

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.

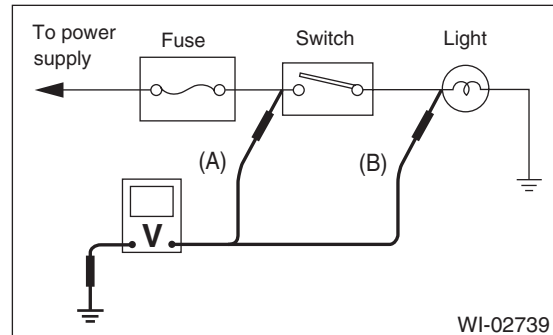
5. SYSTEM OPERATION CHECK

After repairing, ensure that the system operates properly.

B: BASIC INSPECTION

1. VOLTAGE MEASUREMENT

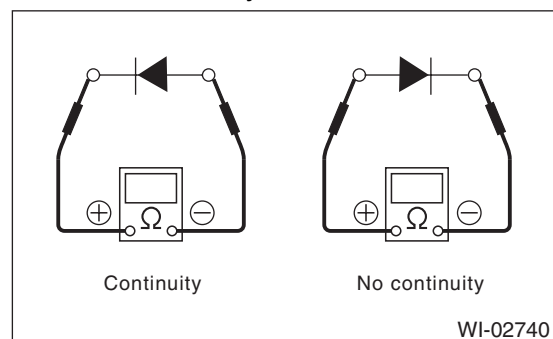
- 1) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal.
- 2) Touch connector (A) with the positive probe of the volt meter. The voltmeter will indicate a voltage.
- 3) Touch connector (B) with 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.



Power Supply Circuit

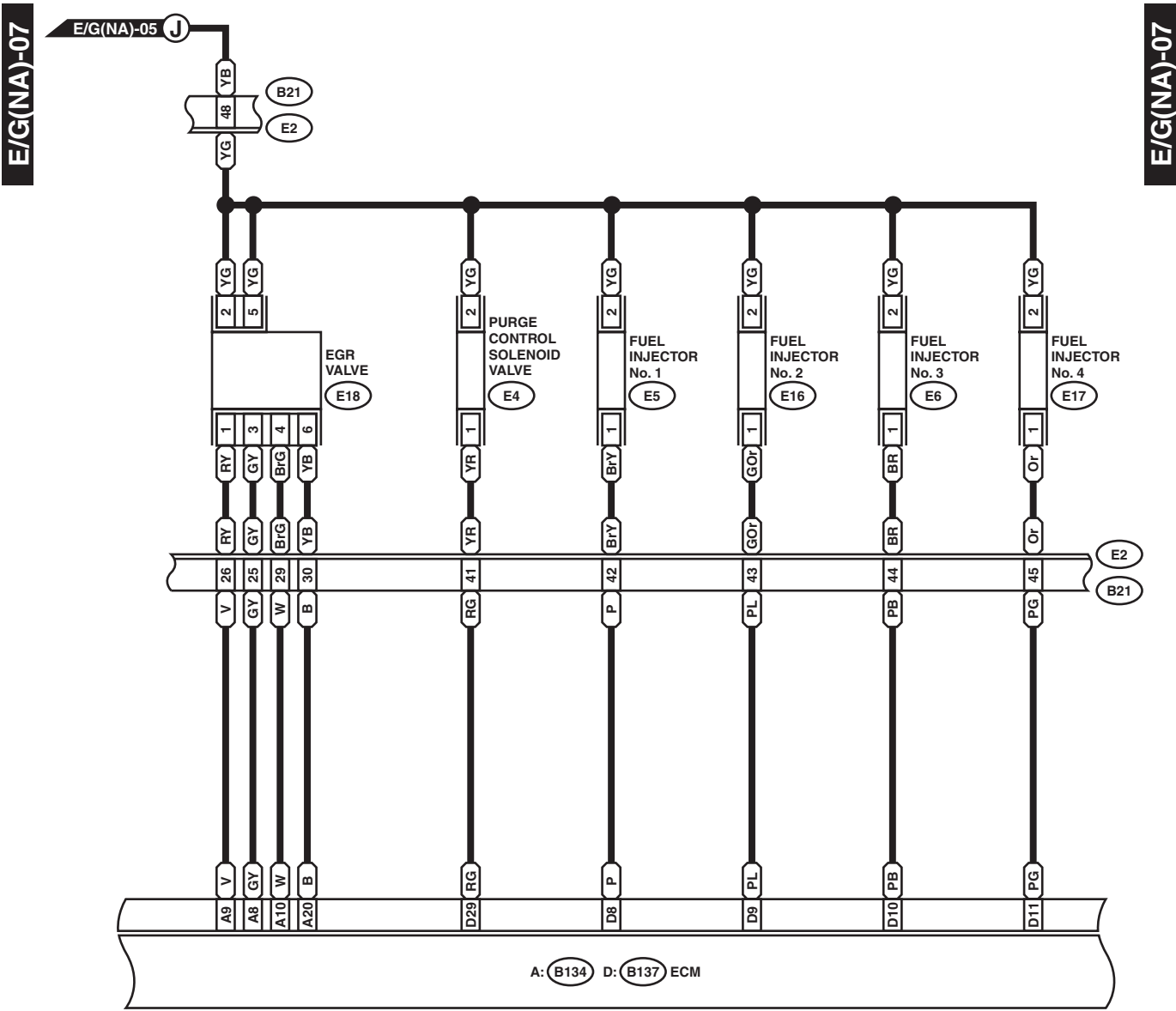
WIRING SYSTEM

No.	Load
MB-1	ABS control module
	VDC control module
MB-2	ABS control module
	VDC control module
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 control module
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

No.	Load
ST-1	Starter relay
ST-2	Starter relay
	ECM
	Clutch 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 module
FB-11	Keyless entry control module
	Trunk room light (4 door model)
	Luggage room light (5 door model)
FB-17	A/C control panel
	Combination meter
	TPM control module
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 module
FB-27	Combination switch
	Front wiper motor
FB-28	A/C control panel
FB-29	Body integrated unit
FB-30	Navigation module
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

Engine Electrical System

WIRING SYSTEM



E4 (BLACK)
1 2

(DARK GRAY) E5 (DARK GRAY)
(DARK GRAY) E6 (DARK GRAY)
1 2

E18 (DARK GRAY)
1 2 3
4 5 6

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

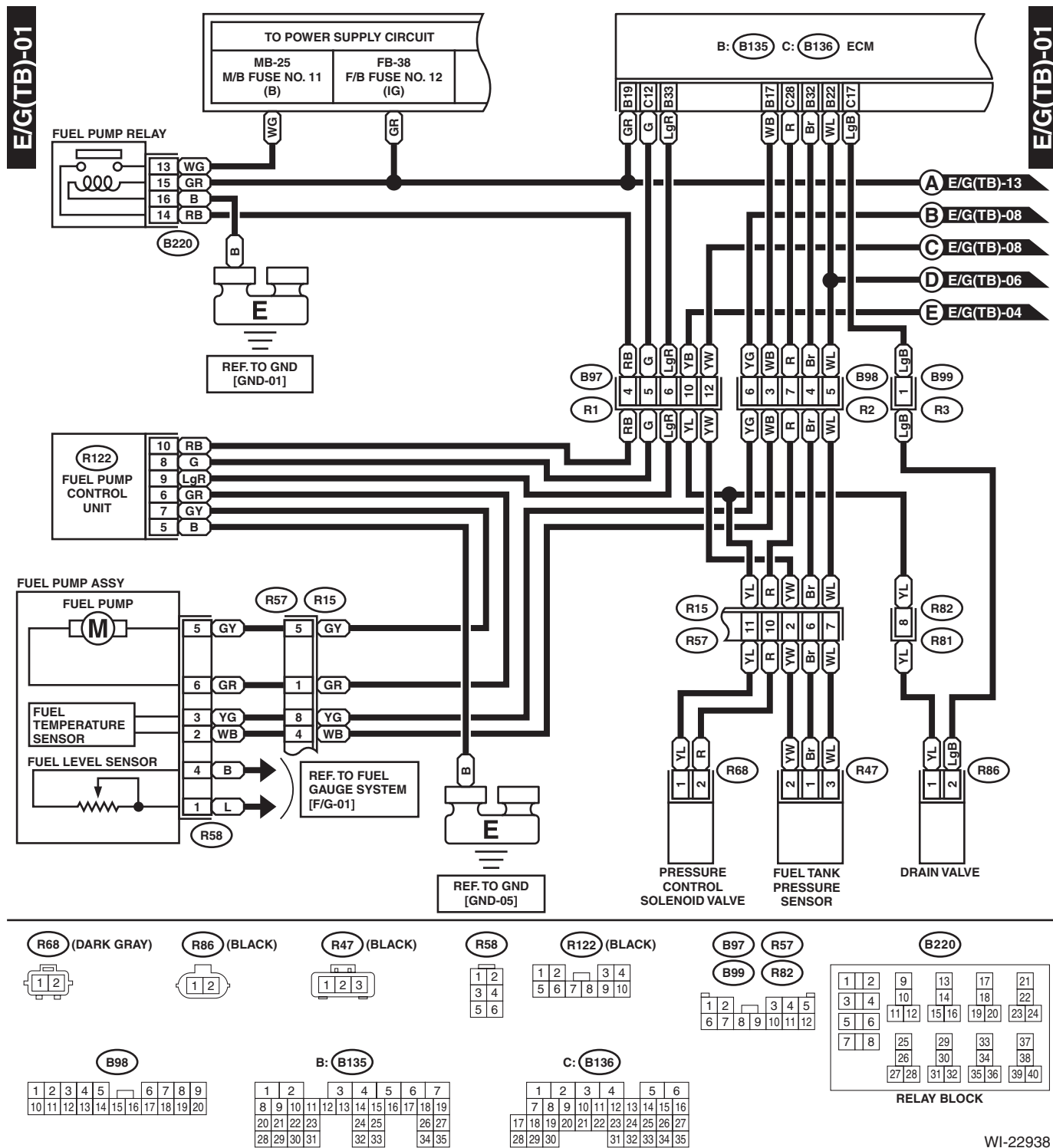
A: B134
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 33 34

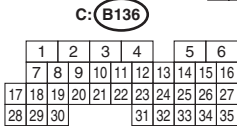
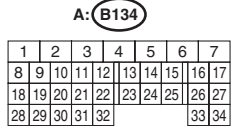
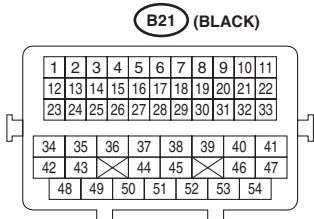
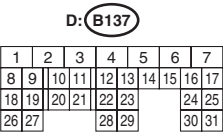
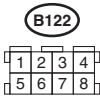
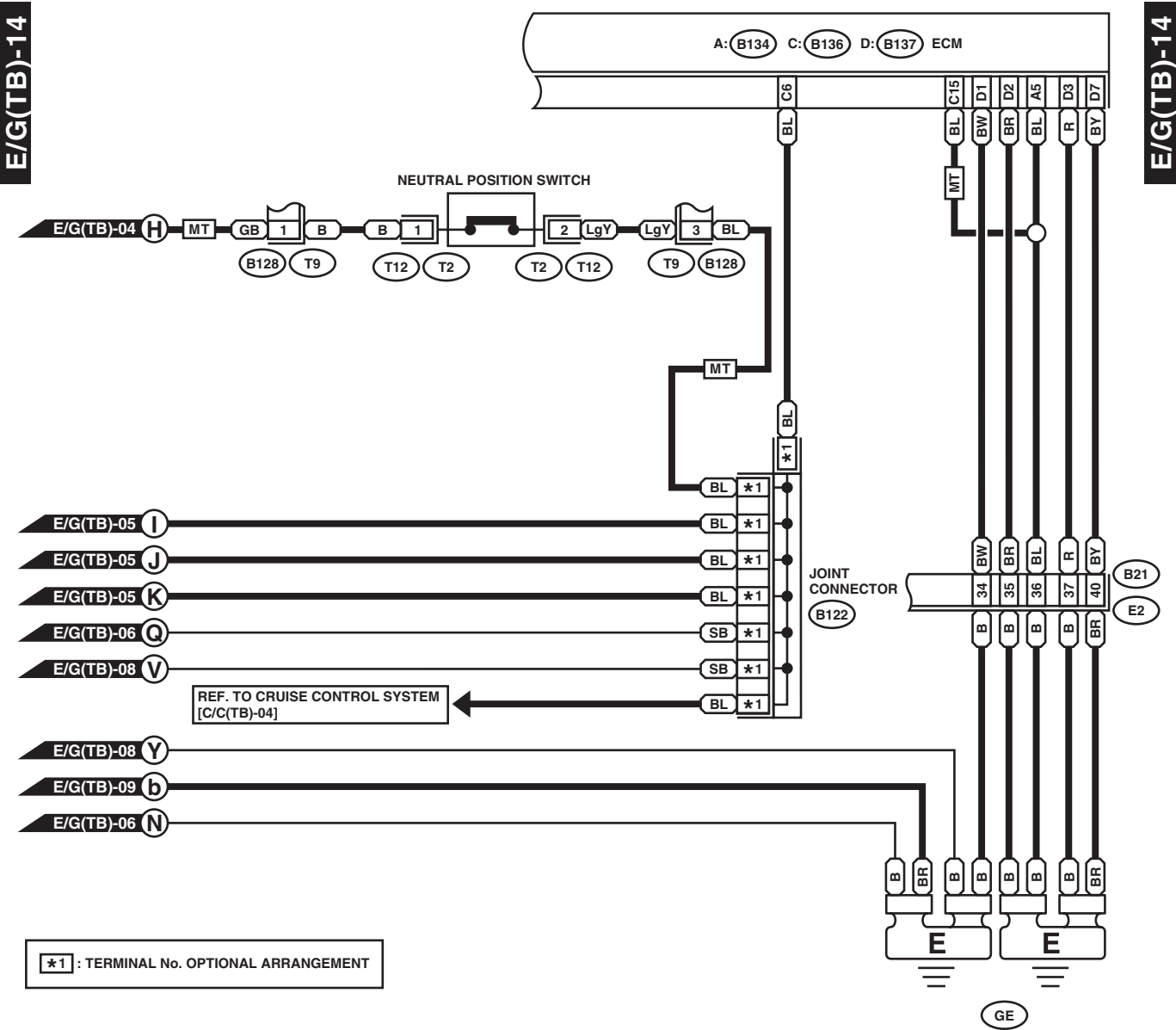
B21 (BLACK)
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 32 33
34 35 36 37 38 39 40 41
42 43 44 45 46 47
48 49 50 51 52 53 54

WI-22935

Engine Electrical System

WIRING SYSTEM



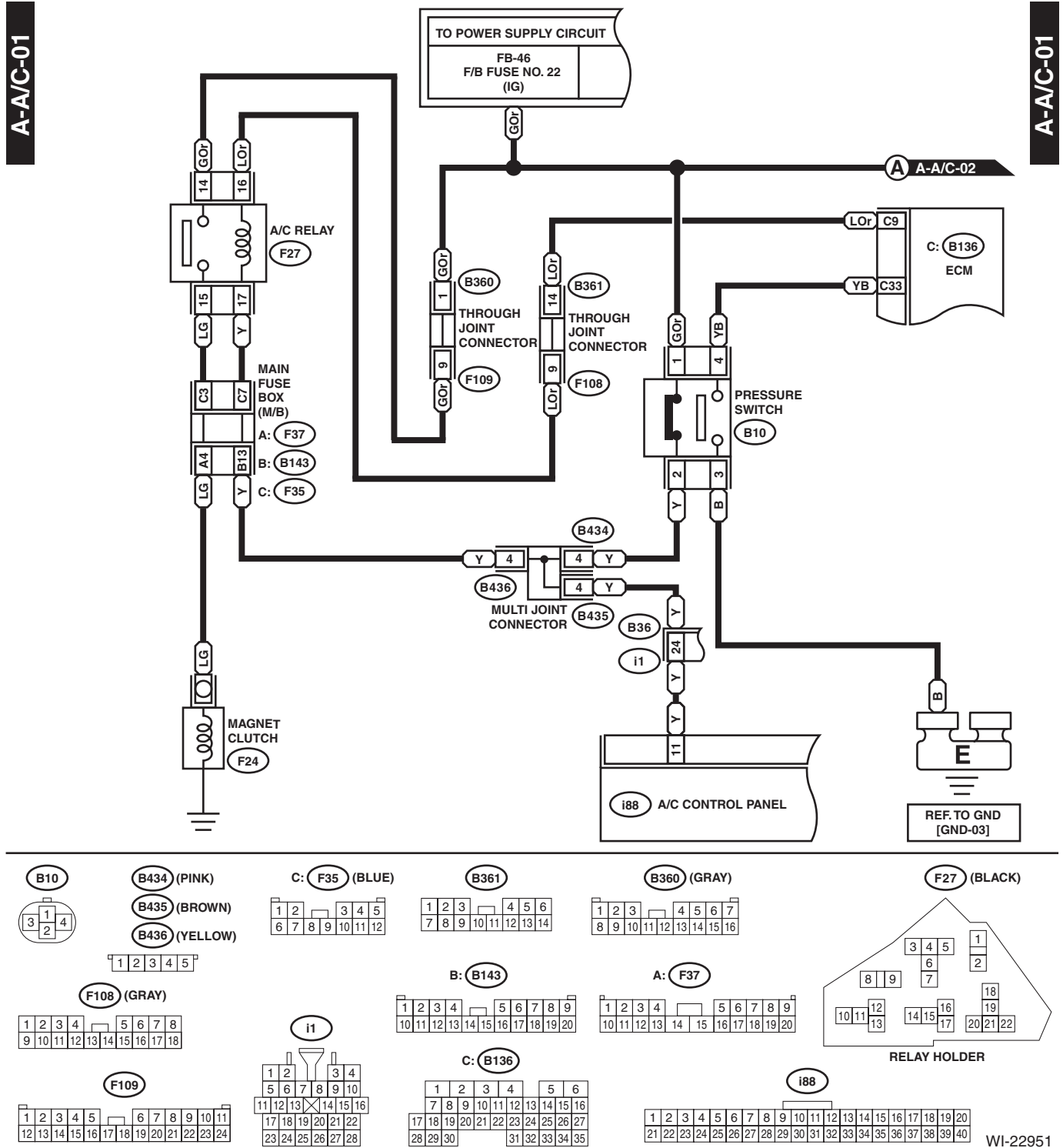


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Air Conditioning System

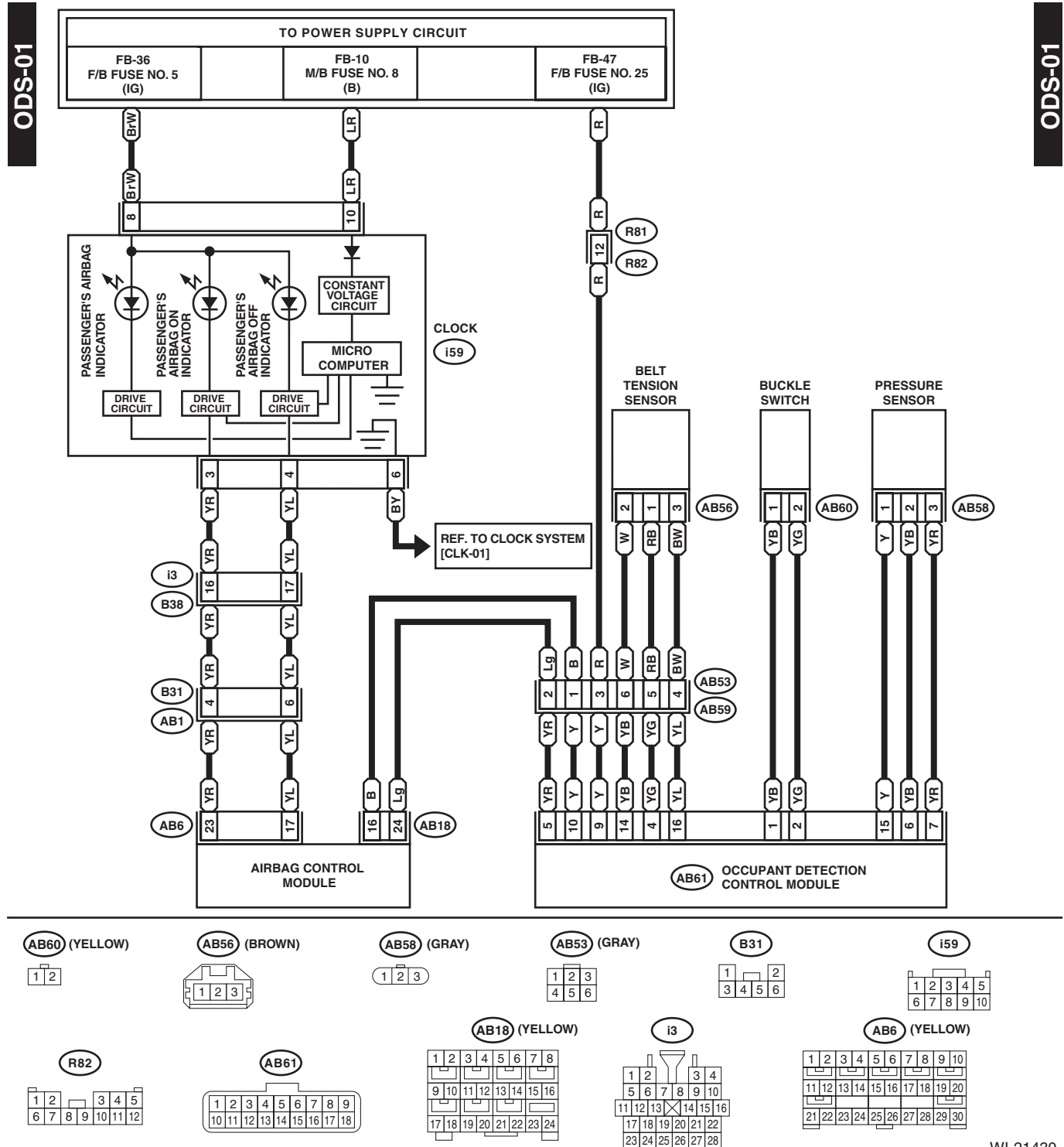
WIRING SYSTEM

2. AUTO A/C MODEL



18. Occupant Detection System

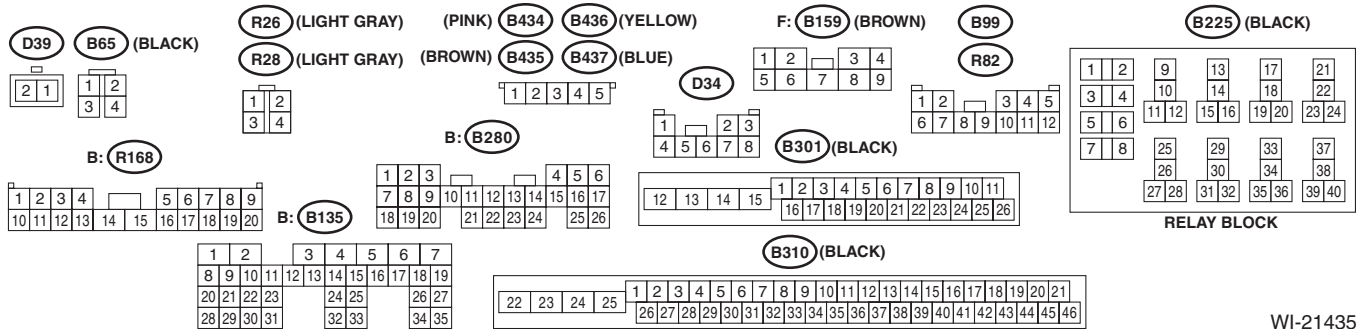
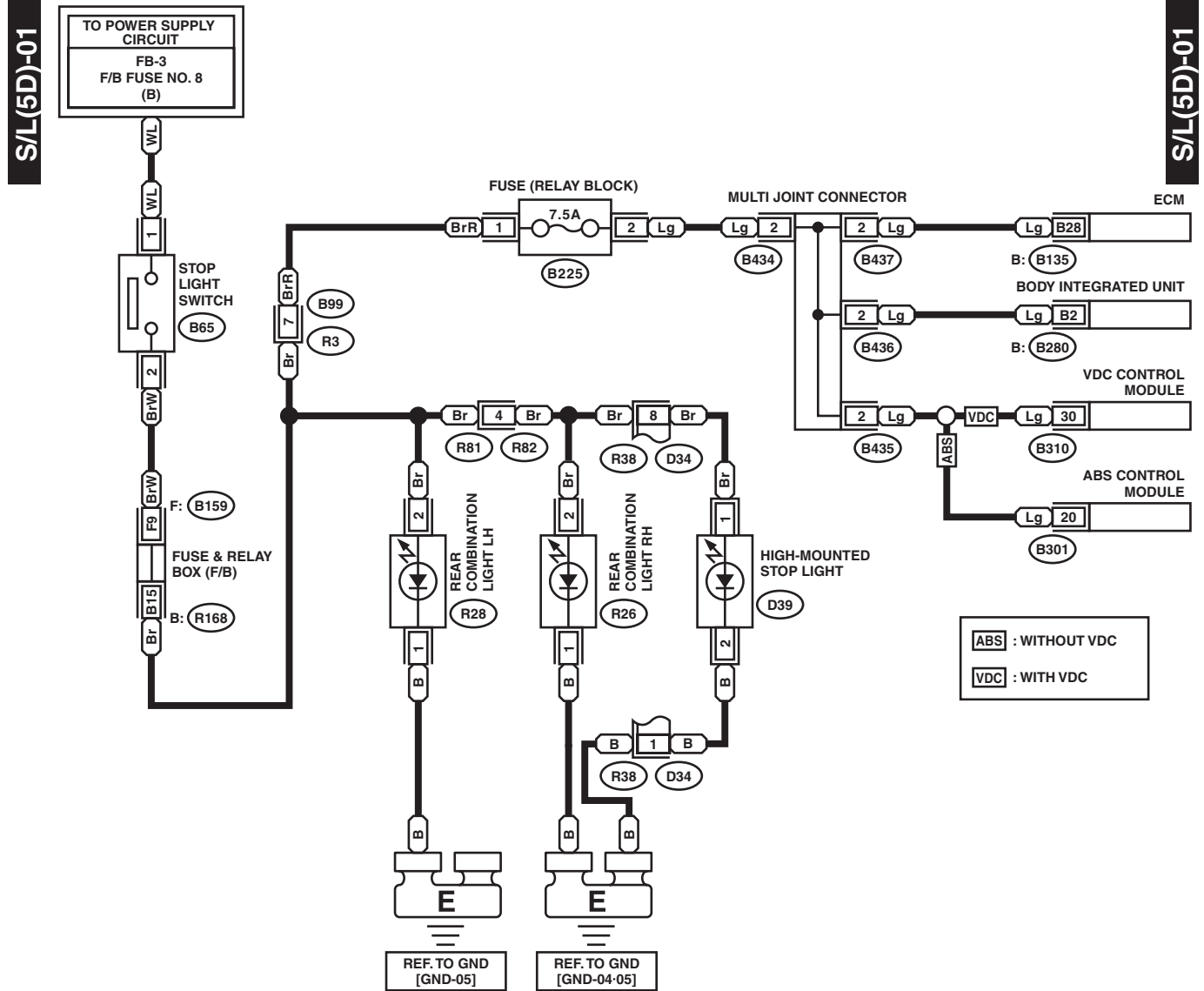
A: WIRING DIAGRAM



Stop Light System

WIRING SYSTEM

2. 5 DOOR MODEL



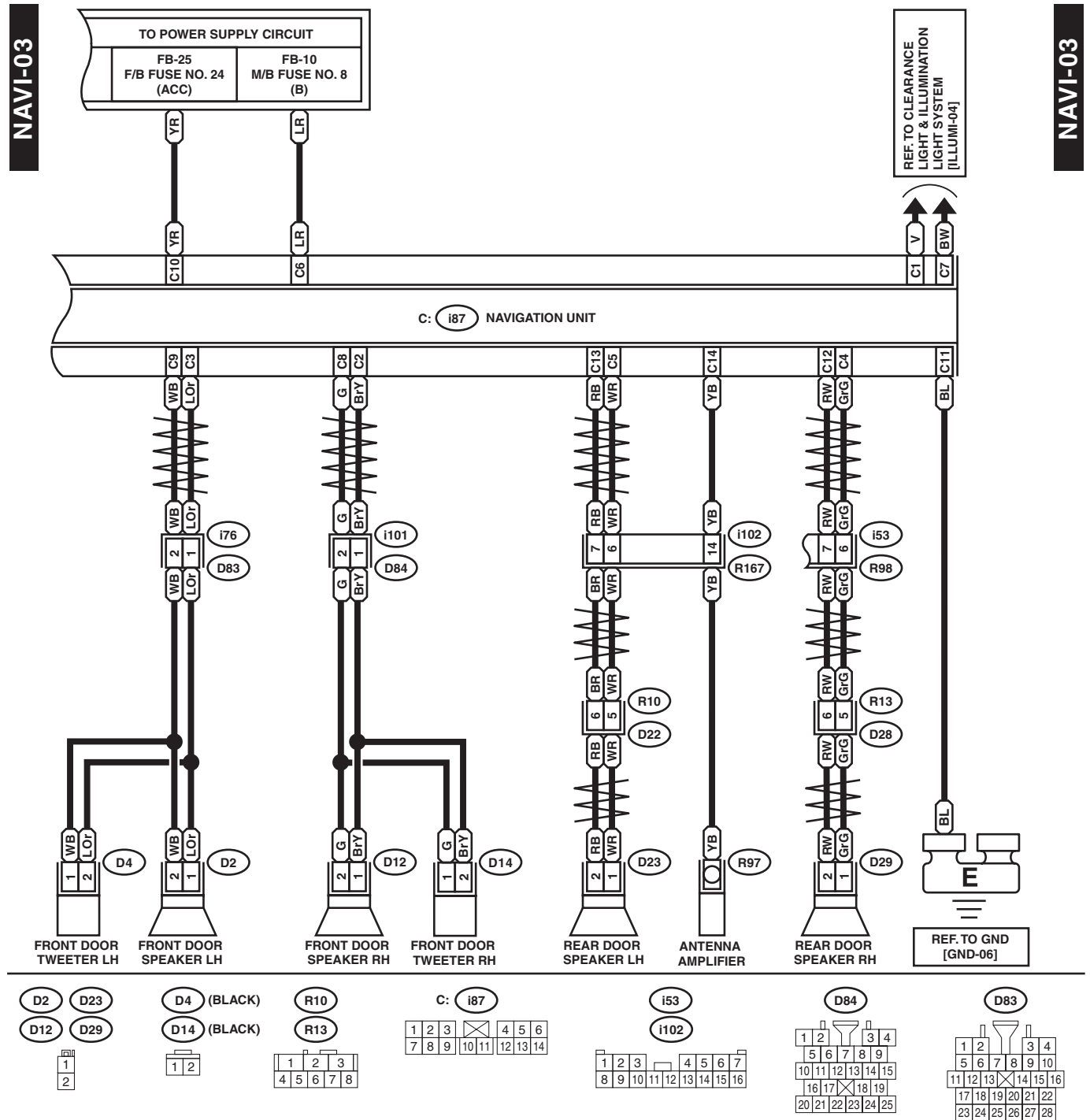
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C/L-02



Navigation System

WIRING SYSTEM



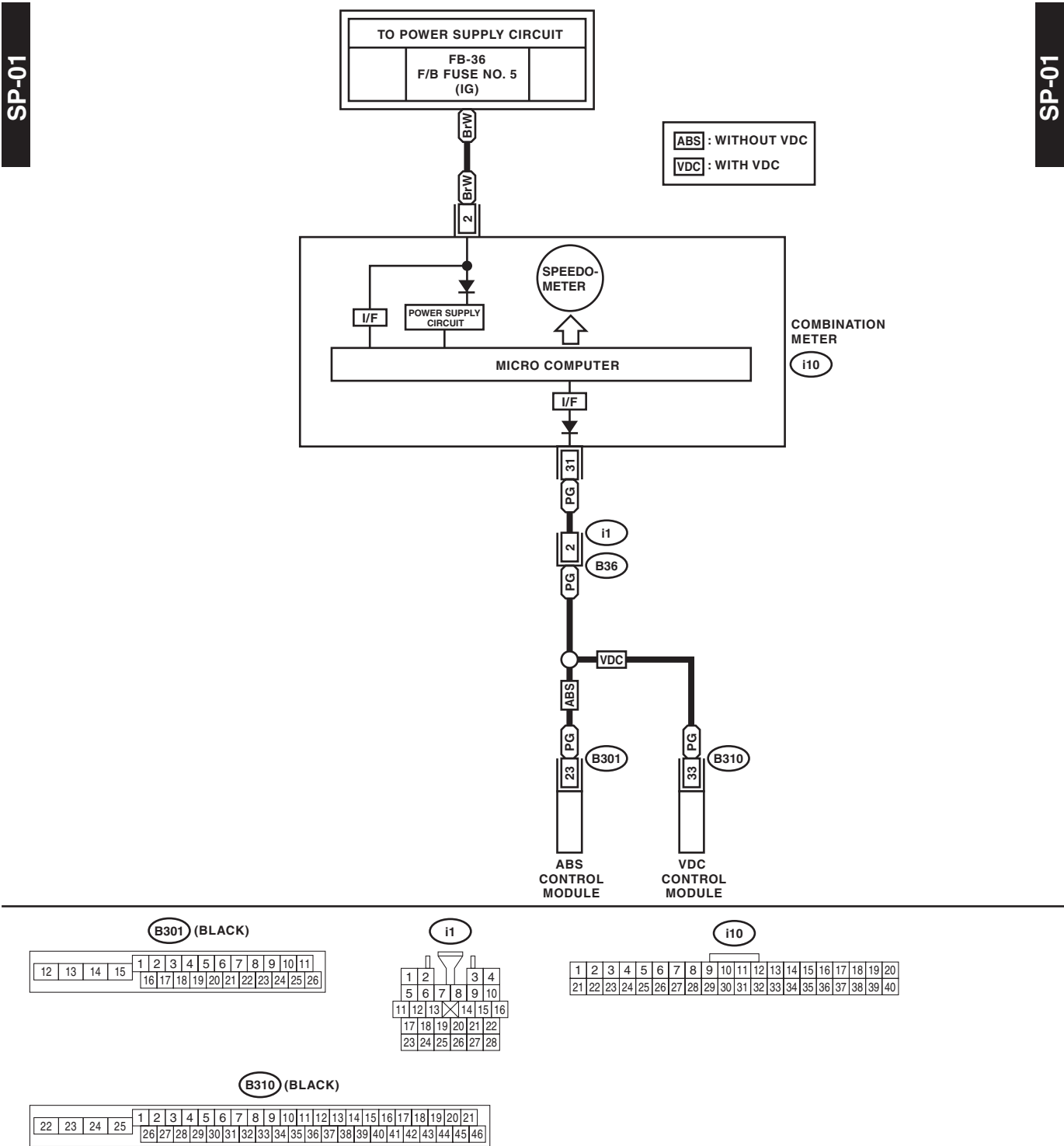
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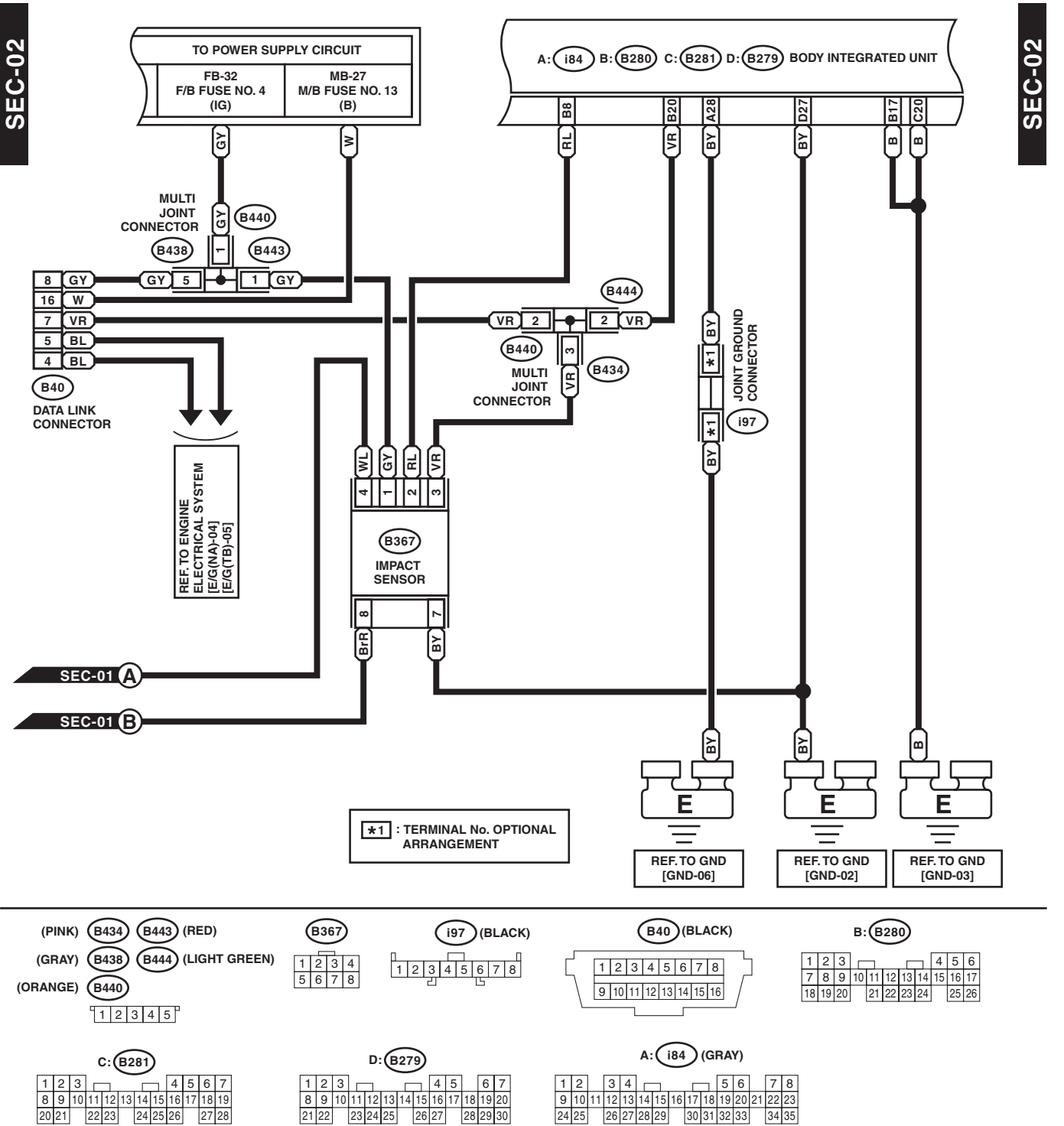
Speedometer System

WIRING SYSTEM

39.Speedometer System

A: WIRING DIAGRAM

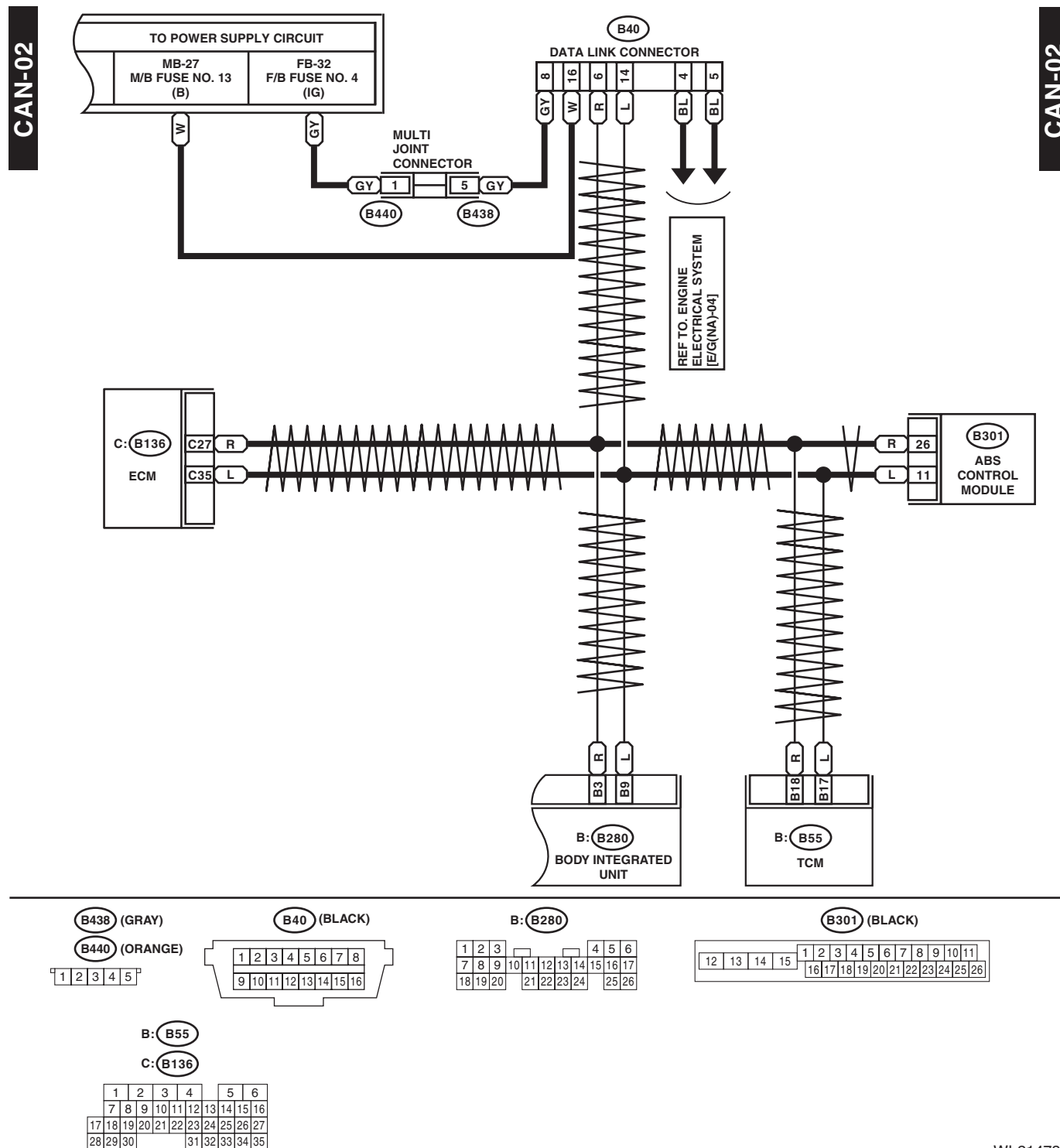




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2. HIGH SPEED CAN

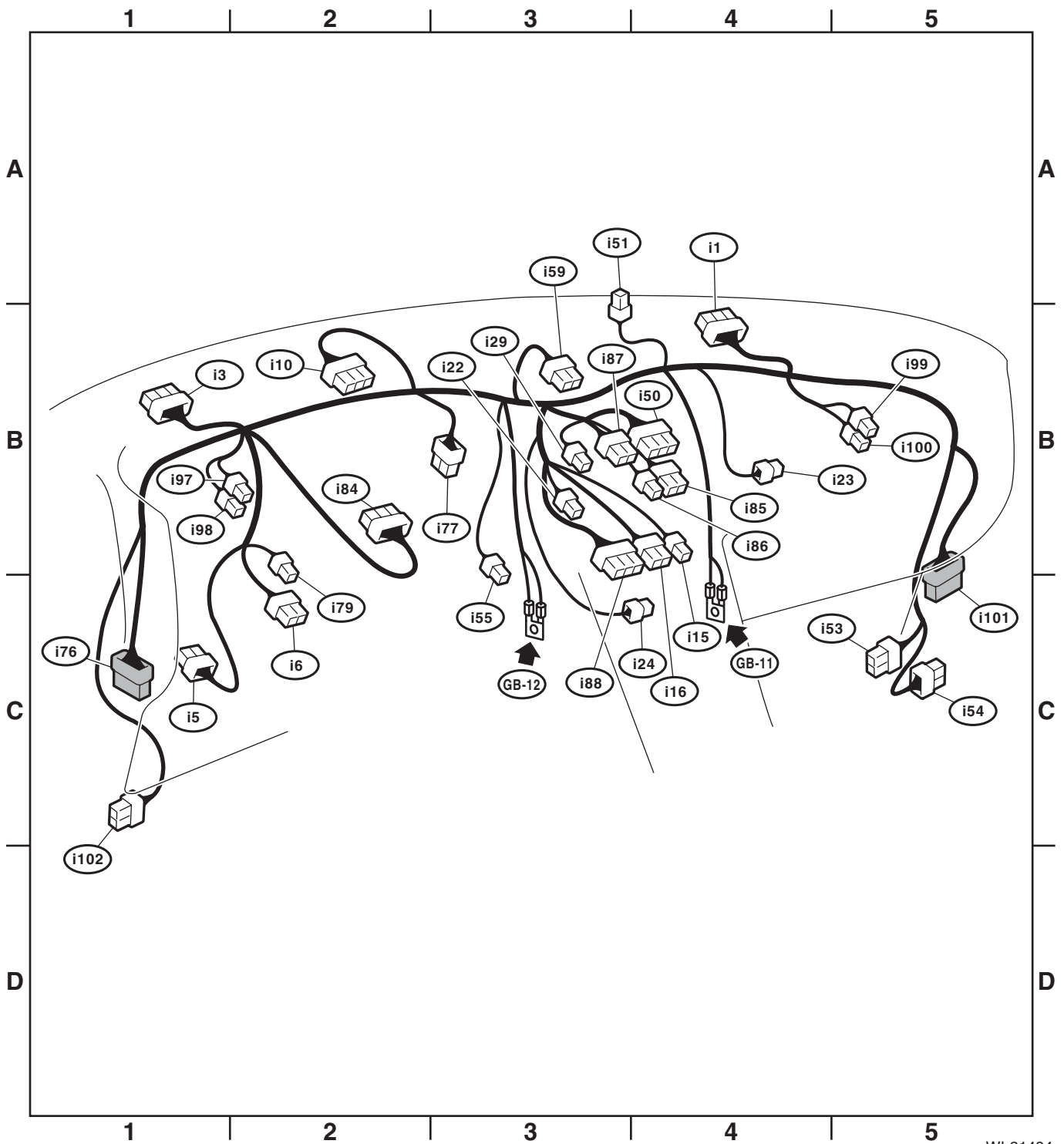
• Models without VDC



WI-21473

Instrument Panel Wiring Harness

WIRING SYSTEM



WI-21484