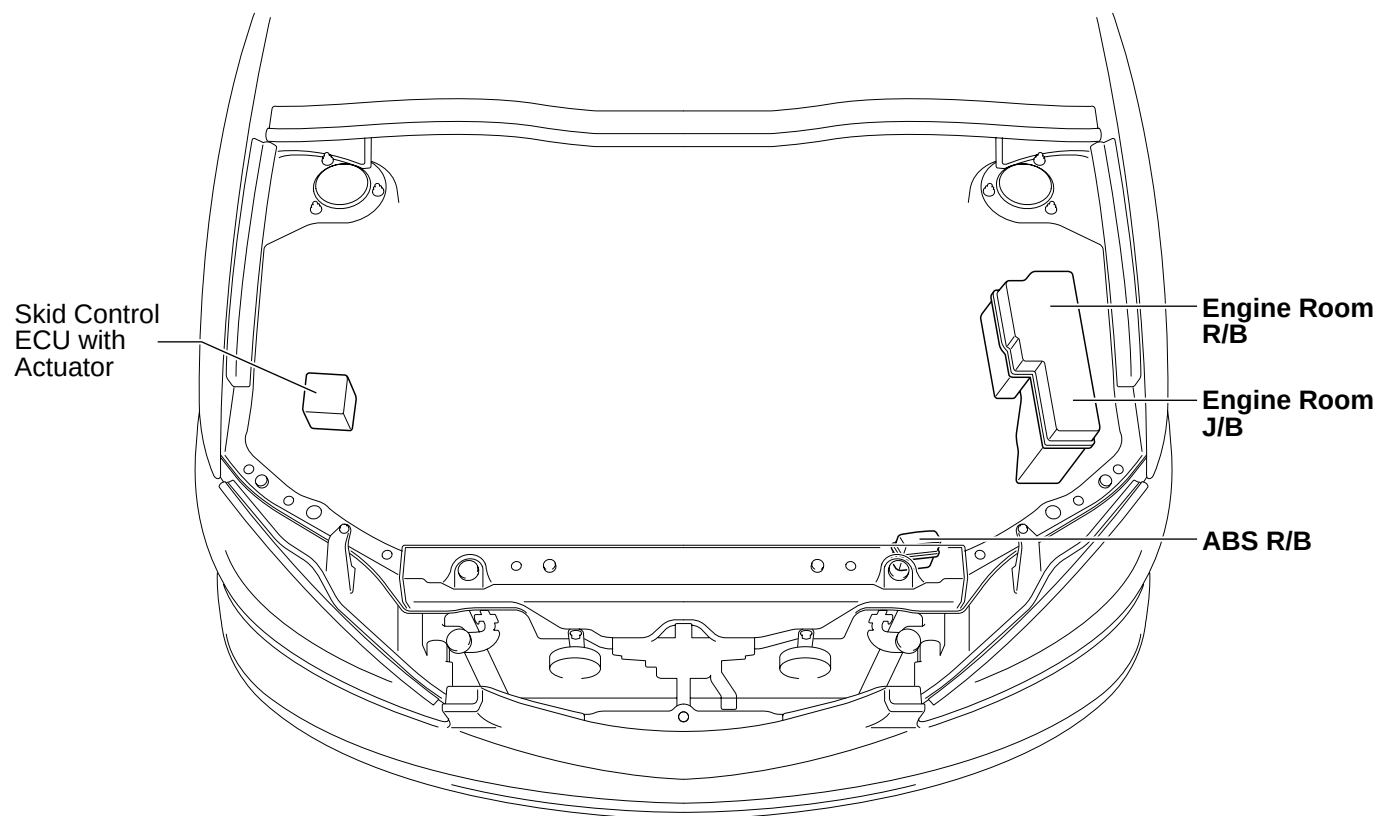
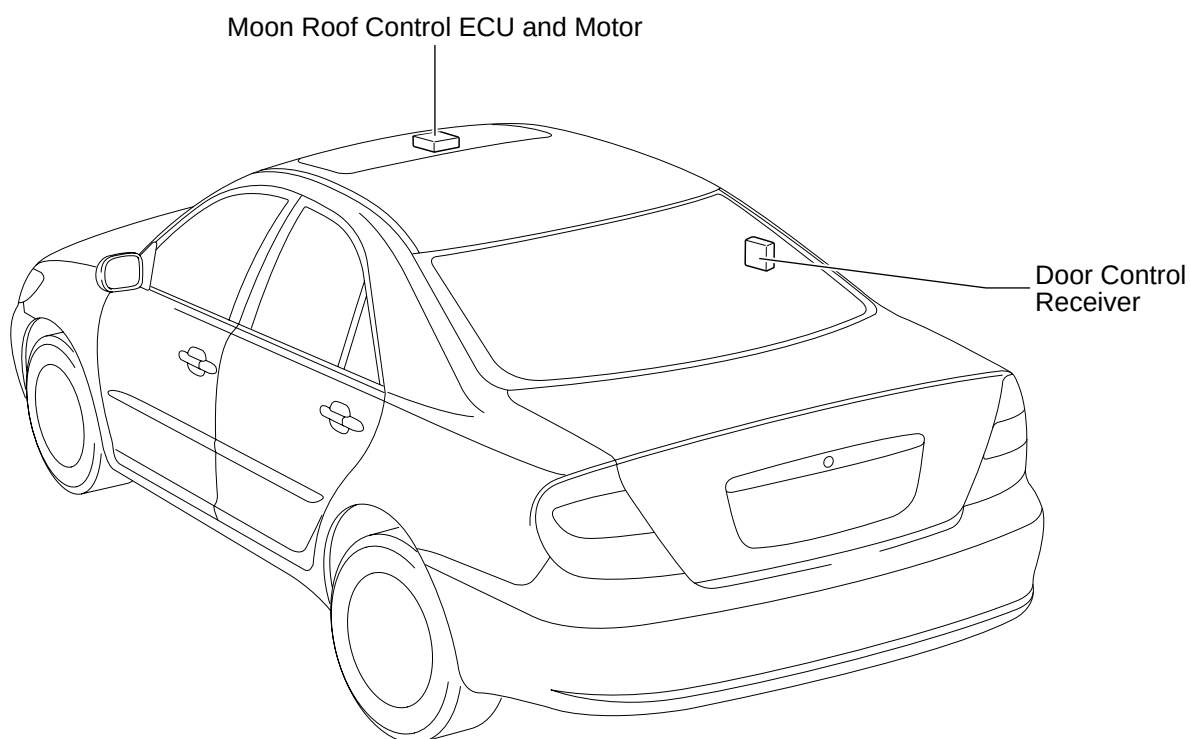


F RELAY LOCATIONS

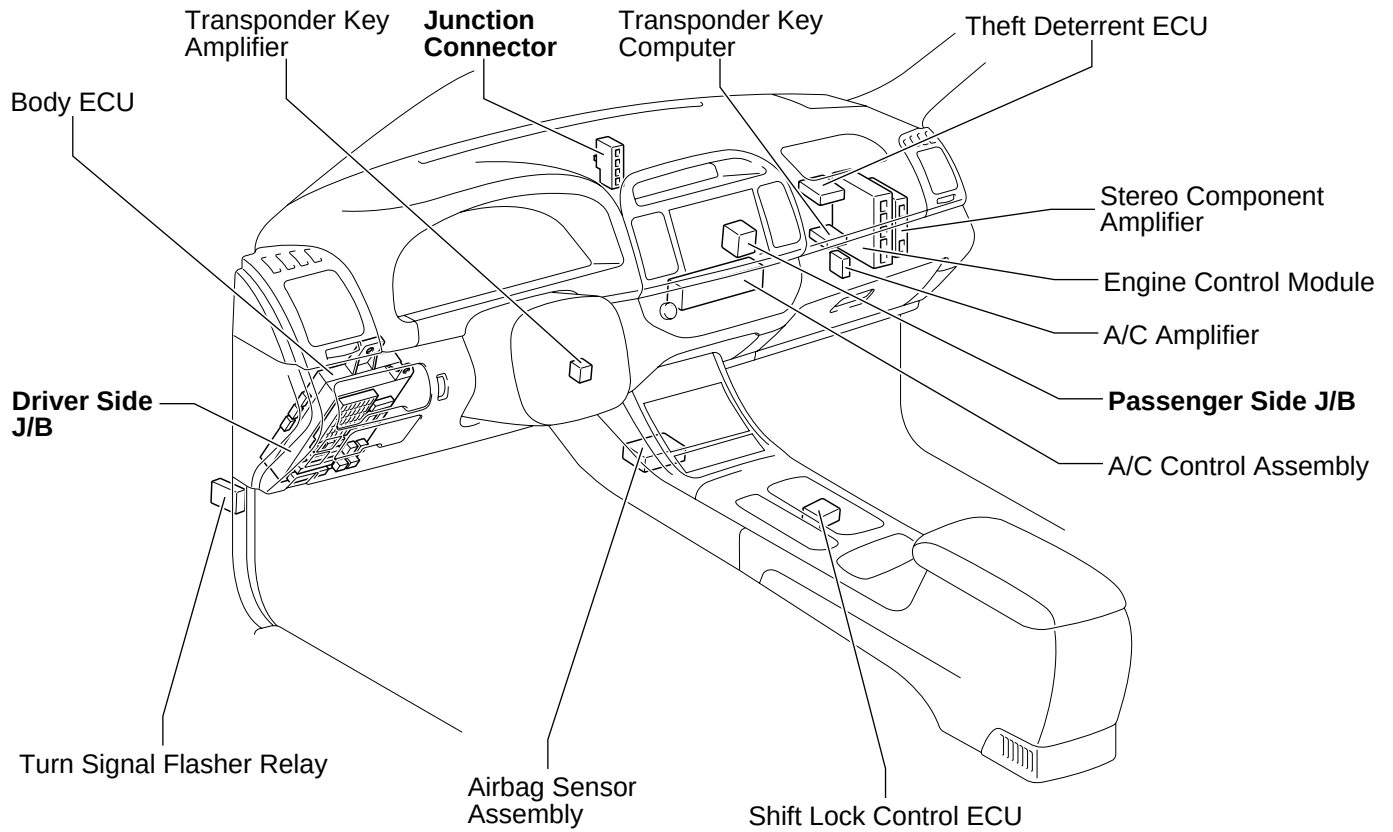
[Engine Compartment]



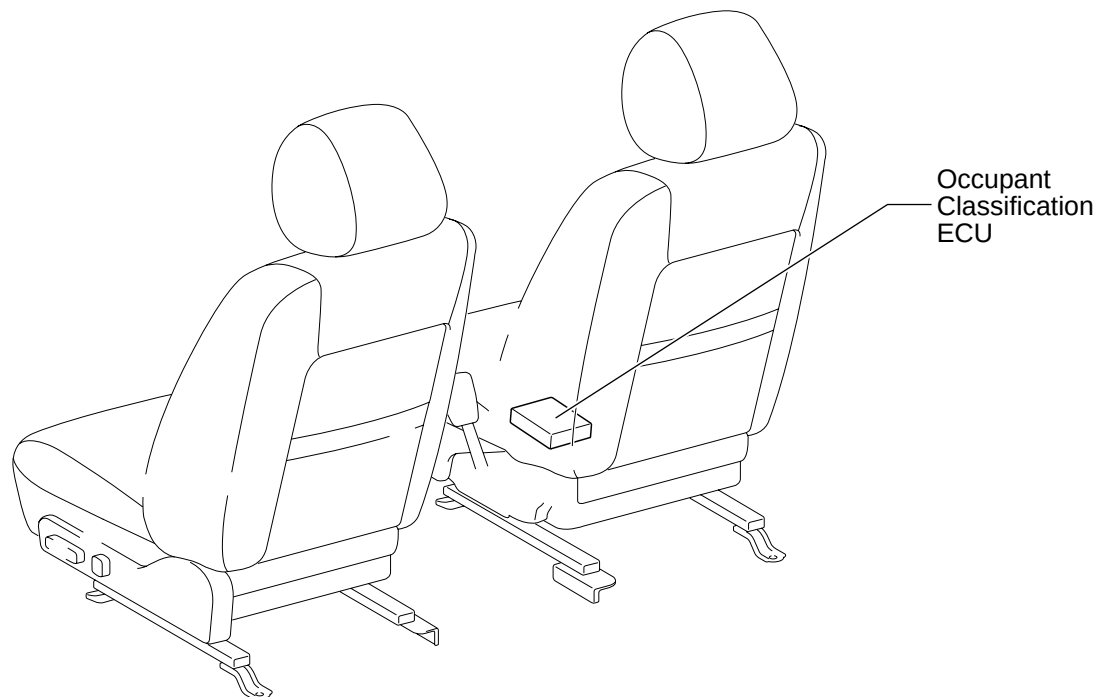
[Body]



[Instrument Panel]

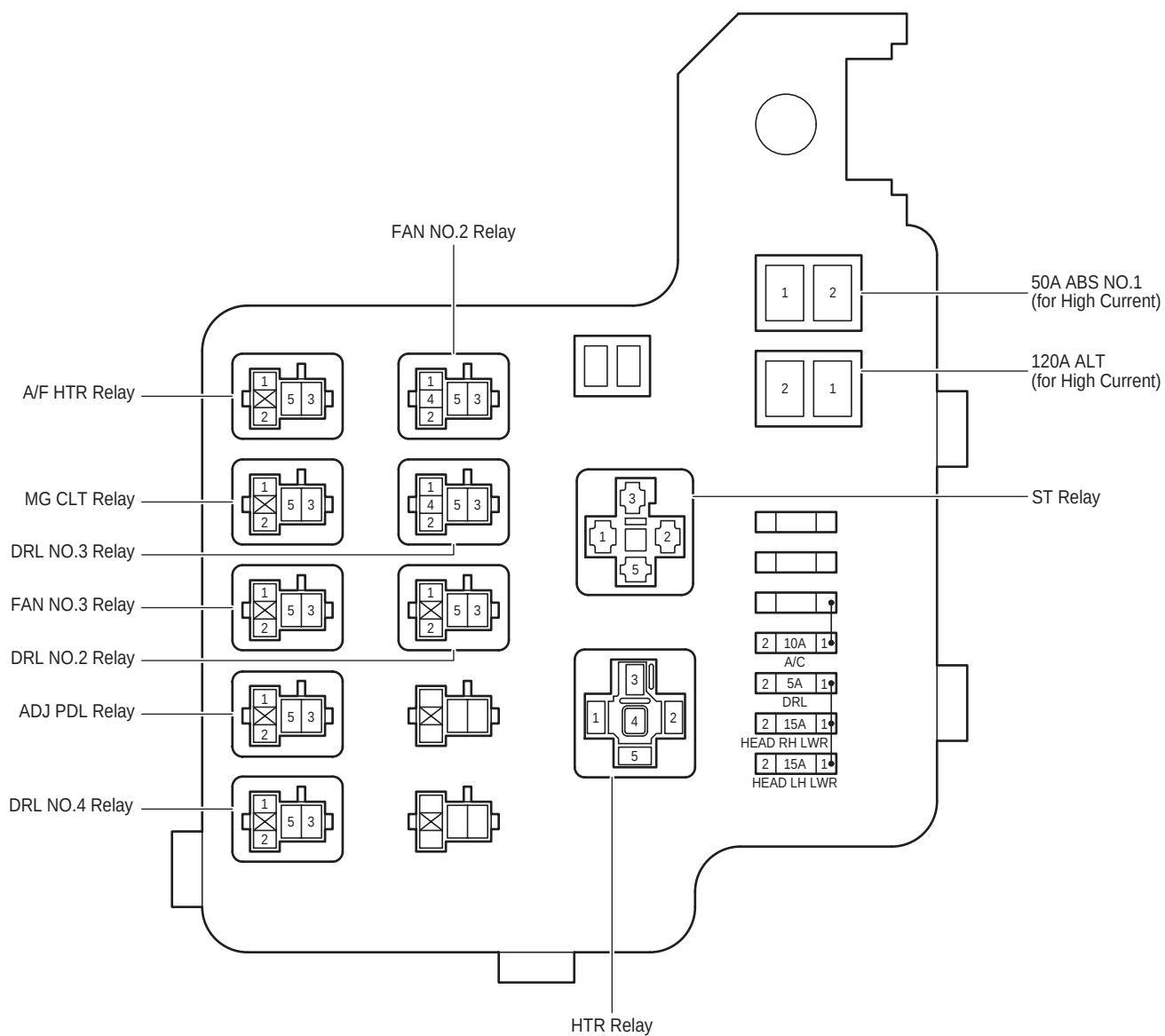


[Seat]



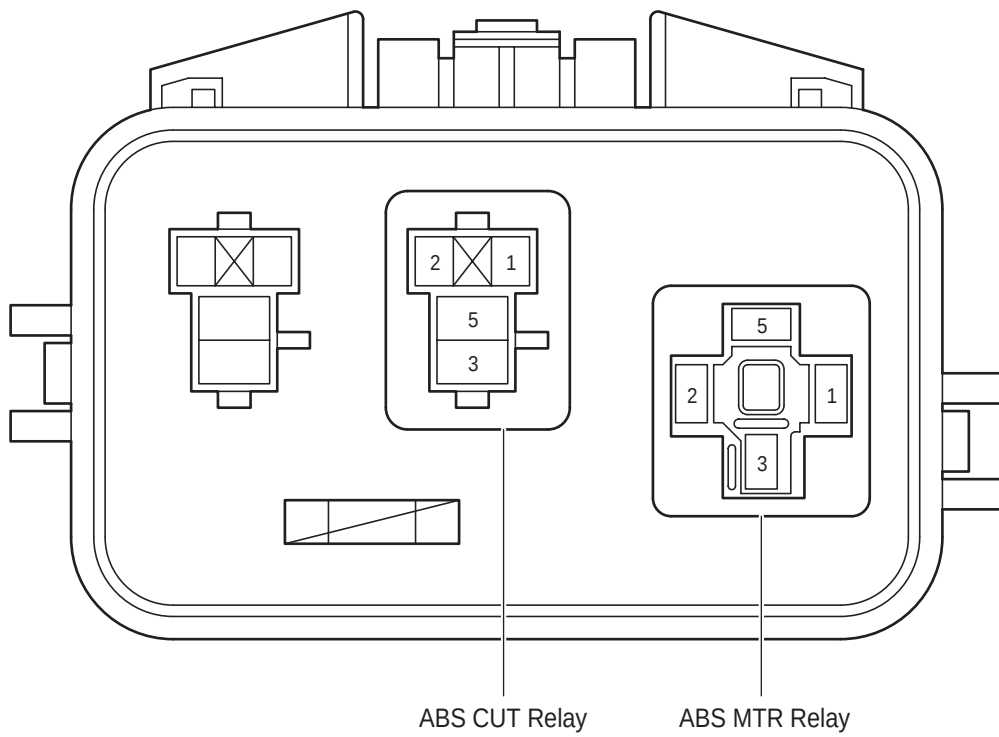
F RELAY LOCATIONS

① : Engine Room R/B	Engine Compartment Left (See Page 20)
---------------------	---------------------------------------



② : ABS R/B

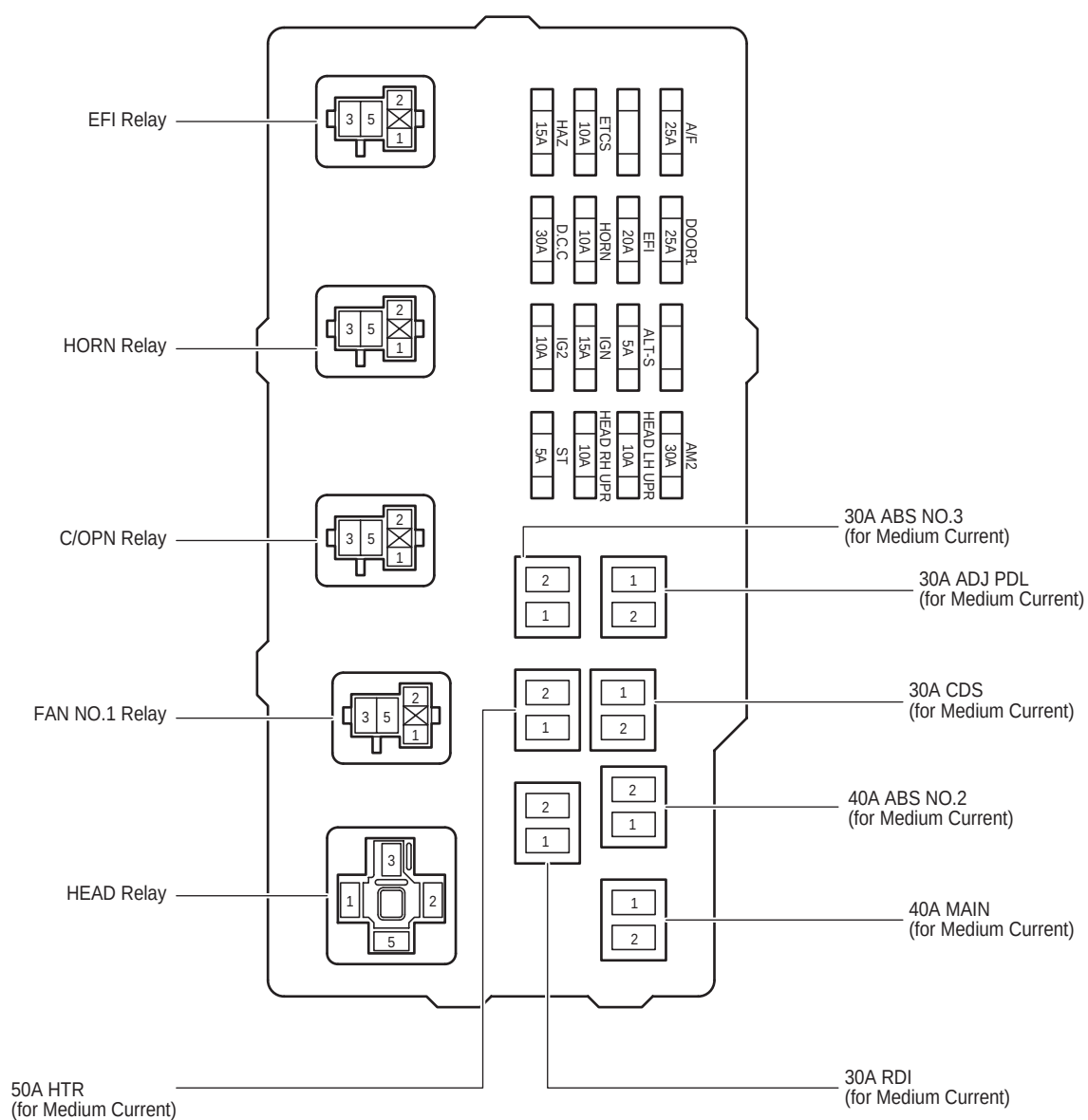
Radiator Side Support LH (See Page 20)

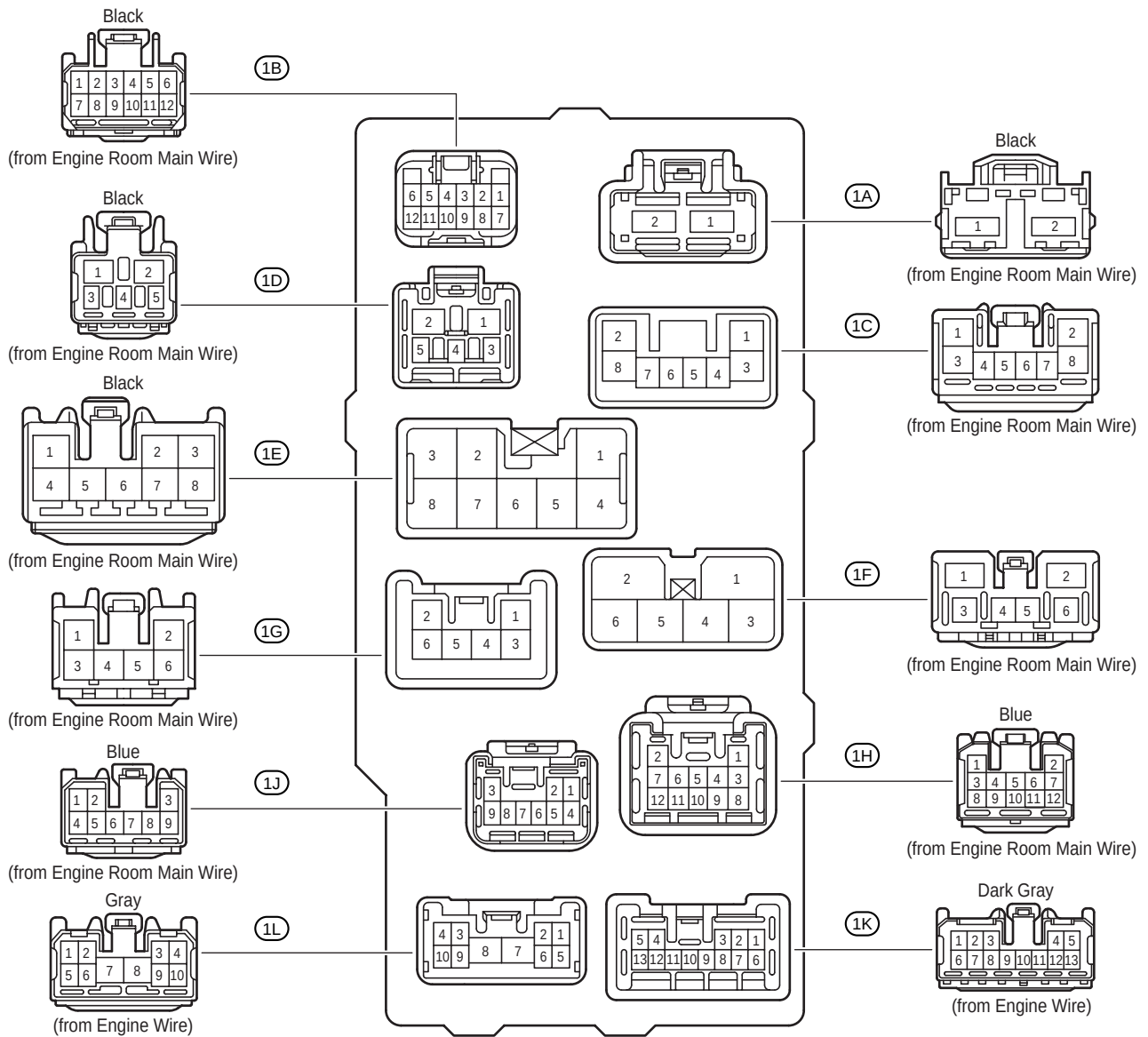


F RELAY LOCATIONS

 : Engine Room J/B

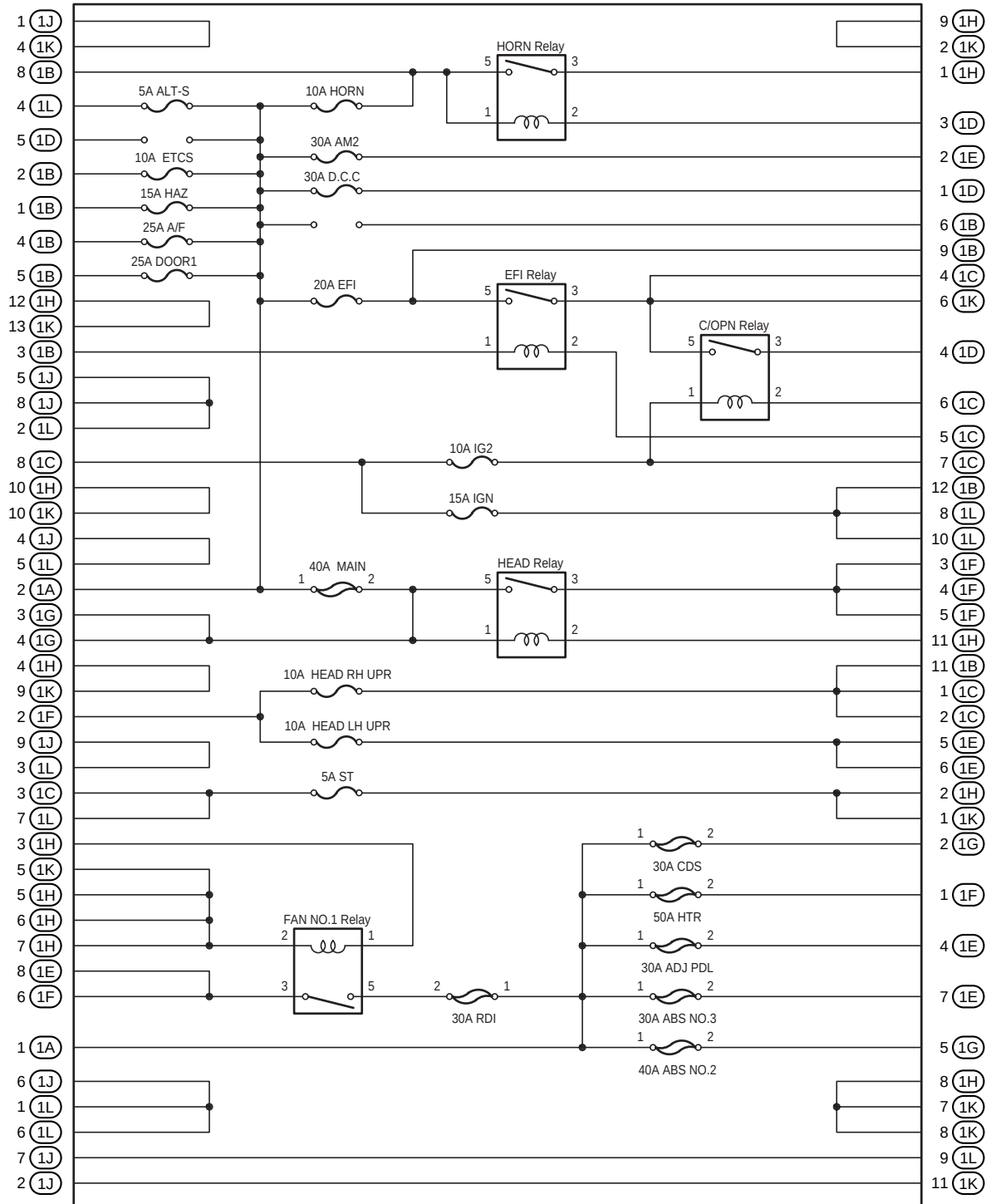
Engine Compartment Left (See Page 20)





F RELAY LOCATIONS

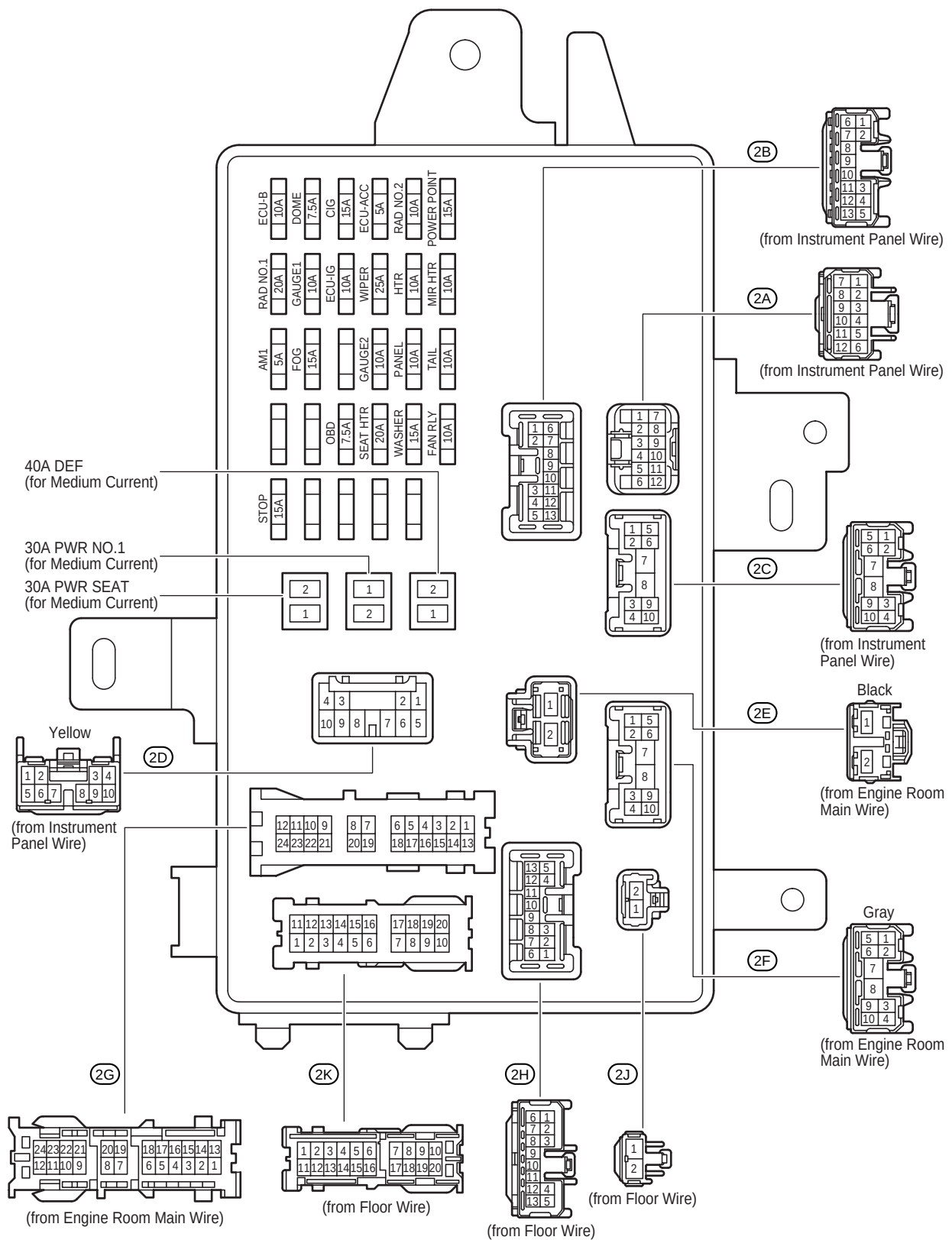
[Engine Room J/B Inner Circuit]

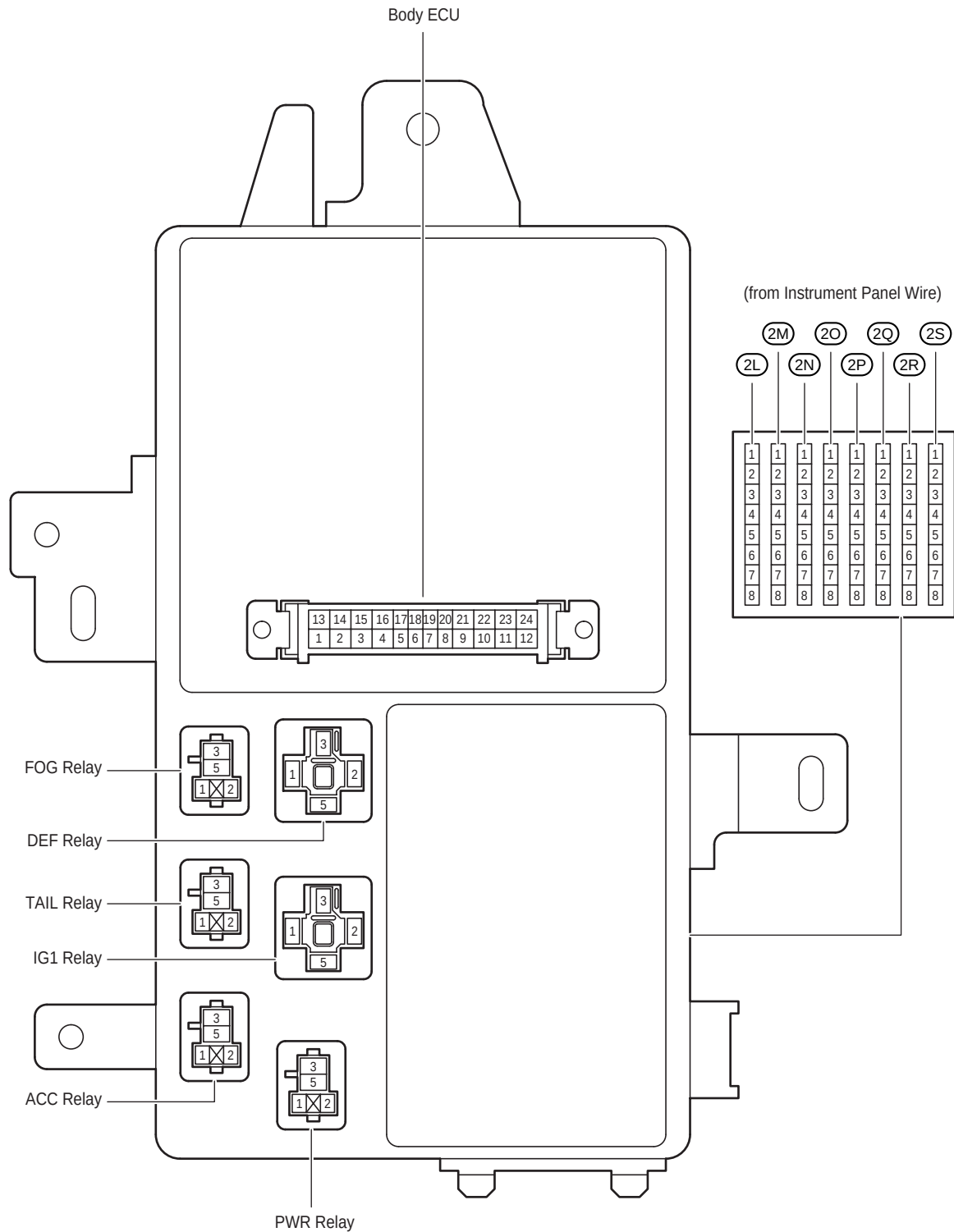


F RELAY LOCATIONS

 : Driver Side J/B

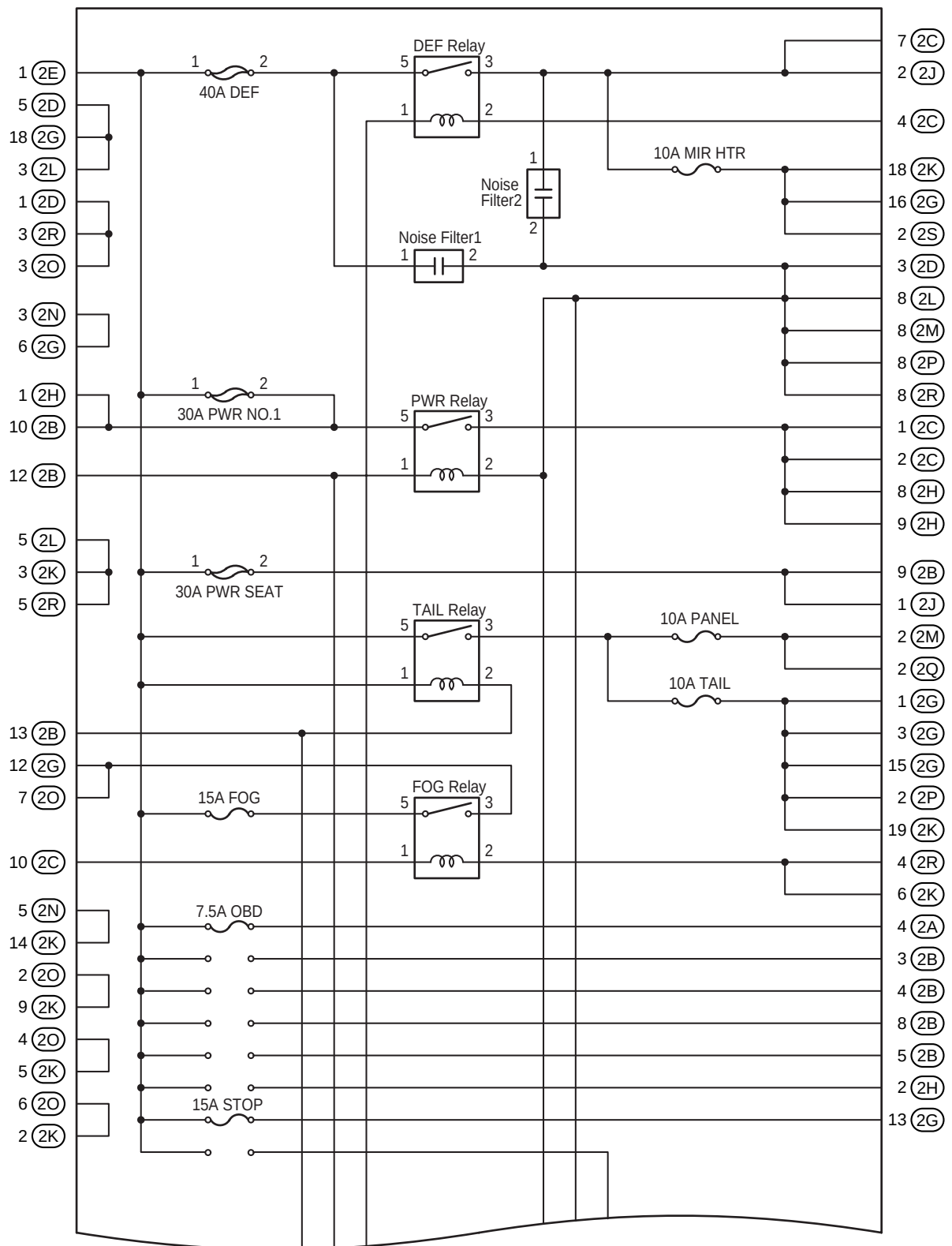
Lower Finish Panel (See Page 21)





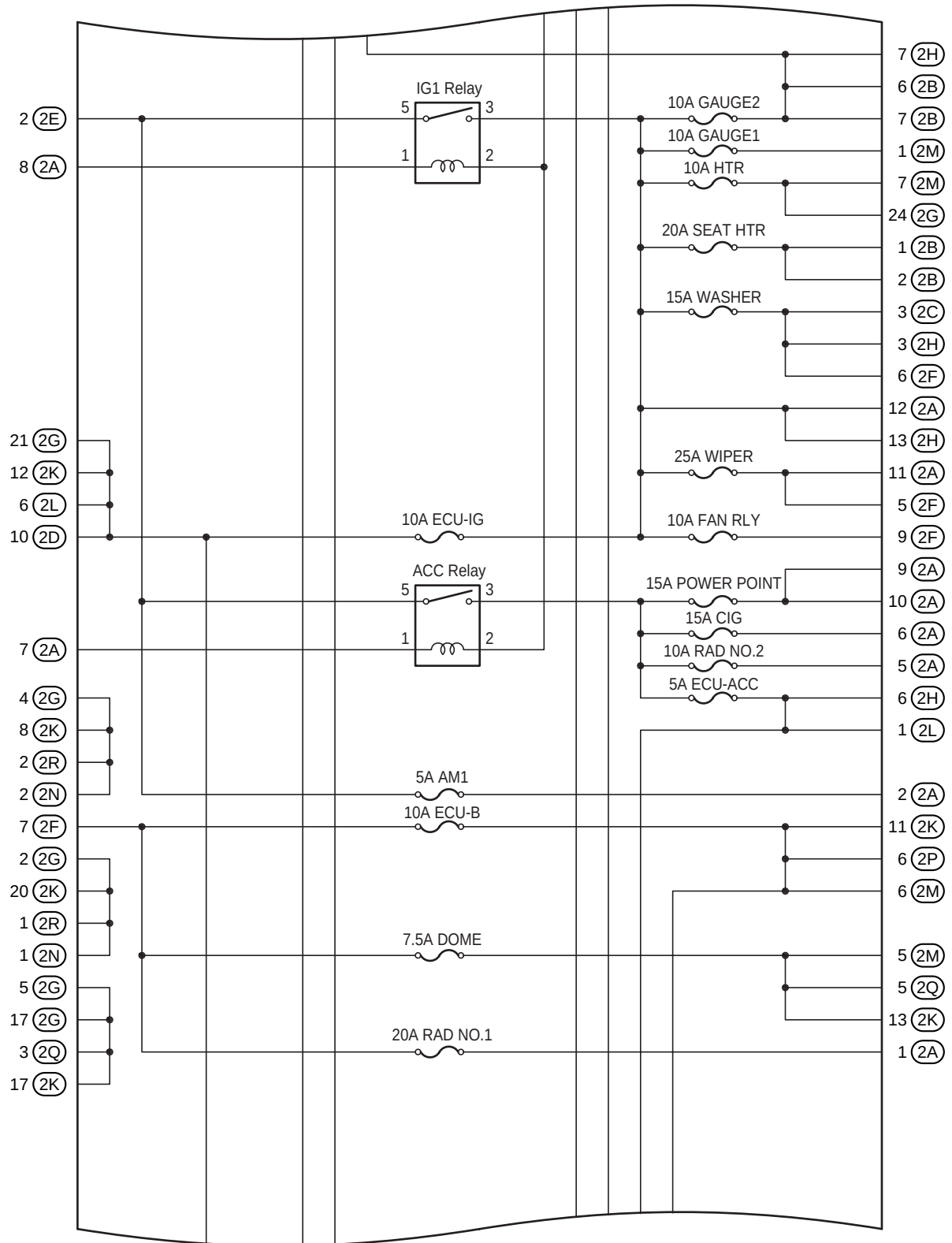
F RELAY LOCATIONS

[Driver Side J/B Inner Circuit]



(Cont. next page)

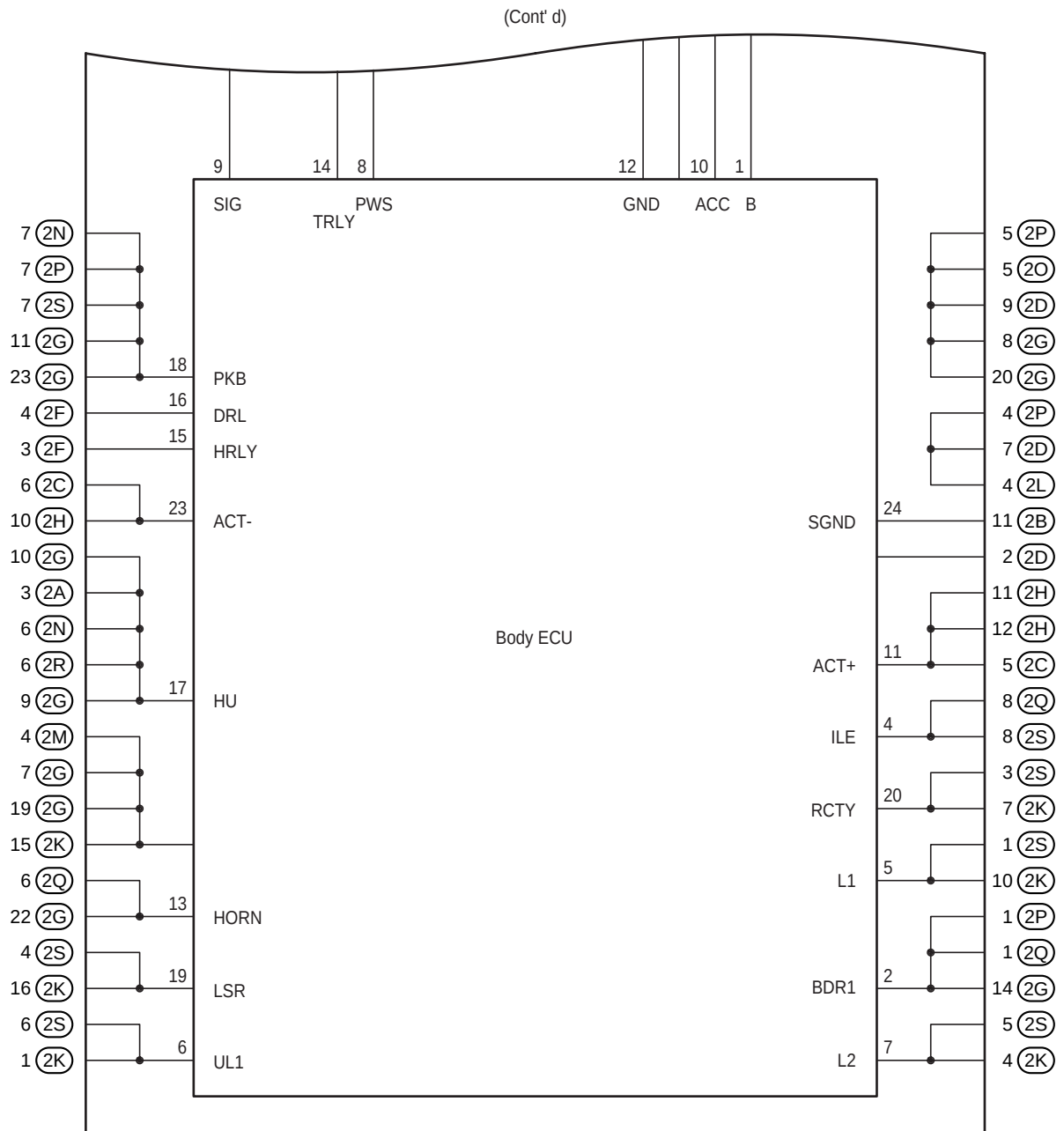
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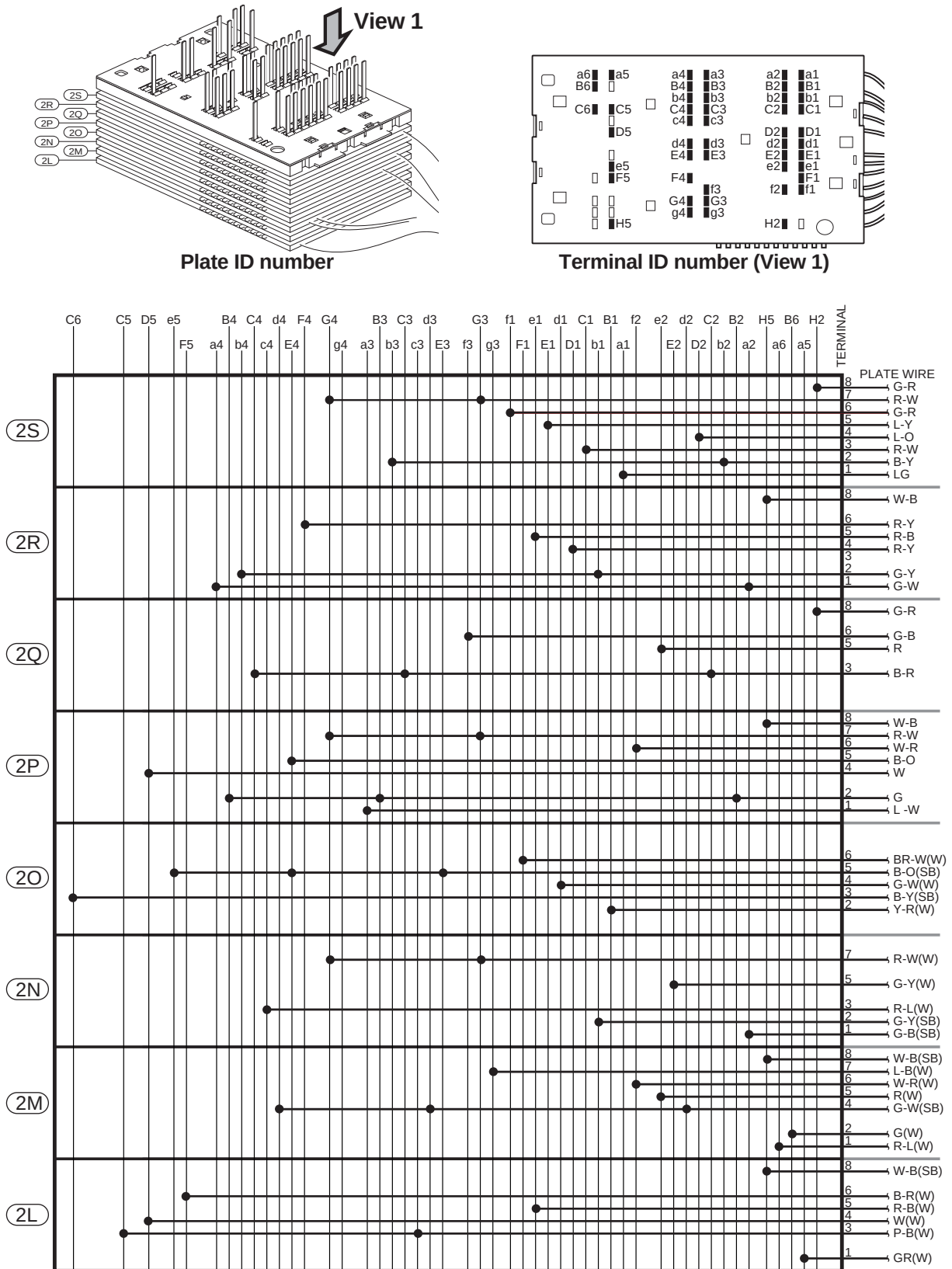
F RELAY LOCATIONS

[Driver Side J/B Inner Circuit]



Inside-the-Plate Wiring Connection Diagram

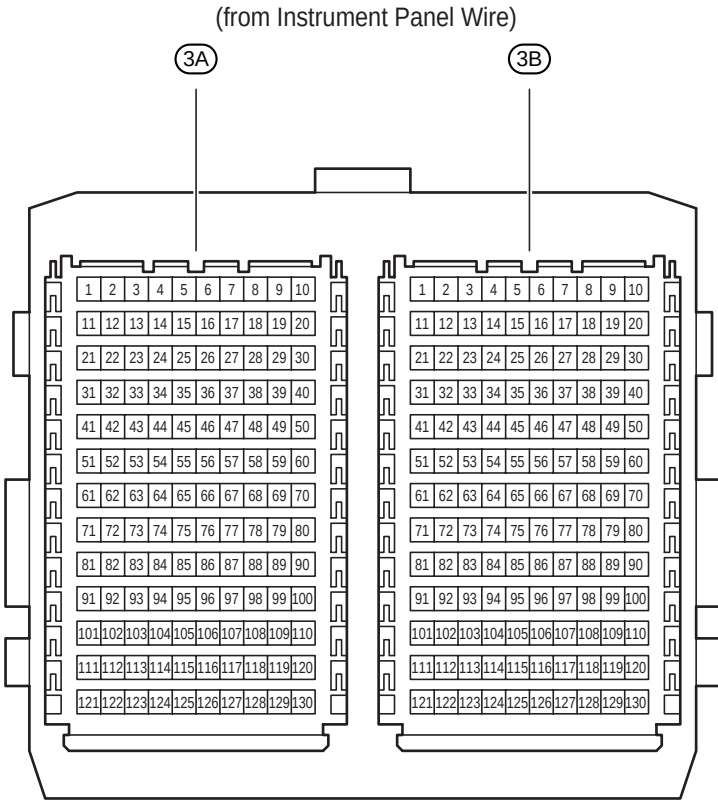
When conducting continuity test inside the plate, see the plate and terminal ID number (View 1) shown below as well as the inside-the-plate wiring connection diagram



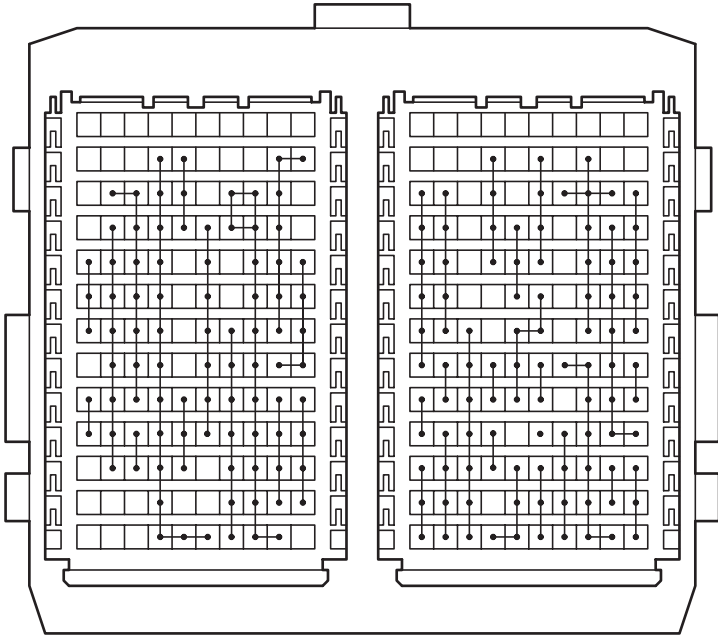
F RELAY LOCATIONS

 : Passenger Side J/B

Instrument Panel Brace RH (See Page 21)



Short Terminal Grouping

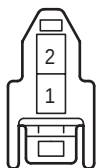


F RELAY LOCATIONS

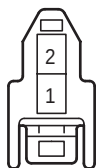
Junction Connector

Instrument Panel Center (See Page 21)

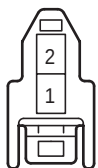
J16
Junction
Connector



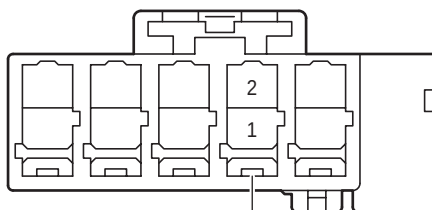
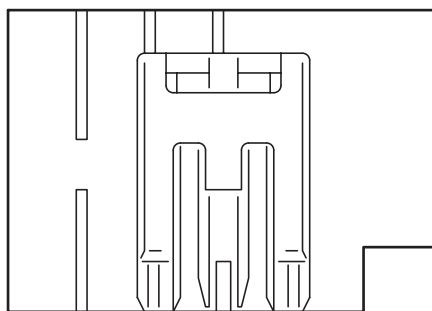
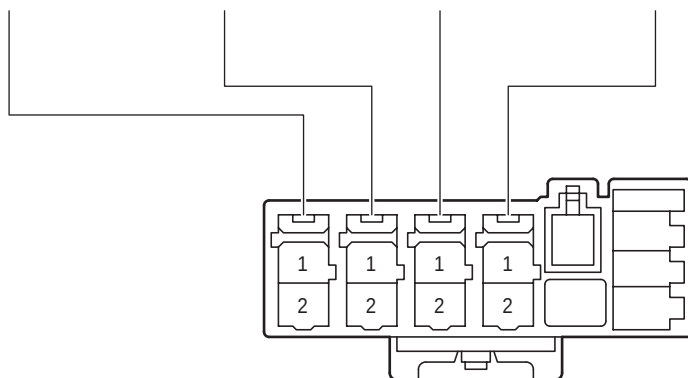
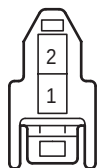
J15
Junction
Connector



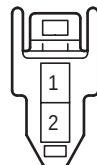
J14
Junction
Connector



J13
Junction
Connector

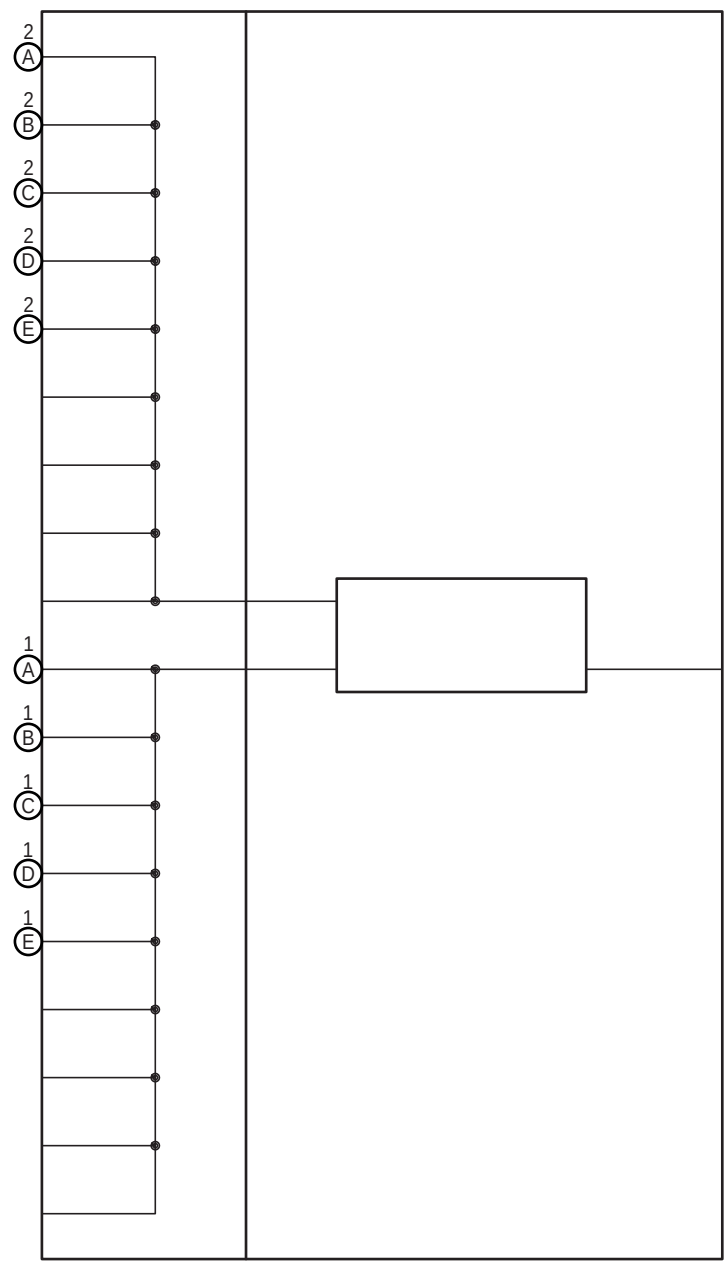


J17
Junction
Connector



[Junction Connector Inner Circuit]

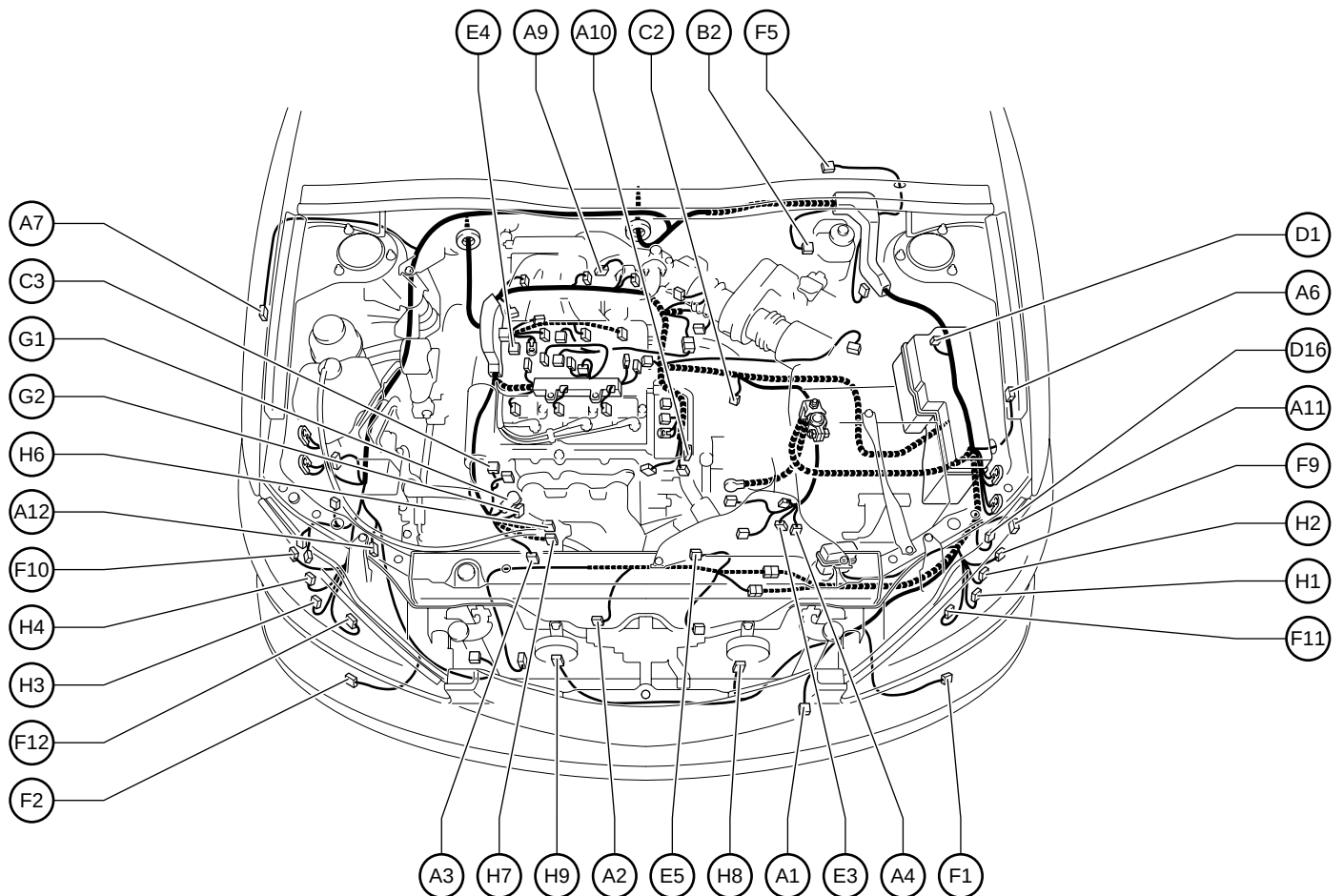
J13(A), J14(B), J15(C), J16(D), J17(E)
Junction Connector



G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment

[1MZ-FE, 3MZ-FE]



- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Condenser Fan Motor
- A 3 A/C Lock Sensor
A/C Magnetic Clutch
- A 4 A/T Indicator Light SW
Back-Up Light SW
Park/Neutral Position SW
- A 6 ABS Speed Sensor Front LH
- A 7 ABS Speed Sensor Front RH
- A 9 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
- A10 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
- A11 Airbag Sensor Front LH
- A12 Airbag Sensor Front RH

- B 2 Brake Fluid Level Warning SW

- C 2 Counter Gear Speed Sensor
- C 3 Crankshaft Position Sensor

- D 1 Diode (A/C No.1)
- D16 Daytime Running Light Resistor

- E 3 Electronically Controlled Transmission Solenoid
- E 4 Engine Coolant Temp. Sensor
- E 5 Engine Hood Courtesy SW

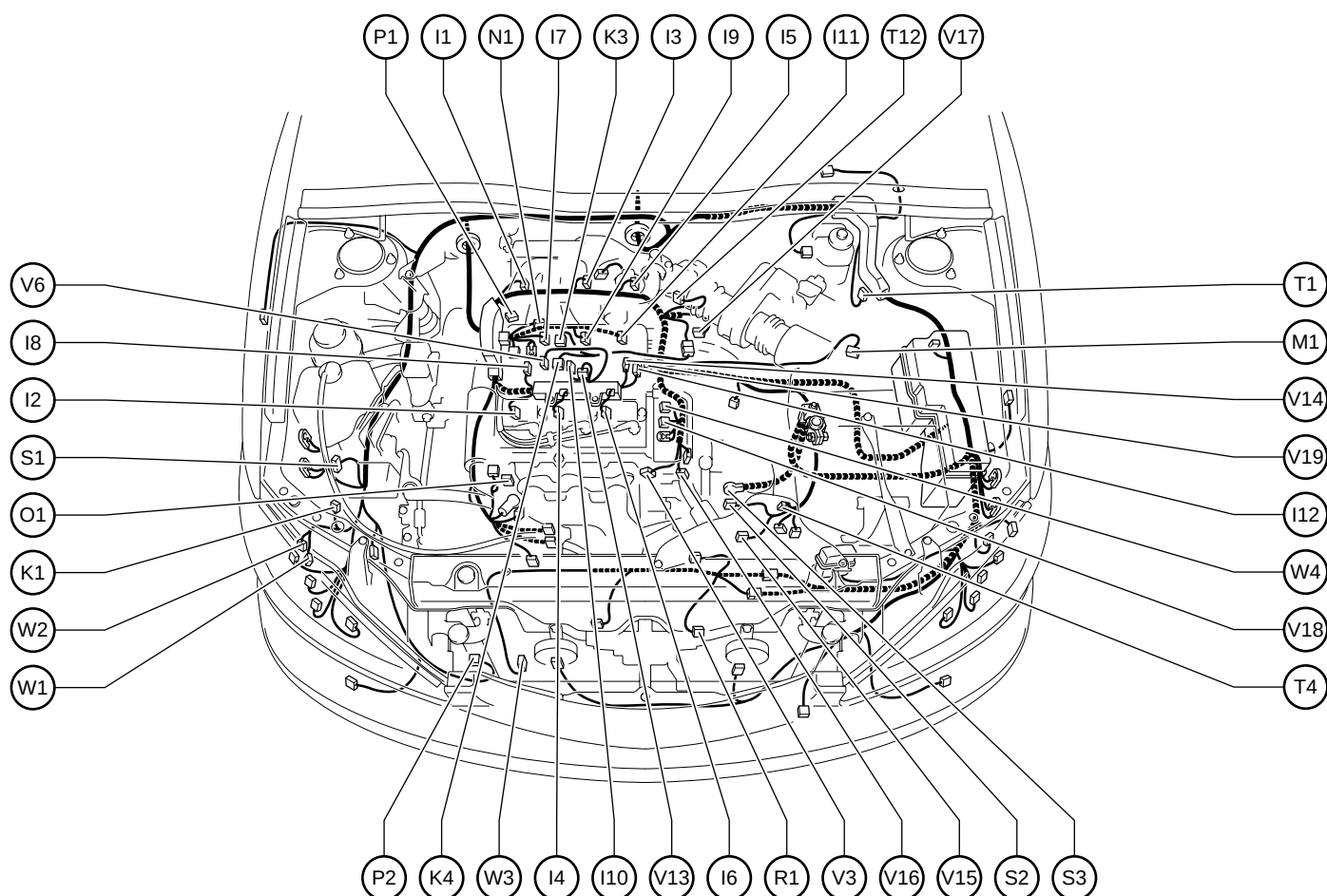
- F 1 Front Fog Light LH
- F 2 Front Fog Light RH
- F 5 Front Wiper Motor
- F 9 Front Parking Light LH
- F10 Front Parking Light RH
- F11 Front Turn Signal Light LH
- F12 Front Turn Signal Light RH

- G 1 Generator
- G 2 Generator

- H 1 Headlight LH (High)
- H 2 Headlight LH (Low)
- H 3 Headlight RH (High)
- H 4 Headlight RH (Low)
- H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H 7 Heated Oxygen Sensor (Bank 2 Sensor 2)
- H 8 Horn (High)
- H 9 Horn (Low)

Position of Parts in Engine Compartment

[1MZ-FE, 3MZ-FE]



I 1 Ignition Coil and Igniter No.1
 I 2 Ignition Coil and Igniter No.2
 I 3 Ignition Coil and Igniter No.3
 I 4 Ignition Coil and Igniter No.4
 I 5 Ignition Coil and Igniter No.5
 I 6 Ignition Coil and Igniter No.6

I 7 Injector No.1
 I 8 Injector No.2
 I 9 Injector No.3
 I 10 Injector No.4
 I 11 Injector No.5
 I 12 Injector No.6

K 1 Keyless Buzzer
 K 3 Knock Sensor (Bank 1)
 K 4 Knock Sensor (Bank 2)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition)

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
 P 2 Pressure SW

R 1 Radiator Fan Motor

S 1 Skid Control ECU with Actuator
 S 2 Starter
 S 3 Starter

T 1 Theft Deterrent Horn
 T 4 Turbine Speed Sensor
 T 12 Throttle Control Motor
 Throttle Position Sensor

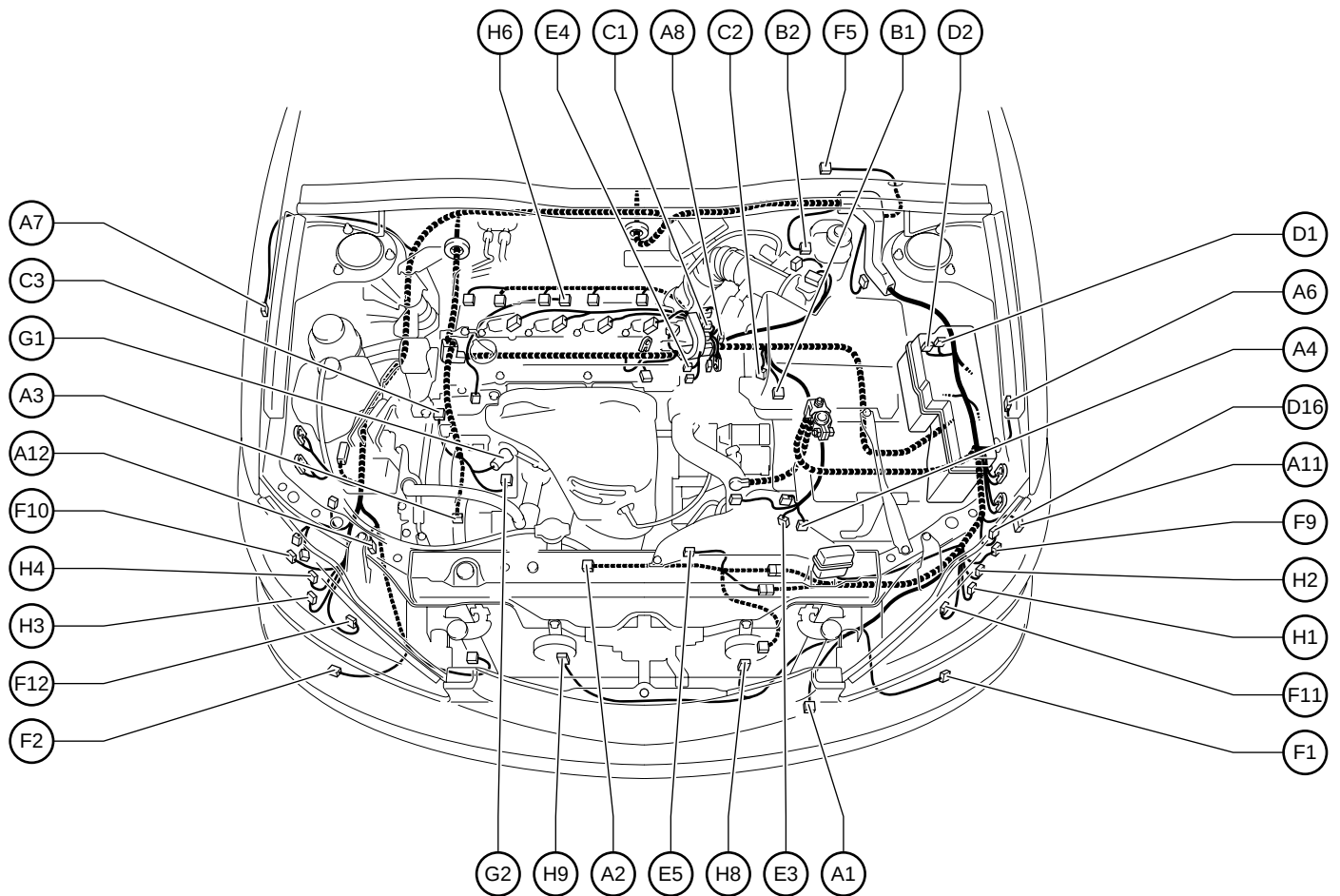
V 3 VSV (AICV)
 V 6 VSV (EVAP)
 V 13 VSV (ACIS No.1)
 V 14 VSV (ACIS No.2)
 V 15 VSV (ACM)
 V 16 VVT Sensor LH
 V 17 VVT Sensor RH
 V 18 VVT Solenoid LH
 V 19 VVT Solenoid RH

W 1 Washer Level Sensor
 W 2 Washer Motor
 W 3 Water Temp. SW No.1
 W 4 Water Temp. SW No.2

G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment

[2AZ-FE]



- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Condenser Fan Motor
- A 3 A/C Lock Sensor
A/C Magnetic Clutch
- A 4 A/T Indicator Light SW
Back-Up Light SW
Park/Neutral Position SW
- A 6 ABS Speed Sensor Front LH
- A 7 ABS Speed Sensor Front RH
- A 8 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
- A 11 Airbag Sensor Front LH
- A 12 Airbag Sensor Front RH

- B 1 Back-Up Light SW
- B 2 Brake Fluid Level Warning SW

- C 1 Camshaft Position Sensor
- C 2 Counter Gear Speed Sensor
- C 3 Crankshaft Position Sensor

- D 1 Diode (A/C No.1)
- D 2 Diode (A/C No.2)
- D16 Daytime Running Light Resistor

- E 3 Electronically Controlled Transmission Solenoid
- E 4 Engine Coolant Temp. Sensor
- E 5 Engine Hood Courtesy SW

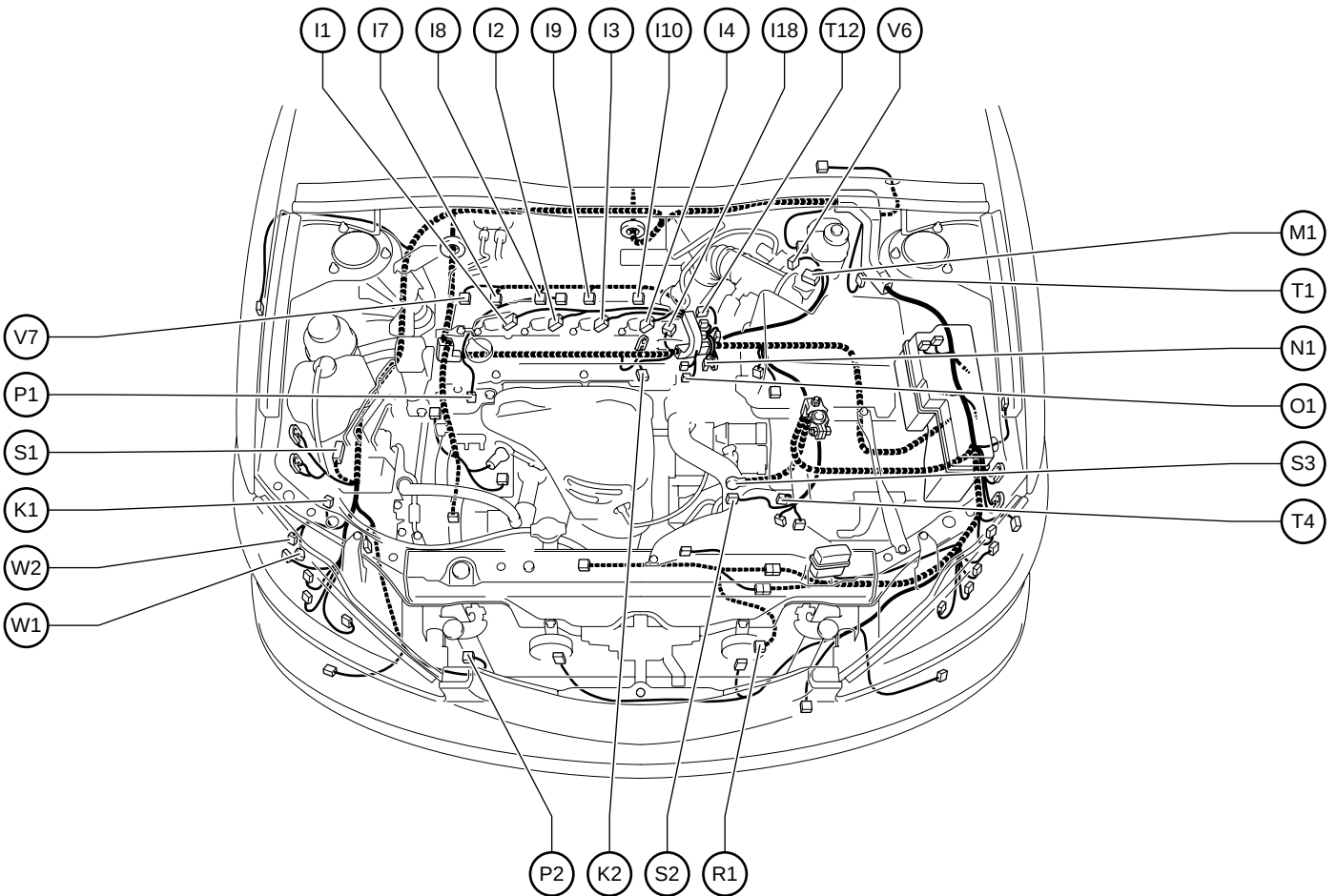
- F 1 Front Fog Light LH
- F 2 Front Fog Light RH
- F 5 Front Wiper Motor
- F 9 Front Parking Light LH
- F 10 Front Parking Light RH
- F 11 Front Turn Signal Light LH
- F 12 Front Turn Signal Light RH

- G 1 Generator
- G 2 Generator

- H 1 Headlight LH (High)
- H 2 Headlight LH (Low)
- H 3 Headlight RH (High)
- H 4 Headlight RH (Low)
- H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H 8 Horn (High)
- H 9 Horn (Low)

Position of Parts in Engine Compartment

[2AZ-FE]



I 1 Ignition Coil and Igniter No.1
 I 2 Ignition Coil and Igniter No.2
 I 3 Ignition Coil and Igniter No.3
 I 4 Ignition Coil and Igniter No.4
 I 7 Injector No.1
 I 8 Injector No.2
 I 9 Injector No.3
 I 10 Injector No.4
 I 18 Intake Air Control Valve

K 1 Keyless Buzzer
 K 2 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition)

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
 P 2 Pressure SW

R 1 Radiator Fan Motor

S 1 Skid Control ECU with Actuator
 S 2 Starter
 S 3 Starter

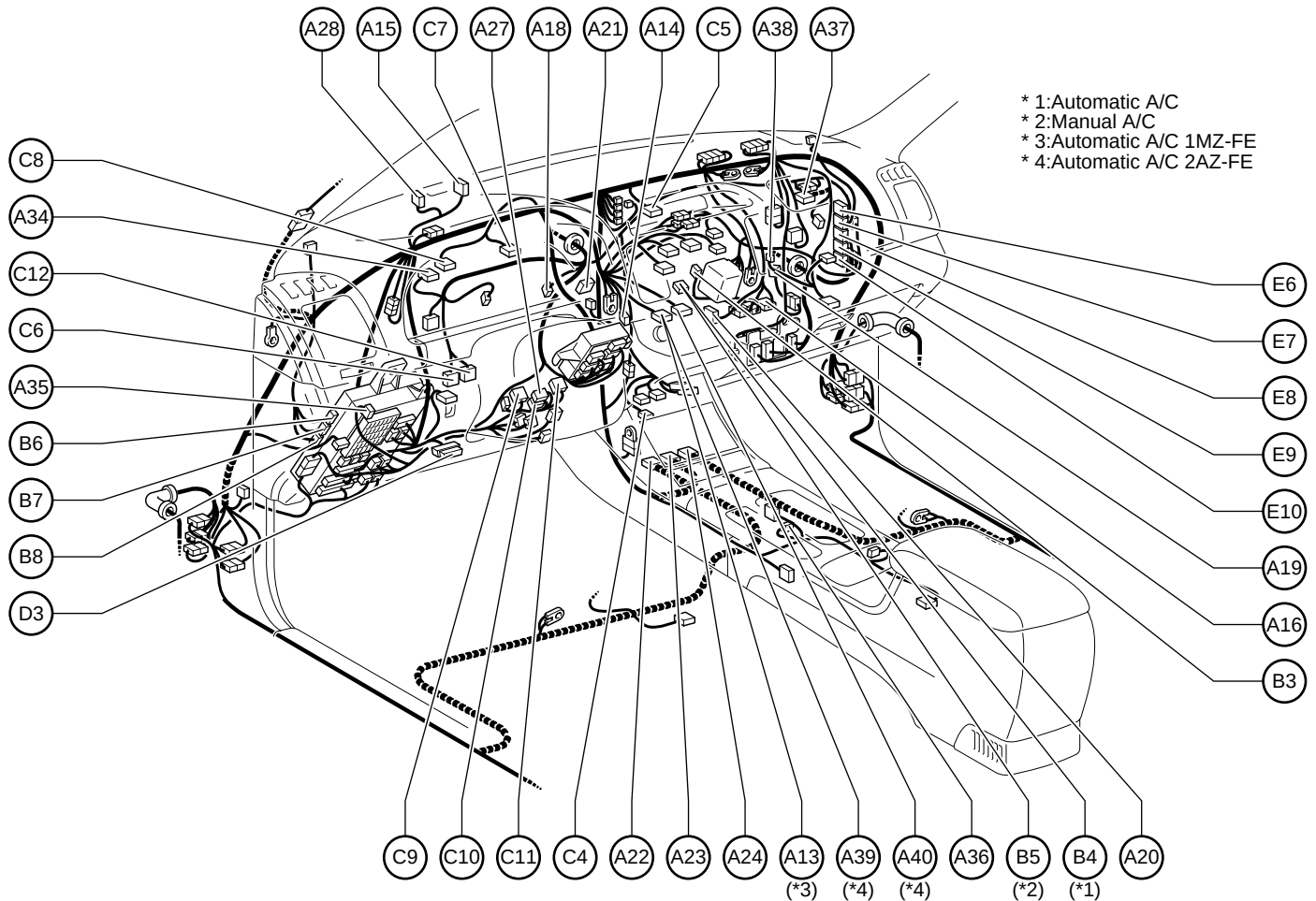
T 1 Theft Deterrent Horn
 T 4 Turbine Speed Sensor
 T 12 Throttle Control Motor
 Throttle Position Sensor

V 6 VSV (EVAP)
 V 7 VVT Solenoid

W 1 Washer Level Sensor
 W 2 Washer Motor

G ELECTRICAL WIRING ROUTING

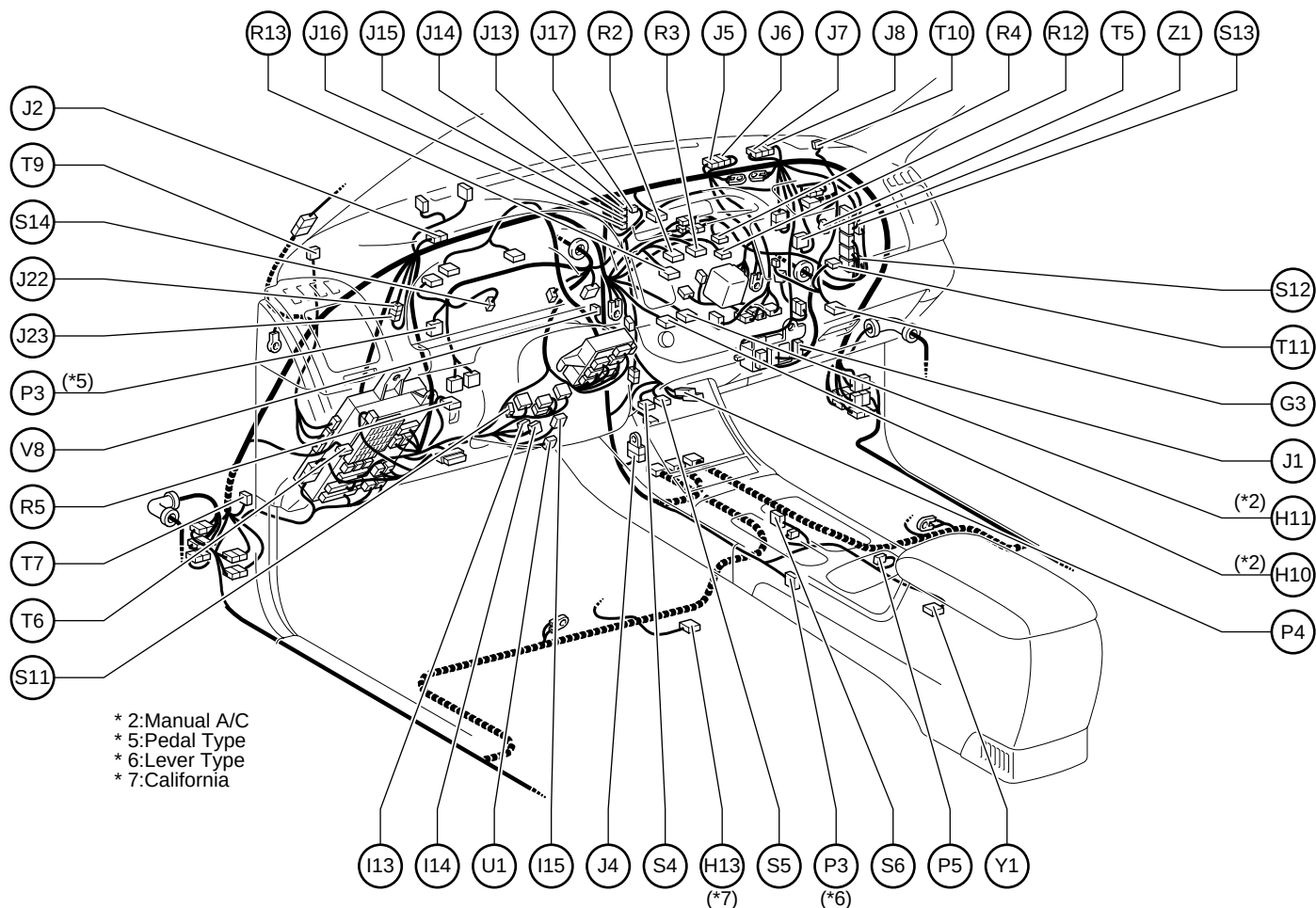
Position of Parts in Instrument Panel



A13 A/C Control Assembly
 A14 A/C Room Temp. Sensor
 A15 A/C Solar Sensor
 A16 A/C Thermistor
 A18 Accelerator Position Sensor
 A19 Air Inlet Control Servo Motor
 A20 Air Mix Control Servo Motor
 A21 Air Vent Mode Servo Motor
 A22 Airbag Sensor Assembly
 A23 Airbag Sensor Assembly
 A24 Airbag Sensor Assembly
 A27 Airbag Squib (Steering Wheel Pad)
 A28 Automatic Light Control Sensor
 A34 Adjustable Pedal Motor
 A35 Adjustable Pedal SW
 A36 A/T Shift Lever Illumination
 Transmission Control SW
 A37 Airbag Squib (Front Airbag Sensor Assembly)
 A38 A/C Amplifier
 A39 A/C Control Assembly
 A40 A/C Control Assembly

B 3 Blower Motor
 B 4 Blower Motor Controller
 B 5 Blower Resistor
 B 6 Body ECU
 B 7 Body ECU
 B 8 Body ECU
 C 4 Cigarette Lighter
 Cigarette Lighter Illumination
 C 5 Clock
 C 6 Clutch Start SW
 C 7 Combination Meter
 C 8 Combination Meter
 C 9 Combination SW
 C10 Combination SW
 C11 Combination SW
 C12 Cruise Control Clutch SW
 D 3 Data Link Connector 3
 E 6 Engine Control Module
 E 7 Engine Control Module
 E 8 Engine Control Module
 E 9 Engine Control Module
 E10 Engine Control Module

Position of Parts in Instrument Panel



G 3 Glove Box Light and SW

H10 Heater Control SW
 H11 Heater Control SW
 H13 Heated Oxygen Sensor (Bank 1 Sensor 3)

I 13 Ignition Key Cylinder Light
 I 14 Ignition Key Cylinder Light
 Transponder Key Amplifier
 I 15 Ignition SW

J 1 Junction Connector
 J 2 Junction Connector
 J 4 Junction Connector
 J 5 Junction Connector
 J 6 Junction Connector
 J 7 Junction Connector
 J 8 Junction Connector
 J 13 Junction Connector
 J 14 Junction Connector
 J 15 Junction Connector
 J 16 Junction Connector
 J 17 Junction Connector
 J 22 Junction Connector
 J 23 Junction Connector

P 3 Parking Brake SW
 P 4 Power Outlet (Front)
 P 5 Power Outlet (Rear)

R 2 Radio and Player
 R 3 Radio and Player
 R 4 Radio and Player (w/o Navigation System)
 Radio and Player with Display (w/ Navigation System)
 R 5 Rheostat
 R12 Radio and Player with Display
 R13 Radio and Player (w/o Navigation System)
 Radio and Player with Display (w/ Navigation System)

S 4 Seat Heater SW (Driver's Seat)
 S 5 Seat Heater SW (Front Passenger's Seat)
 S 6 Shift Lock Control ECU
 S11 Steering Sensor
 S12 Stereo Component Amplifier
 S13 Stereo Component Amplifier
 S14 Stop Light SW

T 5 Theft Deterrent ECU
 T 6 TRAC OFF SW
 T 7 Turn Signal Flasher Relay
 T 9 Tweeter LH
 T10 Tweeter RH
 T11 Transponder Key Computer

U 1 Unlock Warning SW

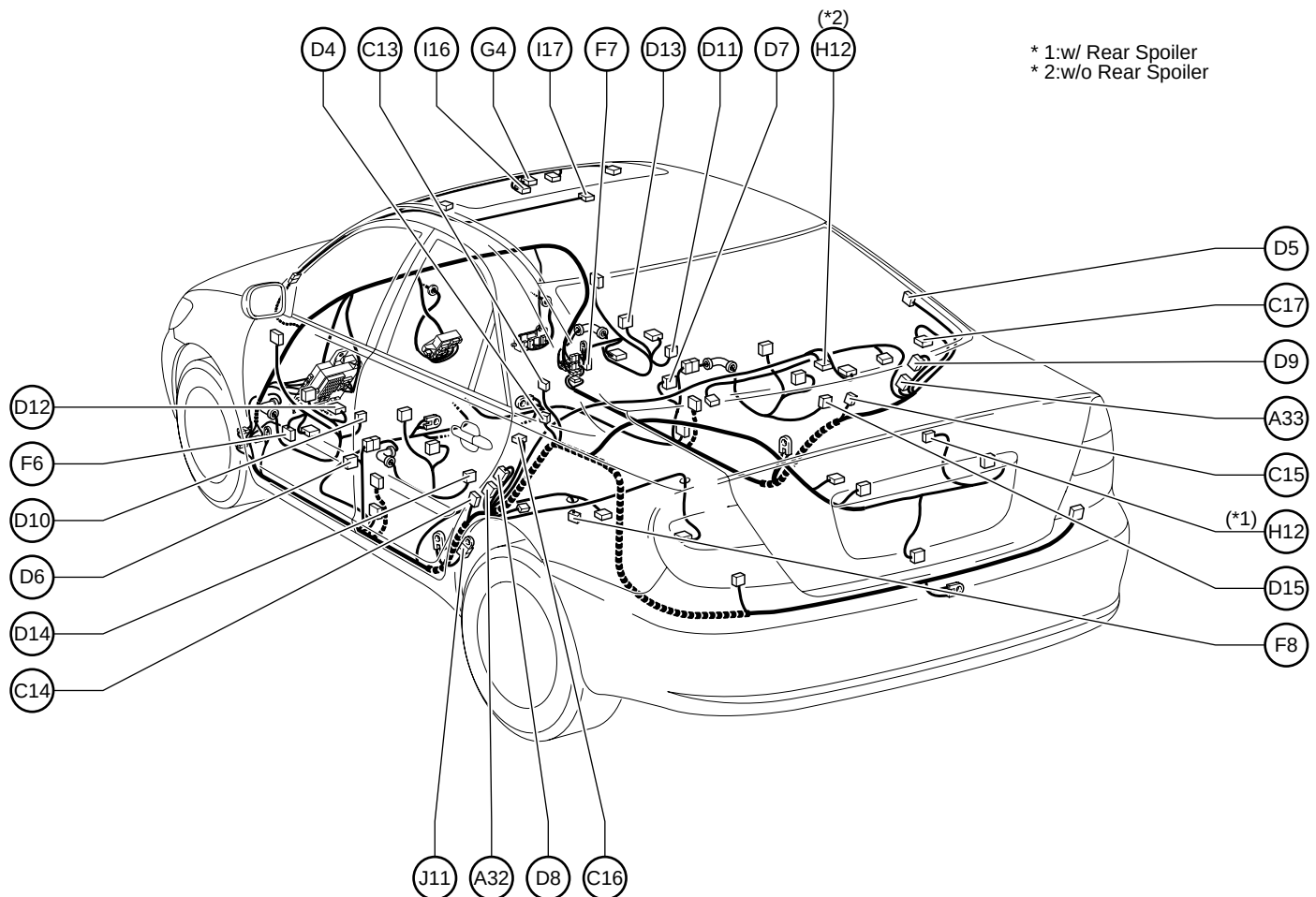
V 8 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Z 1 Option Connector (TVIP ECU)

G ELECTRICAL WIRING ROUTING

Position of Parts in Body



* 1:w/ Rear Spoiler
* 2:w/o Rear Spoiler

A32 ABS Speed Sensor Rear LH
A33 ABS Speed Sensor Rear RH

C13 Choke Coil
C14 Curtain Shield Airbag Sensor LH
C15 Curtain Shield Airbag Sensor RH
C16 Curtain Shield Airbag Squib LH
C17 Curtain Shield Airbag Squib RH

D 4 Diode (Luggage Compartment Light)
D 5 Door Control Receiver
D 6 Door Courtesy SW Front LH
D 7 Door Courtesy SW Front RH
D 8 Door Courtesy SW Rear LH
D 9 Door Courtesy SW Rear RH
D10 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D11 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
D12 Door Lock Control SW Front LH
Power Window Master SW
D13 Door Lock Control SW RH
D14 Door Lock Motor Rear LH
Door Unlock Detection SW Rear LH
D15 Door Lock Motor Rear RH
Door Unlock Detection SW Rear RH

F 6 Front Door Speaker LH
F 7 Front Door Speaker RH
F 8 Fuel Pump
Fuel Sender

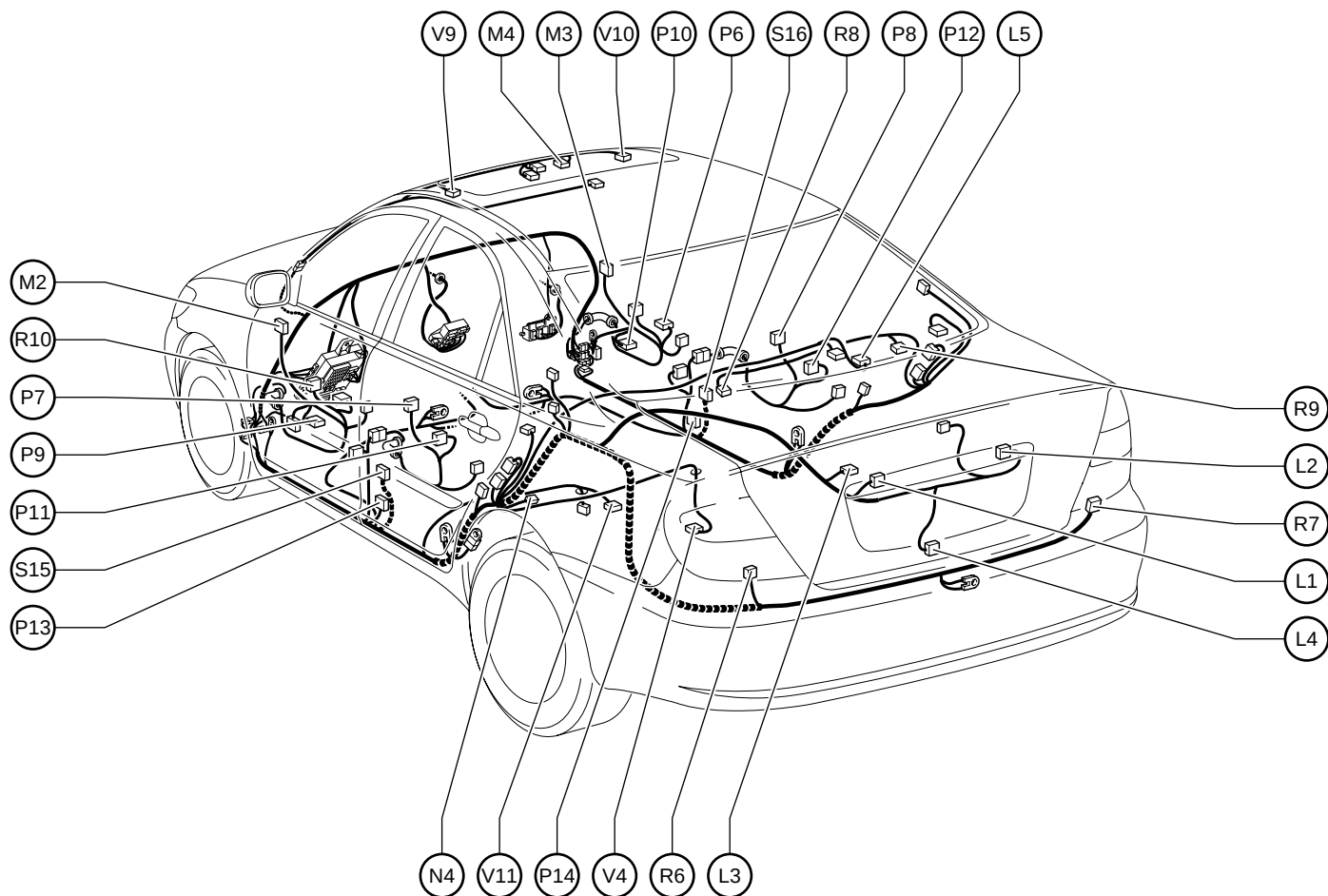
G 4 Garage Door Opener
Moon Roof Control SW
Personal Light

H12 High Mounted Stop Light

I 16 Inner Mirror
I 17 Interior Light

J 11 Junction Connector

Position of Parts in Body



- L 1 License Plate Light LH
- L 2 License Plate Light RH
- L 3 Luggage Compartment Door Key Unlock SW
- L 4 Luggage Compartment Door Opener Motor
- Luggage Compartment Light SW
- L 5 Luggage Compartment Light

- M 2 Mirror Heater LH
- Remote Control Mirror LH

- M 3 Mirror Heater RH
- Remote Control Mirror RH

- M 4 Moon Roof Control ECU and Motor

- N 4 Noise Filter (Stop and Dome)

- P 6 Power Window Control SW Front RH
- P 7 Power Window Control SW Rear LH
- P 8 Power Window Control SW Rear RH
- P 9 Power Window Motor Front LH
- P10 Power Window Motor Front RH
- P11 Power Window Motor Rear LH
- P12 Power Window Motor Rear RH
- P13 Pretensioner LH
- P14 Pretensioner RH

- R 6 Rear Combination Light LH
- R 7 Rear Combination Light RH
- R 8 Rear Speaker LH
- R 9 Rear Speaker RH
- R10 Remote Control Mirror SW

- S15 Side Airbag Sensor LH

- S16 Side Airbag Sensor RH

- V 4 VSV (Canister Closed Valve)

- V 9 Vanity Light LH

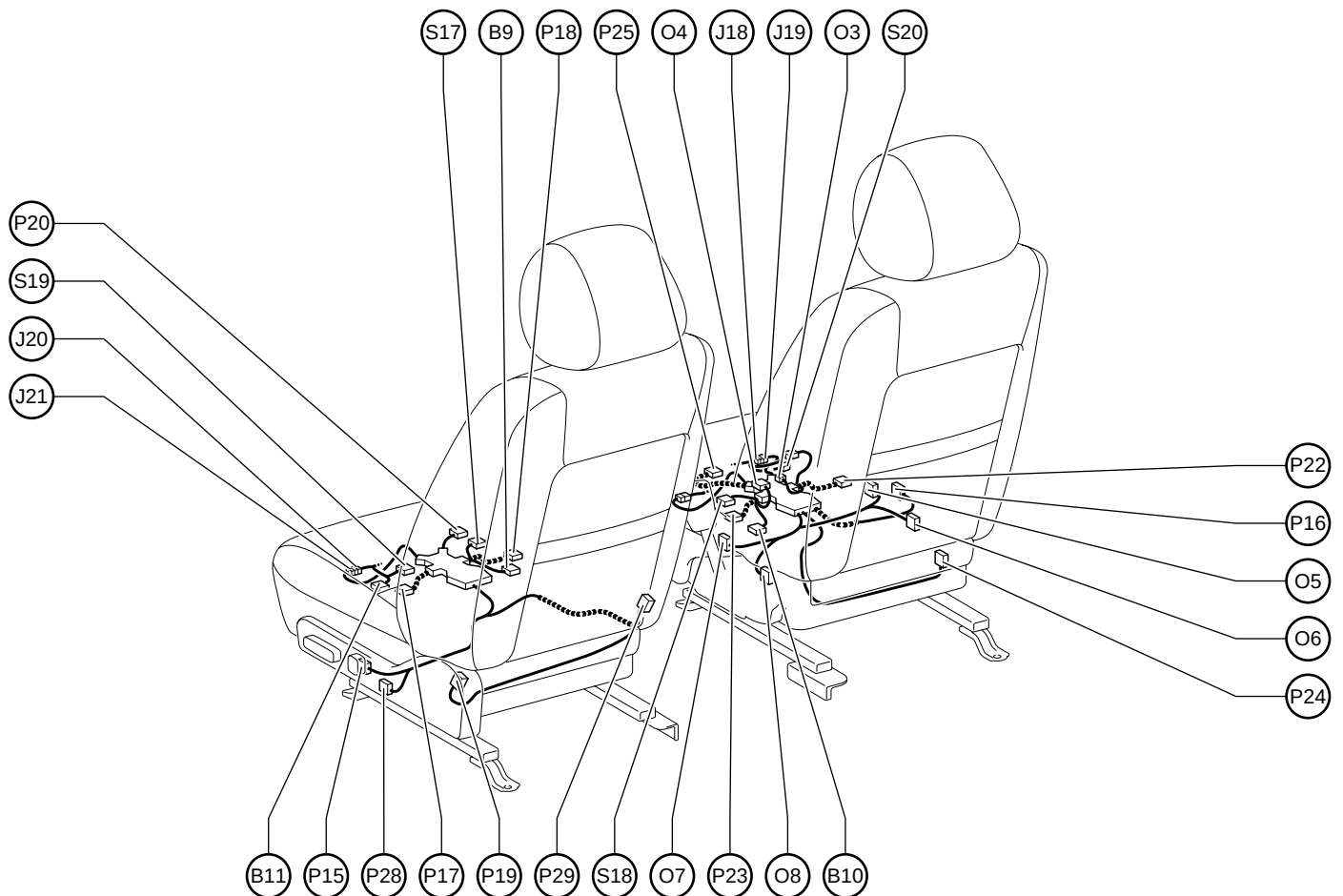
- V10 Vanity Light RH

- V11 Vapor Pressure Sensor

G ELECTRICAL WIRING ROUTING

Position of Parts in Seat

[w/ Power Seat]



B 9 Buckle SW LH
 B10 Buckle SW (Front Passenger's Side)
 B11 Buckle SW LH
 Seat Position Airbag Sensor

J 18 Junction Connector
 J 19 Junction Connector
 J 20 Junction Connector
 J 21 Junction Connector

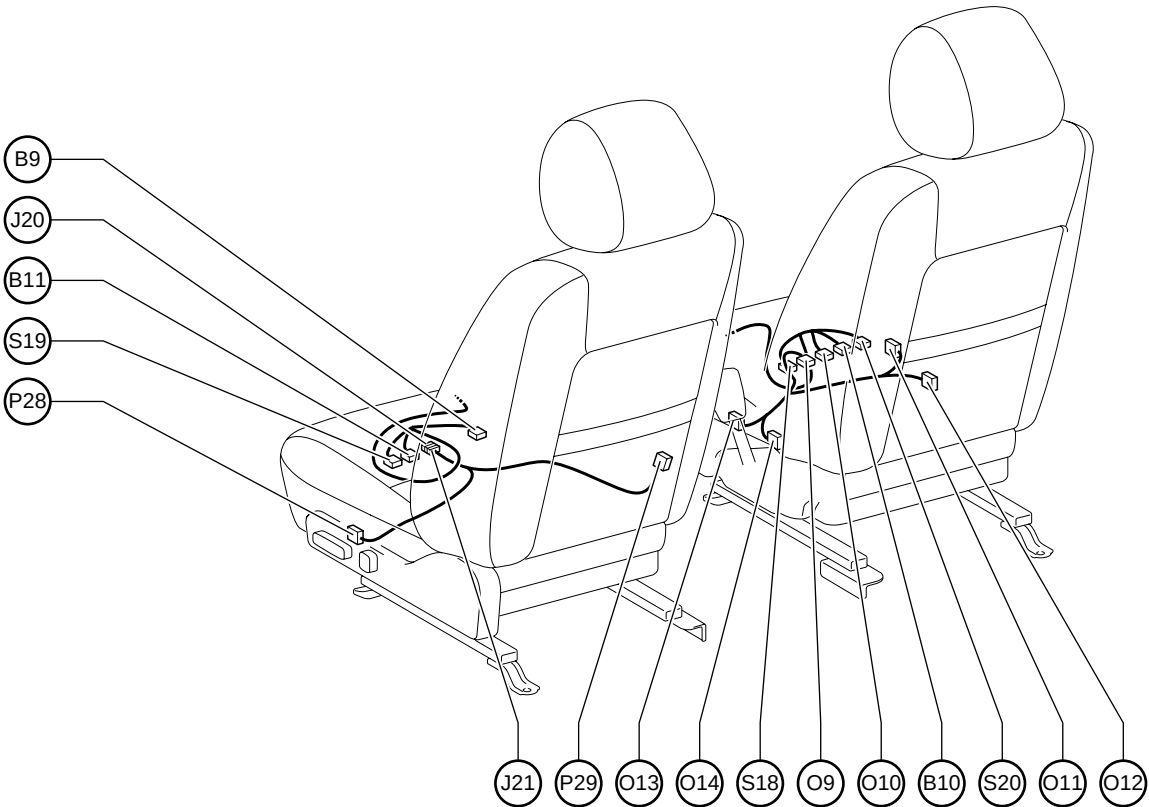
O 3 Occupant Classification ECU
 O 4 Occupant Classification ECU
 O 5 Occupant Classification Sensor Front RH
 O 6 Occupant Classification Sensor Rear RH
 O 7 Occupant Classification Sensor Front LH
 O 8 Occupant Classification Sensor Rear LH

P15 Power Seat Control SW (Driver's Seat)
 P16 Power Seat Control SW (Front Passenger's Seat)
 P17 Power Seat Motor (Driver's Seat Front Vertical Control)
 P18 Power Seat Motor (Driver's Seat Lifter Control)
 P19 Power Seat Motor (Driver's Seat Reclining Control)
 P20 Power Seat Motor (Driver's Seat Slide Control)
 P22 Power Seat Motor
 (Front Passenger's Seat Front Vertical Control)
 P23 Power Seat Motor
 (Front Passenger's Seat Lifter Control)
 P24 Power Seat Motor
 (Front Passenger's Seat Reclining Control)
 P25 Power Seat Motor
 (Front Passenger's Seat Slide Control)
 P28 Power Seat Control SW
 (Driver's Seat Lumbar Support Control)
 P29 Power Seat Motor
 (Driver's Seat Lumbar Support Control)

S17 Seat Heater LH
 S18 Seat Heater RH
 S19 Side Airbag Squib LH
 S20 Side Airbag Squib RH

Position of Parts in Seat

[w/o Power Seat]



B 9 Buckle SW LH
 B10 Buckle SW (Front Passenger's Side)
 B11 Buckle SW LH
 Seat Position Airbag Sensor

J 20 Junction Connector
 J 21 Junction Connector

O 9 Occupant Classification ECU
 O10 Occupant Classification ECU
 O11 Occupant Classification Sensor Front RH
 O12 Occupant Classification Sensor Rear RH
 O13 Occupant Classification Sensor Front LH
 O14 Occupant Classification Sensor Rear LH

P 28 Power Seat Control SW
 (Driver's Seat Lumbar Support Control)
 P 29 Power Seat Motor
 (Driver's Seat Lumbar Support Control)

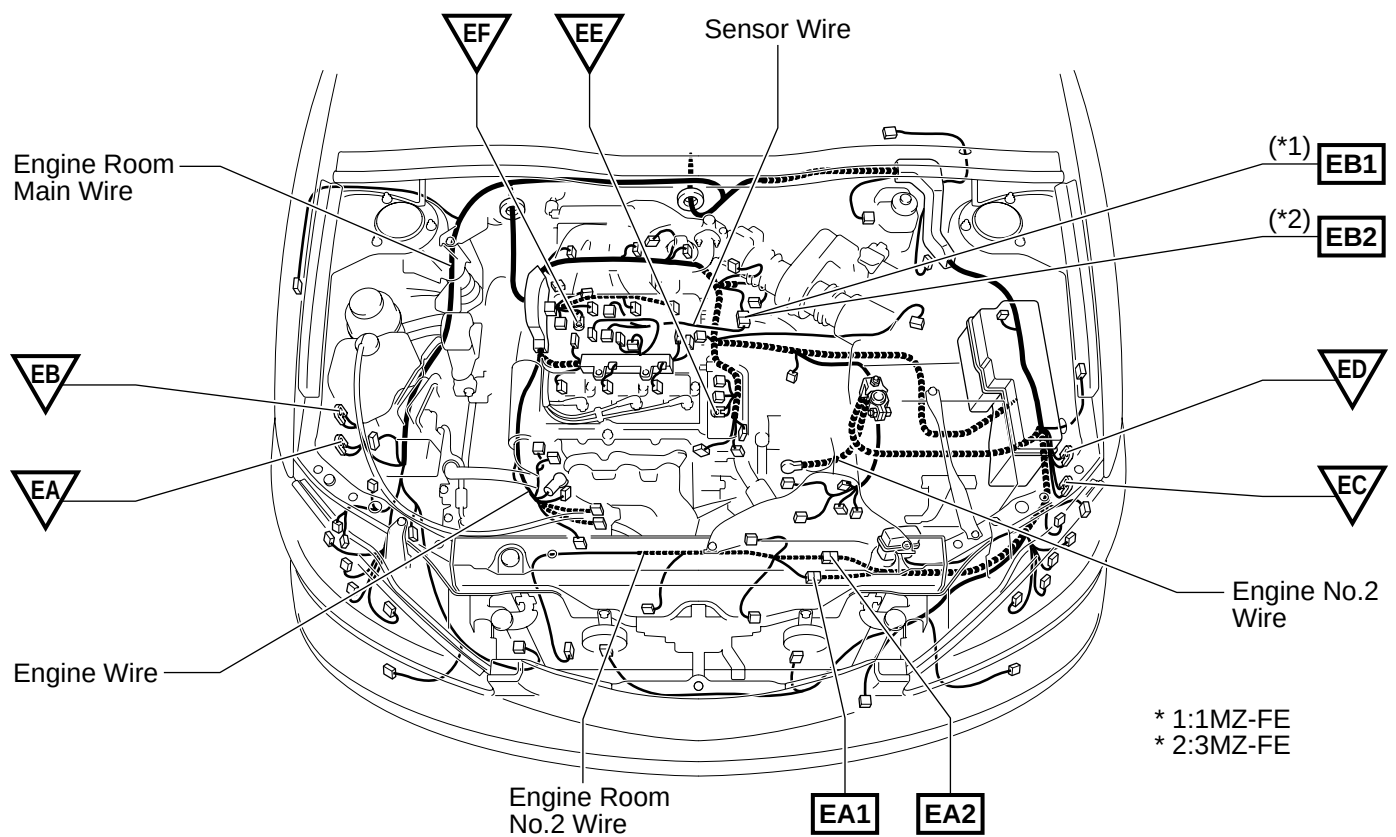
S18 Seat Heater RH
 S19 Side Airbag Squib LH
 S20 Side Airbag Squib RH

G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

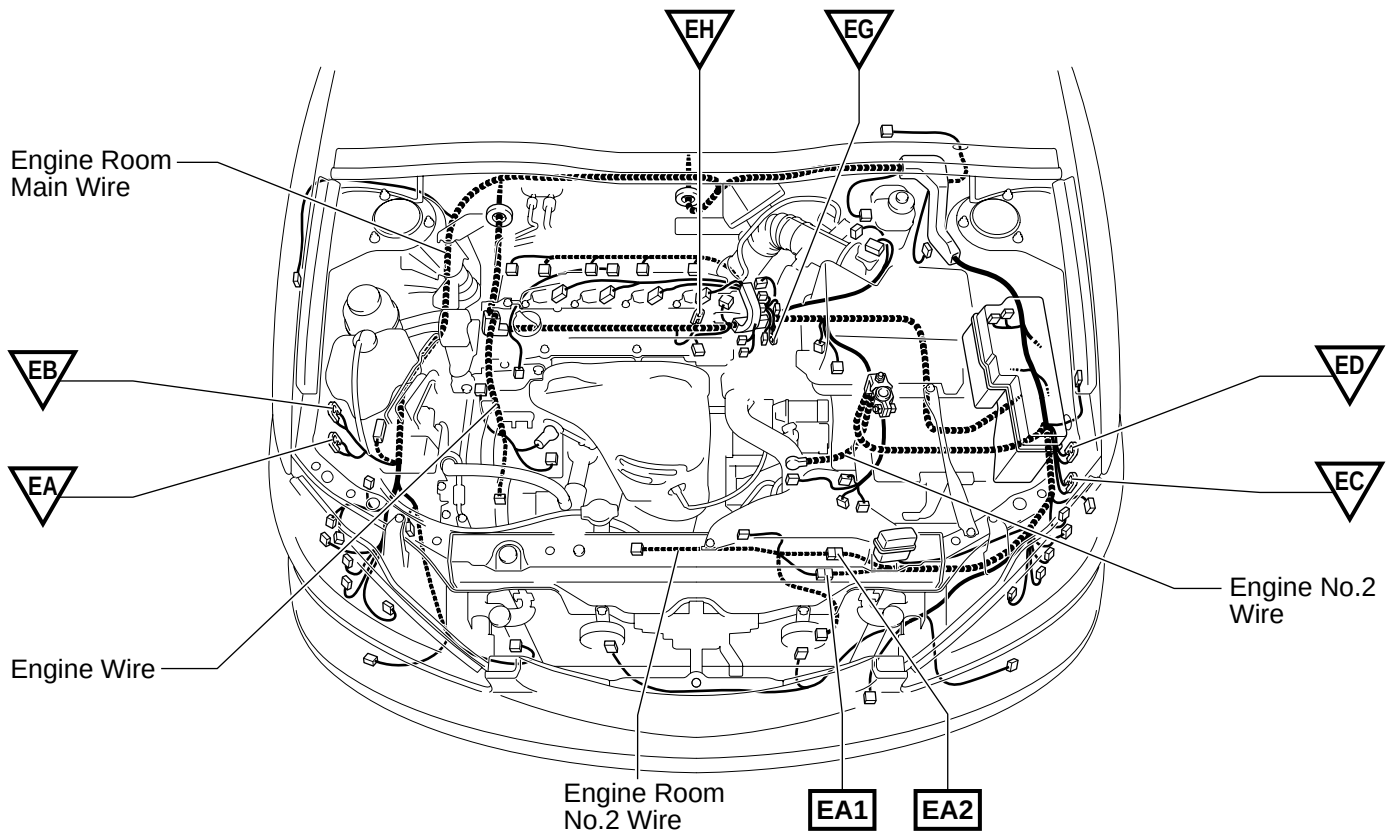
[1MZ-FE, 3MZ-FE]



□ : Location of Connector Joining Wire Harness and Wire Harness

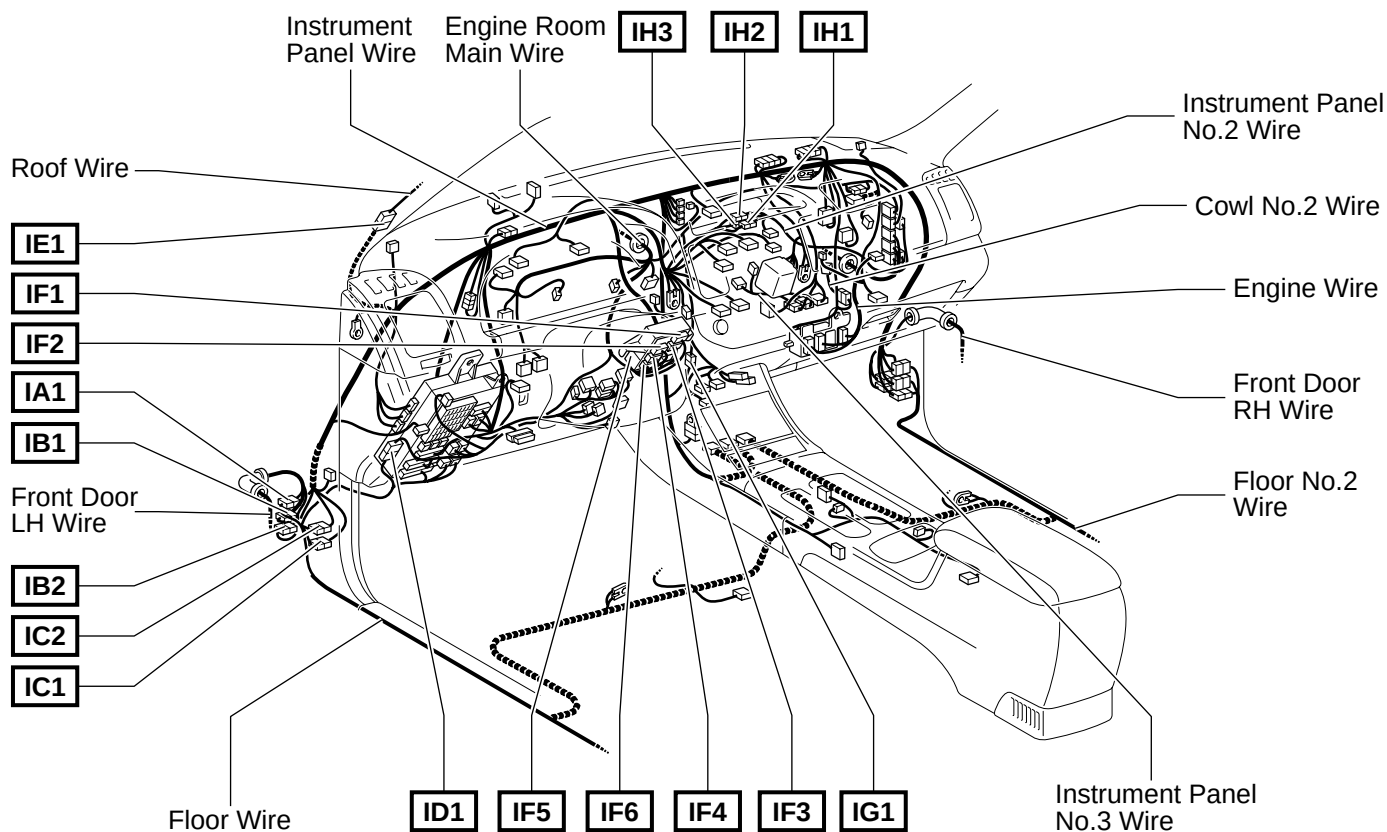
▽ : Location of Ground Points

[2AZ-FE]

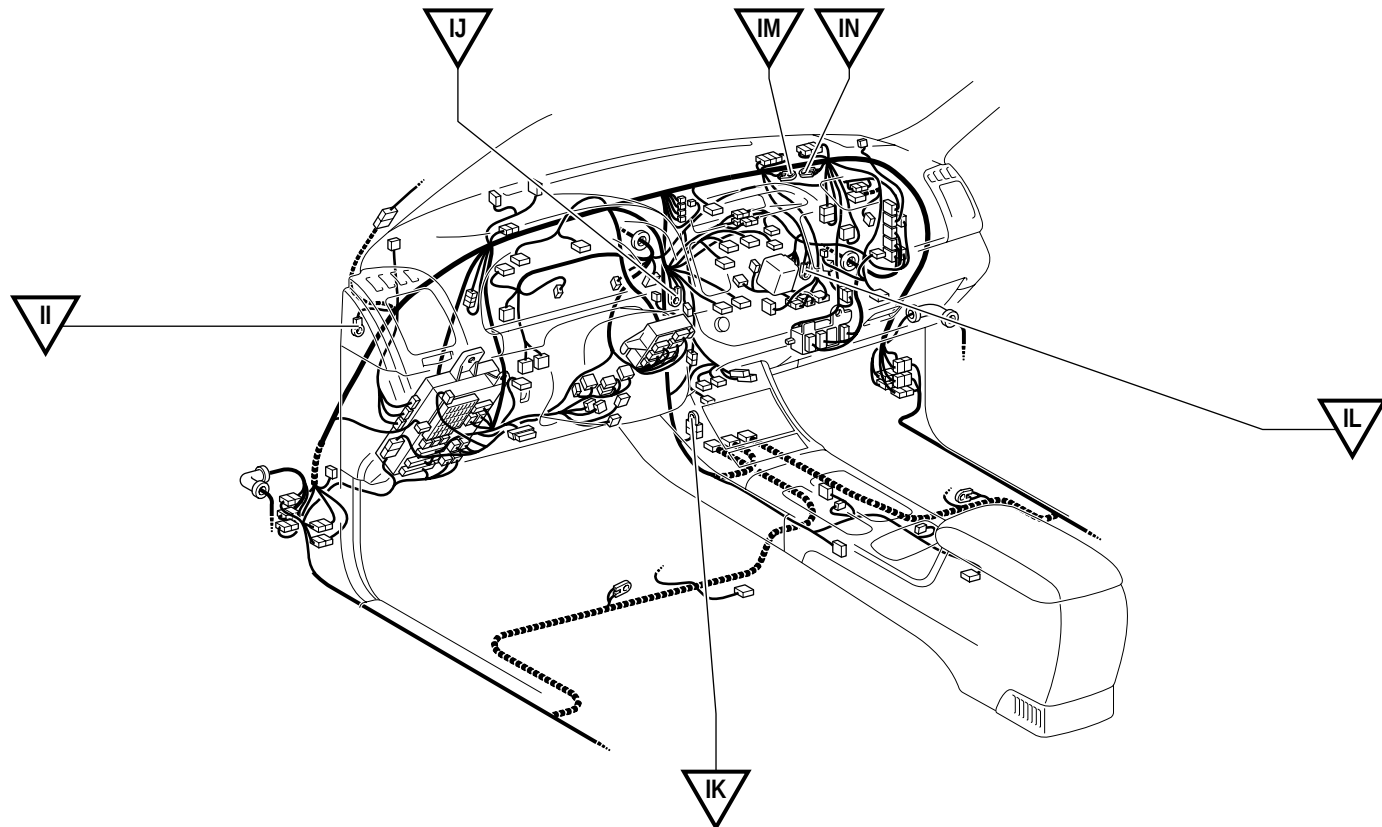


G ELECTRICAL WIRING ROUTING

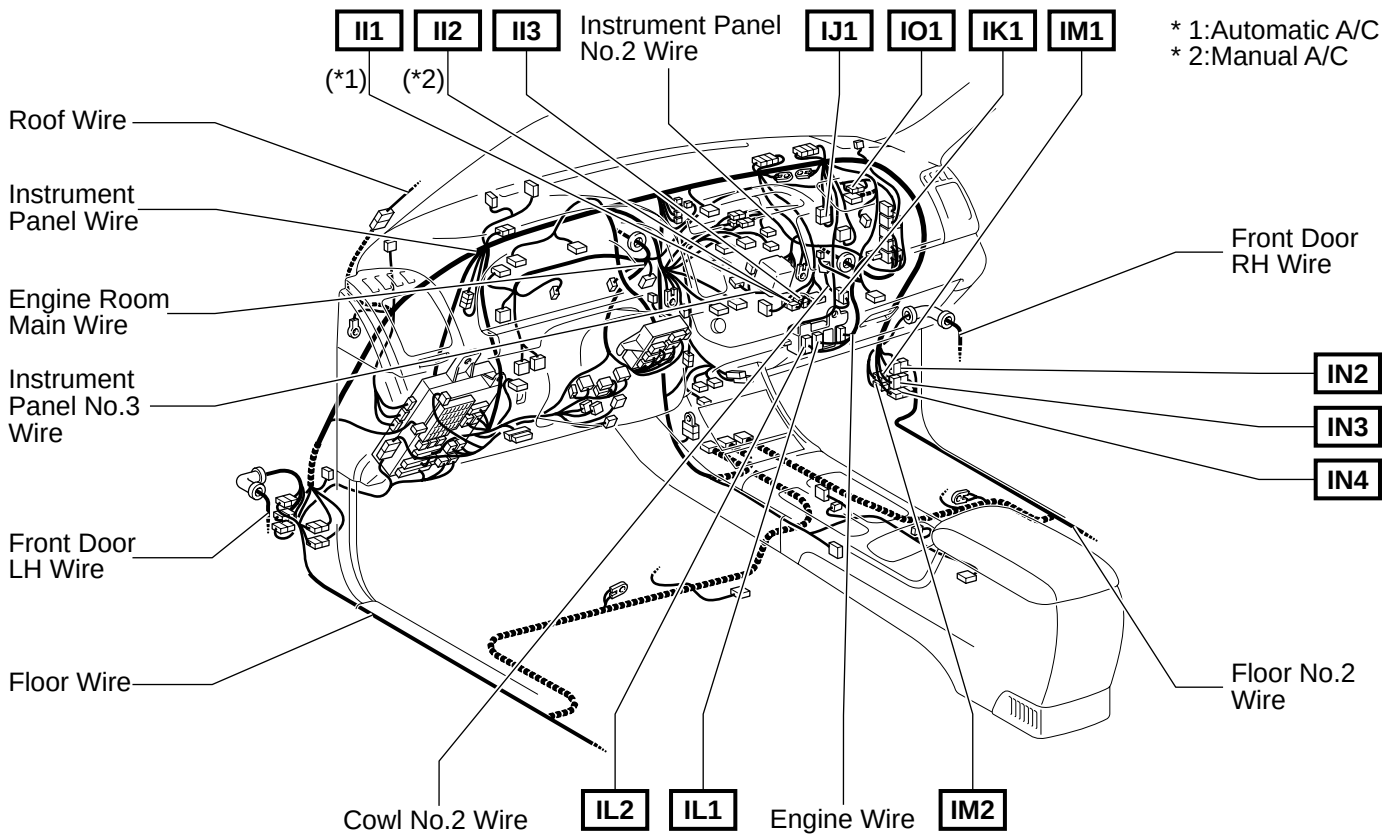
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points



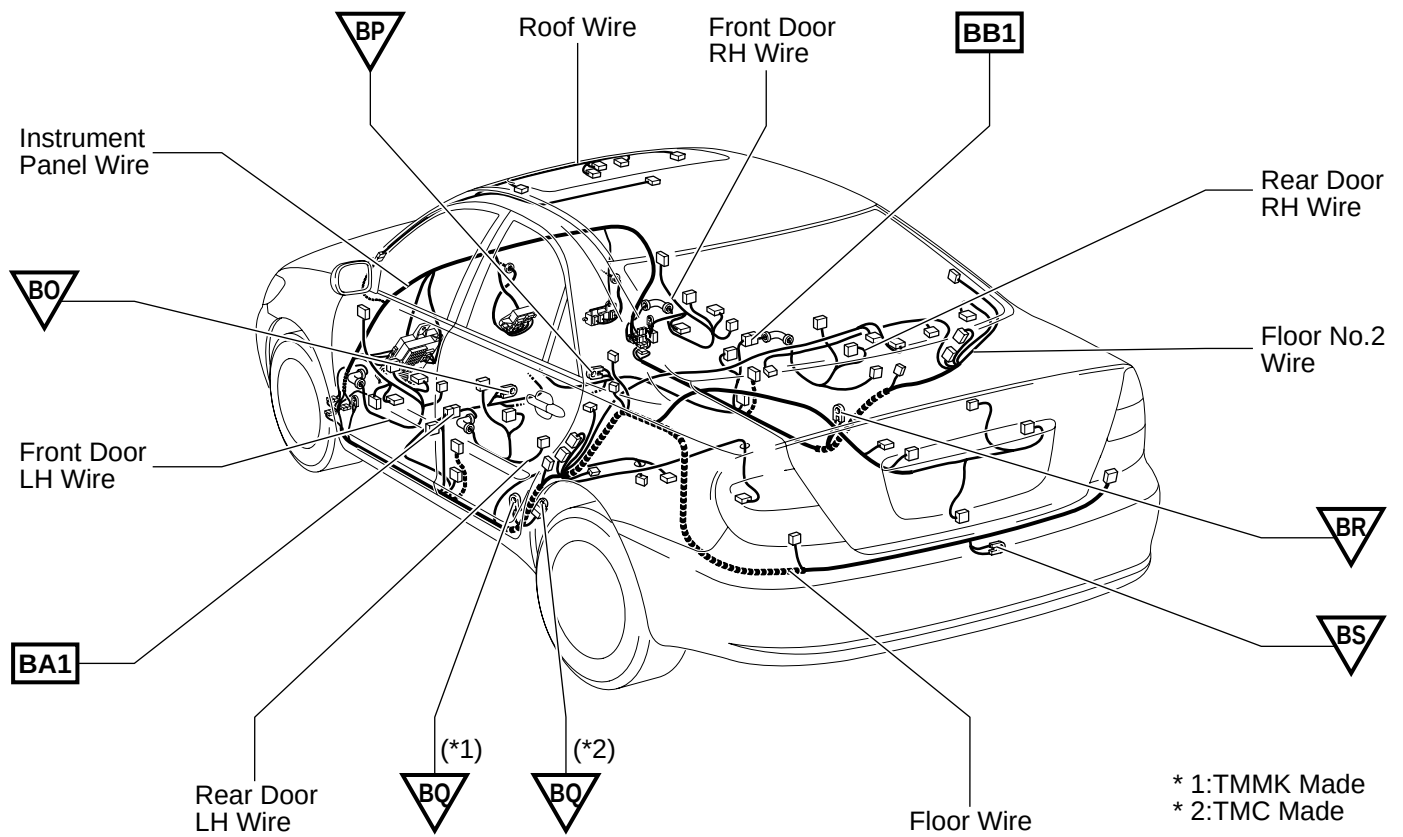
□ : Location of Connector Joining Wire Harness and Wire Harness



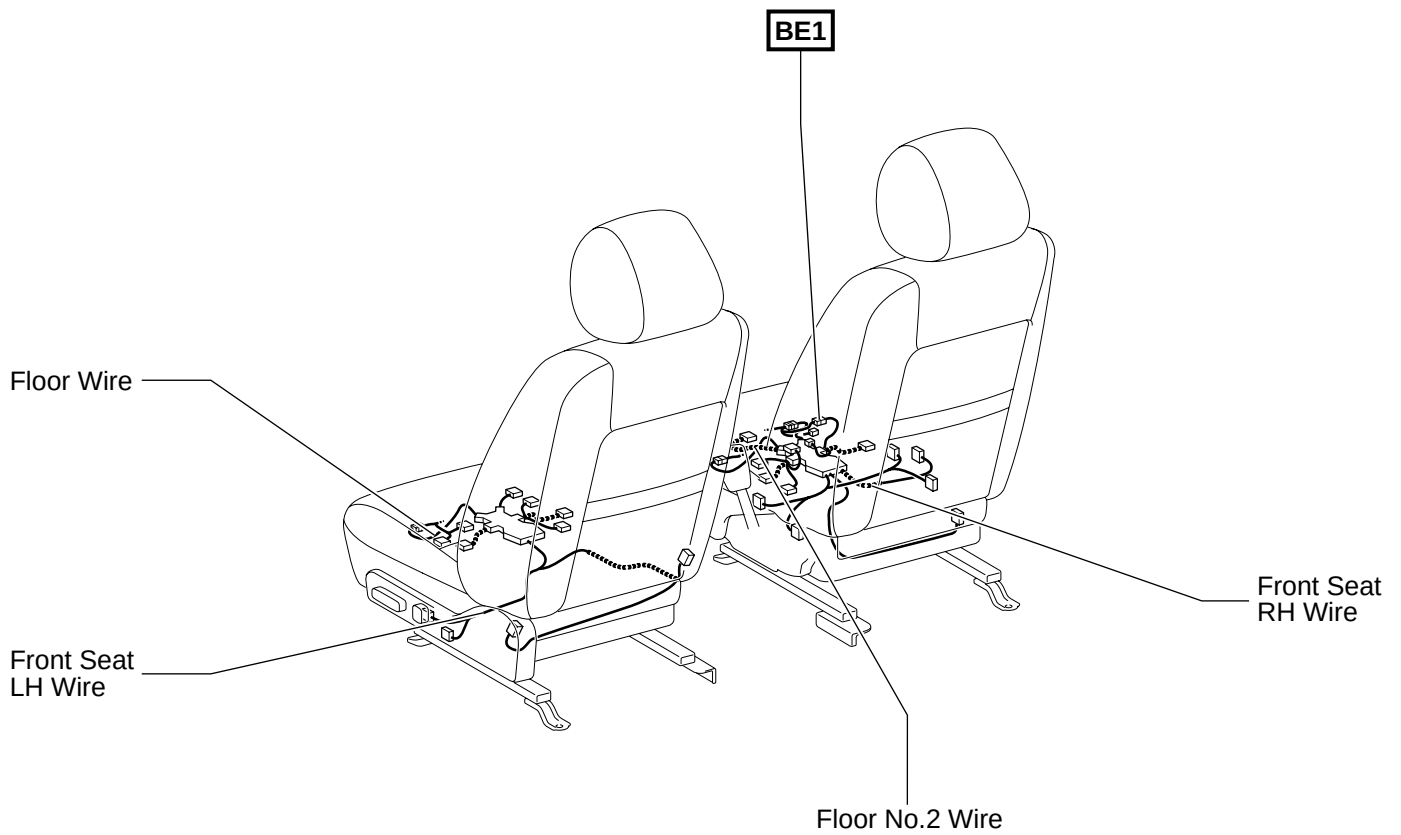
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points



 : Location of Connector Joining Wire Harness and Wire Harness
[w/ Power Seat]



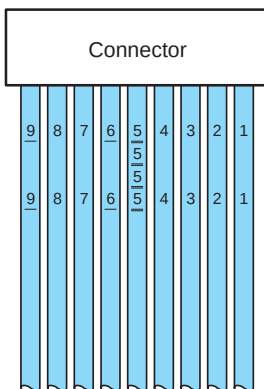
2006 CAMRY

ELECTRICAL WIRING DIAGRAM

SYSTEM CIRCUITS

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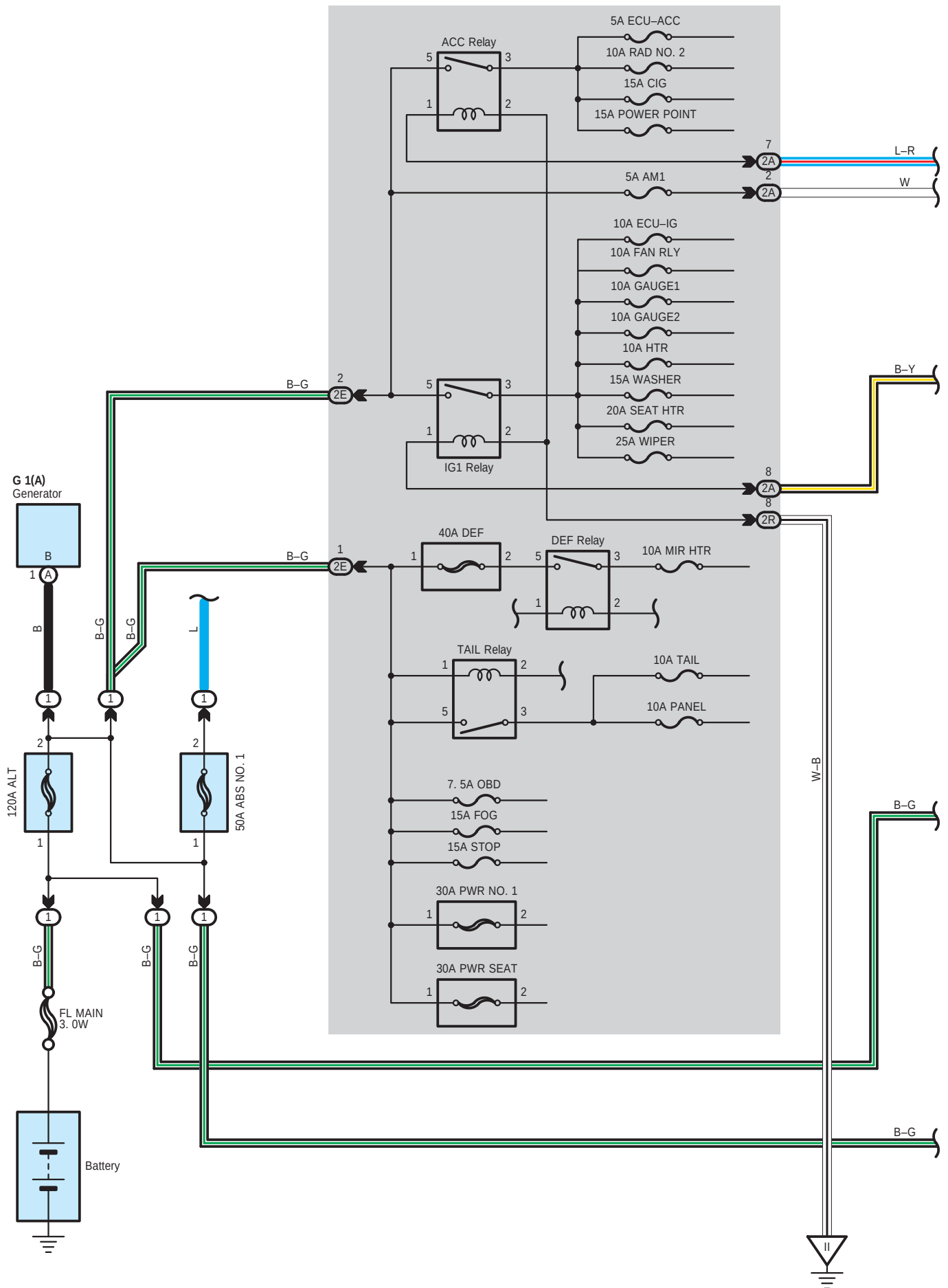
There are two types of wire harness for the instrument panel on CAMRY.

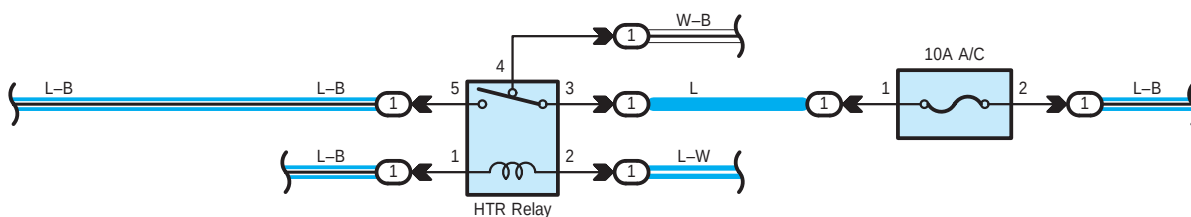
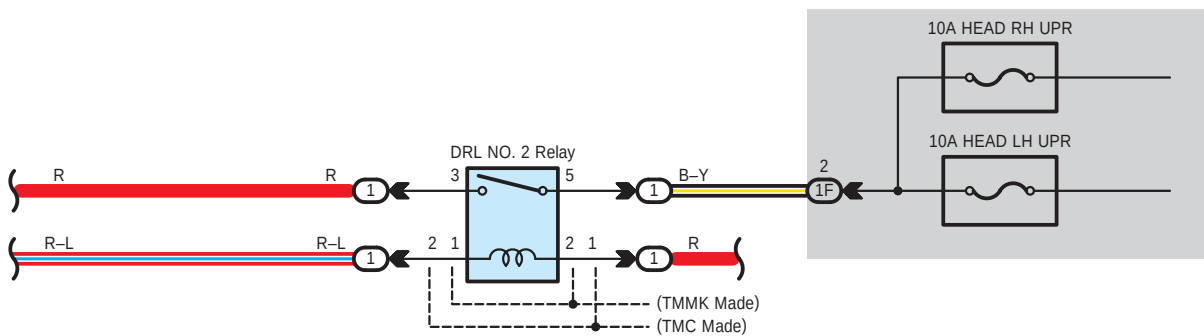
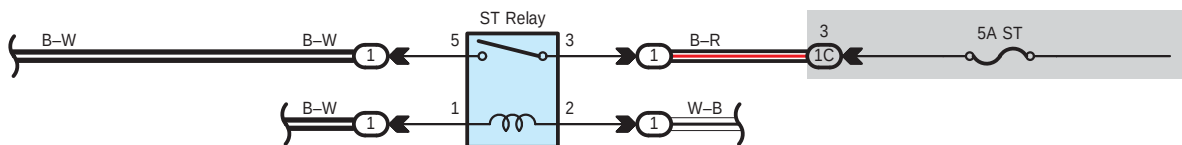
Type A : The wire harness that uses the color-coded wire.

Type B : The wire harness that uses the same colored wire. (Not color-coded)

In case of using the same colored wires, each terminal number is printed on the wire as shown in the illustration on the left in order to distinguish each wiring.

Be sure to connect the terminal to the same place as indicated by the terminal number printed on the wire after disconnecting the terminal from the connector.





 : Parts Location

Code		See Page	Code		See Page	Code		See Page
G1	A	38 (*1)	G1	A	40 (*2)	I15	43	

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1D		
1E		
1F		
1G		
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

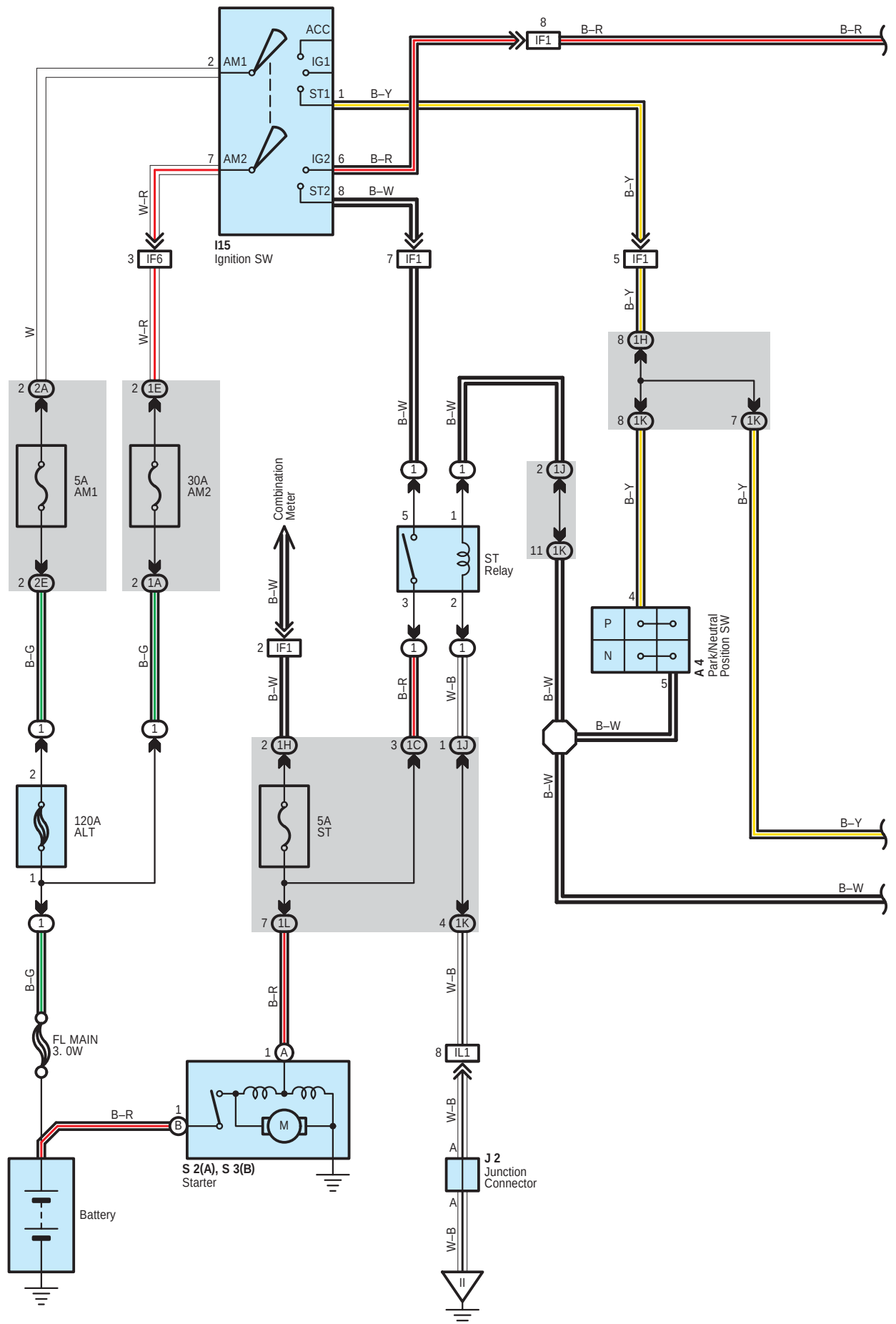
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		

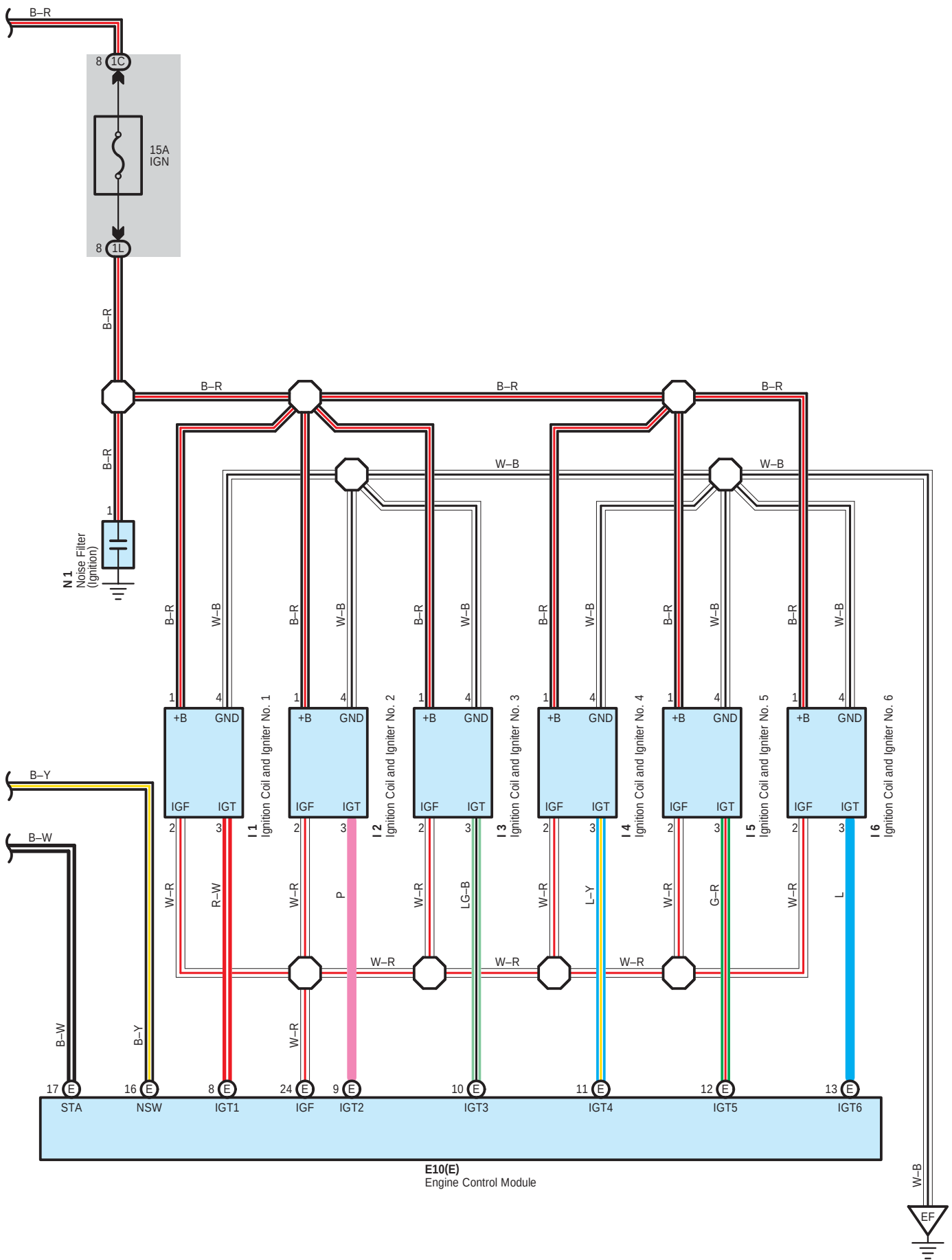
 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Starting and Ignition for 1MZ-FE and 3MZ-FE





Starting and Ignition for 1MZ-FE and 3MZ-FE

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	I4	39 (*1)	N1	39 (*1)
E10	E 42	I5	39 (*1)	S2	A 39 (*1)
I1	39 (*1)	I6	39 (*1)	S3	B 39 (*1)
I2	39 (*1)	I15	43		
I3	39 (*1)	J2	43		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1H		
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
1L		
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

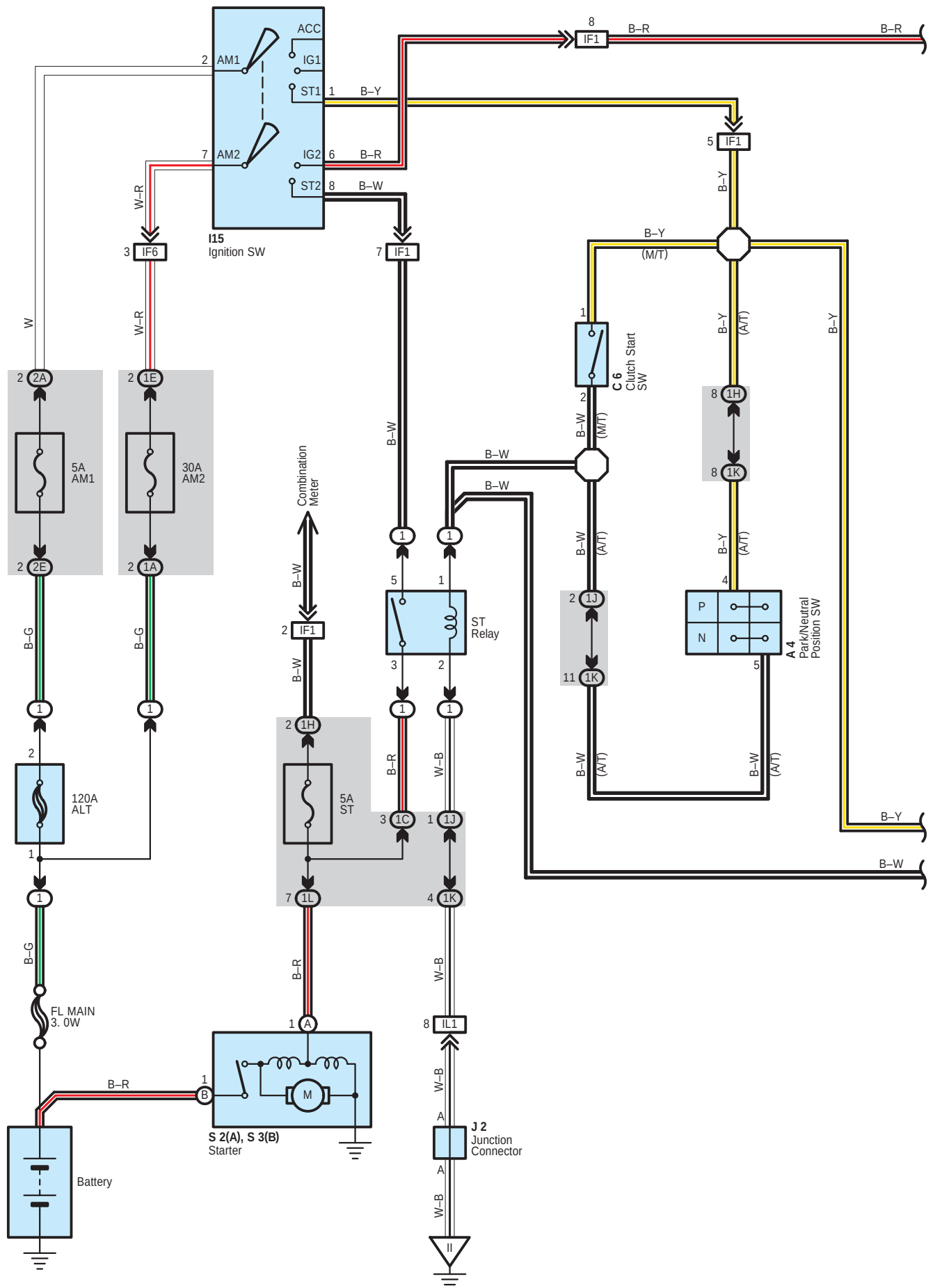
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

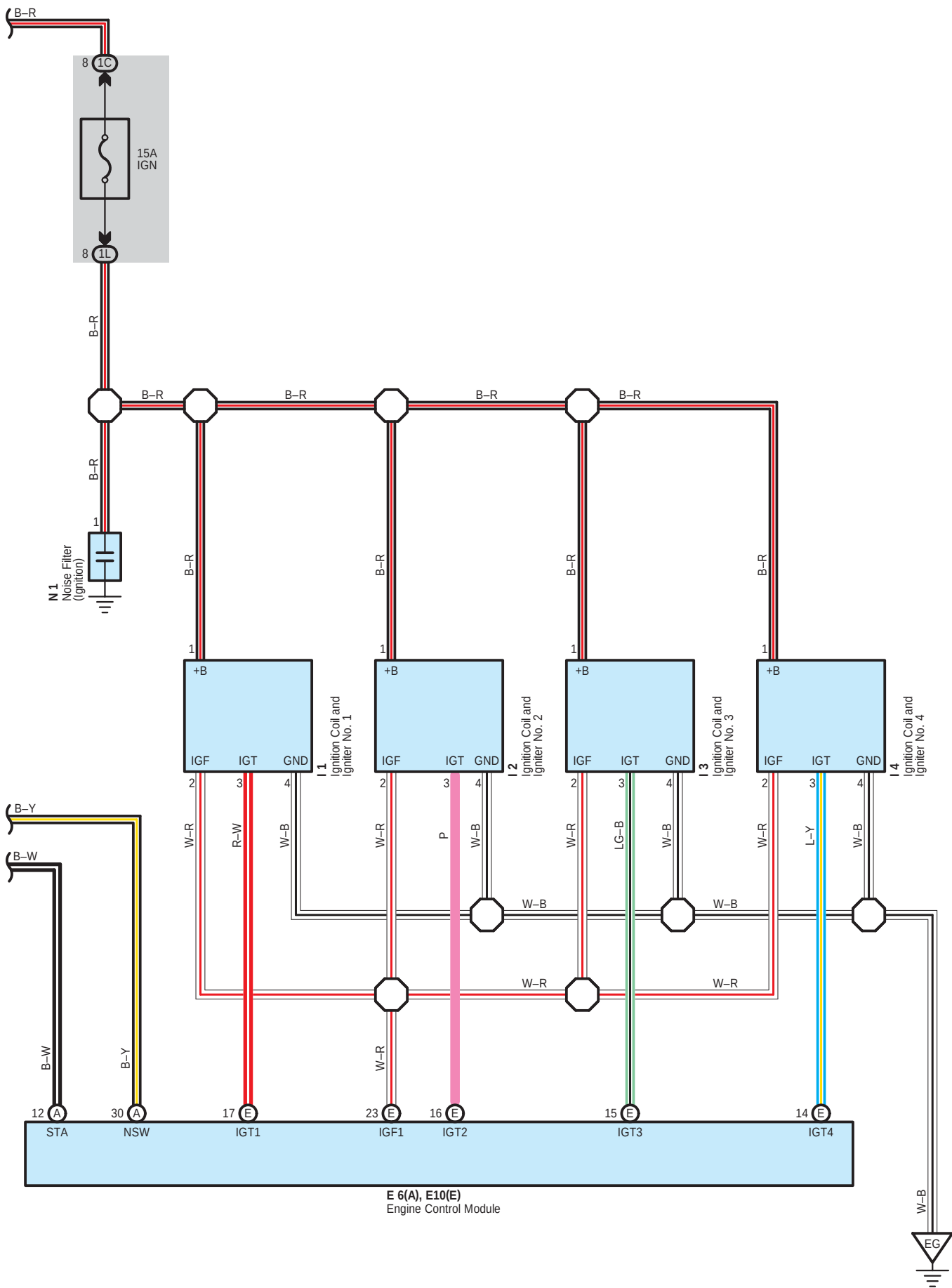
: Ground Points

Code	See Page	Ground Points Location
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Starting and Ignition for 2AZ-FE





Starting and Ignition for 2AZ-FE

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	40 (*2)	I2	41 (*2)	N1	41 (*2)
C6	42	I3	41 (*2)	S2	A 41 (*2)
E6	A 42	I4	41 (*2)	S3	B 41 (*2)
E10	E 42	I15	43		
I1	41 (*2)	J2	43		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1H		
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
1L		
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

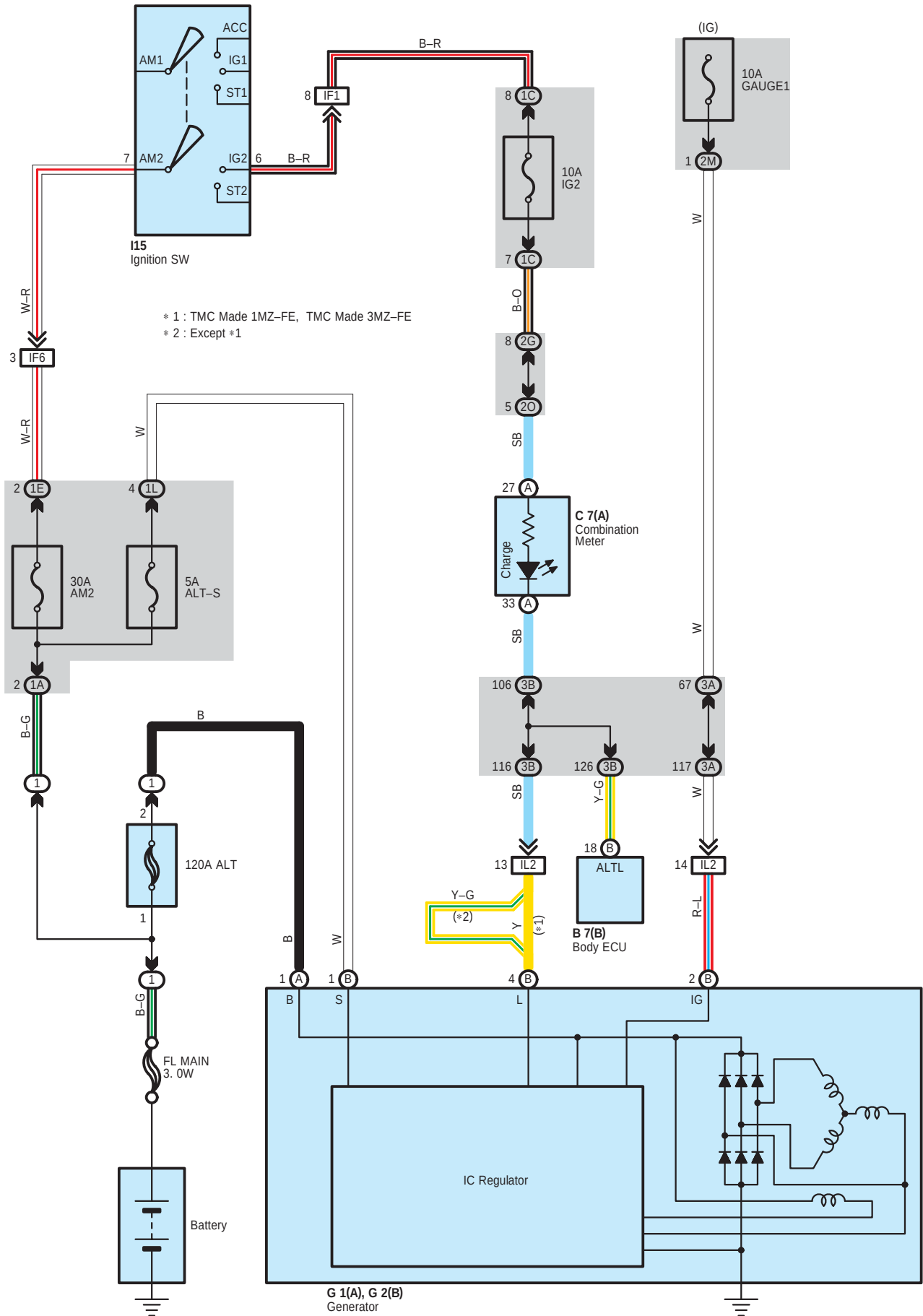
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EG	49 (*2)	Left Side of Cylinder Head
II	50	Cowl Side Panel LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Charging



 : Parts Location

Code		See Page	Code		See Page	Code	See Page
B7	B	42	G1	A	40 (*2)	I15	43
C7	A	42	G2	B	38 (*1)		
G1	A	38 (*1)			40 (*2)		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

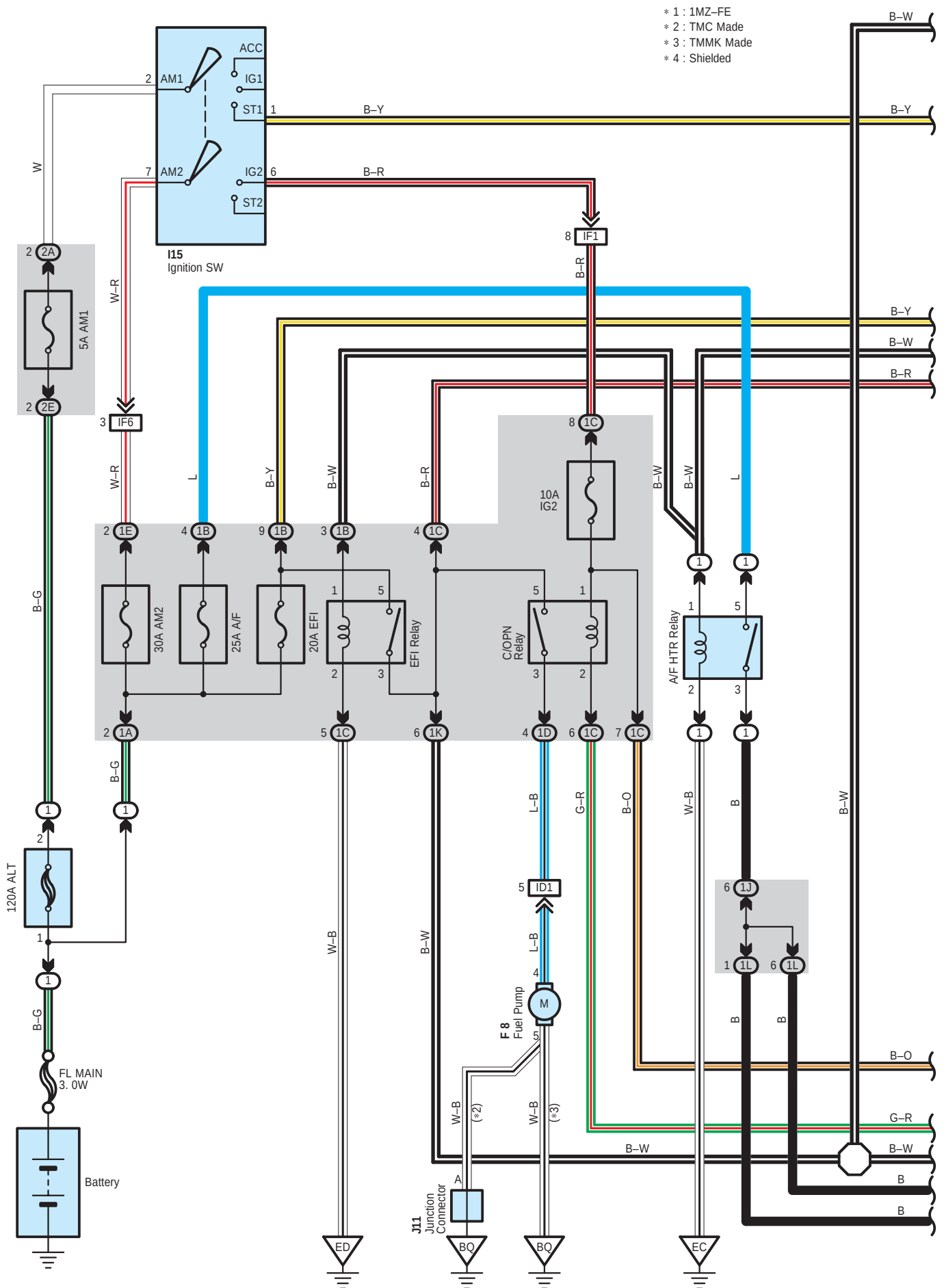
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2O		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

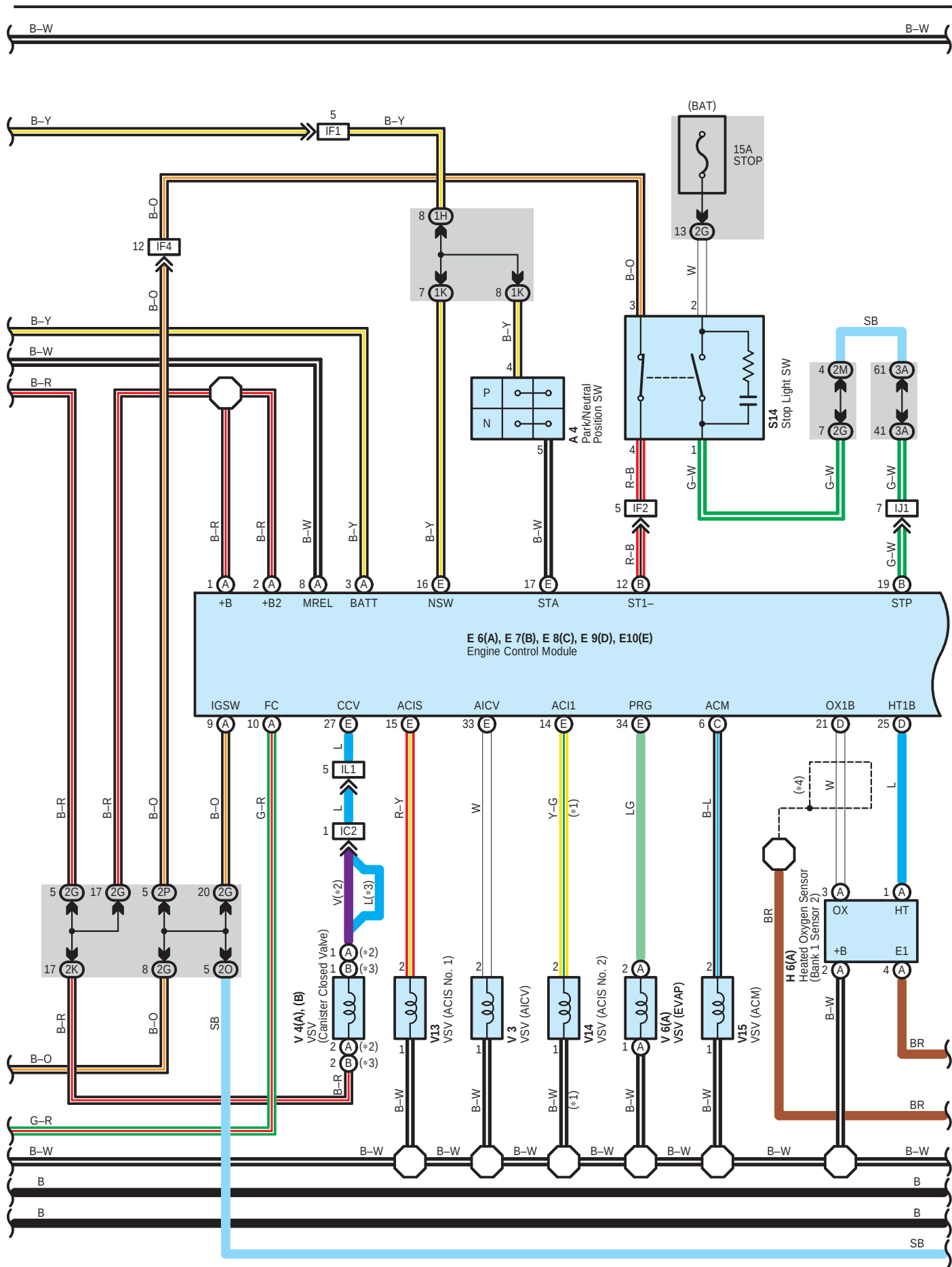
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		
IL2	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

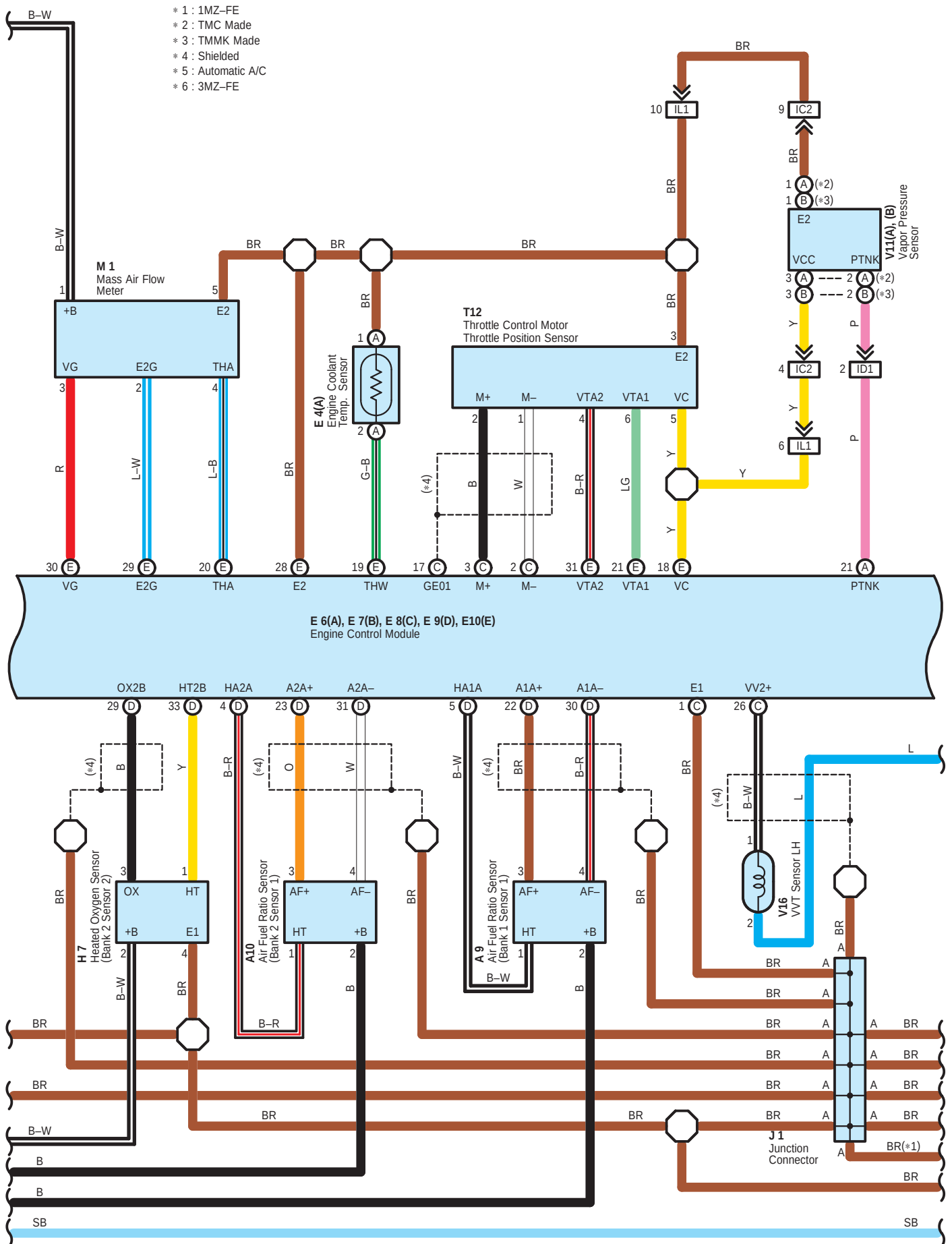
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

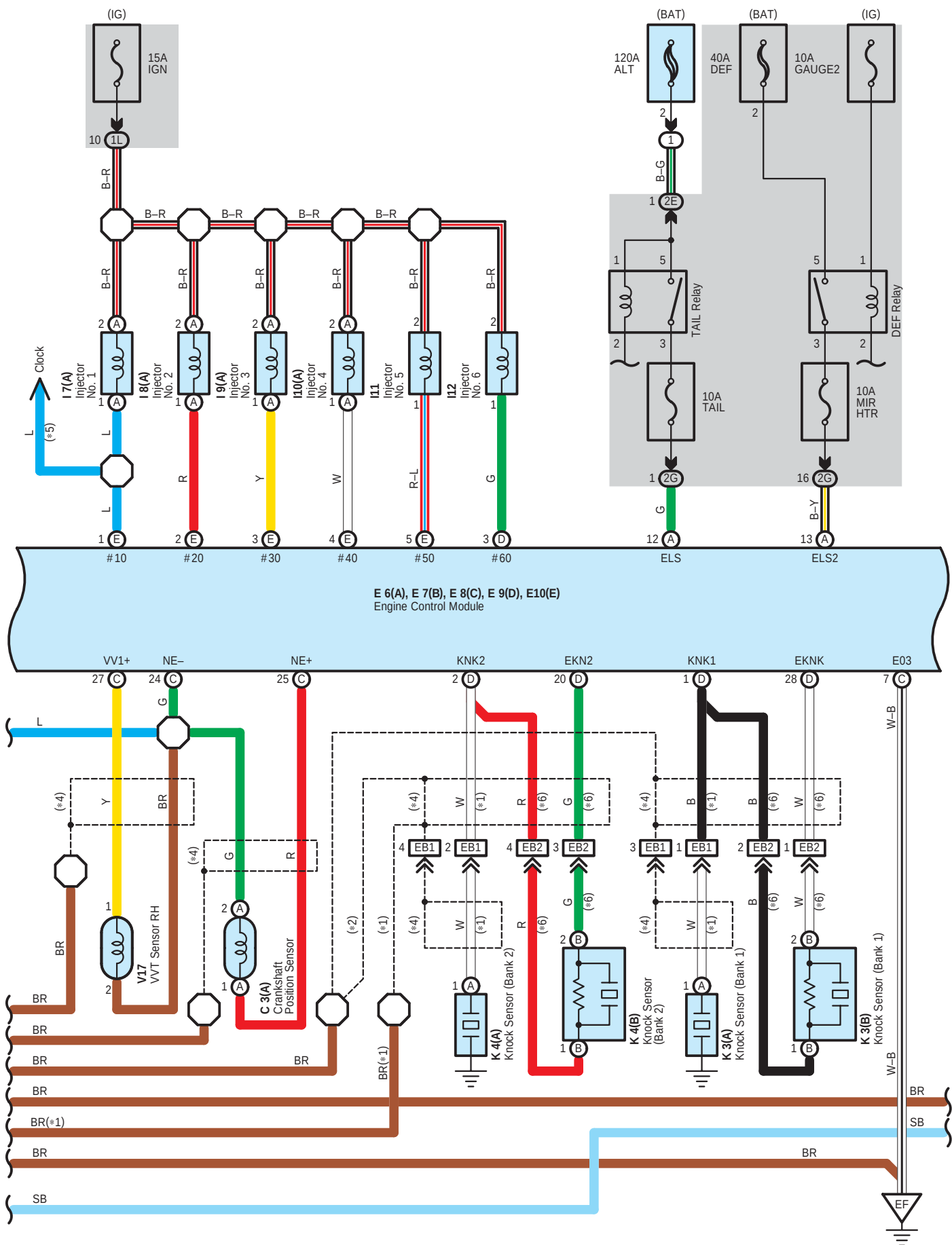
Engine Control for 1MZ-FE and 3MZ-FE



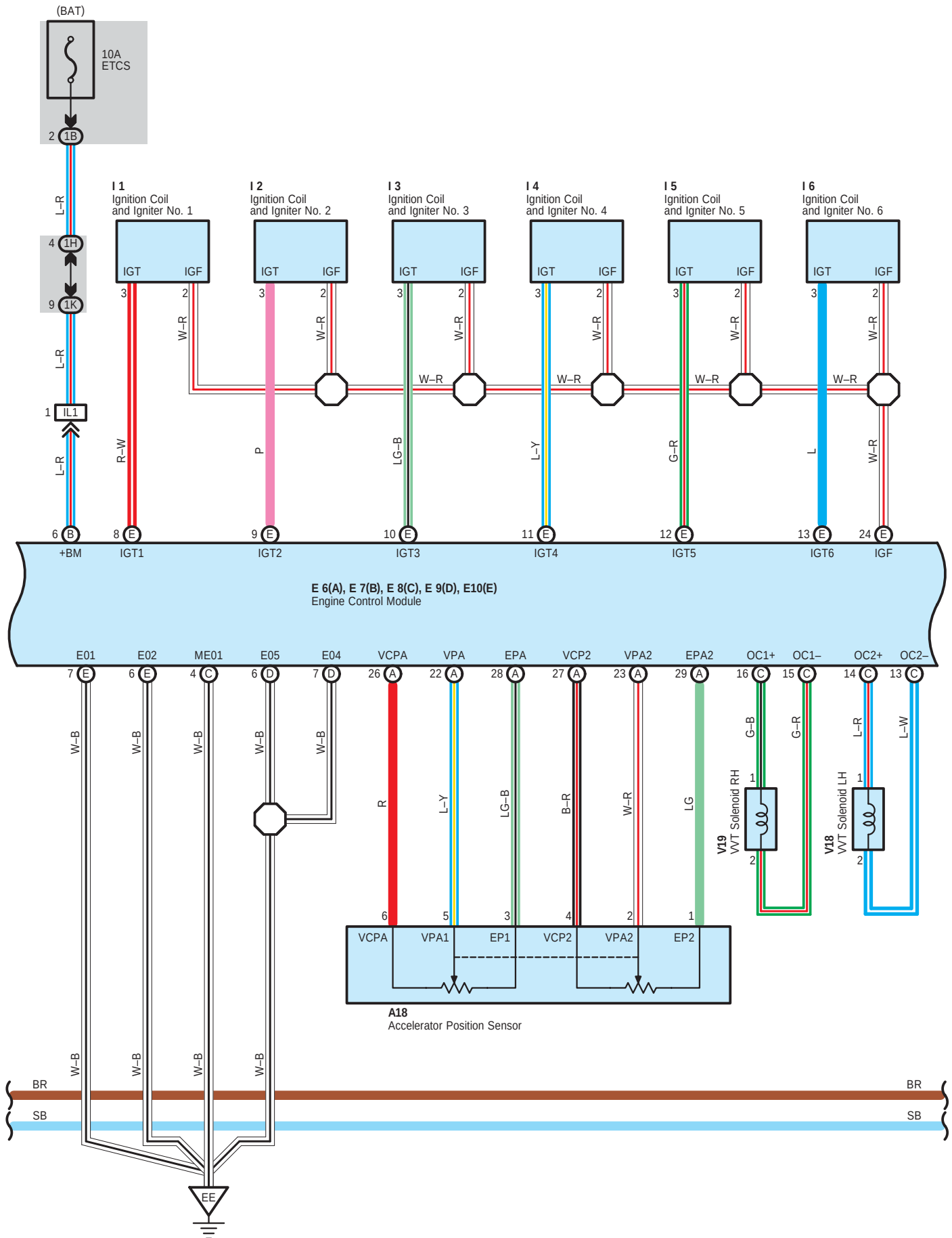


Engine Control for 1MZ-FE and 3MZ-FE

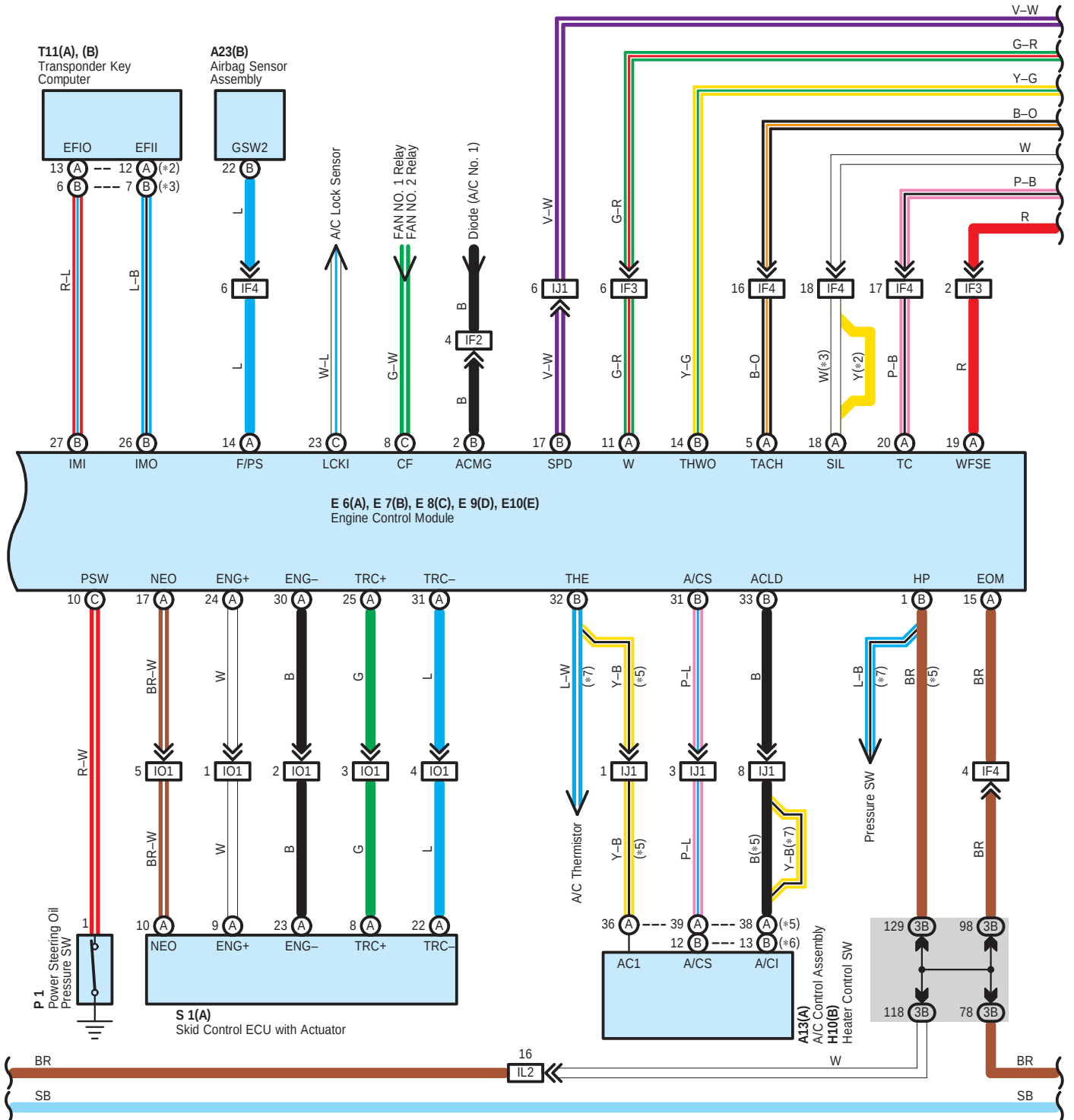




Engine Control for 1MZ-FE and 3MZ-FE

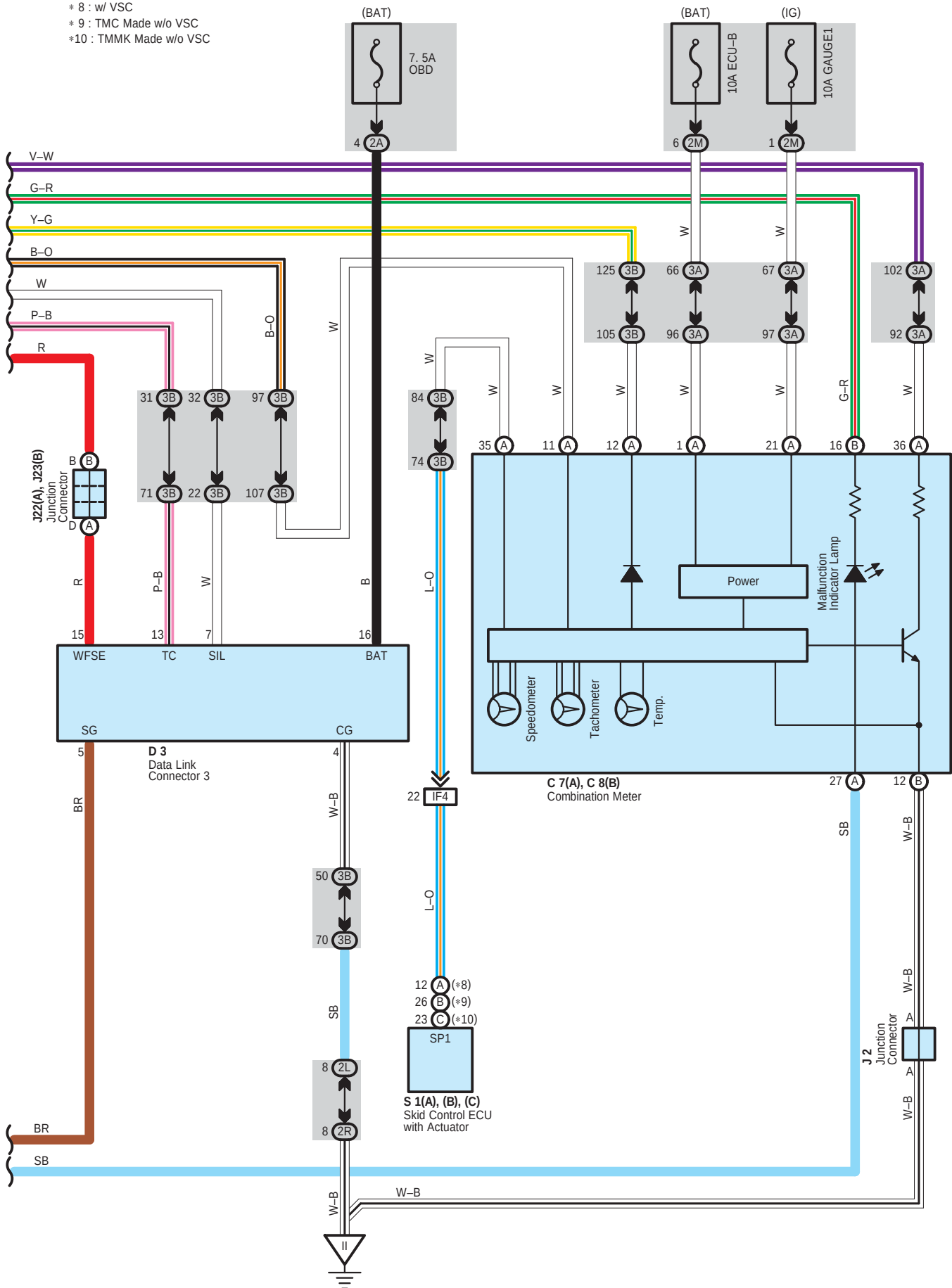


- * 2 : TMC Made
- * 3 : TMMK Made
- * 5 : Automatic A/C
- * 7 : Manual A/C



Engine Control for 1MZ-FE and 3MZ-FE

- * 8 : w/ VSC
- * 9 : TMC Made w/o VSC
- *10 : TMMK Made w/o VSC



System Outline

This system utilizes an engine control module and maintains overall control of the engine, transmission and so on. An outline of the engine control is explained 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 water 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 into TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust gases is detected and input as a control signal into TERMINALS OX1B and OX2B of the engine control module. To maintain stable detection performance by the heated oxygen sensor, a heater is used for warming the sensor. The heater is also controlled by the engine control module (HT1B and HT2B).

(4) Throttle 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.

(5) Vehicle speed signal circuit

The vehicle speed sensor, detects the vehicle speed and input to ABS speed sensor of the skid control ECU with actuator, from skid control ECU with actuator to TERMINAL SPD of the engine control module, Via combination meter.

(6) Park/Neutral position SW signal circuit

The Park/Neutral position SW detects whether the shift position is in neutral, parking or not, and inputs a control signal into TERMINAL NSW of the engine control module.

(7) A/C SW signal circuit

The A/C control assembly (Automatic A/C) or heater control SW (Manual A/C) inputs the A/C operations into TERMINAL A/CS of the engine control module as a control signal.

(8) Battery signal circuit

Voltage is always supplies to TERMINAL BATT of the engine control module.

If you turn on the ignition SW, the current goes from TERMINAL MREL of the engine control module to the EFI relay and put on the relay, and the voltage related to the engine control module operation is supplied to TERMINALS +B and +B2 of the engine control module through the EFI relay.

(9) Intake air volume signal circuit

Intake air volume is detected by the mass air flow meter and a signal is input into TERMINAL VG 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 during cranking is detected and the signal 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 sensor No.1 and No.2, then the signals are 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.

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals, which are input from each sensor to engine control module. The best fuel injection volume is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30, #40, #50 and #60 of the engine control module to operate the injector (Inject the fuel). The SFI system produces control of 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, which are 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, IGT4, IGT5 and IGT6. This signal controls the igniter to provide the best ignition timing for the driving conditions.

* 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 emissions is low), and warms up the heated oxygen sensor to improve detection performance of the sensor.

The engine control module evaluates the signals from each sensor, current is output to TERMINALS HT1B and HT2B, controlling 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

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.

The engine control module judges the engine speed by the signals from each sensor and outputs current to the TERMINAL ACIS to control the VSV (ACIS No.1).

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.

4. Fail-Safe System

When a malfunction occurs in any systems, 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
A4	38 (*1)	I3	39 (*1)	S1	A 39 (*1)
A9	38 (*1)	I4	39 (*1)		B 39 (*1)
A10	38 (*1)	I5	39 (*1)		C 39 (*1)
A13	A 42	I6	39 (*1)	S14	43
A18	42	I7	A 39 (*1)	T11	A 43
A23	B 42	I8	A 39 (*1)		B 43
C3	A 38 (*1)	I9	A 39 (*1)	T12	39 (*1)
C7	A 42	I10	A 39 (*1)	V3	39 (*1)
C8	B 42	I11	39 (*1)	V4	A 45
D3	42	I12	39 (*1)		B 45
E4	A 38 (*1)	I15	43	V6	A 39 (*1)
E6	A 42	J1	43	V11	A 45
E7	B 42	J2	43		B 45
E8	C 42	J11	44	V13	39 (*1)
E9	D 42	J22	A 43	V14	39 (*1)
E10	E 42	J23	B 43	V15	39 (*1)
F8	44	K3	A 39 (*1)	V16	39 (*1)
H6	A 38 (*1)		B 39 (*1)	V17	39 (*1)
H7	38 (*1)	K4	A 39 (*1)	V18	39 (*1)
H10	B 43		B 39 (*1)	V19	39 (*1)
I1	39 (*1)	M1	39 (*1)		
I2	39 (*1)	P1	39 (*1)		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1C		
1D		
1E		
1H		
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
1L		
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Engine Control for 1MZ-FE and 3MZ-FE

: Connector Joining Wire Harness and Wire Harness

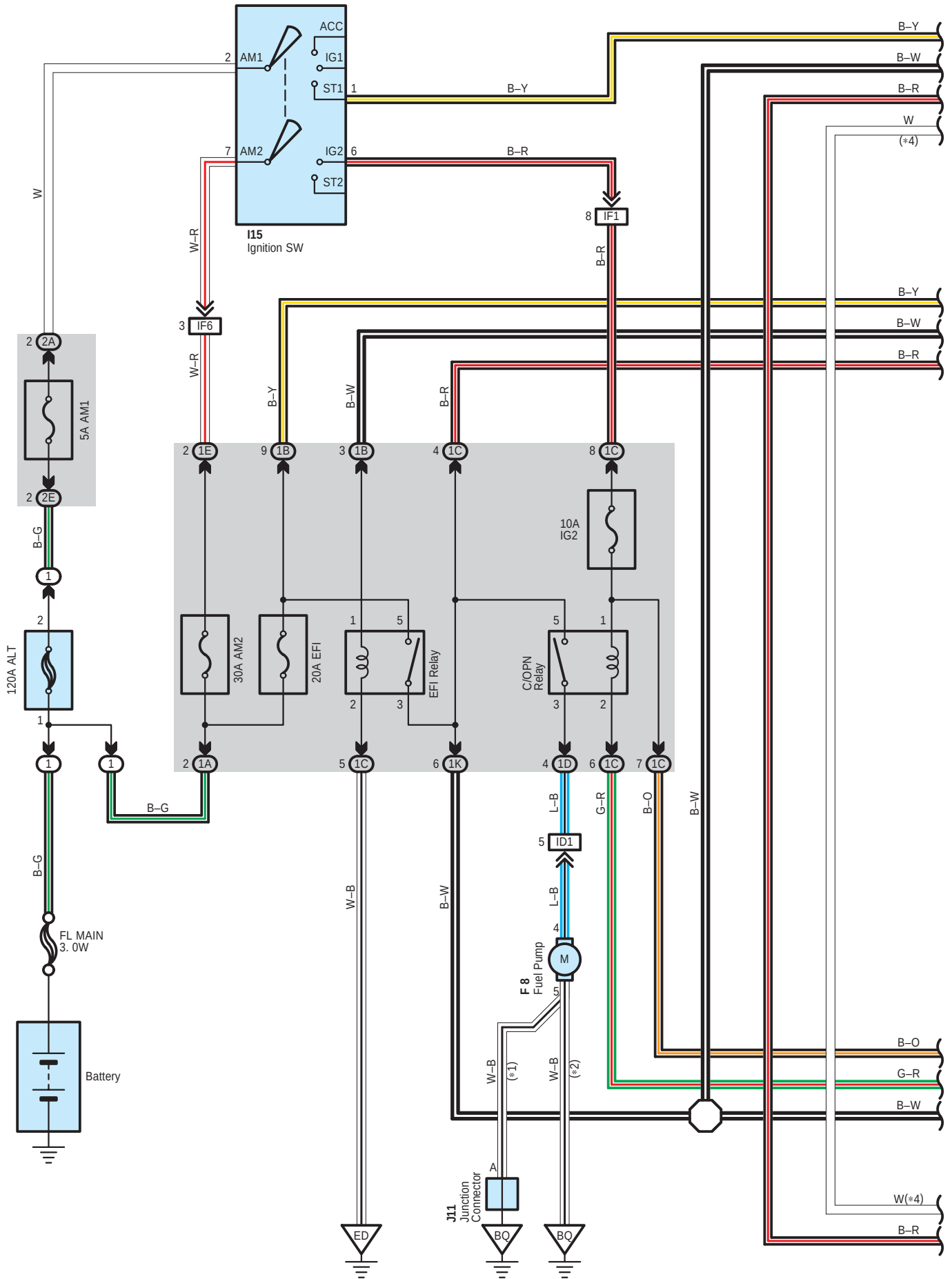
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	48 (1MZ-FE)	Engine Wire and Sensor Wire (Left Bank of Cylinder Head)
EB2	48 (3MZ-FE)	
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF2		
IF3		
IF4		
IF6		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IO1	51	Engine Room Main Wire and Engine Room Main Wire (Right Side of the Instrument Panel)

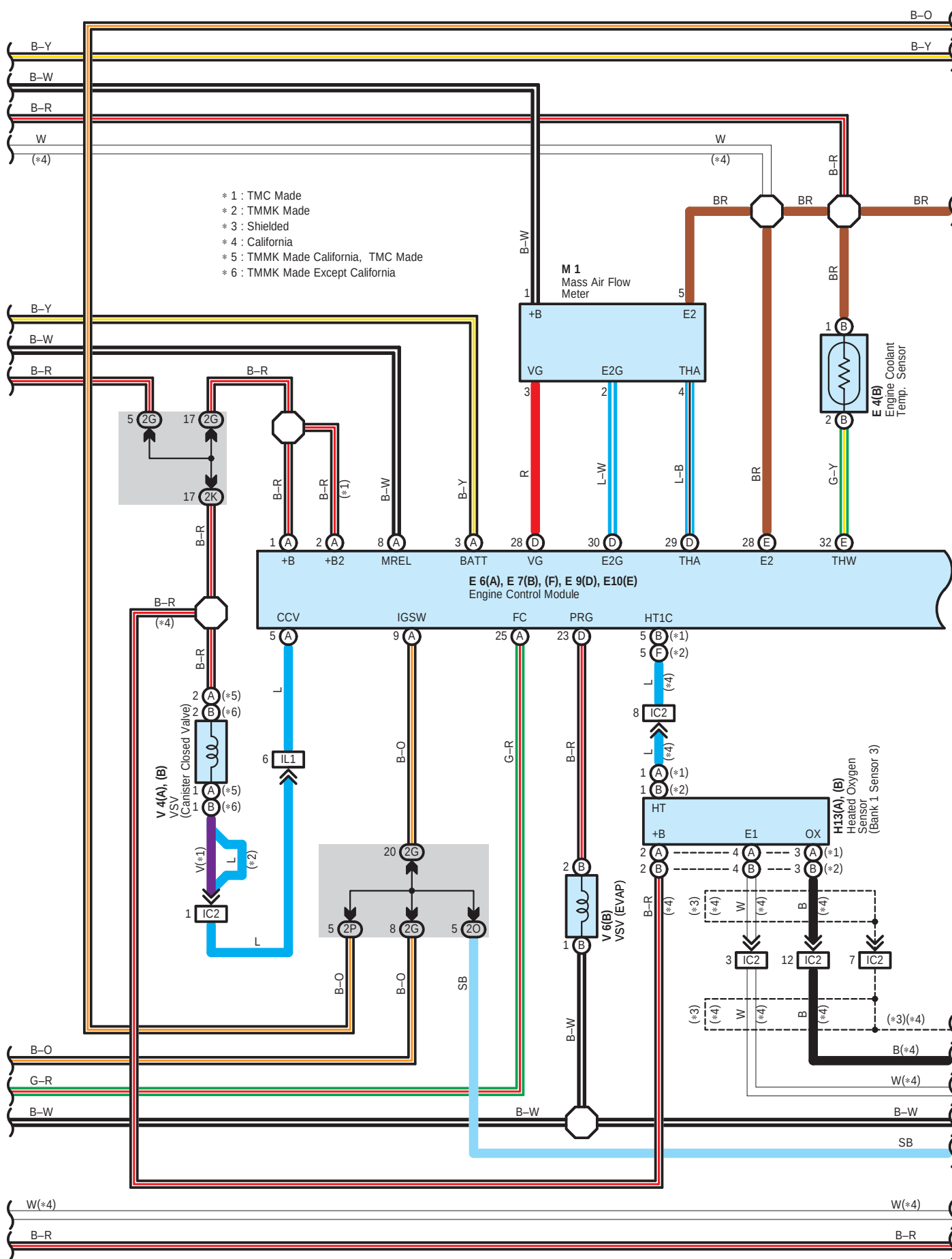
: Ground Points

Code	See Page	Ground Points Location
EC	48 (*1)	Left Fender
ED		
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
BQ	52	Front Side of Rear Quarter Wheel House LH

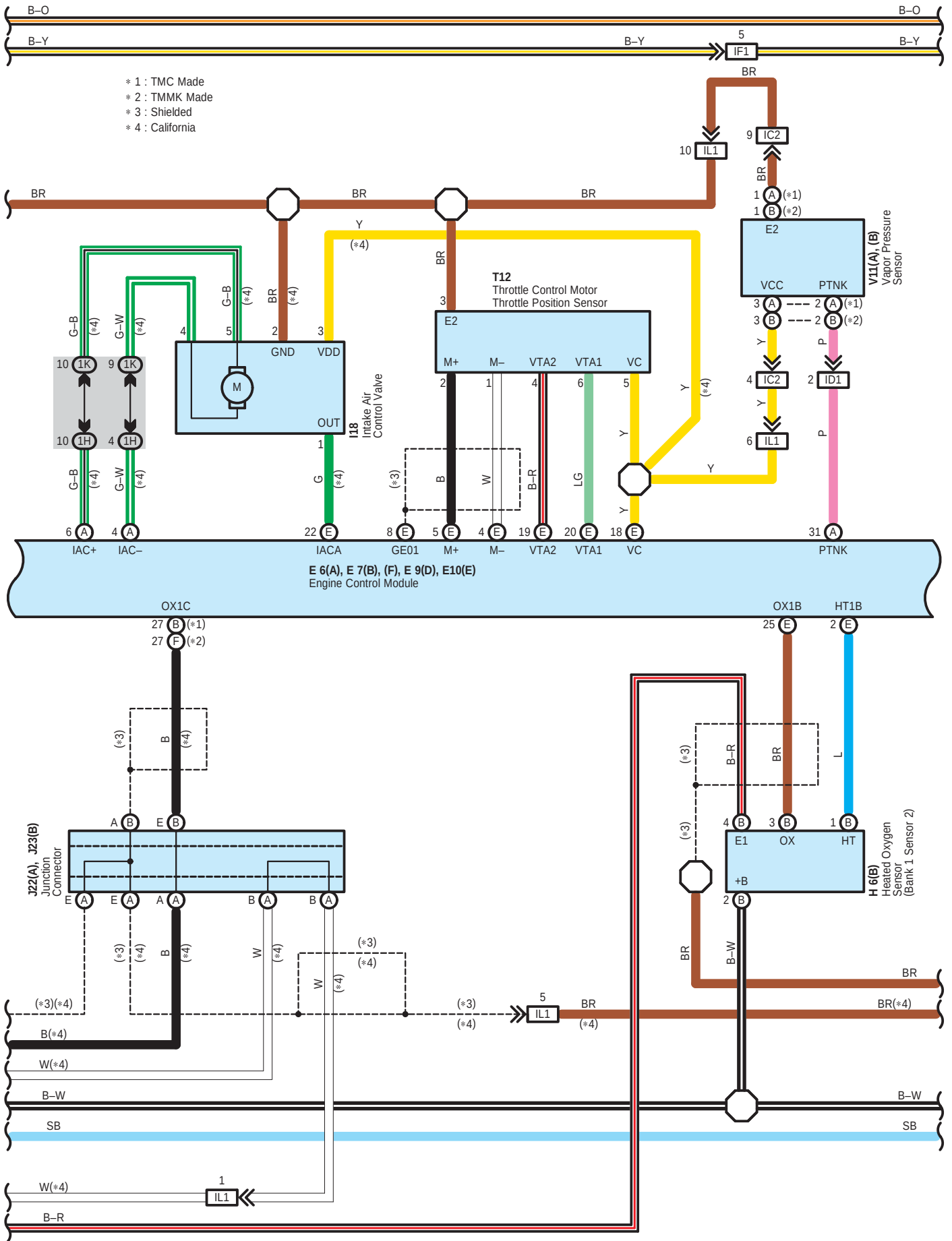
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

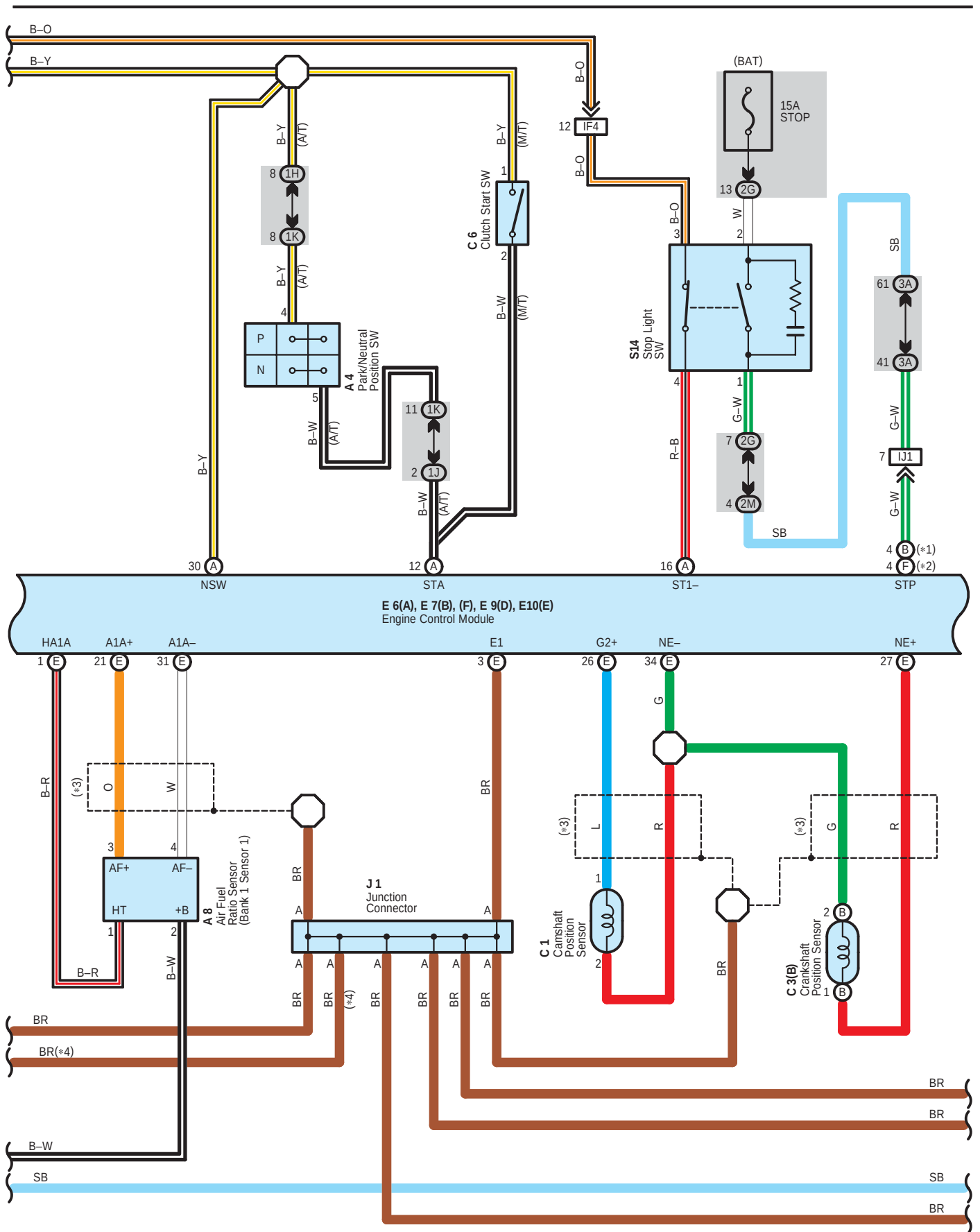
Engine Control for 2AZ-FE



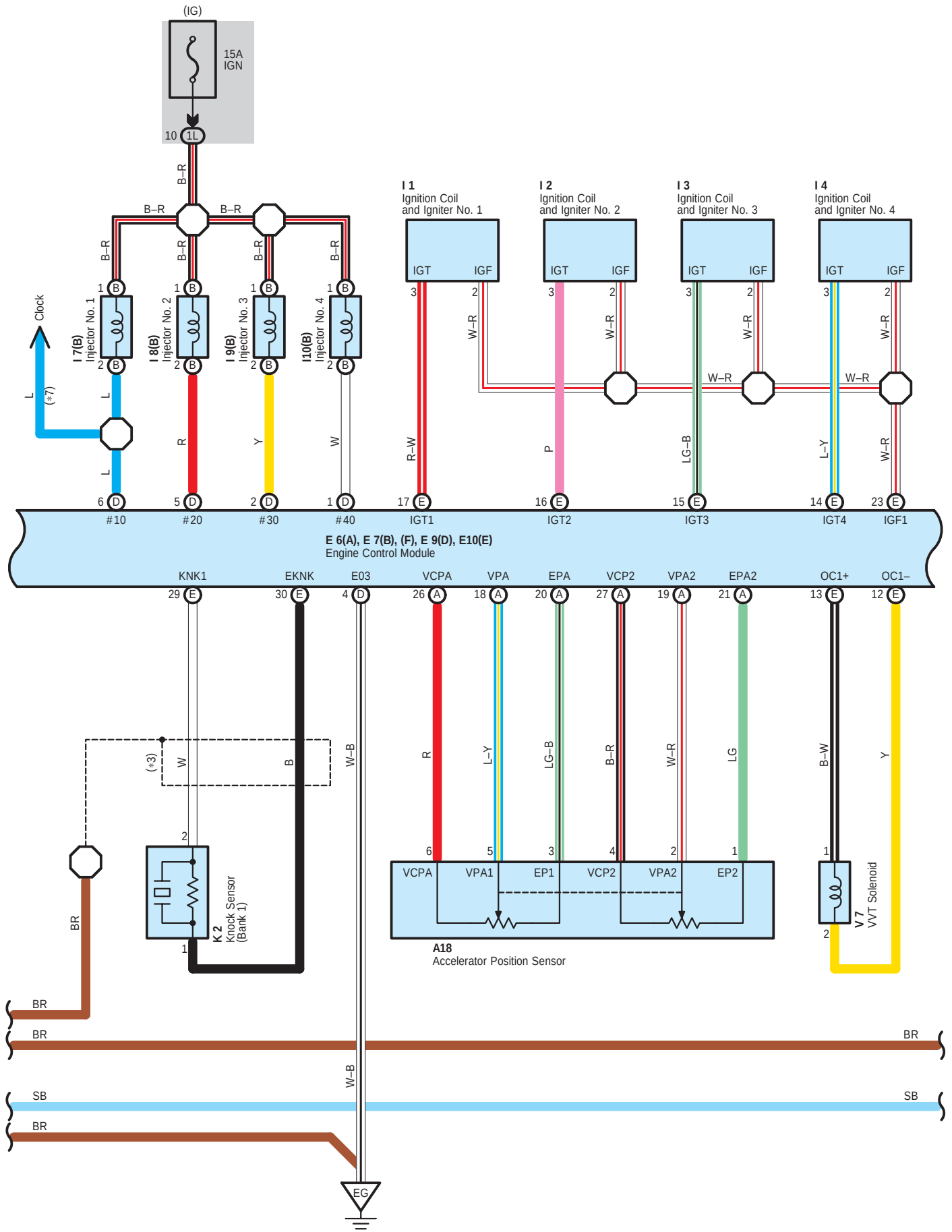


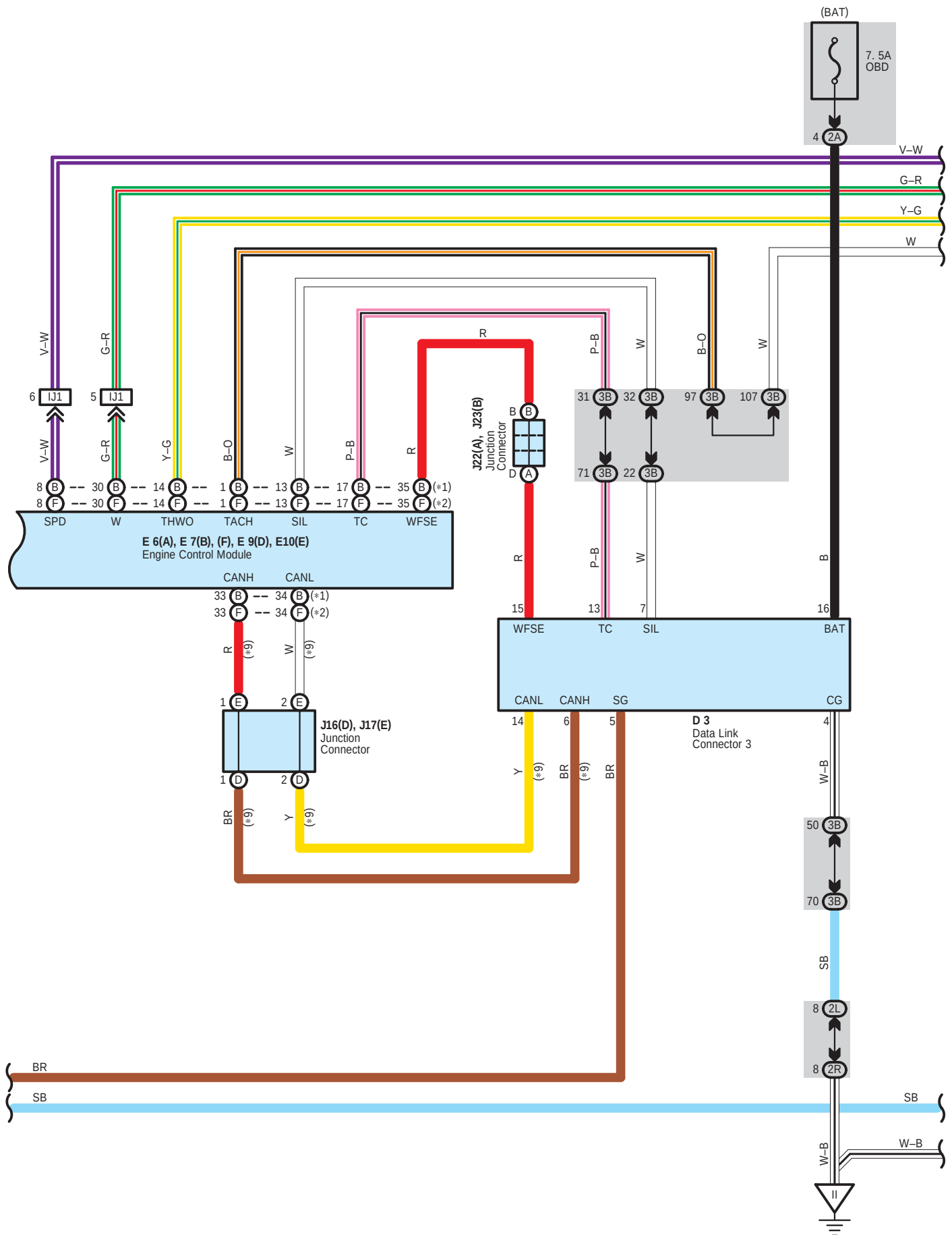
Engine Control for 2AZ-FE



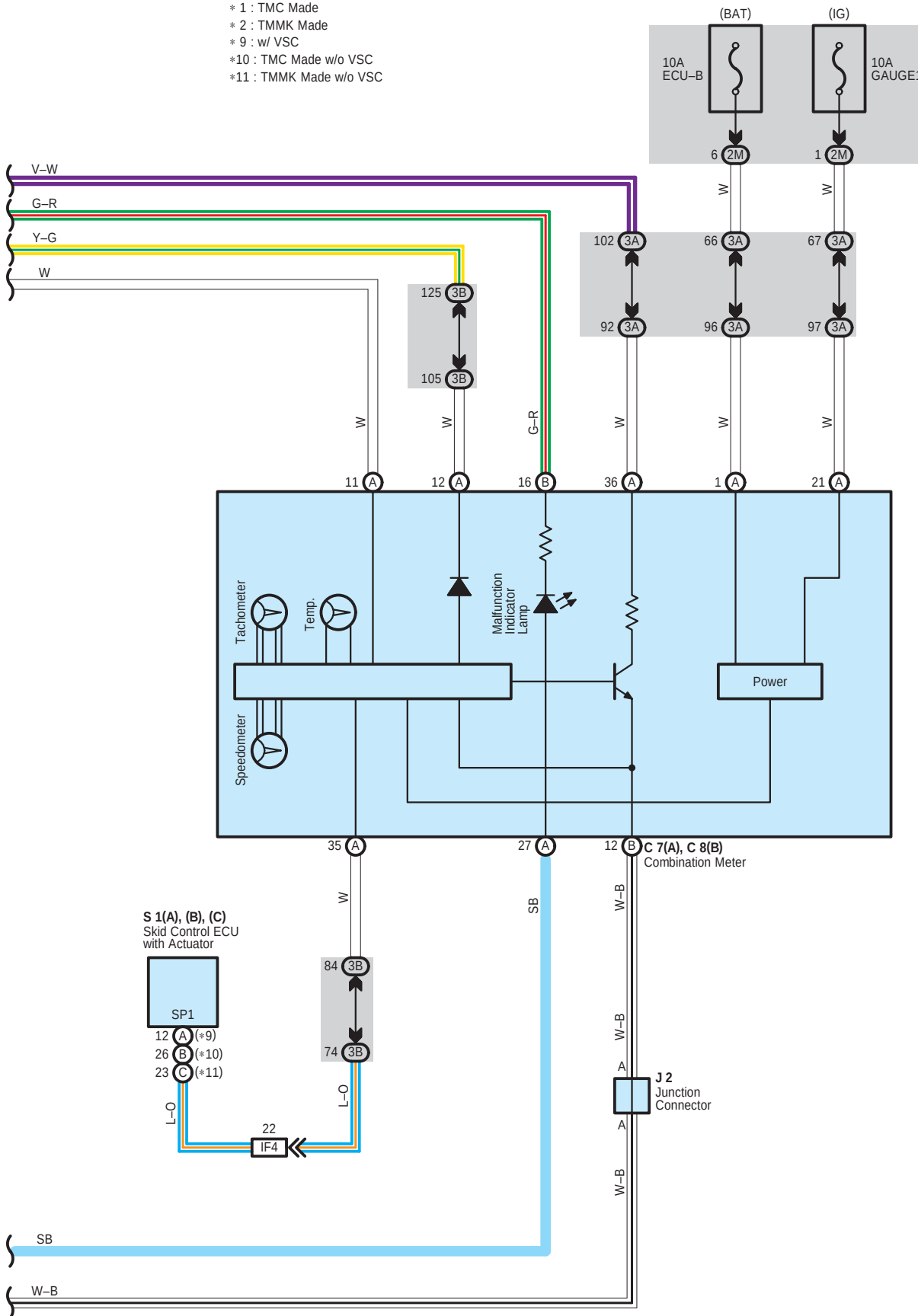


Engine Control for 2AZ-FE





- * 1 : TMC Made
- * 2 : TMMK Made
- * 9 : w/ VSC
- *10 : TMC Made w/o VSC
- *11 : TMMK Made w/o VSC



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. 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) Oxygen density signal circuit

The oxygen density in the exhaust emission is detected by the heated oxygen sensor and input as a control signal to TERMINALS OX1B and OX1C of the engine control module (HT1B and HT1C)

(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) Vehicle speed circuit

The vehicle speed sensor, detects the vehicle speed and input to ABS speed sensor of the skid control ECU with actuator, from skid control ECU with actuator to TERMINAL SPD of the engine control module, Via combination meter.

(7) 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 relay.

(8) A/C SW signal circuit

The A/C control assembly (Automatic A/C) or A/C amplifier (Manual A/C) inputs the A/C operations into TERMINAL AC1 of the engine control module.

(9) Stop light SW signal circuit

The stop light 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 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.

(11) Engine knock signal circuit

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

(12) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINAL AF1A+ of the engine control module.

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, #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, IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

* 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 emissions is low), and warms up the heated oxygen sensor to improve detection performance of the sensor. The engine control module evaluates the signals from each sensor, and outputs current to TERMINALS HT1B and HT1C (California) to control the heater.

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
A4	40 (*2)	H6	B 40 (*2)	J17	E 36, 43
A8	40 (*2)	H13	A 43	J22	A 43
A18	42		B 43	J23	B 43
A23	B 42	I1	41 (*2)	K2	41 (*2)
A38	B 42	I2	41 (*2)	M1	41 (*2)
A40	A 42	I3	41 (*2)	P1	41 (*2)
C1	40 (*2)	I4	41 (*2)	S1	A 41 (*2)
C3	B 40 (*2)	I7	B 41 (*2)		B 41 (*2)
C6	42	I8	B 41 (*2)		C 41 (*2)
C7	A 42	I9	B 41 (*2)	S14	43
C8	B 42	I10	B 41 (*2)	T11	A 43
D3	42	I15	43		B 43
E4	B 40 (*2)	I18	41 (*2)	T12	41 (*2)
E6	A 42	J1	43	V4	A 45
E7	B 42	J2	43		B 45
	F 42	J5	A 43	V6	B 41 (*2)
E9	D 42	J6	B 43	V7	41 (*2)
E10	E 42	J11	44	V11	A 45
F8	44	J16	D 36, 43		B 45

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Engine Control for 2AZ-FE



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1C		
1D		
1E		
1H		
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
1L		
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IF6		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

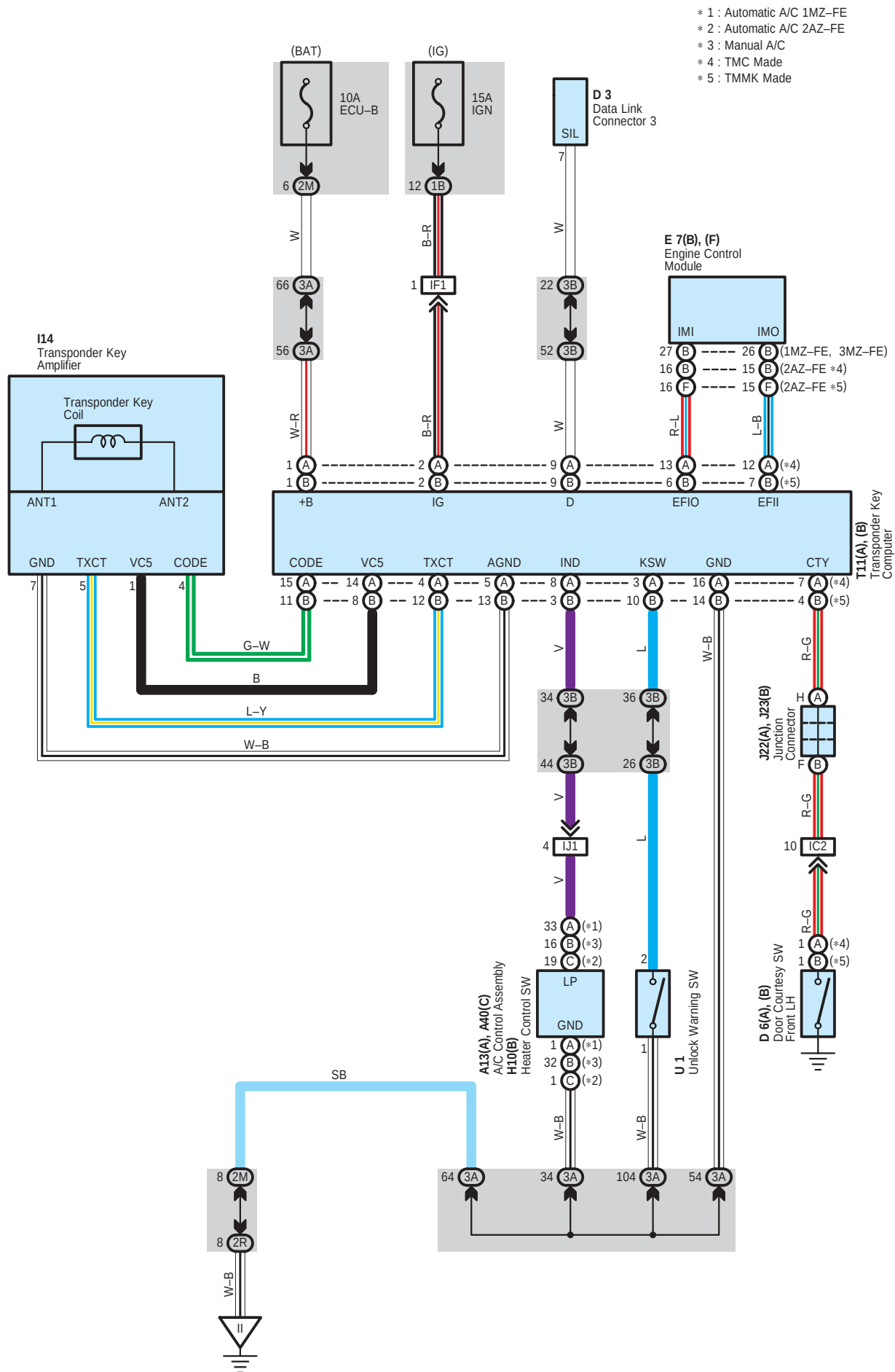


: Ground Points

Code	See Page	Ground Points Location
EC	49 (*2)	Left Fender
ED		
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
II	50	Cowl Side Panel LH
BQ	52	Front Side of Rear Quarter Wheel House LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Engine Immobiliser System



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A13	A	42	E7	B	42	J23	B	43
A40	C	42		F	42	T11	A	43
D3		42	H10	B	43		B	43
D6	A	44	I14		43	U1		43
D6	B	44	J22	A	43			

 : Junction Block and Wire Harness Connector

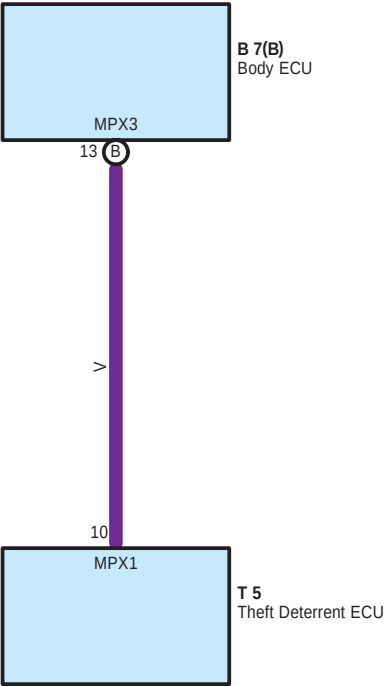
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)

 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH



System Outline

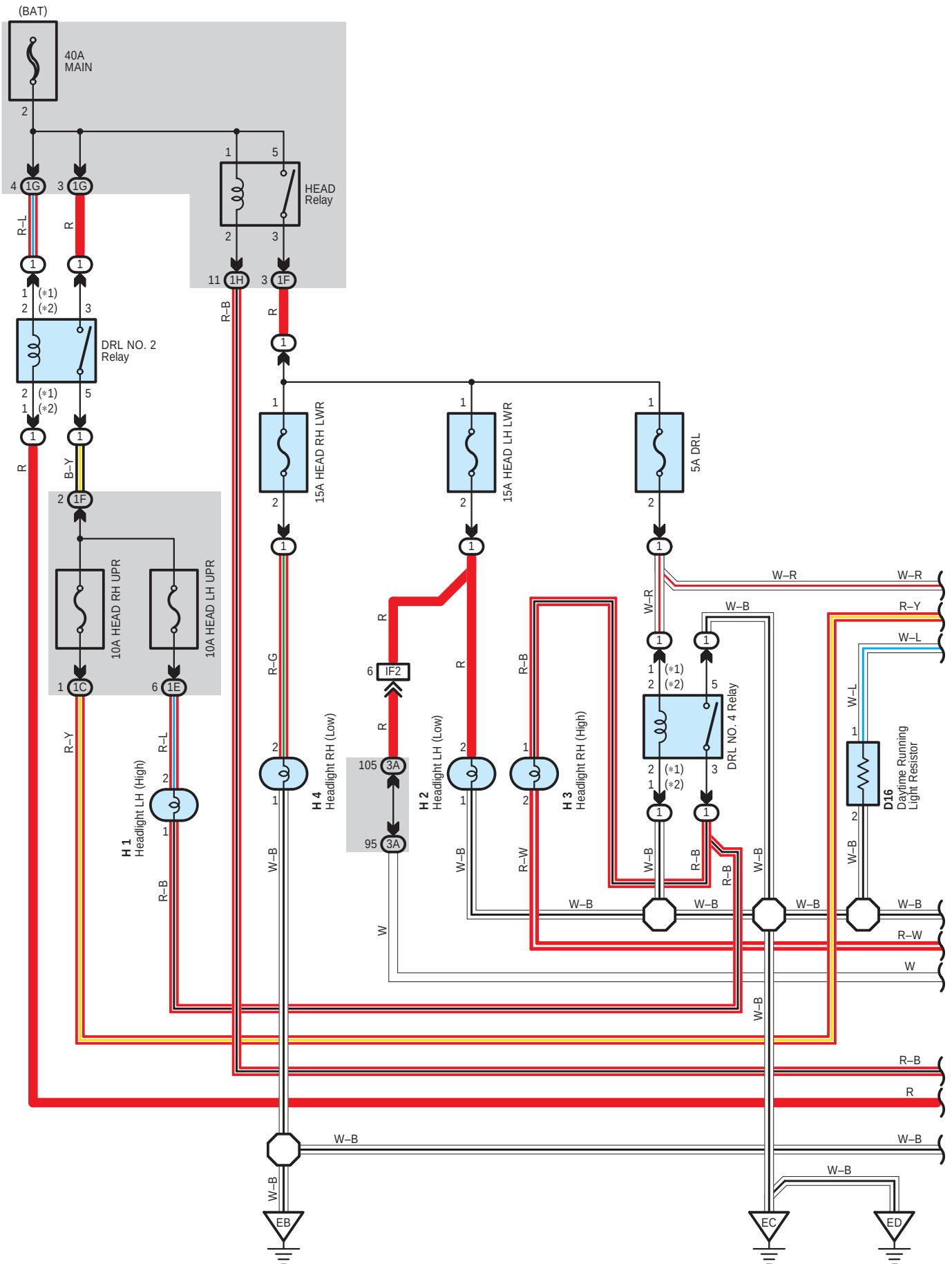
The multiplex communication system communicates among the body ECU, theft deterrent ECU and controls the following systems according to the signals from respective sensors or switches.

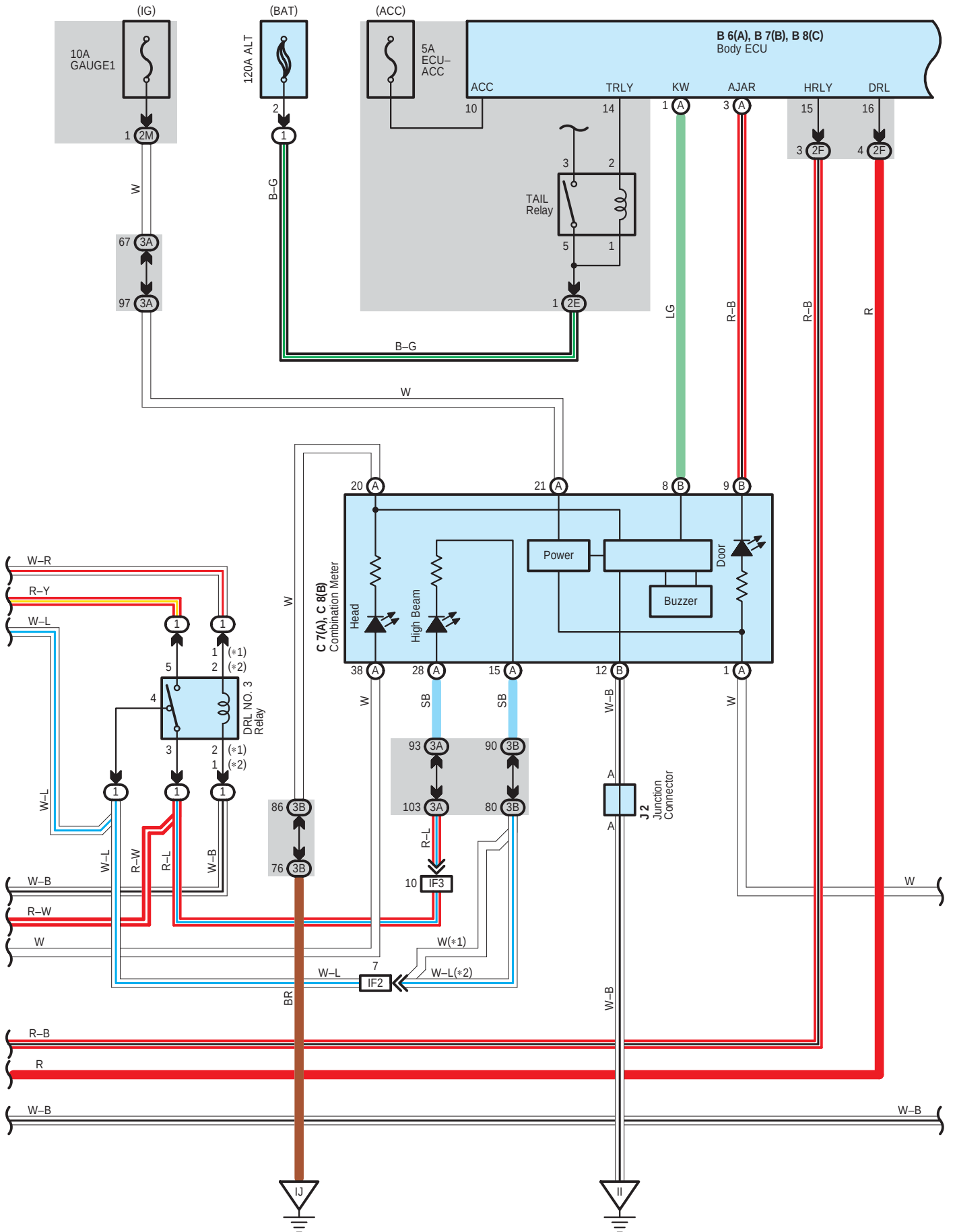
Multiplex Communication System Includes Following Systems

- * Automatic Light Control
- * Door Lock Control
- * Headlight
- * Interior Light
- * Key Reminder
- * Light Auto Turn Off System
- * Theft Deterrent
- * Wireless Door Lock Control

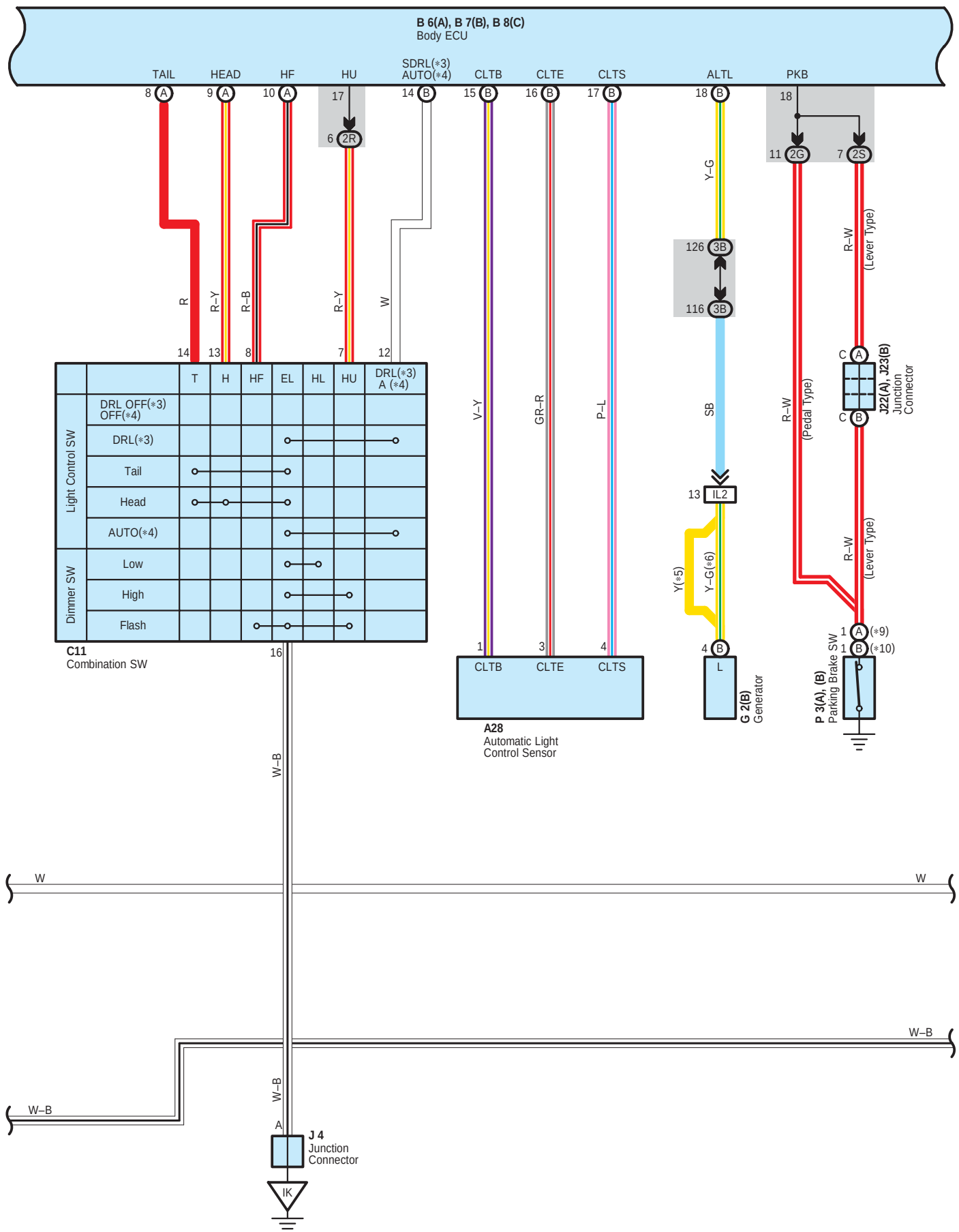
○ : Parts Location

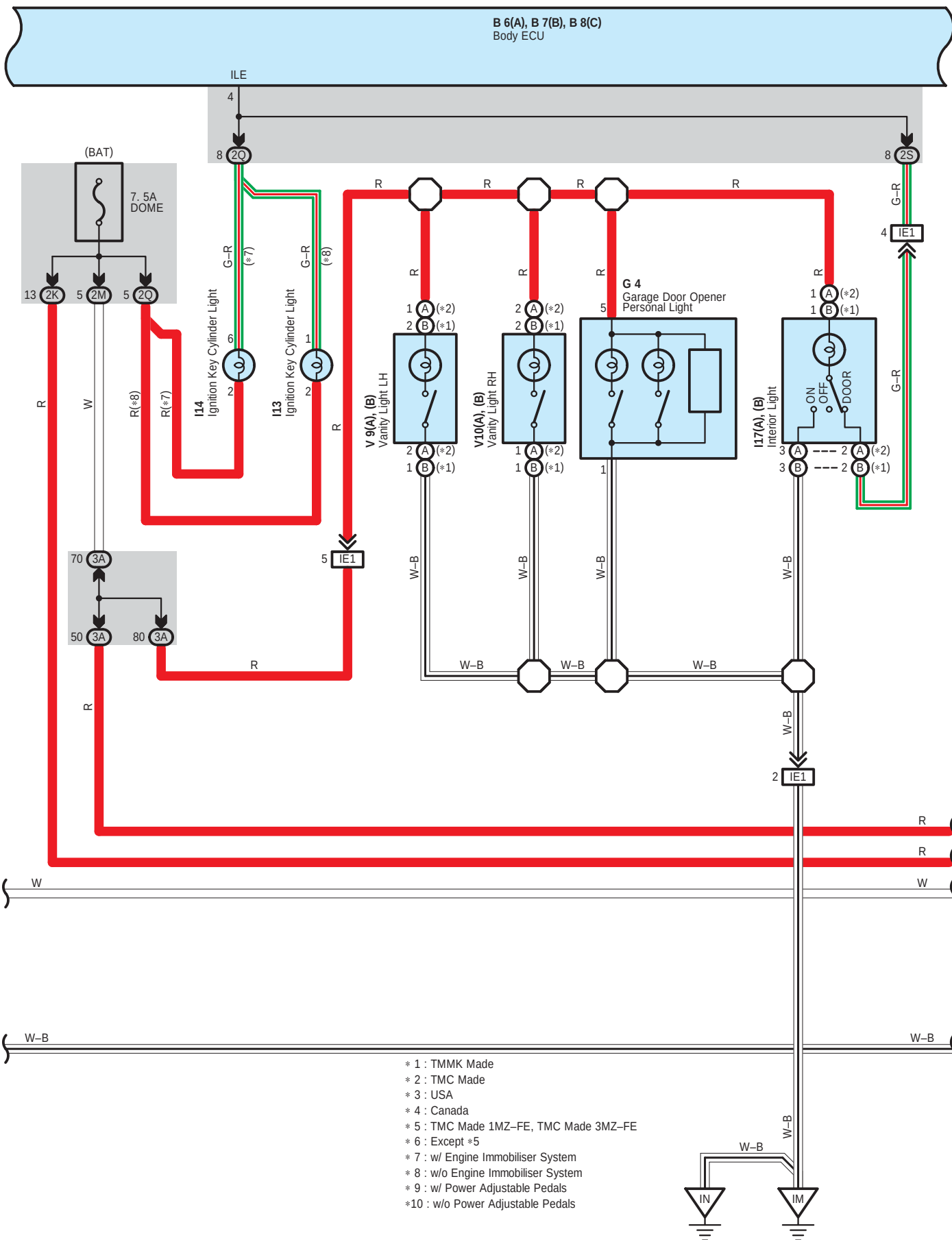
Code		See Page	Code		See Page	Code		See Page
B7	B	42	T5	43				



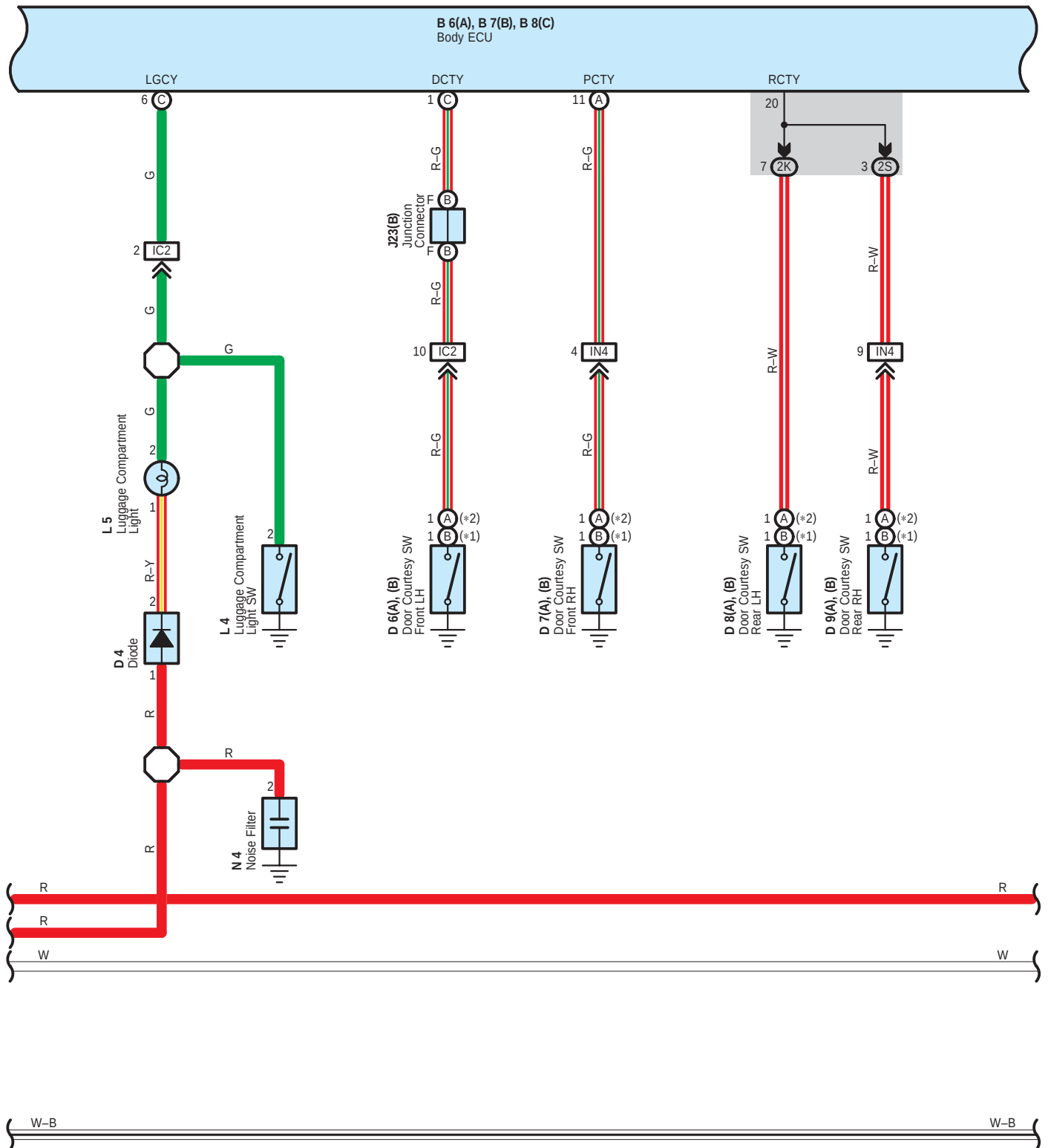


Multiplex Communication System – BEAN

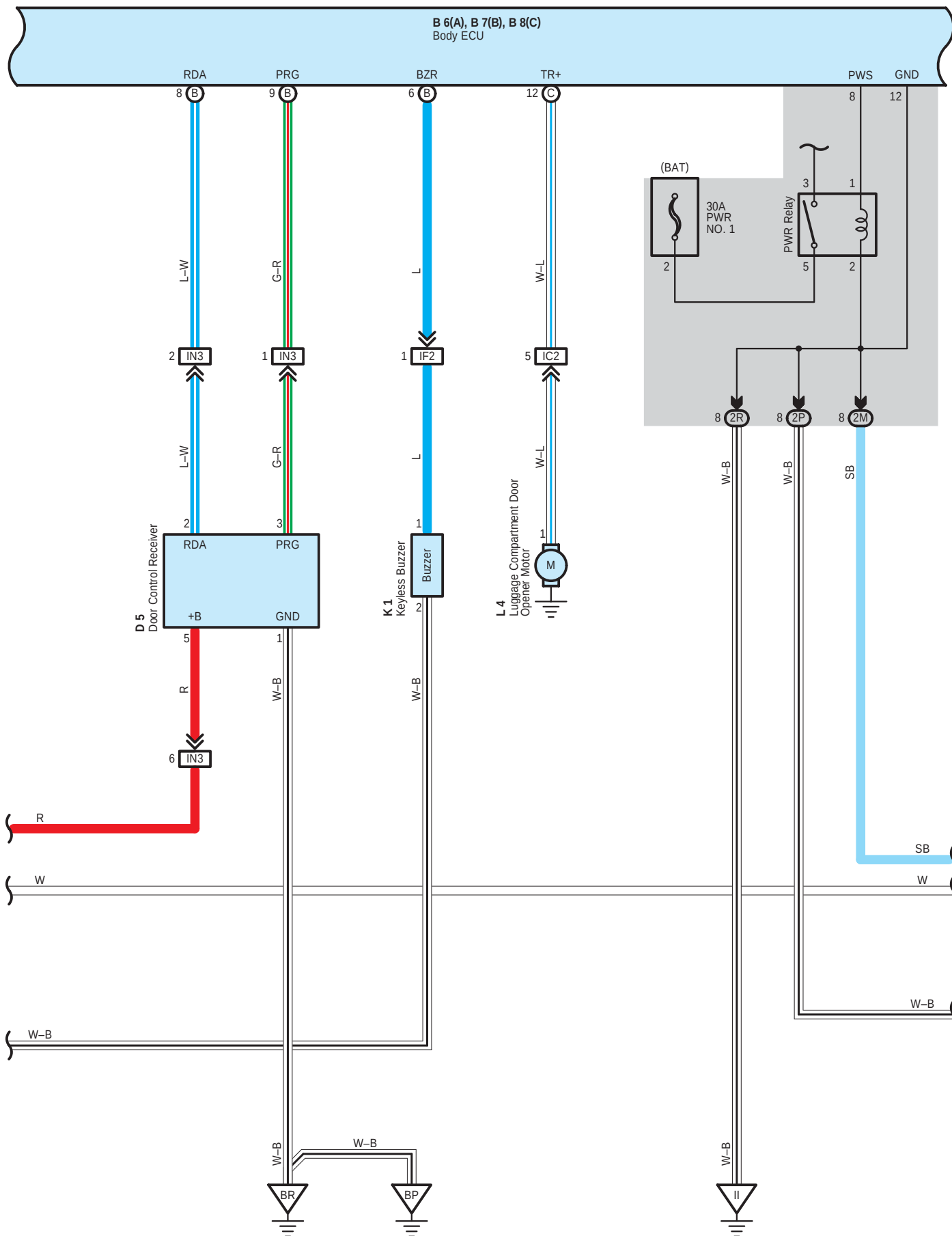


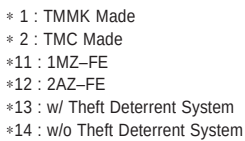


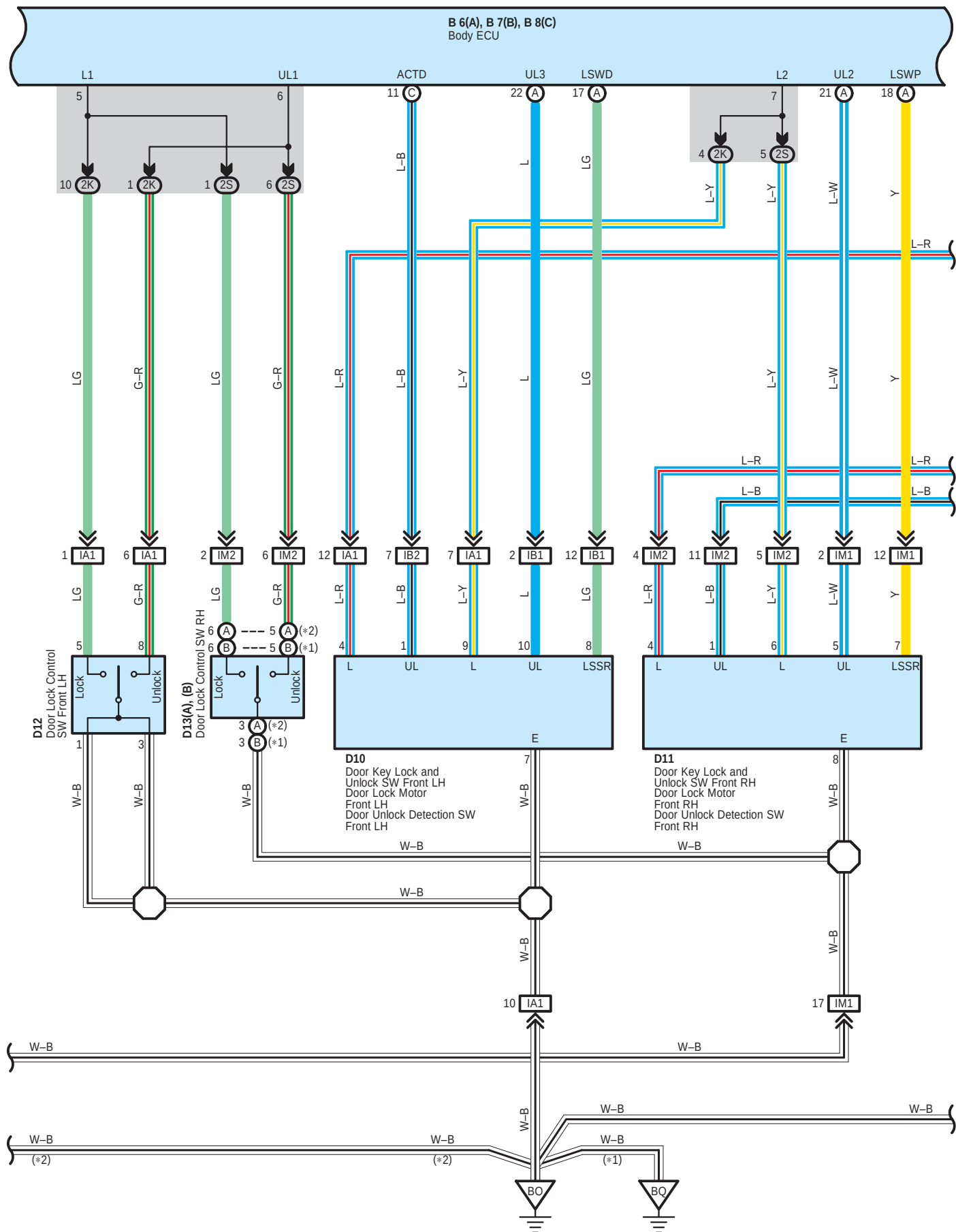
Multiplex Communication System – BEAN



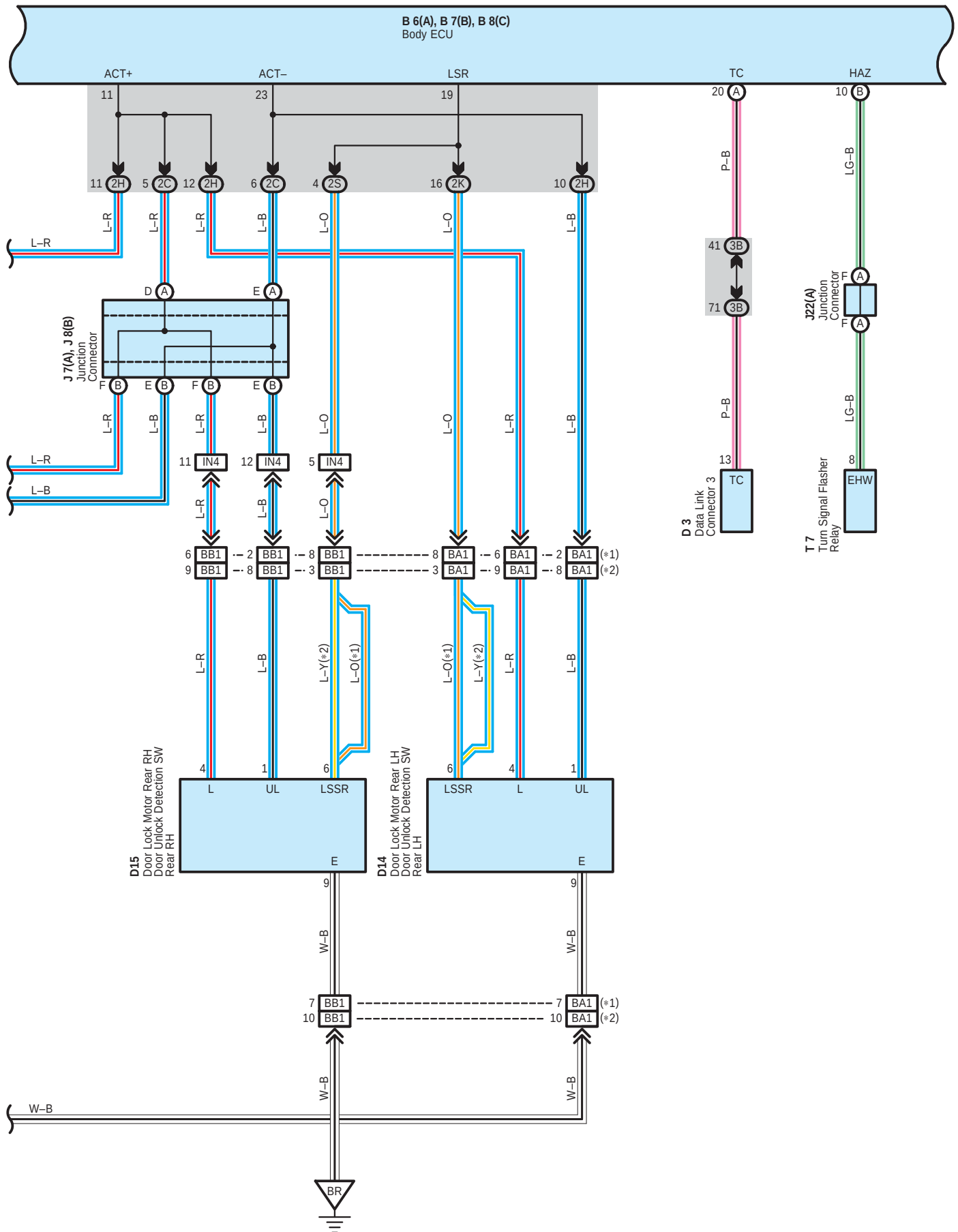
* 1 : TMMK Made
* 2 : TMC Made

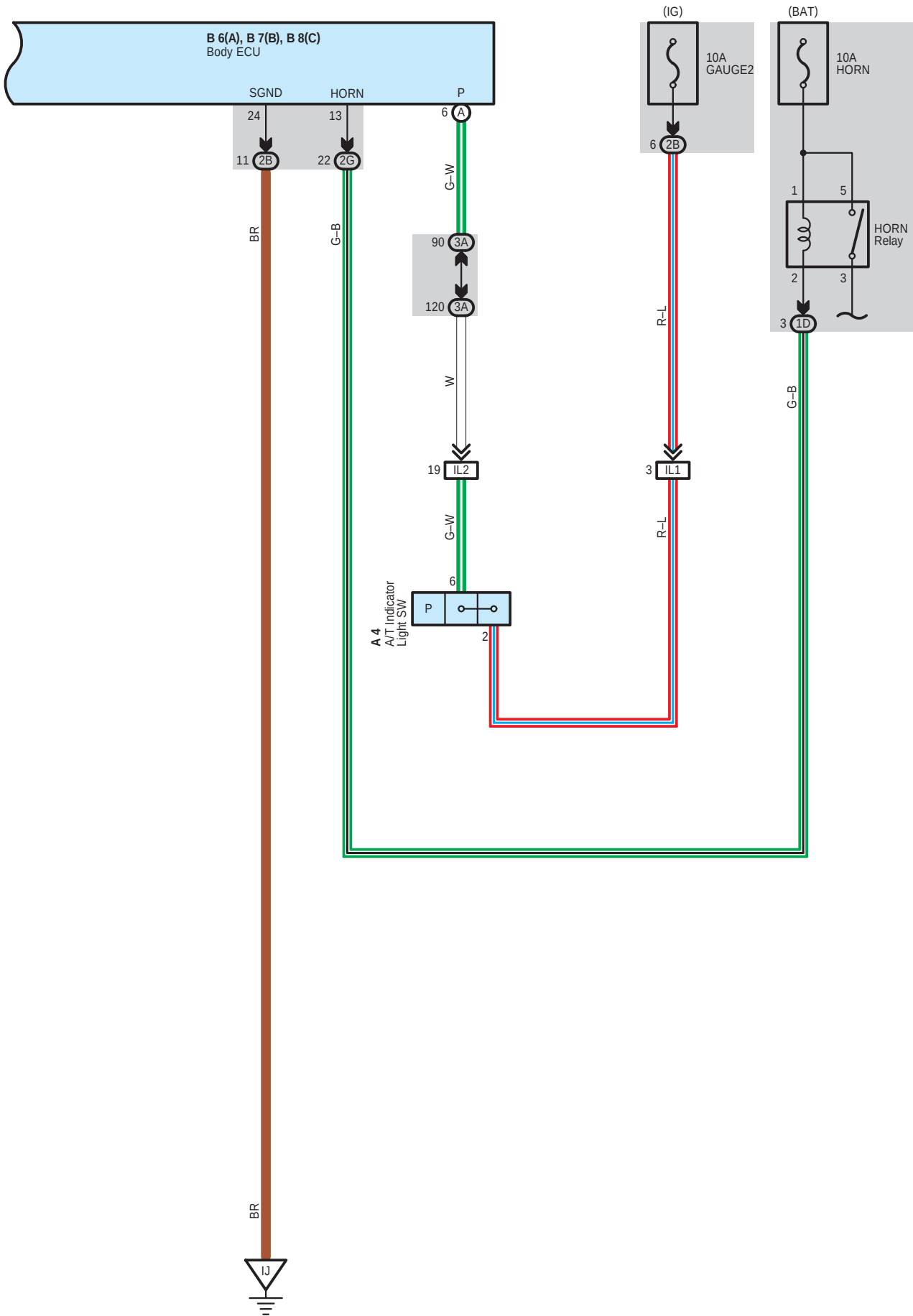






- * 1 : TMMK Made
- * 2 : TMC Made





Multiplex Communication System – BEAN

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	D13	A 44	J7	A 43
	40 (*2)		B 44	J8	B 43
A13	A 42	D14	44	J11	44
A28	42	D15	44	J22	A 43
A40	B 42	D16	38 (*1)	J23	B 43
B6	A 42		40 (*2)	K1	39 (*1)
B7	B 42	E5	38 (*1)		41 (*2)
B8	C 42		40 (*2)	L3	45
C7	A 42	G2	B 38 (*1)	L4	45
C8	B 42		40 (*2)	L5	45
C11	42	G4	44	N4	45
D3	42	H1	38 (*1)	P3	A 43
D4	44		40 (*2)		B 43
D5	44	H2	38 (*1)	T1	39 (*1)
D6	A 44		40 (*2)		41 (*2)
	B 44	H3	38 (*1)	T5	43
D7	A 44		40 (*2)	T7	43
	B 44	H4	38 (*1)	U1	43
D8	A 44		40 (*2)		43
	B 44	I13	43	V9	A 45
D9	A 44	I14	43	V10	A 45
	B 44	I17	A 44		B 45
D10	44		B 44	Z1	43
D11	44	J2	43		
D12	44	J4	43		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1D		
1E		
1F		
1G		
1H		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2C		
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F		
2G		
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2P		
2Q		
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
IN3	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IN4		
BA1	52	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	52	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

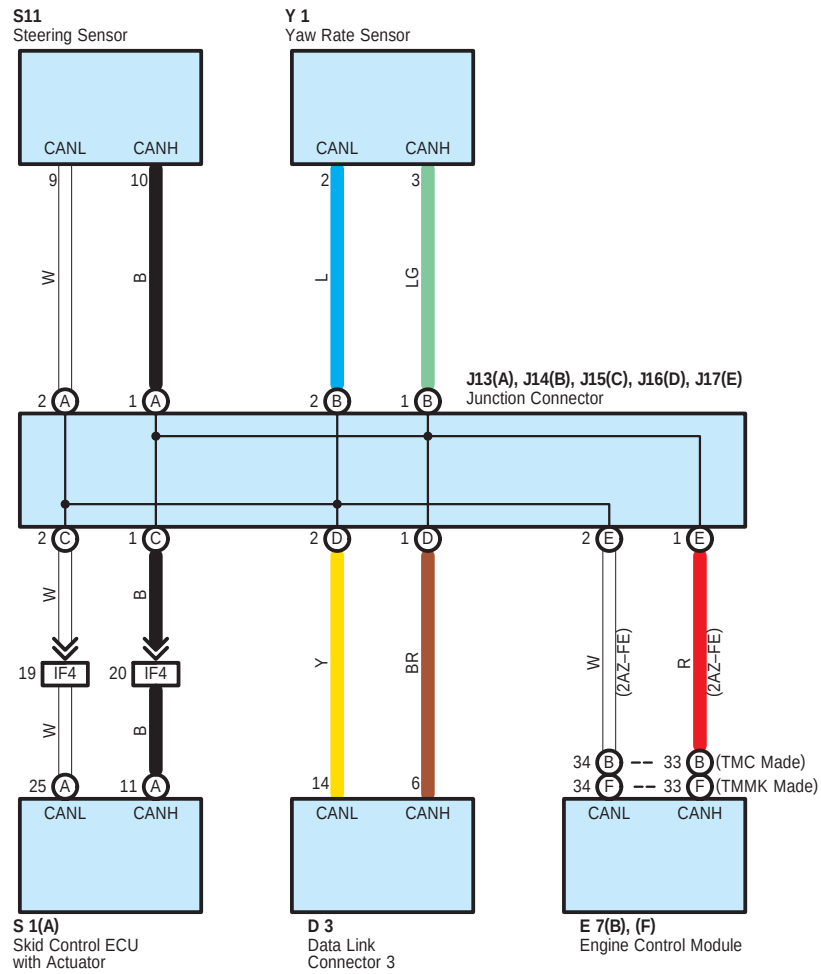
Multiplex Communication System – BEAN



: Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
ED	48 (*1)	
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		
IM	50	Instrument Panel Reinforcement RH
IN		
BO	52	Under the Driver's Seat
BP	52	Under the Front Passenger's Seat
BQ	52	Front Side of Rear Quarter Wheel House LH
BR	52	Front Side of Rear Quarter Wheel House RH
BS	52	Lower Back Panel Center

* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat



System Outline

Multiplex communication system (CAN bus) uses a serial communication protocol and communicates with a differential voltage. In this network system, TERMINALS CANH and CANL are used for communication between the ECUs and sensors, and excellent data communication speed and communication error detecting facility are provided.

This system is working for the following systems:

- * ABS (w/ VSC)
- * TRAC
- * VSC

○ : Parts Location

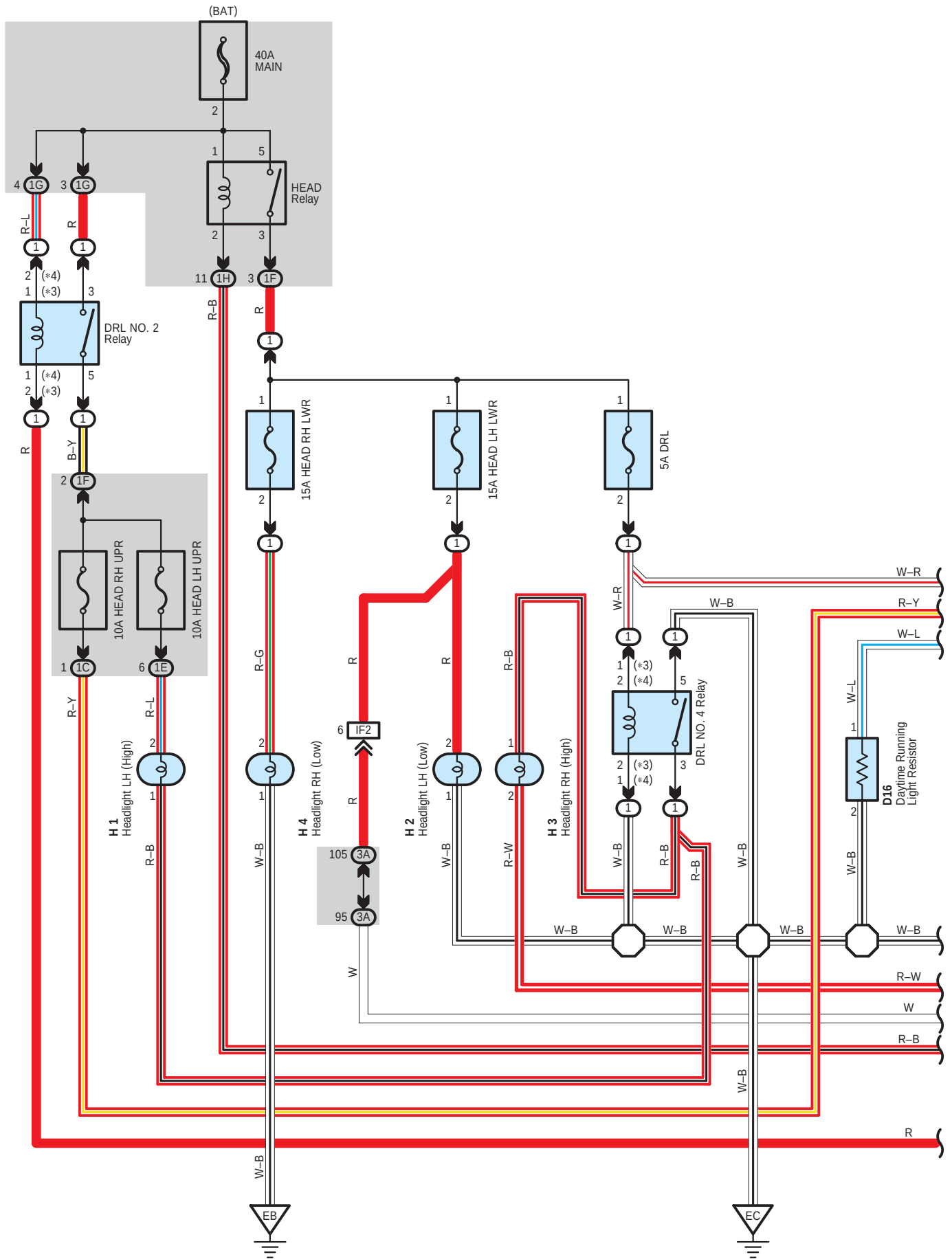
Code	See Page	Code	See Page	Code	See Page
D3	42	J14	B	36, 43	
E7	B	J15	C	36, 43	S1 A 39 (*1)
	F	J16	D	36, 43	41 (*2)
J13	A	J17	E	36, 43	S11 43
					Y1 43

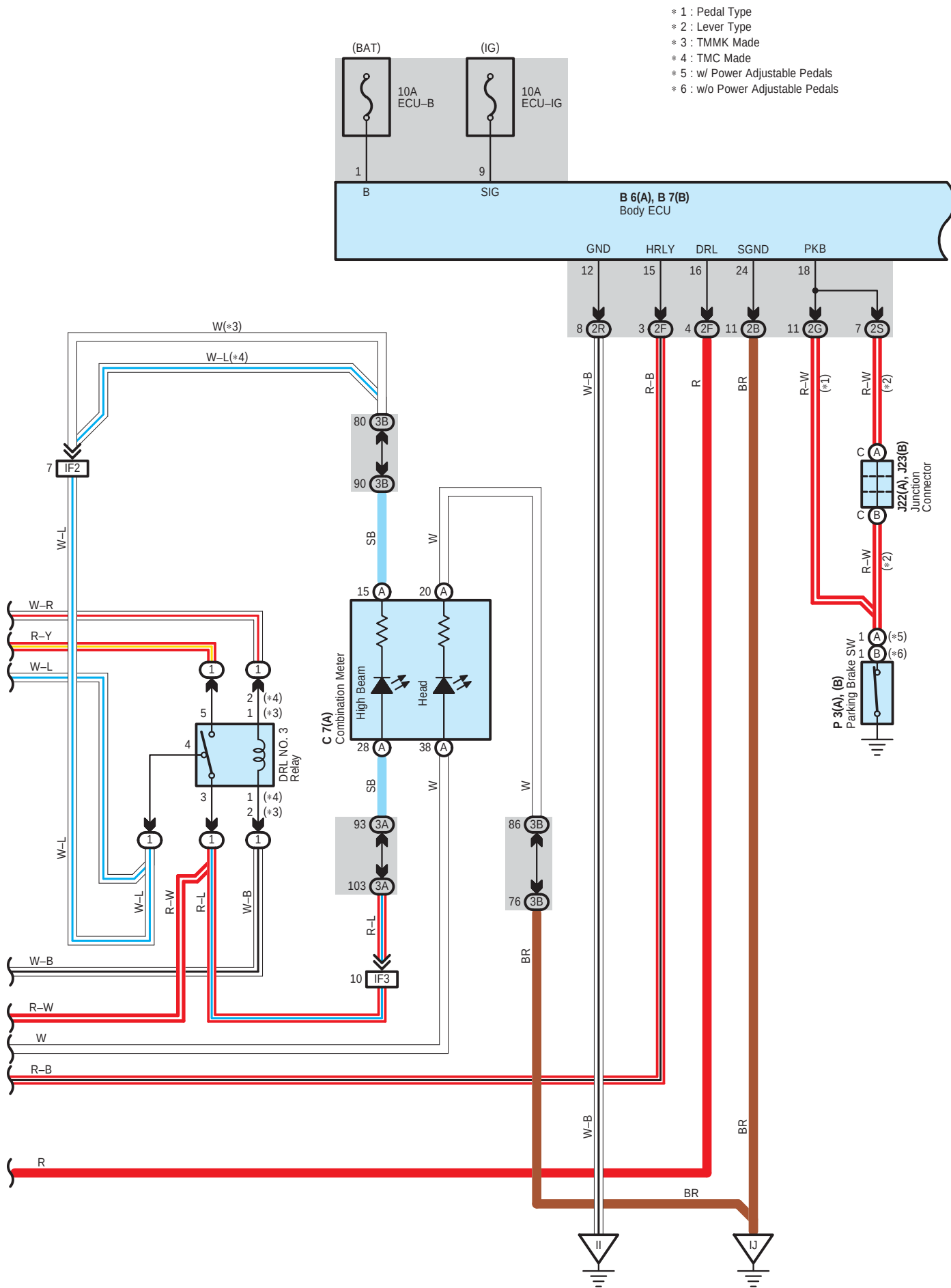
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

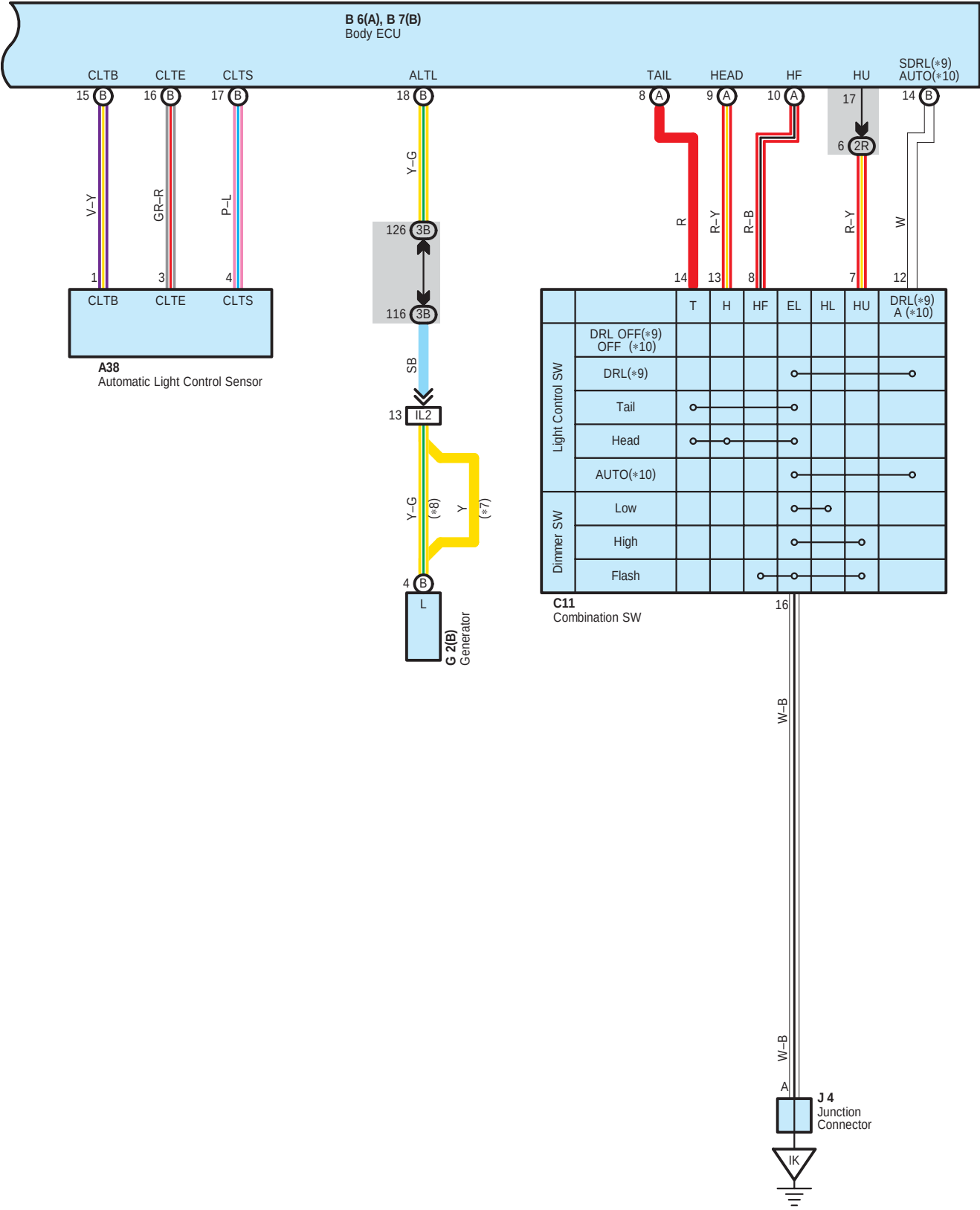
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Headlight





* 7 : TMC Made 1MZ-FE, TMC Made 3MZ-FE
* 8 : Except *7
* 9 : USA
*10 : Canada



System Outline

Daytime Running Light Operation

When the engine is started, a signal from the generator is input into TERMINAL (B) 18 of the body ECU. At this time, if the parking brake pedal is depressed or parking brake lever is pulled (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake pedal or parking lever is released (Parking brake SW OFF), a signal is input into TERMINAL 18 of the body ECU. This activates the body ECU and the headlight turns on.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A38	42	G2	B	H4	40 (*2)
B6	A	H1	38 (*1)	J4	43
B7	B			J22	A
C7	A	H2	38 (*1)	J23	B
C11	42			P3	A
D16	38 (*1)	H3	38 (*1)		43
	40 (*2)				
G2	B	H4	38 (*1)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
1F		
1G		
1H		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2F	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

: Connector Joining Wire Harness and Wire Harness

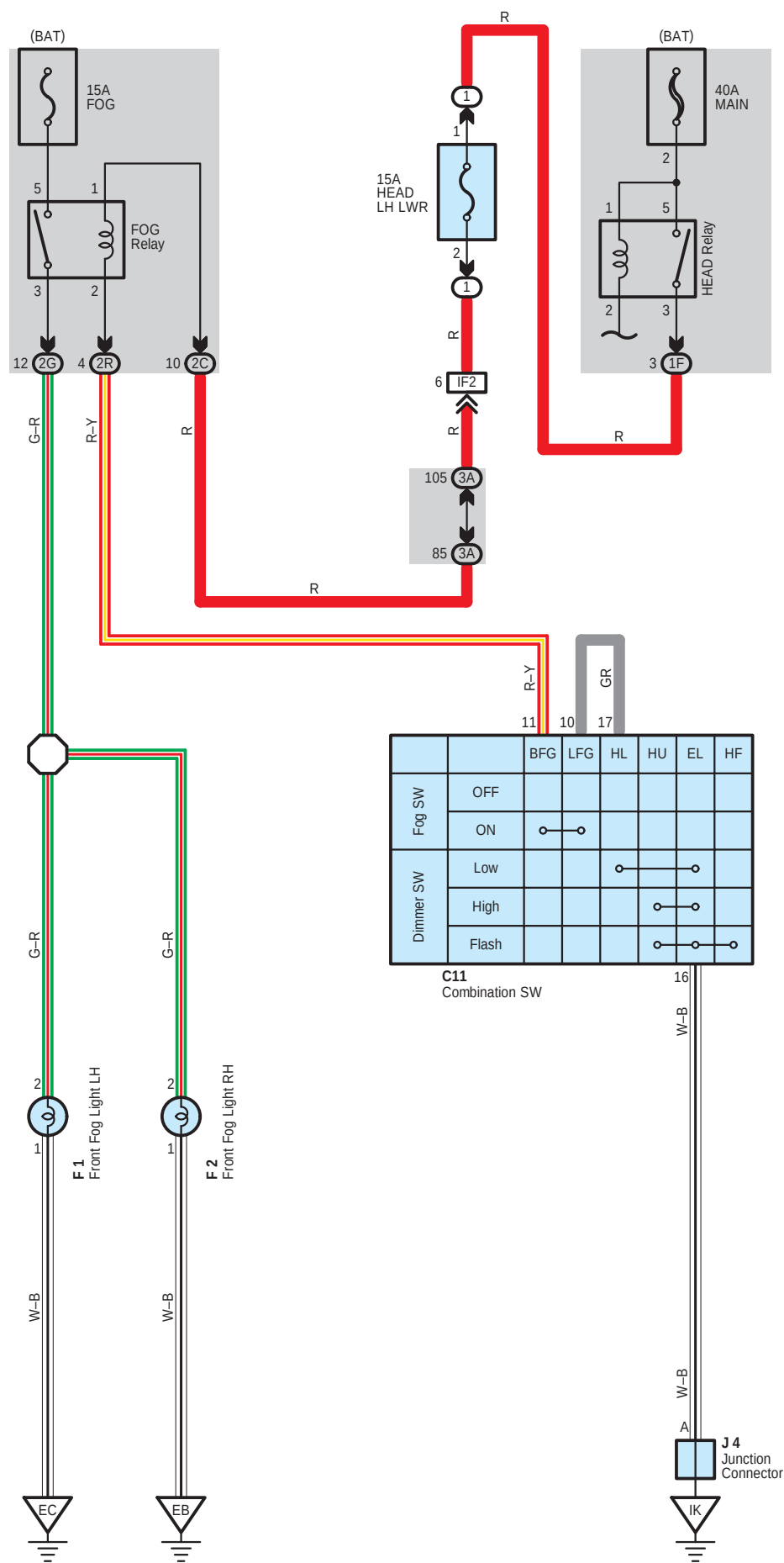
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IL2	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Fog Light



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
C11	42	F1	40 (*2)	F2	40 (*2)
F1	38 (*1)	F2	38 (*1)	J4	43

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

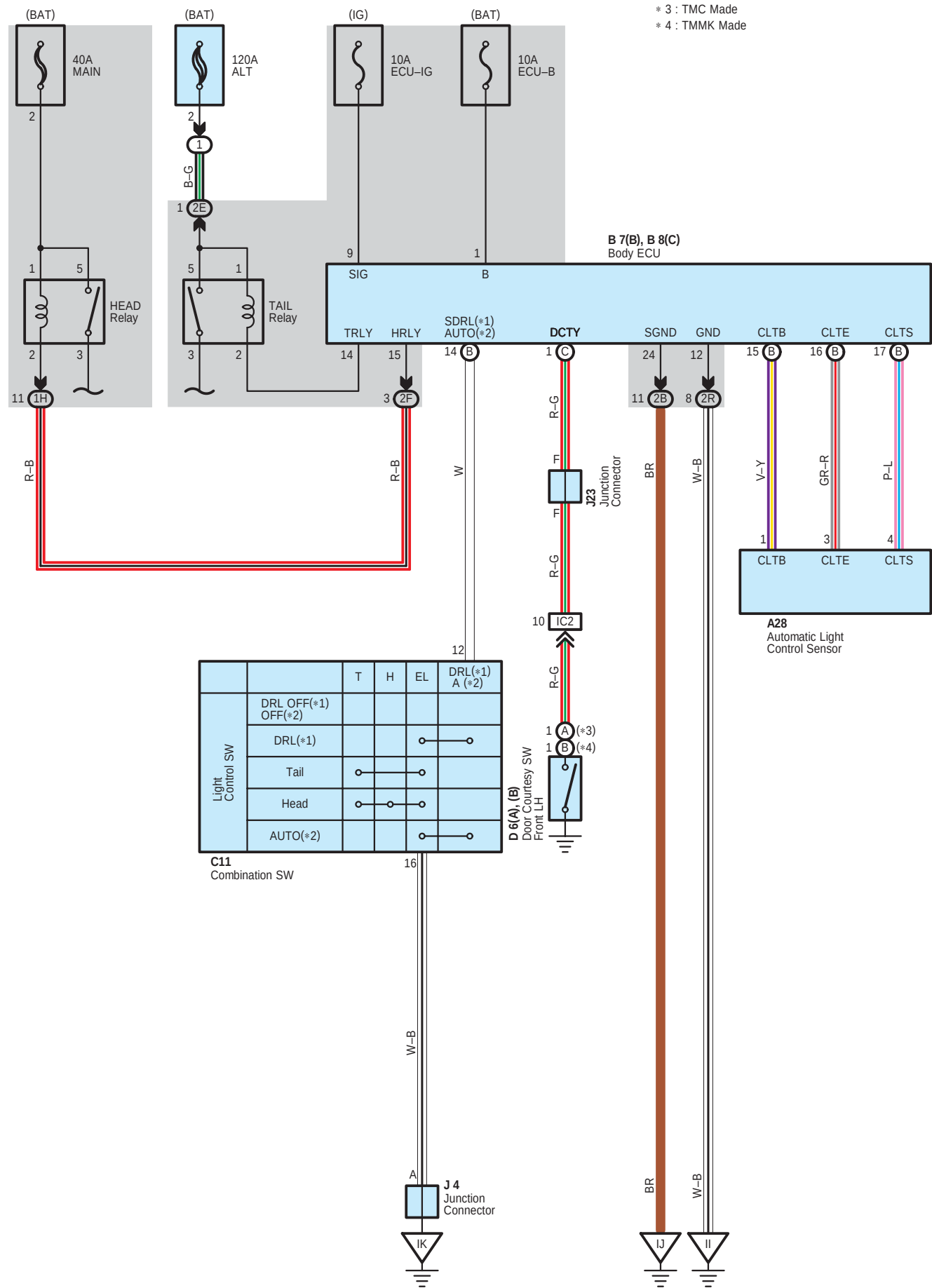
 : Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
IK	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Automatic Light Control

- * 1 : USA
- * 2 : Canada
- * 3 : TMC Made
- * 4 : TMMK Made



System Outline

The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns the taillight and headlight on if the brightness is below the regular level and turns the taillight and headlight off when the surroundings become brighter than the regular level.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A28		42	C11		42	J4		43
B7	B	42	D6	A	44	J23		43
B8	C	42	D6	B	44			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

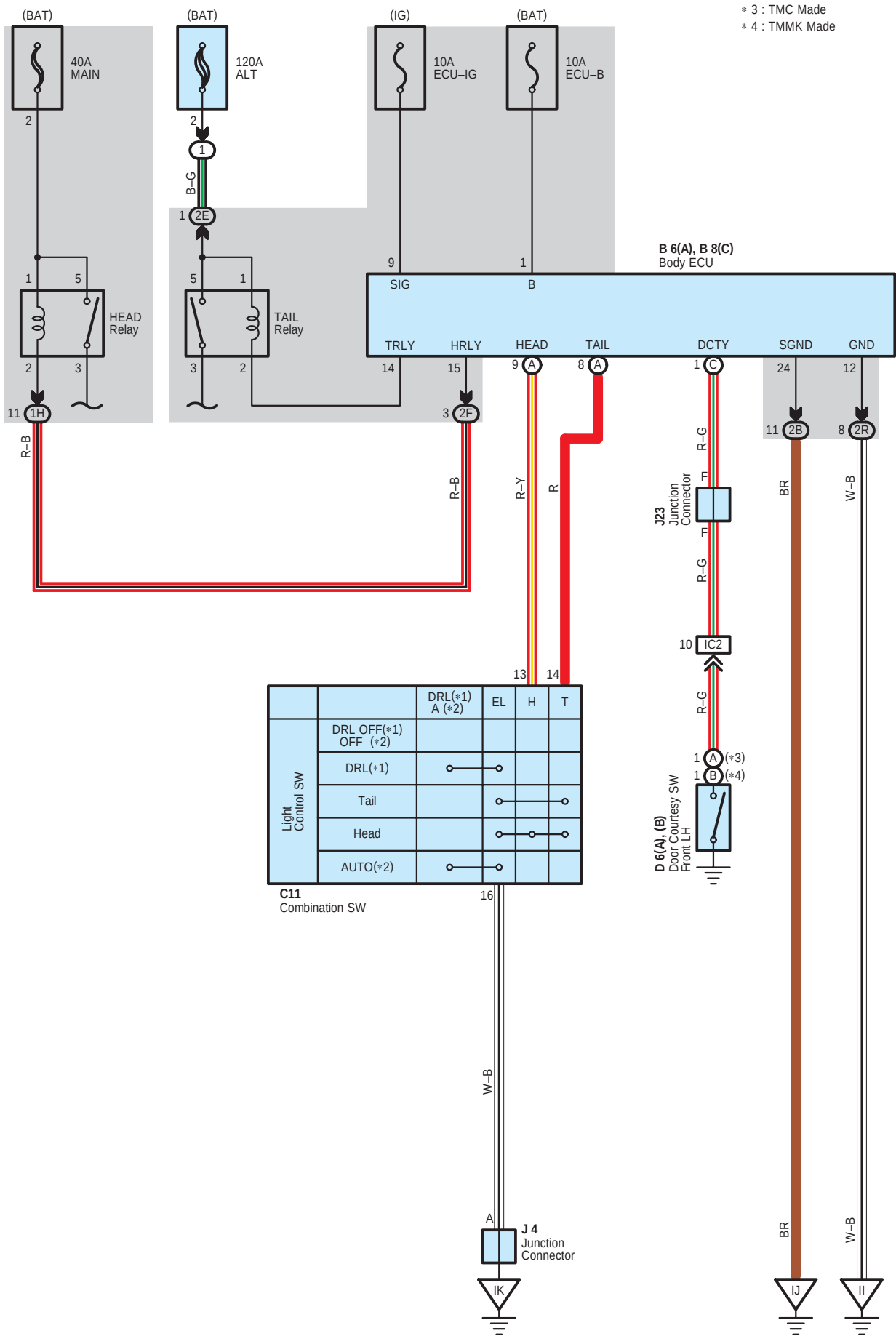
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		

Light Auto Turn Off System

- * 1 : USA
- * 2 : Canada
- * 3 : TMC Made
- * 4 : TMMK Made



System Outline

1. Normal Lighting Operation

<Turn taillight on>

With the light control SW turned to TAIL position, a signal is input into TERMINAL (A) 8 of the body ECU. Due to this signal, the current flowing to TERMINAL 14 of the ECU flows to TERMINAL (A) 8 to TERMINAL 14 of the light control SW to TERMINAL 16 to GROUND, and TAIL relay causes taillights to turn on.

<Turn headlight on>

With the light control SW turned to HEAD position, a signal is input into TERMINALS (A) 8 and (A) 9 of the body ECU. Due to this signal, the current flowing to TERMINAL 15 of the ECU flows to TERMINAL (A) 9 to TERMINAL 13 of the light control SW to TERMINAL 16 to GROUND in the headlight circuit, and causes taillight and HEAD relay to turn the lights on. The taillight circuit is same as above.

2. Light Auto Turn Off Operation

With light on and ignition SW turned off (Input signal goes to TERMINAL 9 of the ECU), when the driver's door is opened (Input signal goes to TERMINAL (C) 1 of the ECU), the body ECU operates and the current is cut off which flows from TERMINAL 14 of the ECU to TERMINAL (A) 8 In taillight circuit and from TERMINAL 15 to TERMINAL (A) 9 in headlight circuit.

As a result, all lights are turned off automatically.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B6	A	42	D6	A	44
B8	C	42		B	44
C11	42		J4	43	

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

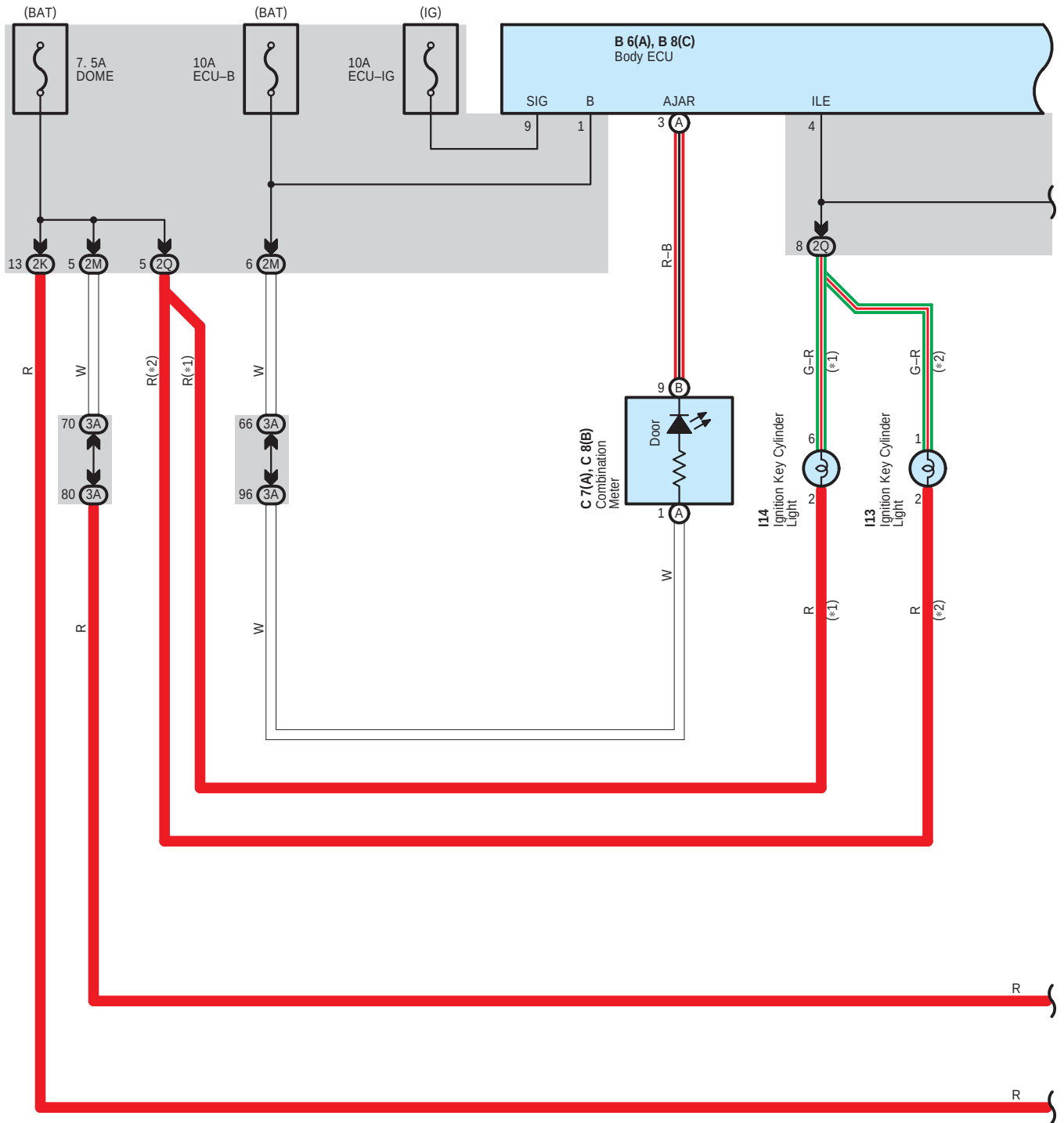
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		

Interior Light





 : Parts Location

Code		See Page	Code		See Page	Code		See Page
B6	A	42	D8	A	44	J23		43
B8	C	42		B	44	L4		45
C7	A	42	D9	A	44	L5		45
C8	B	42		B	44	N4		45
D4		44	G4		44	V9	A	45
D6	A	44	I13		43		B	45
	B	44	I14		43	V10	A	45
D7	A	44	I17	A	44		B	45
	B	44		B	44			

 : Junction Block and Wire Harness Connector

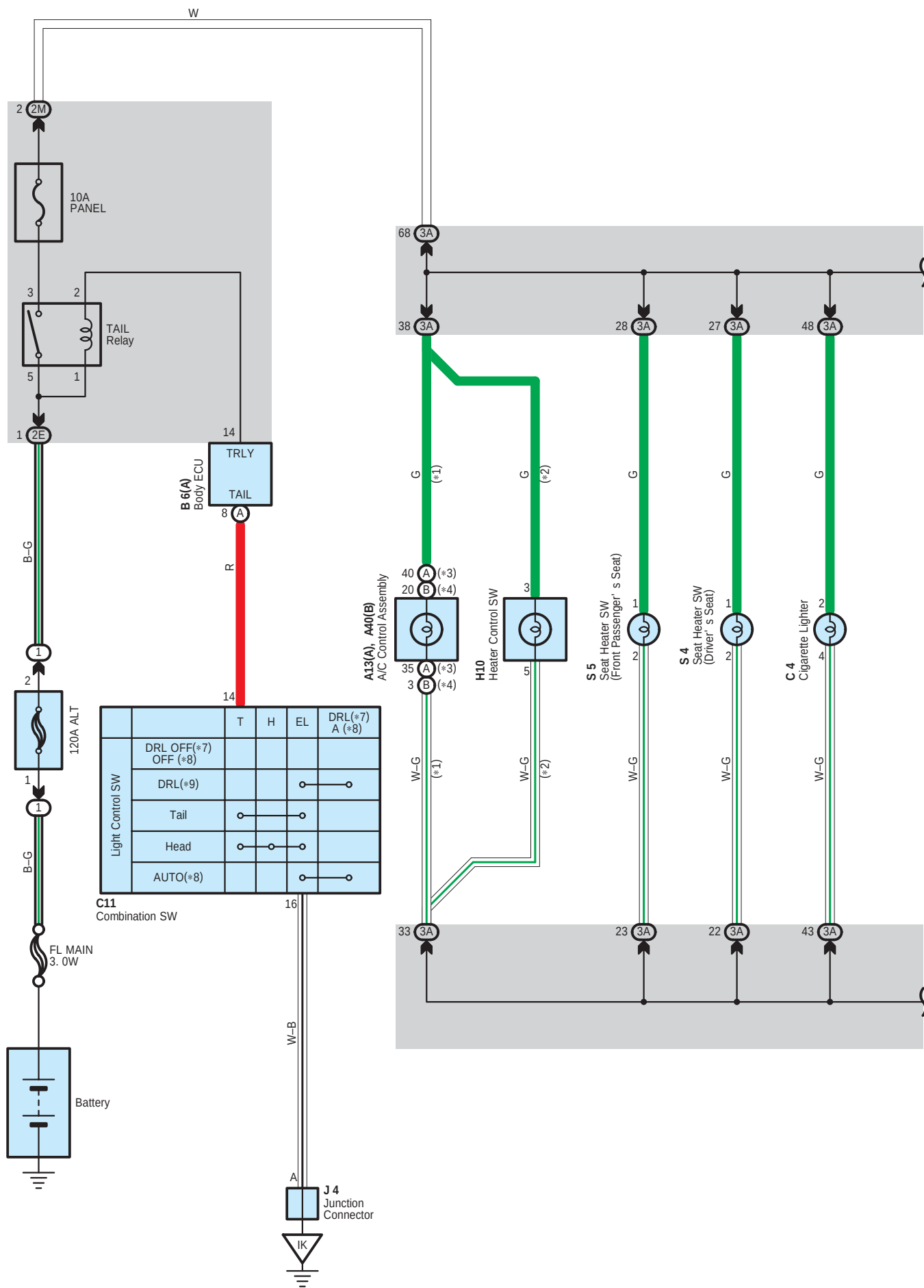
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2Q		
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

 : Connector Joining Wire Harness and Wire Harness

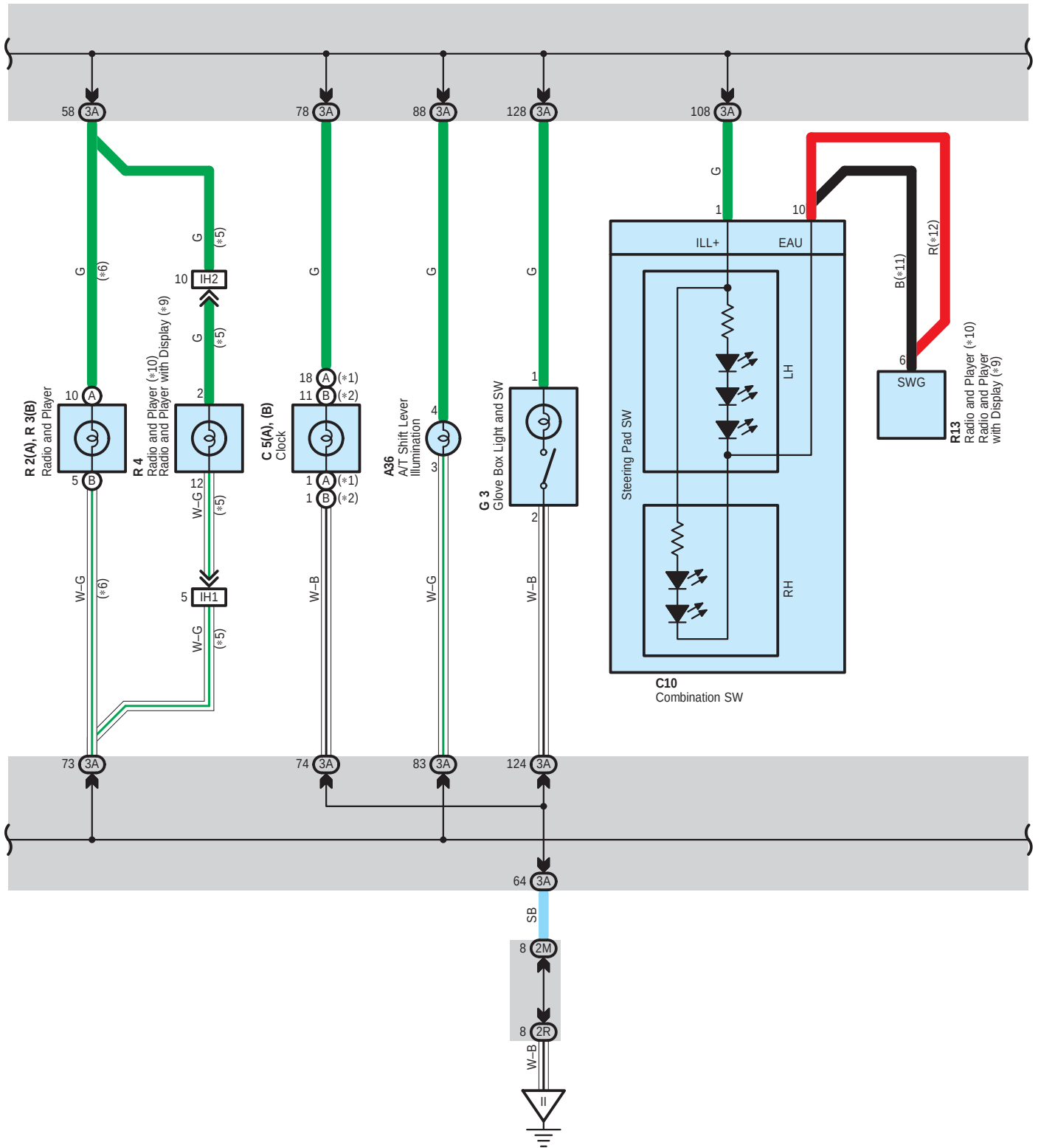
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

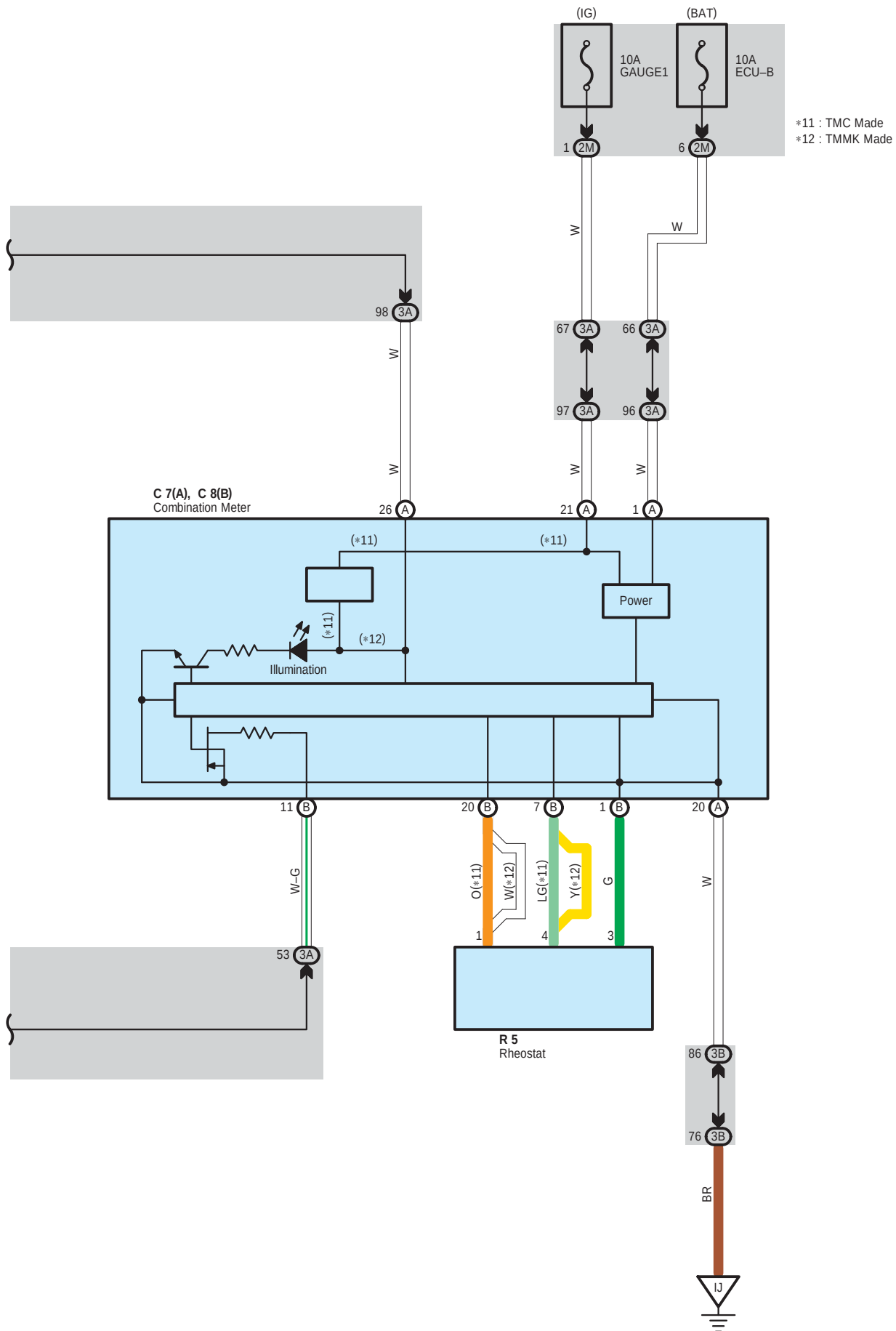
 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IM	50	Instrument Panel Reinforcement RH



- * 1 : Automatic A/C
- * 2 : Manual A/C
- * 3 : 1MZ-FE
- * 4 : 2AZ-FE
- * 5 : Separate Type Amplifier
- * 6 : Built-In Type Amplifier
- * 7 : USA
- * 8 : Canada
- * 9 : w/ Navigation System
- * 10 : w/o Navigation System
- * 11 : TMC Made
- * 12 : TMMK Made





 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A13	A	42	C7	A	42	R2	A	43
A36		42	C8	B	42	R3	B	43
A40	B	42	C10		42	R4		43
B6	A	42	C11		42	R5		43
C4		42	G3		43	R13		43
C5	A	42	H10		43	S4		43
	B	42	J4		43	S5		43

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

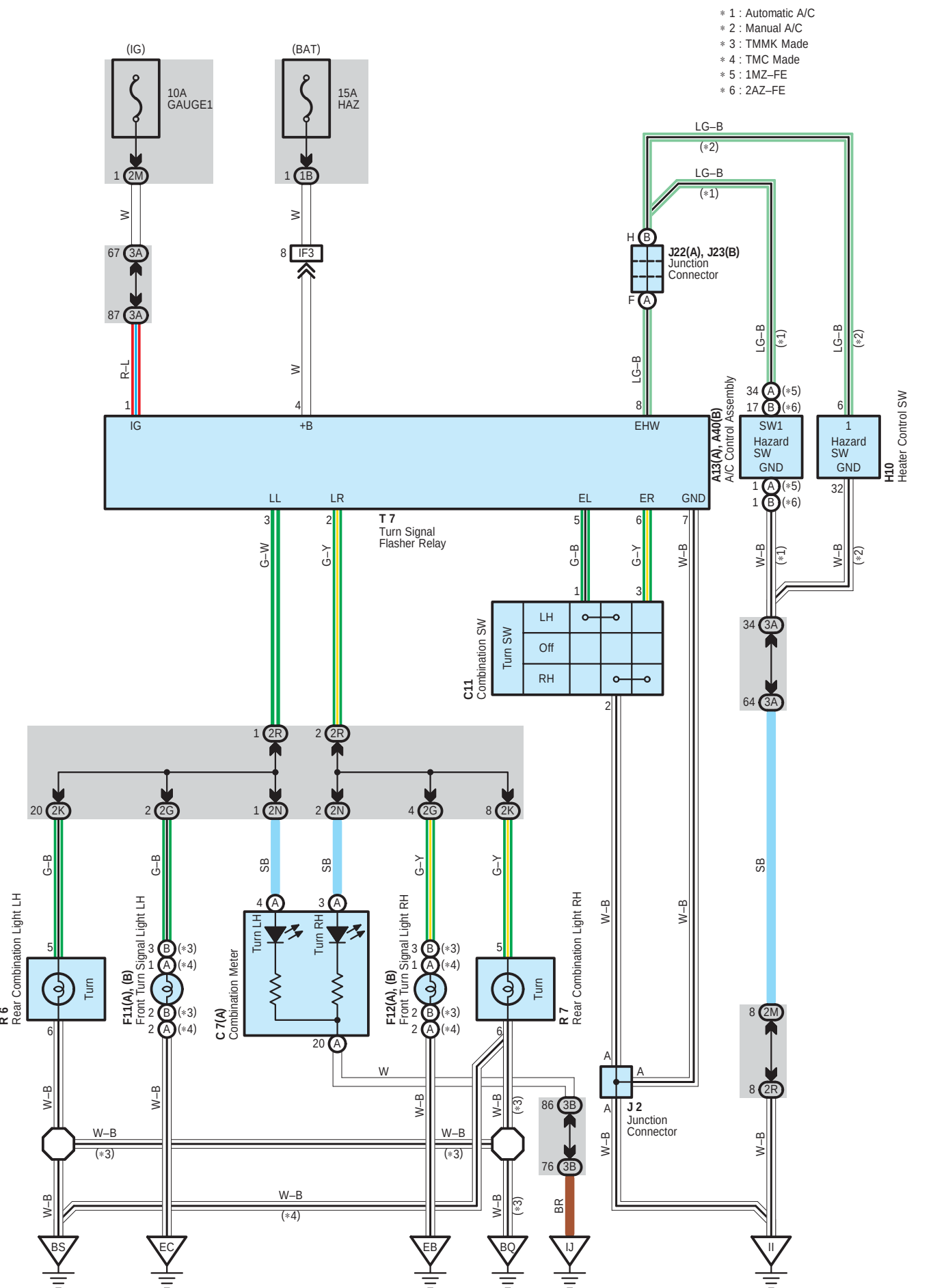
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2		

 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		

Turn Signal and Hazard Warning Light



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A13	A	42	F11	B	40 (*2)	J22	A	43
A40	B	42	F12	A	38 (*1)	J23	B	43
C7	A	42			40 (*2)	R6		45
C11		42		B	38 (*1)	R7		45
F11	A	38 (*1)			40 (*2)	T7		43
		40 (*2)			H10		43	
	B	38 (*1)	J2		43			

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2N		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

 : Connector Joining Wire Harness and Wire Harness

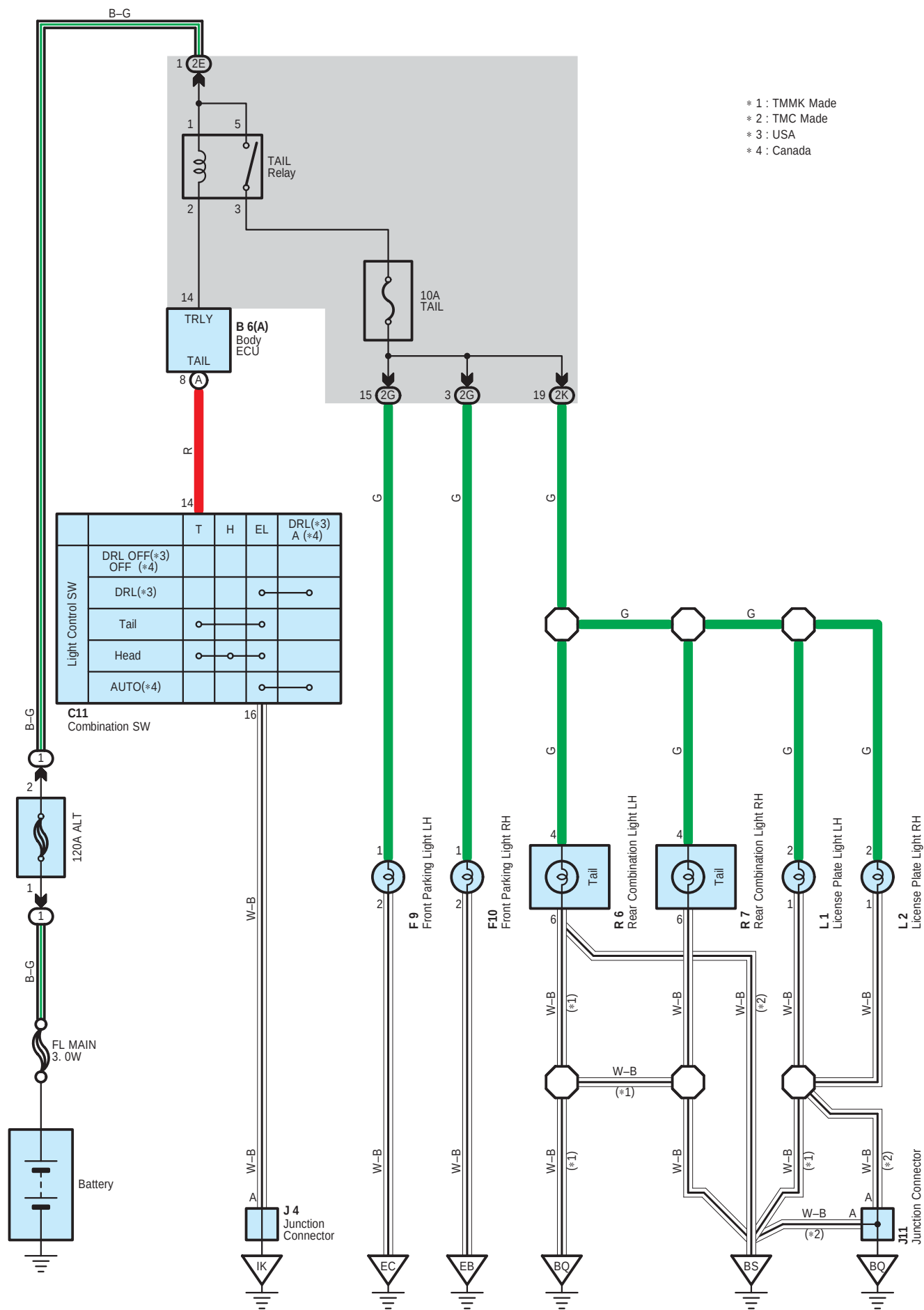
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

 : Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BQ	52	Front Side of Rear Quarter Wheel House LH
BS	52	Lower Back Panel Center

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Taillight



 : Parts Location

Code		See Page	Code	See Page	Code	See Page
B6	A	42	F10	38 (*1)	L1	45
C11		42		40 (*2)	L2	45
F9		38 (*1)	J4	43	R6	45
		40 (*2)	J11	44	R7	45

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

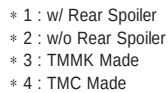
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

 : Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
IK	50	Instrument Panel Brace LH
BQ	52	Front Side of Rear Quarter Wheel House LH
BS	52	Lower Back Panel Center

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



 : Parts Location

Code		See Page	Code	See Page	Code	See Page
H12	A	44	N4	45	S14	43
	B	44	R6	45		
J11		44	R7	45		

 : Junction Block and Wire Harness Connector

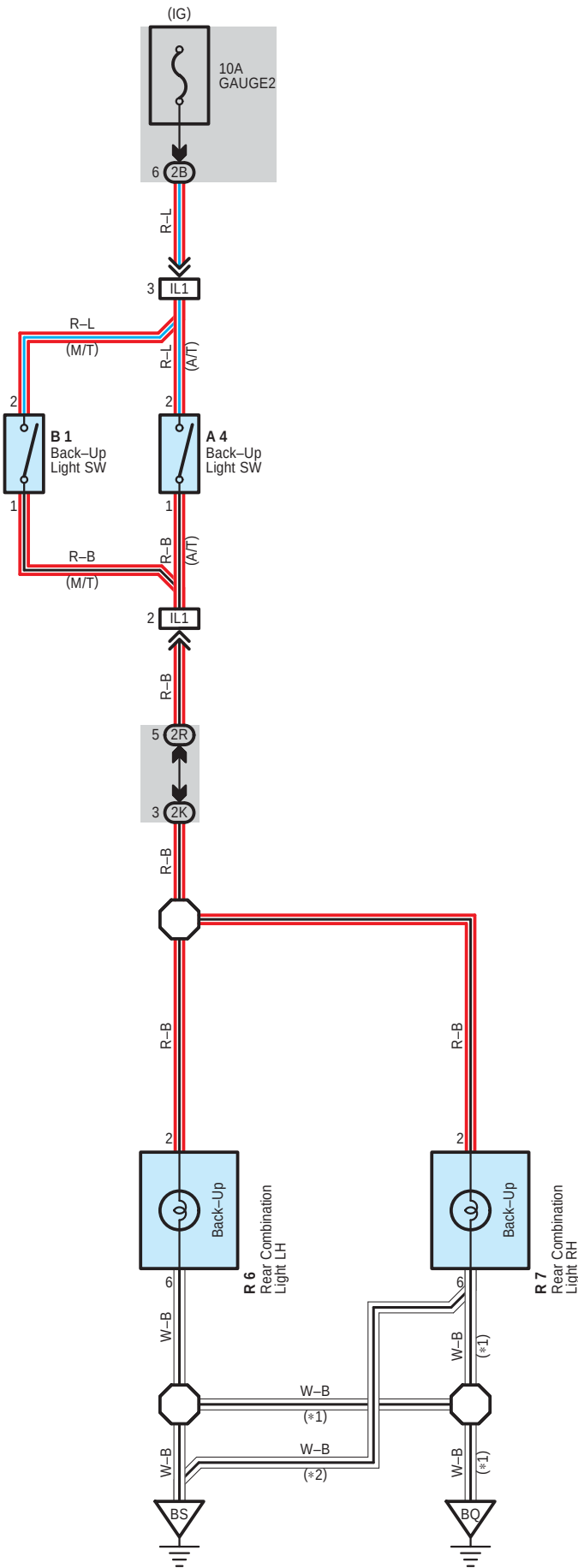
Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

 : Ground Points

Code	See Page	Ground Points Location
BQ	52	Front Side of Rear Quarter Wheel House LH
BS	52	Lower Back Panel Center

Back-Up Light

* 1 : TMMK Made
 * 2 : TMC Made



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	B1	40 (*2)	R7	45
	40 (*2)	R6	45		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

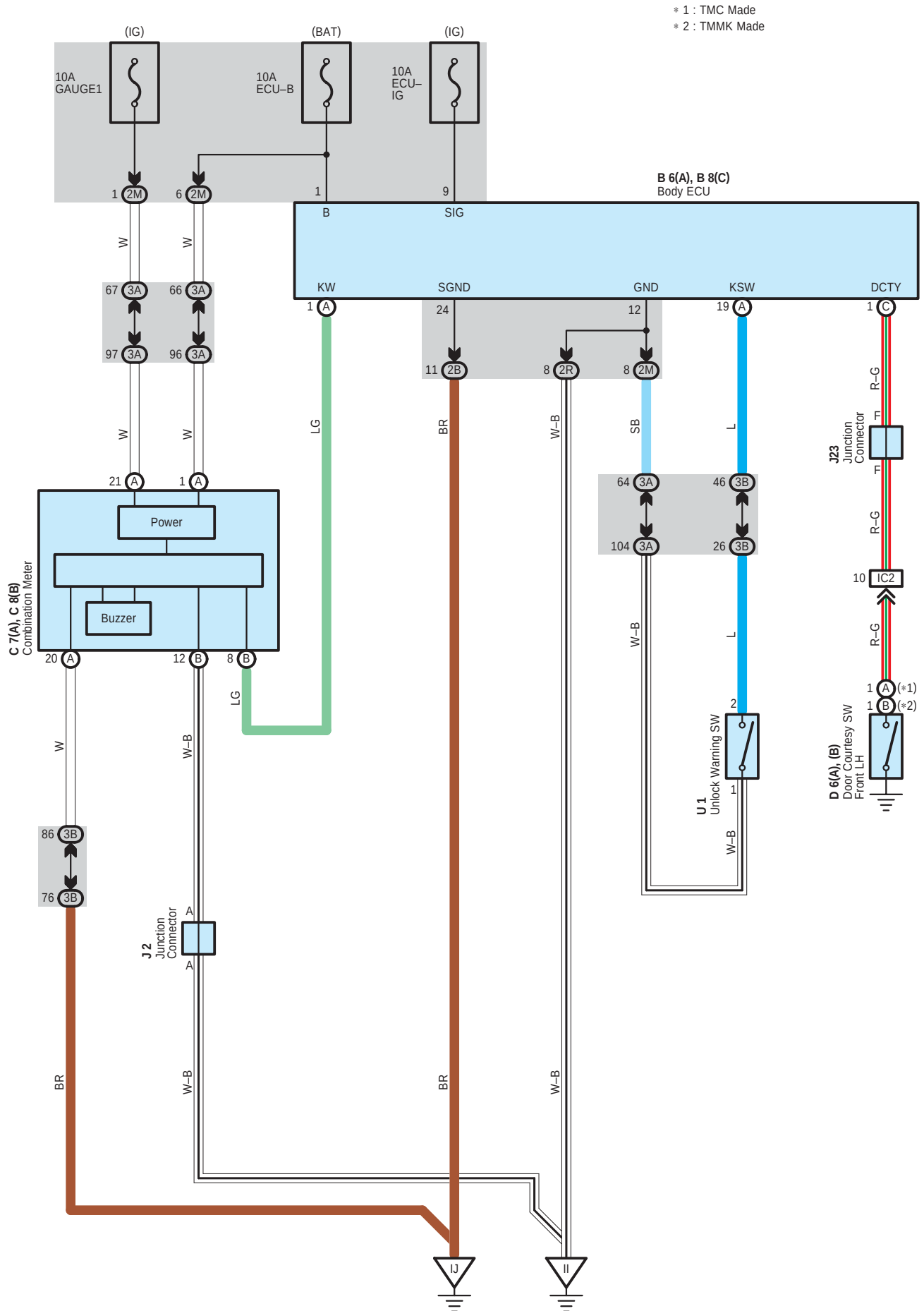
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

 : Ground Points

Code	See Page	Ground Points Location
BQ	52	Front Side of Rear Quarter Wheel House LH
BS	52	Lower Back Panel Center

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Key Reminder



System Outline

Key Reminder System

With the ignition key inserted in the key cylinder (Unlock warning SW on), the ignition SW still off and driver's door open (Door courtesy SW on), when a signal is input to TERMINAL (C) 1 of the body ECU, the body ECU operates, current flows from TERMINAL (A) 1 of the ECU to TERMINAL (B) 8 of the combination meter to GROUND and key reminder buzzer sounds.

○ : Parts Location

Code			See Page			Code			See Page		
B6	A	42				C8	B	42	J2	43	
B8	C	42				D6	A	44	J23	43	
C7	A	42					B	44	U1	43	

□ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M	29	
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

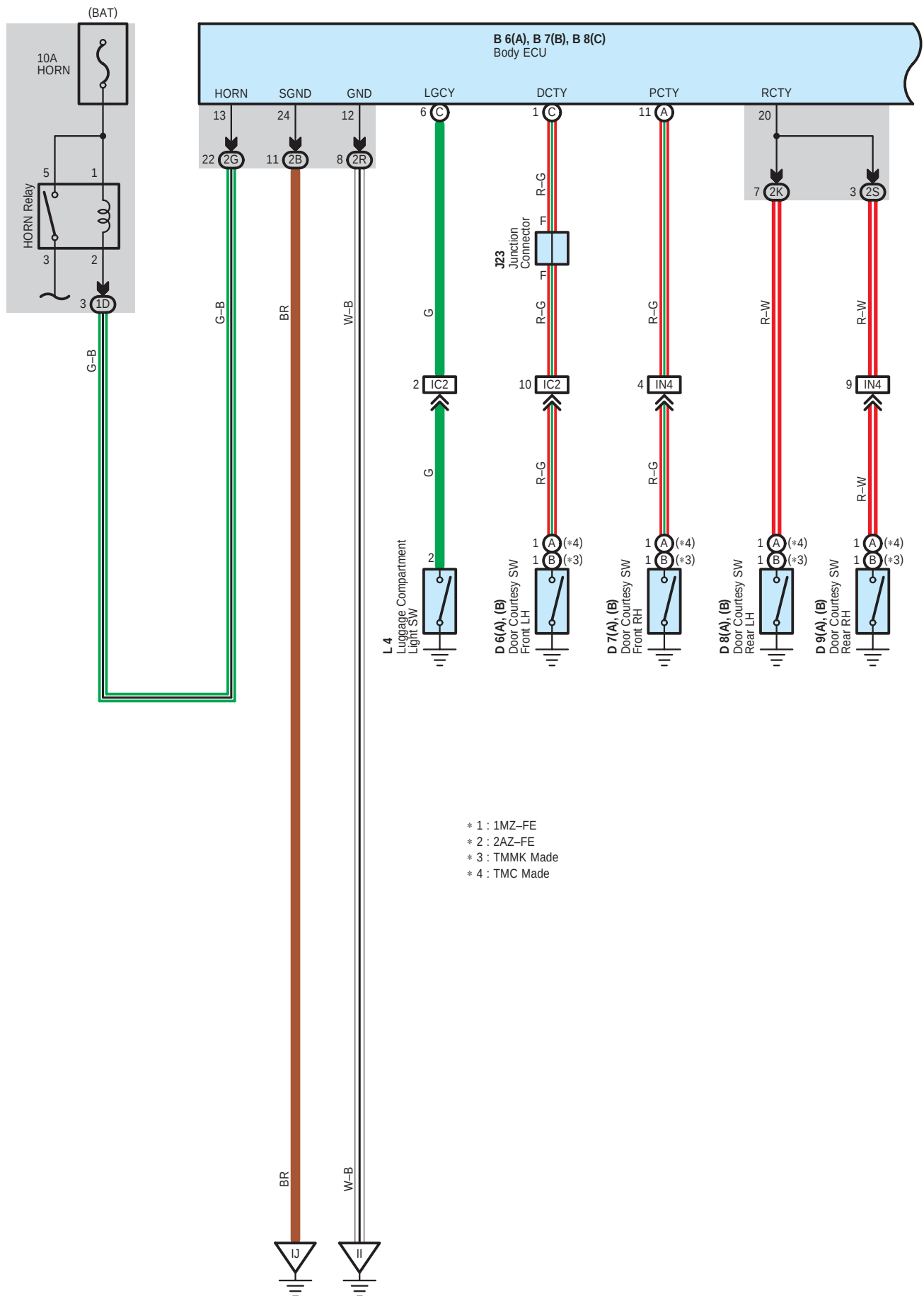
□ : Connector Joining Wire Harness and Wire Harness

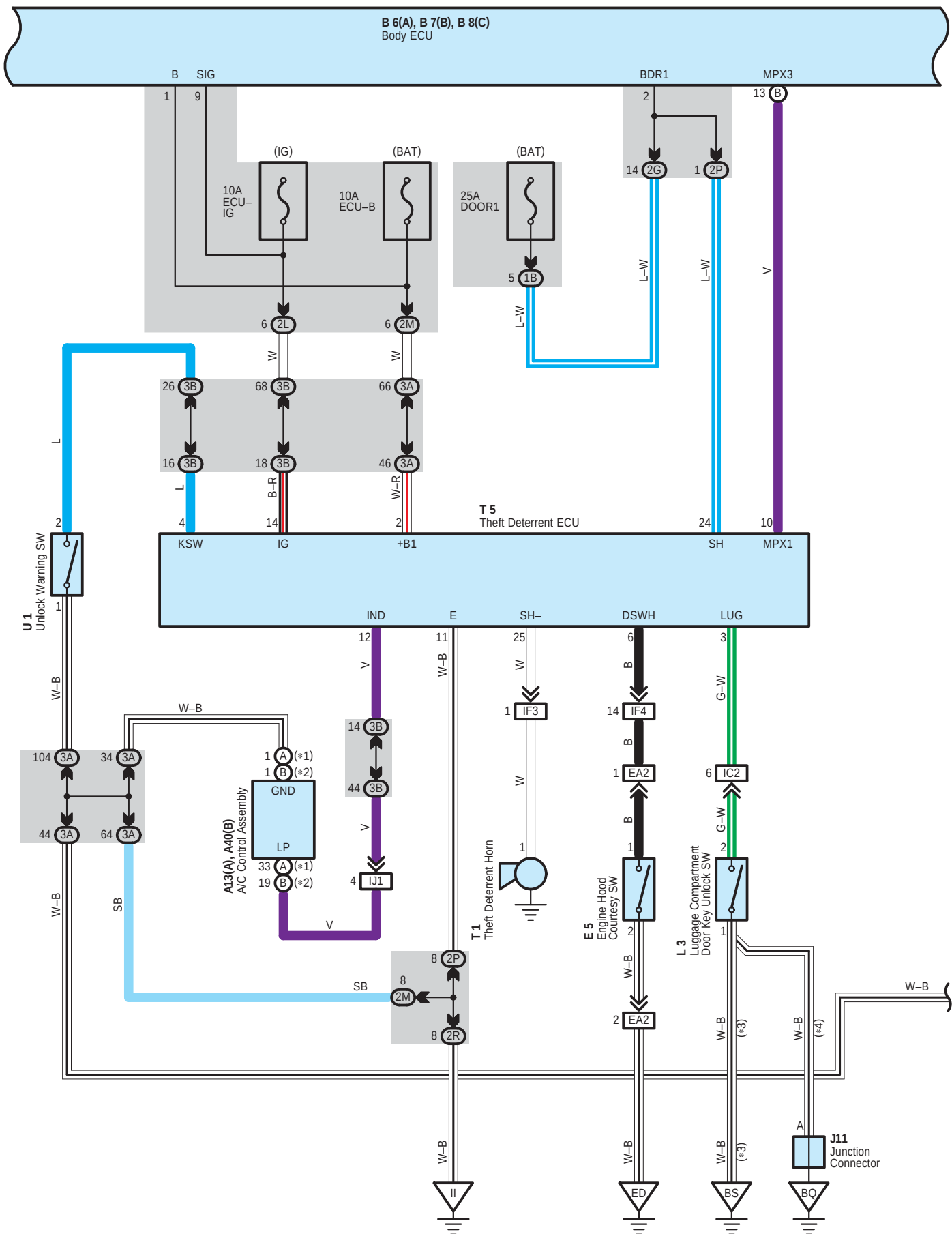
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : Ground Points

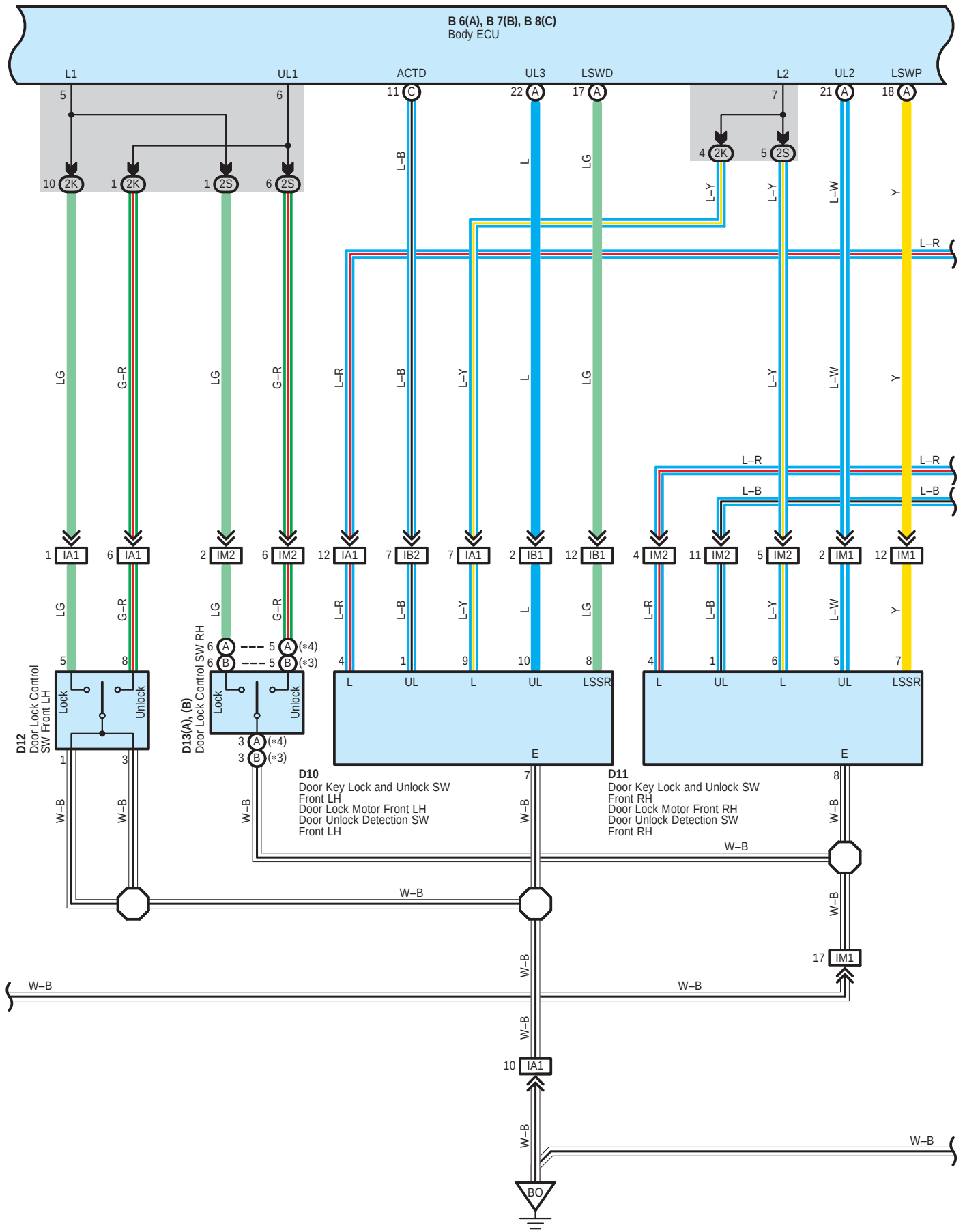
Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH

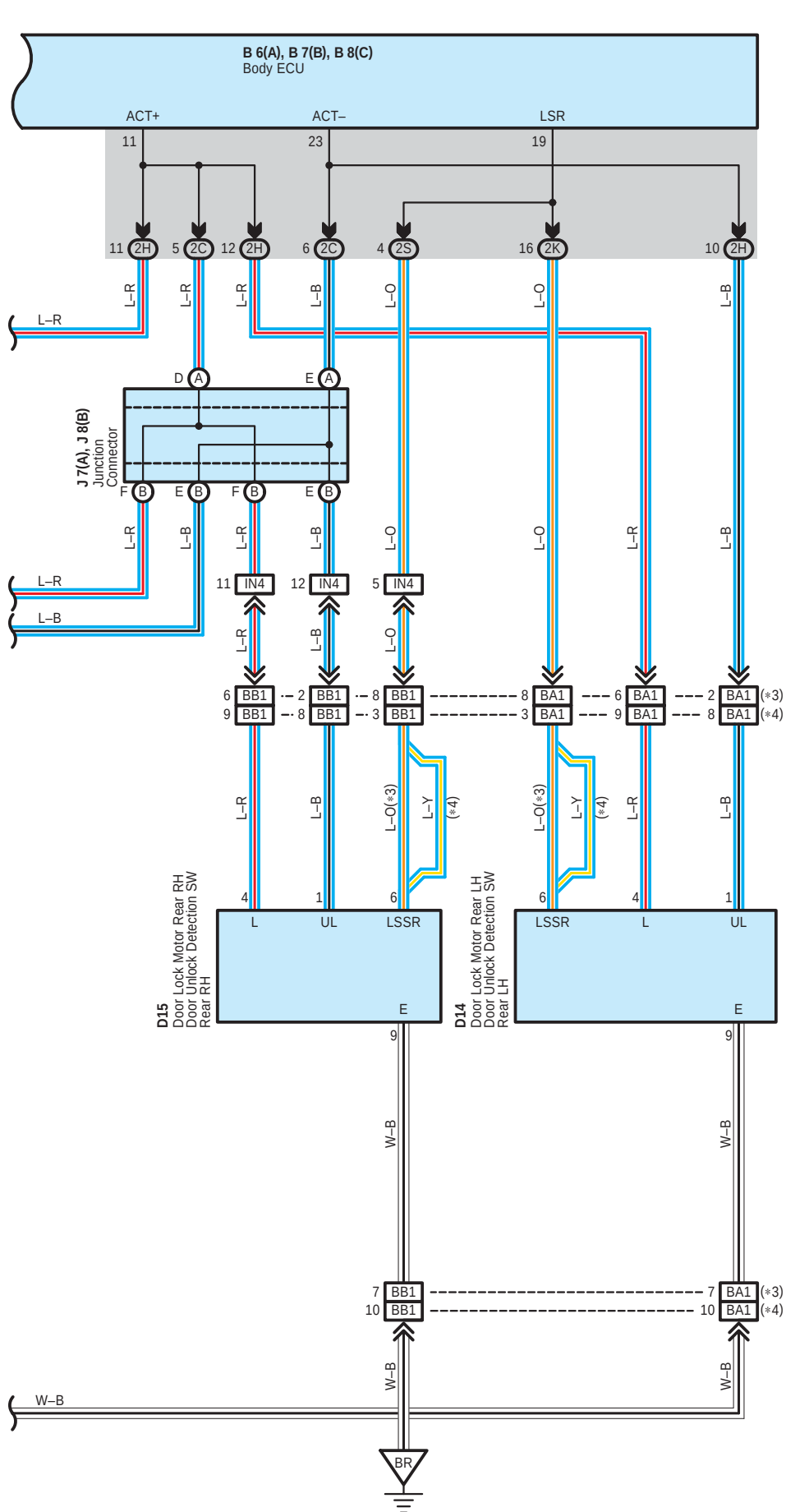
Theft Deterrent and Door Lock Control





Theft Deterrent and Door Lock Control





* 3 : TMMK Made

* 4 : TMC Made

Theft Deterrent and Door Lock Control

System Outline

1. Manual Unlock Operation

When the door lock control SW of the driver's or front passenger's side door is pushed to UNLOCK, the door lock will unlock.

2. Manual Lock Operation

When the door lock control SW of the driver's or front passenger's side door is pushed to LOCK, the door lock will lock.

3. Door Key Unlock Operation

* Unlock operation from driver's side door

When the driver's side door is unlocked once using the ignition key, only the driver's side door is unlocked. If this operation is repeated within 3 seconds, all the other doors are unlocked.

* Unlock operation from front passenger's side door

When the front passenger's side door is unlocked using the ignition key, all the other doors are unlocked, too.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A13	A 42	D9	A 44	J7	A 43
A40	B 42		B 44	J8	B 43
B6	A 42	D10	44	J11	44
B7	B 42	D11	44	J23	43
B8	C 42	D12	44	L3	45
D6	A 44	D13	A 44	L4	45
	B 44		B 44	T1	39 (*1)
D7	A 44	D14	44		41 (*2)
	B 44	D15	44	T5	43
D8	A 44	E5	38 (*1)	U1	43
	B 44		40 (*2)		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2C		
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2P		
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

 : Connector Joining Wire Harness and Wire Harness

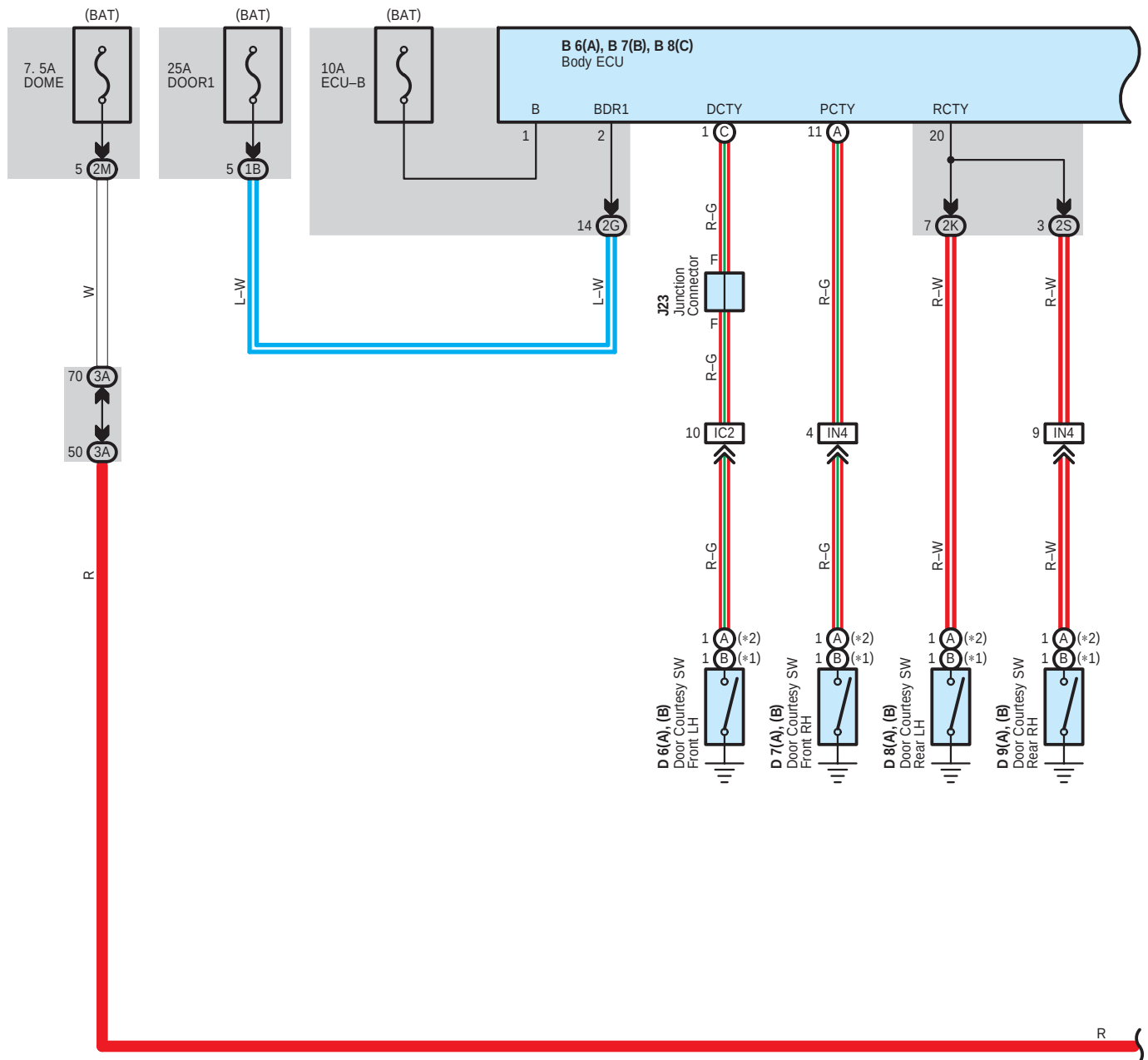
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
BA1	52	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	52	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

 : Ground Points

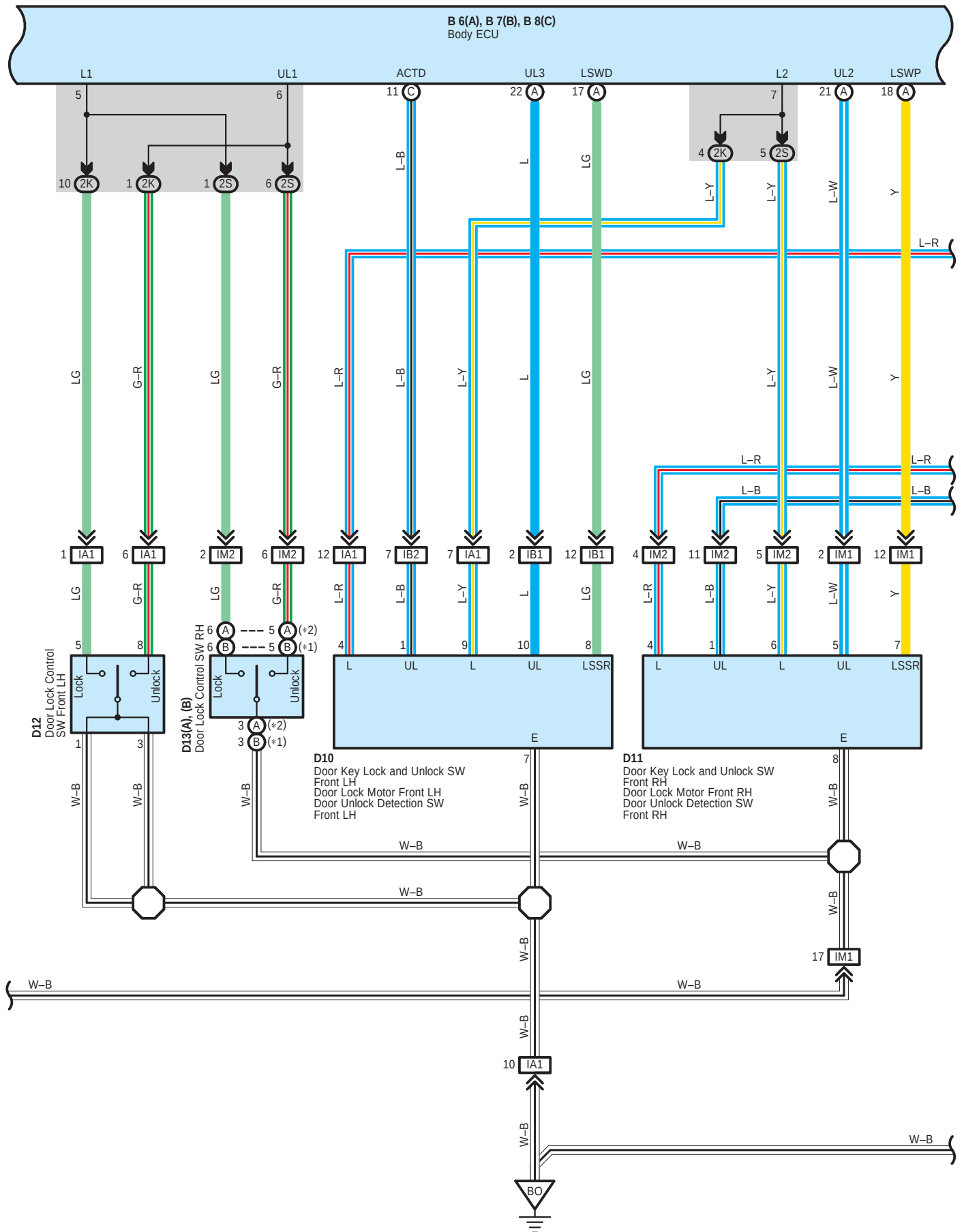
Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat
BQ	52	Front Side of Rear Quarter Wheel House LH
BR	52	Front Side of Rear Quarter Wheel House RH
BS	52	Lower Back Panel Center

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

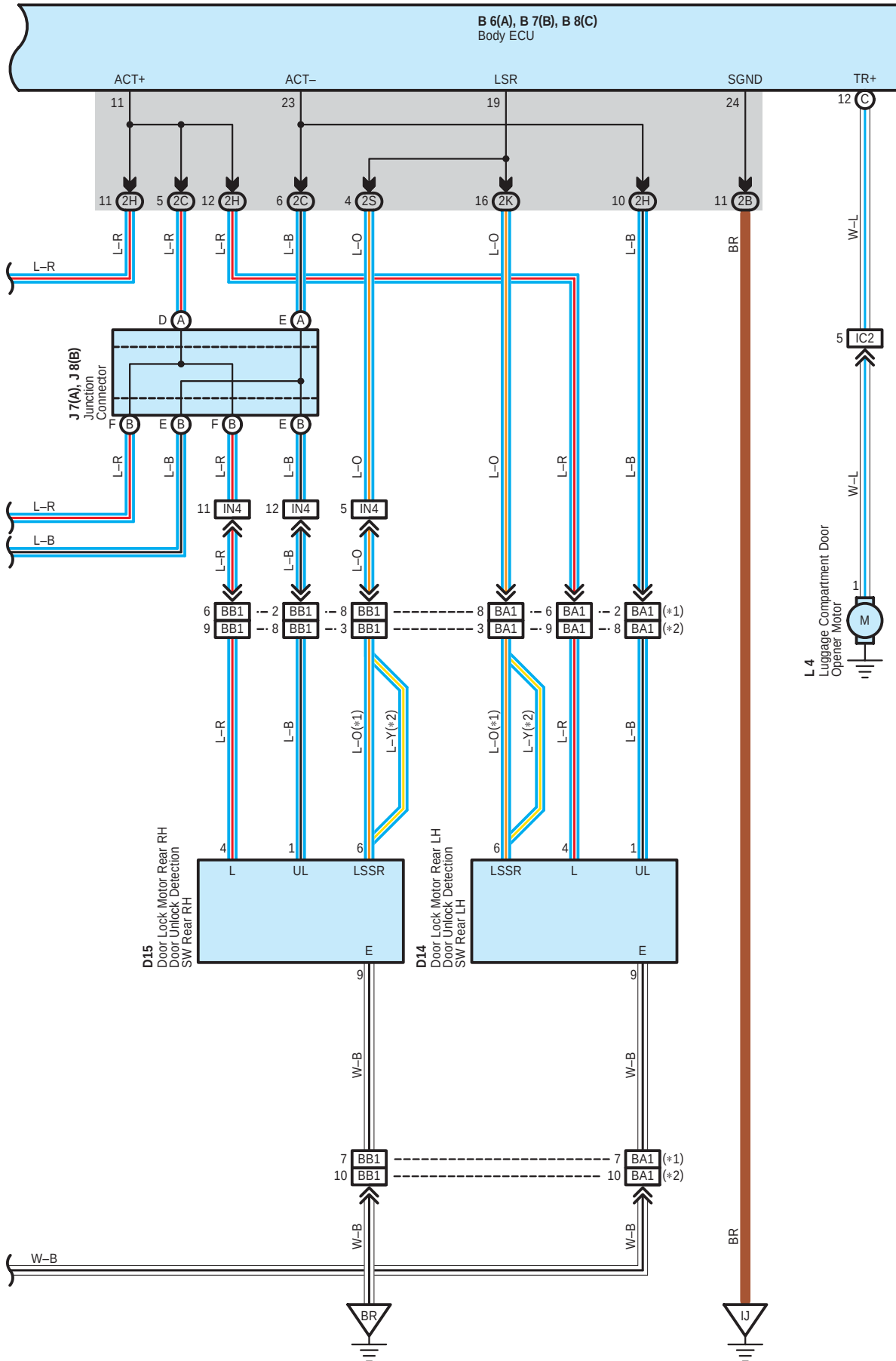
Wireless Door Lock Control



Wireless Door Lock Control



* 1 : TMMK Made
 * 2 : TMC Made



Wireless Door Lock Control

System Outline

Door lock control (Lock and unlock) and panic control (Theft alarm and flash) is performed by remote control, without the ignition key inserted in the door key cylinder, using low-power electrical waves emitted by a transmitter.

1. Wireless Door Lock or Unlock Normal Operation

With the ignition key not inserted into the ignition key cylinder (Unlock warning SW off) and all the doors completely closed, when the lock or unlock button (Transmitter) is pushed, the door control receiver receives the electrical waves from the transmitter, and sends a signal to the body ECU, causing it to operate.

As a result, the body ECU judges whether the door is locked or unlocked based on the signal from the door lock motor and door unlock detection SW, and sends a signal to switch the condition from lock to unlock or vice versa, causing the door lock motor to operate.

2. Visual Confirmation of Lock or Unlock

If all doors indicate that they are locked after the lock command, turn signal light will flash once. If any door indicates that it is open after the unlock command, turn signal light will flash twice.

3. Buzzer Sound Function

If all doors indicate that they are locked after the lock command, the keyless buzzer goes on once. If any door indicates that it is open after the unlock command, the keyless buzzer goes on twice.

4. Illuminated Entry Function

When the body ECU detects the unlock state after the unlock operation has been made, it turns on the lights, such as the ignition key cylinder light and interior light for approx. 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

5. Wireless Door Unlock Operation

Pushing the unlock button (Transmitter) once, driver's door is unlocked. Furthermore, pushing the button again within 3 seconds, the other doors are unlocked.

6. Automatic Lock Operation

With the ignition key not inserted into the ignition key cylinder (Unlock warning SW off) and all the doors completely closed, after pushing the button (Transmitter) to unlock all the doors, if a door is not opened within 30 seconds, all the doors will be automatically relocked.

7. Wireless Control Stop Function

If a door is open (Door courtesy SW on), a signal is input from the door courtesy SW to the body ECU stopping wireless door lock or unlock.

If the ignition key is in the ignition key cylinder (Unlock warning SW on), the unlock warning SW inputs a signal to the body ECU stopping wireless door lock or unlock.

8. Repeat Function

If the door lock or unlock condition does not change after wireless door lock or unlock operation, 2 seconds later, the body ECU sends current again to the door lock motor.

9. Remote Panic Operation

Panic will function when doors are locked or unlocked, open or closed. When the panic button (Transmitter) is pushed once, theft alarm and horn sounds and turn signal light, headlights and taillight flash. Then, the panic or the unlock button (Transmitter) is pushed once more, sounding and flashing will stop. Panic will not function when ignition key is in ignition key cylinder.

○ : Parts Location

Code			See Page			Code			See Page		
B6	A	42	D9	A	44	J8	B	43			
B7	B	42		B	44	J22				43	
B8	C	42	D10		44	J23				43	
D5		44	D11		44	K1				39 (*1)	
D6	A	44	D12		44					41 (*2)	
	B	44	D13	A	44	L4				45	
D7	A	44		B	44	T7				43	
	B	44	D14		44	U1				43	
D8	A	44	D15		44						
	B	44	J7	A	43						

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2C		
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

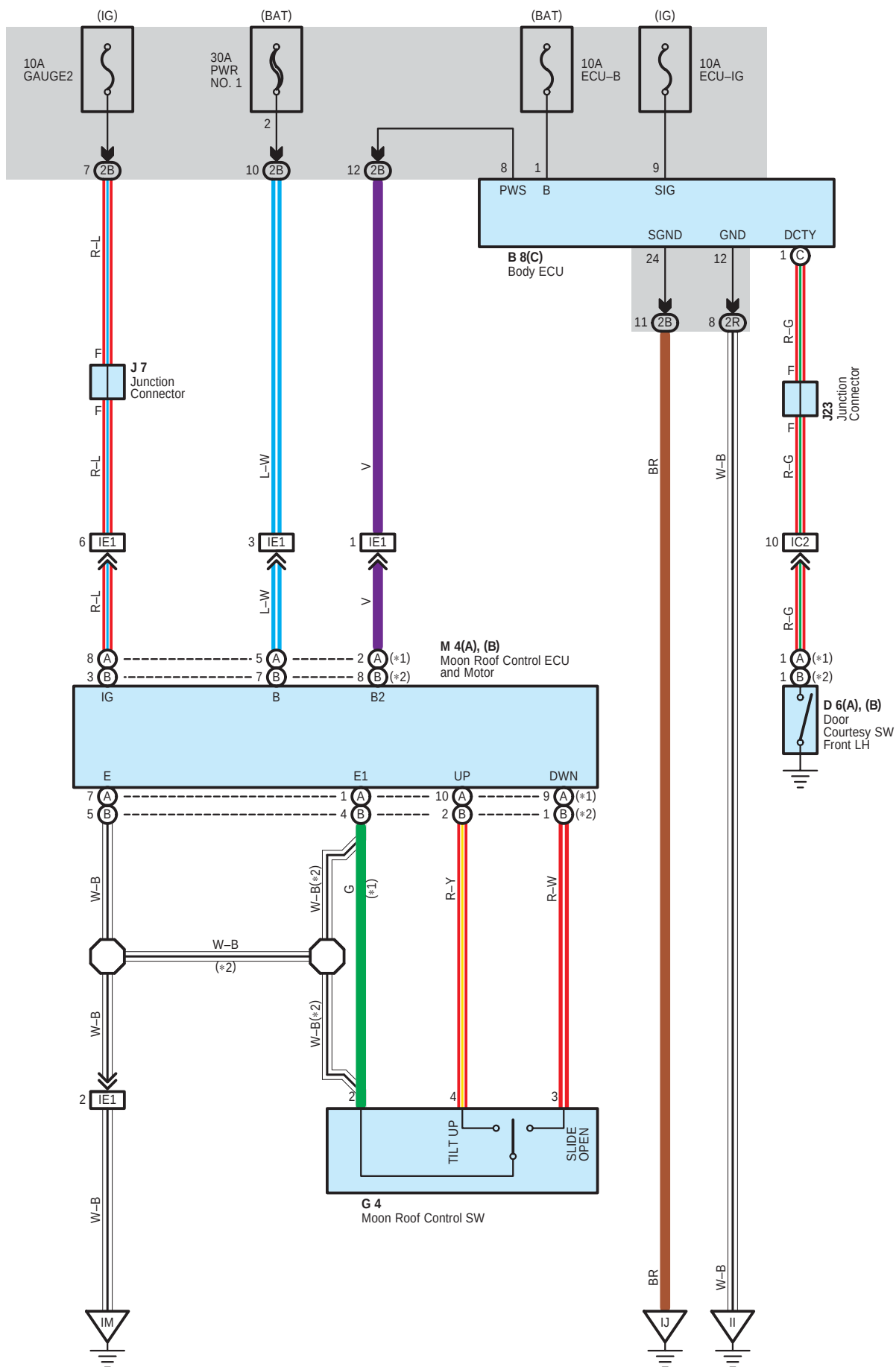
**: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
IN3	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IN4		
BA1	52	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	52	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

**: Ground Points**

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat
BR	52	Front Side of Rear Quarter Wheel House RH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



 : Parts Location

Code		See Page	Code	See Page	Code		See Page
B8	C	42	G4	44	M4	A	45
D6	A	44	J7	43		B	45
D6	B	44	J23	43			

 : Junction Block and Wire Harness Connector

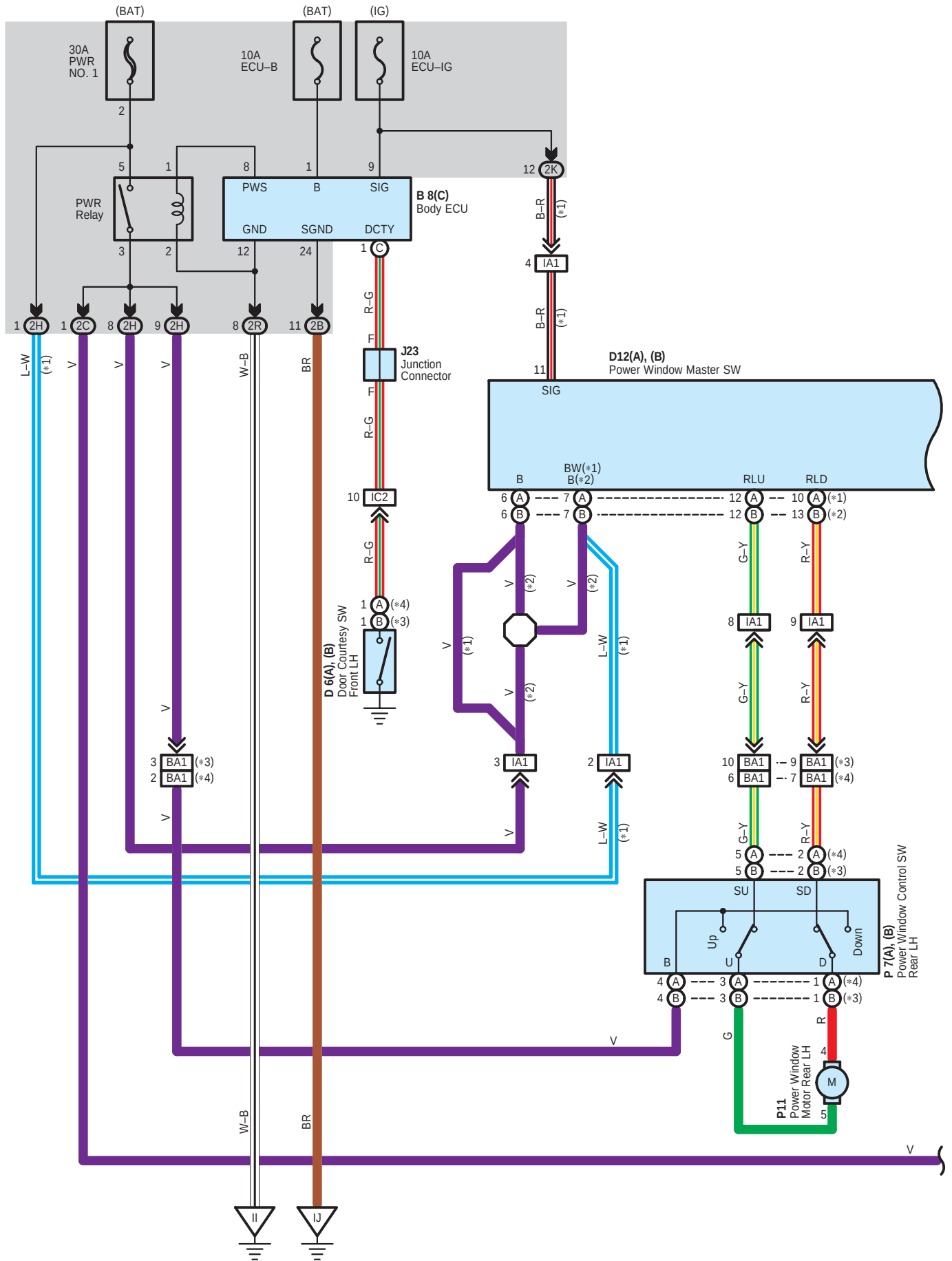
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R	29	

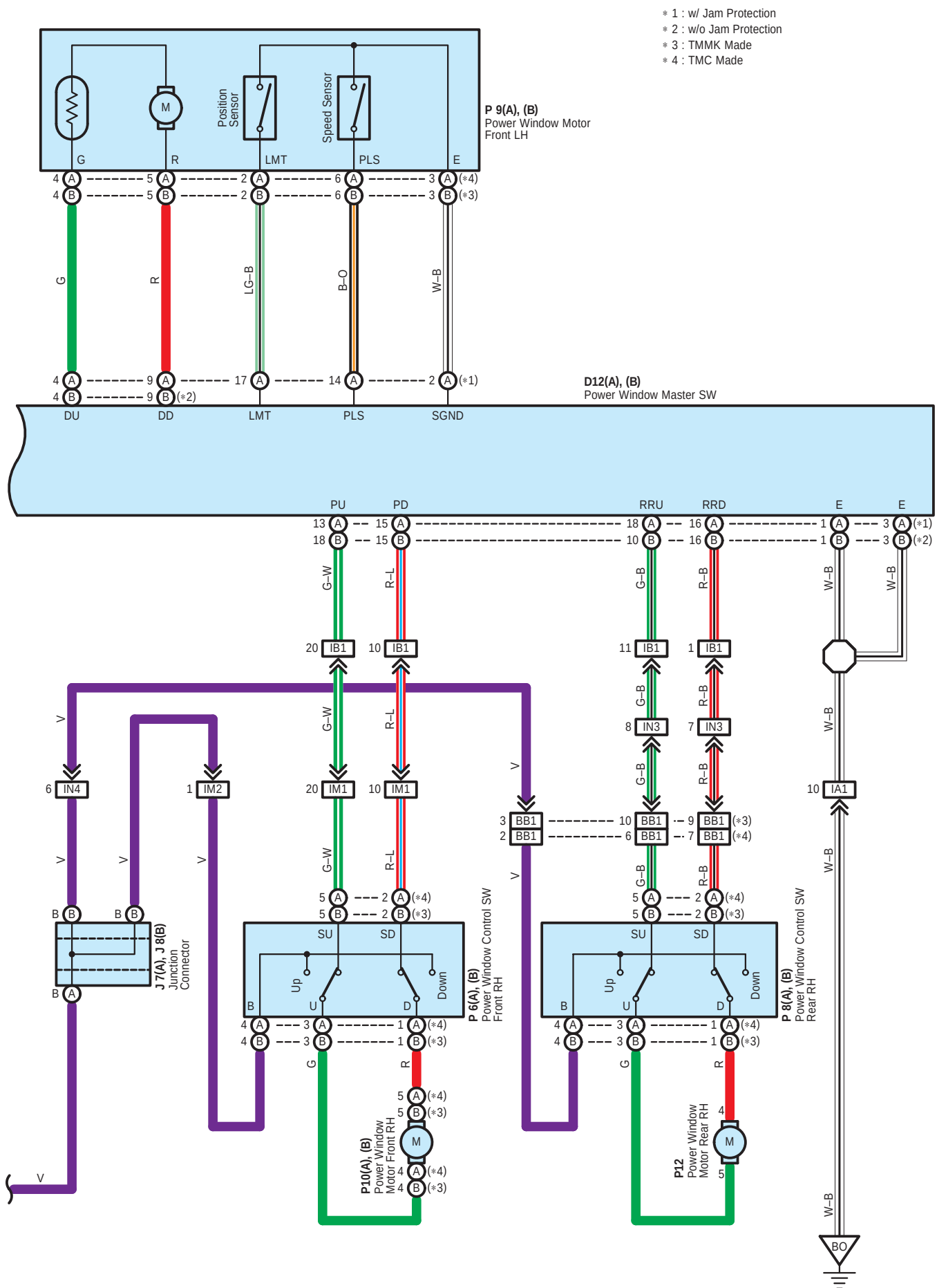
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)

 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IM	50	Instrument Panel Reinforcement RH





System Outline

1. Manual Operation (Driver's Window)

With the ignition SW turned on and with the power window master SW in UP position, the current flowing from TERMINAL B or BW of the power window master SW flows to TERMINAL DU of the master SW to TERMINAL 4 of the power window motor to TERMINAL 5 to TERMINAL DD of the master SW to TERMINAL E to GROUND and causes the power window motor to rotate in the up direction. The window ascends only while the SW is being pushed.

In down operation, the flow of current from TERMINAL B or BW of the power window master SW to TERMINAL DD of the master SW causes the flow of current from TERMINAL 5 of the power window motor to TERMINAL 4 to TERMINAL DU of the master SW to TERMINAL E to GROUND, flowing in the opposite direction to manual up operation and causing the motor to rotate in reverse, lowering the window.

2. Auto Down Operation (Driver's Window)

When the driver's window SW is pushed strongly to the down side, the current flowing to TERMINAL B or BW of the power window master SW flows to the down contact point and auto down contact point of the driver's SW.

This activates the relay (Down side) inside the power window master SW and the hold circuit also turns on at the same time, so the relay (Down side) remains activated even when the SW is released.

Current flows at this time from TERMINAL B or BW of the power window master SW to TERMINAL DD to TERMINAL 5 of the power window motor to TERMINAL 4 to TERMINAL DU of the power window master SW to TERMINAL E to GROUND, so the motor continues to operate until the driver's window is fully down.

When the driver's window finishes down operation and the hold circuit goes off, so the relay (Down side) also turns off. This stops the current flowing from TERMINAL B or BW of the power window master SW to TERMINAL DD is cut off, so the power window motor stops and auto down operation stops.

When the driver's SW is pulled to the up side during auto down operation, the hold circuit is turned off so the current flowing from TERMINAL B or BW of the power window master SW to TERMINAL DD is cut off and the power window motor stops. If the SW remains pulled up the relay (Up side) is activated, so current flows from TERMINAL B or BW of the power window master SW to TERMINAL DU to TERMINAL 4 of the power window motor to TERMINAL 5 to TERMINAL DD to TERMINAL E to GROUND, the power window motor rotates in the up direction and manual up operation occurs while the SW is pulled up.

3. Manual Operation (Front RH Window)

With the power window control SW front RH pulled to the up side, the current flowing from TERMINAL 4 of the power window control SW flows to TERMINAL 3 of the power window control SW to TERMINAL 4 of the power window motor to TERMINAL 5 to TERMINAL 1 of the power window control SW to TERMINAL 2 to TERMINAL PD of the master SW to TERMINAL E to GROUND and causes the power window motor front RH to rotate in the up direction. The up operation continues only while the power window control SW is pulled to the up side. When the window descends, the current flowing to the motor flows in the opposite direction, from TERMINAL 5 to TERMINAL 4, and the motor rotates in reverse. When the window lock SW is pushed to the lock side, the ground circuit to the front RH window becomes open.

As a result, even if Open/Close operation of the front RH window is tried, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the front RH window can not be operated and window lock occurs.

4. Manual Operation (Rear LH, RH Window)

With the power window control SW rear LH, RH pulled to the up side, the current flowing from TERMINAL 4 of the power window control SW flows to TERMINAL 3 of the power control SW to TERMINAL 5 of the power window motor to TERMINAL 4 to TERMINAL 1 of the power window control SW to TERMINAL 2 to TERMINAL RLD or RRD of the master SW to TERMINAL E to GROUND and causes the power window motor rear LH, RH to rotate in the up direction. The up operation continues only while the power window control SW is pulled to the up side. When the window descends, the current flowing to the motor flows in the opposite direction, from TERMINAL 4 to TERMINAL 5, and the motor rotates in reverse. When the window lock SW is pushed to the lock side, the ground circuit to the rear LH, RH window becomes open.

As a result, even if Open/Close operation of the rear LH, RH window is tried, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the rear LH, RH window can not be operated and window lock occurs.

5. Key Off Power Window Operation

With the ignition SW turned from on to off, the body ECU operates and current flows from the ECU-B fuse to TERMINAL 1 of the body ECU to TERMINAL 8 to TERMINAL 1 of the PWR relay to TERMINAL 2 to GROUND for about 43 seconds. The same as normal operation, the current flows from the PWR NO.1 fuse to TERMINAL 5 of the PWR relay to TERMINAL 3 to TERMINAL B or BW of the power window master SW and TERMINAL 4 (Front RH, Rear LH, RH) of the power window control SW. As a result, for about 43 seconds after the ignition SW is turned off, the functioning of this ECU makes it possible to raise and lower the power window. Also, by opening the front door LH (Door courtesy SW on) within about 43 seconds after turning the ignition SW to off, a signal is input to TERMINAL (C) 1 of the body ECU. As a result, the PWR relay turned off, and up and down movement of the power window stops.

 : Parts Location

Code		See Page	Code		See Page	Code		See Page
B8	C	42	J23		43	P9	A	45
D6	A	44	P6	A	45		B	45
	B	44		B	45	P10	A	45
D12	A	44	P7	A	45		B	45
	B	44		B	45	P11		45
J7	A	43	P8	A	45	P12		45
J8	B	43		B	45			

 : Junction Block and Wire Harness Connector

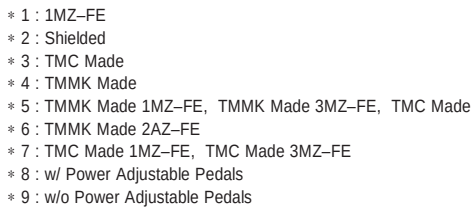
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2C		
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

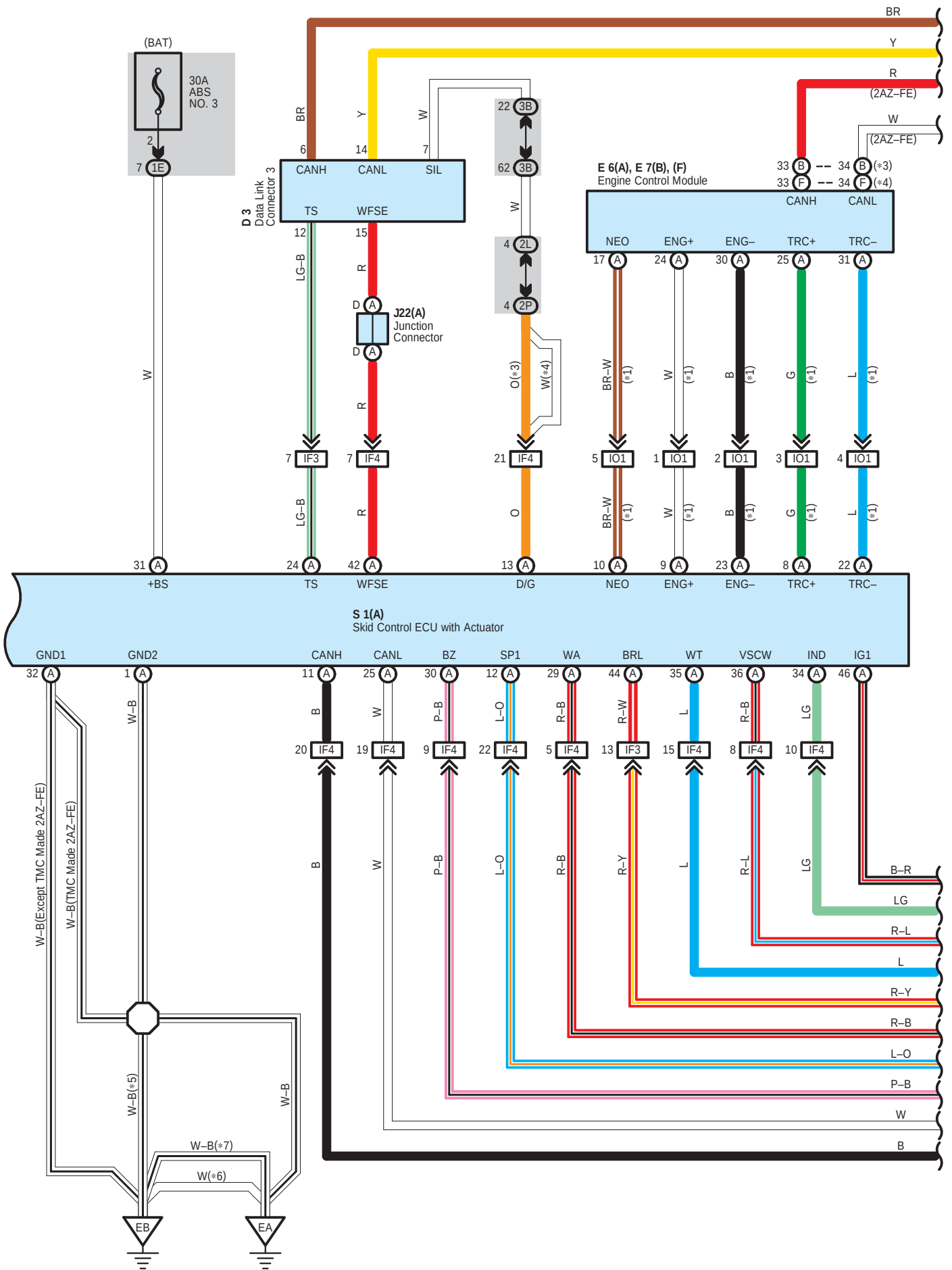
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
IN3	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IN4		
BA1	52	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	52	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

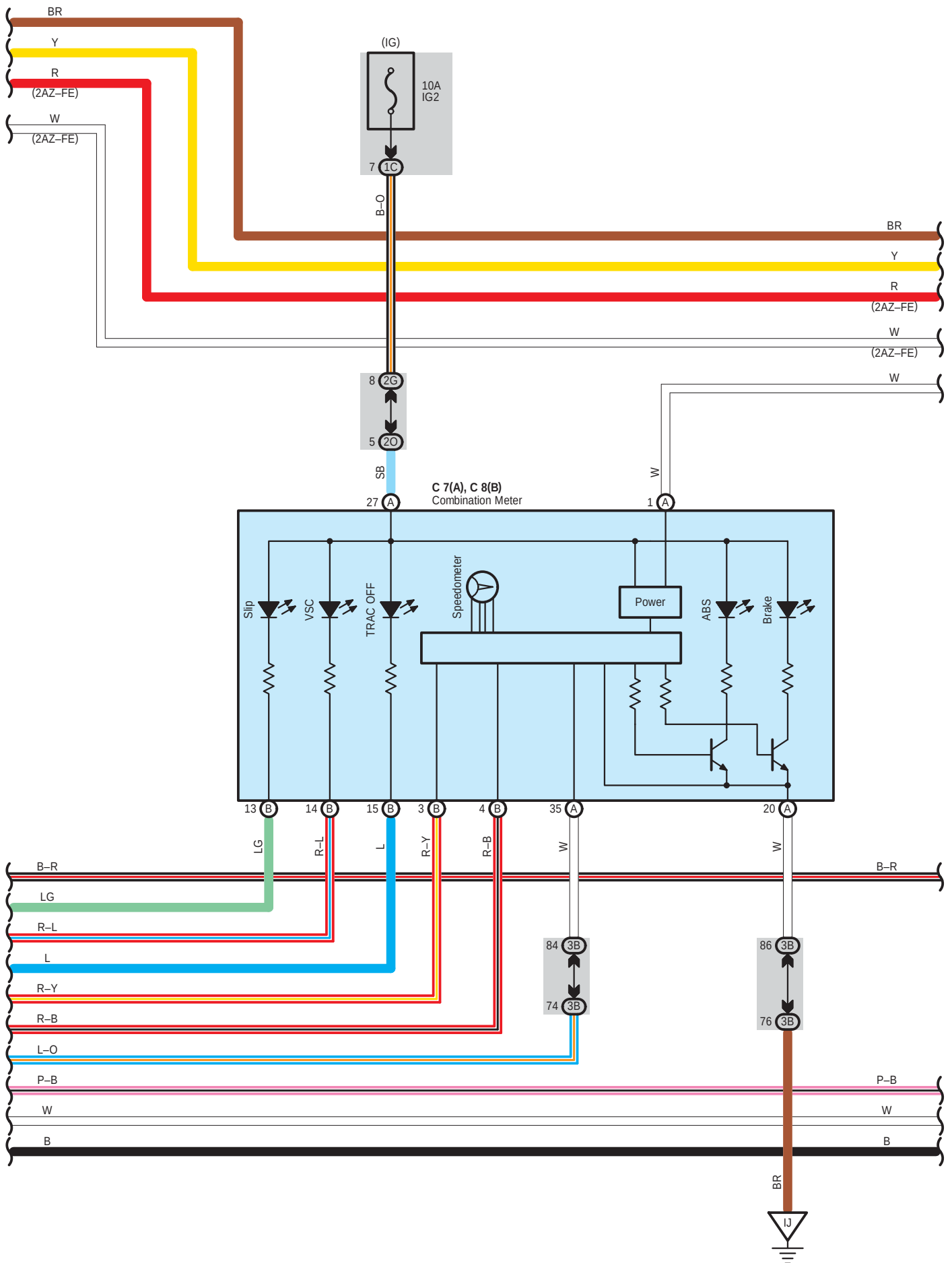
 : Ground Points

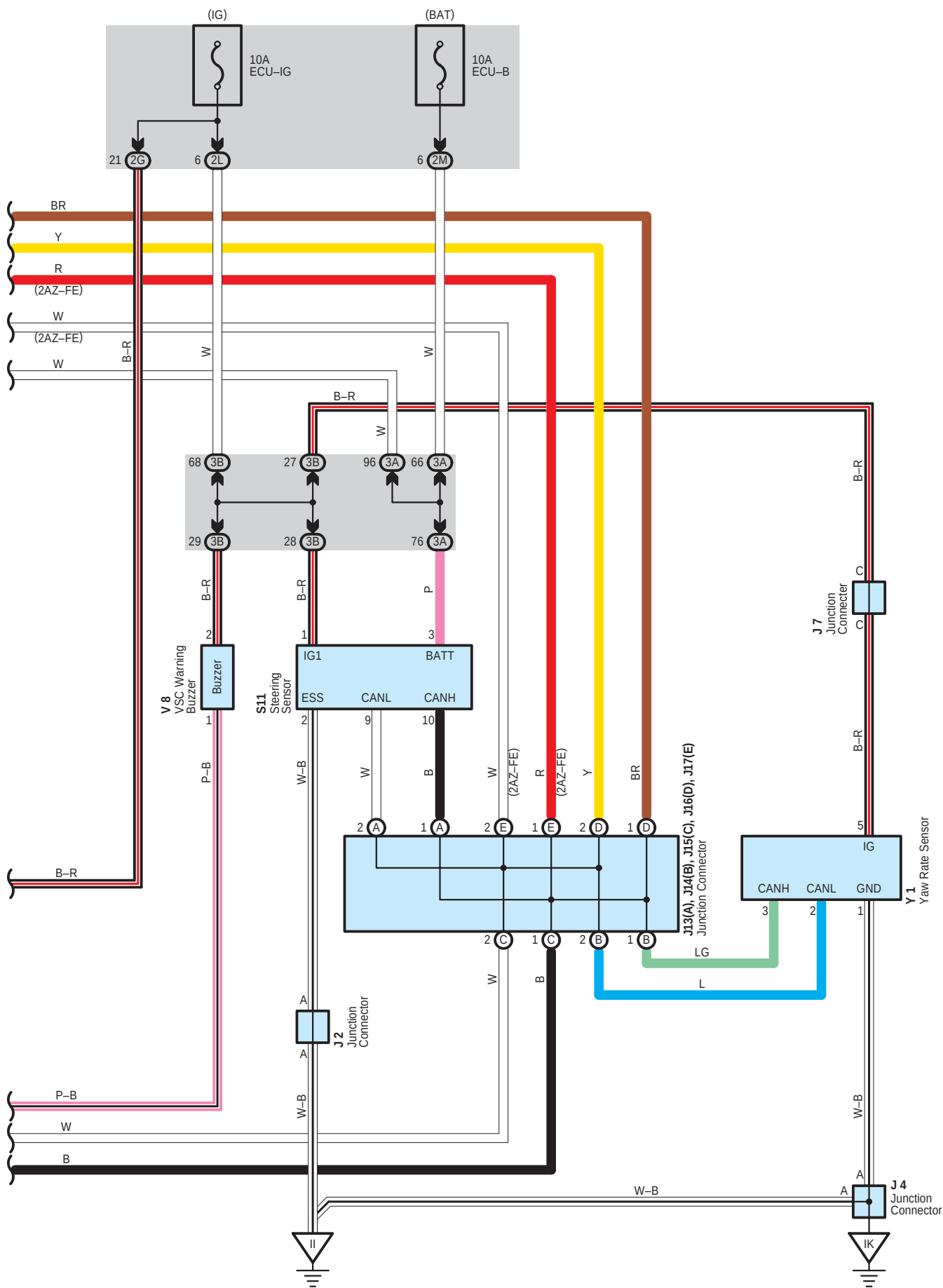
Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat





ABS, TRAC and VSC





System Outline

The vehicle could be in an extreme over steering or under steering tendency due to unexpected accidents, road conditions, vehicle speed, or by other external factors. In such a case, this system automatically controls the engine output and the braking to each wheel, to decrease the extreme over steering and under steering.

* To decrease extreme over steering tendency

When the system determines that the over steering tendency is large, the system applies brakes to the outer wheels according to the degree of over steering, and creates a moment towards the outer side of the vehicle, to decrease the tendency of over steering. Also, when the brakes are applied, the vehicle speed decreases while the stability increases.

* To decrease extreme under steering tendency

When the system determines that the under steering tendency is large, the system applies brakes to the front or rear wheels according to the degree of under steering, to decrease the tendency of under steering.

* TRAC off SW

The SW to send the traction control system into OFF mode. When the SW is pushed after starting the engine, the system will be in OFF mode, and the TRAC OFF indicator light will turn on. When the SW is pushed again, the system will be in standby mode. When the engine is stopped and re-started, regardless of the TRAC off SW, the system will be in standby mode.

Information to the driver

The VSC system informs the driver when the tire grip is about to exceed its grip capacity, by blinking the slip indicator light and emitting an intermittent sound of the buzzer. Accordingly, the driver is informed to drive more gently.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	E7	B 42	P3	A 43
	40 (*2)		F 42		B 43
A6	38 (*1)	J2	43	S1	A 39 (*1)
	40 (*2)	J4	43		41 (*2)
A7	38 (*1)	J7	43	S11	43
	40 (*2)	J13	A 36, 43	S14	43
A32	44	J14	B 36, 43	T6	A 43
A33	44	J15	C 36, 43		B 43
C7	A 42	J16	D 36, 43	V8	43
C8	B 42	J17	E 36, 43	Y1	43
D3	42	J22	A 43		
E6	A 42	J23	B 43		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)
2	23	ABS R/B (Radiator Side Support LH)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

 : Connector Joining Wire Harness and Wire Harness

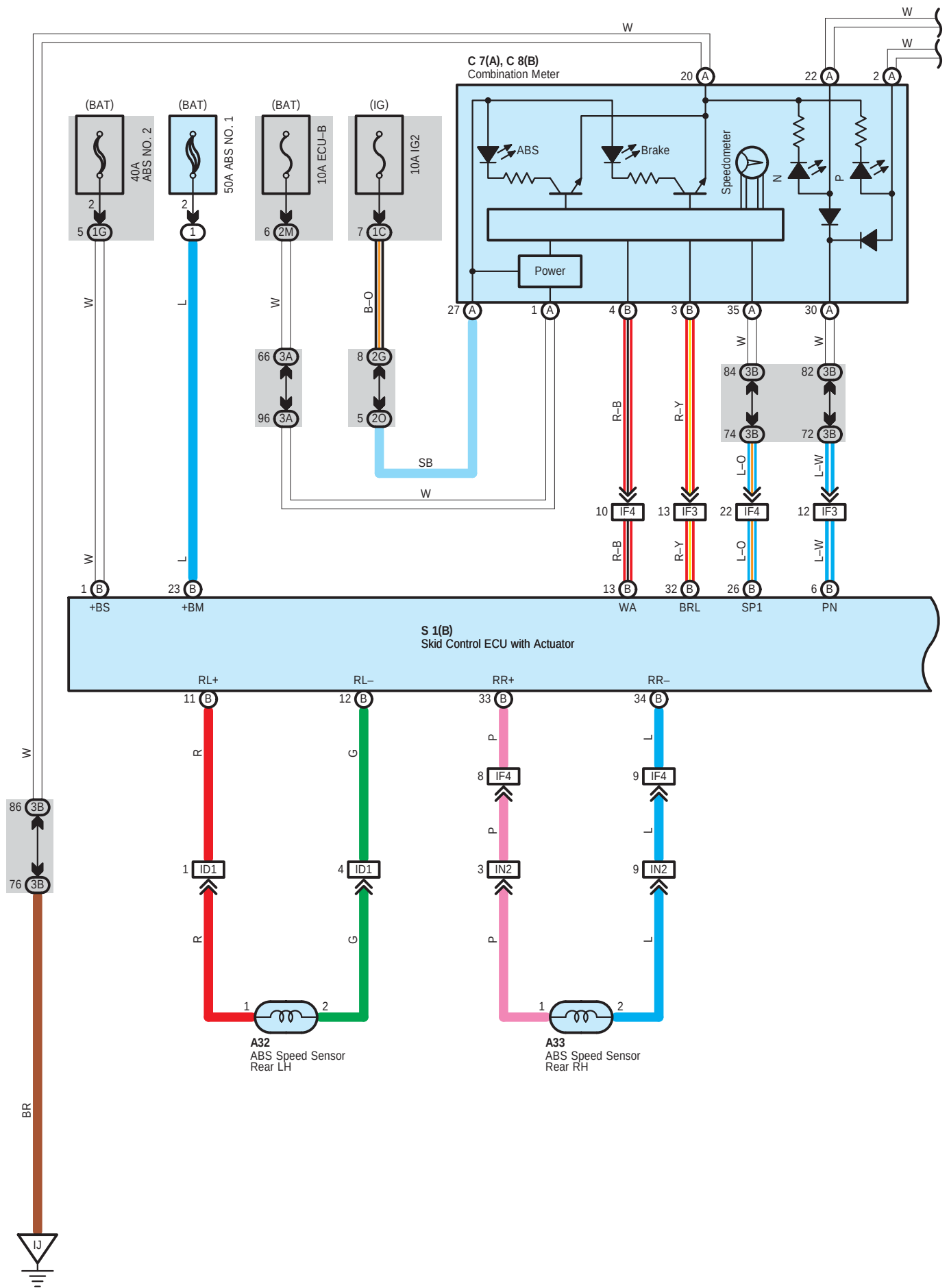
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF4		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IO1	51	Engine Room Main Wire and Engine Room Main Wire (Right Side of the Instrument Panel)

 : Ground Points

Code	See Page	Ground Points Location
EA	48 (*1)	Right Fender
	49 (*2)	
EB	48 (*1)	
	49 (*2)	
ED	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		
IM	50	Instrument Panel Reinforcement RH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

ABS (TMC Made)



System Outline

This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.

1. Input Signals

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS 9, 11, 31 and 33 of the skid control ECU with actuator.

(2) Stop light SW signal

A signal is input to TERMINAL 10 of the skid control ECU with actuator when the brake pedal is depressed.

2. System Operation

During sudden braking the skid control ECU with actuator has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.

If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the skid control ECU with actuator, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	A32	44	J23	B 43
	40 (*2)	A33	44	P3	A 43
A6	38 (*1)	C7	A 42	S1	B 43
	40 (*2)	C8	B 42		39 (*1)
A7	38 (*1)	D3	42	S14	41 (*2)
	40 (*2)	J22	A 43		43

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1G		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

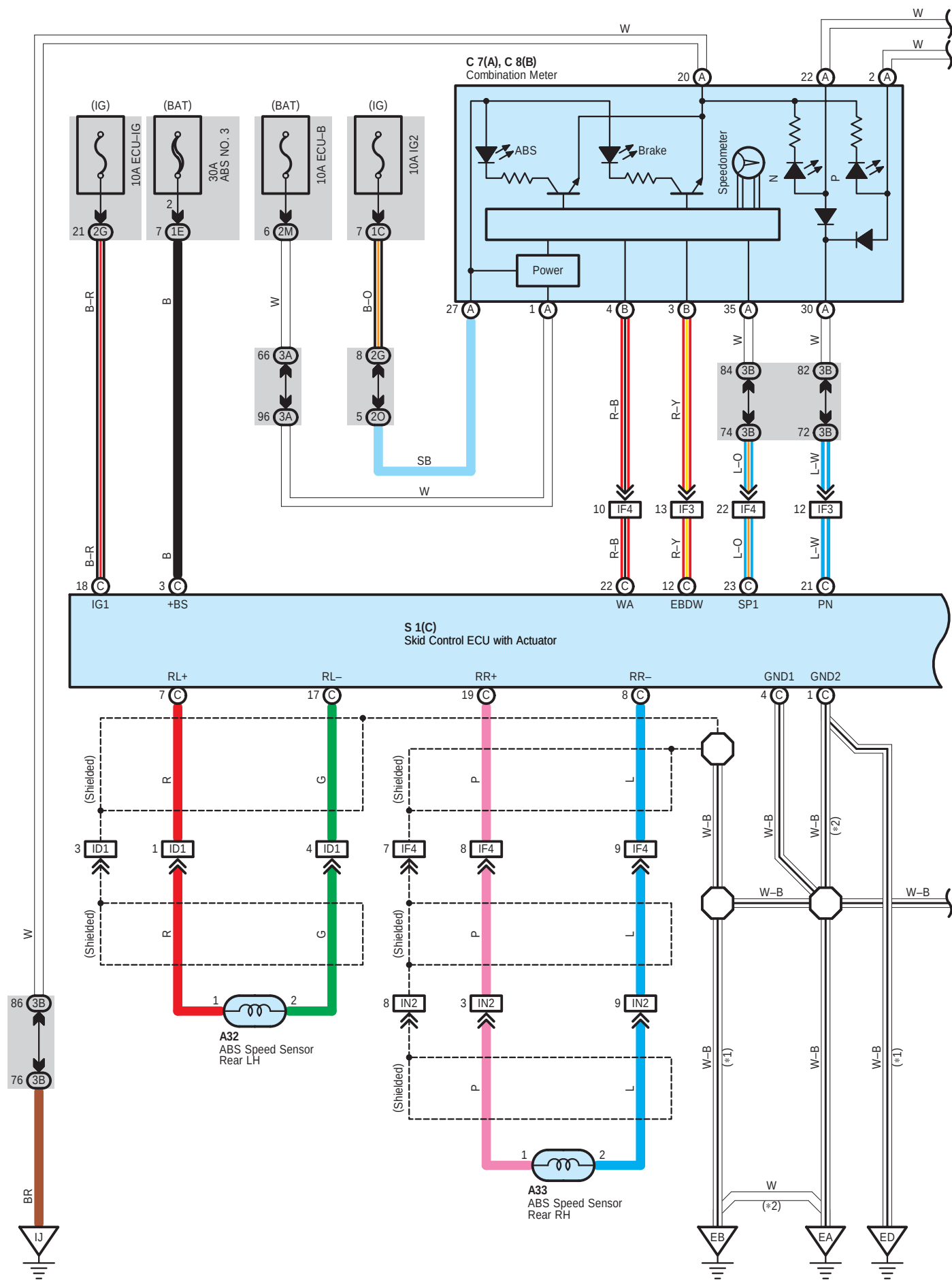
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

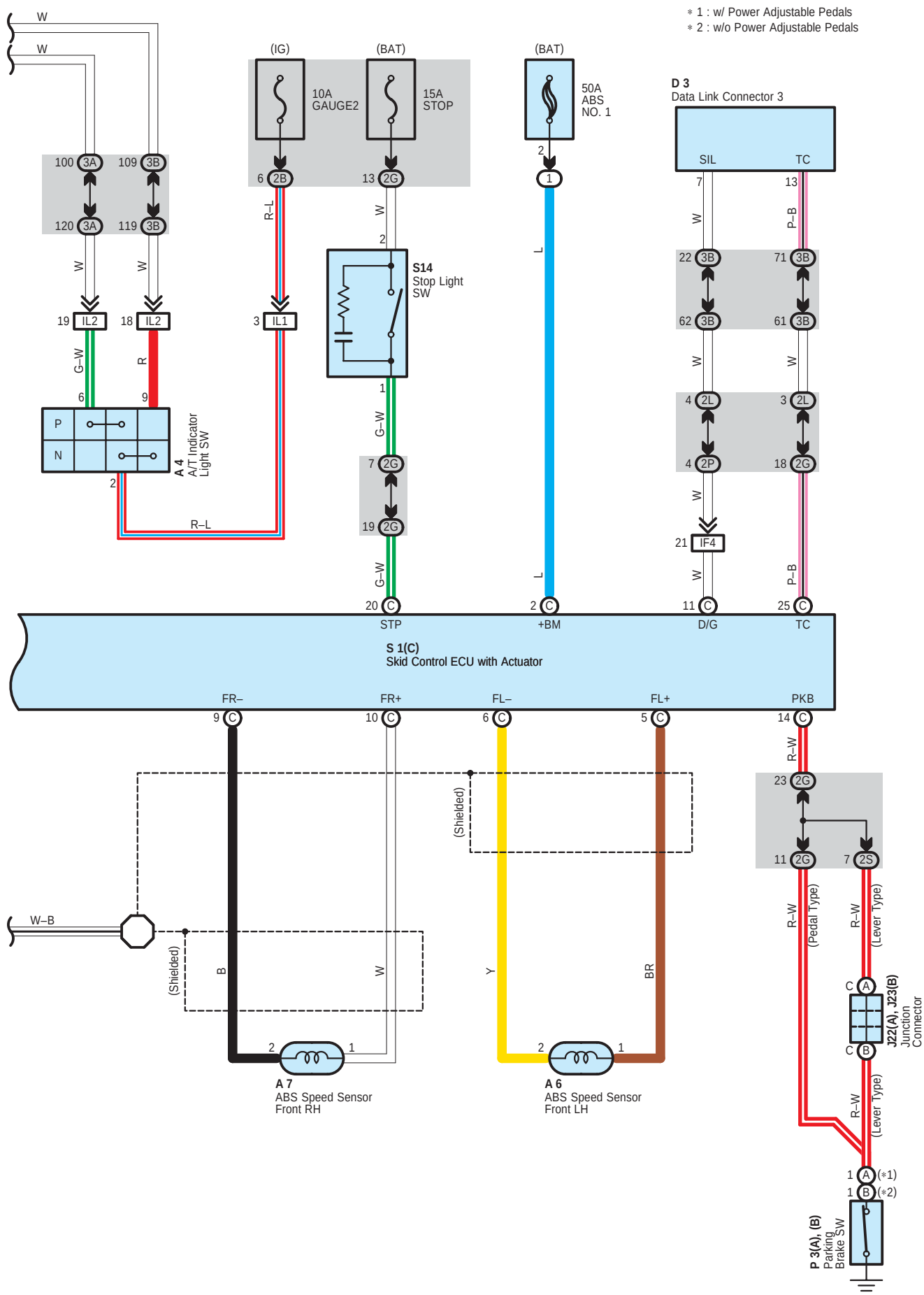


: Ground Points

Code	See Page	Ground Points Location
EA	48 (*1)	Right Fender
	49 (*2)	
EB	48 (*1)	
	49 (*2)	
IJ	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat





System Outline

This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.

1. Input Signals

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS 5, 7, 10 and 19 of the skid control ECU with actuator.

(2) Stop light SW signal

A signal is input to TERMINAL 20 of the skid control ECU with actuator when the brake pedal is depressed.

2. System Operation

During sudden braking the skid control ECU with actuator has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.

If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the skid control ECU with actuator, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	A32	44	J23	B 43
	40 (*2)	A33	44	P3	A 43
A6	38 (*1)	C7	A 42	S1	B 43
	40 (*2)	C8	B 42		C 39 (*1)
A7	38 (*1)	D3	42	S14	41 (*2)
	40 (*2)	J22	A 43		43

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



: Ground Points

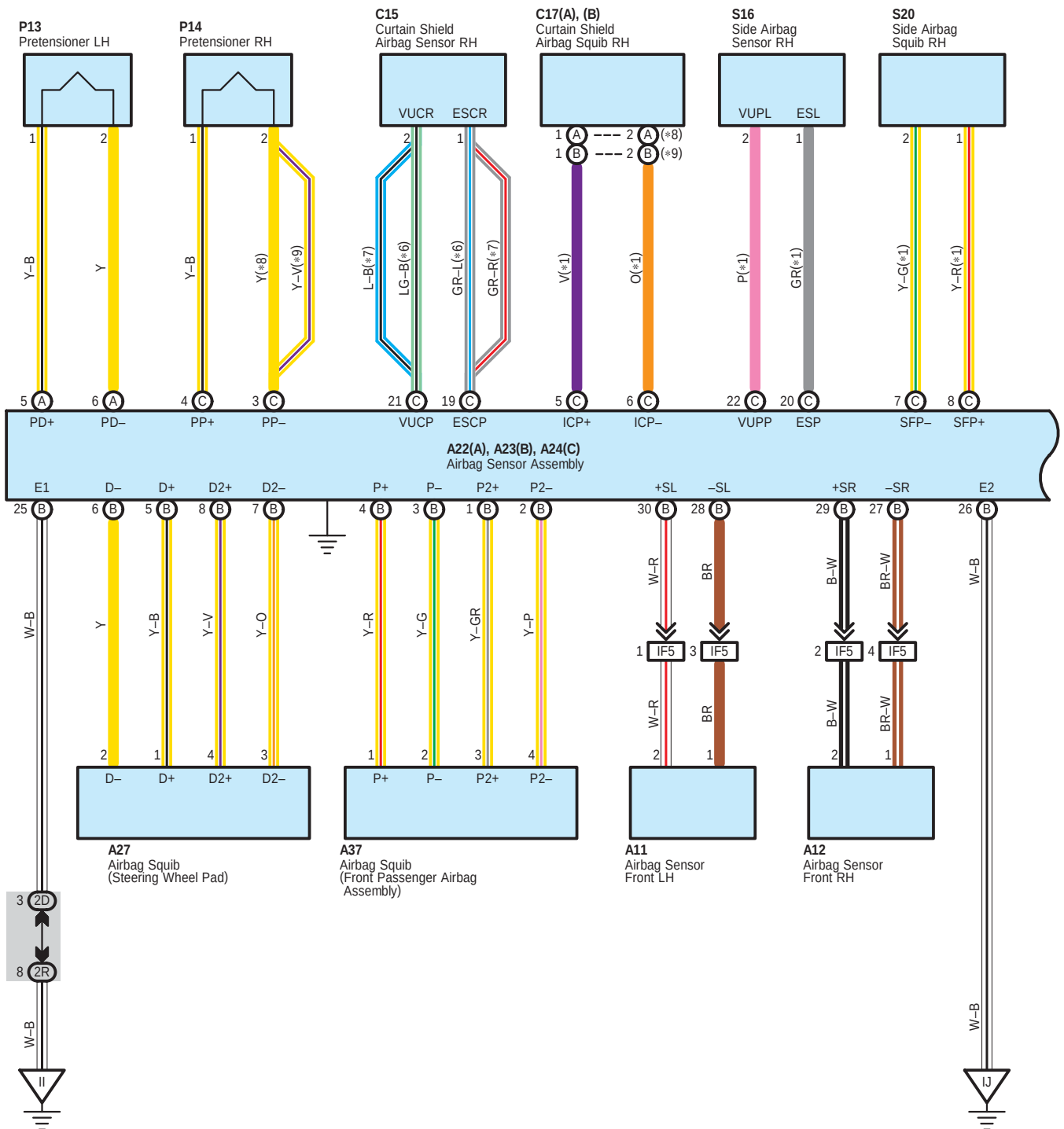
Code	See Page	Ground Points Location
EA	48 (*1)	Right Fender
	49 (*2)	
EB	48 (*1)	
	49 (*2)	
ED	48 (*1)	Left Fender
	49 (*2)	
IJ	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

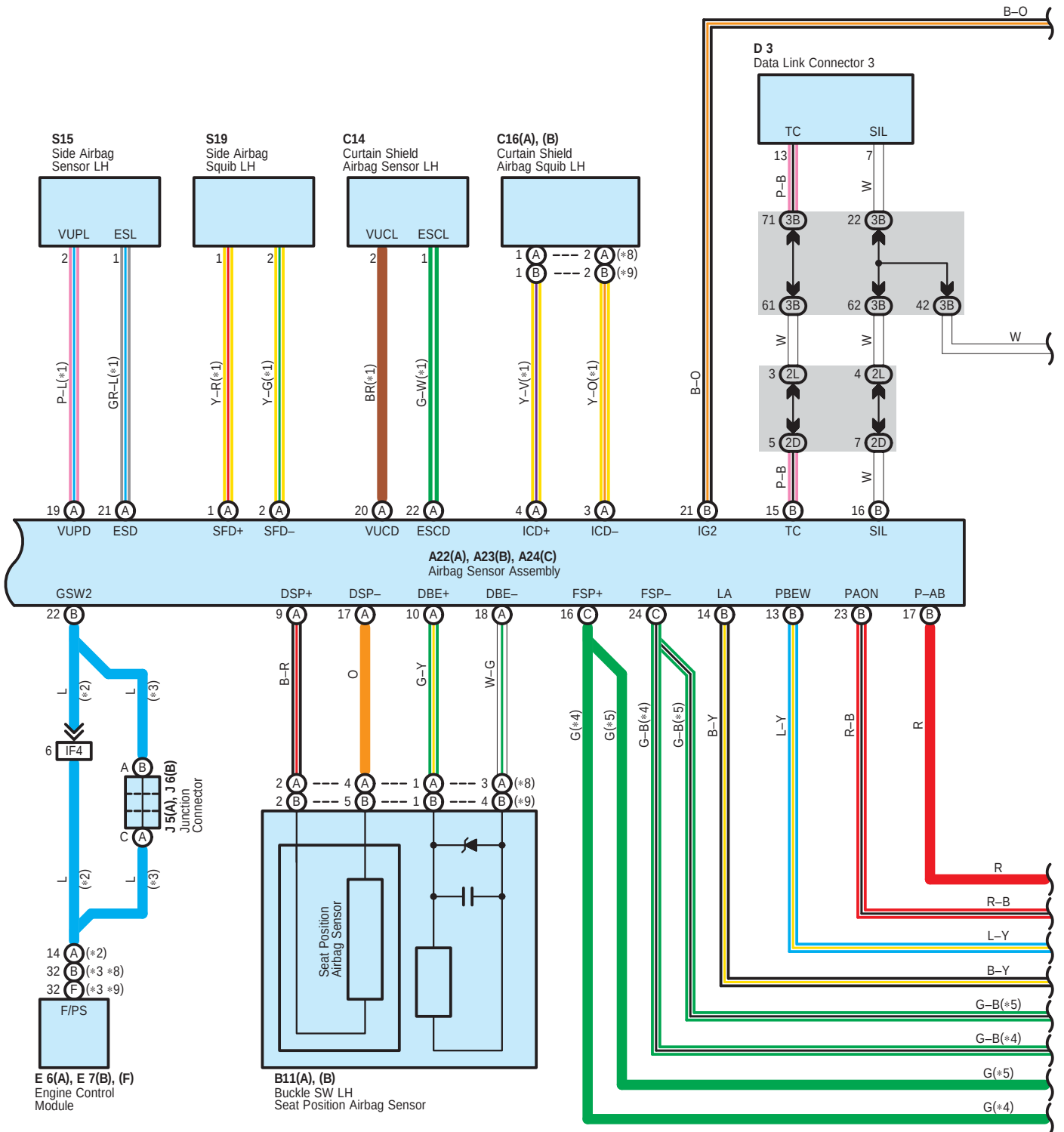
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

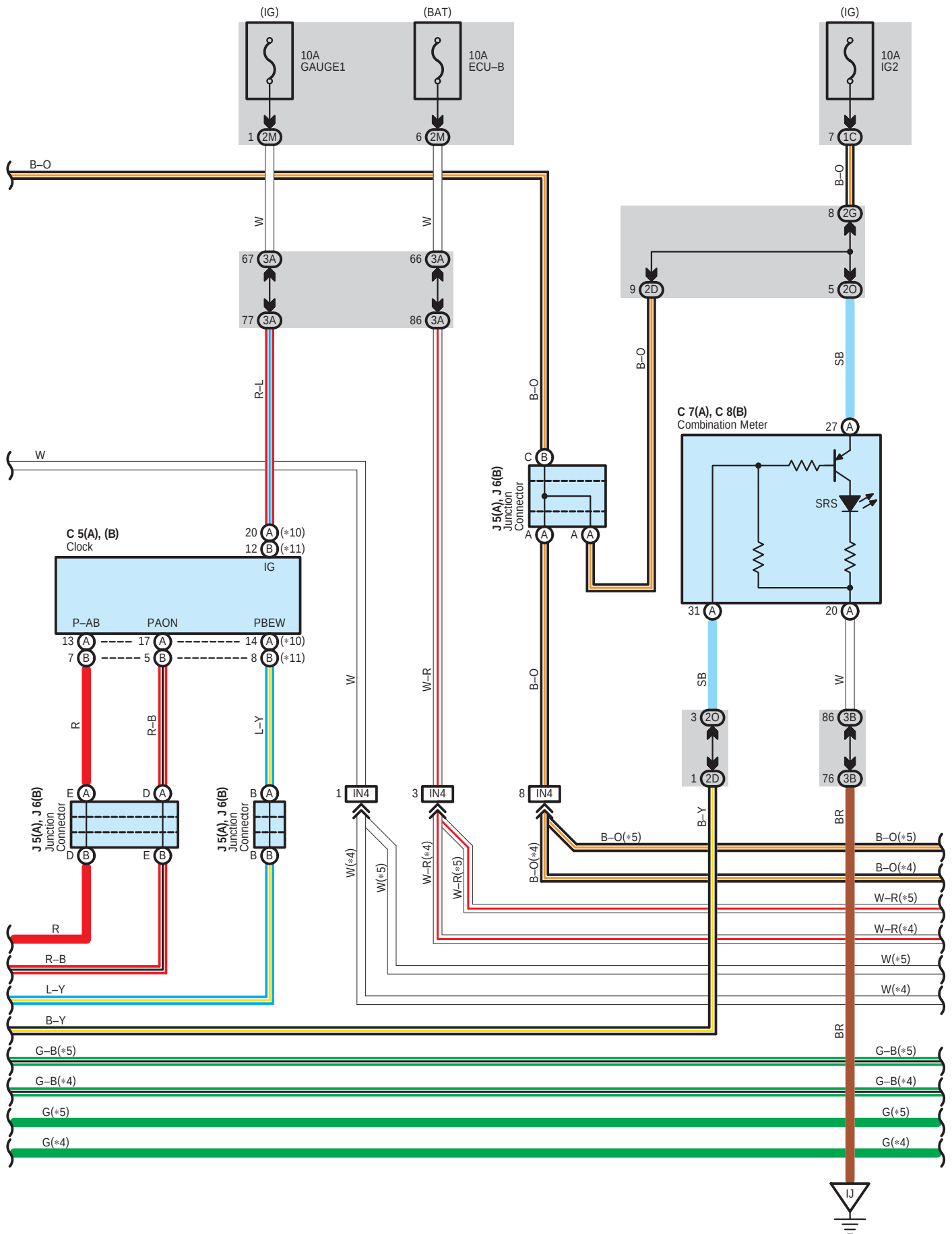
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is 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 k Ω /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

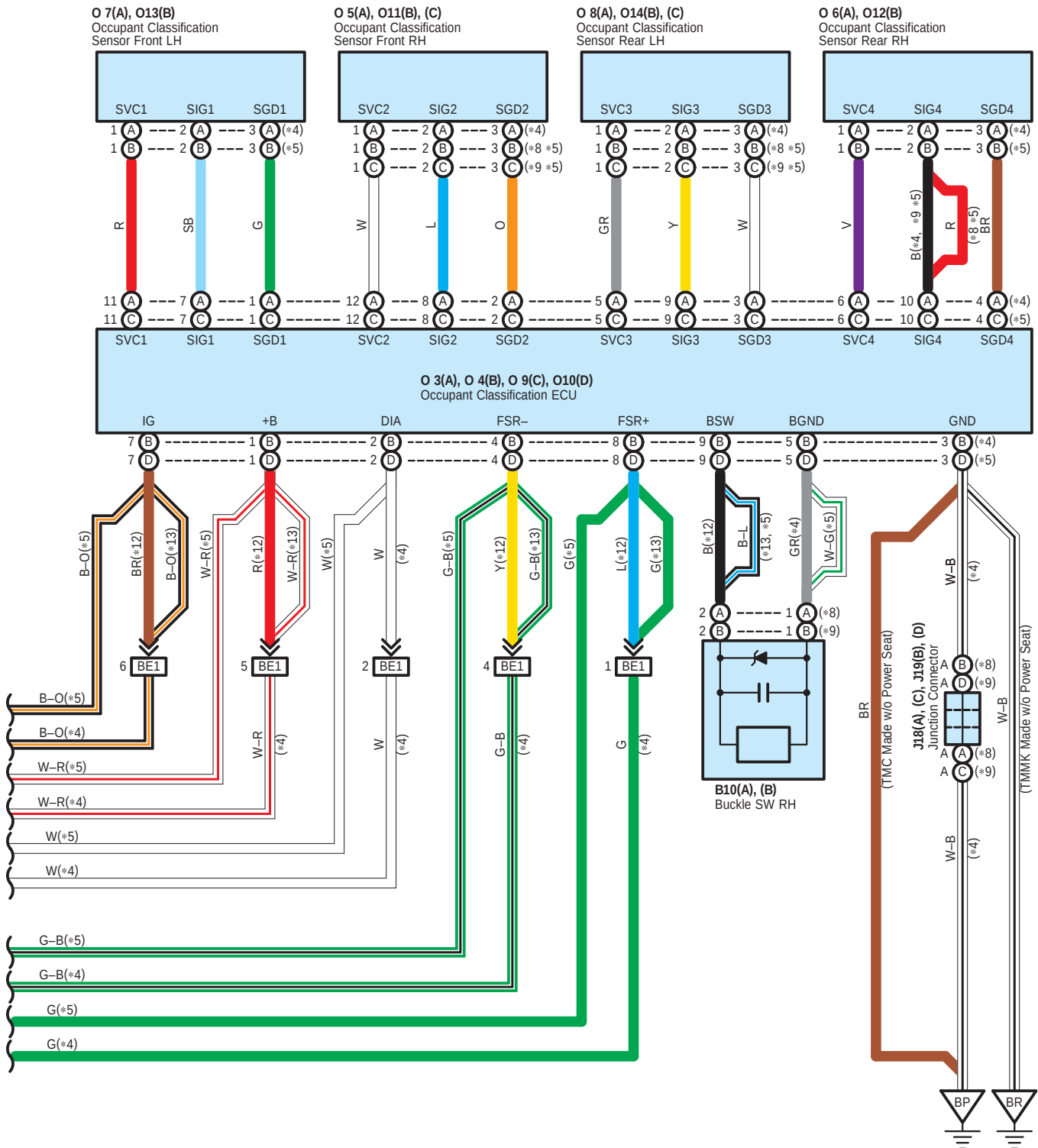


- * 1 : w/ Curtain Shield Airbag
- * 2 : 1MZ-FE, 3MZ-FE
- * 3 : 2AZ-FE
- * 4 : w/ Power Seat
- * 5 : w/o Power Seat
- * 6 : TMC Made w/ Curtain Shield Airbag
- * 7 : TMMK Made w/ Curtain Shield Airbag
- * 8 : TMC Made
- * 9 : TMMK Made





- * 4 : w/ Power Seat
- * 5 : w/o Power Seat
- * 8 : TMC Made
- * 9 : TMMK Made
- *10 : Automatic A/C
- *11 : Manual A/C
- *12 : TMC Made w/ Power Seat
- *13 : TMMK Made w/ Power Seat



System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.

When the ignition SW is turned to ON, the current from the IG2 fuse to TERMINAL (B) 21 of the airbag sensor assembly.

If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the IG2 fuse flows to TERMINALS (B) 5, (B) 8, (B) 4, (B) 1, (A) 5 and (C) 4 of the airbag sensor assembly to the airbag squibs and the pretensioners to TERMINALS (B) 6, (B) 7, (B) 3, (B) 2, (A) 6 and (C) 3 of the airbag sensor assembly to TERMINAL (B) 25, (B) 26 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.

When the side impact also exceeds a set level, the current from the IG2 fuse flows to TERMINALS (A) 1, (C) 8, (A) 4 and (C) 5 of the airbag sensor assembly to the side airbag squibs and the curtain shield airbag squibs TERMINALS (A) 2, (C) 7, (A) 3 and (C) 6 of the airbag sensor assembly to TERMINAL (B) 25, (B) 26 or BODY GROUND to GROUND, causing side airbag squibs and curtain shield airbag squibs to operate.

The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.

The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.

Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.

The curtain shield airbag can ease an impact on the head of the front and rear passengers and reduce risks of injury.

The pretensioners make sure of the seat belt restrainability.

If occupant classification ECU detects the presence of a child in the front passenger seat, it prohibits the deployment of the SRS airbag to prevent the child from being injured by the airbag.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	38 (*1)	C8 B	42	O6 A	46 (*3)
	40 (*2)	C14	44	O7 A	46 (*3)
A12	38 (*1)	C15	44	O8 A	46 (*3)
	40 (*2)	C16	A 44	O9 C	47 (*4)
A22 A	42		B 44	O10 D	47 (*4)
A23 B	42	C17	A 44	O11	B 47 (*4)
A24 C	42		B 44		C 47 (*4)
A27	42	D3	42	O12 B	47 (*4)
A37	42	E6 A	42	O13 B	47 (*4)
B10	A 46 (*3)	E7	B 42	O14	B 47 (*4)
	47 (*4)		F 42		C 47 (*4)
	B 46 (*3)	J5 A	43	P13	45
	47 (*4)	J6 B	43	P14	45
B11	A 46 (*3)	J18	A 46 (*3)	S15	45
	47 (*4)		C 46 (*3)	S16	45
	B 46 (*3)	J19	B 46 (*3)	S19	46 (*3)
	47 (*4)		D 46 (*3)		47 (*4)
C5	A 42	O3 A	46 (*3)	S20	46 (*3)
	B 42	O4 B	46 (*3)		47 (*4)
C7 A	42	O5 A	46 (*3)		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

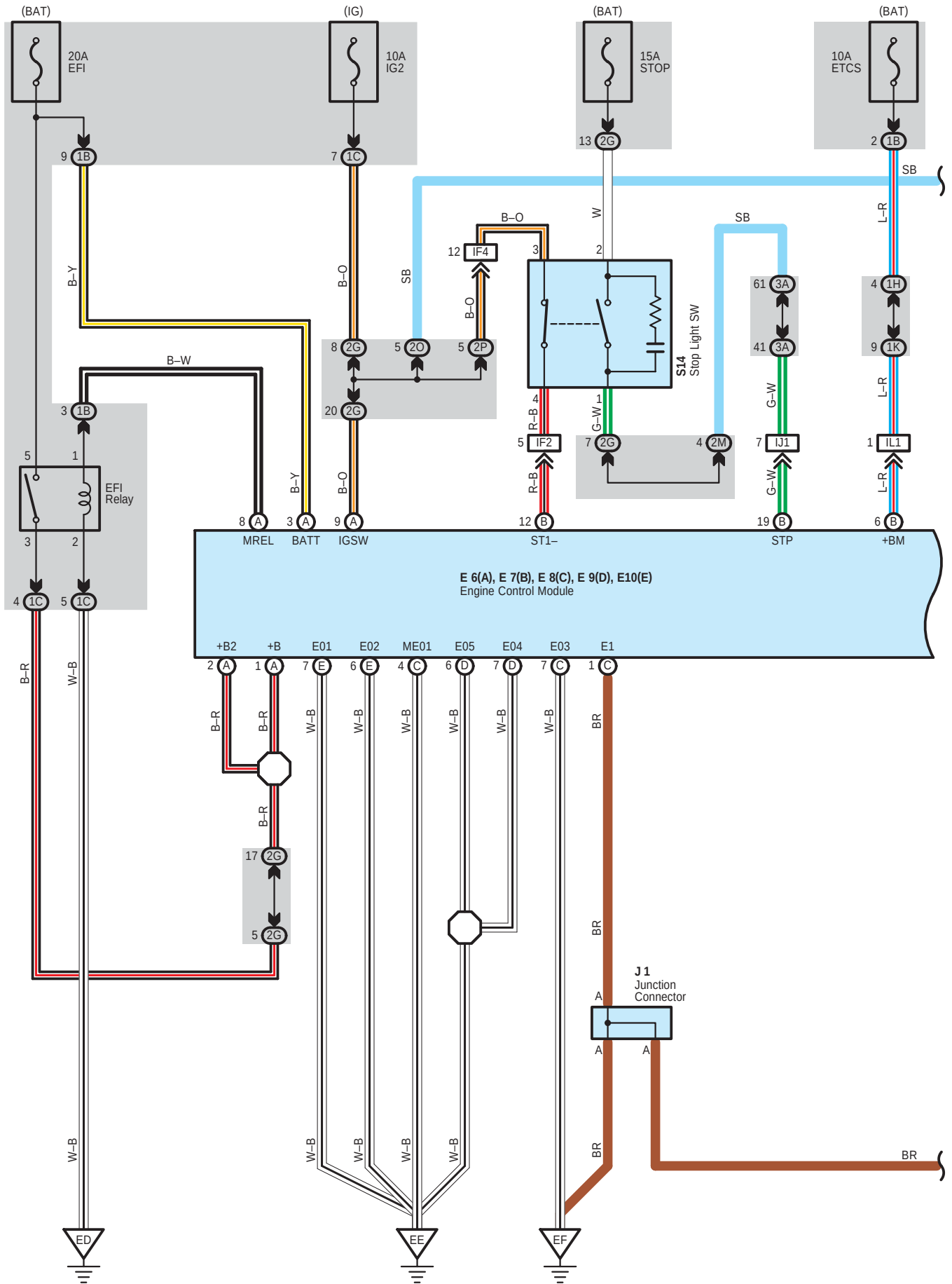
 : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF5		
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
BE1	53	Floor No.2 Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

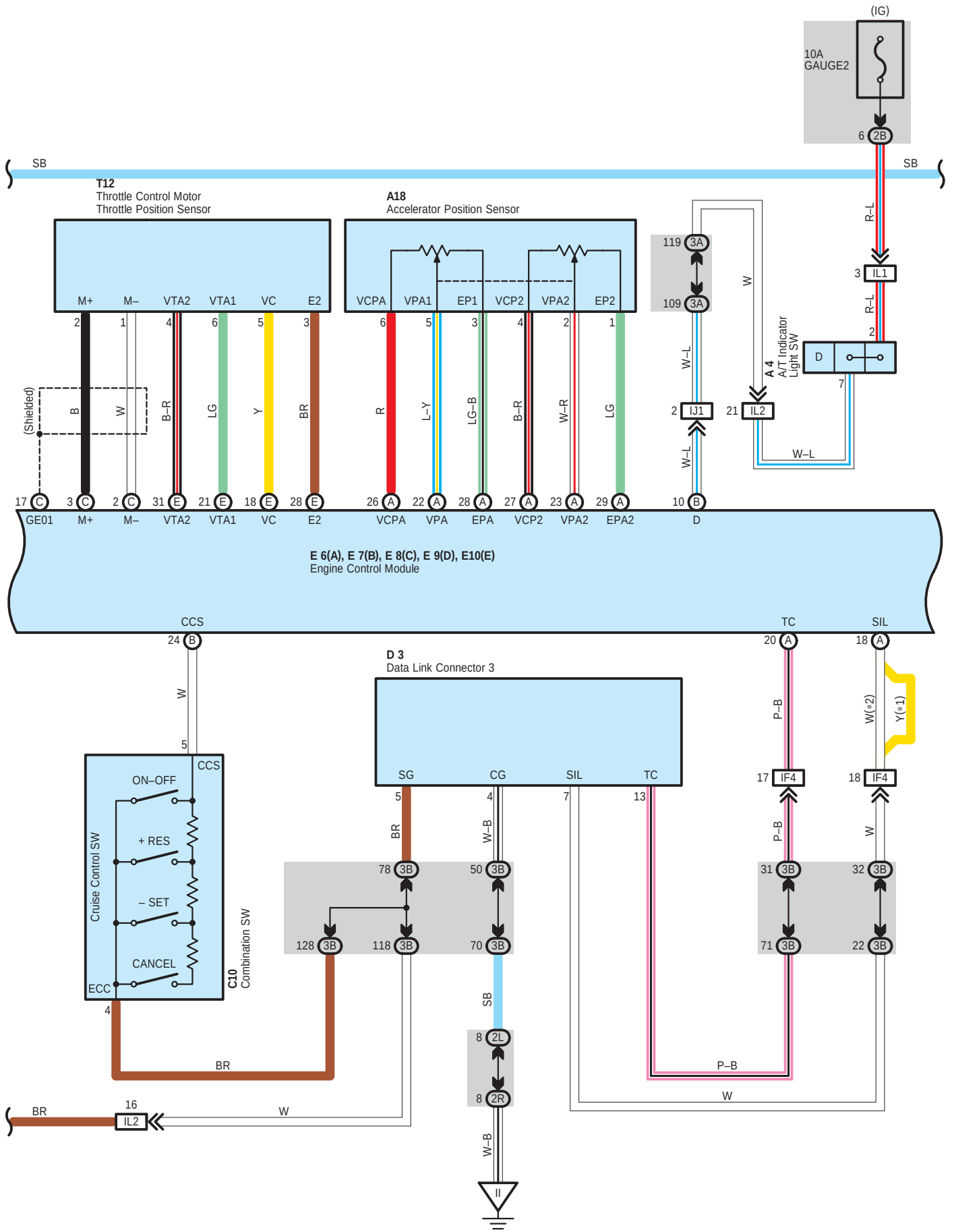
 : **Ground Points**

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BP	52	Under the Front Passenger's Seat
BR	52	Front Side of Rear Quarter Wheel House RH

Cruise Control for 1MZ-FE and 3MZ-FE

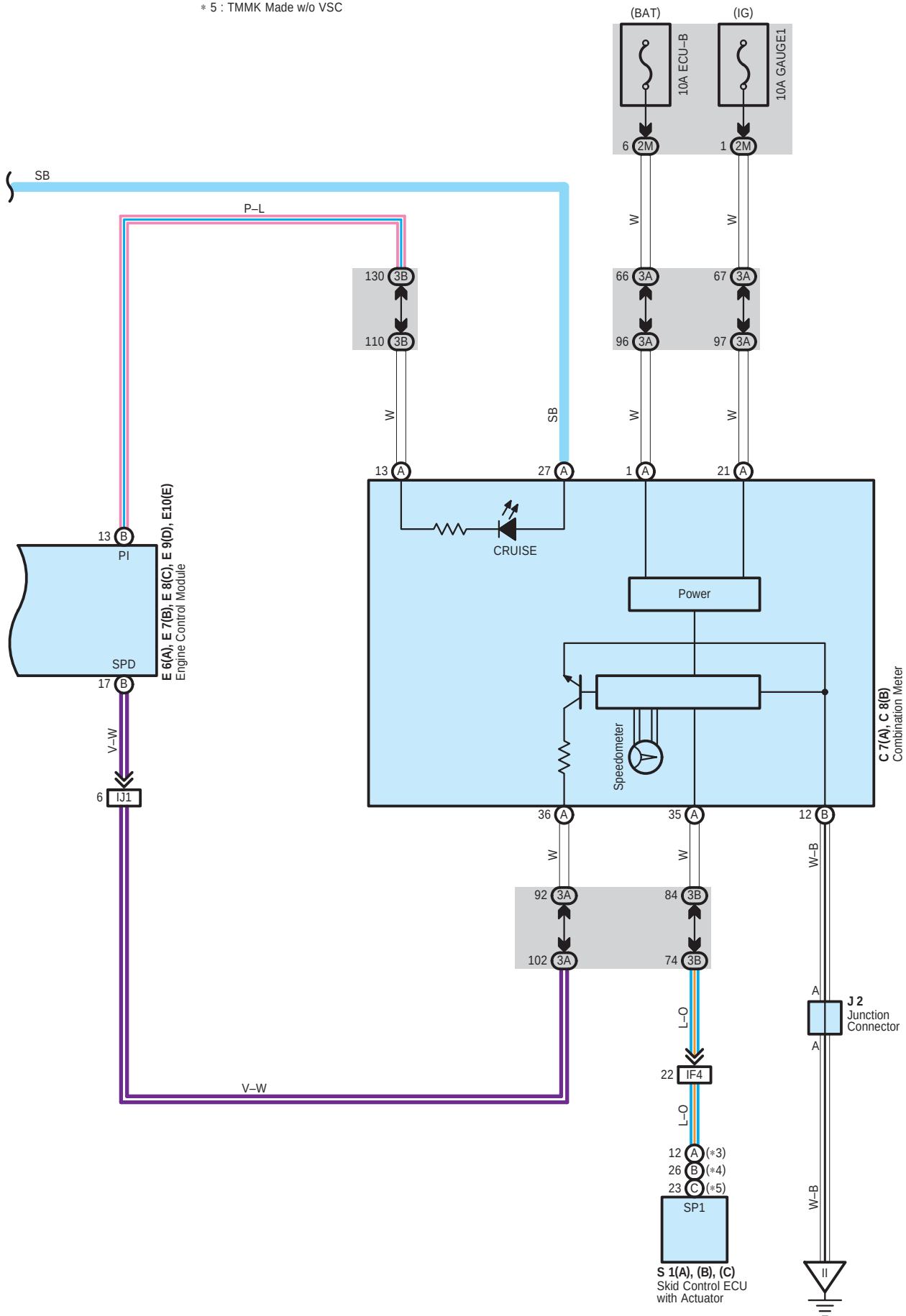


* 1 : TMC Made
 * 2 : TMMK Made



Cruise Control for 1MZ-FE and 3MZ-FE

- * 3 : w/ VSC
- * 4 : TMC Made w/o VSC
- * 5 : TMMK Made w/o VSC



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 Operation

When the cruise control main SW is turned on, the system starts preparations necessary for the cruise control and turns on the indicator light in the combination meter.

2. Set Speed Control

When the – SET SW is operated with the cruise control SW turned on during travelling, the constant vehicle speed is controlled.

3. Coast Control

When the – SET SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to decelerate the vehicle. Every time the – SET SW is turned on instantaneously, the vehicle speed is decelerated approximately 1.6 km/h.

4. Accel Control

When the + RES SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to accelerate the vehicle. Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approximately 1.6 km/h.

5. Resume Control

When the vehicle speed is within the low speed limit (Approximately 40 km/h, 25 mph) if the cruise control is cancelled, use of the + RES SW accelerates the vehicle to the speed level used before canceling the cruise control.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- * The stop light SW is turned on.
- * The CANCEL SW is turned on.
- * The cruise control SW is turned off.
- * Gear is shifted from D position to other position 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. 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 it is decided that the slope is finished, the vehicle returns to the overdrive control mode again.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	E6	A 42	J2	43
A18	42	E7	B 42	S1	A 39 (*1)
C7	A 42	E8	C 42		B 39 (*1)
C8	B 42	E9	D 42		C 39 (*1)
C10	42	E10	E 42	S14	43
D3	42	J1	43	T12	39 (*1)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Cruise Control for 1MZ-FE and 3MZ-FE



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1H		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

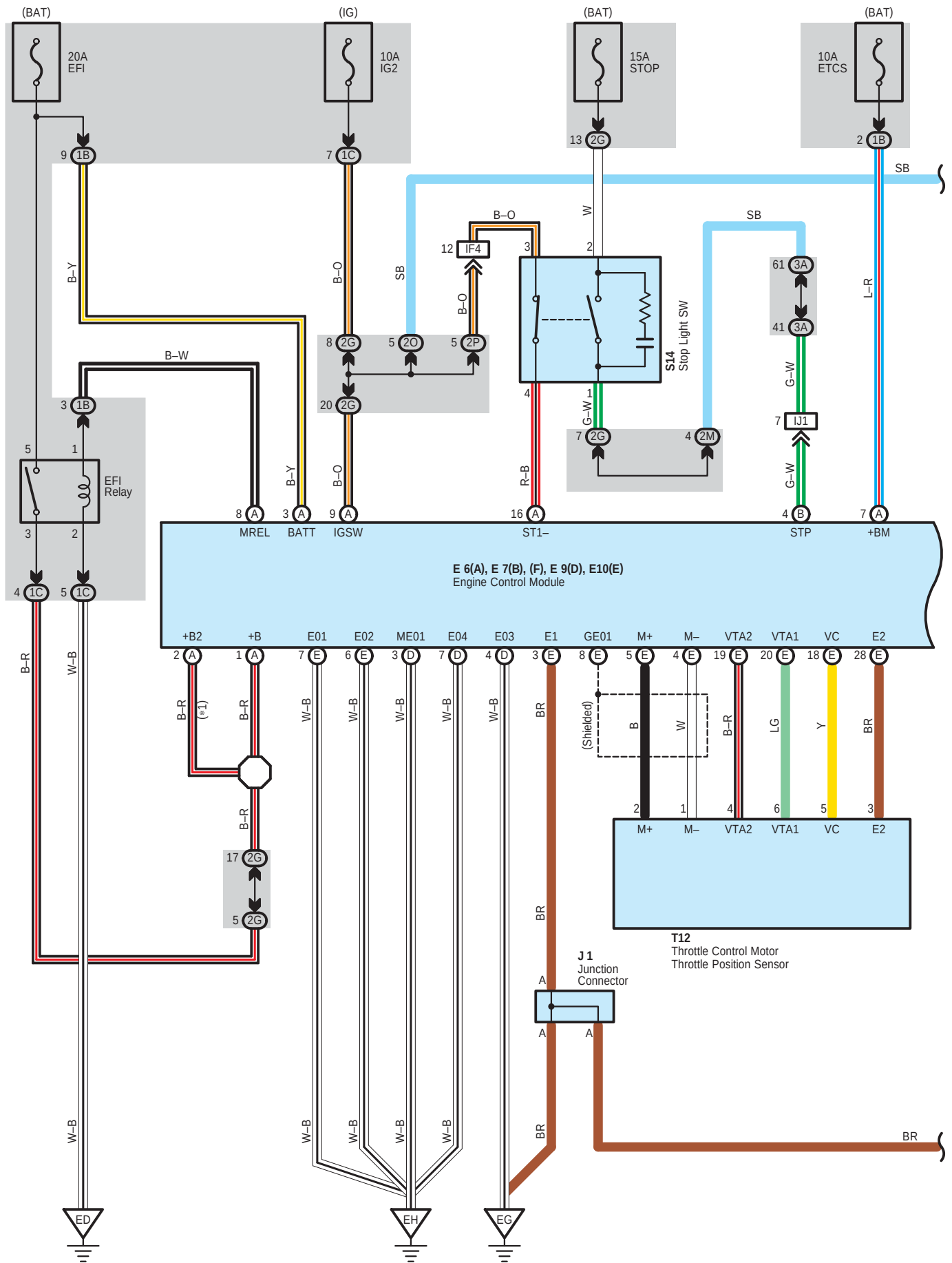


: Ground Points

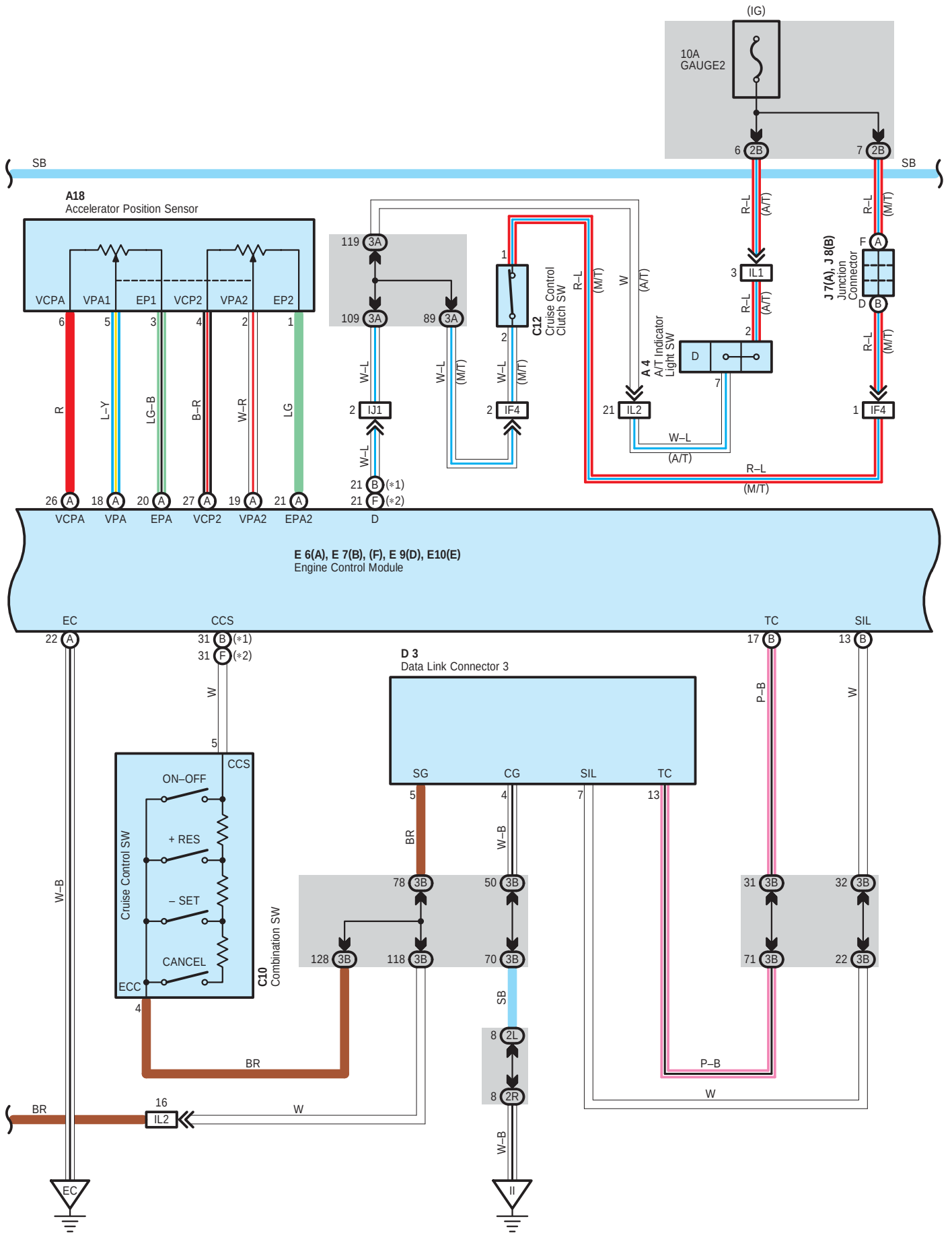
Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

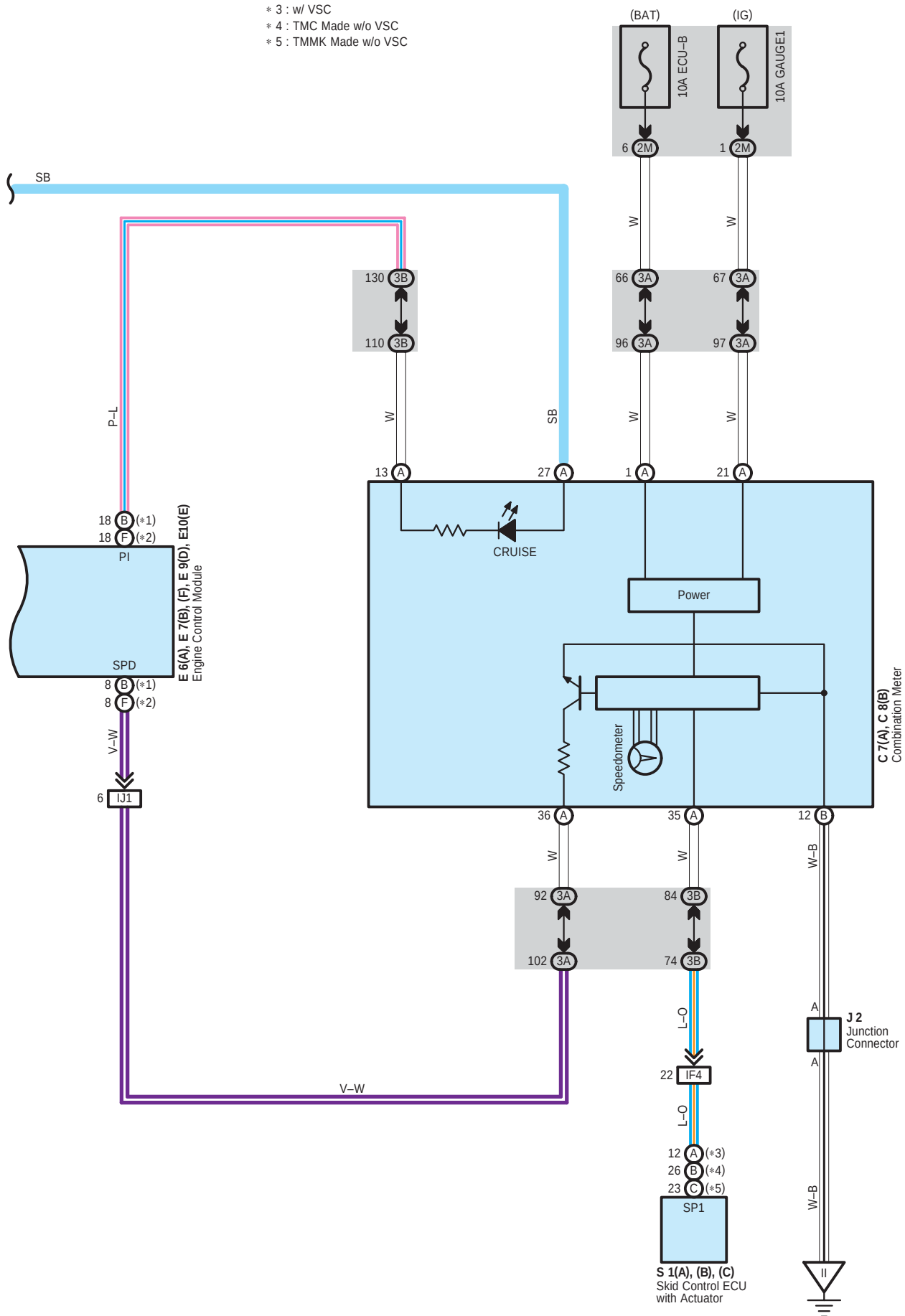
Cruise Control for 2AZ-FE



* 1 : TMC Made
 * 2 : TMMK Made



- * 1 : TMC Made
- * 2 : TMMK Made
- * 3 : w/ VSC
- * 4 : TMC Made w/o VSC
- * 5 : TMMK Made w/o VSC



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 Operation

When the cruise control main SW is turned on, the system starts preparations necessary for the cruise control and turns on the indicator light in the combination meter.

2. Set Speed Control

When the – SET SW is operated with the cruise control SW turned on during travelling, the constant vehicle speed is controlled.

3. Coast Control

When the – SET SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to decelerate the vehicle. Every time the – SET SW is turned on instantaneously, the vehicle speed is decelerated approximately 1.6 km/h.

4. Accel Control

When the + RES SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to accelerate the vehicle. Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approximately 1.6 km/h.

5. Resume Control

When the vehicle speed is within the low speed limit (Approximately 40 km/h, 25 mph) if the cruise control is cancelled, use of the + RES SW accelerates the vehicle to the speed level used before canceling the cruise control.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- * The stop light SW is turned on.
- * The CANCEL SW is turned on.
- * The cruise control SW is turned off.
- * Gear is shifted D position to other positions than D. (A/T)
- * The clutch pedal is depressed. (M/T)

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. 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, if the vehicle speed exceeds the overdrive return speed (The set speed is 2 km/h, 1.2 mph) and it is decided that the slope is finished, the vehicle returns to the overdrive control mode again.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	40 (*2)	E6	A 42	J7	A 43
A18	42	E7	B 42	J8	B 43
C7	A 42		F 42	S1	A 41 (*2)
C8	B 42	E9	D 42		B 41 (*2)
C10	42	E10	E 42		C 41 (*2)
C12	42	J1	43	S14	43
D3	42	J2	43	T12	41 (*2)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Cruise Control for 2AZ-FE



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2P		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		



: Connector Joining Wire Harness and Wire Harness

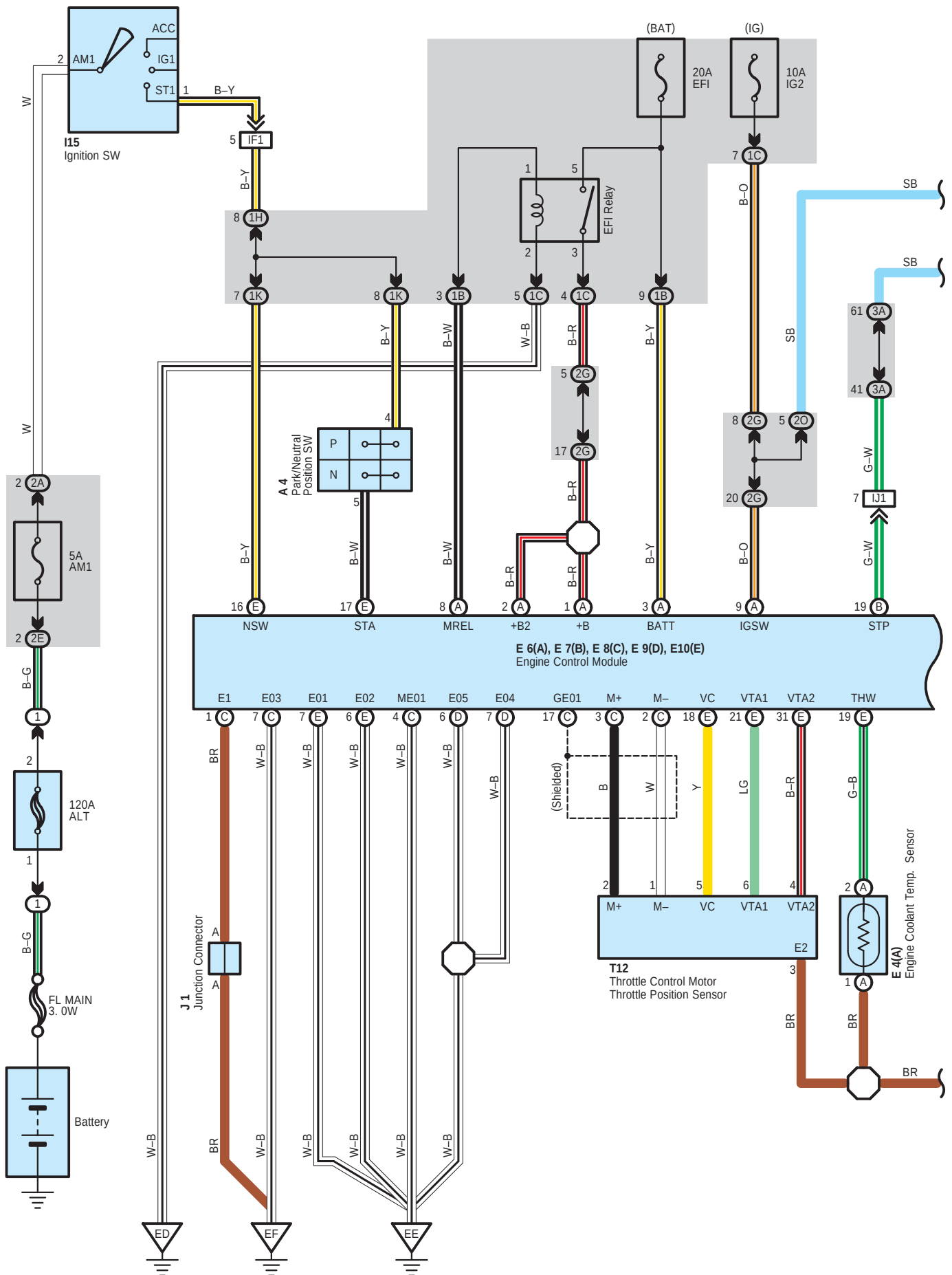
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		



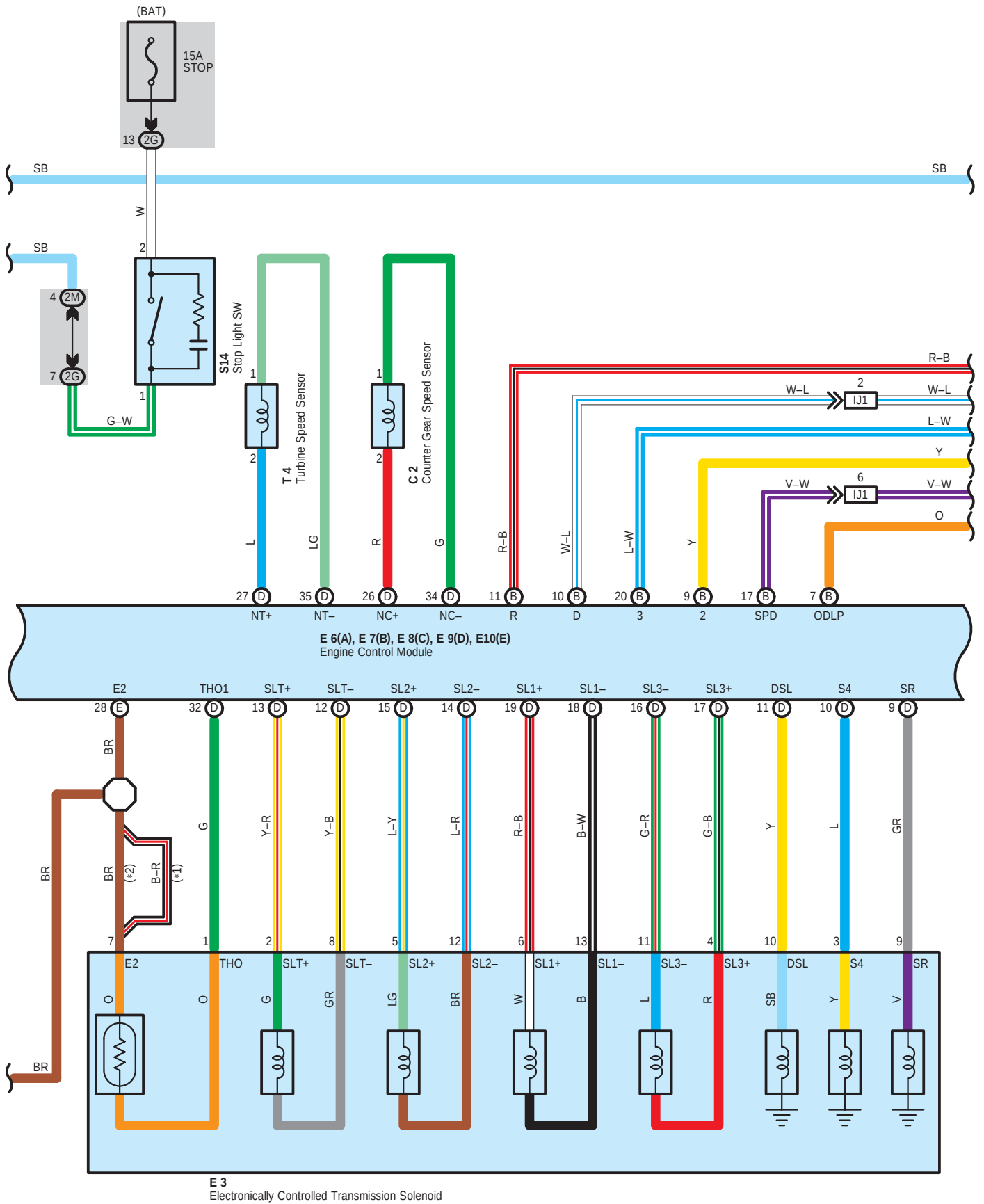
: Ground Points

Code	See Page	Ground Points Location
EC	49 (*2)	Left Fender
ED		
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
II	50	Cowl Side Panel LH

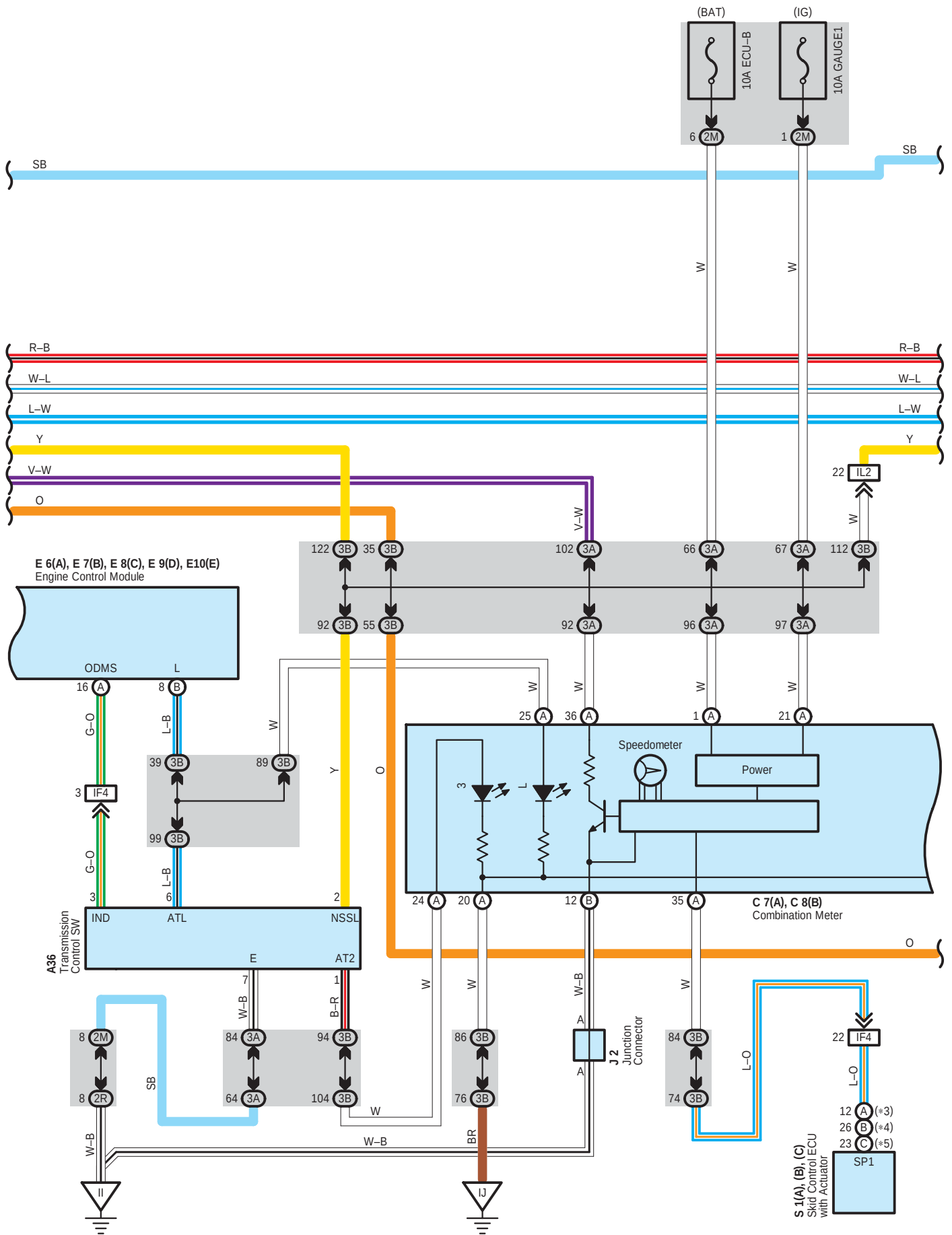
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



* 1 : TMC Made
 * 2 : TMMK Made



ECT and A/T Indicator for 1MZ-FE and 3MZ-FE



ECT and A/T Indicator for 1MZ-FE and 3MZ-FE

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

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal is input to TERMINAL SPD of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Lock-Up Operation

When each signal makes engine control module recognize that LOCK-UP condition is satisfied, the current flows from engine control module TERMINAL DSL to electronically controlled transmission solenoid TERMINAL 10. At the same time, the current flows engine control module TERMINAL SL1+ to electronically controlled transmission solenoid TERMINAL 6 and from TERMINAL 13 to engine control module TERMINAL SL1-. This works LOCK-UP solenoid to perform LOCK-UP operation.

3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light 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.

4. Overdrive Circuit

* Overdrive on

When the engine is turned on from ignition off, the engine control module turns the O/D on. When the O/D main SW is pushed while the O/D is off, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned on by the engine control module. In this case, the engine control module controls the gear shift according to the vehicle's driving condition, using the O/D range. At this time, the O/D off indicator light is off.

* Overdrive off

When the O/D main SW is pushed while the O/D is on, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned off. At this time, the current flows through the O/D off indicator light to TERMINAL ODLP of the engine control module. As a result, the O/D off indicator light turns on, and the engine control module controls the gear shift according to the vehicle's driving condition, without using the O/D range.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	E6	A 42	J2	43
A36	42	E7	B 42	S1	A 39 (*1)
C2	38 (*1)	E8	C 42		B 39 (*1)
C7	A 42	E9	D 42		C 39 (*1)
C8	B 42	E10	E 42	S14	43
E3	38 (*1)	I15	43	T4	39 (*1)
E4	A 38 (*1)	J1	43	T12	39 (*1)

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1H		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B		
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

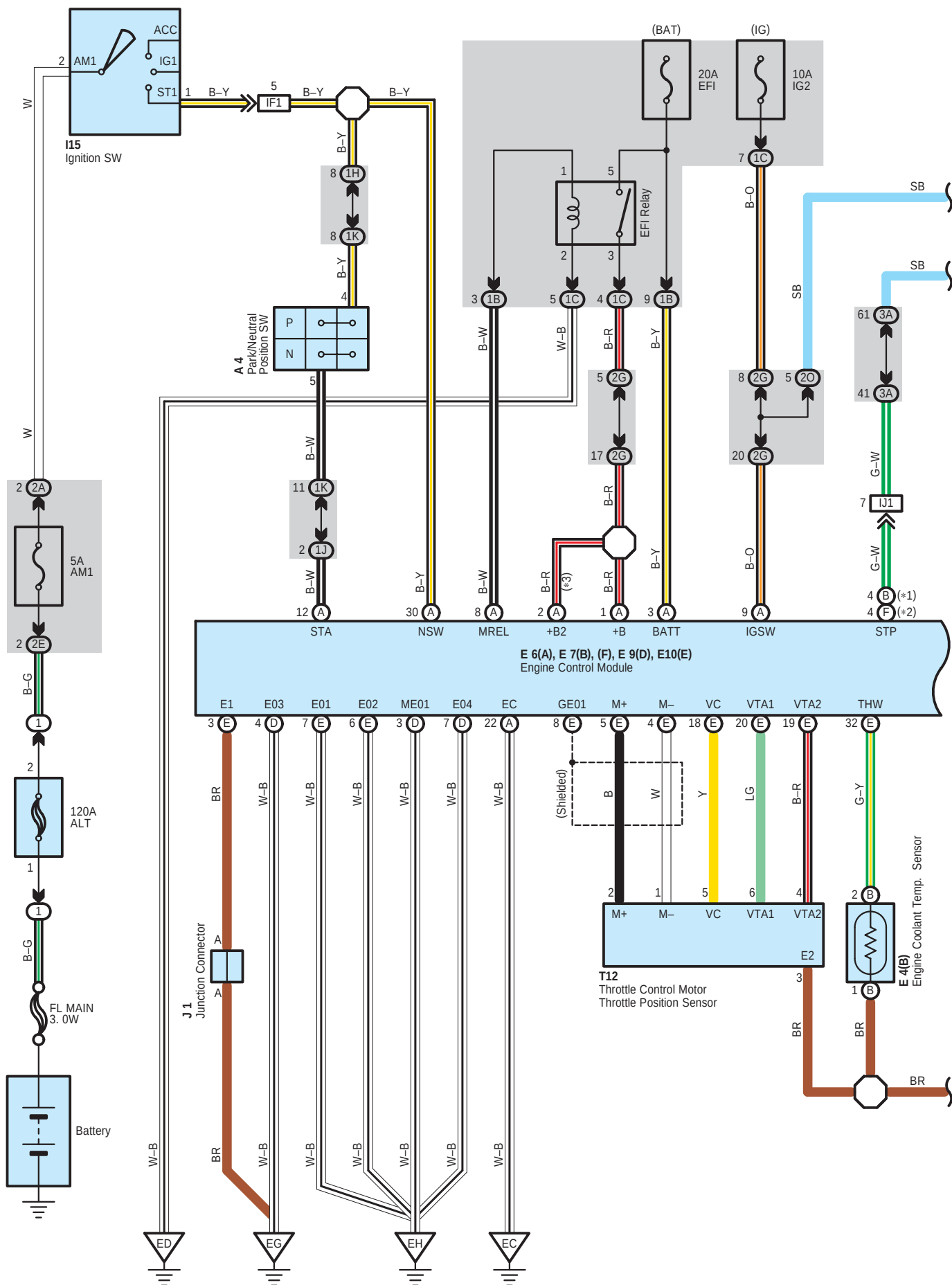
**: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

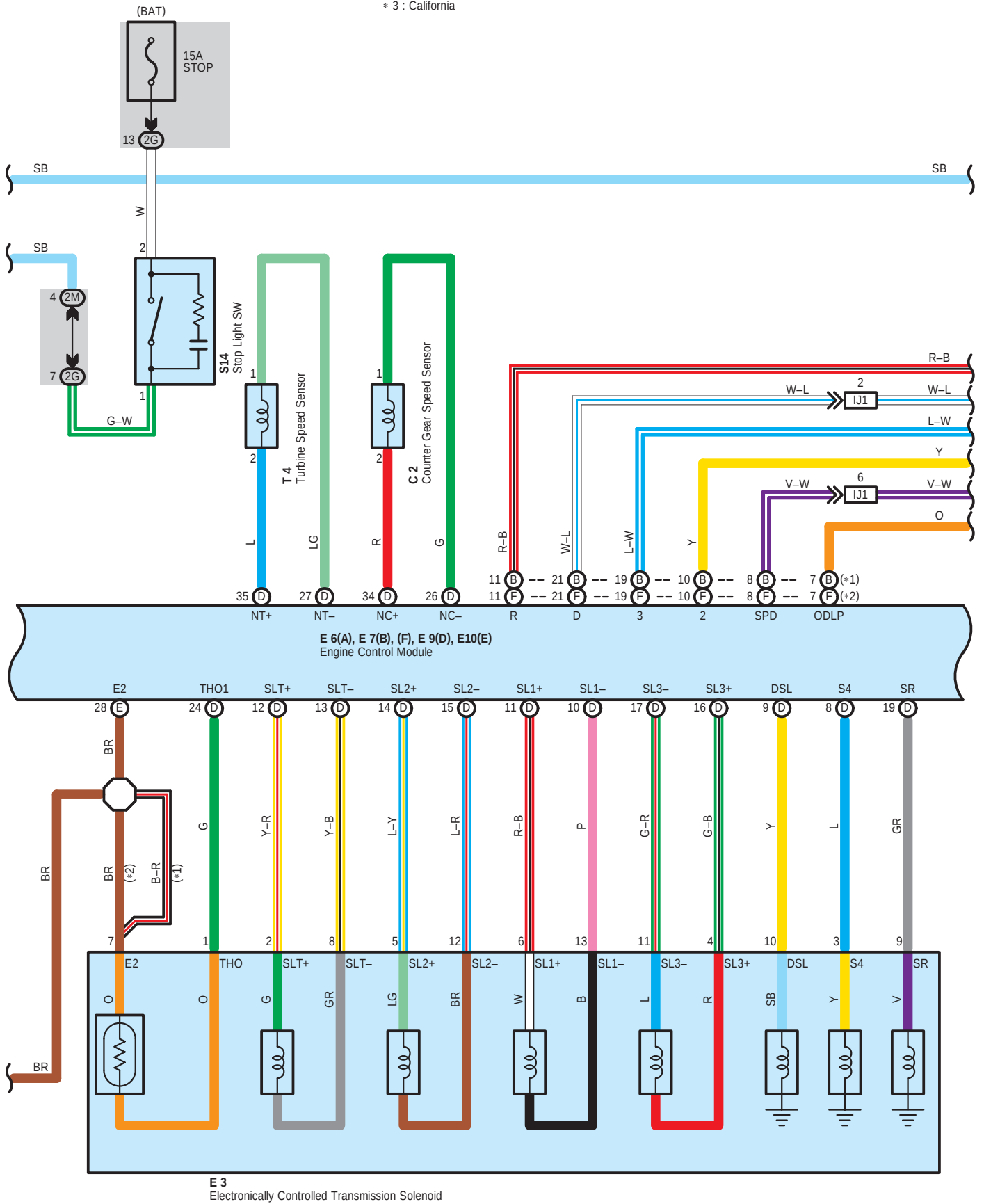
**: Ground Points**

Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH

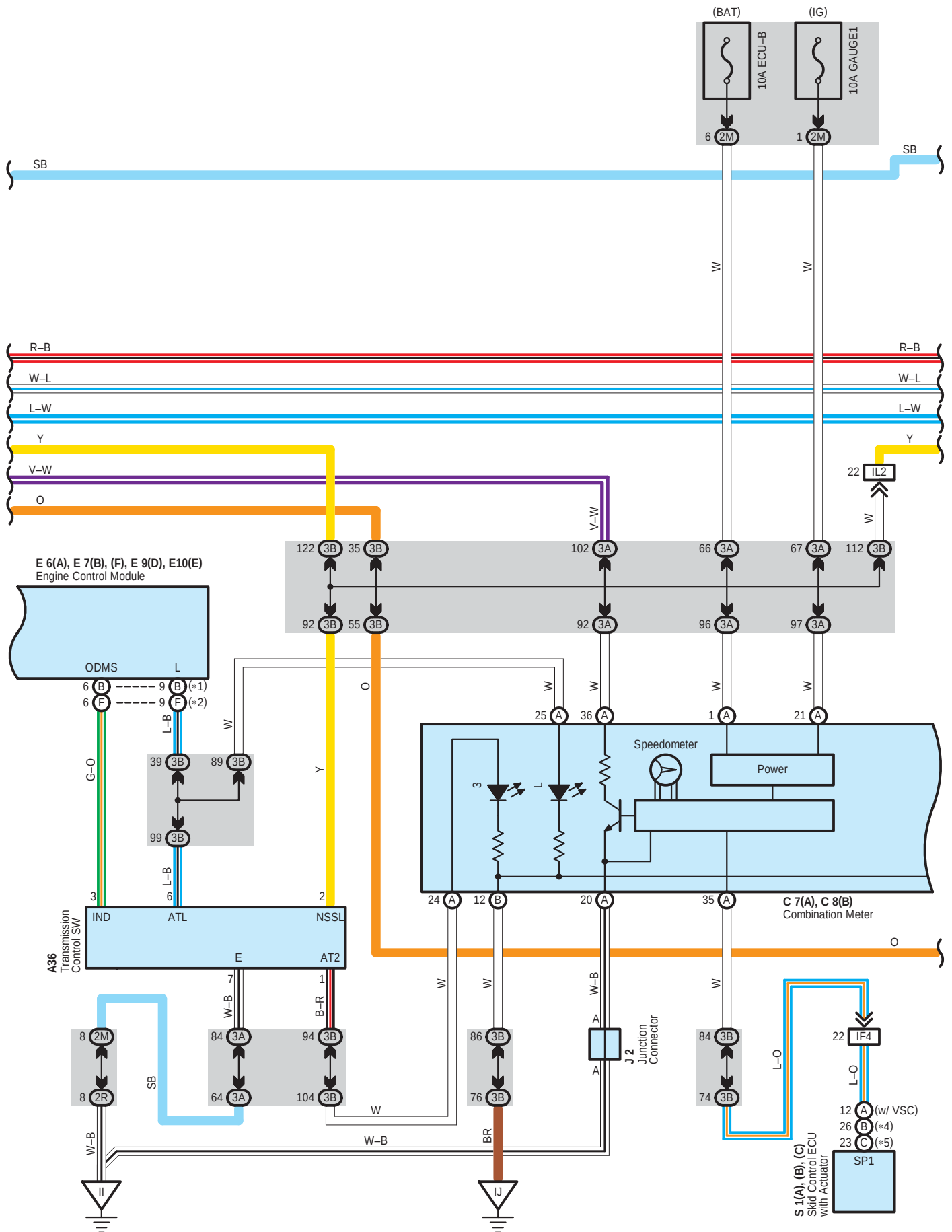
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

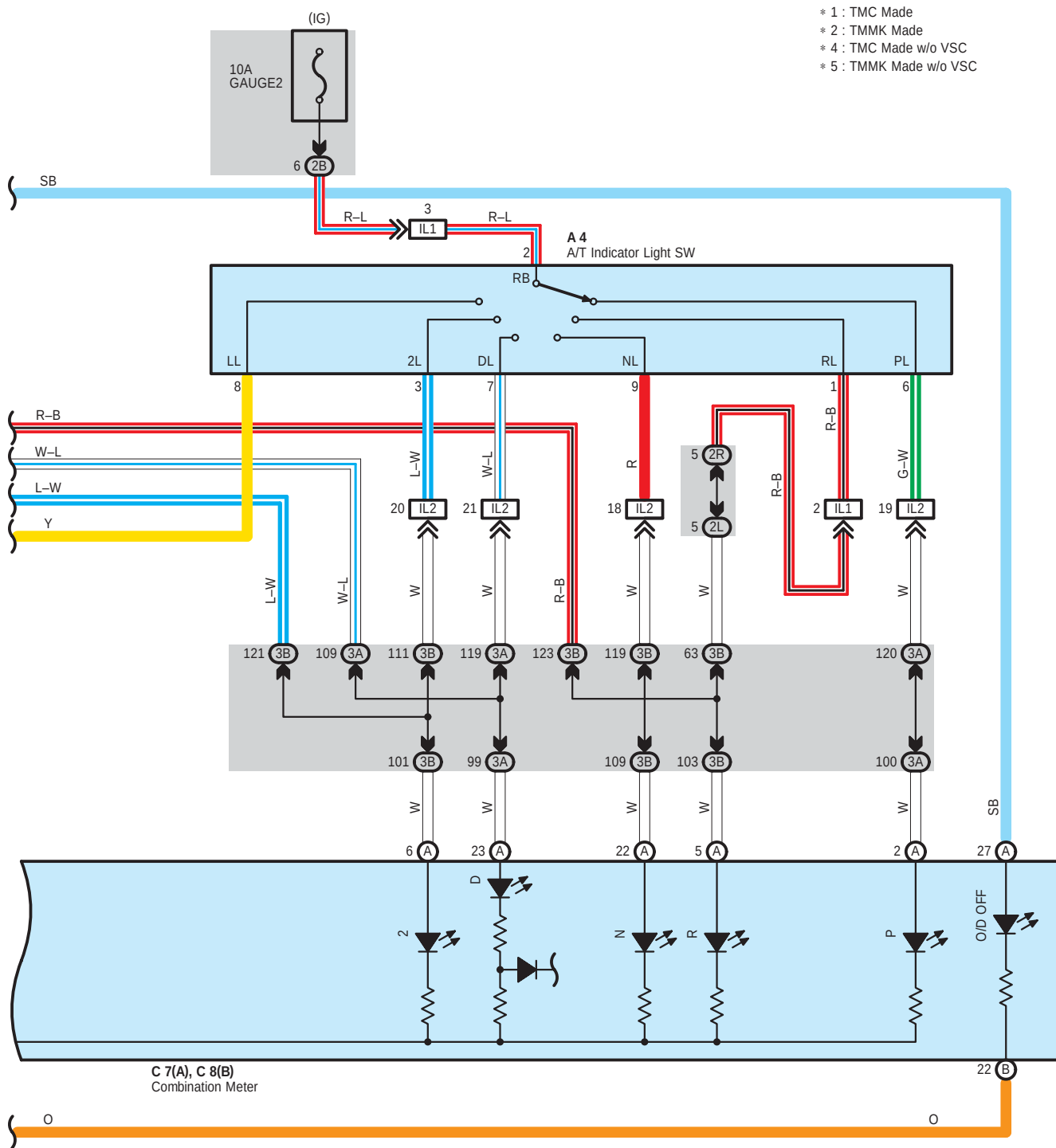


- * 1 : TMC Made
- * 2 : TMMK Made
- * 3 : California



ECT and A/T Indicator for 2AZ-FE





ECT and A/T Indicator for 2AZ-FE

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

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal is input to TERMINAL SPD of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Lock-Up Operation

When each signal makes engine control module recognize that LOCK-UP condition is satisfied, the current flows from engine control module TERMINAL DSL to electronically controlled transmission solenoid TERMINAL 10. At the same time, the current flows engine control module TERMINAL SL1+ to electronically controlled transmission solenoid TERMINAL 6 and from TERMINAL 13 to engine control module TERMINAL SL1-. This works LOCK-UP solenoid to perform LOCK-UP operation.

3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light 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.

4. Overdrive Circuit

* Overdrive on

When the engine is turned on from ignition off, the engine control module turns the O/D on. When the O/D main SW is pushed while the O/D is off, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned on by the engine control module. In this case, the engine control module controls the gear shift according to the vehicle's driving condition, using the O/D range. At this time, the O/D off indicator light is off.

* Overdrive off

When the O/D main SW is pushed while the O/D is on, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned off. At this time, the current flows through the O/D off indicator light to TERMINAL ODLP of the engine control module. As a result, the O/D off indicator light turns on, and the engine control module controls the gear shift according to the vehicle's driving condition, without using the O/D range.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	40 (*2)	E6	A 42	J2	43
A36	42	E7	B 42	S1	A 41 (*2)
C2	40 (*2)		F 42		B 41 (*2)
C7	A 42	E9	D 42		C 41 (*2)
C8	B 42	E10	E 42	S14	43
E3	40 (*2)	I15	43	T4	41 (*2)
E4	B 40 (*2)	J1	43	T12	41 (*2)

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1H		
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B		
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

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

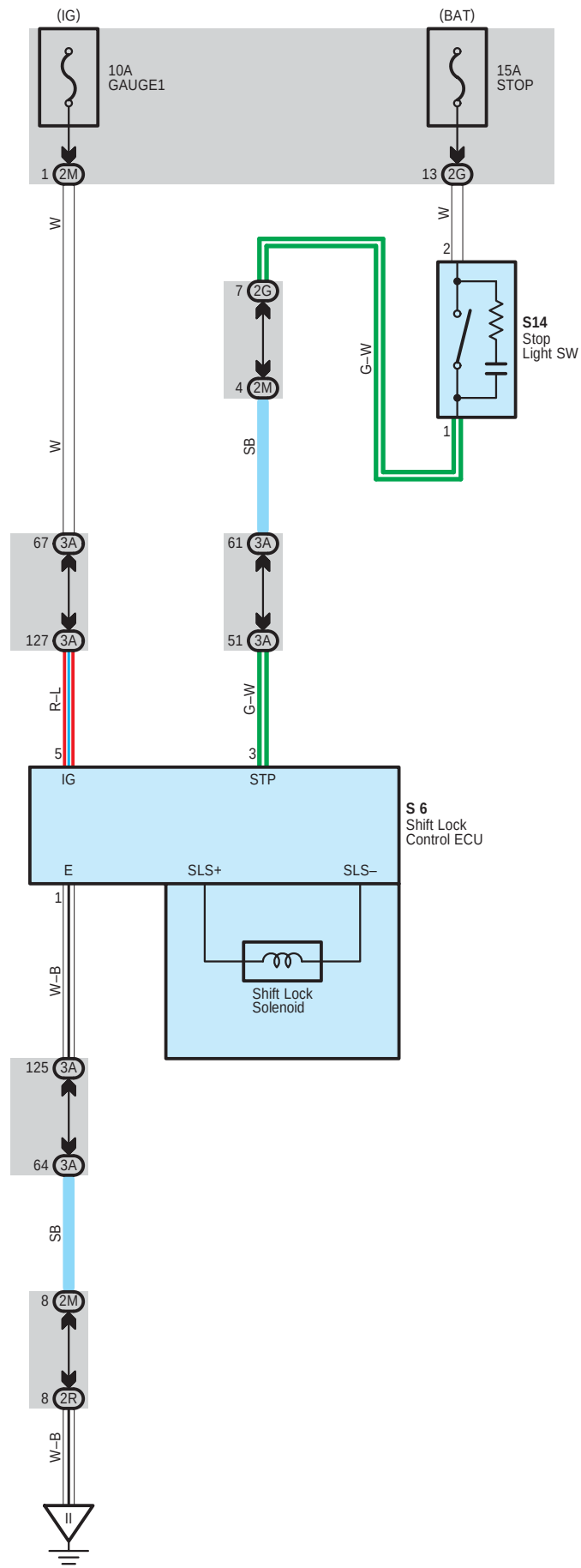
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

**: Ground Points**

Code	See Page	Ground Points Location
EC	49 (*2)	Left Fender
ED		
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Shift Lock



System Outline

Shift Lock Mechanism

If the brake pedal is depressed with the ignition SW set at ON (The stop light SW is on), the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

: Parts Location

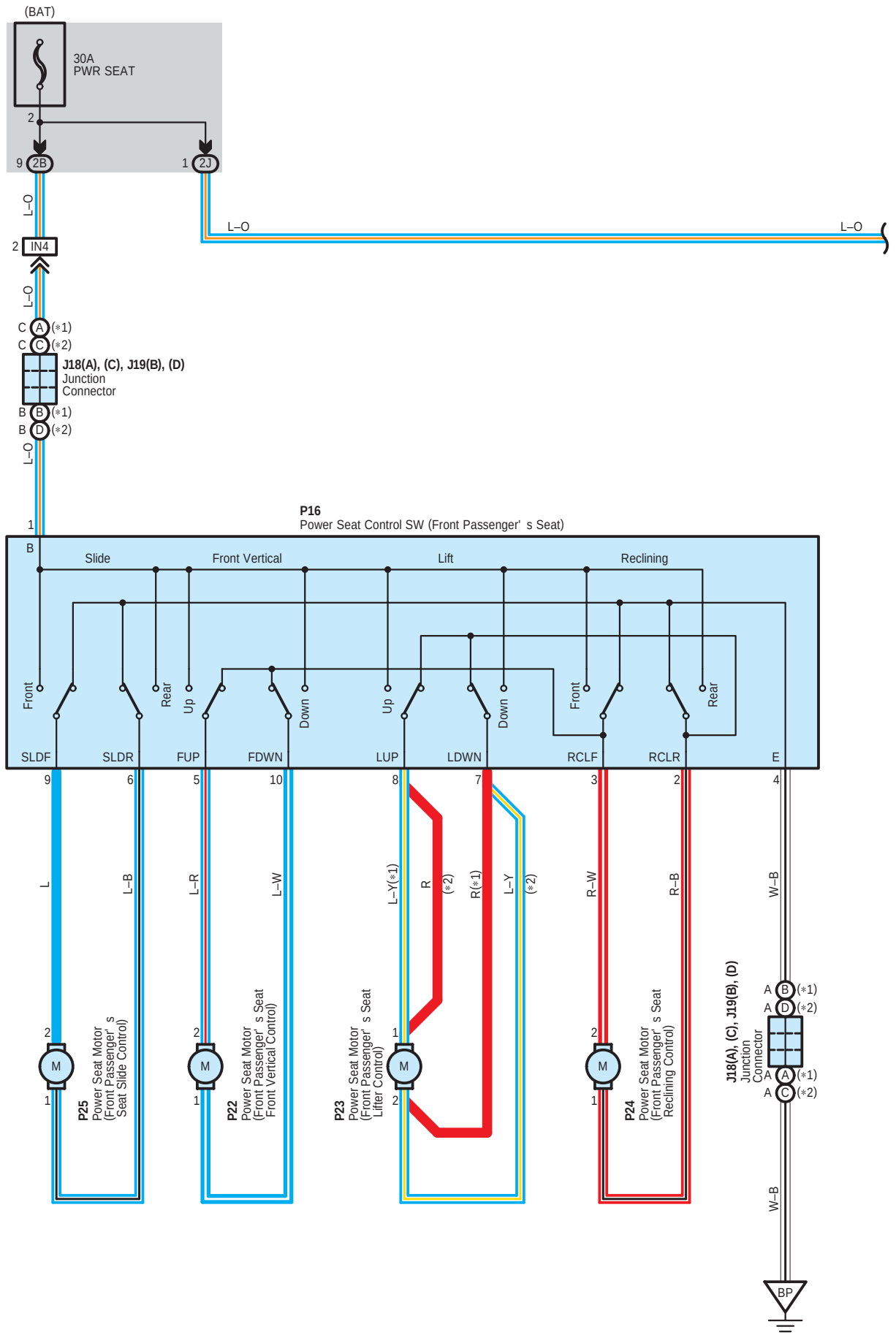
Code	See Page	Code	See Page	Code	See Page
S6	43	S14	43		

: Junction Block and Wire Harness Connector

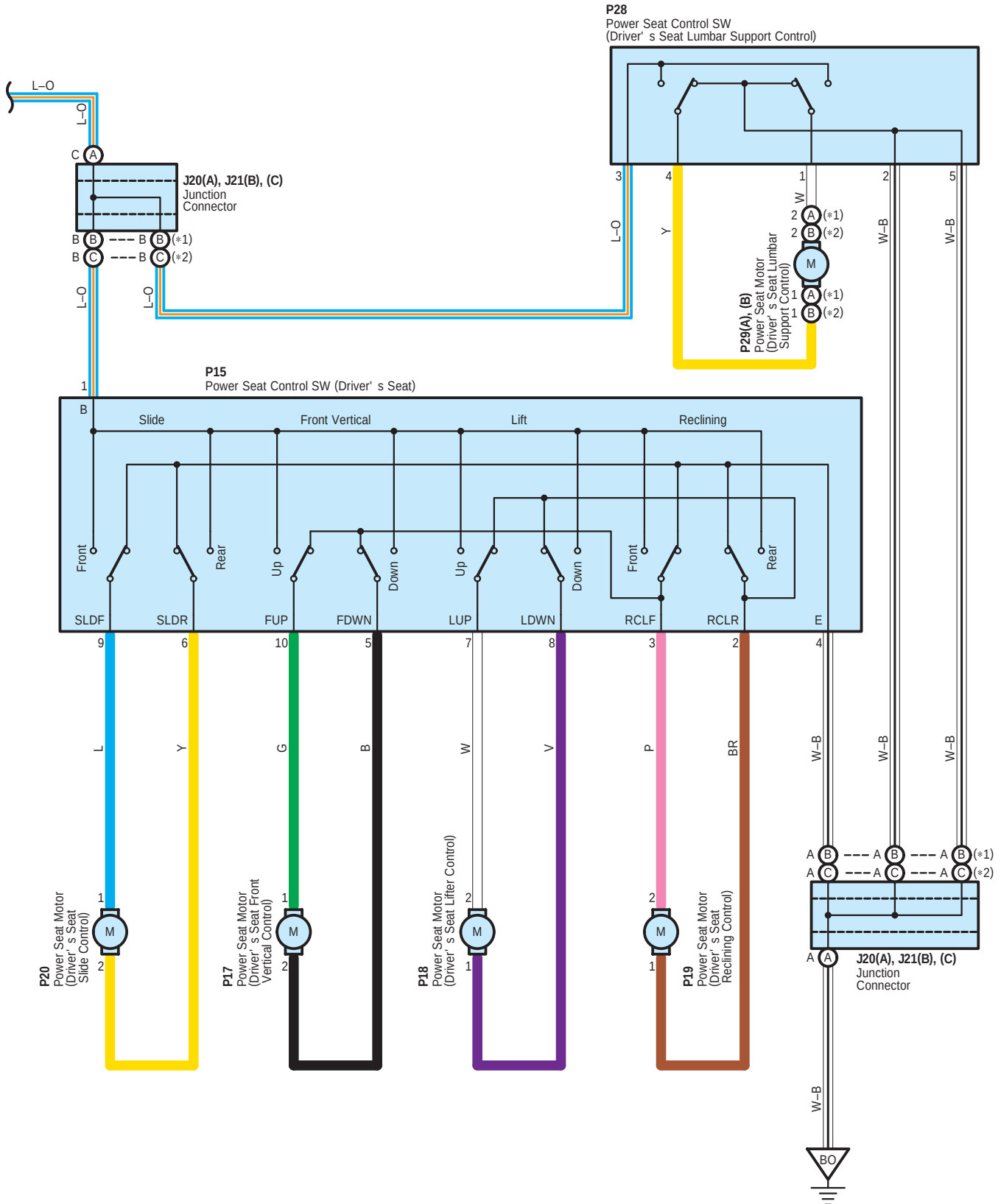
Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

: Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH



- * 1 : TMC Made
- * 2 : TMMK Made



Power Seat

: Parts Location

Code		See Page	Code		See Page	Code		See Page
J18	A	46 (*3)	J21	C	47 (*4)	P24		46 (*3)
	C	46 (*3)		P15	46 (*3)	P25		46 (*3)
J19	B	46 (*3)		P16	46 (*3)	P28		46 (*3)
	D	46 (*3)		P17	46 (*3)			47 (*4)
J20	A	46 (*3)		P18	46 (*3)	P29	A	46 (*3)
		47 (*4)		P19	46 (*3)			47 (*4)
J21	B	46 (*3)		P20	46 (*3)		B	46 (*3)
		47 (*4)		P22	46 (*3)			47 (*4)
	C	46 (*3)		P23	46 (*3)			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2J	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

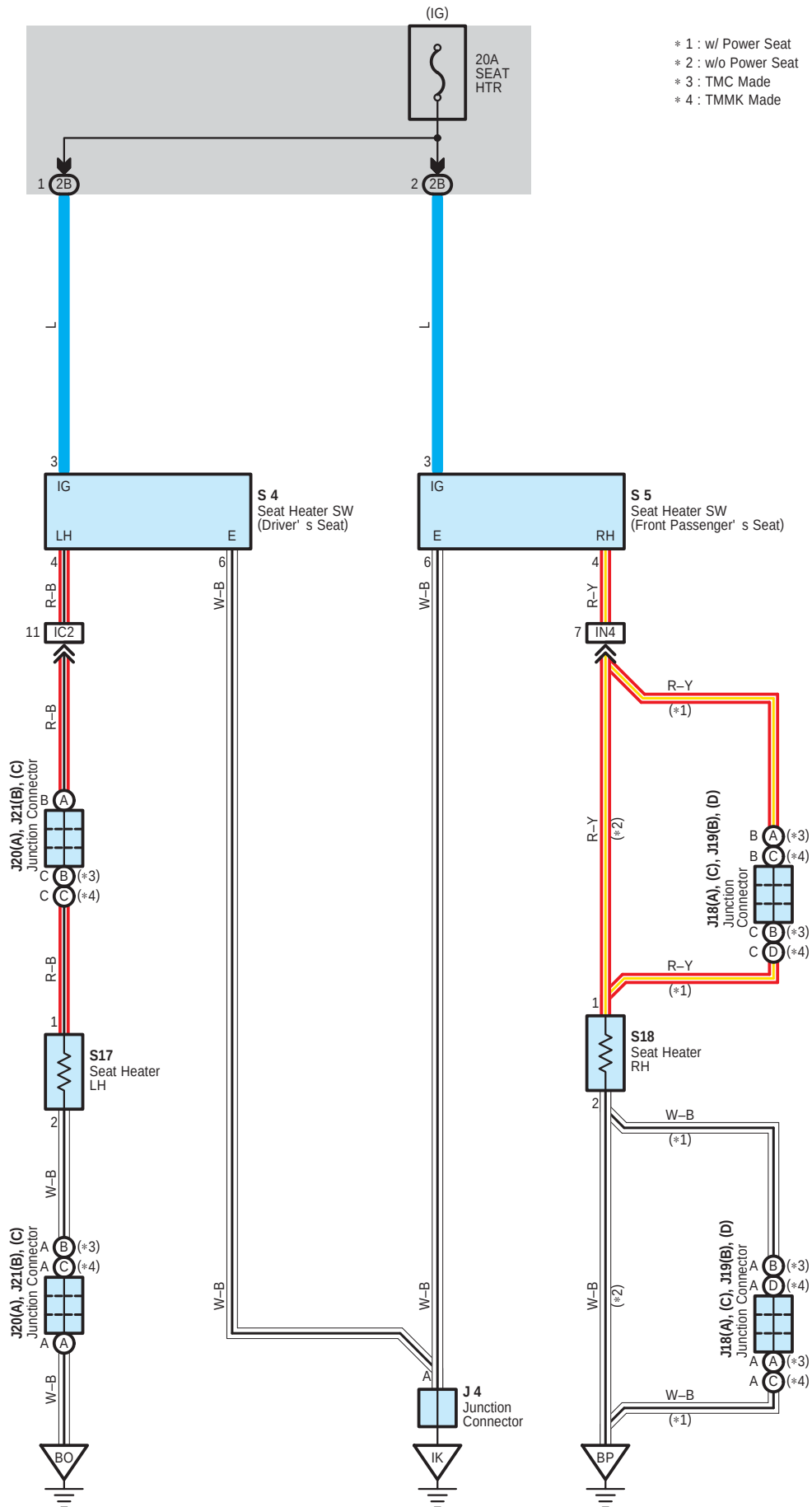
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
BO	52	Under the Driver's Seat
BP	52	Under the Front Passenger's Seat

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Seat Heater



 : Parts Location

Code		See Page	Code		See Page	Code	See Page
J4		43	J20	A	47 (*4)	S5	43
J18	A	46 (*3)	J21	B	46 (*3)	S17	46 (*3)
	C	46 (*3)			47 (*4)	S18	46 (*3)
J19	B	46 (*3)		C	46 (*3)		47 (*4)
	D	46 (*3)			47 (*4)		
J20	A	46 (*3)	S4		43		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

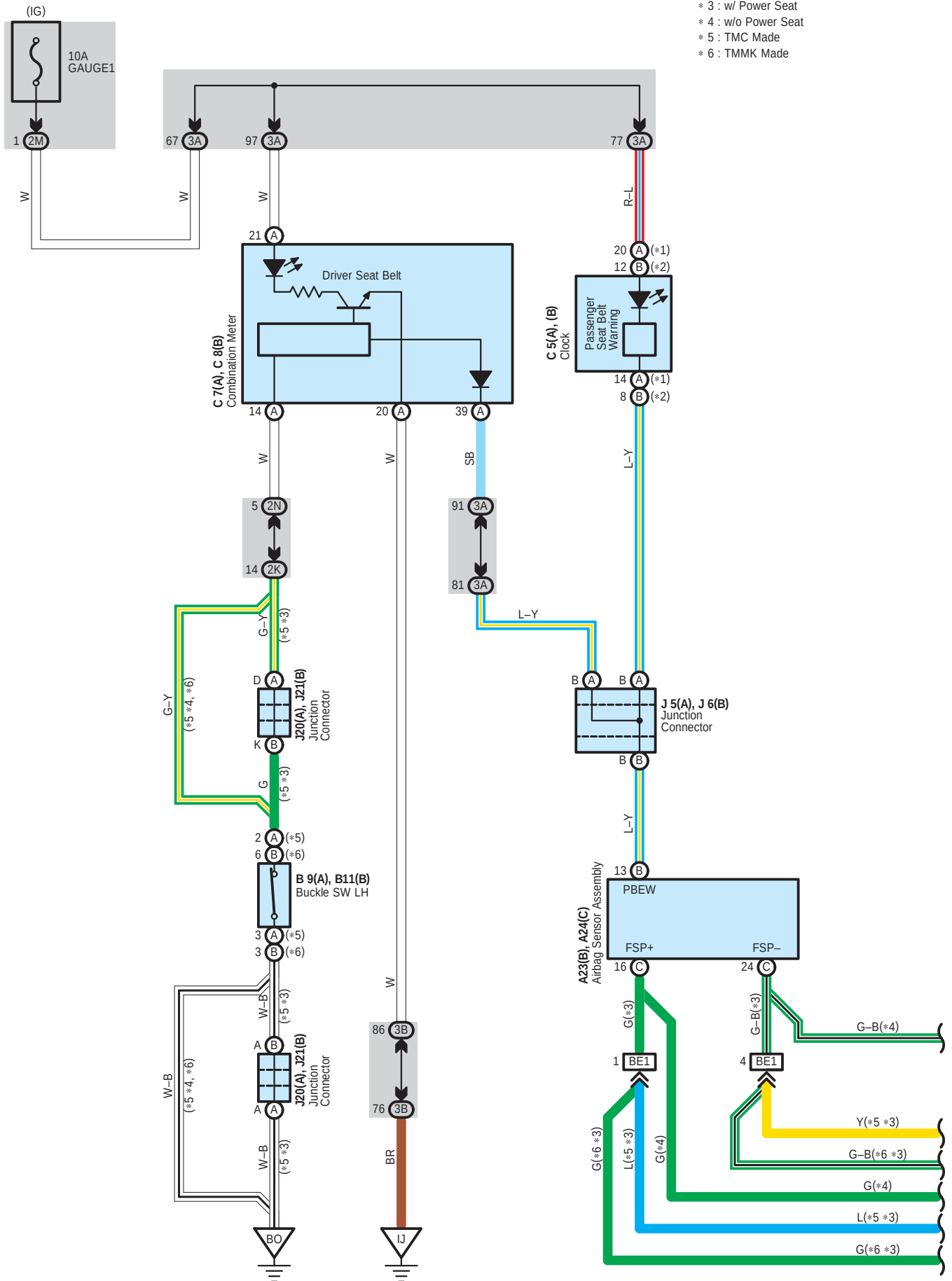
 : Ground Points

Code	See Page	Ground Points Location
IK	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat
BP	52	Under the Front Passenger's Seat

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Seat Belt Warning

- * 1 : Automatic A/C
- * 2 : Manual A/C
- * 3 : w/ Power Seat
- * 4 : w/o Power Seat
- * 5 : TMC Made
- * 6 : TMMK Made



Seat Belt Warning

System Outline

When the driver has not fastened the seat belt while the ignition SW is ON, the driver seat belt warning light blinks, and a warning buzzer comes on.
Also, in the front passenger seat, a sensor recognizes passenger, and when the passenger has not fastened the seat belt, the front passenger seat belt warning light blinks.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A23	B	42	B11	B	47 (*4)	J19	B	46 (*3)
A24	C	42	C5	A	42	J20	D	46 (*3)
B9	A	46 (*3)		B	42		A	46 (*3)
		47 (*4)	C7	A	42			47 (*4)
B10	A	46 (*3)	C8	B	42	J21	B	46 (*3)
		47 (*4)	J5	A	43			47 (*4)
	B	46 (*3)	J6	B	43	O4	B	46 (*3)
		47 (*4)	J18	A	46 (*3)	O10	D	47 (*4)
B11	B	46 (*3)		C	46 (*3)			

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2N		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
BE1	53	Floor No.2 Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

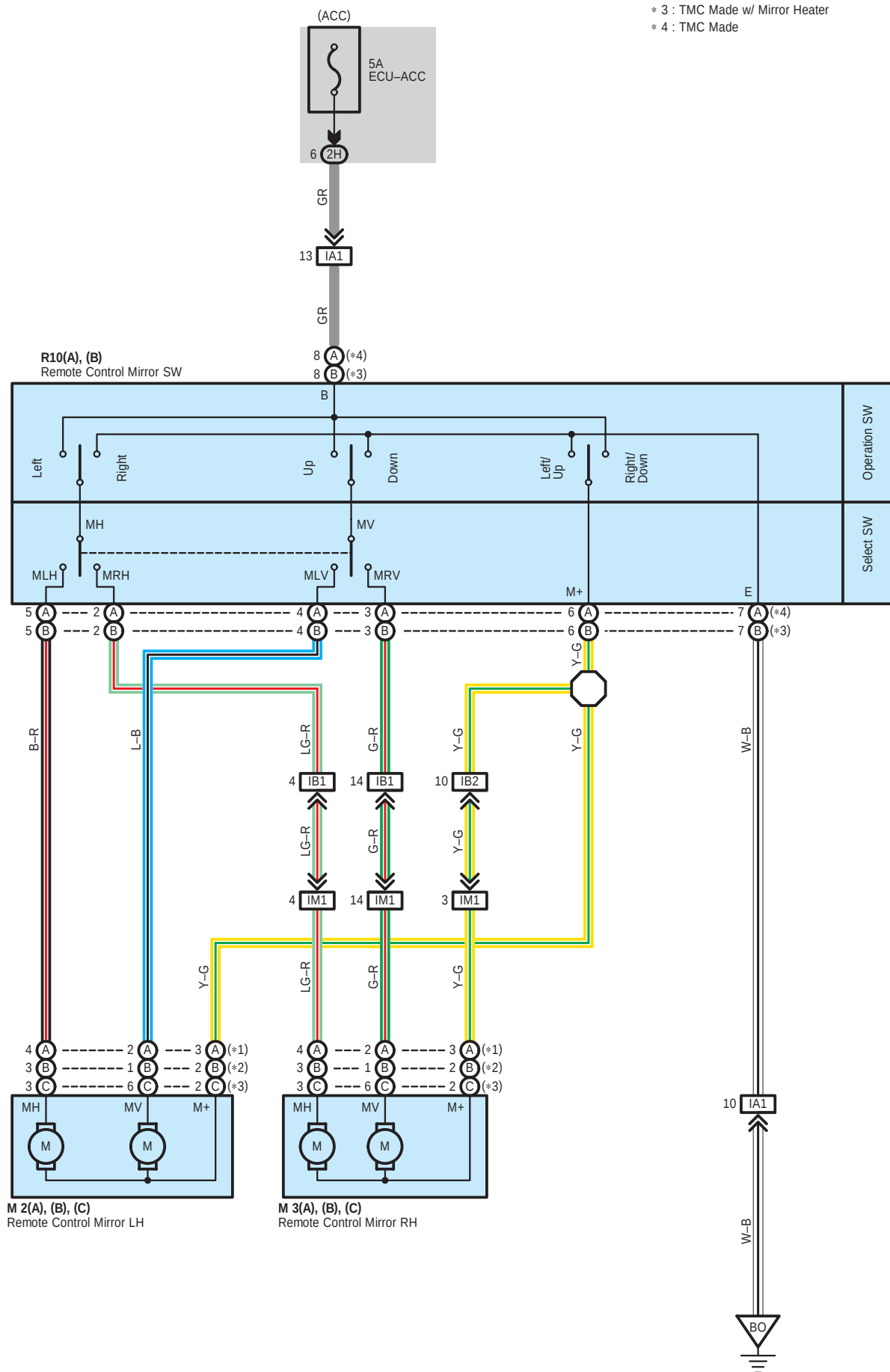
▽ : Ground Points

Code	See Page	Ground Points Location
IJ	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat
BP	52	Under the Front Passenger's Seat
BR	52	Front Side of Rear Quarter Wheel House RH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Remote Control Mirror

- * 1 : TMMK Made
- * 2 : TMC Made w/o Mirror Heater
- * 3 : TMC Made w/ Mirror Heater
- * 4 : TMC Made



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
M2	A	45	M3	A	45	R10	A	45
	B	45		B	45		B	45
	C	45		C	45			

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

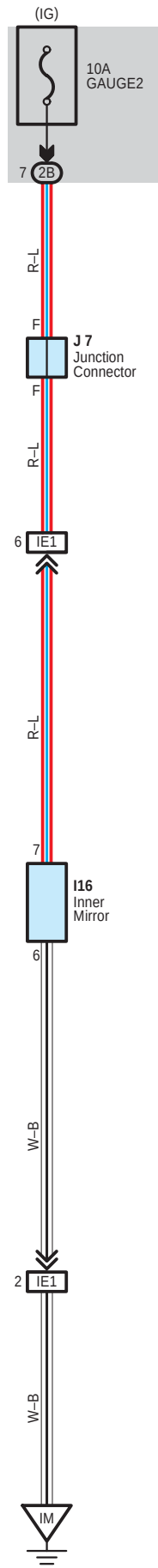
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
BO	52	Under the Driver's Seat

Automatic Glare-Resistant EC Mirror



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
I16	44	J7	43		

 : Junction Block and Wire Harness Connector

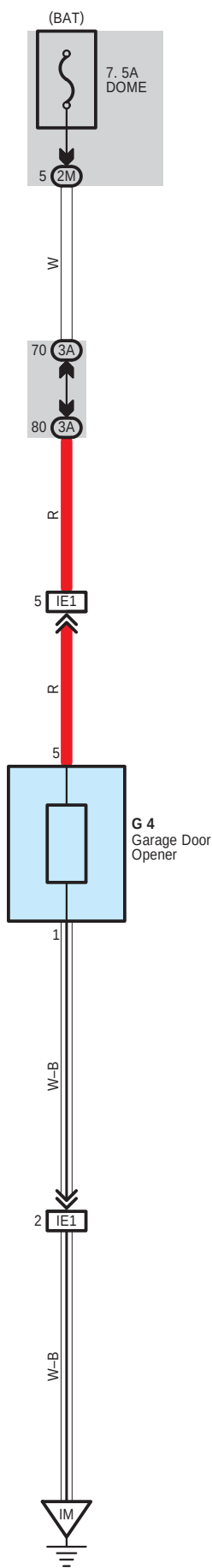
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)

 : Ground Points

Code	See Page	Ground Points Location
IM	50	Instrument Panel Reinforcement RH



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
G4	44				

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

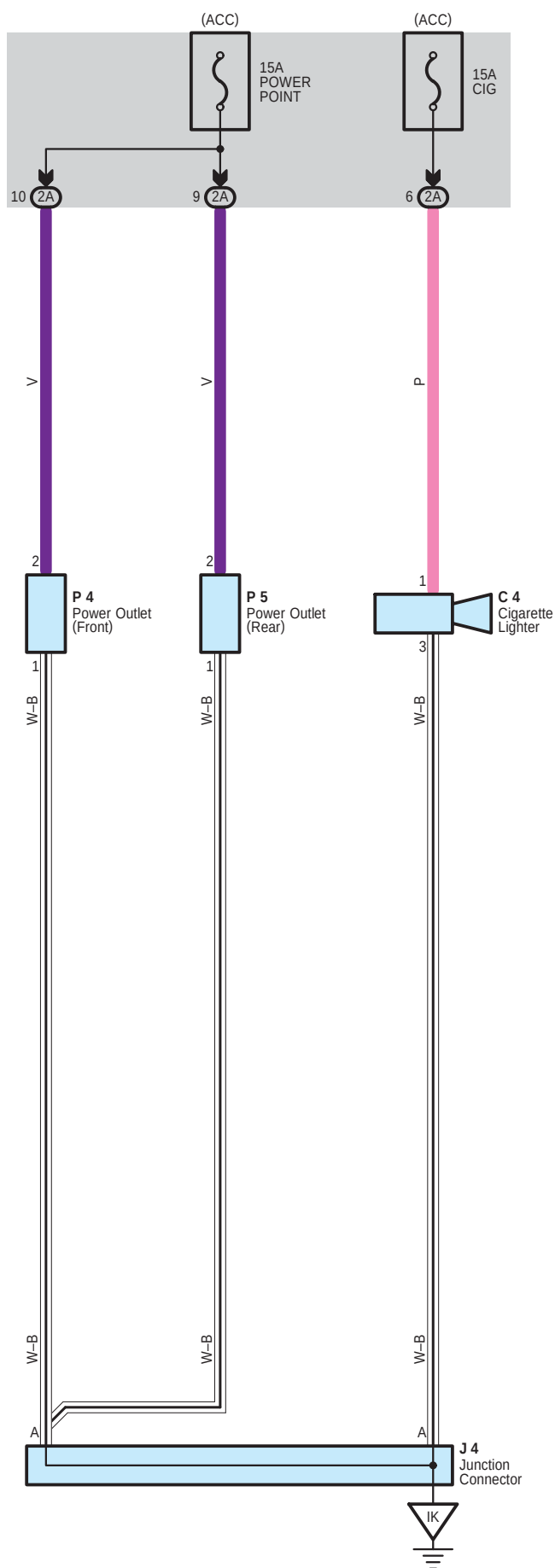
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)

 : Ground Points

Code	See Page	Ground Points Location
IM	50	Instrument Panel Reinforcement RH

Power Outlet and Cigarette Lighter



 : Parts Location

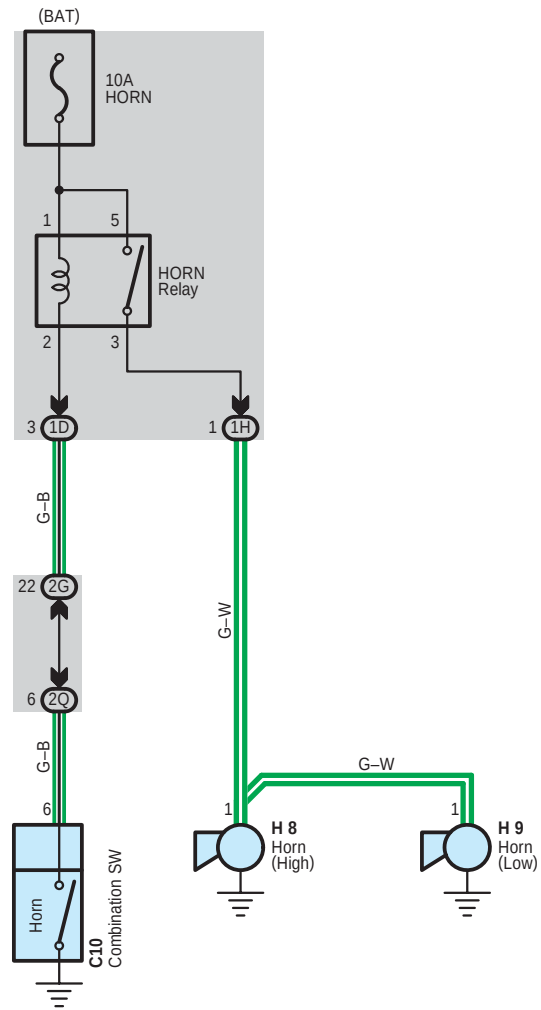
Code	See Page	Code	See Page	Code	See Page
C4	42	P4	43		
J4	43	P5	43		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Ground Points

Code	See Page	Ground Points Location
IK	50	Instrument Panel Brace LH



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
C10	42	H8	40 (*2)	H9	40 (*2)
H8	38 (*1)	H9	38 (*1)		

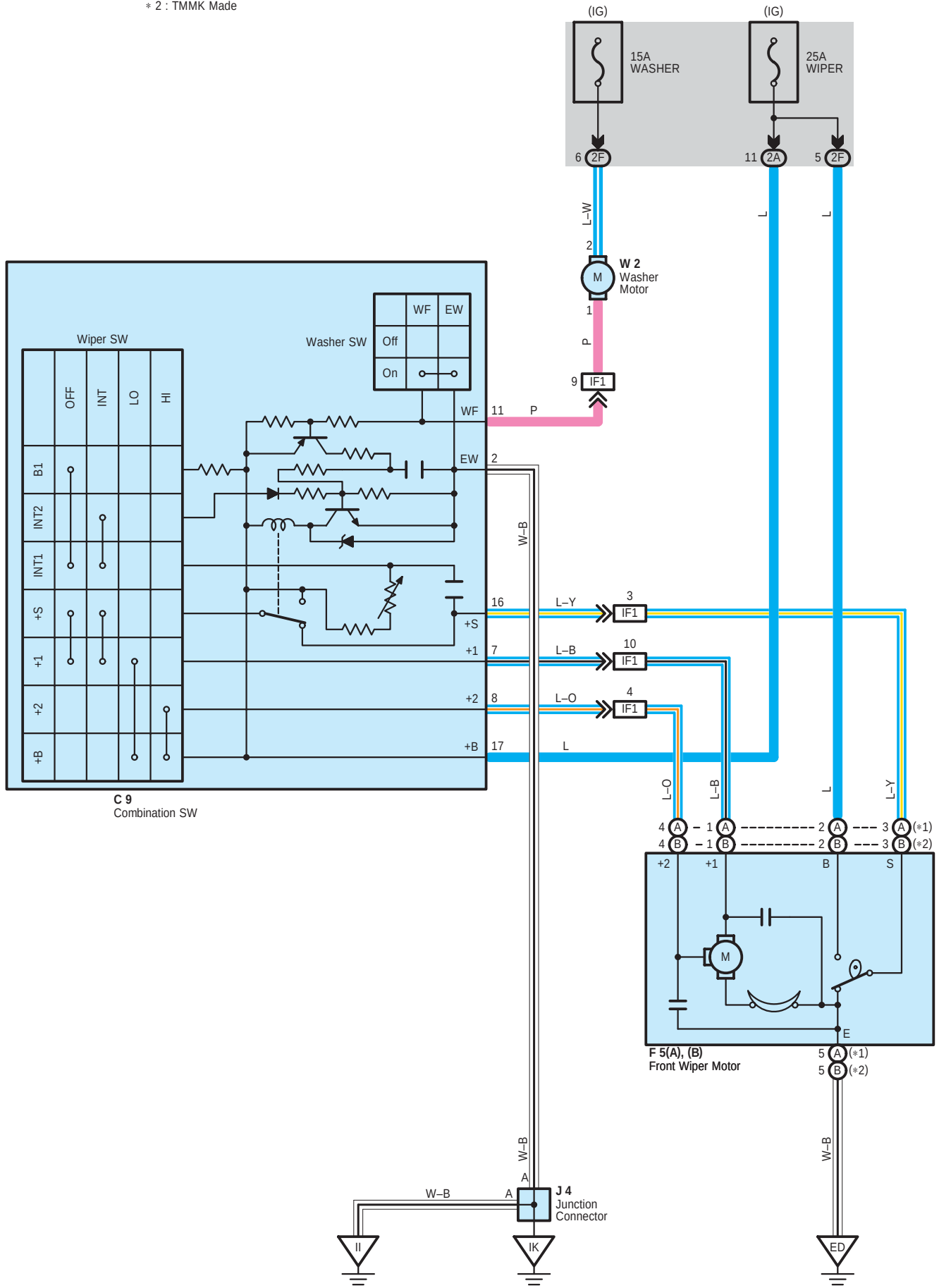
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1H		
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2Q	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Wiper and Washer

* 1 : TMC Made
* 2 : TMMK Made



System Outline

With the ignition SW turned on, the current flows to TERMINAL 17 of the wiper and washer SW and TERMINAL 2 of the front wiper motor through the WIPER fuse. The current flows to TERMINAL 2 of the washer motor through the WASHER fuse.

1. Low Speed Position

With the wiper and washer SW turned to LO position, the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

2. High Speed Position

With the wiper and washer SW turned to HI position, the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 8 to TERMINAL 4 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at high speed.

3. INT Position

With the wiper and washer SW turned to INT position, the wiper relay operates and current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 2 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper operates. Intermittent operation is controlled by a condenser charge and discharge function in the relay.

4. Washer Interlocking Operation

With the wiper and washer SW pulled to WASHER position (Washer SW ON position), the current flows from the WASHER fuse to TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 11 of the wiper and washer SW to TERMINAL 2 to GROUND and causes the washer motor to run and the window washer to spray. Simultaneously, current flows from the WIPER fuse to TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND, causing the wiper to function.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C9	42	F5	B	38 (*1)	39 (*1)
F5	A			40 (*2)	41 (*2)
		J4		43	

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2F	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

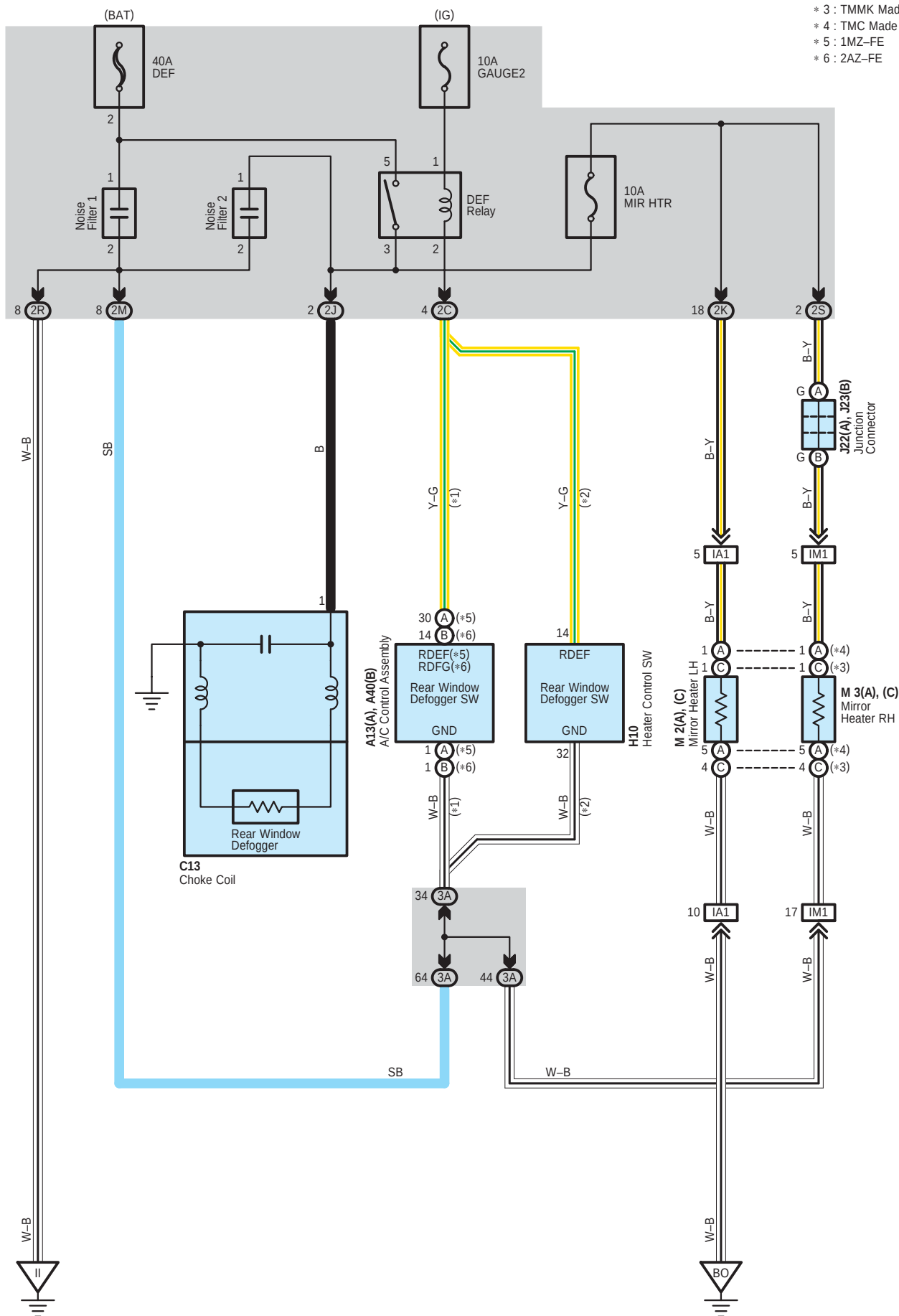
▽ : Ground Points

Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IK	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Rear Window Defogger and Mirror Heater

- * 1 : Automatic A/C
- * 2 : Manual A/C
- * 3 : TMMK Made
- * 4 : TMC Made
- * 5 : 1MZ-FE
- * 6 : 2AZ-FE



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A13	A	42	J22	A	43	M3	A	45
A40	B	42	J23	B	43		C	45
C13		44	M2	A	45			
H10		43		C	45			

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2C	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2J	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
2S		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

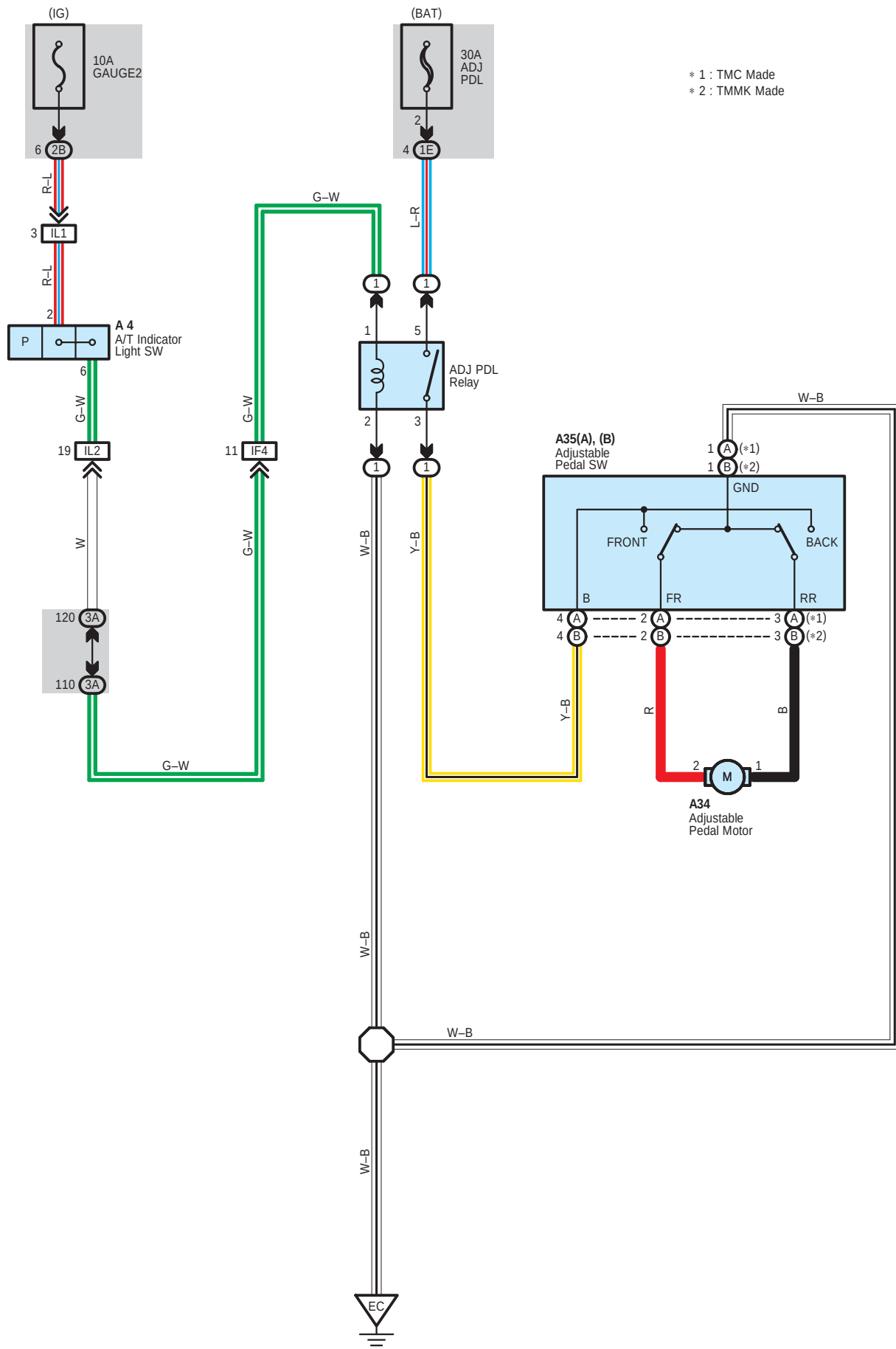
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
BO	52	Under the Driver's Seat

Power Adjustable Pedals



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	A34	42	A35	B
	40 (*2)	A35	A	42	

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

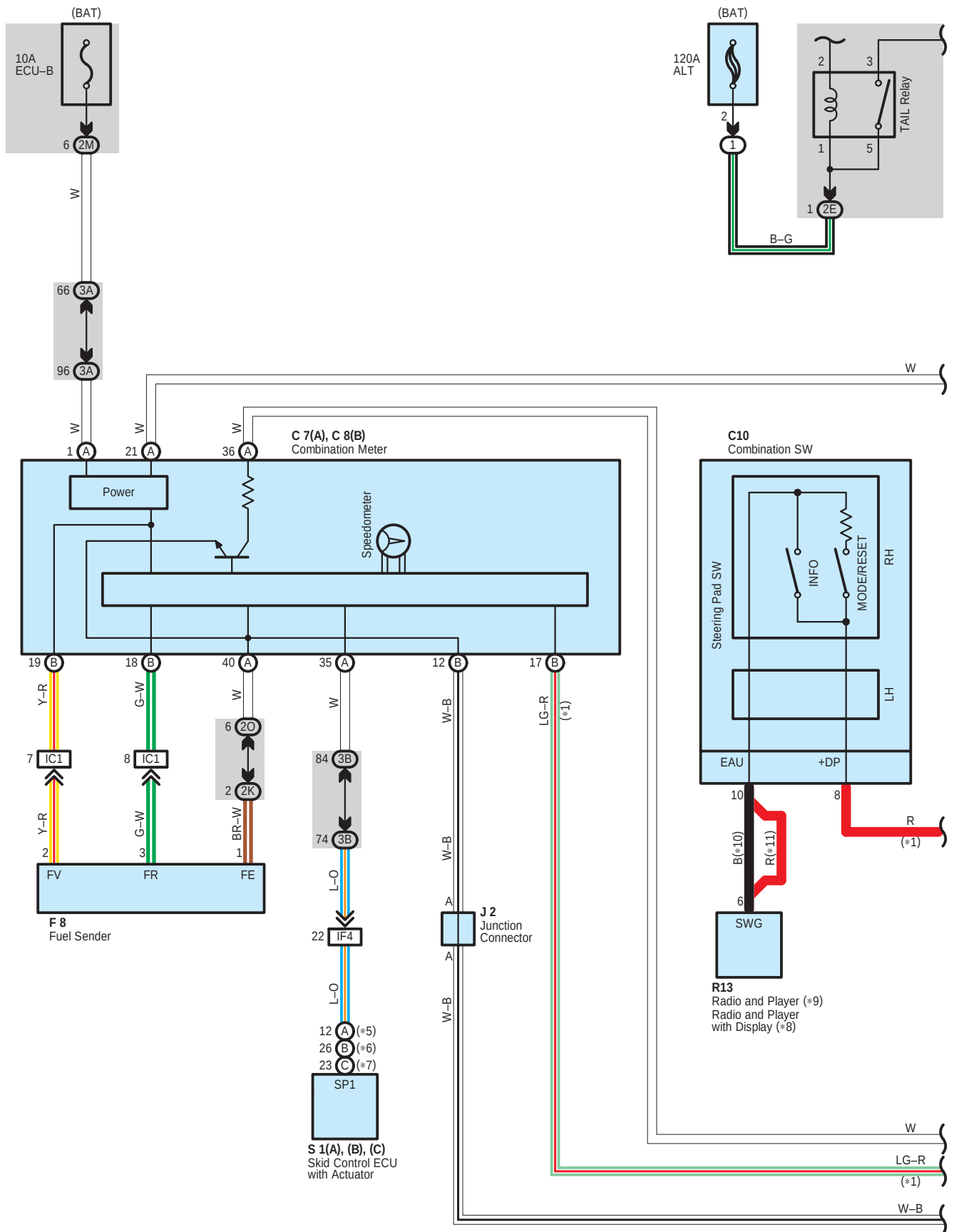
 : Connector Joining Wire Harness and Wire Harness

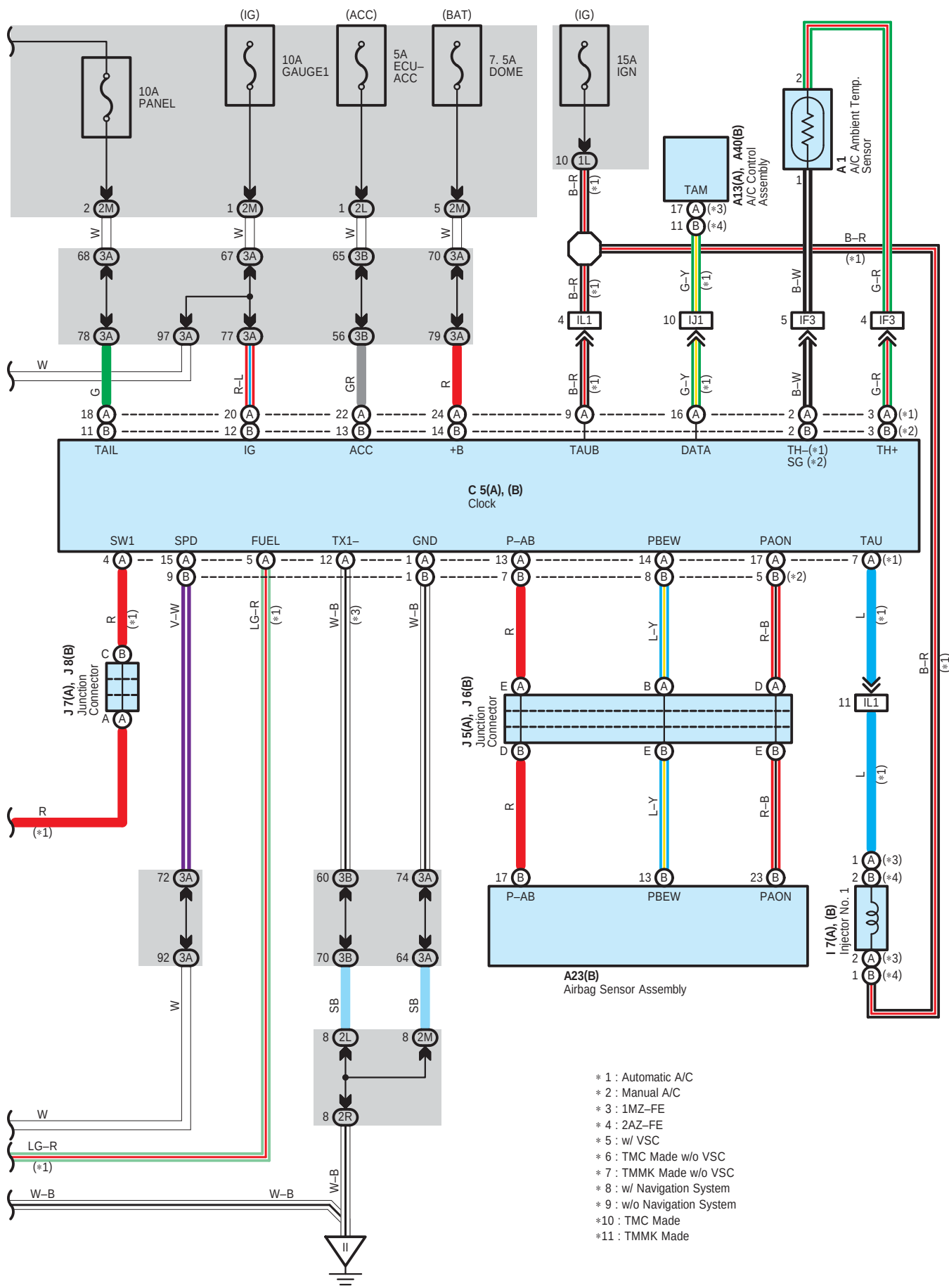
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

 : Ground Points

Code	See Page	Ground Points Location
EC	48 (*1)	Left Fender
	49 (*2)	

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat





Clock

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		38 (*1)	C10		42	J7	A	43
		40 (*2)	F8		44	J8	B	43
A13	A	42	I7	A	39 (*1)	R13		43
A23	B	42			41 (*2)	S1	A	39 (*1)
A40	B	42		B	39 (*1)			41 (*2)
C5	A	42			41 (*2)		B	39 (*1)
	B	42	J2		43			41 (*2)
C7	A	42	J5	A	43		C	39 (*1)
C8	B	42	J6	B	43			41 (*2)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2O		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

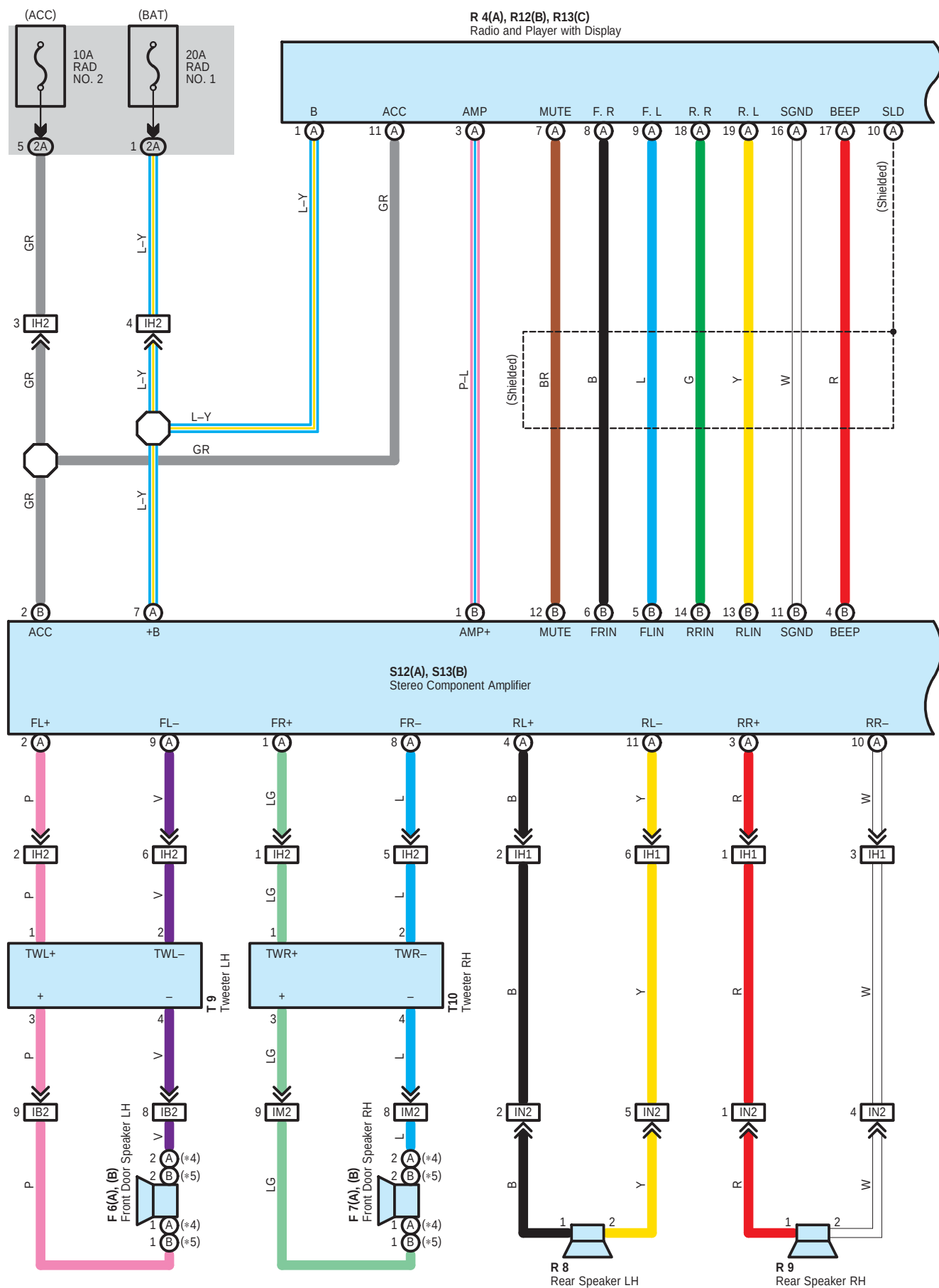
: Connector Joining Wire Harness and Wire Harness

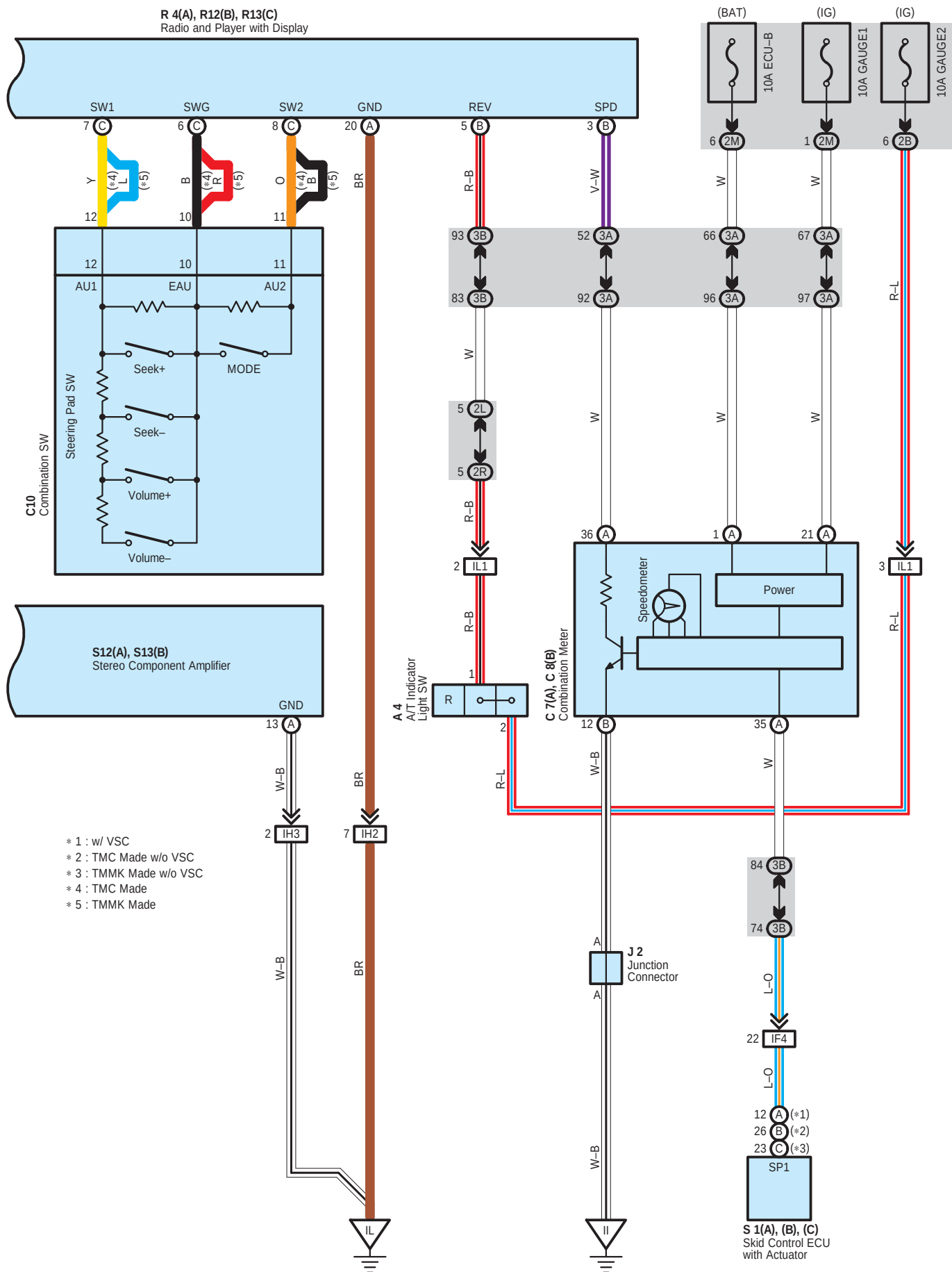
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat





Navigation and Audio System

System Outline

The navigation system displays the operating status and instructions for the radio and player with display. Additionally, the navigation system precisely measures the current vehicle position, displays the map obtained from the map database on the screen, and informs the route to the destination shown on the map using voice guidance.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38 (*1)	J2	43	S1	B 41 (*2)
	40 (*2)	R4 A	43		C 39 (*1)
C7 A	42	R8	45		41 (*2)
C8 B	42	R9	45	S12	A 43
C10	42	R12 B	43	S13	B 43
F6	A 44	R13	C 43	T9	43
	B 44	S1	A 39 (*1)	T10	43
F7	A 44		41 (*2)		
	B 44		B 39 (*1)		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B		
2L	29	
2M		
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

□ : Connector Joining Wire Harness and Wire Harness

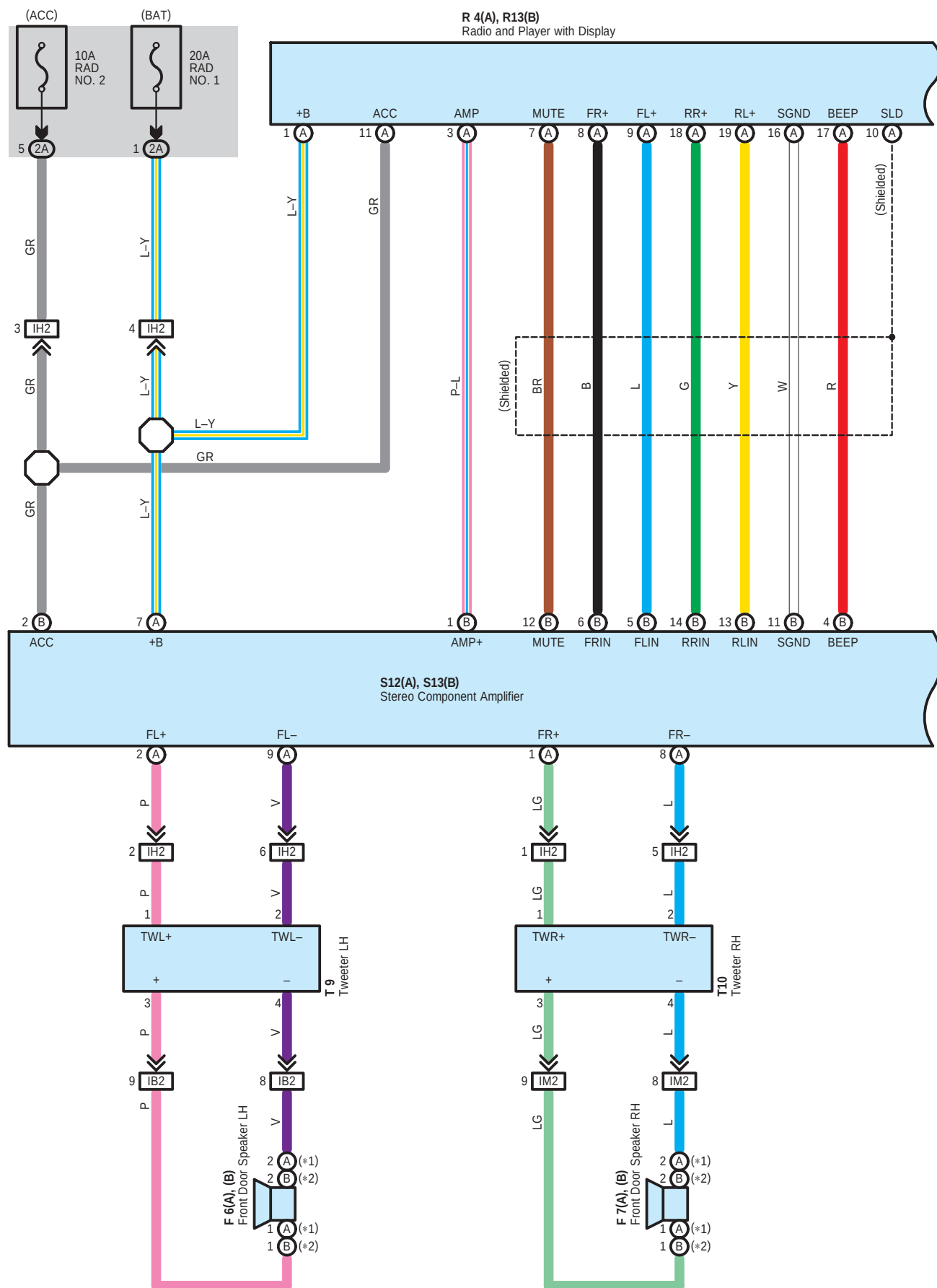
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IH1	50	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2		
IH3		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IM2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IL	50	Instrument Panel Brace RH

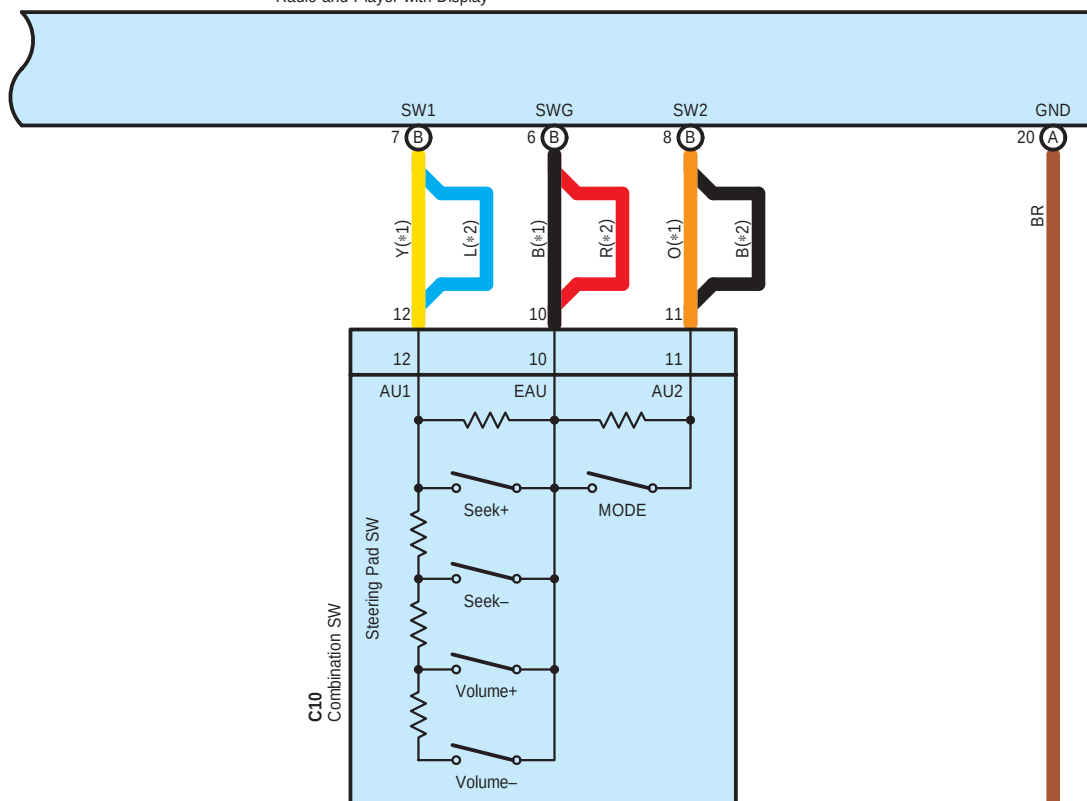
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Audio System for Separate Type Amplifier without Navigation System

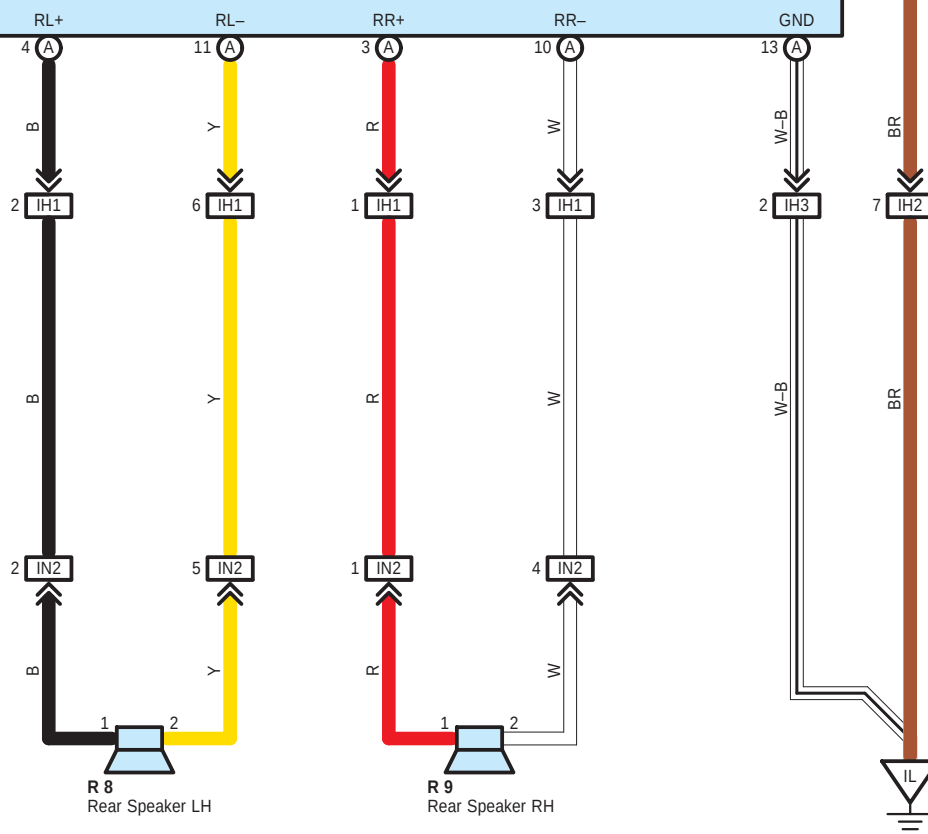


* 1 : TMC Made
 * 2 : TMMK Made

R 4(A), R13(B)
 Radio and Player with Display



S12(A), S13(B)
 Stereo Component Amplifier



Audio System for Separate Type Amplifier without Navigation System

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C10		42	R4	A	43	S13	B	43
F6	A	44	R8		45	T9		43
	B	44	R9		45	T10		43
F7	A	44	R13	B	43			
	B	44	S12	A	43			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

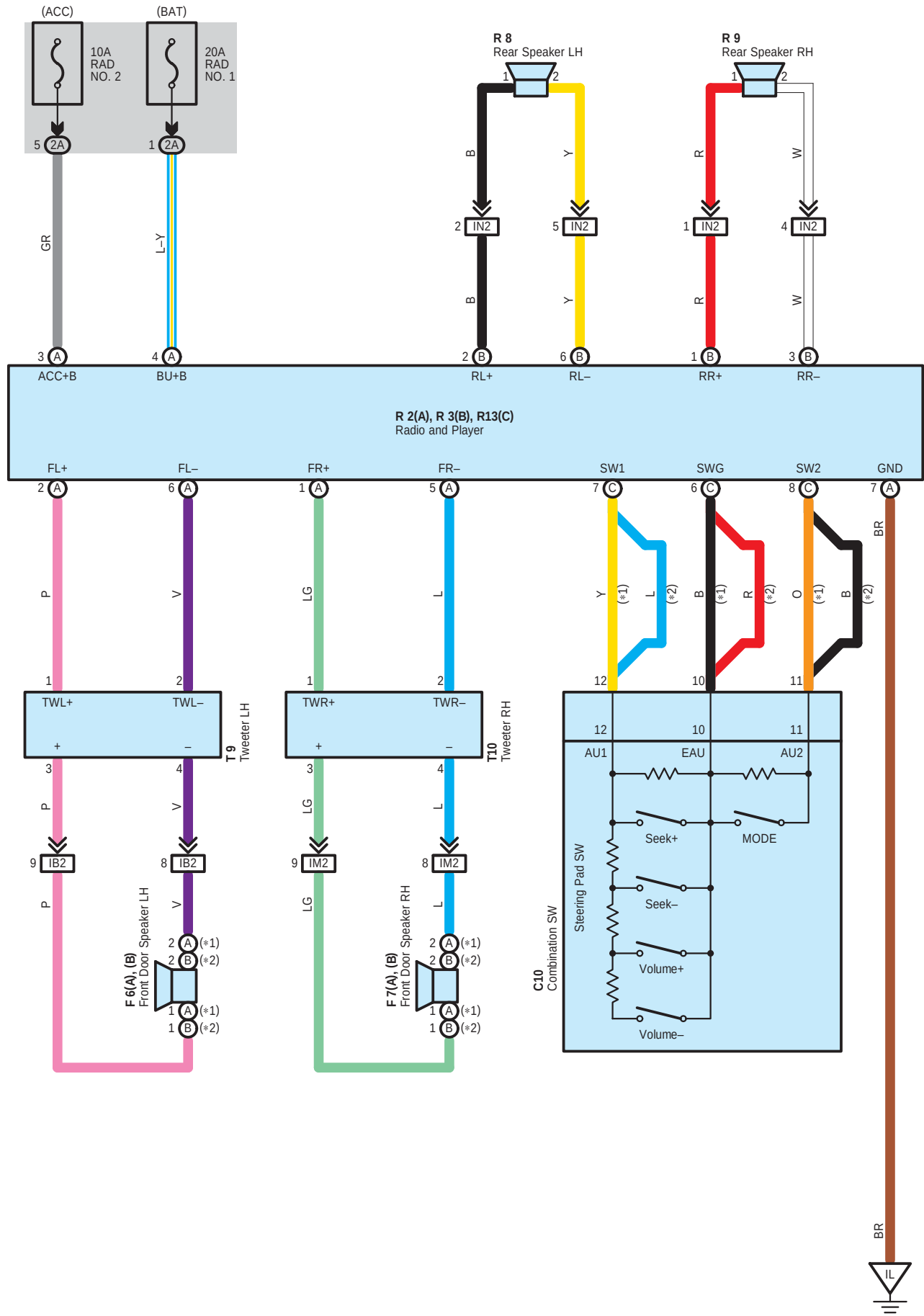
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IH1	50	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2		
IH3		
IM2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IL	50	Instrument Panel Brace RH

Audio System for Built-in Type Amplifier without Navigation System

* 1 : TMC Made
* 2 : TMMK Made



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
C10		42	F7	B	44	R9		45
F6	A	44	R2	A	43	R13	C	43
	B	44	R3	B	43	T9		43
F7	A	44	R8		45	T10		43

 : Junction Block and Wire Harness Connector

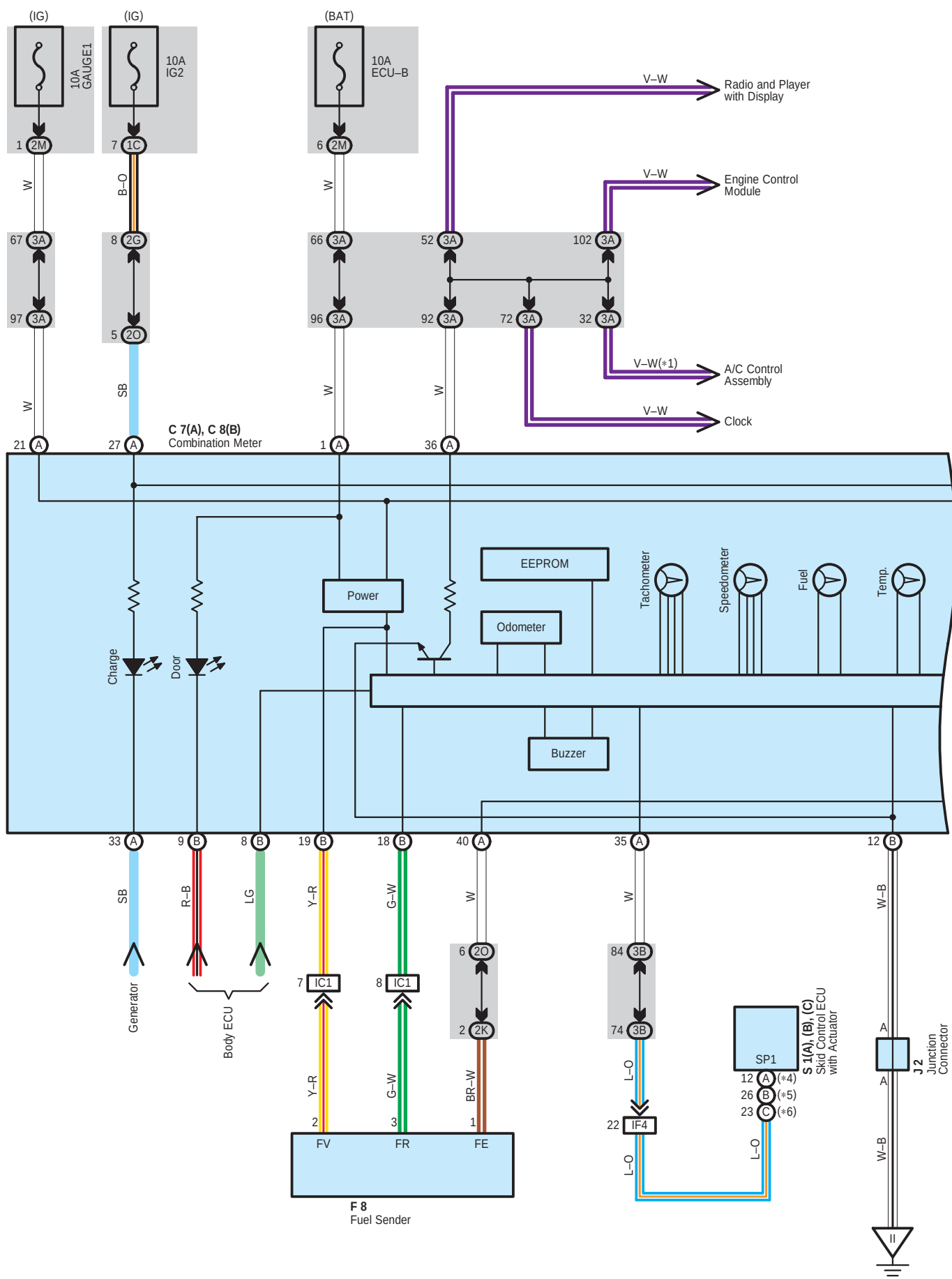
Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

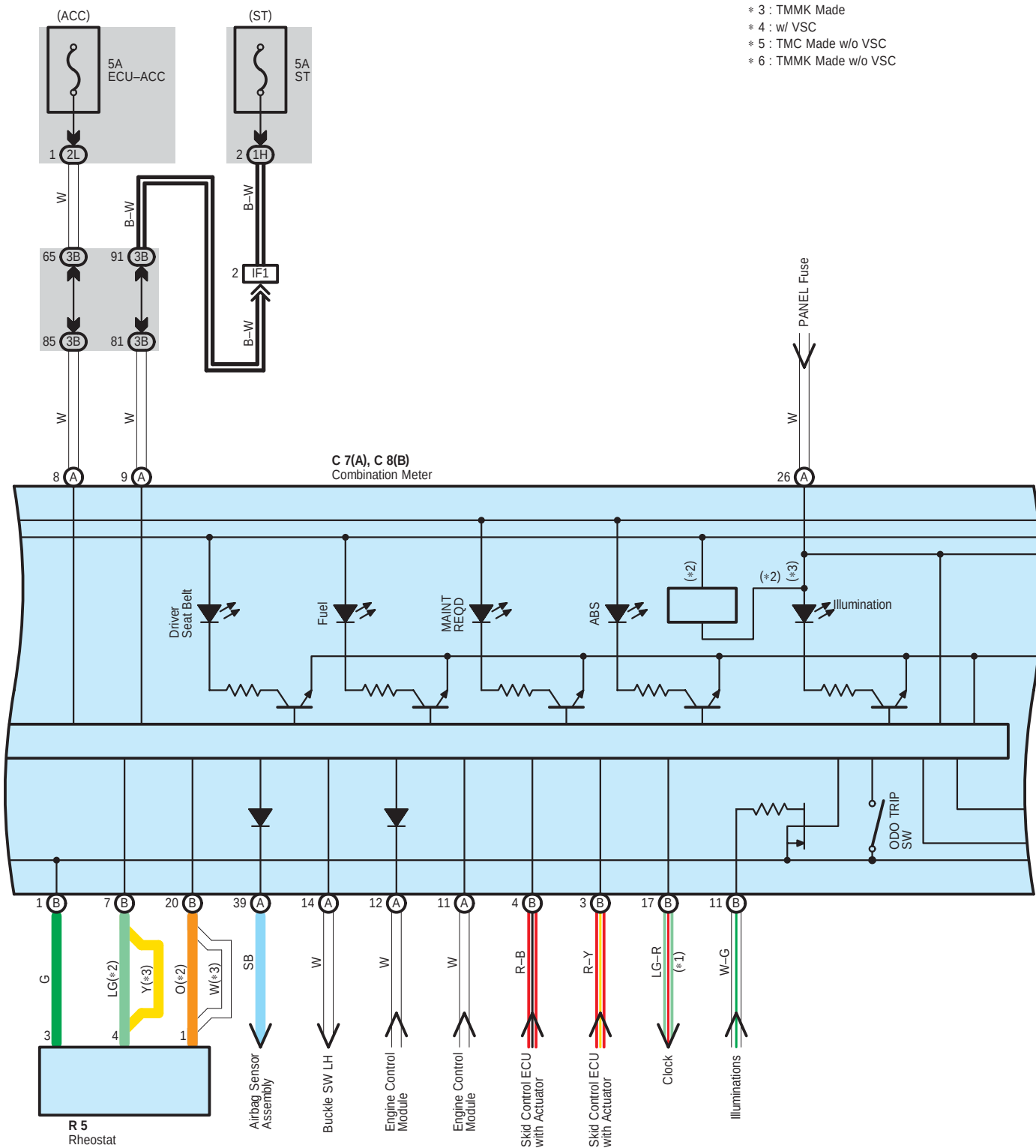
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

 : Ground Points

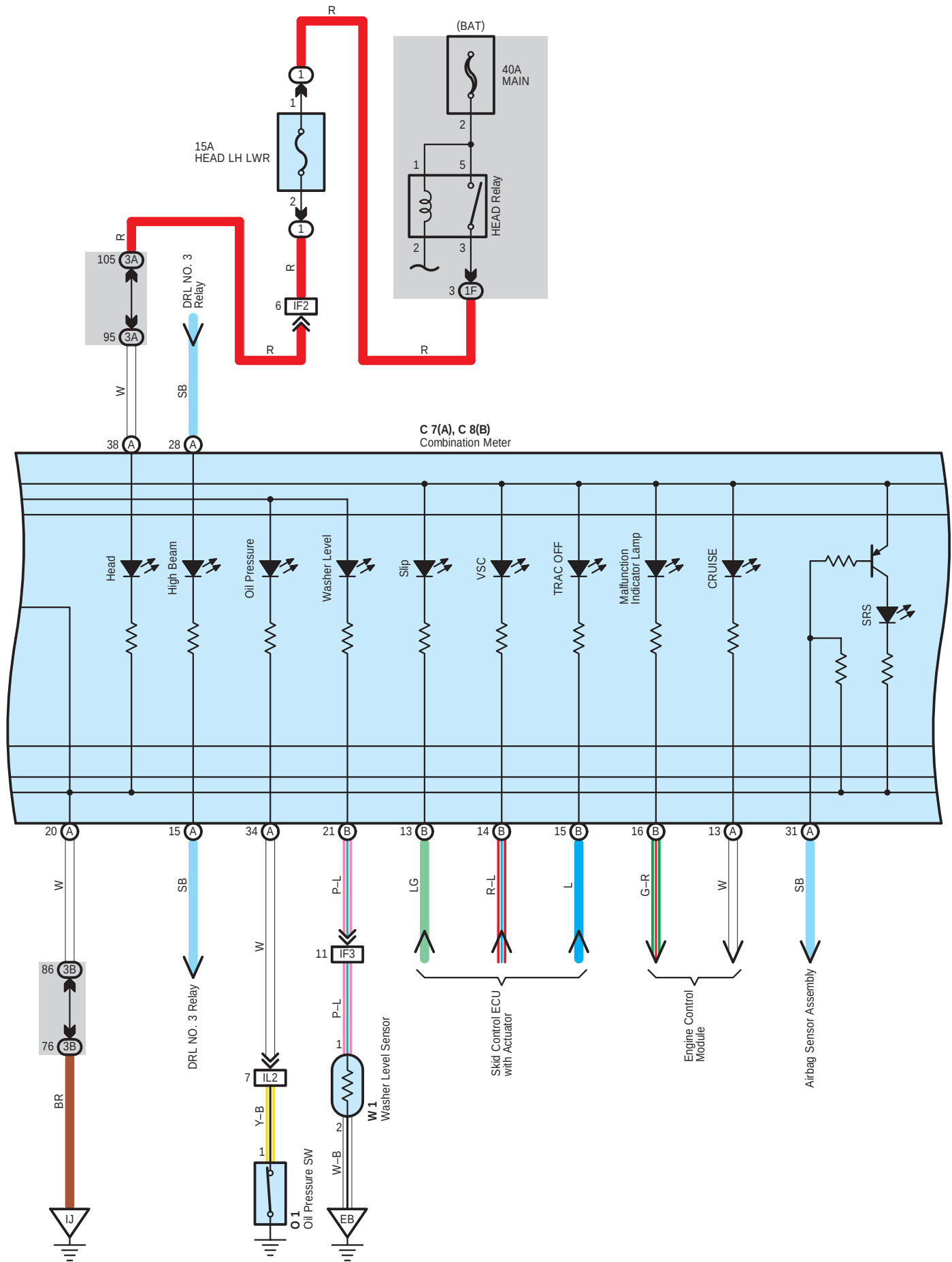
Code	See Page	Ground Points Location
IL	50	Instrument Panel Brace RH

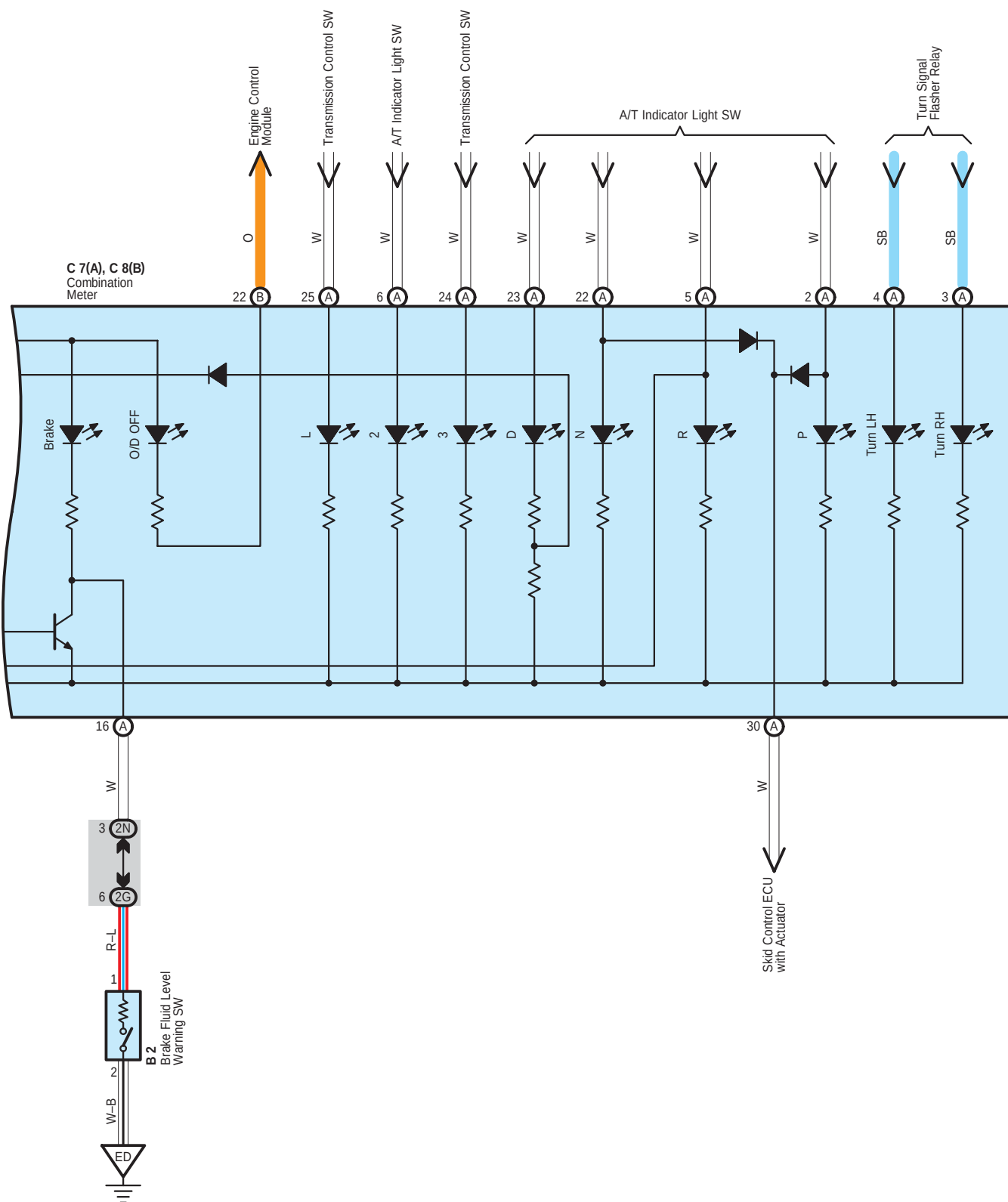


- * 1 : Automatic A/C
- * 2 : TMC Made
- * 3 : TMMK Made
- * 4 : w/ VSC
- * 5 : TMC Made w/o VSC
- * 6 : TMMK Made w/o VSC



Combination Meter





Combination Meter

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B2	38 (*1)	O1	39 (*1)	S1	B 41 (*2)
	40 (*2)		41 (*2)		C 39 (*1)
C7	A 42	R5	43		41 (*2)
C8	B 42	S1	A 39 (*1)	W1	39 (*1)
F8	44		41 (*2)		41 (*2)
J2	43		B 39 (*1)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F		
1H		
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2L	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M		
2N		
2O		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

: Connector Joining Wire Harness and Wire Harness

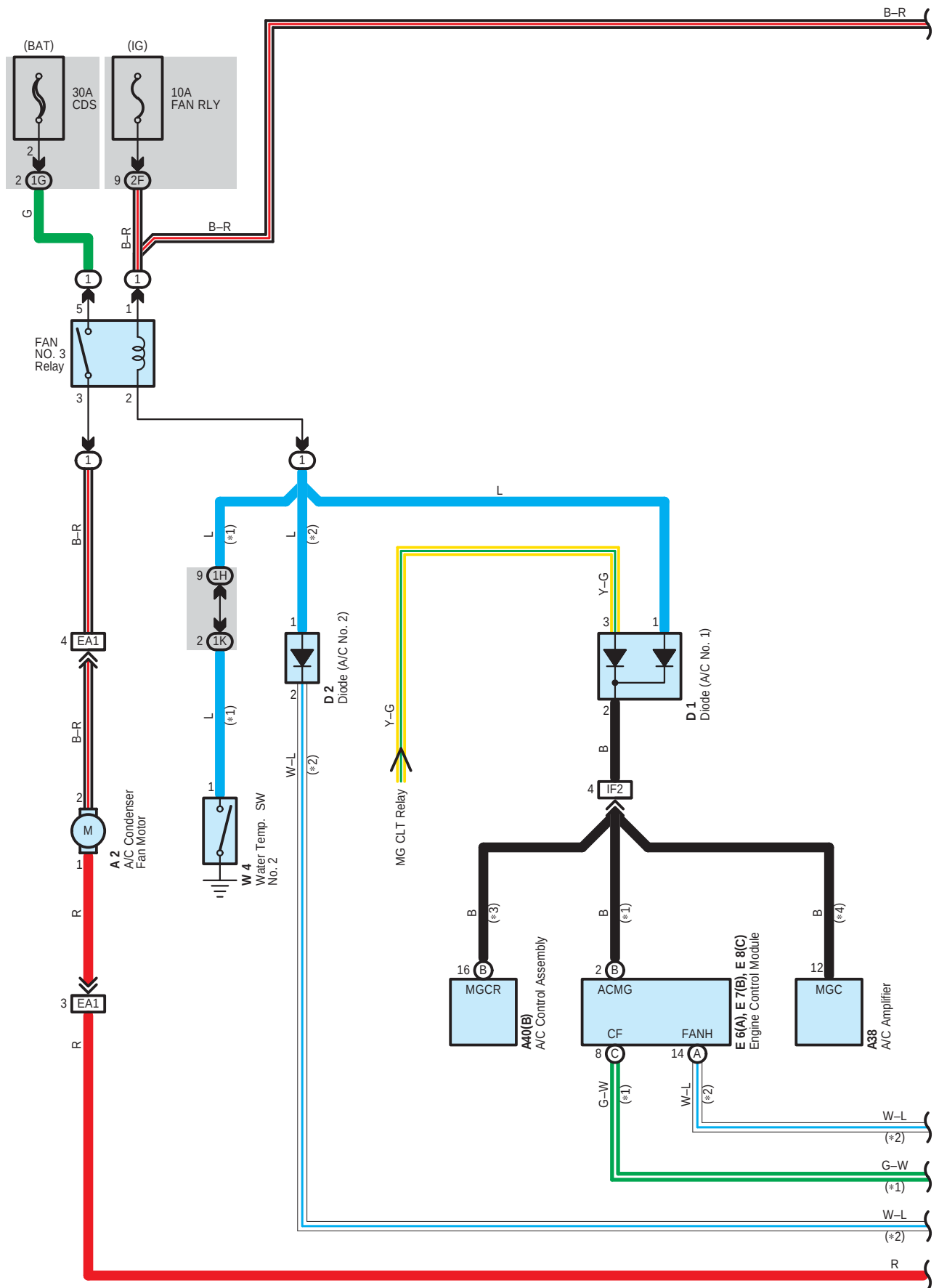
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF2		
IF3		
IF4		
IL2	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

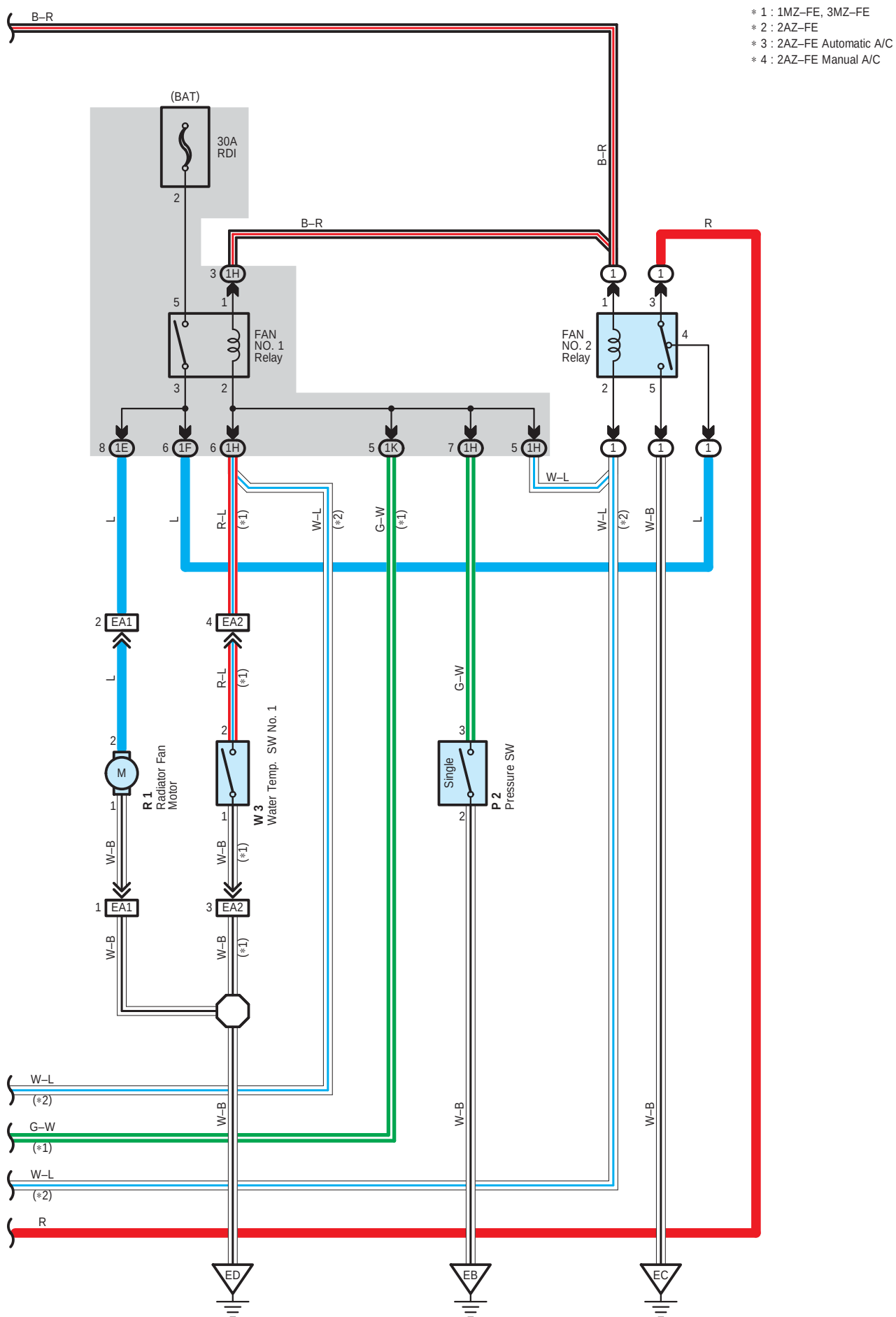
: Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
ED	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Radiator Fan and Condenser Fan





Radiator Fan and Condenser Fan

System Outline

Fan Motor Operation (3MZ-FE, 1MZ-FE)

With the ignition SW turned on, the current through the FAN RLY fuse flows to the FAN NO.1 relay (Coil side), FAN NO.2 relay (Coil side) and FAN NO.3 relay (Coil side).

1. Low Speed Operation

Only when the A/C system is activated or the water temp. SW No.2 is turned on, the A/C condenser fan motor and the radiator fan motor rotates at low speed.

When the A/C system is activated, the current from FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the diode to TERMINAL 2 to TERMINAL (B) 2 of the engine control module causing the FAN NO.3 relay to turn on. As a result, the current through the CDS fuse flows to TERMINAL 5 of the FAN NO.3 relay to TERMINAL 3 to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 4 to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND. As this flowing in series for the motors, the motors rotate at low speed.

When the water temp. SW No.2 is turned on, the current from FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the water temp. SW No.2 to GROUND, causing the FAN NO.3 relay to turn on. As a result, the current through the CDS fuse flows the same route as above, rotating the motors at low speed.

2. High Speed Operation

With the pressure SW is turned on and/or the water temp. SW No.1 is turned on, the A/C condenser fan motor and the radiator fan motor rotate at high speed.

When the pressure SW is turned on, the current through the FAN RLY fuse flows to the FAN NO.1 and FAN NO.2 relay (Coil side) to TERMINAL 3 of the pressure SW to TERMINAL 2 to GROUND, and the current through the FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the water temp. SW No.2 to GROUND. As a result, FAN NO.1, NO.2. and NO.3 relay is turned on. At the same time, the current from the RDI fuse flows to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND, and the current from the CDS fuse flows to FAN NO.3 relay (Point side) to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 5 to GROUND.

As the current flowing in parallel for motors as above, the motors rotate at high speed.

When the water temp. SW No.1 is turned on, the current through the FAN RLY fuse flows to the FAN NO.1 and NO.2 relay (Coil side) to TERMINAL 2 of the water temp. SW No.1 to TERMINAL 1 to GROUND, and the current through the FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the water temp. SW No.2 to GROUND. As a result, FAN NO.1, NO.2 and NO.3 relay is turned on. At the same time, the current from the RDI fuse flows to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND, and the current from the CDS fuse flows to FAN NO.3 relay (Point side) to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 5 to GROUND.

As the current flowing in parallel for motors as above, the motors rotate at high speed.

Fan Motor Operation (2AZ-FE)

With the ignition SW turned on, the current through the FAN RLY fuse flows to the FAN NO.1 relay (Coil side), FAN NO.2 relay (Coil side) and FAN NO.3 relay (Coil side).

1. Low Speed Operation

When the ignition SW is turned on and the A/C system is activated, the A/C condenser fan motor and the radiator fan motor rotates at low speed.

When the A/C system is activated, the current from FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the diode to TERMINAL 2 to TERMINAL (B) 16 of the A/C control assembly (Automatic A/C) or 12 of the A/C amplifier (Manual A/C) causing the FAN NO.3 relay to turn on. As a result, the current through the CDS fuse flows to TERMINAL 5 of the FAN NO.3 relay to TERMINAL 3 to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 4 to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND. As this flowing in series for the motors, the motors rotate at low speed.

2. High Speed Operation

When the pressure SW is turned on, the current through the FAN RLY fuse flows to the FAN NO.1 and NO.2 relay (Coil side) to TERMINAL 3 of the pressure SW to TERMINAL 2 to GROUND, and the current through the FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the diode to TERMINAL 2 to TERMINAL 3 of the pressure SW to TERMINAL 2 to GROUND. As a result, FAN NO.1, NO.2. and NO.3 relay is turned on. At the same time, the current from the RDI fuse flows to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND, and the current from the CDS fuse flows to FAN NO.3 relay (Point side) to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 5 to GROUND.

As the current flowing in parallel for motors as above, the motors rotate at high speed.

When the engine coolant is too high, the current through the FAN RLY fuse flows to the FAN NO.1 and NO.2 relay (Coil side) to TERMINAL (A) 14 of the engine control module to GROUND, and the current through the FAN RLY fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL 1 of the diode to TERMINAL 2 to TERMINAL (A) 14 of the engine control module to GROUND. As a result, FAN NO.1, NO.2 and NO.3 relay is turned on. At the same time, the current from the RDI fuse flows to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND, and the current from the CDS fuse flows to FAN NO.3 relay (Point side) to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 5 to GROUND.

As the current flowing in parallel for motors as above, the motors rotate at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	38 (*1)	D2		40 (*2)	R1
	40 (*2)	E6	A	42	
A38	42	E7	B	42	W3
A40	B	E8	C	42	W4
D1	38 (*1)	P2		39 (*1)	
	40 (*2)			41 (*2)	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F		
1G		
1H		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
EA2	48 (*1)	
	49 (*2)	
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Radiator Fan and Condenser Fan

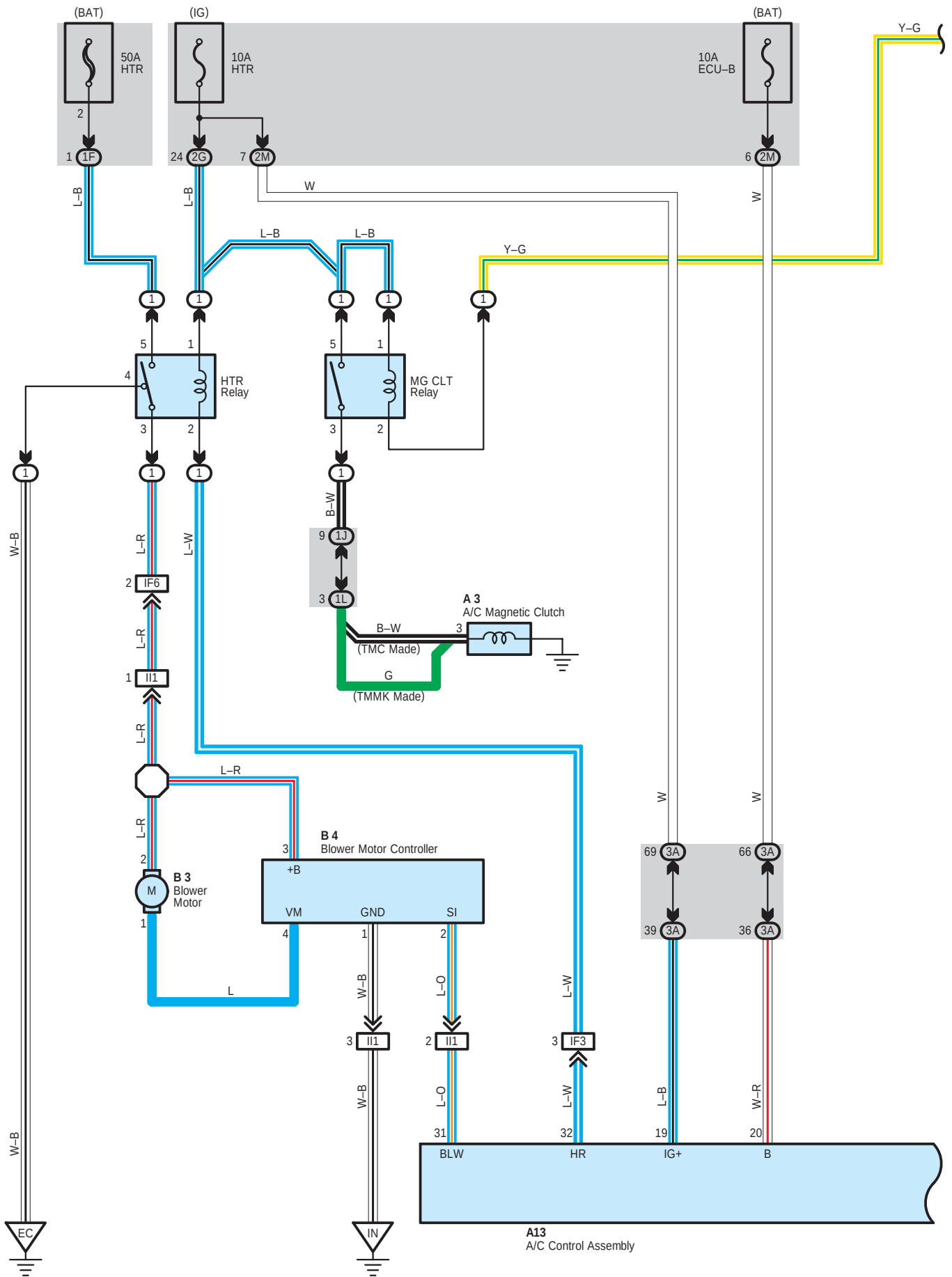


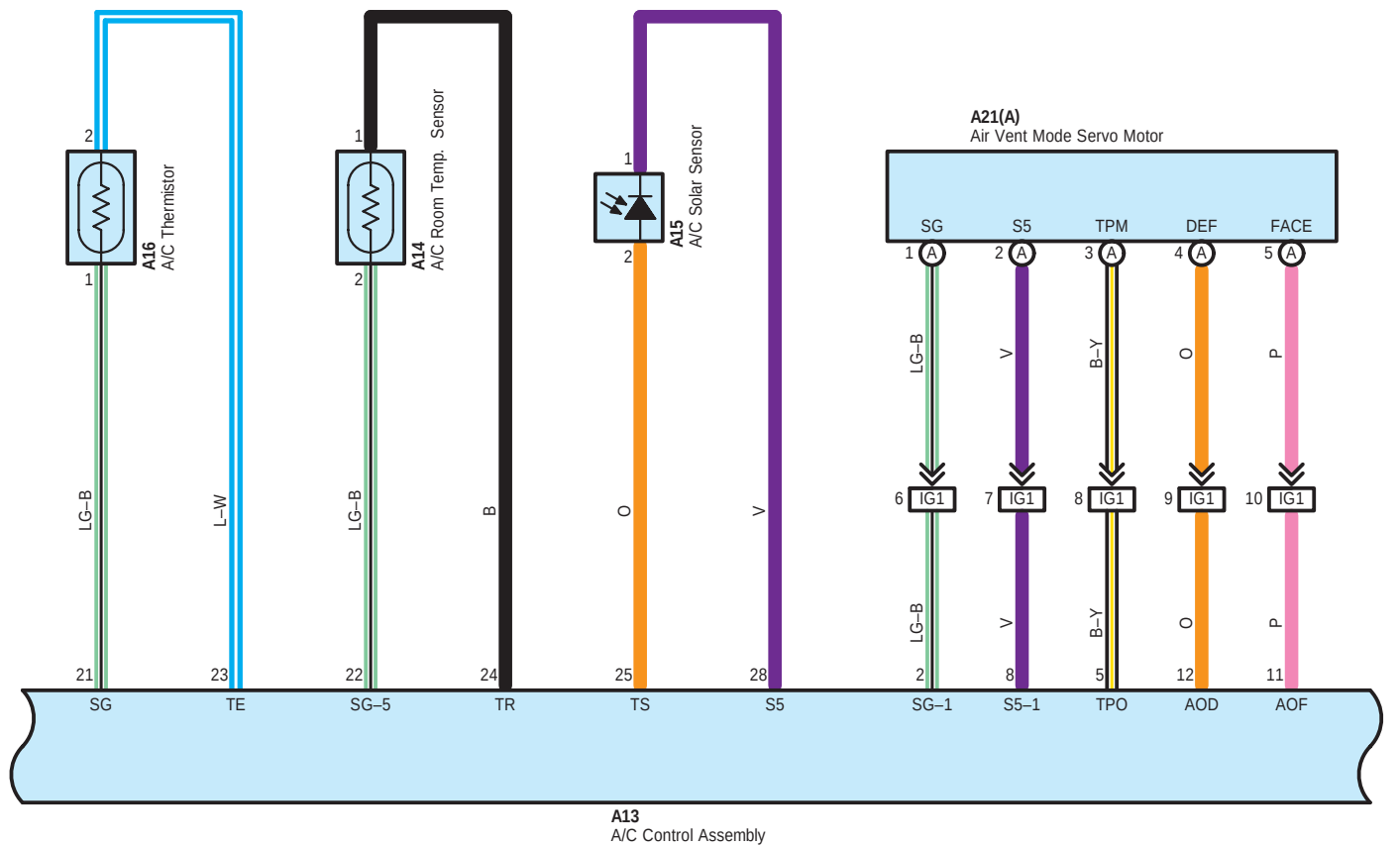
: Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
ED	48 (*1)	
	49 (*2)	

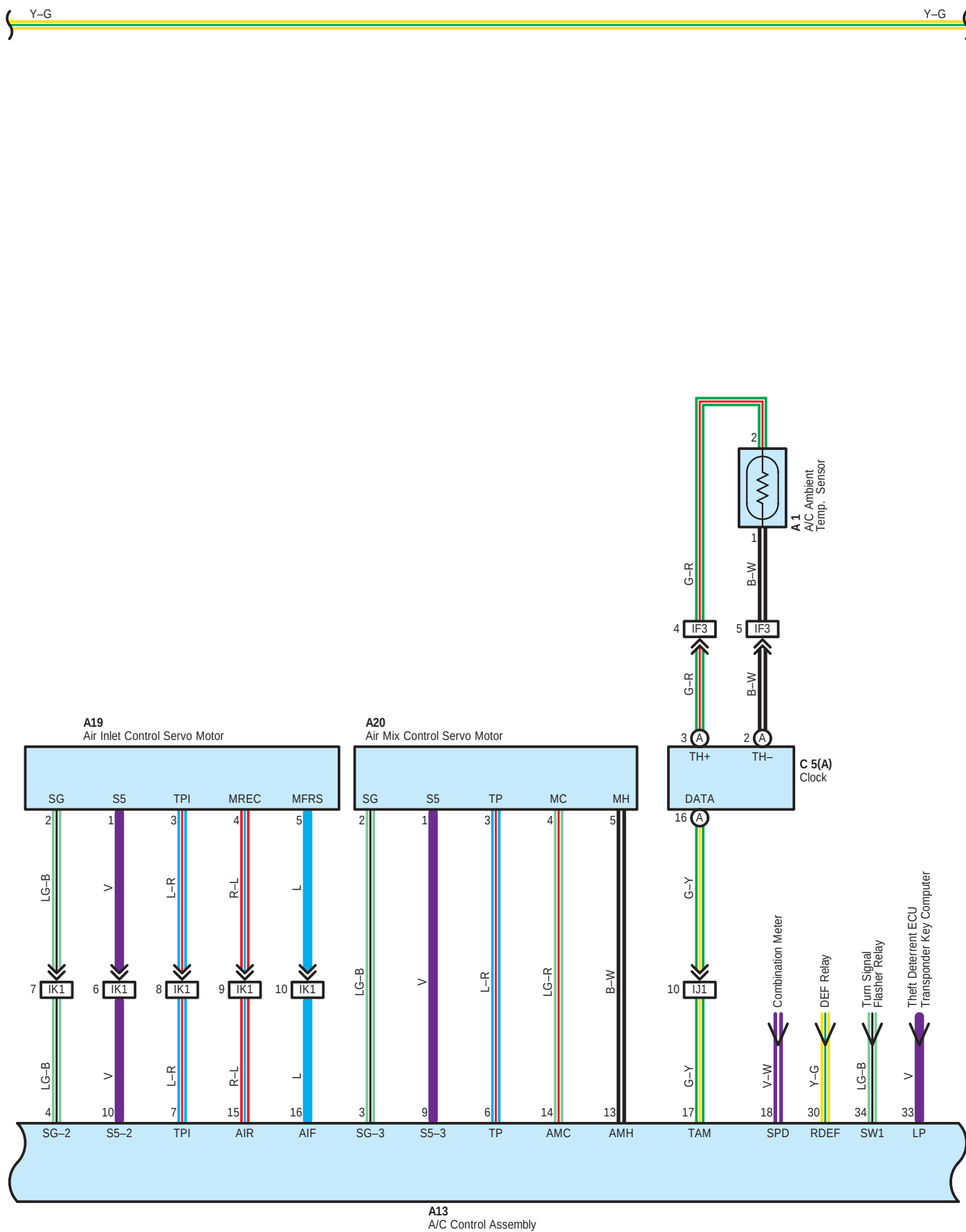
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

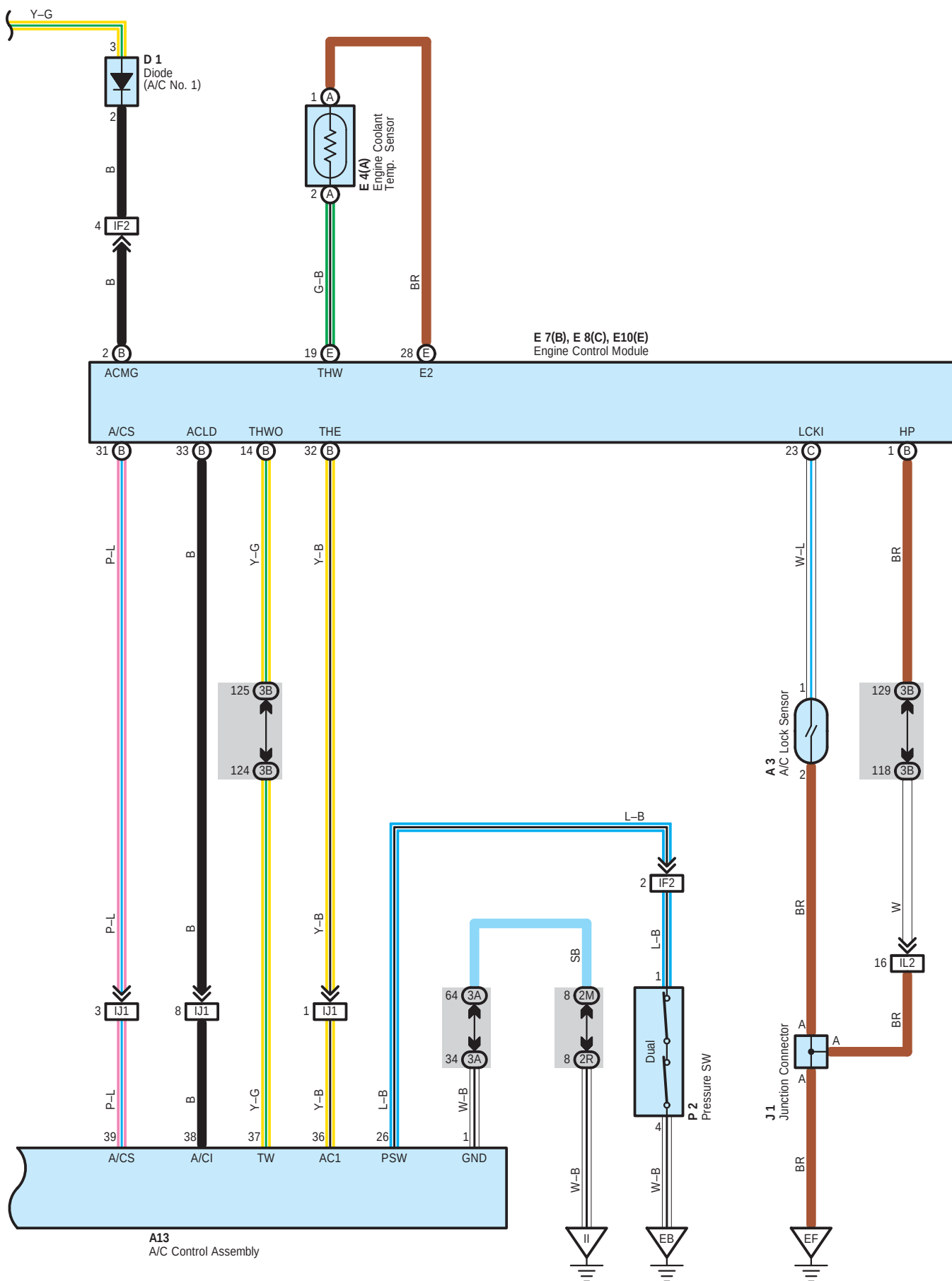
Automatic Air Conditioning for 1MZ-FE





Automatic Air Conditioning for 1MZ-FE





Automatic Air Conditioning for 1MZ-FE

System Outline

1. Heater Blower Operation

Manual operation

When the blower speed is set to a certain level using the blower control SW, the A/C control assembly sends the signals to the blower control to control the blower motor speed.

Auto operation

When the auto SW is turned on, the A/C control assembly sends the signals from various sensors and temperature SW to the blower control to automatically control the blower motor speed.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is set to RECIRC, the motor in the air inlet control servo motor starts rotating to move the damper toward the RECIRC side. Since the damper position is detected by the TERMINAL TPI of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to FRESH, the motor in the air inlet control servo motor starts rotating to move the damper toward the FRESH side. Since the damper position is detected by the TERMINAL TPI of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position.

3. Air Vent Mode Control Servo Motor Control

When the mode select SW is pushed, the ECU in the A/C control assembly activates the air vent mode servo motor. This causes the servo motor to rotate to the position (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF) selected using the mode select SW, and moves the film damper.

4. Air Mix Control Servo Motor Control

When the temperature control SW is pressed, the ECU in the A/C control assembly sends a signal to the air mix control servo motor. This signal drives the motor to reach the temperature set by the temperature control SW, and moves the film damper.

5. Air Conditioning Operation

The A/C control assembly receives various signals, I.E., the engine RPM from the engine control module, outside air temperature signal from the A/C ambient temp. sensor, coolant temperature from the engine control module and the lock signal from the A/C compressor, etc.

When the engine is started and the A/C SW (A/C control assembly) is on, a signal is input to the A/C control assembly.

As a result, the ground circuit in A/C control assembly is closed and current flows from HTR (10A) fuse to TERMINAL 1 of the MG CLT relay to TERMINAL 3 of the diode to TERMINAL ACMG of the engine control module to TERMINAL HP to GROUND, turning the MG CLT relay on, so that the magnetic clutch is on and the A/C compressor operates.

At the same time, the engine control module detects the magnetic clutch is on and the A/C compressor operates.

If the A/C control assembly detects the following conditions, it stops the air conditioning:

- * Evaporator outlet air is too low.
- * There is a marked difference between the compressor speed and the engine speed.
- * The refrigerant pressure is abnormally high or abnormally low.
- * The engine speed is too low.
- * Rapid acceleration occurs.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	38 (*1)	A20	42	E7	B 42
A3	38 (*1)	A21	A 42	E8	C 42
A13	42	B3	42	E10	E 42
A14	42	B4	42	J1	43
A15	42	C5	A 42	P2	39 (*1)
A16	42	D1	38 (*1)		
A19	42	E4	A 38 (*1)		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

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

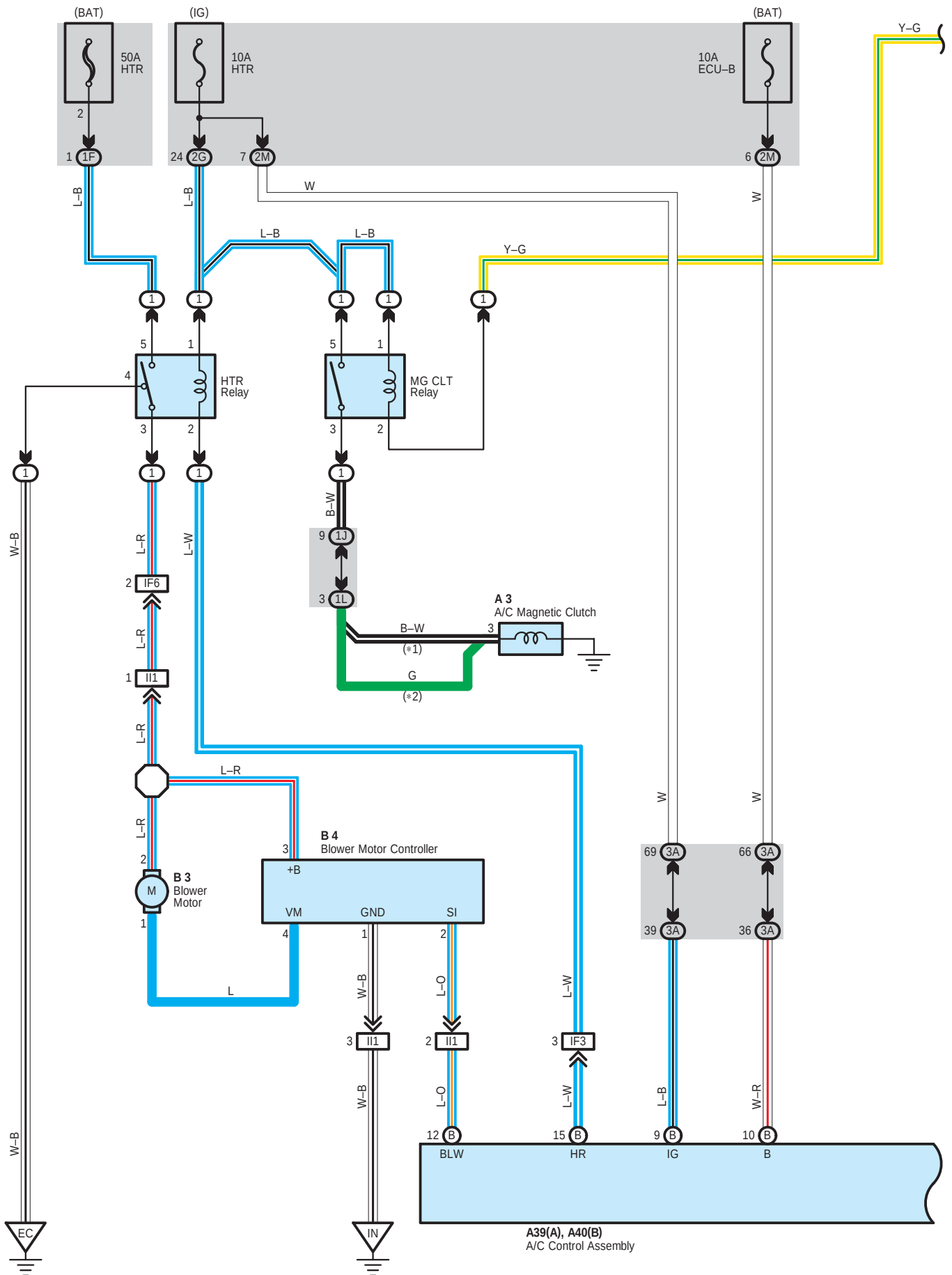
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II1	51	Instrument Panel Wire and Instrument Panel No.3 Wire (Behind the Glove Box)
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IK1	51	Instrument Panel Wire and Cowl No.2 Wire (Behind the Glove Box)
IL2	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

**: Ground Points**

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
EC	48 (*1)	Left Fender
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
IN	50	Instrument Panel Reinforcement RH

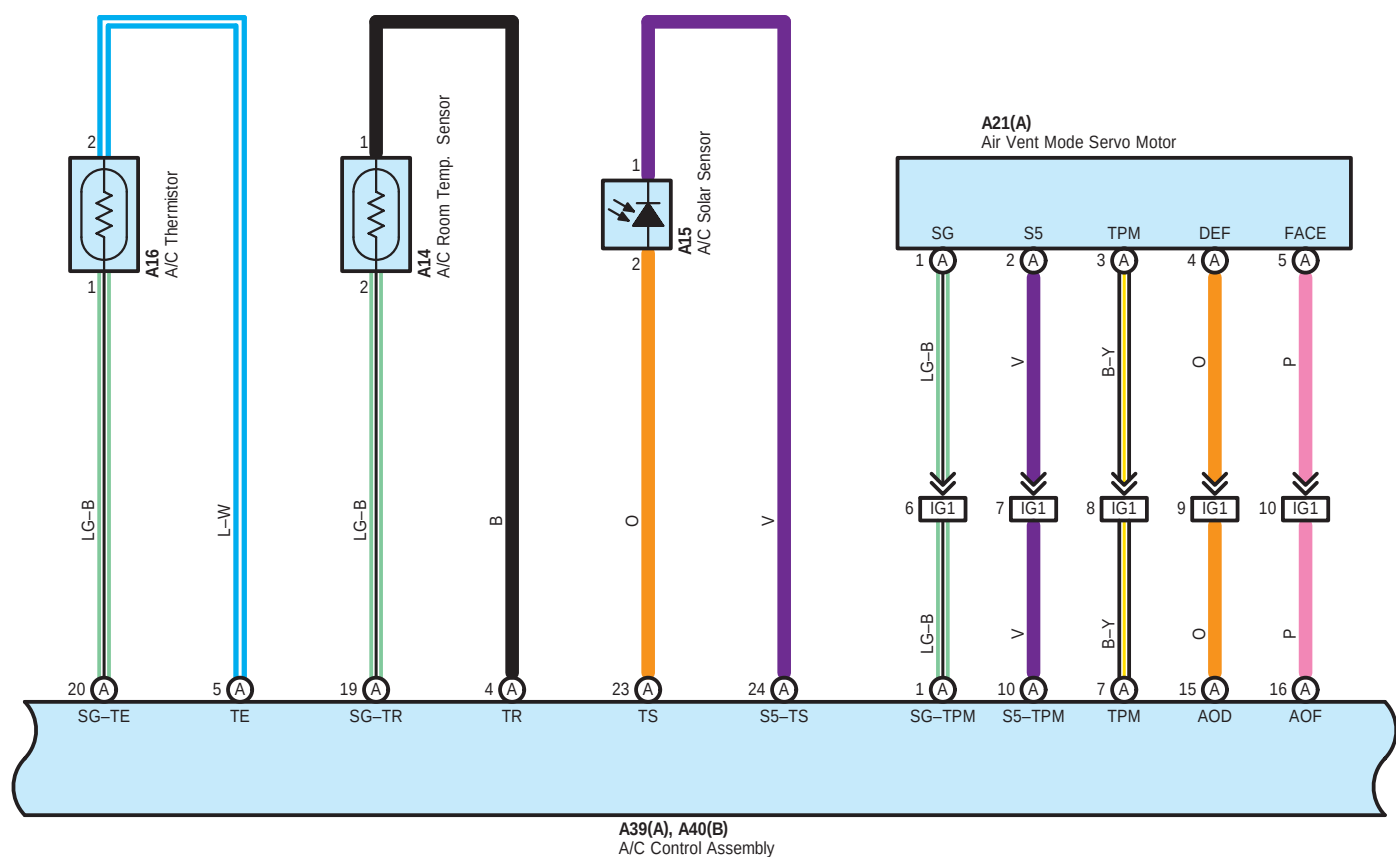
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Automatic Air Conditioning for 2AZ-FE



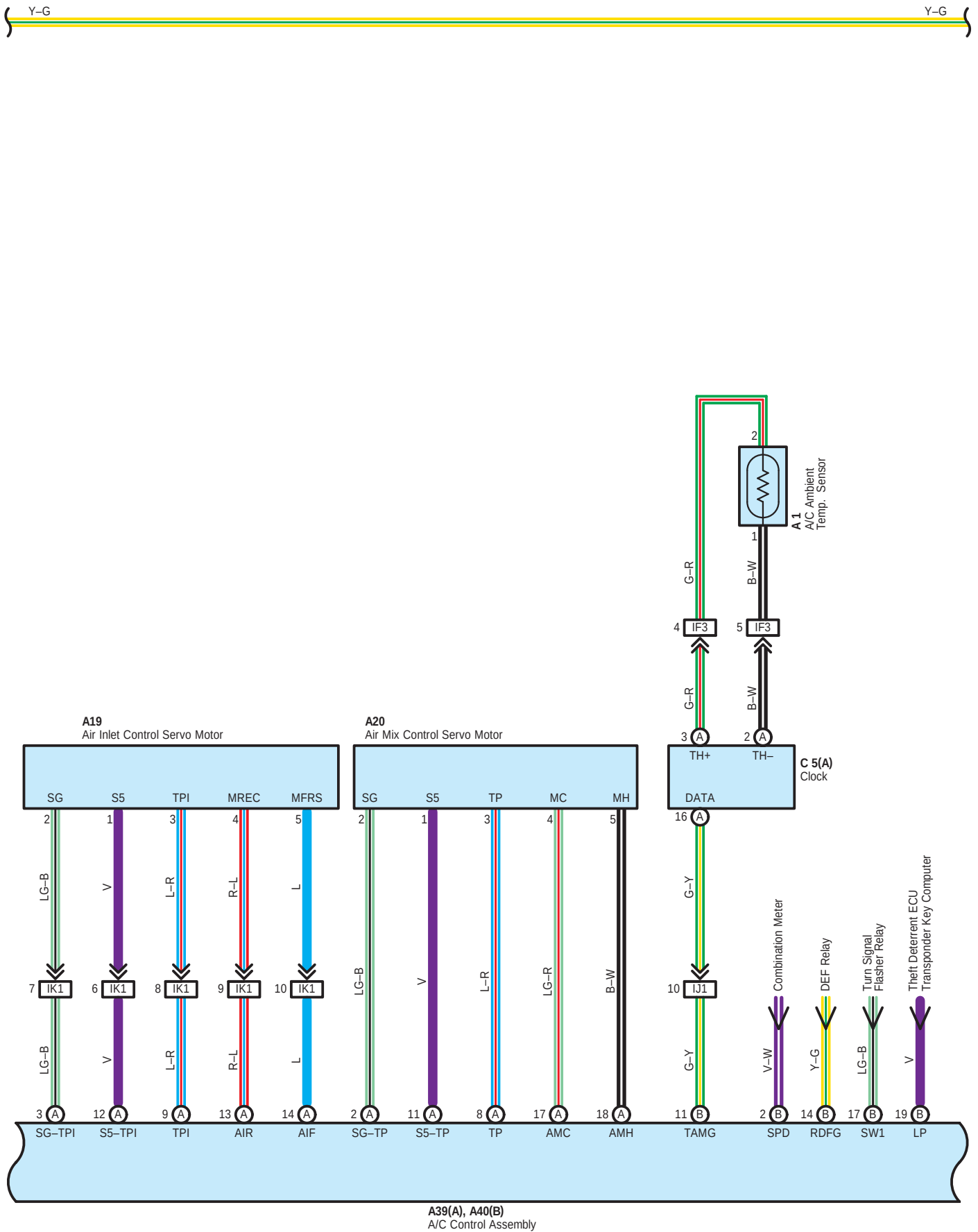


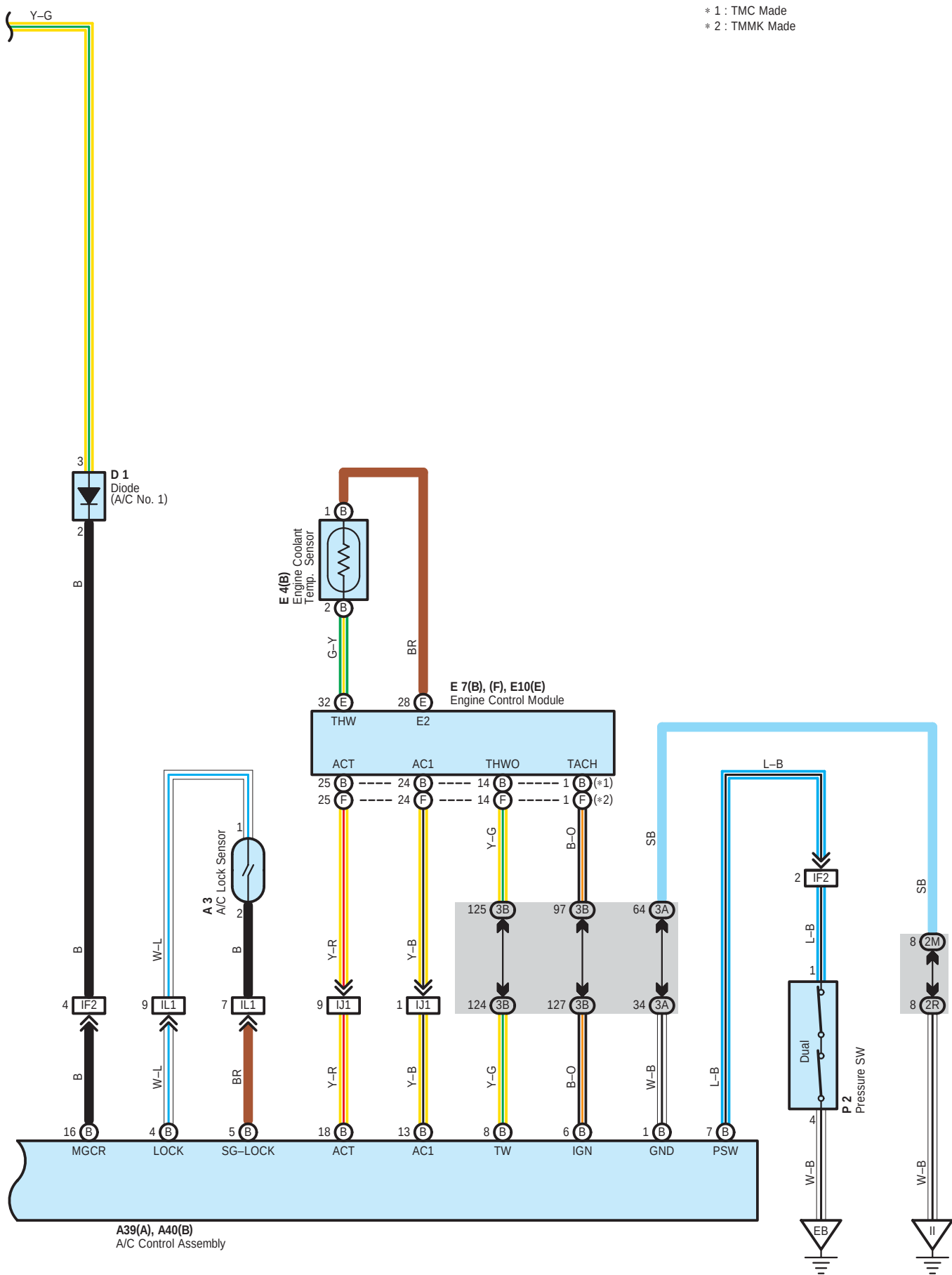
* 1 : TMC Made
* 2 : TMMK Made



A39(A), A40(B)
A/C Control Assembly

Automatic Air Conditioning for 2AZ-FE





Automatic Air Conditioning for 2AZ-FE

System Outline

1. Heater Blower Operation

Manual operation

When the blower speed is set to a certain level using the blower control SW, the A/C control assembly sends the signals to the blower control to control the blower motor speed.

Auto operation

When the auto SW is turned on, the A/C control assembly sends the signals from various sensors and temperature SW to the blower control to automatically control the blower motor speed.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is set to RECIRC, the motor in the air inlet control servo motor starts rotating to move the damper toward the RECIRC side. Since the damper position is detected by the TERMINAL TPI of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to FRESH, the motor in the air inlet control servo motor starts rotating to move the damper toward the FRESH side. Since the damper position is detected by the TERMINAL TPI of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position.

3. Air Vent Mode Control Servo Motor Control

When the mode select SW is pushed, the ECU in the A/C control assembly activates the air vent mode servo motor. This causes the servo motor to rotate to the position (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF) selected using the mode select SW, and moves the film damper.

4. Air Mix Control Servo Motor Control

When the temperature control SW is pressed, the ECU in the A/C control assembly sends a signal to the air mix control servo motor. This signal drives the motor to reach the temperature set by the temperature control SW, and moves the film damper.

5. Air Conditioning Operation

The A/C control assembly receives various signals, I.E., the engine RPM from the engine control module, outside air temperature signal from the A/C ambient temp. sensor, coolant temperature from the engine control module and the lock signal from the A/C compressor, etc.

When the engine is started and the A/C SW (A/C control assembly) is on, a signal is input to the A/C control assembly.

As a result, the ground circuit in A/C control assembly is closed and current flows from HTR (10A) fuse to TERMINAL 1 of the MG CLT relay to TERMINAL 3 of the diode to TERMINAL MGCR of the A/C control assembly to TERMINAL GND to GROUND, turning the MG CLT relay on, so that the magnetic clutch is on and the A/C compressor operates.

At the same time, the engine control module detects the magnetic clutch is on and the A/C compressor operates.

If the A/C control assembly detects the following conditions, it stops the air conditioning:

- * Evaporator outlet air is too low.
- * There is a marked difference between the compressor speed and the engine speed.
- * The refrigerant pressure is abnormally high or abnormally low.
- * The engine speed is too low.
- * Rapid acceleration occurs.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	40 (*2)	A21	A 42	E4	B 40 (*2)
A3	40 (*2)	A39	A 42	E7	B 42
A14	42	A40	B 42		F 42
A15	42	B3	42	E10	E 42
A16	42	B4	42	P2	41 (*2)
A19	42	C5	A 42		
A20	42	D1	40 (*2)		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

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

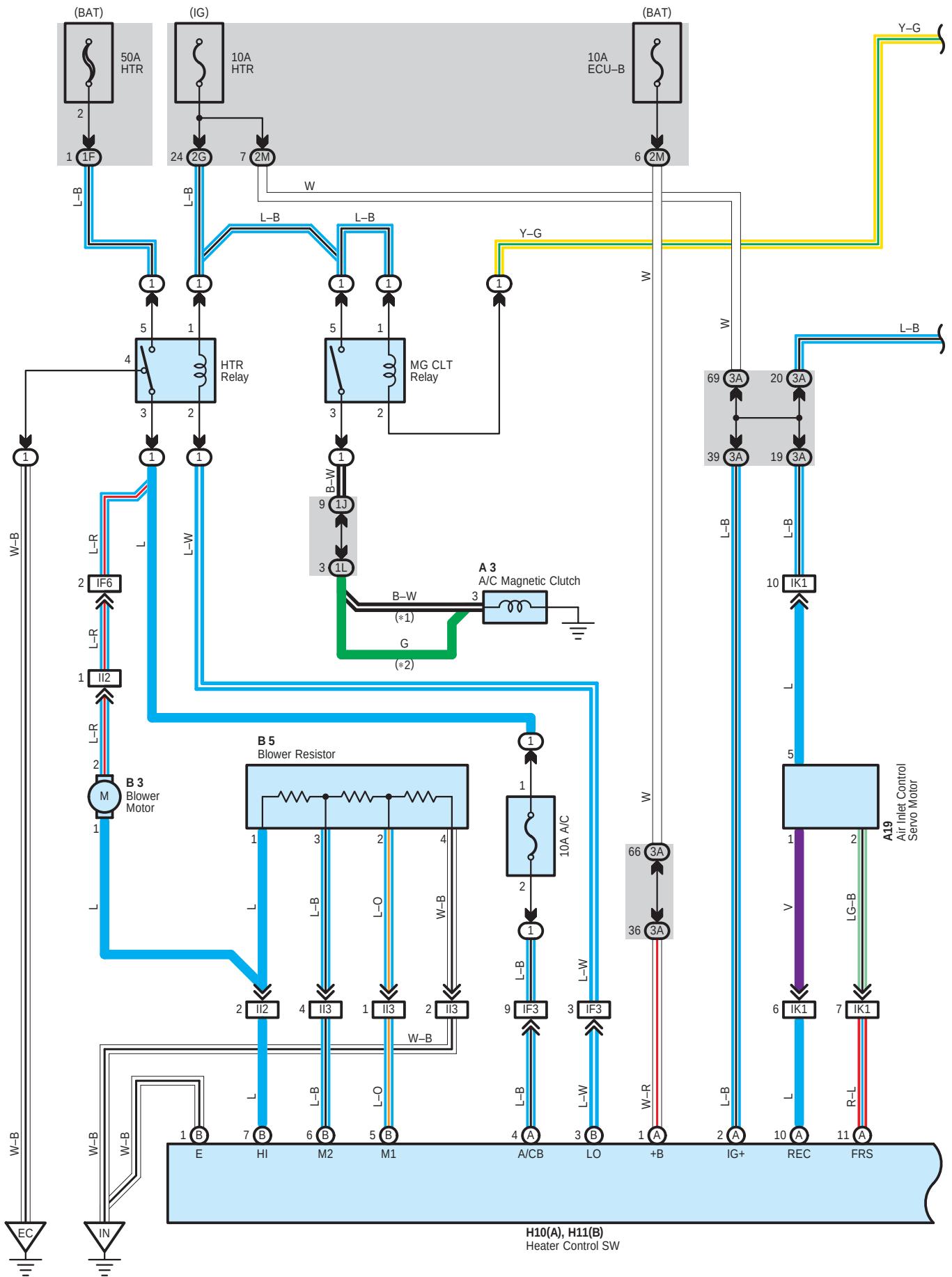
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II1	51	Instrument Panel Wire and Instrument Panel No.3 Wire (Behind the Glove Box)
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IK1	51	Instrument Panel Wire and Cowl No.2 Wire (Behind the Glove Box)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

**: Ground Points**

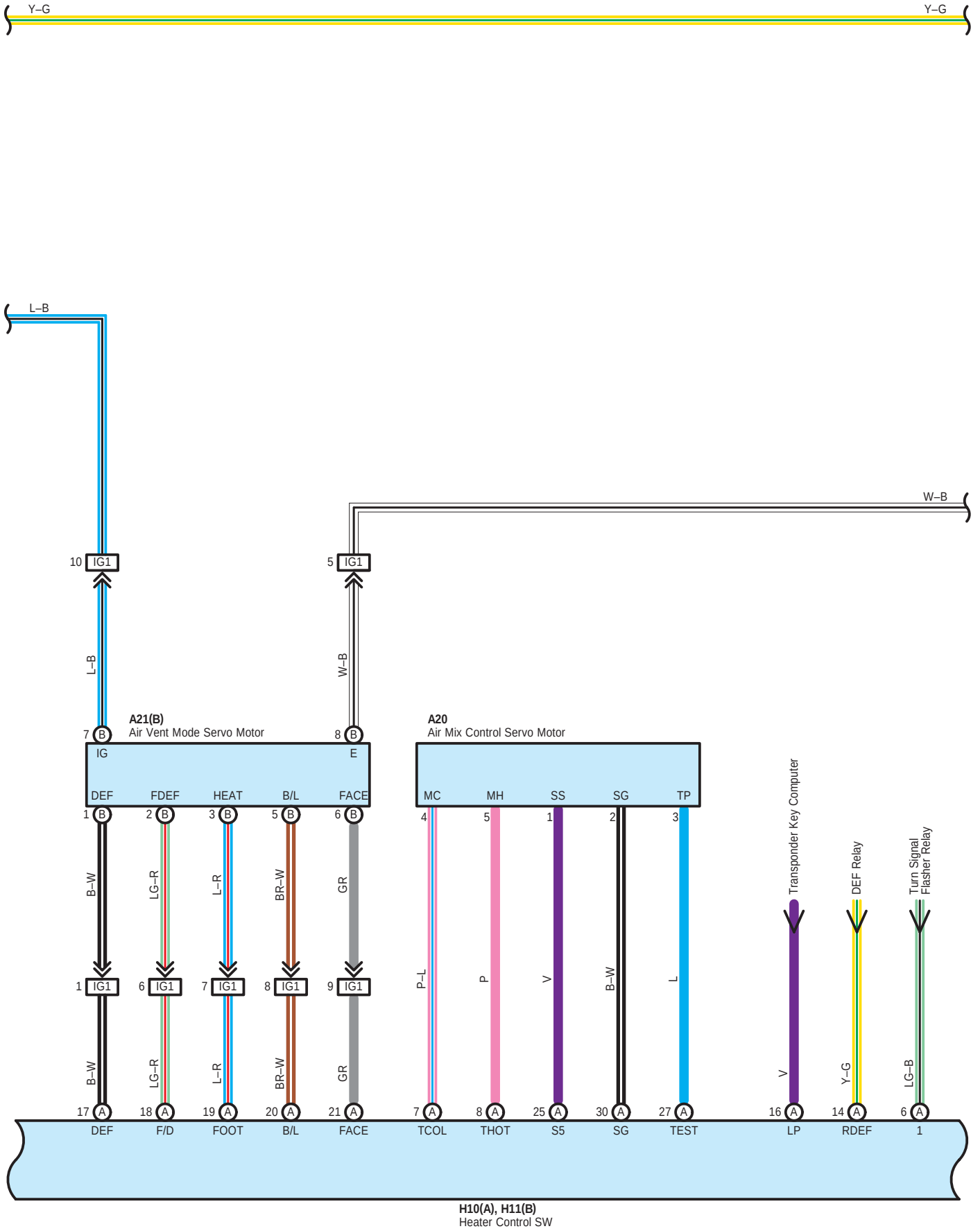
Code	See Page	Ground Points Location
EB	49 (*2)	Right Fender
EC	49 (*2)	Left Fender
II	50	Cowl Side Panel LH
IN	50	Instrument Panel Reinforcement RH

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

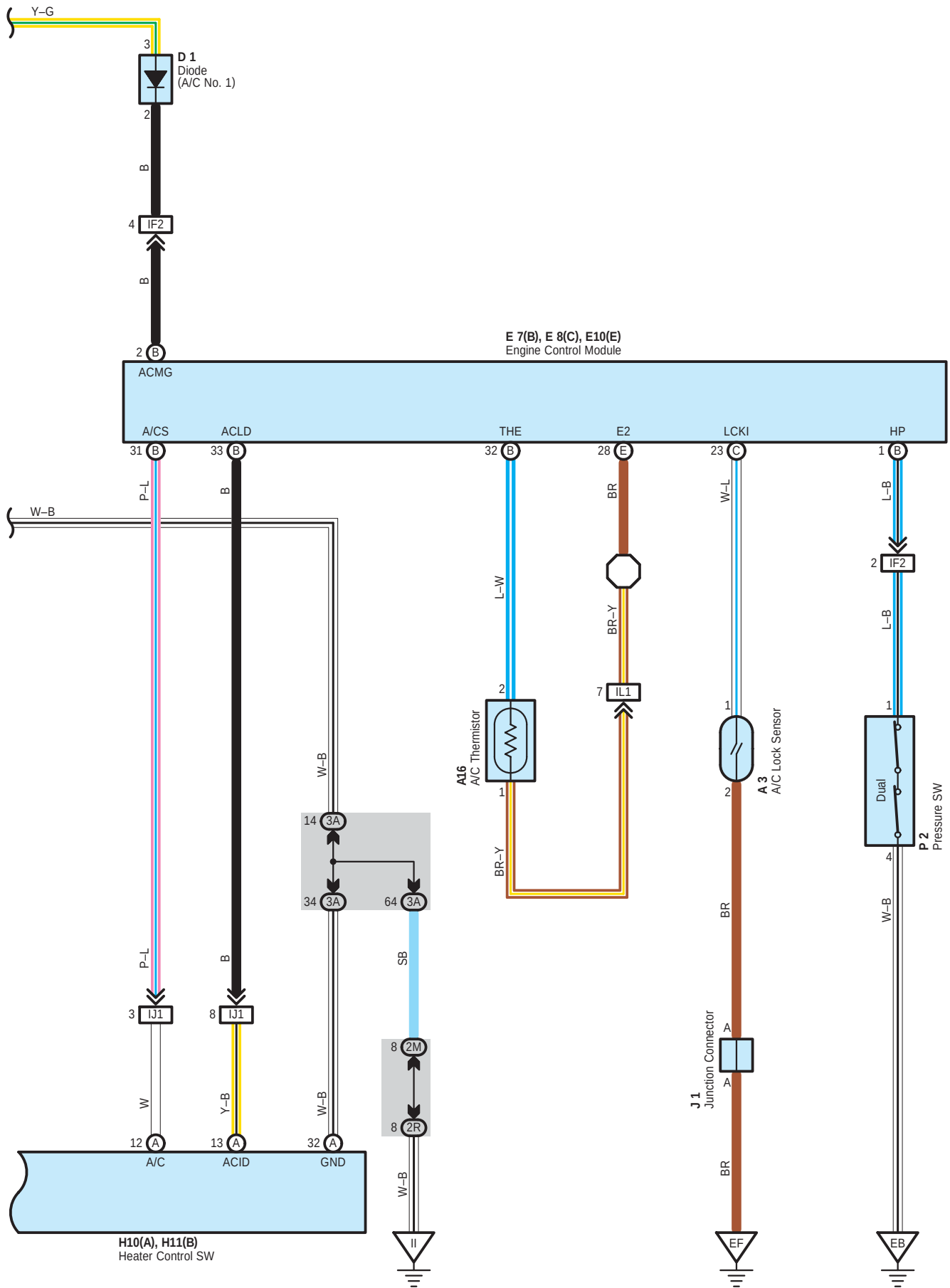
Manual Air Conditioning for 1MZ-FE and 3MZ-FE



* 1 : TMC Made
 * 2 : TMMK Made



Manual Air Conditioning for 1MZ-FE and 3MZ-FE



System Outline

1. Heater Blower Motor Operation

* Low speed operation

When the heater control SW is moved to LO position, current flows to TERMINAL LO of the heater control SW to GROUND, activating the HTR relay. This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 4 to GROUND, causing the blower motor to rotate at low speed.

* Medium speed operation (Operation at M1, M2)

When the blower SW is moved to M1 position, current flows to TERMINAL LO of the heater control SW to GROUND, turning the HTR relay to switch on. This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL (B) 5 of the heater control SW to GROUND. At this time, the blower resistance of the blower resistor is less than at low speed, so the blower motor rotates at medium low speed.

When the blower SW is moved to M2 position, current flows through the motor flows from TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL (B) 6 of the heater control SW to GROUND. At this time, resistance of the blower resistor is less than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation

When the blower SW is moved to HIGH position, current flows to TERMINAL LO of the heater control SW to GROUND, turning the HTR relay to switch on.

This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL (B) 7 of the heater control SW to GROUND, causing the blower motor to rotate at high speed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	38 (*1)	B3	42	E10	E 42
A16	42	B5	42	H10	A 43
A19	42	D1	38 (*1)	H11	B 43
A20	42	E7	B 42	J1	43
A21	B 42	E8	C 42	P2	39 (*1)

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Manual Air Conditioning for 1MZ-FE and 3MZ-FE



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II2	51	Instrument Panel Wire and Instrument Panel No.3 Wire (Behind the Glove Box)
II3		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IK1	51	Instrument Panel Wire and Cowl No.2 Wire (Behind the Glove Box)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

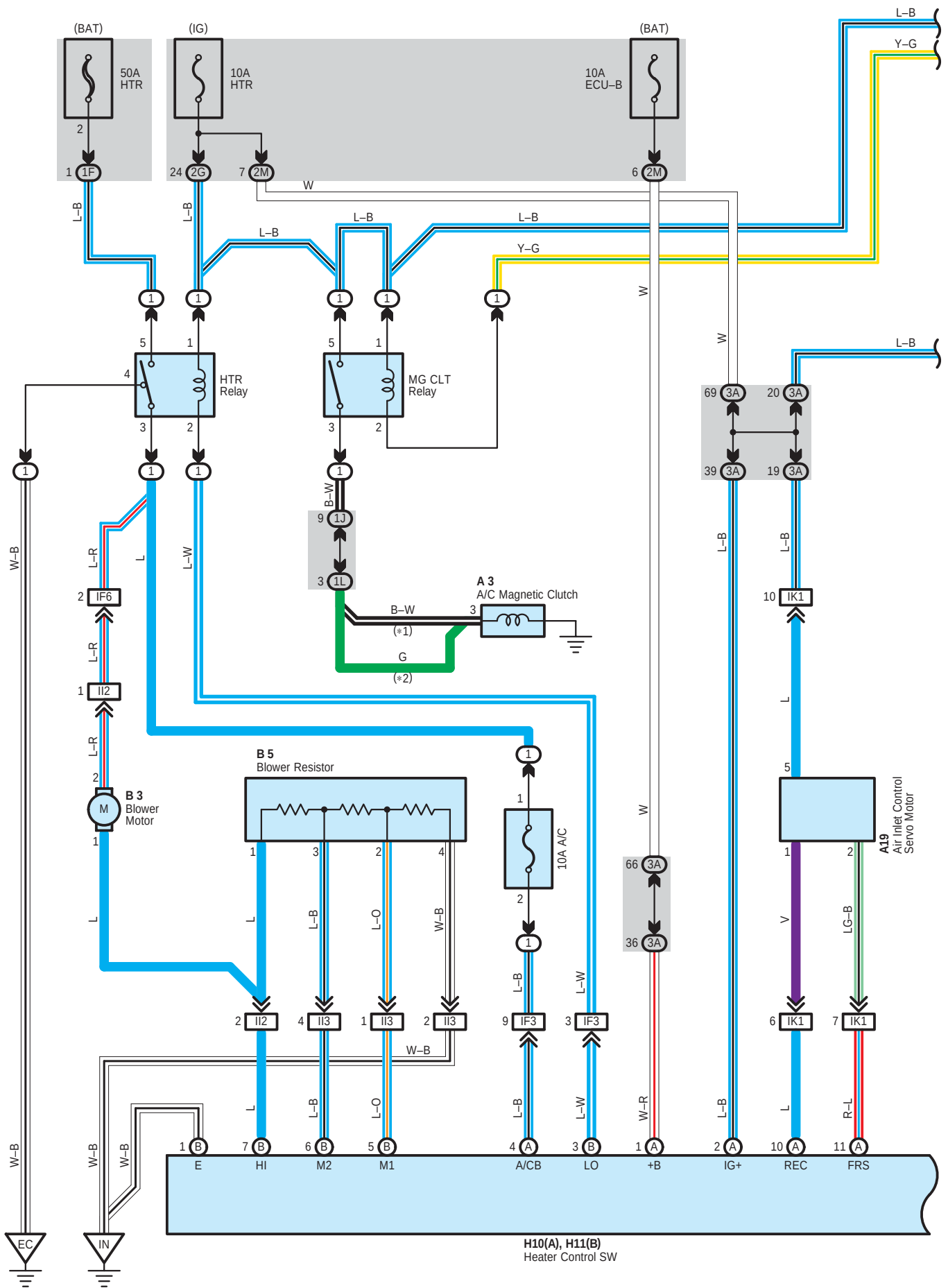


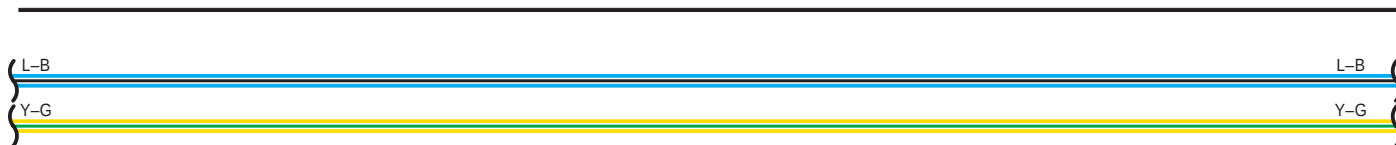
: Ground Points

Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
EC	48 (*1)	Left Fender
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
IN	50	Instrument Panel Reinforcement RH

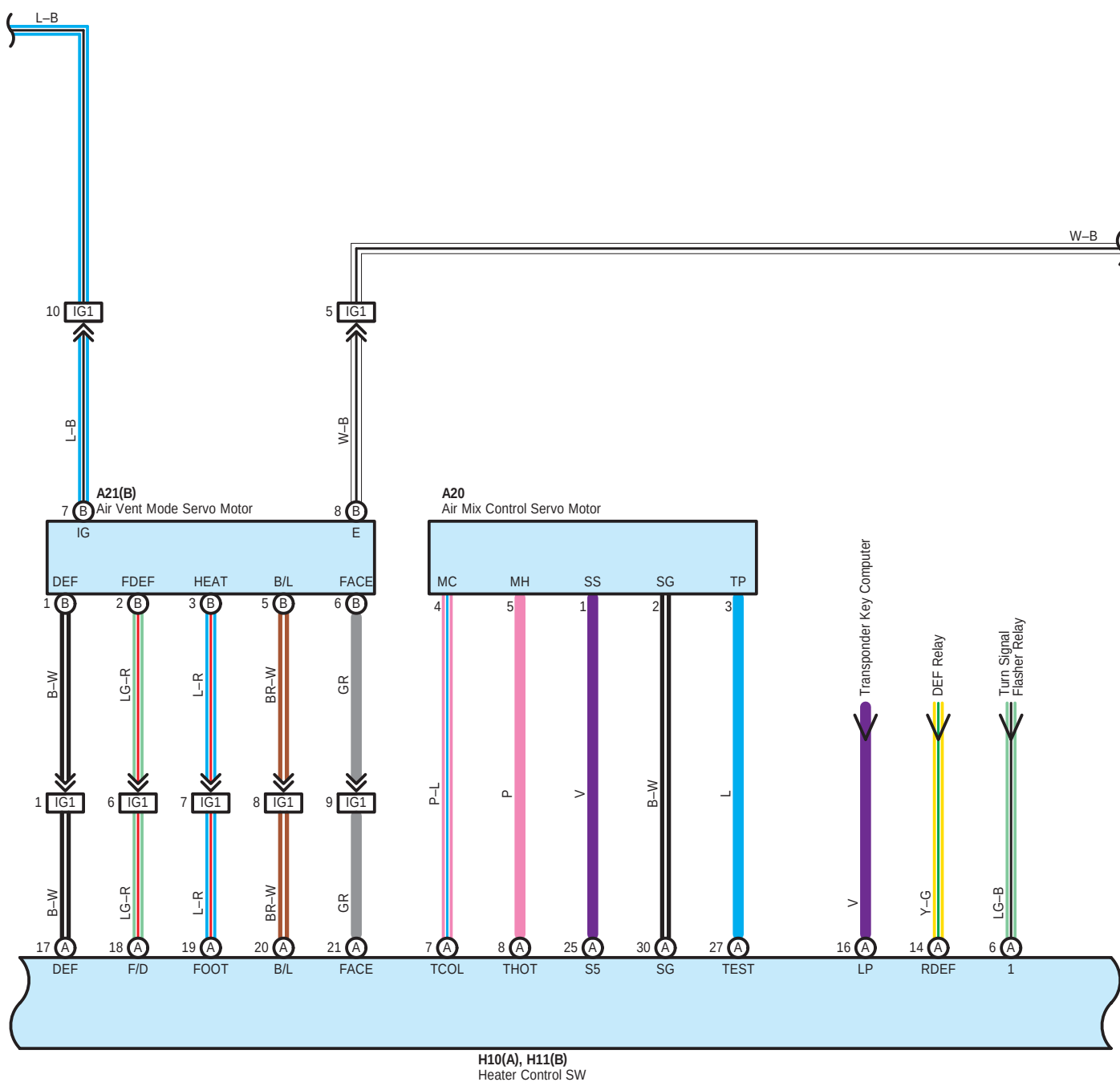
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Manual Air Conditioning for 2AZ-FE

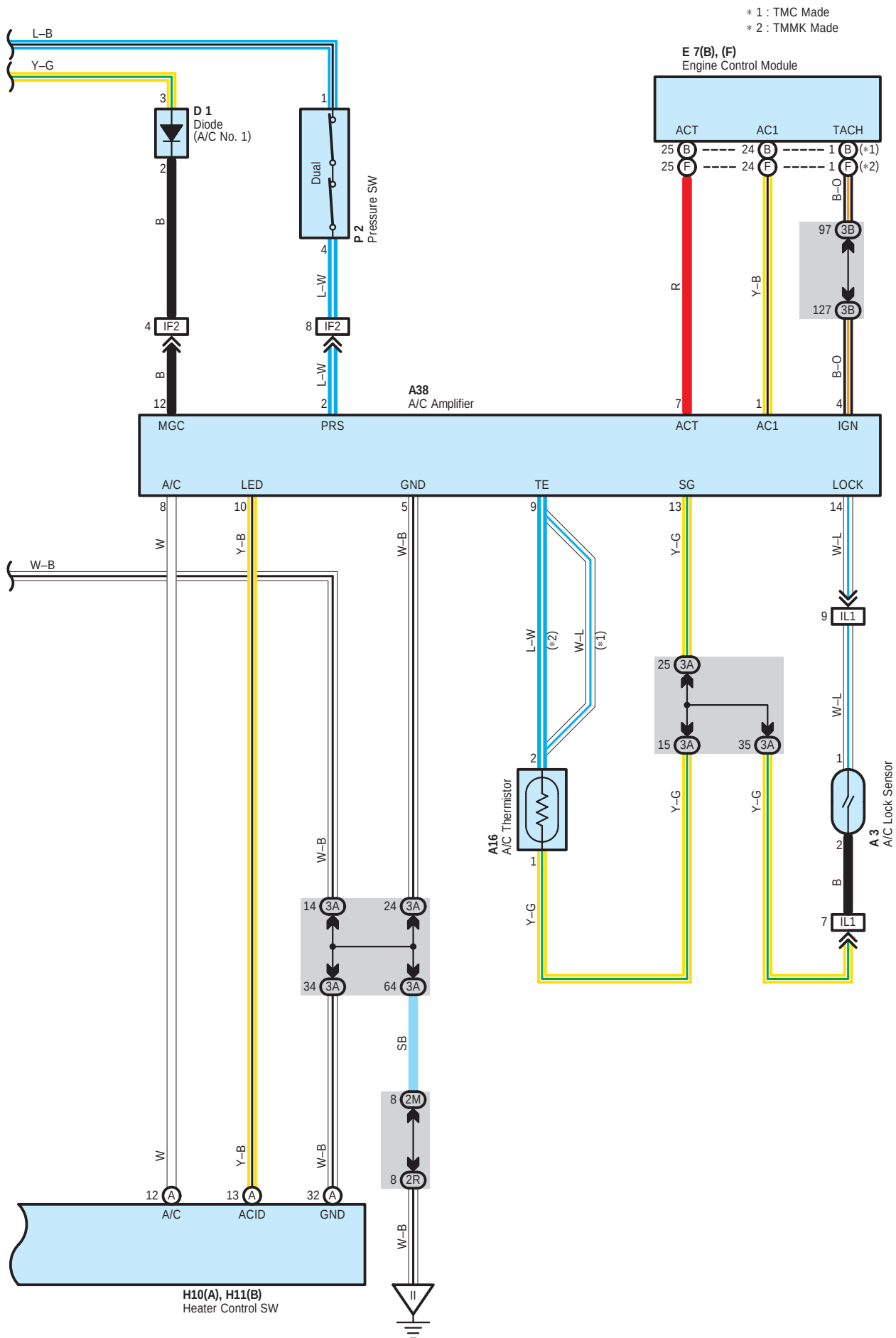




* 1 : TMC Made
 * 2 : TMMK Made



Manual Air Conditioning for 2AZ-FE



System Outline

1. Heater Blower Motor Operation

* Low speed operation

When the heater control SW is moved to LO position, current flows to TERMINAL LO of the heater control SW to GROUND, activating the HTR relay. This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 4 to GROUND, causing the blower motor to rotate at low speed.

* Medium speed operation (Operation at M1, M2)

When the blower SW is moved to M1 position, current flows to TERMINAL LO of the heater control SW to GROUND, turning the HTR relay to switch on. This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL (B) 5 of the heater control SW to GROUND. At this time, the blower resistance of the blower resistor is less than at low speed, so the blower motor rotates at medium low speed.

When the blower SW is moved to M2 position, current flows through the motor flows from TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL (B) 6 of the heater control SW to GROUND. At this time, resistance of the blower resistor is less than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation

When the blower SW is moved to HIGH position, current flows to TERMINAL LO of the heater control SW to GROUND, turning the HTR relay to switch on.

This causes the current to flow from the HTR (50A) fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL (B) 7 of the heater control SW to GROUND, causing the blower motor to rotate at high speed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	40 (*2)	A38	42	E7	F
A16	42	B3	42	H10	A
A19	42	B5	42	H11	B
A20	42	D1	40 (*2)	P2	41 (*2)
A21	B	E7	B		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Manual Air Conditioning for 2AZ-FE

: Connector Joining Wire Harness and Wire Harness

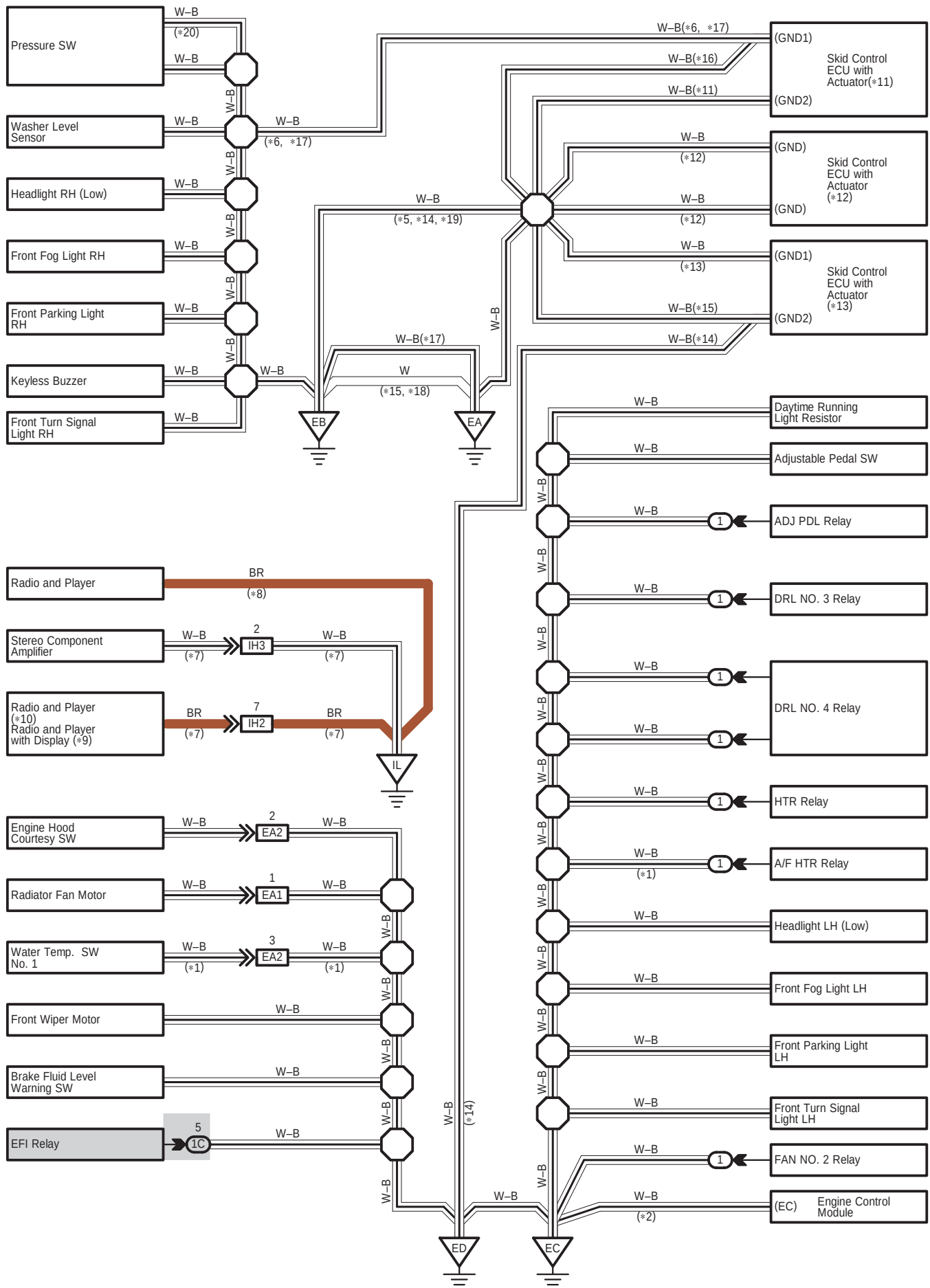
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II2	51	Instrument Panel Wire and Instrument Panel No.3 Wire (Behind the Glove Box)
II3		
IK1	51	Instrument Panel Wire and Cowl No.2 Wire (Behind the Glove Box)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

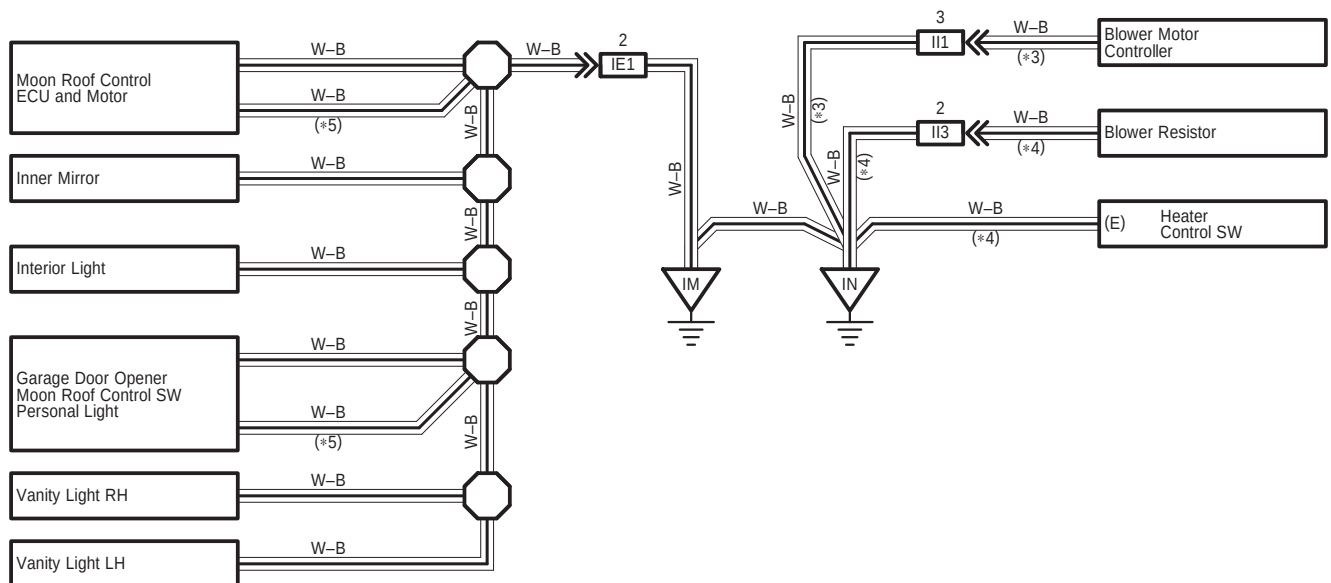
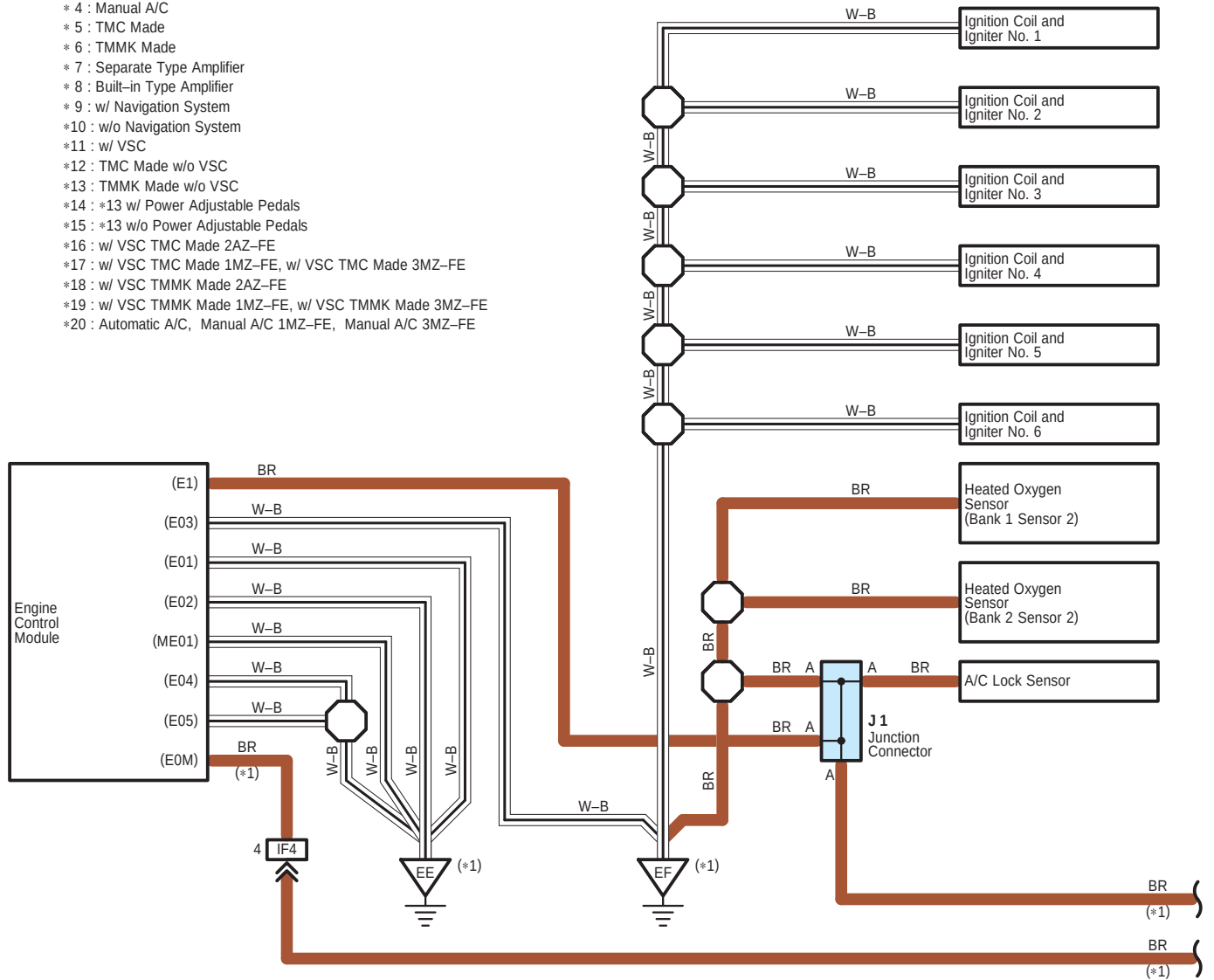
Code	See Page	Ground Points Location
EC	49 (*2)	Left Fender
II	50	Cowl Side Panel LH
IN	50	Instrument Panel Reinforcement RH

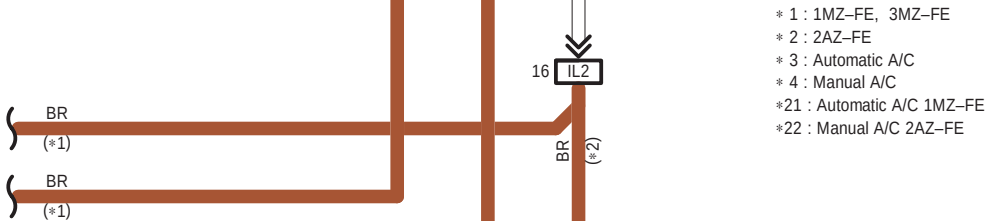
* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

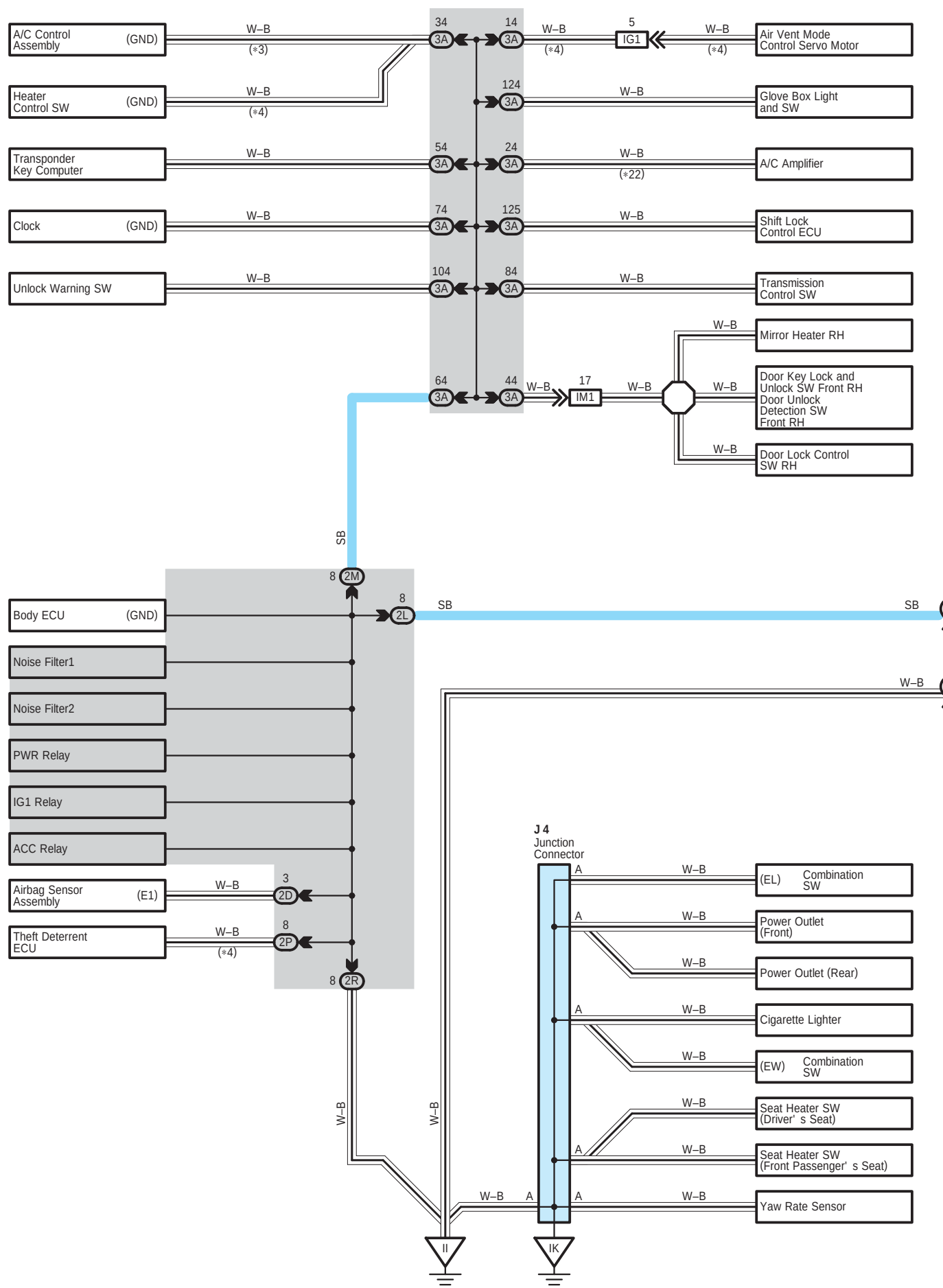
I GROUND POINT



- * 1 : 1MZ-FE, 3MZ-FE
- * 2 : 2AZ-FE
- * 3 : Automatic A/C
- * 4 : Manual A/C
- * 5 : TMC Made
- * 6 : TMMK Made
- * 7 : Separate Type Amplifier
- * 8 : Built-in Type Amplifier
- * 9 : w/ Navigation System
- * 10 : w/o Navigation System
- * 11 : w/ VSC
- * 12 : TMC Made w/o VSC
- * 13 : TMMK Made w/o VSC
- * 14 : *13 w/ Power Adjustable Pedals
- * 15 : *13 w/o Power Adjustable Pedals
- * 16 : w/ VSC TMC Made 2AZ-FE
- * 17 : w/ VSC TMC Made 1MZ-FE, w/ VSC TMC Made 3MZ-FE
- * 18 : w/ VSC TMMK Made 2AZ-FE
- * 19 : w/ VSC TMMK Made 1MZ-FE, w/ VSC TMMK Made 3MZ-FE
- * 20 : Automatic A/C, Manual A/C 1MZ-FE, Manual A/C 3MZ-FE

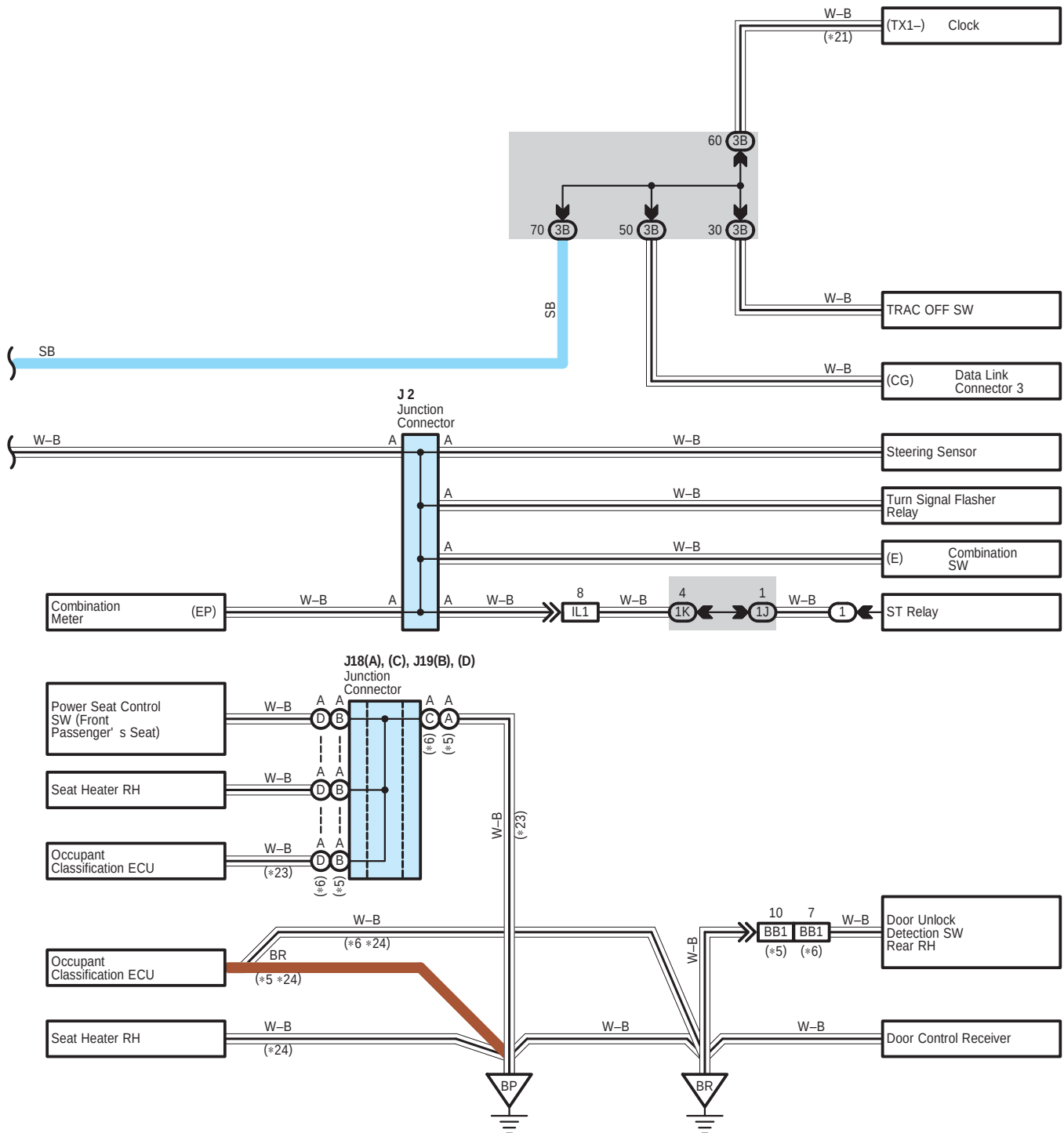


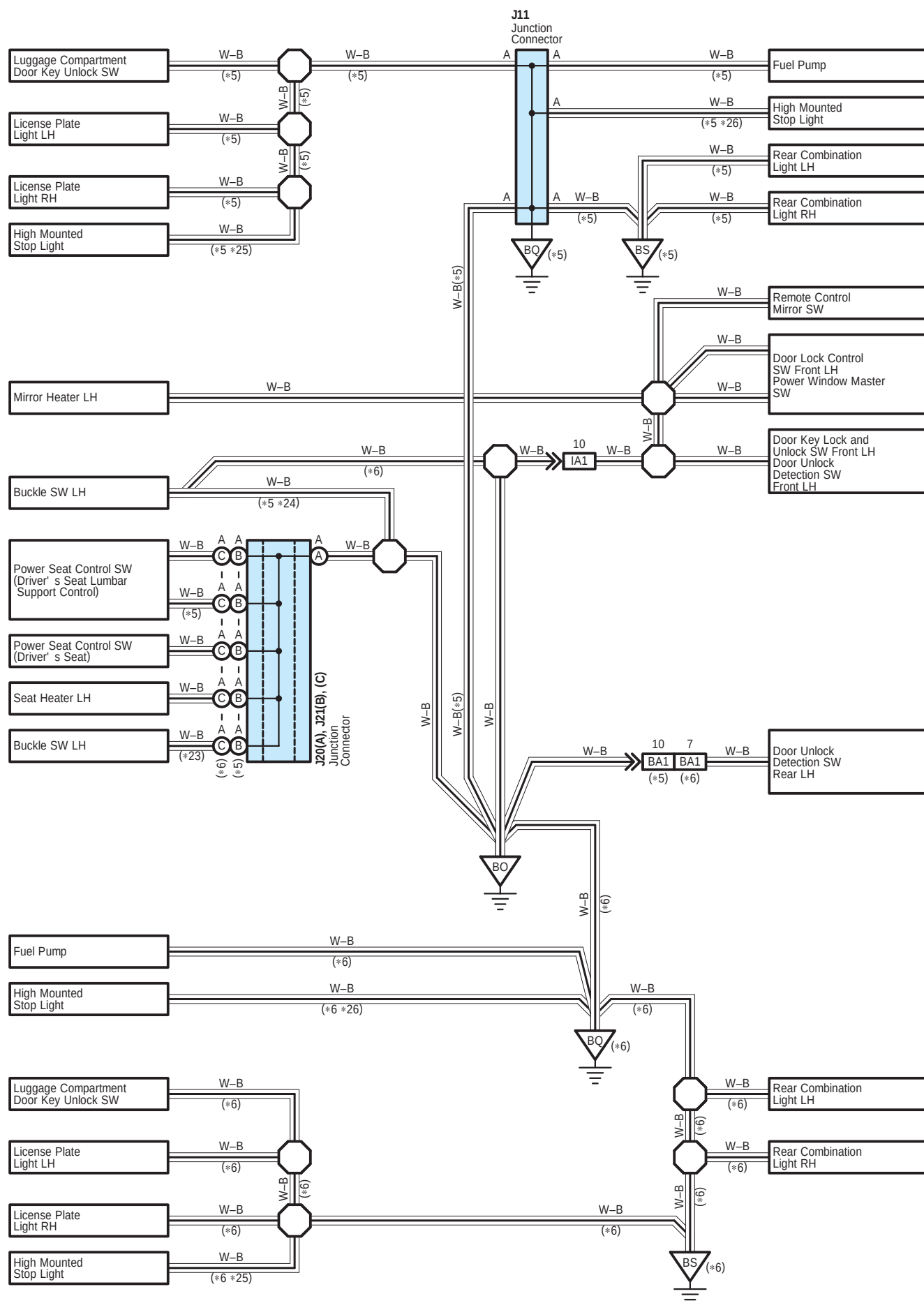




I GROUND POINT

- * 5 : TMC Made
- * 6 : TMMK Made
- *21 : Automatic A/C 1MZ-FE
- *23 : w/ Power Seat
- *24 : w/o Power Seat
- *25 : w/ Rear Spoiler
- *26 : w/o Rear Spoiler





I GROUND POINT

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J1	43	J18	C	46 (*3)	
J2	43	J19	B	46 (*3)	
J4	43		D	46 (*3)	
J11	44	J20	A	46 (*3)	
J18	A			47 (*4)	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1K	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2D		
2L	29	
2M		
2P		
2R		
3A	34	
3B		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
EA2	48 (*1)	
	49 (*2)	
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
IH2	50	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH3		
II1	51	Instrument Panel Wire and Instrument Panel No.3 Wire (Behind the Glove Box)
II3		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		
IM1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	52	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	52	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat



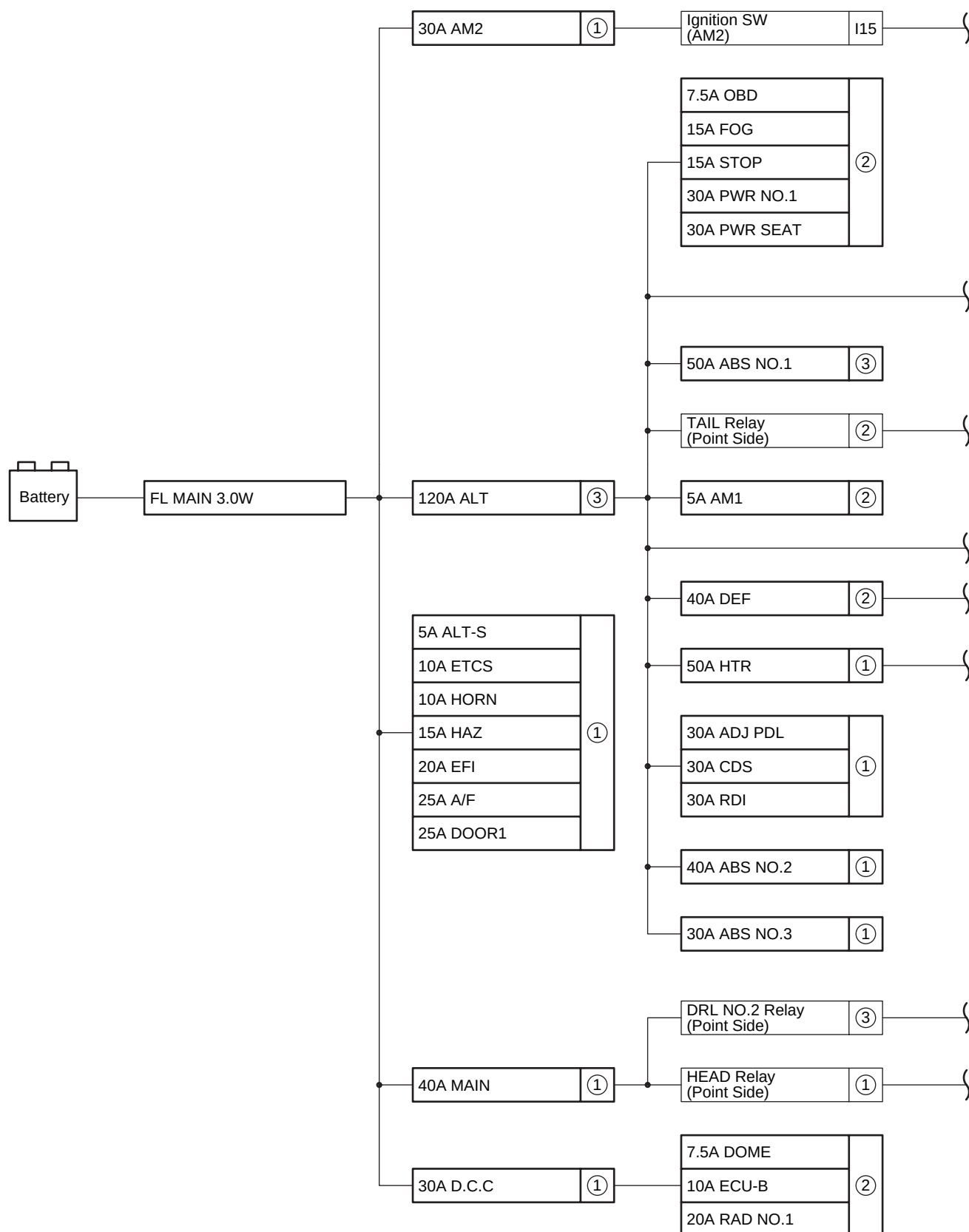
: Ground Points

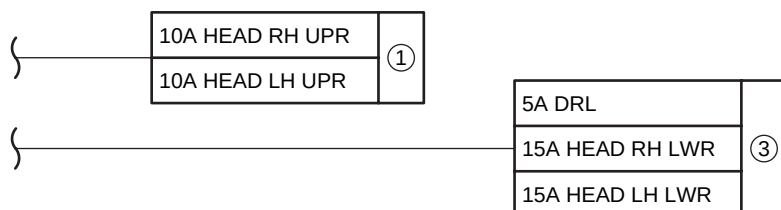
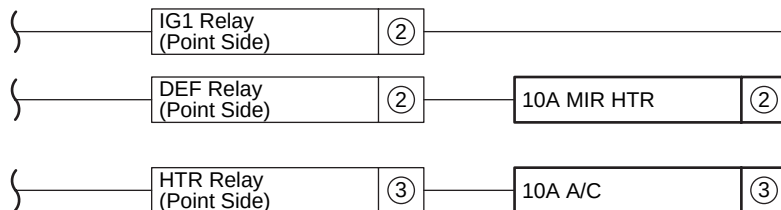
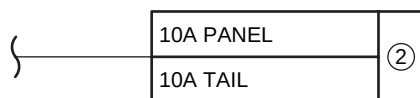
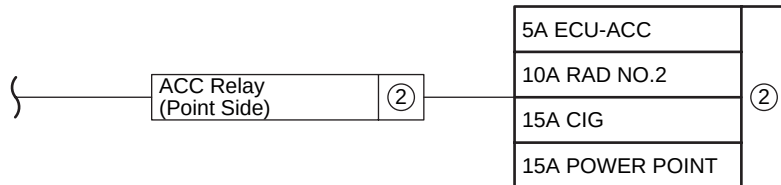
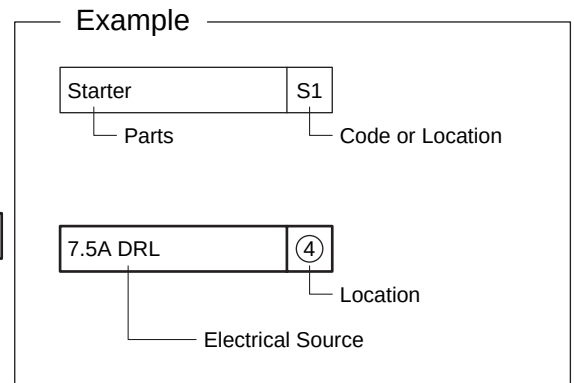
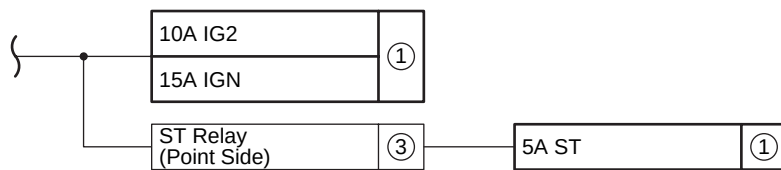
Code	See Page	Ground Points Location
EA	48 (*1)	Right Fender
	49 (*2)	
EB	48 (*1)	
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
ED	48 (*1)	
	49 (*2)	
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
IK		
IL	50	Instrument Panel Brace RH
IM	50	Instrument Panel Reinforcement RH
IN		
BO	52	Under the Driver's Seat
BP	52	Under the Front Passenger's Seat
BQ	52	Front Side of Rear Quarter Wheel House LH
BR	52	Front Side of Rear Quarter Wheel House RH
BS	52	Lower Back Panel Center

* 1 : 1MZ-FE, 3MZ-FE * 2 : 2AZ-FE * 3 : w/ Power Seat * 4 : w/o Power Seat

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.





(LOCATION)

- ① : Engine Room J/B (See Page 24)
- ② : Driver Side J/B (See Page 28)
- ③ : Engine Room R/B (See Page 22)

J POWER SOURCE (Current Flow Chart)

Engine Room J/B (See Page 24)

Fuse		System	Page
5A	ALT-S	Charging	68
5A	ST	Combination Meter	248
		Starting and ignition (1MZ-FE, 3MZ-FE)	60
		Starting and ignition (2AZ-FE)	64
10A	ETCS	Cruise Control (1MZ-FE, 3MZ-FE)	182
		Cruise Control (2AZ-FE)	188
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
10A	HEAD LH UPR	Headlight	114
		Multiplex Communication System (BEAN)	98
10A	HEAD RH UPR	Headlight	114
		Multiplex Communication System (BEAN)	98
10A	HORN	Horn	226
		Multiplex Communication System (BEAN)	98
		Theft Deterrent and Door Lock Control	142
10A	IG2	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
		Charging	68
		Combination Meter	248
		Cruise Control (1MZ-FE, 3MZ-FE)	182
		Cruise Control (2AZ-FE)	188
		Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	200
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Seat Belt Warning	214
		SRS	175
15A	HAZ	Turn Signal and Hazard Warning Light	132
15A	IGN	Clock	234
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Engine Immobiliser System	94
		Starting and ignition (1MZ-FE, 3MZ-FE)	60
		Starting and ignition (2AZ-FE)	64
20A	EFI	Cruise Control (1MZ-FE, 3MZ-FE)	182
		Cruise Control (2AZ-FE)	188
		Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	200
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82

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

Fuse		System	Page
25A	A/F	Engine Control (1MZ–FE, 3MZ–FE)	70
25A	DOOR1	Multiplex Communication System (BEAN)	98
		Theft Deterrent and Door Lock Control	142
		Wireless Door Lock Control	148
30A	ABS NO.3	ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
30A	ADJ PDL	Power Adjustable Pedals	232
30A	AM2	Charging	68
		Engine Control (1MZ–FE, 3MZ–FE)	70
		Engine Control (2AZ–FE)	82
		Starting and ignition (1MZ–FE, 3MZ–FE)	60
		Starting and ignition (2AZ–FE)	64
30A	CDS	Radiator Fan and Condenser Fan	254
30A	RDI	Radiator Fan and Condenser Fan	254
40A	ABS NO.2	ABS (w/o VSC TMC Made)	166
40A	MAIN	Automatic Light Control	120
		Combination Meter	248
		Fog Light	118
		Headlight	114
		Light Auto Turn Off System	122
		Multiplex Communication System (BEAN)	98
50A	HTR	Automatic Air Conditioning (1MZ–FE)	260
		Automatic Air Conditioning (2AZ–FE)	266
		Manual Air Conditioning (1MZ–FE, 3MZ–FE)	272
		Manual Air Conditioning (2AZ–FE)	278

Driver Side J/B (See Page 28)

Fuse		System	Page
5A	AM1	Electronically Controlled Transmission and A/T Indicator (1MZ–FE, 3MZ–FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	200
		Engine Control (1MZ–FE, 3MZ–FE)	70
		Engine Control (2AZ–FE)	82
		Starting and ignition (1MZ–FE, 3MZ–FE)	60
		Starting and ignition (2AZ–FE)	64
5A	ECU–ACC	Clock	234
		Combination Meter	248
		Multiplex Communication System (BEAN)	98
		Remote Control Mirror	218
7.5A	DOME	Clock	234
		Garage Door Opener	222
		Interior Light	124
		Multiplex Communication System (BEAN)	98
		Wireless Door Lock Control	148

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

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
7.5A	OBD	Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
10A	ECU-B	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
		Automatic Air Conditioning (1MZ-FE)	260
		Automatic Air Conditioning (2AZ-FE)	266
		Automatic Light Control	120
		Clock	234
		Combination Meter	248
		Cruise Control (1MZ-FE, 3MZ-FE)	182
		Cruise Control (2AZ-FE)	188
		Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	200
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Engine Immobiliser System	94
		Headlight	114
		Illumination	128
		Interior Light	124
		Key Reminder	140
		Light Auto Turn Off System	122
		Manual Air Conditioning (1MZ-FE, 3MZ-FE)	272
		Manual Air Conditioning (2AZ-FE)	278
		Moon Roof	154
		Multiplex Communication System (BEAN)	98
		Navigation System, Audio System	238
		Power Window	156
		Seat Belt Warning	214
		SRS	175
		Theft Deterrent and Door Lock Control	142
		Wireless Door Lock Control	148
10A	ECU-IG	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
		Automatic Light Control	120
		Headlight	114
		Interior Light	124
		Key Reminder	140
		Light Auto Turn Off System	122
		Moon Roof	154
		Multiplex Communication System (BEAN)	98
		Power Window	156
		Theft Deterrent and Door Lock Control	142

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

Fuse		System	Page
10A	FAN RLY	Radiator Fan and Condenser Fan	254
10A	GAUGE1	Charging Clock Combination Meter Cruise Control (1MZ–FE, 3MZ–FE) Cruise Control (2AZ–FE) Electronically Controlled Transmission and A/T Indicator (1MZ–FE, 3MZ–FE) Electronically Controlled Transmission and A/T Indicator (2AZ–FE) Engine Control (1MZ–FE, 3MZ–FE) Engine Control (2AZ–FE) Illumination Key Reminder Multiplex Communication System (BEAN) Navigation System, Audio System Seat Belt Warning Shift Lock SRS Turn Signal and Hazard Warning Light	68 234 248 182 188 194 200 70 82 128 140 98 238 214 206 175 132
10A	GAUGE2	ABS (w/o VSC TMC Made) ABS (w/o VSC TMMK Made) ABS (w/ VSC), TRAC and VSC Automatic Glare–Resistant EC Mirror Back–Up Light Cruise Control (1MZ–FE, 3MZ–FE) Cruise Control (2AZ–FE) Electronically Controlled Transmission and A/T Indicator (1MZ–FE, 3MZ–FE) Electronically Controlled Transmission and A/T Indicator (2AZ–FE) Engine Control (1MZ–FE, 3MZ–FE) Engine Control (2AZ–FE) Moon Roof Multiplex Communication System (BEAN) Navigation System, Audio System Power Adjustable Pedals Rear Window Defogger and Mirror Heater	166 170 160 220 138 182 188 194 200 70 82 154 98 238 232 230
10A	HTR	Automatic Air Conditioning (1MZ–FE) Automatic Air Conditioning (2AZ–FE) Manual Air Conditioning (1MZ–FE, 3MZ–FE) Manual Air Conditioning (2AZ–FE)	260 266 272 278
10A	MIR HTR	Engine Control (1MZ–FE, 3MZ–FE) Engine Control (2AZ–FE) Rear Window Defogger and Mirror Heater	70 82 230
10A	PANEL	Clock Illumination	234 128

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

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
10A	RAD NO.2	Audio System (Built-In Type Amplifier w/o Navigation System)	246
		Audio System (Separate Type Amplifier w/o Navigation System)	242
		Navigation System, Audio System	238
10A	TAIL	Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Taillight	134
15A	CIG	Power Outlet and Cigarette Lighter	224
15A	FOG	Fog Light	118
15A	POWER POINT	Power Outlet and Cigarette Lighter	224
15A	STOP	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
		Cruise Control (1MZ-FE, 3MZ-FE)	182
		Cruise Control (2AZ-FE)	188
		Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	200
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Shift Lock	206
		Stop Light	136
15A	WASHER	Wiper and Washer	228
20A	RAD NO.1	Audio System (Built-In Type Amplifier w/o Navigation System)	246
		Audio System (Separate Type Amplifier w/o Navigation System)	242
		Navigation System, Audio System	238
20A	SEAT HTR	Seat Heater	212
25A	WIPER	Wiper and Washer	228
30A	PWR NO.1	Moon Roof	154
		Multiplex Communication System (BEAN)	98
		Power Window	156
30A	PWR SEAT	Power Seat	208
40A	DEF	Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Rear Window Defogger and Mirror Heater	230

Engine Room R/B (See Page 22)

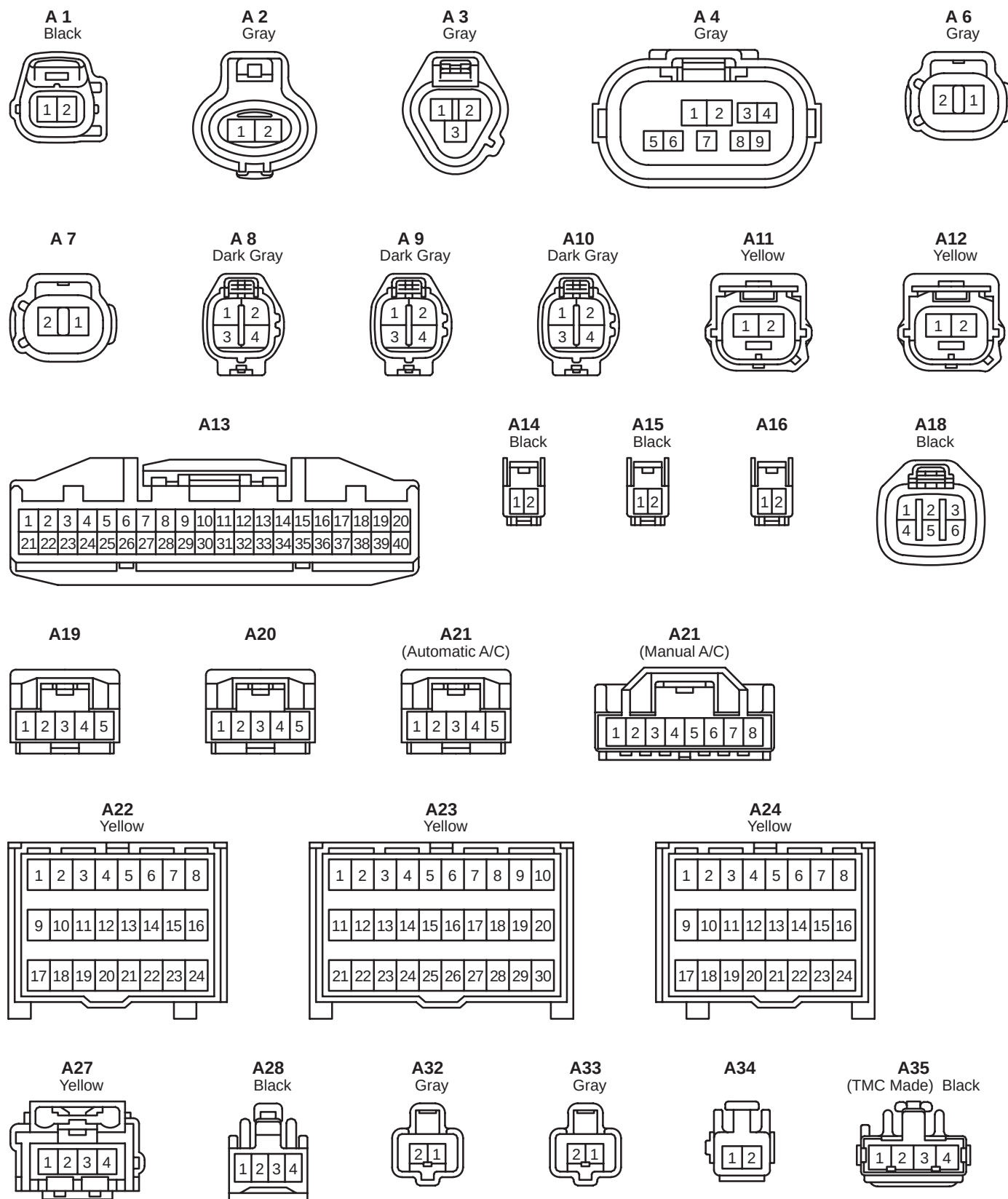
Fuse		System	Page
5A	DRL	Headlight	114
		Multiplex Communication System (BEAN)	98
10A	A/C	Manual Air Conditioning (1MZ-FE, 3MZ-FE)	272
		Manual Air Conditioning (2AZ-FE)	278
15A	HEAD LH LWR	Combination Meter	248
		Fog Light	118

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

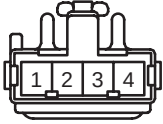
Fuse		System	Page
15A	HEAD LH LWR	Headlight	114
		Multiplex Communication System (BEAN)	98
15A	HEAD RH LWR	Headlight	114
		Multiplex Communication System (BEAN)	98
50A	ABS NO.1	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
120A	ALT	Automatic Light Control	120
		Charging	68
		Clock	234
		Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	194
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	200
		Engine Control (1MZ-FE, 3MZ-FE)	70
		Engine Control (2AZ-FE)	82
		Illumination	128
		Light Auto Turn Off System	122
		Multiplex Communication System (BEAN)	98
		Starting and ignition (1MZ-FE, 3MZ-FE)	60
		Starting and ignition (2AZ-FE)	64
		Taillight	134

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

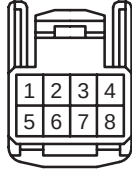
K CONNECTOR LIST



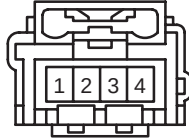
A35
(TMMK Made)



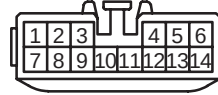
A36



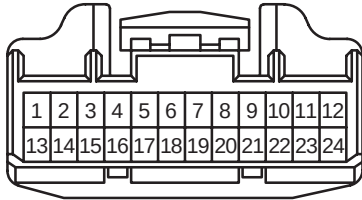
A37
Yellow



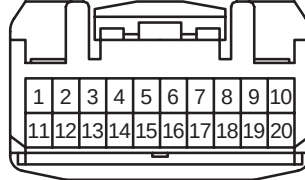
A38



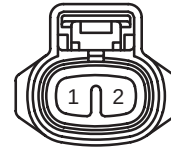
A39



A40



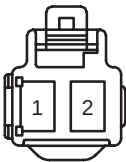
B 1
Gray



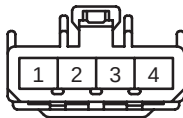
B 2
Gray



B 3



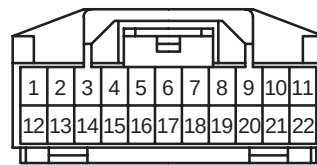
B 4
Black



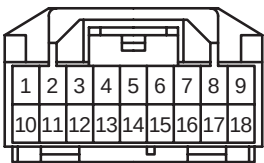
B 5
Black



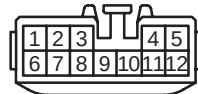
B 6



B 7



B 8



B 9



B10
(TMC Made)



B10
(TMMK Made)



B11
(TMC Made)



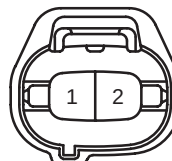
B11
(TMMK Made) Gray



C 1
Black



C 2
Black



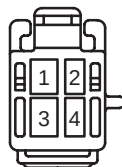
C 3
(1MZ-FE, 3MZ-FE) Black



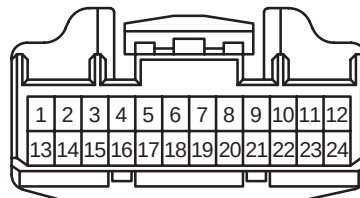
C 3
(2AZ-FE) Dark Gray



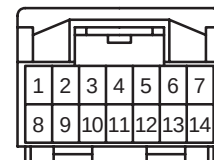
C 4



C 5
(Automatic A/C)



C 5
(Manual A/C)

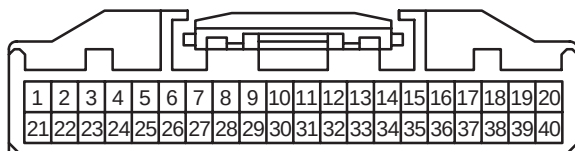


K CONNECTOR LIST

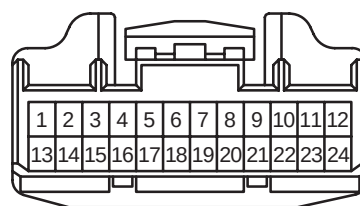
C 6
Black



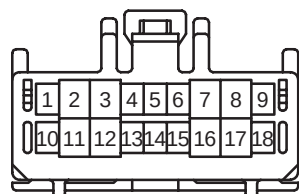
C 7



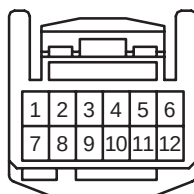
C 8



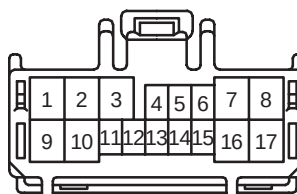
C 9
Black



C10
Black



C11



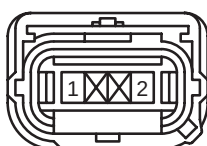
C12



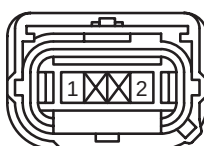
C13



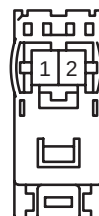
C14
Yellow



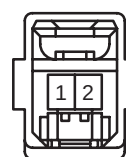
C15
Yellow



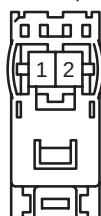
C16
(TMC Made) Black



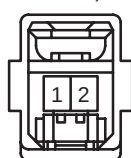
C16
(TMMK Made) Yellow



C17
(TMC Made) Black



C17
(TMMK Made) Yellow



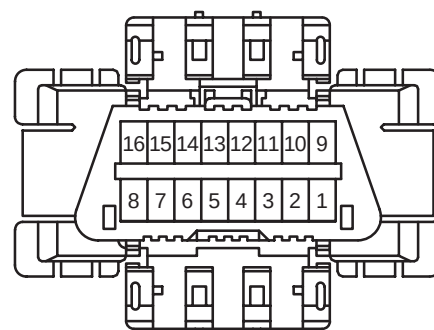
D 1
Gray



D 2
Black



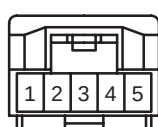
D 3



D 4
Black



D 5



D 6
(TMC Made) Black



D 6
(TMMK Made)



D 7
(TMC Made) Black



D 7
(TMMK Made)



D 8
(TMC Made) Black



D 8
(TMMK Made)



D 9
(TMC Made) Black



D 9
(TMMK Made)



D10

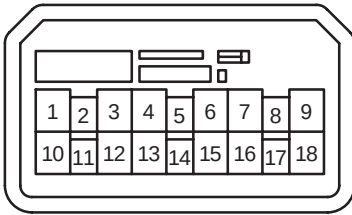
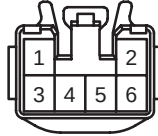
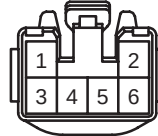
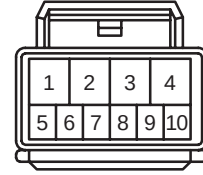
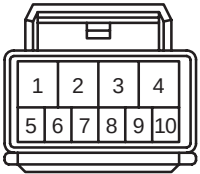
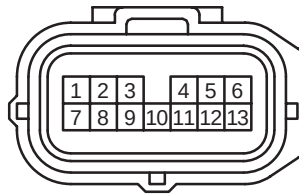
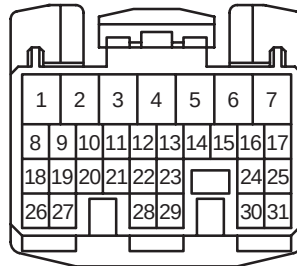
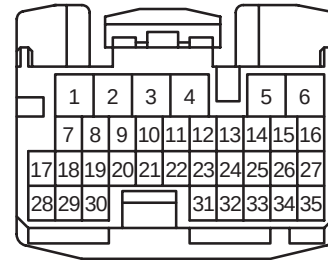
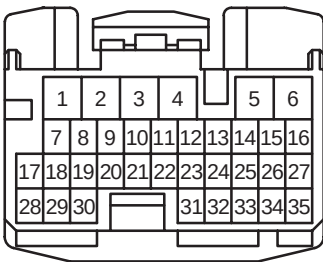
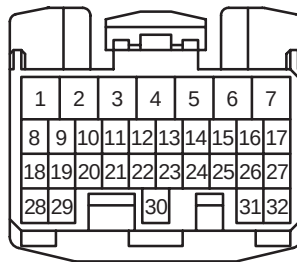
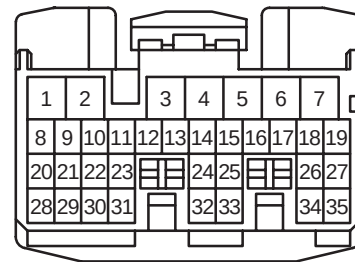
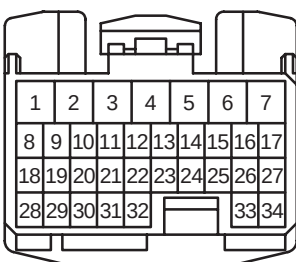


D11



*1 : TMC Made, TMMK Made 1MZ-FE, 3MZ-FE

*2 : TMMK Made 2AZ-FE

D12**D13**
(TMC Made)**D13**
(TMMK Made) Black**D14****D15****D16**
Gray**E 3**
Gray**E 4**
(1MZ-FE, 3MZ-FE) Dark Gray**E 4**
(2AZ-FE) Black**E 5**
Black**E 6****E 7**
(*1)**E 7**
(*2) Black**E 8****E 9****E10****F 1**
Brown**F 2**
Brown**F 5**
(TMC Made) Gray**F 5**
(TMMK Made) Black

K CONNECTOR LIST

*3 : w/ Rear Spoiler

*4 : w/o Rear Spoiler

F 6
(TMC Made)



F 6
(TMMK Made)



F 7
(TMC Made)



F 7
(TMMK Made)



F 8



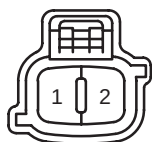
F 9
Gray



F10
Gray



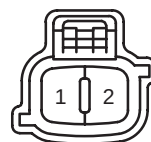
F11
(TMC Made) Black



F11
(TMMK Made) Black



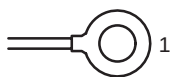
F12
(TMC Made) Black



F12
(TMMK Made) Black



G 1



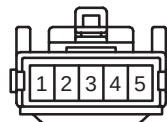
G 2
Black



G 3
Black



G 4



H 1
Black



H 2
Brown



H 3
Black



H 4
Brown



H 6
(1MZ-FE, 3MZ-FE) Dark Gray



H 6
(2AZ-FE)



H 7
Black



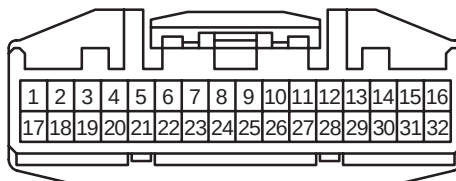
H 8
Black



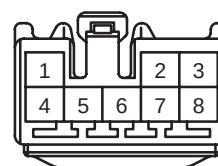
H 9
Black



H10



H11



H12
(*3)



H12
(*4) Gray



H13
(TMC Made) Dark Gray (TMMK Made) Black



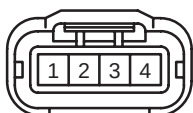
I 1
Black



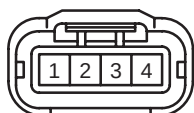
I 2
Black



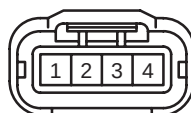
I 3
Black



I 4
Black



I 5
Black

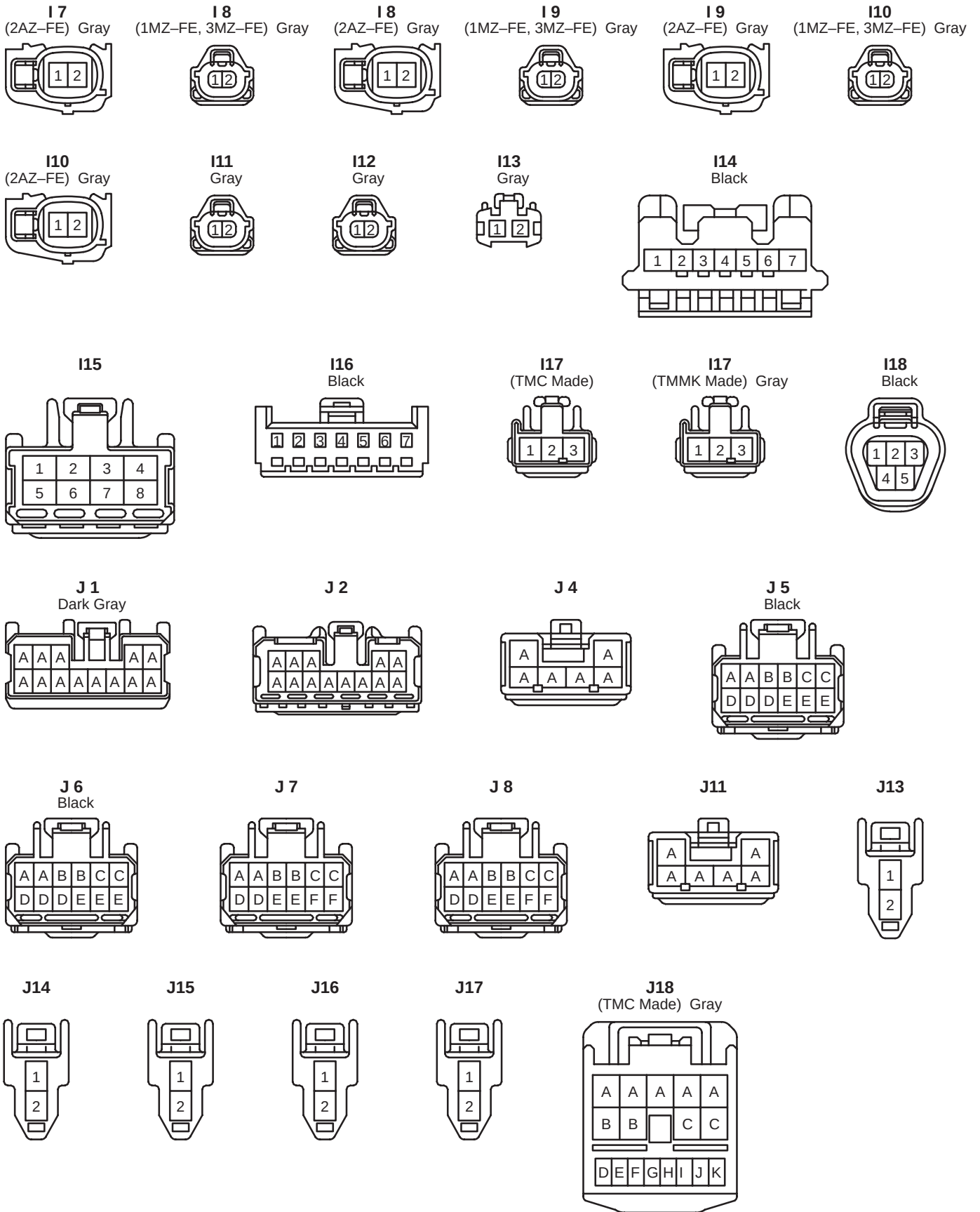


I 6
Black



I 7
(1MZ-FE, 3MZ-FE) Gray



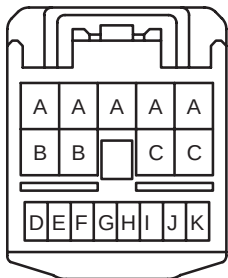


K CONNECTOR LIST

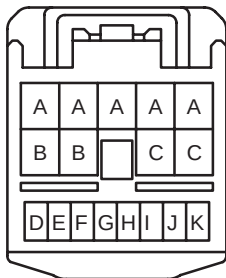
*5 : TMC Made w/ Mirror Heater

*6 : TMC Made w/o Mirror Heater

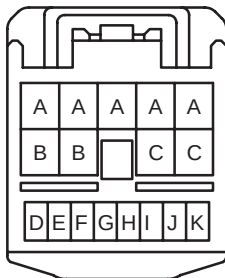
J18
(TMMK Made)



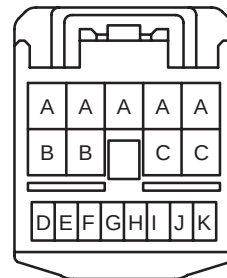
J19
(TMC Made) Gray



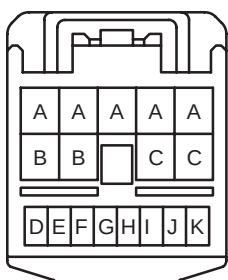
J19
(TMMK Made)



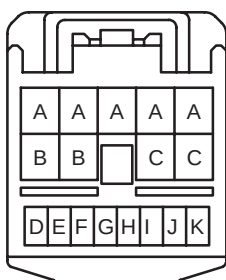
J20
Gray



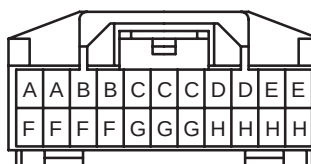
J21
(TMC Made) Gray



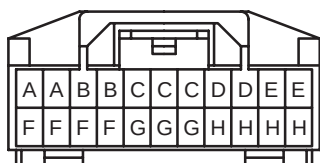
J21
(TMMK Made)



J22



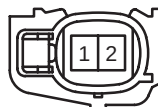
J23



K 1
Black



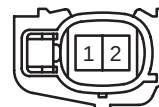
K 2
Black



K 3
(1MZ-FE) Dark Gray



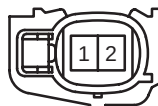
K 3
(3MZ-FE) Gray



K 4
(1MZ-FE) Dark Gray



K 4
(3MZ-FE) Gray



L 1
Gray



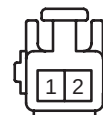
L 2
Gray



L 3



L 4
Black



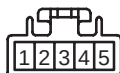
L 5



M 1
Black



M 2
(*5)



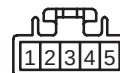
M 2
(*6)



M 2
(TMMK Made)



M 3
(*5)



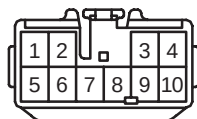
M 3
(*6)



M 3
(TMMK Made)



M 4
(TMC Made)



M 4
(TMMK Made)



N 1
Gray

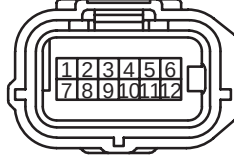
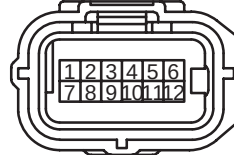
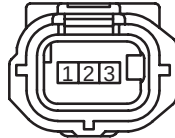
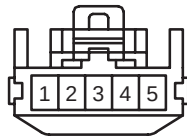
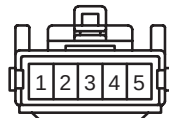
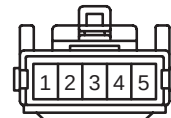
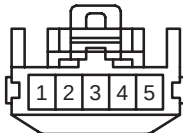


N 4



*7 : w/ Power Adjustable Pedals

*8 : w/o Power Adjustable Pedals

O 1
Gray**O 3**
Gray**O 4**
Black**O 5**
Gray**O 6**
Black**O 7**
Black**O 8**
Gray**O 9**
Gray**O10**
Black**O11**
(TMC Made) Black**O11**
(TMMK Made) Gray**O12**
Black**O13**
Black**O14**
(TMC Made) Black**O14**
(TMMK Made) Gray**P 1**
Black**P 2**
Gray**P 3**
(*7) Blue**P 3**
(*8)**P 4****P 5****P 6**
(TMC Made)**P 6**
(TMMK Made)**P 7**
(TMC Made) Black**P 7**
(TMMK Made)**P 8**
(TMC Made)**P 8**
(TMMK Made)**P 9**
(TMC Made) Black**P 9**
(TMMK Made) Black

K CONNECTOR LIST

*9 : TMMK Made w/ Power Seat, TMC Made

*10 : TMMK Made w/o Power Seat

P10
(TMC Made) Black



P10
(TMMK Made) Black



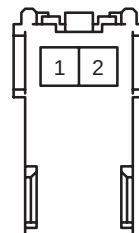
P11
Black



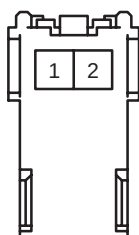
P12
Black



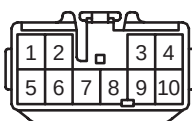
P13
Yellow



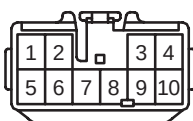
P14
Yellow



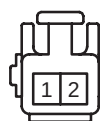
P15
Black



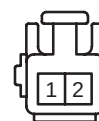
P16
Black



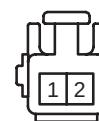
P17
Black



P18
Black



P19
Black



P20
Black



P22
Black



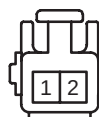
P23
Black



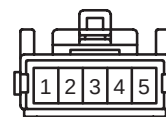
P24
Black



P25
Black



P28



P29
(*9)



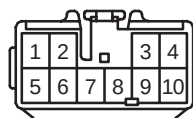
P29
(*10) Black



R 1
Gray



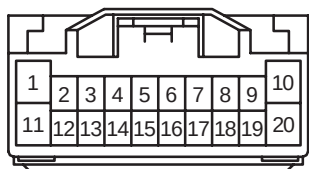
R 2



R 3
Blue



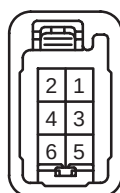
R 4



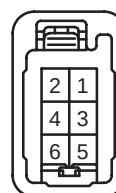
R 5
Black



R 6



R 7



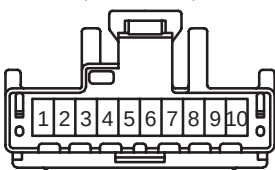
R 8



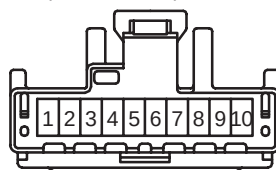
R 9



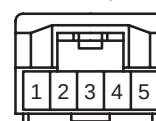
R10
(TMC Made)



R10
(TMMK Made) Black

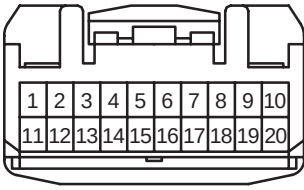
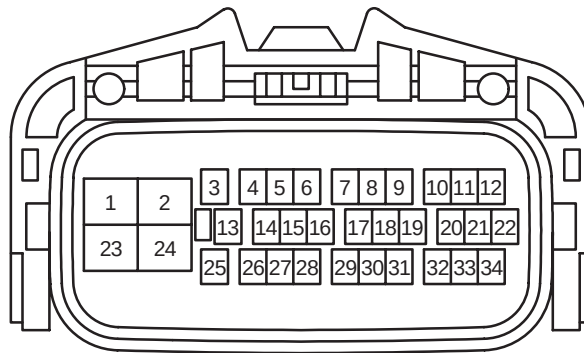
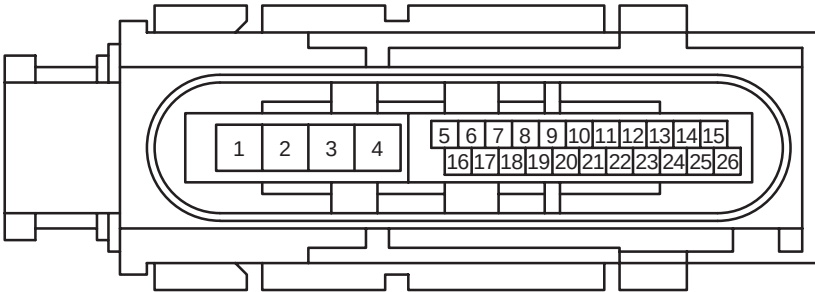
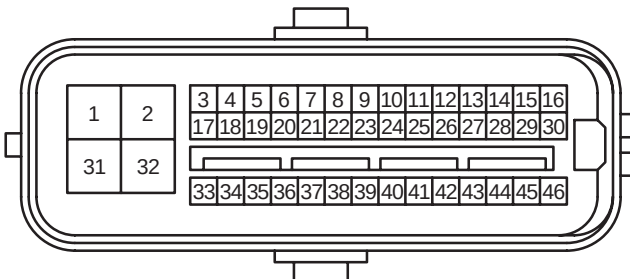
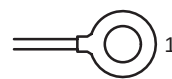
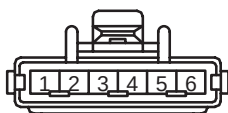
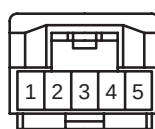
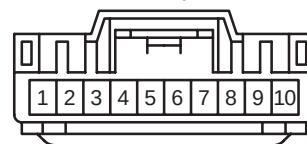
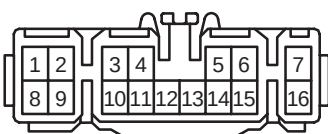
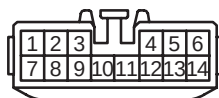
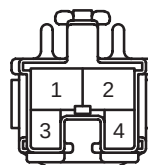
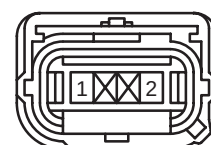


R12
Gray



*11 : TMC Made w/o VSC

*12 : TMMK Made w/o VSC

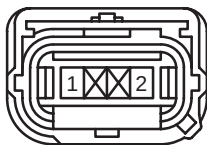
R13**S 1**
(*11) Black**S 1**
(*12) Black**S 1**
(w/ VSC) Black**S 2**
Black**S 3****S 4**
Black**S 5**
Blue**S 6****S11**
Gray**S12****S13****S14**
Blue**S15**
Yellow

K CONNECTOR LIST

*13 : TMMK Made 2AZ-FE California, TMC Made

*14 : TMMK Made Except 2AZ-FE California

S16
Yellow



S17



S18



S19
Yellow



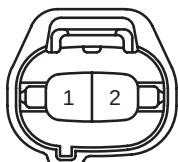
S20
Yellow



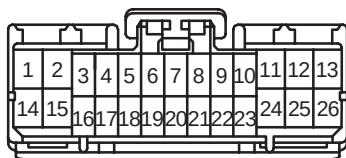
T 1
Black



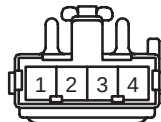
T 4
Black



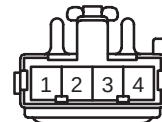
T 5



T 6
(TMC Made)



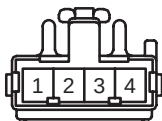
T 6
(TMMK Made) Black



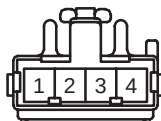
T 7
Black



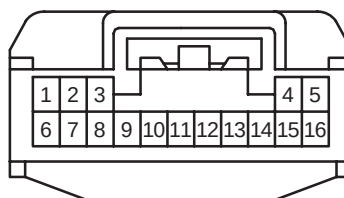
T 9



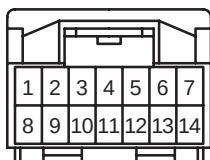
T10



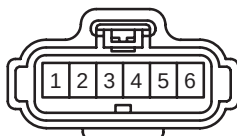
T11
(TMC Made)



T11
(TMMK Made)



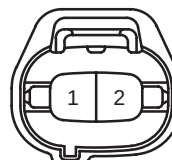
T12
Black



U 1



V 3
Blue



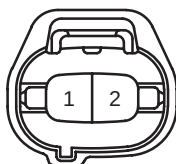
V 4
(*13) Black



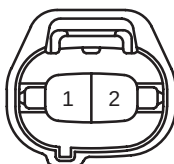
V 4
(*14) Blue



V 6
(1MZ-FE, 3MZ-FE) Blue



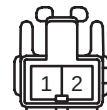
V 6
(2AZ-FE) Black



V 7
Black



V 8
Black



V 9
(TMC Made) Blue



V 9
(TMMK Made)



V10
(TMC Made) Blue



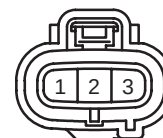
V10
(TMMK Made)

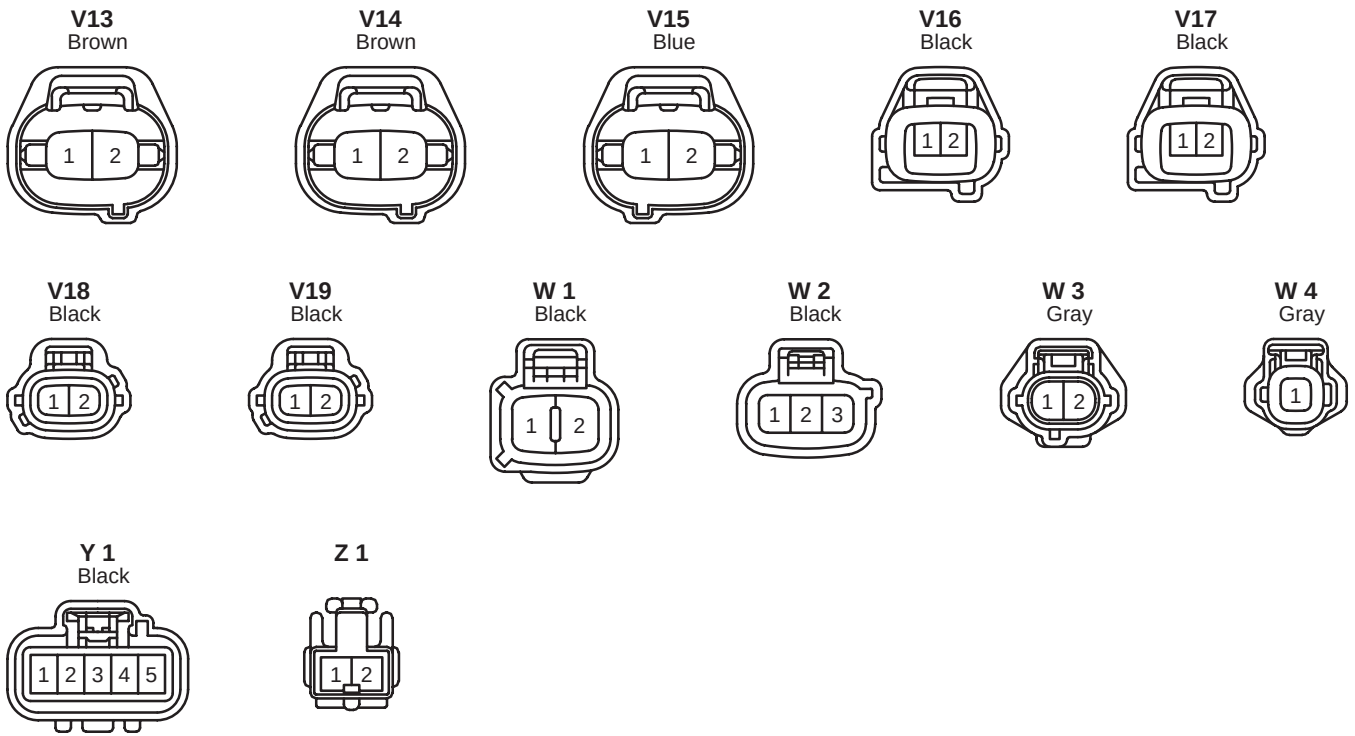


V11
(TMC Made) Black

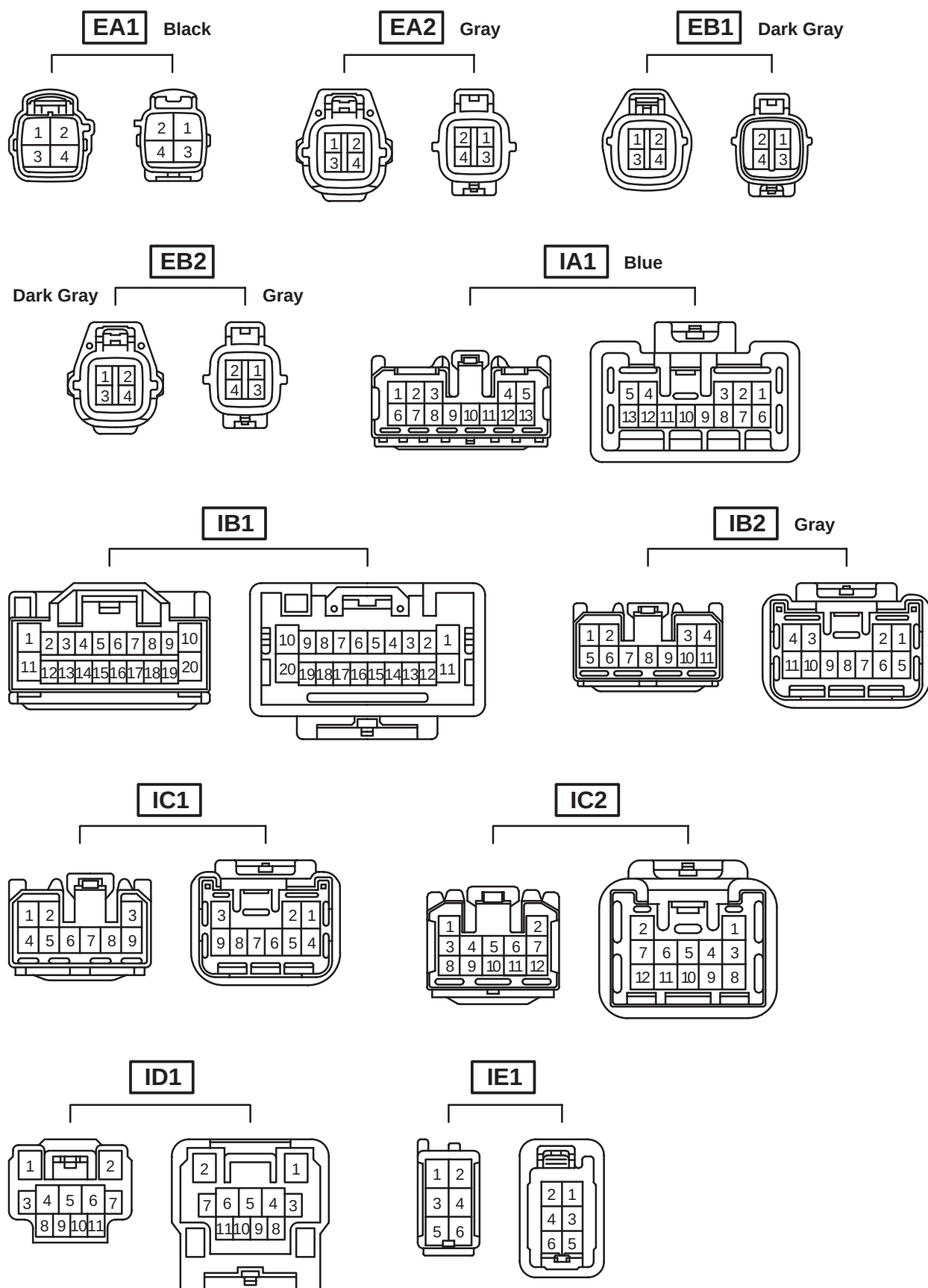


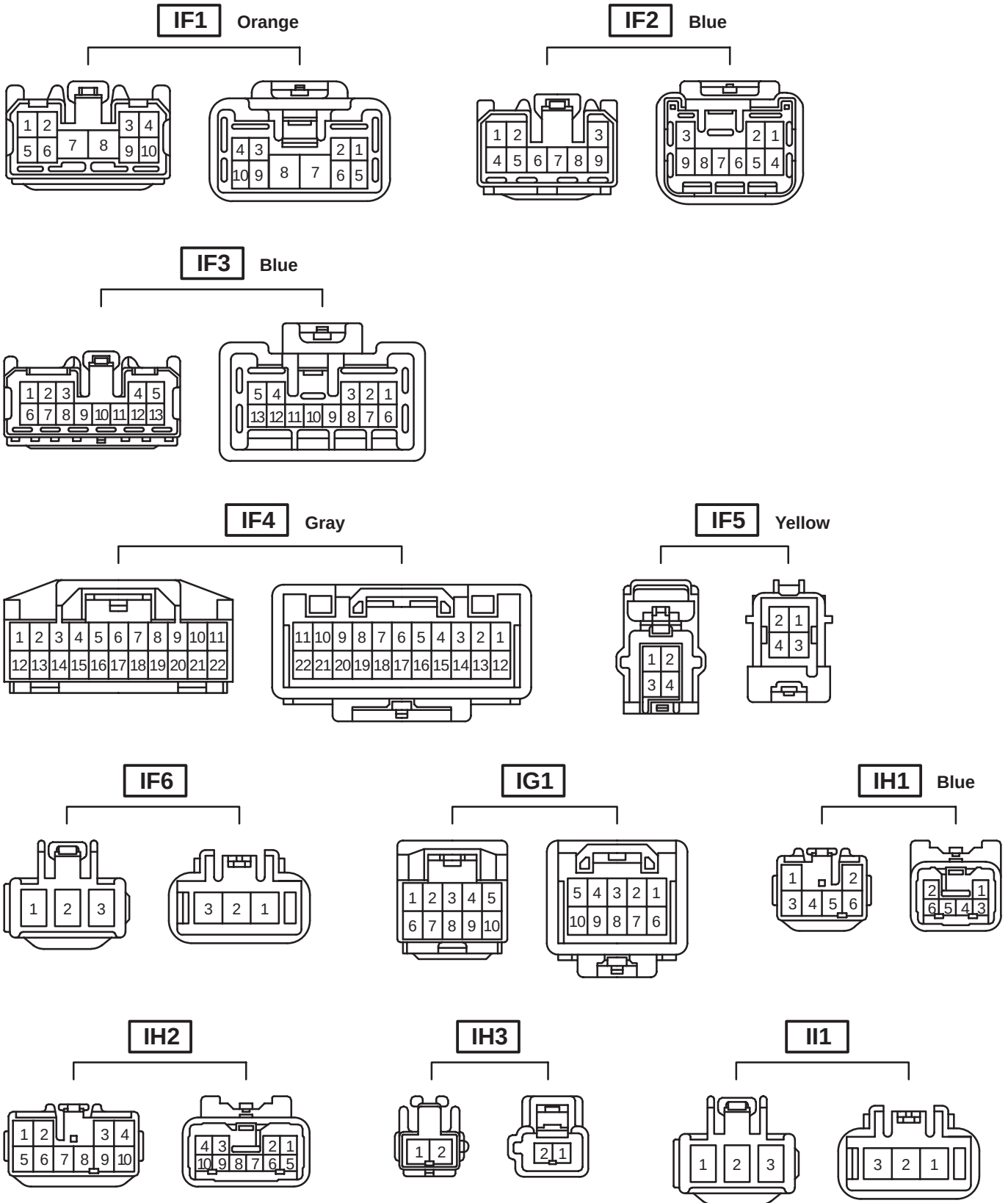
V11
(TMMK Made) Black



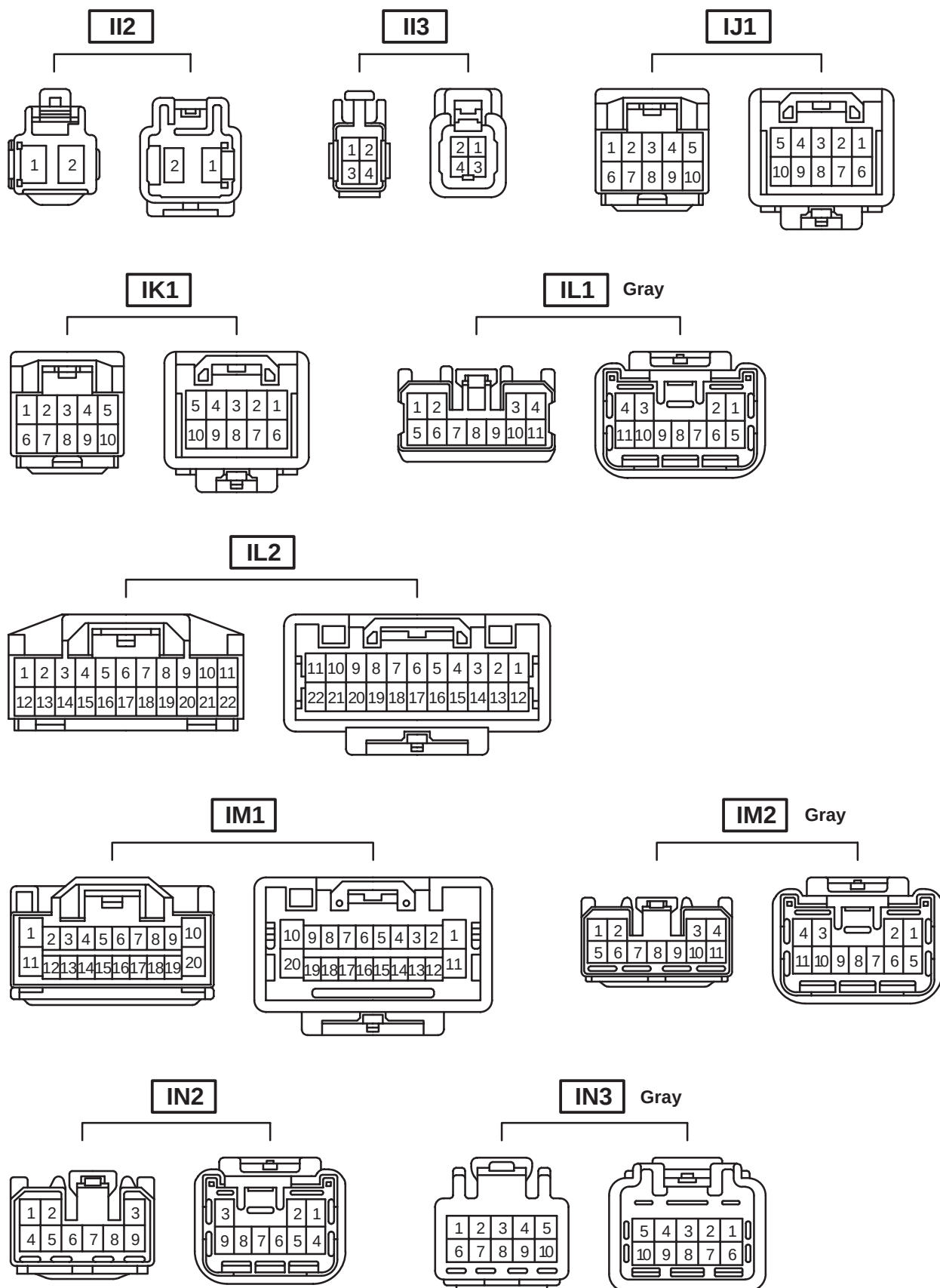


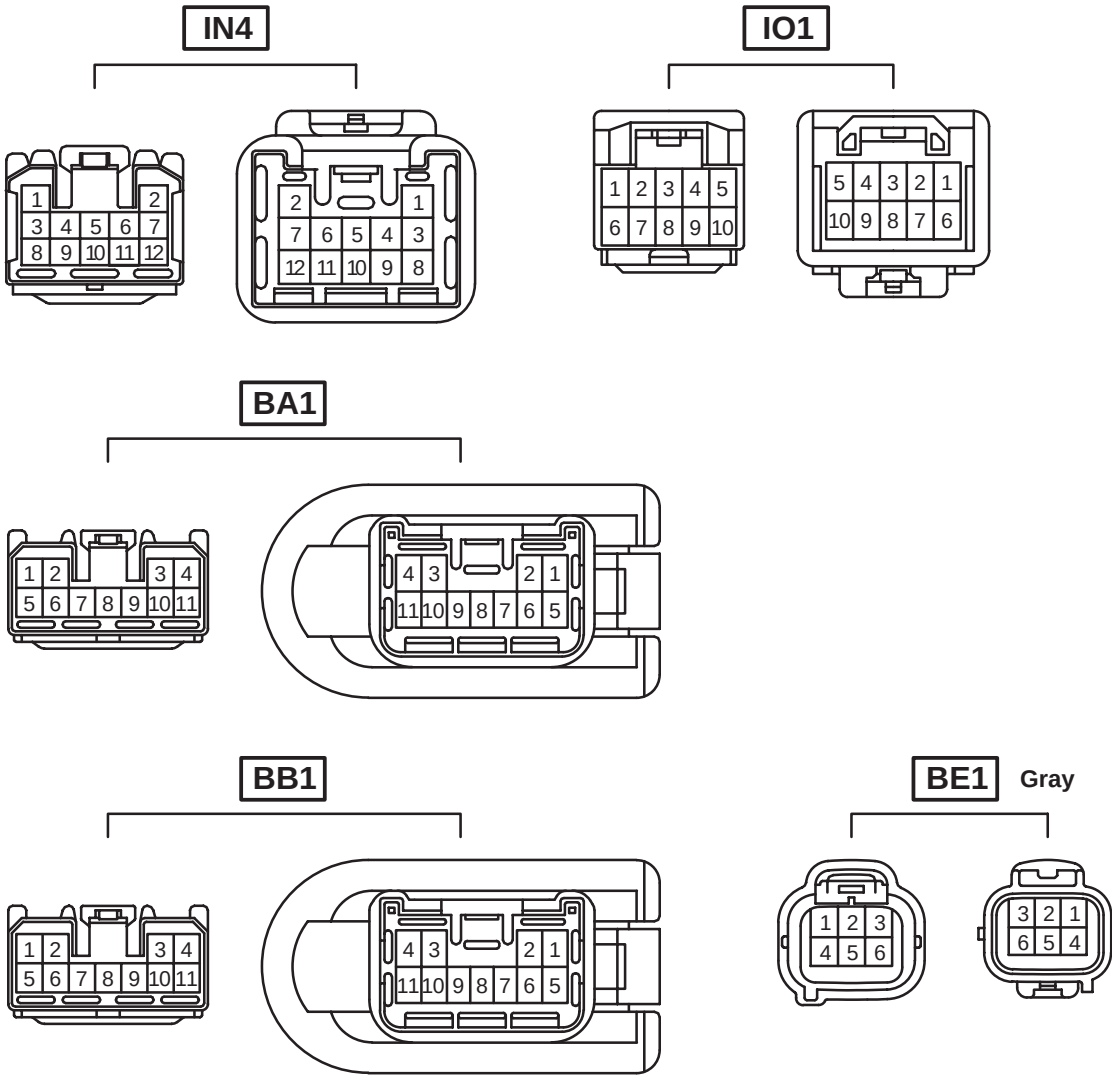
K CONNECTOR LIST





K CONNECTOR LIST





L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	B 8	Body ECU	90980-10803
A 2	A/C Condenser Fan Motor	90980-10928	B 9	Buckle SW LH	90980-11950
A 3	A/C Lock Sensor	90980-11016	B10	Buckle SW (Front Passenger's Side) (TMC Made)	90980-11019
	A/C Magnetic Clutch			Buckle SW (Front Passenger's Side) (TMMK Made)	90980-10947
A 4	A/T Indicator Light SW	90980-12362	B11	Buckle SW LH (TMC Made)	90980-10942
	Back-Up Light SW			Buckle SW LH (TMMK Made)	90980-11034
	Park/Neutral Position SW			Seat Position Airbag Sensor (TMC Made)	90980-10942
A 6	ABS Speed Sensor Front LH	90980-11002		Seat Position Airbag Sensor (TMMK Made)	90980-11034
A 7	ABS Speed Sensor Front RH		C 1	Camshaft Position Sensor	90980-10947
A 8	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980-11178	C 2	Counter Gear Speed Sensor	90980-11156
A 9	Air Fuel Ratio Sensor (Bank 1 Sensor 1)		C 3	Crankshaft Position Sensor	90980-10947
A10	Air Fuel Ratio Sensor (Bank 2 Sensor 1)		C 4	Cigarette Lighter	90980-11606
A11	Airbag Sensor Front LH	Cigarette Lighter Illumination			
A12	Airbag Sensor Front RH	90980-11856	C 5	Clock (Automatic A/C)	90980-12200
A13	A/C Control Assembly			Clock (Manual A/C)	90980-11911
A14	A/C Room Temp. Sensor	90980-11918	C 6	Clutch Start SW	90980-10825
A15	A/C Solar Sensor		C 7	Combination Meter	90980-12170
A16	A/C Thermistor		C 8	Combination Meter	90980-12200
A18	Accelerator Position Sensor	90980-11144	C 9	Combination SW	90980-11594
A19	Air Inlet Control Servo Motor	90980-11909	C10	Combination SW	90980-12183
A20	Air Mix Control Servo Motor		C11	Combination SW	90980-11672
A21	Air Vent Mode Servo Motor (Automatic A/C)	90980-11909	C12	Cruise Control Clutch SW	90980-10906
	Air Vent Mode Servo Motor (Manual A/C)	90980-11989	C13	Choke Coil	90980-11259
A22	Airbag Sensor Assembly	90980-12392	C14	Curtain Shield Airbag Sensor LH	90980-12241
A23	Airbag Sensor Assembly	90980-12391	C15	Curtain Shield Airbag Sensor RH	
A24	Airbag Sensor Assembly	90980-12390	C16	Curtain Shield Airbag Squib LH (TMC Made)	90980-12219
A27	Airbag Squib (Steering Wheel Pad)	90980-12160		Curtain Shield Airbag Squib LH (TMMK Made)	90980-11884
A28	Automatic Light Control Sensor	90980-11107	C17	Curtain Shield Airbag Squib RH (TMC Made)	90980-12219
A32	ABS Speed Sensor Rear LH	90980-11060		Curtain Shield Airbag Squib RH (TMMK Made)	90980-11884
A33	ABS Speed Sensor Rear RH		D 1	Diode (A/C No.1)	90980-11071
A34	Adjustable Pedal Motor	90980-10825	D 2	Diode (A/C No.2)	90980-10962
A35	Adjustable Pedal SW	90980-11090	D 3	Data Link Connector 3	90980-11665
A36	A/T Shift Lever Illumination	90980-12221	D 4	Diode (Luggage Compartment Light)	90980-10962
	Transmission Control SW		D 5	Door Control Receiver	90980-11909
A37	Airbag Squib (Front Airbag Sensor Assembly)	90980-12160	D 6	Door Courtesy SW Front LH	90980-10871
A38	A/C Amplifier	90980-10807	D 7	Door Courtesy SW Front RH	
A39	A/C Control Assembly	90980-12200	D 8	Door Courtesy SW Rear LH	
A40	A/C Control Assembly	90980-12259	D 9	Door Courtesy SW Rear RH	
B 1	Back-Up Light SW	90980-11250	D10	Door Key Lock and Unlock SW Front LH	90980-12226
B 2	Brake Fluid Level Warning SW	90980-11207		Door Lock Motor Front LH	
B 3	Blower Motor	90980-10903		Door Unlock Detection SW Front LH	
B 4	Blower Motor Controller	90980-11676			
B 5	Blower Resistor	90980-11136			
B 6	Body ECU	90980-11915			
B 7	Body ECU	90980-11913			

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

Code	Part Name	Part Number	Code	Part Name	Part Number
D11	Door Key Lock and Unlock SW Front RH	90980-12226	H 4	Headlight RH (Low)	90980-11096
	Door Lock Motor Front RH		H 6	Heated Oxygen Sensor (Bank 1 Sensor 2) (1MZ-FE, 3MZ-FE)	90980-10869
	Door Unlock Detection SW Front RH			Heated Oxygen Sensor (Bank 1 Sensor 2) (2AZ-FE)	90980-11028
D12	Door Lock Control SW Front LH	90980-12122	H 7	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
	Power Window Master SW		H 8	Horn (High)	90980-10619
D13	Door Lock Control SW RH (TMC Made)	82824-12270	H 9	Horn (Low)	
	Door Lock Control SW RH (TMMK Made)	90980-10797	H10	Heater Control SW	90980-12153
D14	Door Lock Motor Rear LH	90980-12226	H11	Heater Control SW	90980-11686
	Door Unlock Detection SW Rear LH		H12	High Mounted Stop Light (w/ Rear Spoiler)	90980-11060
D15	Door Lock Motor Rear RH			High Mounted Stop Light (w/o Rear Spoiler)	90980-11148
	Door Unlock Detection SW Rear RH		H13	Heated Oxygen Sensor (Bank 1 Sensor 3)	90980-11028
D16	Daytime Running Light Resistor	90980-10928	I 1	Ignition Coil and Igniter No.1	90980-11885
E 3	Electronically Controlled Transmission Solenoid	90980-12326	I 2	Ignition Coil and Igniter No.2	
E 4	Engine Coolant Temp. Sensor (1MZ-FE, 3MZ-FE)	90980-10737	I 3	Ignition Coil and Igniter No.3	
	Engine Coolant Temp. Sensor (2AZ-FE)	90980-10735	I 4	Ignition Coil and Igniter No.4	
E 5	Engine Hood Courtesy SW	90980-11003	I 5	Ignition Coil and Igniter No.5	
E 6	Engine Control Module	90980-12525	I 6	Ignition Coil and Igniter No.6	
E 7	Engine Control Module	90980-12146	I 7	Injector No.1 (1MZ-FE, 3MZ-FE)	90980-11153
E 8	Engine Control Module	90980-12143		Injector No.1 (2AZ-FE)	90980-11875
E 9	Engine Control Module	90980-12145	I 8	Injector No.2 (1MZ-FE, 3MZ-FE)	90980-11153
E10	Engine Control Module	90980-12144		Injector No.2 (2AZ-FE)	90980-11875
F 1	Front Fog Light LH	90980-11096	I 9	Injector No.3 (1MZ-FE, 3MZ-FE)	90980-11153
F 2	Front Fog Light RH			Injector No.3 (2AZ-FE)	90980-11875
F 5	Front Wiper Motor	90980-11599	I10	Injector No.4 (1MZ-FE, 3MZ-FE)	90980-11153
F 6	Front Door Speaker LH (TMC Made)	82824-12260		Injector No.4 (2AZ-FE)	90980-11875
	Front Door Speaker LH (TMMK Made)	90980-10935	I11	Injector No.5	90980-11153
F 7	Front Door Speaker RH (TMC Made)	82824-12260	I12	Injector No.6	
	Front Door Speaker RH (TMMK Made)	90980-10935	I13	Ignition Key Cylinder Light	90980-10679
F 8	Fuel Pump	90980-11077	I14	Ignition Key Cylinder Light	90980-12092
	Fuel Sender			Transponder Key Amplifier	
F 9	Front Parking Light LH	90980-10887	I15	Ignition SW	90980-11615
F10	Front Parking Light RH		I16	Inner Mirror	90980-11794
F11	Front Turn Signal Light LH (TMC Made)	90980-11019	I17	Interior Light	90980-10908
	Front Turn Signal Light LH (TMMK Made)	90980-11020	I18	Intake Air Control Valve	90980-11599
F12	Front Turn Signal Light RH (TMC Made)	90980-11019	J 1	Junction Connector	90980-12346
	Front Turn Signal Light RH (TMMK Made)	90980-11020	J 2	Junction Connector	90980-11542
G 1	Generator	90980-09213	J 4	Junction Connector	90980-10976
G 2	Generator	90980-11964	J 5	Junction Connector	90980-11661
G 3	Glove Box Light and SW	90980-11098	J 6	Junction Connector	
G 4	Garage Door Opener	90980-10789	J 7	Junction Connector	
	Moon Roof Control SW		J 8	Junction Connector	
	Personal Light		J11	Junction Connector	90980-10976
H 1	Headlight LH (High)	90980-11095	J13	Junction Connector	90980-12355
H 2	Headlight LH (Low)	90980-11096	J14	Junction Connector	
H 3	Headlight RH (High)	90980-11095	J15	Junction Connector	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
J16	Junction Connector	90980-12355	O 1	Oil Pressure SW	90980-11363
J17	Junction Connector		O 3	Occupant Classification ECU	90980-12357
J18	Junction Connector		O 4	Occupant Classification ECU	90980-12356
J19	Junction Connector	90980-12374	O 5	Occupant Classification Sensor Front RH	90980-12354
J20	Junction Connector		O 6	Occupant Classification Sensor Rear RH	90980-12353
J21	Junction Connector		O 7	Occupant Classification Sensor Front LH	
J22	Junction Connector		90980-11915	O 8	Occupant Classification Sensor Rear LH
J23	Junction Connector	O 9		Occupant Classification ECU	90980-12357
K 1	Keyless Buzzer	90980-11142		O10	Occupant Classification ECU
K 2	Knock Sensor (Bank 1)	90980-11875	O11	Occupant Classification Sensor Front RH (TMC Made)	90980-12353
K 3	Knock Sensor (Bank 1) (1MZ-FE)	90980-11166		Occupant Classification Sensor Front RH (TMMK Made)	90980-12354
	Knock Sensor (Bank 1) (3MZ-FE)	90980-11875		O12	Occupant Classification Sensor Rear RH
K 4	Knock Sensor (Bank 2) (1MZ-FE)	90980-11166	O13	Occupant Classification Sensor Front LH	
	Knock Sensor (Bank 2) (3MZ-FE)	90980-11875	O14	Occupant Classification Sensor Rear LH (TMC Made)	90980-12353
L 1	License Plate Light LH	90980-11148		Occupant Classification Sensor Rear LH (TMMK Made)	90980-12354
L 2	License Plate Light RH				
L 3	Luggage Compartment Door Key Unlock SW	90980-11060	P 1	Power Steering Oil Pressure SW	90980-11428
L 4	Luggage Compartment Door Opener Motor	90980-10825	P 2	Pressure SW	90980-10943
	Luggage Compartment Light SW				
L 5	Luggage Compartment Light	90980-11148	P 3	Parking Brake SW (w/ Power Adjustable Pedals)	90980-10860
M 1	Mass Air Flow Meter	90980-11317		Parking Brake SW (w/o Power Adjustable Pedals)	90980-10871
M 2	Mirror Heater LH (TMC Made w/ Mirror Heater)	90980-10558	P 4	Power Outlet (Front)	90980-10760
	Mirror Heater LH (TMC Made w/o Mirror Heater)	90980-10395	P 5	Power Outlet (Rear)	90980-10860
	Mirror Heater LH (TMMK Made)	90980-11488	P 6	Power Window Control SW Front RH (TMC Made)	82824-12230
	Remote Control Mirror LH (TMC Made w/ Mirror Heater)	90980-10558		Power Window Control SW Front RH (TMMK Made)	90980-10789
	Remote Control Mirror LH (TMC Made w/o Mirror Heater)	90980-10395	P 7	Power Window Control SW Rear LH	90980-10789
	Remote Control Mirror LH (TMMK Made)	90980-11488	P 8	Power Window Control SW Rear RH (TMC Made)	82824-12230
M 3	Mirror Heater RH (TMC Made w/ Mirror Heater)	90980-10558		Power Window Control SW Rear RH (TMMK Made)	90980-10789
	Mirror Heater RH (TMC Made w/o Mirror Heater)	90980-10395	P 9	Power Window Motor Front LH (TMC Made)	82824-12270
	Mirror Heater RH (TMMK Made)	90980-11488		Power Window Motor Front LH (TMMK Made)	90980-10797
	Remote Control Mirror RH (TMC Made w/ Mirror Heater)	90980-10558	P10	Power Window Motor Front RH (TMC Made)	82824-12270
	Remote Control Mirror RH (TMC Made w/o Mirror Heater)	90980-10395		Power Window Motor Front RH (TMMK Made)	90980-10797
	Remote Control Mirror RH (TMMK Made)	90980-11488		P11	Power Window Motor Rear LH
M 4	Moon Roof Control ECU and Motor (TMC Made)	90980-10997	P12	Power Window Motor Rear RH	
	Moon Roof Control ECU and Motor (TMMK Made)	90980-10799	P13	Pretensioner LH	90980-12253
N 1	Noise Filter (Ignition)	90980-10843	P14	Pretensioner RH	
N 4	Noise Filter (Stop and Dome)	90980-10860			

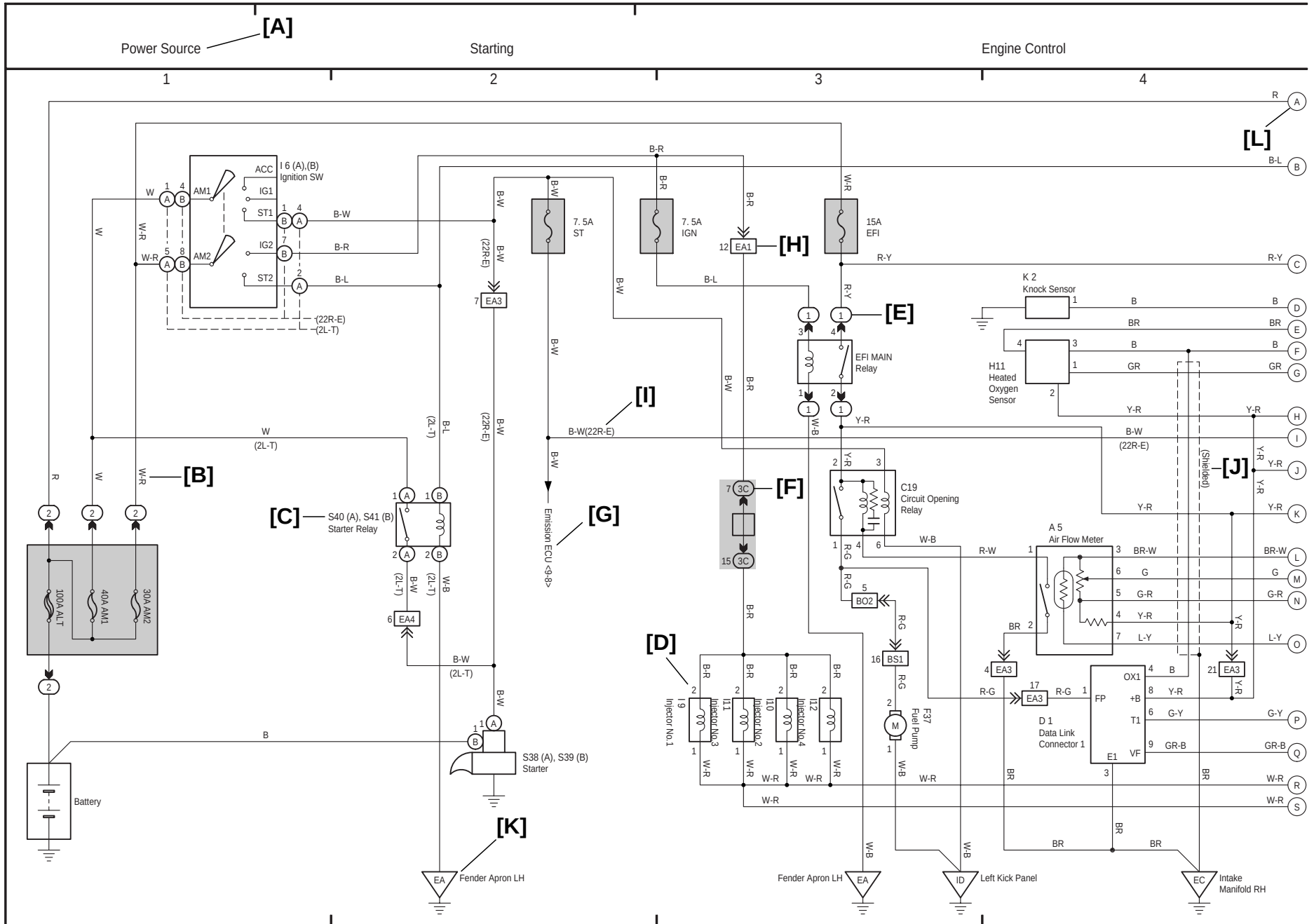
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
P15	Power Seat Control SW (Driver's Seat)	90980-10997	S11	Steering Sensor	82824-45030
P16	Power Seat Control SW (Front Passenger's Seat)		S12	Stereo Component Amplifier	90980-10848
P17	Power Seat Motor (Driver's Seat Front Vertical Control)	90980-10825	S13	Stereo Component Amplifier	90980-10807
P18	Power Seat Motor (Driver's Seat Lifter Control)		S14	Stop Light SW	90980-11118
P19	Power Seat Motor (Driver's Seat Reclining Control)		S15	Side Airbag Sensor LH	90980-12241
P20	Power Seat Motor (Driver's Seat Slide Control)		S16	Side Airbag Sensor RH	
P22	Power Seat Motor (Front Passenger's Seat Front Vertical Control)		S17	Seat Heater LH	90980-10906
P23	Power Seat Motor (Front Passenger's Seat Lifter Control)		S18	Seat Heater RH	
P24	Power Seat Motor (Front Passenger's Seat Reclining Control)		S19	Side Airbag Squib LH	90980-11864
P25	Power Seat Motor (Front Passenger's Seat Slide Control)		S20	Side Airbag Squib RH	
P28	Power Seat Control SW (Driver's Seat Lumbar Support Control)	90980-10789	T 1	Theft Deterrent Horn	90980-10619
P29	Power Seat Motor (Driver's Seat Lumbar Support Control)	90980-10825	T 4	Turbine Speed Sensor	90980-11156
R 1	Radiator Fan Motor	90980-10928	T 5	Theft Deterrent ECU	90980-11423
R 2	Radio and Player	90980-10997	T 6	TRAC OFF SW	90980-11013
R 3	Radio and Player	90980-10996	T 7	Turn Signal Flasher Relay	90980-10799
R 4	Radio and Player (w/o Navigation System)	90980-12038	T 9	Tweeter LH	90980-11013
	Radio and Player with Display (w/ Navigation System)		T10	Tweeter RH	
R 5	Rheostat	90980-11950	T11	Transponder Key Computer (TMC Made)	90980-12423
R 6	Rear Combination Light LH	90980-11587		Transponder Key Computer (TMMK Made)	90980-11911
R 7	Rear Combination Light RH		T12	Throttle Control Motor	90980-11858
R 8	Rear Speaker LH	90980-11299		Throttle Position Sensor	
R 9	Rear Speaker RH		U 1	Unlock Warning SW	90980-10860
R10	Remote Control Mirror SW	90980-11657	V 3	VSV (AICV)	90980-11156
R12	Radio and Player with Display	90980-11909	V 4	VSV (Canister Closed Valve)	90980-11859
R13	Radio and Player (w/o Navigation System)	90980-12259	V 6	VSV (EVAP)	90980-11156
	Radio and Player with Display (w/ Navigation System)		V 7	VVT Solenoid	90980-11162
S 1	Skid Control ECU with Actuator (TMC Made w/o VSC)	90980-12020	V 8	VSC Warning Buzzer	90980-10906
	Skid Control ECU with Actuator (TMMK Made w/o VSC)	90080-98317	V 9	Vanity Light LH	90980-10621
	Skid Control ECU with Actuator (w/ VSC)	90980-12297	V10	Vanity Light RH	
S 2	Starter	90980-11400	V11	Vapor Pressure Sensor (TMC Made)	90980-11143
S 3	Starter	90980-09463		Vapor Pressure Sensor (TMMK Made)	90980-11860
S 4	Seat Heater SW (Driver's Seat)	90980-10964	V13	VSV (ACIS No.1)	90980-11149
S 5	Seat Heater SW (Front Passenger's Seat)	90980-10933	V14	VSV (ACIS No.2)	
S 6	Shift Lock Control ECU	90980-11909	V15	VSV (ACM)	90980-11156
			V16	VVT Sensor LH	90980-10947
			V17	VVT Sensor RH	
			V18	VVT Solenoid LH	90980-11162
			V19	VVT Solenoid RH	
			W 1	Washer Level Sensor	90980-11068
			W 2	Washer Motor	90980-10981
			W 3	Water Temp. SW No.1	90980-11235
			W 4	Water Temp. SW No.2	90980-11243
			Y 1	Yaw Rate Sensor	90980-11904
			Z 1	Option Connector (TVIP ECU)	90980-10860

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.

M OVERALL ELECTRICAL WIRING DIAGRAM



[A] : System Title

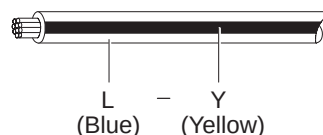
[B] : Indicates the wiring color.

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

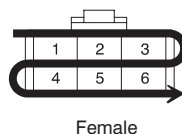


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

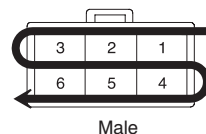
[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



Female



Male

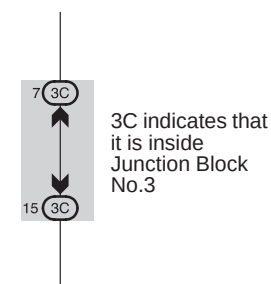
The numbering system for the overall wiring diagram is the same as above

[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

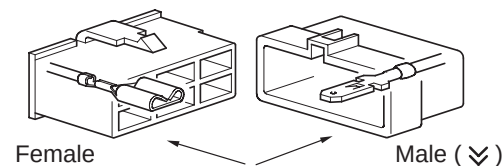
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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 and located on ground point.

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

SYSTEM INDEX

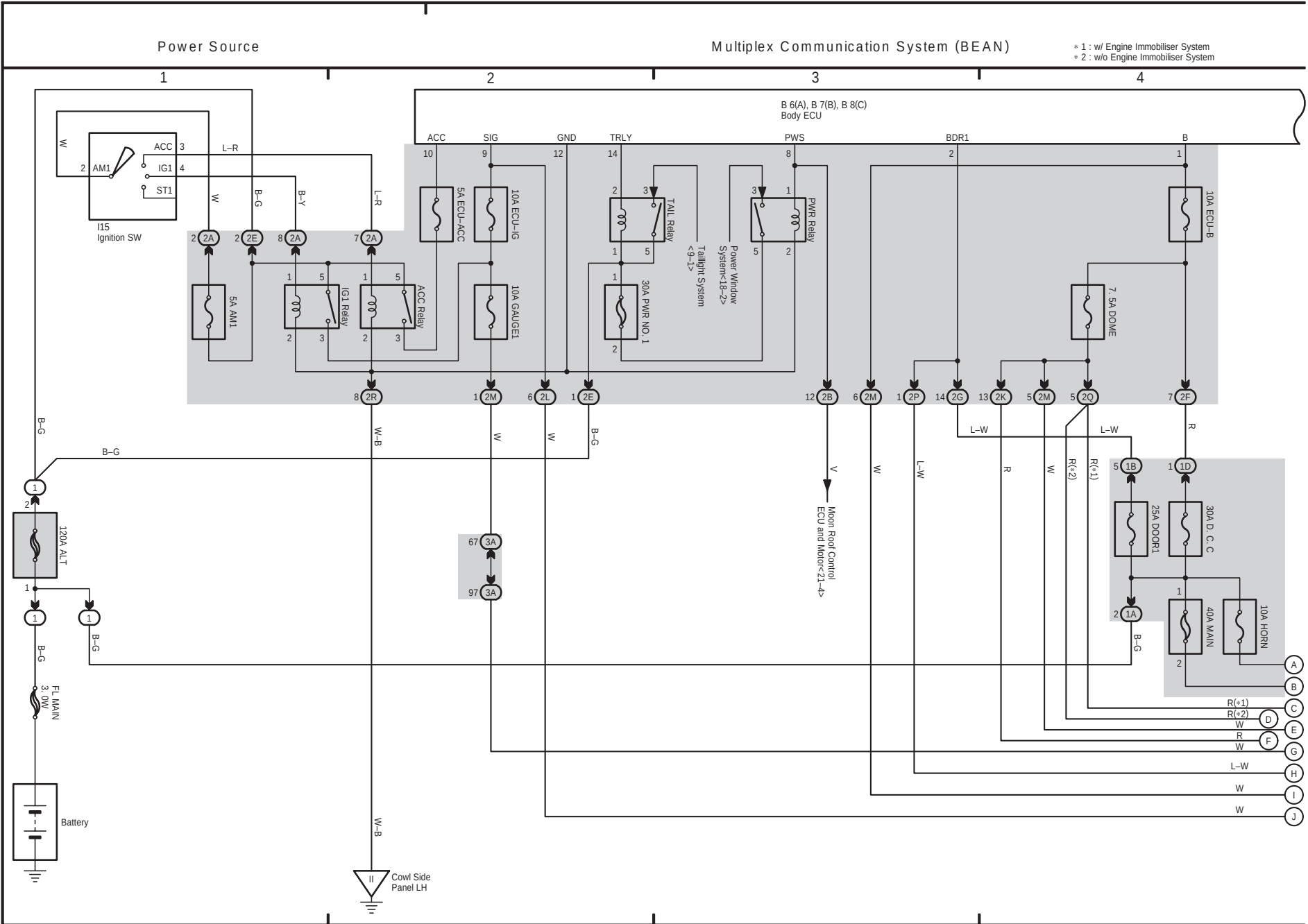
SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS (w/ VSC)	13-4	Moon Roof	21-4
ABS (w/o VSC TMC Made)	14-2	Multiplex Communication System (BEAN)	1-2
ABS (w/o VSC TMMK Made)	15-2	* Automatic Light Control	
Audio System (Built-in Type Amplifier w/o Navigation System) ...	29-3	* Door Lock Control	
Audio System (Separate Type Amplifier w/o Navigation System) ..	28-2	* Garage Door Opener	
Audio System (w/ Navigation System)	27-2	* Headlight	
Automatic Air Conditioning (1MZ-FE)	32-2	* Interior Light	
Automatic Air Conditioning (2AZ-FE)	33-2	* Key Reminder	
Automatic Glare-Resistant EC Mirror	21-3	* Light Auto Turn Off System	
Back-Up Light	12-2	* Theft Deterrent	
Charging	4-2	* Wireless Door Lock Control	
Cigarette Lighter	23-2	Multiplex Communication System (CAN)	13-11
Clock	26-2	Navigation System	27-2
Combination Meter	30-2	Power Adjustable Pedals	25-2
Cruise Control (1MZ-FE, 3MZ-FE)	5-18	Power Outlet	23-2
Cruise Control (2AZ-FE)	6-18	Power Seat	24-2
Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)	7-2	Power Source	1-35-1
Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	8-2	Power Window	18-3
Engine Control (1MZ-FE, 3MZ-FE)	5-8	Radiator Fan and Condenser Fan	31-2
Engine Control (2AZ-FE)	6-8	Rear Window Defogger	20-3
Engine Immobiliser System (1MZ-FE, 3MZ-FE)	5-3	Remote Control Mirror	19-3
Engine Immobiliser System (2AZ-FE)	6-4	Seat Belt Warning	17-2
Fog Light	12-4	Seat Heater	23-4
Horn	17-4	Shift Lock	23-3
Ignition (1MZ-FE, 3MZ-FE)	2-2	SRS	16-2
Ignition (2AZ-FE)	3-2	Starting (1MZ-FE, 3MZ-FE)	2-2
Illumination	10-2	Starting (2AZ-FE)	3-2
Manual Air Conditioning (1MZ-FE, 3MZ-FE)	34-3	Stop Light	9-3
Manual Air Conditioning (2AZ-FE)	35-3	Taillight	9-2
Mirror Heater	20-4	TRAC	13-4
		Turn Signal and Hazard Warning Light	11-2
		VSC	13-4
		Wiper and Washer	22-3

(Cont. next page)

1 CAMRY

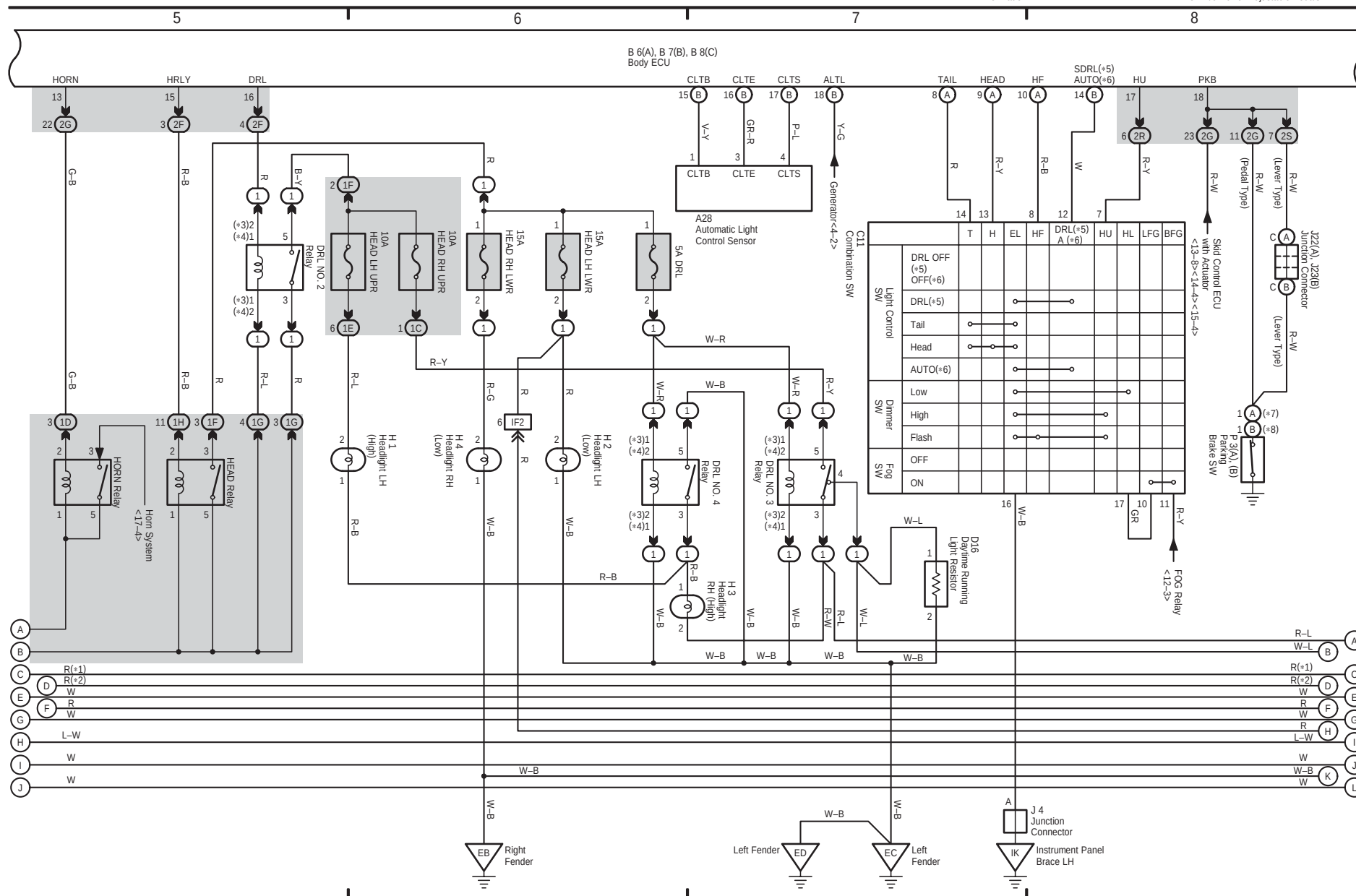
324

CAMRY (EM0100U)



- * 1 : w/ Engine Immobiliser System
- * 2 : w/o Engine Immobiliser System
- * 3 : TMMK Made
- * 4 : TMC Made

- * 5 : USA
- * 6 : Canada
- * 7 : w/ Power Adjustable Pedals
- * 8 : w/o Power Adjustable Pedals



Wiring diagram for the Body ECU (B 6(A), B 7(B), B 8(C)).

Legend:

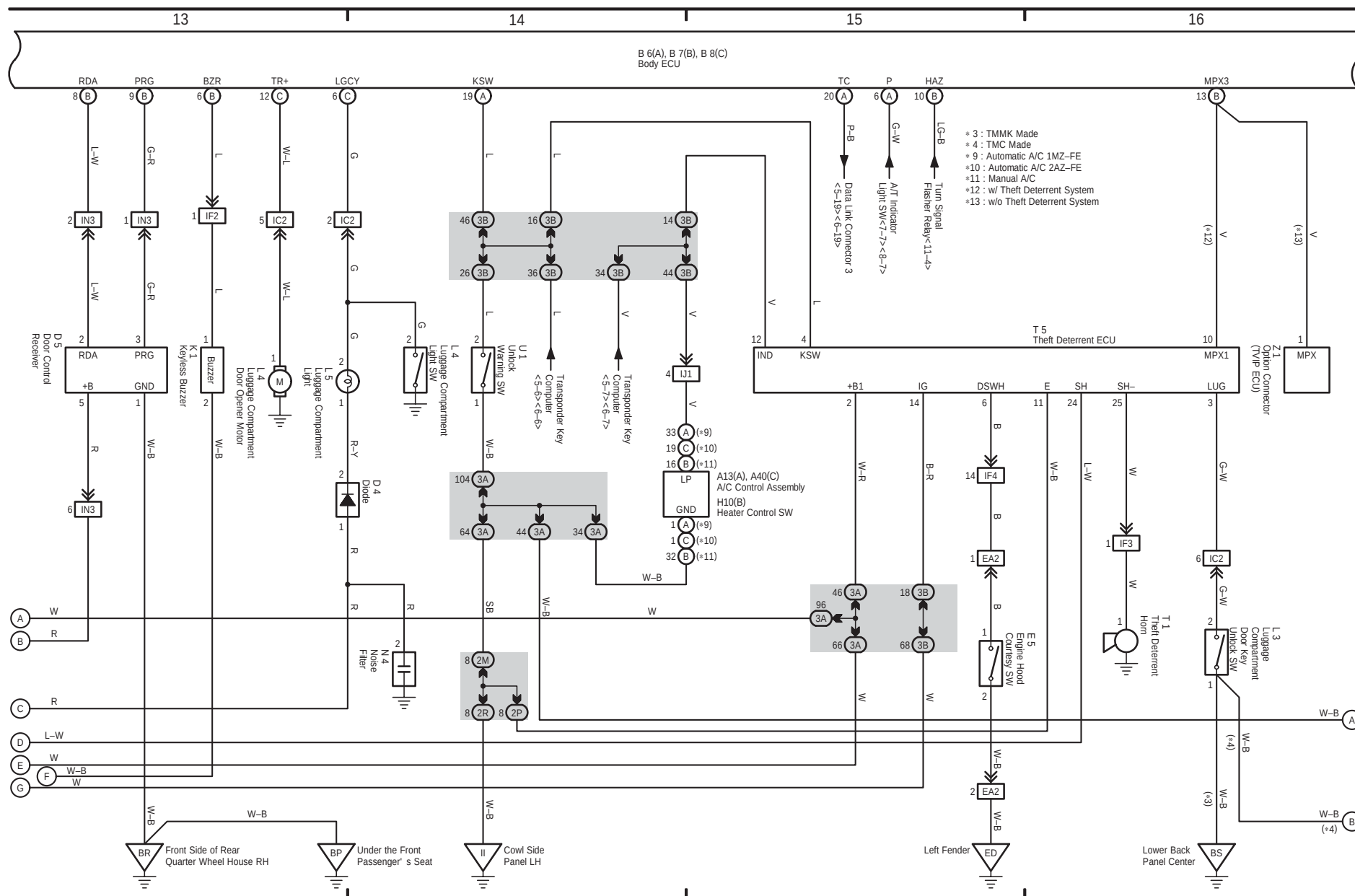
- * 1 : w/ Engine Immobiliser System
- * 2 : w/o Engine Immobiliser System
- * 3 : TMMK Made
- * 4 : TMC Made

Components and Connections:

- Ignition Key:** I13 (Ignition Key Cylinder Light), I14 (Ignition Key Cylinder Light).
- Door Courtesy SW:** D 6(A), (B) Front LH; D 7(A), (B) Front RH; D 8(A), (B) Rear LH; D 9(A), (B) Rear RH.
- Instrument Panel:** IN (Instrument Panel Reinforcement RH), IM (Instrument Panel Reinforcement RH), IJ (Instrument Panel Brace LH).
- Other Components:** IE1, IE2, IE3, IF1, IF2, IF3, IF4, IF5, IF6, IF7, IF8, IF9, IF10, IF11, IF12, IF13, IF14, IF15, IF16, IF17, IF18, IF19, IF20, IF21, IF22, IF23, IF24, IF25, IF26, IF27, IF28, IF29, IF30, IF31, IF32, IF33, IF34, IF35, IF36, IF37, IF38, IF39, IF40, IF41, IF42, IF43, IF44, IF45, IF46, IF47, IF48, IF49, IF50, IF51, IF52, IF53, IF54, IF55, IF56, IF57, IF58, IF59, IF60, IF61, IF62, IF63, IF64, IF65, IF66, IF67, IF68, IF69, IF70, IF71, IF72, IF73, IF74, IF75, IF76, IF77, IF78, IF79, IF80, IF81, IF82, IF83, IF84, IF85, IF86, IF87, IF88, IF89, IF90, IF91, IF92, IF93, IF94, IF95, IF96, IF97, IF98, IF99, IF100.

- * 1 : w/ Engine Immobiliser System
- * 2 : w/o Engine Immobiliser System
- * 3 : TMMK Made
- * 4 : TMC Made

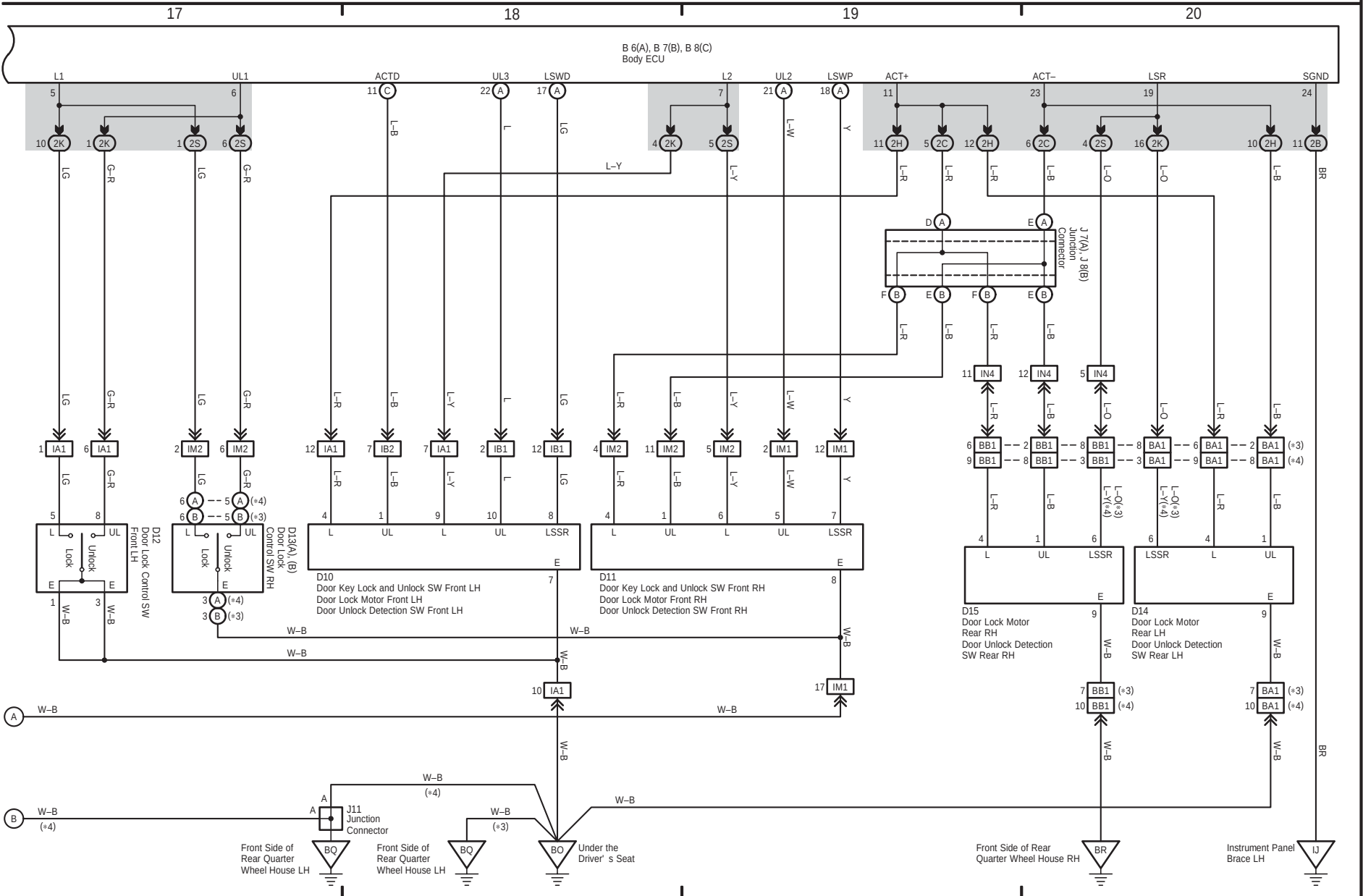
CAMRY (EM0100U)



1 CAMRY (Cont' d)

Multiplex Communication System (BEAN)

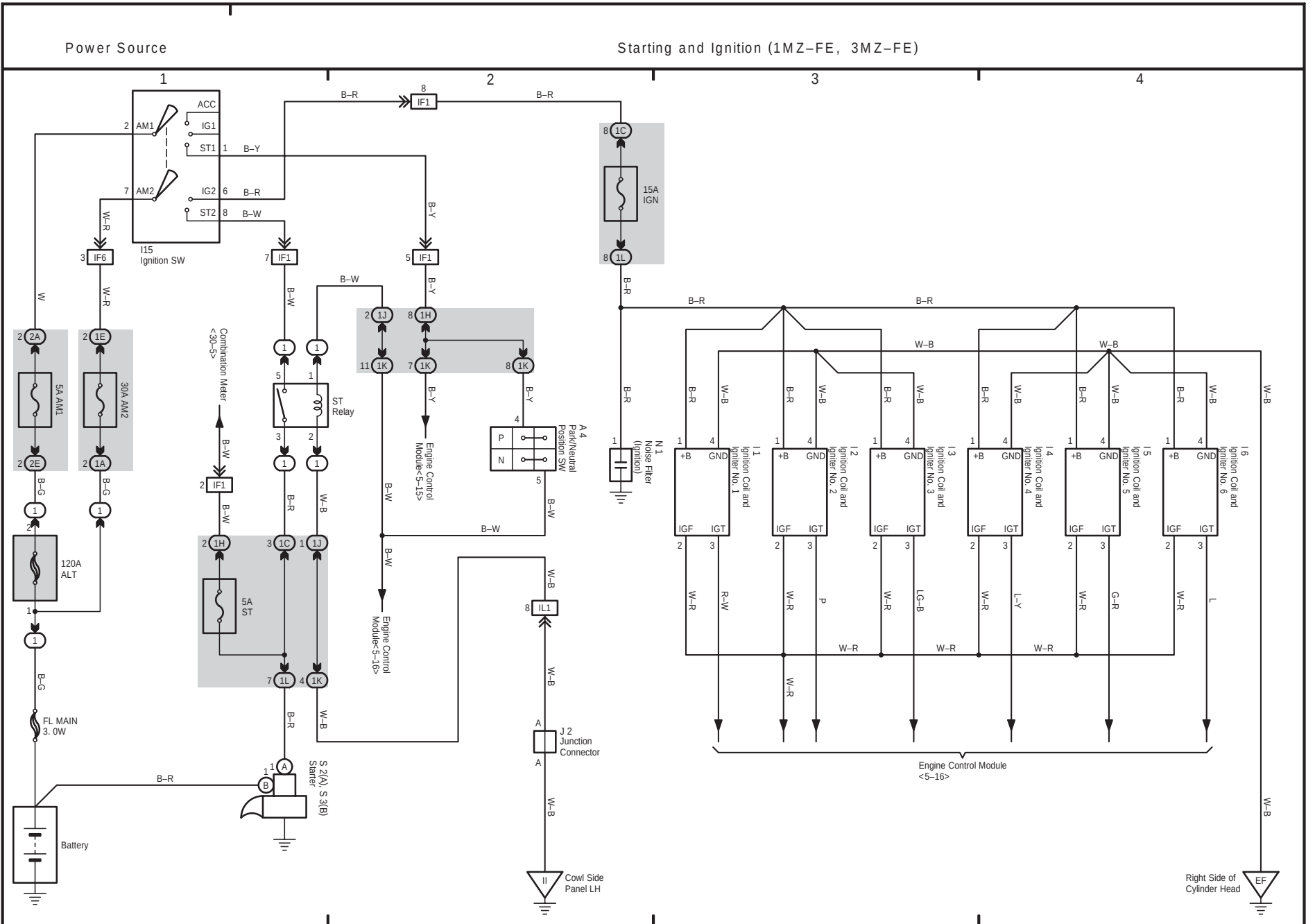
* 3 : TMMK Made
* 4 : TMC Made



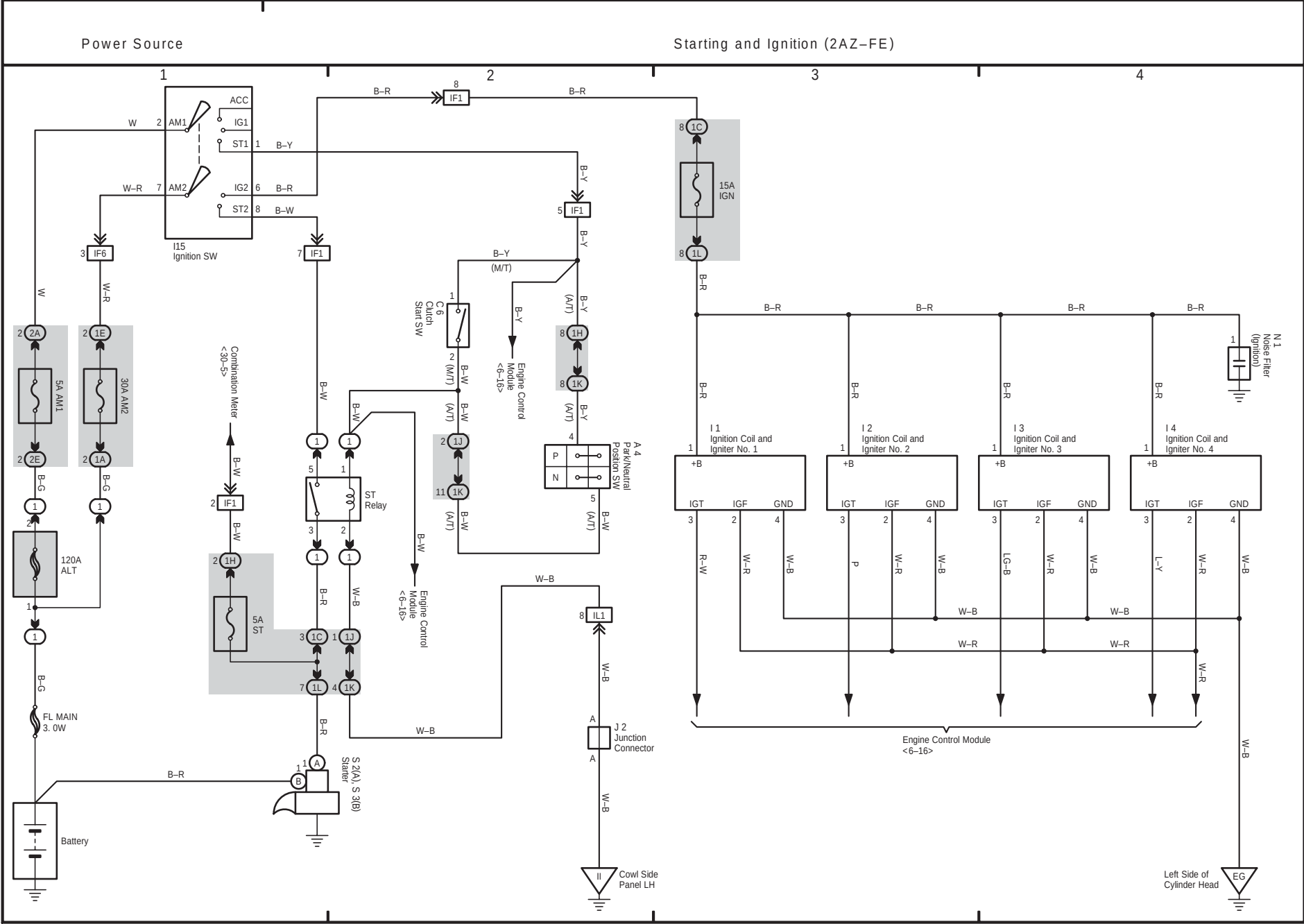
2 CAMRY

CAMRY (EM0100U)

329



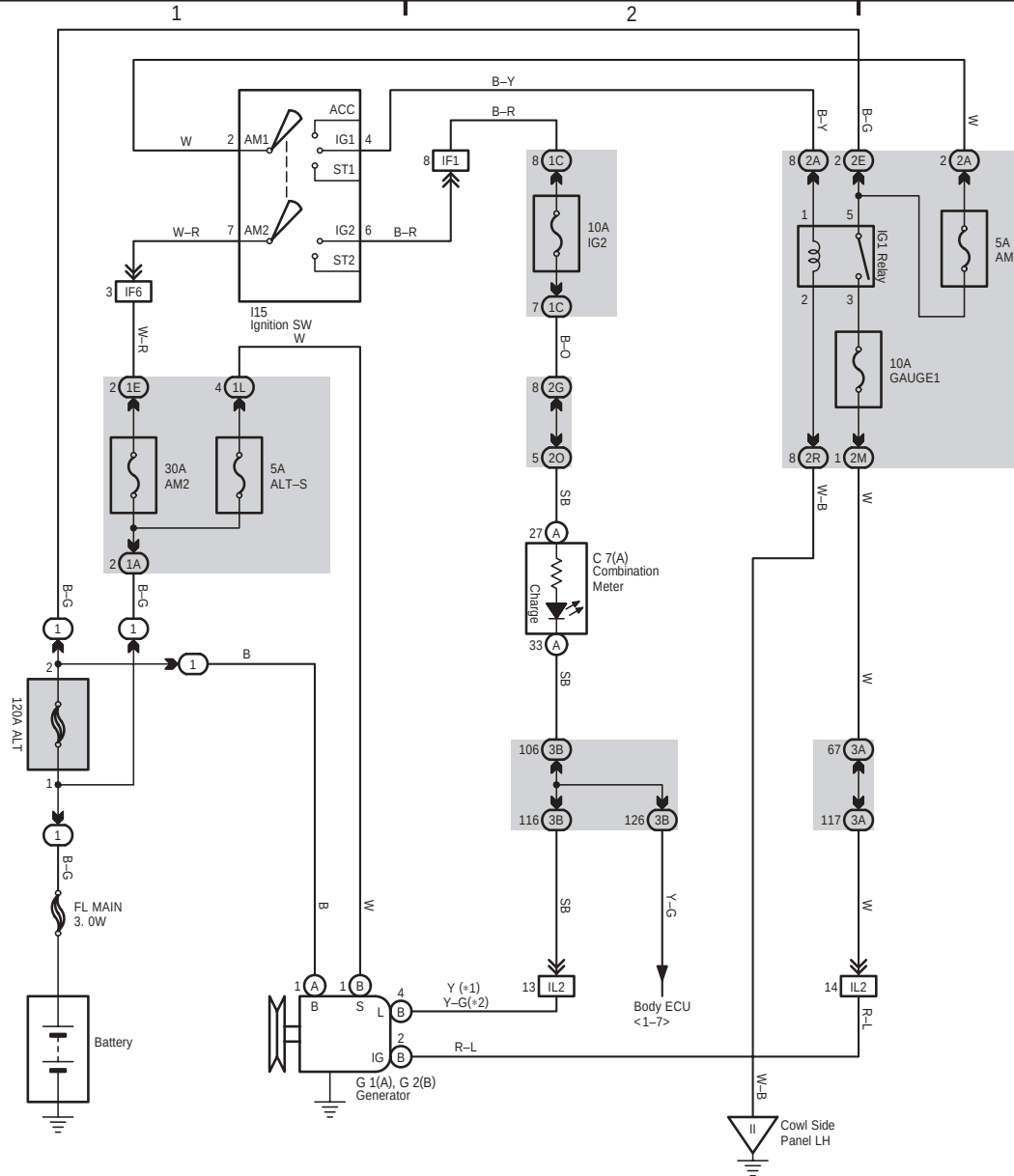
3 CAMRY



4 CAMRY

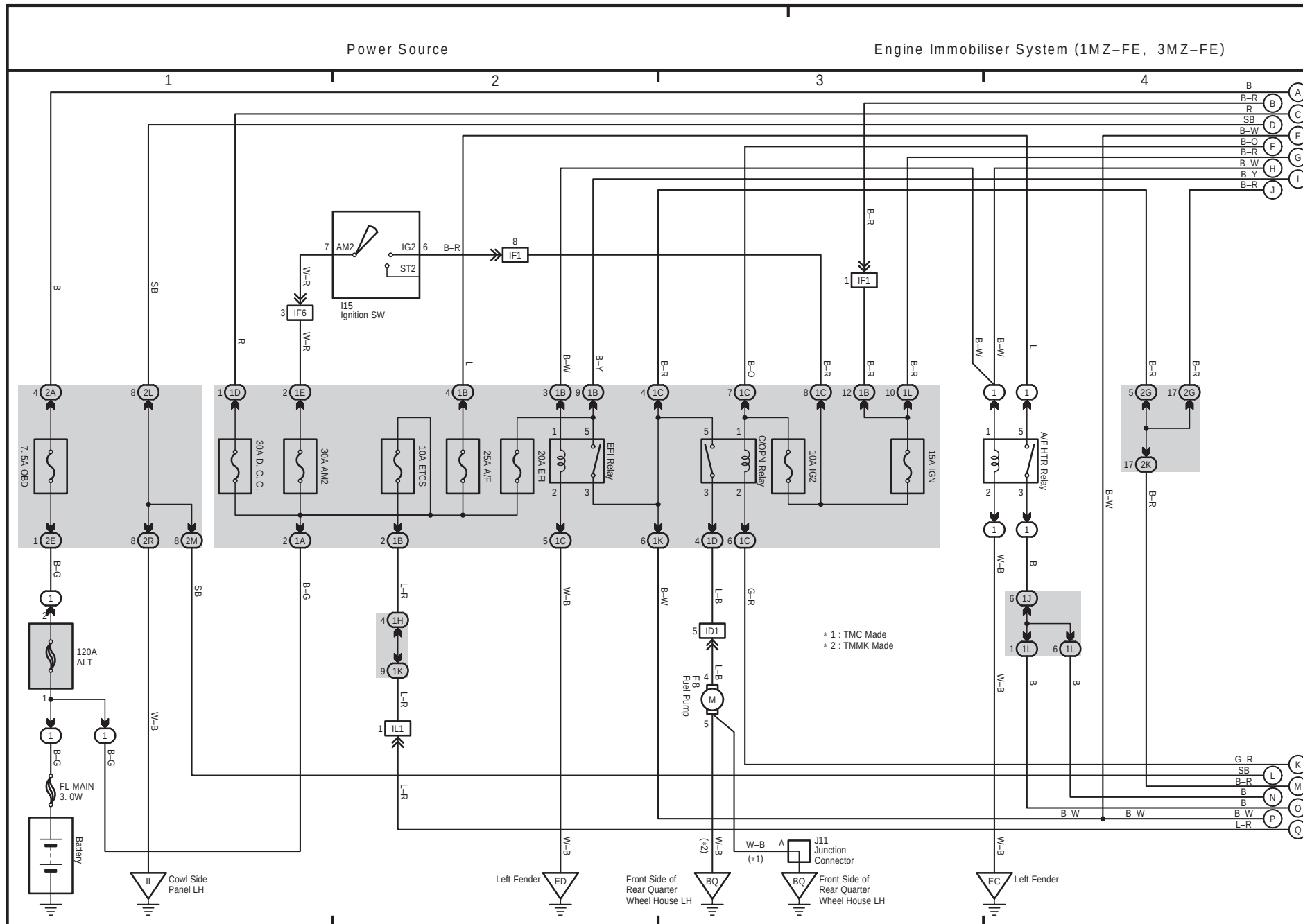
Power Source

Charging

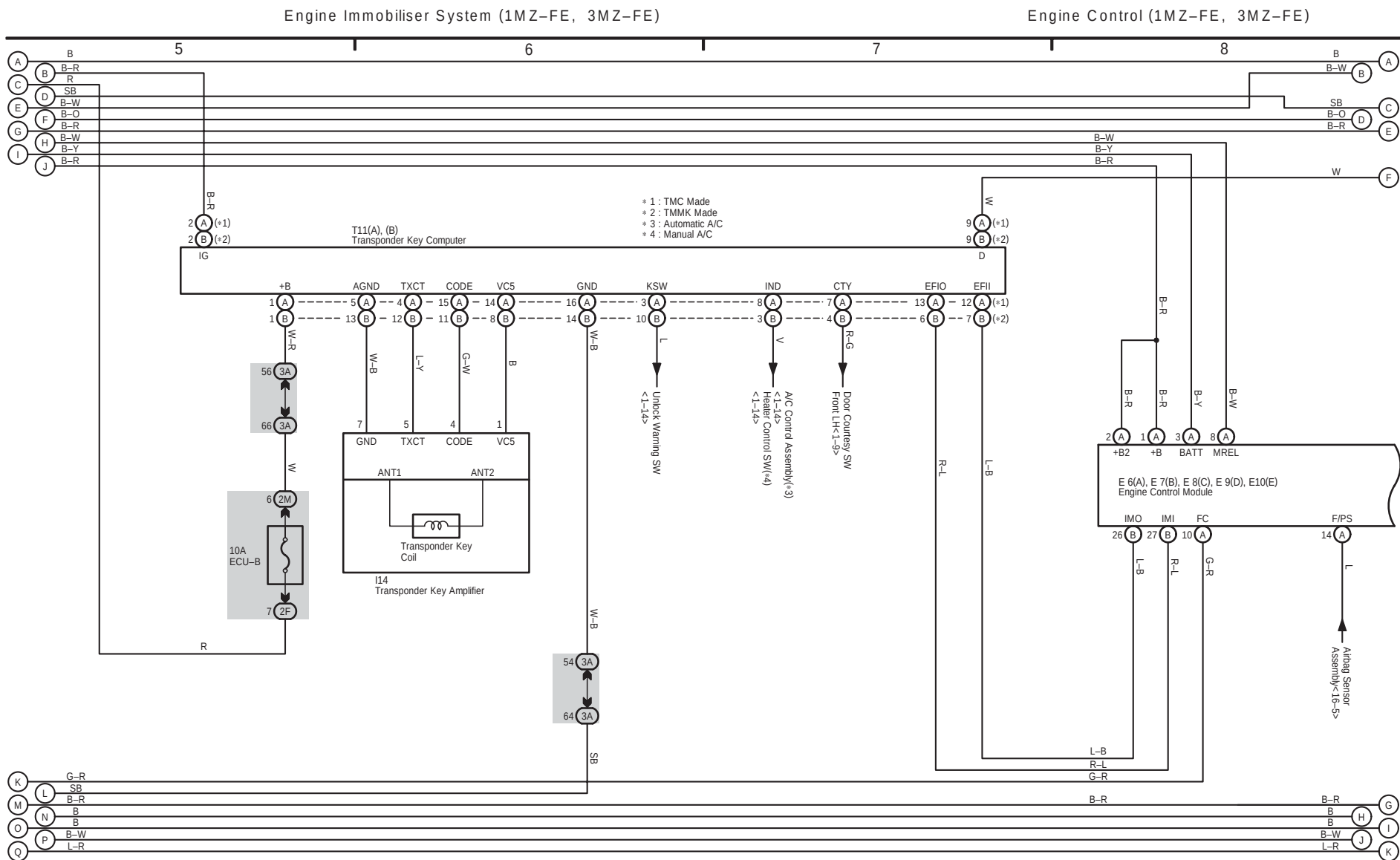


* 1 : TMC Made 1MZ-FE, TMC Made 3MZ-FE
* 2 : Except +1

CAMRY (EM0100U)



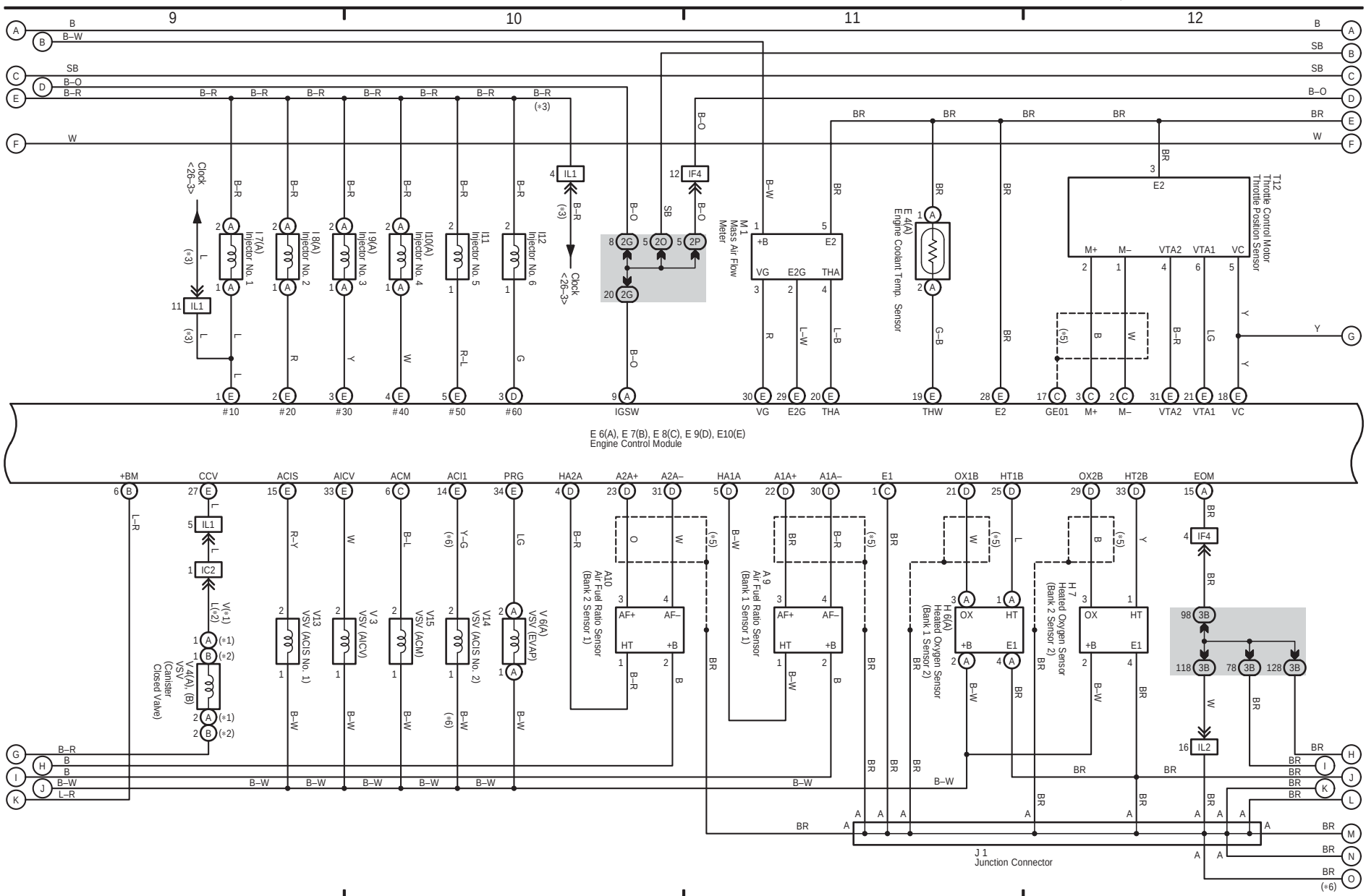
CAMRY (EM0100U)



(Cont. next page)

- * 1 : TMC Made
- * 2 : TMMK Made
- * 3 : Automatic A/C
- * 5 : Shielded
- * 6 : 1MZ-FE

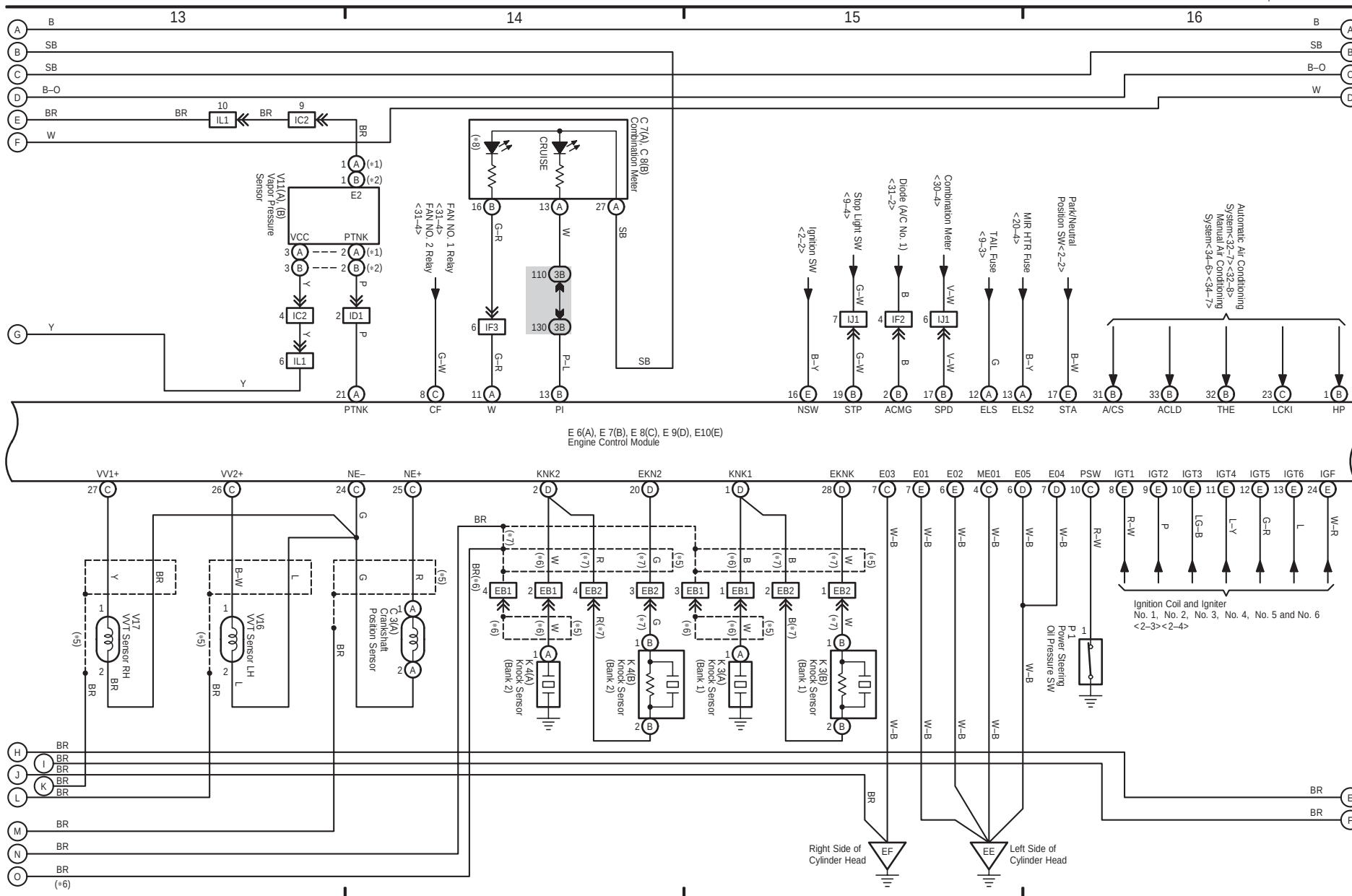
Engine Control (1MZ-FE, 3MZ-FE)



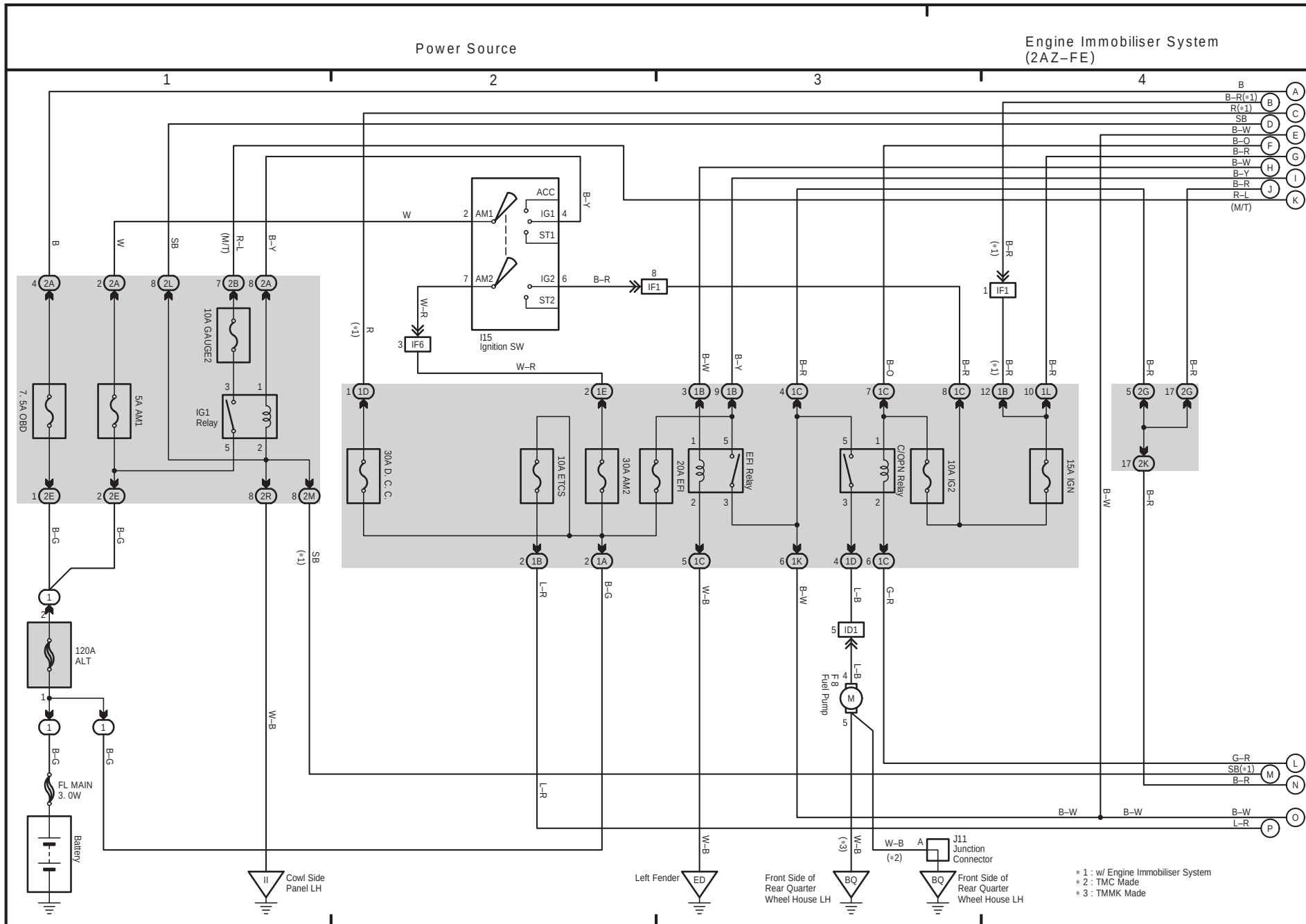
5 CAMRY (Cont' d)

Engine Control (1MZ-FE, 3MZ-FE)

- * 1 : TMC Made
- * 2 : TMMK Made
- * 5 : Shielded
- * 6 : 1MZ-FE
- * 7 : 3MZ-FE
- * 8 : Malfunction Indicator Lamp

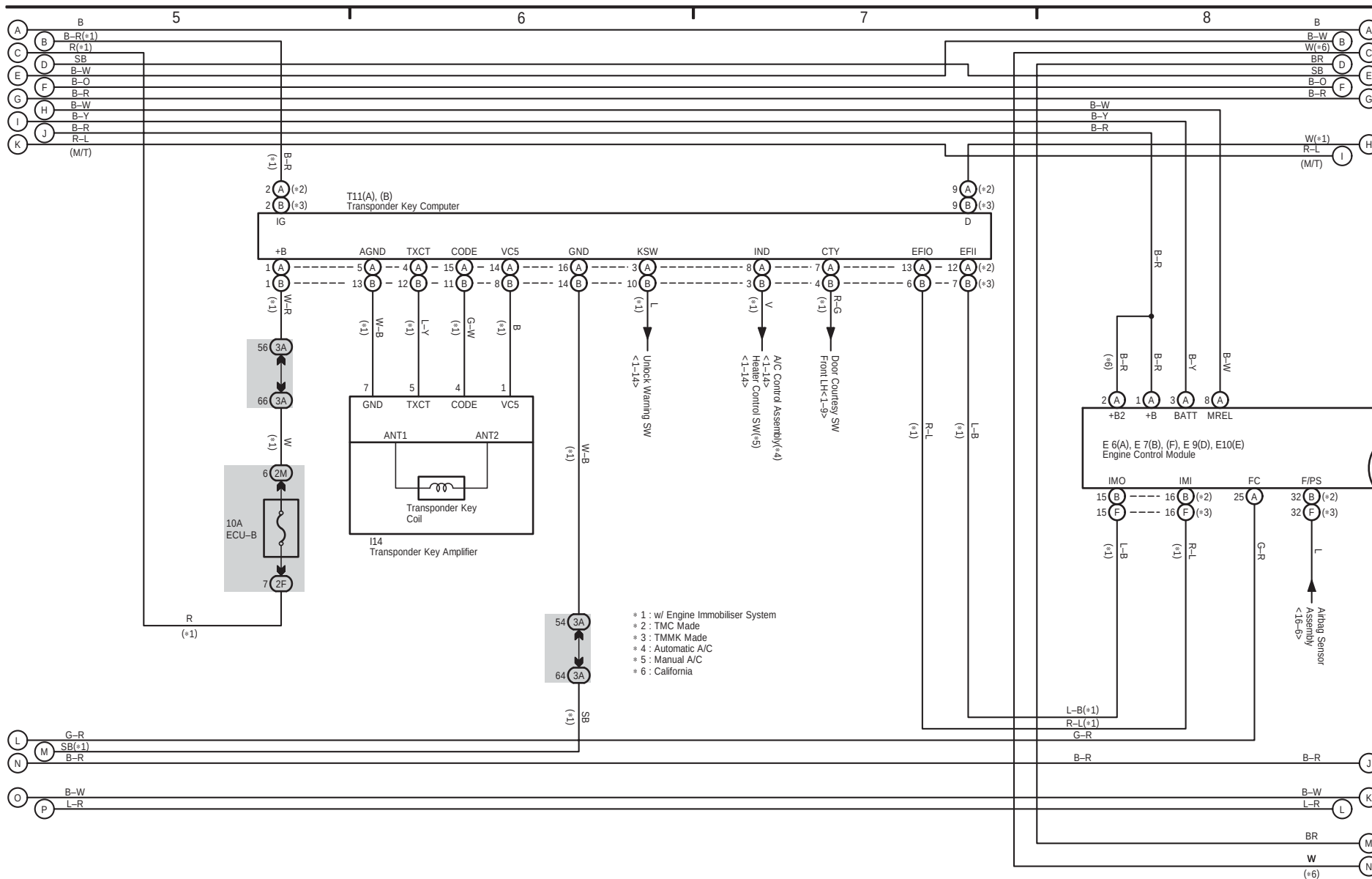


[illegible]



Engine Immobiliser System (2AZ-FE)

Engine Control (2AZ-FE)



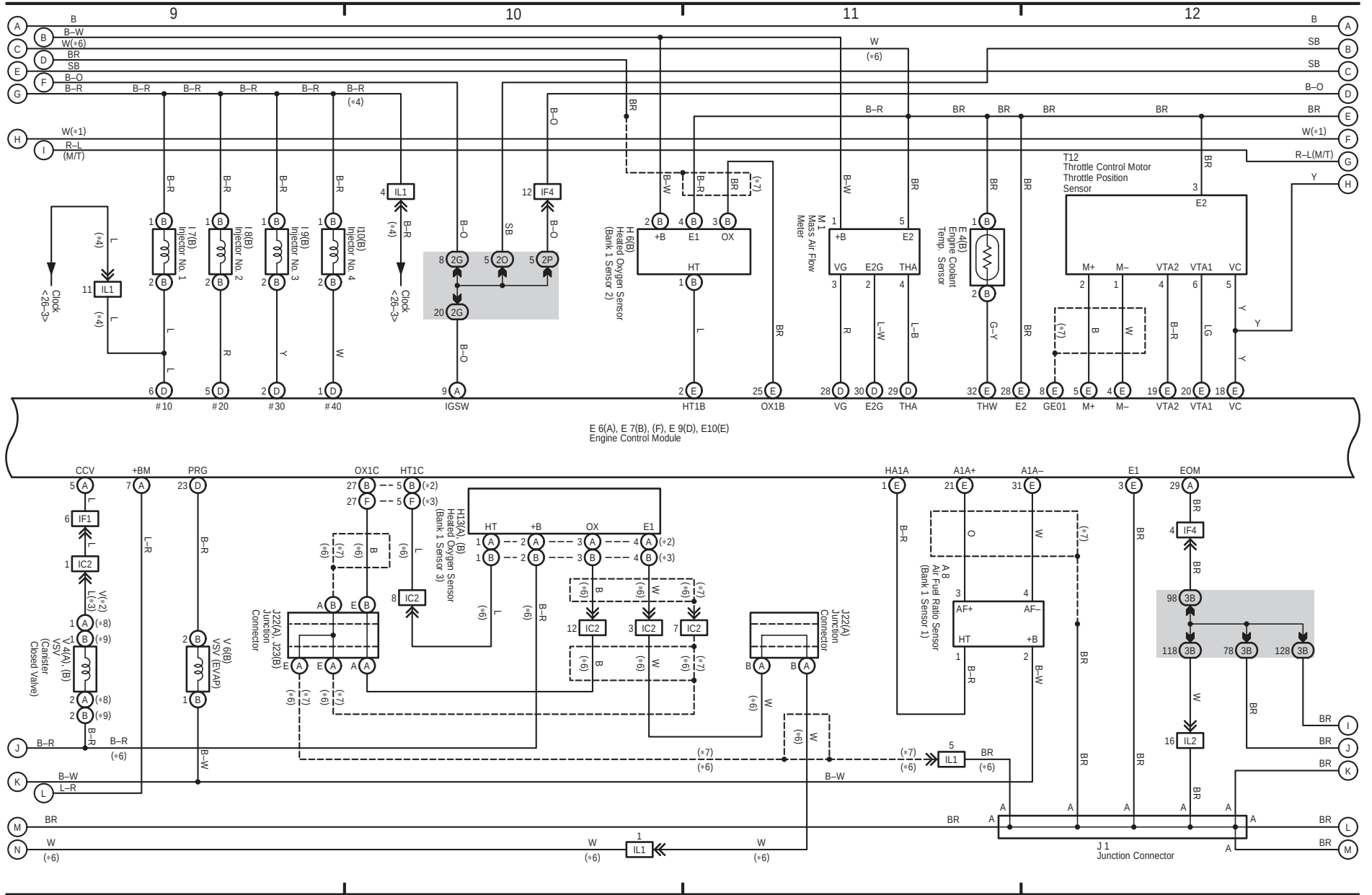
(Cont. next page)

6 CAMRY (Cont' d)

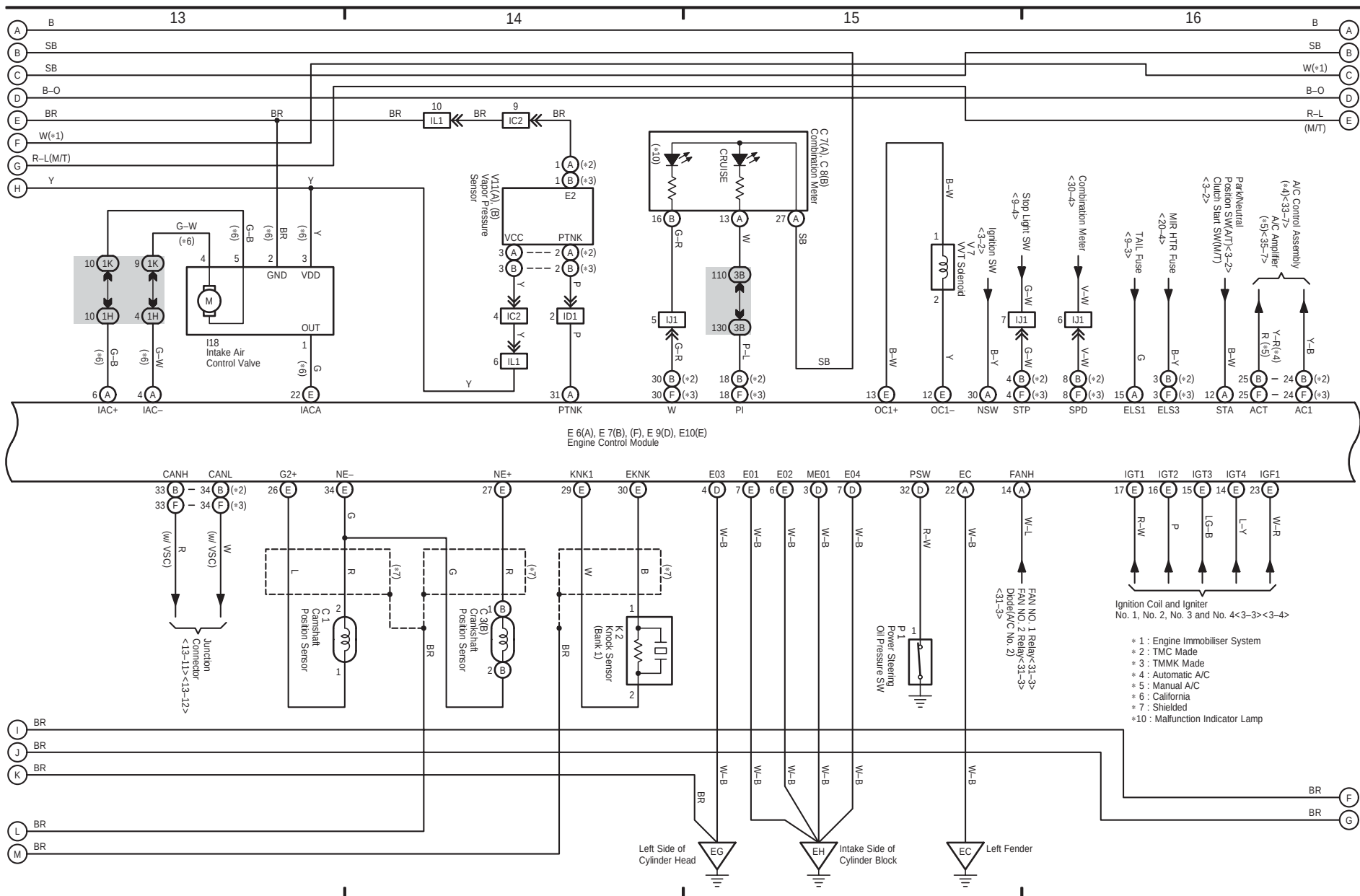
Engine Control (2AZ-FE)

- * 1 : w/ Engine Immobiliser System
- * 2 : TMC Made
- * 3 : TMMK Made
- * 4 : Automatic A/C

- * 6 : California
- * 7 : Shielded
- * 8 : TMMK Made California, TMC Made
- * 9 : TMMK Made Except California

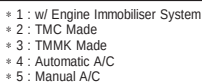


Engine Control (2AZ-FE)

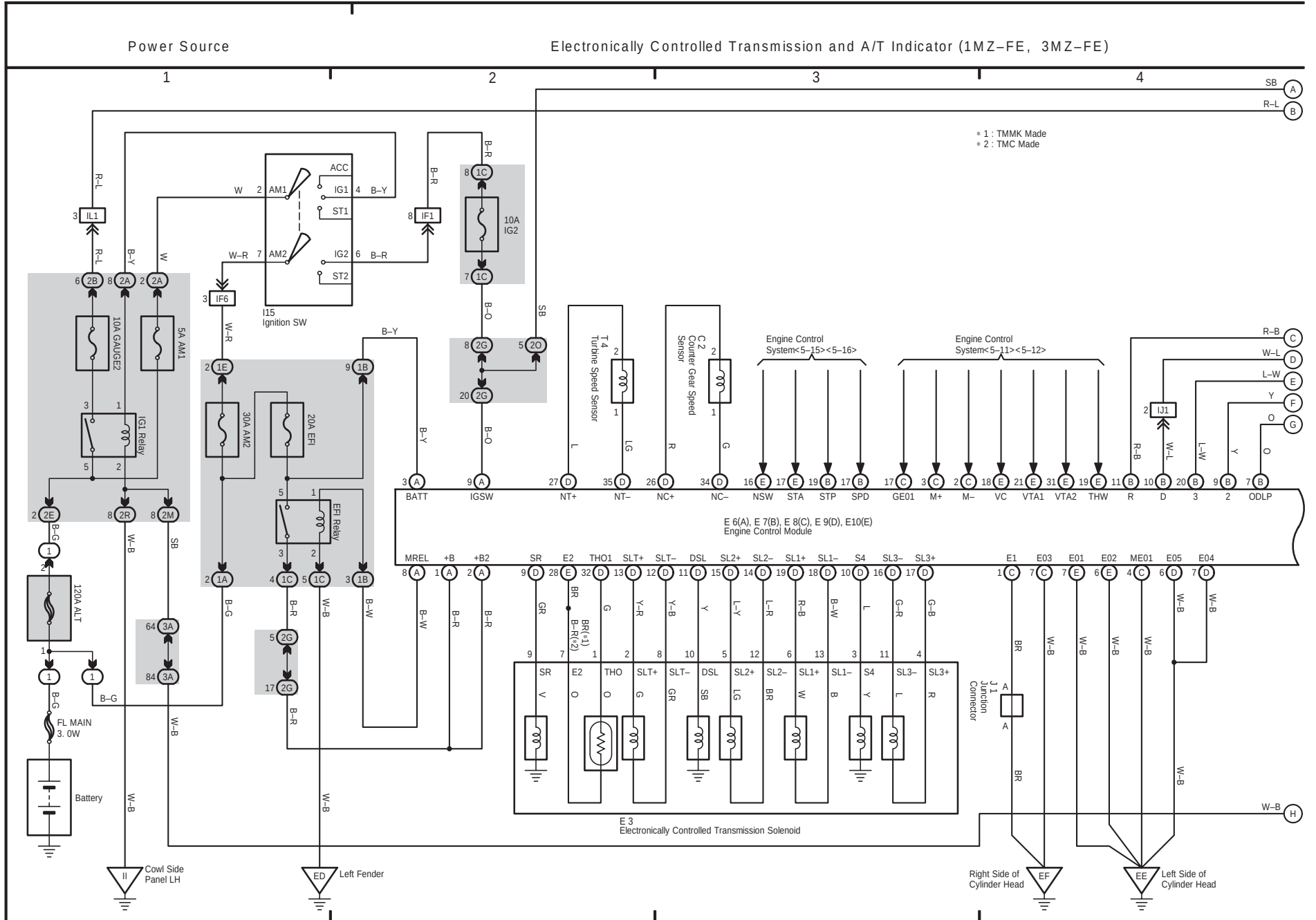


Engine Control (2AZ-FE)

Cruise Control (2AZ-FE)

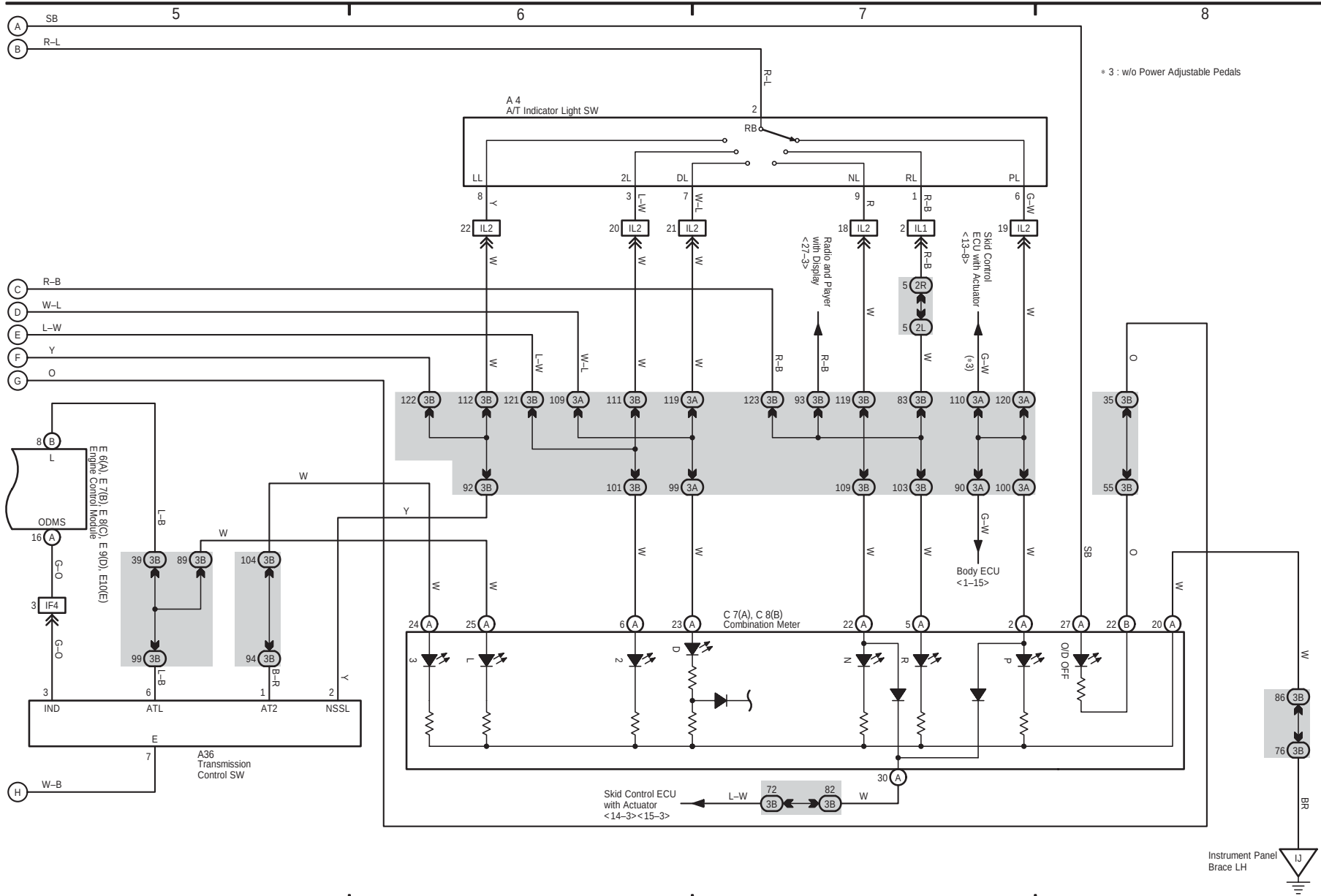


OVERALL ELECTRICAL WIRING DIAGRAM



7 CAMRY (Cont' d)

Electronically Controlled Transmission and A/T Indicator (1MZ-FE, 3MZ-FE)

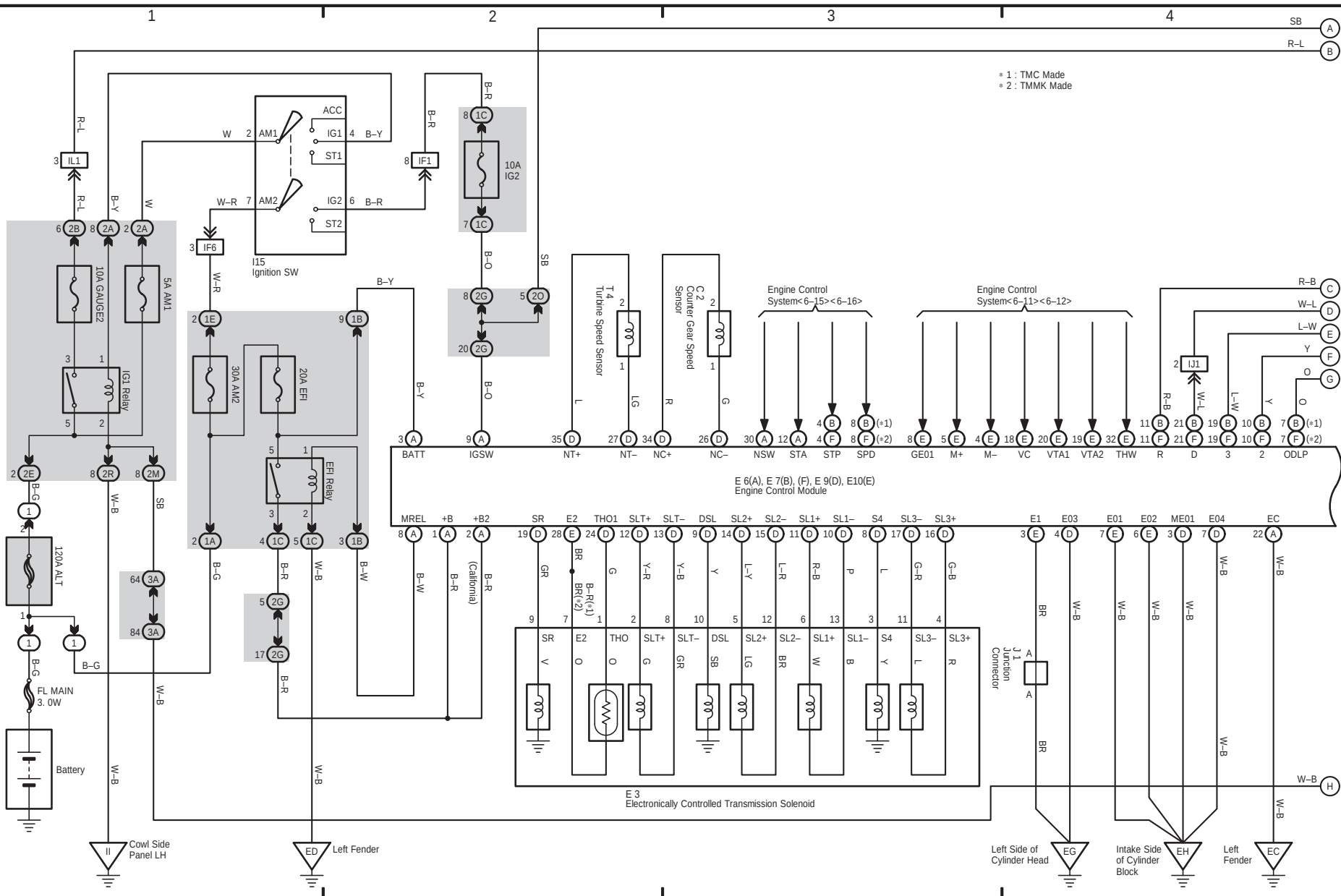


(Cont. next page)

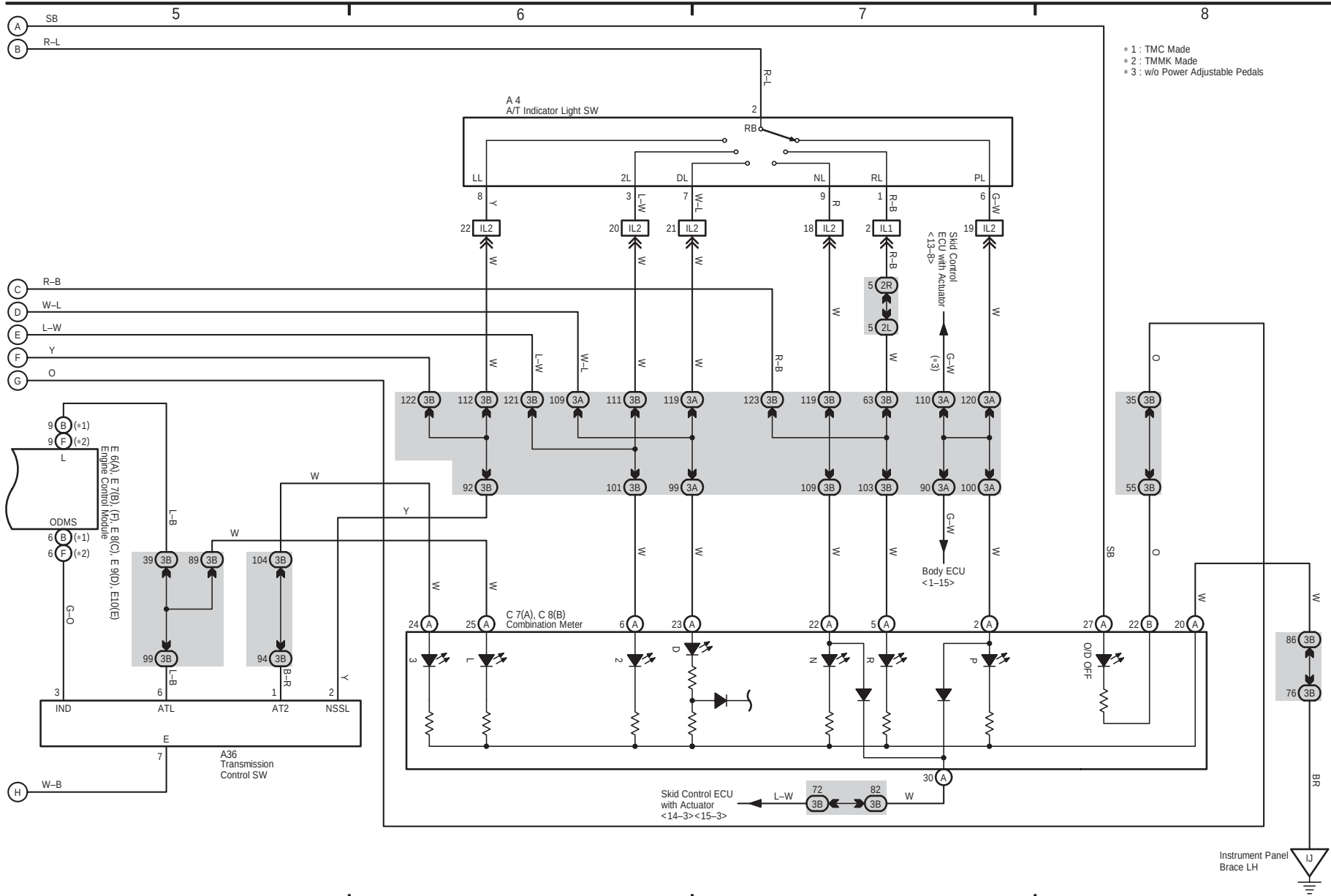
8 CAMRY

Power Source

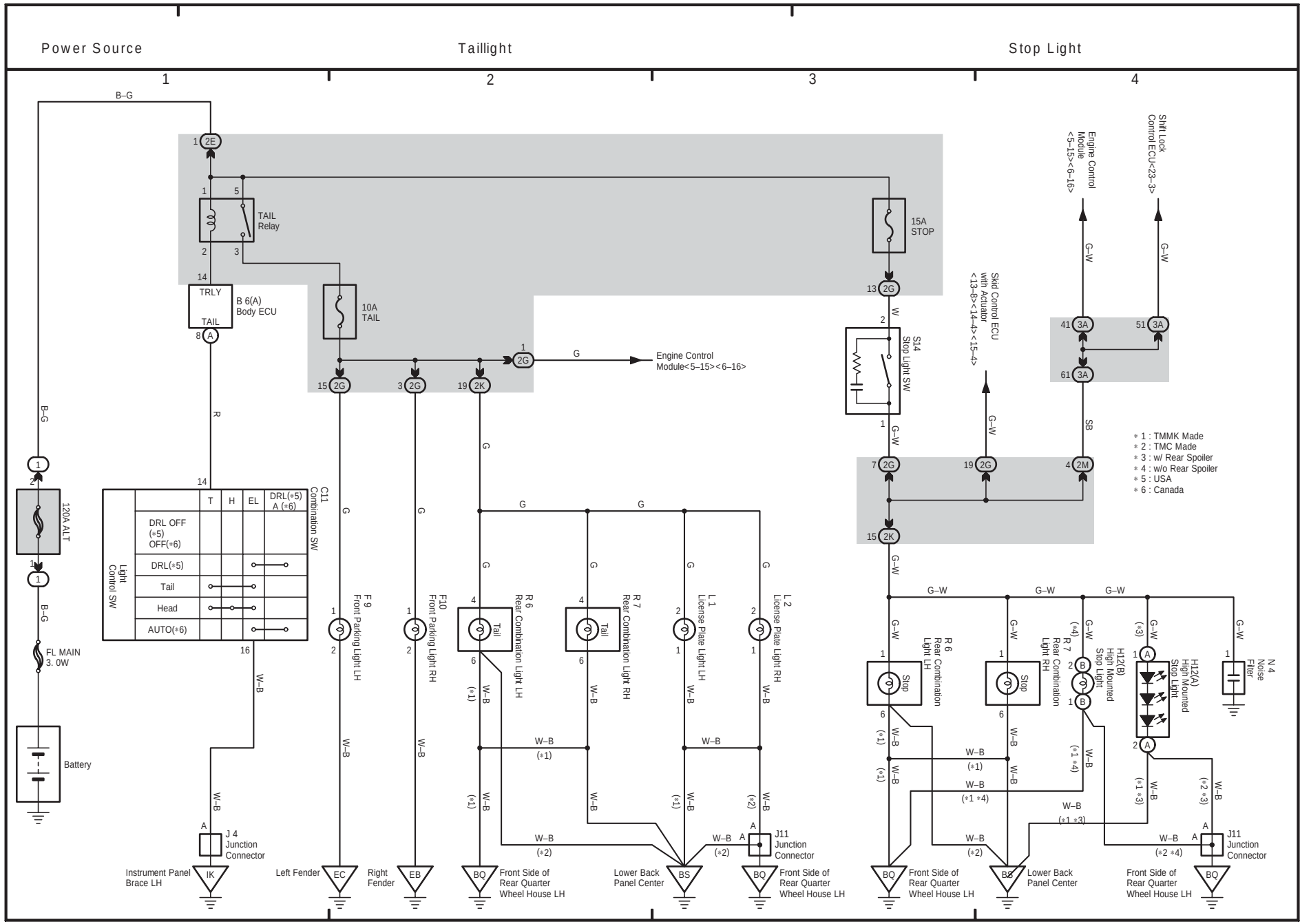
Electronically Controlled Transmission and A/T Indicator (2AZ-FE)

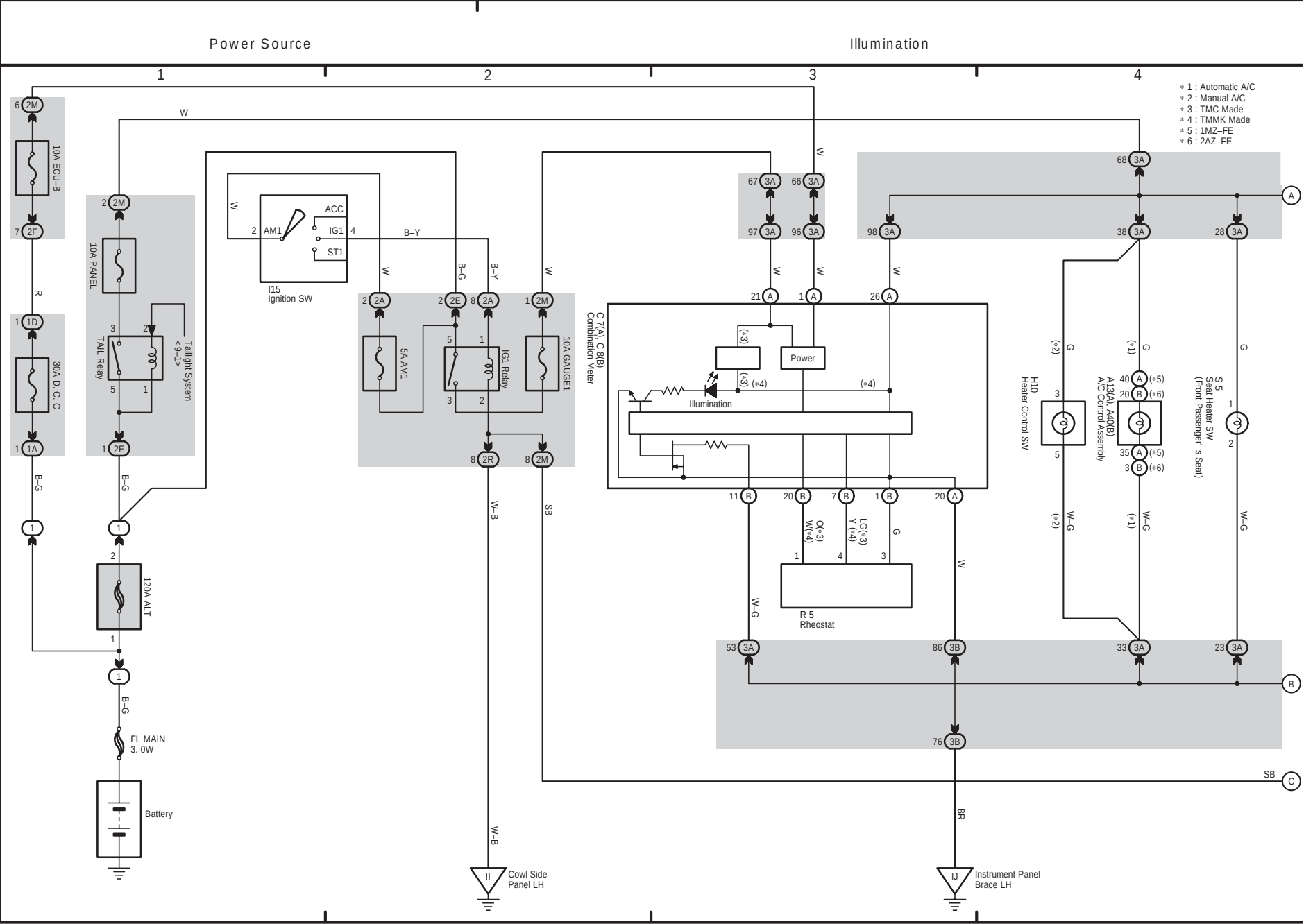


Electronically Controlled Transmission and A/T Indicator (2AZ-FE)

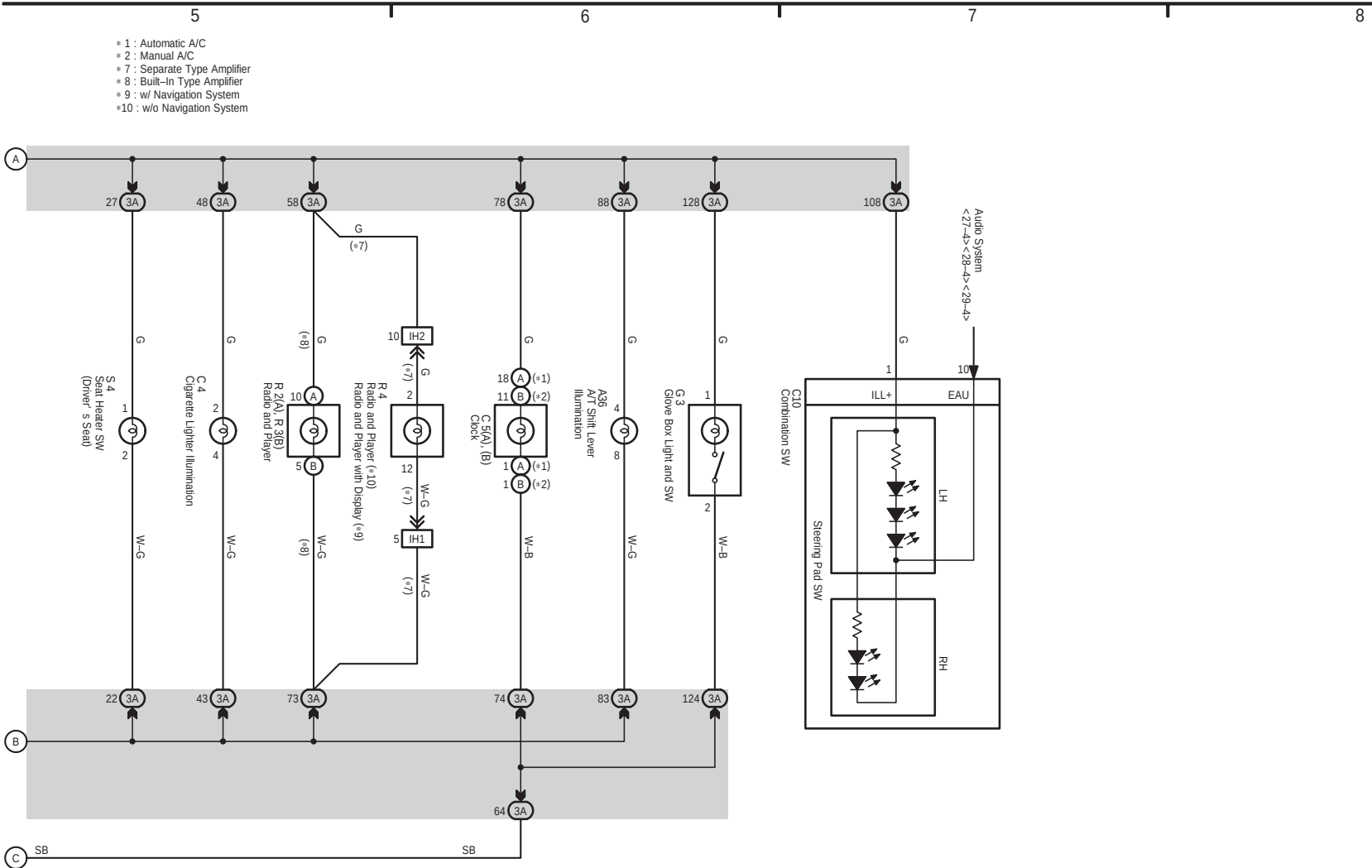


9 CAMRY



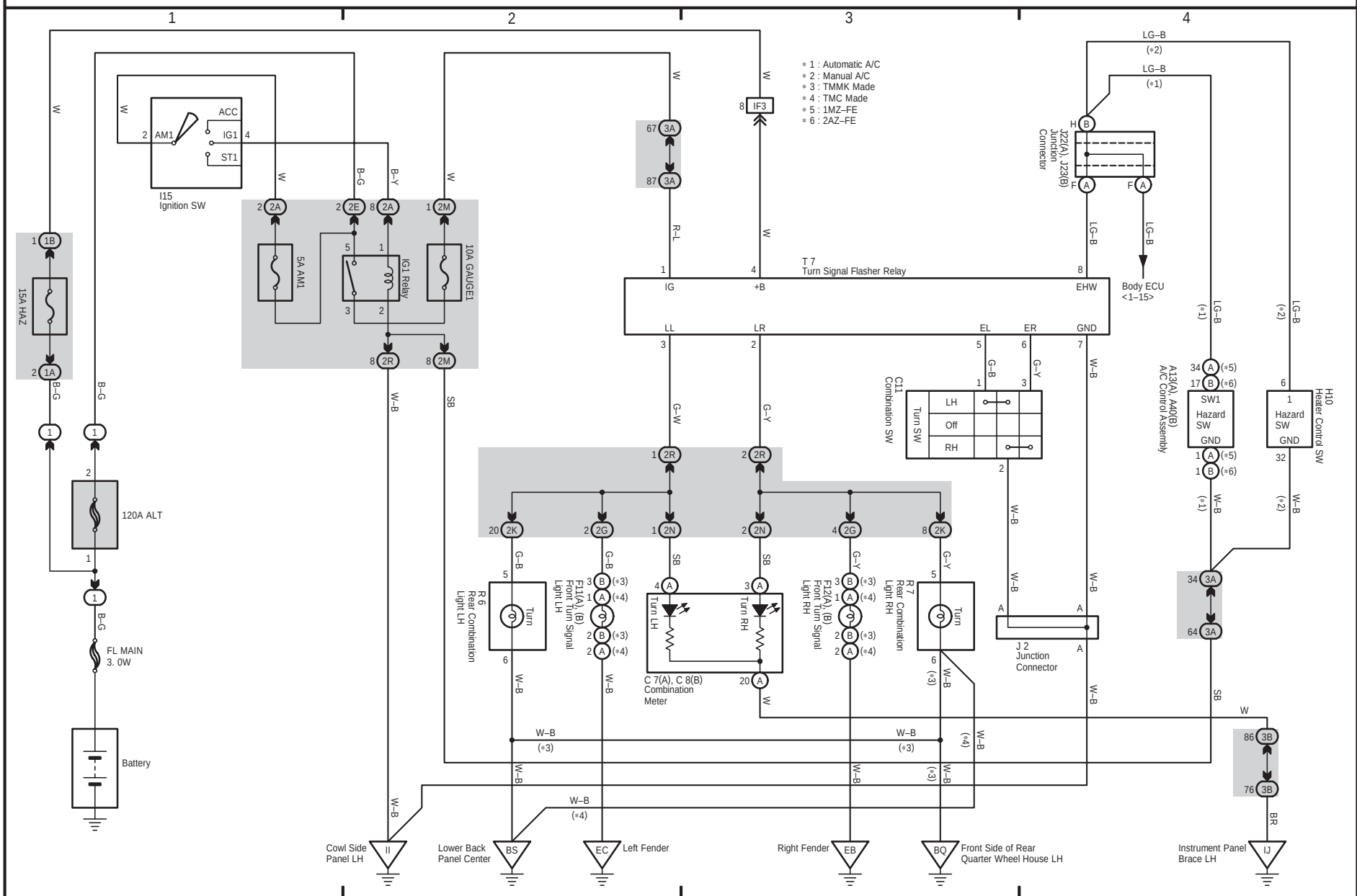


Illumination



CAMRY (EM0100U)

Turn Signal and Hazard Warning Light

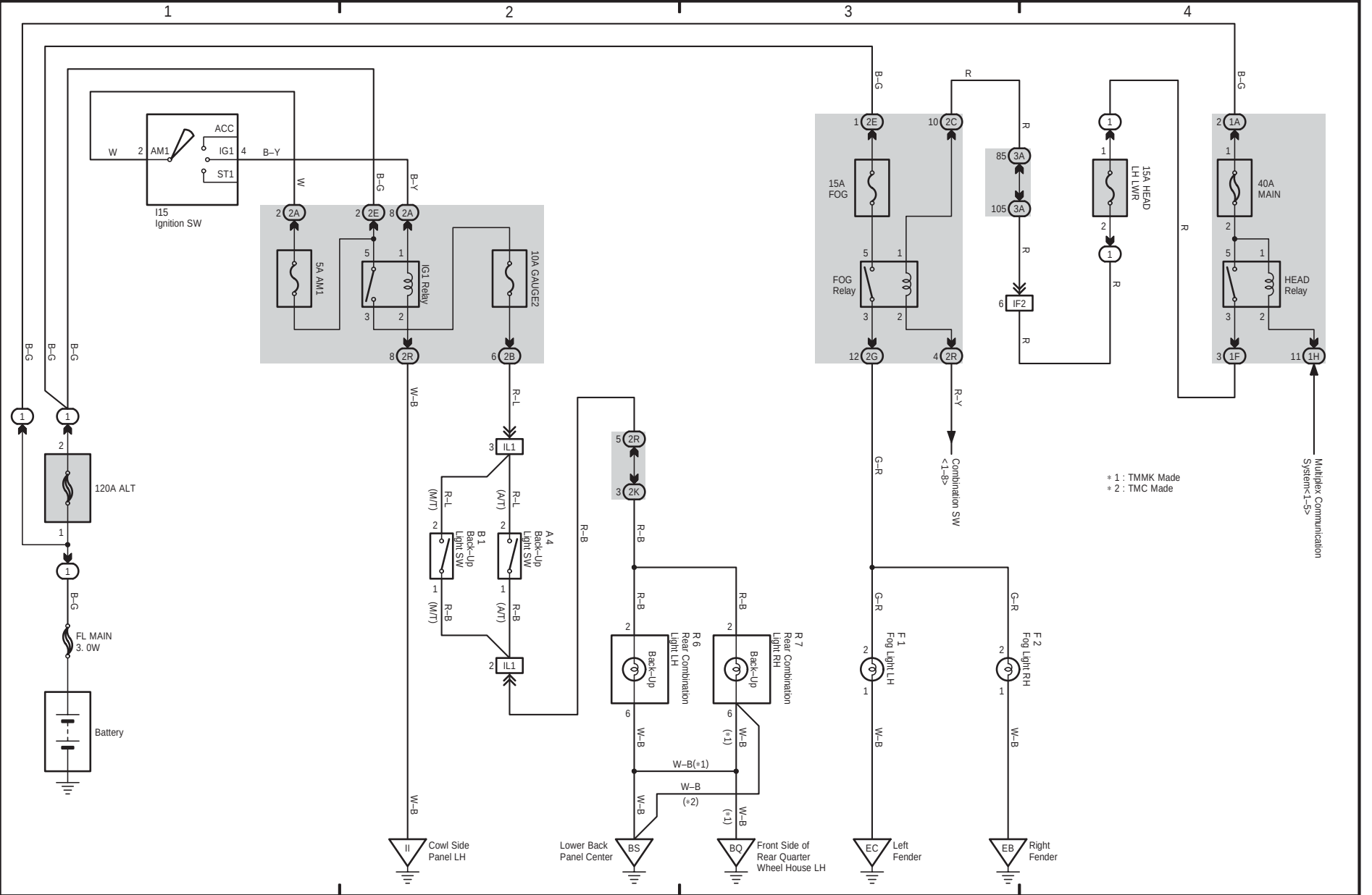


12 CAMRY

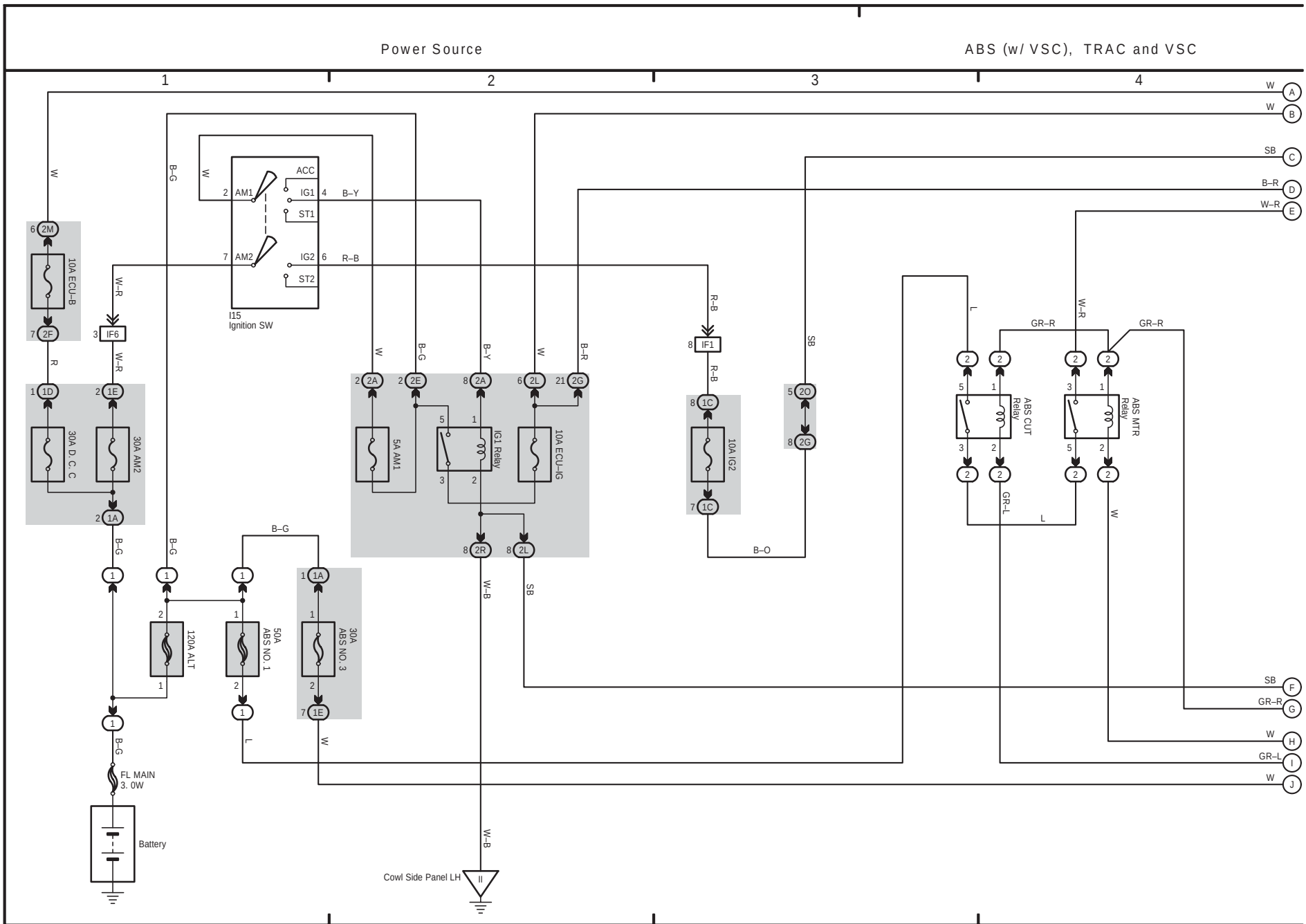
Power Source

Back-Up Light

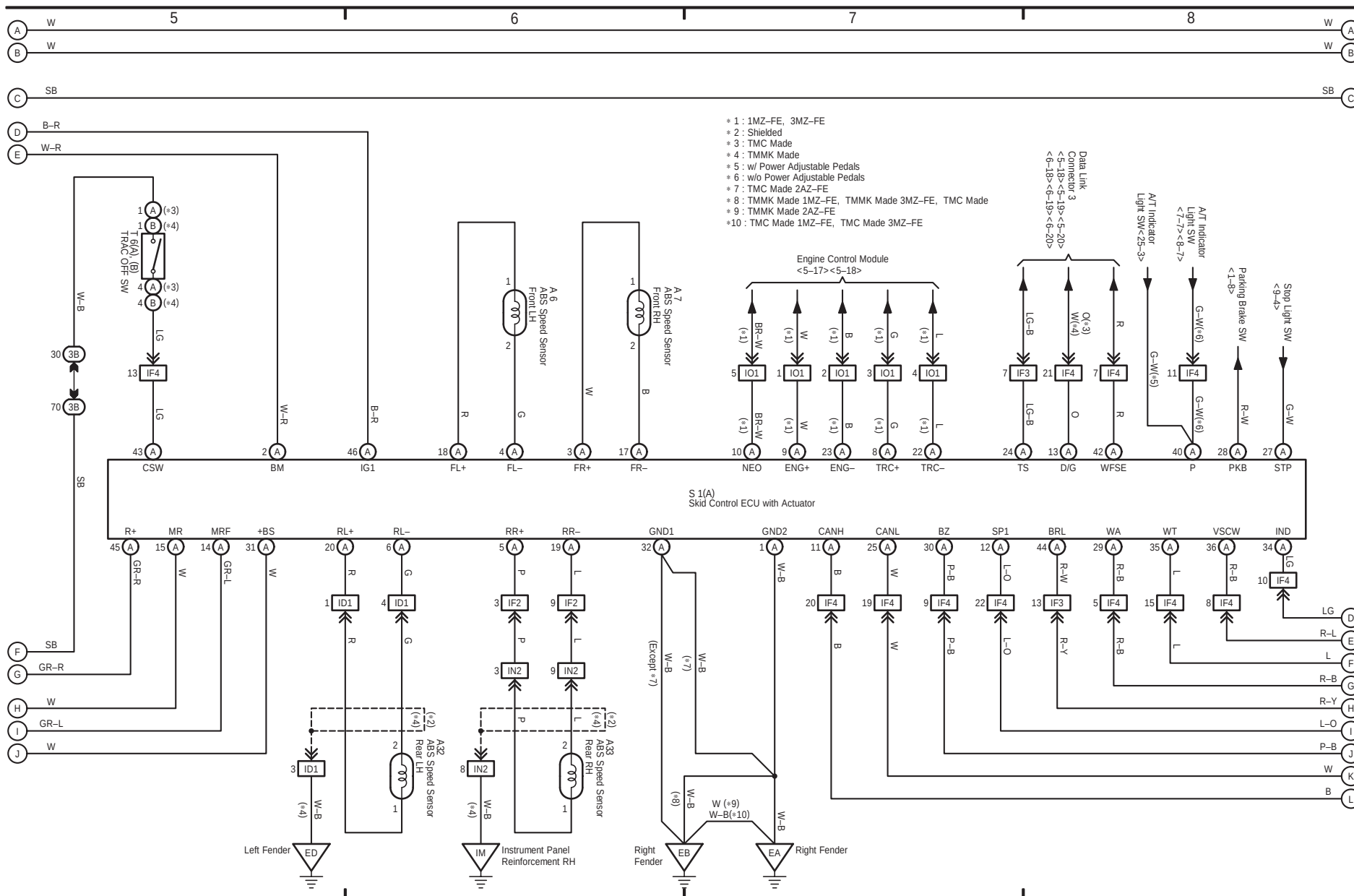
Fog Light



CAMRY (EM0100U)

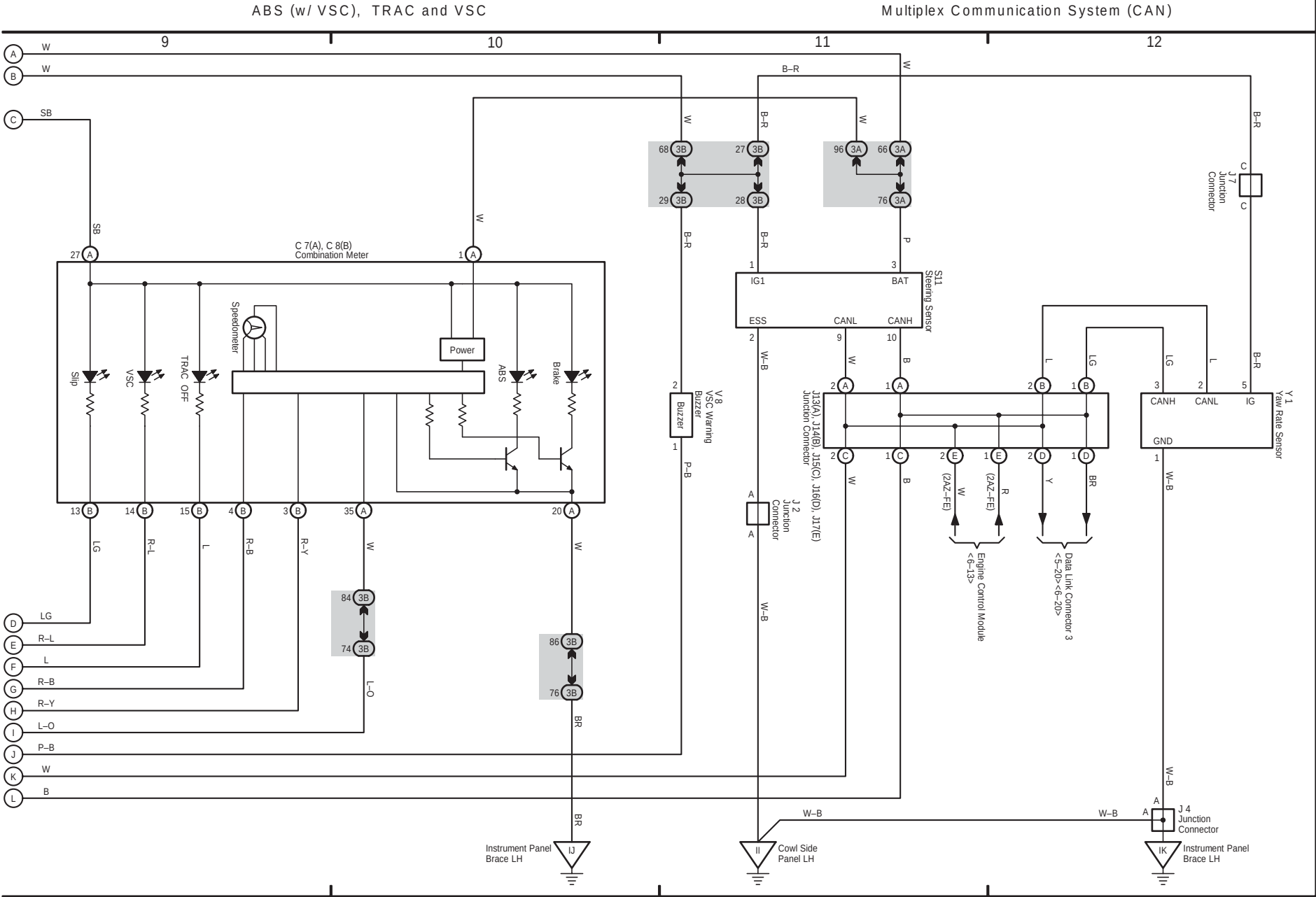


ABS (w/ VSC), TRAC and VSC

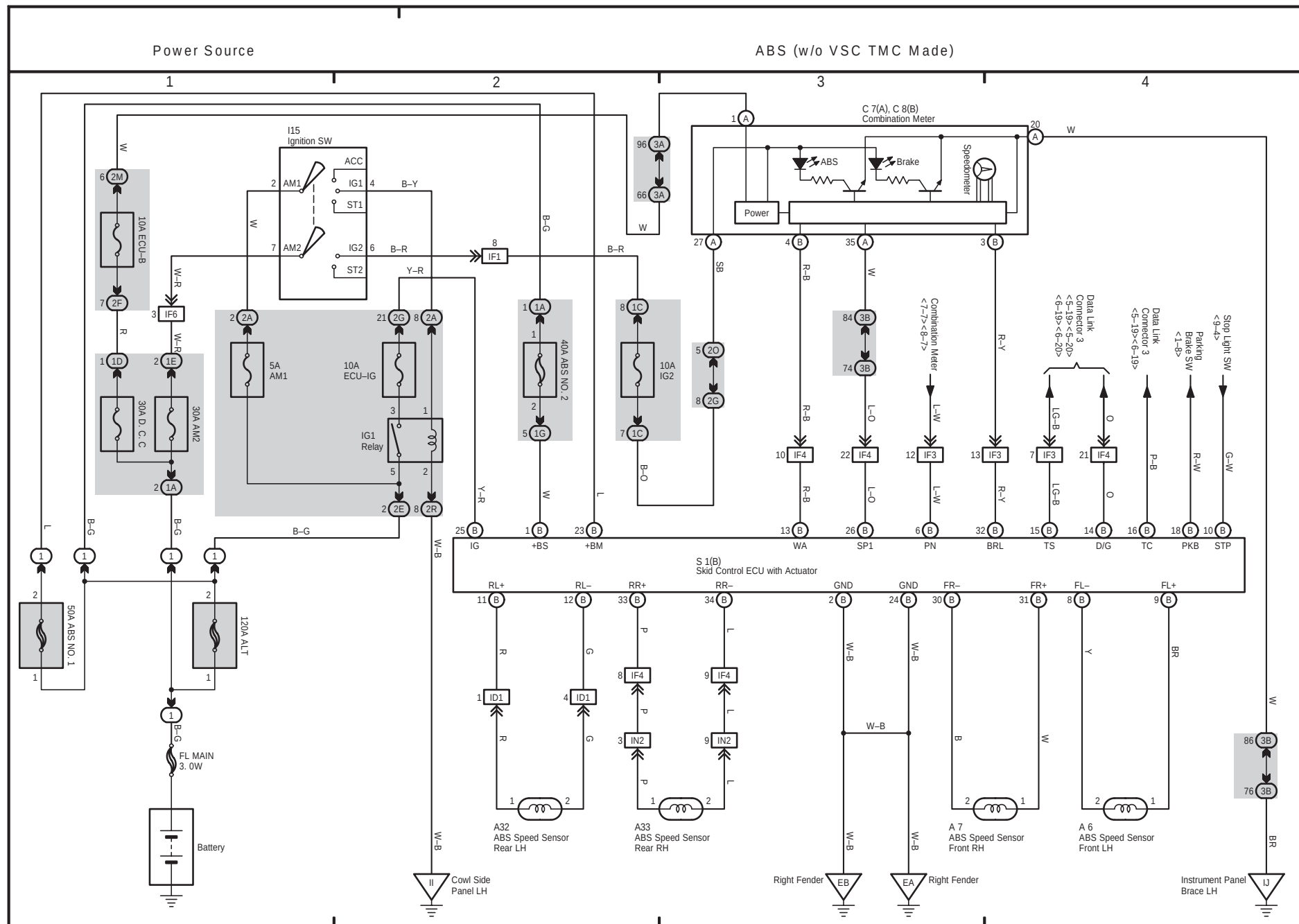


CAMRY (EM0100U)

M OVERALL ELECTRICAL WIRING DIAGRAM

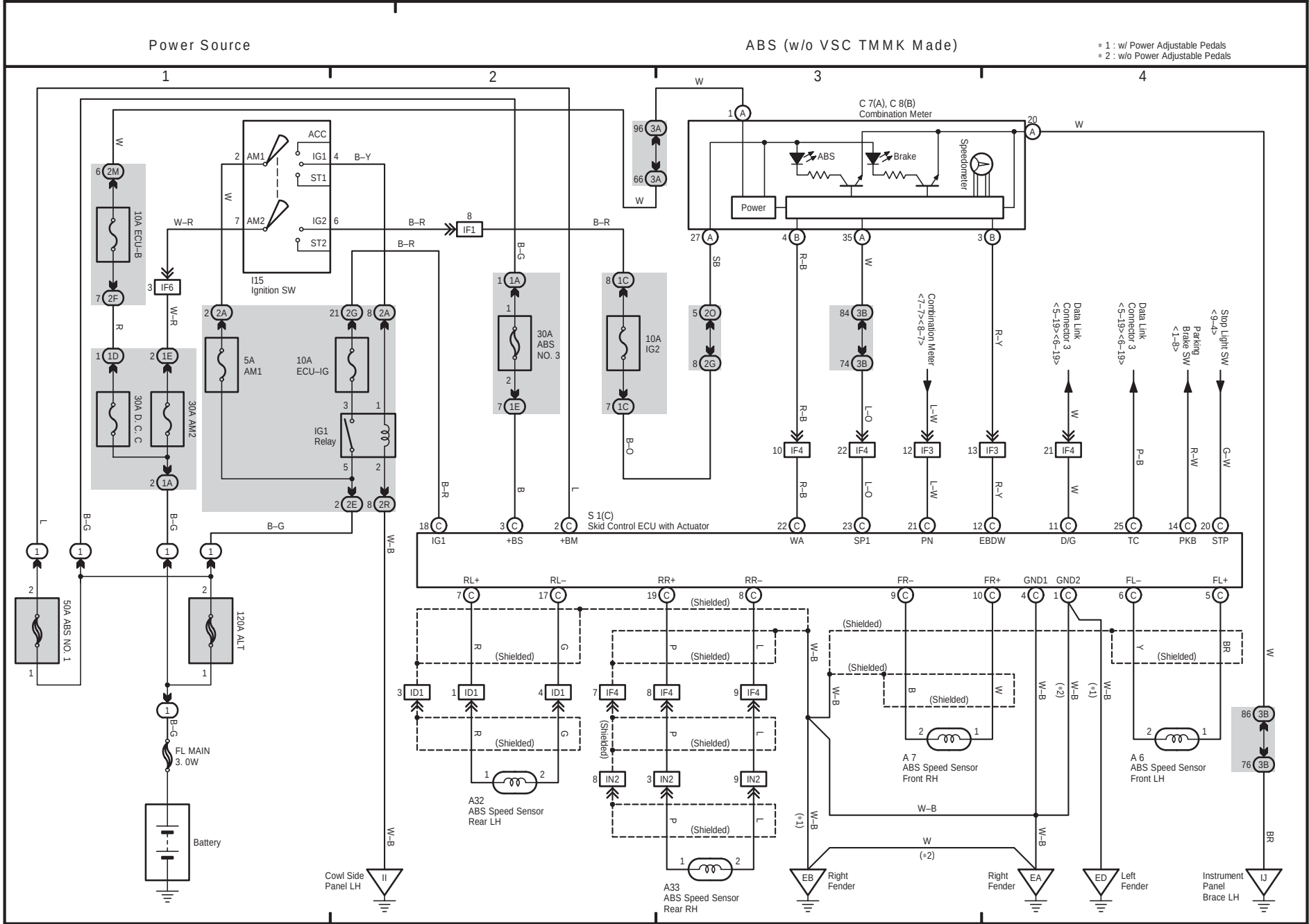


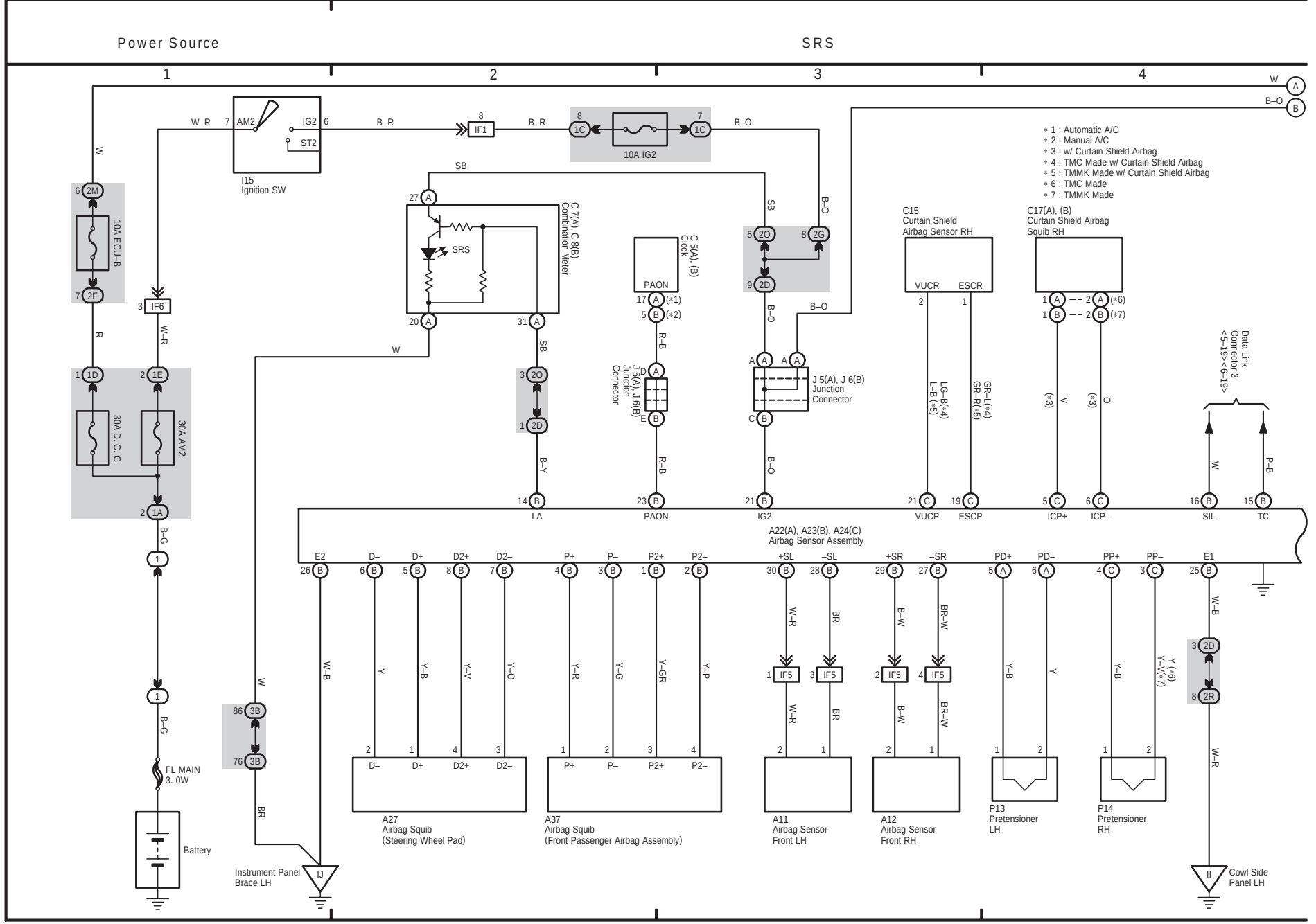
13 CAMRY (Cont' d)

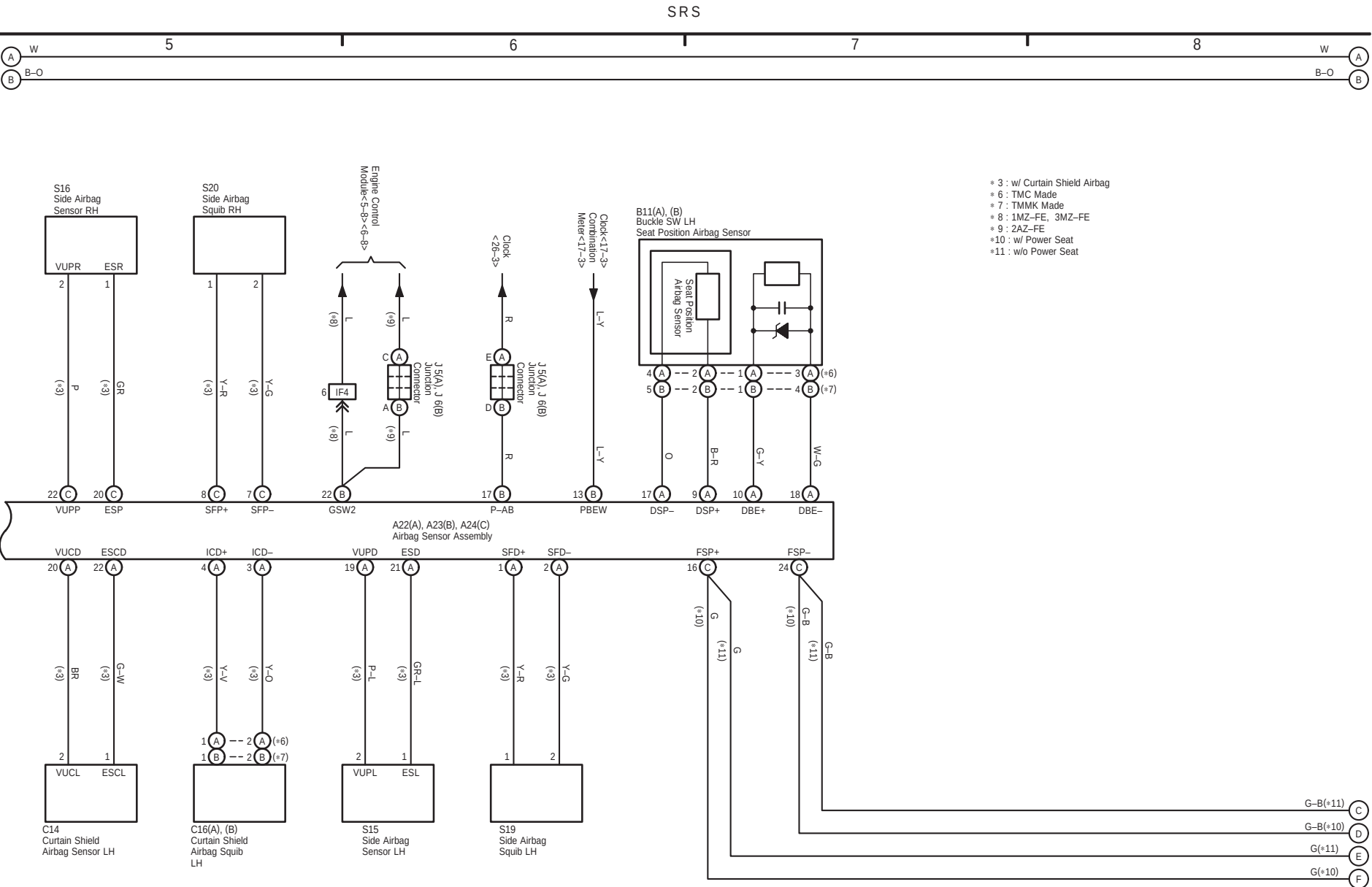


15 CAMRY

M OVERALL ELECTRICAL WIRING DIAGRAM



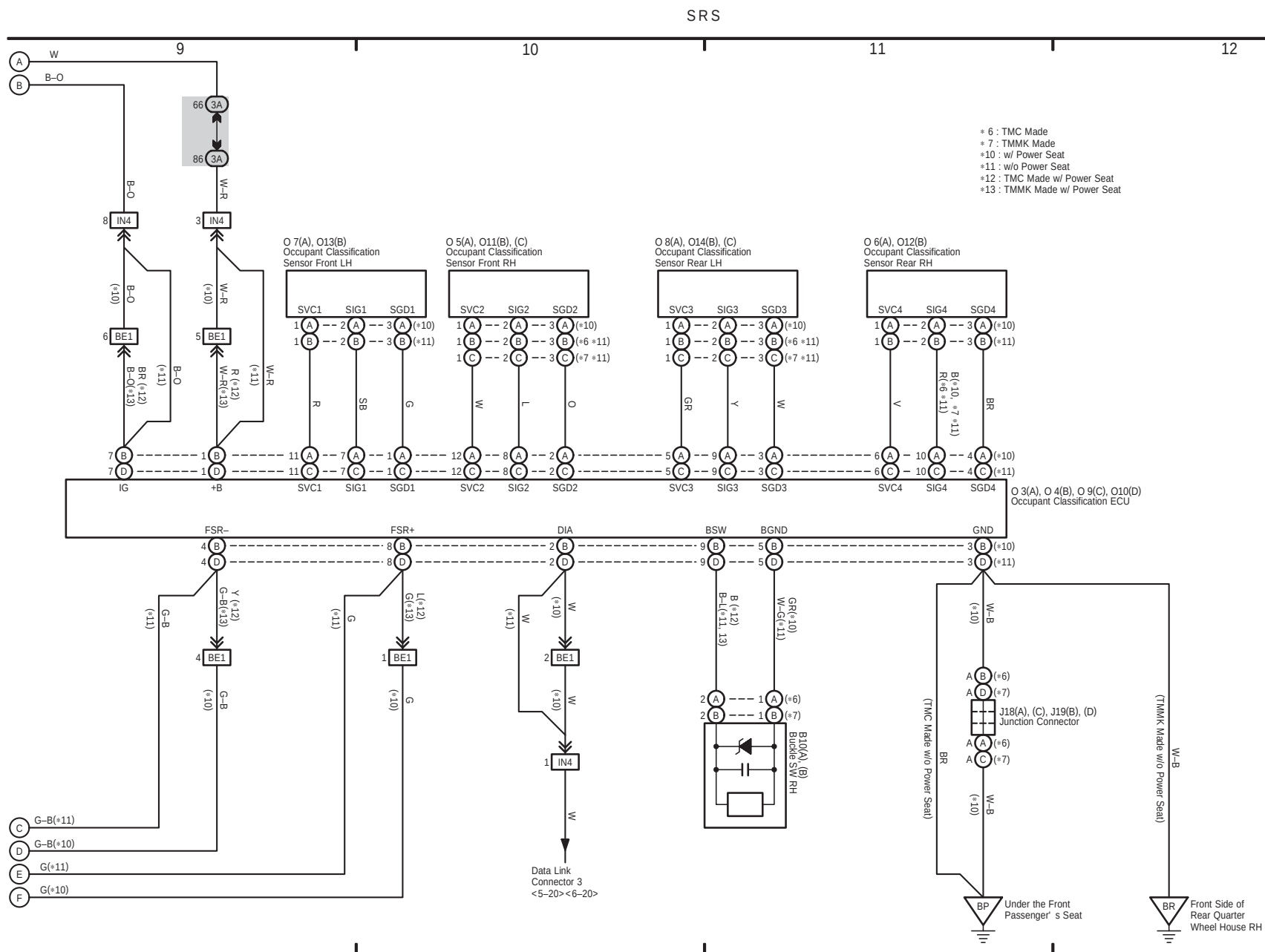


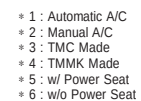


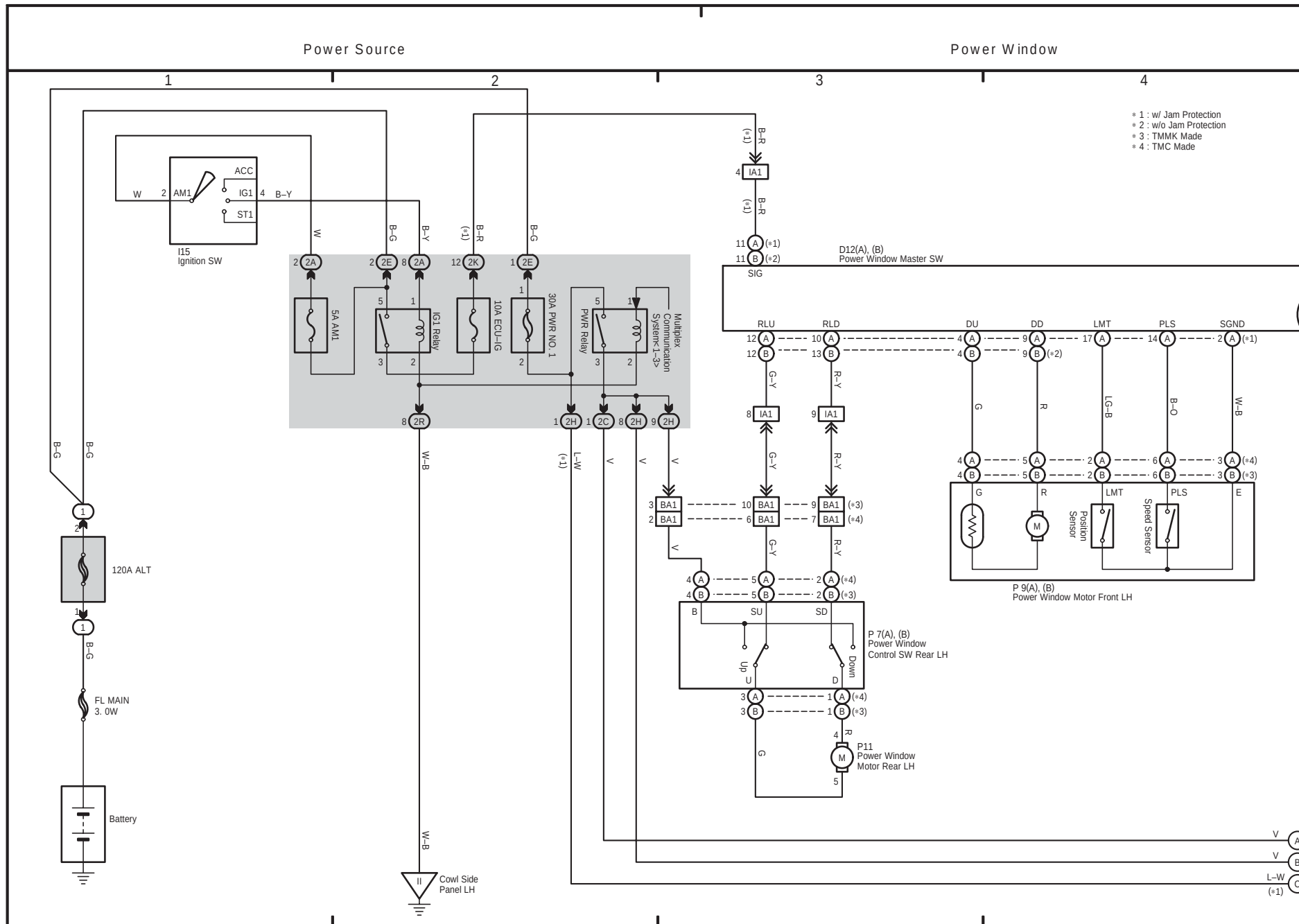
CAMRY (EM0100U)

16 CAMRY (Cont' d)

CAMRY (EM0100U)

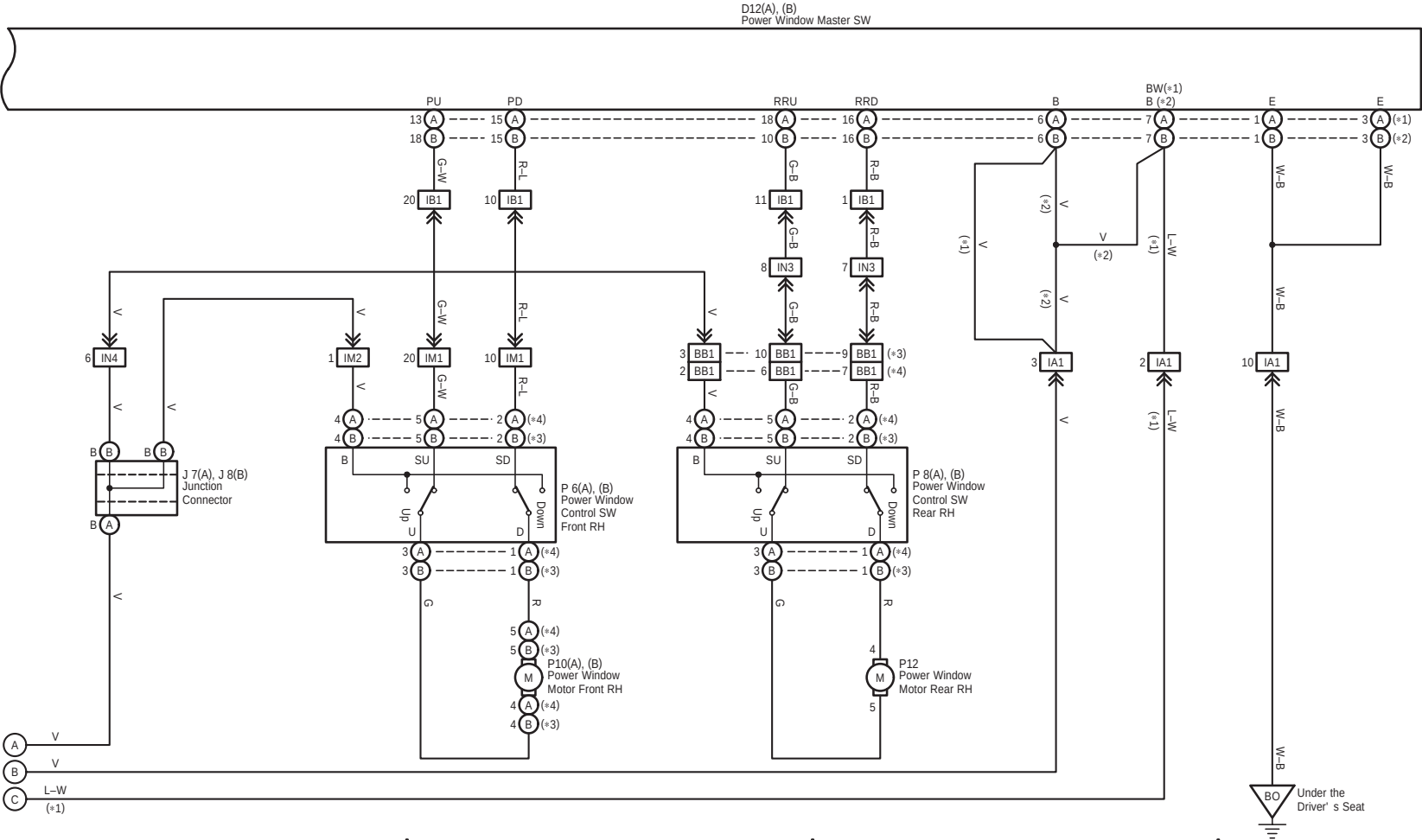




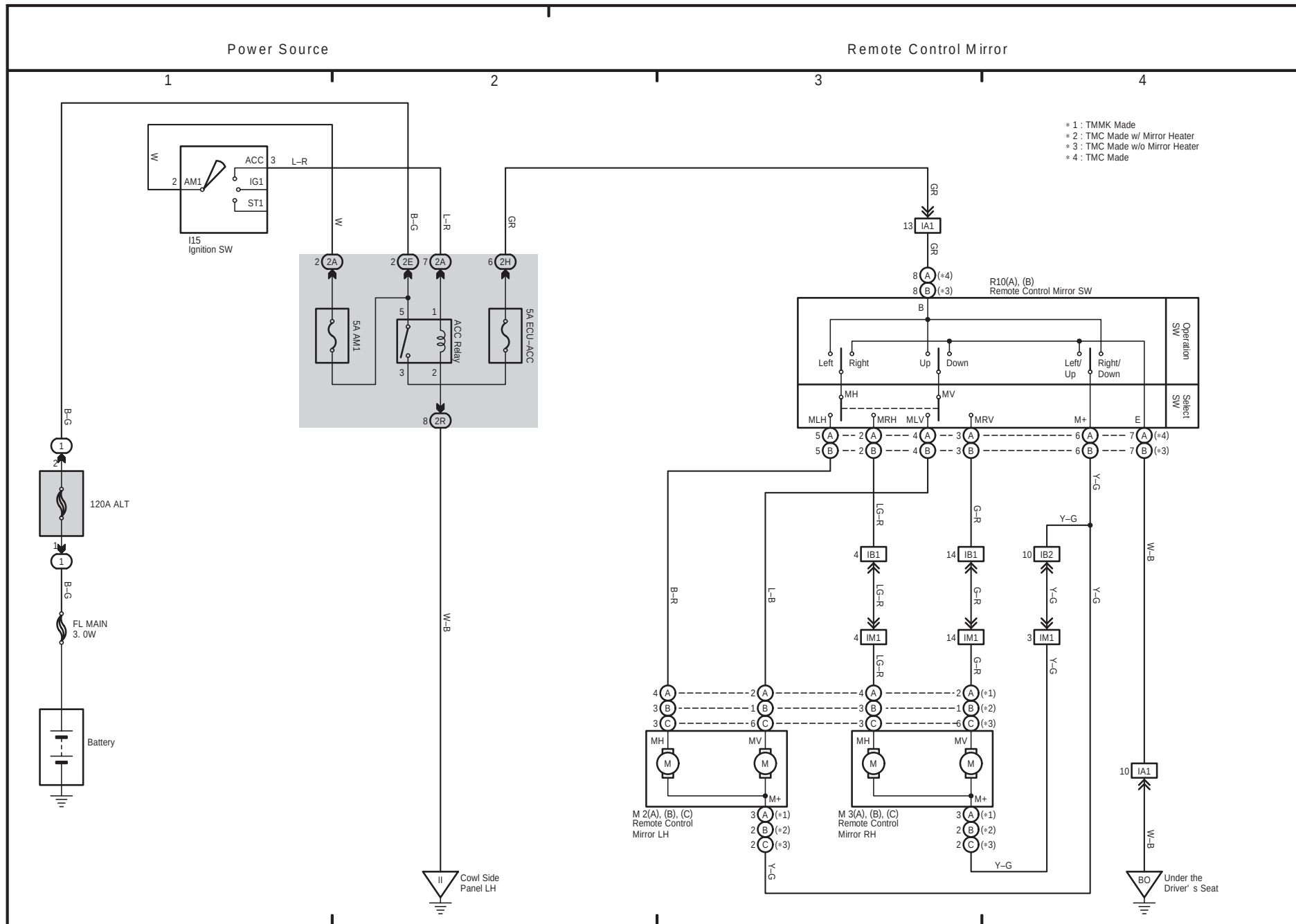


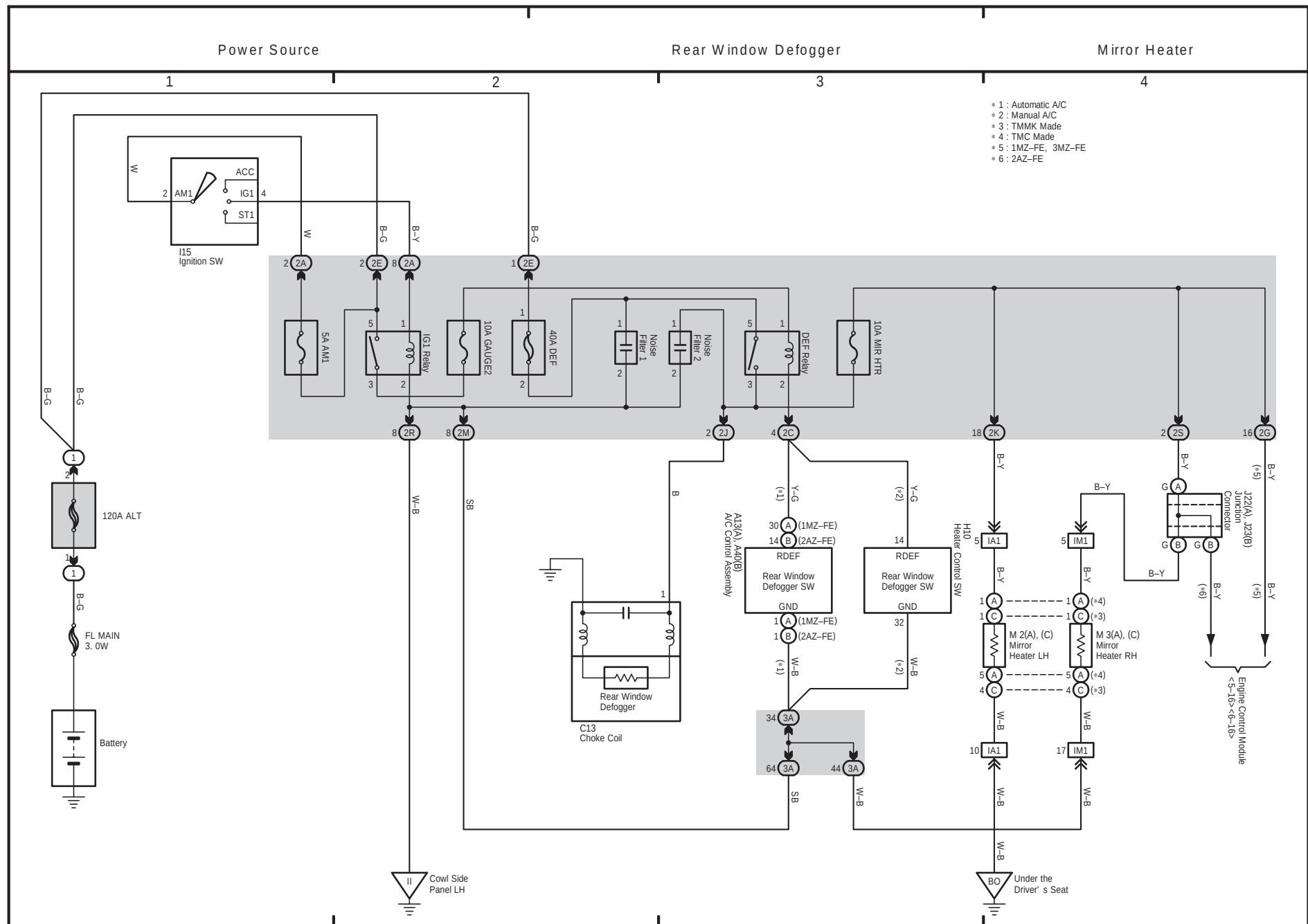
Power Window

- * 1 : w/ Jam Protection
- * 2 : w/o Jam Protection
- * 3 : TMMK Made
- * 4 : TMC Made

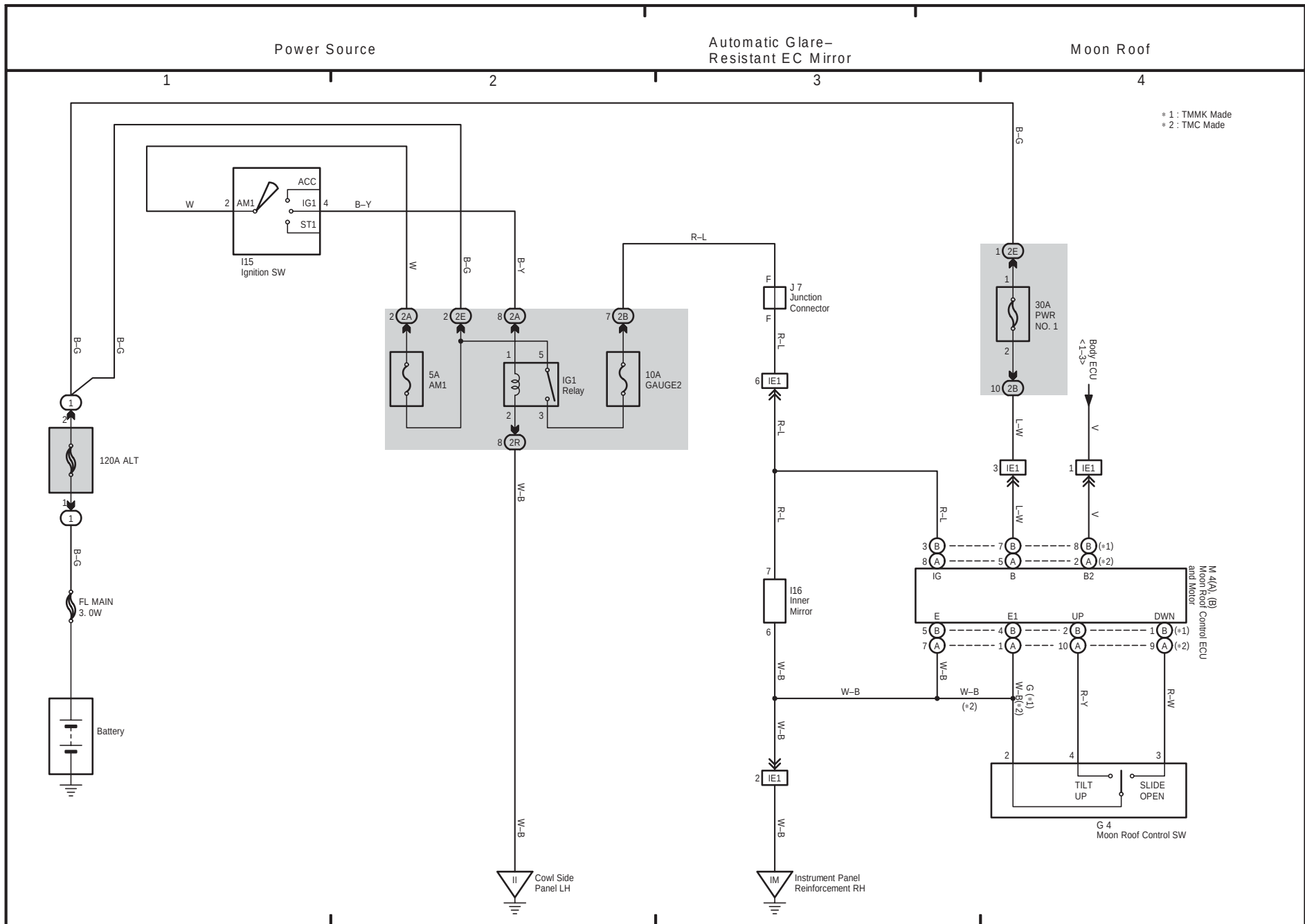


CAMRY (EM0100U)



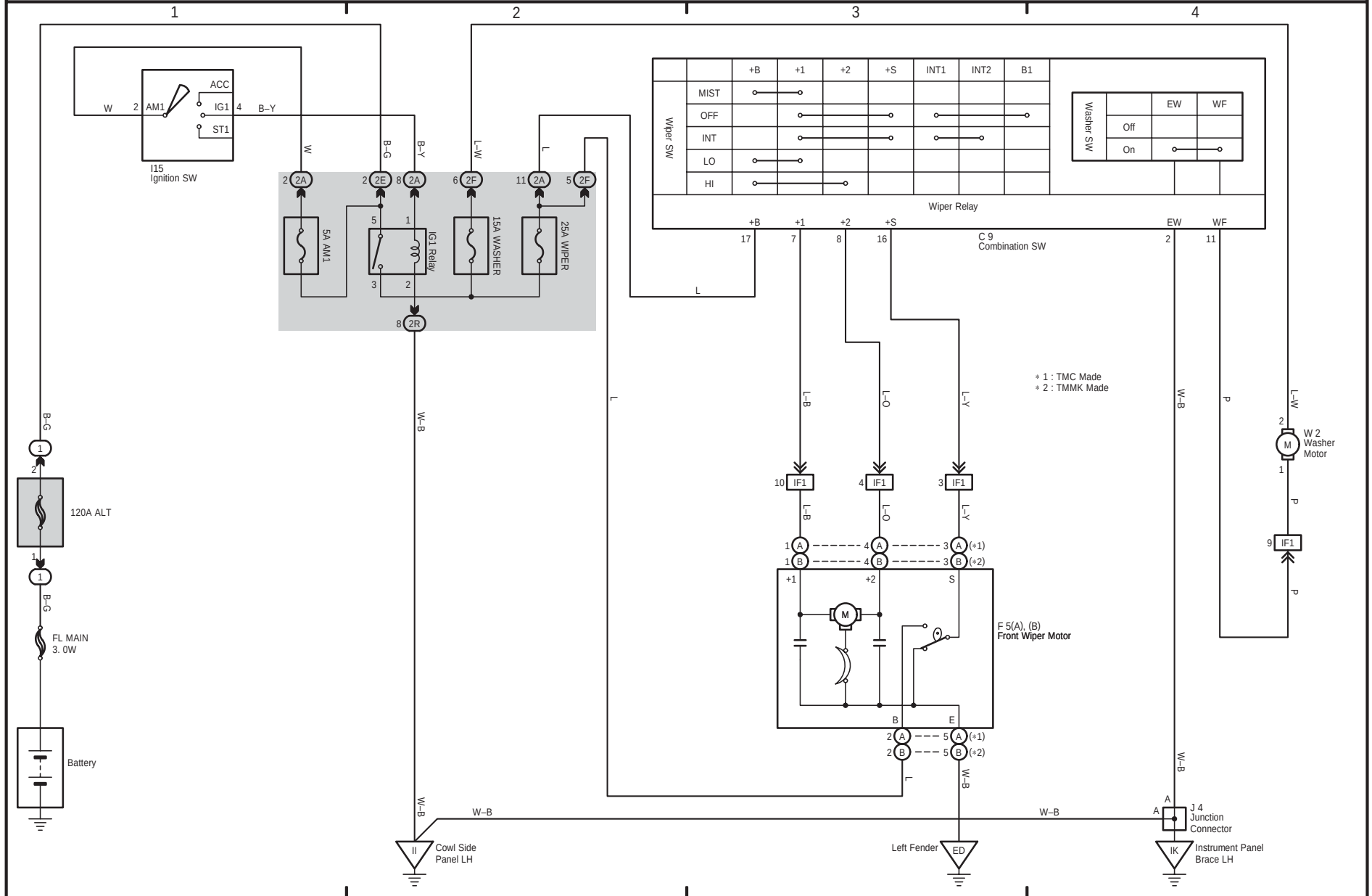


OVERALL ELECTRICAL WIRING DIAGRAM



Power Source

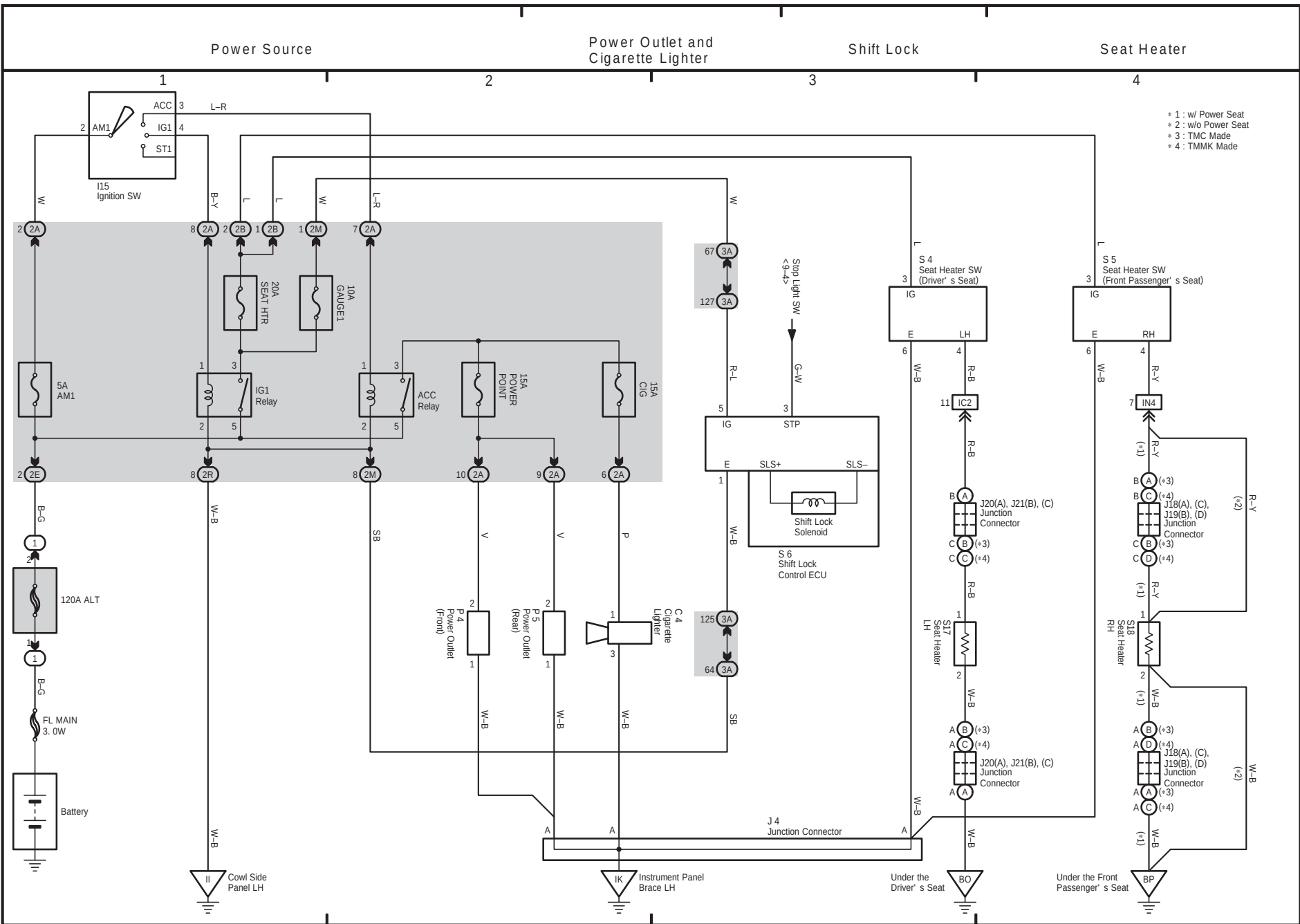
Wiper and Washer

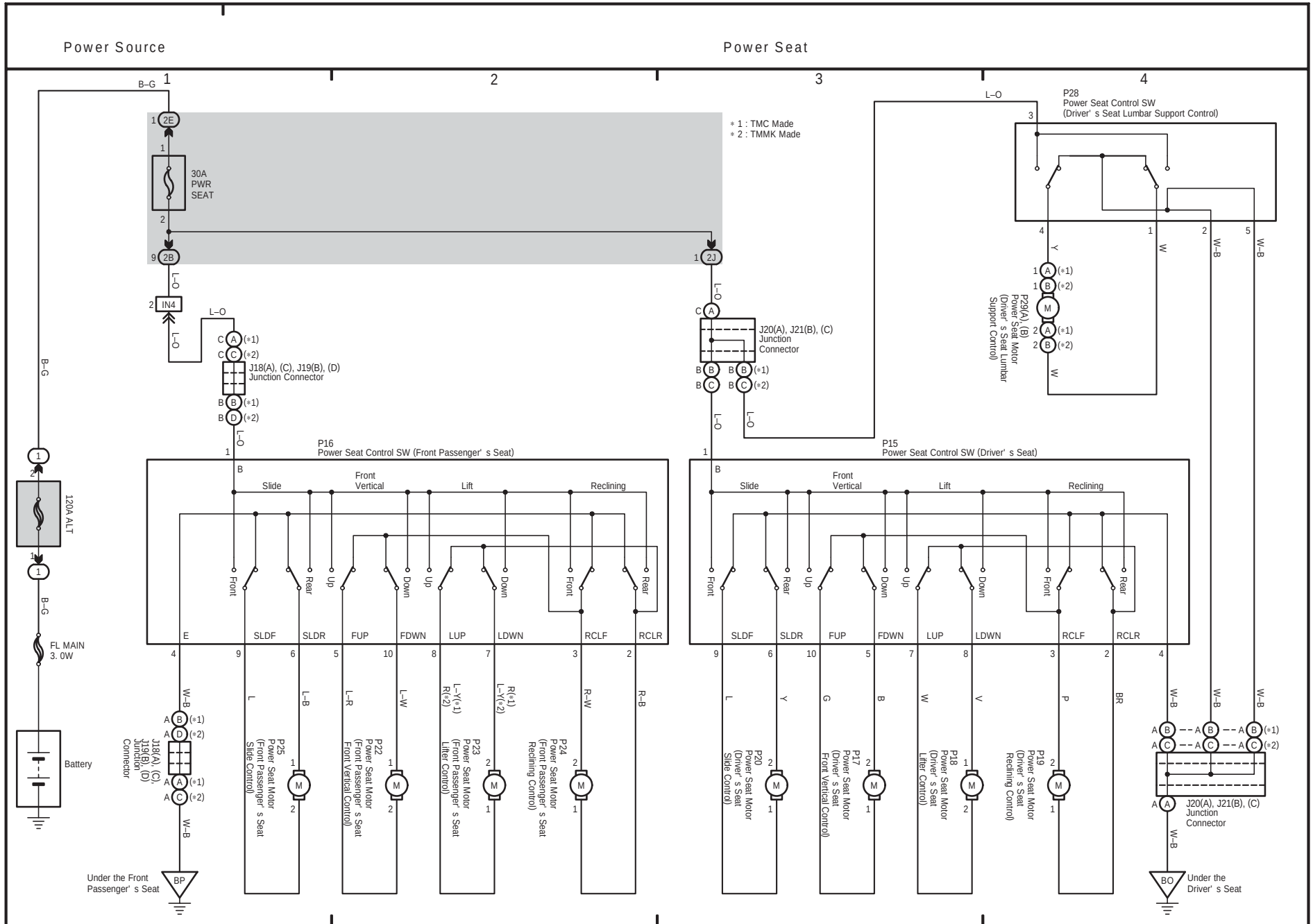


23 CAMRY

370

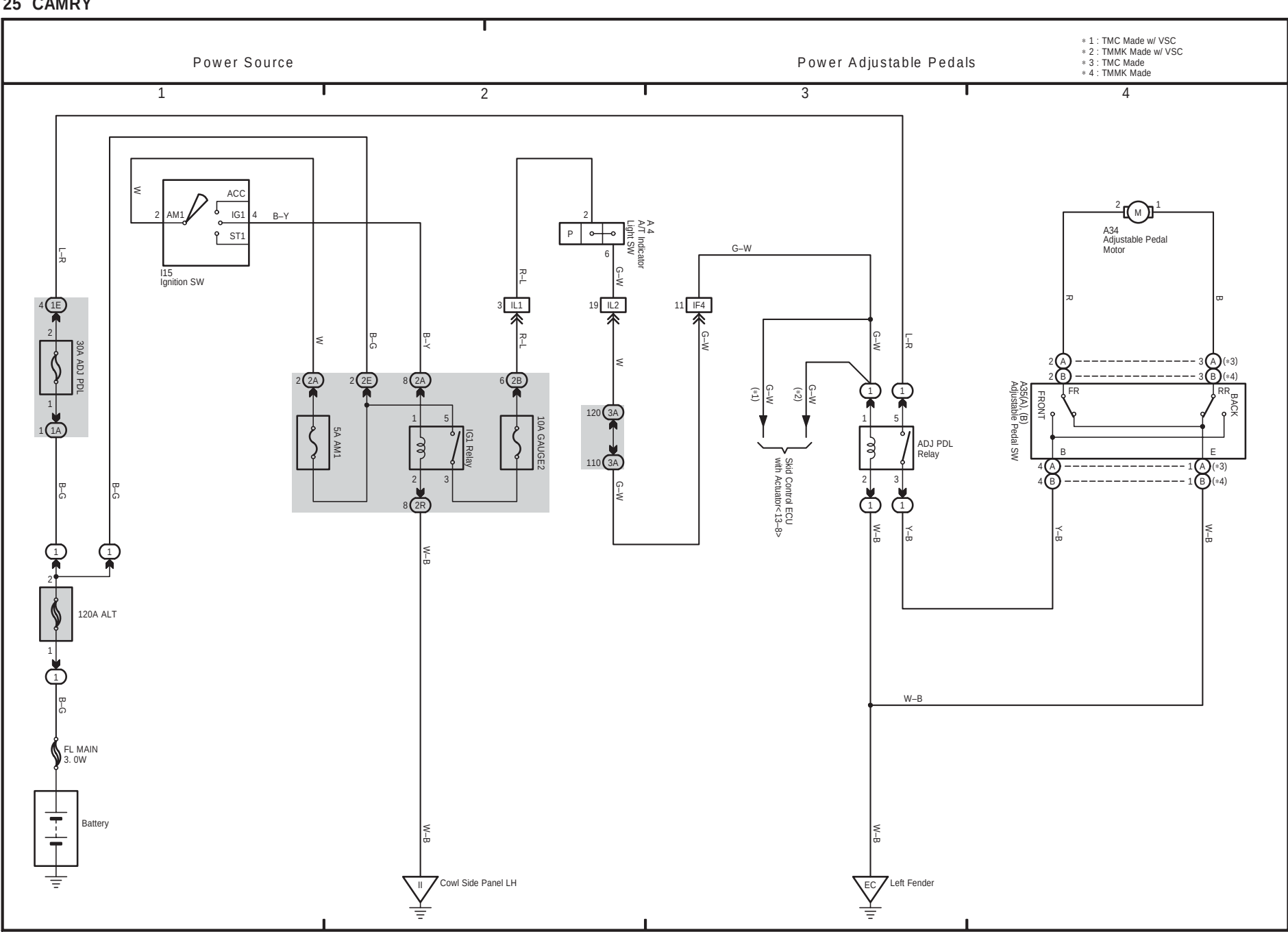
CAMRY (EM0100U)

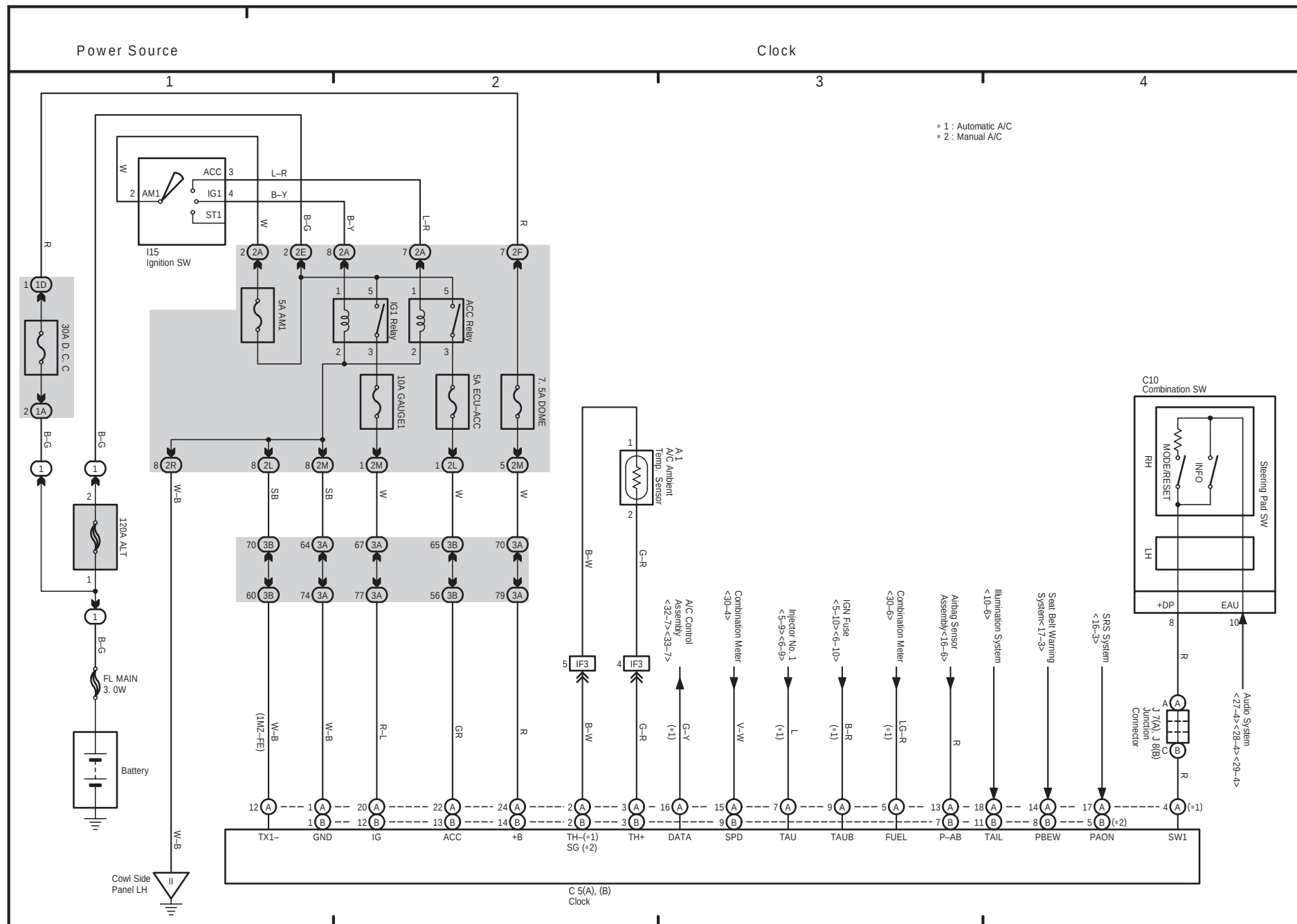


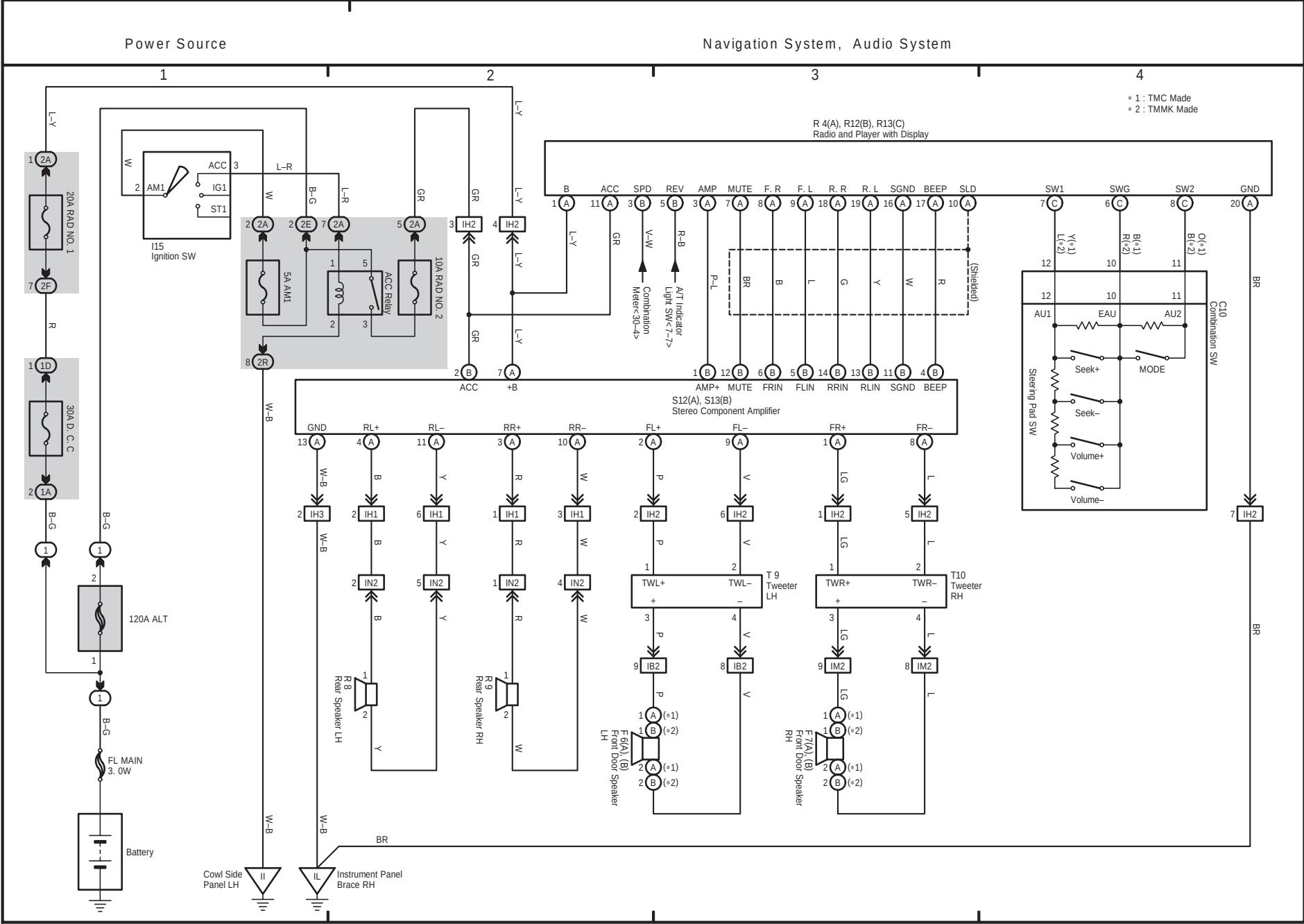


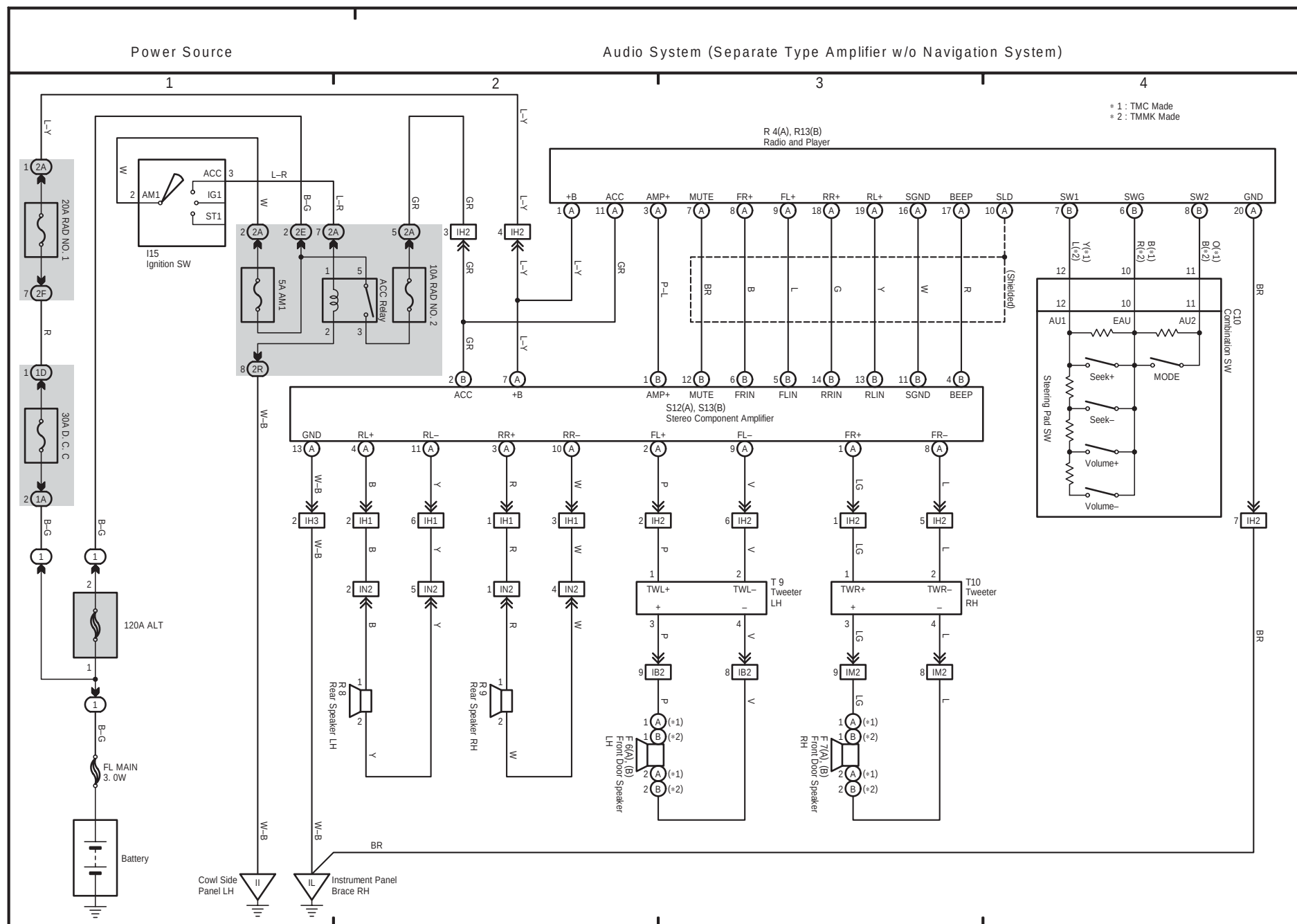
M OVERALL ELECTRICAL WIRING DIAGRAM

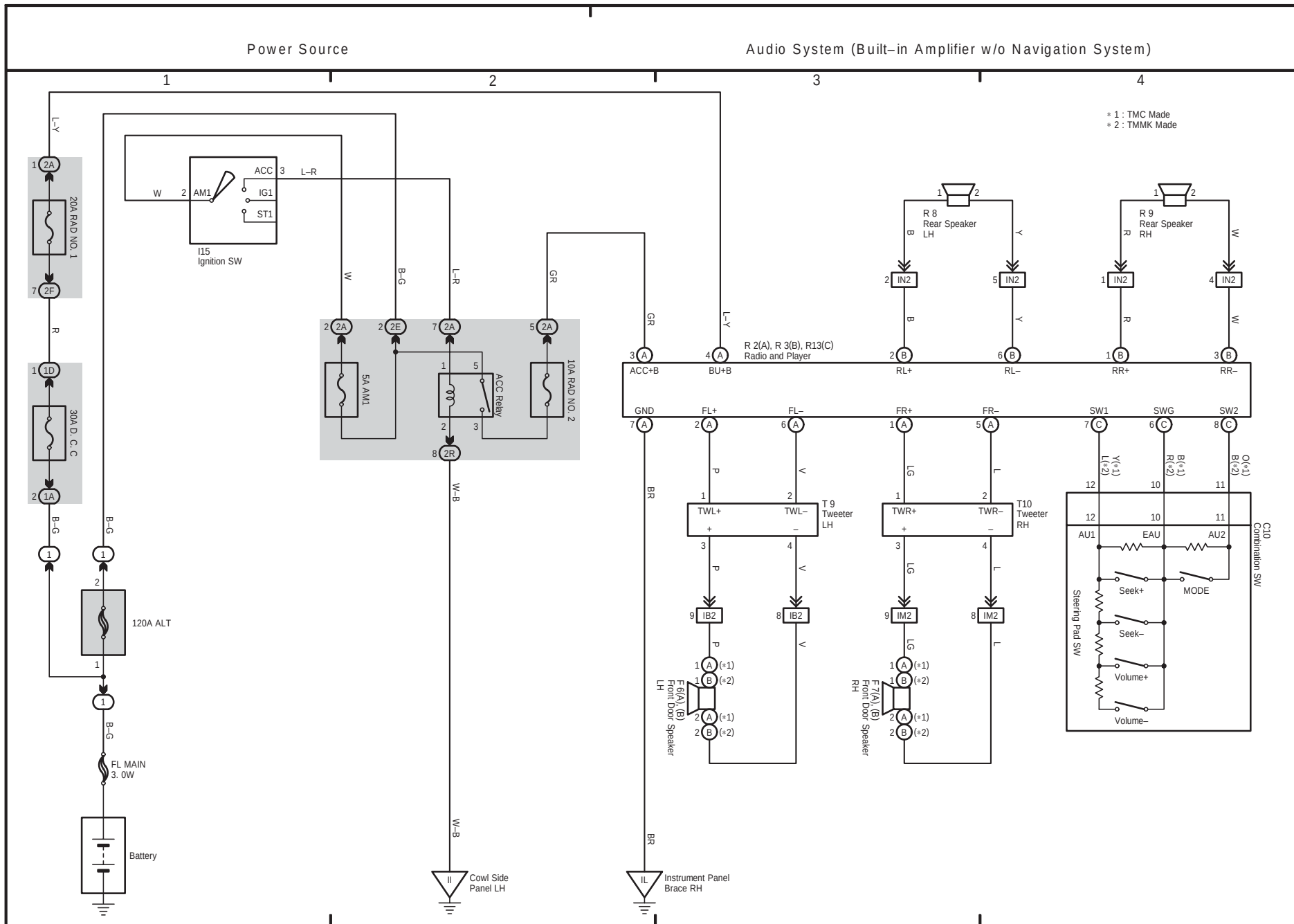
- * 1 : TMC Made w/ VSC
- * 2 : TMMK Made w/ VSC
- * 3 : TMC Made
- * 4 : TMMK Made

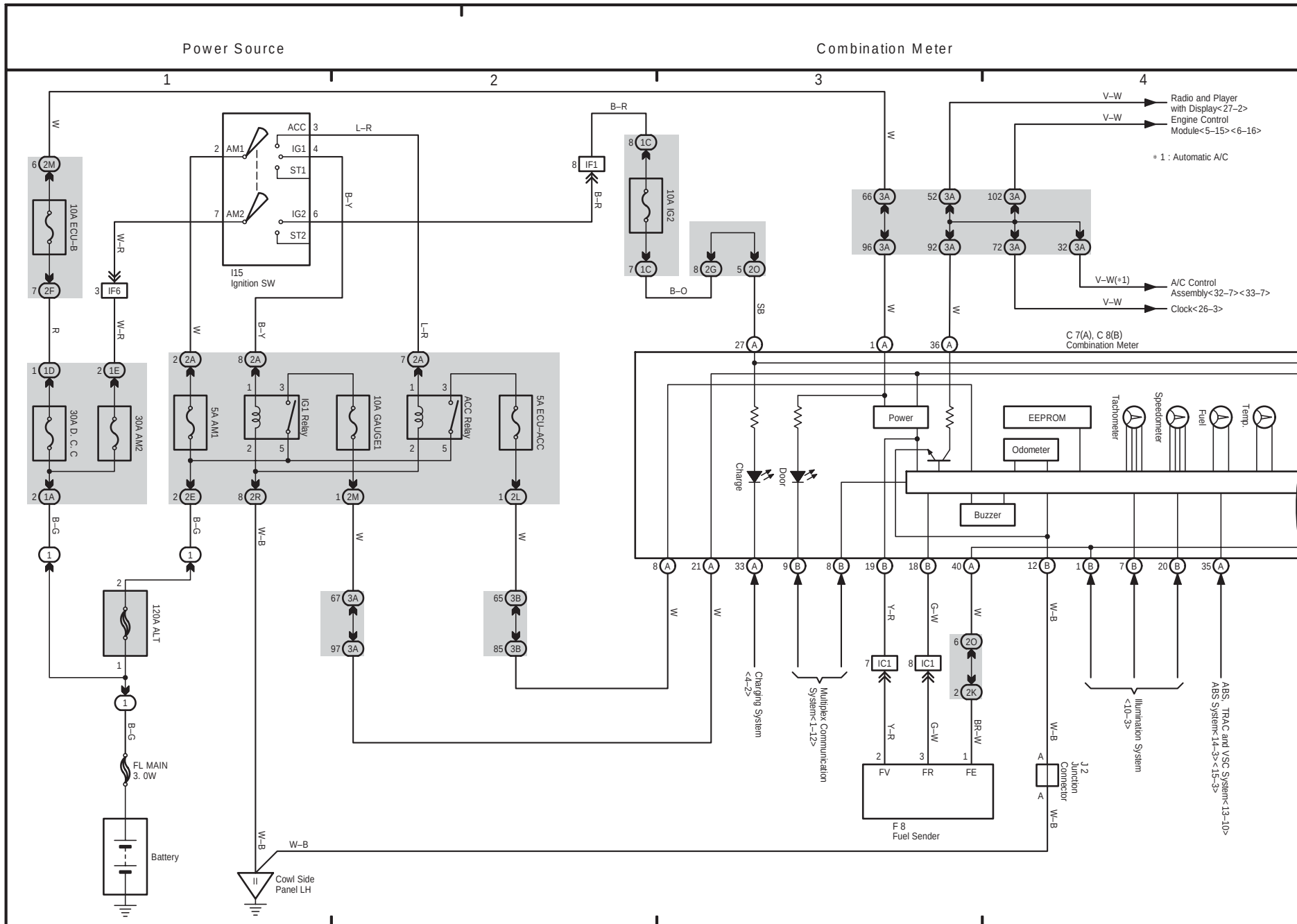




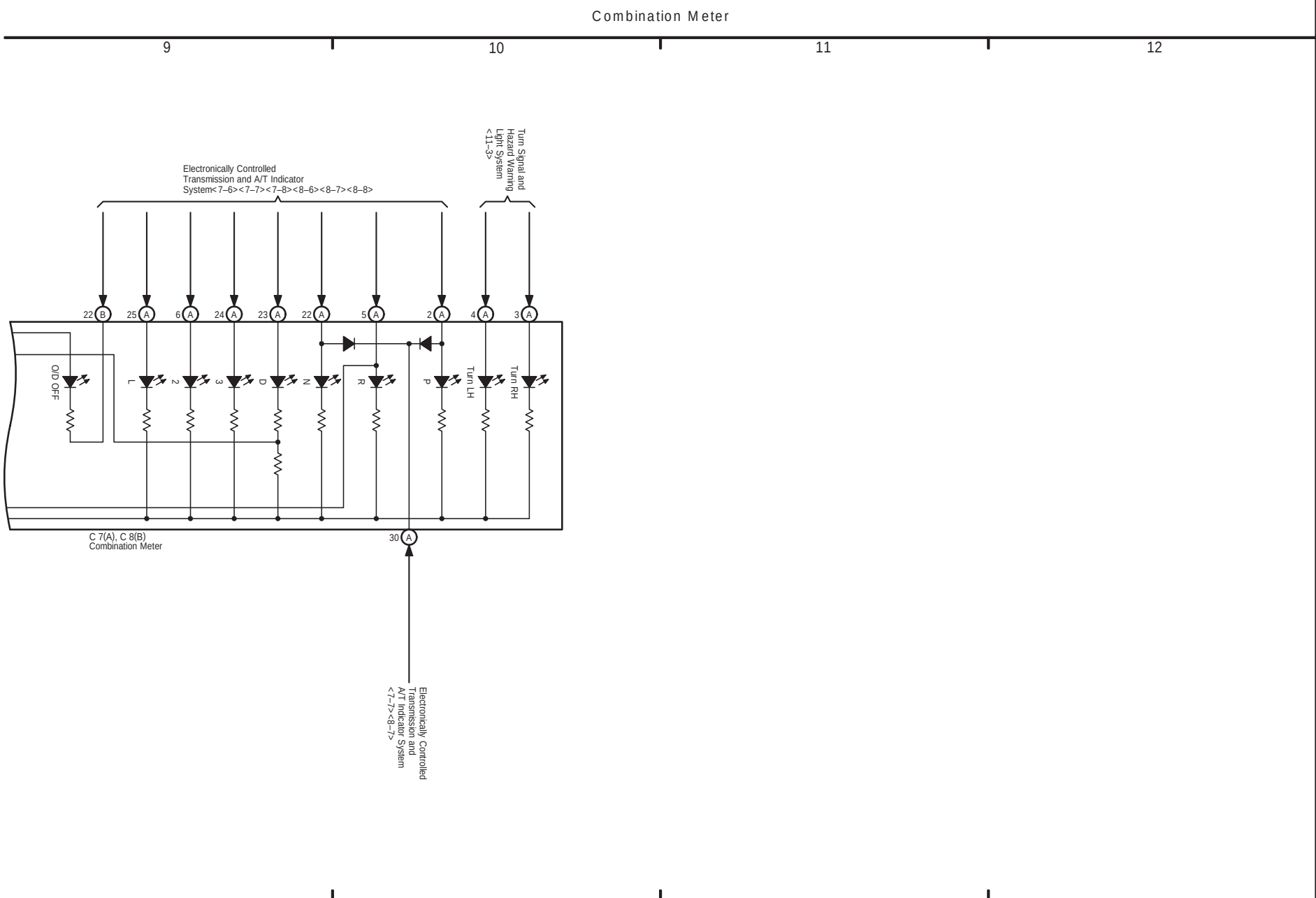


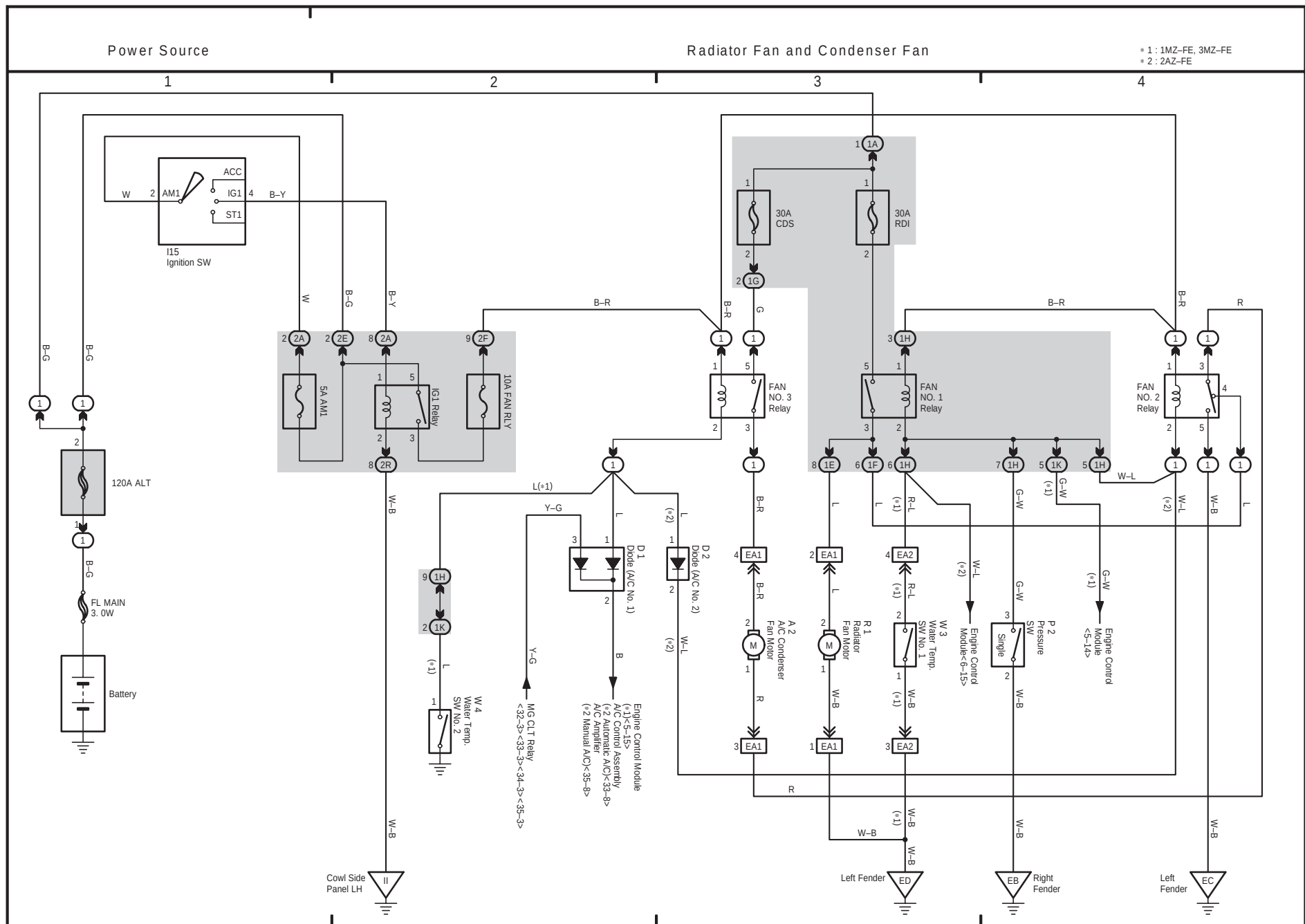






30 CAMRY (Cont' d)



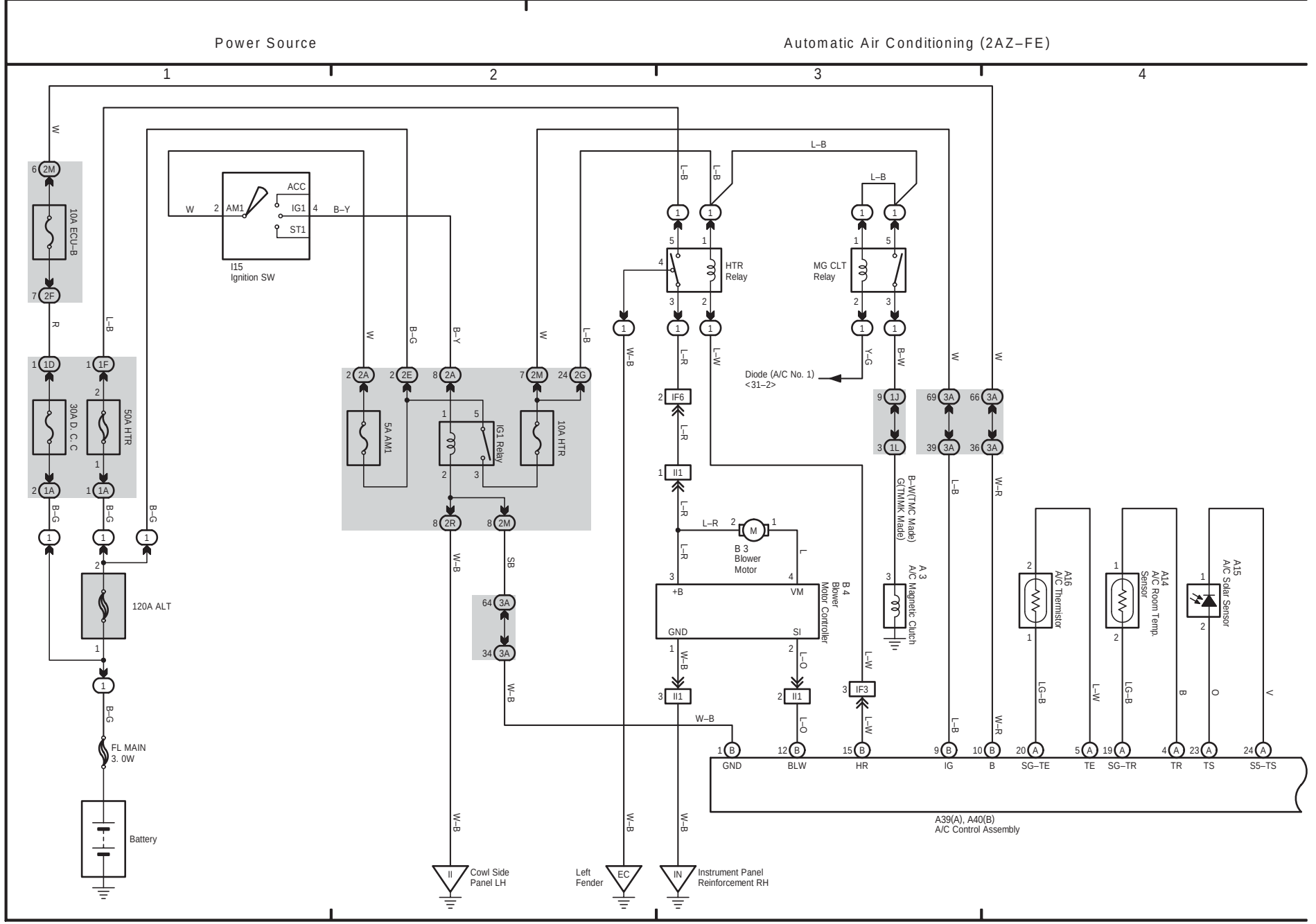


OVERALL ELECTRICAL WIRING DIAGRAM

M

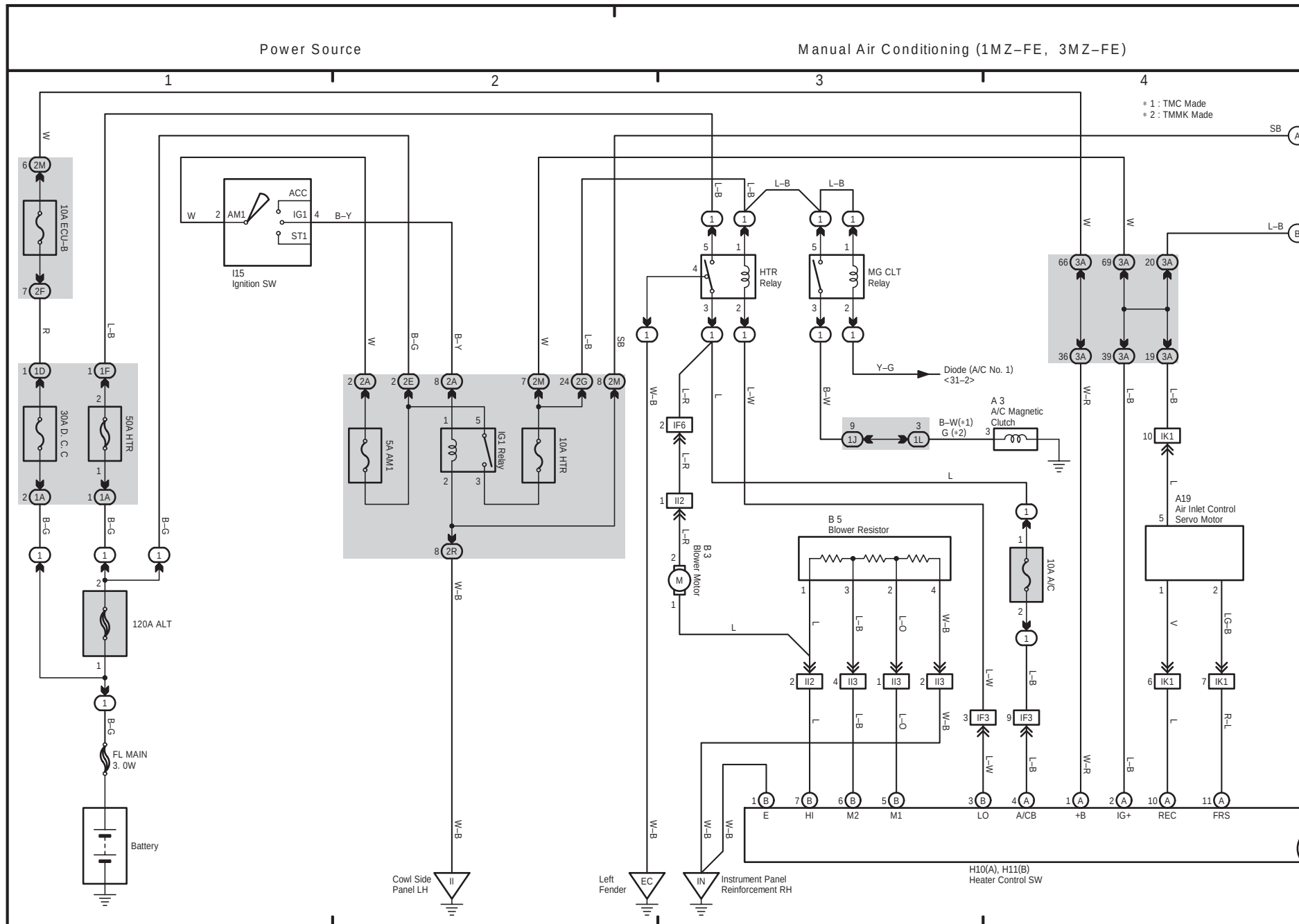


388

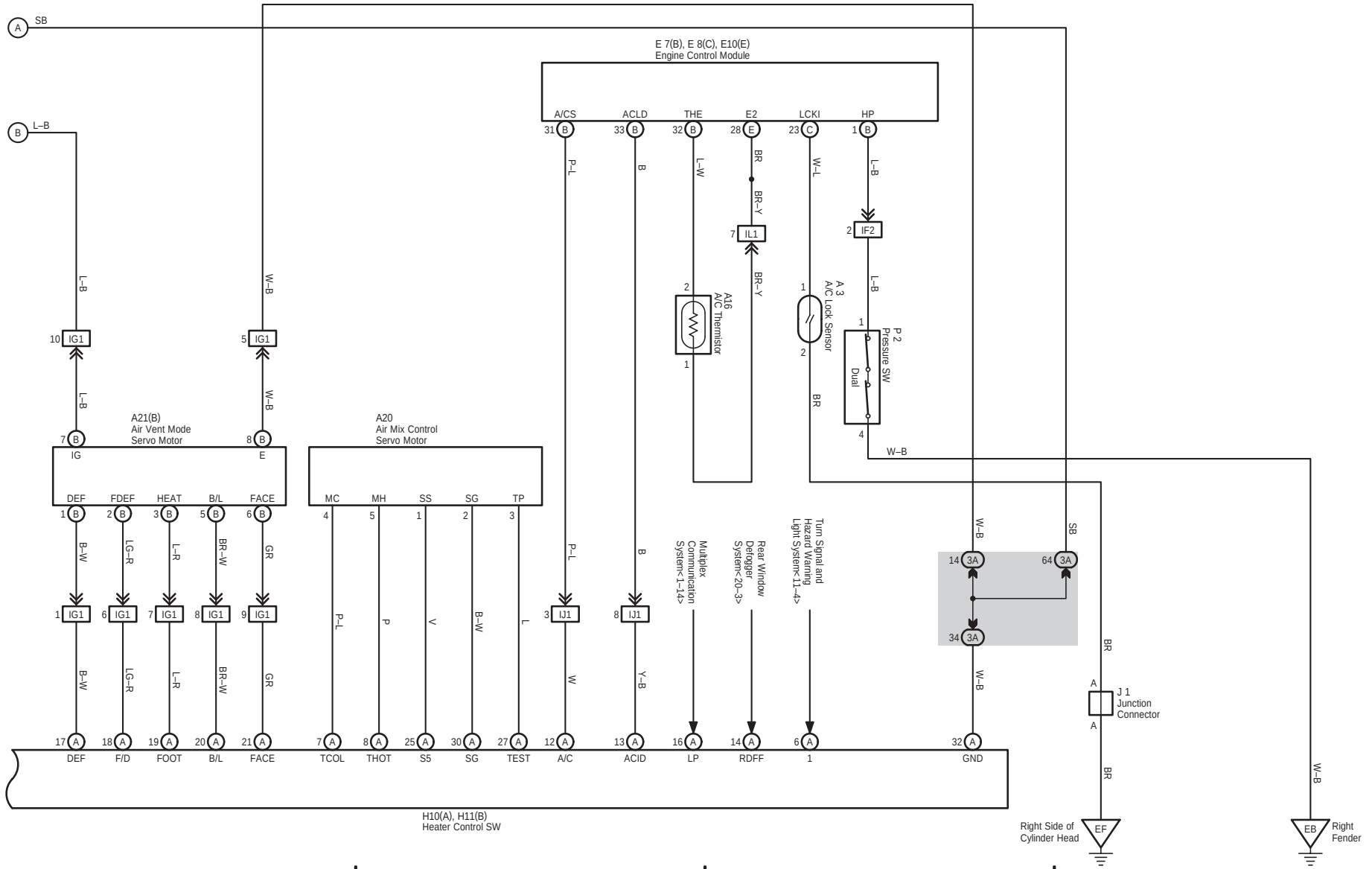


M

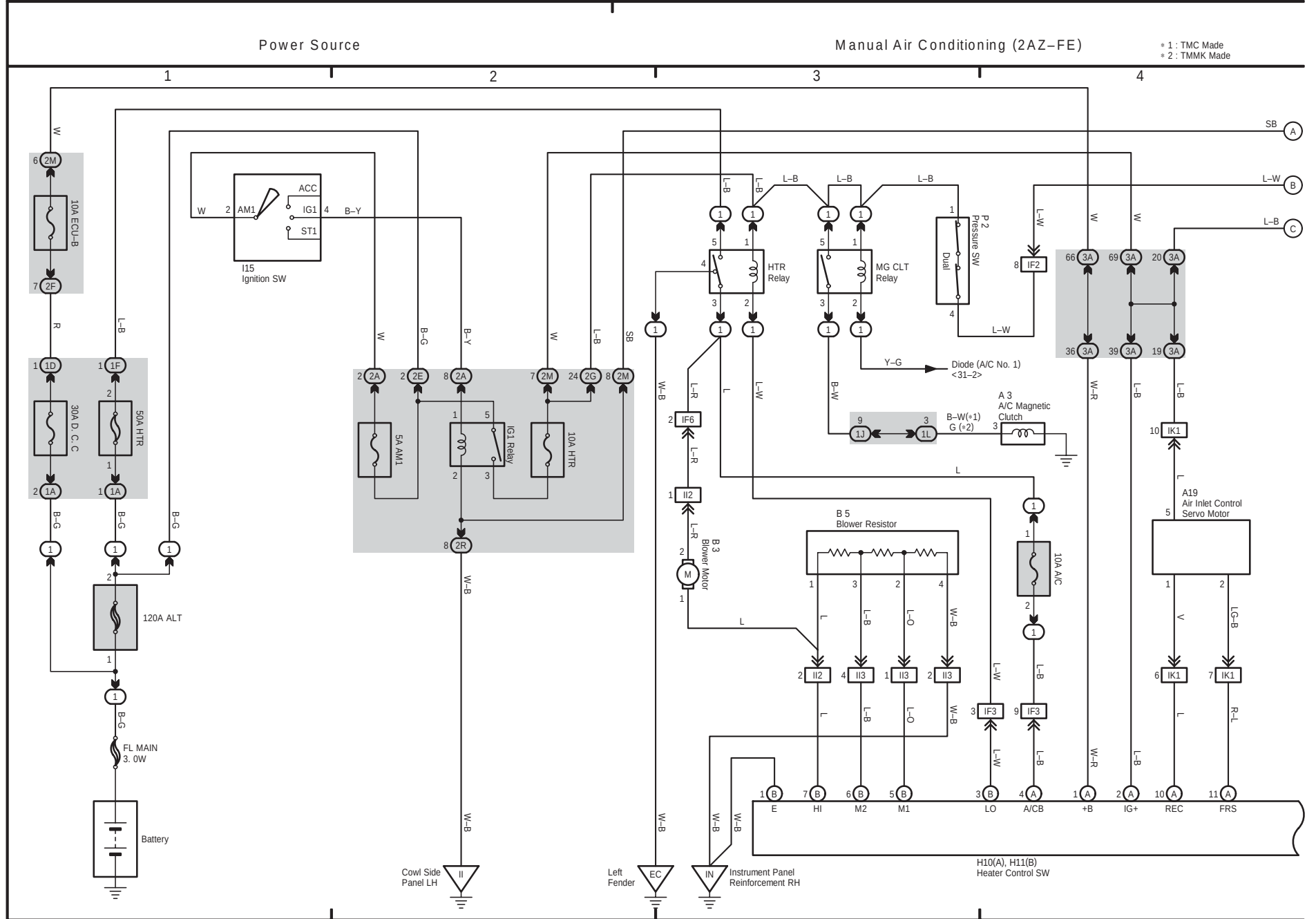




Manual Air Conditioning (1MZ-FE, 3MZ-FE)

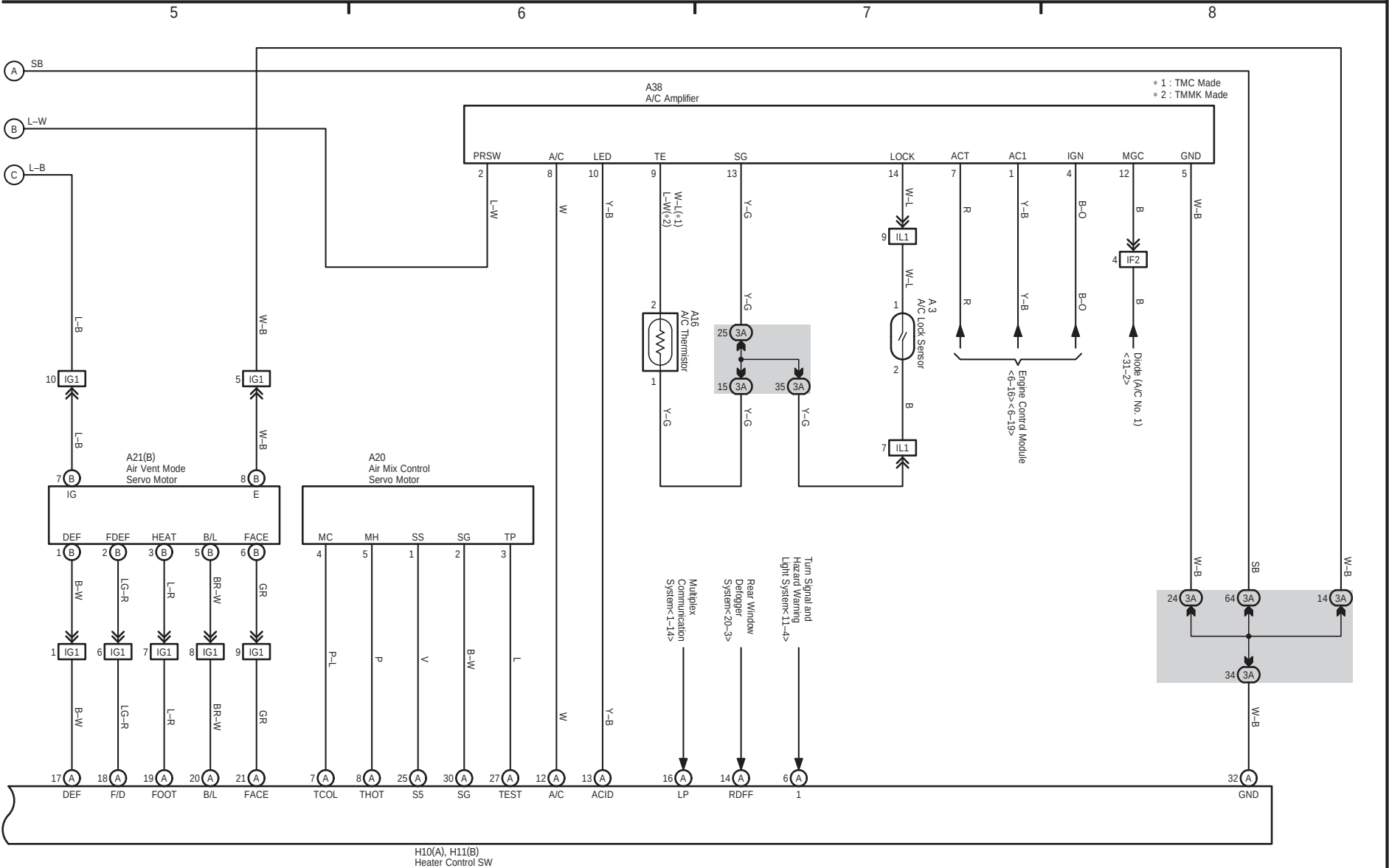


CAMRY (EM0100U)



35 CAMRY (Cont' d)

Manual Air Conditioning (2AZ-FE)



H10(A), H11(B)
Heater Control SW