FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2007 RAV4.

Applicable models: GSA33, 38 Series
ACA33, 38 Series

Refer to the following manuals for additional service specifications and repair procedures for these models:

Manual Name	Pub. No.
● 2007 RAV4 Repair Manual	RM03T0U
● 2007 TOYOTA New Car Features	NM04J0U

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

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NOTICE

Always follow the directions given in the above repair manuals when handling supplemental restraint system components (such as removal, installation, inspection, etc.) in order to prevent accidents and supplemental restraint system malfunction.

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2007 RAV4
ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	TROUBLE–SHOOTING	Describes the basic inspection procedures for electrical circuits.
D	ABBREVIATIONS	Defines the abbreviations used in this manual.
E	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.
H	INDEX	Index of the system circuits.
	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, ”How to use this manual”). The ”System Outline” and ”Service Hints” useful for troubleshooting are also contained in this section. (Only wiring information for complete circuits is included.)
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
K	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
M	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections. (Only wiring information for complete circuits is included.)

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This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

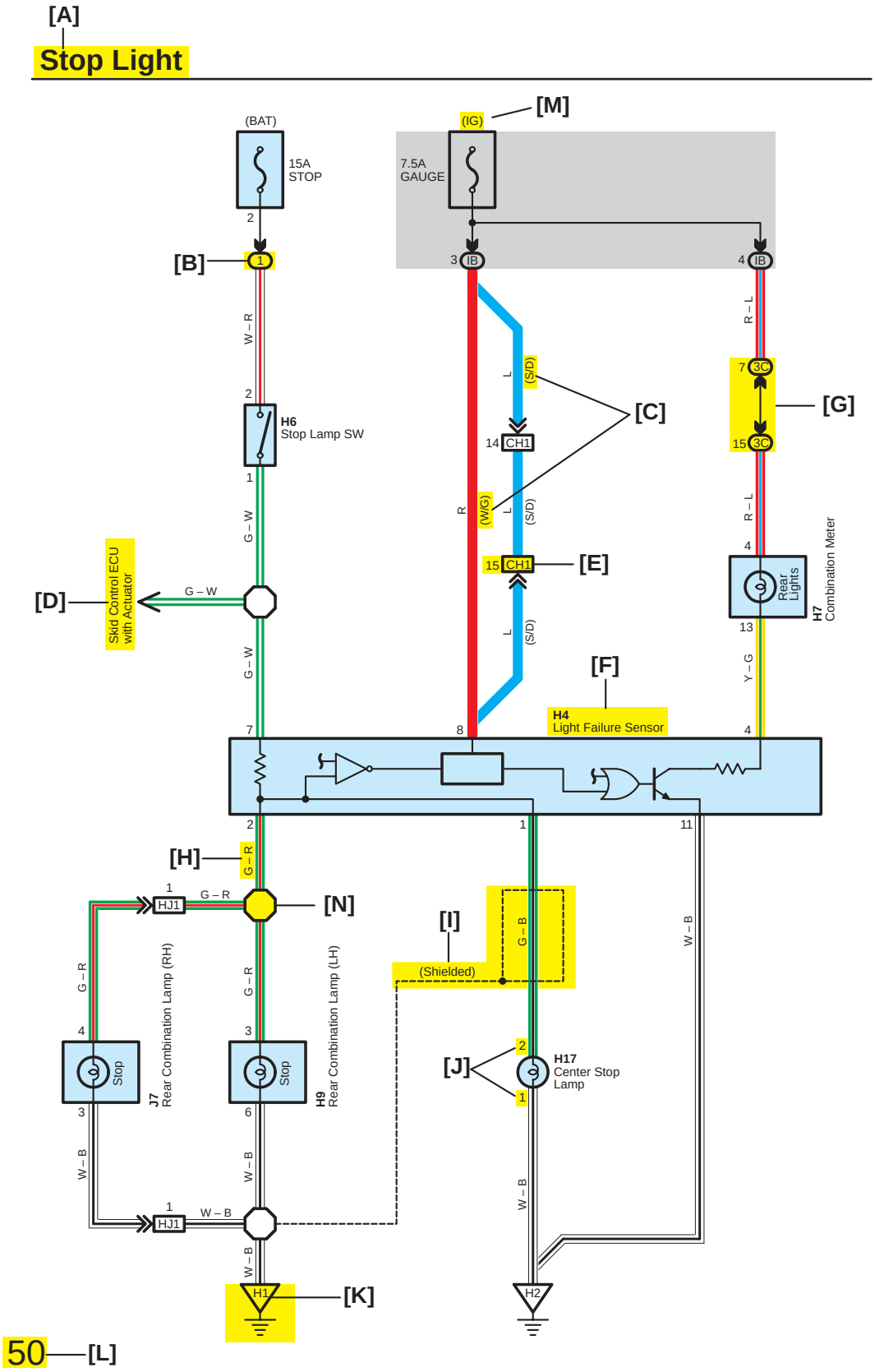
The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.
Wiring related to each system is indicated in each system circuit by arrows (from__, to__). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

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* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



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[A] : System Title

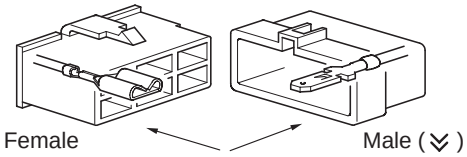
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: (1) Indicates Relay Block No.1

[C] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the code for the (male and female) connectors which are used to join two wire harnesses. The connector code consists of two alphabetical and one numerical characters.



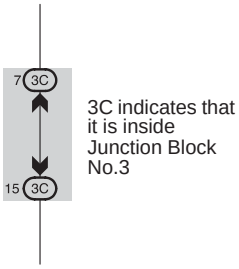
The first character of the connector code indicates the alphabetical code allocated to the wire harness which has the female connector, and the second shows that of the wire harness which has the male connector.
The third character indicates a serial number used to distinguish between the wire harness combinations in cases when more than one of the same combination of wire harnesses exist (e.g. CH1 and CH2).

Symbol ( ) indicates the male terminal connector.
Numbers outside connector codes indicate the pin numbers of both male and female connectors.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



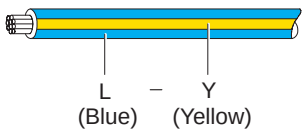
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y

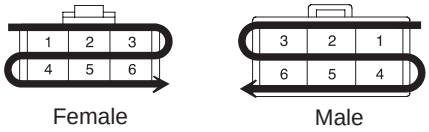


[I] : Indicates a shielded cable.



[J] : Indicates the pin number of the connector.
The numbering system is different for female and male connectors.

Example:



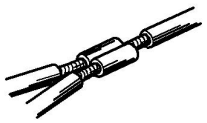
[K] : Indicates the ground point. The code consists of the two characters: A letter and number.
The first character of the code indicates the alphabetical code allocated to the wire harness. The second character indicates a serial number used to distinguish between the ground points in cases when more than one ground point exist on the same wire harness.

[L] : Page No.

[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

[N] : Indicates a wiring Splice Point.

Example:



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[O] **System Outline**

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop lamp SW.
When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

Stop Light Disconnection Warning

When the ignition SW is turned on and the brake pedal is pressed (Stop lamp SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.
As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[P] **: Parts Location**

Code	See Page	Code	See Page	Code	See Page
H4	36	H7	36	H17	38
H6	36	H9	38	J7	38

[Q] **: Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Brace LH)

[R] **: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

[S] **: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CH1	42	Engine Room Main Wire and Instrument Panel Wire (Left Kick Panel)
HJ1	50	Instrument Panel Wire and Floor Wire (Right Kick Panel)

[T] **: Ground Points**

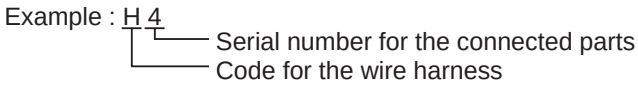
Code	See Page	Ground Points Location
H1	50	Under the Left Center Pillar
H2	50	Back Panel Center

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[O] : Explains the system outline.

[P] : Indicates reference pages showing the parts locations in the system circuit on the vehicle.

Example : Code ”H4” (Light Failure Sensor) is on page 36 of the manual.
* The first character of the code indicates the alphabetical code allocated to the wire harness, and the second character indicates the serial number of the parts connected to the wire harness.



[Q] : Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example : Connector ”1” is described on page 18 of this manual and is installed on the left side of the instrument panel.

[R] : Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example : Connector ”3C” connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[S] : Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example : Connector ”CH1” connects the Engine Room Main Wire (female) and Instrument Panel Wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

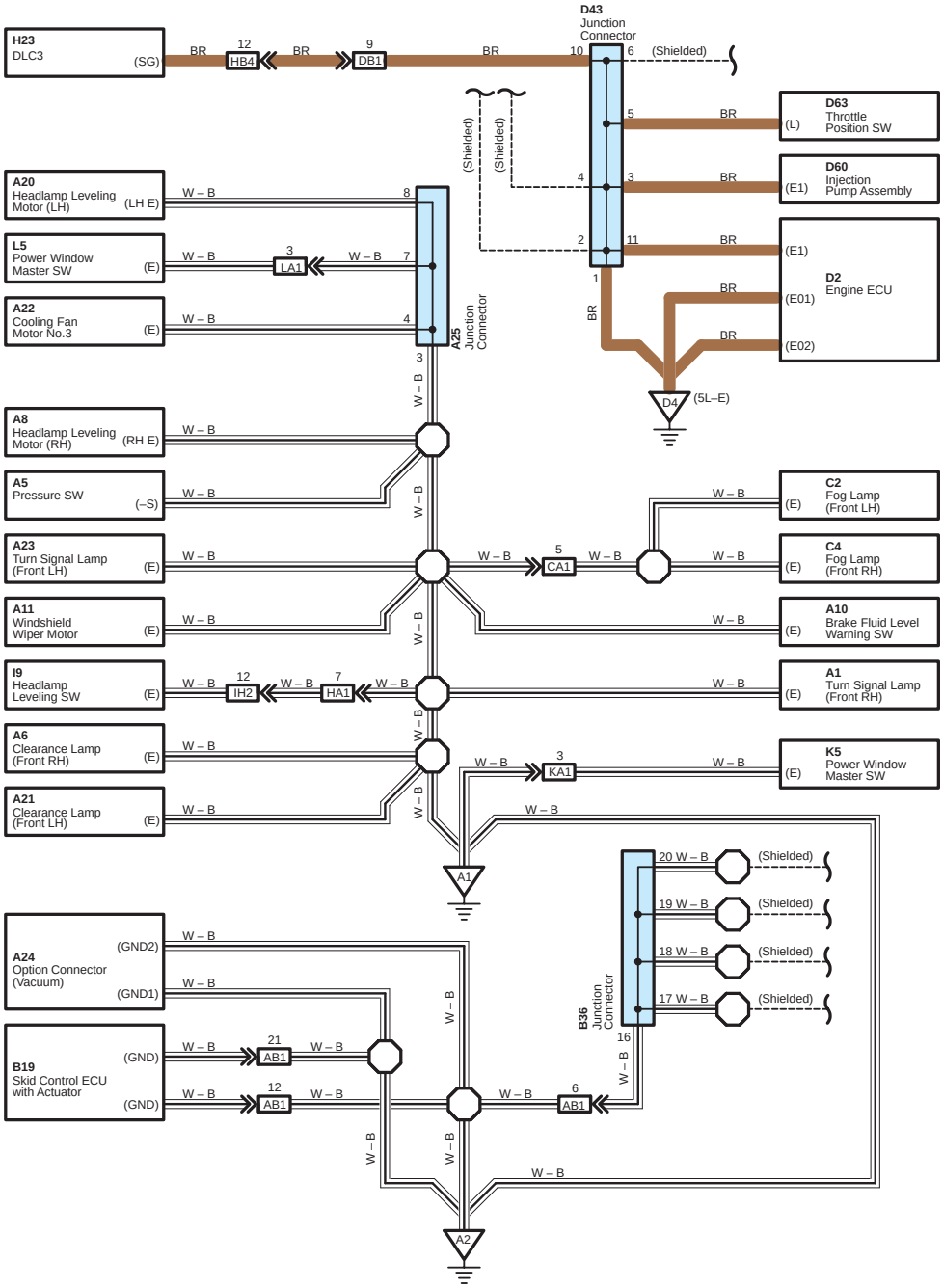
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

Example : Ground point ”H2” is described on page 50 of this manual and is installed on the back panel center.

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The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (A1 , A2 and D4 shown below) can also be checked this way.

I GROUND POINT



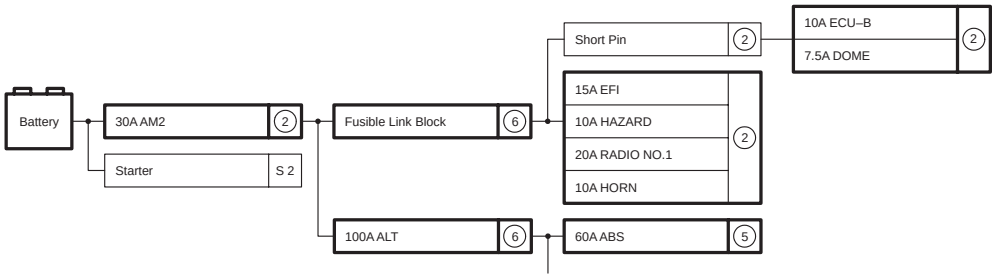
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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The ”Current Flow Chart” section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

J POWER SOURCE (Current Flow Chart)

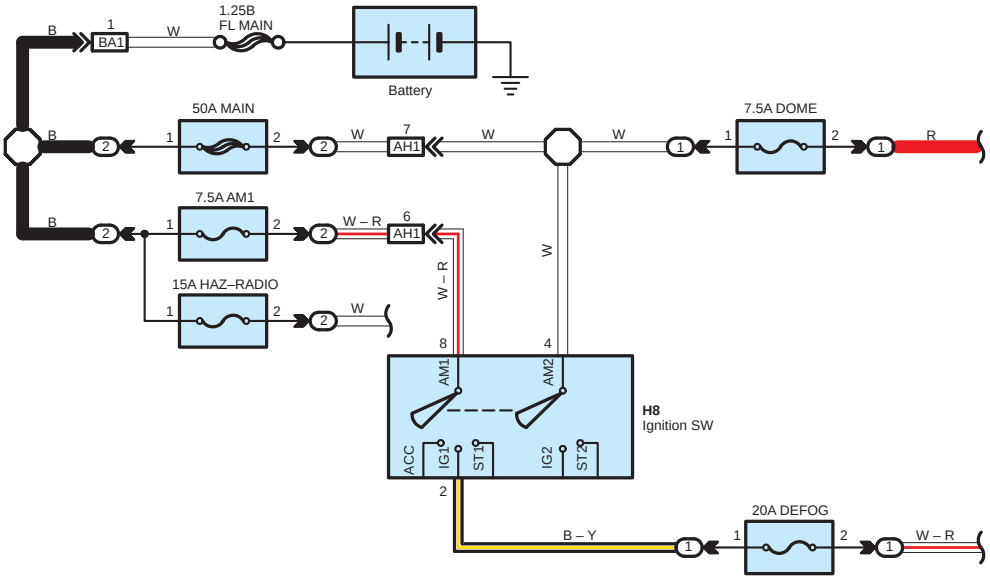
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off System	214 230 112 122

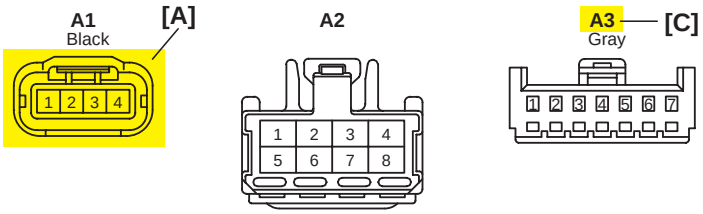
Power Source

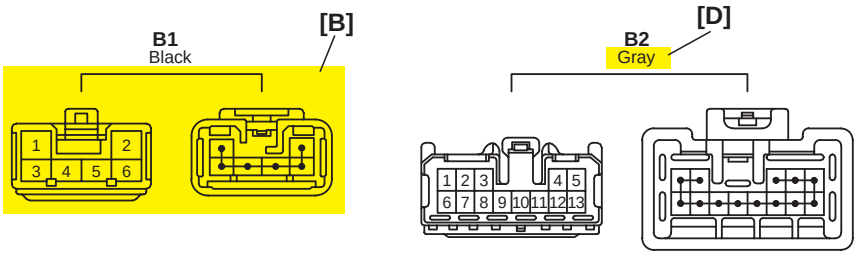


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

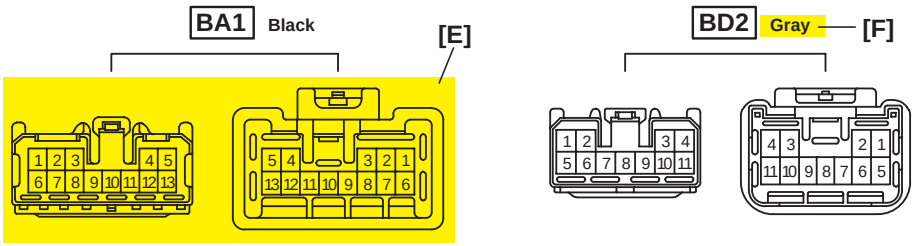
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K CONNECTOR LIST



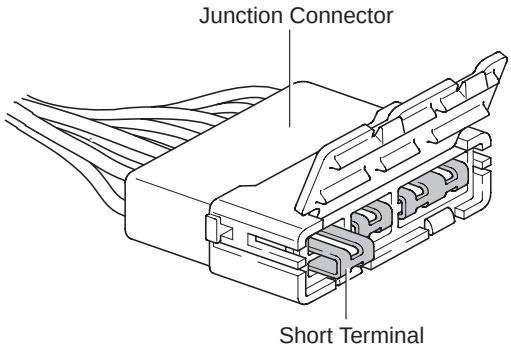


K CONNECTOR LIST



[A] : Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B] : Junction Connector
Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed.

[C] : Parts Code
The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D] : Connector Color
Connectors not indicated are milky white in color.

[E] : Indicates the connector shapes which are used to join wire harnesses.
On Left : Female connector shapes
On Right : Male connector shapes
Numbers indicate pin numbers.

[F] : Indicates connector colors. (Connectors with not indicated colors are white)

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L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A1	Turn Signal Lamp (Front RH)	90980–11019
A2	Inlet Air Temp. Sensor	90980–11163
A3	Air Flow Meter	90980–12292
A4	A/C Pressure Sensor	90980–10845
A5	Pressure SW	90980–10943
A6	Clearance Lamp (Front RH)	90980–11156
[A]	[B]	[C]
A8	Headlamp Leveling Motor (RH)	90980–11016
A9	Brake Vacuum Warning SW	90980–11252
A10	Brake Fluid Level Warning SW	90980–11207
A11	Windshield Washer Motor	90980–11599
A12	Airbag Sensor (Front RH)	90980–11856
A13		90980–12490

Code	Part Name	Part Number
B22	Door Courtesy SW (Front LH)	90980–12470
B23	Front Seat Outer Belt (LH)	90980–12253
B24	Blower SW (Rear Heater)	90980–10463
B25	Front Seat Outer Belt (RH)	90980–12253
B26	Door Courtesy SW (Front RH)	90980–12470
B27	Cooling Fan ECU No.1	90980–10841
B28	Cooling Fan ECU No.2	
B29	Water Temp. Sensor (Radiator)	90980–10735
B30	Fuel Filter Warning SW	90980–11003
B32	Door Control Relay (LH)	90980–10789
B33	Step Lamp (LH)	90980–10121
B34	Junction Connector	90980–11398
B35		

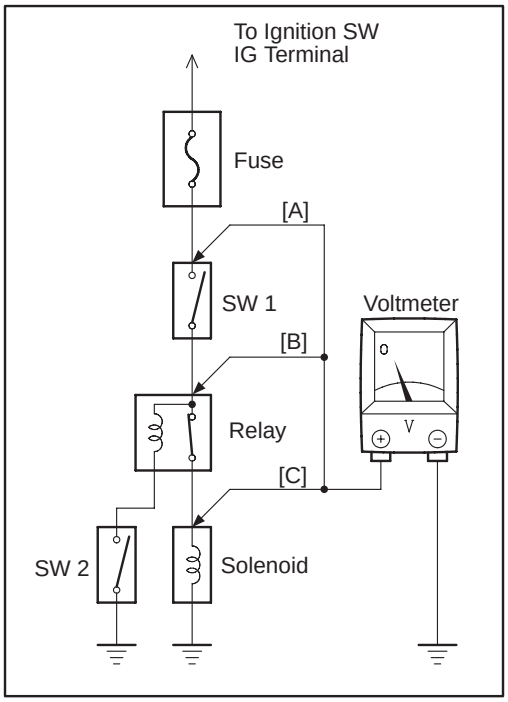
[A] : Part Code

[B] : Part Name

[C] : Part Number
Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply.

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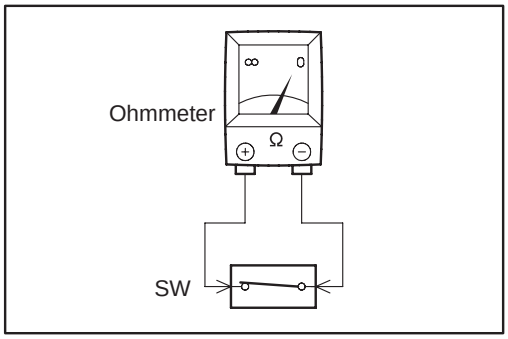


VOLTAGE CHECK

(a) Establish conditions in which voltage is present at the check point.

Example:
[A] – Ignition SW on
[B] – Ignition SW and SW 1 on
[C] – Ignition SW, SW 1 and Relay on (SW 2 off)

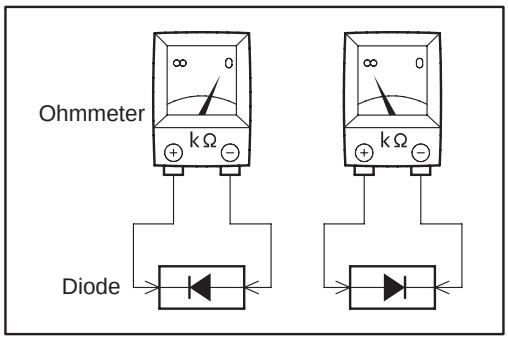
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



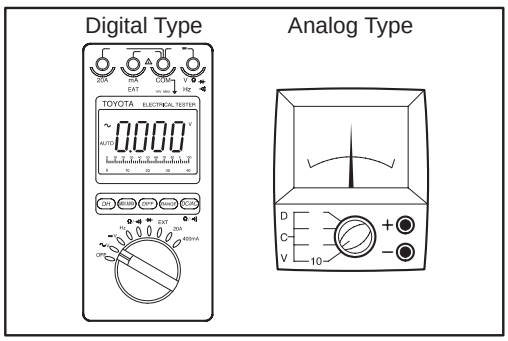
CONTINUITY AND RESISTANCE CHECK

(a) Disconnect the battery terminal or wire so there is no voltage between the check points.

(b) Contact the two leads of an ohmmeter to each of the check points.

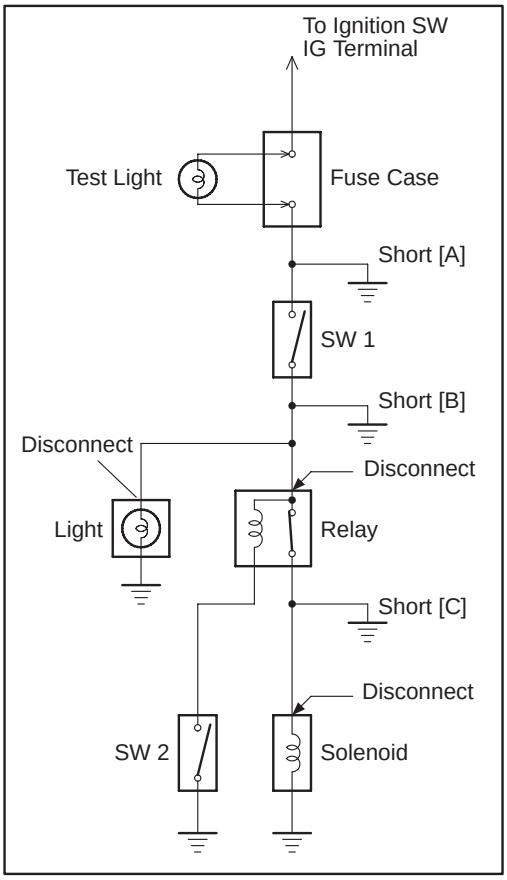


If the circuit has diodes, reverse the two leads and check again.
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.
When contacting the two leads in reverse, there should be no continuity.



(c) Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting of the electrical circuit.

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FINDING A SHORT CIRCUIT

(a) Remove the blown fuse and disconnect all loads of the fuse.

(b) Connect a test light in place of the fuse.

(c) Establish conditions in which the test light comes on.

Example:

[A] – Ignition SW on
[B] – Ignition SW and SW 1 on
[C] – Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

(d) Disconnect and reconnect the connectors while watching the test light.
The short lies between the connector where the test light stays lit and the connector where the light goes out.

(e) Find the exact location of the short by lightly shaking the problem wire along the body.

CAUTION:

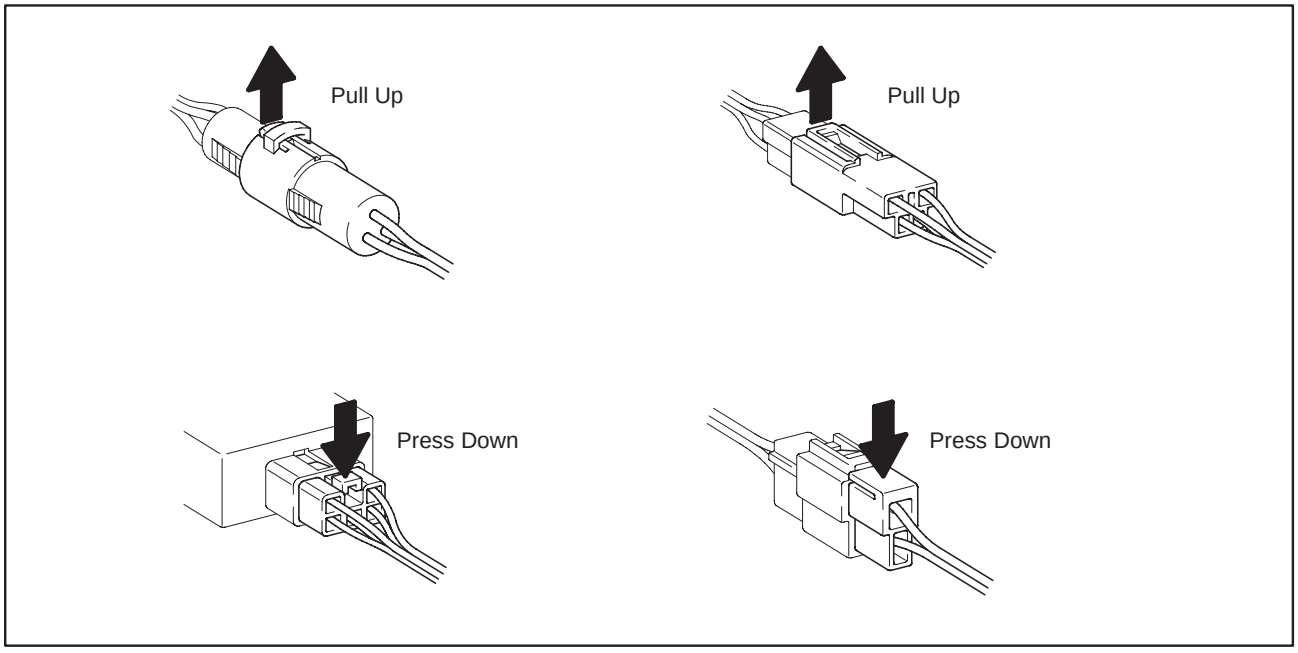
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

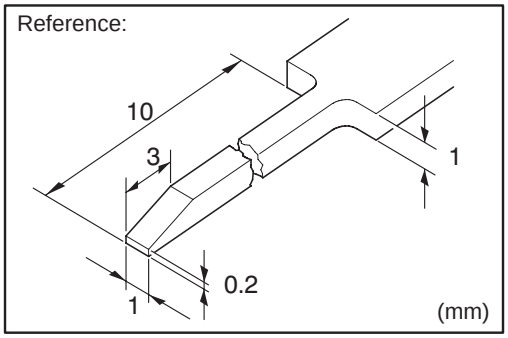
DISCONNECTION OF MALE AND FEMALE CONNECTORS

To pull apart the connectors, pull on the connector itself, not the wire harness.

HINT : Check to see what kind of connector you are disconnecting before pulling apart.



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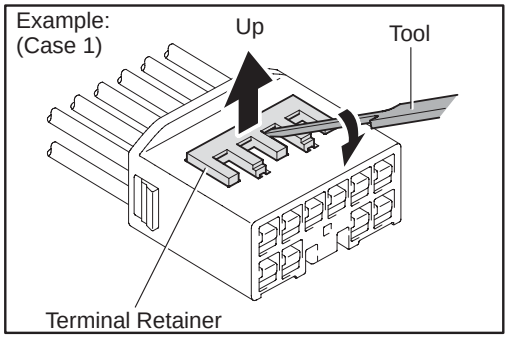


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

HINT : To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

2. DISCONNECT CONNECTOR

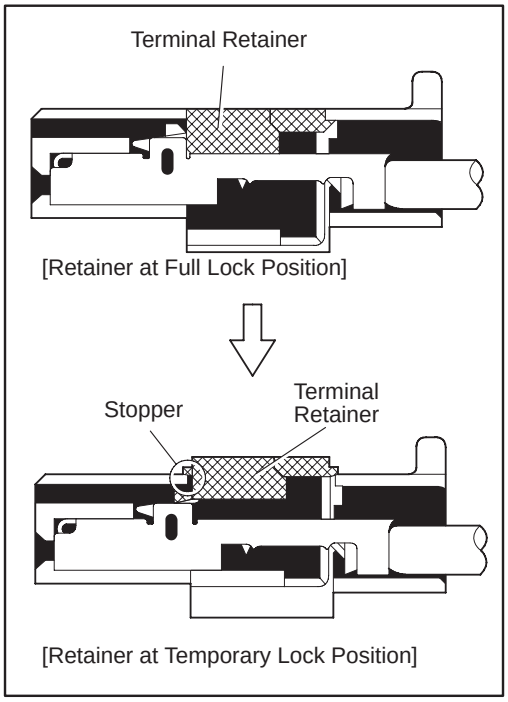


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

(a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.

(b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

NOTICE:
Do not remove the terminal retainer from connector body.

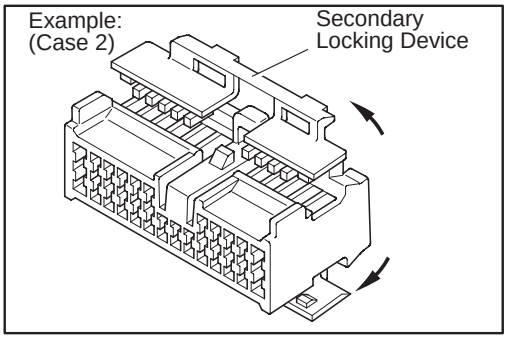


[A] For Non–Waterproof Type Connector

HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

"Case 1"

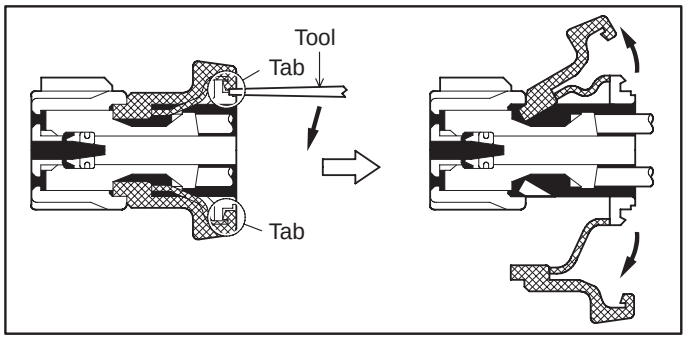
Raise the terminal retainer up to the temporary lock position.

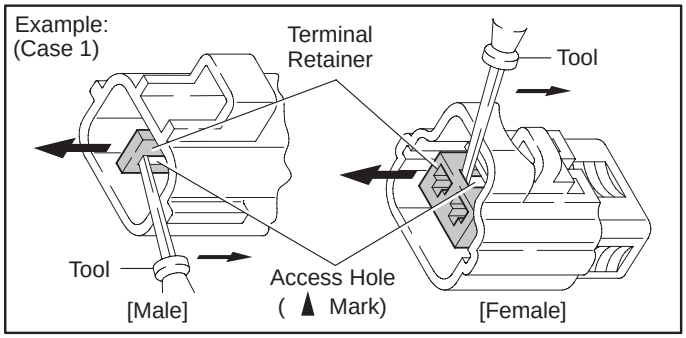


"Case 2"

Open the secondary locking device.

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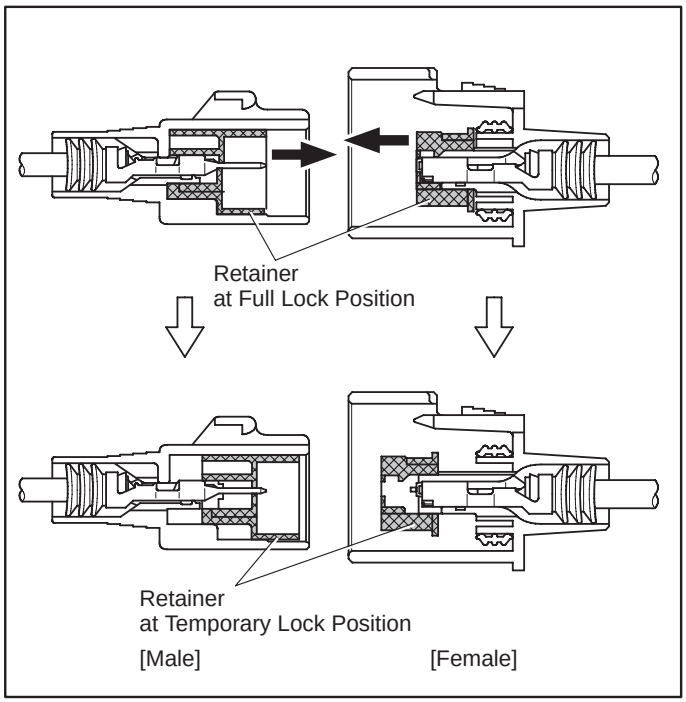


[B] For Waterproof Type Connector

HINT : Terminal retainer color is different according to connector body.

Example:

Terminal Retainer	: Connector Body
Black or White	: Gray
Black or White	: Dark Gray
Gray or White	: Black

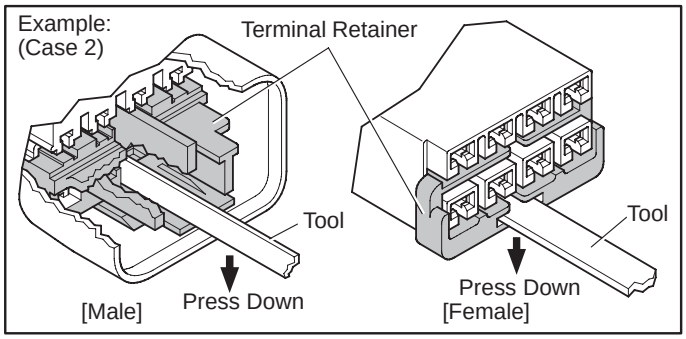


”Case 1”

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

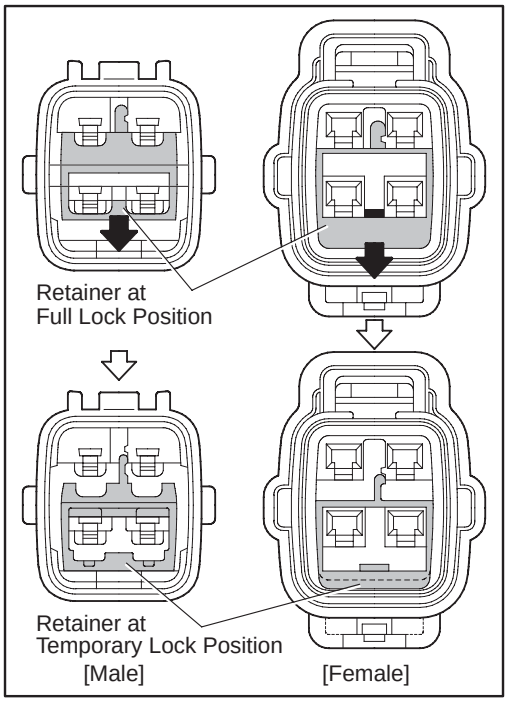
HINT : The needle insertion position varies according to the connector’s shape (Number of terminals etc.), so check the position before inserting it.



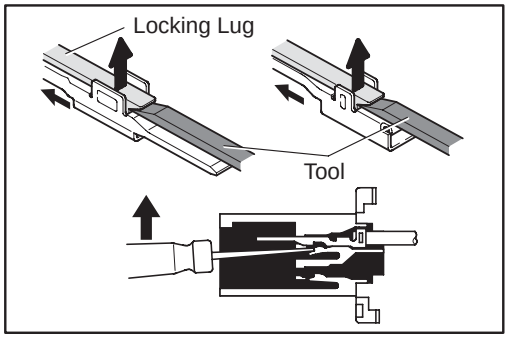
”Case 2”

Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.

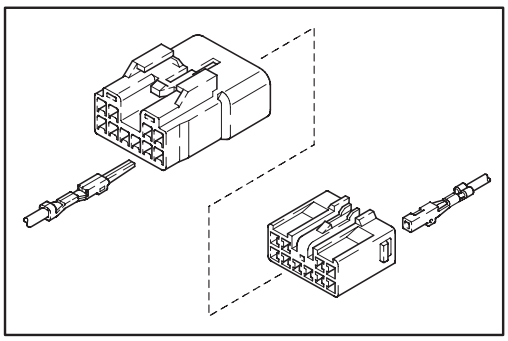
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Push the terminal retainer down to the temporary lock position.



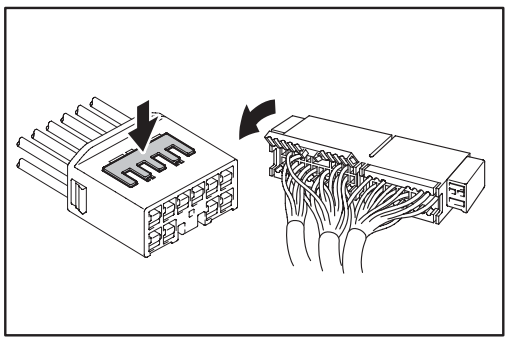
(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:
1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.



(b) Push the secondary locking device or terminal retainer in to the full lock position.

5. CONNECT CONNECTOR

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ABBREVIATIONS

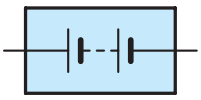
The following abbreviations are used in this manual.

2WD	=	Two Wheel Drive Vehicles
4WD	=	Four Wheel Drive Vehicles
A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
ACIS	=	Acoustic Control Induction System
CAN	=	Controller Area Network
CPU	=	Central Processing Unit
ECU	=	Electronic Control Unit
EPS	=	Electric Motor Power Steering
ESA	=	Electronic Spark Advance
ETCS–i	=	Electronic Throttle Control System–intelligent
FL	=	Fusible Link
IC	=	Integrated Circuit
J/B	=	Junction Block
LED	=	Light Emitting Diode
LH	=	Left–Hand
LSD	=	Limited Slip Differential
R/B	=	Relay Block
RH	=	Right–Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
TVIP	=	TOYOTA Vehicle Intrusion Protection
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
VVT	=	Variable Valve Timing
VVT–i	=	Variable Valve Timing–intelligent
w/	=	With
w/o	=	Without

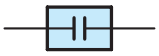
* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

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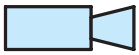
E GLOSSARY OF TERMS AND SYMBOLS



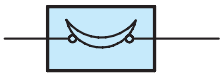
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



CAPACITOR (Condenser)
A small holding unit for temporary storage of electrical voltage.



CIGARETTE LIGHTER
An electric resistance heating element.



CIRCUIT BREAKER
Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.



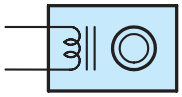
DIODE
A semiconductor which allows current flow in only one direction.



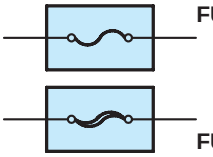
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.



DISTRIBUTOR, IIA
Channels high–voltage current from the ignition coil to the individual spark plugs.



(for Medium Current Fuse)

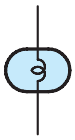
(for High Current Fuse or Fusible Link)

FUSE
A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.

FUSIBLE LINK
A heavy–gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.



GROUND
The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.

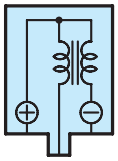


1. SINGLE FILAMENT
2. DOUBLE FILAMENT

HEADLIGHTS
Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament



HORN
An electric device which sounds a loud audible signal.



IGNITION COIL
Converts low–voltage DC current into high–voltage ignition current for firing the spark plugs.



LIGHT
Current flow through a filament causes the filament to heat up and emit light.



LED (LIGHT EMITTING DIODE)
Upon current flow, these diodes emit light without producing the heat of a comparable light.



METER, ANALOG
Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.



METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.

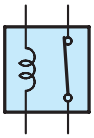


MOTOR
A power unit which converts electrical energy into mechanical energy, especially rotary motion.

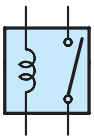
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RELAY

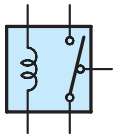
Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.



1. NORMALLY CLOSED



2. NORMALLY OPEN



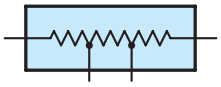
RELAY, DOUBLE THROW

A relay which passes current through one set of contacts or the other.



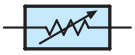
RESISTOR

An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.



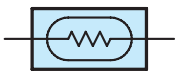
RESISTOR, TAPPED

A resistor which supplies two or more different non adjustable resistance values.



RESISTOR, VARIABLE or RHEOSTAT

A controllable resistor with a variable rate of resistance.
Also called a potentiometer or rheostat.



SENSOR (Thermistor)

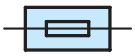
A resistor which varies its resistance with temperature.



(Reed Switch Type)

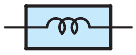
SENSOR, SPEED

Uses magnetic impulses to open and close a switch to create a signal for activation of other components.



SHORT PIN

Used to provide an unbroken connection within a junction block.



SOLENOID

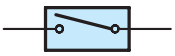
An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.



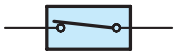
SPEAKER

An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



1. NORMALLY OPEN

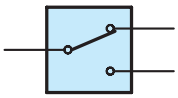


2. NORMALLY CLOSED

Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

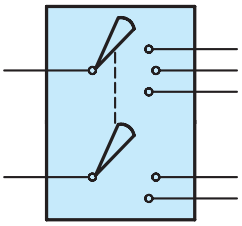
SWITCH, DOUBLE THROW

A switch which continuously passes current through one set of contacts or the other.



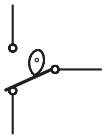
SWITCH, IGNITION

A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.



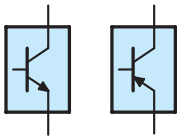
SWITCH, WIPER PARK

Automatically returns wipers to the stop position when the wiper switch is turned off.

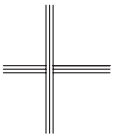


TRANSISTOR

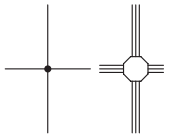
A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".



WIRES



(1) NOT CONNECTED



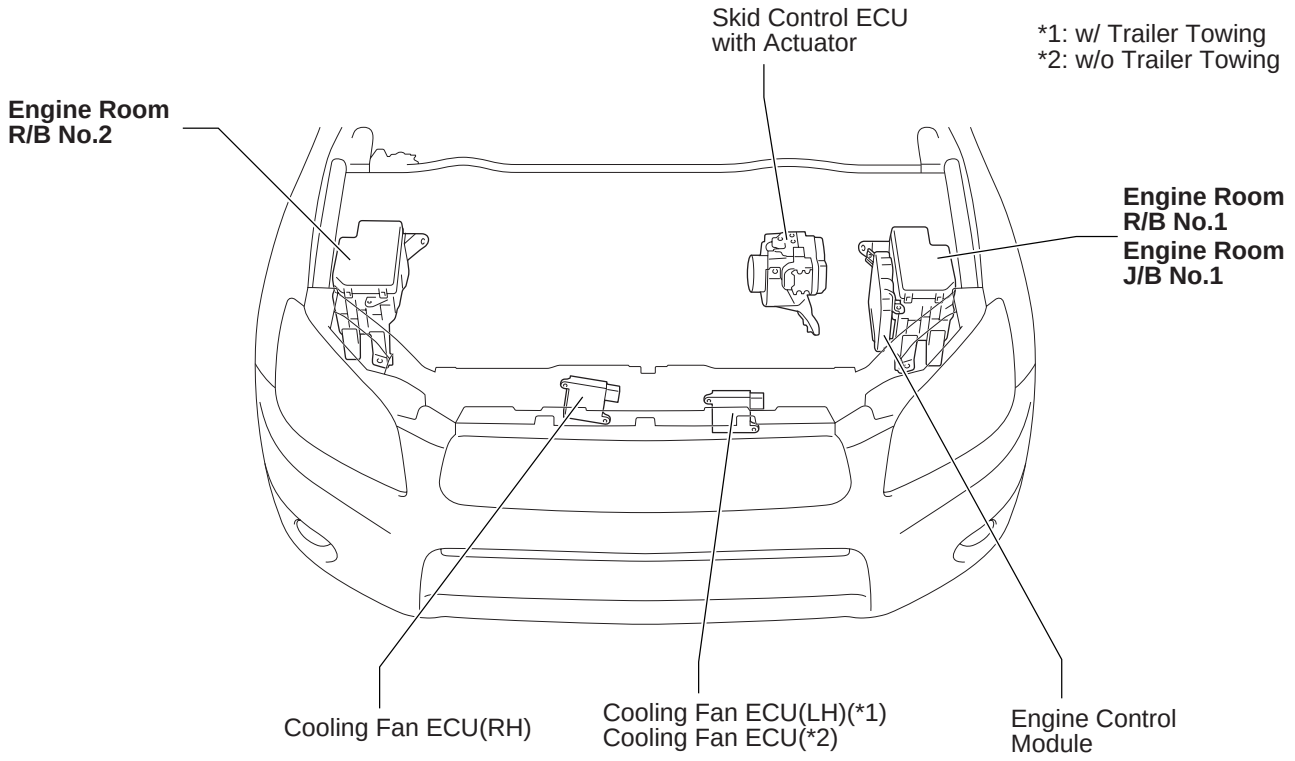
(2) SPLICED

Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (⬡) mark at the junction are spliced (joined) connections.

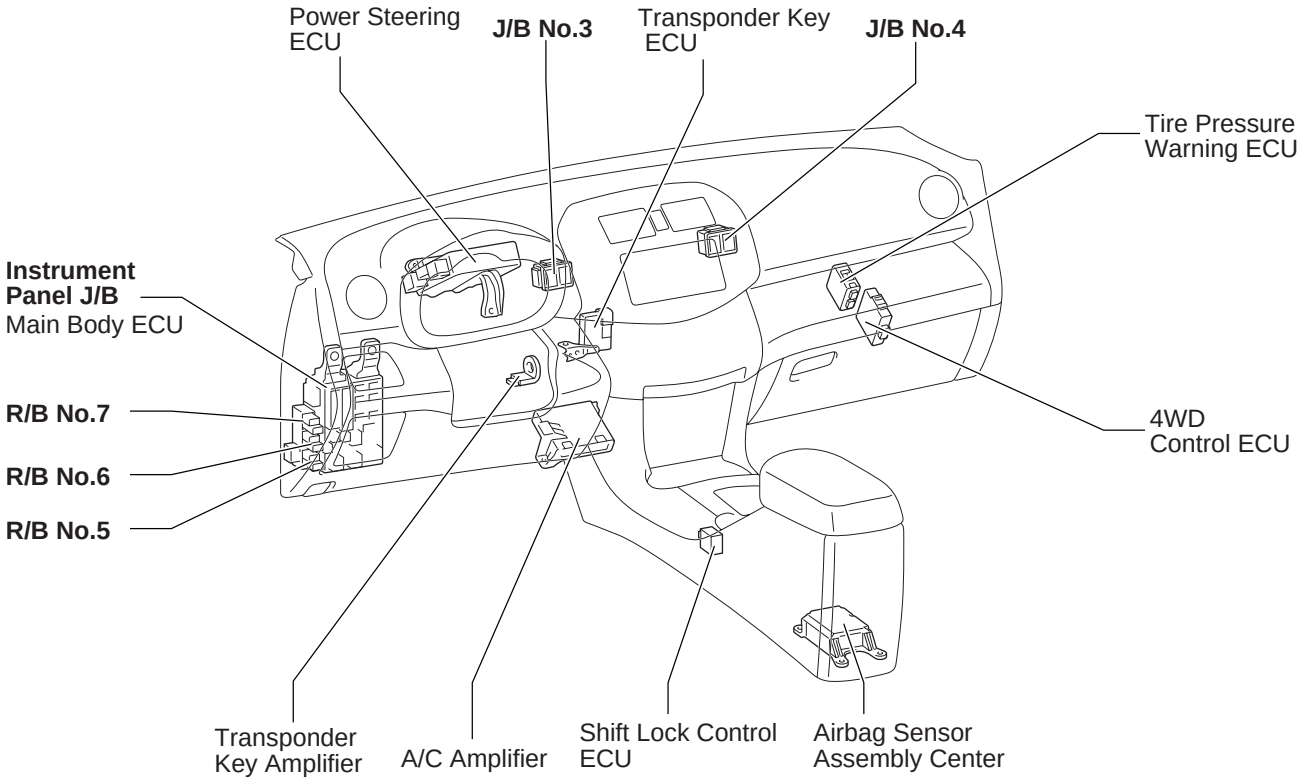
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F RELAY LOCATIONS

[Engine Compartment]

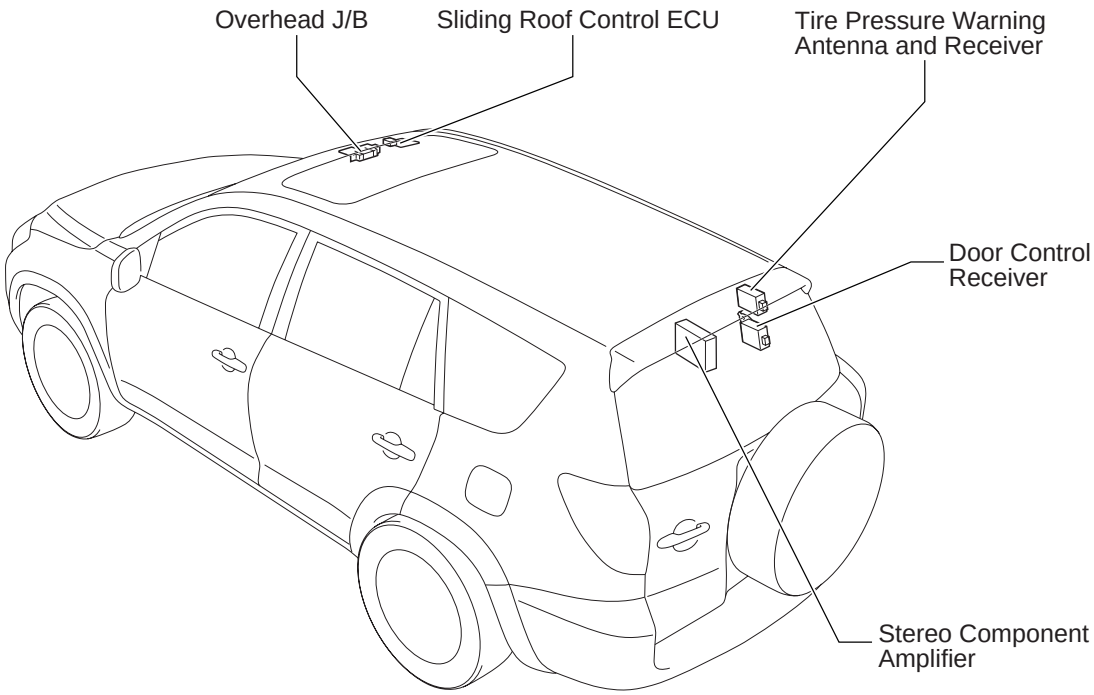


[Instrument Panel]

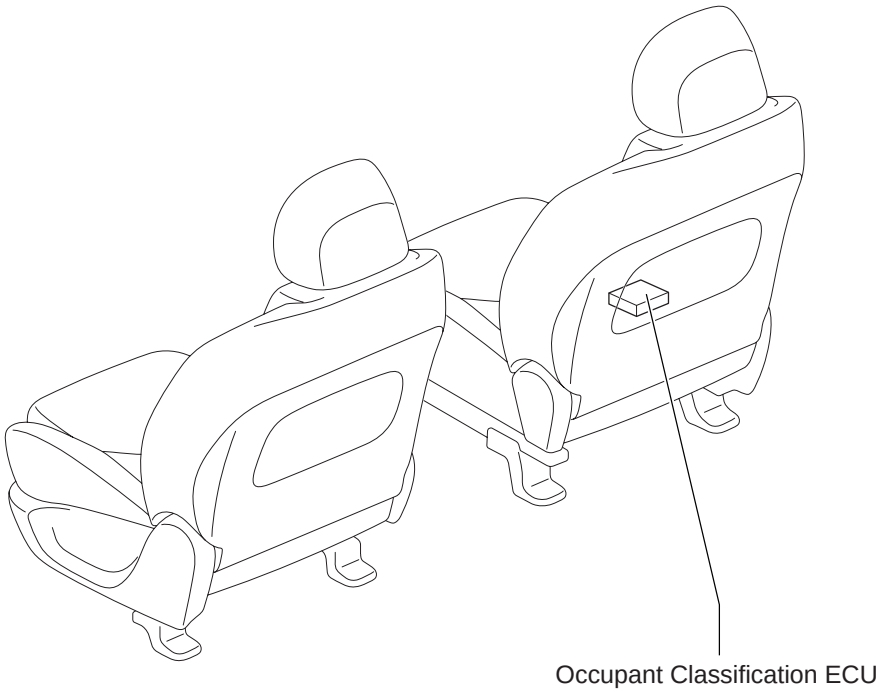


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[Body]



[Seat]

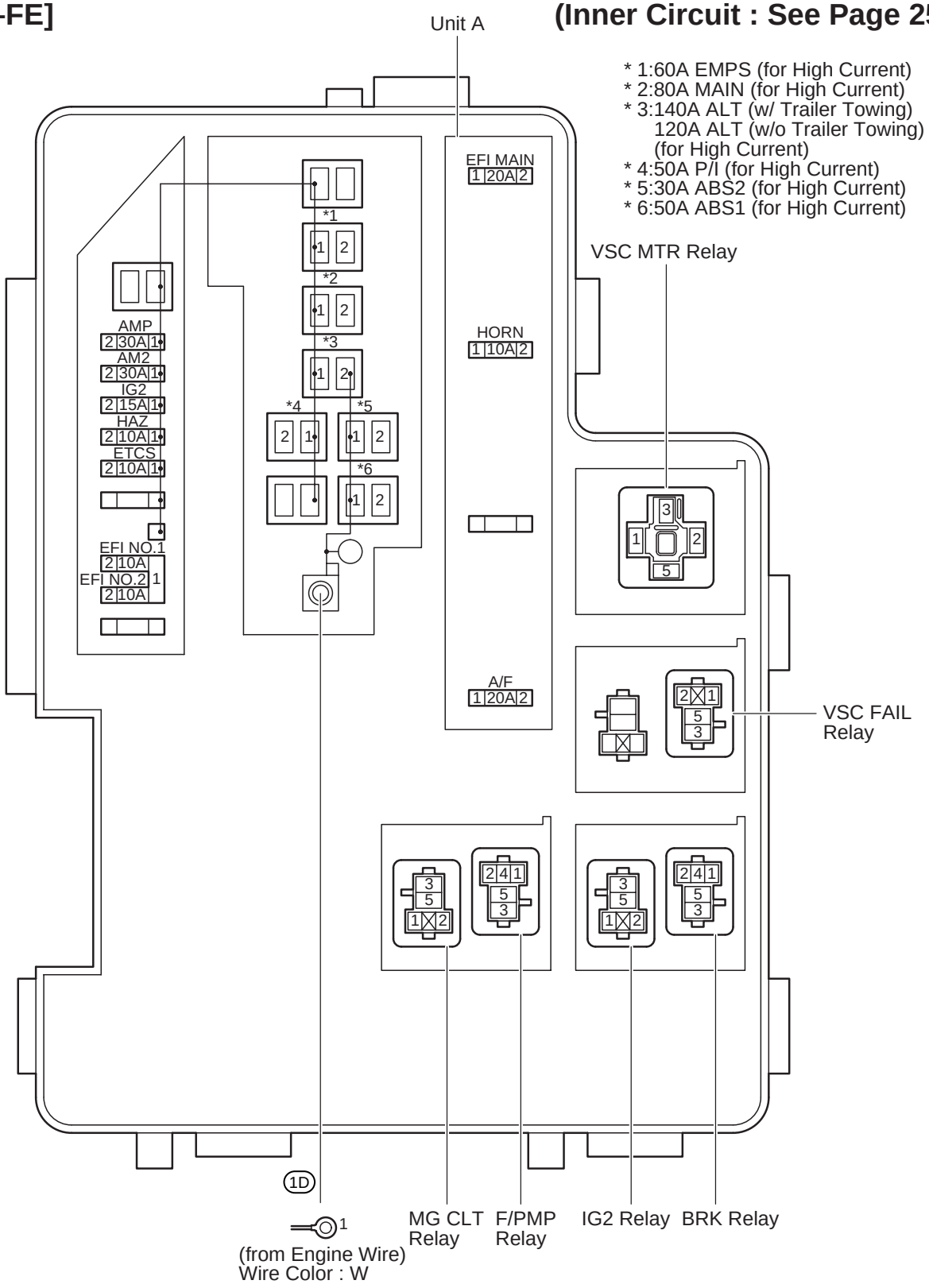


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F RELAY LOCATIONS

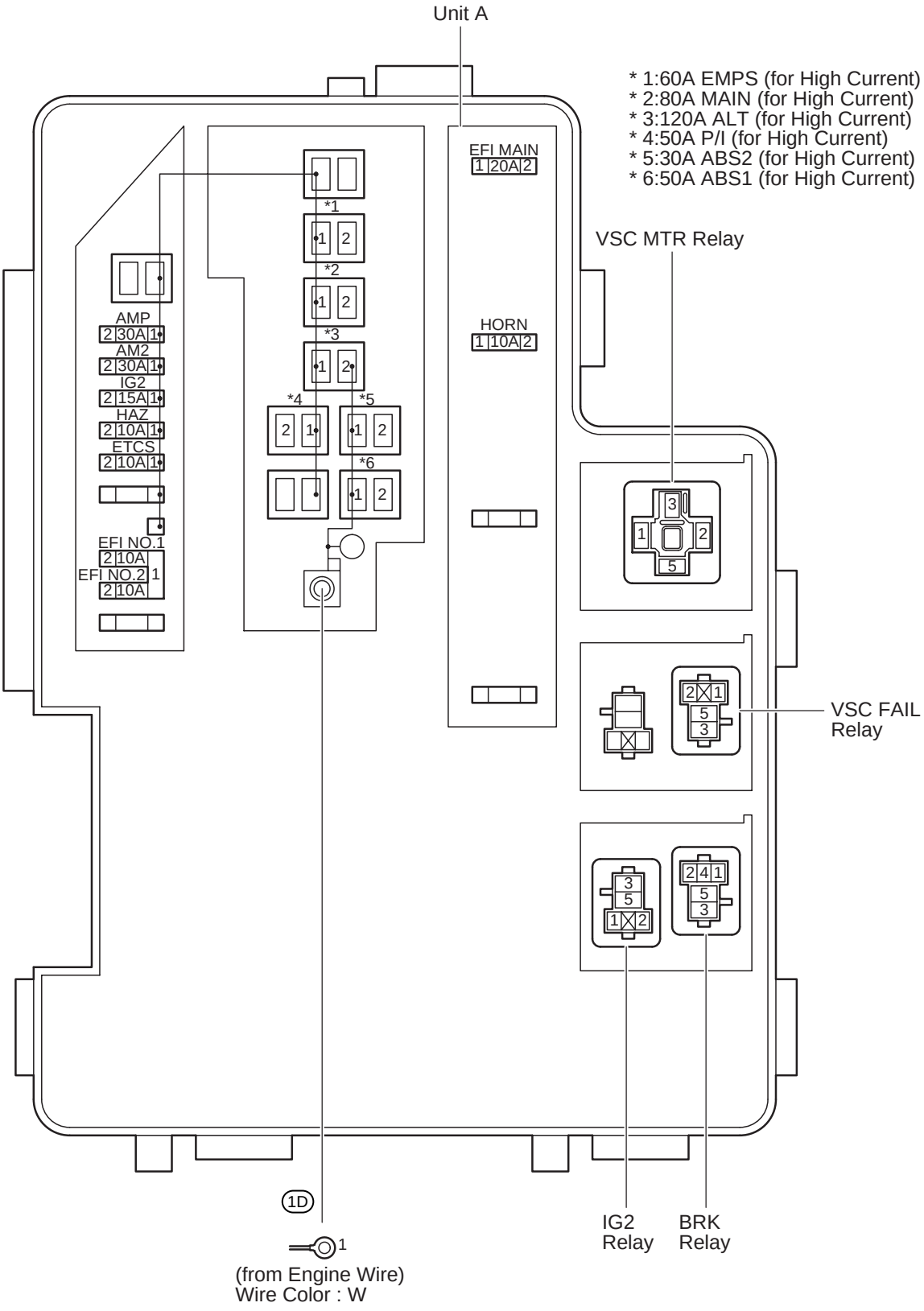
① : Engine Room R/B No.1 ⬭ : Engine Room J/B No.1	Engine Compartment Left (See Page 20)

[2GR–FE] **(Inner Circuit : See Page 25)**



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[2AZ–FE]



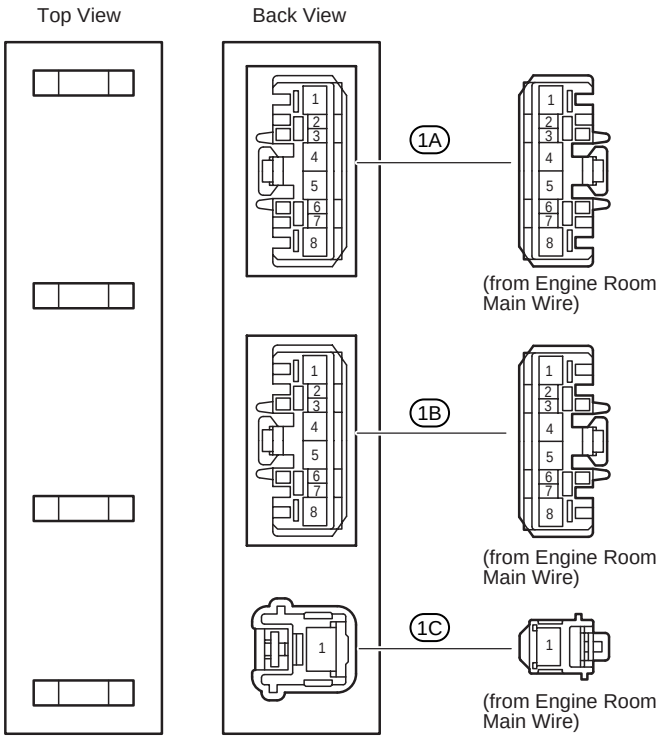
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F RELAY LOCATIONS

① : Engine Room R/B No.1 ⬭ : Engine Room J/B No.1	Engine Compartment Left (See Page 20)

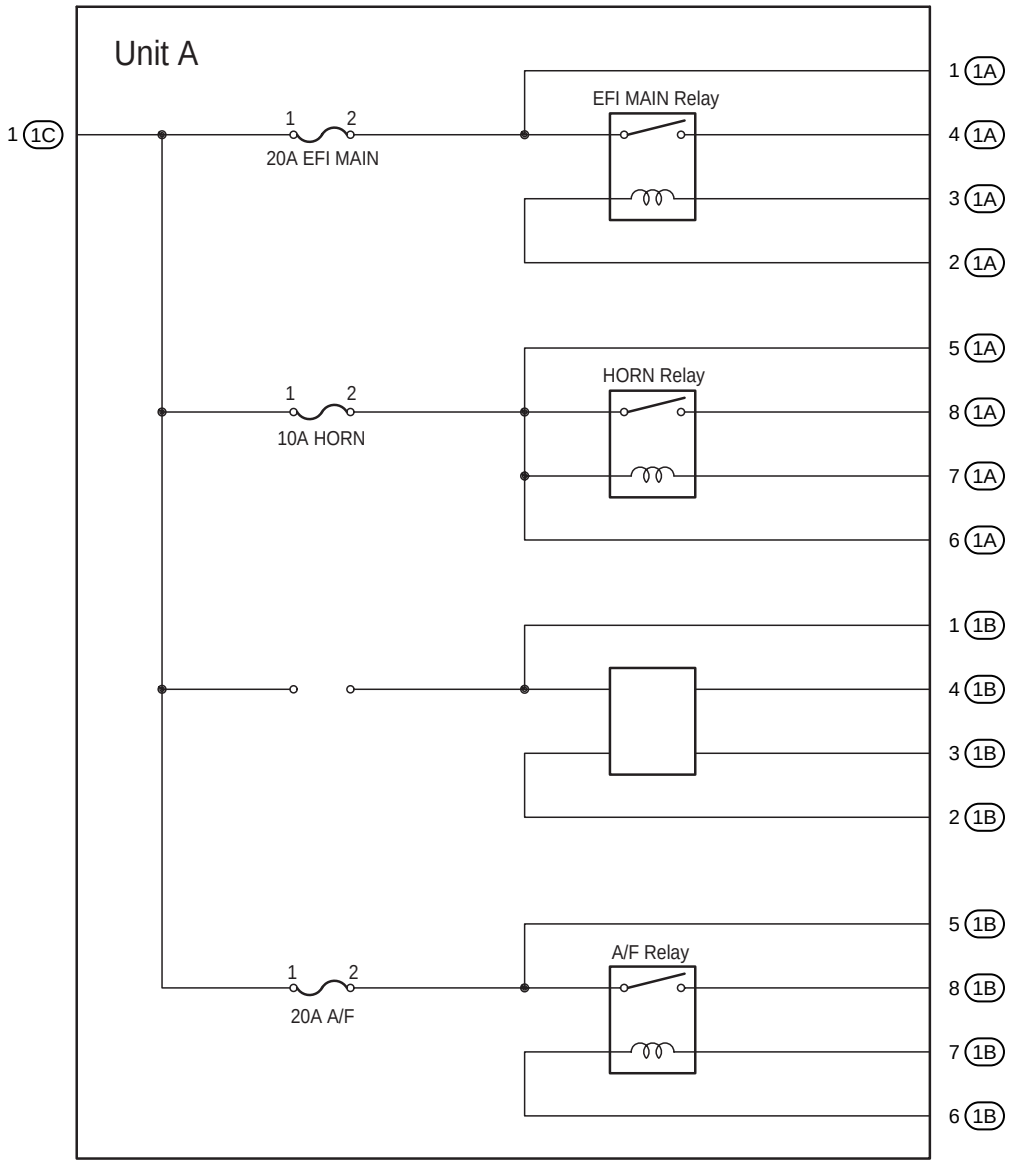
(Inner Circuit : See Page 25)

Unit A



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[Engine Room J/B No.1 Inner Circuit]

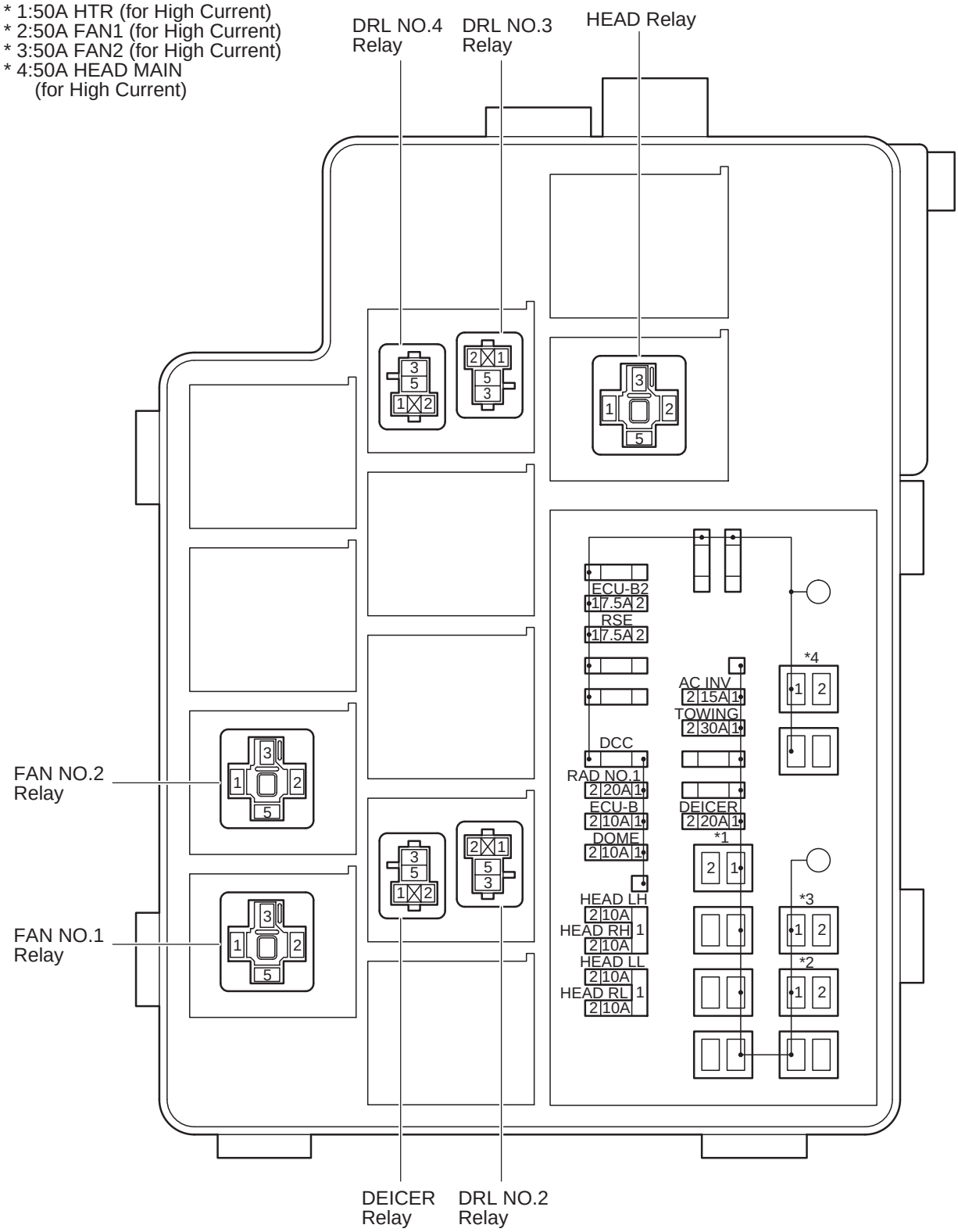


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F RELAY LOCATIONS

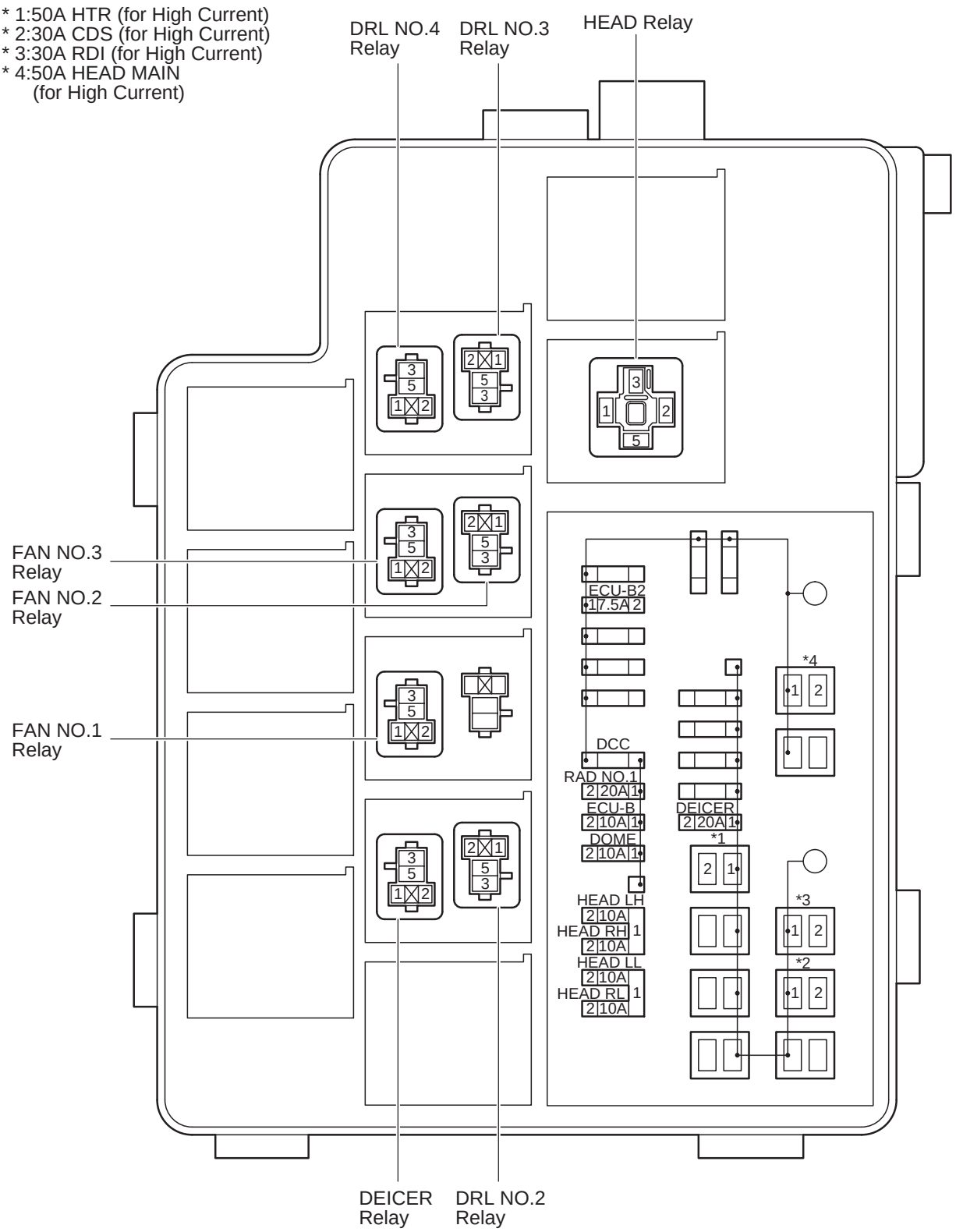
② : Engine Room R/B No.2	Engine Compartment Right (See Page 20)

[2GR–FE]



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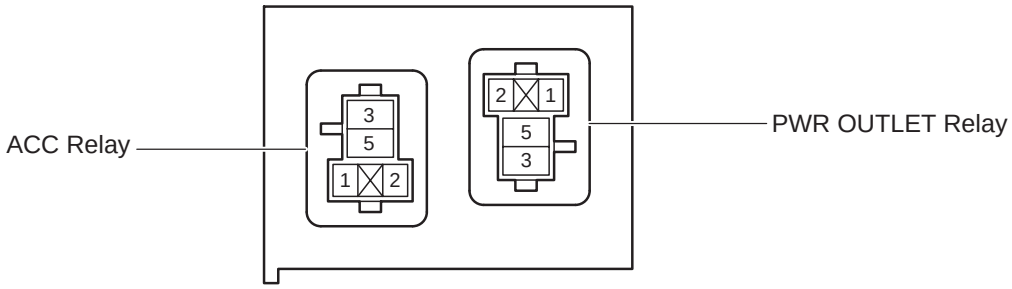
[2AZ–FE]



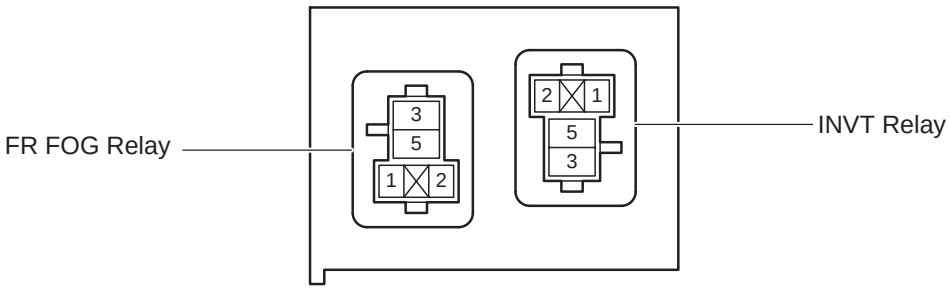
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F RELAY LOCATIONS

⑤ : R/B No.5	Cowl Side Left (See Page 20)

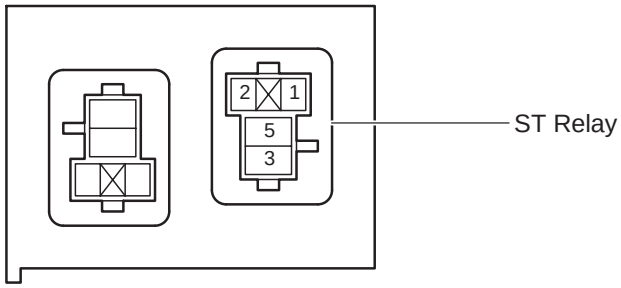


⑥ : R/B No.6	Cowl Side Left (See Page 20)



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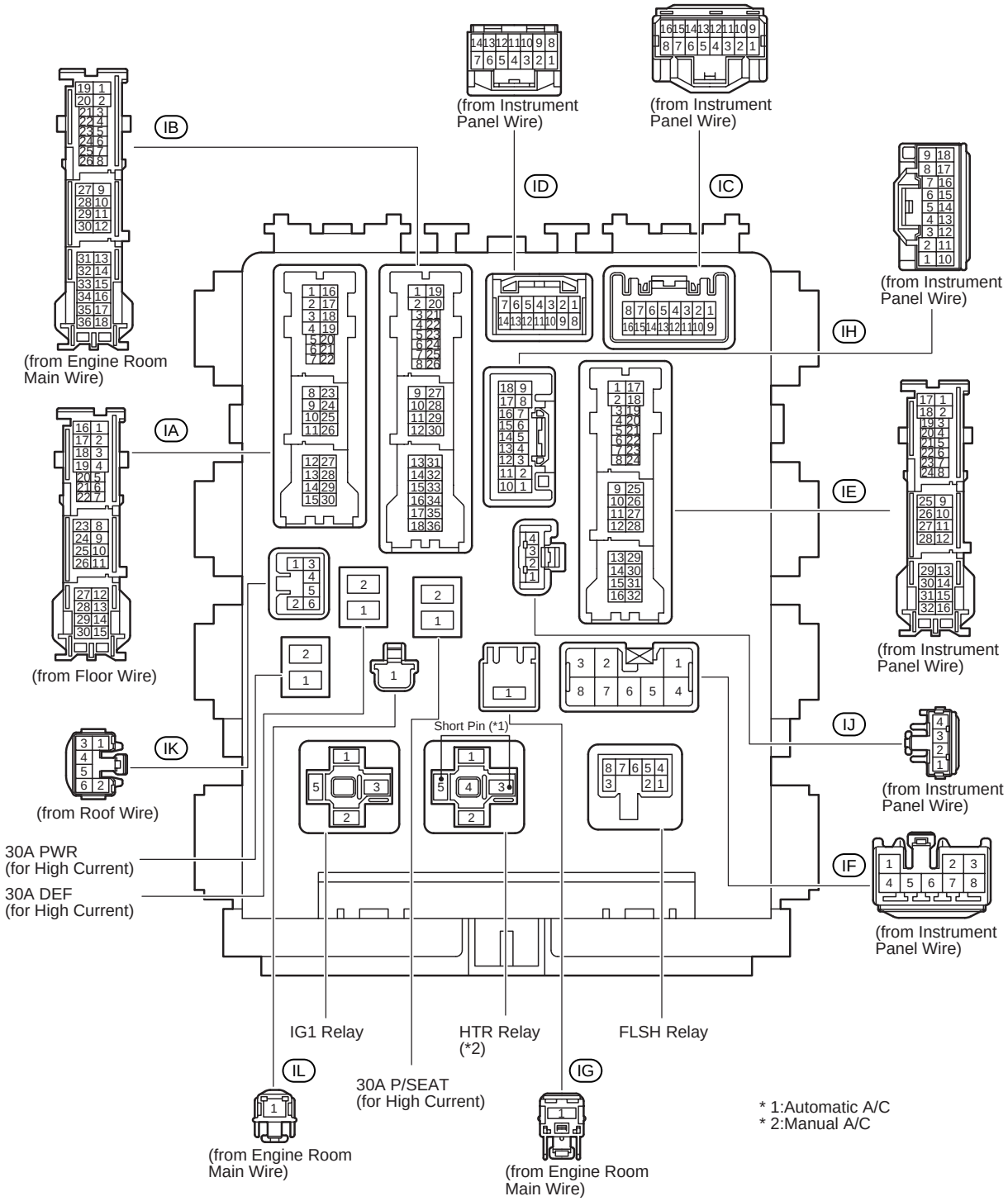
⑦ : R/B No.7	Cowl Side Left (See Page 20)



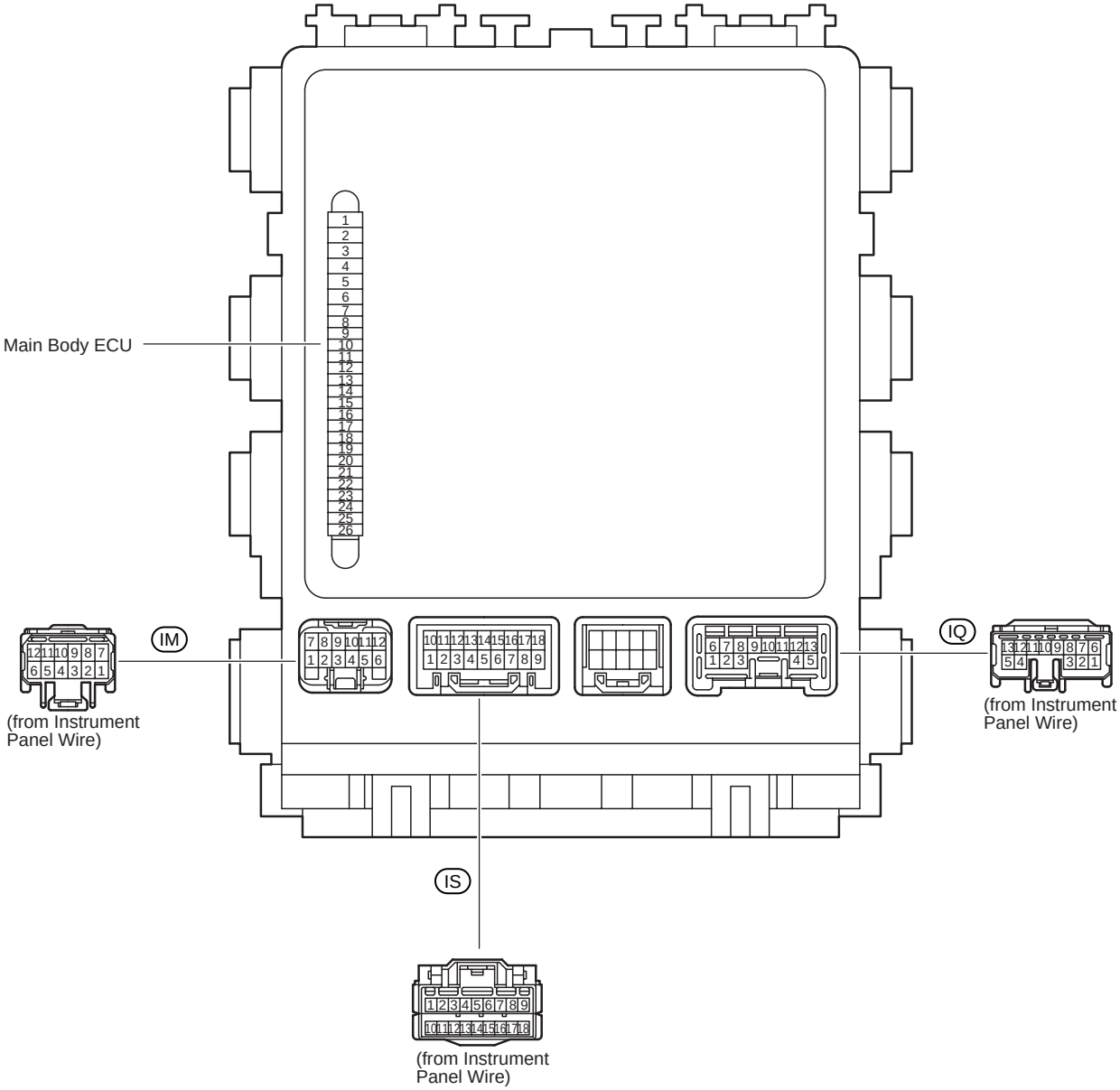
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F RELAY LOCATIONS

: Instrument Panel J/B	Cowl Side Left (See Page 20)



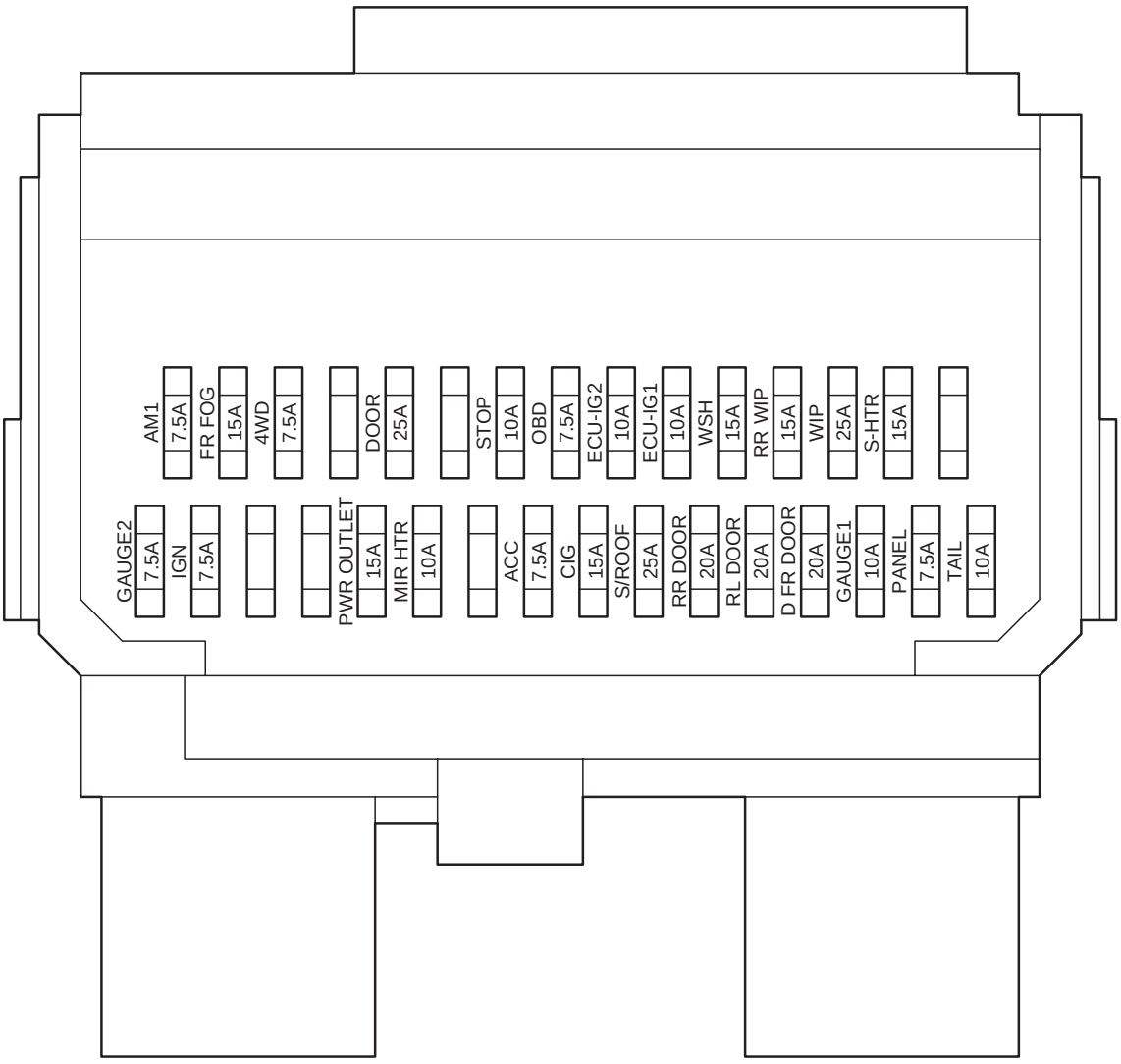
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F RELAY LOCATIONS

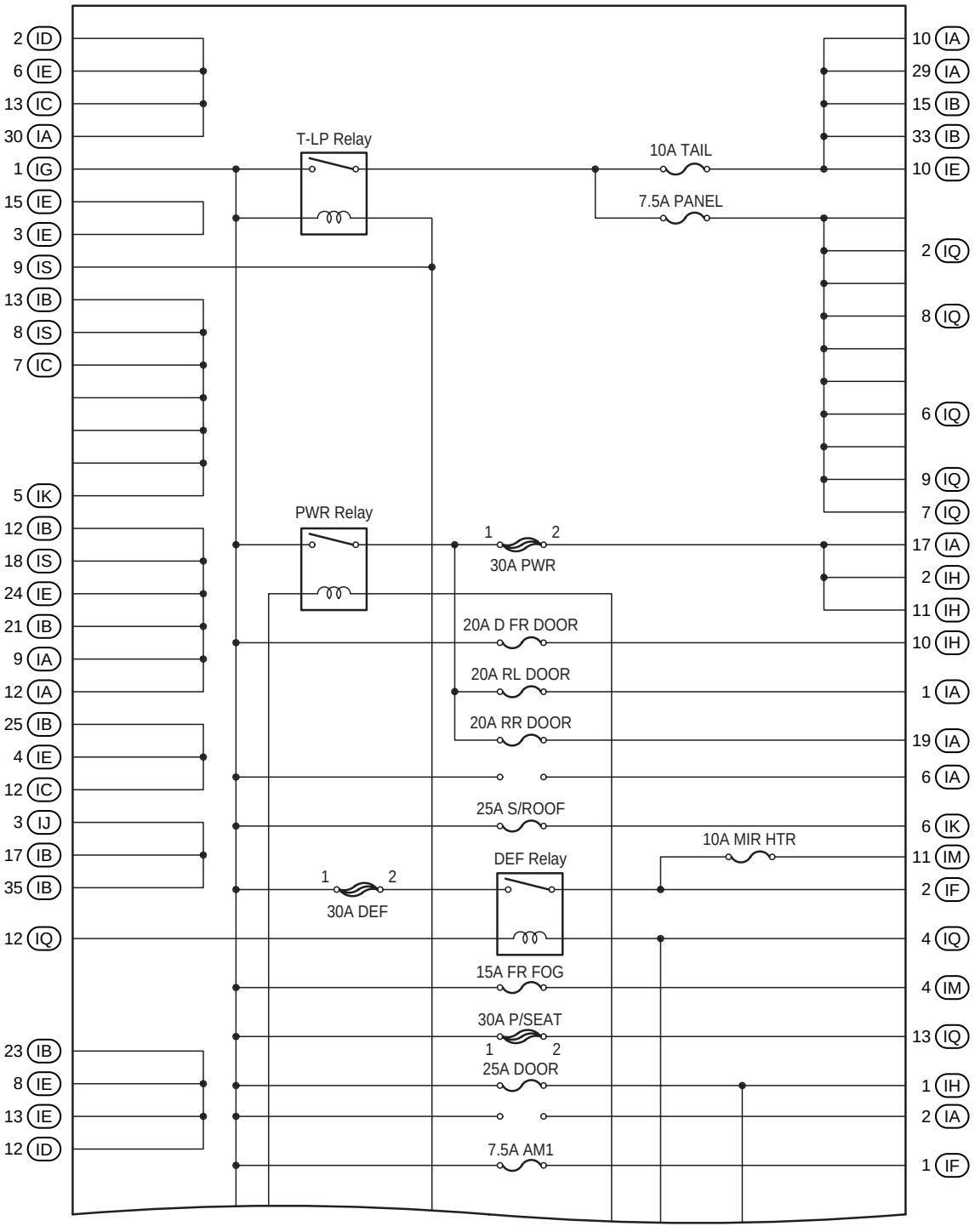
: Instrument Panel J/B	Cowl Side Left (See Page 20)



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[Instrument Panel J/B Inner Circuit]

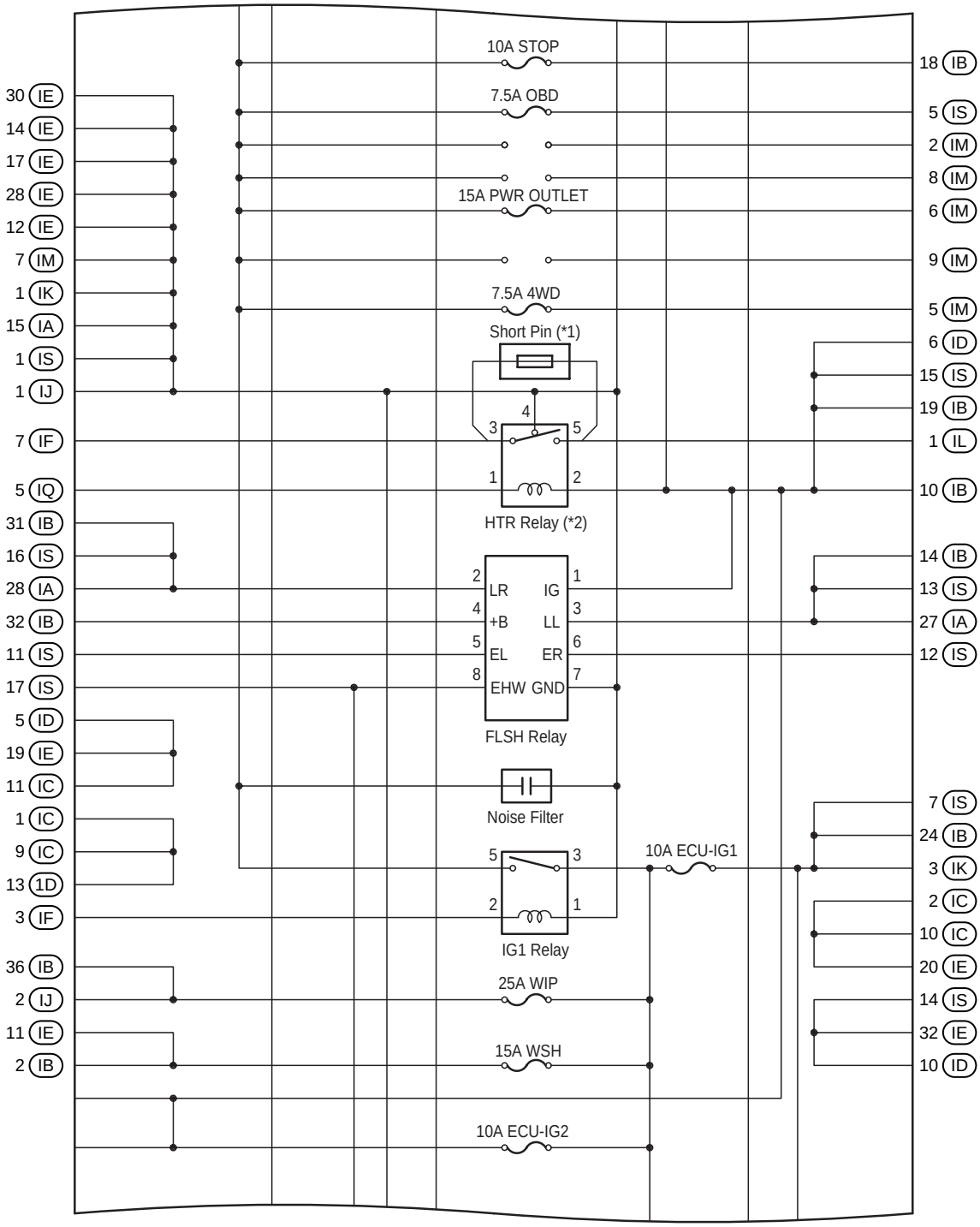


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* 1:Automatic A/C
* 2:Manual A/C

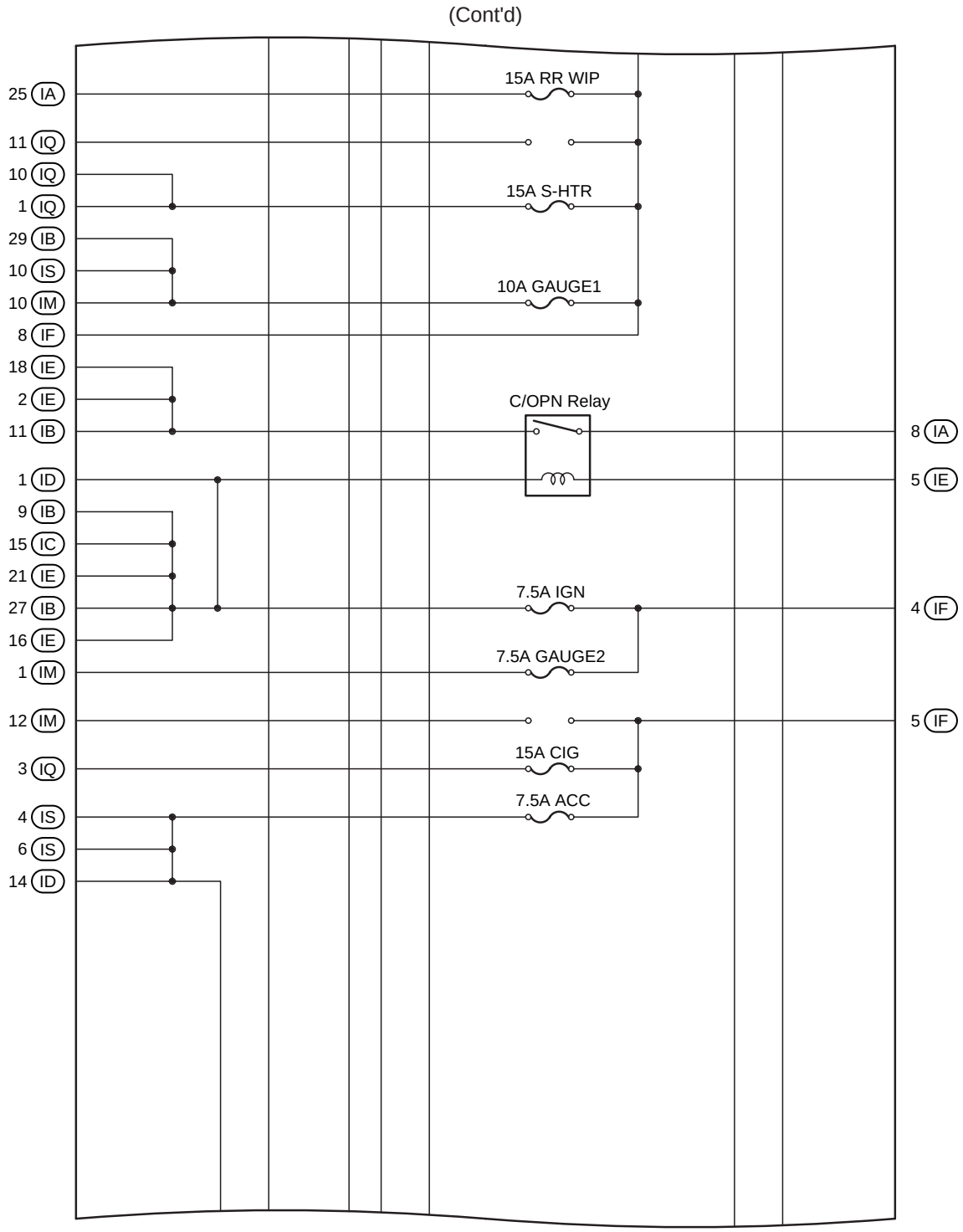
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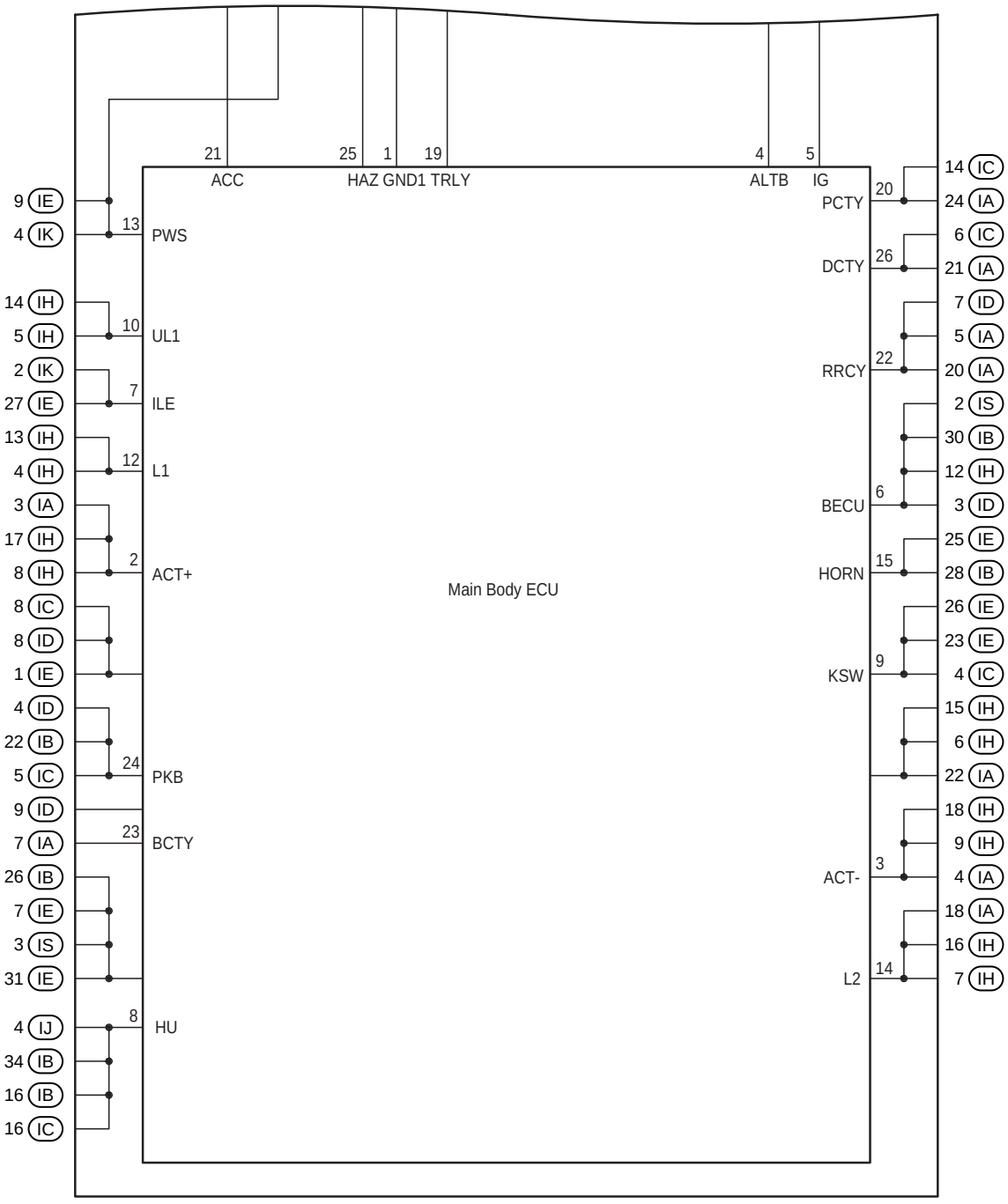
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[Instrument Panel J/B Inner Circuit]



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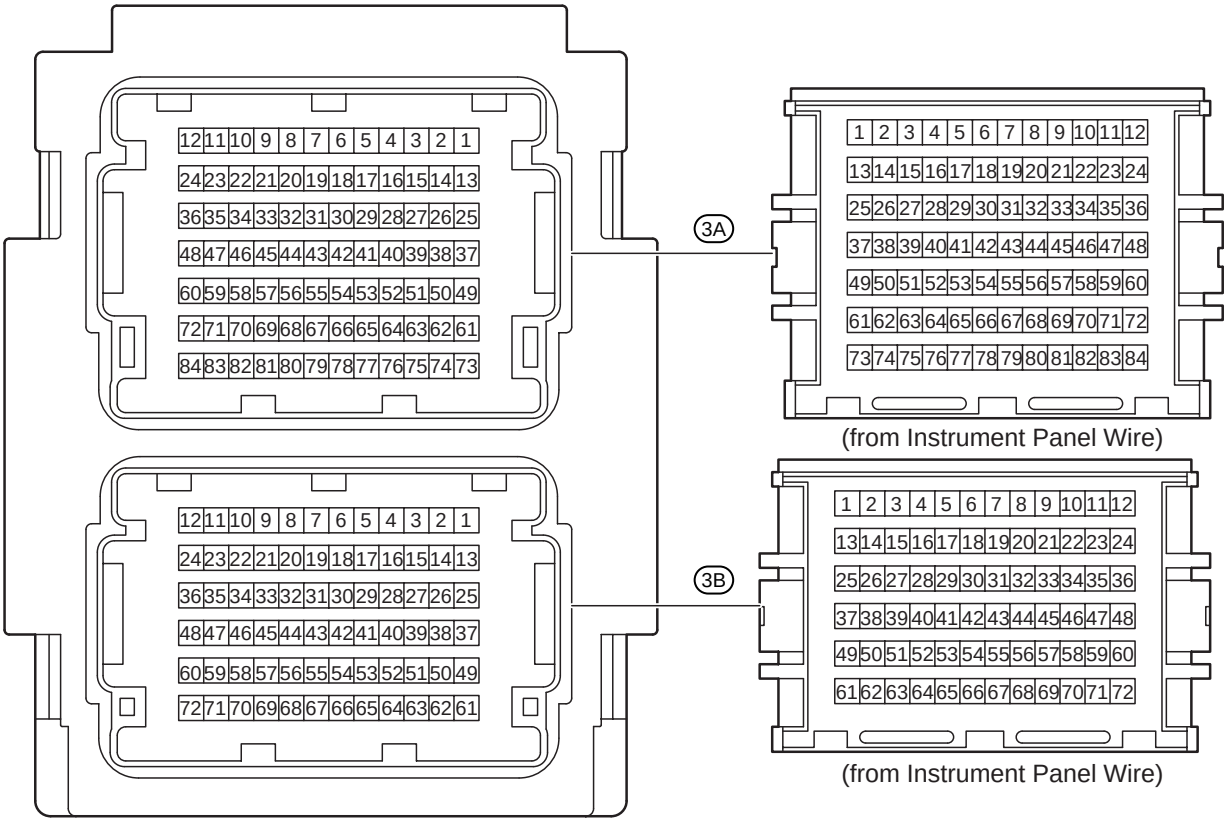
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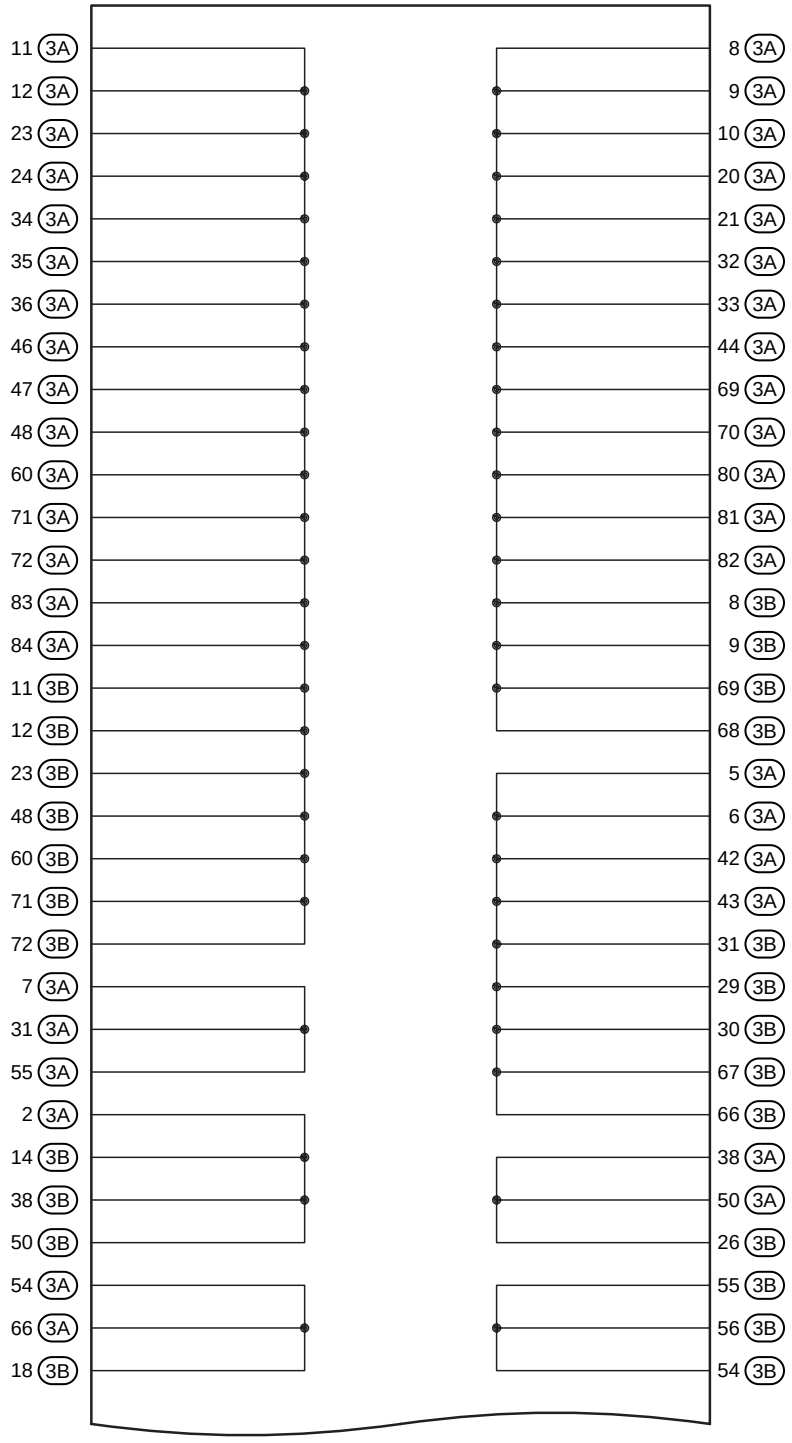
: J/B No.3	Instrument Panel Center (See Page 20)



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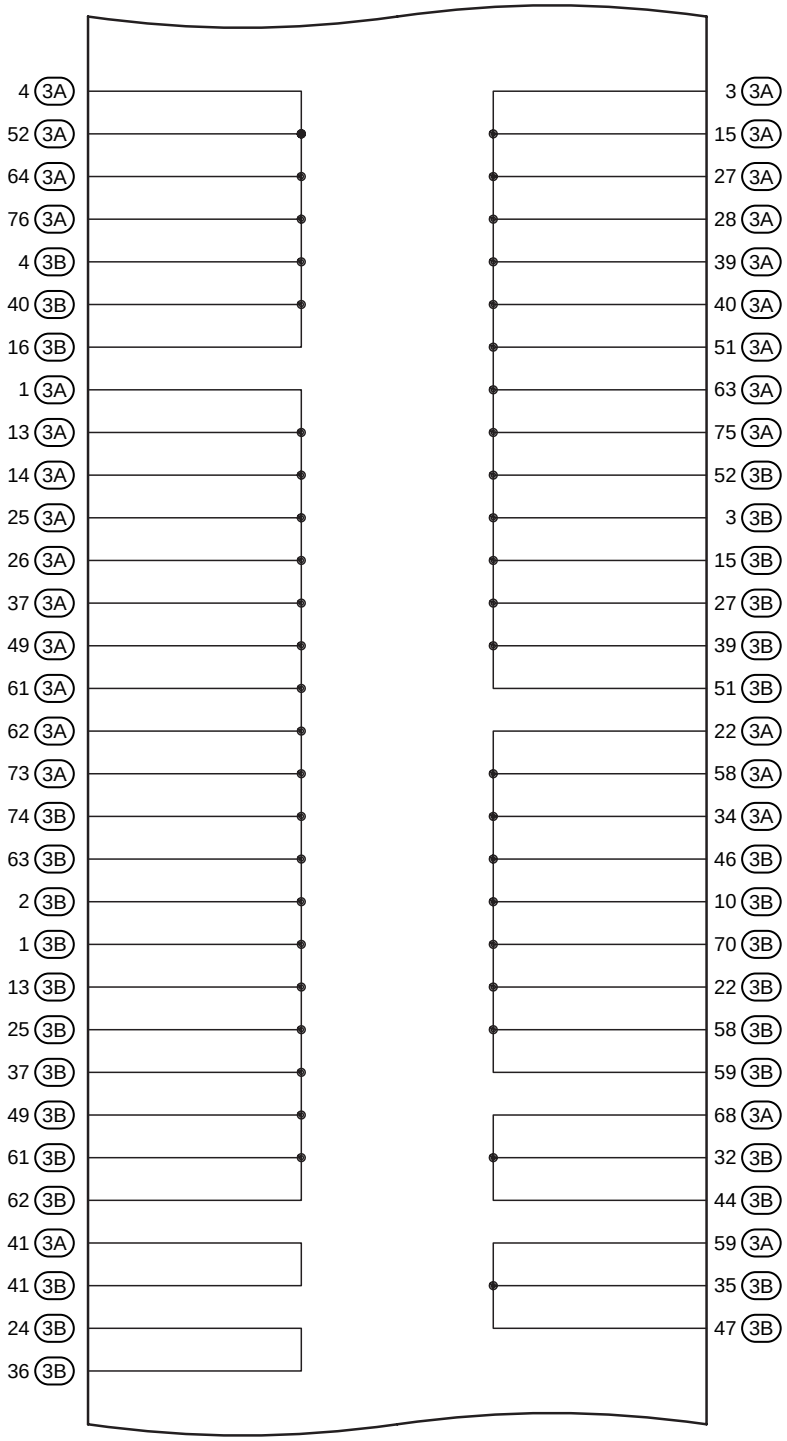
[J/B No.3 Inner Circuit]



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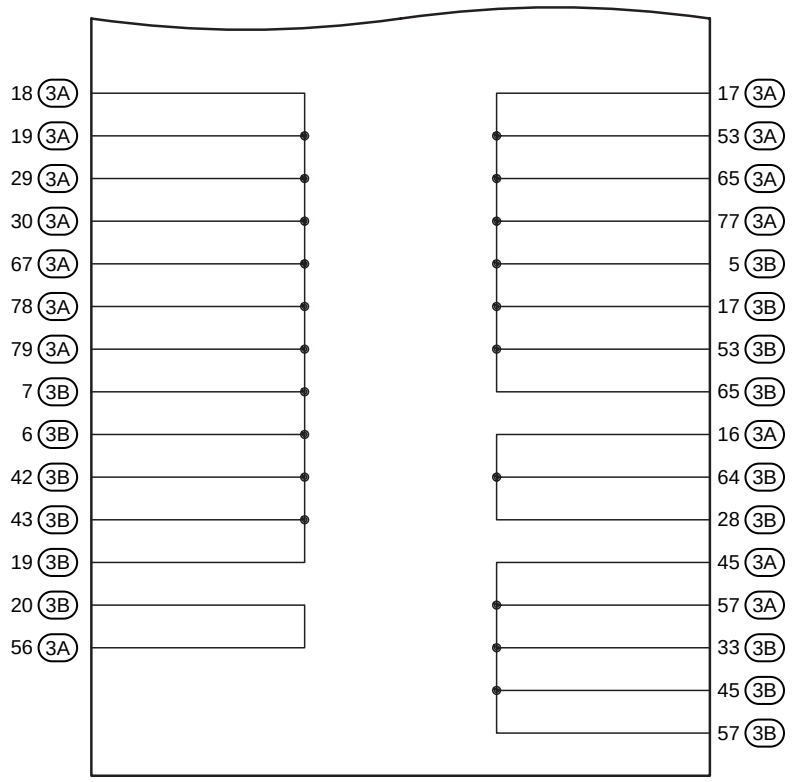


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[J/B No.3 Inner Circuit]

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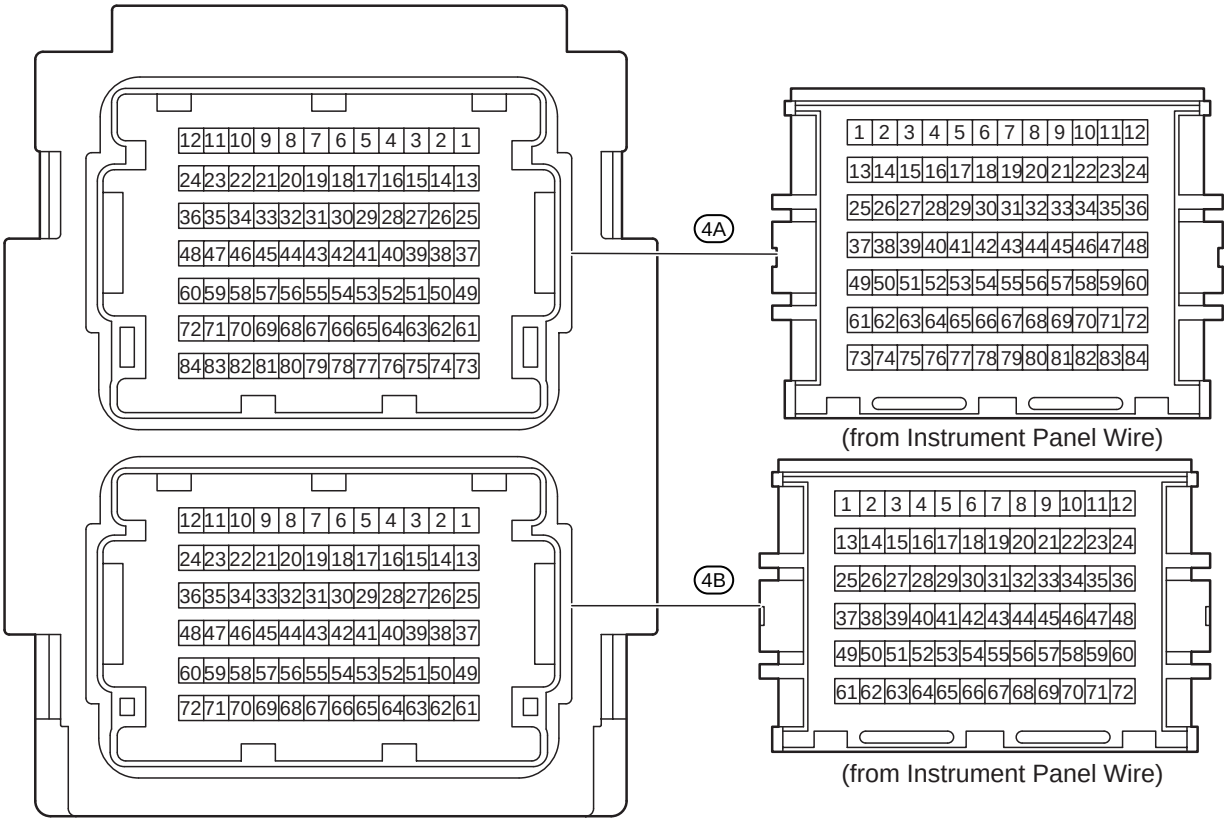


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F RELAY LOCATIONS

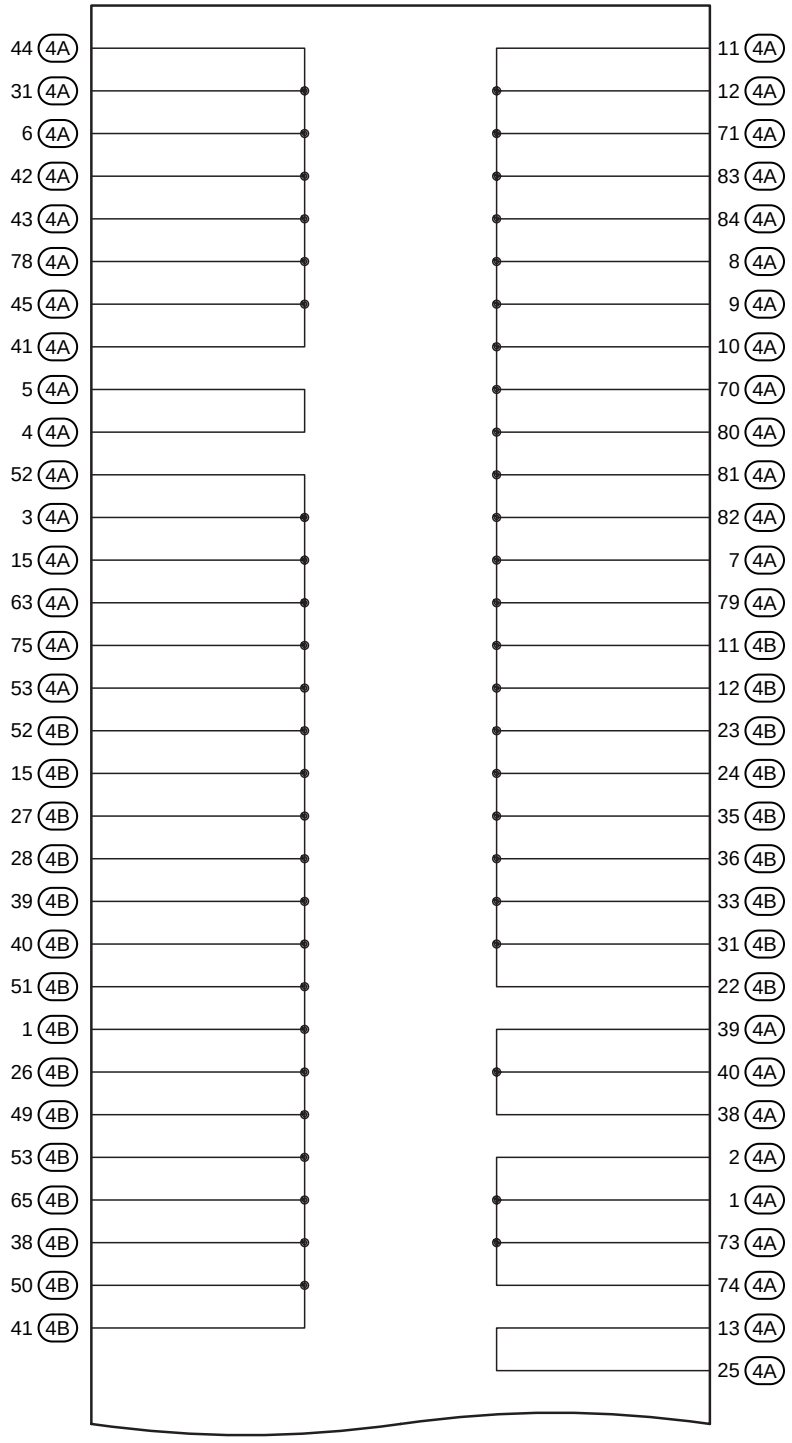
: J/B No.4	Instrument Panel Center (See Page 20)



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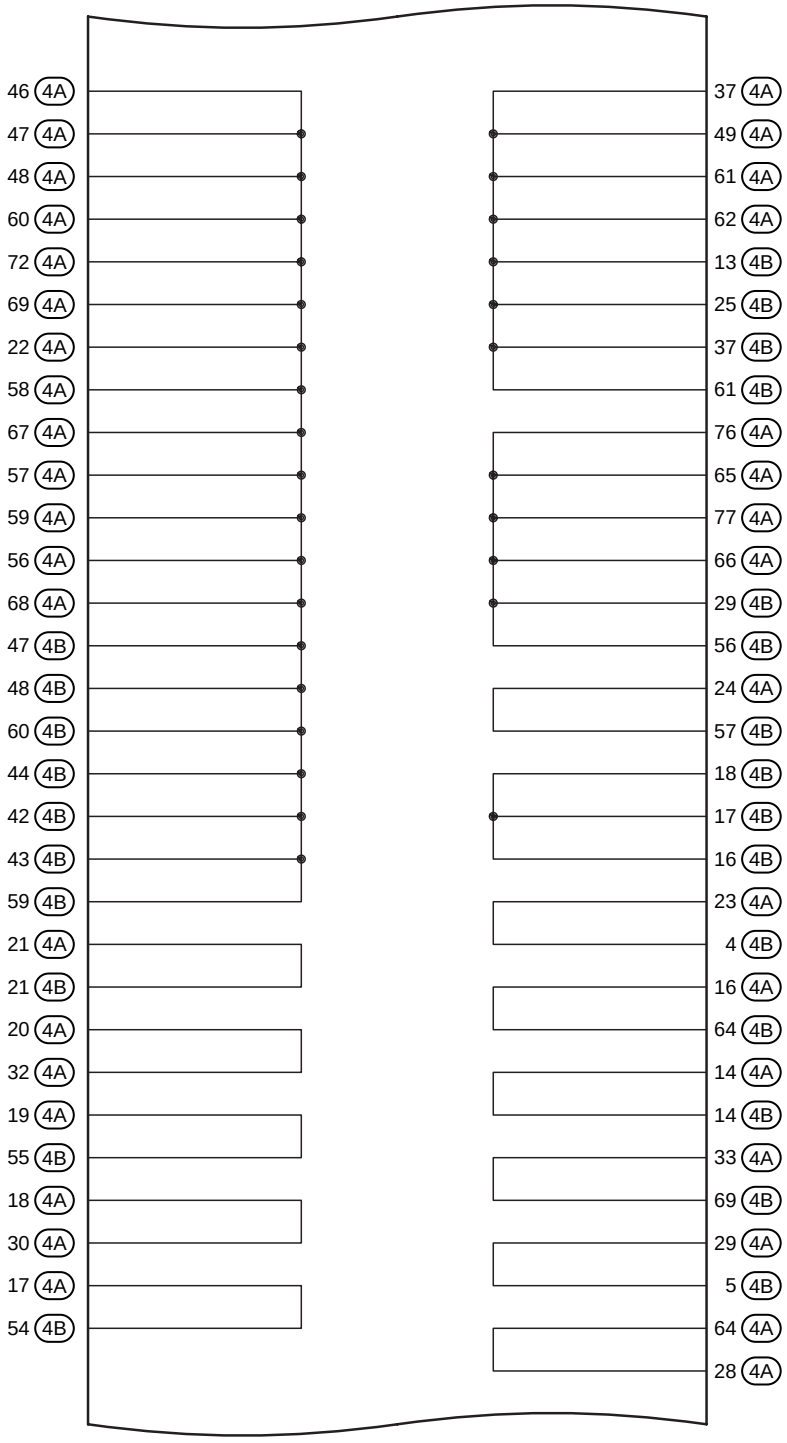
[J/B No.4 Inner Circuit]



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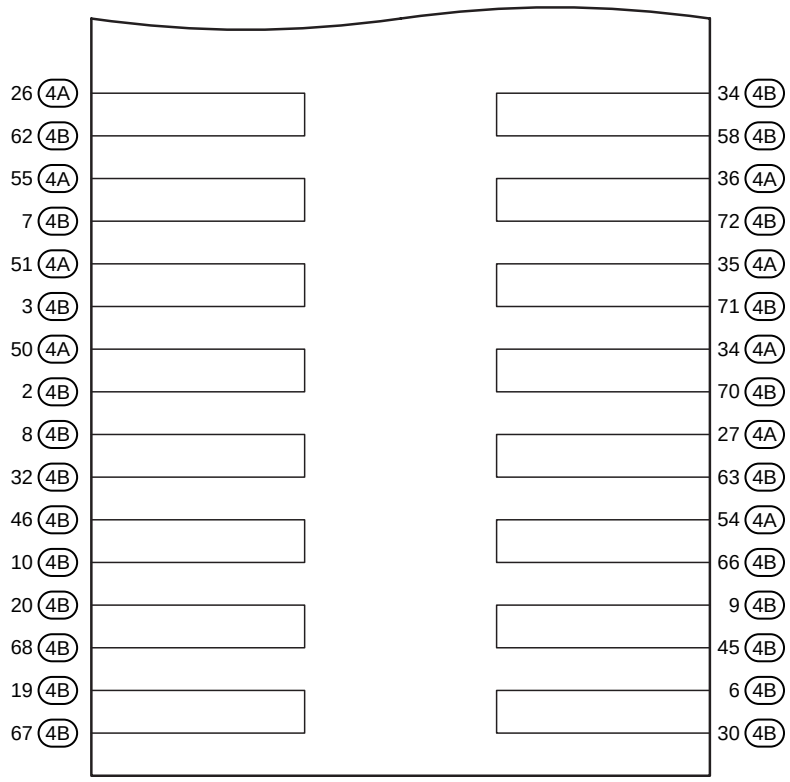


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[J/B No.4 Inner Circuit]

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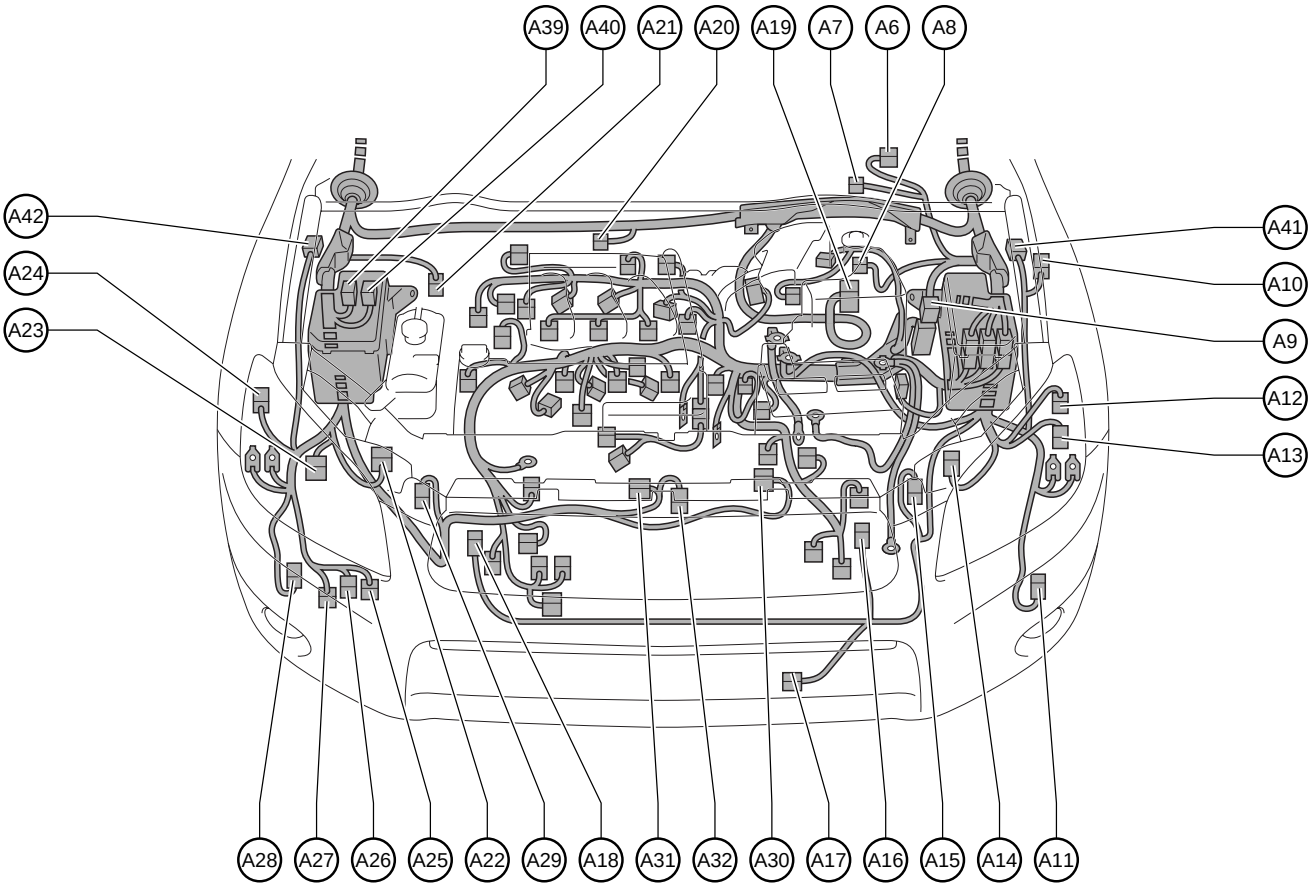


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Position of Parts in Engine Compartment

[2GR–FE]

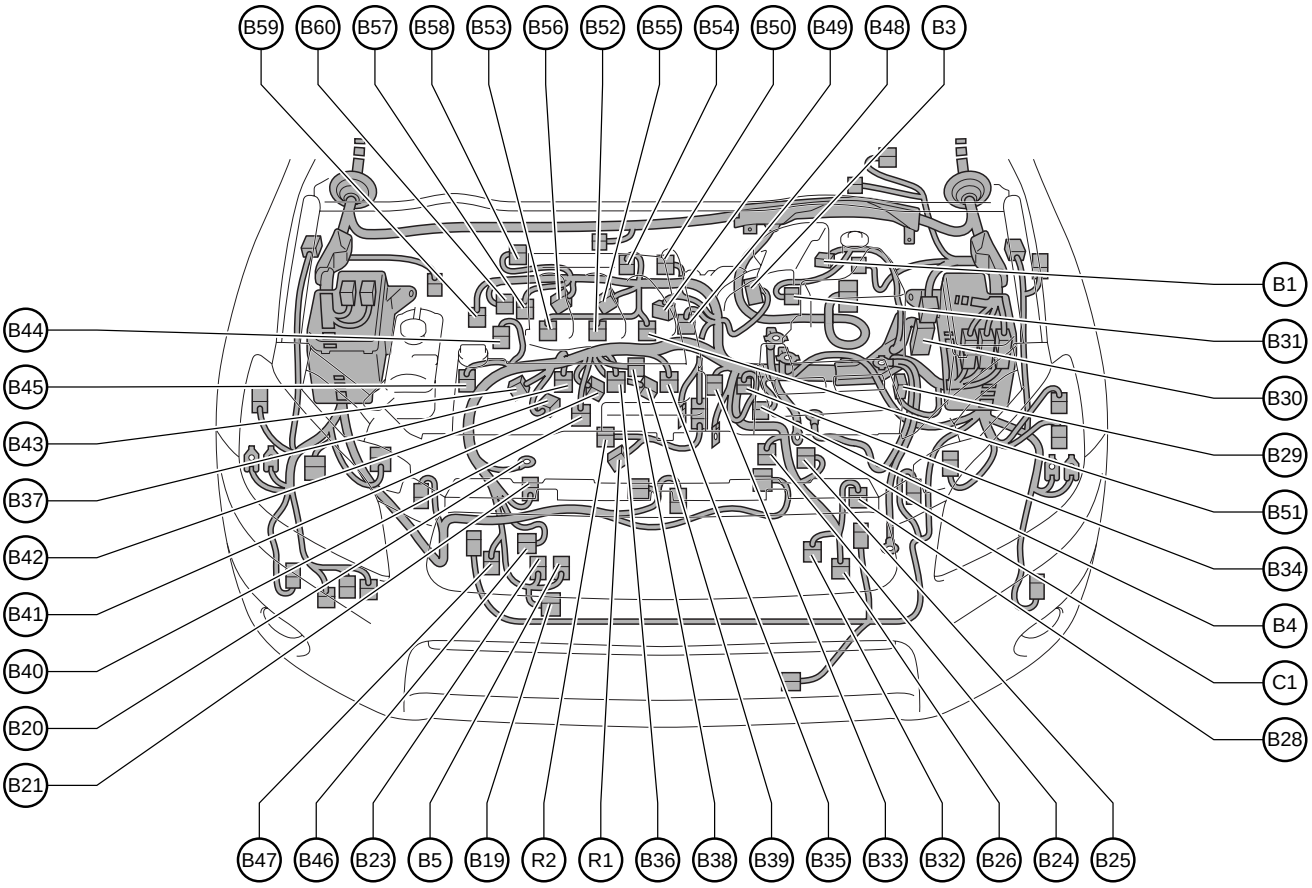


A 6 Windshield Wiper Motor
A 7 Front Wiper Deicer
A 8 Brake Fluid Level Warning SW
A 9 Engine Control Module
A10 Wireless Door Lock Buzzer
A11 Fog Light (Front LH)
A12 Side Marker Lamp (Front LH)
Turn Signal Lamp (Front LH)
A13 Headlamp (LH Low)
A14 Headlamp (LH High)
A15 Airbag Sensor (Front LH)
A16 Horn (Low)
A17 Ambient Temp. Sensor
A18 Horn (High)
A19 Skid Control ECU with Actuator
A20 Fuel Pump Resistor
A21 A/C Pressure Sensor
A22 Headlamp (RH High)
A23 Headlamp (RH Low)
A24 Side Marker Lamp (Front RH)
Turn Signal Lamp (Front RH)
A25 Rear Washer Motor
A26 Washer Level Warning SW
A27 Front Washer Motor
A28 Fog Light (Front RH)
A29 Airbag Sensor (Front RH)
A30 Cooling Fan ECU
A31 Cooling Fan ECU (RH)
A32 Cooling Fan ECU (LH)
A39 Junction Connector
A40 Junction Connector
A41 Speed Sensor (Front LH)
A42 Speed Sensor (Front RH)

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Position of Parts in Engine Compartment

[2GR–FE]



B 1 Mass Air Flow Meter
B 3 Throttle Body Assembly
B 4 Engine Coolant Temp. Sensor
B 5 Engine Oil Pressure SW
B 19 Heated Oxygen Sensor (Bank 2 Sensor 2)
B 20 Generator
B 21 Generator
B 23 A/C Compressor
B 24 Transmission Revolution Sensor (Counter Gear)
B 25 Starter
B 26 Park/Neutral Position SW
B 28 Transmission Revolution Sensor (Turbine)
B 29 Battery Current Sensor
B 30 Engine Control Module
B 31 VSV (Air Intake Control)
B 32 Electronically Controlled Transmission Solenoid
B 33 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
B 34 VSV (Purge)
B 35 Fuel Injector (No.6)
B 36 Fuel Injector (No.4)
B 37 Fuel Injector (No.2)
B 38 Noise Filter (Ignition LH)
B 39 Ignition Coil (No.6)
B 40 VVT Sensor (Bank 2 Exhaust Side)
B 41 Ignition Coil (No.4)
B 42 Ignition Coil (No.2)
B 43 Camshaft Timing Oil Control Valve (LH Exhaust Side)
B 44 Camshaft Timing Oil Control Valve (LH Intake Side)
B 45 VVT Sensor (Bank 2 Intake Side)
B 46 Crankshaft Position Sensor
B 47 A/C Compressor
B 48 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
B 49 Ignition Coil (No.5)
B 50 Noise Filter (Ignition RH)
B 51 Fuel Injector (No.5)
B 52 Fuel Injector (No.3)
B 53 Fuel Injector (No.1)
B 54 VVT Sensor (Bank 1 Exhaust Side)
B 55 Ignition Coil (No.3)
B 56 Ignition Coil (No.1)
B 57 Camshaft Timing Oil Control Valve (RH Exhaust Side)
B 58 VSV (ACIS)
B 59 VVT Sensor (Bank 1 Intake Side)
B 60 Camshaft Timing Oil Control Valve (RH Intake Side)

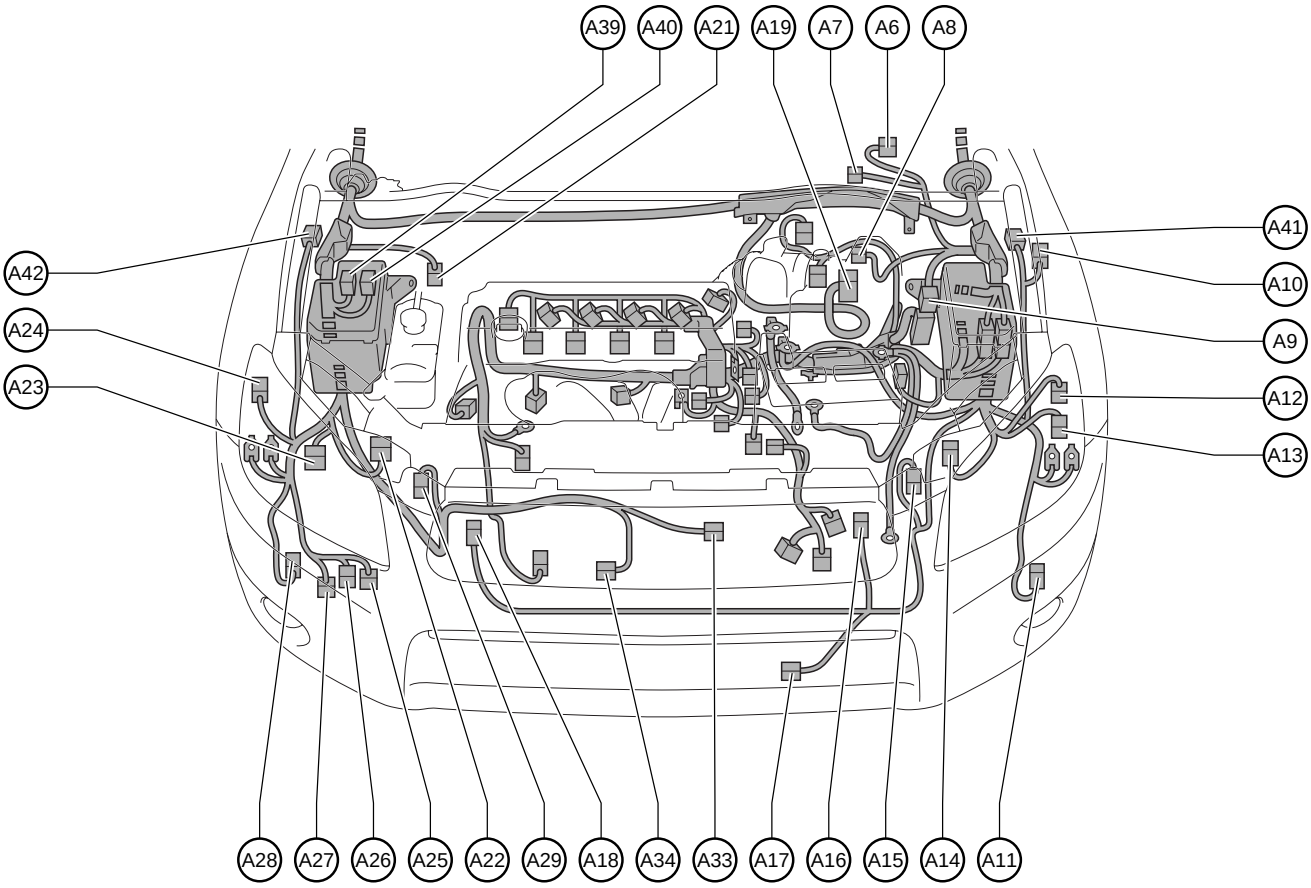
C 1 Starter

R 1 Knock Control Sensor (Bank 2)
R 2 Knock Control Sensor (Bank 1)

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Position of Parts in Engine Compartment

[2AZ–FE]

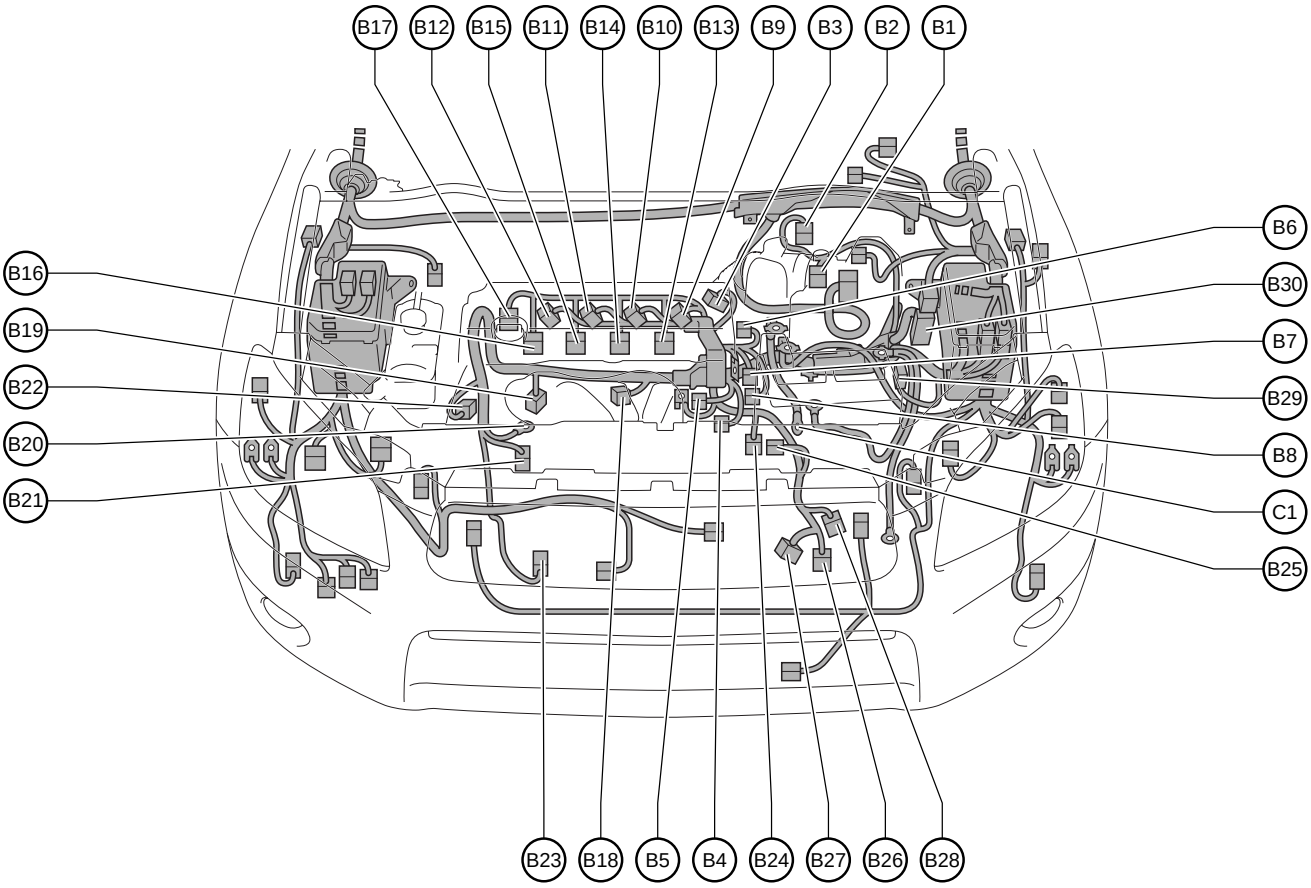


A 6 Windshield Wiper Motor
A 7 Front Wiper Deicer
A 8 Brake Fluid Level Warning SW
A 9 Engine Control Module
A10 Wireless Door Lock Buzzer
A11 Fog Light (Front LH)
A12 Side Marker Lamp (Front LH)
Turn Signal Lamp (Front LH)
A13 Headlamp (LH Low)
A14 Headlamp (LH High)
A15 Airbag Sensor (Front LH)
A16 Horn (Low)
A17 Ambient Temp. Sensor
A18 Horn (High)
A19 Skid Control ECU with Actuator
A21 A/C Pressure Sensor
A22 Headlamp (RH High)
A23 Headlamp (RH Low)
A24 Side Marker Lamp (Front RH)
Turn Signal Lamp (Front RH)
A25 Rear Washer Motor
A26 Washer Level Warning SW
A27 Front Washer Motor
A28 Fog Light (Front RH)
A29 Airbag Sensor (Front RH)
A33 Radiator Fan Motor
A34 A/C Condenser Fan Motor
A39 Junction Connector
A40 Junction Connector
A41 Speed Sensor (Front RH)
A42 Speed Sensor (Front LH)

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Position of Parts in Engine Compartment

[2AZ–FE]

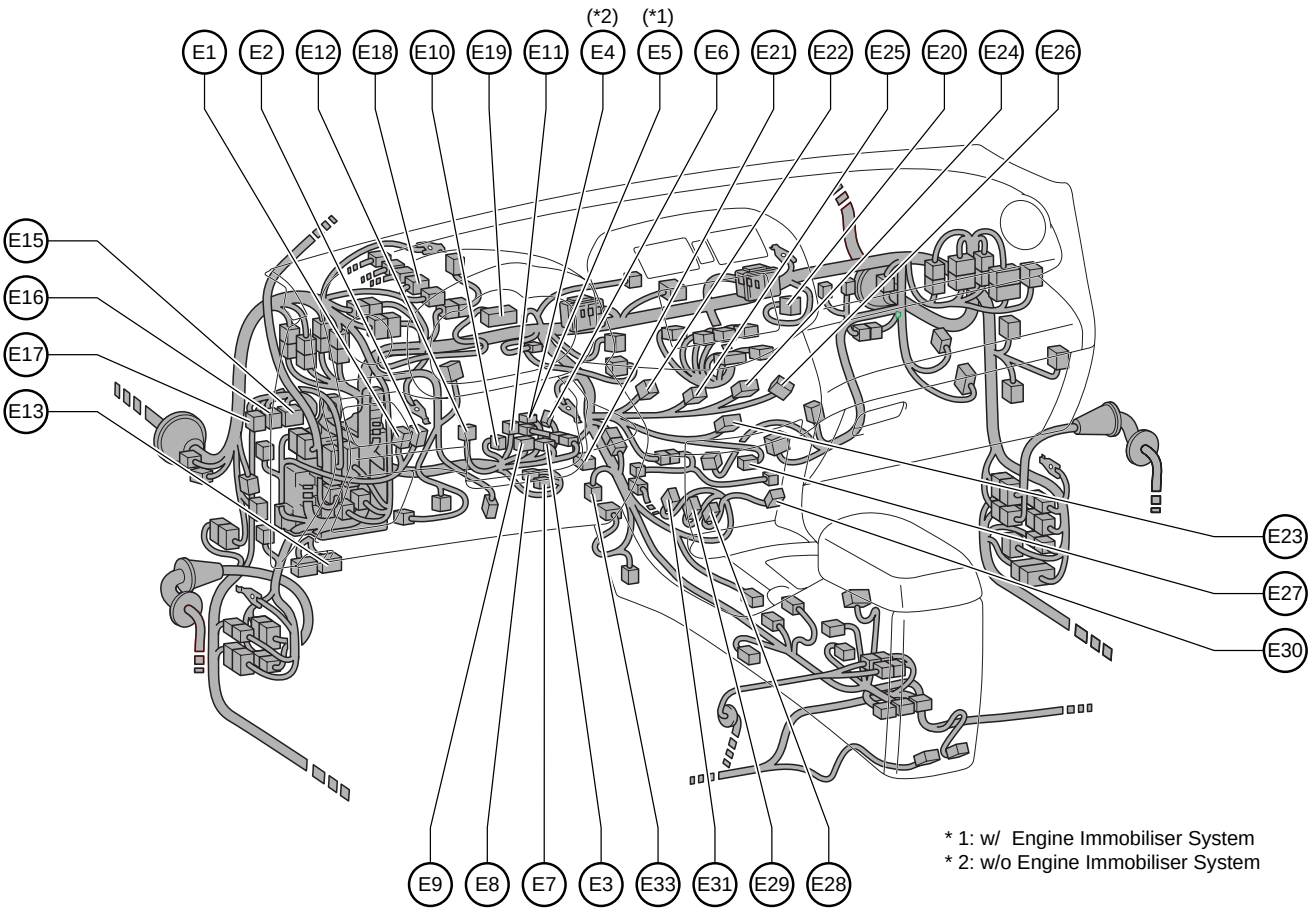


B 1 Mass Air Flow Meter
B 2 VSV (Purge)
B 3 Throttle Body Assembly
B 4 Engine Coolant Temp. Sensor
B 5 Engine Oil Pressure SW
B 6 Camshaft Position Sensor
B 7 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
B 8 Noise Filter (Ignition)
B 9 Ignition Coil (No.4)
B 10 Ignition Coil (No.3)
B 11 Ignition Coil (No.2)
B 12 Ignition Coil (No.1)
B 13 Fuel Injector (No.4)
B 14 Fuel Injector (No.3)
B 15 Fuel Injector (No.2)
B 16 Fuel Injector (No.1)
B 17 Camshaft Timing Oil Control Valve
B 18 Knock Control Sensor (Bank 1)
B 19 Heated Oxygen Sensor (Bank 2 Sensor 2)
B 20 Generator
B 21 Generator
B 22 Crankshaft Position Sensor
B 23 A/C Compressor
B 24 Transmission Revolution Sensor (Counter Gear)
B 25 Starter
B 26 Park/Neutral Position SW
B 27 Electronically Controlled Transmission Solenoid
B 28 Transmission Revolution Sensor (Turbine)
B 29 Battery Current Sensor
B 30 Engine Control Module

C 1 Starter

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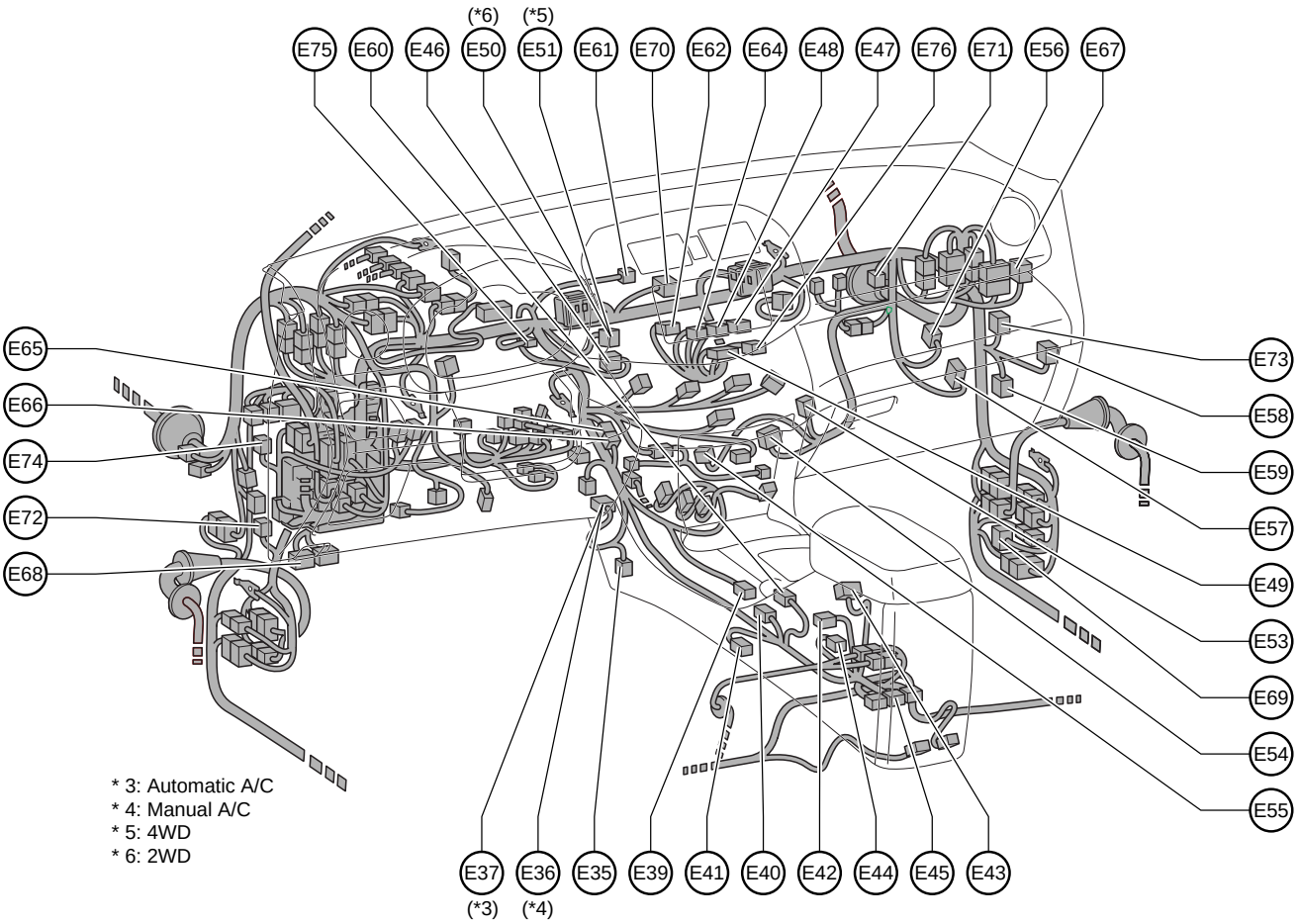
Position of Parts in Instrument Panel



E 1 Main SW
E 2 Light Control Rheostat
E 3 Ignition SW
E 4 Ignition Key Cylinder Lamp
E 5 Transponder Key Amplifier
E 6 Unlock Warning SW
E 7 Spiral Cable
E 8 Airbag Squib (Steering Wheel Pad)
E 9 Windshield Wiper SW Assembly
E10 Windshield Wiper SW Assembly
E11 Steering Sensor
E12 Headlamp Dimmer SW Assembly
E13 Data Link Connector 3
E15 Main Body ECU
E16 Main Body ECU
E17 Main Body ECU
E18 Power Steering ECU
E19 Combination Meter
E20 Hazard Warning Signal SW
E21 A/C Room Temp. Sensor
E22 Clock
E23 Integration Control and Panel Assembly
E24 Integration Control and Panel Assembly
E25 Air Vent Mode Control SW
E26 A/C SW
E27 Front Console Illumination
E28 Front Wiper Deicer SW
E29 Seat Heater SW
E30 Power Outlet Socket (Front)
E31 Downhill Assist Control SW
E33 A/C Thermistor

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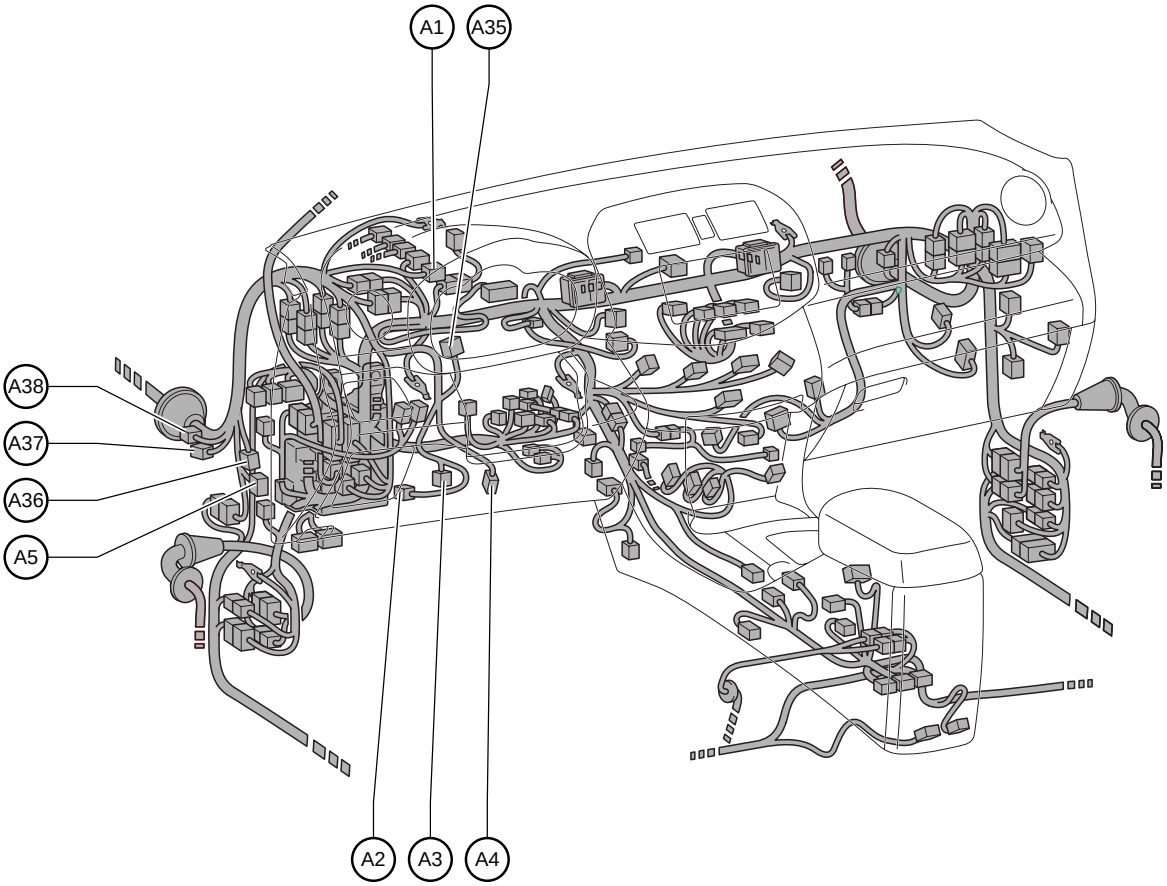
Position of Parts in Instrument Panel



E35 Heated Oxygen Sensor (Bank 1 Sensor 2)
E36 A/C Amplifier
E37 A/C Amplifier
E39 Shift Lock Control ECU
E40 Transmission Control SW
E41 Parking Brake SW
E42 Outer Mirror SW
E43 Power Outlet Socket (Front)
E44 Stereo Jack Adapter
E45 Airbag Sensor Assembly Center
E46 Transponder Key ECU
E47 Radio Receiver Assembly
E48 Radio Receiver Assembly
E49 Radio Receiver Assembly
E50 4WD Control SW
E51 Auto LSD SW
E53 Blower Motor
E54 Blower Motor
E55 Blower Resistor
E56 Tire Pressure Warning ECU
E57 4WD Control ECU
E58 Option Connector (TVIP)
E59 Option Connector (Bus Buffer)
E60 A/T Shift Lever Illumination
E61 Damper Servo Motor (Air Inlet)
E62 Radio Receiver Assembly
E64 Radio Receiver Assembly
E65 Short Connector
E66 Short Connector
E67 Junction Connector
E68 Junction Connector
E69 Junction Connector
E70 Junction Connector
E71 Diode (Rear Wiper)
E72 Diode (Inverter)
E73 Junction Connector
E74 Junction Connector
E75 Diode (Heater)
E76 Radio Receiver Assembly

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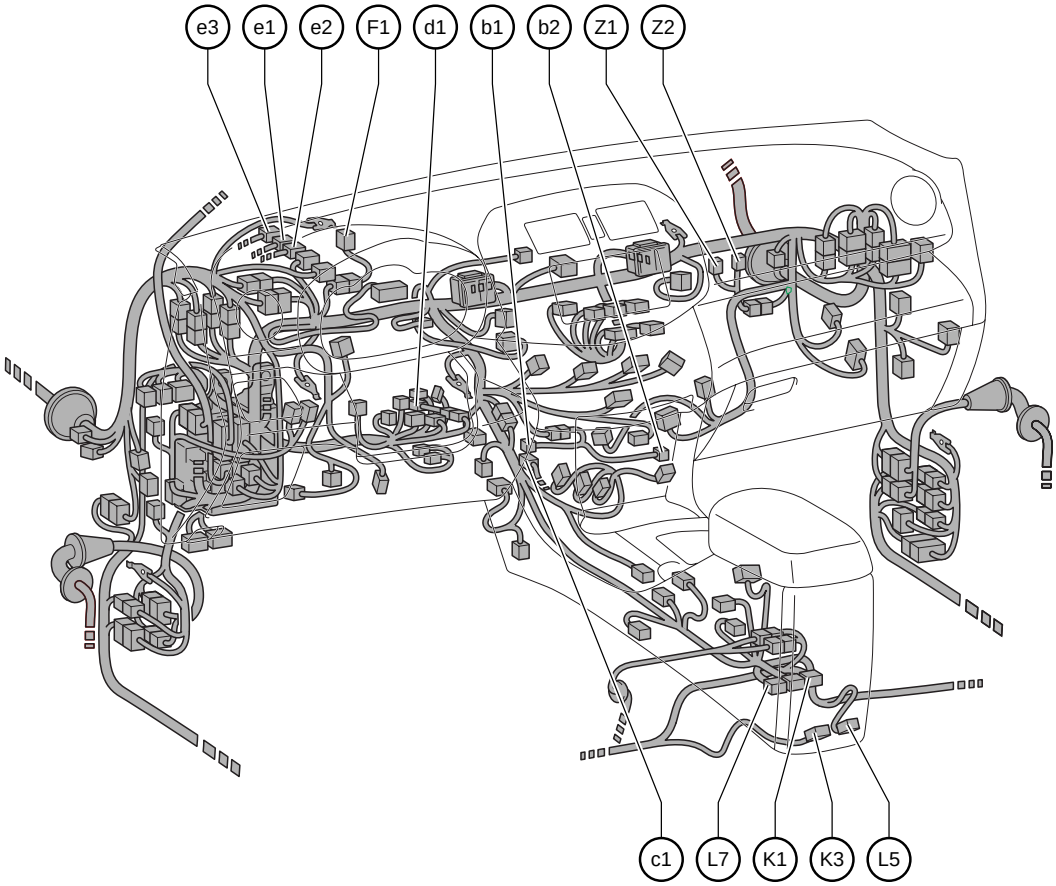
Position of Parts in Instrument Panel



A 1 Power Steering ECU
A 2 Brake Pedal Load Sensing SW
A 3 Stop Lamp SW
A 4 Accelerator Position Sensor
A 5 Trailer Socket
A35 Junction Connector
A36 Junction Connector
A37 Junction Connector
A38 Junction Connector

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Position of Parts in Instrument Panel



F 1 A/C Solar Sensor

K 1 Airbag Sensor Assembly Center
K 3 Power Outlet Socket (115V)

L 5 Video Terminal
L 7 Airbag Sensor Assembly Center

Z 1 Airbag Squib (Front Passenger's Airbag Assembly)
Z 2 Airbag Squib (Front Passenger's Airbag Assembly)

b 1 Foot Lamp (Front LH)
b 2 Foot Lamp (Front RH)

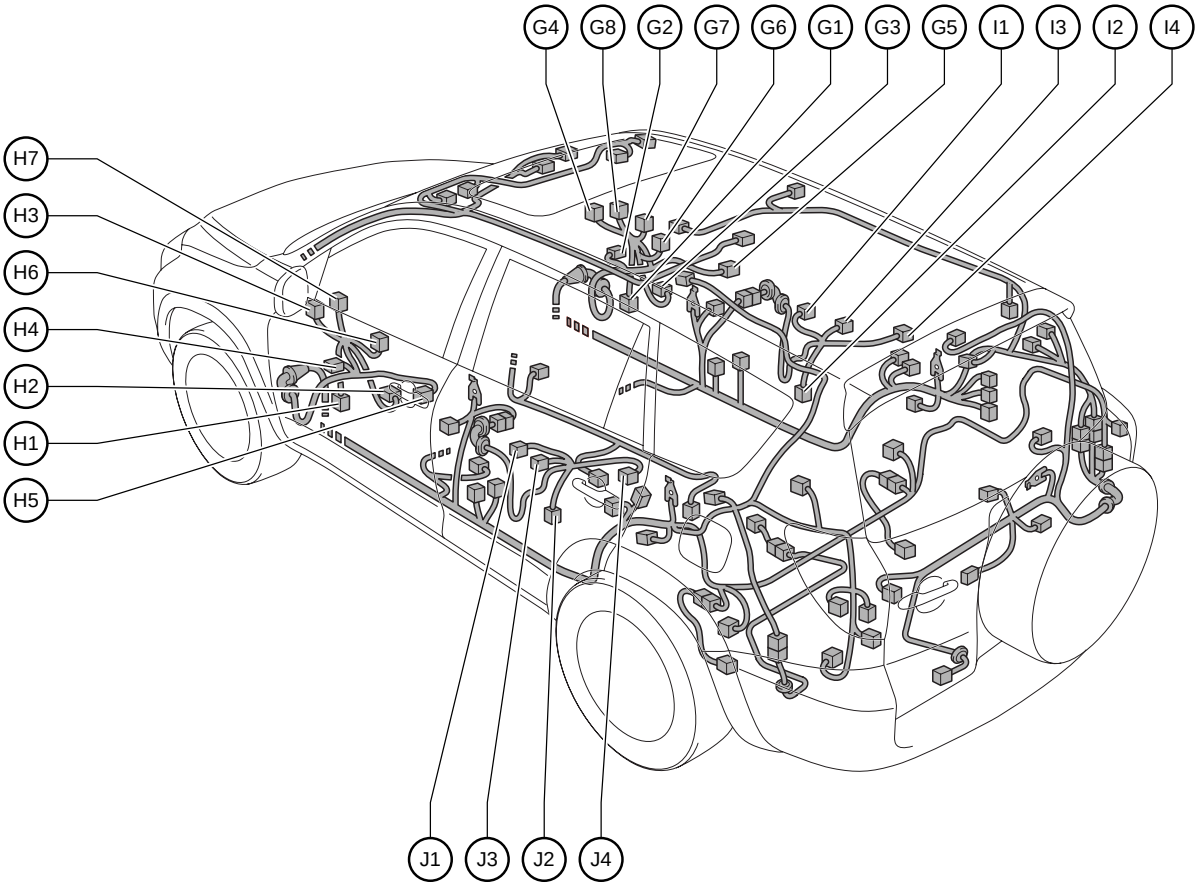
c 1 A/C Amplifier
A/C Blower Assembly

d 1 Key Interlock Solenoid

e 1 Power Steering ECU
Power Steering Torque Sensor
e 2 Power Steering ECU
Rotation Angle Sensor
e 3 Power Steering ECU
Power Steering Motor

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Position of Parts in Body



G 1 Speaker (Front Door RH)
G 2 Power Window Regulator Motor (Front RH)
G 3 Power Window SW (Front Passenger's Side)
G 4 Outer Rear View Mirror (RH)
G 5 Door Lock Assembly (Front Passenger's Side)
G 6 Door Lock Control SW (Front Passenger's Side)
G 7 Tweeter (Front RH)
G 8 Tweeter (Front RH)

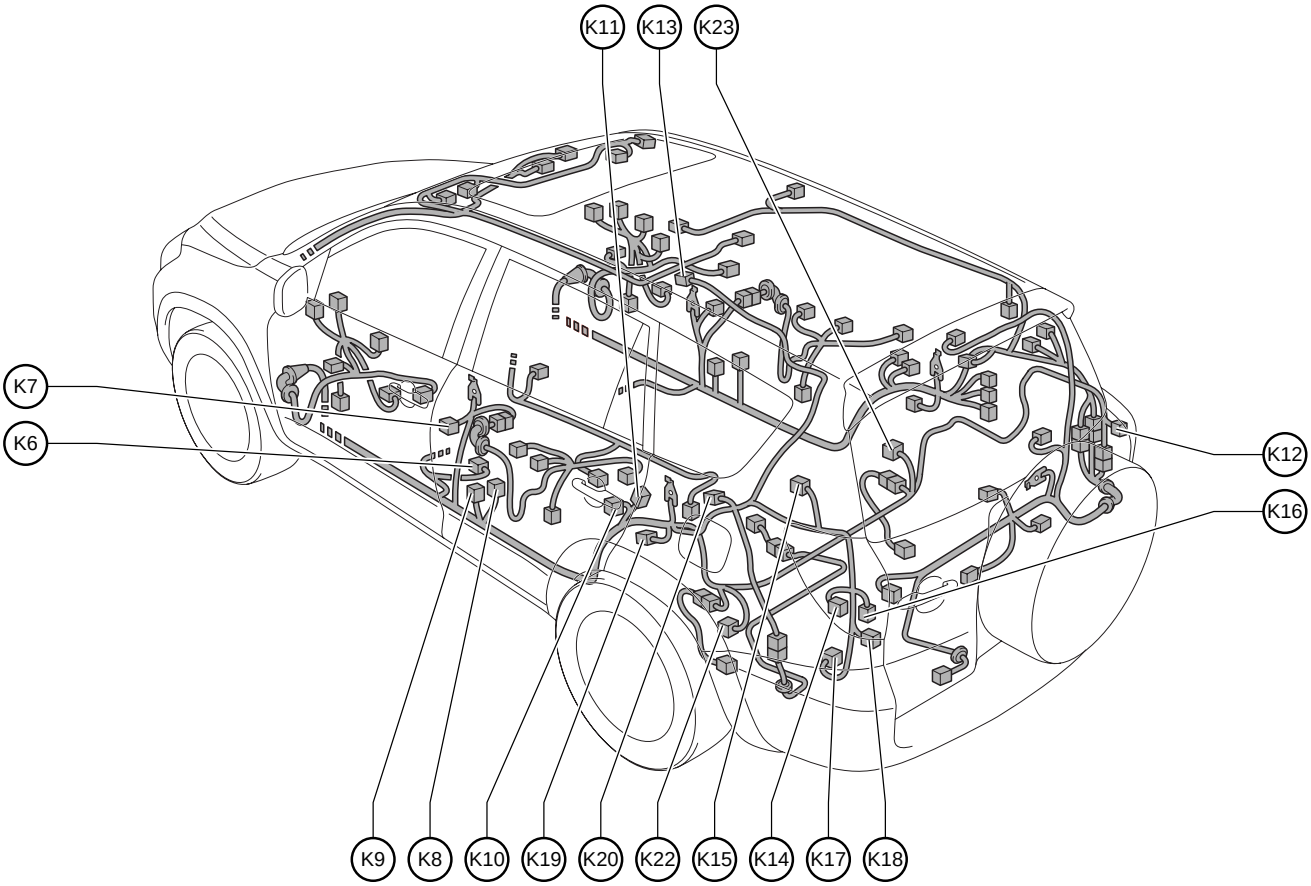
H 1 Speaker (Front Door LH)
H 2 Power Window SW (Driver's Side)
H 3 Outer Rear View Mirror (LH)
H 4 Power Window Regulator Motor (Front LH)
H 5 Door Lock Assembly (Driver's Side)
H 6 Tweeter (Front LH)
H 7 Tweeter (Front LH)

I 1 Power Window SW (Rear RH)
I 2 Speaker (Rear RH)
I 3 Power Window Regulator Motor (Rear RH)
I 4 Door Lock Assembly (Rear RH)

J 1 Power Window SW (Rear LH)
J 2 Speaker (Rear RH)
J 3 Power Window Regulator Motor (Rear LH)
J 4 Door Lock Assembly (Rear LH)

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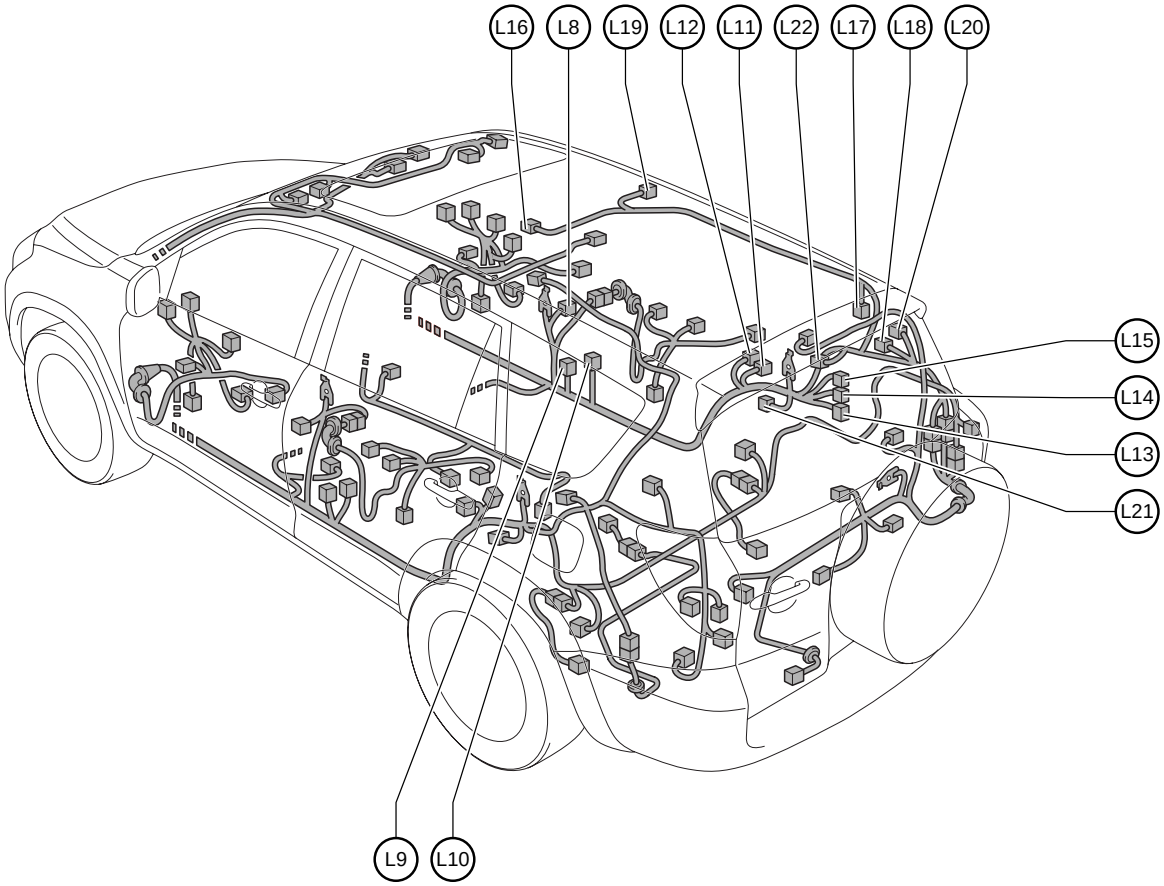
Position of Parts in Body



K 6 Yaw Rate Sensor
K 7 Door Courtesy SW (Front LH)
K 8 Pretensioner (LH)
K 9 Side Airbag Sensor (Front LH)
K 10 Door Courtesy SW (Rear LH)
K 11 Side Airbag Sensor (Rear LH)
K 12 Rear Combination Lamp (RH)
K 13 Curtain Shield Airbag Squib (LH)
K 14 Rear Combination Lamp (LH)
K 15 Voltage Inverter
K 16 Diode (Room Lamp)
K 17 Power Outlet Socket (Rear)
K 18 Door Courtesy SW (Back Door)
K 19 Junction Connector
K 20 Junction Connector
K 22 Speed Sensor (Rear LH)
K 23 Speed Sensor (Rear RH)

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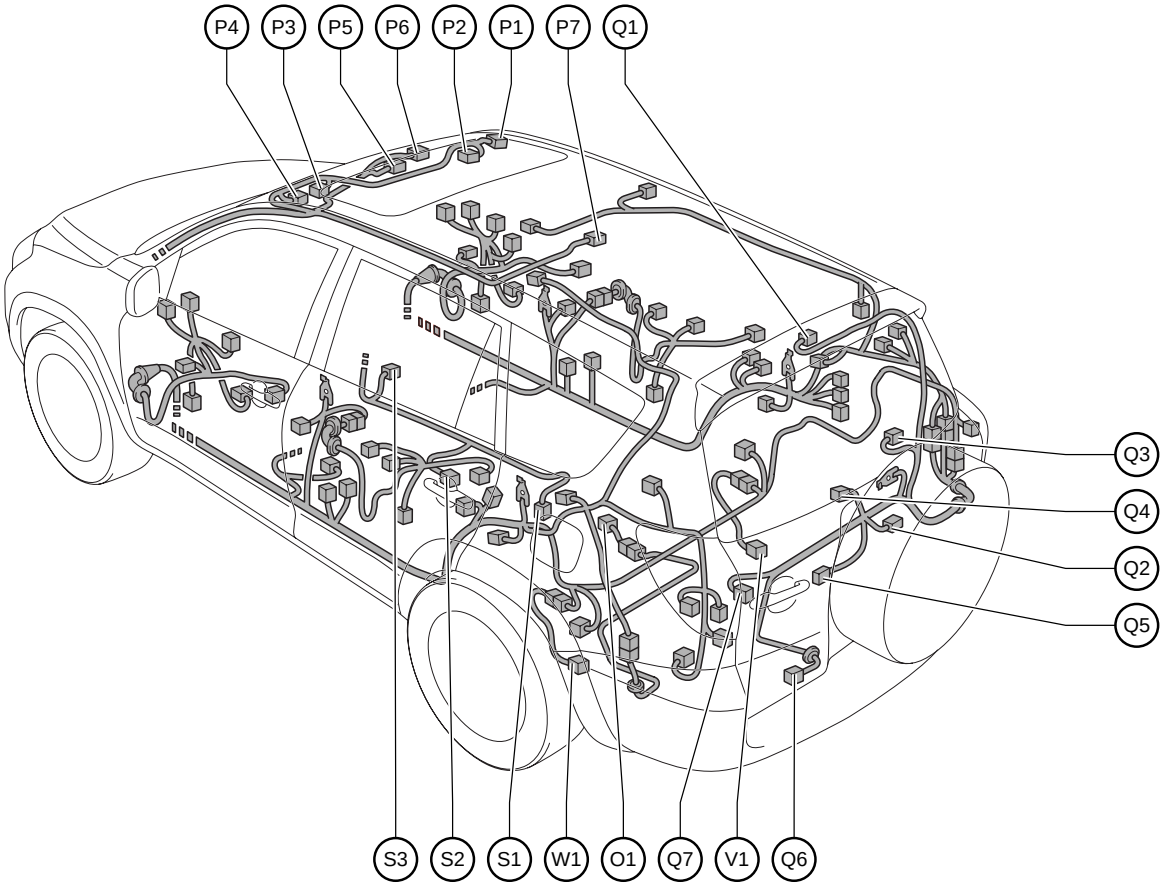
Position of Parts in Body



L 8 Door Courtesy SW (Front RH)
L 9 Pretensioner (RH)
L 10 Side Airbag Sensor (Front RH)
L 11 Door Courtesy SW (Rear RH)
L 12 Side Airbag Sensor (Rear RH)
L 13 Stereo Component Amplifier
L 14 Stereo Component Amplifier
L 15 Stereo Component Amplifier
L 16 Rear Seat Entertainment Display
L 17 Curtain Shield Airbag Squib (RH)
L 18 Door Control Receiver
L 19 Curtain Shield Airbag Squib (RH)
L 20 Tire Pressure Waning Antenna and Receiver
L 21 Junction Connector
L 22 Junction Connector

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Position of Parts in Body



O 1 4WD Linear Solenoid

P 1 Vanity Lamp SW (RH)
P 2 Vanity Lamp (RH)
P 3 Vanity Lamp (LH)
P 4 Vanity Lamp SW (LH)
P 5 Overhead J/B
P 6 Sliding Roof Control ECU
P 7 Room Lamp (Front)

Q 1 Center Stop Lamp
Q 2 Rear Window Defogger
Q 3 Room Lamp Rear (Rear)
Q 4 Rear Wiper Motor
Q 5 Speaker (Woofer)
Q 6 License Plate Lamp
Q 7 Back Door Lock Assmbly

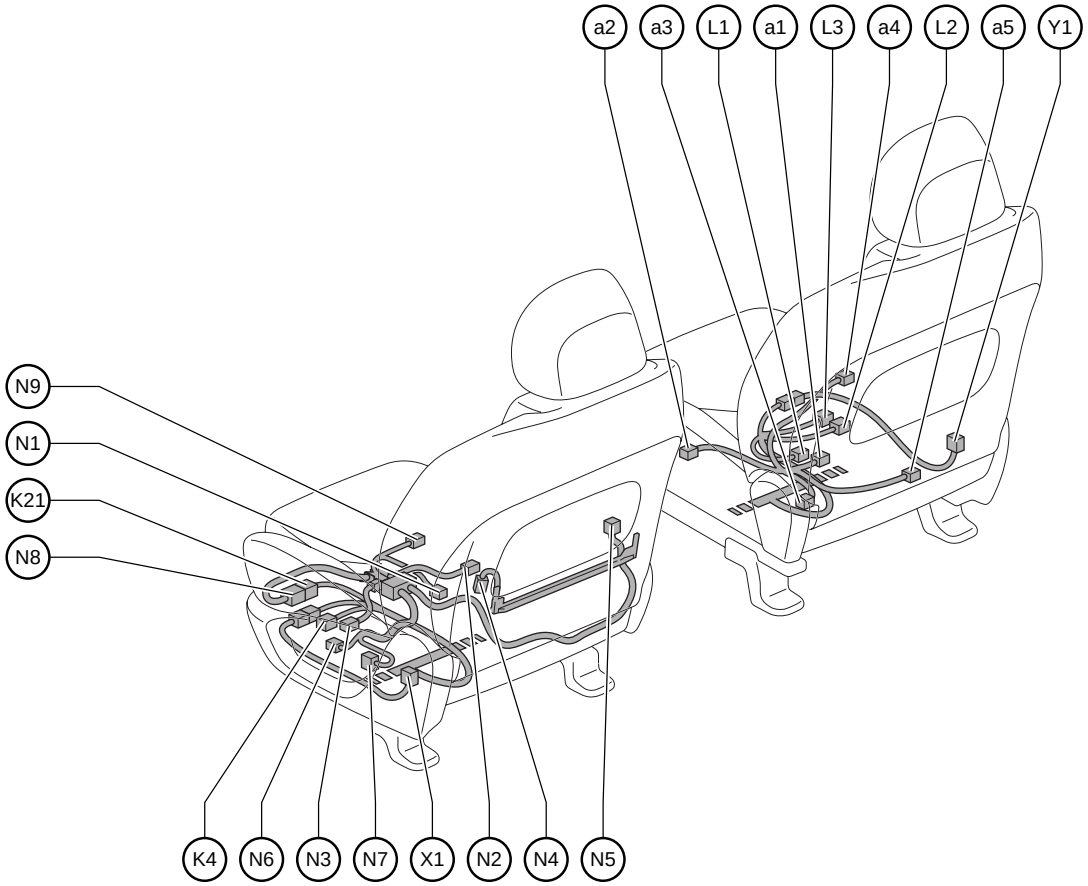
S 1 Fuel Suction Pump
S 2 Fuel Sender Gage
S 3 Canister Pump Module

V 1 Speed Sensor (Rear RH)

W 1 Speed Sensor (Rear LH)

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Position of Parts in Seat



K 4 Front Seat Inner Belt (Driver's Side)
K 21 Junction Connector

L 1 Occupant Classification ECU
L 2 Front Seat Inner Belt (Front Passenger's Side)
L 3 Seat Heater (RH)

N 1 Power Seat Motor (Driver's Seat Slide Control)
N 2 Power Seat Motor (Driver's Seat Lifter Control)
N 3 Power Seat Motor (Driver's Seat Front Vertical Control)
N 4 Power Seat Motor (Driver's Seat Reclining Control)
N 5 Power Seat Motor
(Driver's Seat Lumbar Support Control)
N 6 Power Seat SW (Driver's Seat)
N 7 Power Seat SW (Lumbar Support)
N 8 Junction Connector
N 9 Seat Heater (LH)

X 1 Side Airbag Squib (LH)

Y 1 Side Airbag Squib (RH)

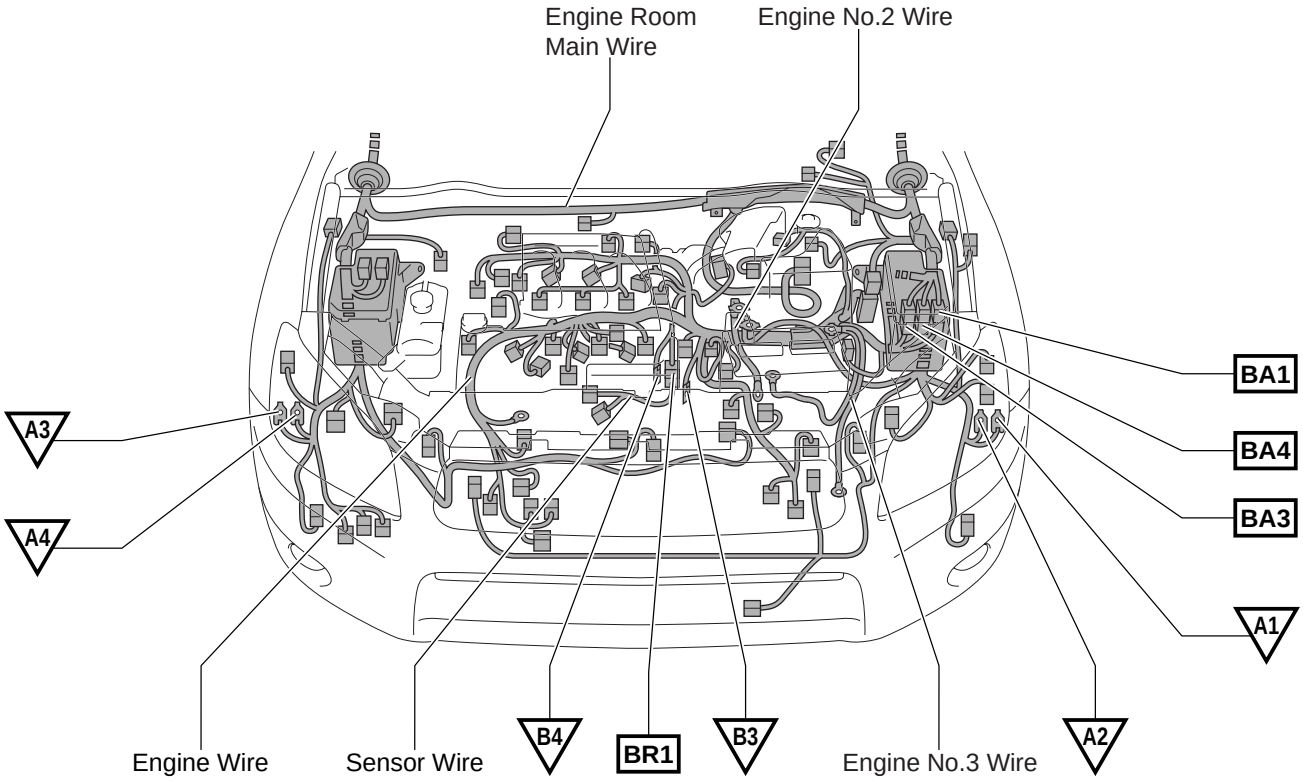
a 1 Occupant Classification ECU
a 2 Occupant Classification Sensor (Front LH)
a 3 Occupant Classification Sensor (Rear LH)
a 4 Occupant Classification Sensor (Front RH)
a 5 Occupant Classification Sensor (Rear RH)

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▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[2GR–FE]

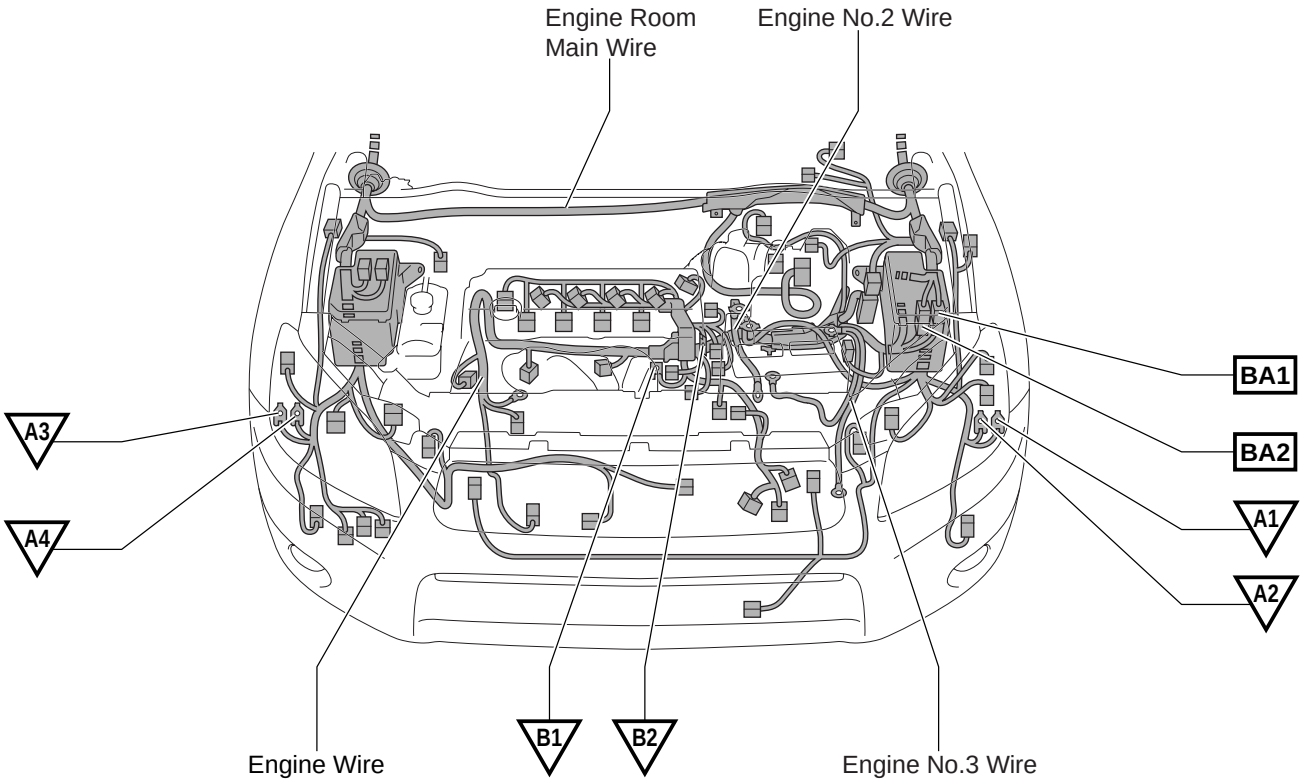


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▭ : Location of Connector Joining Wire Harness and Wire Harness

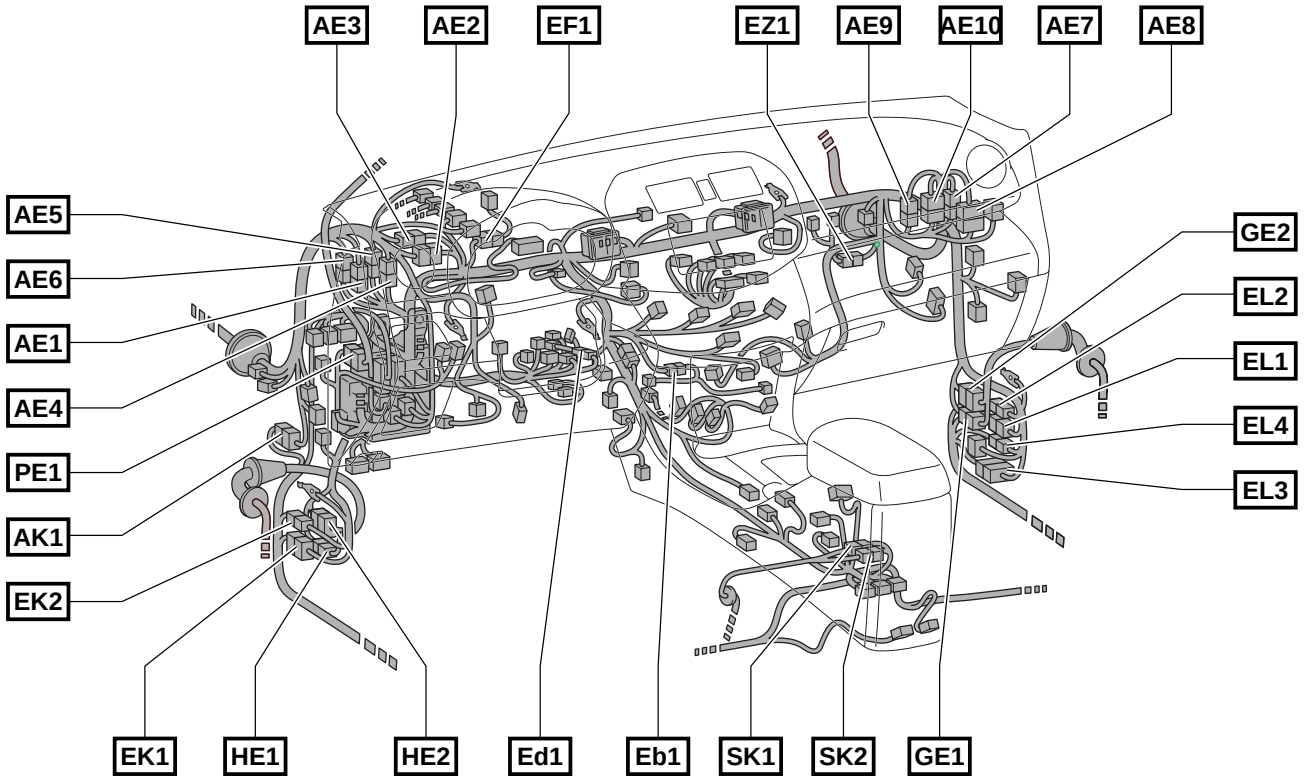
▽ : Location of Ground Points

[2AZ–FE]

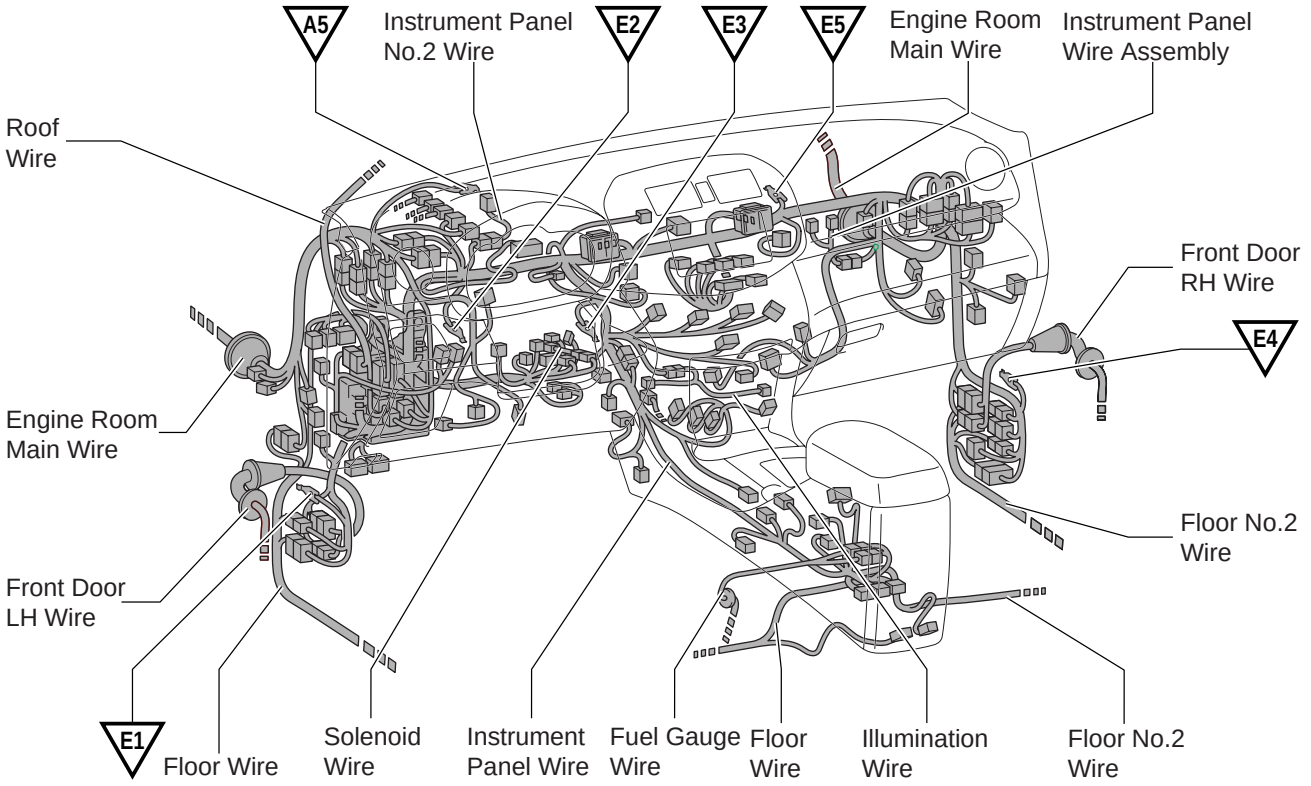


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▭ : Location of Connector Joining Wire Harness and Wire Harness

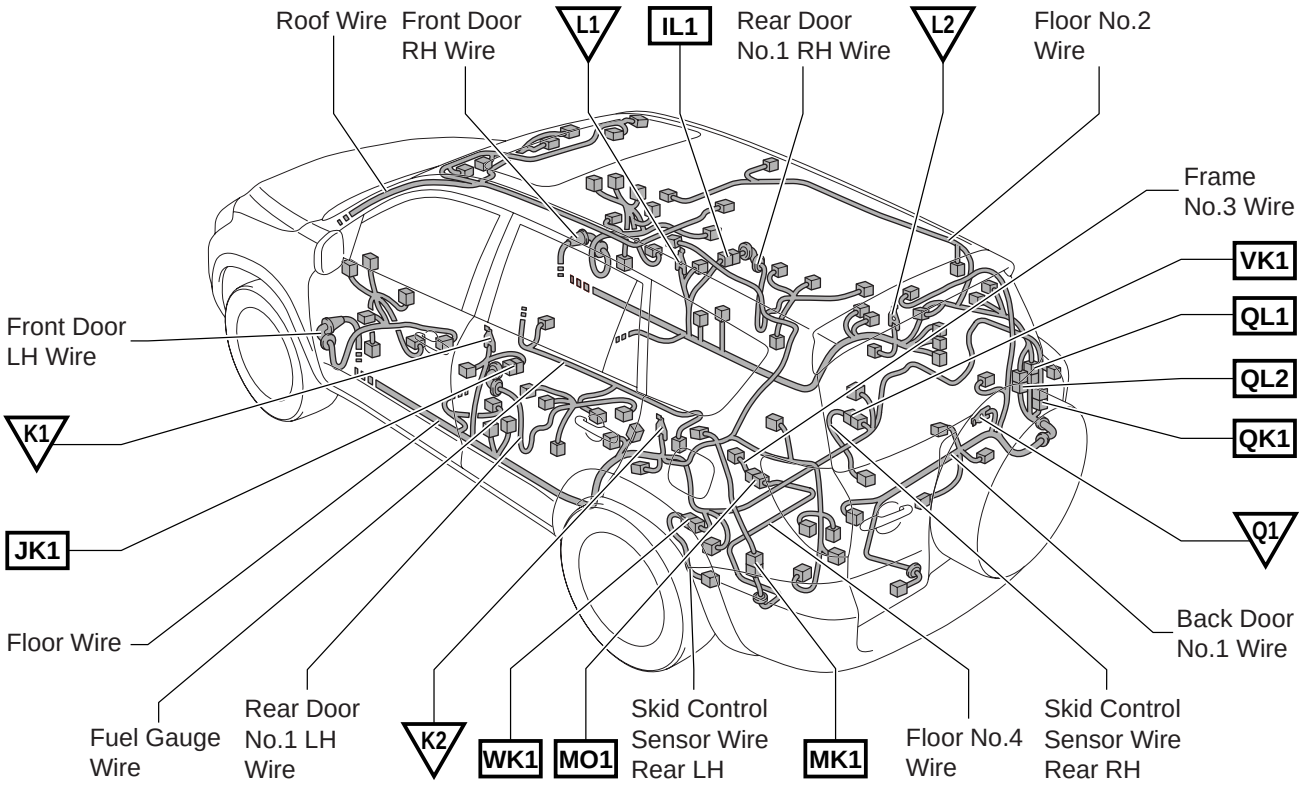


▽ : Location of Ground Points



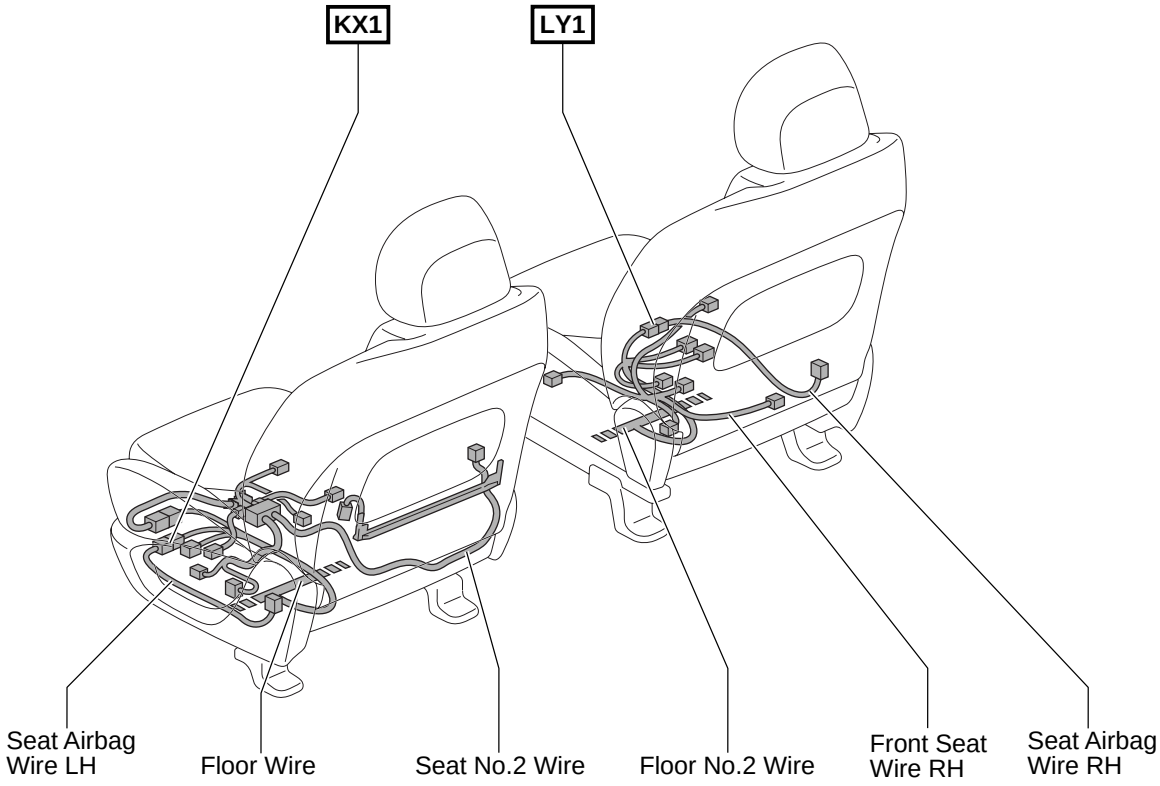
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▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points



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▭ : Location of Connector Joining Wire Harness and Wire Harness



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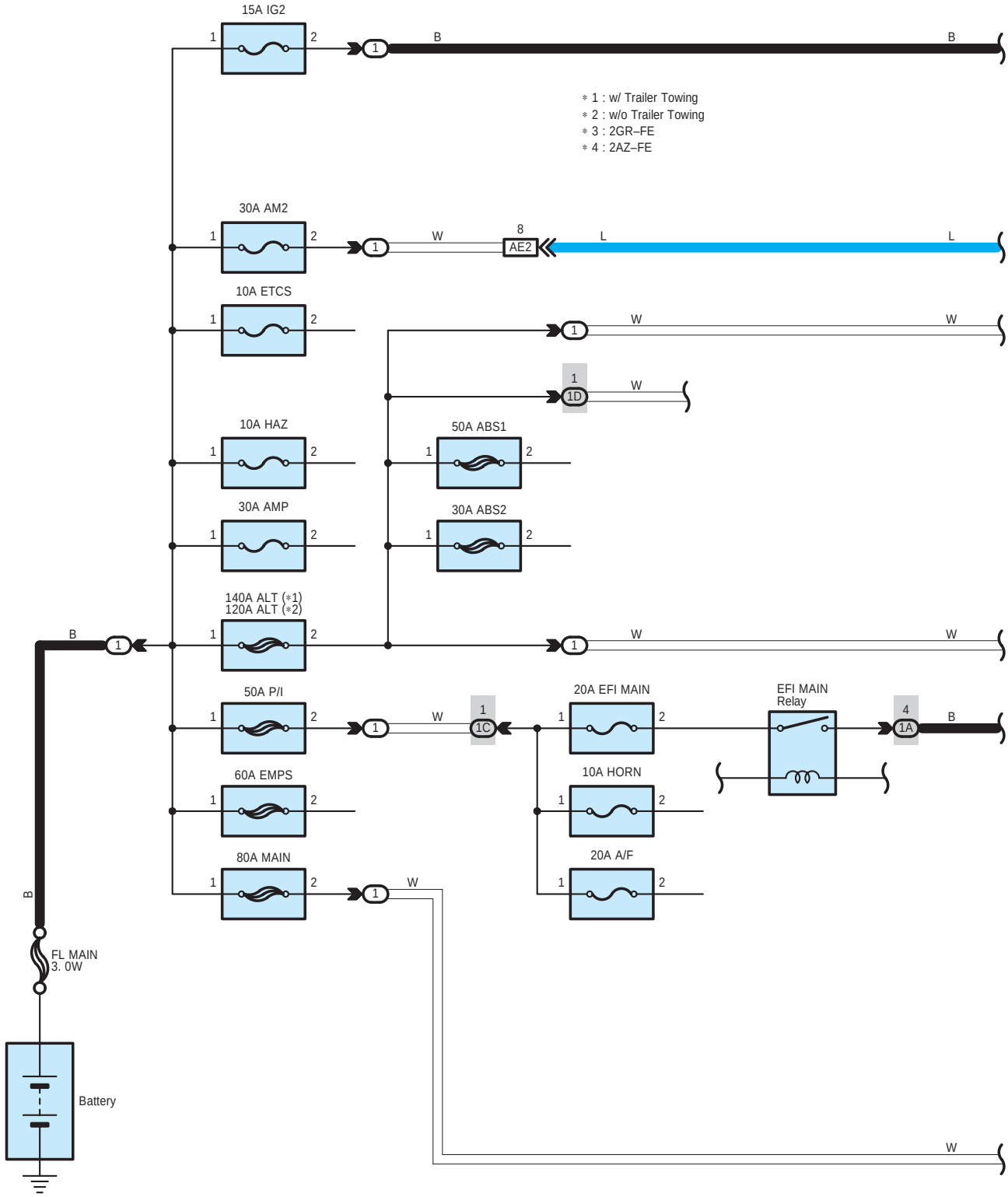
2007 RAV4
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

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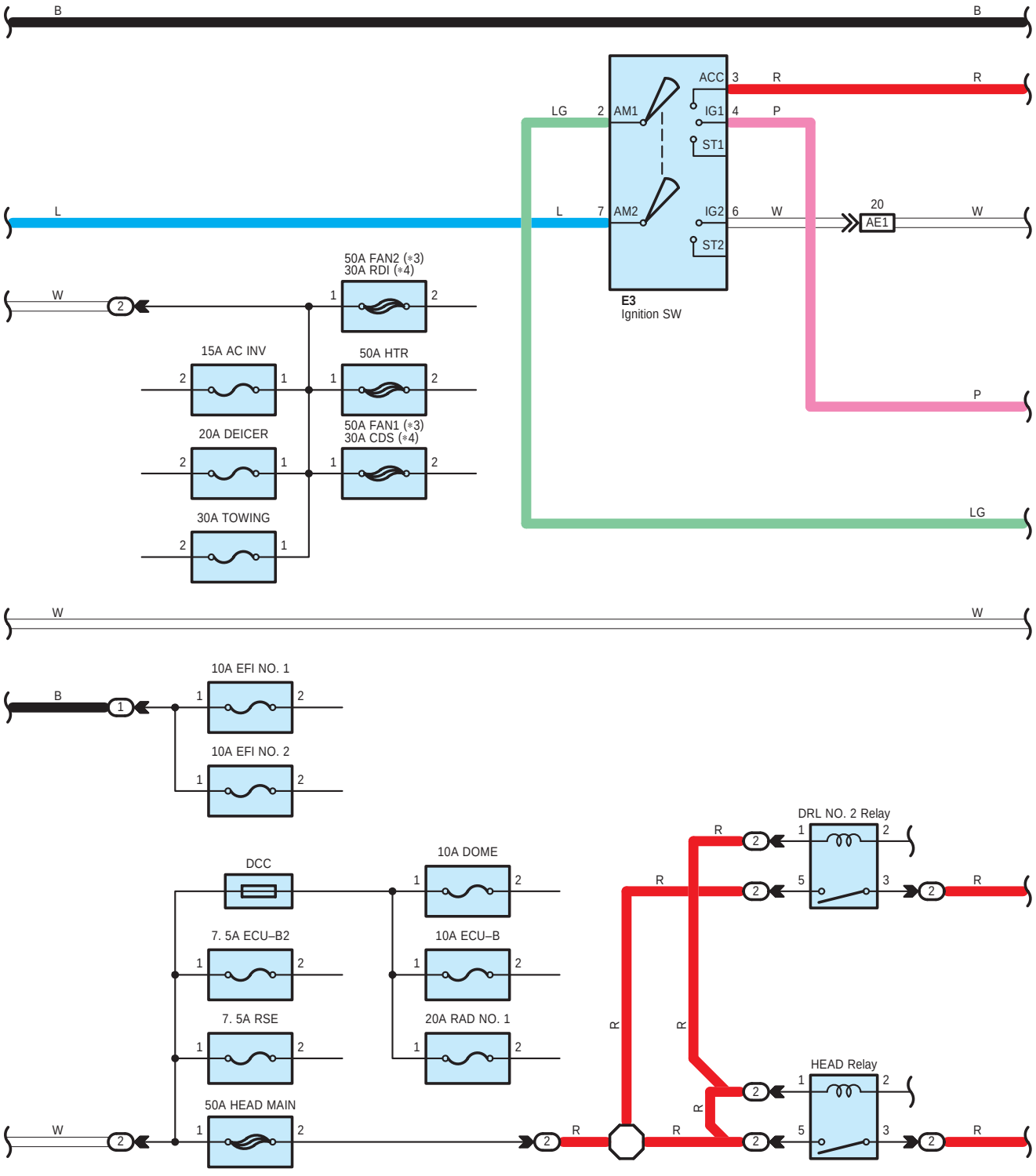
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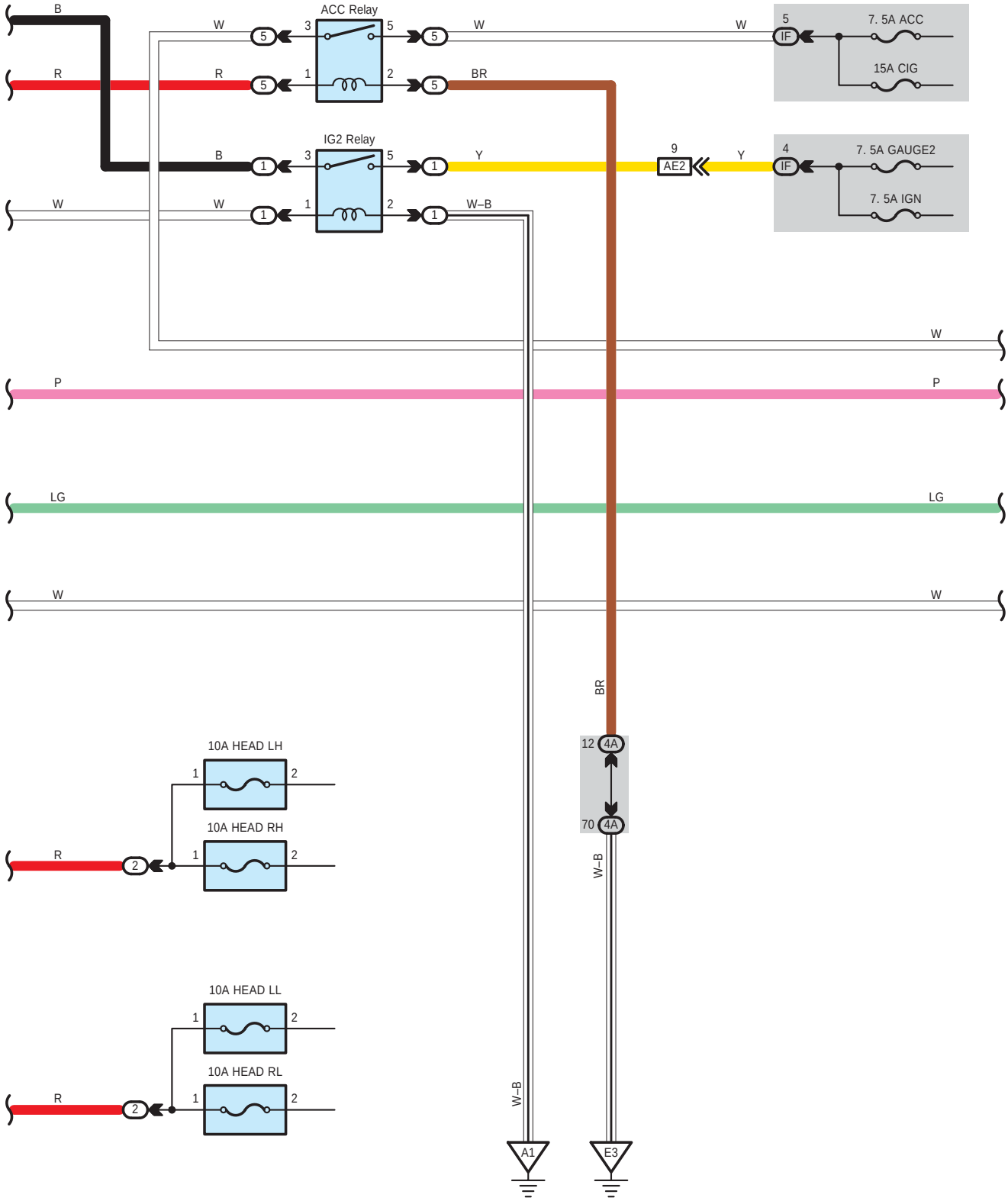
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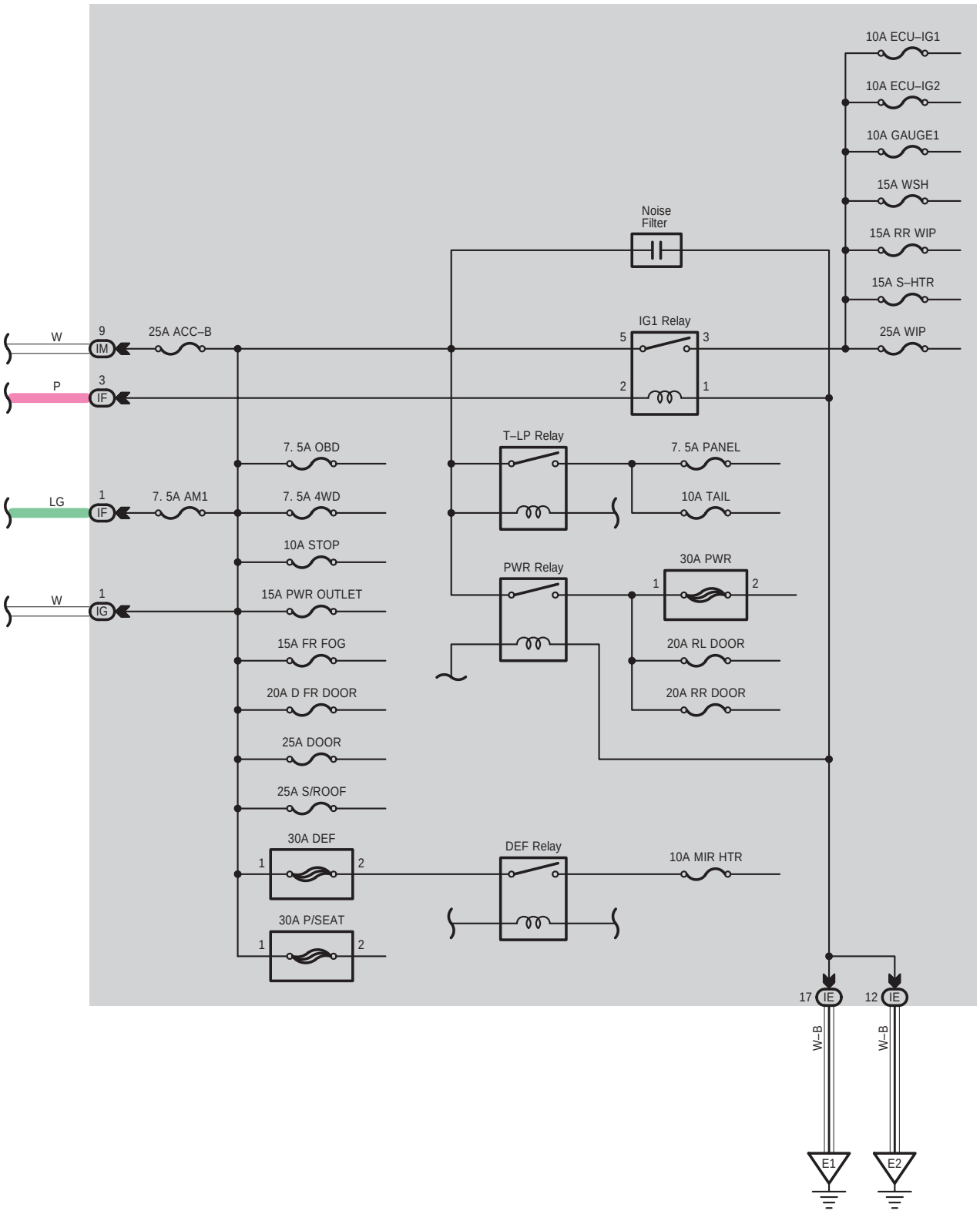
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E3	54				

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	
5	28	R/B No.5 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1D	22 (2GR–FE)	Engine Wire and Engine Room J/B (Engine Compartment Left)
	23 (2AZ–FE)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

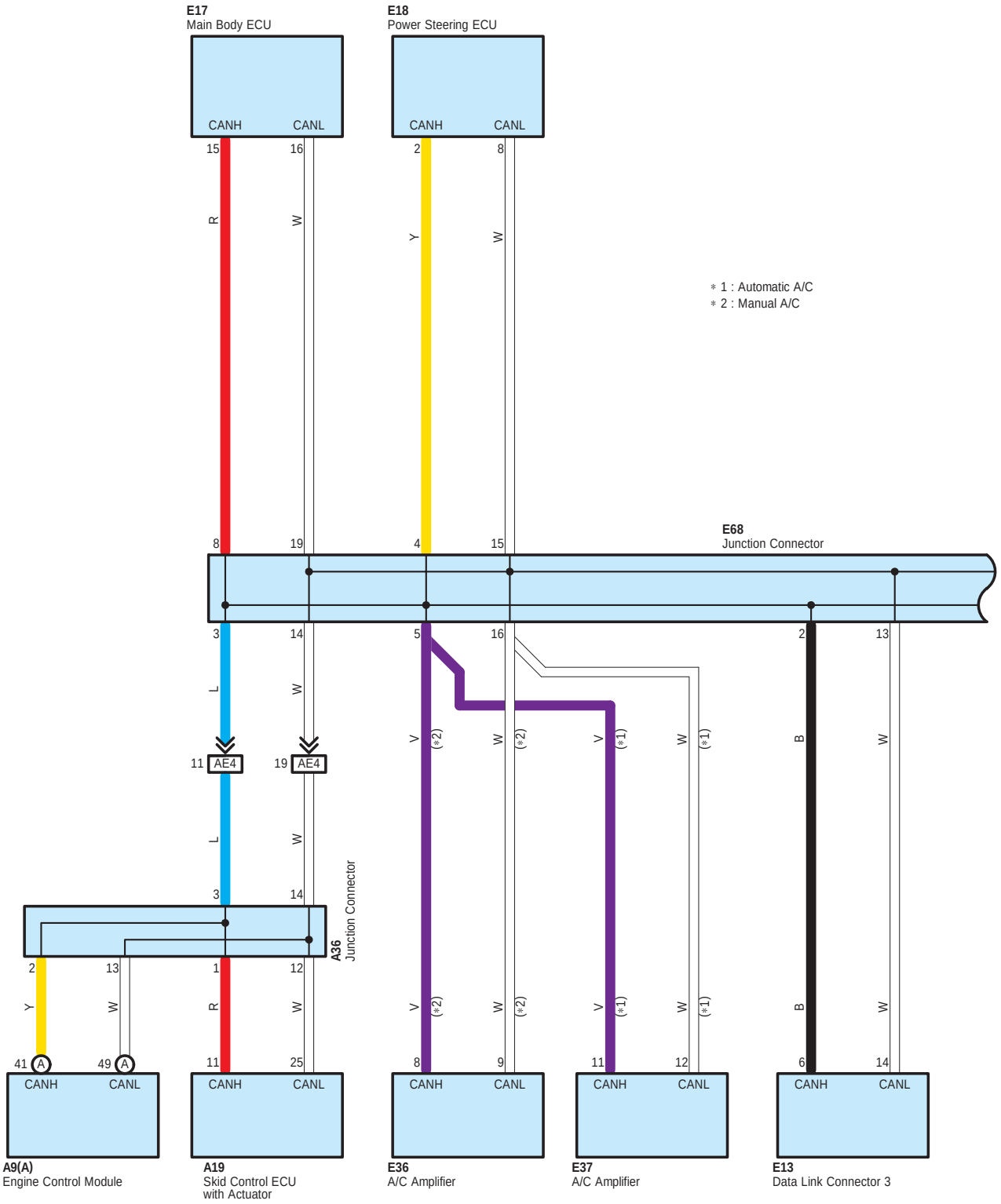
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		

: Ground Points

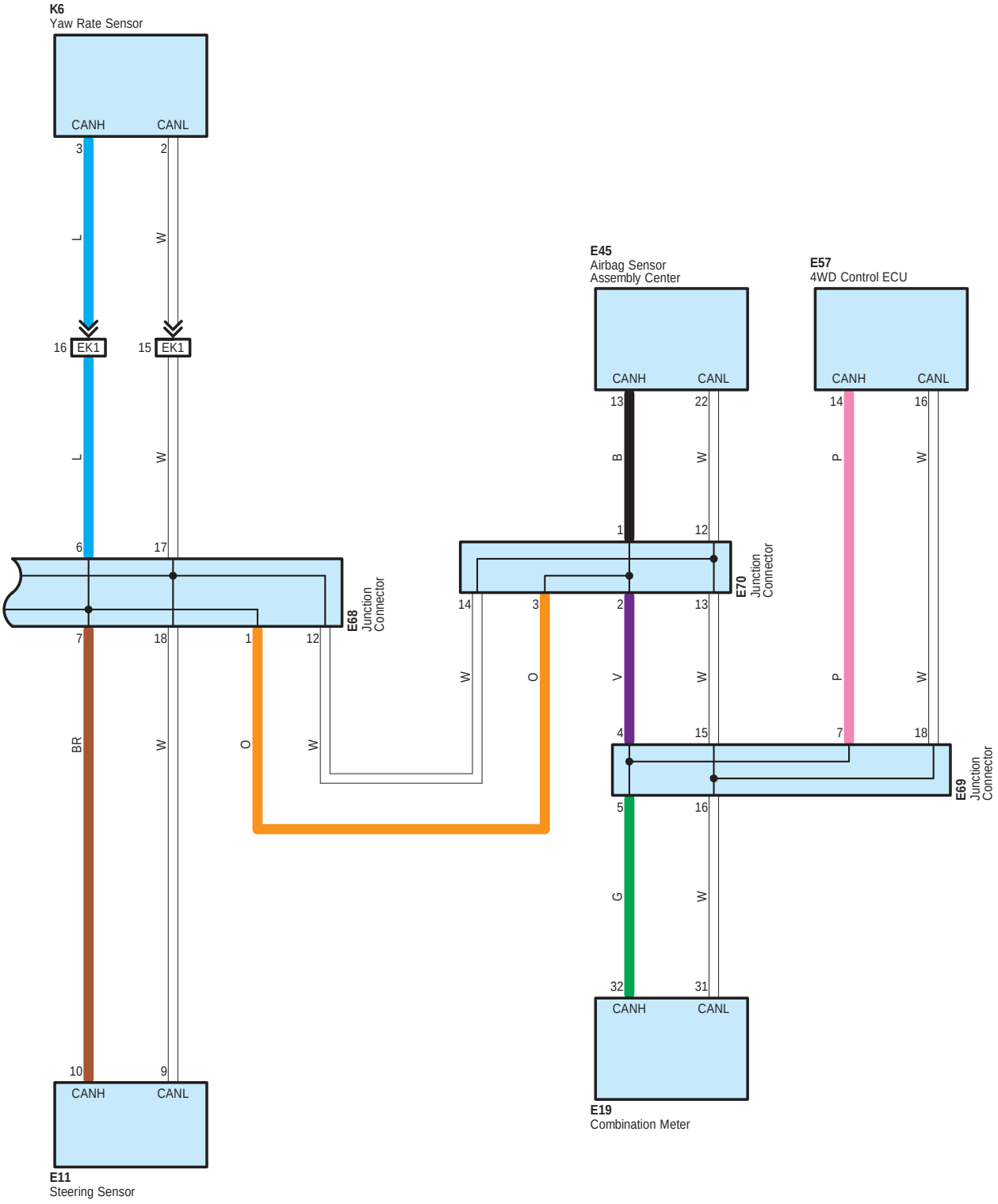
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left
E3	66	Instrument Panel Reinforcement Center

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Multiplex Communication System – CAN

System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as 4WD control ECU, A/C amplifier, airbag sensor assembly center, combination meter, data link connector 3, engine control module, main body ECU, power steering ECU, skid control ECU with actuator, steering sensor and yaw rate sensor.

○ : Parts Location

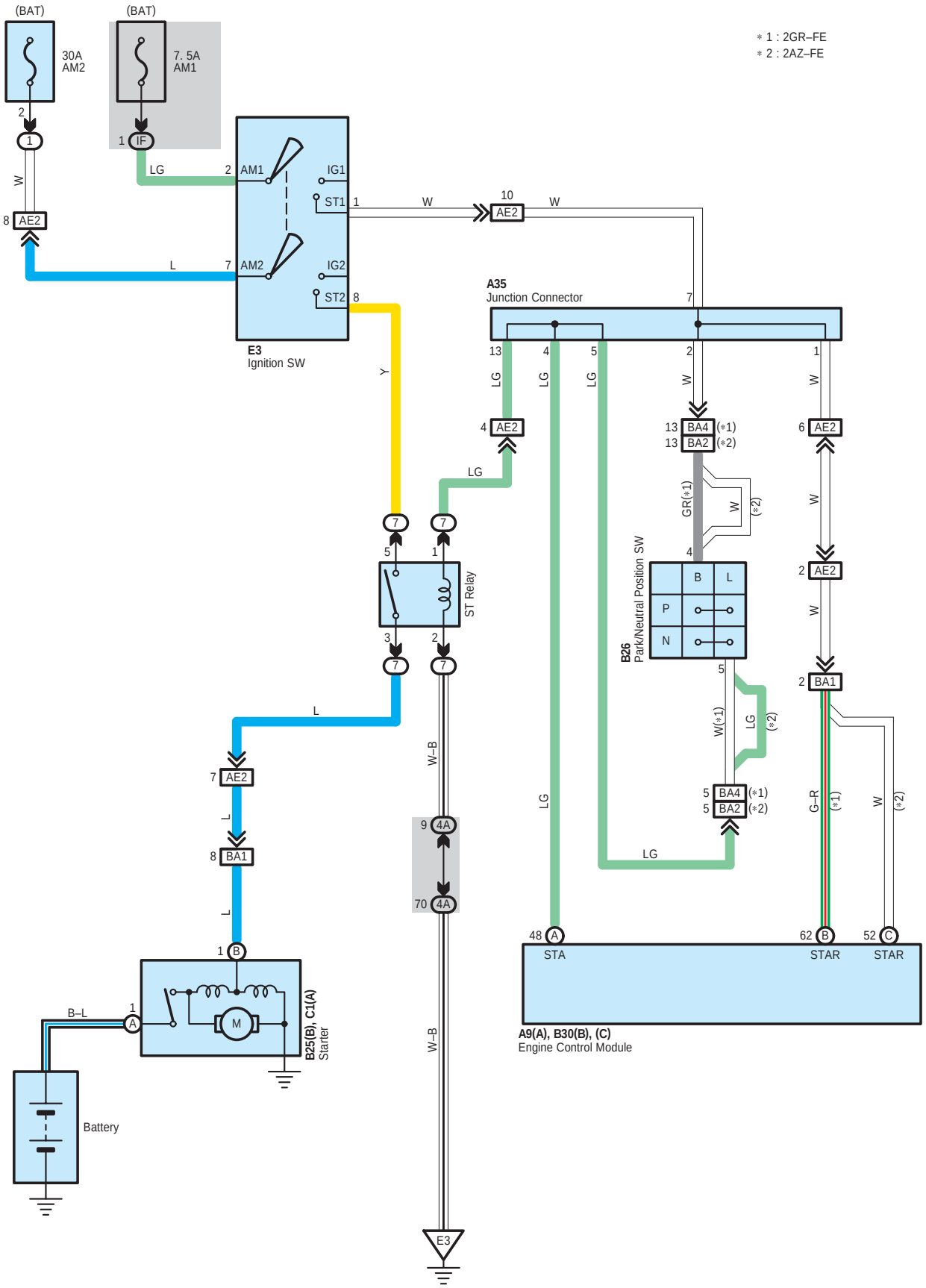
Code		See Page	Code	See Page	Code	See Page
A9	A	50 (2GR–FE)	E13	54	E45	55
		52 (2AZ–FE)	E17	54	E57	55
A19		50 (2GR–FE)	E18	54	E68	55
		52 (2AZ–FE)	E19	54	E69	55
A36		56	E36	55	E70	55
E11		54	E37	55	K6	59

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

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: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	50 (2GR–FE)	B25	B	53 (2AZ–FE)	B30	C	53 (2AZ–FE)
		52 (2AZ–FE)	B26		51 (2GR–FE)	C1	A	51 (2GR–FE)
A35		56			53 (2AZ–FE)			53 (2AZ–FE)
B25	B	51 (2GR–FE)	B30	B	51 (2GR–FE)	E3		54

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
7	29	R/B No.7 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

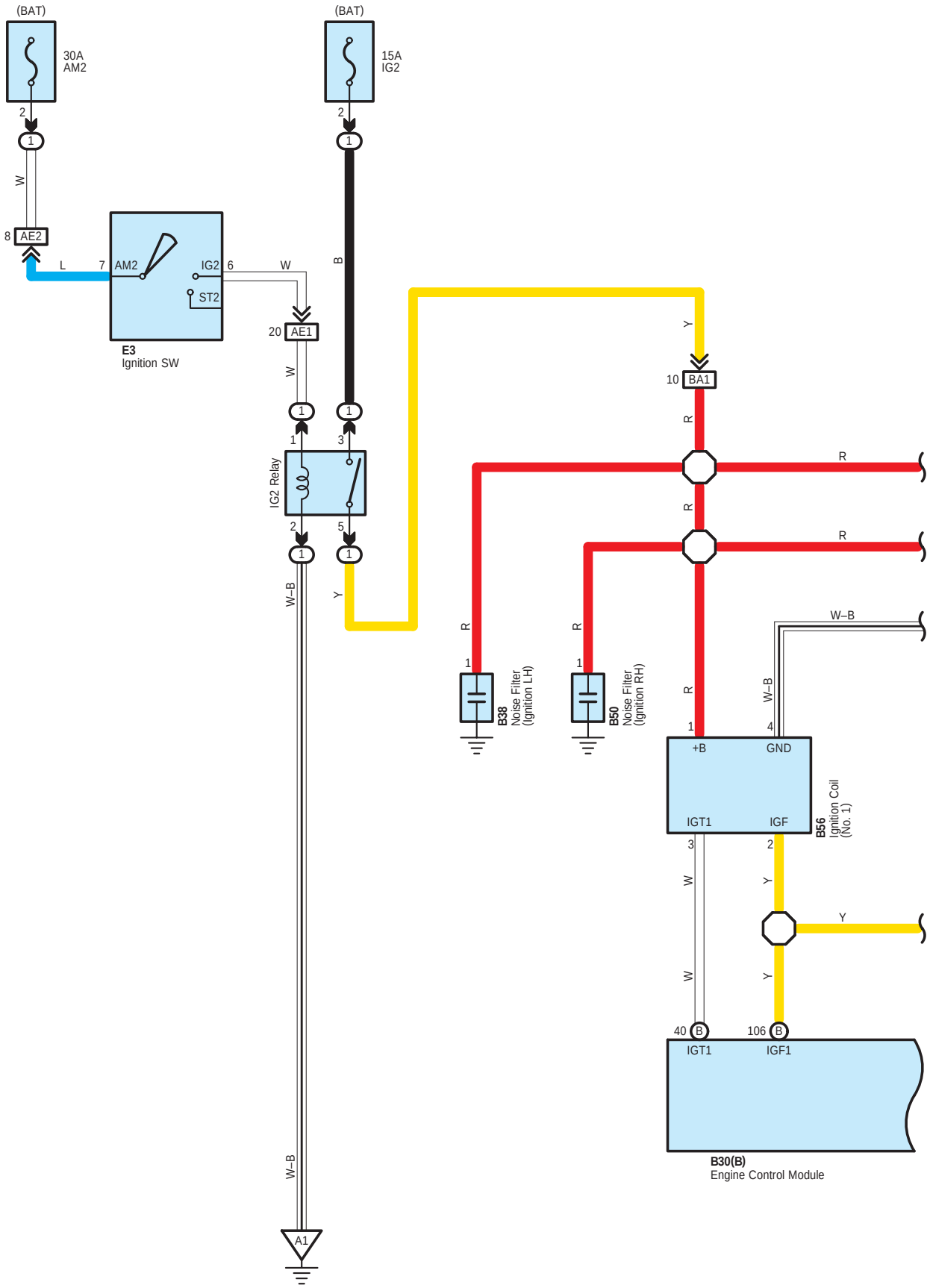
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
BA2	65 (2AZ–FE)	
BA4	64 (2GR–FE)	

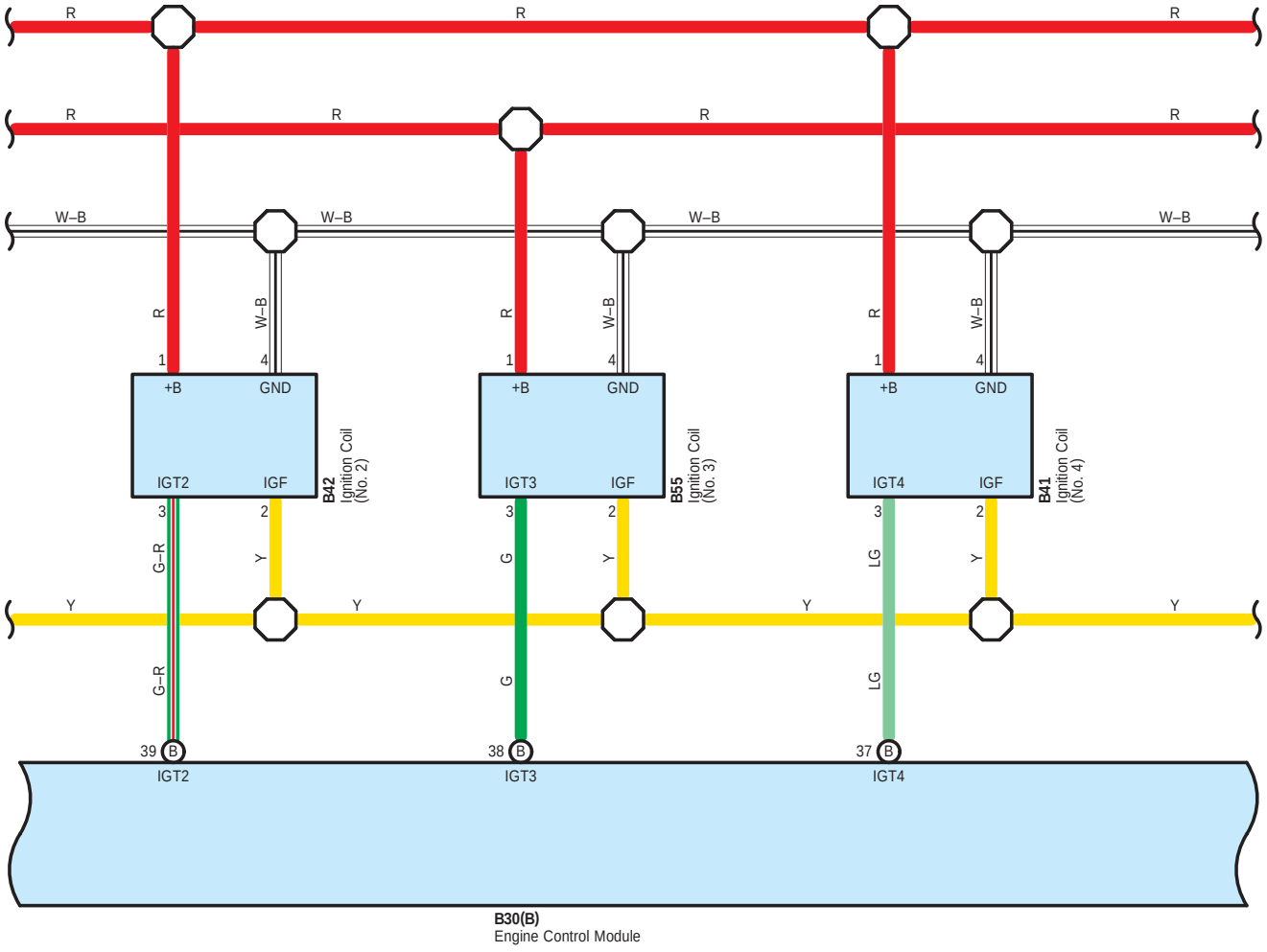
: Ground Points

Code	See Page	Ground Points Location
E3	66	Instrument Panel Reinforcement Center

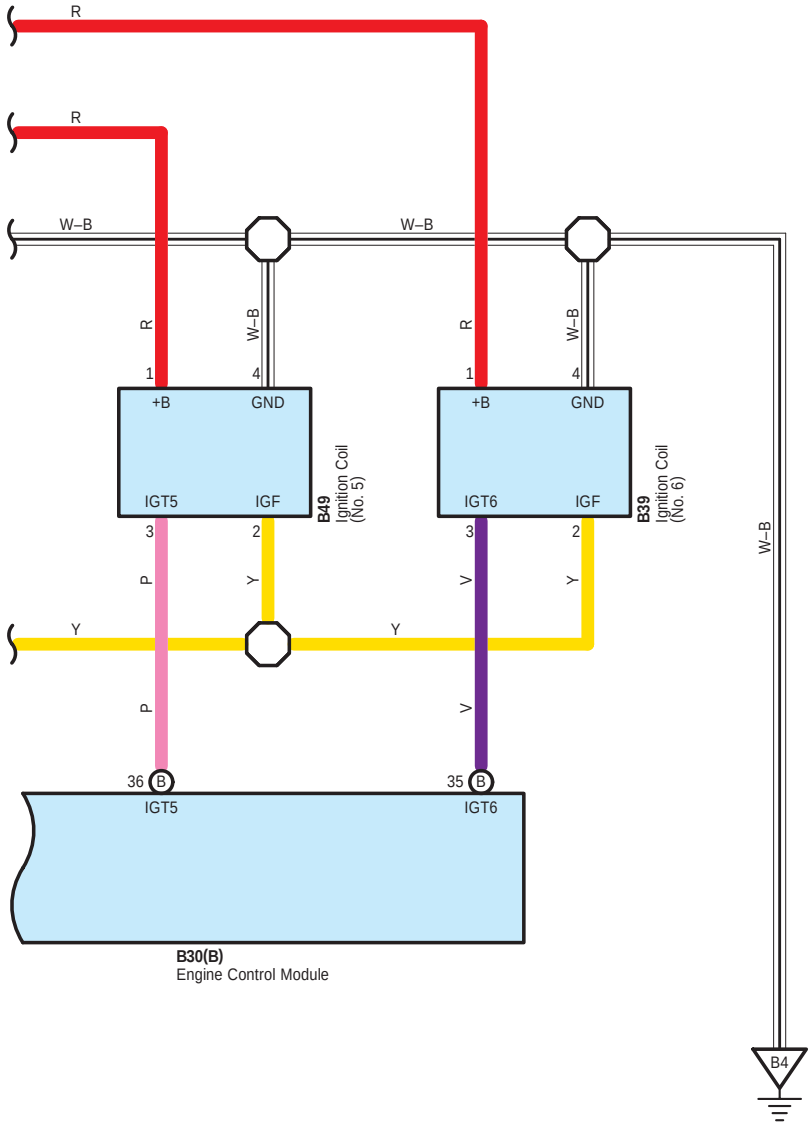
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
B30 B	51 (2GR–FE)	B42	51 (2GR–FE)	B56	51 (2GR–FE)
B38	51 (2GR–FE)	B49	51 (2GR–FE)	E3	54
B39	51 (2GR–FE)	B50	51 (2GR–FE)		
B41	51 (2GR–FE)	B55	51 (2GR–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)

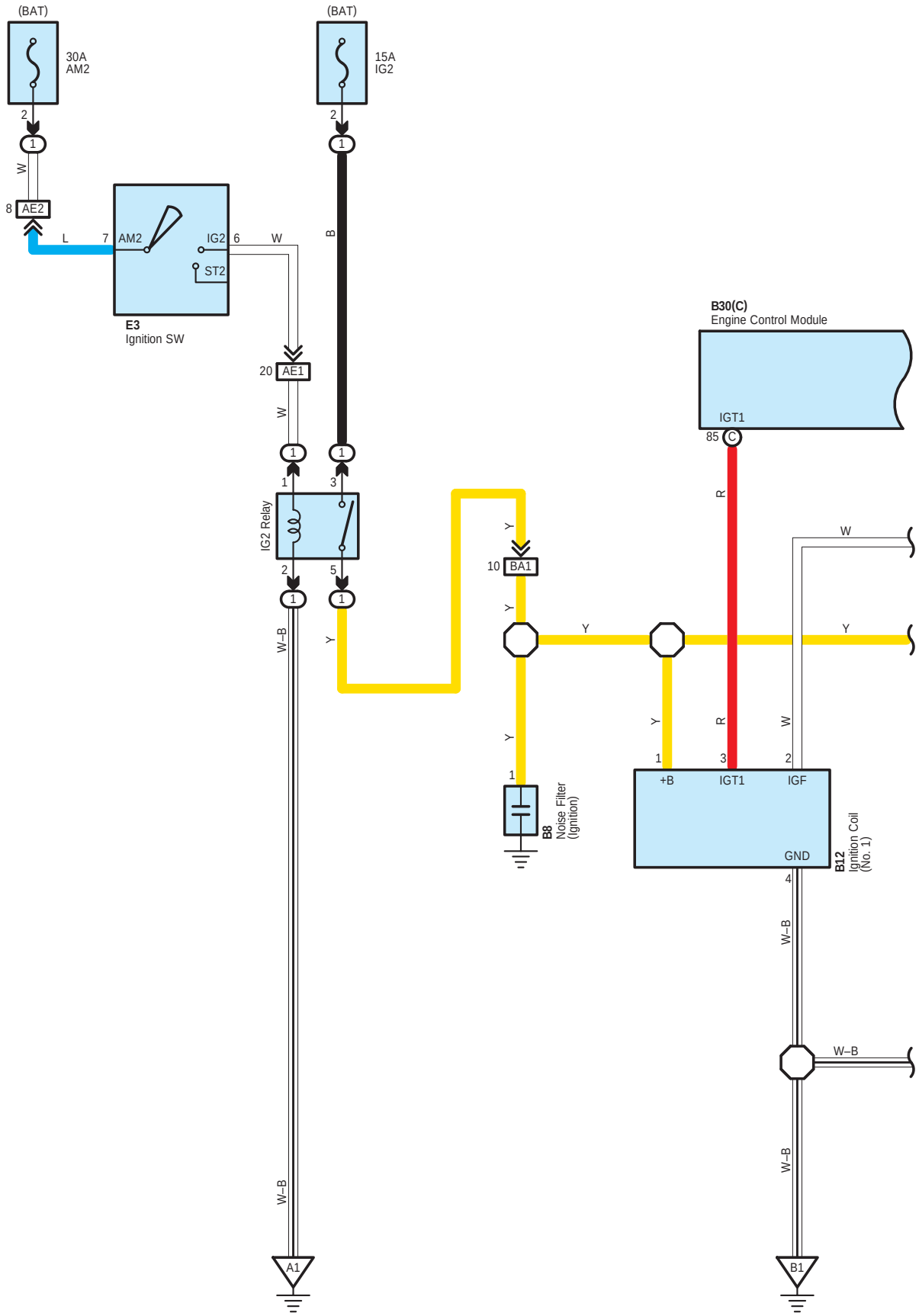
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)

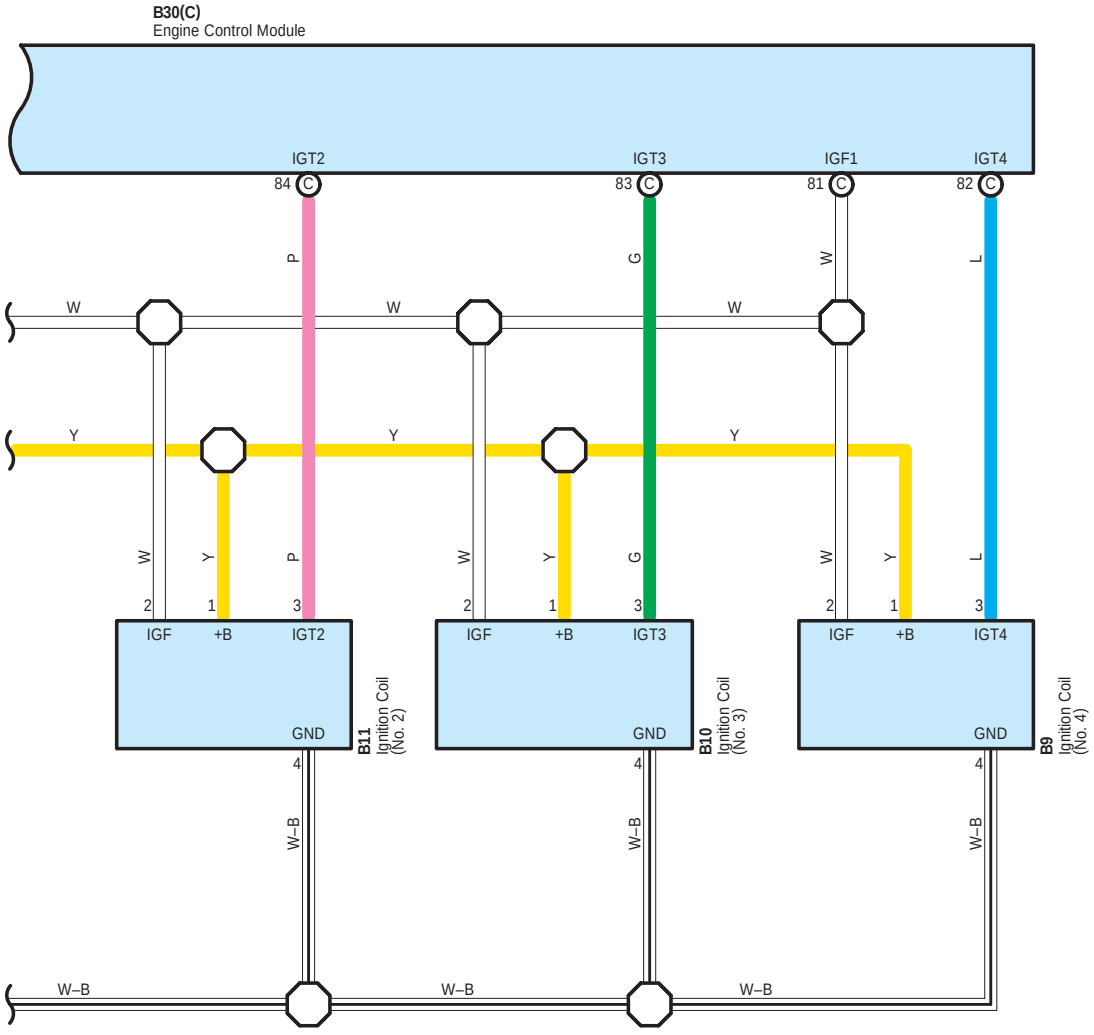
: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
B4	64 (2GR–FE)	Left Side of the Cylinder Head

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
B8	53 (2AZ–FE)	B11	53 (2AZ–FE)	E3	54
B9	53 (2AZ–FE)	B12	53 (2AZ–FE)		
B10	53 (2AZ–FE)	B30 C	53 (2AZ–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	23 (2AZ–FE)	Engine Room R/B No.1 (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

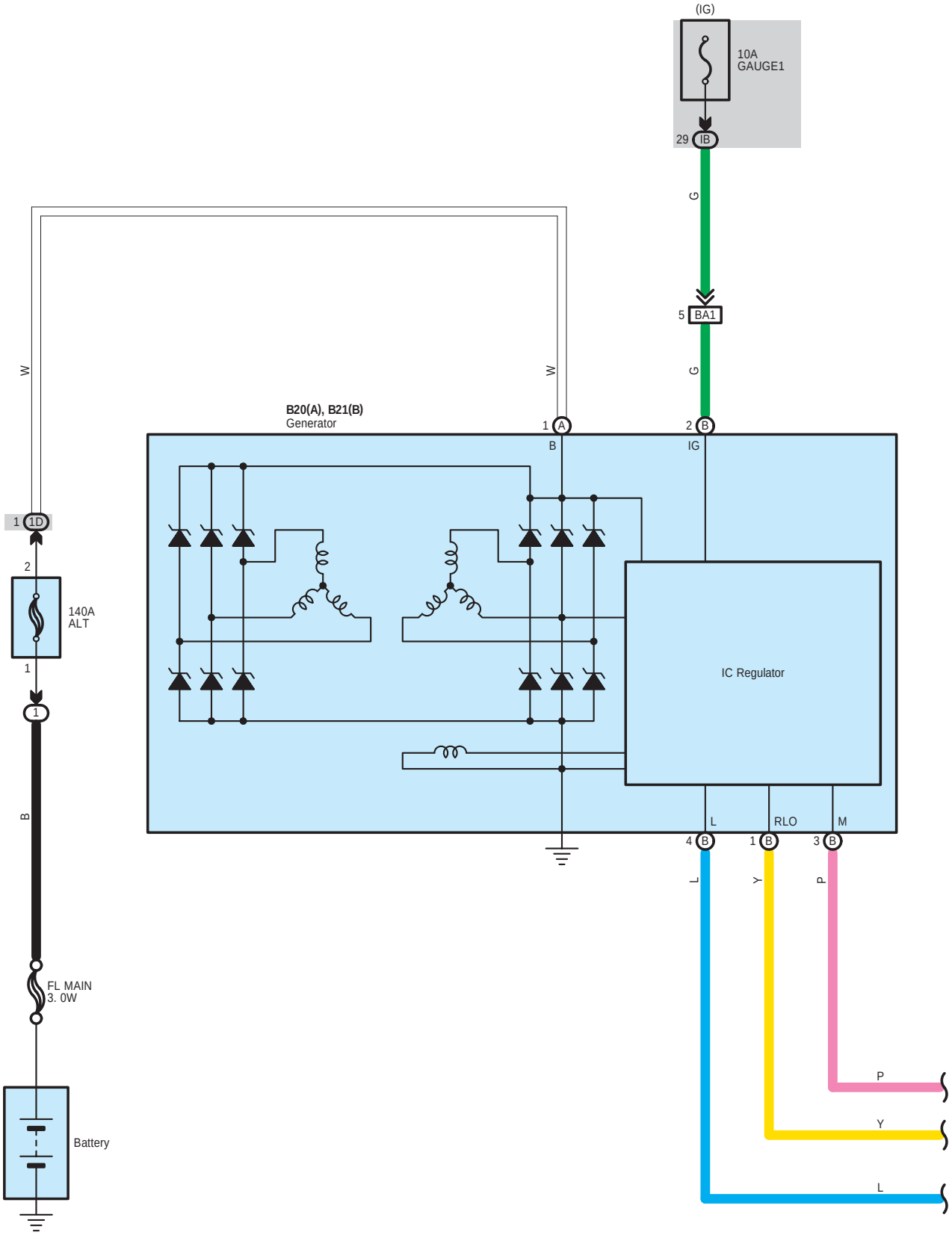
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		
BA1	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)

: Ground Points

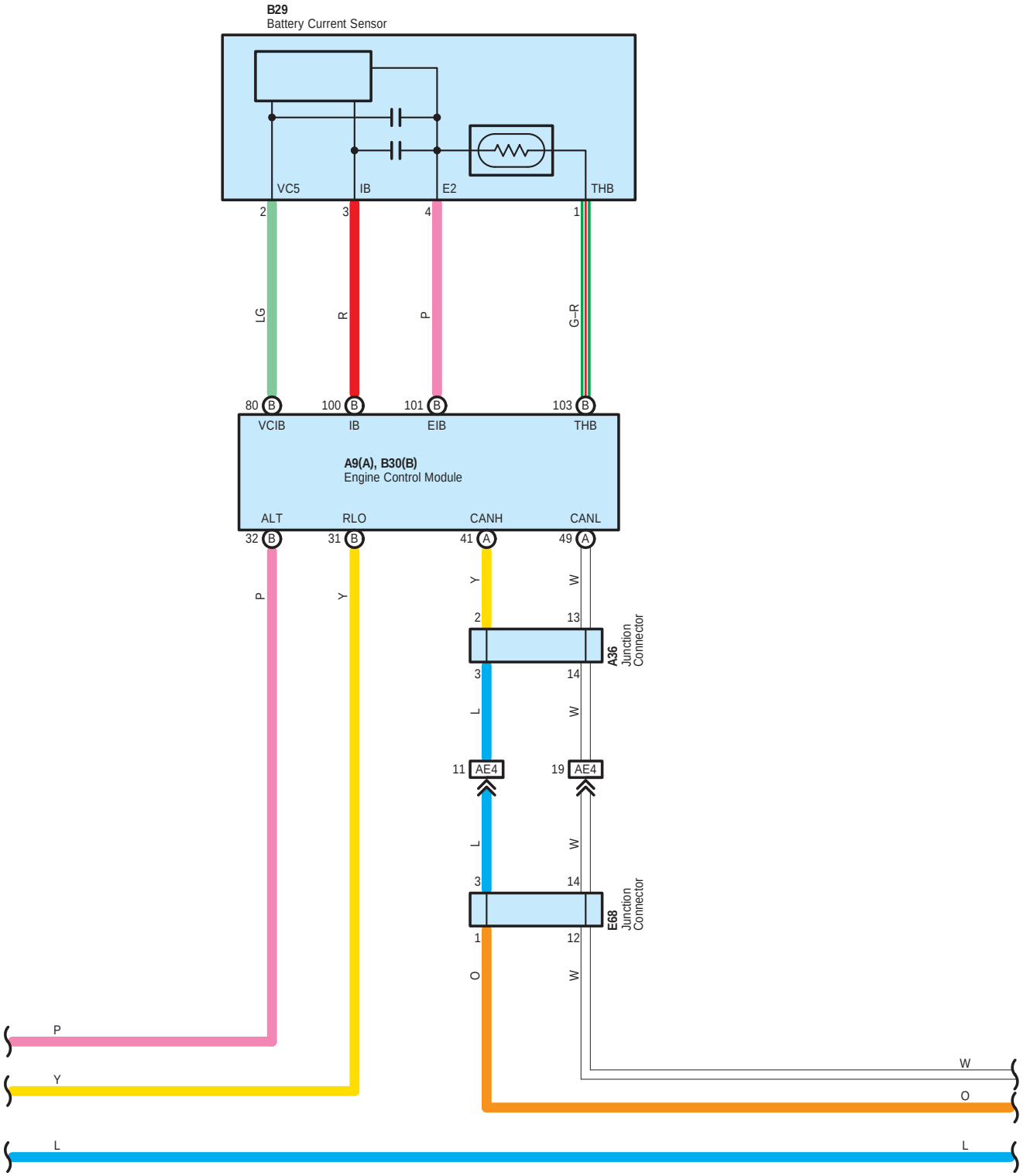
Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
B1	65 (2AZ–FE)	Left Side of the Cylinder Head

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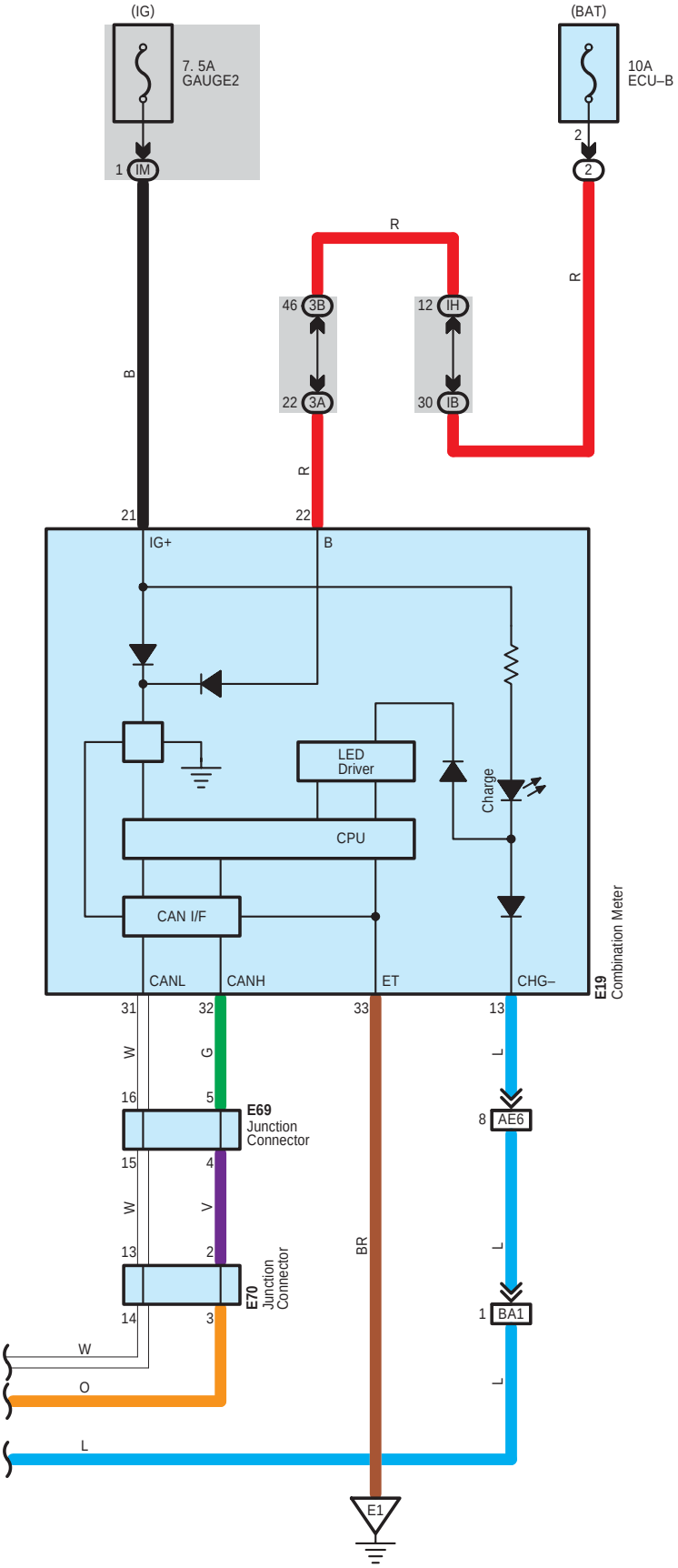
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	50 (2GR–FE)	B29	51 (2GR–FE)	E69	55
A36	56	B30 B	51 (2GR–FE)	E70	55
B20 A	51 (2GR–FE)	E19	54		
B21 B	51 (2GR–FE)	E68	55		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	22 (2GR–FE)	Engine Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	

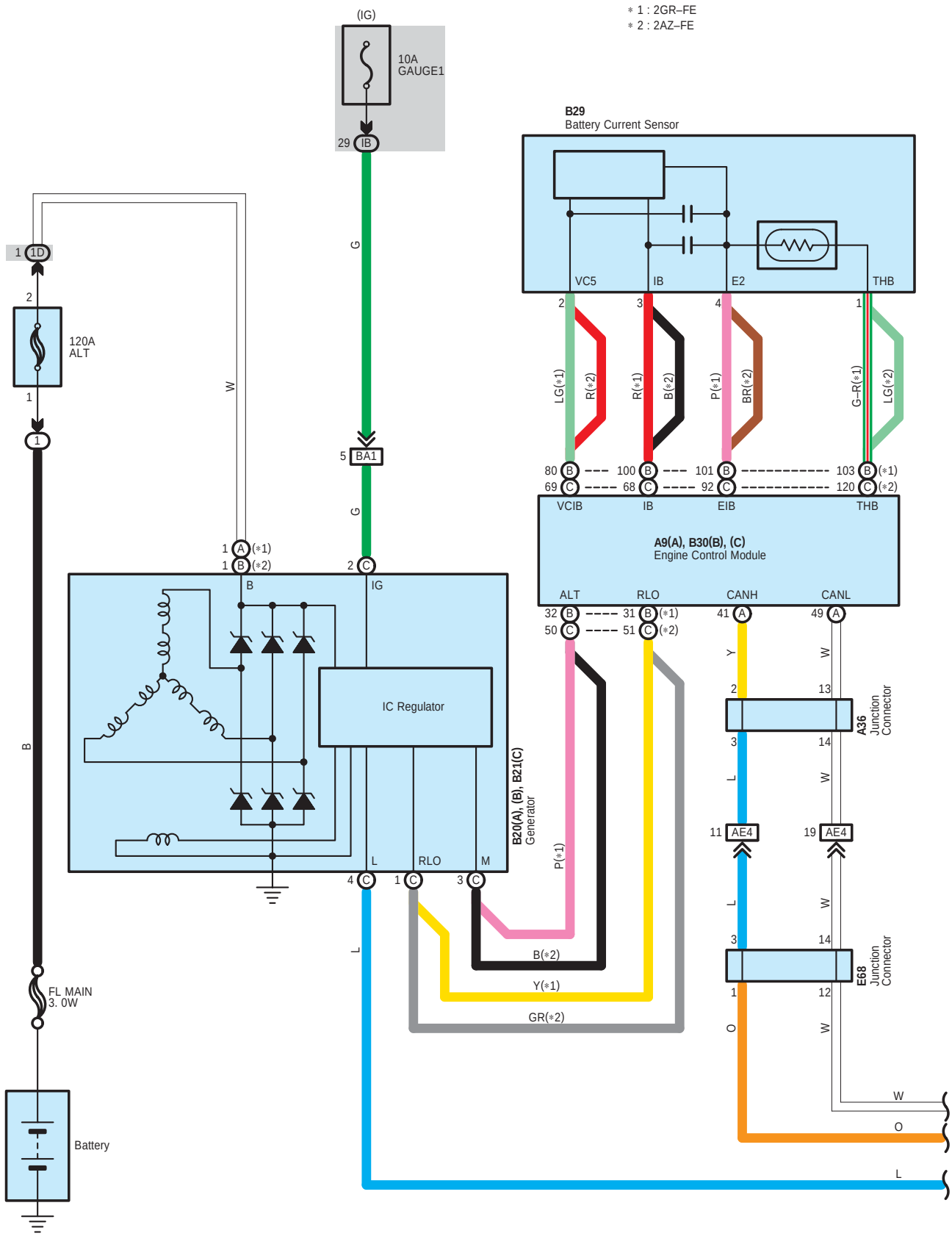
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)

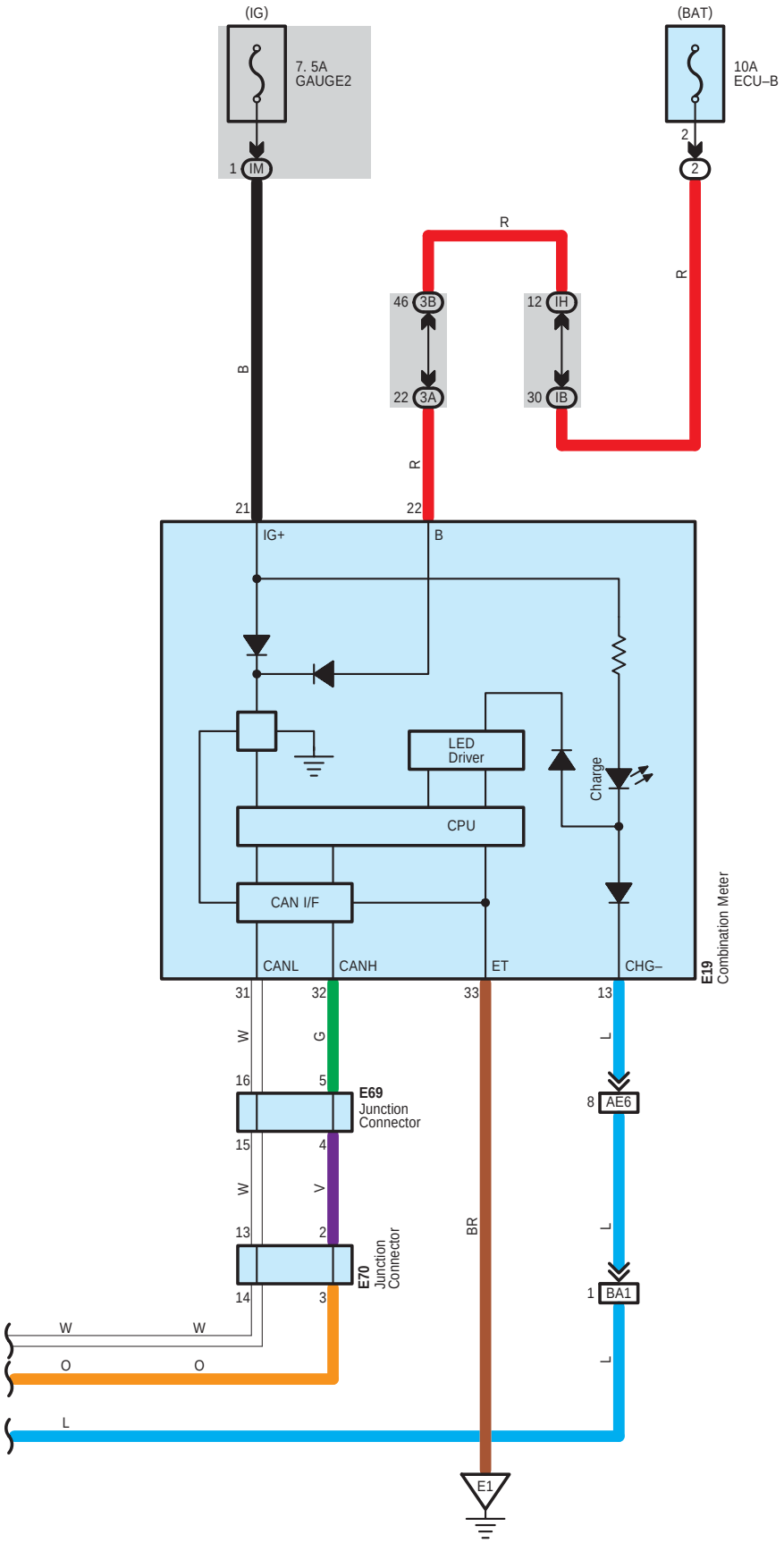
: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel

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: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	50 (2GR–FE)	B21	C	51 (2GR–FE)	B30	C	53 (2AZ–FE)
		52 (2AZ–FE)			53 (2AZ–FE)	E19		54
A36		56	B29		51 (2GR–FE)	E68		55
B20	A	51 (2GR–FE)			53 (2AZ–FE)	E69		55
	B	53 (2AZ–FE)	B30	B	51 (2GR–FE)	E70		55

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	22 (2GR–FE)	Engine Wire and Engine Room J/B (Engine Compartment Left)
	23 (2AZ–FE)	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	

: Connector Joining Wire Harness and Wire Harness

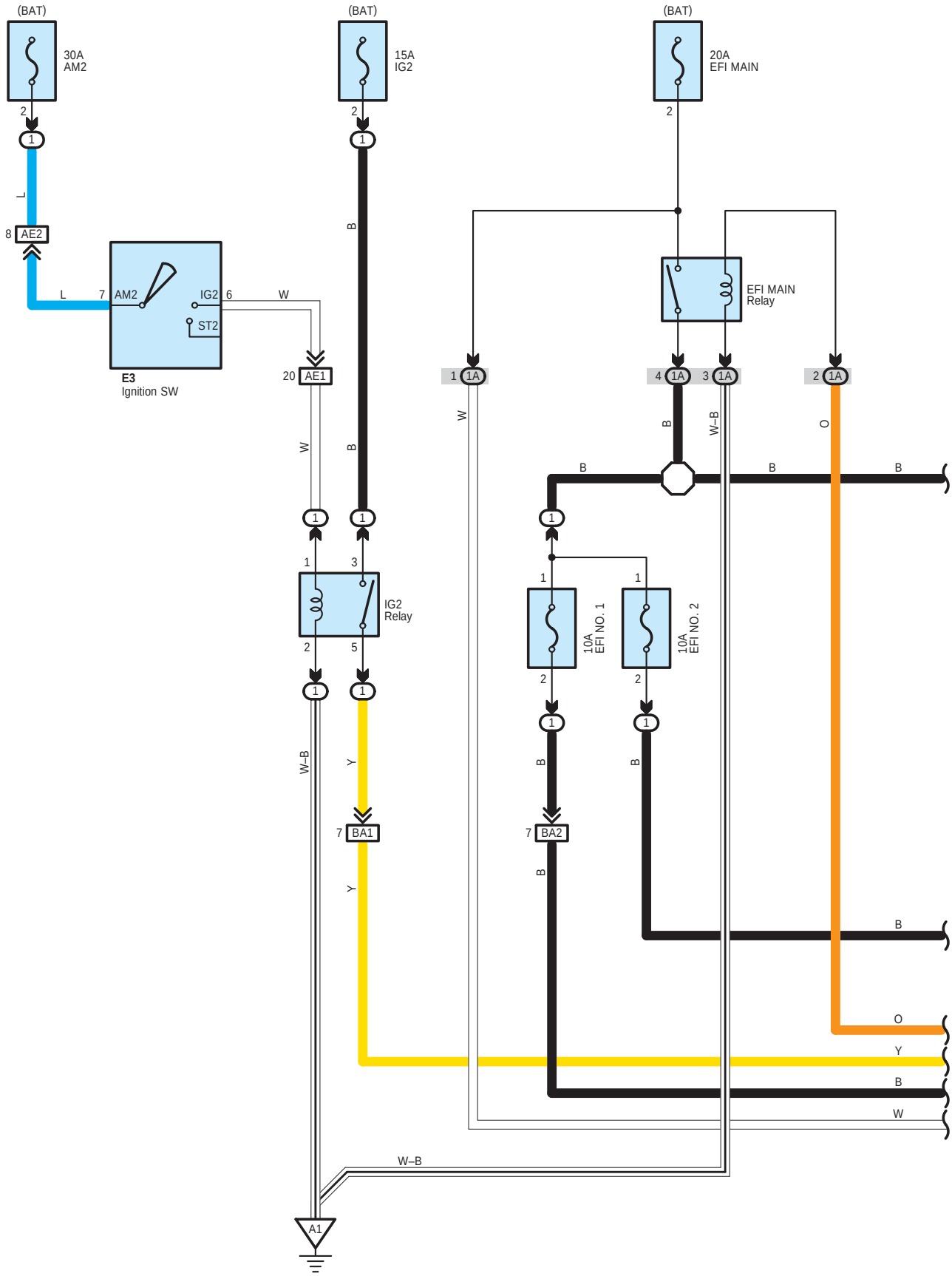
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	

: Ground Points

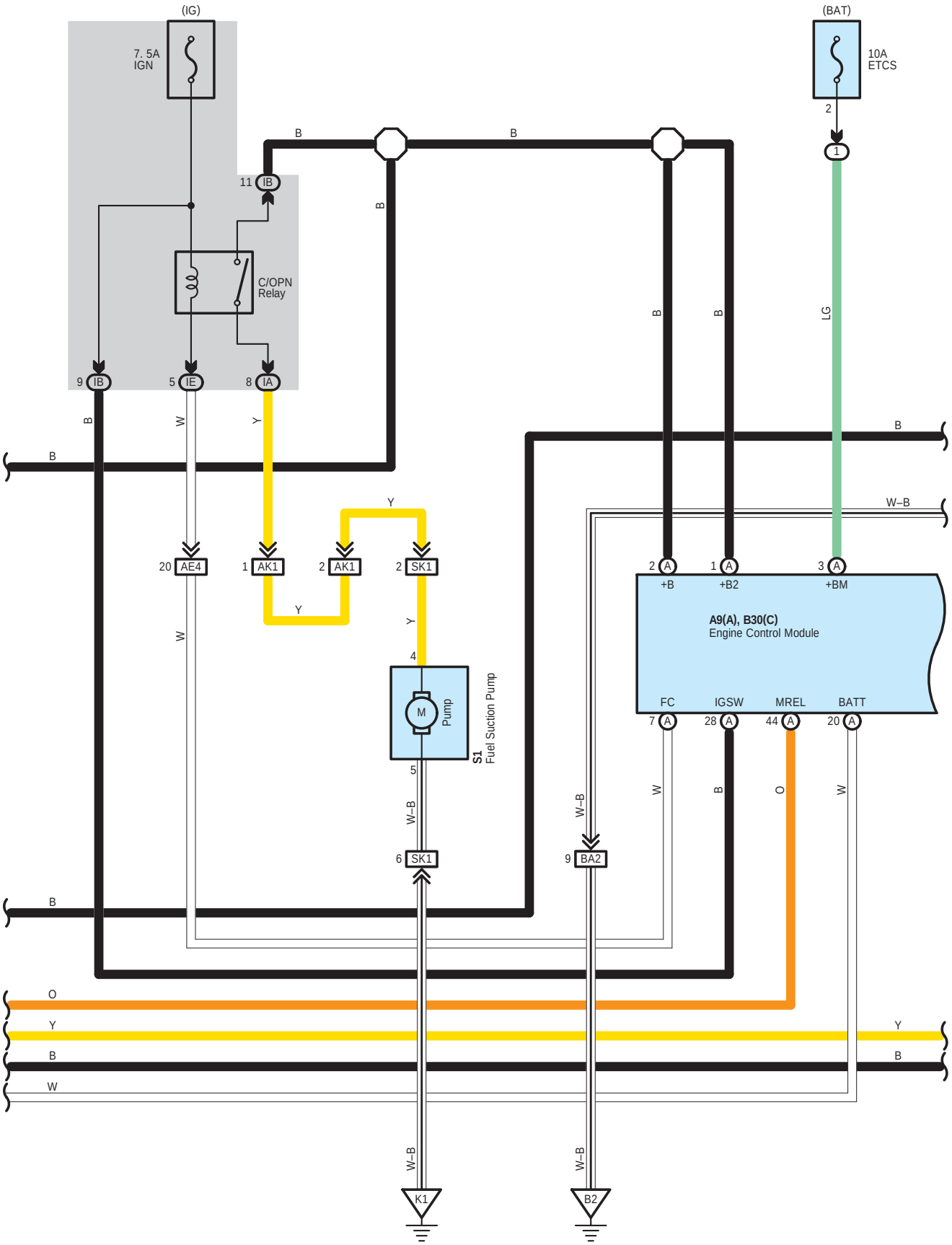
Code	See Page	Ground Points Location
E1	66	Left Kick Panel

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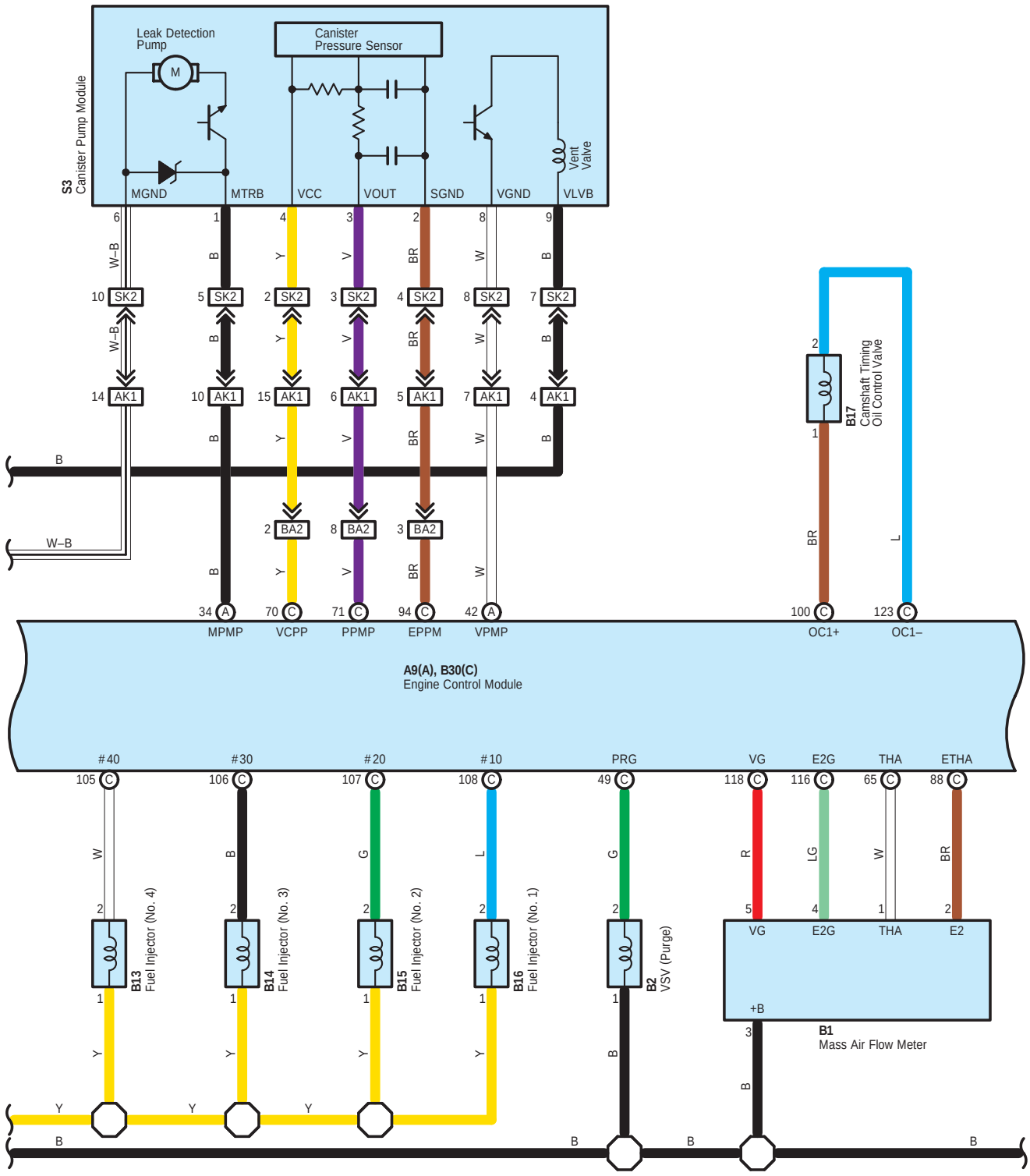
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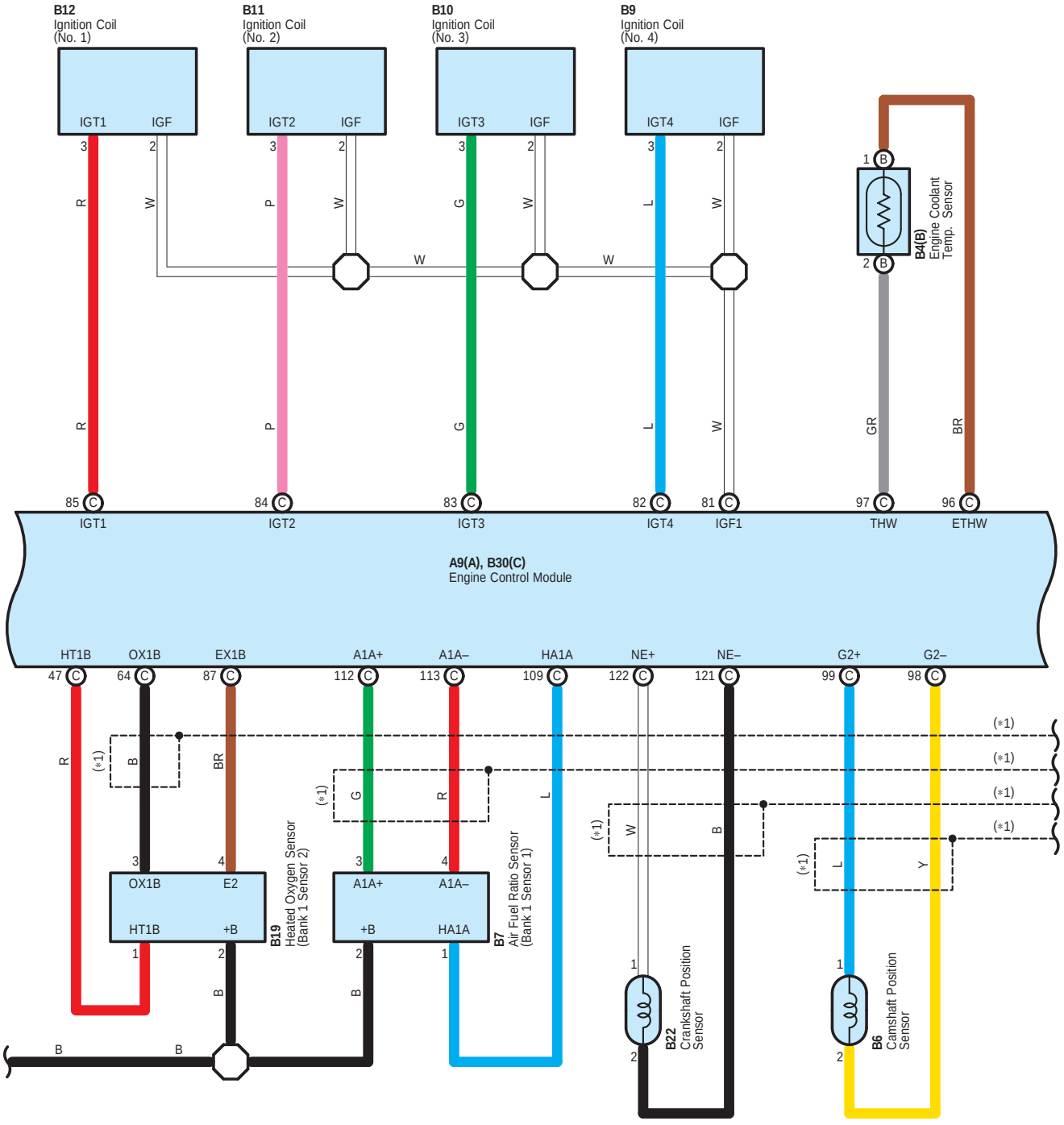


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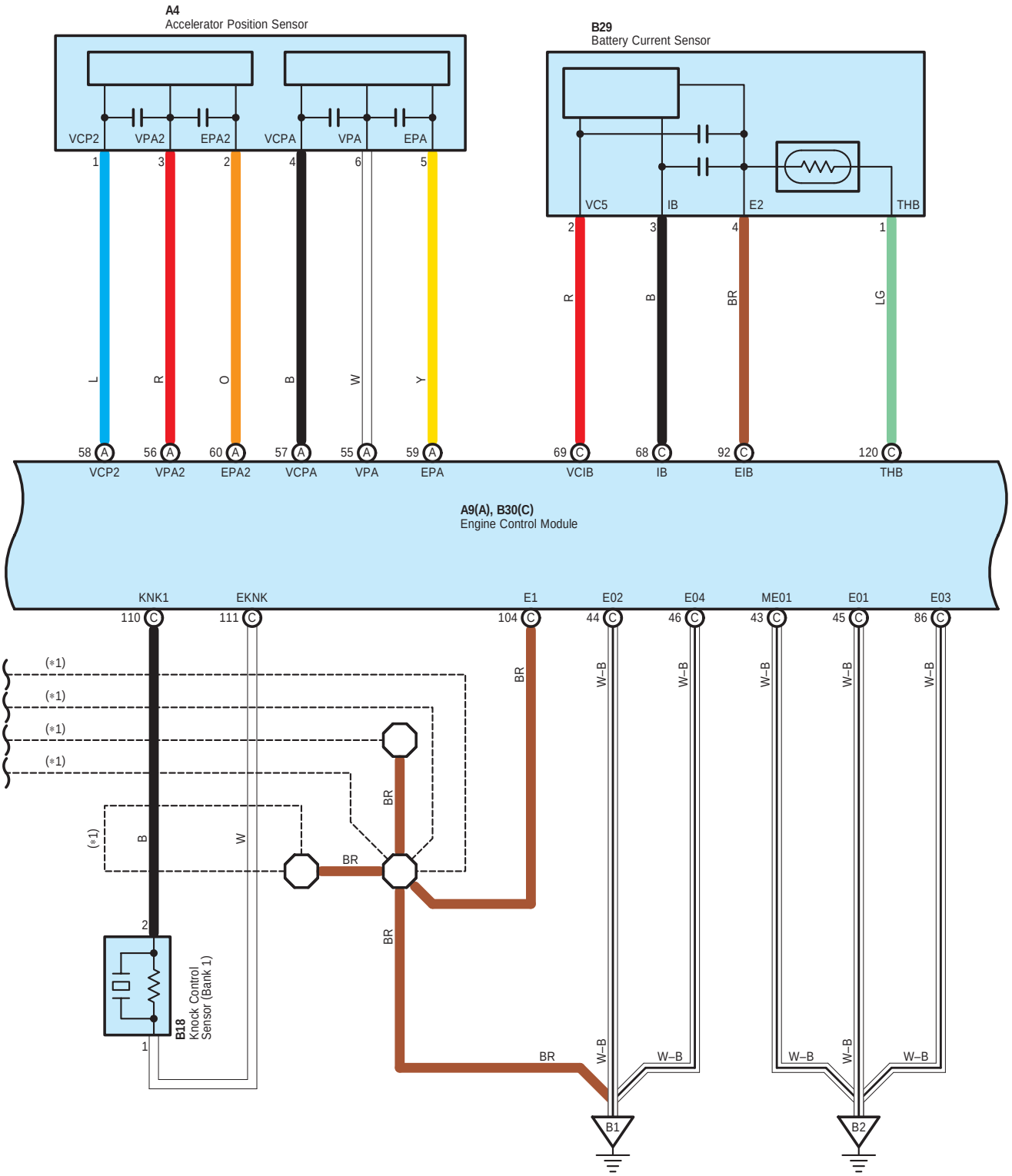
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∗ 1 : Shielded

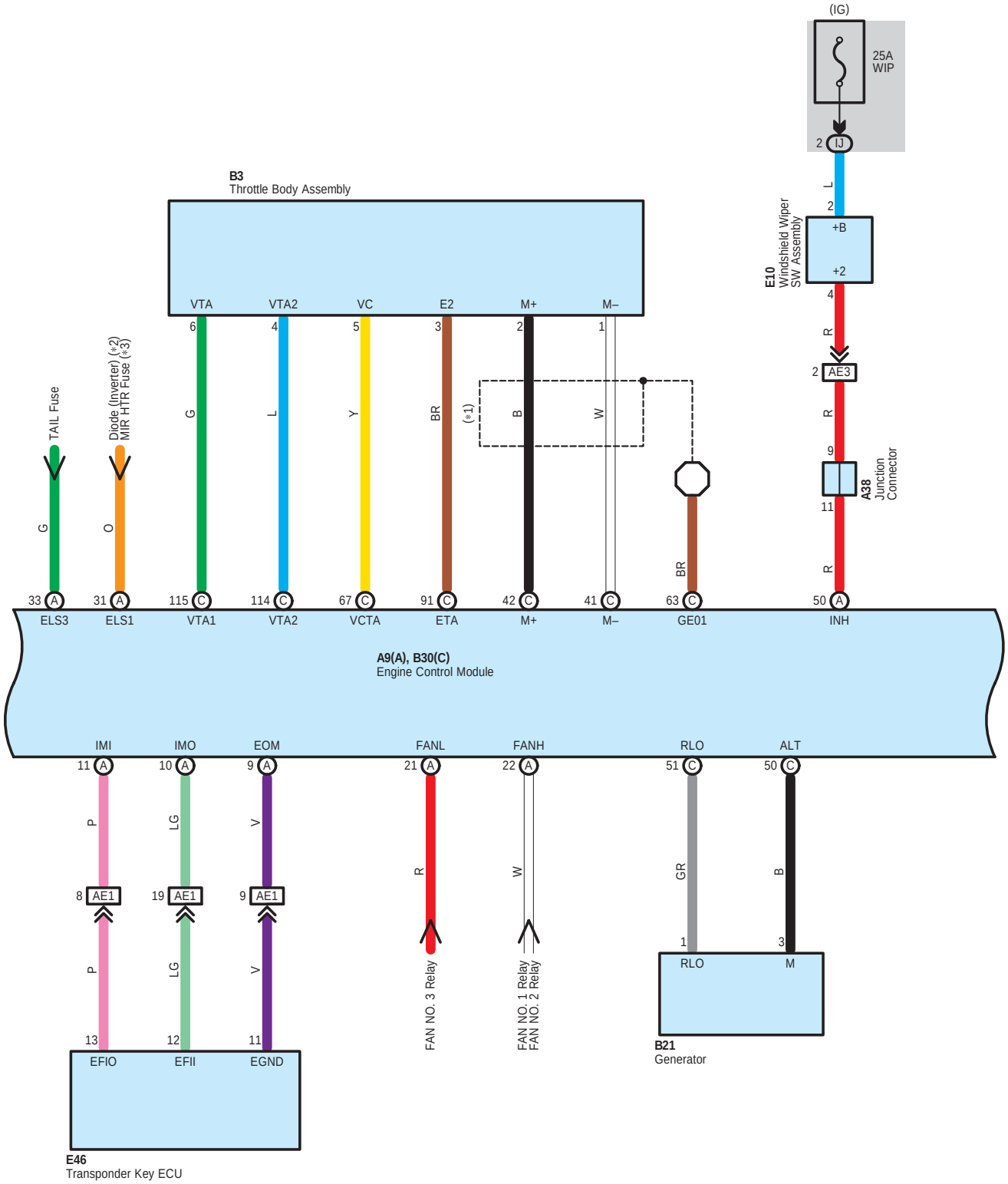


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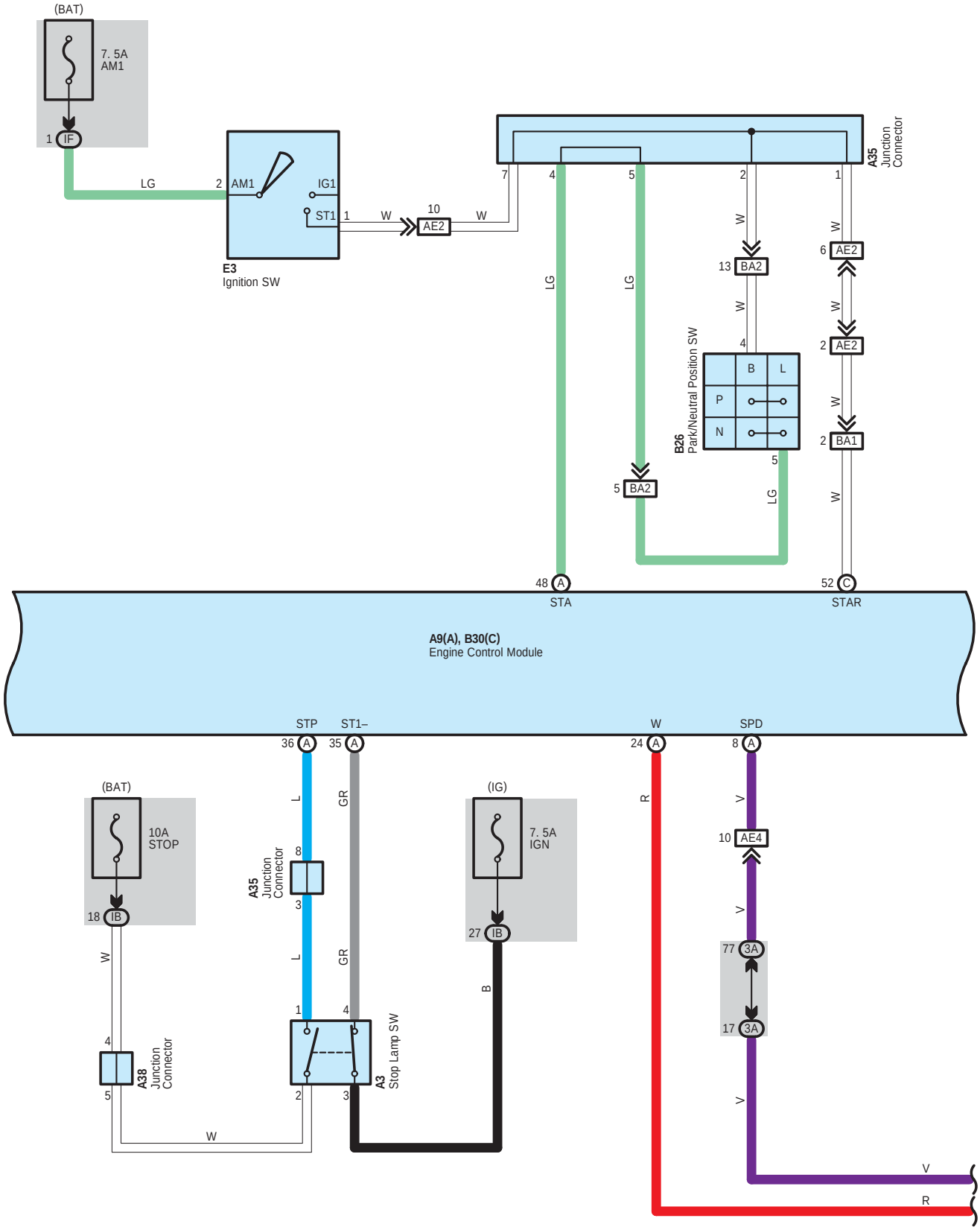
* 1 : Shielded
* 2 : w/ Power Outlet (115V)
* 3 : w/o Power Outlet (115V)



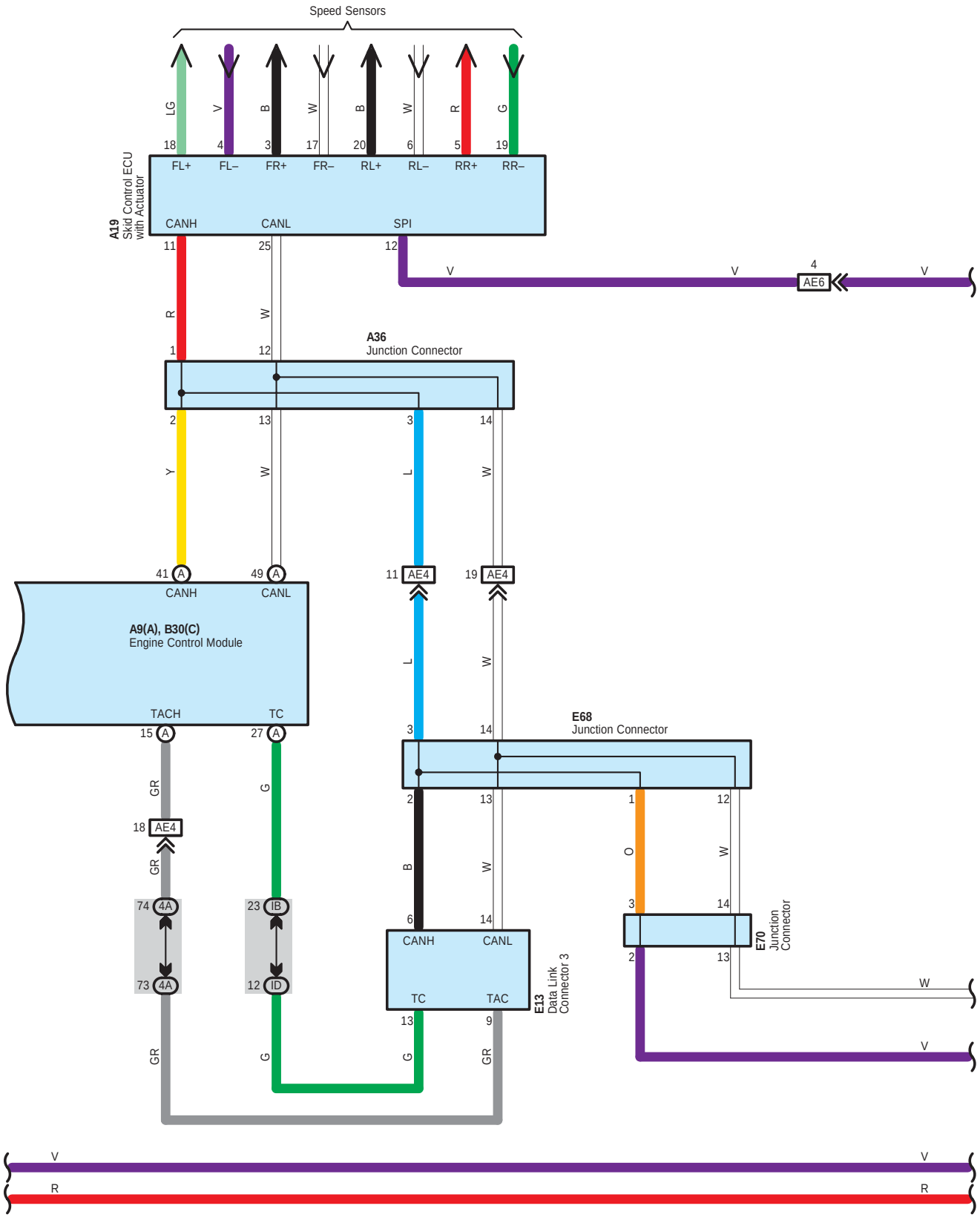
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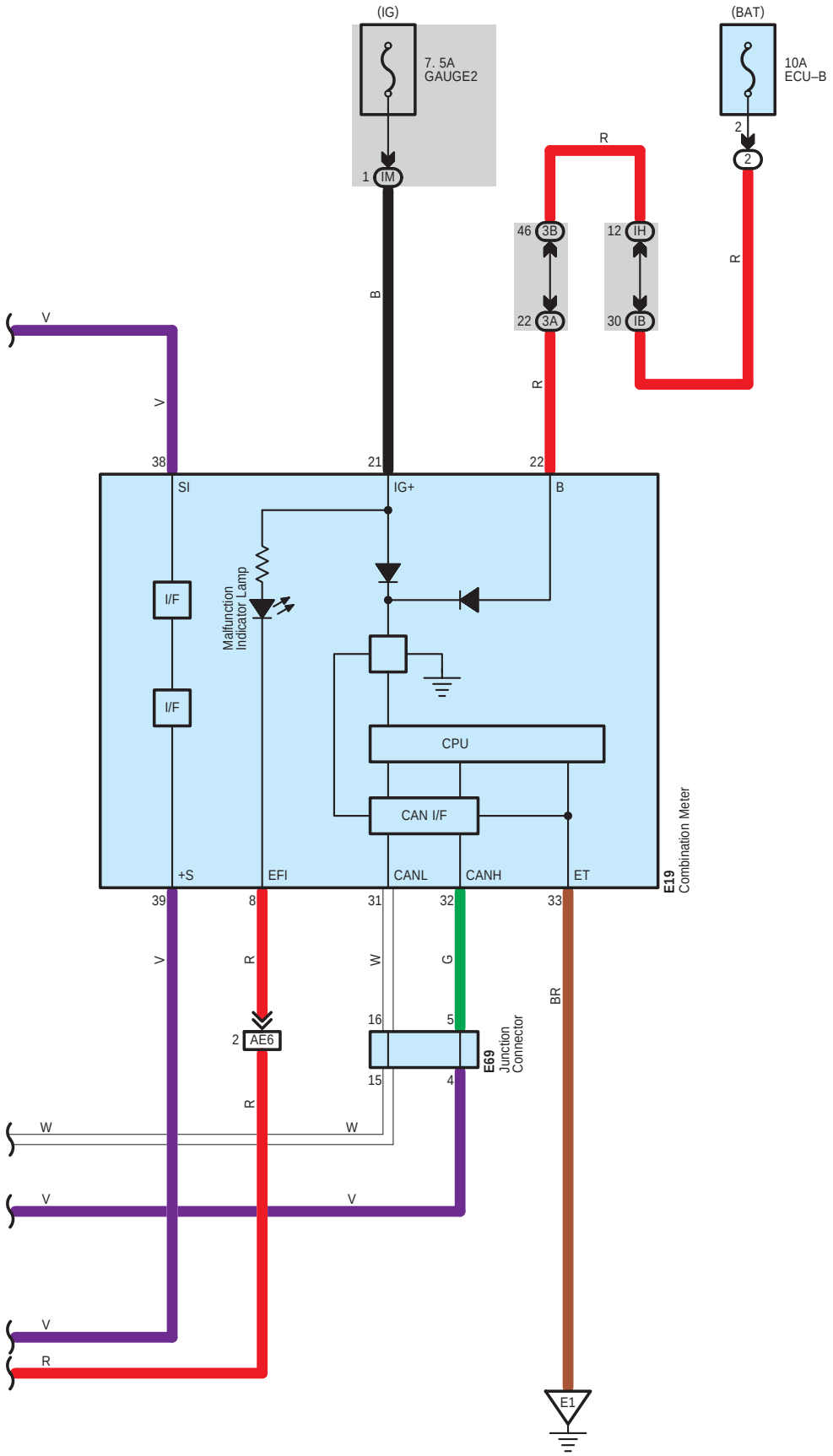
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System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance, which varies according to the engine coolant temp.. The engine coolant temp. which is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp. which is input as a control signal to TERMINAL THA of the engine control module.

(3) Vehicle speed signal circuit

The vehicle speed signal is input from the speed sensor to skid control ECU with actuator, and are sent to the engine control module through communication control.

(4) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G2+ of the engine control module, and engine RPM is input into TERMINAL NE+.

(5) Throttle position signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine control module.

(6) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. With the ignition SW turned on, the voltage for engine control module start–up power supply is applied to TERMINALS +B and +B2 of the engine control module via the EFI MAIN relay.

The current flowing through the IGN fuse flows to TERMINAL IGSW of the engine control module.

(7) Intake air volume signal circuit

Intake air volume is detected by the mass air flow meter and the signal is input to TERMINAL VG of the engine control module as a control signal.

(8) Stop lamp SW signal circuit

The stop lamp SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine control module as a control signal.

(9) Starter signal circuit

To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into TERMINAL STA of the engine control module as a control signal.

(10) Engine knock signal circuit

Engine knocking is detected by knock sensor and the signal is input into TERMINAL KNK1 as a control signal.

(11) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINAL A1A+ of the engine control module.

(12) Oxygen sensor signal circuit

The oxygen density in the exhaust gases is detected and input as a control signal into TERMINAL OX1B of the engine control module. To maintain stable detection performance by the heated oxygen sensor, a heater is used for warning the sensor. The heater is also controlled by engine control module (O1B–).

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2. Control System

* SFI system
  The SFI system monitors the engine condition through the signals input from each sensor to the engine control module. And the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector (Inject the fuel). The SFI system controls the fuel injection operation by the engine control module in response to the driving conditions.
* ESA system
  The ESA system monitors the engine condition through the signals input to the engine control module from each sensor. The best ignition timing is decided according to this data and the memorized data in the engine control module and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the malfunction indicator lamp.

4. Fail–safe System

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the engine control module memory or else stops the engine.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B9	53 (2AZ–FE)	B26	53 (2AZ–FE)
A4	56	B10	53 (2AZ–FE)	B29	53 (2AZ–FE)
A9 A	52 (2AZ–FE)	B11	53 (2AZ–FE)	B30 C	53 (2AZ–FE)
A19	52 (2AZ–FE)	B12	53 (2AZ–FE)	E3	54
A35	56	B13	53 (2AZ–FE)	E10	54
A36	56	B14	53 (2AZ–FE)	E13	54
A38	56	B15	53 (2AZ–FE)	E19	54
B1	53 (2AZ–FE)	B16	53 (2AZ–FE)	E46	55
B2	53 (2AZ–FE)	B17	53 (2AZ–FE)	E68	55
B3	53 (2AZ–FE)	B18	53 (2AZ–FE)	E69	55
B4 B	53 (2AZ–FE)	B19	53 (2AZ–FE)	E70	55
B6	53 (2AZ–FE)	B21	53 (2AZ–FE)	S1	61
B7	53 (2AZ–FE)	B22	53 (2AZ–FE)	S3	61

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	23 (2AZ–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	27 (2AZ–FE)	Engine Room R/B No.2 (Engine Compartment Right)

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: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IF		
IH		
IJ		
IM	31	

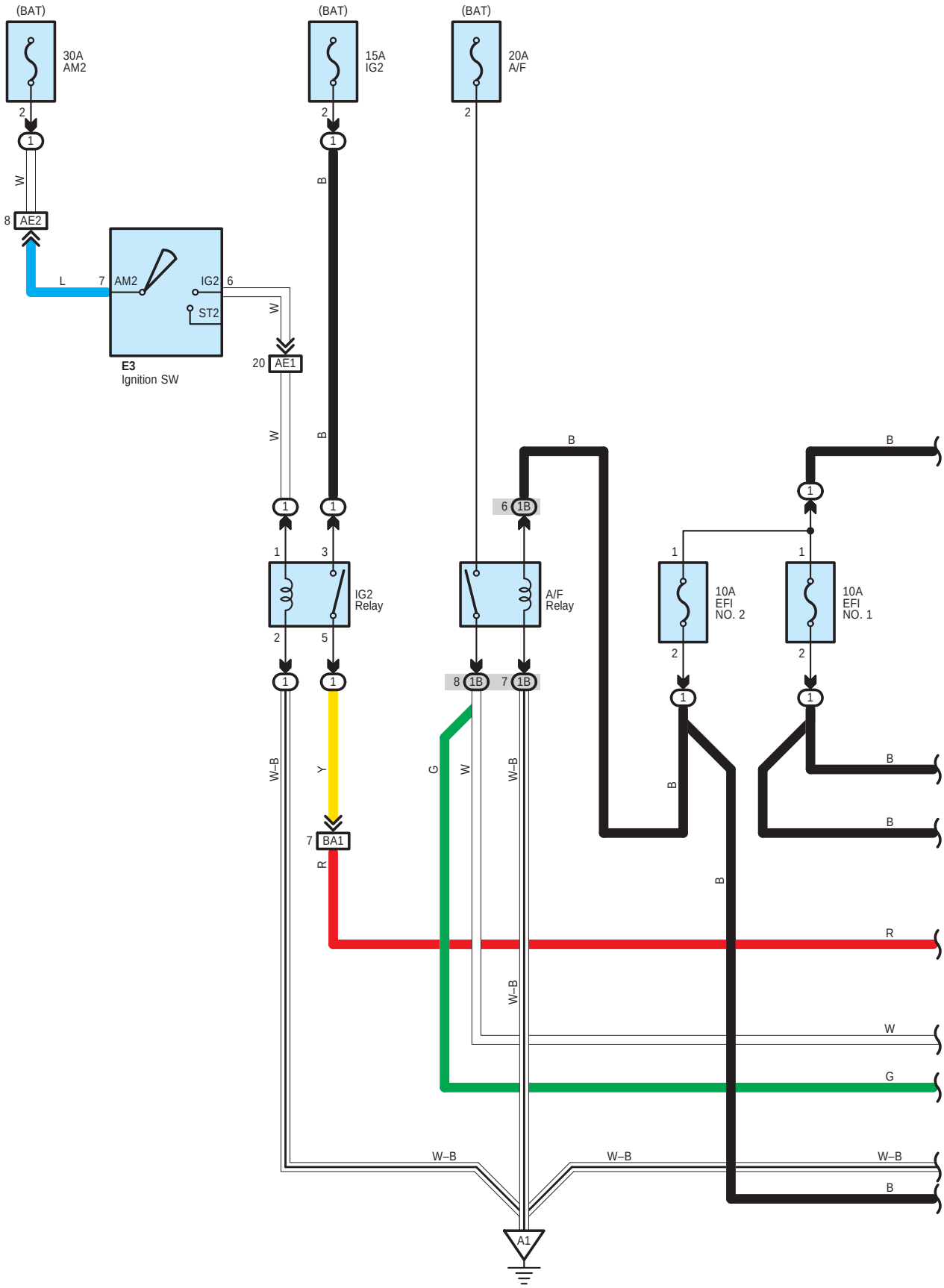
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		
AE3		
AE4		
AE6		
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)
BA1	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA2		
SK1	66	Fuel Gauge Wire and Floor Wire (Under the Console Box)
SK2		

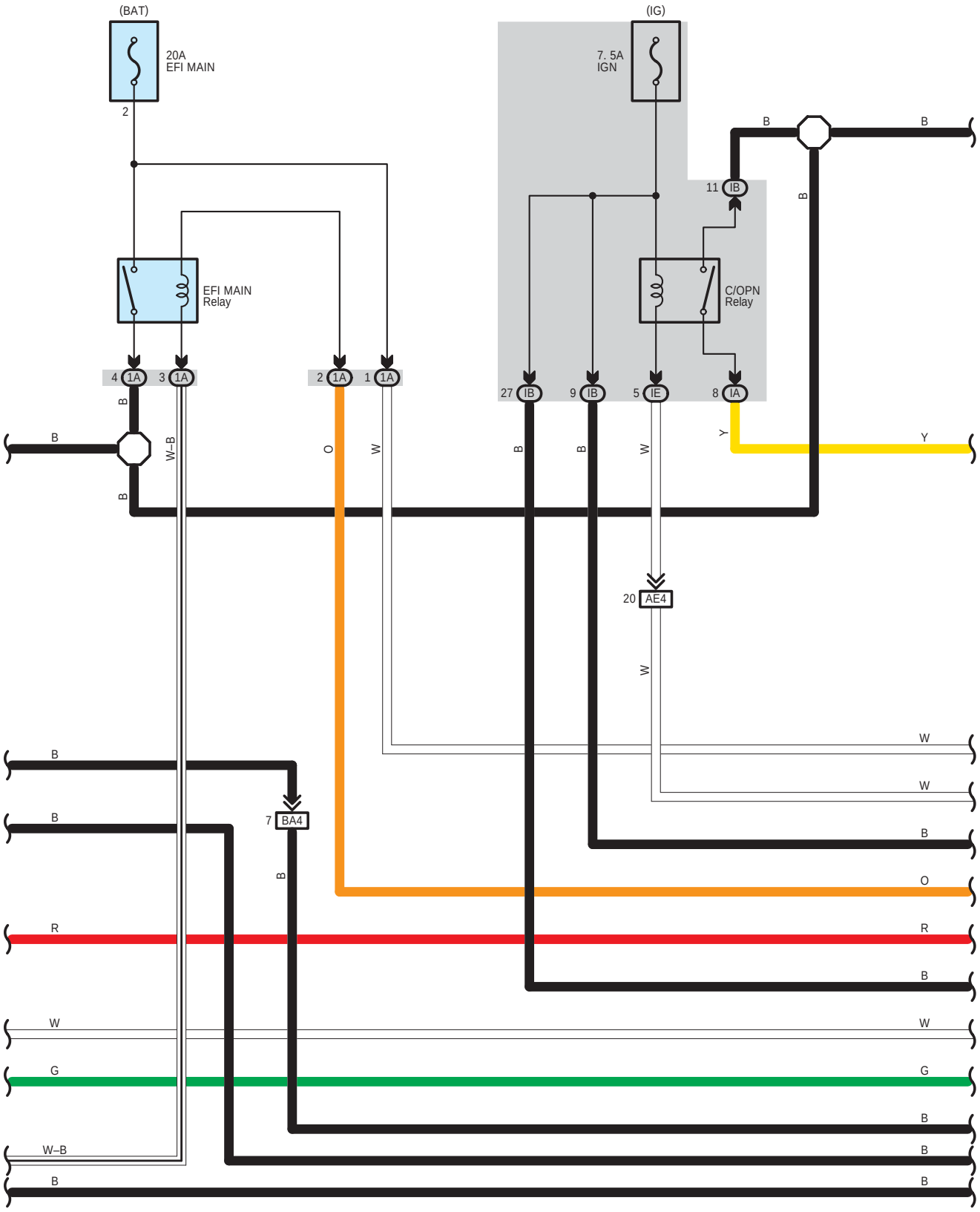
: Ground Points

Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
E1	66	Left Kick Panel
K1	67	Left Center Pillar

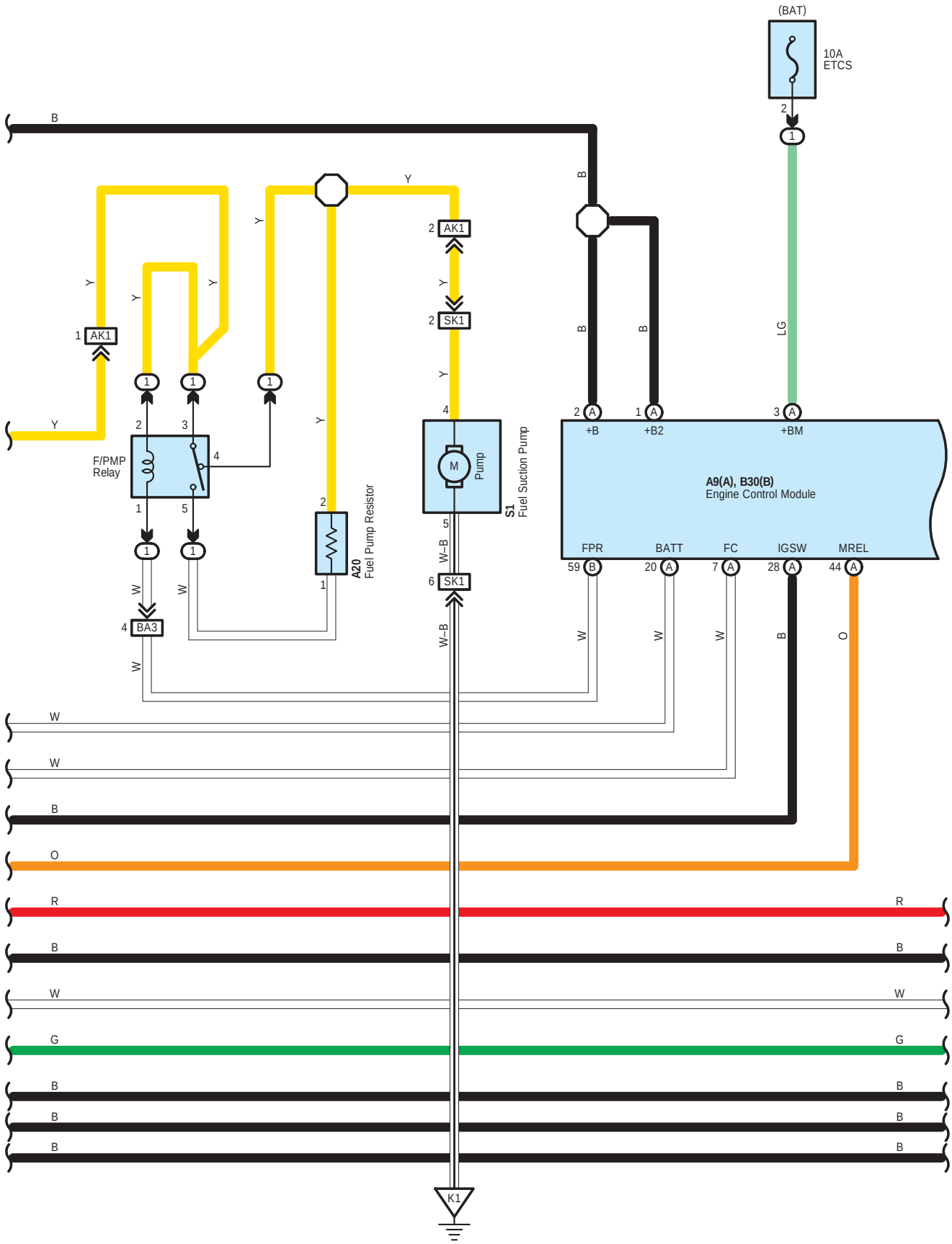
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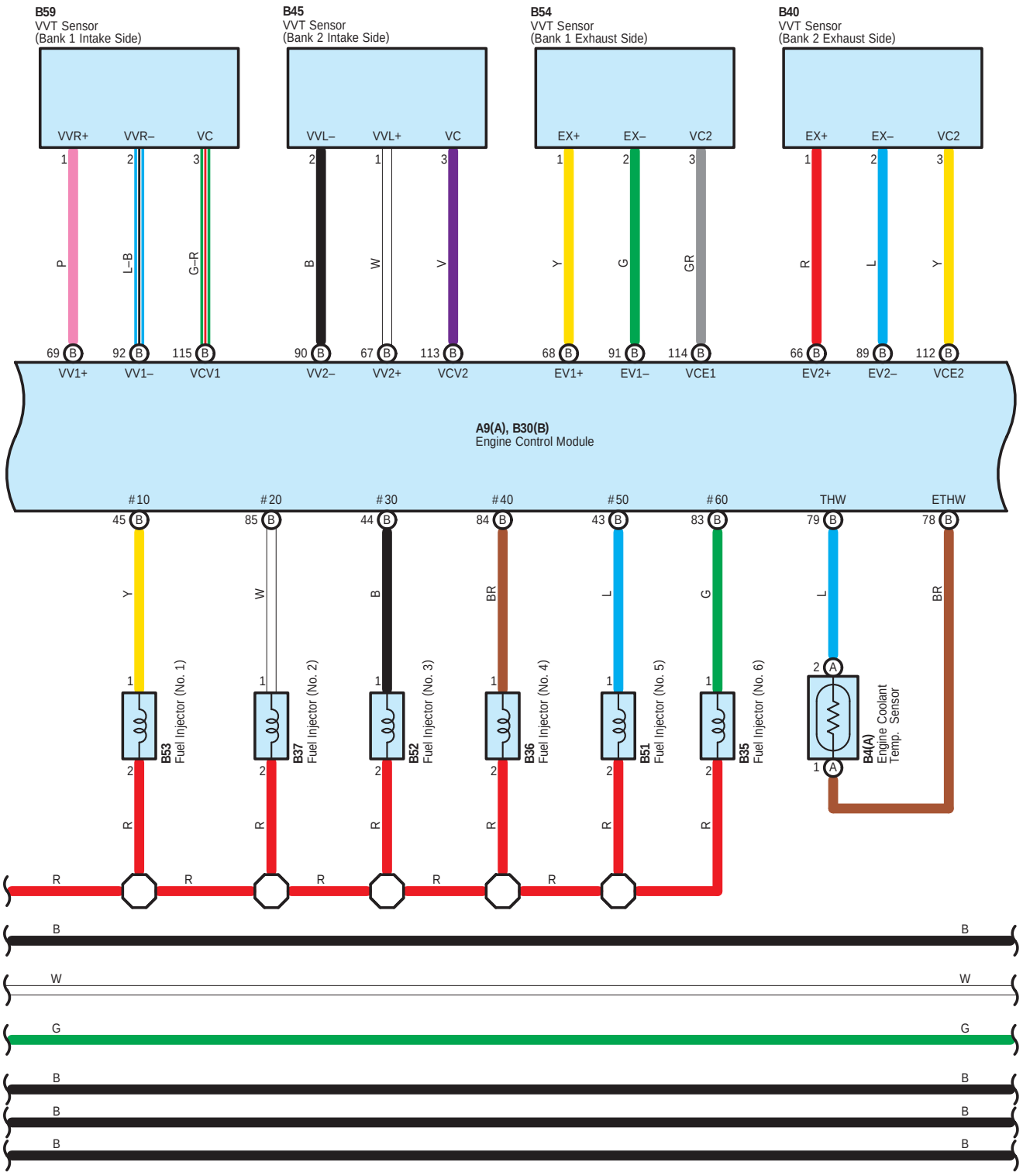
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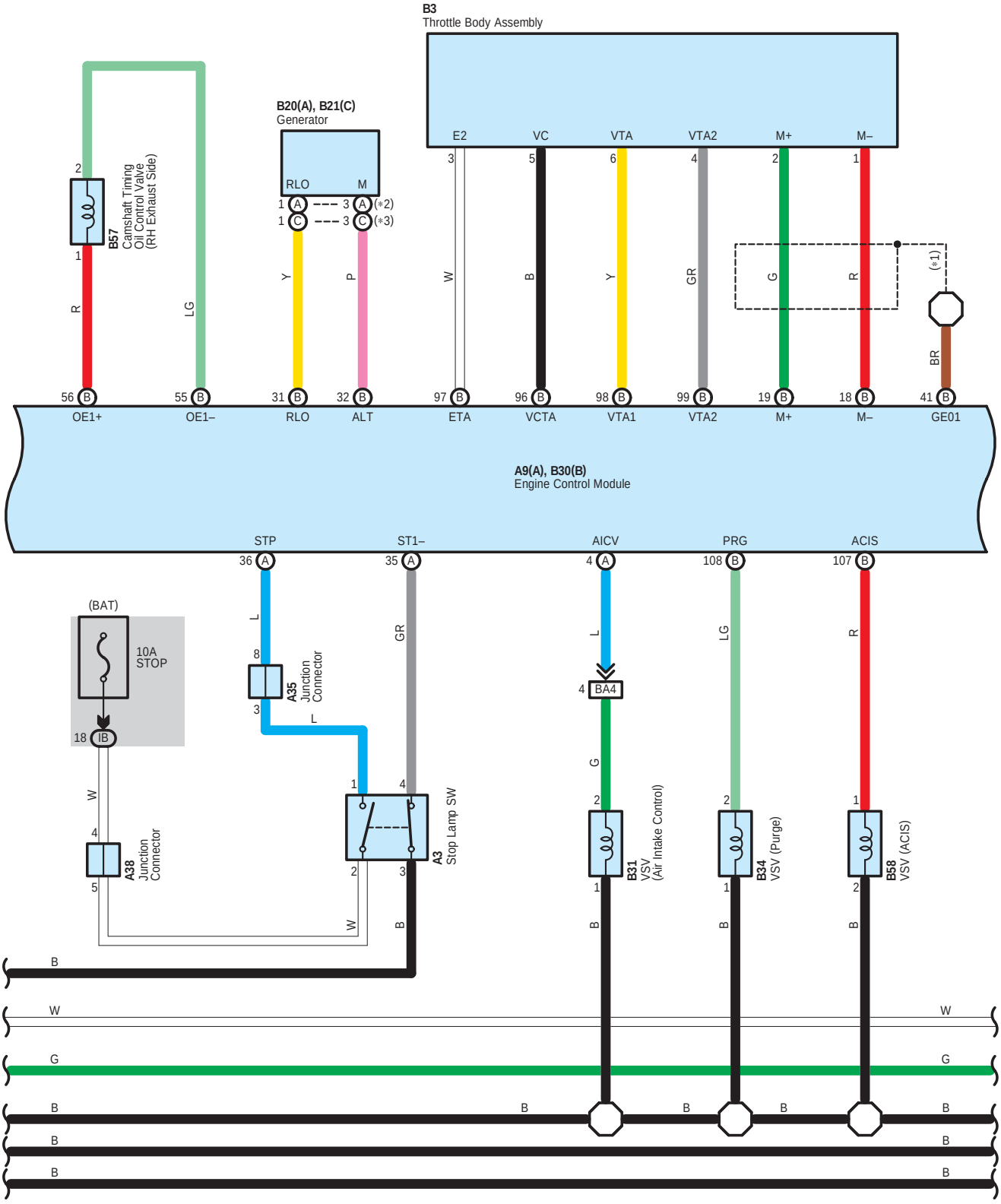
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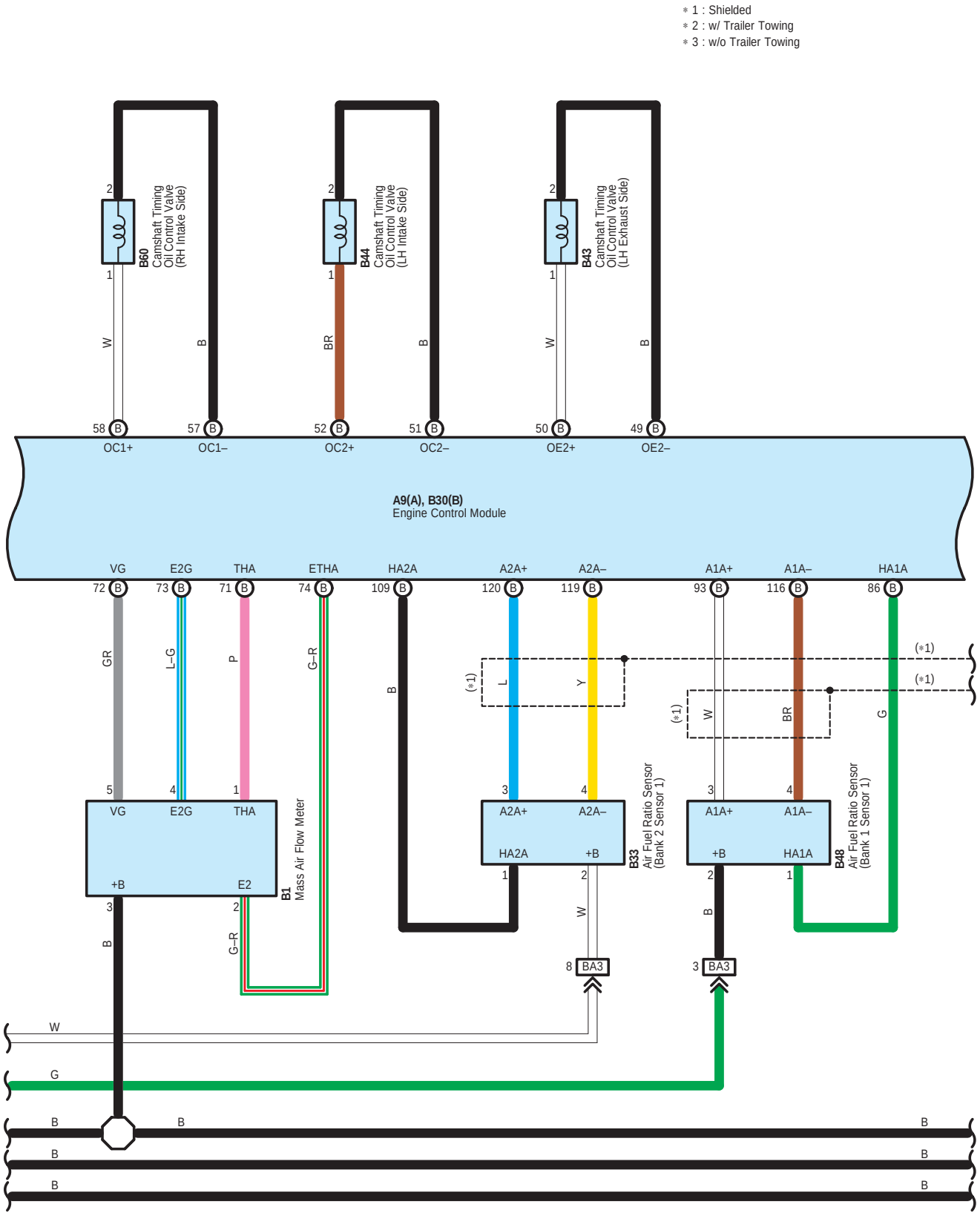
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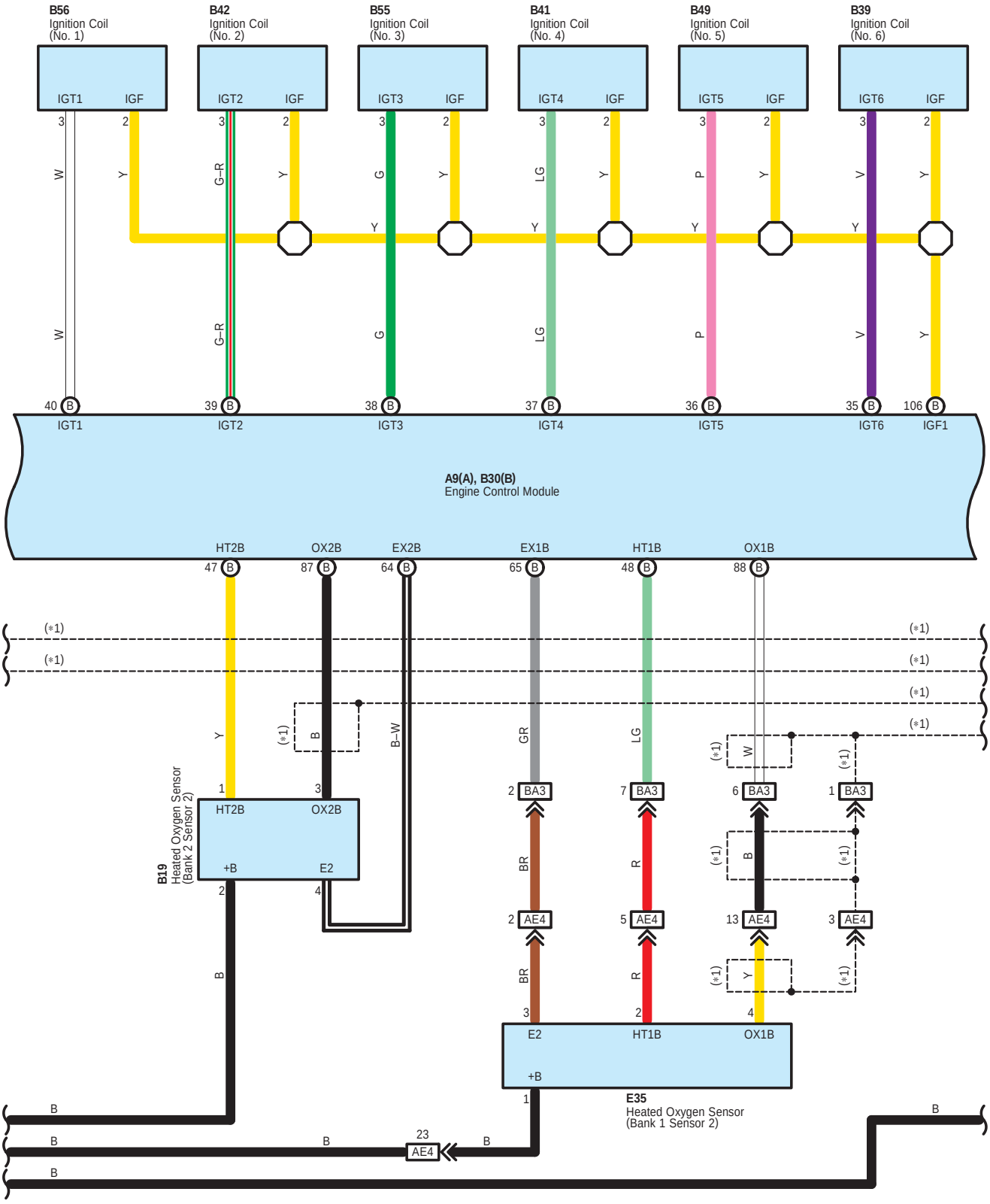
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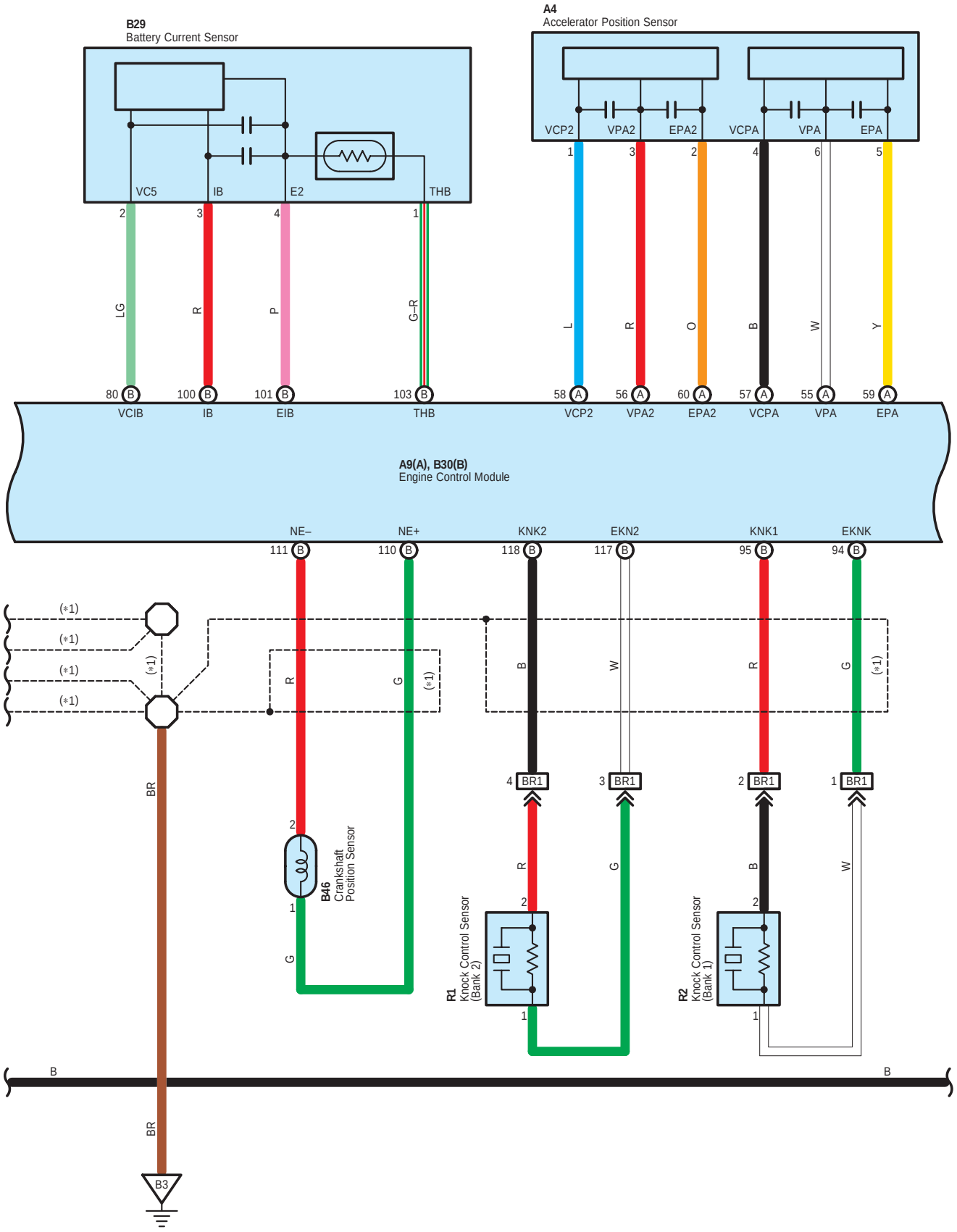


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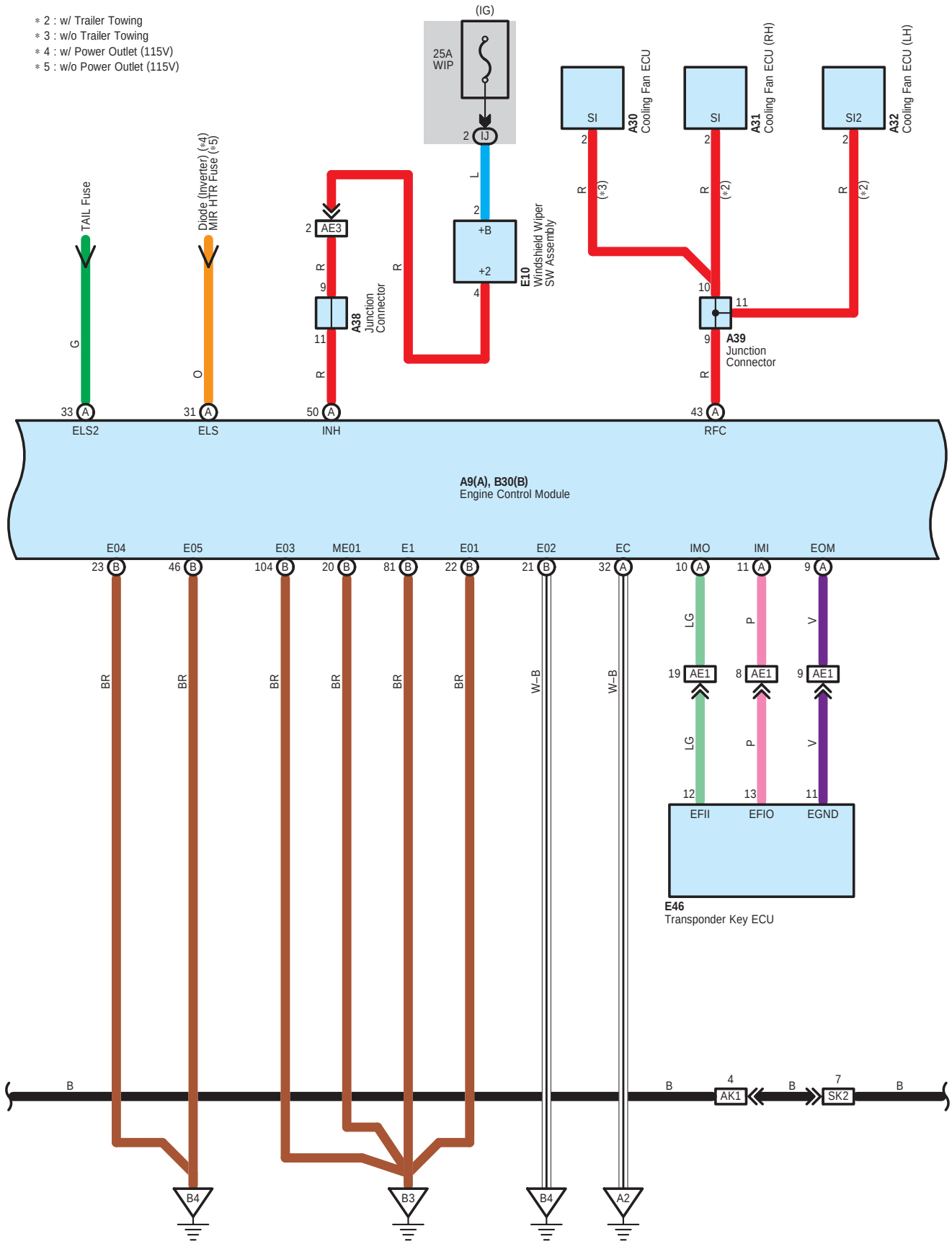


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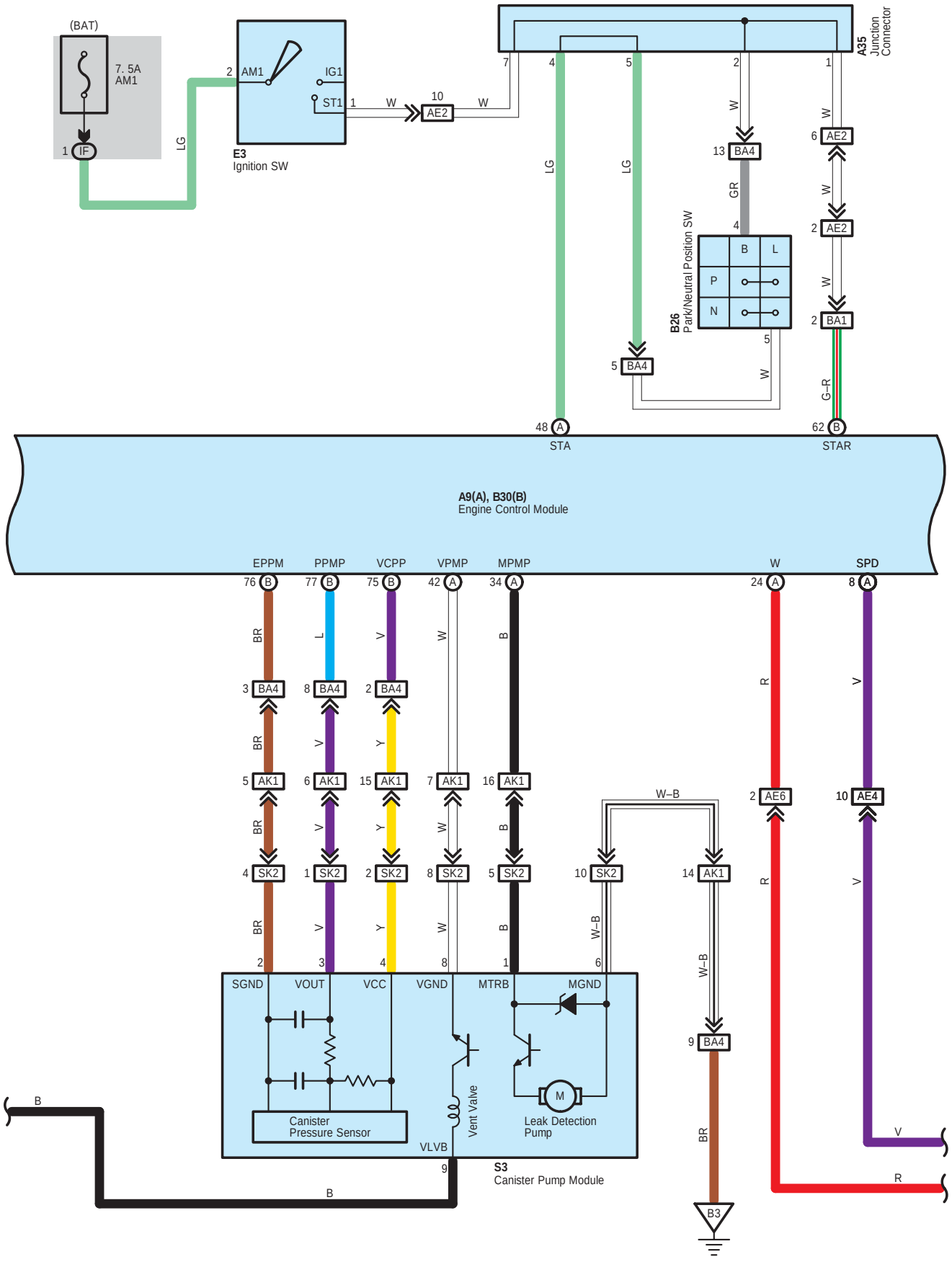
∗ 1 : Shielded



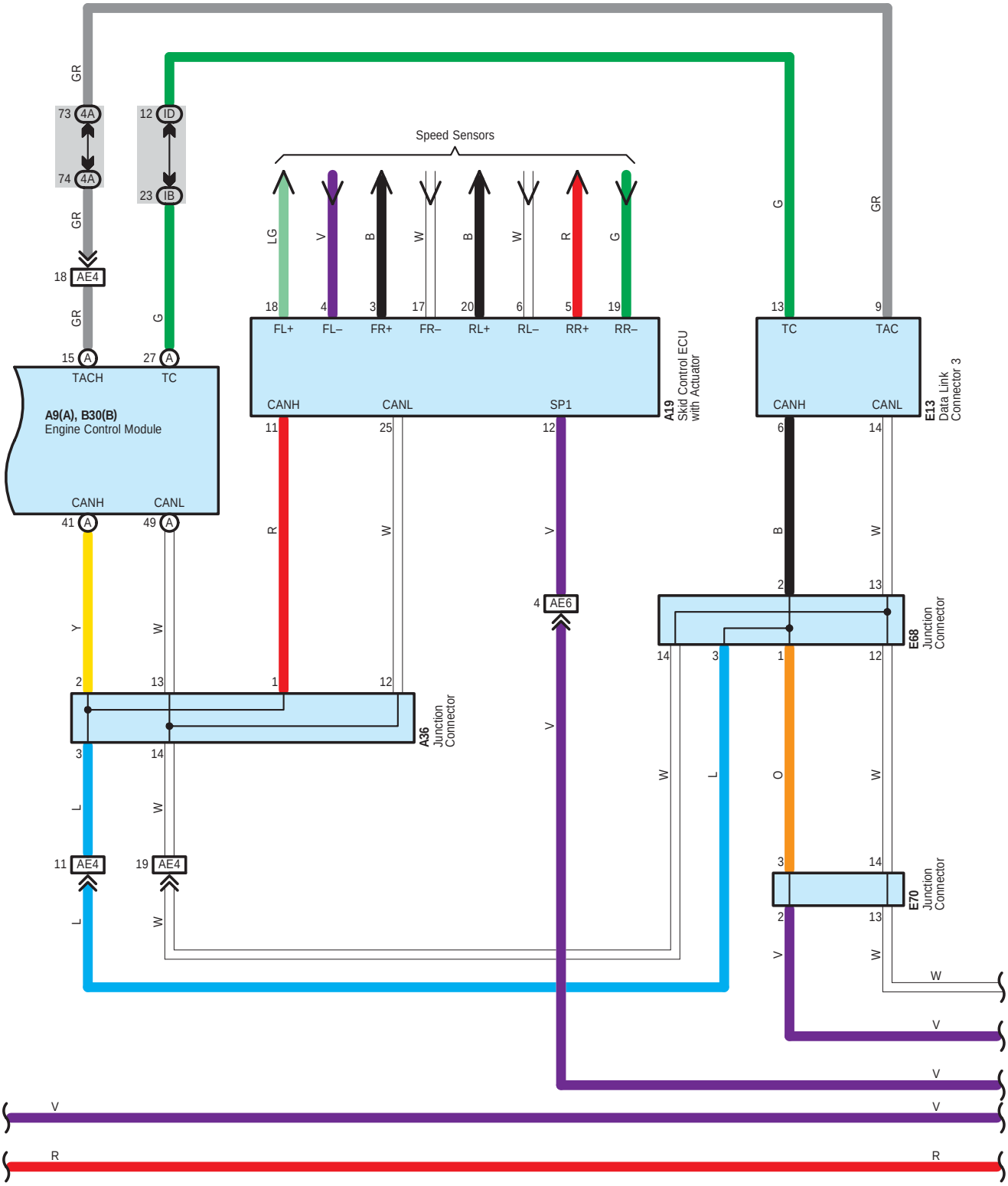
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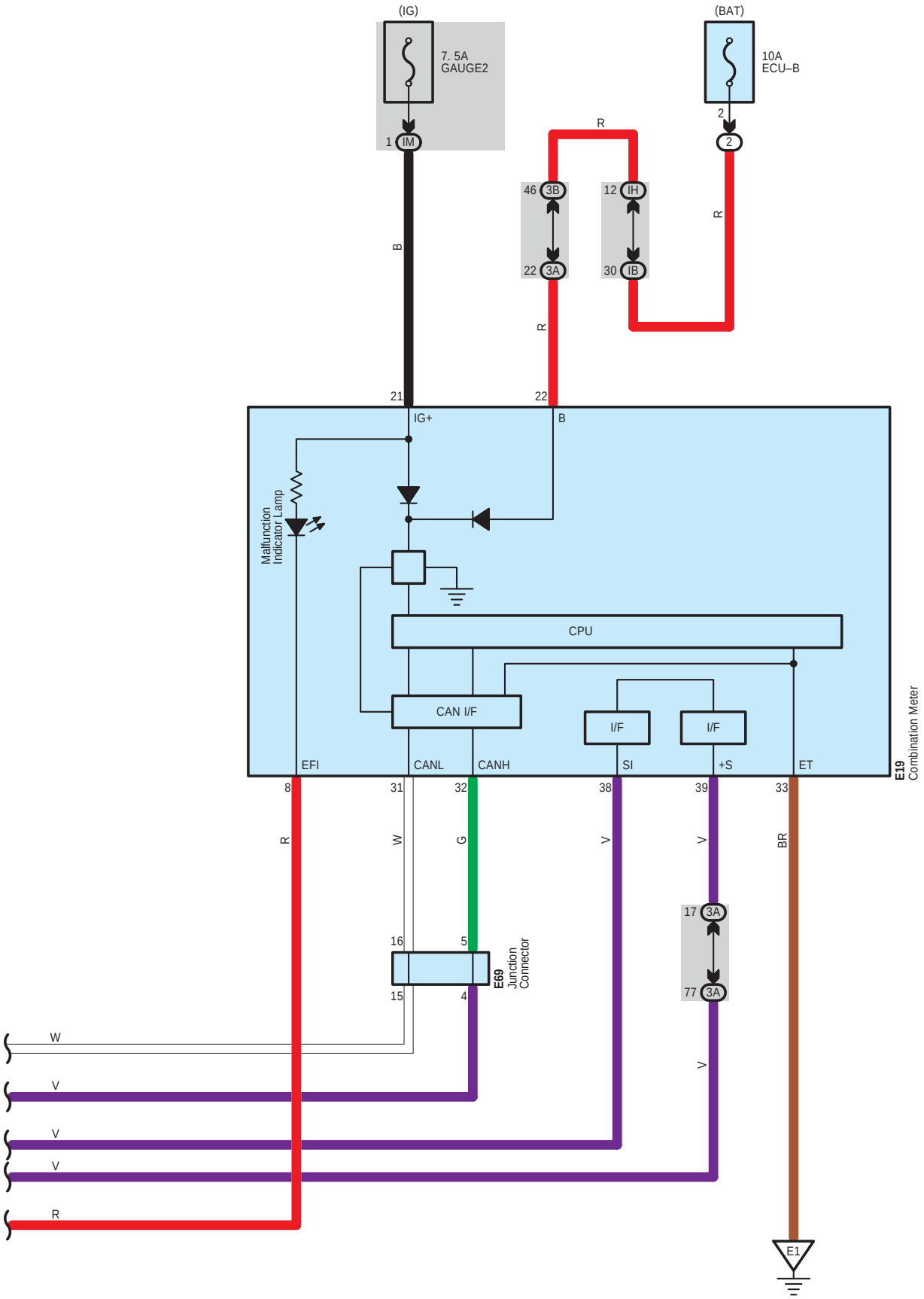
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System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transaxle etc. An outline of the engine control is given here.

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp. is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1B and OX2B of the engine control module.

(4) RPM signal circuit

Camshaft position is detected by the VVT sensor (Bank 1 exhaust side, bank 1 intake side and bank 2 exhaust side), VVT sensor (Bank 2 intake side) and their signals are input to TERMINALS EV1+, EV2+, VV1+ and VV2+ of the engine control module as control signals. Also, the engine RPM is detected by the crankshaft position sensor installed in the cylinder block and the signal is input into TERMINAL NE+ of the engine control module as a control signal.

(5) Throttle position sensor signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter, from TERMINAL SP1 of the skid control ECU with actuator.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW turned on, the voltage for engine control module start–up power supply is applied to TERMINAL +B and +B2 of engine control module via EFI MAIN relay.

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.

(9) Stop lamp SW signal circuit

The stop lamp SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine control module as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock control sensors, and is input into TERMINALS KNK1 and KNK2 of the engine control module as a control signal.

(12) Air fuel ratio signal circuit

The air fuel ratio is detected and input as a control signal into TERMINALS A1A+, A2A+ of the engine control module.

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2. Control System

∗ SFI system
The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #10, #20, #30, #40, #50 and #60 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.

∗ ESA system
The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6, and these signals control the igniter to provide the best ignition timing.

∗ Heated oxygen sensor heater control system
The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1B or HT2B to control the heater.

∗ Air fuel ratio sensor heater control system
The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.
The engine control module evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.

∗ ACIS
The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.

∗ ETCS–i
The ETCS–i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

∗ VVT–i
Controls the camshaft to an optimal valve timing in accordance with the engine condition.

3. Diagnosis System

When there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the malfunction indicator lamp.

4. Fail–Safe System

When a malfunction has occurred in any system, there is a possibility of causing engine trouble due to continued control based on that system. In that case, the fail–safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or else stops the engine.

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B30 B	51 (2GR–FE)	B54	51 (2GR–FE)
A4	56	B31	51 (2GR–FE)	B55	51 (2GR–FE)
A9 A	50 (2GR–FE)	B33	51 (2GR–FE)	B56	51 (2GR–FE)
A19	50 (2GR–FE)	B34	51 (2GR–FE)	B57	51 (2GR–FE)
A20	50 (2GR–FE)	B35	51 (2GR–FE)	B58	51 (2GR–FE)
A30	50 (2GR–FE)	B36	51 (2GR–FE)	B59	51 (2GR–FE)
A31	50 (2GR–FE)	B37	51 (2GR–FE)	B60	51 (2GR–FE)
A32	50 (2GR–FE)	B39	51 (2GR–FE)	E3	54
A35	56	B40	51 (2GR–FE)	E10	54
A36	56	B41	51 (2GR–FE)	E13	54
A38	56	B42	51 (2GR–FE)	E19	54
A39	50 (2GR–FE)	B43	51 (2GR–FE)	E35	55
B1	51 (2GR–FE)	B44	51 (2GR–FE)	E46	55
B3	51 (2GR–FE)	B45	51 (2GR–FE)	E68	55
B4 A	51 (2GR–FE)	B46	51 (2GR–FE)	E69	55
B19	51 (2GR–FE)	B48	51 (2GR–FE)	E70	55
B20 A	51 (2GR–FE)	B49	51 (2GR–FE)	R1	51 (2GR–FE)
B21 C	51 (2GR–FE)	B51	51 (2GR–FE)	R2	51 (2GR–FE)
B26	51 (2GR–FE)	B52	51 (2GR–FE)	S1	61
B29	51 (2GR–FE)	B53	51 (2GR–FE)	S3	61

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IF		
IH		
IJ		
IM	31	

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: **Connector Joining Wire Harness and Wire Harness**

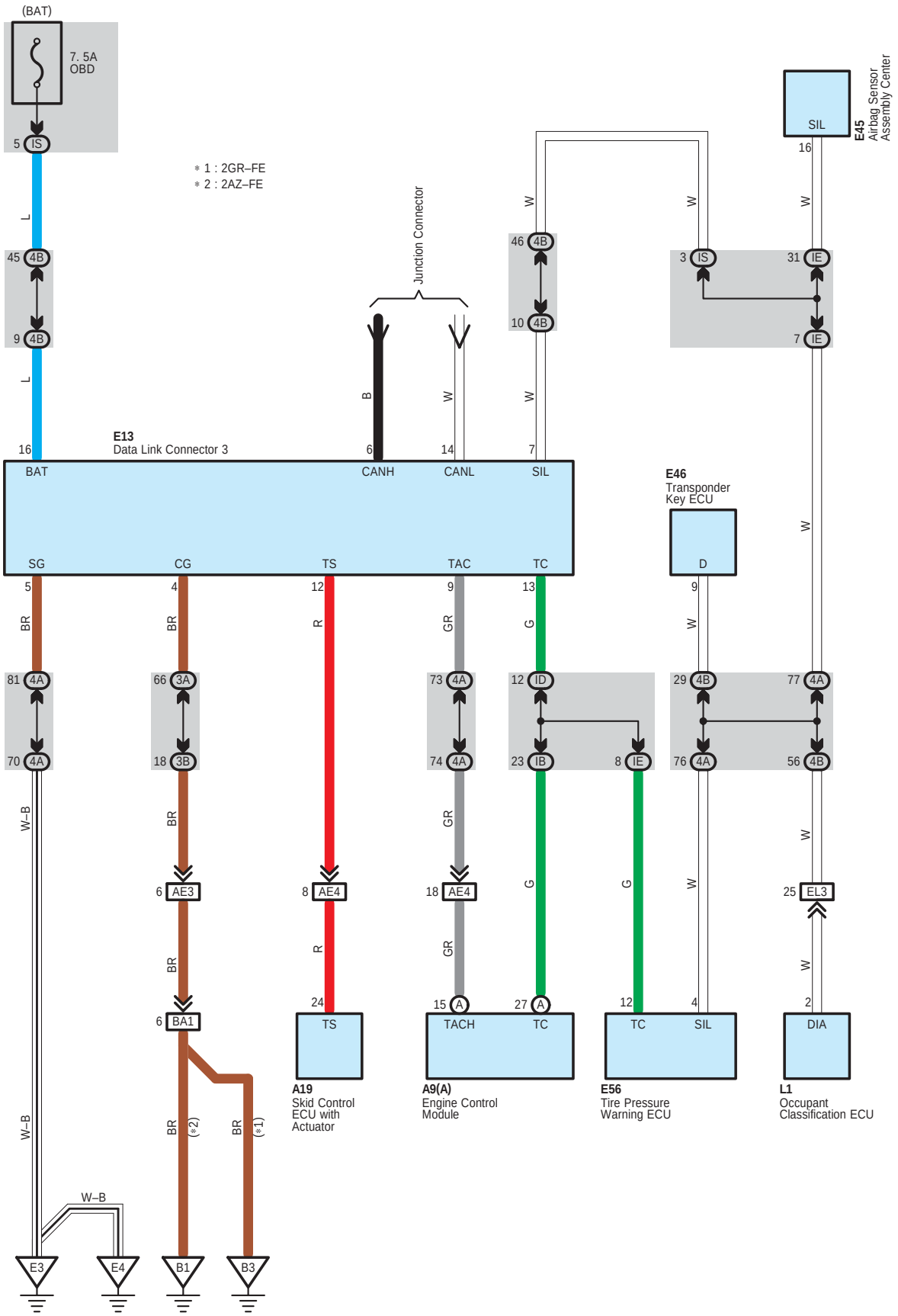
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		
AE3		
AE4		
AE6		
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA3		
BA4		
BR1	64 (2GR–FE)	Engine Wire and Sensor Wire (Left Side of the Cylinder Block)
SK1	66	Fuel Gauge Wire and Floor Wire (Under the Console Box)
SK2		

: **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
B3	64 (2GR–FE)	Left Side of the Cylinder Head
B4		
E1	66	Left Kick Panel
K1	67	Left Center Pillar

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Data Link Connector 3



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: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	50 (2GR–FE)	A19	52 (2AZ–FE)	E46	55
		52 (2AZ–FE)	E13	54	E56	55
A19		50 (2GR–FE)	E45	55	L1	62

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IS	31	

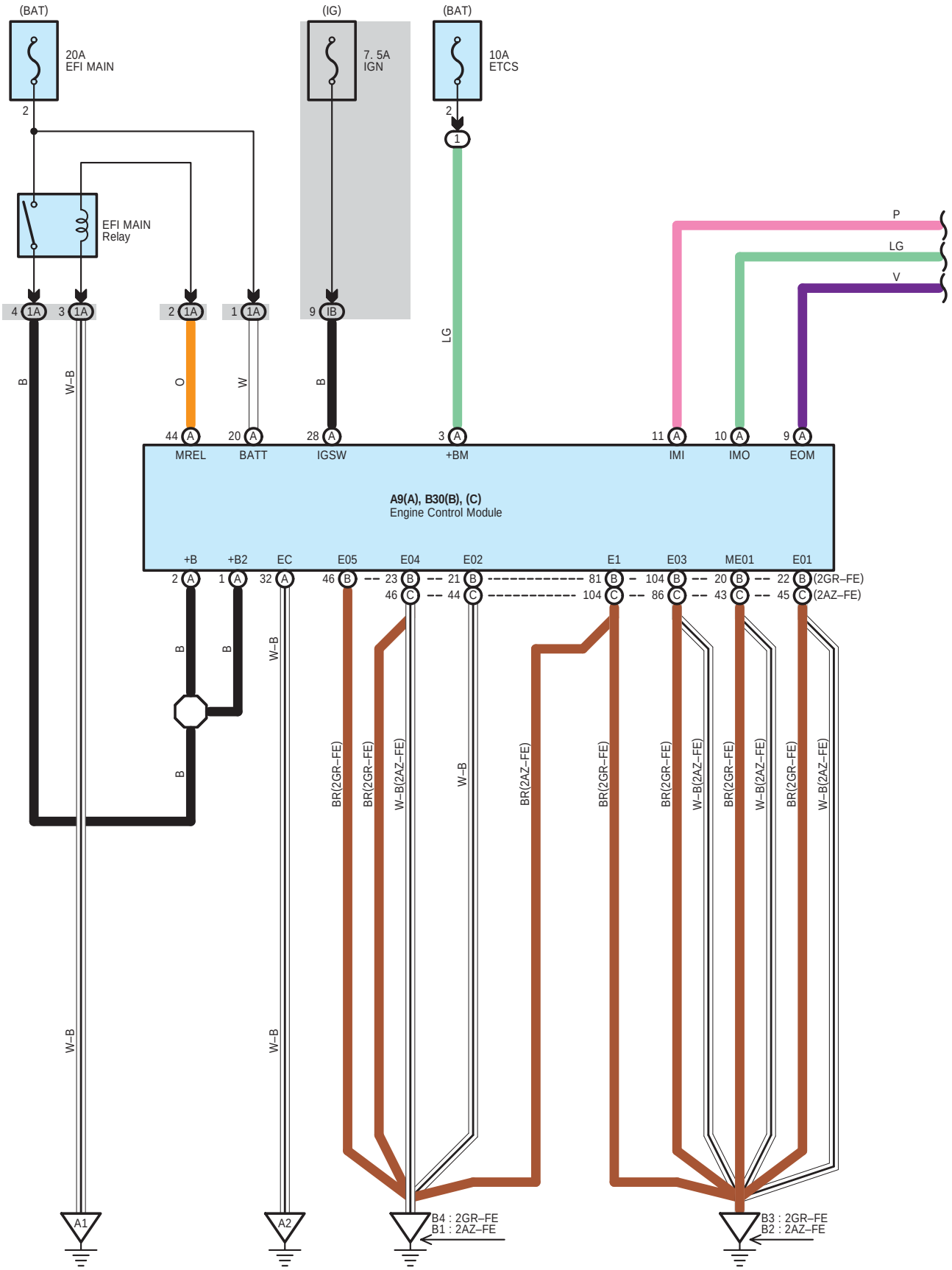
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE4		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

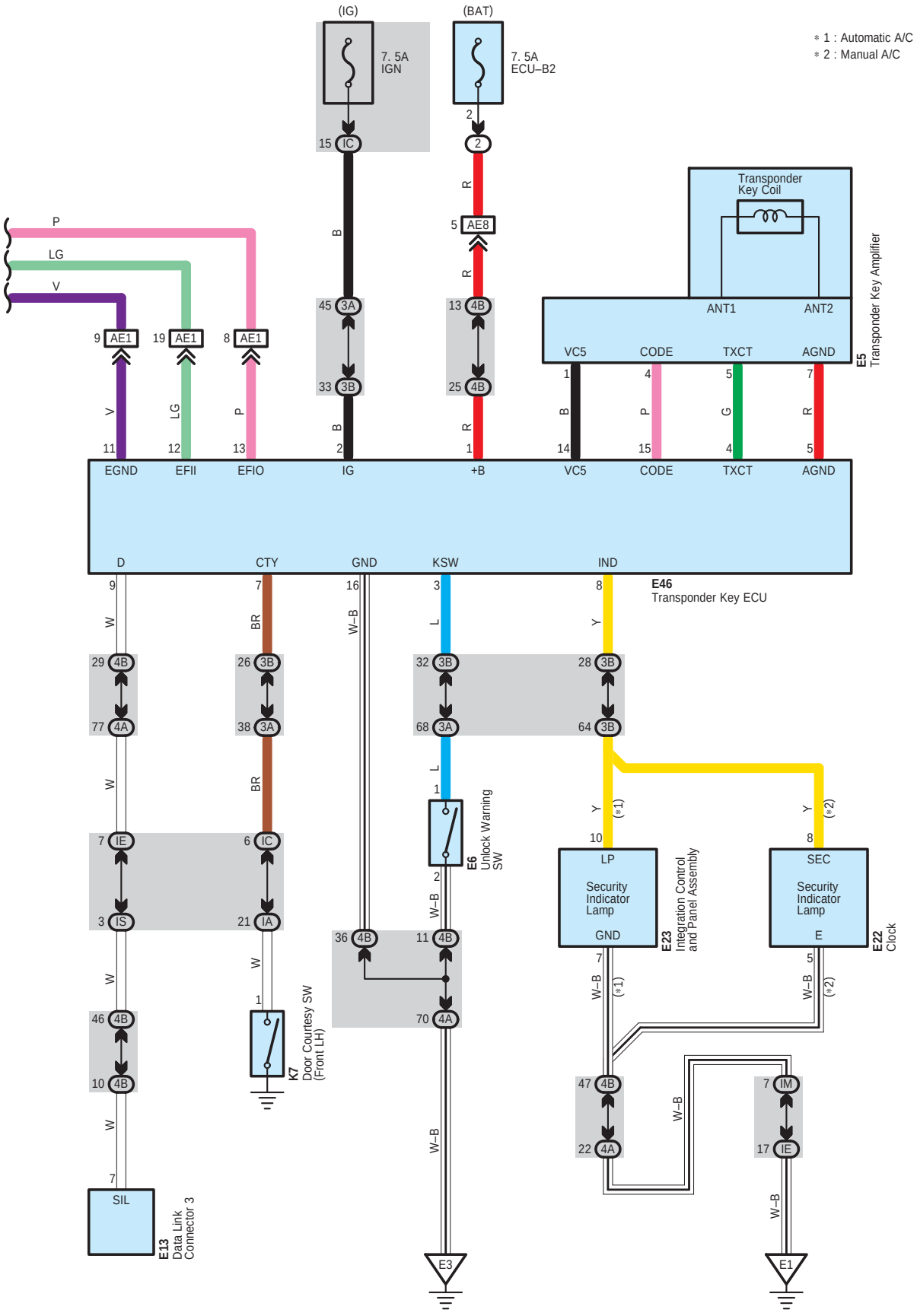
: Ground Points

Code	See Page	Ground Points Location
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B3	64 (2GR–FE)	
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel

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: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	50 (2GR–FE)	E5	54	E23	54
		52 (2AZ–FE)	E6	54	E46	55
B30	B	51 (2GR–FE)	E13	54	K7	59
	C	53 (2AZ–FE)	E22	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IM	31	
IS		

: Connector Joining Wire Harness and Wire Harness

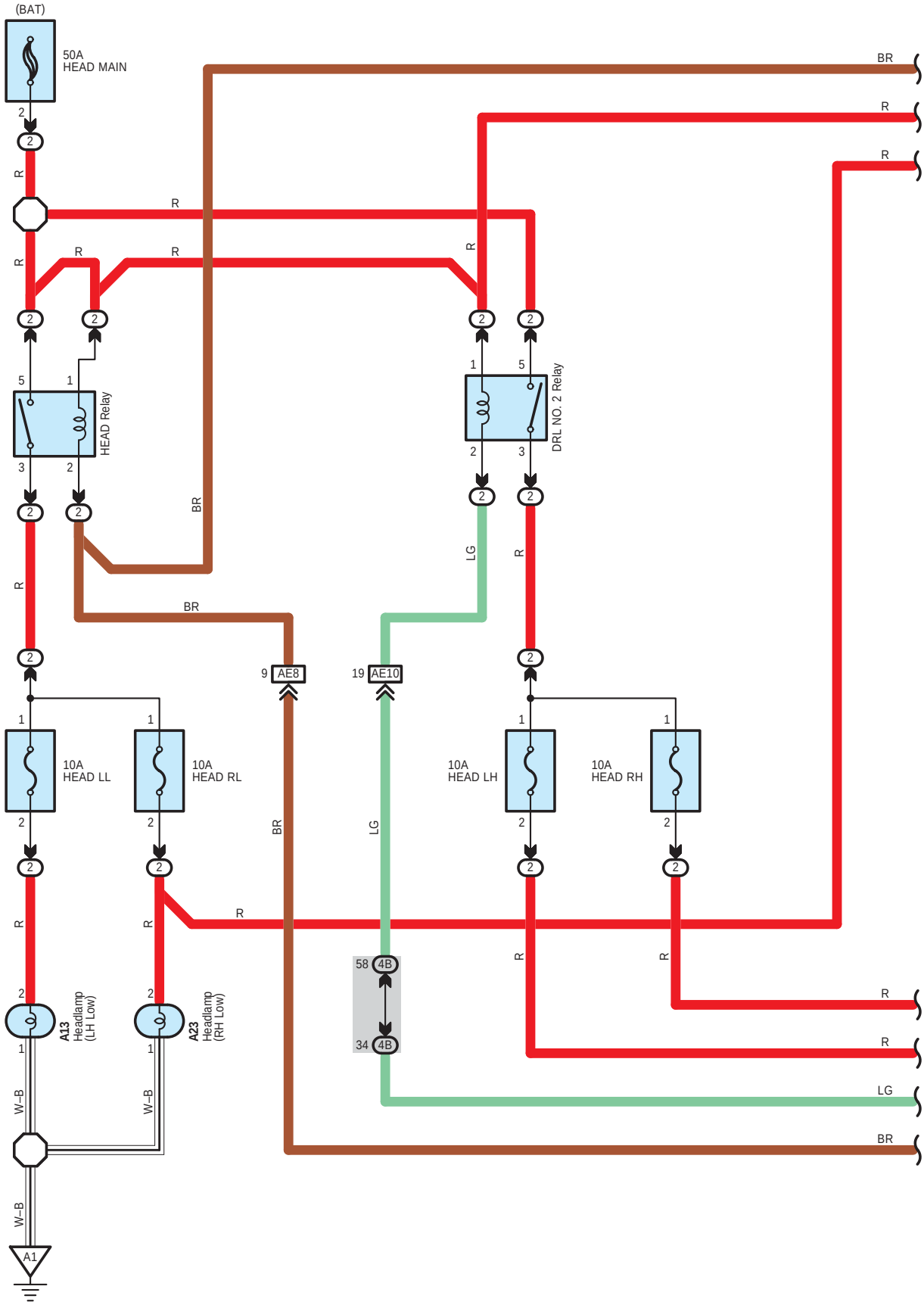
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

: Ground Points

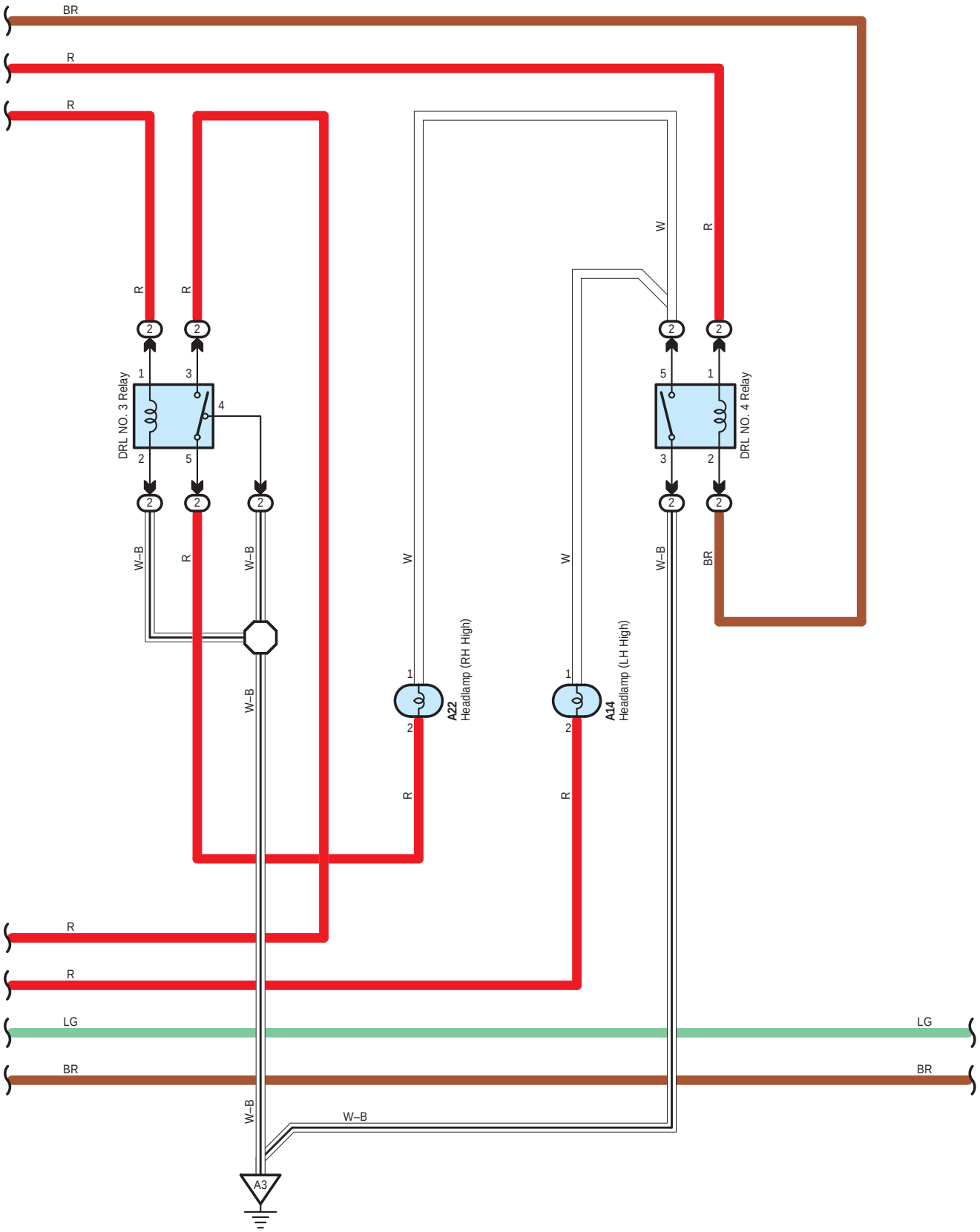
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
B3	64 (2GR–FE)	
B4		
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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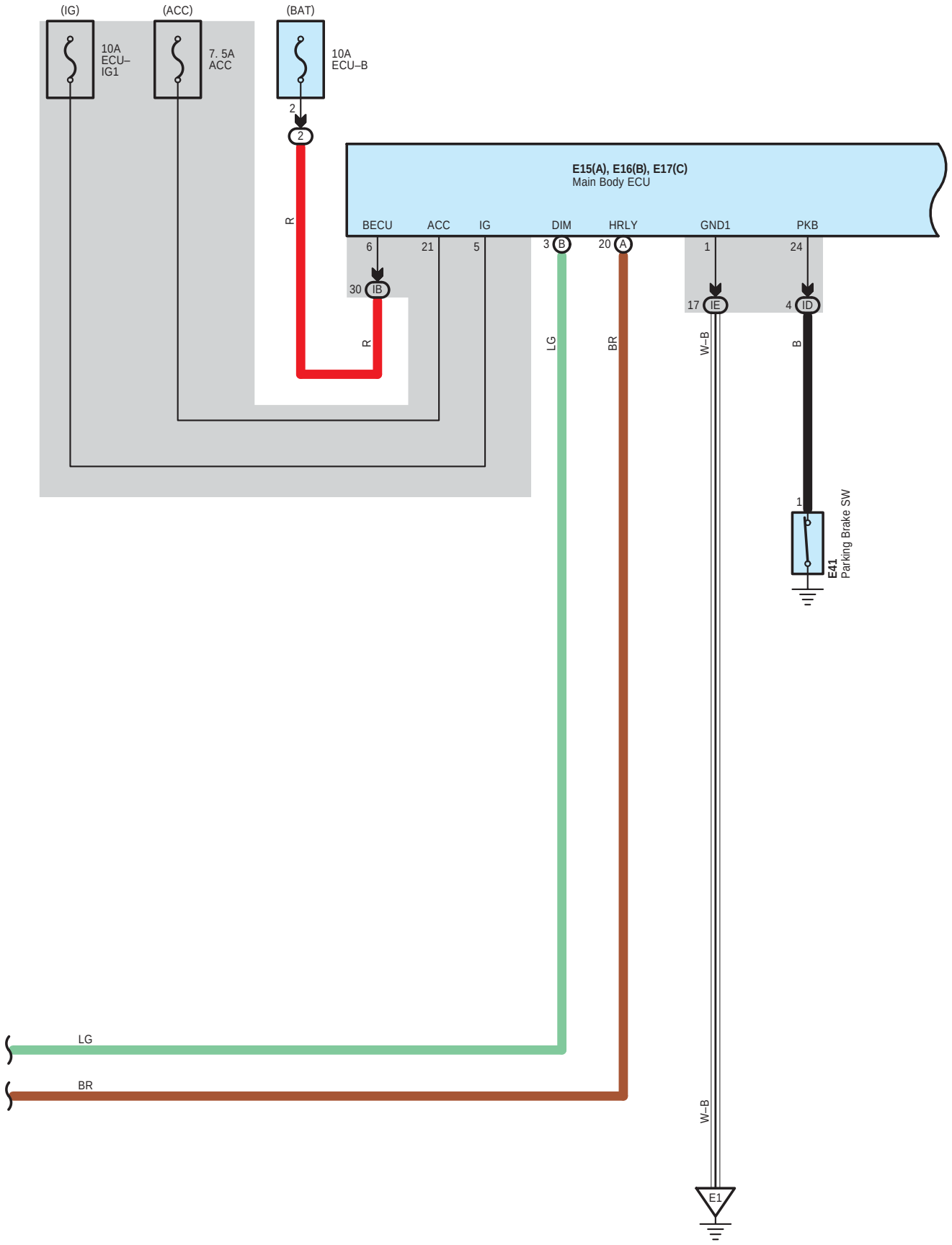
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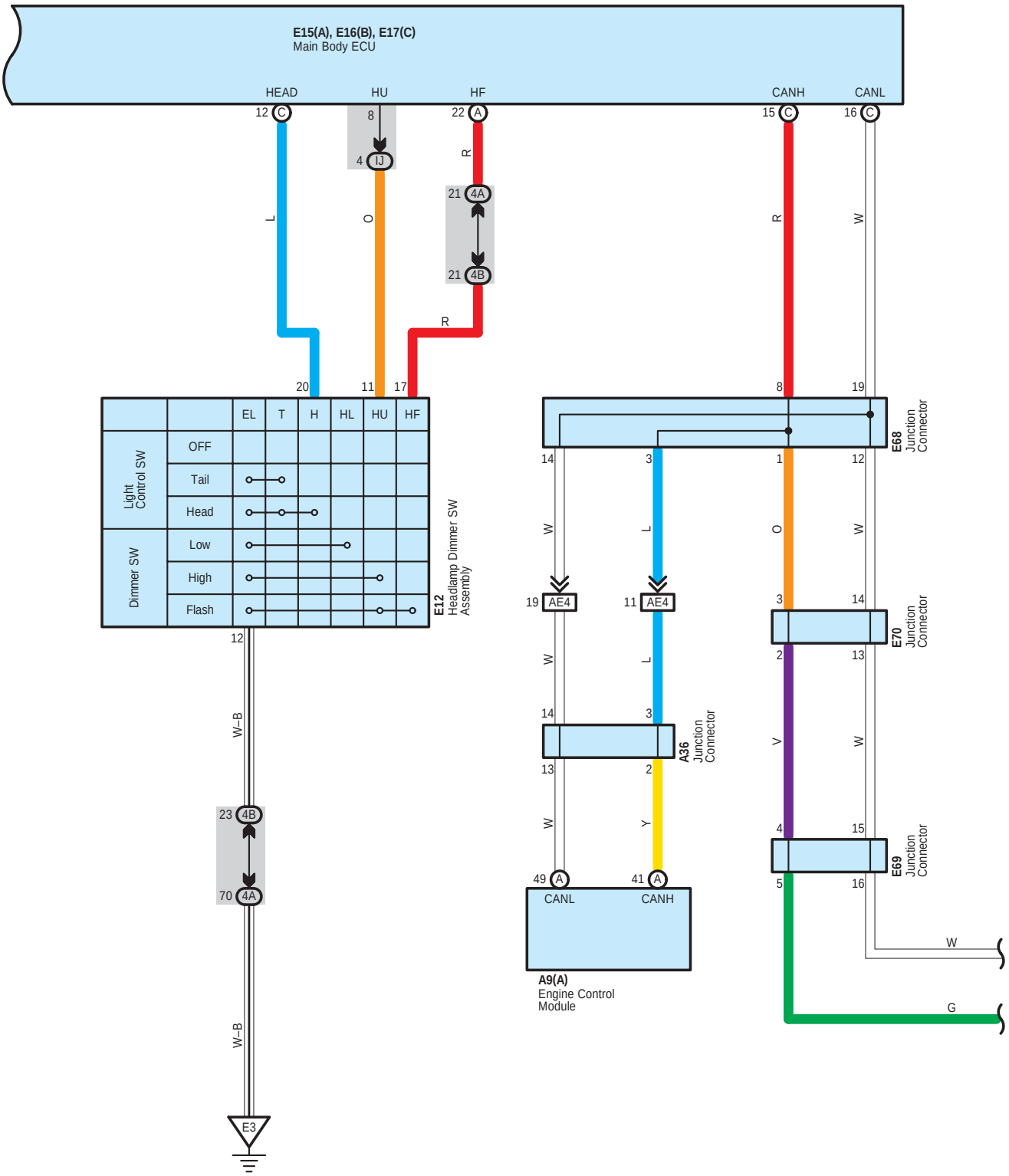
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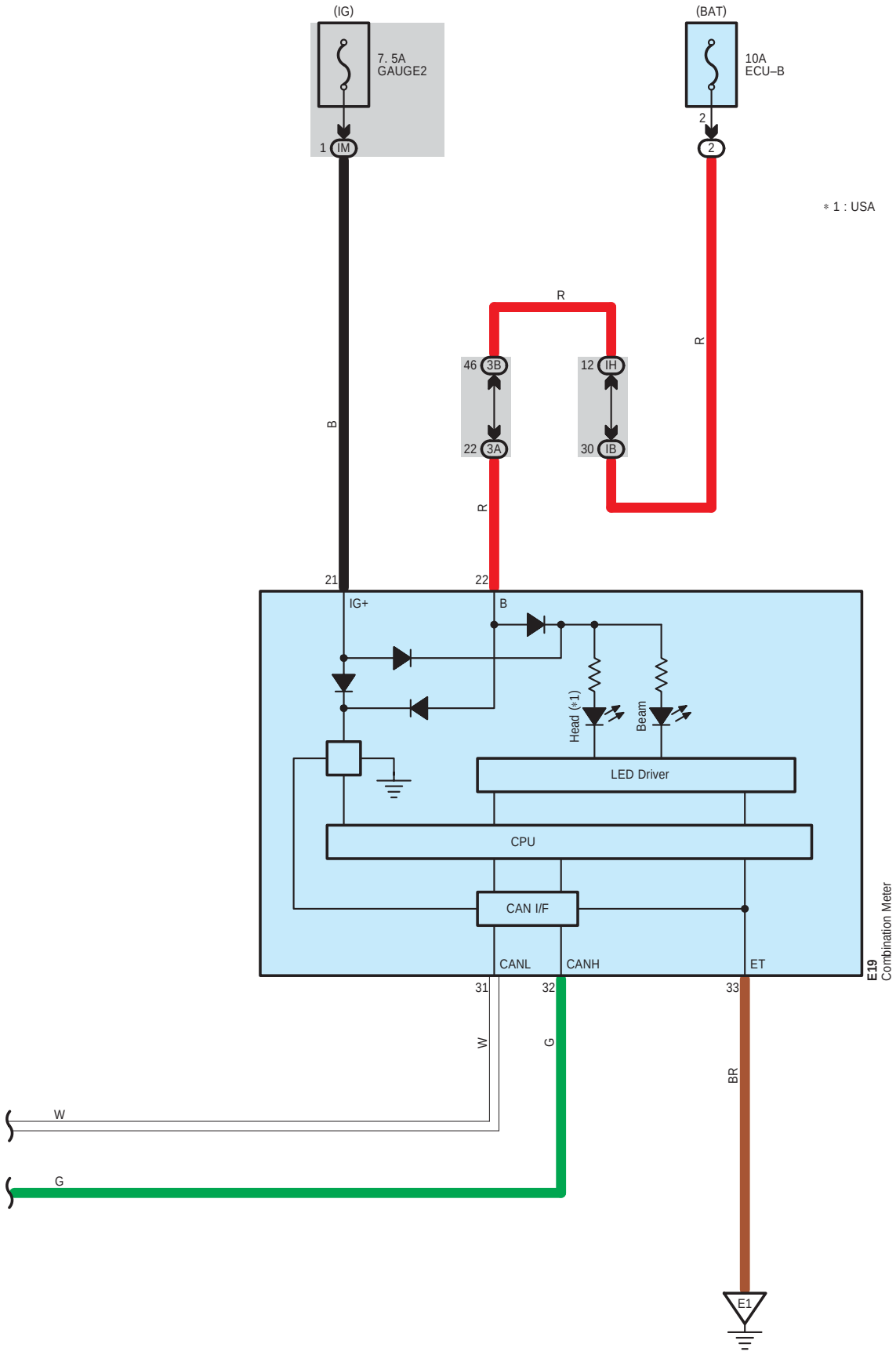
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	50 (2GR–FE)	A22	52 (2AZ–FE)	E17 C	54
	52 (2AZ–FE)	A23	50 (2GR–FE)	E19	54
A13	50 (2GR–FE)		52 (2AZ–FE)	E41	55
	52 (2AZ–FE)	A36	56	E68	55
A14	50 (2GR–FE)	E12	54	E69	55
	52 (2AZ–FE)	E15 A	54	E70	55
A22	50 (2GR–FE)	E16 B	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IH		
IJ		
IM	31	

: Connector Joining Wire Harness and Wire Harness

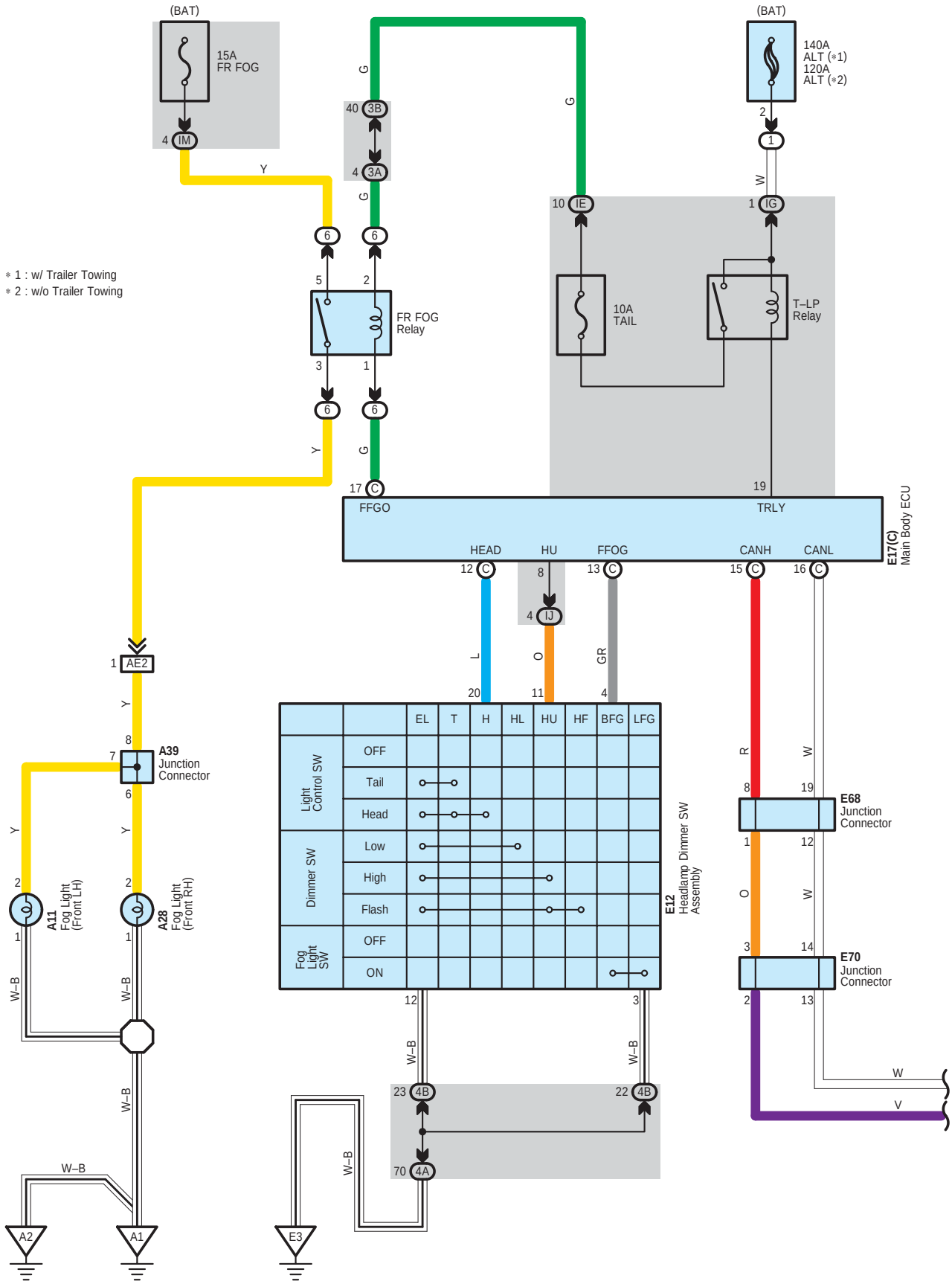
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
AE10		

: Ground Points

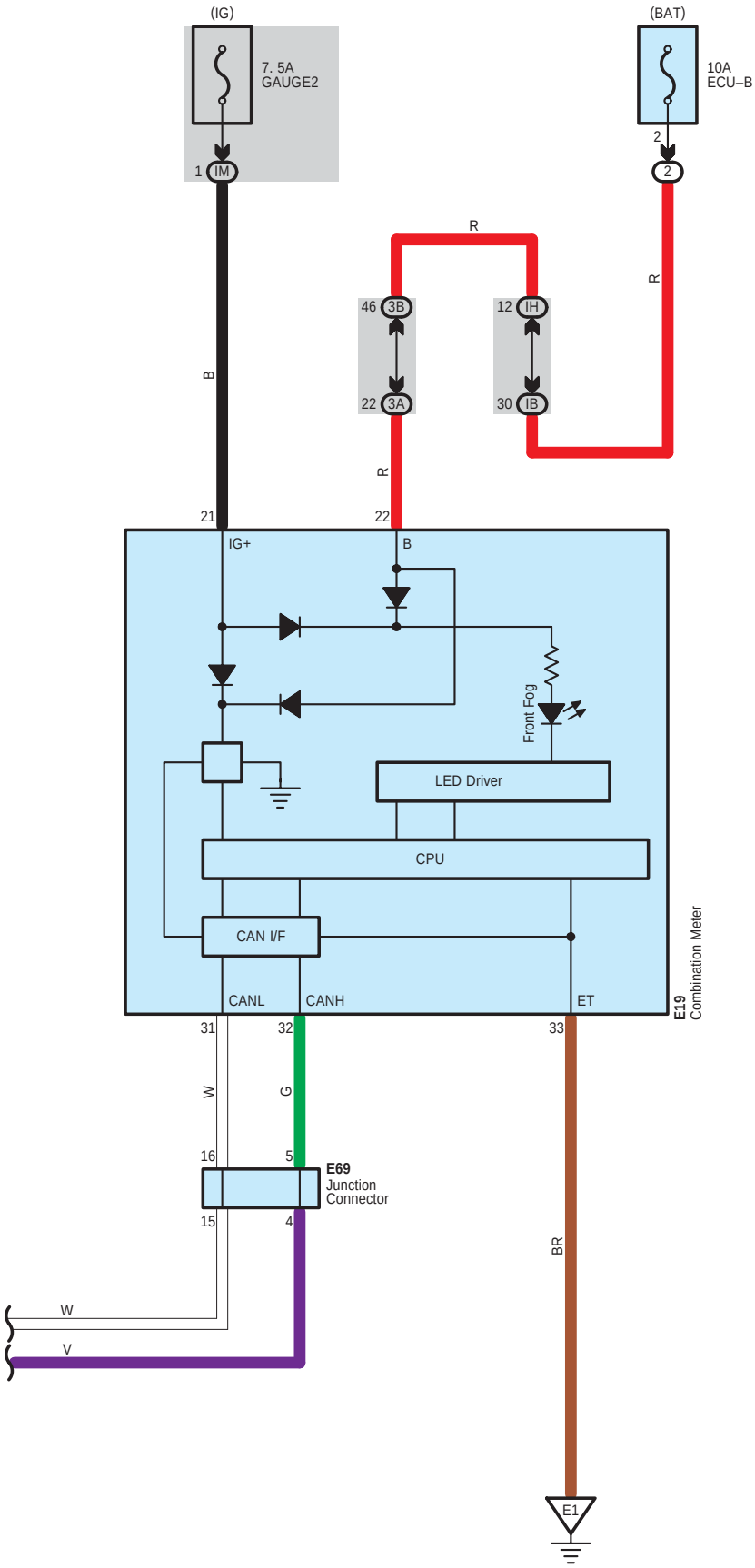
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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Front Fog Light



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Front Fog Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	50 (2GR–FE)	A39	50 (2GR–FE)	E19	54
	52 (2AZ–FE)		52 (2AZ–FE)	E68	55
A28	50 (2GR–FE)	E12	54	E69	55
	52 (2AZ–FE)	E17 C	54	E70	55

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	
6	28	R/B No.6 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IJ		
IM	31	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)

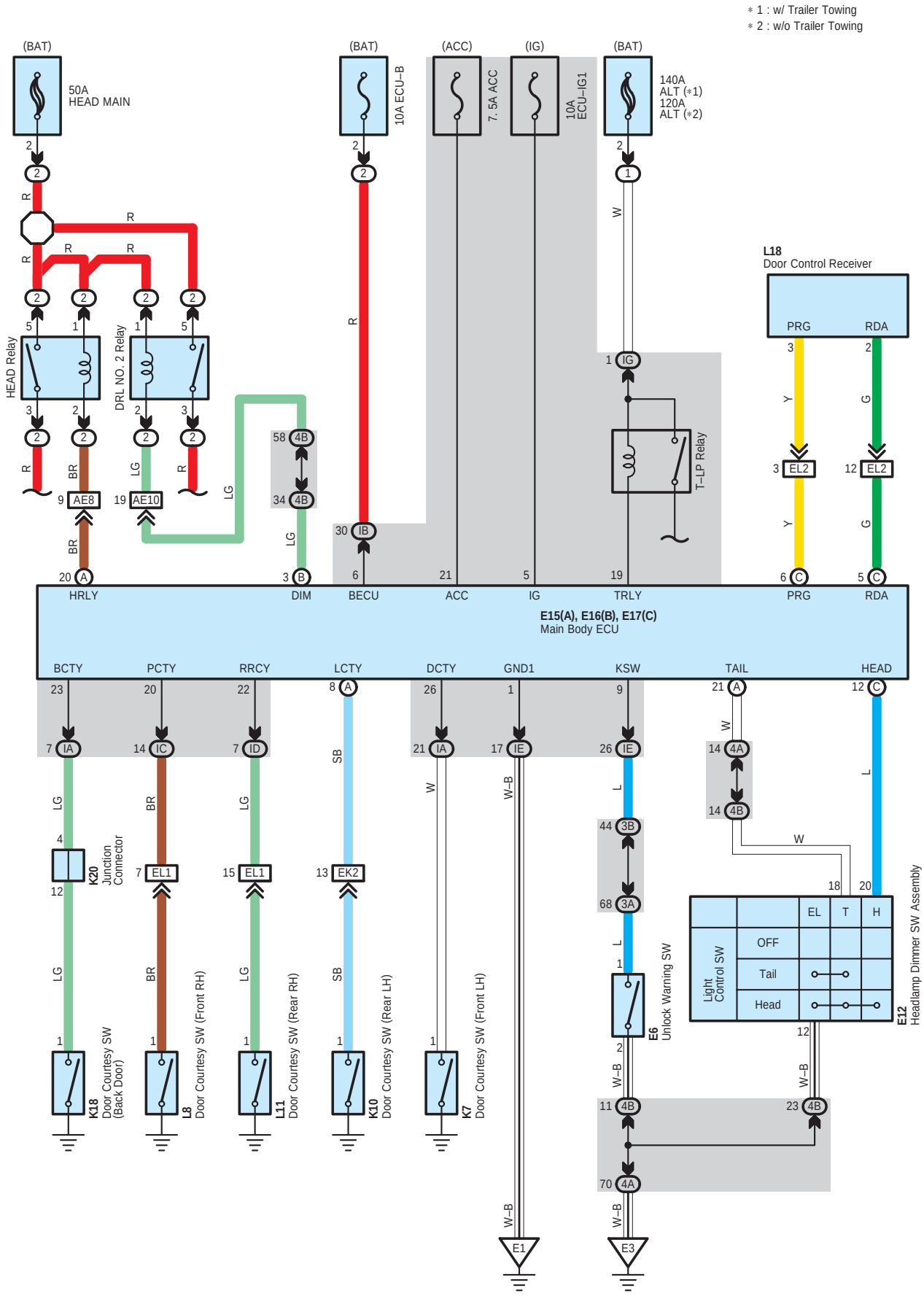
: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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Light Auto Turn Off System



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E6	54	E17 C	54	K20	59
E12	54	K7	59	L8	60
E15 A	54	K10	59	L11	60
E16 B	54	K18	59	L18	60

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IE		
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

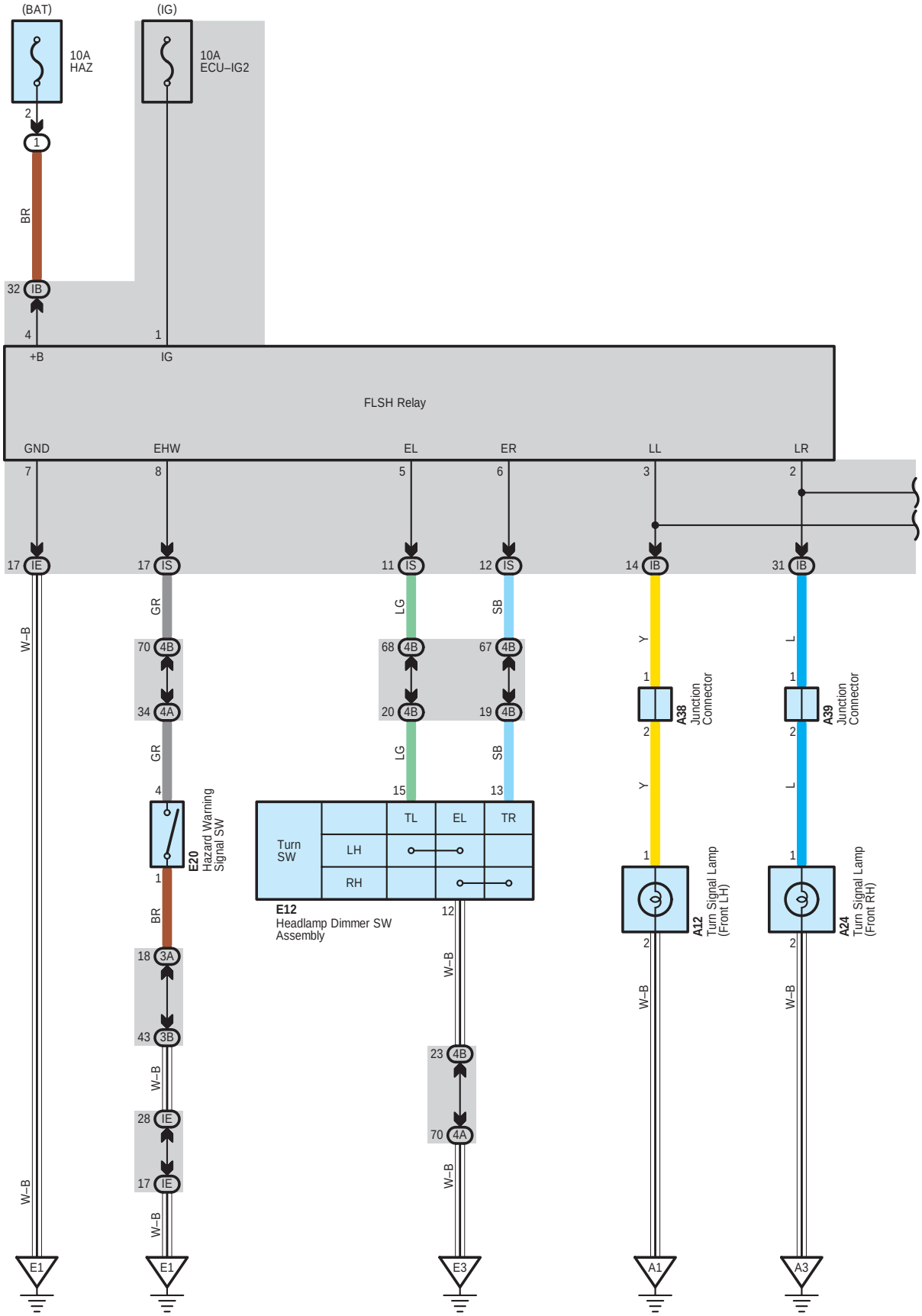
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
AE10		
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EL2		

: Ground Points

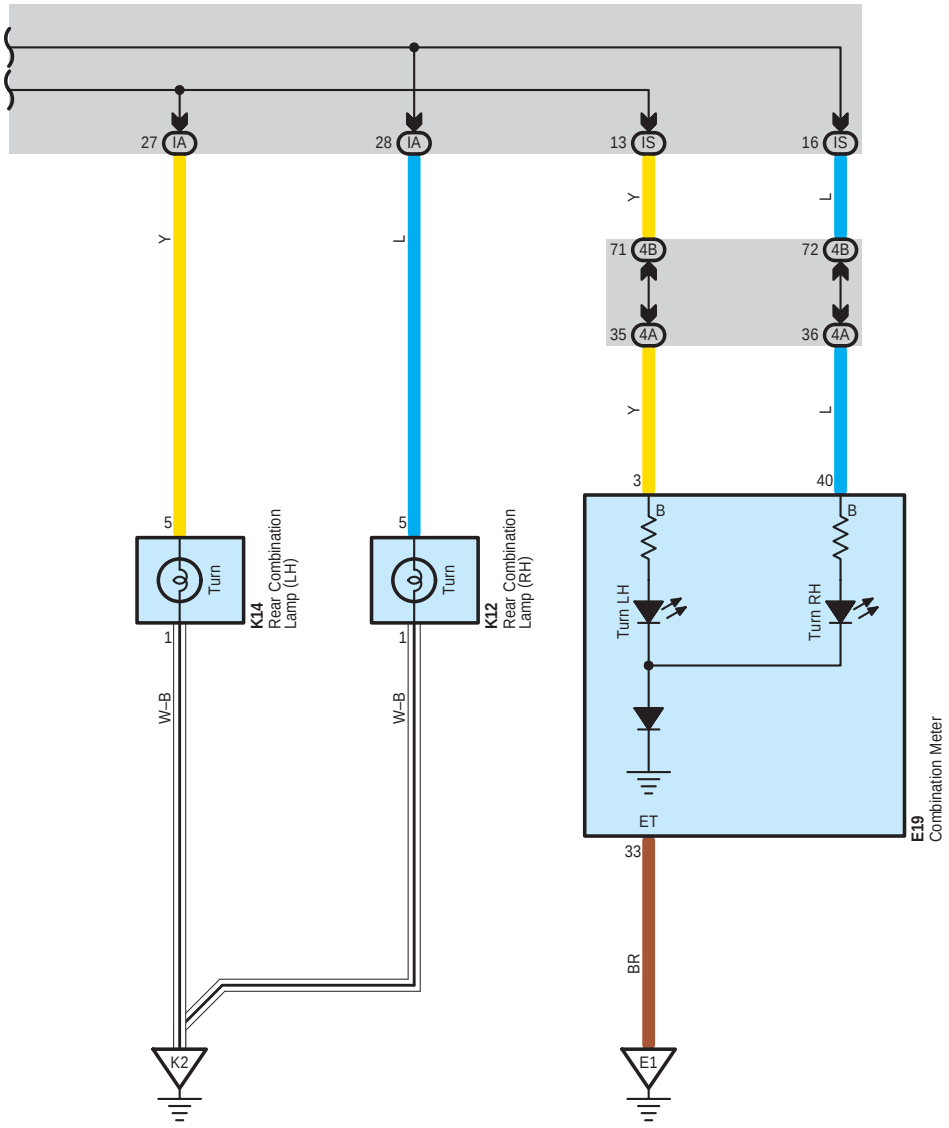
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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Turn Signal and Hazard Warning Light



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Turn Signal and Hazard Warning Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	50 (2GR–FE)	A38	56	E19	54
	52 (2AZ–FE)	A39	50 (2GR–FE)	E20	54
A24	50 (2GR–FE)		52 (2AZ–FE)	K12	59
	52 (2AZ–FE)	E12	54	K14	59

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	

: Junction Block and Wire Harness Connector

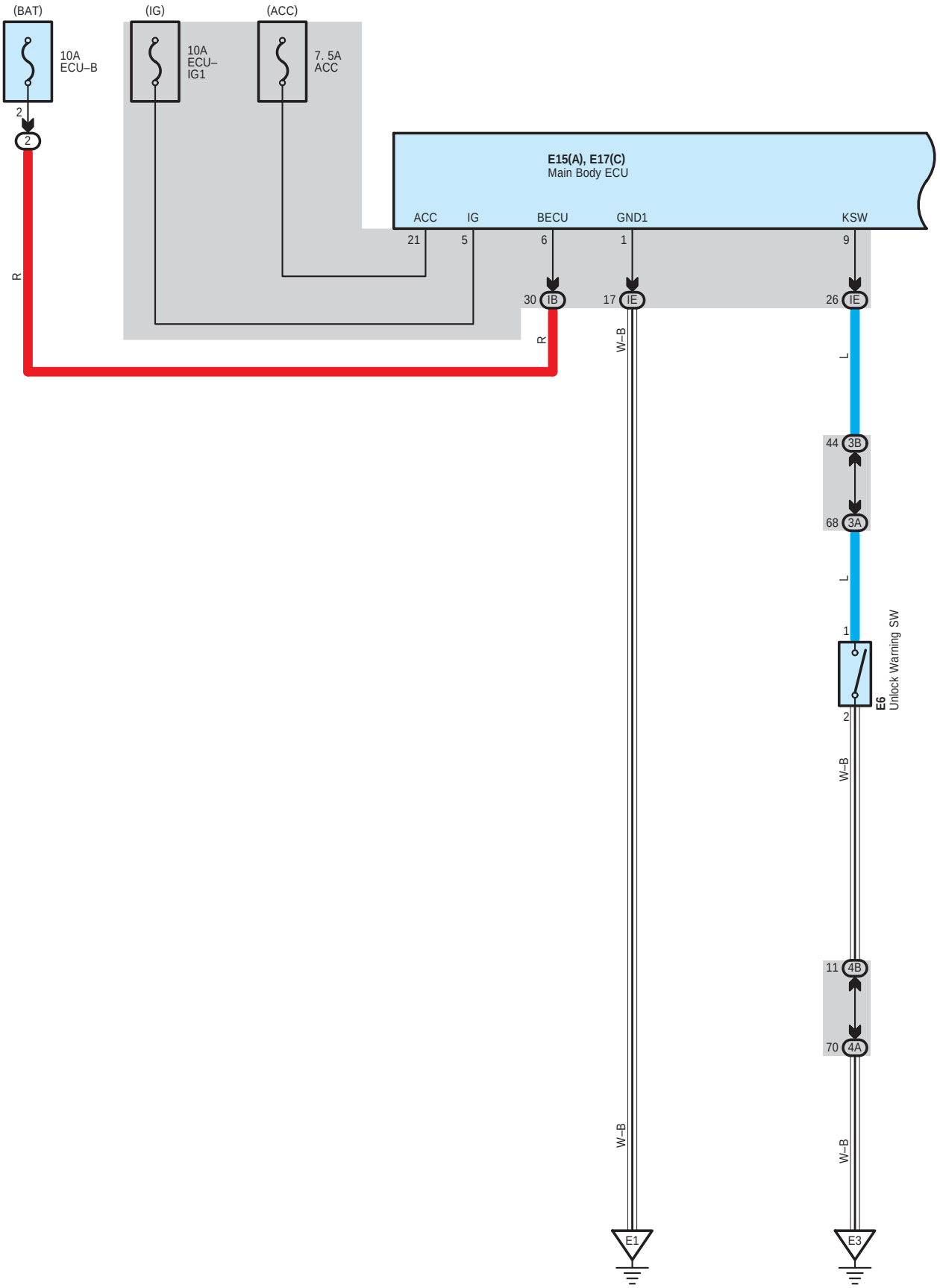
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IS	31	

: Ground Points

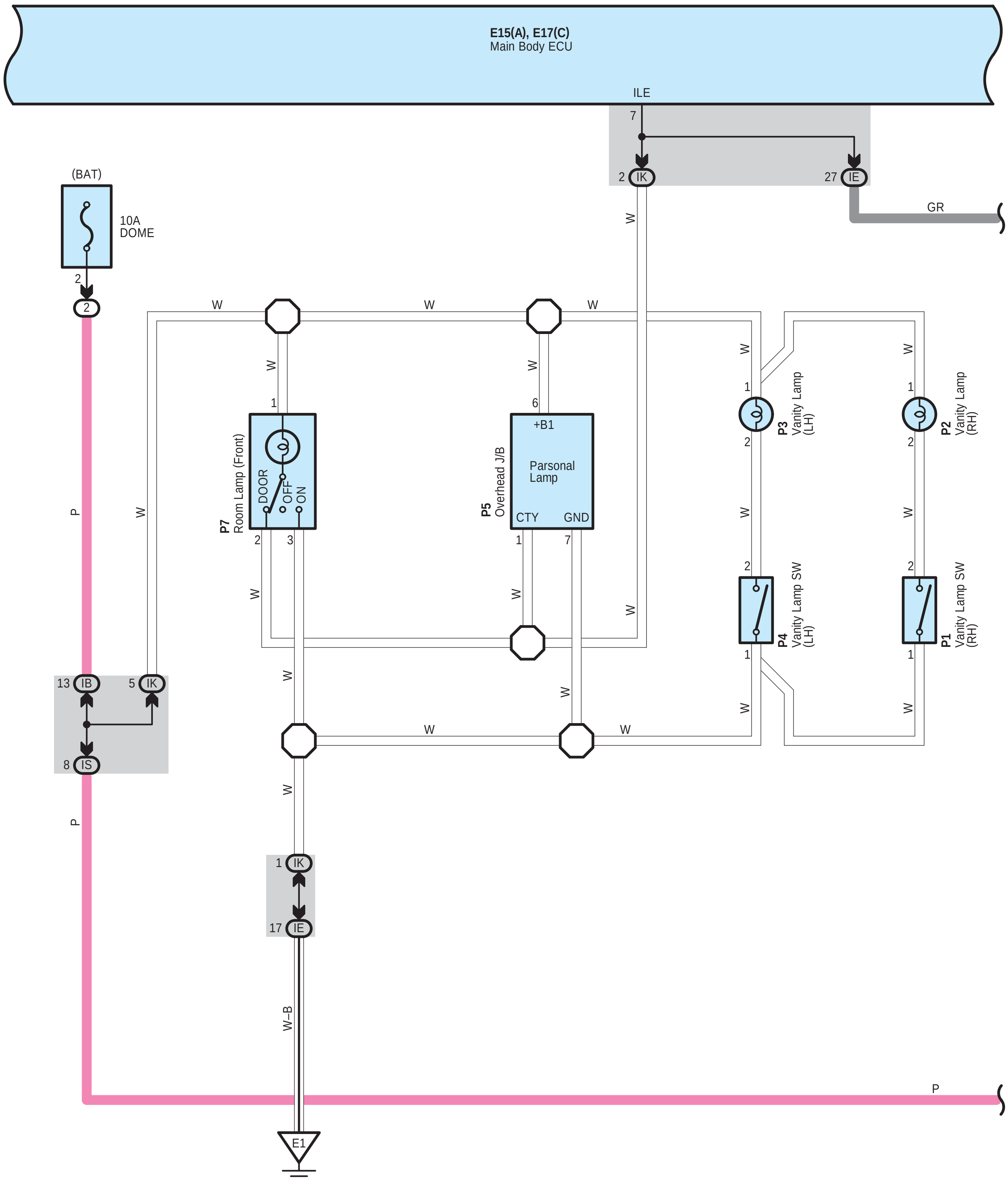
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
K2	67	Left Quarter Panel

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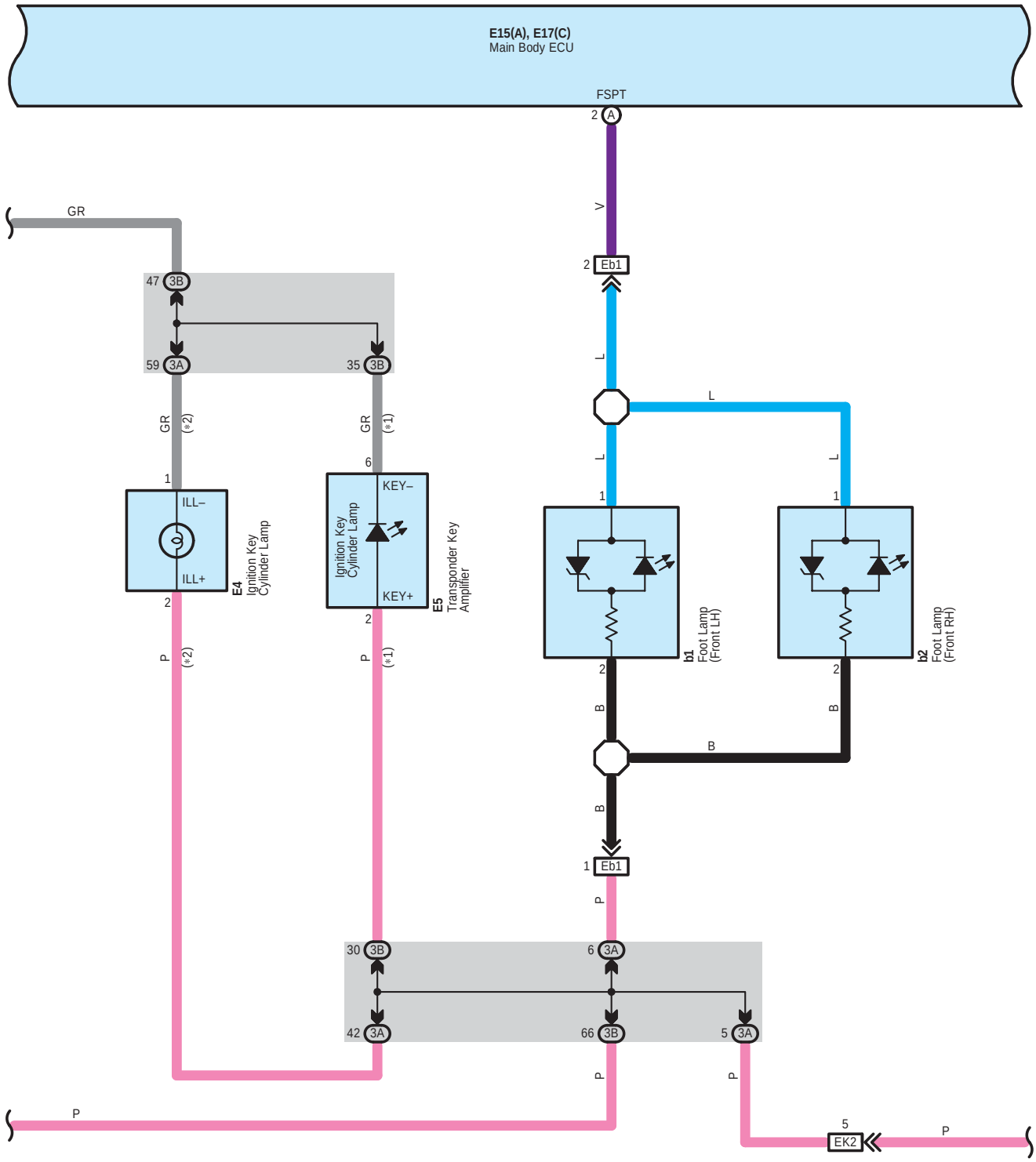


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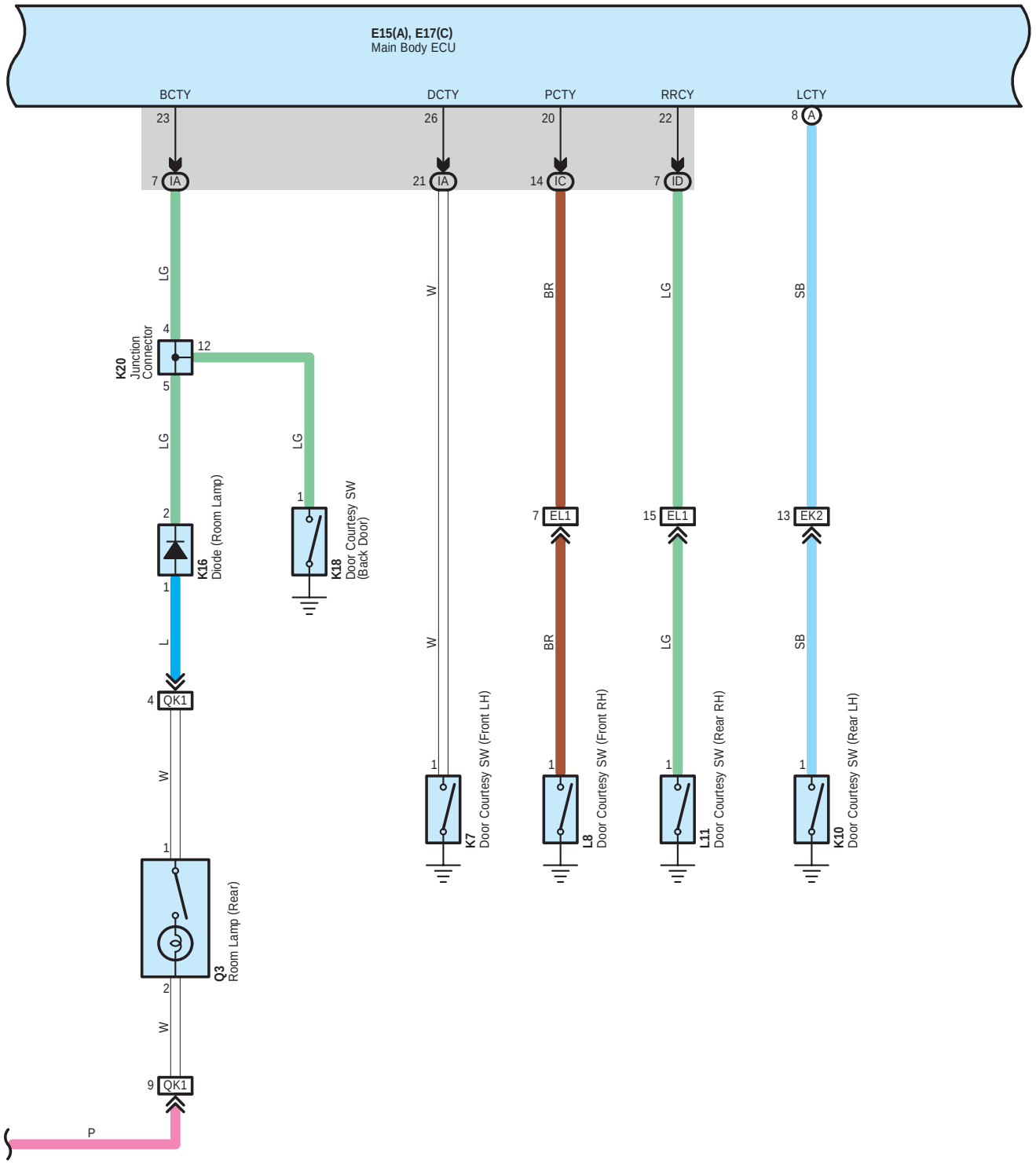


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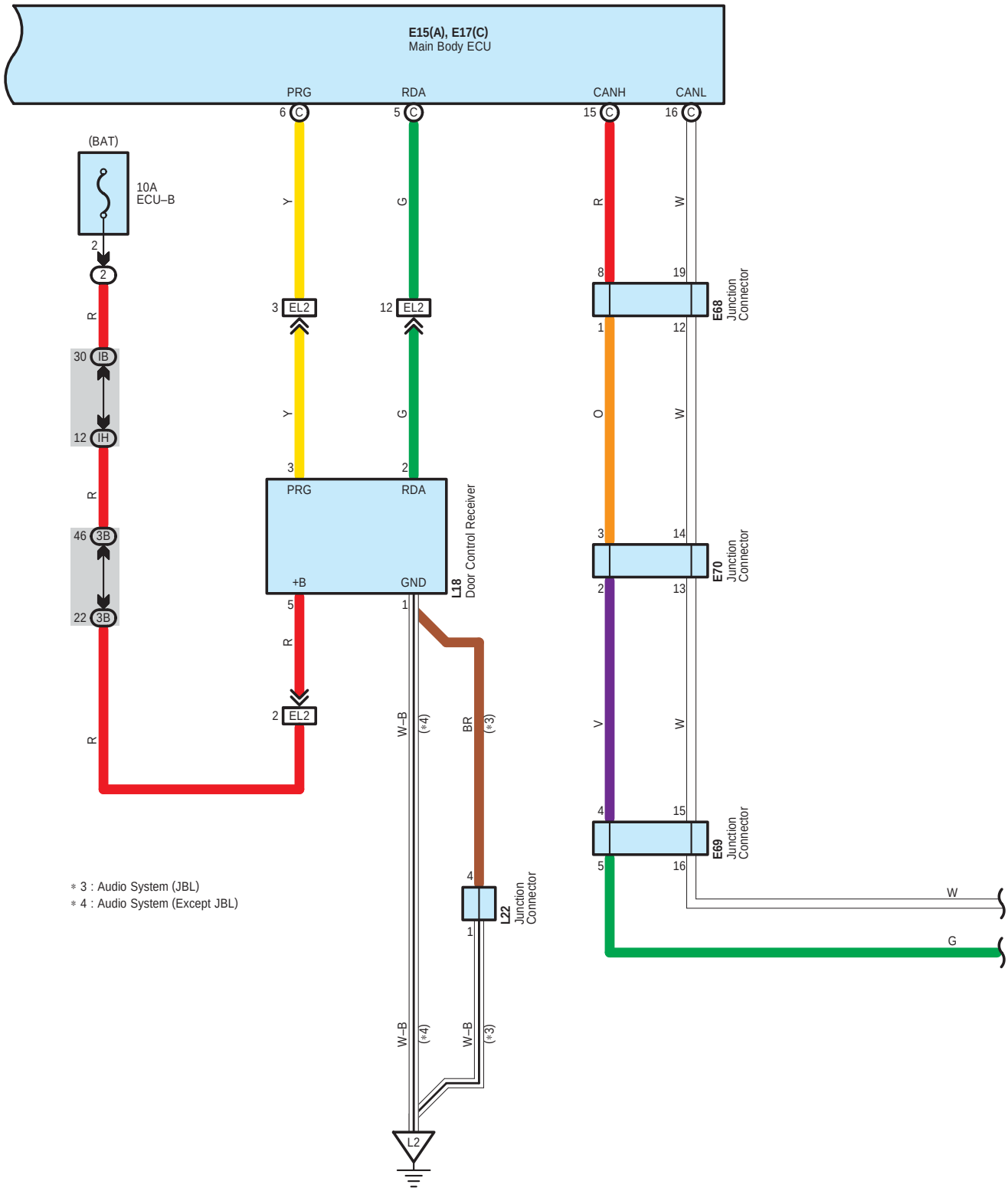
* 1 : w/ Engine Immobiliser System
* 2 : w/o Engine Immobiliser System



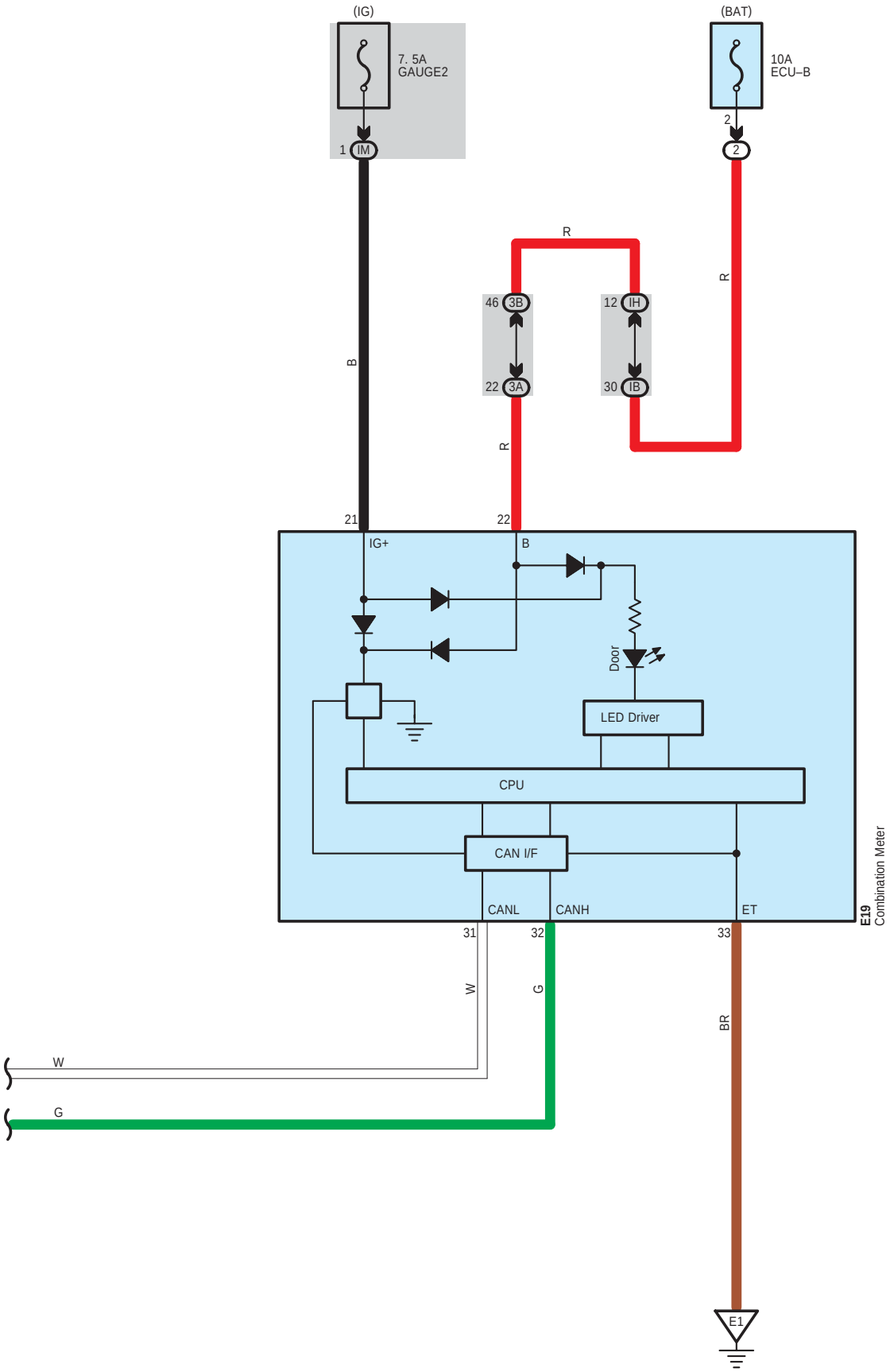
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Interior Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E4	54	K7	59	P1	61
E5	54	K10	59	P2	61
E6	54	K16	59	P3	61
E15 A	54	K18	59	P4	61
E17 C	54	K20	59	P5	61
E19	54	L8	60	P7	61
E68	55	L11	60	Q3	61
E69	55	L18	60	b1	57
E70	55	L22	60	b2	57

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IE		
IH		
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IS		

: Connector Joining Wire Harness and Wire Harness

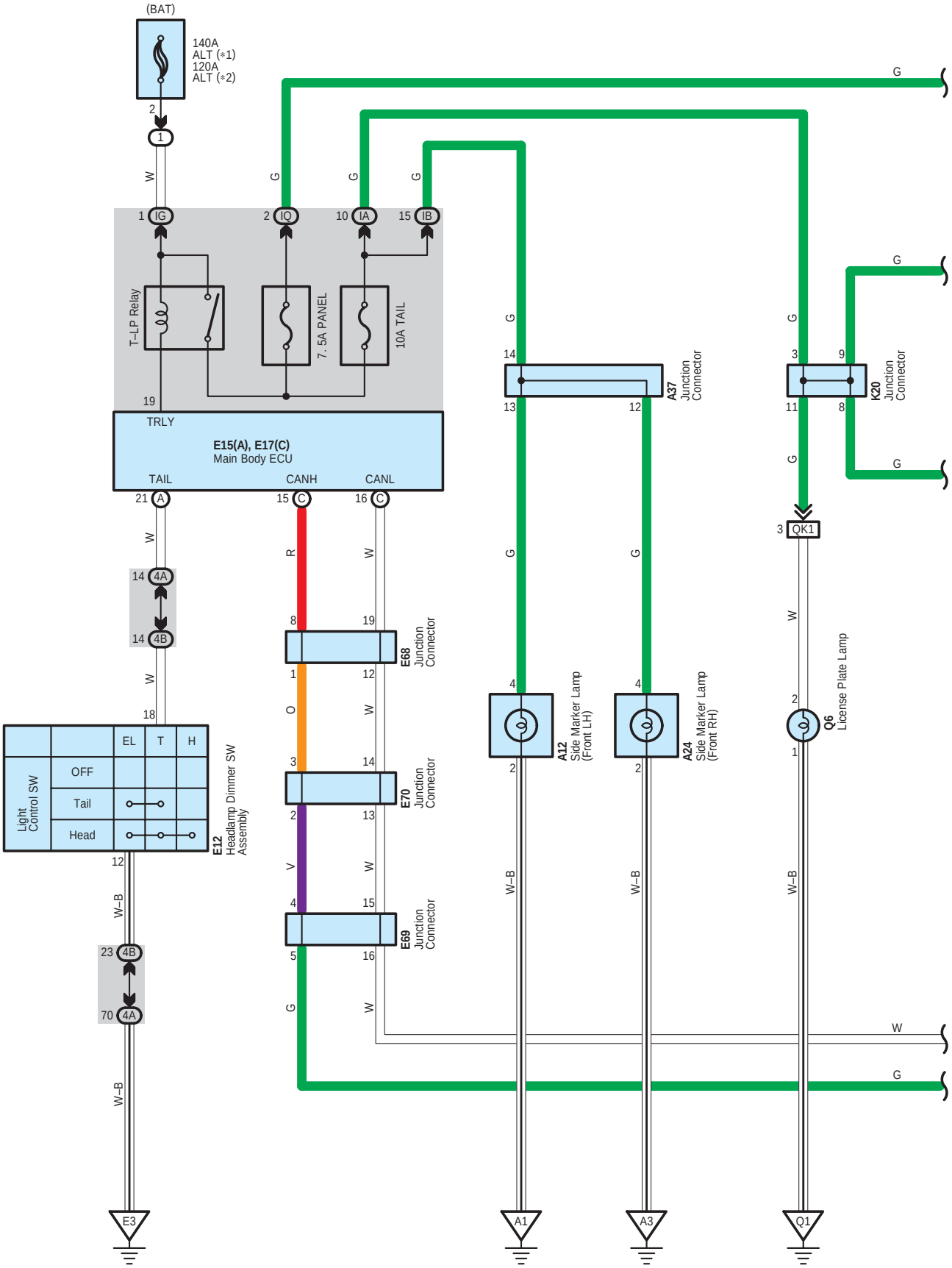
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EL2		
Eb1	66	Instrument Panel Wire and Illumination Wire (Instrument Panel Brace RH)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)

: Ground Points

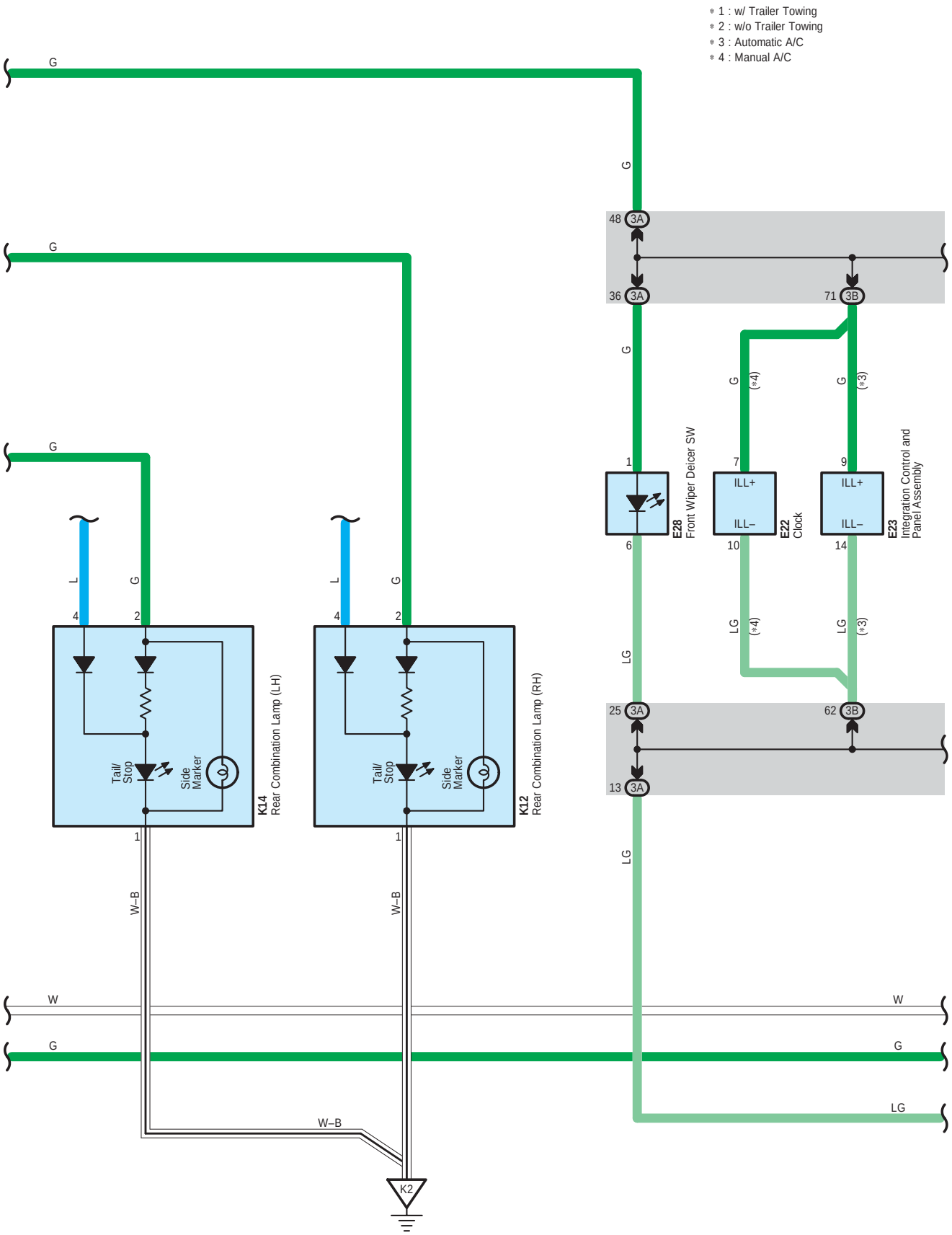
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
L2	67	Right Quarter Panel

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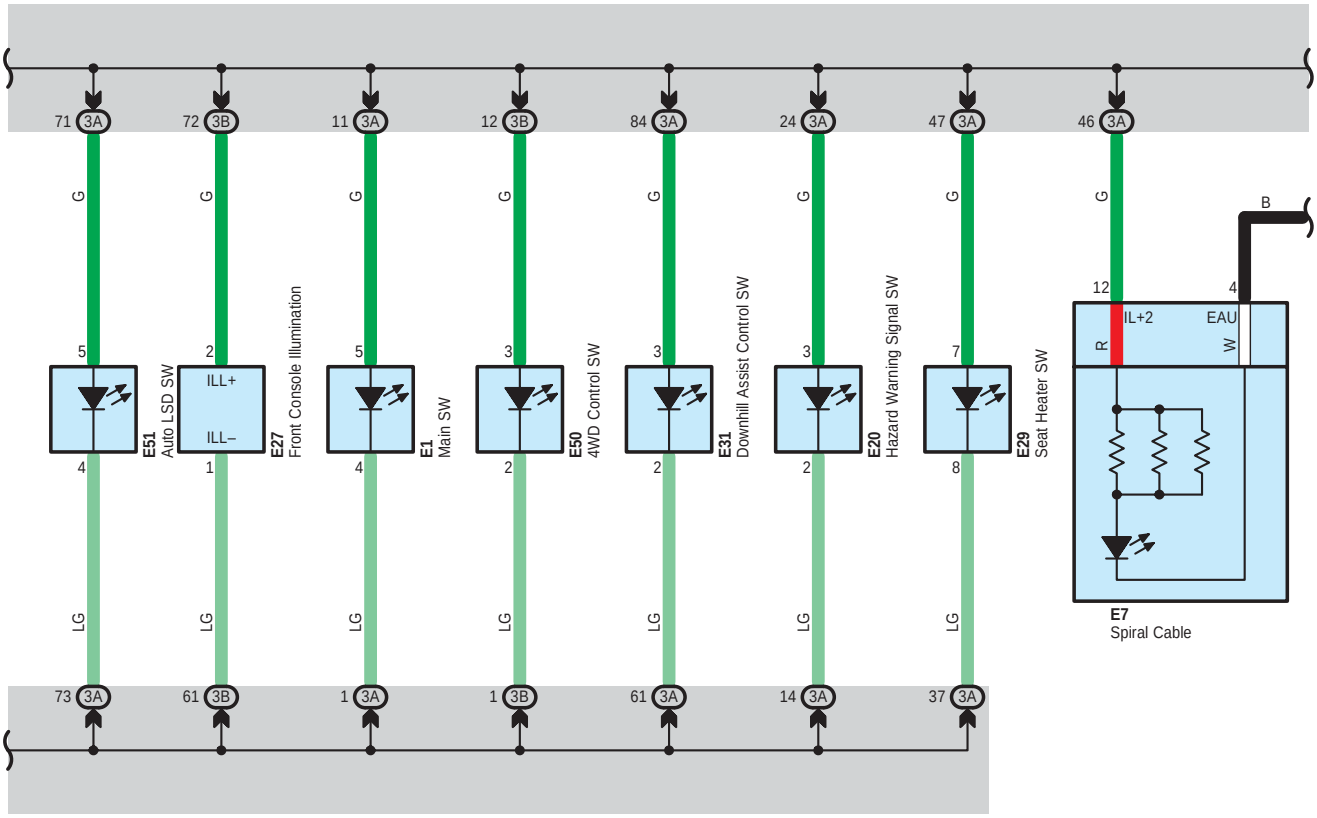
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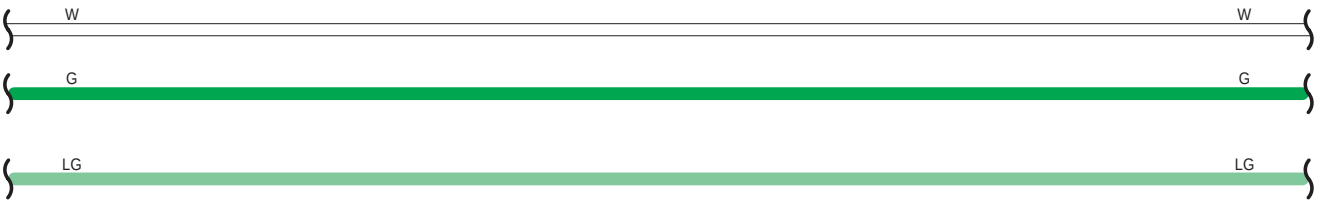


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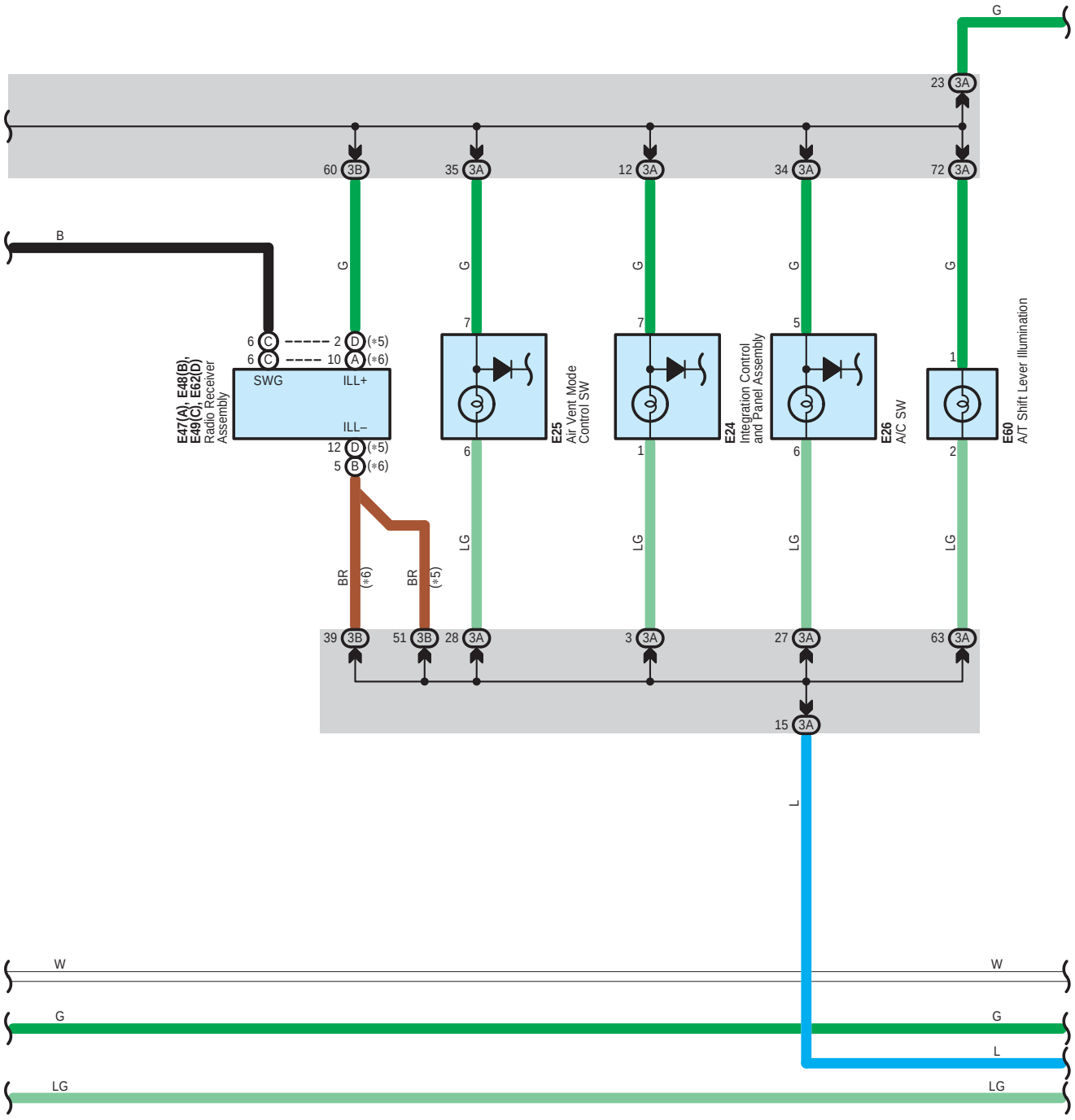
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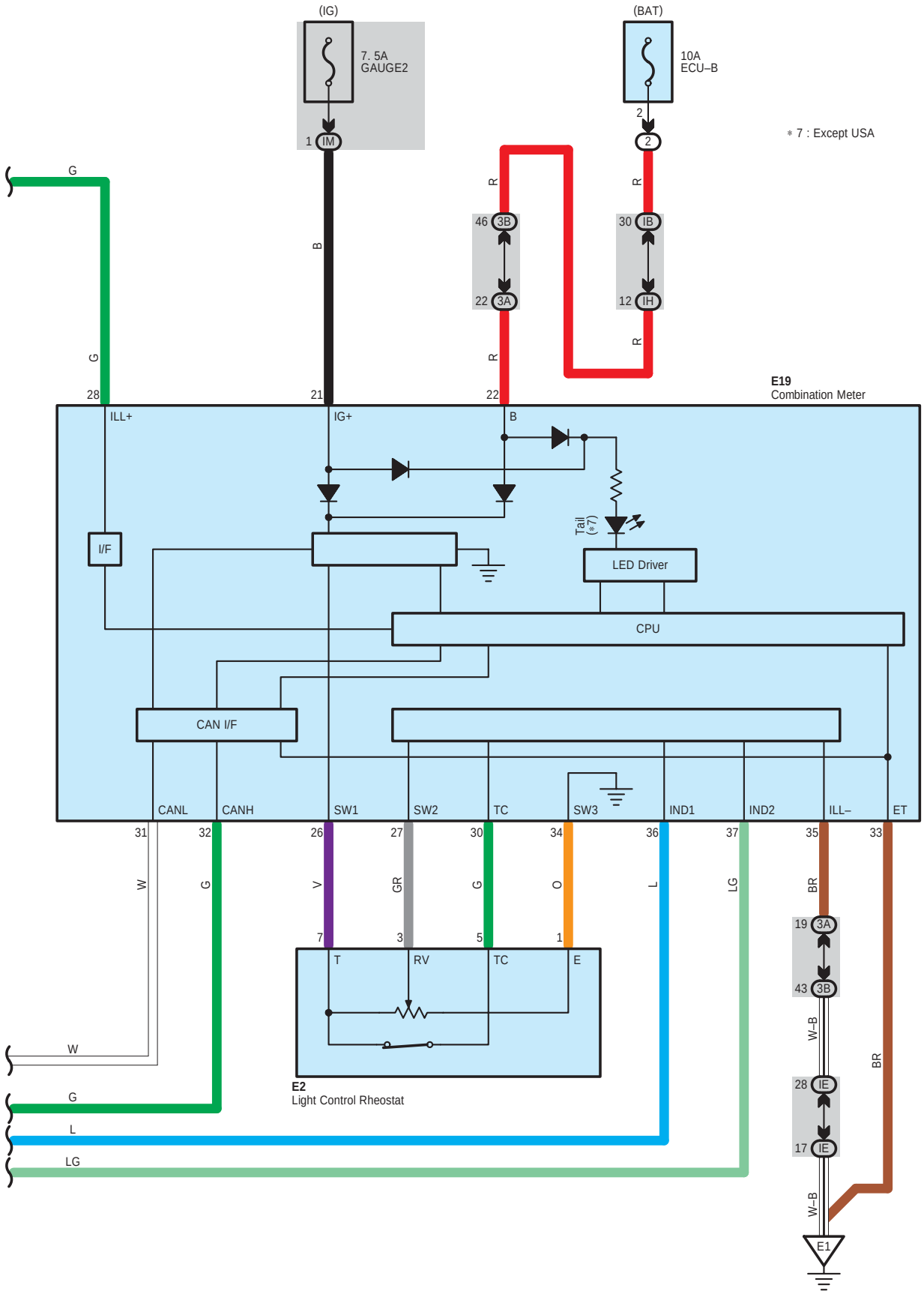


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∗ 5 : Audio System (JBL)
∗ 6 : Audio System (Except JBL)



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	50 (2GR–FE)	E20	54	E49 C	55
	52 (2AZ–FE)	E22	54	E50	55
A24	50 (2GR–FE)	E23	54	E51	55
	52 (2AZ–FE)	E24	54	E60	55
A37	56	E25	54	E62 D	55
E1	54	E26	54	E68	55
E2	54	E27	54	E69	55
E7	54	E28	54	E70	55
E12	54	E29	54	K12	59
E15 A	54	E31	54	K14	59
E17 C	54	E47 A	55	K20	59
E19	54	E48 B	55	Q6	61

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IQ		

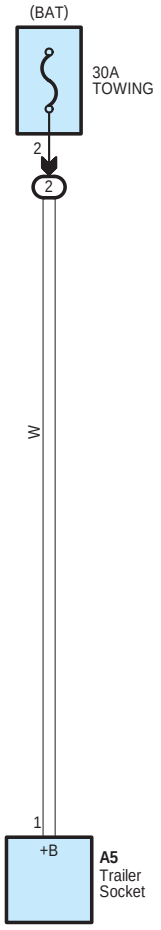
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
K2	67	Left Quarter Panel
Q1	67	Left Side of the Back Door

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○ : **Parts Location**

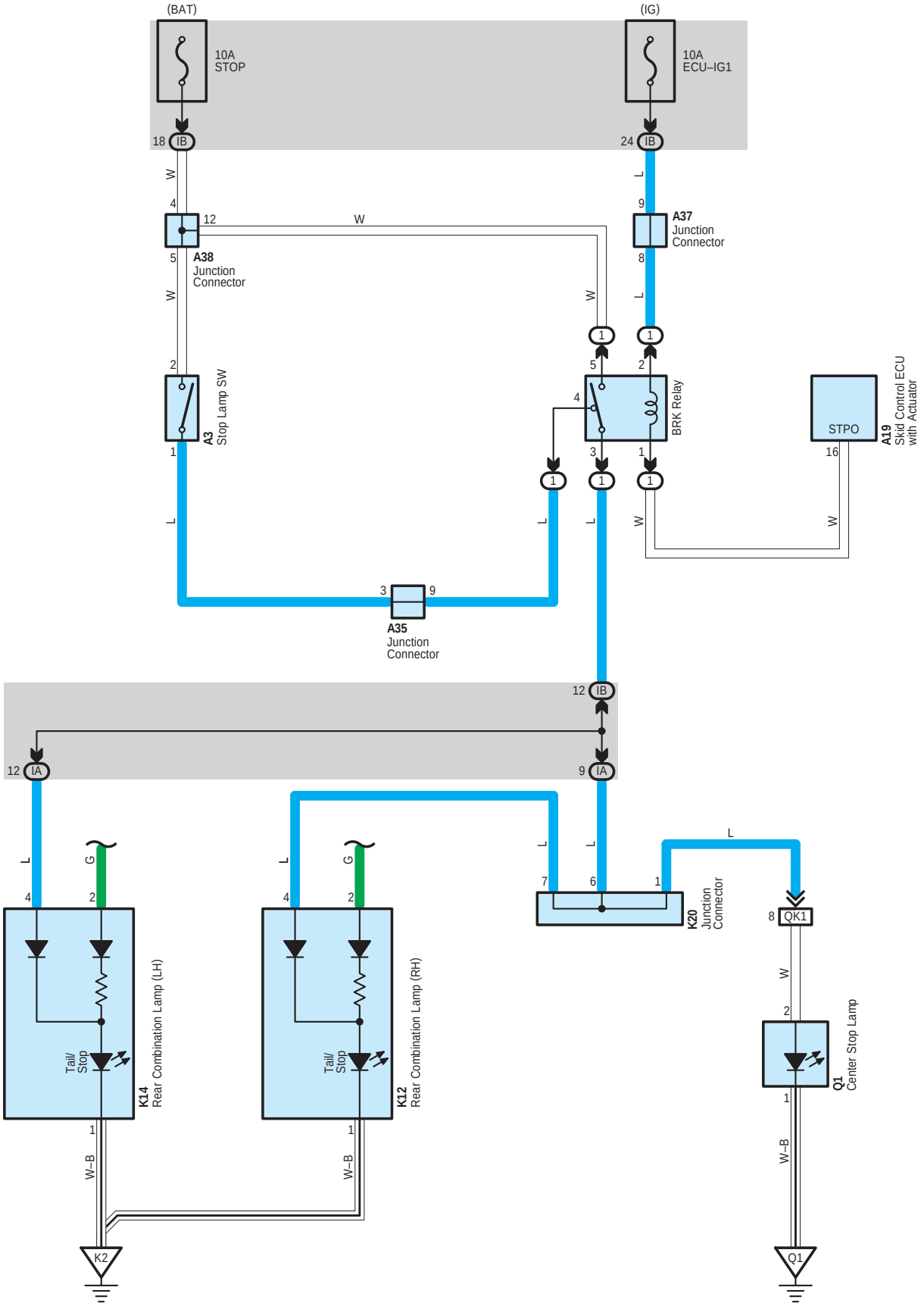
Code	See Page	Code	See Page	Code	See Page
A5	56				

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

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Stop Light



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	A37	56	K20	59
A19	50 (2GR–FE)	A38	56	Q1	61
	52 (2AZ–FE)	K12	59		
A35	56	K14	59		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)

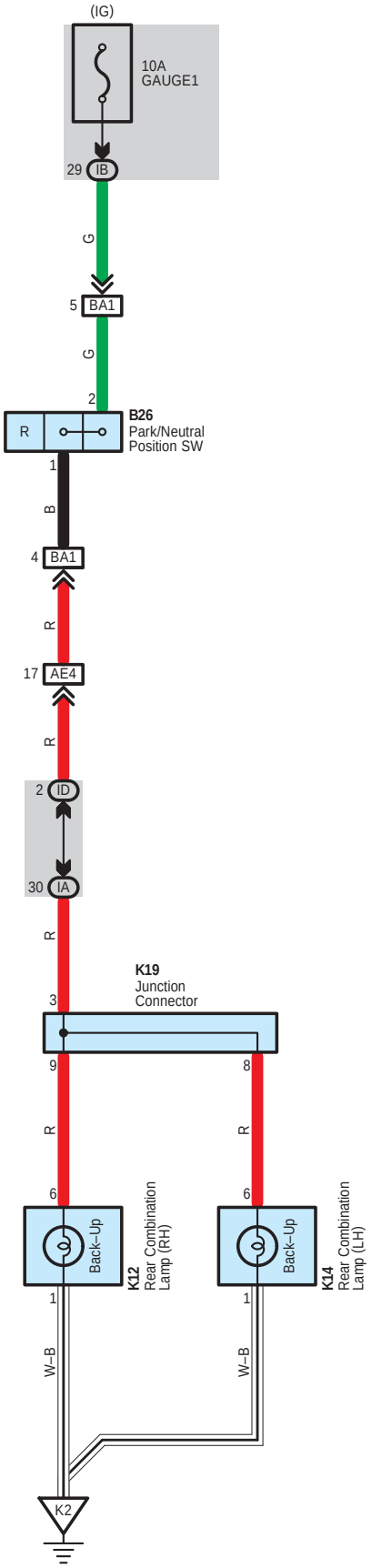
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
K2	67	Left Quarter Panel
Q1	67	Left Side of the Back Door

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B26	51 (2GR–FE)	K12	59	K19	59
	53 (2AZ–FE)	K14	59		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

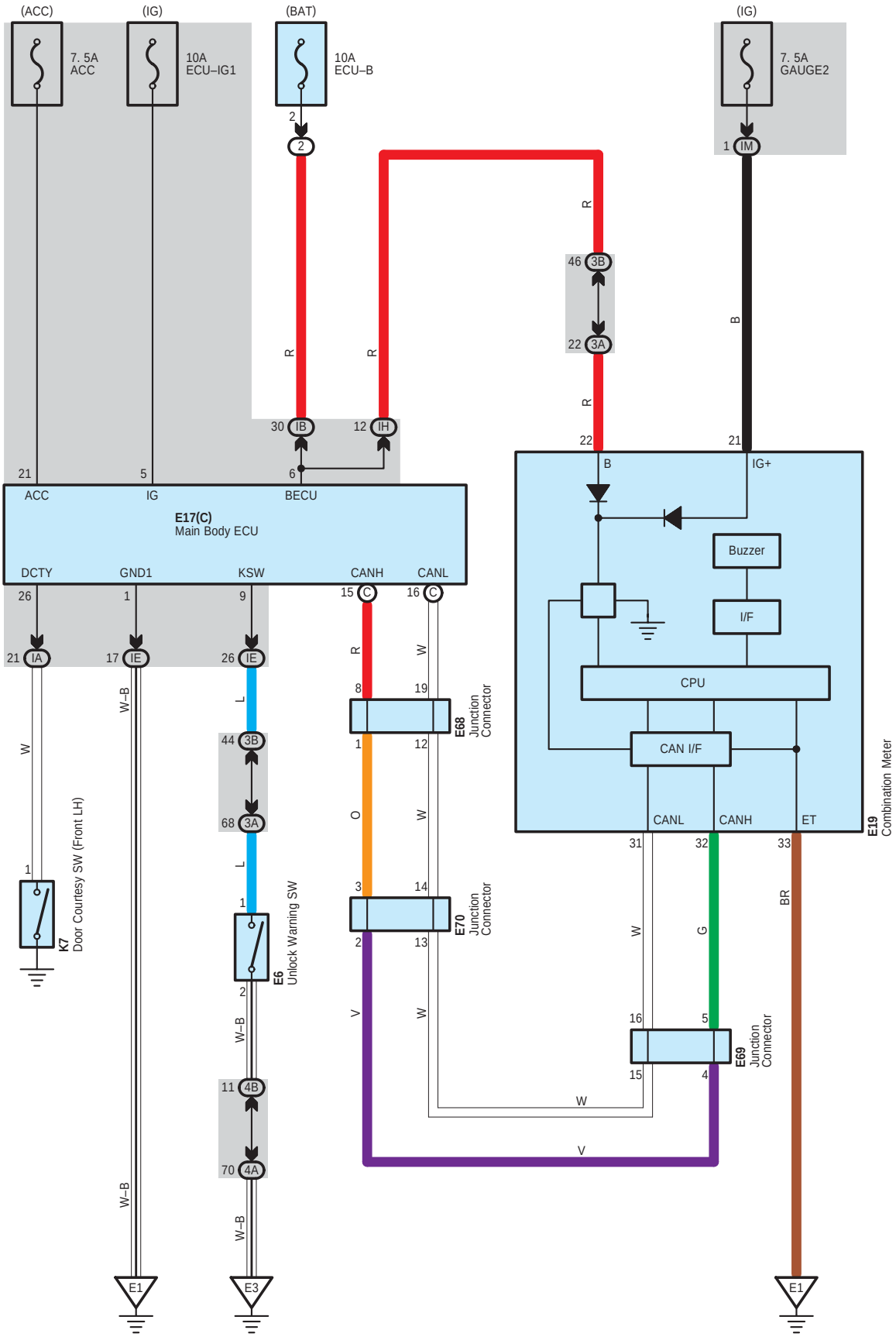
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	

▽ : Ground Points

Code	See Page	Ground Points Location
K2	67	Left Quarter Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E6	54	E68	55	K7	59
E17 C	54	E69	55		
E19	54	E70	55		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

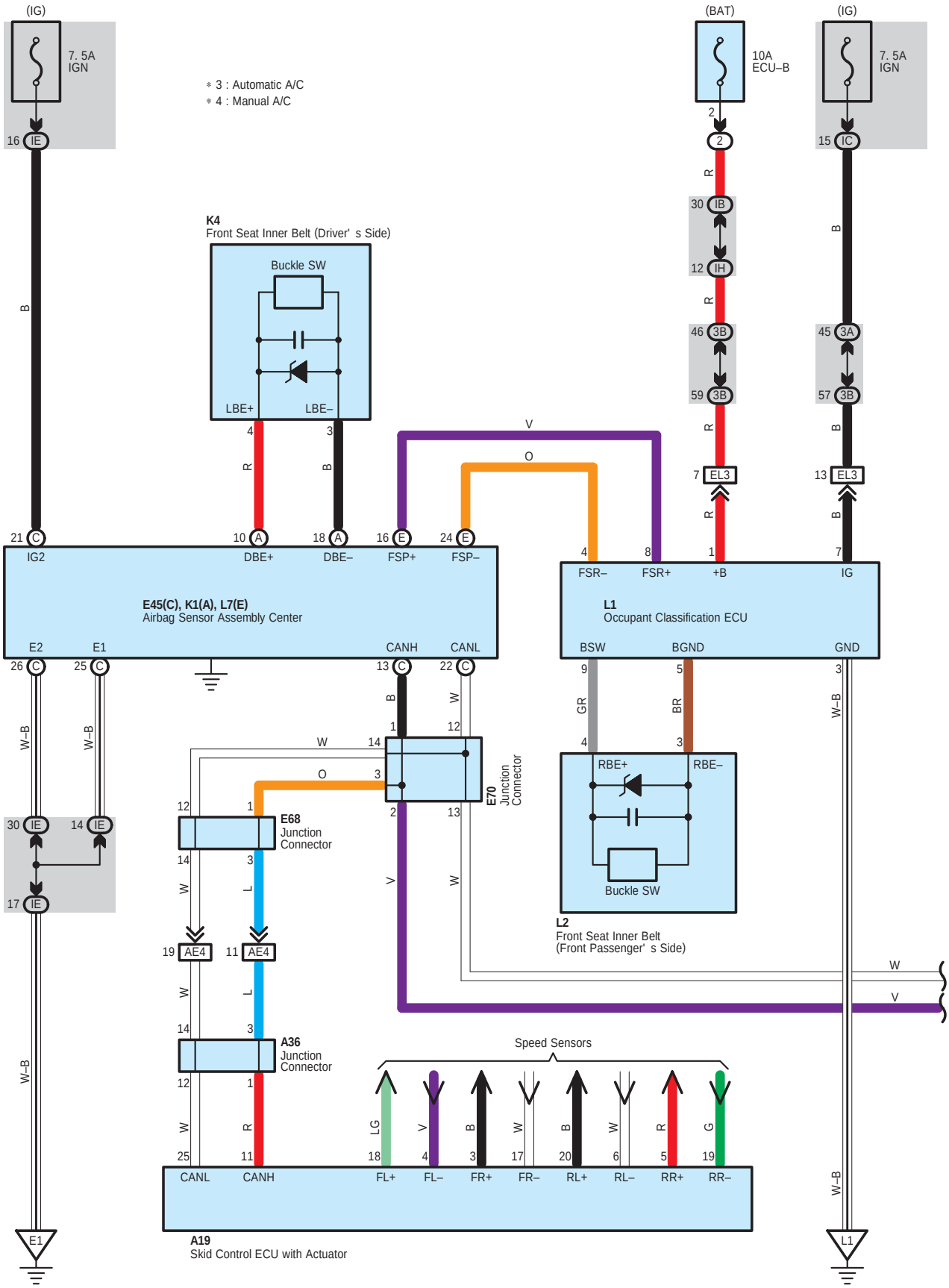
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	

: Ground Points

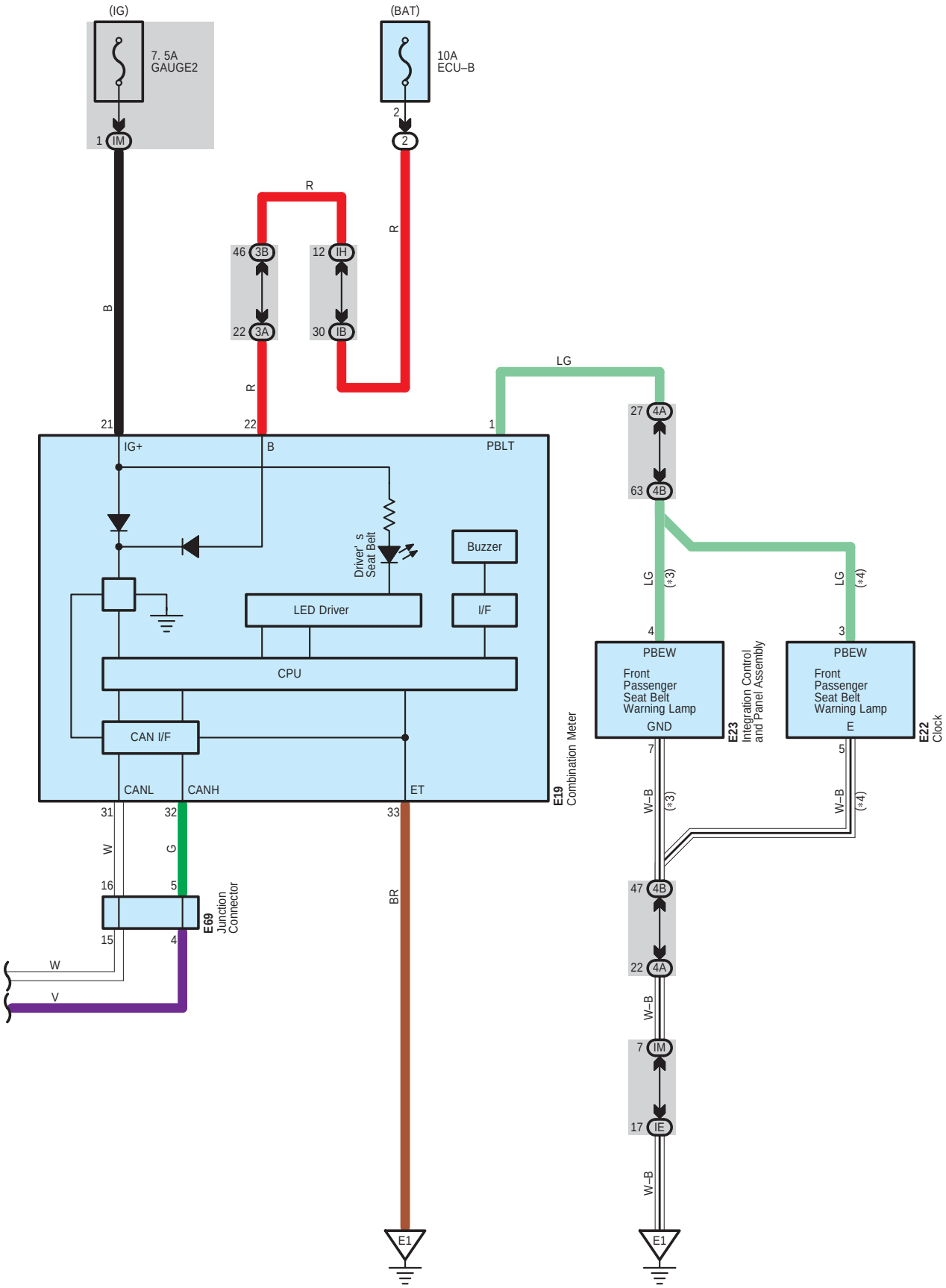
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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Seat Belt Warning



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A19	50 (2GR–FE)	E23	54	K1 A	57
	52 (2AZ–FE)	E45 C	55	K4	62
A36	56	E68	55	L1	62
E19	54	E69	55	L2	62
E22	54	E70	55	L7 E	57

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IH		
IM	31	

: Connector Joining Wire Harness and Wire Harness

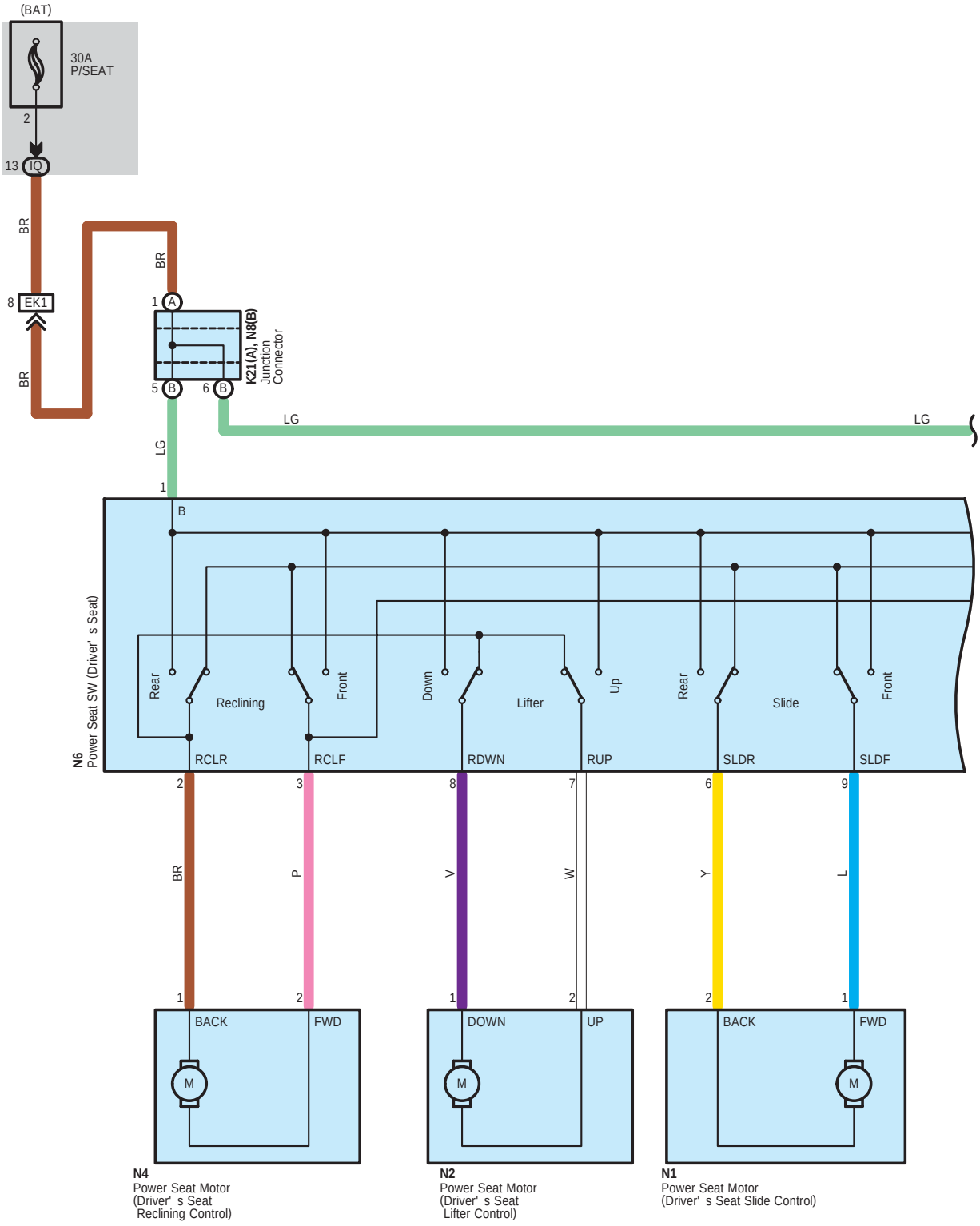
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

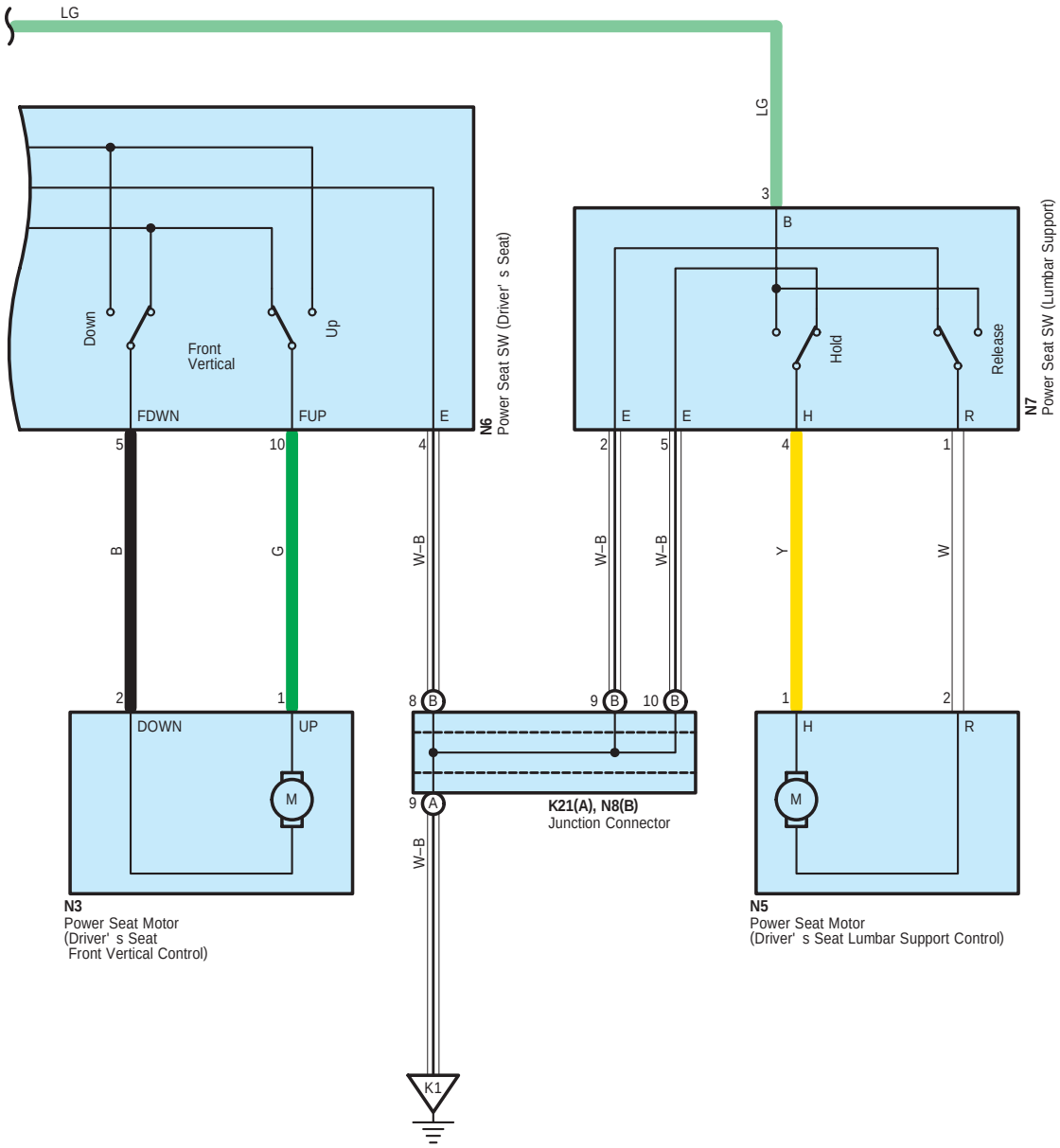
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
L1	67	Right Center Pillar

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Power Seat

: **Parts Location**

Code		See Page	Code	See Page	Code		See Page
K21	A	62	N3	62	N6		62
N1		62	N4	62	N7		62
N2		62	N5	62	N8	B	62

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IQ	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

: **Connector Joining Wire Harness and Wire Harness**

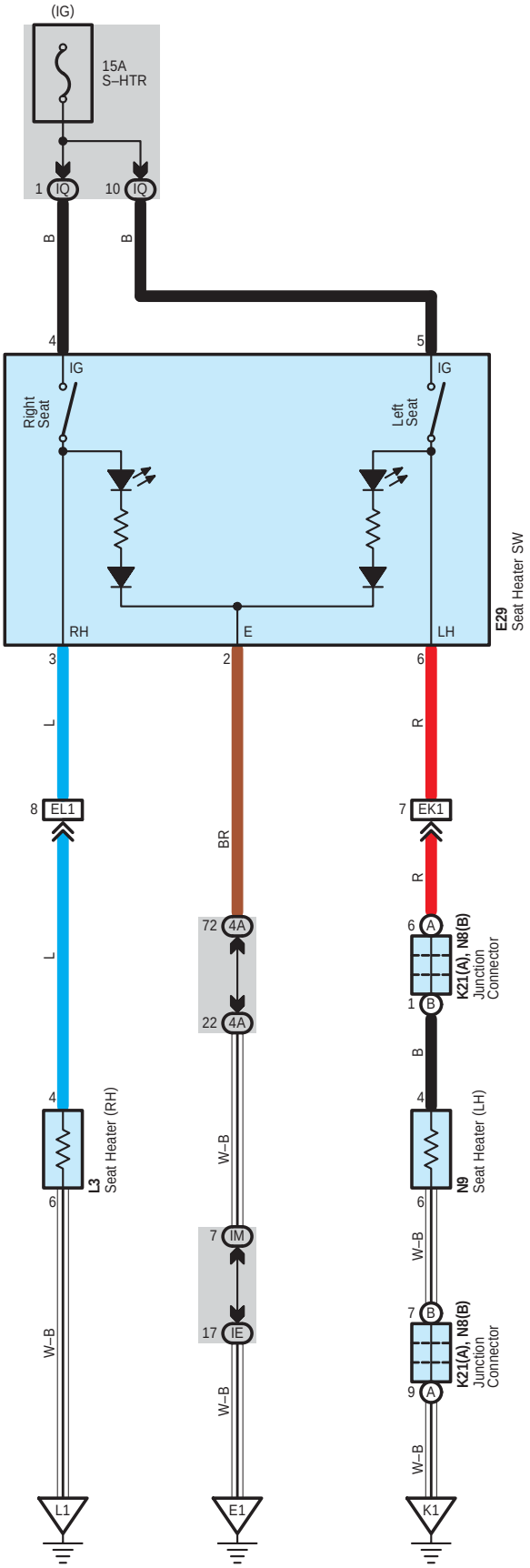
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
K1	67	Left Center Pillar

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○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
E29		54	L3		62	N9	62
K21	A	62	N8	B	62		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IQ		

: Connector Joining Wire Harness and Wire Harness

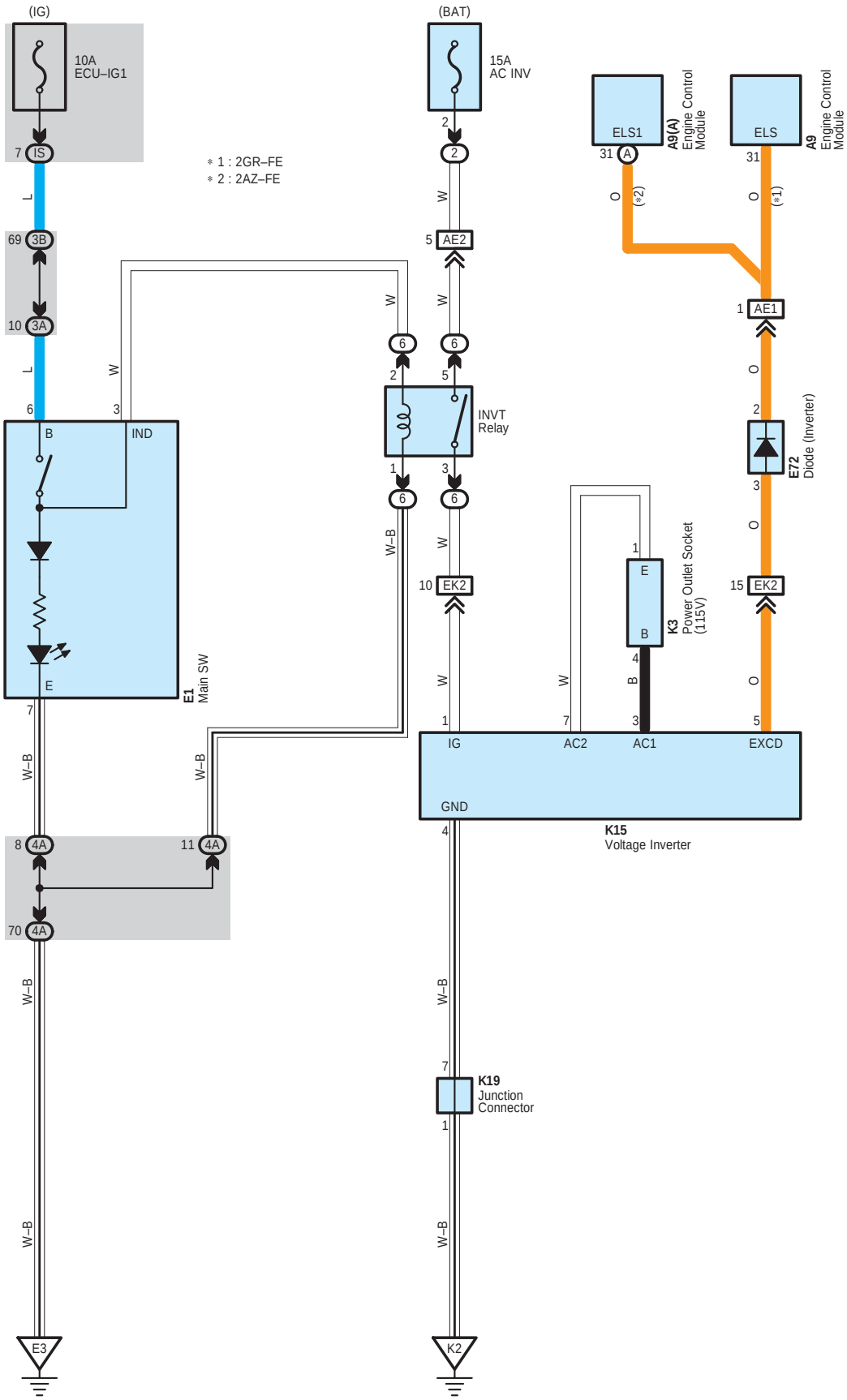
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
K1	67	Left Center Pillar
L1	67	Right Center Pillar

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Power Outlet – 115V



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: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	50 (2GR–FE)	E72	55	K19	59
		52 (2AZ–FE)	K3	57		
E1		54	K15	59		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	
6	28	R/B No.6 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IS	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

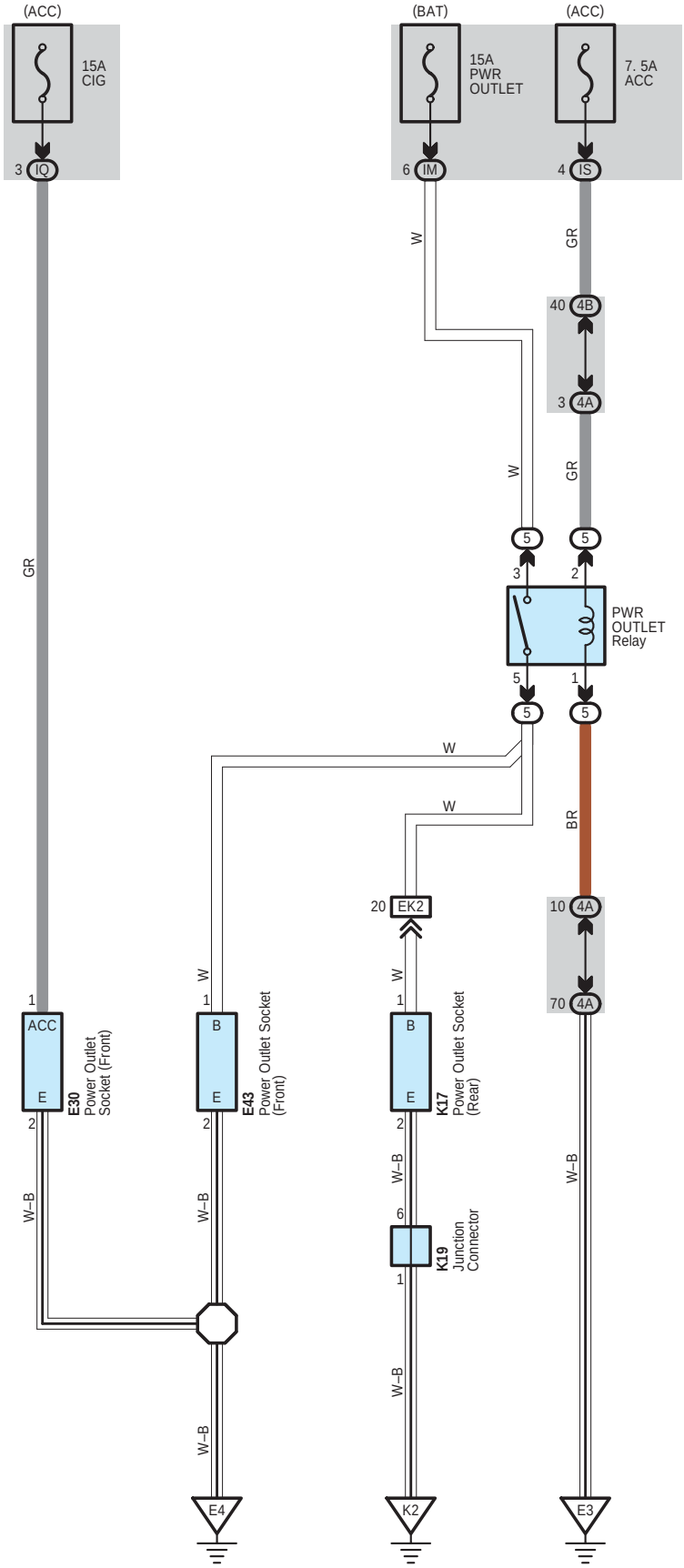
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE2		
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
E3	66	Instrument Panel Reinforcement Center
K2	67	Left Quarter Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E30	54	K17	59		
E43	55	K19	59		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
5	28	R/B No.5 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IQ		
IS		

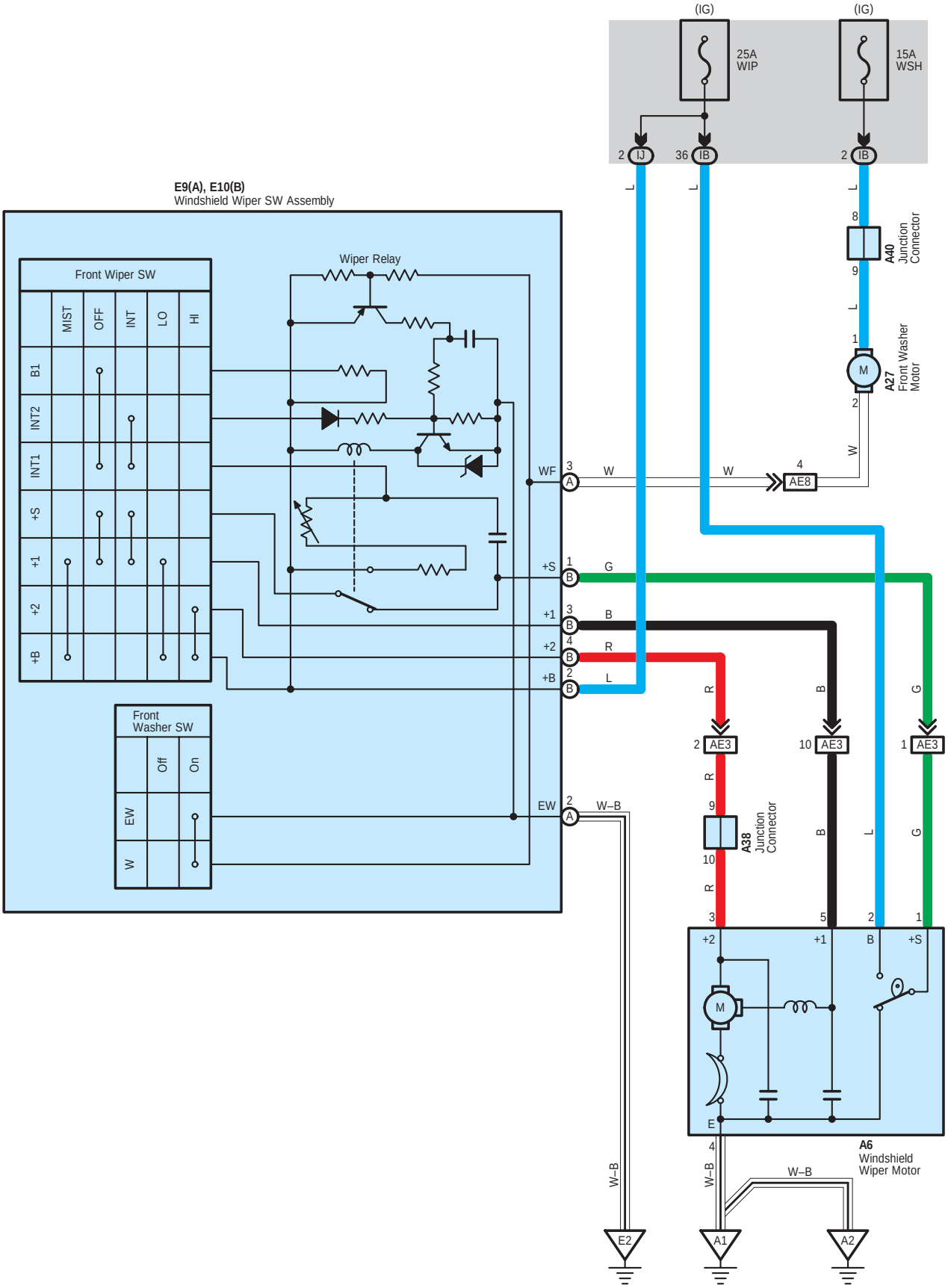
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel
K2	67	Left Quarter Panel

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: Parts Location

Code	See Page	Code	See Page	Code		See Page
A6	50 (2GR–FE)	A27	52 (2AZ–FE)	A40		52 (2AZ–FE)
	52 (2AZ–FE)	A38	56	E9	A	54
A27	50 (2GR–FE)	A40	50 (2GR–FE)	E10	B	54

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IJ	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

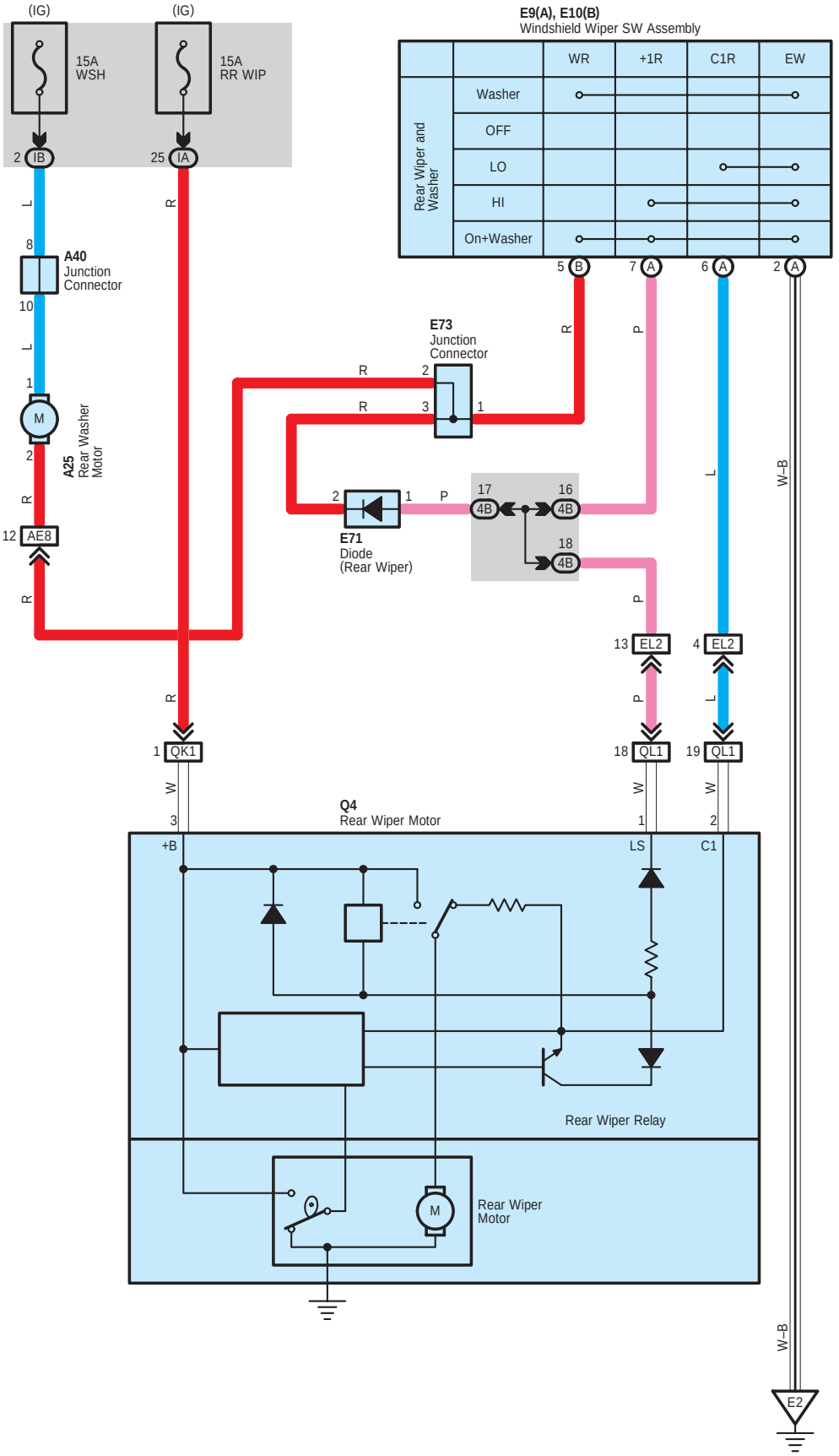
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
E2	66	Instrument Panel Reinforcement Left

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: Parts Location

Code	See Page	Code		See Page	Code	See Page
A25	50 (2GR–FE)	A40		52 (2AZ–FE)	E71	55
	52 (2AZ–FE)	E9	A	54	E73	55
A40	50 (2GR–FE)	E10	B	54	Q4	61

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

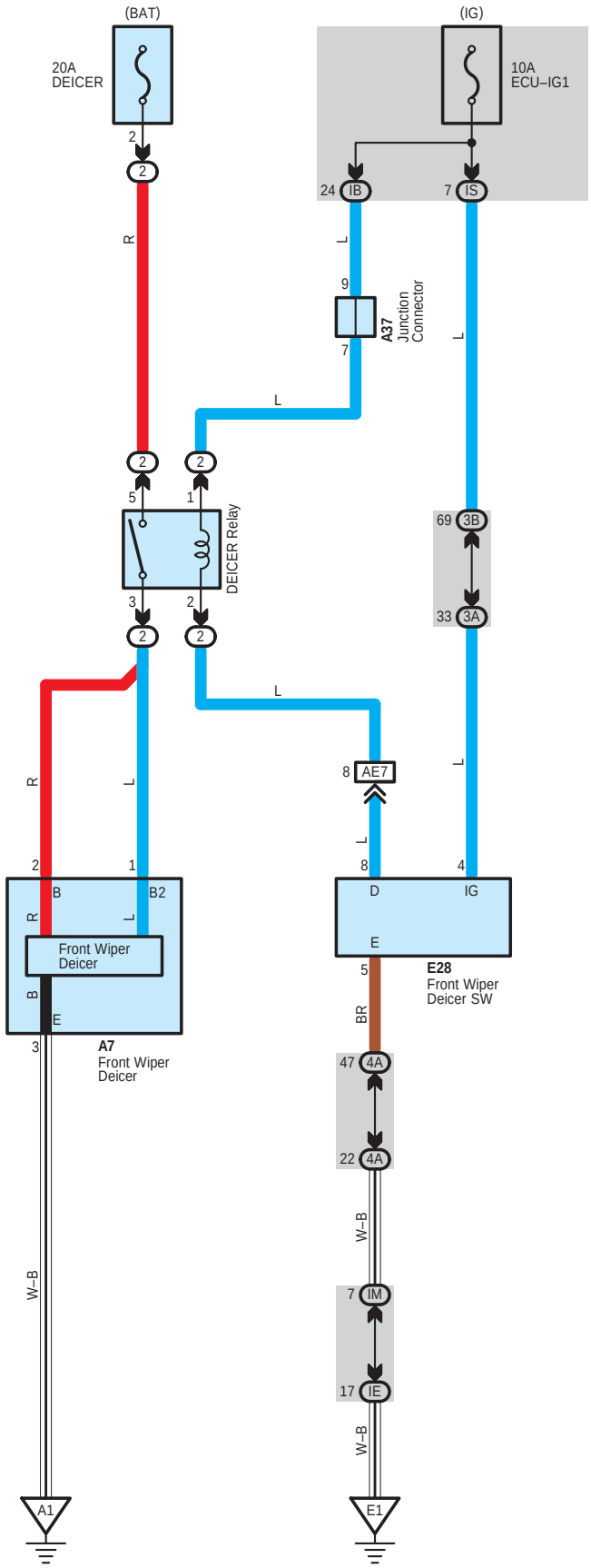
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
EL2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
E2	66	Instrument Panel Reinforcement Left

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Front Window Deicer



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A7	50 (2GR–FE)	A37	56		
	52 (2AZ–FE)	E28	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IS		

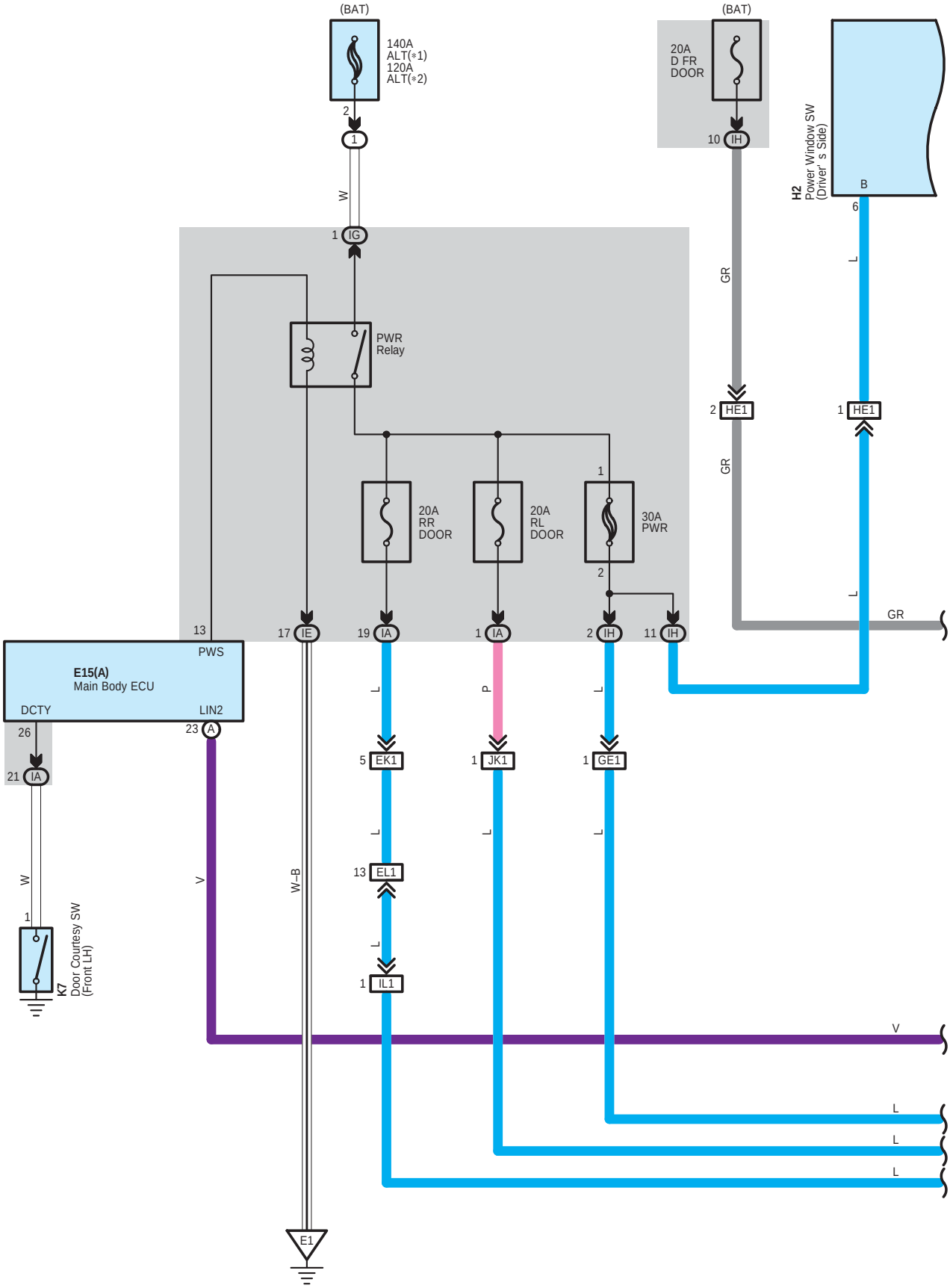
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

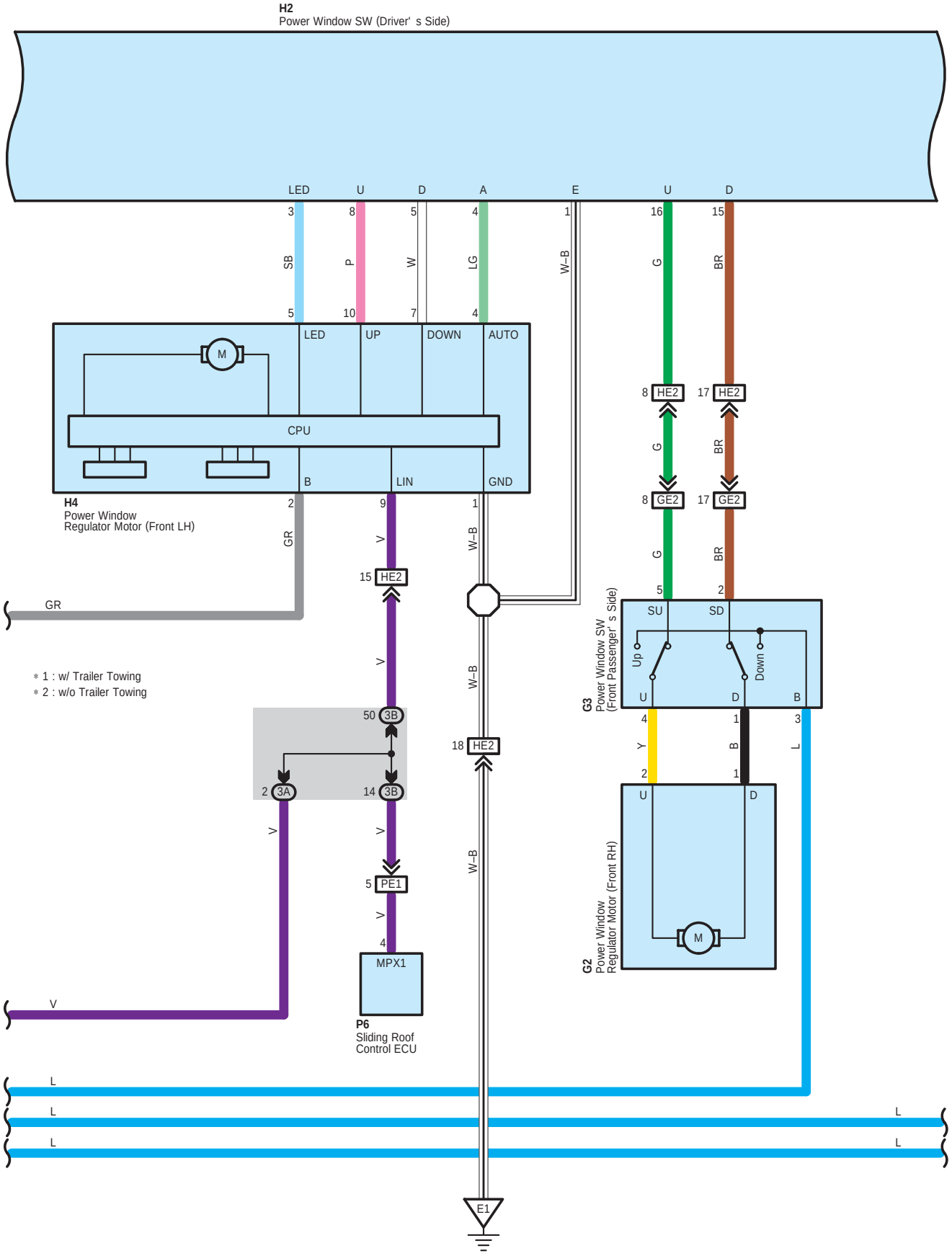
: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel

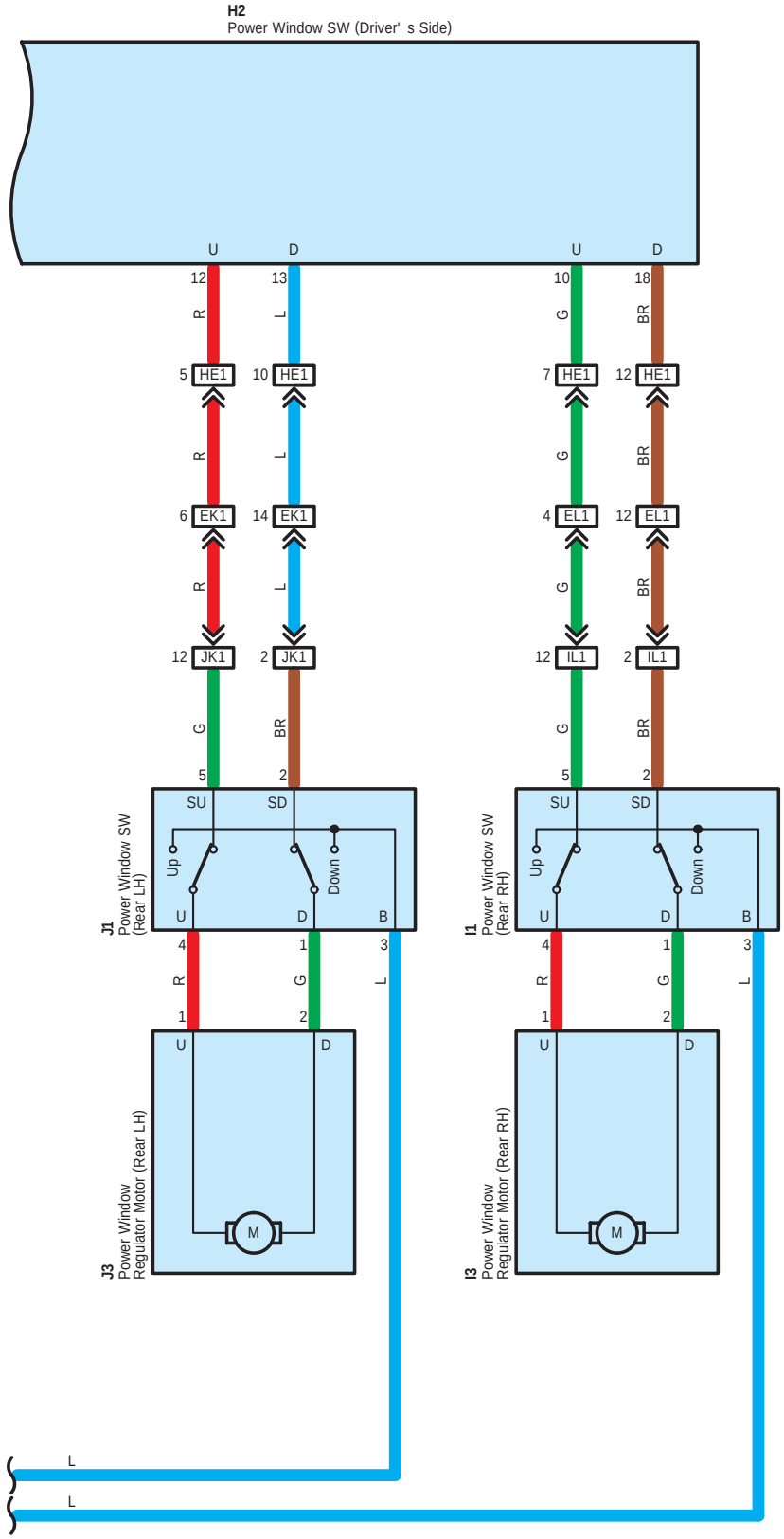
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E15 A	54	H4	58	J3	58
G2	58	I1	58	K7	59
G3	58	I3	58	P6	61
H2	58	J1	58		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

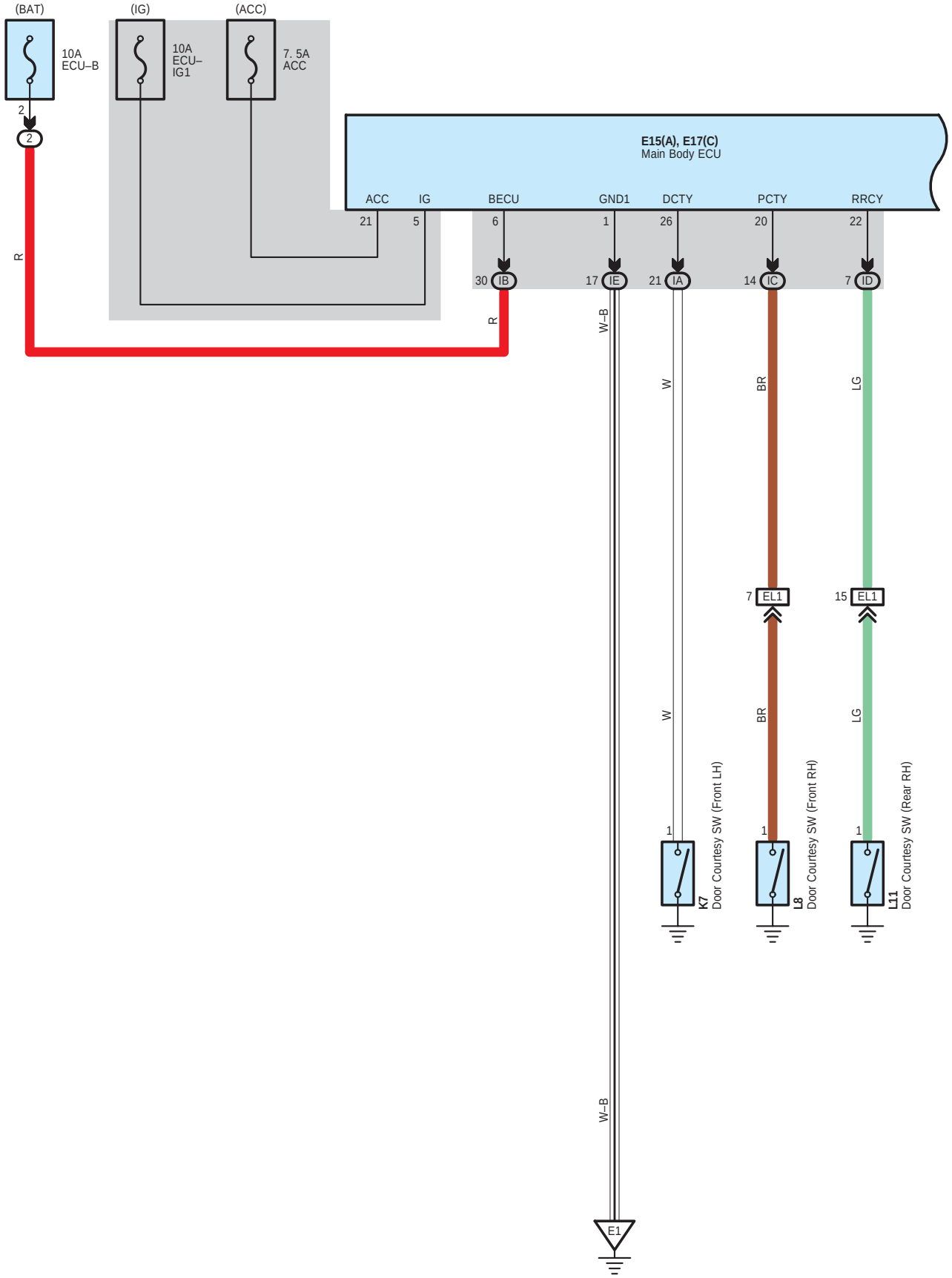
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)

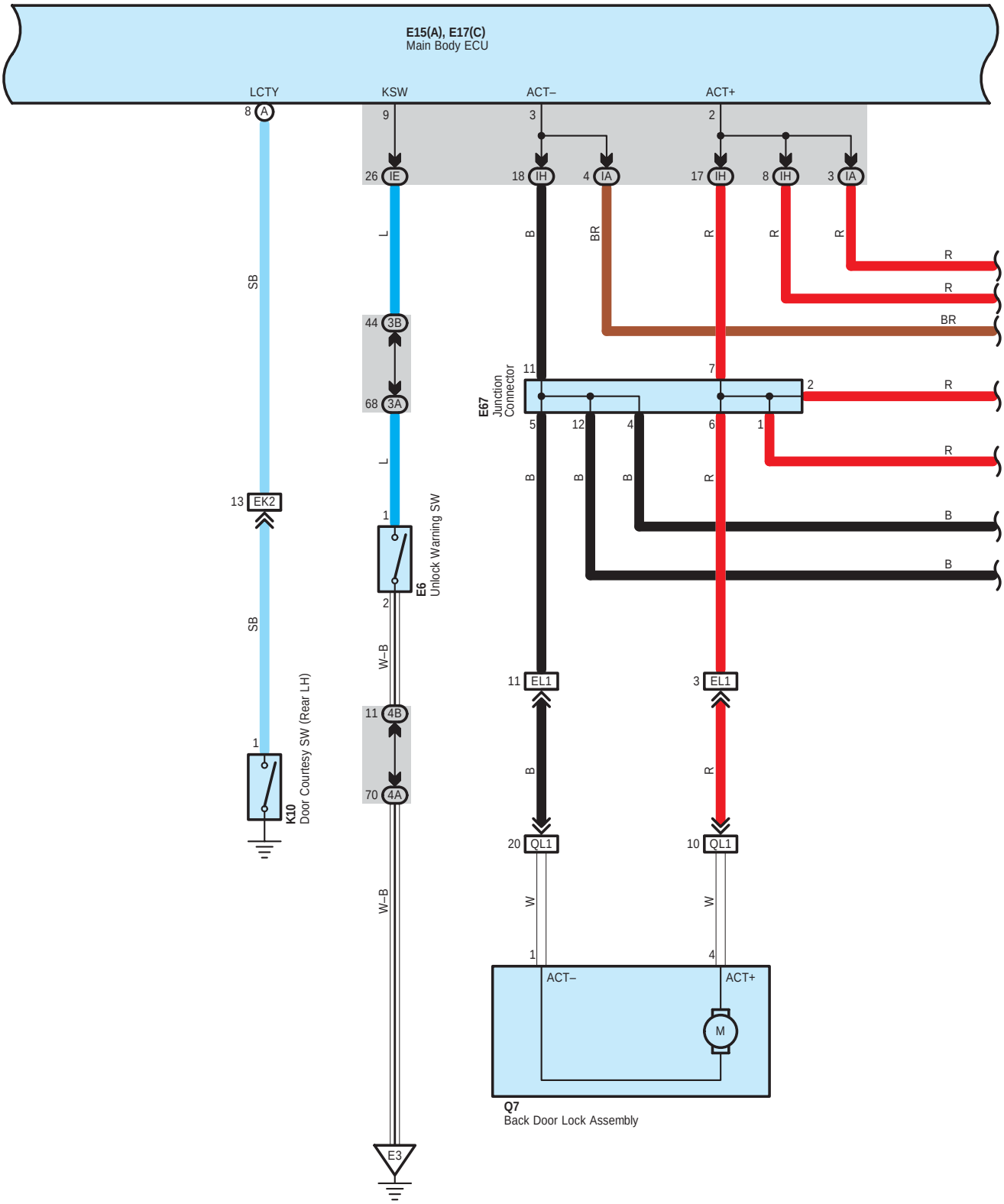
: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel

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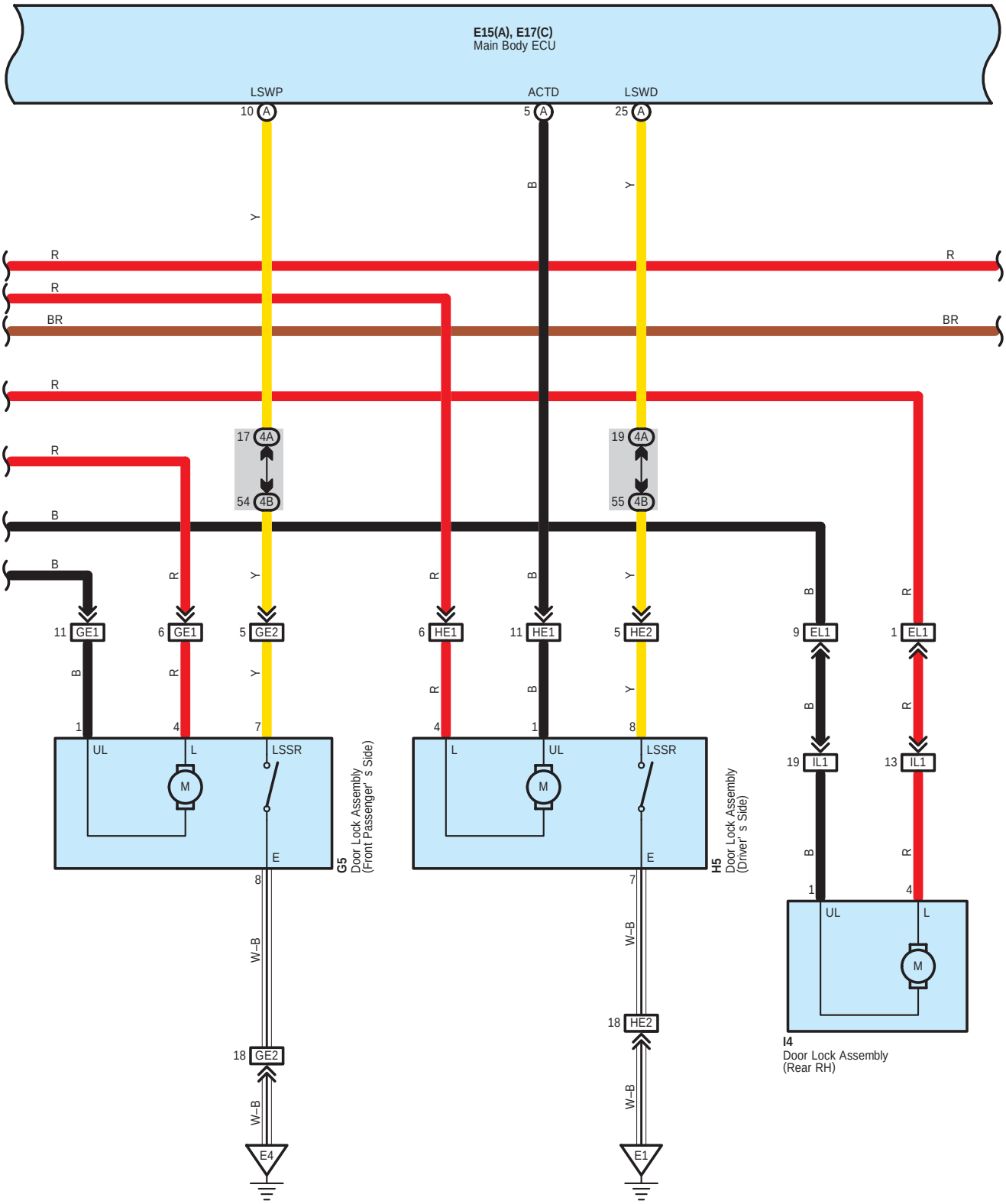


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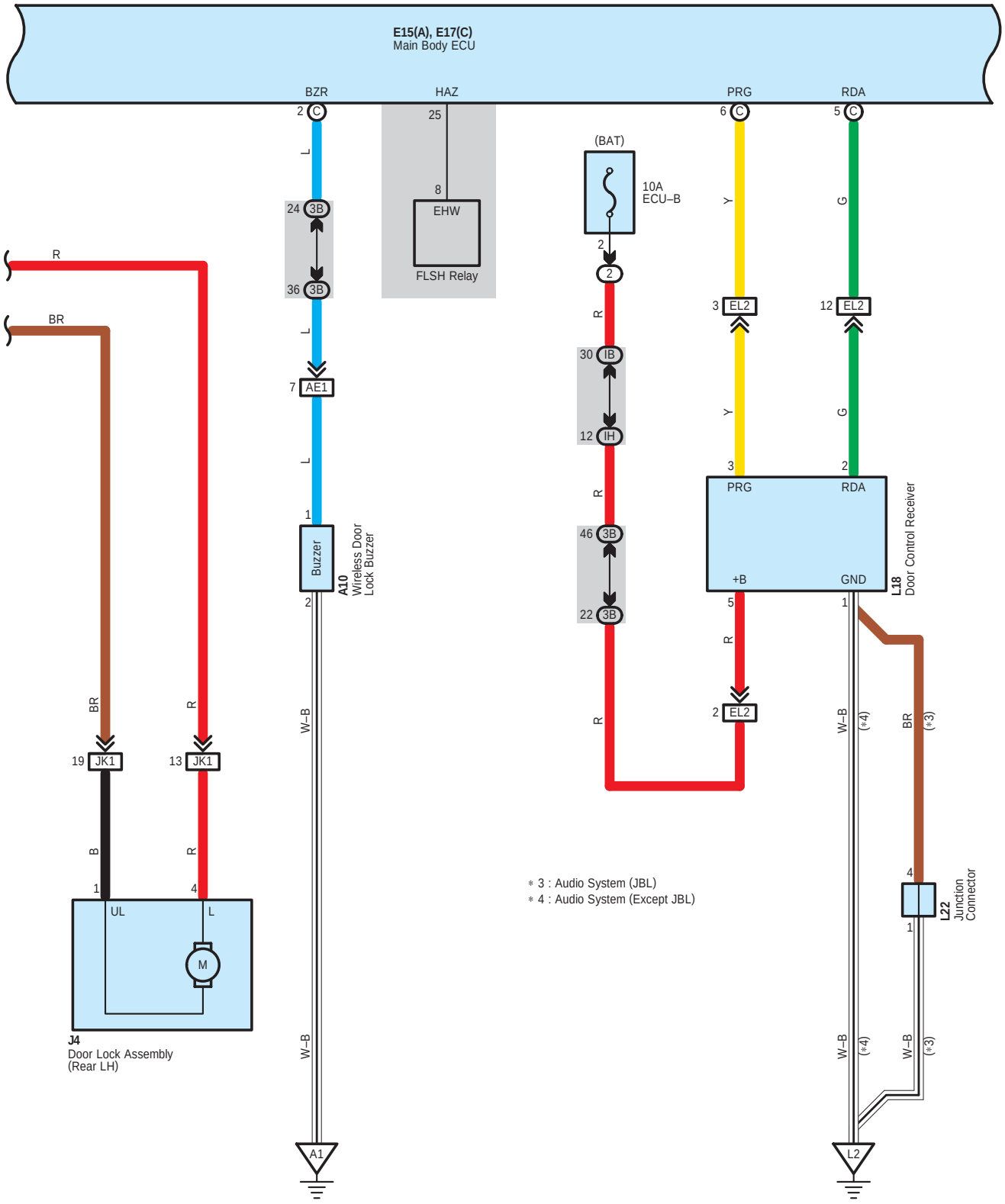


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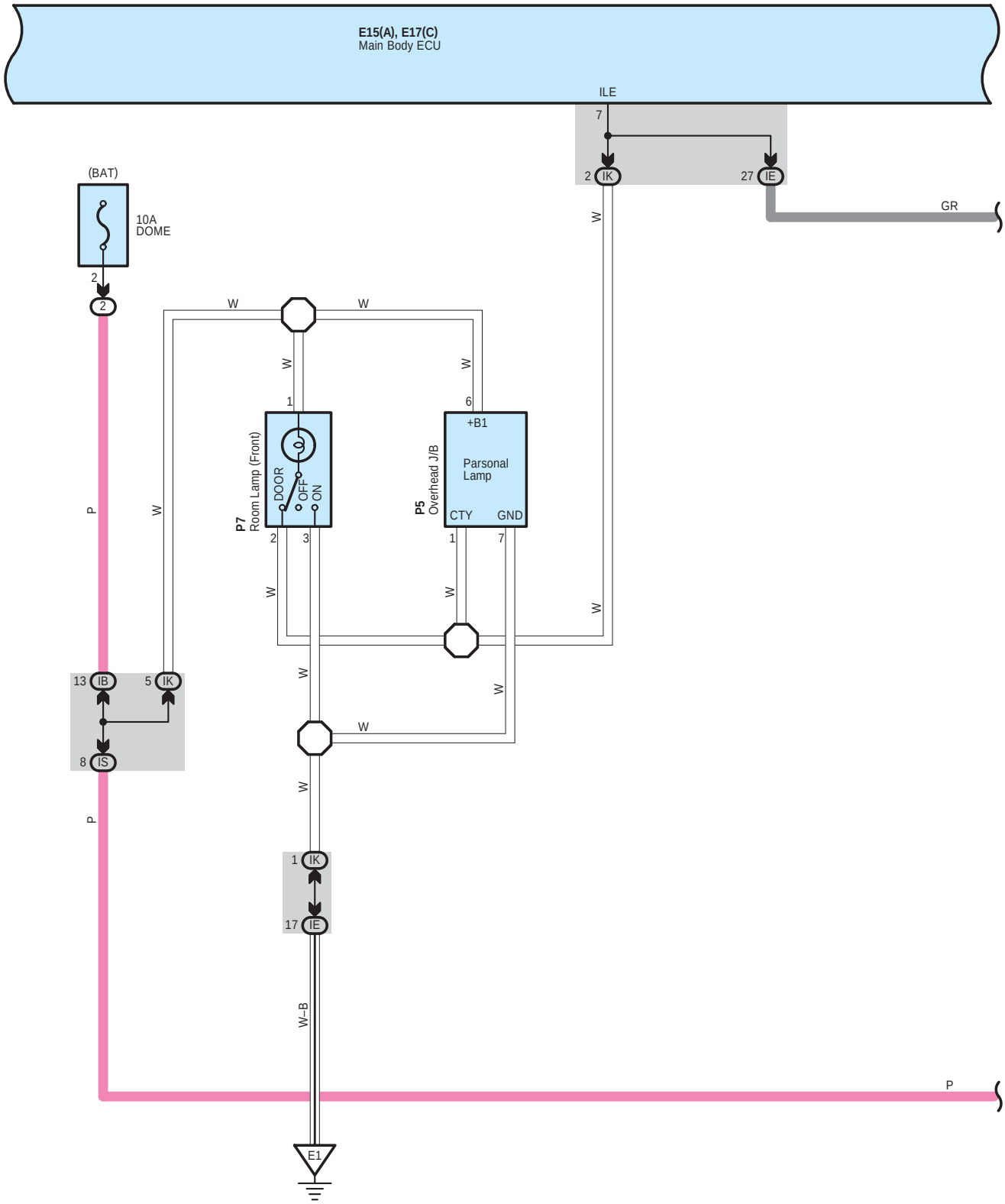
Wireless Door Lock Control



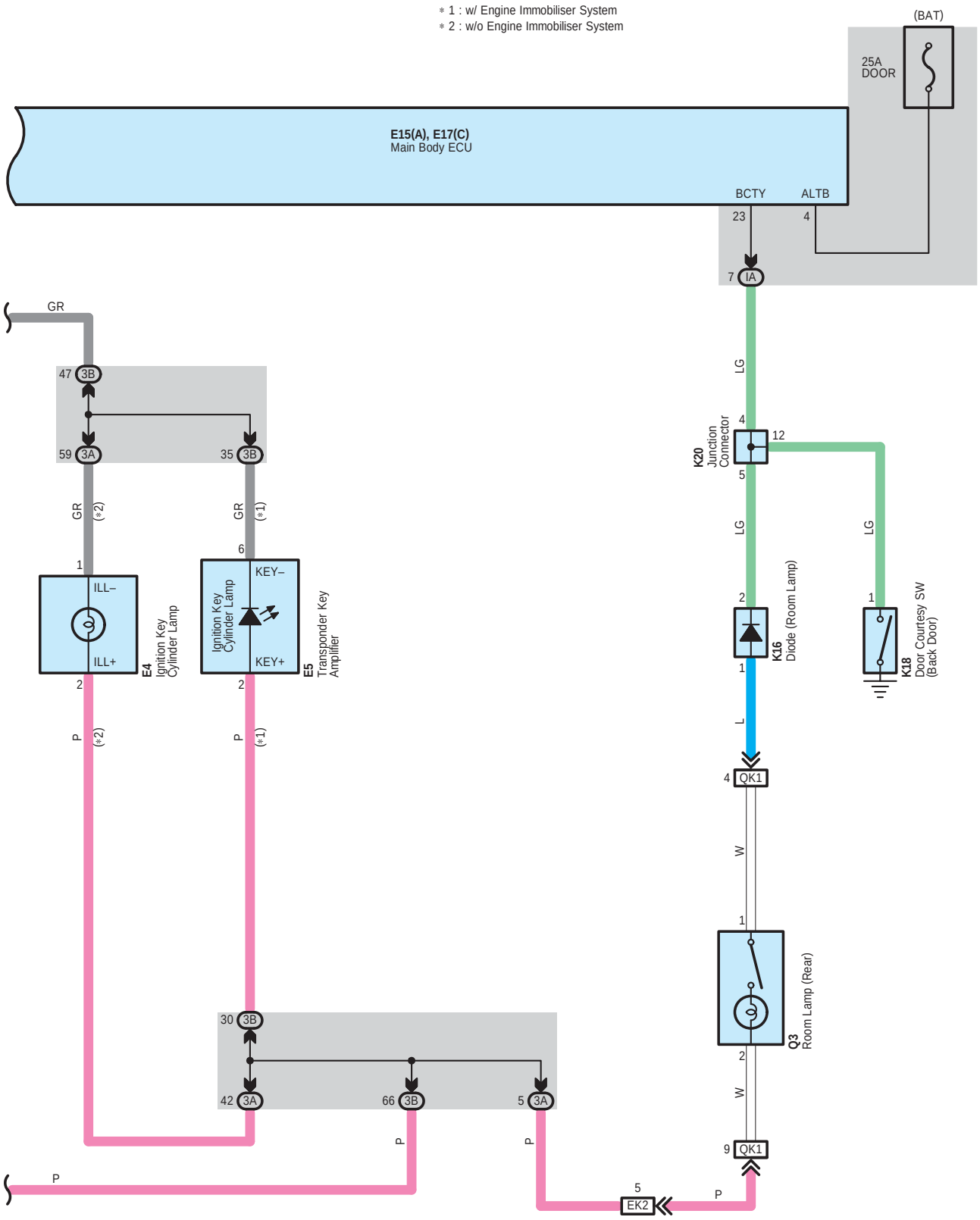
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Wireless Door Lock Control

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A10	50 (2GR–FE)	H5	58	L11	60
	52 (2AZ–FE)	I4	58	L18	60
E4	54	J4	58	L22	60
E5	54	K7	59	P5	61
E6	54	K10	59	P7	61
E15 A	54	K16	59	Q3	61
E17 C	54	K18	59	Q7	61
E67	55	K20	59		
G5	58	L8	60		

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

▭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IE		
IH		
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)
IS	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

▭ : **Connector Joining Wire Harness and Wire Harness**

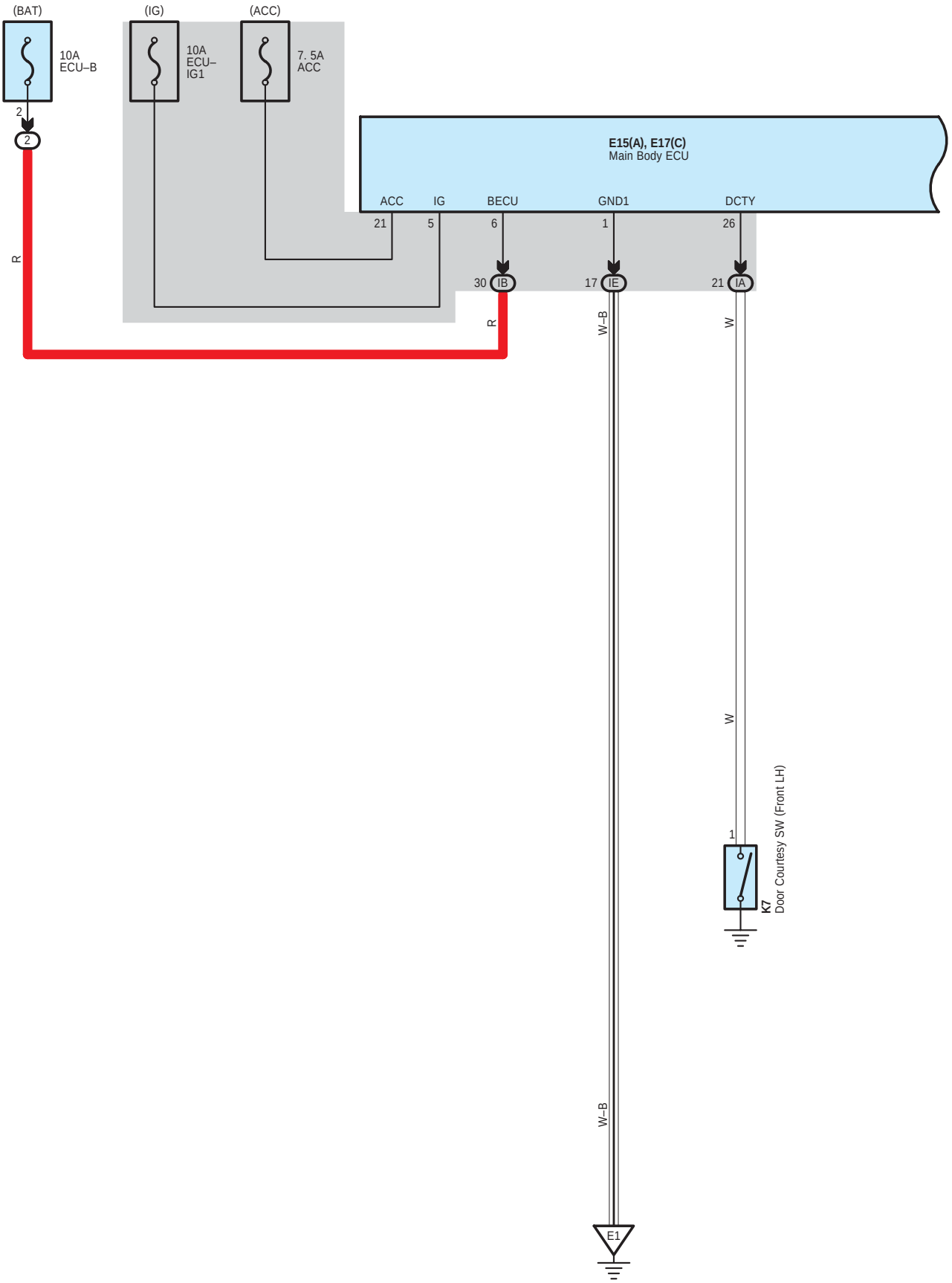
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EL2		
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

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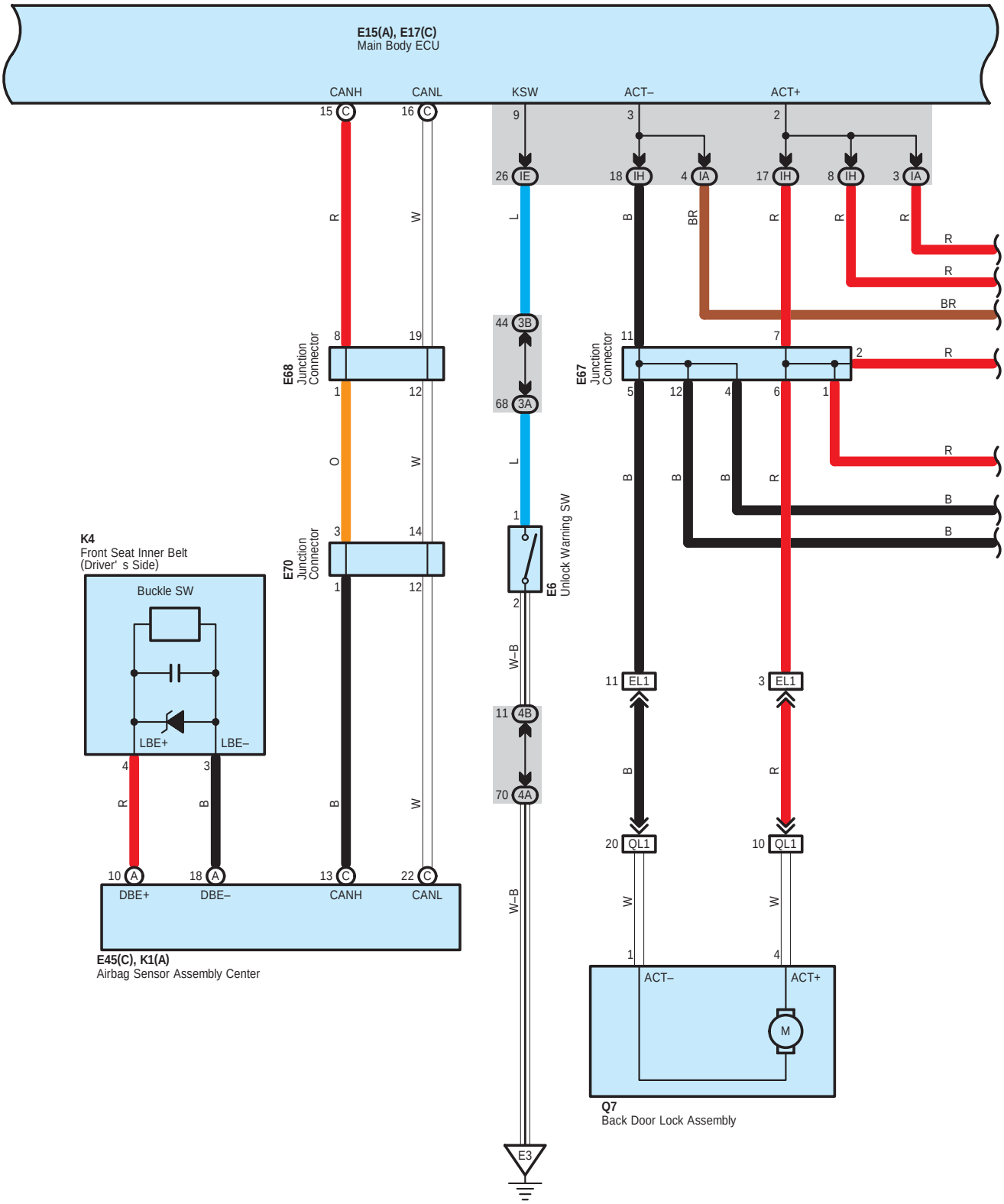
▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel
L2	67	Right Quarter Panel

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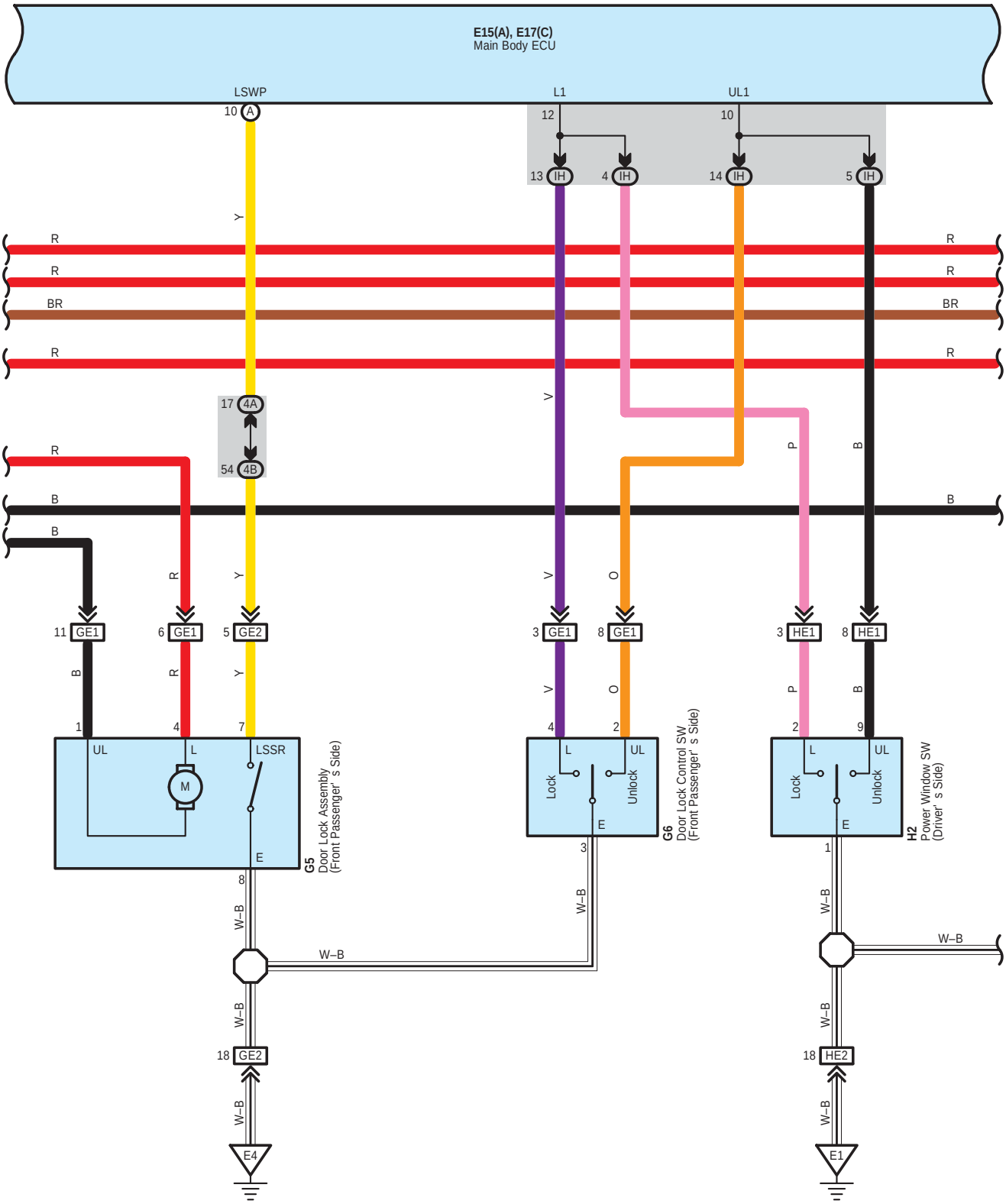


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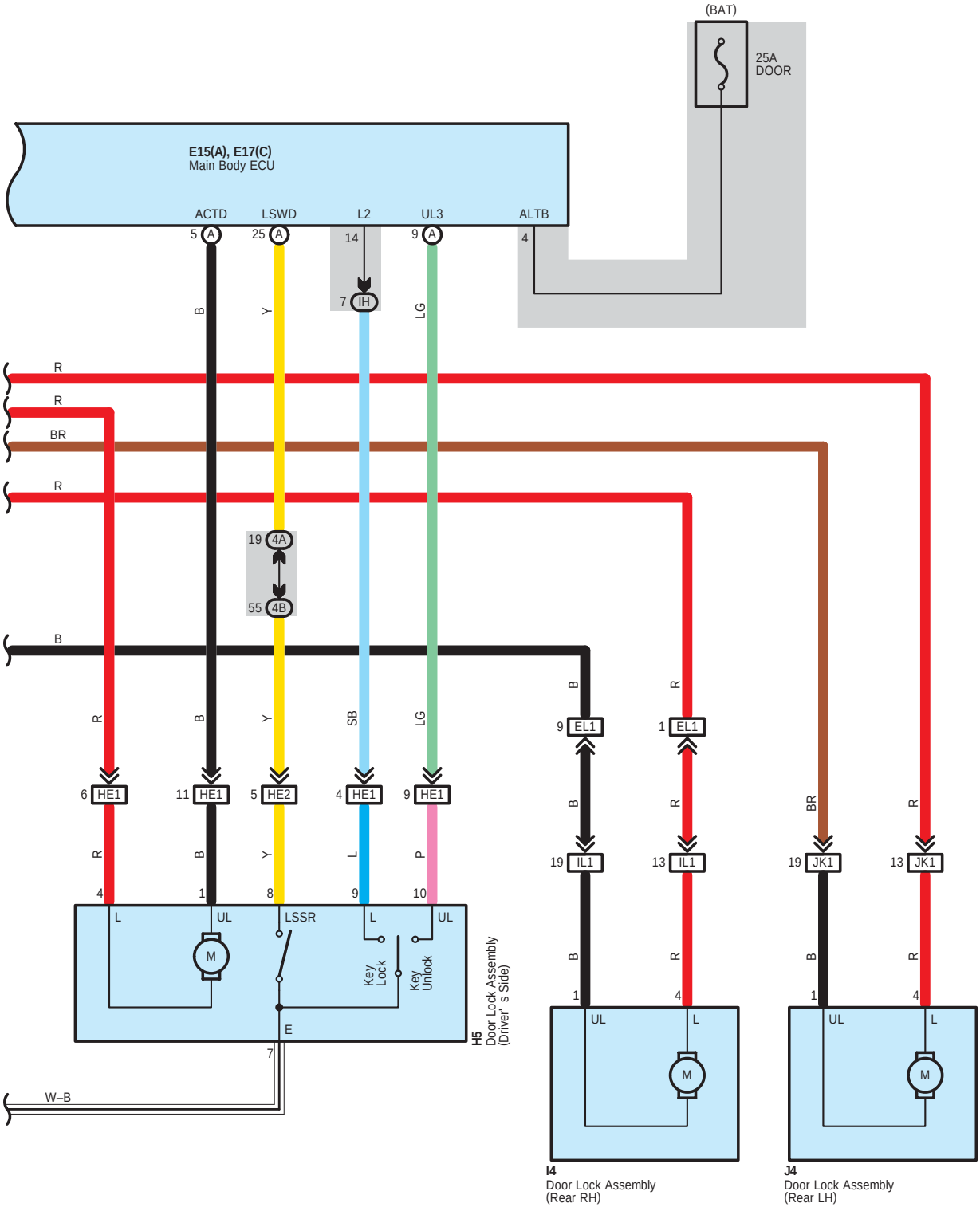


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Door Lock Control



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Door Lock Control

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E6	54	E70	55	J4	58
E15 A	54	G5	58	K1 A	57
E17 C	54	G6	58	K4	62
E45 C	55	H2	58	K7	59
E67	55	H5	58	Q7	61
E68	55	I4	58		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		

: Connector Joining Wire Harness and Wire Harness

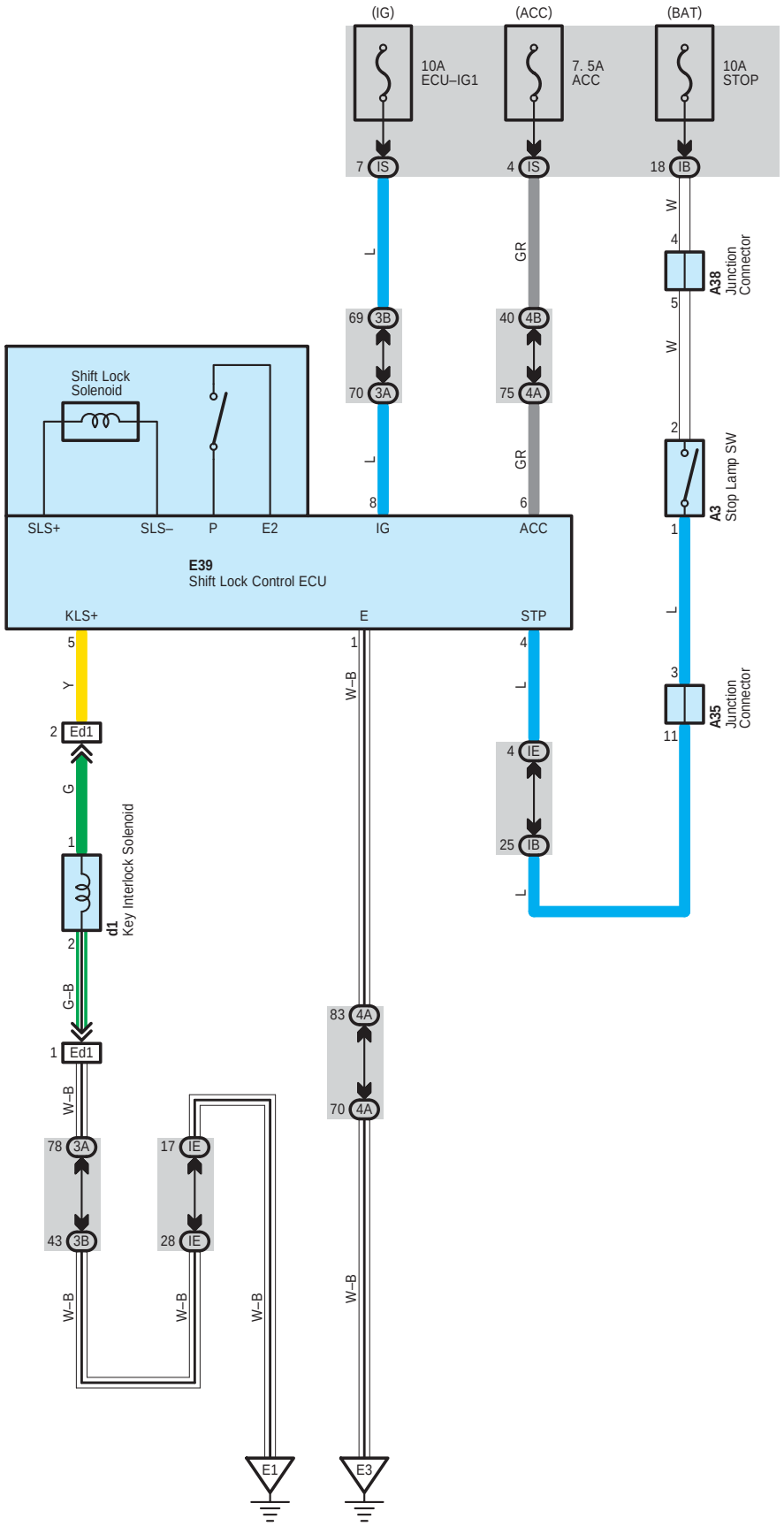
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	A38	56	d1	57
A35	56	E39	55		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IS	31	

▭ : Connector Joining Wire Harness and Wire Harness

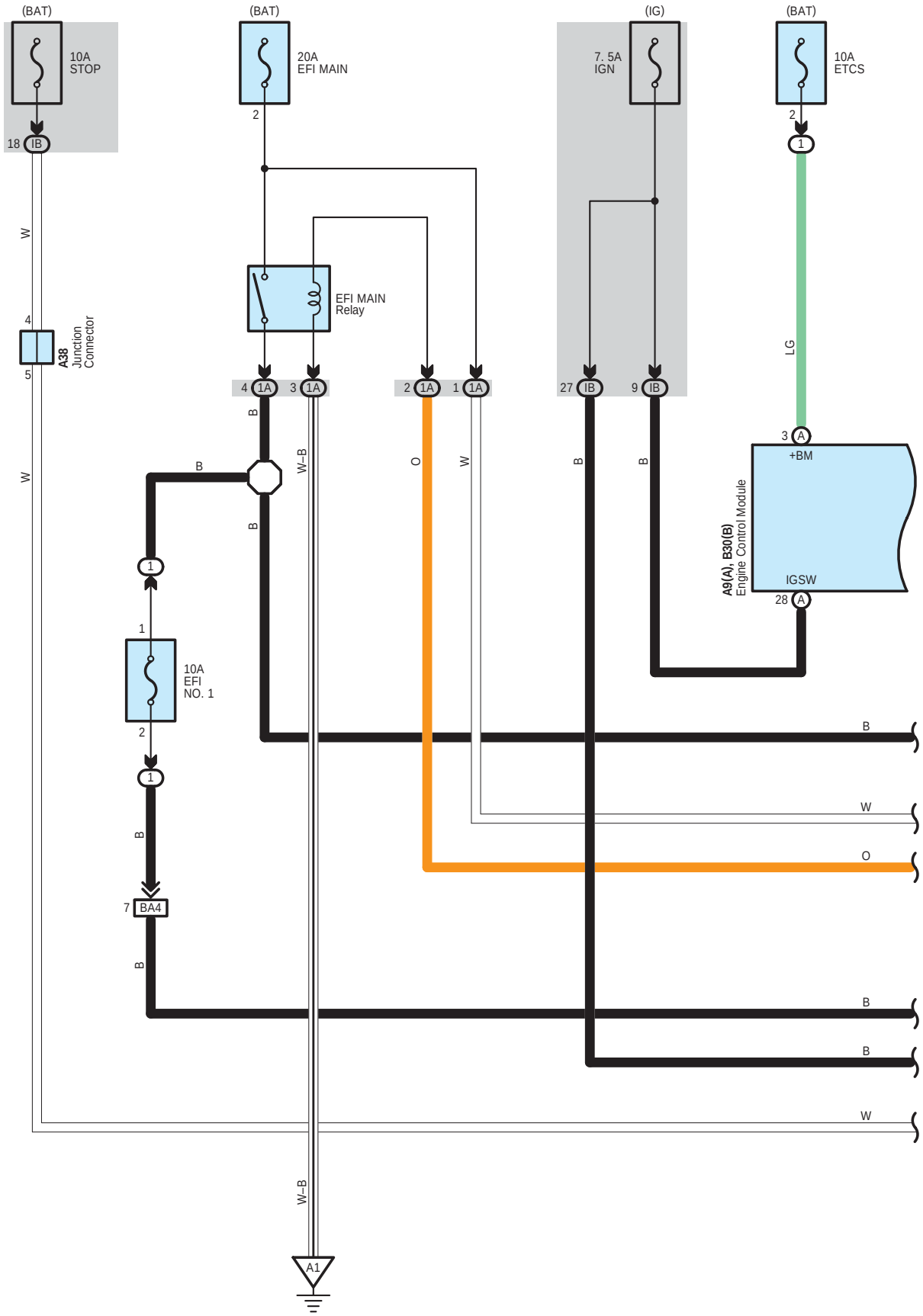
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
Ed1	66	Instrument Panel Wire and Solenoid Wire (Steering Column)

▽ : Ground Points

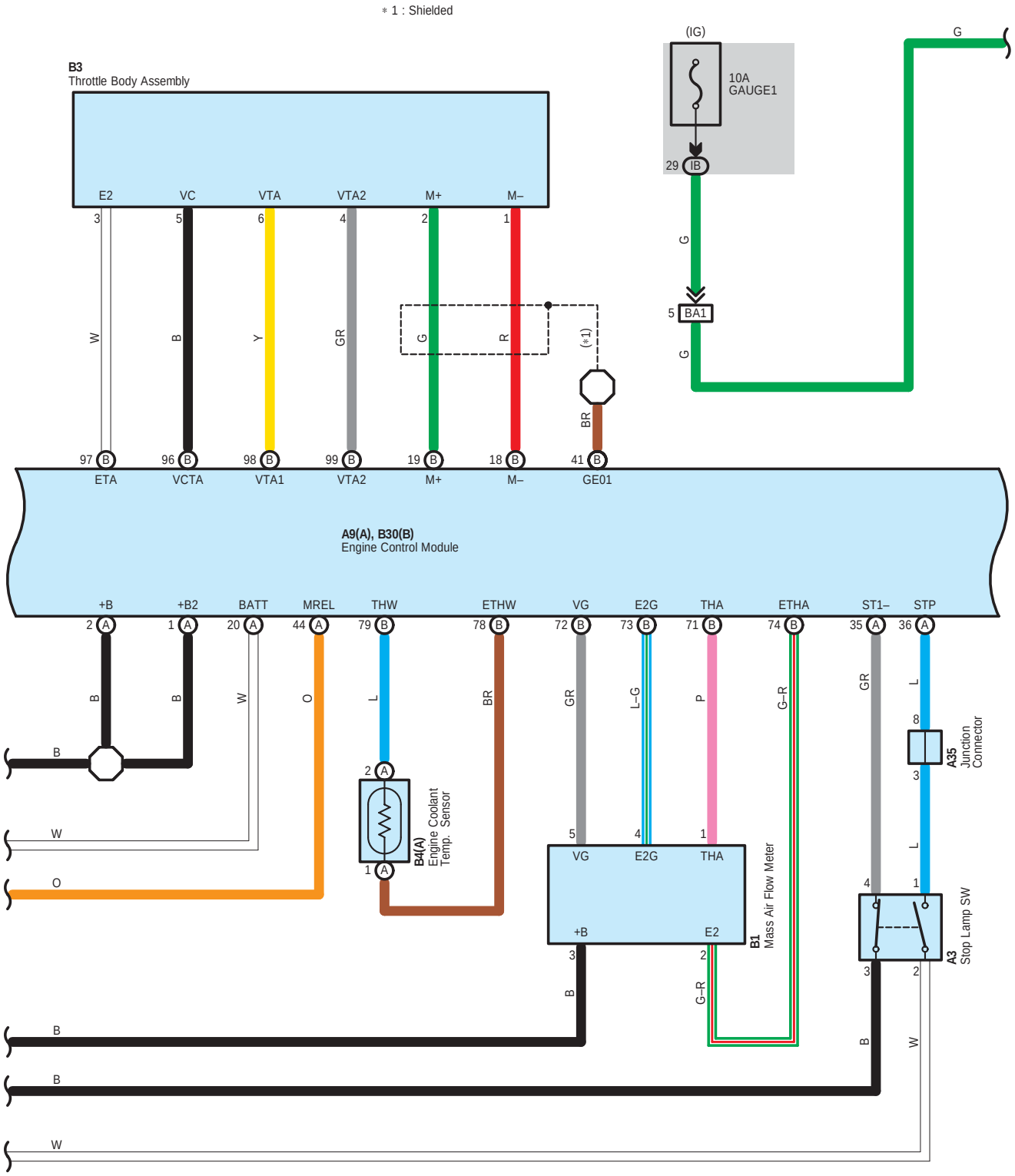
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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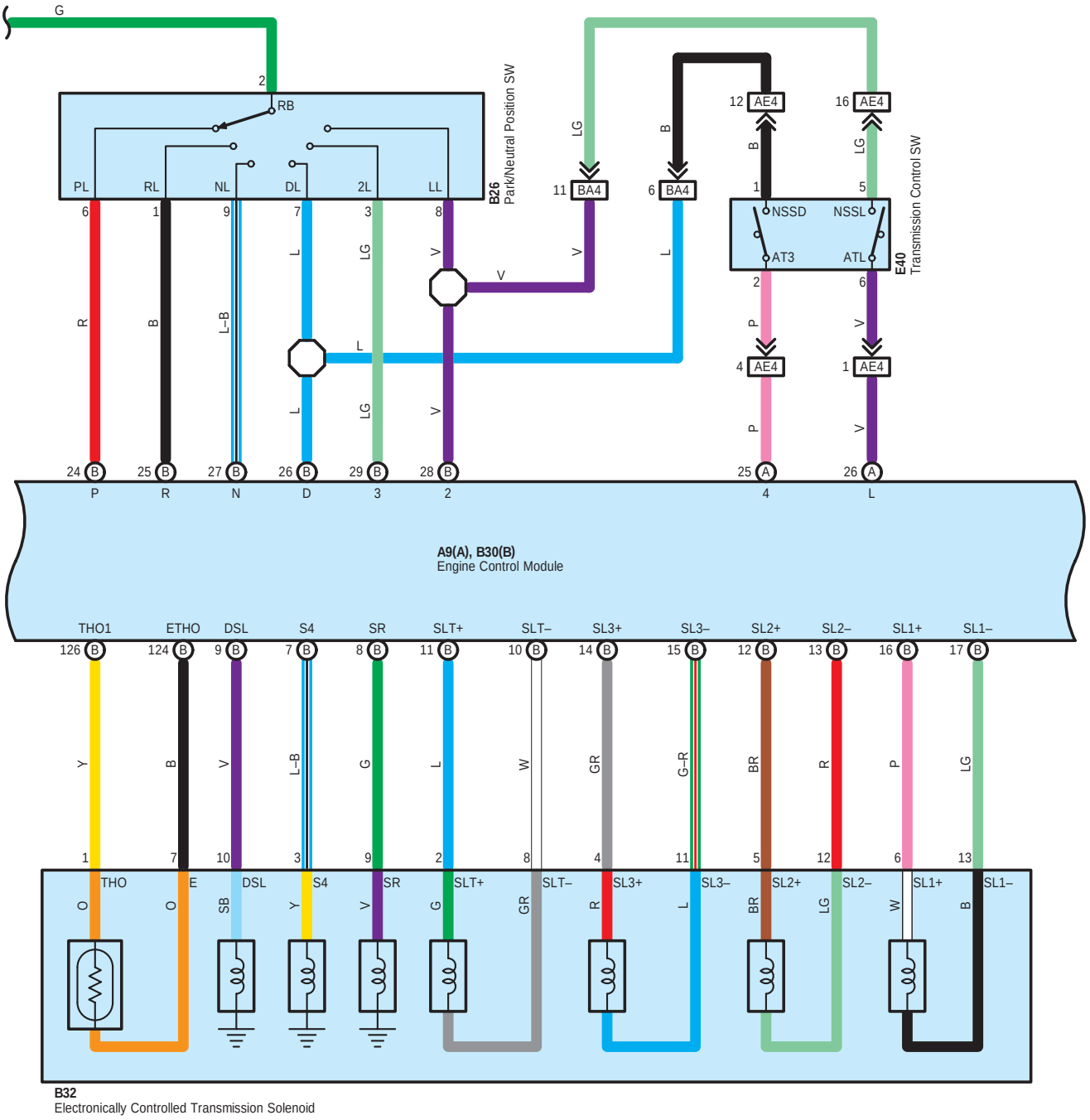
ECT and A/T Indicator for 2GR–FE



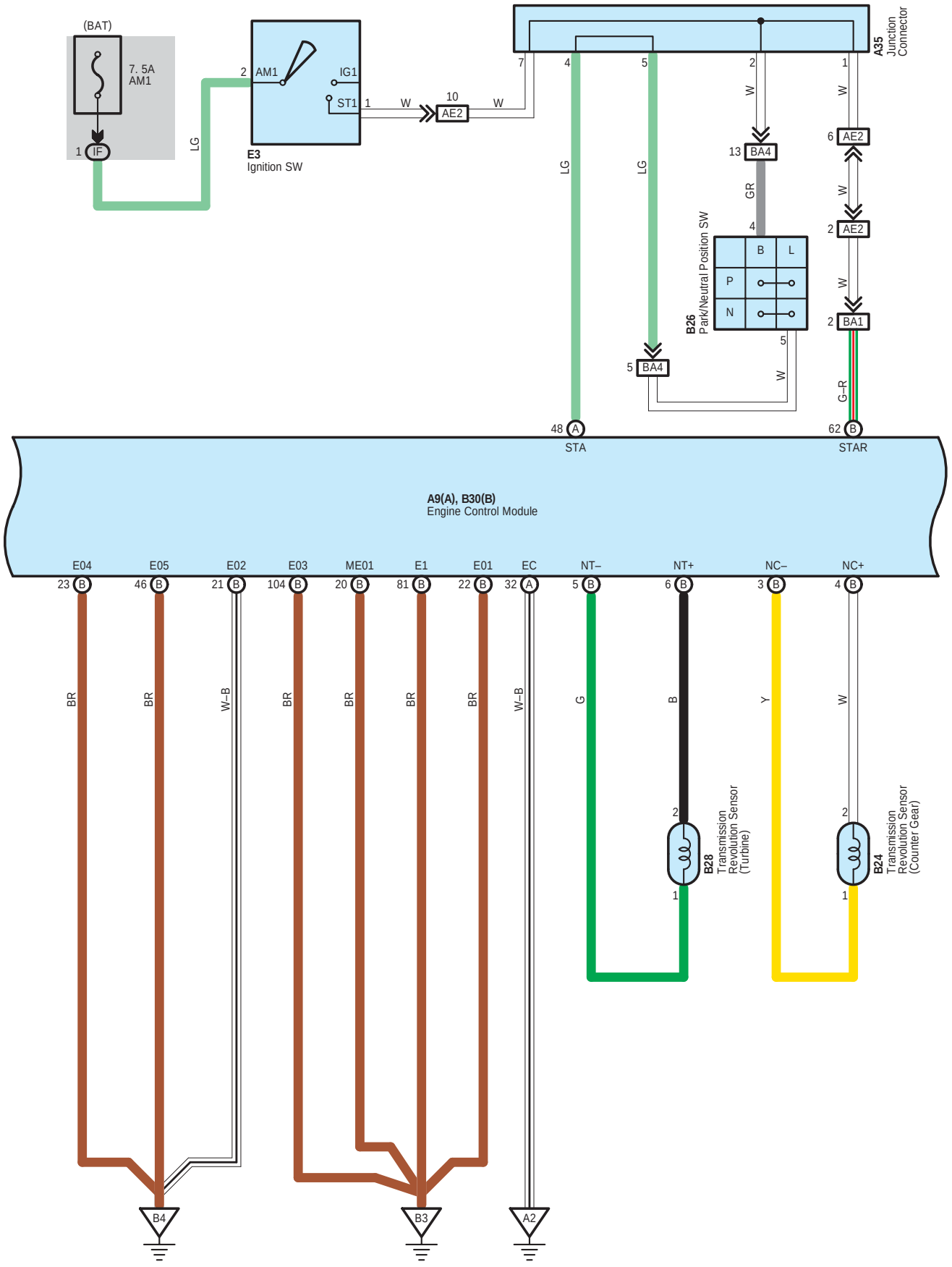
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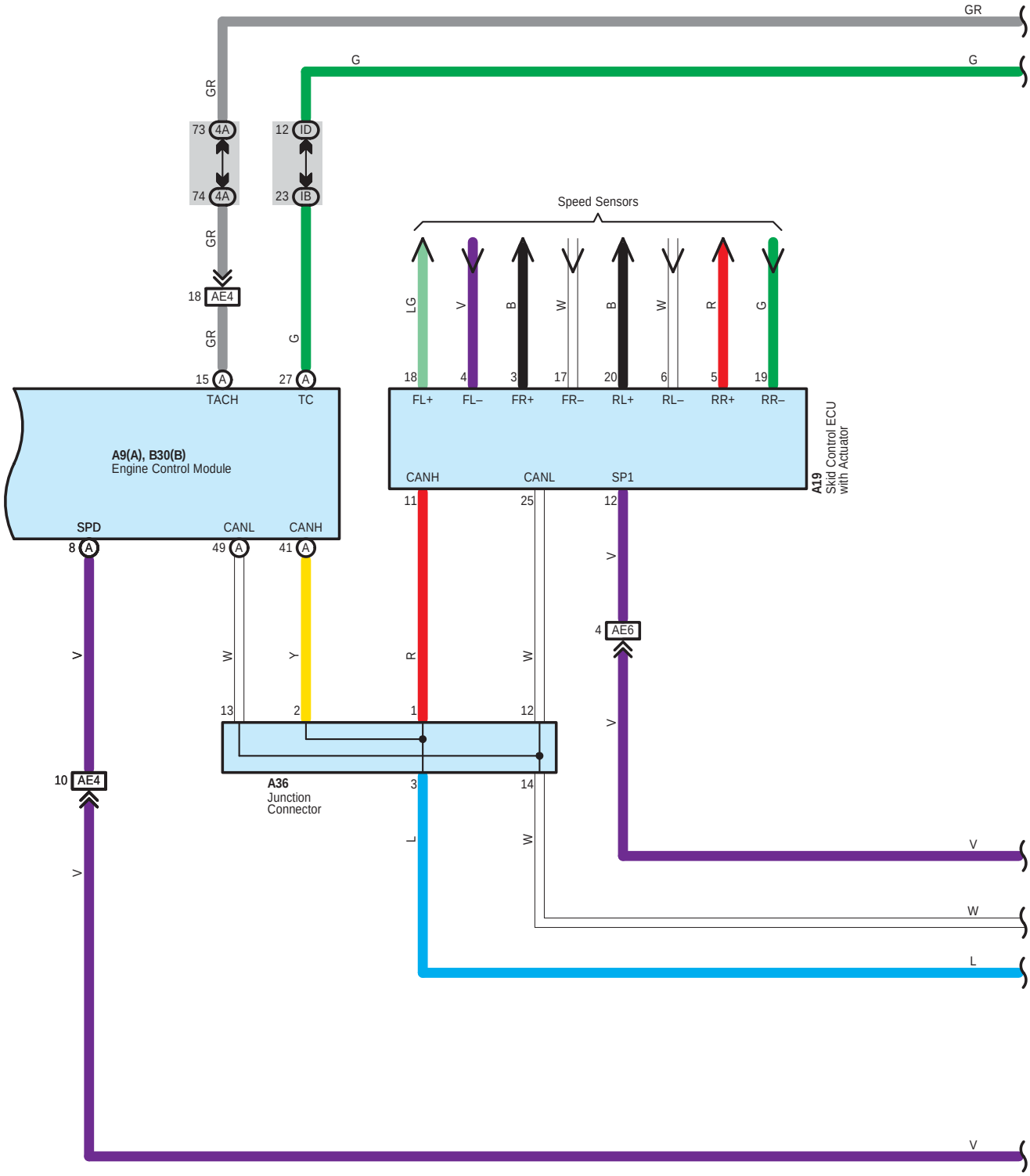


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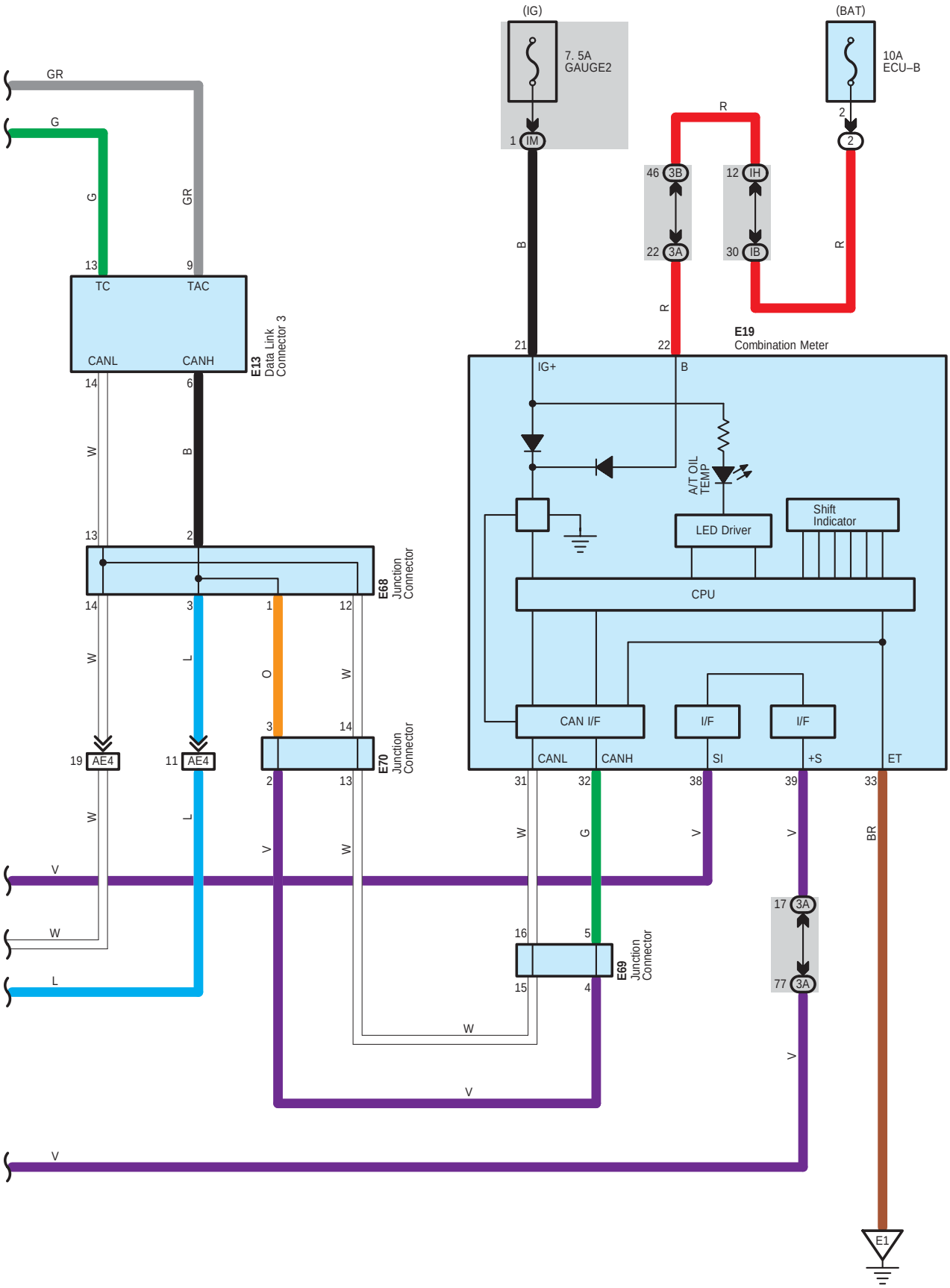


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ECT and A/T Indicator for 2GR–FE



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ECT and A/T Indicator for 2GR–FE

System Outline

1. Line Pressure Optimal Control

Through the use of the solenoid valve SLT+, the line pressure is optimally controlled in accordance with the engine torque information, as well as with the internal operating conditions of the torque converter and the transaxle. Accordingly, the line pressure can be controlled minutely in accordance with the engine output, traveling condition, and the ATF temperature, thus realizing smooth shift characteristics and optimizing the workload in the oil pump.

2. Clutch Pressure Optimal Control

The engine control module monitors the signals from various types of sensor such as the input turbine speed sensor, allowing shift solenoid valves SL1+, SL2+ and SL3+ to minutely control the clutch pressure in accordance with engine output and driving conditions. As a result, smooth shift characteristics have been realized.

3. Shifting Control in Uphill/Downhill Traveling

This control minimizes the shifting of gears when the driver operates the accelerator pedal while driving on a winding road with ups and downs, in order to ensure a smooth drive.

4. Flex Lock–Up Clutch Control

The flex lock–up clutch control operates during acceleration, in the 4th and 5th gear in the D position, and during deceleration, in the 4th and 5th gear in the D position and in the 4th gear in the 4 position.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B3	51 (2GR–FE)	E3	54
A9 A	50 (2GR–FE)	B4 A	51 (2GR–FE)	E13	54
A19	50 (2GR–FE)	B24	51 (2GR–FE)	E19	54
A35	56	B26	51 (2GR–FE)	E40	55
A36	56	B28	51 (2GR–FE)	E68	55
A38	56	B30 B	51 (2GR–FE)	E69	55
B1	51 (2GR–FE)	B32	51 (2GR–FE)	E70	55

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IH		
IM	31	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE4		
AE6		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA4		

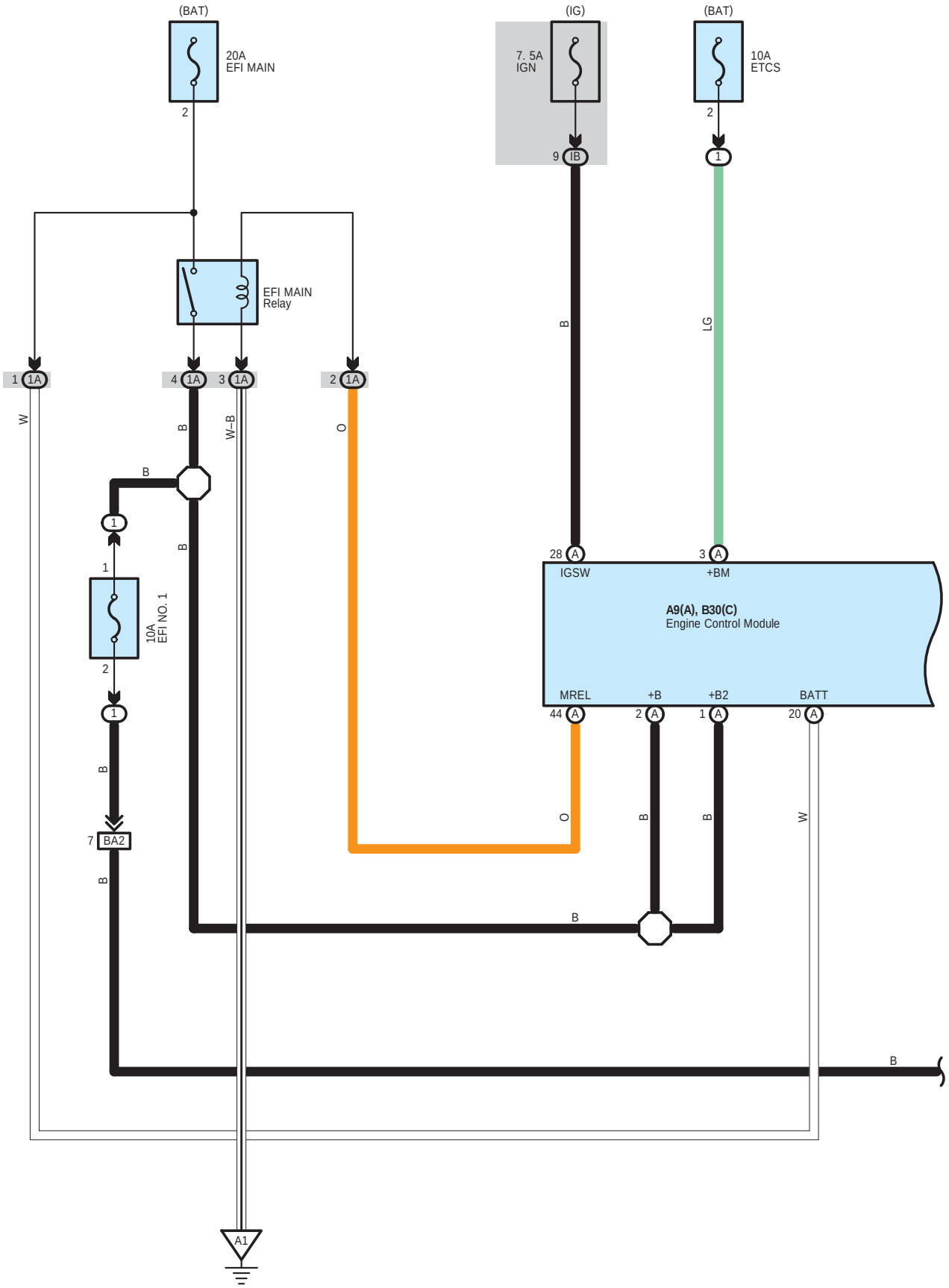
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▽ : **Ground Points**

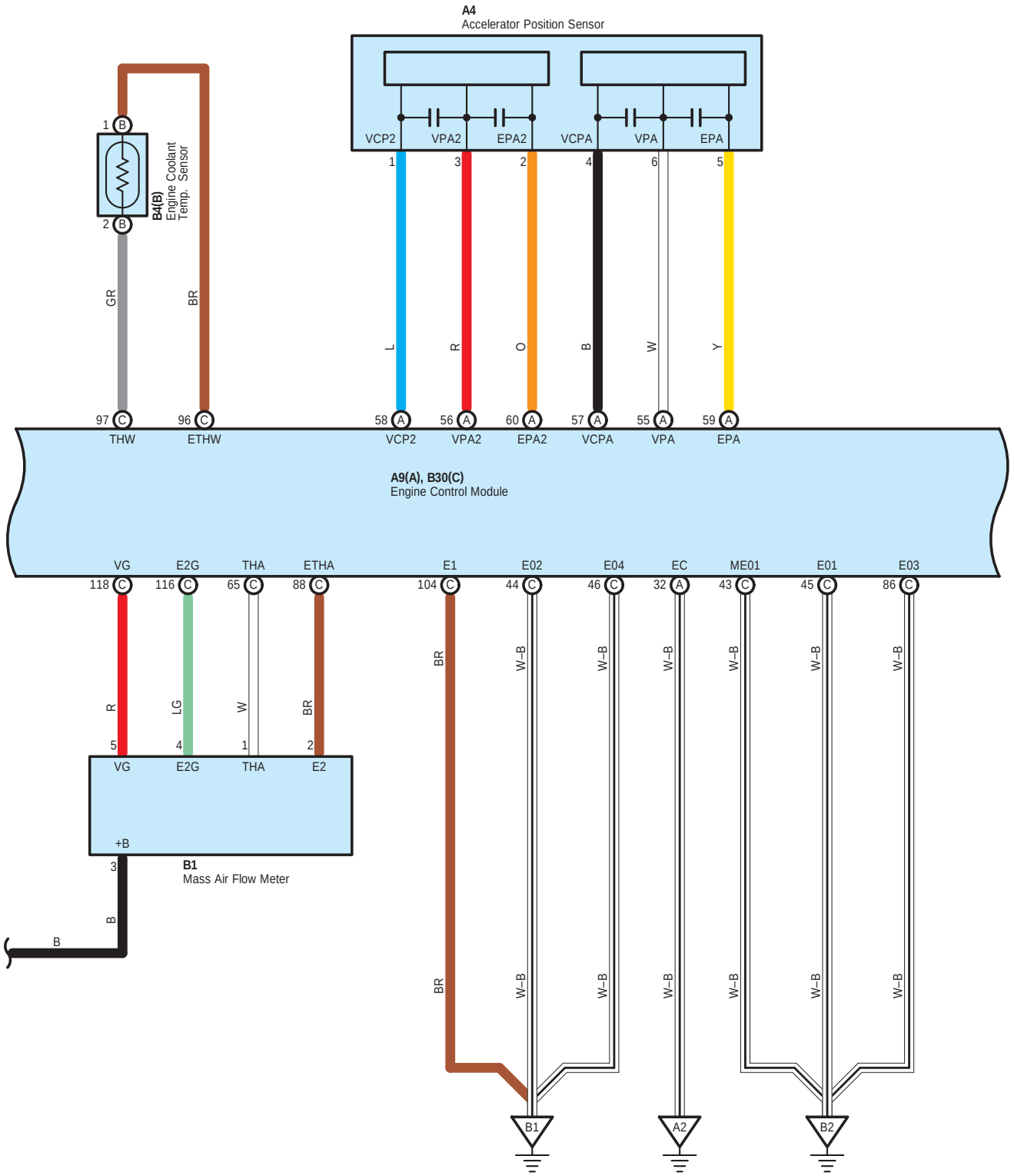
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
B3	64 (2GR–FE)	Left Side of the Cylinder Head
B4		
E1	66	Left Kick Panel

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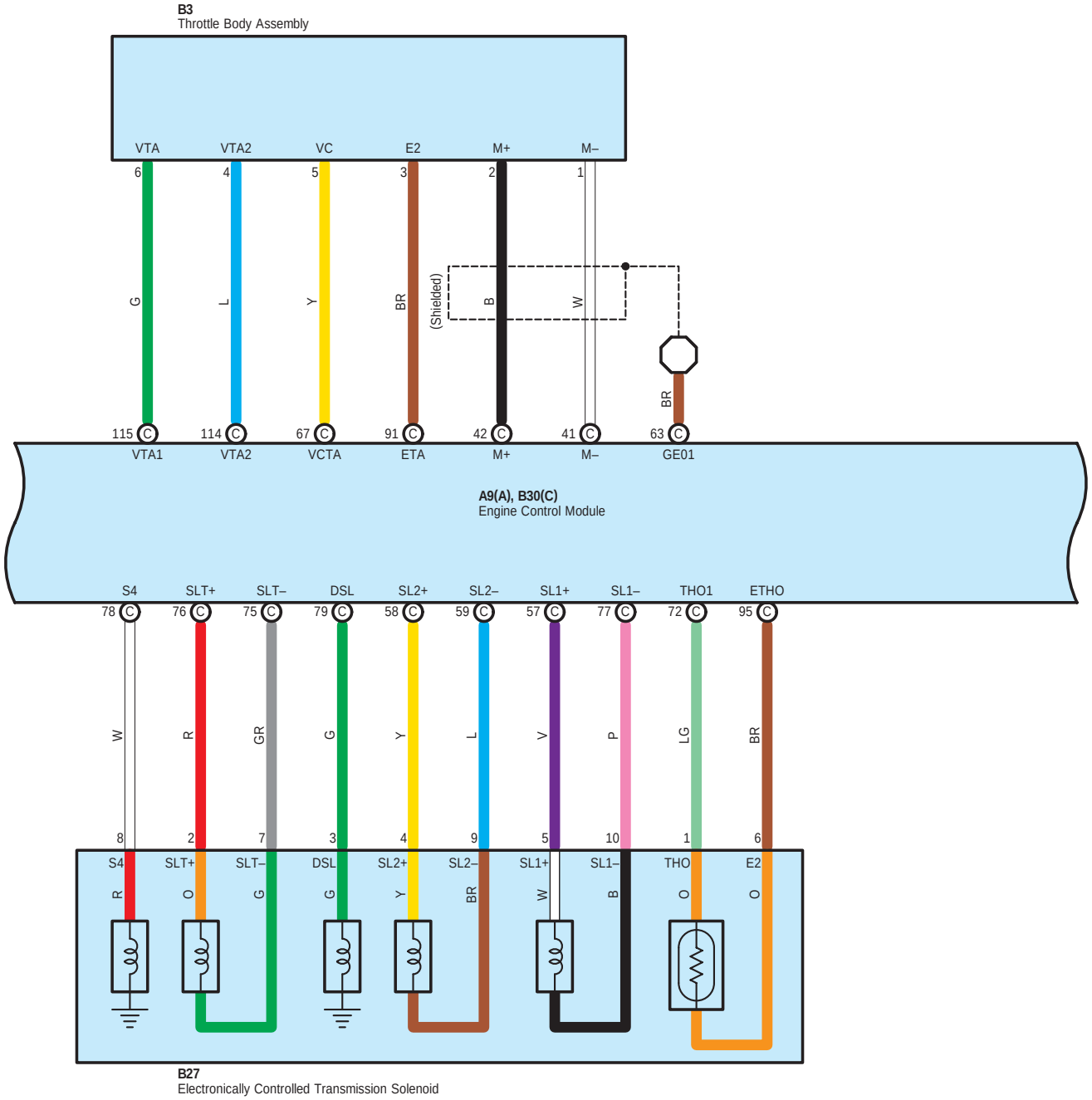
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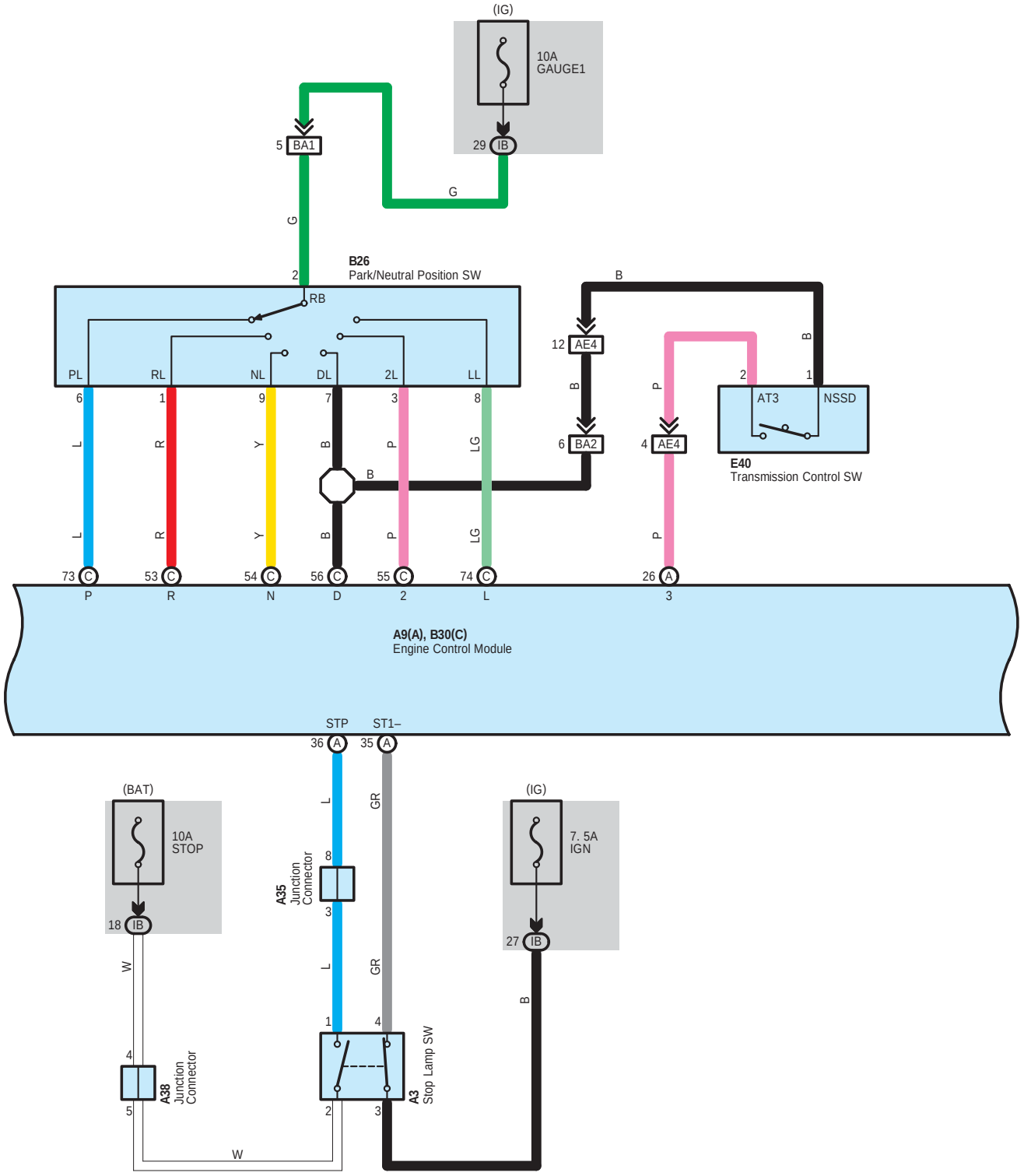
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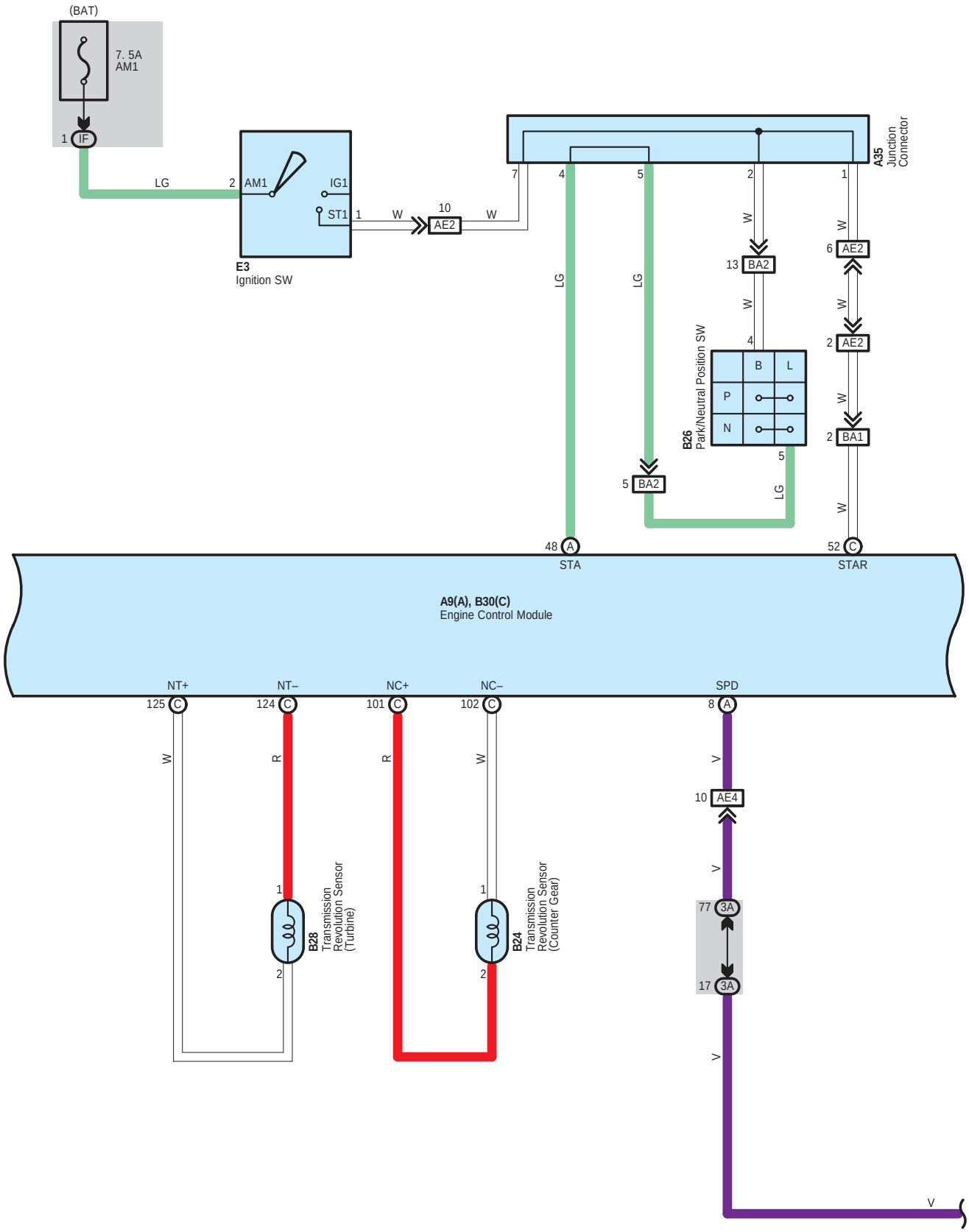
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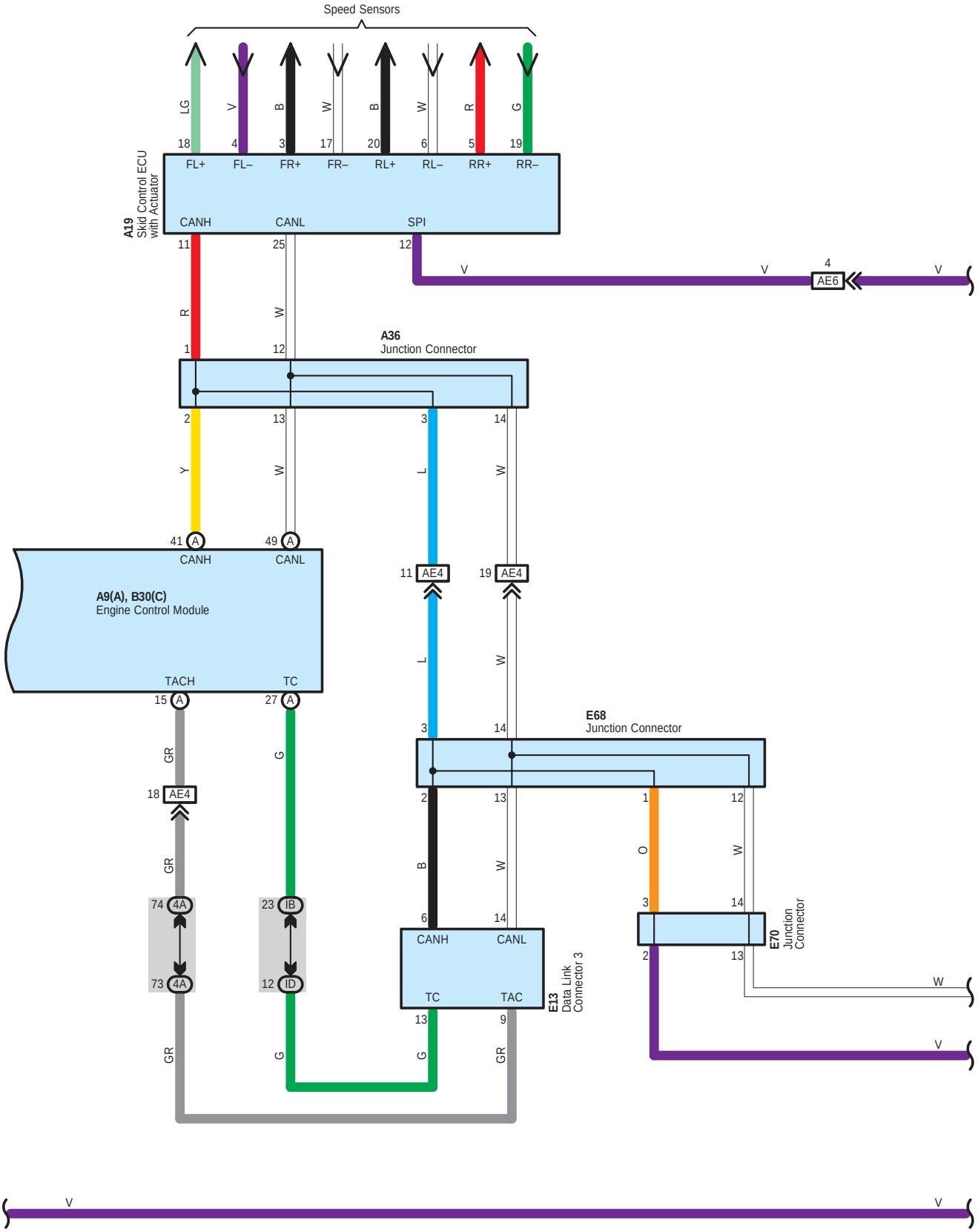
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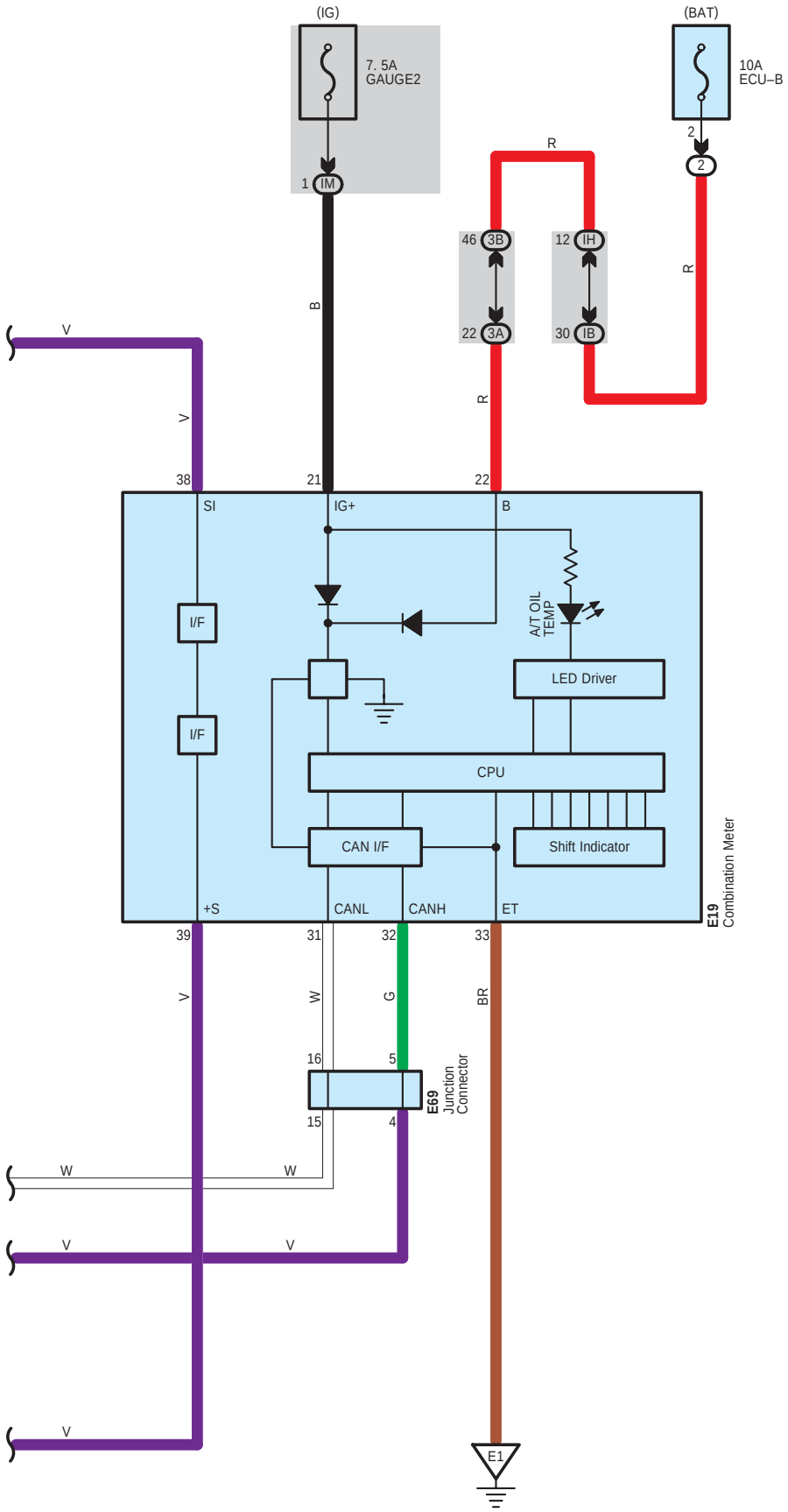


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ECT and A/T Indicator for 2AZ–FE



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System Outline

Previous automatic transaxle have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock–up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock–up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

During driving the engine warm up condition signal is input from engine coolant temp. sensor to TERMINAL THW of the engine control module, and the vehicle speed signal is input from the speed sensor to skid control ECU with actuator, and are sent to the engine control module through communication control. At the same time, the throttle valve opening signal is sent from the throttle position sensor to the TERMINALS VTA1 and VTA2 of the engine control module, as the throttle angle signal.

2. Lock–Up Operation

When the engine control module decides based on each signal that the lock–up condition has been met, the current flows through TERMINAL DSL of the engine control module to TERMINAL 3 of the electronically controlled transmission solenoid to GROUND.

3. Stop Lamp SW Circuit

If the brake pedal is depressed (Stop lamp SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock–up.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B3	53 (2AZ–FE)	E13	54
A4	56	B4 B	53 (2AZ–FE)	E19	54
A9 A	52 (2AZ–FE)	B24	53 (2AZ–FE)	E40	55
A19	52 (2AZ–FE)	B26	53 (2AZ–FE)	E68	55
A35	56	B27	53 (2AZ–FE)	E69	55
A36	56	B28	53 (2AZ–FE)	E70	55
A38	56	B30 C	53 (2AZ–FE)		
B1	53 (2AZ–FE)	E3	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	23 (2AZ–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	27 (2AZ–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IH		
IM	31	

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: **Connector Joining Wire Harness and Wire Harness**

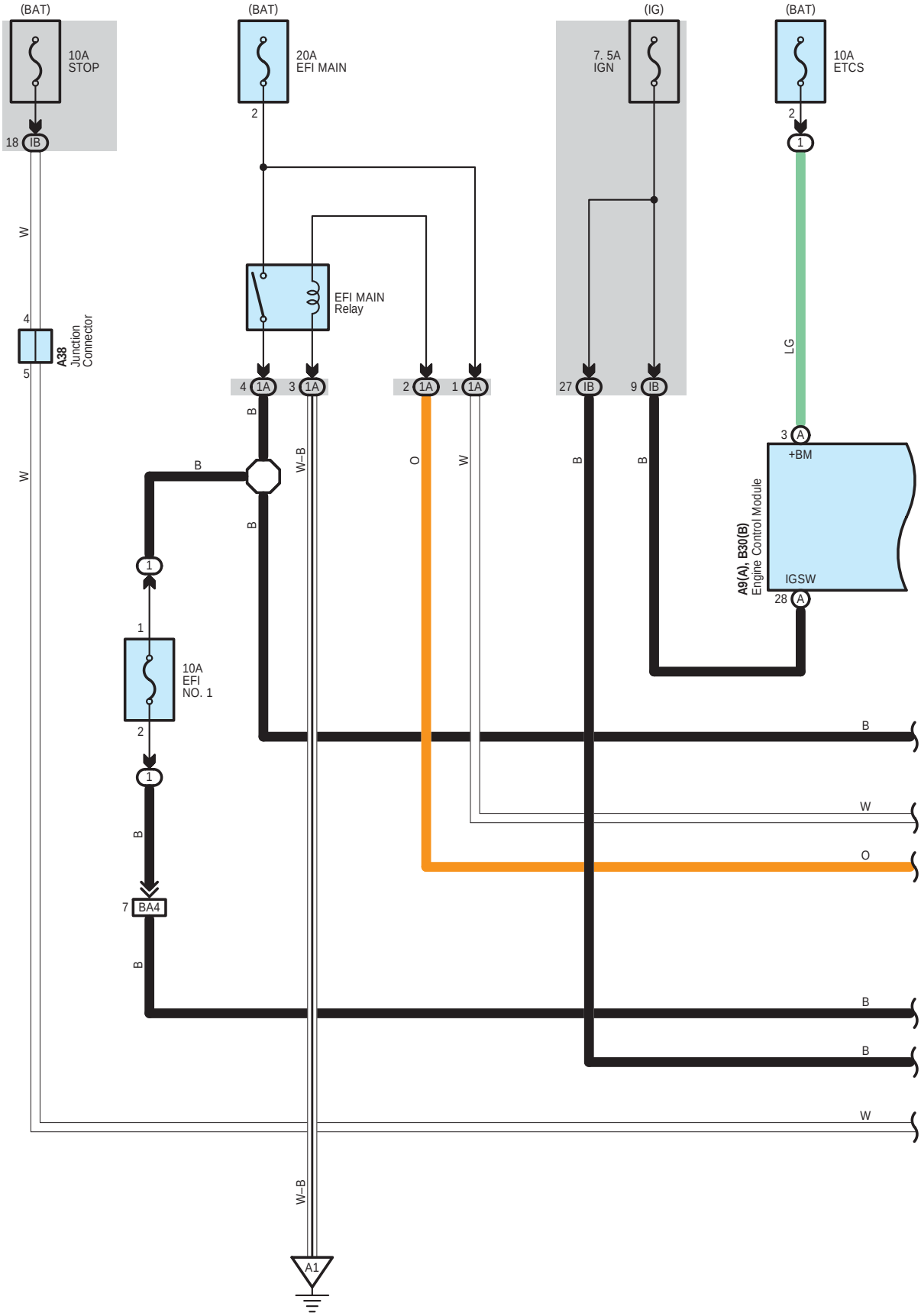
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE4		
AE6		
BA1	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA2		

: **Ground Points**

Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
A2		
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
E1	66	Left Kick Panel

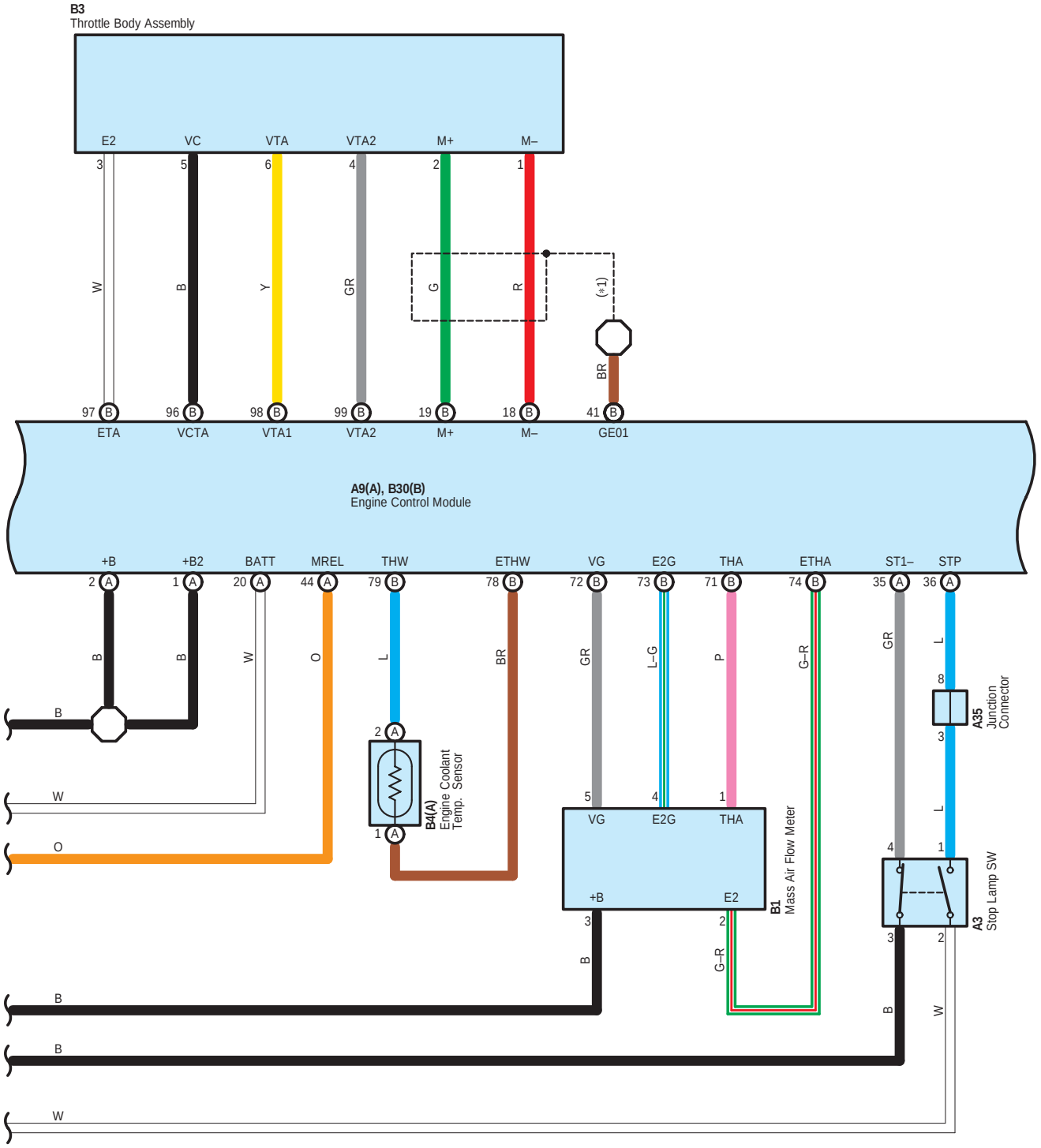
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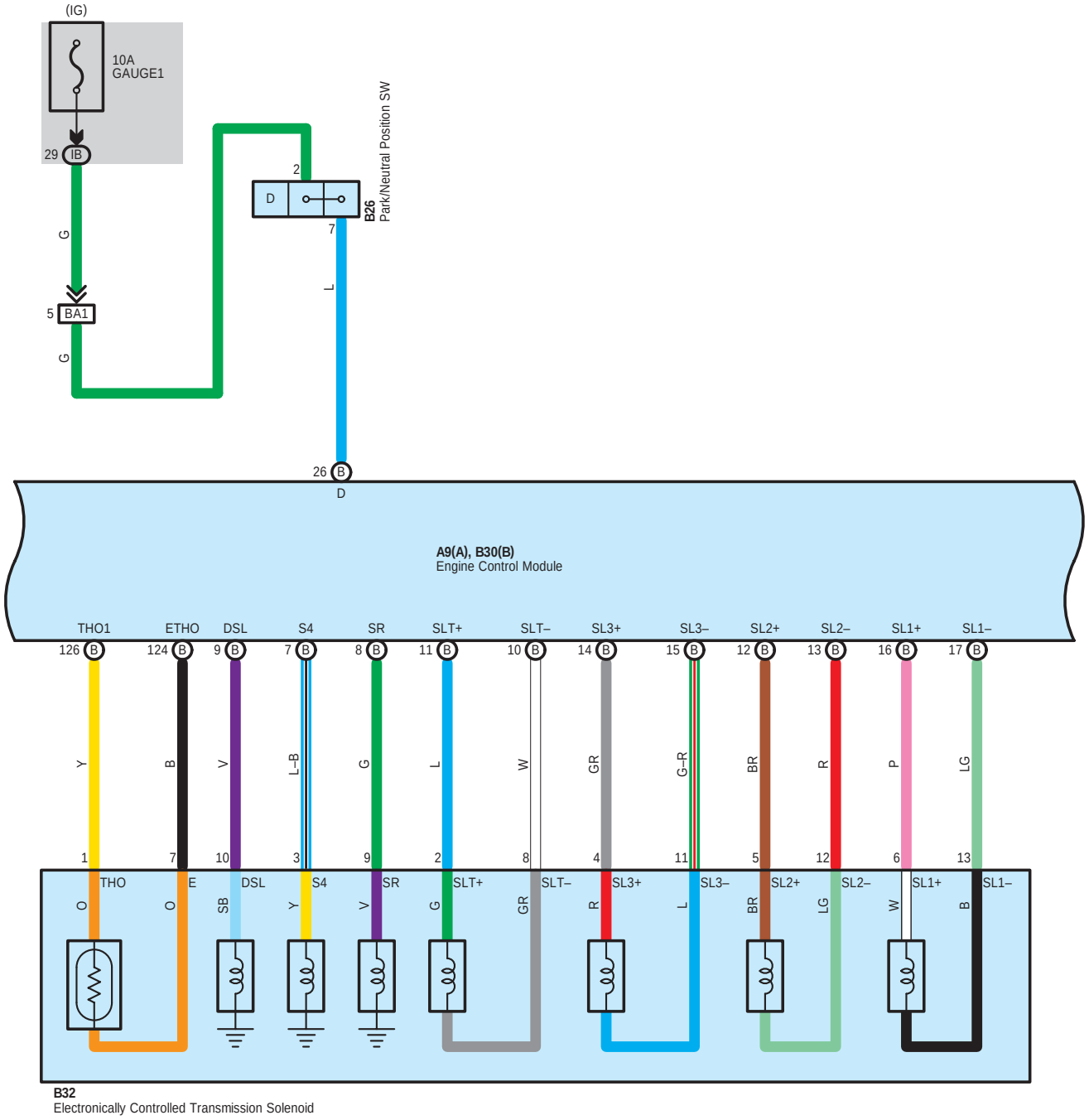


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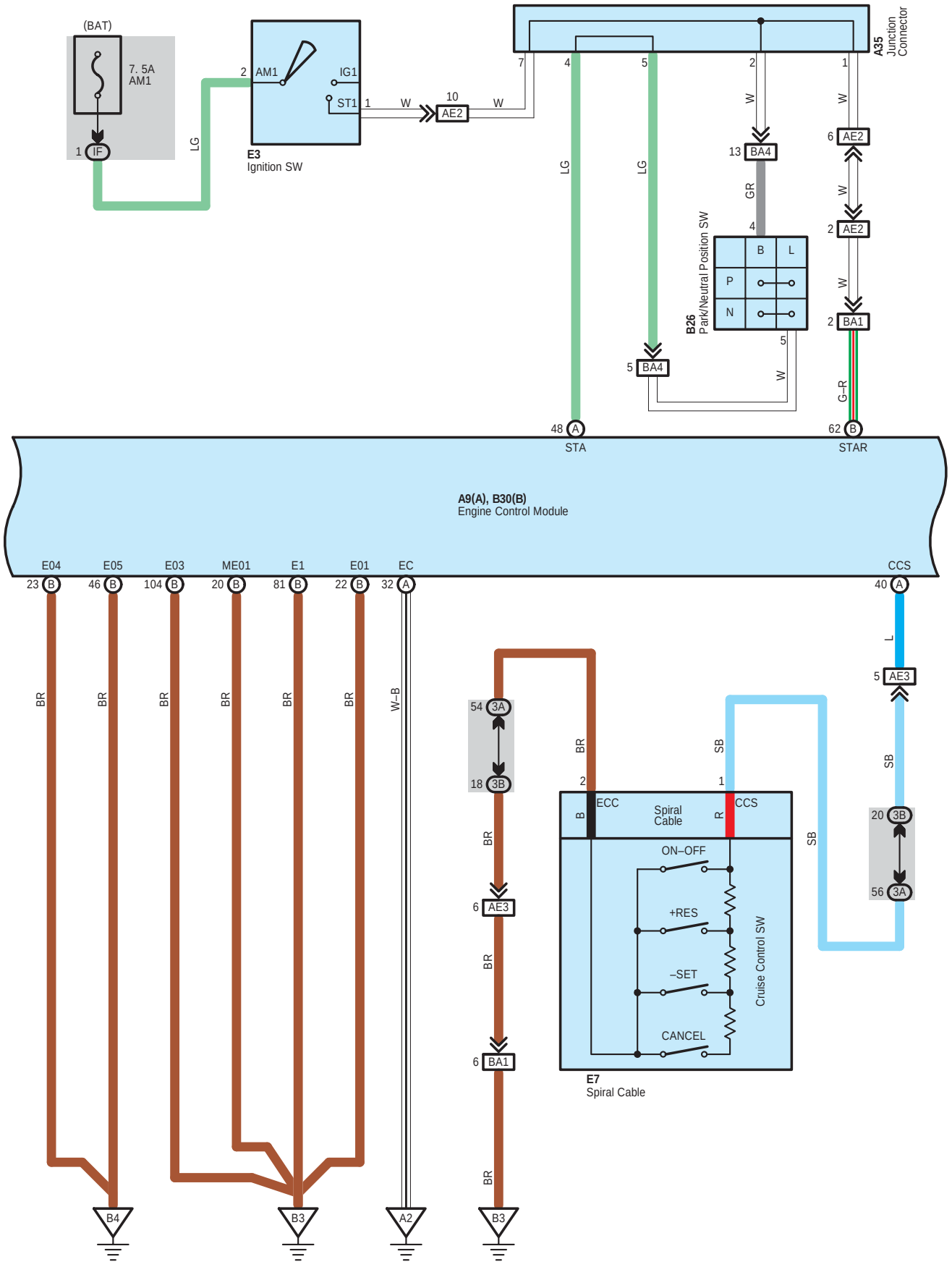
∗ 1 : Shielded



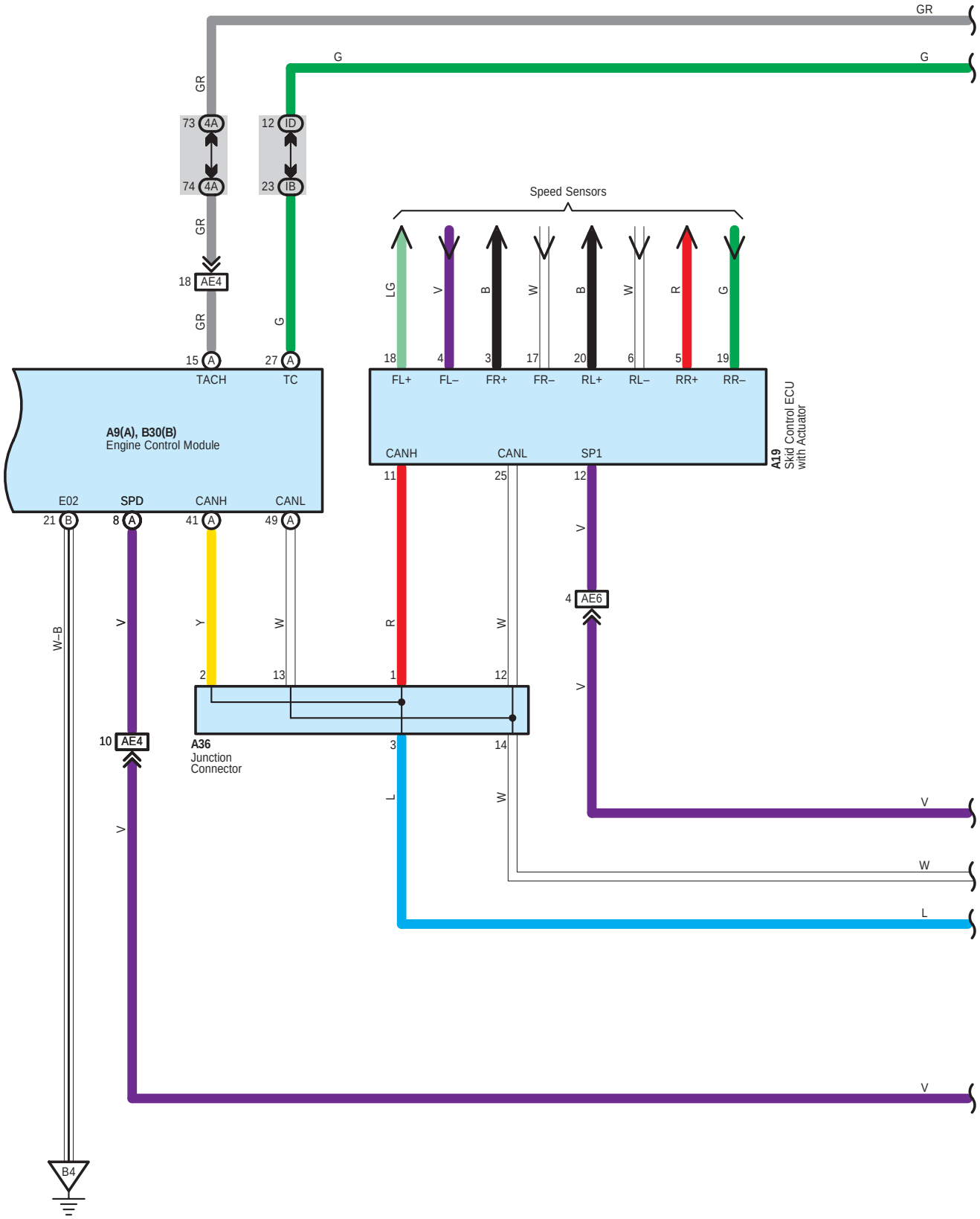
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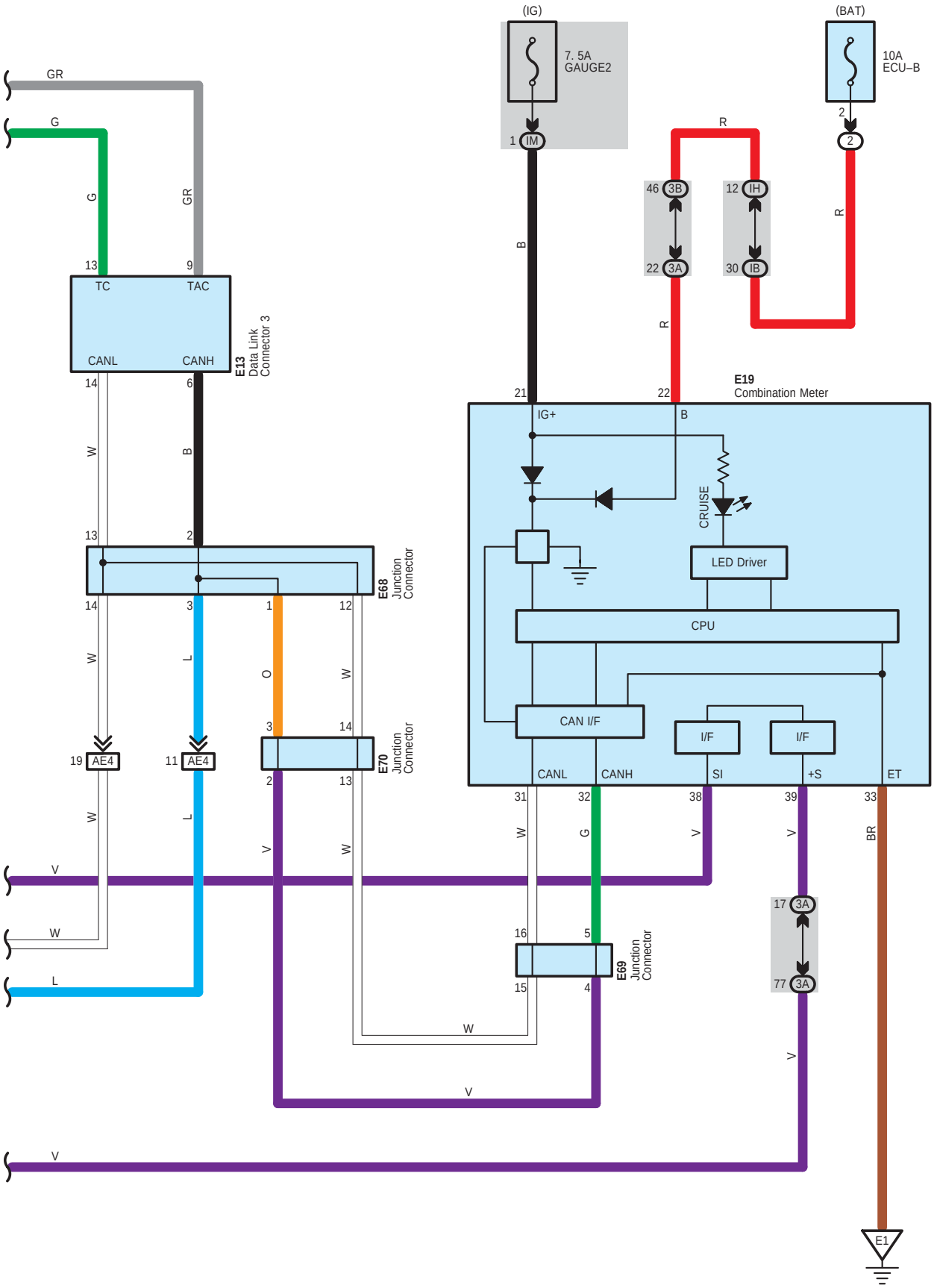
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System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel pedal.

1. Set Control

When the –SET switch is turned from ON to OFF during driving with the main switch ON, the vehicle speed at that time is registered and the vehicle is controlled at that constant speed.

2. Coast Control

When the –SET switch is kept ON during driving with the cruise control, the cruise control required opening gets zero to reduce the vehicle speed. If the SET/COAST switch is turned OFF, the vehicle speed at that time is registered and the vehicle is controlled at the constant speed.

3. Tap Up Control

Whenever +RES switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed increases by about 1.6 km/h.

4. Tap Down Control

Whenever the –SET switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed decreased by about 1.6 km/h.

5. Accel Control

When +RES switch kept ON during driving with the cruise control, the engine control module controls the throttle valve to accelerate the vehicle.
It also registers the vehicle speed when +RES switch is turned OFF and controls the vehicle at the constant speed.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.
* The stop lamp SW is turned on.
* The CANCEL SW is turned on.
* The ON–OFF SW is turned off.
* Gear is shifted from D position to other positions than D.

7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.
* The stop light SW wiring is faulty or short–circuited.
* The vehicle speed signal is faulty.
* The electronically controlled throttle malfunctions.

8. Other Cancel Function

If any operate VSC system the cruise control is cancelled.

9. Overdrive Control Function

The overdrive control may be cancelled if the vehicle travels on the slope during cruise control travelling. After the overdrive control has been cancelled, when climbing hill is judged to finish from throttle opening information, the vehicle returns to the overdrive control mode again after the overdrive return timer is completed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B3	51 (2GR–FE)	E13	54
A9 A	50 (2GR–FE)	B4 A	51 (2GR–FE)	E19	54
A19	50 (2GR–FE)	B26	51 (2GR–FE)	E68	55
A35	56	B30 B	51 (2GR–FE)	E69	55
A36	56	B32	51 (2GR–FE)	E70	55
A38	56	E3	54		
B1	51 (2GR–FE)	E7	54		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)

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: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IH		
IM	31	

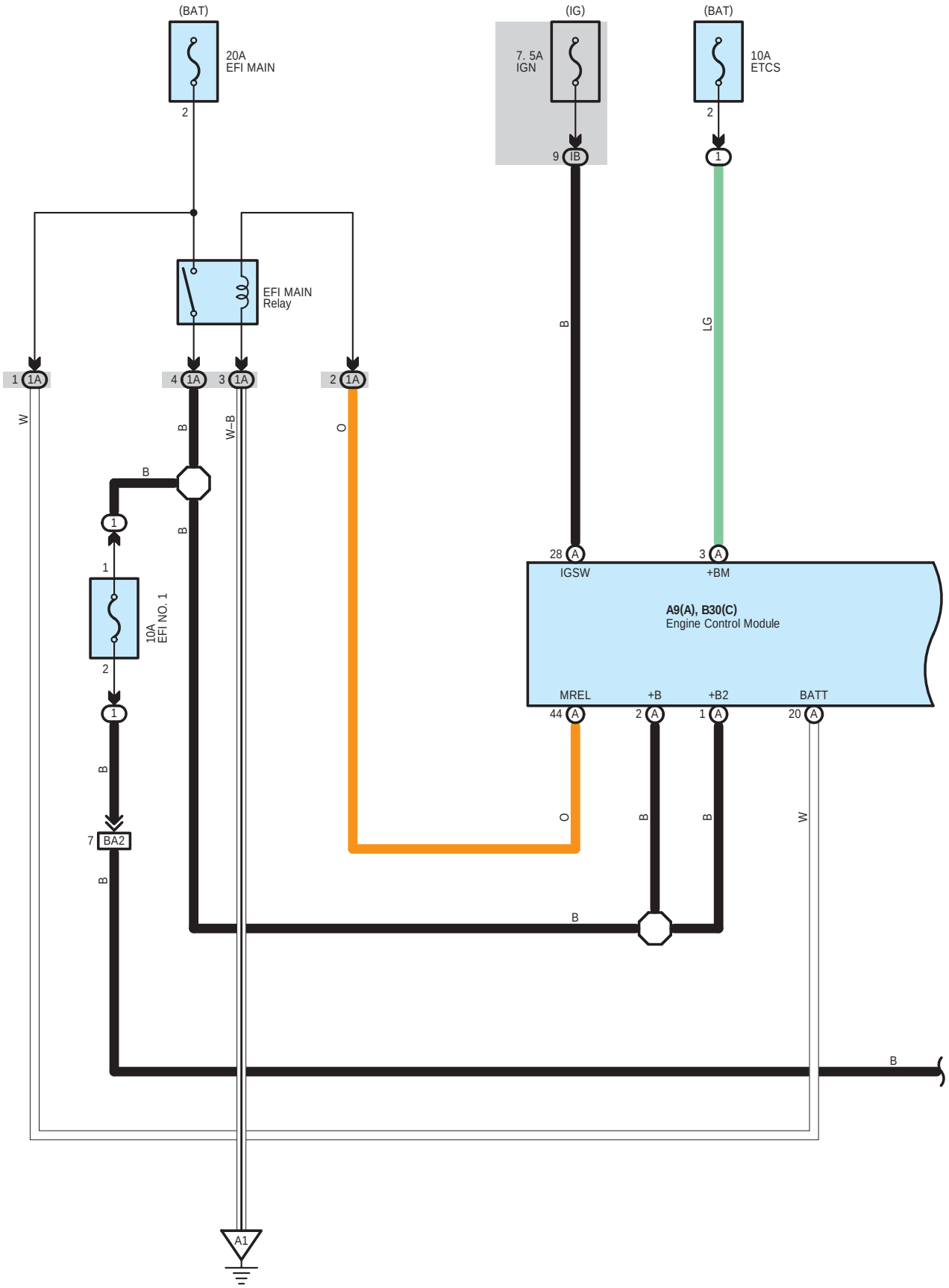
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE3		
AE4		
AE6		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA4		

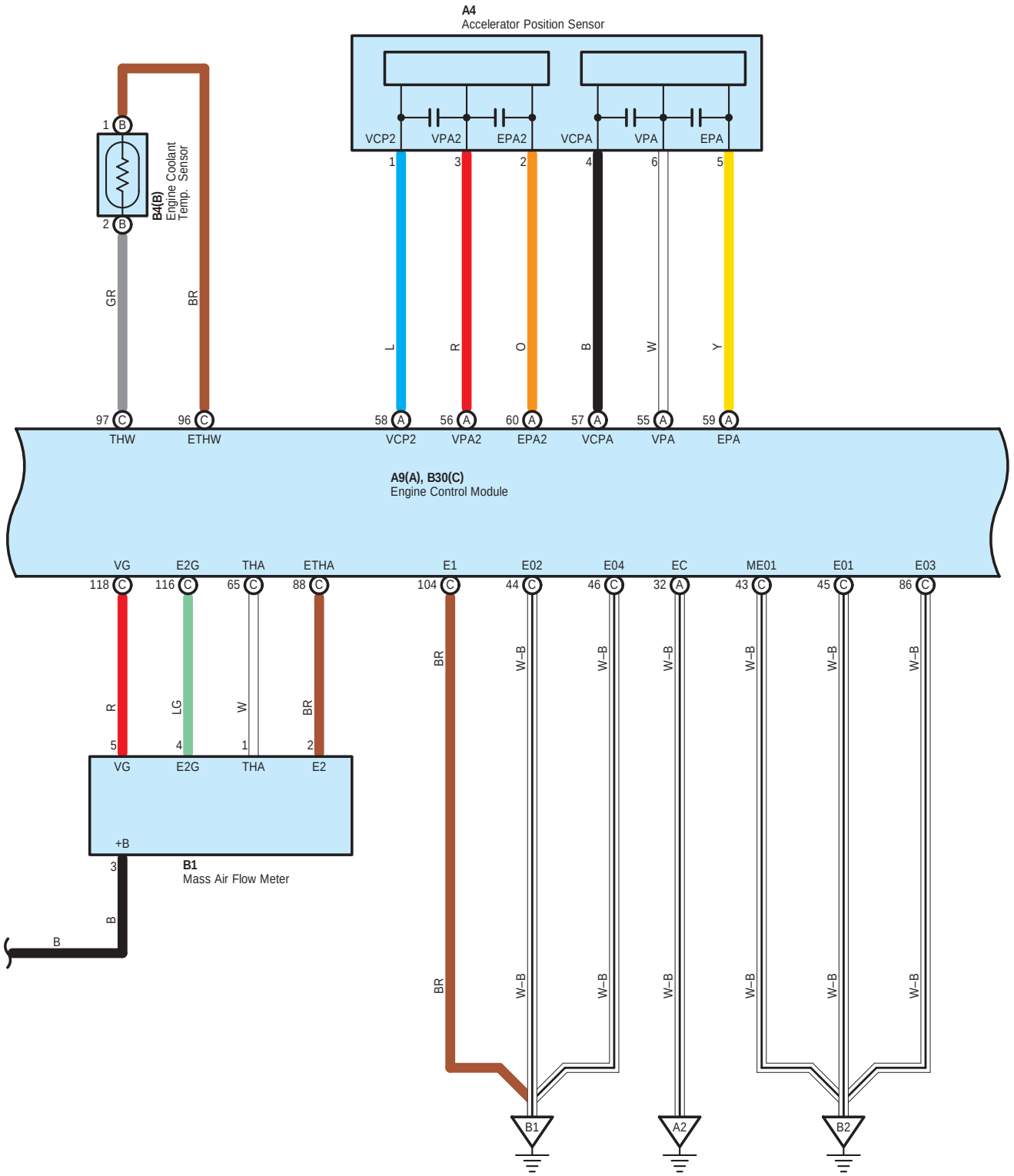
: **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
B3	64 (2GR–FE)	Left Side of the Cylinder Head
B4		
E1	66	Left Kick Panel

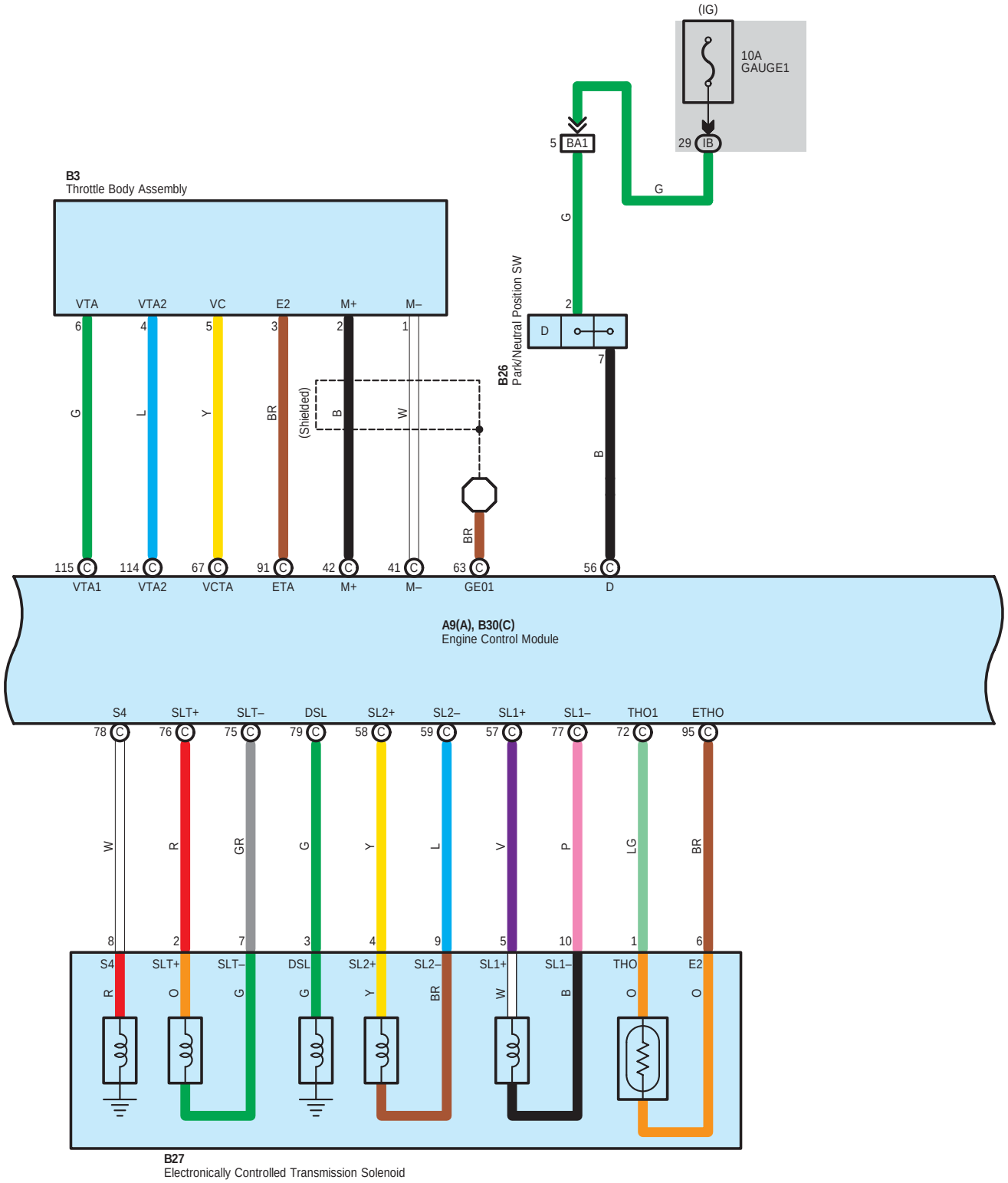
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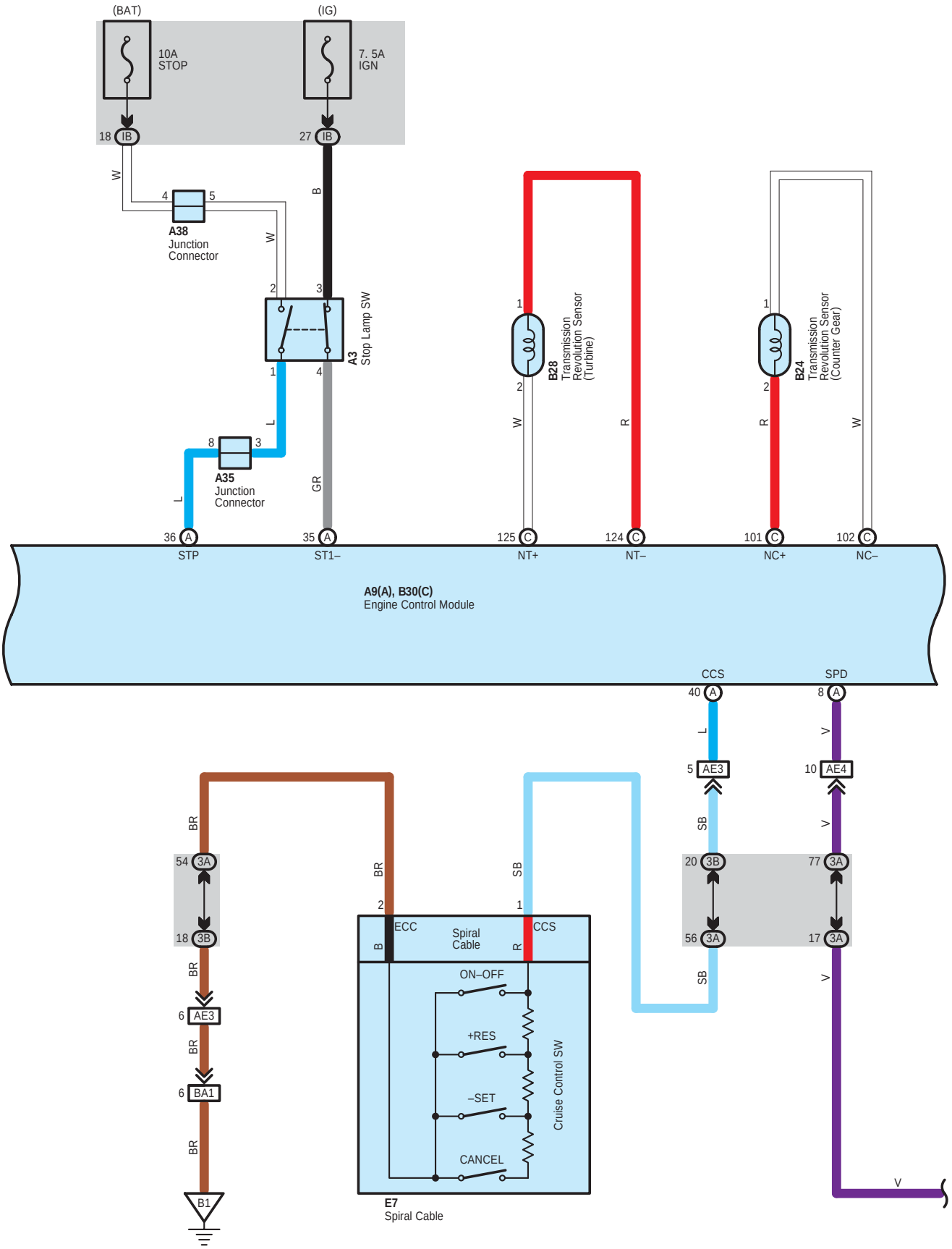
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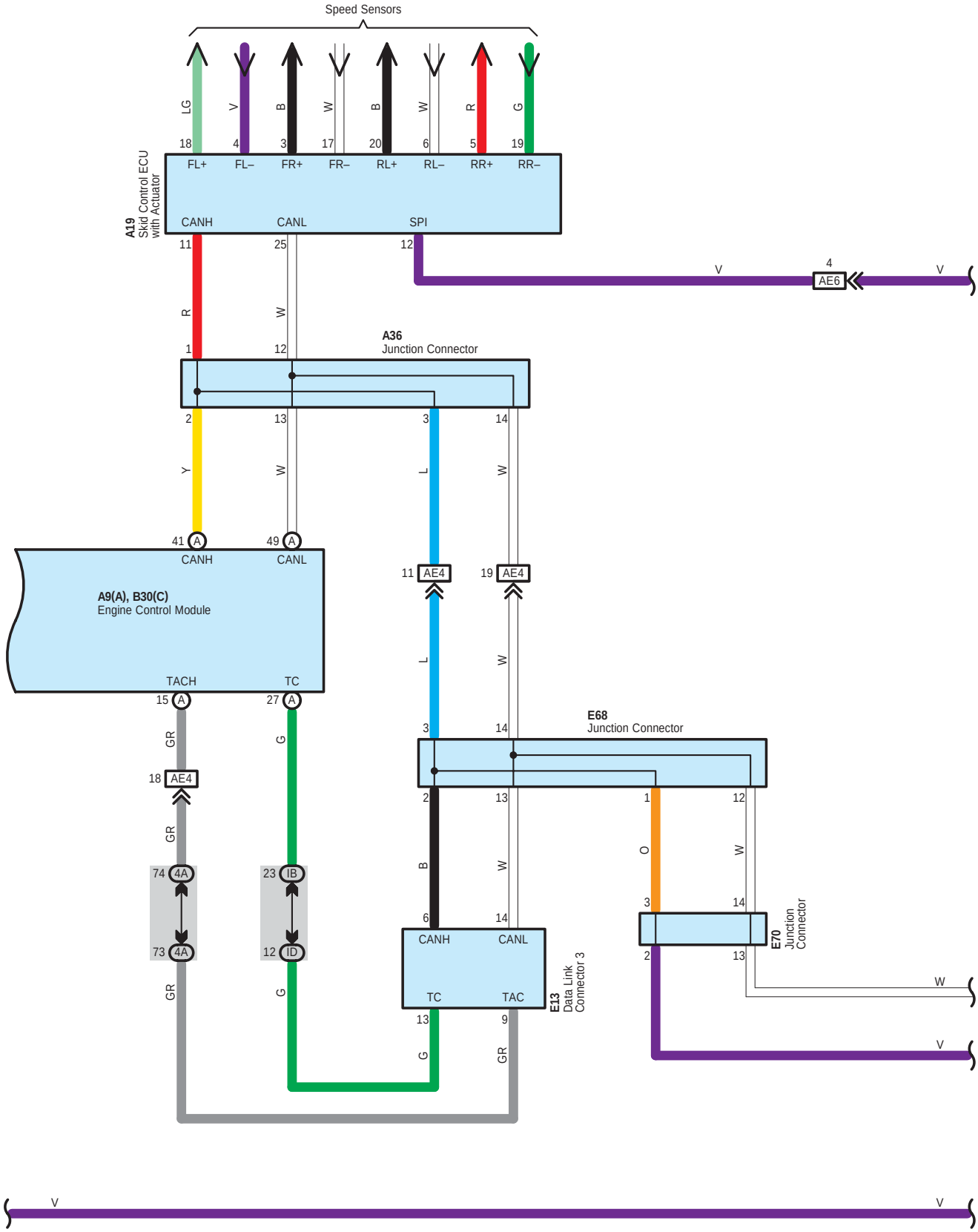
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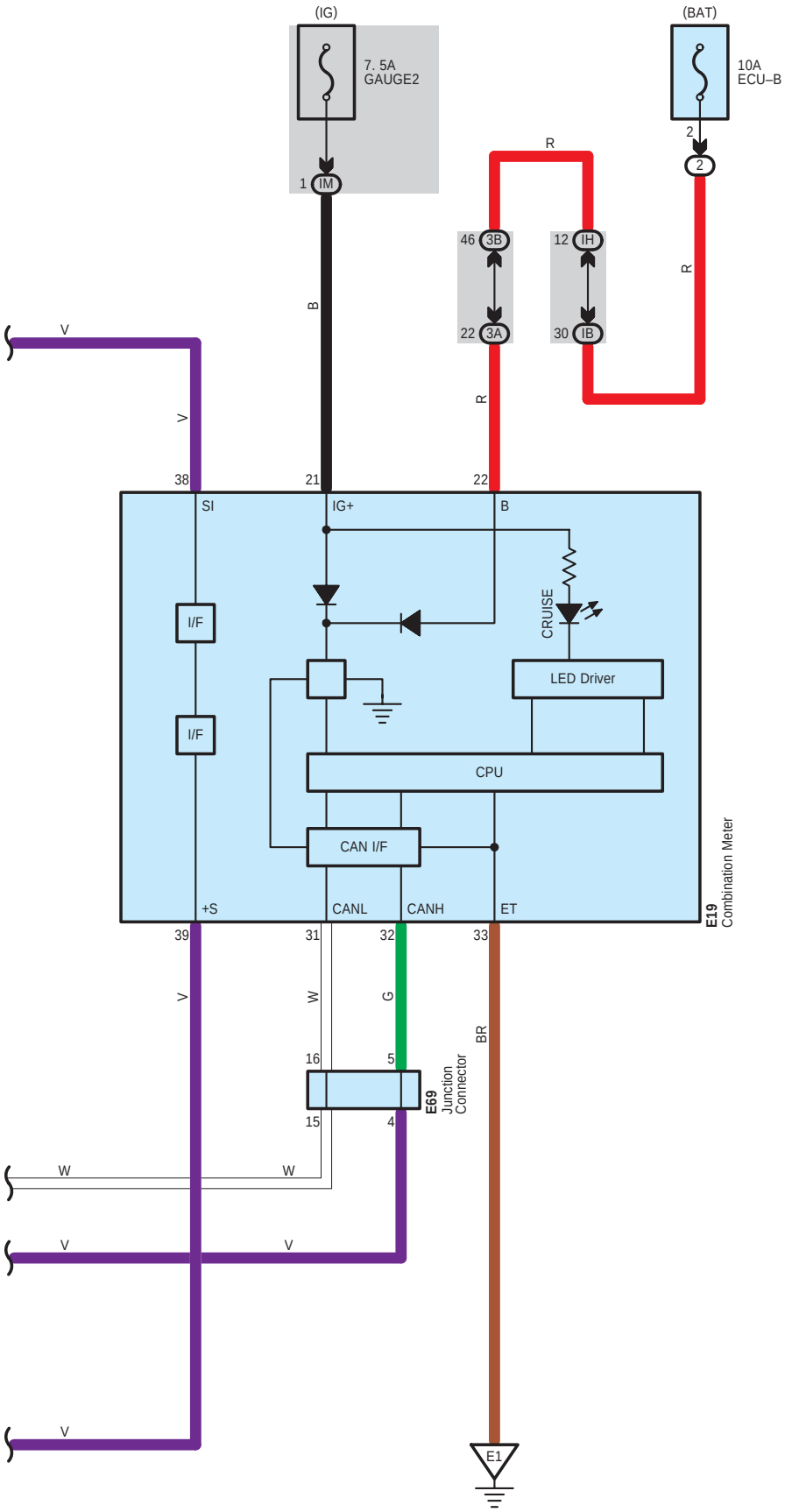
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System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel pedal.

1. Set Control

When the –SET switch is turned from ON to OFF during driving with the main switch ON, the vehicle speed at that time is registered and the vehicle is controlled at that constant speed.

2. Coast Control

When the –SET switch is kept ON during driving with the cruise control, the cruise control required opening gets zero to reduce the vehicle speed. If the SET/COAST switch is turned OFF, the vehicle speed at that time is registered and the vehicle is controlled at the constant speed.

3. Tap Up Control

Whenever +RES switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed increases by about 1.6 km/h.

4. Tap Down Control

Whenever the –SET switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed decreased by about 1.6 km/h.

5. Accel Control

When +RES switch kept ON during driving with the cruise control, the engine control module controls the throttle valve to accelerate the vehicle.
It also registers the vehicle speed when +RES switch is turned OFF and controls the vehicle at the constant speed.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.
- The stop lamp SW is turned on.
- The CANCEL SW is turned on.
- The ON–OFF SW is turned off.
- Gear is shifted from D position to other positions than D.

7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.
- The stop light SW wiring is faulty or short–circuited.
- The vehicle speed signal is faulty.
- The electronically controlled throttle malfunctions.

8. Other Cancel Function

If any operate VSC system the cruise control is cancelled.

9. Overdrive Control Function

The overdrive control may be cancelled if the vehicle travels on the slope during cruise control travelling. After the overdrive control has been cancelled, when climbing hill is judged to finish from throttle opening information, the vehicle returns to the overdrive control mode again after the overdrive return timer is completed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B1	53 (2AZ–FE)	B30 C	53 (2AZ–FE)
A4	56	B3	53 (2AZ–FE)	E7	54
A9 A	52 (2AZ–FE)	B4 B	53 (2AZ–FE)	E13	54
A19	52 (2AZ–FE)	B24	53 (2AZ–FE)	E19	54
A35	56	B26	53 (2AZ–FE)	E68	55
A36	56	B27	53 (2AZ–FE)	E69	55
A38	56	B28	53 (2AZ–FE)	E70	55

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	23 (2AZ–FE)	Engine Room R/B No.1 (Engine Compartment Left)
2	27 (2AZ–FE)	Engine Room R/B No.2 (Engine Compartment Right)

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: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	

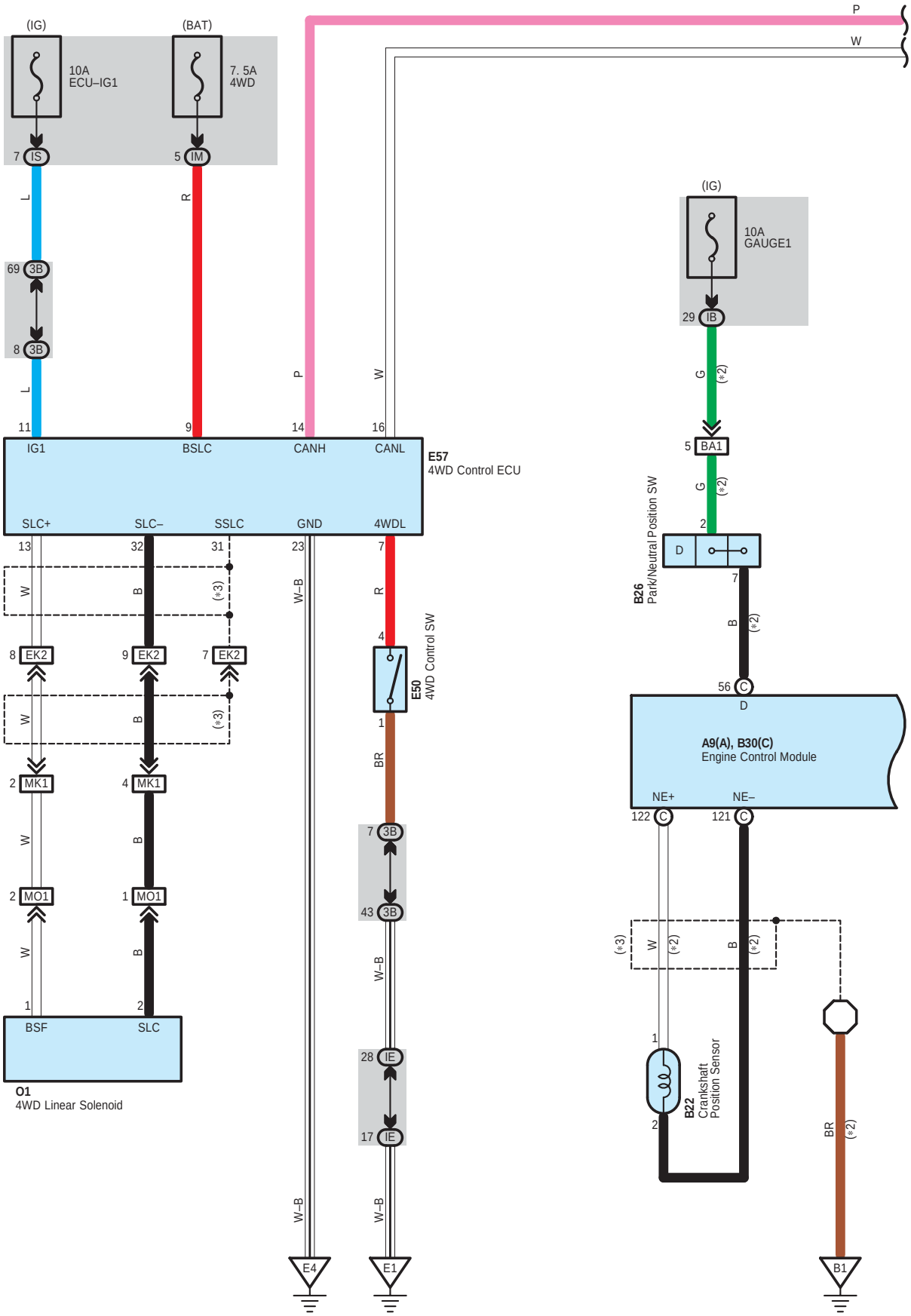
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE4		
AE6		
BA1	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA2		

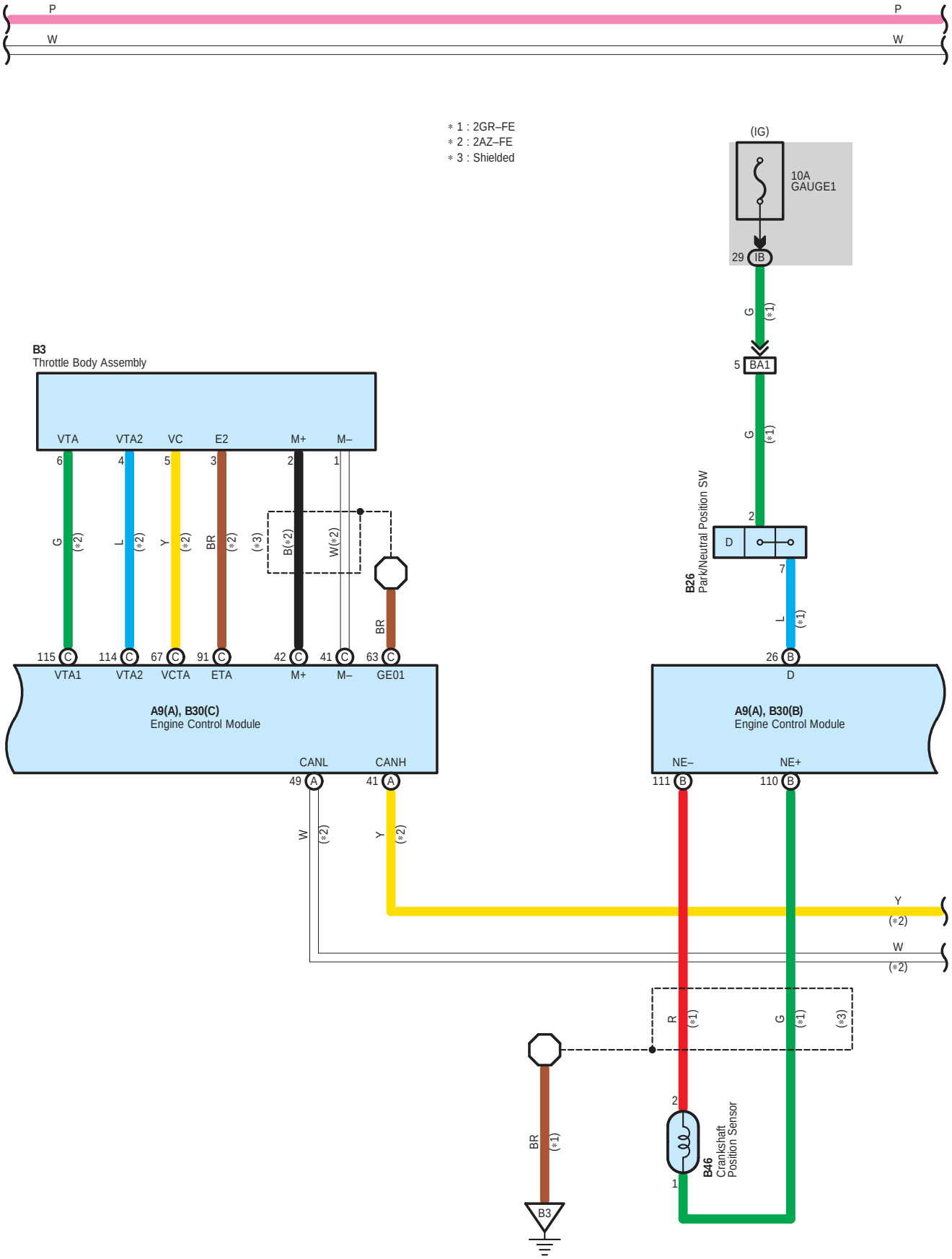
: **Ground Points**

Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
A2		
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
E1	66	Left Kick Panel

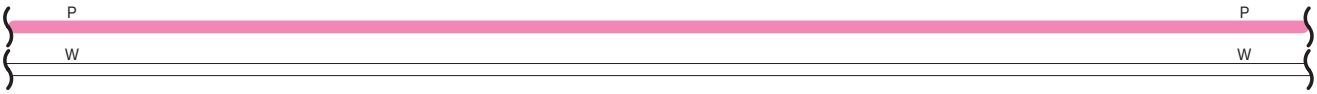
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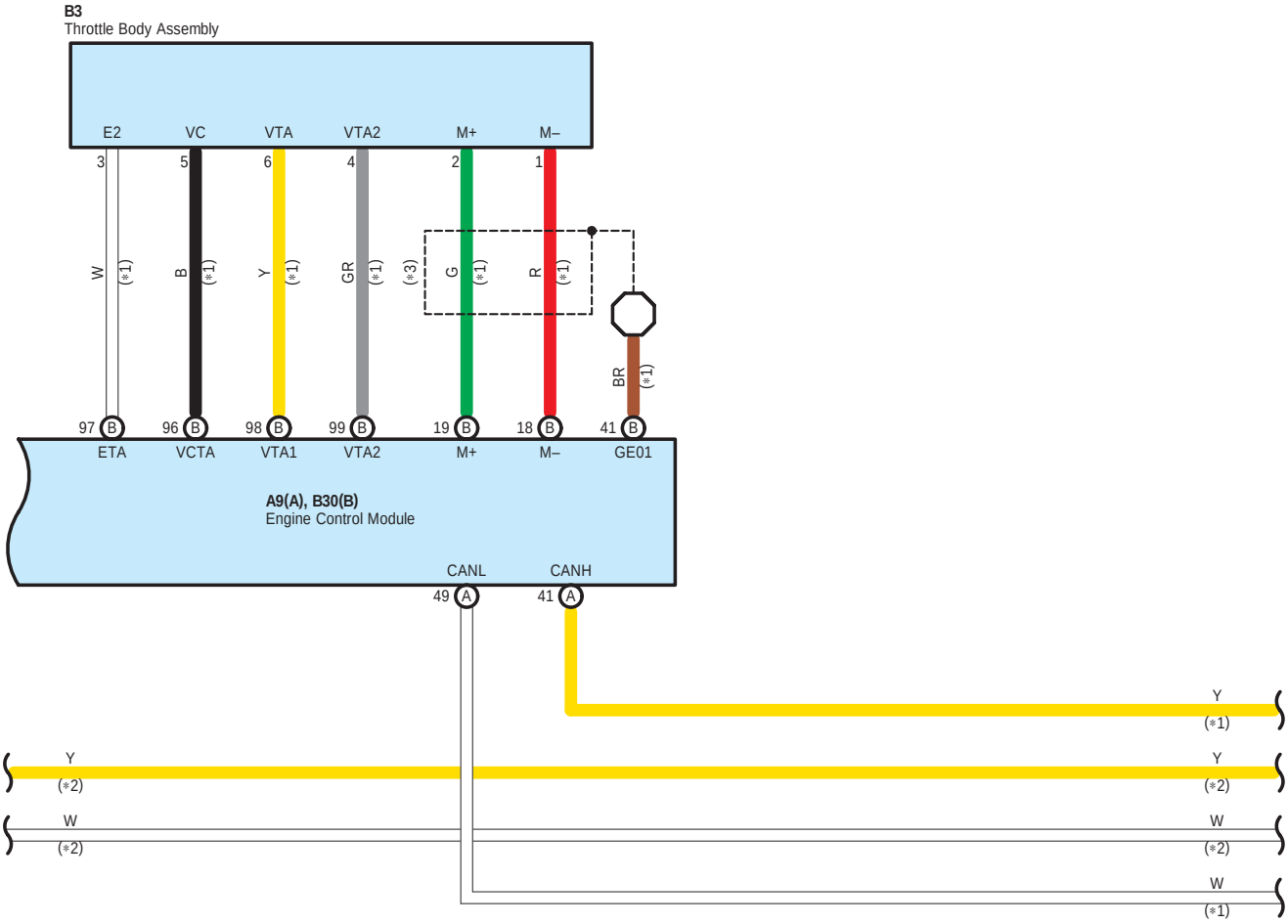
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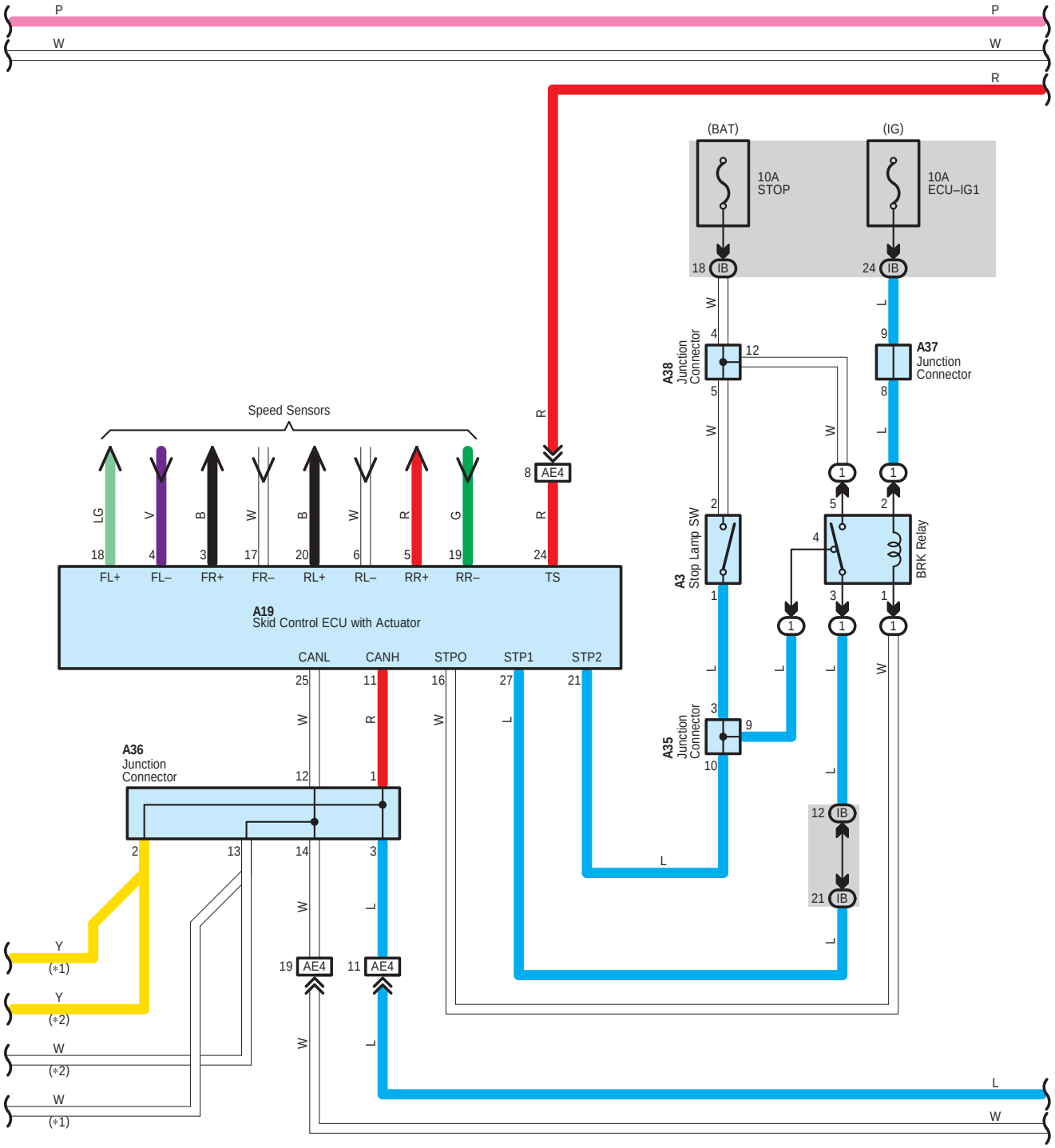
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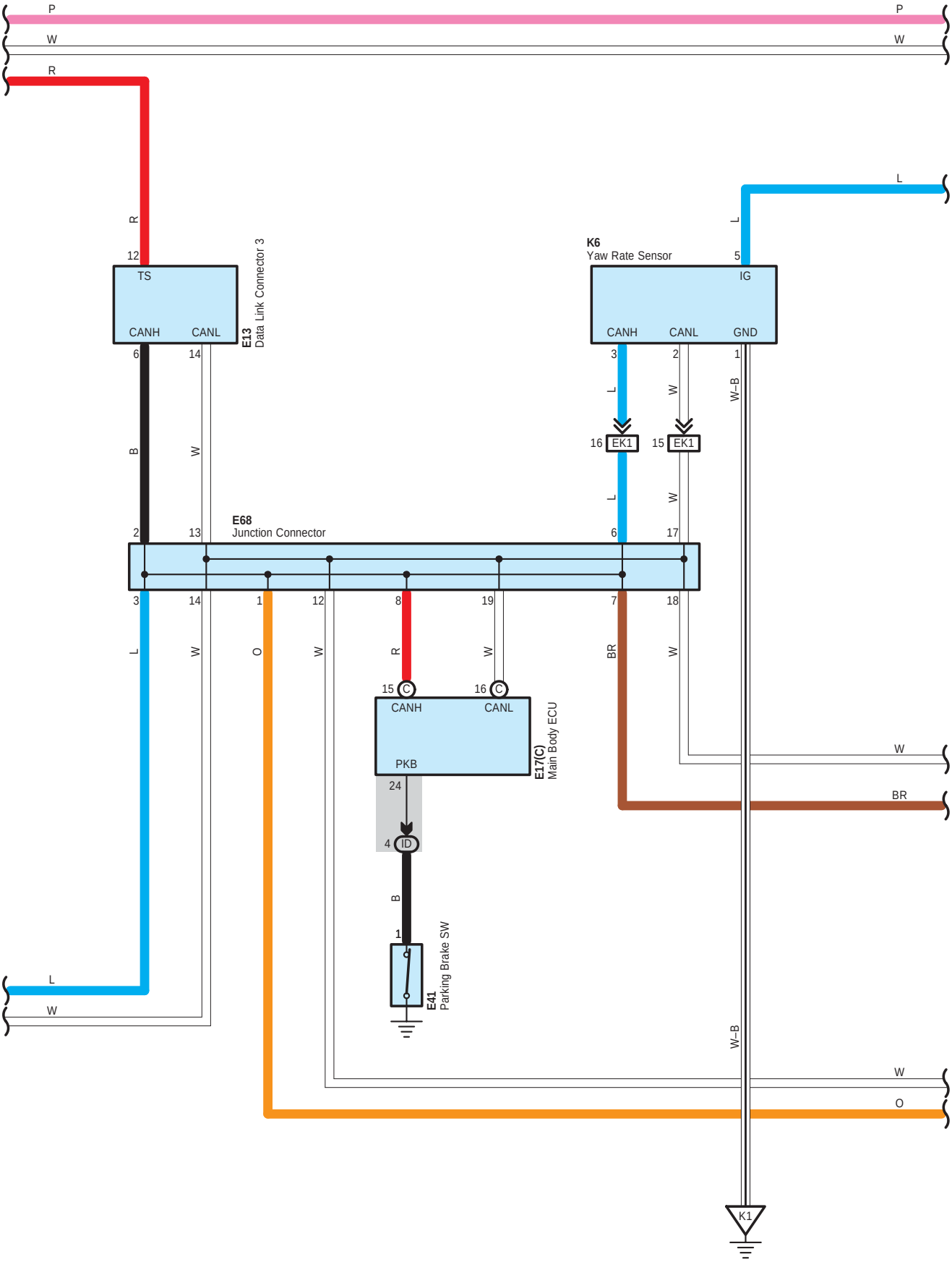
∗ 1 : 2GR–FE
∗ 2 : 2AZ–FE
∗ 3 : Shielded



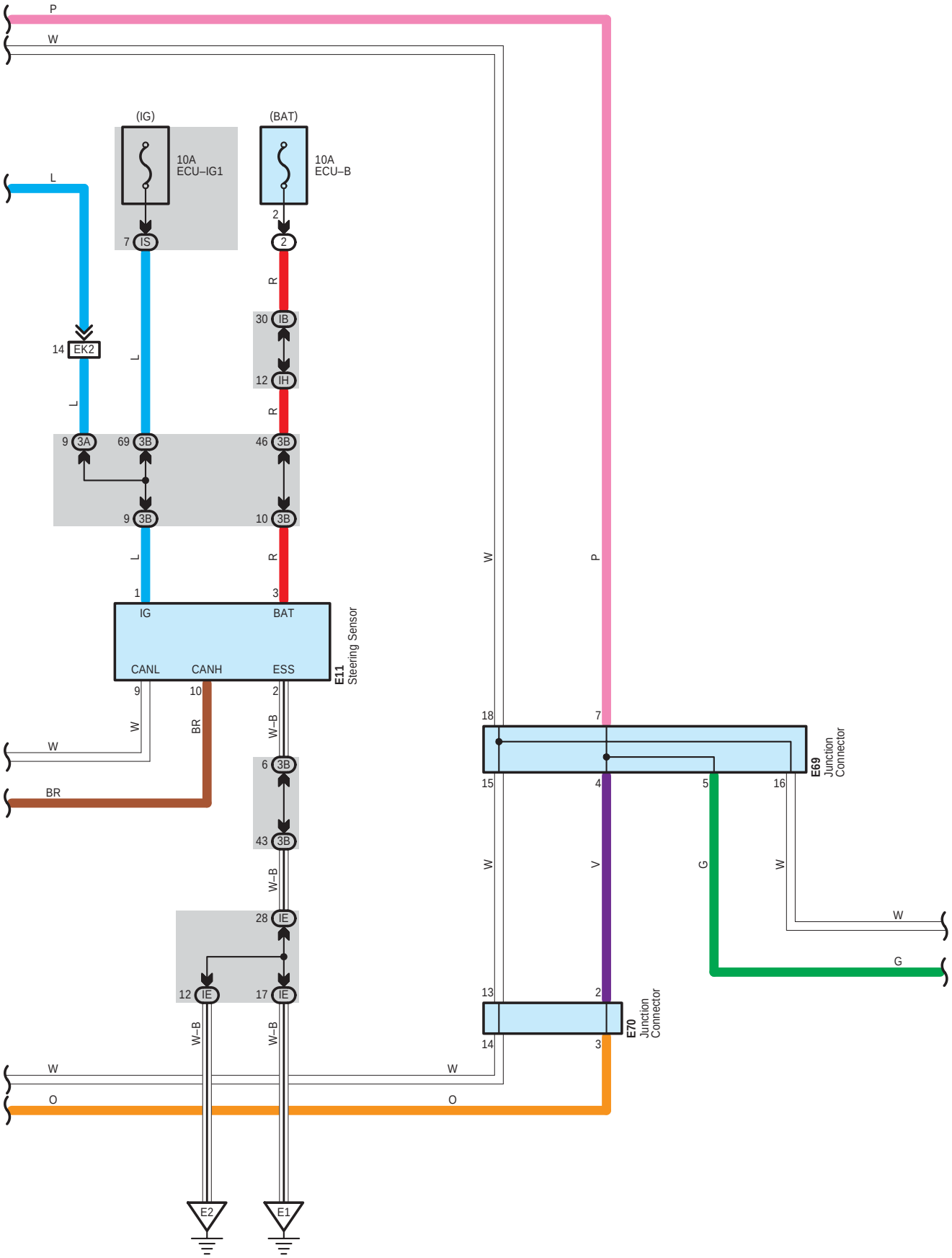
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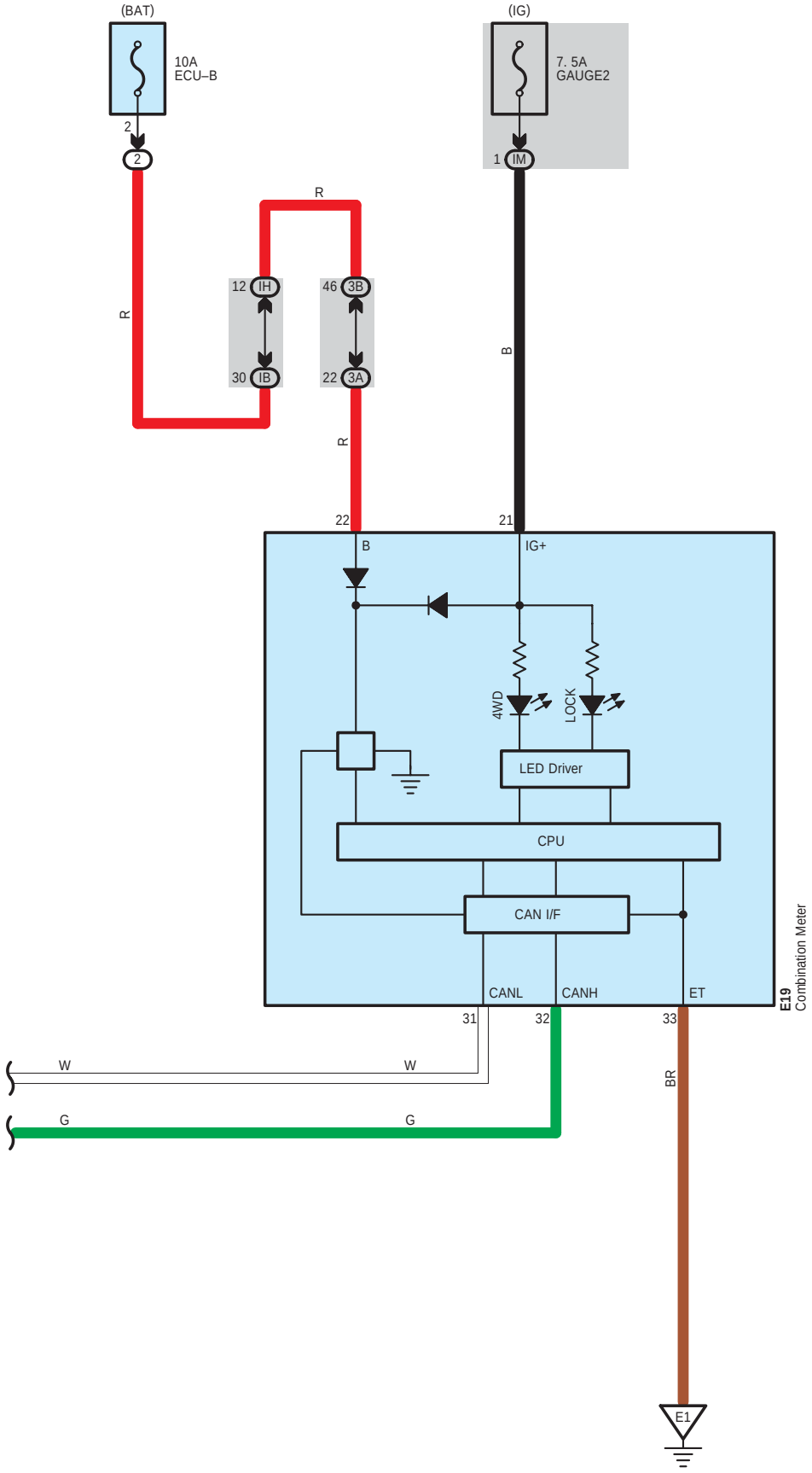
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System Outline

Driving conditions are detected through indicators such as wheel speed, yaw rate sensor and steering angle signals, which are sent by ECUs, sensors and switches. The current delivered to the solenoid is controlled to provide the optimum torque to the rear wheels, in accordance with the driving conditions.

* Auto mode control
  * The torque distribution to the rear wheels is increased at vehicle start, to ensure a stable start.
  * The torque distribution to the rear wheels is reduced during slow speed driving to stabilize.
  * During stable driving, the torque distribution to the rear wheels is discontinued, making the vehicle front wheel drive and reducing fuel consumption.
  * During deceleration using the brakes, the 4 wheel drive is released to enhance the effect of the ABS/VSC control.
* Lock mode control
  * The torque distribution to the rear wheels is fixed at the maximum level.
  * At vehicle start, the torque distribution to the rear wheels is set at the maximum level to facilitate escape from the stuck condition.
  * The mode automatically reverts to auto mode at a vehicle speed of 40 km/h or over.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	56	B3	53 (2AZ–FE)	E19	54
A9 A	50 (2GR–FE)	B22	53 (2AZ–FE)	E41	55
	52 (2AZ–FE)	B26	51 (2GR–FE)	E50	55
A19	50 (2GR–FE)		53 (2AZ–FE)	E57	55
	52 (2AZ–FE)	B30 B	51 (2GR–FE)	E68	55
A35	56	B30 C	53 (2AZ–FE)	E69	55
A36	56	B46	51 (2GR–FE)	E70	55
A37	56	E11	54	K6	59
A38	56	E13	54	O1	61
B3	51 (2GR–FE)	E17 C	54		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IH		
IM	31	
IS		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EK2		
MK1	67	Floor No.4 Wire and Floor Wire (Left Quarter Panel)
MO1	67	Floor No.4 Wire and Frame No.3 Wire (Near the Rear Differential)

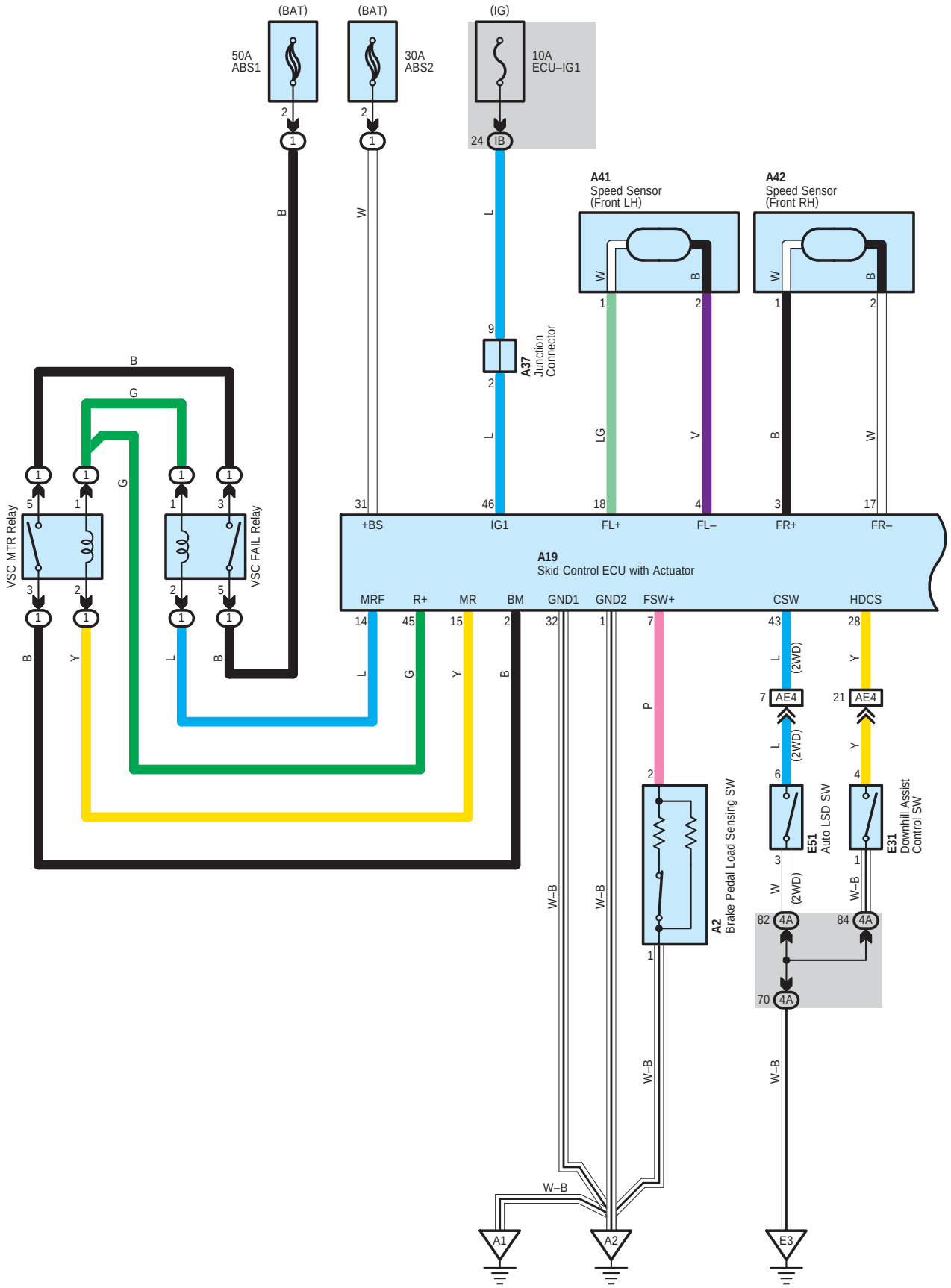
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▽ : **Ground Points**

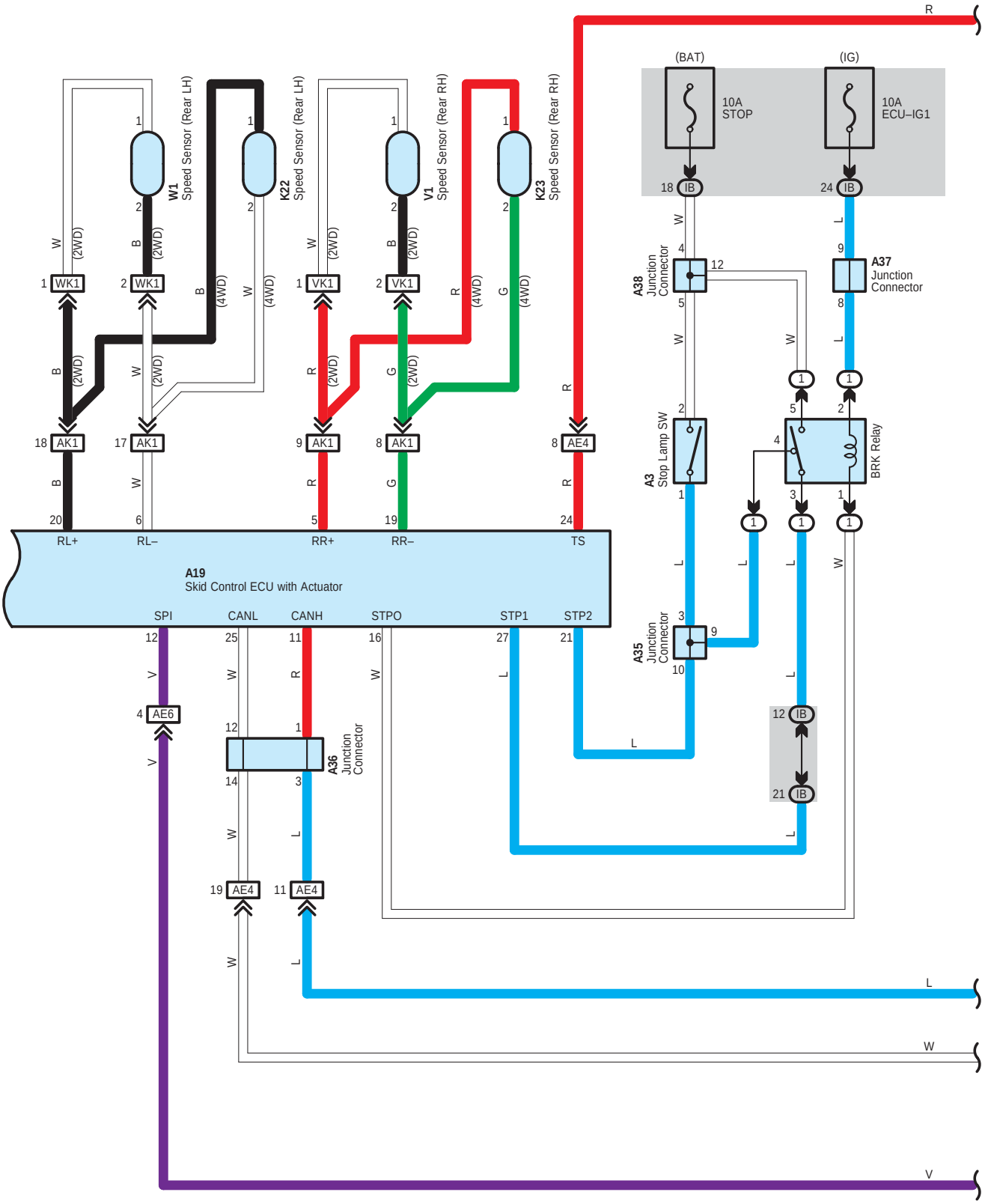
Code	See Page	Ground Points Location
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B3	64 (2GR–FE)	
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left
E4	66	Right Kick Panel
K1	67	Left Center Pillar

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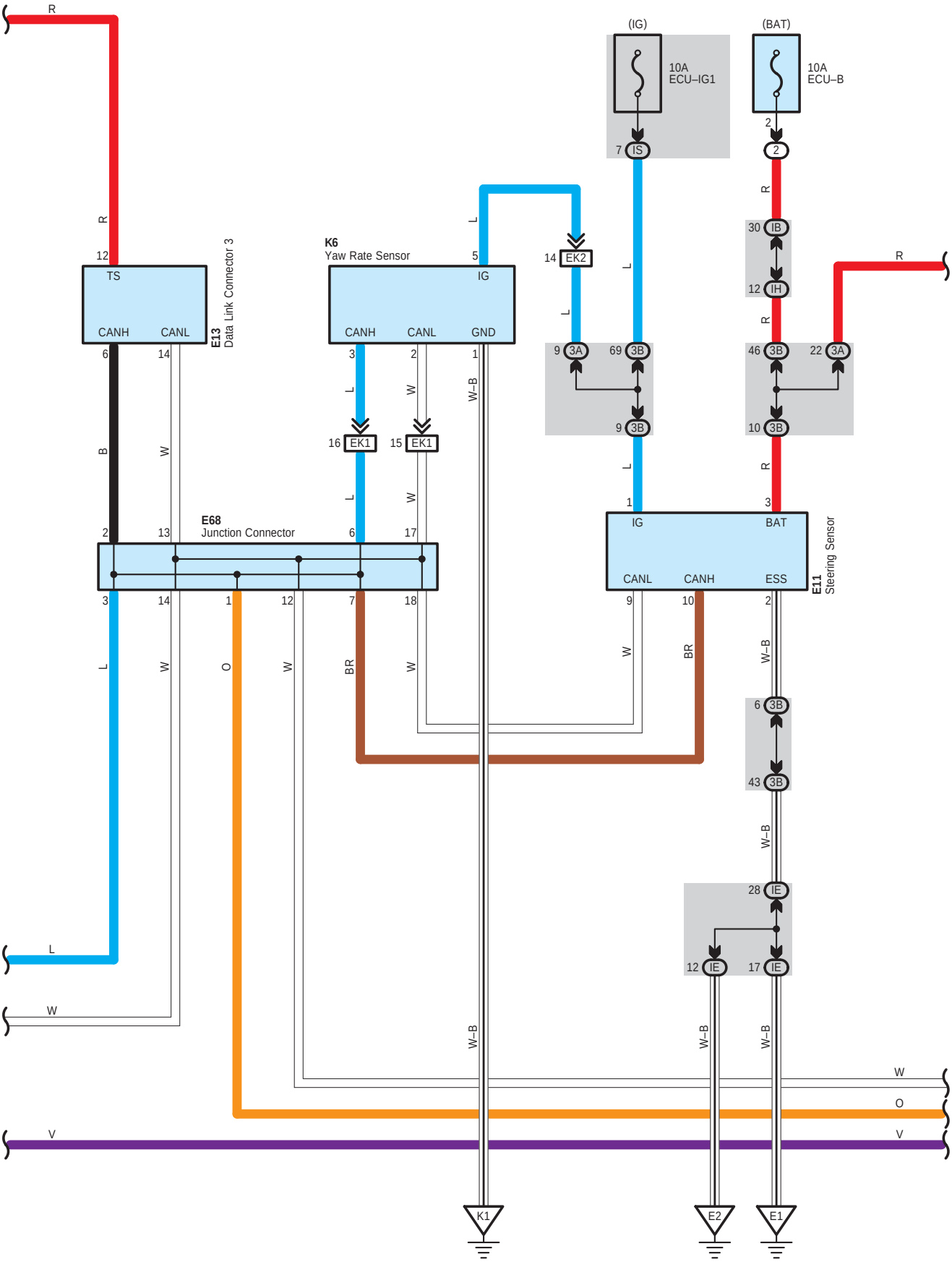
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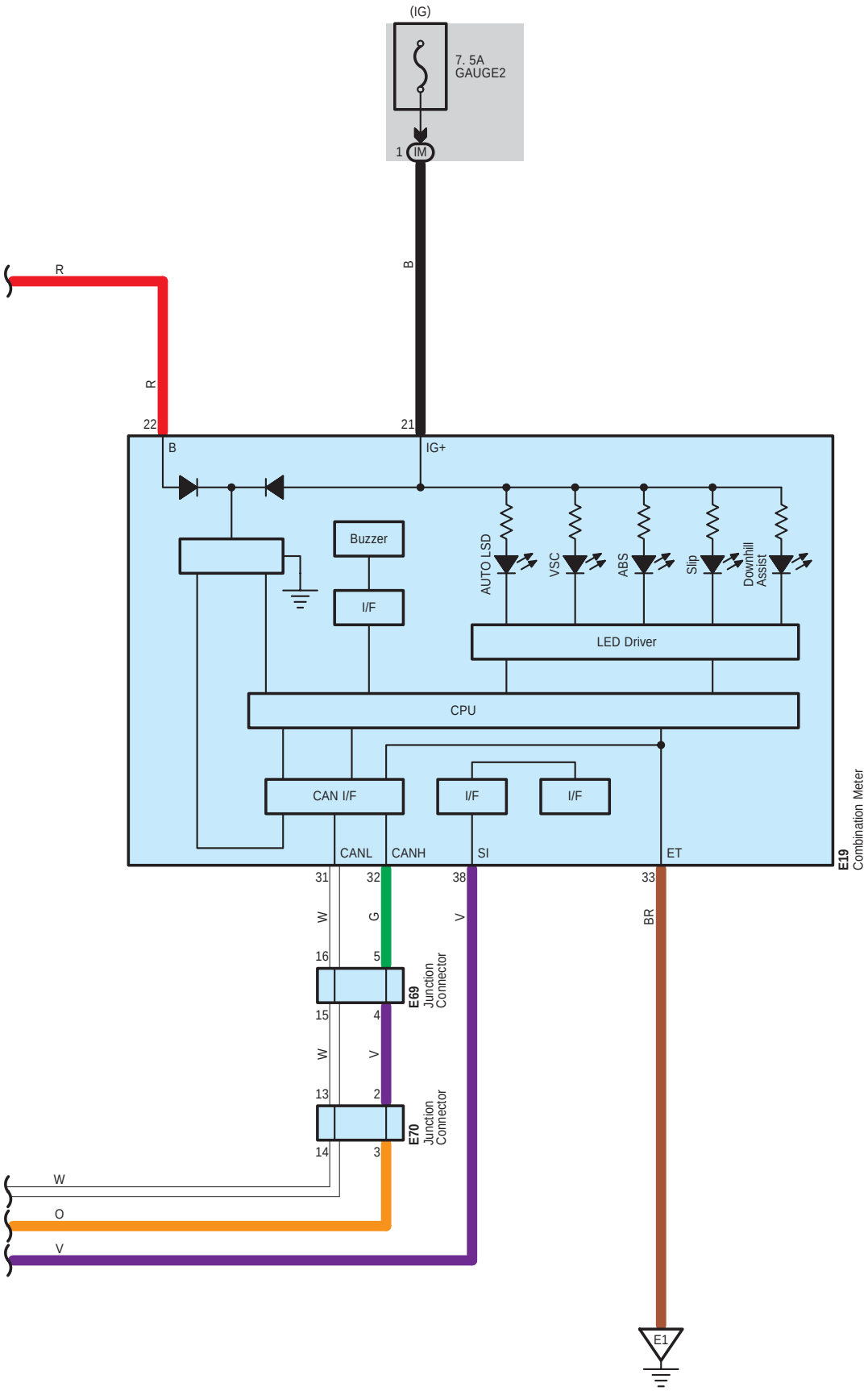
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System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the skid control ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the skid control ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under– or over–steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under– or over–steering.
To reduce large over–steering :
If the VSC system determines that the over–steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over–steering to produce the moment toward the outside of the vehicle and reduce the over–steering.
To reduce large under–steering :
If the VSC system determines that the under–steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under–steering.

4. Fail Safe Function

If an error occurs in the skid control ECU, sensor signals, and/or actuators, the skid control ECU inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions regardless of the ABS, TRAC, and VSC systems.

5. Downhill Assist Control Operation

The downhill assist control operation controls braking action of each wheel to help prevent out–of–balance vehicle posture when descending a steep hill or traveling at a speed exceeding the threshold of wheel gripping capability. When the downhill assist control is in operation, the brake system control vehicles speed within the range of 5 to 7 km/h.

6. Hill–Start Assist Control Operation

When starting on a steep hill for ascending, the hill–start support control automatically puts the brake on momentarily – from the moment when the driver releases his foot from the brake pedal until he steps on the accelerator pedal – to help the driver start the vehicle safely and smoothly.
Please bear in mind, however, that it activates the brake system for only 3 seconds.

7. Auto LSD

Auto LSD fulfills the function of LSD (Limited Slip Differential) by using the system of TRAC. It control to focus on 'getting out', which ensures to recover from run–off condition and to take off on roads with much travel resistance such as sand.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	56	A41	52 (2AZ–FE)	E69	55
A3	56	A42	50 (2GR–FE)	E70	55
A19	50 (2GR–FE)		52 (2AZ–FE)	K6	59
	52 (2AZ–FE)	E11	54	K22	59
A35	56	E13	54	K23	59
A36	56	E19	54	V1	61
A37	56	E31	54	W1	61
A38	56	E51	55		
A41	50 (2GR–FE)	E68	55		

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: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	
IS		

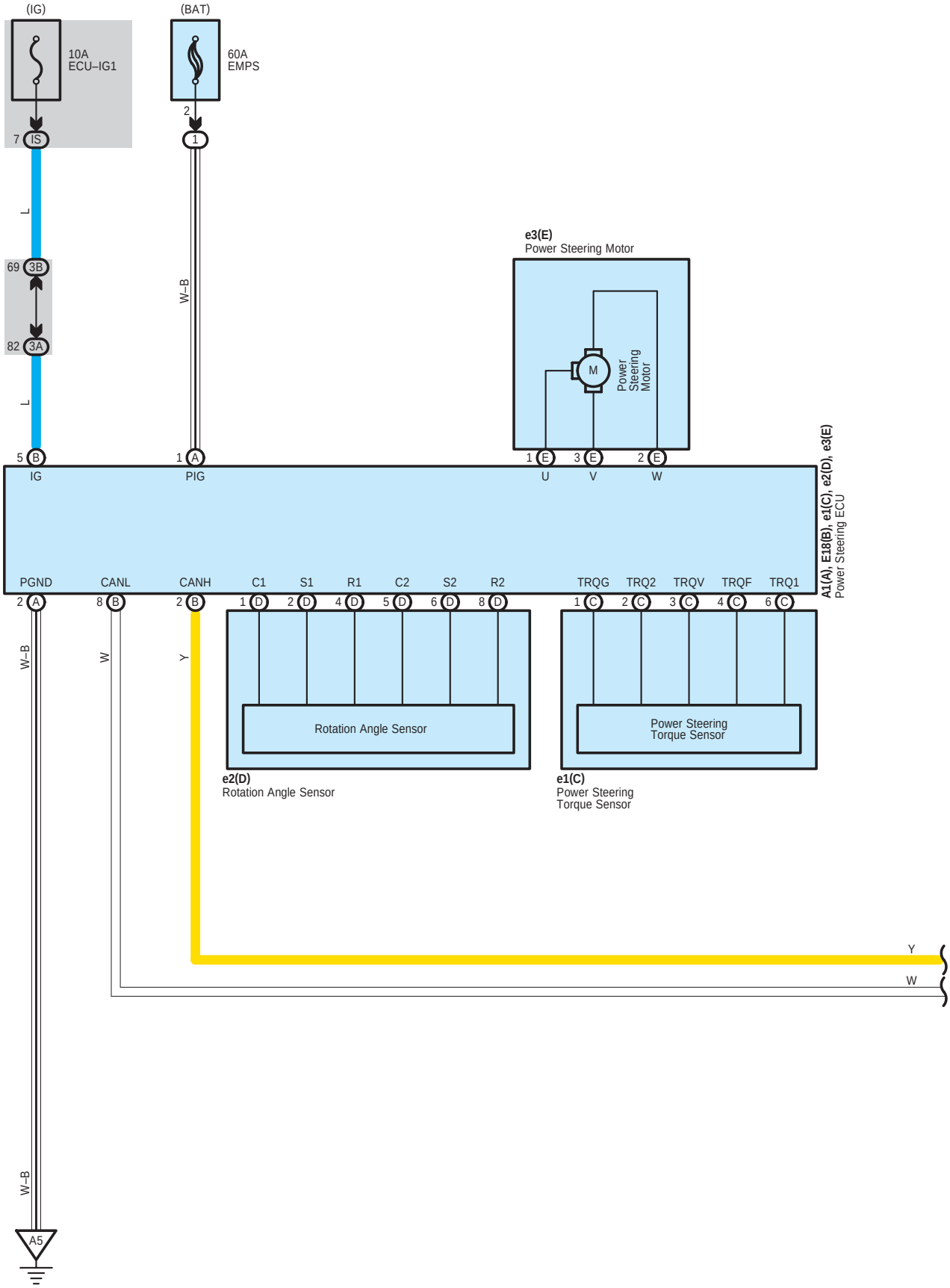
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EK2		
VK1	67	Skid Control Sensor Wire Rear RH and Floor Wire (Quarter Wheel House Panel RH)
WK1	67	Skid Control Sensor Wire Rear LH and Floor Wire (Quarter Wheel House Panel LH)

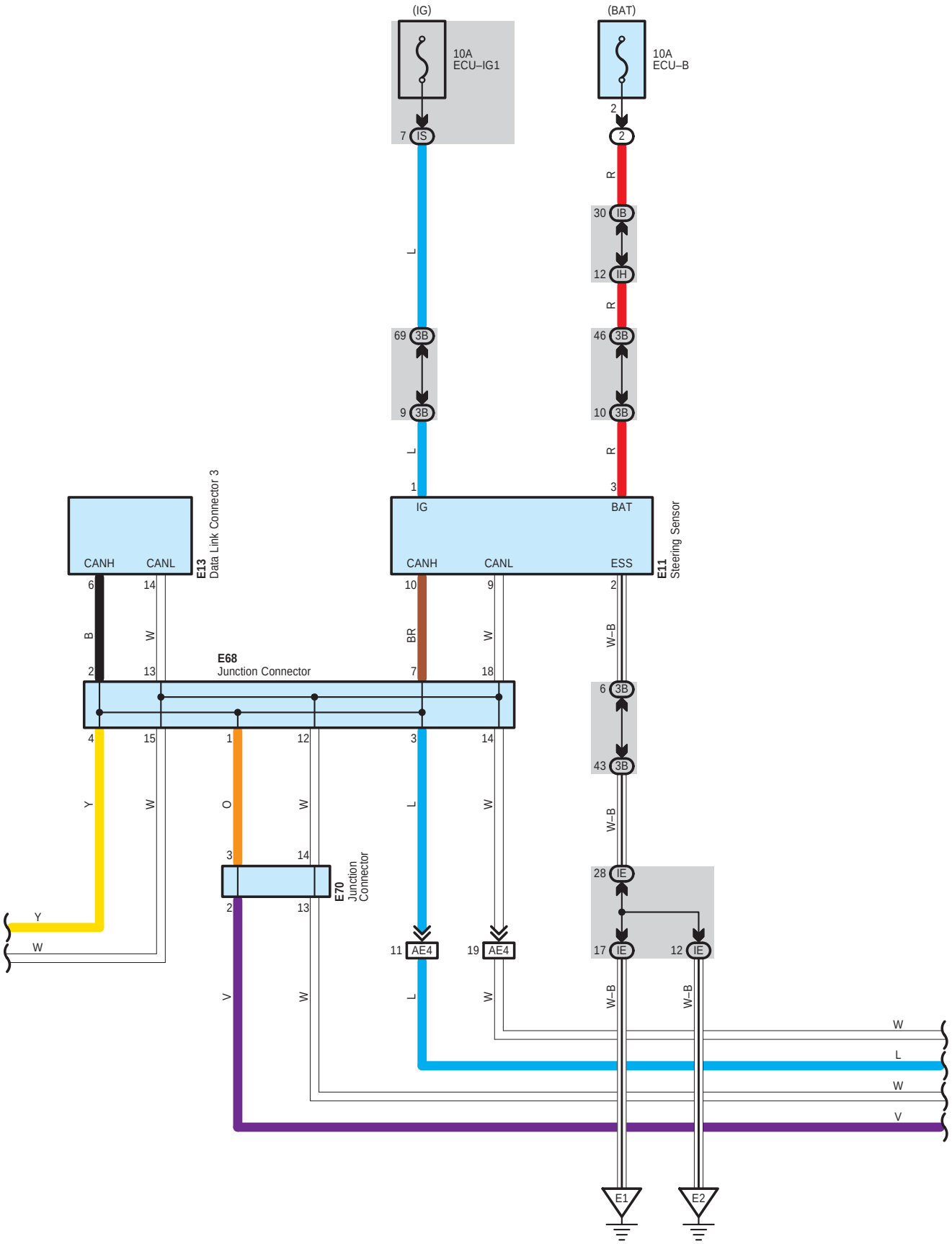
: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left
E3	66	Instrument Panel Reinforcement Center
K1	67	Left Center Pillar

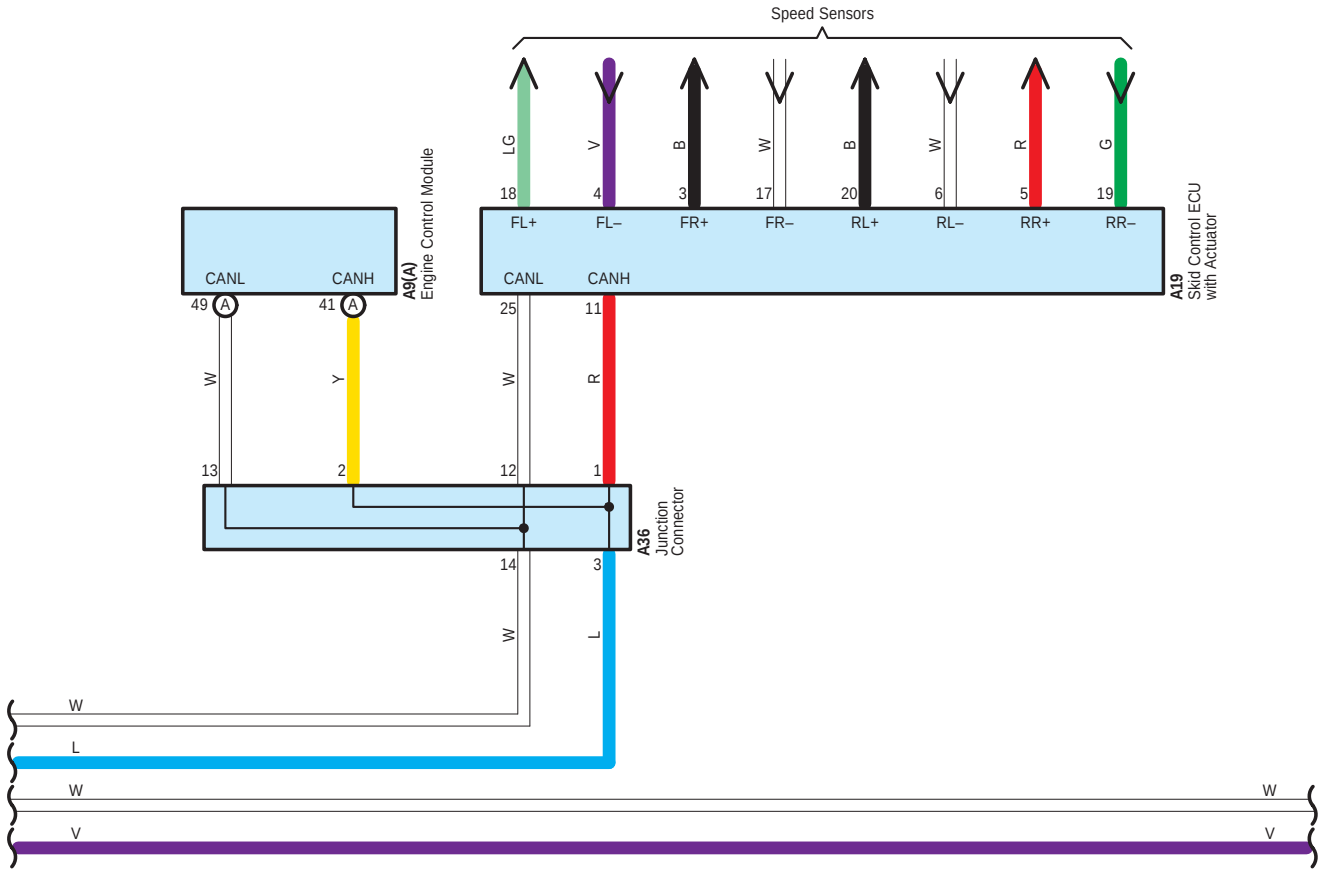
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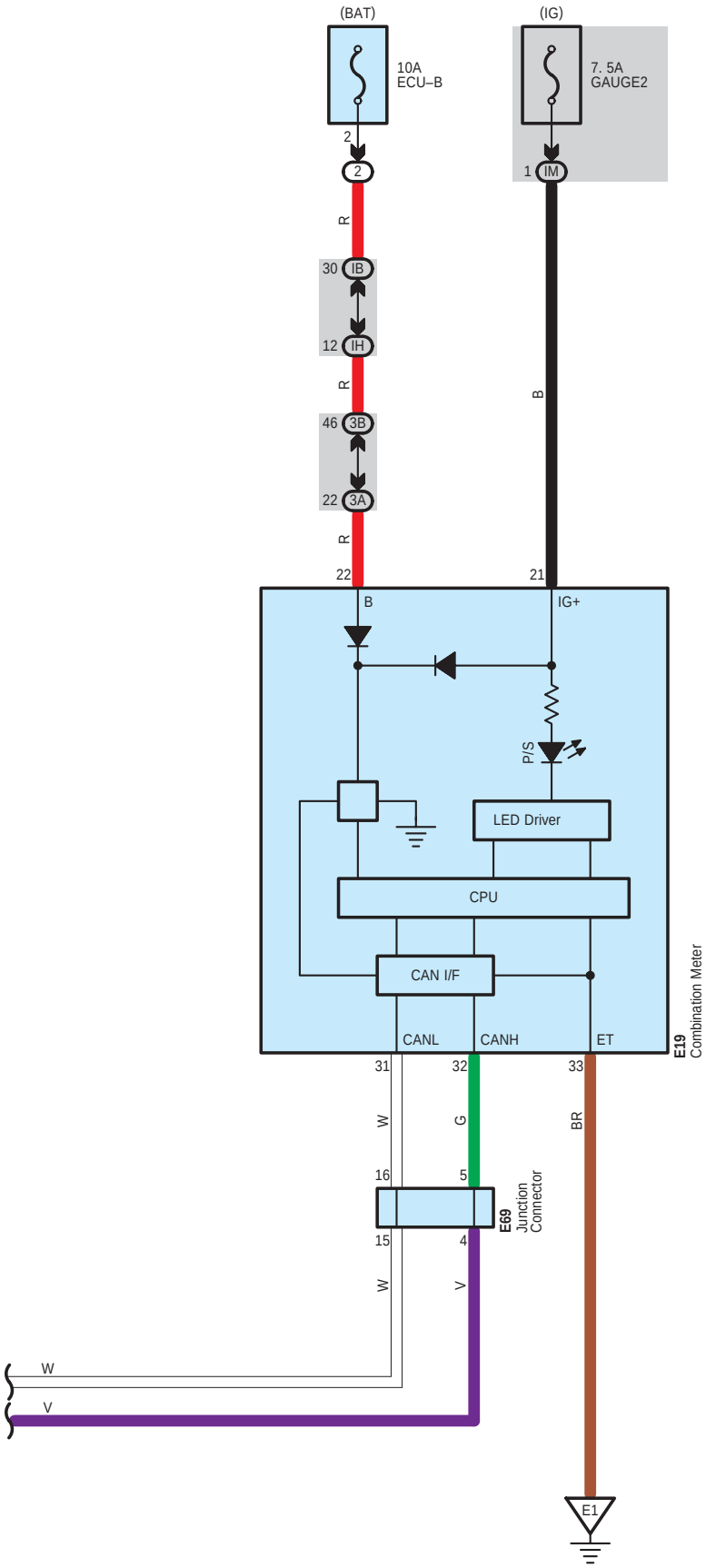
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System Outline

* To reduce driver's steering force, assist current is calculated from torque sensor signal and vehicle speed signal to output them to the motor.
* When abnormality is found in the system, the power relay and motor relay (Built in the ECU) are shut off to stop the assistance and the warning lamp (P/S) illuminates in the meter.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A1	A	56	E11		54	E70		55
A9	A	50 (2GR–FE)	E13		54	e1	C	57
		52 (2AZ–FE)	E18	B	54	e2	D	57
A19		50 (2GR–FE)	E19		54	e3	E	57
		52 (2AZ–FE)	E68		55			
A36		56	E69		55			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	
IS		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)

: Ground Points

Code	See Page	Ground Points Location
A5	66	Left Side of the Instrument Panel
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left

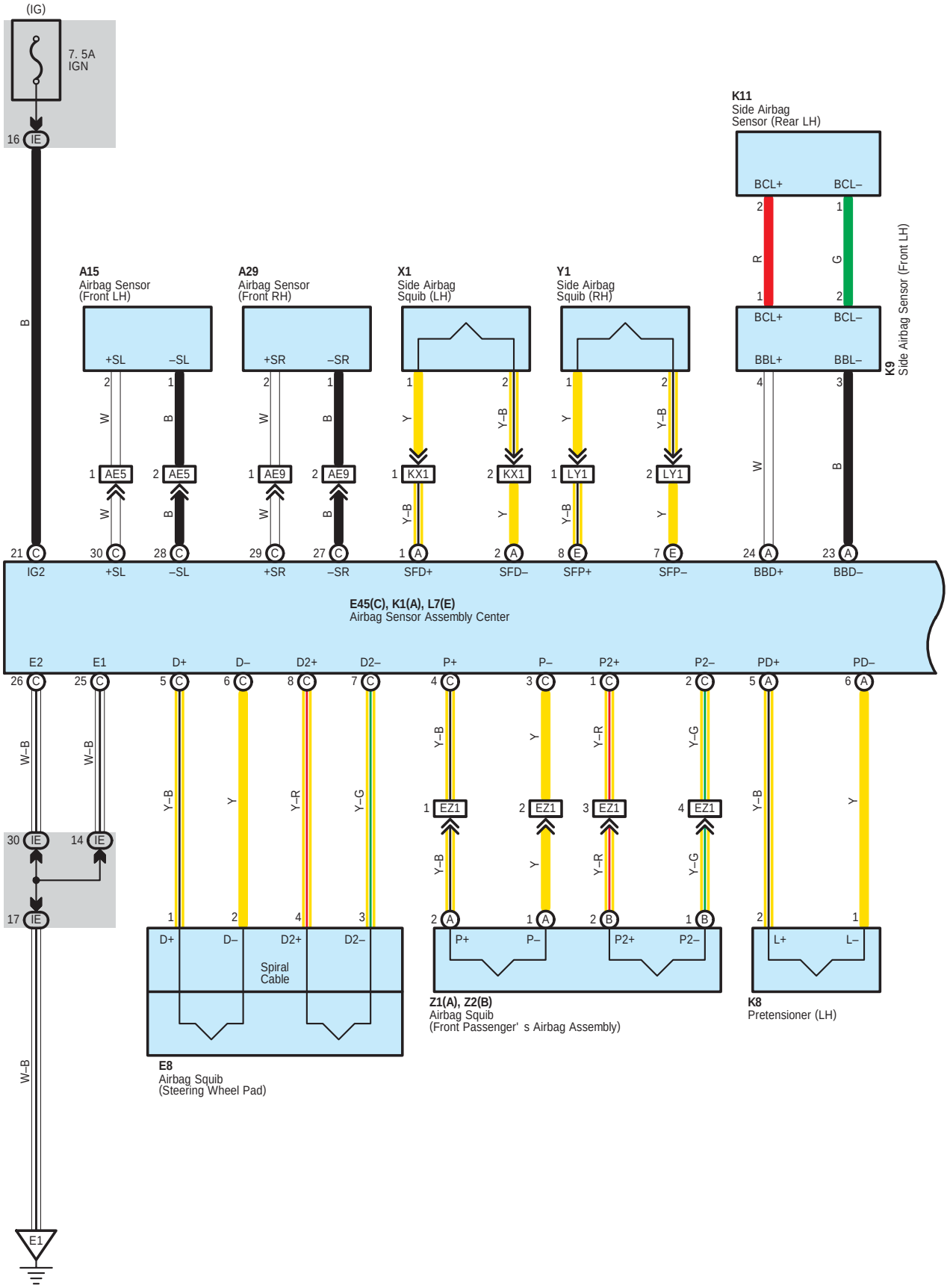
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NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

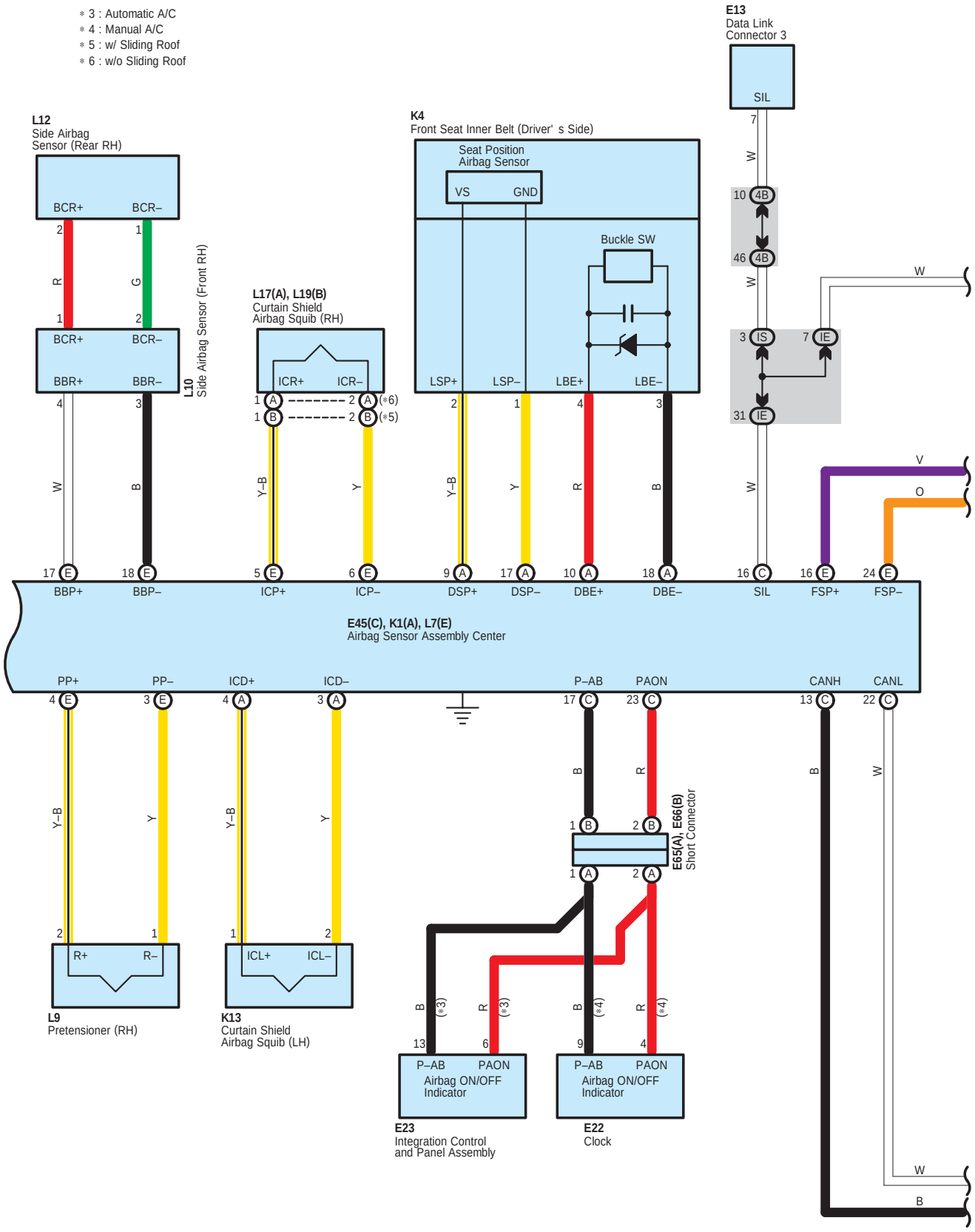
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back–up power source so that if work is started within 90 seconds from disconnecting the negative (–) terminal cable of the battery, the SRS may deploy.)
- When the negative (–) terminal cable is disconnected from the battery, the memory of the clock and audio system will be cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back–up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector, replace with new one.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

* Steering wheel pad
* Front passenger airbag assembly
* Side airbag assembly
* Curtain shield airbag assembly
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly
* Side airbag sensor assembly
* Rear airbag sensor assembly

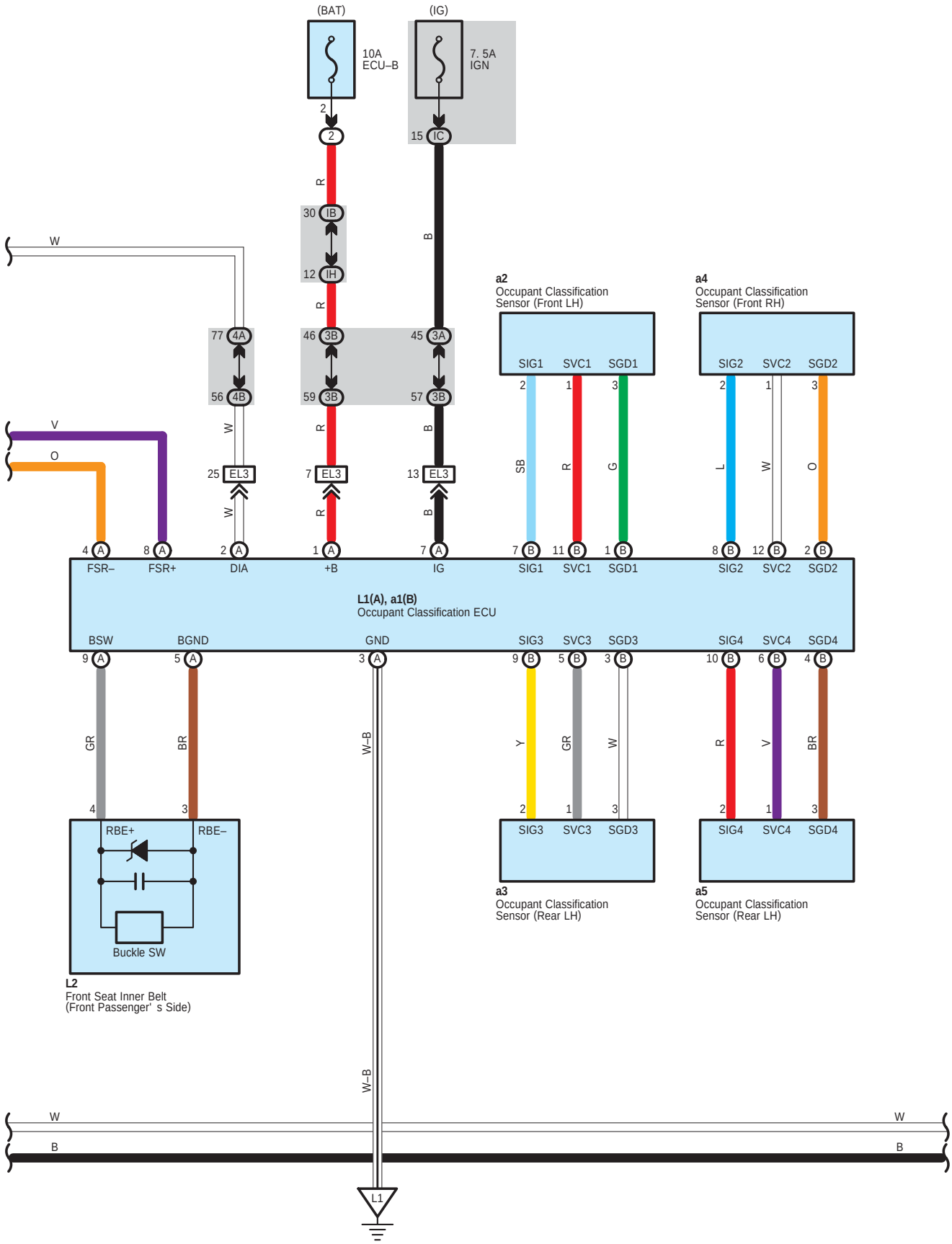
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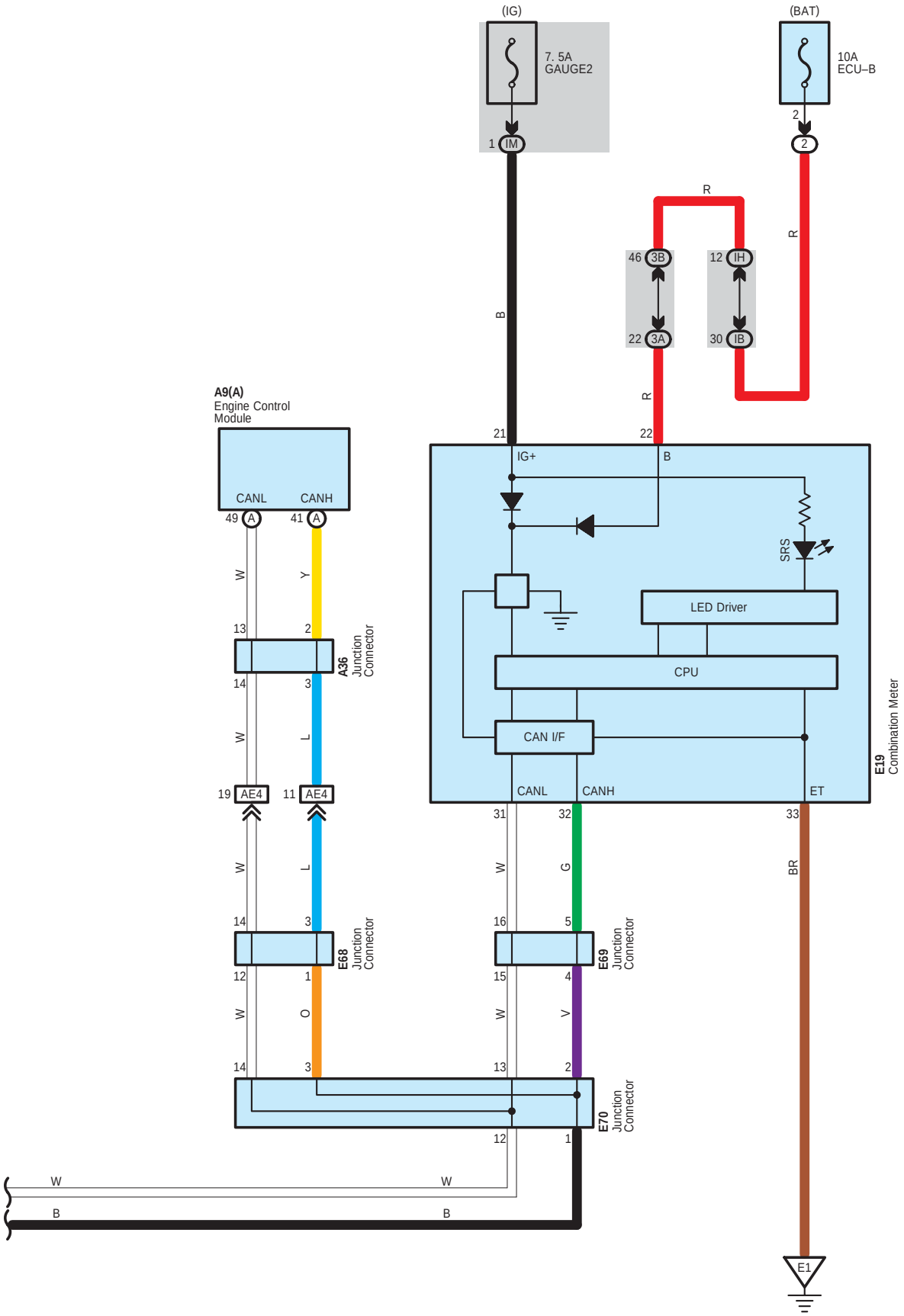
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System Outline

* The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
  – Driver Airbag
  – Front Passenger Airbag
  – Seat Belt Pretensioner
* The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
  – Side Airbags
  – Curtain Shield Airbags
* The dual–stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat), whether or not the seat belt is fastened (driver seat) and information from the front passenger occupant classification system.
* The front passenger occupant classification system judges whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, according to the load applied to the front passenger seat and whether the seat belt is buckled. Based on the results, it restricts the deployment of the front passenger airbag, front passenger side airbag, and front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the AIRBAG ON/OFF indicator lights.
* A Roll Sensing Curtain Shield Airbag system has been adopted in order to deploy the curtain shield airbags and the pretensioners, in the event that the vehicle rolls over.
* The airbag sensor assembly transmits a signal to the engin control module in order to stop the fuel pump when the airbag is deployed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	50 (2GR–FE)	E66 B	55	L10	60
	52 (2AZ–FE)	E68	55	L12	60
A15	50 (2GR–FE)	E69	55	L17 A	60
	52 (2AZ–FE)	E70	55	L19 B	60
A29	50 (2GR–FE)	K1 A	57	X1	62
	52 (2AZ–FE)	K4	62	Y1	62
A36	56	K8	59	Z1 A	57
E8	54	K9	59	Z2 B	57
E13	54	K11	59	a1 B	62
E19	54	K13	59	a2	62
E22	54	L1 A	62	a3	62
E23	54	L2	62	a4	62
E45 C	55	L7 E	57	a5	62
E65 A	55	L9	60		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IH		
IM	31	
IS		

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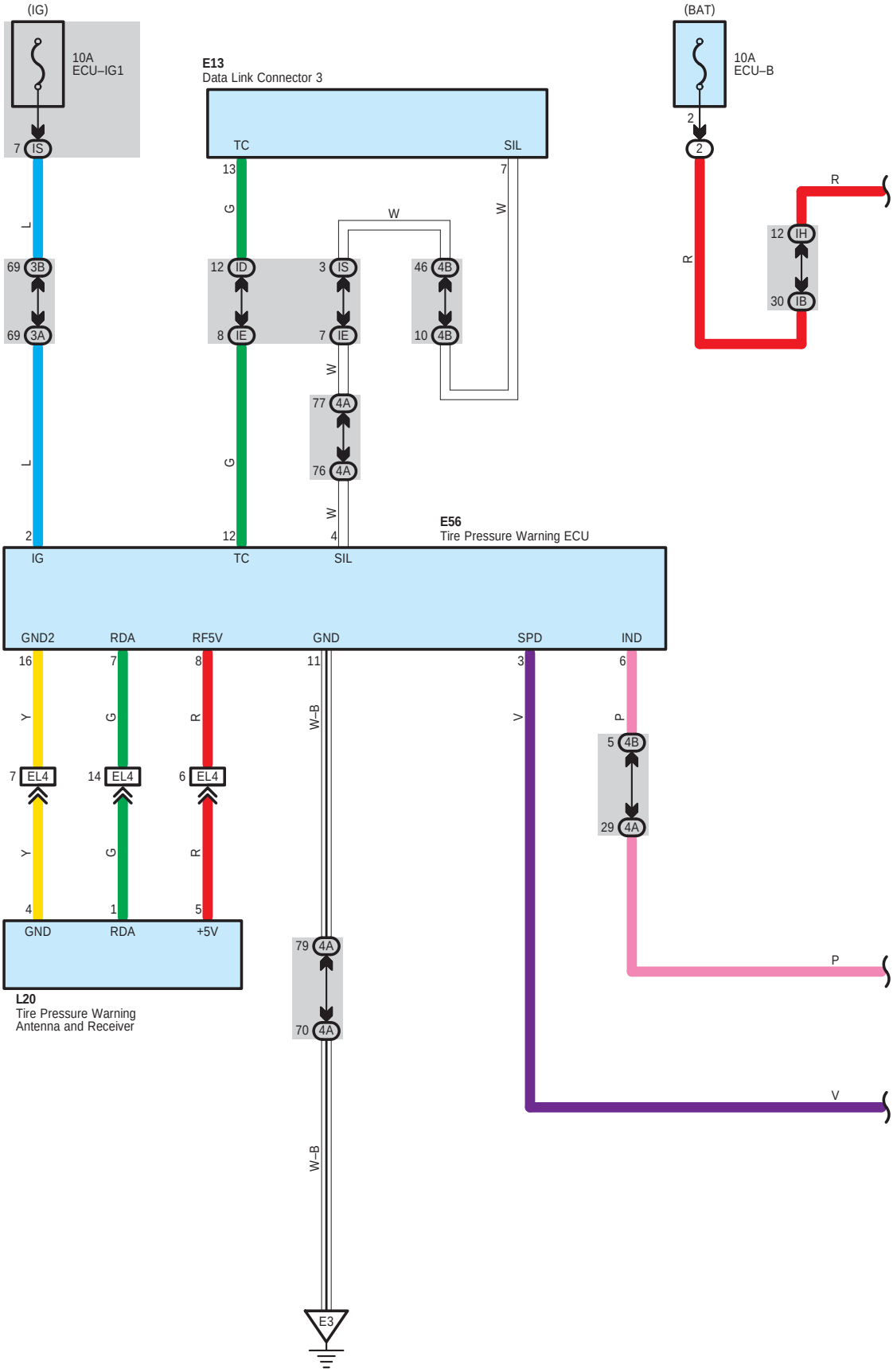
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE5		
AE9	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EZ1	66	Instrument Panel Wire and Instrument Panel Wire Assembly (Behind the Glove Box)
KX1	68	Floor Wire and Seat Airbag Wire LH (Left Side of the Driver's Seat)
LY1	68	Floor No.2 Wire and Seat Airbag Wire RH (Under the Front Passenger's Seat)

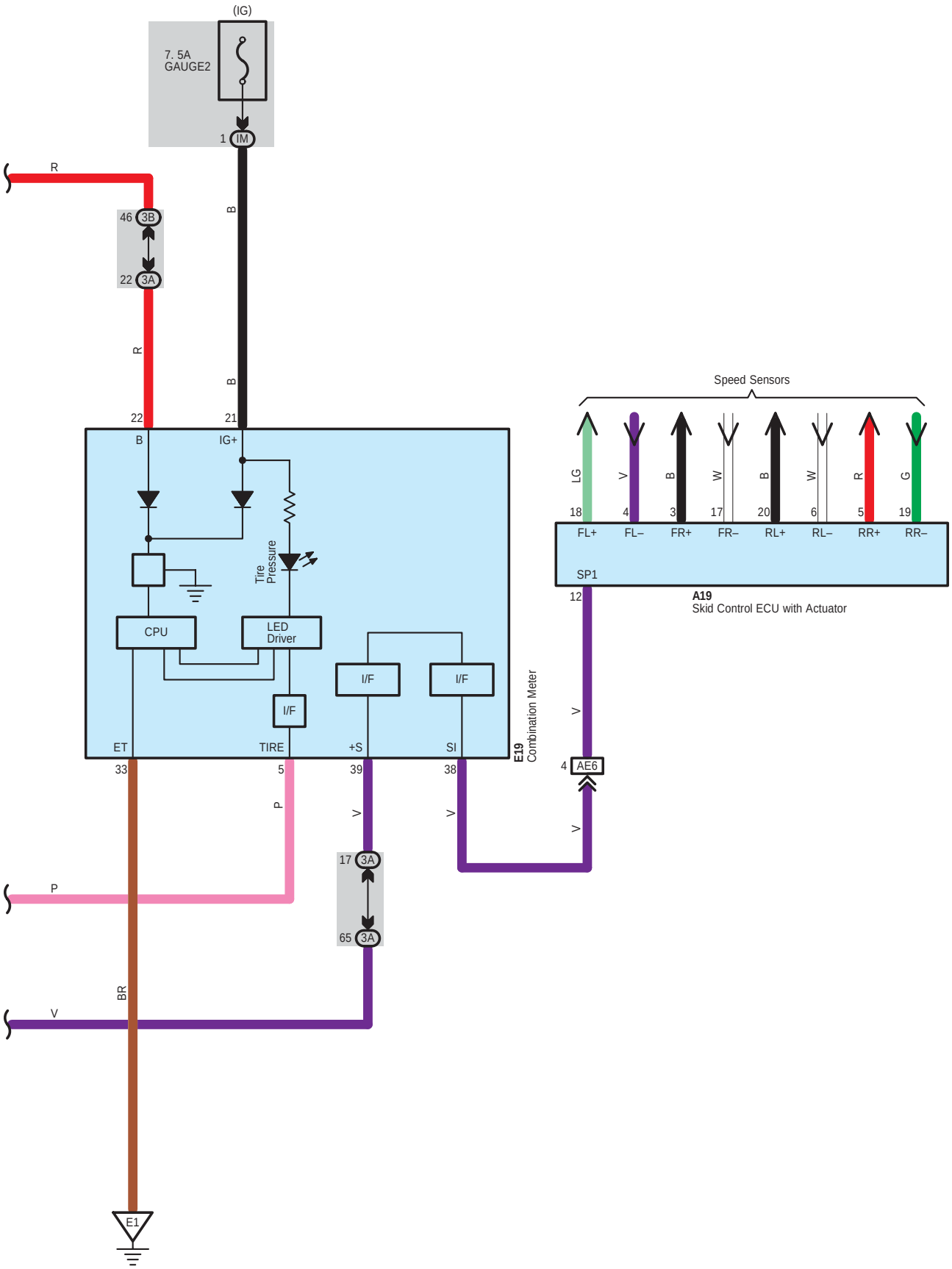
: **Ground Points**

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
L1	67	Right Center Pillar

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Tire Pressure Warning System

System Outline

* In the tire pressure warning system, the warning light illuminates to alert the driver about the low tire pressure when the vehicle continues driving with one of the five tires (Include spare tire) under such low pressure to cause possible driving disturbance.
* The air pressure sensors installed in the wheels measure air pressure in the tires directly.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A19	50 (2GR–FE)	E13	54	E56	55
	52 (2AZ–FE)	E19	54	L20	60

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IE		
IH		
IM	31	
IS		

: Connector Joining Wire Harness and Wire Harness

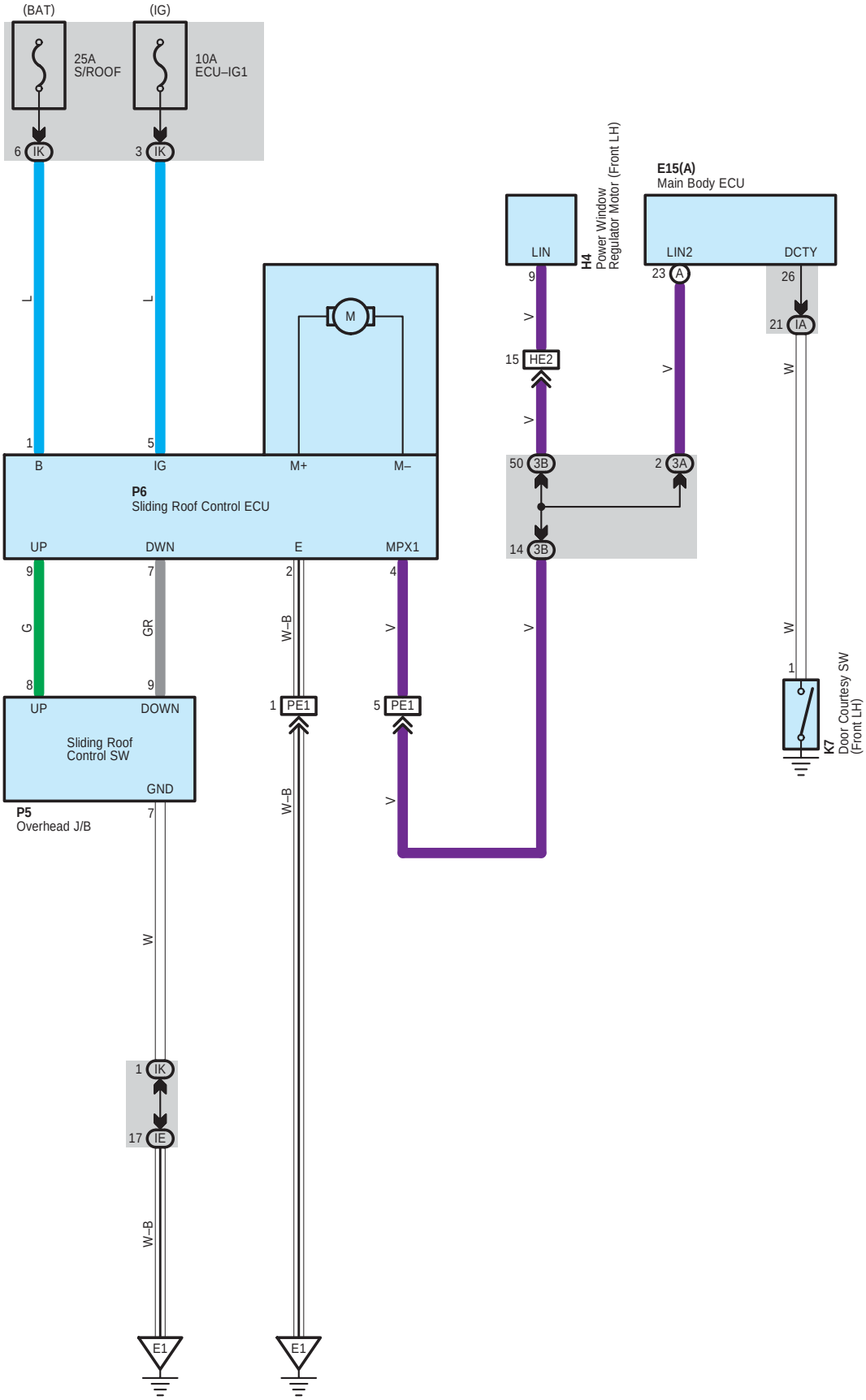
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EL4	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
E3	66	Instrument Panel Reinforcement Center

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E15 A	54	K7	59	P6	61
H4	58	P5	61		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)

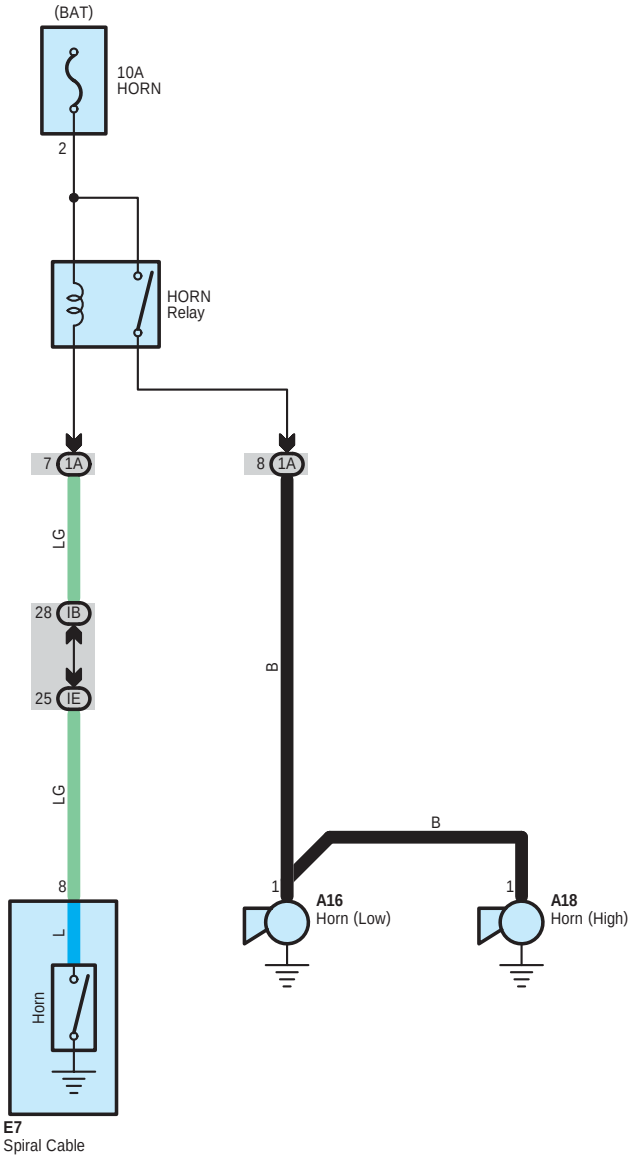
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)

: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel

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○ : **Parts Location**

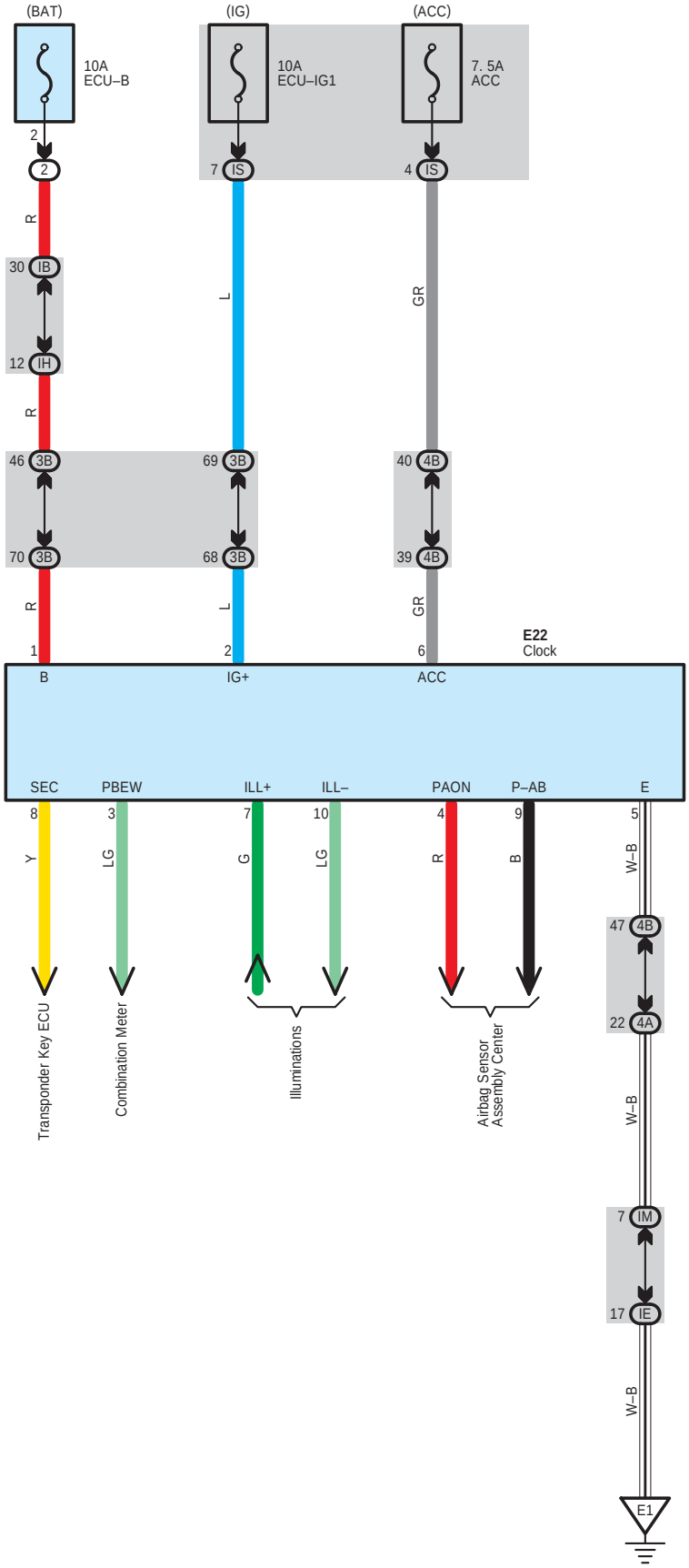
Code	See Page	Code	See Page	Code	See Page
A16	50 (2GR–FE)	A18	50 (2GR–FE)	E7	54
	52 (2AZ–FE)		52 (2AZ–FE)		

 : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

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Clock without Automatic Air Conditioning



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E22	54				

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

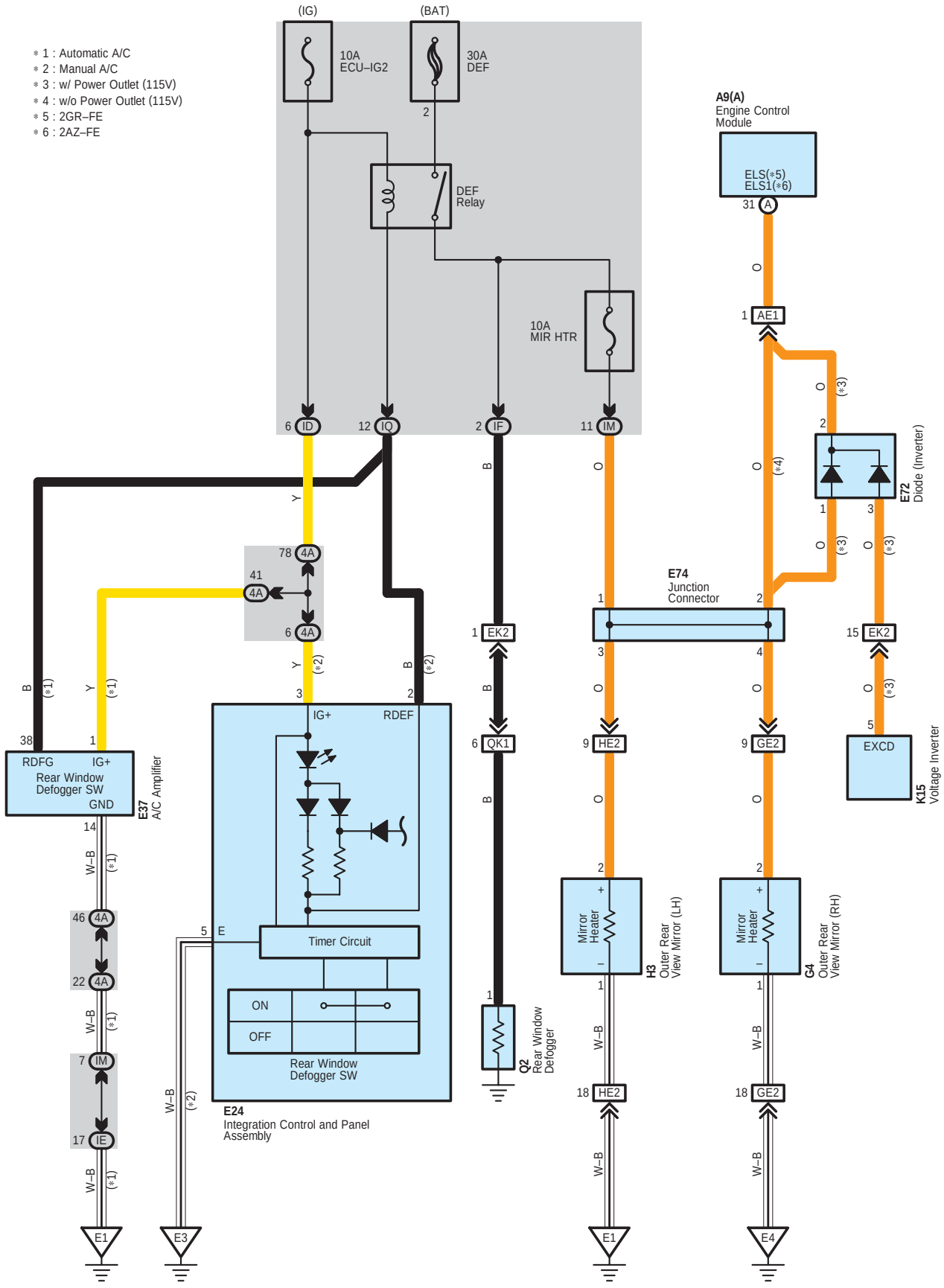
Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	
IS		

: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel

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Rear Window Defogger and Mirror Heater



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: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	50 (2GR–FE)	E72	55	K15	59
		52 (2AZ–FE)	E74	55	Q2	61
E24		54	G4	58		
E37		55	H3	58		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IF		
IM	31	
IQ		

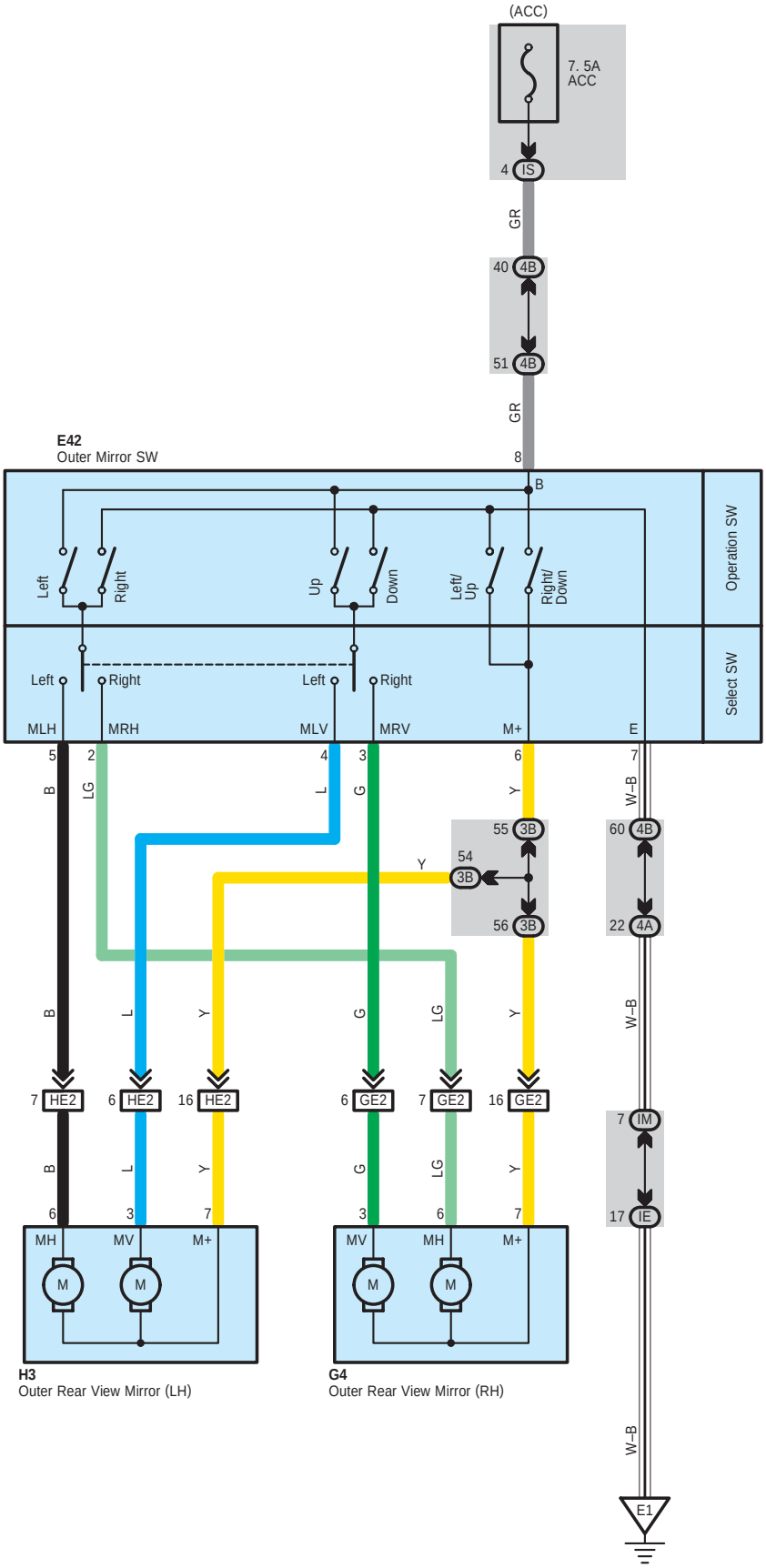
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E42	55	G4	58	H3	58

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IS		

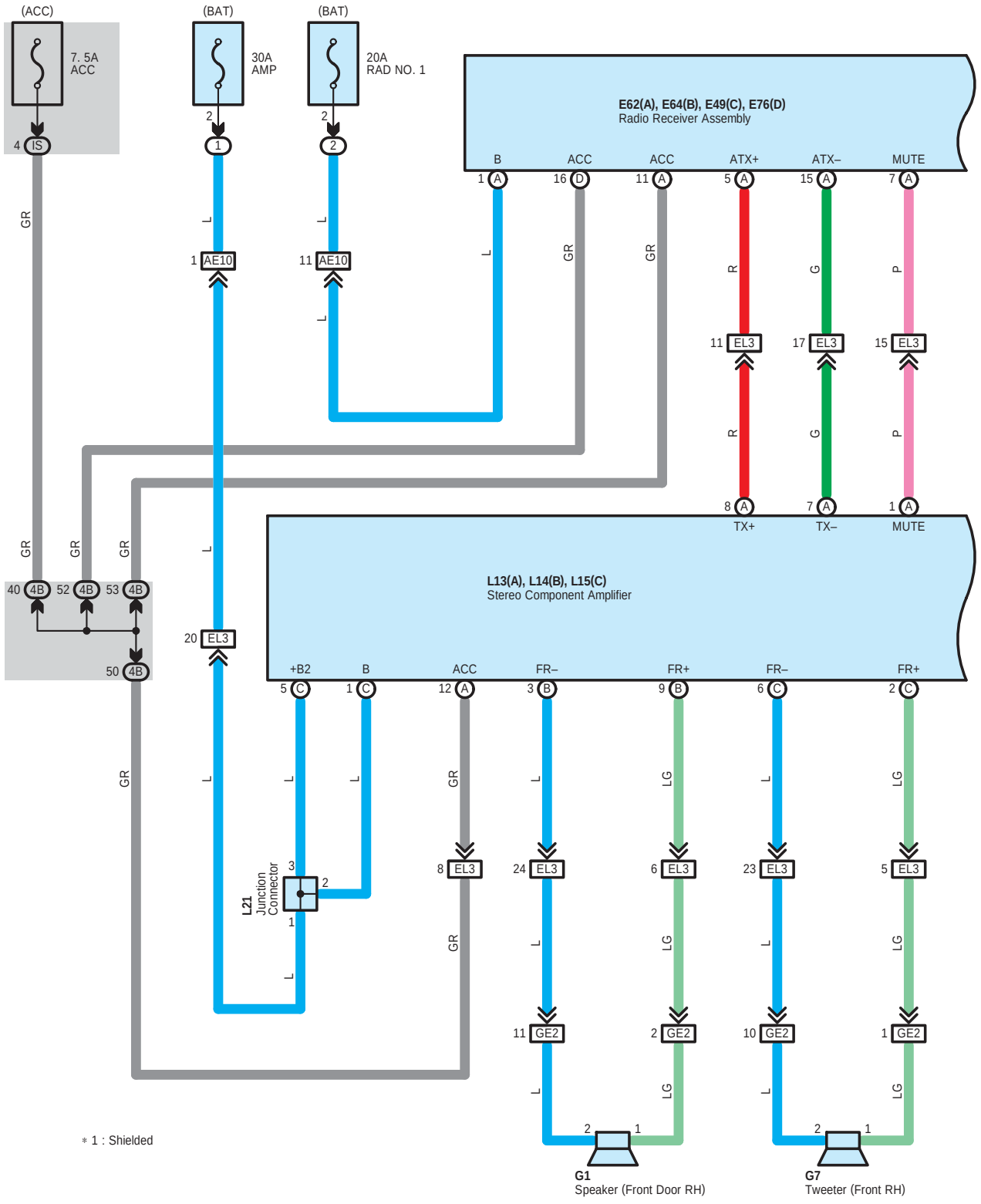
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

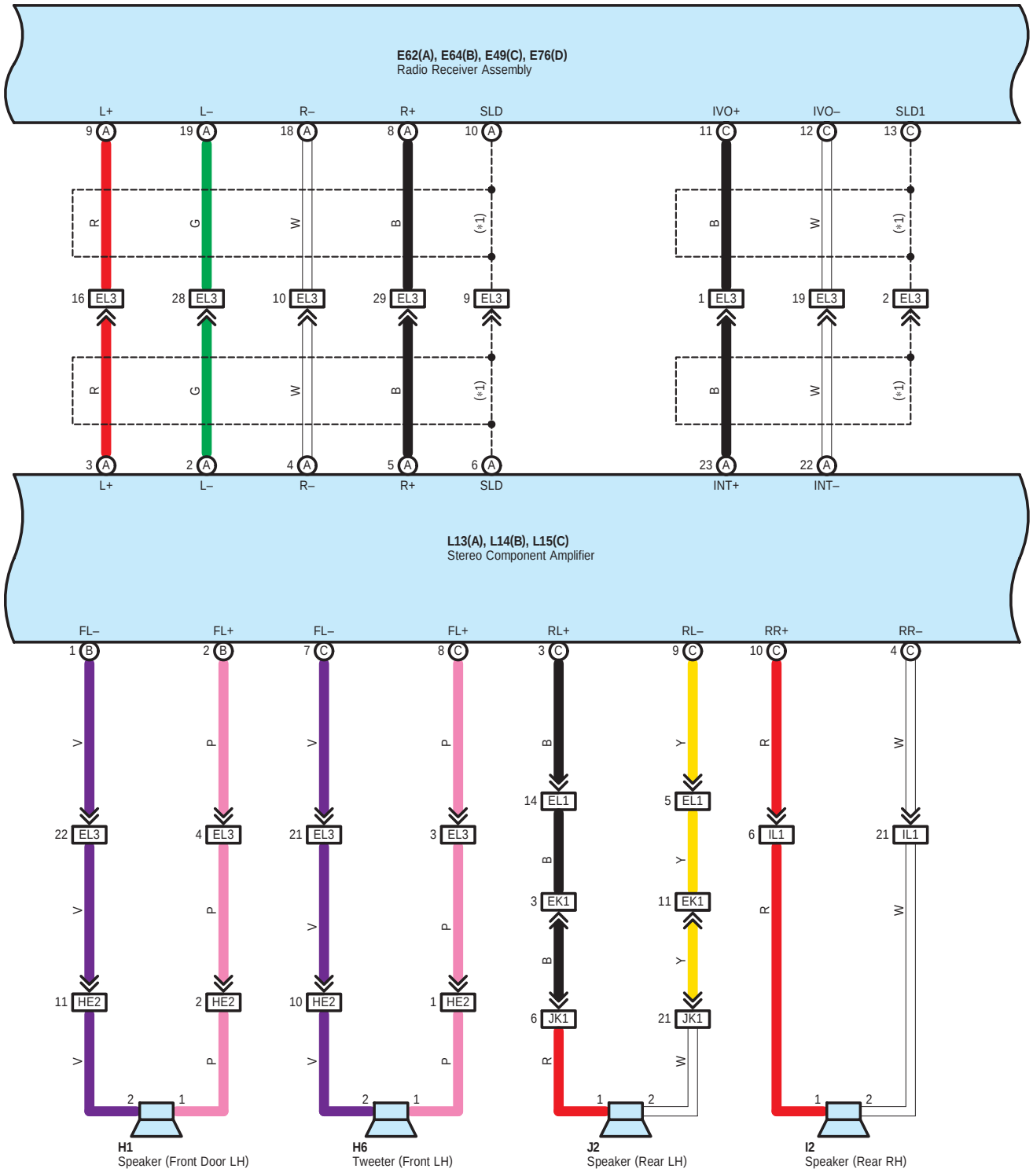
: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel

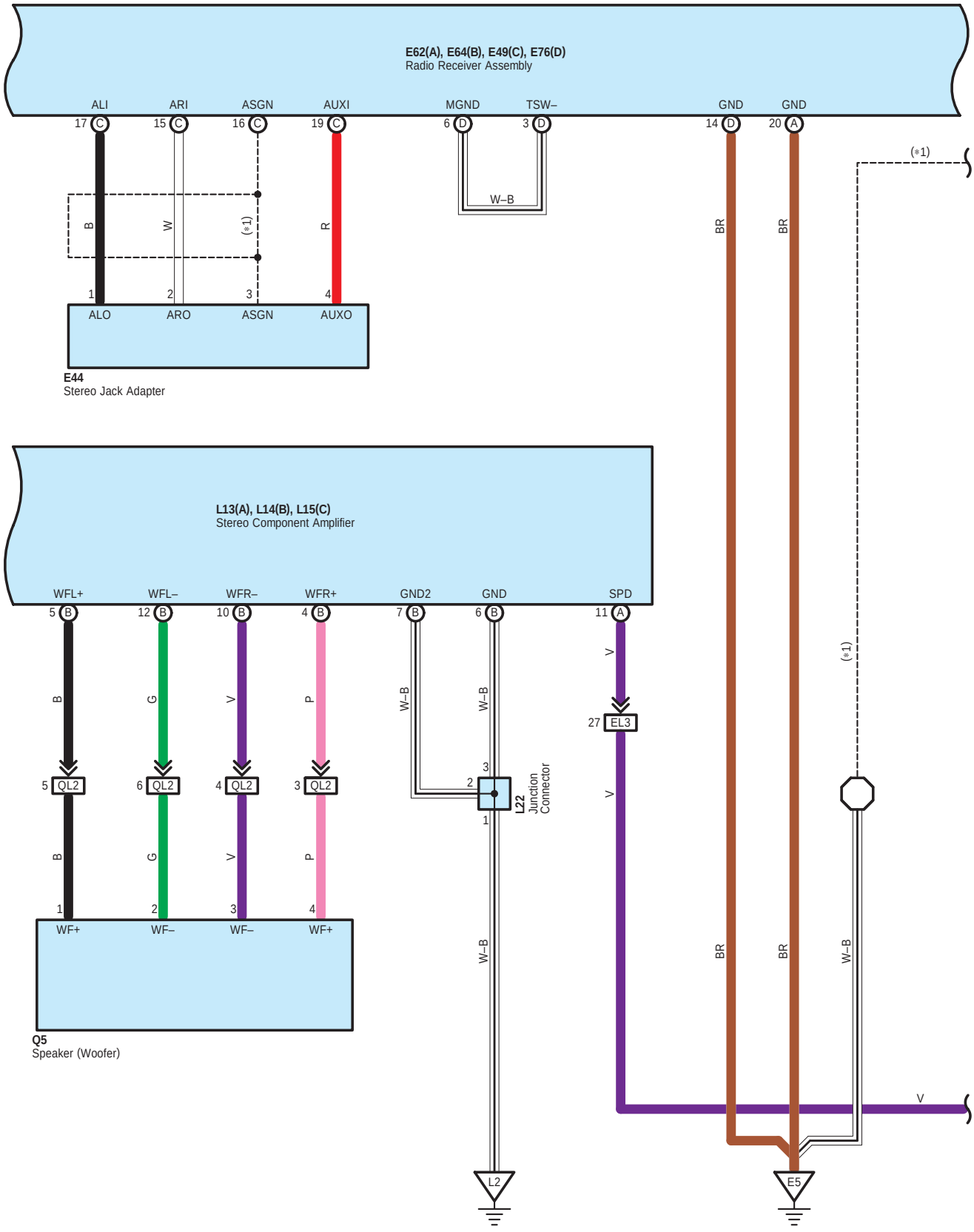
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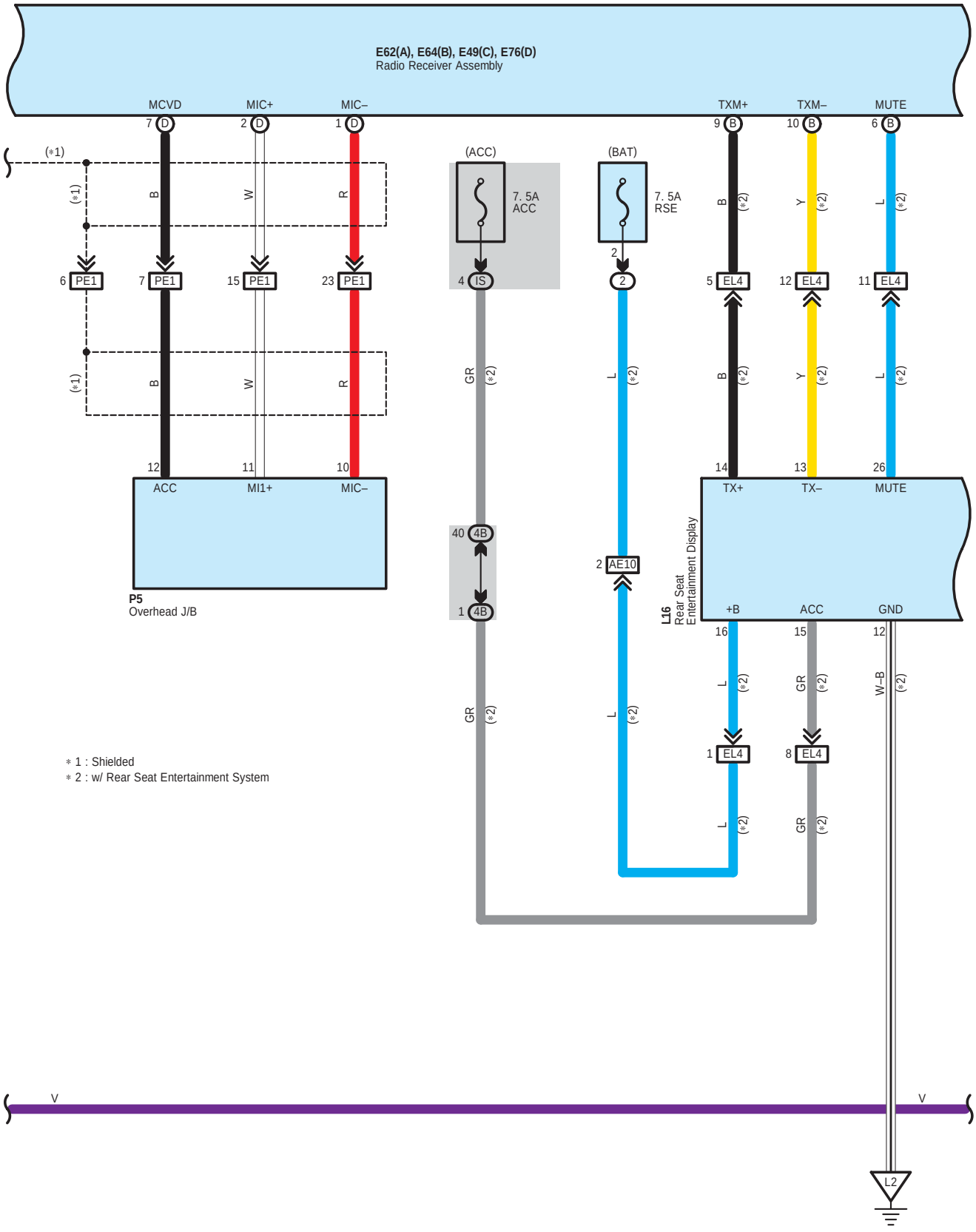
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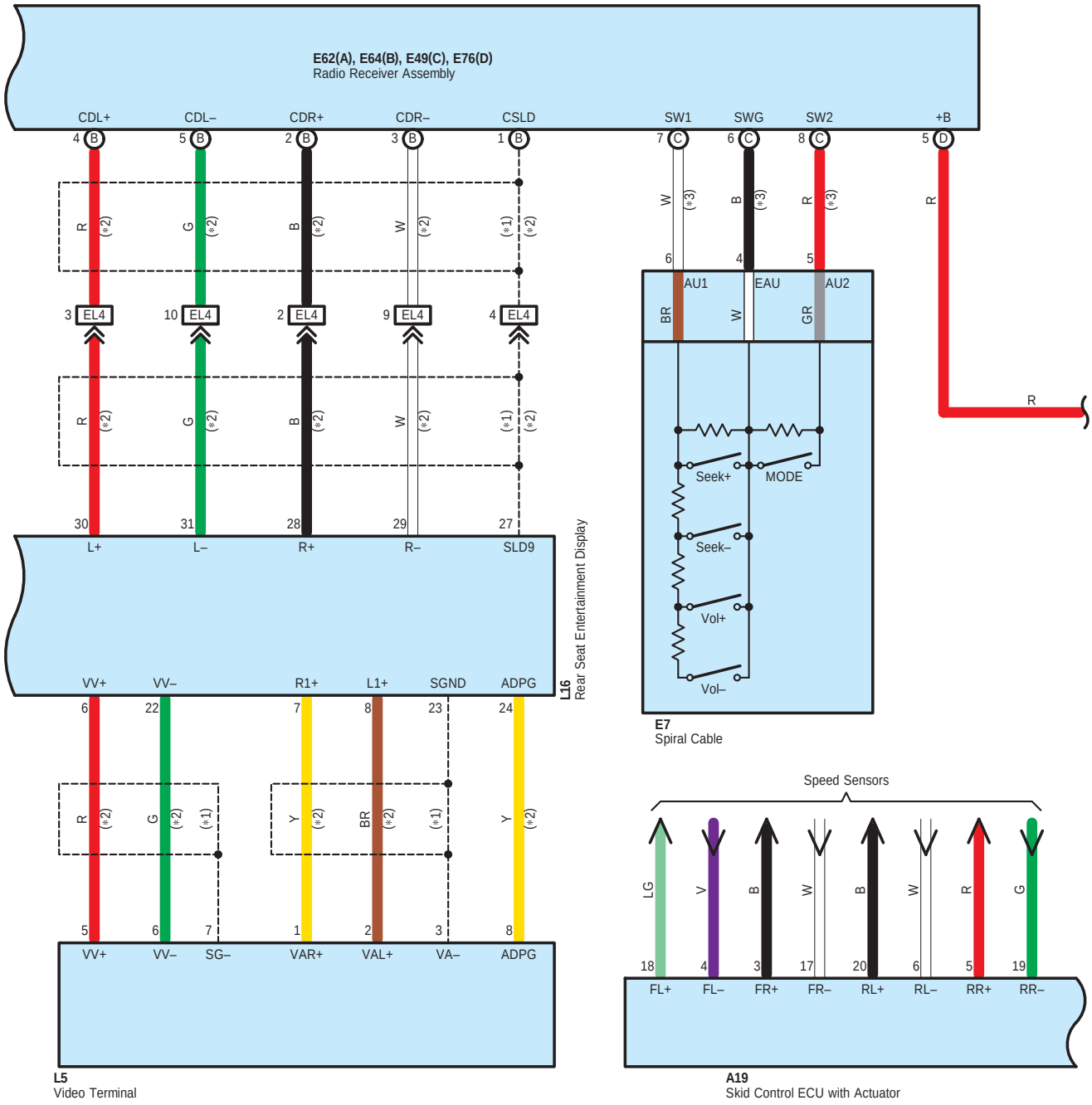


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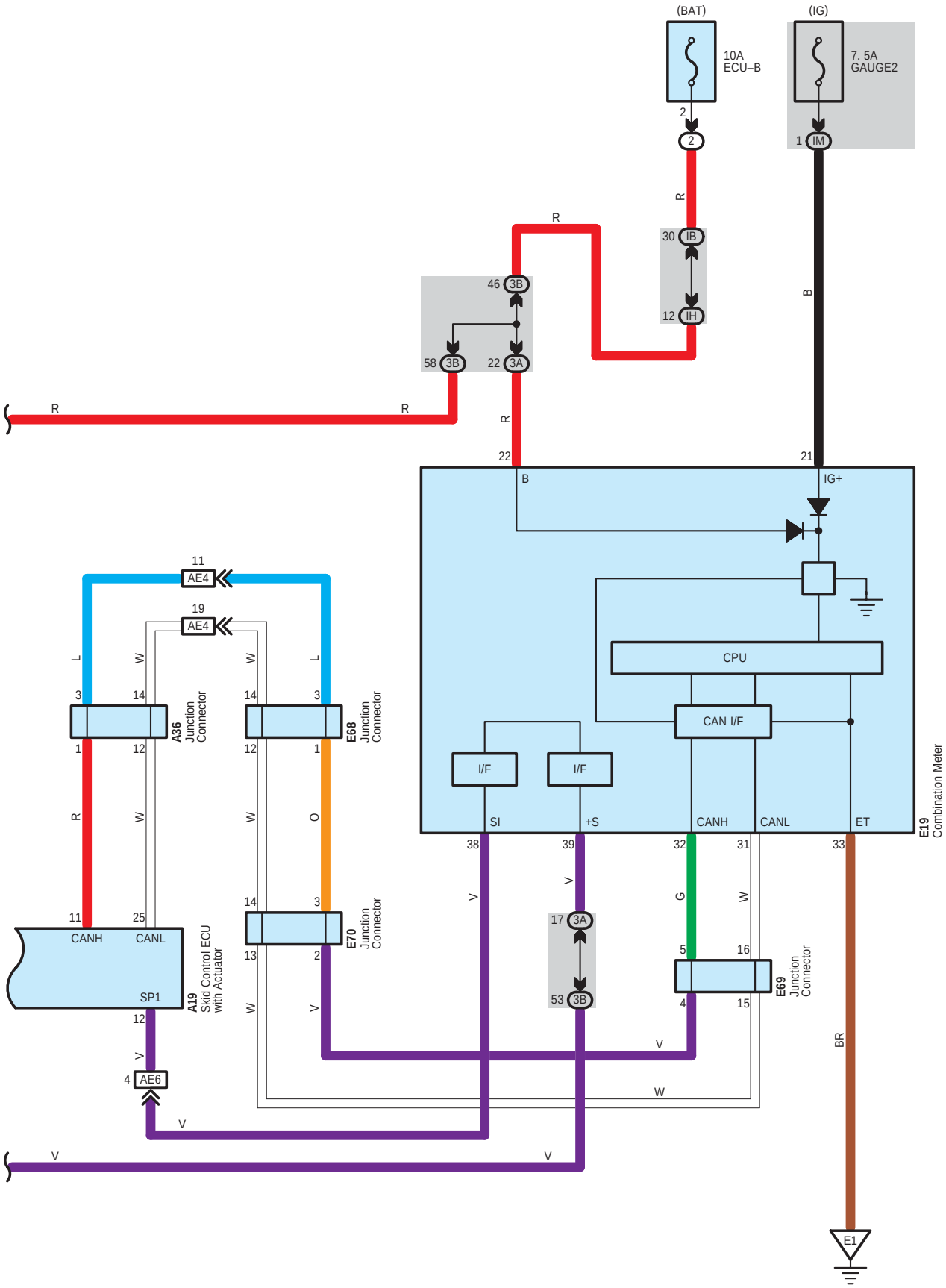


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* 1 : Shielded
* 2 : w/ Rear Seat Entertainment System
* 3 : w/ Audio SW in Steering Wheel



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A19	50 (2GR–FE)	E69	55	L13 A	60
	52 (2AZ–FE)	E70	55	L14 B	60
A36	56	E76 D	55	L15 C	60
E7	54	G1	58	L16	60
E19	54	G7	58	L21	60
E44	55	H1	58	L22	60
E49 C	55	H6	58	P5	61
E62 A	55	I2	58	Q5	61
E64 B	55	J2	58		
E68	55	L5	57		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IS		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE10	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EL3		
EL4		
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
QL2	67	Back Door No.3 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

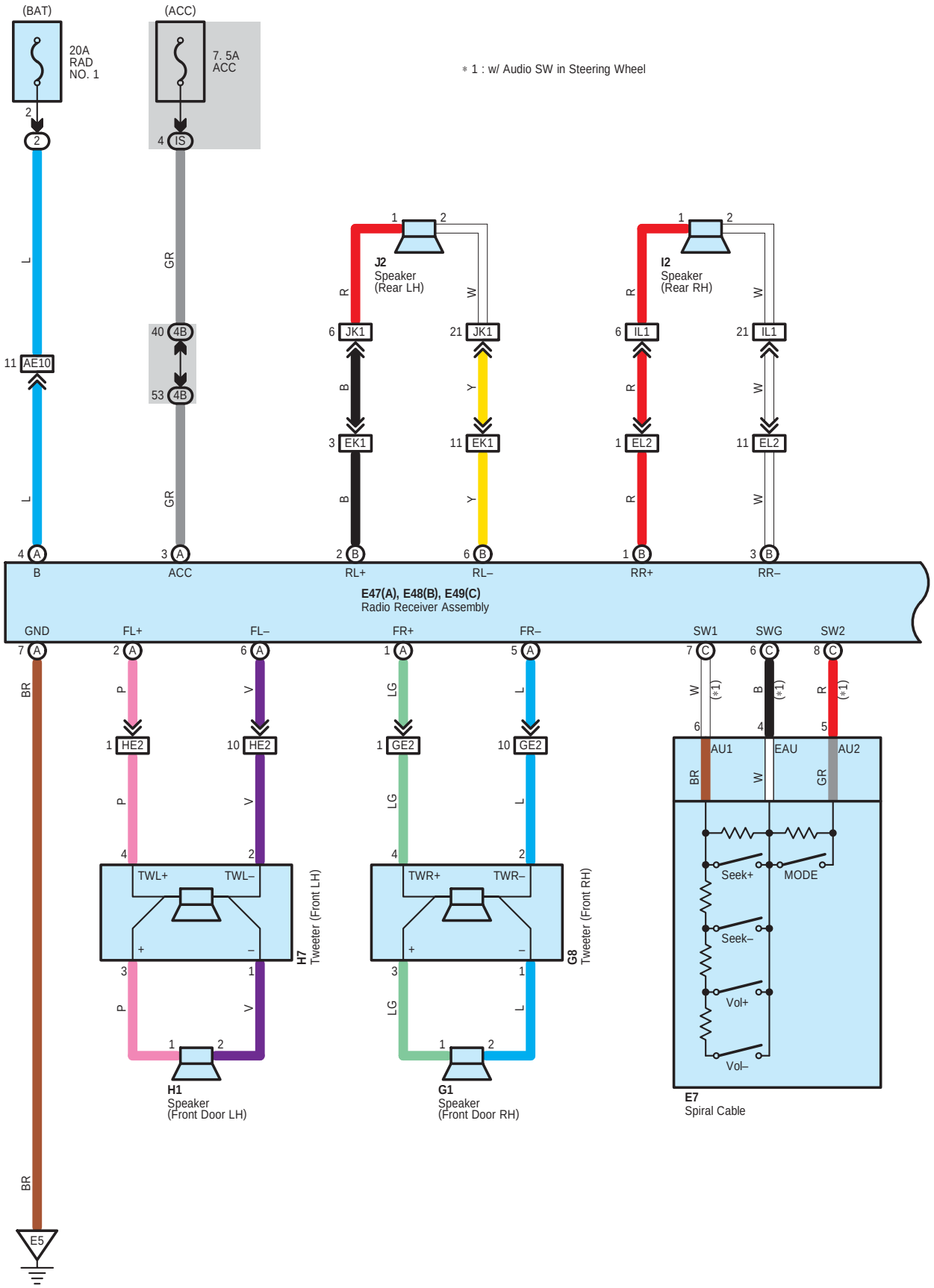
: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E5	66	Instrument Panel Reinforcement Center
L2	67	Right Quarter Panel

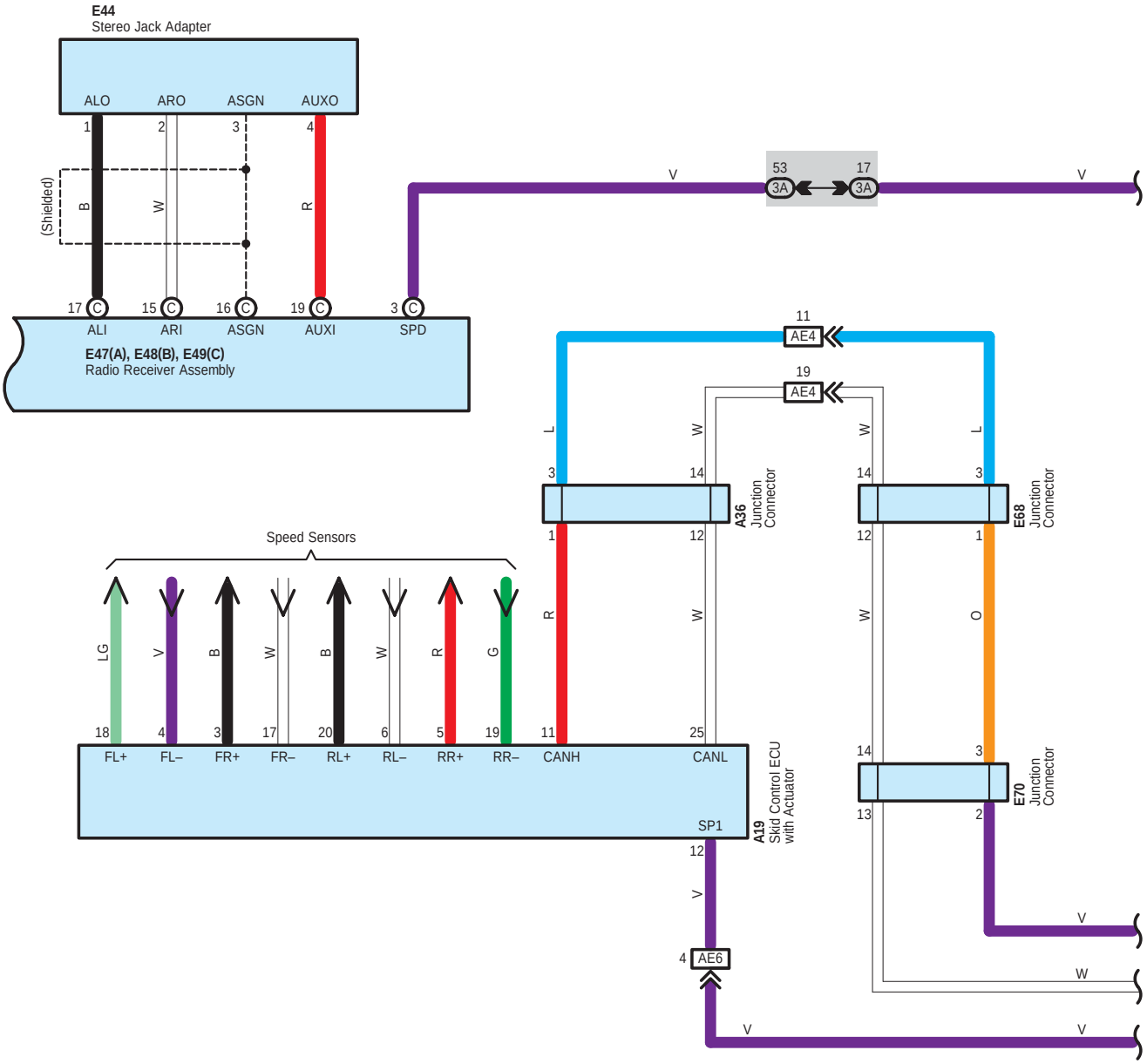
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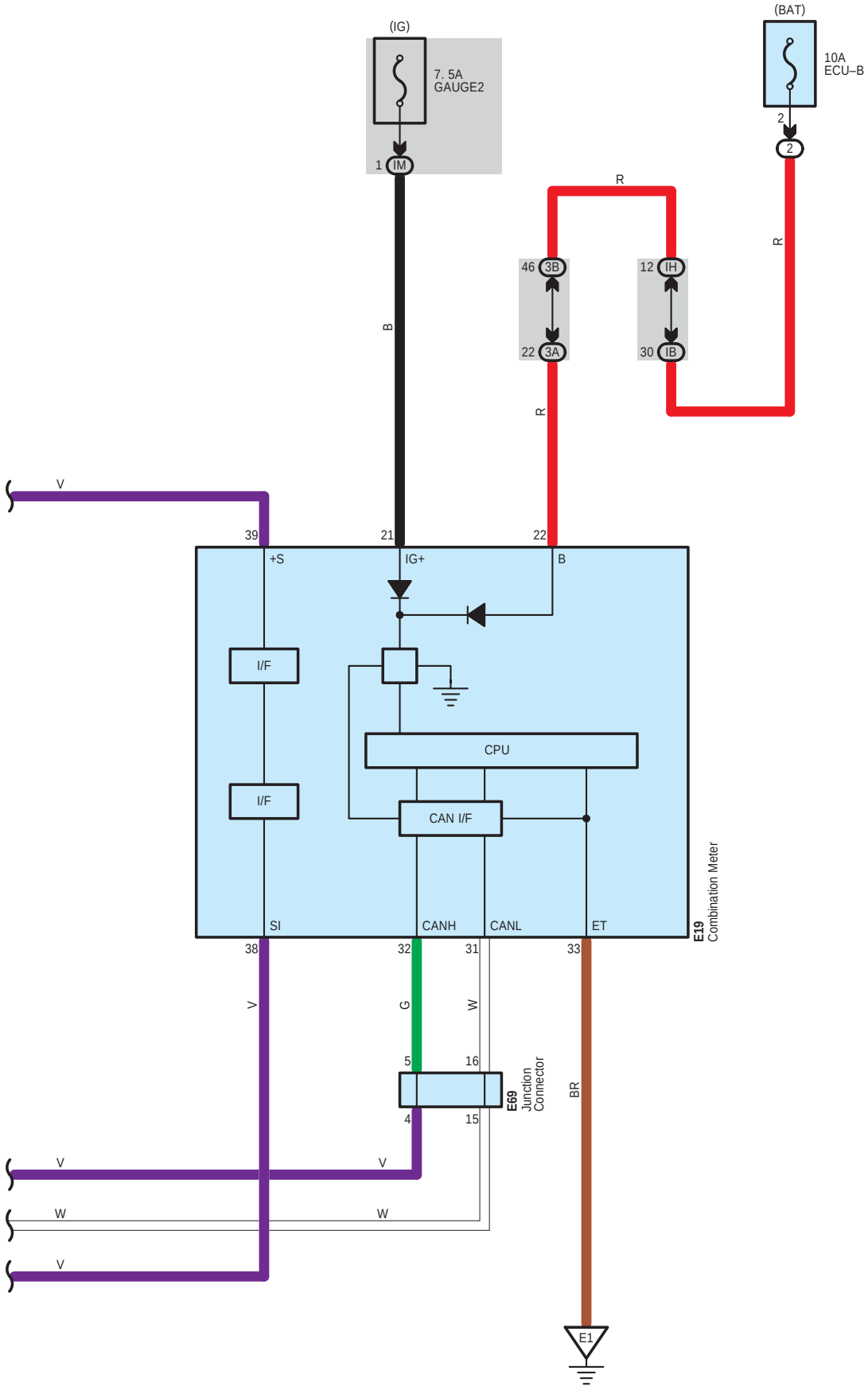
Audio System Except JBL



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: Parts Location

Code	See Page	Code		See Page	Code	See Page
A19	50 (2GR–FE)	E47	A	55	G1	58
	52 (2AZ–FE)	E48	B	55	G8	58
A36	56	E49	C	55	H1	58
E7	54	E68		55	H7	58
E19	54	E69		55	I2	58
E44	55	E70		55	J2	58

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	
IS		

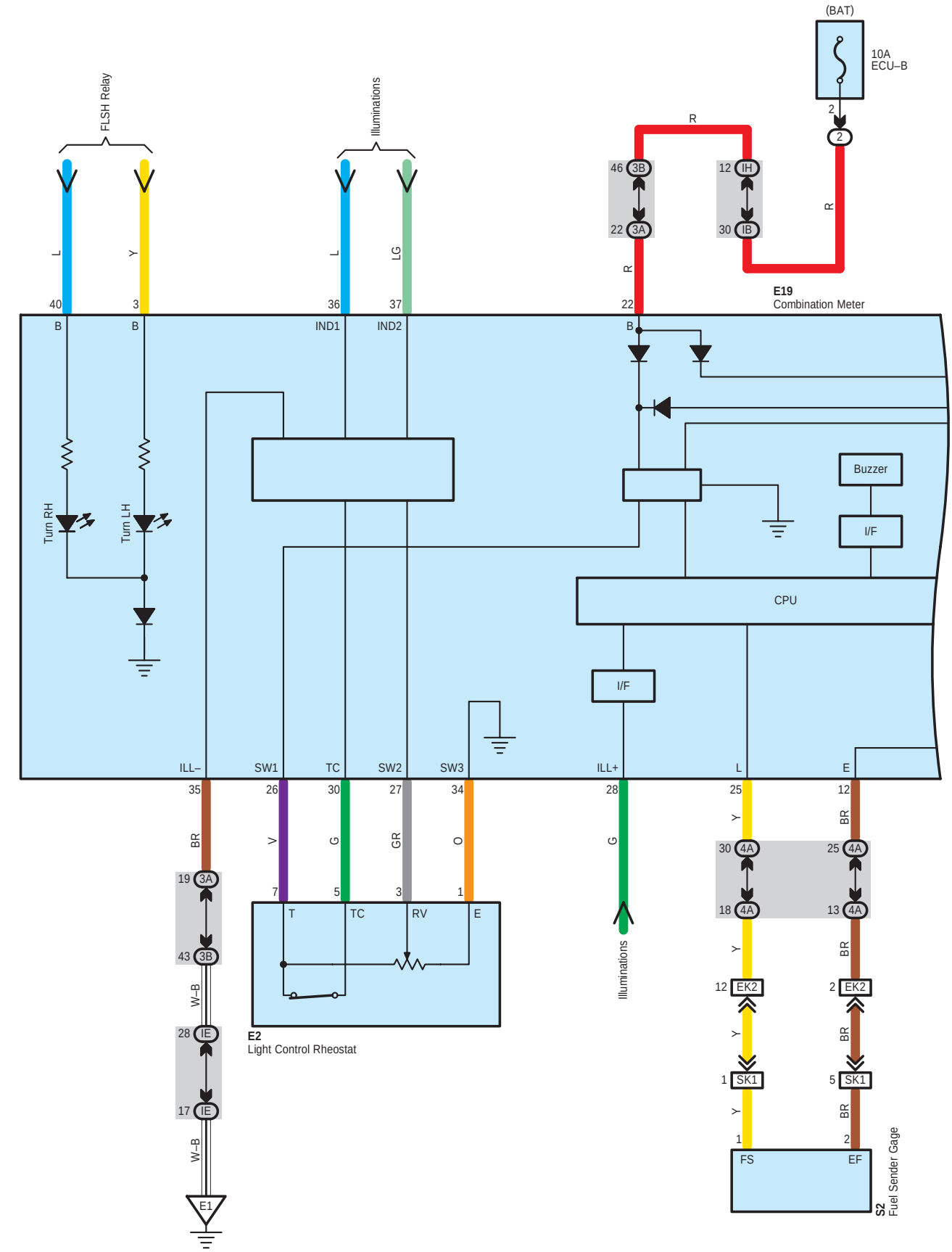
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE10	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)

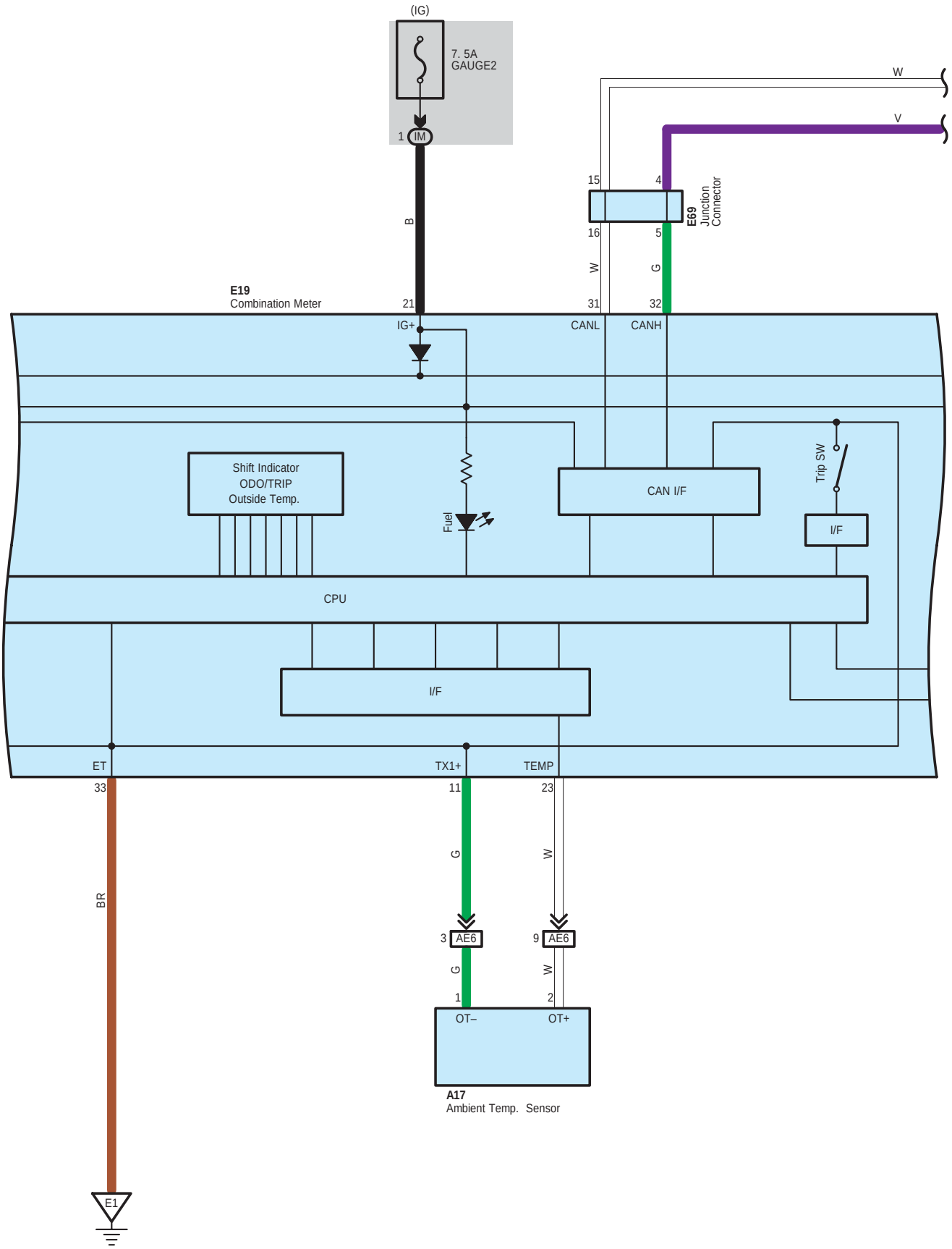
: Ground Points

Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E5	66	Instrument Panel Reinforcement Center

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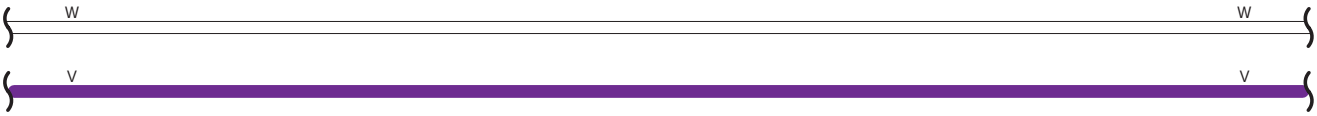


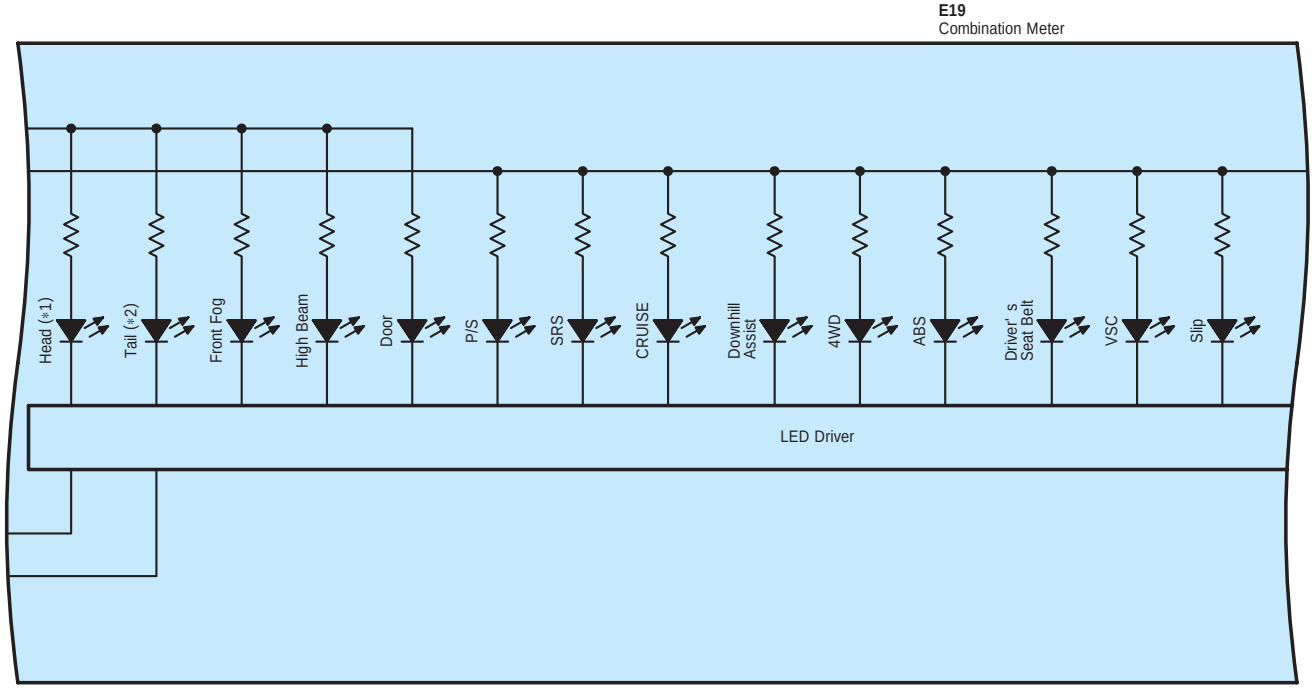
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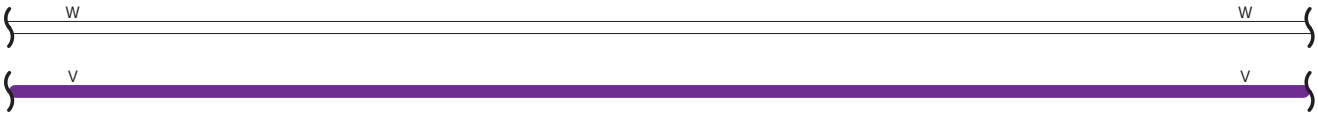
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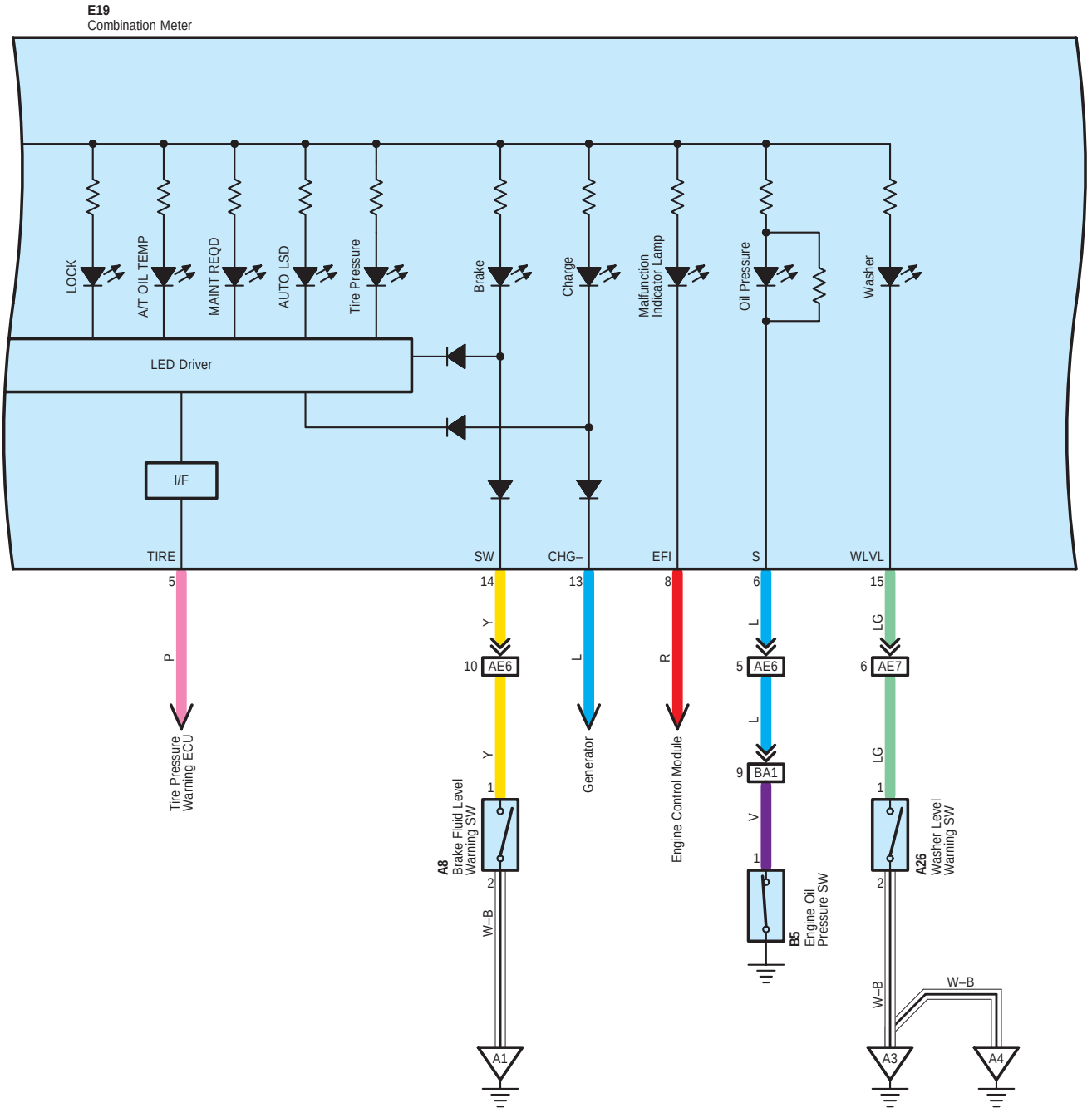
* 1 : USA
* 2 : Except USA



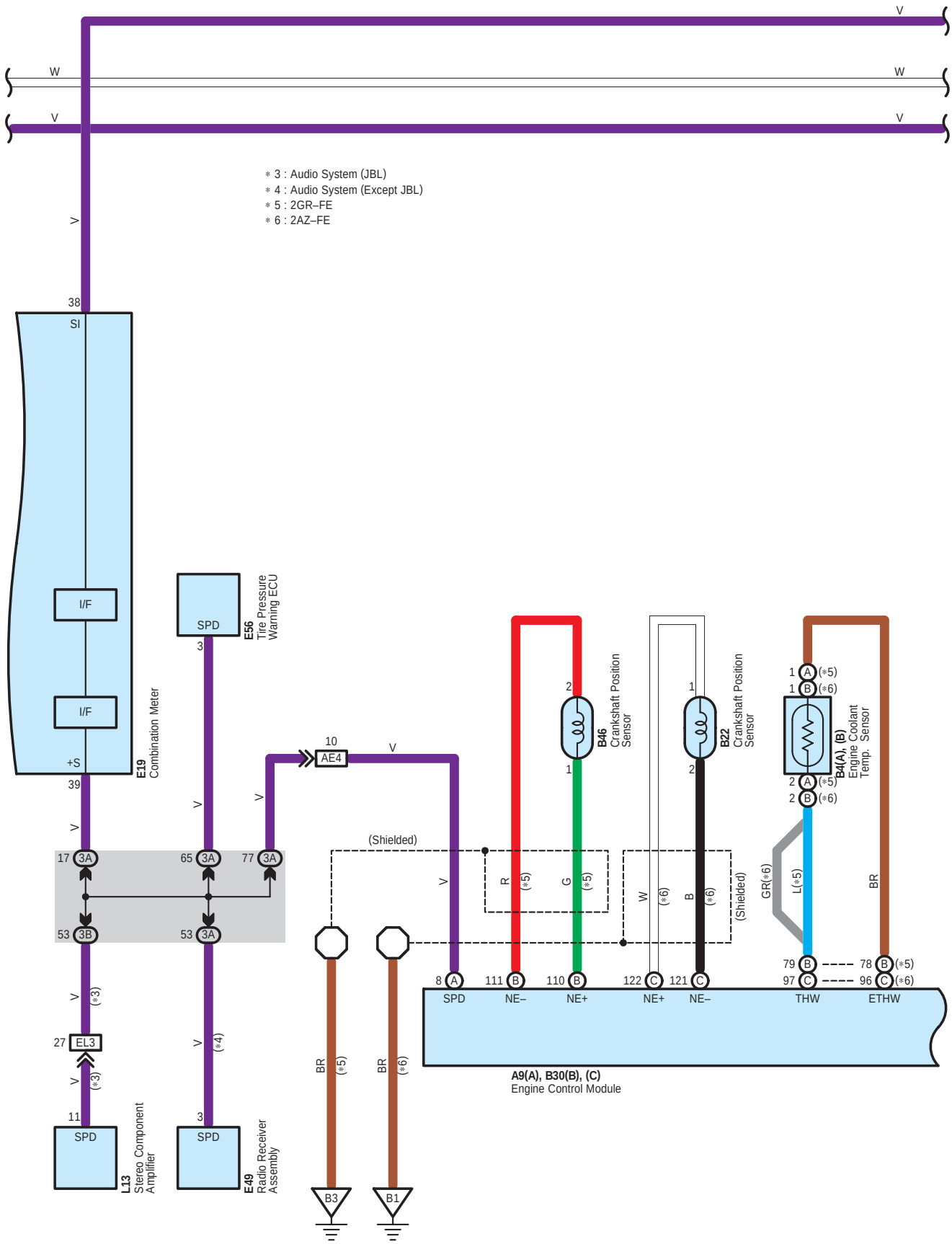


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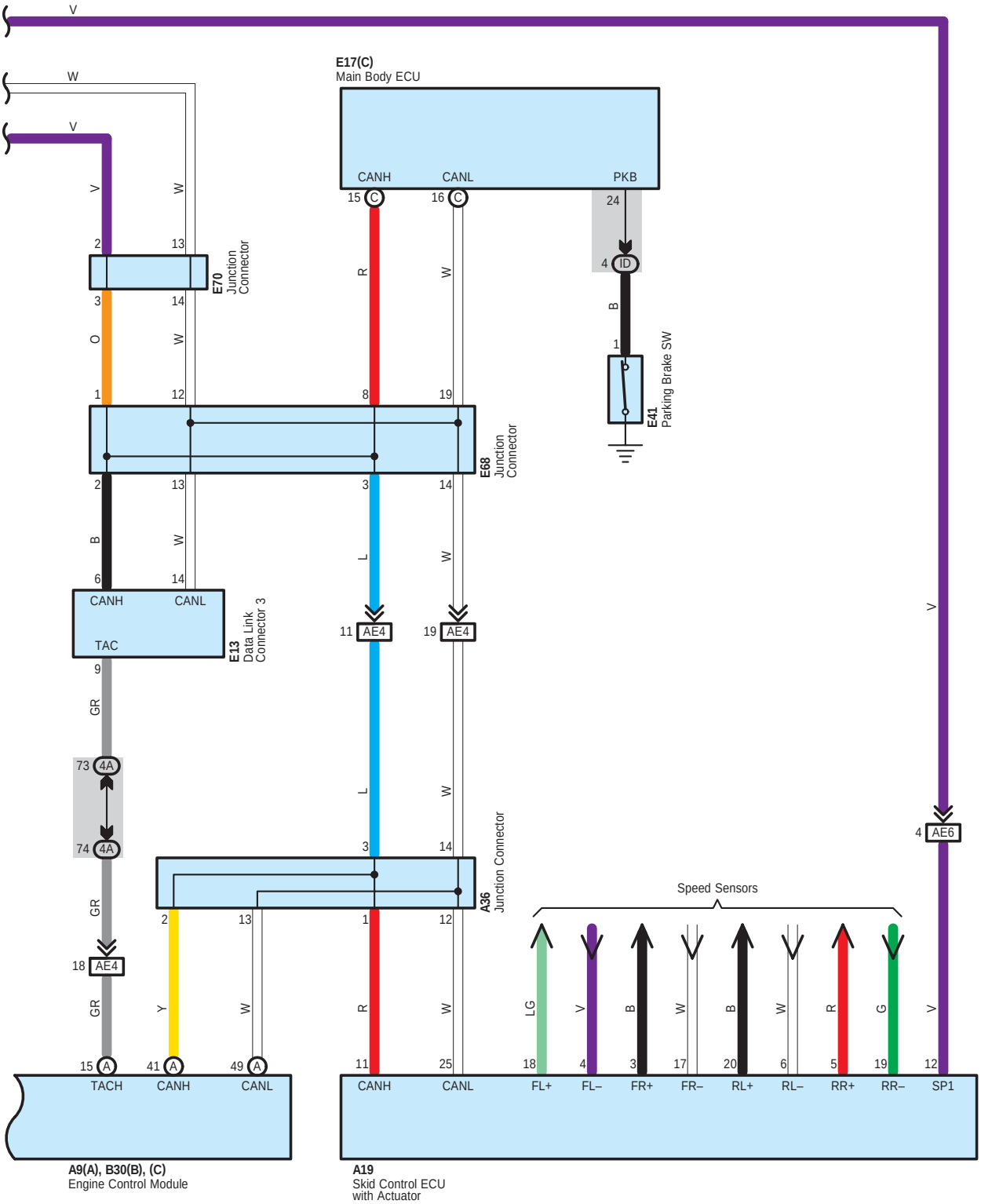




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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	50 (2GR–FE)	B4 A	51 (2GR–FE)	E19	54
	52 (2AZ–FE)	B4 B	53 (2AZ–FE)	E41	55
A9 A	50 (2GR–FE)	B5	51 (2GR–FE)	E49	55
	52 (2AZ–FE)		53 (2AZ–FE)	E56	55
A17	50 (2GR–FE)	B22	53 (2AZ–FE)	E68	55
	52 (2AZ–FE)	B30 B	51 (2GR–FE)	E69	55
A19	50 (2GR–FE)	B30 C	53 (2AZ–FE)	E70	55
	52 (2AZ–FE)	B46	51 (2GR–FE)	L13	60
A26	50 (2GR–FE)	E2	54	S2	61
	52 (2AZ–FE)	E13	54		
A36	56	E17 C	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IH		
IM	31	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
SK1	66	Fuel Gauge Wire and Floor Wire (Under the Console Box)

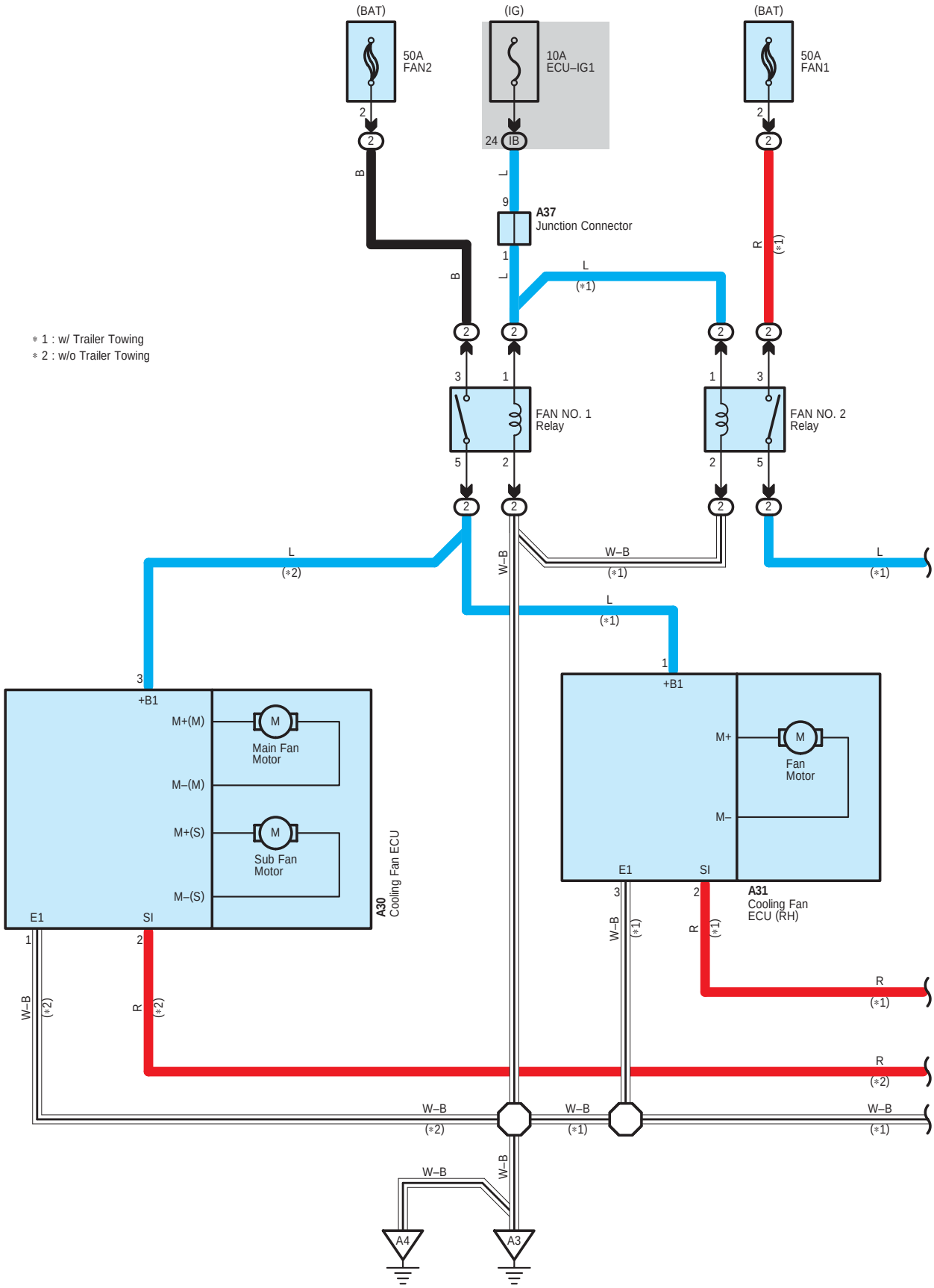
: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
A4	64 (2GR–FE)	
	65 (2AZ–FE)	
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B3	64 (2GR–FE)	
E1	66	Left Kick Panel

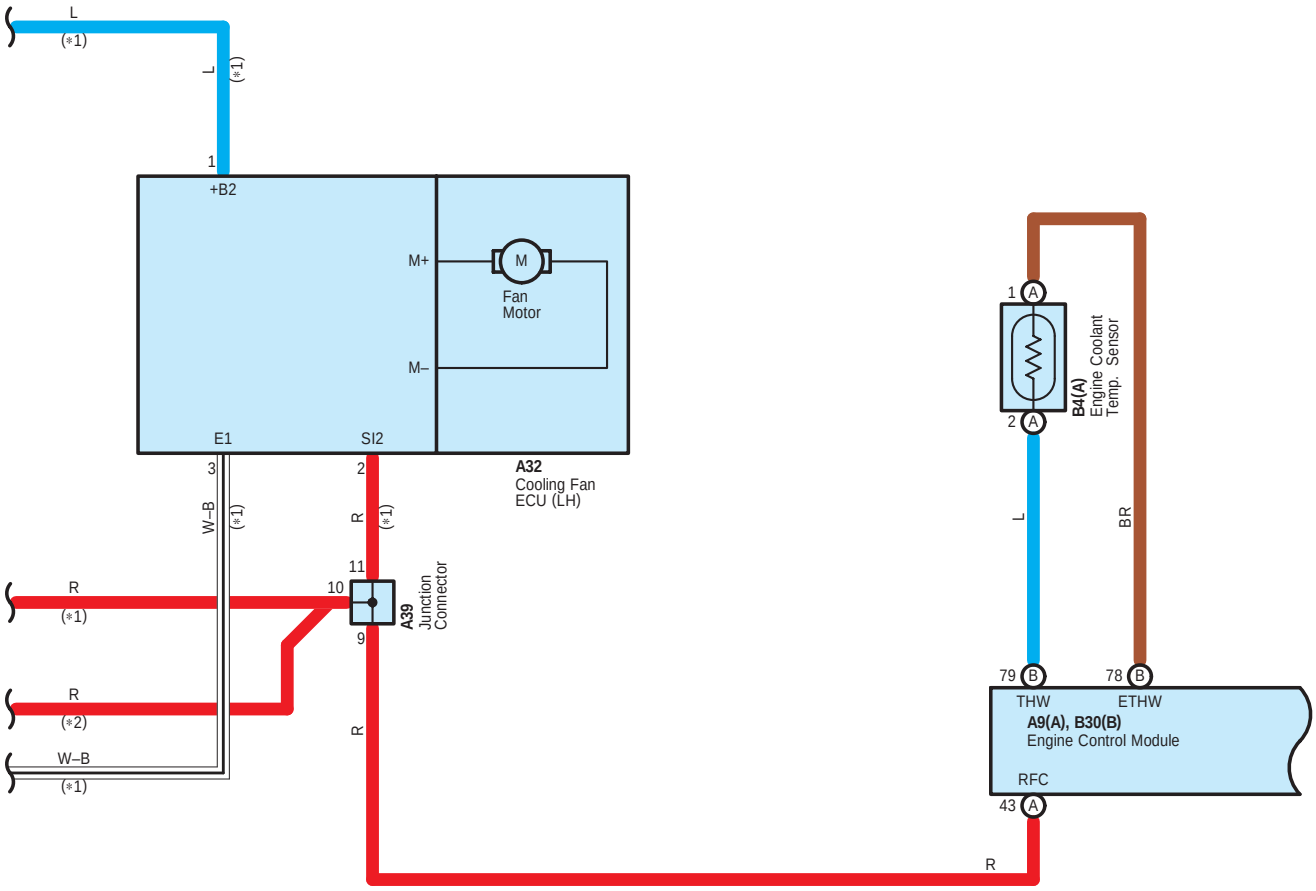
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Cooling Fan for 2GR–FE

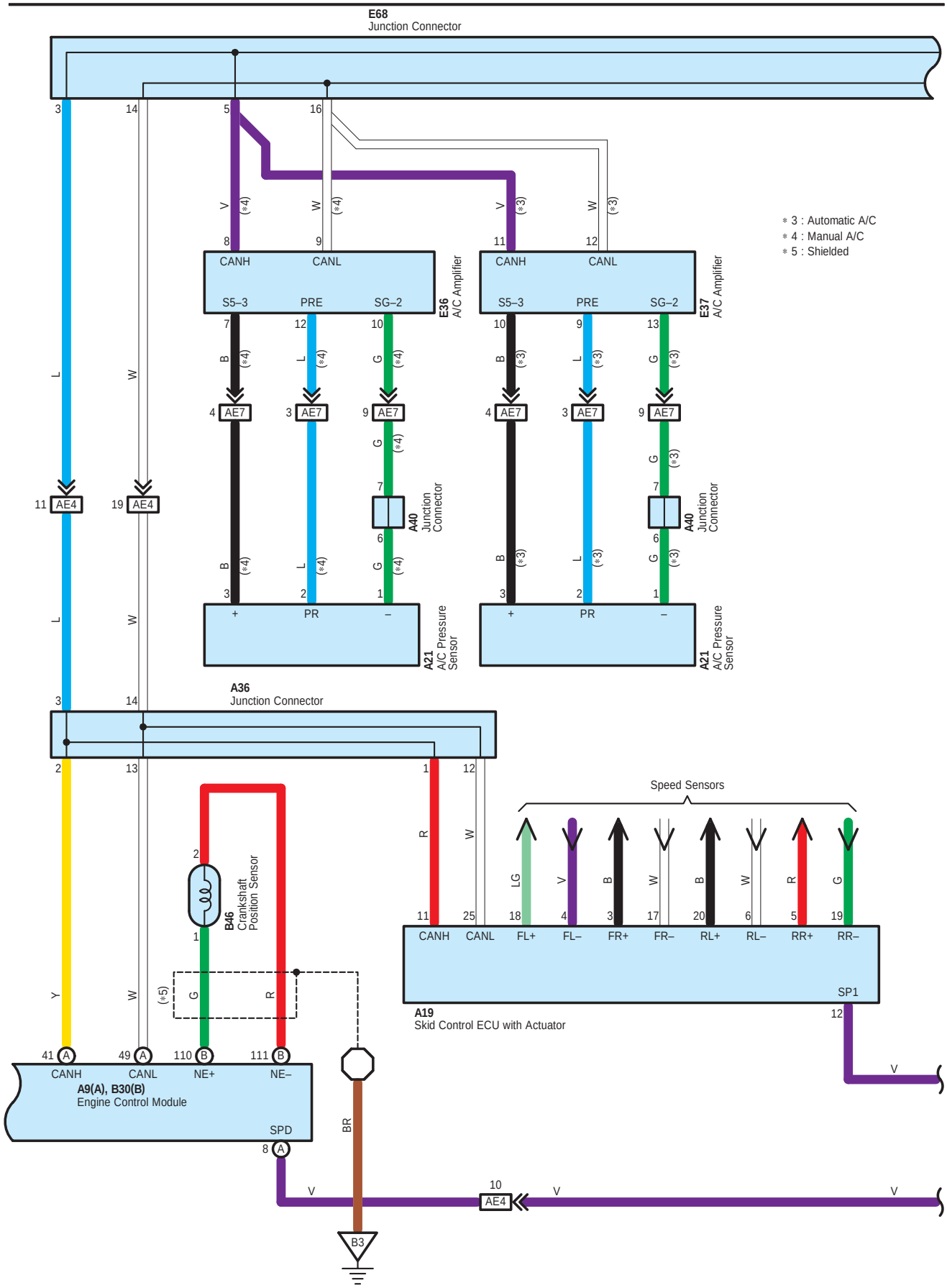


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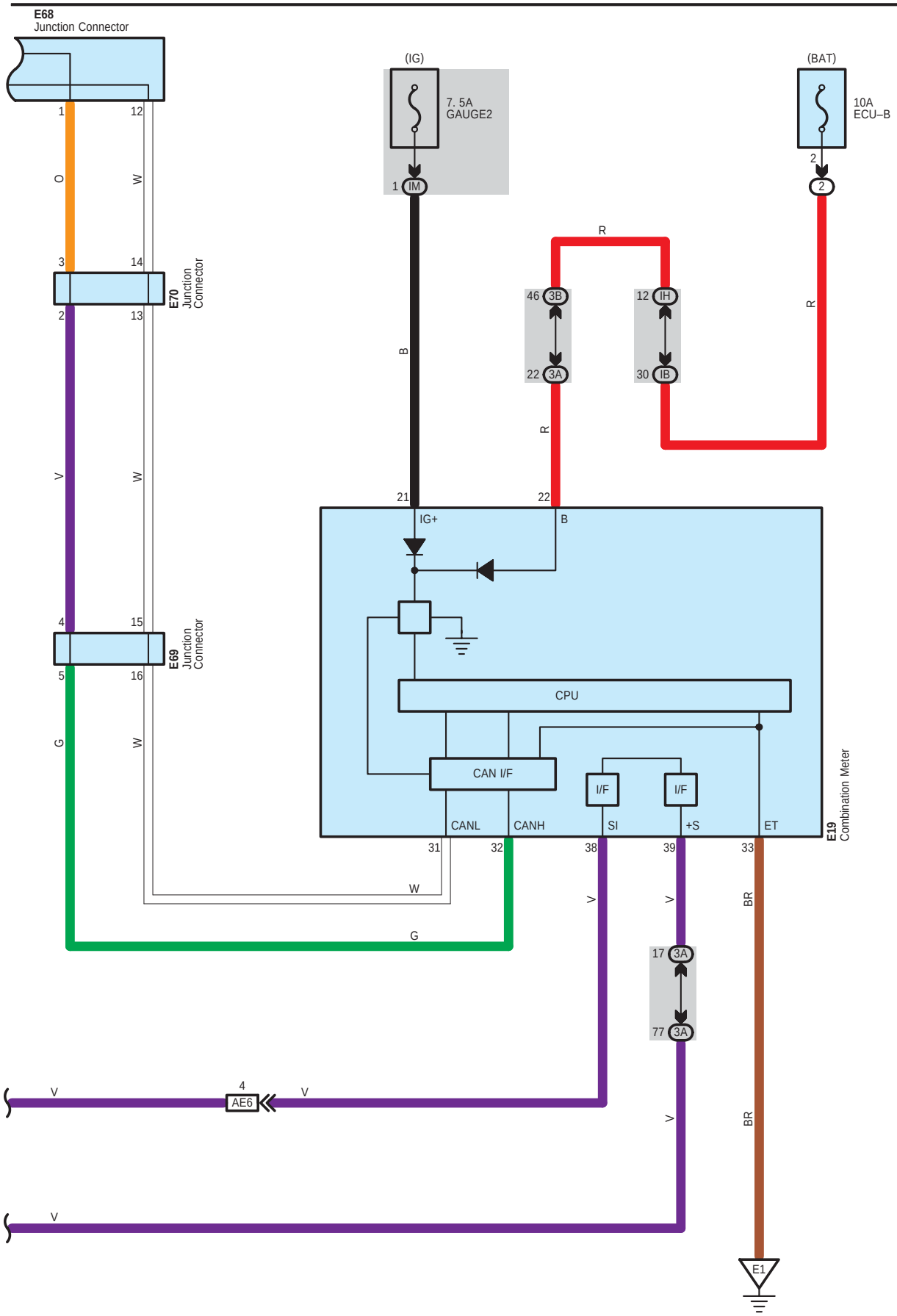


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Cooling Fan for 2GR–FE



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Cooling Fan for 2GR–FE

System Outline

In accordance with signals from the engine control module, which calculates the engine coolant temperature, the air conditioner refrigerant pressure and the engine and vehicle speeds, the cooling fan controller seamlessly controls rotational speed of the cooling fan, to maintain the balance between the cooling performance and the air conditioning performance.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	50 (2GR–FE)	A37	56	E36	55
A19	50 (2GR–FE)	A39	50 (2GR–FE)	E37	55
A21	50 (2GR–FE)	A40	50 (2GR–FE)	E68	55
A30	50 (2GR–FE)	B4 A	51 (2GR–FE)	E69	55
A31	50 (2GR–FE)	B30 B	51 (2GR–FE)	E70	55
A32	50 (2GR–FE)	B46	51 (2GR–FE)		
A36	56	E19	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	

: Connector Joining Wire Harness and Wire Harness

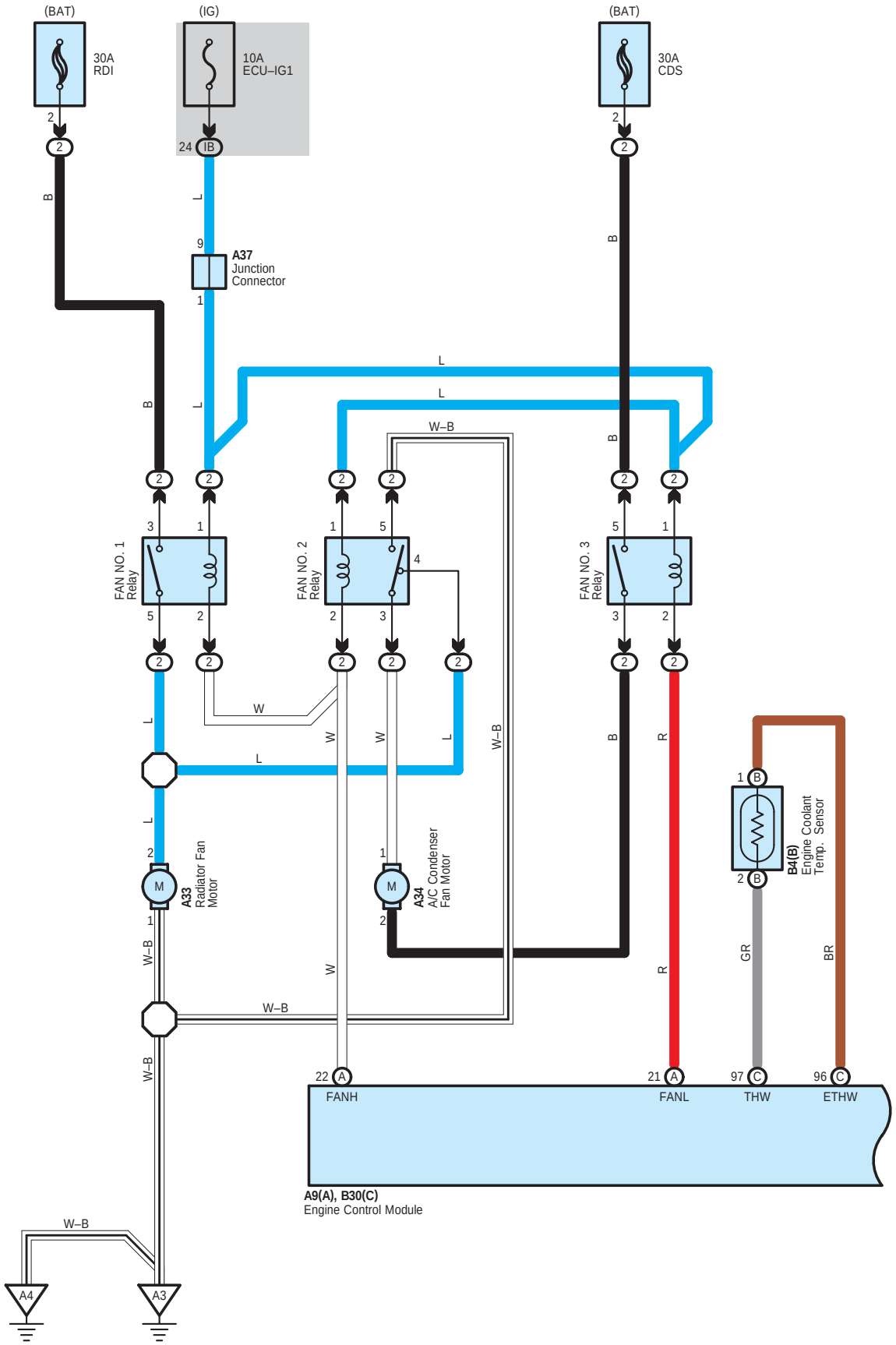
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

▽ : Ground Points

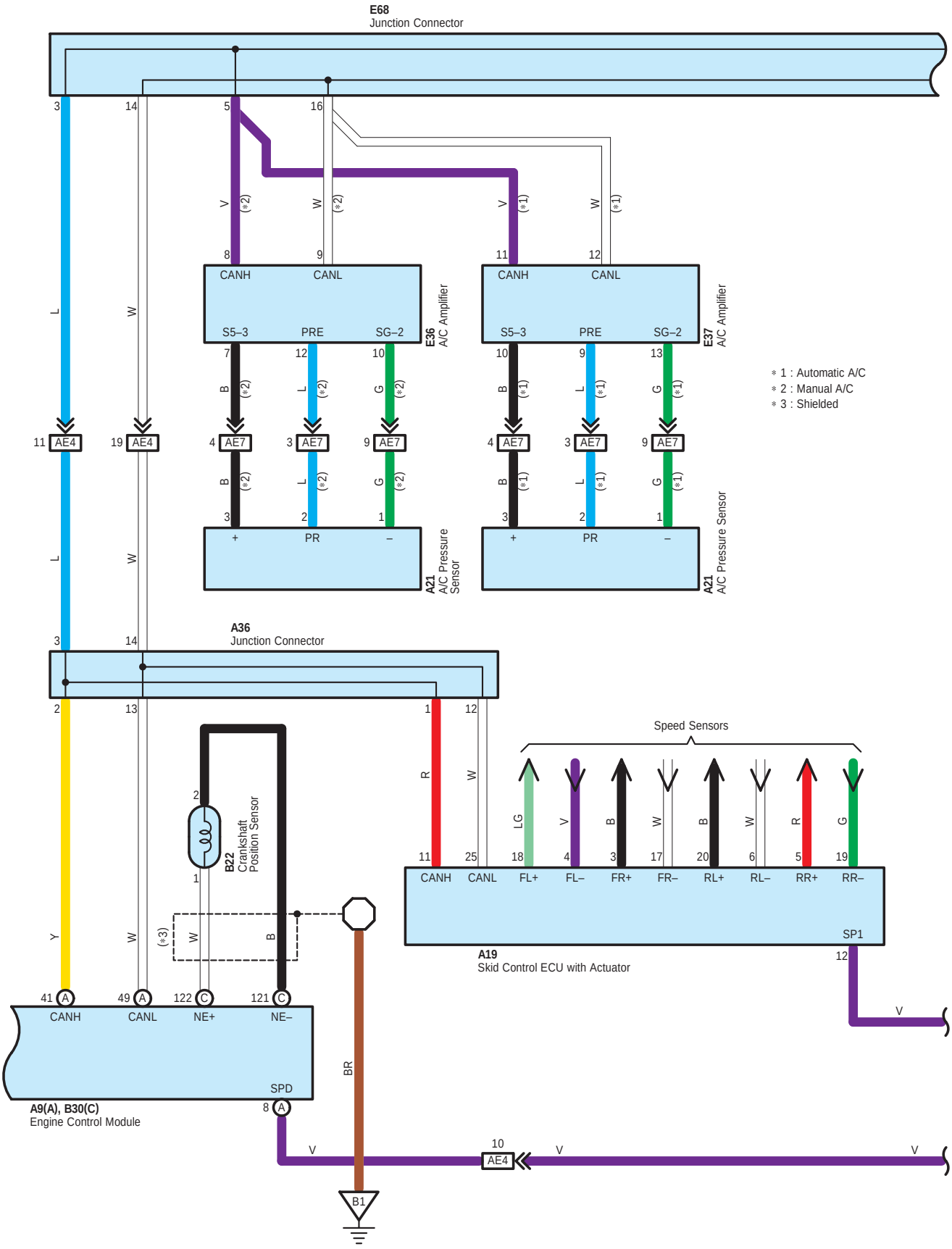
Code	See Page	Ground Points Location
A3	64 (2GR–FE)	Front Right Fender
A4		
B3	64 (2GR–FE)	Left Side of the Cylinder Head
E1	66	Left Kick Panel

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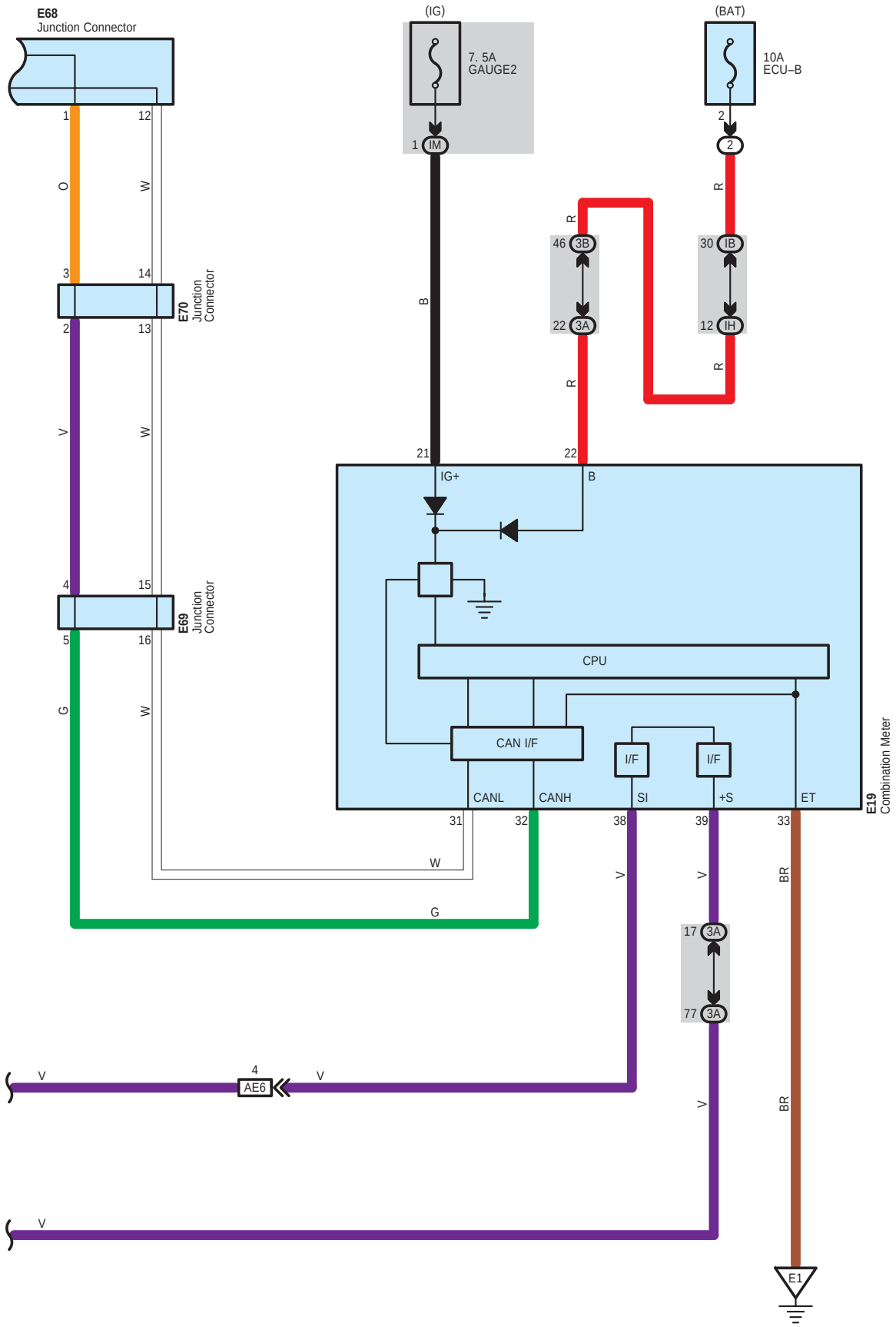


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Radiator Fan and Condenser Fan for 2AZ–FE



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System Outline

In accordance with signals from the engine control module, which calculates the engine coolant temperature, the air conditioner refrigerant pressure and the engine and vehicle speeds, the fan relay is activated to control the fan motor in two steps, to maintain the balance between the cooling performance and the air conditioning performance.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	52 (2AZ–FE)	A37	56	E37	55
A19	52 (2AZ–FE)	B4 B	53 (2AZ–FE)	E68	55
A21	52 (2AZ–FE)	B22	53 (2AZ–FE)	E69	55
A33	52 (2AZ–FE)	B30 C	53 (2AZ–FE)	E70	55
A34	52 (2AZ–FE)	E19	54		
A36	56	E36	55		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	27 (2AZ–FE)	Engine Room R/B No.2 (Engine Compartment Right)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	

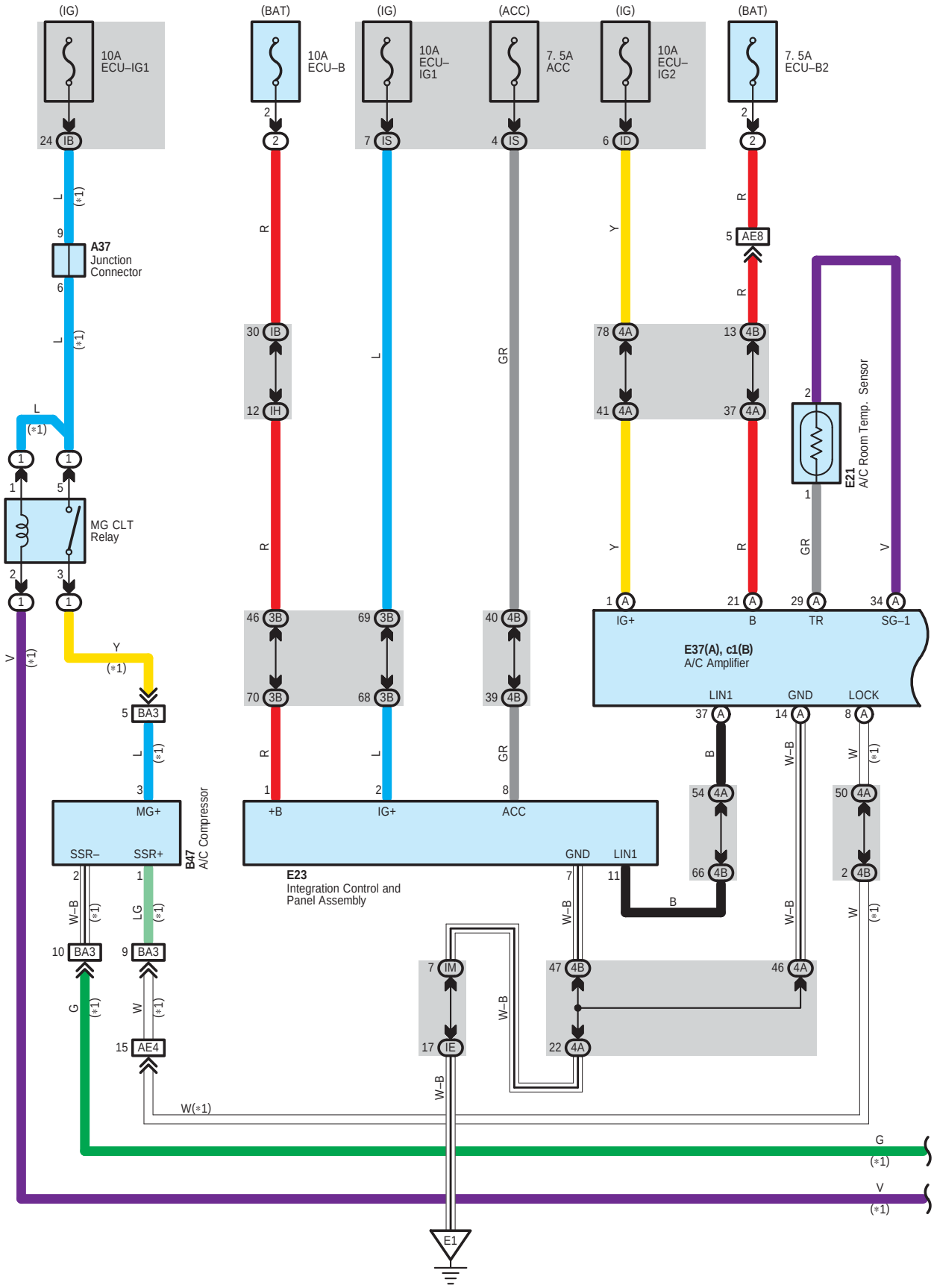
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

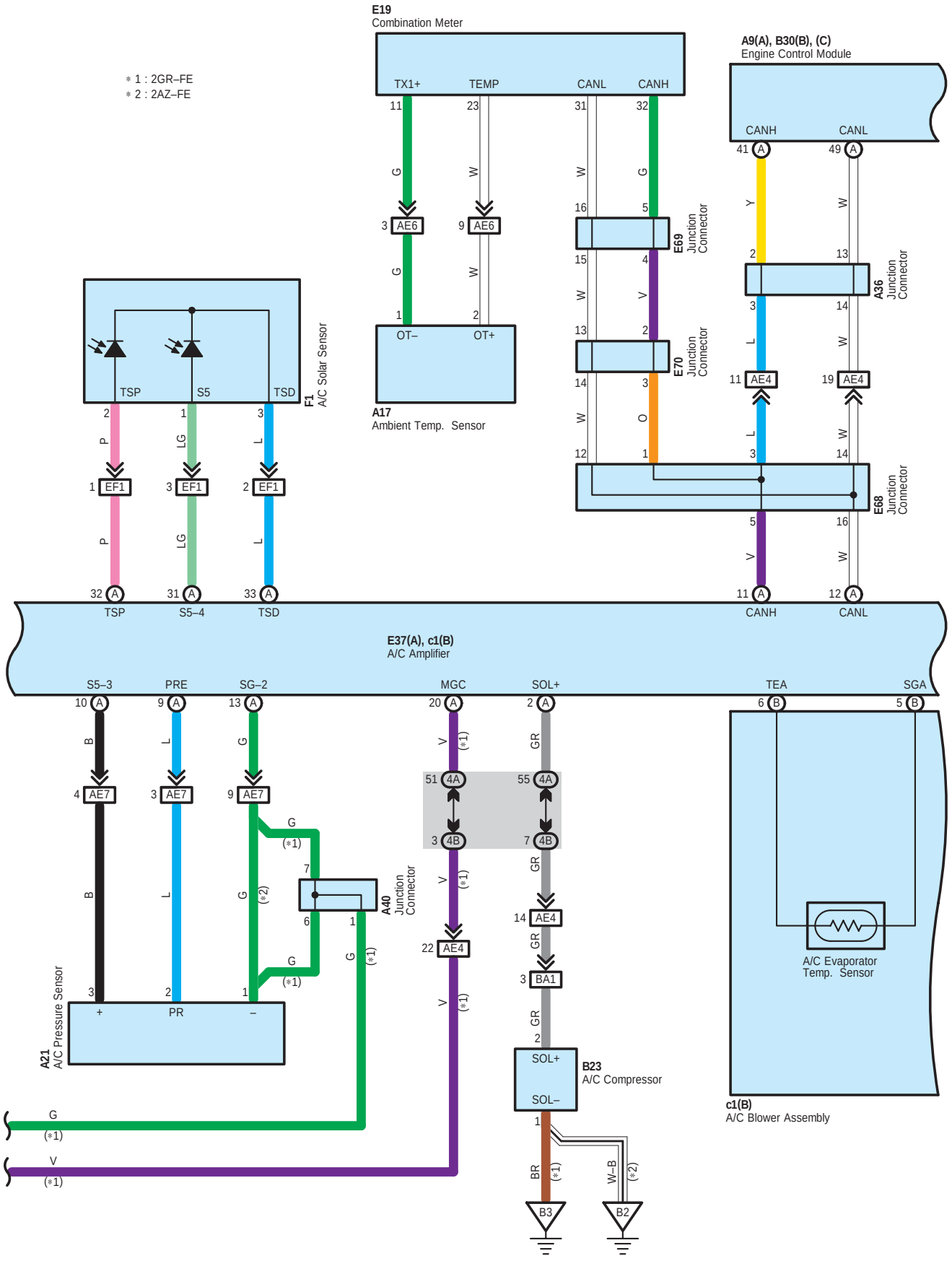
: Ground Points

Code	See Page	Ground Points Location
A3	65 (2AZ–FE)	Front Right Fender
A4		
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
E1	66	Left Kick Panel

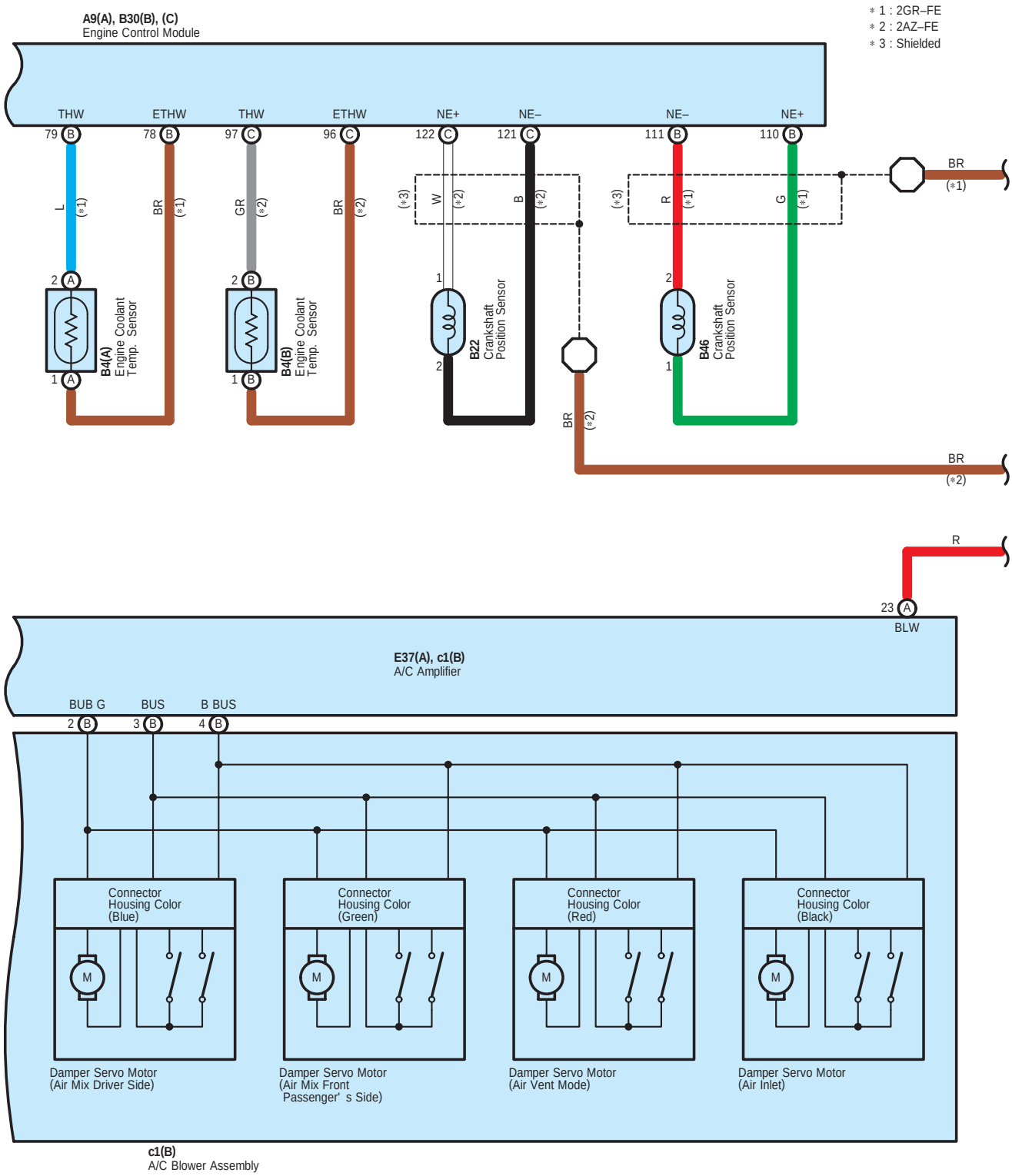
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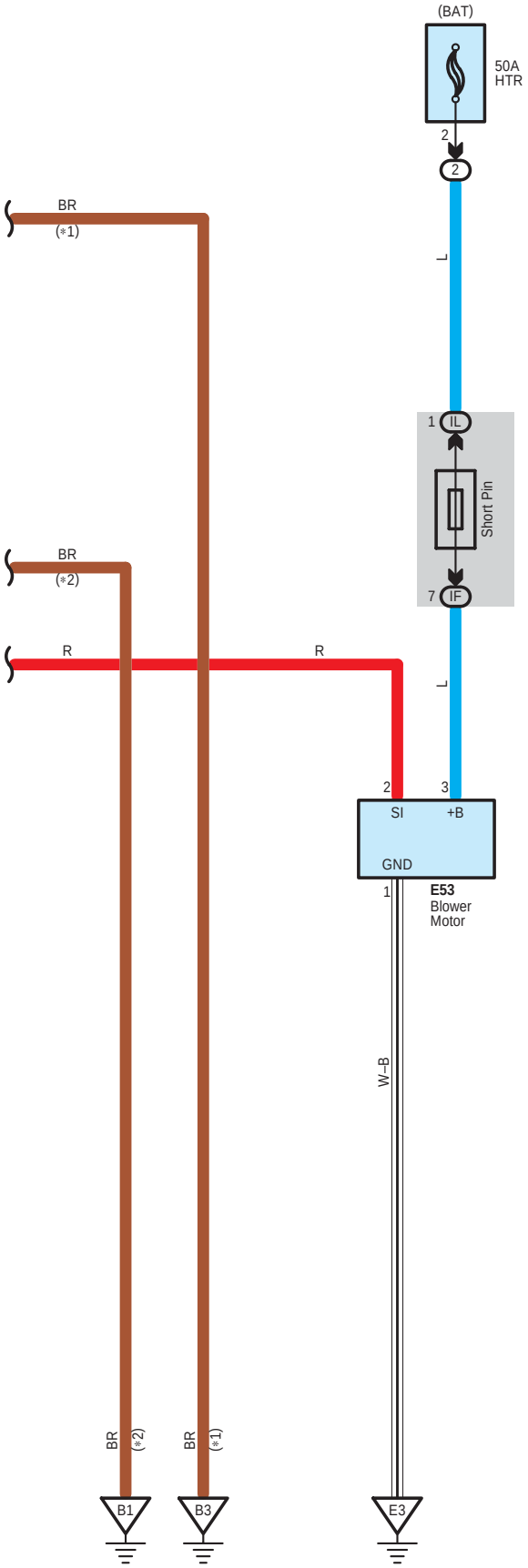
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9 A	50 (2GR–FE)	B4 A	51 (2GR–FE)	E21	54
	52 (2AZ–FE)	B4 B	53 (2AZ–FE)	E23	54
A17	50 (2GR–FE)	B22	53 (2AZ–FE)	E37 A	55
	52 (2AZ–FE)	B23	51 (2GR–FE)	E53	55
A21	50 (2GR–FE)		53 (2AZ–FE)	E68	55
	52 (2AZ–FE)	B30 B	51 (2GR–FE)	E69	55
A36	56	B30 C	53 (2AZ–FE)	E70	55
A37	56	B46	51 (2GR–FE)	F1	57
A40	50 (2GR–FE)	B47	51 (2GR–FE)	c1 B	57
	52 (2AZ–FE)	E19	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IF		
IH		
IL	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IS		

: Connector Joining Wire Harness and Wire Harness

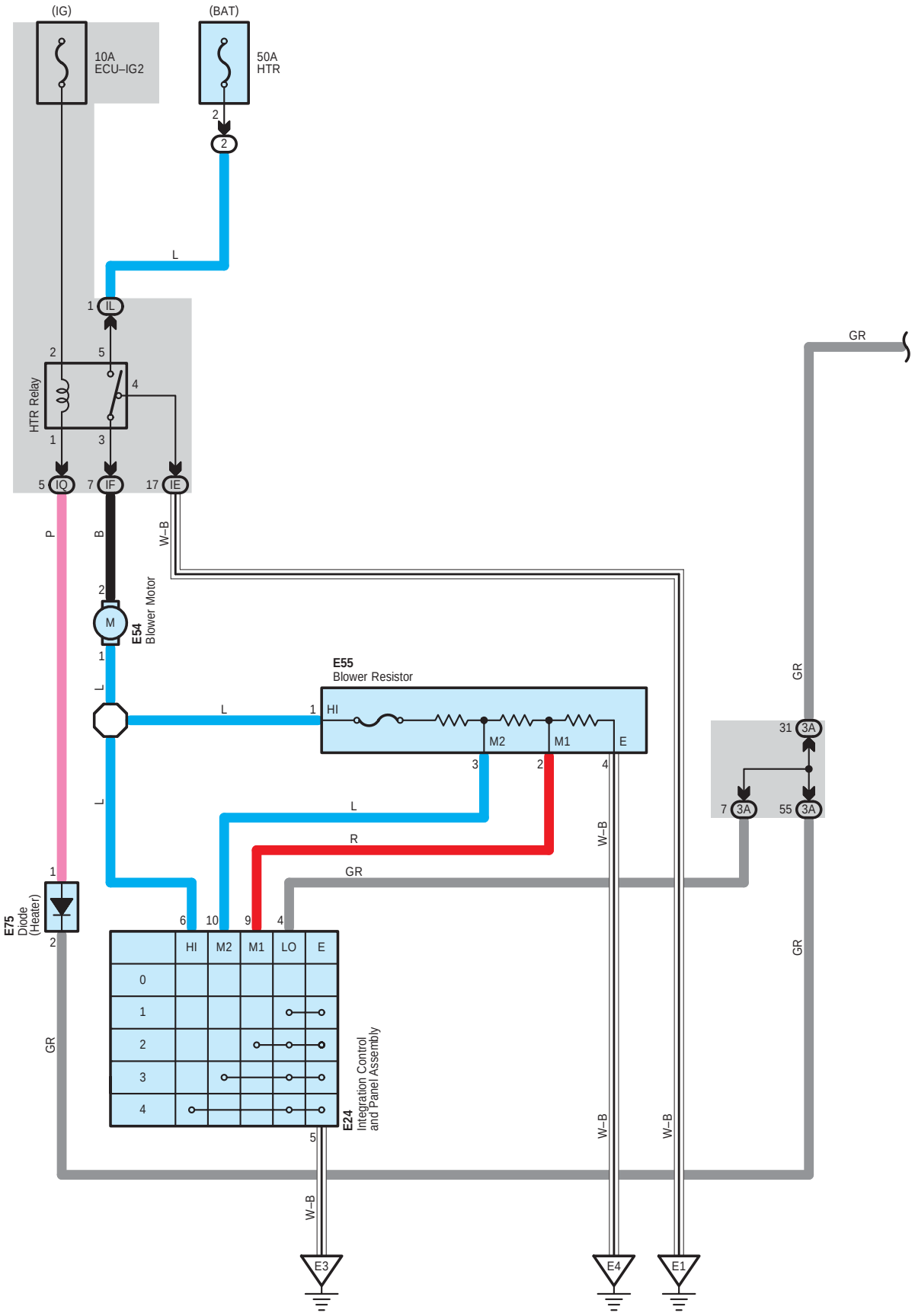
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE6		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
AE8		
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
BA3	64 (2GR–FE)	
EF1	66	Instrument Panel Wire and Instrument Panel No.2 Wire (Left Side of the Instrument Panel)

: Ground Points

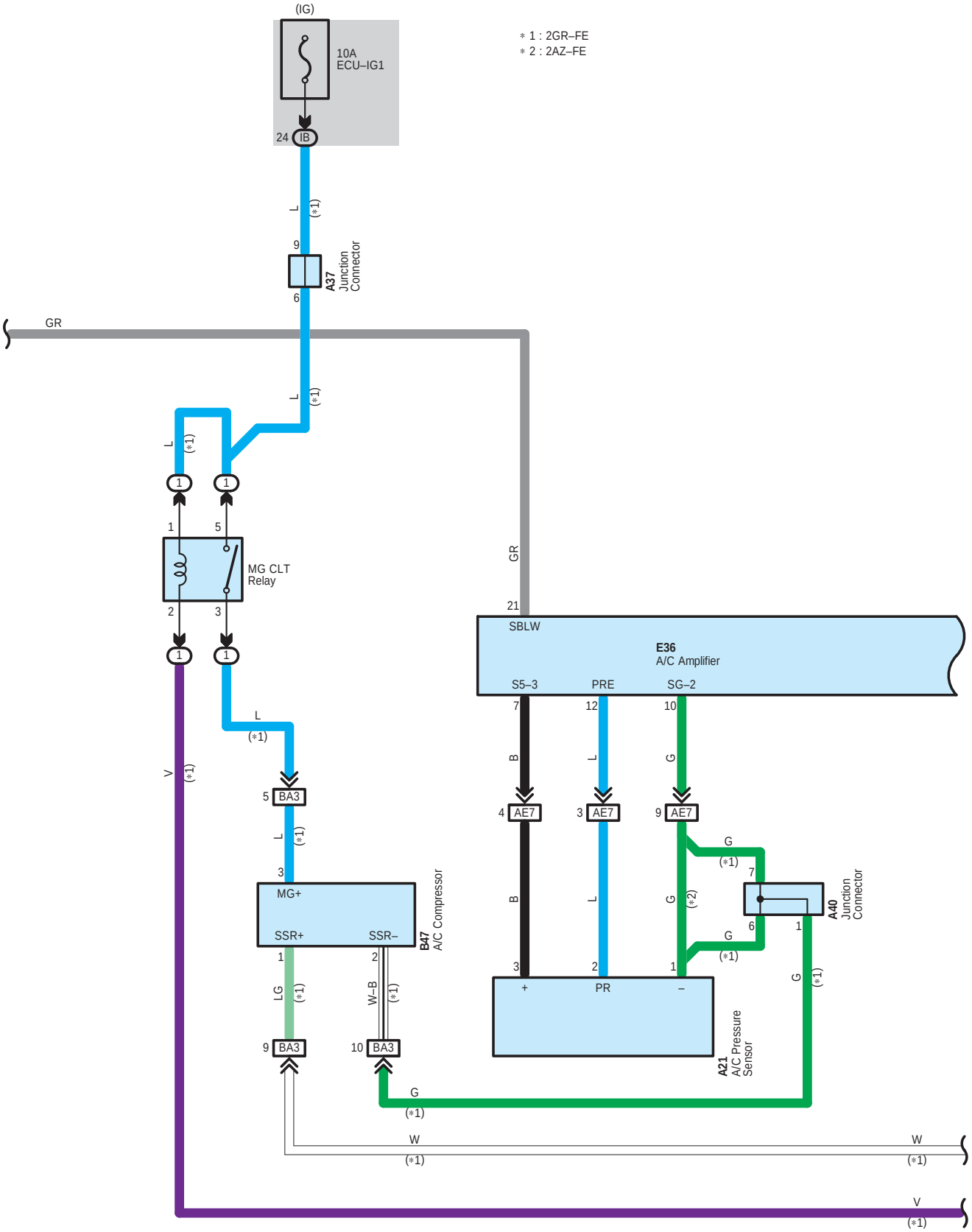
Code	See Page	Ground Points Location
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
B3	64 (2GR–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center

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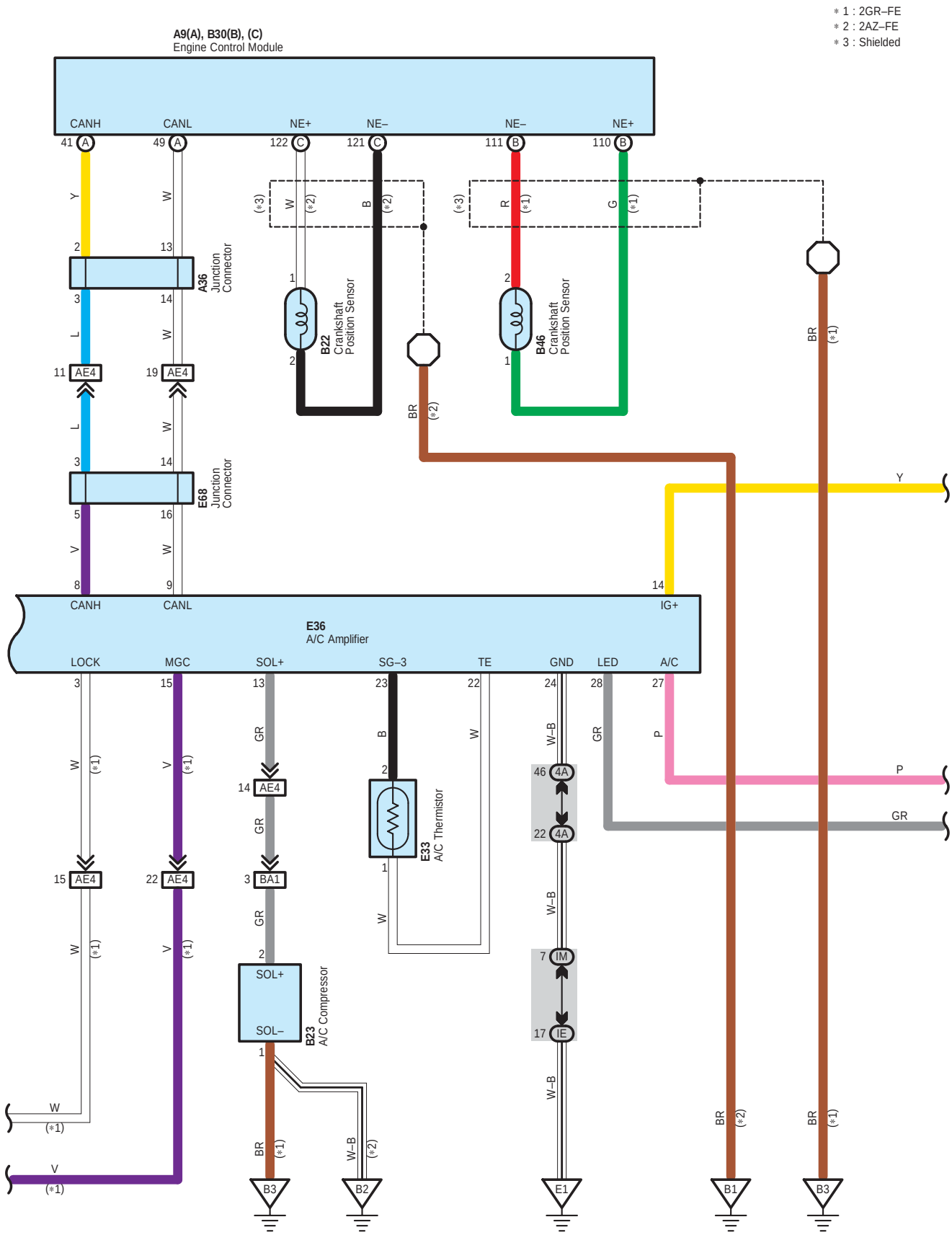
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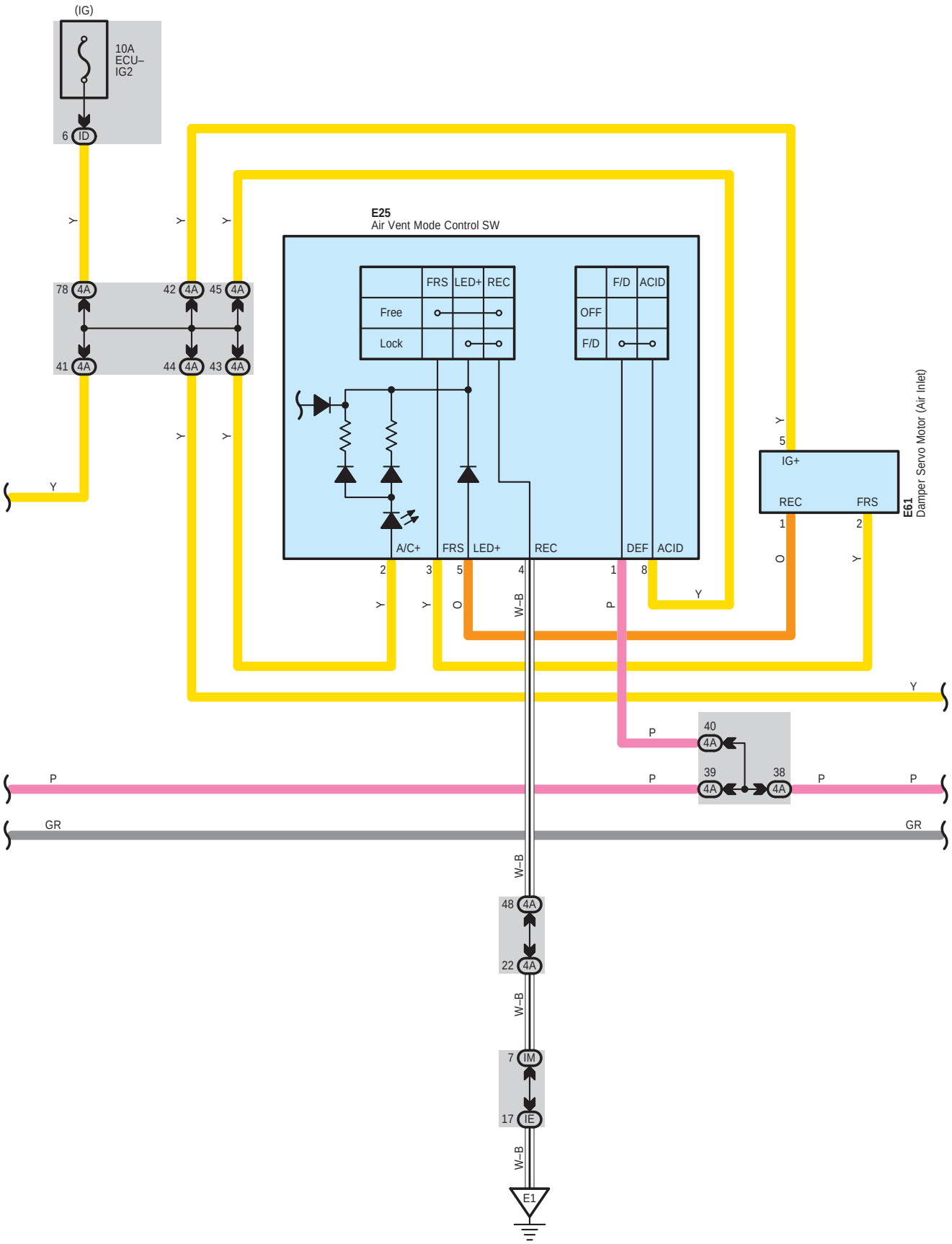
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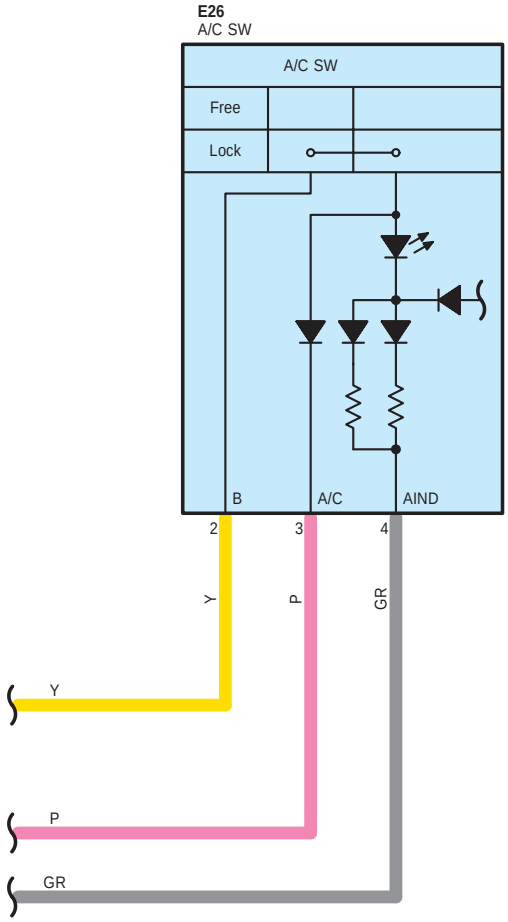
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: Parts Location

Code		See Page	Code		See Page	Code	See Page
A9	A	50 (2GR–FE)	B23		51 (2GR–FE)	E33	54
		52 (2AZ–FE)			53 (2AZ–FE)	E36	55
A21		50 (2GR–FE)	B30	B	51 (2GR–FE)	E54	55
		52 (2AZ–FE)		C	53 (2AZ–FE)	E55	55
A36		56	B46		51 (2GR–FE)	E61	55
A37		56	B47		51 (2GR–FE)	E68	55
A40		50 (2GR–FE)	E24		54	E75	55
		52 (2AZ–FE)	E25		54		
B22		53 (2AZ–FE)	E26		54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IE		
IF		
IL		
IM	31	
IQ		

: Connector Joining Wire Harness and Wire Harness

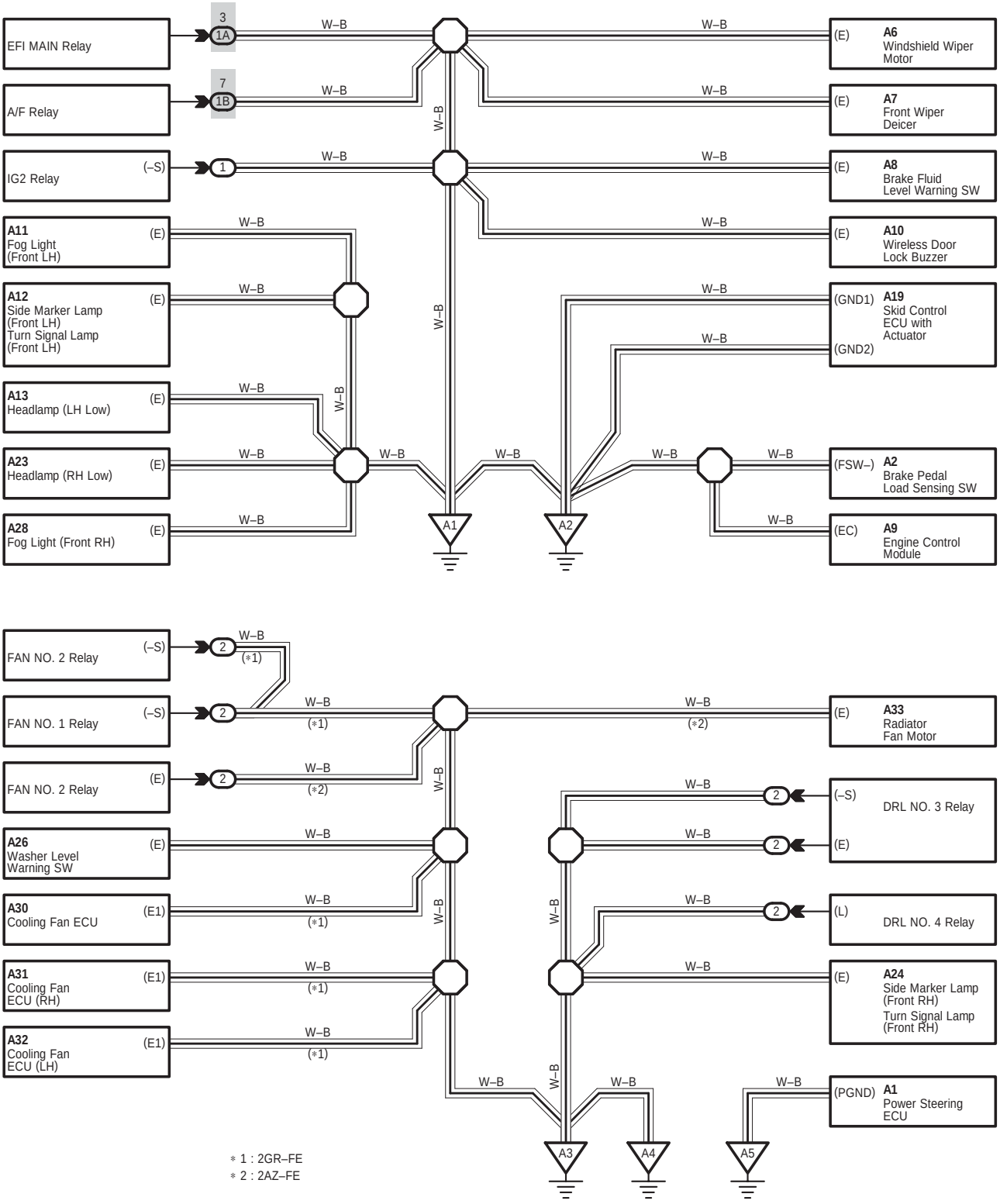
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
BA3	64 (2GR–FE)	

: Ground Points

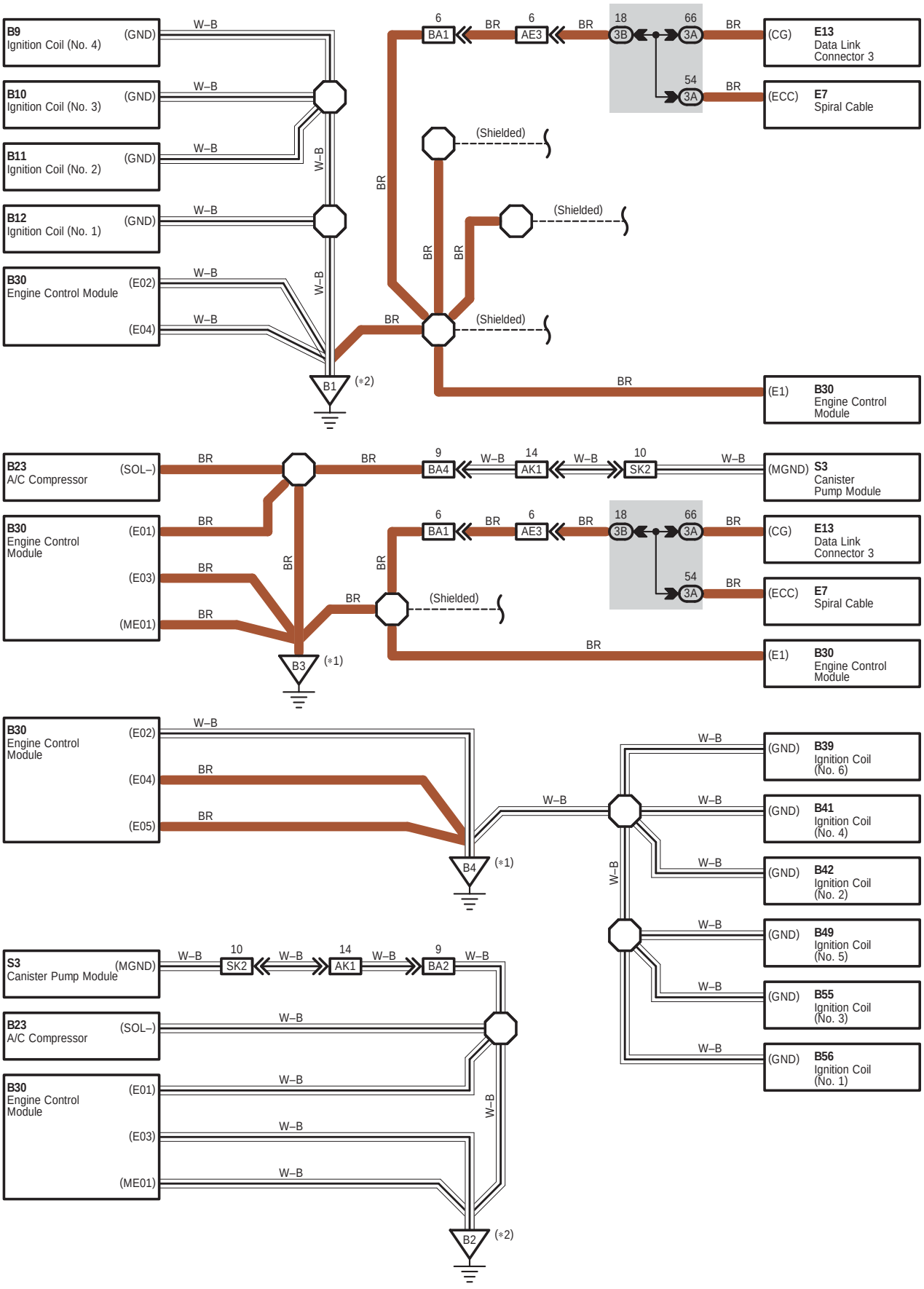
Code	See Page	Ground Points Location
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
B3	64 (2GR–FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel

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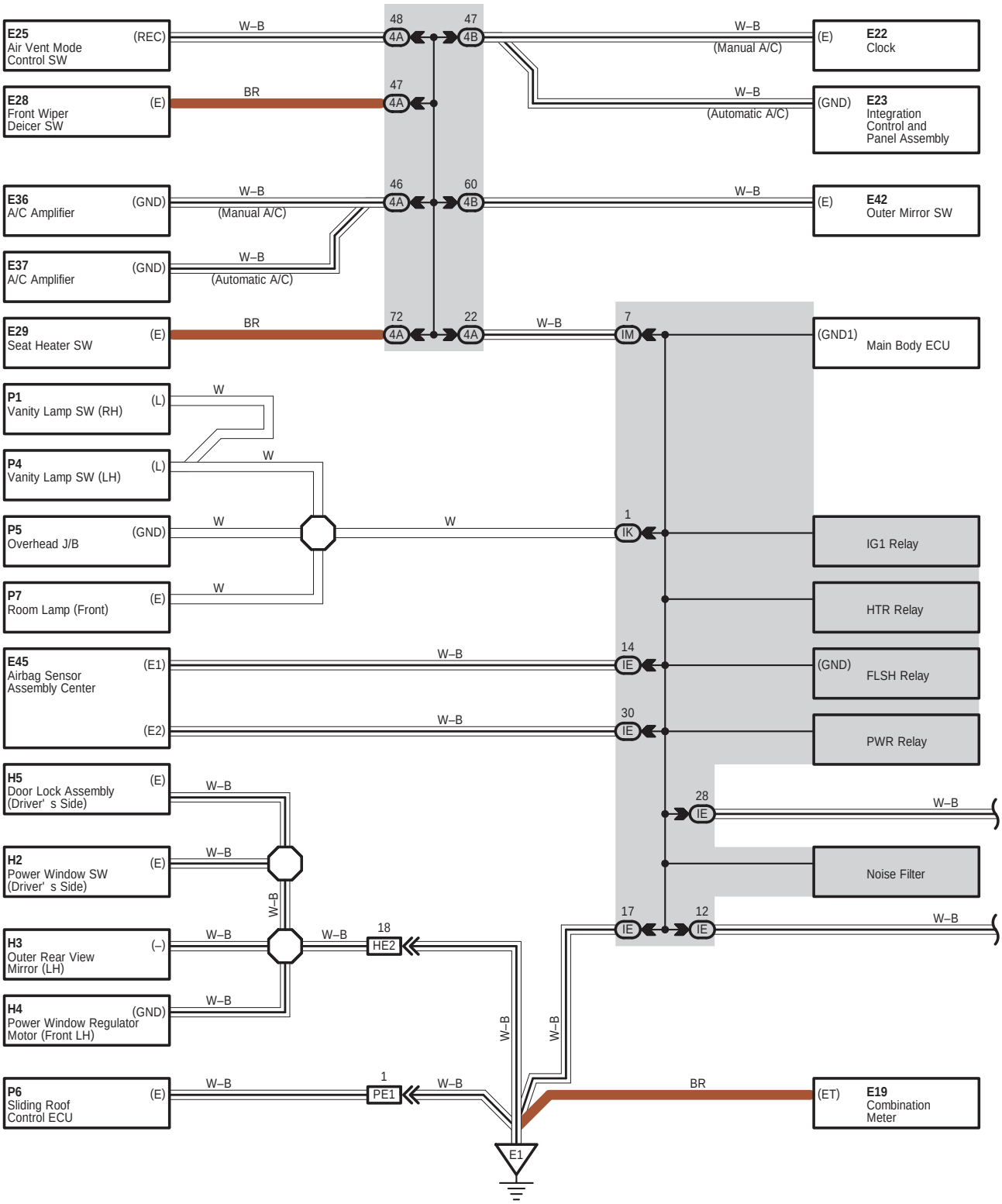
I GROUND POINT



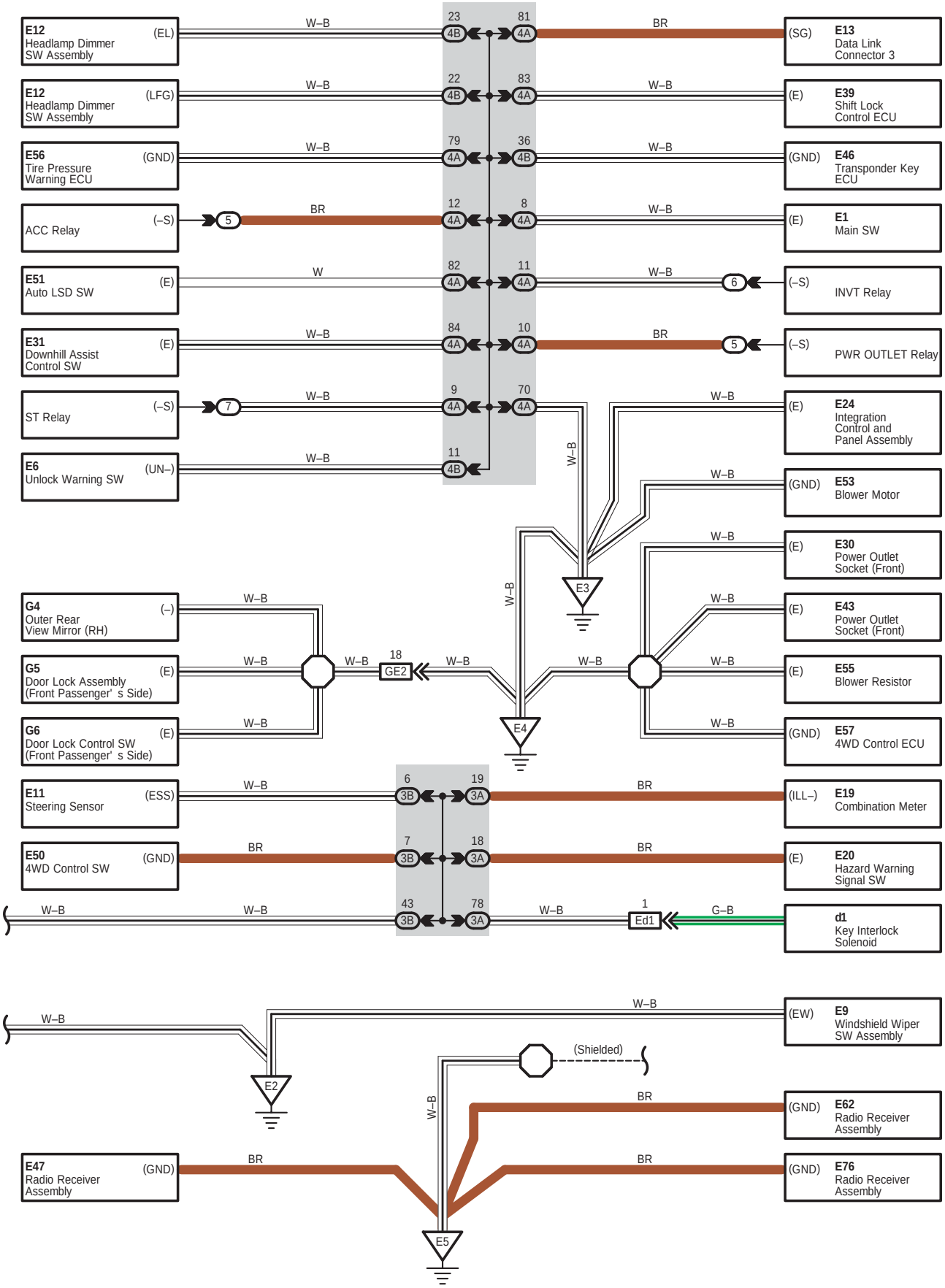
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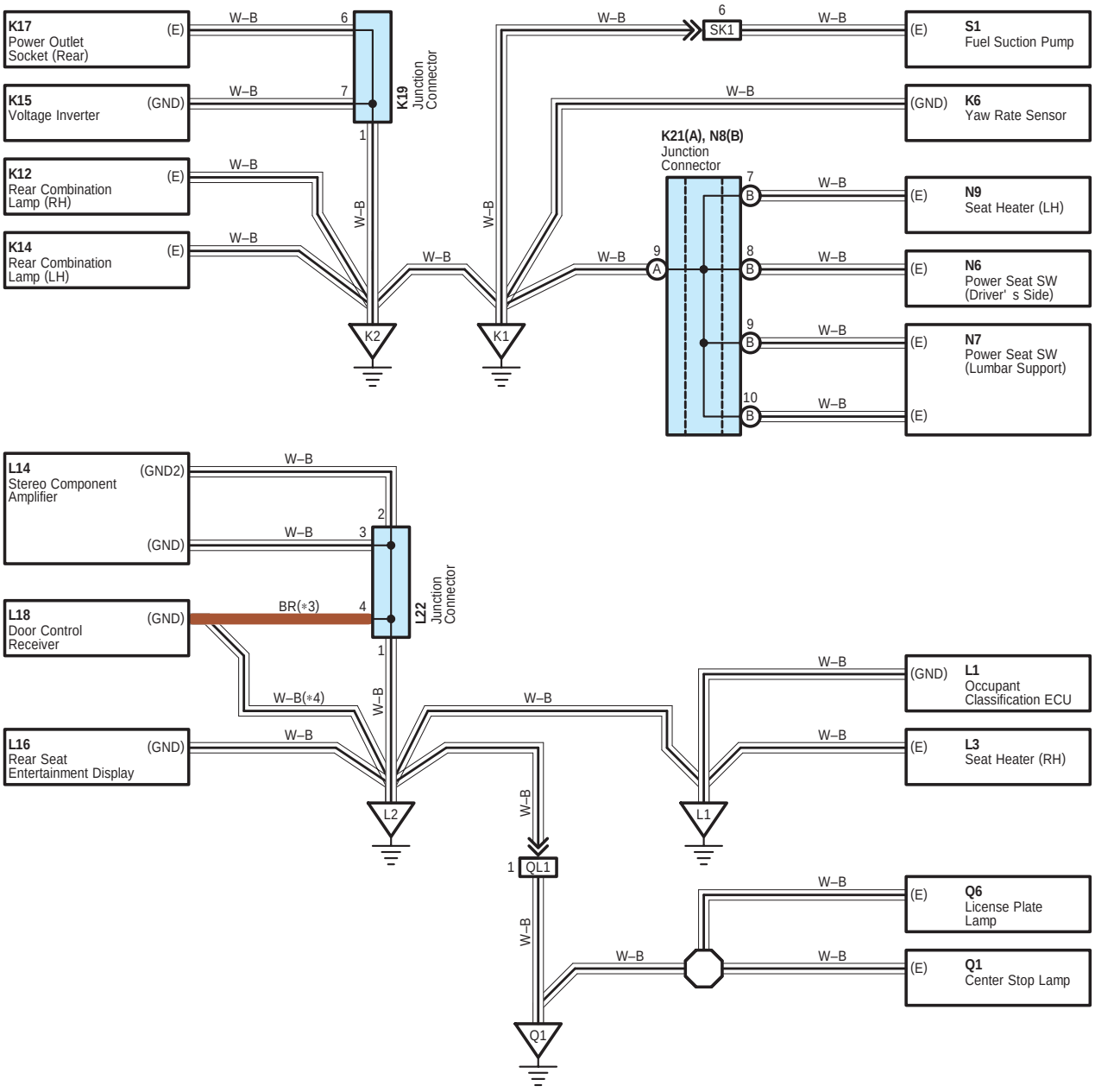


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I GROUND POINT



* 3 : Audio System (JBL)
* 4 : Audio System (Except JBL)

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
K19	59	L22	60		
K21 A	62	N8 B	62		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR–FE)	Engine Room R/B No.1 (Engine Compartment Left)
	23 (2AZ–FE)	
2	26 (2GR–FE)	Engine Room R/B No.2 (Engine Compartment Right)
	27 (2AZ–FE)	
5	28	R/B No.5 (Cowl Side Left)
6	28	R/B No.6 (Cowl Side Left)
7	29	R/B No.7 (Cowl Side Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B		
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)
BA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
	65 (2AZ–FE)	
BA2	65 (2AZ–FE)	
BA4	64 (2GR–FE)	
Ed1	66	Instrument Panel Wire and Solenoid Wire (Steering Column)
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)
SK1	66	Fuel Gauge Wire and Floor Wire (Under the Console Box)
SK2		

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I GROUND POINT

▽ : **Ground Points**

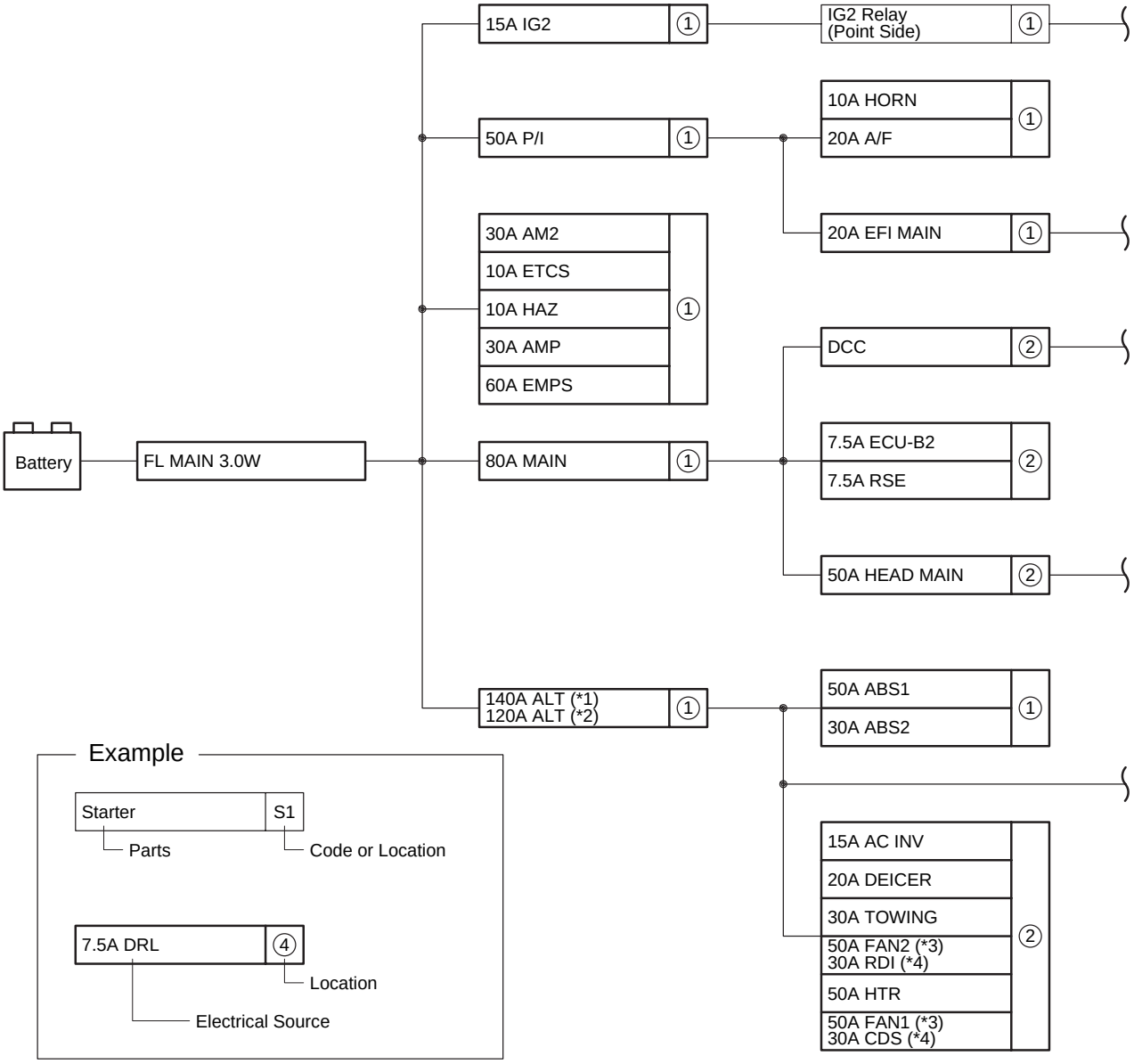
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
A3	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
A4	64 (2GR–FE)	
	65 (2AZ–FE)	
A5	66	Left Side of the Instrument Panel
B1	65 (2AZ–FE)	Left Side of the Cylinder Head
B2		
B3	64 (2GR–FE)	
B4		
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel
E5	66	Instrument Panel Reinforcement Center
K1	67	Left Center Pillar
K2	67	Left Quarter Panel
L1	67	Right Center Pillar
L2	67	Right Quarter Panel
Q1	67	Left Side of the Back Door

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J POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.



* 1:w/ Trailer Towing
* 2:w/o Trailer Towing
* 3:2GR-FE
* 4:2AZ-FE

[LOCATION]

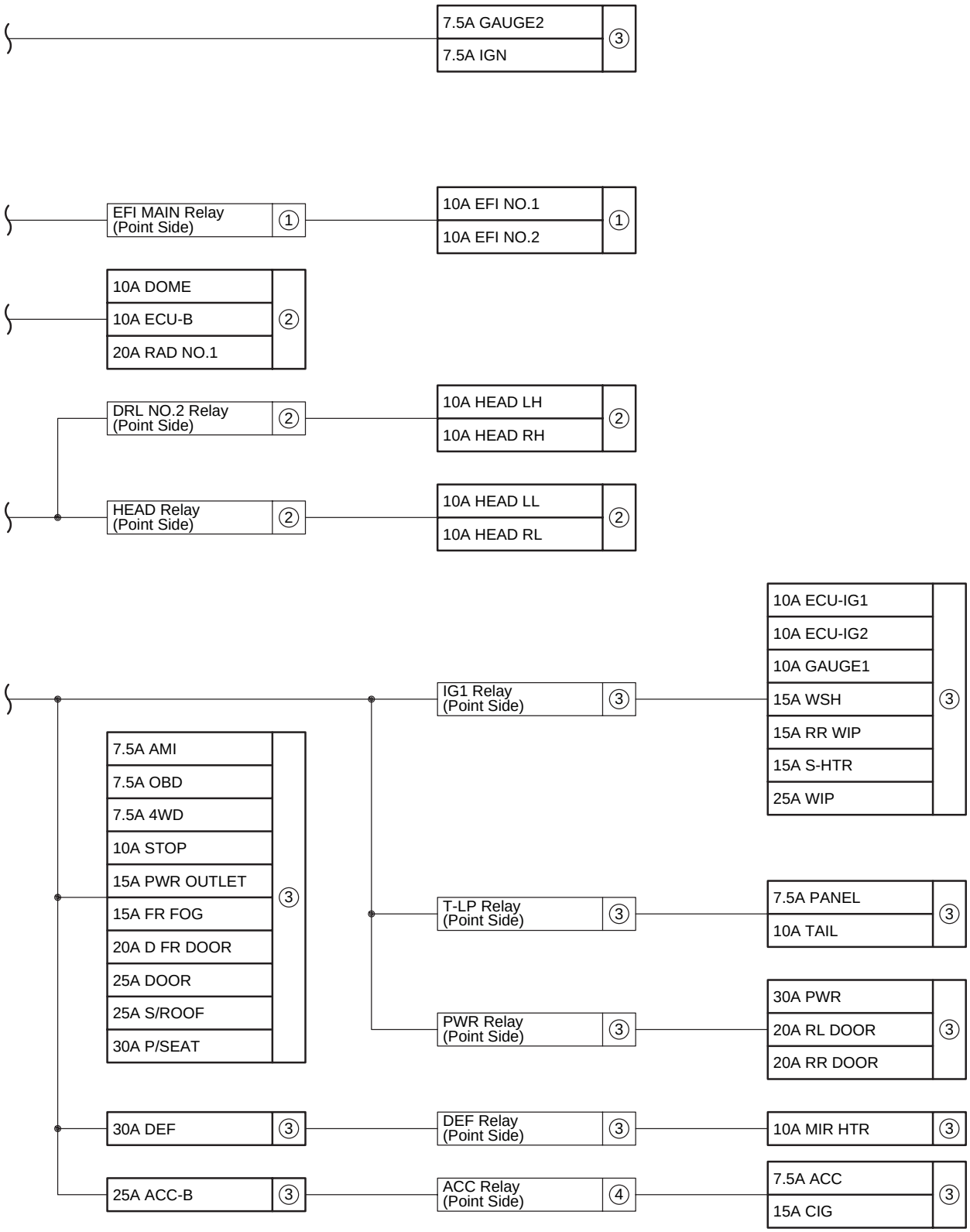
① : Engie Room R/B No.1 and Engine Room J/B No.1 (See Page 22 (*3) , 23 (*4))

② : Engie Room R/B No.2 (See Page 26 (*3) , 27 (*4))

③ : Instrument Panel J/B (See Page 30)

④ : R/B No.5 (See Page 28)

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Engine Room R/B No.1 and Engine Room J/B No.1 (See Page 22 (2GR–FE), 23 (2AZ–FE))

Fuse		System	Page
10A	EFI NO.1	Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
10A	EFI NO.2	Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
10A	ETCS	Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Engine Immobiliser System	130
10A	HAZ	Turn Signal and Hazard Warning Light	146
10A	HORN	Horn	280
15A	IG2	Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Ignition (2AZ–FE)	88
		Ignition (2GR–FE)	84
20A	A/F	Engine Control (2GR–FE)	100
20A	EFI MAIN	Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Engine Immobiliser System	130
30A	ABS2	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
30A	AMP	Audio System (JBL)	288
30A	AM2	Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Ignition (2AZ–FE)	88
		Ignition (2GR–FE)	84
		Starting	82
50A	ABS1	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
60A	EMPS	EPS	262

* These are the page numbers of the first page on which the related system is shown.

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Fuse		System	Page
120A	ALT (w/o Trailer Towing)	Charging (w/o Trailer Towing)	96
		Front Fog Light	140
		Light Auto Turn Off System	144
		Power Window	192
		Taillight and Illumination	158
140A	ALT (w/ Trailer Towing)	Charging (w/ Trailer Towing)	92
		Front Fog Light	140
		Light Auto Turn Off System	144
		Power Window	192
		Taillight and Illumination	158

Engine Room R/B No.2 (See Page 26 (2GR–FE), 27 (2AZ–FE))

Fuse		System	Page
7.5A	ECU–B2	Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Engine Immobiliser System	130
7.5A	RSE	Audio System (JBL)	288
10A	DOME	Interior Light	150
		Wireless Door Lock Control	196
10A	ECU–B	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
		Audio System (Except JBL)	296
		Audio System (JBL)	288
		Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Charging (w/ Trailer Towing)	92
		Charging (w/o Trailer Towing)	96
		Clock (w/o Automatic Air Conditioning)	282
		Combination Meter	300
		Cooling Fan (2GR–FE)	308
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Door Lock Control	204
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		EPS	262
		Front Fog Light	140
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Light Auto Turn Off System	144
		Radiator Fan and Condenser Fan (2AZ–FE)	314
		Seat Belt Warning	172

* These are the page numbers of the first page on which the related system is shown.

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J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
10A	ECU–B	SRS	267
		Taillight and Illumination	158
		Tire Pressure Warning System	274
		Wireless Door Lock Control	196
		4WD	246
10A	HEAD LH	Headlight	134
10A	HEAD LL	Headlight	134
10A	HEAD RH	Headlight	134
10A	HEAD RL	Headlight	134
15A	AC INV	Power Outlet (115V)	182
20A	DEICER	Front Window Deicer	190
20A	RAD NO.1	Audio System (Except JBL)	296
		Audio System (JBL)	288
30A	CDS (2AZ–FE)	Radiator Fan and Condenser Fan (2AZ–FE)	314
30A	RDI (2AZ–FE)	Radiator Fan and Condenser Fan (2AZ–FE)	314
30A	TOWING	Trailer Towing	164
50A	FAN1 (2GR–FE)	Cooling Fan (2GR–FE)	308
50A	FAN2 (2GR–FE)	Cooling Fan (2GR–FE)	308
50A	HEAD MAIN	Headlight	134
		Light Auto Turn Off System	144
50A	HTR	Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Manual Air Conditioning	324

Instrument Panel J/B (See page 30)

Fuse		System	Page
7.5A	ACC	Audio System (Except JBL)	296
		Audio System (JBL)	288
		Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Clock (w/o Automatic Air Conditioning)	282
		Door Lock Control	204
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Light Auto Turn Off System	144
		Power Outlet (12V)	184
		Remote Control Mirror	286
		Shift Lock	210
		Wireless Door Lock Control	196
7.5A	AM1	Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116

* These are the page numbers of the first page on which the related system is shown.

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Fuse		System	Page
7.5A	AM1	Engine Control (2GR–FE)	100
		Starting	82
7.5A	GAUGE2	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
		Audio System (Except JBL)	296
		Audio System (JBL)	288
		Charging (w/ Trailer Towing)	92
		Charging (w/o Trailer Towing)	96
		Combination Meter	300
		Cooling Fan (2GR–FE)	308
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		EPS	262
		Front Fog Light	140
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Radiator Fan and Condenser Fan (2AZ–FE)	314
		Seat Belt Warning	172
		SRS	267
		Taillight and Illumination	158
		Tire Pressure Warning System	274
		4WD	246
7.5A	IGN	Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Engine Immobiliser System	130
		Seat Belt Warning	172
		SRS	267
7.5A	OBD	Data Link Connector 3	128
7.5A	PANEL	Taillight and Illumination	158
7.5A	4WD	4WD	246
10A	ECU–IG1	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
		Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Clock (w/o Automatic Air Conditioning)	282
		Cooling Fan (2GR–FE)	308

* These are the page numbers of the first page on which the related system is shown.

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Fuse		System	Page
10A	ECU–IG1	Door Lock Control	204
		EPS	262
		Front Window Deicer	190
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Light Auto Turn Off System	144
		Manual Air Conditioning	324
		Power Outlet (115V)	182
		Radiator Fan and Condenser Fan (2AZ–FE)	314
		Shift Lock	210
		Sliding Roof	278
		Stop Light	166
		Tire Pressure Warning System	274
		Wireless Door Lock Control	196
		4WD	246
10A	ECU–IG2	Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Manual Air Conditioning	324
		Rear Window Defogger and Mirror Heater	284
		Turn Signal and Hazard Warning Light	146
10A	GAUGE1	Back–Up Light	168
		Charging (w/ Trailer Towing)	92
		Charging (w/o Trailer Towing)	96
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		4WD	246
10A	MIR HTR	Rear Window Defogger and Mirror Heater	284
10A	STOP	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Shift Lock	210
		Stop Light	166
		4WD	246
10A	TAIL	Front Fog Light	140
		Taillight and Illumination	158
15A	CIG	Power Outlet (12V)	184

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Fuse		System	Page
15A	FR FOG	Front Fog Light	140
15A	PWR OUTLET	Power Outlet (12V)	184
15A	RR WIP	Rear Wiper and Washer	188
15A	S–HTR	Seat Heater	180
15A	WSH	Front Wiper and Washer Rear Wiper and Washer	186 188
20A	D FR DOOR	Power Window	192
20A	RL DOOR	Power Window	192
20A	RR DOOR	Power Window	192
25A	DOOR	Door Lock Control Wireless Door Lock Control	204 196
25A	S/ROOF	Sliding Roof	278
25A	WIP	Engine Control (2AZ–FE) Engine Control (2GR–FE) Front Wiper and Washer	116 100 186
30A	DEF	Rear Window Defogger and Mirror Heater	284
30A	P/SEAT	Power Seat	176
30A	PWR	Power Window	192

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K CONNECTOR LIST

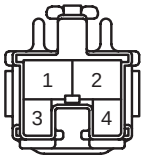
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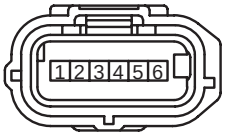
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A5



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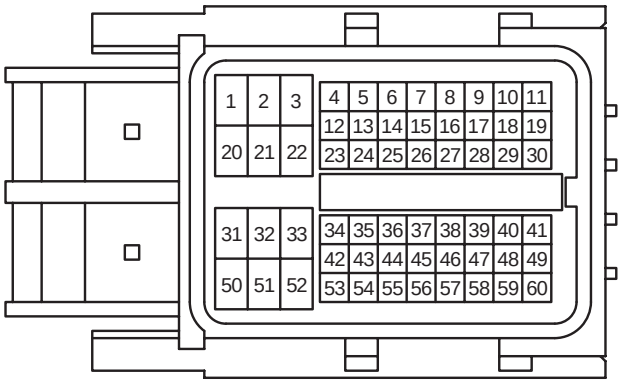
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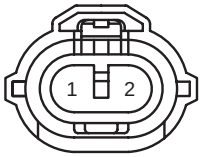
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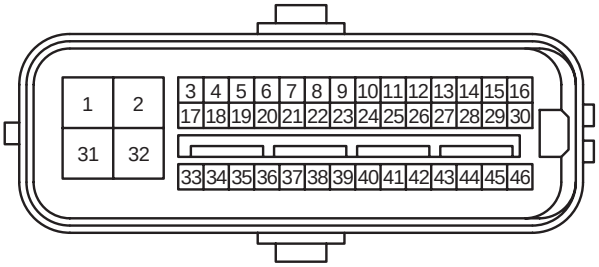
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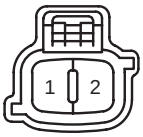


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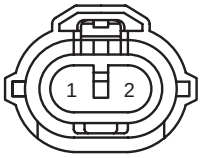
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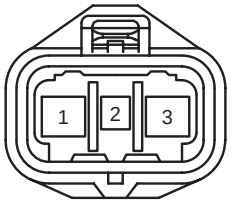
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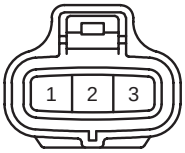
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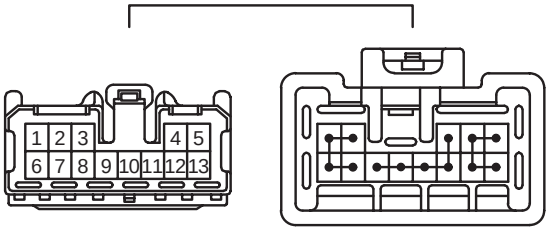
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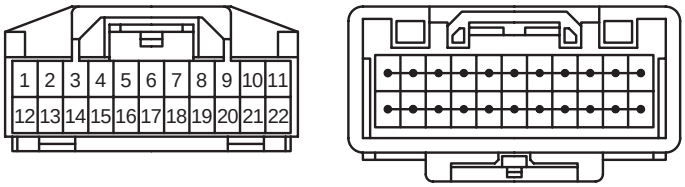
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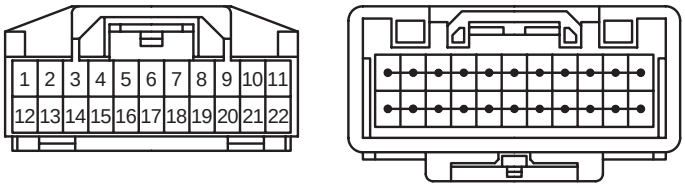
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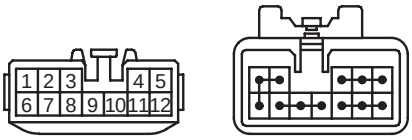
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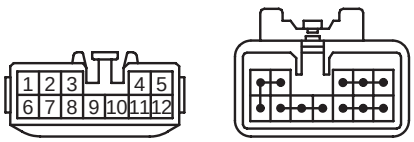
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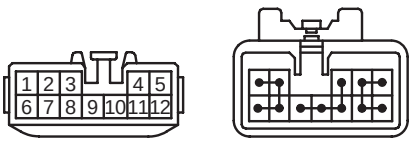
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K CONNECTOR LIST

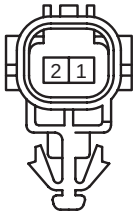
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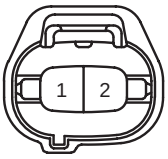
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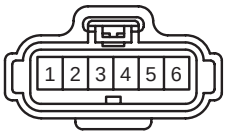
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B2
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B3
Black



B4
(2AZ–FE) Gray



B4
(2GR–FE) Black



B5
Gray



B6
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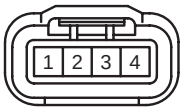
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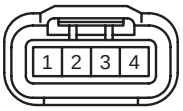
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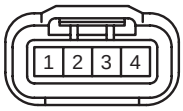
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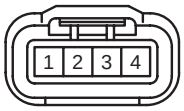
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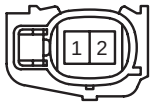
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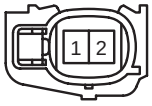
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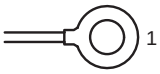
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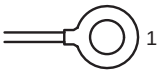
B19
Dark Gray



B20
(2AZ–FE)



B20
(2GR–FE)



B21
Black



B22
Gray



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B23
Black



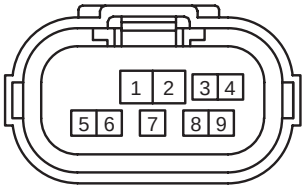
B24
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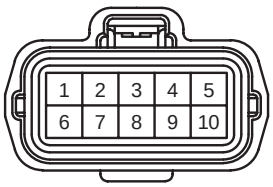
B25
Black



B26
Gray



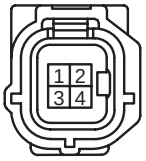
B27
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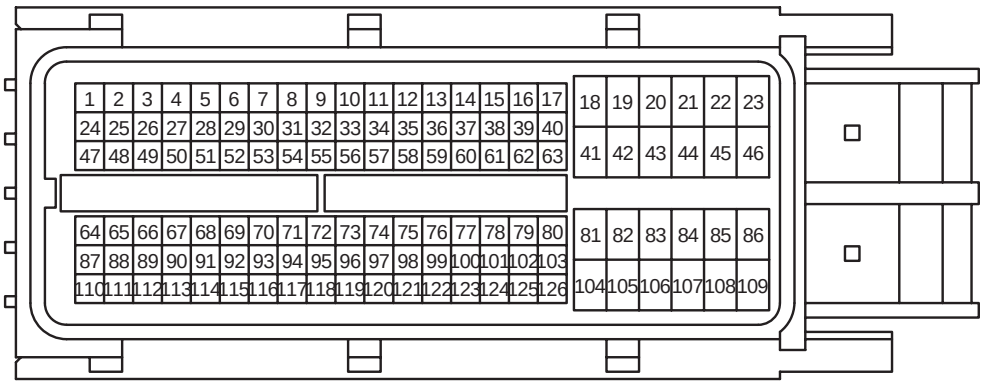
B28
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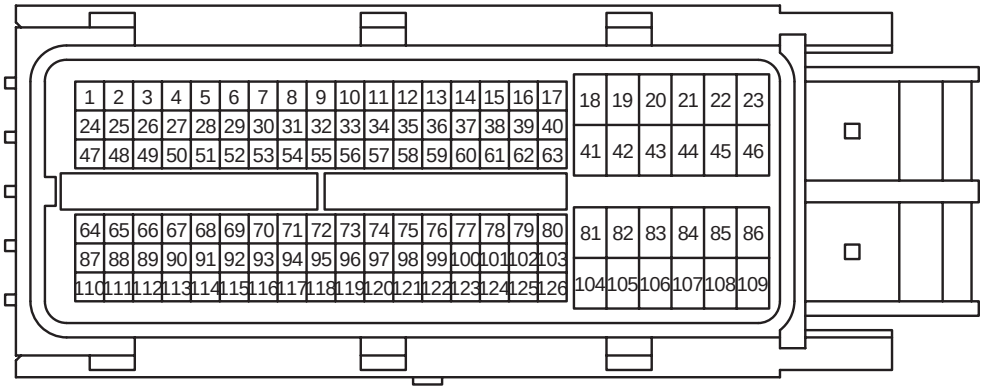
B29
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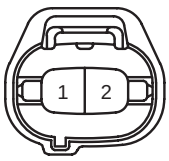
B30
(2AZ–FE) Black



B30
(2GR–FE) Black



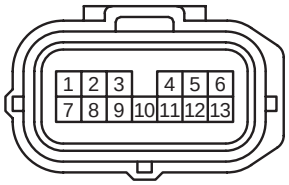
B31
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K CONNECTOR LIST

B32
Gray



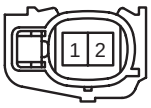
B33
Dark Gray



B34
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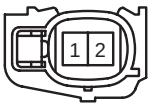
B35
Gray



B36
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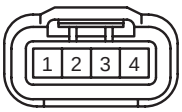
B37
Gray



B38
Gray



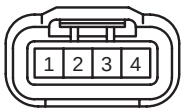
B39
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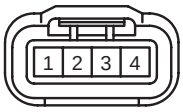
B40
Black



B41
Brown



B42
Black



B43
Black



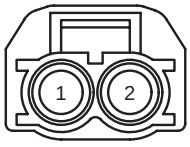
B44
Black



B45
Black



B46
Black



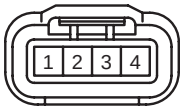
B47
Gray



B48
Dark Gray



B49
Black



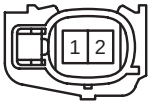
B50
Gray



B51
Gray



B52
Black



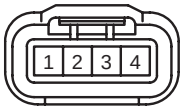
B53
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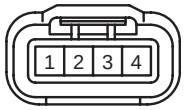
B54
Black



B55
Brown



B56
Black



B57
Black



B58
Gray



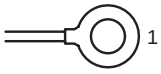
B59
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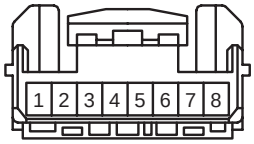
B60
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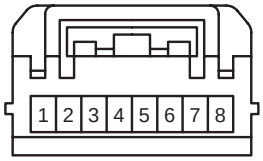
C1



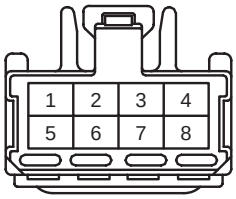
E1
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E2



E3

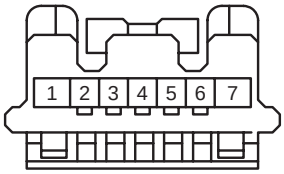


E4
Gray



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E5
Black



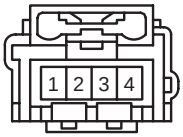
E6



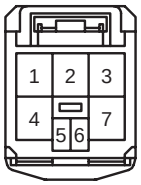
E7
Black



E8
Yellow



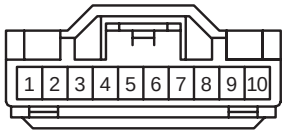
E9



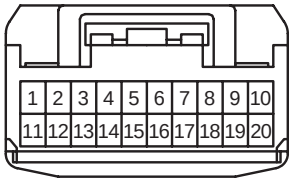
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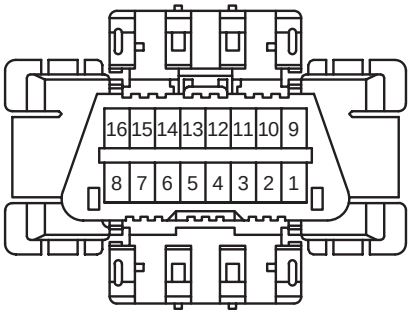
E11
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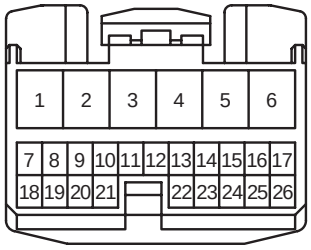
E12



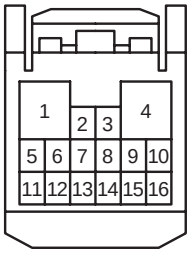
E13



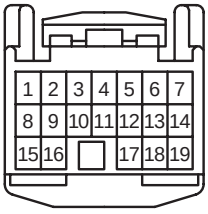
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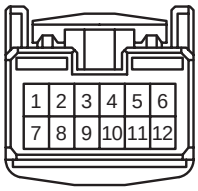
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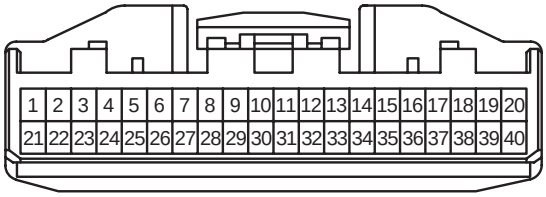
E17



E18



E19



E20
Gray



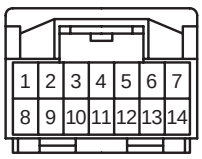
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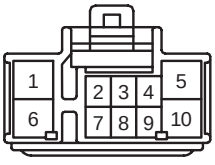
E22



E23

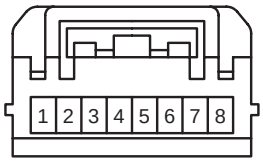


E24
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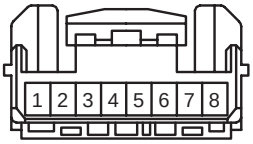


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E25
Gray



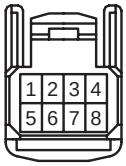
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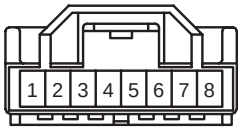
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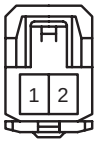
E28



E29
Black



E30



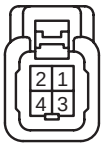
E31
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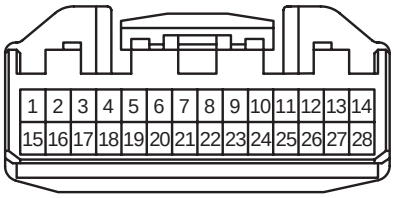
E33



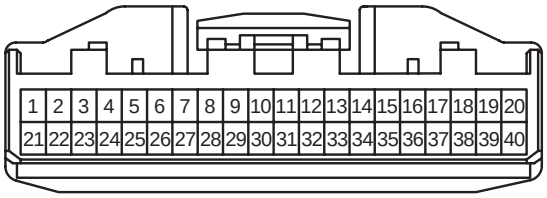
E35
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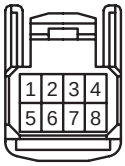
E36



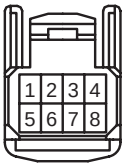
E37



E39



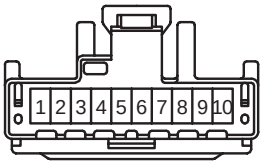
E40



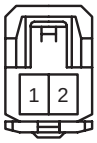
E41
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E42



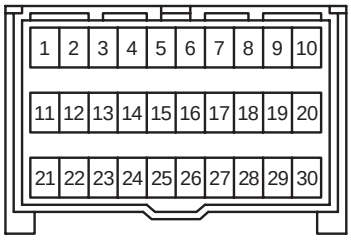
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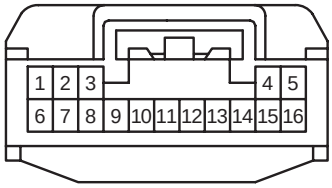
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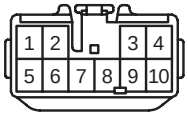
E45
Yellow



E46



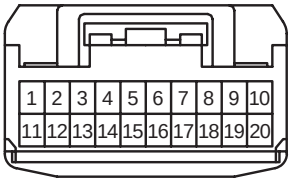
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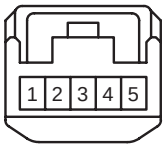
E48



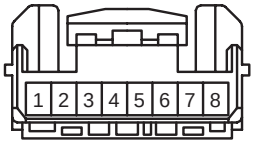
E49



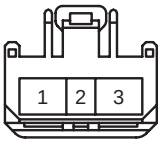
E50
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E51
Black



E53
Black



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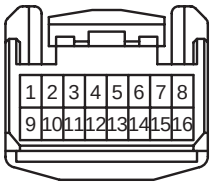
E54
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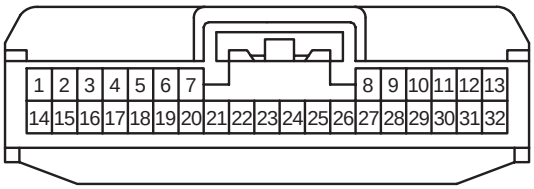
E55
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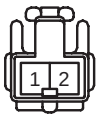
E56



E57



E58



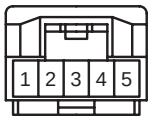
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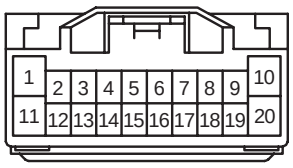
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E61
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E62



E64



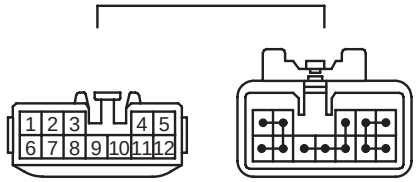
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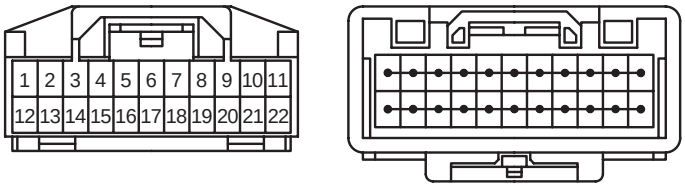
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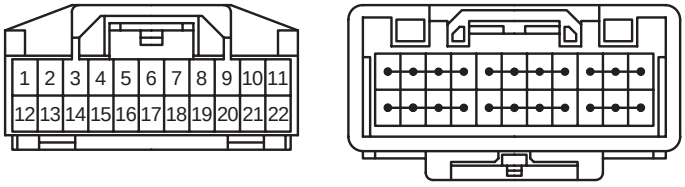
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E68
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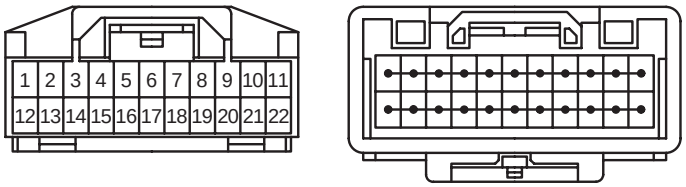
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K CONNECTOR LIST

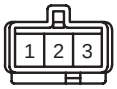
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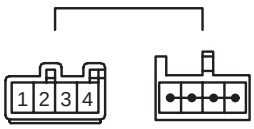
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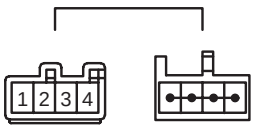
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E73
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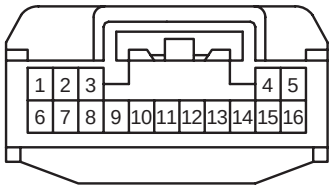
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E75
Black



E76



F1
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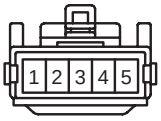
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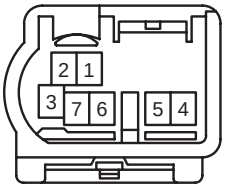
G2
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G3
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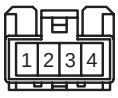
G4



G5



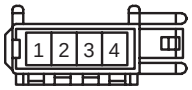
G6



G7



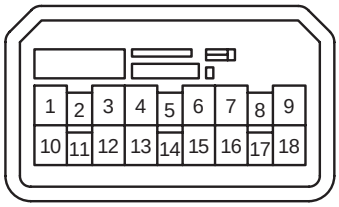
G8



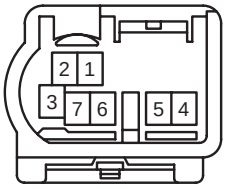
H1



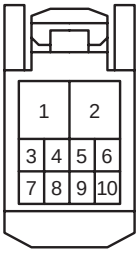
H2



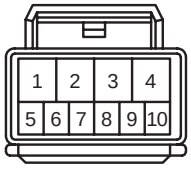
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H4



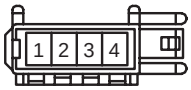
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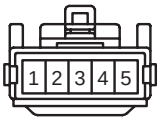
H6



H7



I1



I2

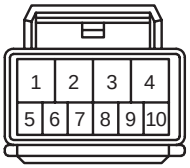


I3
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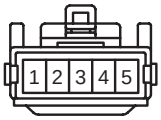


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I4



J1



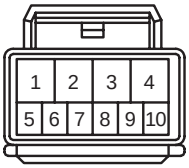
J2



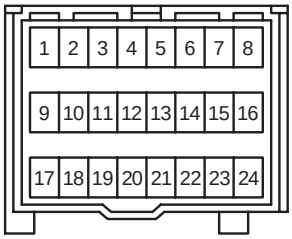
J3
Black



J4



K1
Yellow



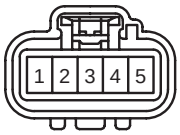
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K4



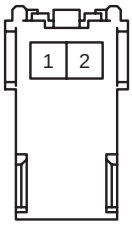
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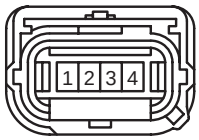
K7



K8
Yellow



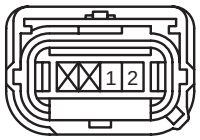
K9
Yellow



K10



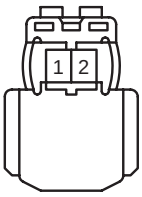
K11
Yellow



K12
Gray



K13
Black



K14
Gray



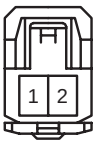
K15



K16
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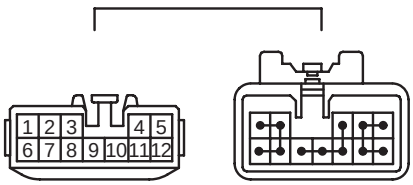
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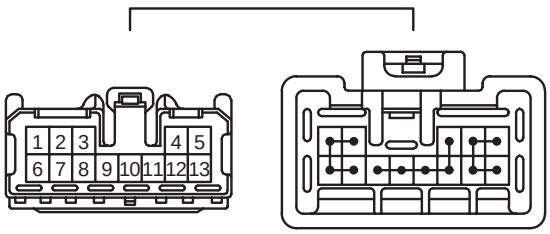
K18



K19
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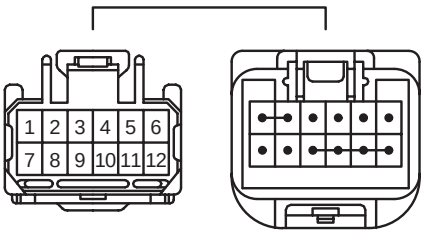
K20



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K CONNECTOR LIST

K21



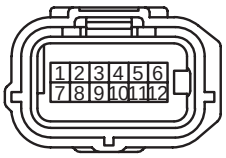
K22



K23



L1
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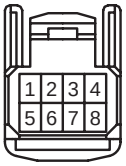
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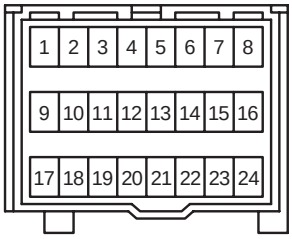
L3



L5



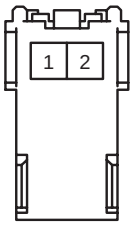
L7
Yellow



L8



L9
Yellow



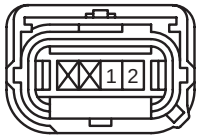
L10
Yellow



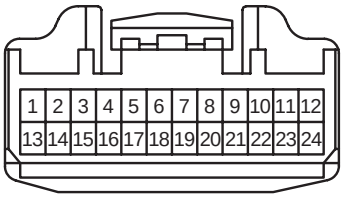
L11



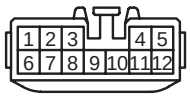
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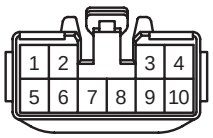
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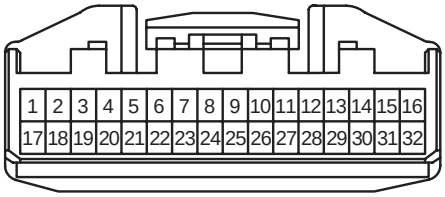
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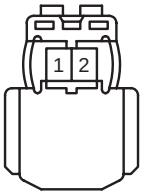
L15



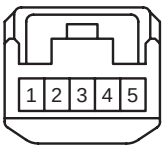
L16



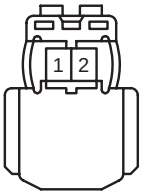
L17
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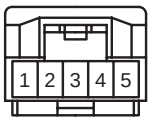
L18



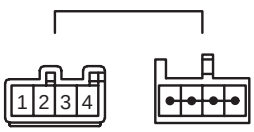
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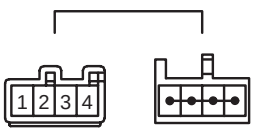
L20



L21
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L22
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N1
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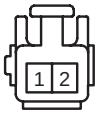


N2
Black



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N3
Black



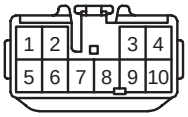
N4
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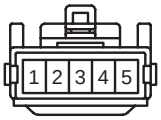
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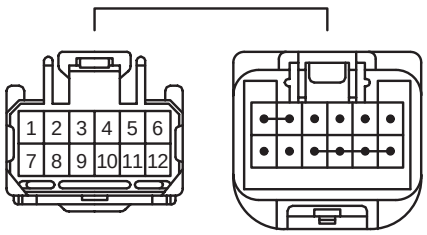
N6
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N7



N8
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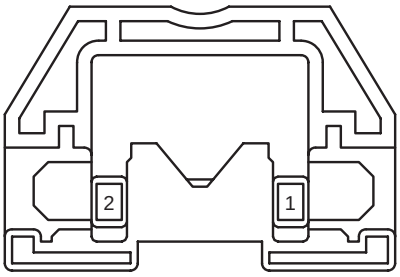
N9



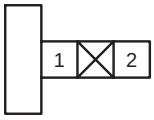
O1
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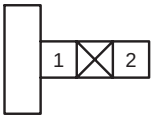
P1



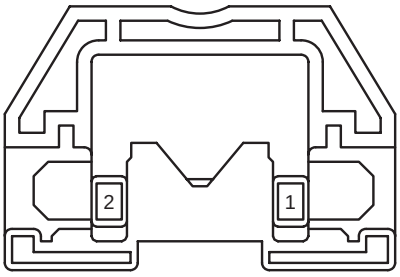
P2
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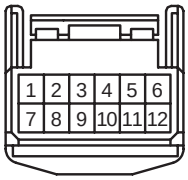
P3
Gray



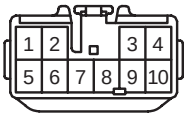
P4



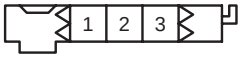
P5
Black



P6



P7
Gray



Q1



Q2



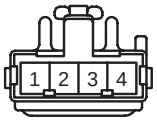
Q3



Q4
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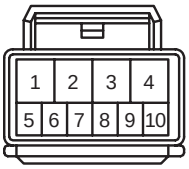
Q5



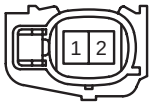
Q6
Gray



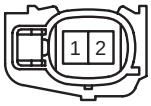
Q7



R1
Gray



R2
Black



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K CONNECTOR LIST

S1



S2



S3
Black



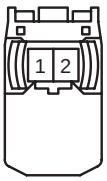
V1
Black



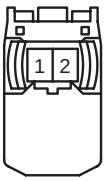
W1
Black



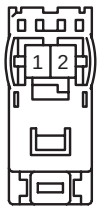
X1



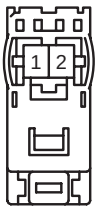
Y1



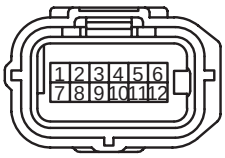
Z1
Orange



Z2
Black



a1
Gray



a2
Black



a3
Black



a4
Black



a5
Black



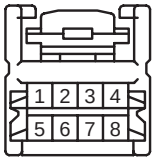
b1



b2



c1



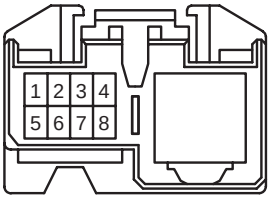
d1
Black



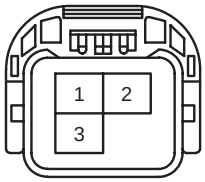
e1



e2



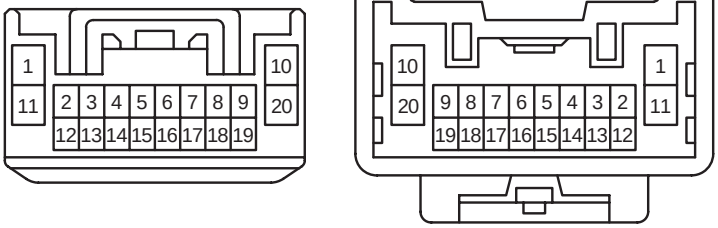
e3



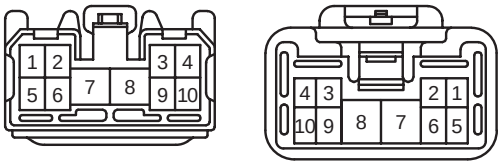
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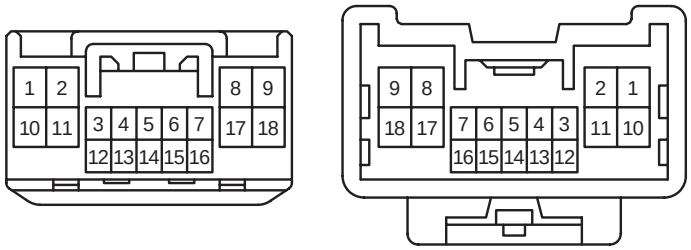
AE1



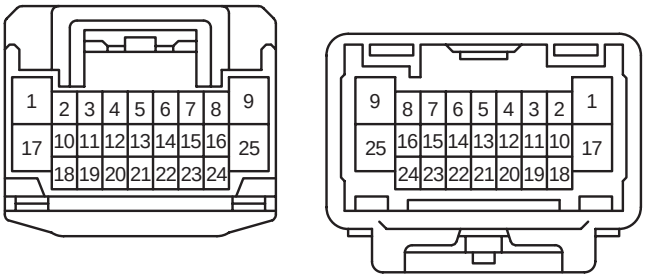
AE2



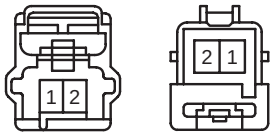
AE3 Black



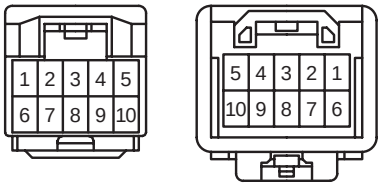
AE4 Gray



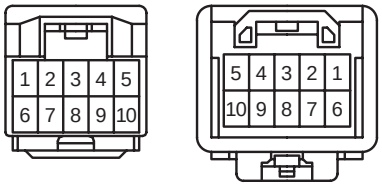
AE5 Yellow



AE6

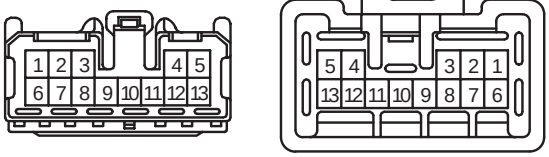


AE7

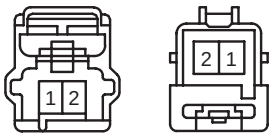


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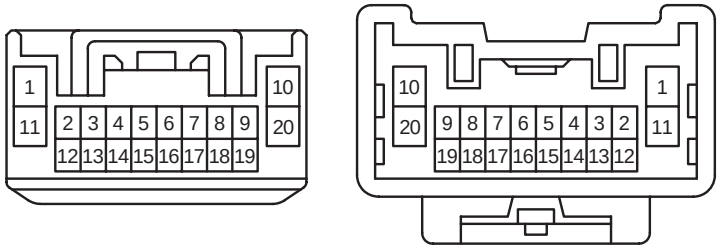
AE8



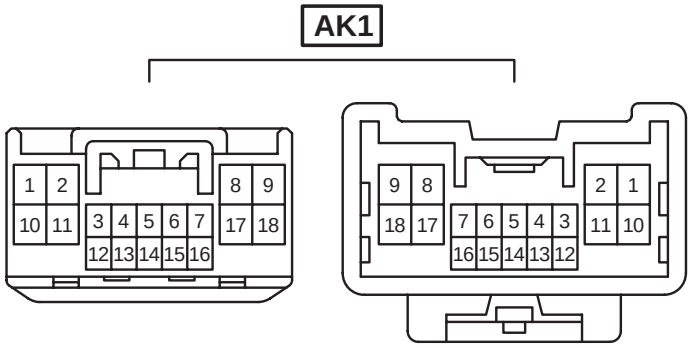
AE9 Yellow



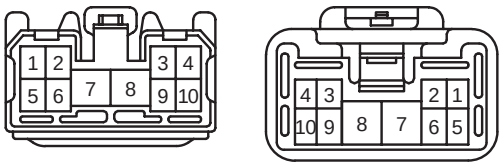
AE10



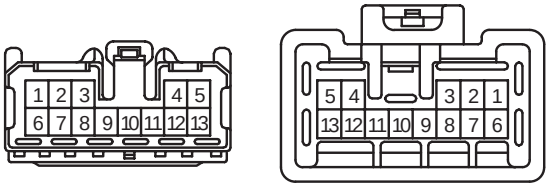
AK1



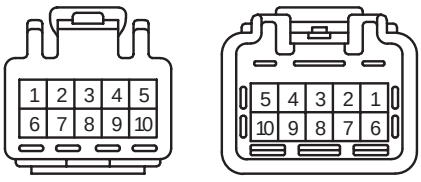
BA1



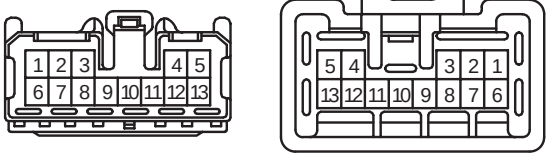
BA2 Gray



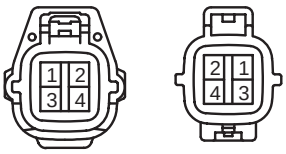
BA3



BA4 Gray

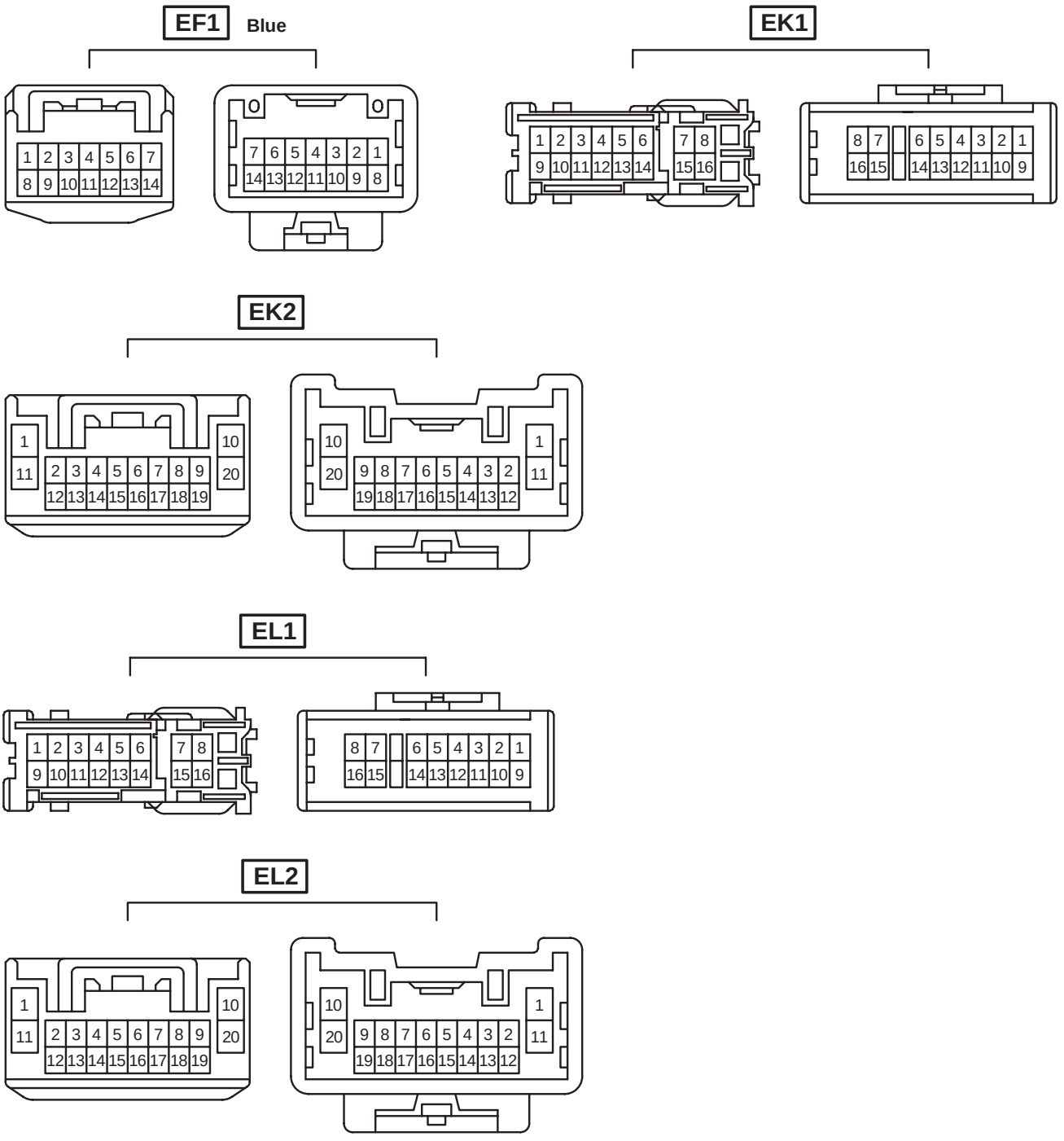


BR1 Gray

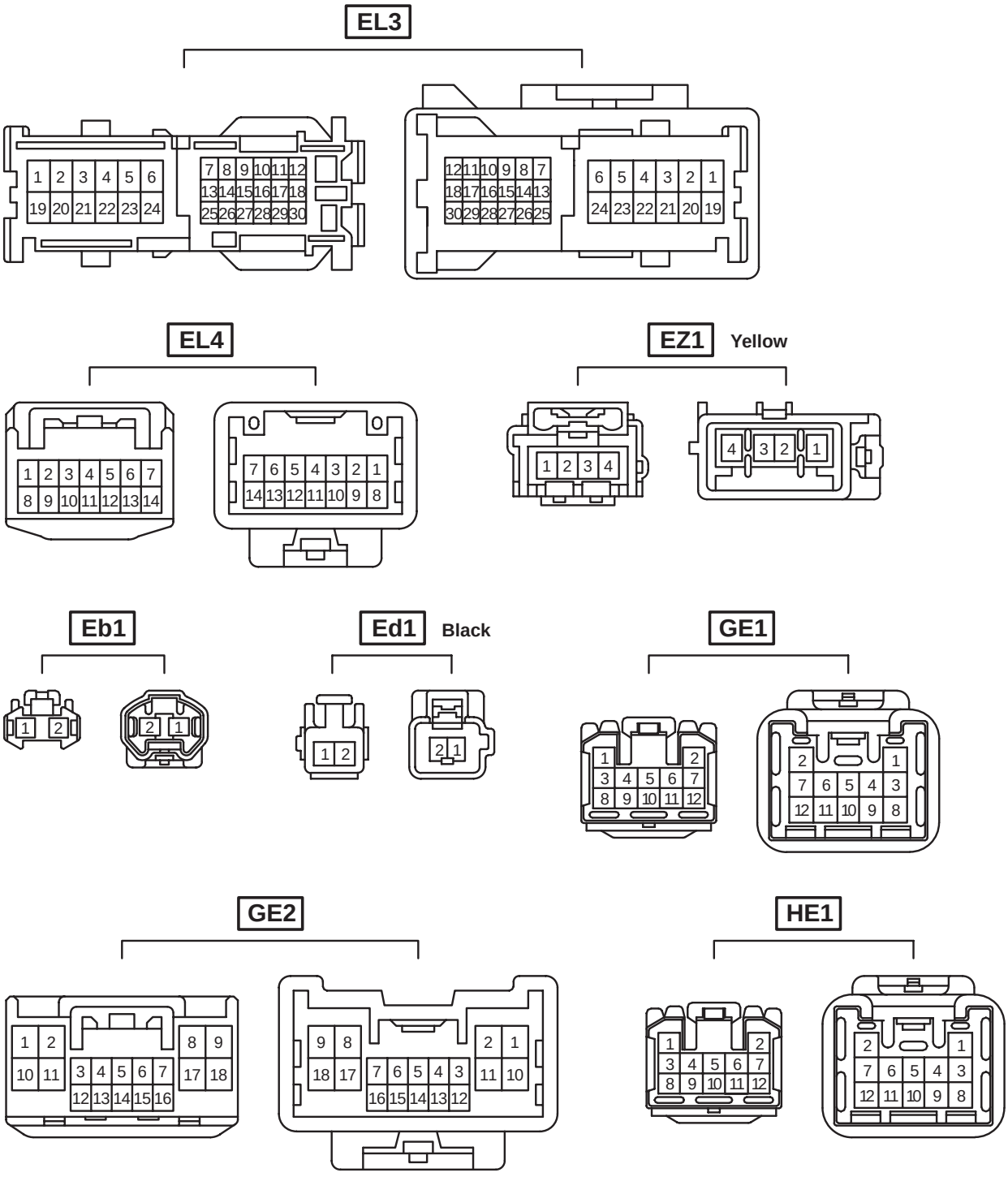


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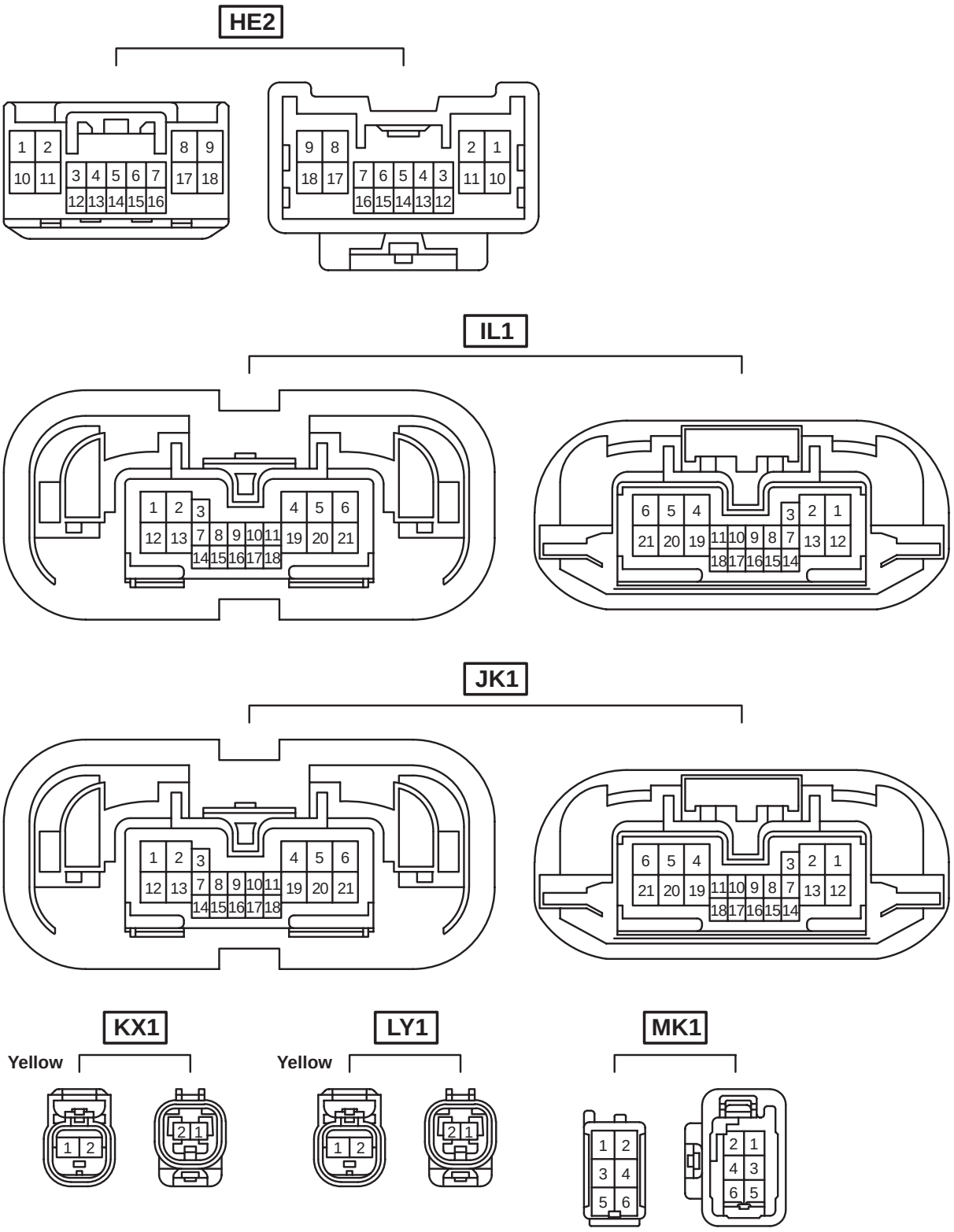
K CONNECTOR LIST



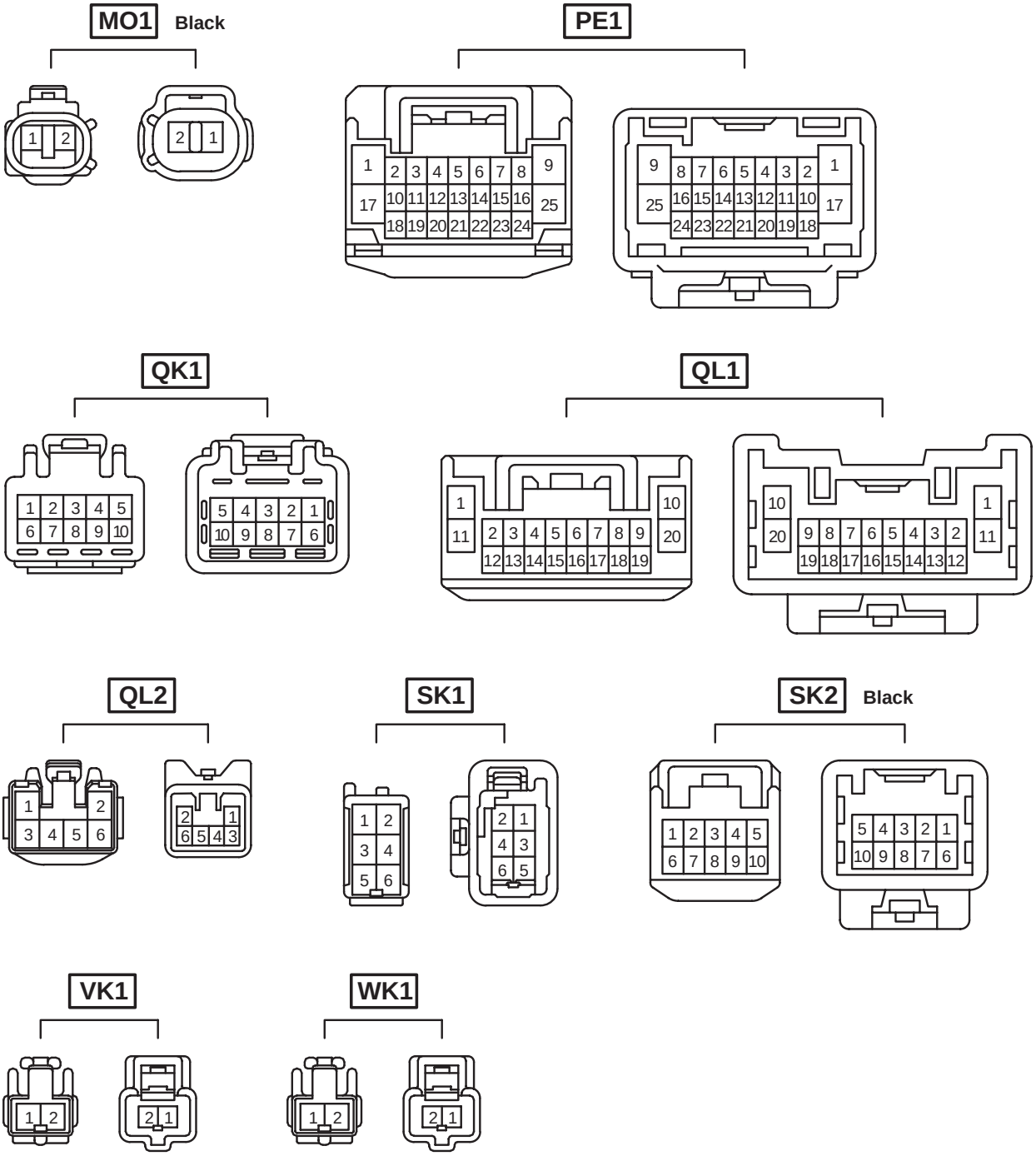
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L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A1	Power Steering ECU	90980–12653
A2	Brake Pedal Load Sensing SW	90980–10860
A3	Stop Lamp SW	90980–11118
A4	Accelerator Position Sensor	90980–12303
A5	Trailer Socket	90980–10871
A6	Windshield Wiper Motor	90980–11599
A7	Front Wiper Deicer	90980–11132
A8	Brake Fluid Level Warning SW	90980–11207
A9	Engine Control Module	90980–12461
A10	Wireless Door Lock Buzzer	90980–11142
A11	Fog Light (Front LH)	82824–60460
A12	Side Marker Lamp (Front LH)	90980–10942
	Turn Signal Lamp (Front LH)	
A13	Headlamp (LH Low)	90980–11096
A14	Headlamp (LH High)	90980–11095
A15	Airbag Sensor (Front LH)	90980–12490
A16	Horn (Low)	90980–10619
A17	Ambient Temp. Sensor	90980–11070
A18	Horn (High)	90980–10619
A19	Skid Control ECU with Actuator	90980–12297
A20	Fuel Pump Resistor	90980–11003
A21	A/C Pressure Sensor	90980–10845
A22	Headlamp (RH High)	90980–11095
A23	Headlamp (RH Low)	90980–11096
A24	Side Marker Lamp (Front RH)	90980–10942
	Turn Signal Lamp (Front RH)	
A25	Rear Washer Motor	90980–11051
A26	Washer Level Warning SW	90980–11068
A27	Front Washer Motor	90980–11019
A28	Fog Light (Front RH)	82824–60460
A29	Airbag Sensor (Front RH)	90980–12490
A30	Cooling Fan ECU	90980–12058
A31	Cooling Fan ECU (RH)	90980–10841
A32	Cooling Fan ECU (LH)	
A33	Radiator Fan Motor	90980–10928
A34	A/C Condenser Fan Motor	
A35	Junction Connector	90980–11542
A36	Junction Connector	90980–11915
A37	Junction Connector	
A38	Junction Connector	90980–10803
A39	Junction Connector	
A40	Junction Connector	
A41	Speed Sensor (Front LH)	90980–12627
A42	Speed Sensor (Front RH)	
B1	Mass Air Flow Meter	90980–12292
B2	VSV (Purge)	90980–11156

Code	Part Name	Part Number
B3	Throttle Body Assembly	90980–11858
B4	Engine Coolant Temp. Sensor	90980–10735
B5	Engine Oil Pressure SW	90980–11363
B6	Camshaft Position Sensor	90980–10947
B7	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
B8	Noise Filter (Ignition)	90980–10843
B9	Ignition Coil (No.4)	90980–11885
B10	Ignition Coil (No.3)	
B11	Ignition Coil (No.2)	
B12	Ignition Coil (No.1)	
B13	Fuel Injector (No.4)	90980–11875
B14	Fuel Injector (No.3)	
B15	Fuel Injector (No.2)	
B16	Fuel Injector (No.1)	
B17	Camshaft Timing Oil Control Valve	90980–11162
B18	Knock Control Sensor (Bank 1)	90980–11875
B19	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980–11028
B20	Generator (2AZ–FE)	90980–09213
	Generator (2GR–FE)	90980–09983
B21	Generator	90980–11964
B22	Crankshaft Position Sensor	90980–10947
B23	A/C Compressor	90980–11156
B24	Transmission Revolution Sensor (Counter Gear)	
B25	Starter	90980–11400
B26	Park/Neutral Position SW	90980–12362
B27	Electronically Controlled Transmission Solenoid	90980–11658
B28	Transmission Revolution Sensor (Turbine)	90980–11156
B29	Battery Current Sensor	90980–12495
B30	Engine Control Module (2AZ–FE)	90980–12398
	Engine Control Module (2GR–FE)	90980–12396
B31	VSV (Air Intake Control)	90980–11156
B32	Electronically Controlled Transmission Solenoid	90980–12326
B33	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	90980–11178
B34	VSV (Purge)	90980–11156
B35	Fuel Injector (No.6)	90980–11875
B36	Fuel Injector (No.4)	
B37	Fuel Injector (No.2)	
B38	Noise Filter (Ignition LH)	90980–10843
B39	Ignition Coil (No.6)	90980–11885
B40	VVT Sensor (Bank 2 Exhaust Side)	90980–12353
B41	Ignition Coil (No.4)	90980–11885
B42	Ignition Coil (No.2)	

Note: Not all of the above part numbers of the connector are established for the supply.

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Code	Part Name	Part Number
B43	Camshaft Timing Oil Control Valve (LH Exhaust Side)	90980–11162
B44	Camshaft Timing Oil Control Valve (LH Intake Side)	
B45	VVT Sensor (Bank 2 Intake Side)	90980–12353
B46	Crankshaft Position Sensor	90980–12611
B47	A/C Compressor	90980–11016
B48	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
B49	Ignition Coil (No.5)	90980–11885
B50	Noise Filter (Ignition RH)	90980–10843
B51	Fuel Injector (No.5)	90980–11875
B52	Fuel Injector (No.3)	
B53	Fuel Injector (No.1)	
B54	VVT Sensor (Bank 1 Exhaust Side)	90980–12353
B55	Ignition Coil (No.3)	90980–11885
B56	Ignition Coil (No.1)	
B57	Camshaft Timing Oil Control Valve (RH Exhaust Side)	90980–11162
B58	VSV (ACIS)	
B59	VVT Sensor (Bank 1 Intake Side)	90980–12353
B60	Camshaft Timing Oil Control Valve (RH Intake Side)	90980–11162
C1	Starter	90980–09506
E1	Main SW	90980–12558
E2	Light Control Rheostat	90980–12550
E3	Ignition SW	90980–11615
E4	Ignition Key Cylinder Lamp	90980–11148
E5	Transponder Key Amplifier	90980–12092
E6	Unlock Warning SW	90980–12063
E7	Spiral Cable	90980–12552
E8	Airbag Squib (Steering Wheel Pad)	90980–12160
E9	Windshield Wiper SW Assembly	90980–12358
E10	Windshield Wiper SW Assembly	90980–12359
E11	Steering Sensor	90980–12162
E12	Headlamp Dimmer SW Assembly	90980–12460
E13	Data Link Connector 3	90980–11978
E15	Main Body ECU	90980–12561
E16	Main Body ECU	90980–12329
E17	Main Body ECU	90980–12458
E18	Power Steering ECU	90980–12614
E19	Combination Meter	90980–12557
E20	Hazard Warning Signal SW	82824–21030
E21	A/C Room Temp. Sensor	90980–11918
E22	Clock	90980–11923
E23	Integration Control and Panel Assembly	90980–11911
E24	Integration Control and Panel Assembly	90980–10993
E25	Air Vent Mode Control SW	90980–12550
E26	A/C SW	90980–12558

Code	Part Name	Part Number
E27	Front Console Illumination	90980–11918
E28	Front Wiper Deicer SW	90980–12551
E29	Seat Heater SW	90980–11989
E30	Power Outlet Socket (Front)	90980–12498
E31	Downhill Assist Control SW	82824–21030
E33	A/C Thermistor	90980–11918
E35	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–10794
E36	A/C Amplifier	90980–12555
E37	A/C Amplifier	90980–12557
E39	Shift Lock Control ECU	90980–12551
E40	Transmission Control SW	
E41	Parking Brake SW	90980–10871
E42	Outer Mirror SW	90980–11657
E43	Power Outlet Socket (Front)	90980–12498
E44	Stereo Jack Adapter	82824–21030
E45	Airbag Sensor Assembly Center	90980–12391
E46	Transponder Key ECU	90980–12423
E47	Radio Receiver Assembly	90980–10997
E48	Radio Receiver Assembly	90980–10996
E49	Radio Receiver Assembly	90980–12460
E50	4WD Control SW	90980–12366
E51	Auto LSD SW	90980–12558
E53	Blower Motor	90980–11667
E54	Blower Motor	90980–11579
E55	Blower Resistor	90980–11136
E56	Tire Pressure Warning ECU	90980–12553
E57	4WD Control ECU	90980–12422
E58	Option Connector (TVIP)	90980–10860
E59	Option Connector (Bus Buffer)	90980–10908
E60	A/T Shift Lever Illumination	90980–12063
E61	Damper Servo Motor (Air Inlet)	90980–11909
E62	Radio Receiver Assembly	90980–12038
E64	Radio Receiver Assembly	90980–12552
E65	Short Connector	90980–11918
E66	Short Connector	90980–11917
E67	Junction Connector	90980–10803
E68	Junction Connector	90980–11915
E69	Junction Connector	
E70	Junction Connector	
E71	Diode (Rear Wiper)	90980–10962
E72	Diode (Inverter)	90980–11071
E73	Junction Connector	90980–11398
E74	Junction Connector	
E75	Diode (Heater)	90980–10962
E76	Radio Receiver Assembly	90980–12423
F1	A/C Solar Sensor	90980–11987

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L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
G1	Speaker (Front Door RH)	90980–10935
G2	Power Window Regulator Motor (Front RH)	90980–10797
G3	Power Window SW (Front Passenger's Side)	90980–10789
G4	Outer Rear View Mirror (RH)	90980–12059
G5	Door Lock Assembly (Front Passenger's Side)	90980–12226
G6	Door Lock Control SW (Front Passenger's Side)	90980–11950
G7	Tweeter (Front RH)	90980–10860
G8	Tweeter (Front RH)	90980–12304
H1	Speaker (Front Door LH)	90980–10935
H2	Power Window SW (Driver's Side)	90980–12122
H3	Outer Rear View Mirror (LH)	90980–12059
H4	Power Window Regulator Motor (Front LH)	90980–12328
H5	Door Lock Assembly (Driver's Side)	90980–12226
H6	Tweeter (Front LH)	90980–10860
H7	Tweeter (Front LH)	90980–12304
I1	Power Window SW (Rear RH)	90980–10789
I2	Speaker (Rear RH)	90980–10935
I3	Power Window Regulator Motor (Rear RH)	90980–10797
I4	Door Lock Assembly (Rear RH)	90980–12226
J1	Power Window SW (Rear LH)	90980–10789
J2	Speaker (Rear LH)	90980–10935
J3	Power Window Regulator Motor (Rear LH)	90980–10797
J4	Door Lock Assembly (Rear LH)	90980–12226
K1	Airbag Sensor Assembly Center	90980–12392
K3	Power Outlet Socket (115V)	90980–10601
K4	Front Seat Inner Belt (Driver's Side)	90980–10942
K6	Yaw Rate Sensor	90980–11904
K7	Door Courtesy SW (Front LH)	90980–10871
K8	Pretensioner (LH)	90980–12253
K9	Side Airbag Sensor (Front LH)	90980–12225
K10	Door Courtesy SW (Rear LH)	90980–10871
K11	Side Airbag Sensor (Rear LH)	90980–12352
K12	Rear Combination Lamp (RH)	90980–10797
K13	Curtain Shield Airbag Squib (LH)	90980–12575
K14	Rear Combination Lamp (LH)	90980–10797
K15	Voltage Inverter	90980–10799
K16	Diode (Room Lamp)	90980–10962
K17	Power Outlet Socket (Rear)	90980–12498
K18	Door Courtesy SW (Back Door)	90980–10871
K19	Junction Connector	90980–10803
K20	Junction Connector	90980–11542
K21	Junction Connector	90980–11661
K22	Speed Sensor (Rear LH)	90980–10859
K23	Speed Sensor (Rear RH)	

Code	Part Name	Part Number
L1	Occupant Classification ECU	90980–12356
L2	Front Seat Inner Belt (Front Passenger's Side)	90980–10942
L3	Seat Heater (RH)	90980–10797
L5	Video Terminal	90980–12551
L7	Airbag Sensor Assembly Center	90980–12390
L8	Door Courtesy SW (Front RH)	90980–10871
L9	Pretensioner (RH)	90980–12253
L10	Side Airbag Sensor (Front RH)	90980–12225
L11	Door Courtesy SW (Rear RH)	90980–10871
L12	Side Airbag Sensor (Rear RH)	90980–12352
L13	Stereo Component Amplifier	90980–12554
L14	Stereo Component Amplifier	90980–10803
L15	Stereo Component Amplifier	90980–10801
L16	Rear Seat Entertainment Display	90980–12556
L17	Curtain Shield Airbag Squib (RH)	90980–12575
L18	Door Control Receiver	90980–12366
L19	Curtain Shield Airbag Squib (RH)	90980–12575
L20	Tire Pressure Warning Antenna and Receiver	90980–11909
L21	Junction Connector	90980–11398
L22	Junction Connector	
N1	Power Seat Motor (Driver's Seat Slide Control)	90980–10825
N2	Power Seat Motor (Driver's Seat Lifter Control)	
N3	Power Seat Motor (Driver's Seat Front Vertical Control)	
N4	Power Seat Motor (Driver's Seat Reclining Control)	
N5	Power Seat Motor (Driver's Seat Lumbar Support Control)	
N6	Power Seat SW (Driver's Seat)	90980–10997
N7	Power Seat SW (Lumbar Support)	90980–10789
N8	Junction Connector	90980–11661
N9	Seat Heater (LH)	90980–10797
O1	4WD Linear Solenoid	90980–11156
P1	Vanity Lamp SW (RH)	90980–12322
P2	Vanity Lamp (RH)	–
P3	Vanity Lamp (LH)	
P4	Vanity Lamp SW (LH)	90980–12322
P5	Overhead J/B	90980–12559
P6	Sliding Roof Control ECU	90980–10997
P7	Room Lamp (Front)	–
Q1	Center Stop Lamp	90980–11060
Q2	Rear Window Defogger	90980–10916
Q3	Room Lamp (Rear)	90980–10860
Q4	Rear Wiper Motor	90980–11296

Note: Not all of the above part numbers of the connector are established for the supply.

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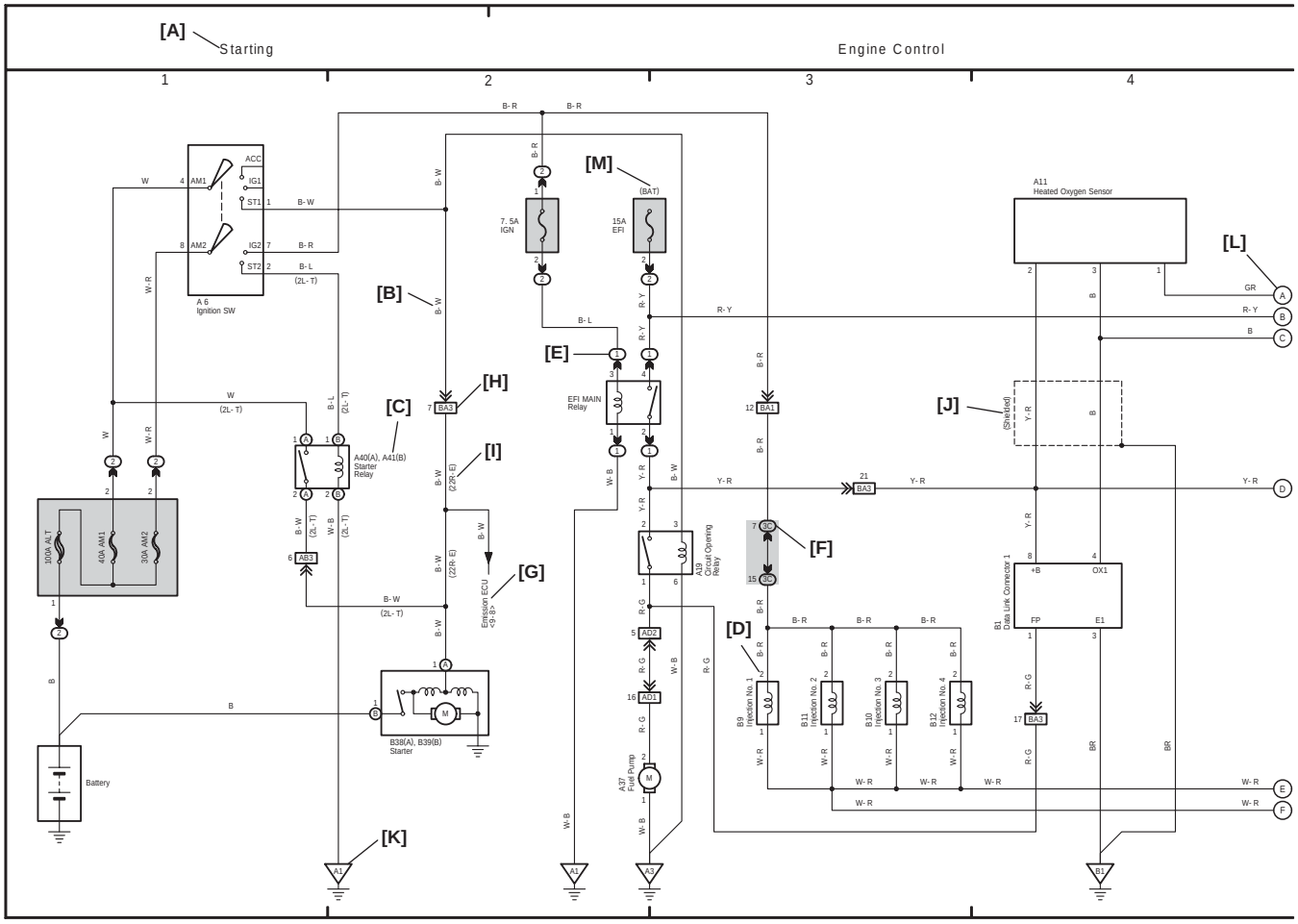
Code	Part Name	Part Number
Q5	Speaker (Woofer)	90980–11013
Q6	License Plate Lamp	90980–11003
Q7	Back Door Lock Assembly	90980–12226
R1	Knock Control Sensor (Bank 2)	90980–11875
R2	Knock Control Sensor (Bank 1)	
S1	Fuel Suction Pump	90980–11077
S2	Fuel Sender Gage	90980–11140
S3	Canister Pump Module	90980–12380
V1	Speed Sensor (Rear RH)	90980–12416
W1	Speed Sensor (Rear LH)	
X1	Side Airbag Squib (LH)	90980–12452
Y1	Side Airbag Squib (RH)	
Z1	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12224
Z2	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12219
a1	Occupant Classification ECU	90980–12357

Code	Part Name	Part Number
a2	Occupant Classification Sensor (Front LH)	90980–12353
a3	Occupant Classification Sensor (Rear LH)	
a4	Occupant Classification Sensor (Front RH)	
a5	Occupant Classification Sensor (Rear RH)	
b1	Foot Lamp (Front LH)	90980–11918
b2	Foot Lamp (Front RH)	
c1	A/C Amplifier	90980–12264
	A/C Blower Assembly	
d1	Key Interlock Solenoid	90980–12063
e1	Power Steering ECU	82824–42160
	Power Steering Torque Sensor	
e2	Power Steering ECU	82824–42170
	Rotation Angle Sensor	
e3	Power Steering ECU	82824–42240
	Power Steering Motor	

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HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



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[A] : System Title

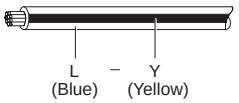
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y



[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in other from upper left to lower right / Numbered in other from upper right to lower left



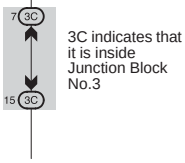
The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example: (1) Indicates Relay Block No.1

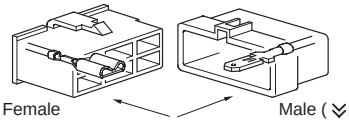
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (»). Outside numerals are pin numbers.



[I] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[J] : Indicates a shielded cable.



[K] : Indicates a ground point.

[L] : The same code occurring on the next page indicates that the wire harness is continuous.

[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

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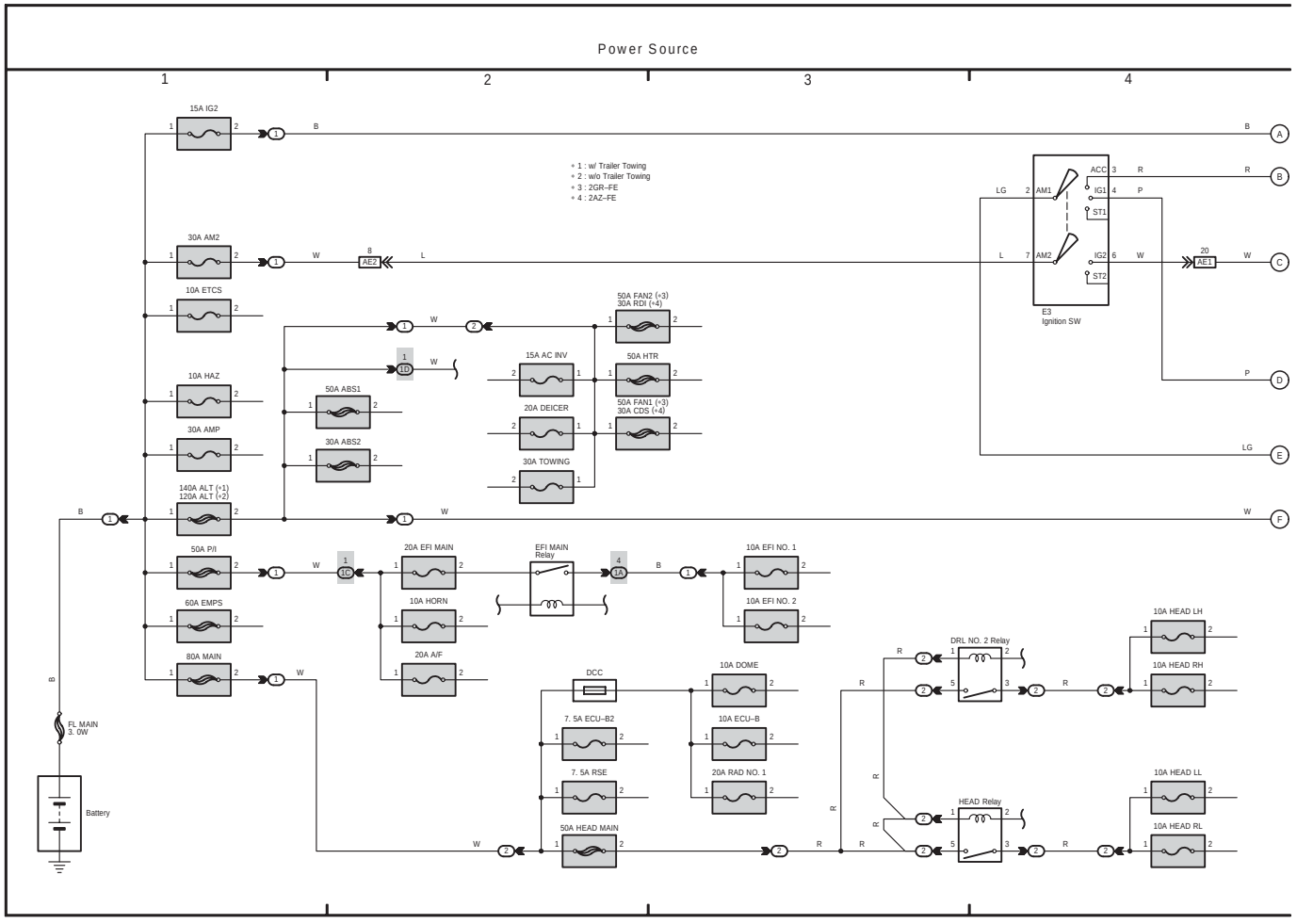
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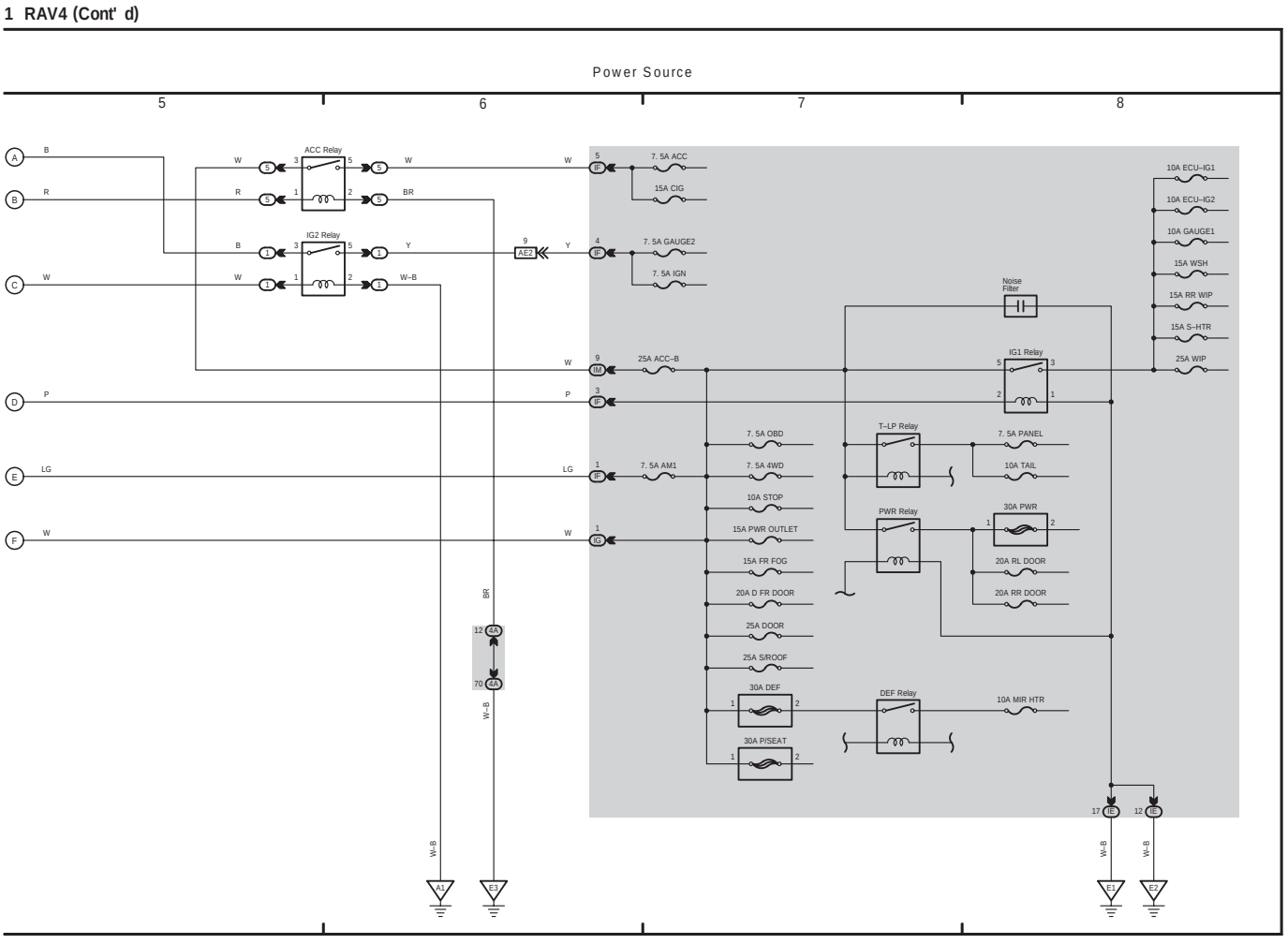
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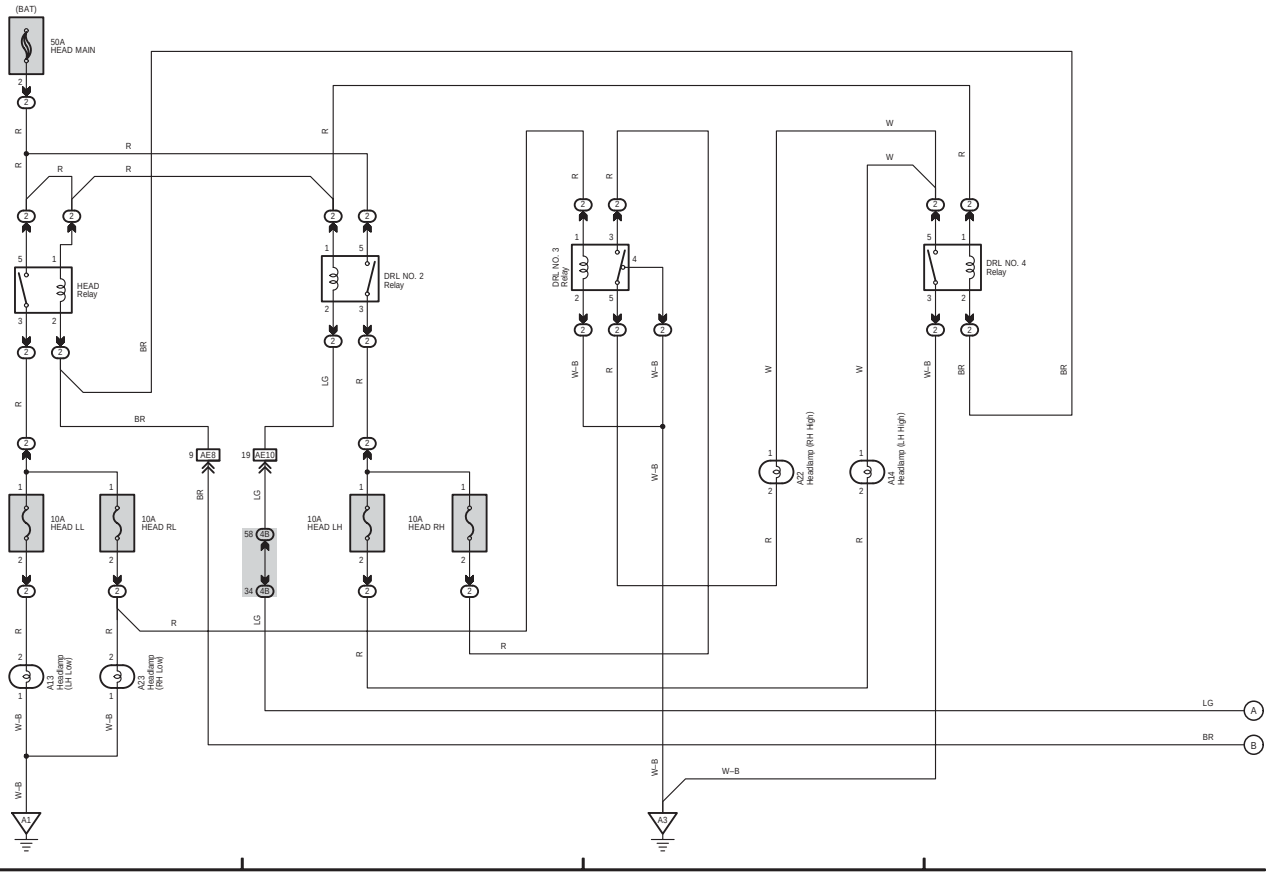


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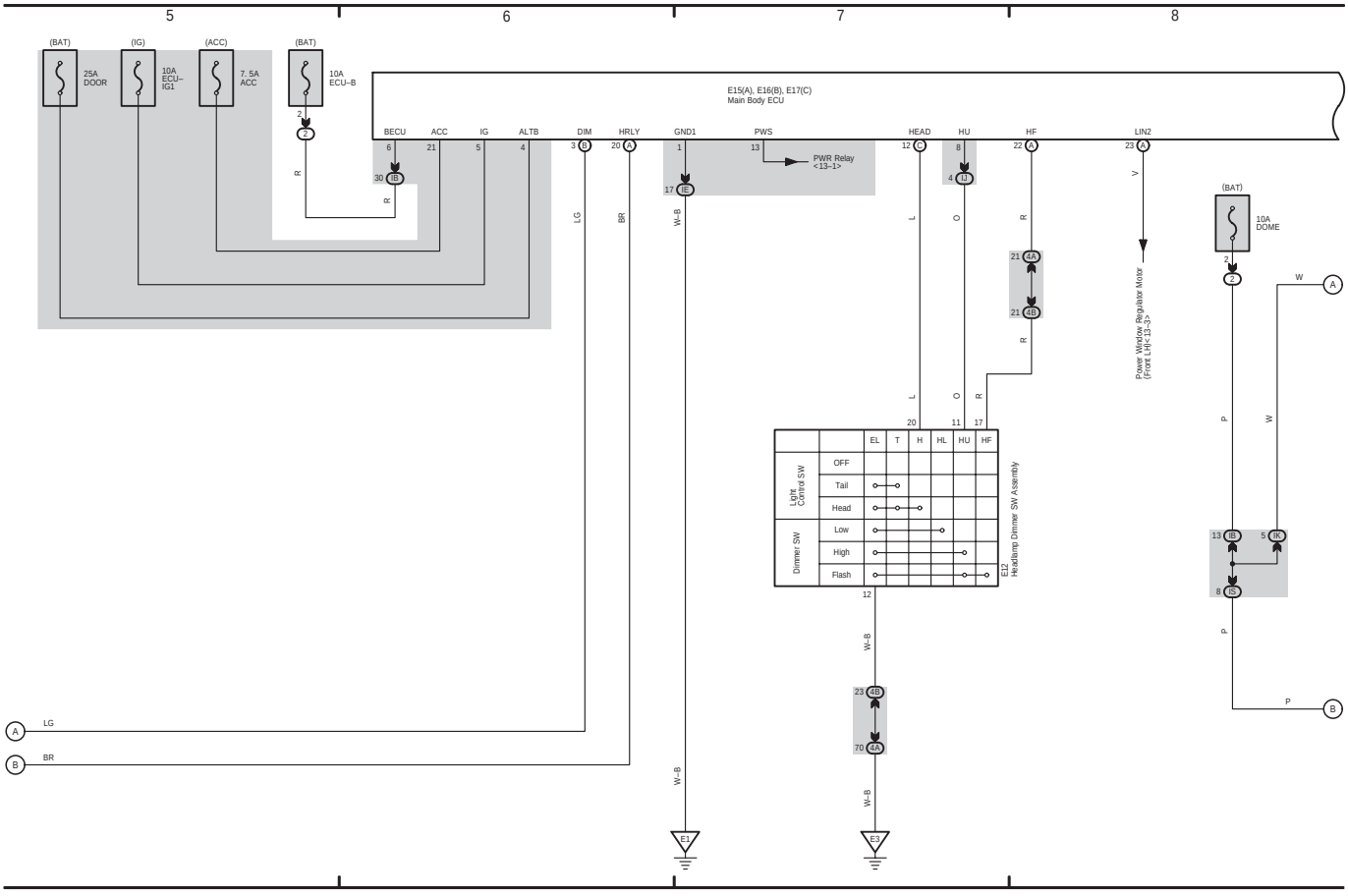
Multiplex Communication System (CAN)



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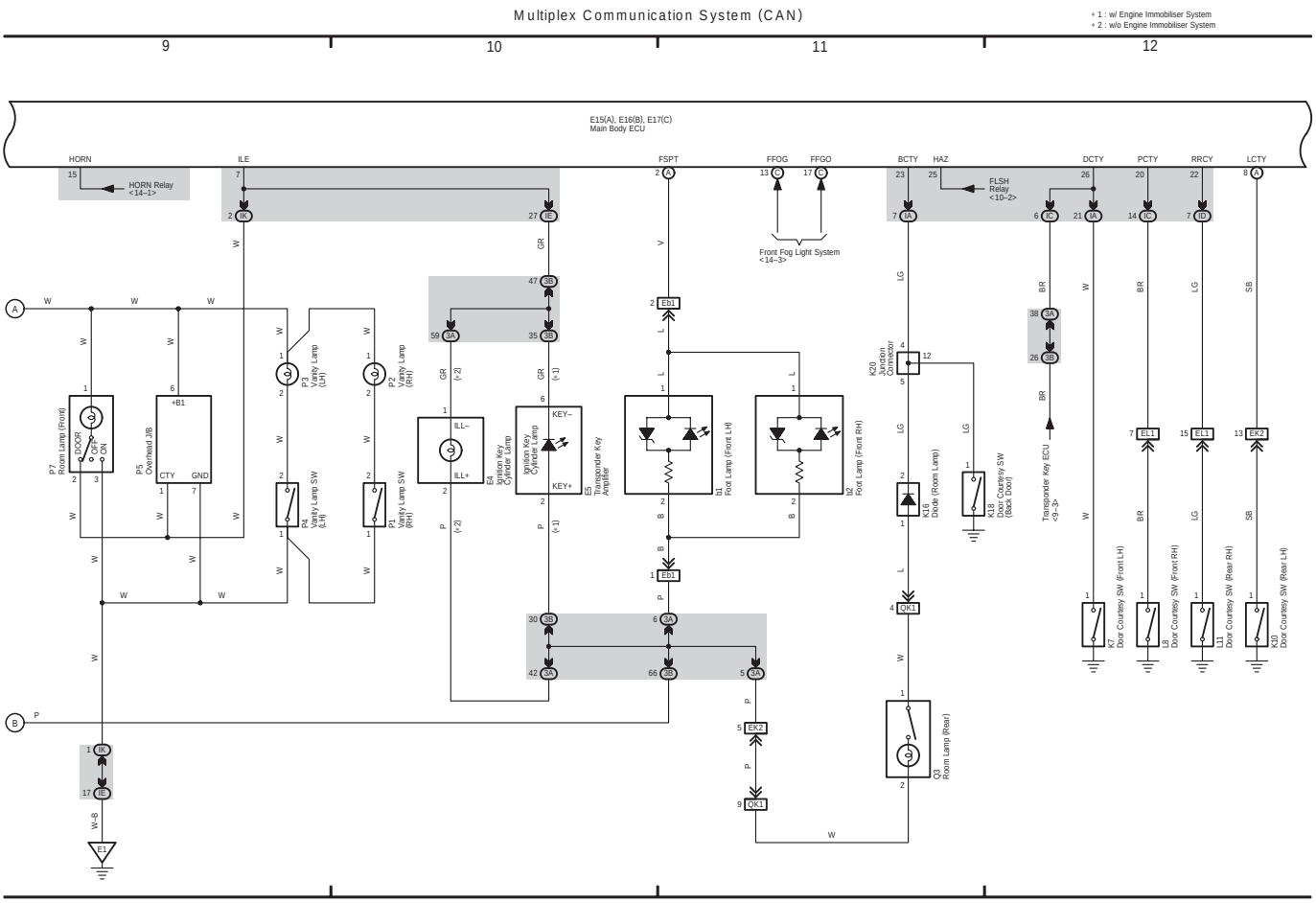
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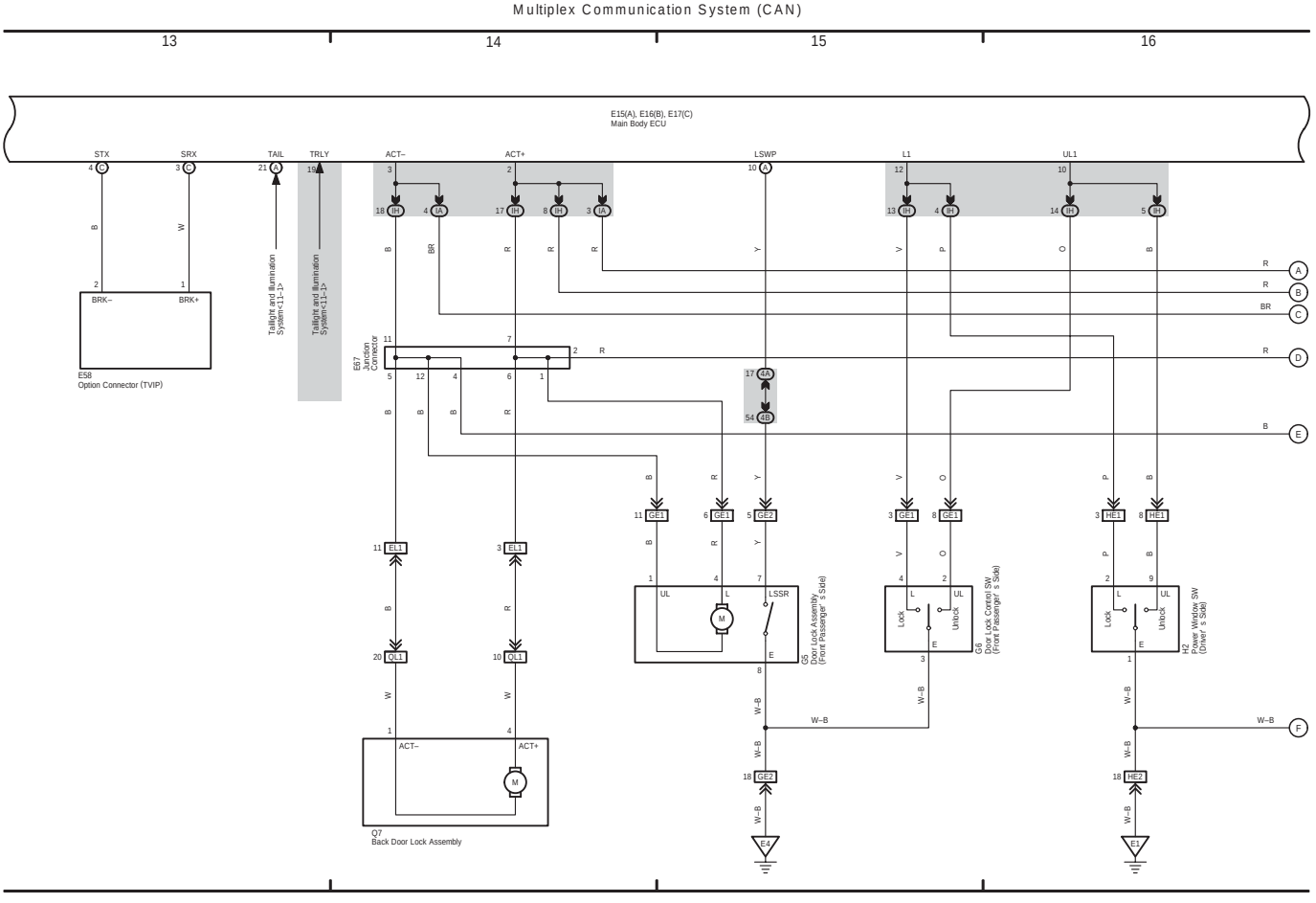
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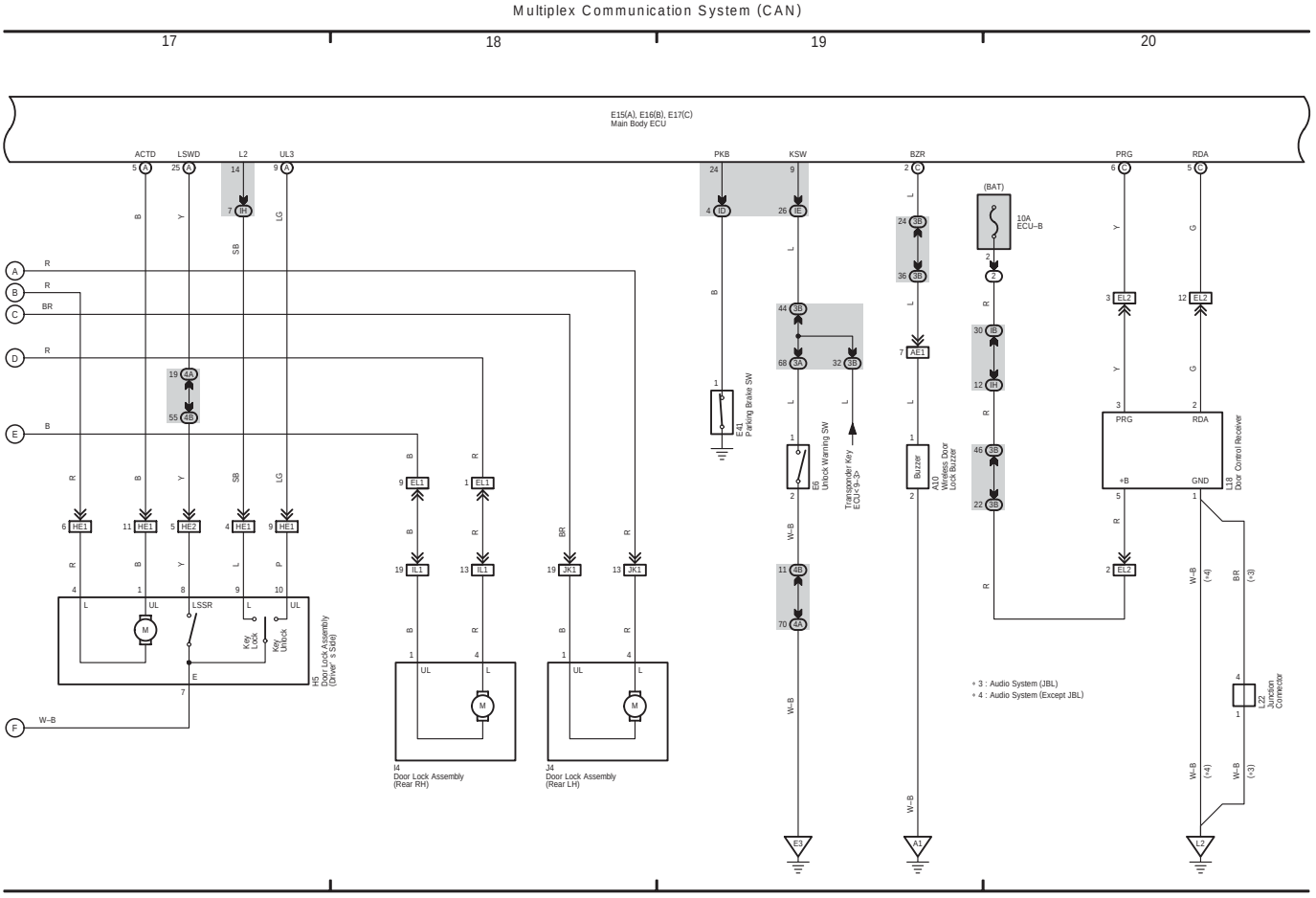
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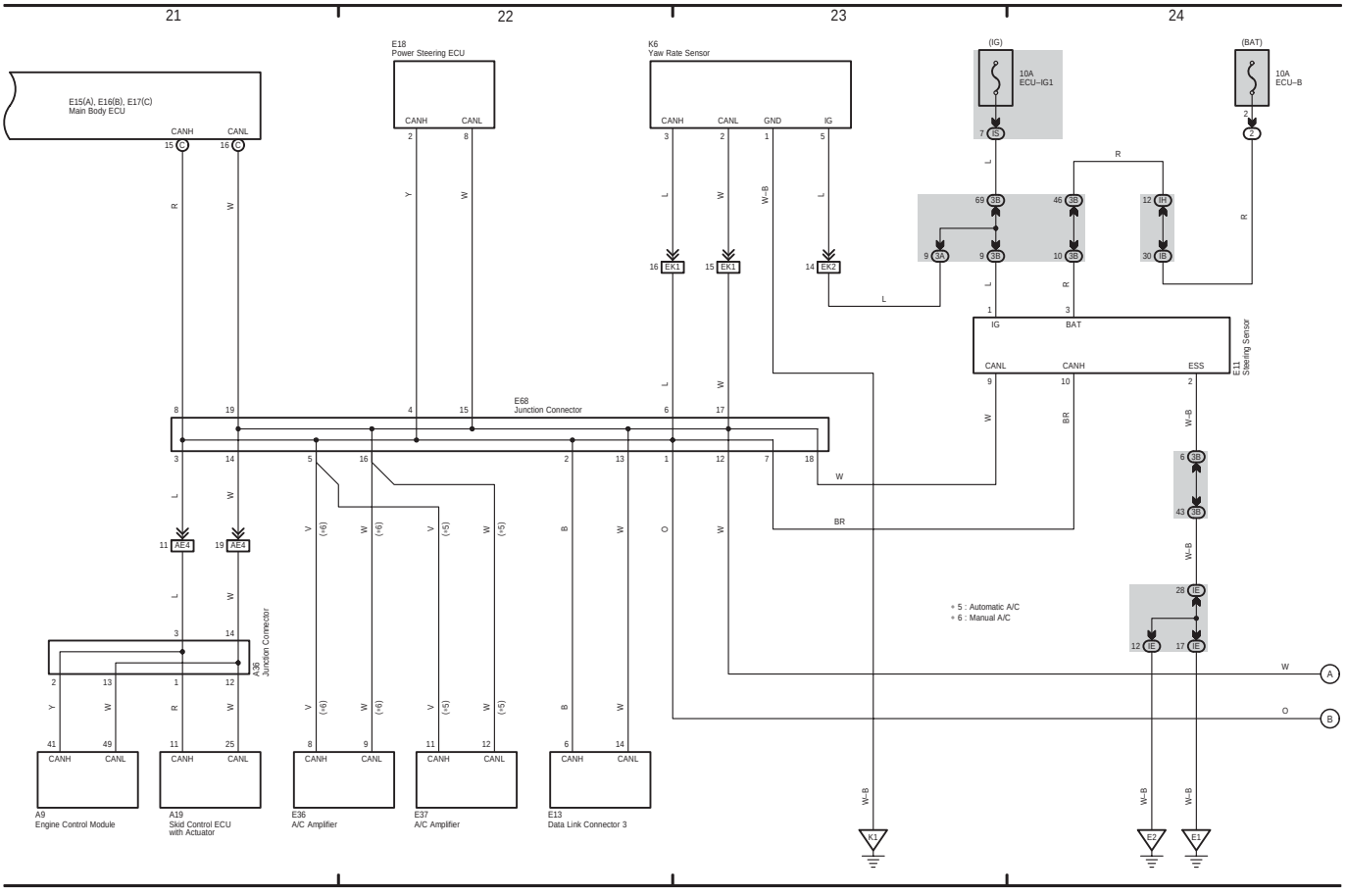
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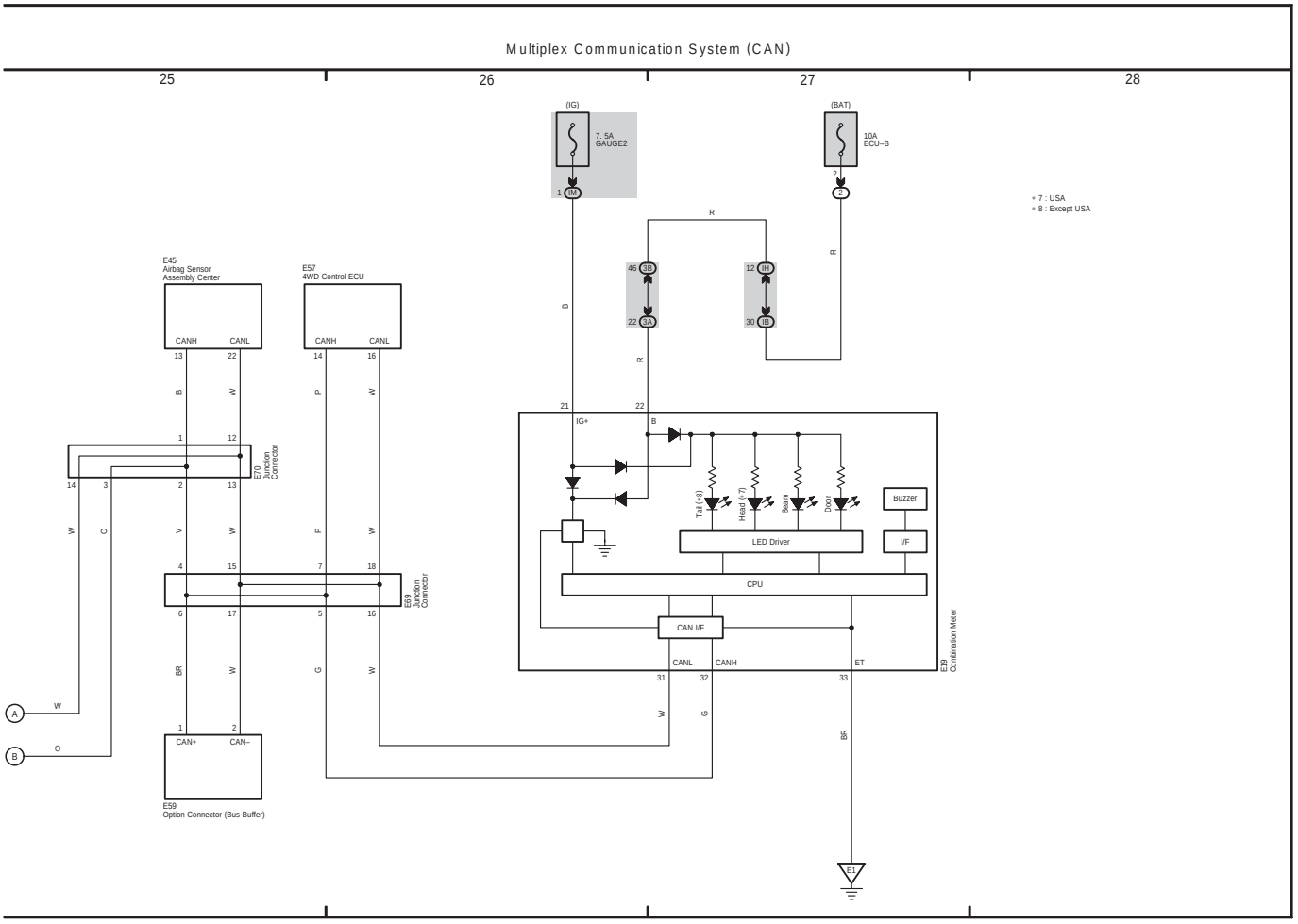
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Multiplex Communication System (CAN)

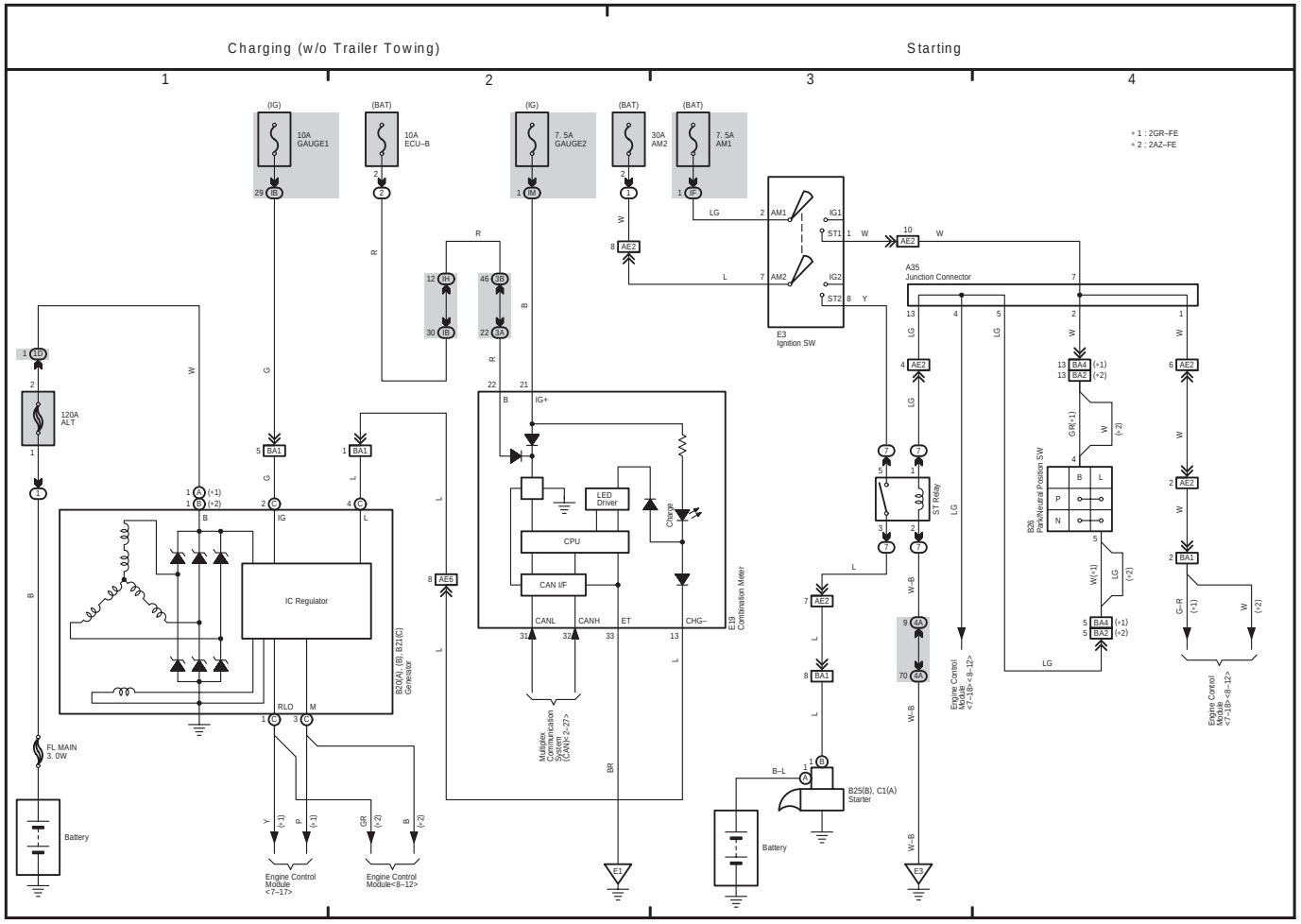


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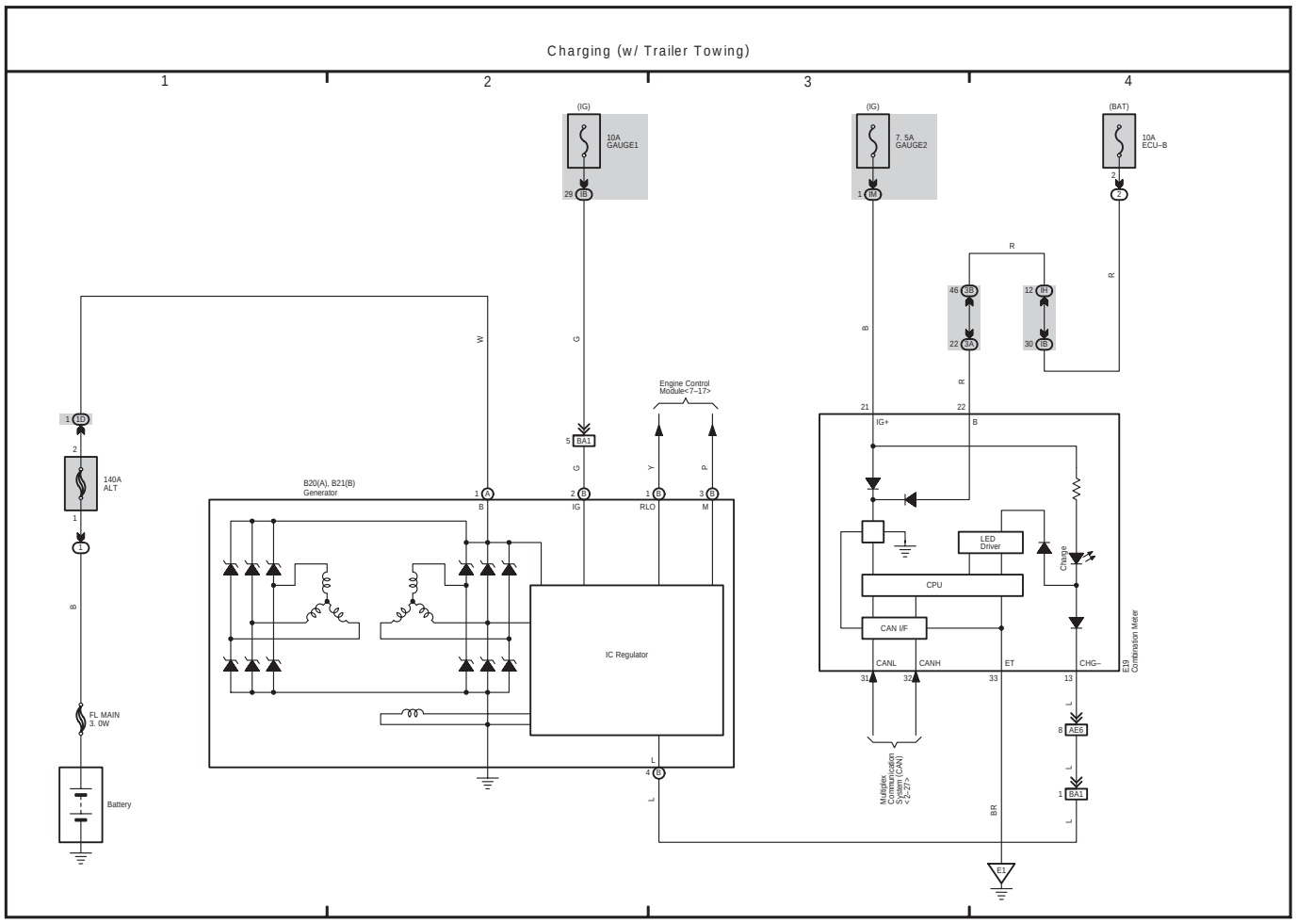


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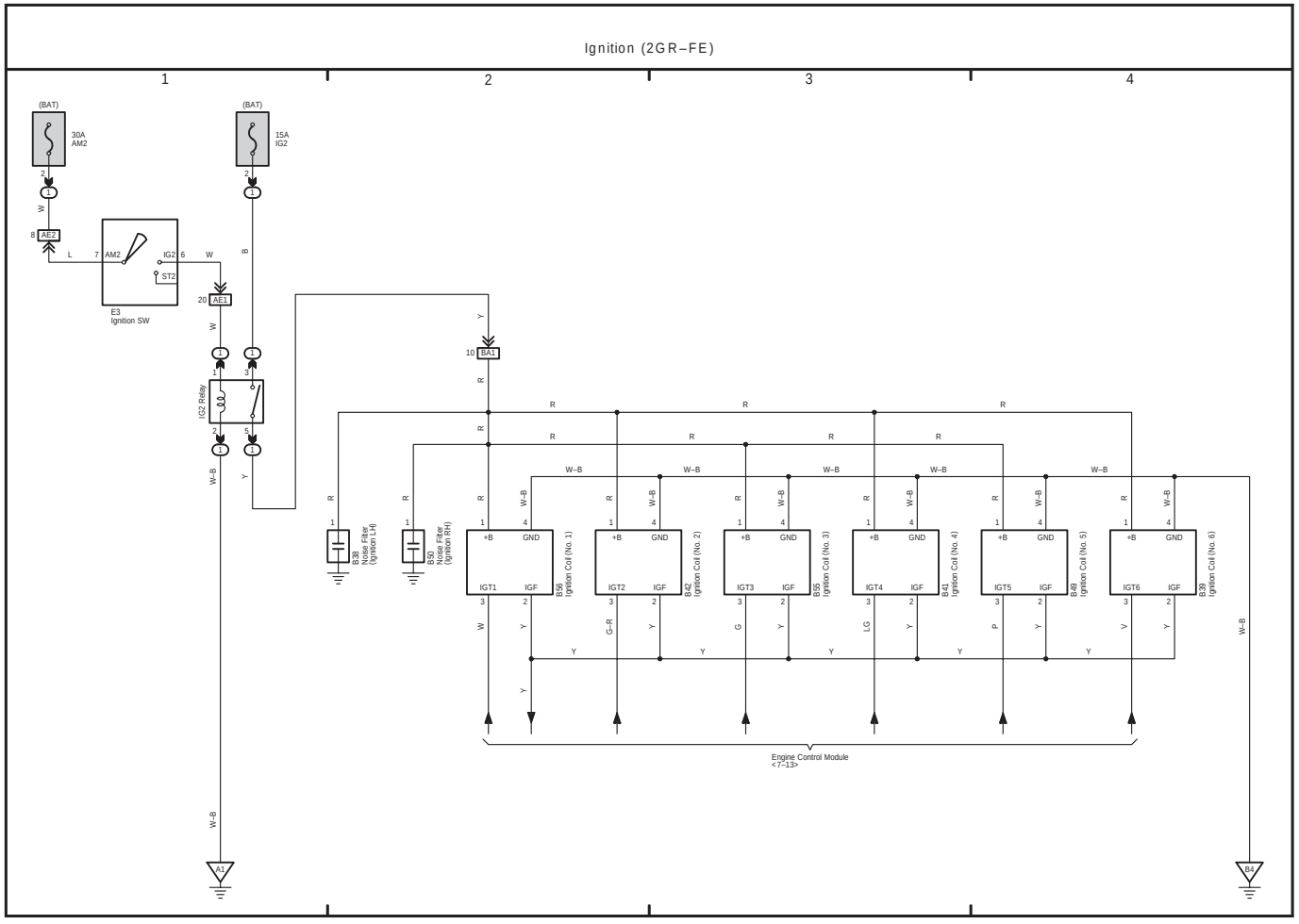
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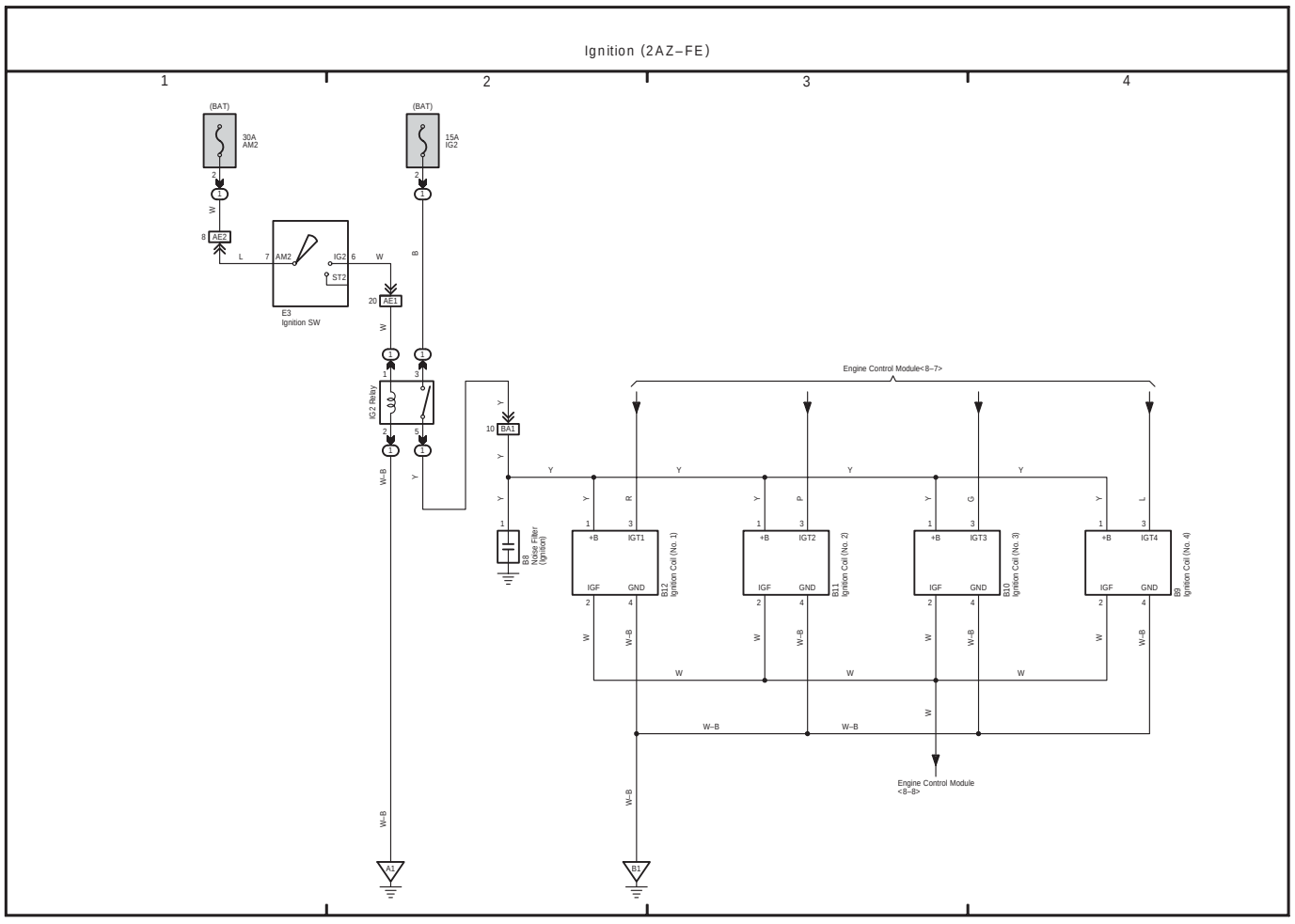
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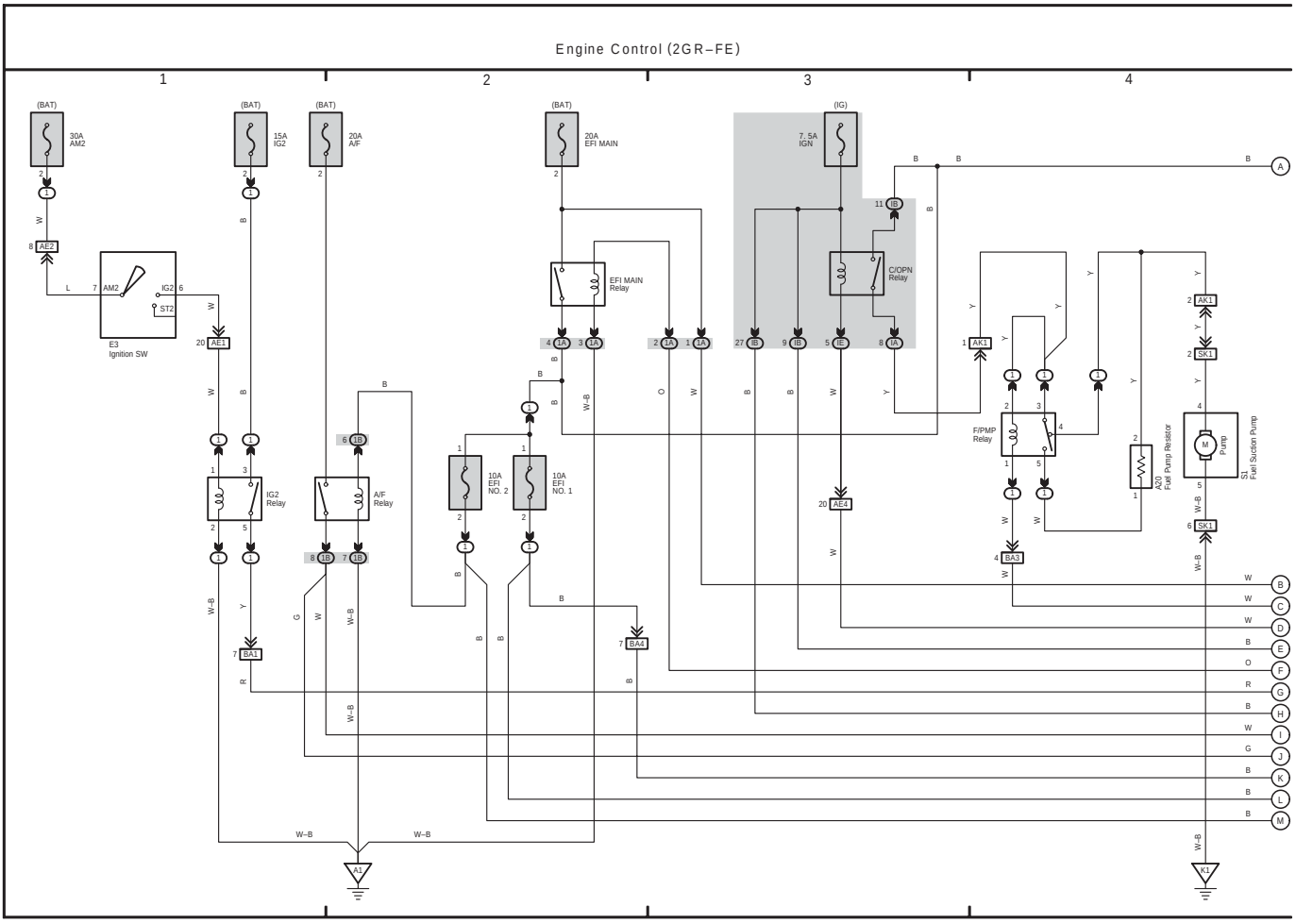
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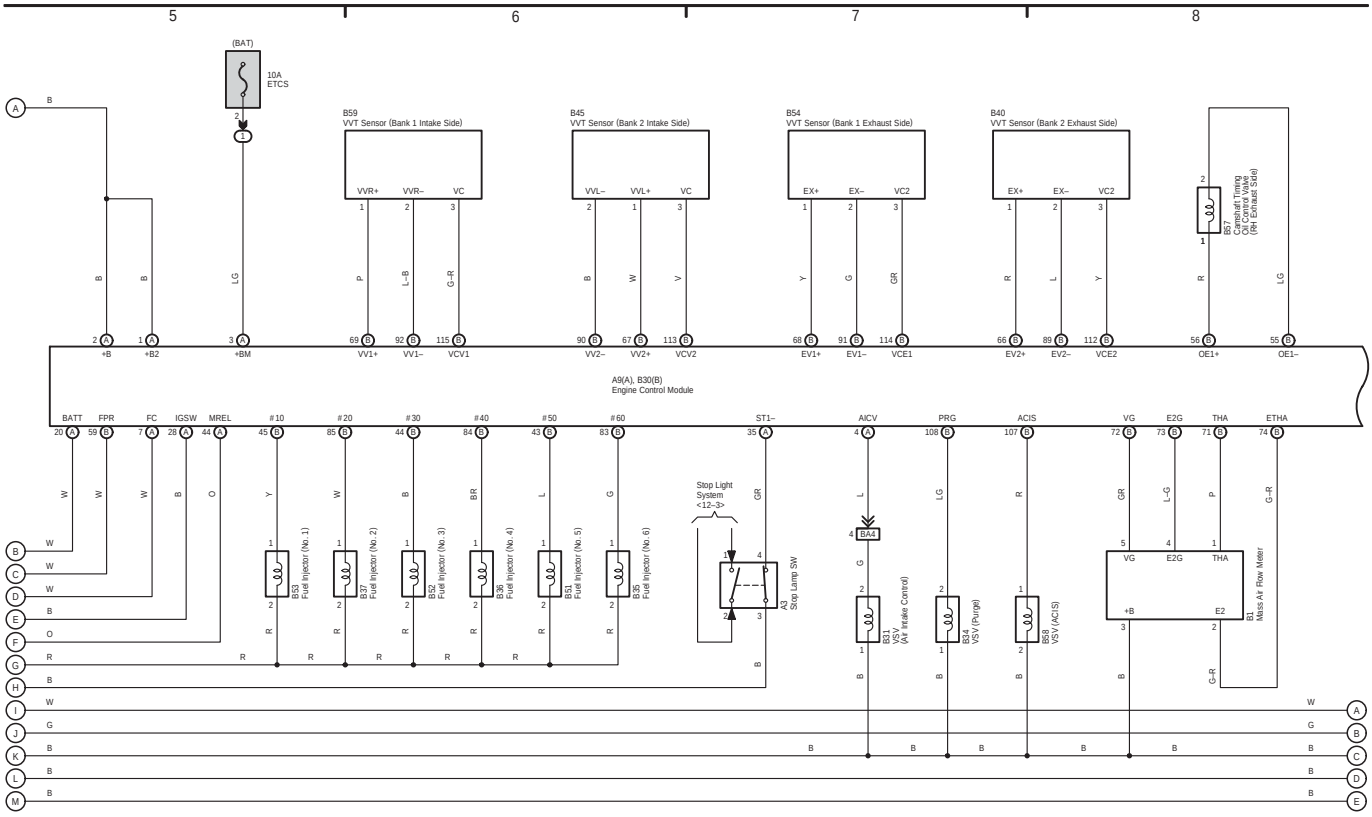
Engine Control (2GR–FE)



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Engine Control (2GR–FE)

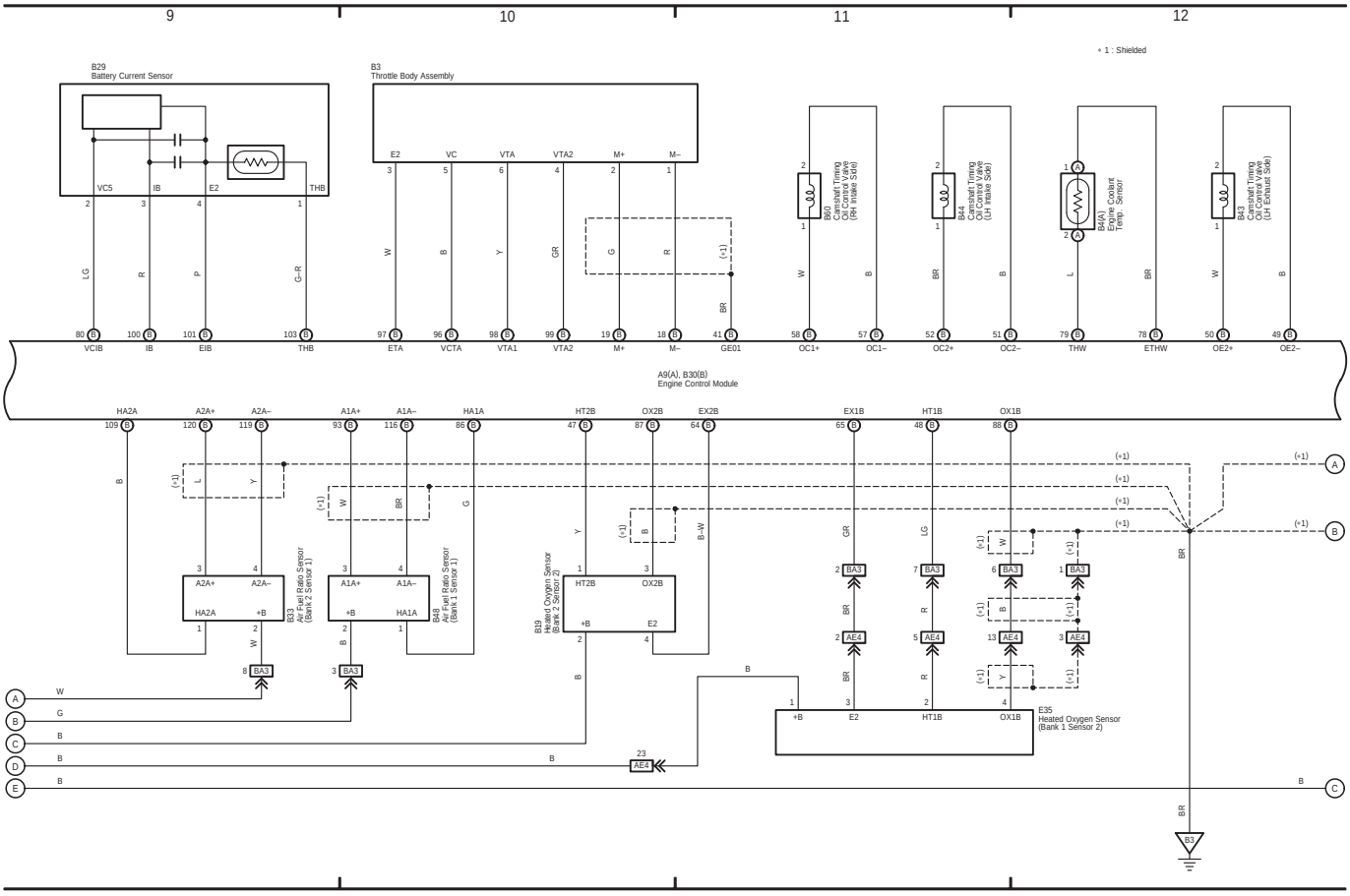


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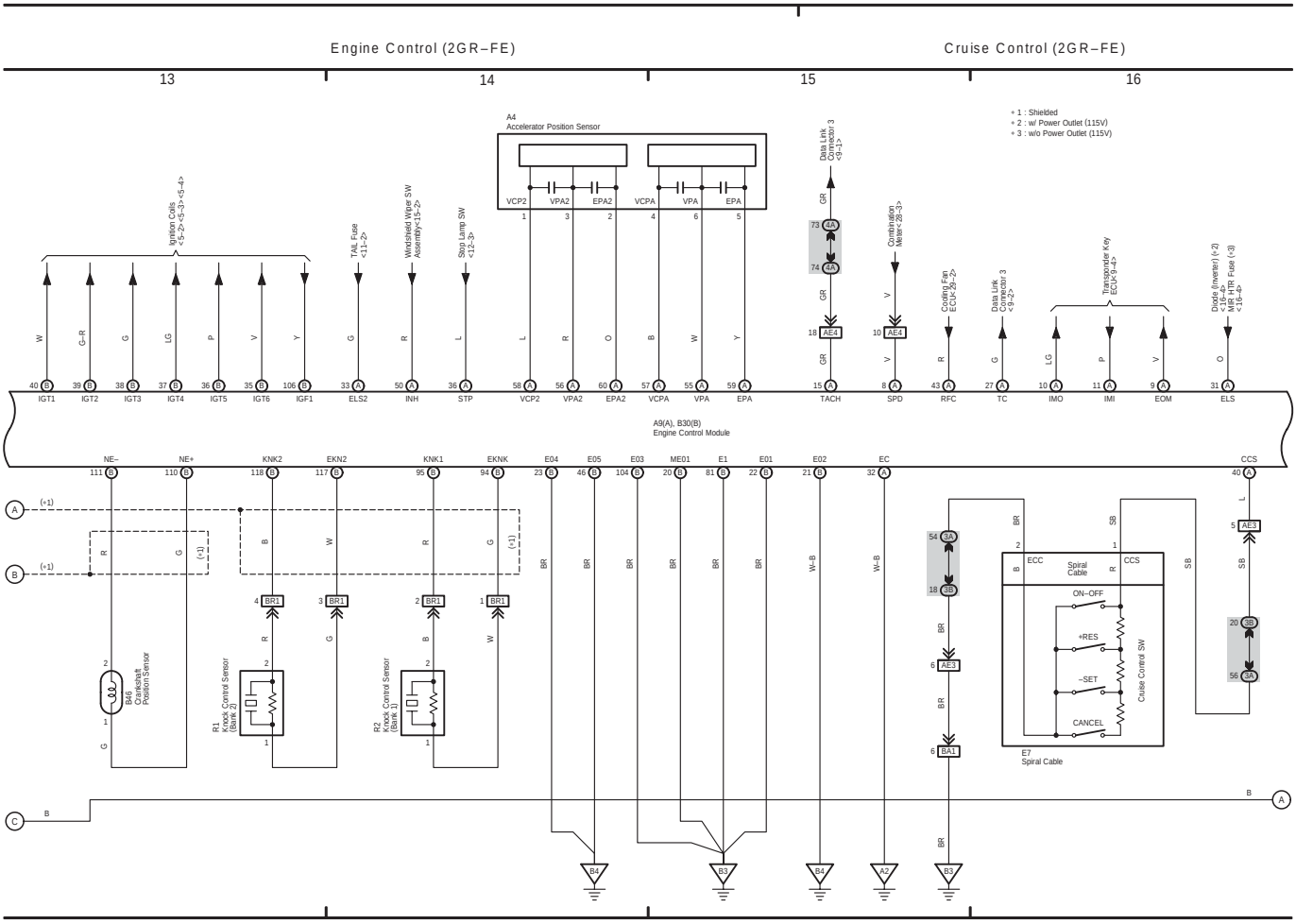
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Engine Control (2GR–FE)



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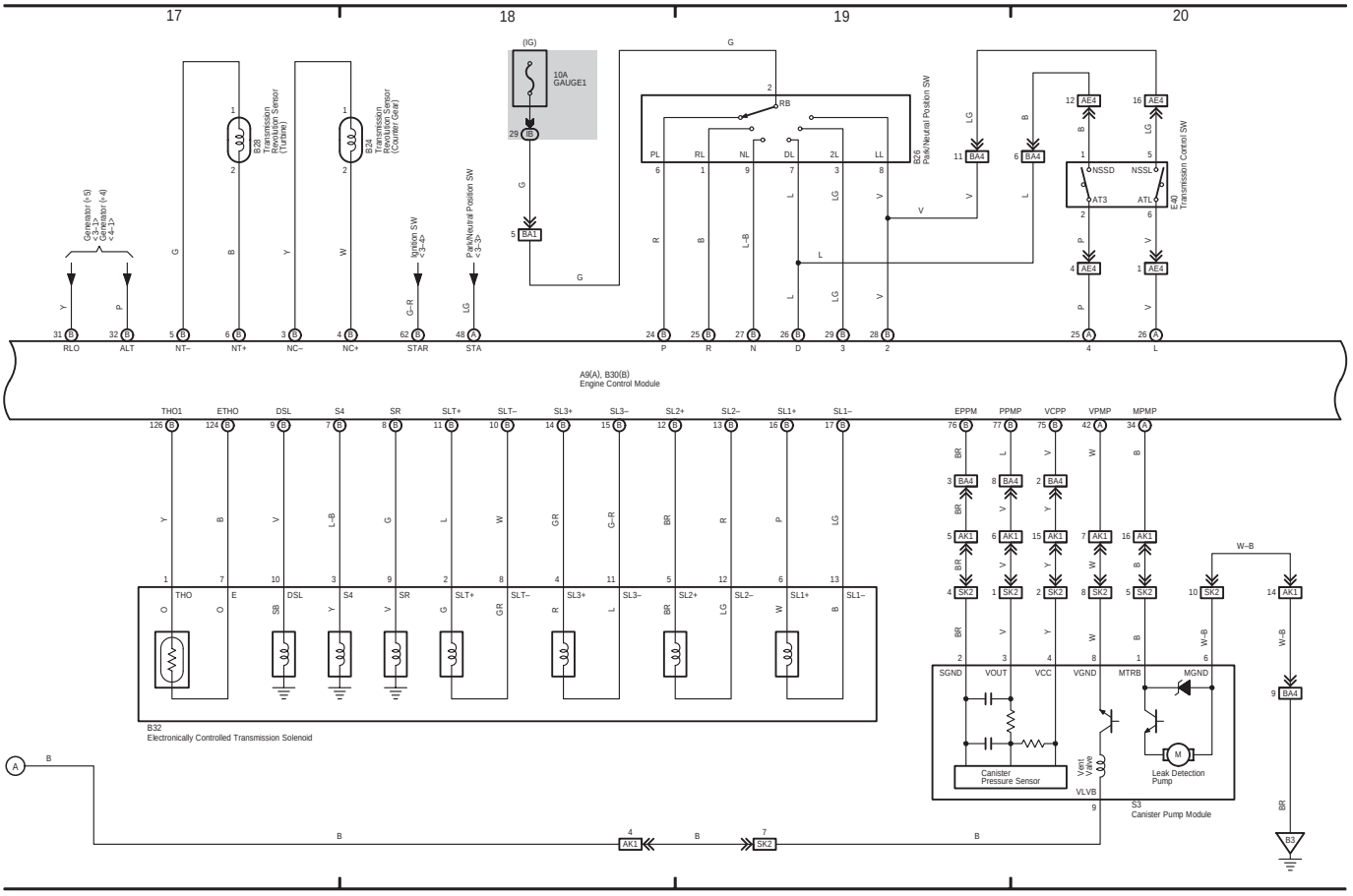
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Electronically Controlled Transmission and A/T Indicator (2GR–FE)

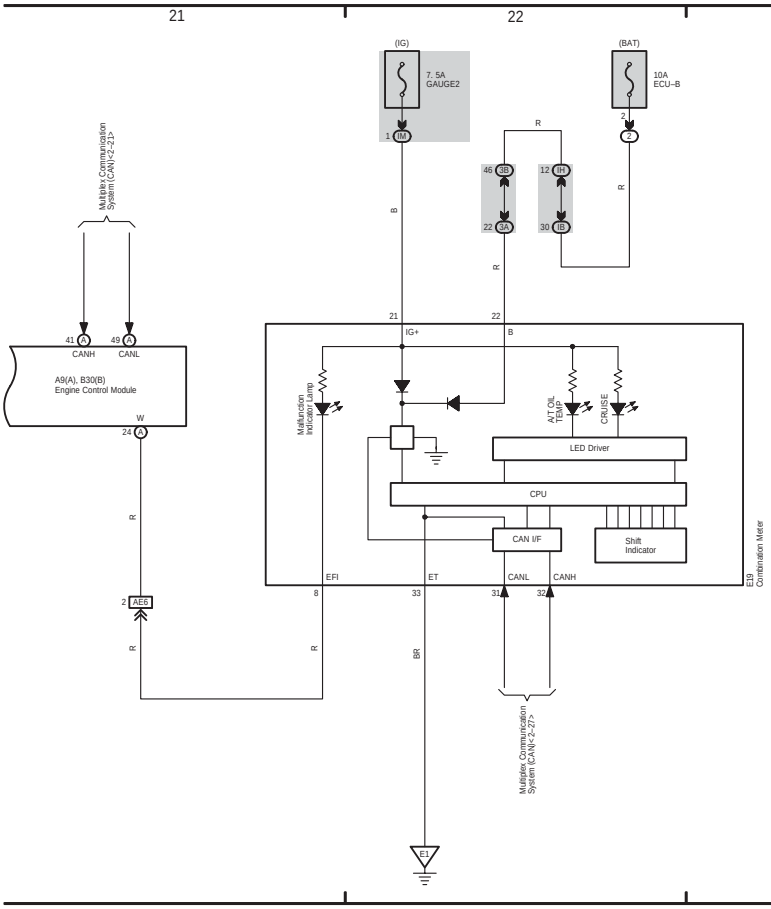
* 4 : w/ Trailer Towing
* 5 : w/o Trailer Towing



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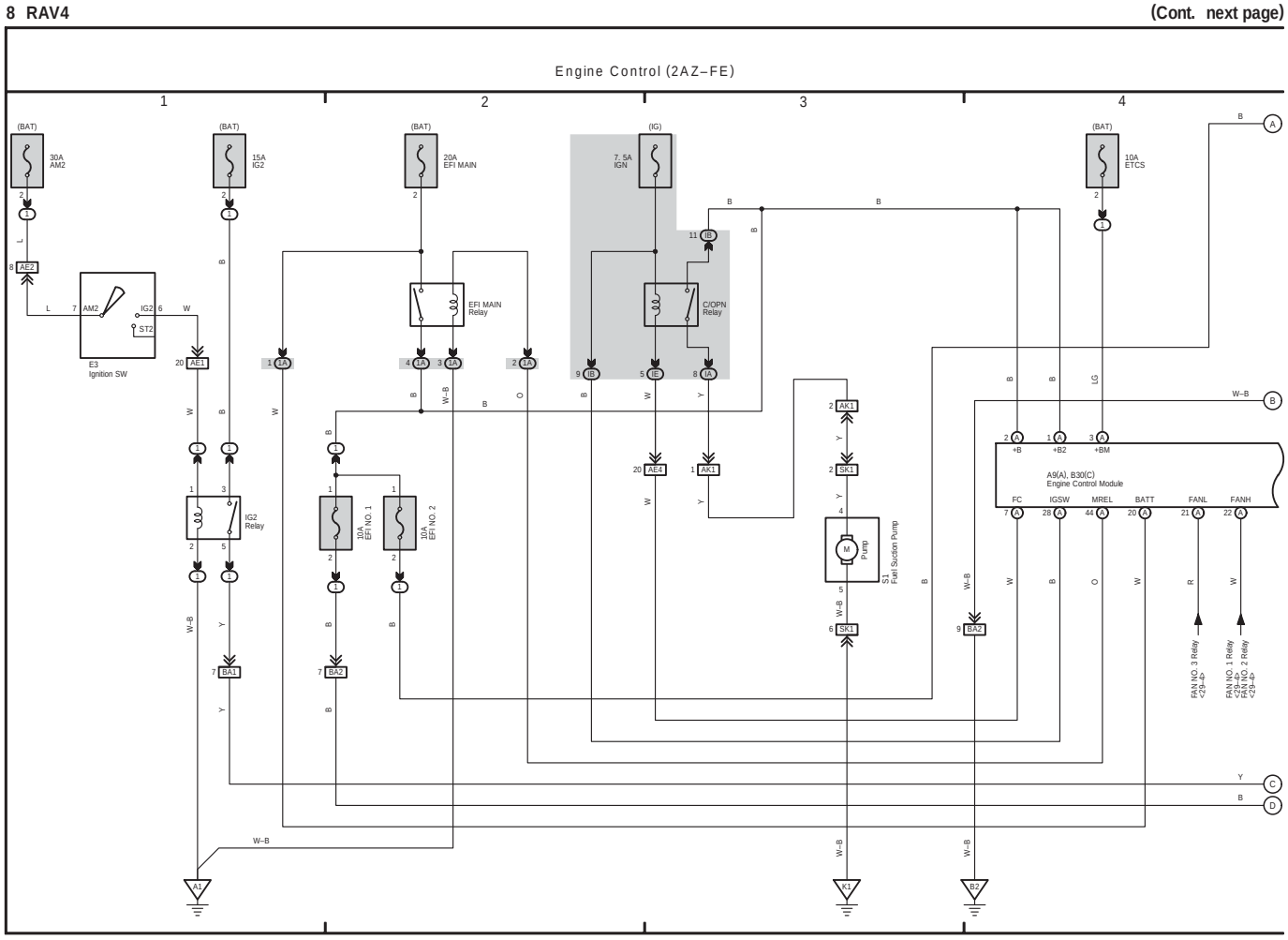
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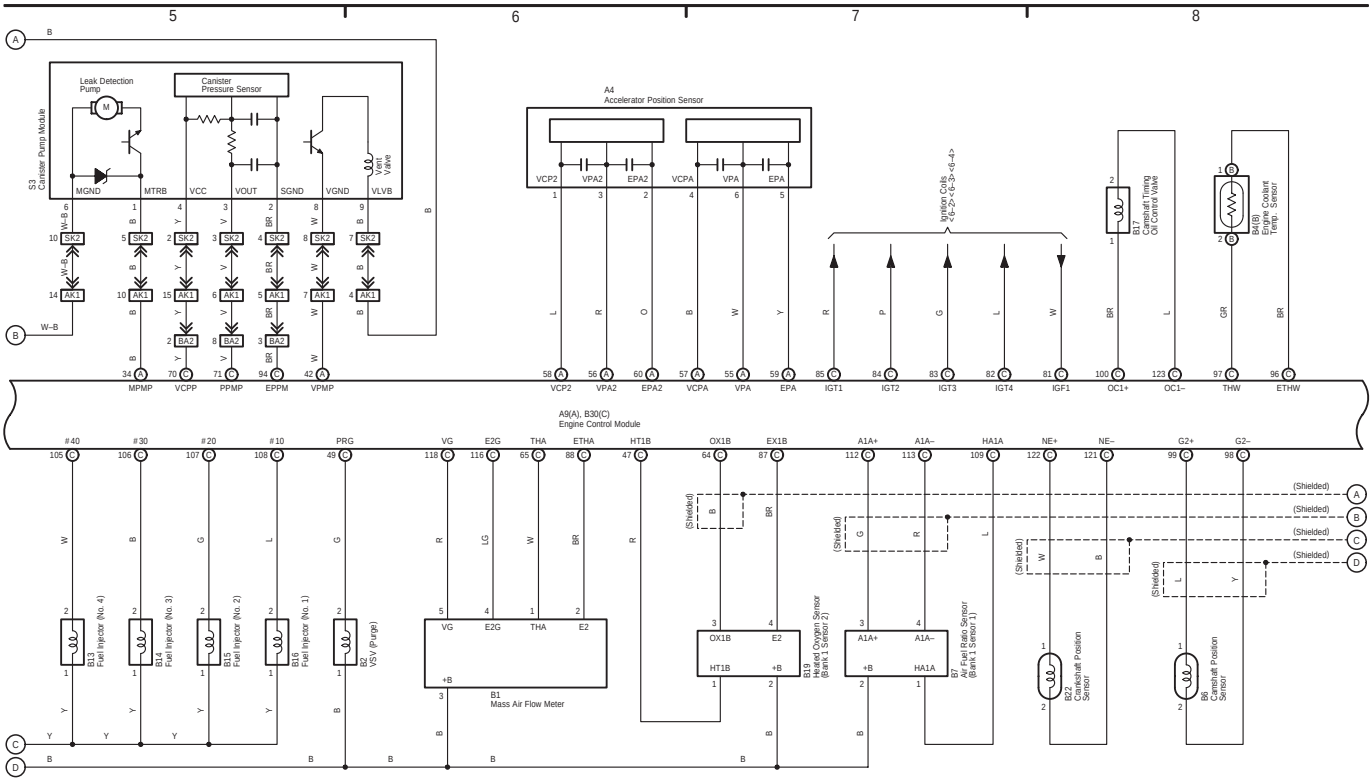
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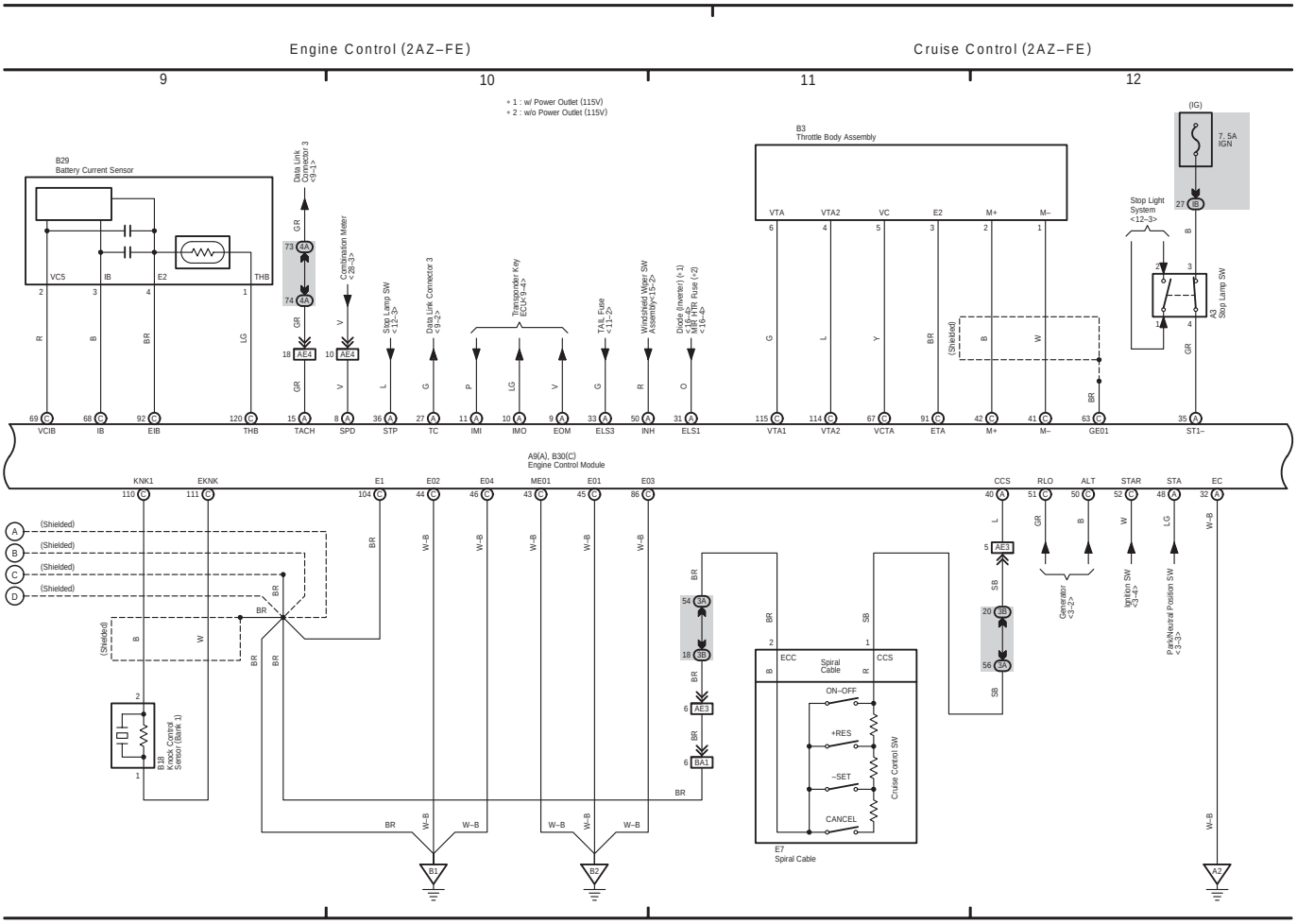
Engine Control (2AZ–FE)



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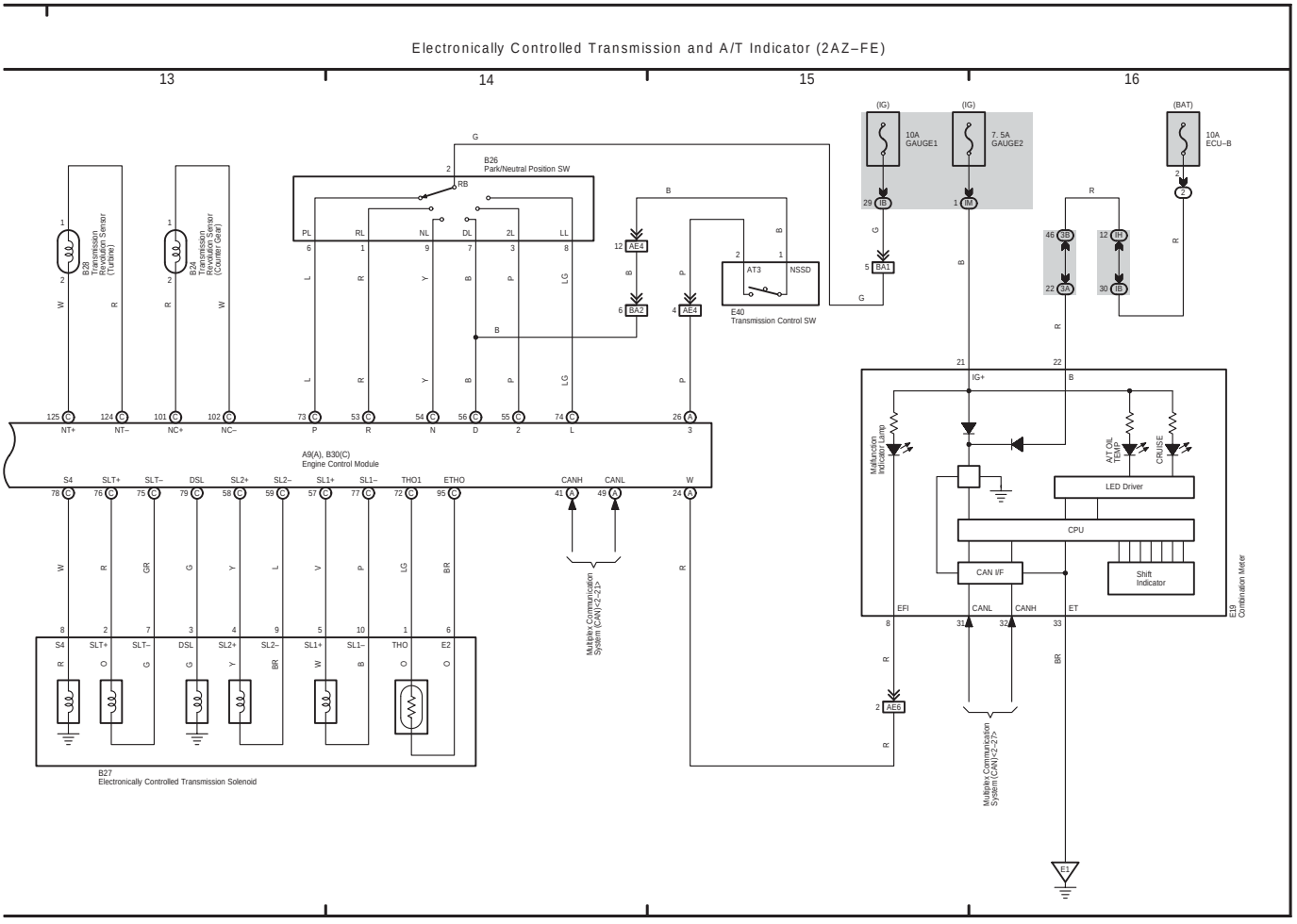
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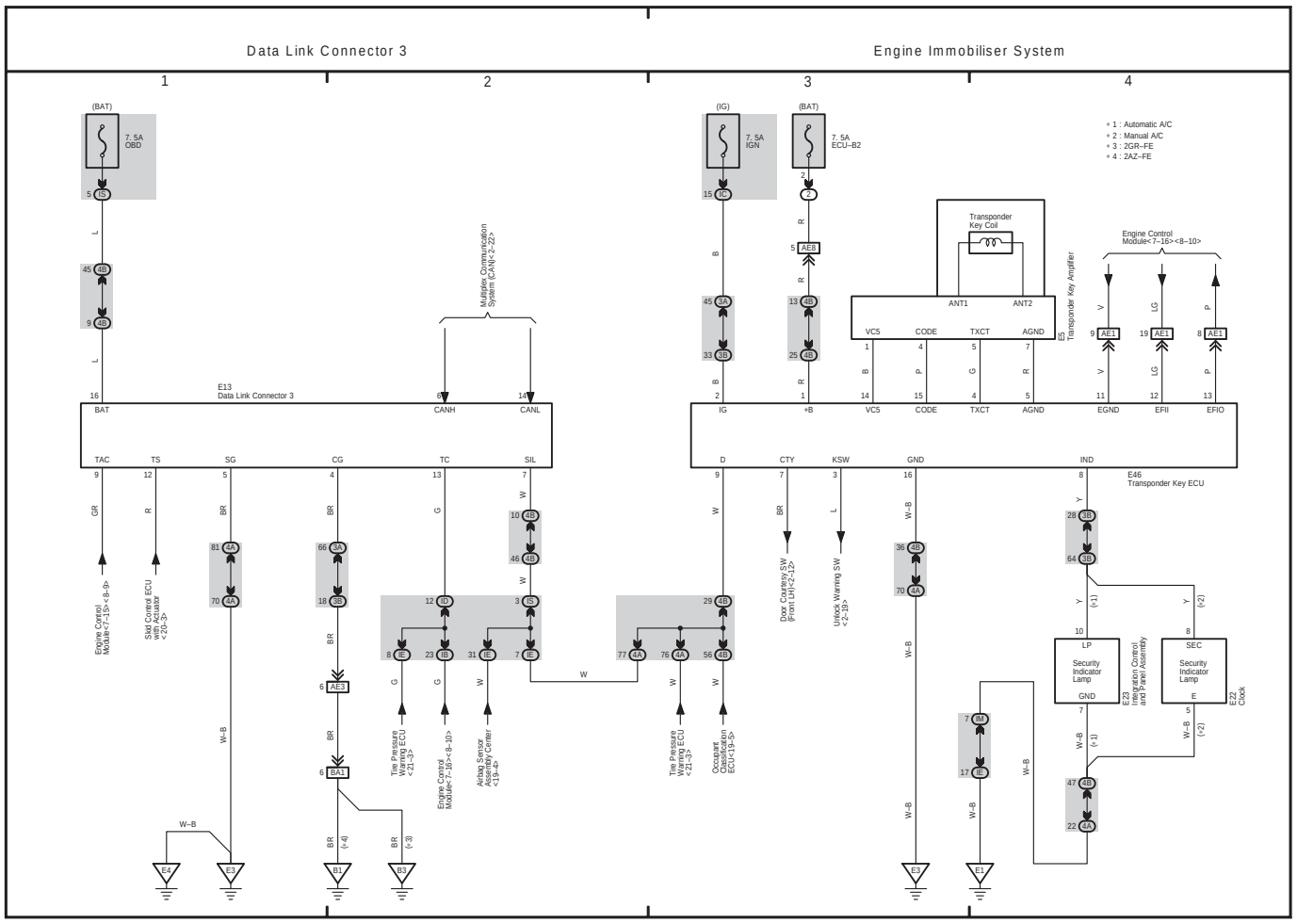
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Electronically Controlled Transmission and A/T Indicator (2AZ–FE)



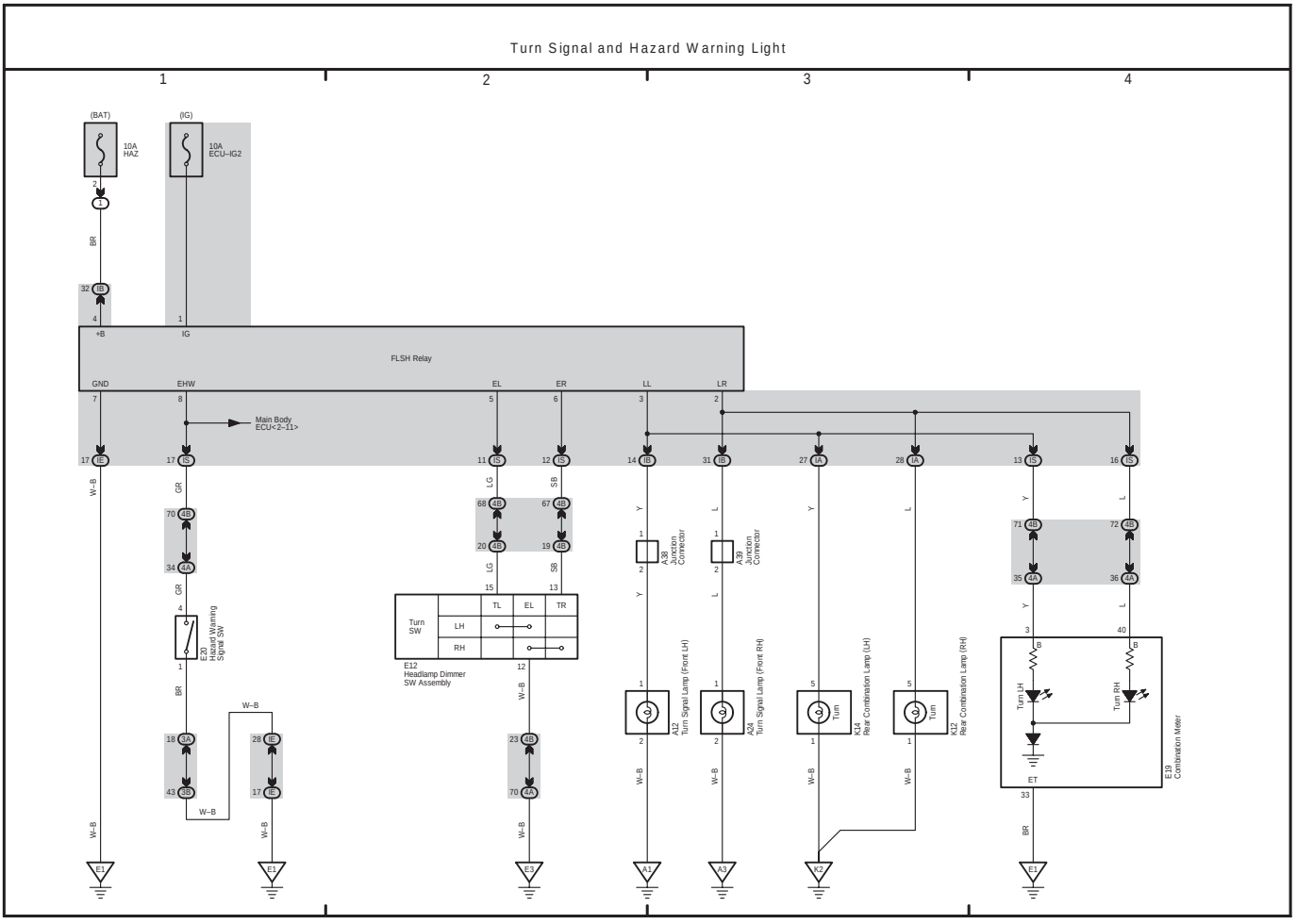
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Turn Signal and Hazard Warning Light

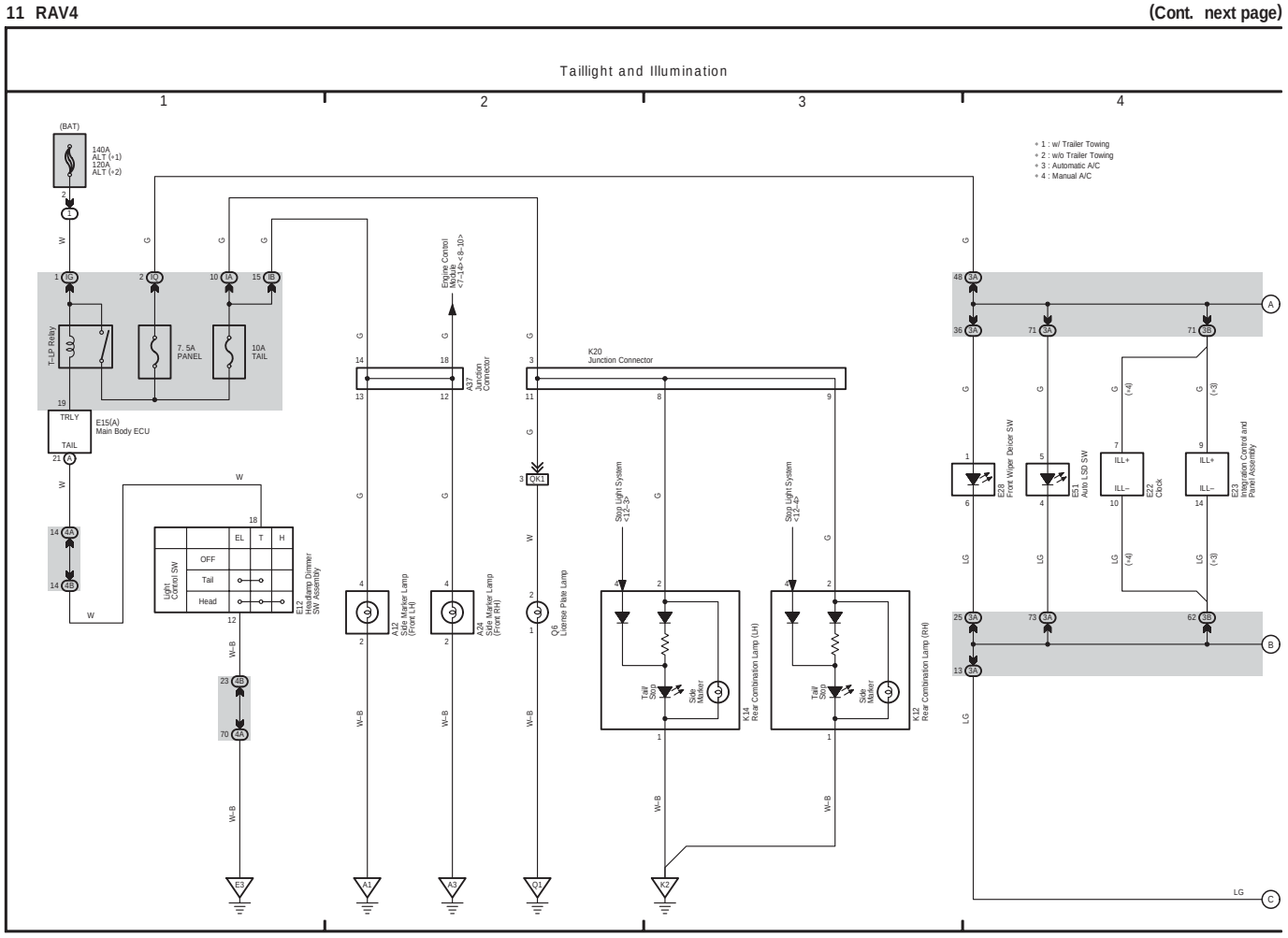


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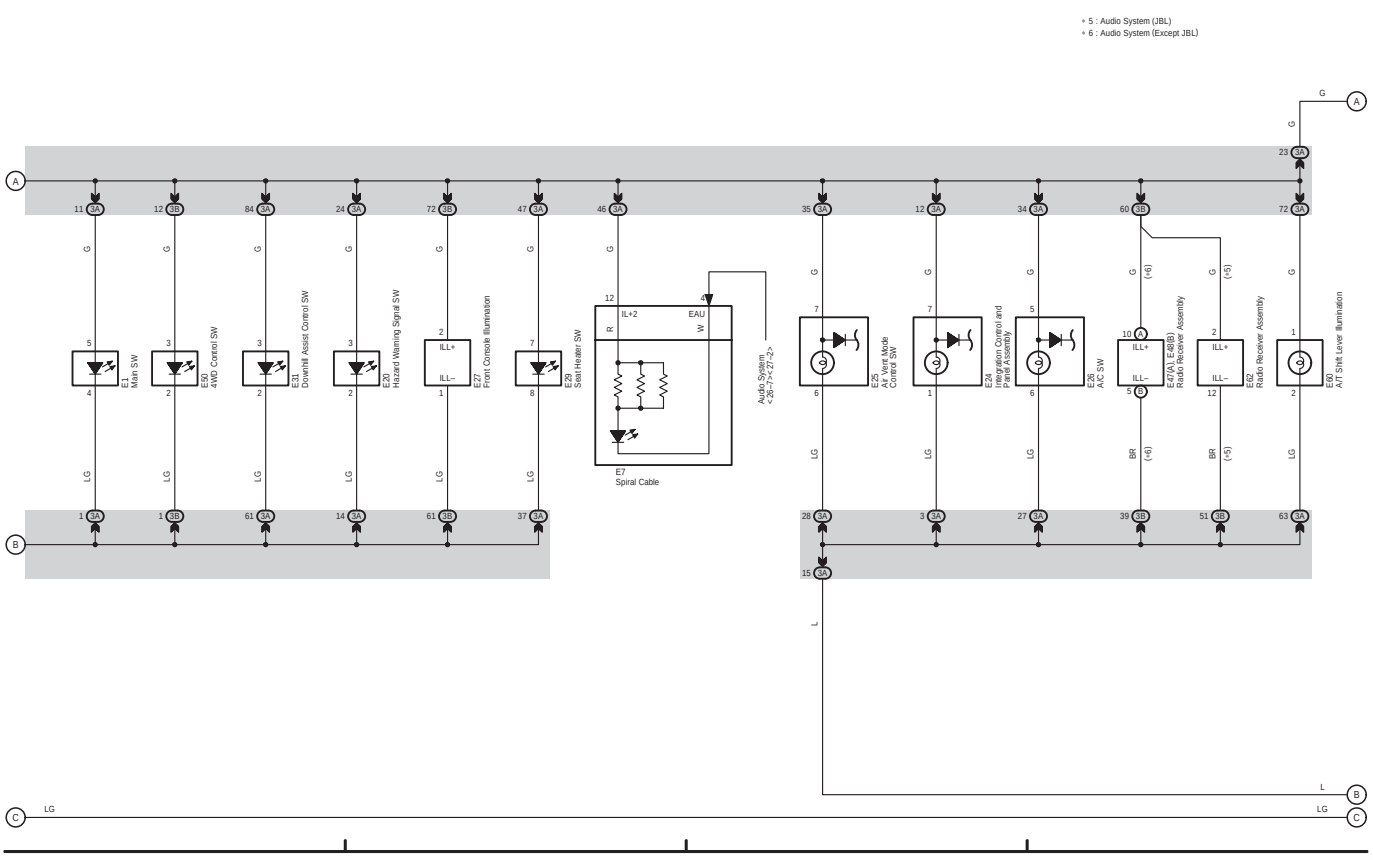
Taillight and Illumination



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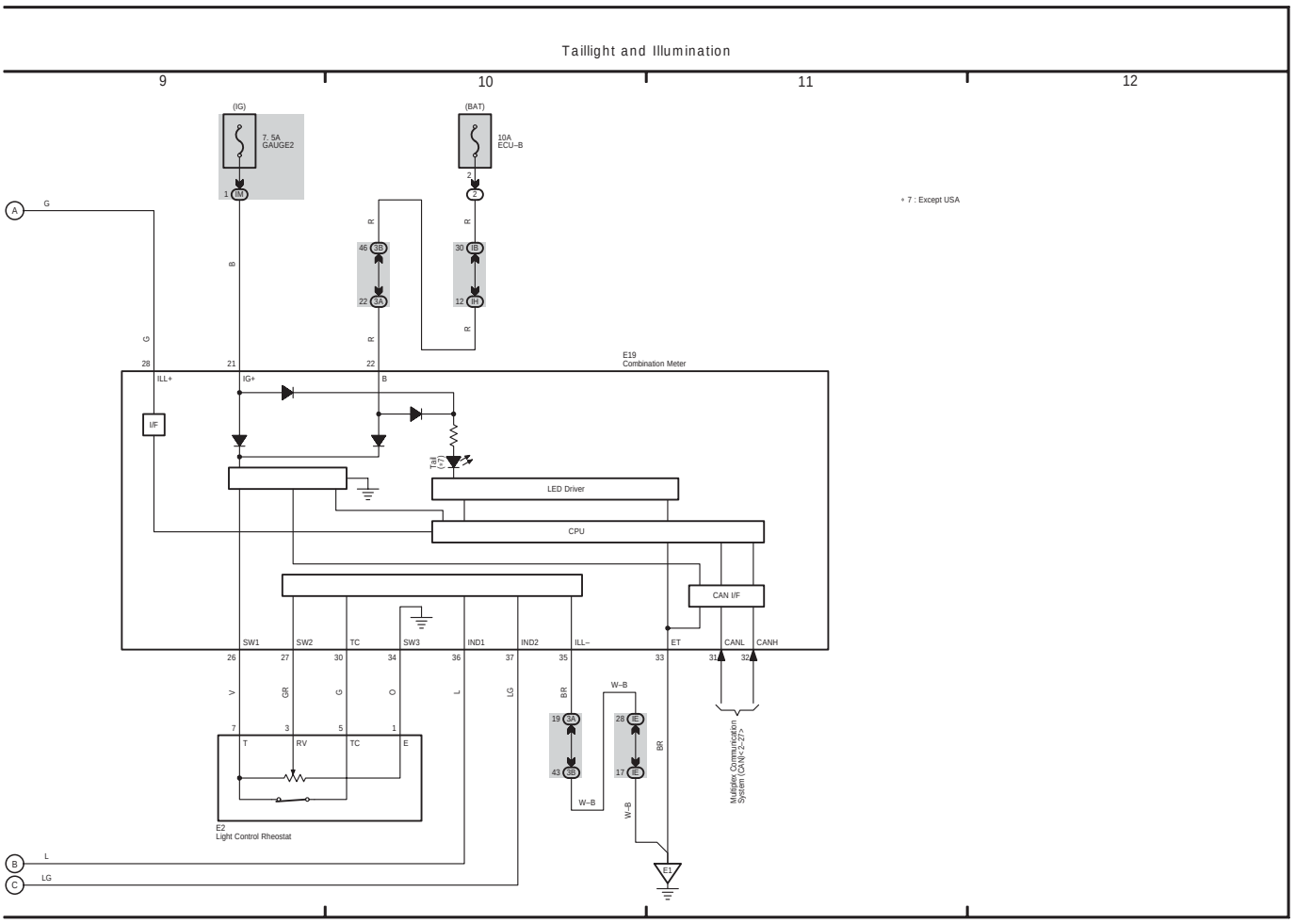
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Taillight and Illumination



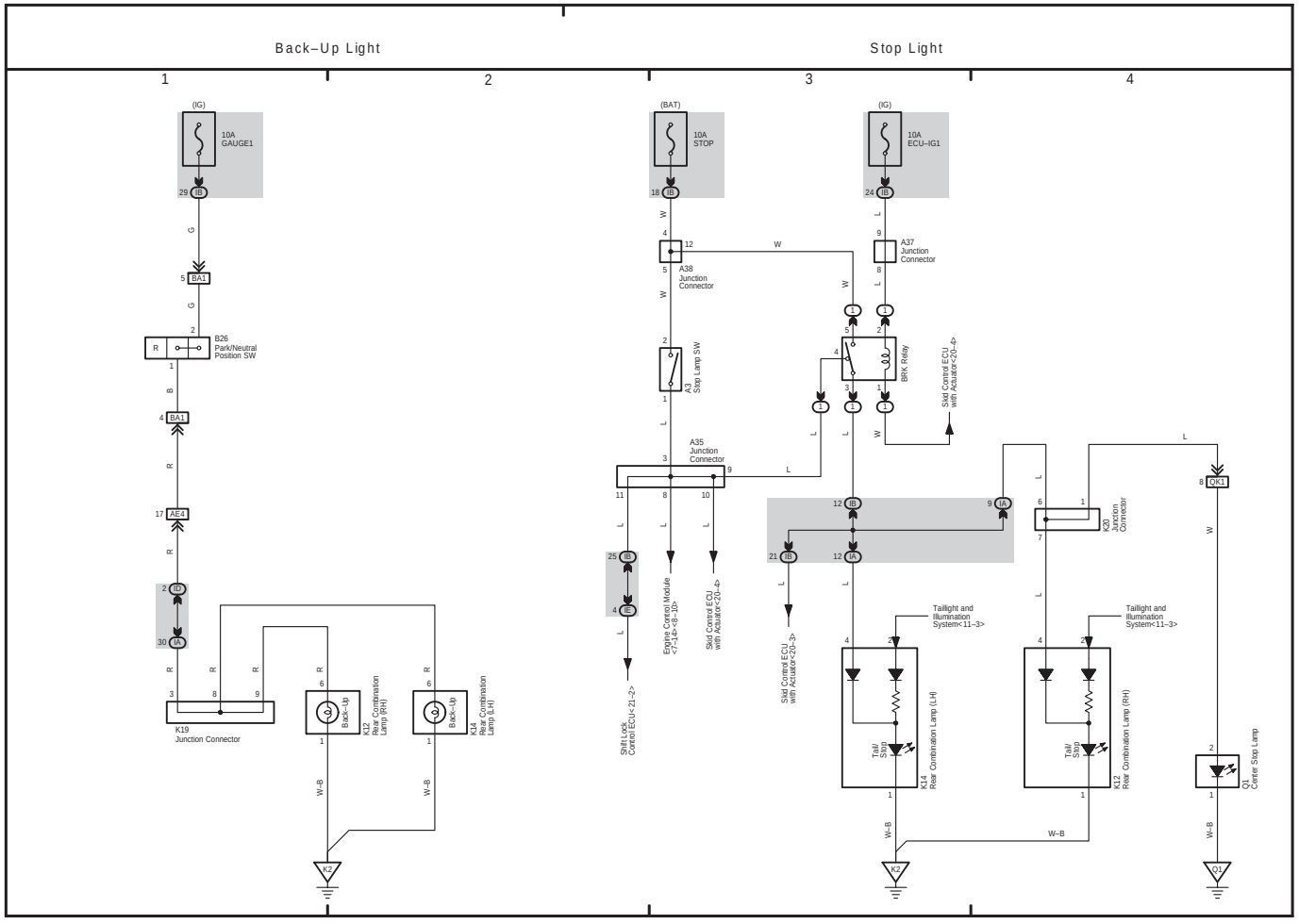
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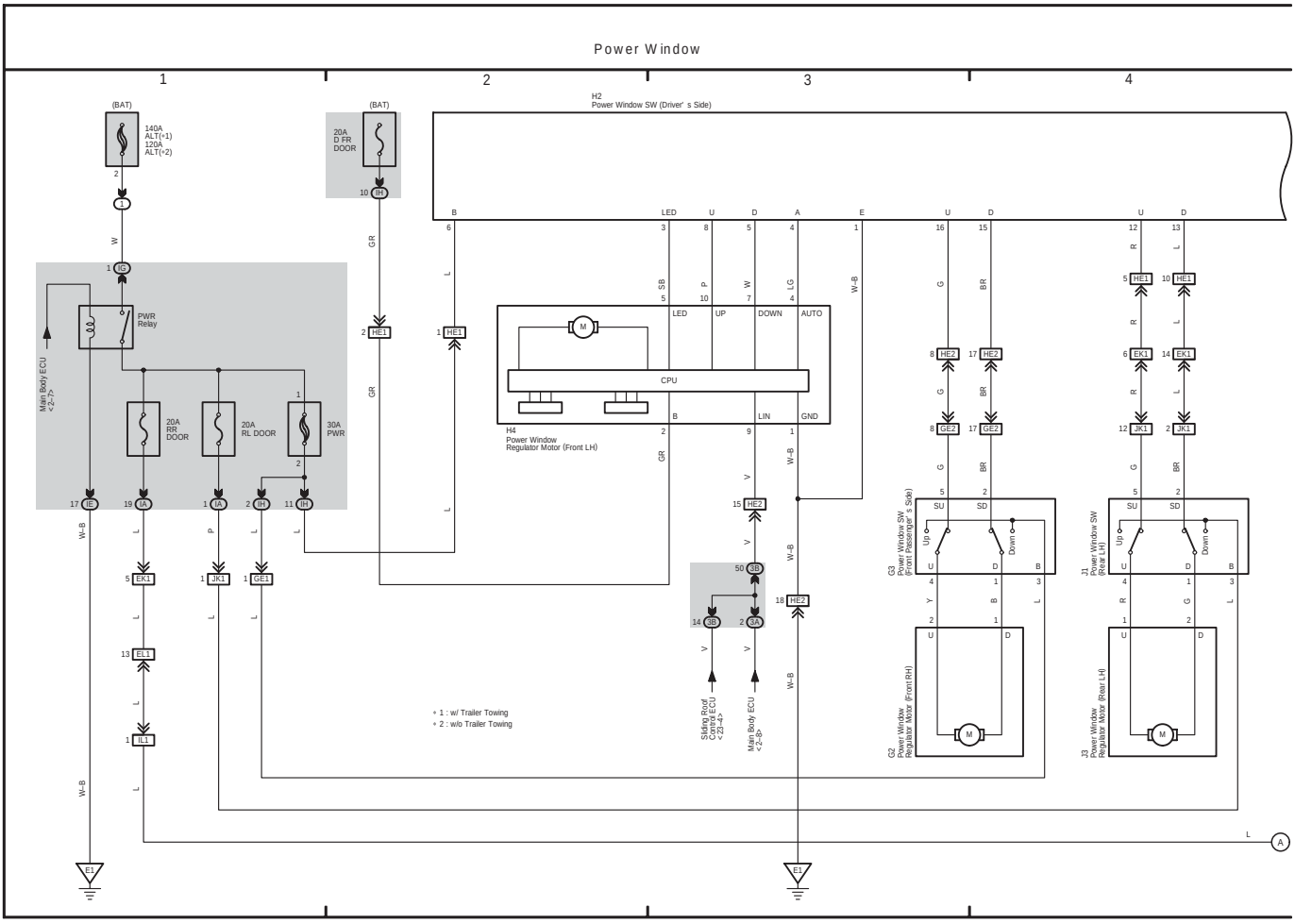


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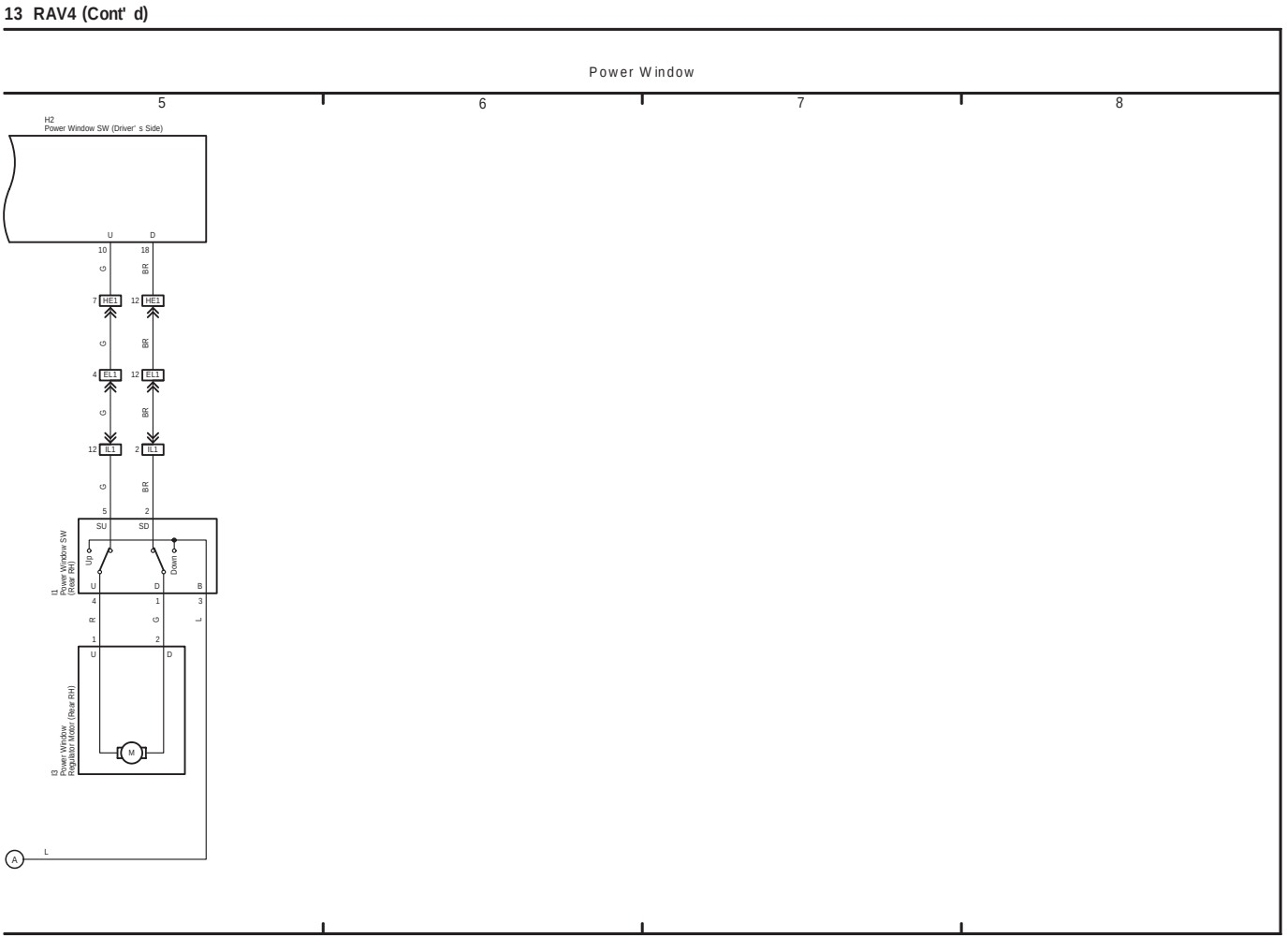
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Power Window



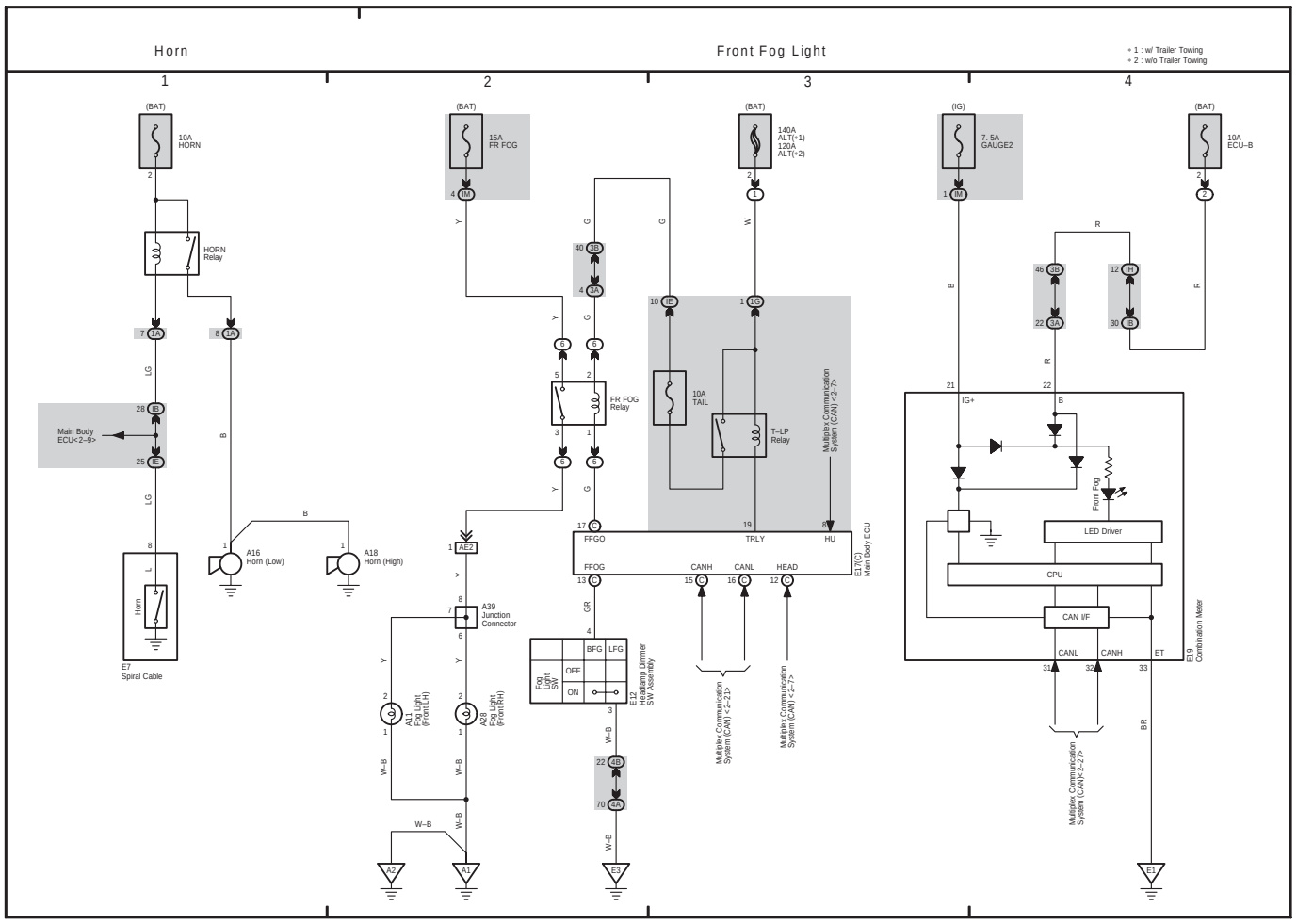
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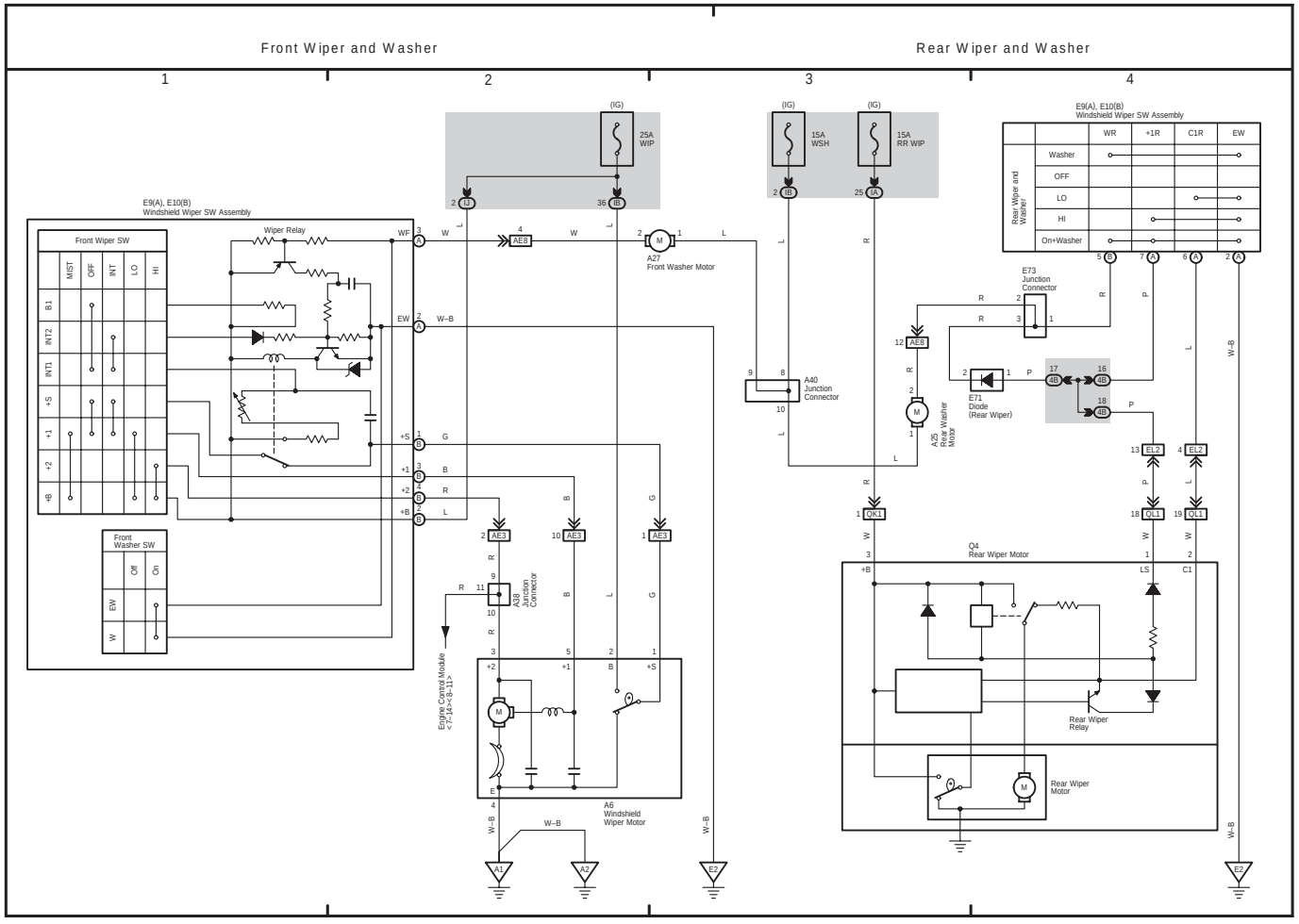


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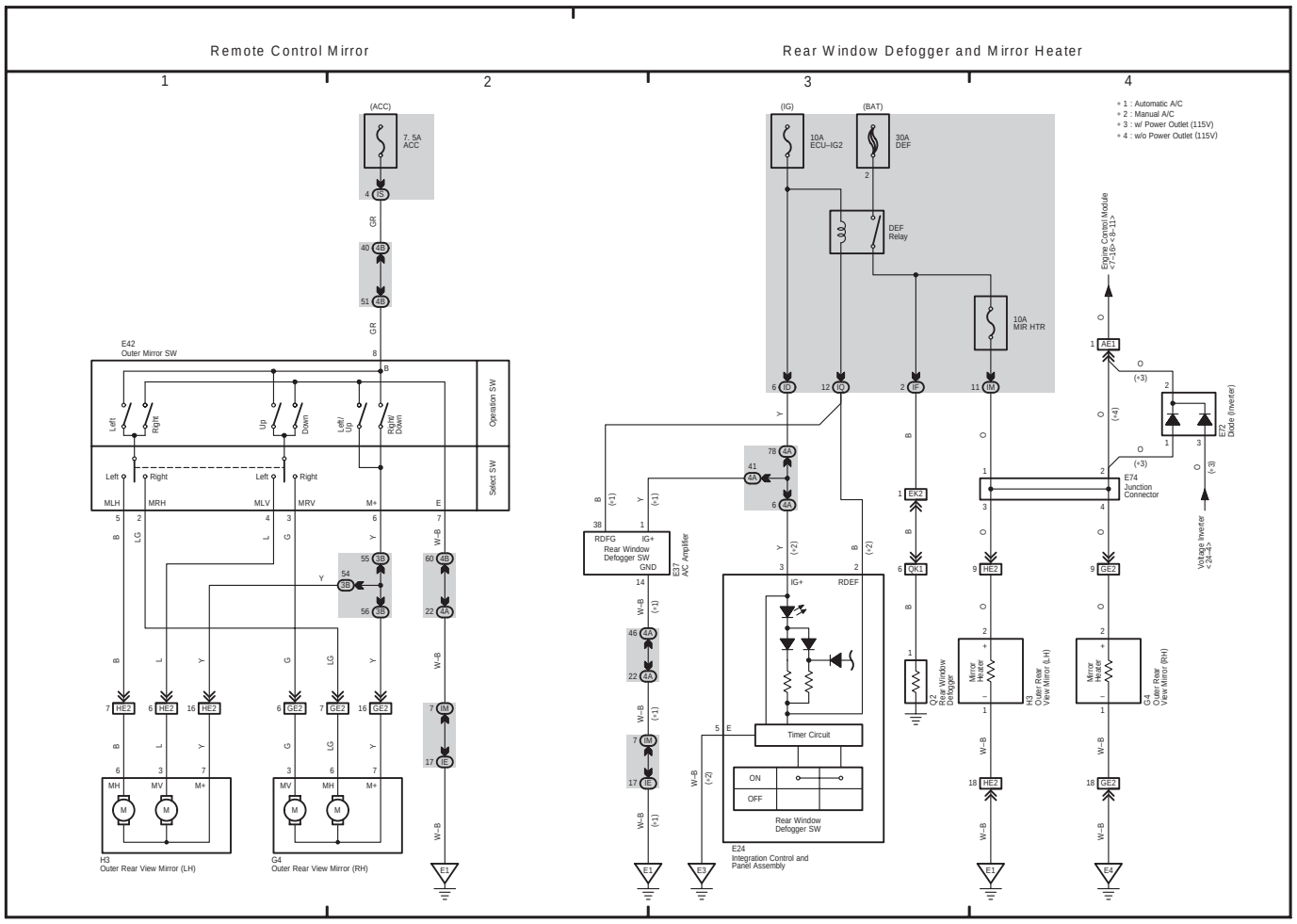


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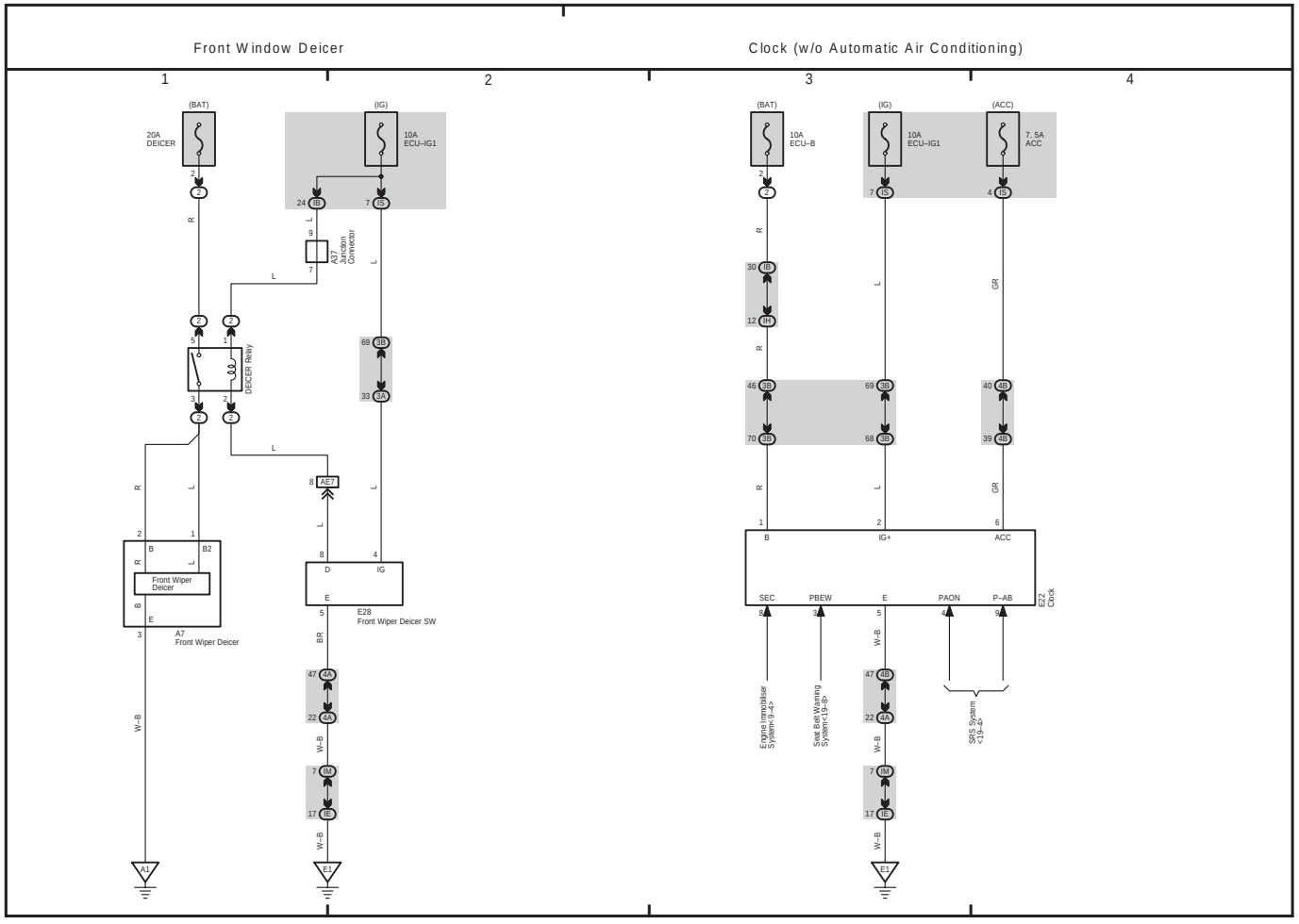
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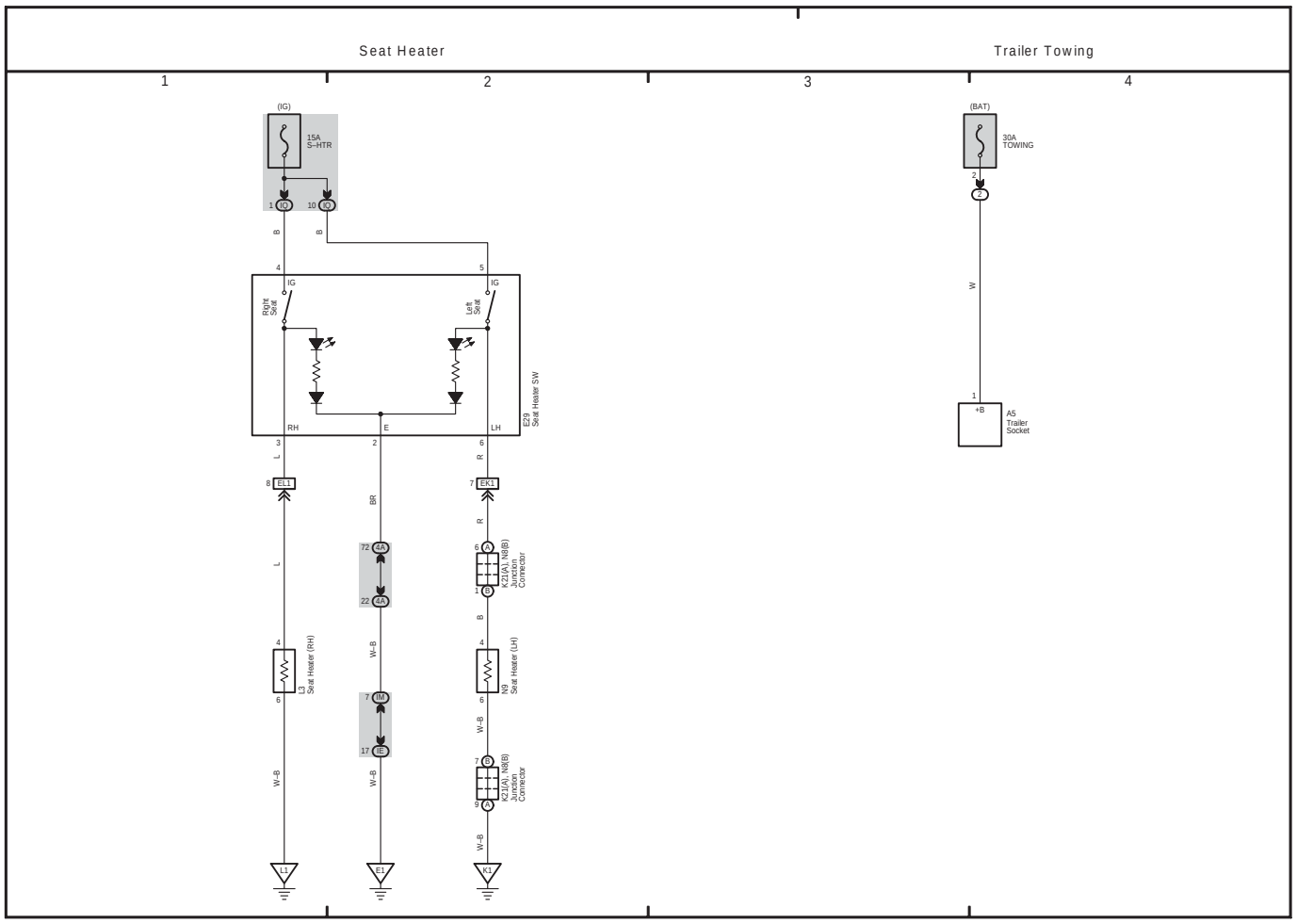
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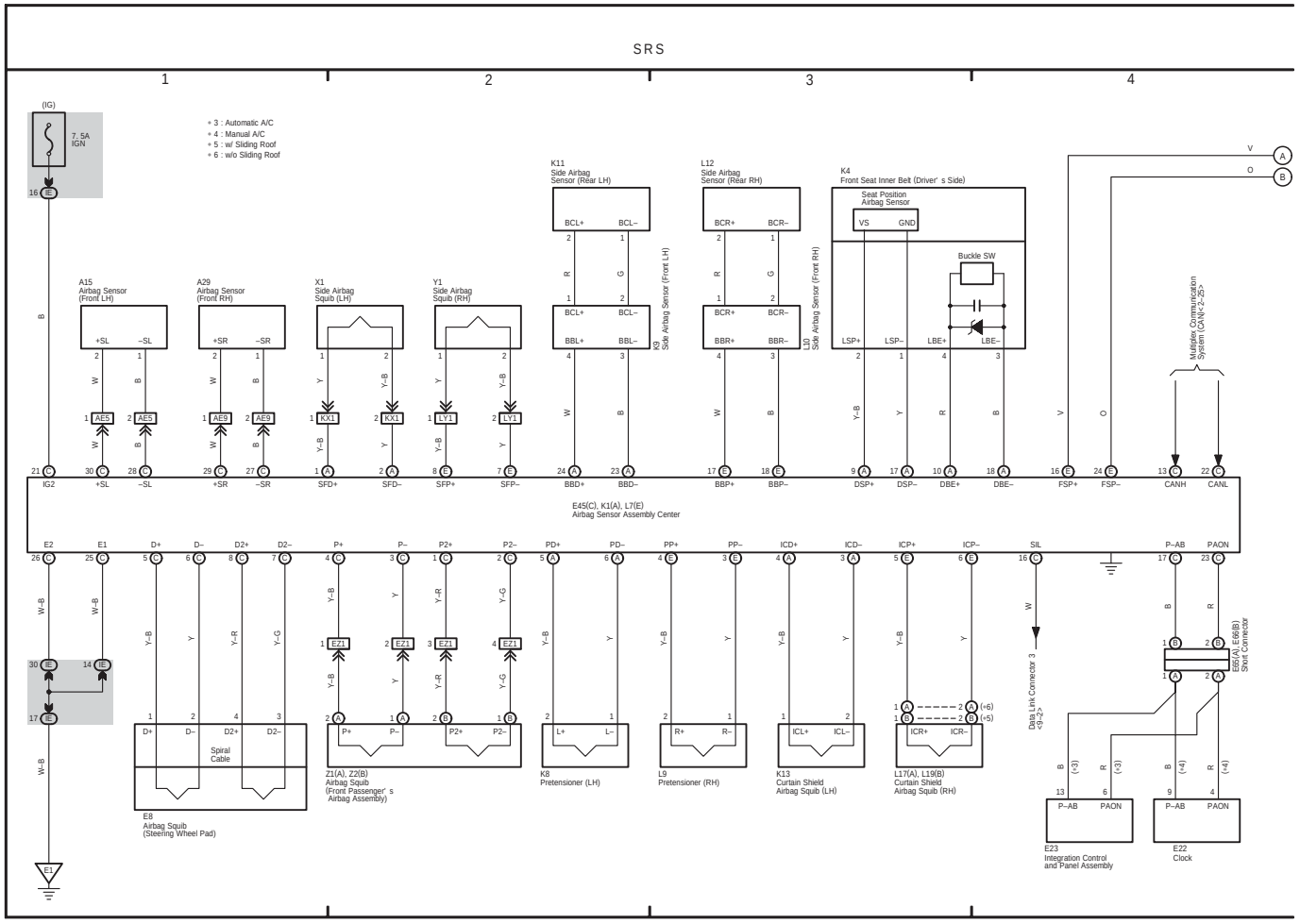


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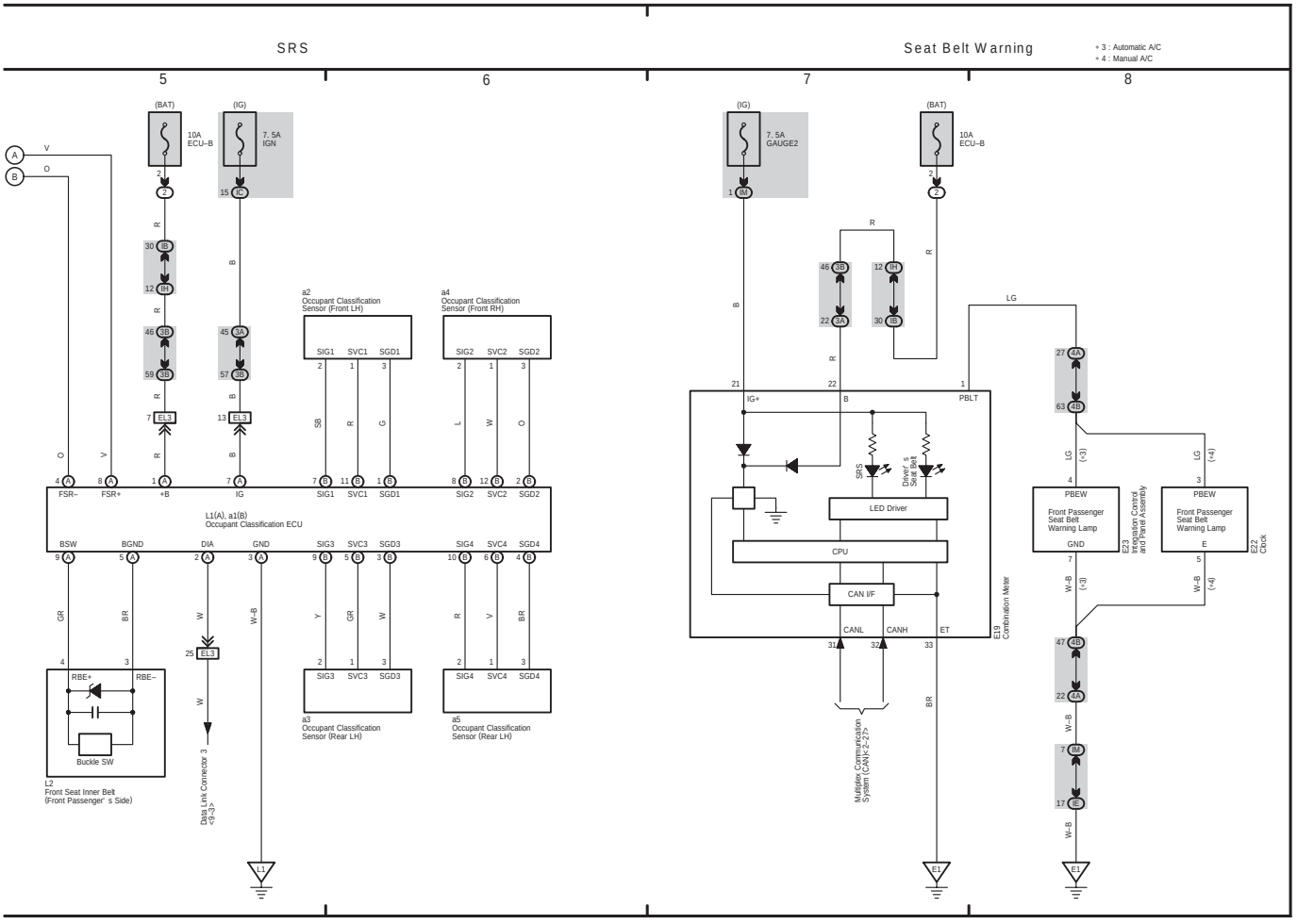
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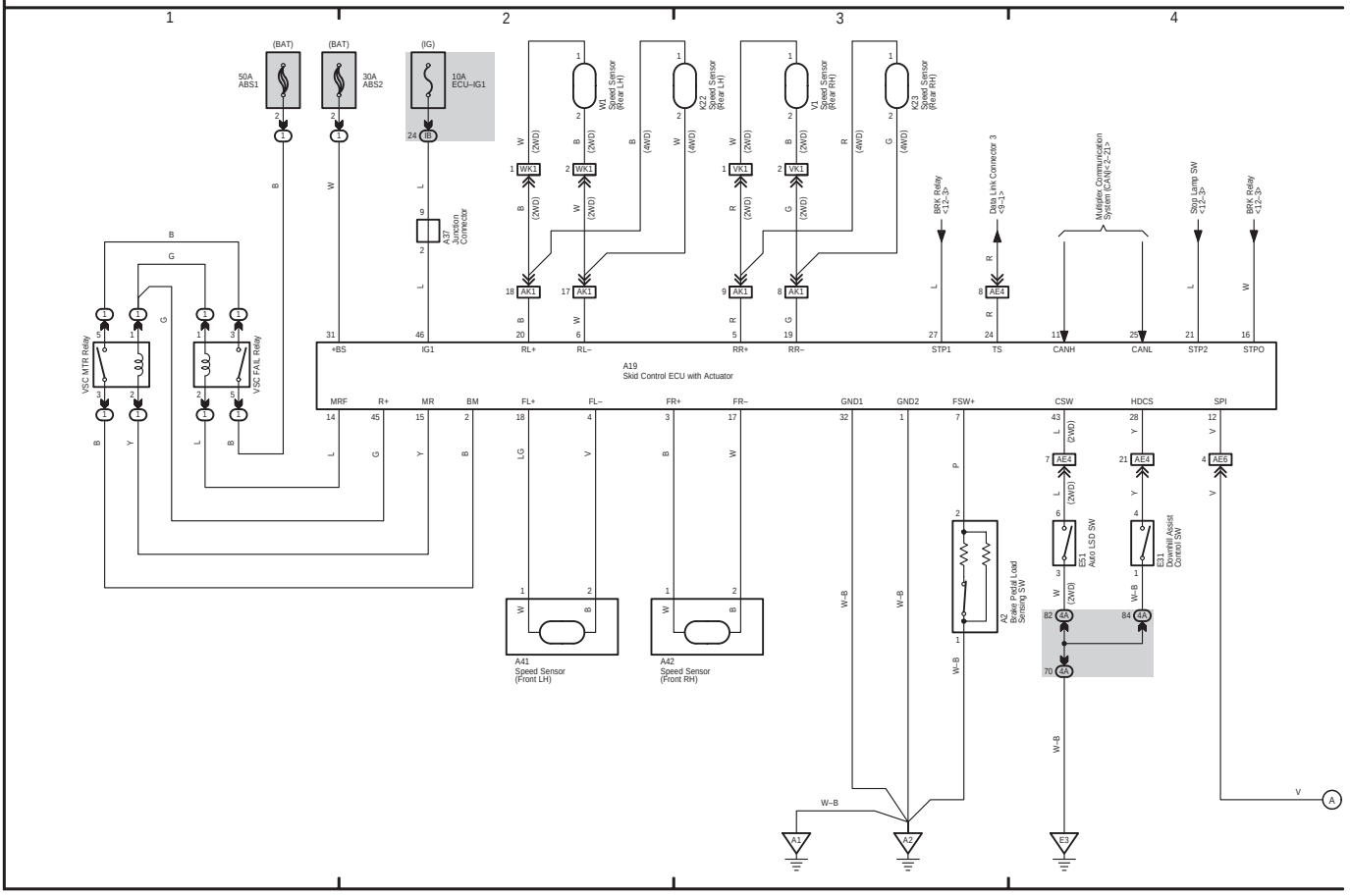


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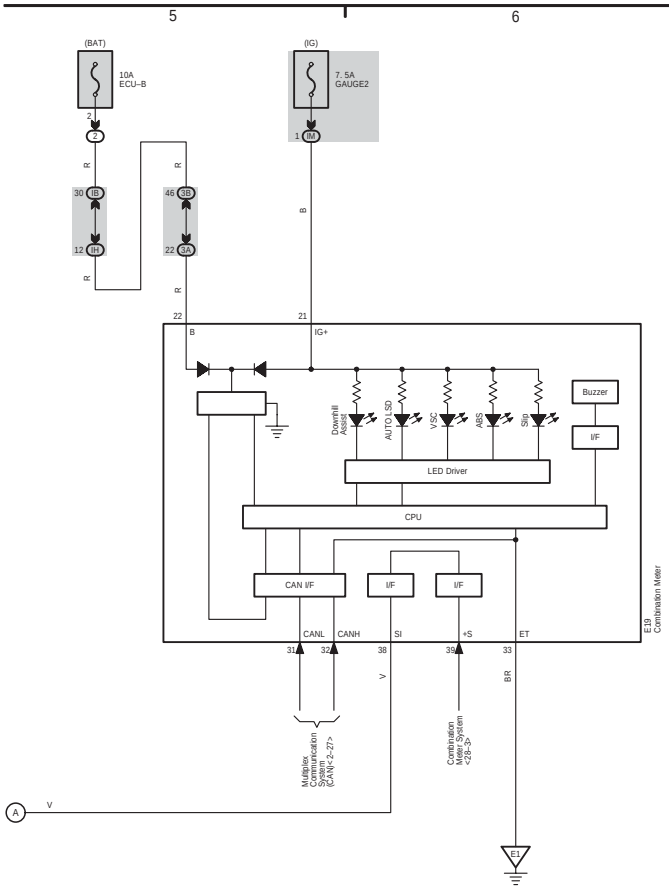
ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control



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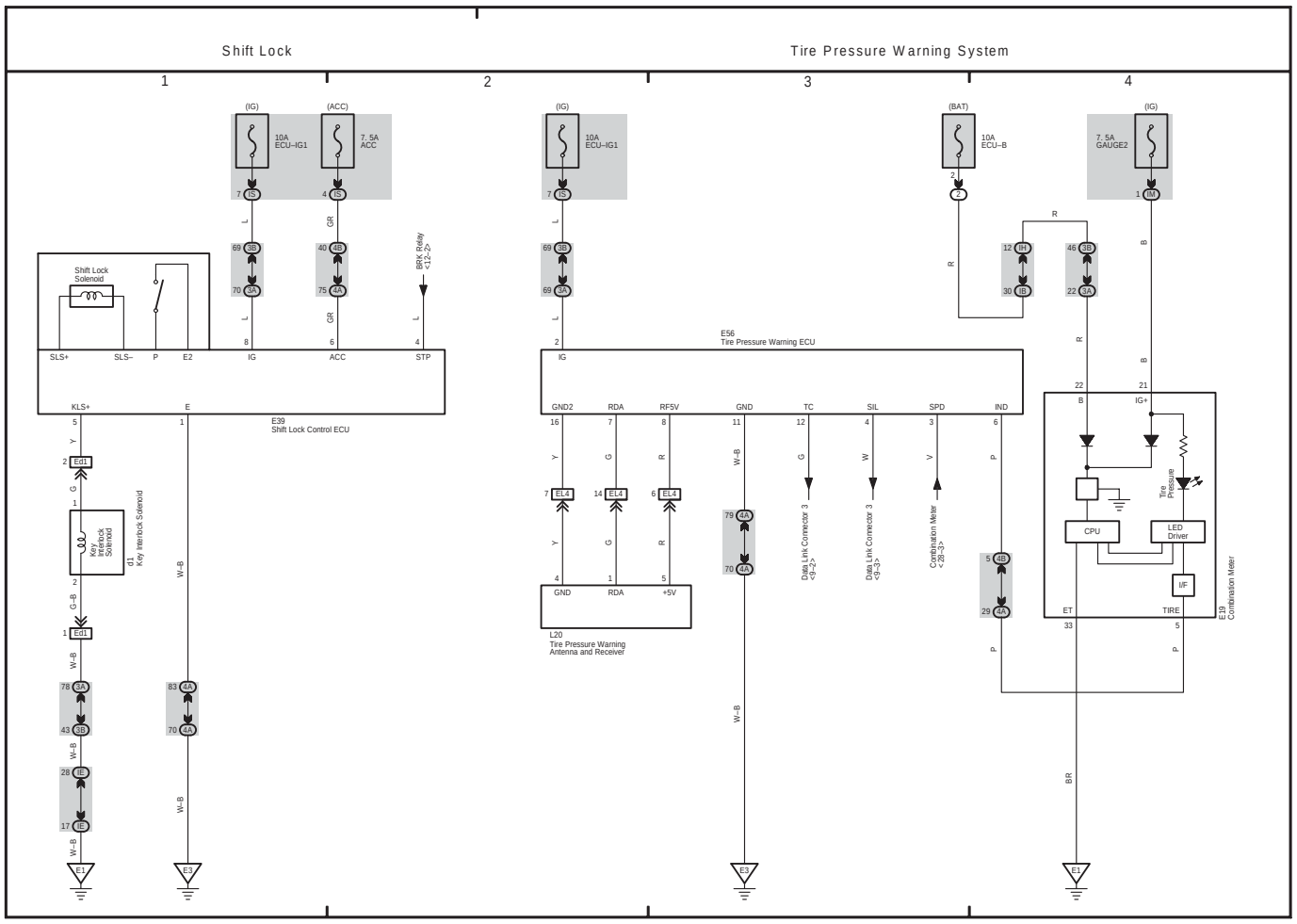
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ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control

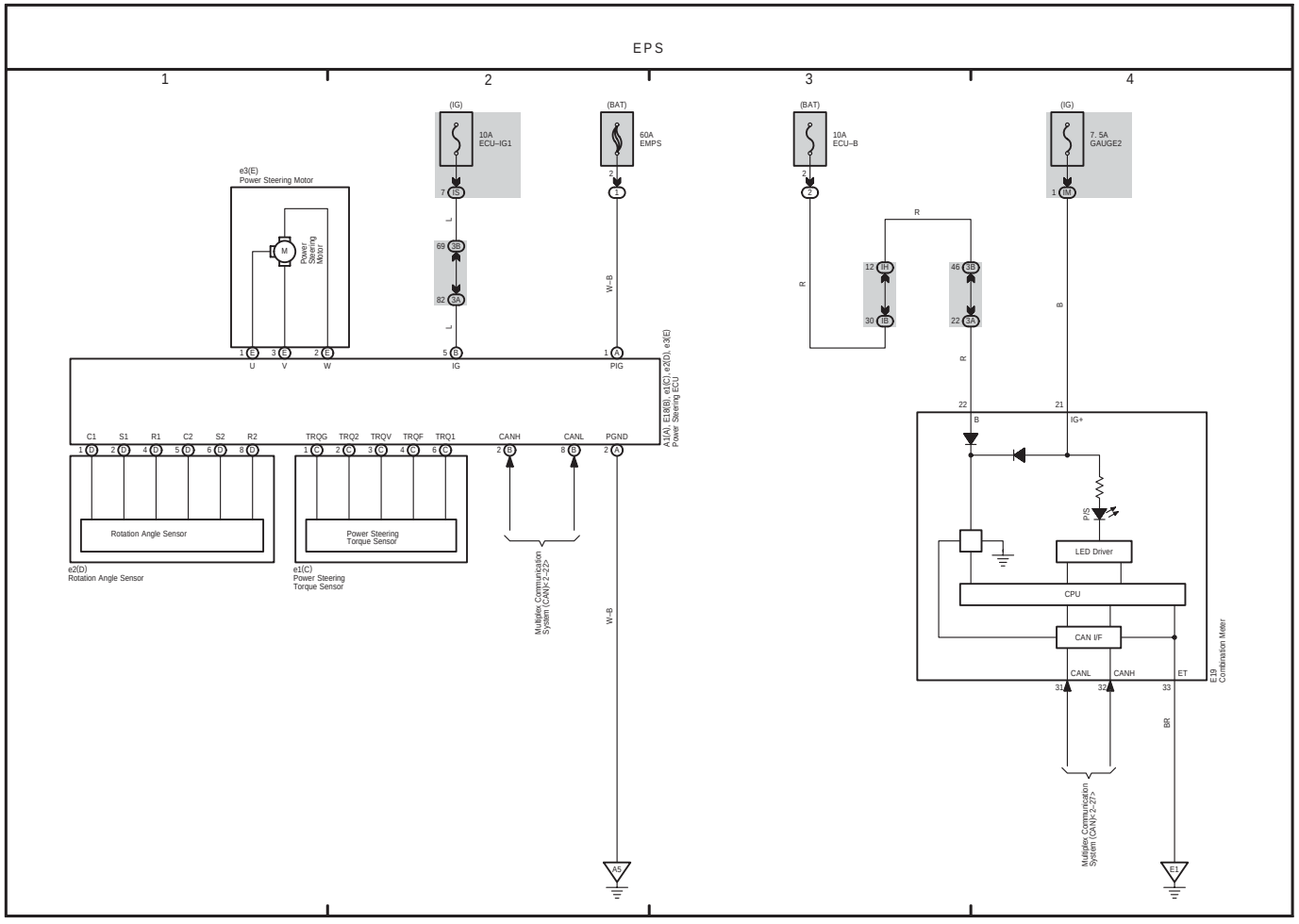


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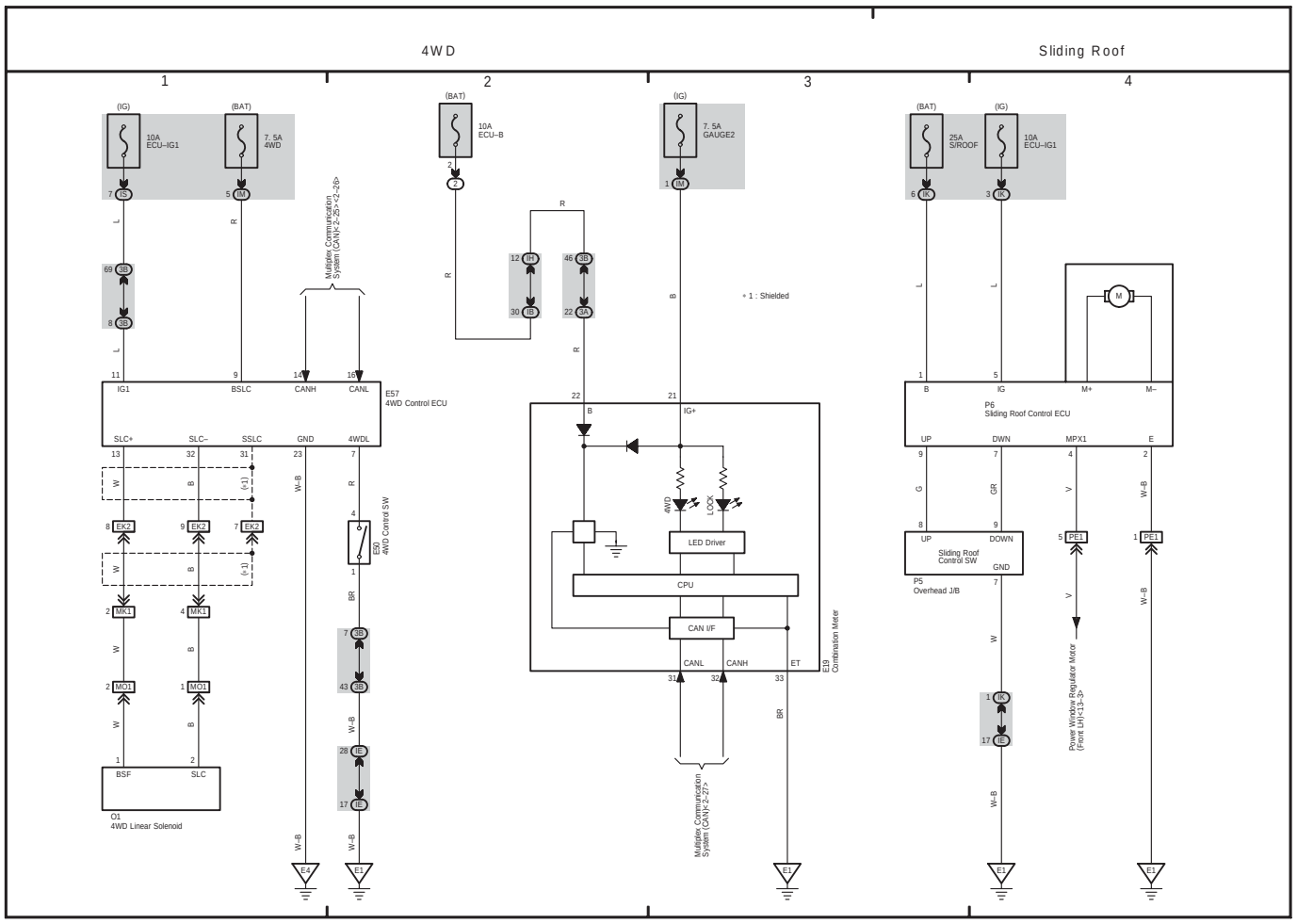


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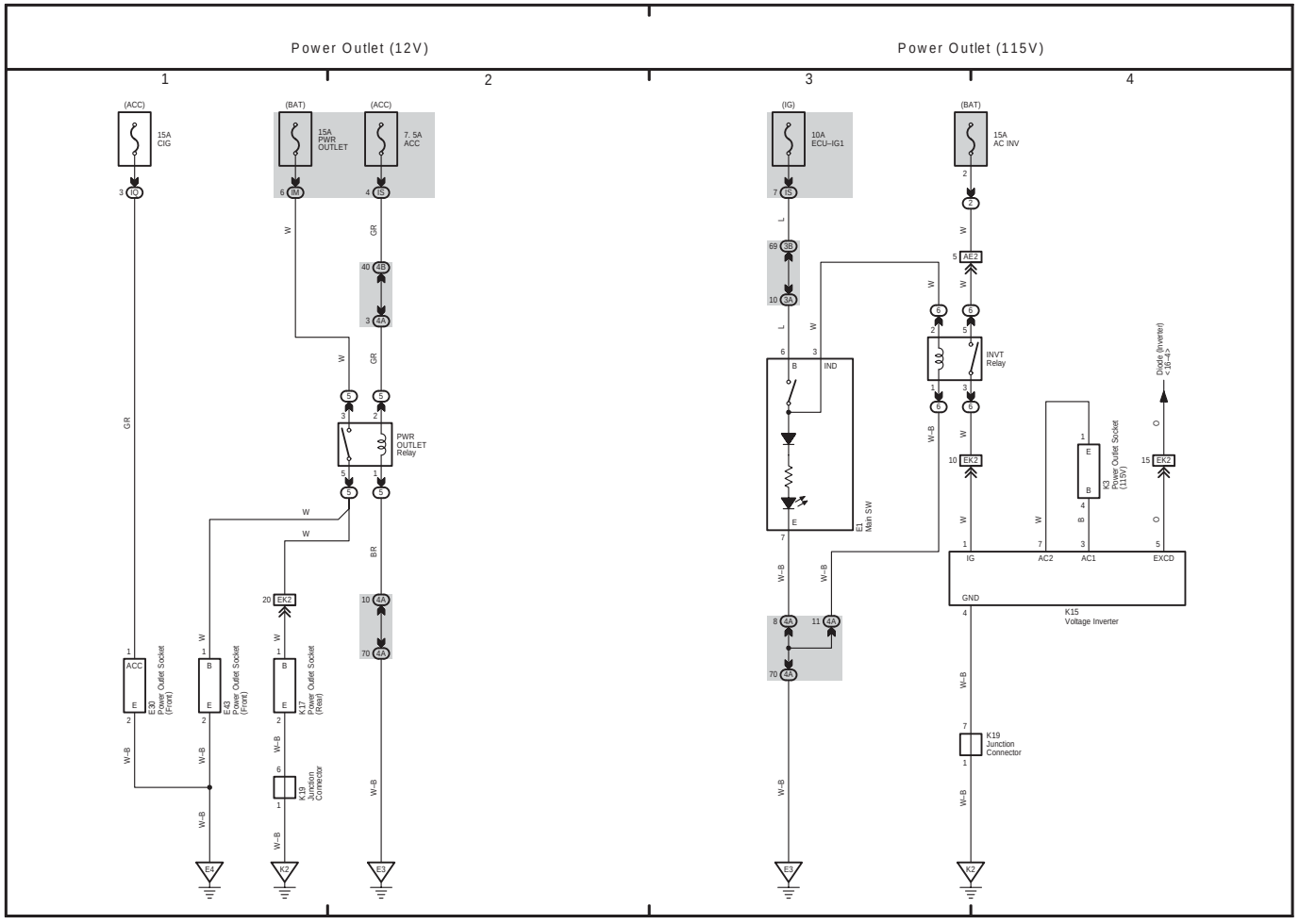
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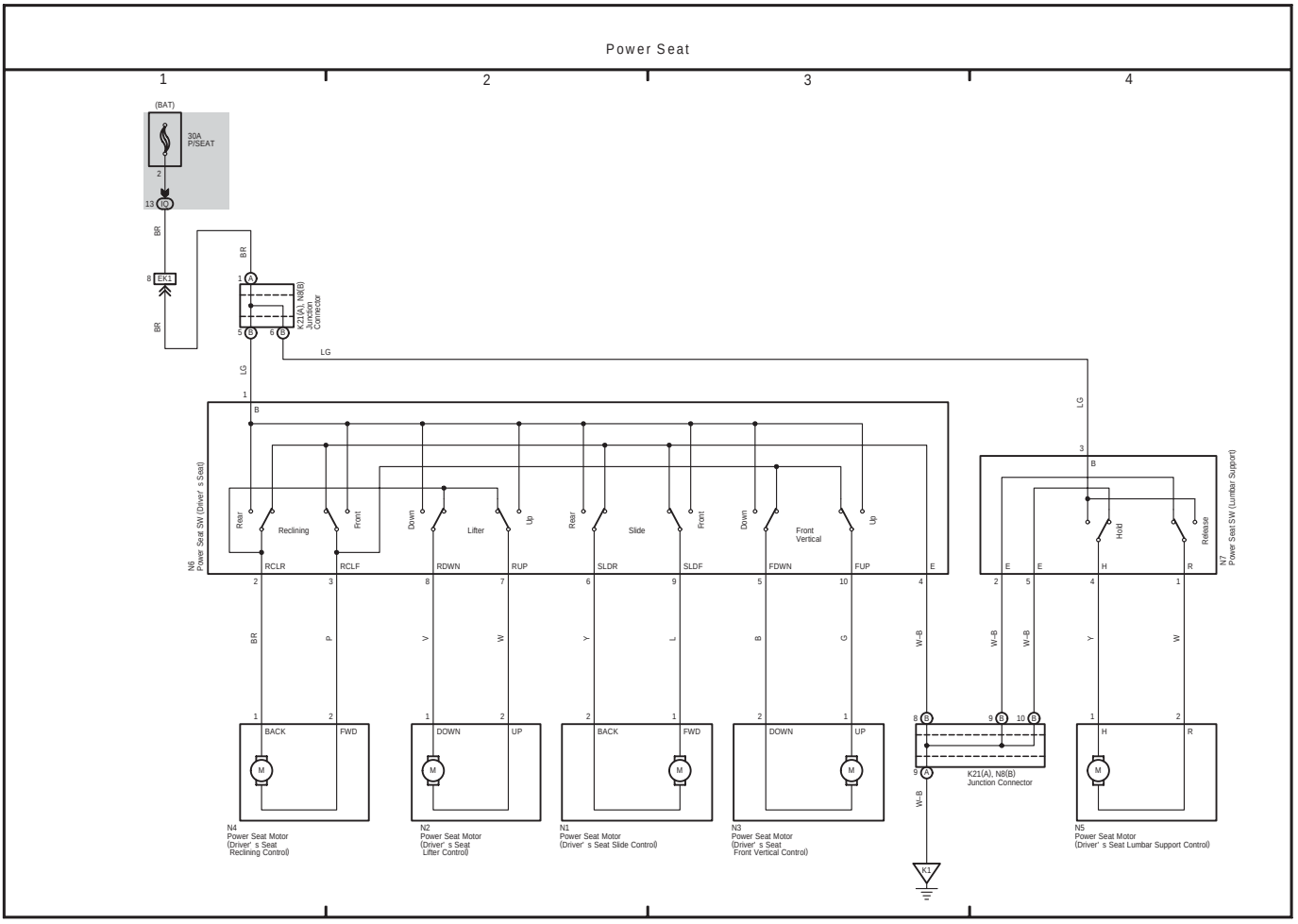
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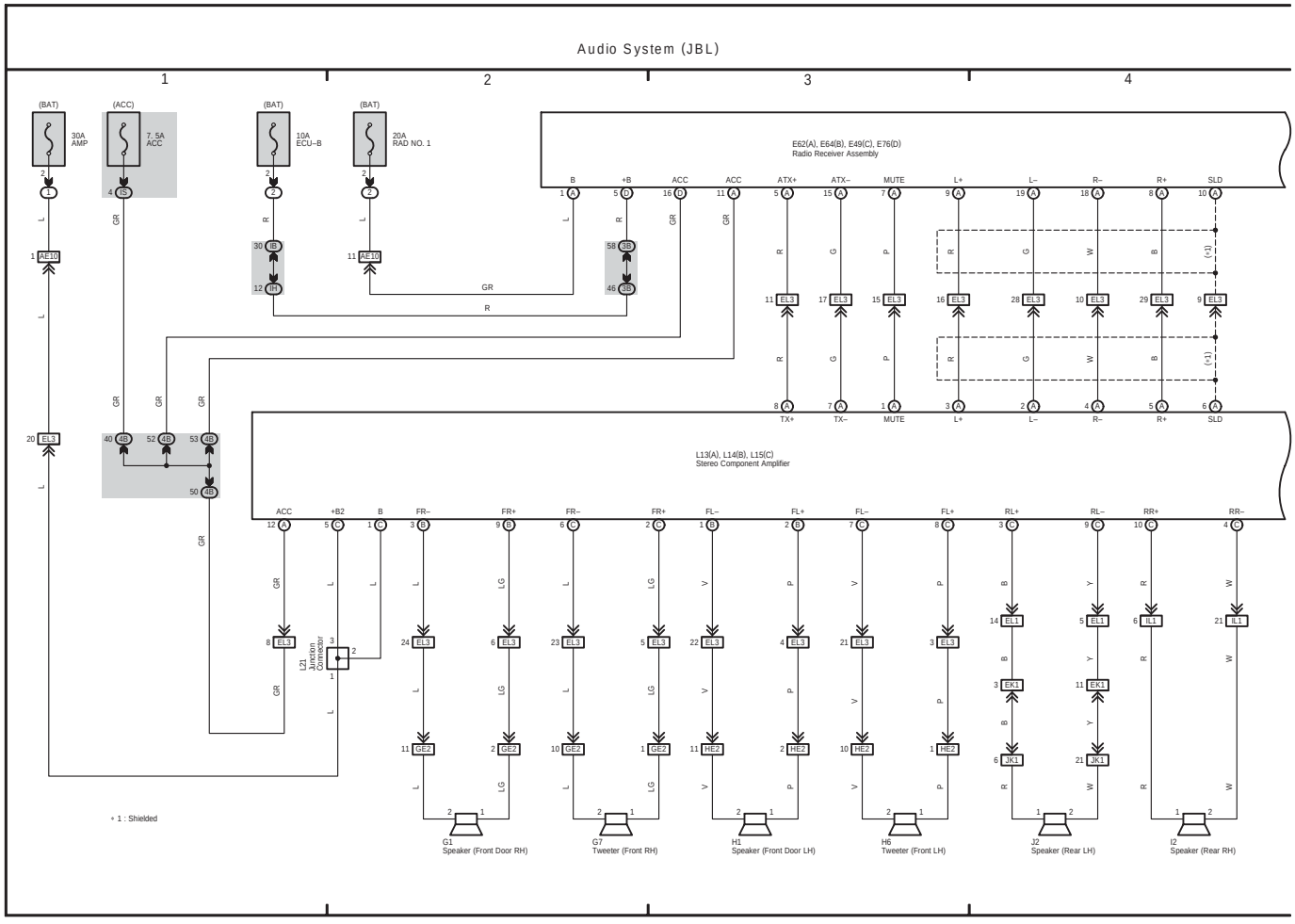


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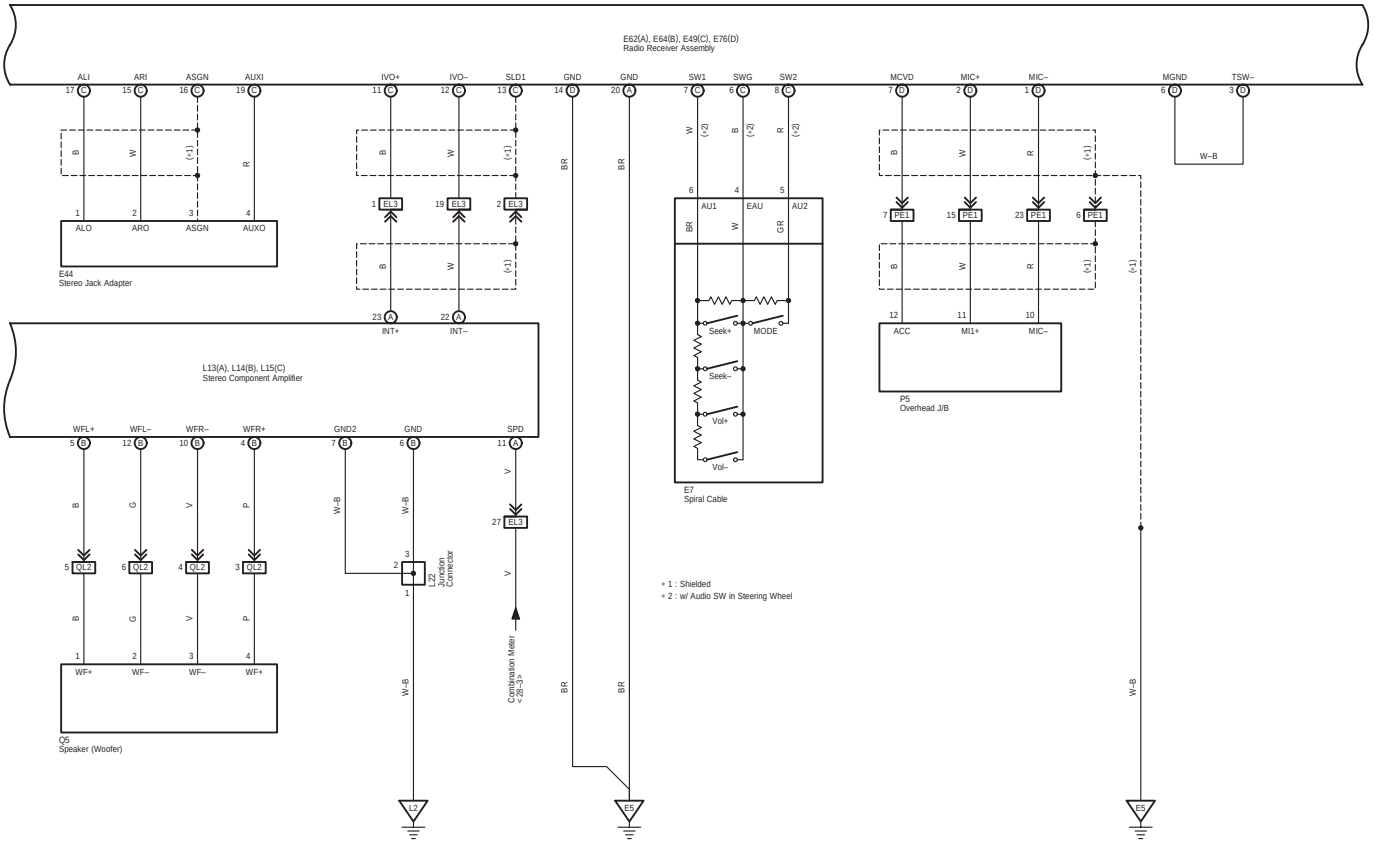
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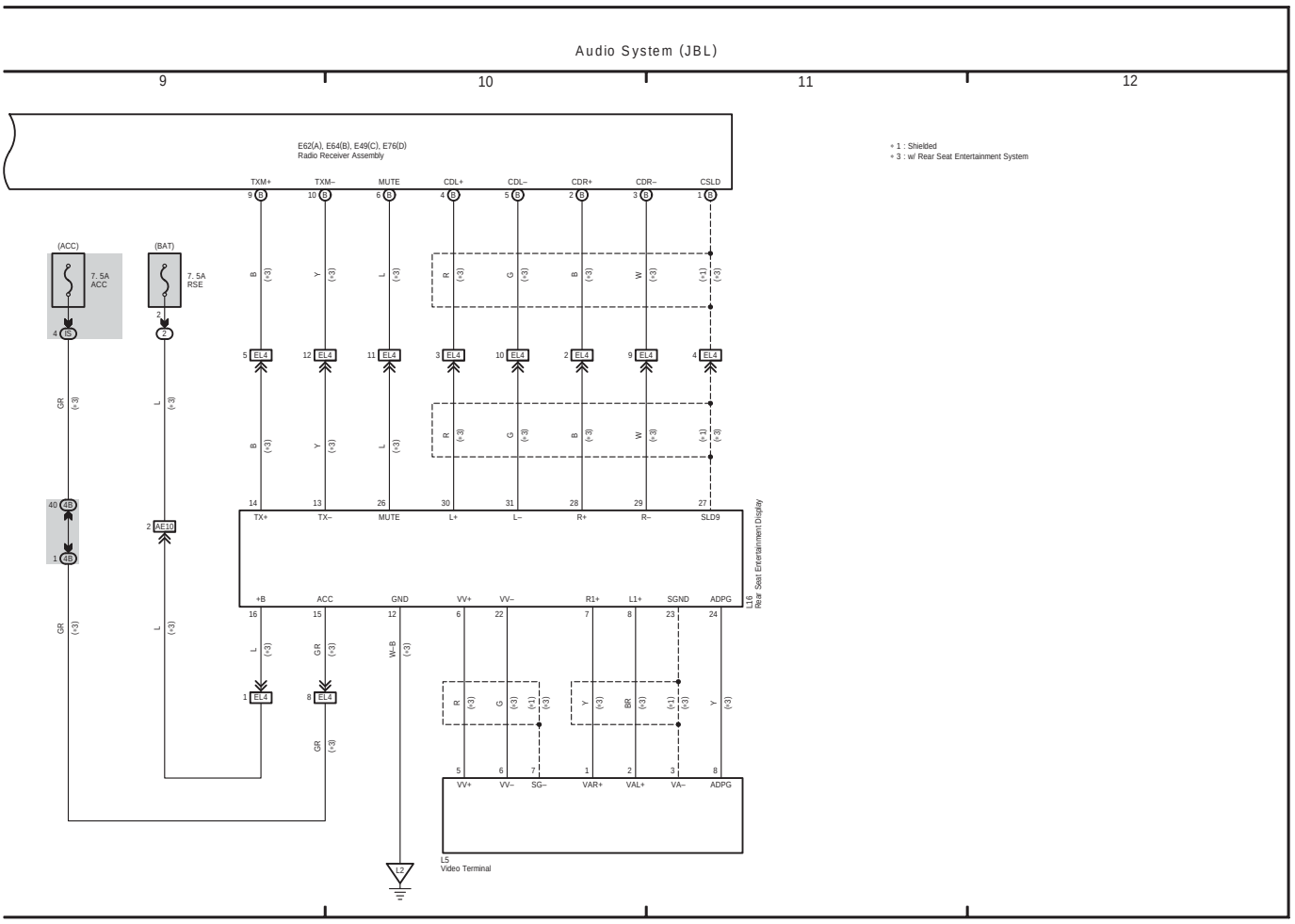
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Audio System (JBL)

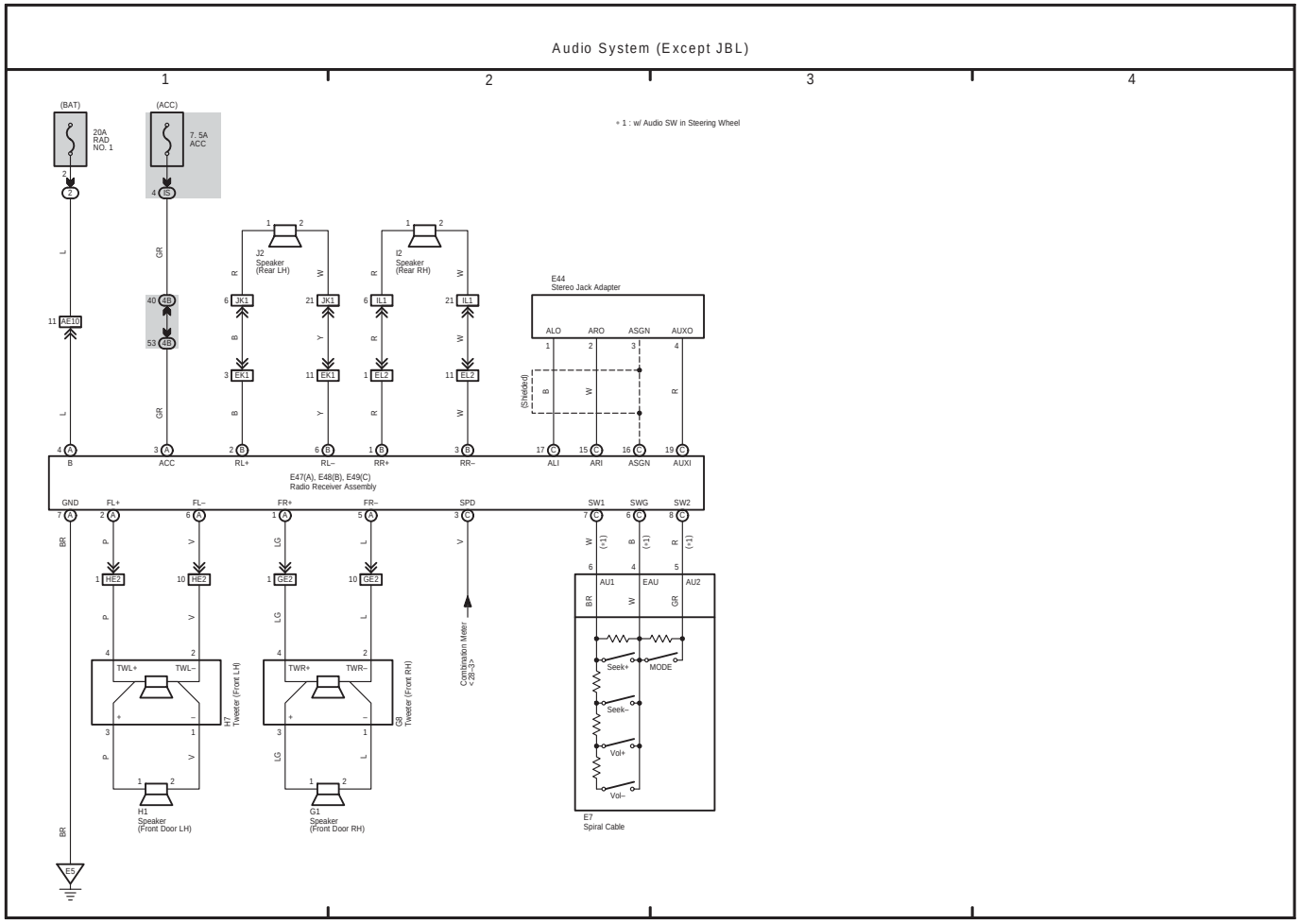


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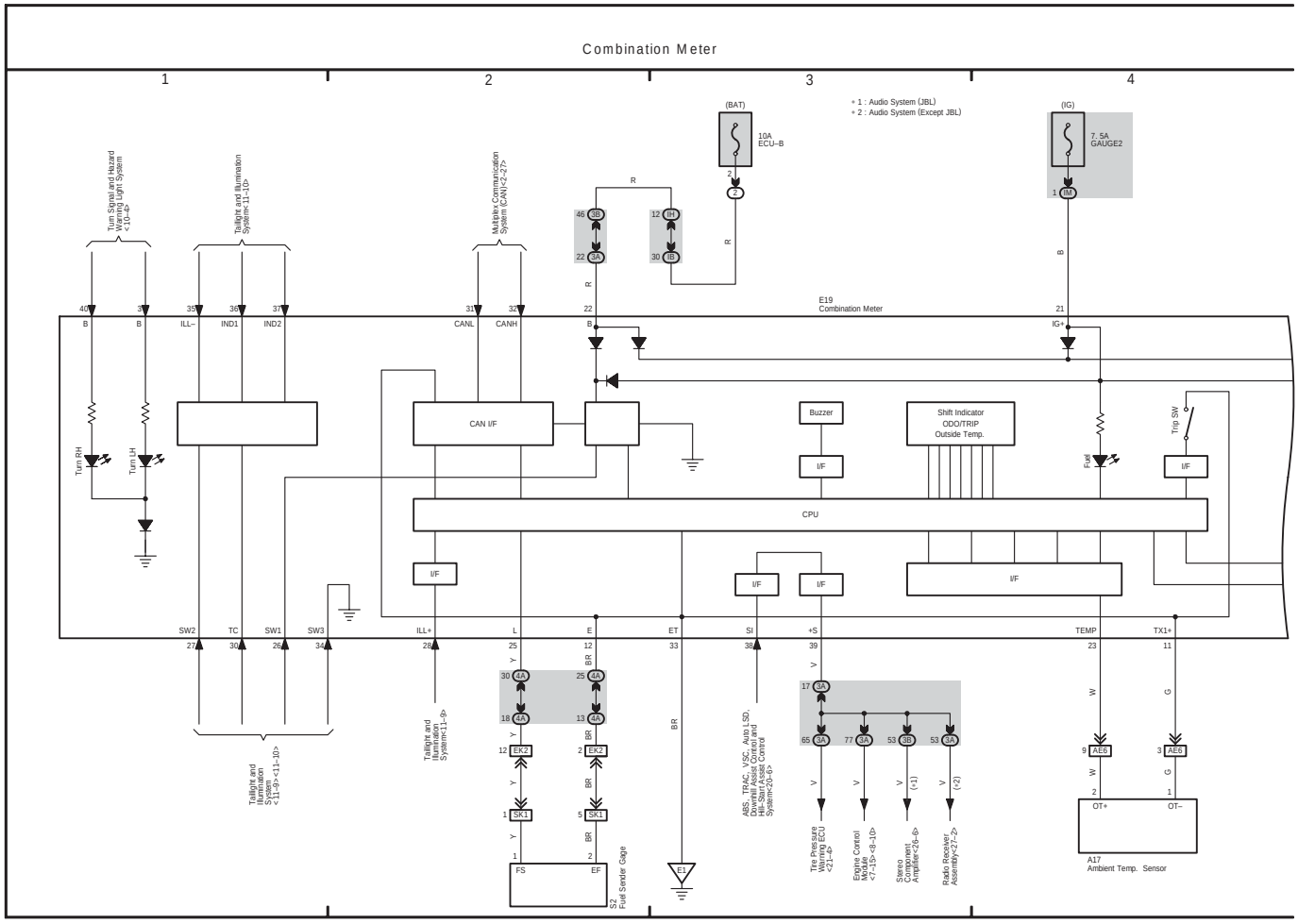
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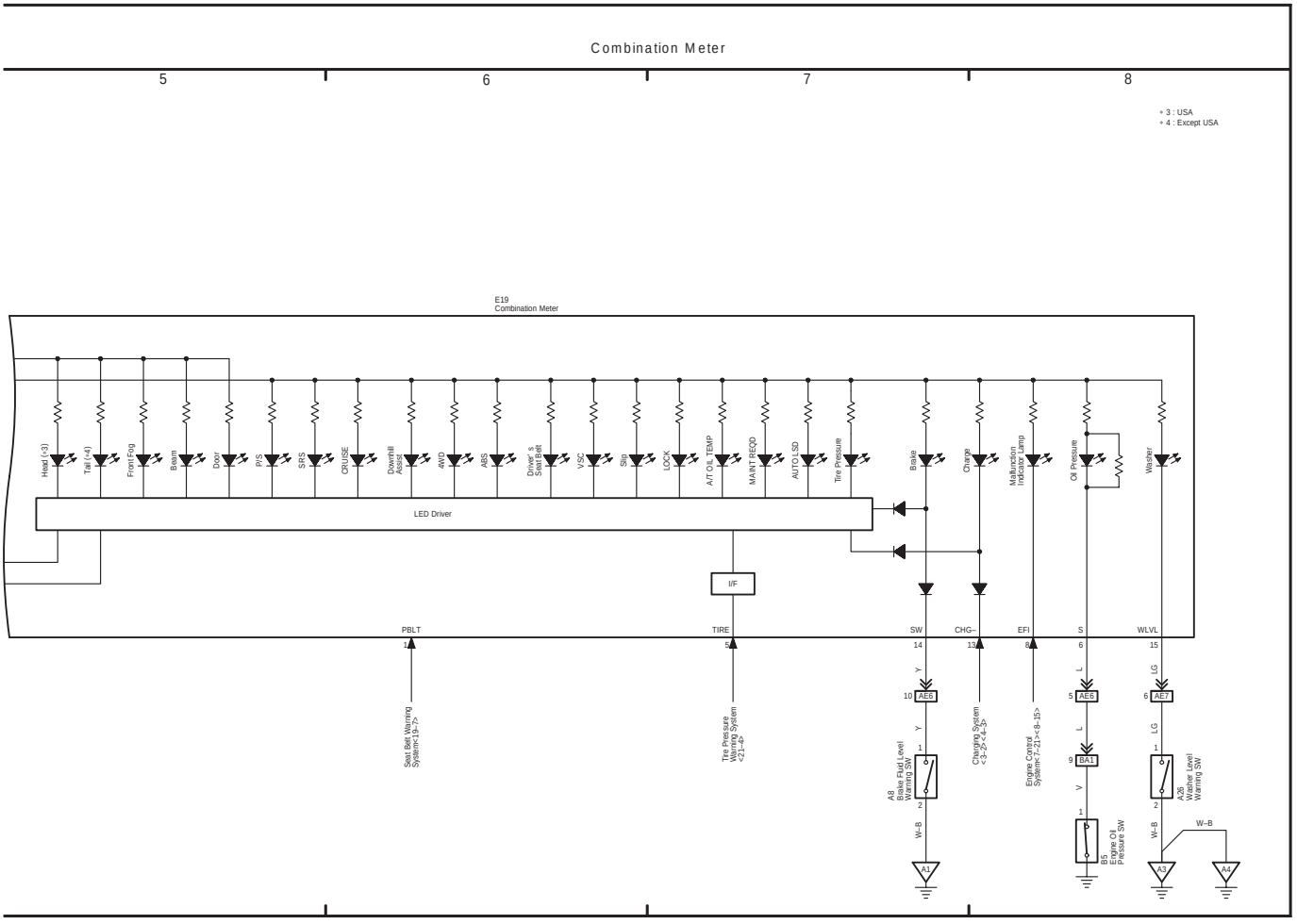
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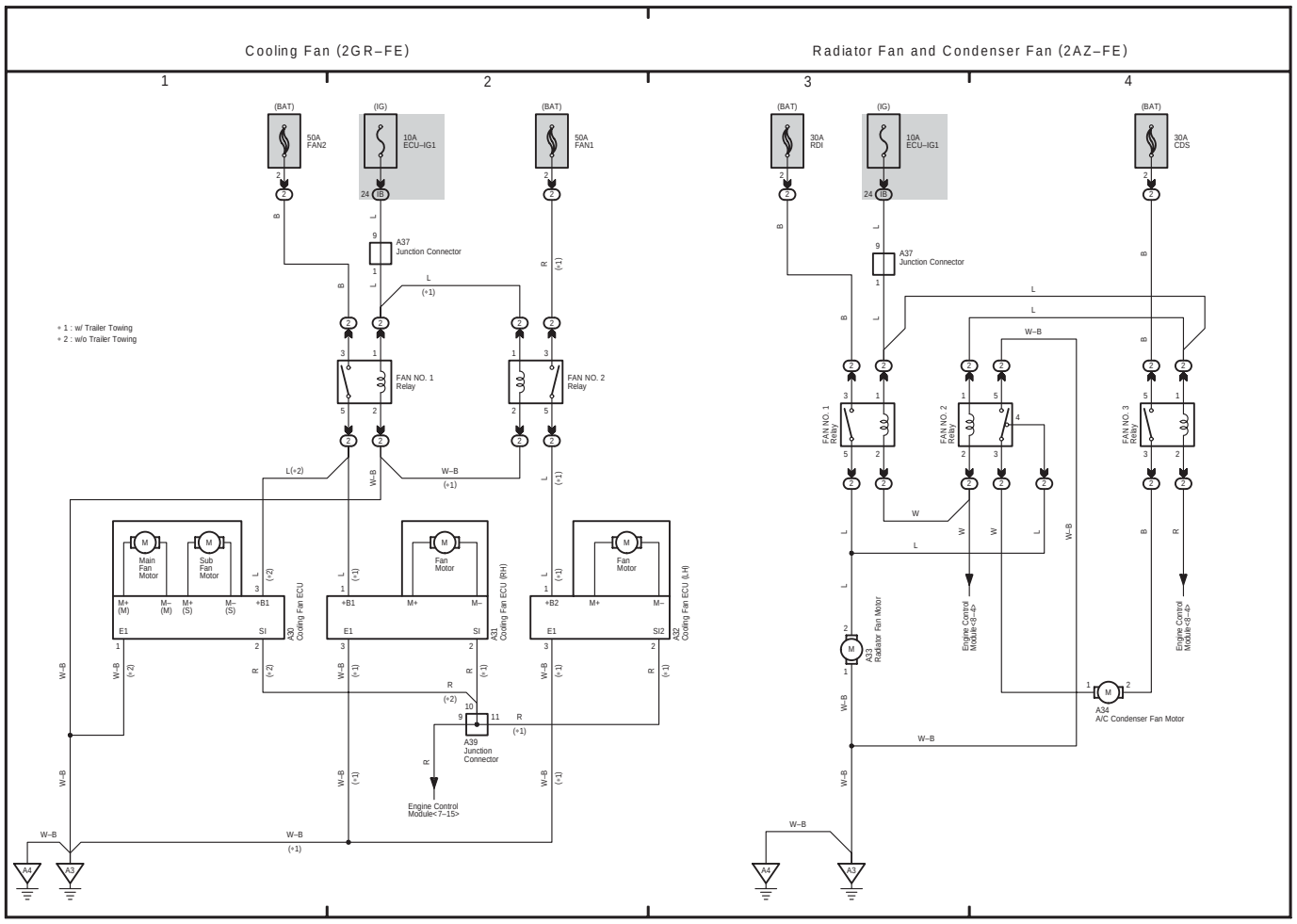
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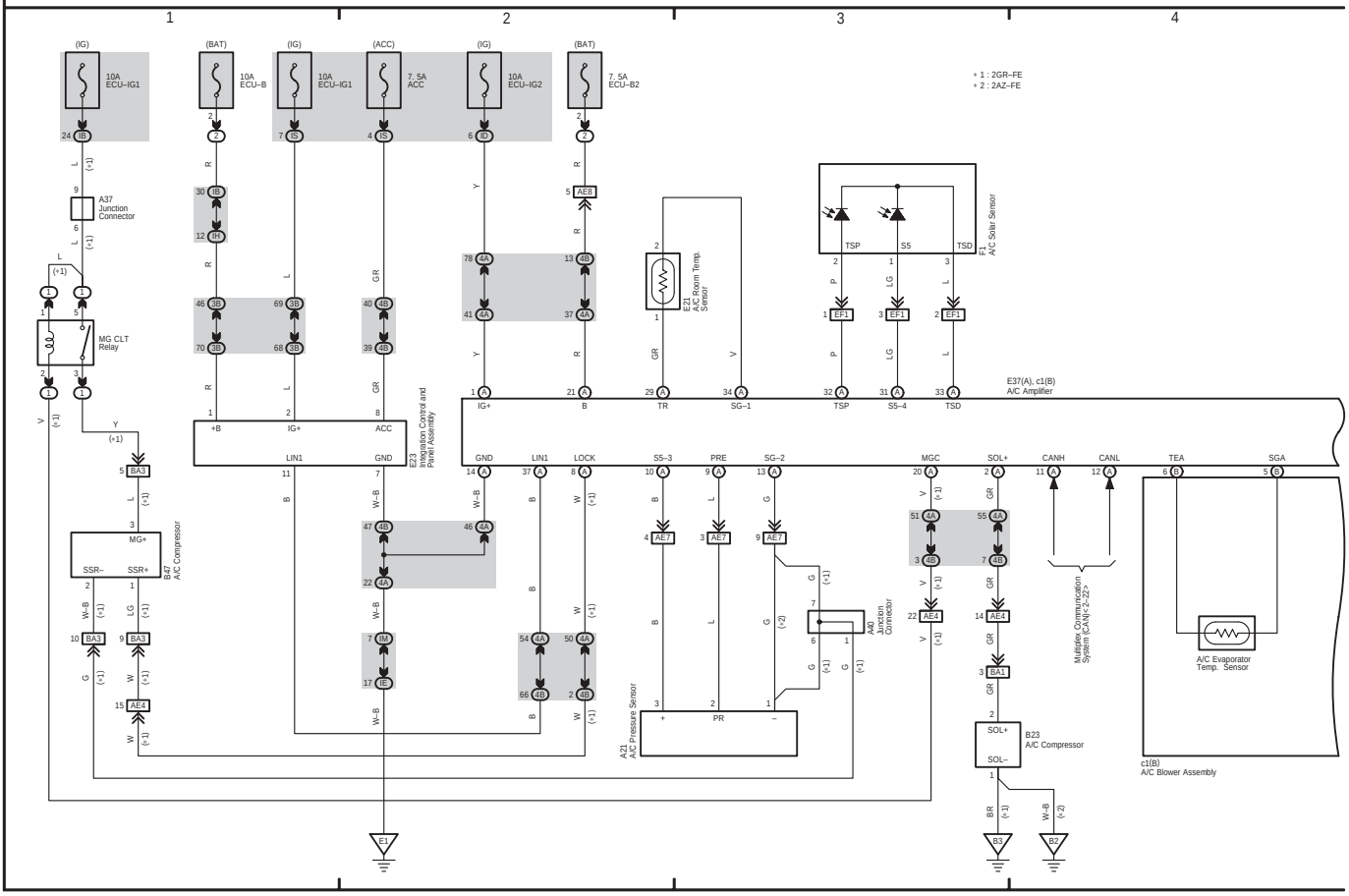
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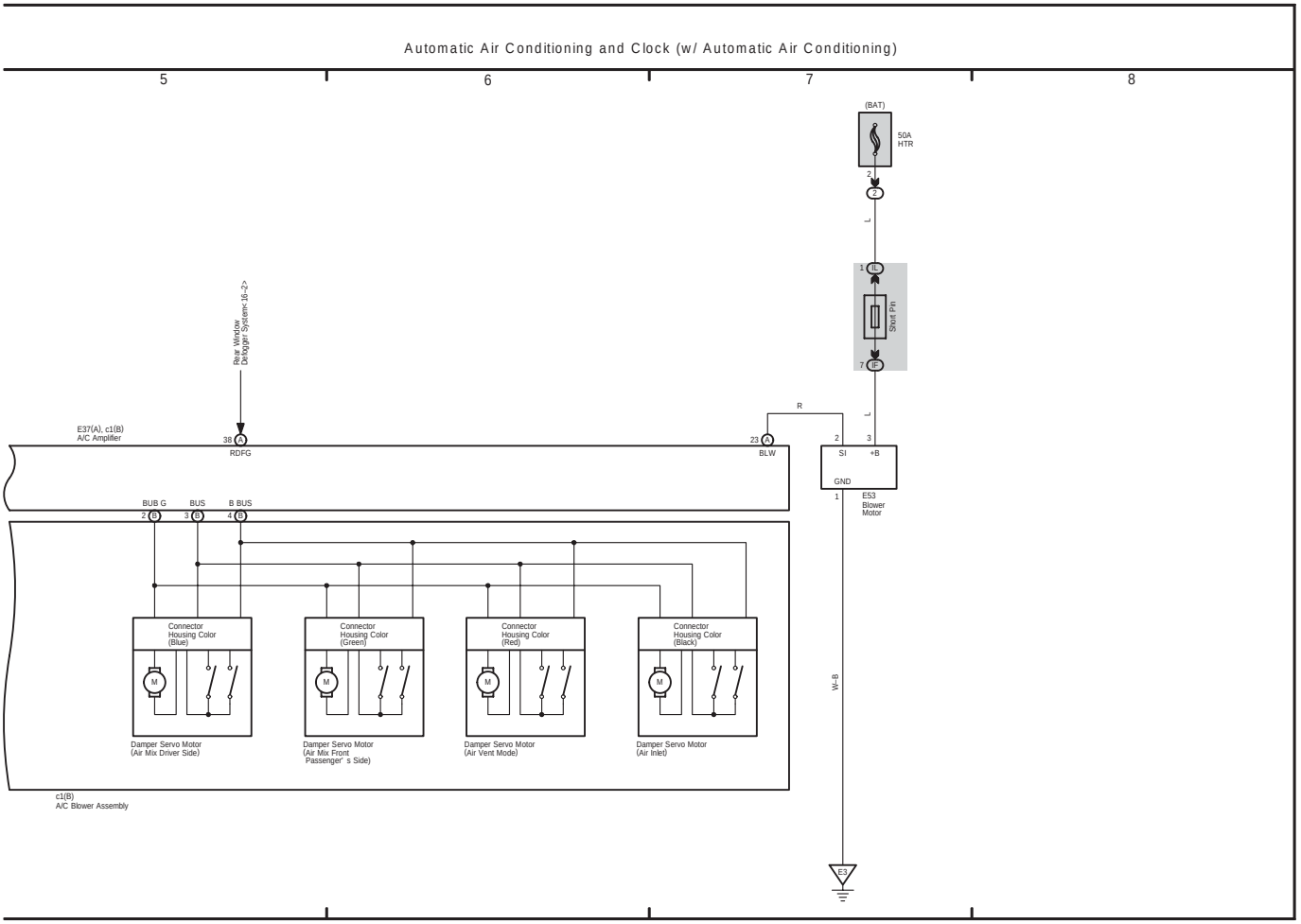
Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)



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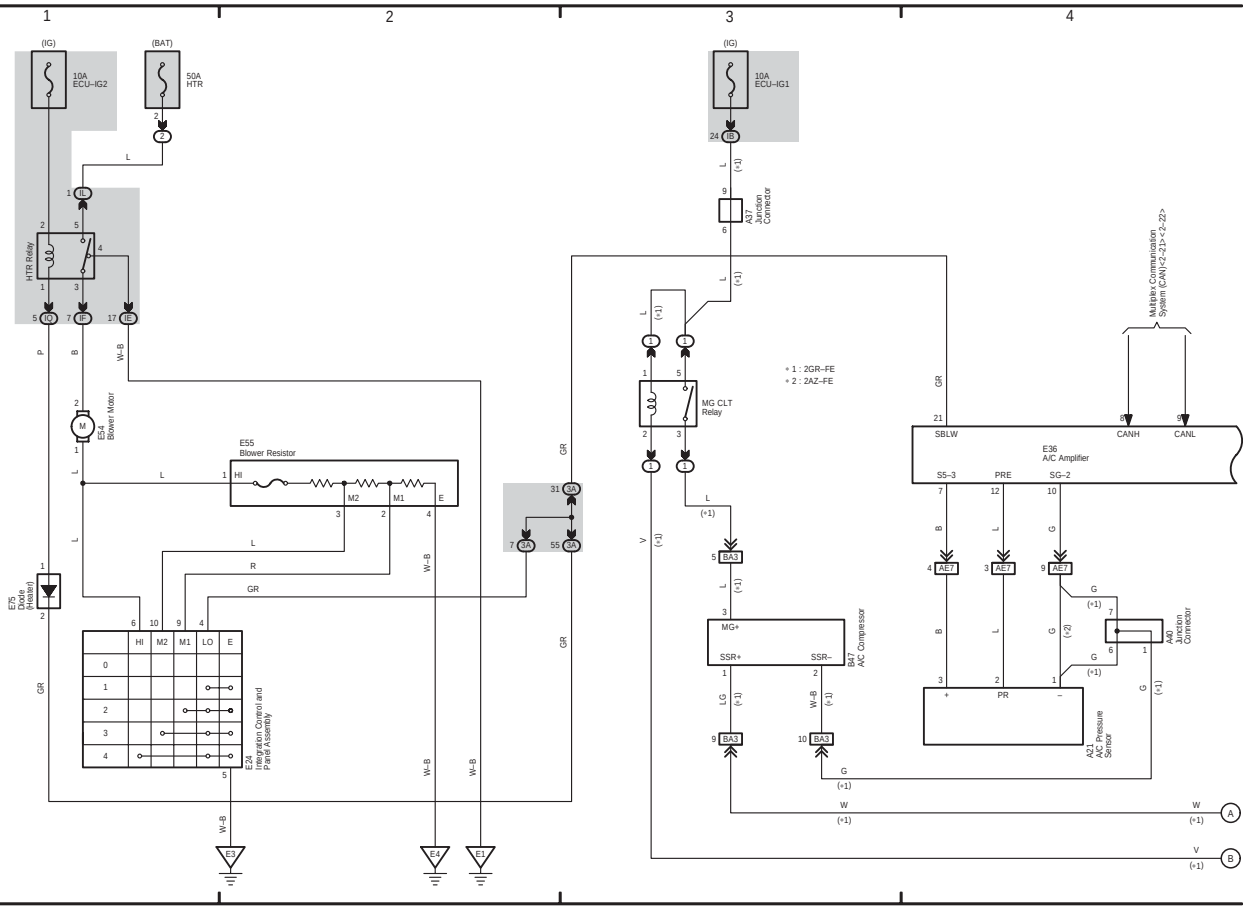
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Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)



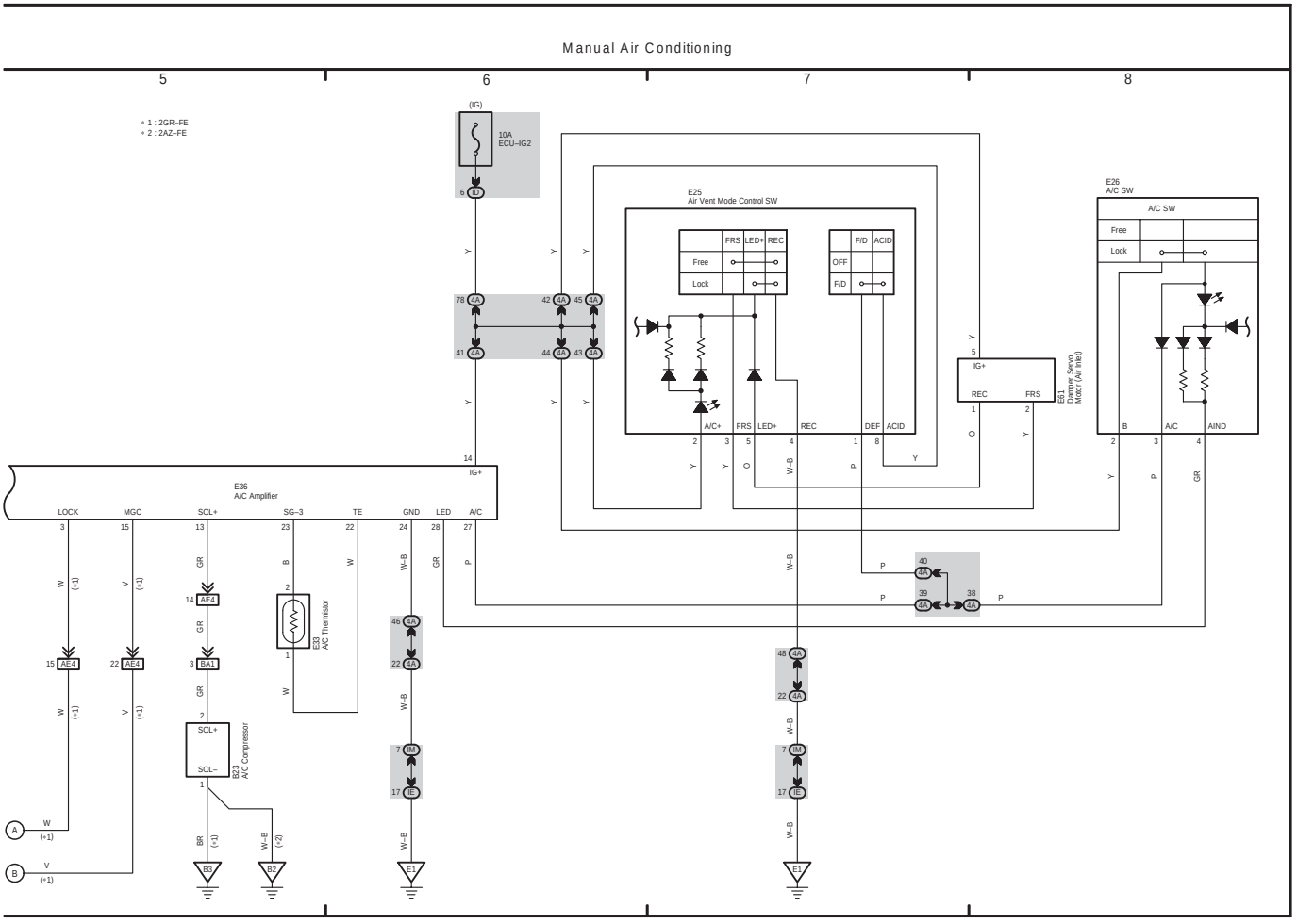
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Manual Air Conditioning



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