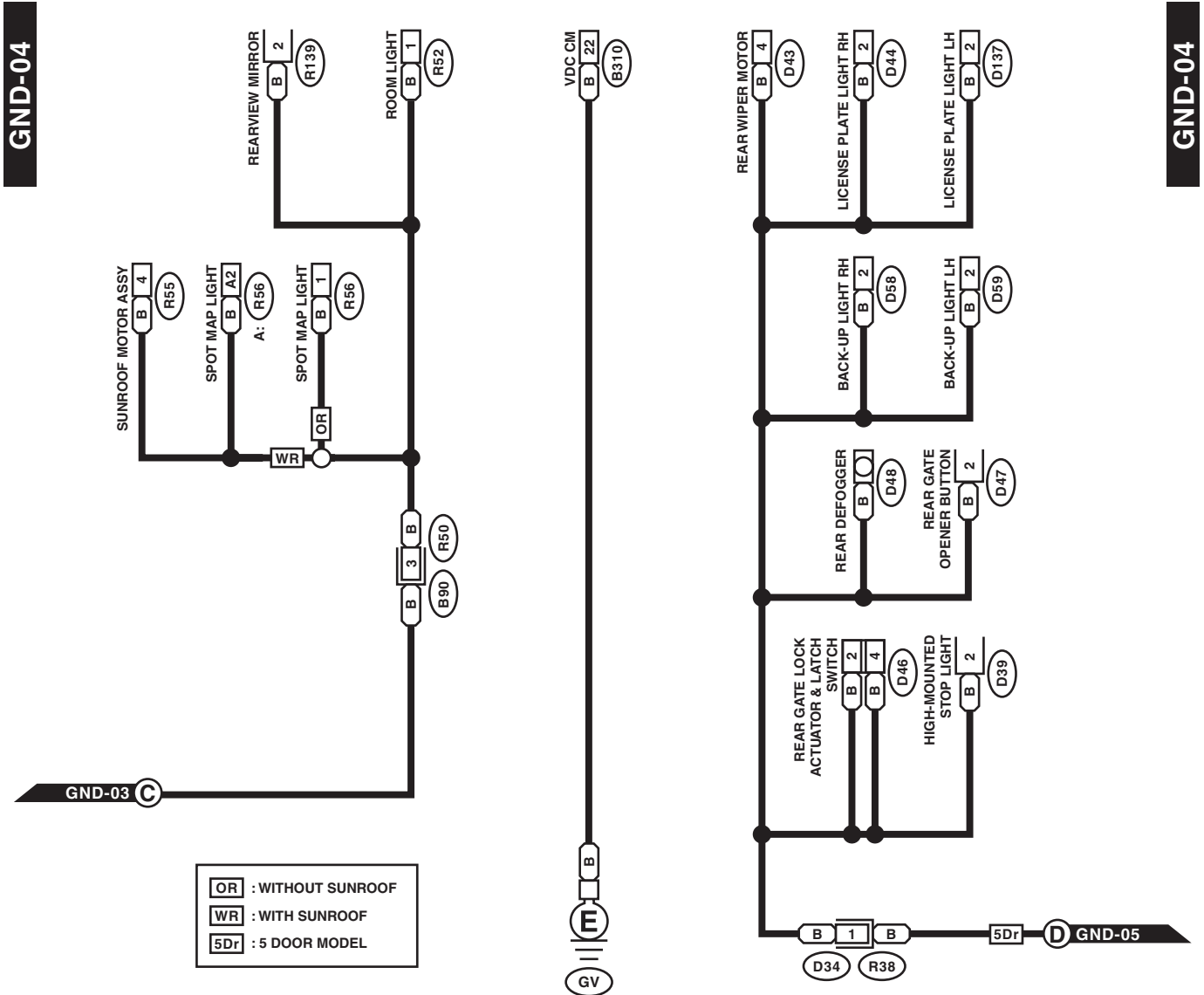
WIRING SYSTEM



WI-26990

Ground Circuit

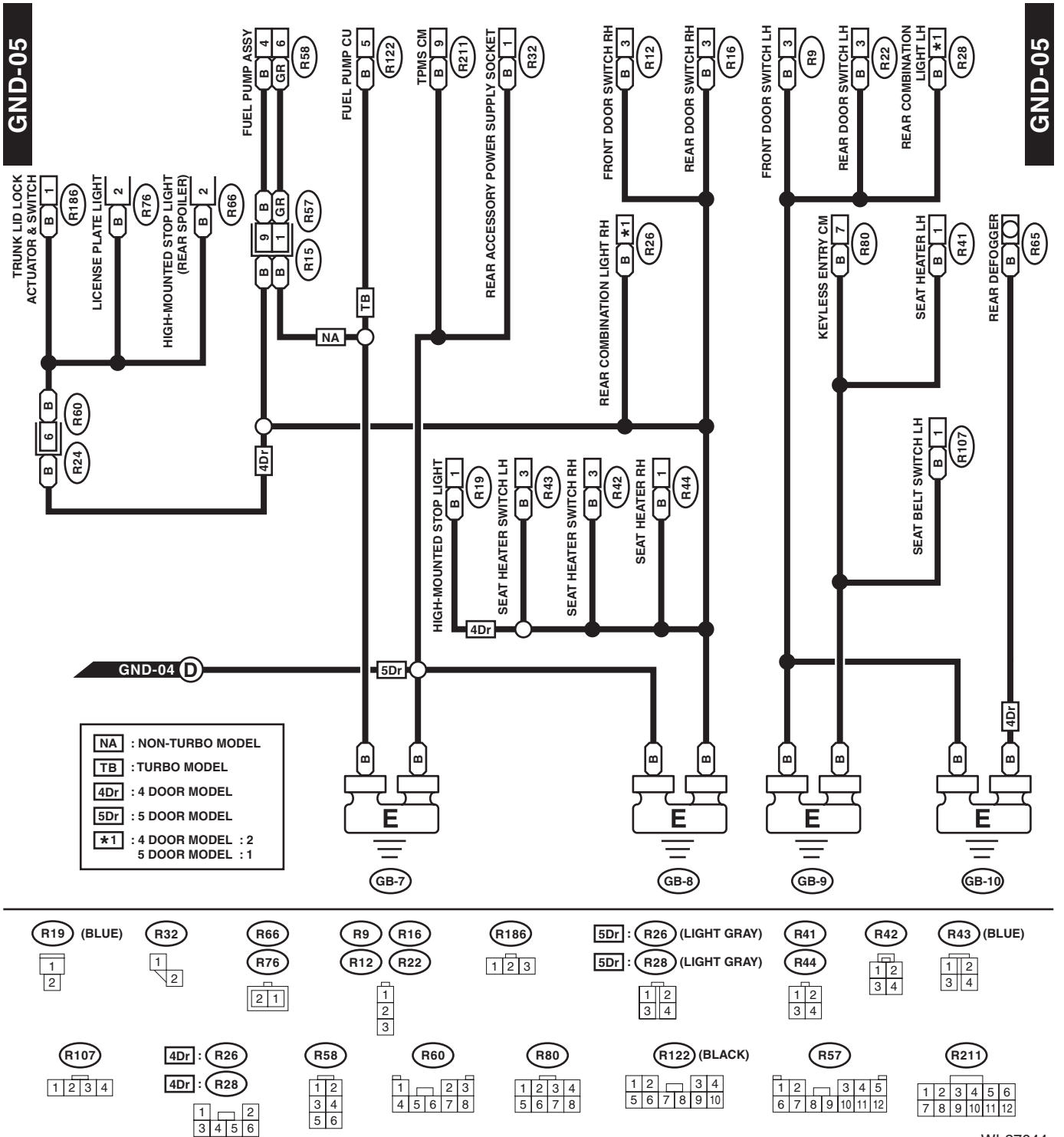
WIRING SYSTEM



WI-26991

Ground Circuit

WIRING SYSTEM



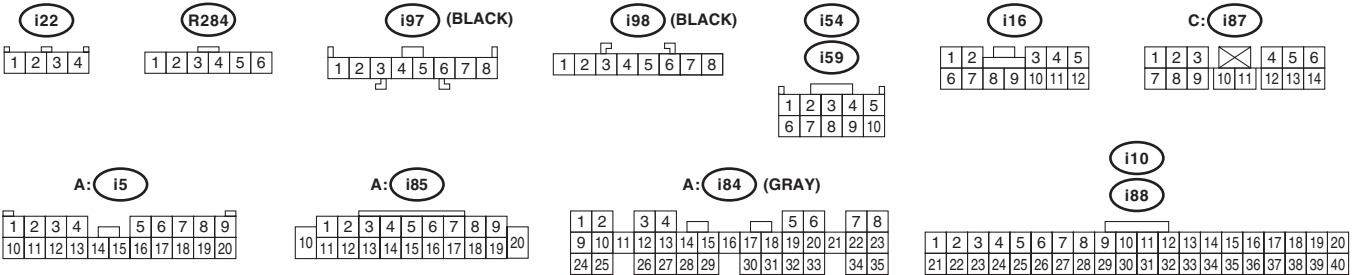
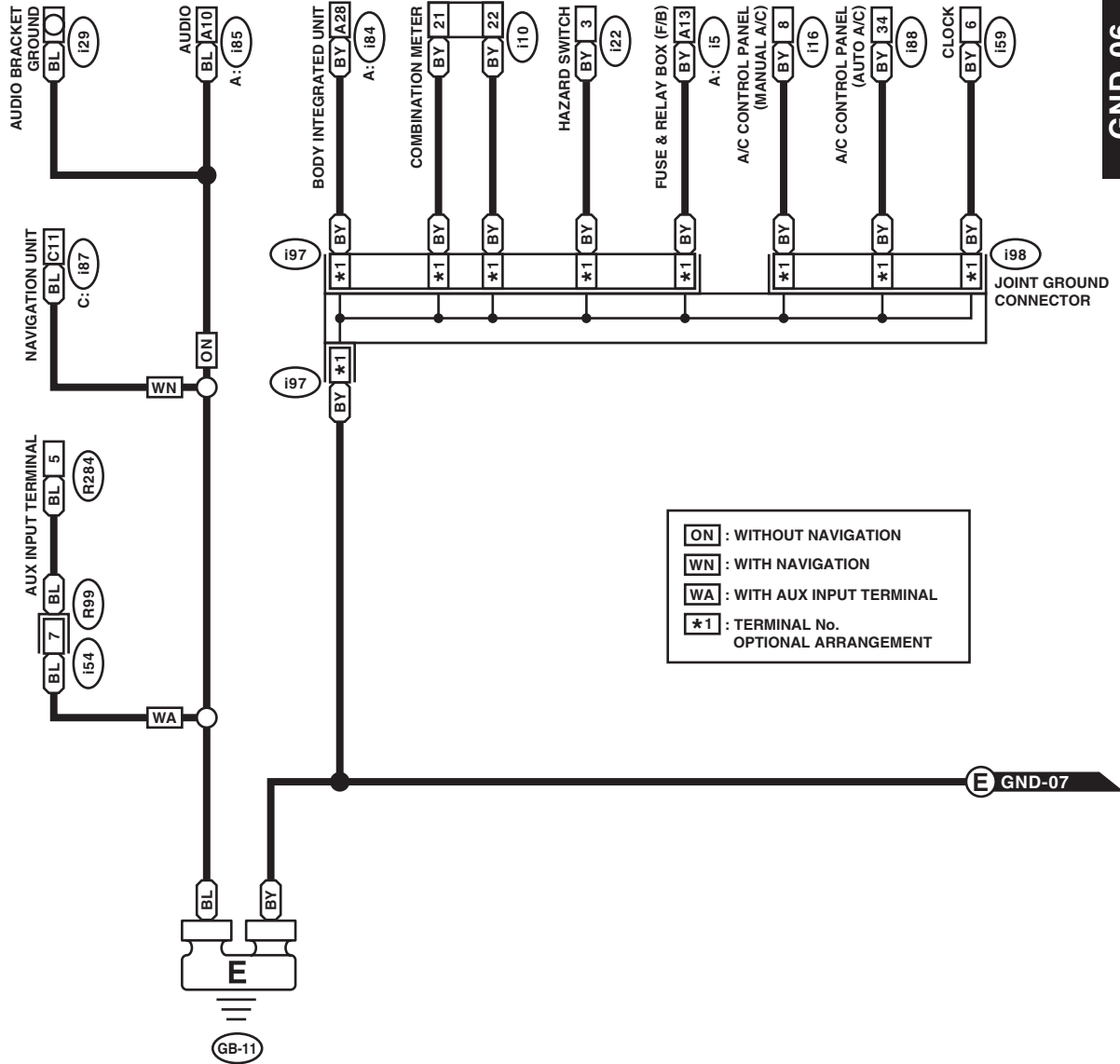
WI-27044

Ground Circuit

WIRING SYSTEM

GND-06

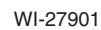
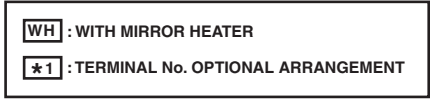
GND-06



WI-21389

WIRING SYSTEM

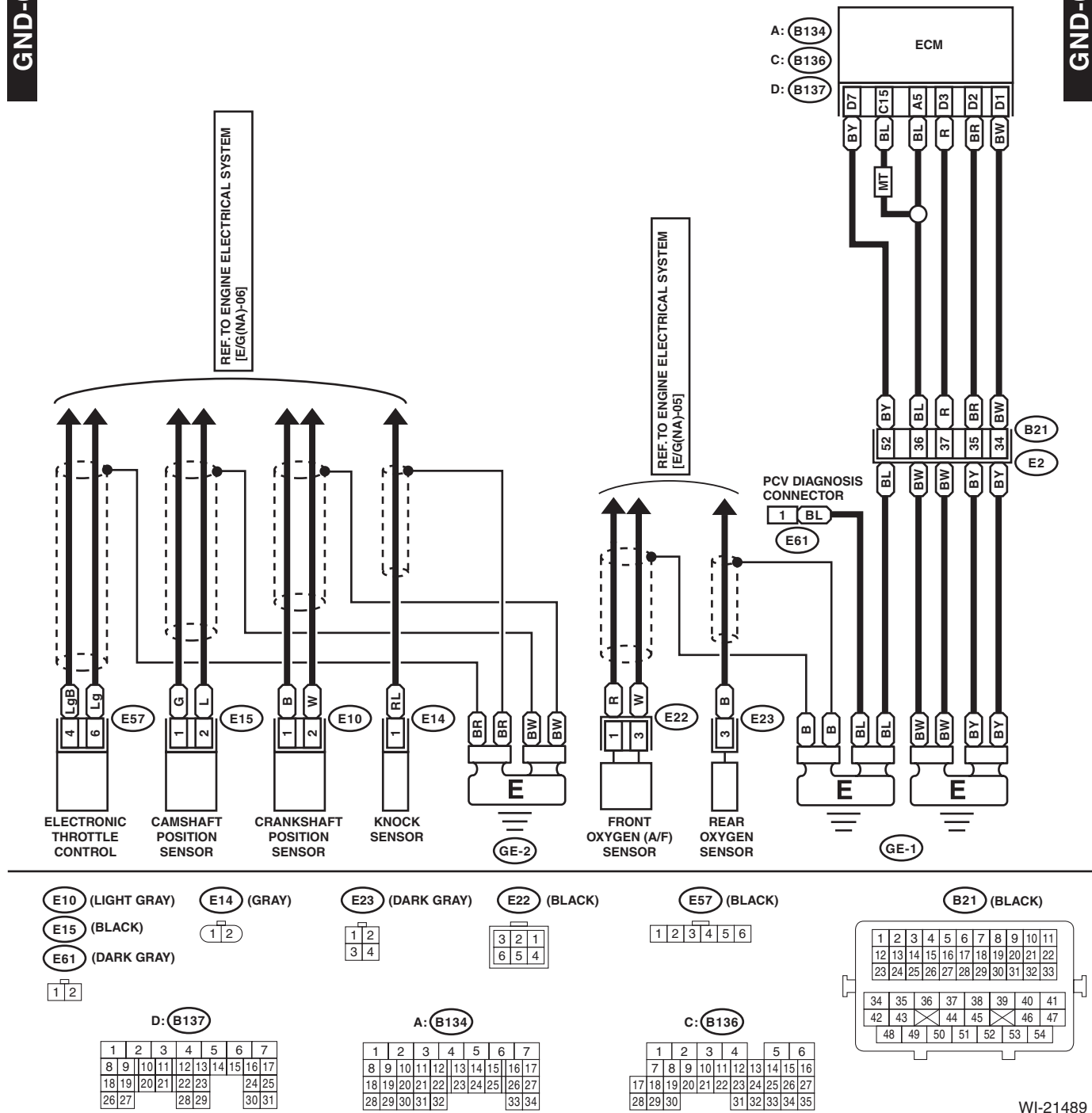
GND-07



2. ENGINE GROUND (NON-TURBO MODEL)

GND-08

GND-08



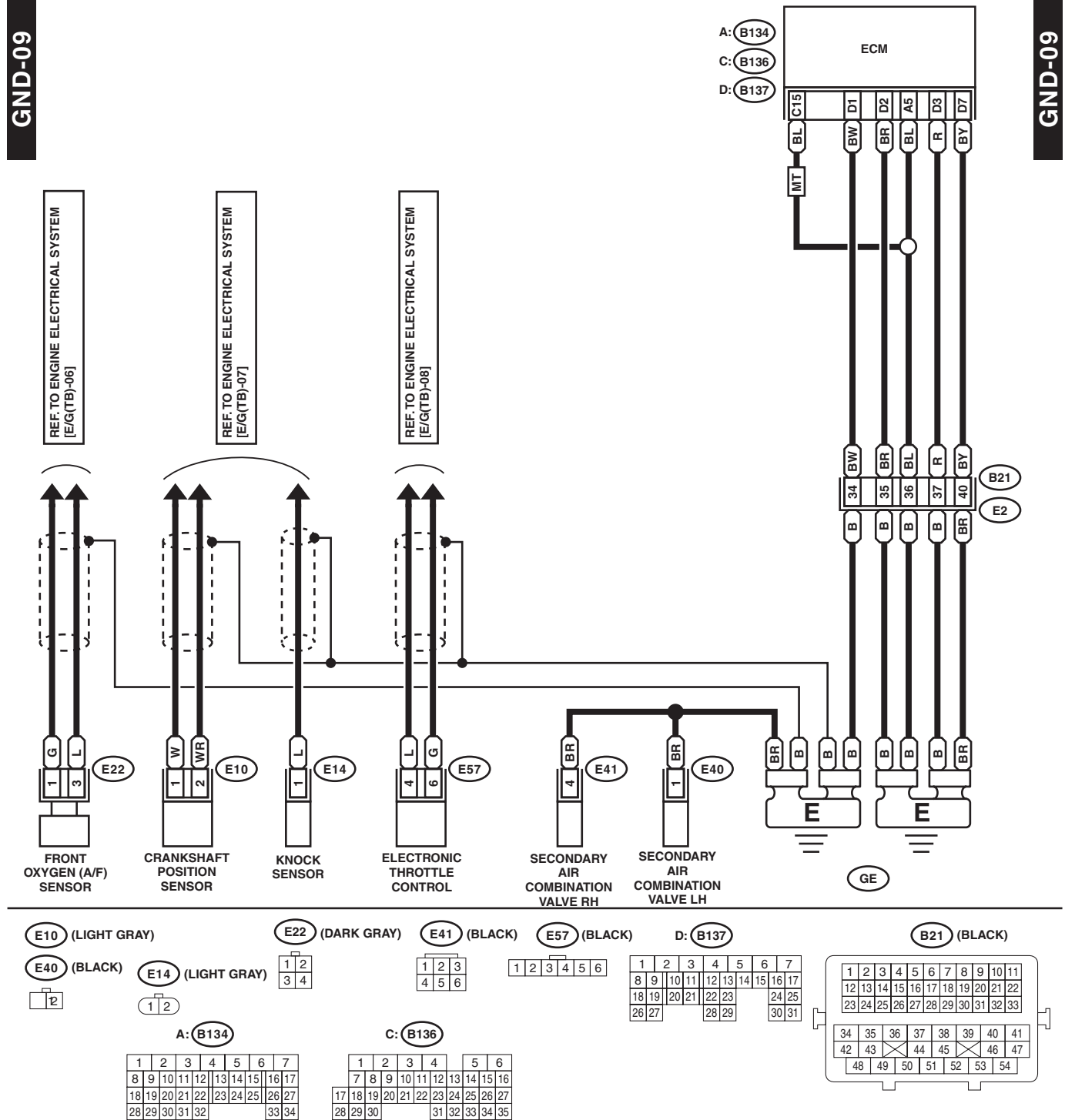
WI-21489

WIRING SYSTEM

3. ENGINE GROUND (TURBO MODEL)

GND-09

GND-09

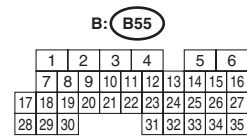
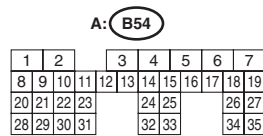
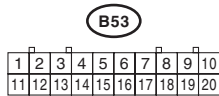
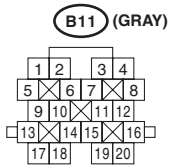
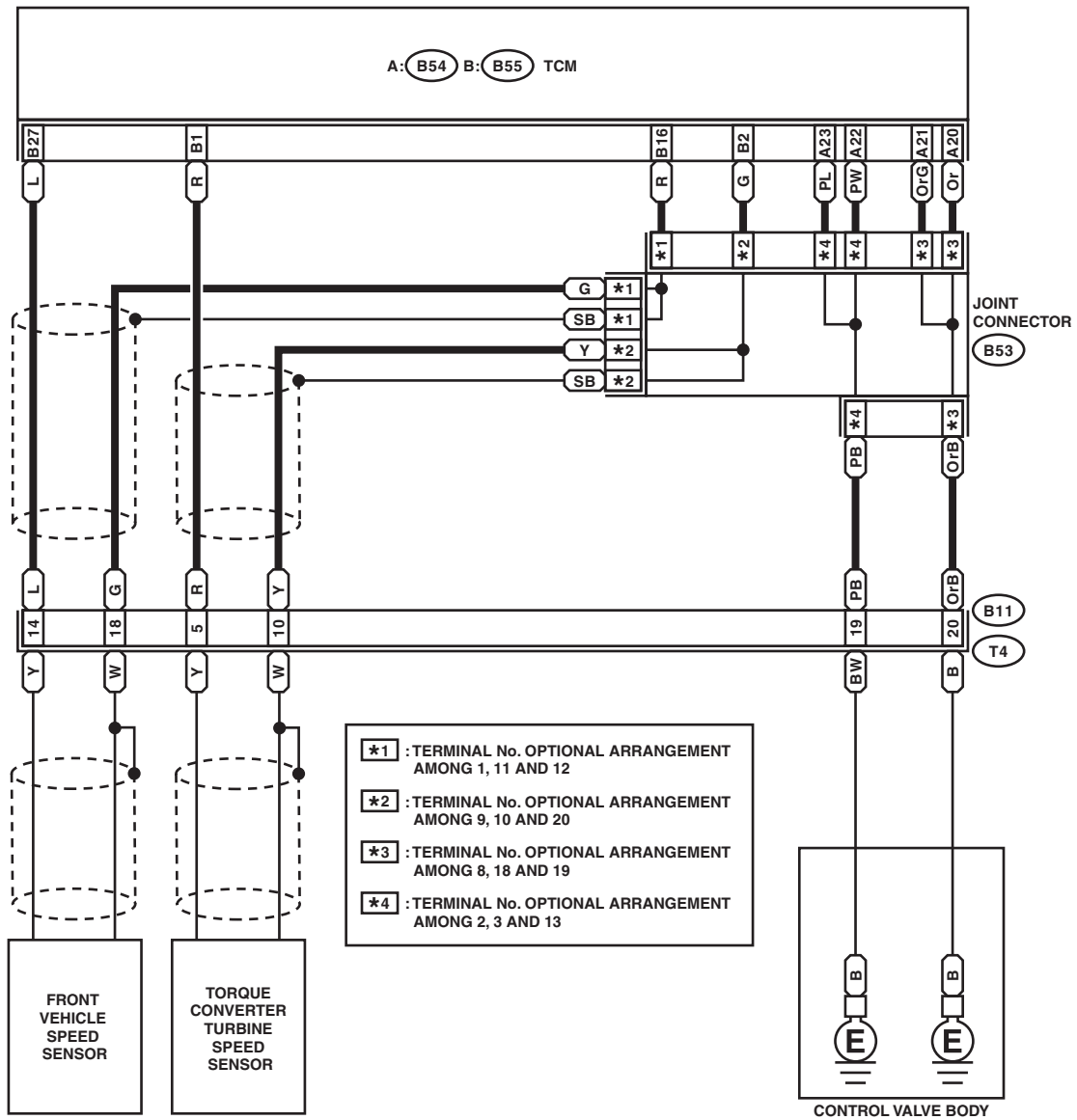


WI-21490

4. TRANSMISSION GROUND (AT MODEL)

GND-10

GND-10



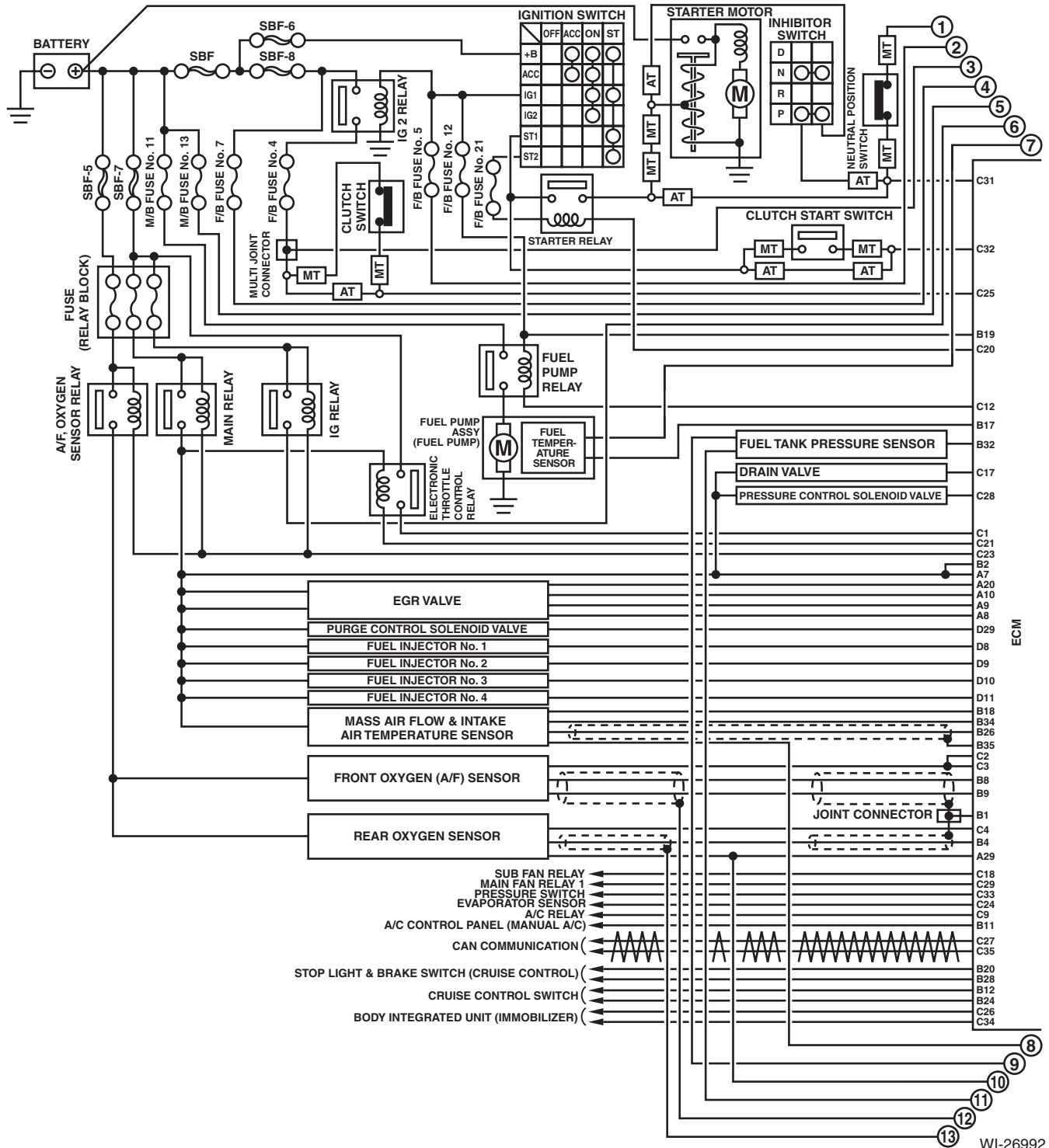
Engine Electrical System

WIRING SYSTEM

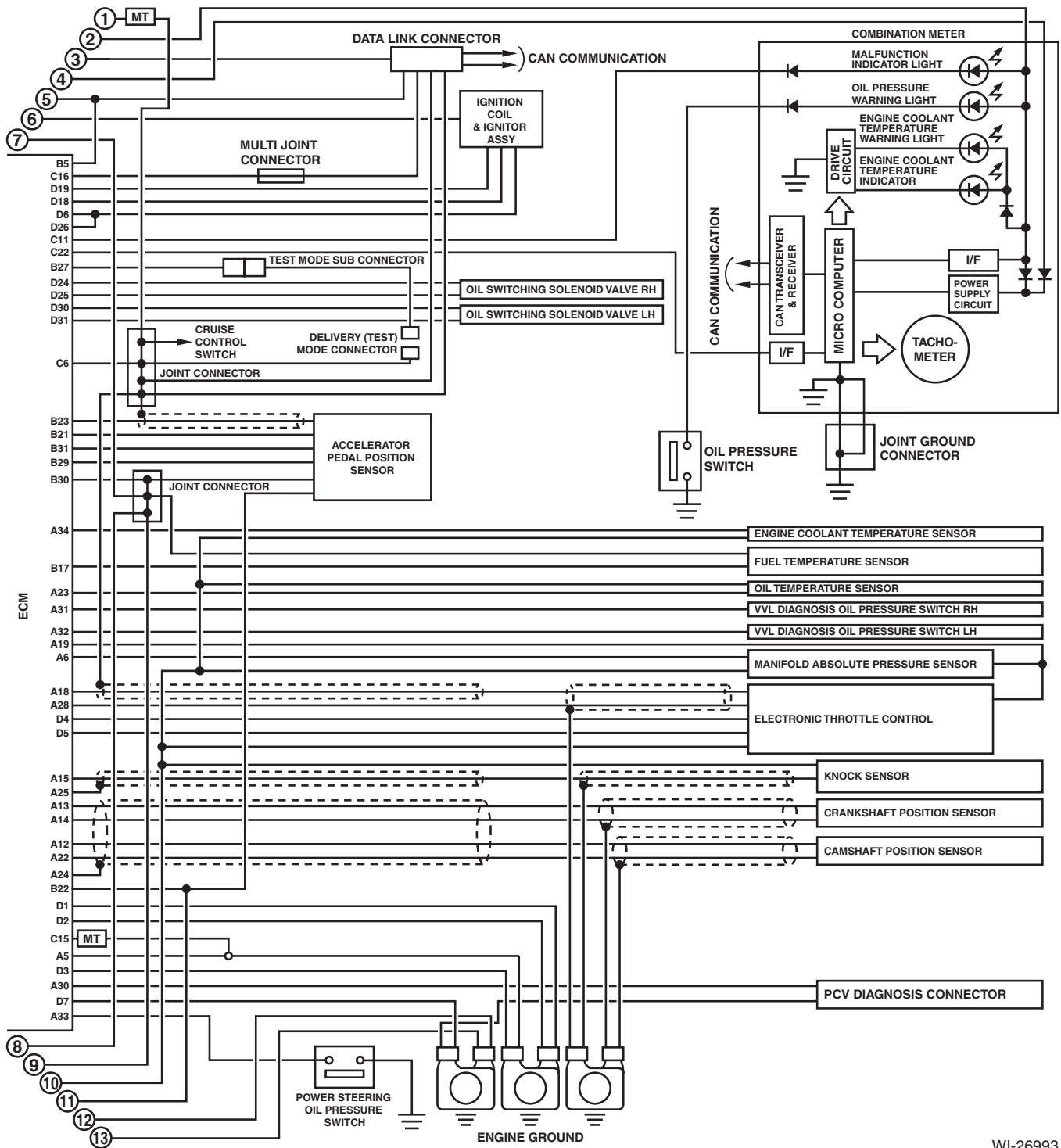
5. Engine Electrical System

A: WIRING DIAGRAM

1. NON-TURBO MODEL

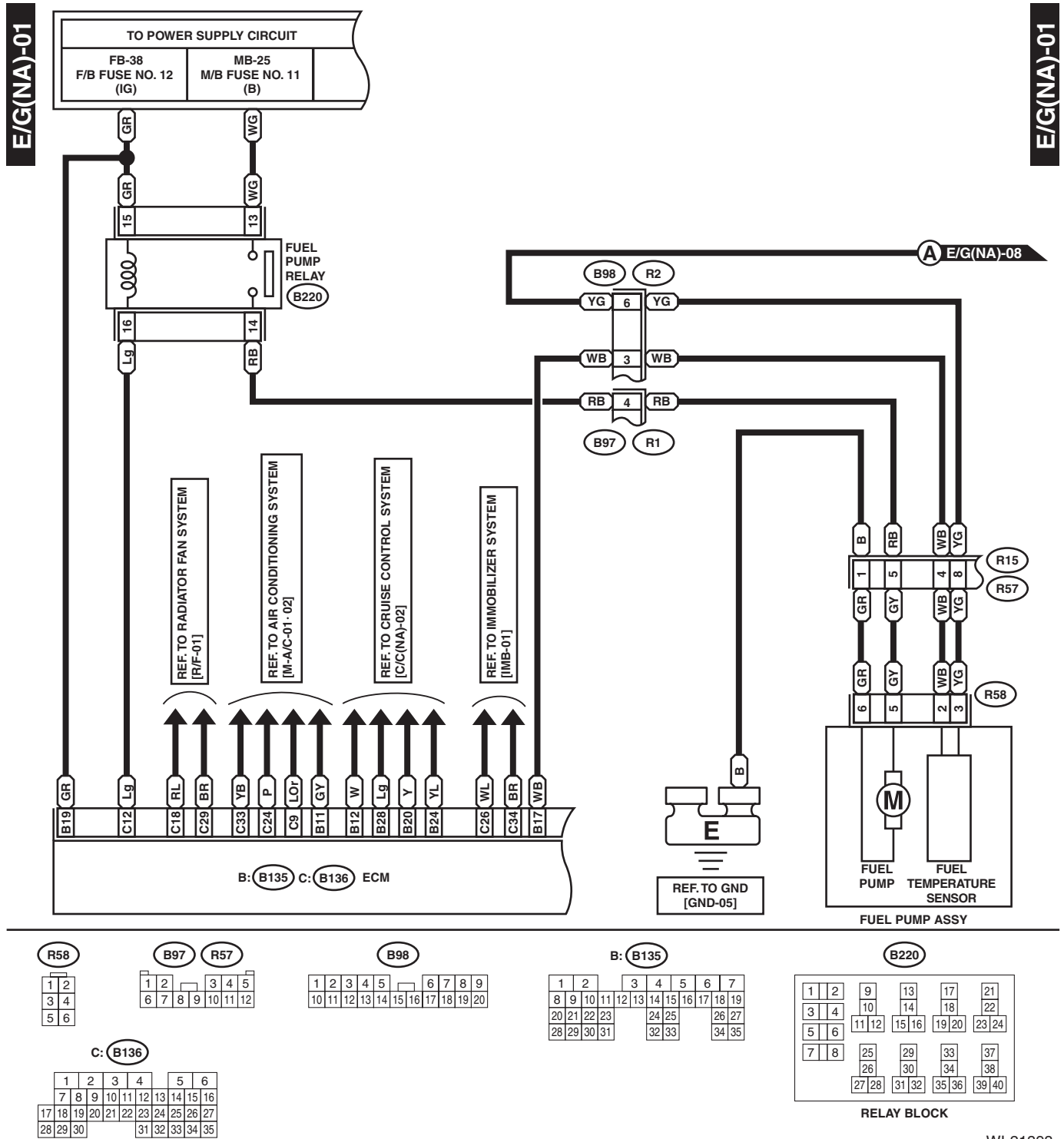


WI-26992



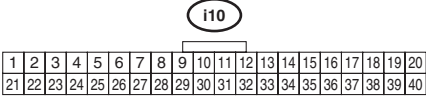
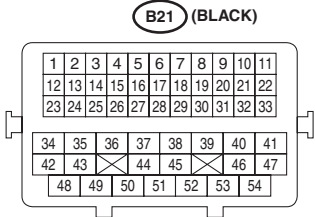
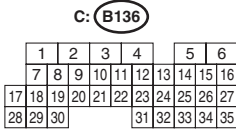
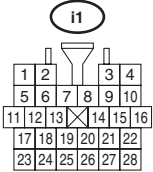
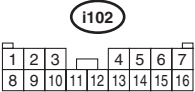
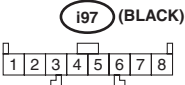
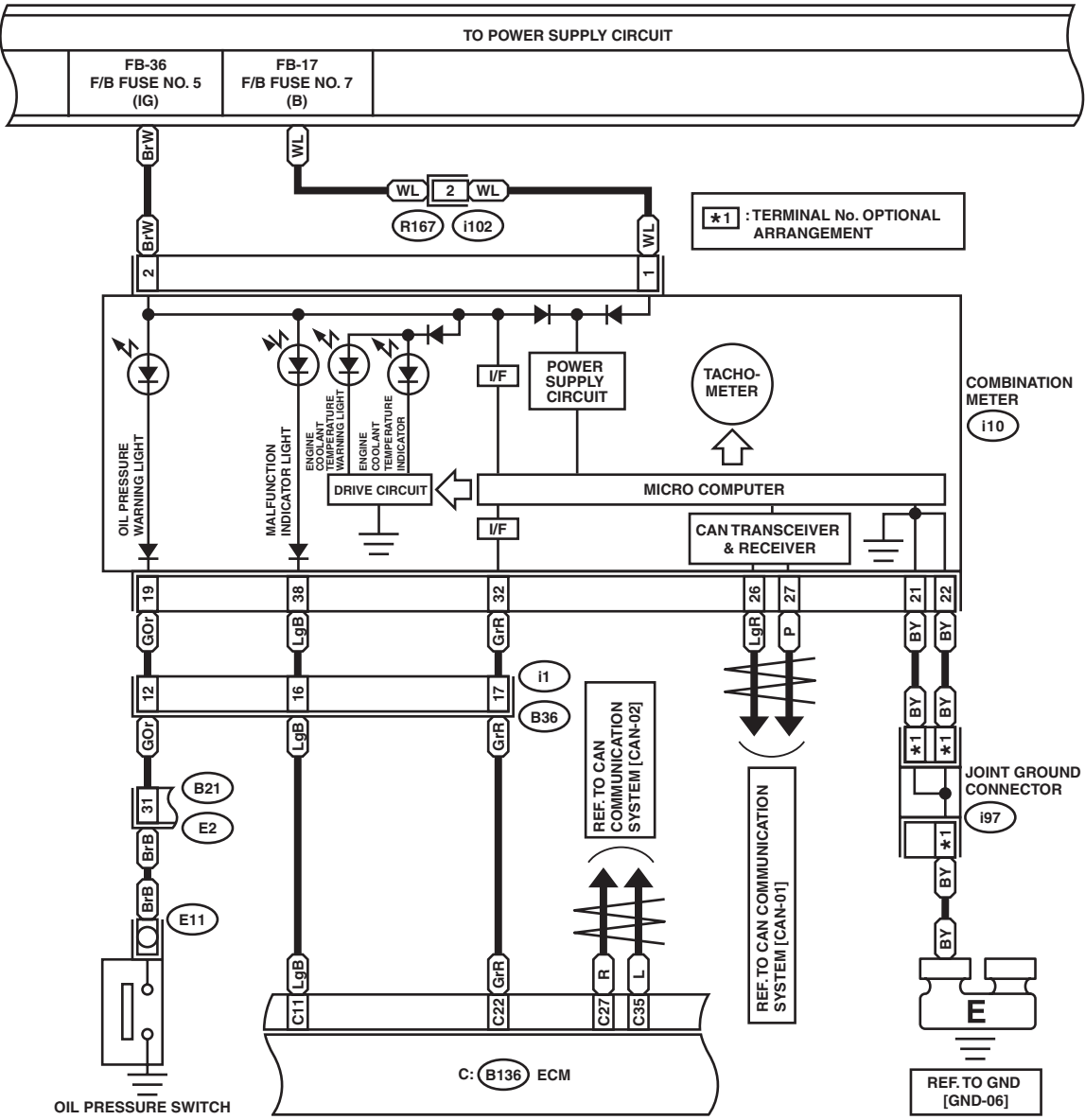
WI-26993

WIRING SYSTEM



E/G(NA)-02

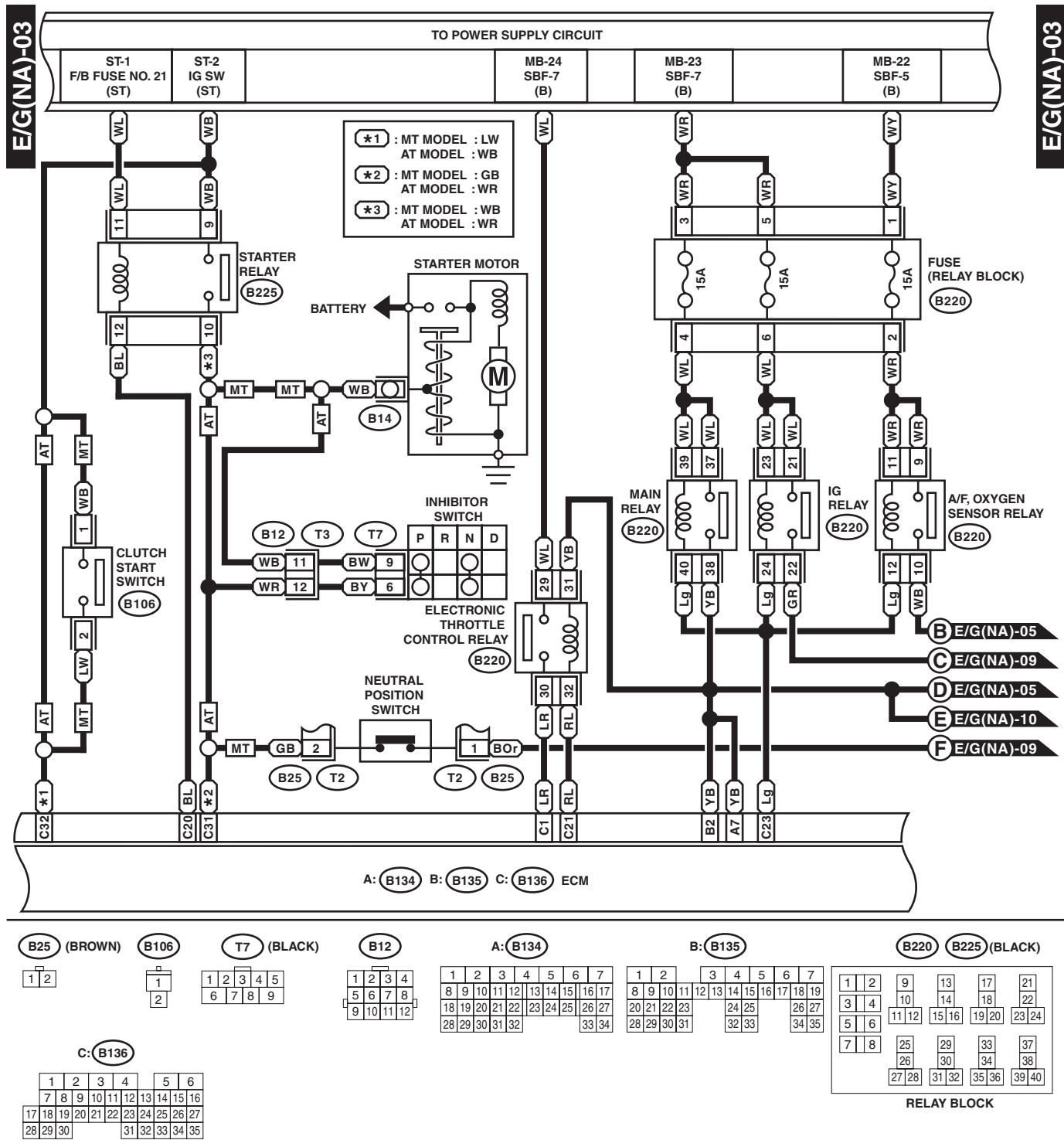
E/G(NA)-02



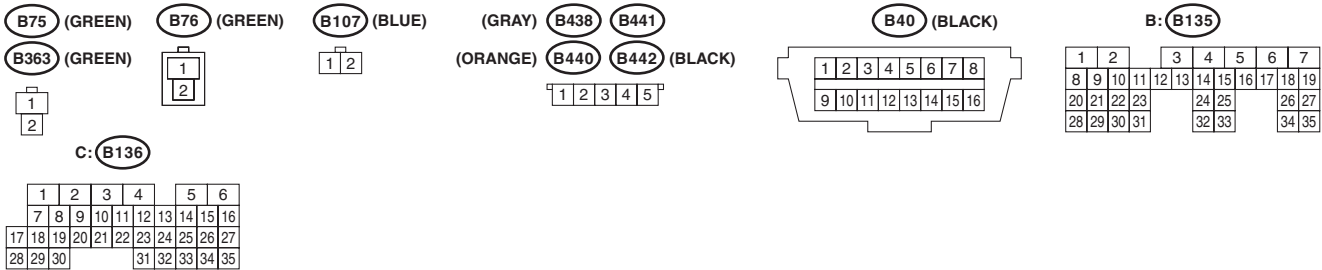
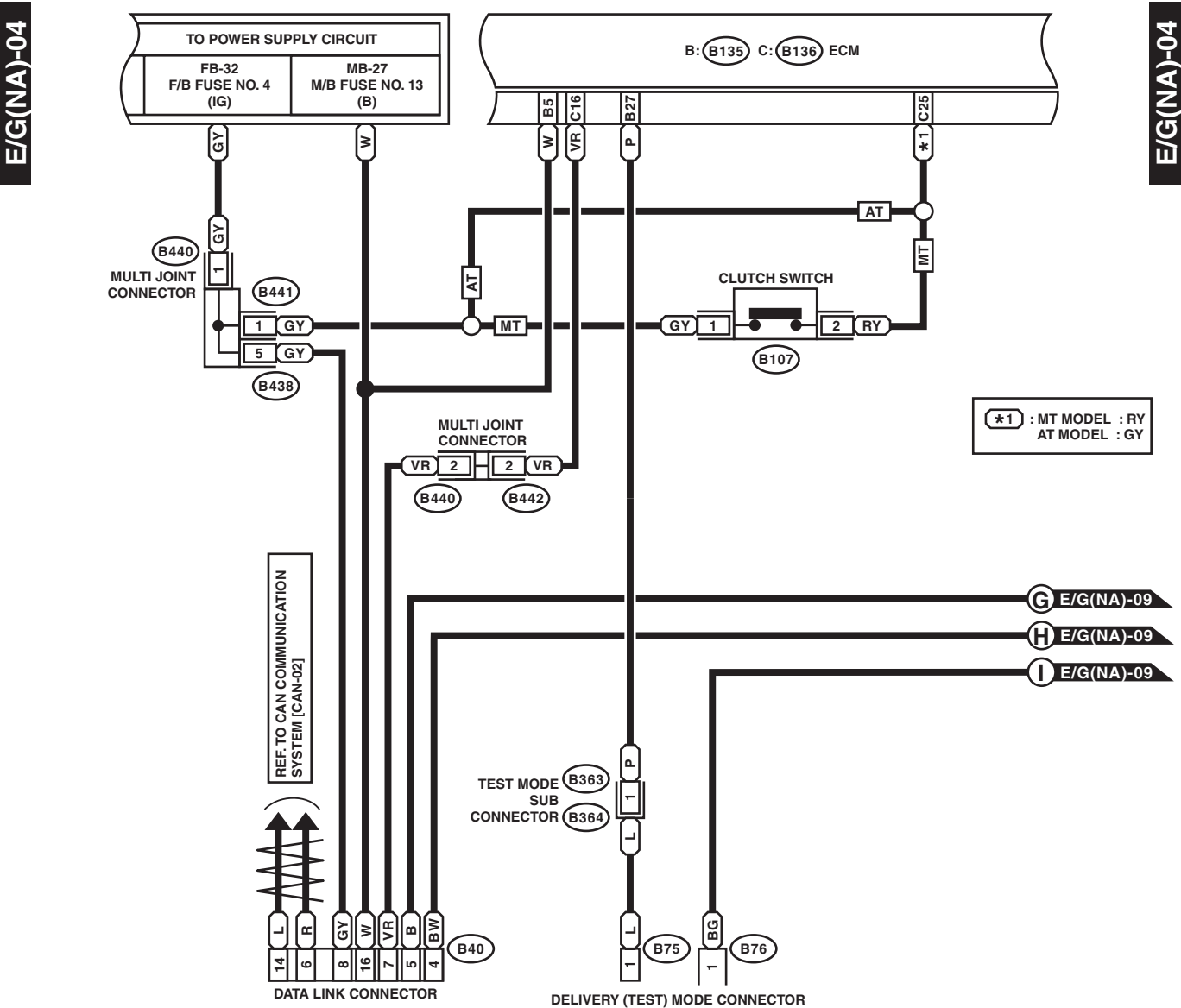
WI-26994

Engine Electrical System

WIRING SYSTEM



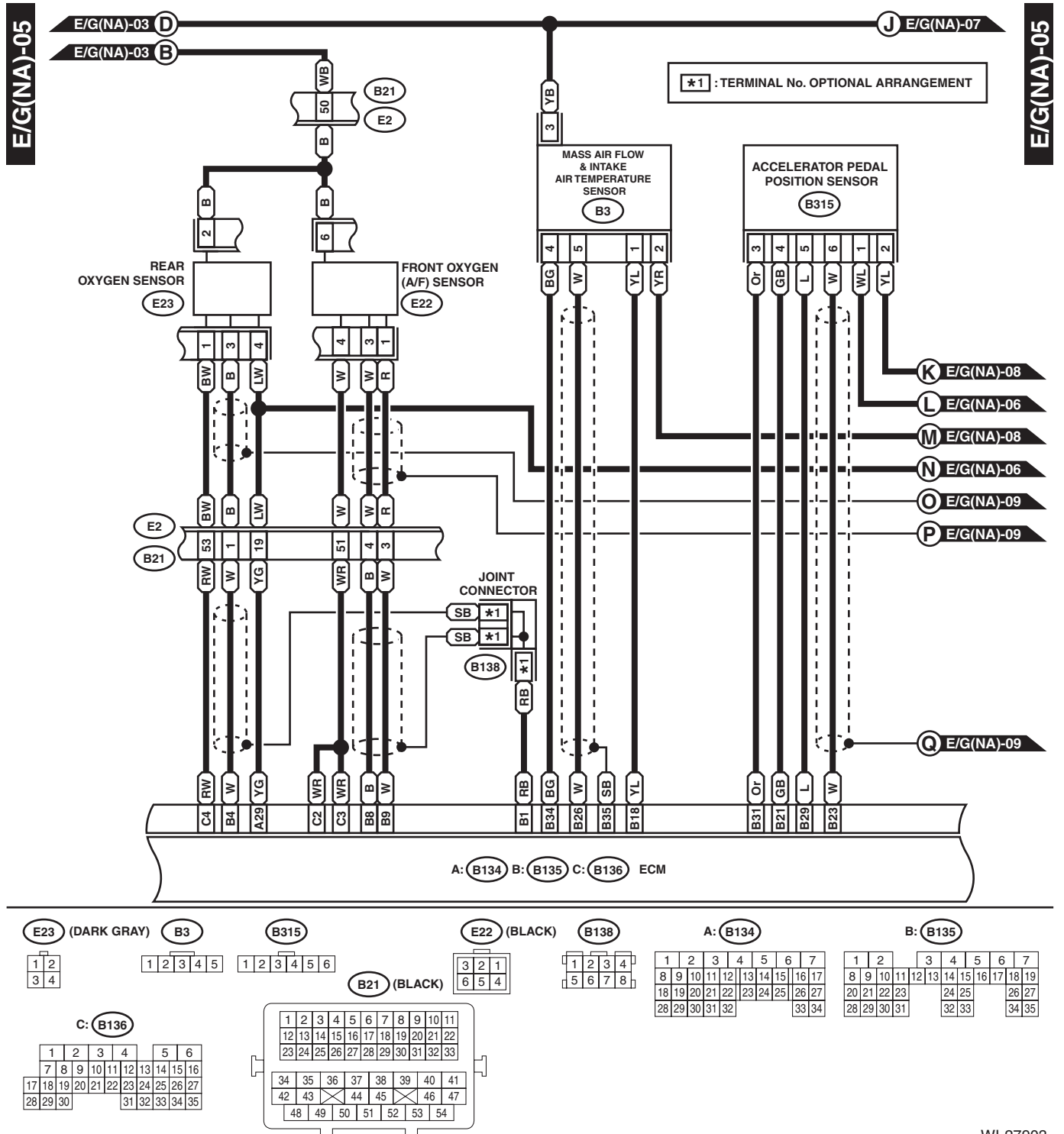
WI-26995



WI-26996

Engine Electrical System

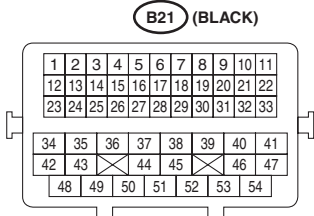
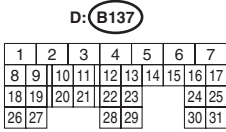
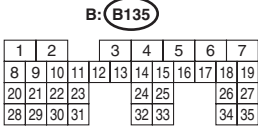
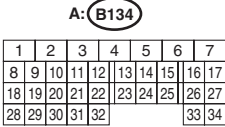
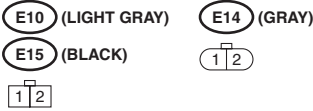
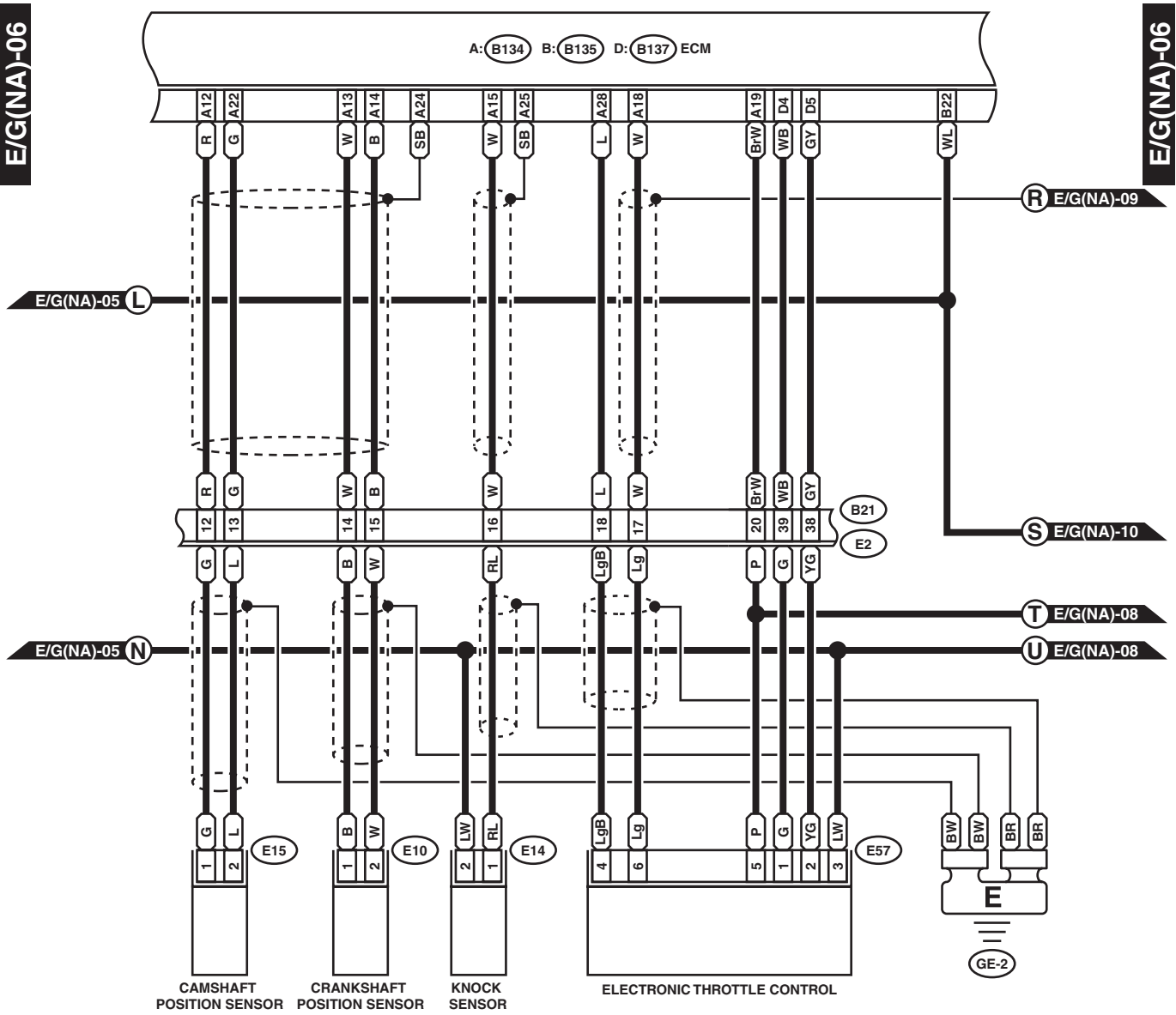
WIRING SYSTEM



WI-27903

Engine Electrical System

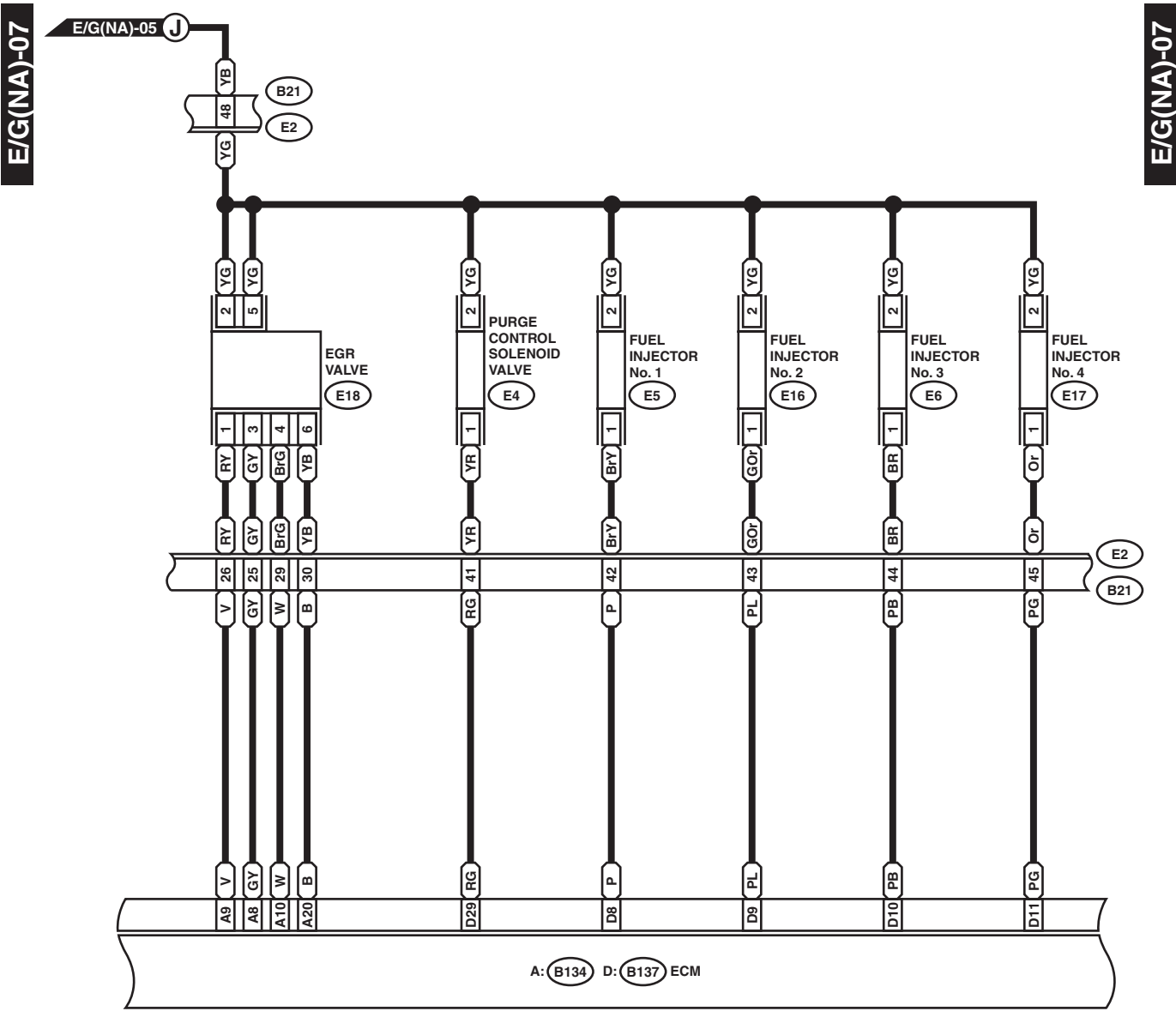
WIRING SYSTEM



WI-27904

Engine Electrical System

WIRING SYSTEM



E4 (BLACK)

(DARK GRAY) E5 (DARK GRAY)

E18 (DARK GRAY)

D: B137

B21 (BLACK)

1 2

(DARK GRAY) E6 (DARK GRAY)

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	32	33	34	35

A: B134

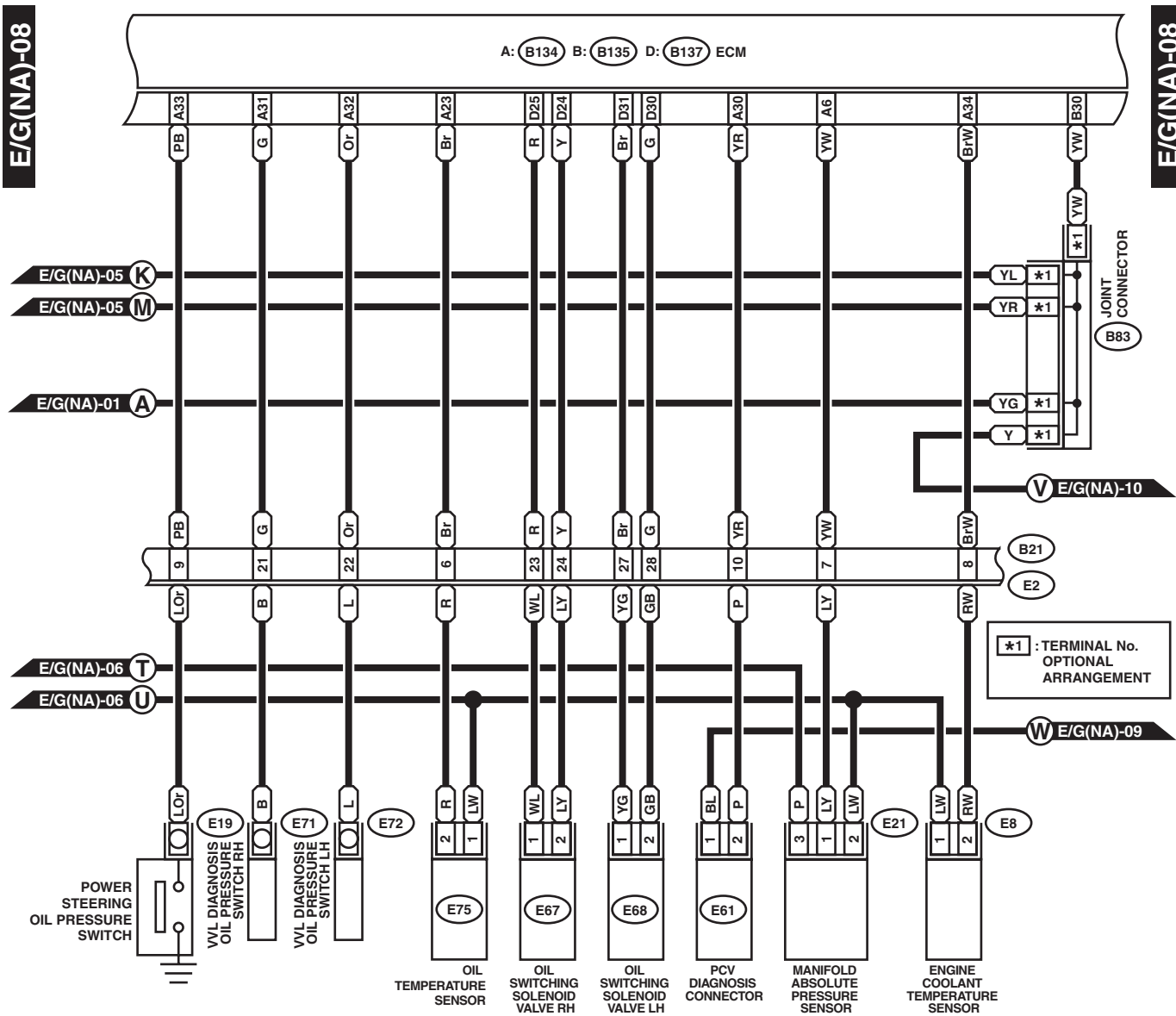
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

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-22935

Engine Electrical System

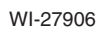
WIRING SYSTEM

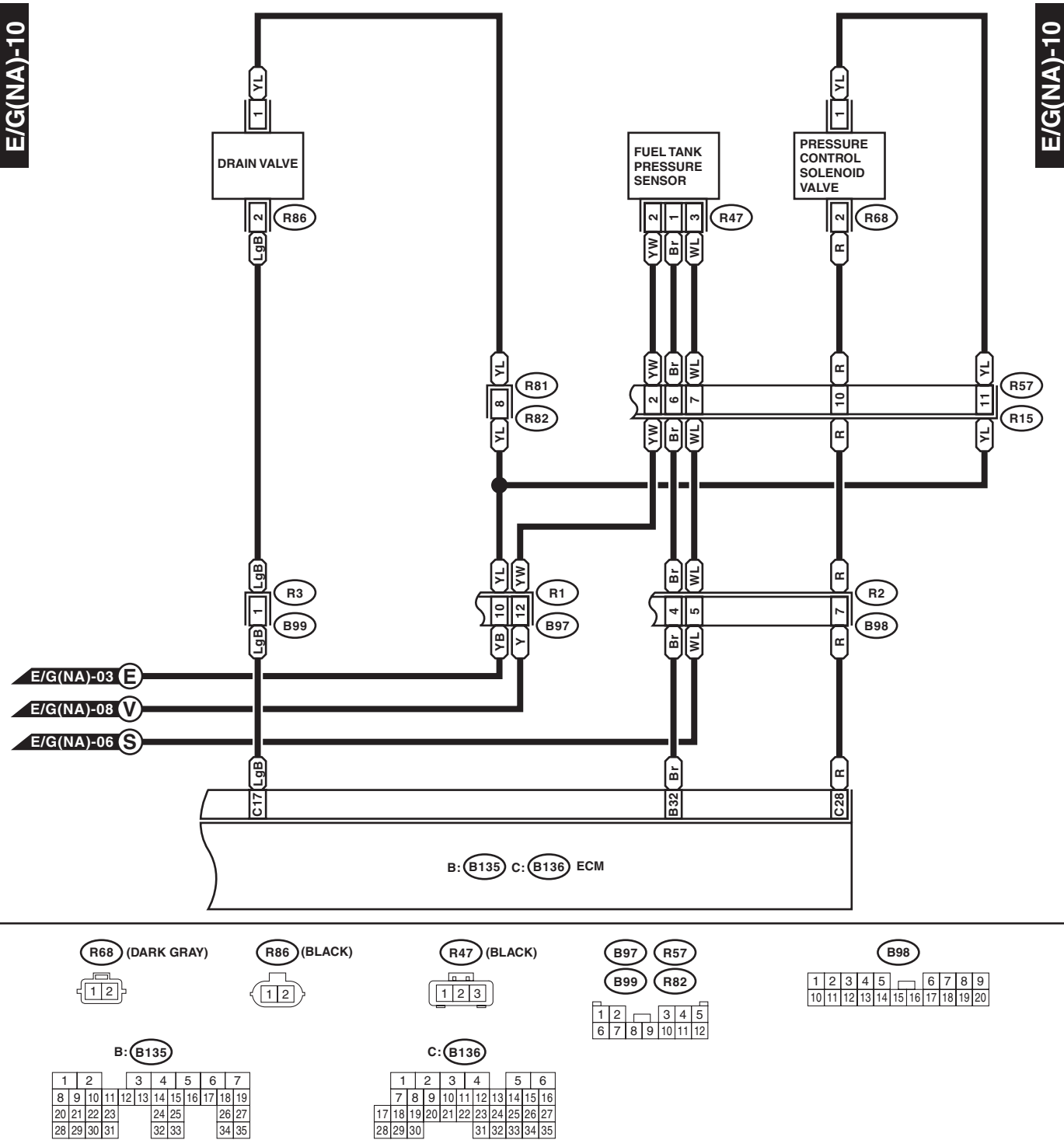


E8 (BLACK)	E21 (BLACK)	B83	D: B137	A: B134	B21 (BLACK)
E61 (DARK GRAY)	1 2 3	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	1 2 3 4 5 6 7 8 9 10 11 12 13 14 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
E67 (BLUE)	B: B135				
E68 (BLUE)	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				
E75 (BLACK)	1 2				

WI-27905

WIRING SYSTEM



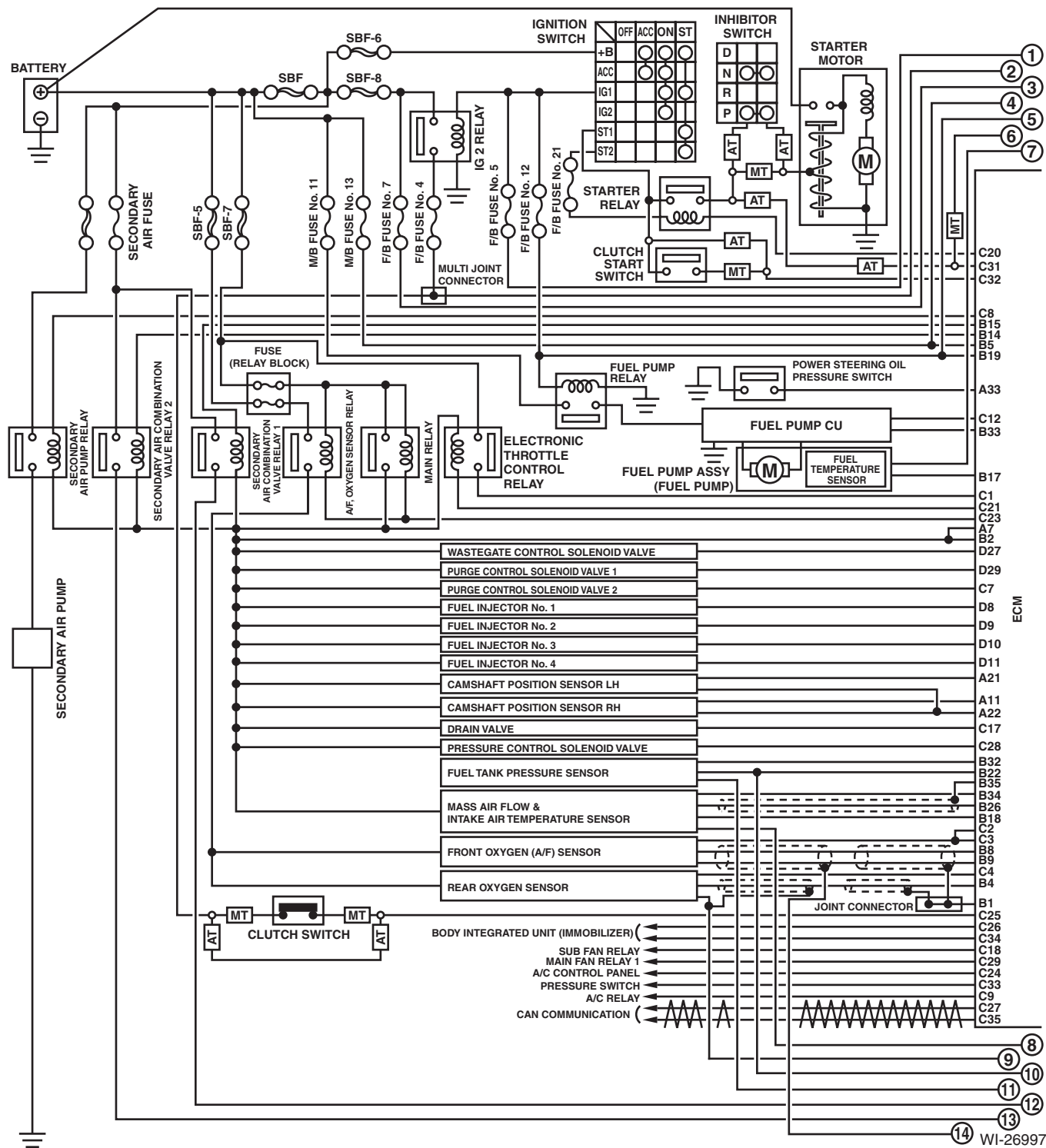


WI-27907

Engine Electrical System

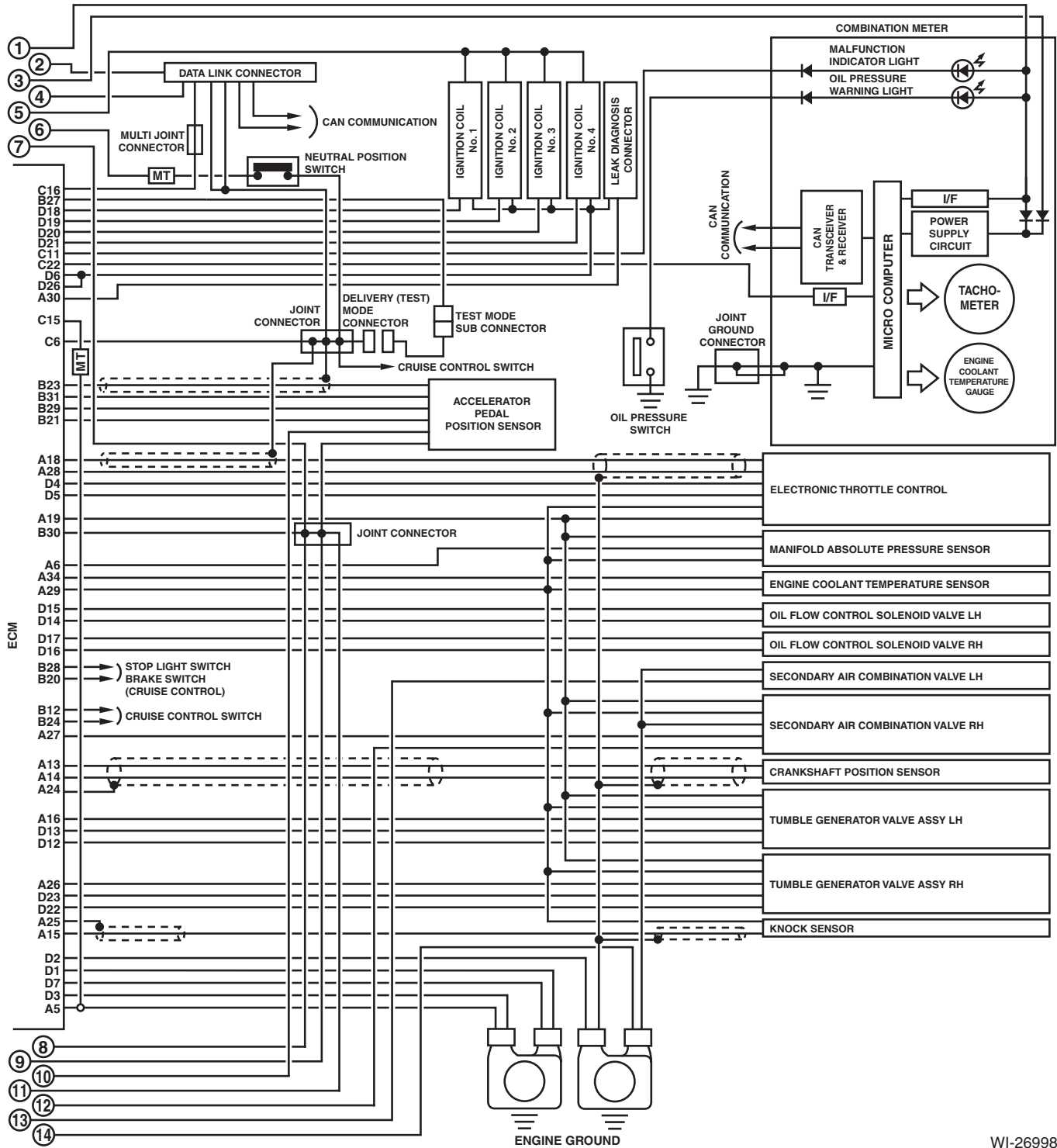
WIRING SYSTEM

2. TURBO MODEL



Engine Electrical System

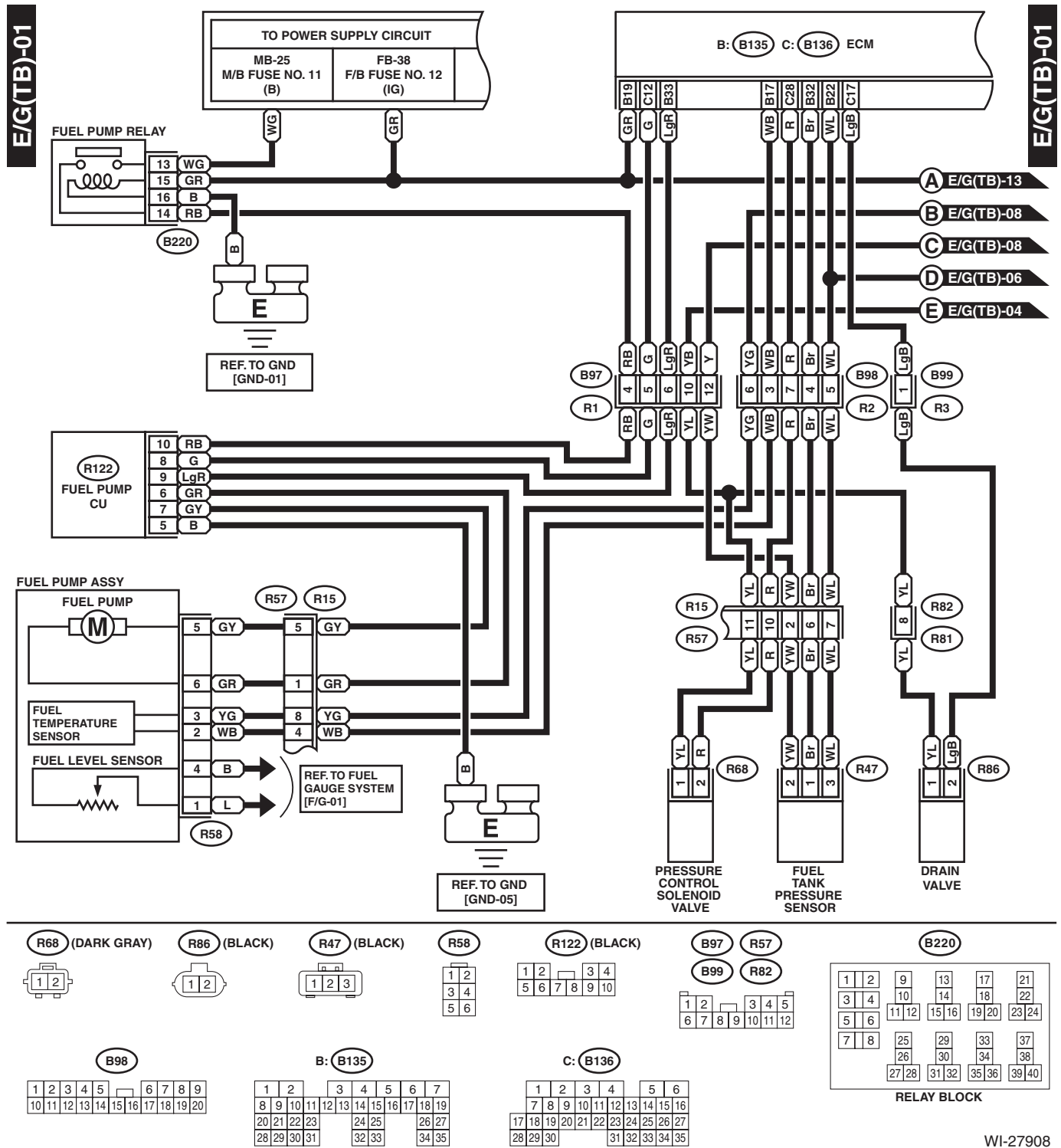
WIRING SYSTEM



WI-26998

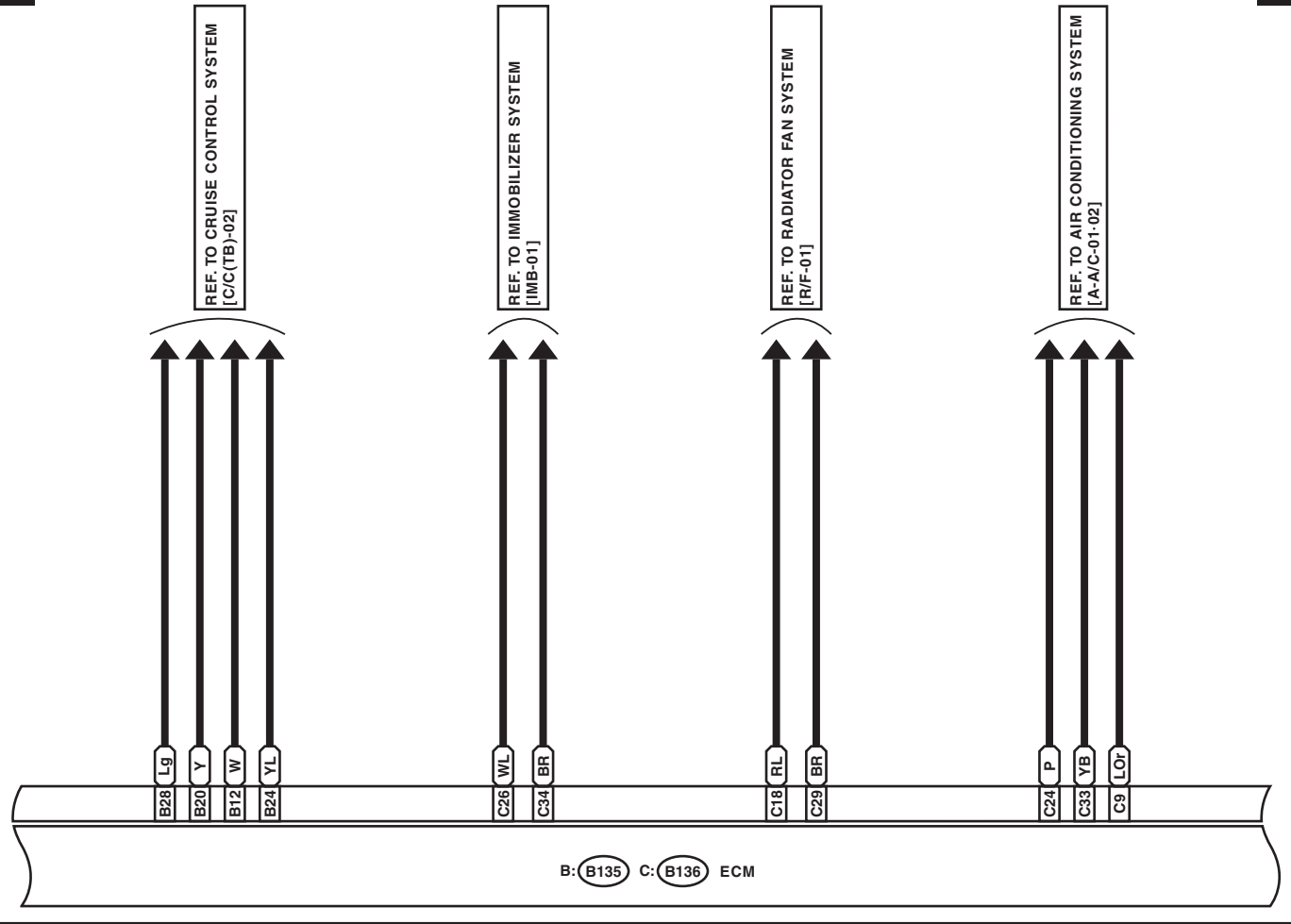
Engine Electrical System

WIRING SYSTEM



E/G(TB)-02

E/G(TB)-02



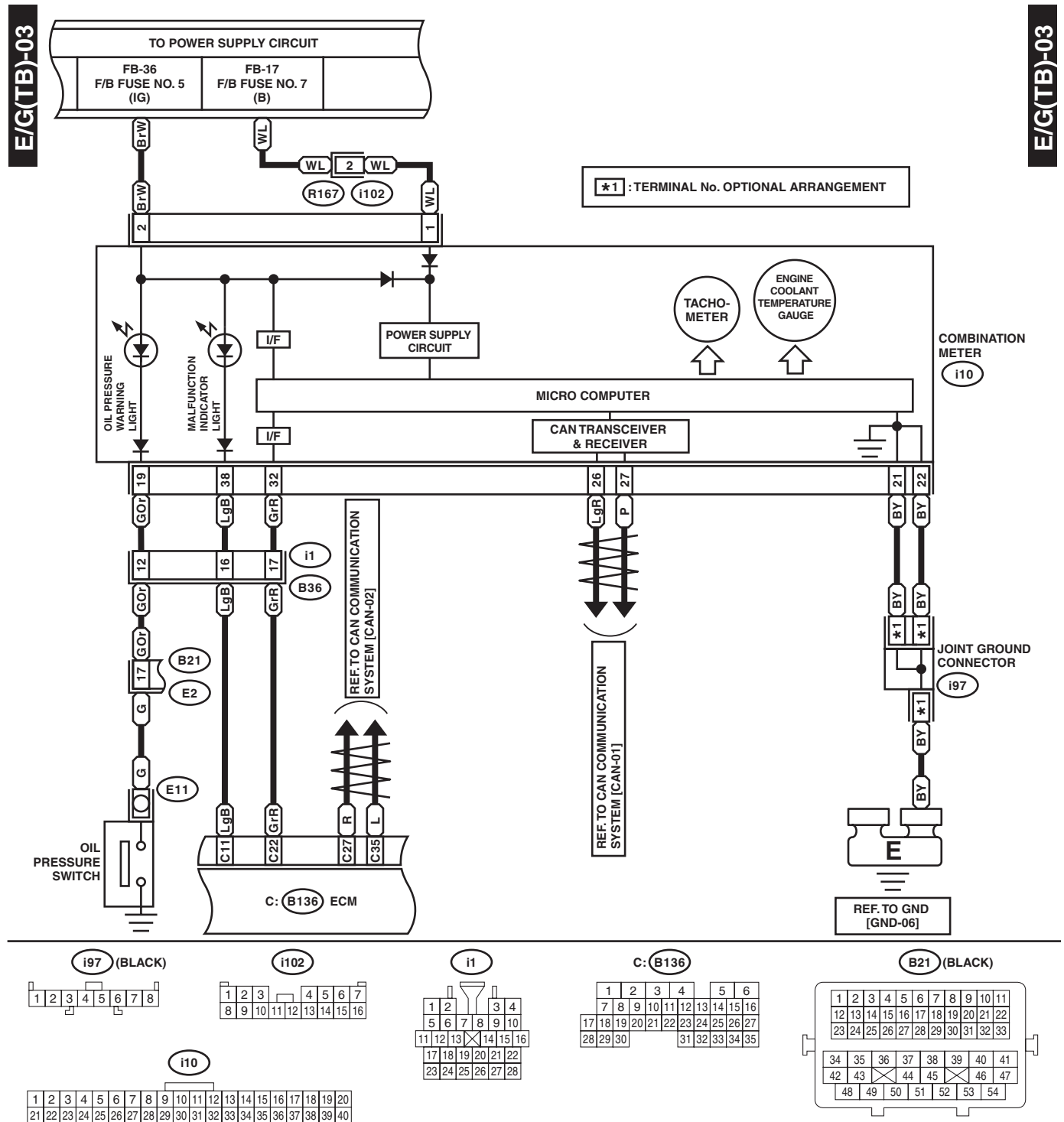
B: B135

1	2		3	4	5	6	7
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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
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19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

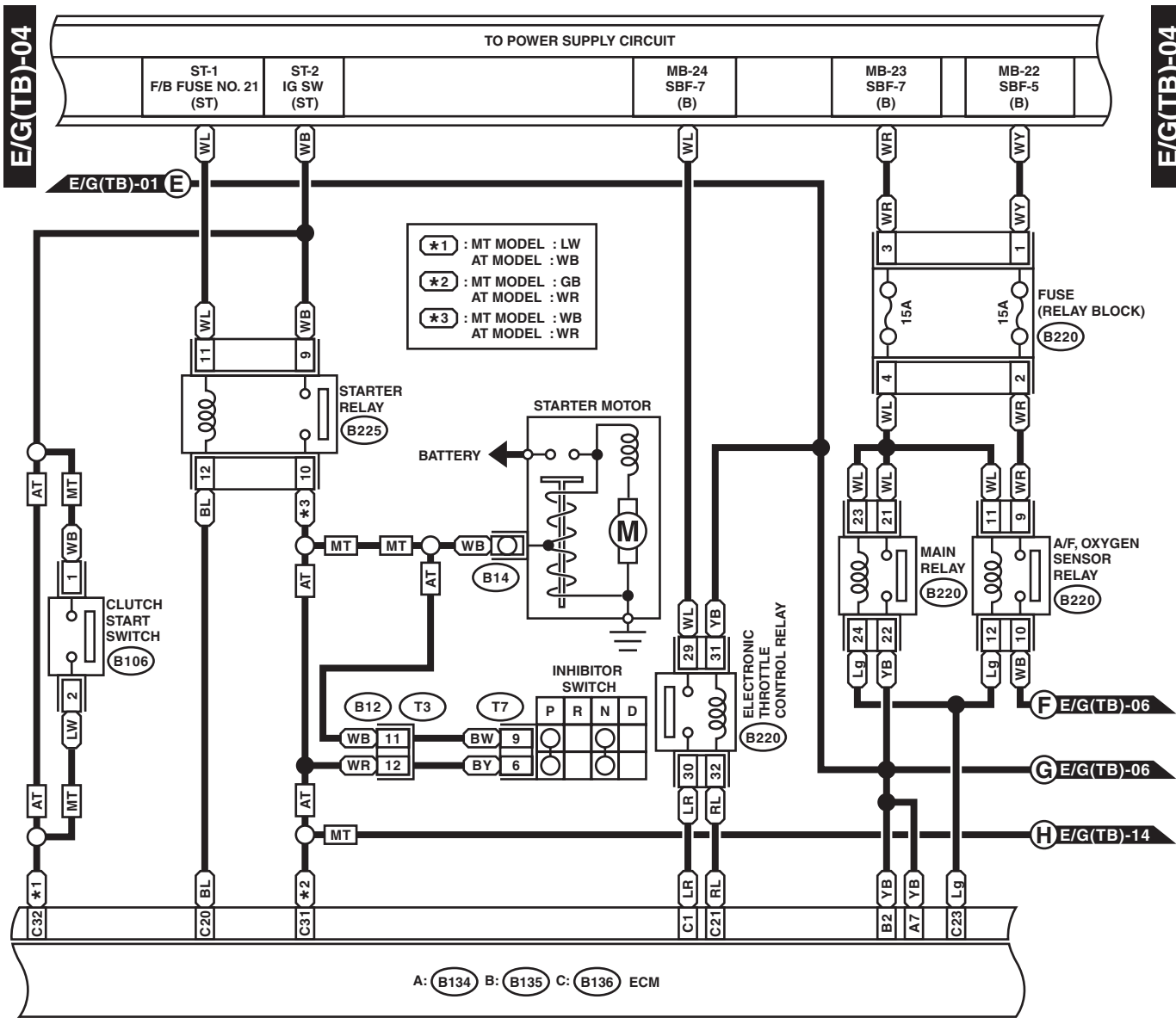
WIRING SYSTEM



WI-26999

Engine Electrical System

WIRING SYSTEM



B106

1
2

T7 (BLACK)

1	2	3	4	5
6	7	8	9	

B12

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

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	

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	

B220

B225 (BLACK)

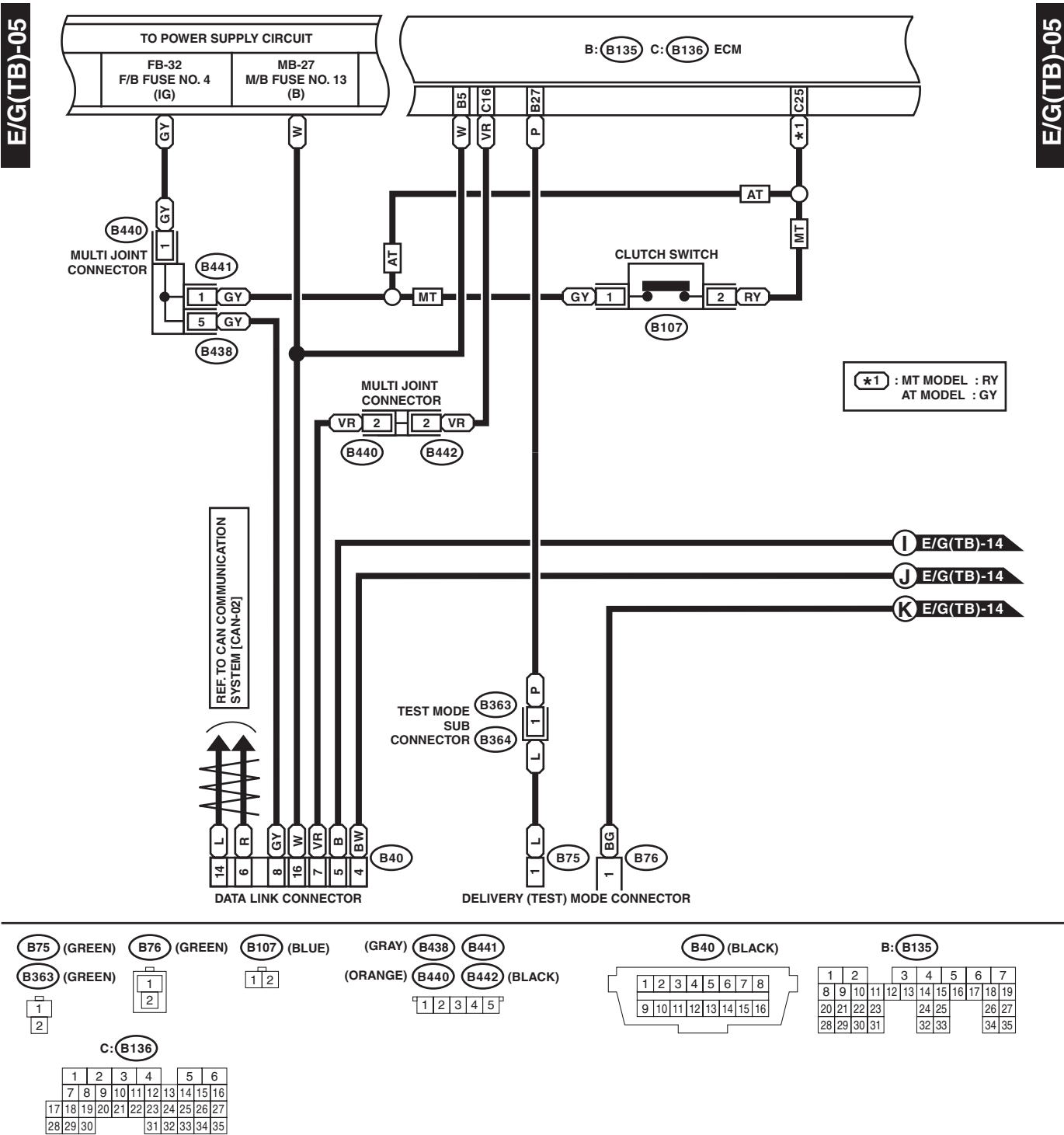
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7	8	12	16	20	24
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		26	30	34	38
		27	31	35	39
		28	32	36	40

RELAY BLOCK

WI-27000

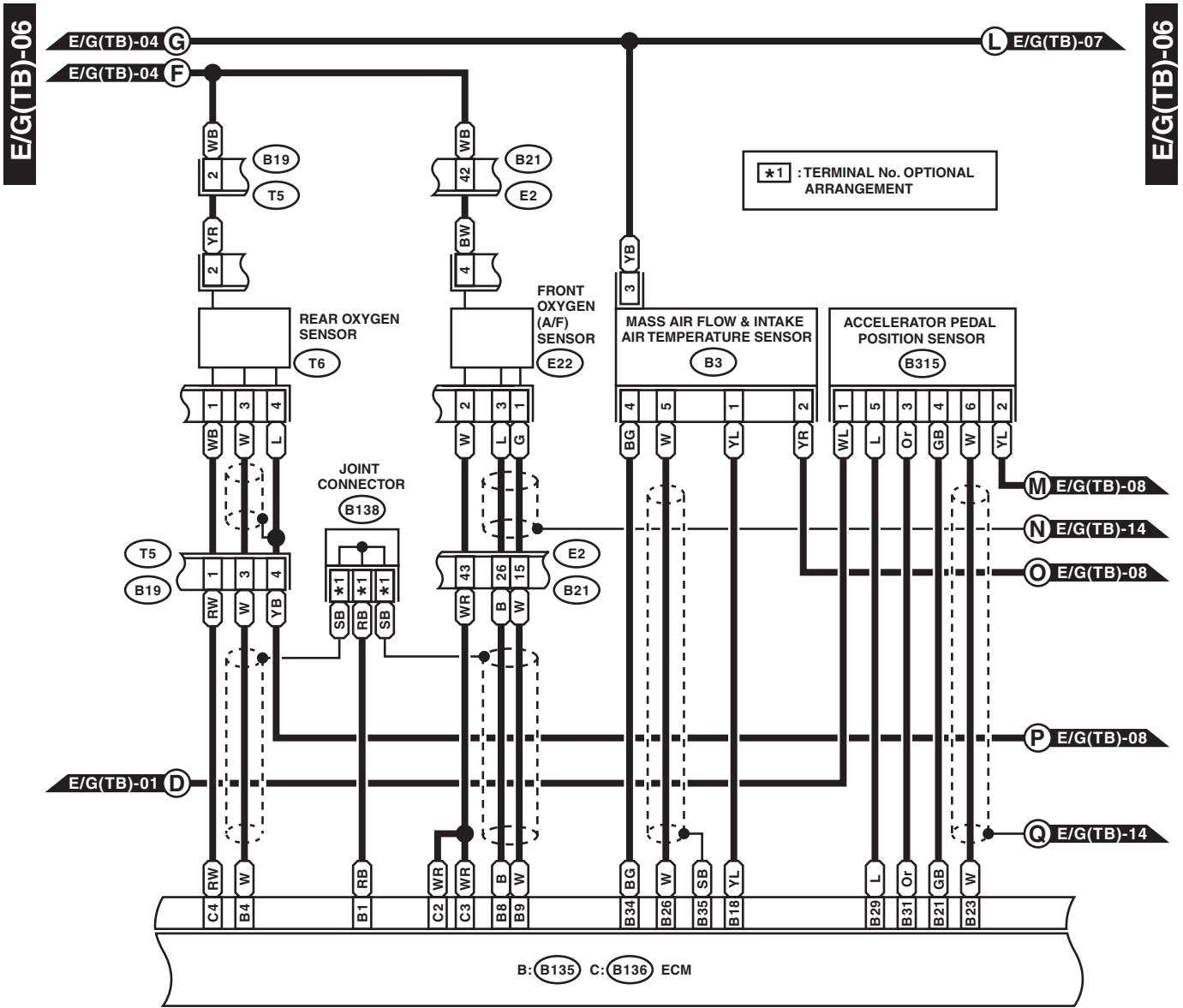
Engine Electrical System

WIRING SYSTEM



Engine Electrical System

WIRING SYSTEM



B19

E22 (DARK GRAY)

T6 (DARK GRAY)

1	2
3	4

B3

1	2	3	4	5
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B315

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

B138

1	2	3	4
5	6	7	8

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				

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

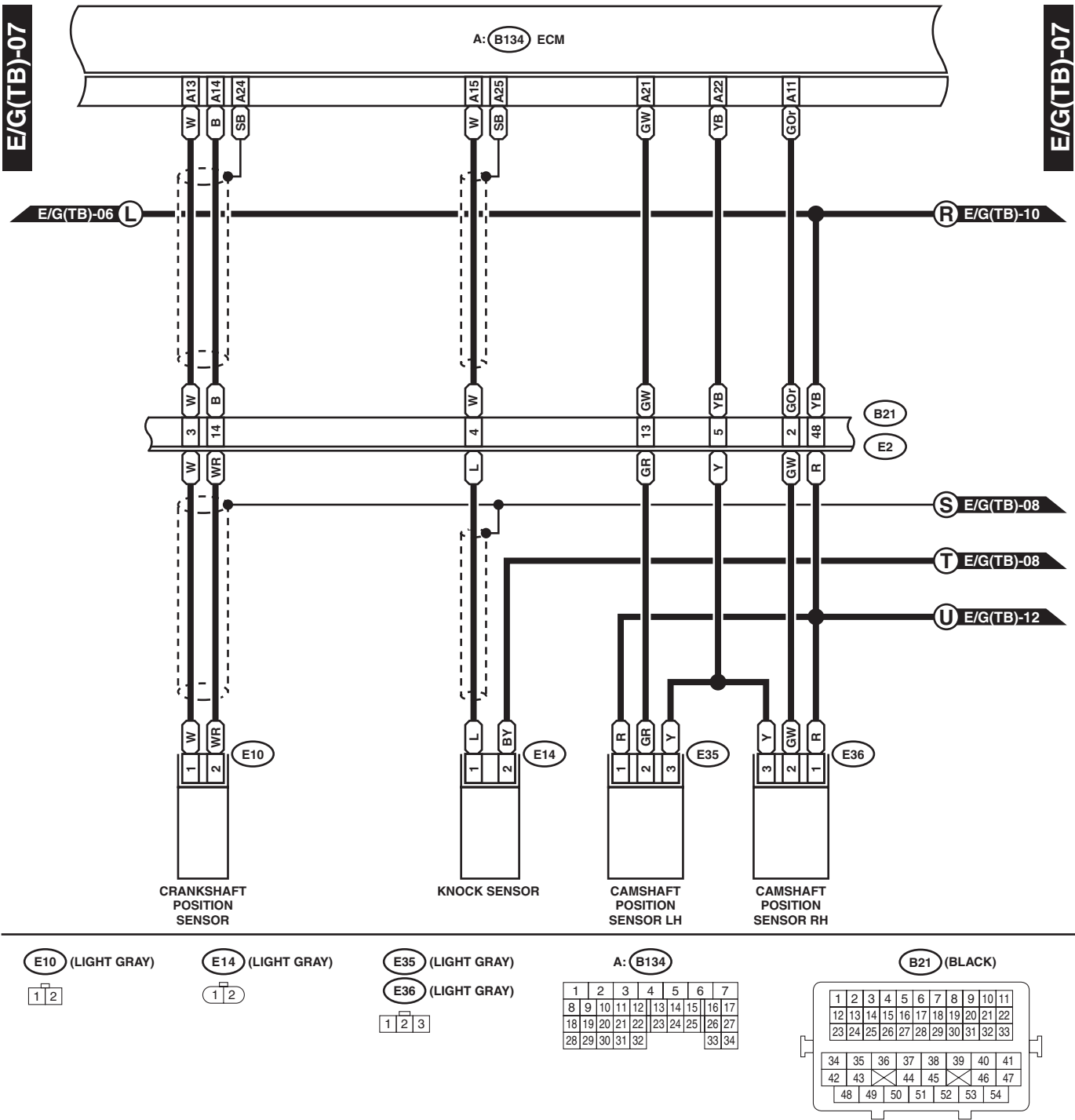
C: (B136)

1	2	3	4	5	6
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19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

WI-27909

Engine Electrical System

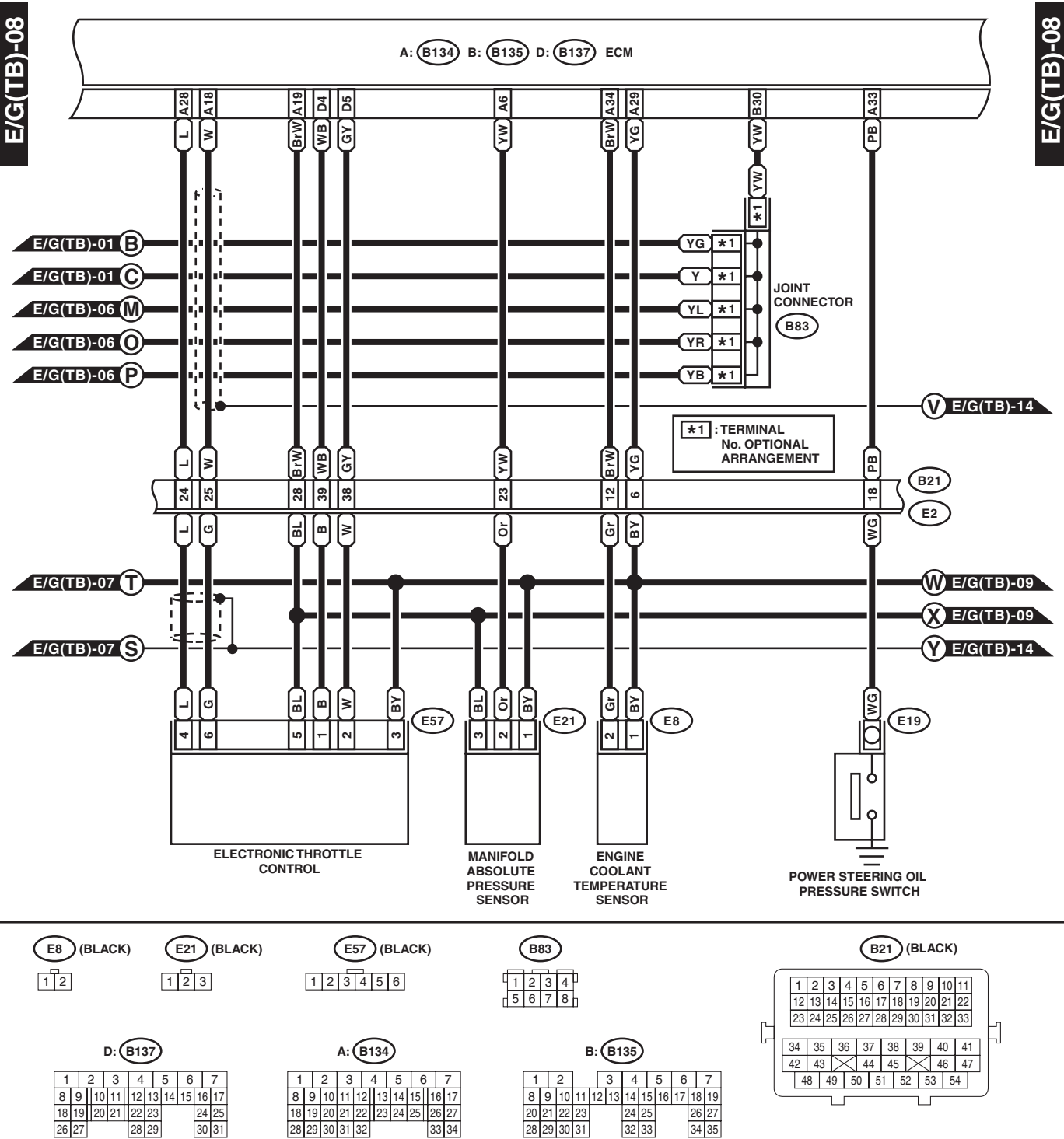
WIRING SYSTEM



WI-22940

Engine Electrical System

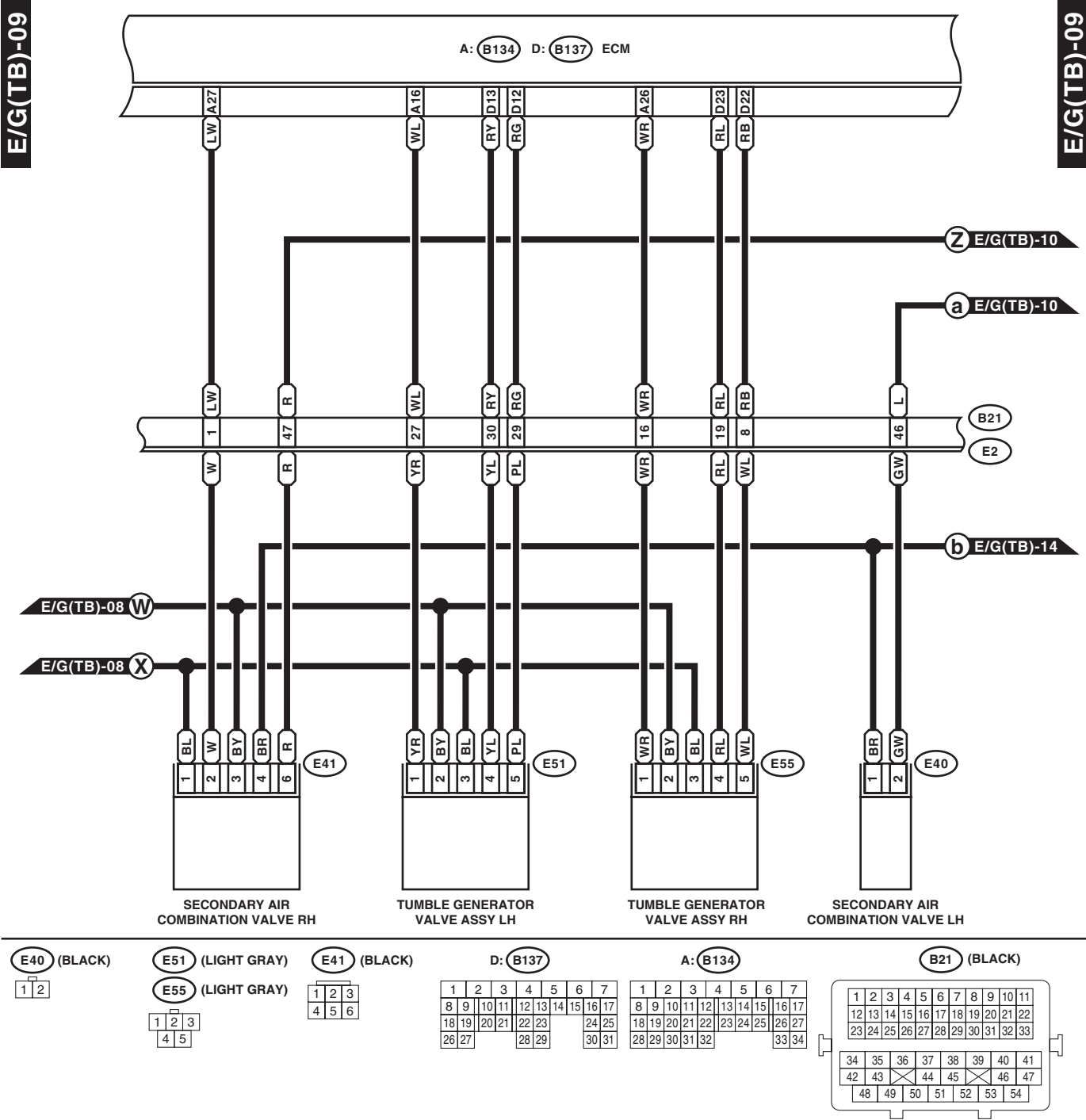
WIRING SYSTEM



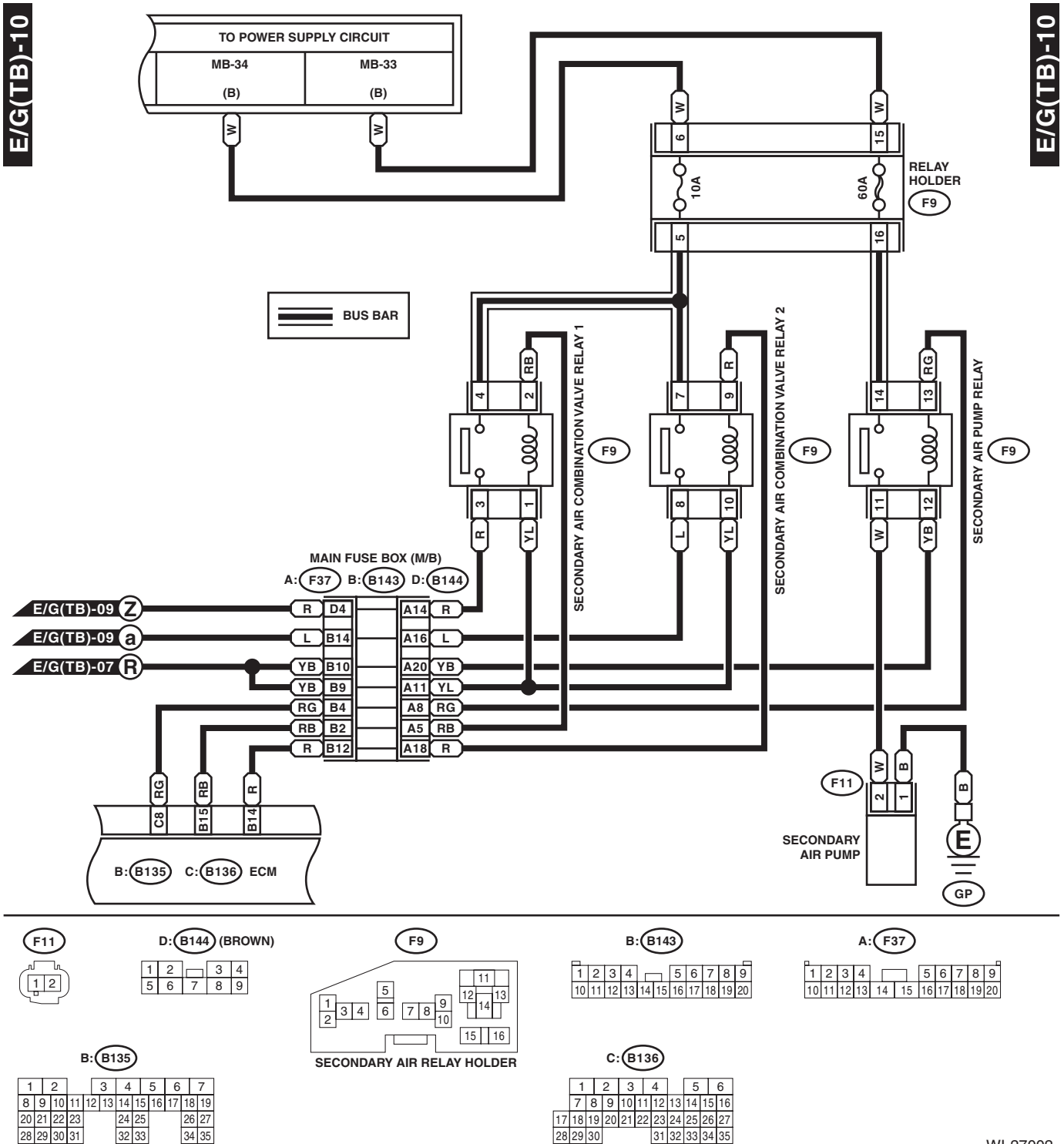
WI-27910

Engine Electrical System

WIRING SYSTEM

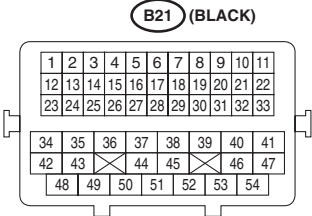
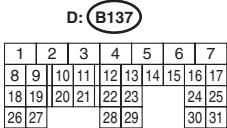
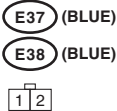
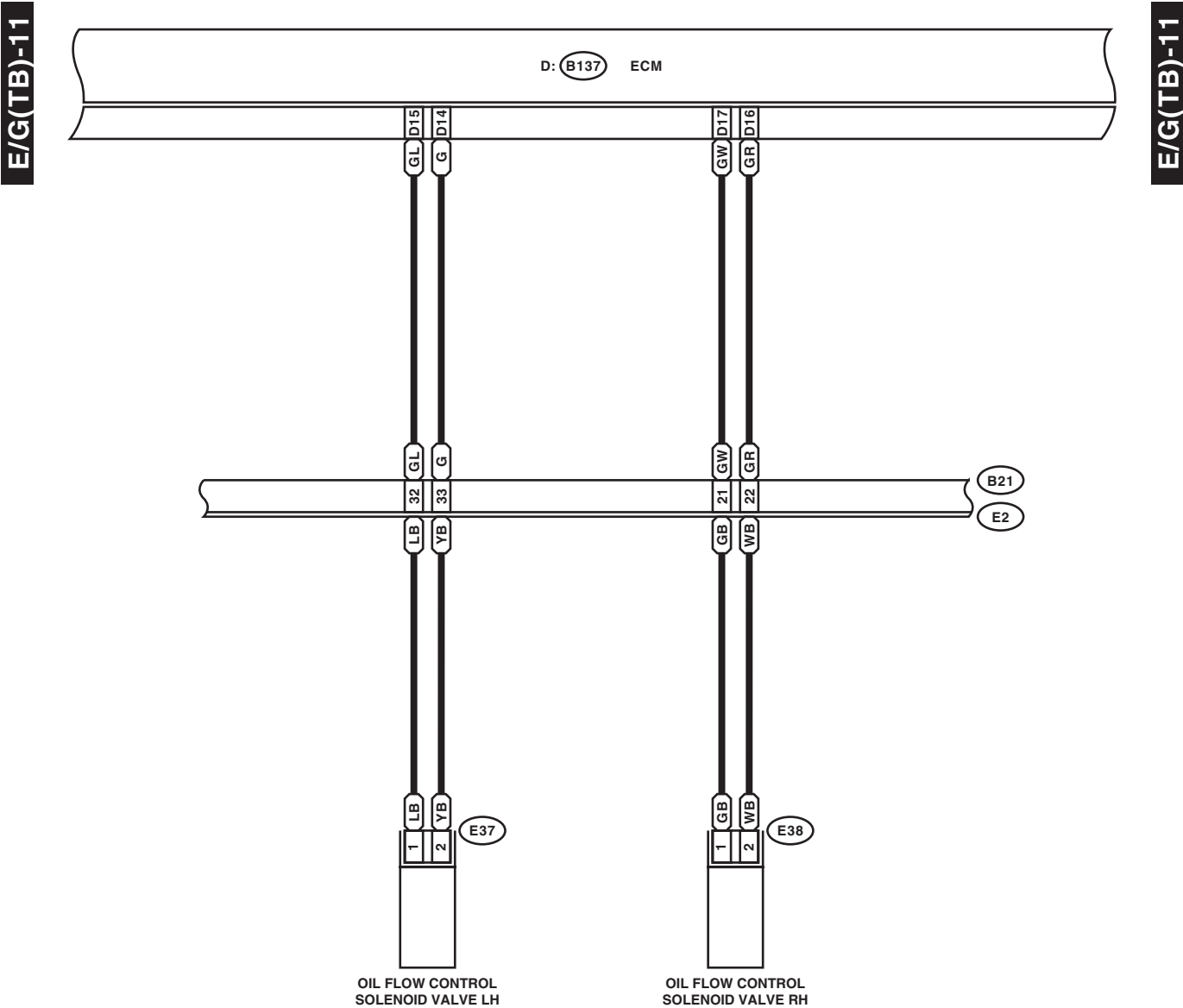


WI-22941



Engine Electrical System

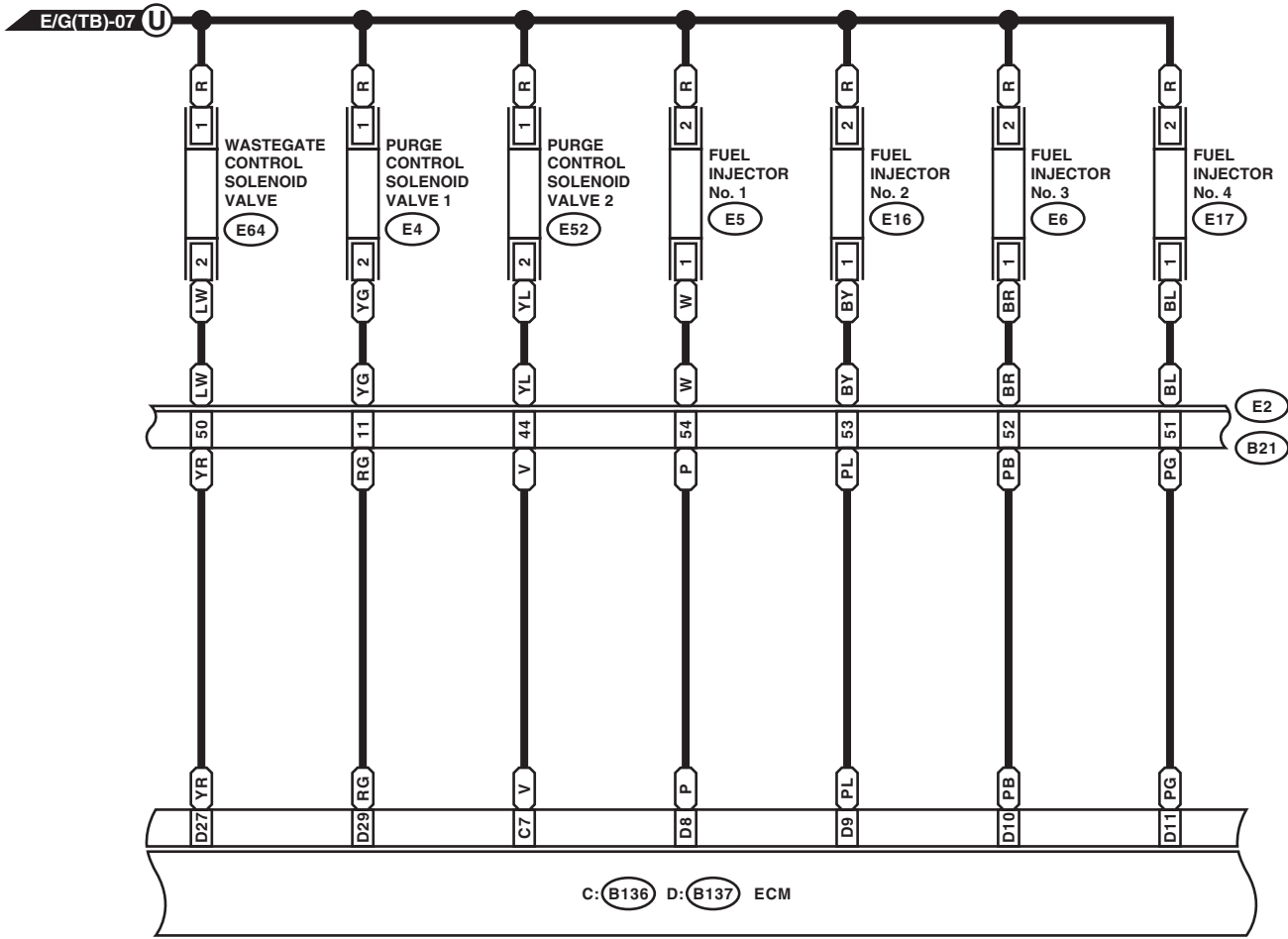
WIRING SYSTEM



WI-22943

E/G(TB)-12

E/G(TB)-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				

C: B136

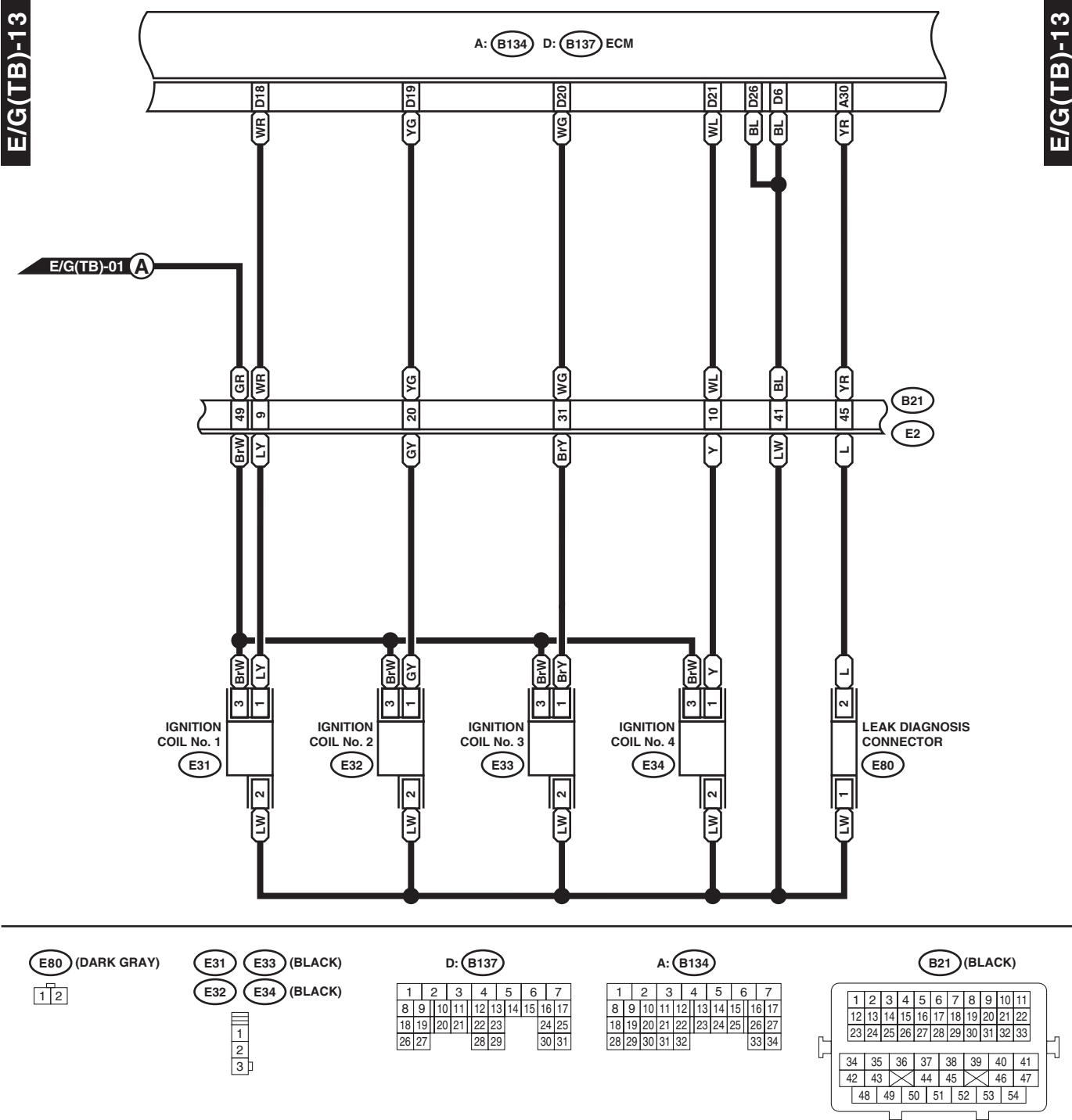
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7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

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	

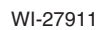
Engine Electrical System

WIRING SYSTEM



WI-22945

WIRING SYSTEM

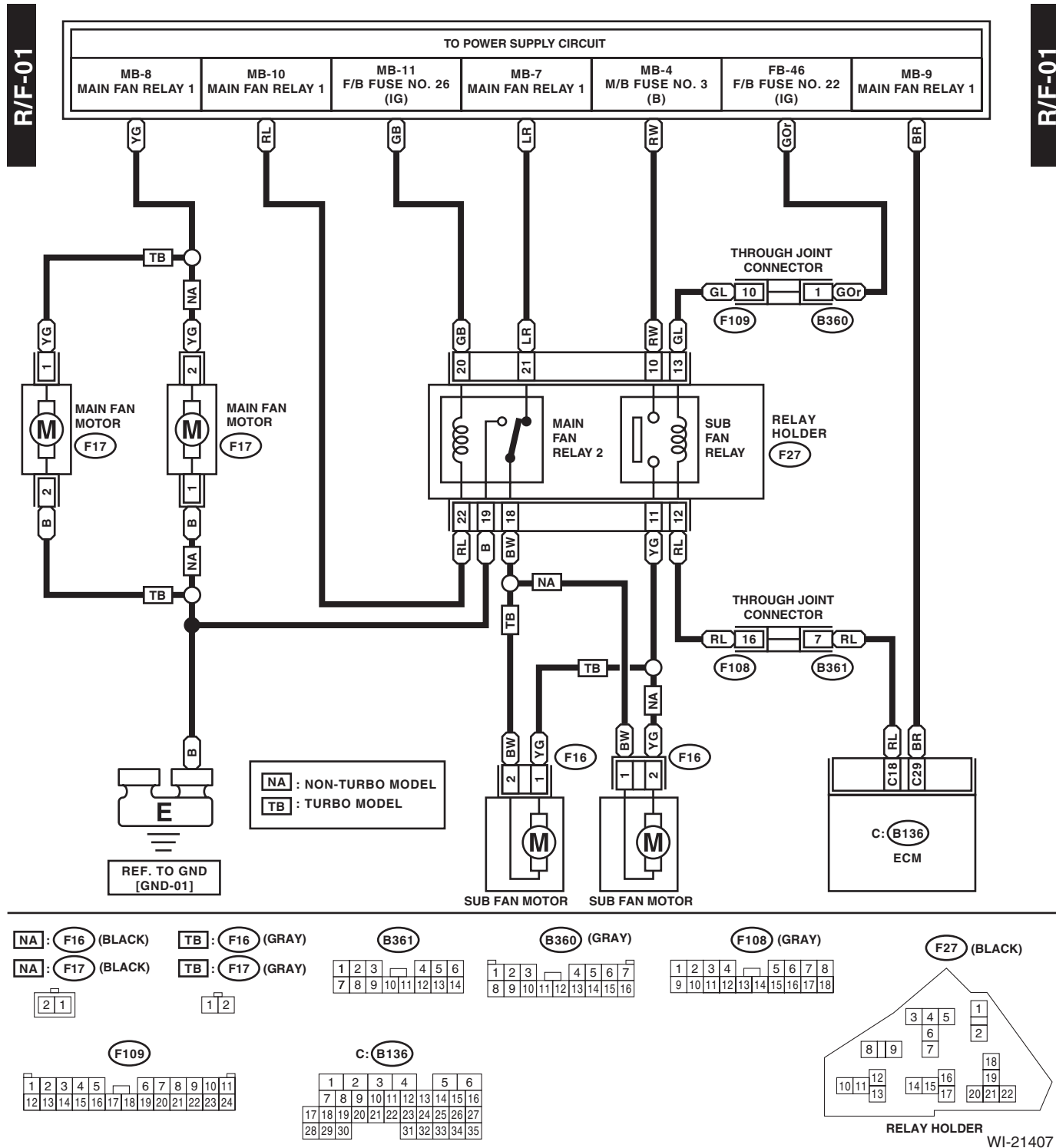


Radiator Fan System

WIRING SYSTEM

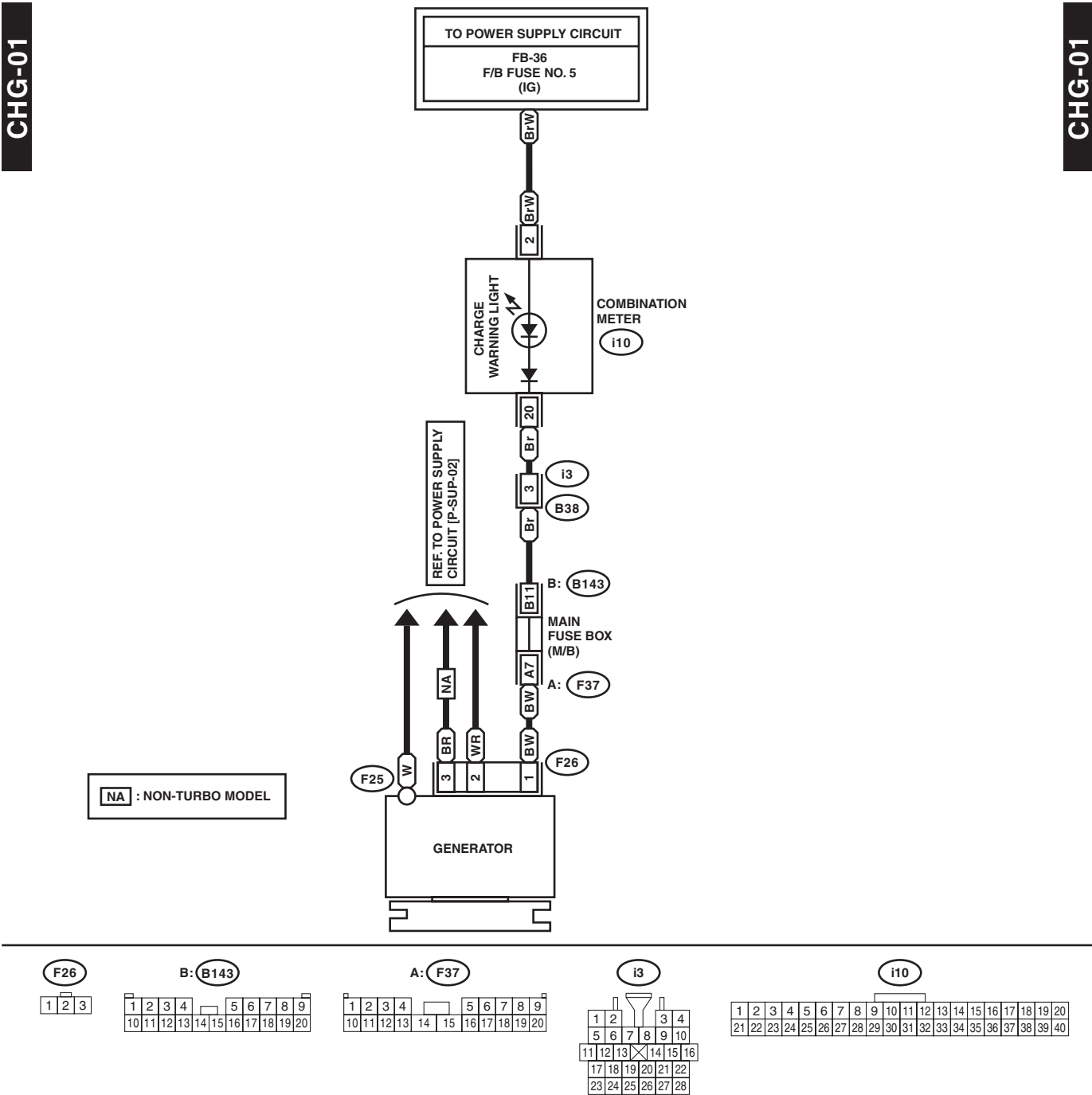
6. Radiator Fan System

A: WIRING DIAGRAM



7. Charging System

A: WIRING DIAGRAM

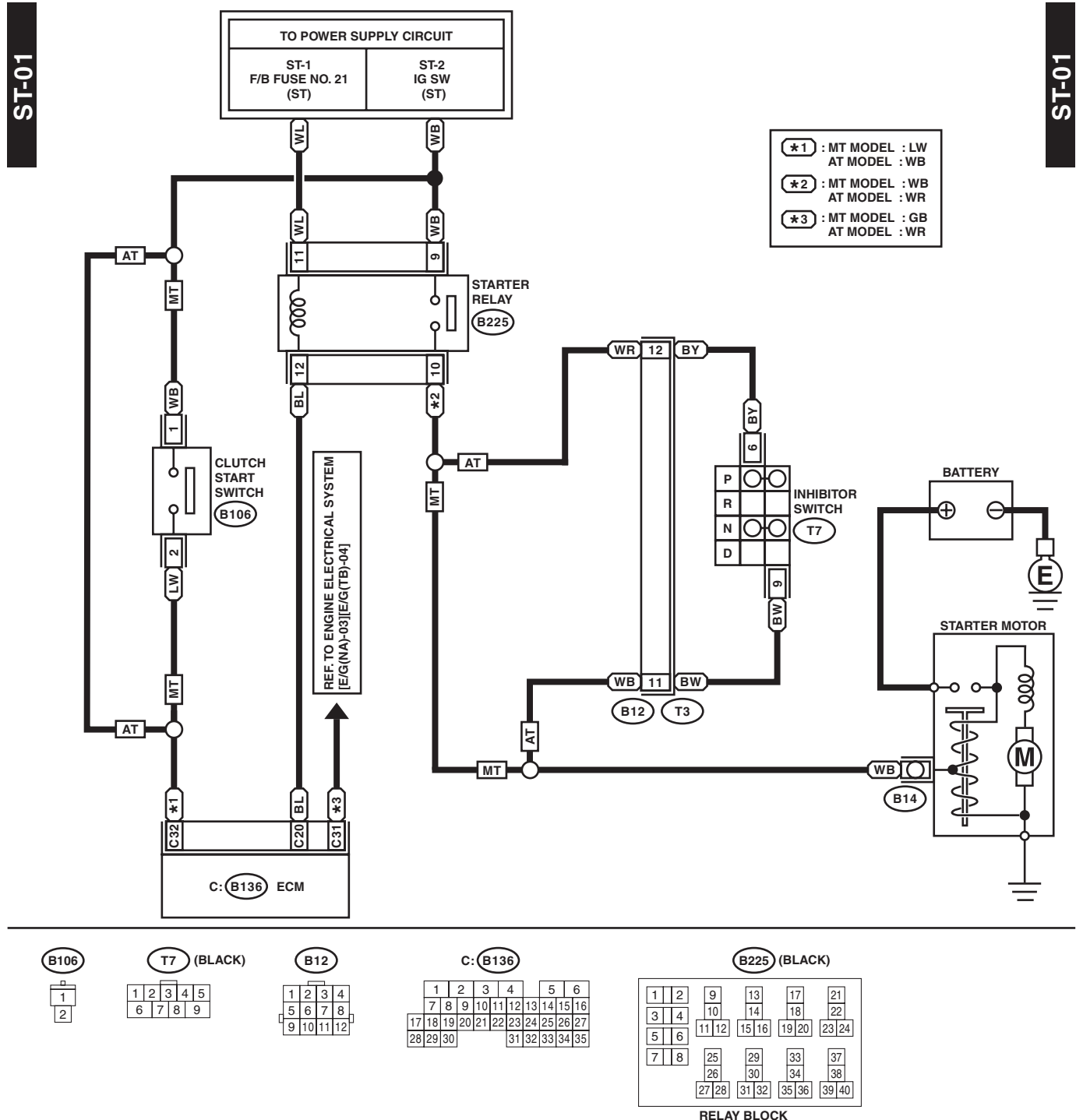


Starter System

WIRING SYSTEM

8. Starter System

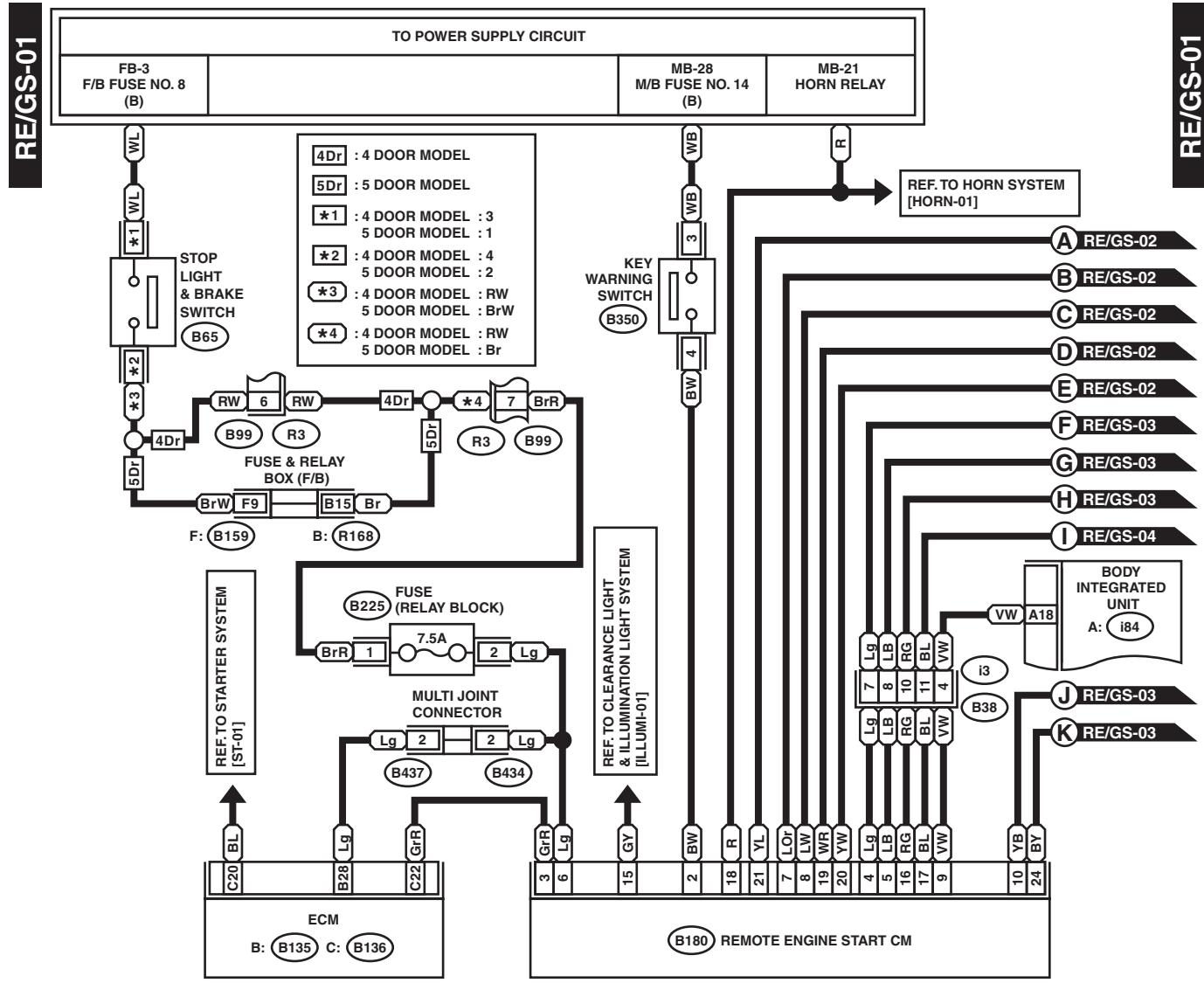
A: WIRING DIAGRAM



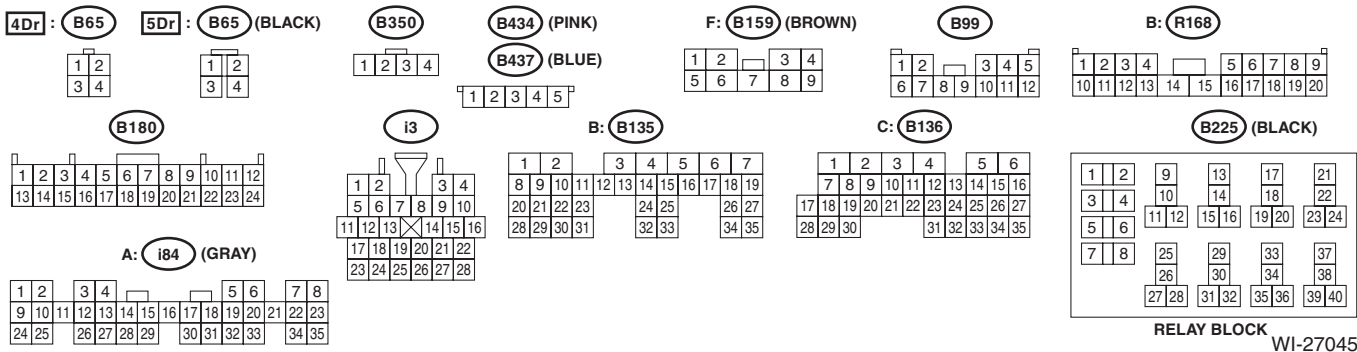
WI-27004

9. Remote Engine Start System

A: WIRING DIAGRAM

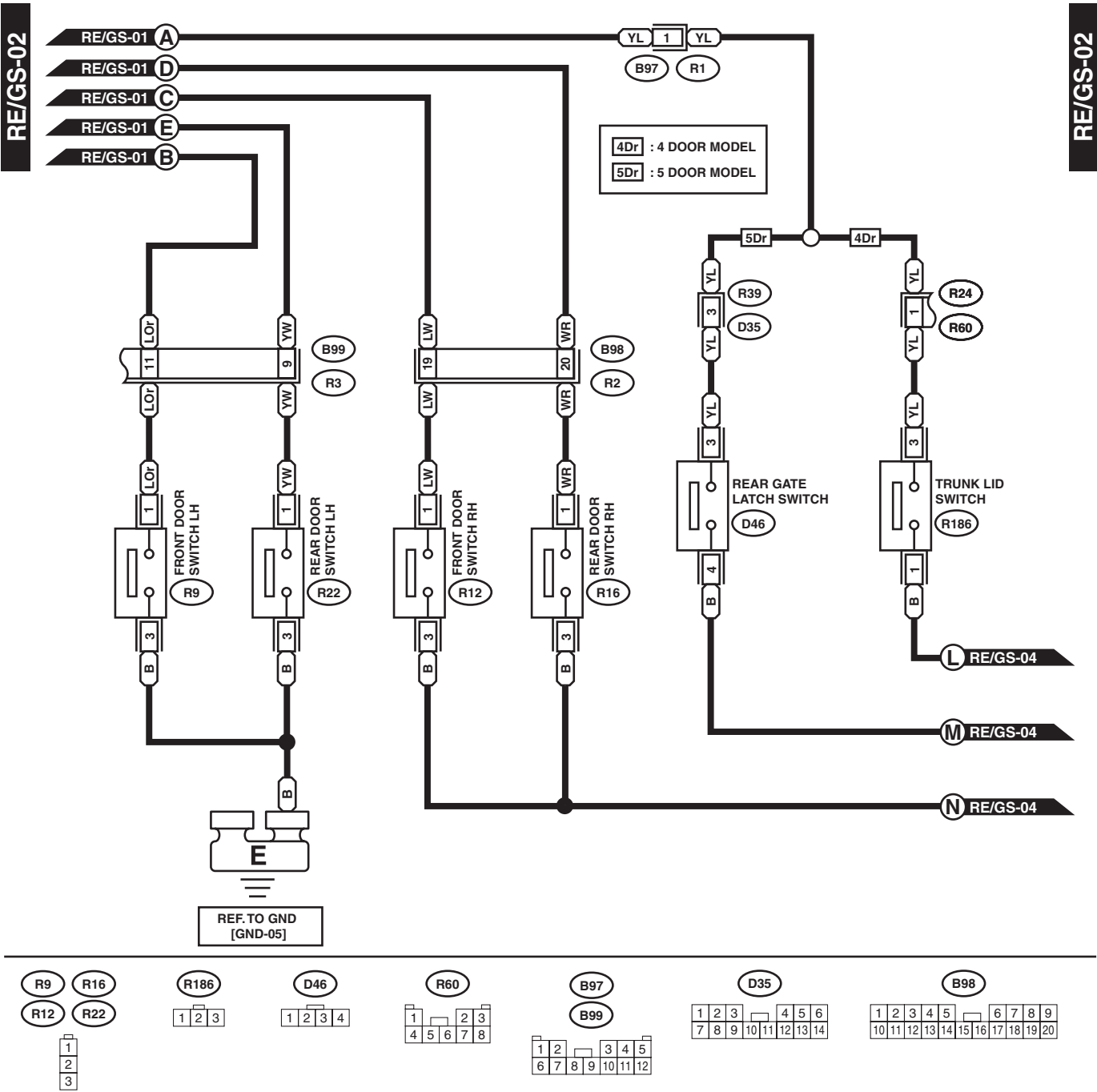


RE/GS-01



Remote Engine Start System

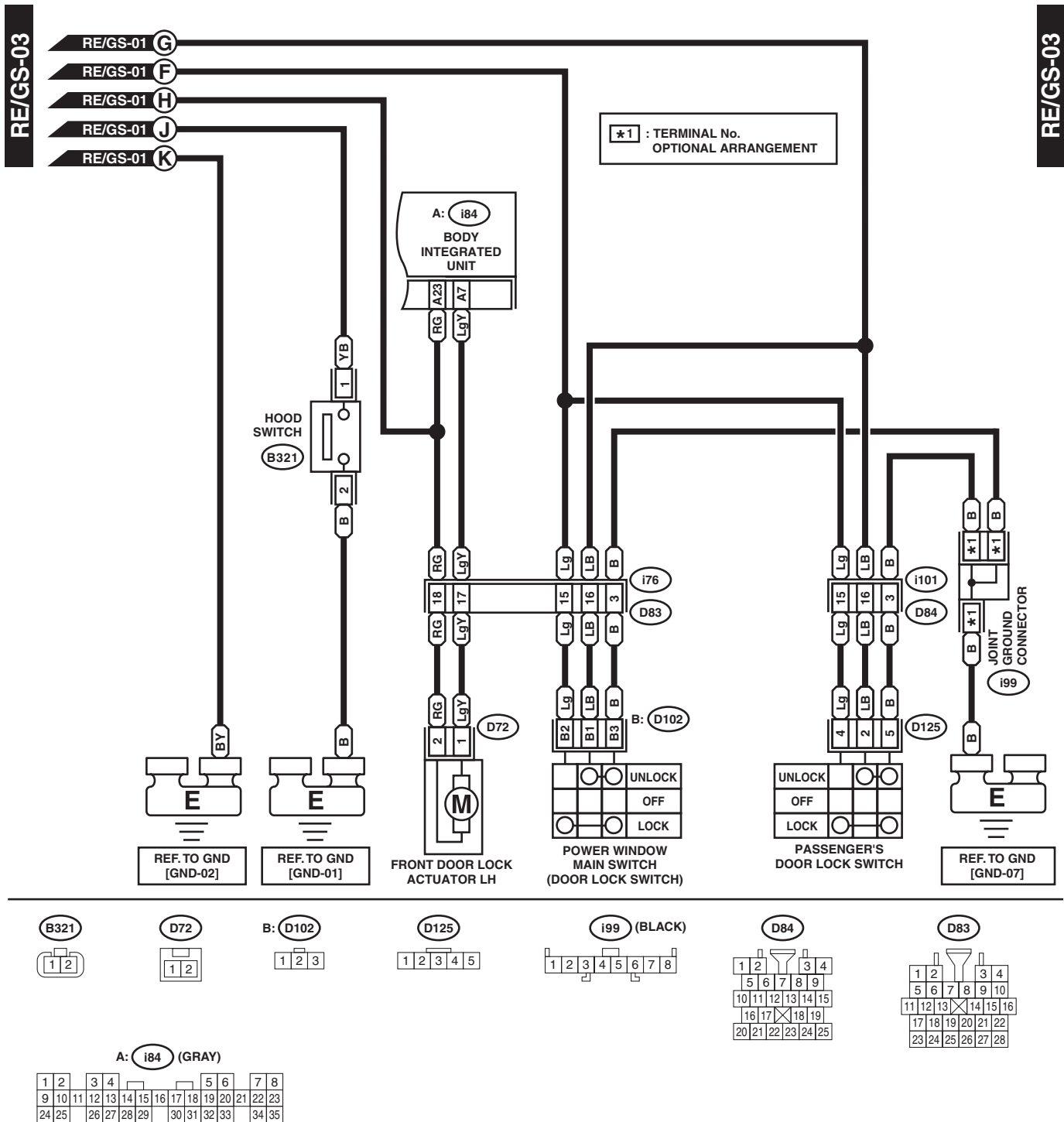
WIRING SYSTEM



WI-27005

Remote Engine Start System

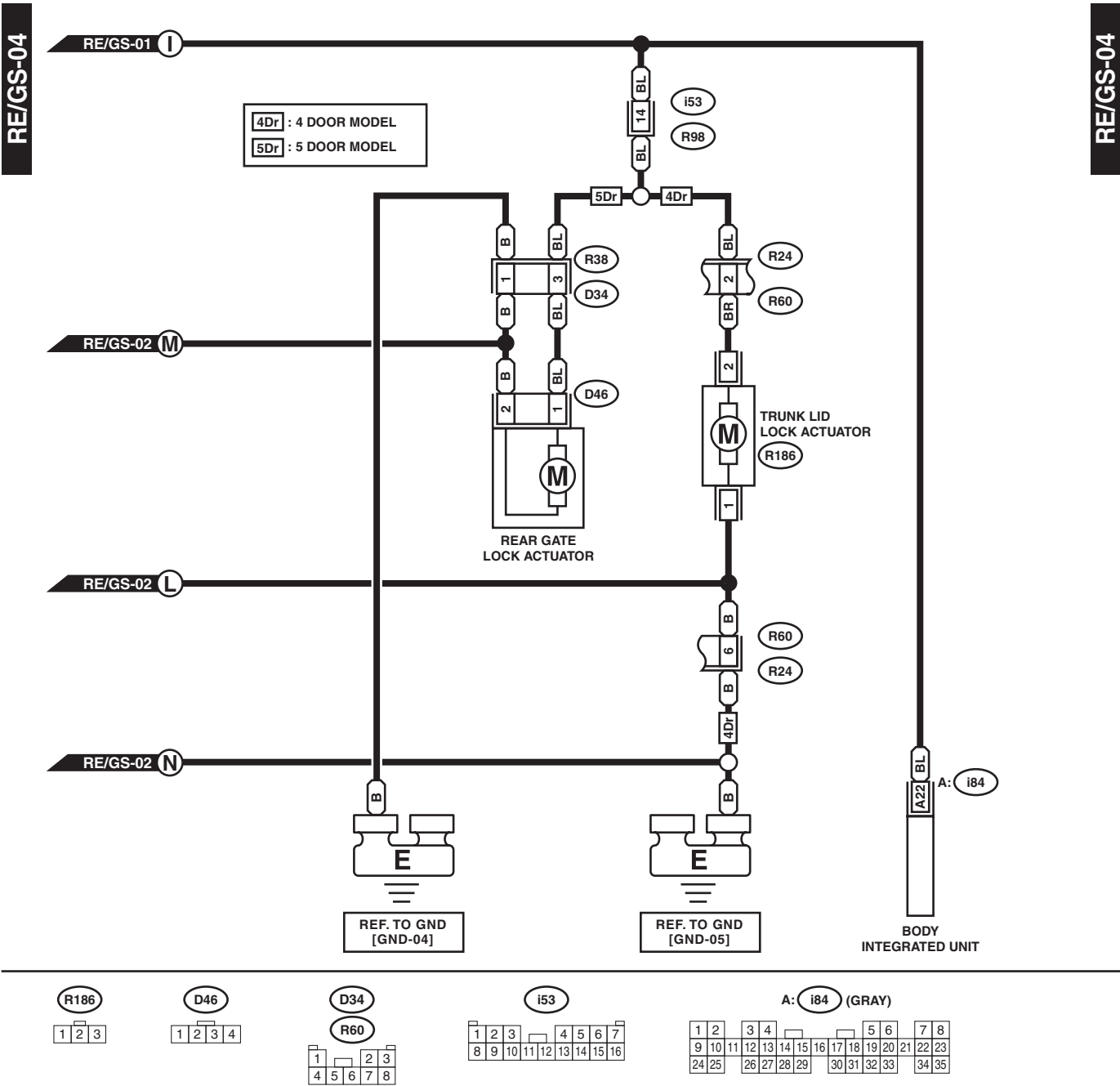
WIRING SYSTEM



WI-21411

Remote Engine Start System

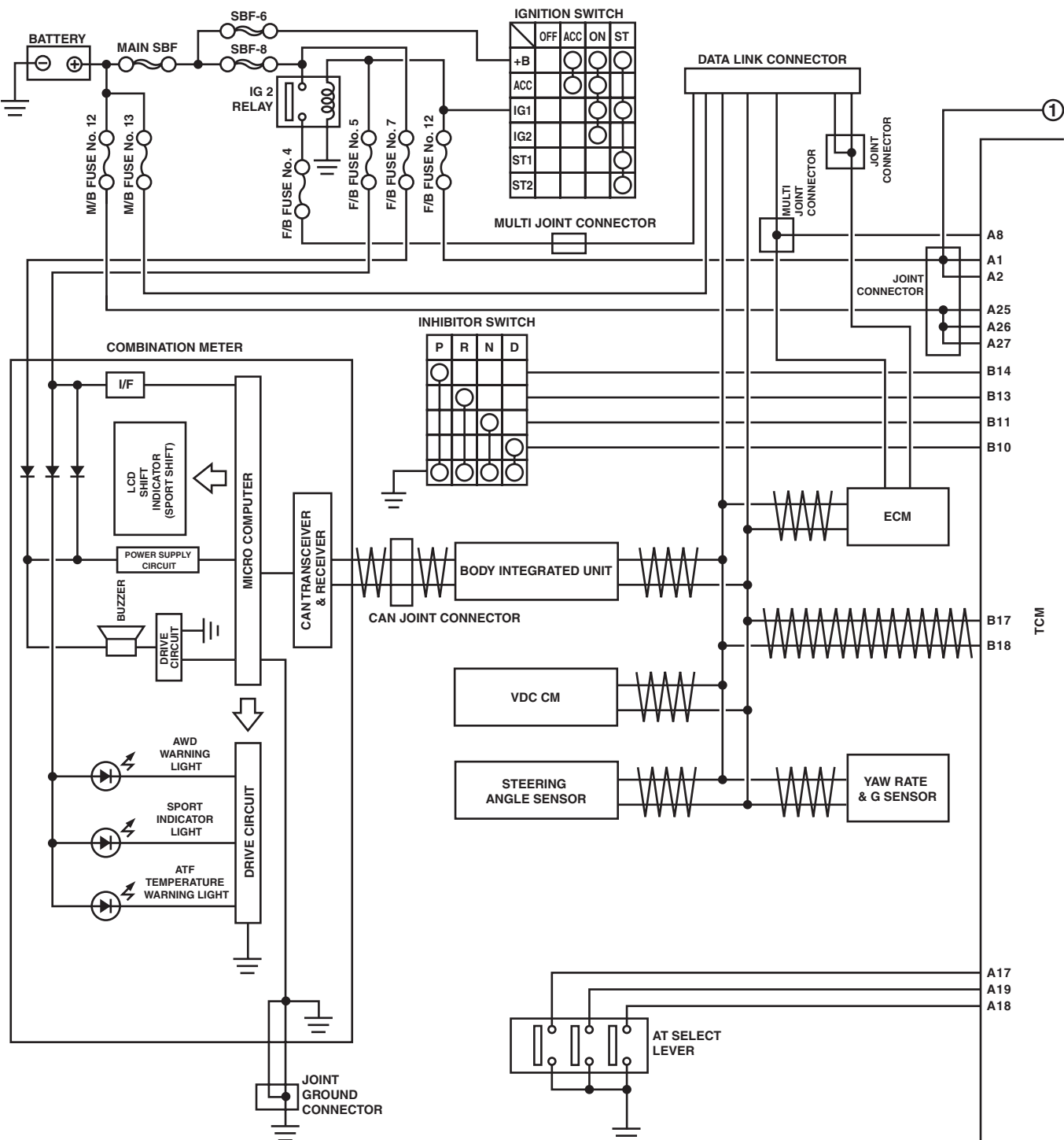
WIRING SYSTEM



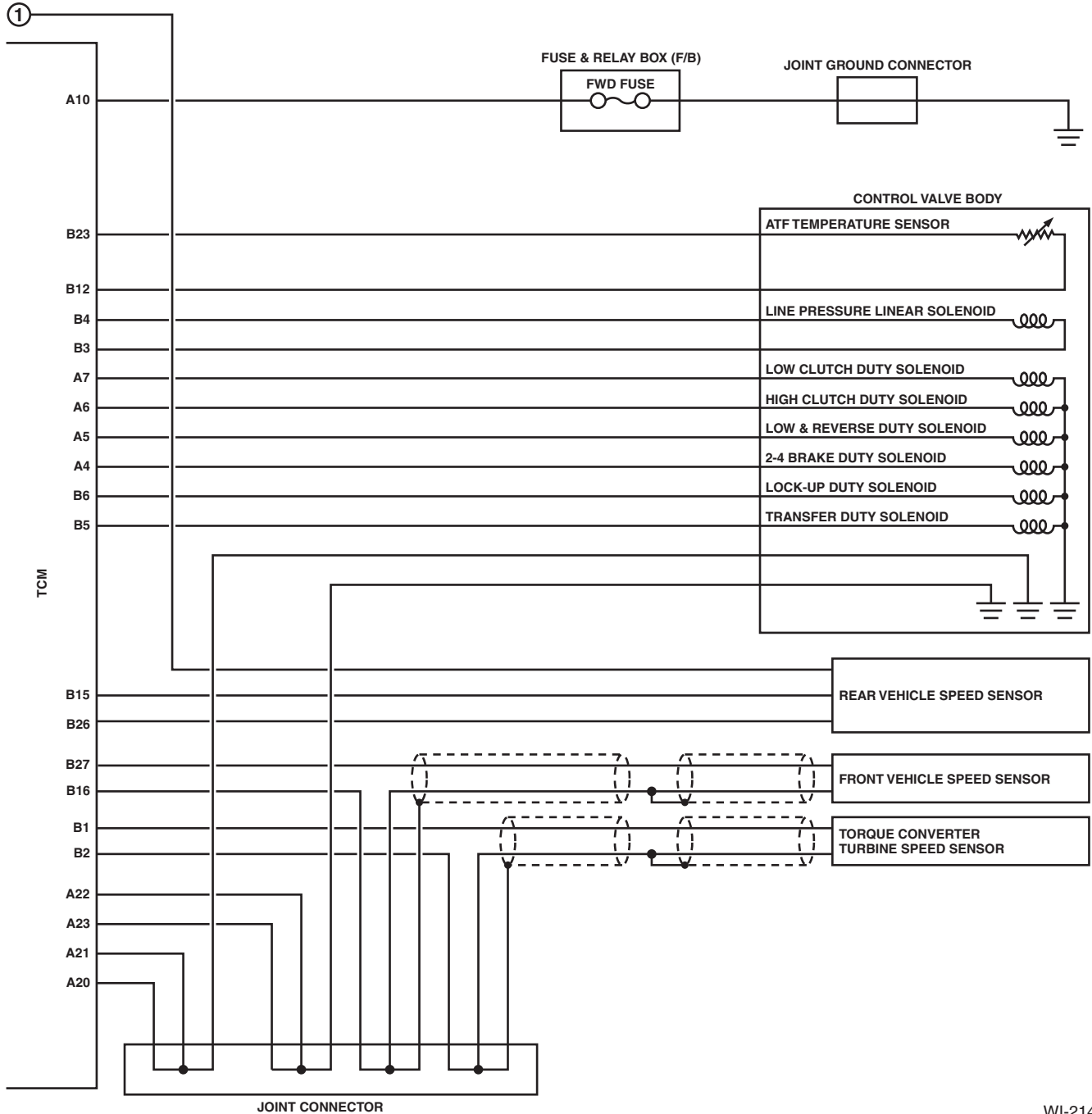
WI-21412

10.AT Control System

A: WIRING DIAGRAM



WI-27056



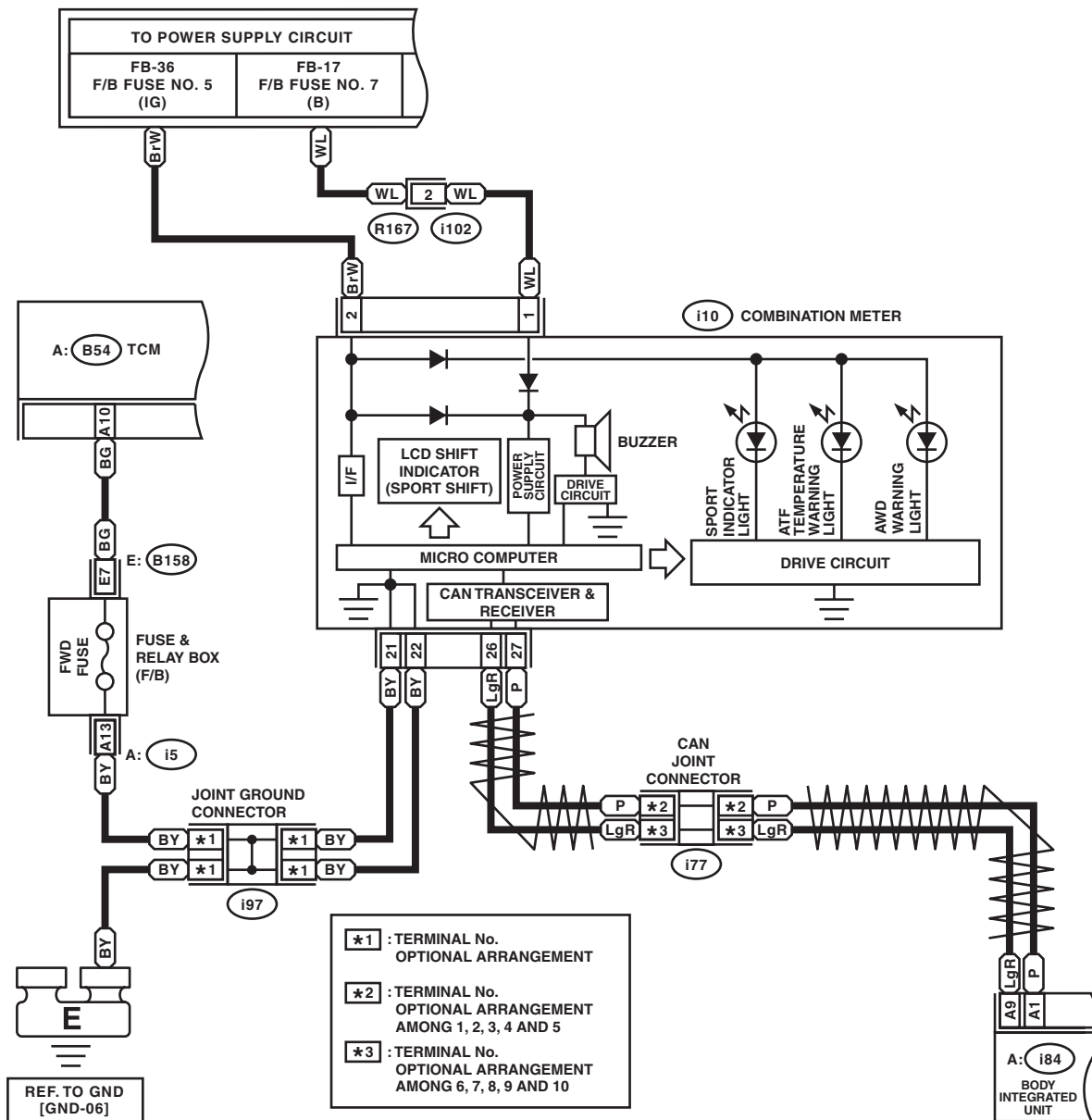
WI-21414

AT Control System

WIRING SYSTEM

AT-01

AT-01



E: B158

1	2	3	4
5	6	7	8

i97 (BLACK)

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

i177 (GREEN)

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

i102

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

A: i5

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

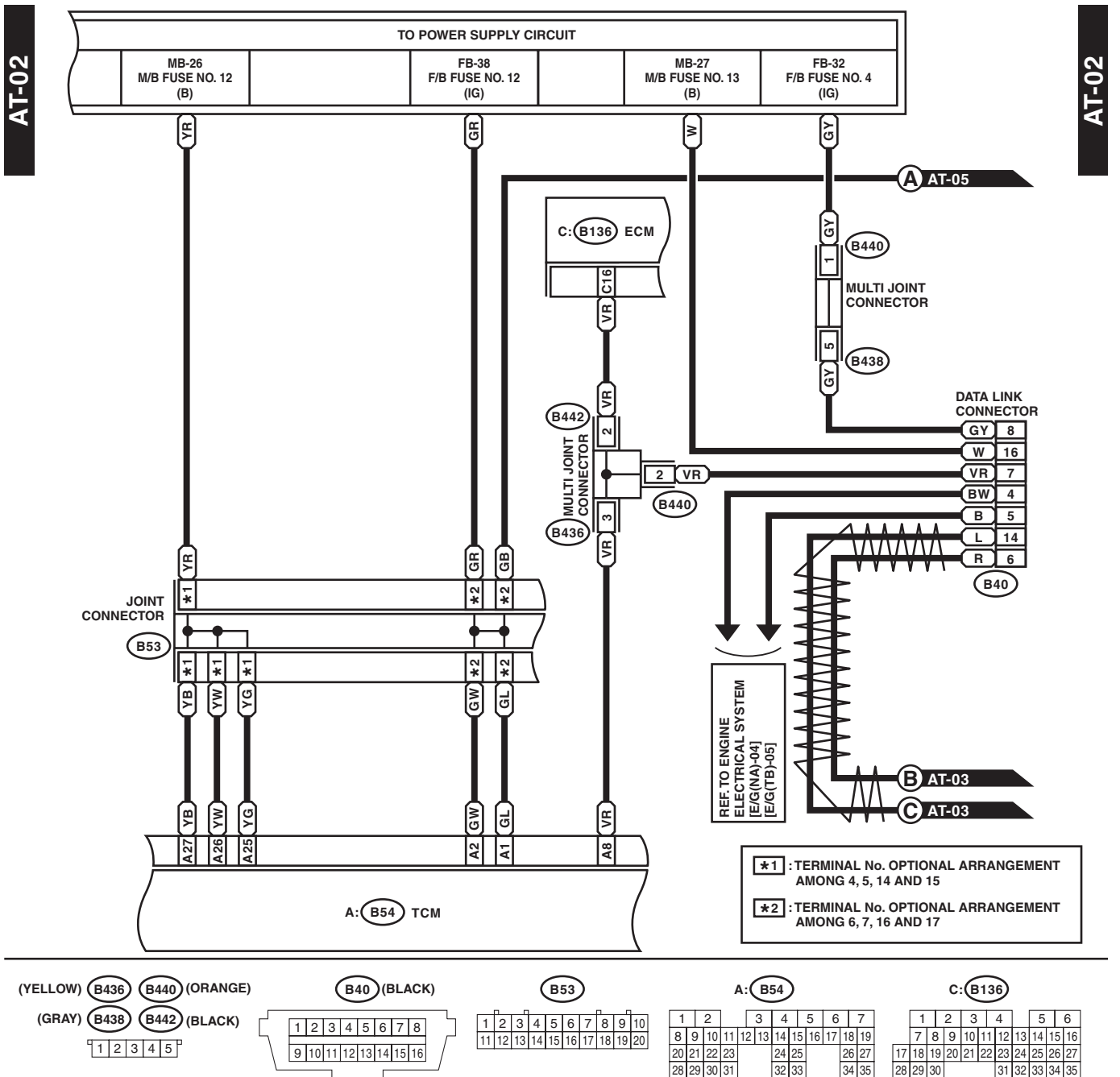
A: i84 (GRAY)

1	2		3	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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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

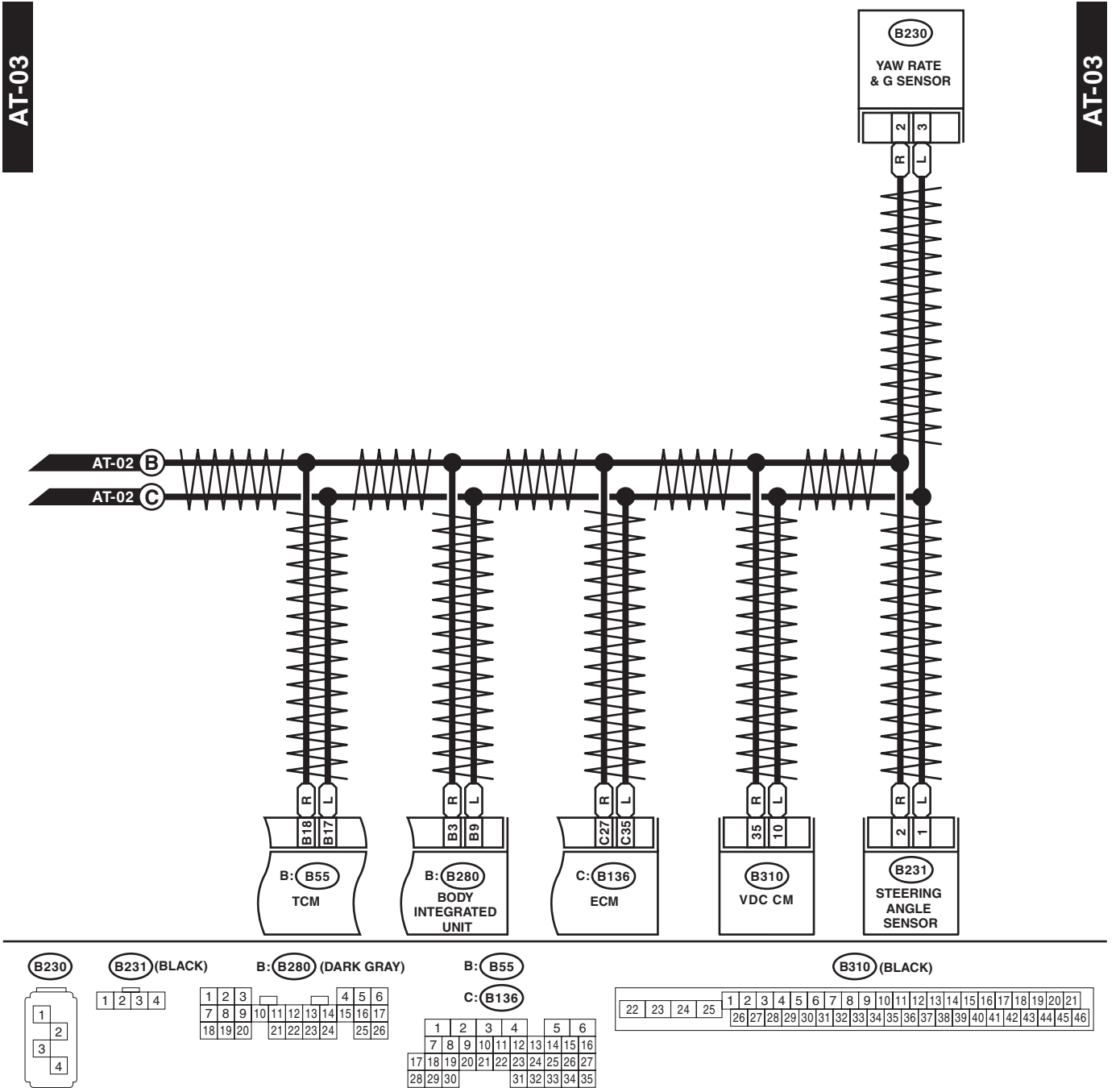
WI-22947



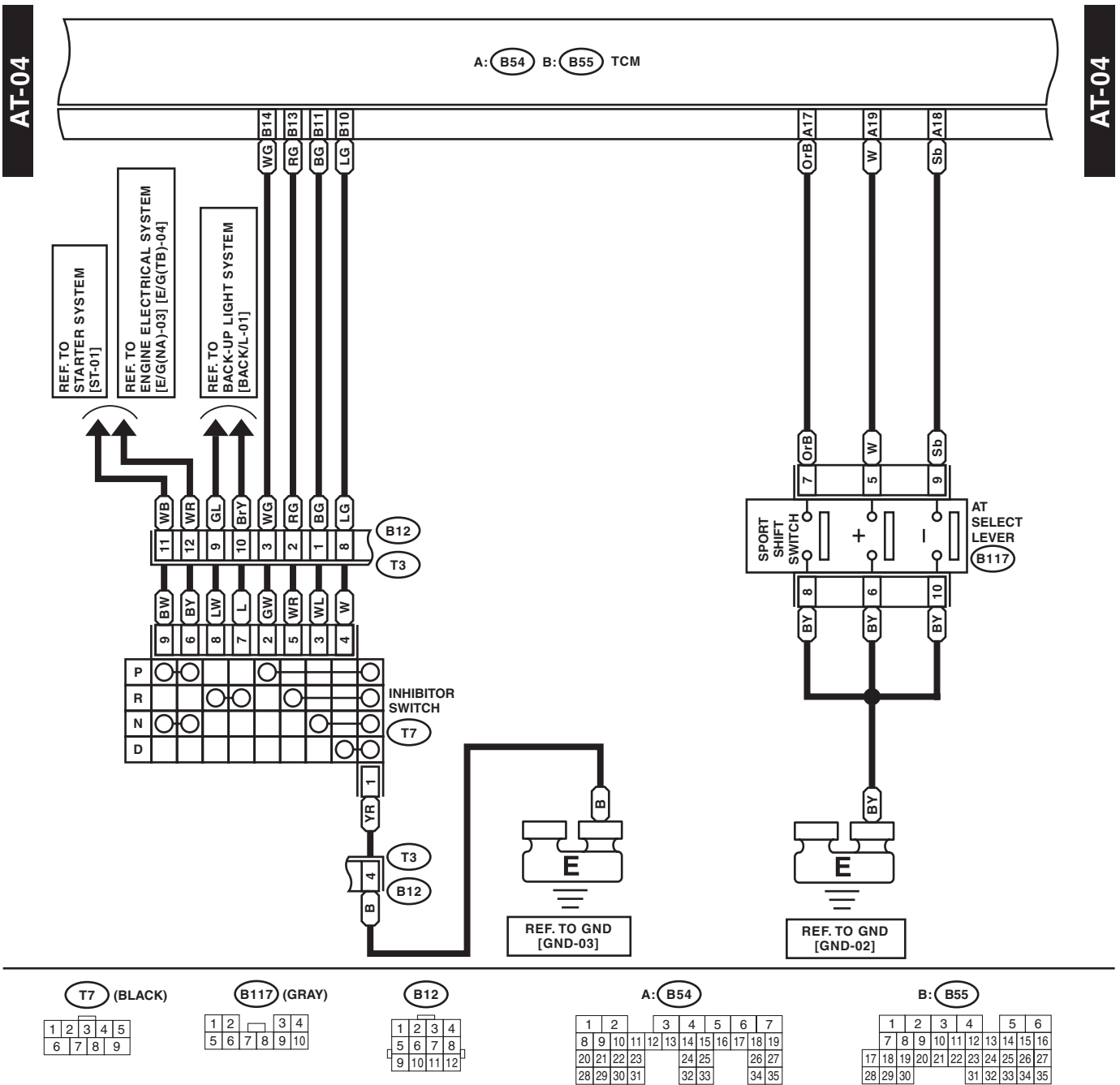
WI-27912

AT Control System

WIRING SYSTEM



WI-27006



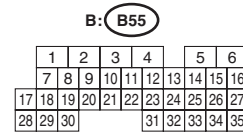
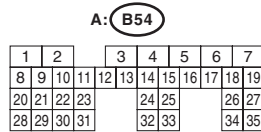
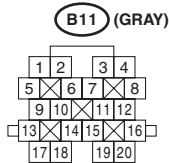
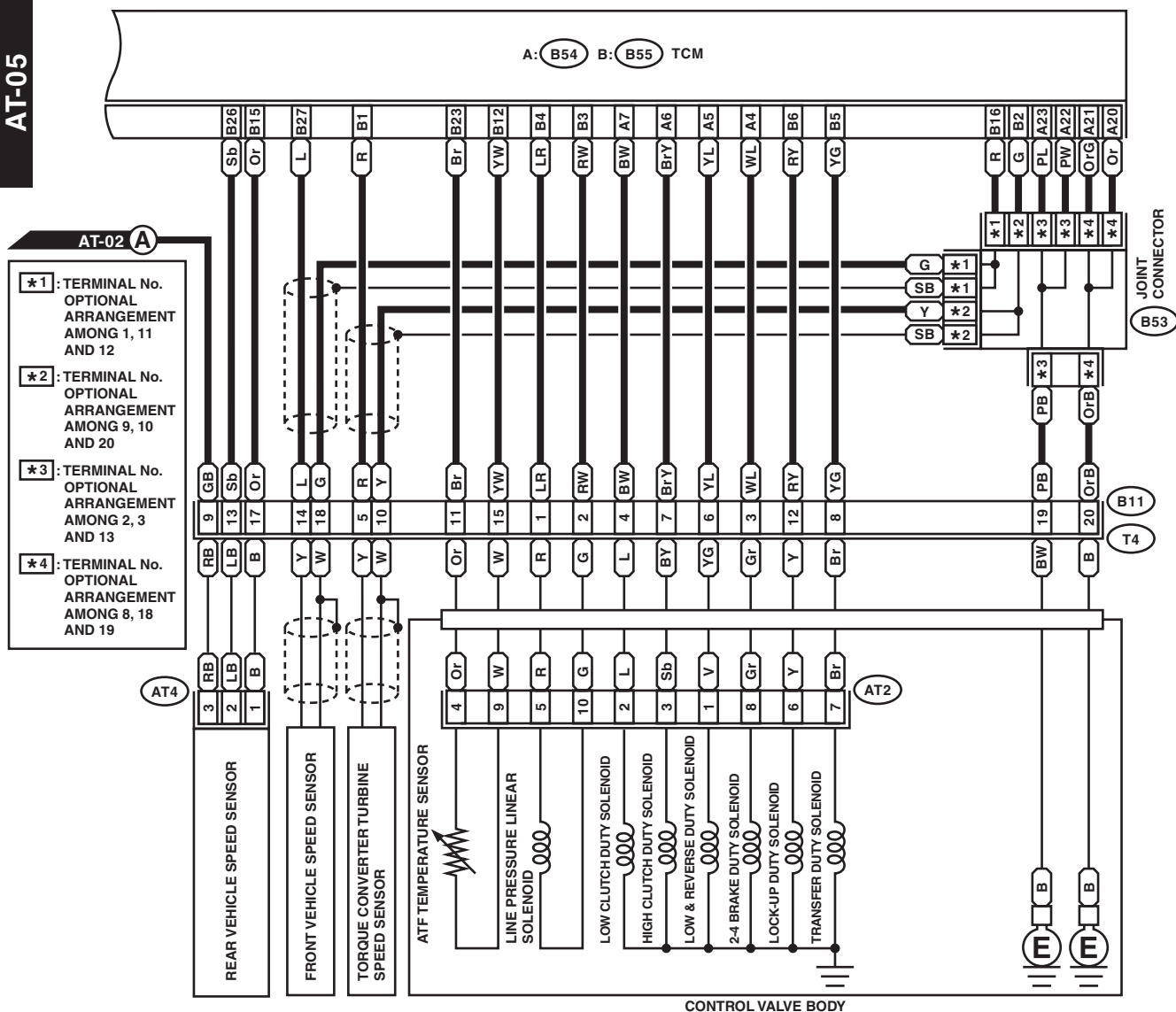
WI-21417

AT Control System

WIRING SYSTEM

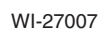
AT-05

AT-05



WI-27913

A: WIRING DIAGRAM

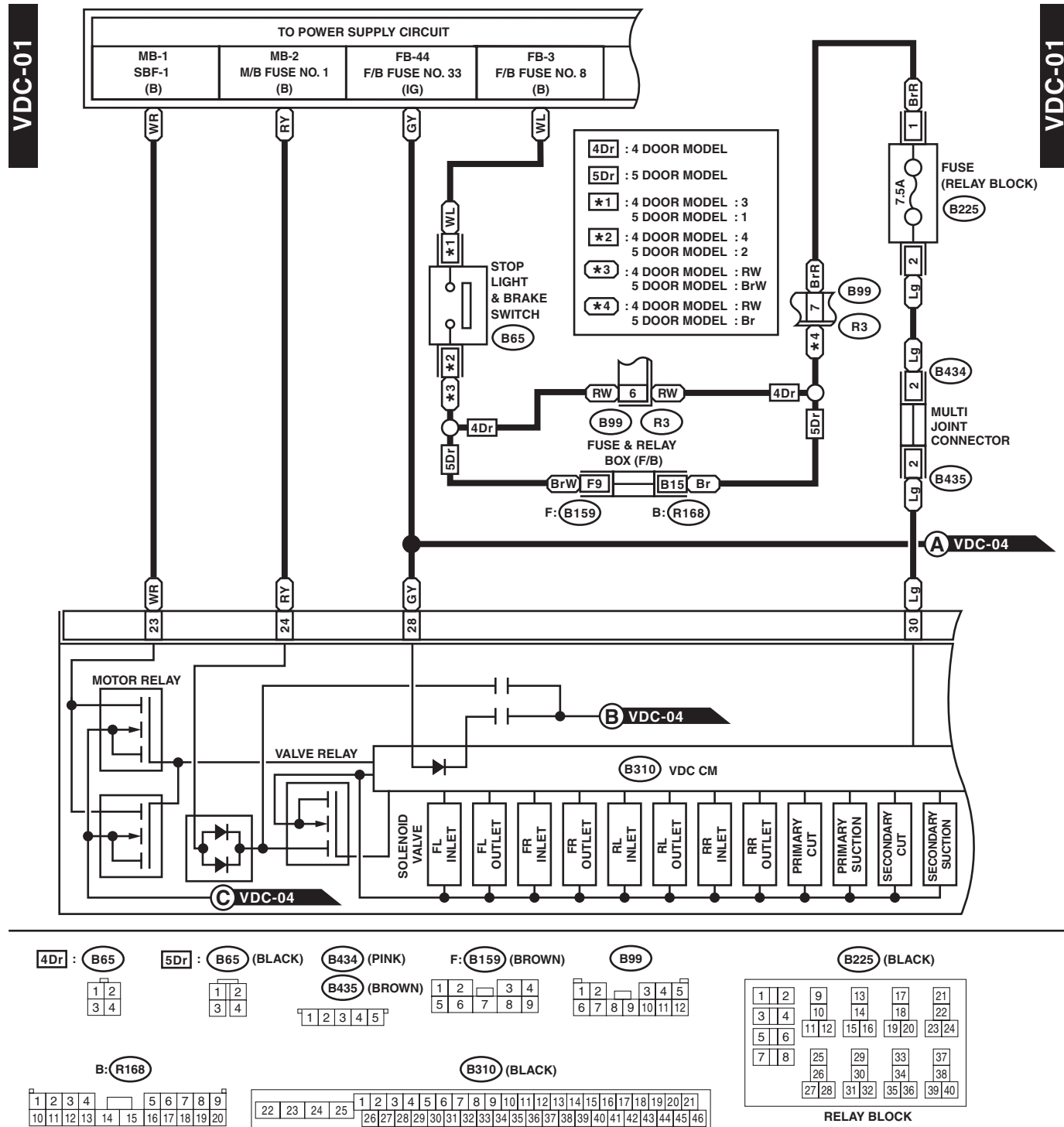


Vehicle Dynamics Control System

WIRING SYSTEM

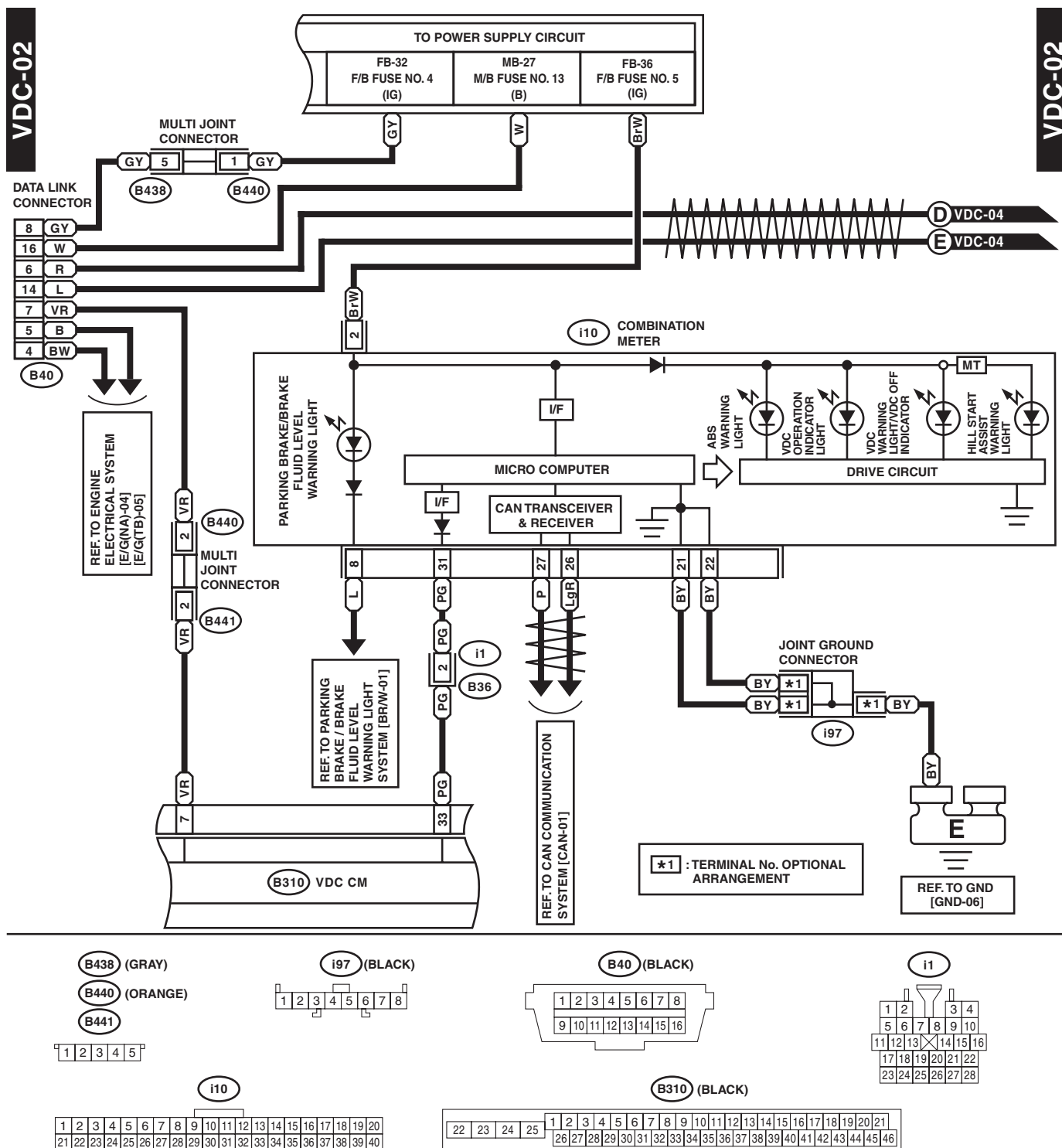
12. Vehicle Dynamics Control System

A: WIRING DIAGRAM



Vehicle Dynamics Control System

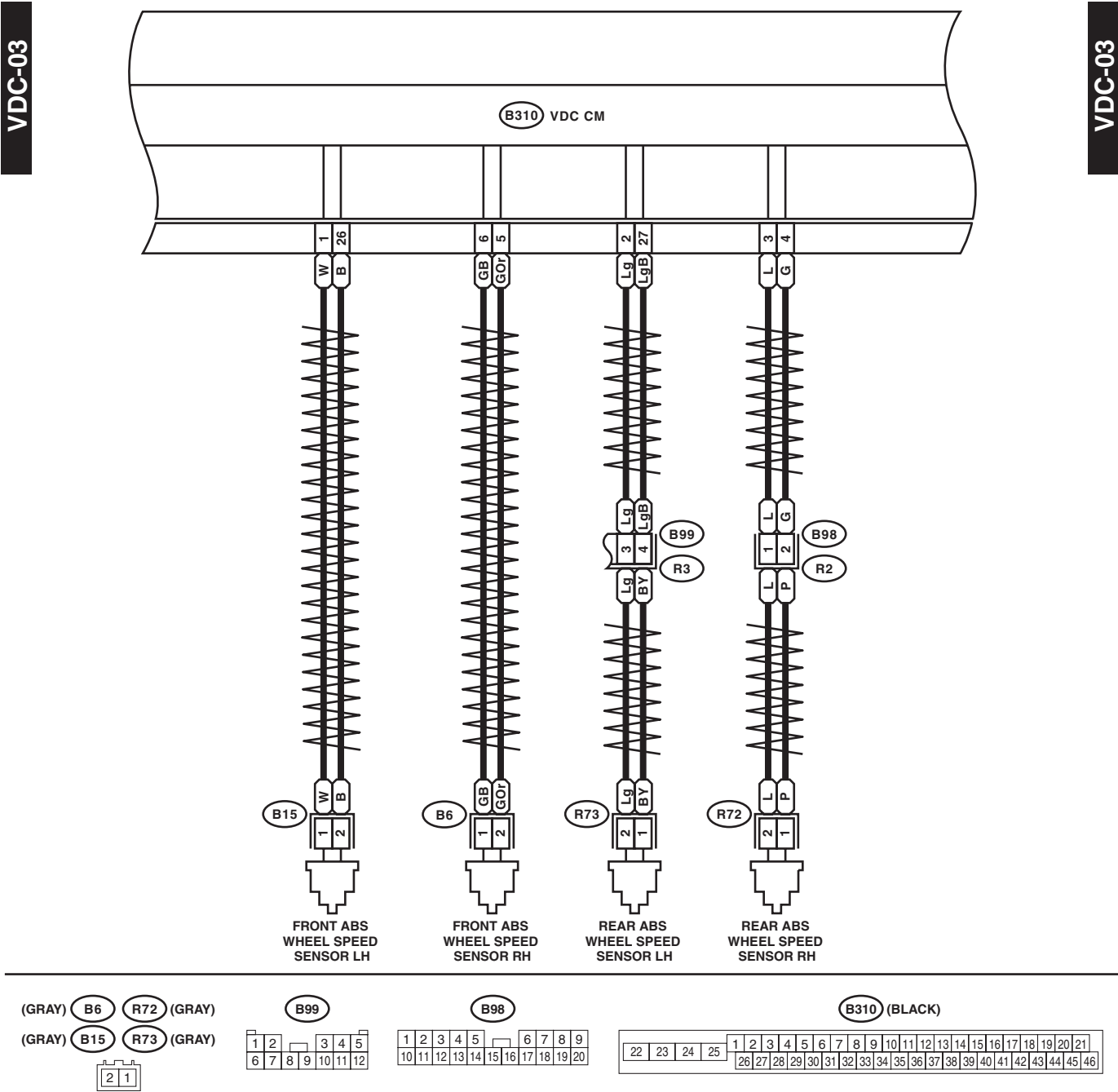
WIRING SYSTEM



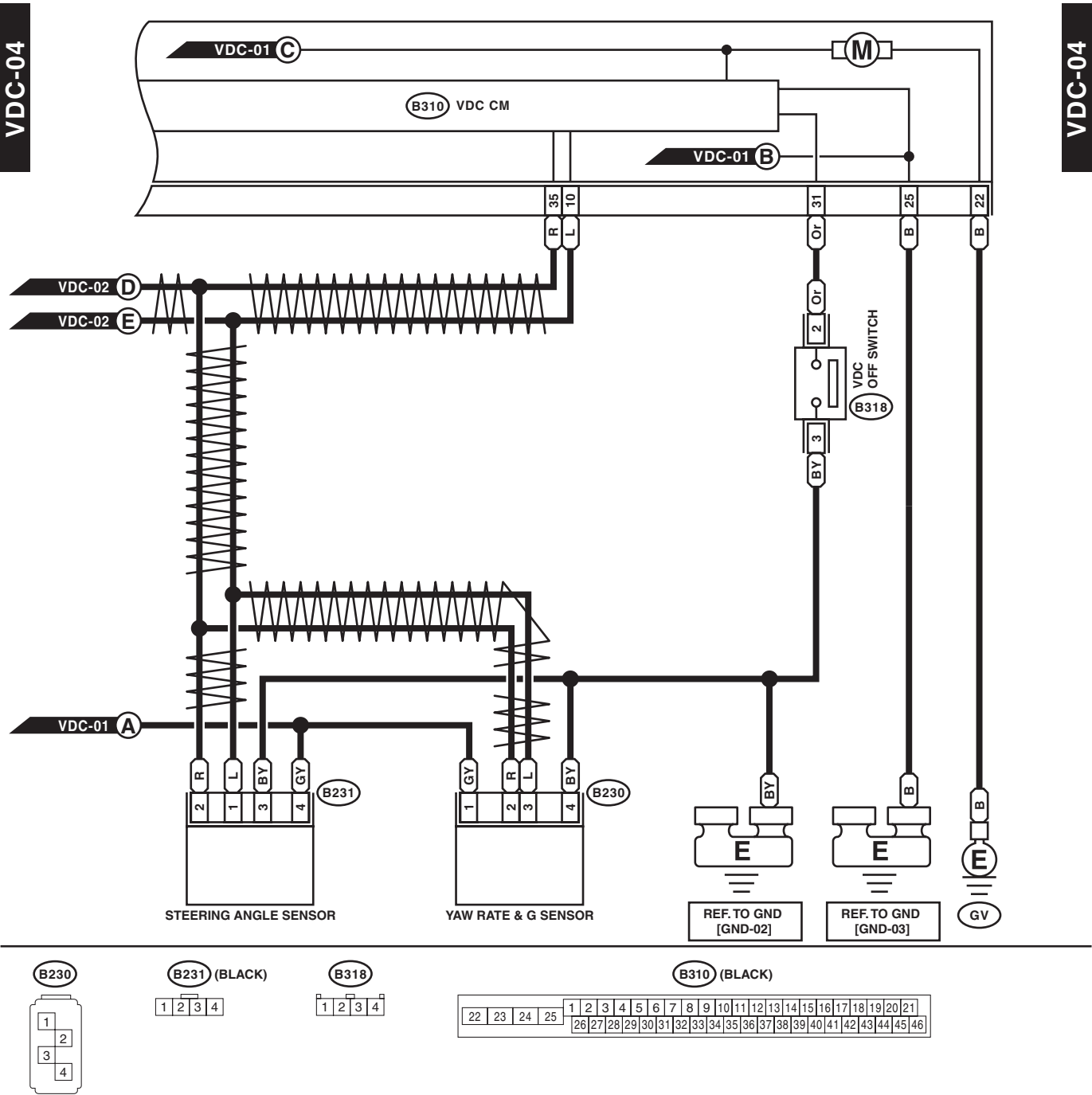
WI-27914

Vehicle Dynamics Control System

WIRING SYSTEM



WI-27915

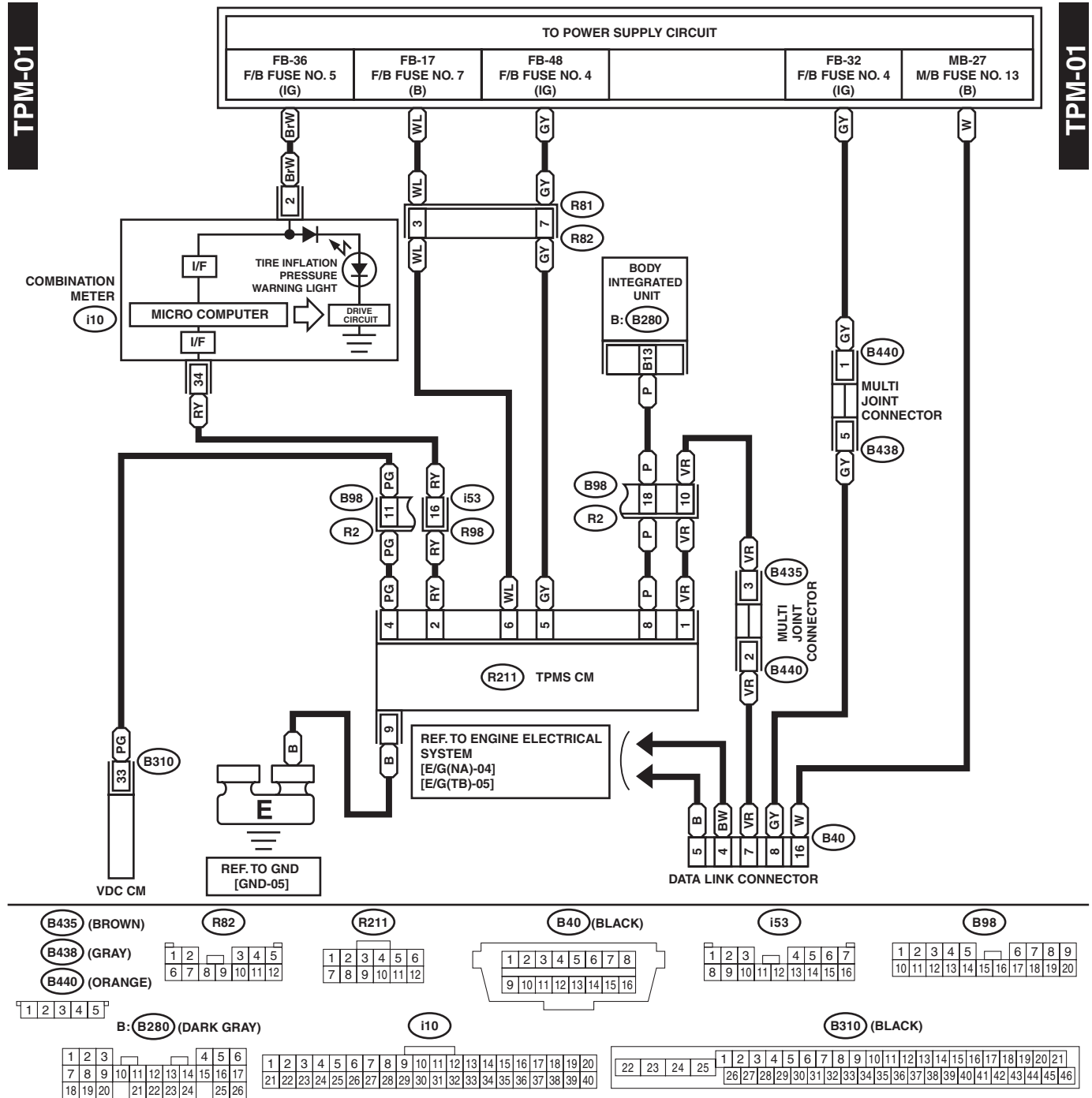


Tire Pressure Monitoring System

WIRING SYSTEM

13. Tire Pressure Monitoring System

A: WIRING DIAGRAM

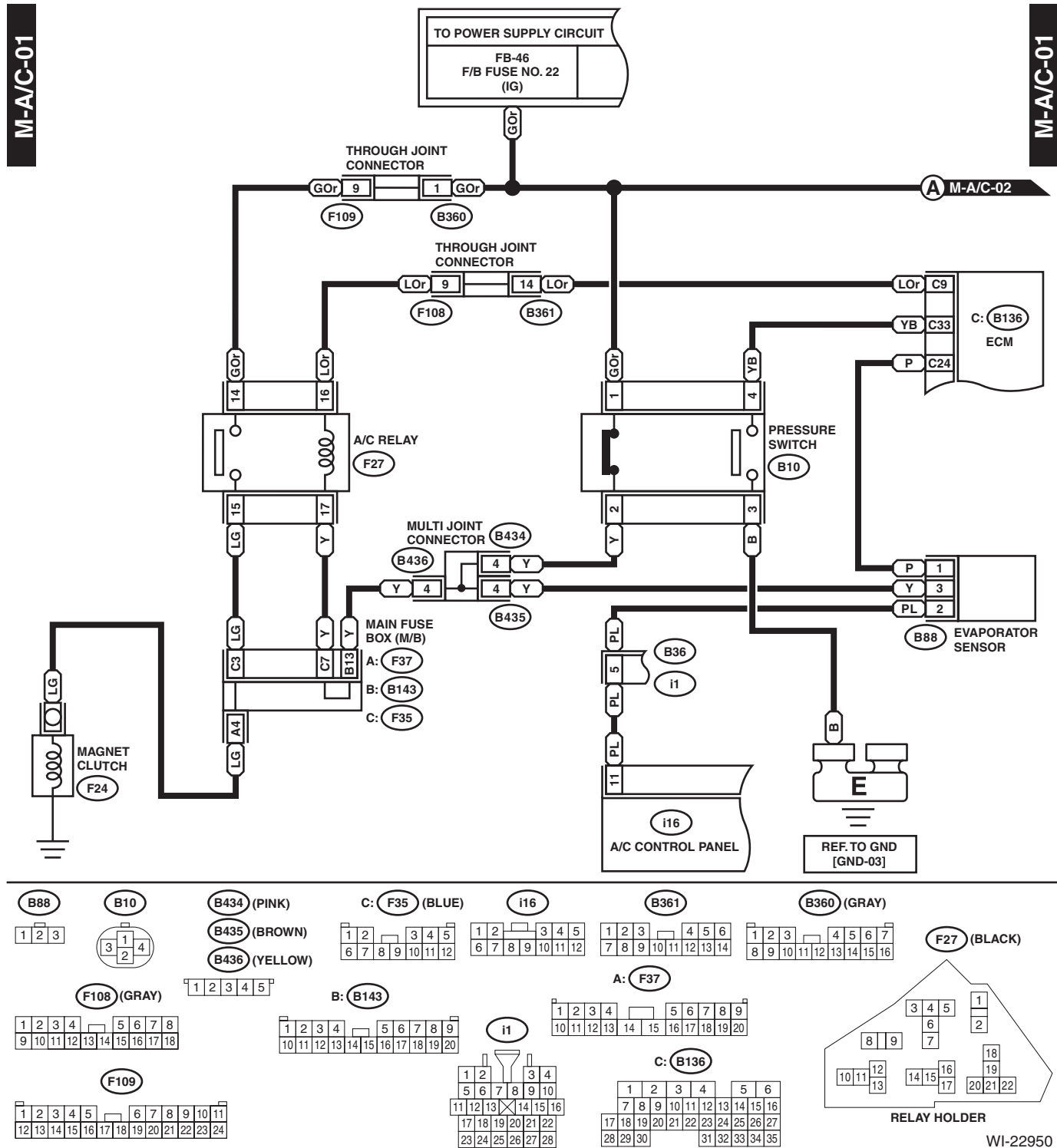


WI-27008

14. Air Conditioning System

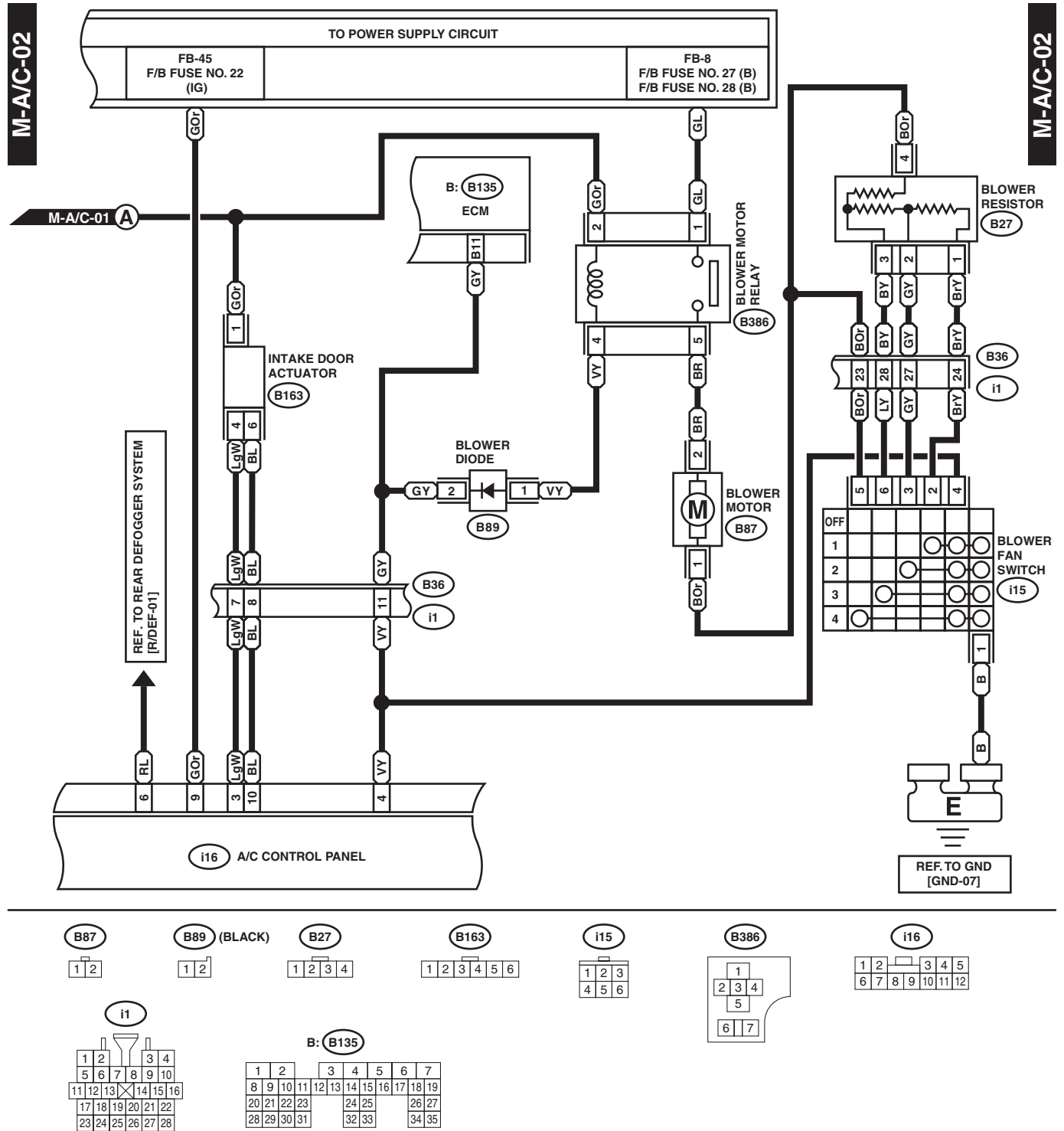
A: WIRING DIAGRAM

1. MANUAL A/C MODEL



Air Conditioning System

WIRING SYSTEM

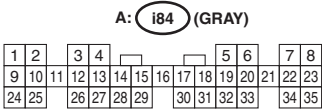
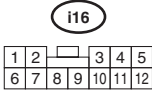
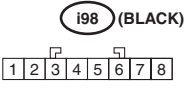
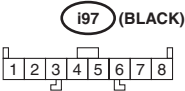
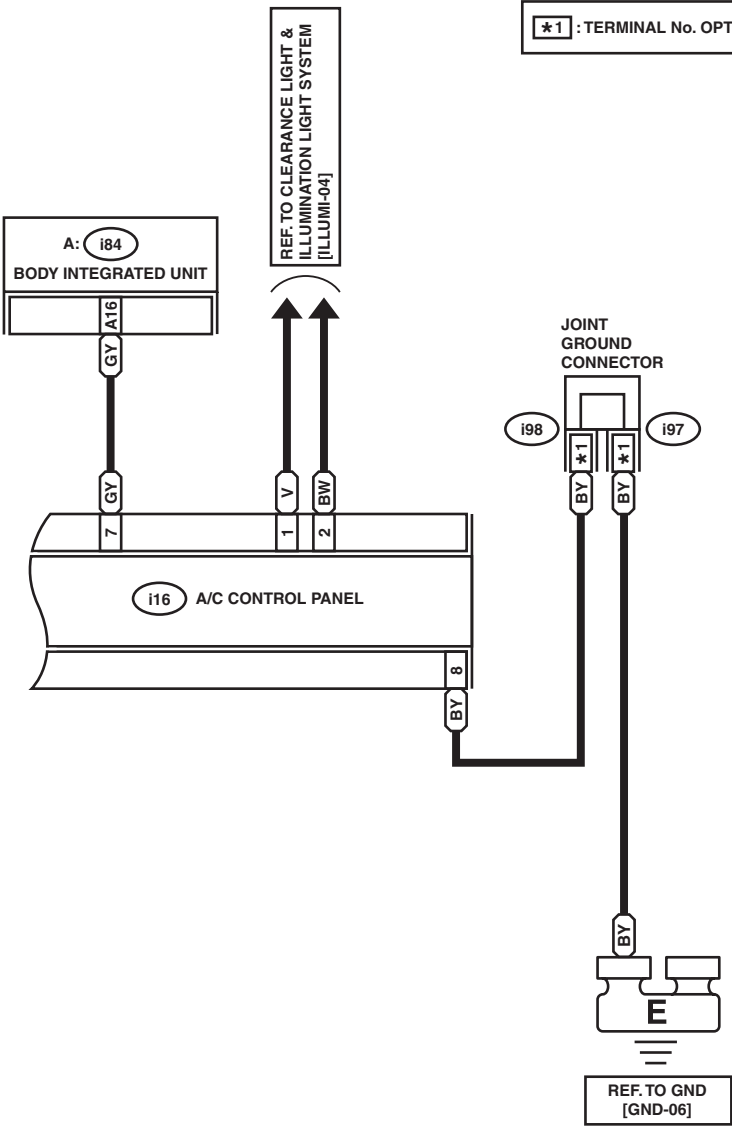


WI-21425

M-A/C-03

M-A/C-03

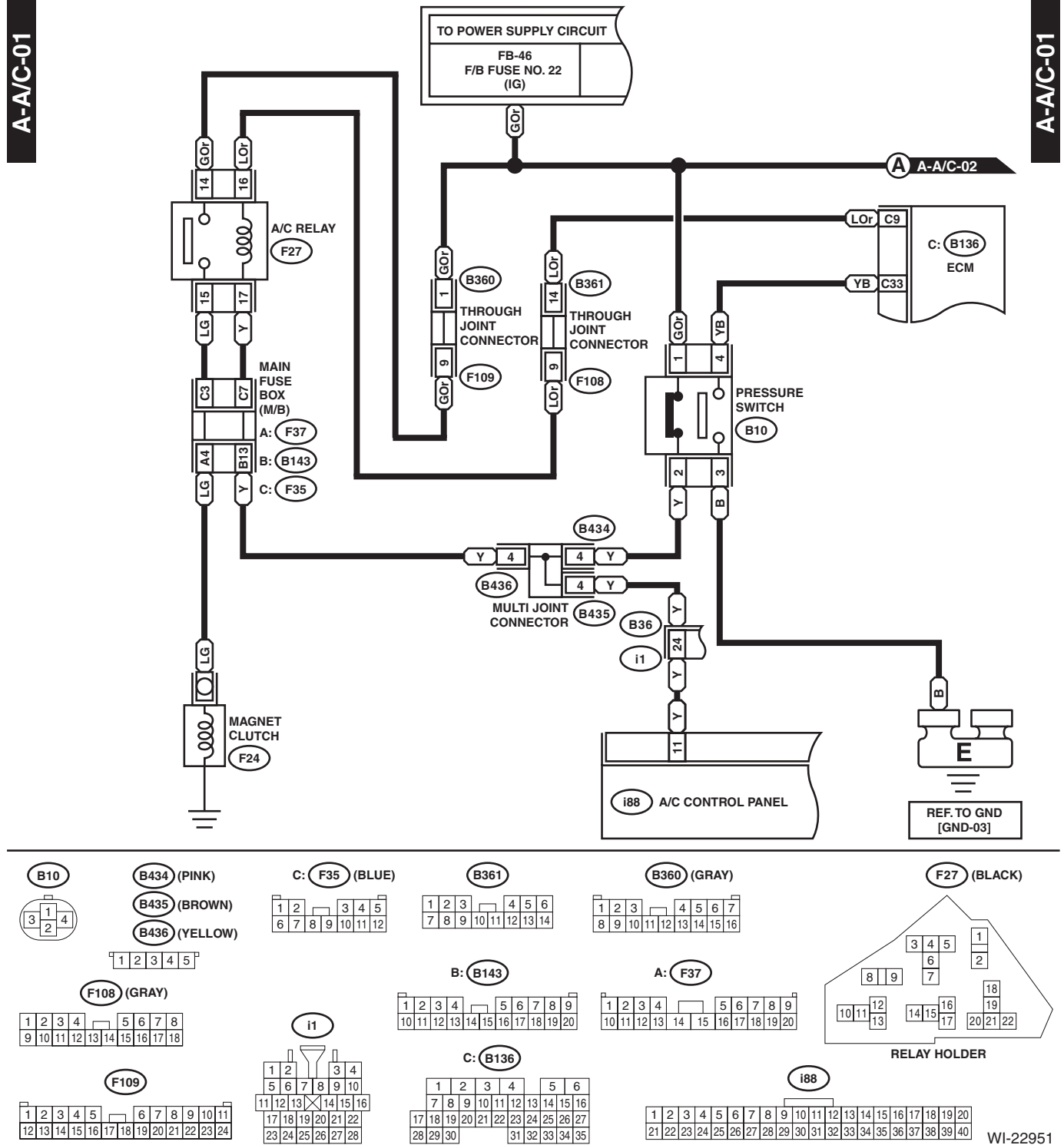
★1 : TERMINAL No. OPTIONAL ARRANGEMENT



Air Conditioning System

WIRING SYSTEM

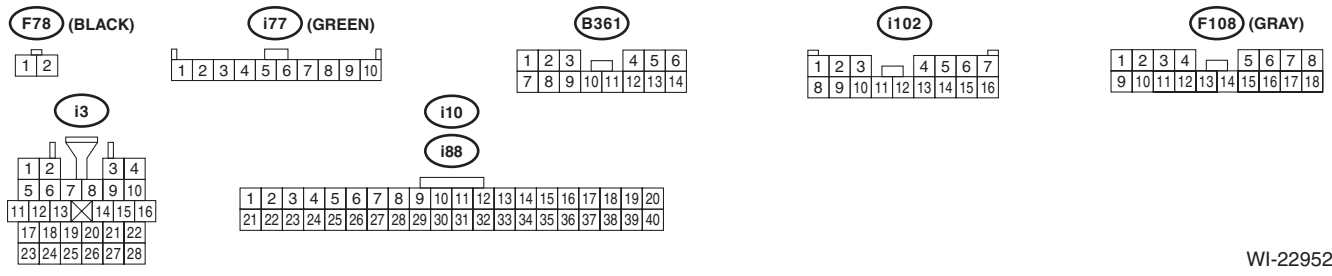
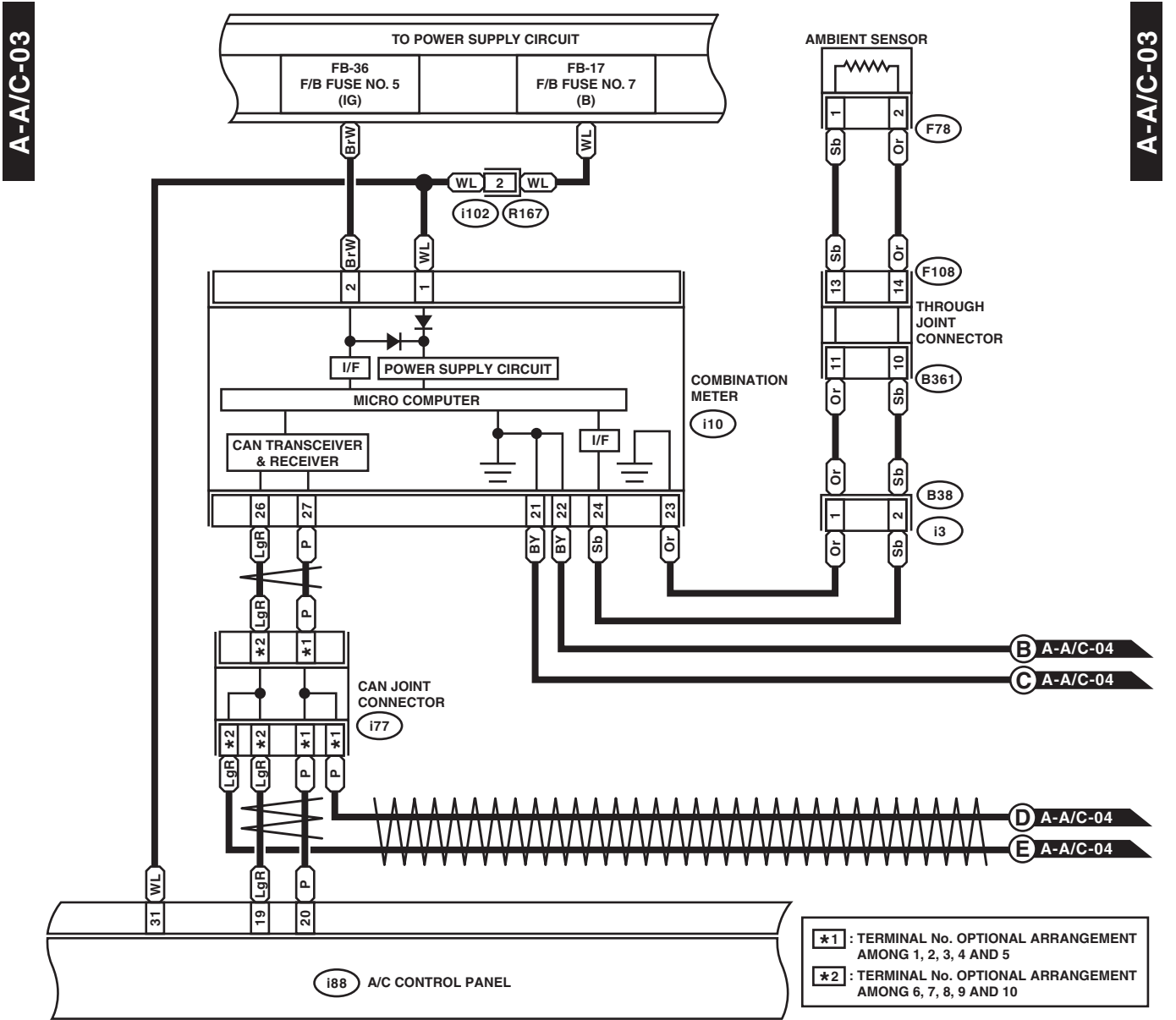
2. AUTO A/C MODEL



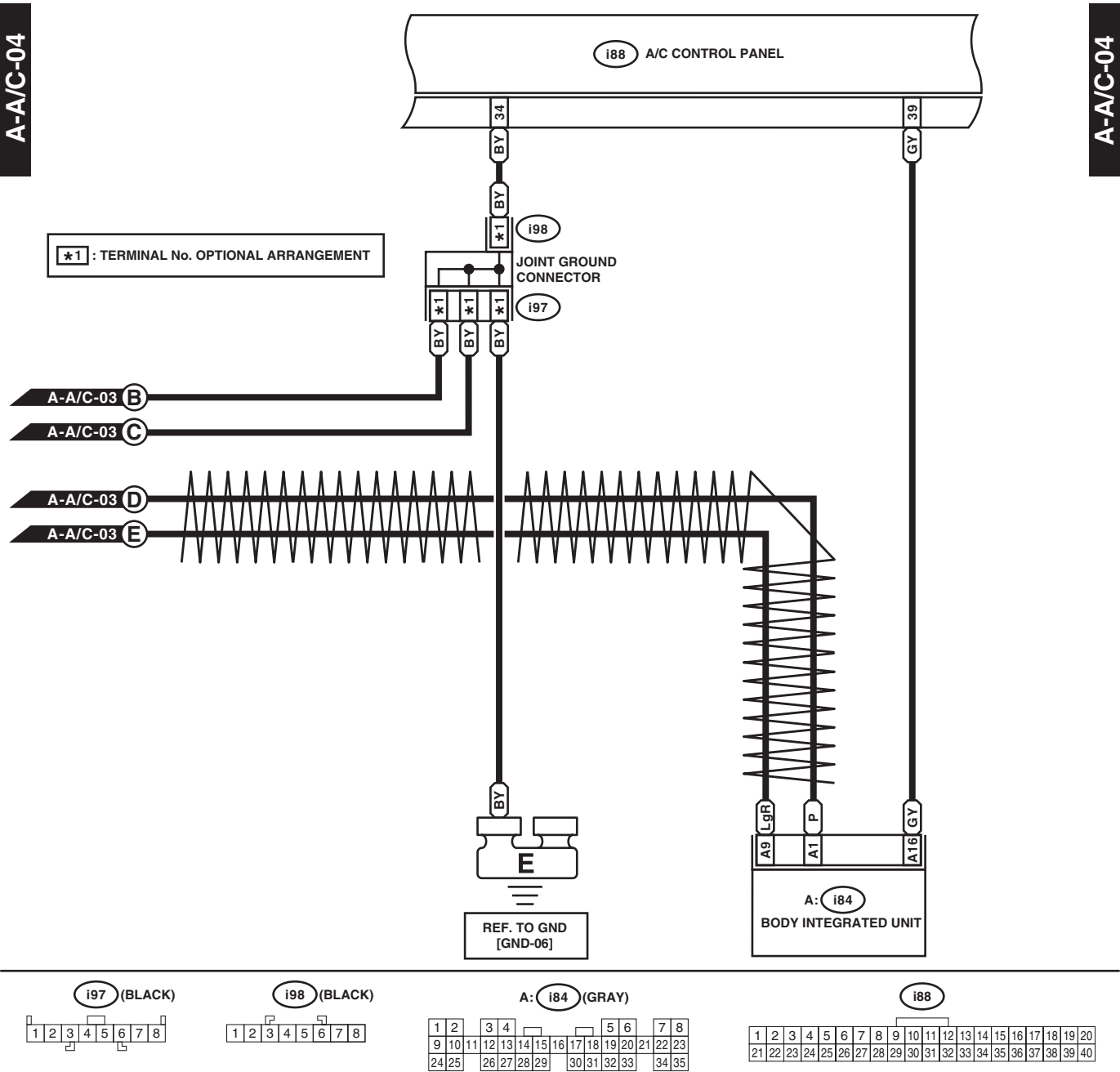
A-A/C-02

Air Conditioning System

WIRING SYSTEM



WI-22952

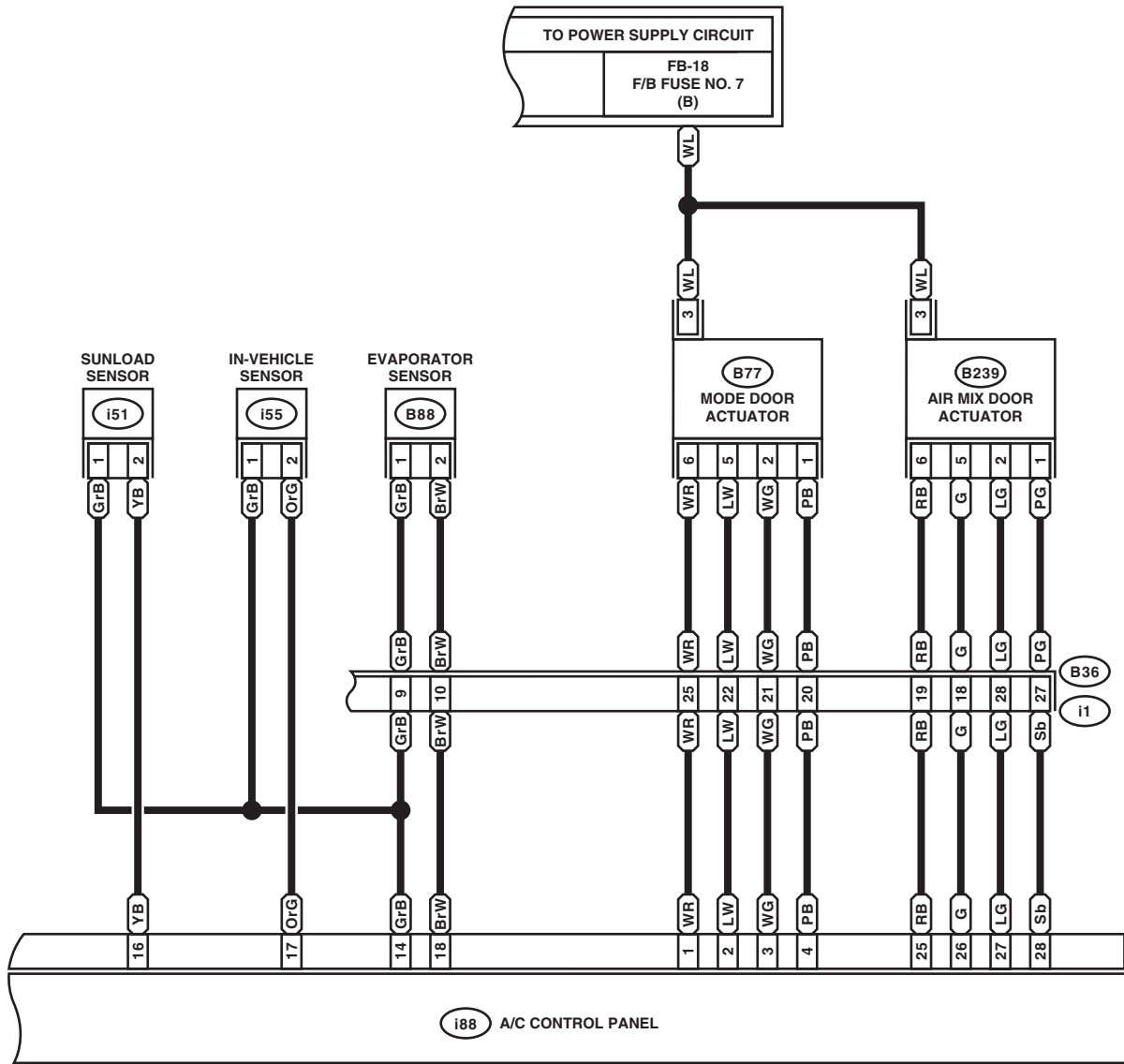


Air Conditioning System

WIRING SYSTEM

A-A/C-05

A-A/C-05



B88 (BROWN)

i51

i55

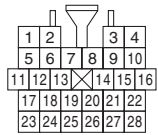
1 2

B77

B239

1 2
3 4
5 6

i1

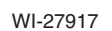


i88

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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

WI-17954

A: WIRING DIAGRAM

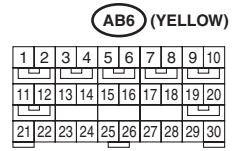
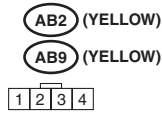
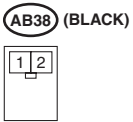
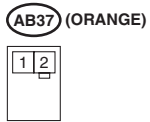
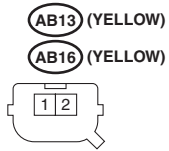
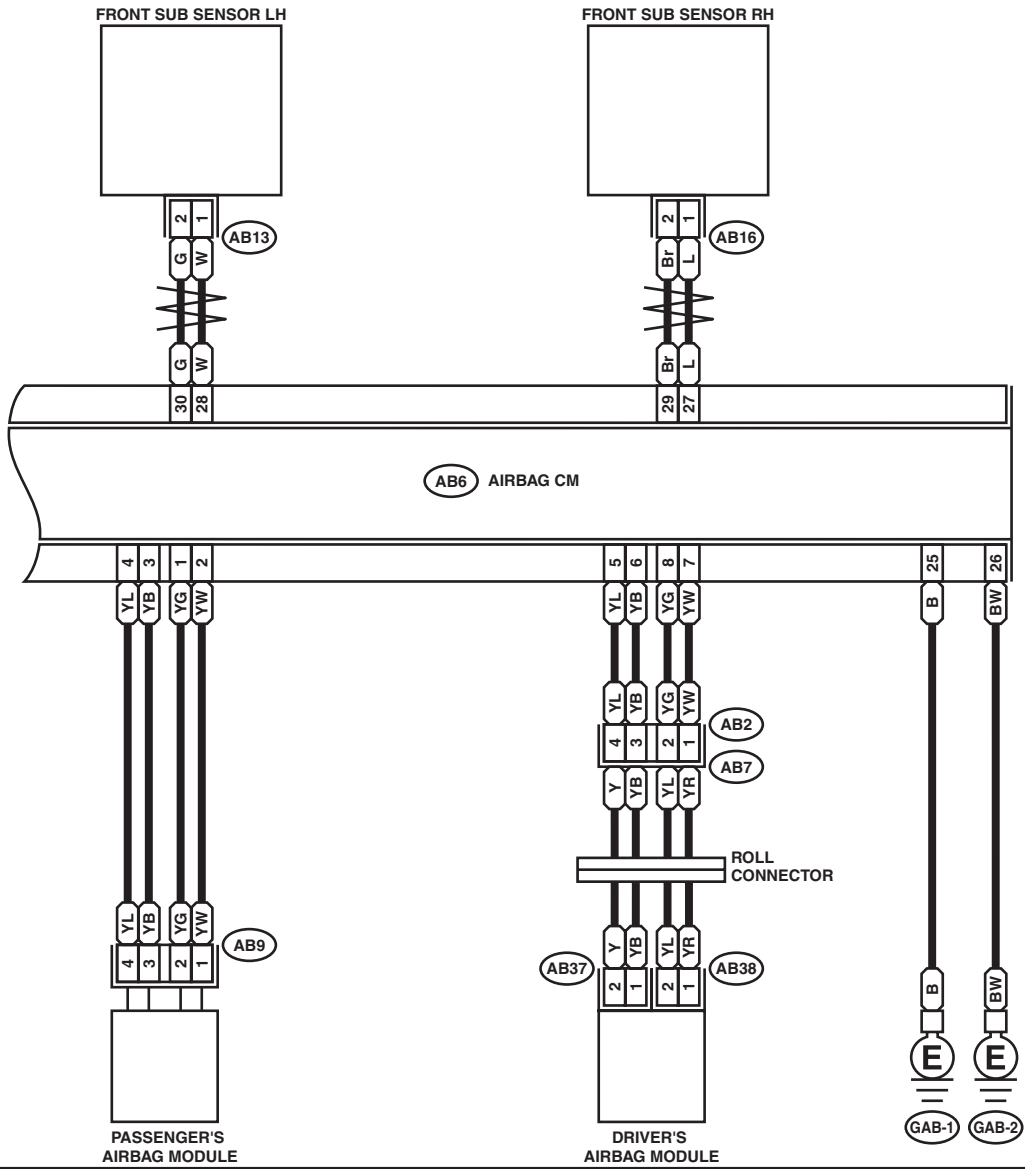


Airbag System

WIRING SYSTEM

A/B-02

A/B-02



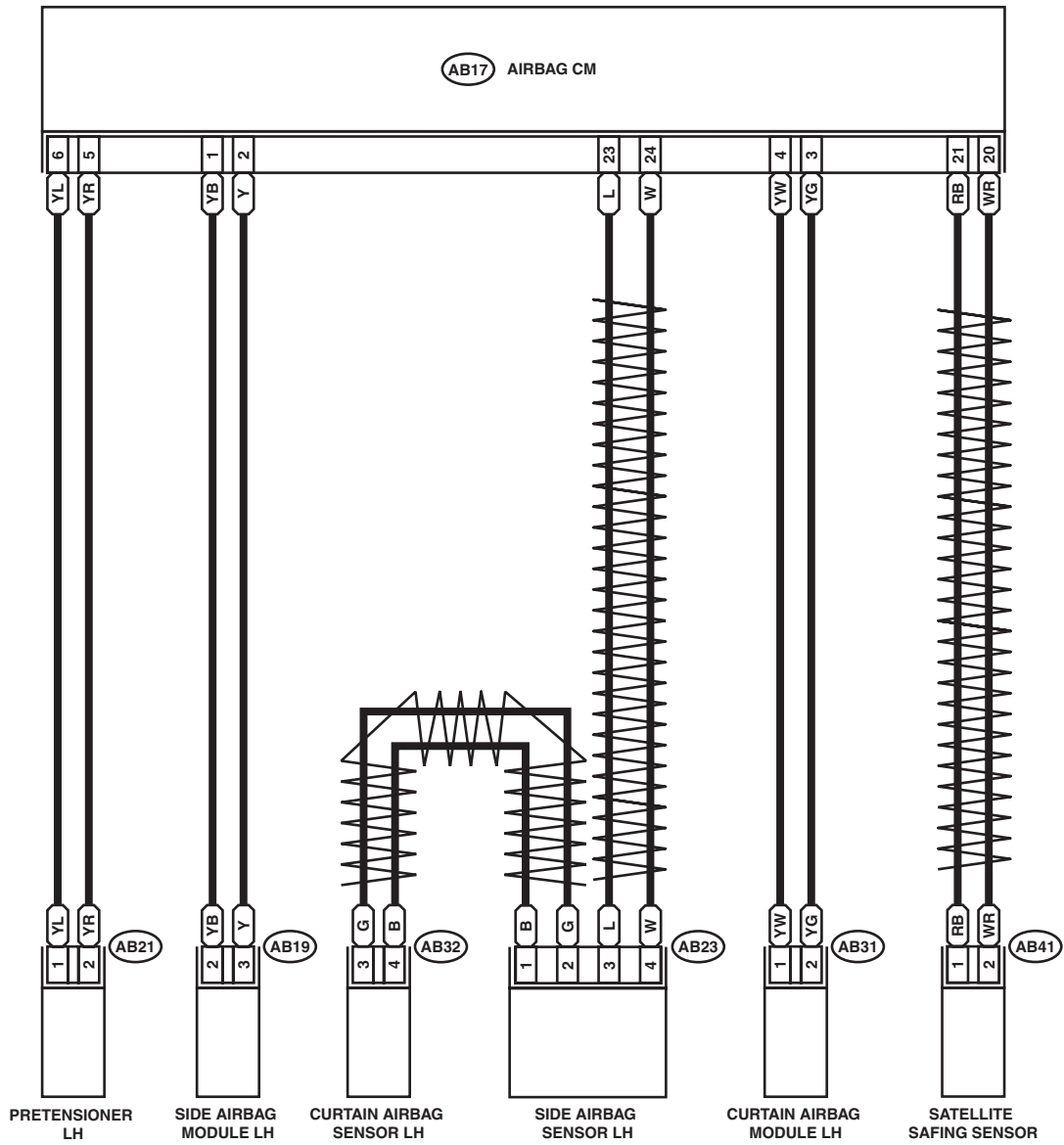
WI-27918

Airbag System

WIRING SYSTEM

A/B-03

A/B-03

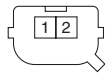


AB21 (BLACK)

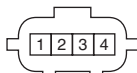
AB31 (BLACK)



AB41 (YELLOW)

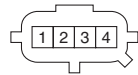


AB19 (YELLOW)

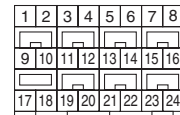


AB23 (YELLOW)

AB32 (YELLOW)



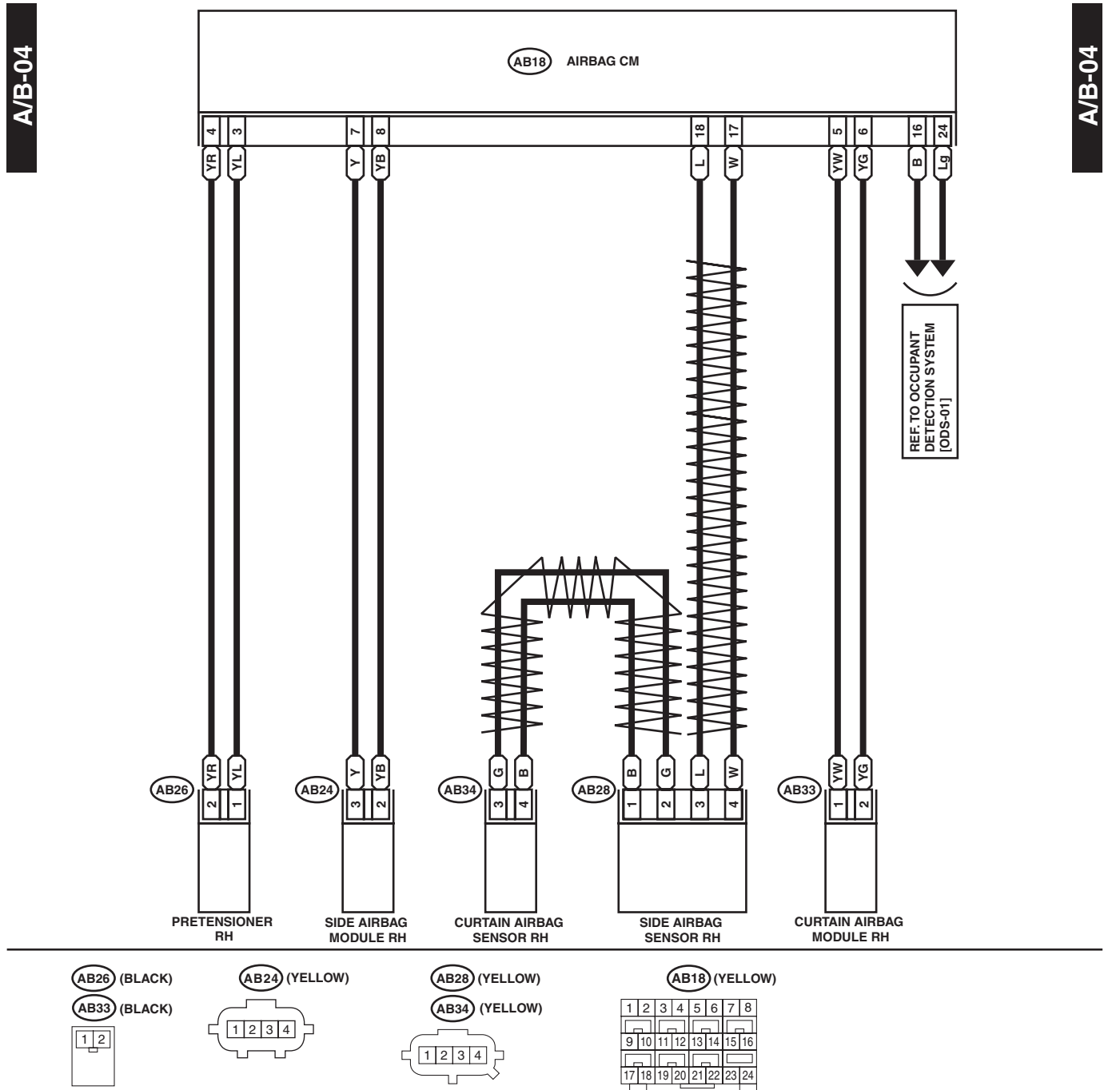
AB17 (YELLOW)



WI-27919

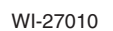
Airbag System

WIRING SYSTEM



WI-27920

A: WIRING DIAGRAM

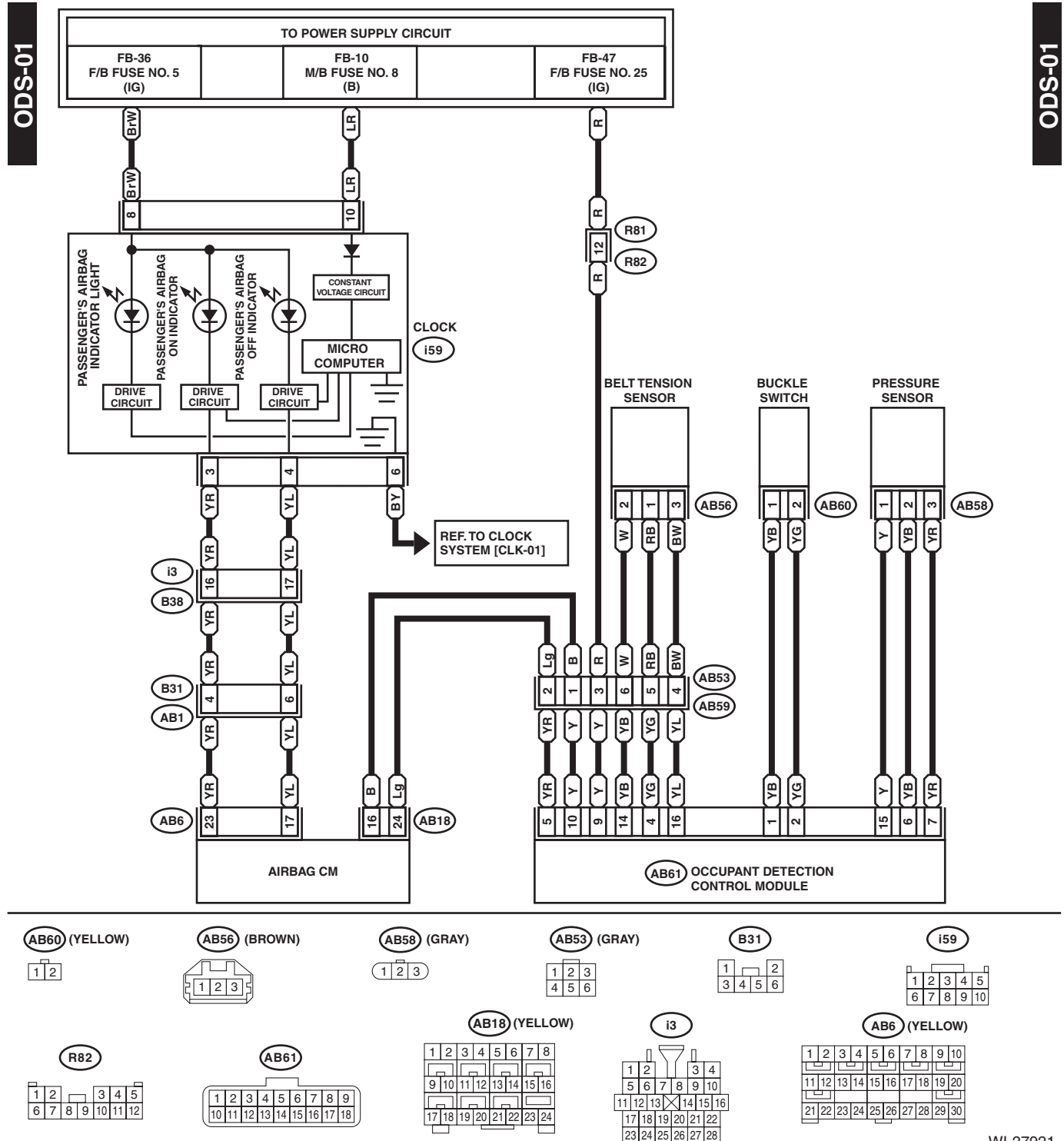


Occupant Detection System

WIRING SYSTEM

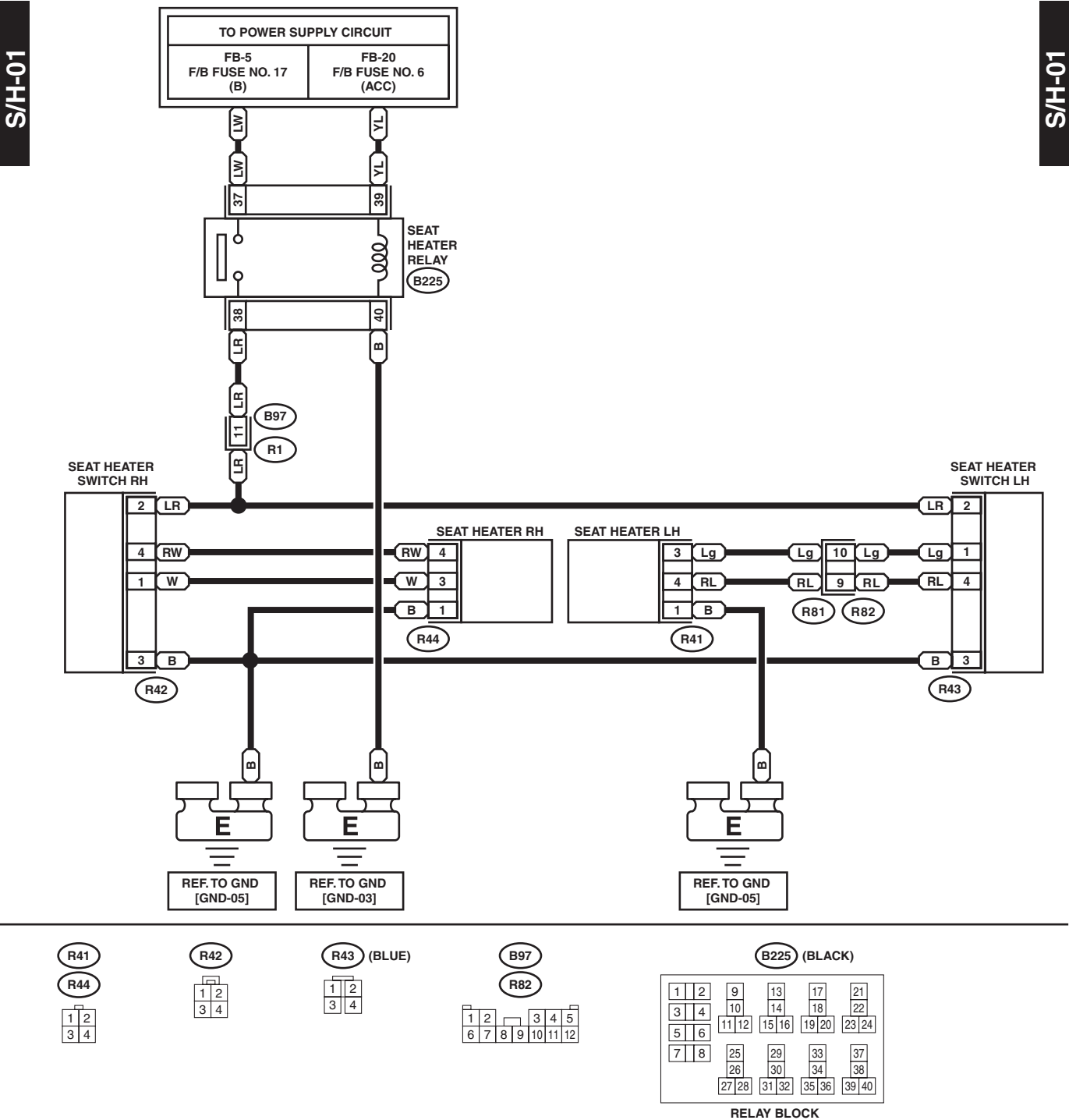
17. Occupant Detection System

A: WIRING DIAGRAM



18.Seat Heater System

A: WIRING DIAGRAM



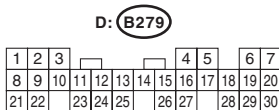
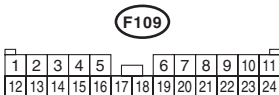
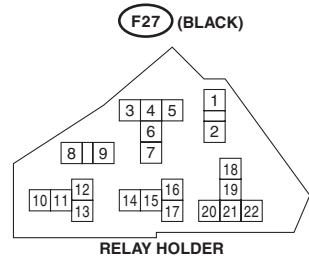
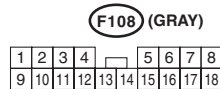
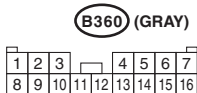
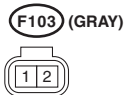
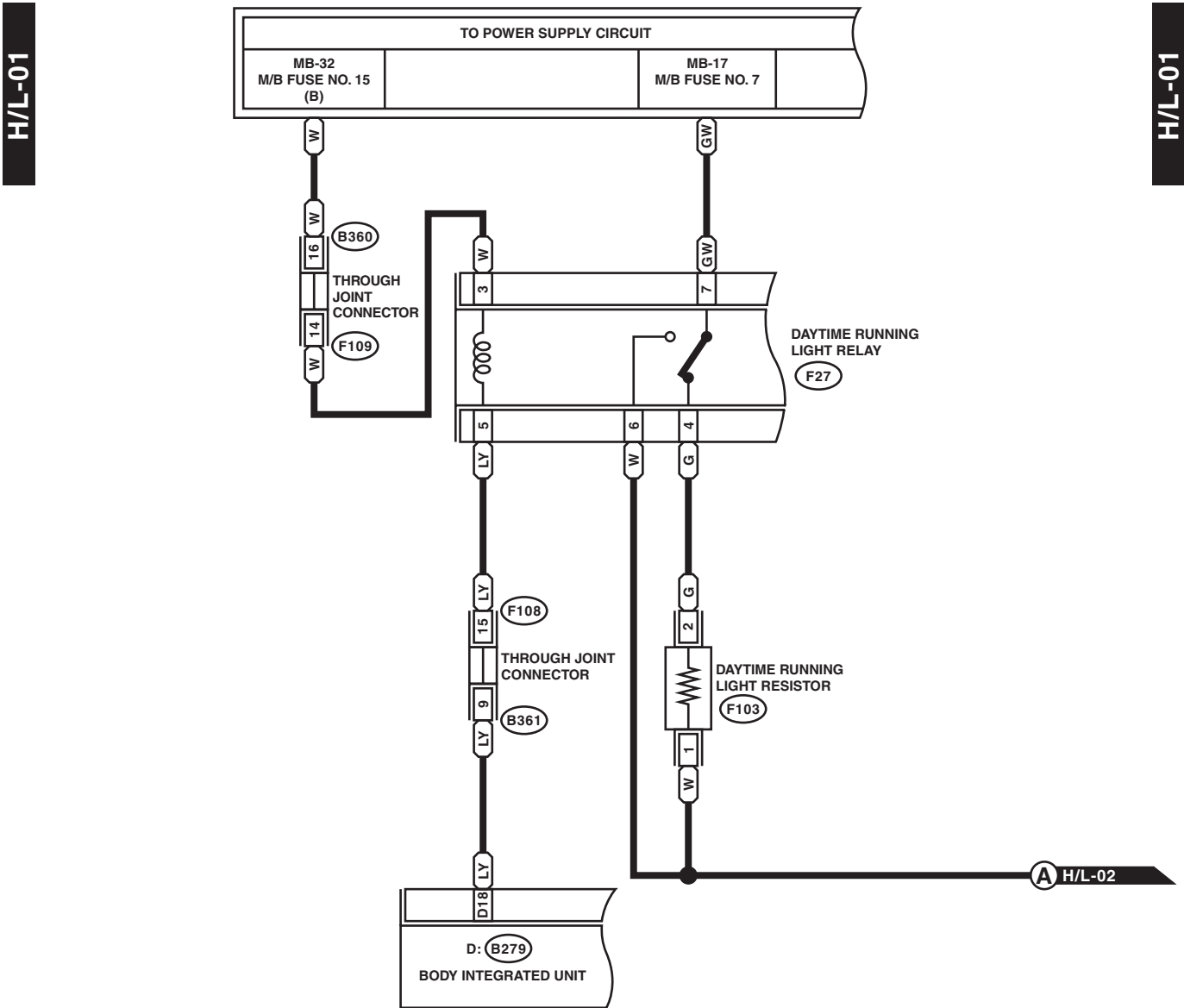
WI-27011

Headlight System

WIRING SYSTEM

19.Headlight System

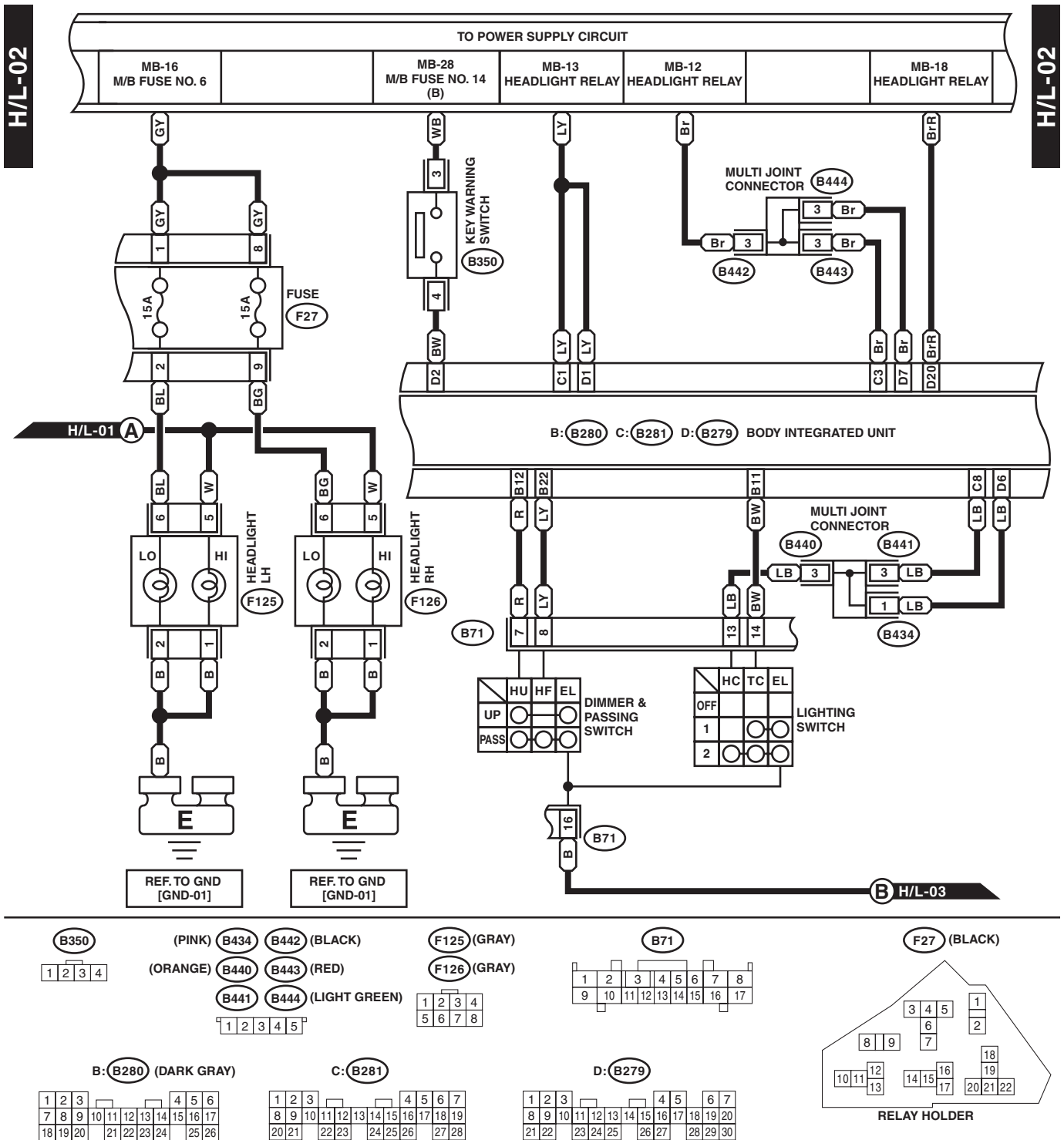
A: WIRING DIAGRAM



WI-21431

Headlight System

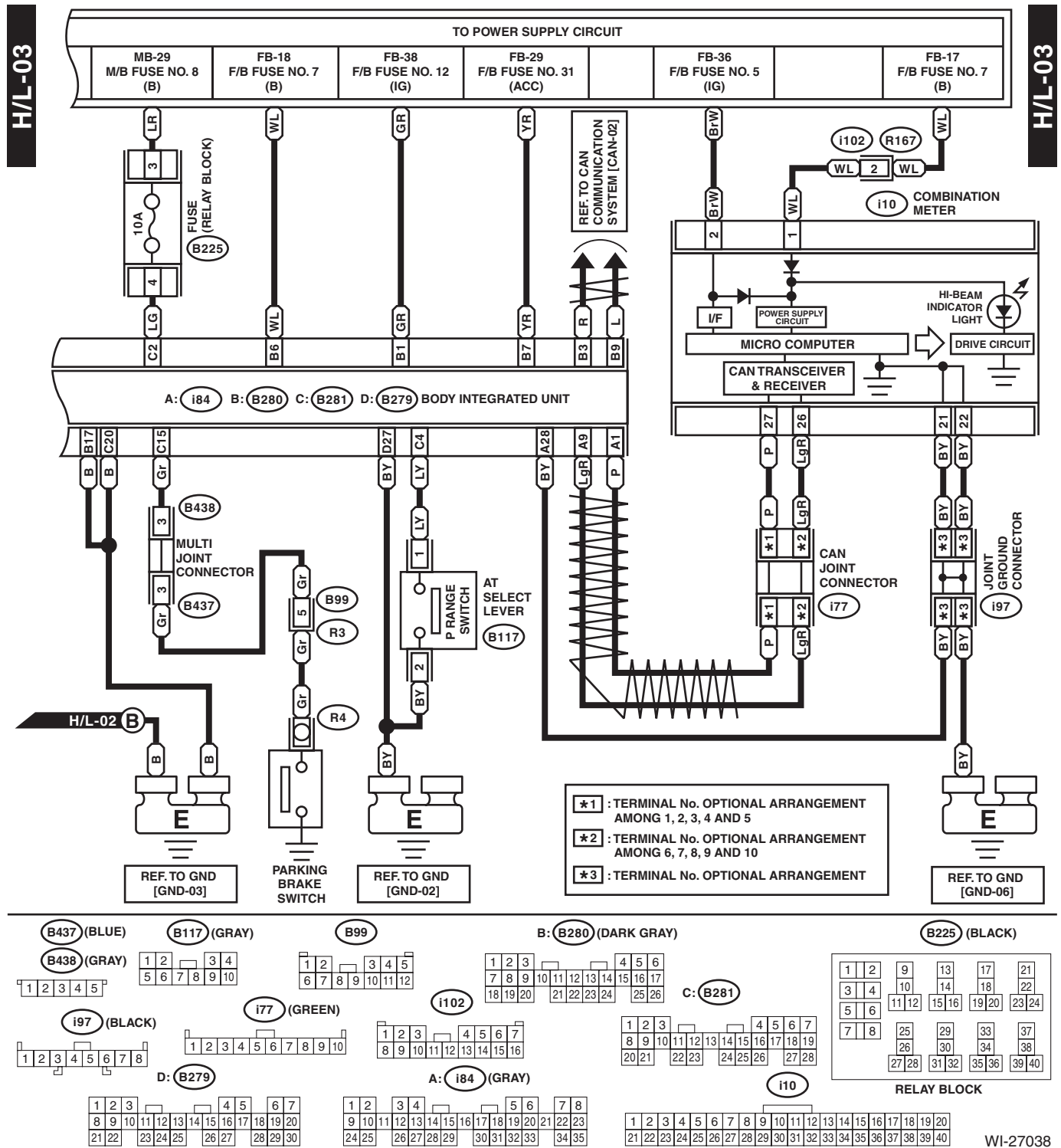
WIRING SYSTEM



WI-27922

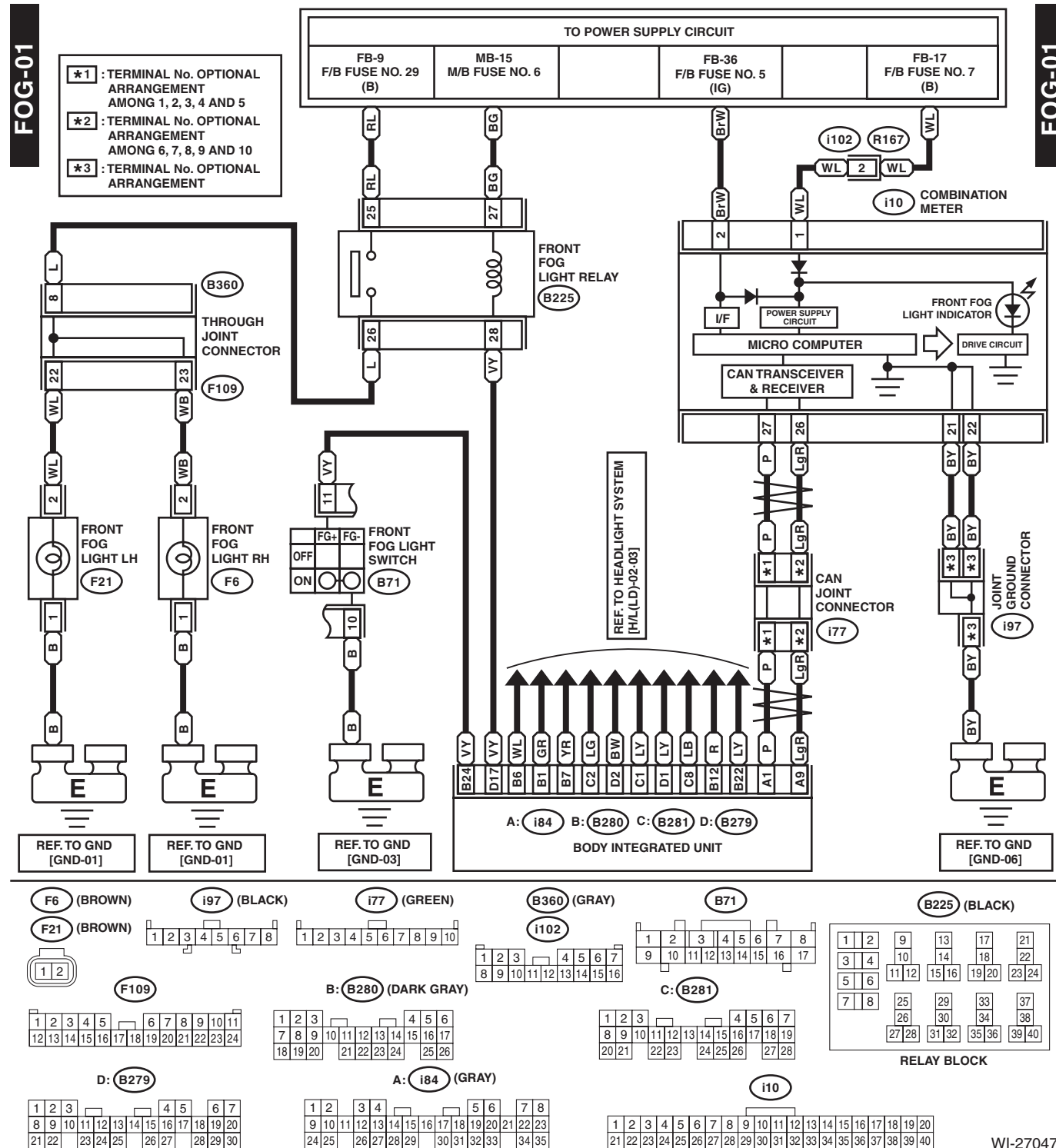
Headlight System

WIRING SYSTEM



20.Front Fog Light System

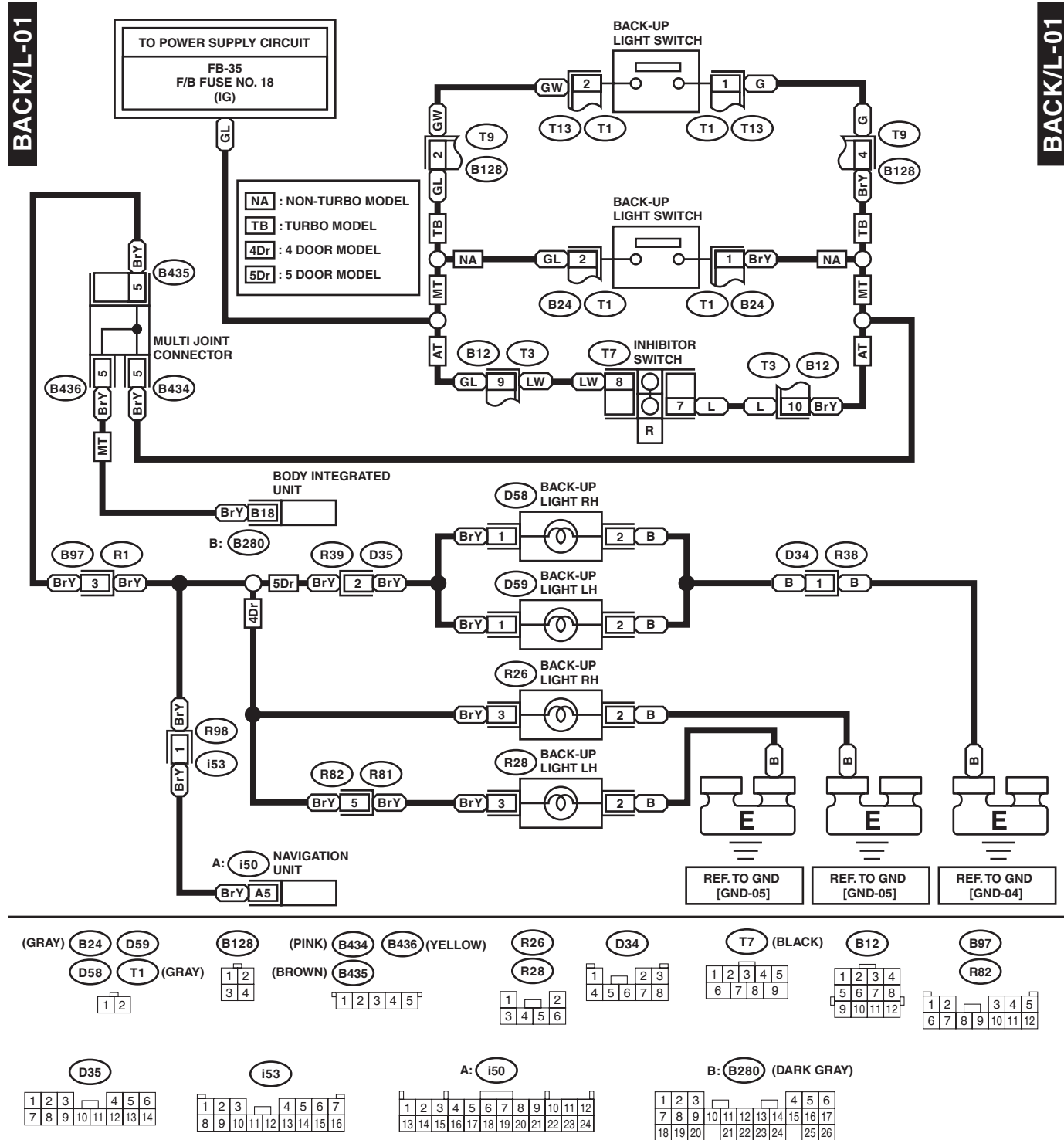
A: WIRING DIAGRAM



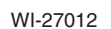
WIRING SYSTEM

21.Back-up Light System

A: WIRING DIAGRAM



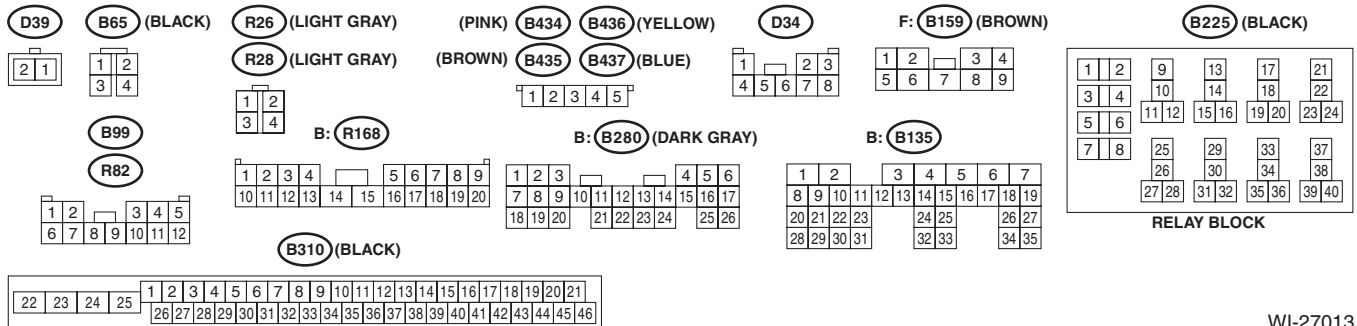
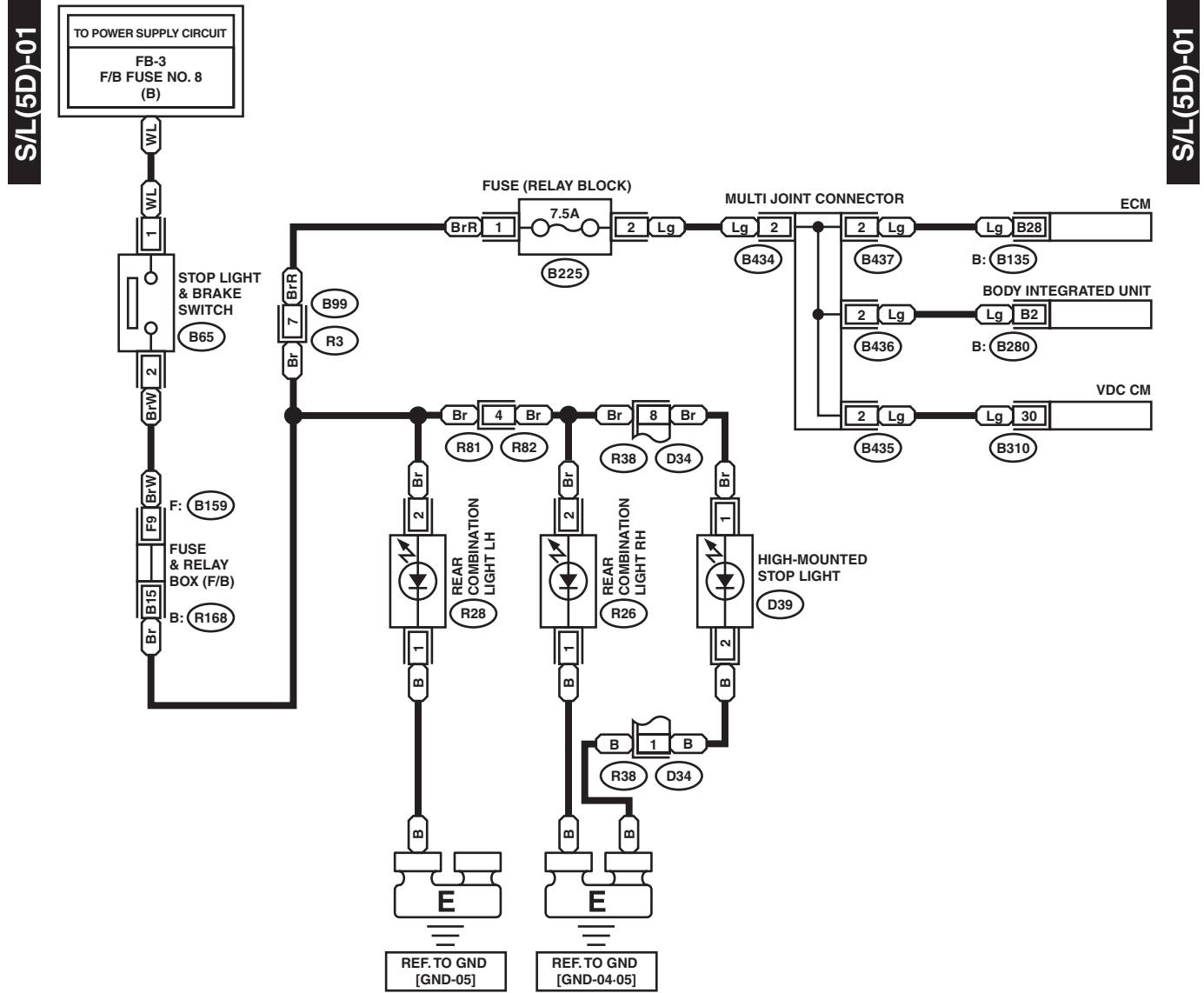
1. 4 DOOR MODEL



Stop Light System

WIRING SYSTEM

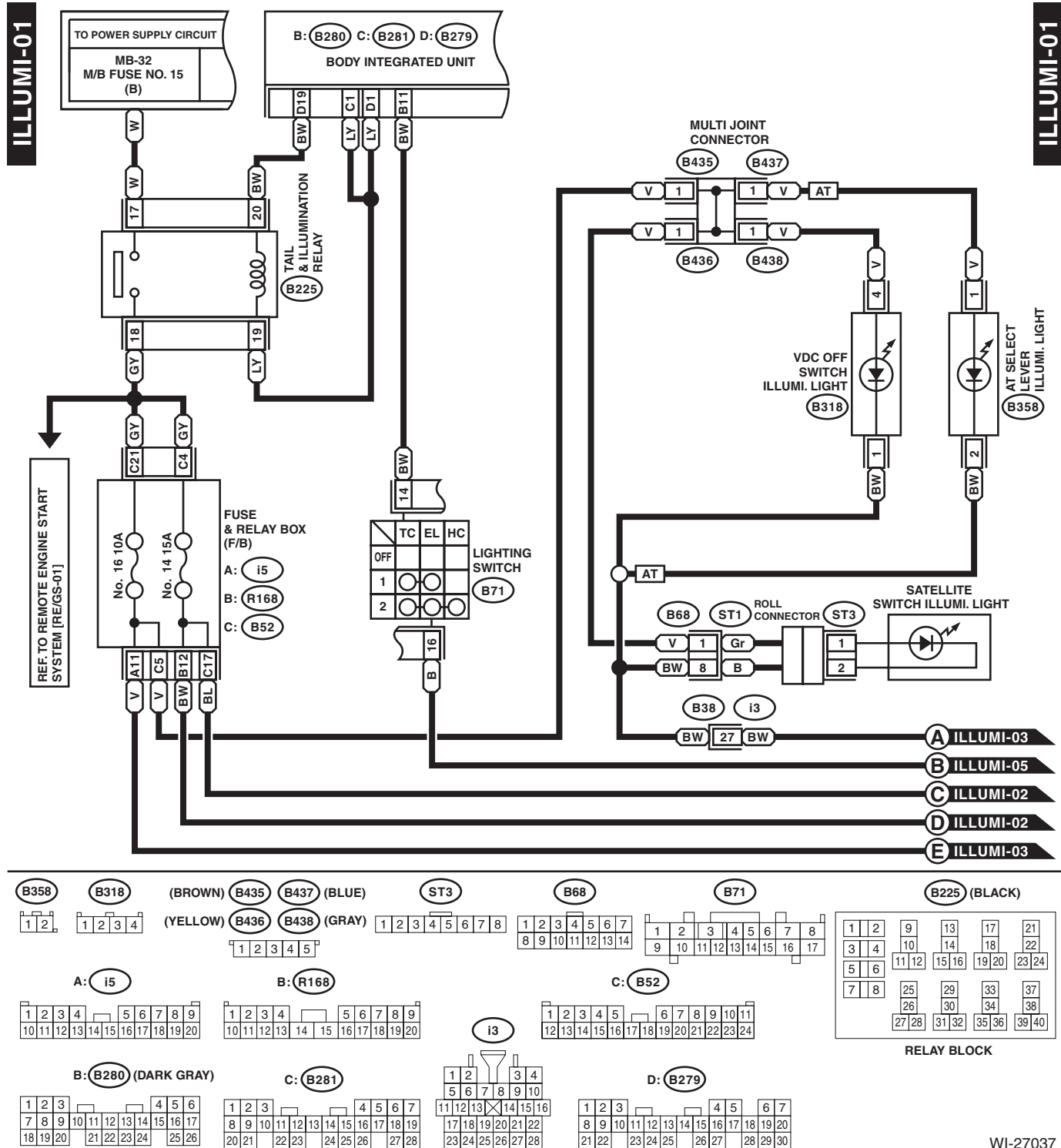
2. 5 DOOR MODEL



WI-27013

23. Clearance Light and Illumination Light System

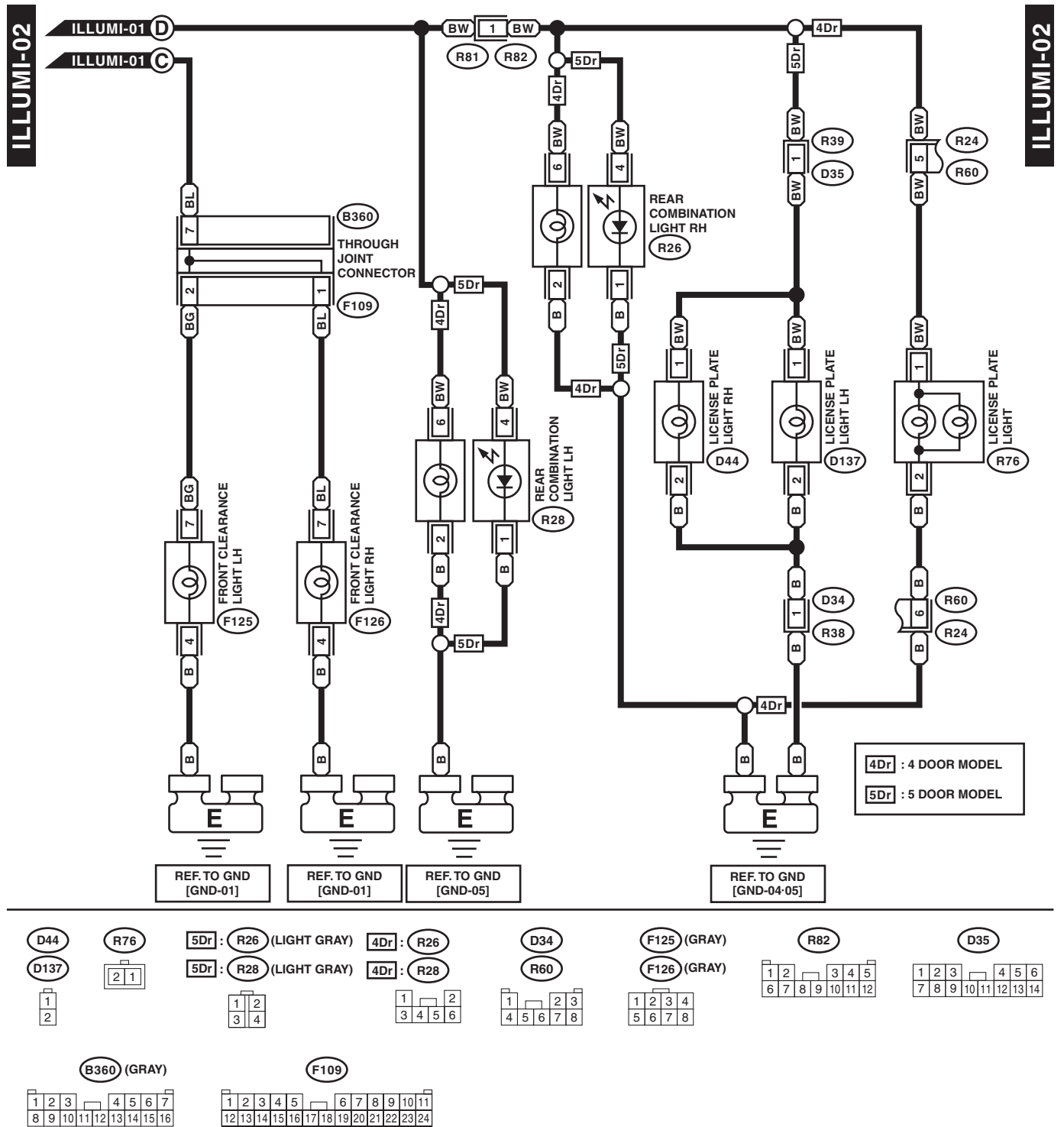
A: WIRING DIAGRAM



WI-27037

Clearance Light and Illumination Light System

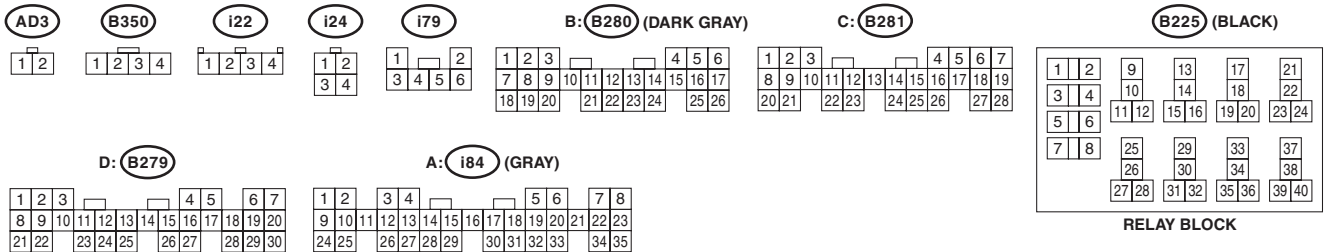
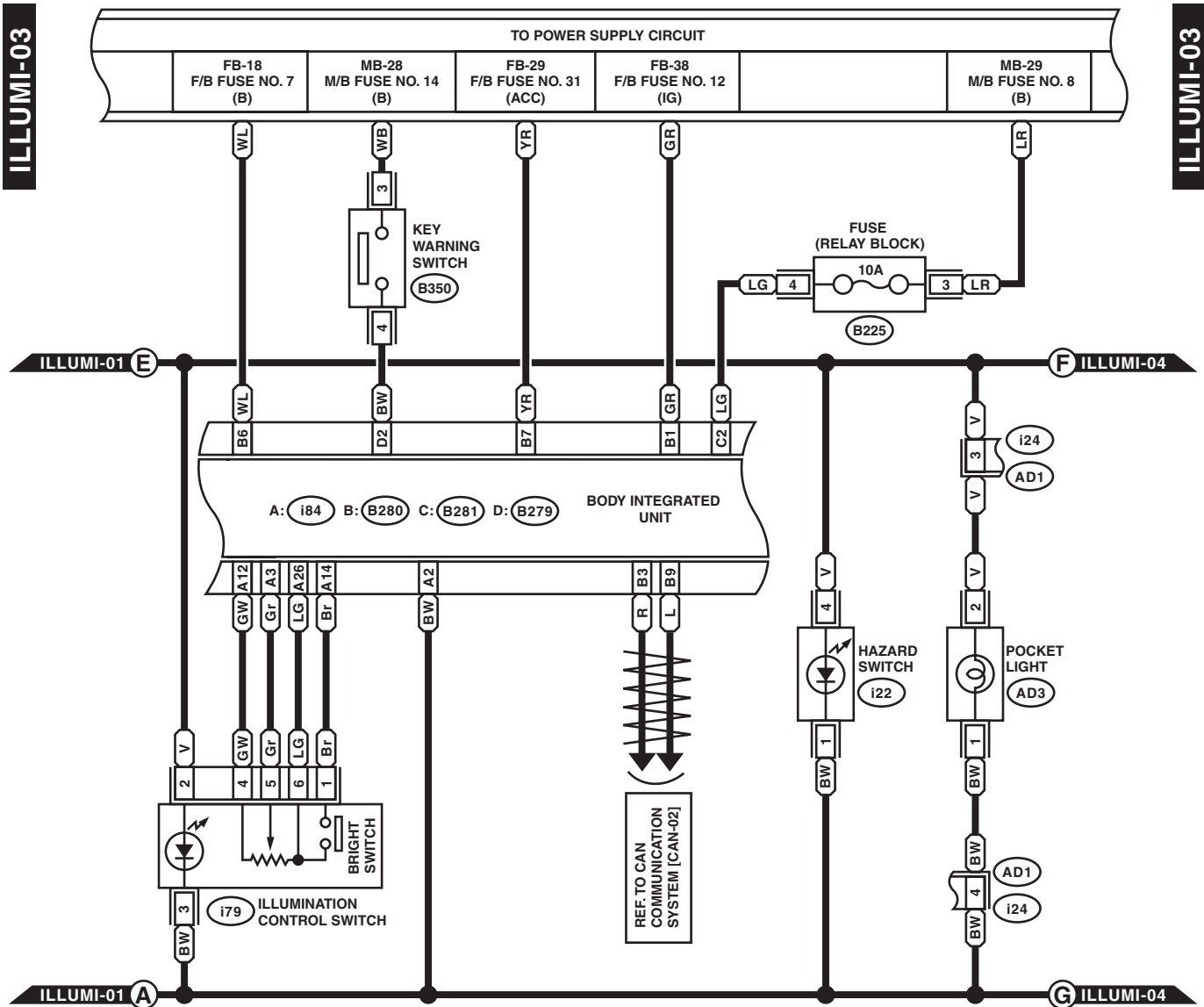
WIRING SYSTEM



WI-21437

Clearance Light and Illumination Light System

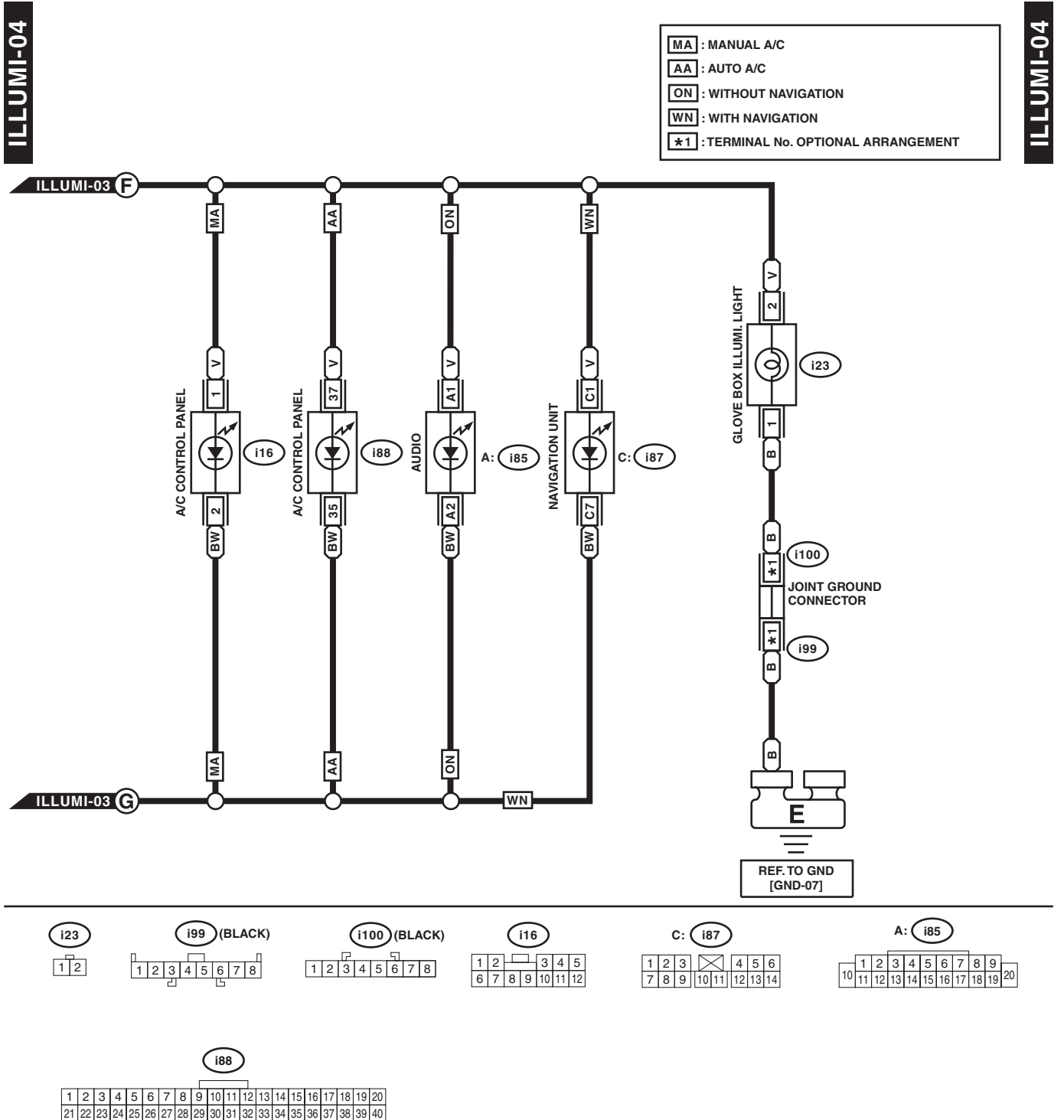
WIRING SYSTEM



WI-27014

Clearance Light and Illumination Light System

WIRING SYSTEM



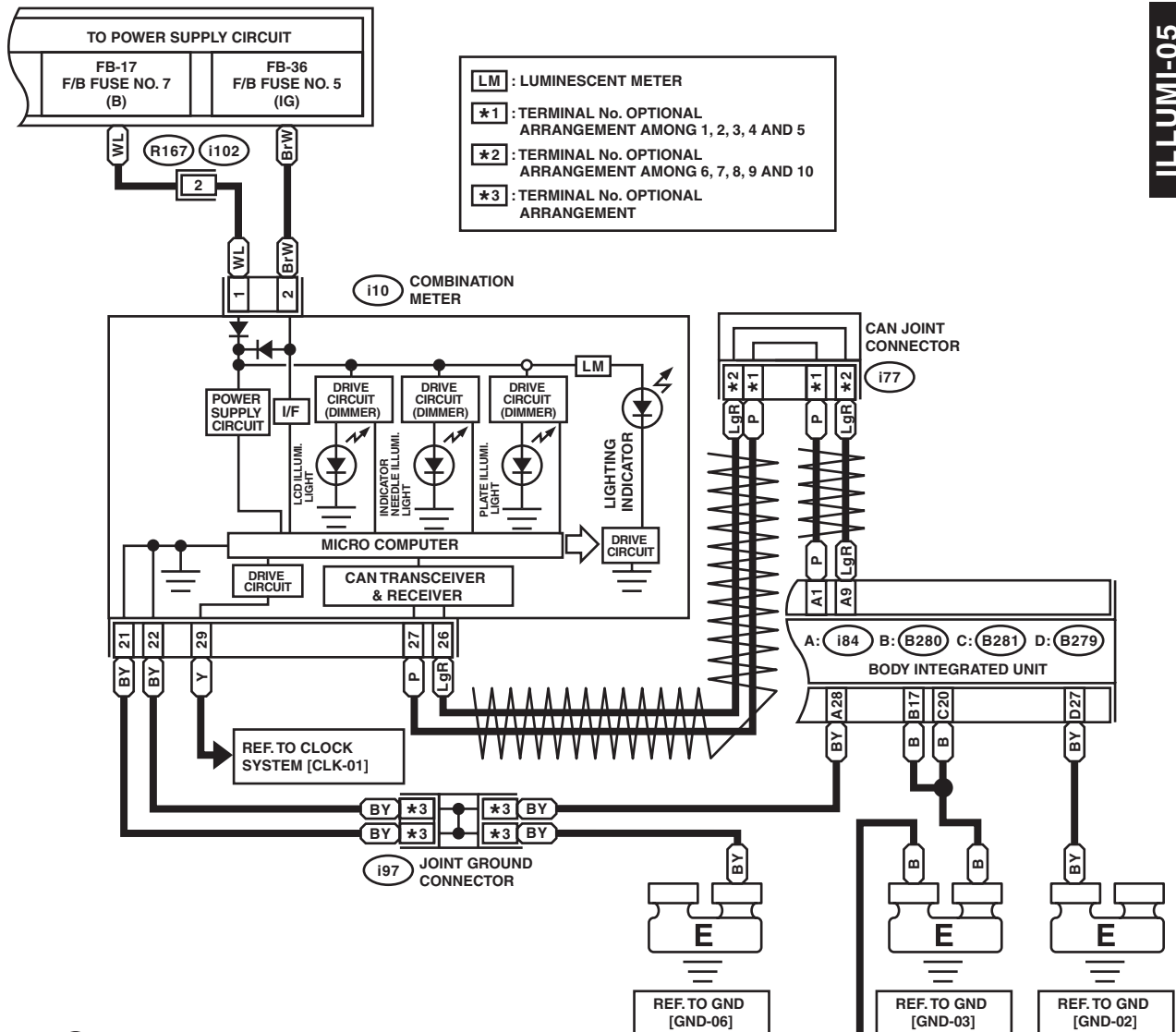
WI-25257

Clearance Light and Illumination Light System

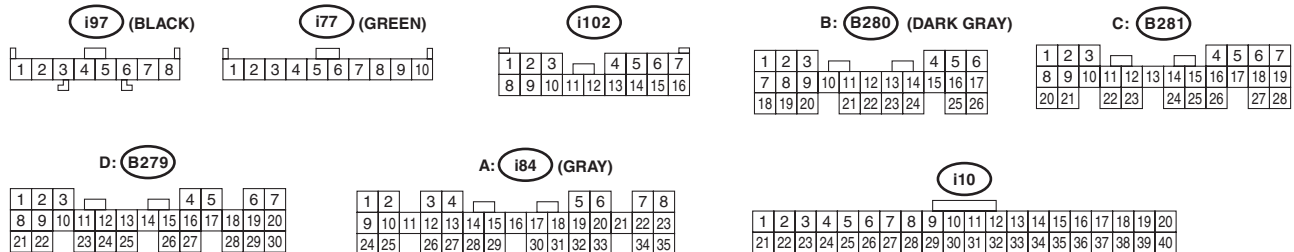
WIRING SYSTEM

ILLUMI-05

ILLUMI-05



ILLUMI-01 B



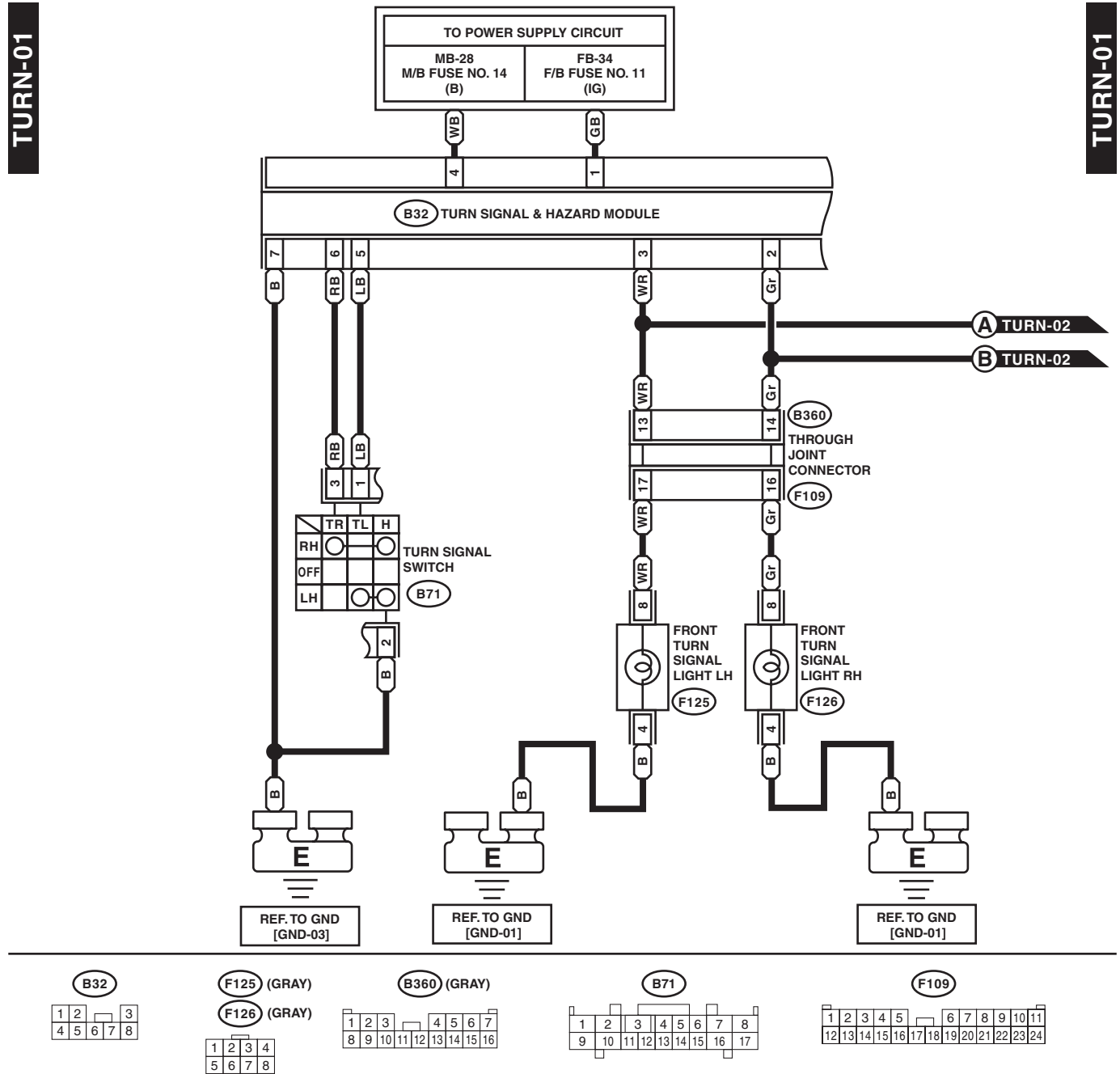
WI-27924

Turn Signal Light and Hazard Light System

WIRING SYSTEM

24. Turn Signal Light and Hazard Light System

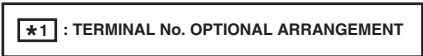
A: WIRING DIAGRAM



WI-21441

WIRING SYSTEM

TURN-02

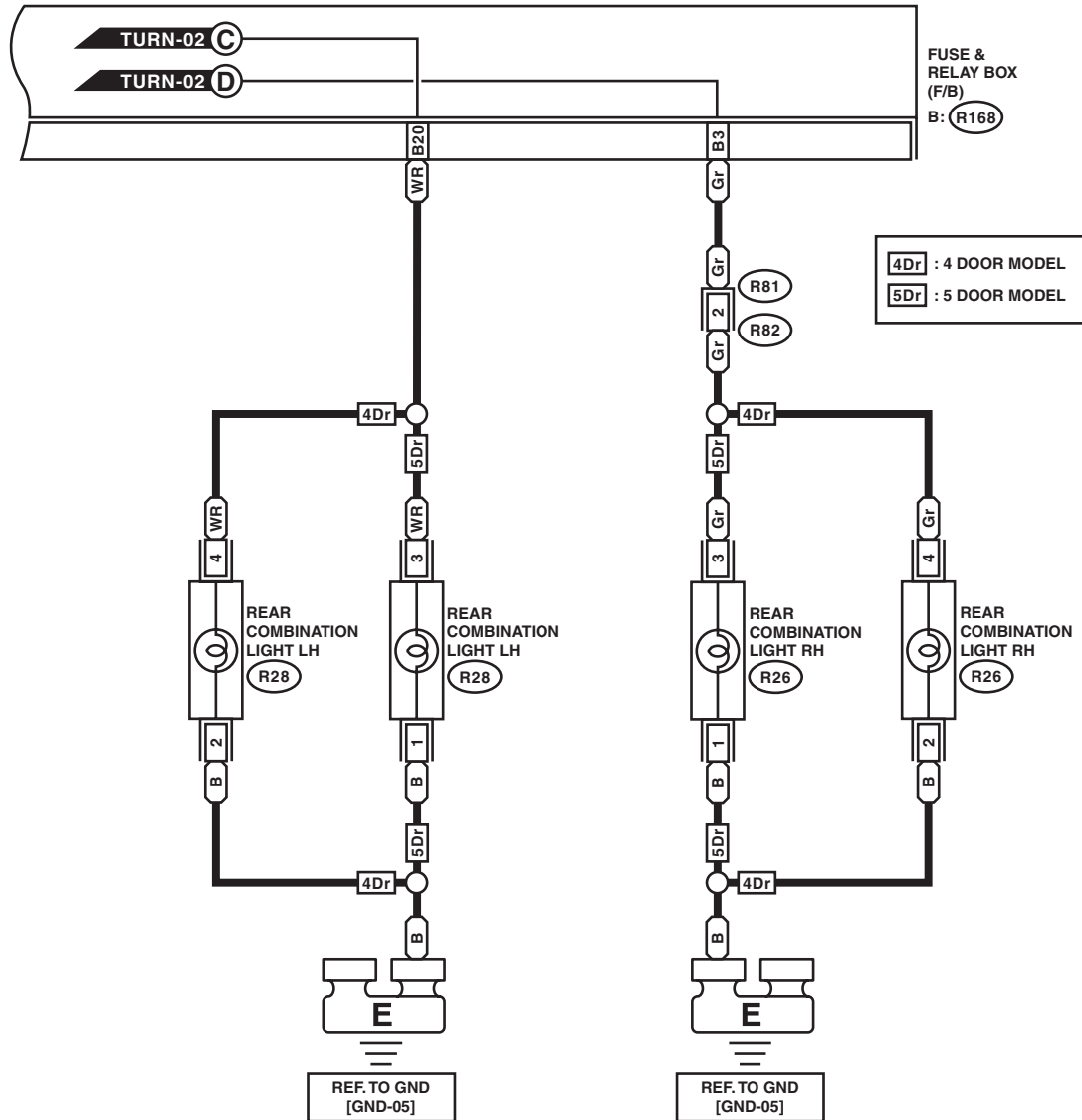


Turn Signal Light and Hazard Light System

WIRING SYSTEM

TURN-03

TURN-03



5Dr : R26 (LIGHT GRAY)

5Dr : R28 (LIGHT GRAY)



4Dr : R26

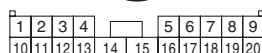
4Dr : R28



R82

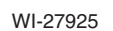


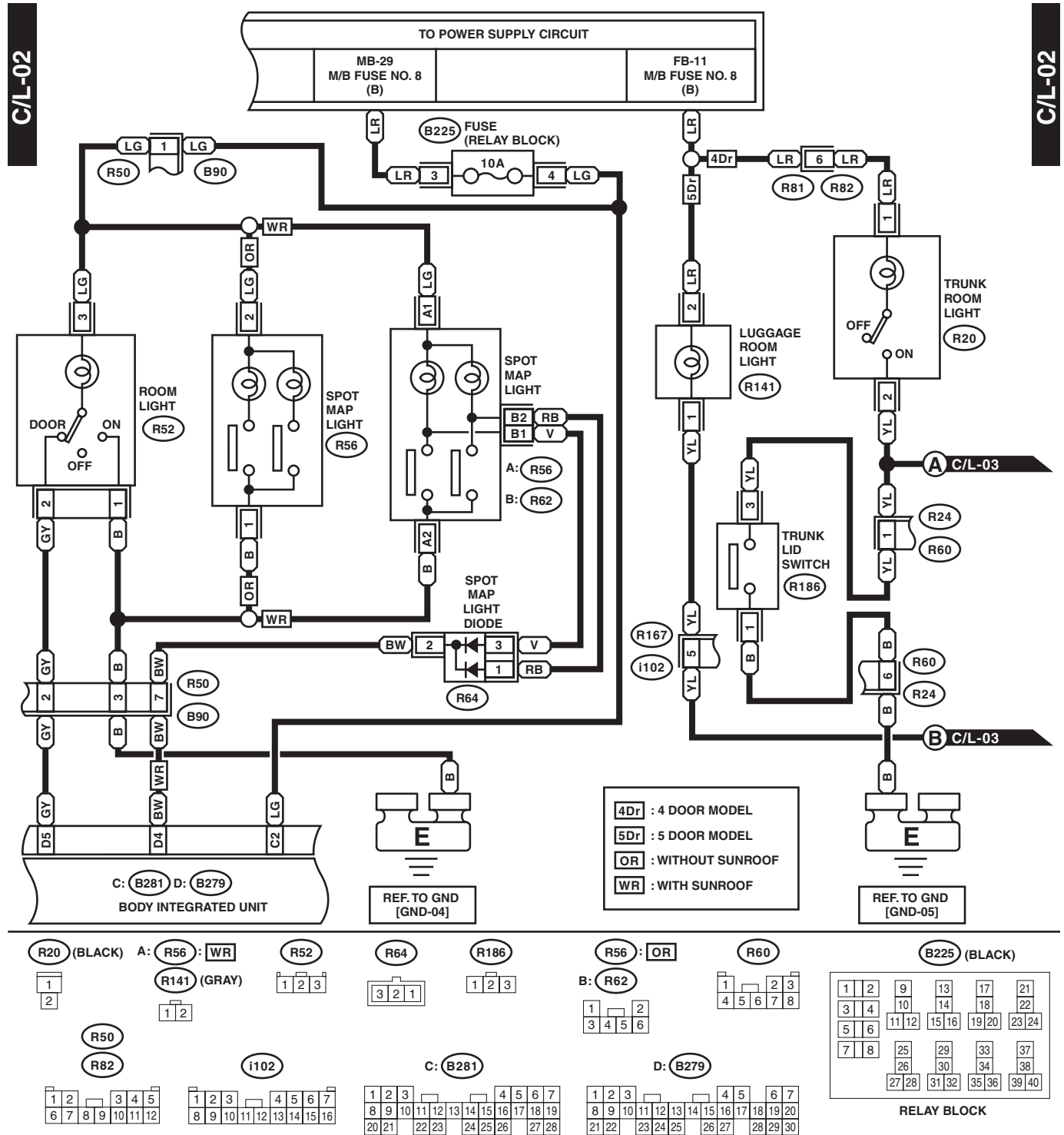
B: R168

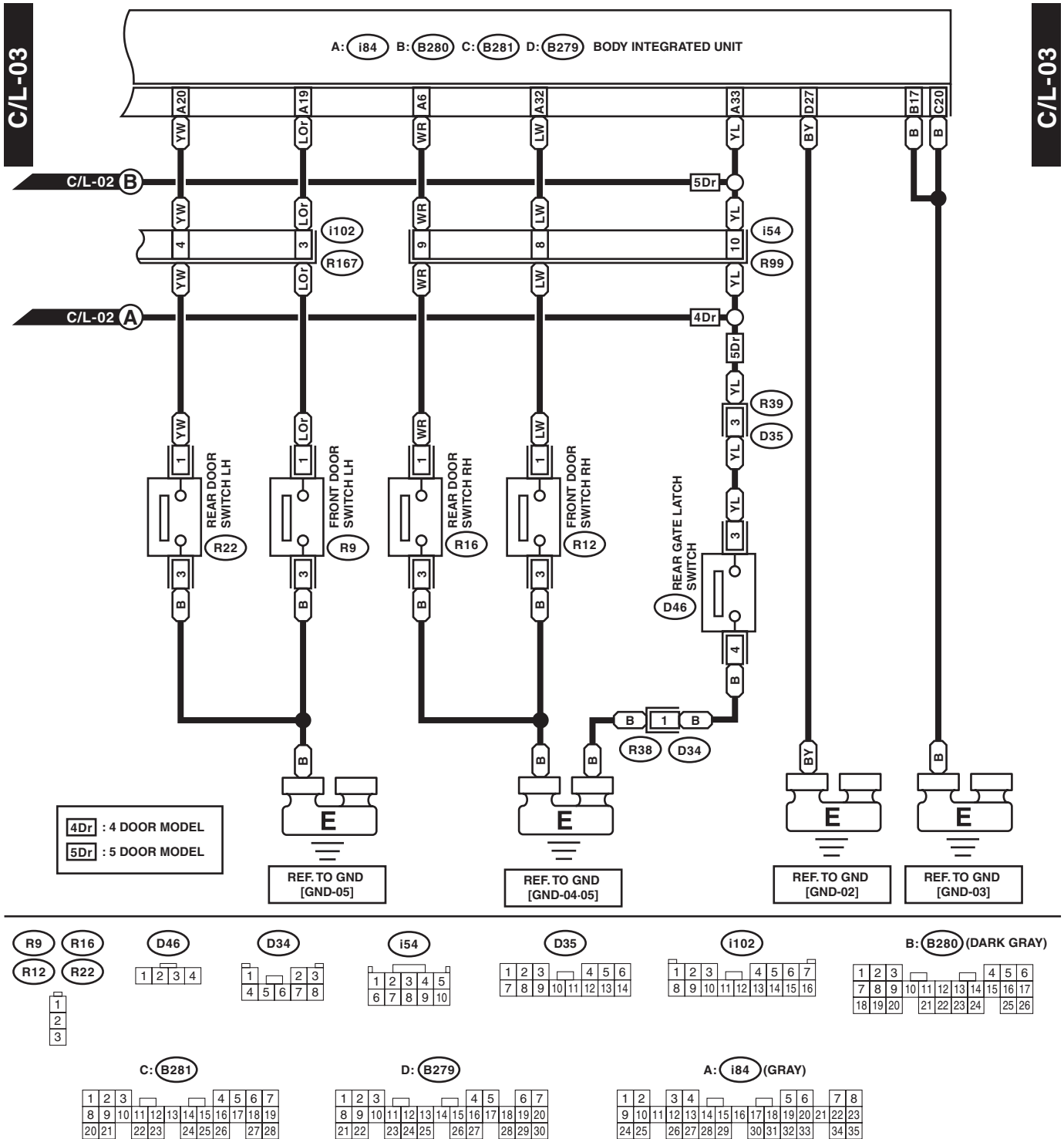


WI-22957

A: WIRING DIAGRAM





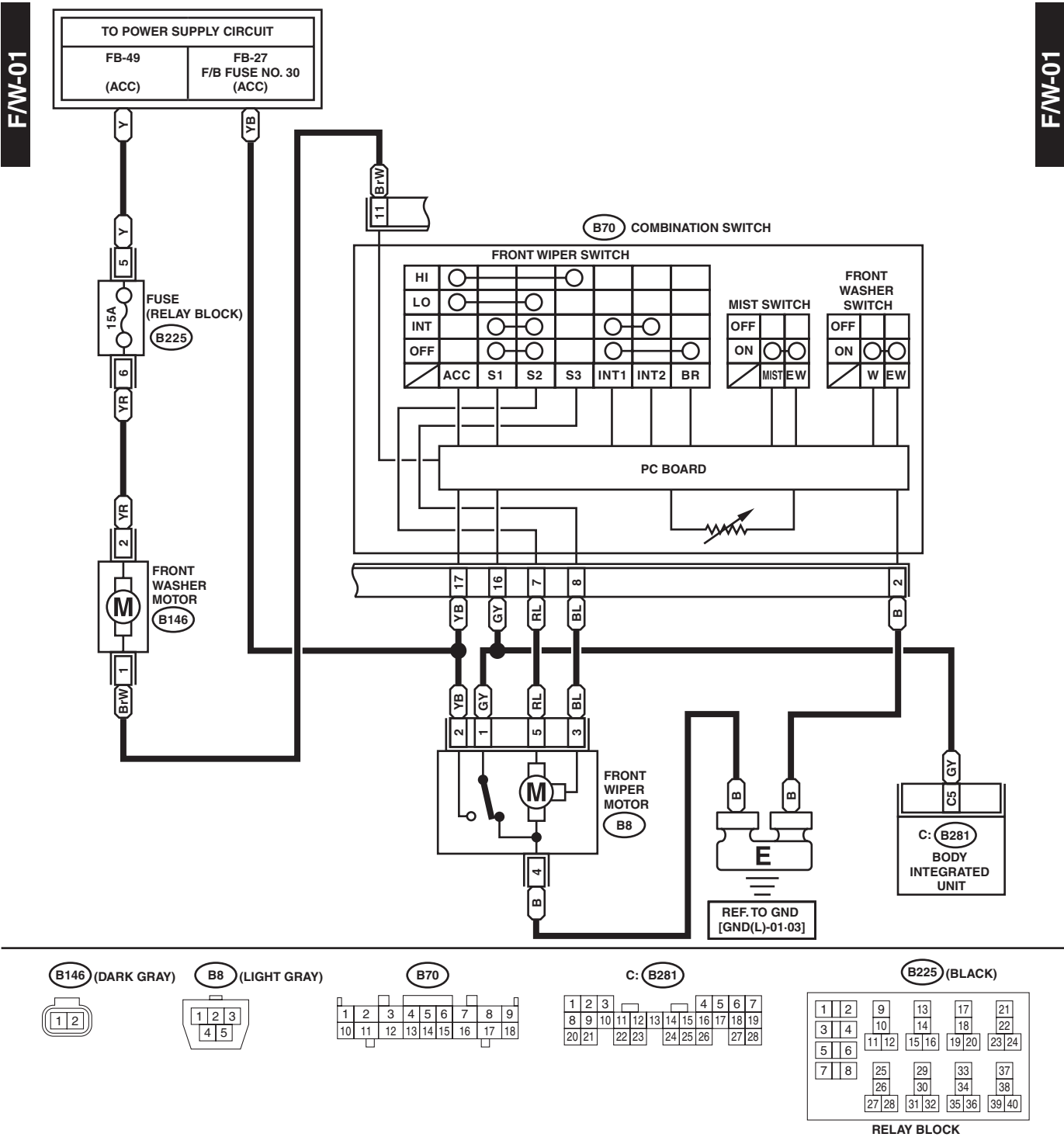


Front Wiper and Washer System

WIRING SYSTEM

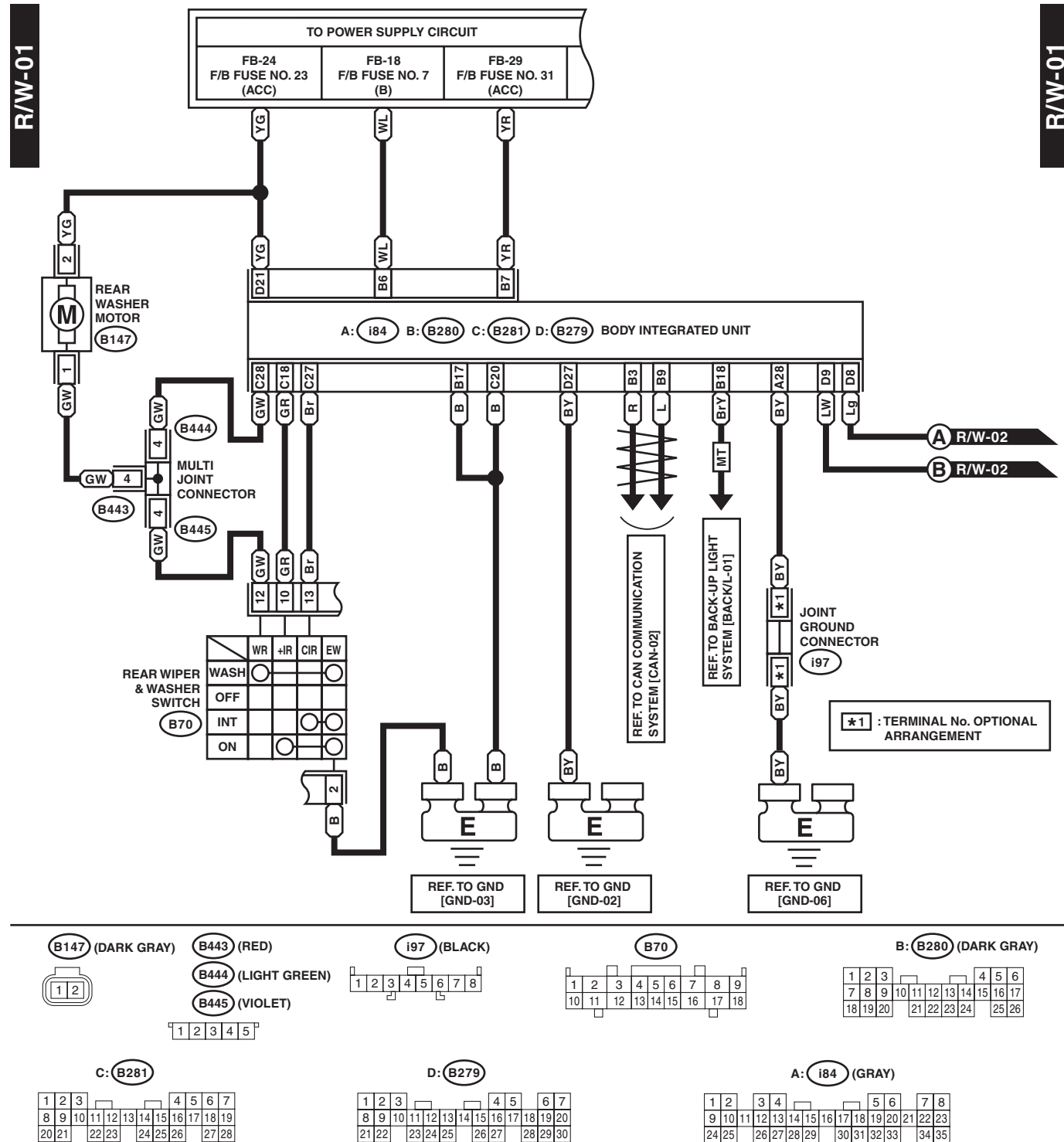
26.Front Wiper and Washer System

A: WIRING DIAGRAM



27.Rear Wiper and Washer System

A: WIRING DIAGRAM



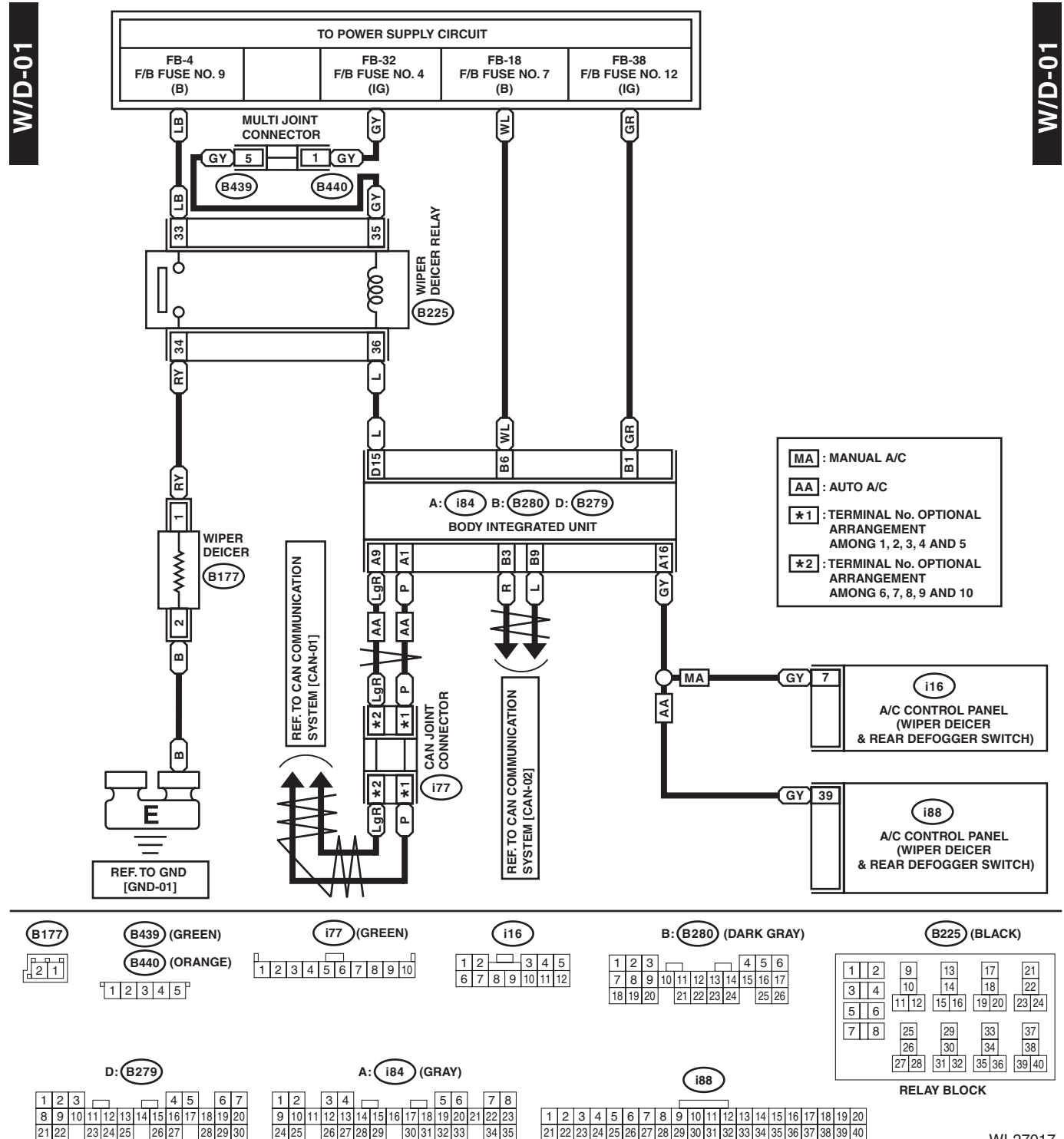
WI-27016

WIRING SYSTEM



28.Wiper Deicer System

A: WIRING DIAGRAM



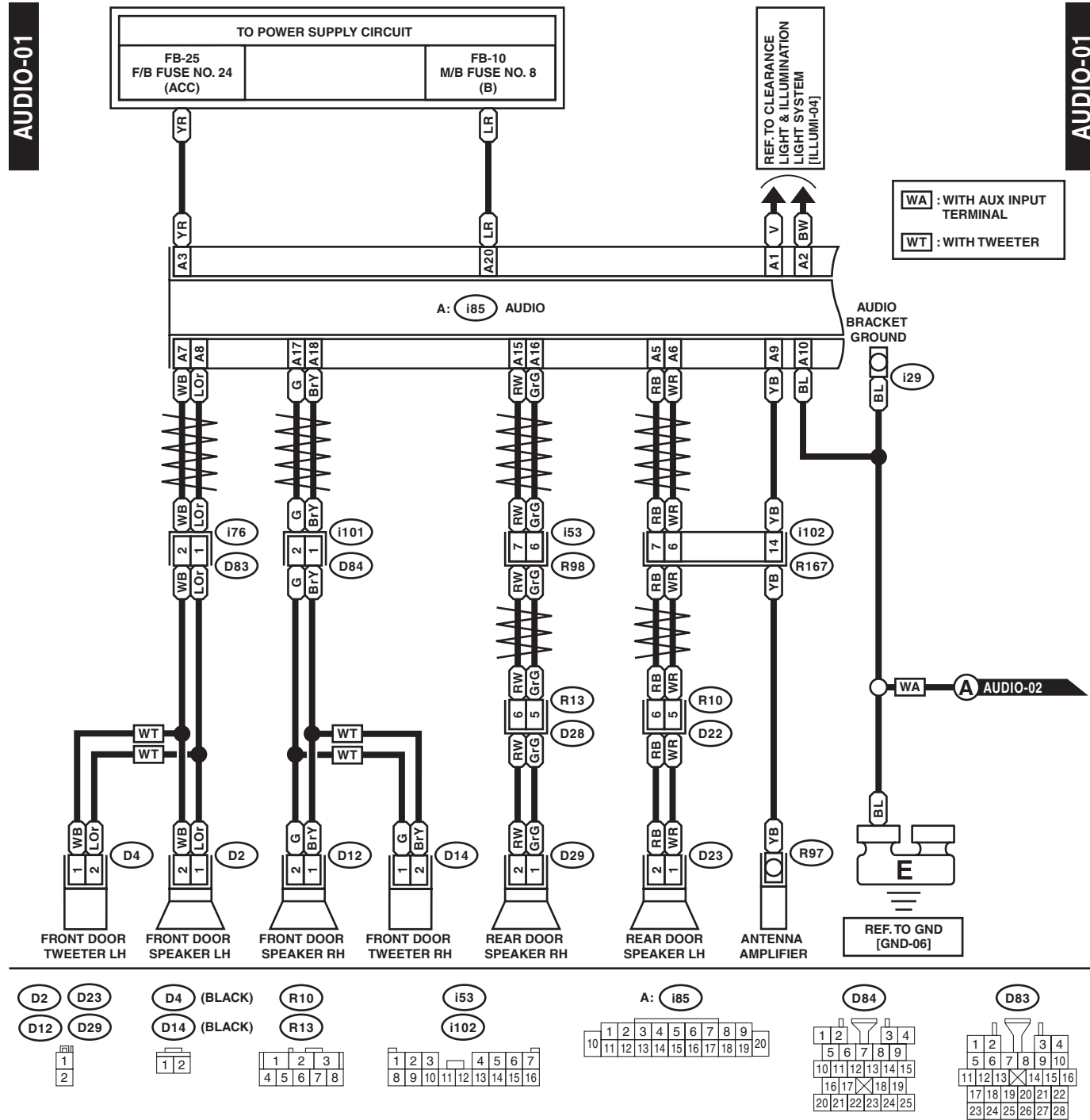
WI-27017

Audio System

WIRING SYSTEM

29.Audio System

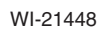
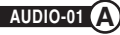
A: WIRING DIAGRAM



WI-21447

WIRING SYSTEM

AUDIO-02

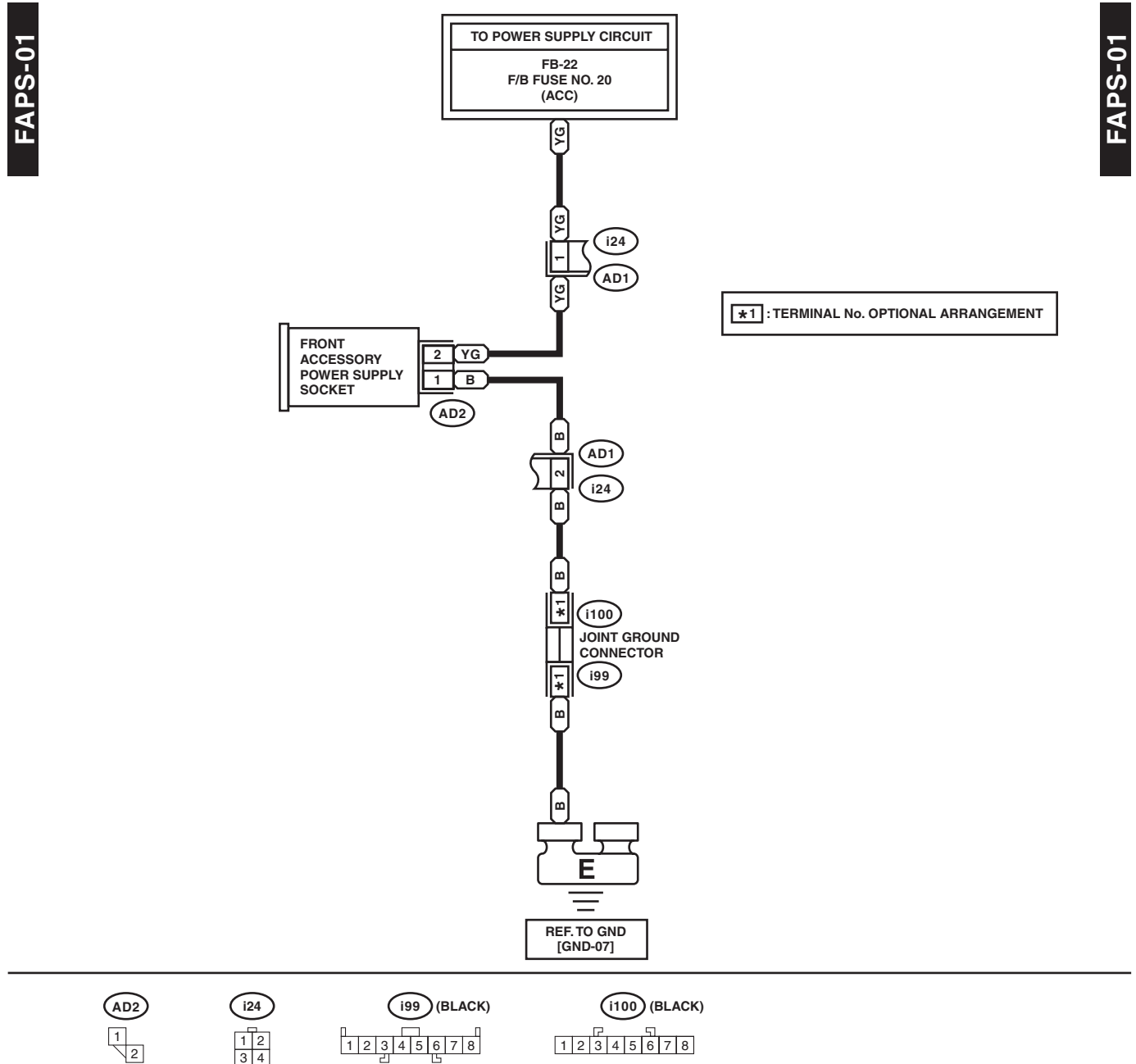


Front Accessory Power Supply Socket System

WIRING SYSTEM

30.Front Accessory Power Supply Socket System

A: WIRING DIAGRAM



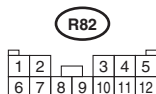
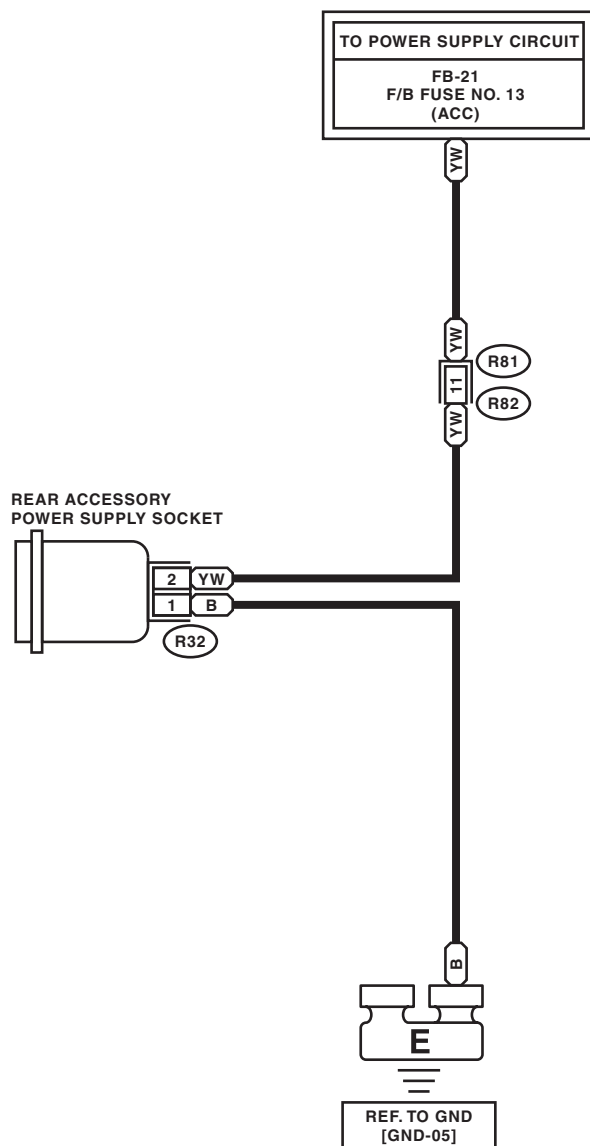
WI-22959

31.Rear Accessory Power Supply Socket System

A: WIRING DIAGRAM

RAPS-01

RAPS-01



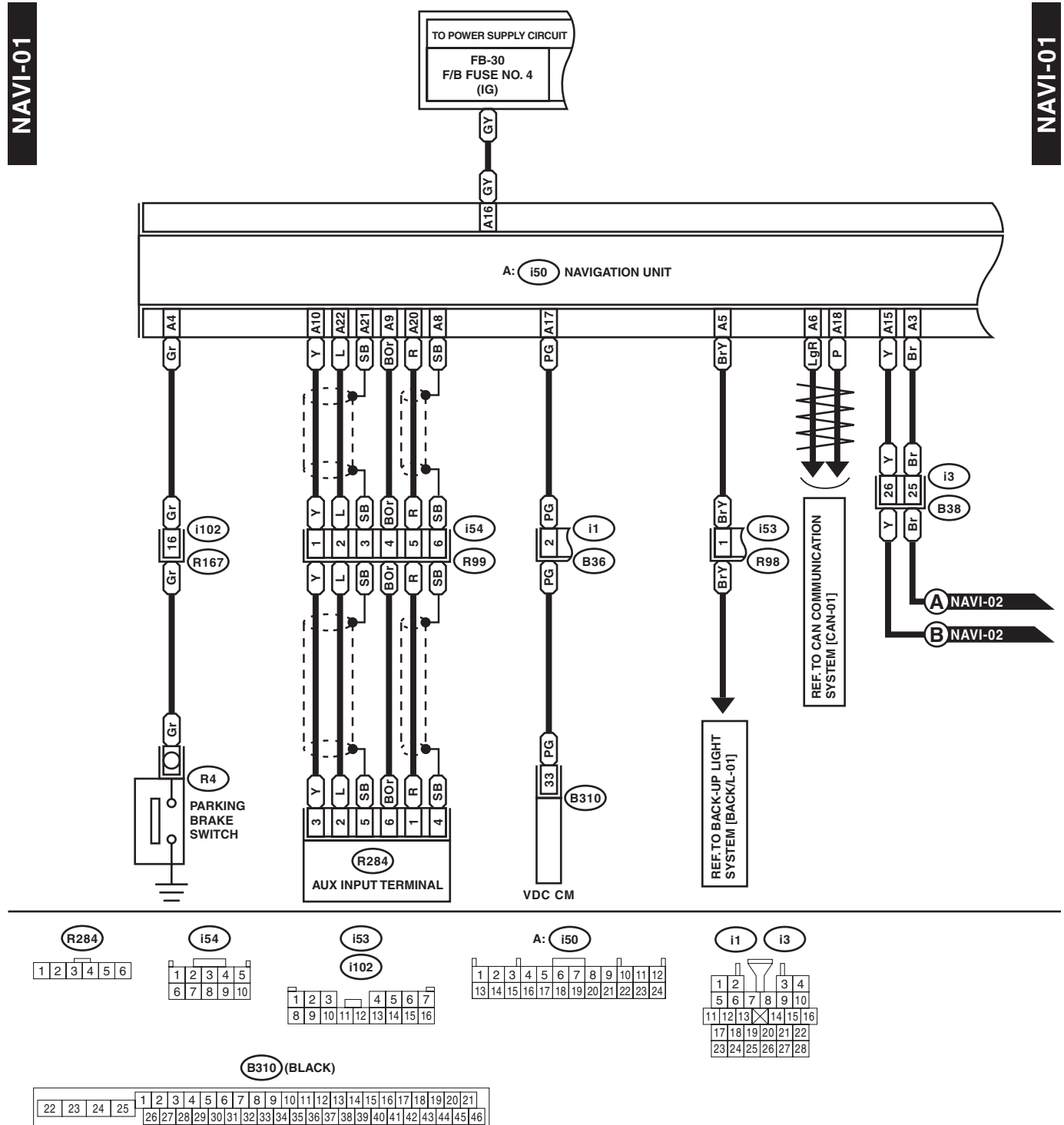
WI-16959

Navigation System

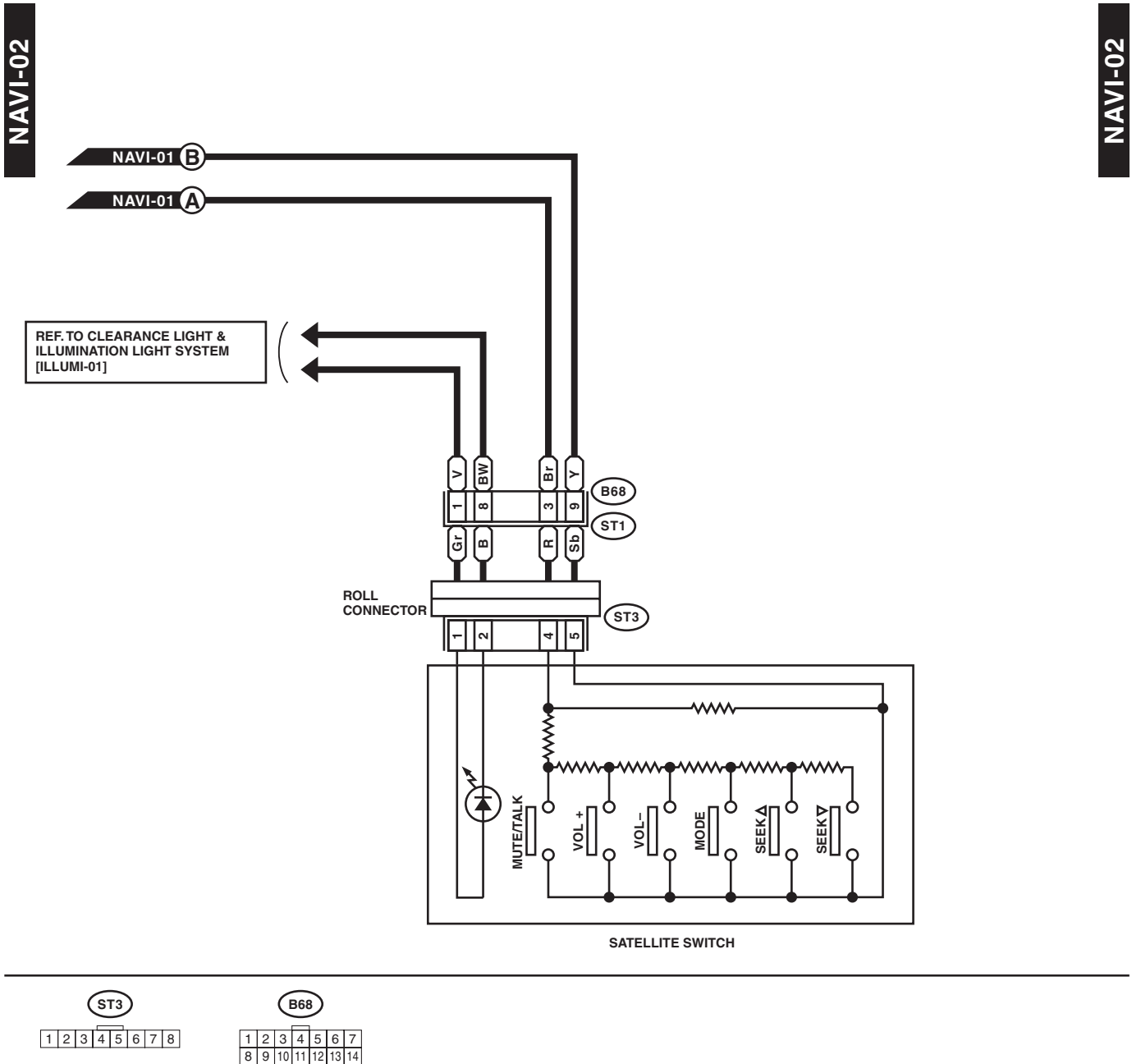
WIRING SYSTEM

32.Navigation System

A: WIRING DIAGRAM

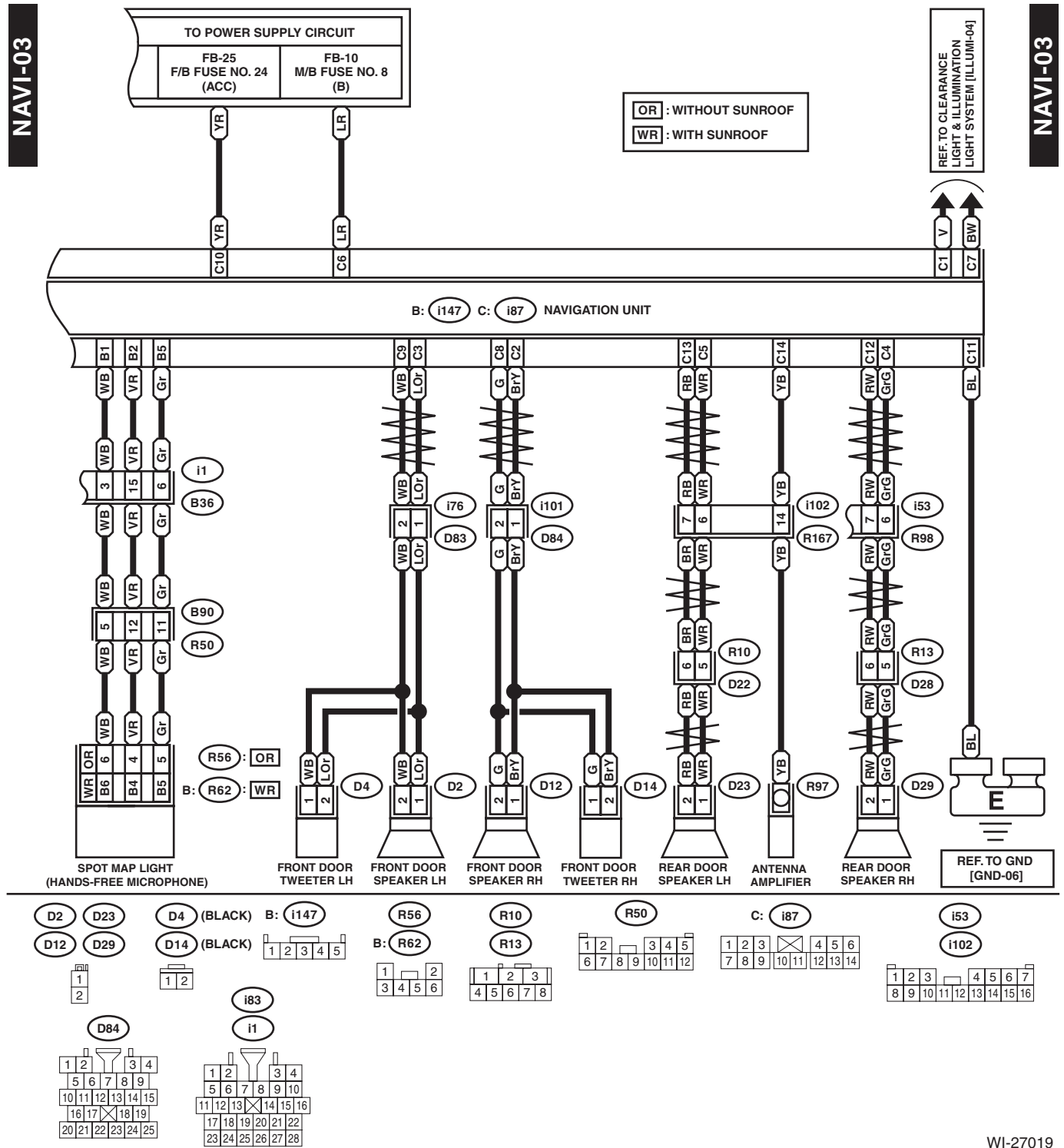


WI-27018



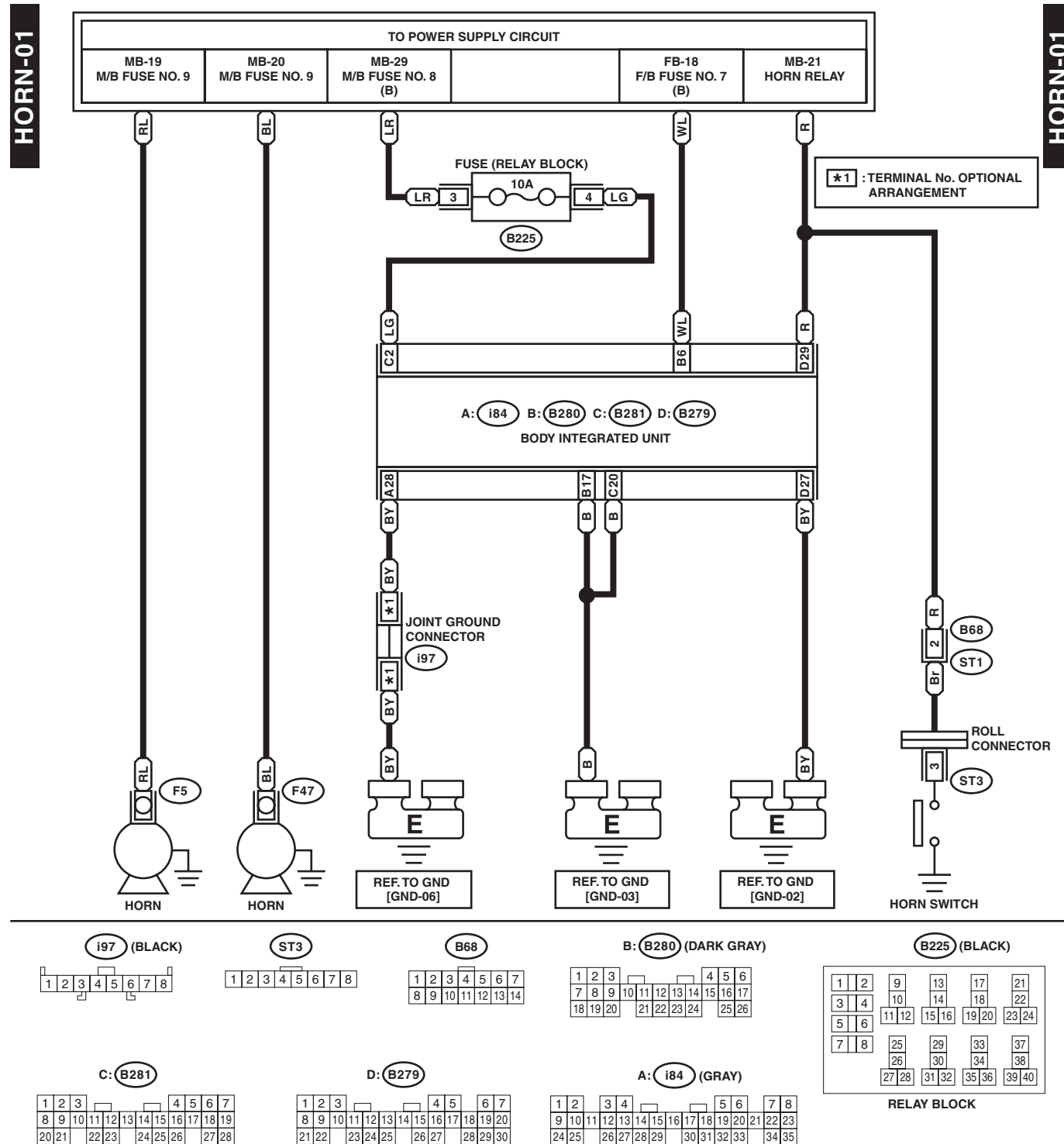
Navigation System

WIRING SYSTEM



33.Horn System

A: WIRING DIAGRAM



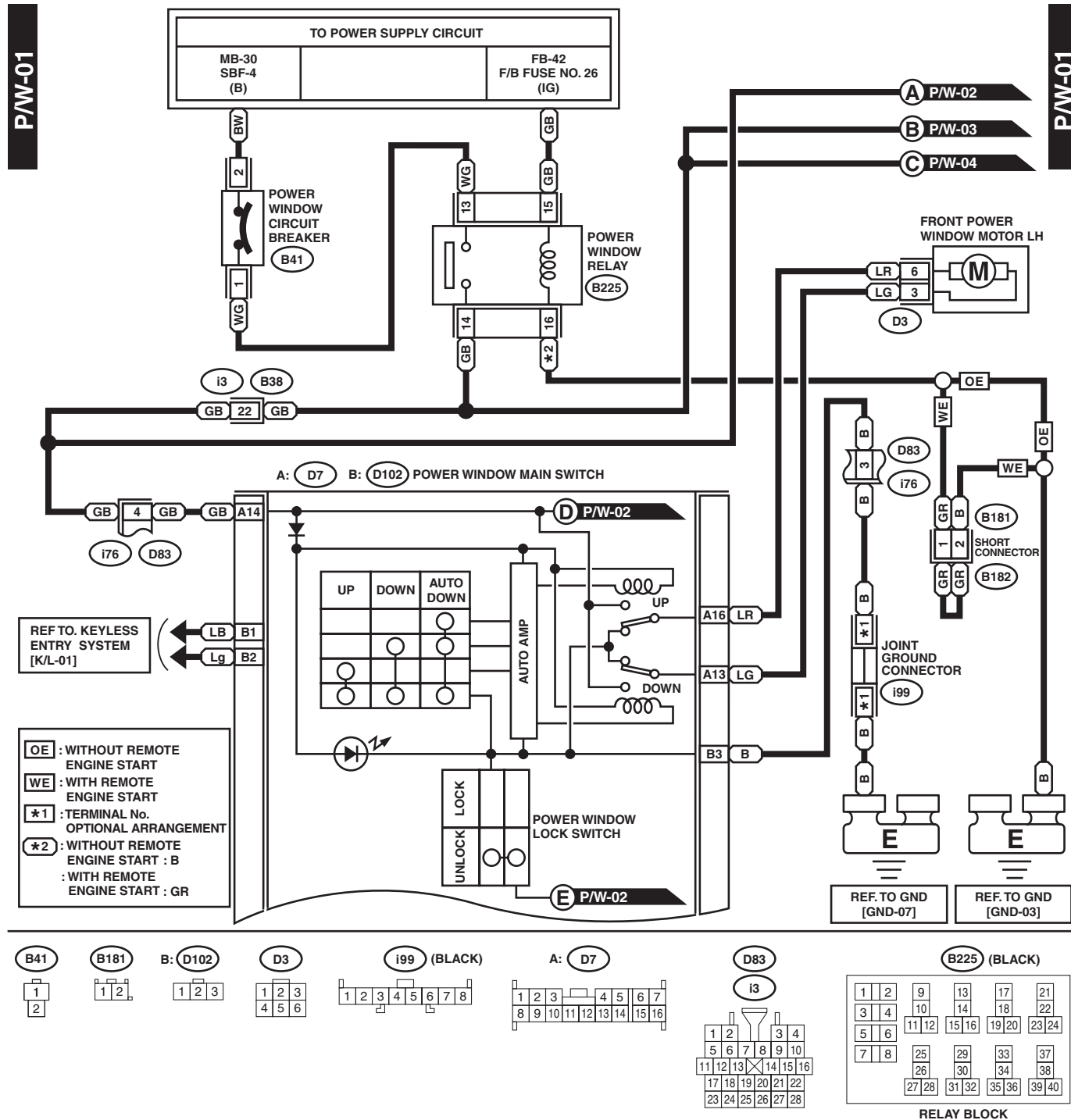
WI-27929

Power Window System

WIRING SYSTEM

34. Power Window System

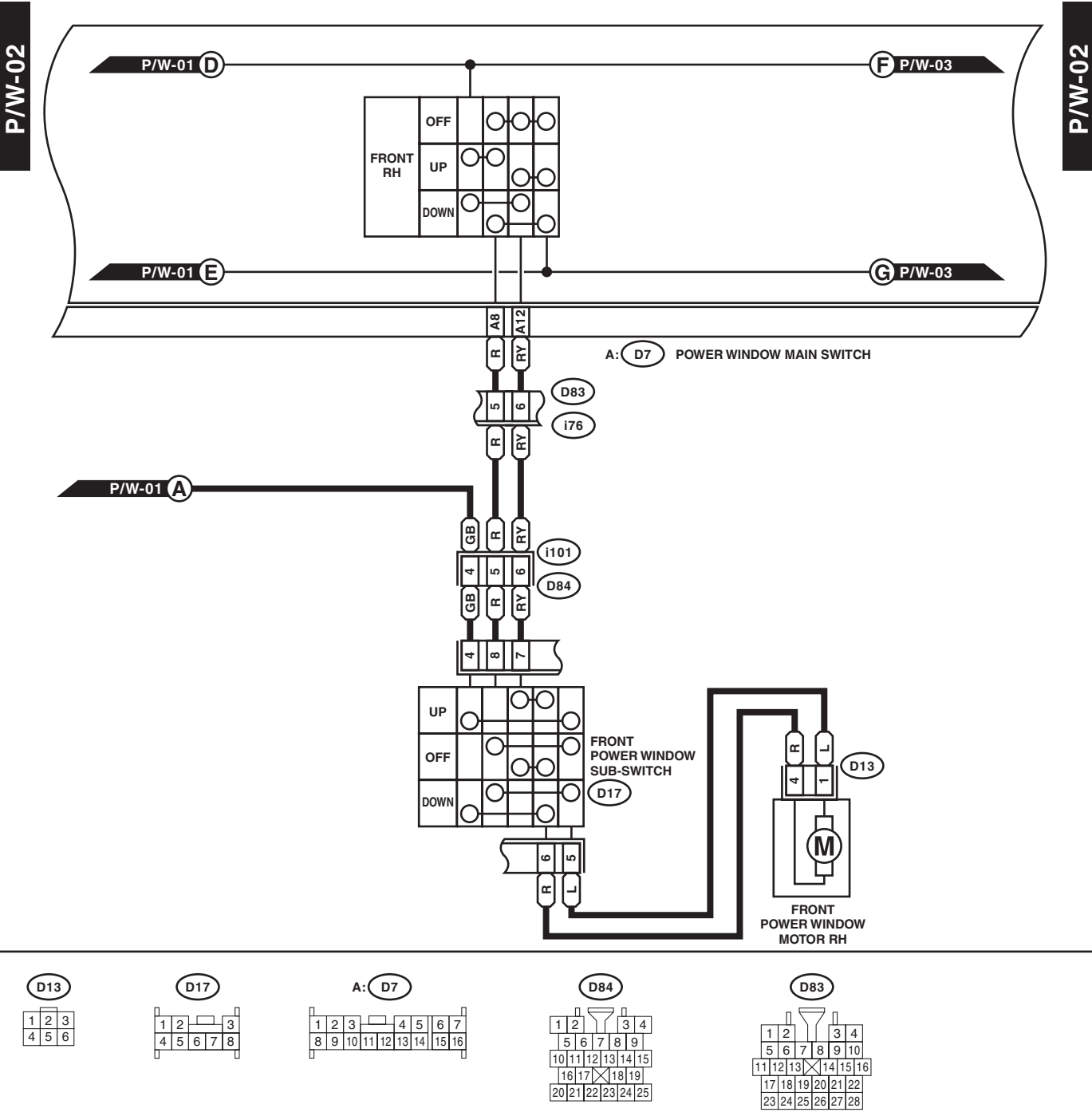
A: WIRING DIAGRAM



WI-21453

Power Window System

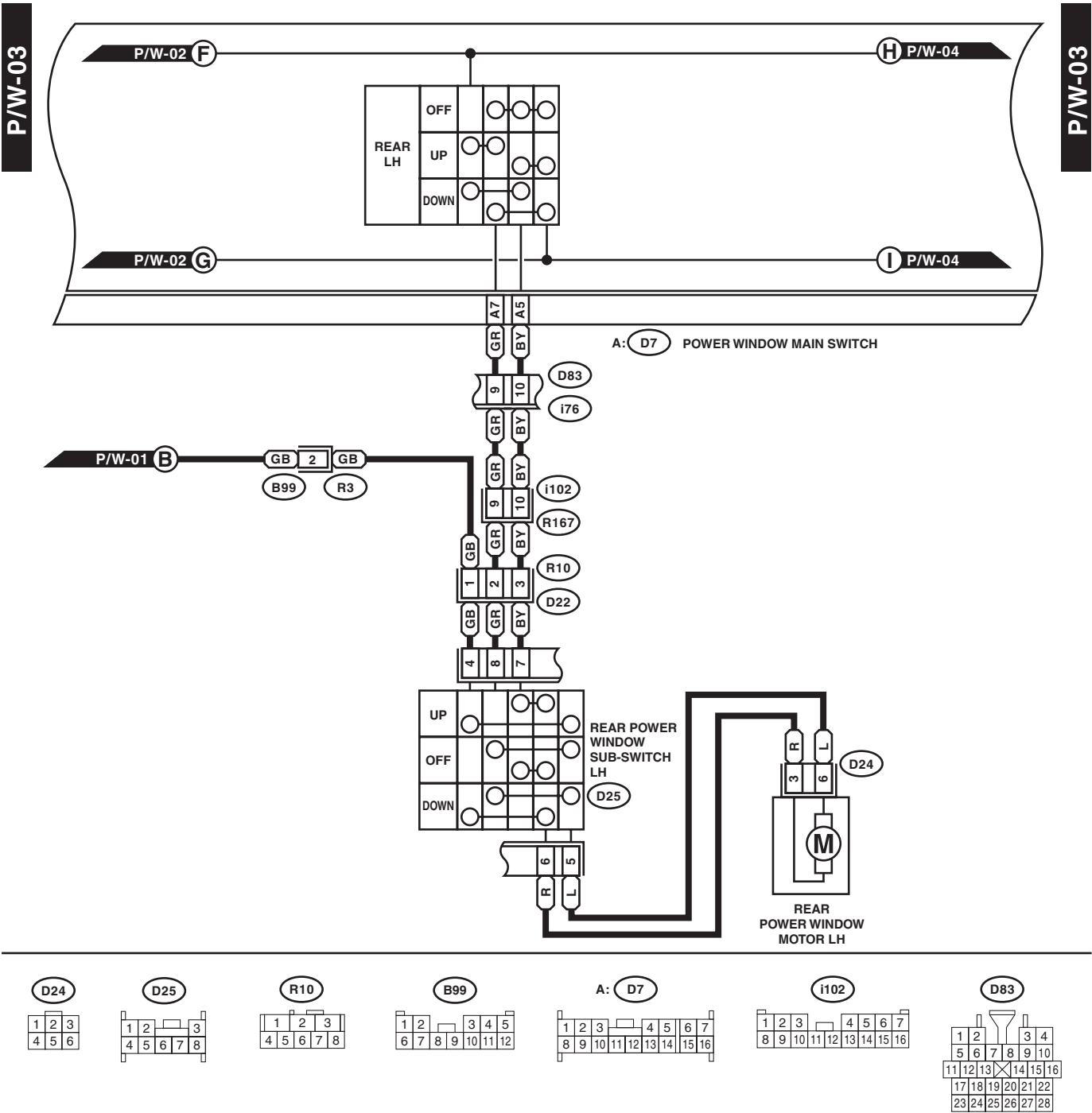
WIRING SYSTEM



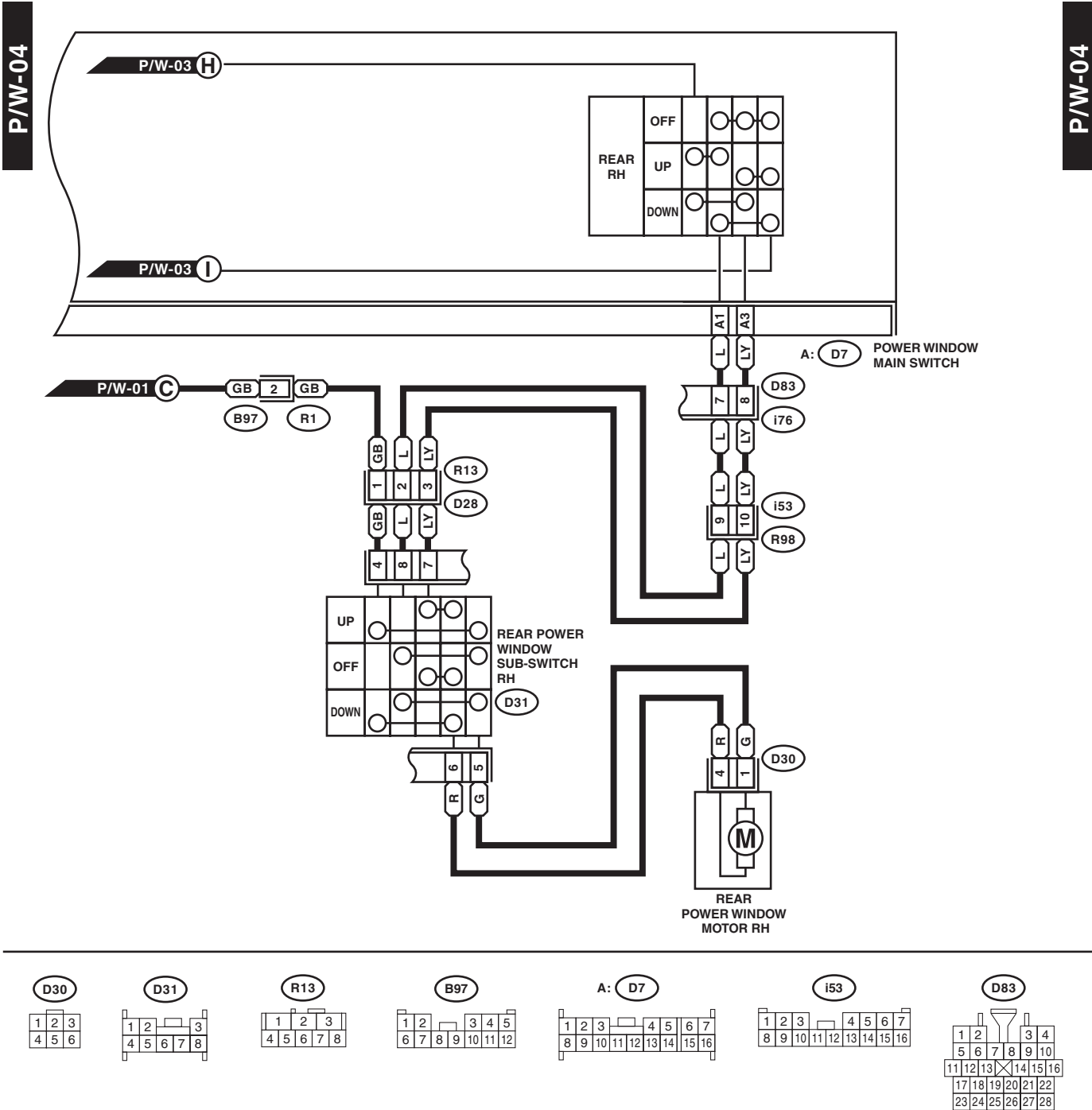
WI-22155

Power Window System

WIRING SYSTEM



WI-22156



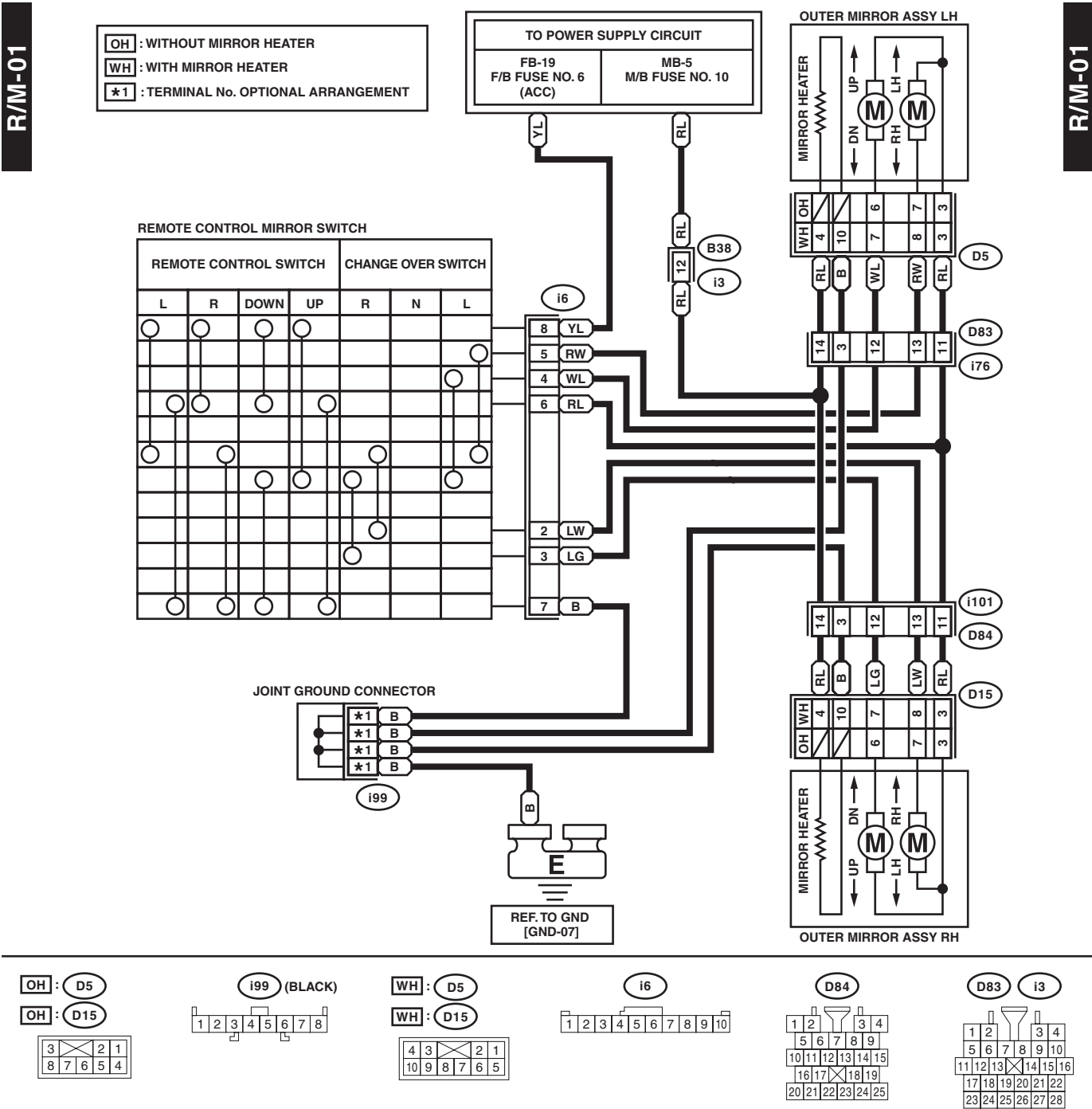
WI-22157

Remote Control Mirror System

WIRING SYSTEM

35.Remote Control Mirror System

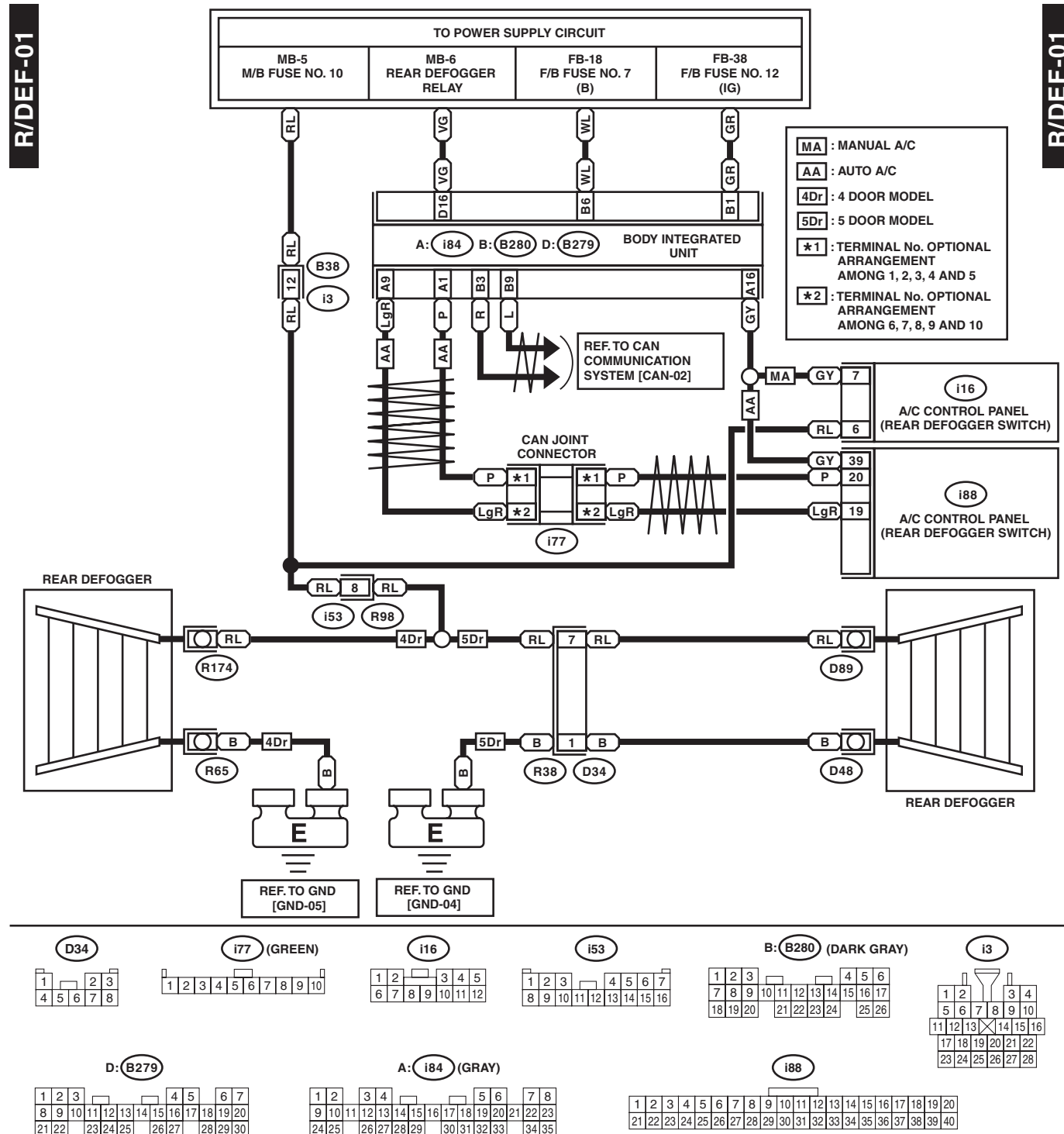
A: WIRING DIAGRAM



WI-27971

36. Rear Defogger System

A: WIRING DIAGRAM

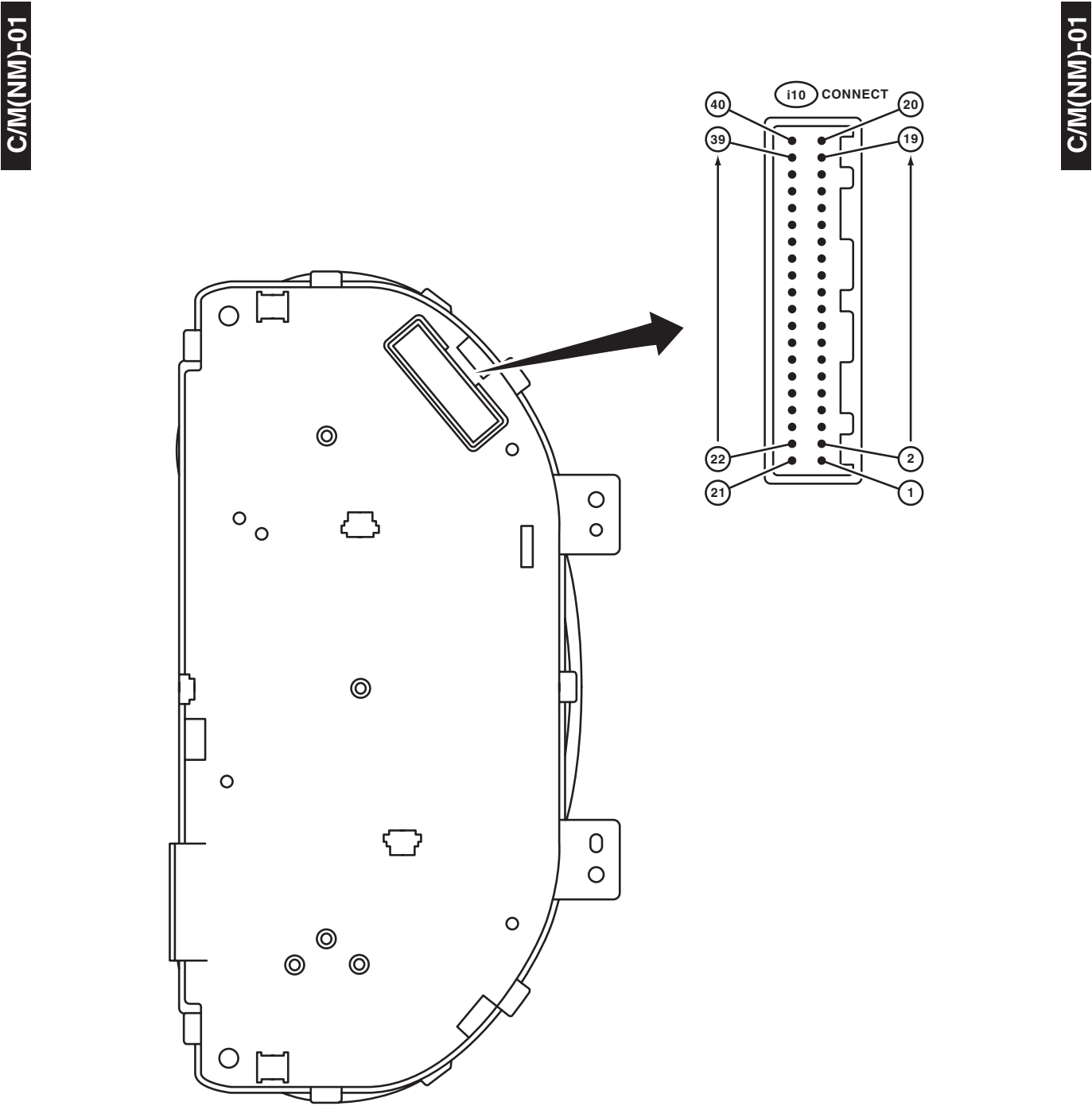


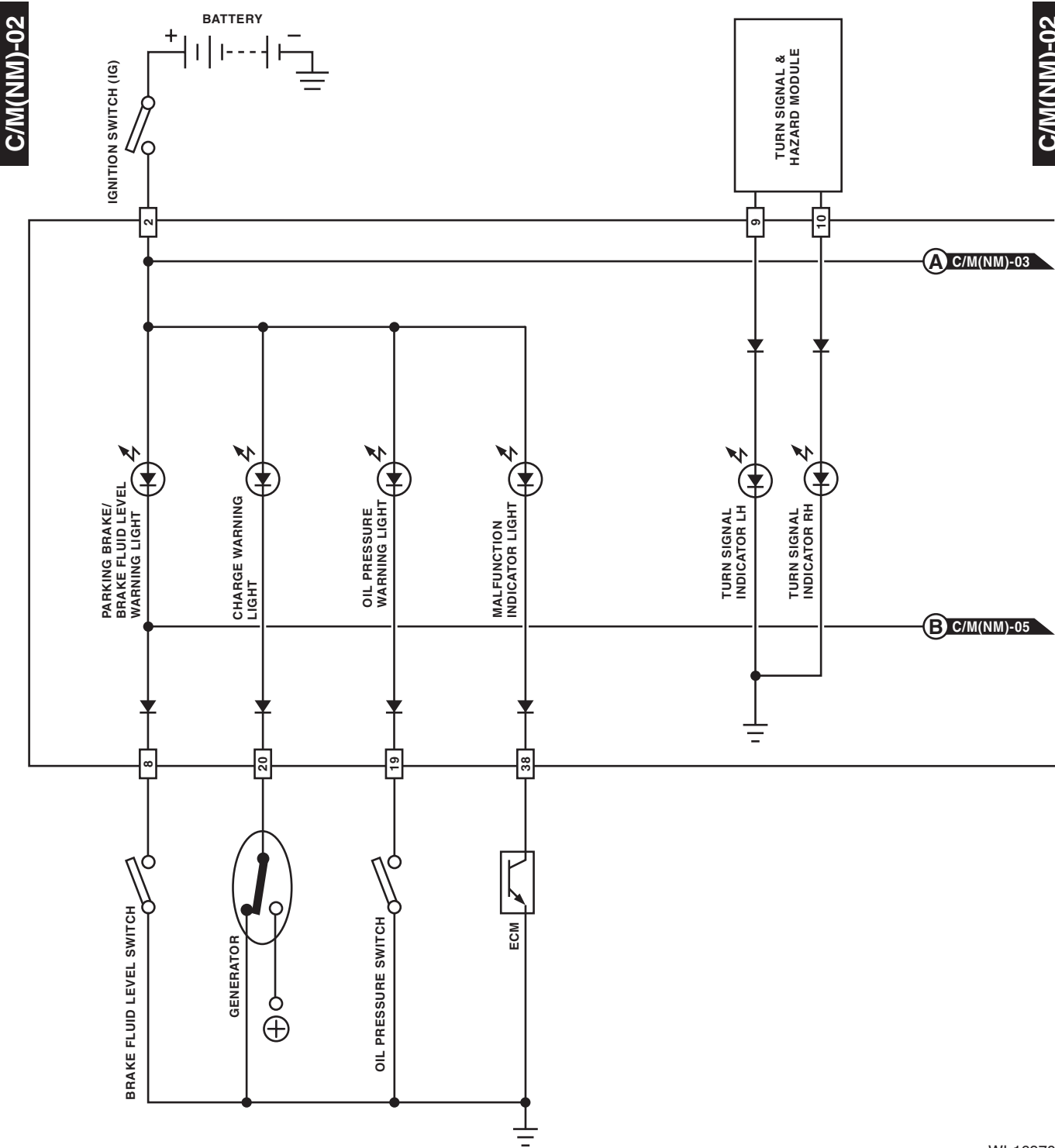
WI-27020

37.Combination Meter System

A: WIRING DIAGRAM

1. NORMAL METER

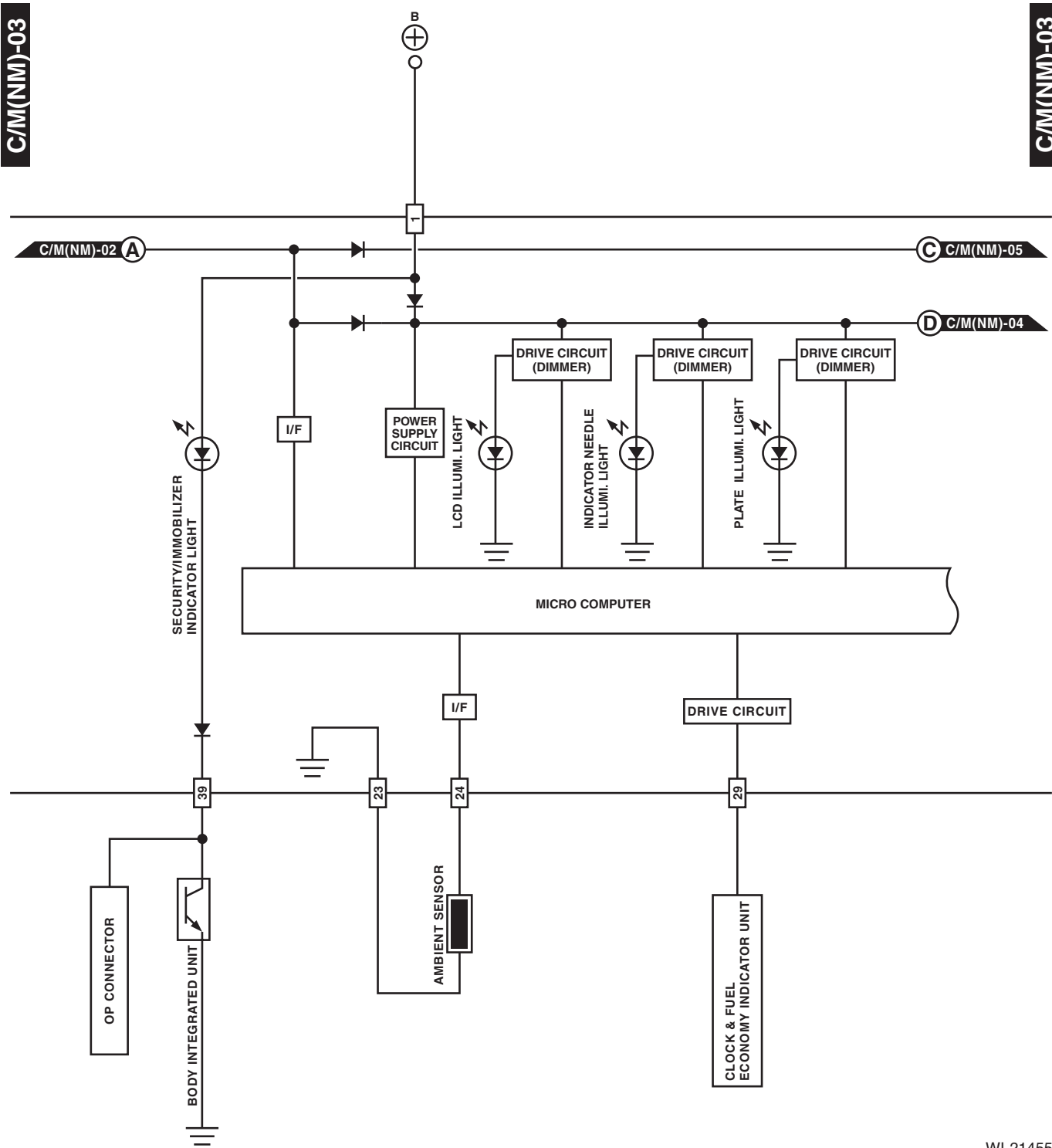




WI-16970

Combination Meter System

WIRING SYSTEM

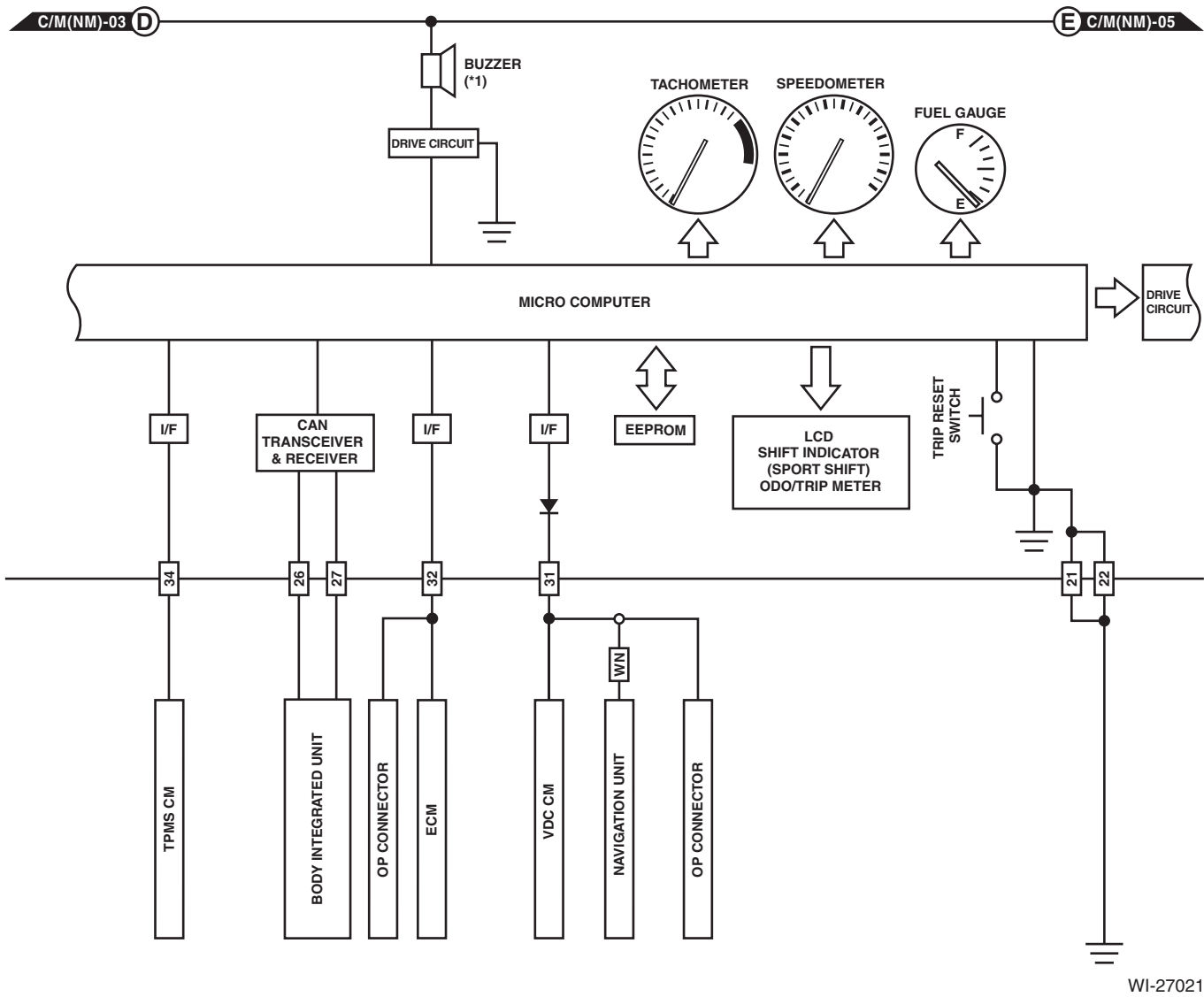


WI-21455

C/M(NM)-04

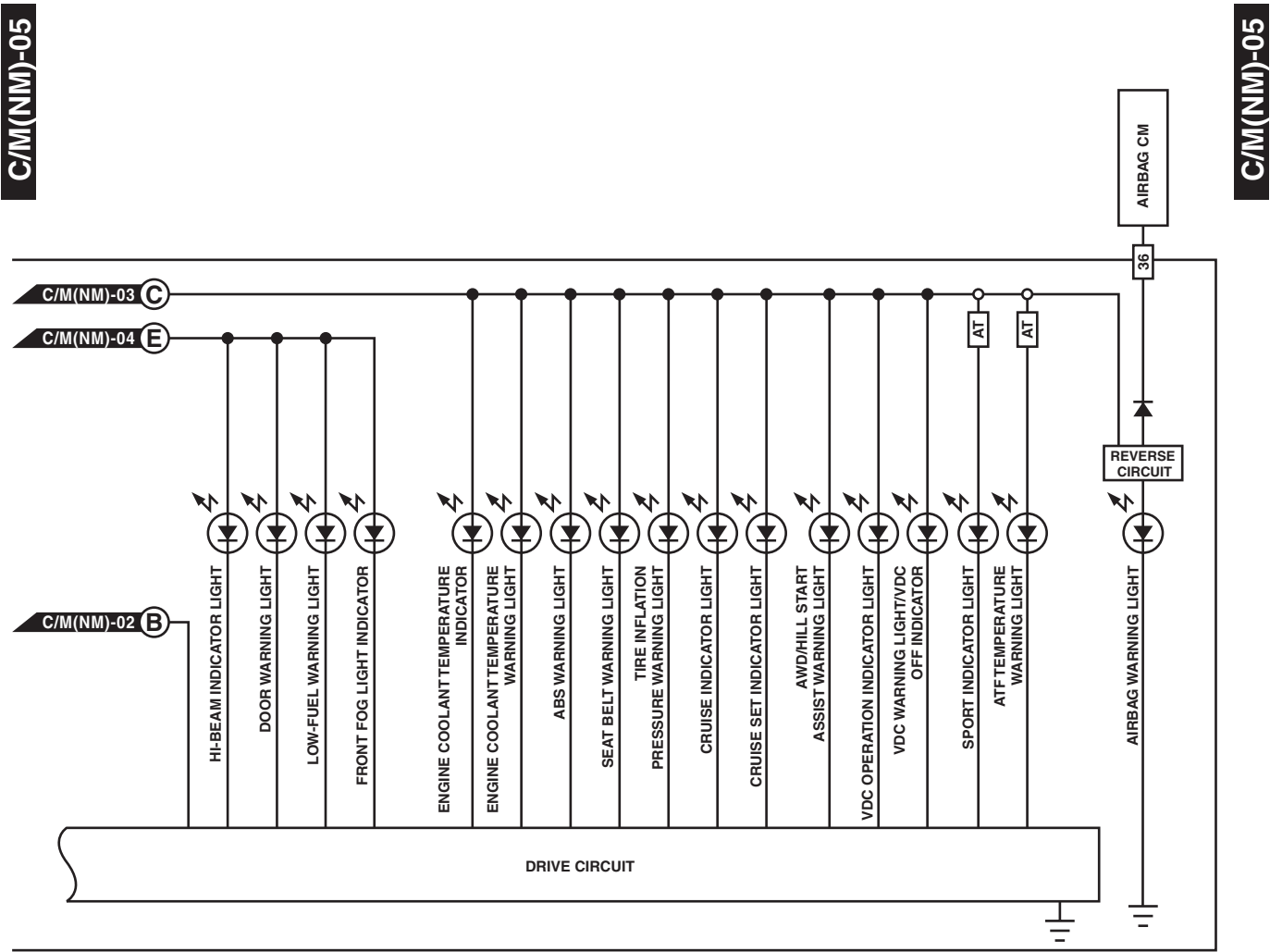
C/M(NM)-04

WN : WITH NAVIGATION
*1 : SEAT BELT
KEY WARNING
HEADLIGHT WARNING
CUSTOMIZED
SPORT SHIFT



Combination Meter System

WIRING SYSTEM

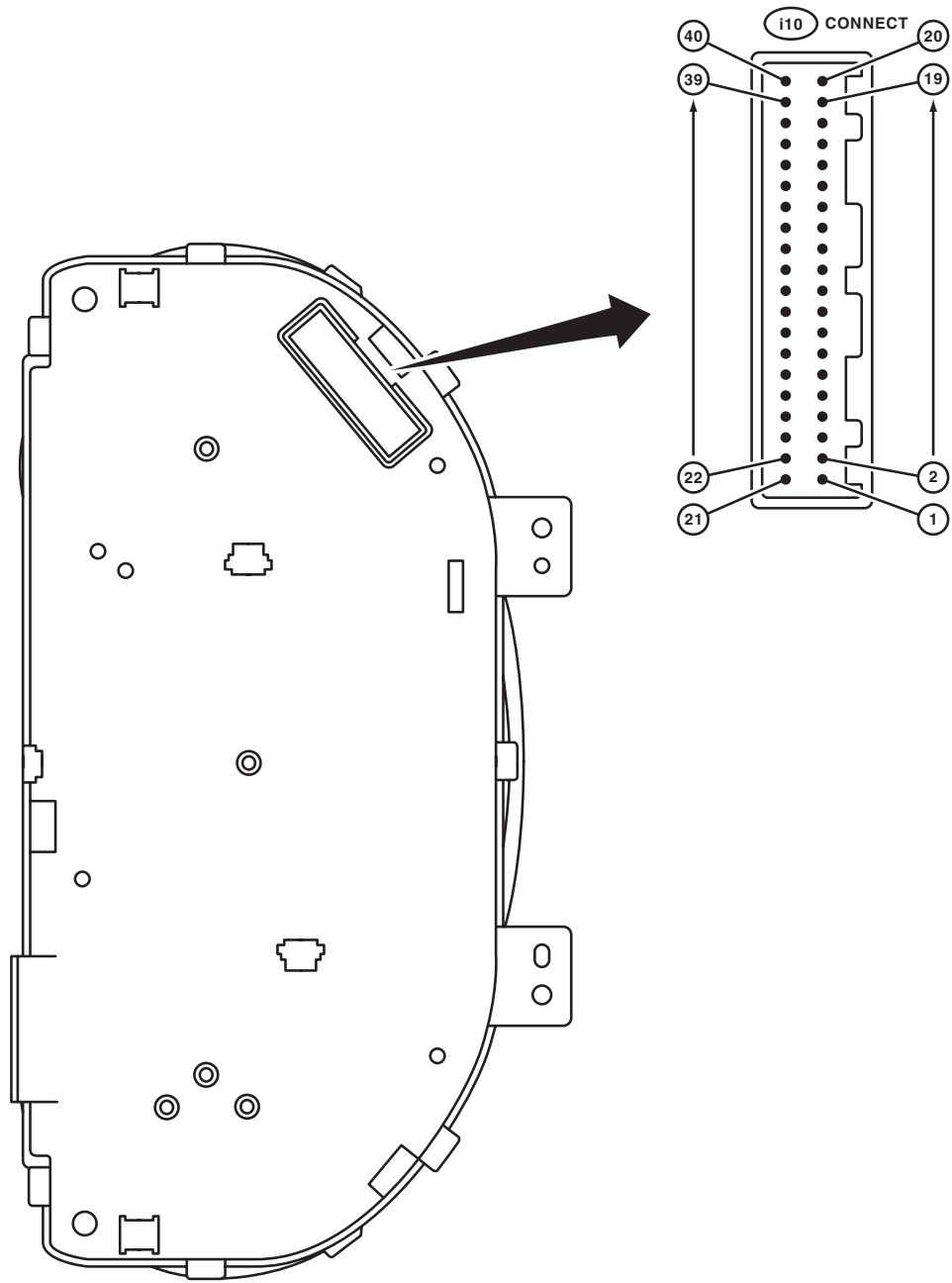


WI-27022

2. LUMINESCENT METER

C/M(LM)-01

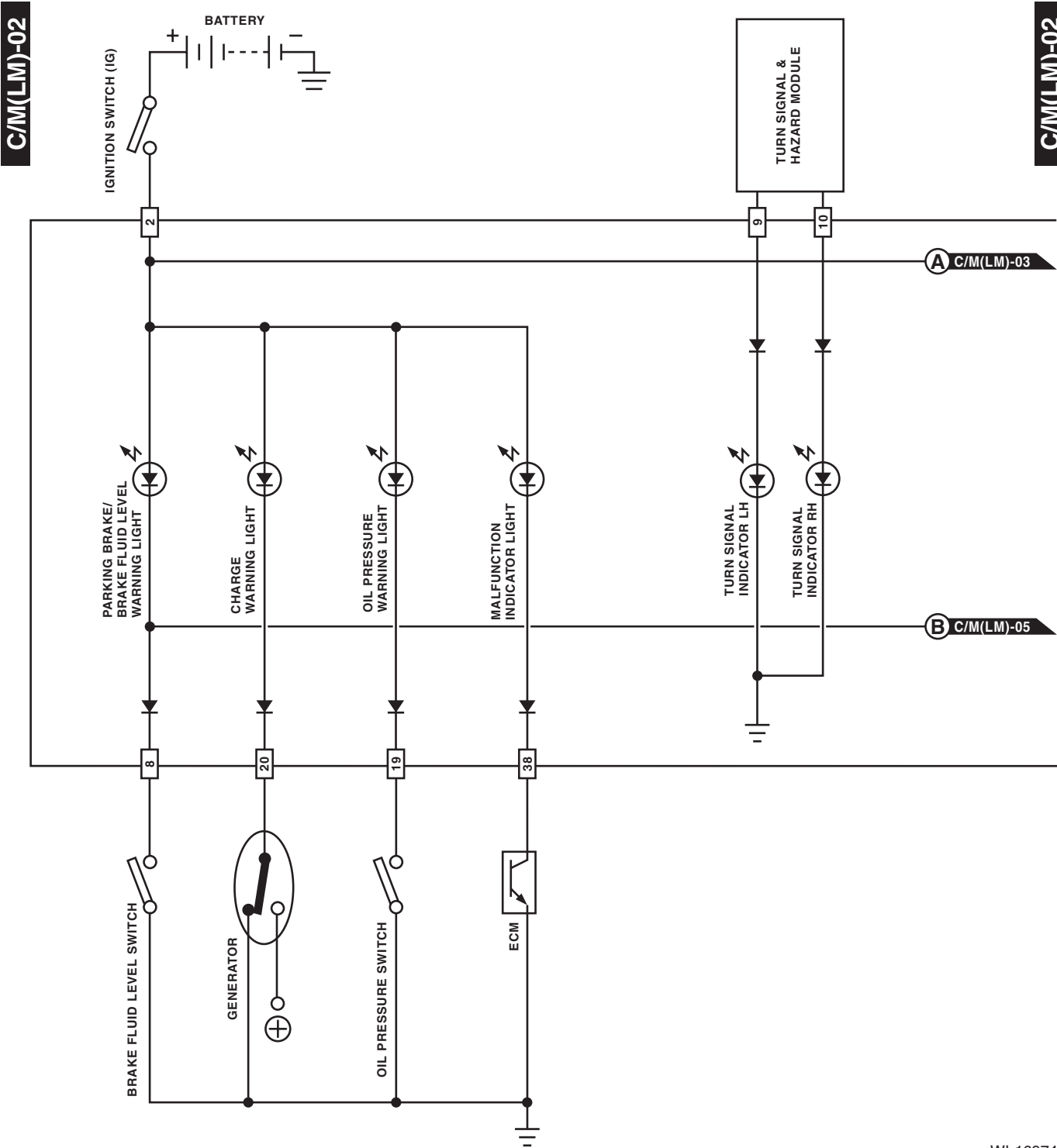
C/M(LM)-01



WI-16973

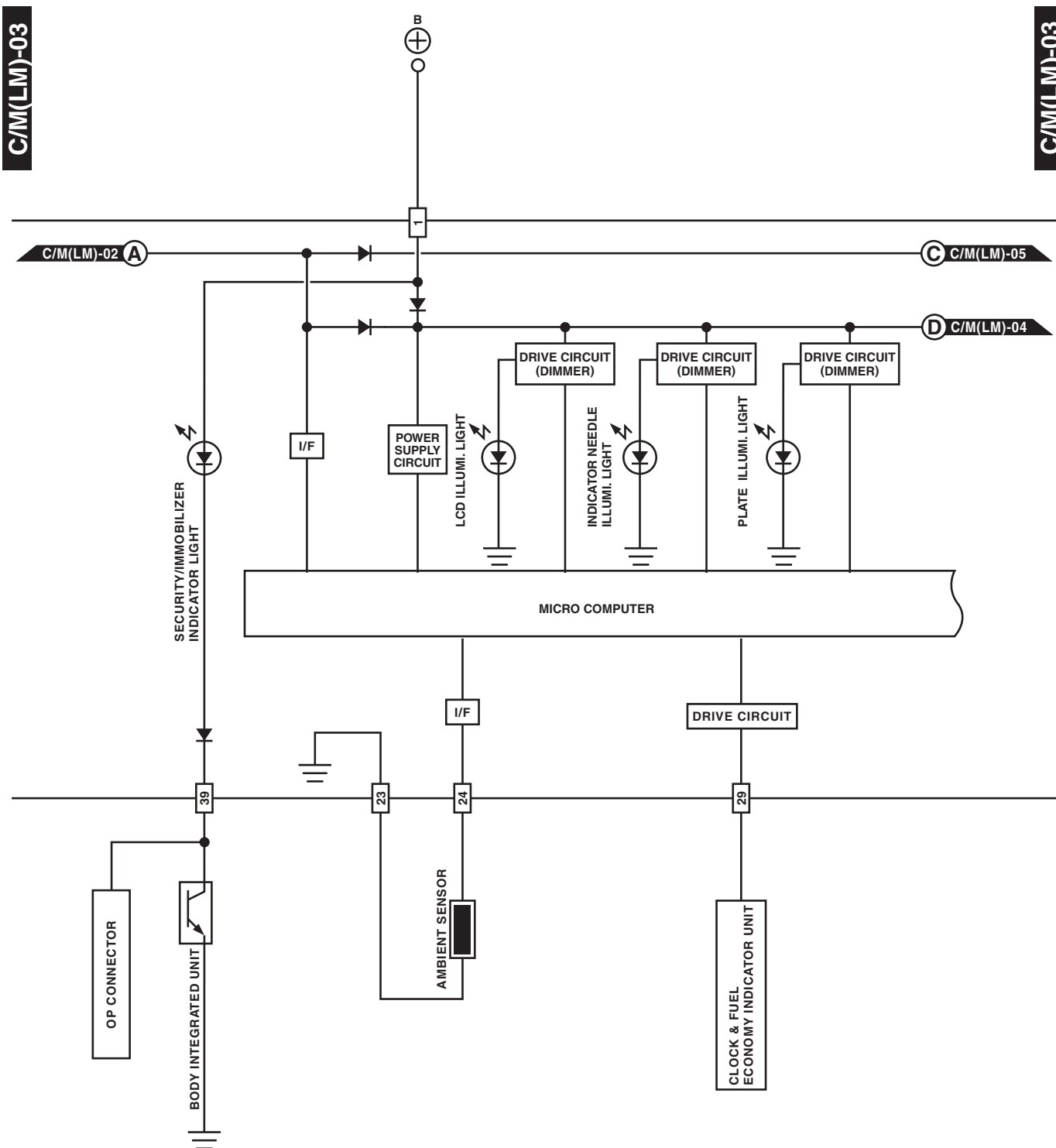
Combination Meter System

WIRING SYSTEM



WI-16974

WIRING SYSTEM



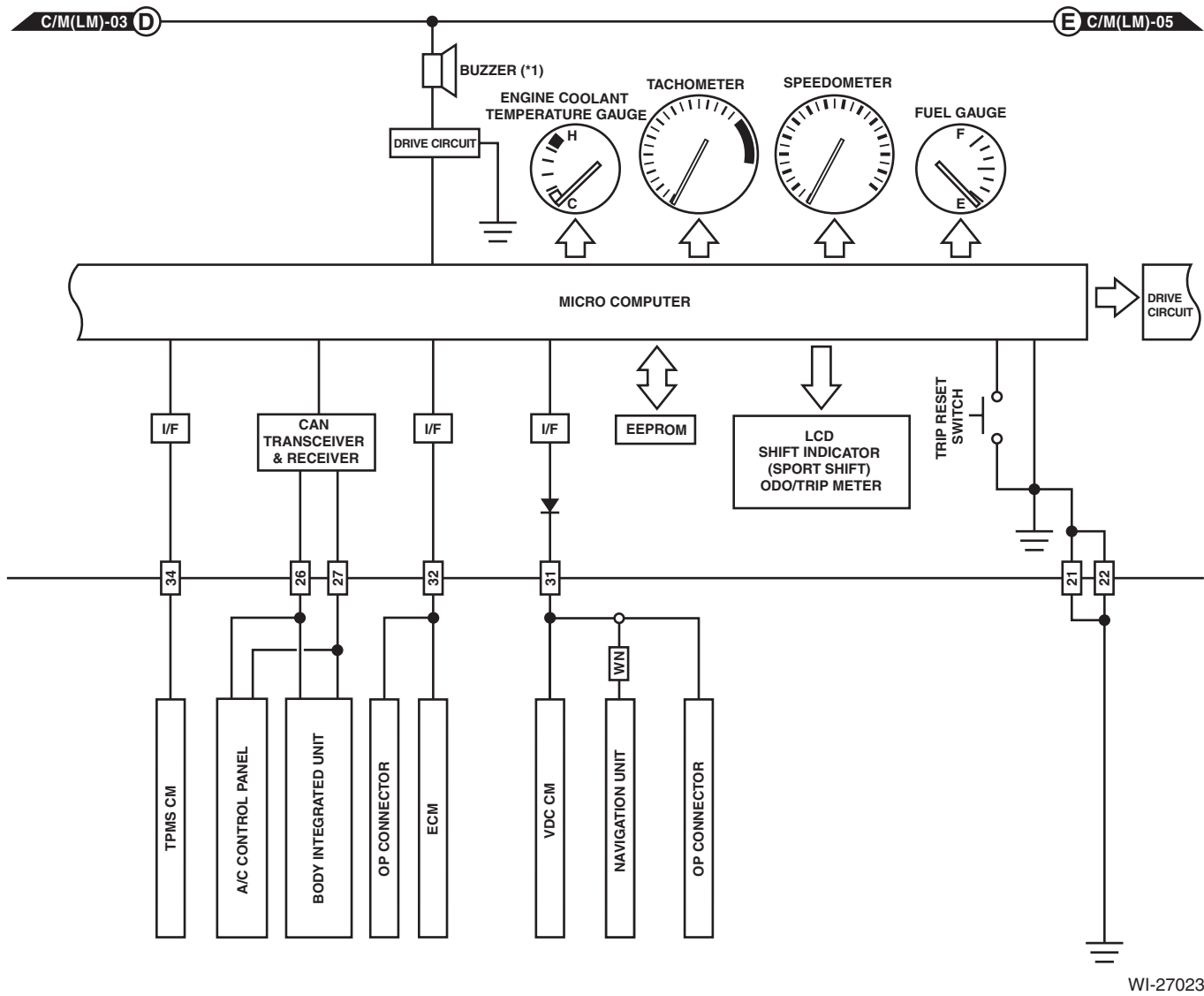
Combination Meter System

WIRING SYSTEM

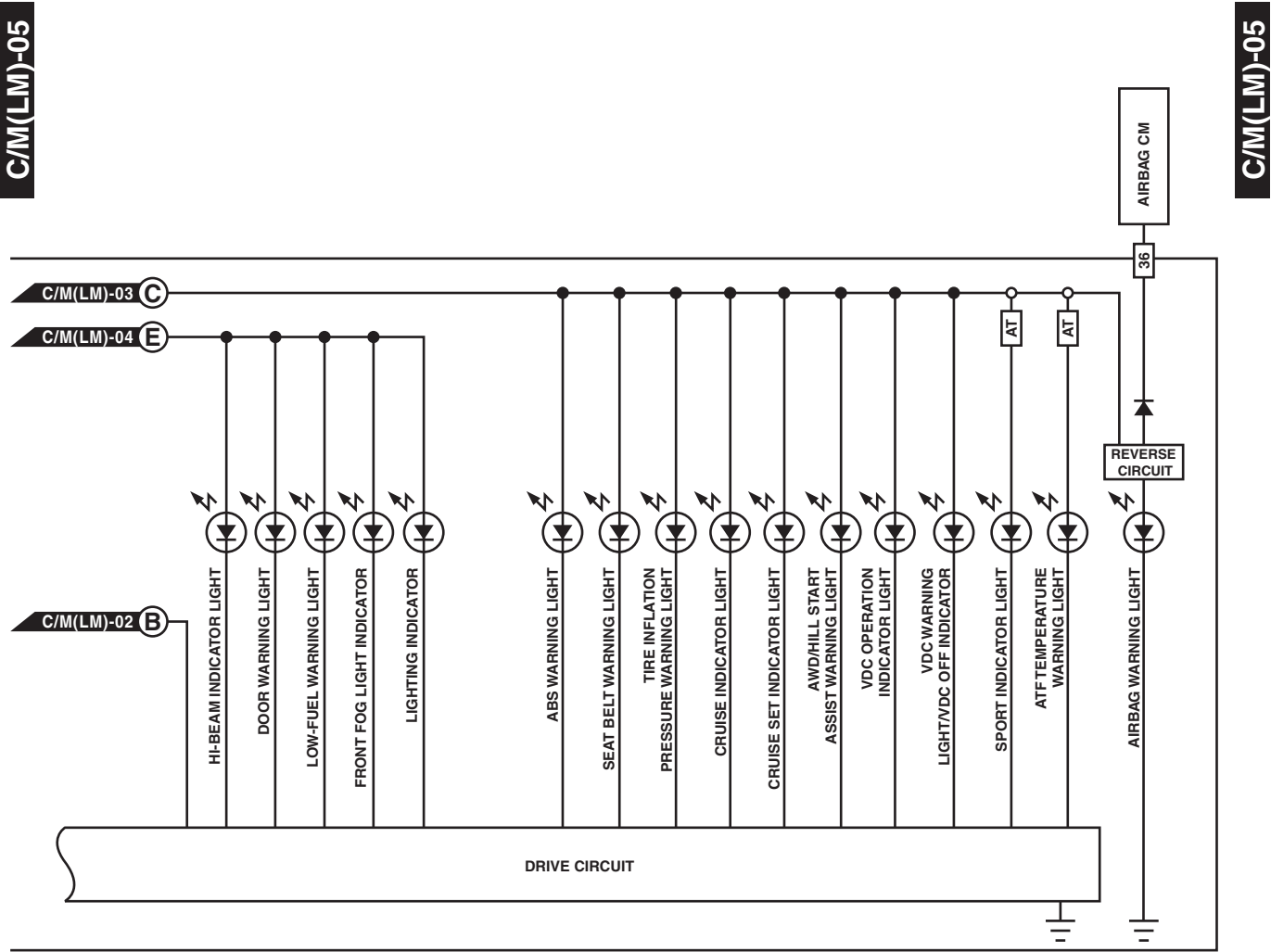
C/M(LM)-04

C/M(LM)-04

WN : WITH NAVIGATION
★ 1 : SEAT BELT
KEY WARNING
HEADLIGHT WARNING
CUSTOMIZED
SPORT SHIFT



WI-27023



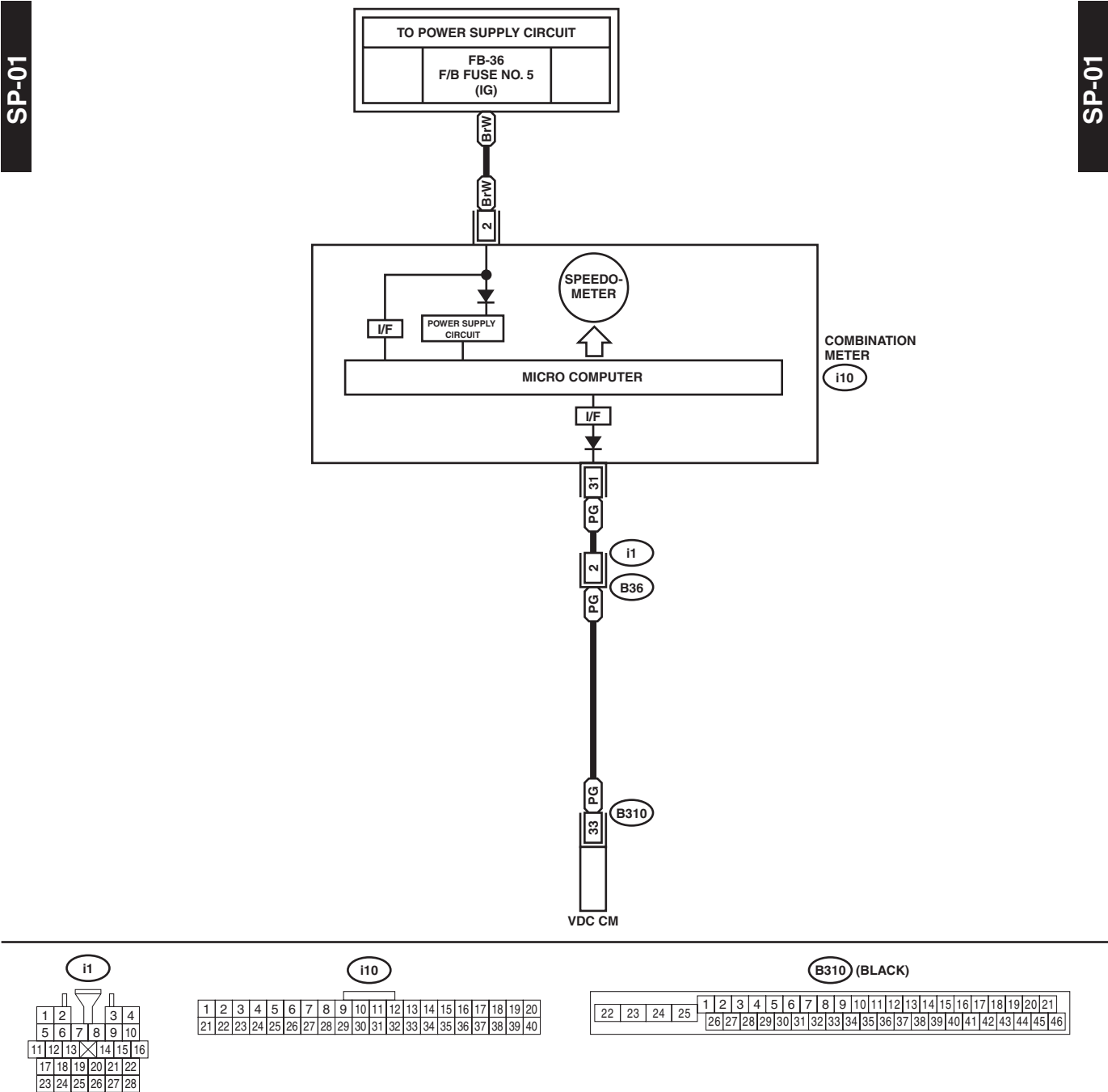
WI-27048

Speedometer System

WIRING SYSTEM

38.Speedometer System

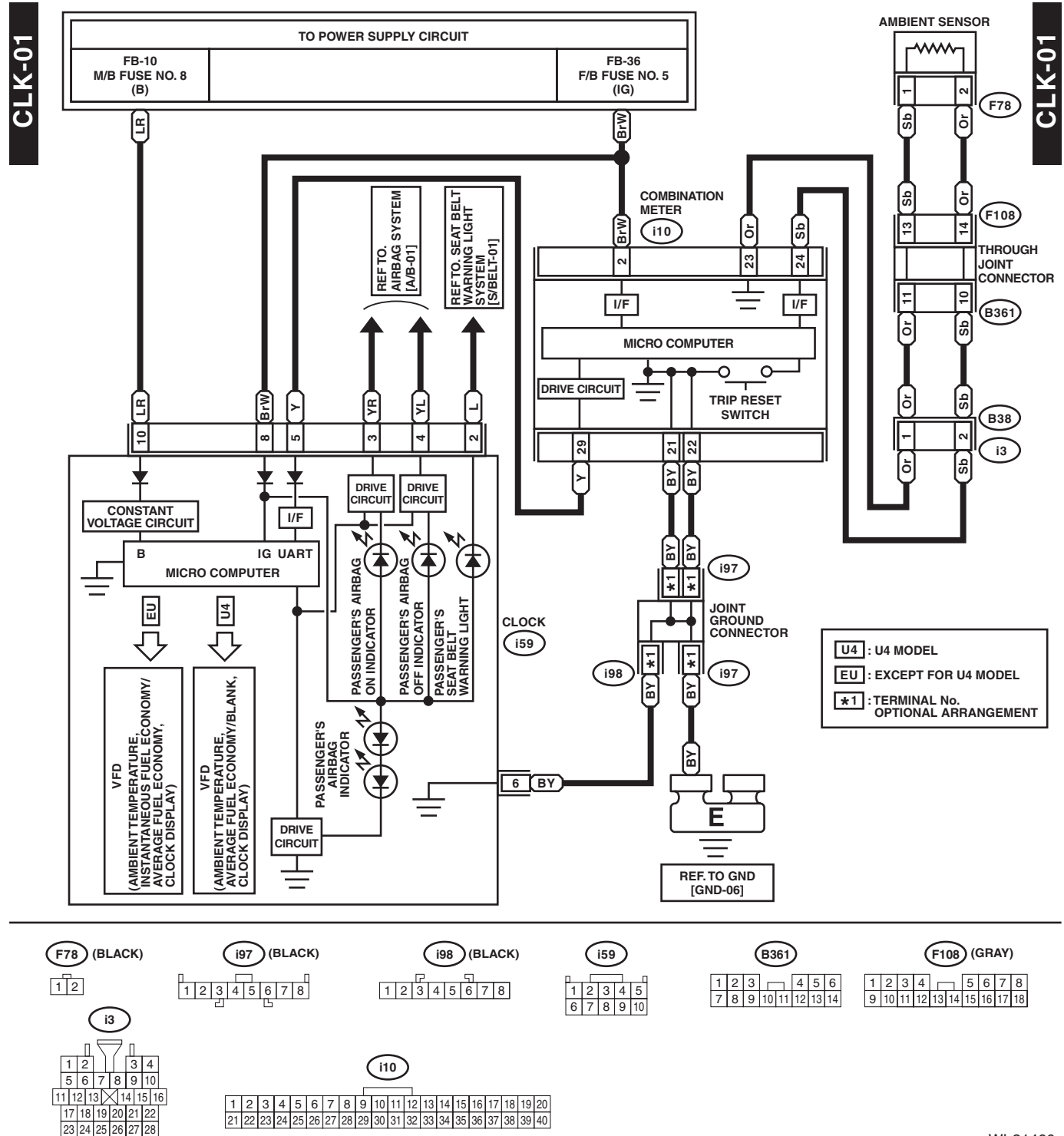
A: WIRING DIAGRAM



WI-27024

39.Clock System

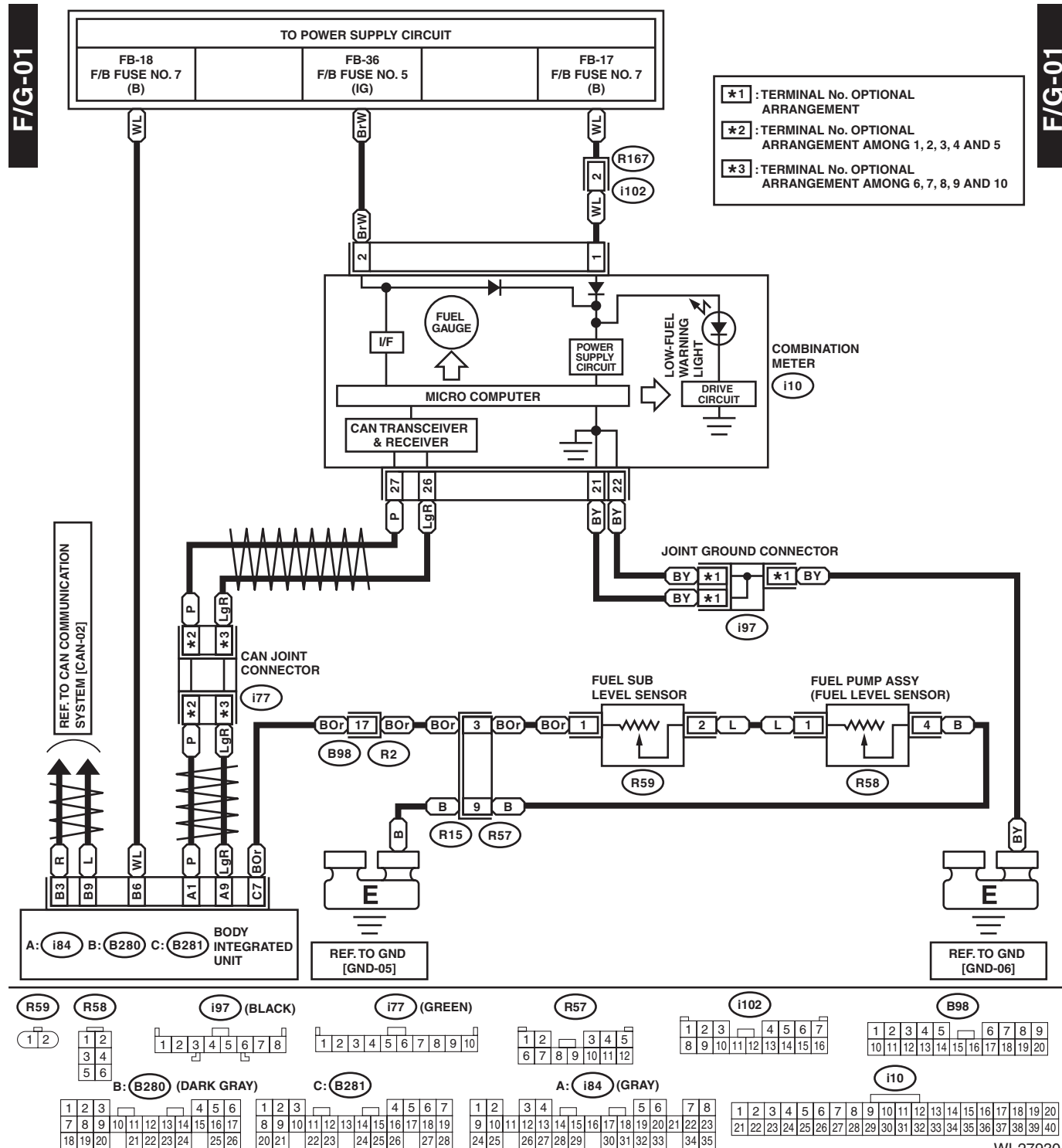
A: WIRING DIAGRAM



WI-21460

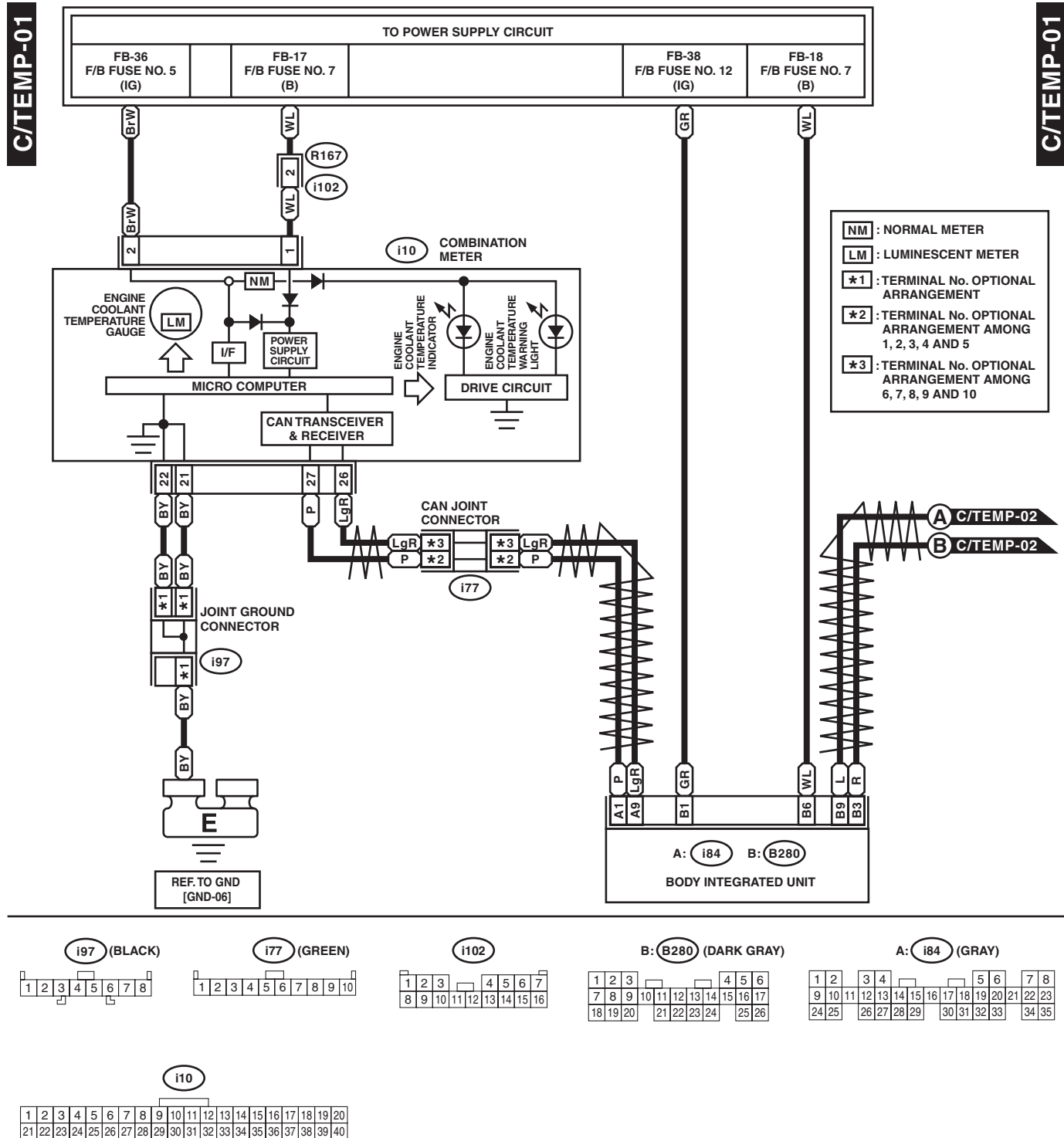
40. Fuel Gauge System

A: WIRING DIAGRAM



41. Coolant Temperature System

A: WIRING DIAGRAM



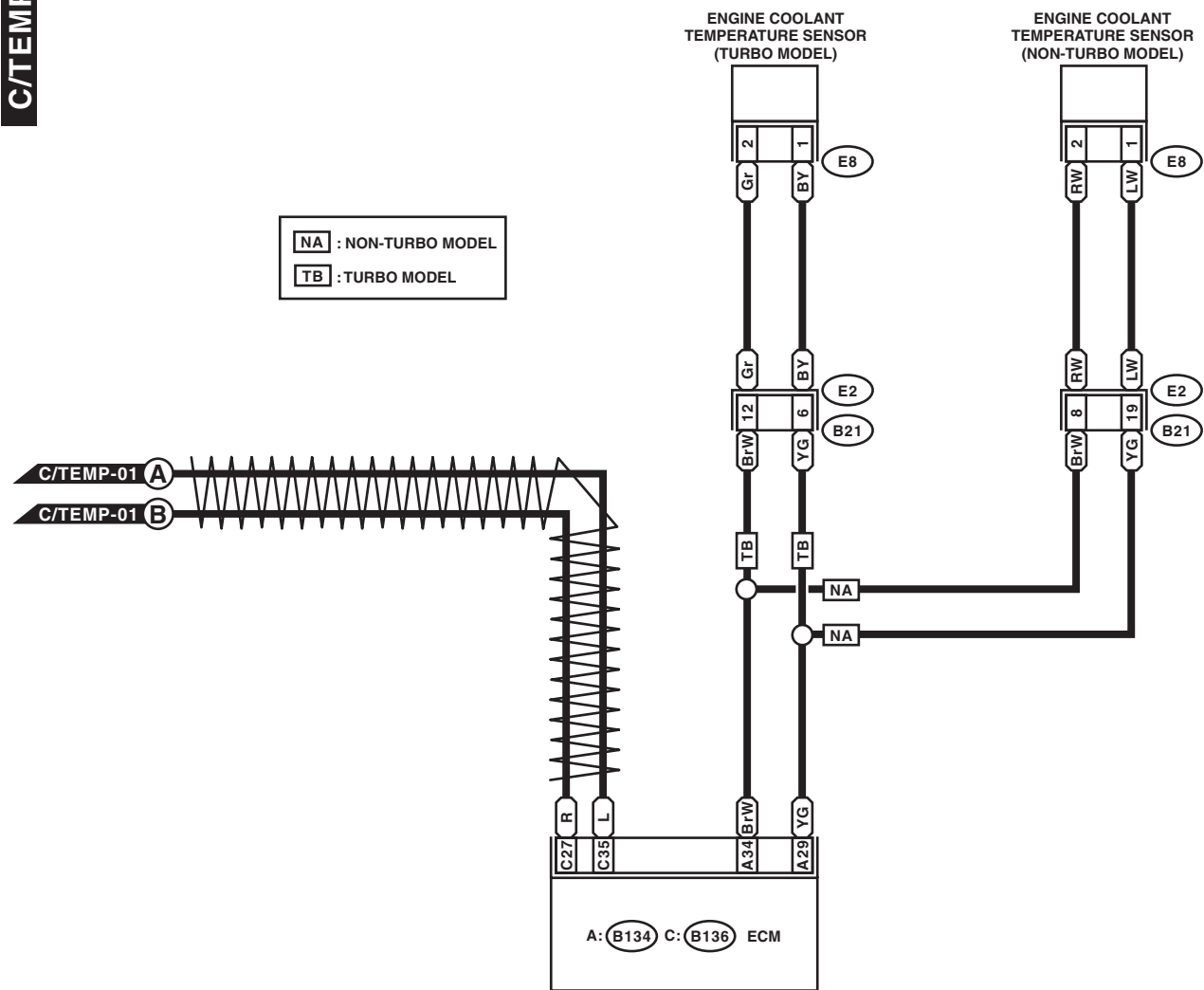
WI-27931

Coolant Temperature System

WIRING SYSTEM

C/TEMP-02

C/TEMP-02



E8 (BLACK)

1 2

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	

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	

B21 (BLACK)

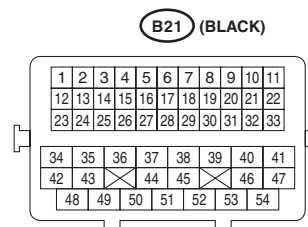
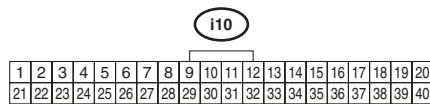
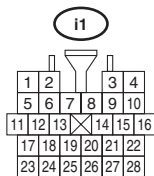
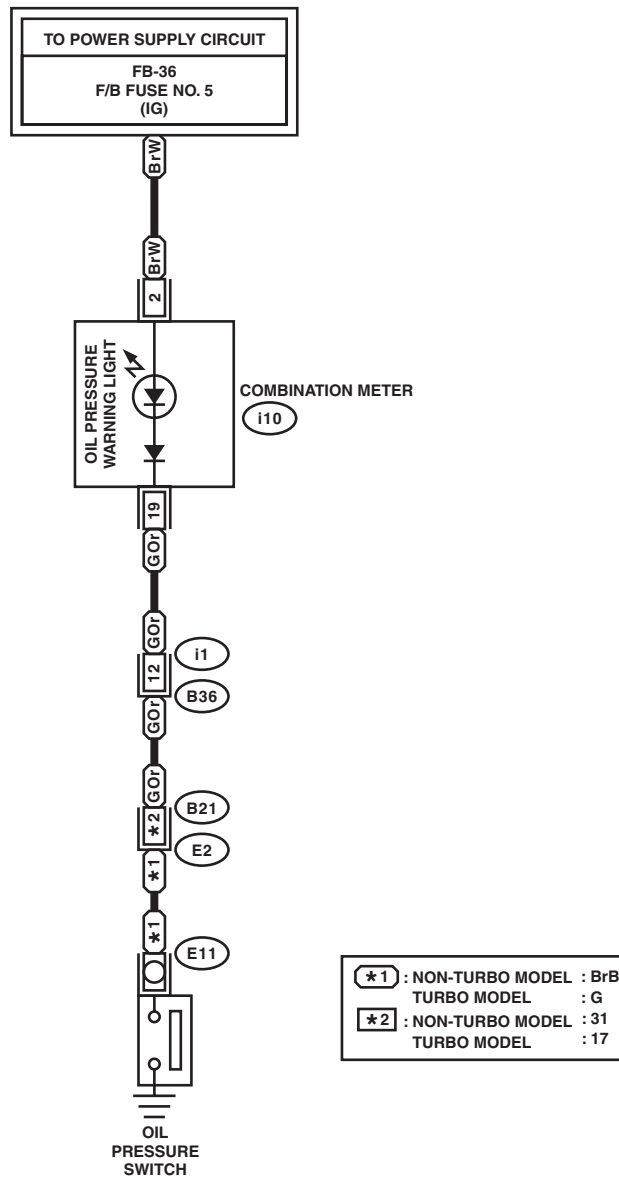
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	

WI-22961

A: WIRING DIAGRAM

OIL/P-01

OIL/P-01

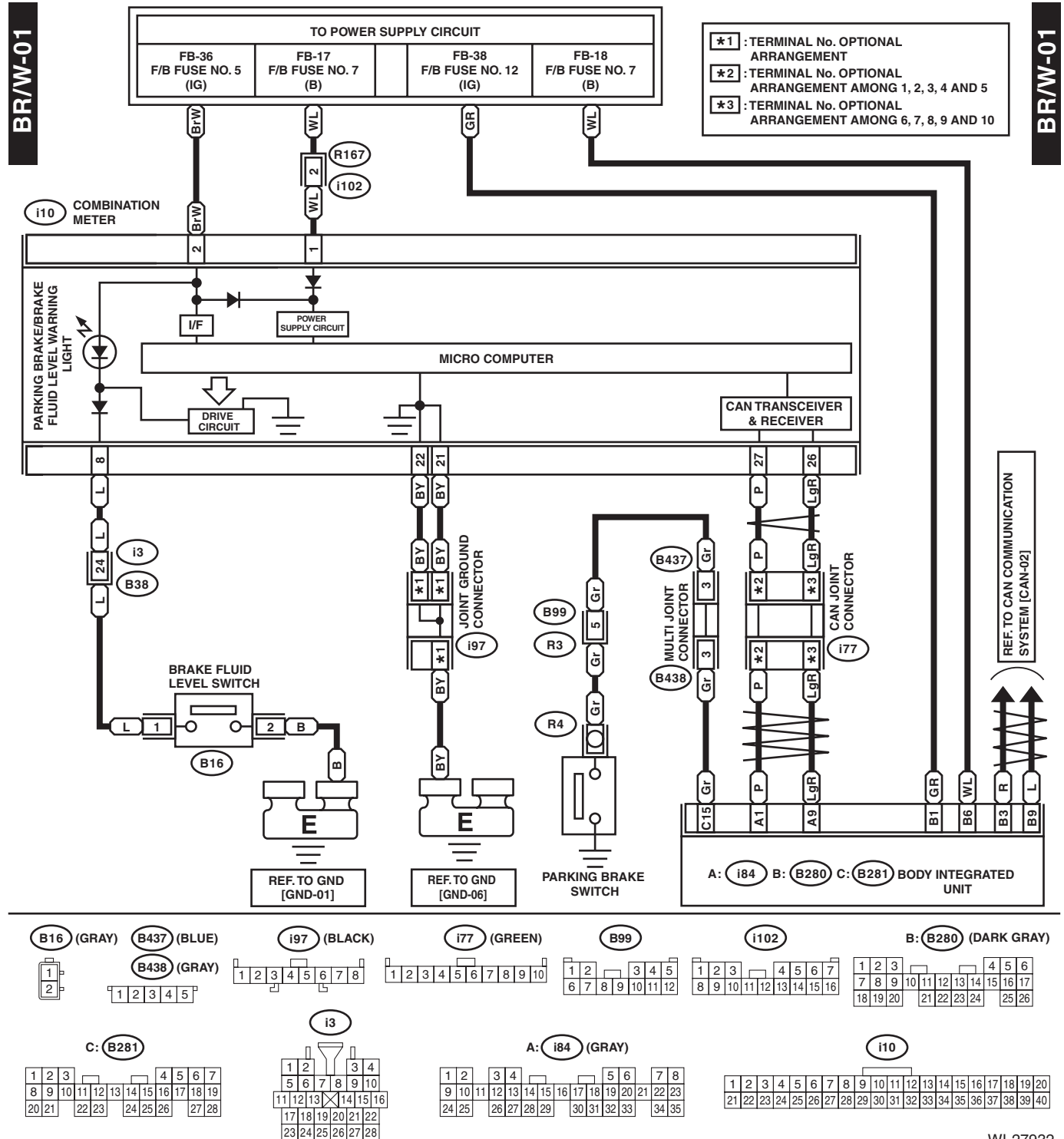


Parking Brake / Brake Fluid Level Warning Light System

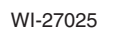
WIRING SYSTEM

43. Parking Brake / Brake Fluid Level Warning Light System

A: WIRING DIAGRAM

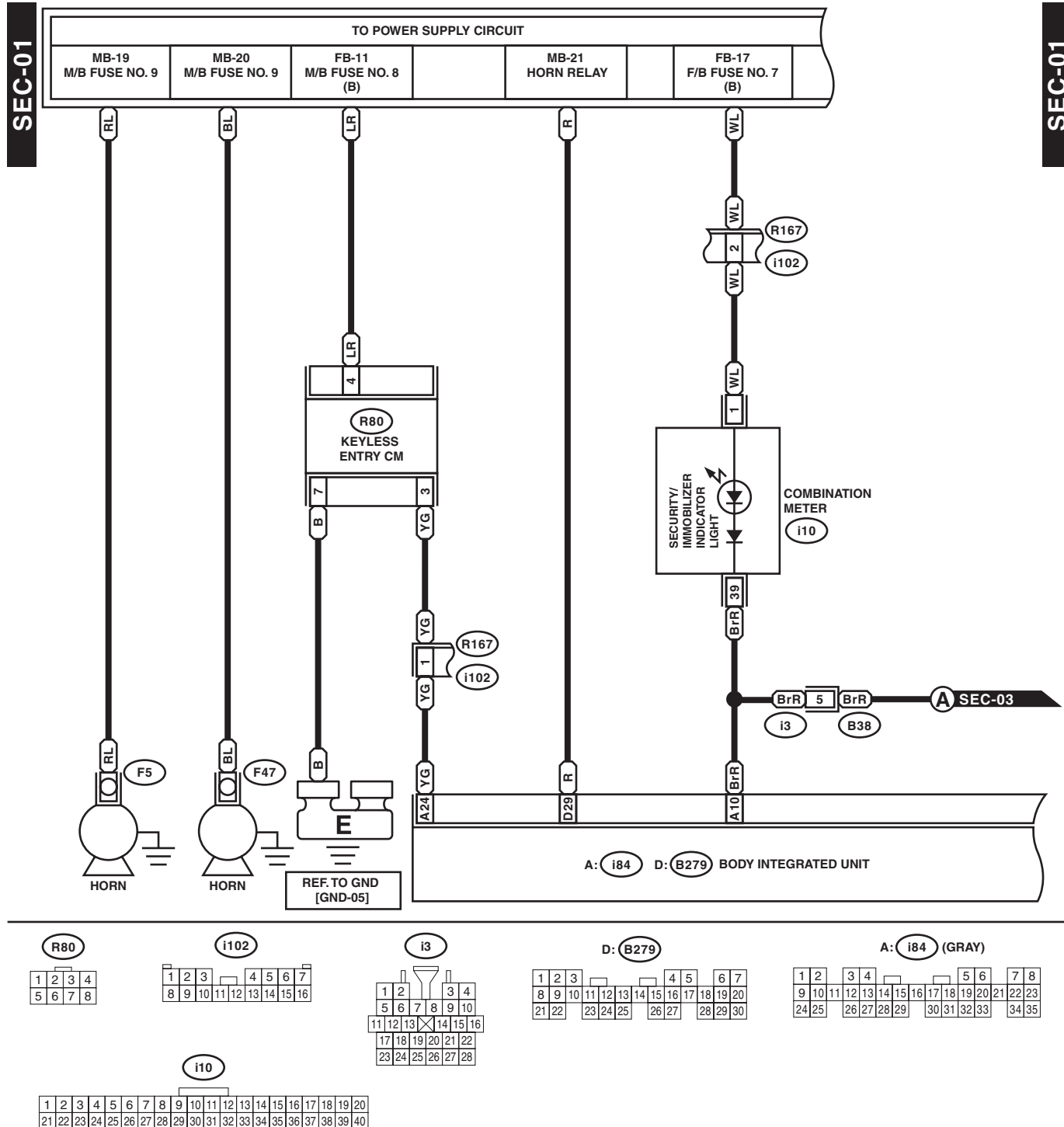


A: WIRING DIAGRAM



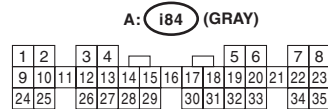
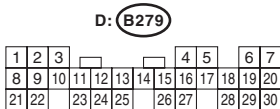
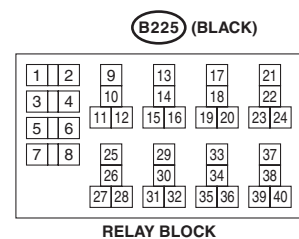
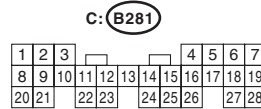
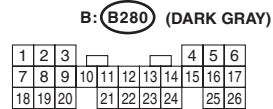
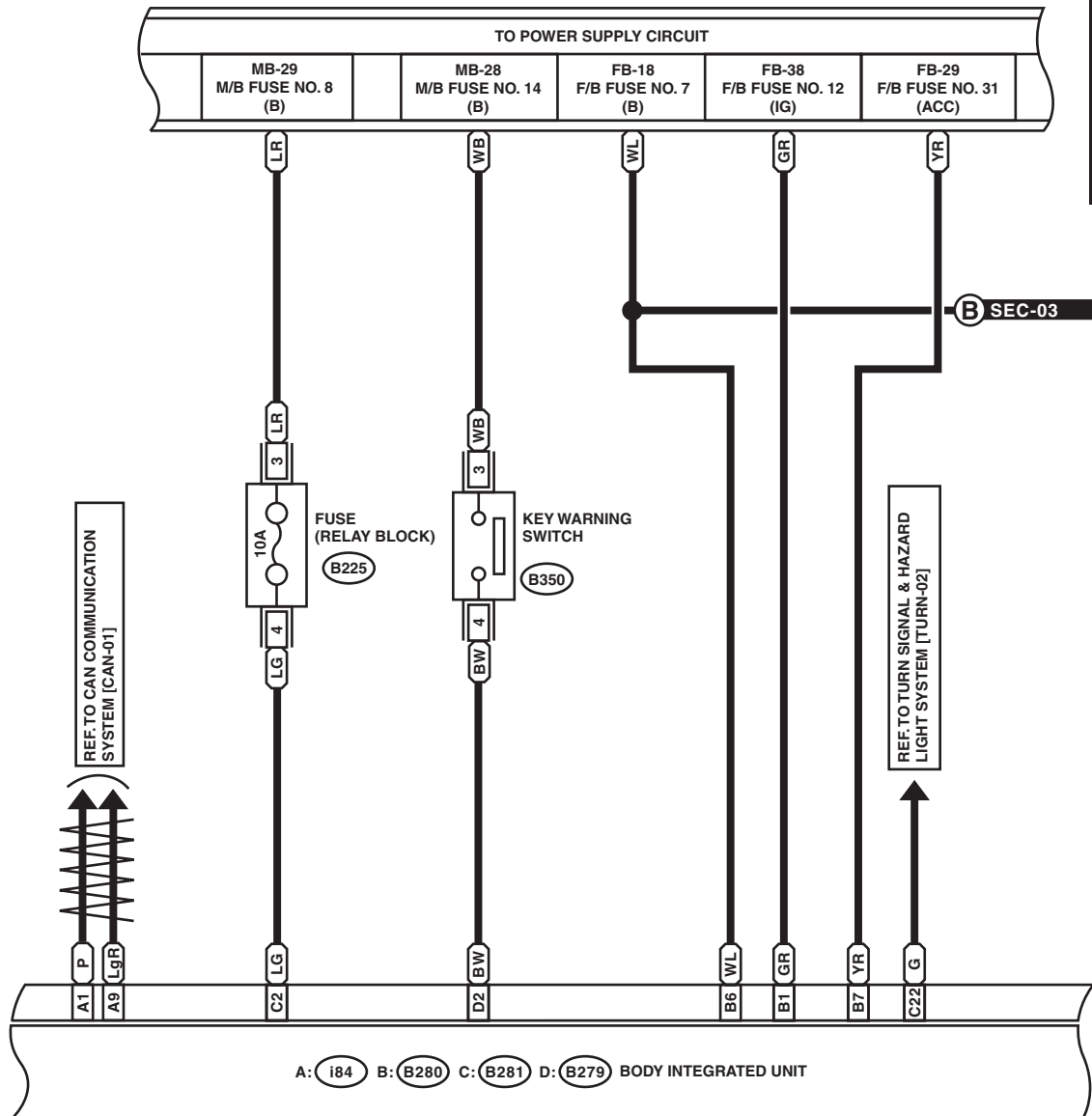
45.Security System

A: WIRING DIAGRAM



SEC-02

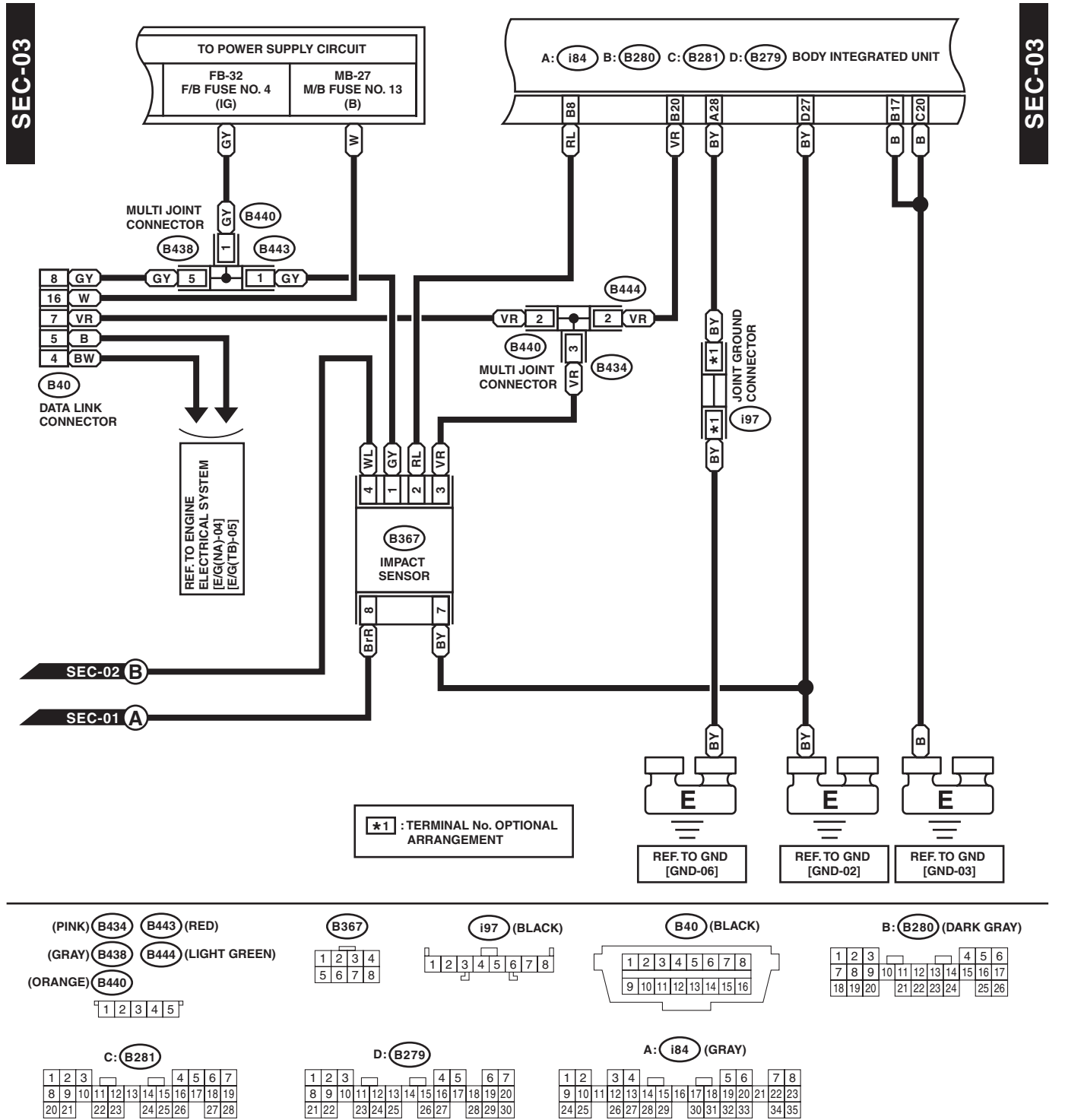
SEC-02



WI-27934

Security System

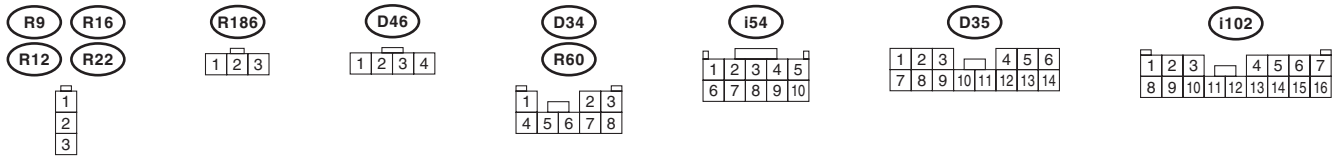
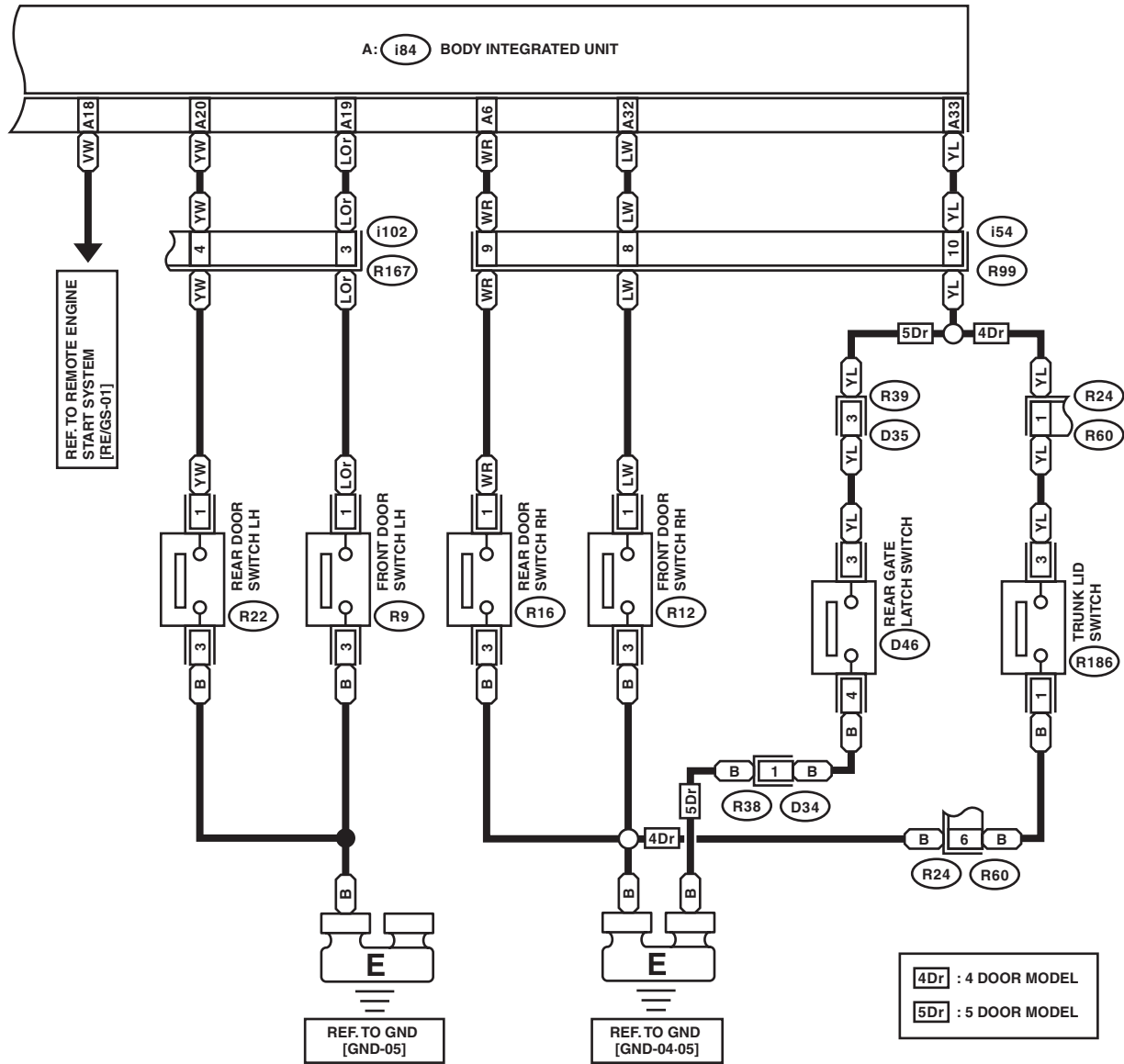
WIRING SYSTEM



WI-27935

SEC-04

SEC-04



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					

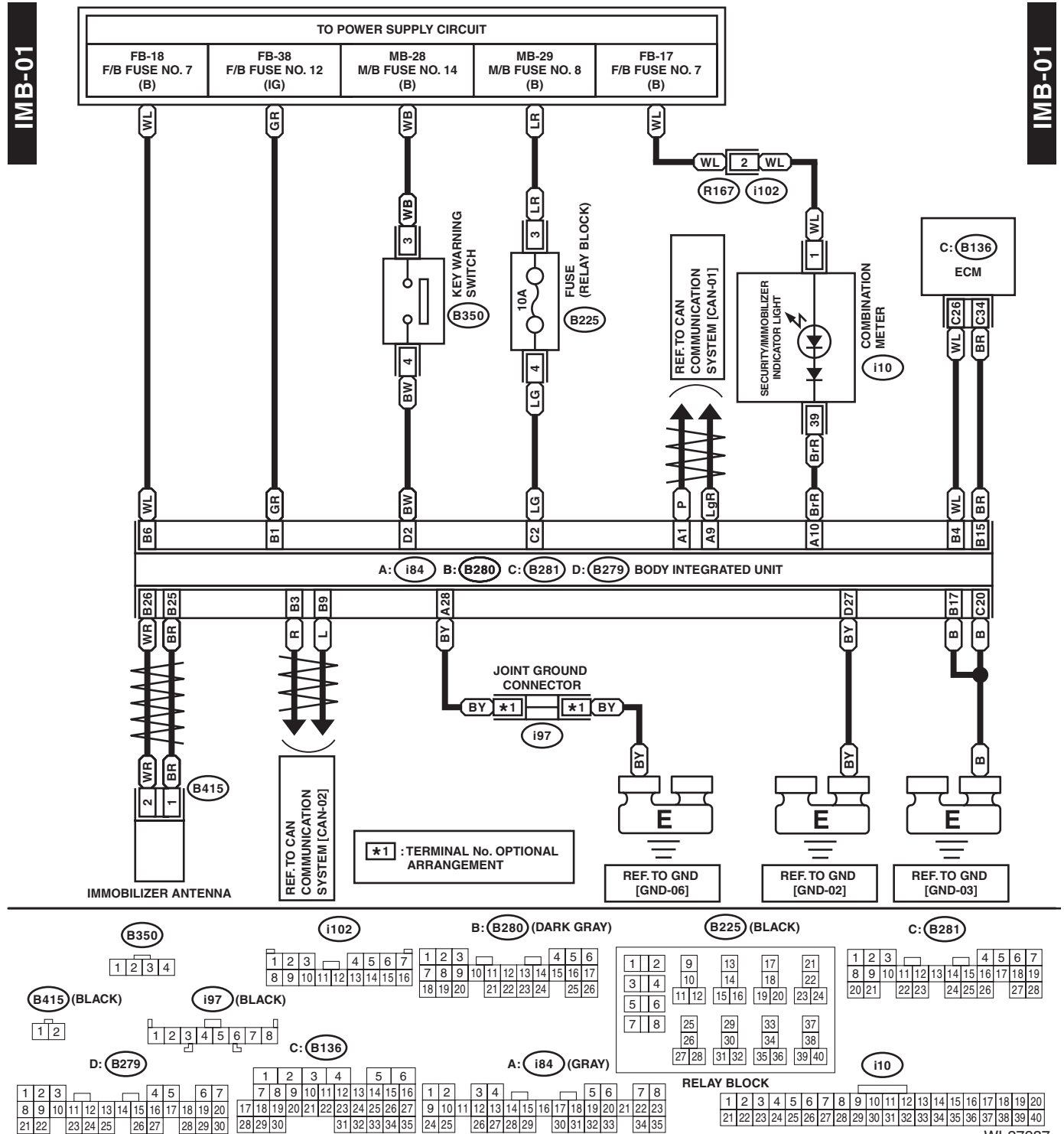
WI-27936

Immobilizer System

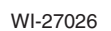
WIRING SYSTEM

46. Immobilizer System

A: WIRING DIAGRAM

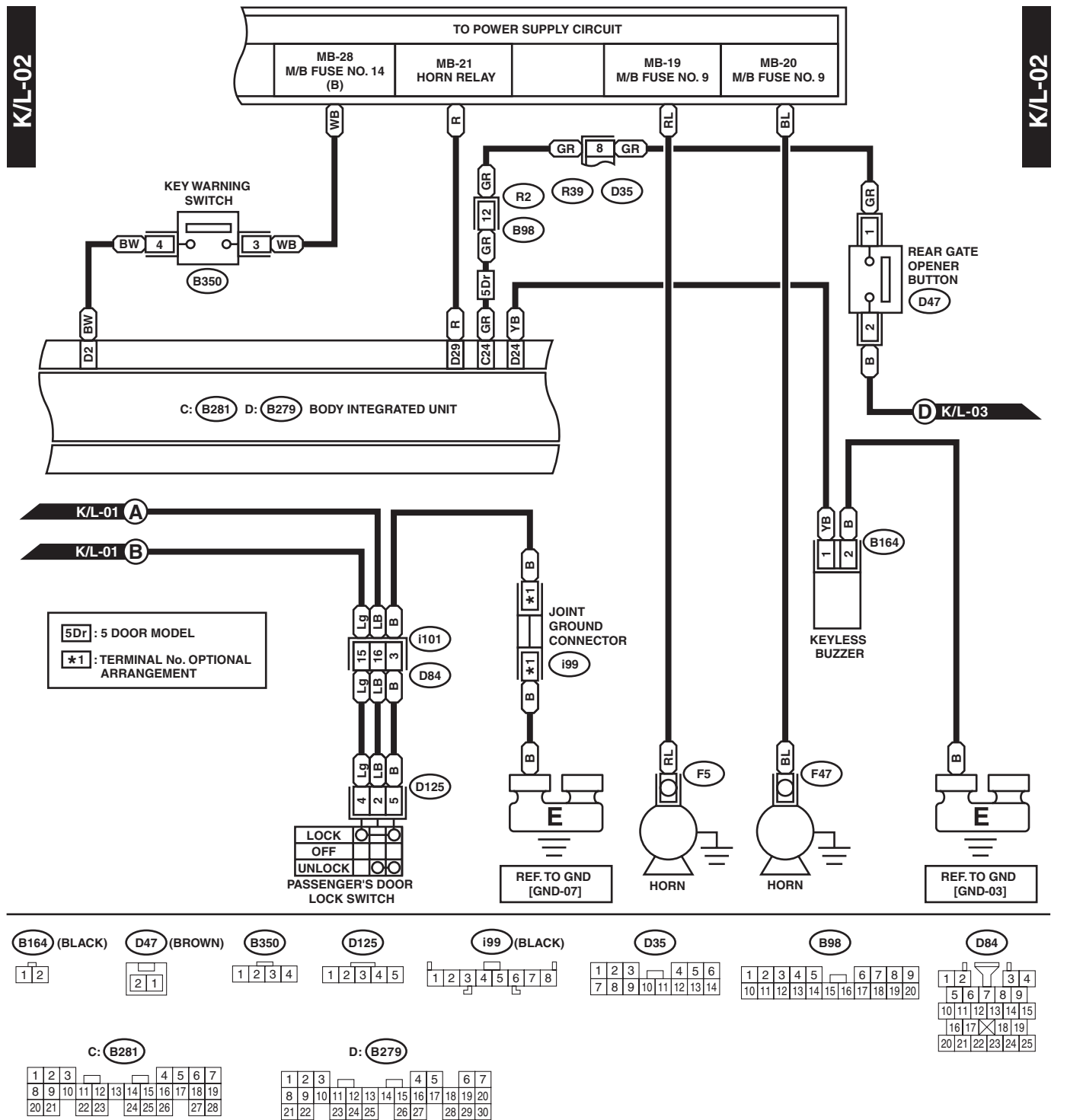


A: WIRING DIAGRAM



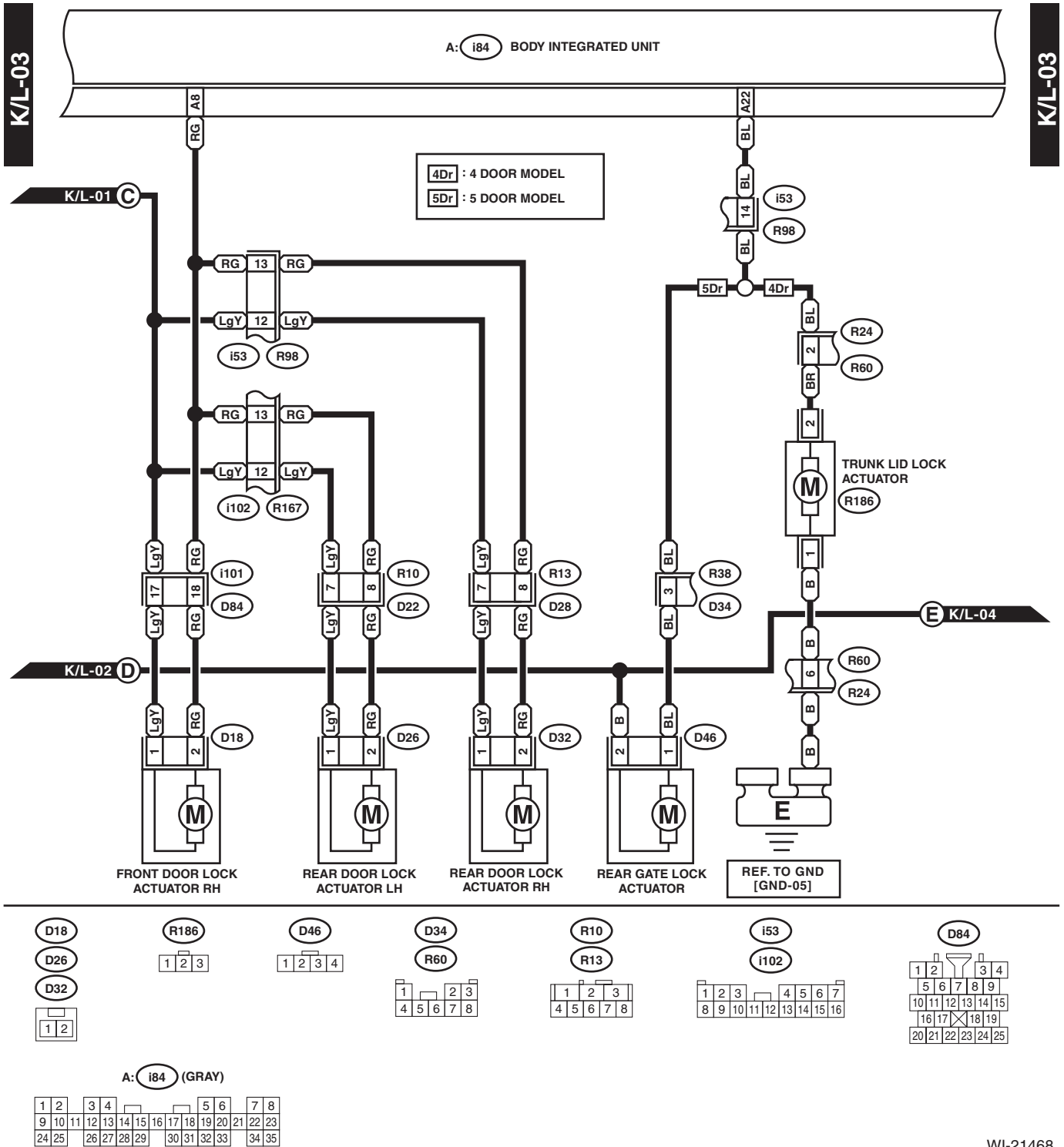
Keyless Entry System

WIRING SYSTEM



Keyless Entry System

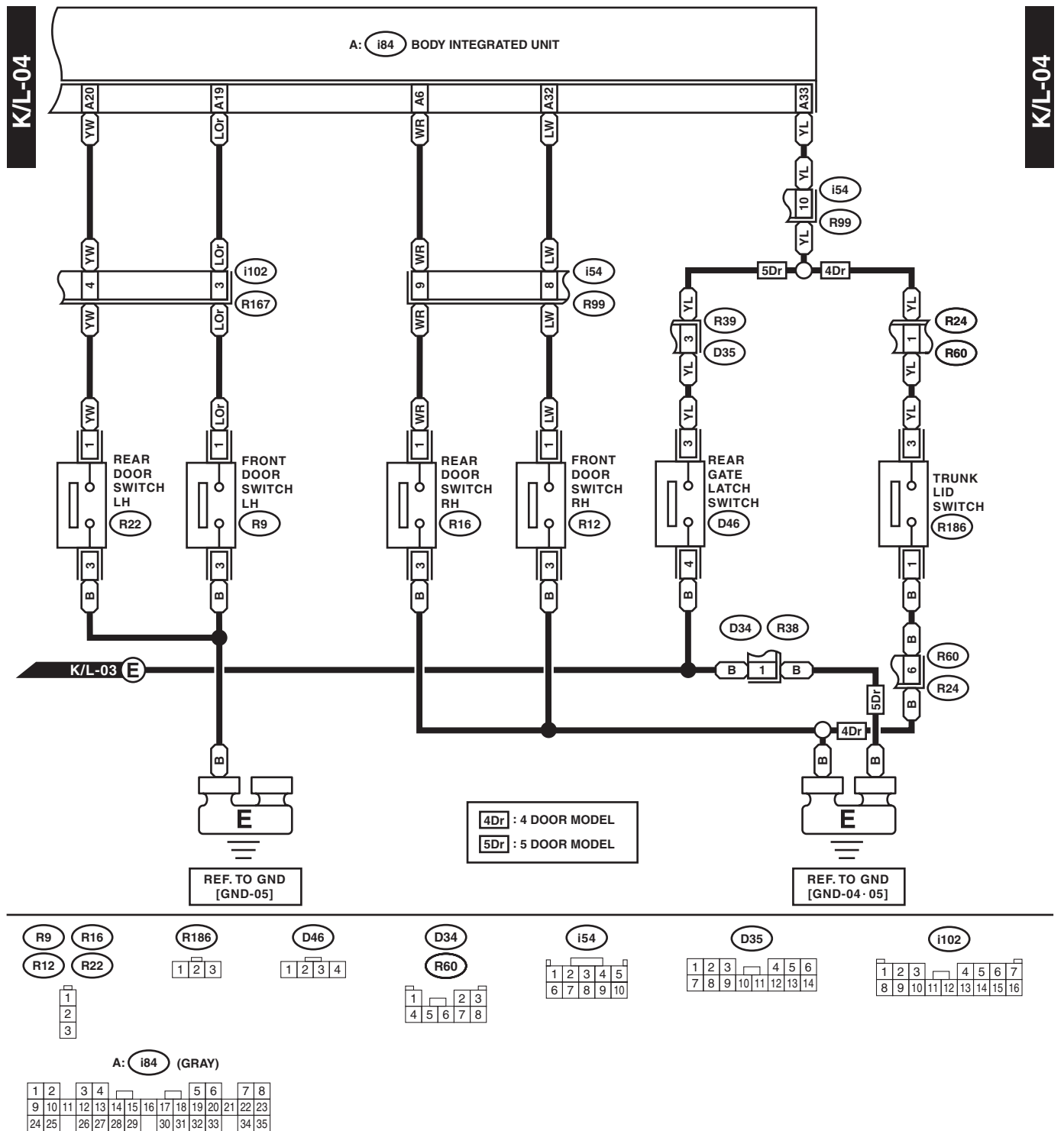
WIRING SYSTEM



WI-21468

Keyless Entry System

WIRING SYSTEM

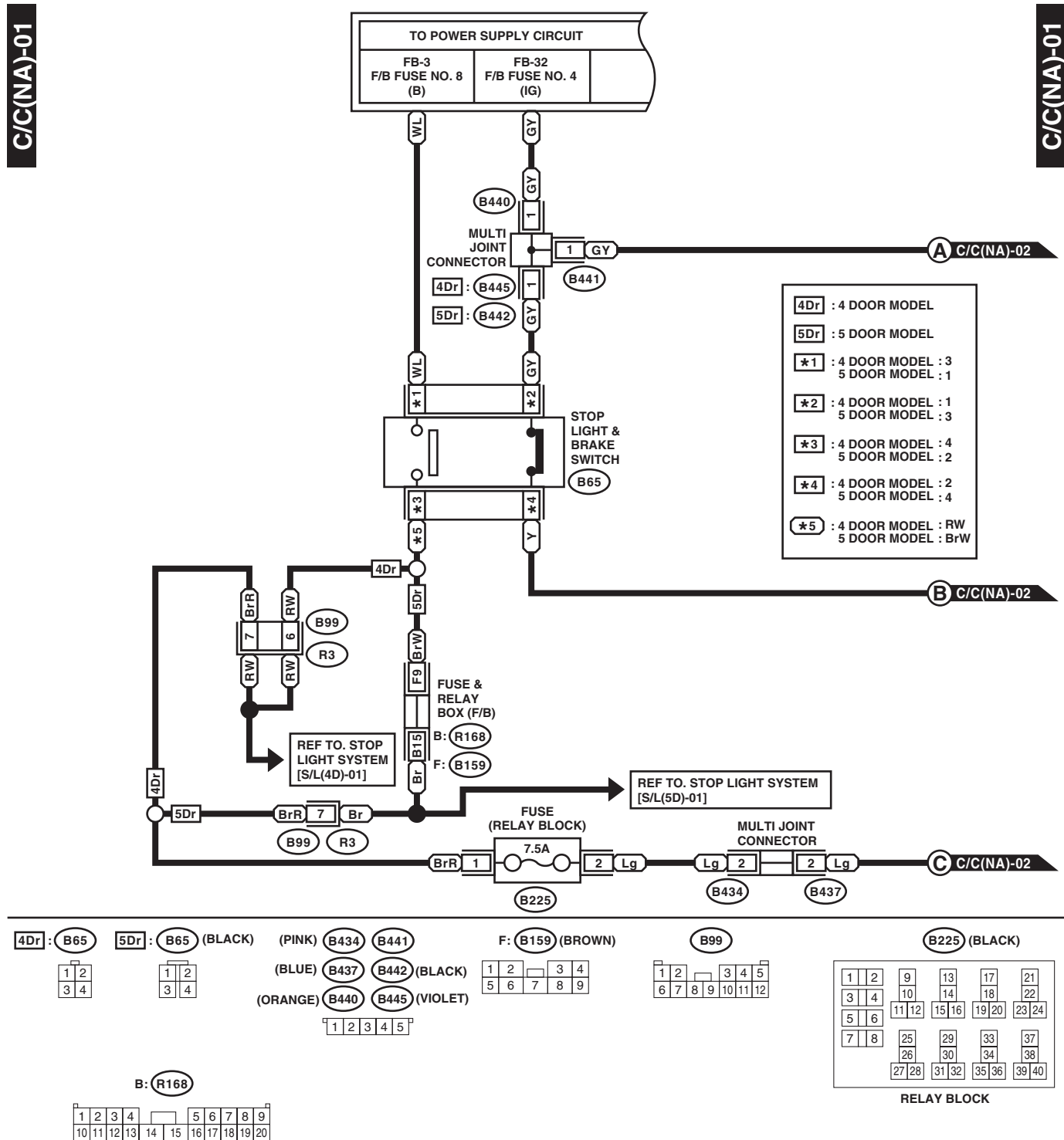


WI-21469

48. Cruise Control System

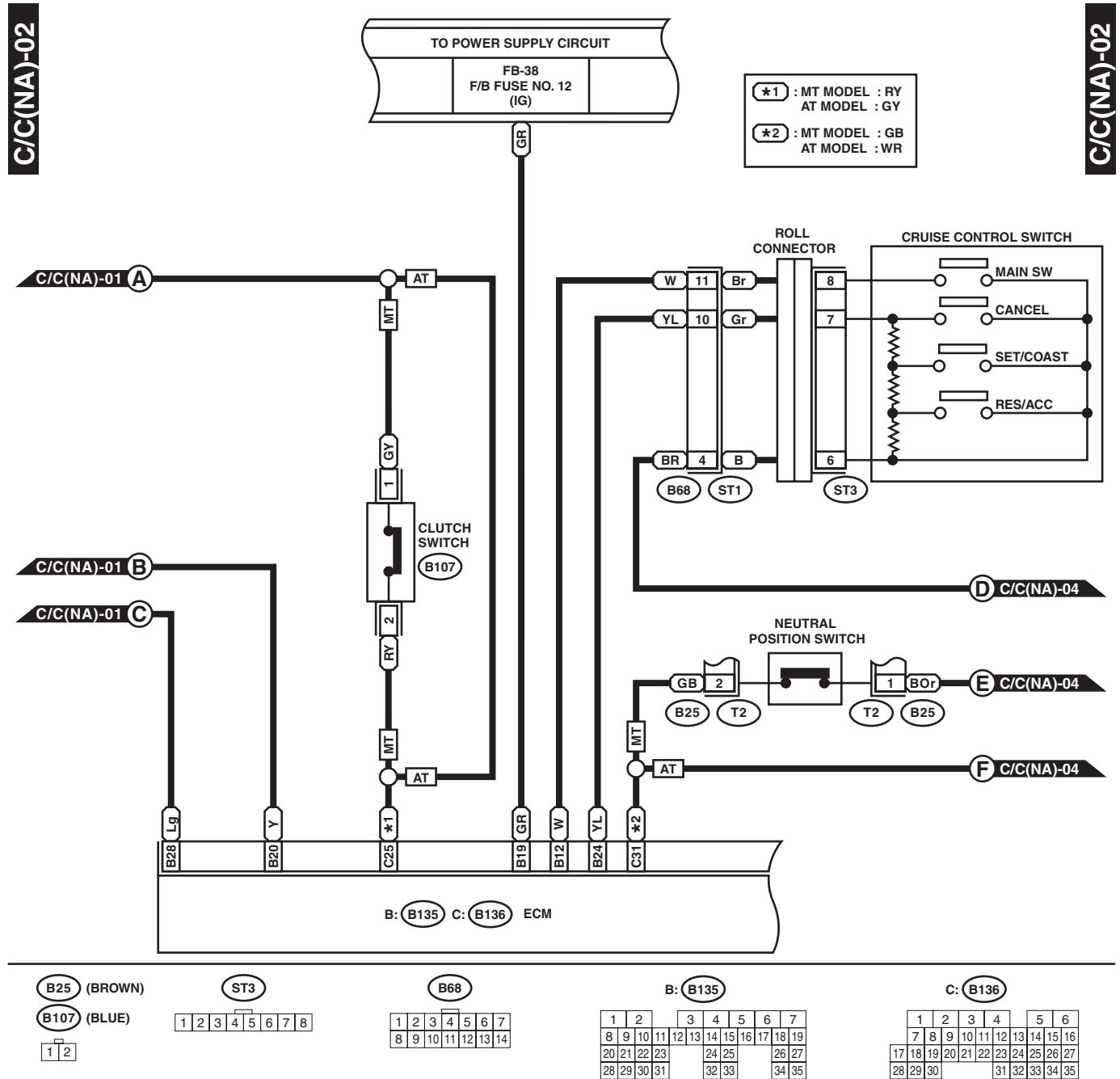
A: WIRING DIAGRAM

1. NON-TURBO MODEL



Cruise Control System

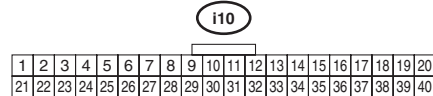
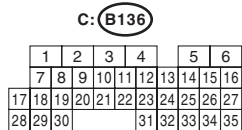
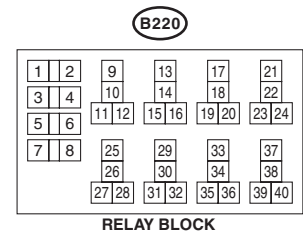
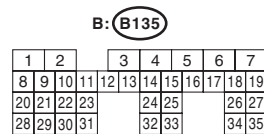
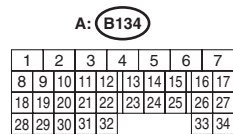
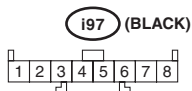
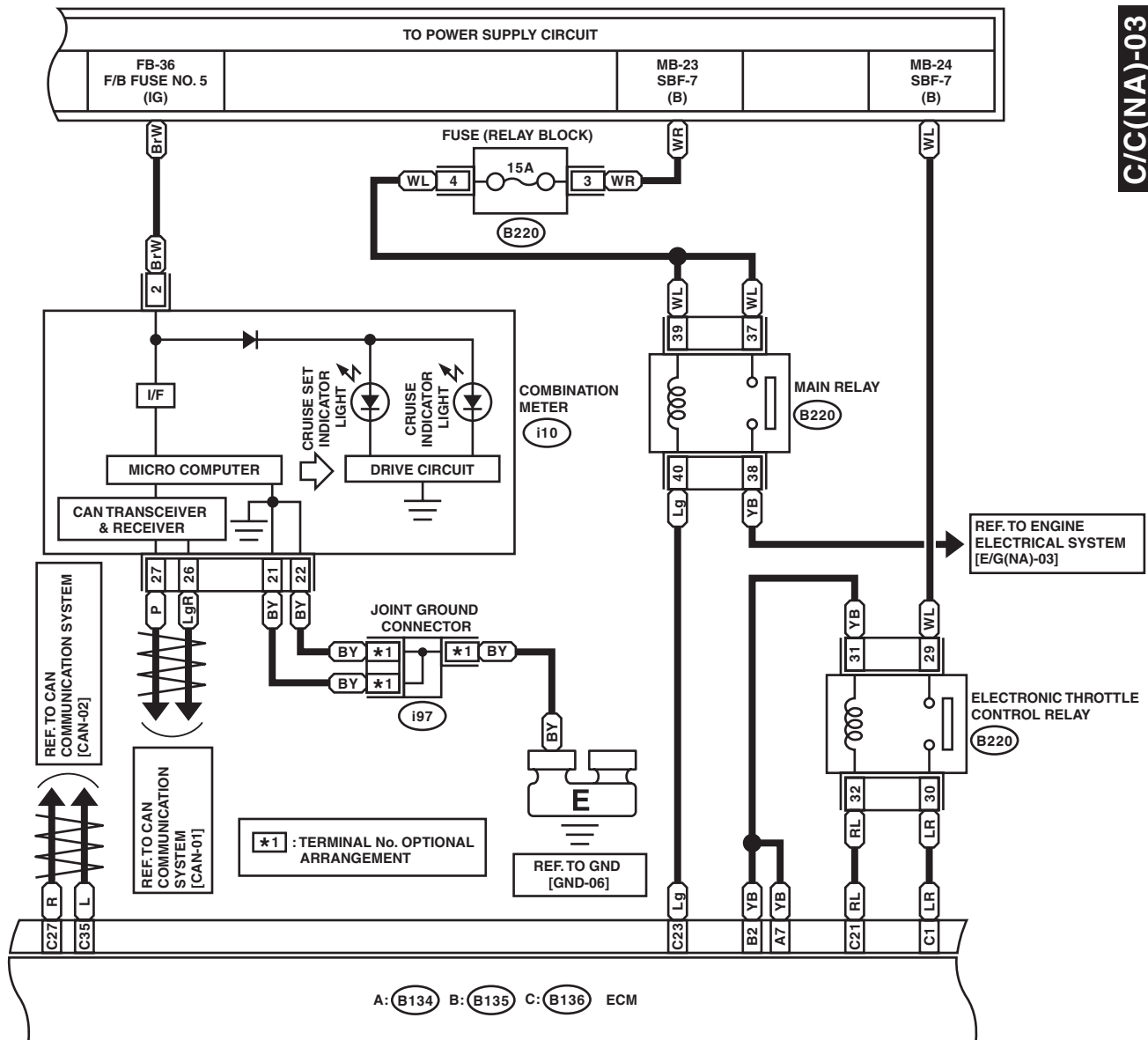
WIRING SYSTEM



WI-27938

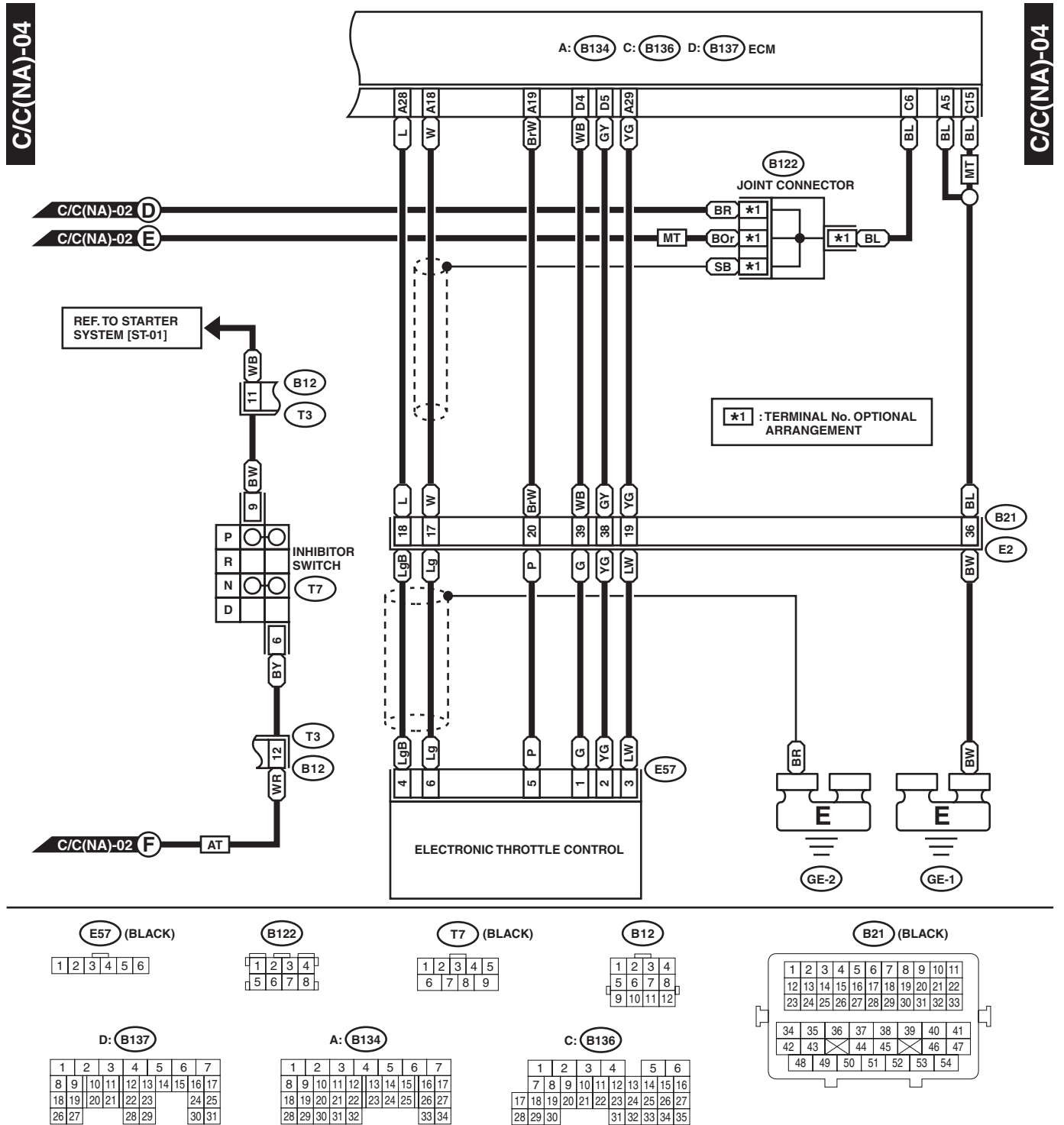
C/C(NA)-03

C/C(NA)-03



Cruise Control System

WIRING SYSTEM

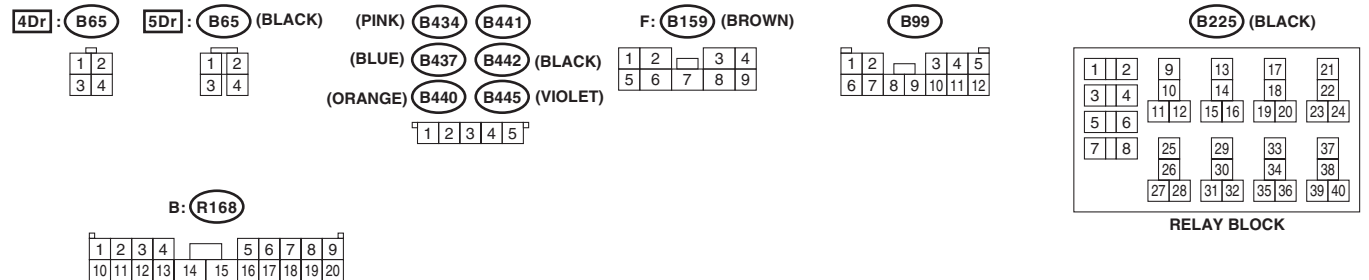
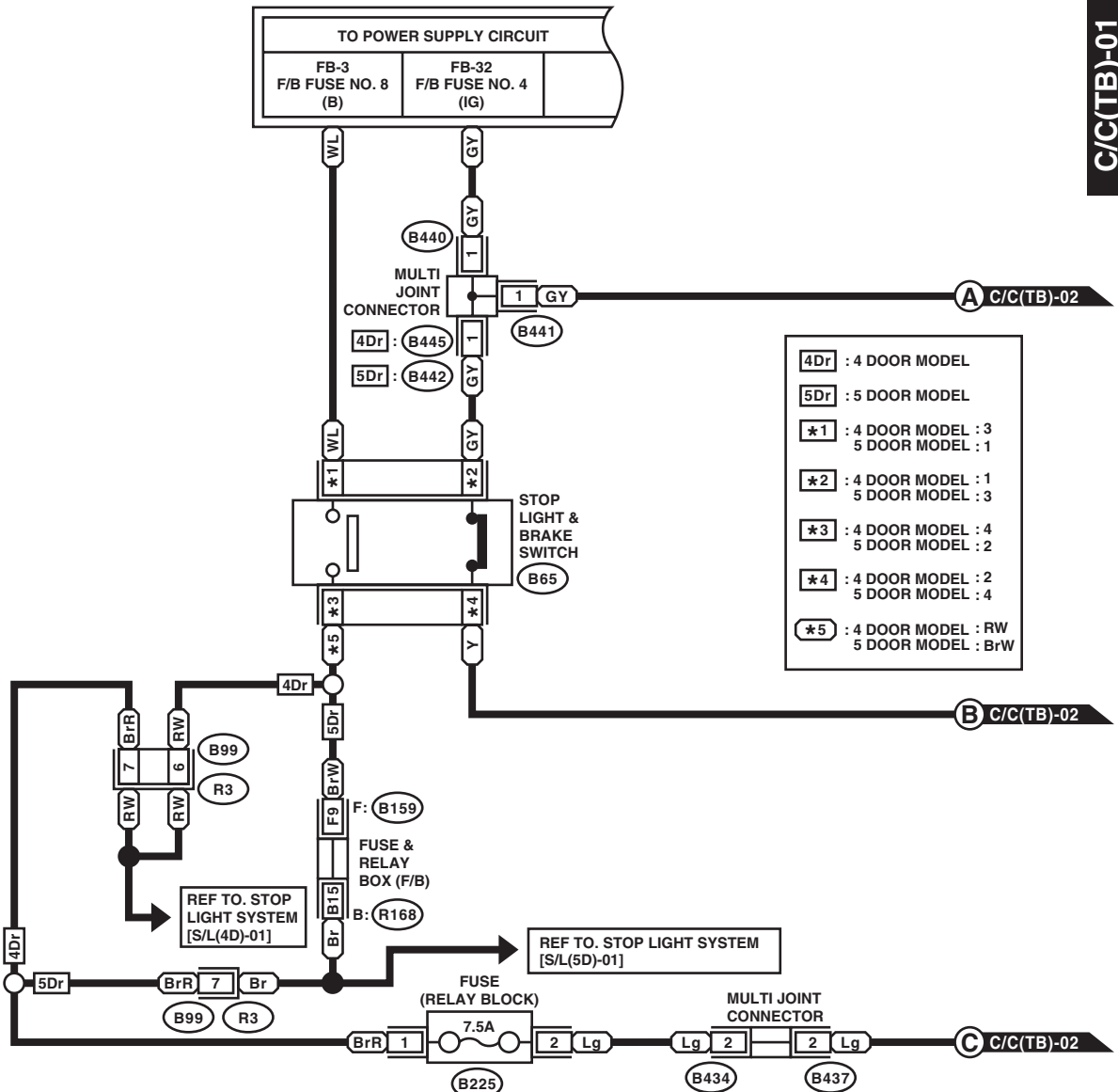


WI-27939

2. TURBO MODEL

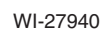
C/C(TB)-01

C/C(TB)-01



WI-22152

WIRING SYSTEM

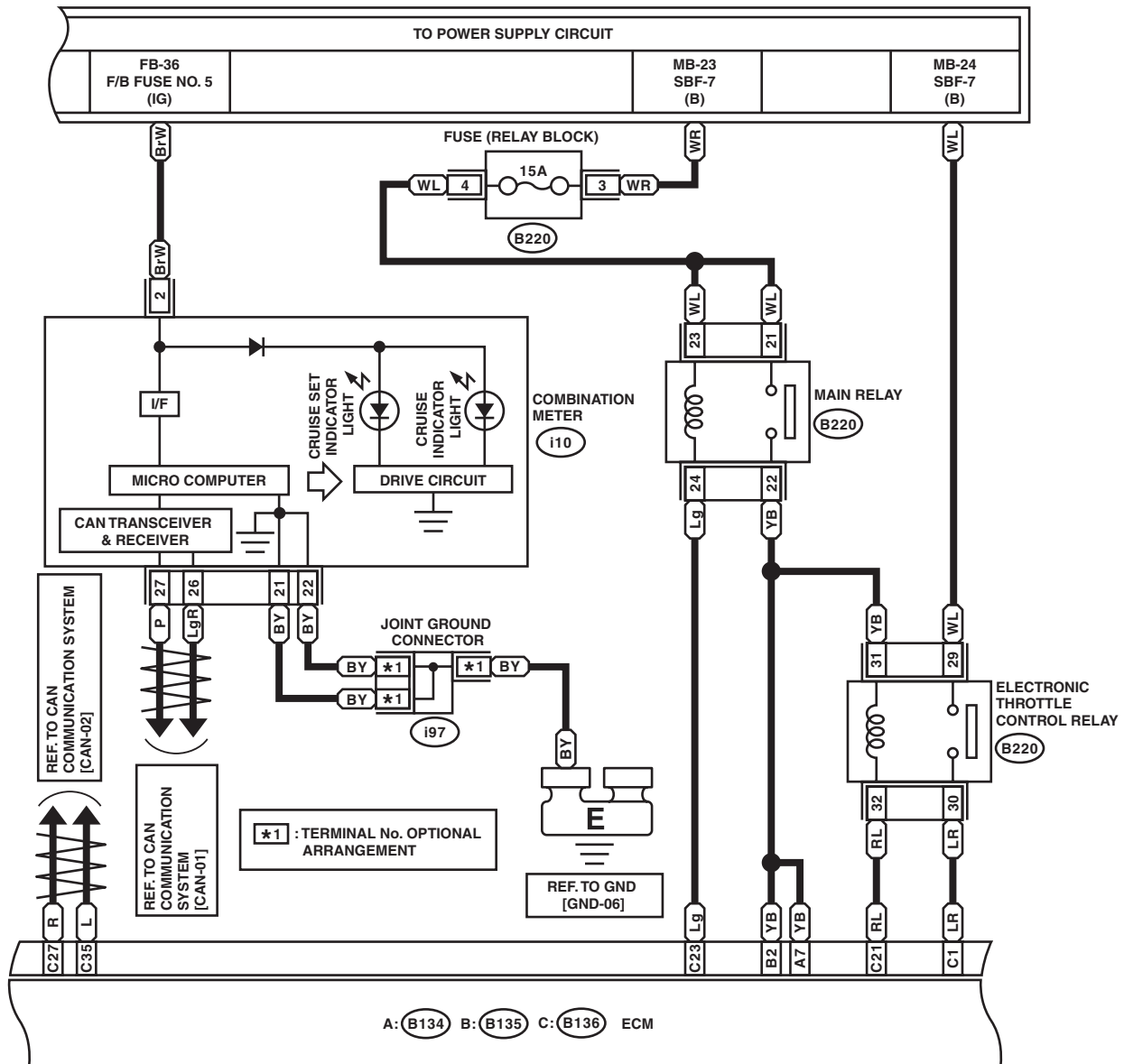


Cruise Control System

WIRING SYSTEM

C/C(TB)-03

C/C(TB)-03



(i97) (BLACK)

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

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	

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)

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-27028

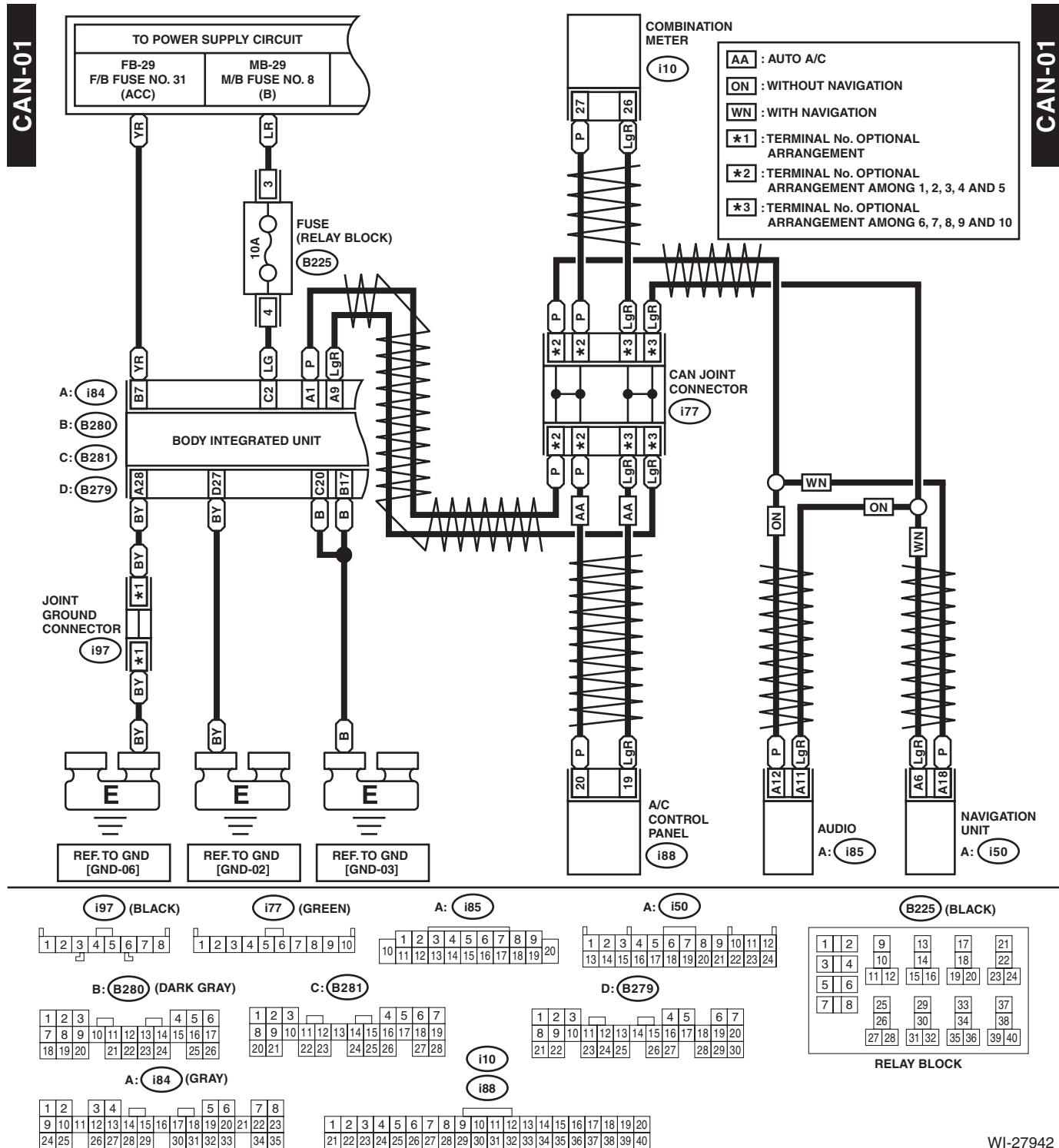
WIRING SYSTEM



49. CAN Communication System

A: WIRING DIAGRAM

1. LOW SPEED CAN

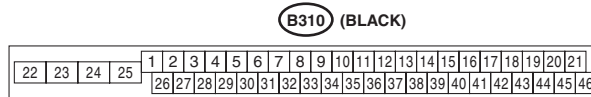
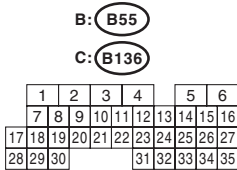
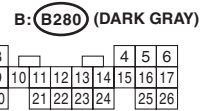
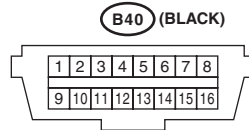
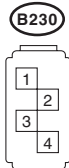
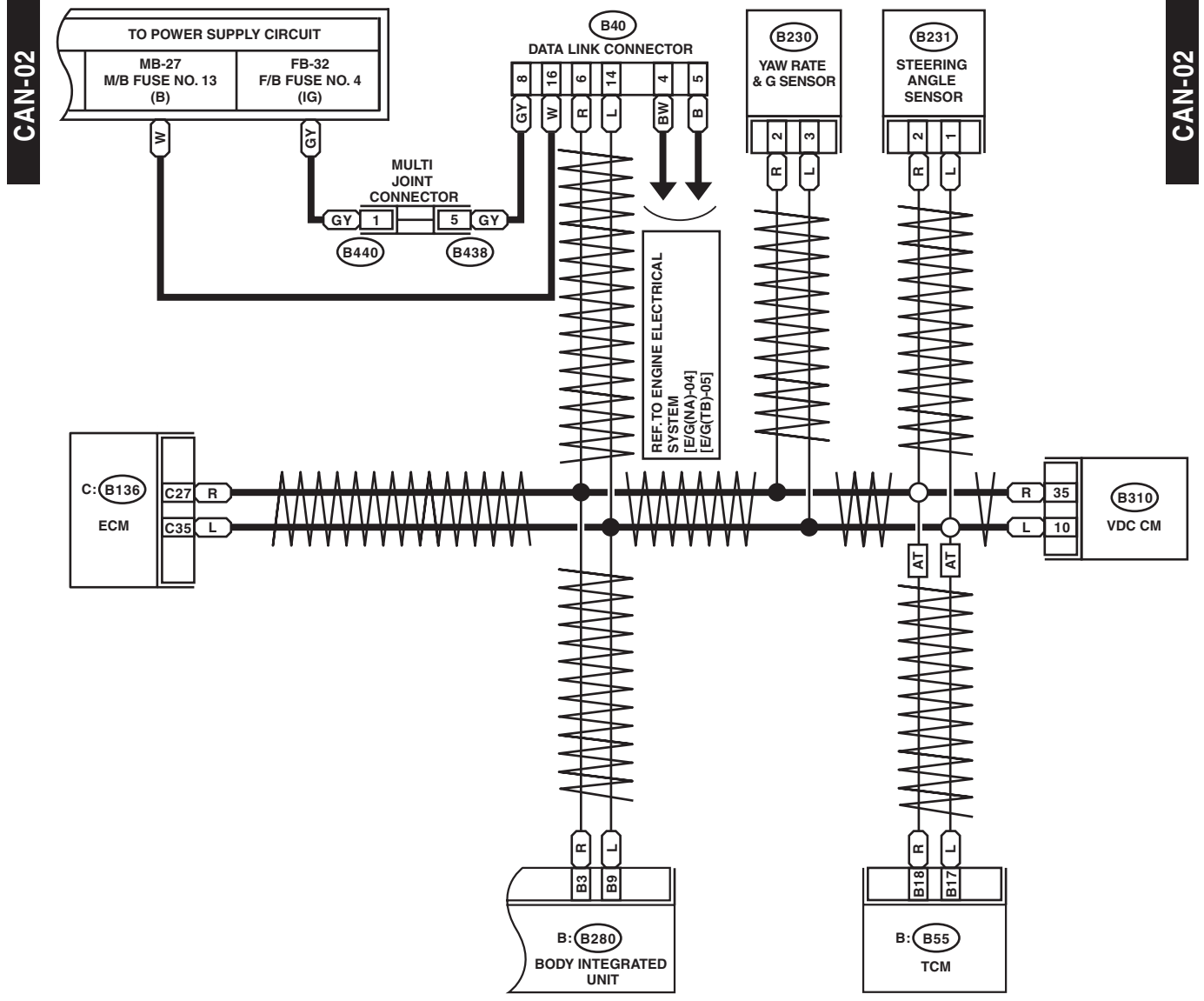


WI-27942

CAN Communication System

WIRING SYSTEM

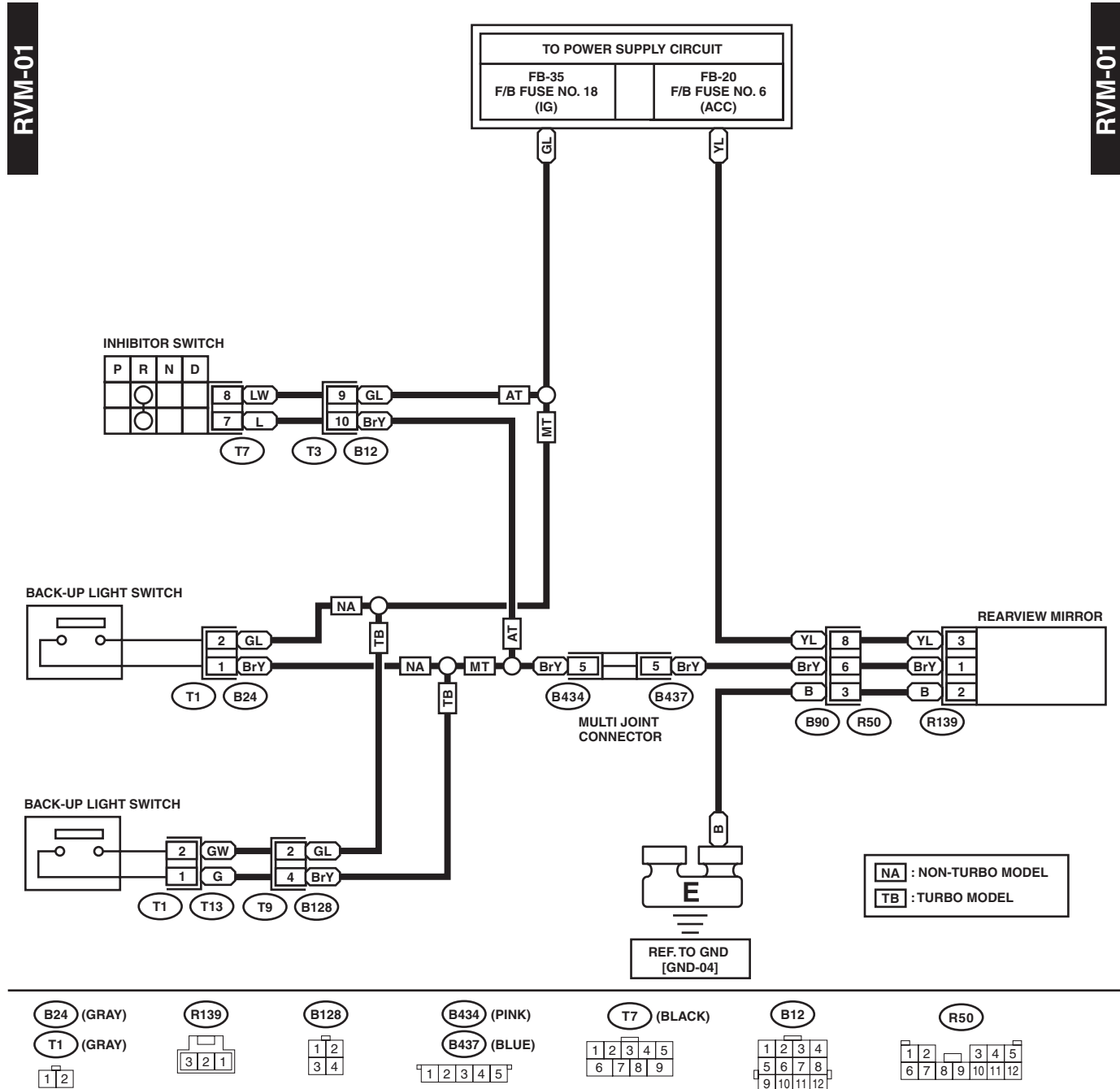
2. HIGH SPEED CAN



WI-27029

50.Rearview Mirror System

A: WIRING DIAGRAM



WI-27030

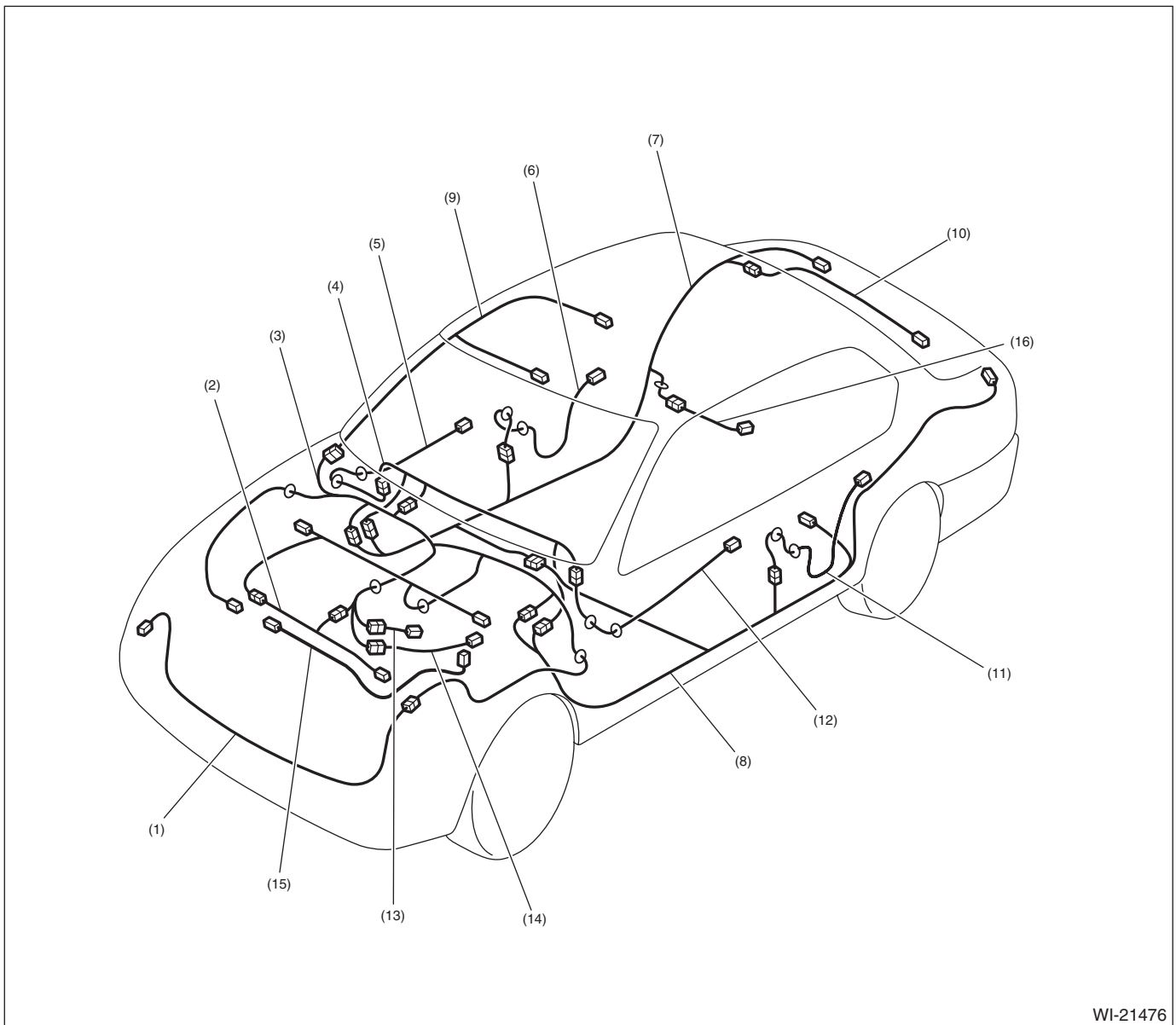
Harness Components Location

WIRING SYSTEM

51.Harness Components Location

A: LOCATION

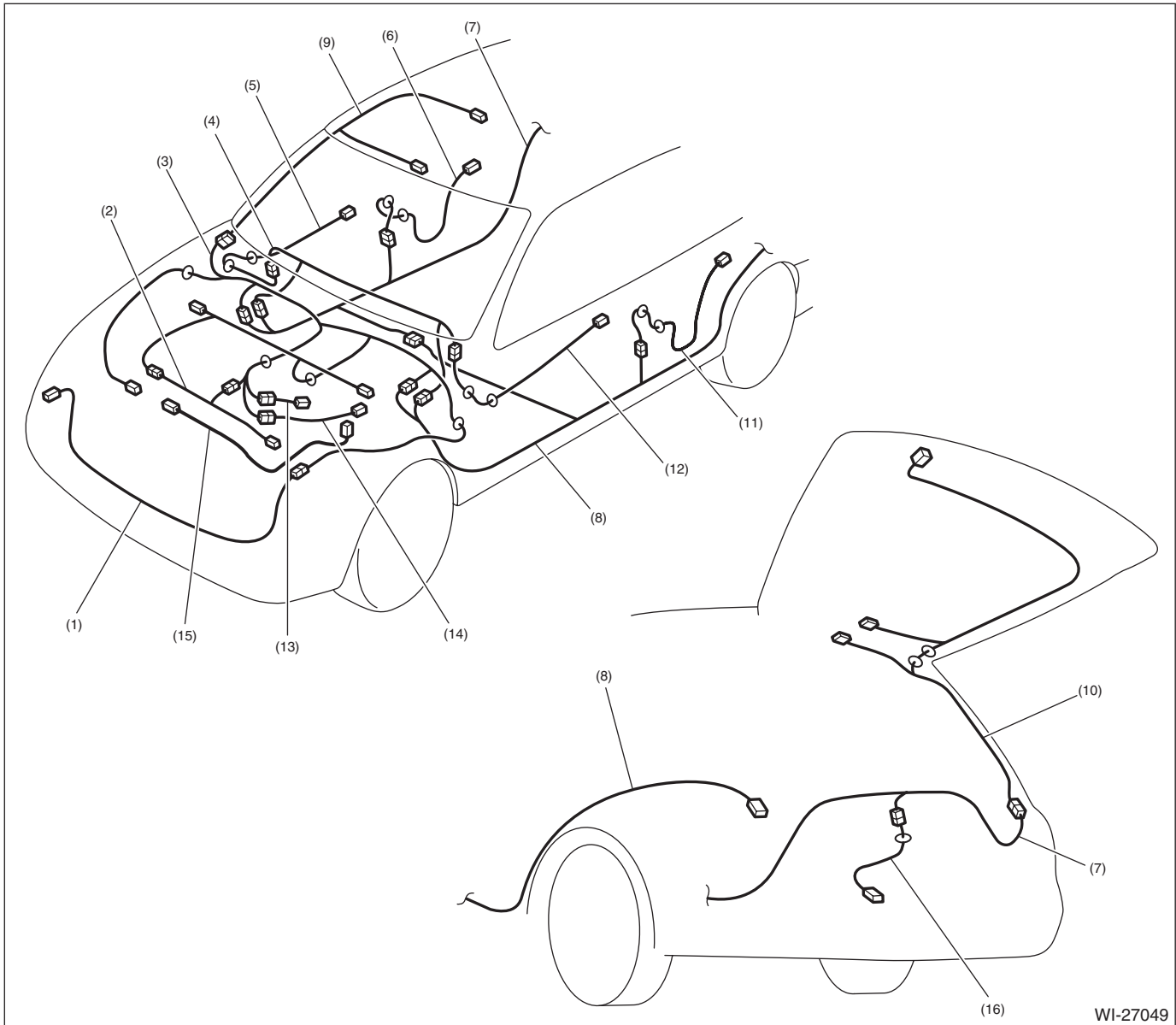
1. 4 DOOR MODEL



WI-21476

- | | | |
|-------------------------------------|----------------------------|------------------------------|
| (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-27049

- | | | |
|-------------------------------------|----------------------------|------------------------------|
| (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

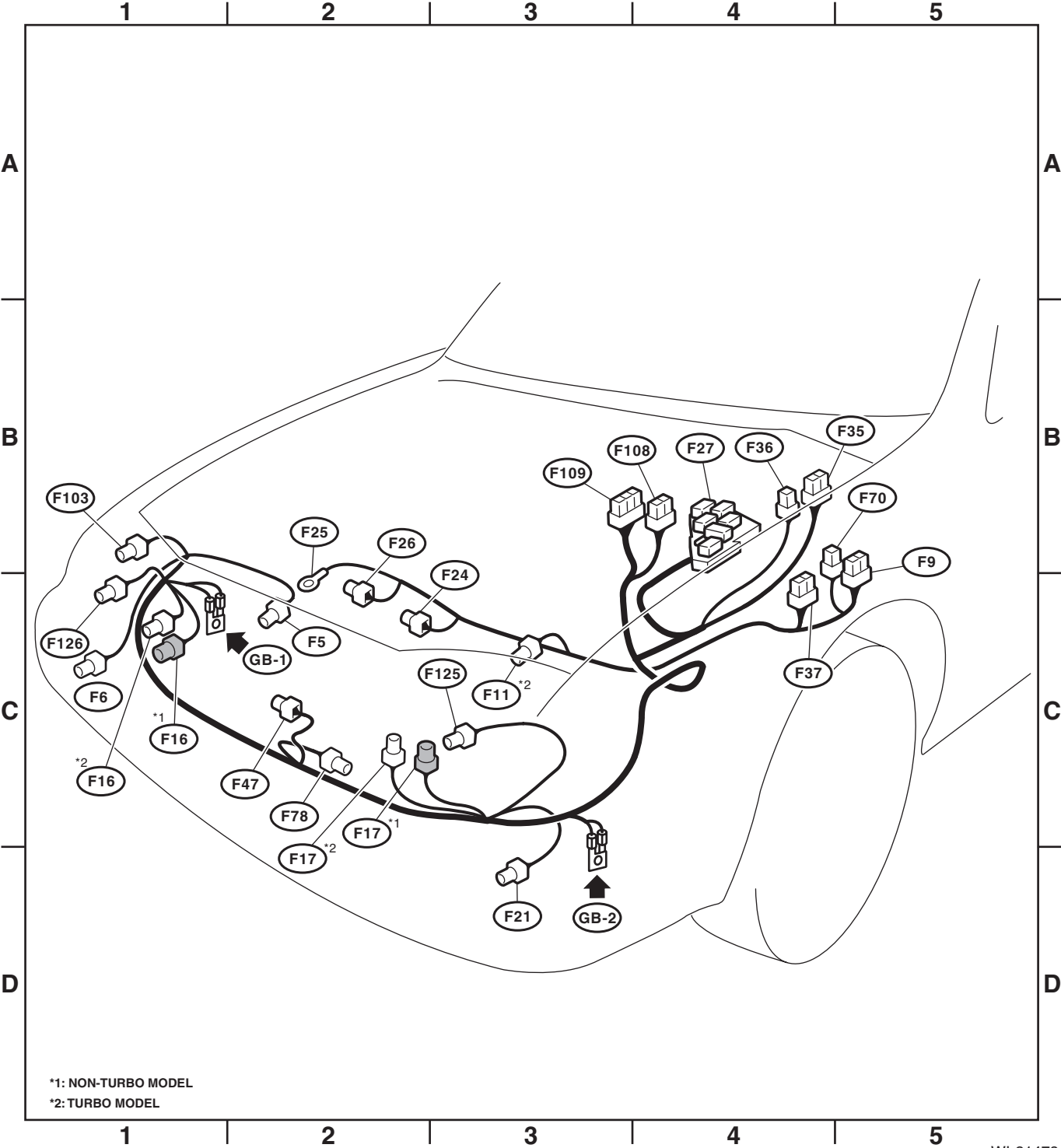
A: LOCATION

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 (turbo model)
		Black	C-1		Sub fan motor (non-turbo model)
F17	2	Gray	C-2		Main fan motor (turbo model)
		Black	C-2		Main fan motor (non-turbo model)
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
F70	2	★	B-4		Main fuse box (M/B)
F78	2	Black	C-2		Ambient sensor
F103	2	Gray	B-1		Daytime running light resistor
F108	18	Gray	B-4	B361	Through joint connector
F109	24	★	B-3	B360	
F125	8	Gray	C-3		Front combination light LH
F126	8	Gray	C-1		Front combination light RH

★ : White or natural color

Front Wiring Harness

WIRING SYSTEM



WI-21478

Bulkhead Wiring Harness (In Engine Compartment)

WIRING SYSTEM

53. Bulkhead Wiring Harness (In Engine Compartment)

A: LOCATION

1. NON-TURBO MODEL

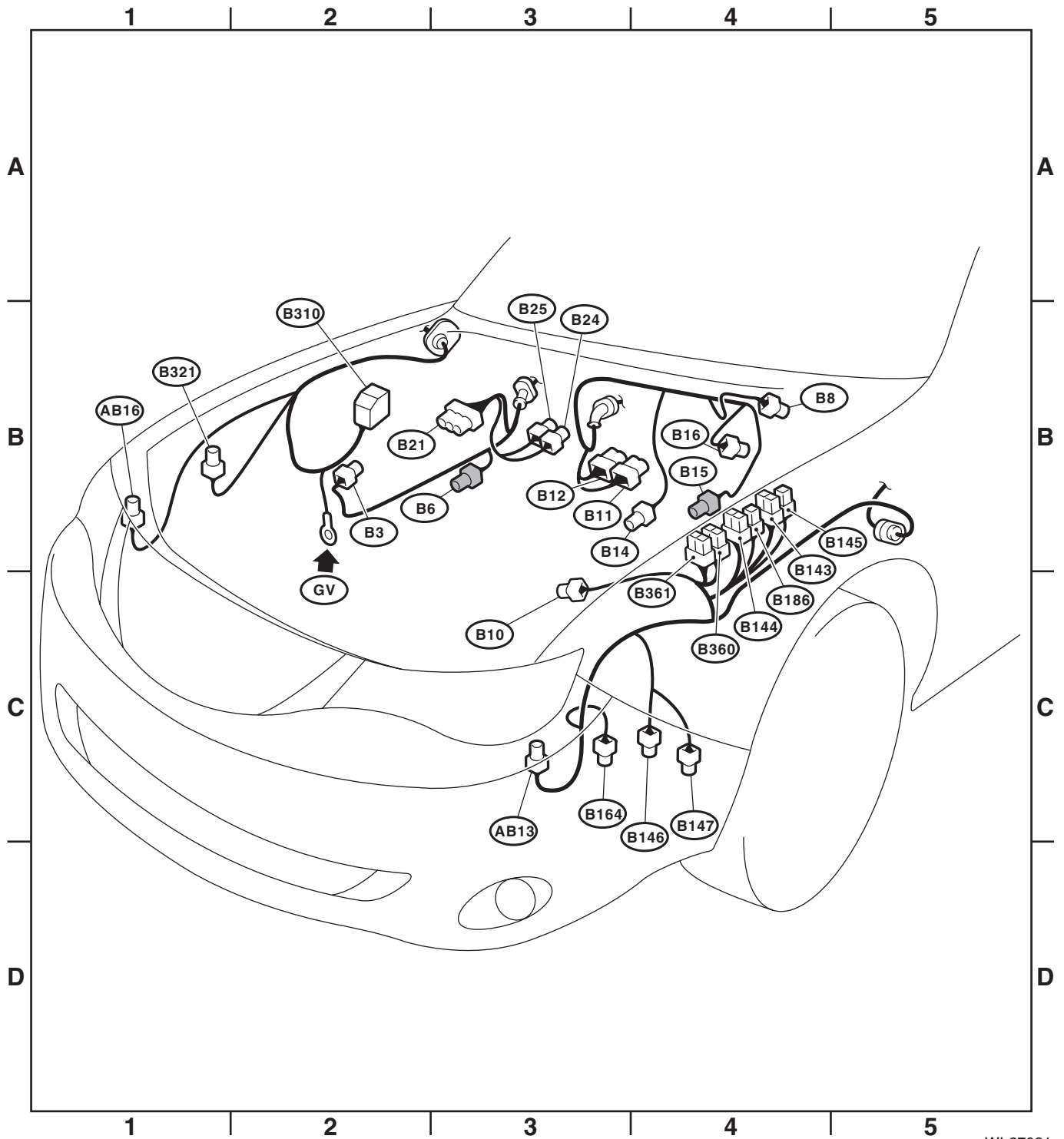
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B3	5	★	B-2		Mass air flow and intake air temperature sensor
B6	2	Gray	B-3		Front ABS wheel speed sensor RH
B8	5	Light gray	B-4		Front wiper motor
B10	4	★	C-3		Pressure switch
B11	20	Gray	B-3	T4	Transmission cord (AT model)
B12	12	★	B-3	T3	
B14	1	Black	B-4		Starter motor
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
B24	2	Gray	B-3	T1	Back-up light switch (MT model)
B25	2	Brown	B-3	T2	Neutral position switch
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	Dark gray	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
B321	2	★	B-1		Hood switch
B360	16	Gray	B-4	F109	Through joint connector
B361	14	★	B-4	F108	

★ : 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-27031

Bulkhead Wiring Harness (In Engine Compartment)

WIRING SYSTEM

2. TURBO MODEL

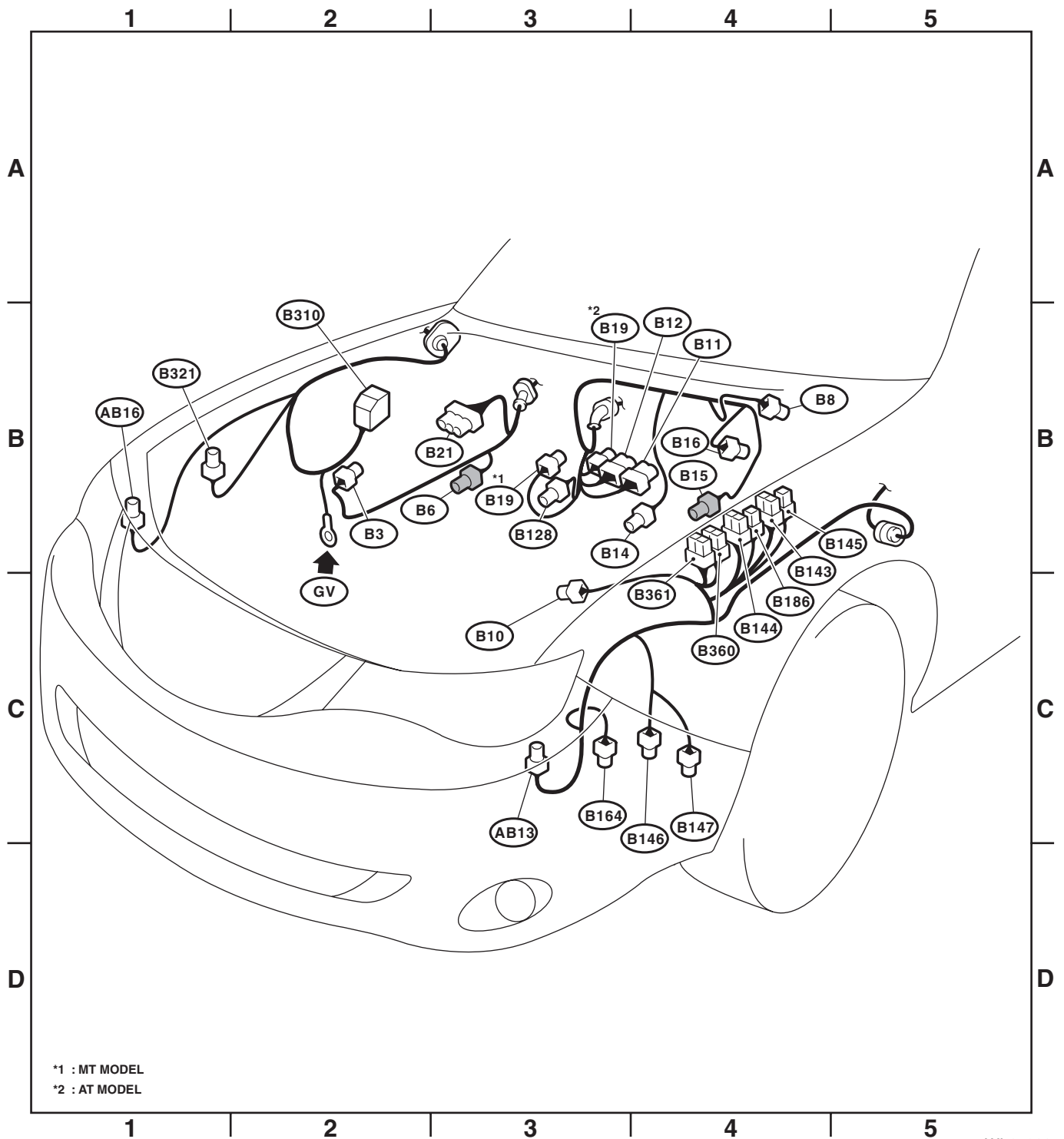
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B3	5	★	B-2		Mass air flow and intake air temperature sensor
B6	2	Gray	B-3		Front ABS wheel speed sensor RH
B8	5	Light gray	B-4		Front wiper motor
B10	4	★	C-3		Pressure switch
B11	20	Gray	B-3	T4	Transmission cord (AT model)
B12	12	★	B-3	T3	
B14	1	Black	B-4		Starter motor
B15	2	Gray	B-4		Front ABS wheel speed sensor LH
B16	2	Gray	B-4		Brake fluid level switch
B19	4	★	B-3	T5	Rear oxygen sensor cord
B21	54	Black	B-3	E2	Engine wiring harness
B128	4	★	B-3	T9	Transmission cord (MT 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	Dark gray	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
B321	2	★	B-1		Hood switch
B360	16	Gray	B-4	F109	Through joint connector
B361	14	★	B-4	F108	

★ : 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-27032

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)
B53	20	★	C-3		Joint connector
B54	35	★	C-3		TCM
B55	35	★	C-3		
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-2		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	8	★	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
B97	12	★	C-5	R1	Rear wiring harness RH
B98	20	★	C-5	R2	
B99	12	★	C-1	R3	Rear wiring harness LH
B106	2	★	C-2		Clutch start switch
B107	2	Blue	C-2		Clutch switch (cruise control)
B117	10	Gray	C-4		AT select lever
B122	8	★	C-4		Joint connector
B123	2	Black	C-1	B124	Key lock
B124	2	Black	C-1	B123	
B134	34	★	C-4		ECM
B135	35	★	C-4		
B136	35	★	C-4		
B137	31	★	C-4		
B138	8	★	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	★	C-4		Intake door actuator

Bulkhead Wiring Harness (In Compartment)

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
B177	2	★	B-5		Wiper deicer
B180	24	★	B-2		Remote engine start CM
B181	2	★	B-2	B182	Short connector
B182	2	★	C-2	B181	
B220	40	★	B-4		Fuse (Relay block)
					A/F, oxygen sensor relay
					Fuel pump 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	★	D-4		Yaw rate & G sensor
B231	4	Black	C-2		Steering angle sensor
B239	6	★	B-3		Air mix door actuator (Auto A/C)
B279	30	★	C-3		Body integrated unit
B280	26	Dark gray	C-3		
B281	28	★	C-3		
B315	6	★	C-3		Accelerator pedal position sensor
B318	4	★	B-1		VDC OFF switch
B350	4	★	C-2		Key warning switch & key lock solenoid
B358	2	★	C-4		AT select lever illumination
B363	2	Green	C-1	B364	Test mode sub connector
B364	2	Green	C-1	B363	
B367	8	★	C-2		Impact sensor
B386	7	★	B-4		Blower motor relay
B415	2	Black	B-2		Immobilizer antenna
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		

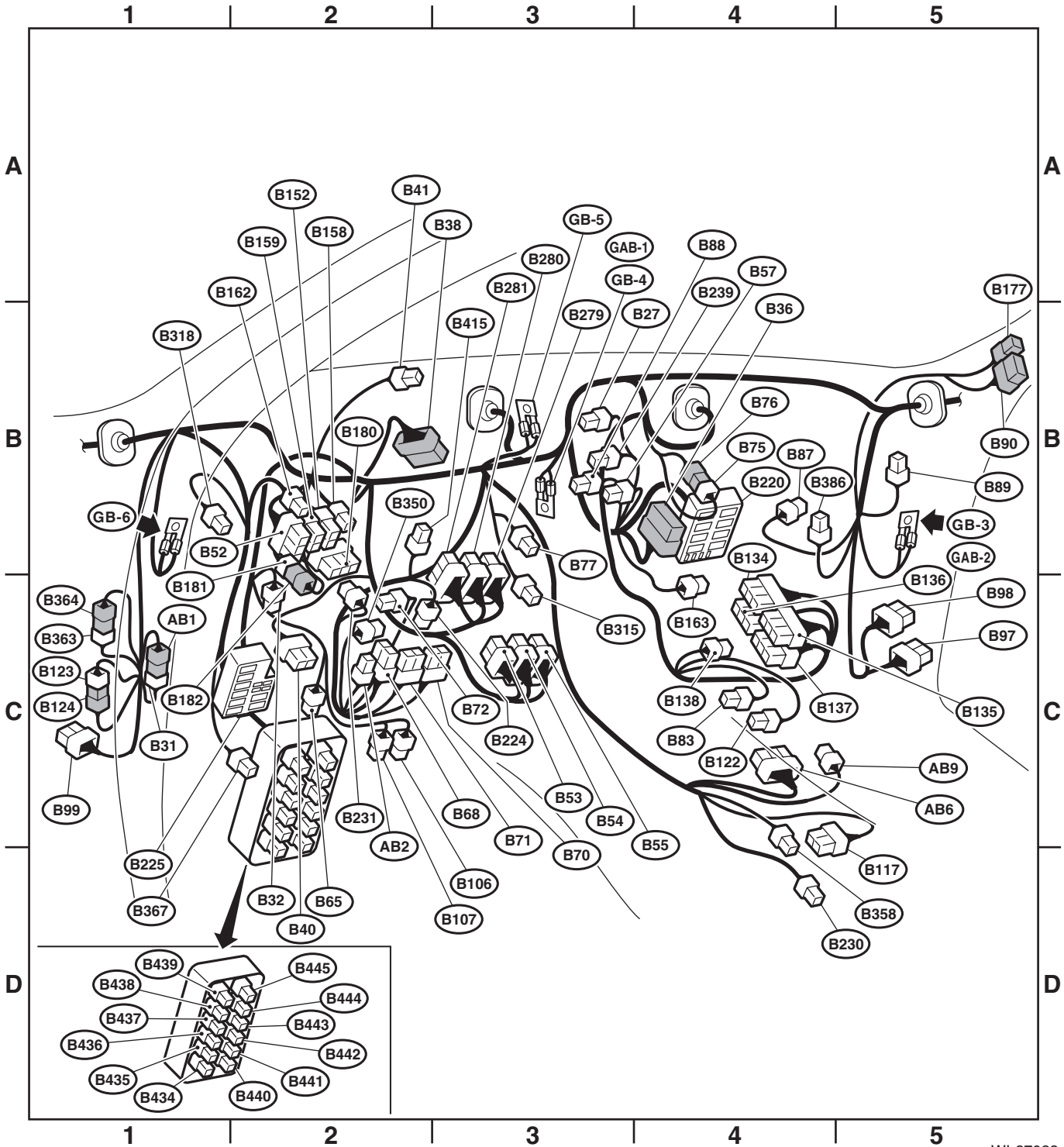
★ : White or natural color

Bulkhead Wiring Harness (In Compartment)

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB1	6	★	C-1	B31	Bulkhead wiring harness
AB2	4	Yellow	C-2	AB7	Driver's airbag module
AB6	30	Yellow	C-4		Airbag CM
AB9	4	Yellow	C-4		Passenger's airbag module

★ : White or natural color



WI-27033

55.Engine Wiring Harness and Transmission Cord

A: LOCATION

1. NON-TURBO MODEL

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
E2	54	Black	A-3	B21	Bulkhead wiring harness
E4	2	Black	B-3		Purge control solenoid valve
E5	2	Dark gray	B-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
E12	4	Dark gray	A-2		Ignition coil & ignitor assembly
E14	2	Gray	B-4		Knock sensor
E15	2	Black	B-4		Camshaft position sensor
E16	2	Dark gray	B-4		Fuel injector No. 2
E17	2	Dark gray	B-4		Fuel injector No. 4
E18	6	Dark gray	A-4		EGR valve
E19	1	★	B-2		Power steering oil pressure switch
E21	3	Black	A-4		Manifold absolute pressure sensor
E22	6	Black	A-1		Front oxygen (A/F) sensor
E23	4	Dark gray	A-1		Rear oxygen sensor
E57	6	Black	A-3		Electronic throttle control
E61	2	Dark gray	A-3		PCV diagnosis connector
E67	2	Blue	A-2		Oil switching solenoid valve RH
E68	2	Blue	B-4		Oil switching solenoid valve LH
E71	1	★	A-2		Variable valve lift diagnosis oil pressure switch RH
E72	1	★	B-4		Variable valve lift diagnosis oil pressure switch LH
E75	2	Black	B-2		Oil temperature sensor
★ : White or natural color					

• MT model

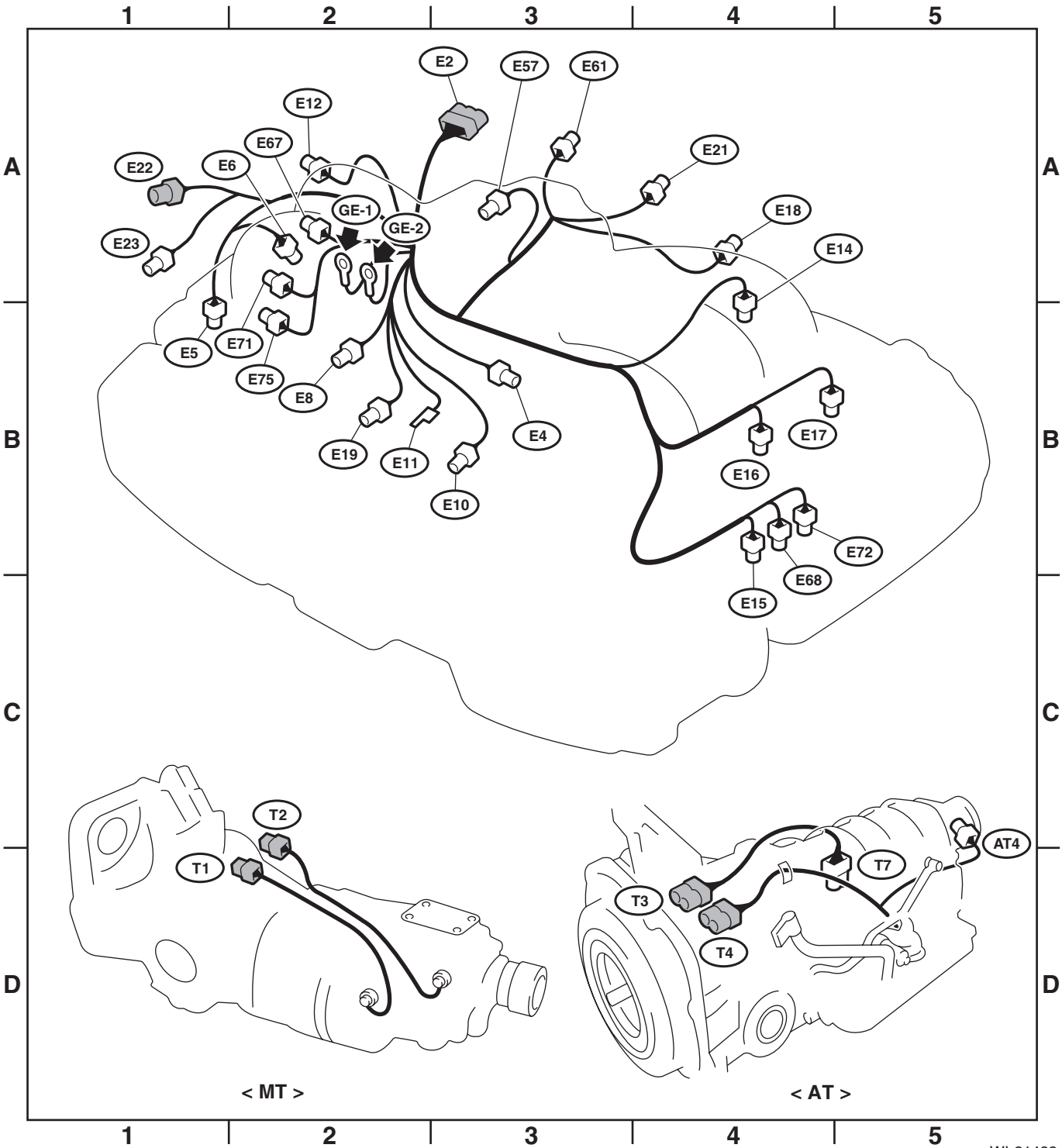
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T1	2	Gray	D-2	B24	Bulkhead wiring harness
T2	2	Brown	D-2	B25	

• AT model

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T3	12	Black	D-4	B12	Bulkhead wiring harness
T4	20	Gray	D-4	B11	
T7	9	Black	D-5		Inhibitor switch
AT4	3	★	C-5		Rear vehicle speed sensor
★ : White or natural color					

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM



WI-21482

Engine Wiring Harness and Transmission Cord

WIRING SYSTEM

2. TURBO MODEL

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
E22	4	Dark gray	B-2		Front oxygen (A/F) sensor
E31	3	★	B-2		Ignition coil No. 1
E32	3	★	B-4		Ignition coil No. 2
E33	3	Black	A-2		Ignition coil No. 3
E34	3	Black	B-4		Ignition coil No. 4
E35	3	Light gray	A-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-1		Oil flow control solenoid valve RH
E40	2	Black	B-4		Secondary air combination valve LH
E41	6	Black	B-2		Secondary air combination valve RH
E51	5	Light gray	B-4		Tumble generator valve ASSY LH
E52	2	Black	A-3		Purge control solenoid valve 2
E55	5	Light gray	A-1		Tumble generator valve assembly RH
E57	6	Black	A-3		Electronic throttle control
E64	2	Blue	A-3		Wastegate control solenoid valve
E80	2	Dark gray	B-2		Leak diagnosis connector

★ : White or natural color

• MT model

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T1	2	Gray	D-2	T13	Transmission cord
T2	2	Brown	D-2	T12	
T5	4	Dark gray	C-1	B19	Bulkhead wiring harness
T6	4	Dark gray	D-2		Rear oxygen sensor
T9	4	Gray	C-1	B128	Bulkhead wiring harness
T12	2	Brown	D-2	T2	Neutral position switch
T13	2	Gray	D-2	T1	Back-up light switch

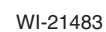
Engine Wiring Harness and Transmission Cord

WIRING SYSTEM

• AT model

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
T3	12	Black	D-4	B12	Bulkhead wiring harness
T4	20	Gray	D-4	B11	
T5	4	Dark gray	C-3	B19	
T6	4	Dark gray	D-5		Rear oxygen sensor
T7	9	Black	C-5		Inhibitor switch
AT4	3	★	C-5		Rear vehicle speed sensor
★ : White or natural color					

WIRING SYSTEM



Instrument Panel Wiring Harness

WIRING SYSTEM

56.Instrument Panel Wiring Harness

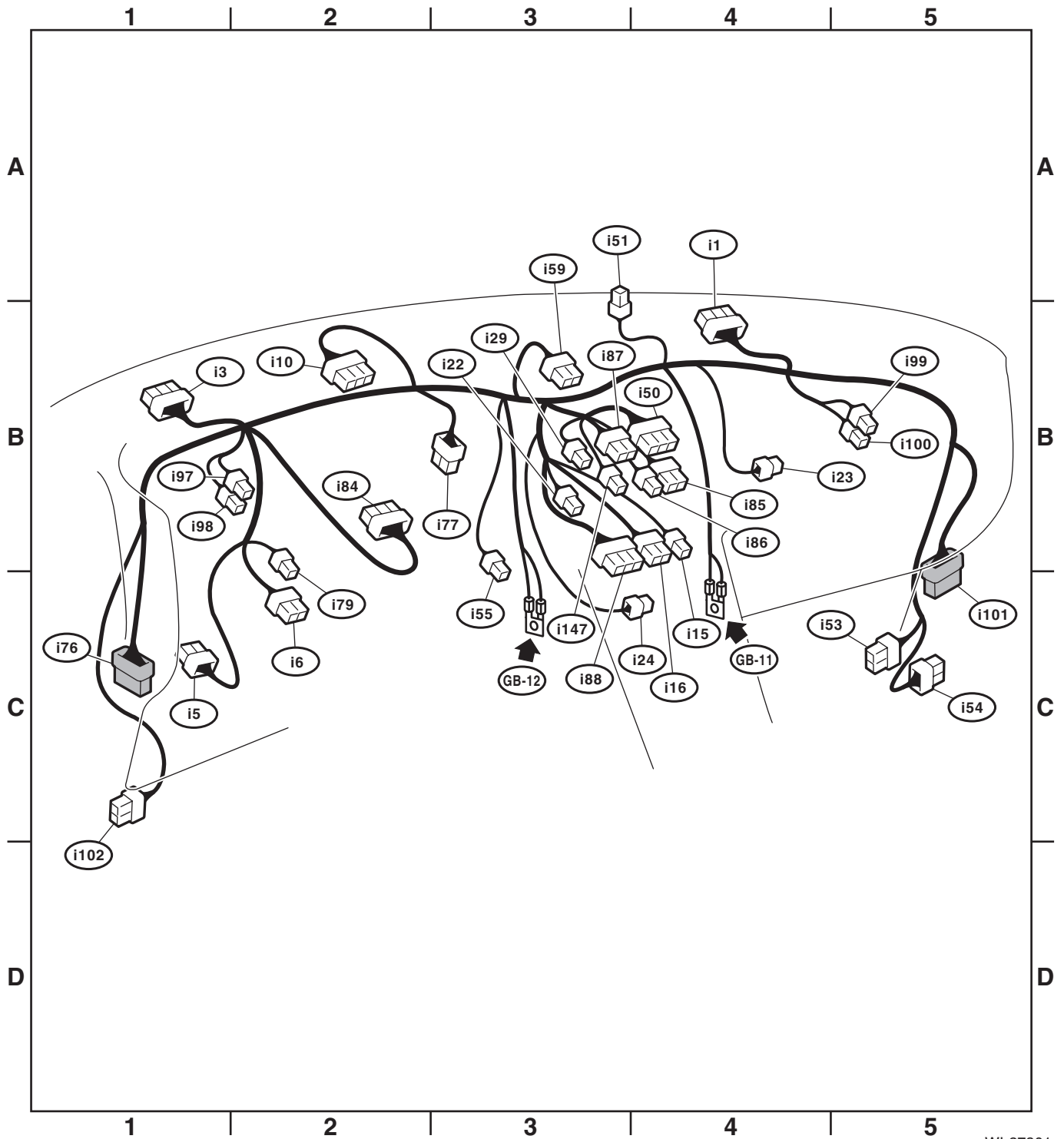
A: LOCATION

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
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
i50	24	★	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	★	B-2		Illumination control switch
i84	35	Gray	B-2		Body integrated unit
i85	20	★	B-4		Audio
i86	8	Black	B-4		Audio (with AUX input terminal)
i87	14	★	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
i147	5	★	B-3		Navigation unit

★ White or natural color

Instrument Panel Wiring Harness

WIRING SYSTEM



WI-27301

Rear 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	Black	C-3		Parking brake switch
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
R41	4	★	C-3		Seat heater LH
R42	4	★	B-3		Seat heater switch RH
R43	4	Blue	B-3		Seat heater switch LH
R44	4	★	B-3		Seat heater RH
R47	3	Black	B-4		Fuel tank pressure sensor
R50	12	★	B-1	B90	Bulkhead wiring harness
R52	3	★	A-3		Room light
R55	10	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 ASSY
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	Gray	B-4		Rear ABS wheel speed sensor RH
R73	2	Gray	B-4		Rear ABS wheel speed sensor LH
R81	12	★	C-3	R82	Rear wiring harness RH
R82	12	★	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)
R211	12	★	B-4		TPMS CM
R284	6	★	B-3		AUX input terminal

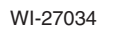
★ : White or natural color

Rear Wiring Harness

WIRING SYSTEM

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
AB17	24	Yellow	C-2		Airbag CM
AB18	24	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



58. Door Cord

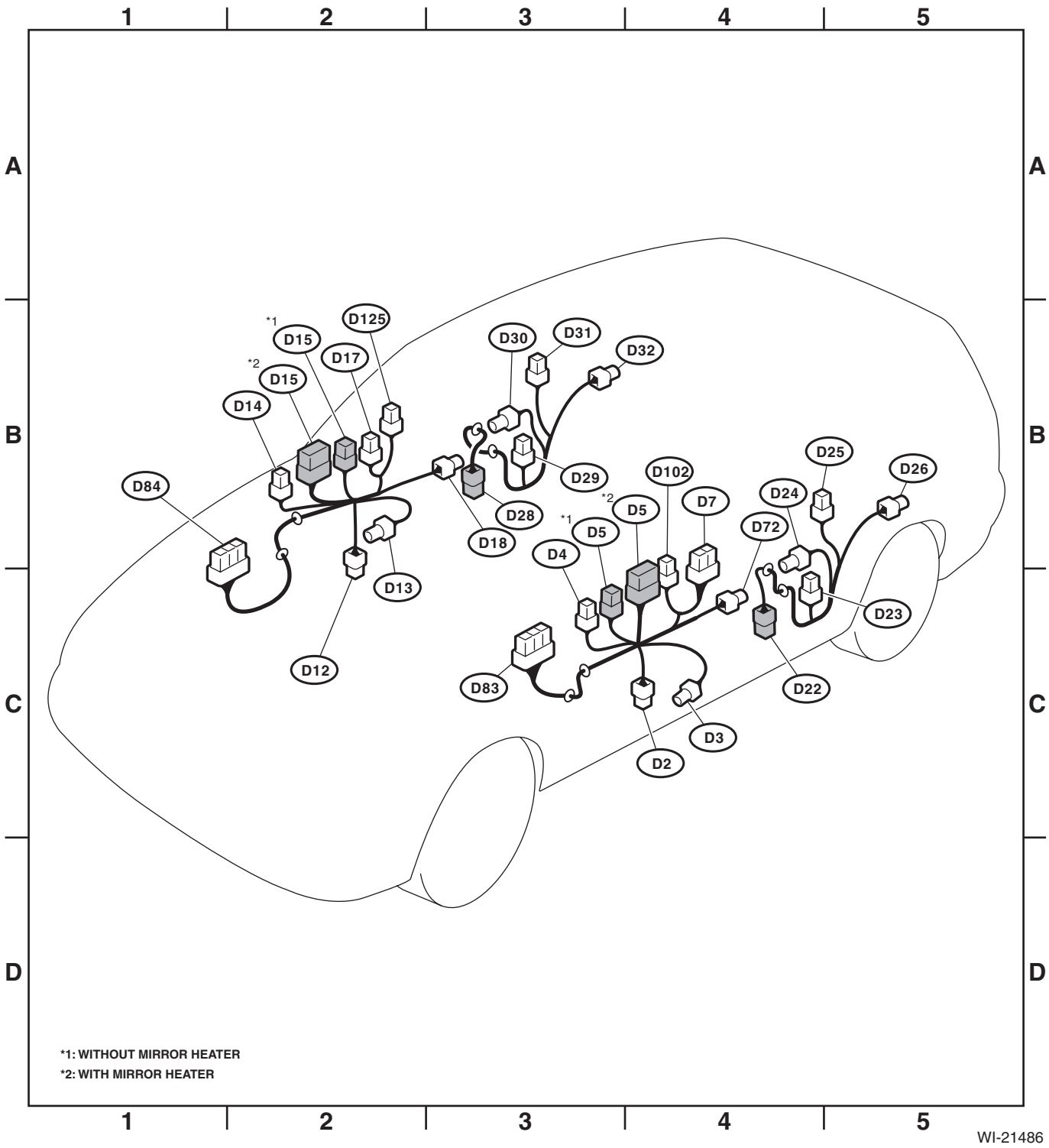
A: LOCATION

Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D2	2	★	C-4		Front door speaker LH
D3	6	★	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	★	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	★	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	★	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-21486

59.Rear Wiring Harness and Trunk Lid Cord

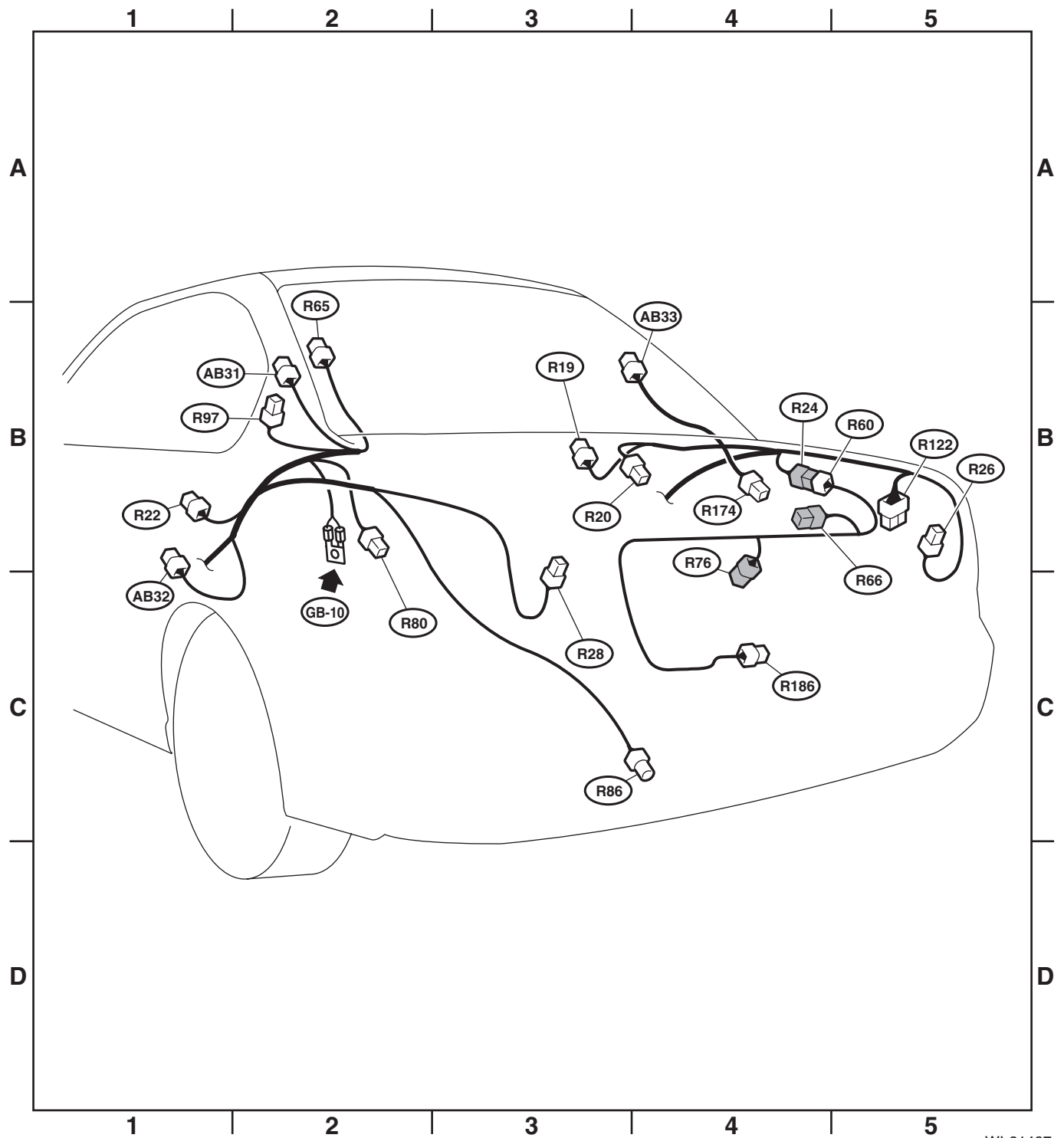
A: LOCATION

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
R86	2	Black	C-4		Drain valve
R97	1	★	B-2		Antenna amplifier
R122	10	Black	B-5		Fuel pump CM
R174	1	★	B-4		Rear defogger (+)
R186	3	★	C-4		Trunk lid lock actuator & switch
★ : 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-21487

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	★	B-4	D35	
R80	8	★	C-1		Keyless entry CM
R86	2	Black	C-3		Drain valve
R97	1	★	C-2		Antenna amplifier
R122	10	Black	C-4		Fuel pump CM
R141	2	Gray	C-2		Luggage room light

★ : White or natural color

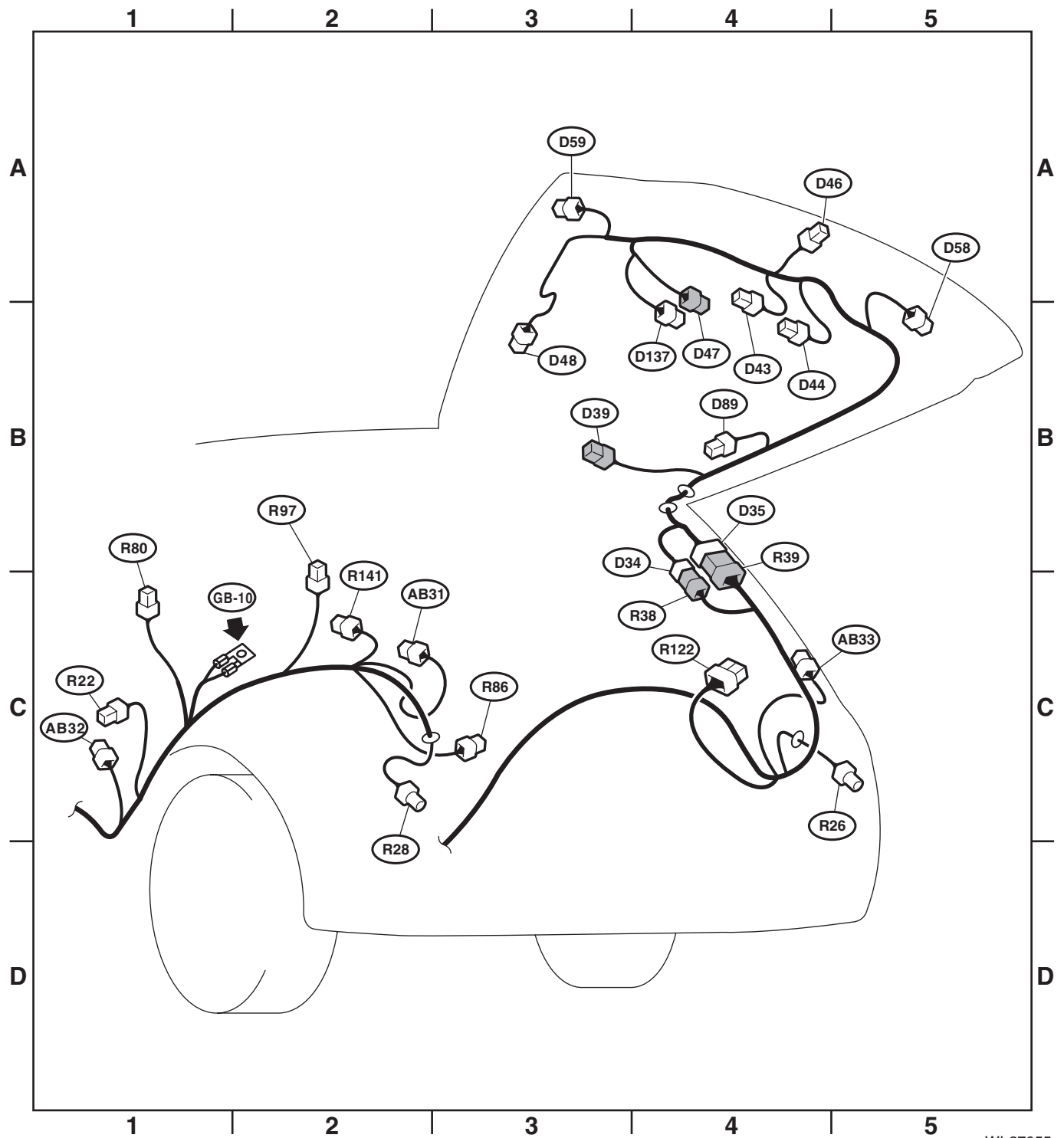
Connector				Connecting to	
No.	Pole	Color	Area	No.	Description
D34	8	★	B-4	R38	Rear wiring harness RH
D35	14	★	B-4	R39	
D39	2	★	B-3		High-mounted stop light
D43	4	★	B-4		Rear wiper motor
D44	2	★	B-4		License plate light RH
D46	4	★	A-4		Rear gate lock actuator & latch switch
D47	2	Brown	A-4		Rear gate 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-27055