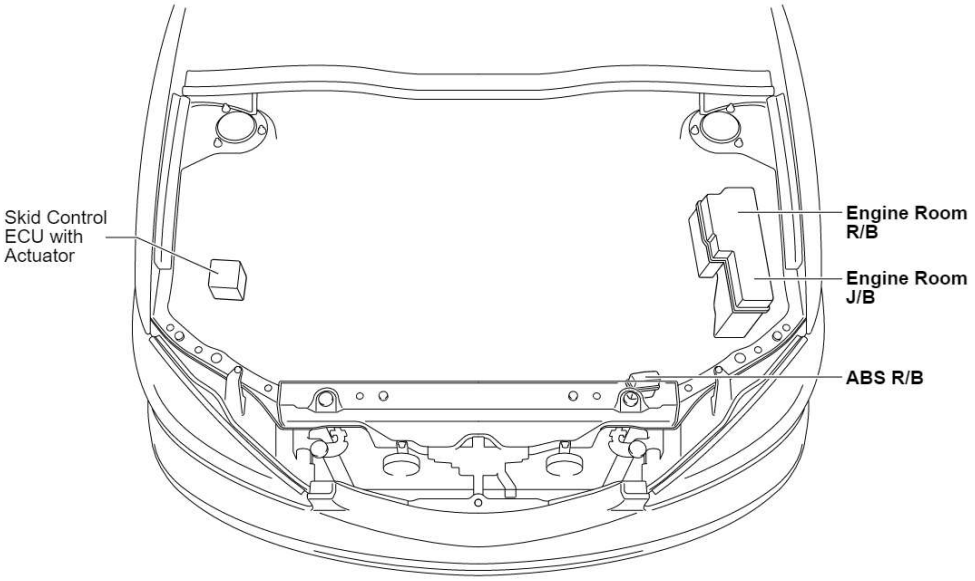
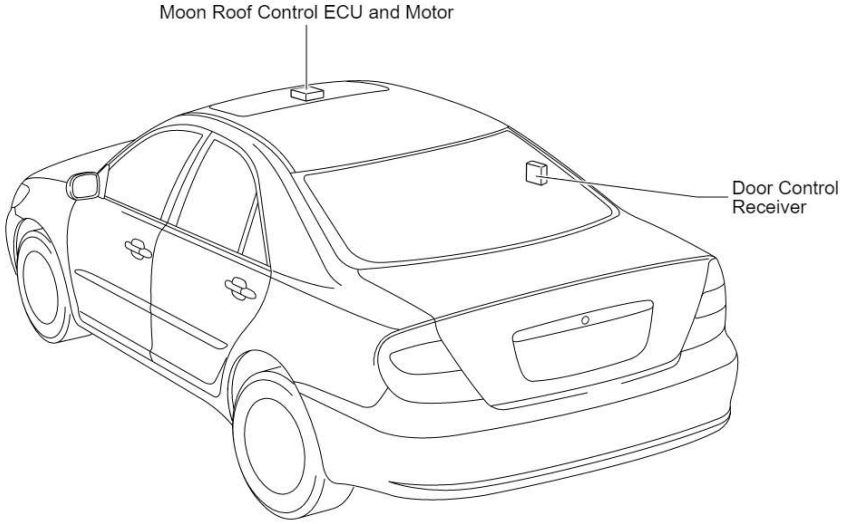
F RELAY LOCATIONS

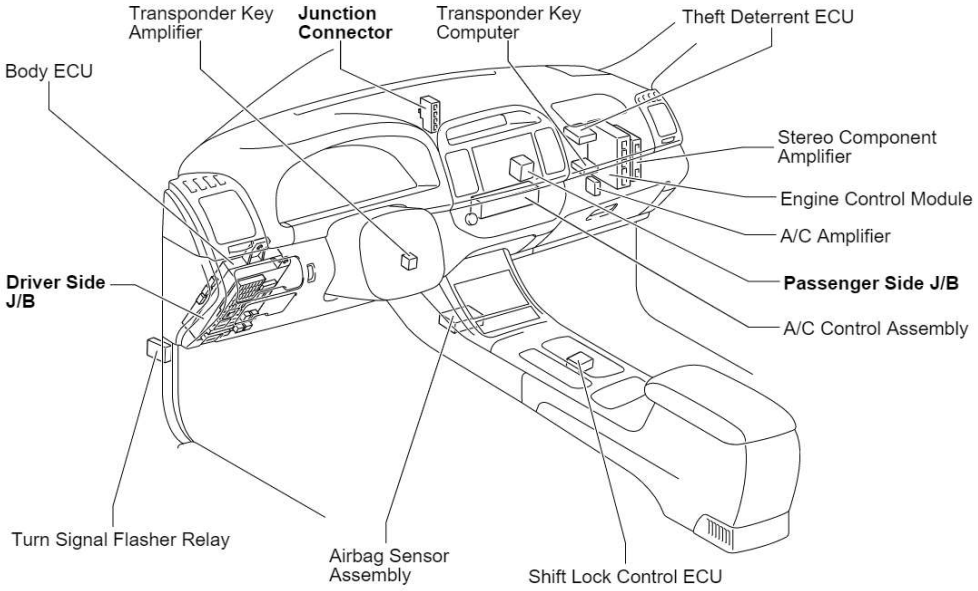
[Engine Compartment]



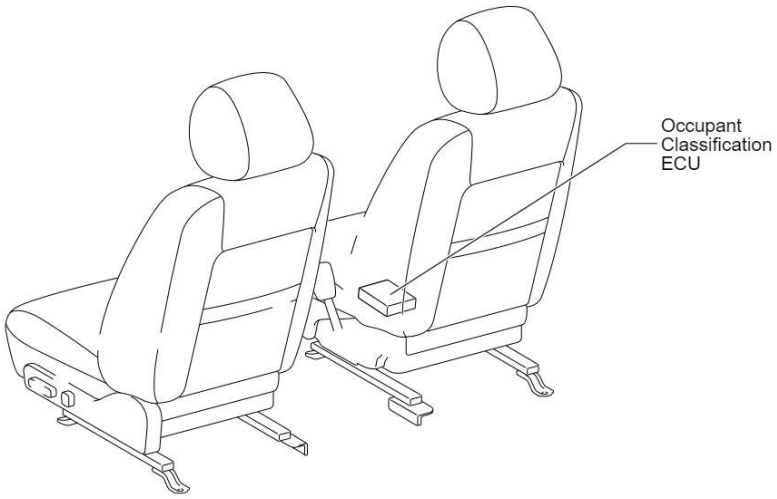
[Body]



[Instrument Panel]

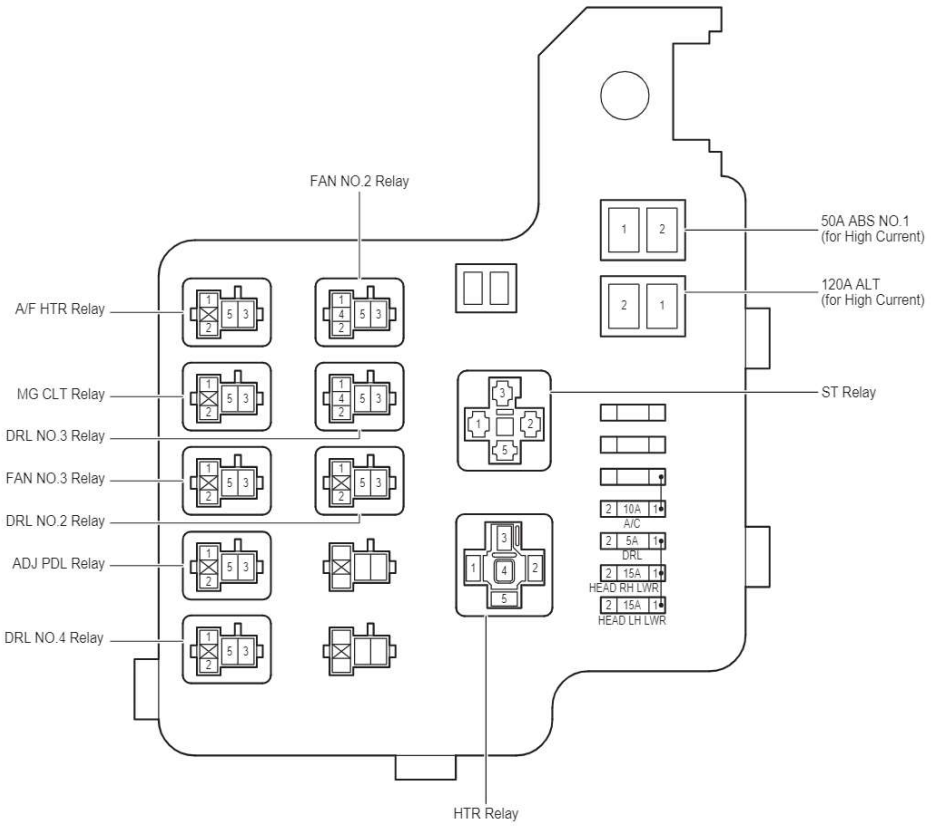


[Seat]

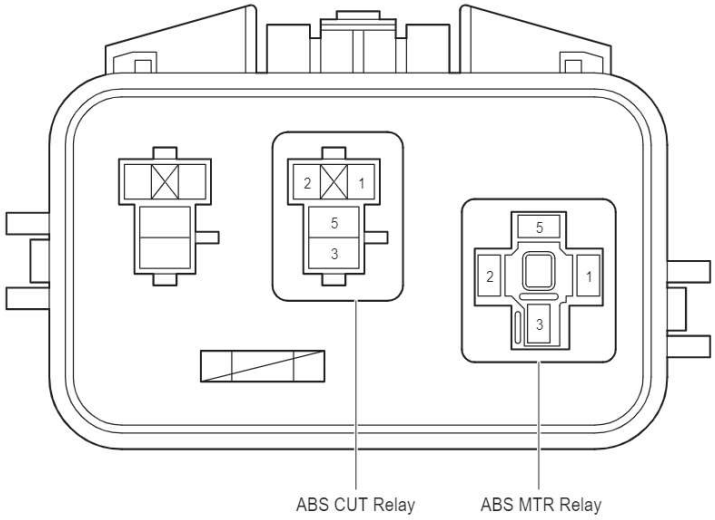


F RELAY LOCATIONS

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

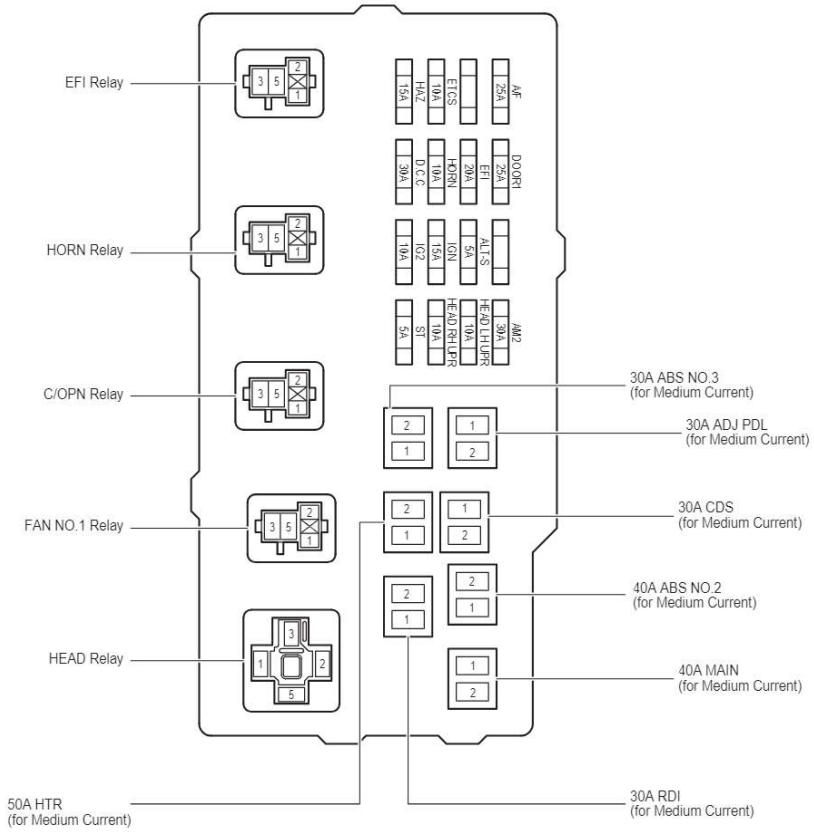


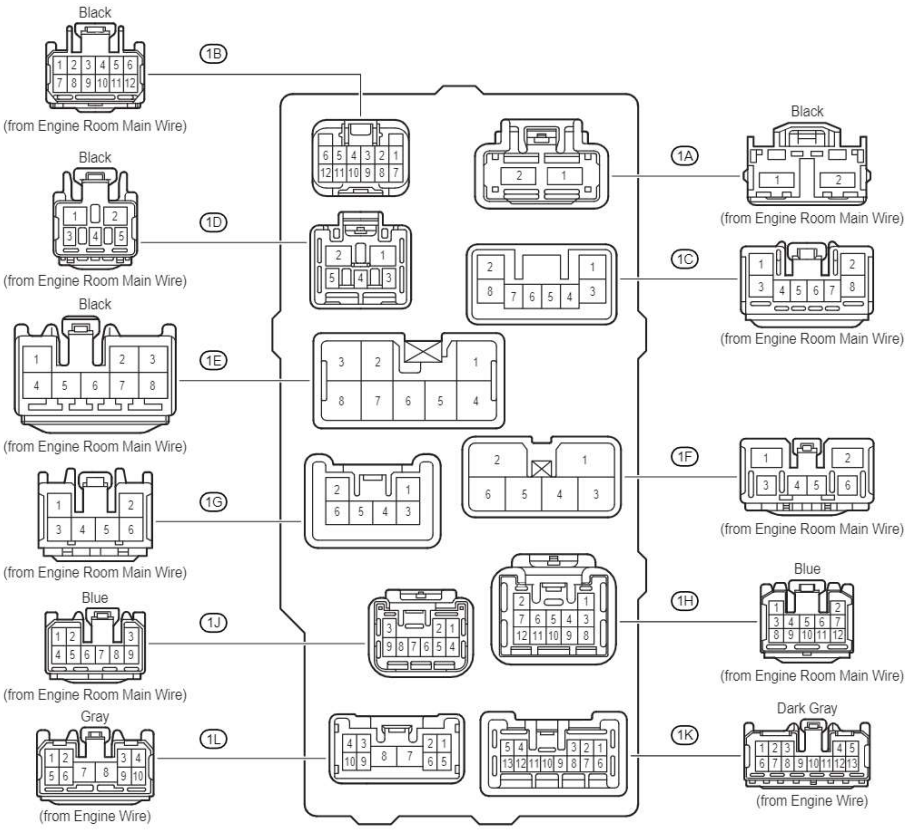
② : ABS R/B	Radiator Side Support LH (See Page 20)



F RELAY LOCATIONS

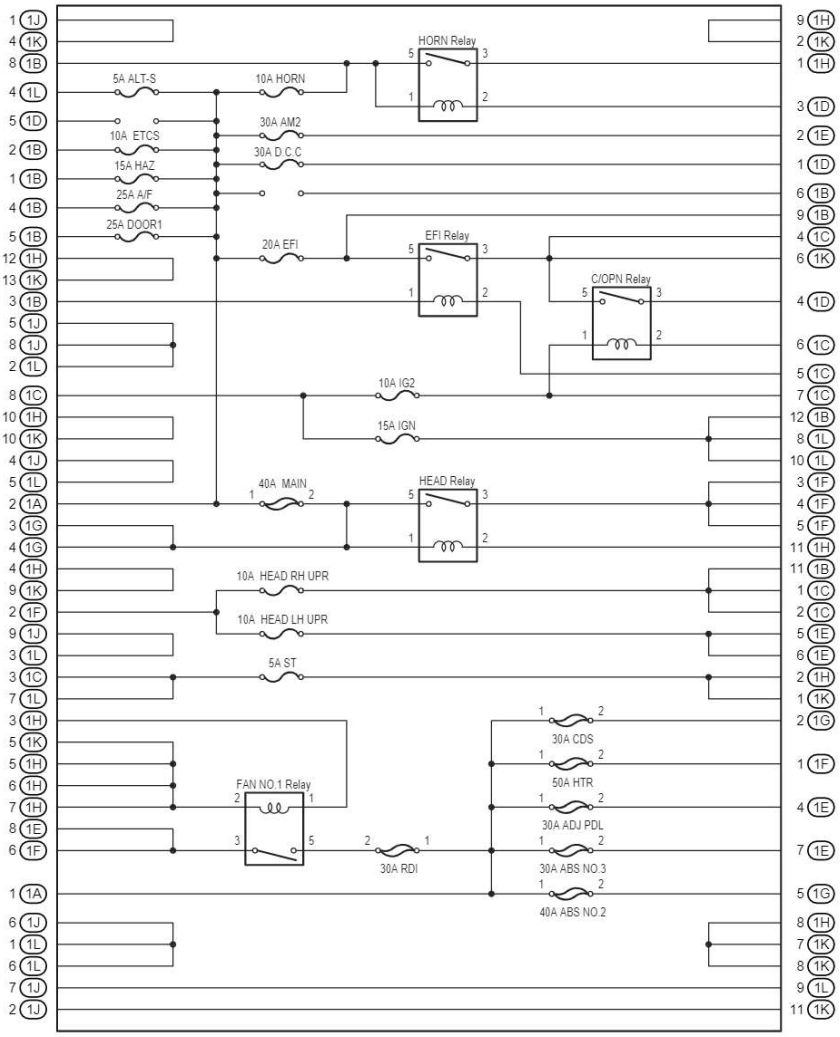
: Engine Room J/B	Engine Compartment Left (See Page 20)




Black
(from Engine Room Main Wire)
1B
Black
(from Engine Room Main Wire)
1D
Black
(from Engine Room Main Wire)
1E
(from Engine Room Main Wire)
1G
Blue
(from Engine Room Main Wire)
1J
Gray
(from Engine Wire)
1L
1A
Black
(from Engine Room Main Wire)
1C
(from Engine Room Main Wire)
1F
(from Engine Room Main Wire)
1H
Blue
(from Engine Room Main Wire)
1K
Dark Gray
(from Engine Wire)

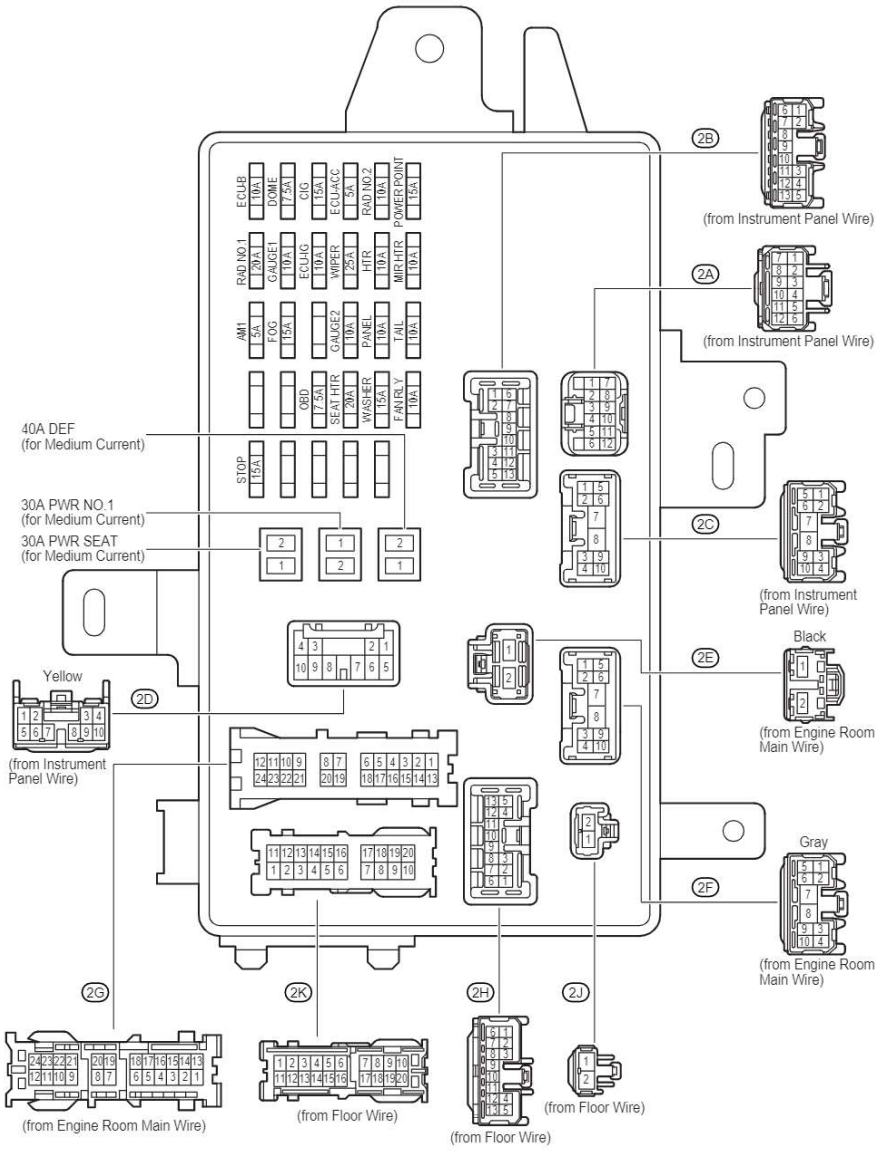
F RELAY LOCATIONS

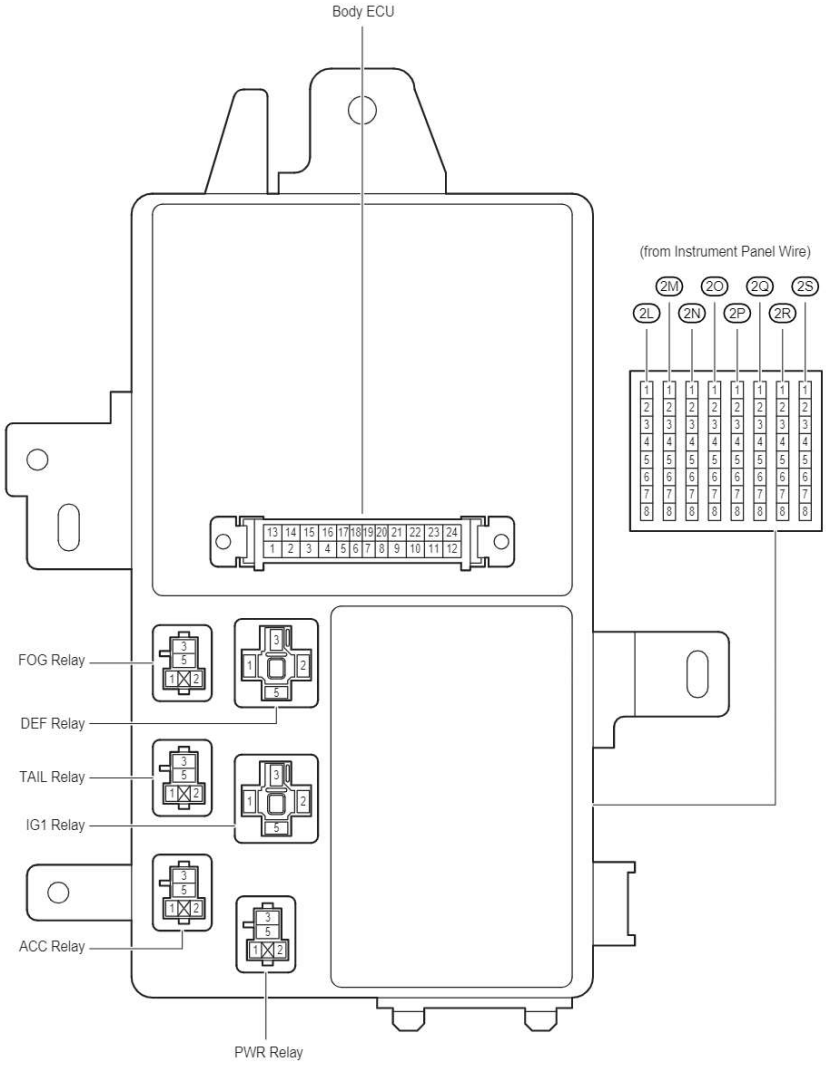
[Engine Room J/B Inner Circuit]



F RELAY LOCATIONS

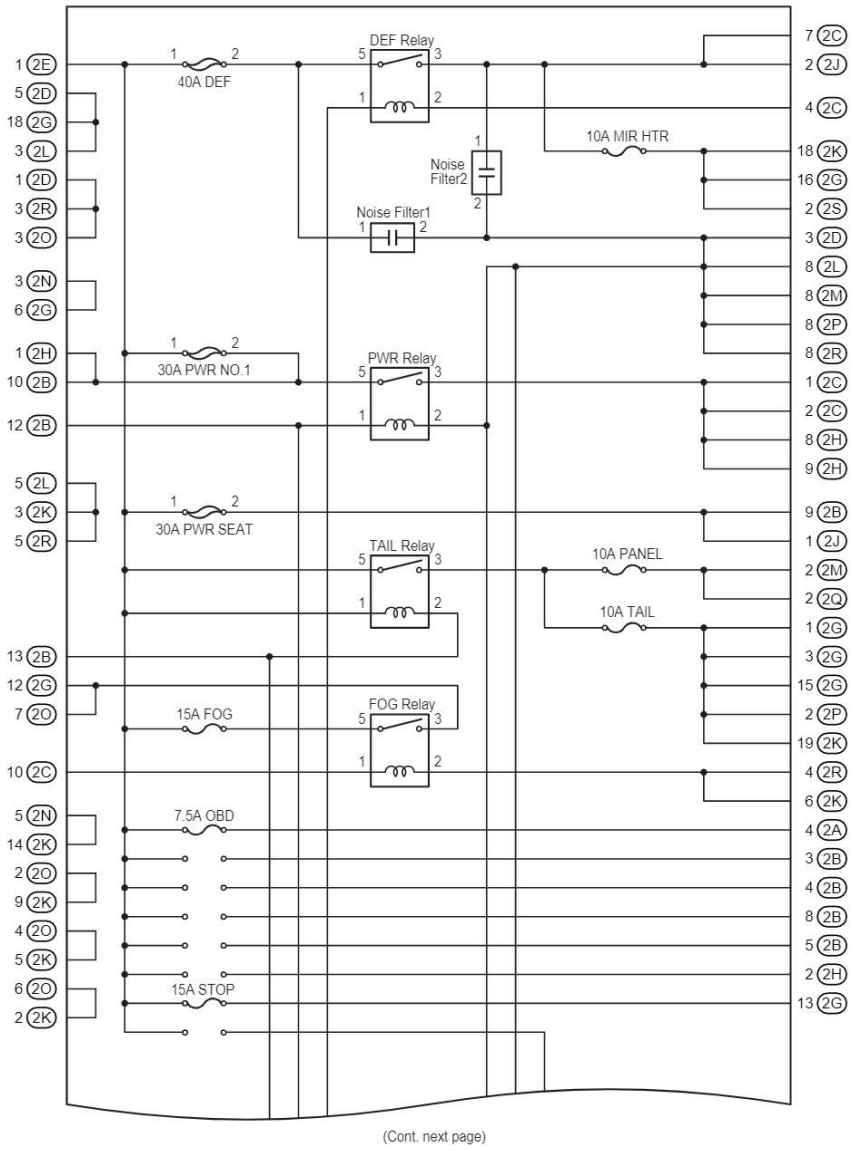
: Driver Side J/B	Lower Finish Panel (See Page 21)

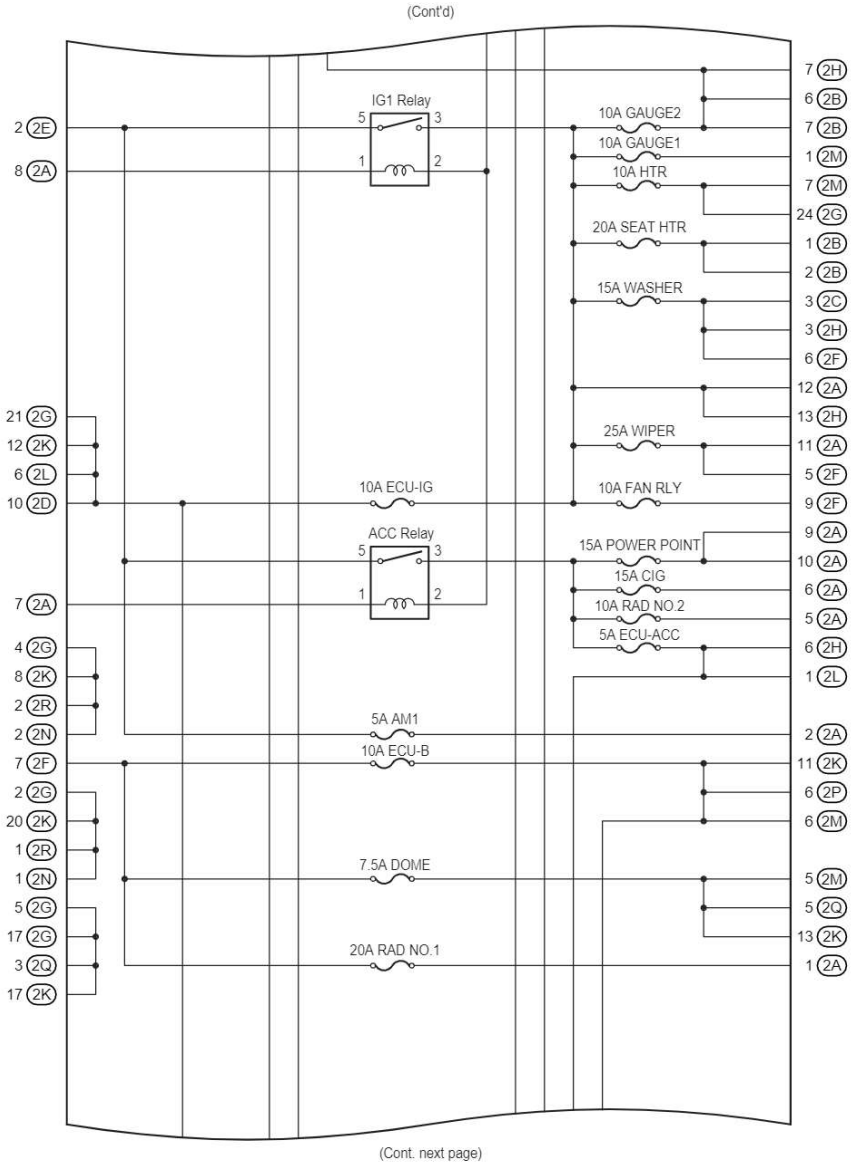



Body ECU
(from Instrument Panel Wire)
2M
2O
2Q
2S
2L
2N
2P
2R
FOG Relay
DEF Relay
TAIL Relay
IG1 Relay
ACC Relay
PWR Relay

F RELAY LOCATIONS

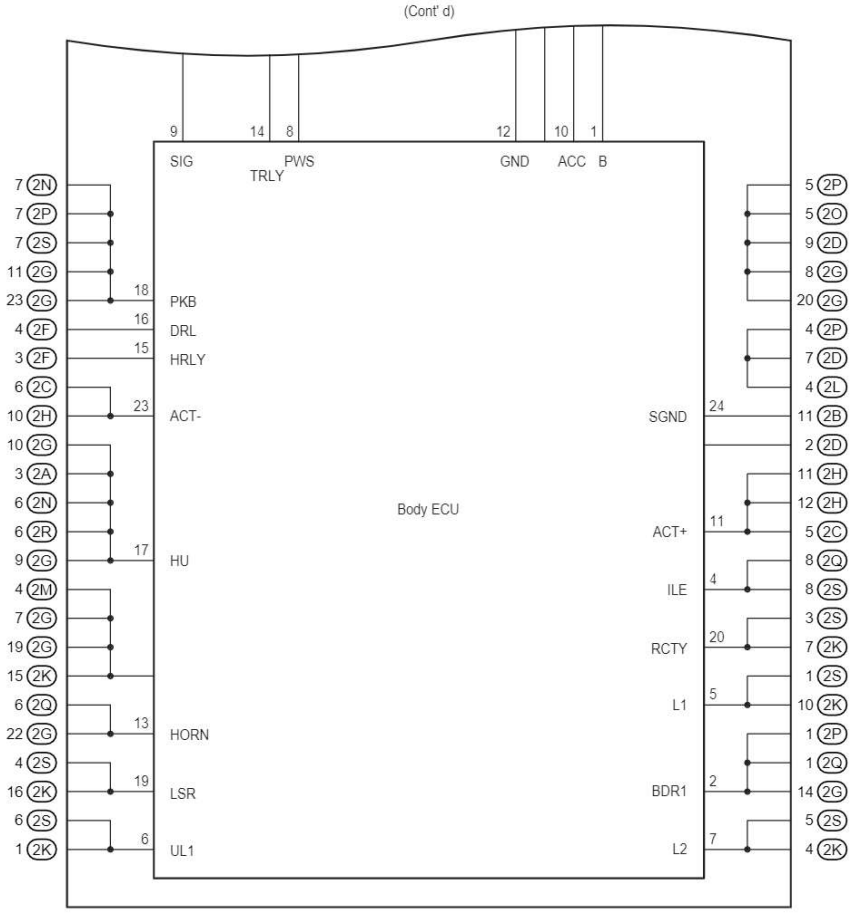
[Driver Side J/B Inner Circuit]




(Cont'd)
IG1 Relay
ACC Relay
10A GAUGE2
10A GAUGE1
10A HTR
20A SEAT HTR
15A WASHER
25A WIPER
10A FAN RLY
15A POWER POINT
15A CIG
10A RAD NO.2
5A ECU-ACC
10A ECU-IG
5A AM1
10A ECU-B
7.5A DOME
20A RAD NO.1
2 2E
8 2A
21 2G
12 2K
6 2L
10 2D
7 2A
4 2G
8 2K
2 2R
2 2N
7 2F
2 2G
20 2K
1 2R
1 2N
5 2G
17 2G
3 2Q
17 2K
7 2H
6 2B
7 2B
1 2M
7 2M
24 2G
1 2B
2 2B
3 2C
3 2H
6 2F
12 2A
13 2H
11 2A
5 2F
9 2F
9 2A
10 2A
6 2A
5 2A
6 2H
1 2L
2 2A
11 2K
6 2P
6 2M
5 2M
5 2Q
13 2K
1 2A
(Cont. next page)

F RELAY LOCATIONS

[Driver Side J/B Inner Circuit]



Inside-the-Plate Wiring Connection Diagram

When conducing 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

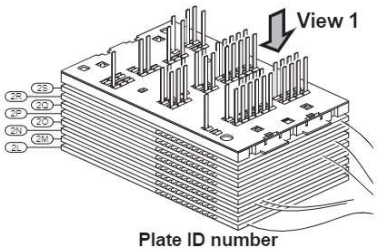
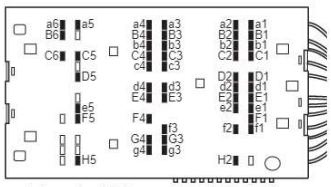
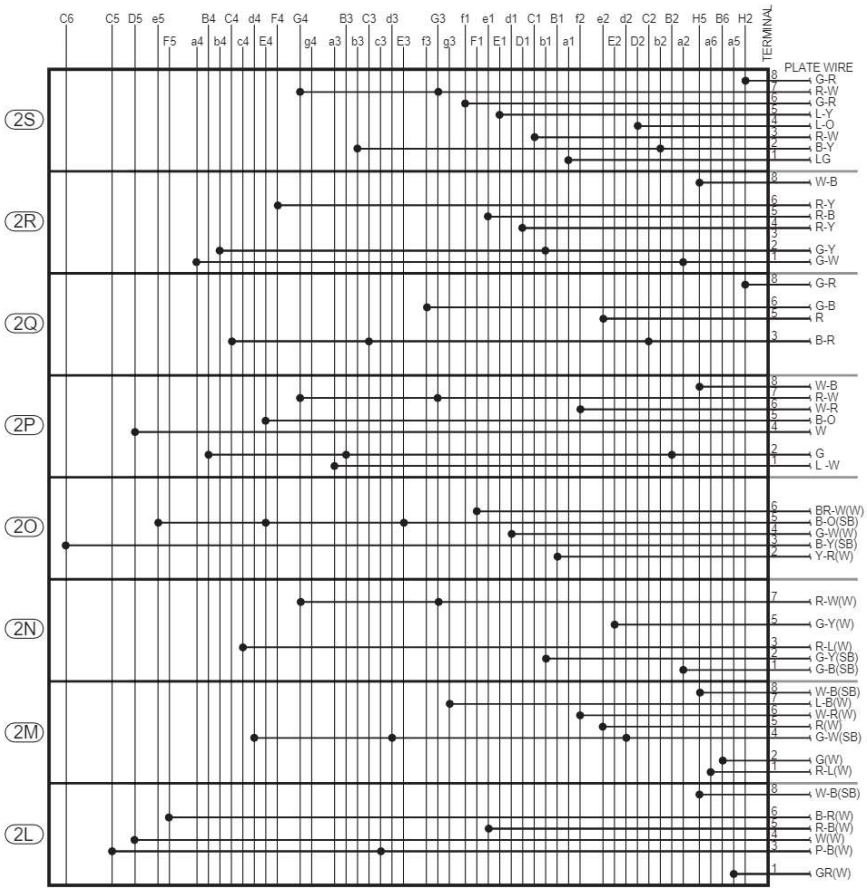


Plate ID number

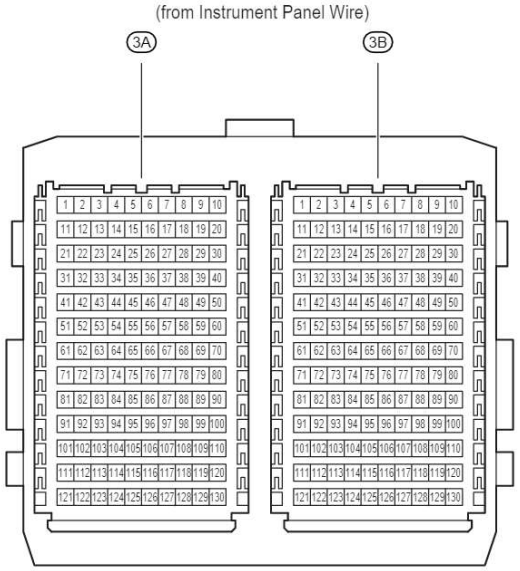


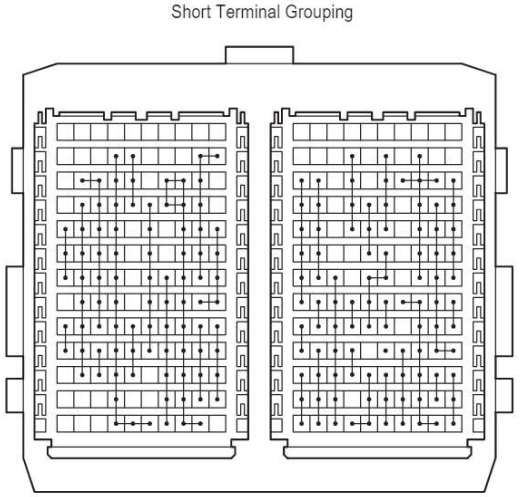
Terminal ID number (View 1)



F RELAY LOCATIONS

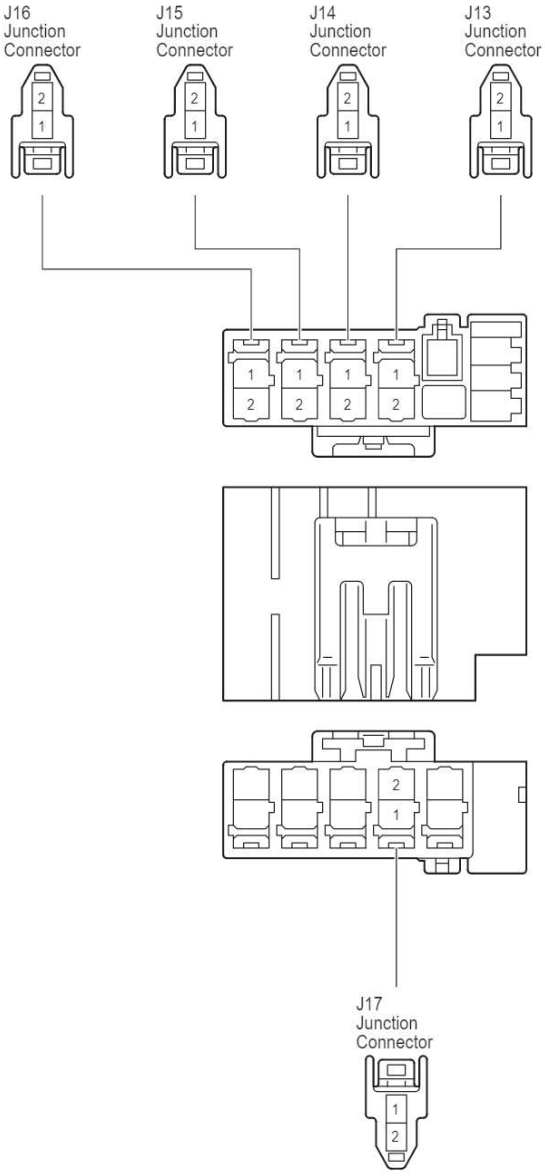
⬭ : Passenger Side J/B	Instrument Panel Brace RH (See Page 21)





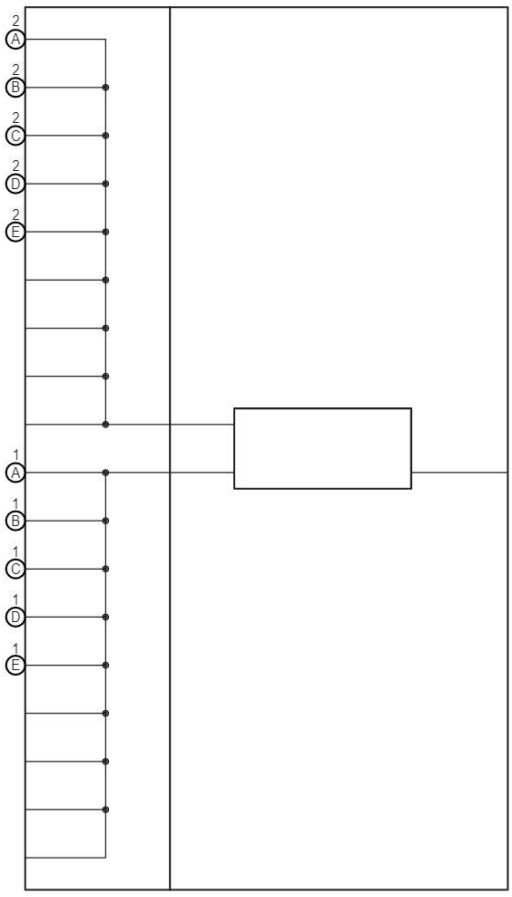
F RELAY LOCATIONS

Junction Connector	Instrument Panel Center (See Page 21)



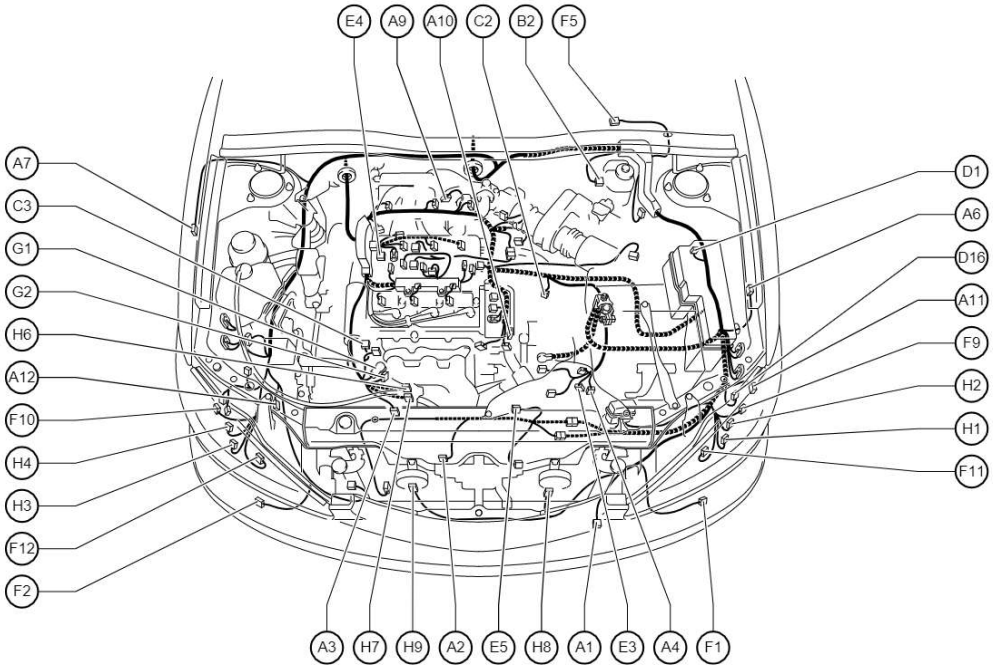
[Junction Connector Inner Circuit]

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



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

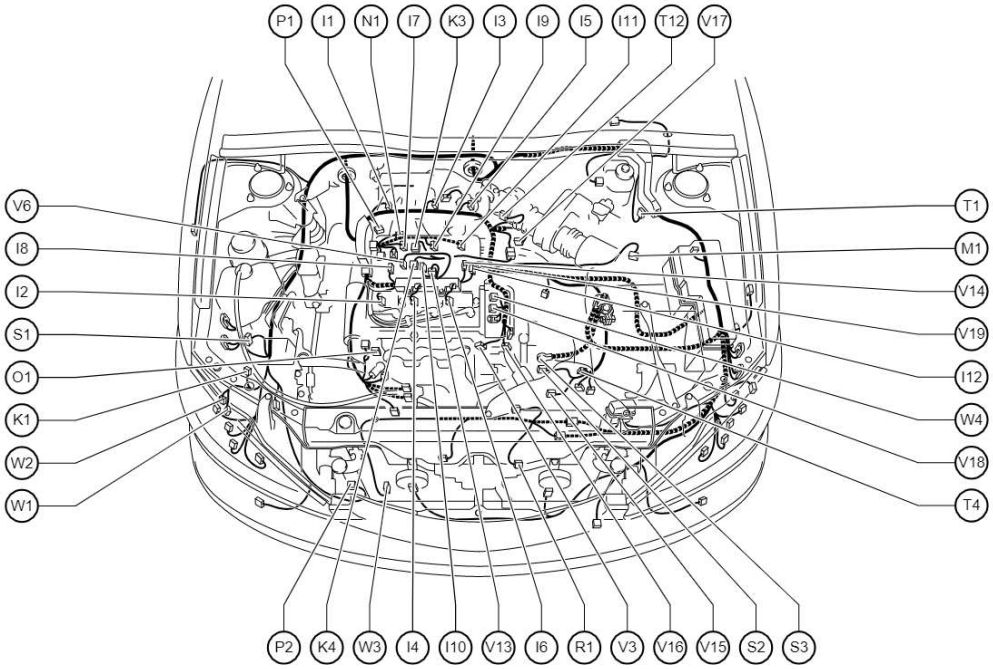
F 1 Front Fog Light LH
F 2 Front Fog Light RH
F 5 Front Wiper Motor
F 9 Front Parking Light LH
F10 Front Parking Light RH
F11 Front Turn Signal Light LH
F12 Front Turn Signal Light RH

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

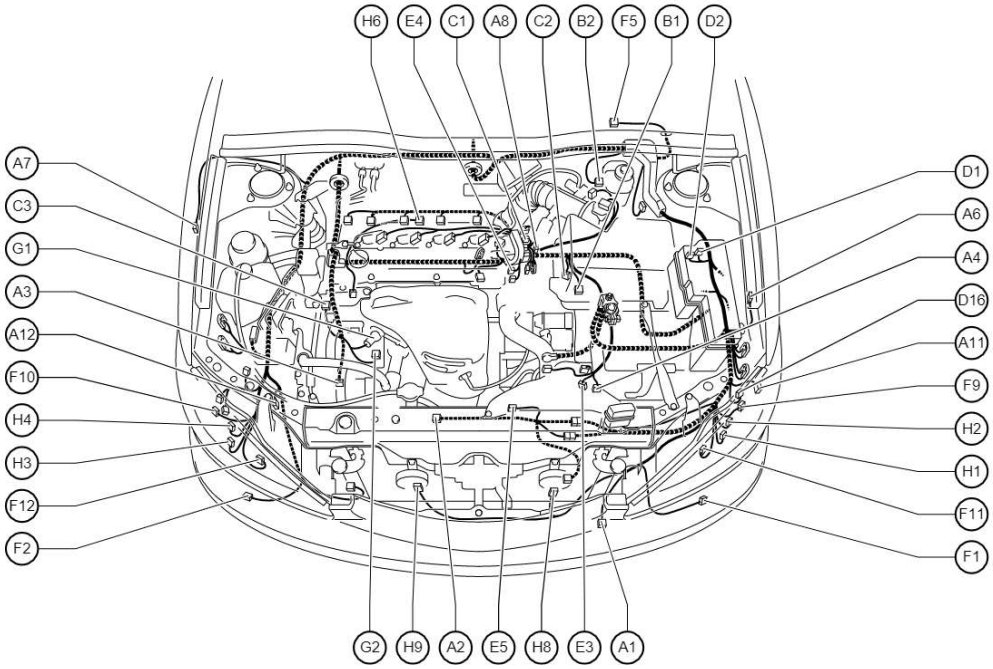
T 1 Theft Deterrent Horn
T 4 Turbine Speed Sensor
T 12 Throttle Control Motor
Throttle Position Sensor

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

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)
D 16 Daytime Running Light Resistor

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

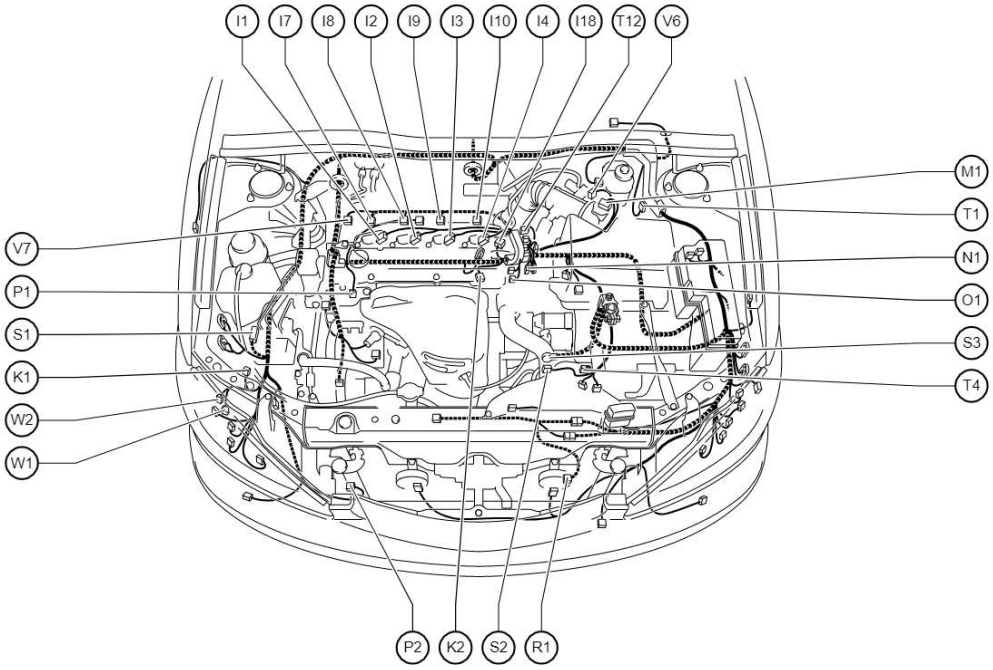
F 1 Front Fog Light LH
F 2 Front Fog Light RH
F 5 Front Wiper Motor
F 9 Front Parking Light LH
F 10 Front Parking Light RH
F 11 Front Turn Signal Light LH
F 12 Front Turn Signal Light RH

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

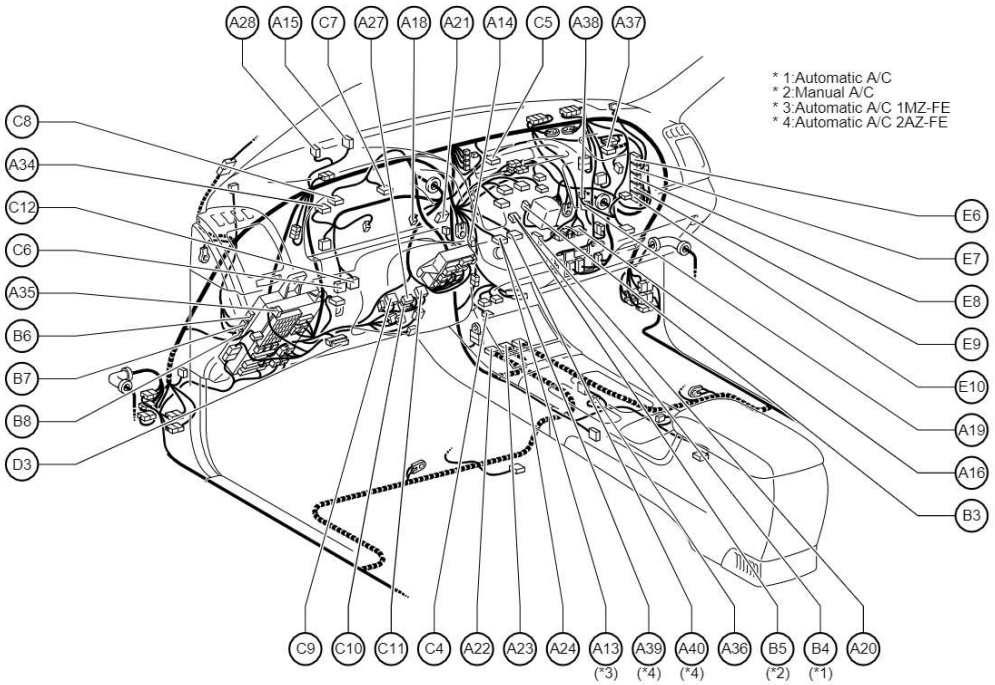
S 1 Skid Control ECU with Actuator
S 2 Starter
S 3 Starter

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

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

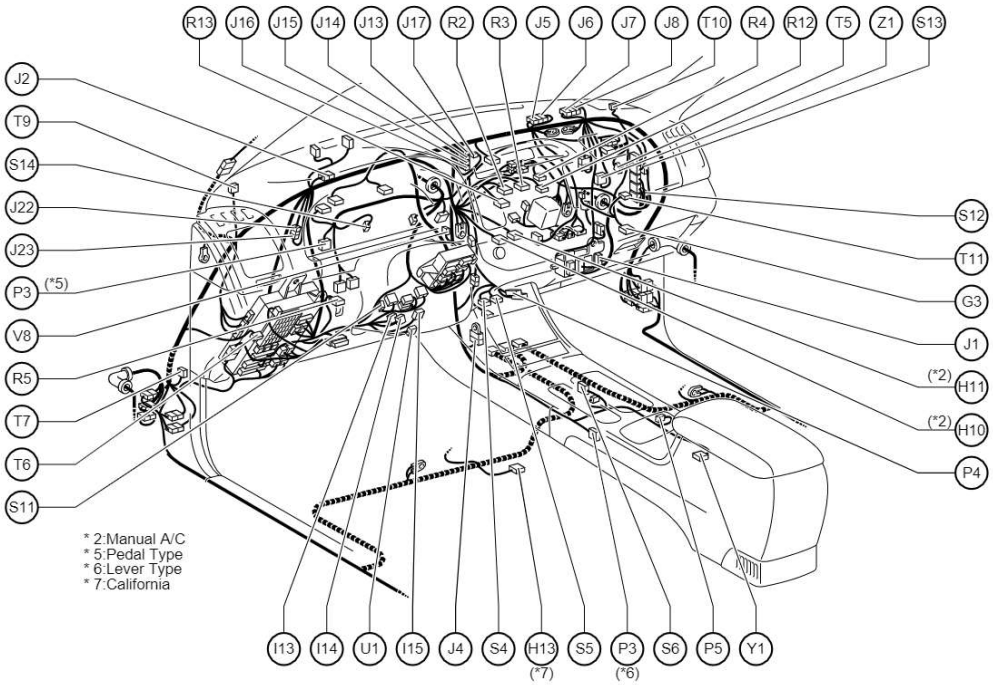
B 3 Blower Motor
B 4 Blower Motor Controller
B 5 Blower Resistor
B 6 Body ECU
B 7 Body ECU
B 8 Body ECU

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
S 11 Steering Sensor
S 12 Stereo Component Amplifier
S 13 Stereo Component Amplifier
S 14 Stop Light SW

T 5 Theft Deterrent ECU
T 6 TRAC OFF SW
T 7 Turn Signal Flasher Relay
T 9 Tweeter LH
T 10 Tweeter RH
T 11 Transponder Key Computer

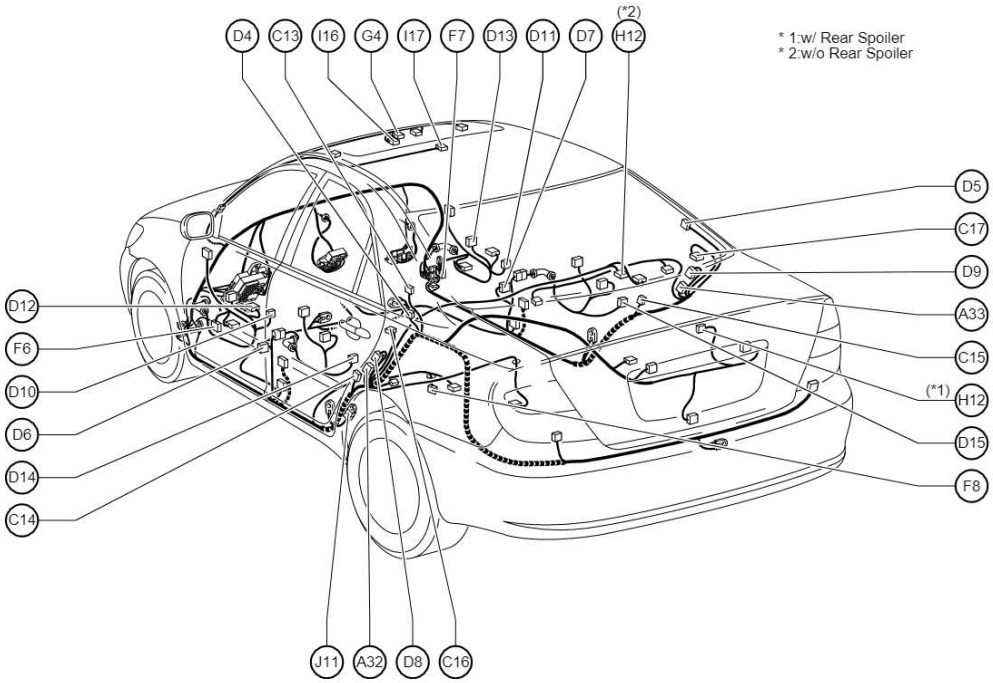
U 1 Unlock Warning SW

V 8 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Z 1 Option Connector (TVIP ECU)

Position of Parts in Body



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

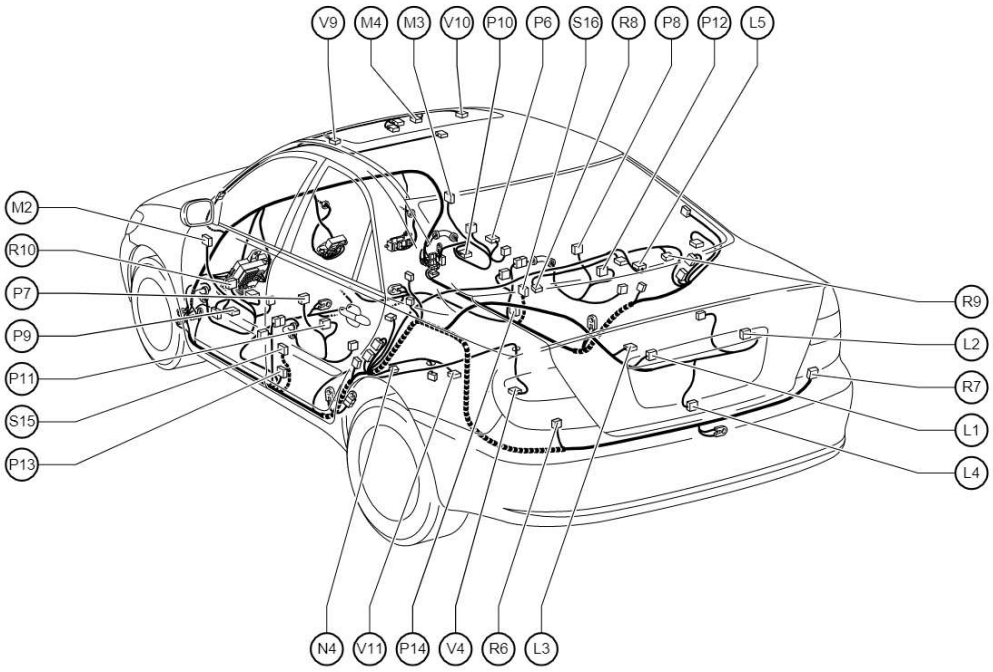
G 4 Garage Door Opener
Moon Roof Control SW
Personal Light

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

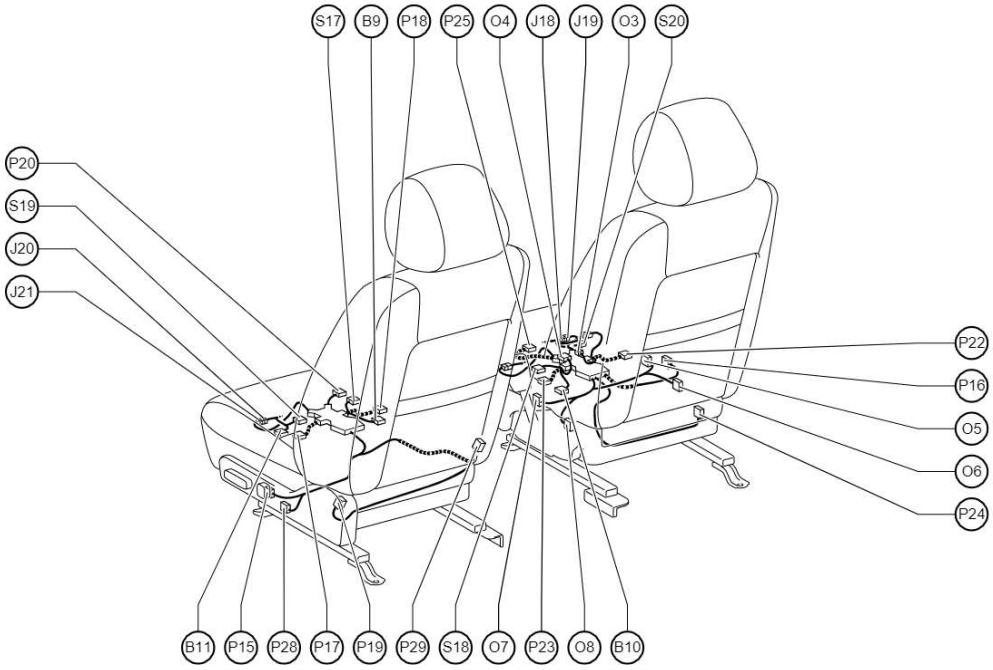
R 6 Rear Combination Light LH
R 7 Rear Combination Light RH
R 8 Rear Speaker LH
R 9 Rear Speaker RH
R10 Remote Control Mirror SW

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

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

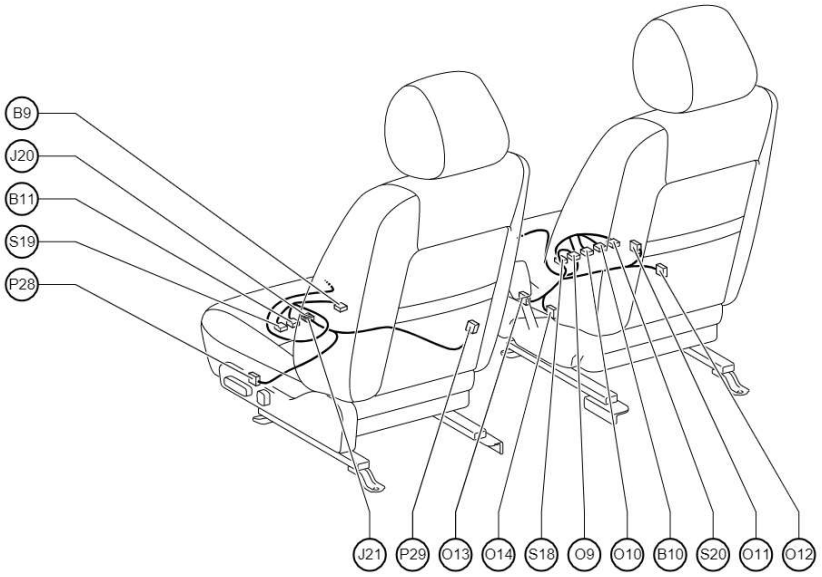
O 3 Occupant Classification ECU
O 4 Occupant Classification ECU
O 5 Occupant Classification Sensor Front RH
O 6 Occupant Classification Sensor Rear RH
O 7 Occupant Classification Sensor Front LH
O 8 Occupant Classification Sensor Rear LH

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

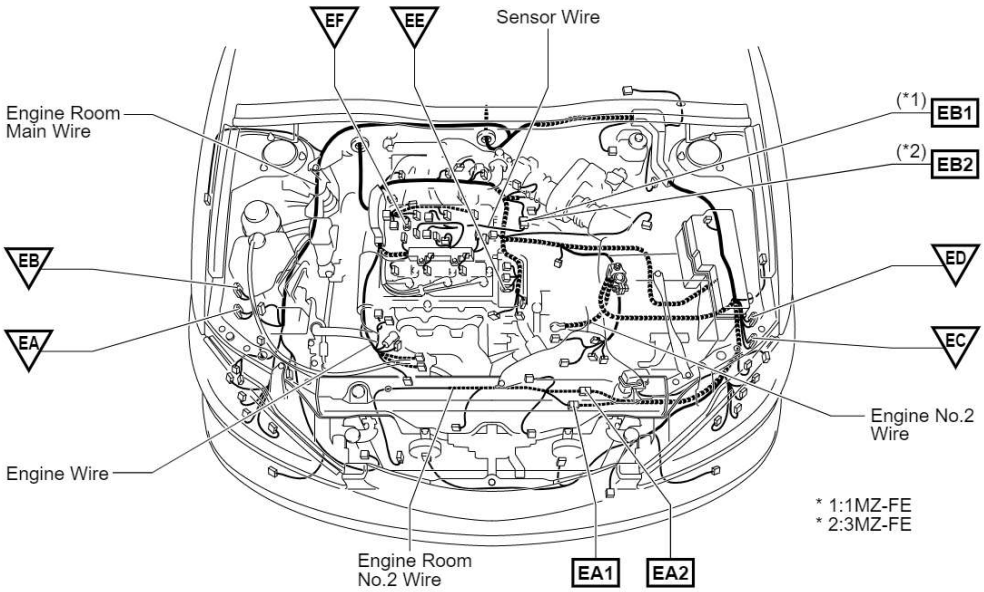
P28 Power Seat Control SW
(Driver's Seat Lumbar Support Control)
P29 Power Seat Motor
(Driver's Seat Lumbar Support Control)

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

G ELECTRICAL WIRING ROUTING

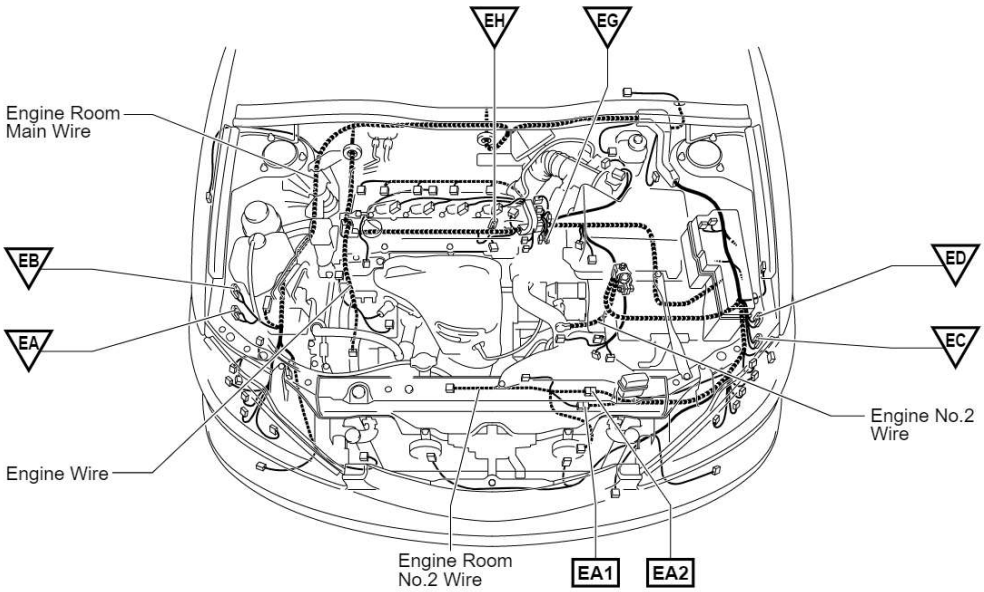
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[1MZ–FE, 3MZ–FE]



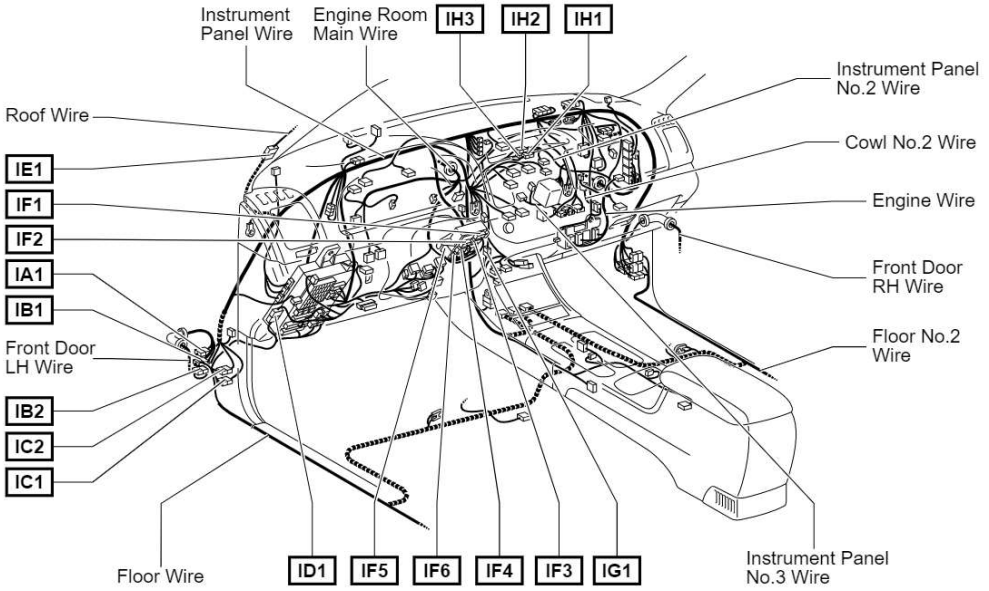
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[2AZ–FE]

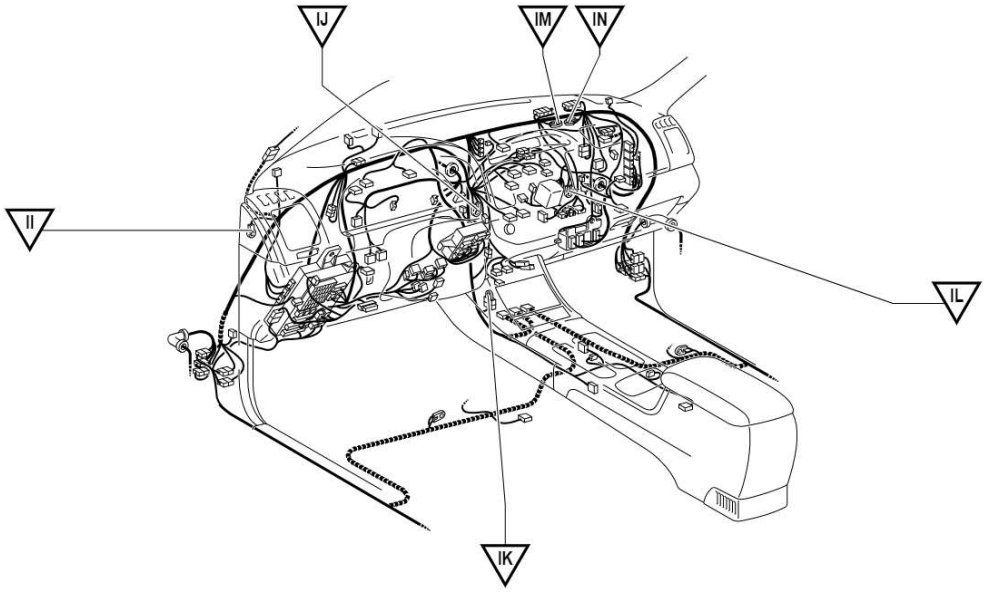


G ELECTRICAL WIRING ROUTING

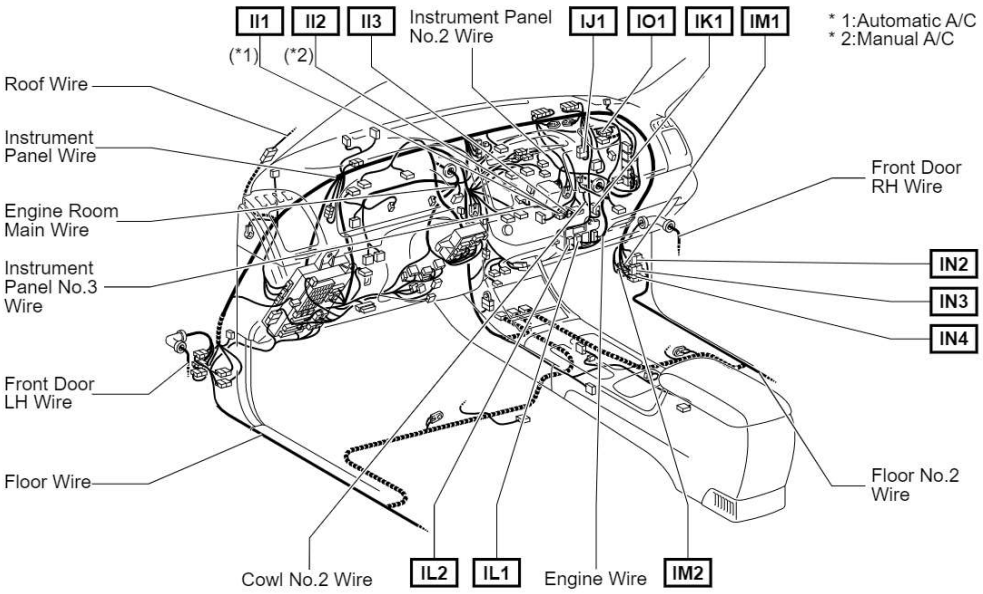
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

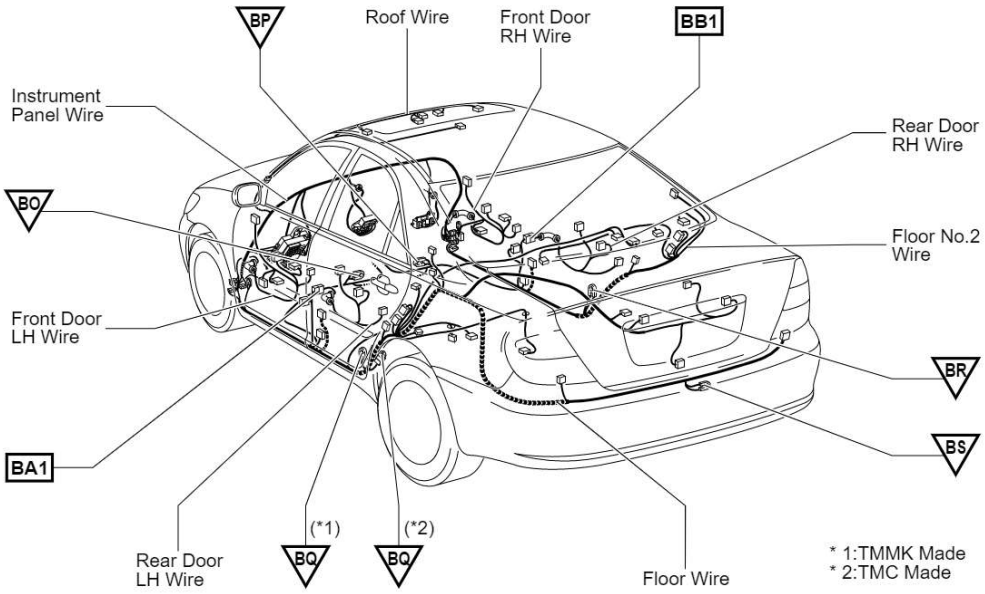


: Location of Connector Joining Wire Harness and Wire Harness



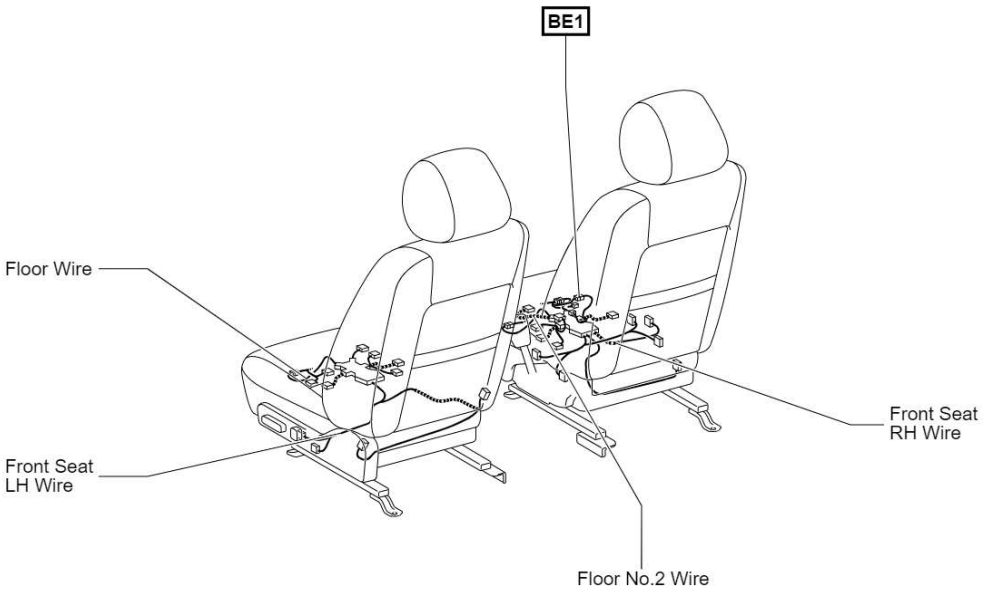
G ELECTRICAL WIRING ROUTING

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



▭ : Location of Connector Joining Wire Harness and Wire Harness

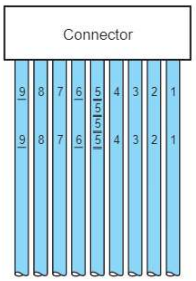
[w/ Power Seat]



2006 CAMRY
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

	Page
ABS (w/ VSC)	160
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Audio System (Built–in Type Amplifier w/o Navigation System)	246
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Light Auto Turn Off System	122
Manual Air Conditioning (1MZ–FE, 3MZ–FE)	272
Manual Air Conditioning (2AZ–FE)	278
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Moon Roof	154
Multiplex Communication System (BEAN)	98
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Navigation System	238
Power Adjustable Pedals	232
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Power Seat	208
Power Source	56
Power Window	156

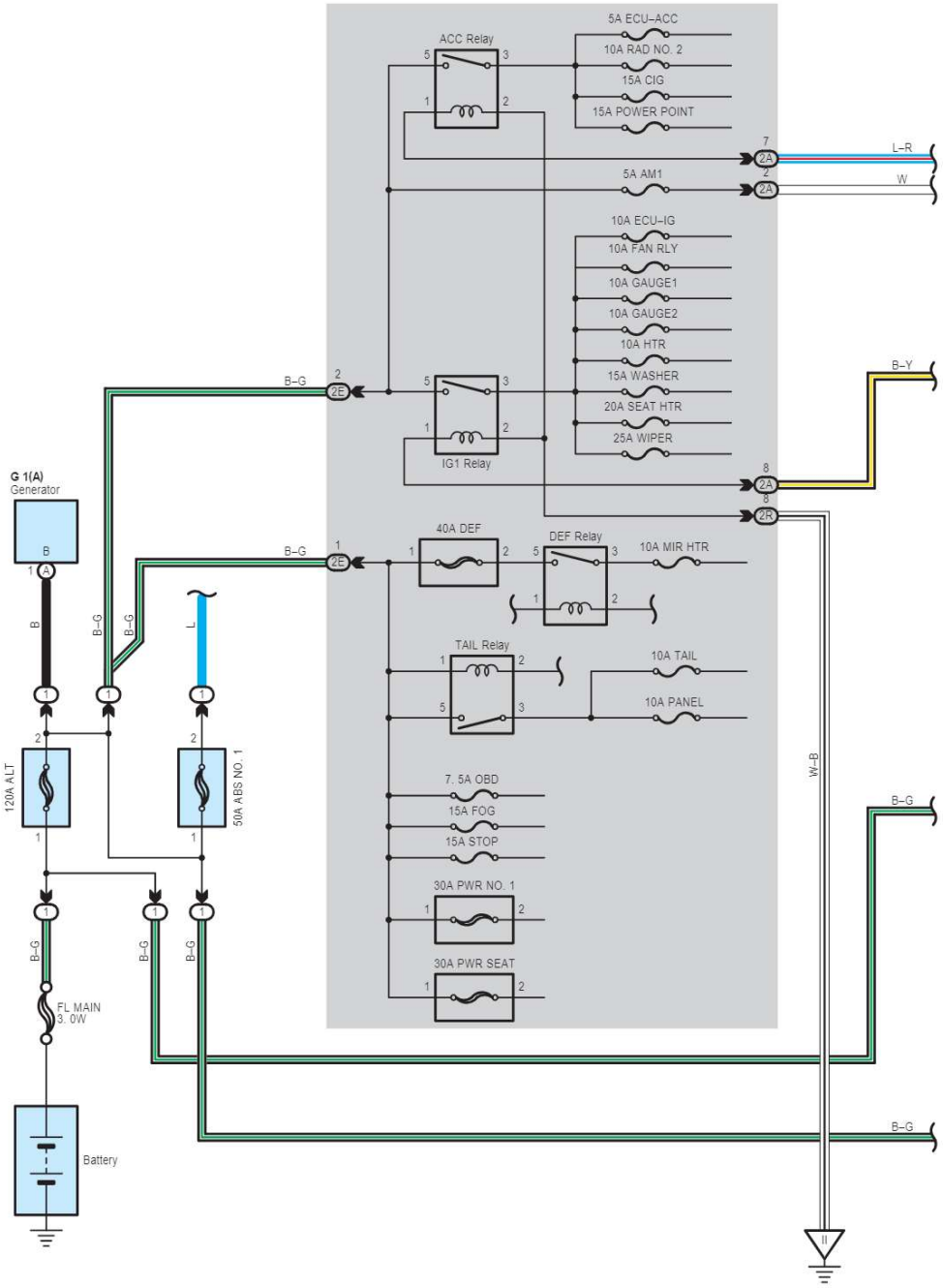
	Page
Radiator Fan and Condenser Fan	254
Rear Window Defogger	230
Remote Control Mirror	218
Seat Belt Warning	214
Seat Heater	212
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SRS	175
Starting (1MZ–FE, 3MZ–FE)	60
Starting (2AZ–FE)	64
Stop Light	136
Taillight	134
Theft Deterrent	142
TRAC	160
Turn Signal and Hazard Warning Light	132
VSC	160
Wiper and Washer	228
Wireless Door Lock Control	148

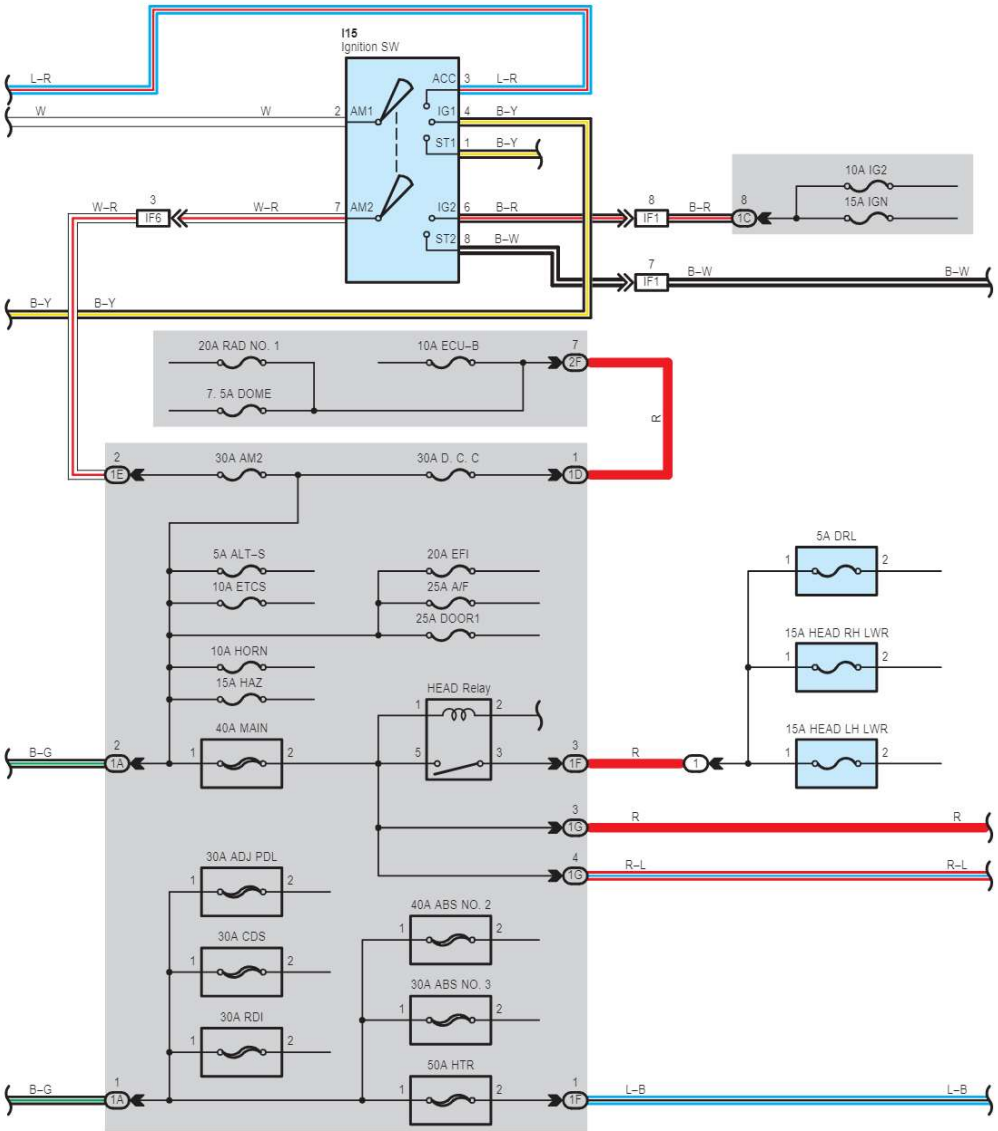


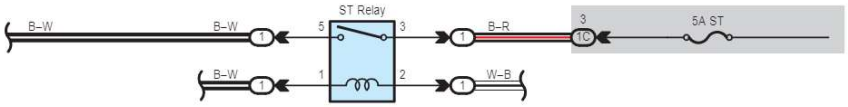
There are two types of wire harness for the instrument panel on CAMRY.

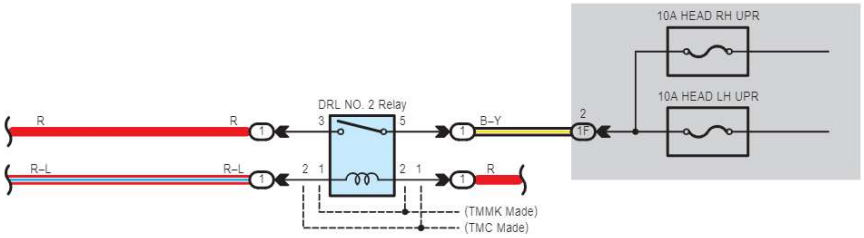
Type A : The wire harness that uses the color–coded wire.
Type B : The wire harness that uses the same colored wire. (Not color–coded)

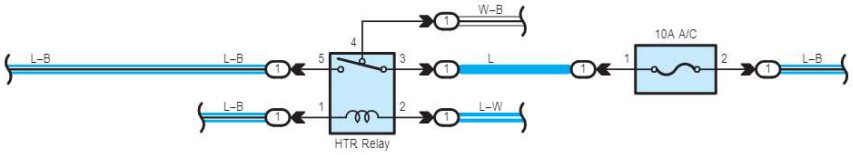
In case of using the same colored wires, each terminal number is printed on the wire as shown in the illustration on the left in order to distinguish each wiring.
Be sure to connect the terminal to the same place as indicated by the terminal number printed on the wire after disconnecting the terminal from the connector.


5A ECU–ACC
ACC Relay
10A RAD NO. 2
15A CIG
15A POWER POINT
L–R
5A AM1
W
10A ECU–IG
10A FAN RLY
10A GAUGE1
10A GAUGE2
10A HTR
15A WASHER
20A SEAT HTR
25A WIPER
B–Y
B–G
IG1 Relay
G 1(A)
Generator
40A DEF
DEF Relay
10A MIR HTR
TAIL Relay
10A TAIL
10A PANEL
7. 5A OBD
15A FOG
15A STOP
30A PWR NO. 1
30A PWR SEAT
W–B
120A ALT
50A ABS NO. 1
FL MAIN
3. 0W
Battery


I15
Ignition SW
ACC
IG1
ST1
AM1
AM2
IG2
ST2
L–R
W
W–R
B–Y
B–R
B–W
10A IG2
15A IGN
20A RAD NO. 1
7.5A DOME
10A ECU–B
30A AM2
30A D. C. C
5A ALT–S
10A ETCS
10A HORN
15A HAZ
40A MAIN
20A EFI
25A A/F
25A DOOR1
HEAD Relay
5A DRL
15A HEAD RH LWR
15A HEAD LH LWR
30A ADJ PDL
30A CDS
30A RDI
40A ABS NO. 2
30A ABS NO. 3
50A HTR
R
R–L
L–B
B–G


ST Relay
B–W
B–W
B–W
B–R
W–B
5A ST
1C


10A HEAD RH UPR
10A HEAD LH UPR
DRL NO. 2 Relay
R
R
R–L
R–L
B–Y
R
1F
(TMMK Made)
(TMC Made)


W–B
10A A/C
L–B
L–B
L–B
L
L–W
L–B
HTR Relay

○ : 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)

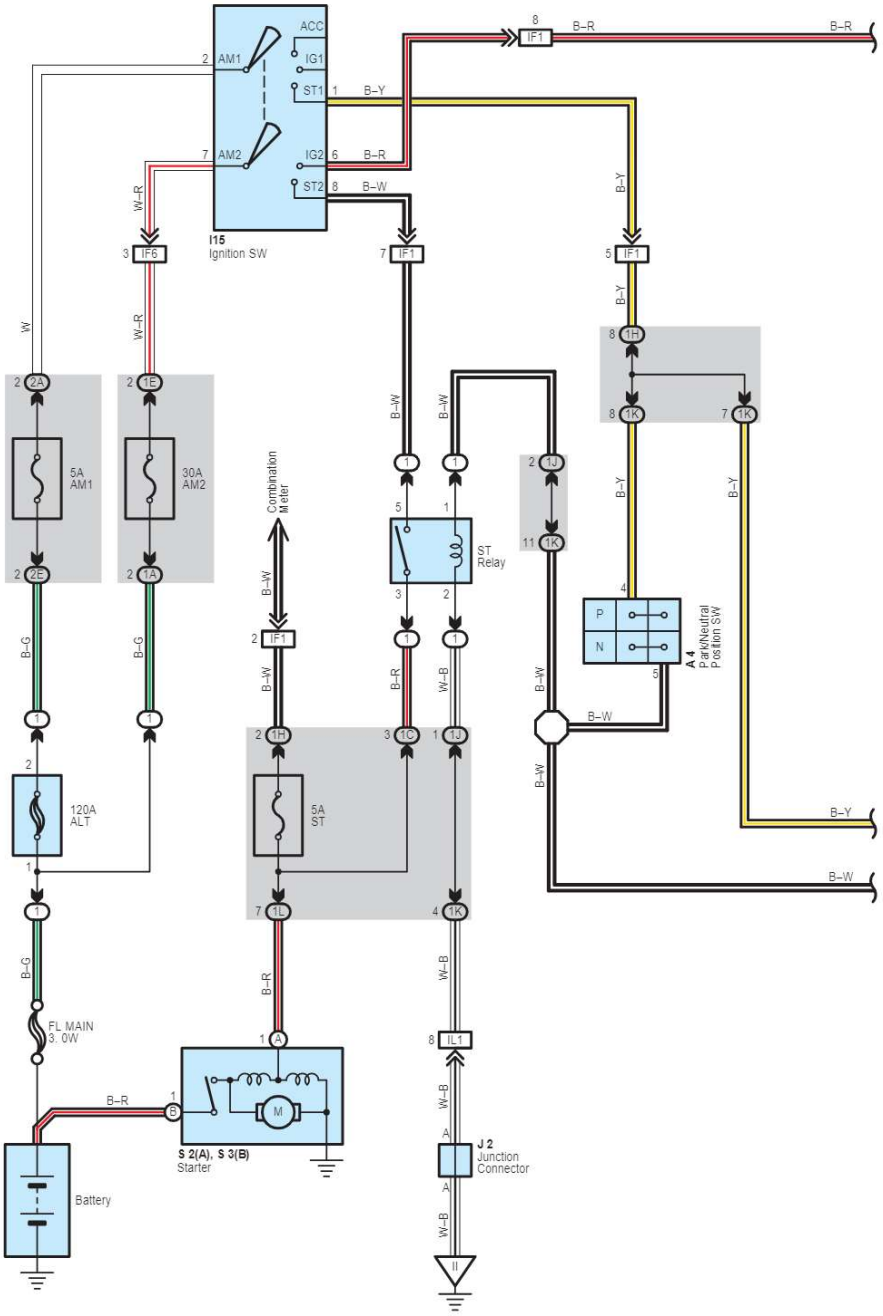
▭ : Connector Joining Wire Harness and Wire Harness

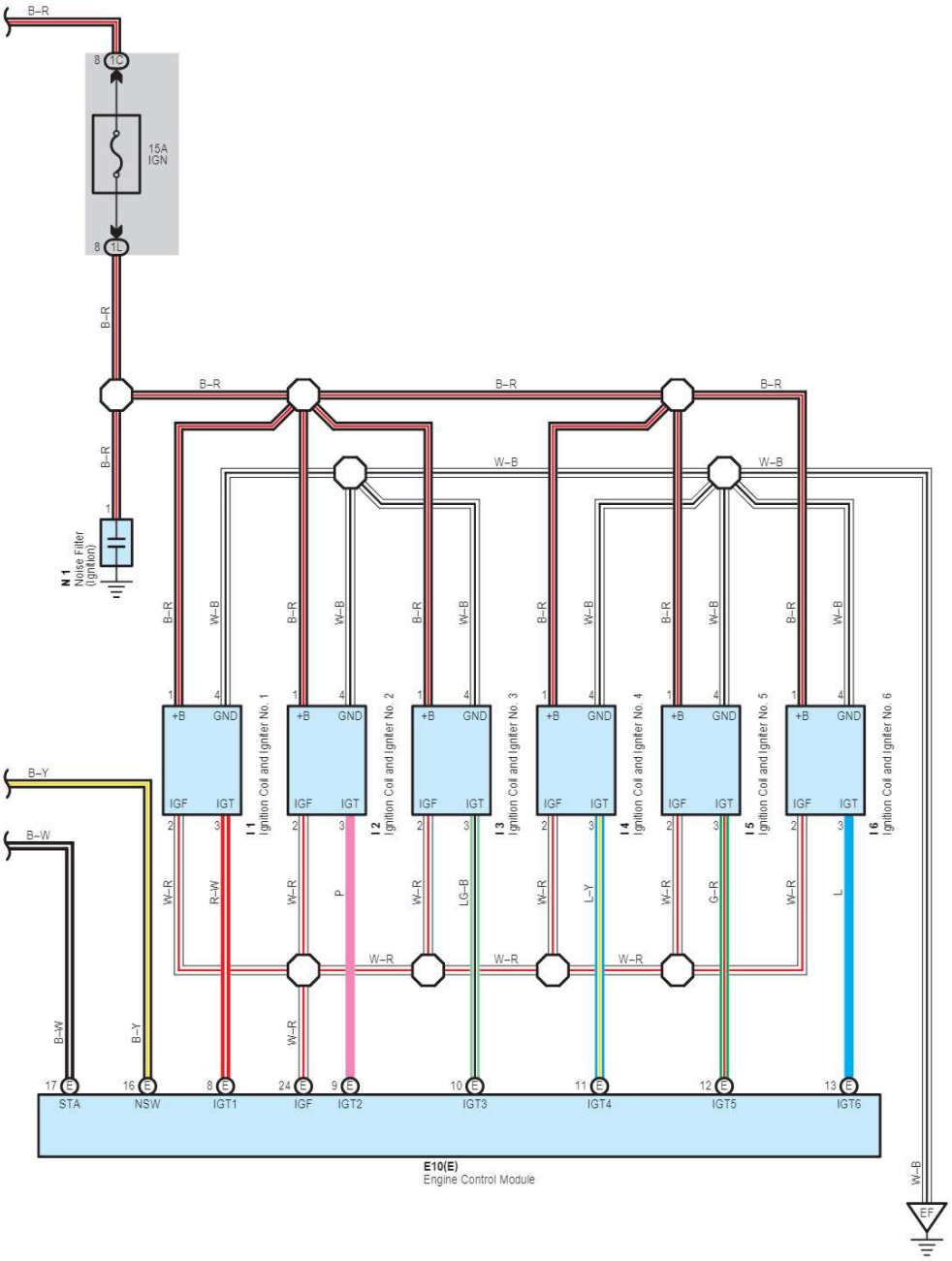
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		

▽ : 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


ACC
AM1
IG1
ST1
AM2
IG2
ST2
I15
Ignition SW
IF1
IF6
B–R
B–Y
W–R
W
B–W
5A
AM1
30A
AM2
120A
ALT
5A
ST
ST
Relay
Combination
Meter
1H
1K
1J
1E
1A
2E
2A
1F
1C
1L
IL1
P
N
A 4
Park/Neutral
Position SW
B–G
FL MAIN
3. 0W
S 2(A), S 3(B)
Starter
M
Battery
J 2
Junction
Connector
W–B


B–R
1C
15A
IGN
1L
B–R
B–R
B–R
B–R
B–R
W–B
W–B
1
N 1
Noise Filter
(Ignition)
B–R
W–B
1
4
+B
GND
IGF
IGT
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
2
3
W–R
R–W
P
LG–B
L–Y
G–R
L
W–R
B–Y
B–W
17 E
STA
16 E
NSW
8 E
IGT1
24 E
IGF
9 E
IGT2
10 E
IGT3
11 E
IGT4
12 E
IGT5
13 E
IGT6
E10(E)
Engine Control Module
W–B
EF

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)

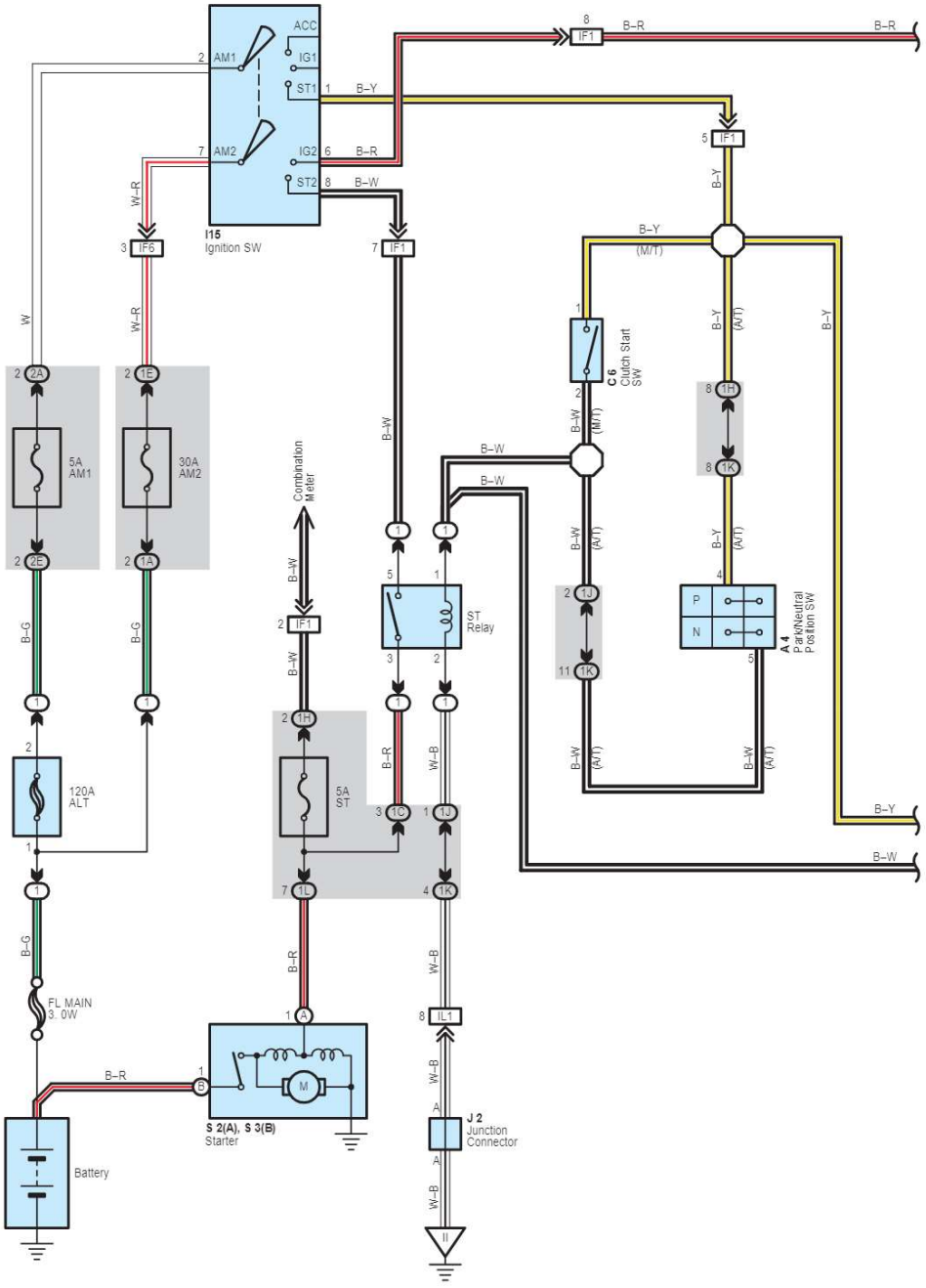
: Connector Joining Wire Harness and Wire Harness

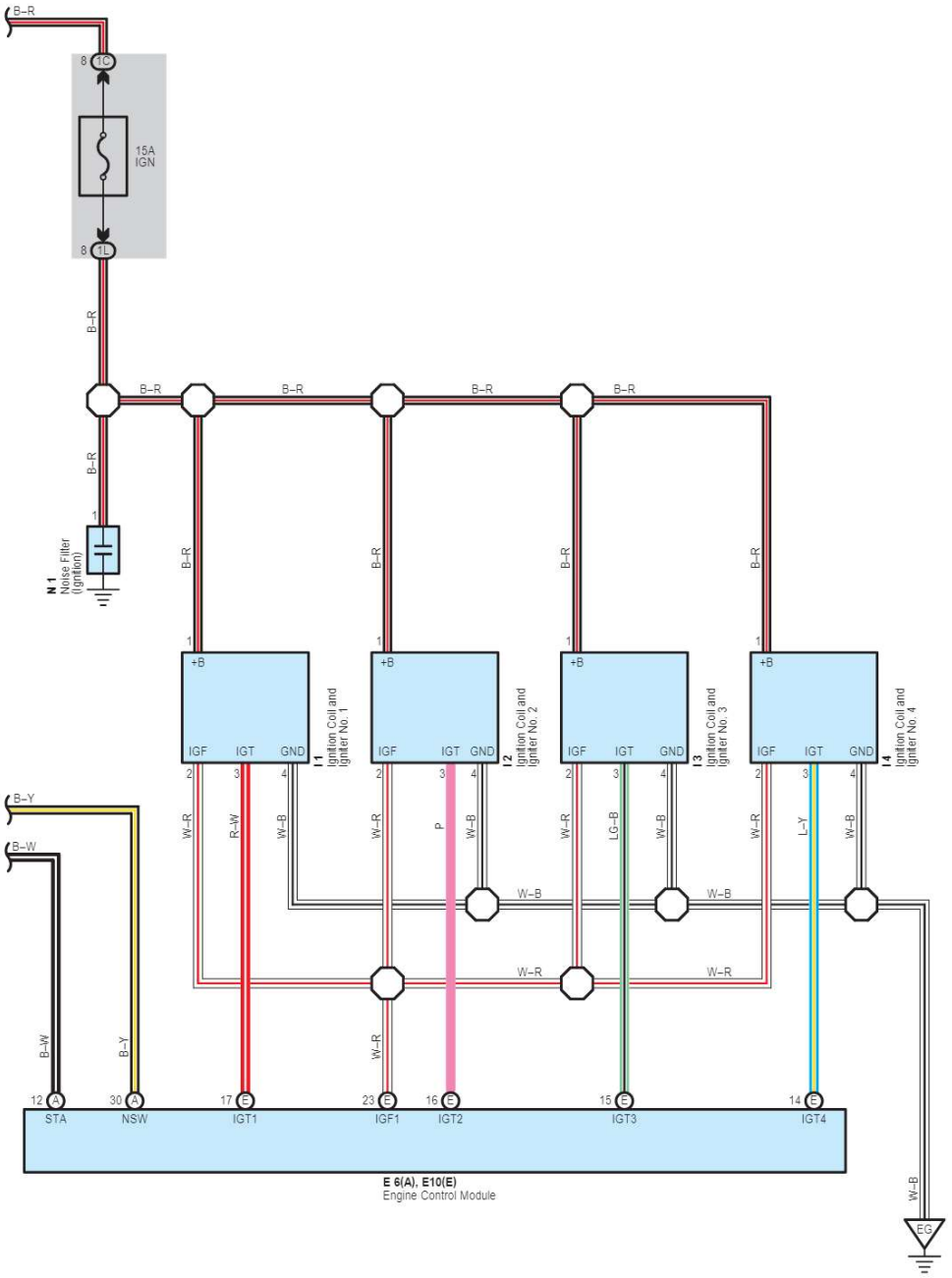
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: 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


I15
Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
IF1
IF6
B–R
B–Y
B–W
W–R
W
5A
AM1
30A
AM2
120A
ALT
5A
ST
ST
Relay
Combination
Meter
C6
Clutch Start
SW
(M/T)
(A/T)
A4
Park/Neutral
Position SW
P
N
FL MAIN
3. 0W
S 2(A), S 3(B)
Starter
M
Battery
J 2
Junction
Connector
B–G
W–B


B–R
8 7C
15A IGN
8 1L
B–R
B–R
B–R
B–R
B–R
1
N 1 Noise Filter (Ignition)
B–R
B–R
B–R
B–R
1
+B
IGF IGT GND
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
2 3 4
W–R
R–W
W–B
P
LG–B
L–Y
B–Y
B–W
W–B
W–R
12 A STA
30 A NSW
17 E IGT1
23 E IGF1
16 E IGT2
15 E IGT3
14 E IGT4
E 6(A), E10(E)
Engine Control Module
W–B
E6

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)

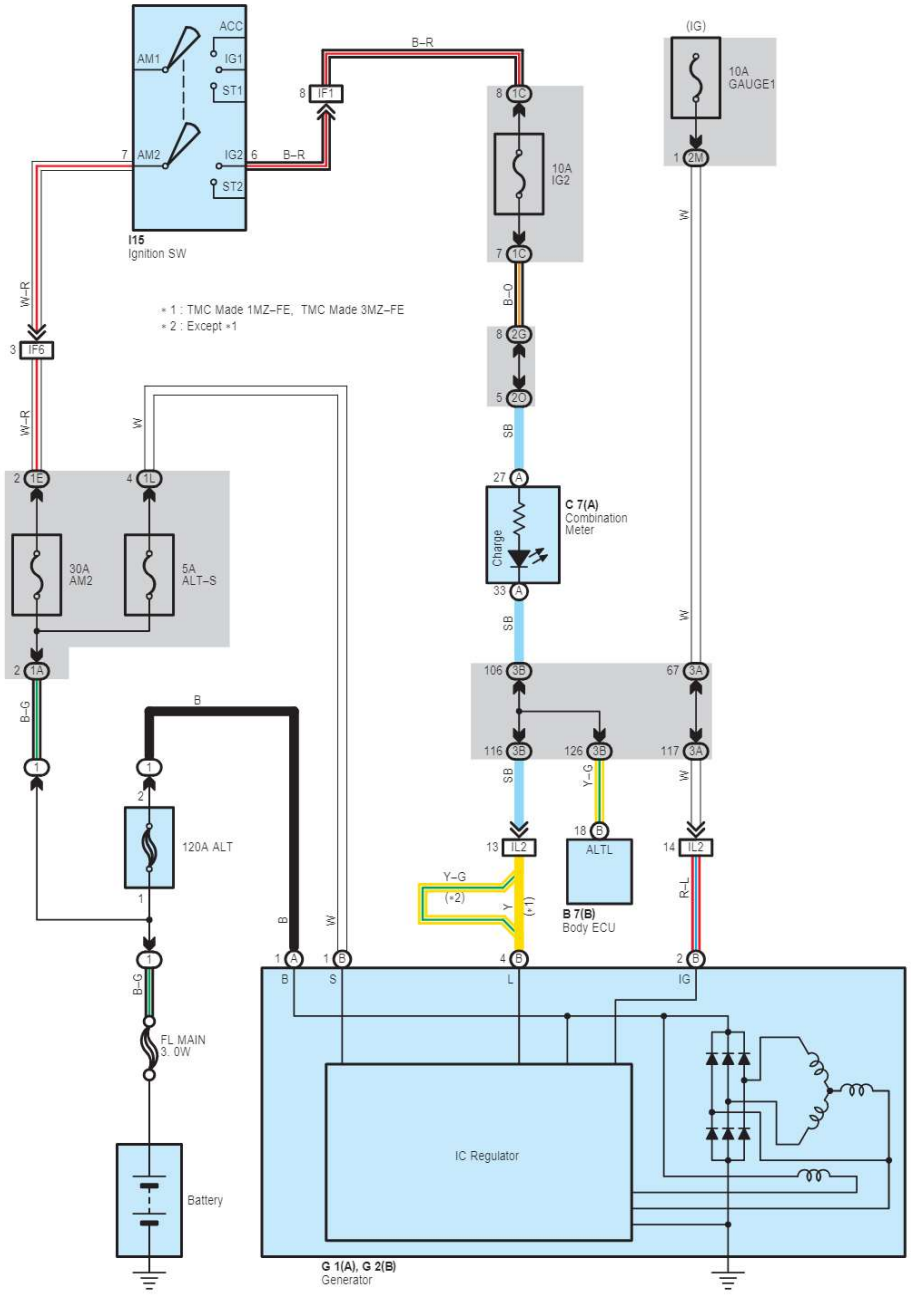
: Connector Joining Wire Harness and Wire Harness

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


ACC
AM1
IG1
ST1
AM2
IG2
ST2
I15
Ignition SW
B–R
IF1
1C
10A
IG2
(IG)
10A
GAUGE1
2M
W
W–R
IF6
B–O
2G
2O
SB
2E
1E
4L
1L
30A
AM2
5A
ALT–S
27
A
C 7(A)
Combination
Meter
Charge
33
A
W
2A
1A
B–G
106
3B
67
3A
116
3B
126
3B
117
3A
B
120A ALT
Y–G
(*2)
Y
(*1)
13
IL2
18
B
ALTL
14
IL2
R–L
B 7(B)
Body ECU
1
A
1
B
4
B
2
B
B
S
L
IG
IC Regulator
FL MAIN
3. 0W
Battery
G 1(A), G 2(B)
Generator
* 1 : TMC Made 1MZ–FE, TMC Made 3MZ–FE
* 2 : Except *1

○ : **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)

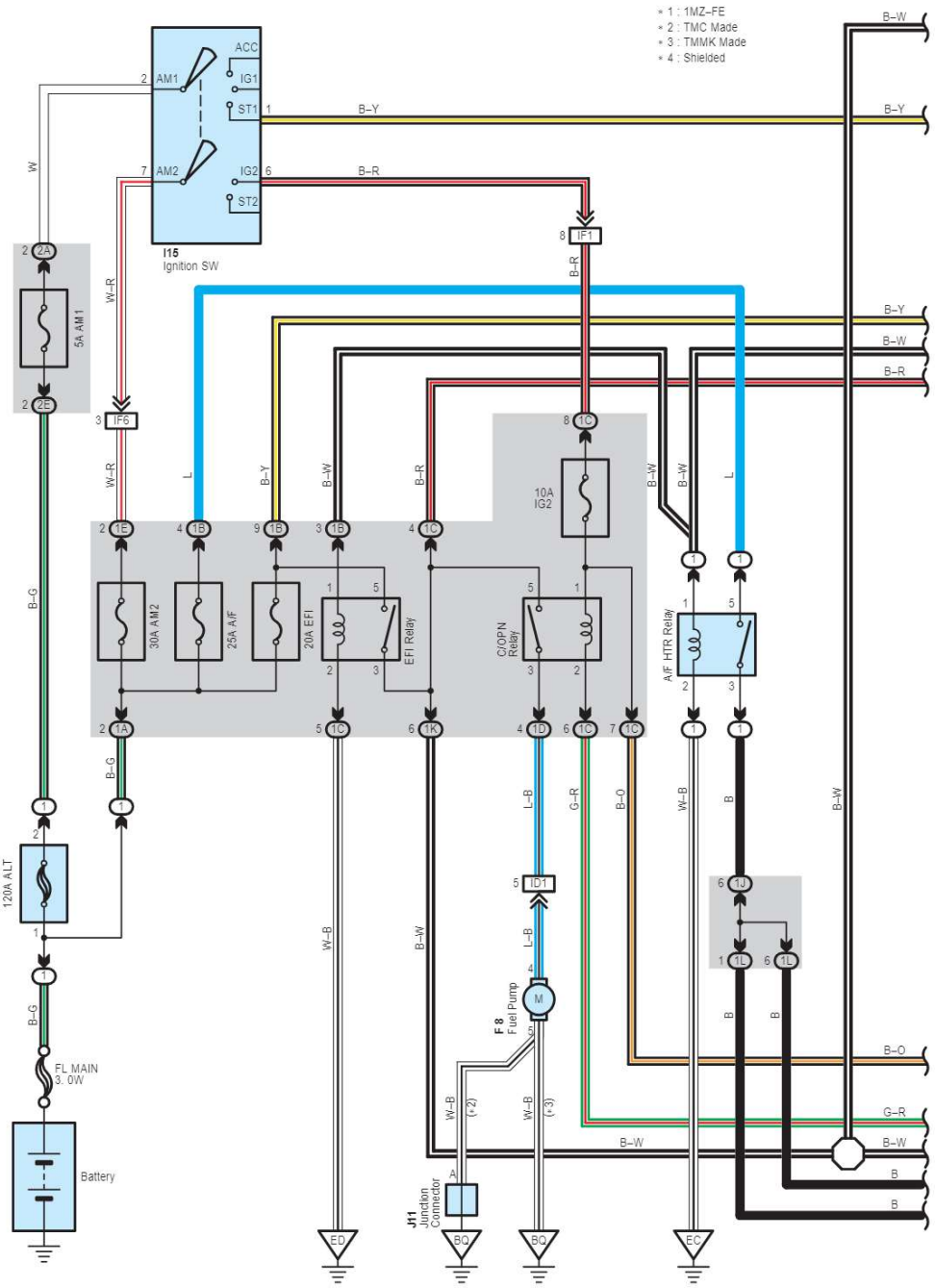
⬭ : **Junction Block and Wire Harness Connector**

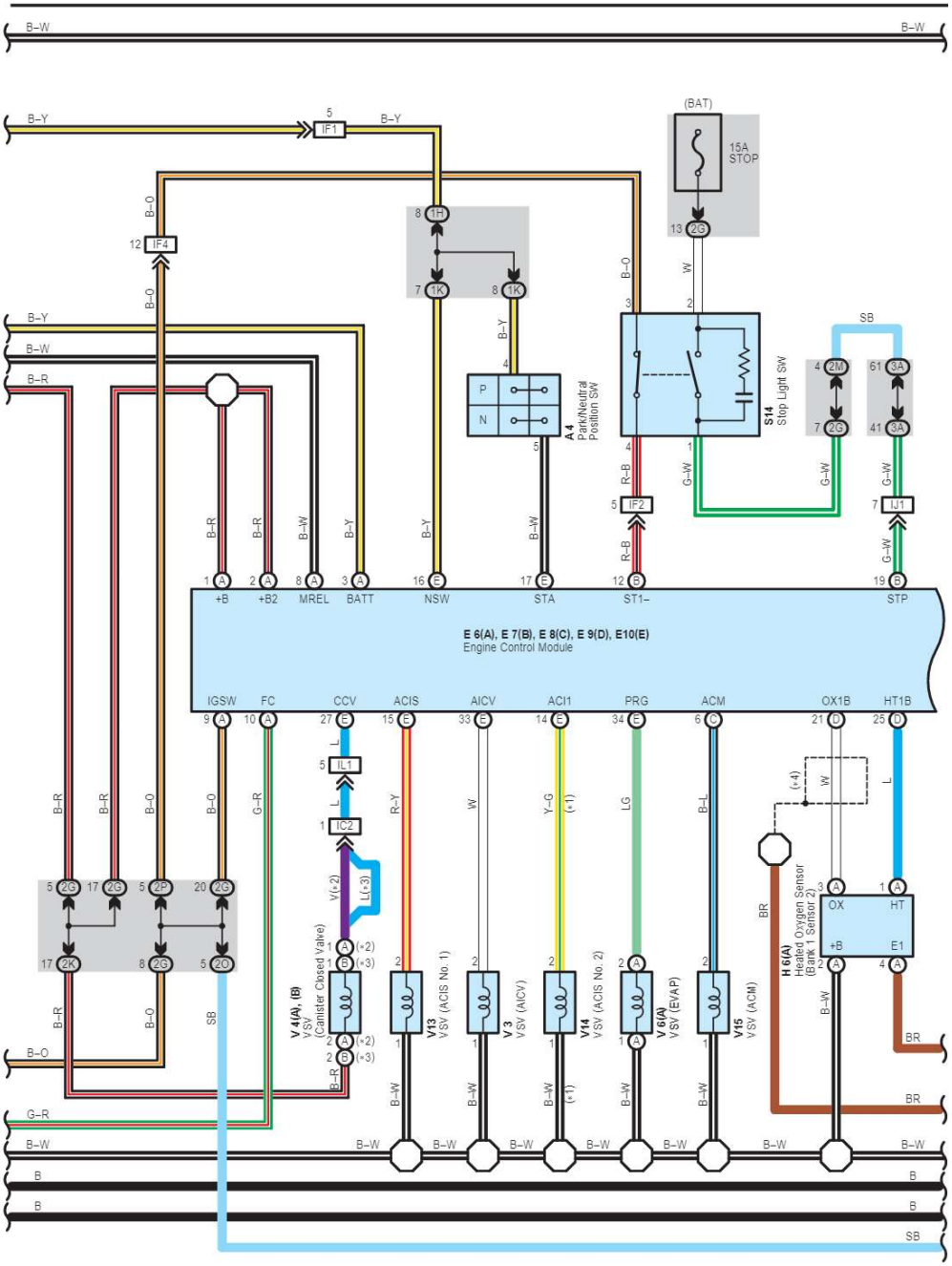
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1L	25	Engine Wire and Engine Room J/B (Engine Compartment Left)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument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

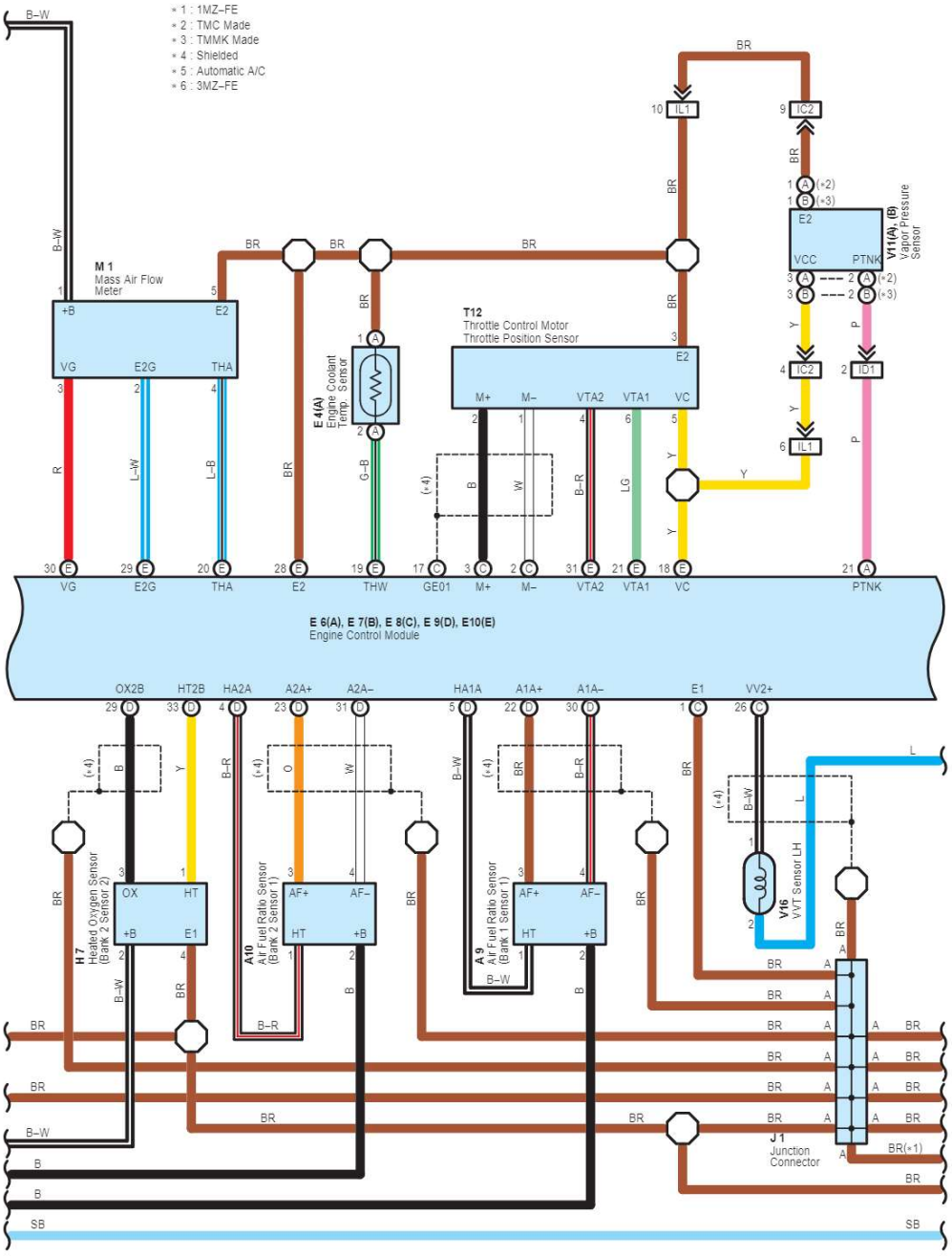
▭ : **Connector Joining Wire Harness and Wire Harness**

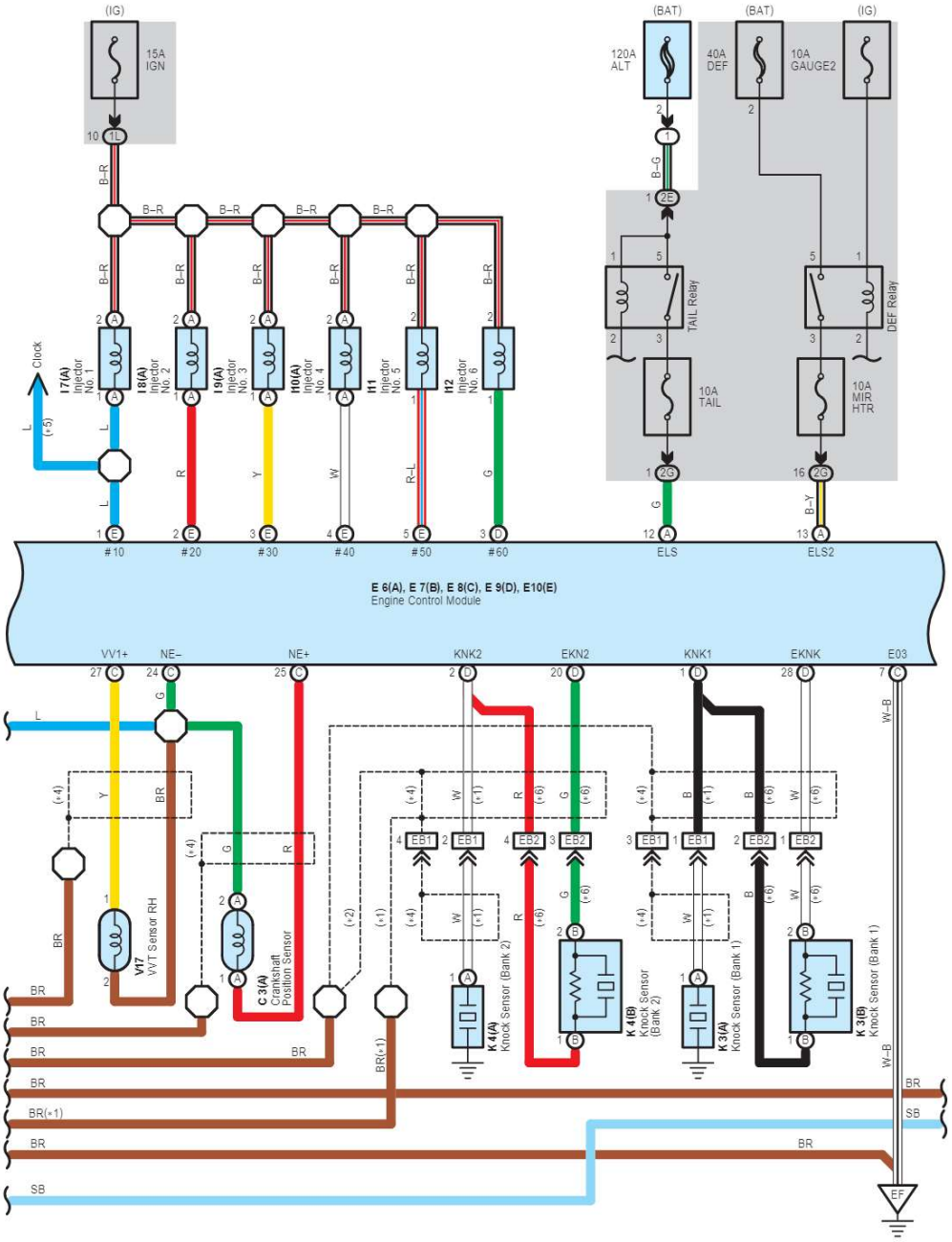
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF6		
IL2	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

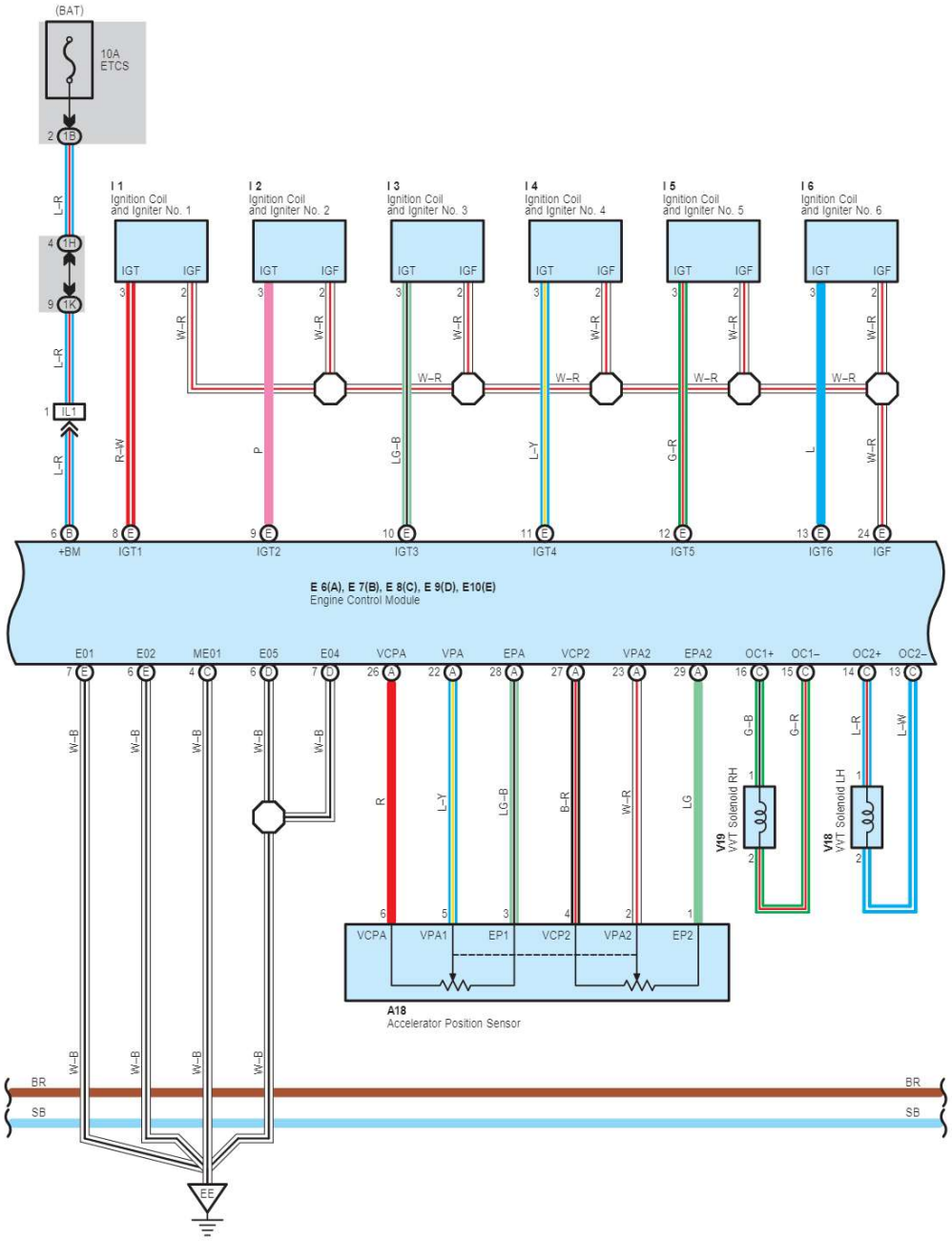
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat


* 1 : 1MZ–FE
* 2 : TMC Made
* 3 : TMMK Made
* 4 : Shielded
I15
Ignition SW
ACC
IG1
ST1
AM1
AM2
IG2
ST2
5A AM1
30A AM2
25A A/F
20A EFI
EFI Relay
10A IG2
C/OPN Relay
A/F HTR Relay
120A ALT
FL MAIN 3. 0W
Battery
F 8
Fuel Pump
J11
Junction Connector
B–W
B–Y
B–R
W–R
B–G
L
B–Y
B–W
B–R
L–B
G–R
B–O
W–B
B
E0
BQ
BQ
EC

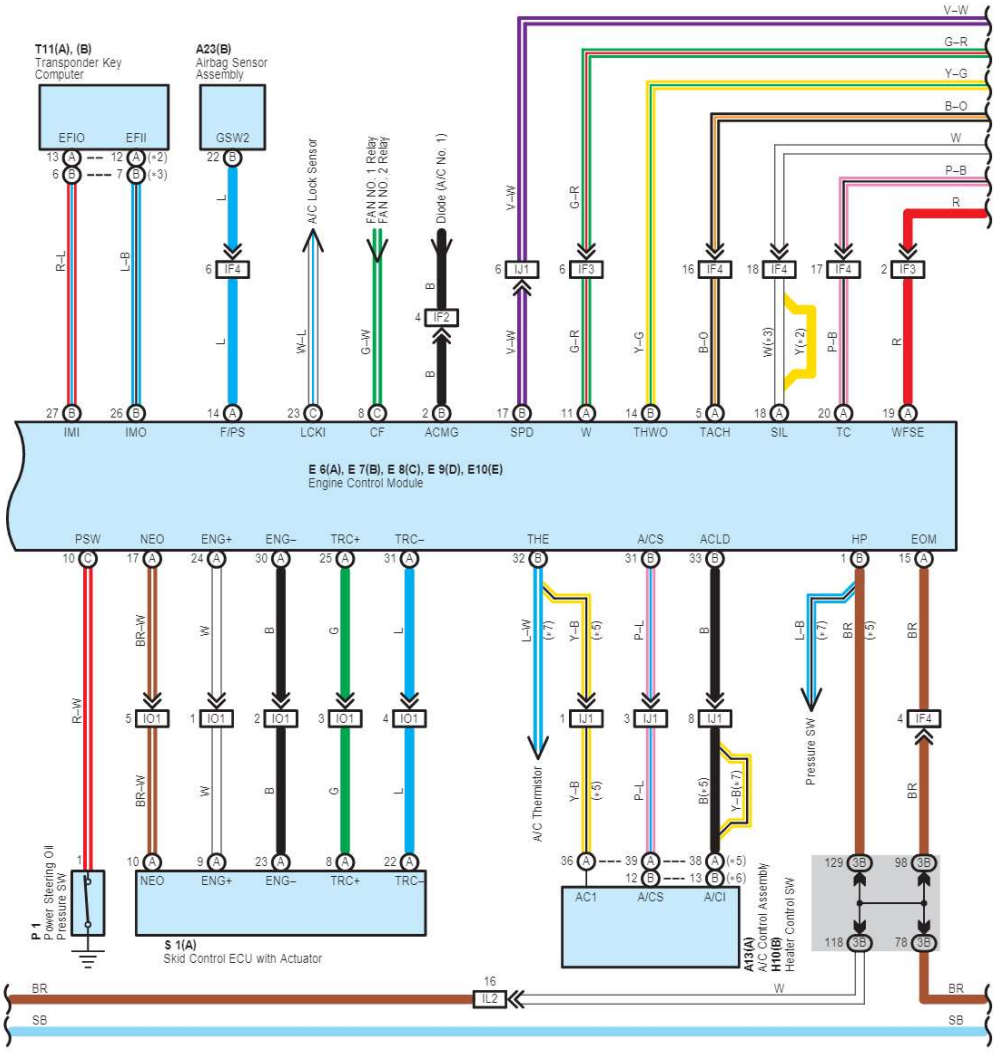

B–W
B–W
B–Y
5
IF1
B–Y
(BAT)
15A
STOP
13
2S
12
IF4
B–O
8
1H
7
1K
8
1K
B–Y
4
P
N
A4
Park/Neutral
Position SW
5
B–O
3
W
2
S14
Stop Light SW
SB
4
2M
7
2G
61
3A
41
3A
G–W
G–W
G–W
B–Y
B–W
B–R
B–R
B–W
B–Y
B–Y
B–W
R–B
R–B
5
IF2
7
IJ1
G–W
1
A
+B
2
A
+B2
8
A
MREL
3
A
BATT
16
E
NSW
17
E
STA
12
B
ST1–
19
B
STP
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
IGSW
FC
CCV
ACIS
AICV
ACI1
PRG
ACM
OX1B
HT1B
9
A
10
A
27
E
15
E
33
E
14
E
34
E
6
C
21
D
25
D
L
5
IL1
1
IC2
L
V(+2)
L(+3)
B–R
B–R
B–O
B–O
G–R
R–Y
W
Y–G
(+1)
LG
B–L
(+4)
W
L
5
2G
17
2G
5
2P
20
2G
17
2K
8
2G
5
2O
1
A
(+2)
1
B
(+3)
V 4(A), (B)
VSV
(Canister Closed Valve)
2
A
(+2)
2
B
(+3)
B–R
B–O
SB
B–O
G–R
V13
VSV (ACIS No. 1)
V3
VSV (AICV)
V14
VSV (ACIS No. 2)
V 6(A)
VSV (EVAP)
V15
VSV (ACM)
B–W
B–W
B–W
B–W
B–W
B–W
B–W
(*1)
3
A
OX
HT
+B
E1
2
A
4
A
H 6(A)
Heated Oxygen Sensor
(Bank 1 Sensor 2)
BR
BR
BR
B–W
B–W
B–W
B–W
B–W
B–W
B–W
B
B
B
B
SB

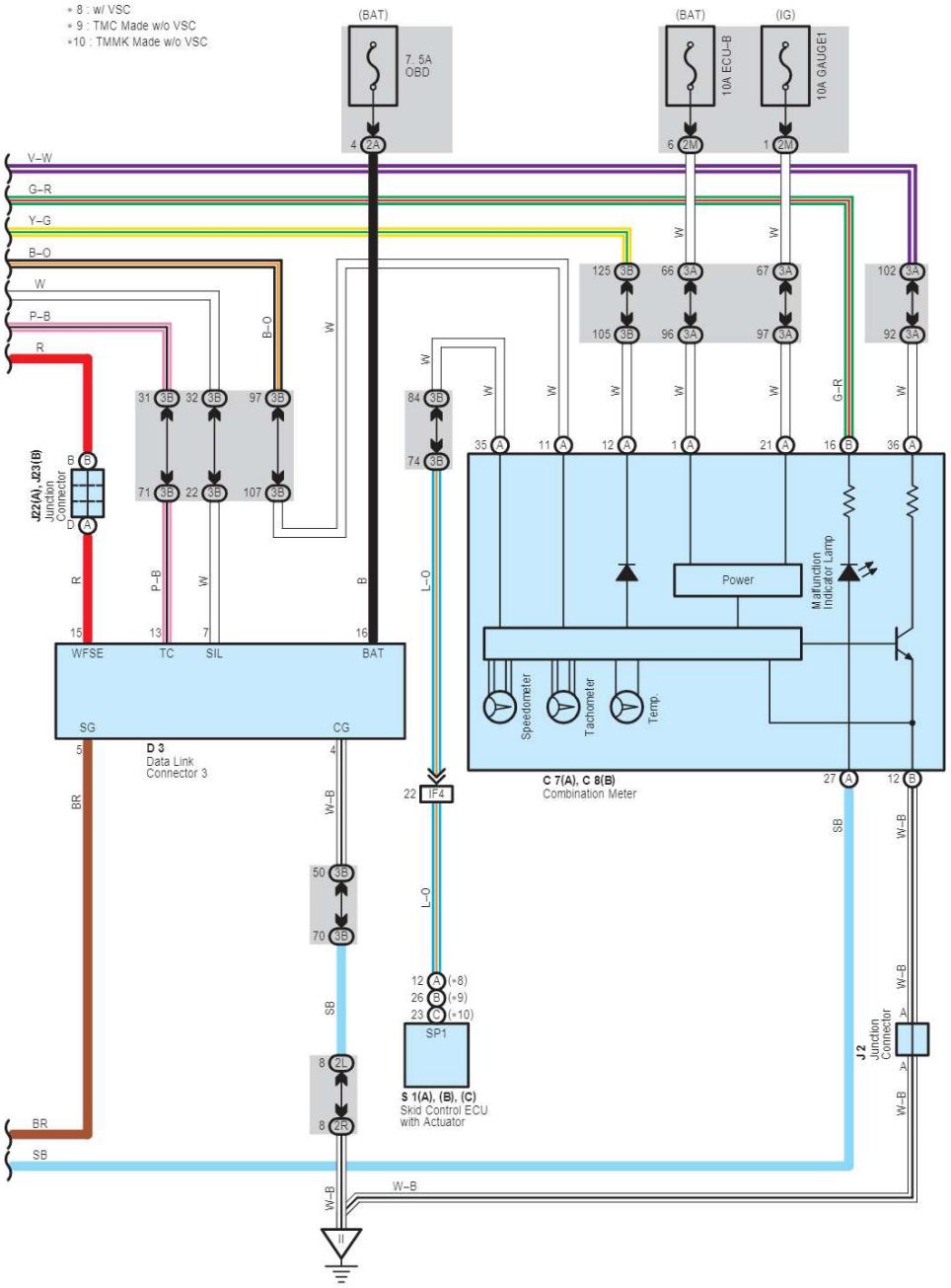

* 1 : 1MZ–FE
* 2 : TMC Made
* 3 : TMMK Made
* 4 : Shielded
* 5 : Automatic A/C
* 6 : 3MZ–FE
M 1
Mass Air Flow Meter
+B
E2
VG
E2G
THA
E4(A)
Engine Coolant Temp. Sensor
THW
T12
Throttle Control Motor
Throttle Position Sensor
M+
M–
VTA2
VTA1
VC
V11(A), (B)
Vapor Pressure Sensor
VCC
PTNK
IC2
ID1
IL1
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
OX2B
HT2B
HA2A
A2A+
A2A–
HA1A
A1A+
A1A–
E1
VV2+
H 7
Heated Oxygen Sensor (Bank 2 Sensor 2)
OX
HT
+B
E1
A10
Air Fuel Ratio Sensor (Bank 2 Sensor 1)
AF+
AF–
A 9
Air Fuel Ratio Sensor (Bank 1 Sensor 1)
V16
VVT Sensor LH
J 1
Junction Connector
BR(+1)
SB


(IG)
15A IGN
(BAT)
120A ALT
(BAT)
40A DEF
(IG)
10A GAUGE2
TAIL Relay
DEF Relay
10A TAIL
10A MIR HTR
Clock
I7(A) Injector No. 1
I8(A) Injector No. 2
I9(A) Injector No. 3
I10(A) Injector No. 4
I11 Injector No. 5
I12 Injector No. 6
#10
#20
#30
#40
#50
#60
ELS
ELS2
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
VV1+
NE–
NE+
KNK2
EKN2
KNK1
EKNK
E03
V17 VVT Sensor RH
C 3(A) Crankshaft Position Sensor
K 4(B) Knock Sensor (Bank 2)
K 4(A) Knock Sensor (Bank 2)
K 3(A) Knock Sensor (Bank 1)
K 3(B) Knock Sensor (Bank 1)
EF


(BAT)
10A
ETCS
2 1B
L–R
4 1H
9 1K
L–R
1 IL1
L–R
6 B
+BM
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
IGT
IGF
W–R
R–W
P
LG–B
L–Y
G–R
L
8 E
IGT1
9 E
IGT2
10 E
IGT3
11 E
IGT4
12 E
IGT5
13 E
IGT6
24 E
IGF
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
E01
E02
ME01
E05
E04
VCPA
VPA
EPA
VCP2
VPA2
EPA2
OC1+
OC1–
OC2+
OC2–
W–B
R
L–Y
LG–B
B–R
W–R
LG
G–B
G–R
L–R
L–W
V19
VVT Solenoid RH
V18
VVT Solenoid LH
VCPA
VPA1
EP1
VCP2
VPA2
EP2
A18
Accelerator Position Sensor
BR
SB
EE

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




* 8 : w/ VSC
* 9 : TMC Made w/o VSC
*10 : TMMK Made w/o VSC
(BAT)
7. 5A OBD
(BAT)
10A ECU-B
(IG)
10A GAUGE1
V–W
G–R
Y–G
B–O
W
P–B
R
J22(A), J23(B) Junction Connector
WFSE
TC
SIL
BAT
SG
CG
D 3 Data Link Connector 3
Power
Malfunction Indicator Lamp
Speedometer
Tachometer
Temp.
C 7(A), C 8(B) Combination Meter
SP1
S 1(A), (B), (C) Skid Control ECU with Actuator
J 2 Junction Connector
BR
SB
W–B
L–O

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)	S1 B	39 (*1)
A10	38 (*1)	I5	39 (*1)	S1 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)	T11 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)	V4 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	V11 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)	K3 B	39 (*1)	V17	39 (*1)
H7	38 (*1)	K4 A	39 (*1)	V18	39 (*1)
H10 B	43	K4 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

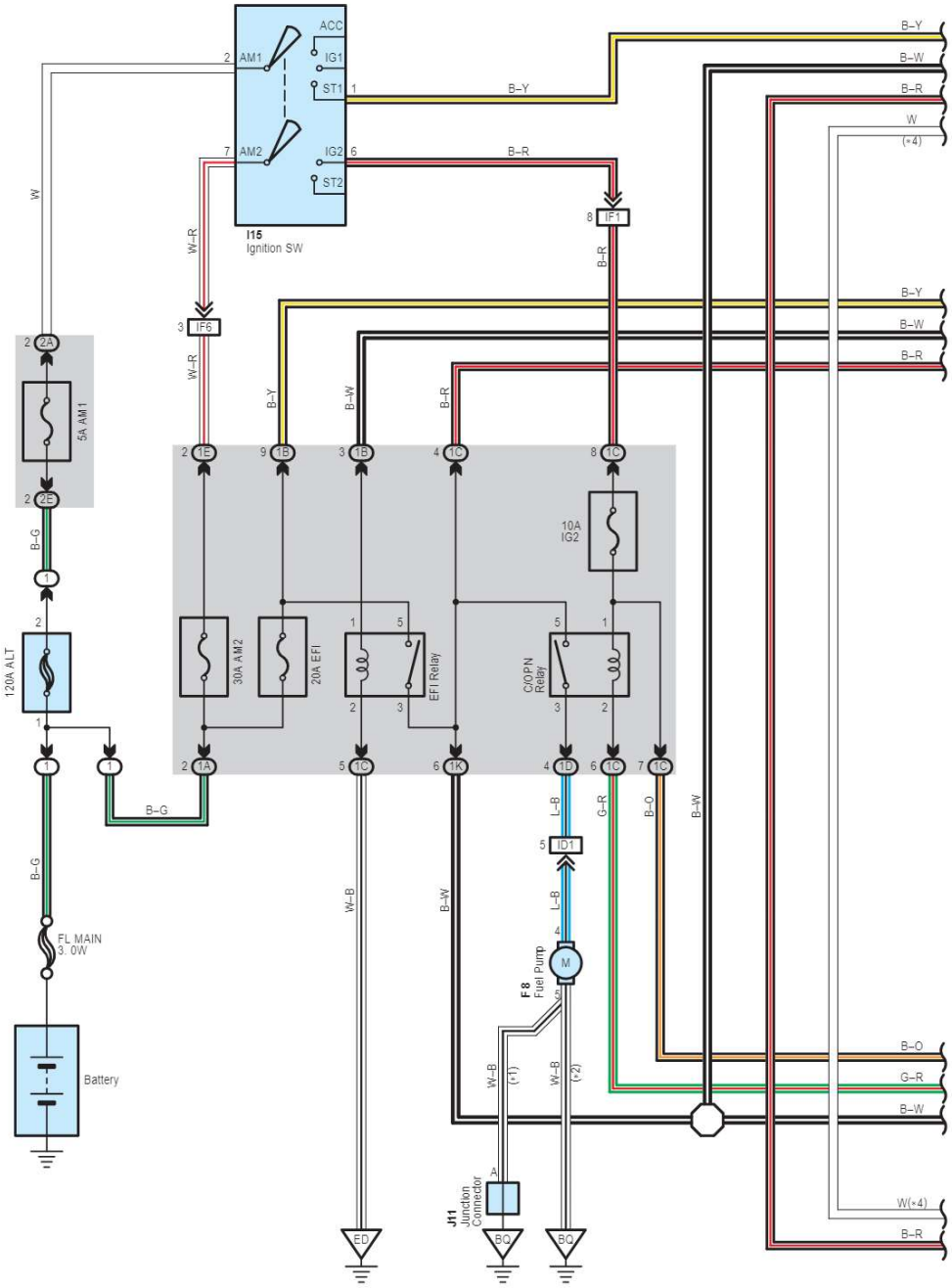
: **Connector Joining Wire Harness and Wire Harness**

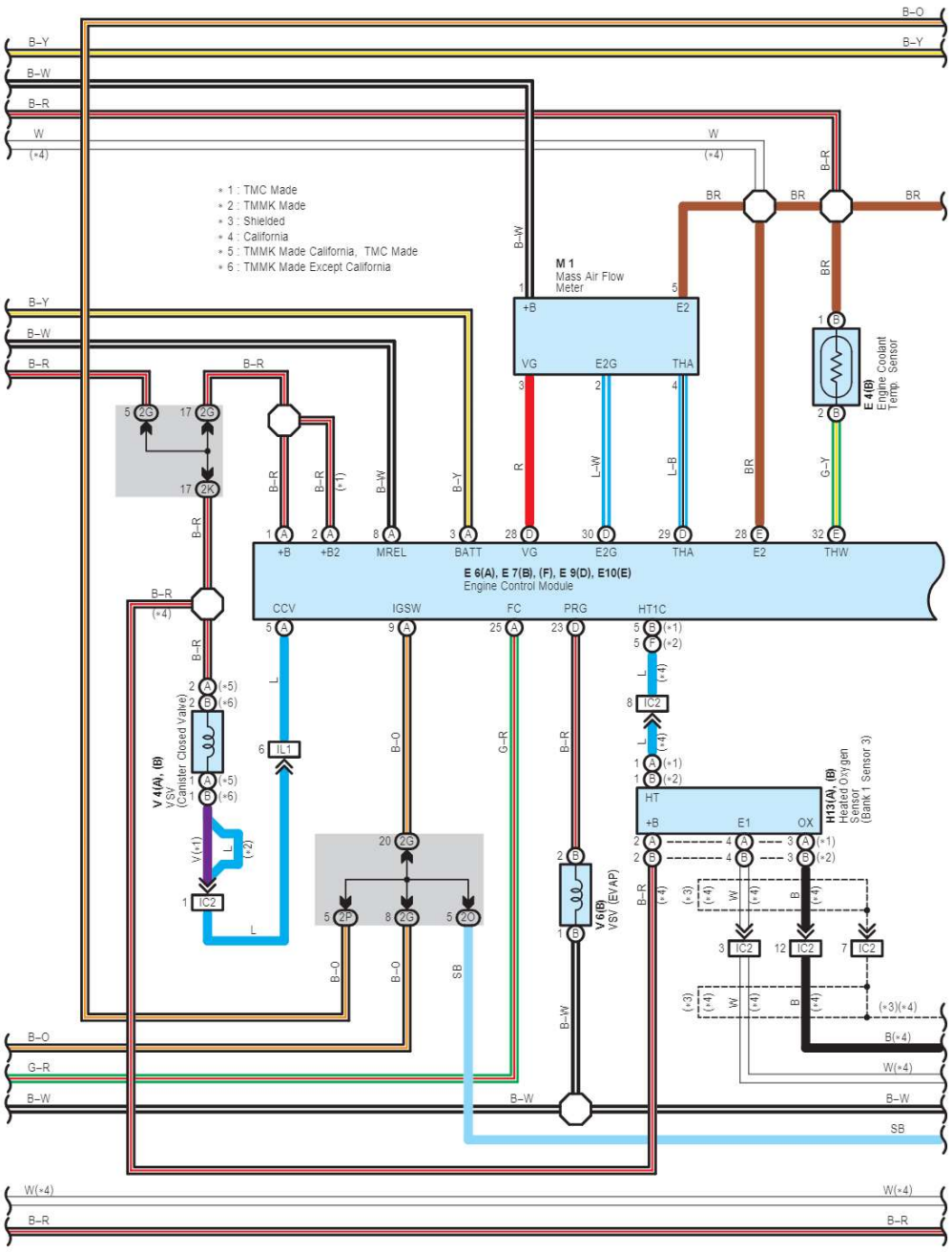
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	48 (1MZ–FE)	Engine Wire and Sensor Wire (Left Bank of Cylinder Head)
EB2	48 (3MZ–FE)	
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF1	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)

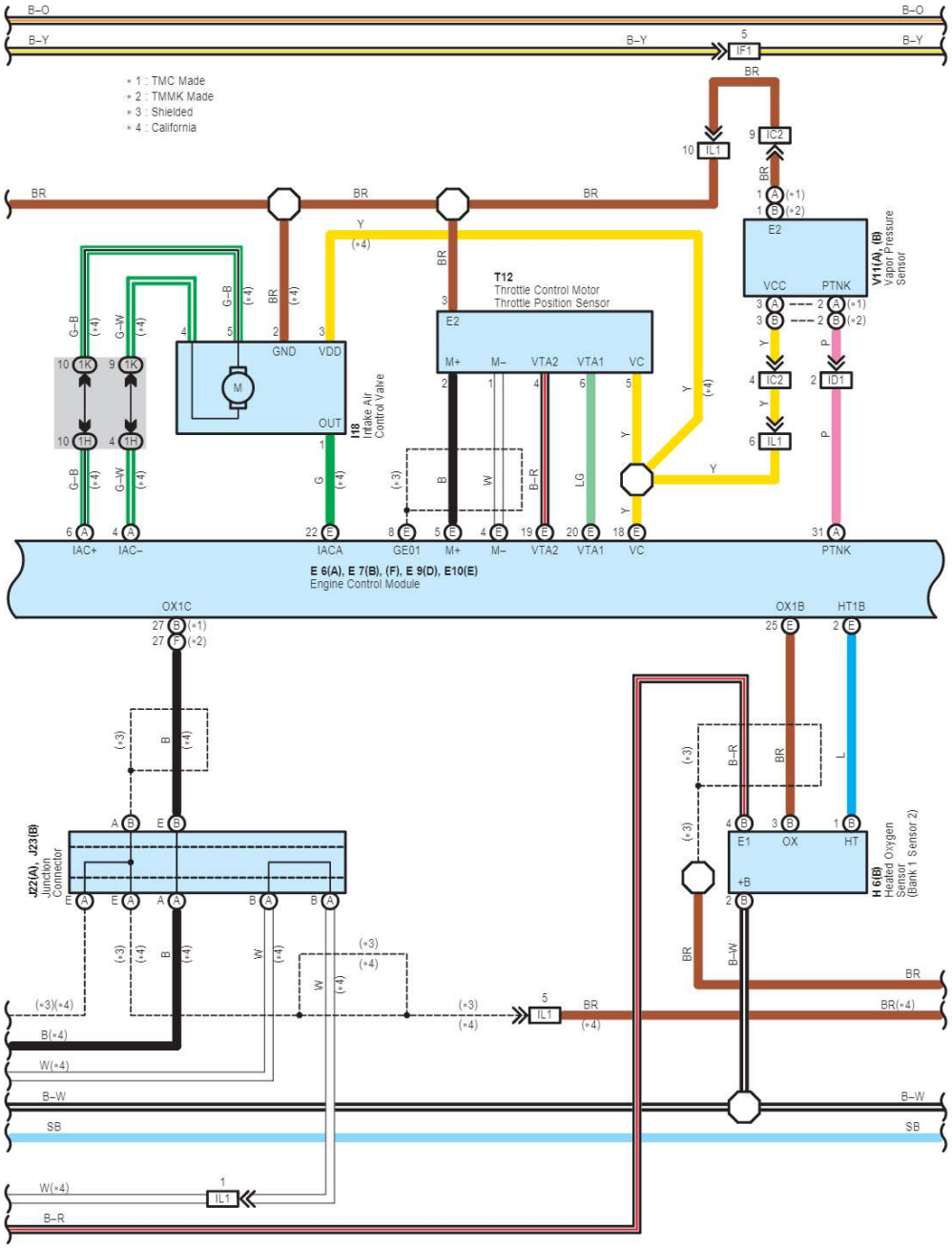
: **Ground Points**

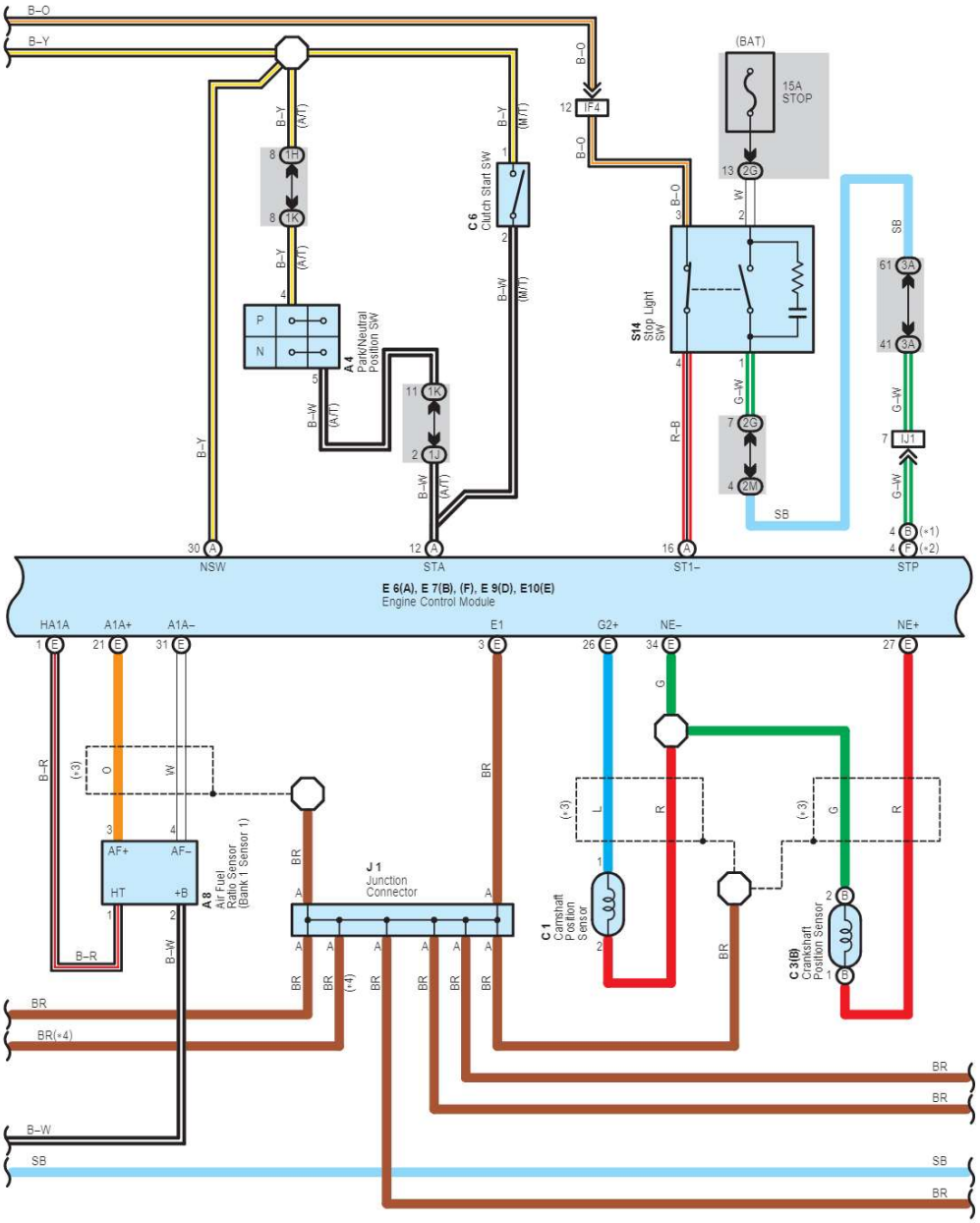
Code	See Page	Ground Points Location
EC	48 (*1)	Left Fender
ED		
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
BQ	52	Front Side of Rear Quarter Wheel House LH

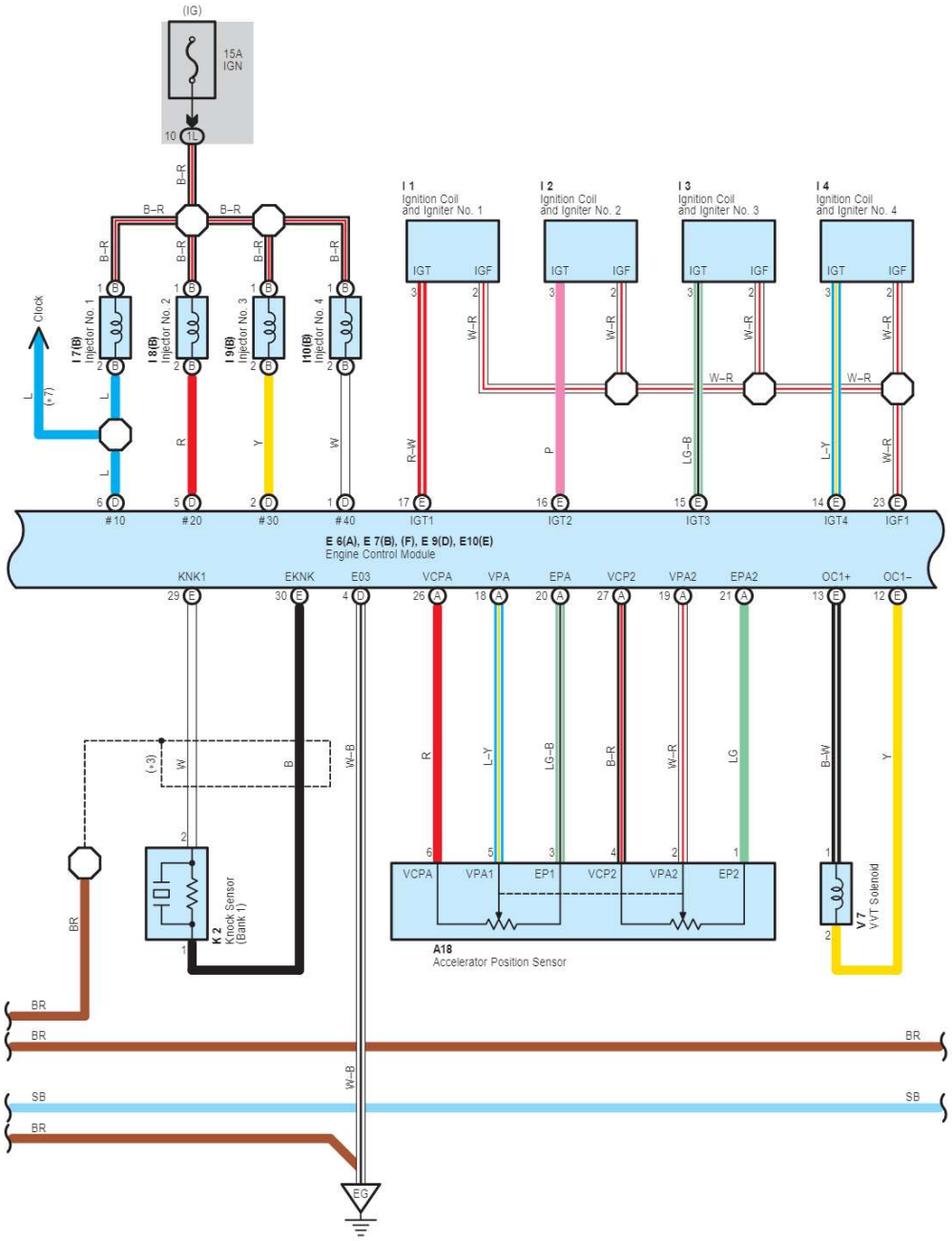
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

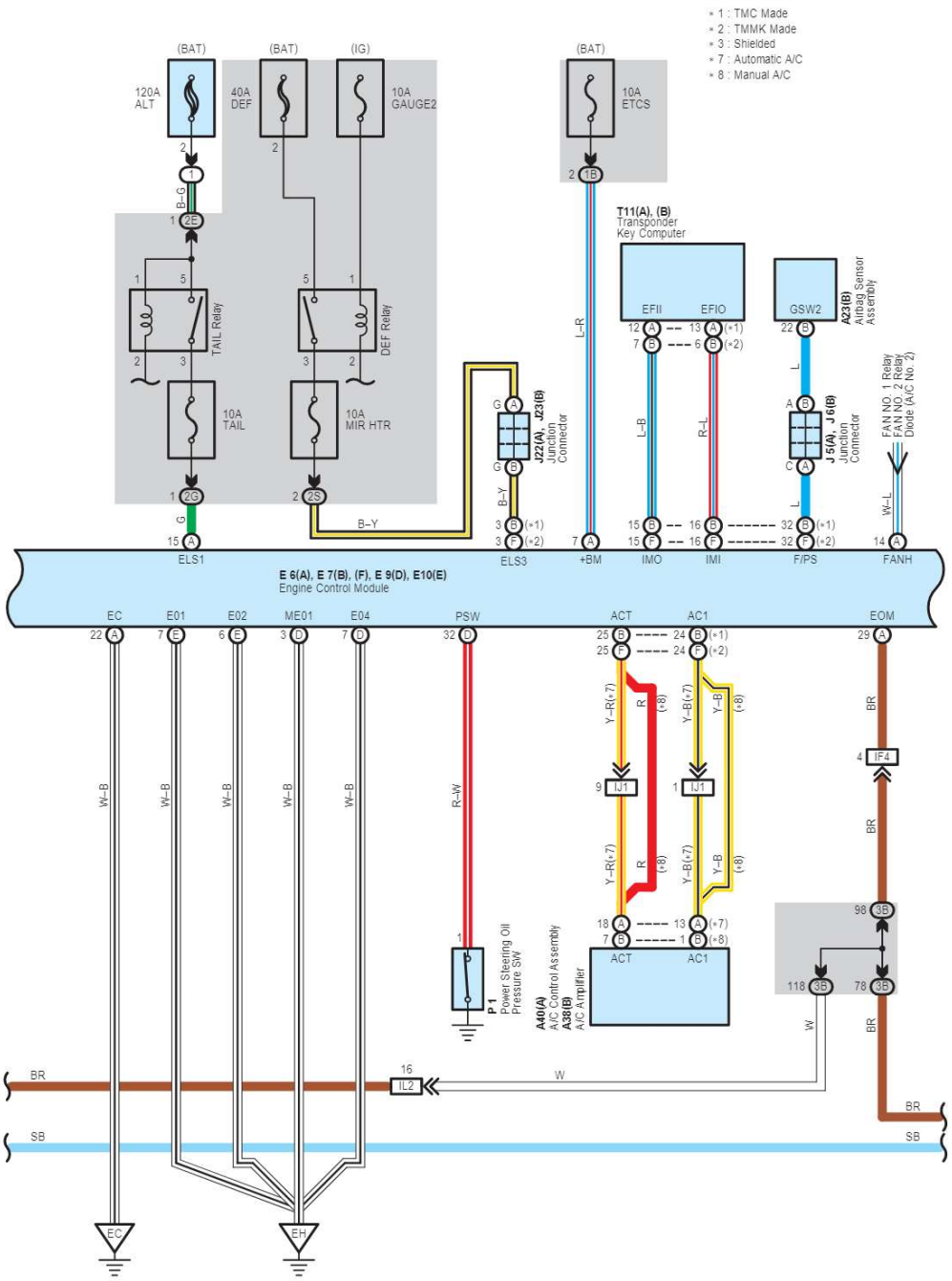

I15
Ignition SW
ACC
IG1
ST1
AM1
AM2
IG2
ST2
IF1
IF6
5A AM1
30A AM2
20A EFI
EFI Relay
10A IG2
C/OPN Relay
120A ALT
FL MAIN 3. 0W
Battery
F8
Fuel Pump
J11
Junction Connector
B–Y
B–W
B–R
W
(×4)
W–R
B–G
L–B
G–R
B–O
W–B
(*1)
(*2)
ED
BQ

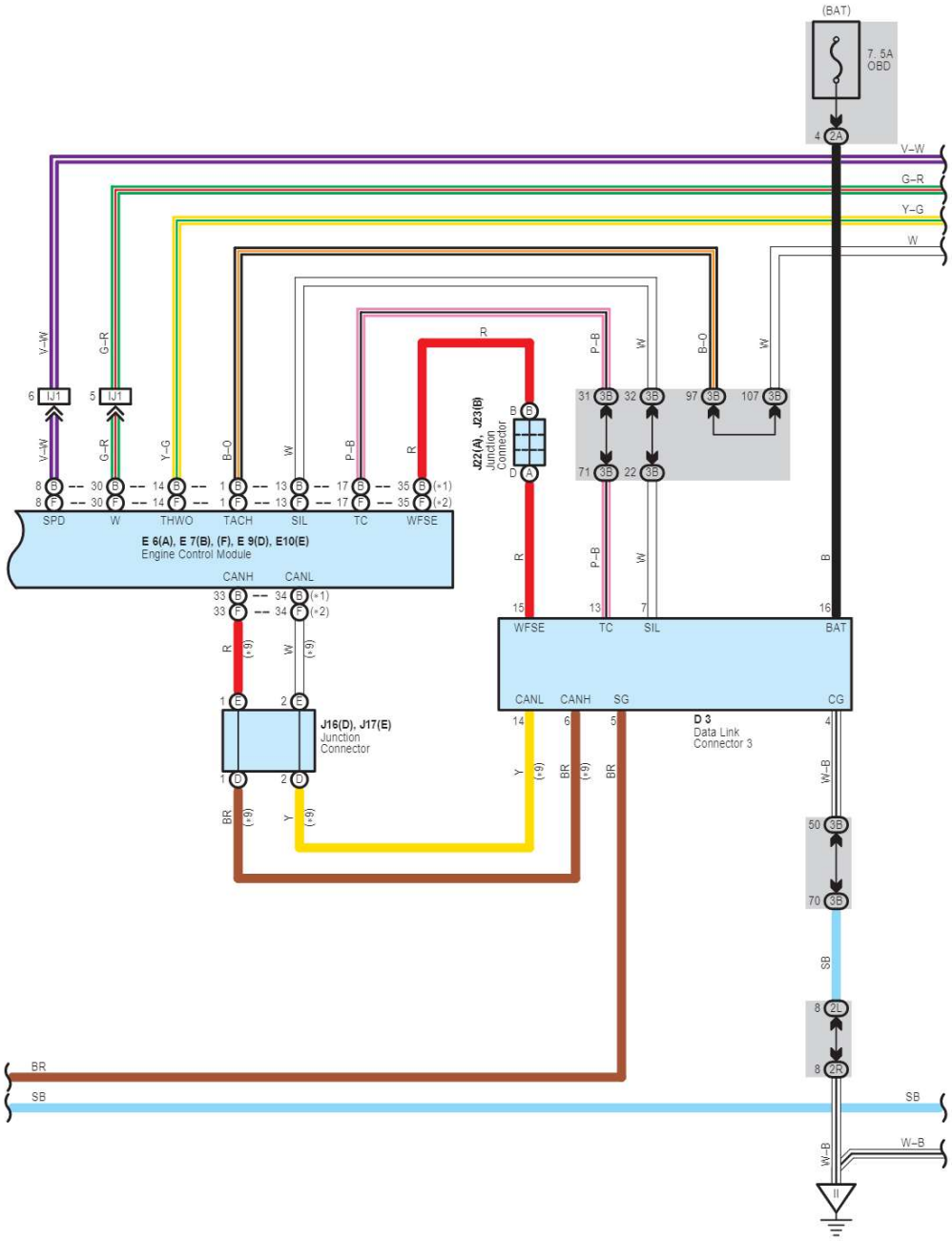

* 1 : TMC Made
* 2 : TMMK Made
* 3 : Shielded
* 4 : California
* 5 : TMMK Made California, TMC Made
* 6 : TMMK Made Except California
M 1
Mass Air Flow Meter
+B
E2
VG
E2G
THA
E 4(B)
Engine Coolant Temp Sensor
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
+B
+B2
MREL
BATT
VG
E2G
THA
E2
THW
CCV
IGSW
FC
PRG
HT1C
V 4(A), (B)
VSV
(Canister Closed Valve)
V 6(B)
VSV (EVAP)
H13(A), (B)
Heated Oxygen Sensor
(Bank 1 Sensor 3)
HT
+B
E1
OX
IC2
IL1
2G
2K
2P
2O
B–O
B–Y
B–W
B–R
W
G–R
G–Y
L
L–W
L–B
R
BR
SB

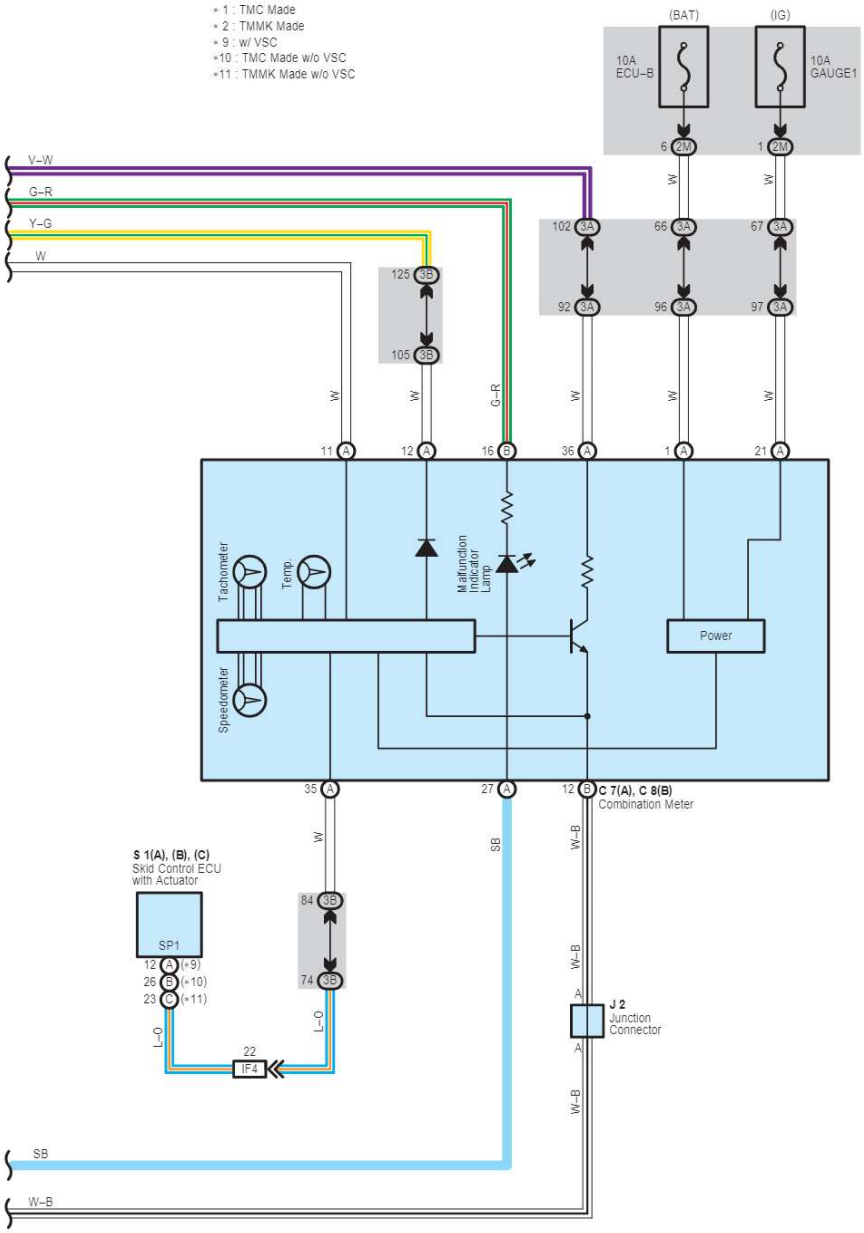

* 1 : TMC Made
* 2 : TMMK Made
* 3 : Shielded
* 4 : California
T12
Throttle Control Motor
Throttle Position Sensor
I18
Intake Air
Control Valve
V11(A), (B)
Vapor Pressure
Sensor
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
J22(A), J23(B)
Junction
Connector
H 6(B)
Heated Oxygen
Sensor
(Bank 1 Sensor 2)
IAC+
IAC–
IACA
GE01
M+
M–
VTA2
VTA1
VC
PTNK
GND
VDD
OUT
VCC
E1
OX
HT
+B


B–O
B–Y
(BAT)
15A
STOP
IF4
2G
1H
1K
C 6
Clutch Start SW
A 4
Park/Neutral
Position SW
S14
Stop Light
SW
1J
2M
IJ1
3A
NSW
STA
ST1–
STP
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
HA1A
A1A+
A1A–
E1
G2+
NE–
NE+
A 8
Air Fuel
Ratio Sensor
(Bank 1 Sensor 1)
AF+
AF–
HT
+B
J 1
Junction
Connector
C 1
Camshaft
Position
Sensor
C 3(B)
Crankshaft
Position Sensor
B–R
B–W
BR
BR(×4)
SB
G–W
R–B
G
R
L
O
W


(IG)
15A
IGN
10 1L
B–R
Clock
(+)
L
I 7(B)
Injector No. 1
I 8(B)
Injector No. 2
I 9(B)
Injector No. 3
I10(B)
Injector No. 4
R
Y
W
#10
#20
#30
#40
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
IGT
IGF
W–R
R–W
P
LG–B
L–Y
IGT1
IGT2
IGT3
IGT4
IGF1
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
KNK1
EKNK
E03
VCPA
VPA
EPA
VCP2
VPA2
EPA2
OC1+
OC1–
(+3)
W
B
W–B
K 2
Knock Sensor
(Bank 1)
BR
R
L–Y
LG–B
B–R
W–R
LG
B–W
Y
VCPA
VPA1
EP1
VCP2
VPA2
EP2
A18
Accelerator Position Sensor
V 7
VVT Solenoid
SB
EG


* 1 : TMC Made
* 2 : TMMK Made
* 3 : Shielded
* 7 : Automatic A/C
* 8 : Manual A/C
(BAT)
(BAT)
(IG)
(BAT)
120A ALT
40A DEF
10A GAUGE2
10A ETCS
TAIL Relay
DEF Relay
10A TAIL
10A MIR HTR
B–G
G
B–Y
L–R
L–B
R–L
L
W–L
T11(A), (B) Transponder Key Computer
EFII
EFIO
GSW2
A23(B) Airbag Sensor Assembly
J22(A), J23(B) Junction Connector
J5(A), J6(B) Junction Connector
FAN NO. 1 Relay
FAN NO. 2 Relay
Diode (A/C No. 2)
ELS1
ELS3
+BM
IMO
IMI
F/PS
FANH
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
EC
E01
E02
ME01
E04
PSW
ACT
AC1
EOM
W–B
R–W
Y–R
Y–B
R
BR
W
SB
IJ1
IF4
IL2
P1
Power Steering Oil Pressure SW
A40(A)
A/C Control Assembly
A38(B)
A/C Amplifier
EC
EH


(BAT)
7. 5A
OBD
4 2A
V–W
G–R
Y–G
W
V–W
G–R
6 IJ1
5 IJ1
V–W
G–R
Y–G
B–O
W
P–B
R
B–O
W
R
J22(A), J23(B)
Junction
Connector
B
D A
31 3B 32 3B 97 3B 107 3B
71 3B 22 3B
8 B 8 F — 30 B 30 F — 14 B 14 F — 1 B 1 F — 13 B 13 F — 17 B 17 F — 35 B (*1) 35 F (*2)
SPD W THWO TACH SIL TC WFSE
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
CANH CANL
33 B 33 F — 34 B (*1) 34 F (*2)
R (*9)
W (*9)
1 E 2 E
J16(D), J17(E)
Junction
Connector
1 D 2 D
BR (*9)
Y (*9)
R
P–B
W
B
15 13 7 16
WFSE TC SIL BAT
CANL CANH SG CG
14 6 5
Y (*9)
BR (*9)
BR
D 3
Data Link
Connector 3
4
W–B
50 3B
70 3B
SB
8 2L
8 2R
BR
SB
SB
W–B
W–B


*1 : TMC Made
*2 : TMMK Made
*9 : w/ VSC
*10 : TMC Made w/o VSC
*11 : TMMK Made w/o VSC
(BAT)
(IG)
10A ECU-B
10A GAUGE1
6 2M
1 2M
V-W
G-R
Y-G
W
102 3A
66 3A
67 3A
92 3A
96 3A
97 3A
125 3B
105 3B
11 A
12 A
16 B
36 A
1 A
21 A
Tachometer
Temp.
Speedometer
Malfunction Indicator Lamp
Power
35 A
27 A
12 B
C 7(A), C 8(B)
Combination Meter
S 1(A), (B), (C)
Skid Control ECU with Actuator
SP1
12 A (*9)
26 B (*10)
23 C (*11)
84 3B
74 3B
L-O
22
IF4
J 2
Junction Connector
SB
W-B

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.

O : Parts Location

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

: **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		

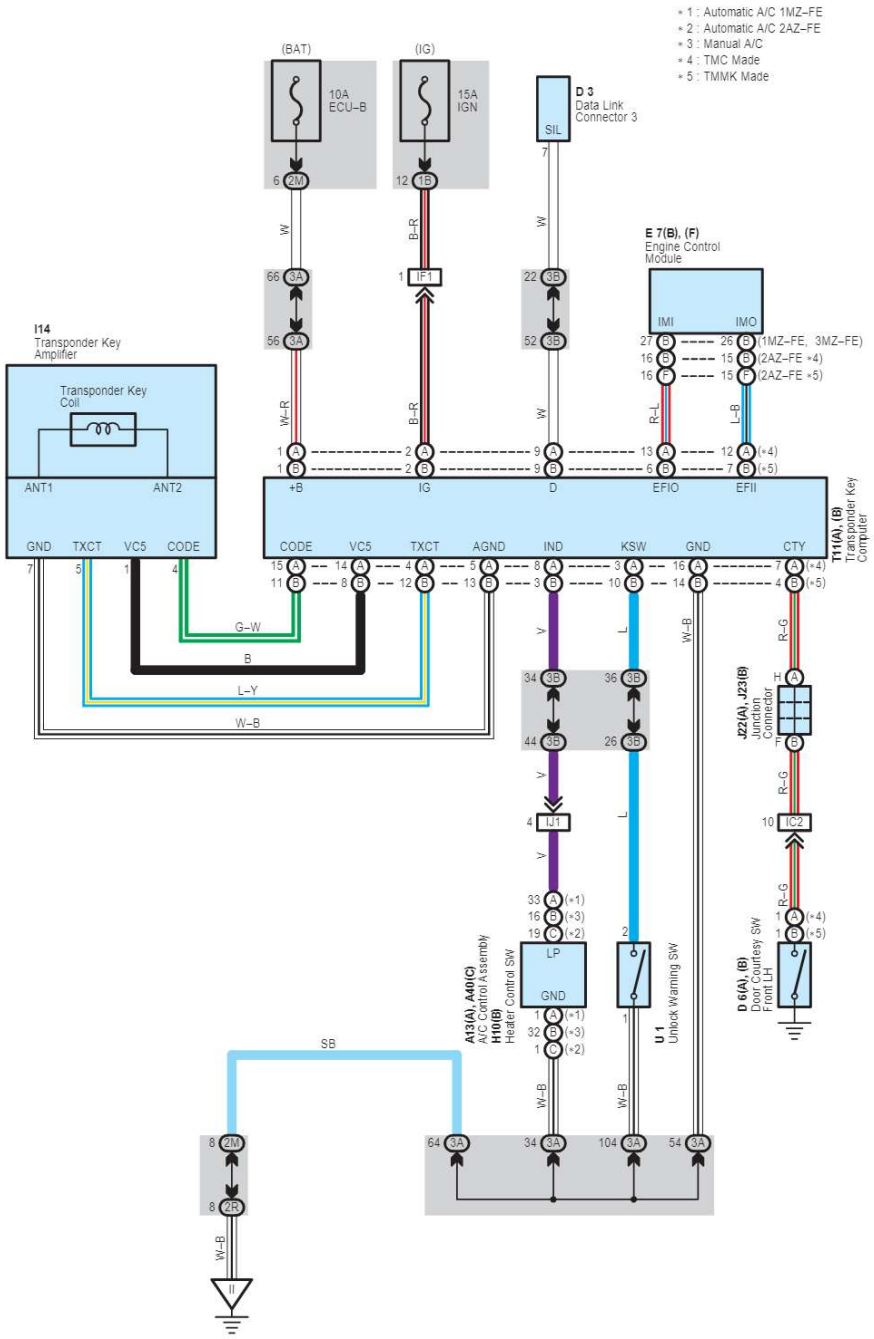
: **Connector Joining Wire Harness and Wire Harness**

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


* 1 : Automatic A/C 1MZ–FE
* 2 : Automatic A/C 2AZ–FE
* 3 : Manual A/C
* 4 : TMC Made
* 5 : TMMK Made
(BAT)
(IG)
10A ECU–B
15A IGN
D 3 Data Link Connector 3
SIL
E 7(B), (F) Engine Control Module
IMI
IMO
I14 Transponder Key Amplifier
Transponder Key Coil
ANT1
ANT2
+B
IG
D
EFIO
EFII
GND
TXCT
VC5
CODE
AGND
IND
KSW
CTY
T11(A), (B) Transponder Key Computer
IF1
IJ1
IC2
J22(A), J23(B) Junction Connector
A13(A), A40(C) A/C Control Assembly
H10(B) Heater Control SW
LP
U 1 Unlock Warning SW
D 6(A), (B) Door Courtesy SW Front LH
G–W
B
L–Y
W–B
B–R
W–R
R–L
L–B
R–G
L
V
SB

○ : **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**

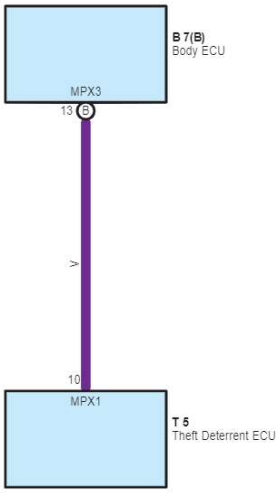
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

▭ : **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


B 7(B)
Body ECU
MPX3
13
B
>
10
MPX1
T 5
Theft Deterrent ECU

System Outline

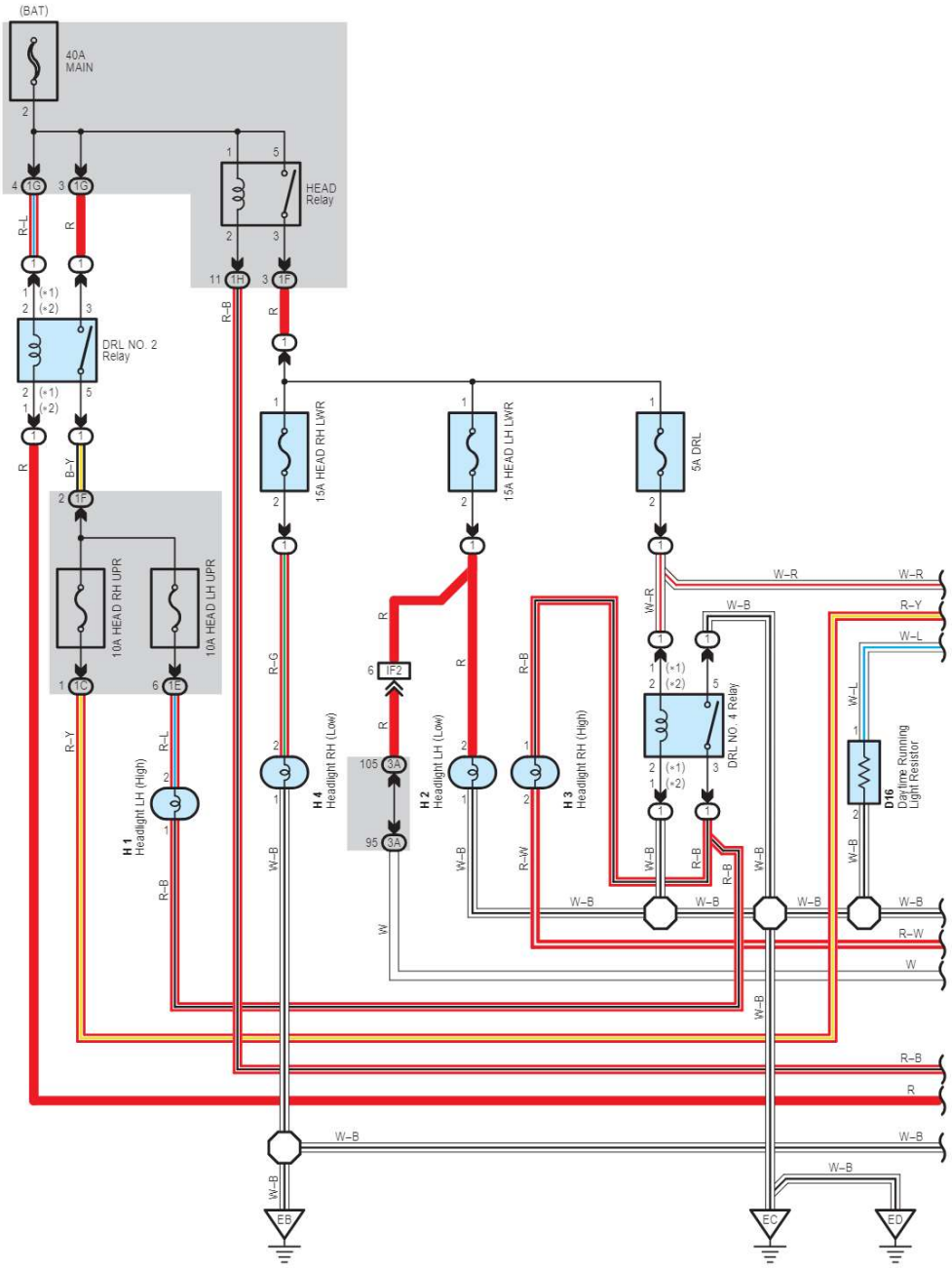
The multiplex communication system communicates among the body ECU, theft deterrent ECU and controls the following systems according to the signals from respective sensors or switches.

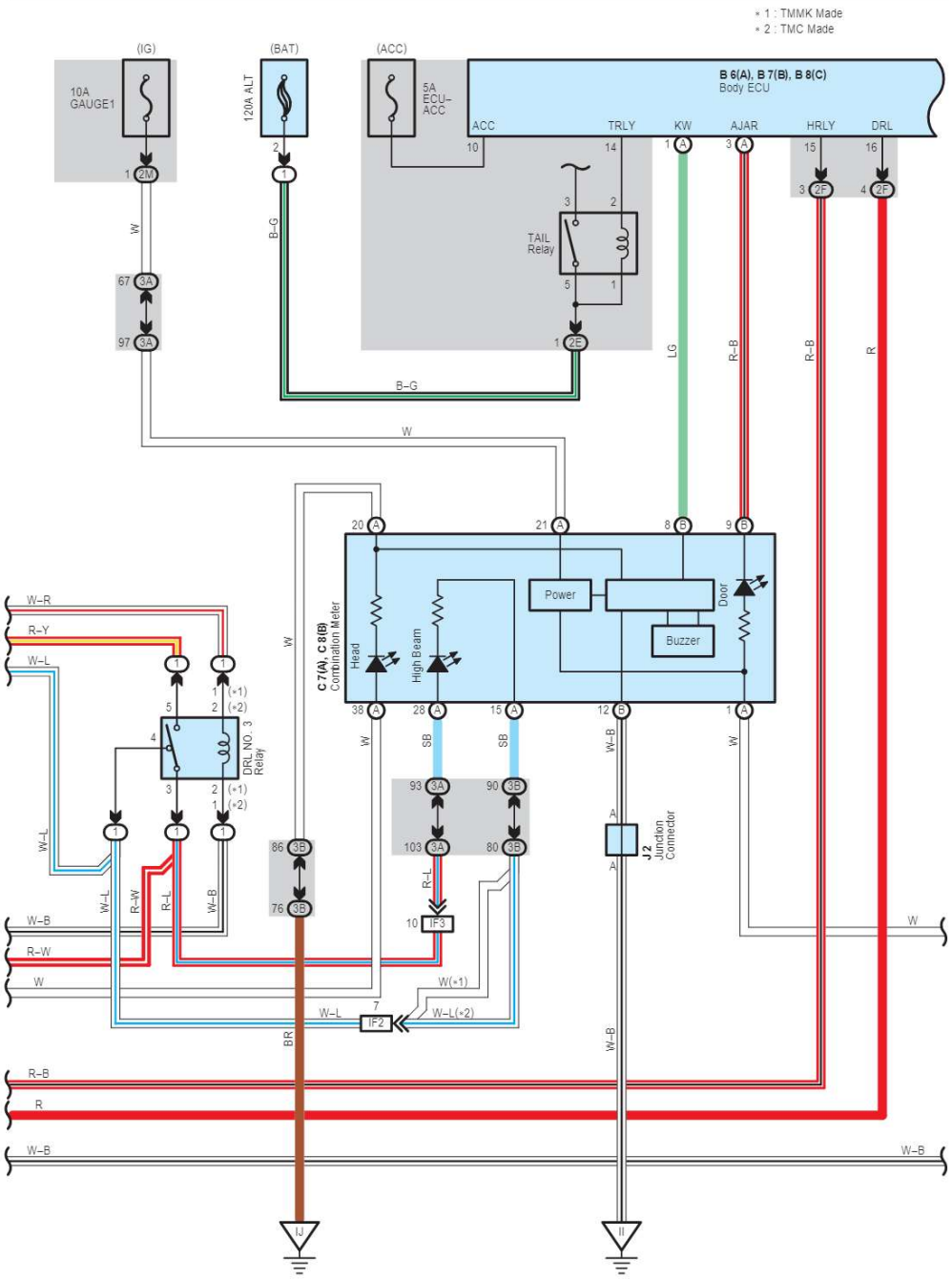
Multiplex Communication System Includes Following Systems

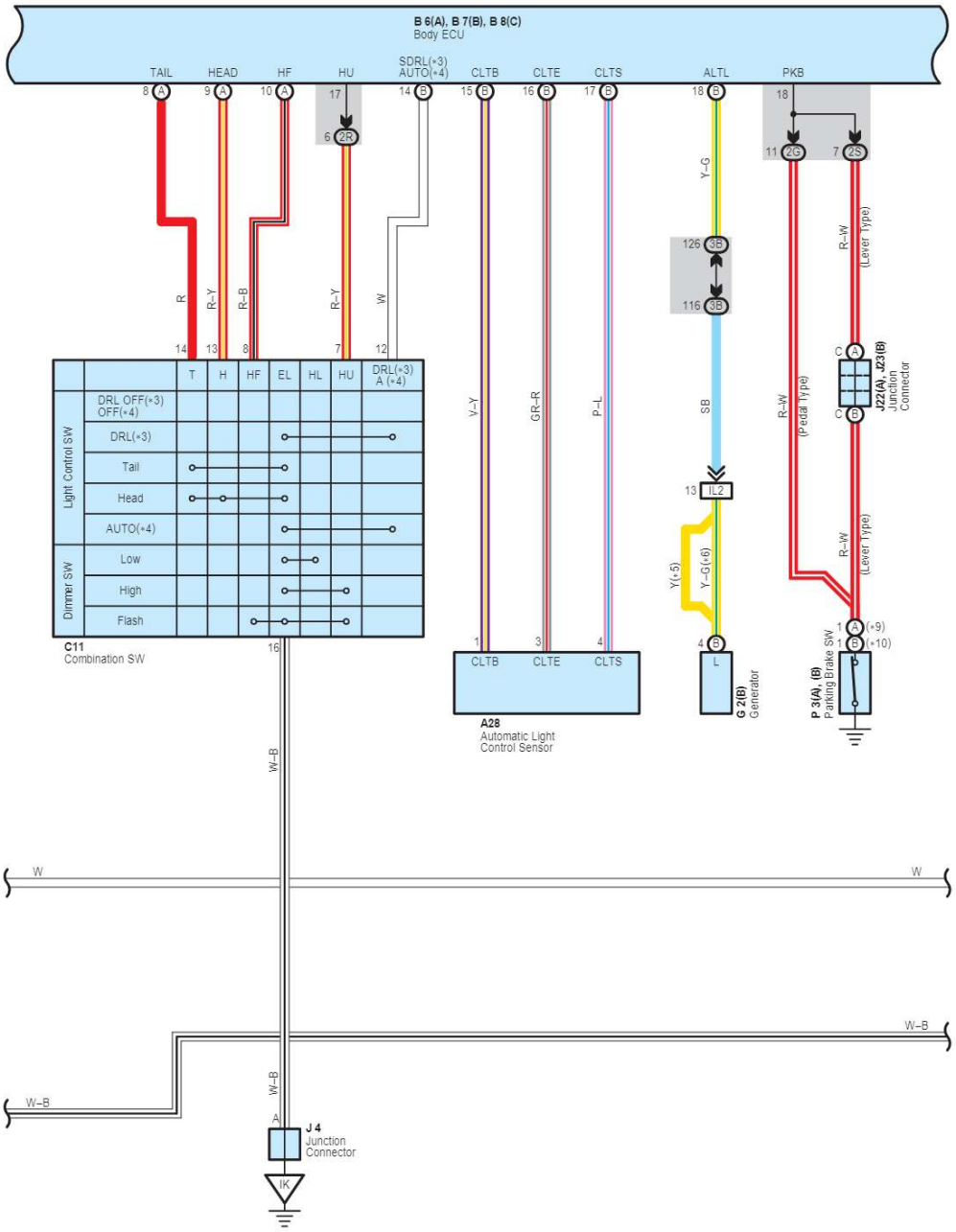
- **Automatic Light Control**
- **Door Lock Control**
- **Headlight**
- **Interior Light**
- **Key Reminder**
- **Light Auto Turn Off System**
- **Theft Deterrent**
- **Wireless Door Lock Control**

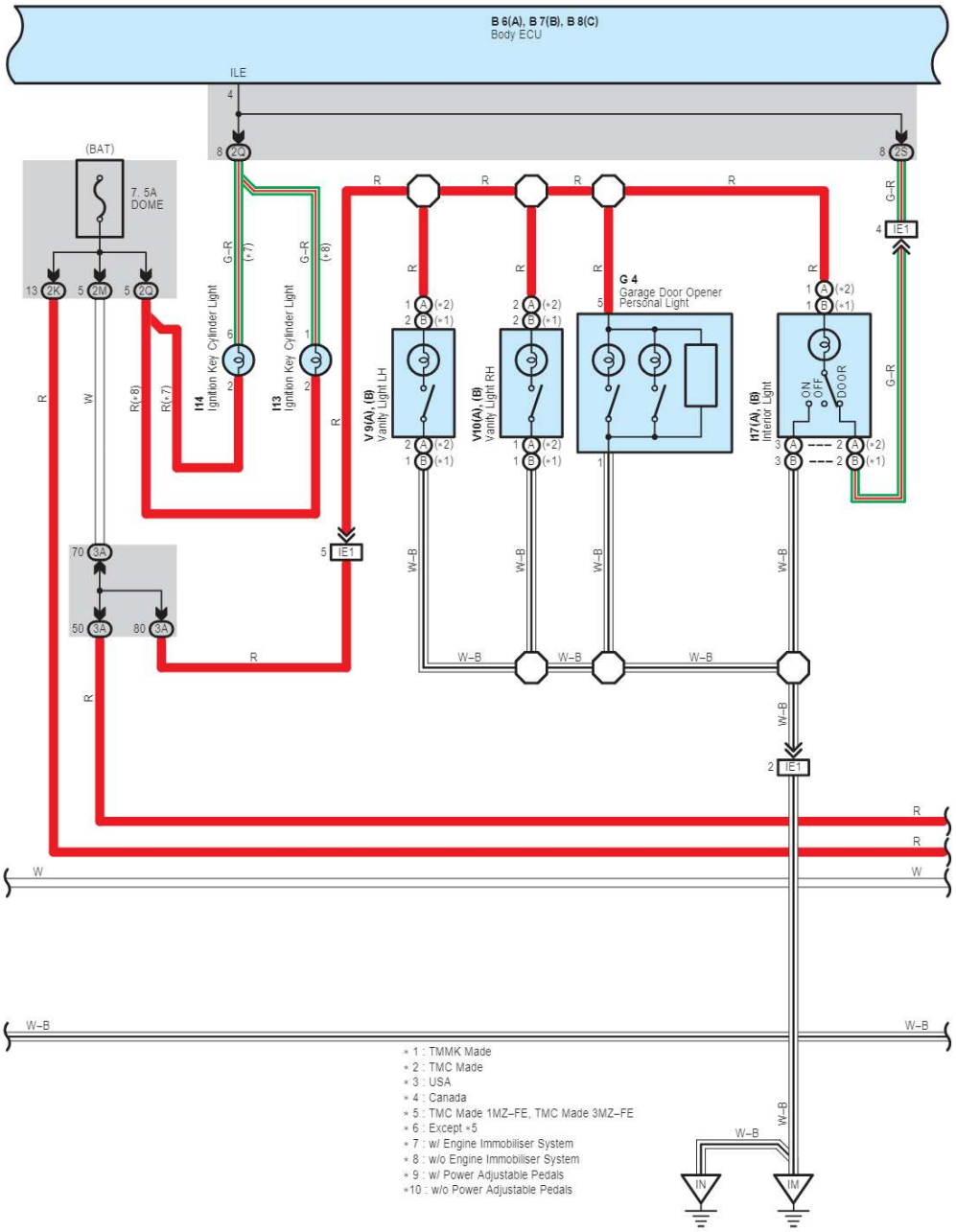
○ : **Parts Location**

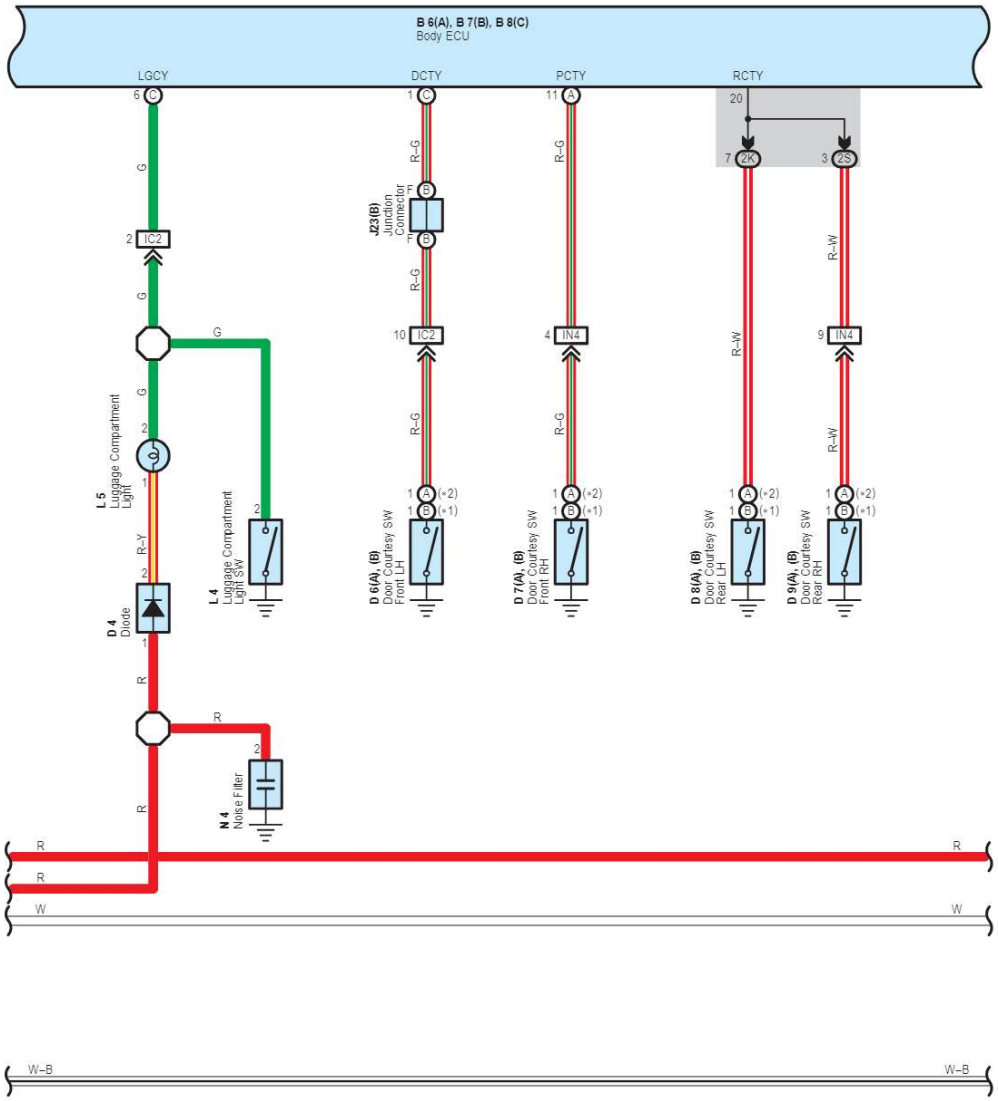
Code		See Page	Code	See Page	Code	See Page
B7	B	42	T5	43		


(BAT)
40A MAIN
HEAD Relay
DRL NO. 2 Relay
15A HEAD RH LWR
15A HEAD LH LWR
5A DRL
10A HEAD RH UPR
10A HEAD LH UPR
DRL NO. 4 Relay
H1 Headlight LH (High)
H4 Headlight RH (Low)
H2 Headlight LH (Low)
H3 Headlight RH (High)
D16 Daytime Running Light Resistor
EB
EC
ED

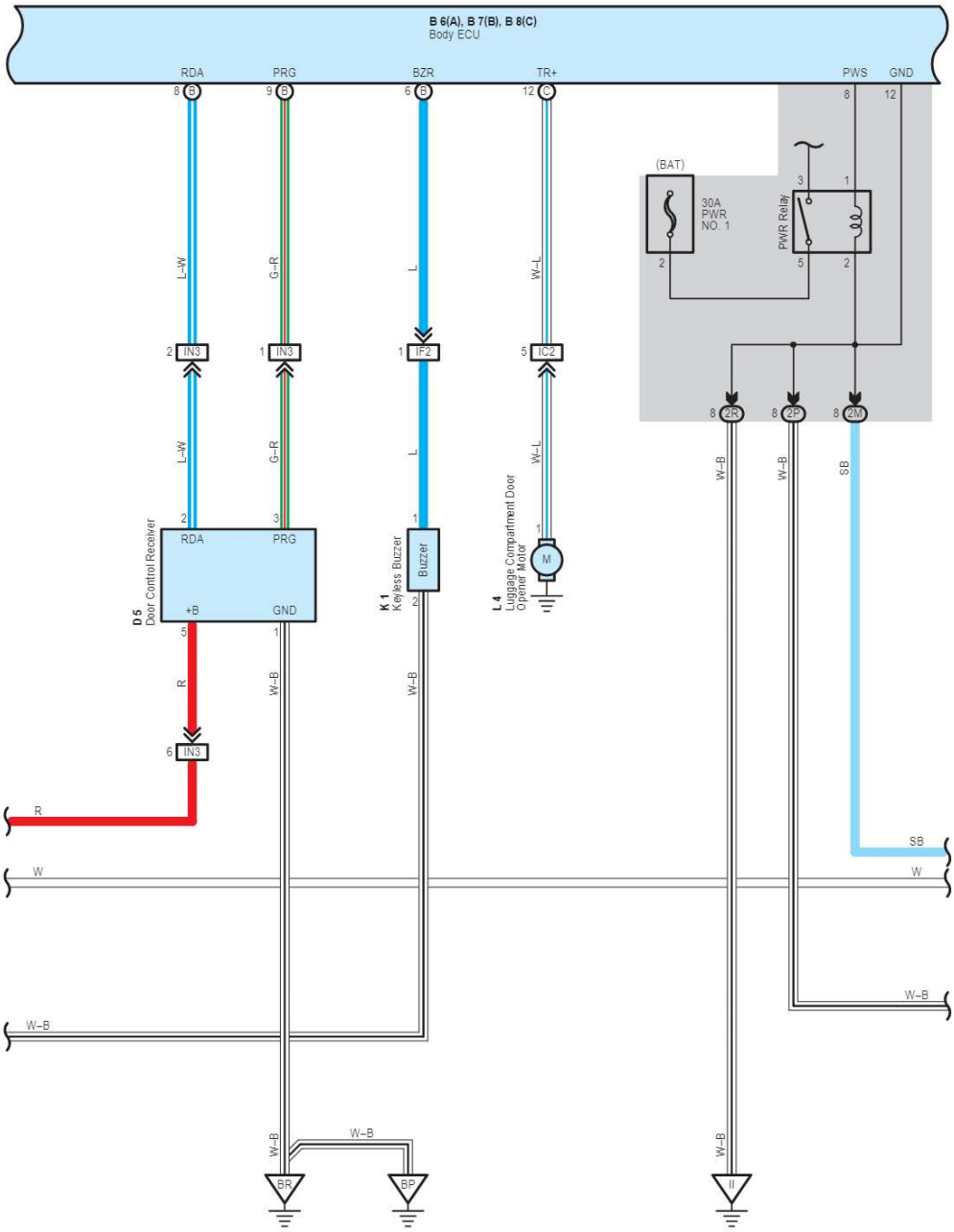

* 1 : TMMK Made
* 2 : TMC Made
(IG)
(BAT)
(ACC)
10A GAUGE1
120A ALT
5A ECU-ACC
B 6(A), B 7(B), B 8(C)
Body ECU
ACC
TRLY
KW
AJAR
HRLY
DRL
TAIL Relay
B-G
W
LG
R-B
R
C 7(A), C 8(B)
Combination Meter
Head
High Beam
Power
Door
Buzzer
DRL NO. 3 Relay
J 2
Junction Connector
W-R
R-Y
W-L
W-B
R-W
R-L
SB
BR
IF2
IF3
W(*1)
W-L(*2)

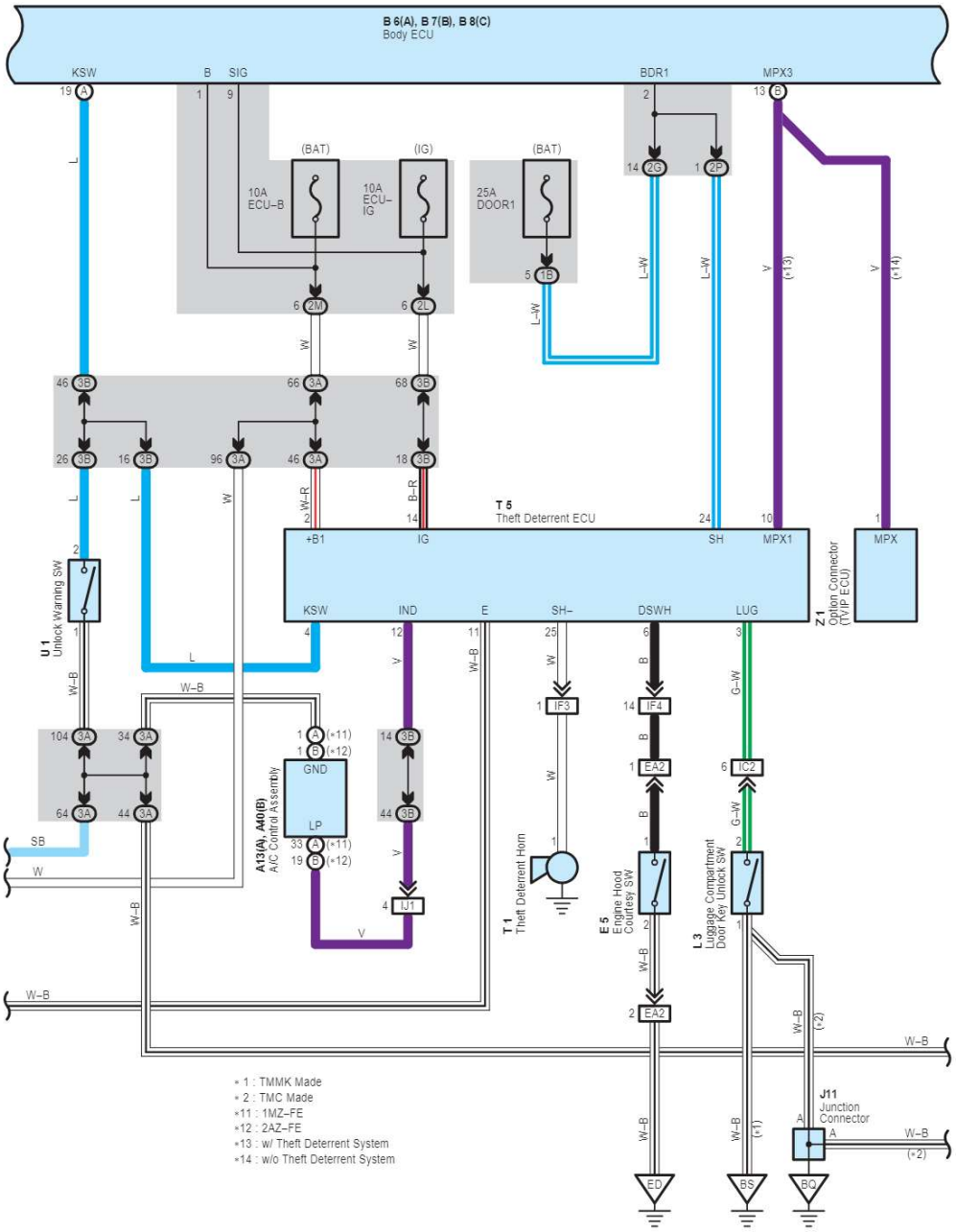

B 6(A), B 7(B), B 8(C)
Body ECU
TAIL
HEAD
HF
HU
SDRL(*3)
AUTO(*4)
CLTB
CLTE
CLTS
ALTL
PKB
R
R–Y
R–B
R–Y
W
V–Y
GR–R
P–L
Y–G
SB
Y(*5)
Y–G(*6)
R–W
(Pedal Type)
R–W
(Lever Type)
R–W
(Lever Type)
T
H
HF
EL
HL
HU
DRL(*3)
A (*4)
DRL OFF(*3)
OFF(*4)
DRL(*3)
Tail
Head
AUTO(*4)
Low
High
Flash
Light Control SW
Dimmer SW
C11
Combination SW
A28
Automatic Light
Control Sensor
CLTB
CLTE
CLTS
IL2
L
G 2(B)
Generator
J22(A), J23(B)
Junction
Connector
P 3(A), (B)
Parking Brake SW
(*9)
(*10)
W
W
W–B
W–B
W–B
J 4
Junction
Connector

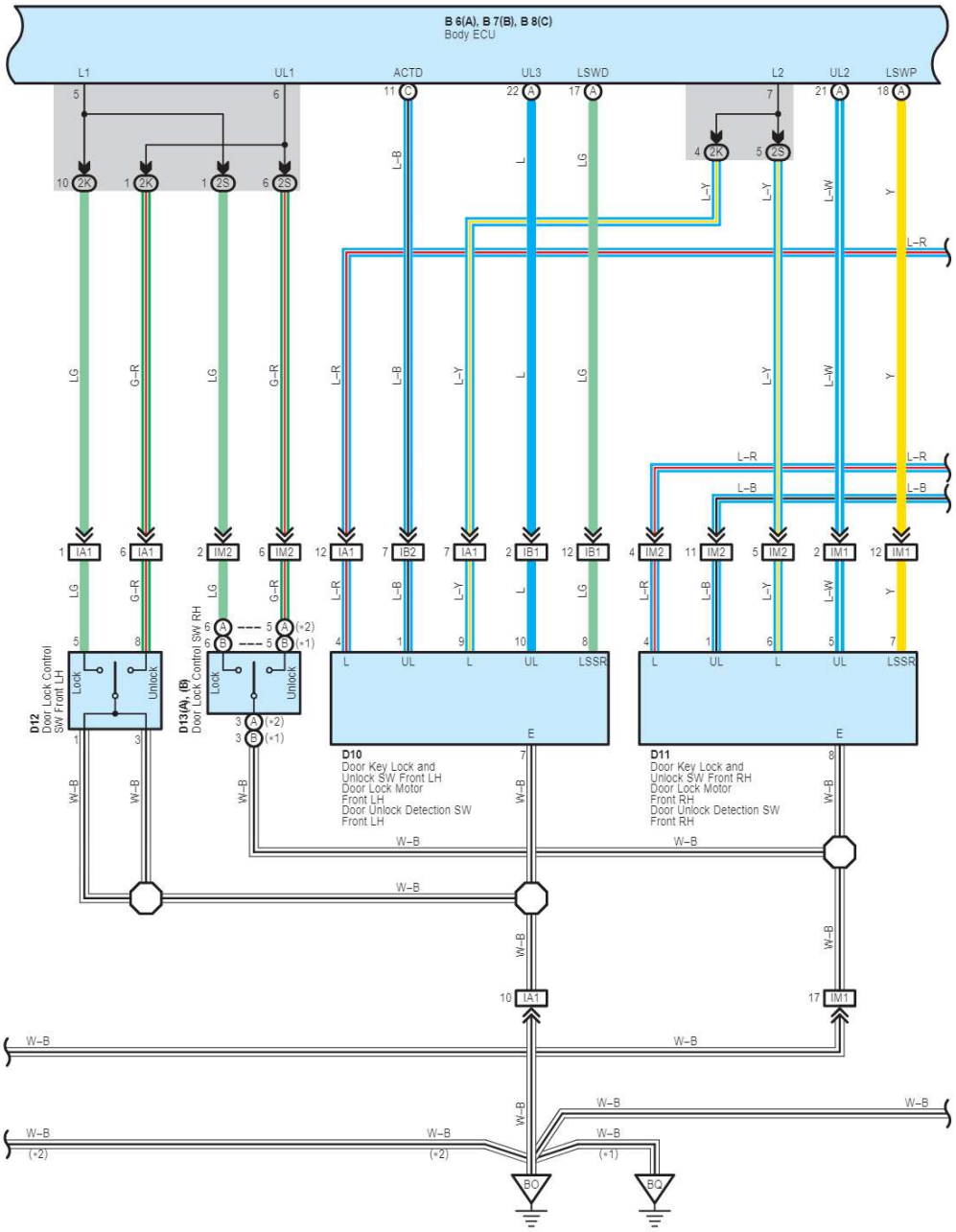

B 6(A), B 7(B), B 8(C)
Body ECU
ILE
(BAT)
7.5A
DOME
I14
Ignition Key Cylinder Light
I13
Ignition Key Cylinder Light
V9(A), (B)
Vanity Light LH
V10(A), (B)
Vanity Light RH
G 4
Garage Door Opener
Personal Light
I17(A), (B)
Interior Light
ON
OFF
DOOR
IE1
3A
2K
2M
2Q
2S
R
W
W–B
G–R
R(*8)
R(*7)
G–R(*7)
G–R(*8)
* 1 : TMMK Made
* 2 : TMC Made
* 3 : USA
* 4 : Canada
* 5 : TMC Made 1MZ–FE, TMC Made 3MZ–FE
* 6 : Except *5
* 7 : w/ Engine Immobiliser System
* 8 : w/o Engine Immobiliser System
* 9 : w/ Power Adjustable Pedals
*10 : w/o Power Adjustable Pedals

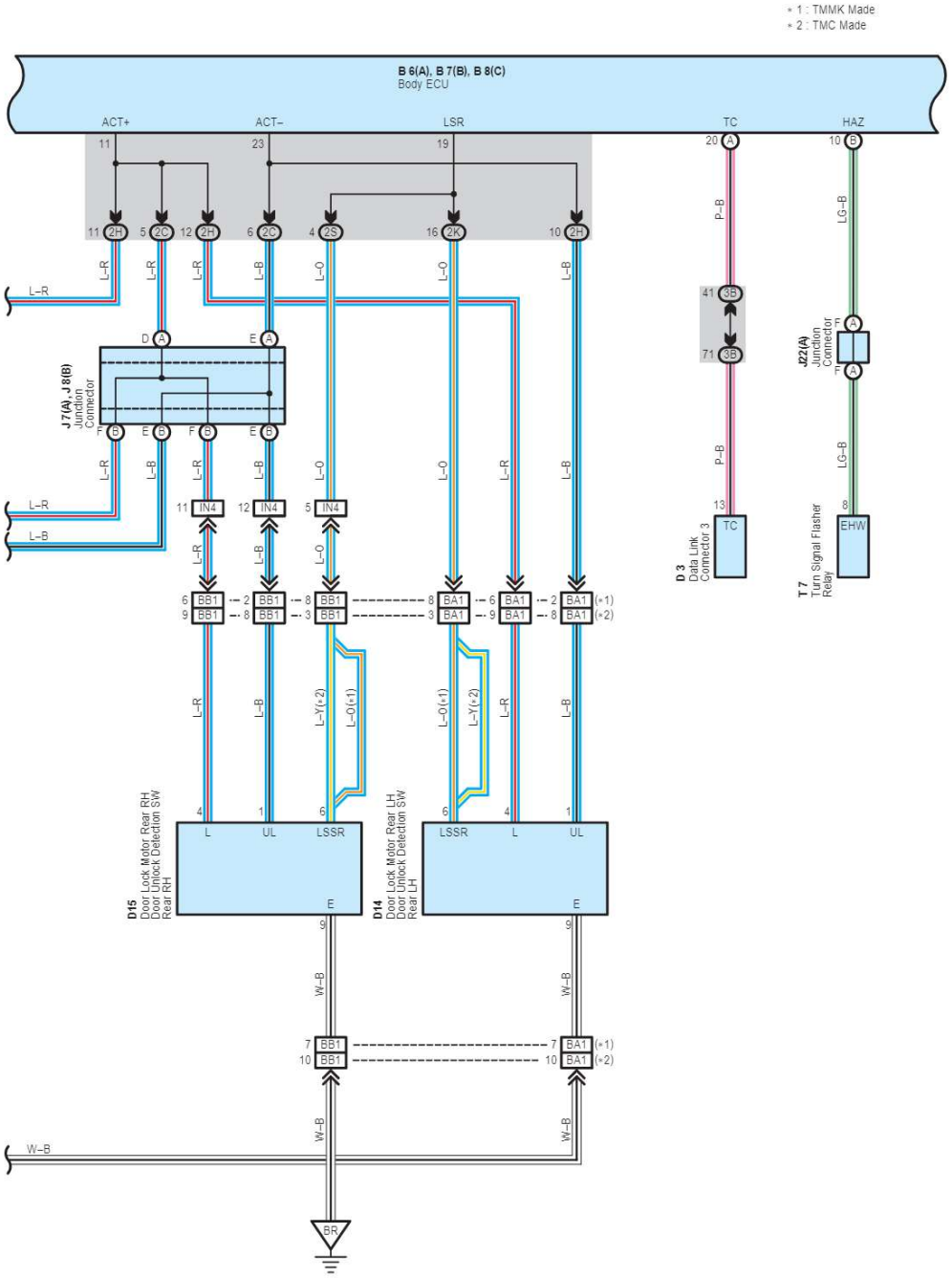


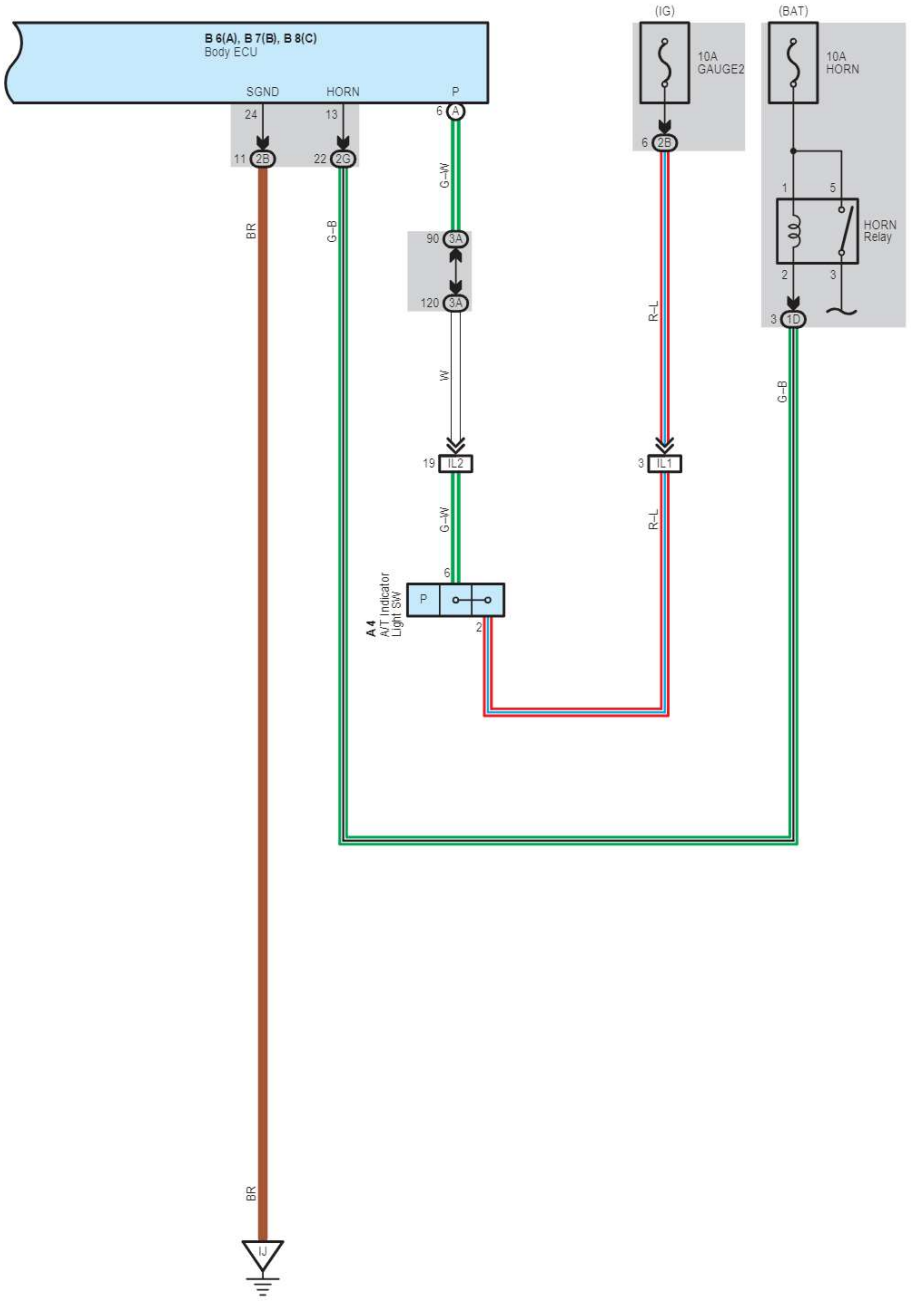
* 1 : TMMK Made
* 2 : TMC Made


B 6(A), B 7(B), B 8(C)
Body ECU
RDA
PRG
BZR
TR+
PWS
GND
(BAT)
30A
PWR
NO. 1
PWR Relay
D 5
Door Control Receiver
K 1
Keyless Buzzer
Buzzer
L 4
Luggage Compartment Door
Opener Motor
+B
GND
IN3
IF2
IC2
2R
2P
2M
L–W
G–R
L
W–L
W–B
R
SB
W
BR
BP
M


B 6(A), B 7(B), B 8(C)
Body ECU
KSW
B
SIG
BDR1
MPX3
(BAT)
(IG)
(BAT)
10A ECU–B
10A ECU–IG
25A DOOR1
T 5
Theft Deterrent ECU
+B1
IG
SH
MPX1
MPX
KSW
IND
E
SH–
DSWH
LUG
U 1
Unlock Warning SW
A13(A), A40(B)
A/C Control Assembly
GND
LP
T 1
Theft Deterrent Horn
E 5
Engine Hood Courtesy SW
L 3
Luggage Compartment Door Key Unlock SW
Z 1
Option Connector (TV/IP ECU)
J11
Junction Connector
ED
BS
BQ
*1 : TMMK Made
*2 : TMC Made
*11 : 1MZ–FE
*12 : 2AZ–FE
*13 : w/ Theft Deterrent System
*14 : w/o Theft Deterrent System


B 6(A), B 7(B), B 8(C)
Body ECU
L1
UL1
ACTD
UL3
LSWD
L2
UL2
LSWP
D12
Door Lock Control SW Front LH
D13(A), (B)
Door Lock Control SW 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
Lock
Unlock
W–B
L–R
L–B
L–Y
L–W
LG
G–R
L
Y


* 1 : TMMK Made
* 2 : TMC Made
B 6(A), B 7(B), B 8(C)
Body ECU
ACT+
ACT–
LSR
TC
HAZ
J7(A), J8(B)
Junction Connector
J22(A)
Junction Connector
D 3
Data Link Connector 3
T 7
Turn Signal Flasher Relay
D15
Door Lock Motor Rear RH
Door Unlock Detection SW Rear RH
D14
Door Lock Motor Rear LH
Door Unlock Detection SW Rear LH
L–R
L–B
L–O
L–Y(*2)
L–O(*1)
P–B
LG–B
W–B
BR


B 6(A), B 7(B), B 8(C)
Body ECU
SGND
HORN
P
24
13
6
A
11
2B
22
2G
G–W
BR
G–B
90
3A
120
3A
W
19
IL2
G–W
6
P
2
A4
A/T Indicator
Light SW
(IG)
10A
GAUGE2
6
2B
R–L
3
IL1
R–L
(BAT)
10A
HORN
1
5
HORN
Relay
2
3
3
1D
G–B
BR
IJ

○ : **Parts Location**

Code		See Page
A4		38 (*1)
		40 (*2)
A13	A	42
A28		42
A40	B	42
B6	A	42
B7	B	42
B8	C	42
C7	A	42
C8	B	42
C11		42
D3		42
D4		44
D5		44
D6	A	44
	B	44
D7	A	44
	B	44
D8	A	44
	B	44
D9	A	44
	B	44
D10		44
D11		44
D12		44

Code		See Page
D13	A	44
	B	44
D14		44
D15		44
D16		38 (*1)
		40 (*2)
E5		38 (*1)
		40 (*2)
G2	B	38 (*1)
		40 (*2)
G4		44
H1		38 (*1)
		40 (*2)
H2		38 (*1)
		40 (*2)
H3		38 (*1)
		40 (*2)
H4		38 (*1)
		40 (*2)
I13		43
I14		43
I17	A	44
	B	44
J2		43
J4		43

Code		See Page
J7	A	43
J8	B	43
J11		44
J22	A	43
J23	B	43
K1		39 (*1)
		41 (*2)
L3		45
L4		45
L5		45
N4		45
P3	A	43
	B	43
T1		39 (*1)
		41 (*2)
T5		43
T7		43
U1		43
V9	A	45
	B	45
V10	A	45
	B	45
Z1		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**

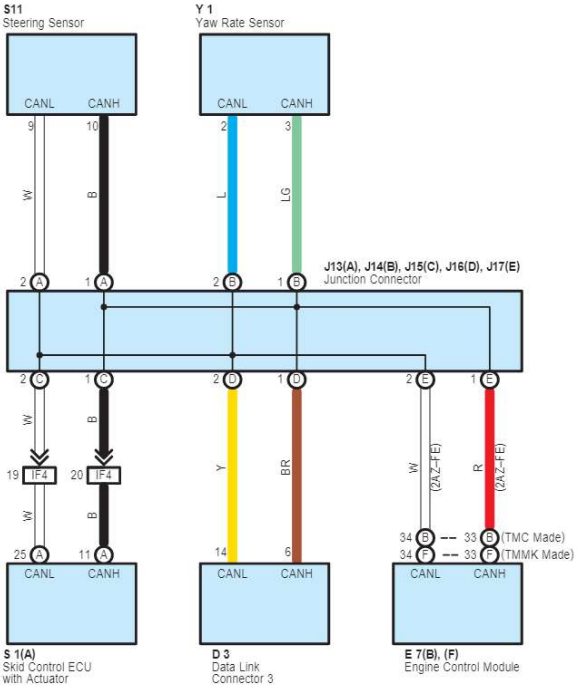
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
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

▽ : **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


S11
Steering Sensor
CANL
CANH
9
10
W
B
Y 1
Yaw Rate Sensor
CANL
CANH
2
3
L
LG
J13(A), J14(B), J15(C), J16(D), J17(E)
Junction Connector
2 A
1 A
2 B
1 B
2 C
1 C
2 D
1 D
2 E
1 E
W
B
Y
BR
W
(2AZ-FE)
R
(2AZ-FE)
19 IF4
20 IF4
W
B
25 A
11 A
14
6
34 B -- 33 B (TMC Made)
34 F -- 33 F (TMMK Made)
CANL
CANH
CANL
CANH
CANL
CANH
S 1(A)
Skid Control ECU
with Actuator
D 3
Data Link
Connector 3
E 7(B), (F)
Engine Control Module

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

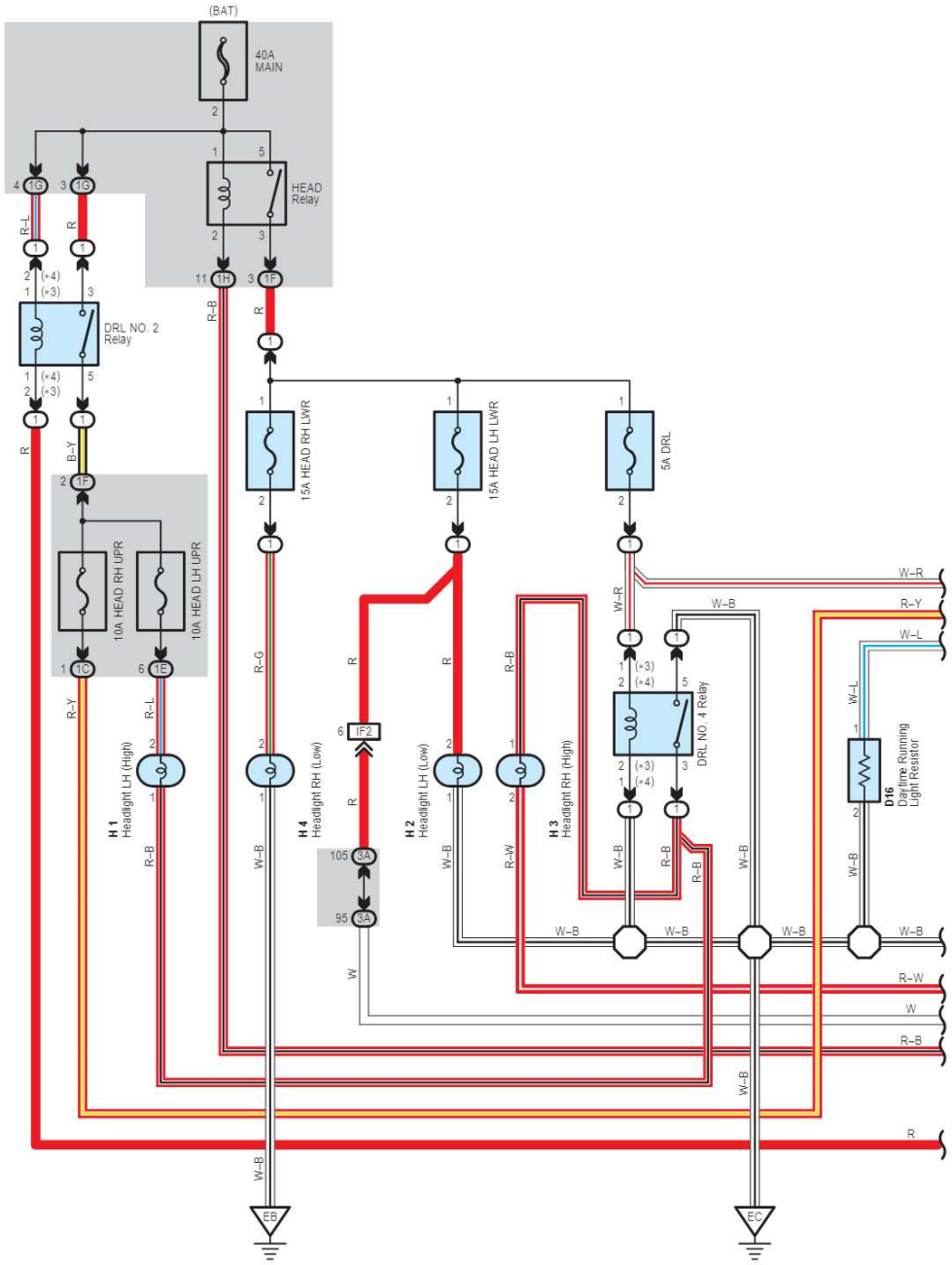
○ : Parts Location

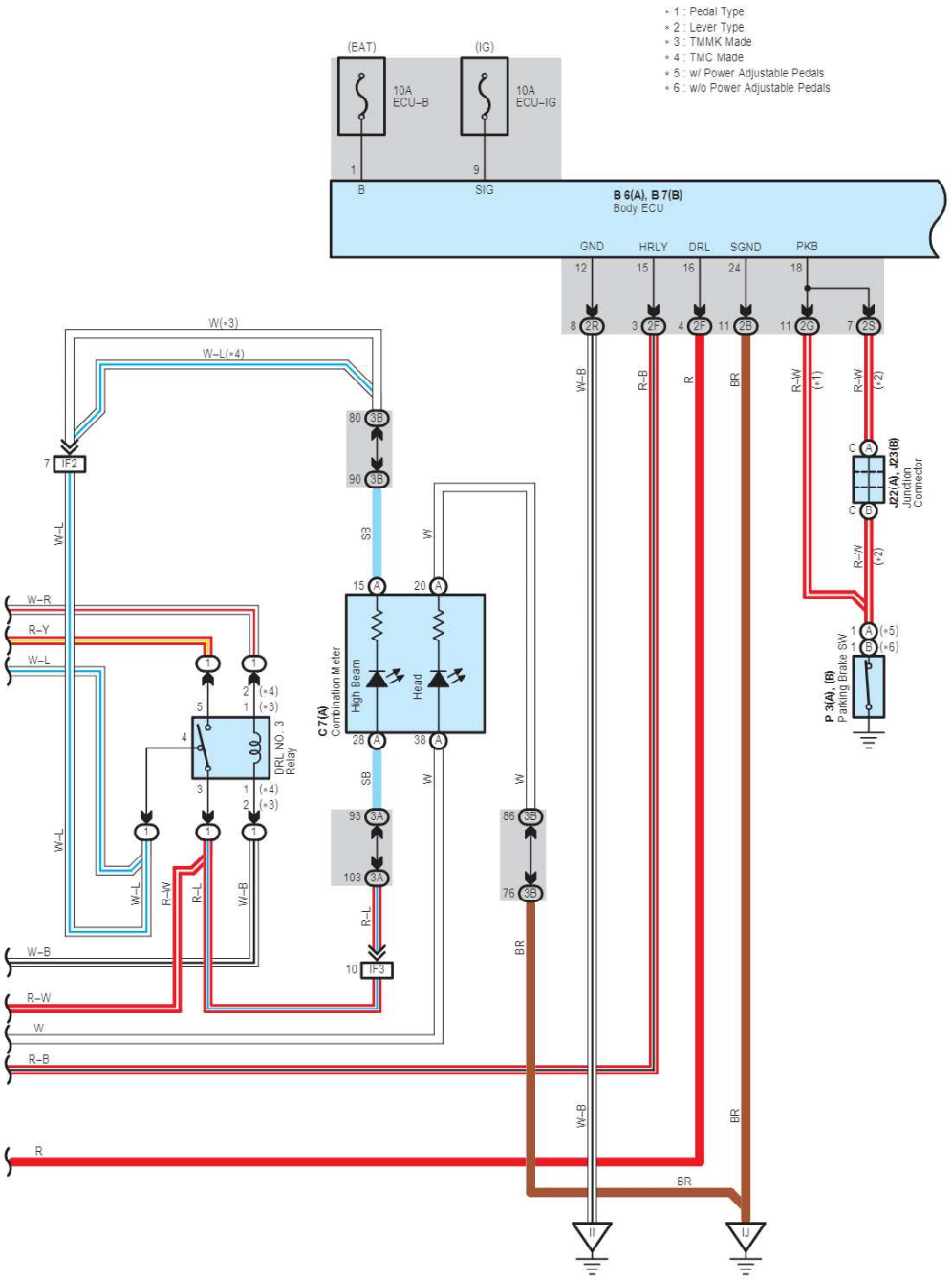
Code		See Page	Code		See Page	Code		See Page
D3		42	J14	B	36, 43	S1	A	39 (*1)
E7	B	42	J15	C	36, 43			41 (*2)
	F	42	J16	D	36, 43	S11		43
J13	A	36, 43	J17	E	36, 43	Y1		43

□ : Connector Joining Wire Harness and Wire Harness

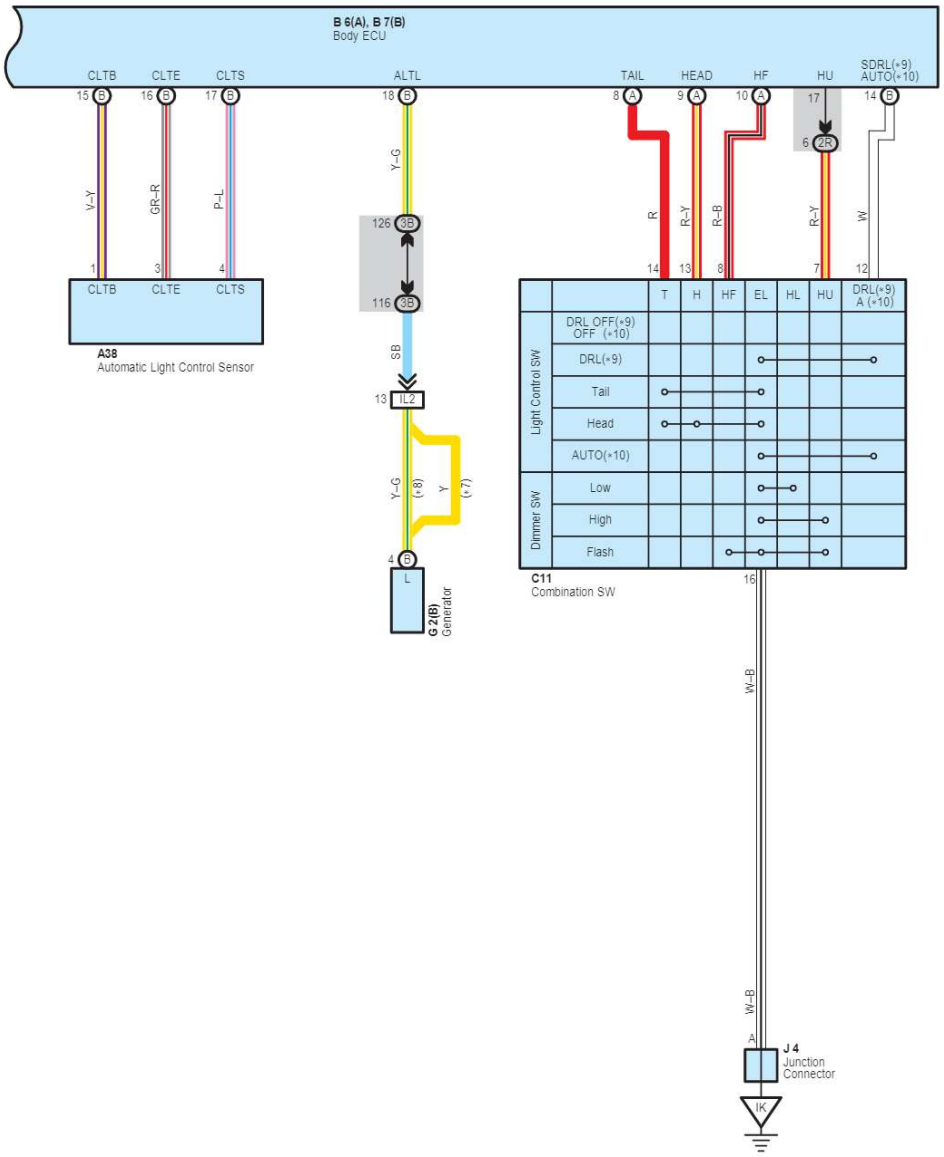
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

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


(BAT)
40A MAIN
HEAD Relay
DRL NO. 2 Relay
15A HEAD RH LWR
15A HEAD LH LWR
5A DRL
10A HEAD RH UPR
10A HEAD LH UPR
DRL NO. 4 Relay
H1 Headlight LH (High)
H2 Headlight LH (Low)
H3 Headlight RH (High)
H4 Headlight RH (Low)
D16 Daytime Running Light Resistor
IF2
3A
EB
EC


* 1 : Pedal Type
* 2 : Lever Type
* 3 : TMMK Made
* 4 : TMC Made
* 5 : w/ Power Adjustable Pedals
* 6 : w/o Power Adjustable Pedals
(BAT)
(IG)
10A ECU-B
10A ECU-IG
B
SIG
B 6(A), B 7(B)
Body ECU
GND
HRLY
DRL
SGND
PKB
W(*3)
W-L(*4)
W-L
W-R
R-Y
W-B
R-W
W
R-B
R
SB
BR
R-L
C 7(A)
Combination Meter
High Beam
Head
DRL NO. 3 Relay
J22(A), J23(B)
Junction Connector
P 3(A), (B)
Parking Brake SW

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

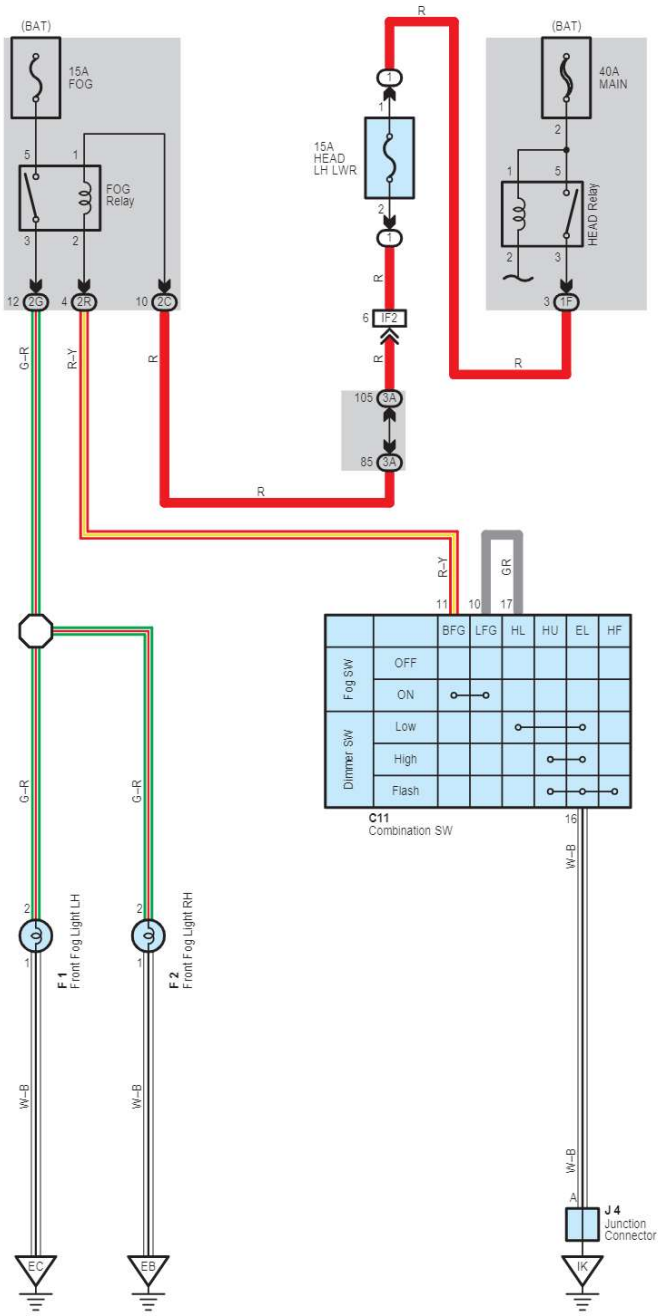
▭ : Connector Joining Wire Harness and Wire Harness

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


(BAT)
15A
FOG
FOG
Relay
12 2G
4 2R
10 2C
G–R
R–Y
R
15A
HEAD
LH LWR
R
6 IF2
105 3A
85 3A
(BAT)
40A
MAIN
HEAD Relay
3 1F
R
R
R–Y
GR
11
10
17
BFG
LFG
HL
HU
EL
HF
Fog SW
OFF
ON
Dimmer SW
Low
High
Flash
C11
Combination SW
16
W–B
G–R
G–R
2
1
F 1
Front Fog Light LH
F 2
Front Fog Light RH
W–B
W–B
W–B
A
J 4
Junction
Connector
EC
EB
IK

○ : **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**

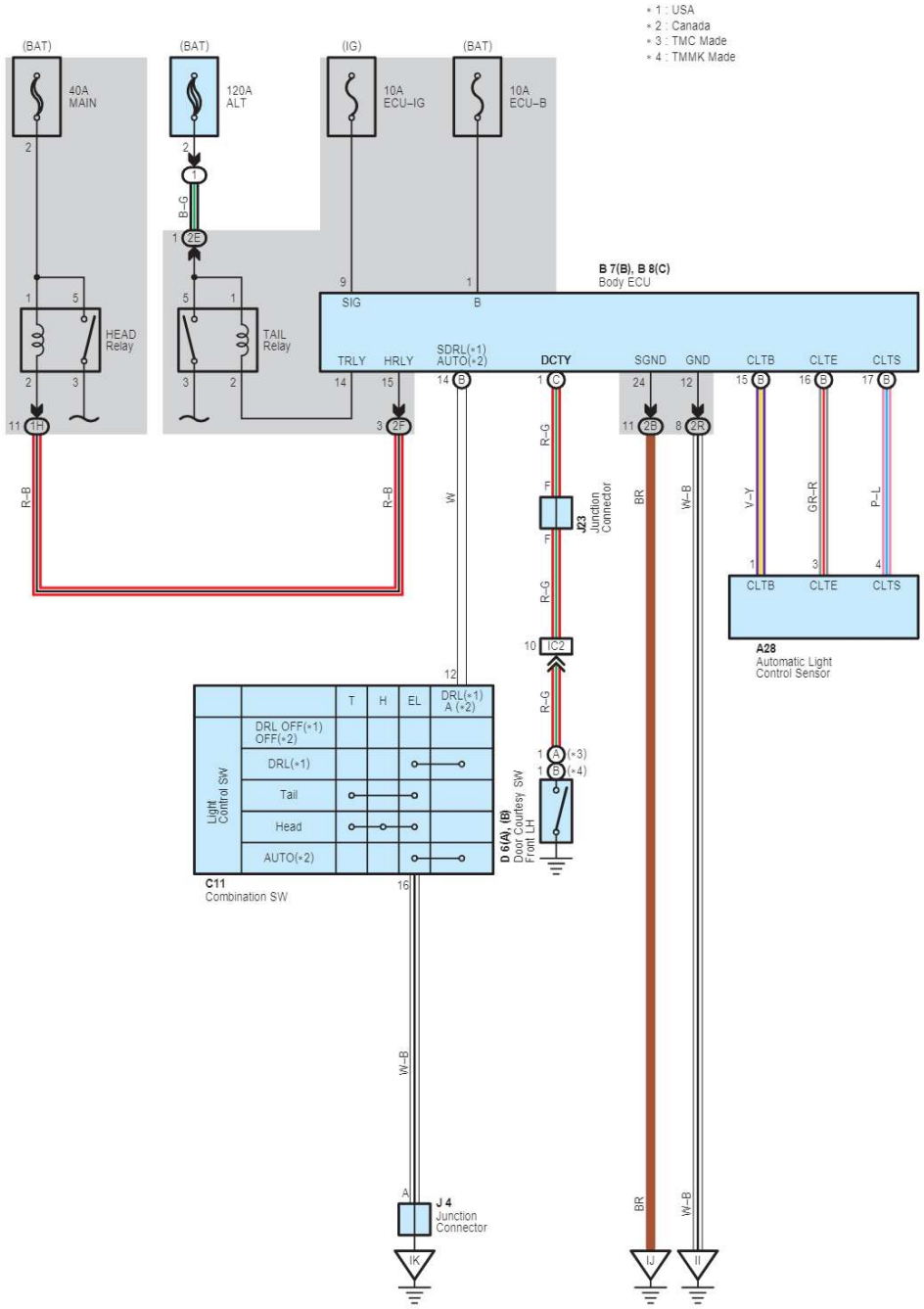
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

▽ : **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



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)

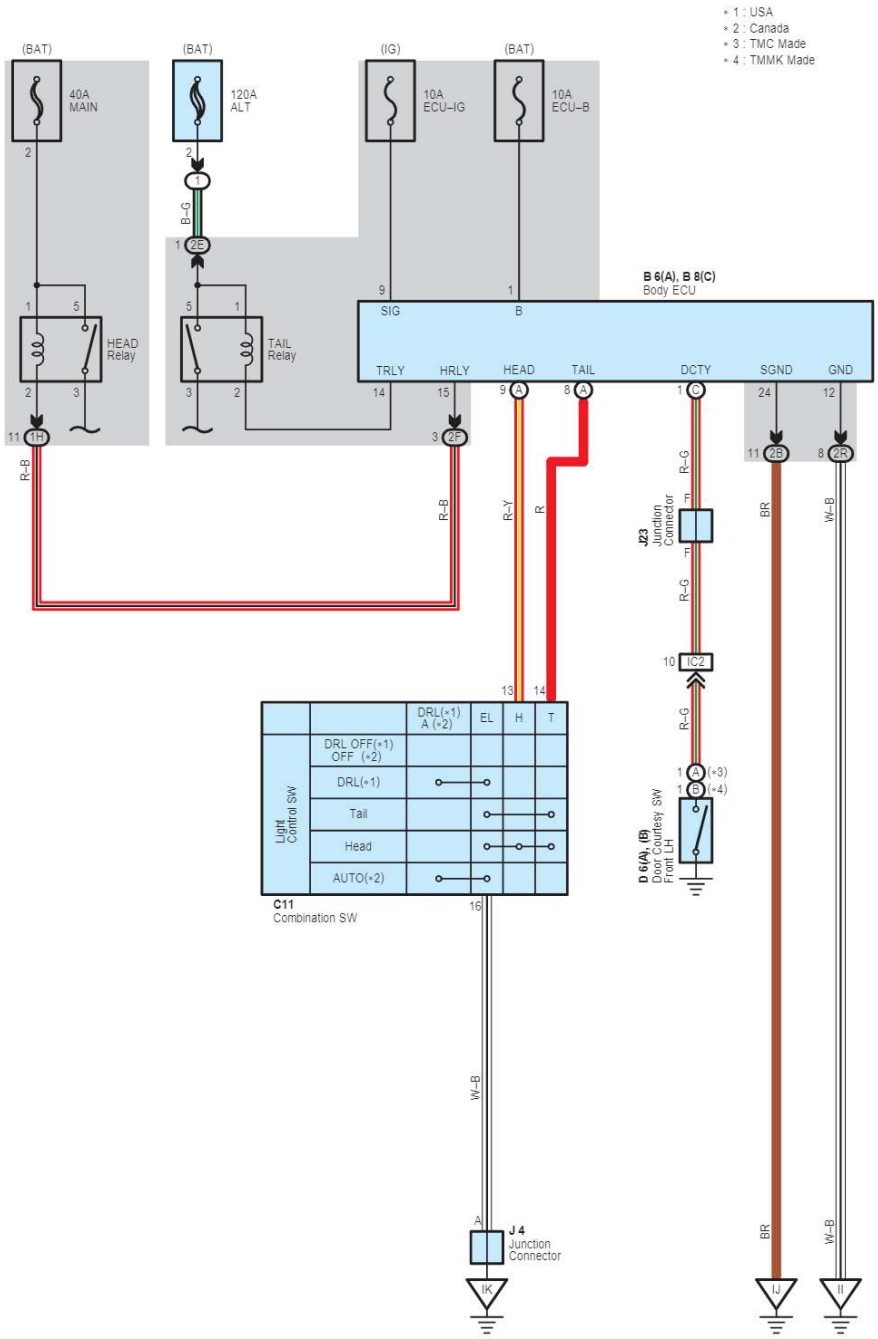
: Connector Joining Wire Harness and Wire Harness

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



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	J23	43
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

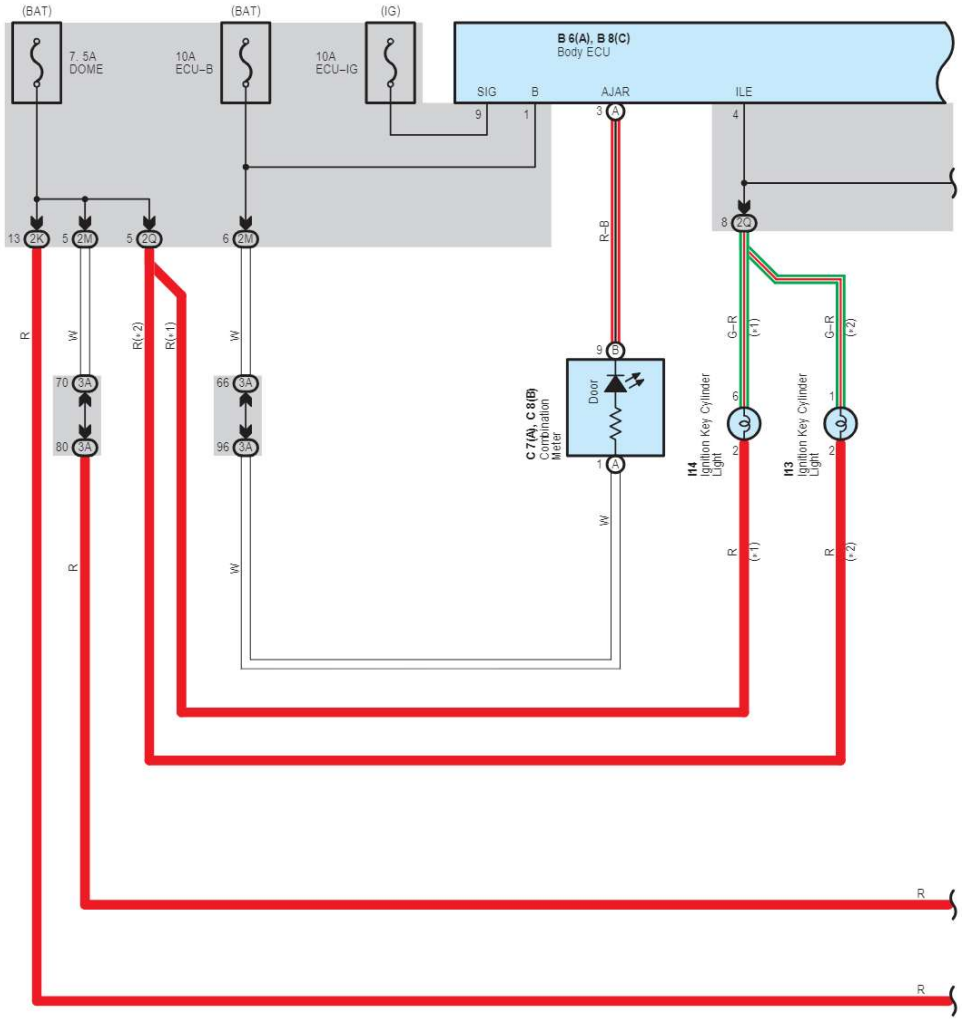
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F		
2R	29	Instrument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

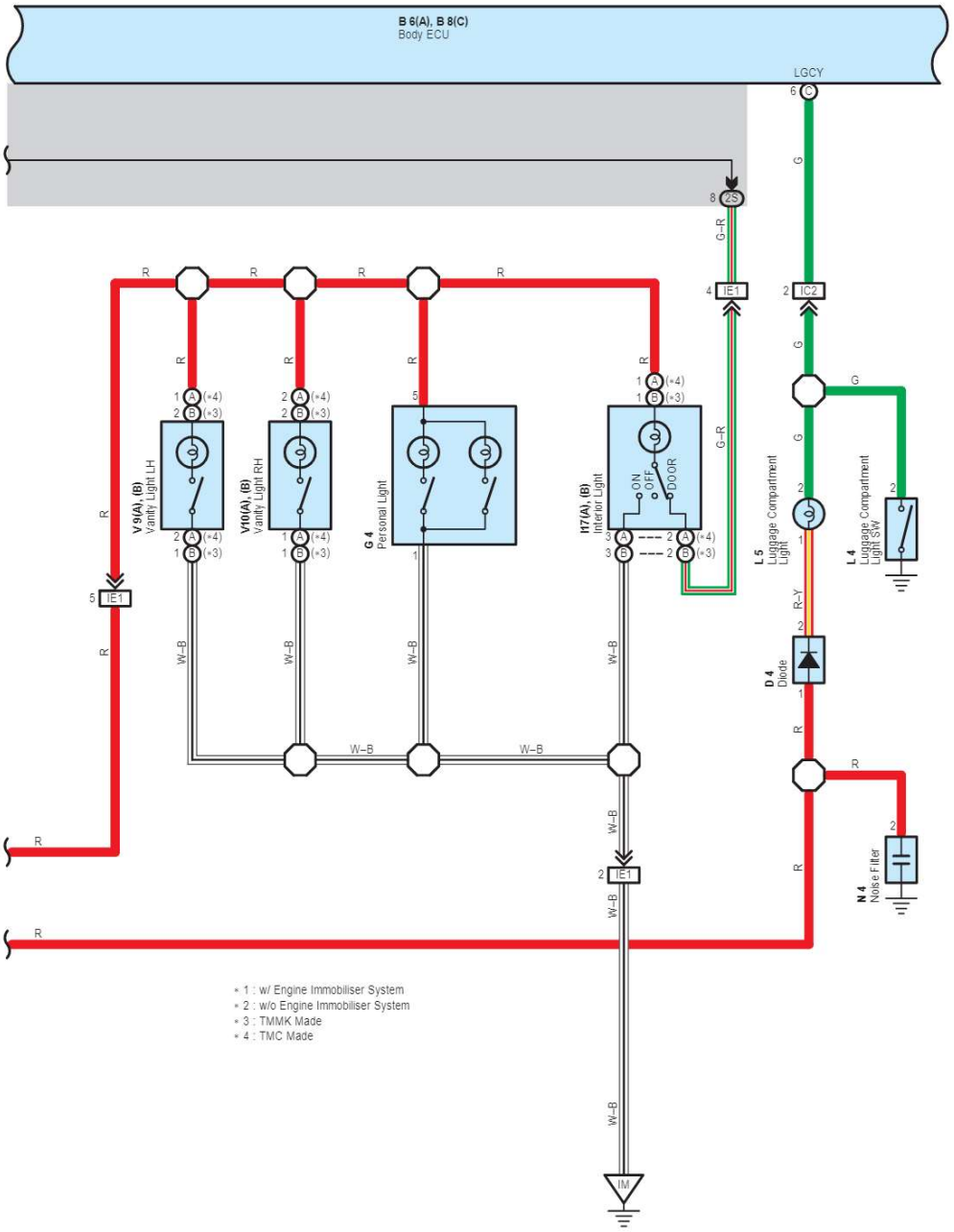
: Connector Joining Wire Harness and Wire Harness

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

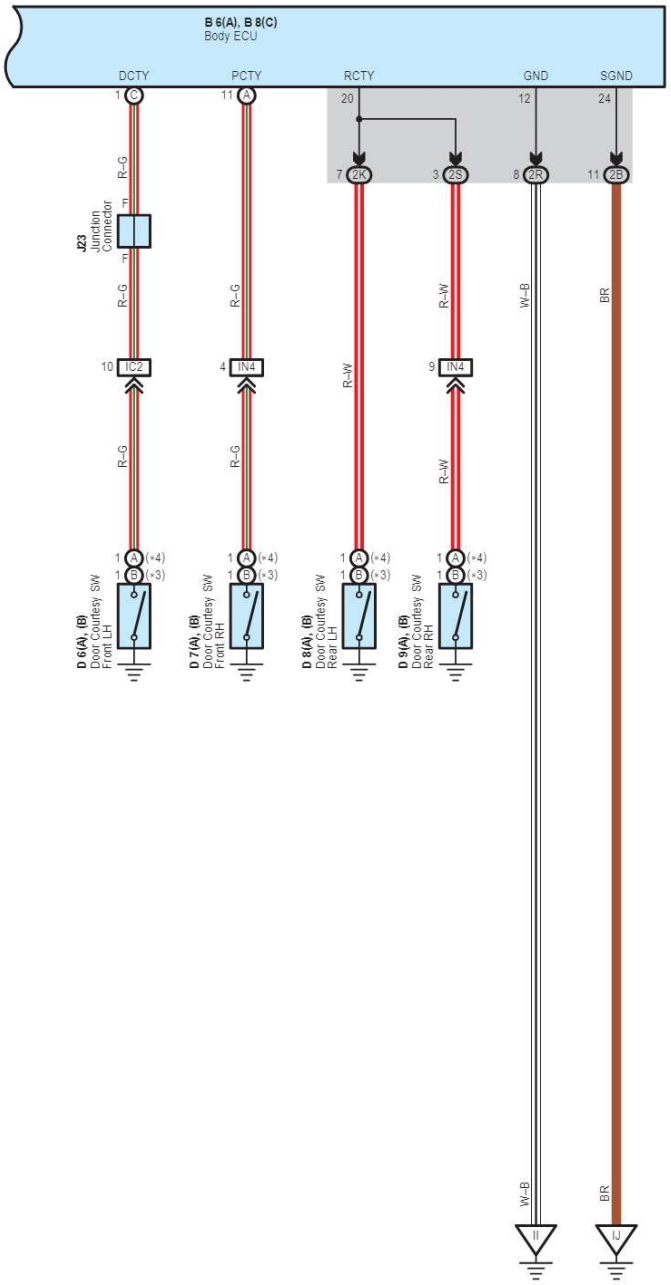
▽ : Ground Points

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


(BAT)
(BAT)
(IG)
7. 5A
DOME
10A
ECU-B
10A
ECU-IG
B 6(A), B 8(C)
Body ECU
SIG
B
AJAR
ILE
9
1
3 A
4
13 2K
5 2M
5 2Q
6 2M
8 2C
R
W
R(*2)
R(*1)
W
R-B
G-R
(*1)
G-R
(*2)
9 B
70 3A
80 3A
66 3A
96 3A
C 7(A), C 8(B)
Combination
Meter
Door
1 A
I14
Ignition Key Cylinder
Light
I13
Ignition Key Cylinder
Light
6
2
1
2
W
R
(*1)
R
(*2)
R
W
R
R


B 6(A), B 8(C)
Body ECU
LGCY
6 C
8 ZS
G
G-R
4 IE1
2 IC2
R
V9(A), (B)
Vanity Light LH
V10(A), (B)
Vanity Light RH
G 4
Personal Light
I17(A), (B)
Interior Light
ON
OFF
DOOR
L5
Luggage Compartment Light
L4
Luggage Compartment Light SW
R-Y
D 4
Diode
N 4
Noise Filter
5 IE1
W-B
2 IE1
IM
* 1 : w/ Engine Immobiliser System
* 2 : w/o Engine Immobiliser System
* 3 : TMMK Made
* 4 : TMC Made

* 3 : TMMK Made
* 4 : TMC Made



○ : **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**

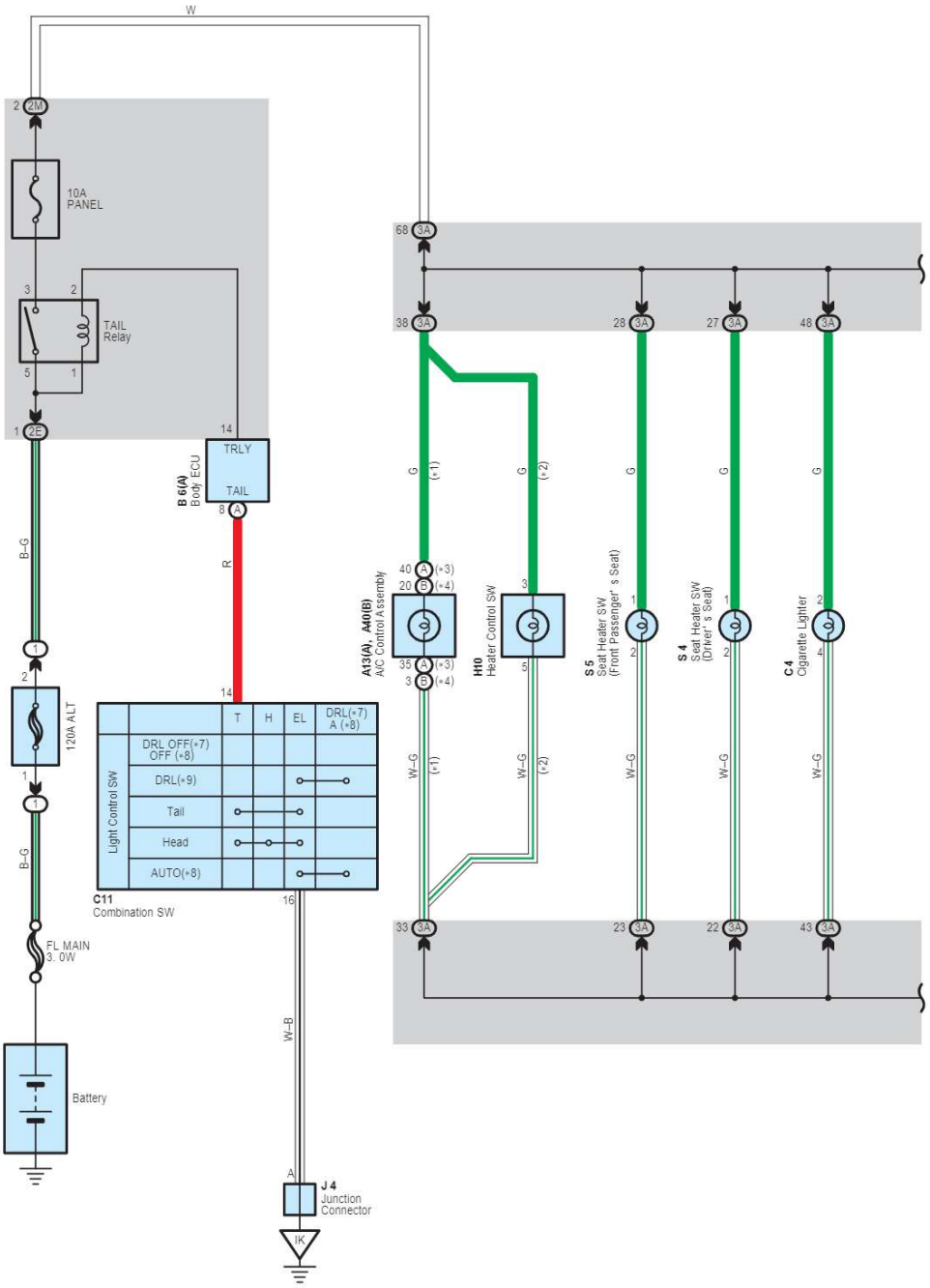
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2Q		
2R		
2S		
3A	34	Instrument Panel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

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

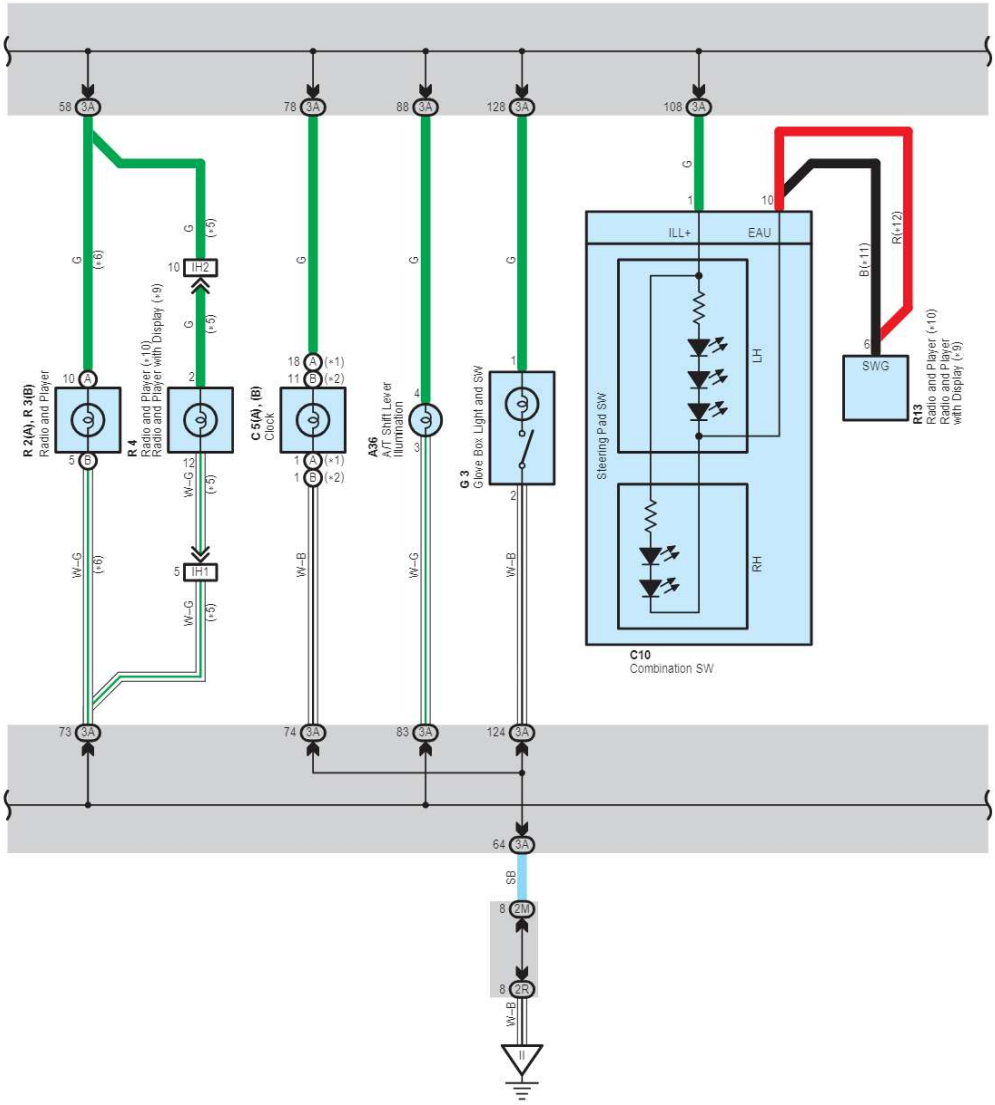
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE1	50	Instrument Panel Wire and Roof Wire (Inside of Front Left Pillar)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

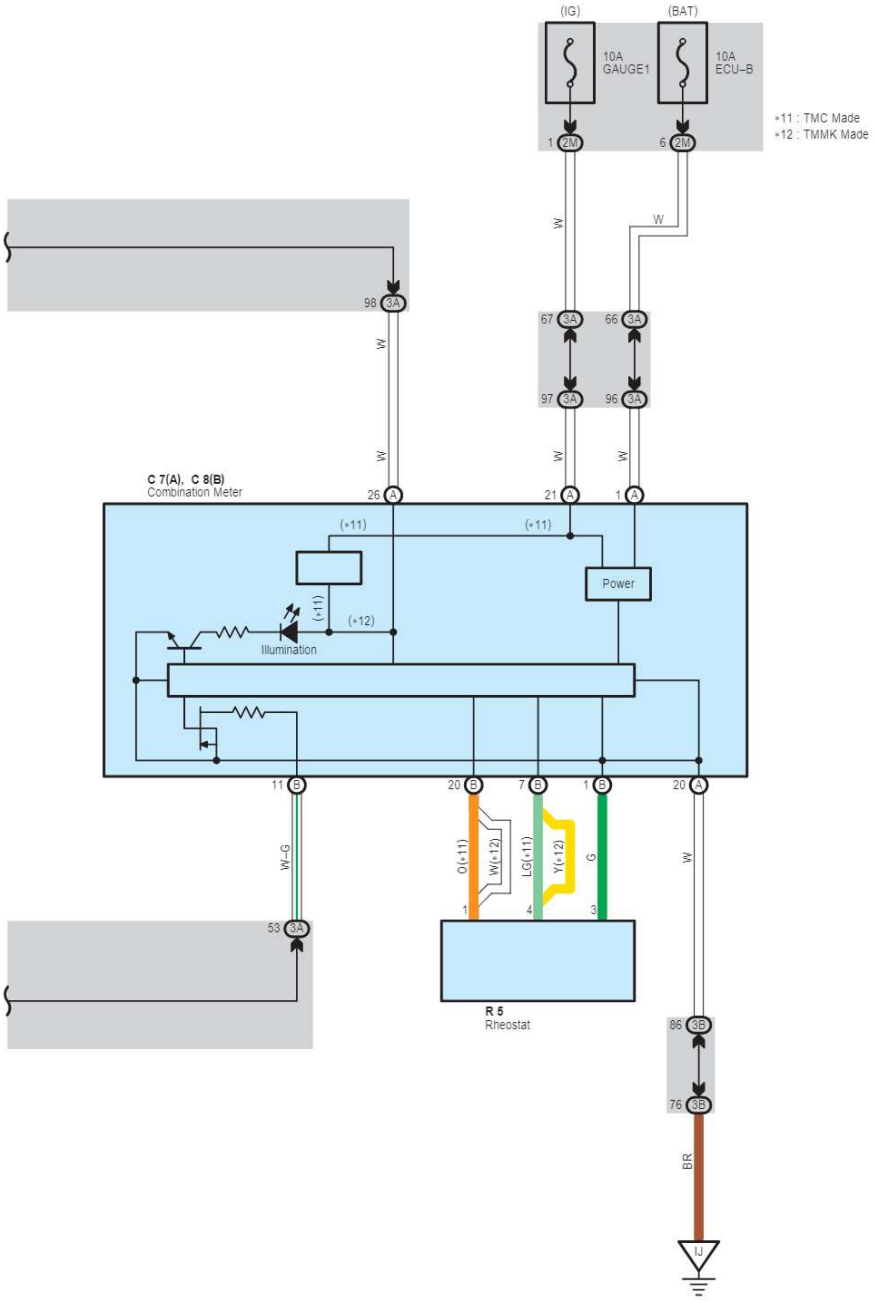
▽ : **Ground Points**

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


W
2M
10A
PANEL
TAIL
Relay
2E
TRLY
TAIL
B 6(A)
Body ECU
B–G
R
120A ALT
FL MAIN
3. 0W
Battery
Light Control SW
DRL OFF(*7)
OFF (*8)
DRL(*9)
Tail
Head
AUTO(*8)
T
H
EL
DRL(*7)
A (*8)
C11
Combination SW
W–B
J 4
Junction
Connector
IK
A13(A), A40(B)
A/C Control Assembly
H10
Heater Control SW
S 5
Seat Heater SW
(Front Passenger' s Seat)
S 4
Seat Heater SW
(Driver' s Seat)
C 4
Cigarette Lighter
G
W–G
3A

* 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




(IG)
(BAT)
10A
GAUGE1
10A
ECU–B
*11 : TMC Made
*12 : TMMK Made
1 2M
6 2M
W
98 3A
67 3A
66 3A
97 3A
96 3A
C 7(A), C 8(B)
Combination Meter
26 A
21 A
1 A
(*11)
(*12)
Power
Illumination
11 B
20 B
7 B
1 B
20 A
W–G
O(*11)
W(*12)
LG(*11)
Y(*12)
G
53 3A
R 5
Rheostat
86 3B
76 3B
BR

○ : **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		

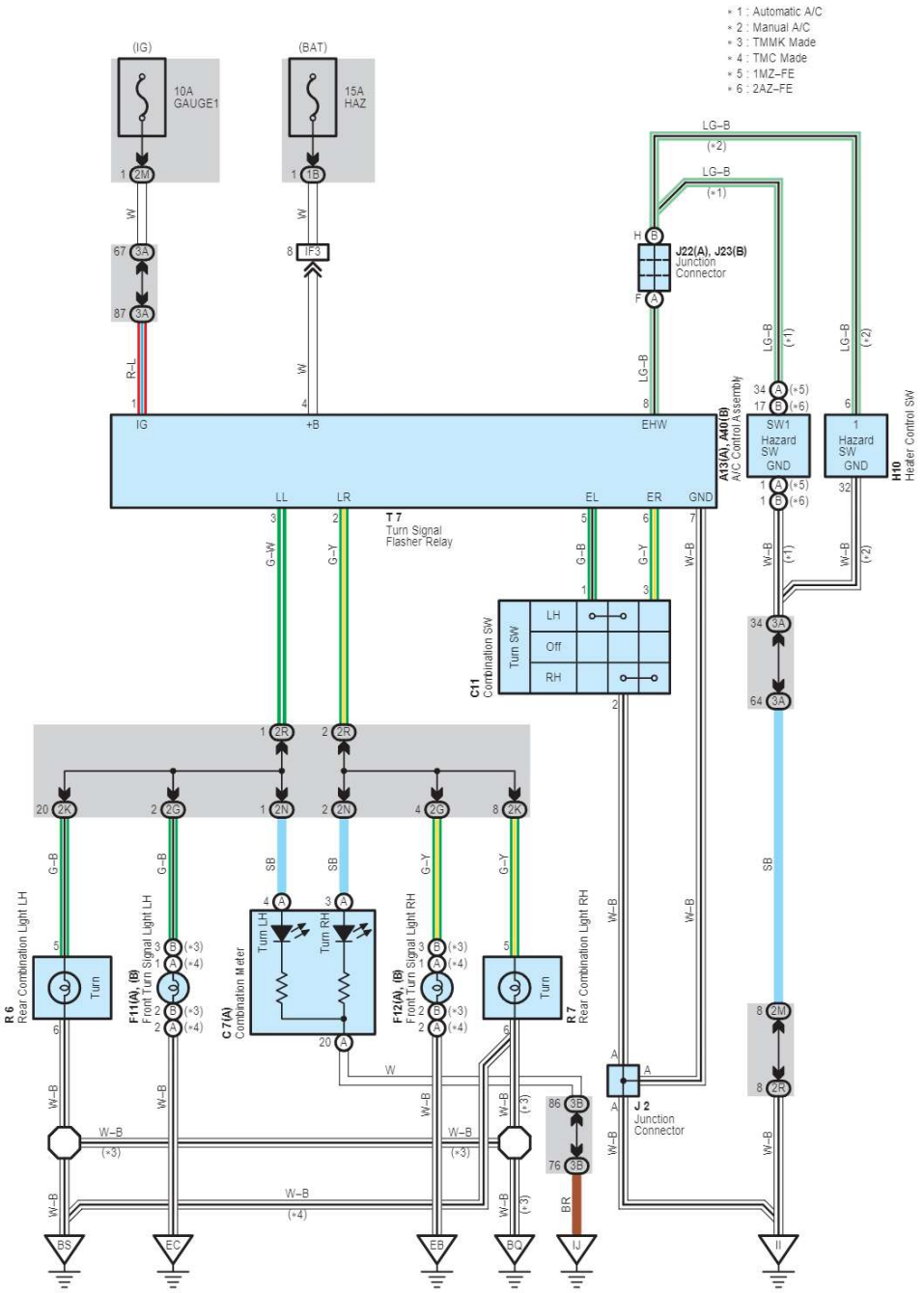
▭ : **Connector Joining Wire Harness and Wire Harness**

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		

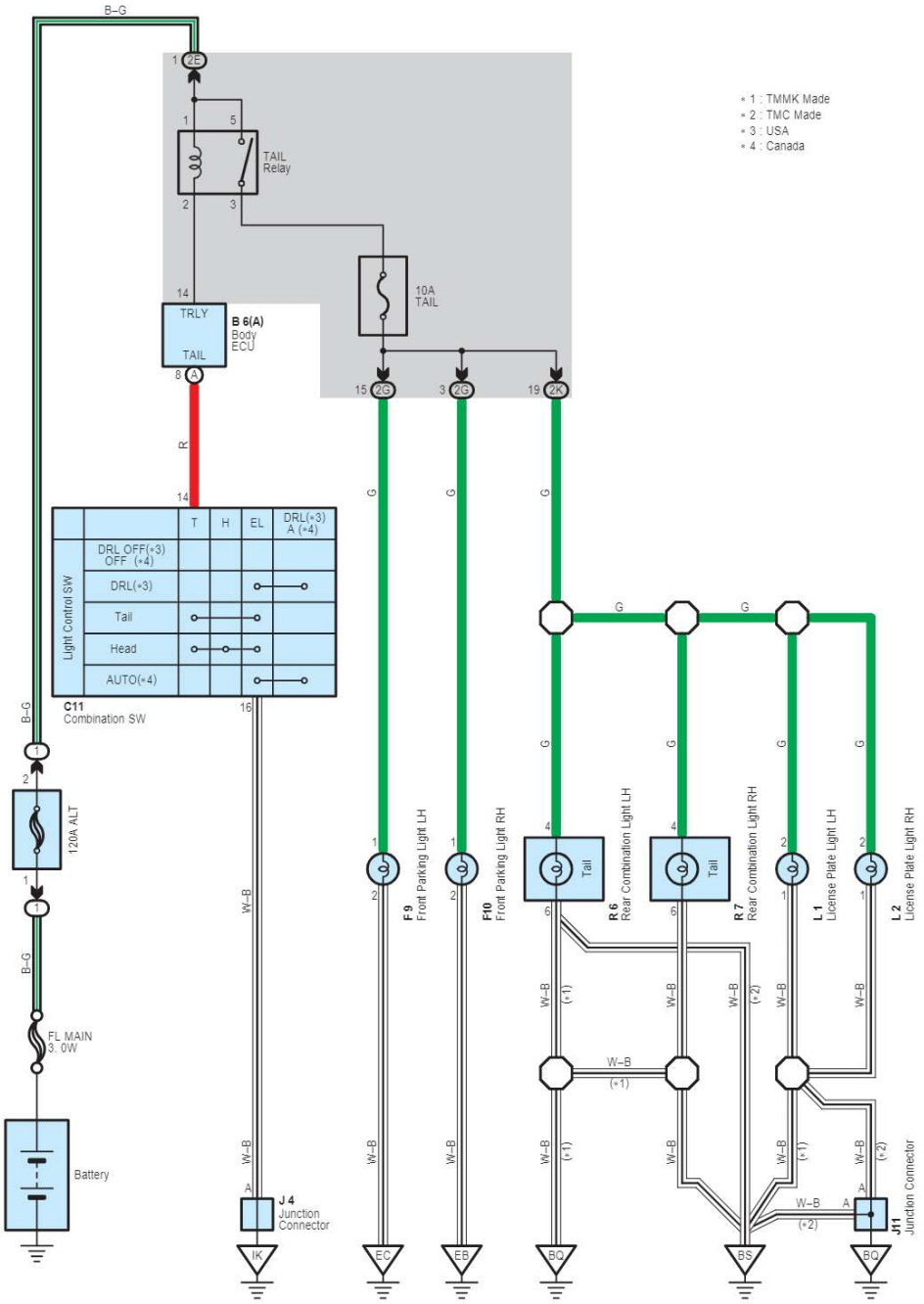
▭ : **Connector Joining Wire Harness and Wire Harness**

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


B–G
2E
TAIL Relay
10A TAIL
TRLY
TAIL
B 6(A) Body ECU
8 A
R
14
T
H
EL
DRL(*3) A (*4)
DRL OFF(*3) OFF (*4)
DRL(*3)
Tail
Head
AUTO(*4)
Light Control SW
C11 Combination SW
16
15 2G
3 2G
19 2K
G
W–B
(*1)
(*2)
120A ALT
FL MAIN 3. 0W
Battery
J 4 Junction Connector
IK
EC
EB
BQ
BS
F9 Front Parking Light LH
F10 Front Parking Light RH
R 6 Rear Combination Light LH
R 7 Rear Combination Light RH
L 1 License Plate Light LH
L 2 License Plate Light RH
Tail
J11 Junction Connector
* 1 : TMMK Made
* 2 : TMC Made
* 3 : USA
* 4 : Canada

○ : **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**

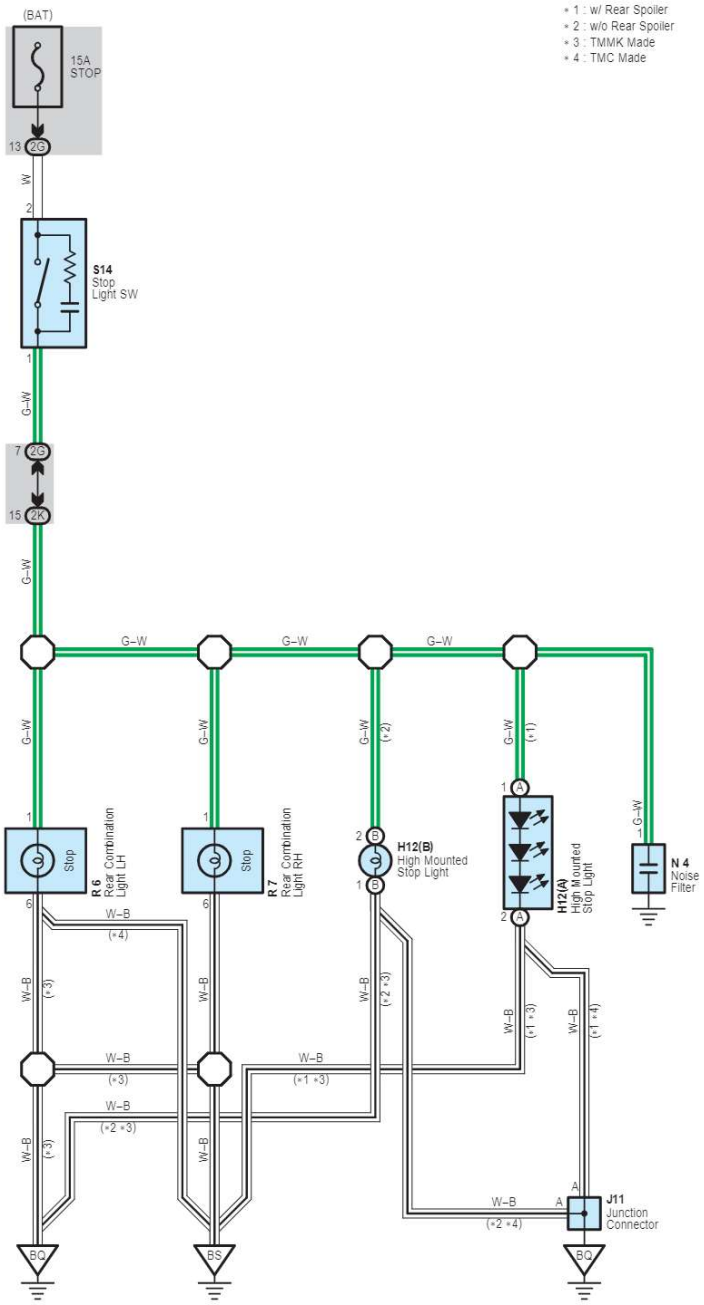
Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2G		
2K	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

▽ : **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

Stop Light


* 1 : w/ Rear Spoiler
* 2 : w/o Rear Spoiler
* 3 : TMMK Made
* 4 : TMC Made
(BAT)
15A
STOP
2G
2K
S14
Stop
Light SW
G-W
W-B
R 6
Rear Combination
Light LH
R 7
Rear Combination
Light RH
Stop
H12(B)
High Mounted
Stop Light
H12(A)
High Mounted
Stop Light
N 4
Noise
Filter
J11
Junction
Connector
BQ
BS

○ : **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		

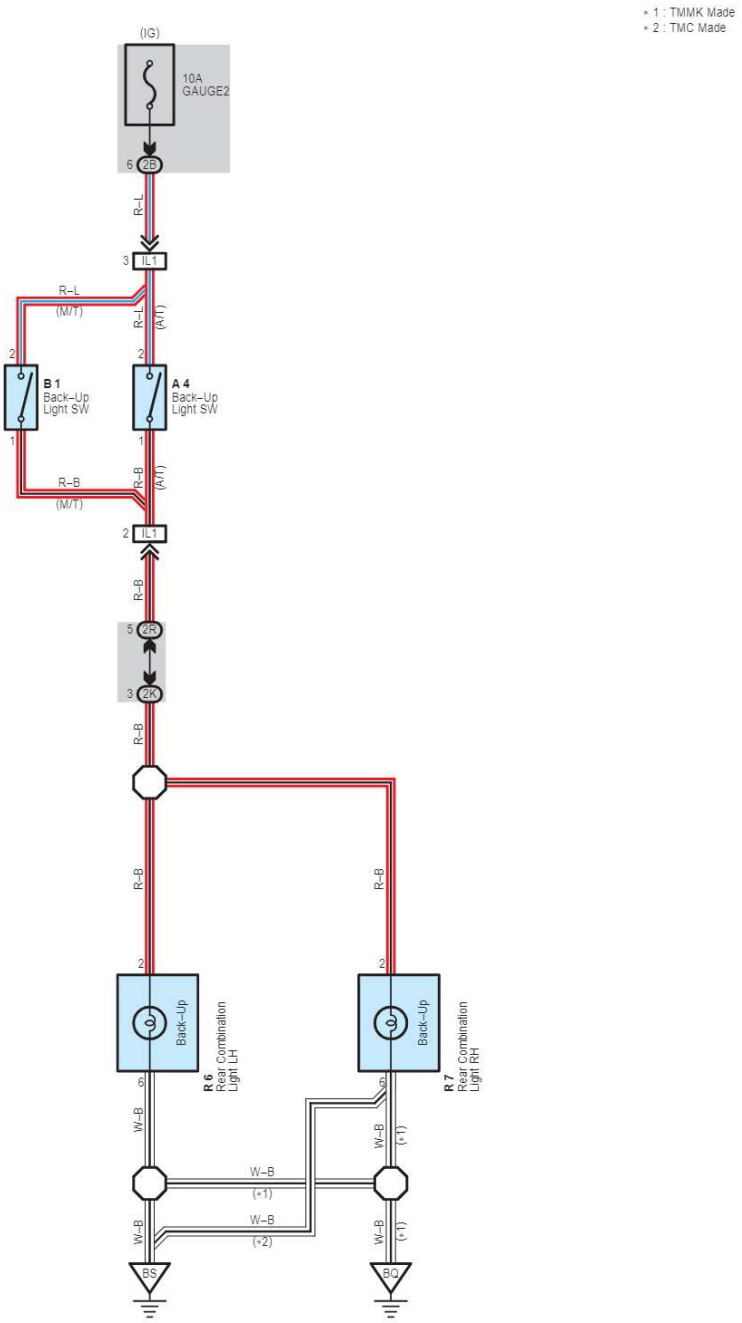
: **Junction Block and Wire Harness Connector**

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



○ : **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)

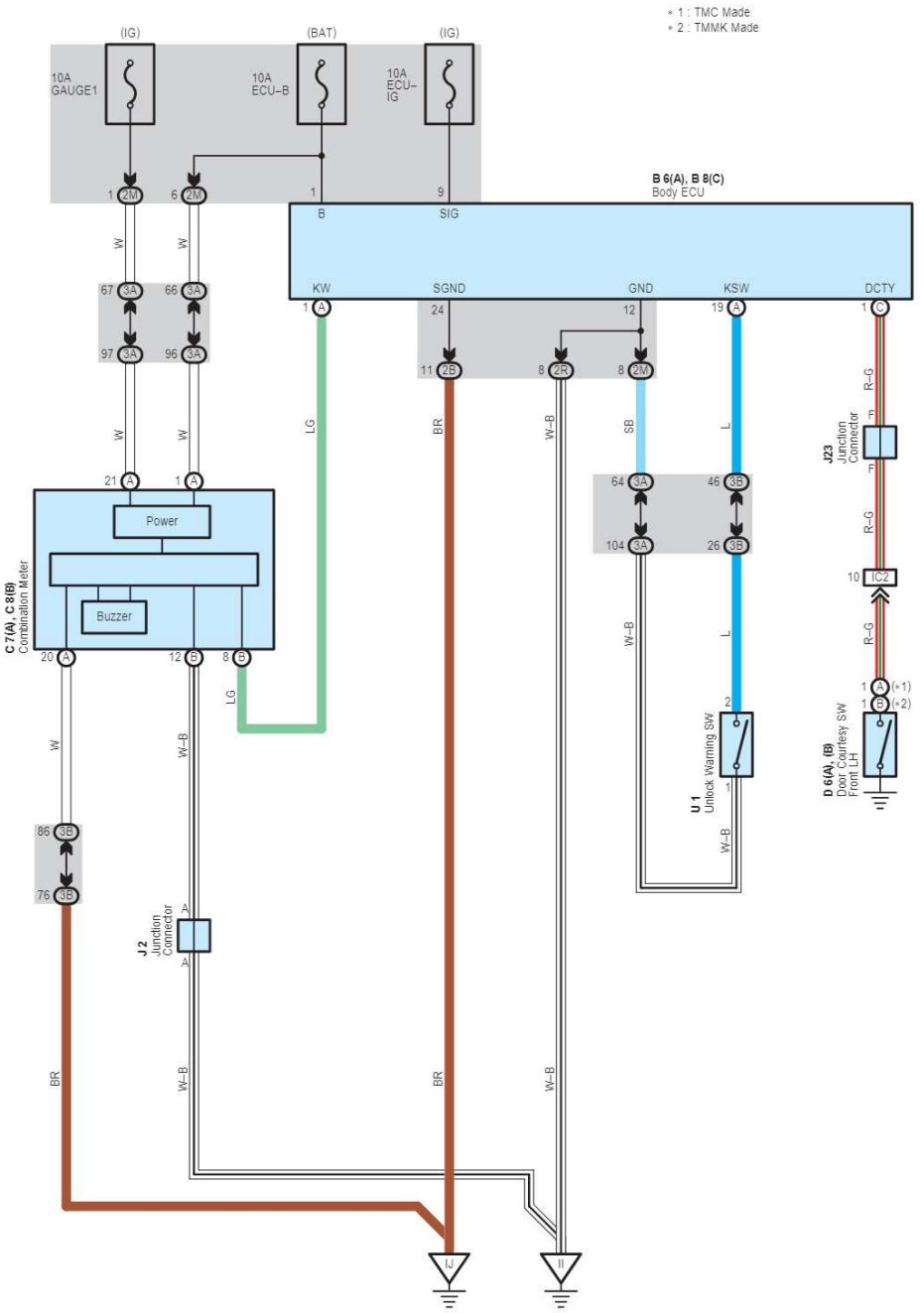
▭ : **Connector Joining Wire Harness and Wire Harness**

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


* 1 : TMC Made
* 2 : TMMK Made
(IG)
(BAT)
(IG)
10A GAUGE1
10A ECU-B
10A ECU-IG
B 6(A), B 8(C)
Body ECU
KW
SGND
GND
KSW
DCTY
SIG
Power
Buzzer
C 7(A), C 8(B)
Combination Meter
J2
Junction Connector
J23
Junction Connector
U 1
Unlock Warning SW
D 6(A), (B)
Door Courtesy SW Front LH
W
W-B
LG
BR
SB
L
R-G

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.

O : Parts Location

Code		See Page	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

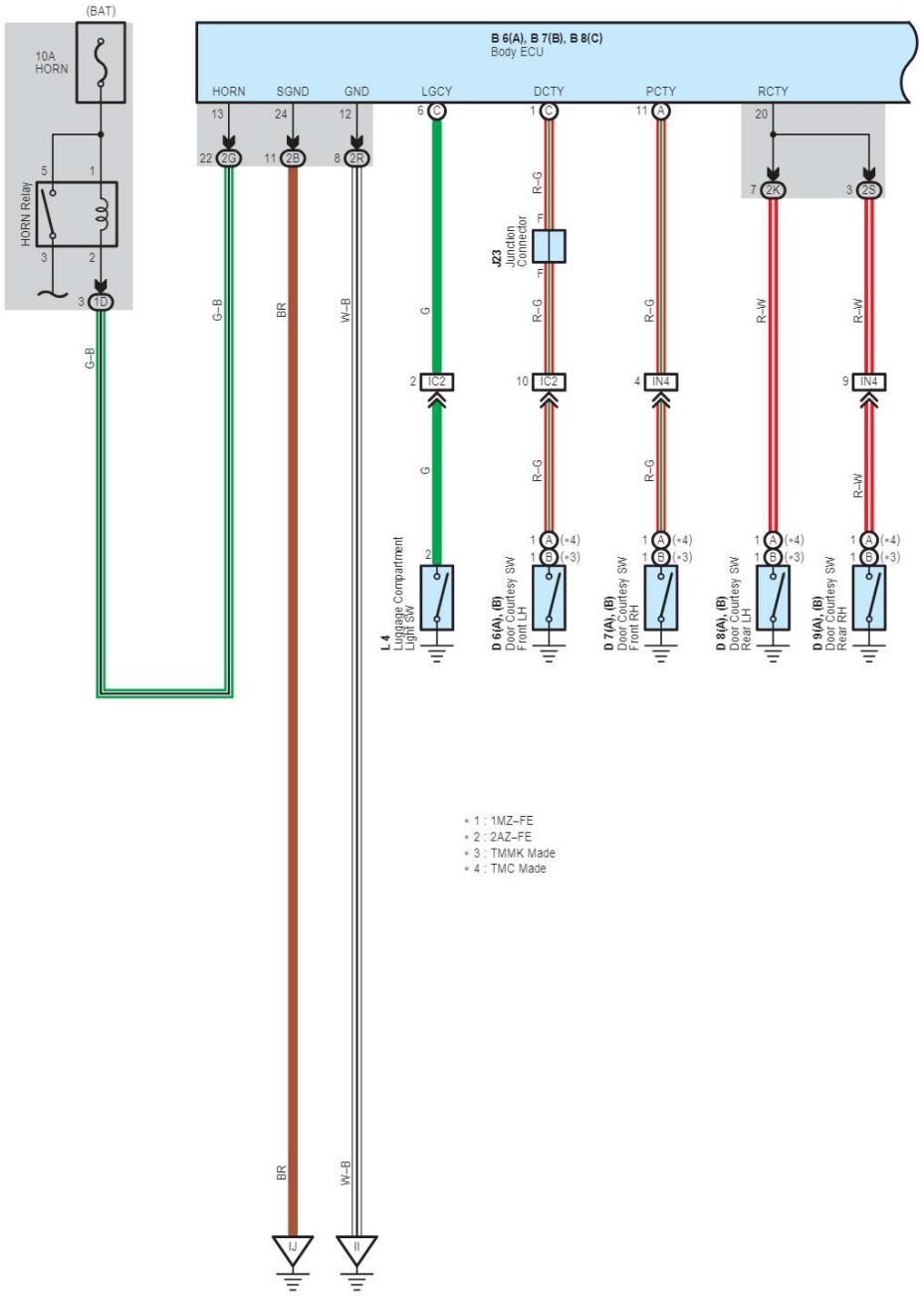
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2M	29	
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)
3B		

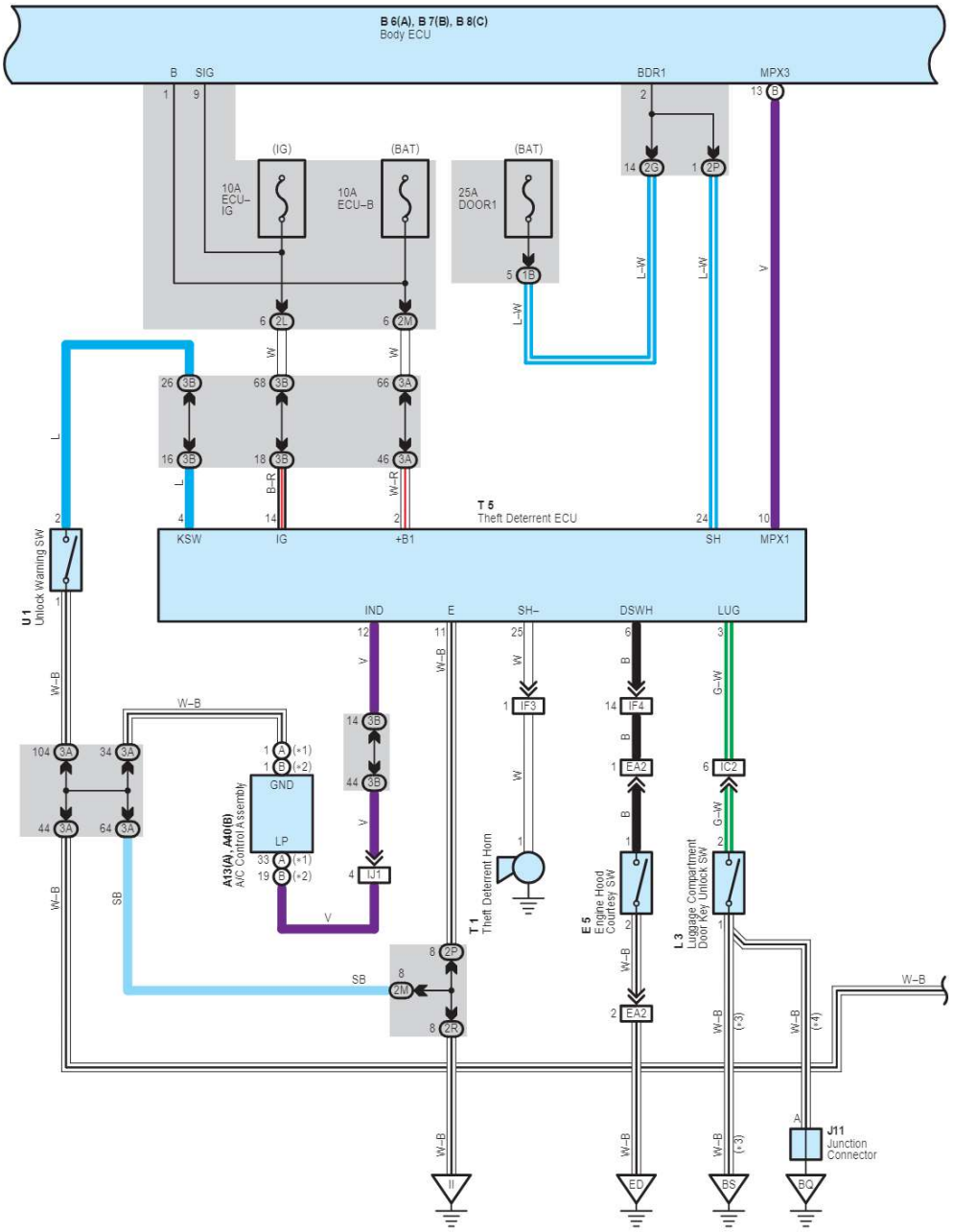
: Connector Joining Wire Harness and Wire Harness

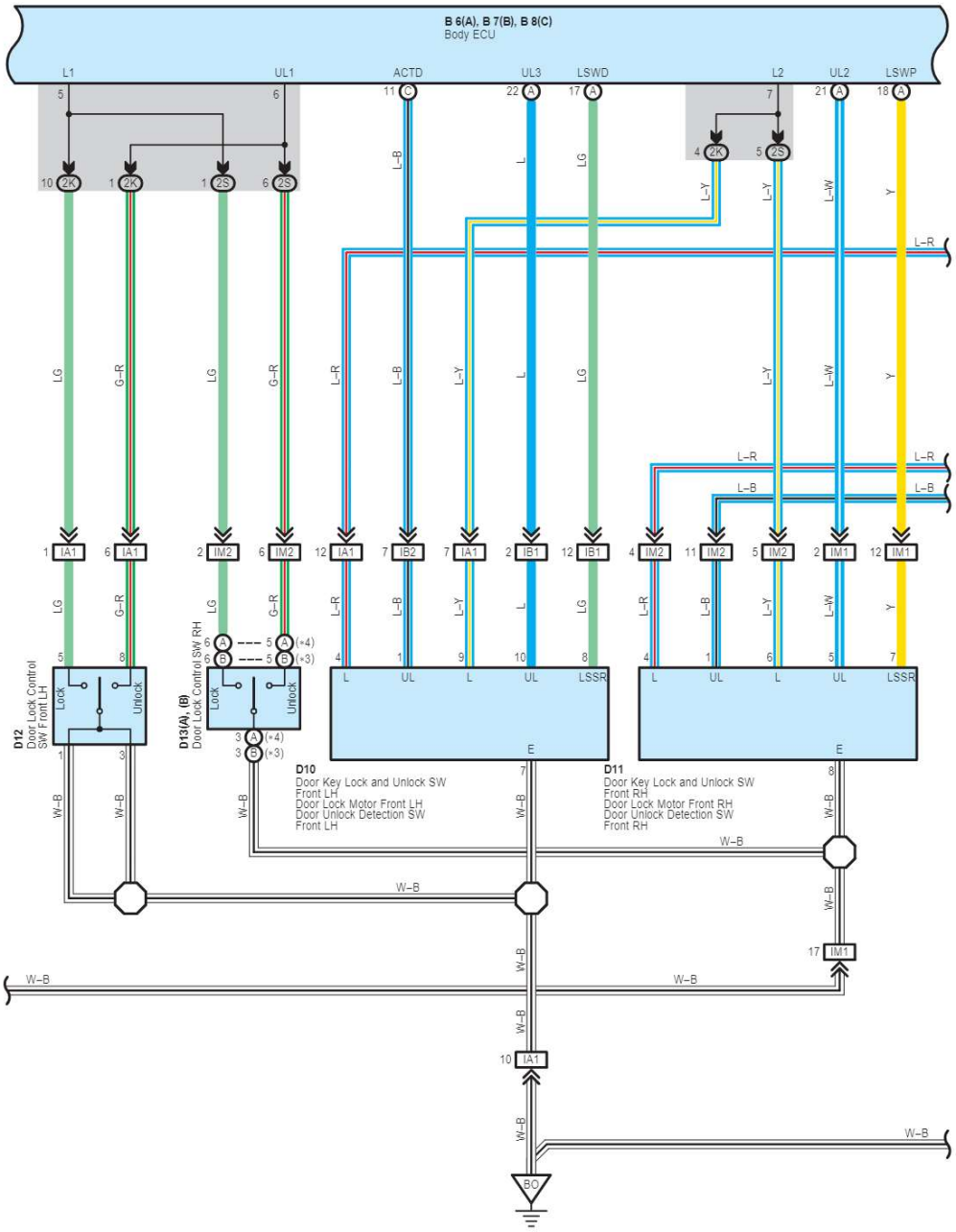
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)

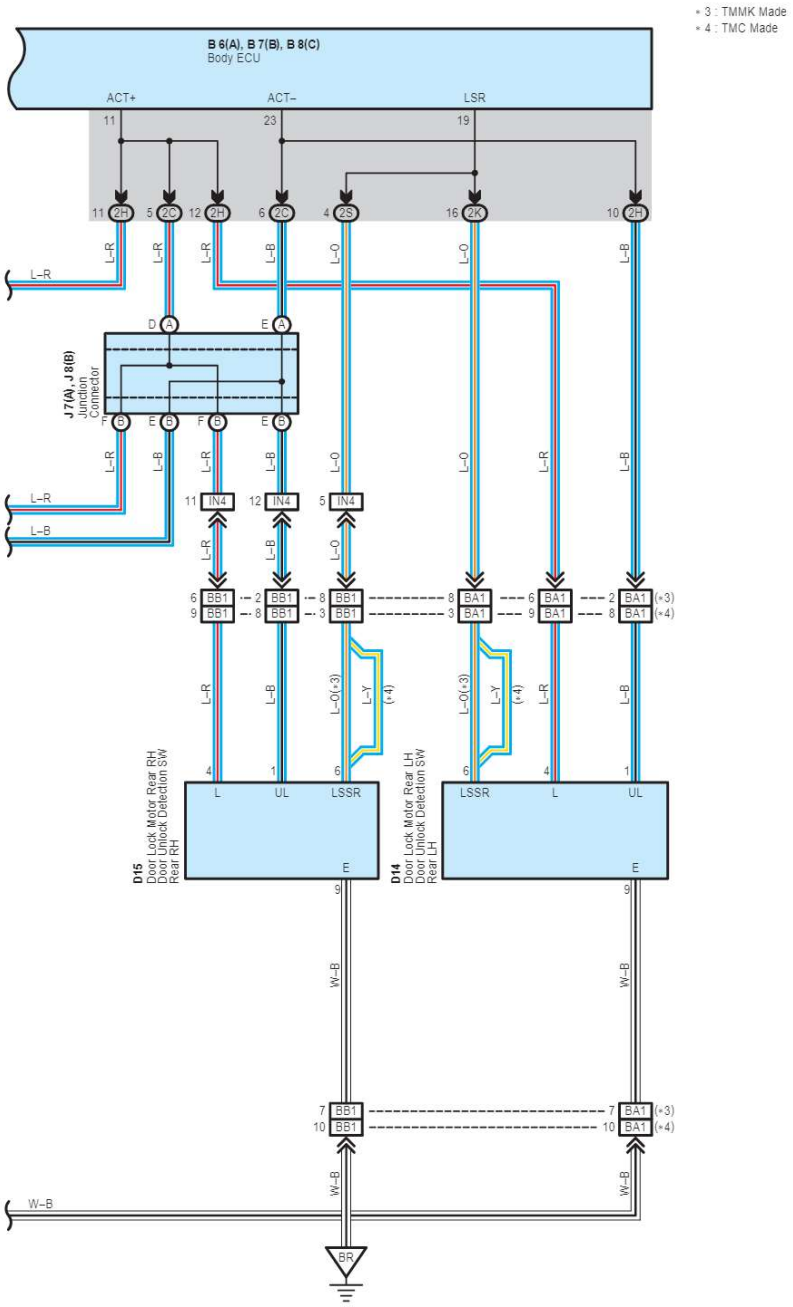
: Ground Points

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


(BAT)
10A
HORN
HORN Relay
B 6(A), B 7(B), B 8(C)
Body ECU
HORN
SGND
GND
LGCY
DCTY
PCTY
RCTY
J23
Junction Connector
L 4
Luggage Compartment Light SW
D 6(A), (B)
Door Courtesy SW Front LH
D 7(A), (B)
Door Courtesy SW Front RH
D 8(A), (B)
Door Courtesy SW Rear LH
D 9(A), (B)
Door Courtesy SW Rear RH
G–B
BR
W–B
R–G
R–W
G
* 1 : 1MZ–FE
* 2 : 2AZ–FE
* 3 : TMMK Made
* 4 : TMC Made


B 6(A), B 7(B), B 8(C)
Body ECU
B
SIG
BDR1
MPX3
(IG)
(BAT)
(BAT)
10A ECU-IG
10A ECU-B
25A DOOR1
T 5
Theft Deterrent ECU
KSW
IG
+B1
SH
MPX1
IND
E
SH-
DSWH
LUG
U 1
Unlock Warning SW
A13(A), A40(B)
A/C Control Assembly
GND
LP
T 1
Theft Deterrent Horn
E 5
Engine Hood Courtesy SW
L 3
Luggage Compartment Door Key Unlock SW
J11
Junction Connector
W-B
SB
L
B-R
W-R
L-W
G-W
V
B
W


B 6(A), B 7(B), B 8(C)
Body ECU
L1
UL1
ACTD
UL3
LSWD
L2
UL2
LSWP
D12
Door Lock Control SW Front LH
Lock
Unlock
D13(A), (B)
Door Lock Control SW 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
W–B
L–R
L–B
L–Y
L–W
LG
G–R
L
Y
BO


* 3 : TMMK Made
* 4 : TMC Made
B 6(A), B 7(B), B 8(C)
Body ECU
ACT+
ACT–
LSR
J7(A), J8(B)
Junction Connector
D15
Door Lock Motor Rear RH
Door Unlock Detection SW Rear RH
D14
Door Lock Motor Rear LH
Door Unlock Detection SW Rear LH
L–R
L–B
L–O
L–Y
W–B
BB1
BA1
IN4
2H
2C
2K
2S
L
UL
LSSR
E
BR

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.

O : 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**

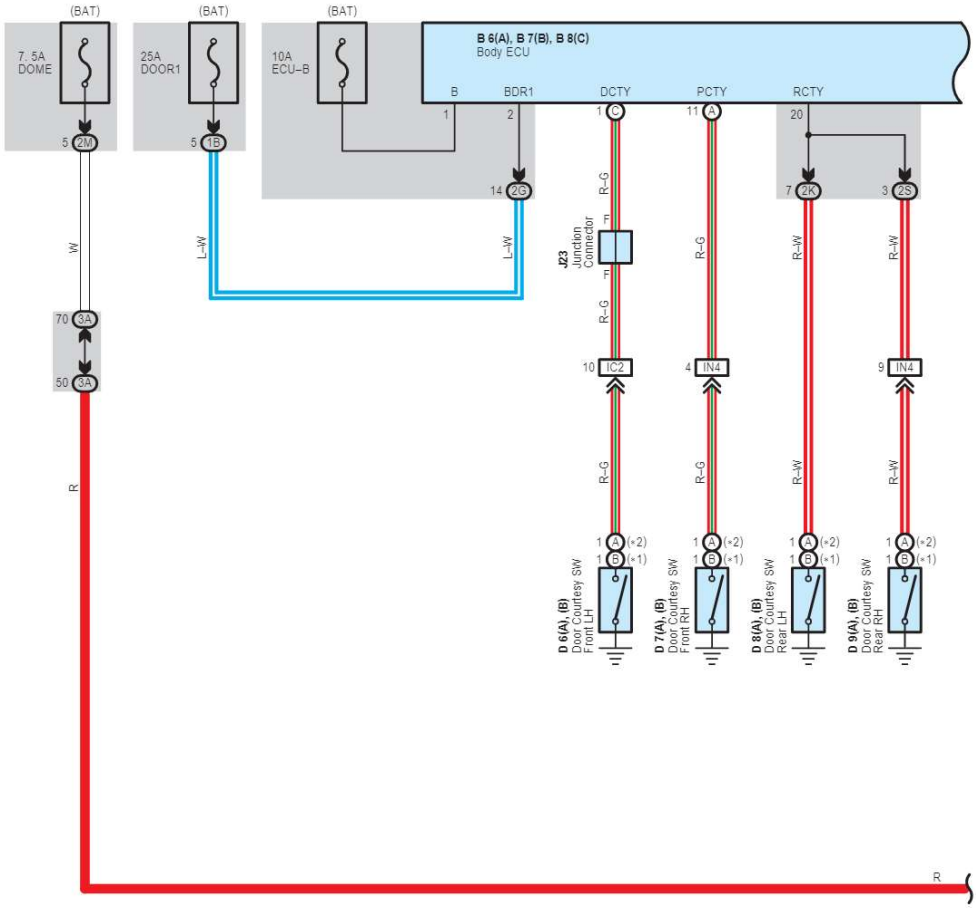
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	48 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Radiator Side Support LH)
	49 (*2)	
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2		
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)

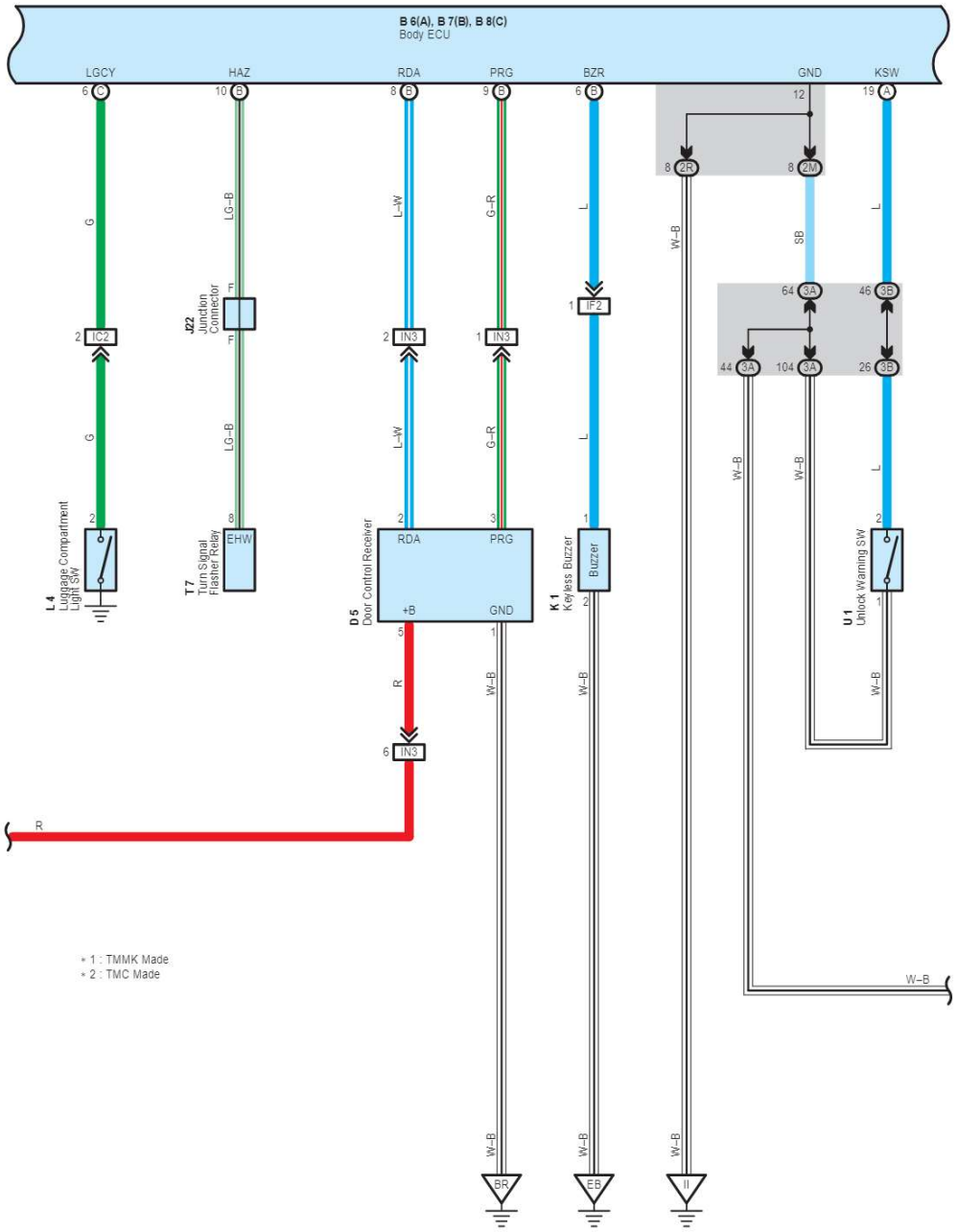
: **Ground Points**

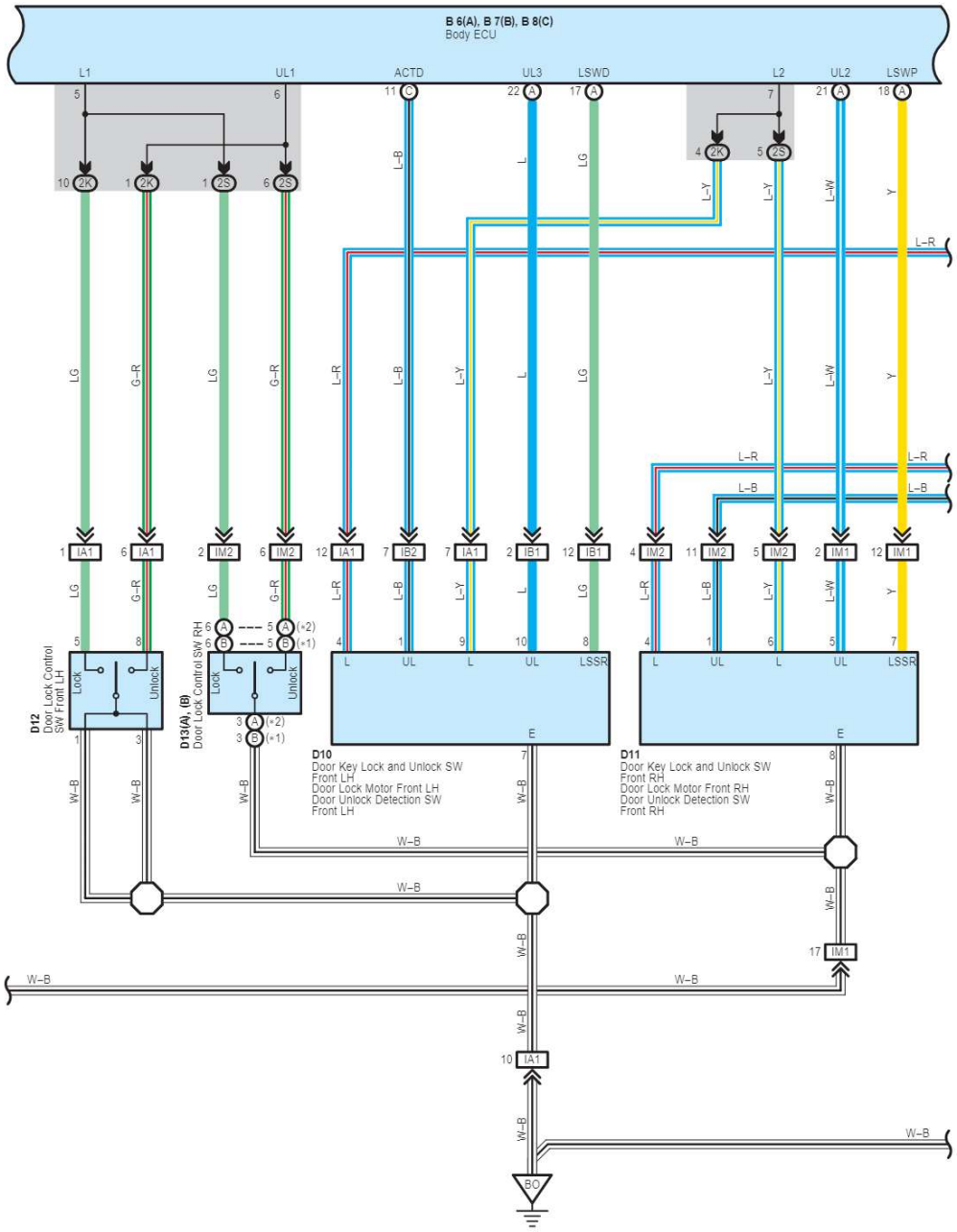
Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
	49 (*2)	
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH
BO	52	Under the Driver's Seat
BQ	52	Front Side of Rear Quarter Wheel House LH
BR	52	Front Side of Rear Quarter Wheel House RH
BS	52	Lower Back Panel Center

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

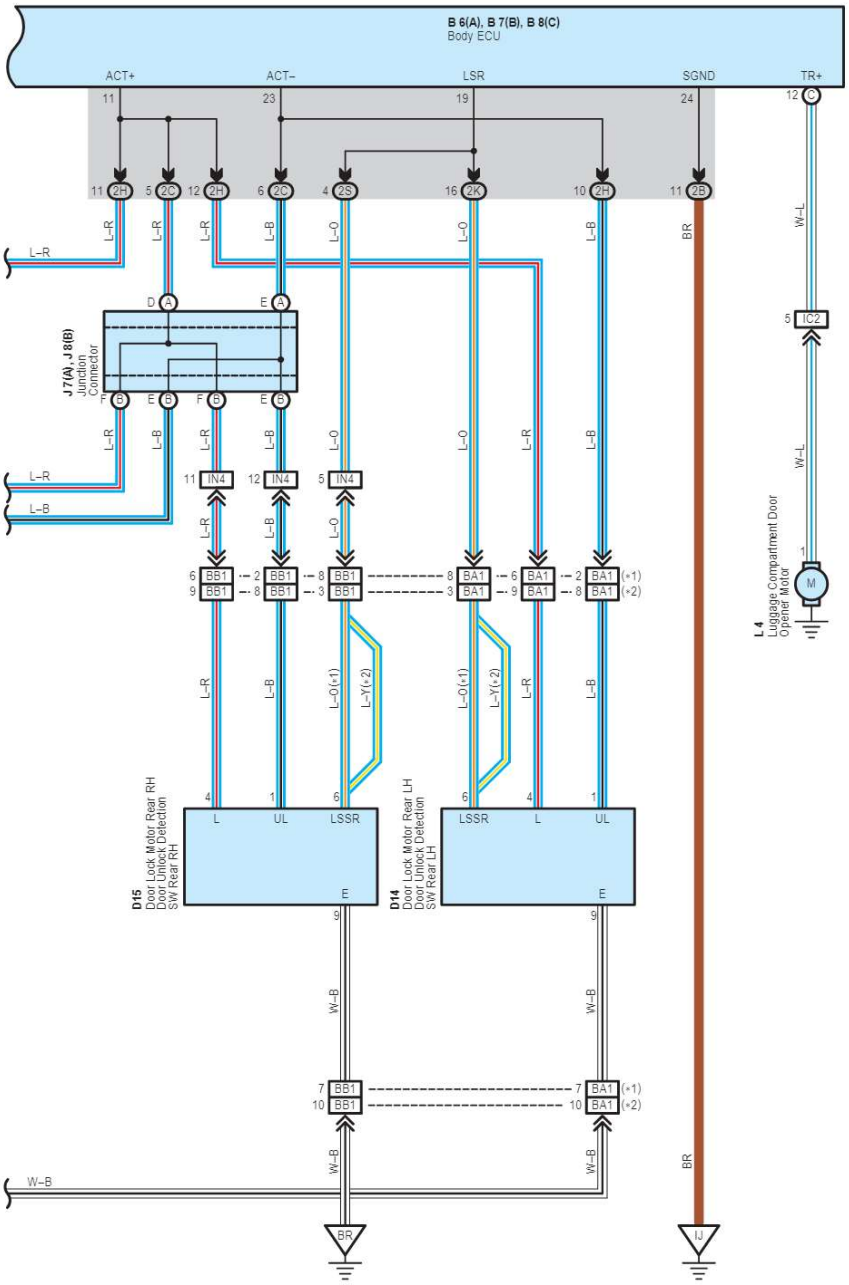
Wireless Door Lock Control




B 6(A), B 7(B), B 8(C)
Body ECU
LGCY
HAZ
RDA
PRG
BZR
GND
KSW
IC2
IF2
IN3
2R
2M
3A
3B
J22
Junction Connector
L 4
Luggage Compartment Light SW
T 7
Turn Signal Flasher Relay
EHW
D 5
Door Control Receiver
RDA
PRG
+B
GND
K 1
Keyless Buzzer
Buzzer
U 1
Unlock Warning SW
BR
EB
W-B
* 1 : TMMK Made
* 2 : TMC Made


B 6(A), B 7(B), B 8(C)
Body ECU
L1
UL1
ACTD
UL3
LSWD
L2
UL2
LSWP
D12
Door Lock Control SW Front LH
D13(A), (B)
Door Lock Control SW 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
Lock
Unlock
W–B
L–R
L–B
L–Y
L–W
LG
G–R
L
Y
BO

* 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	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		

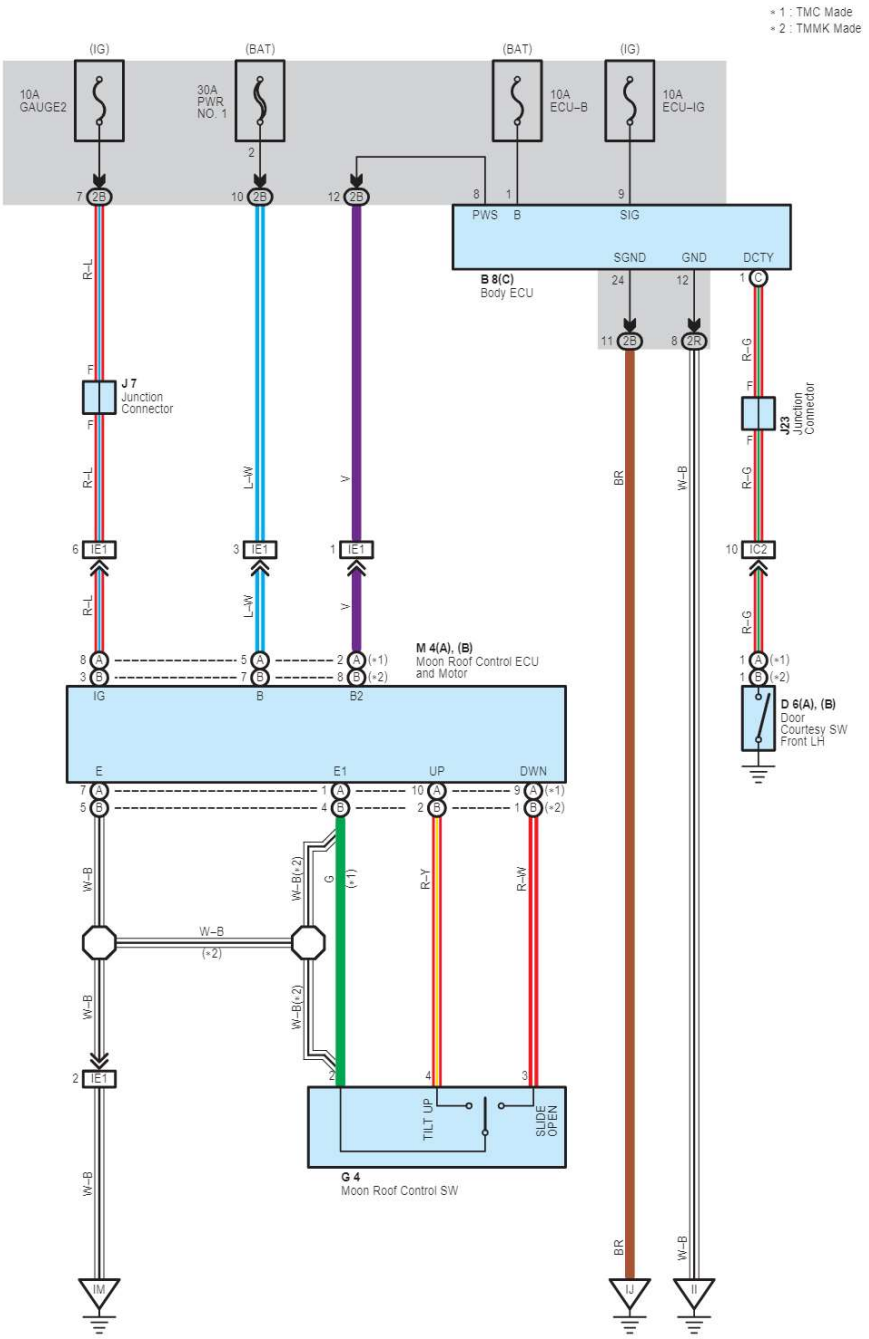
: **Connector Joining Wire Harness and Wire Harness**

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


*1 : TMC Made
*2 : TMMK Made
(IG)
(BAT)
(BAT)
(IG)
10A GAUGE2
30A PWR NO. 1
10A ECU–B
10A ECU–IG
PWS
B
SIG
SGND
GND
DCTY
B 8(C)
Body ECU
J 7
Junction Connector
J23
Junction Connector
M 4(A), (B)
Moon Roof Control ECU and Motor
IG
B
B2
E
E1
UP
DWN
D 6(A), (B)
Door Courtesy SW Front LH
G 4
Moon Roof Control SW
TILT UP
SLIDE OPEN
R–L
L–W
V
R–G
BR
W–B
R–Y
R–W
G
W–B(*2)
W–B
(*1)
(*2)

○ : **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**

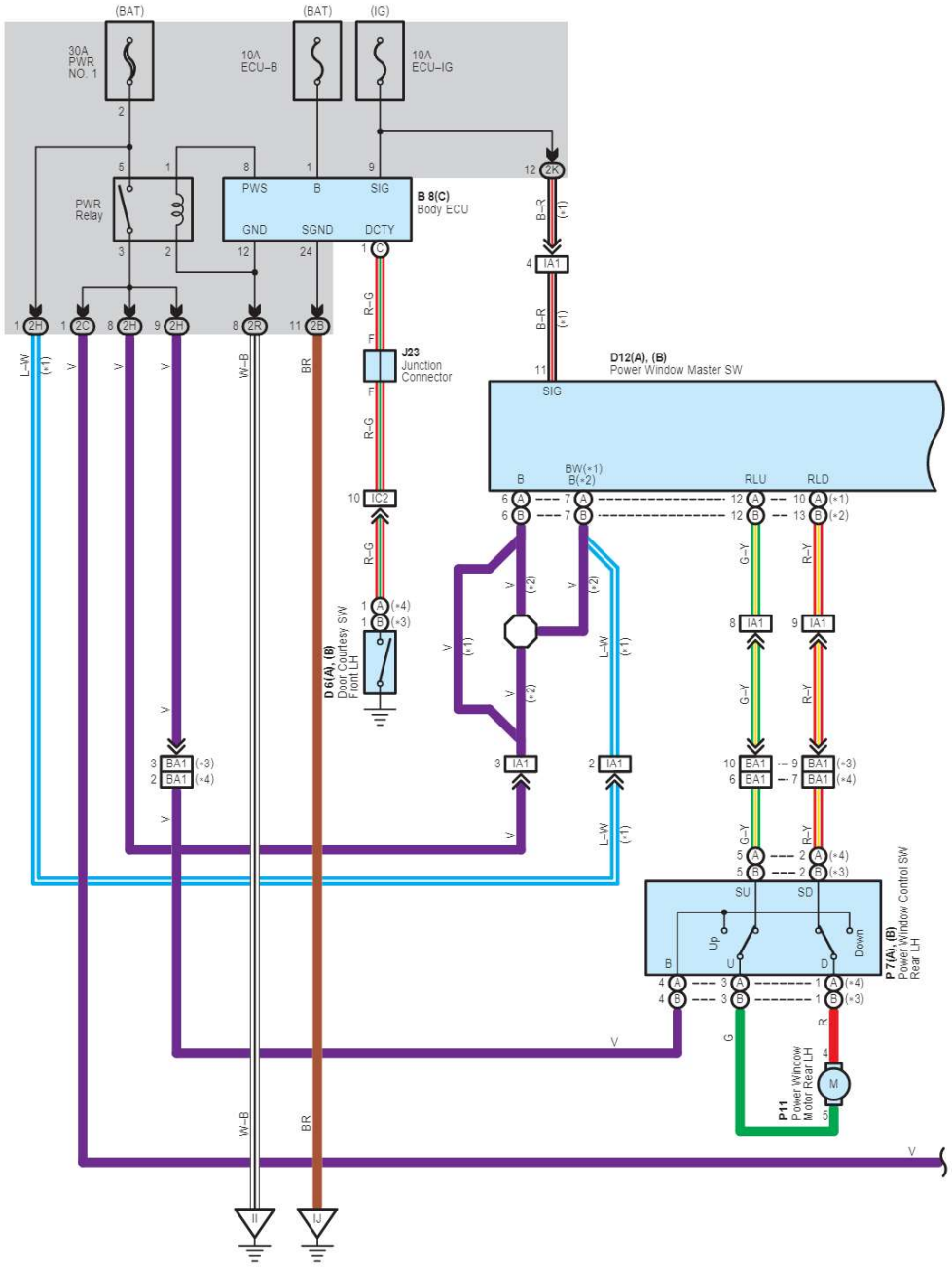
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R	29	

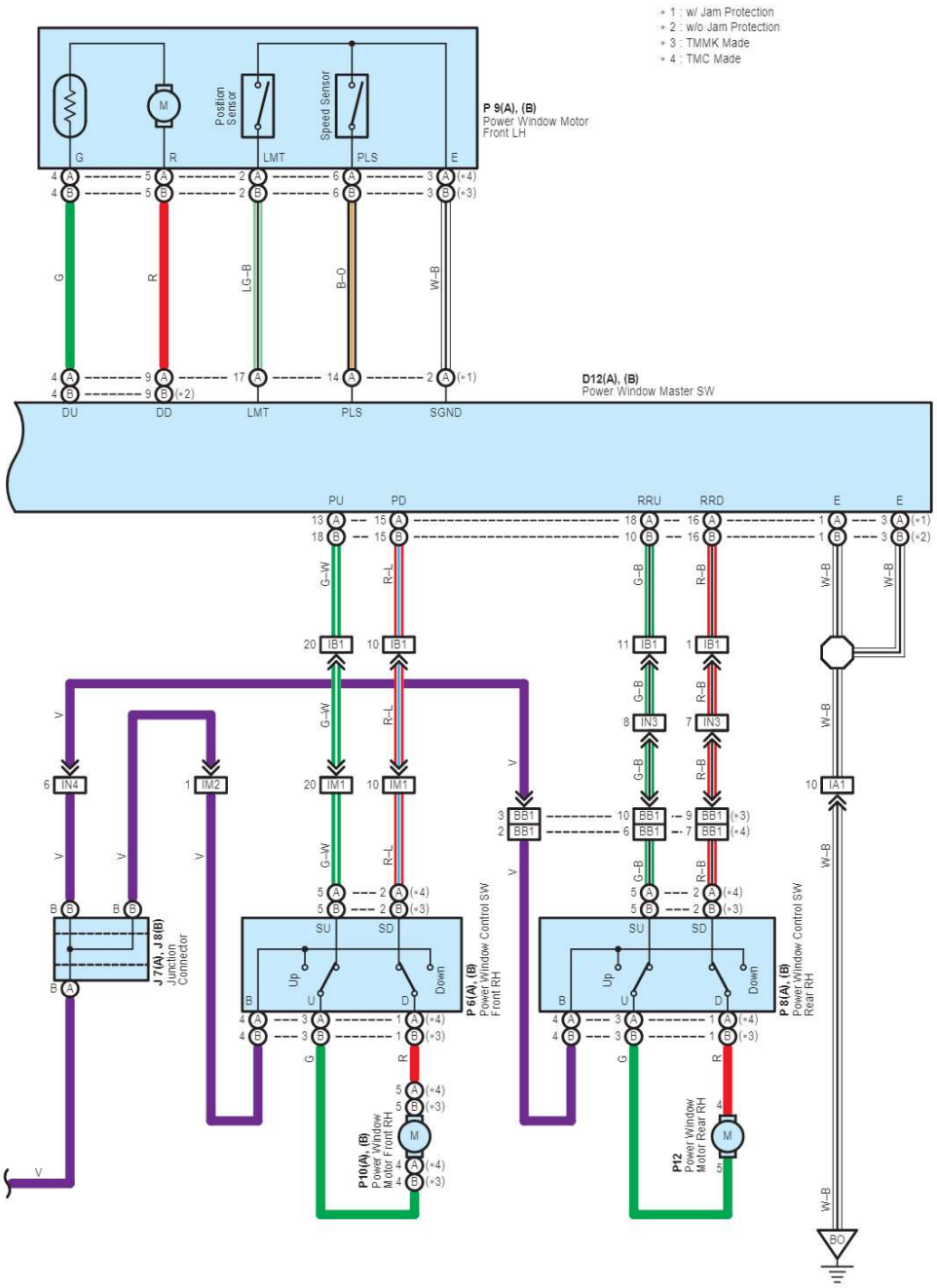
: **Connector Joining Wire Harness and Wire Harness**

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


(BAT)
(BAT)
(IG)
30A PWR NO. 1
10A ECU-B
10A ECU-IG
PWR Relay
PWS
B
SIG
GND
SGND
DCTY
B 8(C)
Body ECU
J23
Junction Connector
D12(A), (B)
Power Window Master SW
SIG
B
BW(*1)
B(*2)
RLU
RLD
D 6(A), (B)
Door Courtesy SW Front LH
P 7(A), (B)
Power Window Control SW Rear LH
SU
SD
Up
Down
P11
Power Window Motor Rear LH
L-W
W-B
BR
R-G
B-R
G-Y
R-Y
V
G
R


* 1 : w/ Jam Protection
* 2 : w/o Jam Protection
* 3 : TMMK Made
* 4 : TMC Made
P 9(A), (B)
Power Window Motor
Front LH
Position Sensor
Speed Sensor
G
R
LMT
PLS
E
G
R
LG–B
B–O
W–B
DU
DD
LMT
PLS
SGND
D12(A), (B)
Power Window Master SW
PU
PD
RRU
RRD
E
E
G–W
R–L
G–B
R–B
W–B
IB1
IN3
IA1
IN4
IM2
IM1
BB1
J 7(A), J 8(B)
Junction Connector
P 6(A), (B)
Power Window Control SW
Front RH
P 8(A), (B)
Power Window Control SW
Rear RH
SU
SD
Up
Down
P10(A), (B)
Power Window
Motor Front RH
P12
Power Window
Motor Rear RH
BO

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 detection 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**

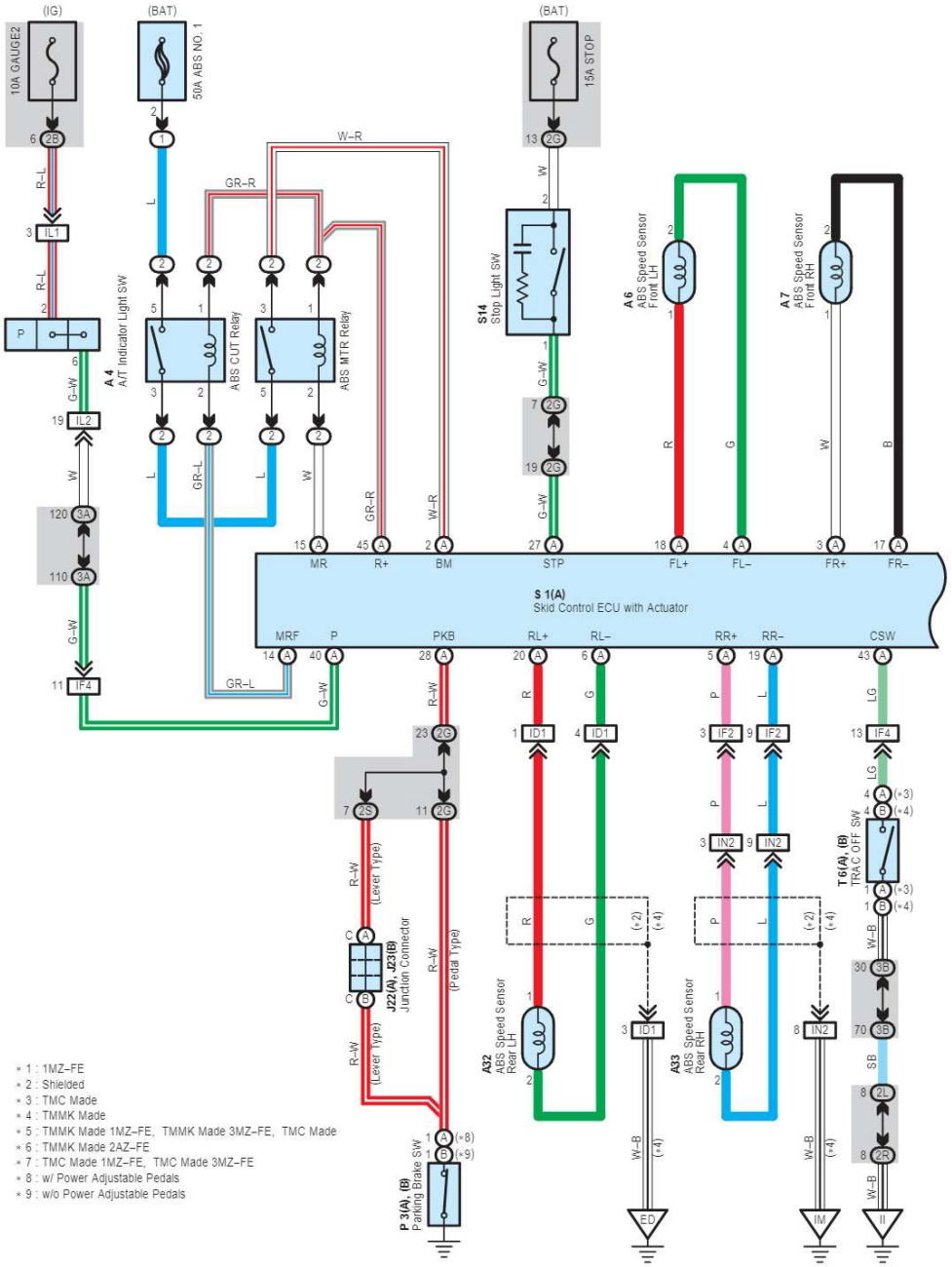
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2C		
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2R	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

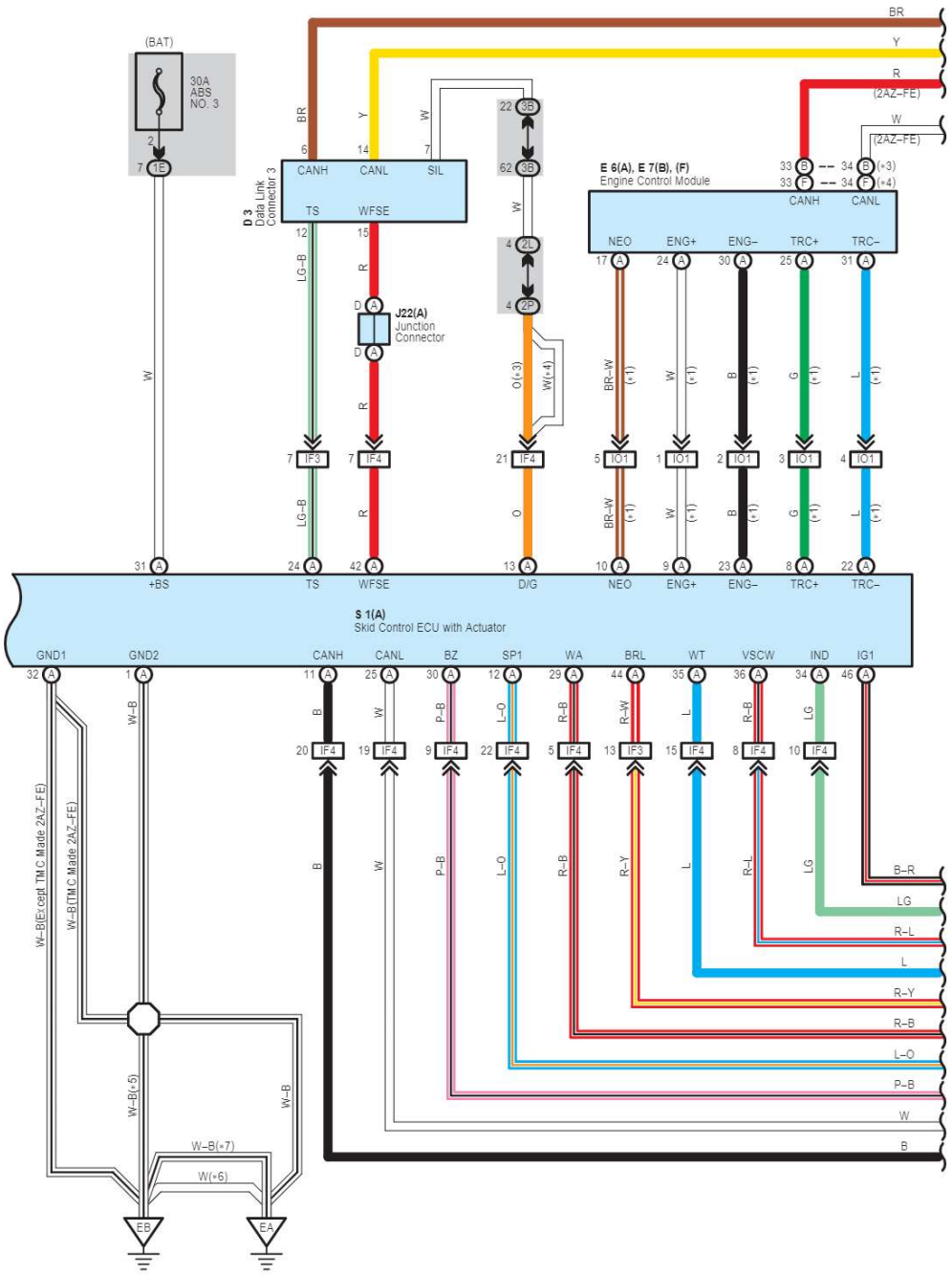
: **Connector Joining Wire Harness and Wire Harness**

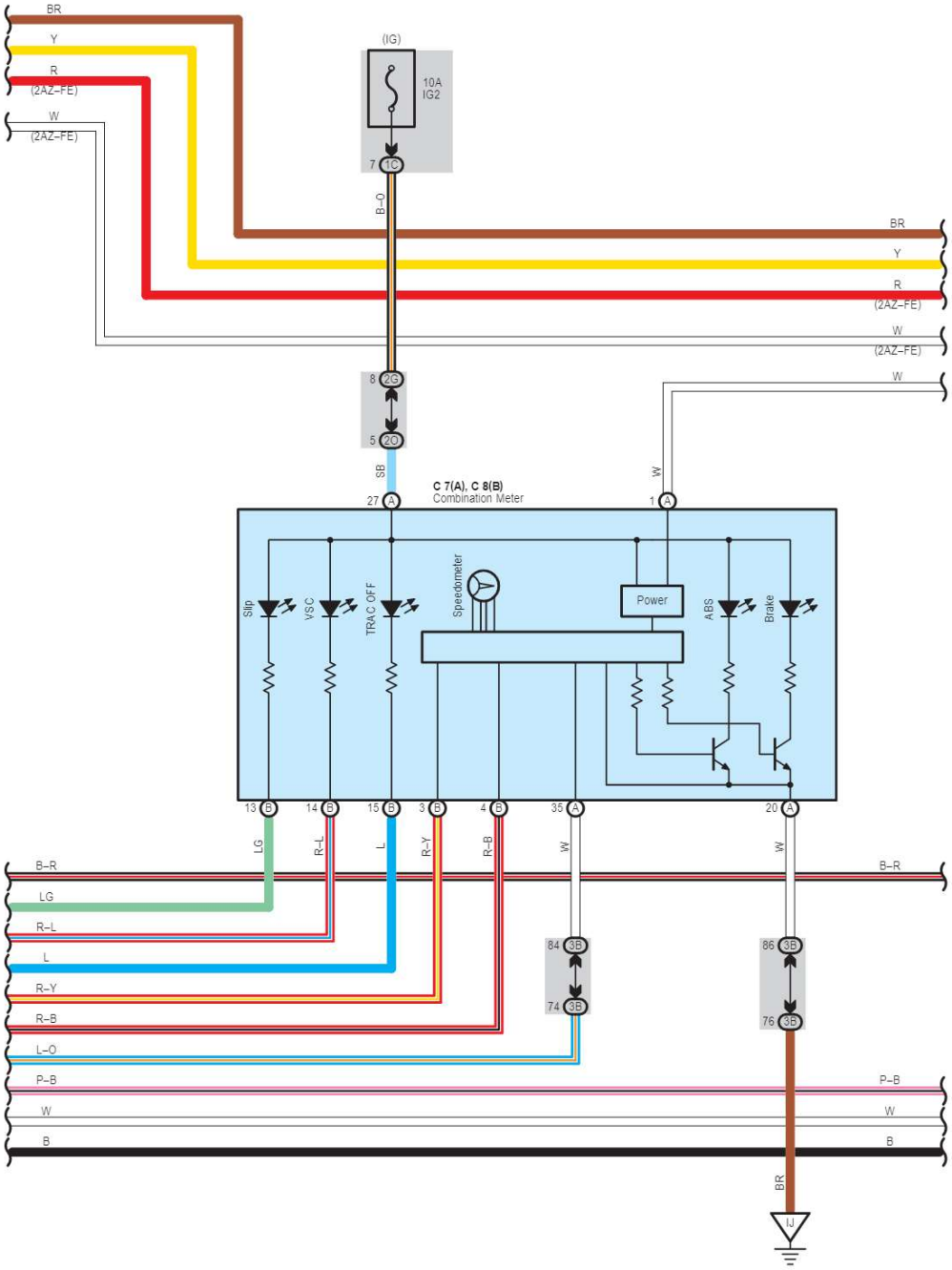
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	50	Front Door LH Wire and Floor Wire (Left Kick Panel)
IB1	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IM1	51	Front Door RH Wire and Instrument 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)

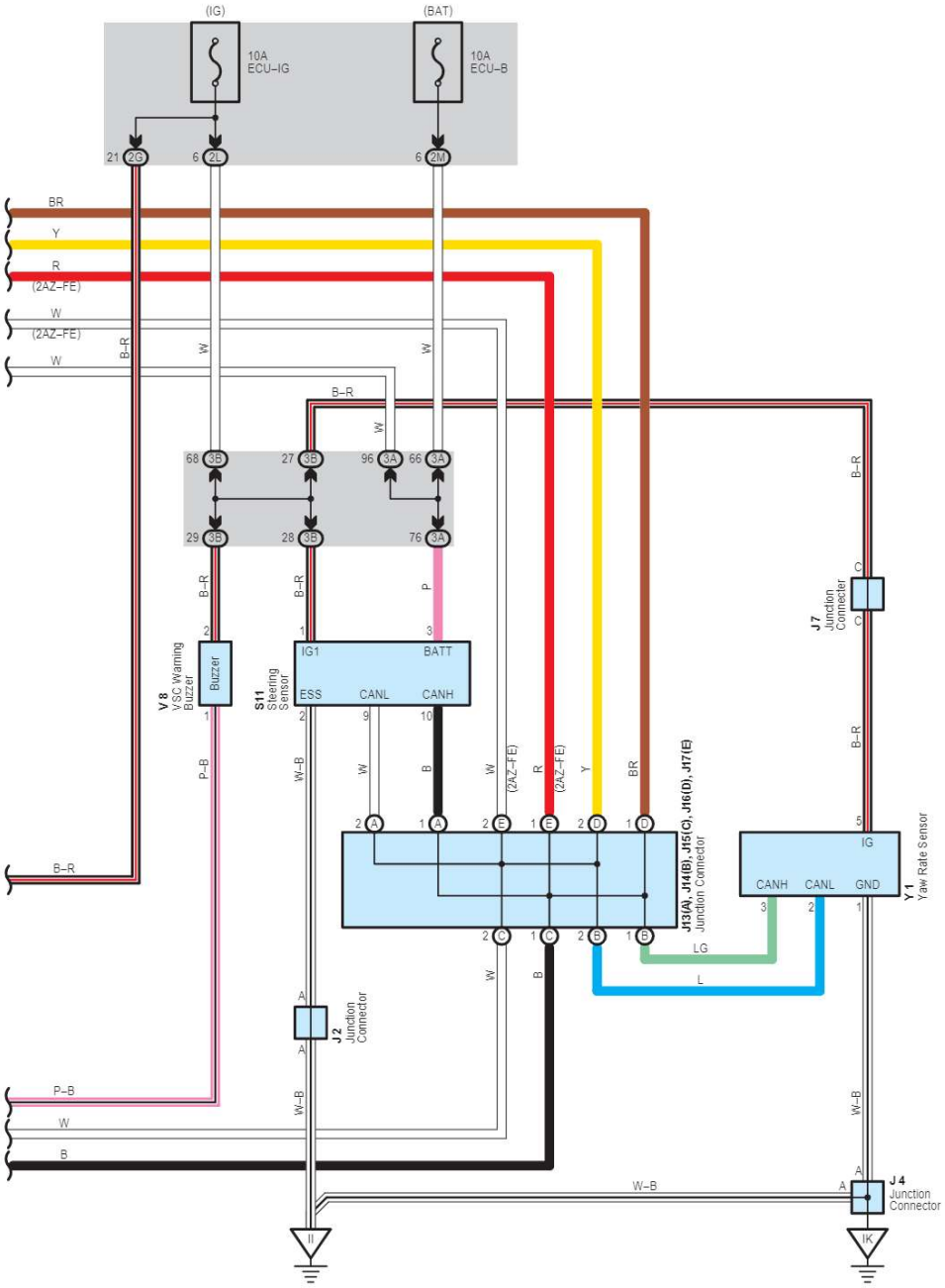
▽ : **Ground Points**

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


(IG)
(BAT)
(BAT)
10A GAUGE2
50A ABS NO. 1
15A STOP
W–R
GR–R
A 4
A/T Indicator Light SW
ABS CUT Relay
ABS MTR Relay
S14
Stop Light SW
A 6
ABS Speed Sensor Front LH
A 7
ABS Speed Sensor Front RH
S 1(A)
Skid Control ECU with Actuator
MR
R+
BM
STP
FL+
FL–
FR+
FR–
MRF
P
PKB
RL+
RL–
RR+
RR–
CSW
GR–L
J22(A), J23(B)
Junction Connector
(Lever Type)
(Pedal Type)
P 3(A), (B)
Parking Brake SW
A32
ABS Speed Sensor Rear LH
A33
ABS Speed Sensor Rear RH
T6(A), (B)
TRAC OFF SW
ED
IM
IT
* 1 : 1MZ–FE
* 2 : Shielded
* 3 : TMC Made
* 4 : TMMK Made
* 5 : TMMK Made 1MZ–FE, TMMK Made 3MZ–FE, TMC Made
* 6 : TMMK Made 2AZ–FE
* 7 : TMC Made 1MZ–FE, TMC Made 3MZ–FE
* 8 : w/ Power Adjustable Pedals
* 9 : w/o Power Adjustable Pedals


(BAT)
30A
ABS
NO. 3
2
7 1E
BR
Y
R
(2AZ-FE)
W
(2AZ-FE)
D 3
Data Link
Connector 3
CANH
CANL
SIL
TS
WFSE
6
14
7
12
15
22 3B
62 3B
4 2L
4 2P
W
LG-B
R
O(*3)
W(*4)
J22(A)
Junction
Connector
E 6(A), E 7(B), (F)
Engine Control Module
33 B -- 34 B (*3)
33 F -- 34 F (*4)
CANH
CANL
NEO
ENG+
ENG-
TRC+
TRC-
17
24
30
25
31
BR-W (*1)
W (*1)
B (*1)
G (*1)
L (*1)
7 IF3
7 IF4
21 IF4
5 IO1
1 IO1
2 IO1
3 IO1
4 IO1
LG-B
R
O
BR-W (*1)
W (*1)
B (*1)
G (*1)
L (*1)
31
24
42
13
10
9
23
8
22
+BS
TS
WFSE
D/G
NEO
ENG+
ENG-
TRC+
TRC-
S 1(A)
Skid Control ECU with Actuator
GND1
GND2
CANH
CANL
BZ
SP1
WA
BRL
WT
VSCW
IND
IG1
32
1
11
25
30
12
29
44
35
36
34
46
B
W
P-B
L-O
R-B
R-W
L
R-B
LG
20 IF4
19 IF4
9 IF4
22 IF4
5 IF4
13 IF3
15 IF4
8 IF4
10 IF4
W-B(Except TMC Made 2AZ-FE)
W-B(TMC Made 2AZ-FE)
W-B
B
W
P-B
L-O
R-B
R-Y
L
R-L
LG
B-R
LG
R-L
L
R-Y
R-B
L-O
P-B
W
B
W-B(*5)
W-B
W-B(*7)
W(*6)
E8
E4


BR
Y
R
(2AZ-FE)
W
(2AZ-FE)
(IG)
10A
IG2
7 1C
B-O
BR
Y
R
(2AZ-FE)
W
(2AZ-FE)
8 2G
5 2O
W
SB
C 7(A), C 8(B)
Combination Meter
27 A
1 A
W
Slip
VSC
TRAC OFF
Speedometer
Power
ABS
Brake
13 B
14 B
15 B
3 B
4 B
35 A
20 A
LG
R-L
L
R-Y
R-B
W
W
B-R
B-R
LG
R-L
L
R-Y
R-B
L-O
84 3B
74 3B
86 3B
76 3B
P-B
P-B
W
W
B
B
BR


(IG)
(BAT)
10A
ECU–IG
10A
ECU–B
21 2G
6 2L
6 2M
BR
Y
R
(2AZ–FE)
W
(2AZ–FE)
W
B–R
W
W
B–R
W
68 3B
27 3B
96 3A
66 3A
29 3B
28 3B
76 3A
B–R
B–R
P
B–R
2
1
3
V8
VSC Warning
Buzzer
Buzzer
S11
Steering
Sensor
IG1
BATT
ESS
CANL
CANH
2
9
10
P–B
W–B
W
B
W
(2AZ–FE)
R
(2AZ–FE)
Y
BR
J13(A), J14(B), J15(C), J16(D), J17(E)
Junction Connector
2 A
1 A
2 E
1 E
2 D
1 D
2 C
1 C
2 B
1 B
LG
L
J7
Junction
Connector
C
C
B–R
B–R
5
IG
CANH
CANL
GND
3
2
1
Y1
Yaw Rate Sensor
A
A
J2
Junction
Connector
P–B
W
B
W–B
W–B
W–B
A
A
J4
Junction
Connector
II
IK

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 crates 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 emiting 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)	E7 F	42	P3 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	T6 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

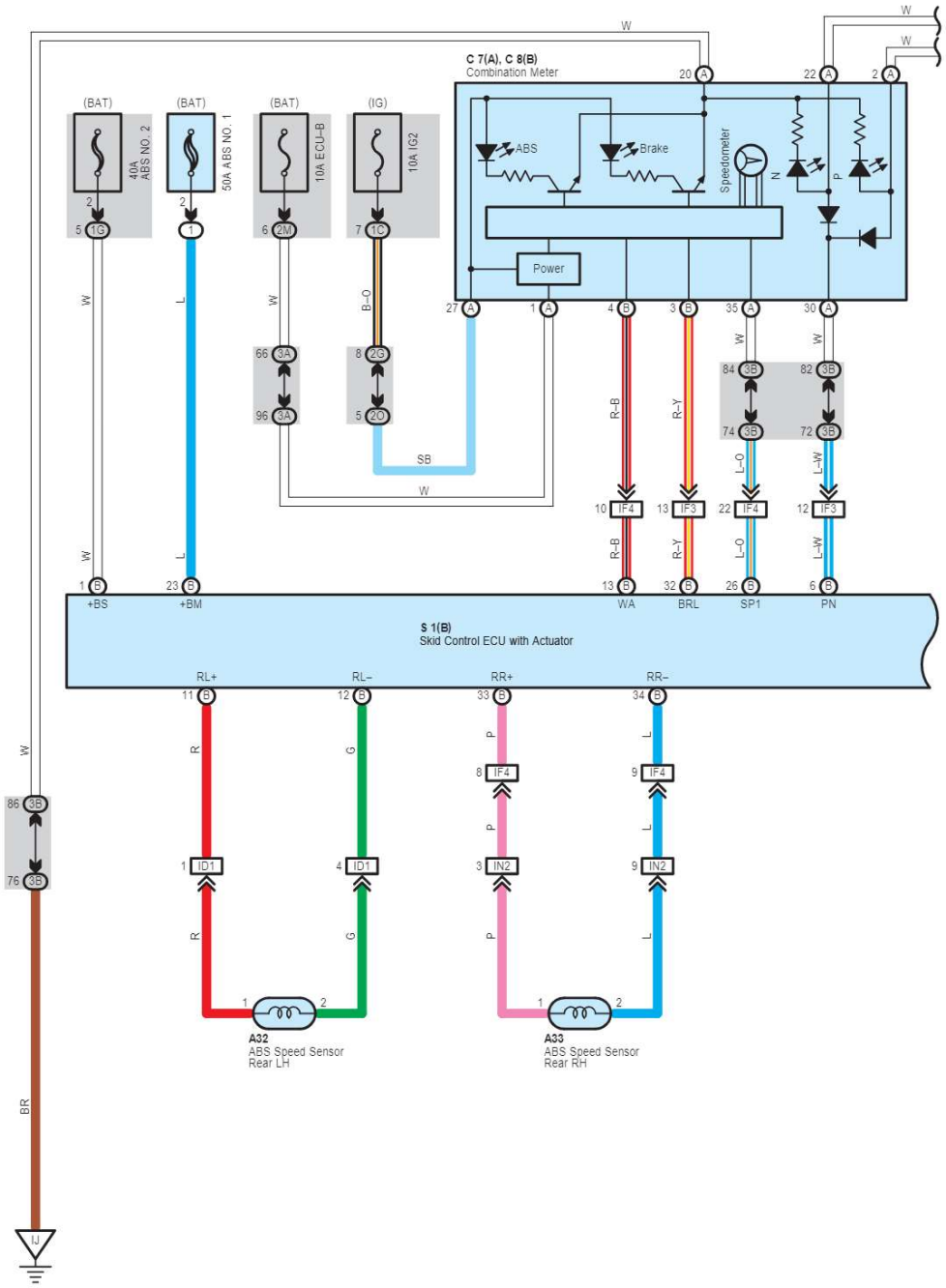
: **Connector Joining Wire Harness and Wire Harness**

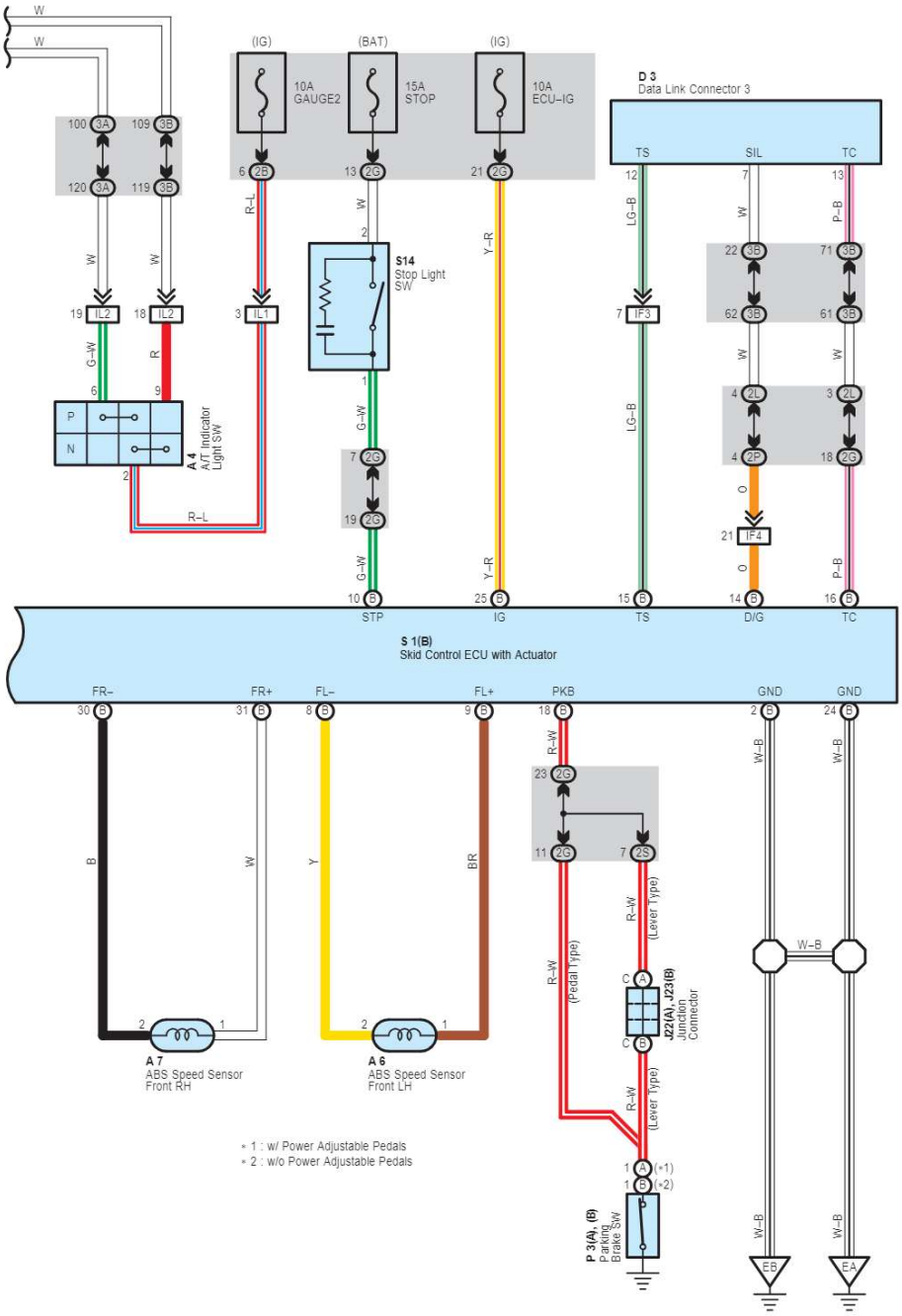
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	50	Engine Room Main Wire and Floor Wire (Left Side of Driver Side J/B)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF4		
IL1	51	Engine Wire and Instrument Panel Wire (Behind 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


C 7(A), C 8(B)
Combination Meter
(BAT)
40A ABS NO. 2
(BAT)
50A ABS NO. 1
(BAT)
10A ECU-B
(IG)
10A IG2
ABS
Brake
Speedometer
Power
S 1(B)
Skid Control ECU with Actuator
+BS
+BM
WA
BRL
SP1
PN
RL+
RL−
RR+
RR−
A32
ABS Speed Sensor
Rear LH
A33
ABS Speed Sensor
Rear RH


W
W
(IG)
(BAT)
(IG)
10A
GAUGE2
15A
STOP
10A
ECU–IG
D 3
Data Link Connector 3
TS
SIL
TC
S14
Stop Light
SW
A 4
A/T Indicator
Light SW
P
N
R–L
G–W
R
W
LG–B
Y–R
P–B
O
S 1(B)
Skid Control ECU with Actuator
FR–
FR+
FL–
FL+
PKB
GND
GND
B
W
Y
BR
R–W
W–B
(Pedal Type)
(Lever Type)
J22(A), J23(B)
Junction
Connector
A 7
ABS Speed Sensor
Front RH
A 6
ABS Speed Sensor
Front LH
P 3(A), (B)
Parking
Brake Sw
EB
EA
* 1 : w/ Power Adjustable Pedals
* 2 : w/o Power Adjustable Pedals

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	P3 B	43
	40 (*2)	C8 B	42	S1 B	39 (*1)
A7	38 (*1)	D3	42		41 (*2)
	40 (*2)	J22 A	43	S14	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)

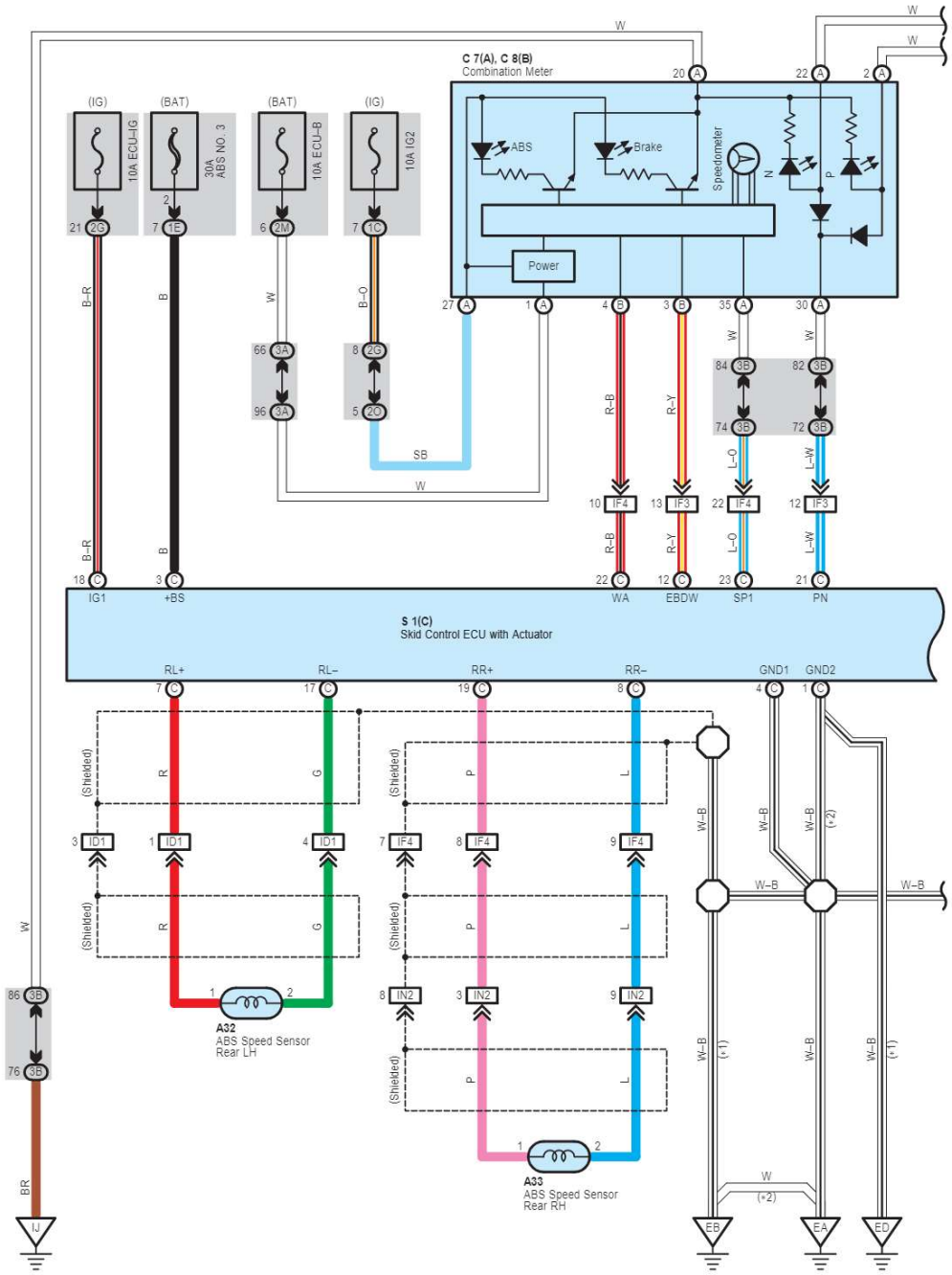
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

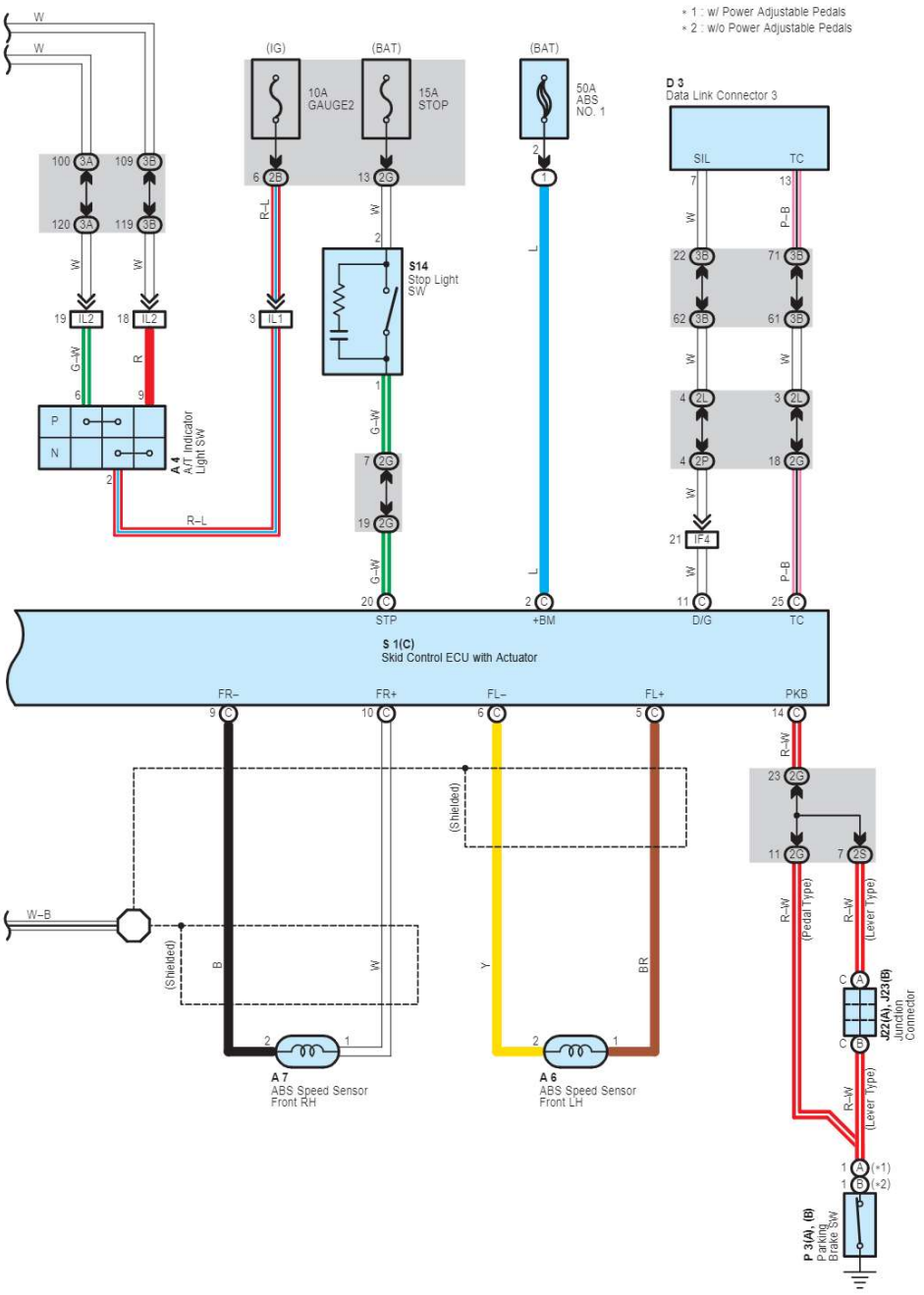
▽ : **Ground Points**

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

ABS (TMMK Made)




* 1 : w/ Power Adjustable Pedals
* 2 : w/o Power Adjustable Pedals
(IG)
(BAT)
(BAT)
10A GAUGE2
15A STOP
50A ABS NO. 1
D 3
Data Link Connector 3
SIL
TC
S14
Stop Light SW
A 4
A/T Indicator Light SW
S 1(C)
Skid Control ECU with Actuator
STP
+BM
D/G
TC
FR−
FR+
FL−
FL+
PKB
(Shielded)
(Pedal Type)
(Lever Type)
J22(A), J23(B)
Junction Connector
A 7
ABS Speed Sensor Front RH
A 6
ABS Speed Sensor Front LH
P 3(A), (B)
Parking Brake Sw

ABS (TMMK 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 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	P3 B	43
	40 (*2)	C8 B	42	S1 C	39 (*1)
A7	38 (*1)	D3	42	S1 C	41 (*2)
	40 (*2)	J22 A	43	S14	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

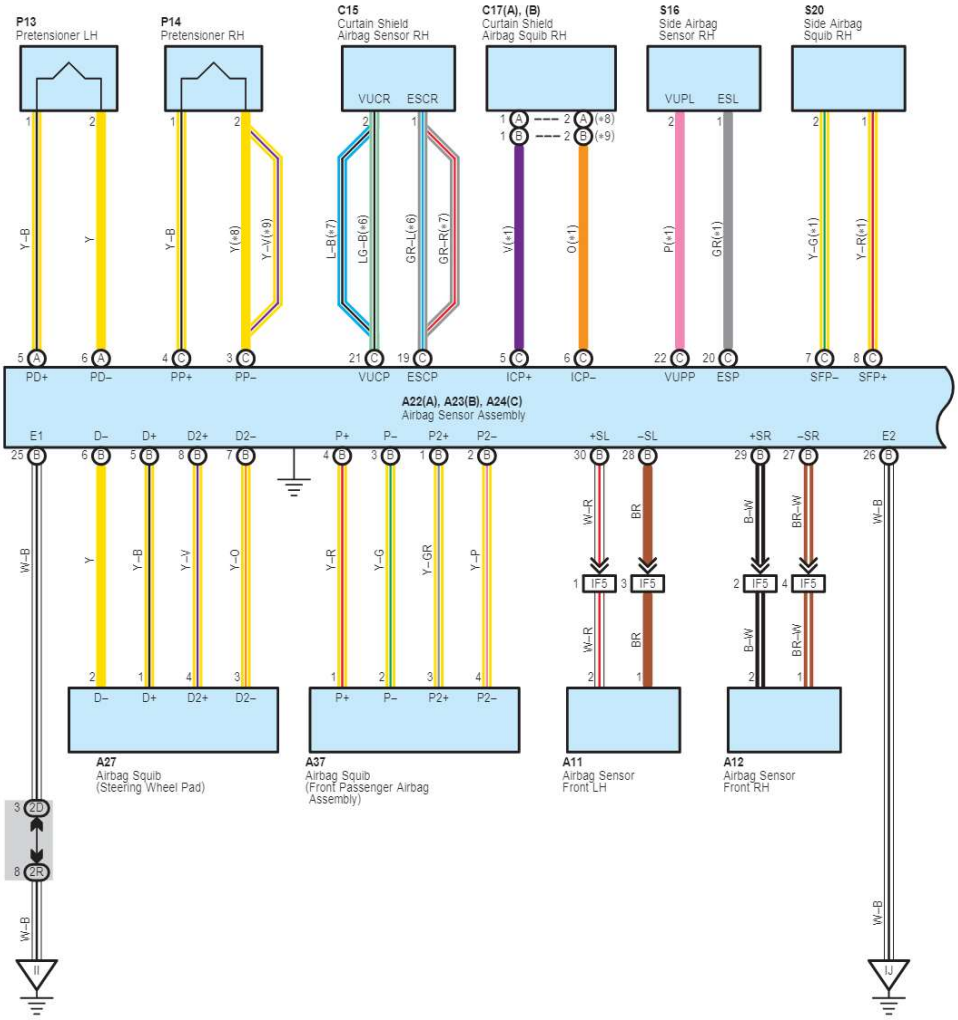
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

Memo

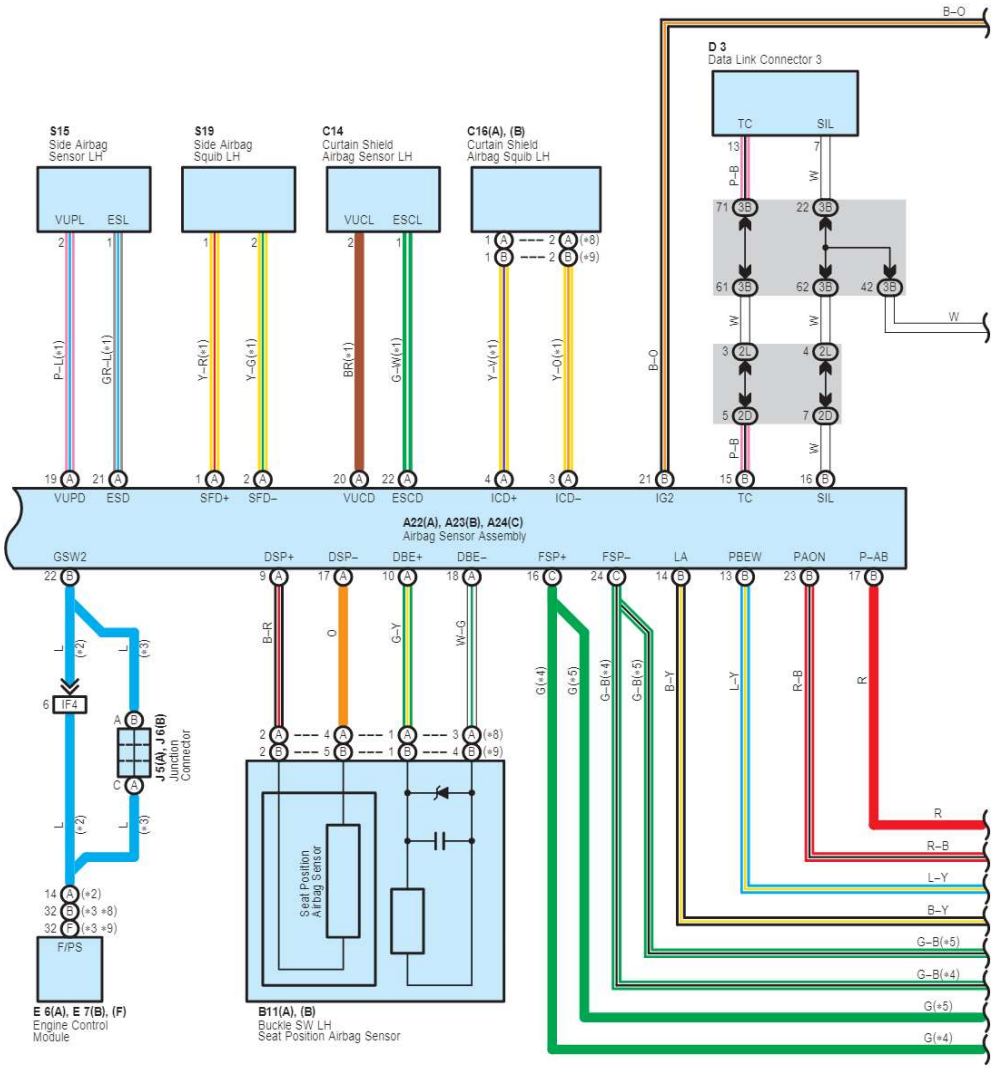
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

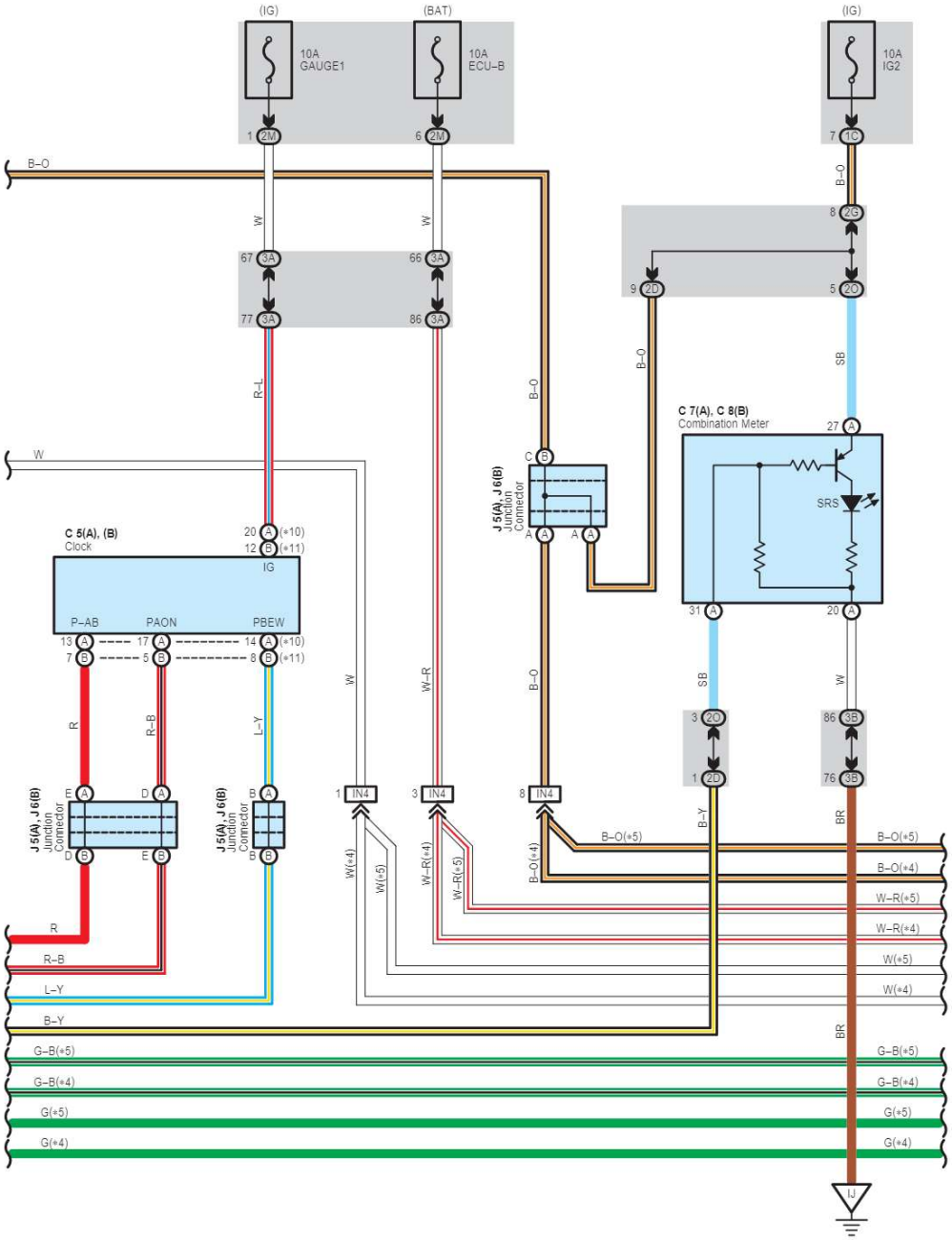
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is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

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

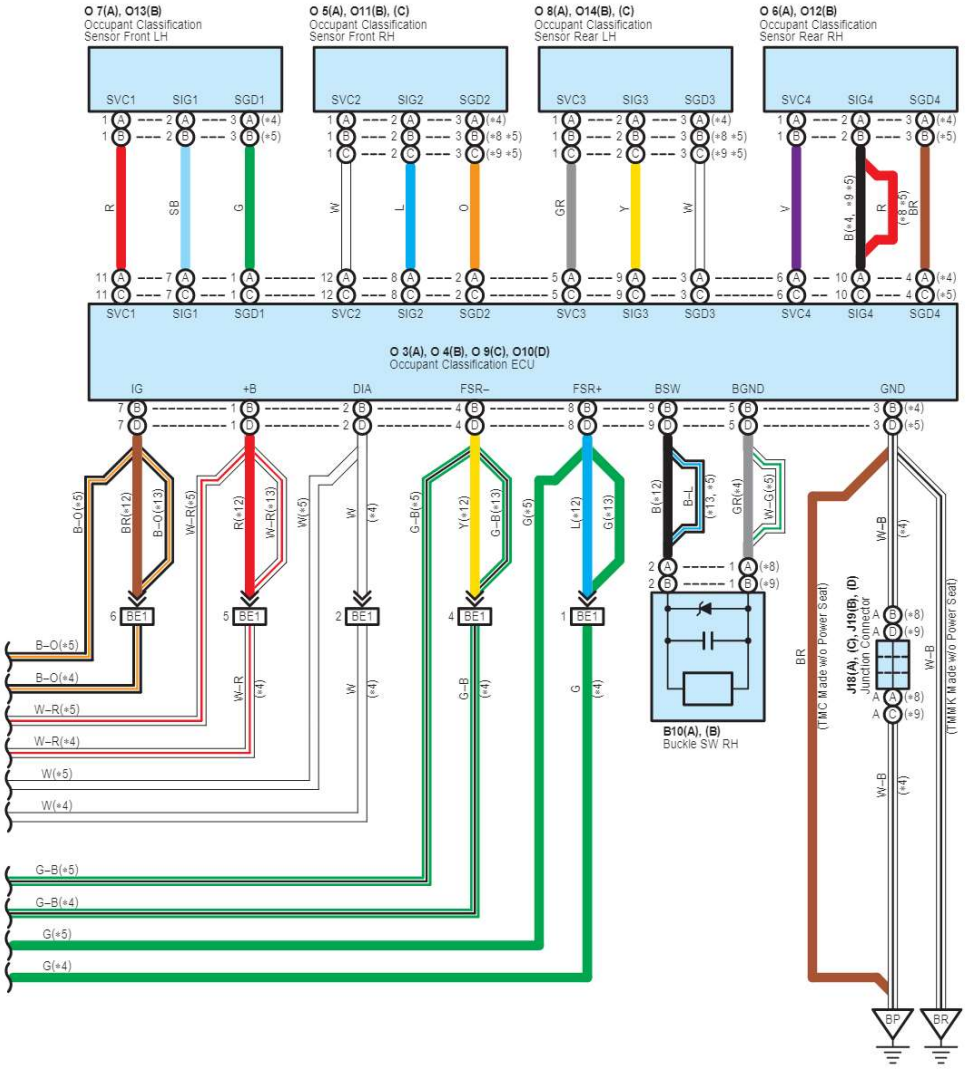

P13
Pretensioner LH
P14
Pretensioner RH
C15
Curtain Shield
Airbag Sensor RH
C17(A), (B)
Curtain Shield
Airbag Squib RH
S16
Side Airbag
Sensor RH
S20
Side Airbag
Squib RH
VUCR
ESCR
VUPL
ESL
Y–B
Y
Y–B
Y(*8)
Y–V(*9)
L–B(*7)
LG–B(*6)
GR–L(*6)
GR–R(*7)
V(*1)
O(*1)
P(*1)
GR(*1)
Y–G(*1)
Y–R(*1)
PD+
PD–
PP+
PP–
VUCP
ESCP
ICP+
ICP–
VUPP
ESP
SFP–
SFP+
A22(A), A23(B), A24(C)
Airbag Sensor Assembly
E1
D–
D+
D2+
D2–
P+
P–
P2+
P2–
+SL
–SL
+SR
–SR
E2
W–B
Y
Y–B
Y–V
Y–O
Y–R
Y–G
Y–GR
Y–P
W–R
BR
B–W
BR–W
IF5
A27
Airbag Squib
(Steering Wheel Pad)
A37
Airbag Squib
(Front Passenger Airbag
Assembly)
A11
Airbag Sensor
Front LH
A12
Airbag Sensor
Front RH
2D
2R

* 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




(IG)
10A
GAUGE1
(BAT)
10A
ECU–B
(IG)
10A
IG2
B–O
W
R–L
B–O
SB
W
W–R
L–Y
R
R–B
B–Y
BR
G–B(*5)
G–B(*4)
G(*5)
G(*4)
W(*5)
W(*4)
W–R(*5)
W–R(*4)
B–O(*5)
B–O(*4)
C 5(A), (B)
Clock
IG
P–AB
PAON
PBEW
C 7(A), C 8(B)
Combination Meter
SRS
J5(A), J6(B)
Junction
Connector
IN4

∗ 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		

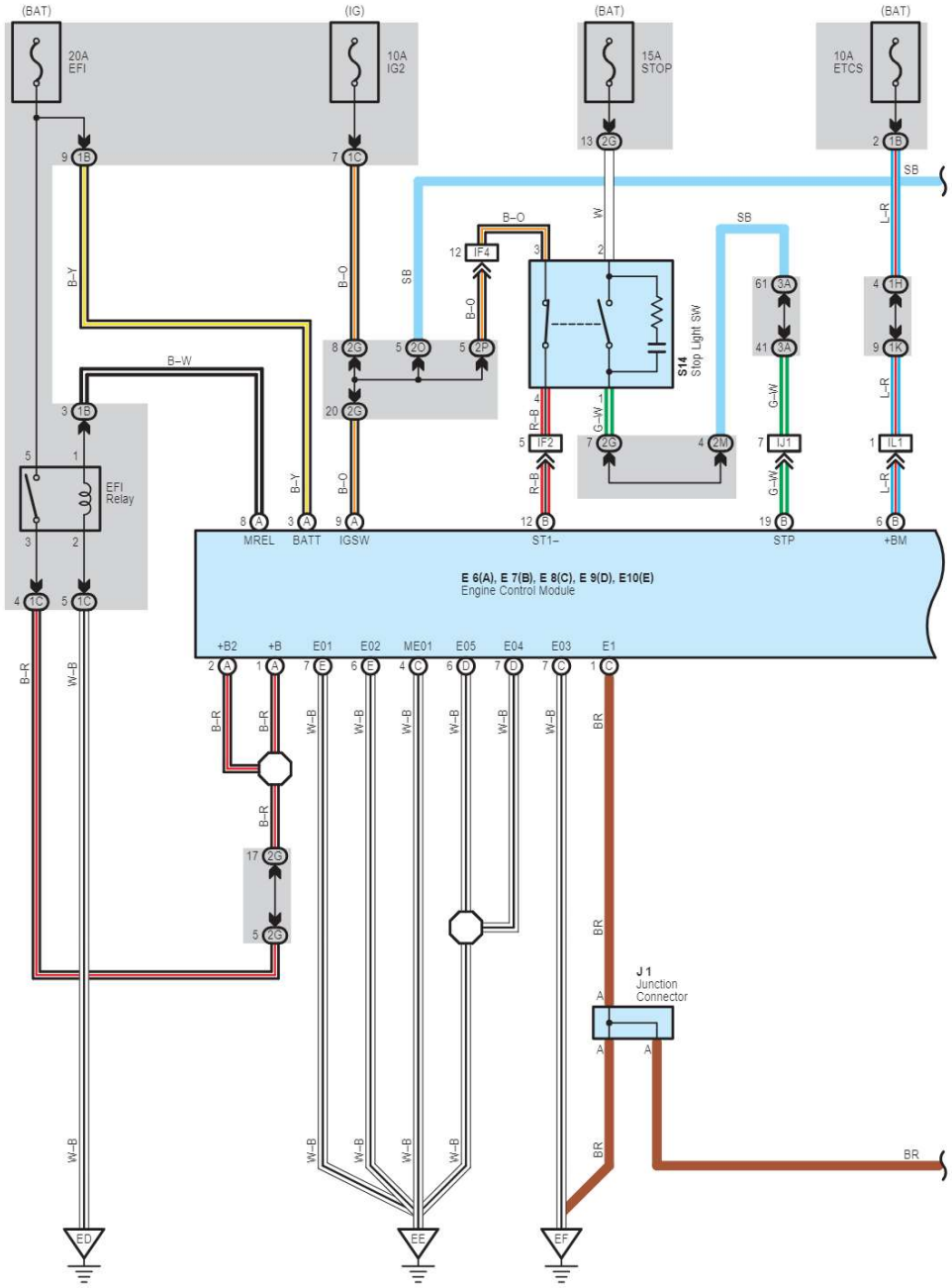
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

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

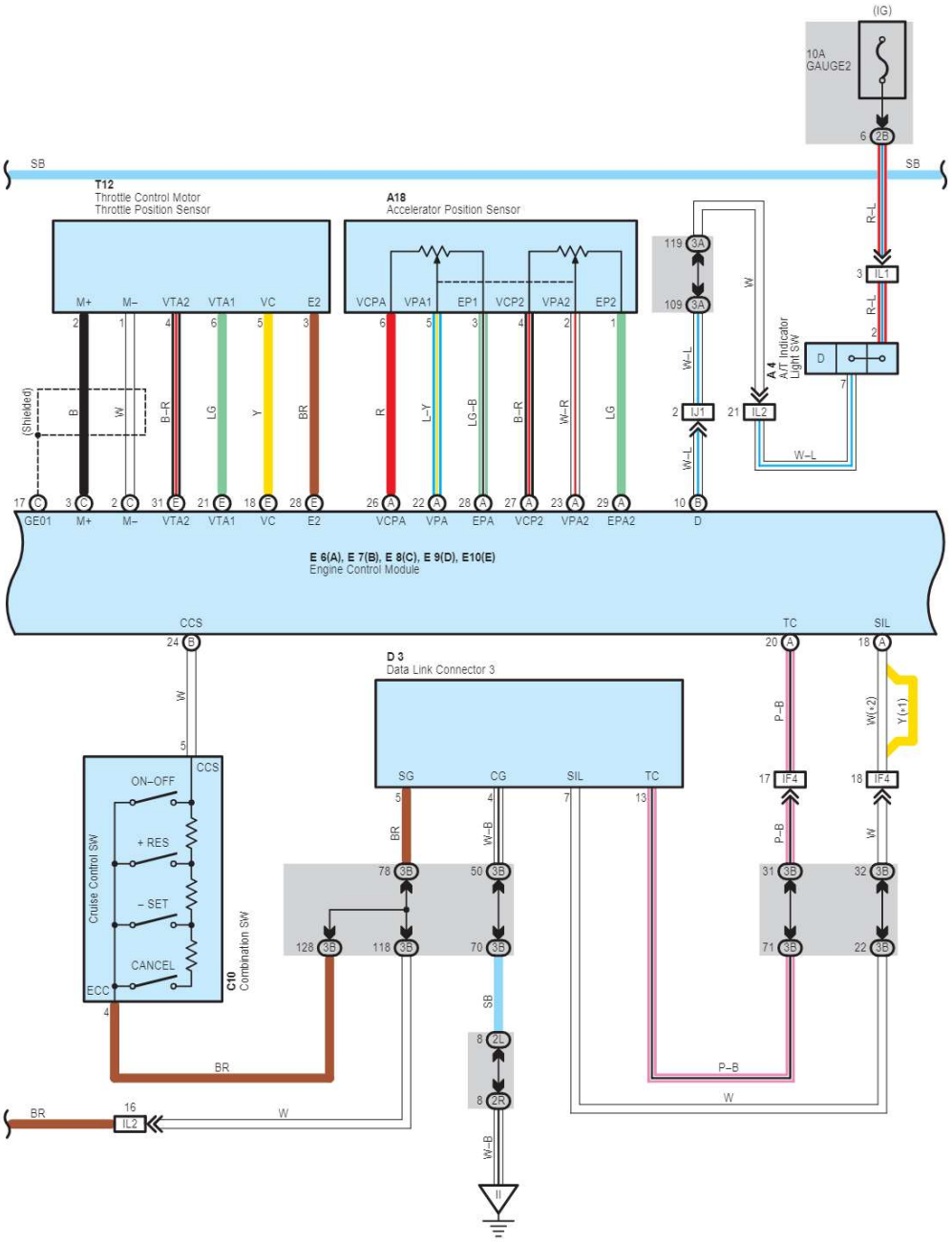
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF5		
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
BE1	53	Floor No.2 Wire and Front Seat RH Wire (Under the Front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

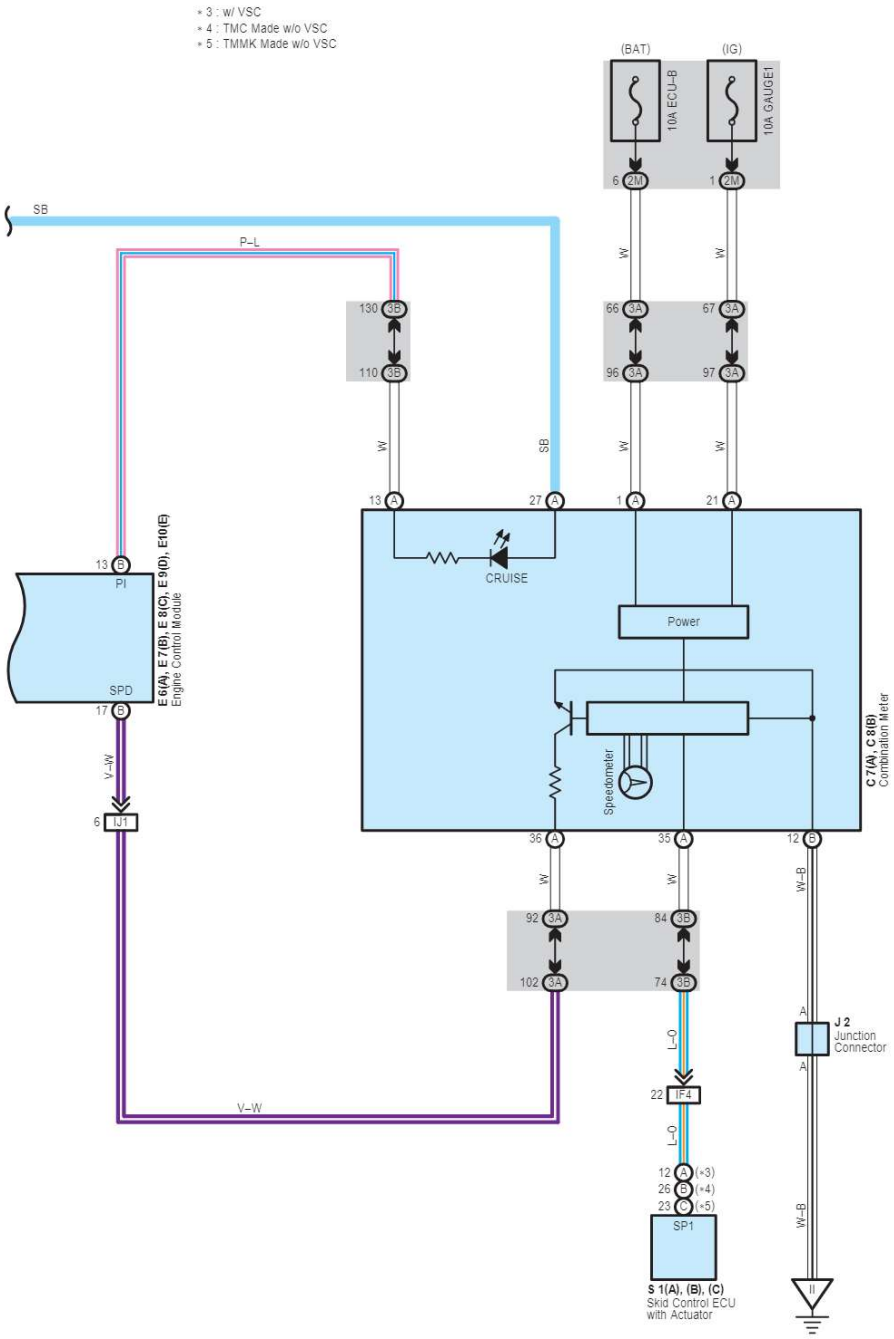
: **Ground Points**

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


(BAT)
20A EFI
(IG)
10A IG2
(BAT)
15A STOP
(BAT)
10A ETCS
EFI Relay
S14 Stop Light SW
J1 Junction Connector
E 6(A), E 7(B), E 8(C), E 9(D), E10(E) Engine Control Module
MREL
BATT
IGSW
ST1–
STP
+BM
+B2
+B
E01
E02
ME01
E05
E04
E03
E1
E0
EE
EF

* 1 : TMC Made
* 2 : TMMK Made




* 3 : w/ VSC
* 4 : TMC Made w/o VSC
* 5 : TMMK Made w/o VSC
(BAT)
(IG)
10A ECU-B
10A GAUGE1
6 2M
1 2M
SB
P–L
W
130 3B
110 3B
66 3A
67 3A
96 3A
97 3A
13 A
27 A
1 A
21 A
CRUISE
Power
Speedometer
C 7(A), C 8(B)
Combination Meter
13 B
PI
SPD
17 B
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
V–W
6 IJ1
36 A
35 A
12 B
W–B
92 3A
84 3B
102 3A
74 3B
J 2
Junction
Connector
22 1F4
12 A (*3)
26 B (*4)
23 C (*5)
SP1
S 1(A), (B), (C)
Skid Control ECU
with Actuator

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

: **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		

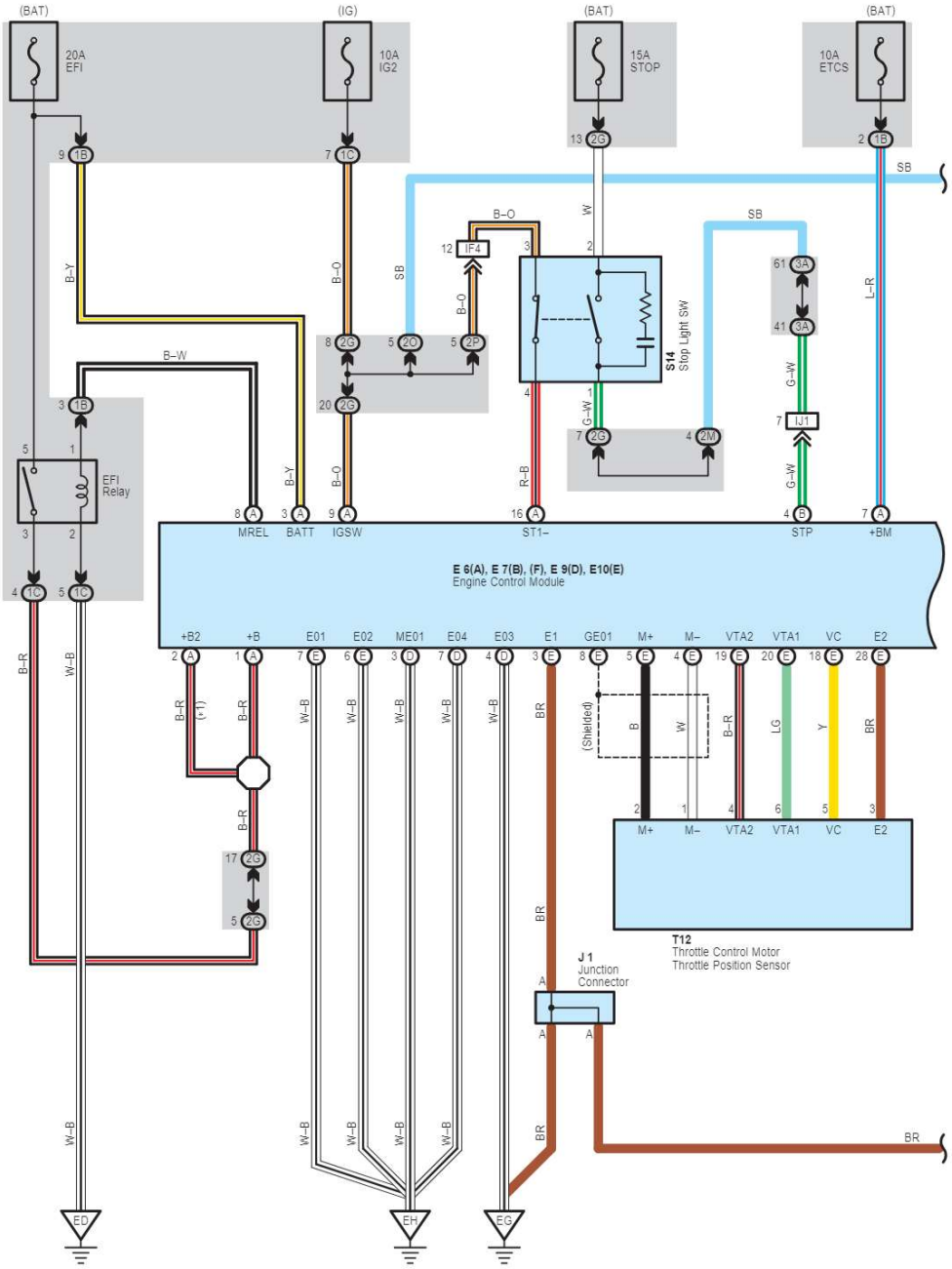
: **Connector Joining Wire Harness and Wire Harness**

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		

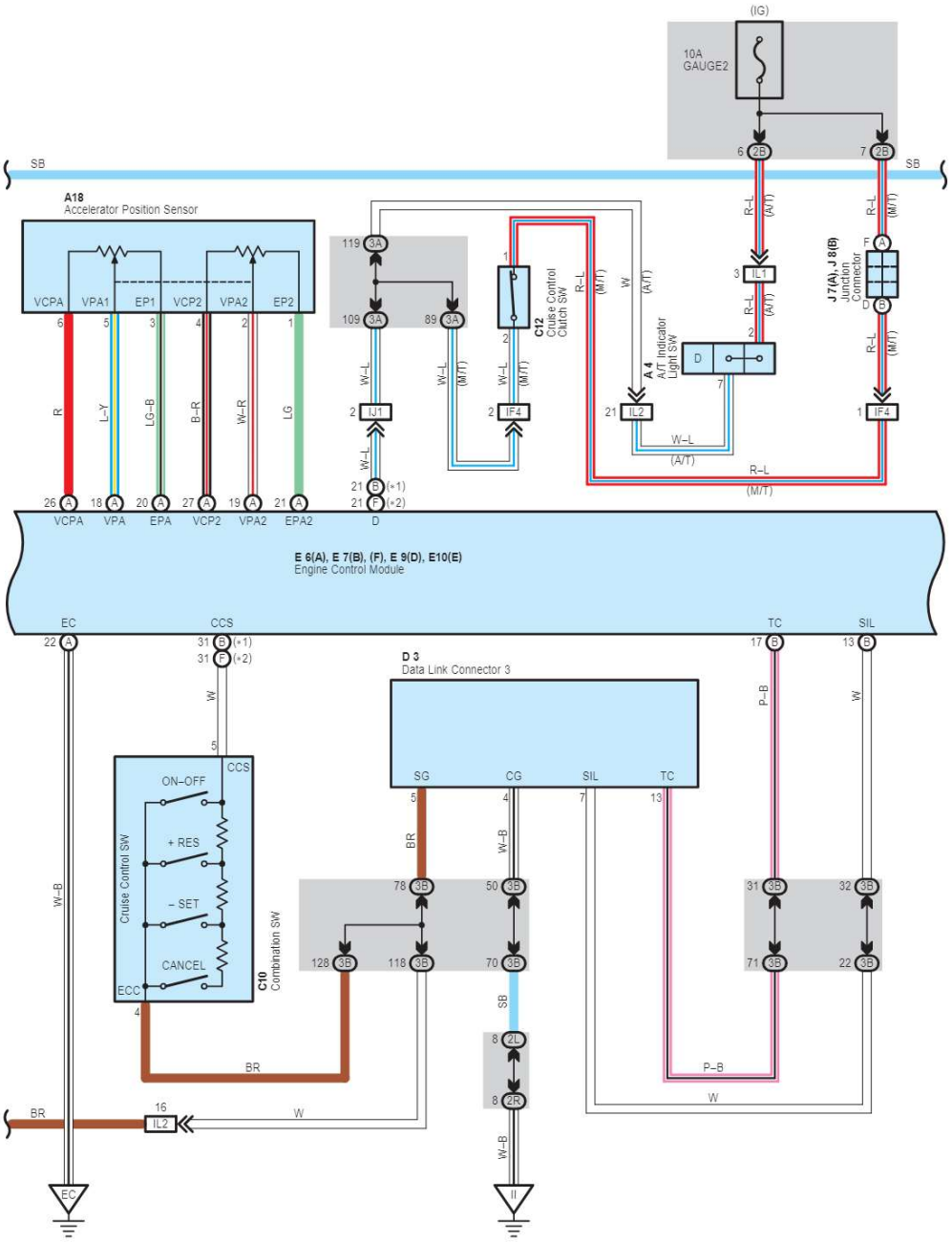
: **Ground Points**

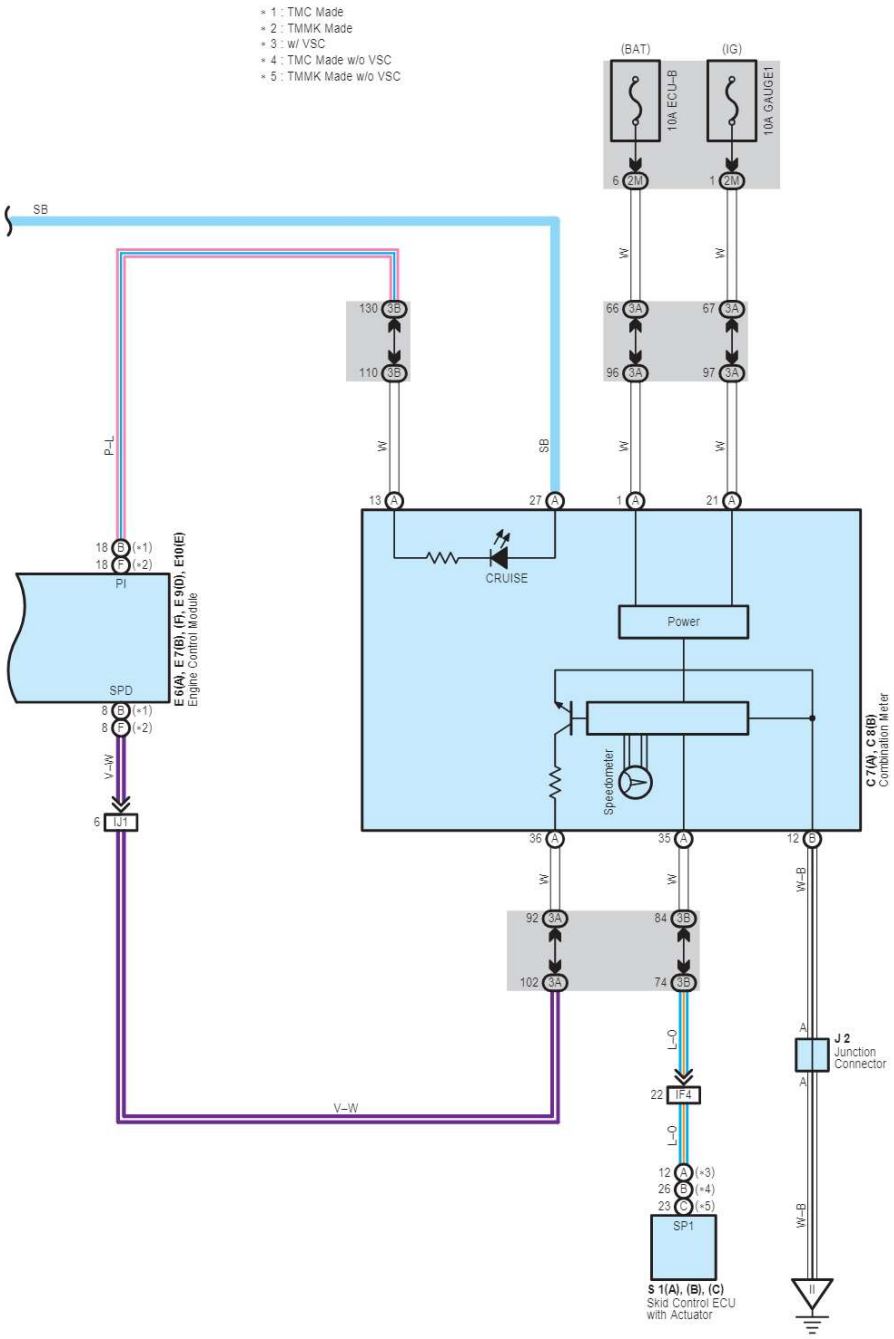
Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH

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


(BAT)
20A EFI
(IG)
10A IG2
(BAT)
15A STOP
(BAT)
10A ETCS
SB
B–O
W
B–Y
B–W
L–R
G–W
R–B
B–R
W–B
BR
LG
Y
B
EFI Relay
S14
Stop Light SW
IF4
IJ1
MREL
BATT
IGSW
ST1–
STP
+BM
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
+B2
+B
E01
E02
ME01
E04
E03
E1
GE01
M+
M–
VTA2
VTA1
VC
E2
(Shielded)
T12
Throttle Control Motor
Throttle Position Sensor
J 1
Junction Connector
ED
EH
EG

* 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
(BAT)
(IG)
10A ECU-B
10A GAUGE1
SB
W
P–L
V–W
W–B
CRUISE
Power
Speedometer
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
C 7(A), C 8(B)
Combination Meter
J 2
Junction
Connector
S 1(A), (B), (C)
Skid Control ECU
with Actuator

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

: **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**

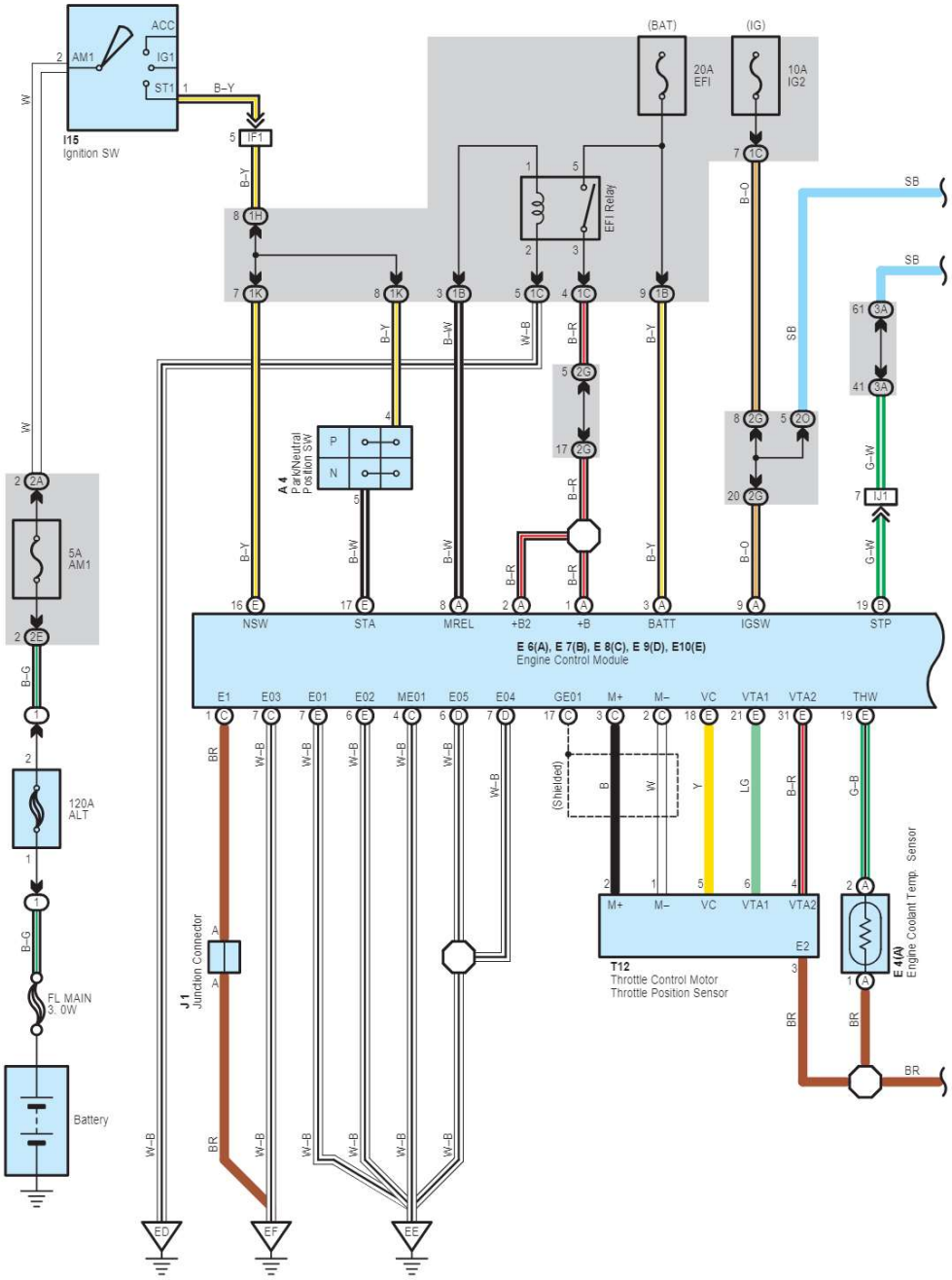
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel Wire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

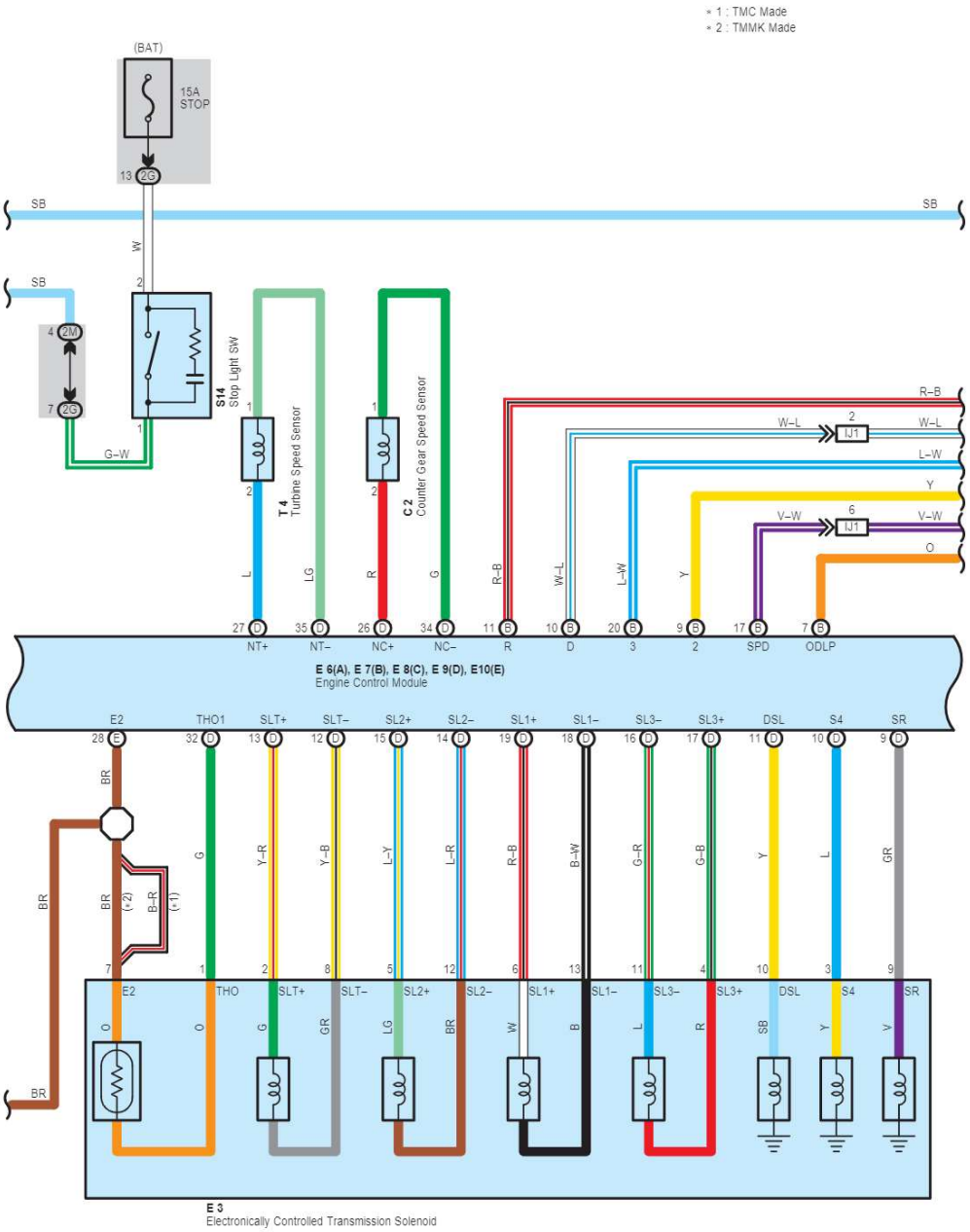
: **Ground Points**

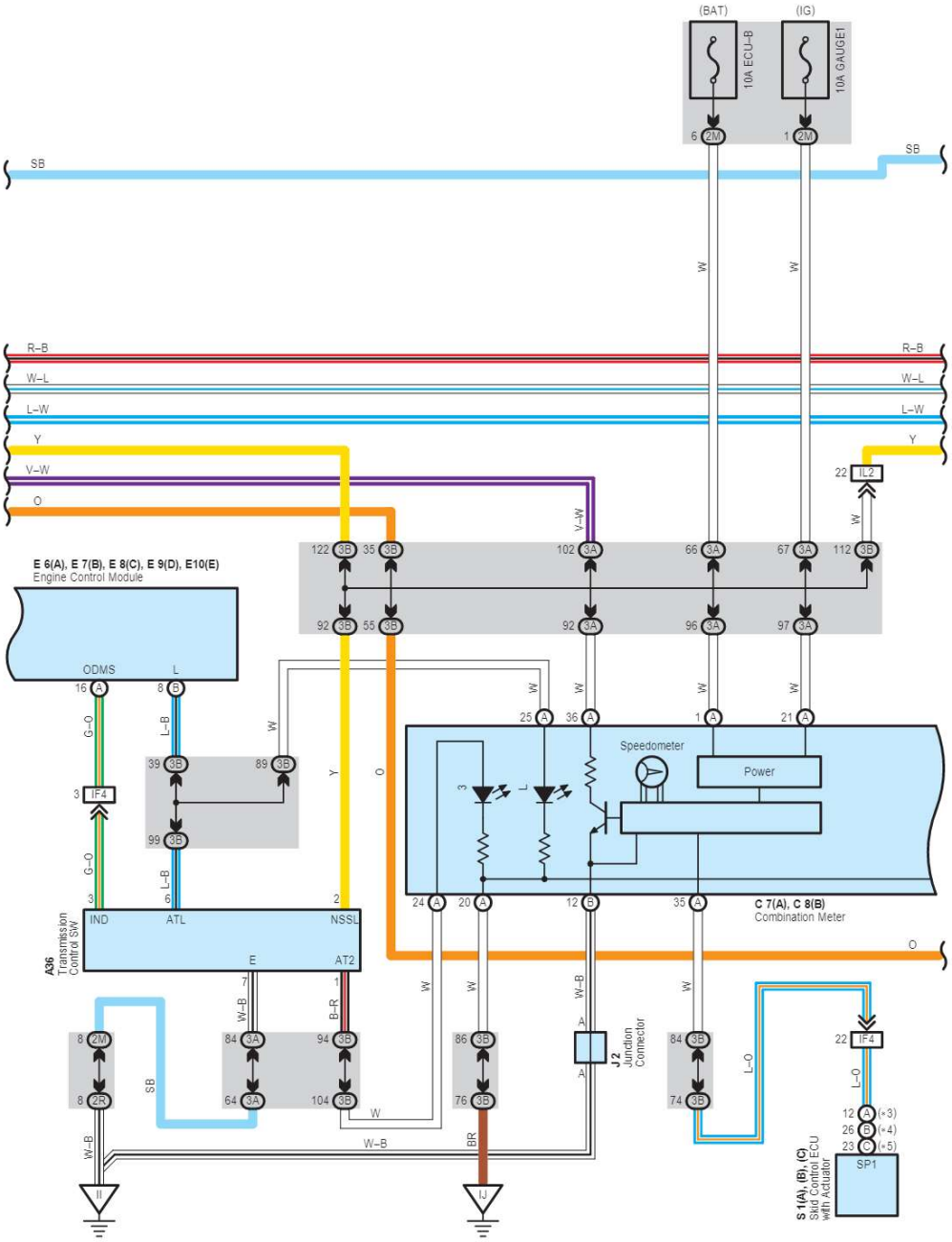
Code	See Page	Ground Points Location
EC	49 (*2)	Left Fender
ED		
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
II	50	Cowl Side Panel LH

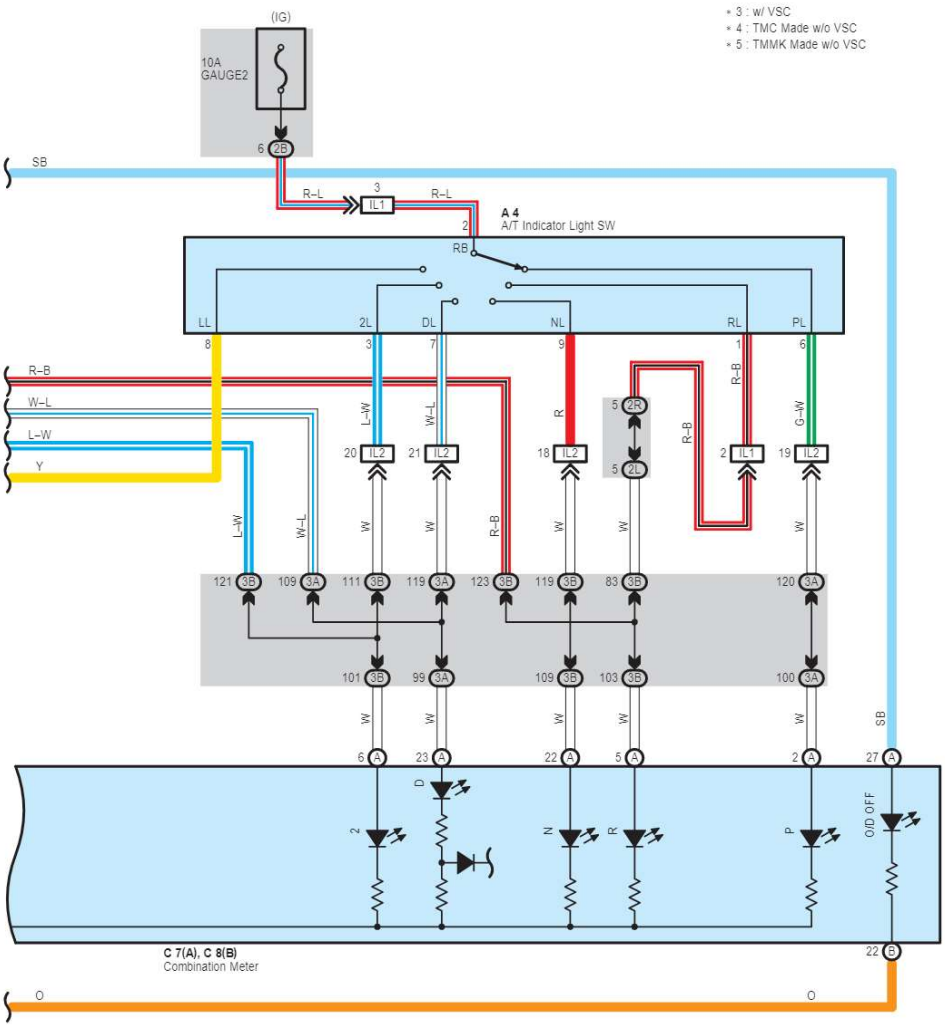
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

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




* 1 : TMC Made
* 2 : TMMK Made
(BAT)
15A STOP
13 2G
SB
SB
W
2
SB
4 2M
7 2G
G–W
1
S14 Stop Light SW
1
2
T4 Turbine Speed Sensor
1
2
C2 Counter Gear Speed Sensor
R–B
W–L
2 IJ1
W–L
L–W
Y
V–W
6 IJ1
V–W
O
L
LG
R
G
R–B
W–L
L–W
Y
V–W
O
27 D NT+
35 D NT–
26 D NC+
34 D NC–
11 B R
10 B D
20 B 3
9 B 2
17 B SPD
7 B ODLP
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
E2 THO1 SLT+ SLT– SL2+ SL2– SL1+ SL1– SL3– SL3+ DSL S4 SR
28 E 32 D 13 D 12 D 15 D 14 D 15 D 18 D 16 D 17 D 11 D 10 D 9 D
BR
BR
BR
(*2)
B–R
(*1)
G
Y–R
Y–B
L–Y
L–R
R–B
B–W
G–R
G–B
Y
L
GR
7
1
2
8
5
12
6
13
11
4
10
3
9
E2 THO SLT+ SLT– SL2+ SL2– SL1+ SL1– SL3– SL3+ DSL S4 SR
O
O
G
GR
LG
BR
W
B
L
R
SB
Y
V
BR
E 3
Electronically Controlled Transmission Solenoid


(BAT)
(IG)
10A ECU-B
10A GAUGE1
SB
W
R–B
W–L
L–W
Y
V–W
O
E 6(A), E 7(B), E 8(C), E 9(D), E10(E)
Engine Control Module
ODMS
L
G–O
L–B
IF4
IND
ATL
NSSL
E
AT2
A36
Transmission Control SW
W–B
B–R
BR
Speedometer
Power
C 7(A), C 8(B)
Combination Meter
J2
Junction Connector
IL2
L–O
SP1
S 1(A), (B), (C)
Skid Control ECU with Actuator


* 3 : w/ VSC
* 4 : TMC Made w/o VSC
* 5 : TMMK Made w/o VSC
(IG)
10A
GAUGE2
6 2B
SB
R–L
3
IL1
R–L
2
A 4
A/T Indicator Light SW
RB
LL
2L
DL
NL
RL
PL
8
3
7
9
1
6
R–B
W–L
L–W
Y
20 IL2
21 IL2
18 IL2
5 2R
5 2L
2 IL1
19 IL2
L–W
W–L
R
R–B
G–W
W
121 3B
109 3A
111 3B
119 3A
123 3B
119 3B
83 3B
120 3A
101 3B
99 3A
109 3B
103 3B
100 3A
6 A
23 A
22 A
5 A
2 A
27 A
D
2
N
R
P
O/D OFF
22 B
C 7(A), C 8(B)
Combination Meter
O
O

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		

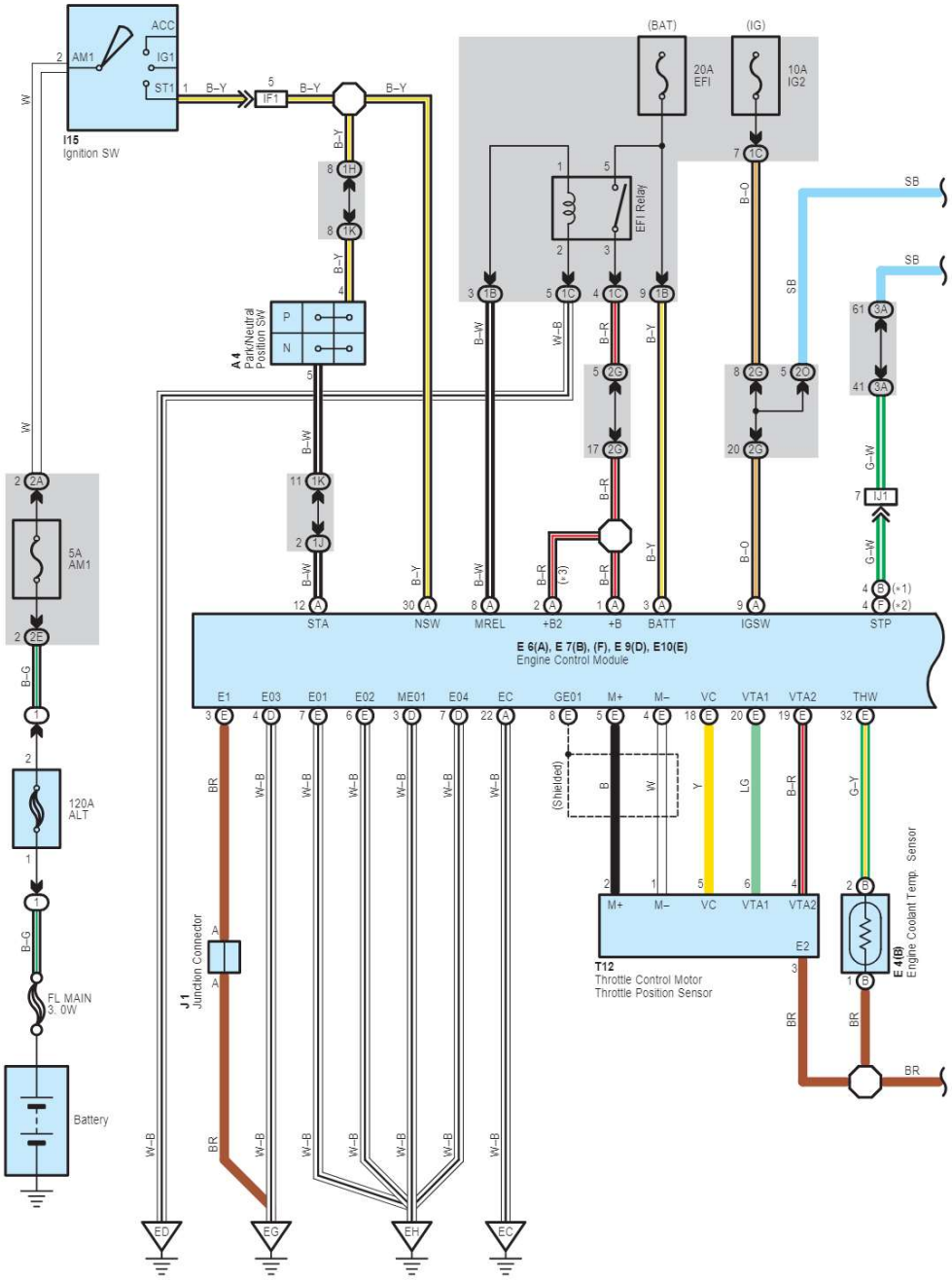
: **Connector Joining Wire Harness and Wire Harness**

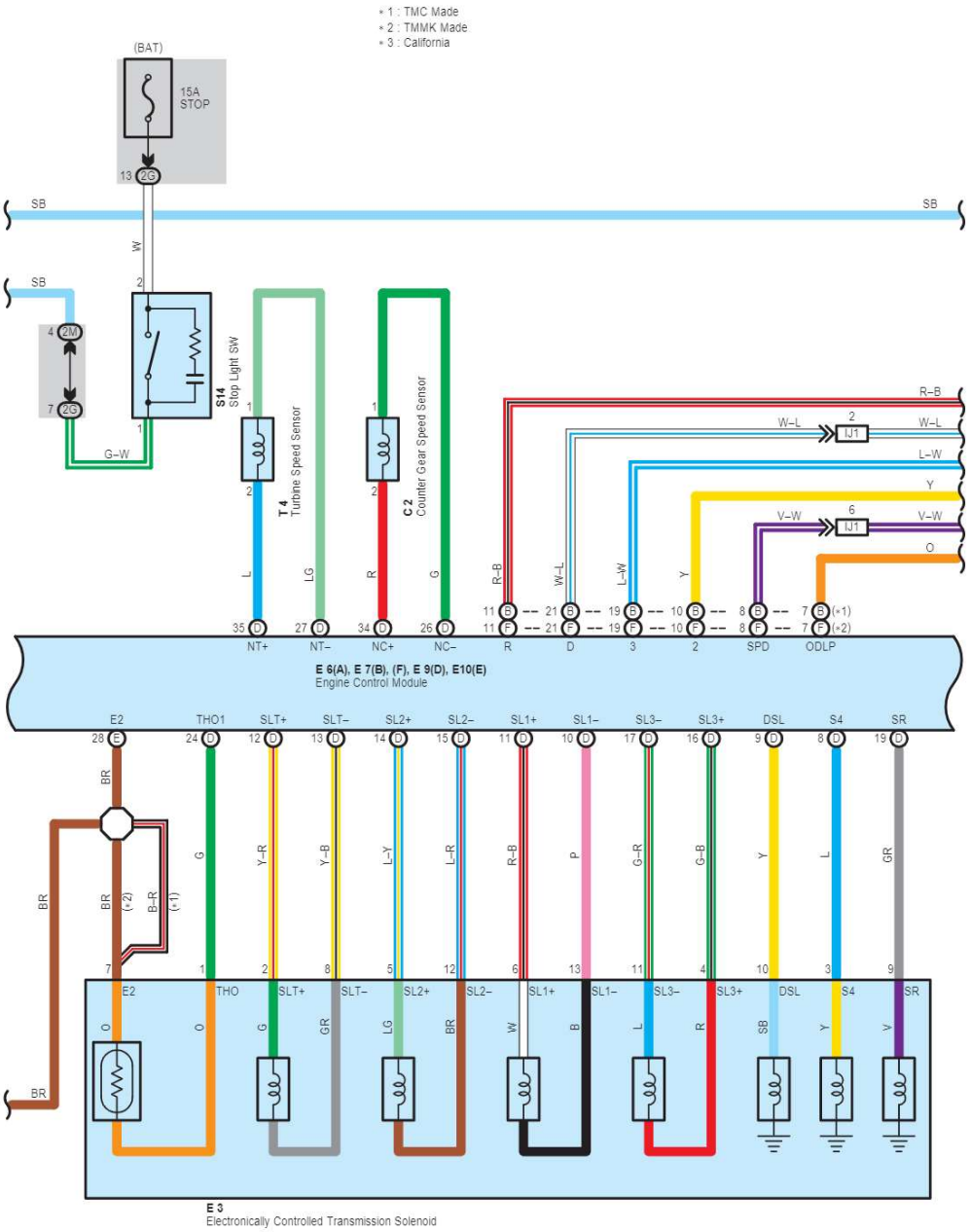
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
IL1	51	Engine Wire and Instrument Panel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

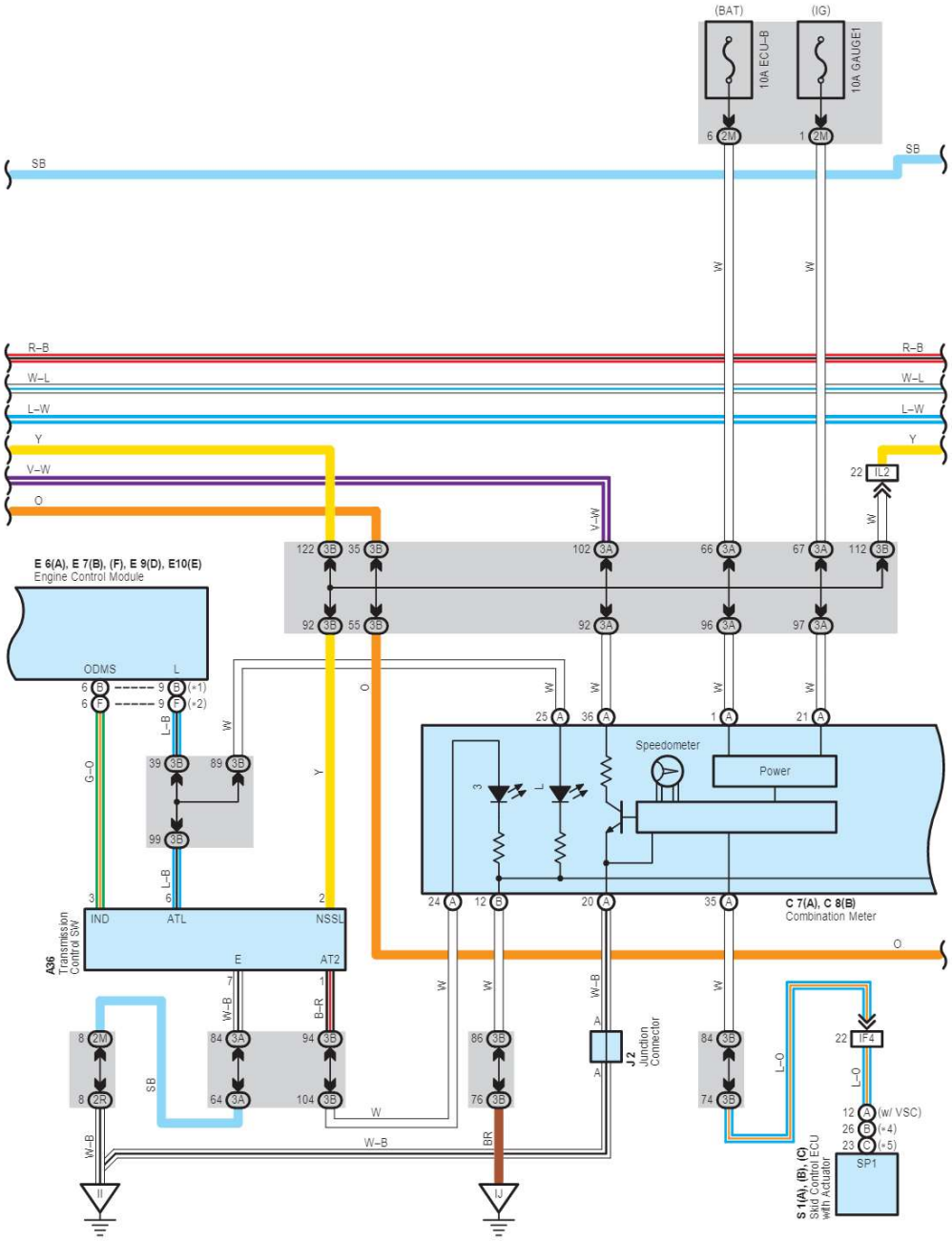
: **Ground Points**

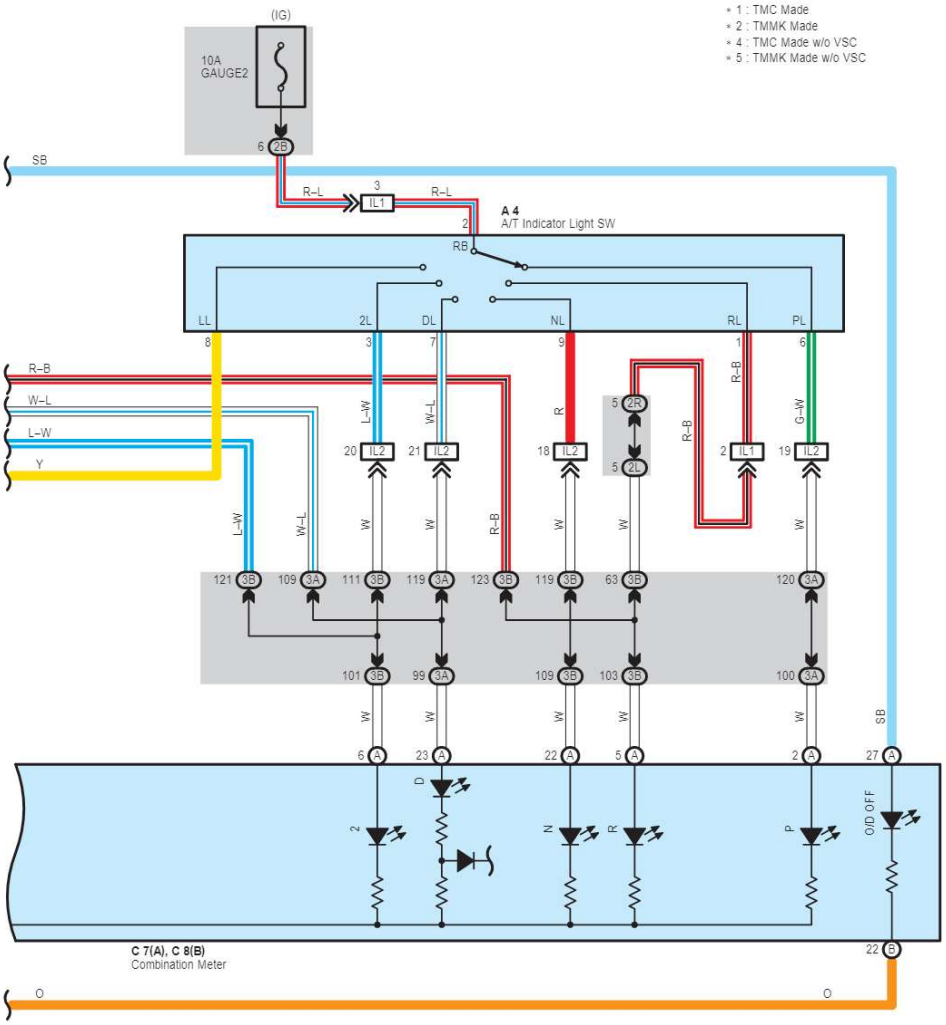
Code	See Page	Ground Points Location
ED	48 (*1)	Left Fender
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
IJ	50	Instrument Panel Brace LH

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


I15
Ignition SW
ACC
IG1
ST1
AM1
IF1
(BAT)
(IG)
20A
EFI
10A
IG2
EFI Relay
A4
Park/Neutral
Position SW
P
N
5A
AM1
120A
ALT
FL MAIN
3. 0W
Battery
J1
Junction Connector
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
STA
NSW
MREL
+B2
+B
BATT
IGSW
STP
E1
E03
E01
E02
ME01
E04
EC
GE01
M+
M–
VC
VTA1
VTA2
THW
(Shielded)
T12
Throttle Control Motor
Throttle Position Sensor
E2
E 41(B)
Engine Coolant Temp. Sensor
ED
EG
EH
EC


* 1 : TMC Made
* 2 : TMMK Made
* 3 : California
(BAT)
15A STOP
13 2G
SB
W
2
4 2M
7 2G
G–W
S14 Stop Light SW
T4 Turbine Speed Sensor
C2 Counter Gear Speed Sensor
L
LG
R
G
R–B
W–L
L–W
Y
V–W
O
IJ1
35 D NT+
27 D NT–
34 D NC+
26 D NC–
11 E 11 F R
21 E 21 F D
19 E 19 F 3
10 E 10 F 2
8 E 8 F SPD
7 E (*1) 7 F (*2) ODLP
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
E2 THO1 SLT+ SLT– SL2+ SL2– SL1+ SL1– SL3– SL3+ DSL S4 SR
28 E 24 D 12 D 13 D 14 D 15 D 11 D 10 D 17 D 16 D 9 D 8 D 19 D
BR
G
Y–R
Y–B
L–Y
L–R
R–B
P
G–R
G–B
Y
L
GR
B–R (*1)
BR (*2)
7 1 2 8 5 12 6 13 11 4 10 3 9
E2 THO SLT+ SLT– SL2+ SL2– SL1+ SL1– SL3– SL3+ DSL S4 SR
O
GR
LG
BR
W
B
L
R
SB
Y
V
E 3
Electronically Controlled Transmission Solenoid


(BAT)
(IG)
10A ECU-B
10A GAUGE1
SB
R–B
W–L
L–W
Y
V–W
O
W
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
ODMS
L
G–O
L–B
W–B
B–R
BR
Speedometer
Power
C 7(A), C 8(B)
Combination Meter
A36
Transmission Control SW
IND
ATL
NSSL
E
AT2
J2
Junction Connector
IL2
IF4
L–O
(w/ VSC)
(*4)
(*5)
SP1
S1(A), (B), (C)
Skid Control ECU with Actuator


* 1 : TMC Made
* 2 : TMMK Made
* 4 : TMC Made w/o VSC
* 5 : TMMK Made w/o VSC
(IG)
10A
GAUGE2
6 2B
SB
R–L
3
IL1
R–L
2
A 4
A/T Indicator Light SW
RB
LL
2L
DL
NL
RL
PL
8
3
7
9
1
6
R–B
W–L
L–W
Y
L–W
W–L
L–W
W–L
R
R–B
G–W
5 2K
5 2L
20 IL2
21 IL2
18 IL2
2 IL1
19 IL2
W
W
R–B
W
W
W
121 3B
109 3A
111 3B
119 3A
123 3B
119 3B
63 3B
120 3A
101 3B
99 3A
109 3B
103 3B
100 3A
W
W
W
W
W
SB
6 A
23 A
22 A
5 A
2 A
27 A
D
2
N
R
P
O/D OFF
22 B
C 7(A), C 8(B)
Combination Meter
O
O

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		

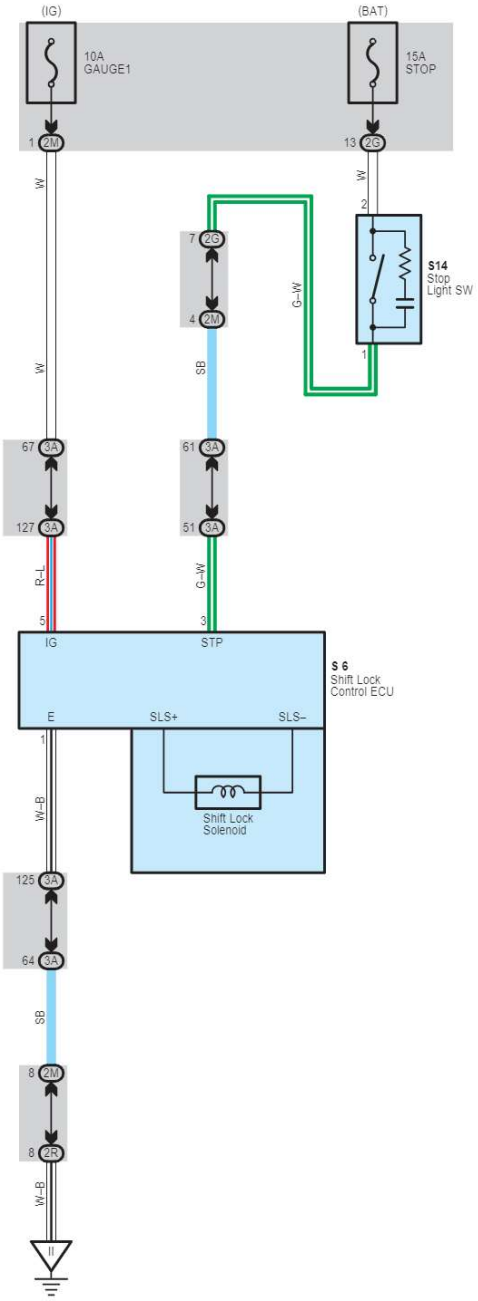
: **Connector Joining Wire Harness and Wire Harness**

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


(IG)
(BAT)
10A
GAUGE1
15A
STOP
1 2M
13 2G
W
2
7 2G
4 2M
G–W
S14
Stop
Light SW
1
W
SB
67 3A
127 3A
61 3A
51 3A
R–L
G–W
5
3
IG
STP
S 6
Shift Lock
Control ECU
E
SLS+
SLS–
1
Shift Lock
Solenoid
W–B
125 3A
64 3A
SB
8 2M
8 2R
W–B

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.

O : Parts Location

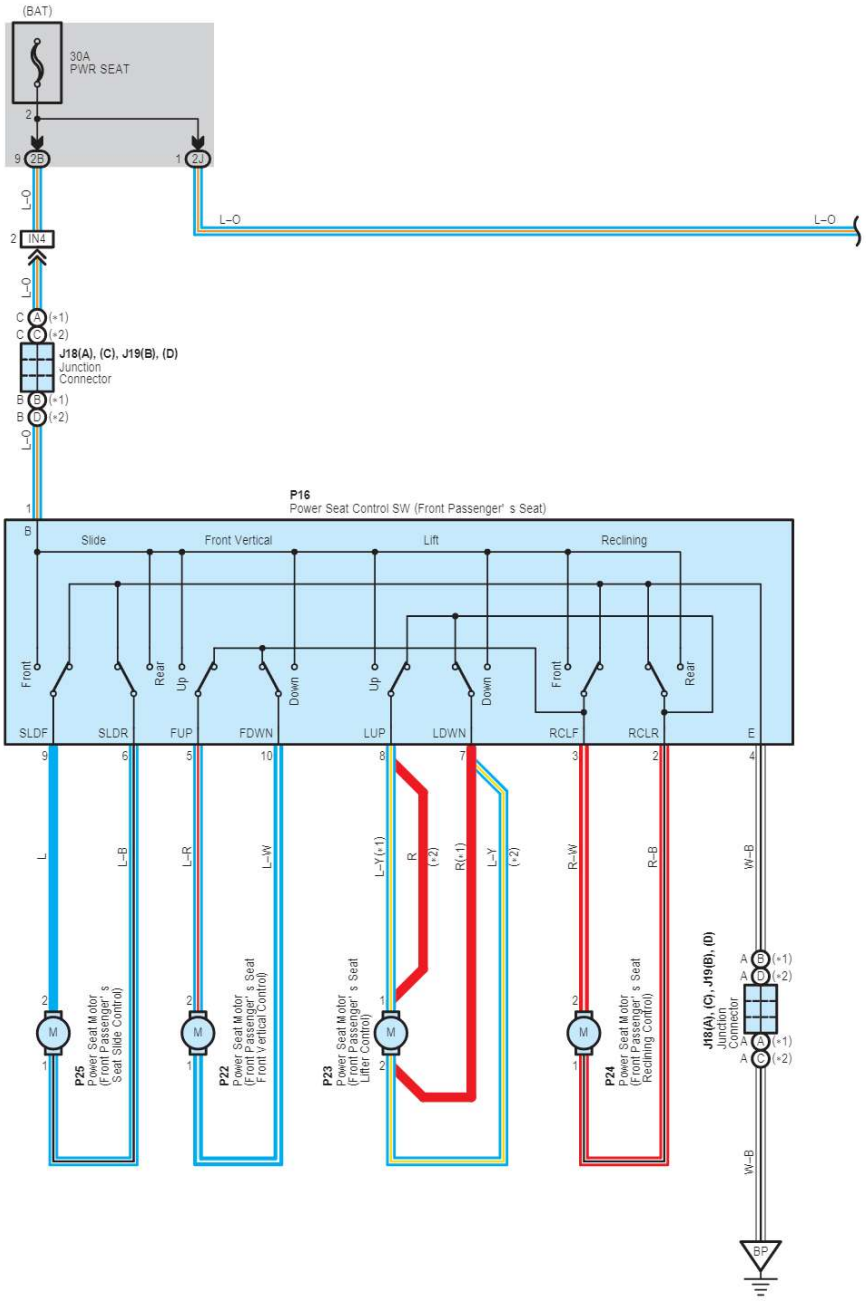
Code	See Page	Code	See Page	Code	See Page
S6	43	S14	43		

: Junction Block and Wire Harness Connector

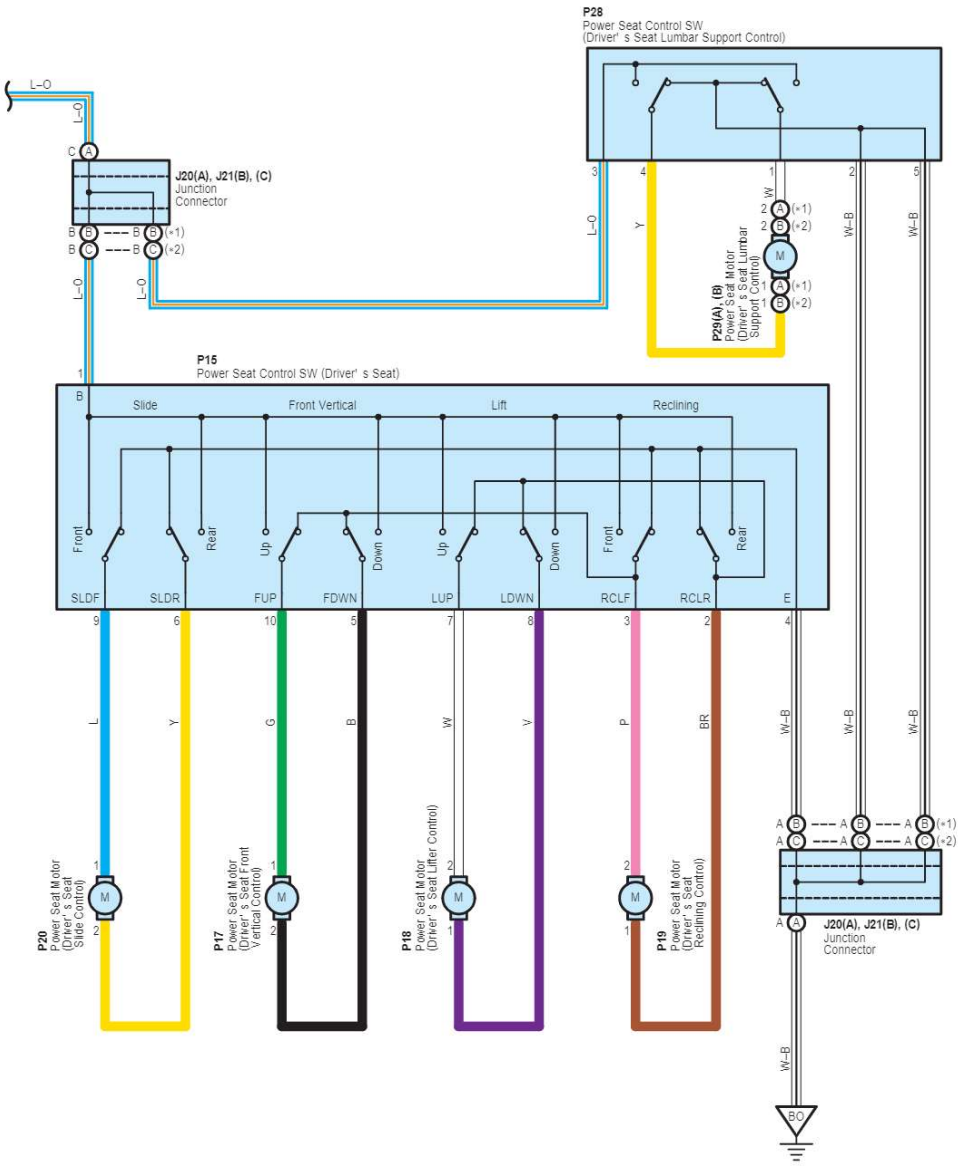
Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
3A	34	Instrument Panel Wire and Passenger Side J/B (Instrument Panel Brace RH)

: Ground Points

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


(BAT)
30A
PWR SEAT
2B
2J
IN4
L–O
J18(A), (C), J19(B), (D)
Junction
Connector
P16
Power Seat Control SW (Front Passenger' s Seat)
Slide
Front Vertical
Lift
Reclining
Front
Rear
Up
Down
SLDF
SLDR
FUP
FDWN
LUP
LDWN
RCLF
RCLR
E
L
L–B
L–R
L–W
L–Y(+1)
R (+2)
R(+1)
L–Y (+2)
R–W
R–B
W–B
P25
Power Seat Motor
(Front Passenger' 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)
BF

* 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)

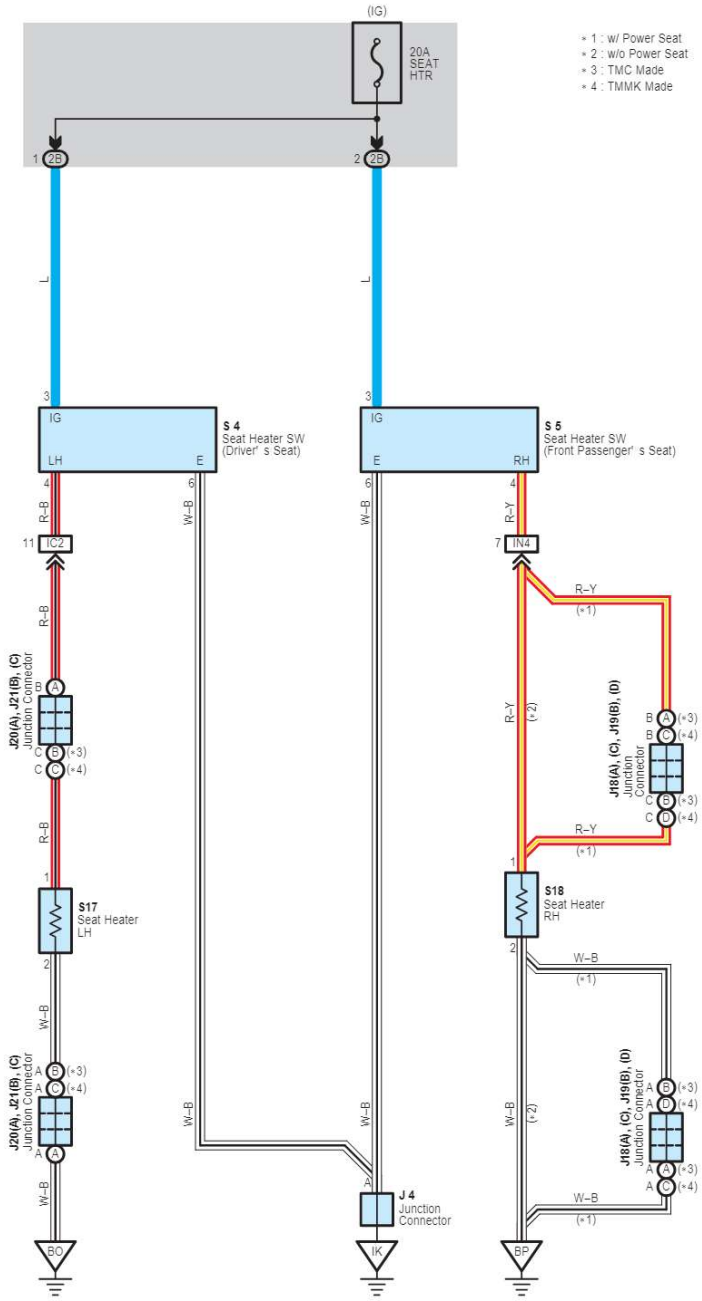
▭ : **Connector Joining Wire Harness and Wire Harness**

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


(IG)
20A SEAT HTR
* 1 : w/ Power Seat
* 2 : w/o Power Seat
* 3 : TMC Made
* 4 : TMMK Made
2B
L
IG
LH
E
S 4
Seat Heater SW (Driver' s Seat)
RH
S 5
Seat Heater SW (Front Passenger' s Seat)
R-B
W-B
R-Y
IC2
IN4
J20(A), J21(B), (C) Junction Connector
J18(A), (C), J19(B), (D) Junction Connector
S17
Seat Heater LH
S18
Seat Heater RH
J 4
Junction Connector
BO
IK
BP

○ : **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**

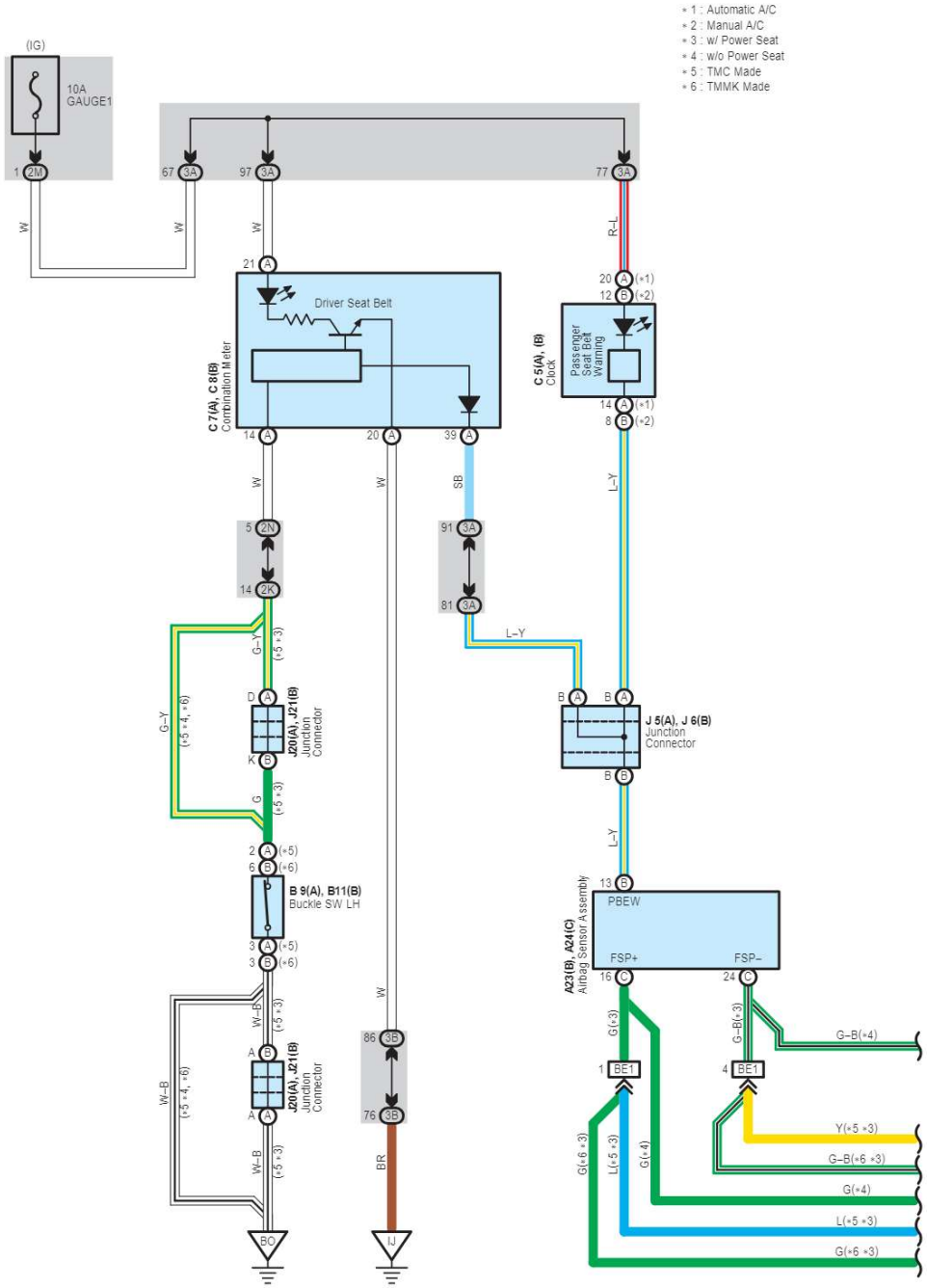
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IN4	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

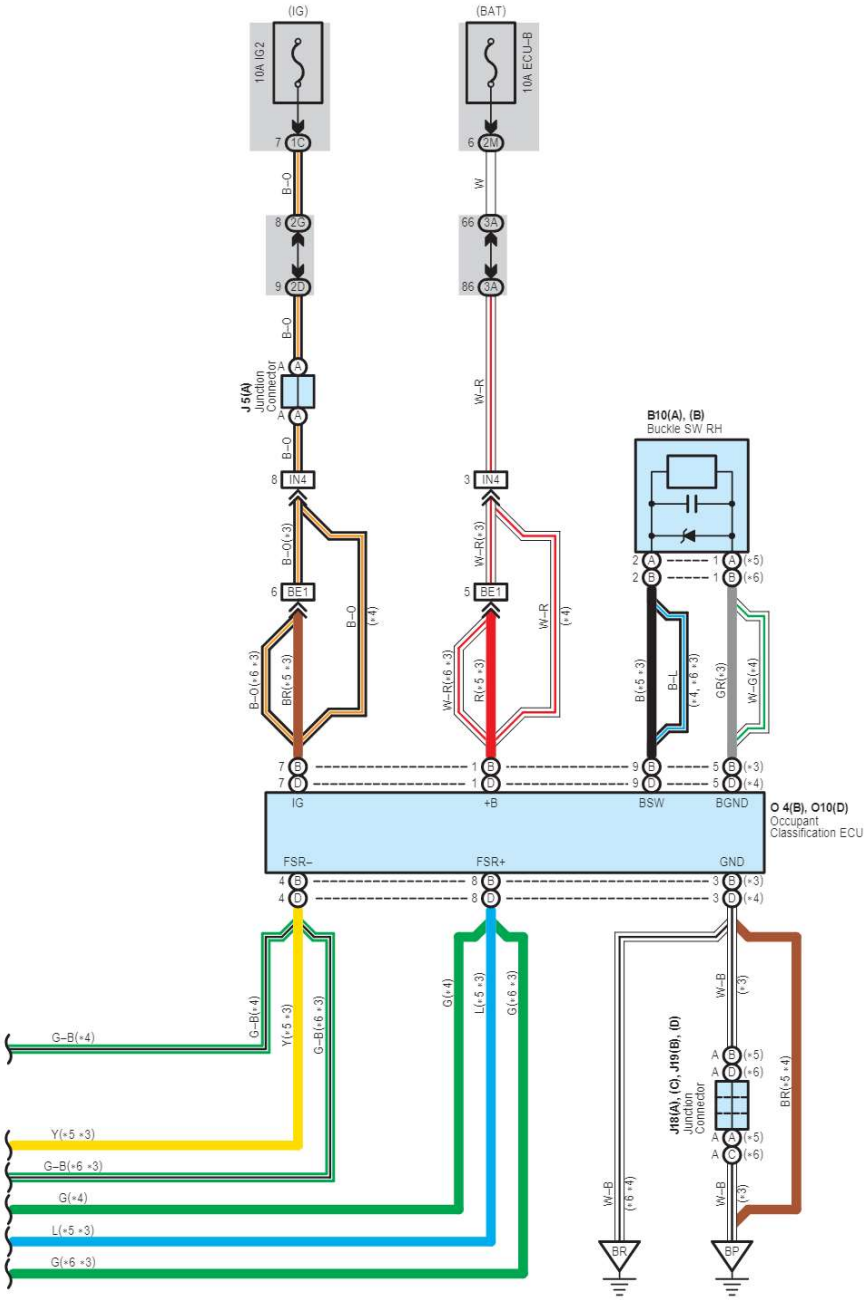
▽ : **Ground Points**

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




(IG)
(BAT)
10A IG2
10A ECU-B
J5(A)
Junction Connector
B10(A), (B)
Buckle SW RH
O 4(B), O10(D)
Occupant Classification ECU
IG
+B
BSW
BGND
FSR–
FSR+
GND
J18(A), (C), J19(B), (D)
Junction Connector

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		D	46 (*3)
B9	A	46 (*3)		B	42	J20	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		

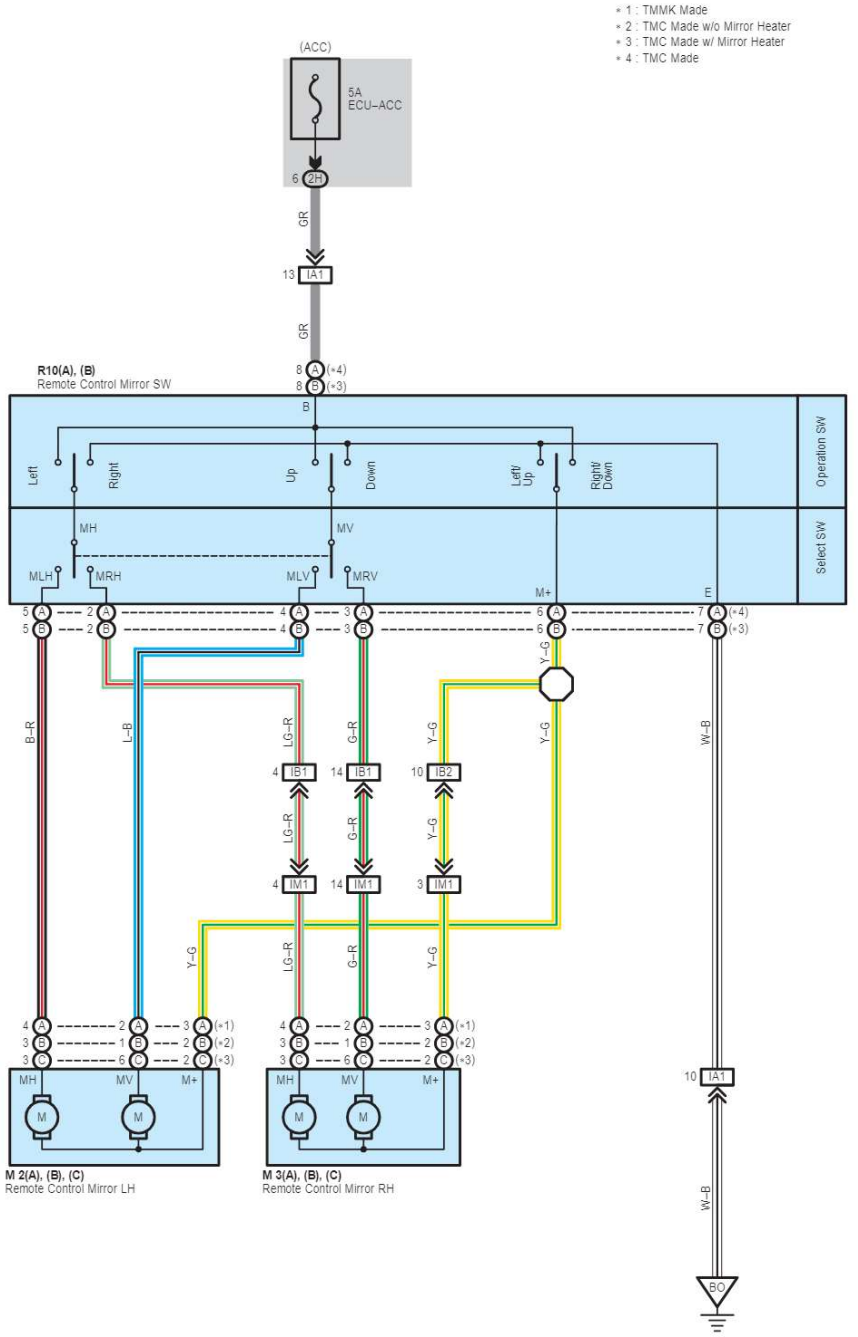
▭ : Connector Joining Wire Harness and Wire Harness

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


* 1 : TMMK Made
* 2 : TMC Made w/o Mirror Heater
* 3 : TMC Made w/ Mirror Heater
* 4 : TMC Made
(ACC)
5A
ECU–ACC
6 2H
GR
13 IA1
GR
R10(A), (B)
Remote Control Mirror SW
8 A (*4)
8 B (*3)
B
Left
Right
Up
Down
Left/
Up
Right/
Down
Operation SW
Select SW
MH
MV
MLH
MRH
MLV
MRV
M+
E
B–R
L–B
LG–R
G–R
Y–G
W–B
4 IB1
14 IB1
10 IB2
4 IM1
14 IM1
3 IM1
10 IA1
BO
M 2(A), (B), (C)
Remote Control Mirror LH
M 3(A), (B), (C)
Remote Control Mirror RH

○ : **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**

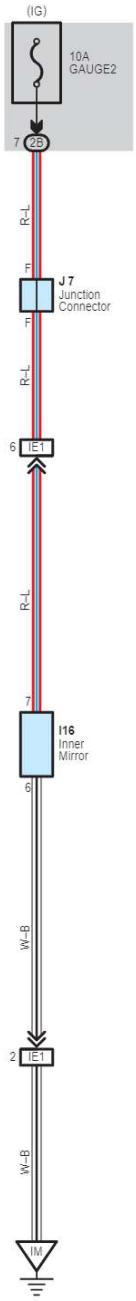
Code	See Page	Junction Block and Wire Harness (Connector Location)
2H	28	Floor Wire and Driver Side J/B (Lower Finish Panel)

▭ : **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


(IG)
10A
GAUGE2
7
2B
R–L
F
J 7
Junction
Connector
F
R–L
6
IE1
R–L
7
I16
Inner
Mirror
6
W–B
2
IE1
W–B
IM

○ : **Parts Location**

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

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

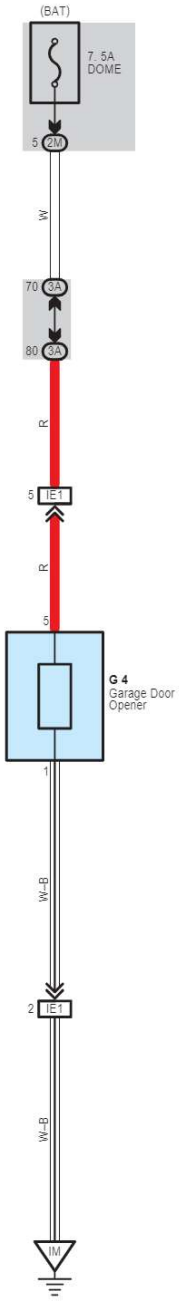
Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

▭ : **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


(BAT)
7. 5A
DOME
5
2M
W
70
3A
80
3A
R
5
IE1
R
5
G 4
Garage Door
Opener
1
W-B
2
IE1
W-B
IM

○ : **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)

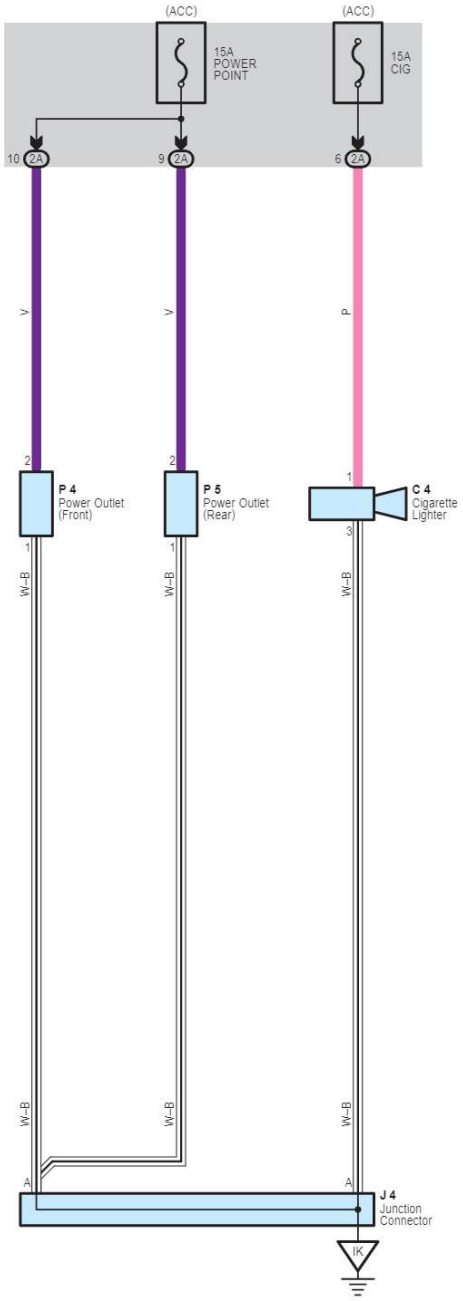
▭ : **Connector Joining Wire Harness and Wire Harness**

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**

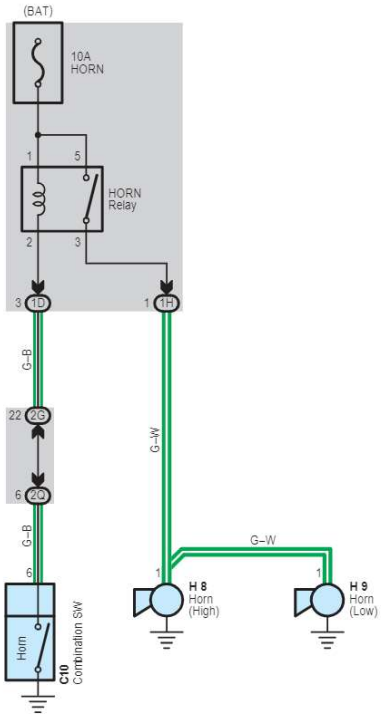
Code	See Page	Code	See Page	Code	See Page
C4	42	P4	43		
J4	43	P5	43		

⬭ : **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


(BAT)
10A
HORN
1
5
HORN
Relay
2
3
3
1D
1
1H
G–B
22
2G
G–W
6
2Q
G–B
6
1
1
H 8
Horn
(High)
H 9
Horn
(Low)
Horn
C10
Combination SW

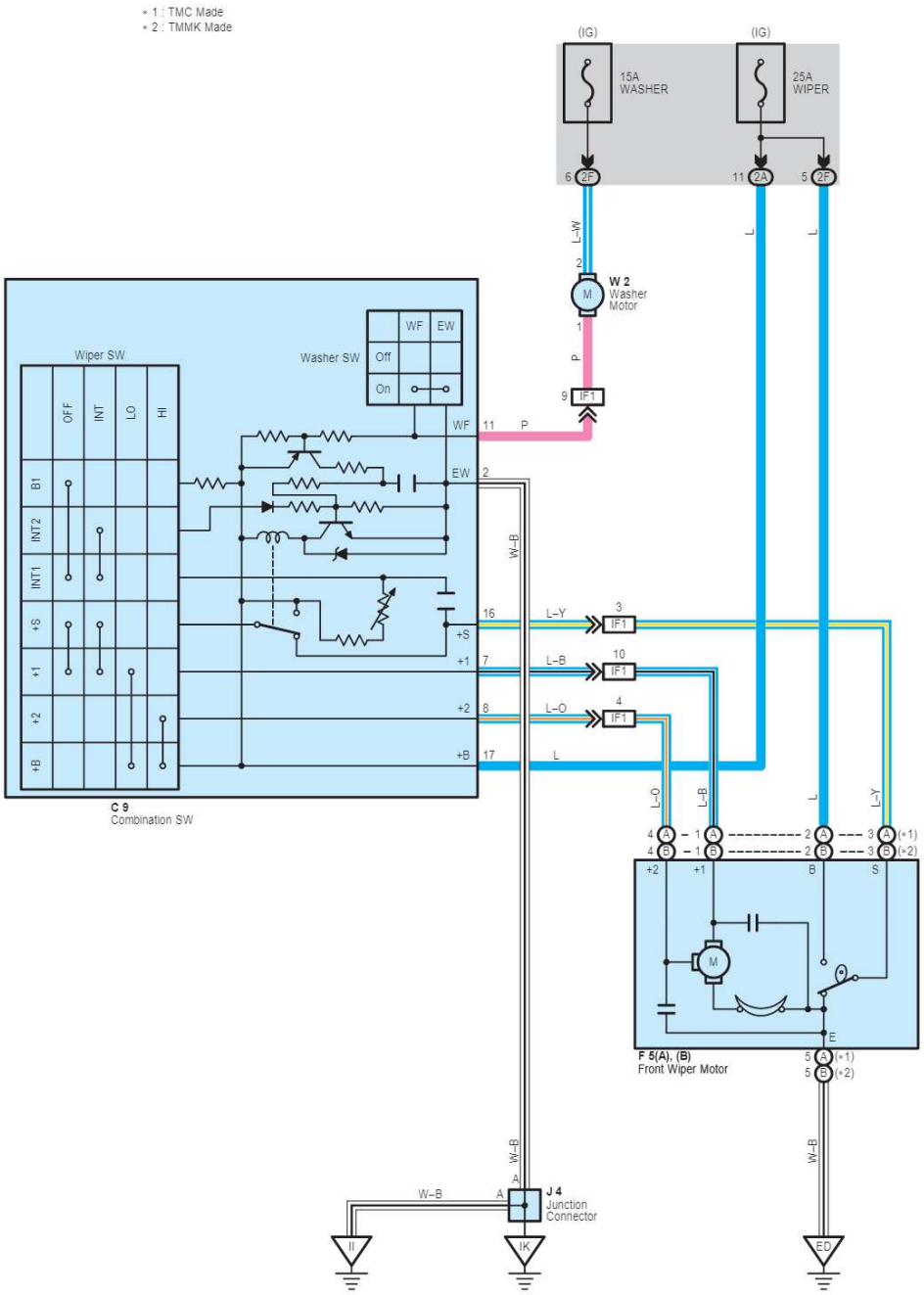
○ : **Parts Location**

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


* 1 : TMC Made
* 2 : TMMK Made
(IG)
(IG)
15A WASHER
25A WIPER
6 2F
11 2A
5 2F
L-W
L
L
2
W 2 Washer Motor
M
1
P
9 IF1
Wiper SW
Washer SW
WF EW
Off
On
OFF INT LO HI
B1
INT2
INT1
+S
+1
+2
+B
WF 11 P
EW 2
W-B
16 L-Y 3 IF1
+S
+1 7 L-B 10 IF1
+2 8 L-O 4 IF1
+B 17 L
C 9 Combination SW
L-O
L-B
L
L-Y
4 A 1 A 2 A 3 A (*1)
4 B 1 B 2 B 3 B (*2)
+2 +1 B S
M
E
F 5(A), (B) Front Wiper Motor
5 A (*1)
5 B (*2)
W-B
W-B A
J 4 Junction Connector
W-B
II
IK
ED

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)	W2	39 (*1)
F5	A	38 (*1)			40 (*2)		41 (*2)
		40 (*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

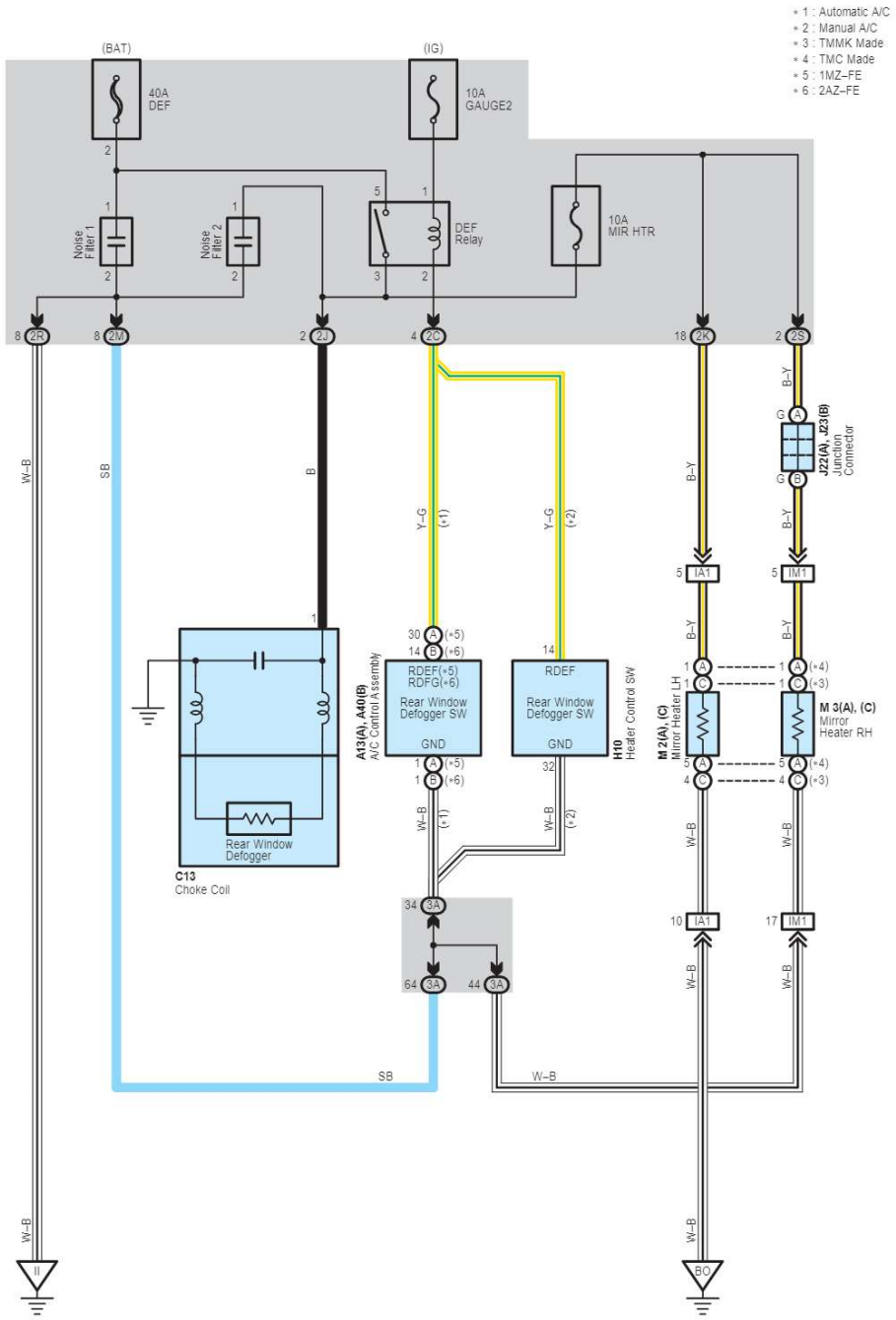
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

▽ : 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



○ : **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**

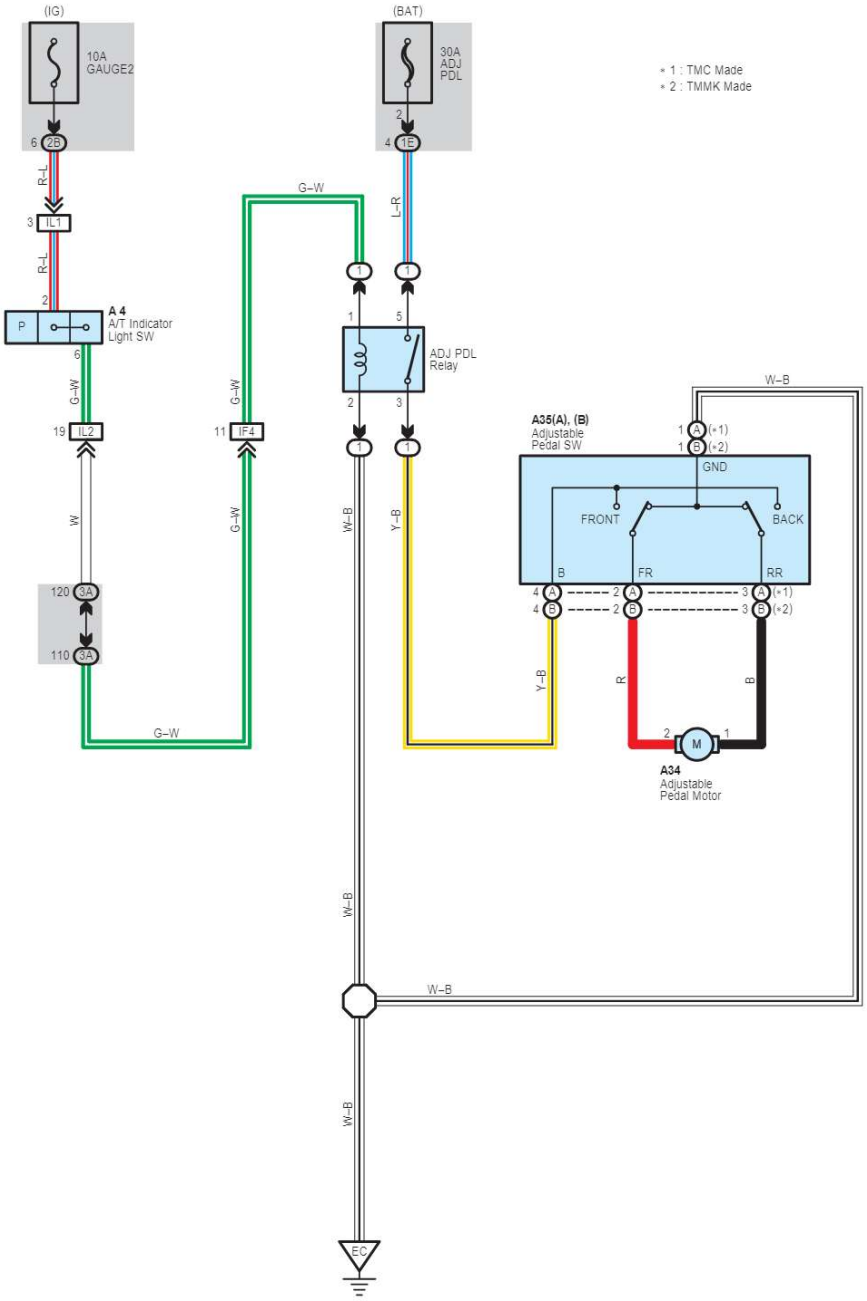
Code	See Page	Junction Block and Wire Harness (Connector Location)
2C	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2J	28	Floor Wire and Driver Side J/B (Lower Finish Panel)
2K		
2M	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2R		
2S		
3A	34	Instrument Panel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


(IG)
10A
GAUGE2
6
2B
R–L
3
IL1
R–L
2
A 4
A/T Indicator
Light SW
P
6
G–W
19
IL2
W
120
3A
110
3A
G–W
G–W
11
IF4
G–W
(BAT)
30A
ADJ
PDL
2
4
1E
L–R
1
1
1
5
ADJ PDL
Relay
2
3
1
1
W–B
Y–B
W–B
W–B
W–B
EC
A35(A), (B)
Adjustable
Pedal SW
1
A
(+1)
1
B
(+2)
GND
FRONT
BACK
B
FR
RR
4
A
2
A
3
A
(*1)
4
B
2
B
3
B
(*2)
Y–B
R
B
2
M
1
A34
Adjustable
Pedal Motor
W–B
* 1 : TMC Made
* 2 : TMMK Made

○ : **Parts Location**

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

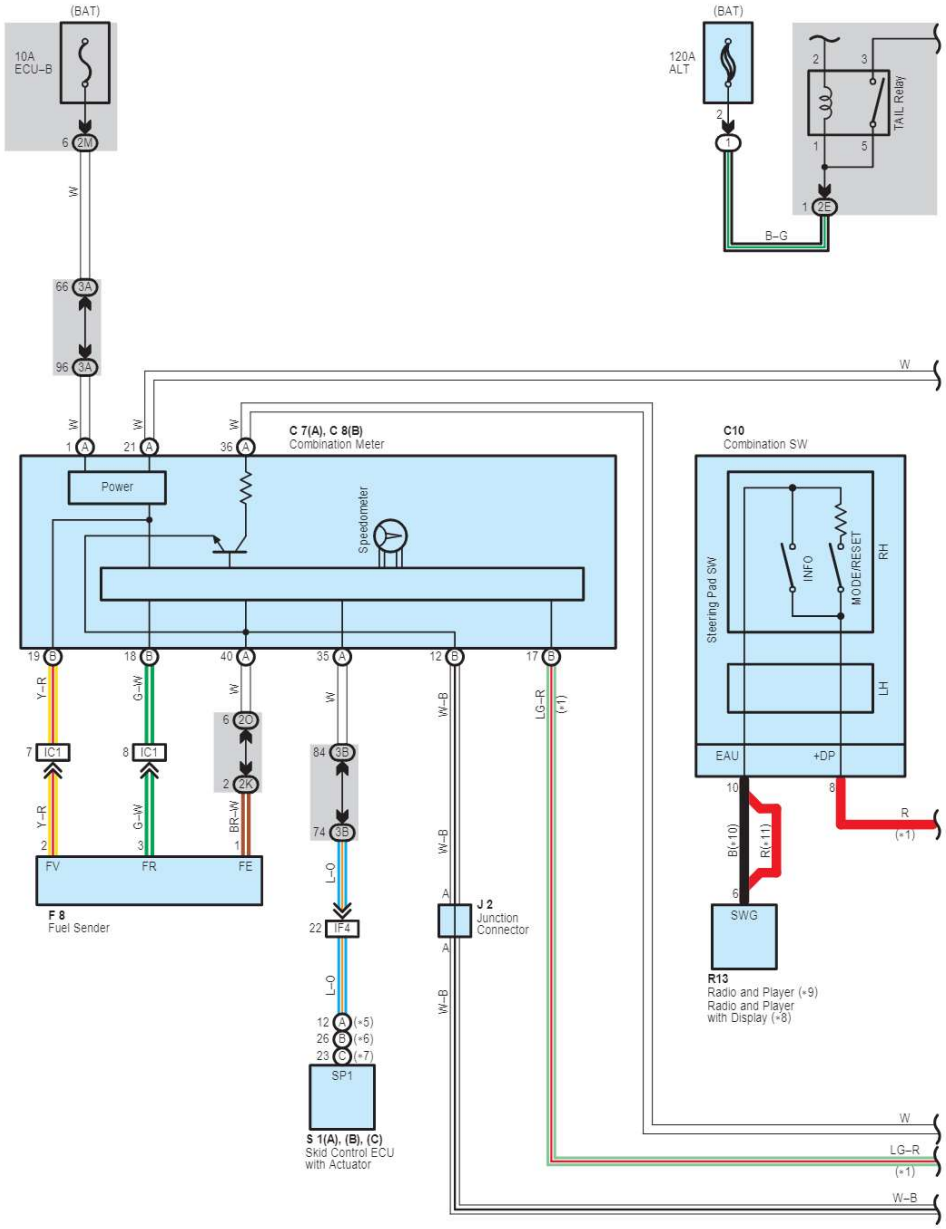
▭ : **Connector Joining Wire Harness and Wire Harness**

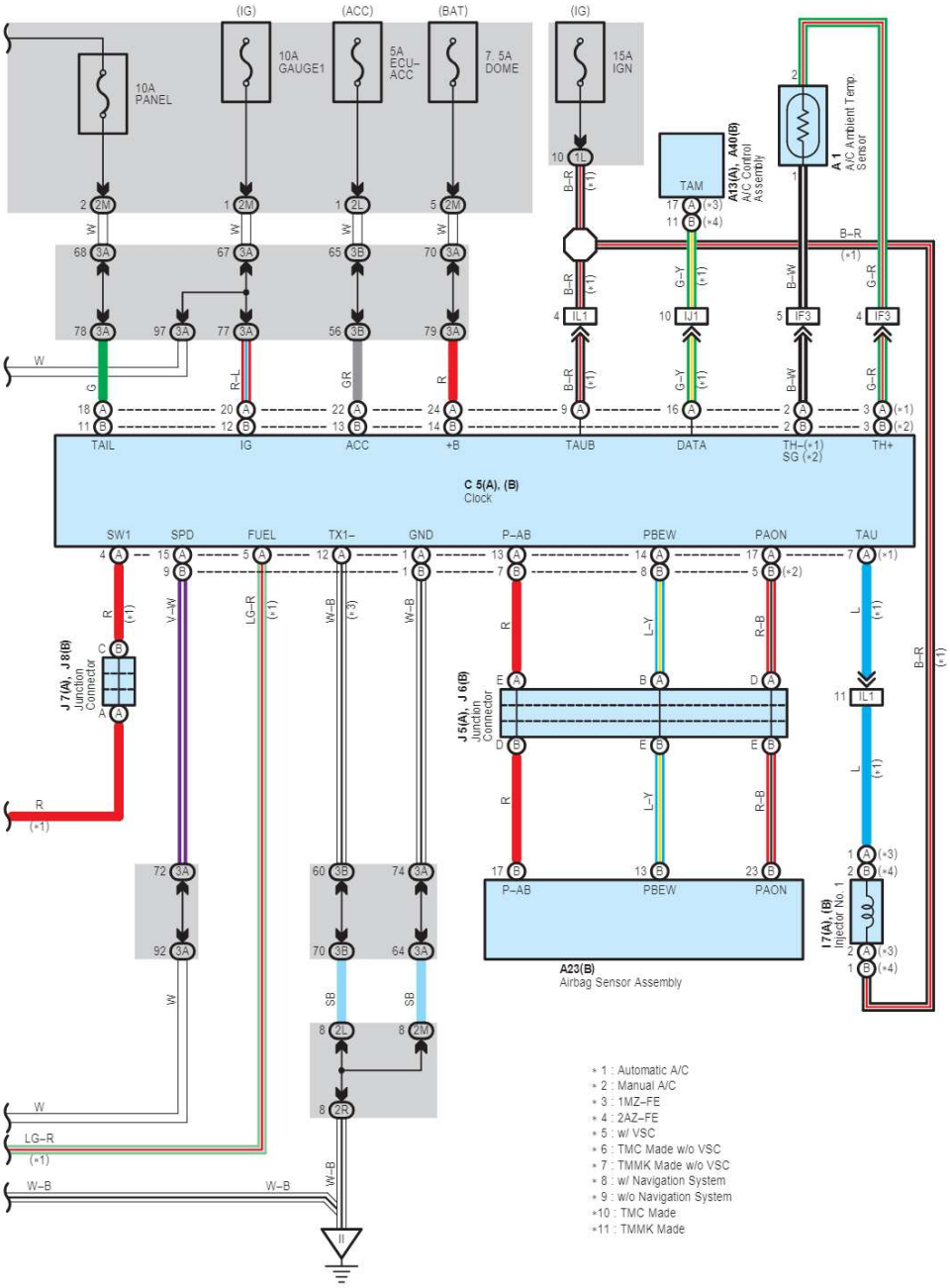
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IL1	51	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2		

▽ : **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


(BAT)
10A
ECU–B
6 2M
W
66 3A
96 3A
W
1 A
21 A
36 A
C 7(A), C 8(B)
Combination Meter
Power
Speedometer
19 B
18 B
40 A
35 A
12 B
17 B
Y–R
G–W
W
W
W–B
LG–R
(+1)
7 IC1
8 IC1
6 2O
2 2K
84 3B
74 3B
Y–R
G–W
BR–W
L–O
W–B
2
3
1
FV
FR
FE
F 8
Fuel Sender
22 IF4
L–O
A
J 2
Junction
Connector
A
W–B
12 A (+5)
26 B (+6)
23 C (+7)
SP1
S 1(A), (B), (C)
Skid Control ECU
with Actuator
(BAT)
120A
ALT
2
1
2
3
1
5
TAIL Relay
1 2E
B–G
W
C10
Combination SW
Steering Pad SW
INFO
MODE/RESET
RH
LH
EAU
+DP
10
8
R
(+1)
B(-10)
R(+11)
6
SWG
R13
Radio and Player (+9)
Radio and Player
with Display (+8)
W
LG–R
(+1)
W–B


(IG)
(ACC)
(BAT)
(IG)
10A PANEL
10A GAUGE1
5A ECU–ACC
7. 5A DOME
15A IGN
TAM
A13(A), A40(B) A/C Control Assembly
A1 A/C Ambient Temp. Sensor
TAIL
IG
ACC
+B
TAUB
DATA
TH–(*1) SG (*2)
TH+
C 5(A), (B) Clock
SW1
SPD
FUEL
TX1–
GND
P–AB
PBEW
PAON
TAU
J7(A), J8(B) Junction Connector
J5(A), J6(B) Junction Connector
A23(B) Airbag Sensor Assembly
I7(A), (B) Injector No. 1
* 1 : Automatic A/C
* 2 : Manual A/C
* 3 : 1MZ–FE
* 4 : 2AZ–FE
* 5 : w/ VSC
* 6 : TMC Made w/o VSC
* 7 : TMMK Made w/o VSC
* 8 : w/ Navigation System
* 9 : w/o Navigation System
*10 : TMC Made
*11 : TMMK Made

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		

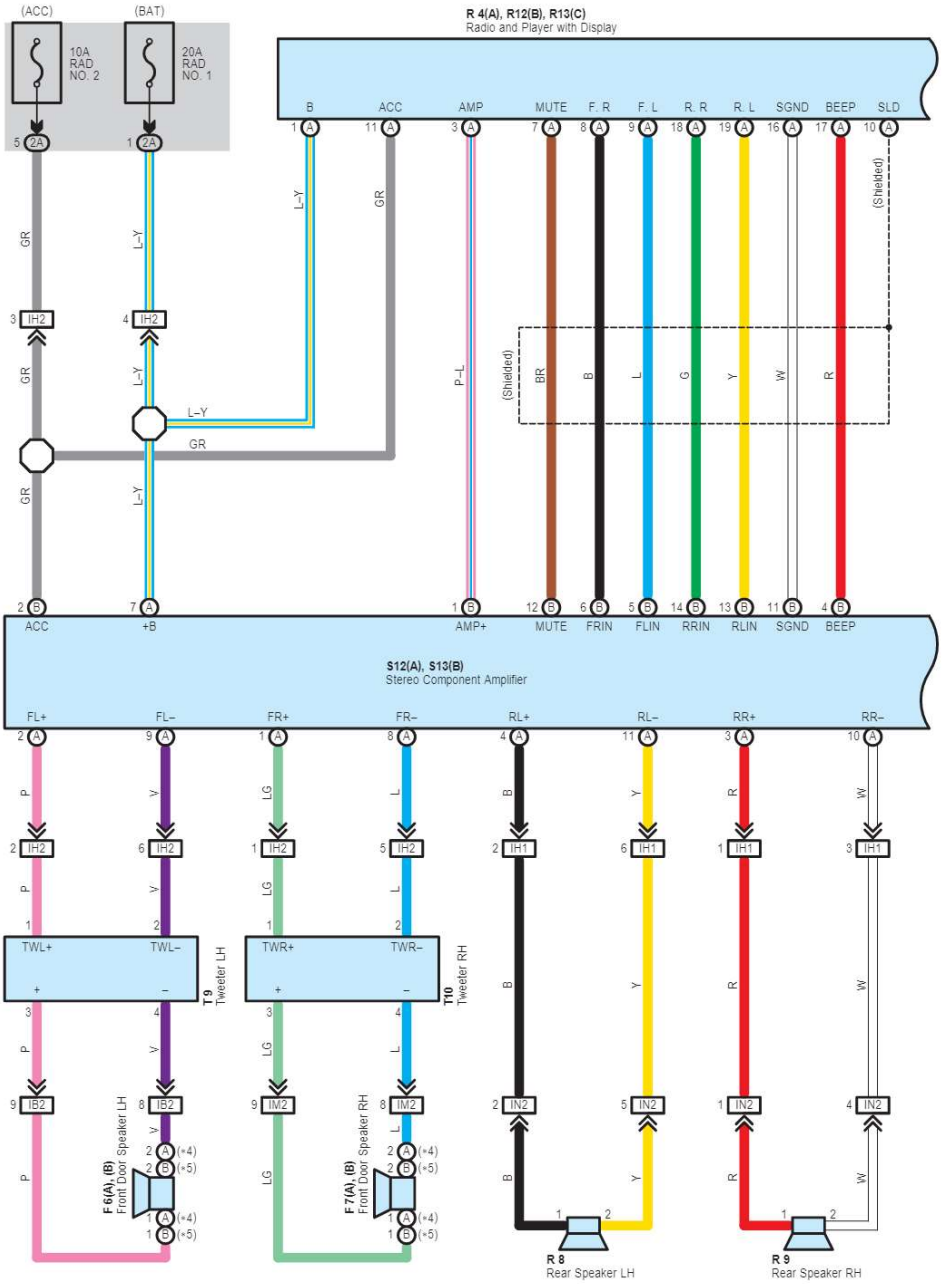
: Connector Joining Wire Harness and Wire Harness

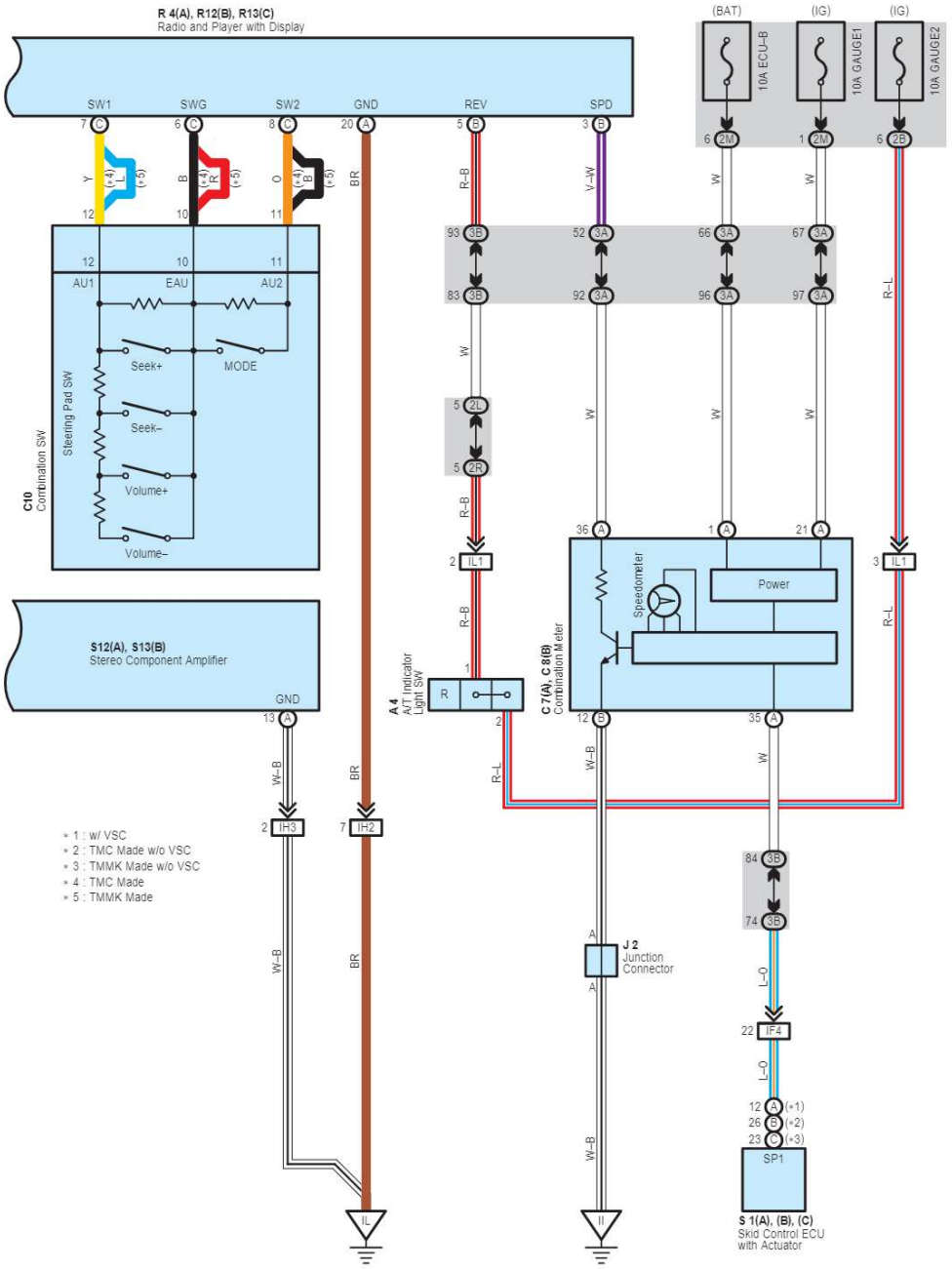
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF3	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF4		
IJ1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel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


(ACC)
(BAT)
10A RAD NO. 2
20A RAD NO. 1
R 4(A), R12(B), R13(C)
Radio and Player with Display
B
ACC
AMP
MUTE
F. R
F. L
R. R
R. L
SGND
BEEP
SLD
(Shielded)
GR
L–Y
P–L
BR
B
L
G
Y
W
R
IH2
ACC
+B
AMP+
MUTE
FRIN
FLIN
RRIN
RLIN
SGND
BEEP
S12(A), S13(B)
Stereo Component Amplifier
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
P
V
LG
L
B
Y
R
W
IH1
IN2
IB2
IM2
TWL+
TWL–
TWR+
TWR–
T9
Tweeter LH
T10
Tweeter RH
F 6(A), (B)
Front Door Speaker LH
F 7(A), (B)
Front Door Speaker RH
(*4)
(*5)
R 8
Rear Speaker LH
R 9
Rear Speaker RH


R 4(A), R12(B), R13(C)
Radio and Player with Display
SW1
SWG
SW2
GND
REV
SPD
(BAT)
(IG)
(IG)
10A ECU-B
10A GAUGE1
10A GAUGE2
C10
Combination SW
Steering Pad SW
AU1
EAU
AU2
Seek+
MODE
Seek–
Volume+
Volume–
S12(A), S13(B)
Stereo Component Amplifier
GND
A 4
A/T Indicator
Light SW
C7(A), C8(B)
Combination Meter
Speedometer
Power
J 2
Junction
Connector
S 1(A), (B), (C)
Skid Control ECU
with Actuator
SP1
IL
IH
* 1 : w/ VSC
* 2 : TMC Made w/o VSC
* 3 : TMMK Made w/o VSC
* 4 : TMC Made
* 5 : TMMK Made

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

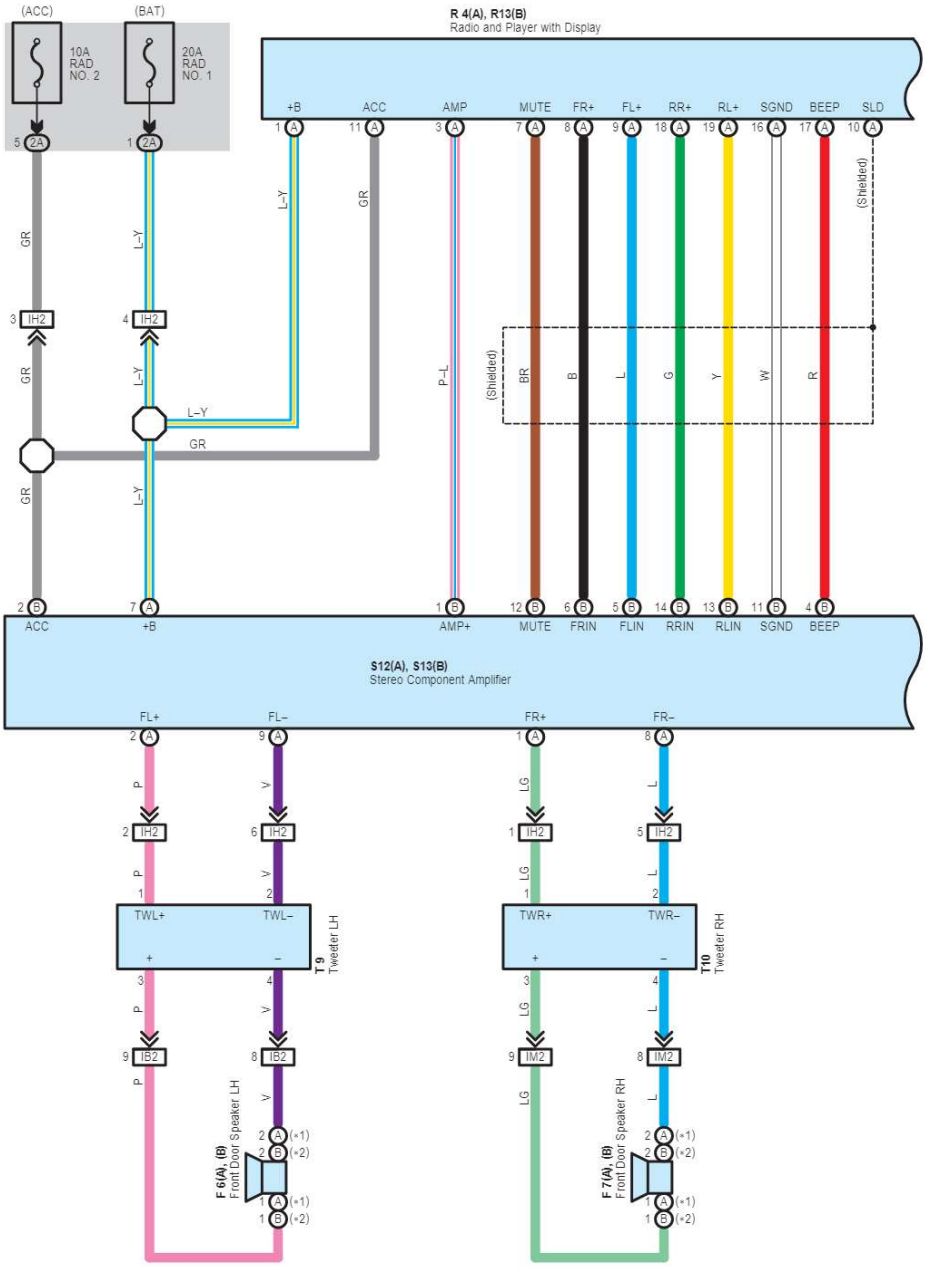
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF4	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IH1	50	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument 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

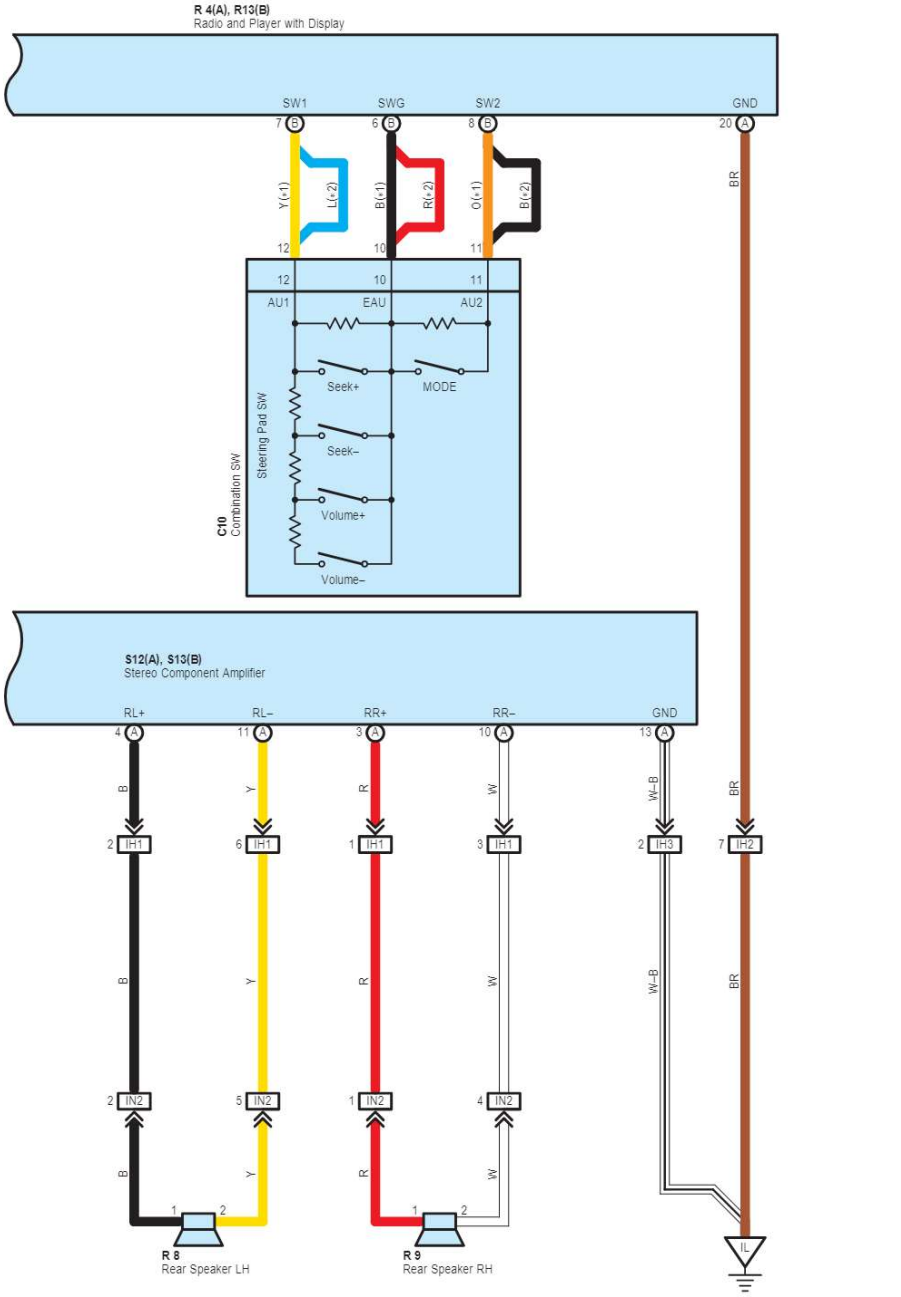
Code	See Page	Ground Points Location
II	50	Cowl Side Panel LH
IL	50	Instrument Panel Brace RH

* 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



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)

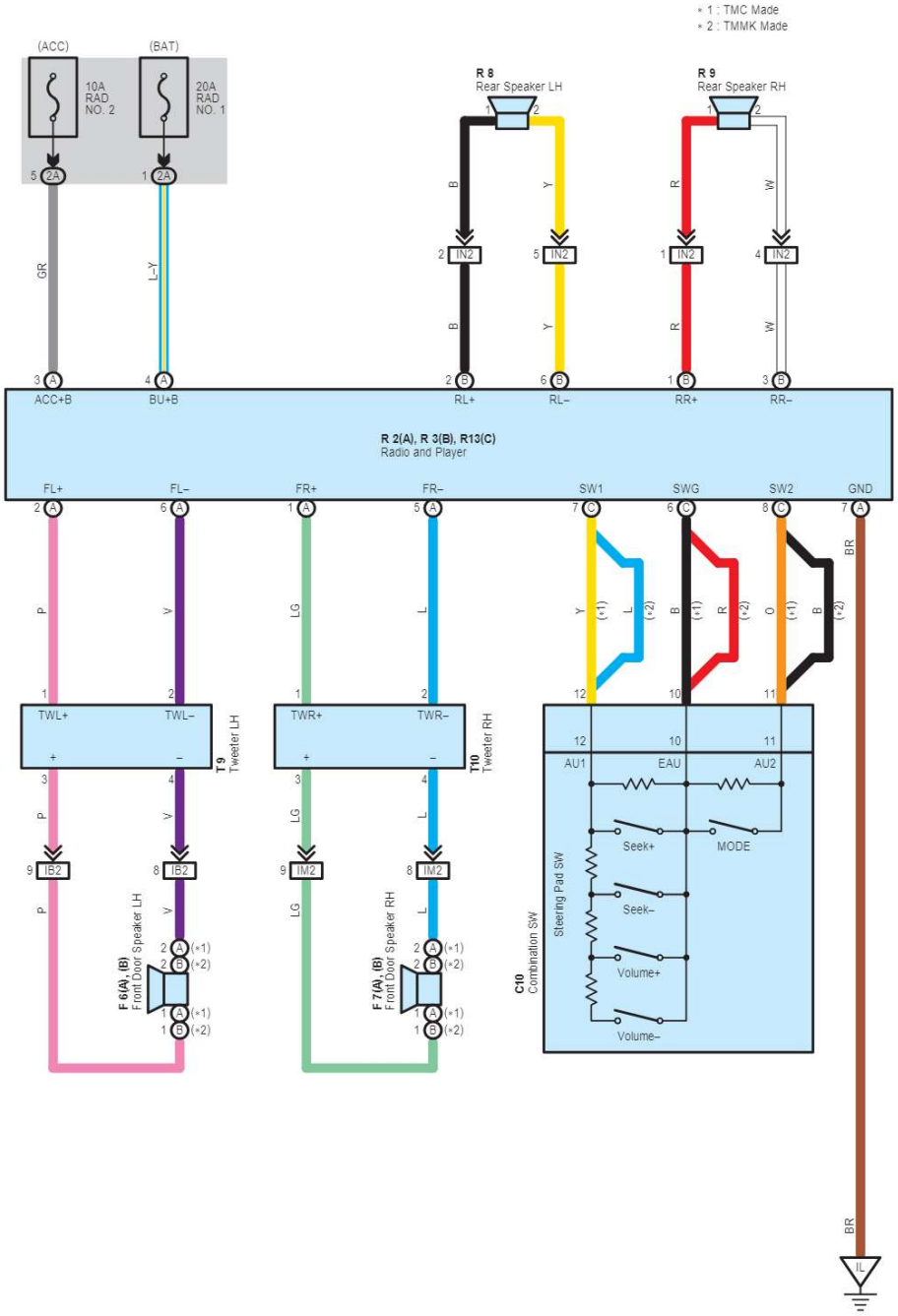
▭ : **Connector Joining Wire Harness and Wire Harness**

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



○ : **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**

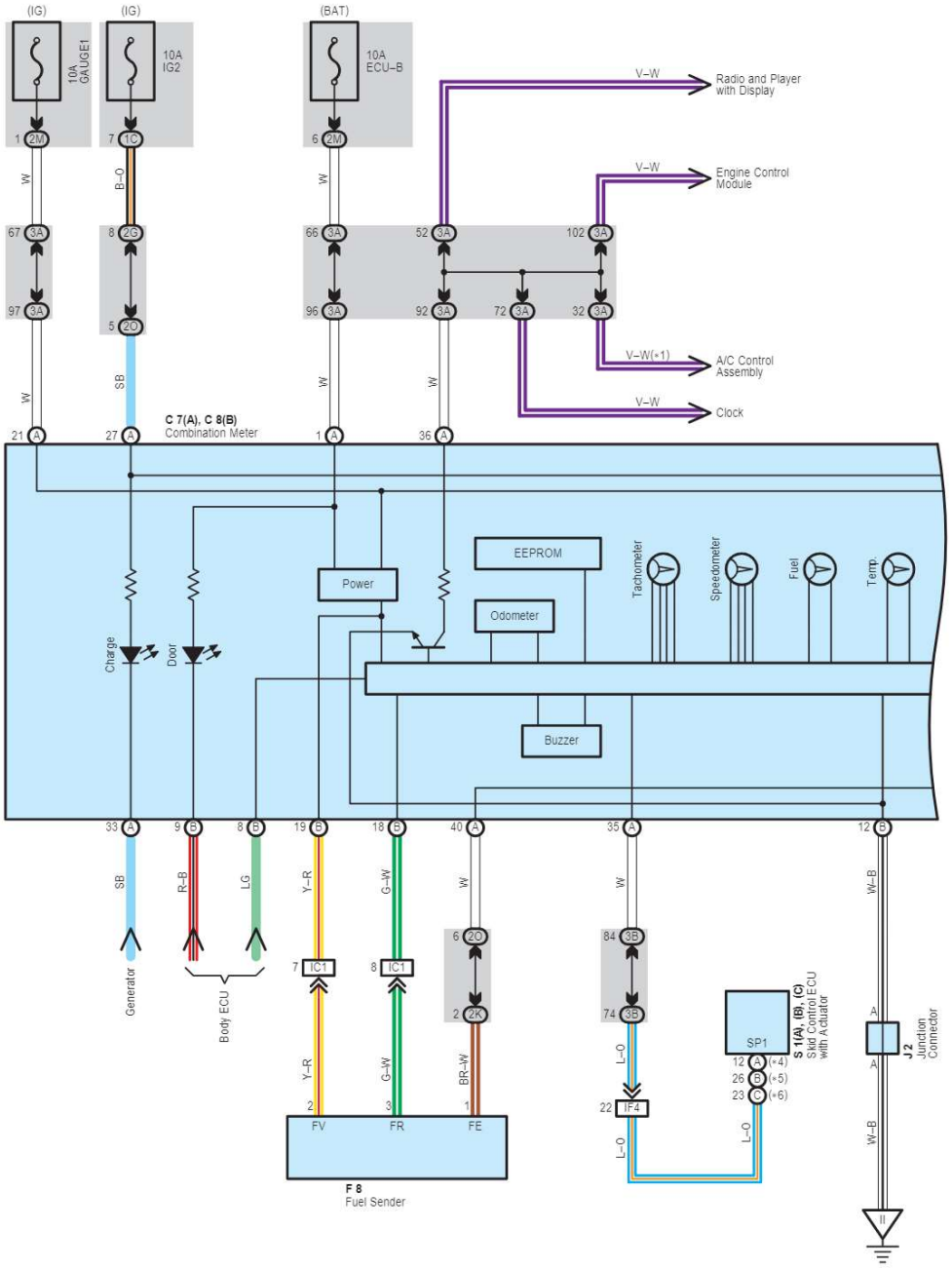
Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	28	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

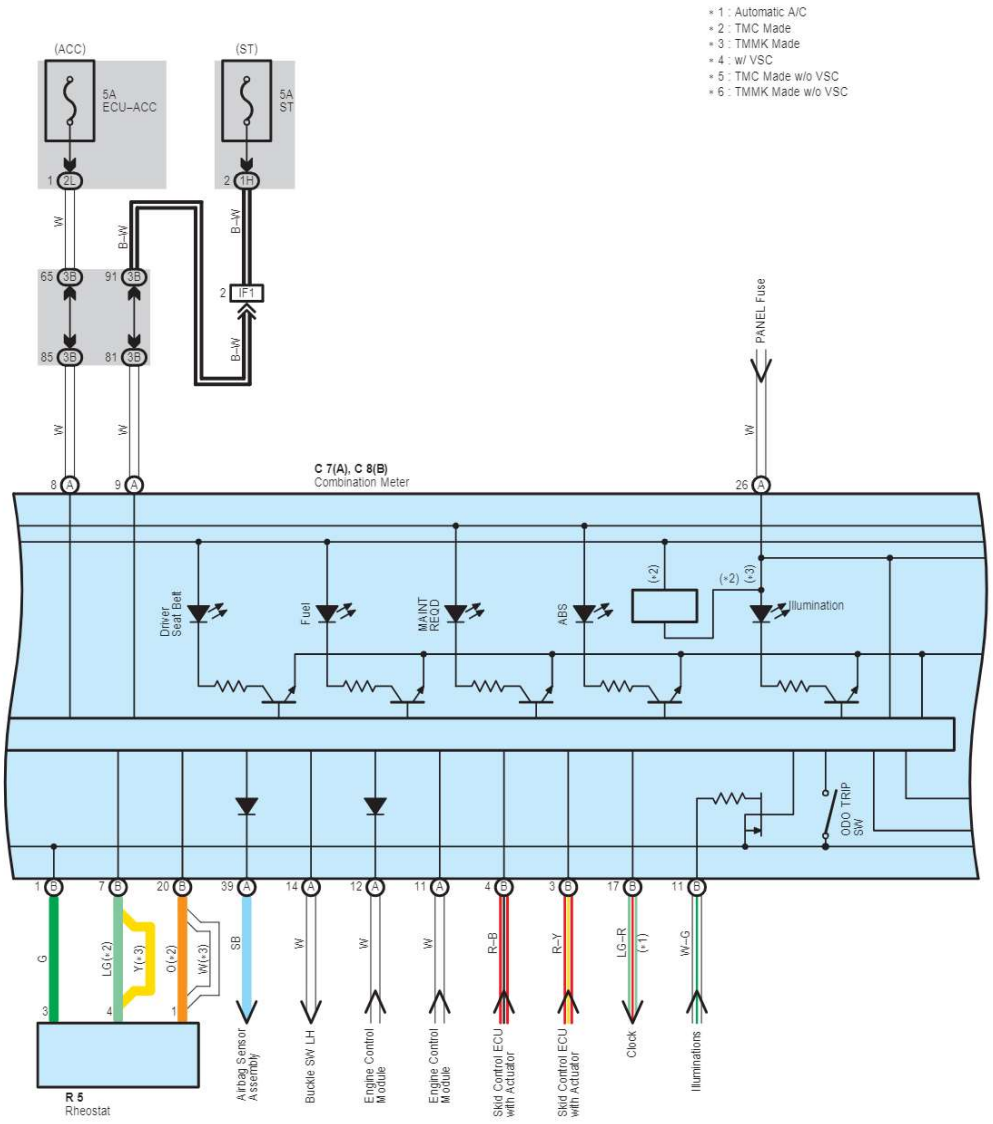
▭ : **Connector Joining Wire Harness and Wire Harness**

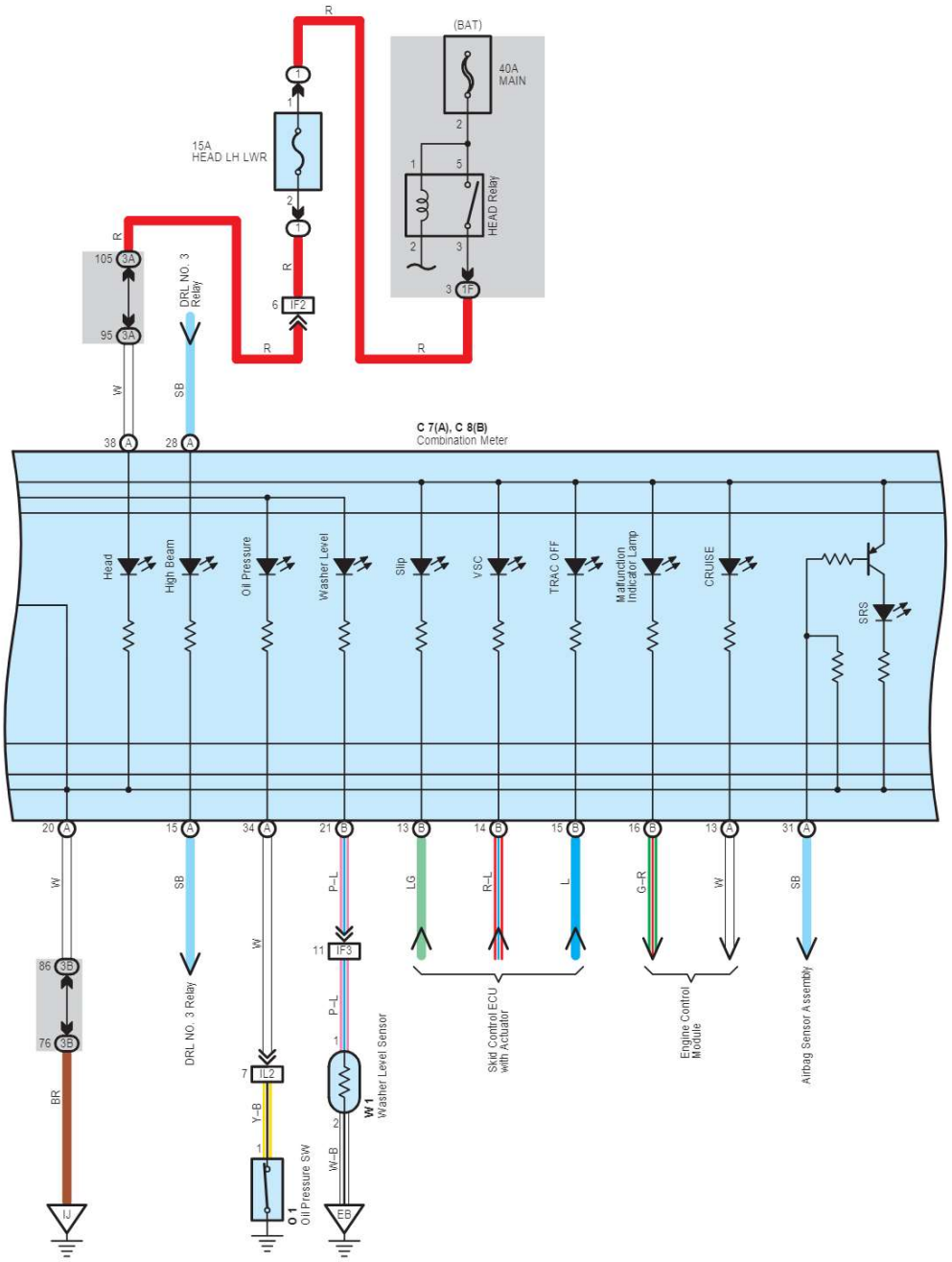
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IN2	51	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

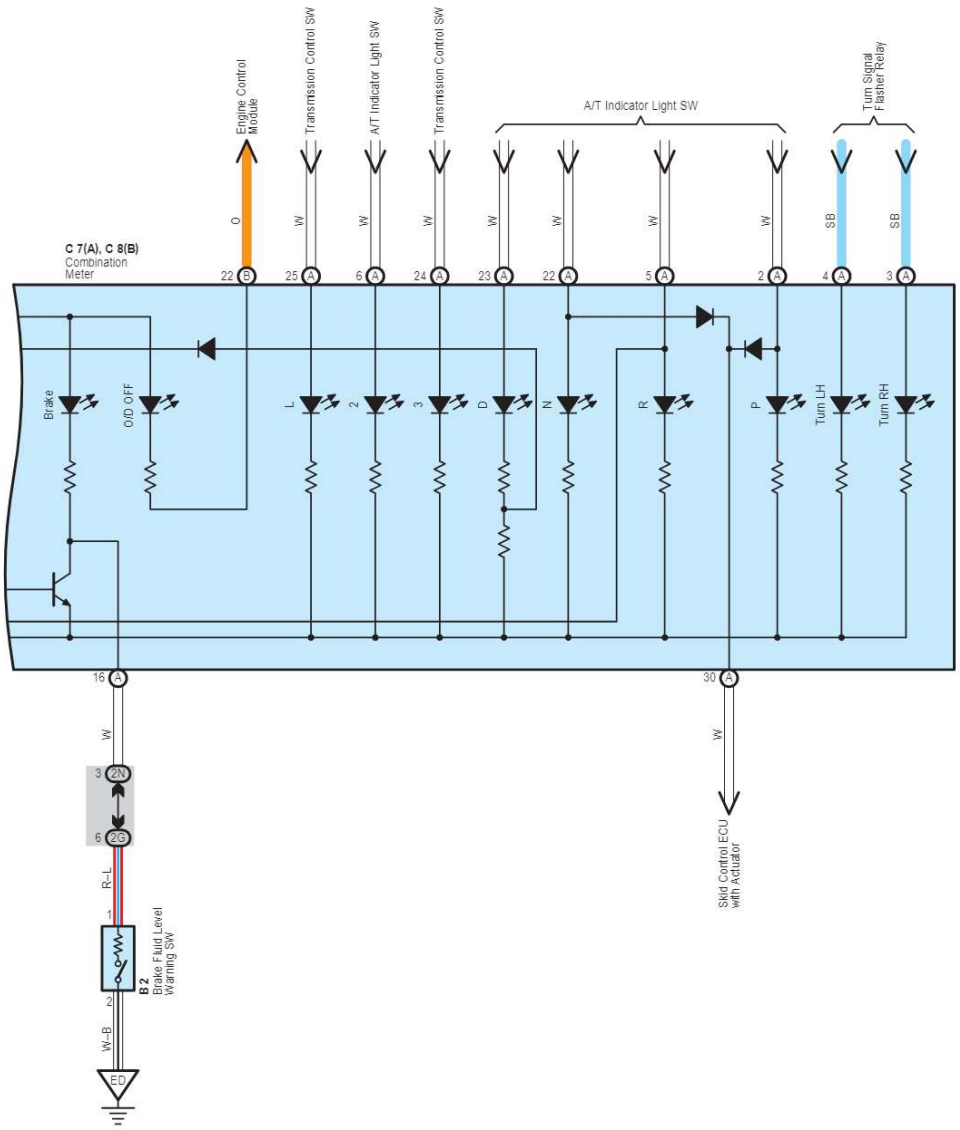
▽ : **Ground Points**

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


(IG)
10A GAUGE1
(IG)
10A IG2
(BAT)
10A ECU-B
V-W
Radio and Player with Display
V-W
Engine Control Module
V-W(*1)
A/C Control Assembly
V-W
Clock
C 7(A), C 8(B)
Combination Meter
EEPROM
Power
Odometer
Tachometer
Speedometer
Fuel
Temp.
Charge
Door
Buzzer
Generator
Body ECU
F 8
Fuel Sender
S 1(A), (B), (C)
Skid Control ECU with Actuator
SP1
J2
Junction Connector


* 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
(ACC)
(ST)
5A ECU-ACC
5A ST
PANEL Fuse
C 7(A), C 8(B)
Combination Meter
Driver Seat Belt
Fuel
MAINT REQD
ABS
Illumination
ODO TRIP SW
R 5
Rheostat
Airbag Sensor Assembly
Buckle SW LH
Engine Control Module
Engine Control Module
Skid Control ECU with Actuator
Skid Control ECU with Actuator
Clock
Illuminations


(BAT)
40A
MAIN
HEAD Relay
15A
HEAD LH LWR
DRL NO. 3
Relay
IF2
IF3
C 7(A), C 8(B)
Combination Meter
Head
High Beam
Oil Pressure
Washer Level
Slip
VSC
TRAC OFF
Malfunction
Indicator Lamp
CRUISE
SRS
DRL NO. 3 Relay
Oil Pressure SW
Washer Level Sensor
W1
Skid Control ECU
with Actuator
Engine Control
Module
Airbag Sensor Assembly


Engine Control Module
Transmission Control SW
A/T Indicator Light SW
Transmission Control SW
A/T Indicator Light SW
Turn Signal Flasher Relay
C 7(A), C 8(B)
Combination Meter
Brake
O/D OFF
L
2
3
D
N
R
P
Turn LH
Turn RH
Skid Control ECU with Actuator
B 2
Brake Fluid Level Warning SW
ED

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

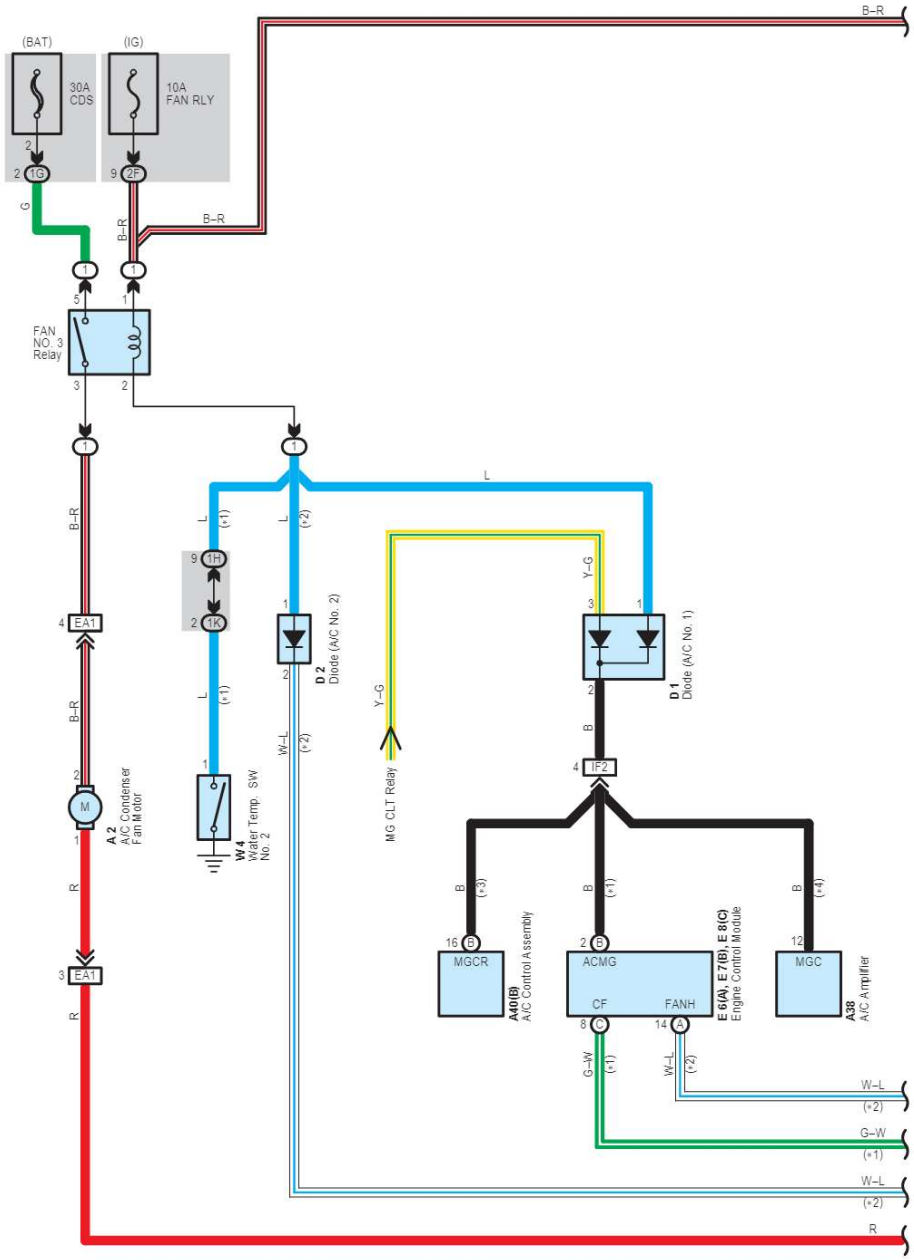
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	50	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IF1	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF2		
IF3		
IF4		
IL2	51	Engine Wire and Instrument Panel Wire (Behind the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

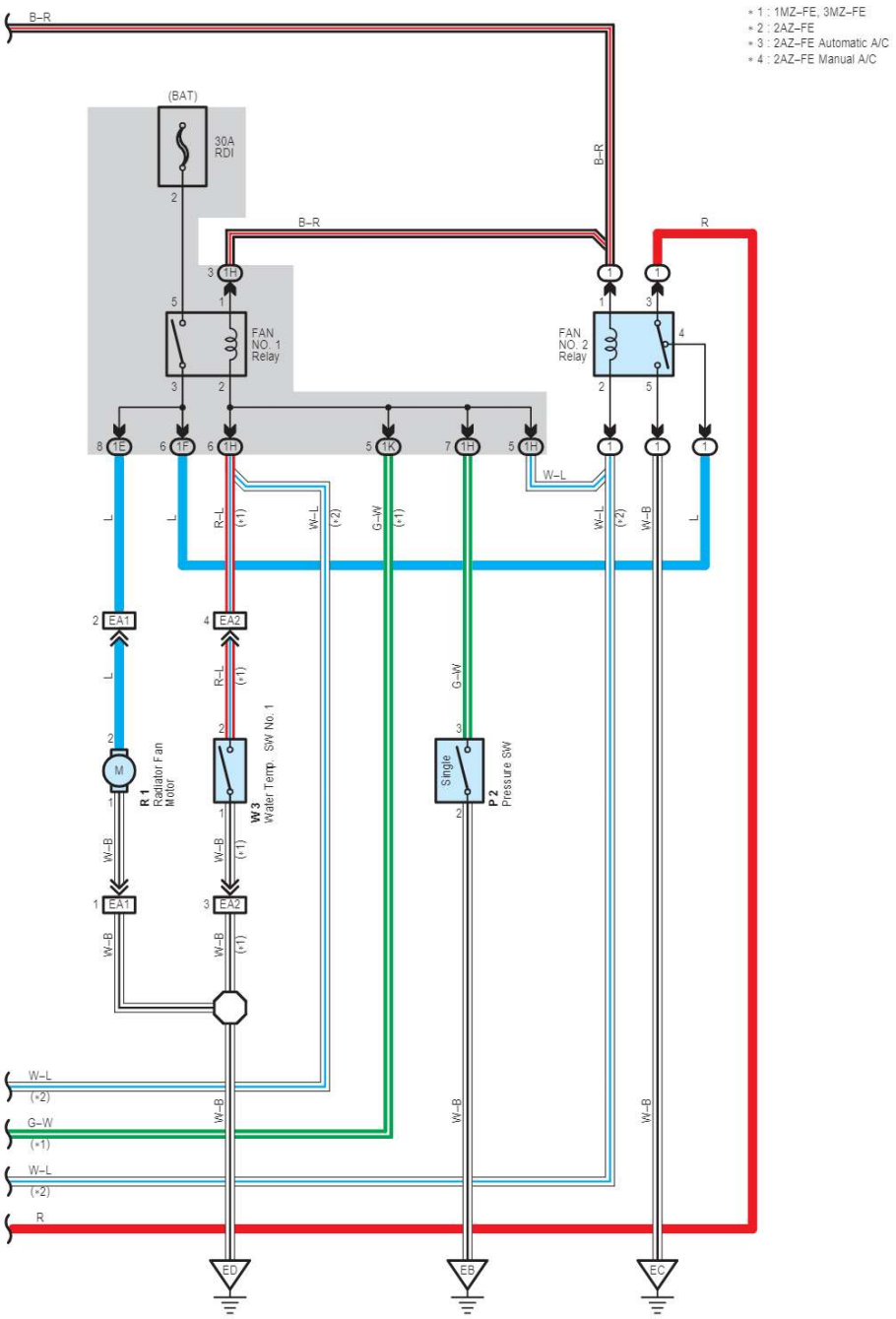
: Ground Points

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




* 1 : 1MZ–FE, 3MZ–FE
* 2 : 2AZ–FE
* 3 : 2AZ–FE Automatic A/C
* 4 : 2AZ–FE Manual A/C
(BAT)
30A RDI
B–R
R
FAN NO. 1 Relay
FAN NO. 2 Relay
W–L
L
R–L
G–W
W–B
R 1 Radiator Fan Motor
W3 Water Temp. SW No. 1
P 2 Pressure SW
Single
E6
E8
E9
E10

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	39 (*1)
	40 (*2)	E6 A	42		41 (*2)
A38	42	E7 B	42	W3	39 (*1)
A40 B	42	E8 C	42	W4	39 (*1)
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)

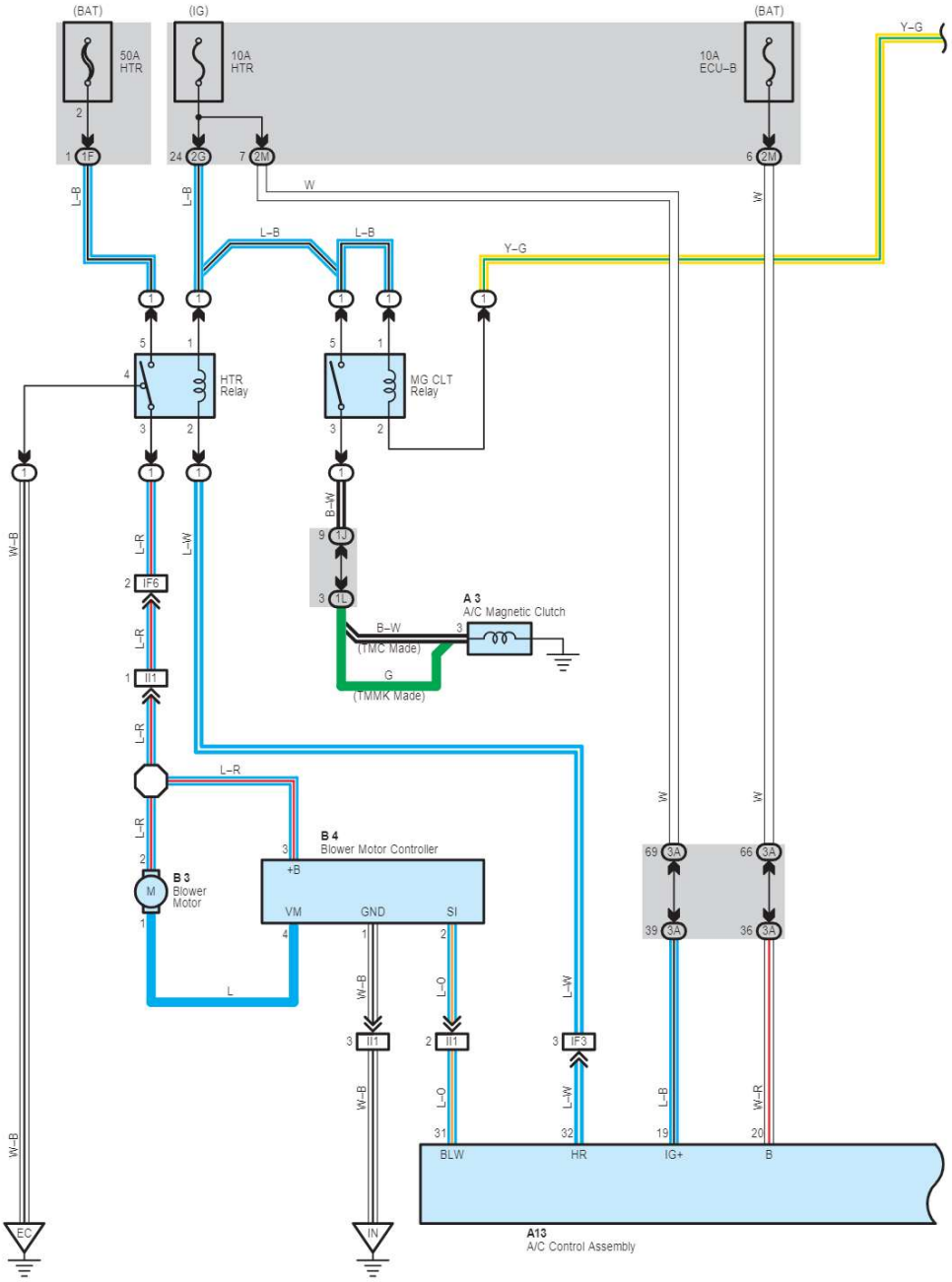
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

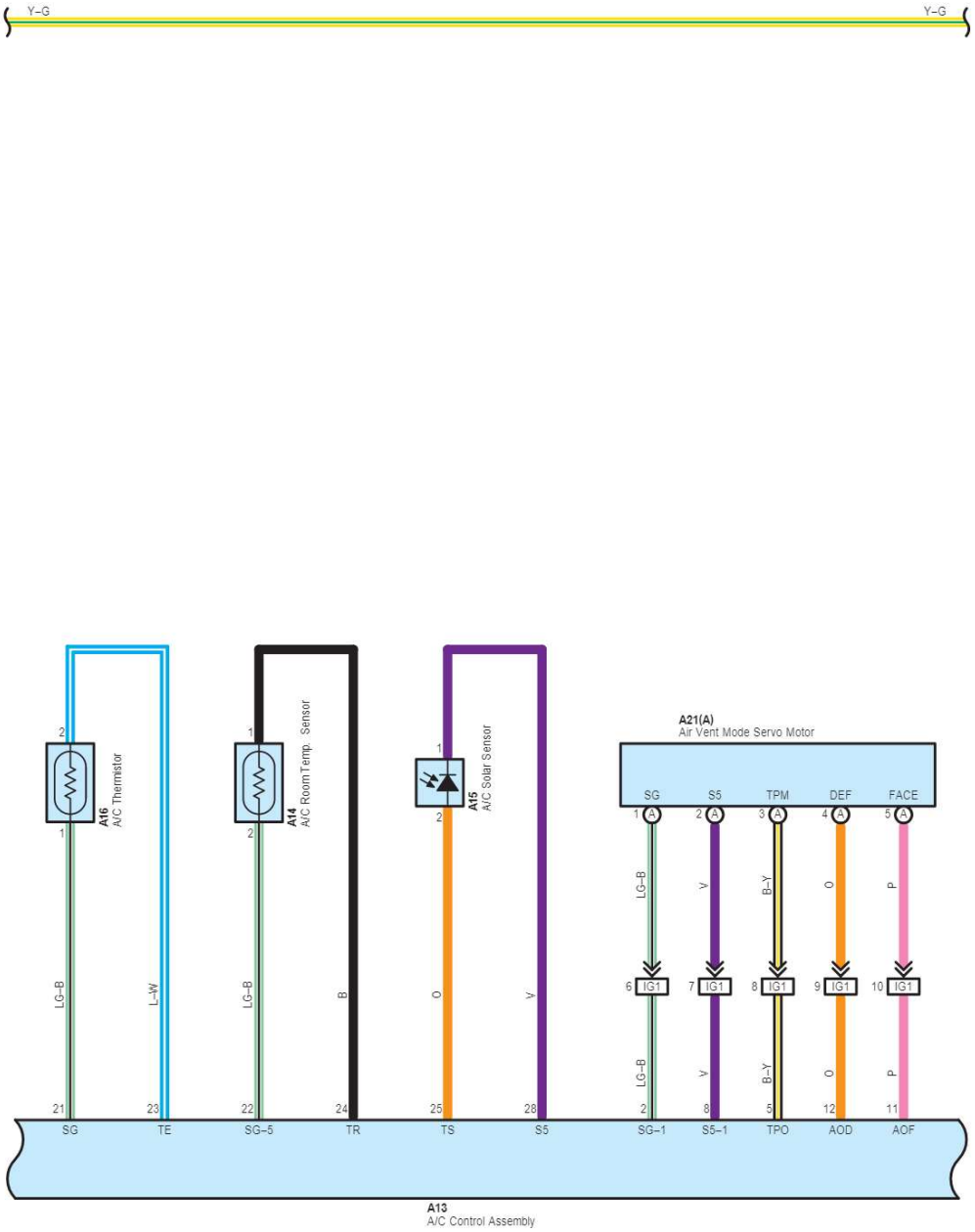
Radiator Fan and Condenser Fan

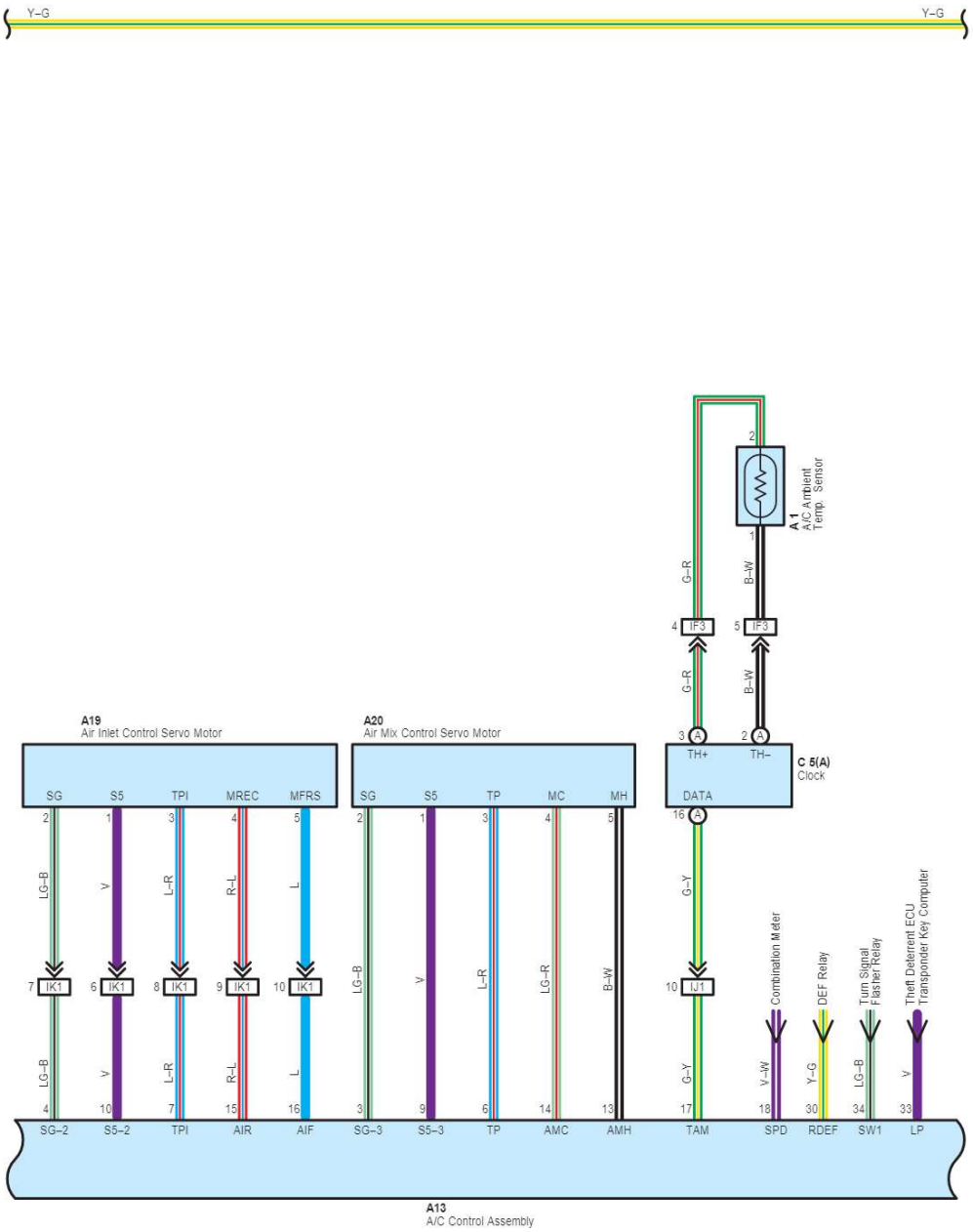
▽ : **Ground Points**

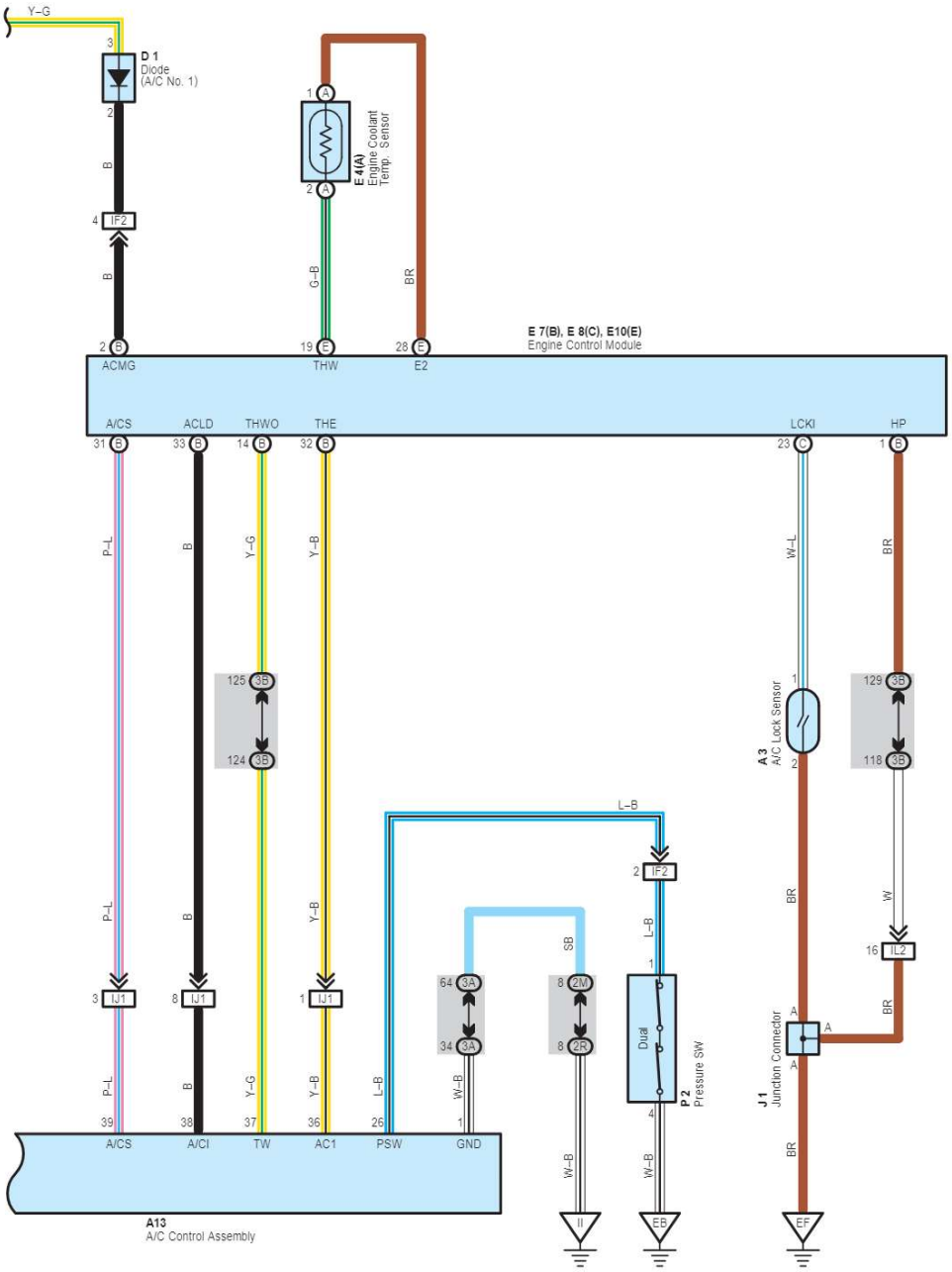
Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
ED	48 (*1)	
	49 (*2)	

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


(BAT)
(IG)
(BAT)
50A HTR
10A HTR
10A ECU–B
Y–G
W
L–B
HTR Relay
MG CLT Relay
B–W
L–R
L–W
W–B
A 3
A/C Magnetic Clutch
(TMC Made)
G
(TMMK Made)
B 4
Blower Motor Controller
+B
VM
GND
SI
B 3
Blower Motor
L
L–O
W–R
BLW
HR
IG+
B
A13
A/C Control Assembly
EC
IN


Y–G
Y–G
A16
A/C Thermistor
A14
A/C Room Temp. Sensor
A15
A/C Solar Sensor
A21(A)
Air Vent Mode Servo Motor
SG
S5
TPM
DEF
FACE
LG–B
L–W
LG–B
B
O
V
LG–B
V
B–Y
O
P
IG1
LG–B
V
B–Y
O
P
21
23
22
24
25
28
2
8
5
12
11
SG
TE
SG–5
TR
TS
S5
SG–1
S5–1
TPO
AOD
AOF
A13
A/C Control Assembly


Y–G
Y–G
A1
A/C Ambient Temp. Sensor
G–R
B–W
4 IF3
5 IF3
A19
Air Inlet Control Servo Motor
A20
Air Mix Control Servo Motor
C 5(A)
Clock
TH+
TH–
DATA
SG
S5
TPI
MREC
MFRS
TP
MC
MH
LG–B
V
L–R
R–L
L
G–Y
7 IK1
6 IK1
8 IK1
9 IK1
10 IK1
10 IJ1
Combination Meter
DEF Relay
Turn Signal Flasher Relay
Theft Deterrent ECU
Transponder Key Computer
V–W
Y–G
LG–B
V
SG–2
S5–2
TPI
AIR
AIF
SG–3
S5–3
TP
AMC
AMH
TAM
SPD
RDEF
SW1
LP
A13
A/C Control Assembly


Y–G
D 1
Diode
(A/C No. 1)
IF2
E 4(A)
Engine Coolant
Temp. Sensor
G–B
BR
E 7(B), E 8(C), E10(E)
Engine Control Module
ACMG
THW
E2
A/CS
ACLD
THWO
THE
LCKI
HP
P–L
B
Y–G
Y–B
W–L
BR
125
124
129
118
A3
A/C Lock Sensor
L–B
SB
IJ1
IL2
W
64
34
8
2M
2R
Dual
P 2
Pressure SW
J1
Junction Connector
W–B
A/CS
A/CI
TW
AC1
PSW
GND
A13
A/C Control Assembly
II
EB
EF

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, out side 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		

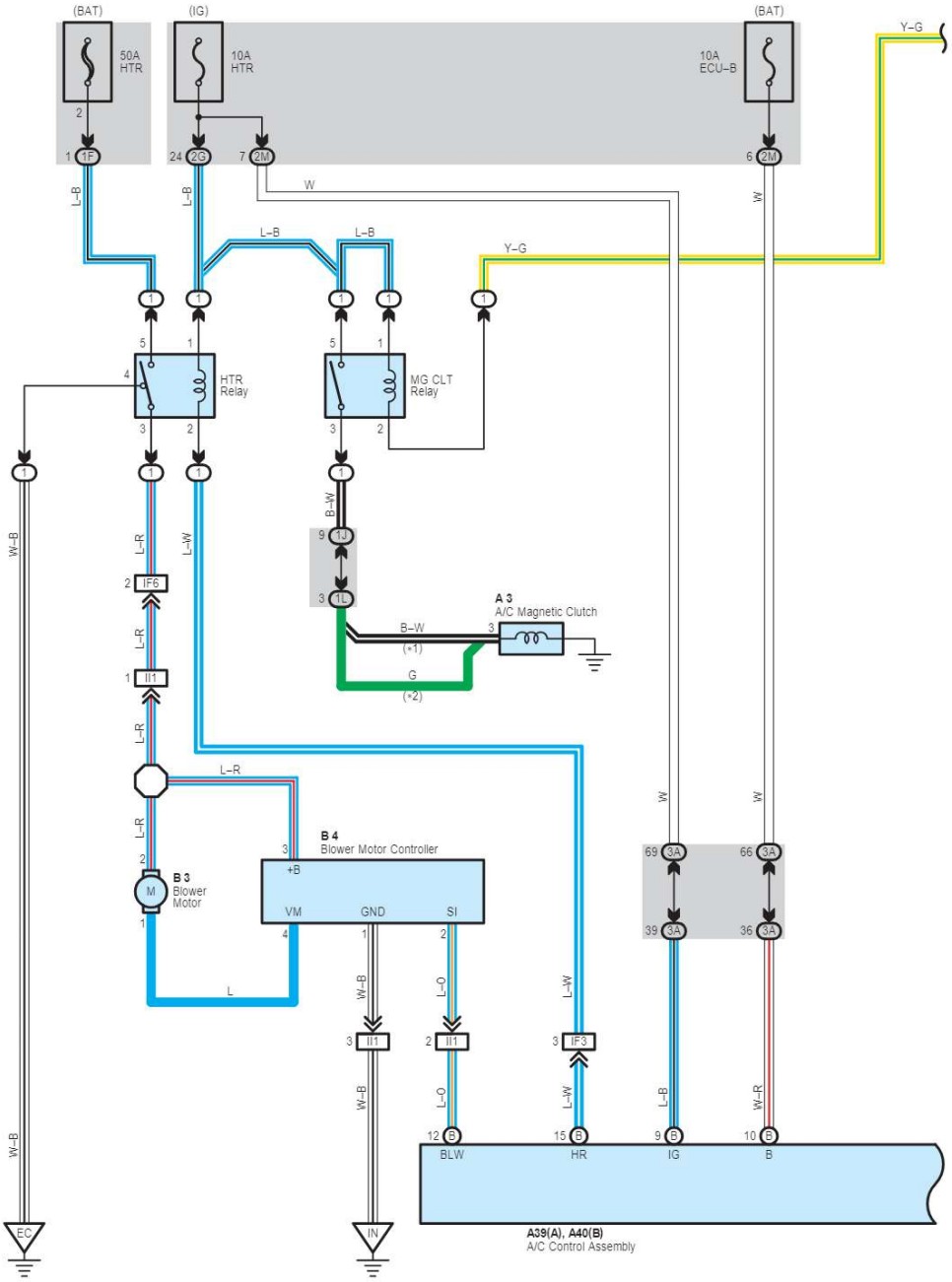
: **Connector Joining Wire Harness and Wire Harness**

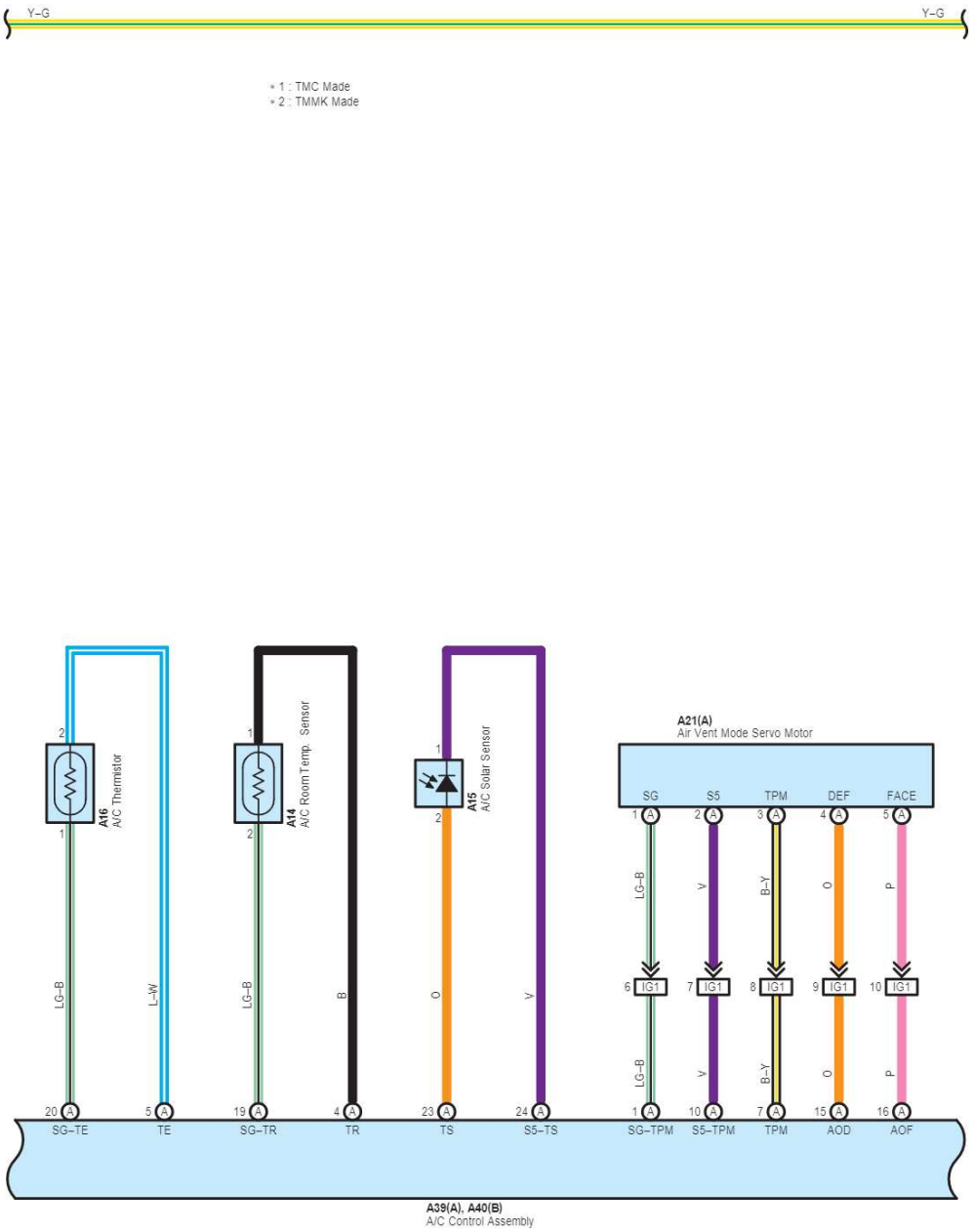
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II1	51	Instrument Panel Wire and Instrument 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)

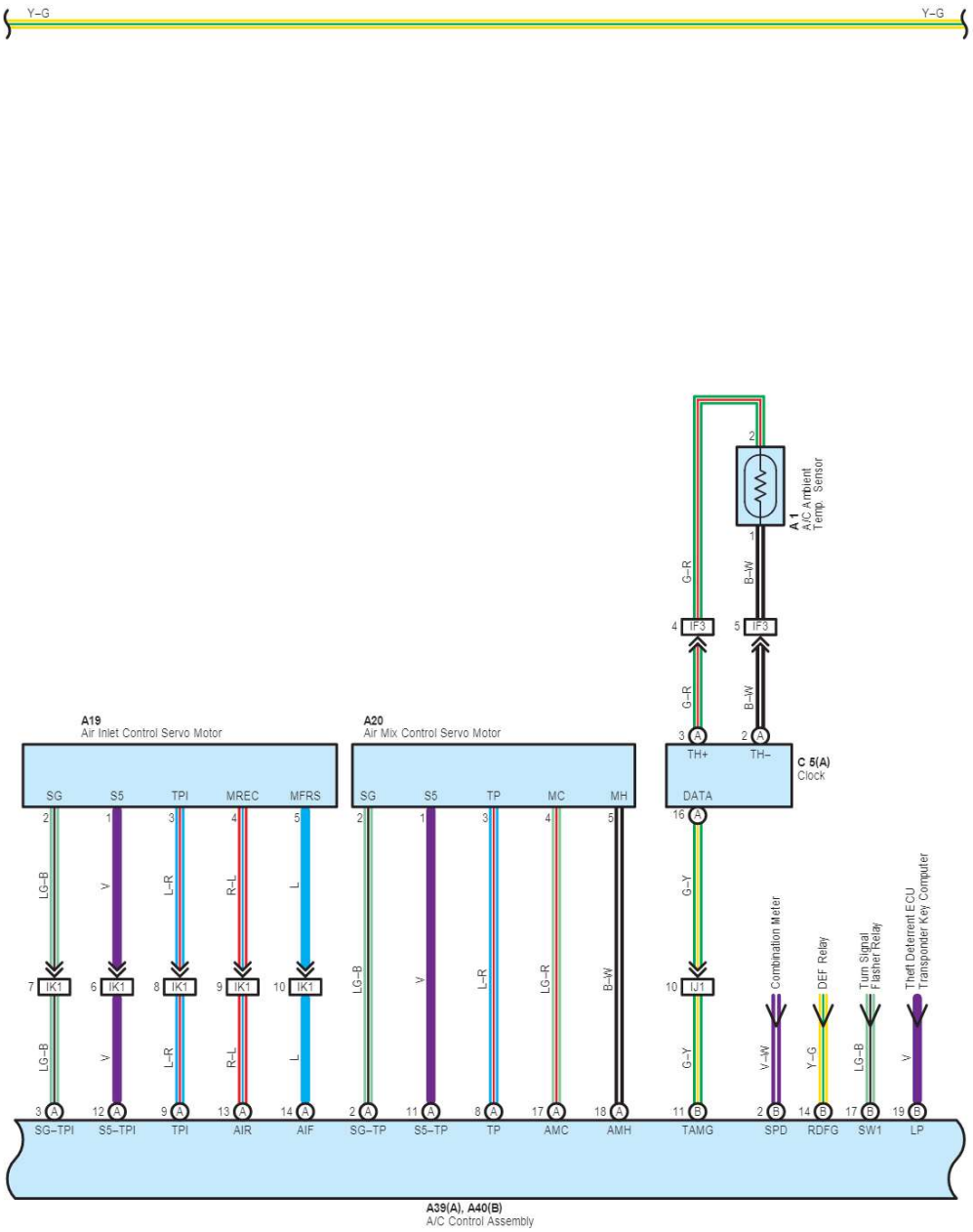
: **Ground Points**

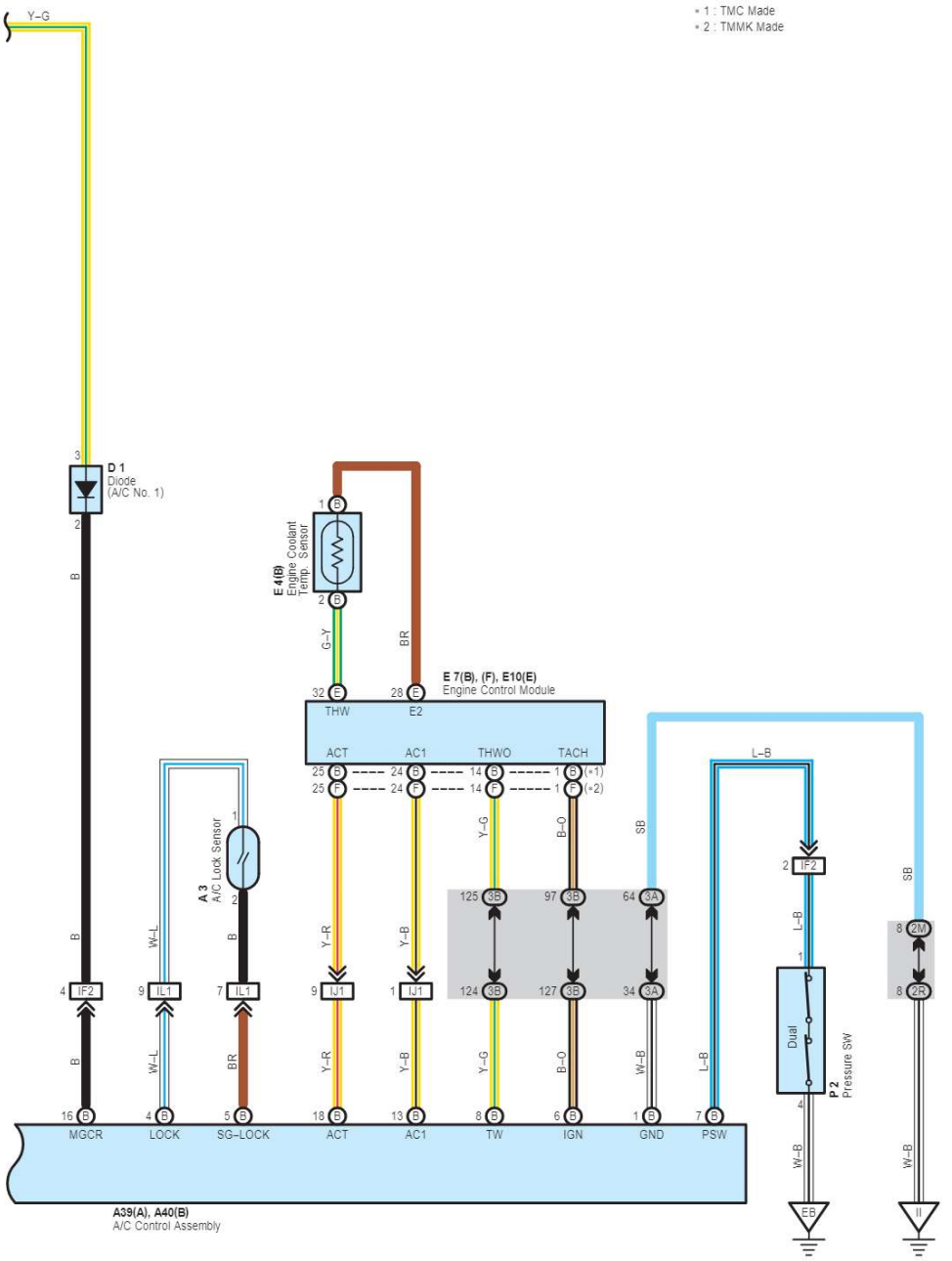
Code	See Page	Ground Points Location
EB	48 (*1)	Right Fender
EC	48 (*1)	Left Fender
EF	48 (*1)	Right Side of Cylinder Head
II	50	Cowl Side Panel LH
IN	50	Instrument Panel Reinforcement RH

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


(BAT)
(IG)
(BAT)
50A HTR
10A HTR
10A ECU–B
Y–G
L–B
W
HTR Relay
MG CLT Relay
B–W
L–R
L–W
W–B
A 3
A/C Magnetic Clutch
(*1)
G
(*2)
B 4
Blower Motor Controller
+B
VM
GND
SI
B 3
Blower Motor
L
L–O
W–R
BLW
HR
IG
B
A39(A), A40(B)
A/C Control Assembly
EC
IN


Y–G
Y–G
* 1 : TMC Made
* 2 : TMMK Made
A16
A/C Thermistor
A14
A/C Room Temp. Sensor
A15
A/C Solar Sensor
A21(A)
Air Vent Mode Servo Motor
SG
S5
TPM
DEF
FACE
LG–B
L–W
B
O
V
B–Y
P
IG1
SG–TE
TE
SG–TR
TR
TS
S5–TS
SG–TPM
S5–TPM
TPM
AOD
AOF
A39(A), A40(B)
A/C Control Assembly


Y–G
Y–G
A1
A/C Ambient Temp. Sensor
G–R
B–W
4 IF3
5 IF3
A19
Air Inlet Control Servo Motor
A20
Air Mix Control Servo Motor
C 5(A)
Clock
SG
S5
TPI
MREC
MFRS
TP
MC
MH
TH+
TH–
DATA
LG–B
V
L–R
R–L
L
G–Y
7 IK1
6 IK1
8 IK1
9 IK1
10 IK1
10 IJ1
3 A
12 A
9 A
13 A
14 A
2 A
11 A
8 A
17 A
18 A
11 B
Combination Meter
DEF Relay
Turn Signal Flasher Relay
Theft Deterrent ECU
Transponder Key Computer
V–W
Y–G
LG–B
V
2 B
14 B
17 B
19 B
SG–TPI
S5–TPI
TPI
AIR
AIF
SG–TP
S5–TP
TP
AMC
AMH
TAMG
SPD
RDFG
SW1
LP
A39(A), A40(B)
A/C Control Assembly


* 1 : TMC Made
* 2 : TMMK Made
Y–G
D 1
Diode
(A/C No. 1)
E 4(B)
Engine Coolant
Temp. Sensor
G–Y
BR
E 7(B), (F), E10(E)
Engine Control Module
THW
E2
ACT
AC1
THWO
TACH
(*1)
(*2)
A 3
A/C Lock Sensor
W–L
Y–R
Y–B
Y–G
B–O
SB
L–B
W–B
B
IF2
IL1
IJ1
2M
2R
3B
3A
Dual
P 2
Pressure SW
MGCR
LOCK
SG–LOCK
ACT
AC1
TW
IGN
GND
PSW
E6
A39(A), A40(B)
A/C Control Assembly

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, out side 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		

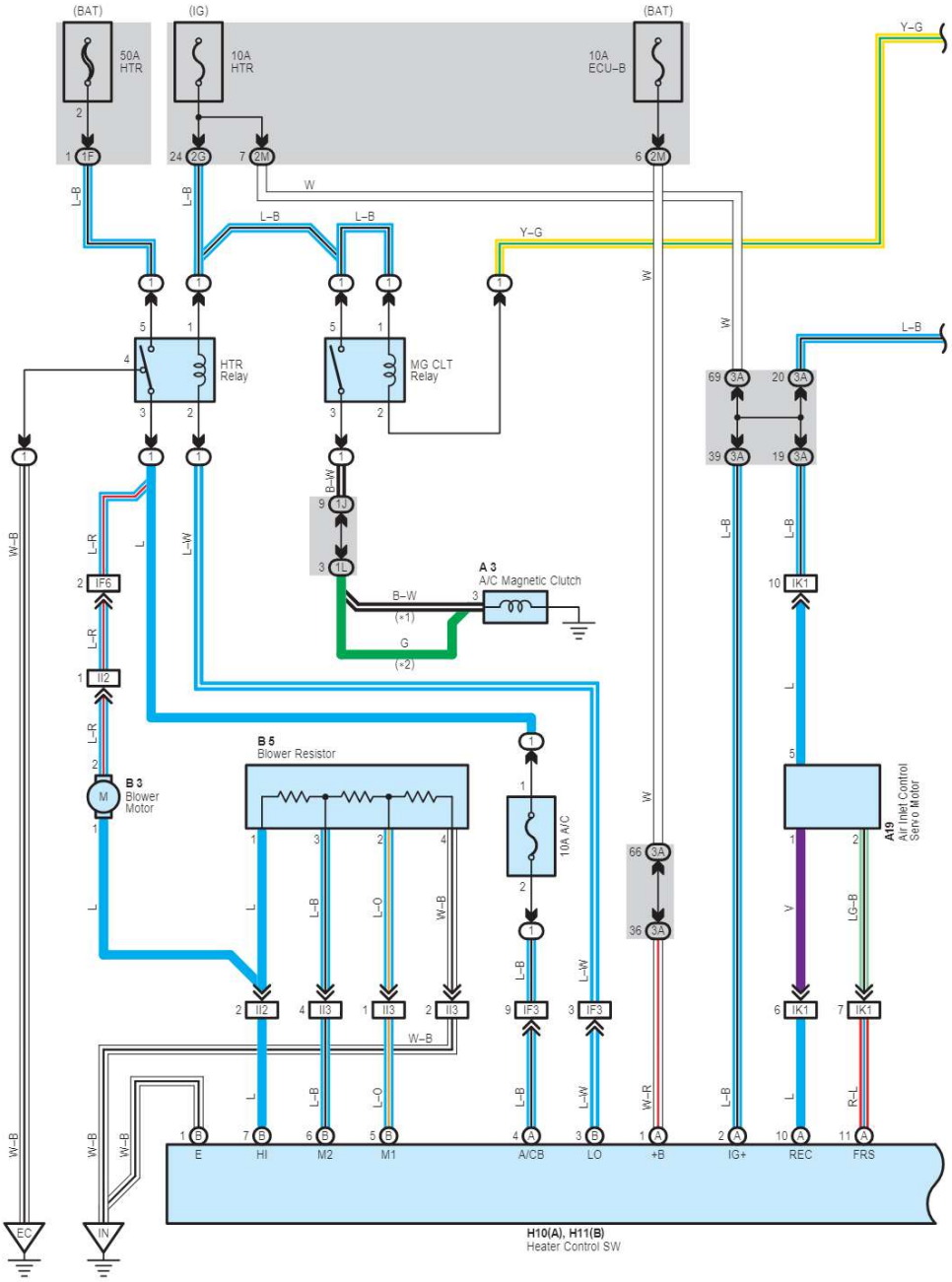
: **Connector Joining Wire Harness and Wire Harness**

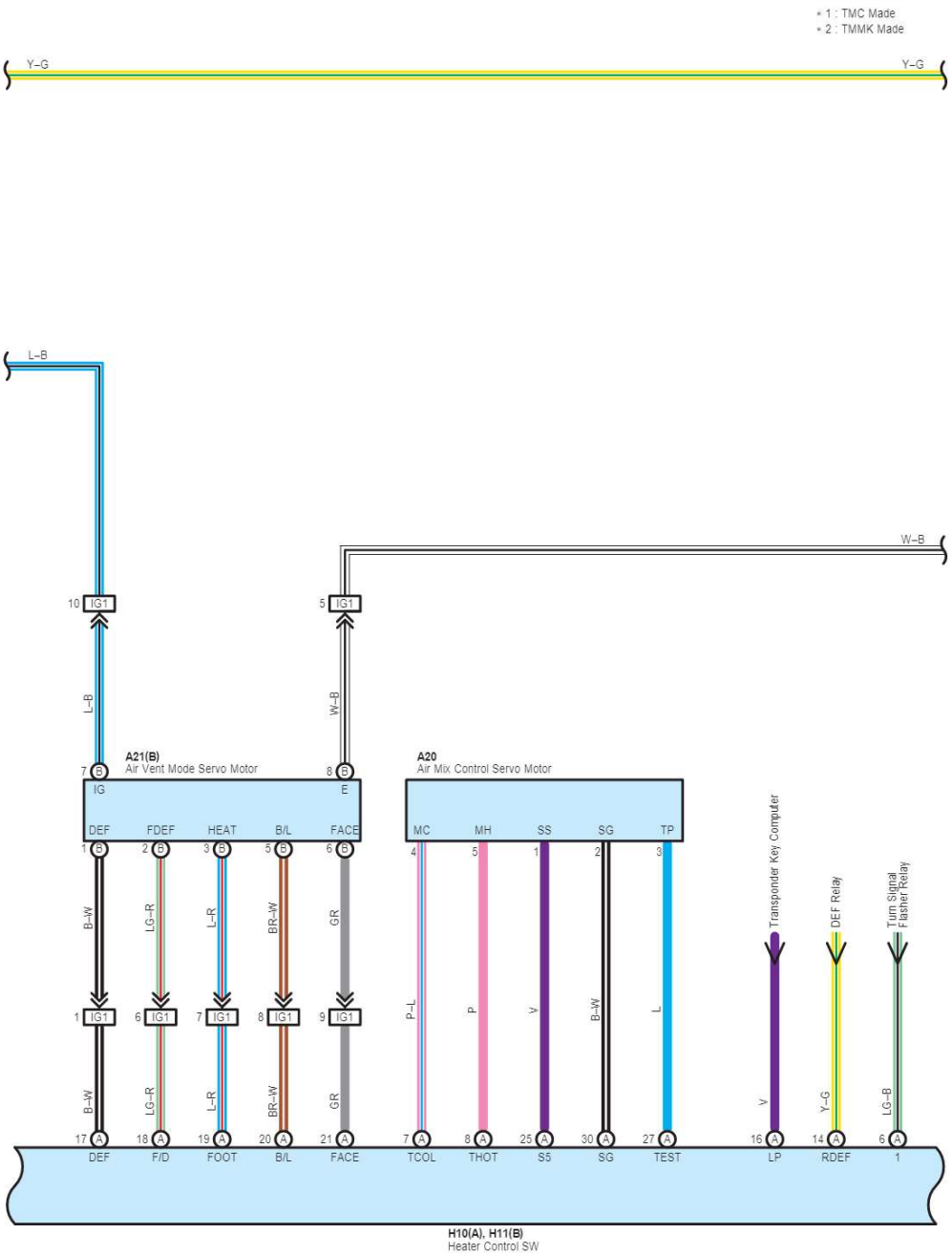
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II1	51	Instrument Panel Wire and Instrument 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)

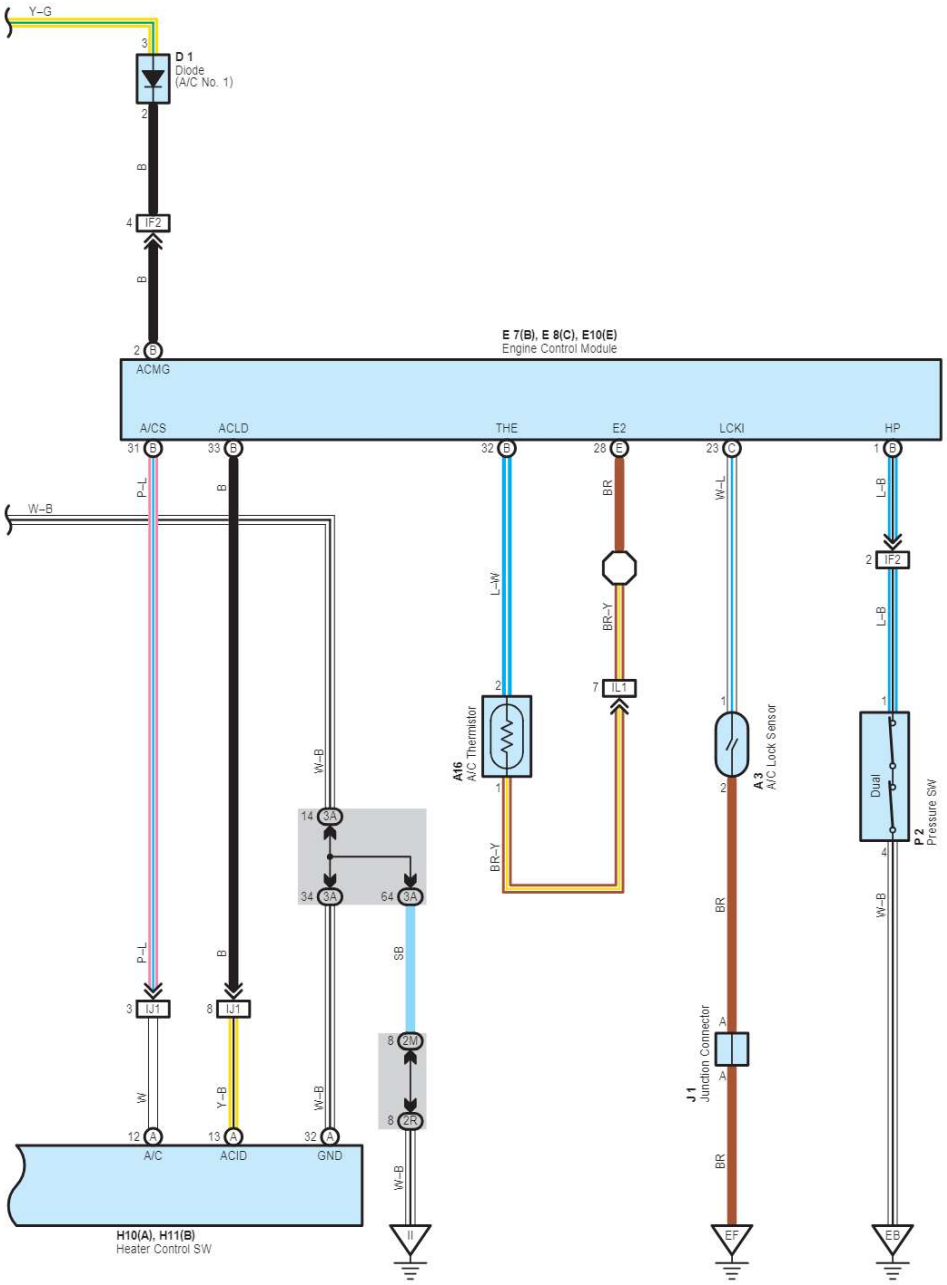
: **Ground Points**

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


(BAT)
(IG)
(BAT)
50A HTR
10A HTR
10A ECU–B
Y–G
HTR Relay
MG CLT Relay
A 3
A/C Magnetic Clutch
B–W
(*1)
G
(*2)
B 5
Blower Resistor
B 3
Blower Motor
10A A/C
A19
Air Inlet Control Servo Motor
E
HI
M2
M1
A/CB
LO
+B
IG+
REC
FRS
H10(A), H11(B)
Heater Control SW
EC
IN


* 1 : TMC Made
* 2 : TMMK Made
Y–G
Y–G
L–B
W–B
10 IG1
5 IG1
L–B
W–B
A21(B)
Air Vent Mode Servo Motor
7 B
IG
8 B
E
DEF
FDEF
HEAT
B/L
FACE
1 B
2 B
3 B
5 B
6 B
B–W
LG–R
L–R
BR–W
GR
1 IG1
6 IG1
7 IG1
8 IG1
9 IG1
B–W
LG–R
L–R
BR–W
GR
17 A
18 A
19 A
20 A
21 A
DEF
F/D
FOOT
B/L
FACE
A20
Air Mix Control Servo Motor
MC
MH
SS
SG
TP
4
5
1
2
3
P–L
P
V
B–W
L
7 A
8 A
25 A
30 A
27 A
TCOL
THOT
S5
SG
TEST
Transponder Key Computer
DEF Relay
Turn Signal Flasher Relay
V
Y–G
LG–B
16 A
14 A
6 A
LP
RDEF
1
H10(A), H11(B)
Heater Control SW


Y–G
D 1
Diode
(A/C No. 1)
B
IF2
B
E 7(B), E 8(C), E10(E)
Engine Control Module
ACMG
A/CS
ACLD
THE
E2
LCKI
HP
P–L
B
L–W
BR
W–L
L–B
W–B
BR–Y
IL1
A16
A/C Thermistor
A3
A/C Lock Sensor
Dual
P 2
Pressure SW
IJ1
W
Y–B
SB
2M
2R
A/C
ACID
GND
J 1
Junction Connector
H10(A), H11(B)
Heater Control SW
EF
EB

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

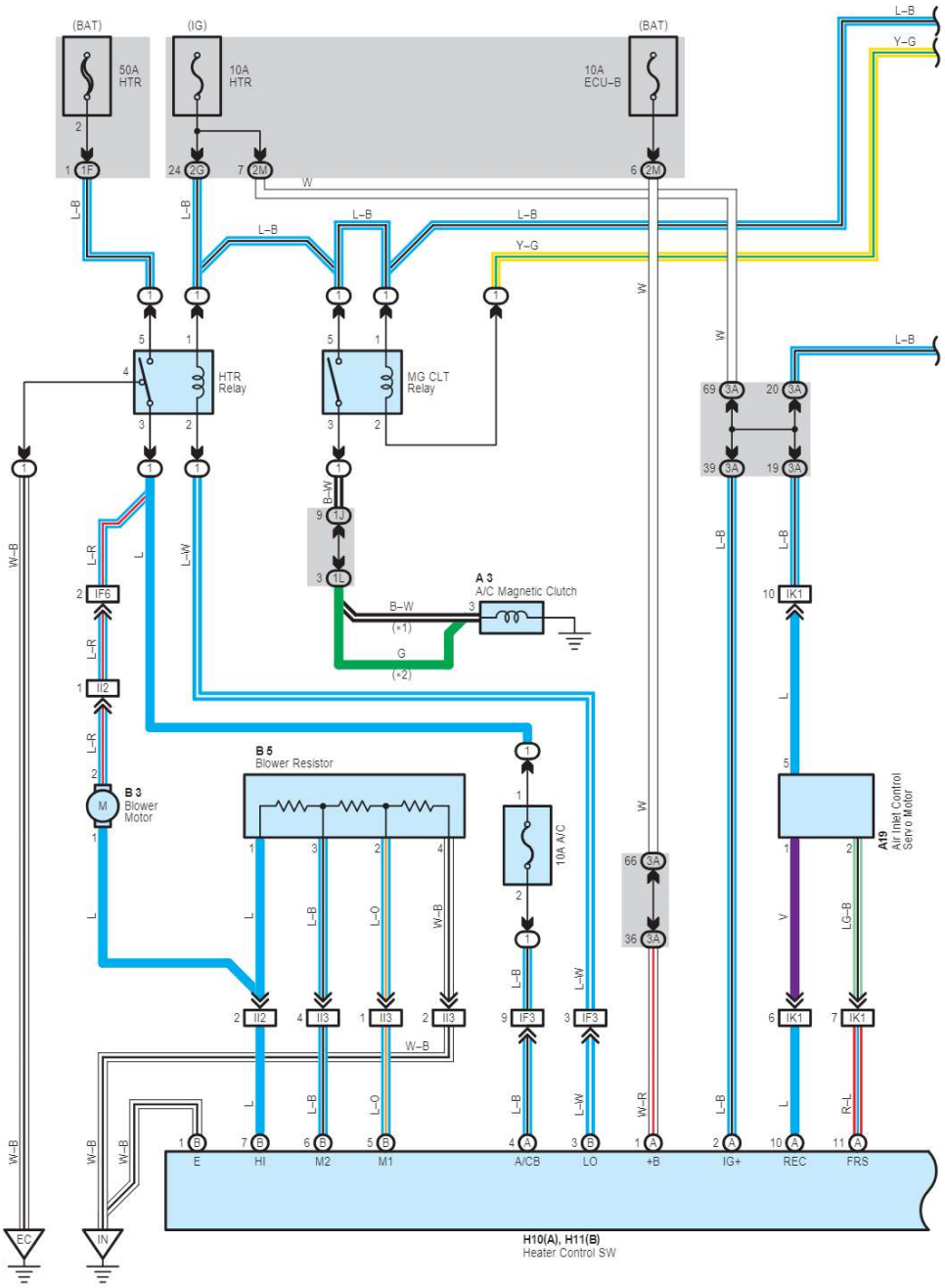
: **Connector Joining Wire Harness and Wire Harness**

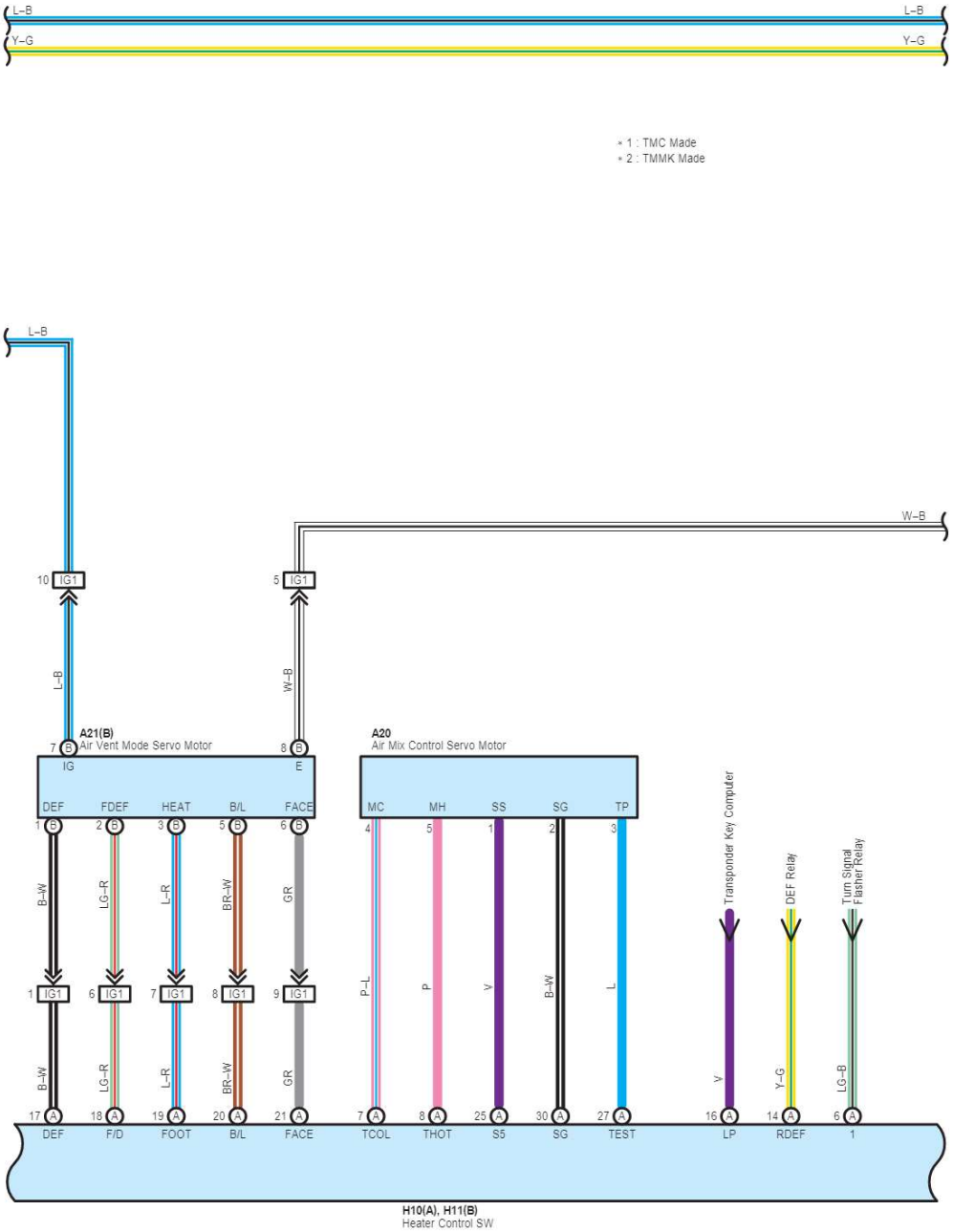
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II2	51	Instrument Panel Wire and Instrument 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)

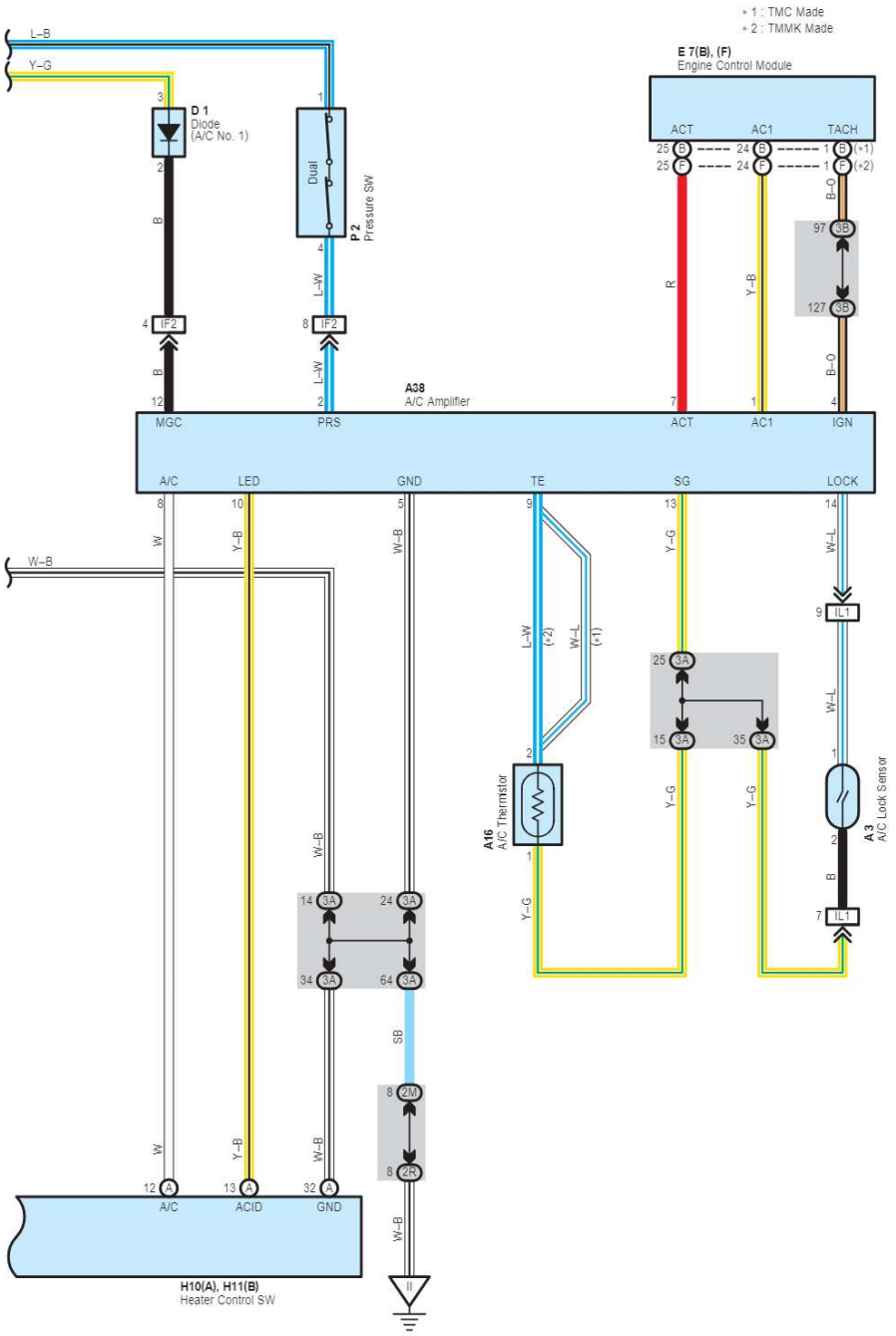
: **Ground Points**

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


(BAT)
50A HTR
(IG)
10A HTR
(BAT)
10A ECU–B
HTR Relay
MG CLT Relay
A 3
A/C Magnetic Clutch
B 5
Blower Resistor
B 3
Blower Motor
10A A/C
A19
Air Inlet Control Servo Motor
H10(A), H11(B)
Heater Control SW
E
HI
M2
M1
A/CB
LO
+B
IG+
REC
FRS
EC
IN


L–B
L–B
Y–G
Y–G
* 1 : TMC Made
* 2 : TMMK Made
L–B
W–B
10 IG1
5 IG1
L–B
W–B
A21(B)
Air Vent Mode Servo Motor
7 B
IG
8 B
E
DEF
FDEF
HEAT
B/L
FACE
1 B
2 B
3 B
5 B
6 B
B–W
LG–R
L–R
BR–W
GR
1 IG1
6 IG1
7 IG1
8 IG1
9 IG1
B–W
LG–R
L–R
BR–W
GR
17 A
18 A
19 A
20 A
21 A
DEF
F/D
FOOT
B/L
FACE
A20
Air Mix Control Servo Motor
MC
MH
SS
SG
TP
4
5
1
2
3
P–L
P
V
B–W
L
7 A
8 A
25 A
30 A
27 A
TCOL
THOT
S5
SG
TEST
Transponder Key Computer
DEF Relay
Turn Signal Flasher Relay
V
Y–G
LG–B
16 A
14 A
6 A
LP
RDEF
1
H10(A), H11(B)
Heater Control SW


* 1 : TMC Made
* 2 : TMMK Made
L–B
Y–G
D 1
Diode
(A/C No. 1)
Dual
P 2
Pressure SW
E 7(B), (F)
Engine Control Module
ACT
AC1
TACH
A38
A/C Amplifier
MGC
PRS
ACT
AC1
IGN
A/C
LED
GND
TE
SG
LOCK
W–B
A16
A/C Thermistor
A3
A/C Lock Sensor
H10(A), H11(B)
Heater Control SW
A/C
ACID
GND

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	42
A16	42	B3	42	H10 A	43
A19	42	B5	42	H11 B	43
A20	42	D1	40 (*2)	P2	41 (*2)
A21 B	42	E7 B	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)
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

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

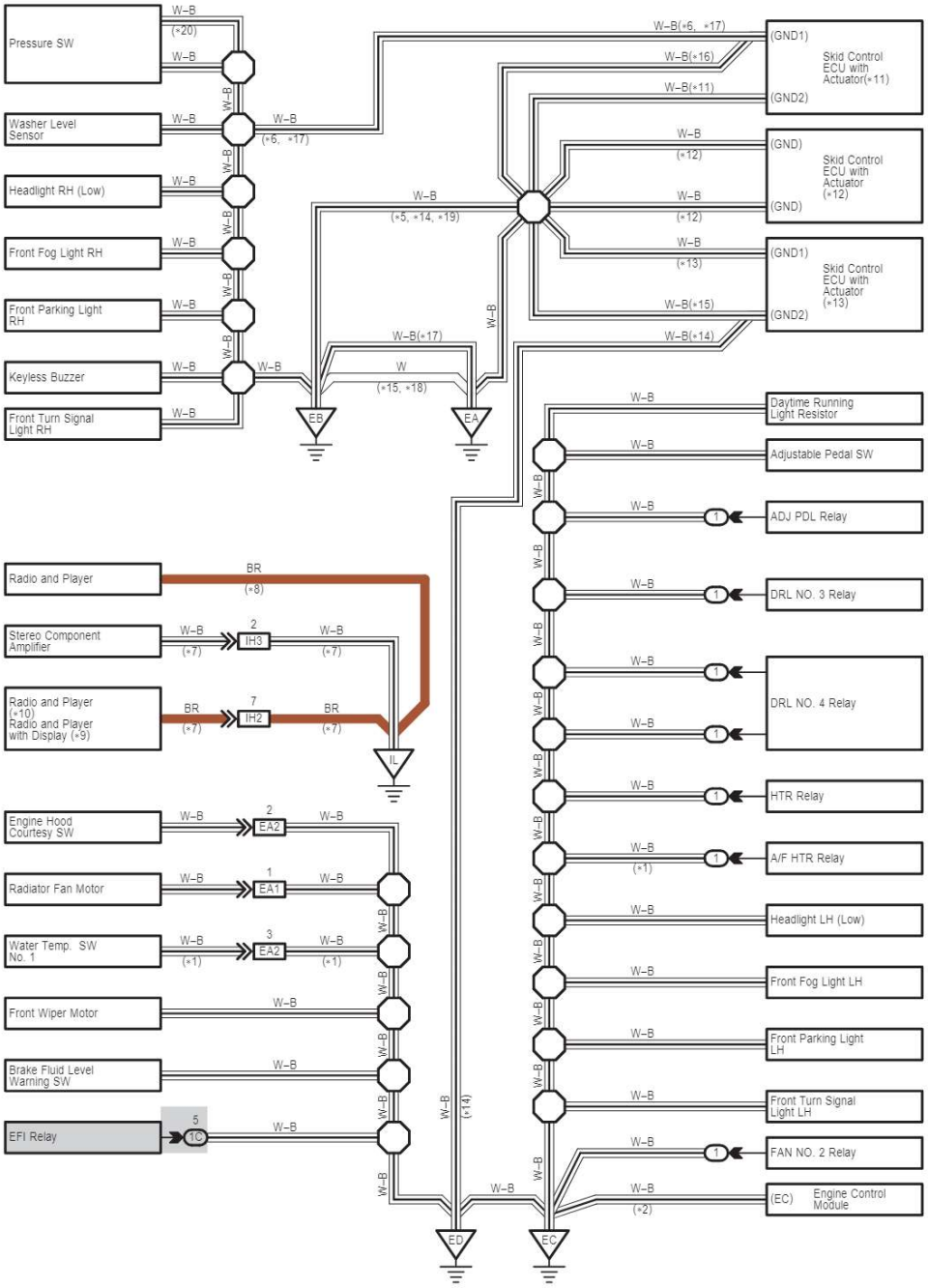
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)
IF3		
IF6		
IG1	50	Instrument Panel Wire and Engine Room Main Wire (Instrument Panel Brace LH)
II2	51	Instrument Panel Wire and Instrument 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)

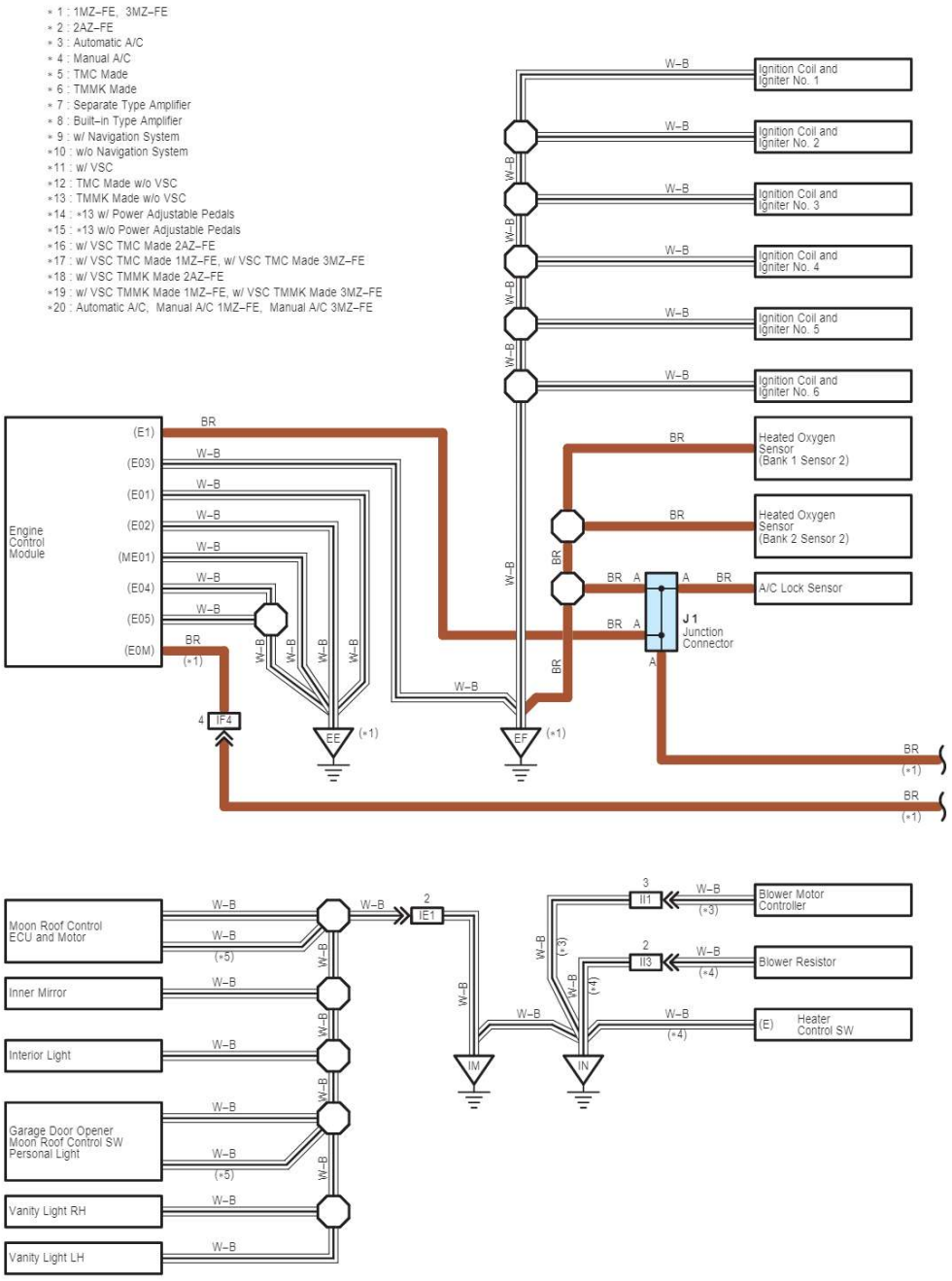
: **Ground Points**

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

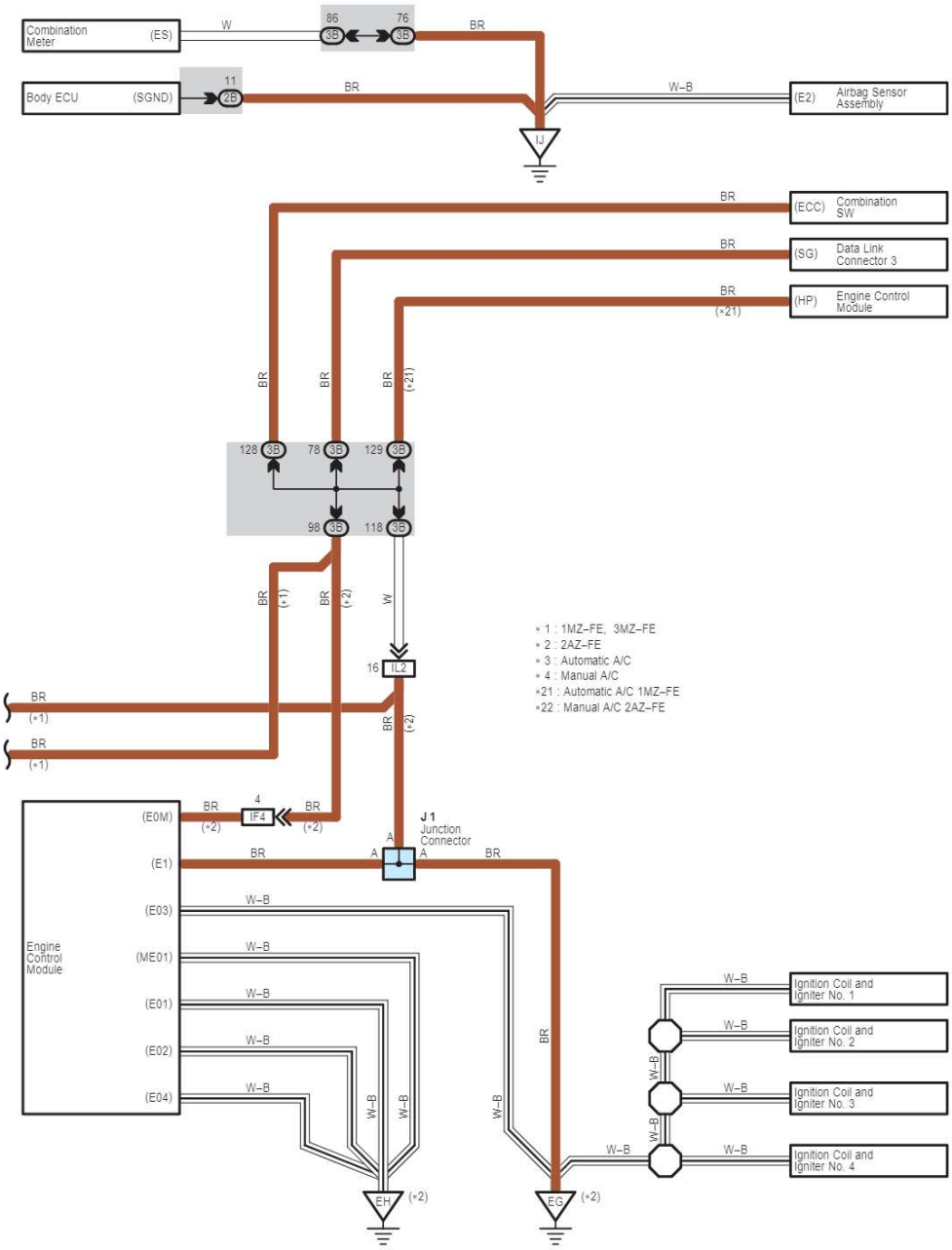
* 1 : 1MZ–FE, 3MZ–FE * 2 : 2AZ–FE * 3 : w/ Power Seat * 4 : w/o Power Seat

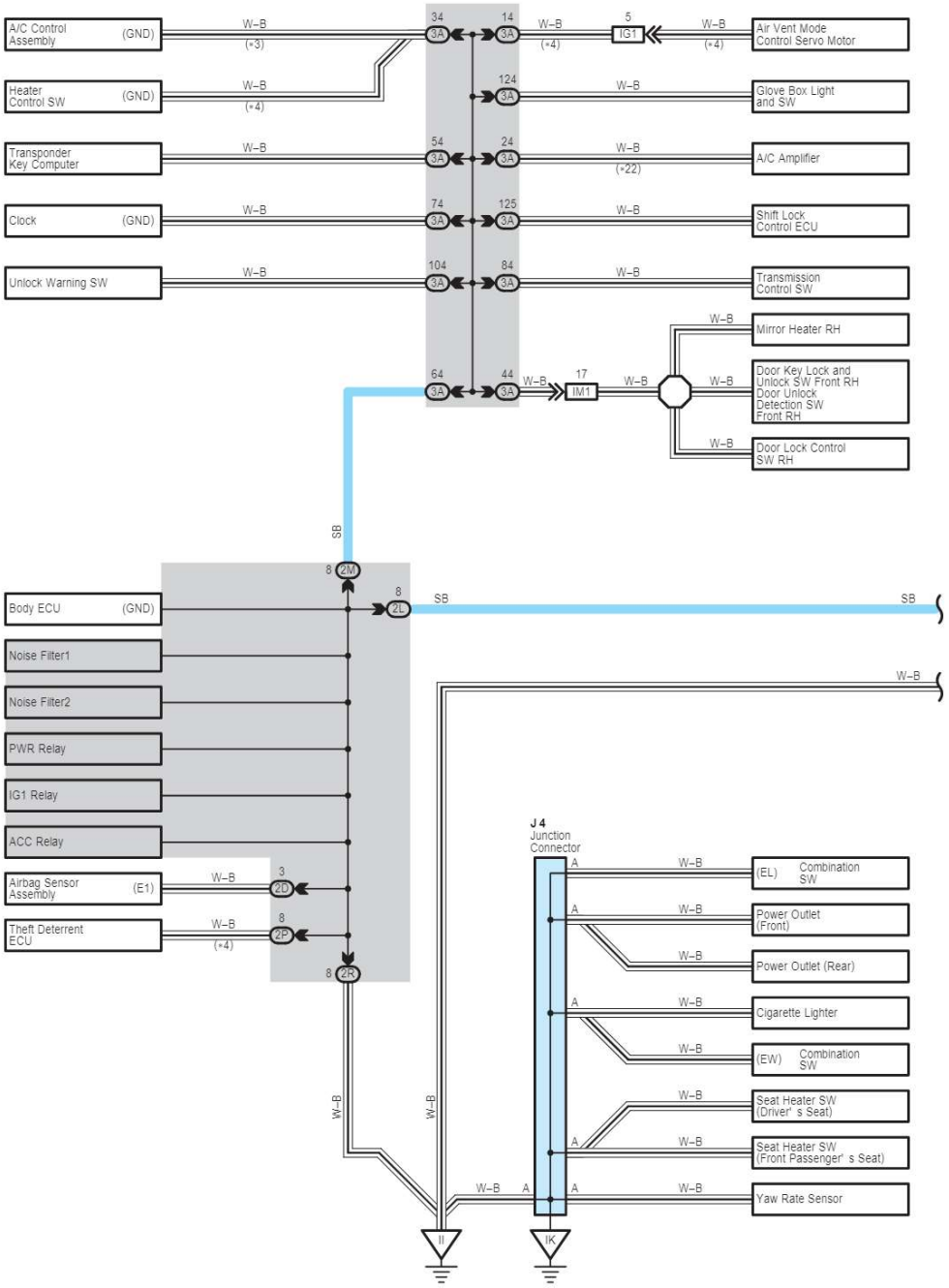
I GROUND POINT



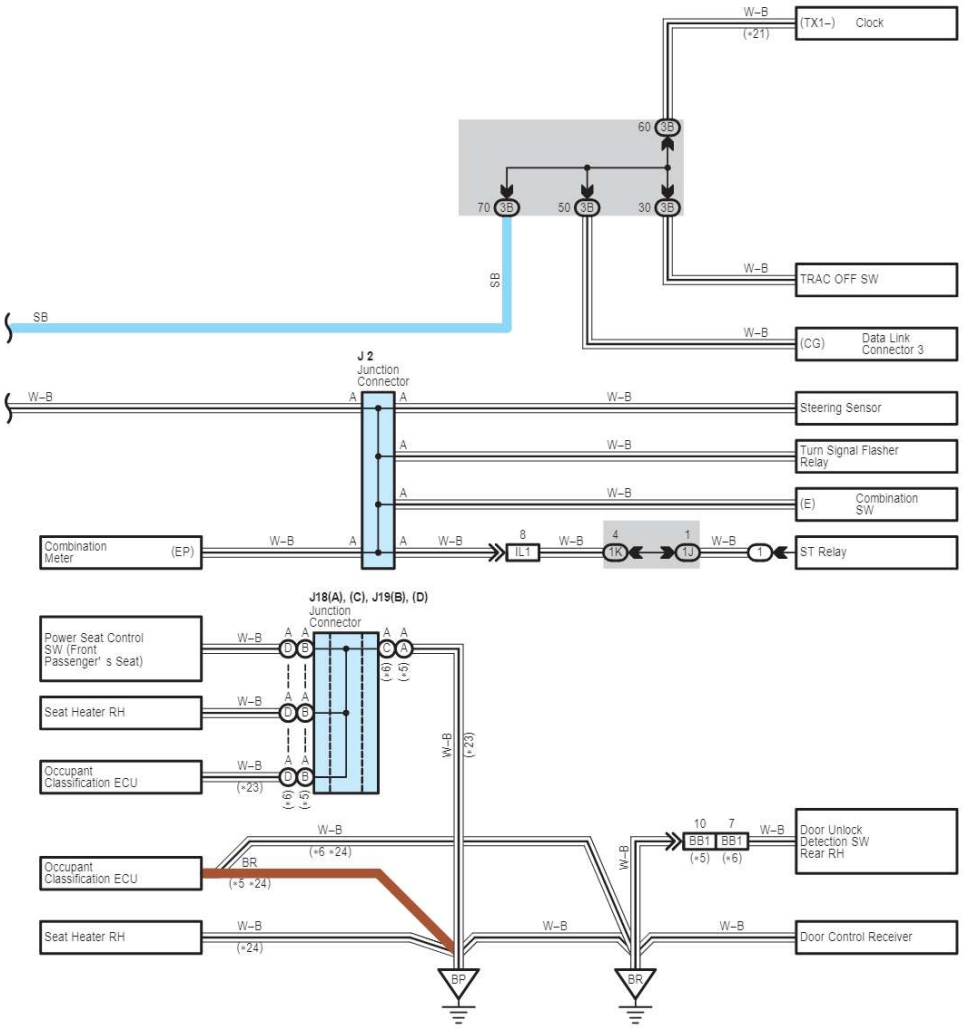

* 1 : 1MZ–FE, 3MZ–FE
* 2 : 2AZ–FE
* 3 : Automatic A/C
* 4 : Manual A/C
* 5 : TMC Made
* 6 : TMMK Made
* 7 : Separate Type Amplifier
* 8 : Built–in Type Amplifier
* 9 : w/ Navigation System
*10 : w/o Navigation System
*11 : w/ VSC
*12 : TMC Made w/o VSC
*13 : TMMK Made w/o VSC
*14 : *13 w/ Power Adjustable 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
Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 4
Ignition Coil and Igniter No. 5
Ignition Coil and Igniter No. 6
Heated Oxygen Sensor (Bank 1 Sensor 2)
Heated Oxygen Sensor (Bank 2 Sensor 2)
A/C Lock Sensor
J1 Junction Connector
Engine Control Module
(E1)
(E03)
(E01)
(E02)
(ME01)
(E04)
(E05)
(E0M)
IF4
EE
EF
Moon Roof Control ECU and Motor
Inner Mirror
Interior Light
Garage Door Opener
Moon Roof Control SW
Personal Light
Vanity Light RH
Vanity Light LH
IE1
IM
IN
II1
II3
Blower Motor Controller
Blower Resistor
Heater Control SW
(E)
W–B
BR

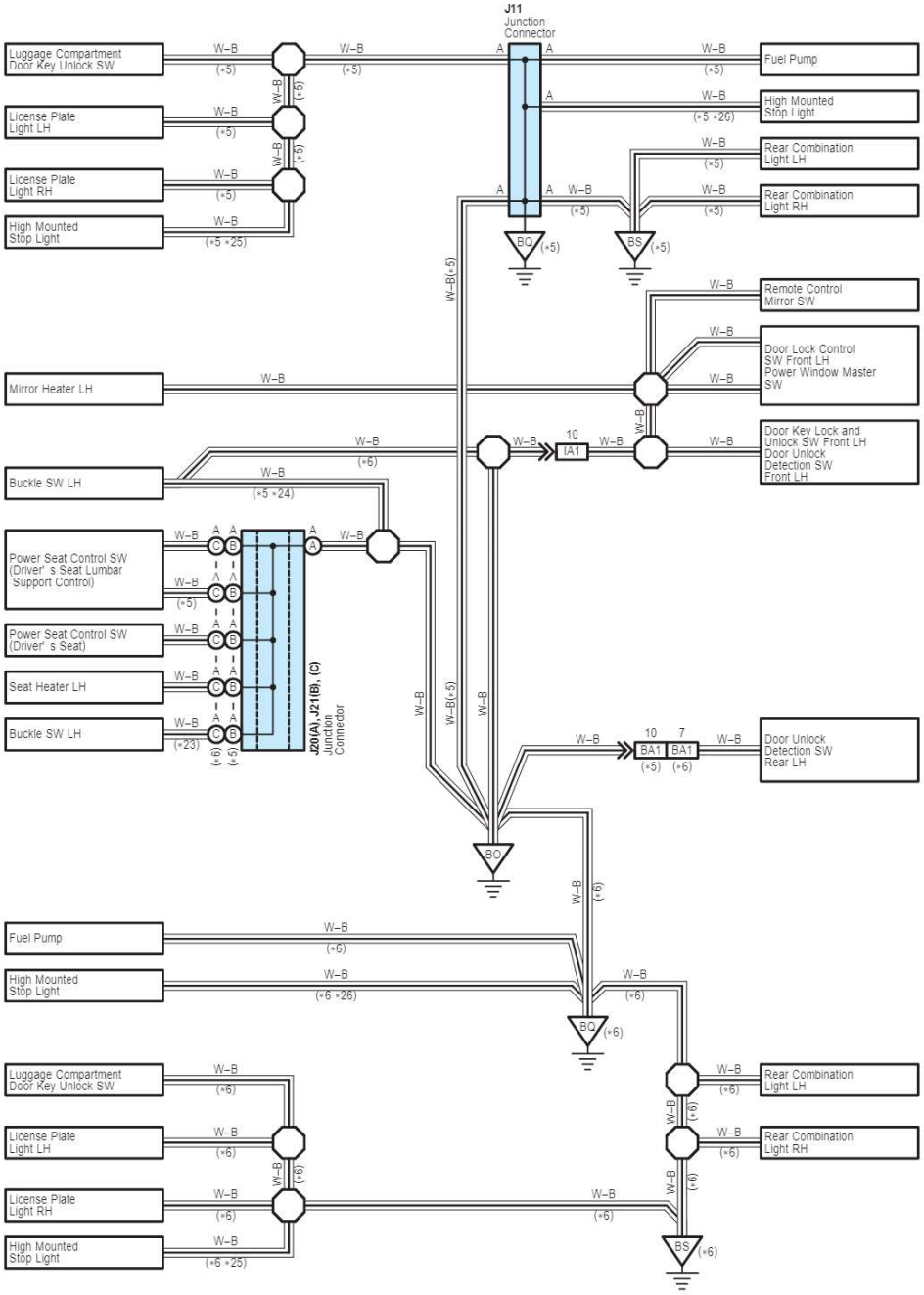
I GROUND POINT




A/C Control Assembly (GND)
W-B (*3)
34 3A
14 3A
W-B (*4)
5 IG1
W-B (*4)
Air Vent Mode Control Servo Motor
Heater Control SW (GND)
W-B (*4)
124 3A
W-B
Glove Box Light and SW
Transponder Key Computer
W-B
54 3A
24 3A
W-B (*22)
A/C Amplifier
Clock (GND)
W-B
74 3A
125 3A
W-B
Shift Lock Control ECU
Unlock Warning SW
W-B
104 3A
84 3A
W-B
Transmission Control SW
W-B
Mirror Heater RH
64 3A
44 3A
W-B
17 IM1
W-B
W-B
Door Key Lock and Unlock SW Front RH
Door Unlock Detection SW Front RH
W-B
Door Lock Control SW RH
SB
8 2M
Body ECU (GND)
8 2L
SB
SB
Noise Filter1
Noise Filter2
PWR Relay
IG1 Relay
ACC Relay
W-B
Airbag Sensor Assembly (E1)
W-B
3 2D
Theft Deterrent ECU
W-B (*4)
8 2P
8 2R
J4 Junction Connector
A
W-B
(EL) Combination SW
Power Outlet (Front)
Power Outlet (Rear)
Cigarette Lighter
(EW) Combination SW
Seat Heater SW (Driver' s Seat)
Seat Heater SW (Front Passenger' s Seat)
Yaw Rate Sensor
W-B
W-B
W-B
A
A
II
IK

* 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




J11
Junction Connector
Luggage Compartment Door Key Unlock SW
License Plate Light LH
License Plate Light RH
High Mounted Stop Light
Fuel Pump
High Mounted Stop Light
Rear Combination Light LH
Rear Combination Light RH
Remote Control Mirror SW
Door Lock Control SW Front LH
Power Window Master SW
Door Key Lock and Unlock SW Front LH
Door Unlock Detection SW Front LH
Mirror Heater LH
Buckle SW LH
Power Seat Control SW (Driver' s Seat Lumbar Support Control)
Power Seat Control SW (Driver' s Seat)
Seat Heater LH
Buckle SW LH
J20(A), J21(B), (C) Junction Connector
Door Unlock Detection SW Rear LH
Fuel Pump
High Mounted Stop Light
Luggage Compartment Door Key Unlock SW
License Plate Light LH
License Plate Light RH
High Mounted Stop Light
Rear Combination Light LH
Rear Combination Light RH
W–B
W–B(–5)
BQ
BS
IA1
BA1

I GROUND POINT

: Parts Location

Code		See Page	Code		See Page	Code		See Page
J1		43	J18	C	46 (*3)	J21	B	46 (*3)
J2		43	J19	B	46 (*3)			47 (*4)
J4		43		D	46 (*3)		C	46 (*3)
J11		44	J20	A	46 (*3)			47 (*4)
J18	A	46 (*3)			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	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)
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

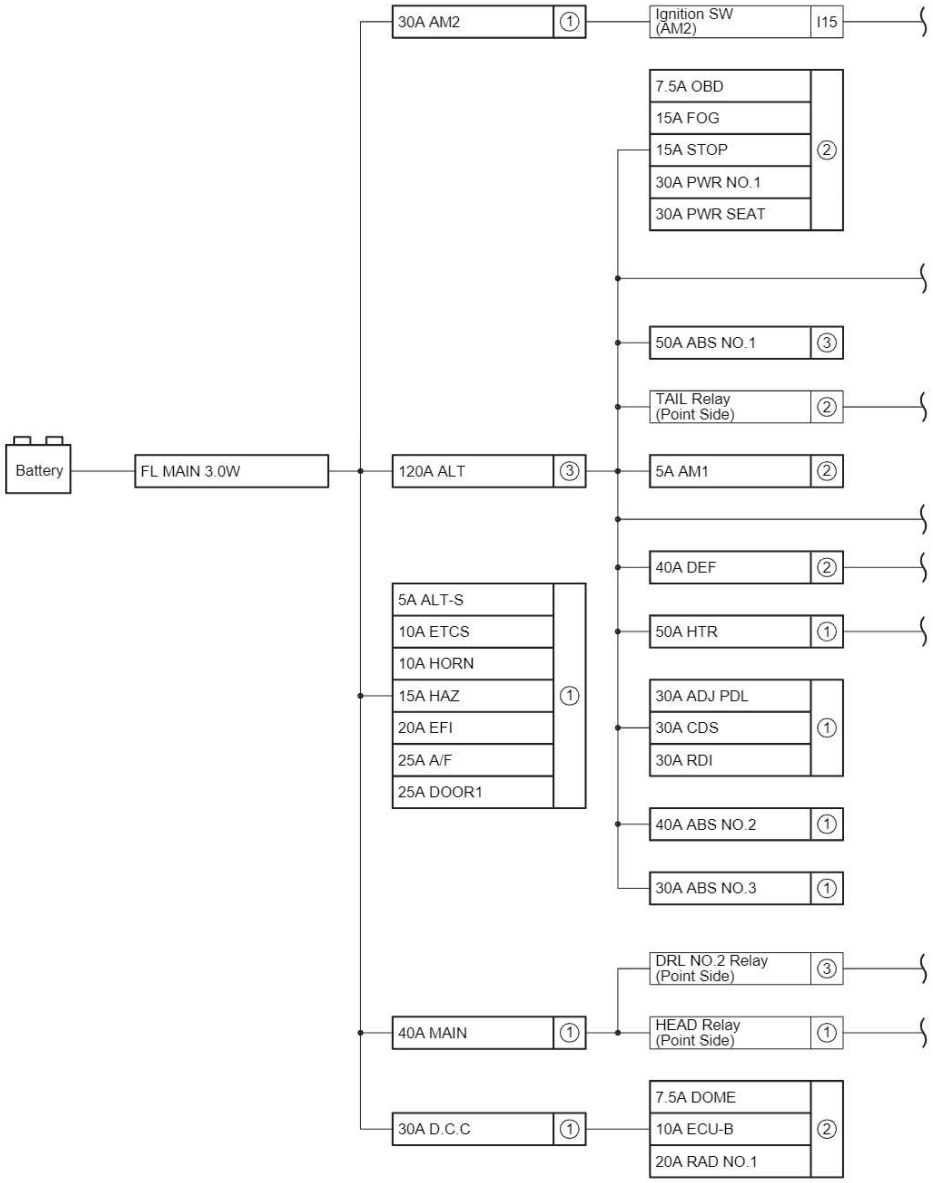
▽ : **Ground Points**

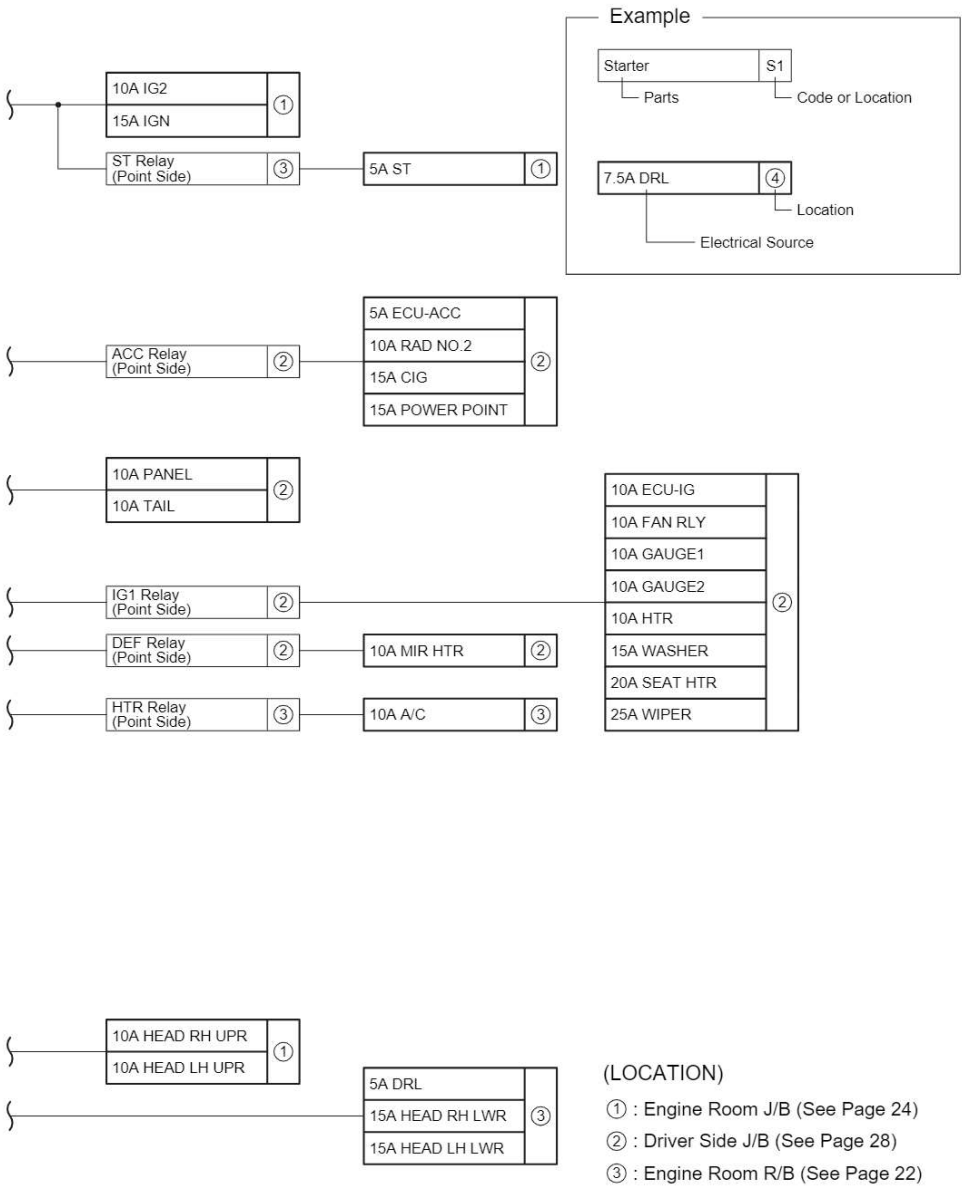
Code	See Page	Ground Points Location
EA	48 (*1)	Right Fender
	49 (*2)	
EB	48 (*1)	
	49 (*2)	
EC	48 (*1)	Left Fender
	49 (*2)	
ED	48 (*1)	
	49 (*2)	
EE	48 (*1)	Left Side of Cylinder Head
EF	48 (*1)	Right Side of Cylinder Head
EG	49 (*2)	Left Side of Cylinder Head
EH	49 (*2)	Intake Side of Cylinder Block
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)

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	68
		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
		Illumination	128
		Key Reminder	140
		Multiplex Communication System (BEAN)	98
		Navigation System, Audio System	238
		Seat Belt Warning	214
		Shift Lock	206
		SRS	175
		Turn Signal and Hazard Warning Light	132
10A	GAUGE2	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
		Automatic Glare–Resistant EC Mirror	220
		Back–Up Light	138
		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
		Moon Roof	154
		Multiplex Communication System (BEAN)	98
		Navigation System, Audio System	238
		Power Adjustable Pedals	232
		Rear Window Defogger and Mirror Heater	230
10A	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
10A	MIR HTR	Engine Control (1MZ–FE, 3MZ–FE)	70
		Engine Control (2AZ–FE)	82
		Rear Window Defogger and Mirror Heater	230
10A	PANEL	Clock	234
		Illumination	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)

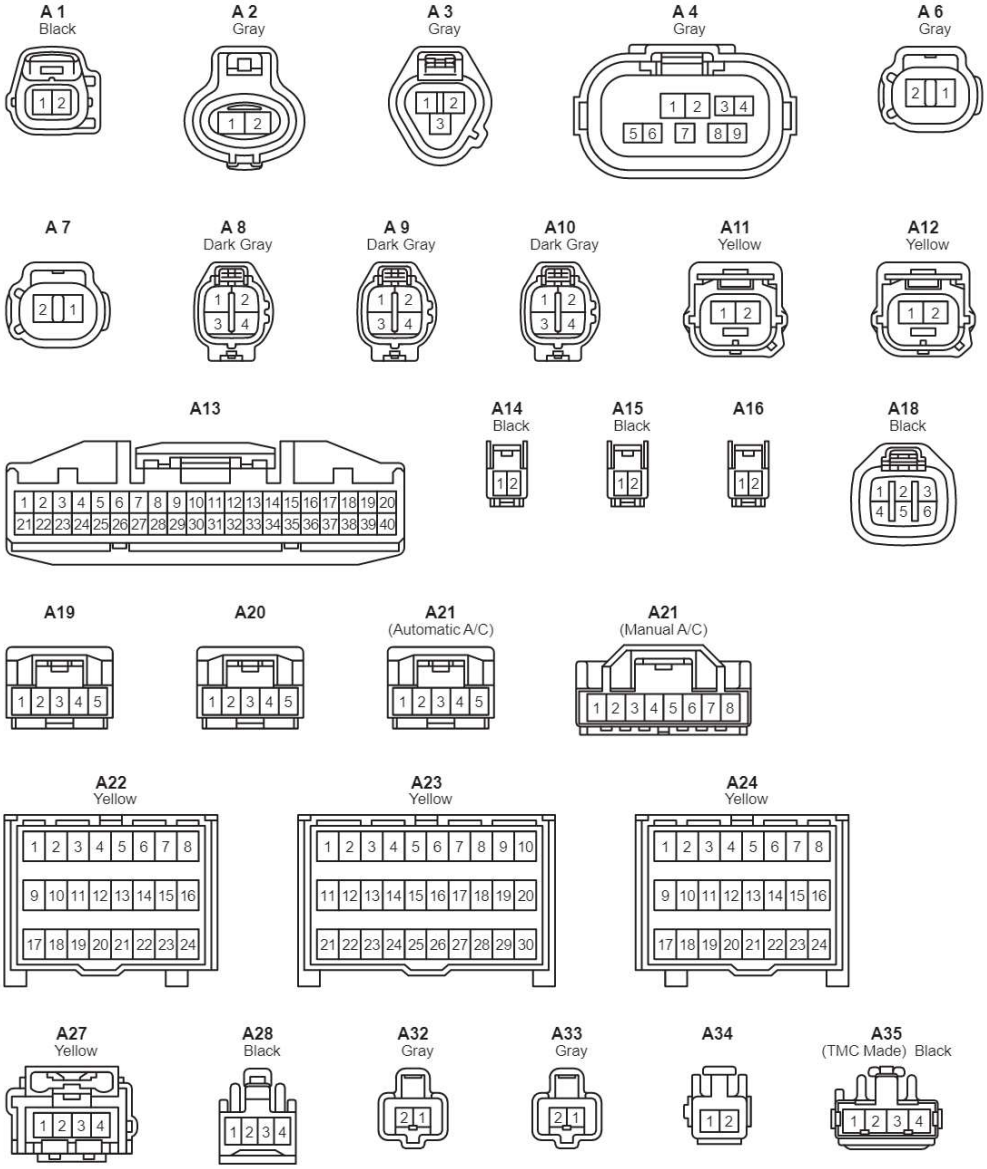
Fuse		System	Page
5A	DRL	Headlight	114
		Multiplex Communication System (BEAN)	98
10A	A/C	Manual Air Conditioning (1MZ–FE, 3MZ–FE)	272
		Manual Air Conditioning (2AZ–FE)	278
15A	HEAD LH LWR	Combination Meter	248
		Fog Light	118

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

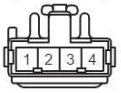
Fuse		System	Page
15A	HEAD LH LWR	Headlight	114
		Multiplex Communication System (BEAN)	98
15A	HEAD RH LWR	Headlight	114
		Multiplex Communication System (BEAN)	98
50A	ABS NO.1	ABS (w/o VSC TMC Made)	166
		ABS (w/o VSC TMMK Made)	170
		ABS (w/ VSC), TRAC and VSC	160
120A	ALT	Automatic Light Control	120
		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



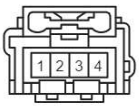
A35
(TMMK Made)



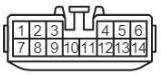
A36



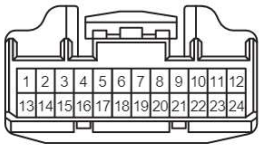
A37
Yellow



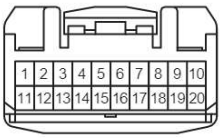
A38



A39



A40



B 1
Gray



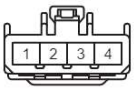
B 2
Gray



B 3



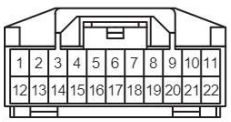
B 4
Black



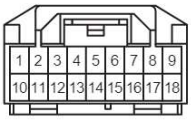
B 5
Black



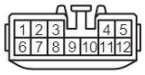
B 6



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



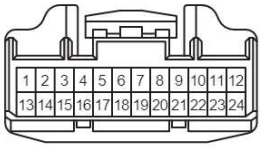
C 3
(2AZ–FE) Dark Gray



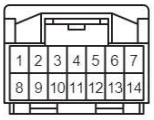
C 4



C 5
(Automatic A/C)



C 5
(Manual A/C)

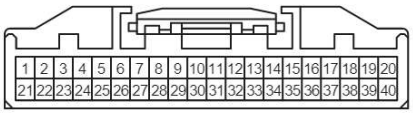


K CONNECTOR LIST

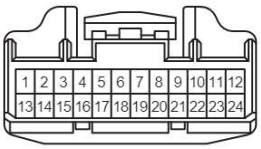
C 6
Black



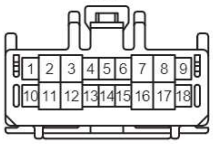
C 7



C 8



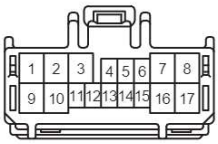
C 9
Black



C10
Black



C11



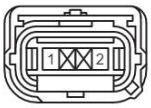
C12



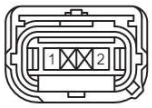
C13



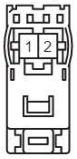
C14
Yellow



C15
Yellow



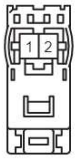
C16
(TMC Made) Black



C16
(TMMK Made) Yellow



C17
(TMC Made) Black



C17
(TMMK Made) Yellow



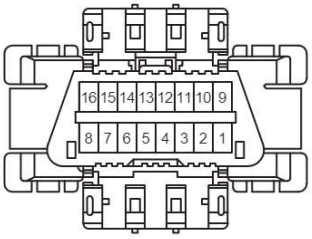
D 1
Gray



D 2
Black



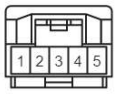
D 3



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

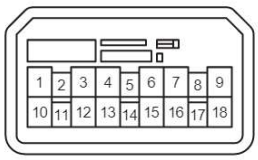


D11



*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



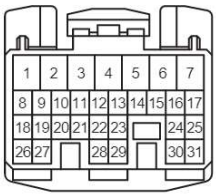
E 4 (2AZ–FE) Black



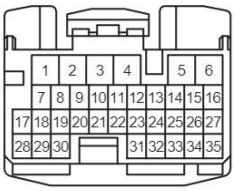
E 5 Black



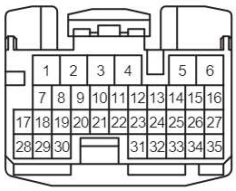
E 6



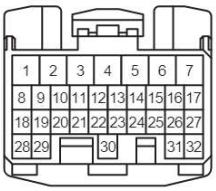
E 7 (*1)



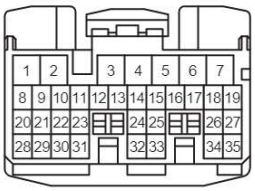
E 7 (*2) Black



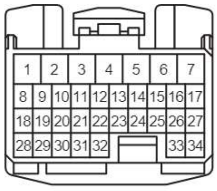
E 8



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

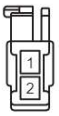
F 6 (TMC Made)



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



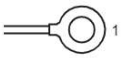
F12 (TMC Made) Black



F12 (TMMK Made) Black



G 1



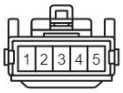
G 2 Black



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



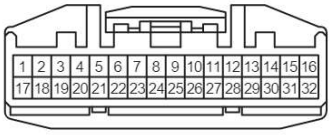
H 8 Black



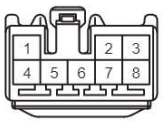
H 9 Black



H10



H11



H12 (*3)



H12 (*4) Gray



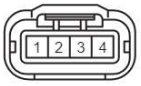
H13 (TMC Made) Dark Gray



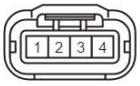
H13 (TMMK Made) Black



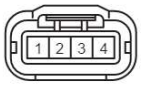
I 1 Black



I 2 Black



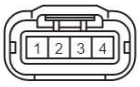
I 3 Black



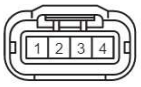
I 4 Black



I 5 Black



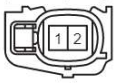
I 6 Black



I 7 (1MZ–FE, 3MZ–FE) Gray



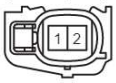
I 7
(2AZ–FE) Gray



I 8
(1MZ–FE, 3MZ–FE) Gray



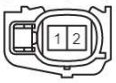
I 8
(2AZ–FE) Gray



I 9
(1MZ–FE, 3MZ–FE) Gray



I 9
(2AZ–FE) Gray



I10
(1MZ–FE, 3MZ–FE) Gray



I10
(2AZ–FE) Gray



I11
Gray



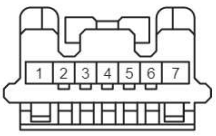
I12
Gray



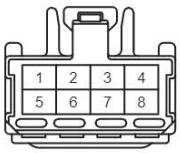
I13
Gray



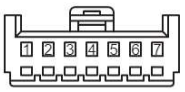
I14
Black



I15



I16
Black



I17
(TMC Made)



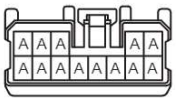
I17
(TMMK Made) Gray



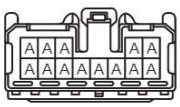
I18
Black



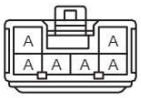
J 1
Dark Gray



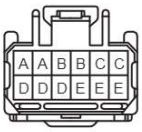
J 2



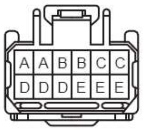
J 4



J 5
Black



J 6
Black



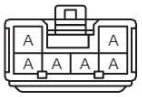
J 7



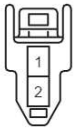
J 8



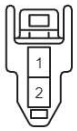
J11



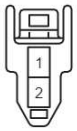
J13



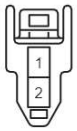
J14



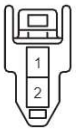
J15



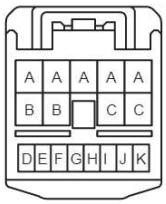
J16



J17



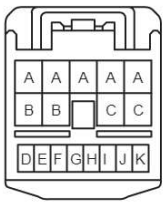
J18
(TMC Made) Gray



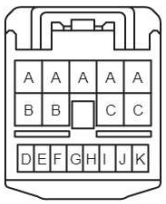
K CONNECTOR LIST

*5 : TMC Made w/ Mirror Heater
*6 : TMC Made w/o Mirror Heater

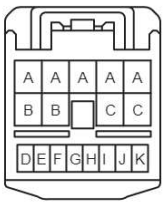
J18
(TMMK Made)



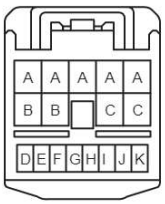
J19
(TMC Made) Gray



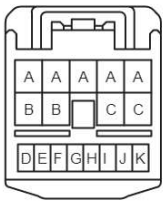
J19
(TMMK Made)



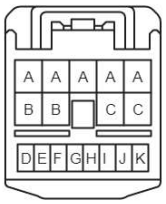
J20
Gray



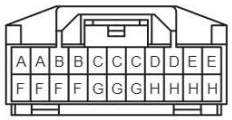
J21
(TMC Made) Gray



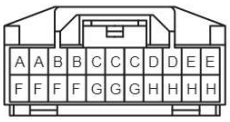
J21
(TMMK Made)



J22



J23



K 1
Black



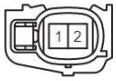
K 2
Black



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)



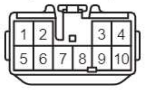
M 3
(*6)



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



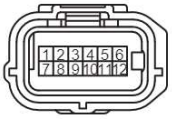
O 8
Gray



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



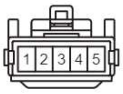
P 5



P 6
(TMC Made)



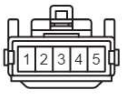
P 6
(TMMK Made)



P 7
(TMC Made) Black



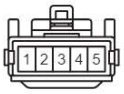
P 7
(TMMK Made)



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



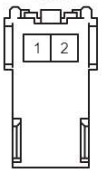
P11 Black



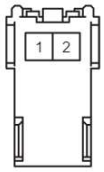
P12 Black



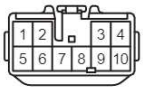
P13 Yellow



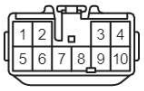
P14 Yellow



P15 Black



P16 Black



P17 Black



P18 Black



P19 Black



P20 Black



P22 Black



P23 Black



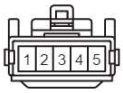
P24 Black



P25 Black



P28



P29 (*9)



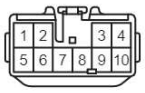
P29 (*10) Black



R 1 Gray



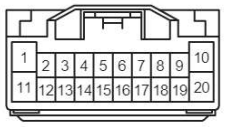
R 2



R 3 Blue



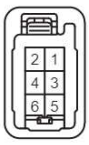
R 4



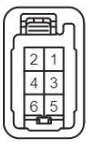
R 5 Black



R 6



R 7



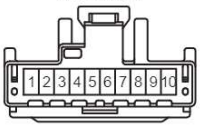
R 8



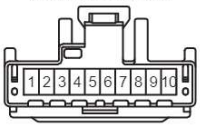
R 9



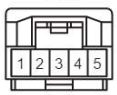
R10 (TMC Made)



R10 (TMMK Made) Black

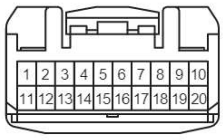


R12 Gray

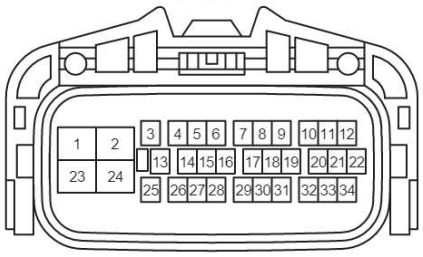


*11 : TMC Made w/o VSC
*12 : TMMK Made w/o VSC

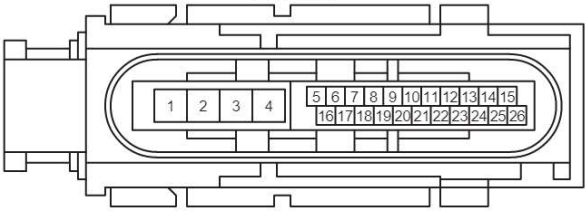
R13



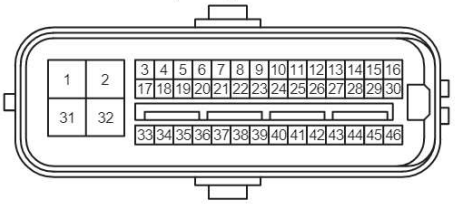
S 1
(*11) Black



S 1
(*12) Black



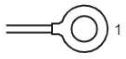
S 1
(w/ VSC) Black



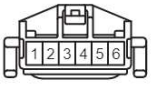
S 2
Black



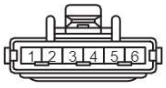
S 3



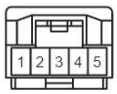
S 4
Black



S 5
Blue



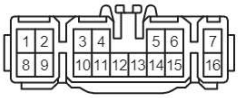
S 6



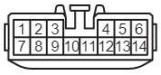
S11
Gray



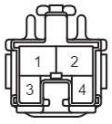
S12



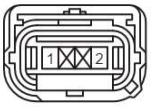
S13



S14
Blue



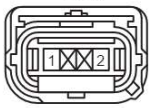
S15
Yellow



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



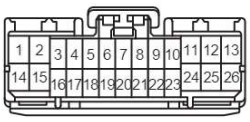
T 1
Black



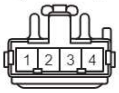
T 4
Black



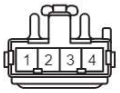
T 5



T 6
(TMC Made)



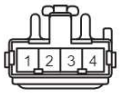
T 6
(TMMK Made) Black



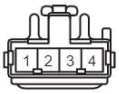
T 7
Black



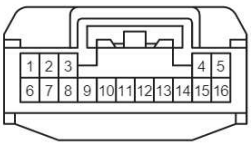
T 9



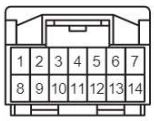
T10



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



V13
Brown



V14
Brown



V15
Blue



V16
Black



V17
Black



V18
Black



V19
Black



W 1
Black



W 2
Black



W 3
Gray



W 4
Gray



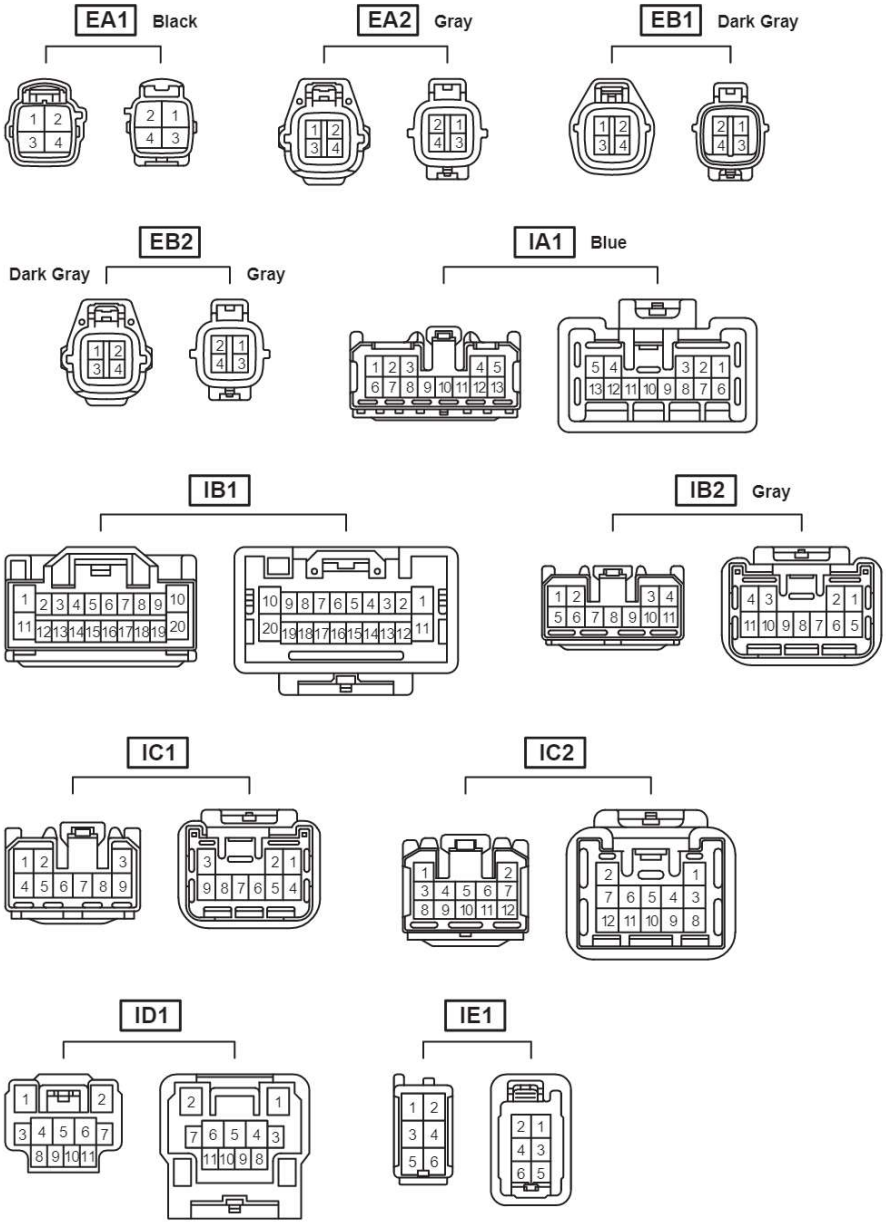
Y 1
Black

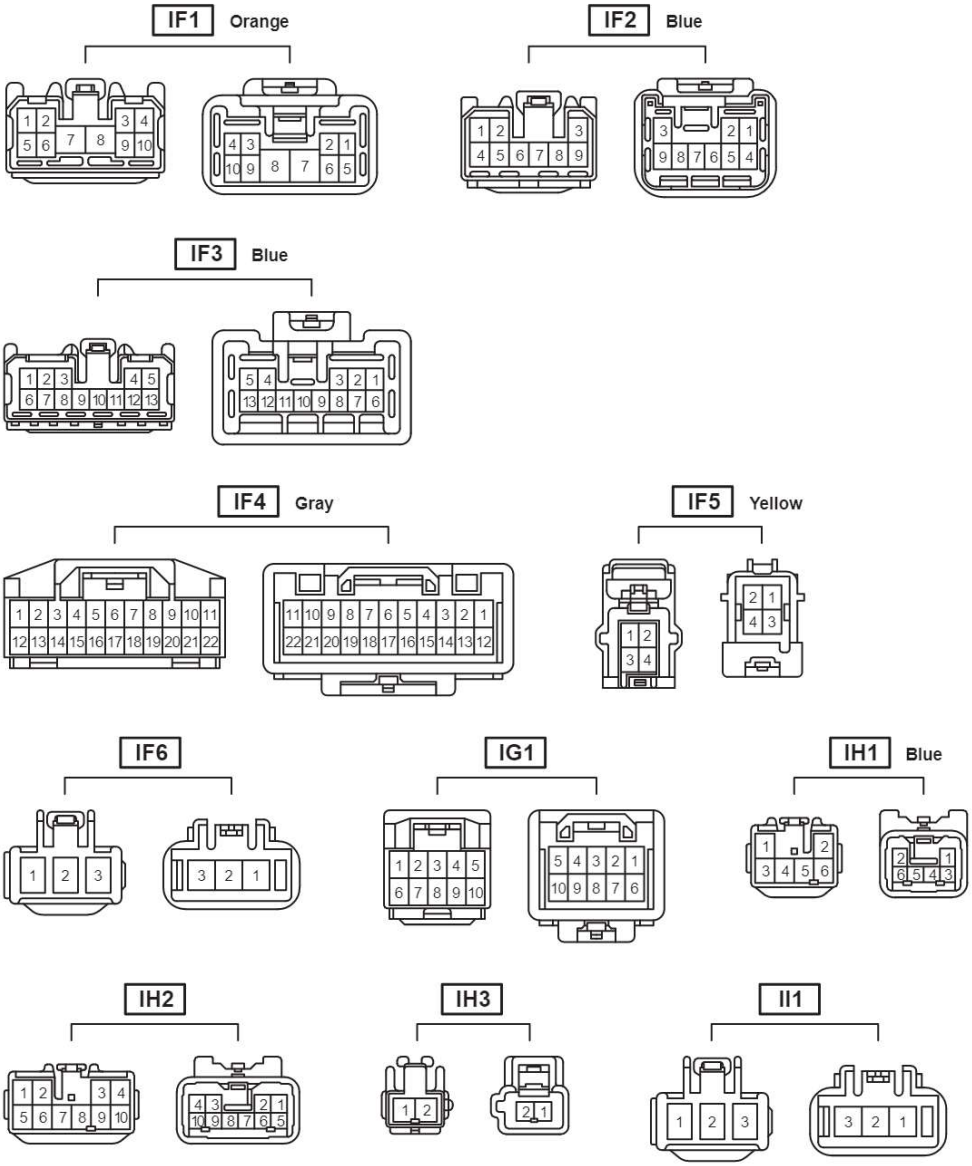


Z 1

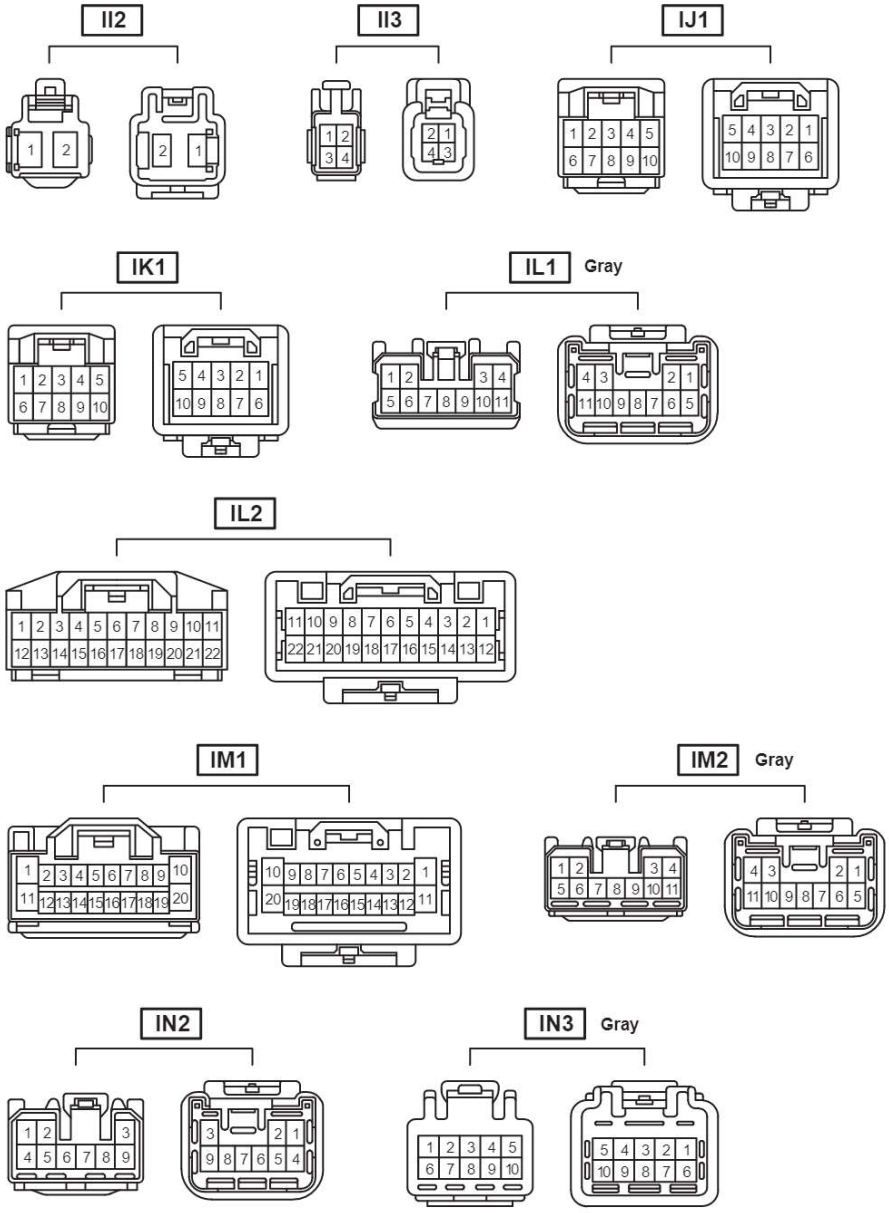


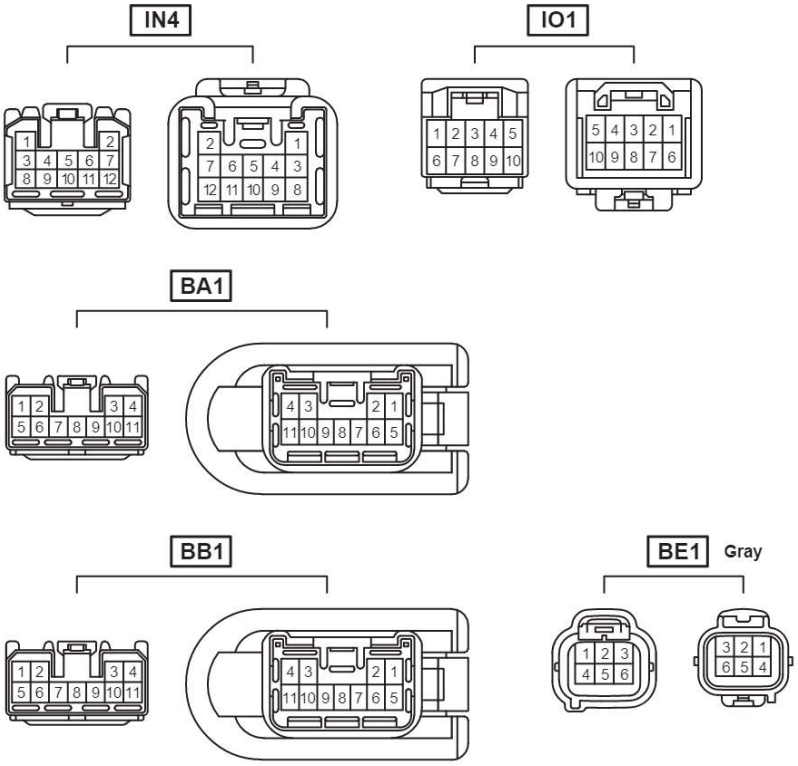
K CONNECTOR LIST




IF1 Orange
IF2 Blue
IF3 Blue
IF4 Gray
IF5 Yellow
IF6
IG1
IH1 Blue
IH2
IH3
II1

K CONNECTOR LIST




IN4
IO1
BA1
BB1
BE1
Gray

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980–11070
A 2	A/C Condenser Fan Motor	90980–10928
A 3	A/C Lock Sensor	90980–11016
	A/C Magnetic Clutch	
A 4	A/T Indicator Light SW	90980–12362
	Back–Up Light SW	
	Park/Neutral Position SW	
A 6	ABS Speed Sensor Front LH	90980–11002
A 7	ABS Speed Sensor Front RH	
A 8	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
A 9	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	
A10	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	
A11	Airbag Sensor Front LH	90980–11856
A12	Airbag Sensor Front RH	
A13	A/C Control Assembly	90980–12169
A14	A/C Room Temp. Sensor	90980–11918
A15	A/C Solar Sensor	
A16	A/C Thermistor	
A18	Accelerator Position Sensor	90980–11144
A19	Air Inlet Control Servo Motor	90980–11909
A20	Air Mix Control Servo Motor	
A21	Air Vent Mode Servo Motor (Automatic A/C)	90980–11909
	Air Vent Mode Servo Motor (Manual A/C)	90980–11989
A22	Airbag Sensor Assembly	90980–12392
A23	Airbag Sensor Assembly	90980–12391
A24	Airbag Sensor Assembly	90980–12390
A27	Airbag Squib (Steering Wheel Pad)	90980–12160
A28	Automatic Light Control Sensor	90980–11107
A32	ABS Speed Sensor Rear LH	90980–11060
A33	ABS Speed Sensor Rear RH	
A34	Adjustable Pedal Motor	90980–10825
A35	Adjustable Pedal SW	90980–11090
A36	A/T Shift Lever Illumination	90980–12221
	Transmission Control SW	
A37	Airbag Squib (Front Airbag Sensor Assembly)	90980–12160
A38	A/C Amplifier	90980–10807
A39	A/C Control Assembly	90980–12200
A40	A/C Control Assembly	90980–12259
B 1	Back–Up Light SW	90980–11250
B 2	Brake Fluid Level Warning SW	90980–11207
B 3	Blower Motor	90980–10903
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

Code	Part Name	Part Number
B 8	Body ECU	90980–10803
B 9	Buckle SW LH	90980–11950
B10	Buckle SW (Front Passenger's Side) (TMC Made)	90980–11019
	Buckle SW (Front Passenger's Side) (TMMK Made)	90980–10947
B11	Buckle SW LH (TMC Made)	90980–10942
	Buckle SW LH (TMMK Made)	90980–11034
	Seat Position Airbag Sensor (TMC Made)	90980–10942
	Seat Position Airbag Sensor (TMMK Made)	90980–11034
C 1	Camshaft Position Sensor	90980–10947
C 2	Counter Gear Speed Sensor	90980–11156
C 3	Crankshaft Position Sensor	90980–10947
C 4	Cigarette Lighter	90980–11606
	Cigarette Lighter Illumination	
C 5	Clock (Automatic A/C)	90980–12200
	Clock (Manual A/C)	90980–11911
C 6	Clutch Start SW	90980–10825
C 7	Combination Meter	90980–12170
C 8	Combination Meter	90980–12200
C 9	Combination SW	90980–11594
C10	Combination SW	90980–12183
C11	Combination SW	90980–11672
C12	Cruise Control Clutch SW	90980–10906
C13	Choke Coil	90980–11259
C14	Curtain Shield Airbag Sensor LH	90980–12241
C15	Curtain Shield Airbag Sensor RH	
C16	Curtain Shield Airbag Squib LH (TMC Made)	90980–12219
	Curtain Shield Airbag Squib LH (TMMK Made)	90980–11884
C17	Curtain Shield Airbag Squib RH (TMC Made)	90980–12219
	Curtain Shield Airbag Squib RH (TMMK Made)	90980–11884
D 1	Diode (A/C No.1)	90980–11071
D 2	Diode (A/C No.2)	90980–10962
D 3	Data Link Connector 3	90980–11665
D 4	Diode (Luggage Compartment Light)	90980–10962
D 5	Door Control Receiver	90980–11909
D 6	Door Courtesy SW Front LH	90980–10871
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	90980–12226
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	

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

Code	Part Name	Part Number
D11	Door Key Lock and Unlock SW Front RH	90980–12226
	Door Lock Motor Front RH	
	Door Unlock Detection SW Front RH	
D12	Door Lock Control SW Front LH	90980–12122
	Power Window Master SW	
D13	Door Lock Control SW RH (TMC Made)	82824–12270
	Door Lock Control SW RH (TMMK Made)	90980–10797
D14	Door Lock Motor Rear LH	90980–12226
	Door Unlock Detection SW Rear LH	
D15	Door Lock Motor Rear RH	
	Door Unlock Detection SW Rear RH	
D16	Daytime Running Light Resistor	90980–10928
E 3	Electronically Controlled Transmission Solenoid	90980–12326
E 4	Engine Coolant Temp. Sensor (1MZ–FE, 3MZ–FE)	90980–10737
	Engine Coolant Temp. Sensor (2AZ–FE)	90980–10735
E 5	Engine Hood Courtesy SW	90980–11003
E 6	Engine Control Module	90980–12525
E 7	Engine Control Module	90980–12146
E 8	Engine Control Module	90980–12143
E 9	Engine Control Module	90980–12145
E10	Engine Control Module	90980–12144
F 1	Front Fog Light LH	90980–11096
F 2	Front Fog Light RH	
F 5	Front Wiper Motor	90980–11599
F 6	Front Door Speaker LH (TMC Made)	82824–12260
	Front Door Speaker LH (TMMK Made)	90980–10935
F 7	Front Door Speaker RH (TMC Made)	82824–12260
	Front Door Speaker RH (TMMK Made)	90980–10935
F 8	Fuel Pump	90980–11077
	Fuel Sender	
F 9	Front Parking Light LH	90980–10887
F10	Front Parking Light RH	
F11	Front Turn Signal Light LH (TMC Made)	90980–11019
	Front Turn Signal Light LH (TMMK Made)	90980–11020
F12	Front Turn Signal Light RH (TMC Made)	90980–11019
	Front Turn Signal Light RH (TMMK Made)	90980–11020
G 1	Generator	90980–09213
G 2	Generator	90980–11964
G 3	Glove Box Light and SW	90980–11098
G 4	Garage Door Opener	90980–10789
	Moon Roof Control SW	
	Personal Light	
H 1	Headlight LH (High)	90980–11095
H 2	Headlight LH (Low)	90980–11096
H 3	Headlight RH (High)	90980–11095

Code	Part Name	Part Number
H 4	Headlight RH (Low)	90980–11096
H 6	Heated Oxygen Sensor (Bank 1 Sensor 2) (1MZ–FE, 3MZ–FE)	90980–10869
	Heated Oxygen Sensor (Bank 1 Sensor 2) (2AZ–FE)	90980–11028
H 7	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980–11028
H 8	Horn (High)	90980–10619
H 9	Horn (Low)	
H10	Heater Control SW	90980–12153
H11	Heater Control SW	90980–11686
H12	High Mounted Stop Light (w/ Rear Spoiler)	90980–11060
	High Mounted Stop Light (w/o Rear Spoiler)	90980–11148
H13	Heated Oxygen Sensor (Bank 1 Sensor 3)	90980–11028
I 1	Ignition Coil and Igniter No.1	90980–11885
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 (1MZ–FE, 3MZ–FE)	90980–11153
	Injector No.1 (2AZ–FE)	90980–11875
I 8	Injector No.2 (1MZ–FE, 3MZ–FE)	90980–11153
	Injector No.2 (2AZ–FE)	90980–11875
I 9	Injector No.3 (1MZ–FE, 3MZ–FE)	90980–11153
	Injector No.3 (2AZ–FE)	90980–11875
I10	Injector No.4 (1MZ–FE, 3MZ–FE)	90980–11153
	Injector No.4 (2AZ–FE)	90980–11875
I11	Injector No.5	90980–11153
I12	Injector No.6	
I13	Ignition Key Cylinder Light	90980–10679
I14	Ignition Key Cylinder Light	90980–12092
	Transponder Key Amplifier	
I15	Ignition SW	90980–11615
I16	Inner Mirror	90980–11794
I17	Interior Light	90980–10908
I18	Intake Air Control Valve	90980–11599
J 1	Junction Connector	90980–12346
J 2	Junction Connector	90980–11542
J 4	Junction Connector	90980–10976
J 5	Junction Connector	90980–11661
J 6	Junction Connector	
J 7	Junction Connector	
J 8	Junction Connector	
J11	Junction Connector	90980–10976
J13	Junction Connector	90980–12355
J14	Junction Connector	
J15	Junction Connector	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
J16	Junction Connector	90980–12355
J17	Junction Connector	
J18	Junction Connector	90980–12374
J19	Junction Connector	
J20	Junction Connector	
J21	Junction Connector	
J22	Junction Connector	90980–11915
J23	Junction Connector	
K 1	Keyless Buzzer	90980–11142
K 2	Knock Sensor (Bank 1)	90980–11875
K 3	Knock Sensor (Bank 1) (1MZ–FE)	90980–11166
	Knock Sensor (Bank 1) (3MZ–FE)	90980–11875
K 4	Knock Sensor (Bank 2) (1MZ–FE)	90980–11166
	Knock Sensor (Bank 2) (3MZ–FE)	90980–11875
L 1	License Plate Light LH	90980–11148
L 2	License Plate Light RH	
L 3	Luggage Compartment Door Key Unlock SW	90980–11060
L 4	Luggage Compartment Door Opener Motor	90980–10825
	Luggage Compartment Light SW	
L 5	Luggage Compartment Light	90980–11148
M 1	Mass Air Flow Meter	90980–11317
M 2	Mirror Heater LH (TMC Made w/ Mirror Heater)	90980–10558
	Mirror Heater LH (TMC Made w/o Mirror Heater)	90980–10395
	Mirror Heater LH (TMMK Made)	90980–11488
	Remote Control Mirror LH (TMC Made w/ Mirror Heater)	90980–10558
	Remote Control Mirror LH (TMC Made w/o Mirror Heater)	90980–10395
	Remote Control Mirror LH (TMMK Made)	90980–11488
M 3	Mirror Heater RH (TMC Made w/ Mirror Heater)	90980–10558
	Mirror Heater RH (TMC Made w/o Mirror Heater)	90980–10395
	Mirror Heater RH (TMMK Made)	90980–11488
	Remote Control Mirror RH (TMC Made w/ Mirror Heater)	90980–10558
	Remote Control Mirror RH (TMC Made w/o Mirror Heater)	90980–10395
	Remote Control Mirror RH (TMMK Made)	90980–11488
M 4	Moon Roof Control ECU and Motor (TMC Made)	90980–10997
	Moon Roof Control ECU and Motor (TMMK Made)	90980–10799
N 1	Noise Filter (Ignition)	90980–10843
N 4	Noise Filter (Stop and Dome)	90980–10860

Code	Part Name	Part Number
O 1	Oil Pressure SW	90980–11363
O 3	Occupant Classification ECU	90980–12357
O 4	Occupant Classification ECU	90980–12356
O 5	Occupant Classification Sensor Front RH	90980–12354
O 6	Occupant Classification Sensor Rear RH	90980–12353
O 7	Occupant Classification Sensor Front LH	
O 8	Occupant Classification Sensor Rear LH	90980–12354
O 9	Occupant Classification ECU	90980–12357
O10	Occupant Classification ECU	90980–12356
O11	Occupant Classification Sensor Front RH (TMC Made)	90980–12353
	Occupant Classification Sensor Front RH (TMMK Made)	90980–12354
O12	Occupant Classification Sensor Rear RH	90980–12353
O13	Occupant Classification Sensor Front LH	
O14	Occupant Classification Sensor Rear LH (TMC Made)	90980–12353
	Occupant Classification Sensor Rear LH (TMMK Made)	90980–12354
P 1	Power Steering Oil Pressure SW	90980–11428
P 2	Pressure SW	90980–10943
P 3	Parking Brake SW (w/ Power Adjustable Pedals)	90980–10860
	Parking Brake SW (w/o Power Adjustable Pedals)	90980–10871
P 4	Power Outlet (Front)	90980–10760
P 5	Power Outlet (Rear)	90980–10860
P 6	Power Window Control SW Front RH (TMC Made)	82824–12230
	Power Window Control SW Front RH (TMMK Made)	90980–10789
P 7	Power Window Control SW Rear LH	90980–10789
P 8	Power Window Control SW Rear RH (TMC Made)	82824–12230
	Power Window Control SW Rear RH (TMMK Made)	90980–10789
P 9	Power Window Motor Front LH (TMC Made)	82824–12270
	Power Window Motor Front LH (TMMK Made)	90980–10797
P10	Power Window Motor Front RH (TMC Made)	82824–12270
	Power Window Motor Front RH (TMMK Made)	90980–10797
P11	Power Window Motor Rear LH	90980–10797
P12	Power Window Motor Rear RH	
P13	Pretensioner LH	90980–12253
P14	Pretensioner RH	

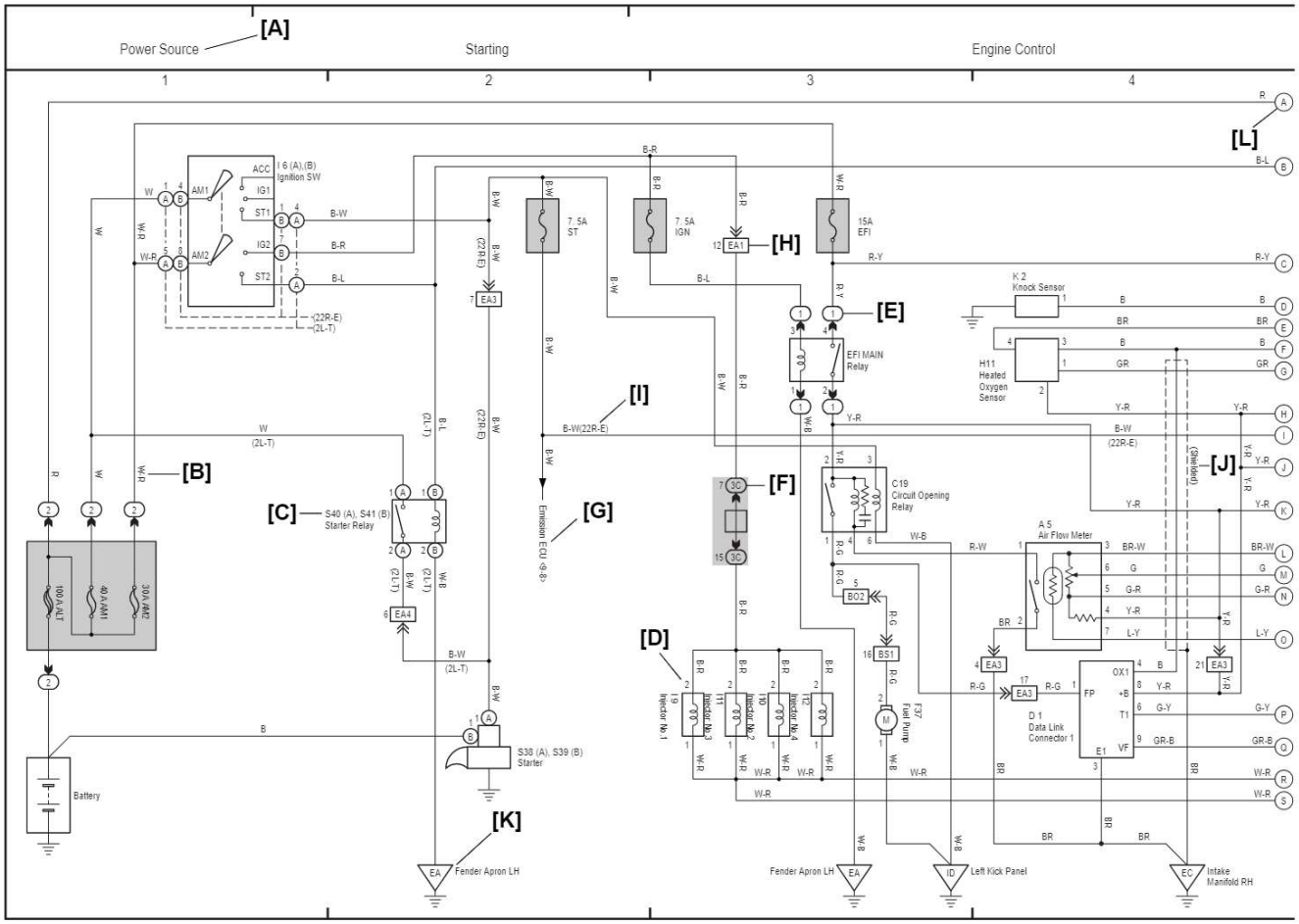
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
P15	Power Seat Control SW (Driver's Seat)	90980–10997
P16	Power Seat Control SW (Front Passenger's Seat)	
P17	Power Seat Motor (Driver's Seat Front Vertical Control)	90980–10825
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)	90980–10789
P29	Power Seat Motor (Driver's Seat Lumbar Support Control)	90980–10825
R 1	Radiator Fan Motor	90980–10928
R 2	Radio and Player	90980–10997
R 3	Radio and Player	90980–10996
R 4	Radio and Player (w/o Navigation System)	90980–12038
	Radio and Player with Display (w/ Navigation System)	
R 5	Rheostat	90980–11950
R 6	Rear Combination Light LH	90980–11587
R 7	Rear Combination Light RH	
R 8	Rear Speaker LH	90980–11299
R 9	Rear Speaker RH	
R10	Remote Control Mirror SW	90980–11657
R12	Radio and Player with Display	90980–11909
R13	Radio and Player (w/o Navigation System)	90980–12259
	Radio and Player with Display (w/ Navigation System)	
S 1	Skid Control ECU with Actuator (TMC Made w/o VSC)	90980–12020
	Skid Control ECU with Actuator (TMMK Made w/o VSC)	90080–98317
	Skid Control ECU with Actuator (w/ VSC)	90980–12297
S 2	Starter	90980–11400
S 3	Starter	90980–09463
S 4	Seat Heater SW (Driver's Seat)	90980–10964
S 5	Seat Heater SW (Front Passenger's Seat)	90980–10933
S 6	Shift Lock Control ECU	90980–11909

Code	Part Name	Part Number
S11	Steering Sensor	82824–45030
S12	Stereo Component Amplifier	90980–10848
S13	Stereo Component Amplifier	90980–10807
S14	Stop Light SW	90980–11118
S15	Side Airbag Sensor LH	90980–12241
S16	Side Airbag Sensor RH	
S17	Seat Heater LH	90980–10906
S18	Seat Heater RH	
S19	Side Airbag Squib LH	90980–11864
S20	Side Airbag Squib RH	
T 1	Theft Deterrent Horn	90980–10619
T 4	Turbine Speed Sensor	90980–11156
T 5	Theft Deterrent ECU	90980–11423
T 6	TRAC OFF SW	90980–11013
T 7	Turn Signal Flasher Relay	90980–10799
T 9	Tweeter LH	90980–11013
T10	Tweeter RH	
T11	Transponder Key Computer (TMC Made)	90980–12423
	Transponder Key Computer (TMMK Made)	90980–11911
T12	Throttle Control Motor	90980–11858
	Throttle Position Sensor	
U 1	Unlock Warning SW	90980–10860
V 3	VSV (AICV)	90980–11156
V 4	VSV (Canister Closed Valve)	90980–11859
V 6	VSV (EVAP)	90980–11156
V 7	VVT Solenoid	90980–11162
V 8	VSC Warning Buzzer	90980–10906
V 9	Vanity Light LH	90980–10621
V10	Vanity Light RH	
V11	Vapor Pressure Sensor (TMC Made)	90980–11143
	Vapor Pressure Sensor (TMMK Made)	90980–11860
V13	VSV (ACIS No.1)	90980–11149
V14	VSV (ACIS No.2)	
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.



[A] : System Title

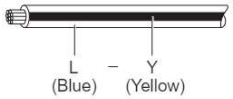
[B] : Indicates the wiring color.

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.

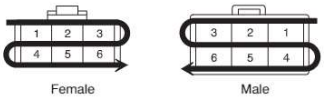
Example: L – Y



[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



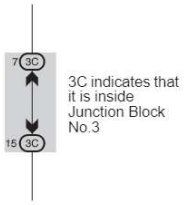
The numbering system for the overall wiring diagram is the same as above

[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

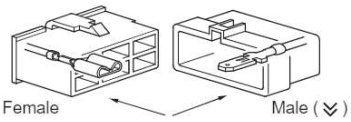
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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 occuring on the next page indicates that the wire harness is continuous.

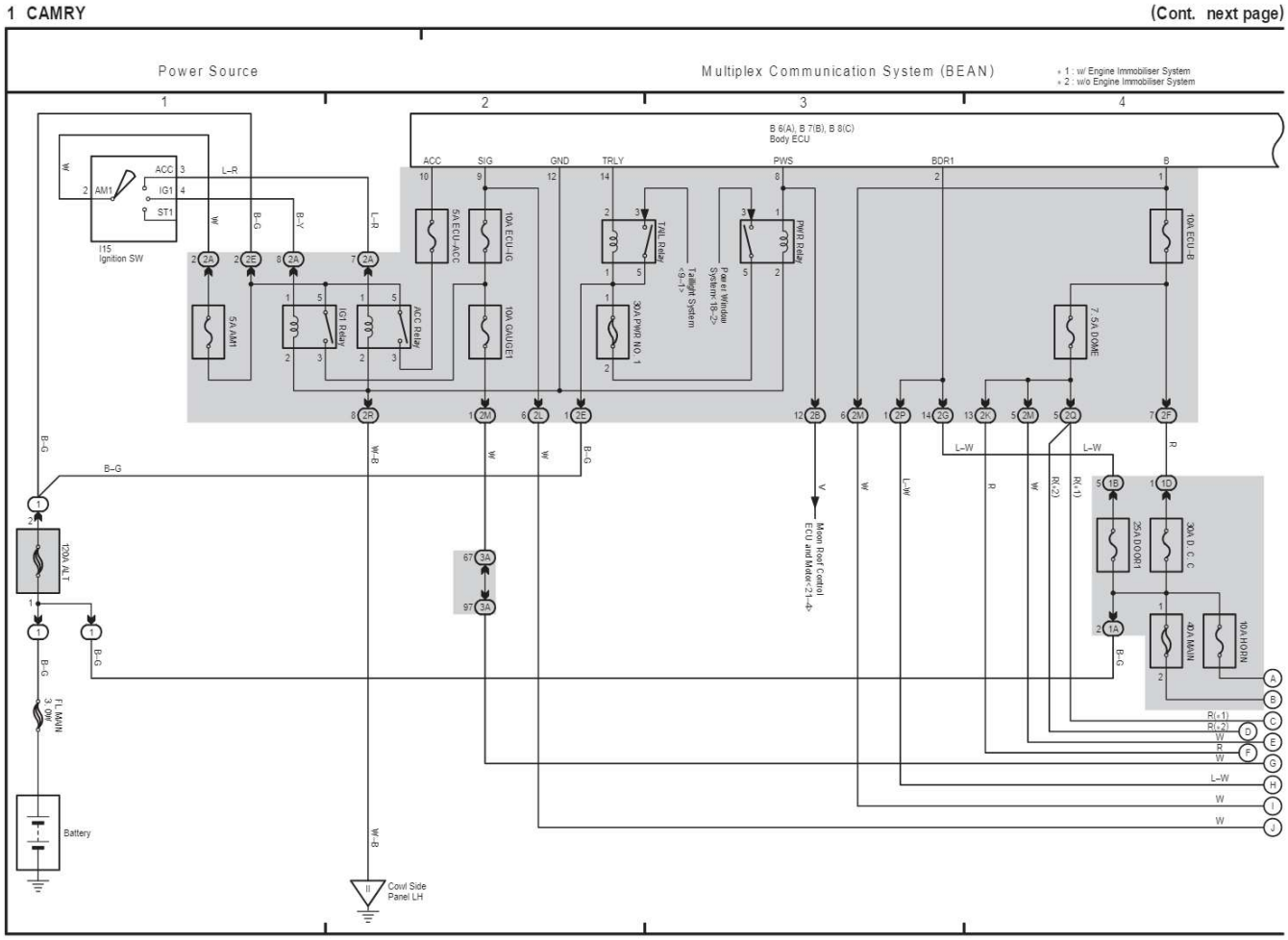
SYSTEM INDEX

SYSTEMS	LOCATION
ABS (w/ VSC)	13–4
ABS (w/o VSC TMC Made)	14–2
ABS (w/o VSC TMMK Made)	15–2
Audio System (Built–in Type Amplifier w/o Navigation System)	29–3
Audio System (Separate Type Amplifier w/o Navigation System)	28–2
Audio System (w/ Navigation System)	27–2
Automatic Air Conditioning (1MZ–FE)	32–2
Automatic Air Conditioning (2AZ–FE)	33–2
Automatic Glare–Resistant EC Mirror	21–3
Back–Up Light	12–2
Charging	4–2
Cigarette Lighter	23–2
Clock	26–2
Combination Meter	30–2
Cruise Control (1MZ–FE, 3MZ–FE)	5–18
Cruise Control (2AZ–FE)	6–18
Electronically Controlled Transmission and A/T Indicator (1MZ–FE, 3MZ–FE)	7–2
Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	8–2
Engine Control (1MZ–FE, 3MZ–FE)	5–8
Engine Control (2AZ–FE)	6–8
Engine Immobiliser System (1MZ–FE, 3MZ–FE)	5–3
Engine Immobiliser System (2AZ–FE)	6–4
Fog Light	12–4
Horn	17–4
Ignition (1MZ–FE, 3MZ–FE)	2–2
Ignition (2AZ–FE)	3–2
Illumination	10–2
Manual Air Conditioning (1MZ–FE, 3MZ–FE)	34–3
Manual Air Conditioning (2AZ–FE)	35–3
Mirror Heater	20–4

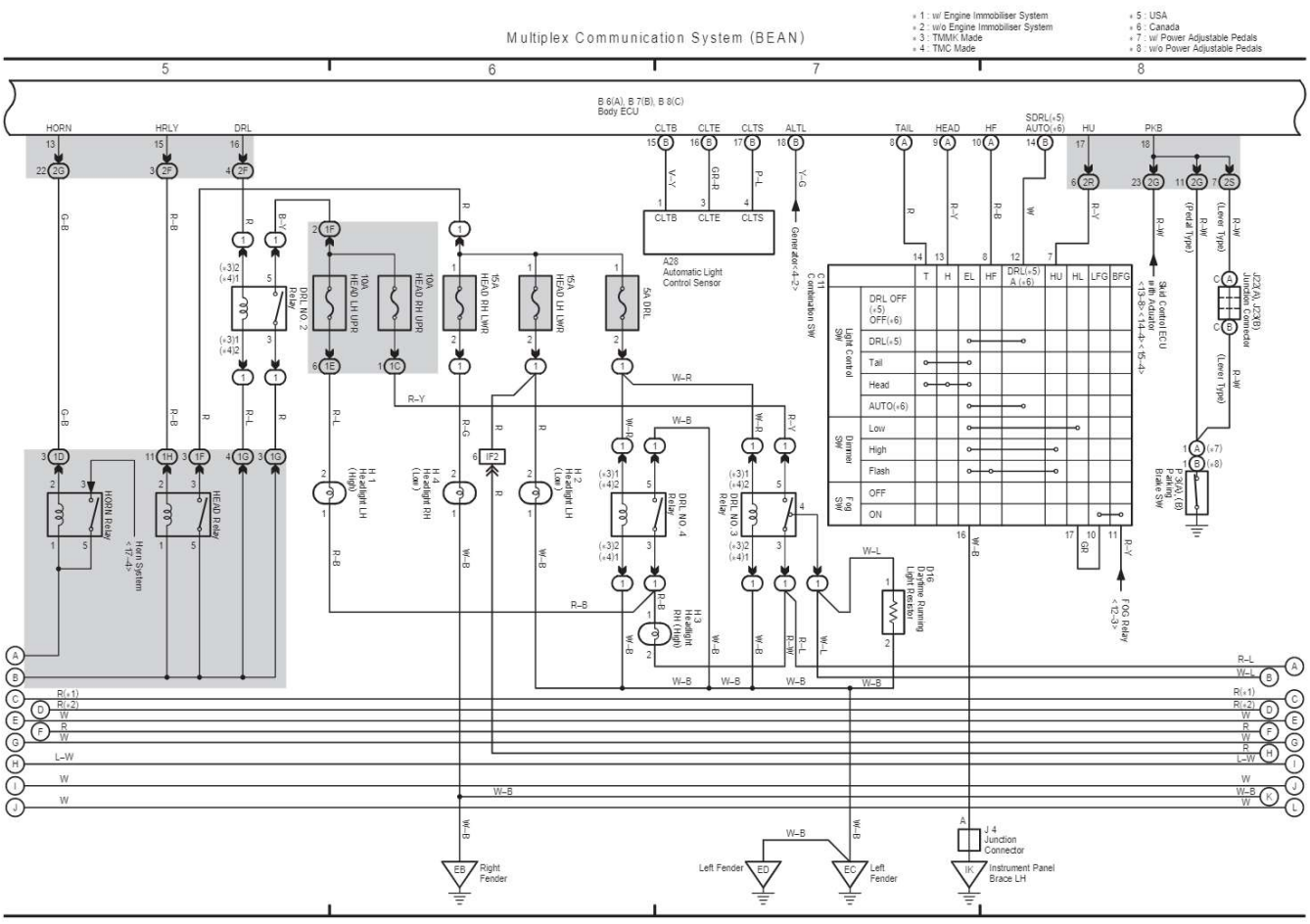
SYSTEMS	LOCATION
Moon Roof	21–4
Multiplex Communication System (BEAN)	1–2
∗ Automatic Light Control	
∗ Door Lock Control	
∗ Garage Door Opener	
∗ Headlight	
∗ Interior Light	
∗ Key Reminder	
∗ Light Auto Turn Off System	
∗ Theft Deterrent	
∗ Wireless Door Lock Control	
Multiplex Communication System (CAN)	13–11
Navigation System	27–2
Power Adjustable Pedals	25–2
Power Outlet	23–2
Power Seat	24–2
Power Source	1~35–1
Power Window	18–3
Radiator Fan and Condenser Fan	31–2
Rear Window Defogger	20–3
Remote Control Mirror	19–3
Seat Belt Warning	17–2
Seat Heater	23–4
Shift Lock	23–3
SRS	16–2
Starting (1MZ–FE, 3MZ–FE)	2–2
Starting (2AZ–FE)	3–2
Stop Light	9–3
Taillight	9–2
TRAC	13–4
Turn Signal and Hazard Warning Light	11–2
VSC	13–4
Wiper and Washer	22–3

1 CAMRY

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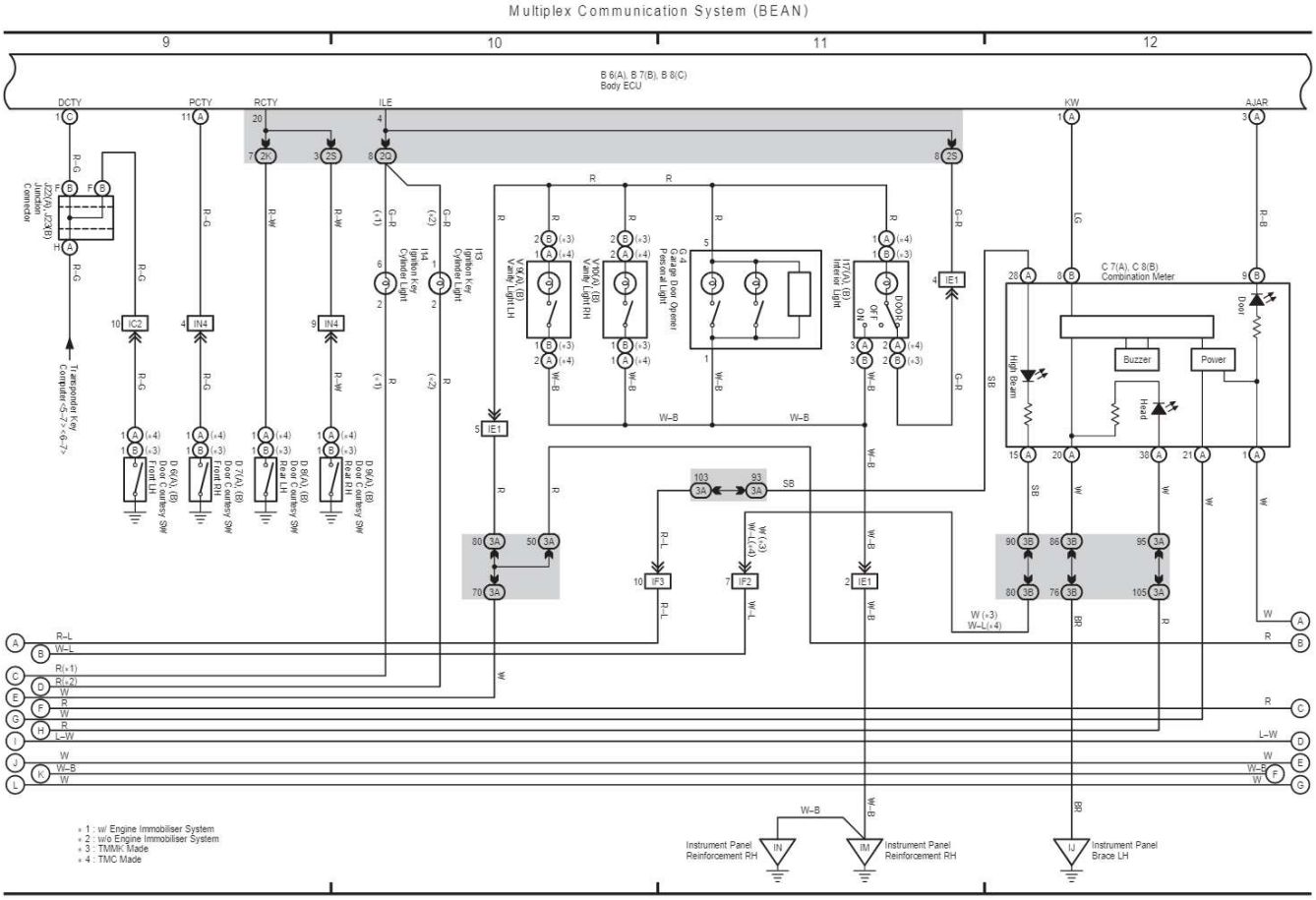


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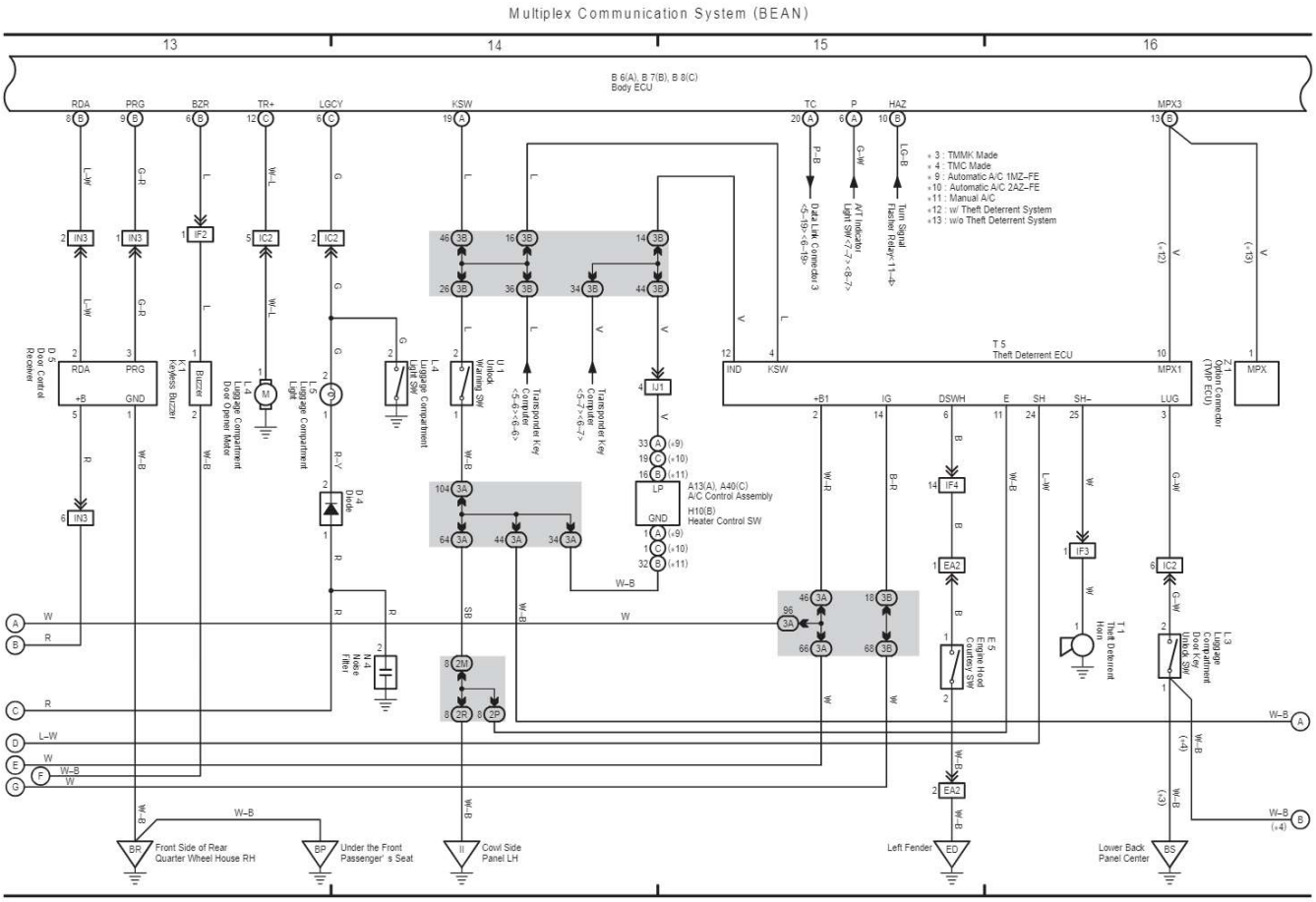


1 CAMRY (Cont' d)

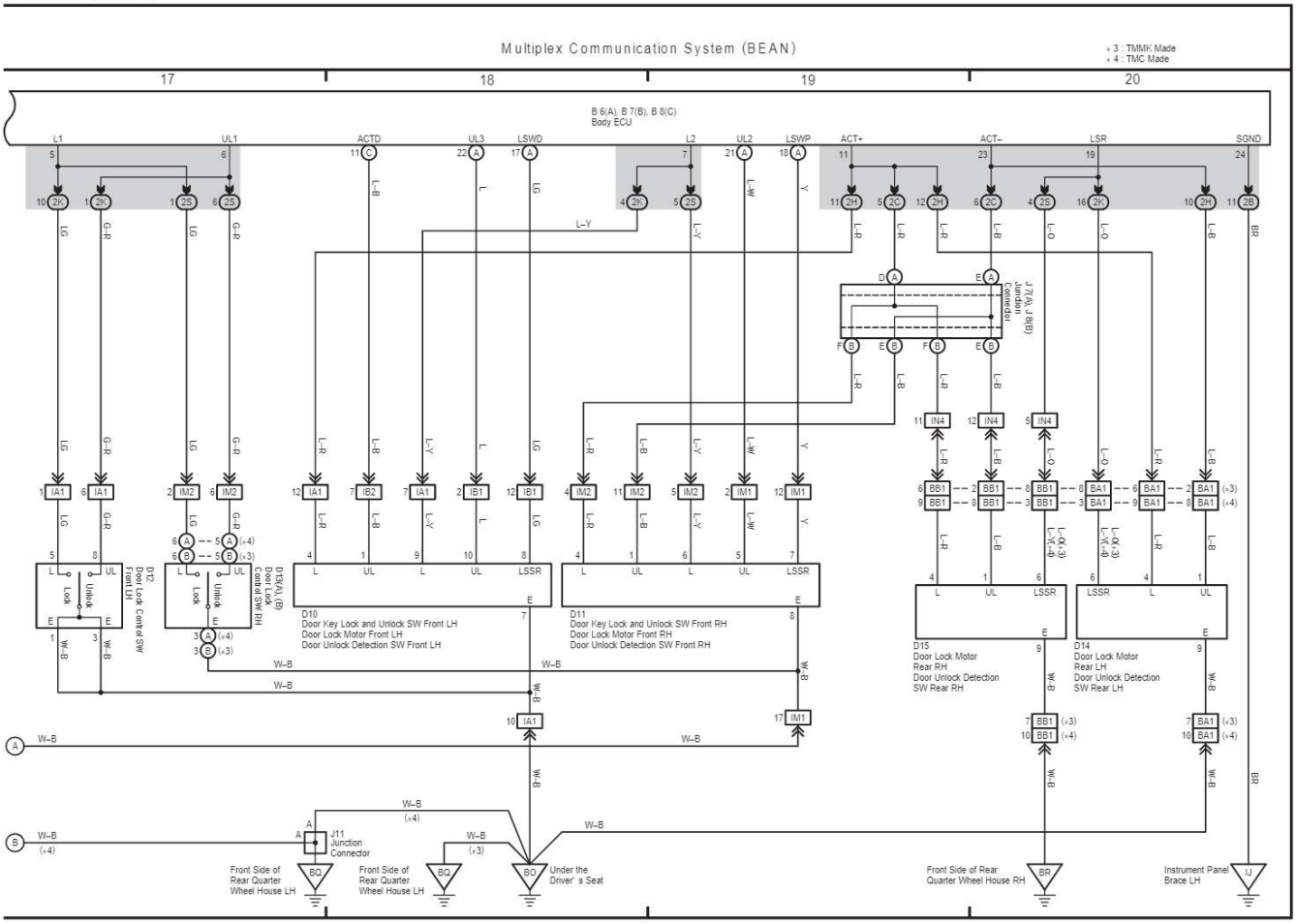
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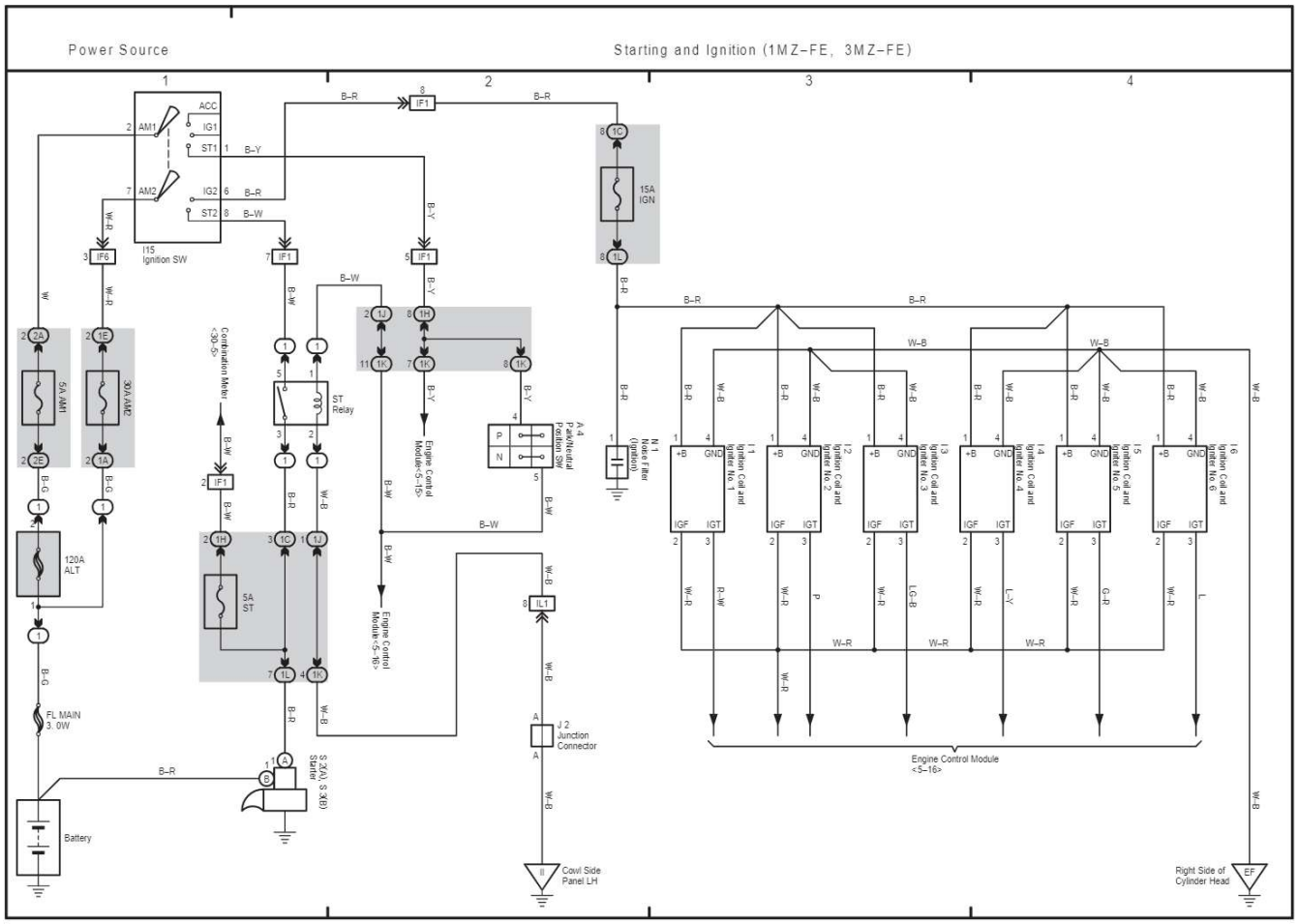


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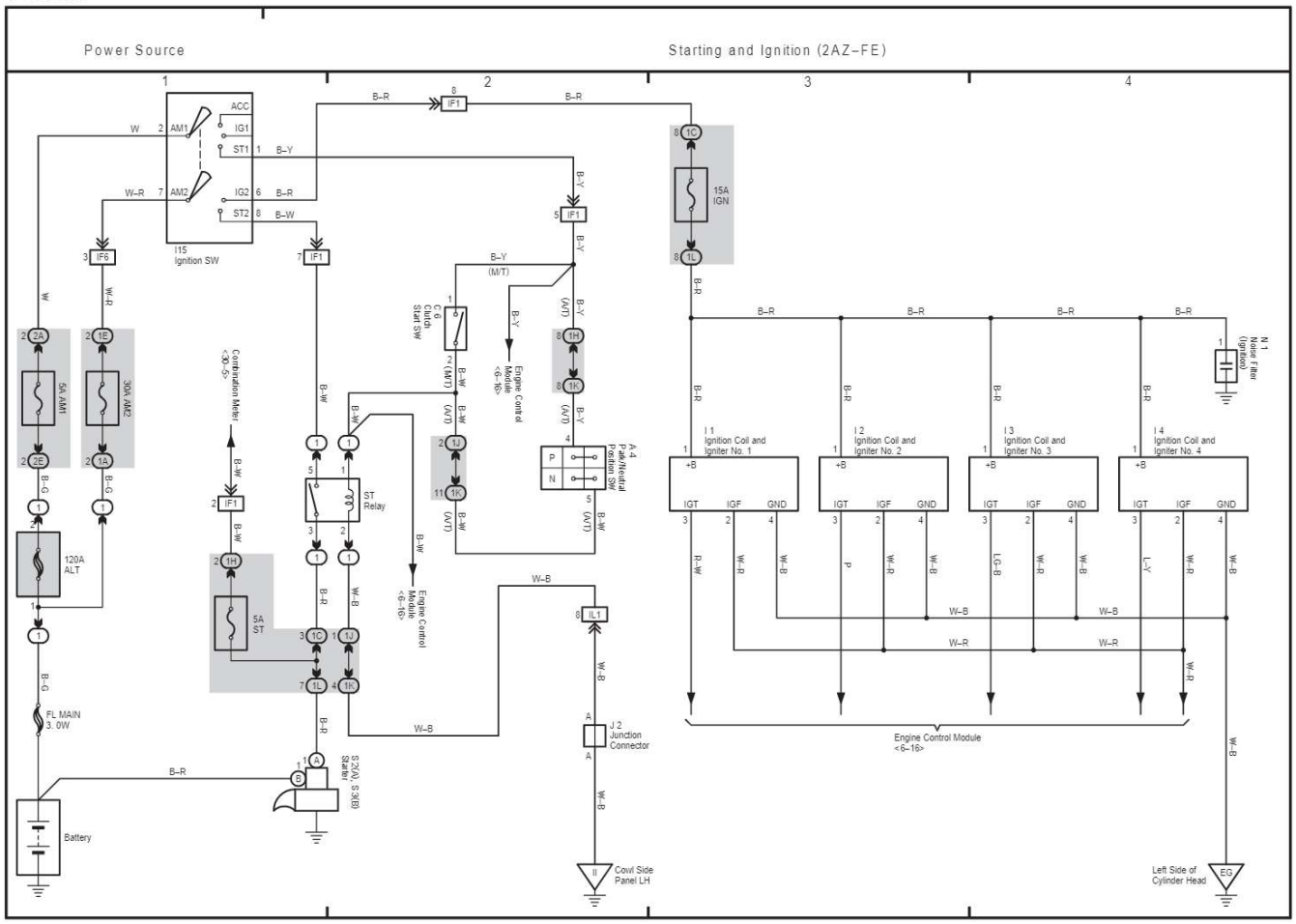


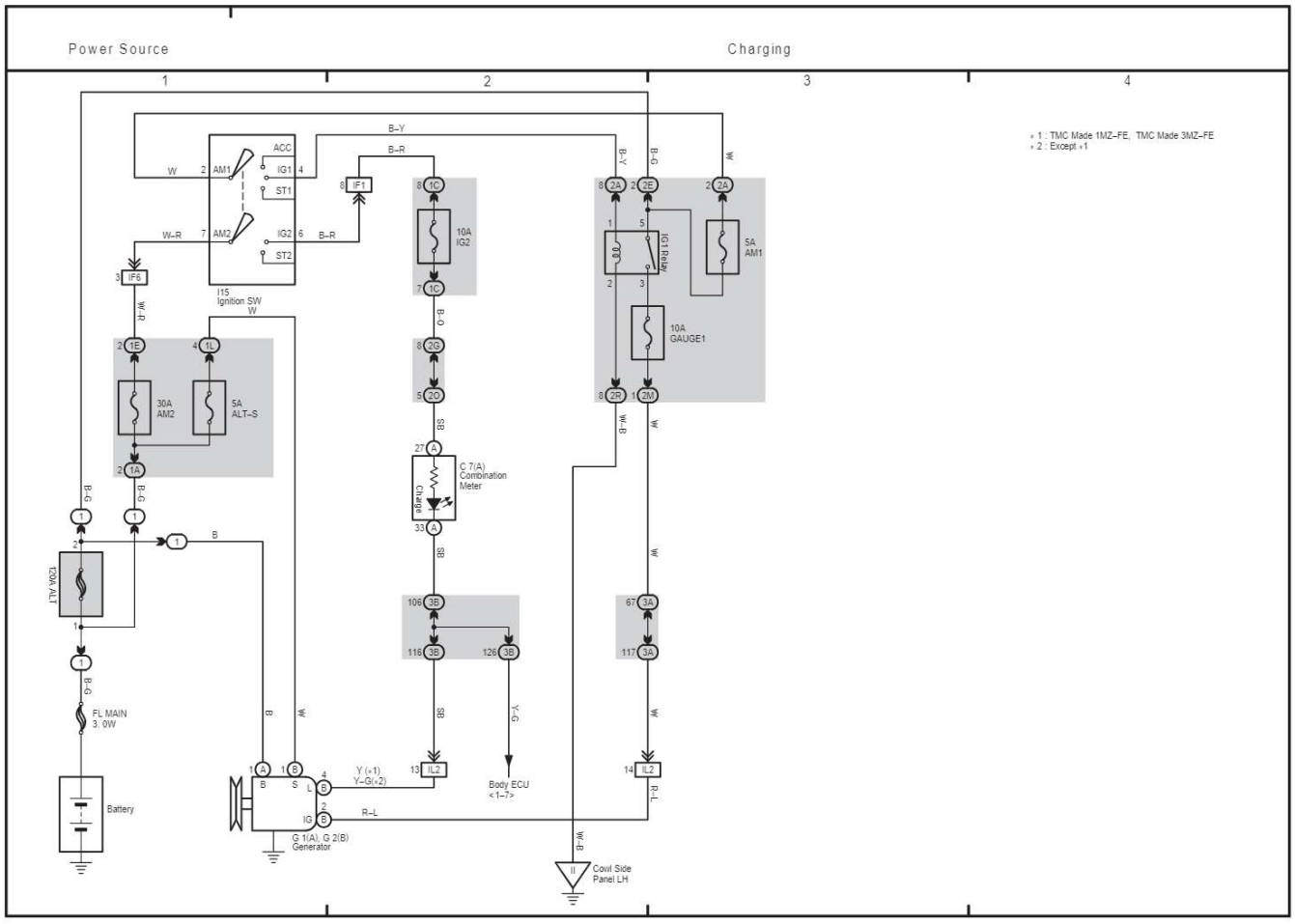
1 CAMRY (Cont' d)




Power Source
Starting and Ignition (1MZ–FE, 3MZ–FE)
1
2
3
4
ACC
IG1
ST1
IG2
ST2
AM1
AM2
I15 Ignition SW
15A IGN
5A AM1
30A AM2
120A ALT
5A ST
ST Relay
Combination Meter <3-3>
Engine Control Module <5-15>
Engine Control Module <5-16>
A 4 Park/Neutral Position SW
N 1 Noise Filter (Option)
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
J 2 Junction Connector
FL MAIN 3.0W
Battery
S 2(A), S 3(B) Starter
Cowl Side Panel LH
Right Side of Cylinder Head
Engine Control Module <5–16>

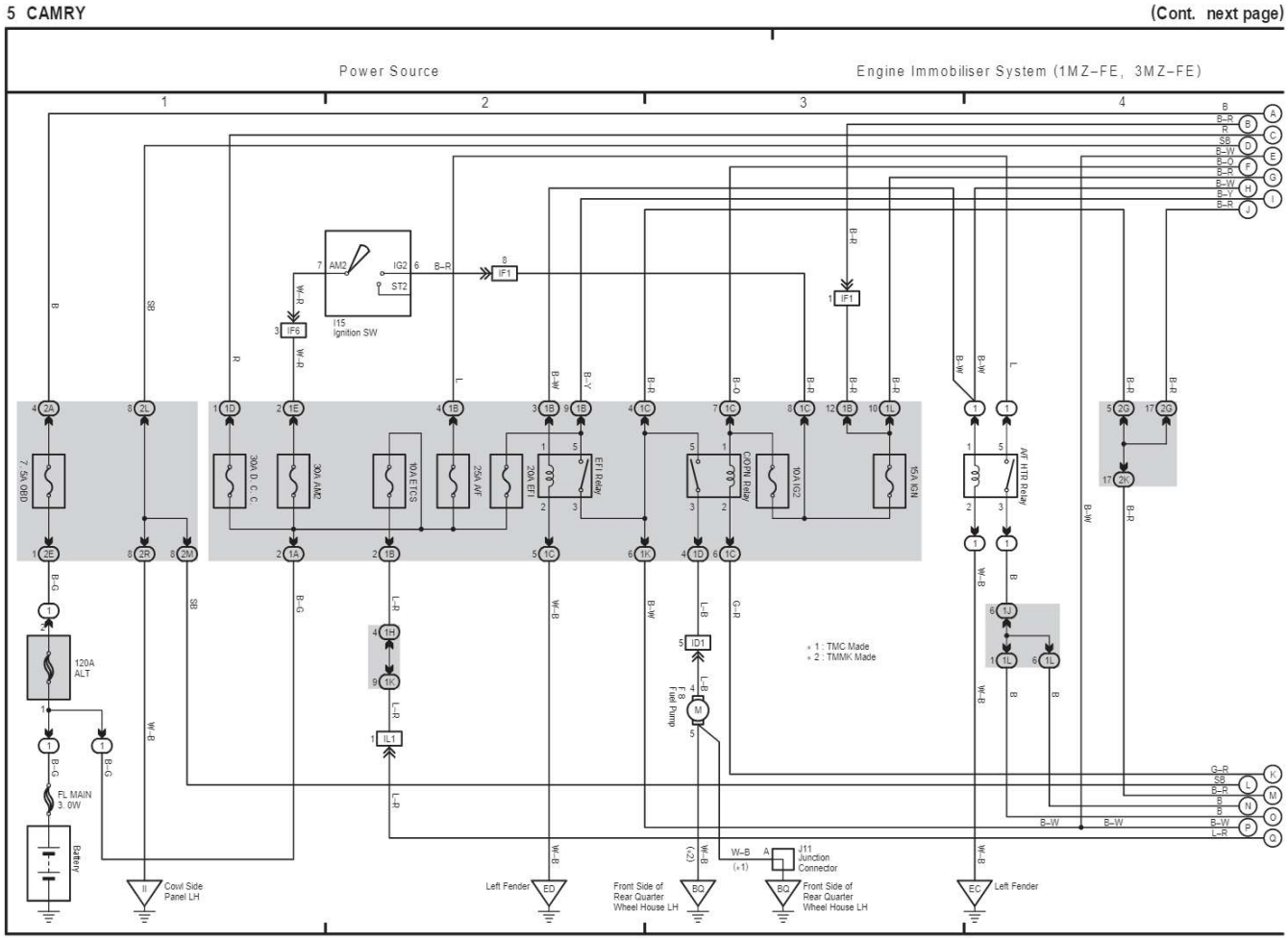
3 CAMRY


Power Source
Starting and Ignition (2AZ–FE)
1
2
3
4
I15 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
5A AM1
30A AM2
120A ALT
FL MAIN 3.0W
Battery
S2(A) S3(B) Starter
Combination Meter <30–5>
ST Relay
5A ST
C6 Clutch Start SW
Engine Control Module <6–16>
A4 Park/Neutral Position SW
15A IGN
I1 Ignition Coil and Igniter No. 1
I2 Ignition Coil and Igniter No. 2
I3 Ignition Coil and Igniter No. 3
I4 Ignition Coil and Igniter No. 4
IGT
IGF
GND
N1 Noise Filter (Ignition)
J2 Junction Connector
Cowl Side Panel LH
Left Side of Cylinder Head
EG

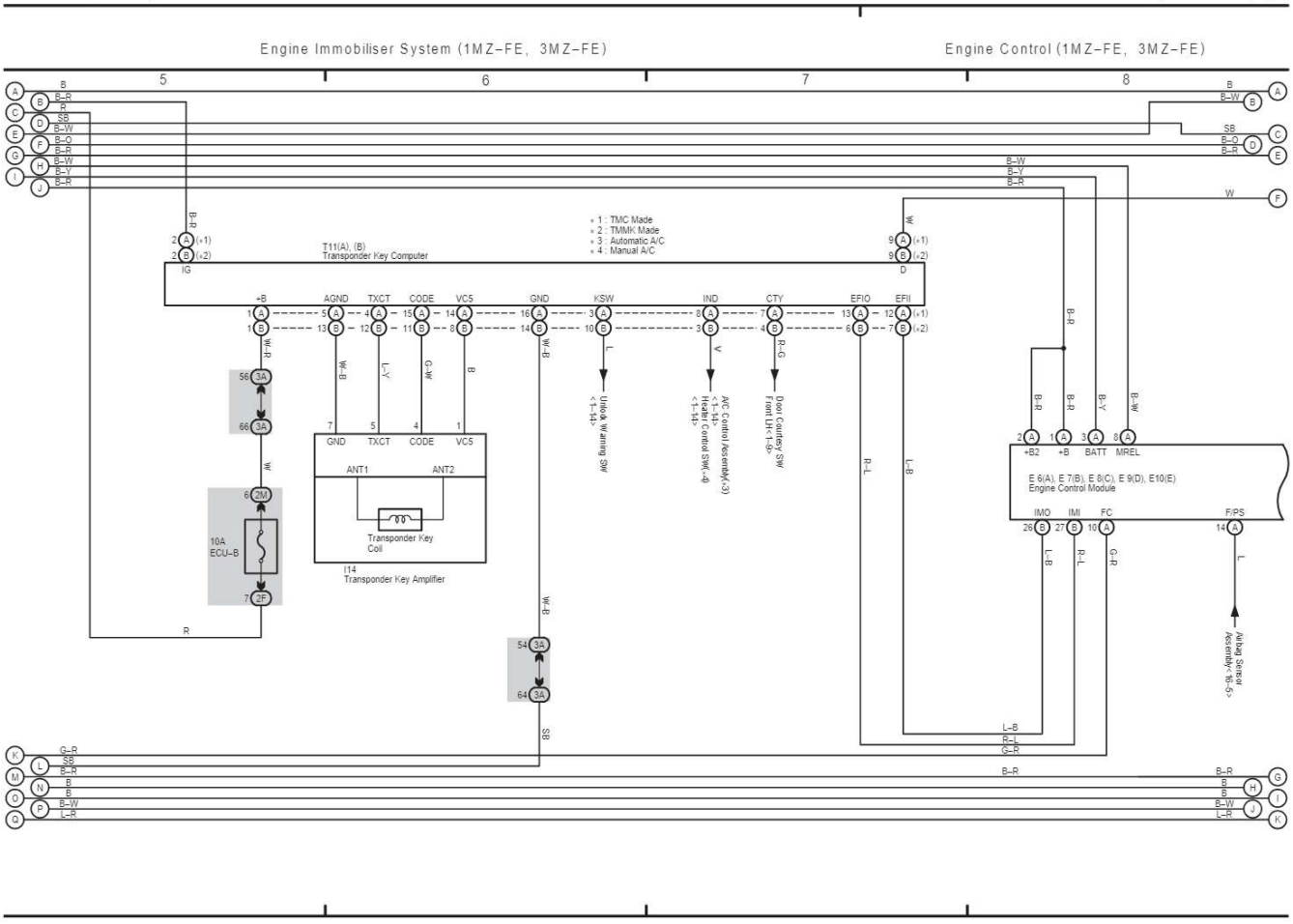

Power Source
Charging
1
2
3
4
* 1 : TMC Made 1MZ–FE, TMC Made 3MZ–FE
* 2 : Except *1
ACC
IG1
ST1
IG2
ST2
AM1
AM2
I15
Ignition SW
W
IF1
IF6
10A
IG2
30A
AM2
5A
ALT–S
1E
1L
1A
1C
2G
2O
IG1 Relay
5A
AM1
10A
GAUGE1
2A
2E
2R
2M
C 7(A)
Combination
Meter
Charge
2G
(120A ALT)
FL MAIN
3. 0W
Battery
G 1(A), G 2(B)
Generator
Body ECU
<1–7>
IL2
3A
3B
Cowl Side
Panel LH
B–Y
B–R
B–V
G–B
W–R
W–B
B–G
R–L
Y–G
SB
B
W
Y (*1)
Y–G(*2)

5 CAMRY

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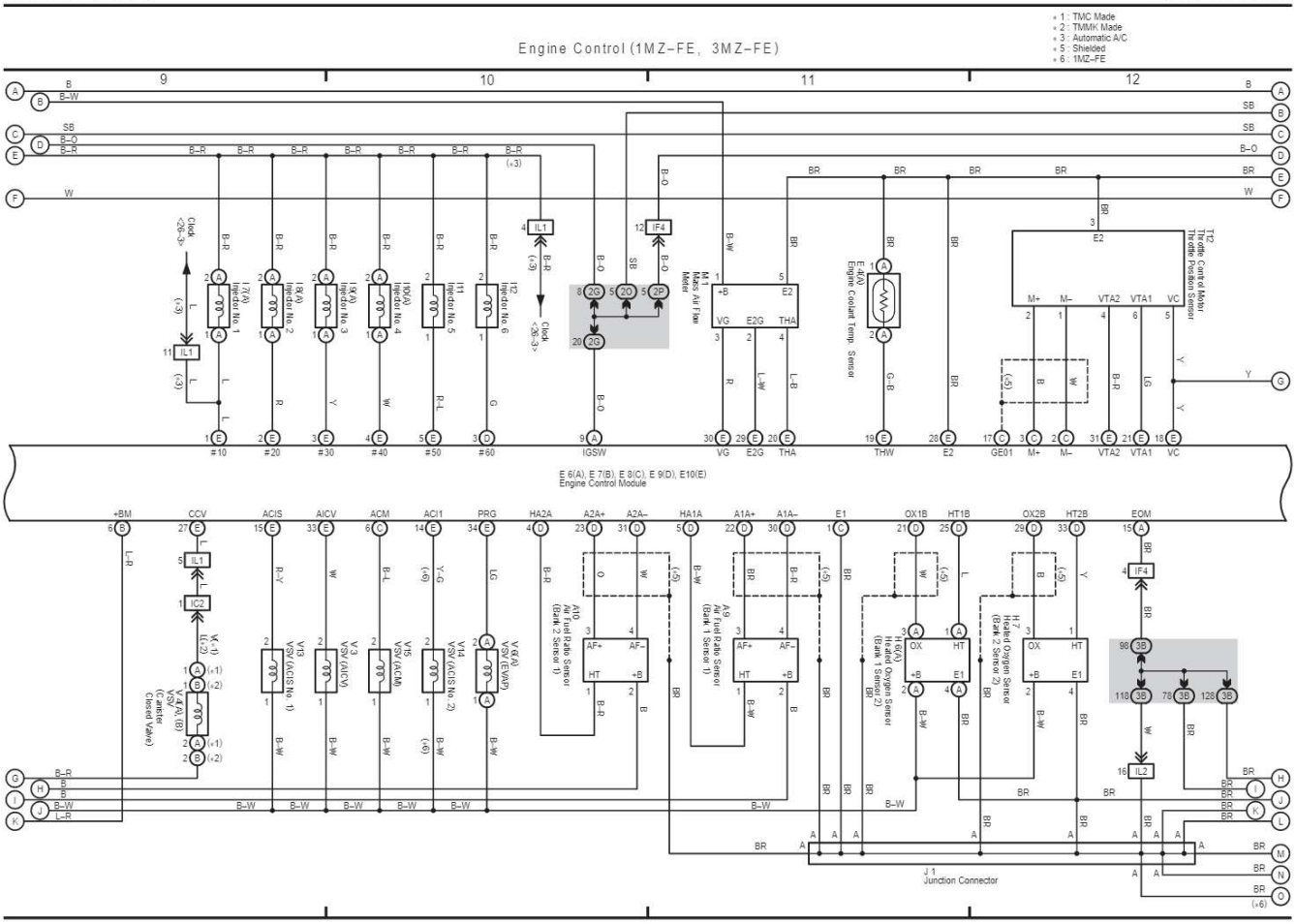


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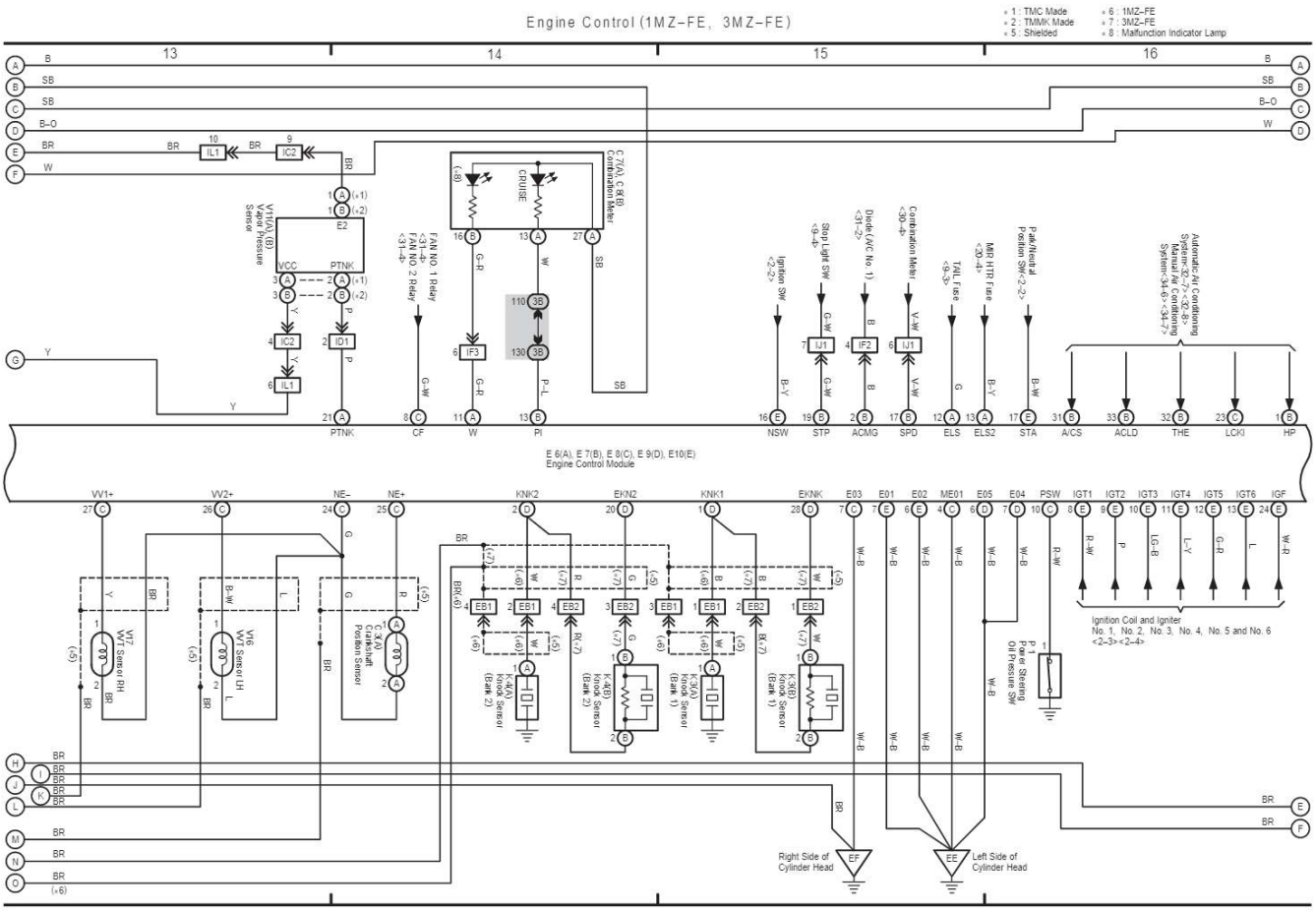


5 CAMRY (Cont' d)

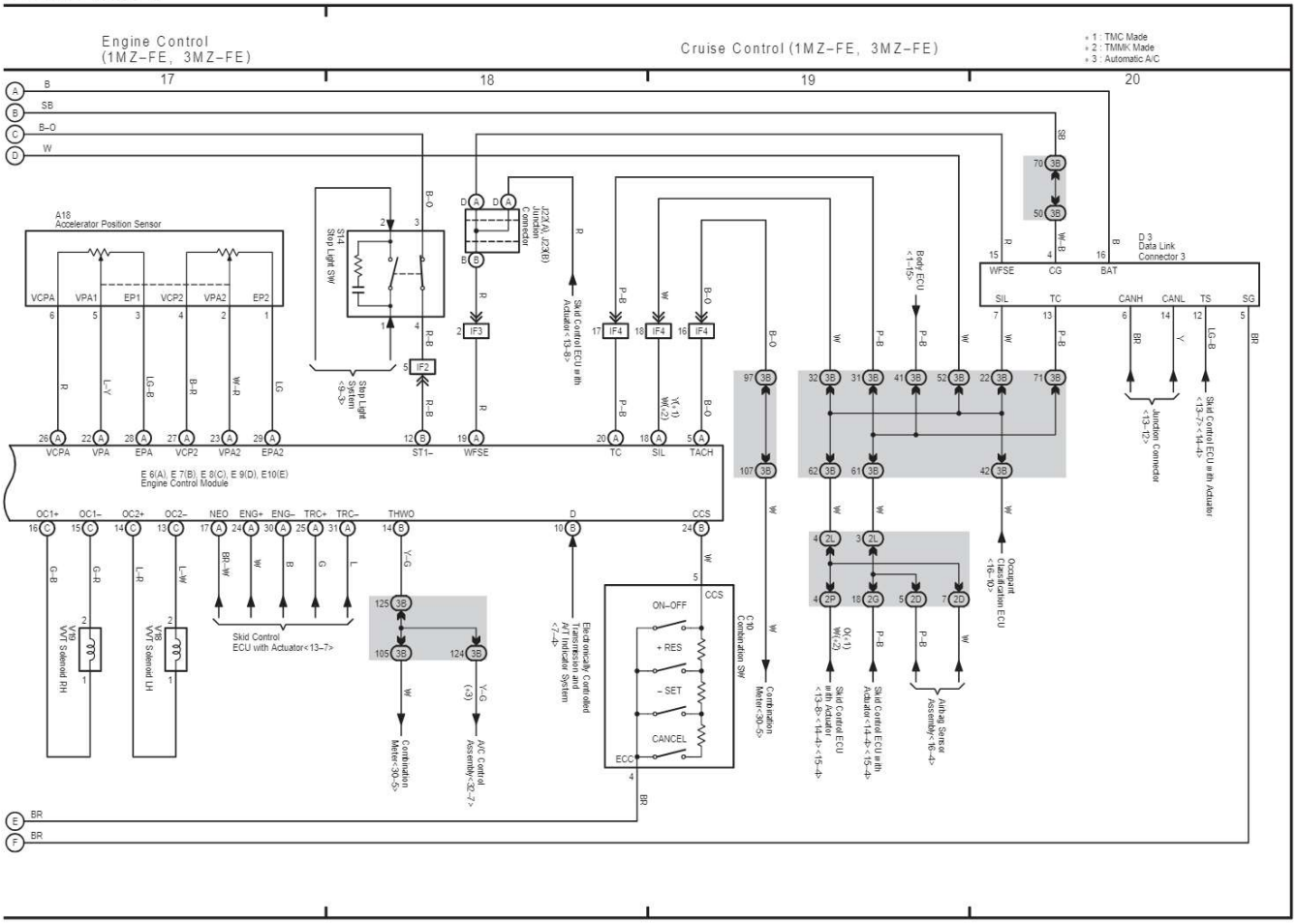
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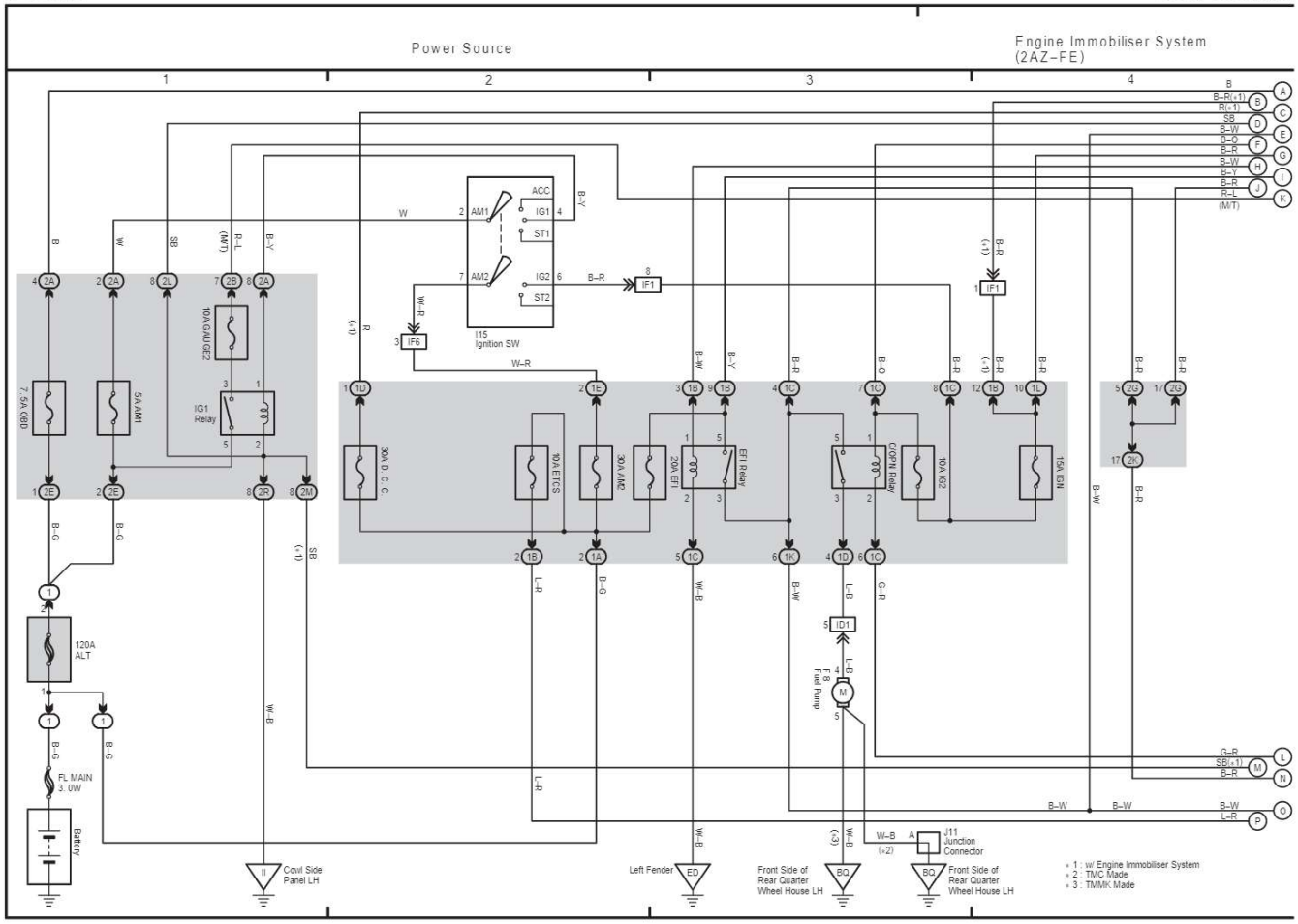


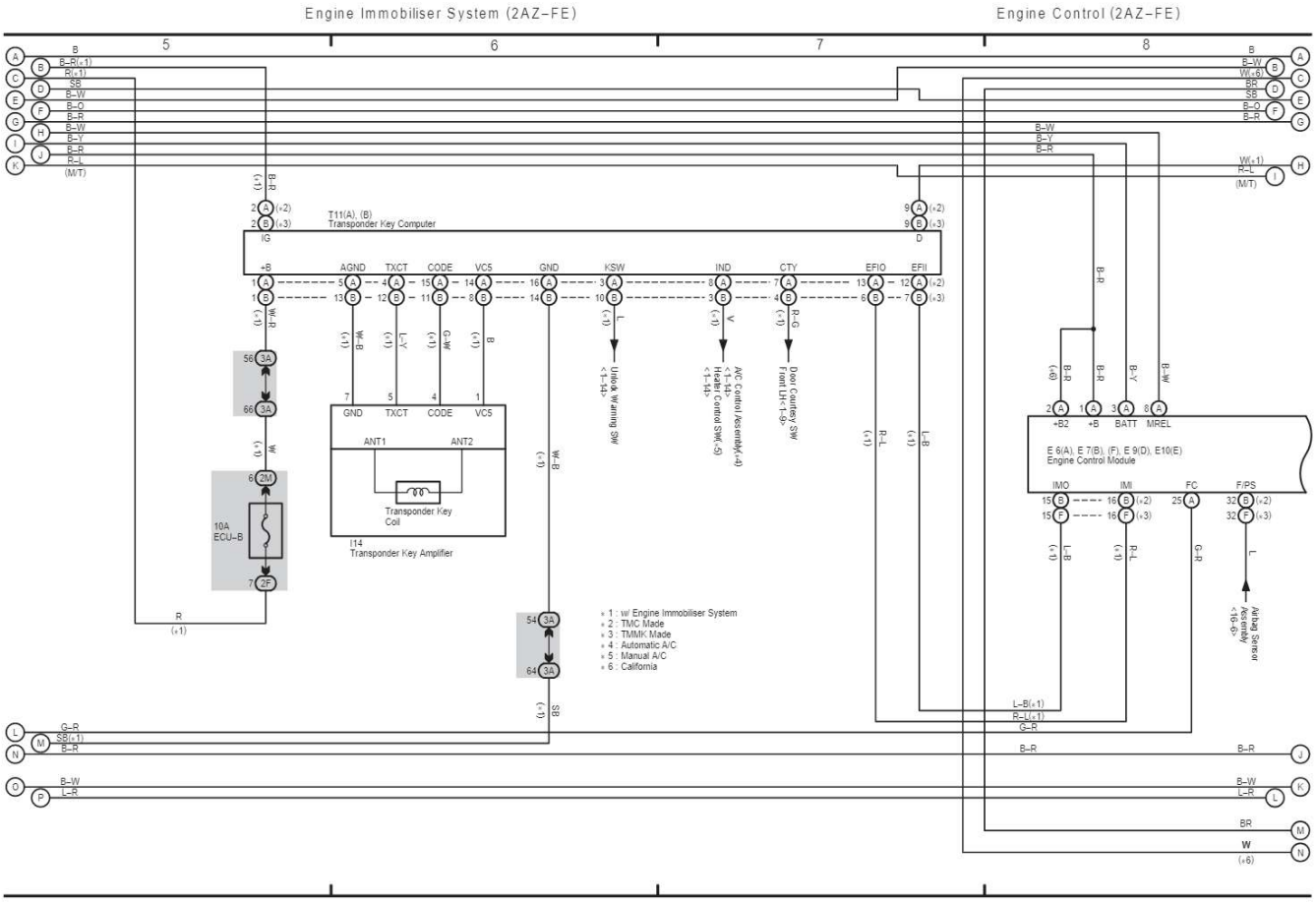
5 CAMRY (Cont' d)



6 CAMRY

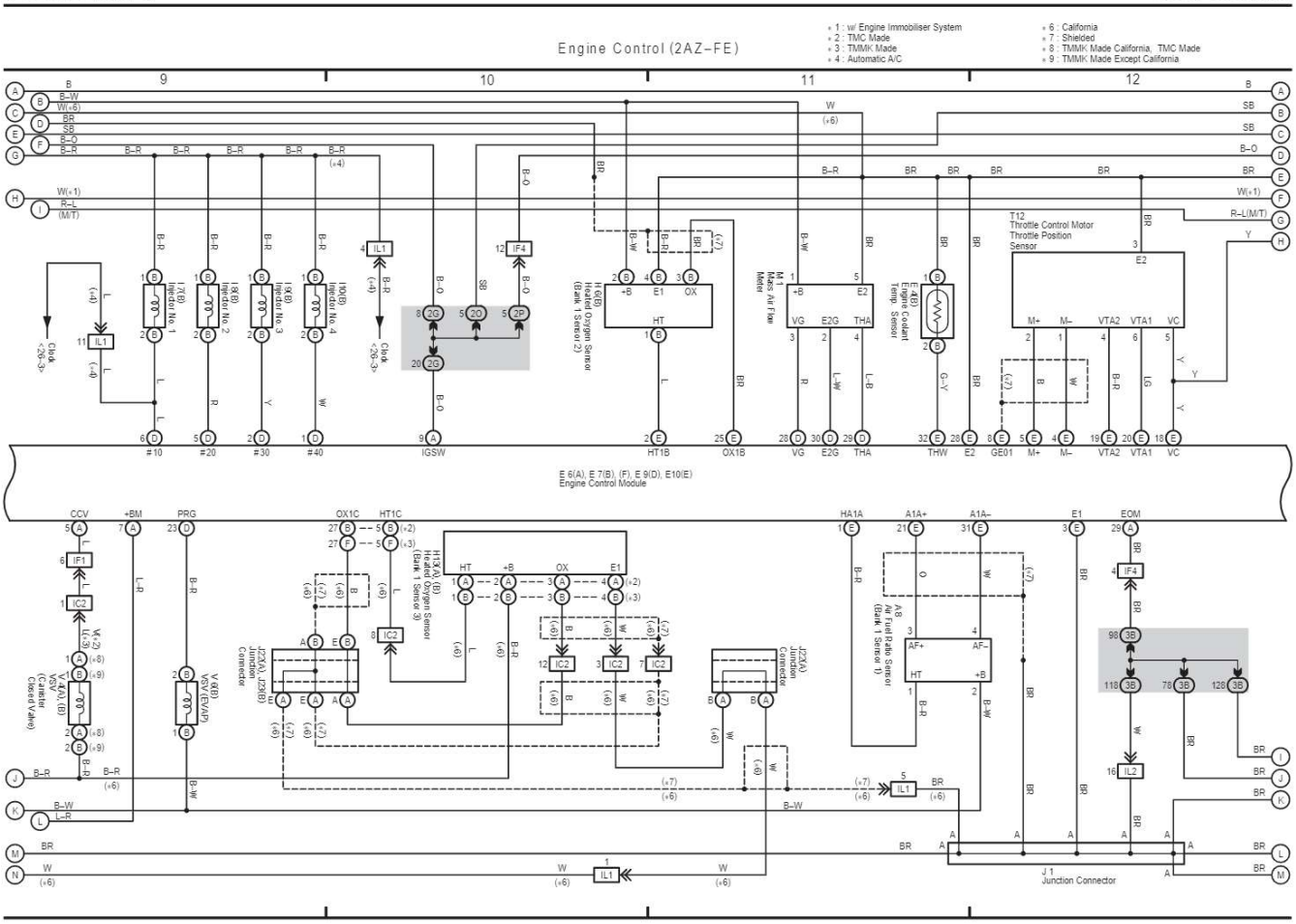
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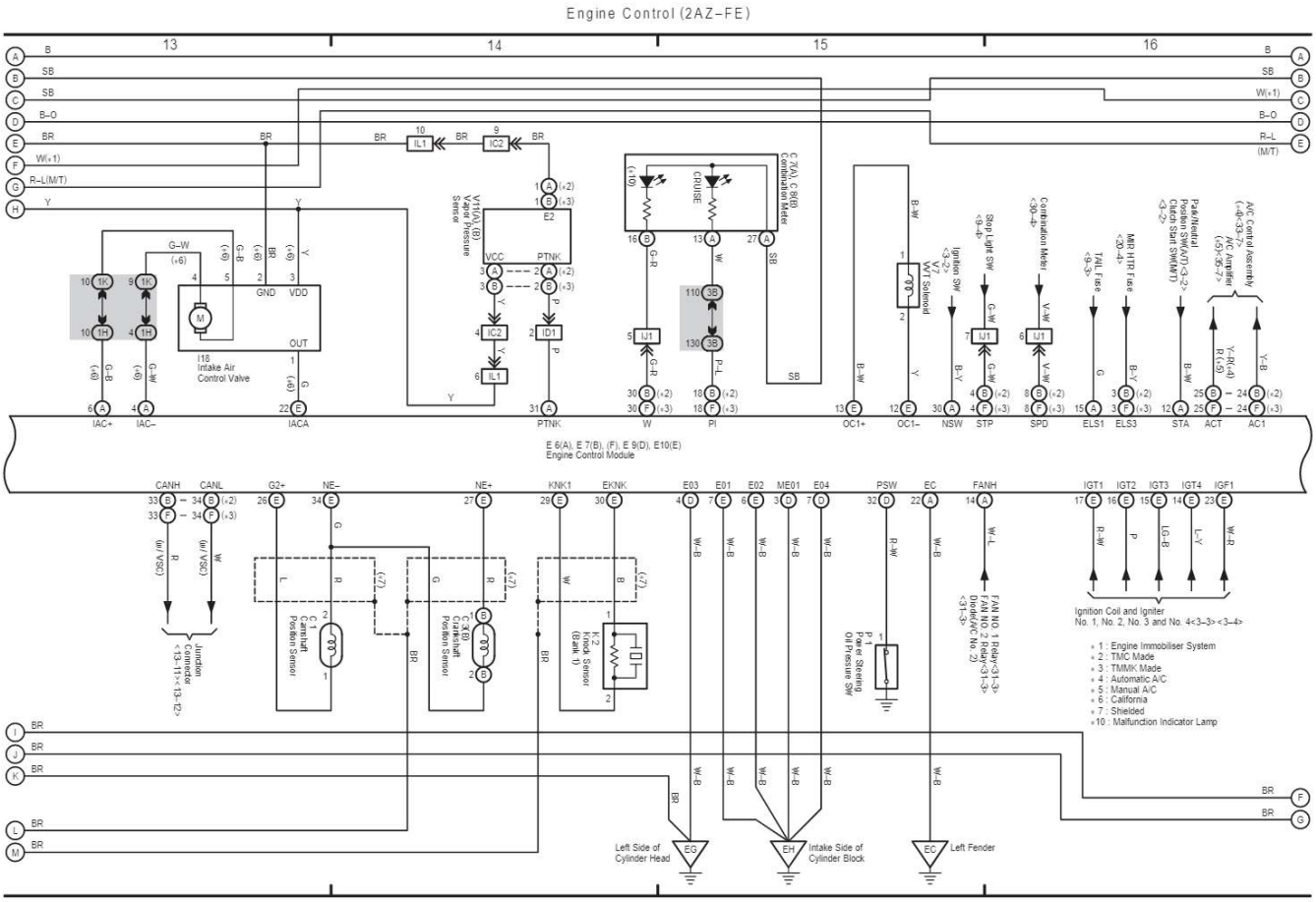

Engine Immobiliser System (2AZ–FE)
Engine Control (2AZ–FE)
5
6
7
8
T11(A), (B)
Transponder Key Computer
+B
AGND
TXCT
CODE
VCS
GND
KSW
IND
CTY
EFIO
EFII
IG
D
GND
TXCT
CODE
VCS
ANT1
ANT2
Transponder Key Coil
I14
Transponder Key Amplifier
10A
ECU–B
Unlock Warning SW
<1–14>
A/C Control Assembly(–4)
Heater Control SW(–5)
<1–14>
Door Courtesy SW
Front LH<1–14>
E 6(A), E 7(B), (F), E 9(D), E10(E)
Engine Control Module
+B2
+B
BATT
MREL
IMO
IMI
FC
F/PS
Airbag Sensor Assembly
<16–6>
* 1 : w/ Engine Immobiliser System
* 2 : TMC Made
* 3 : TMMK Made
* 4 : Automatic A/C
* 5 : Manual A/C
* 6 : California

6 CAMRY (Cont' d)

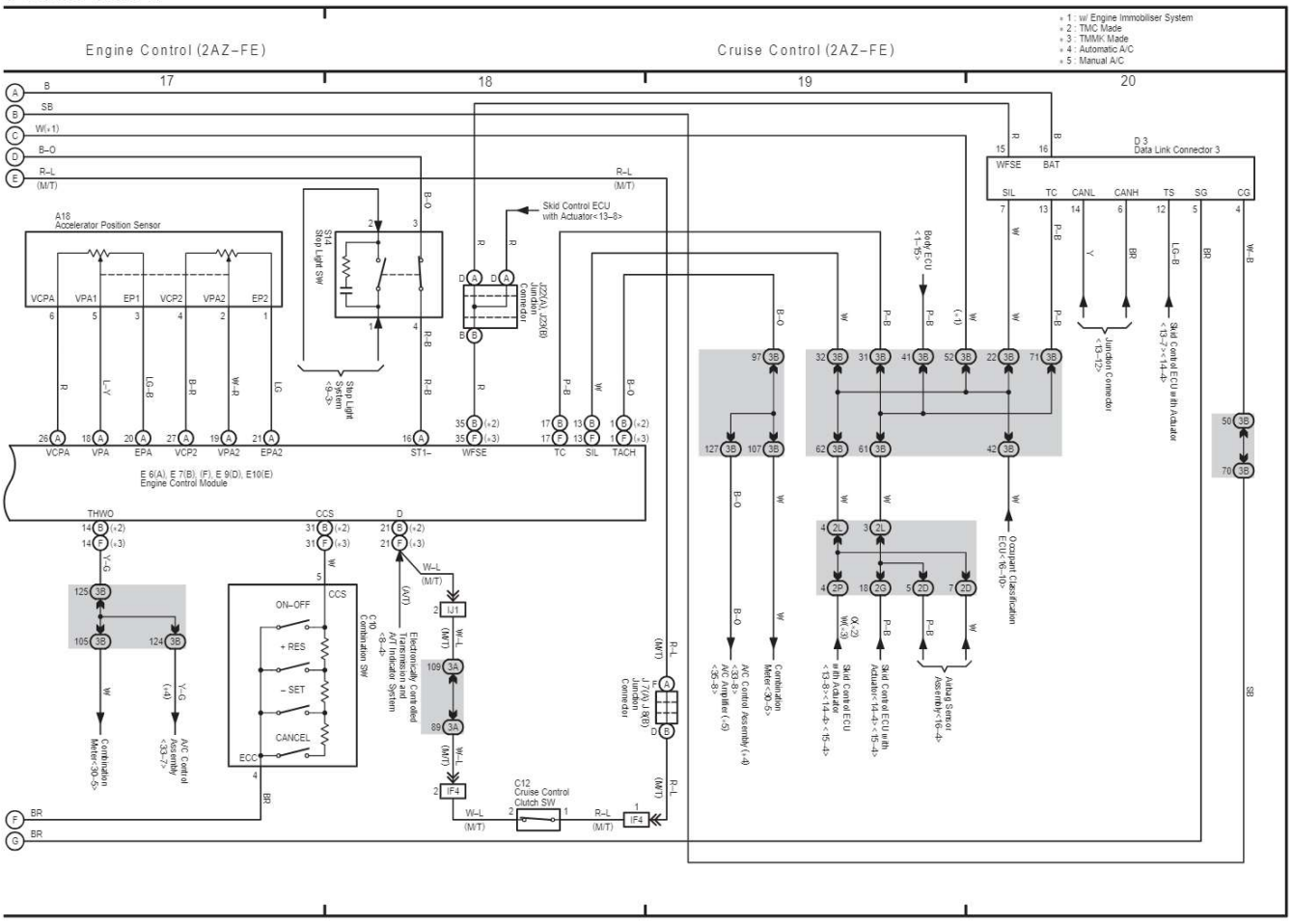
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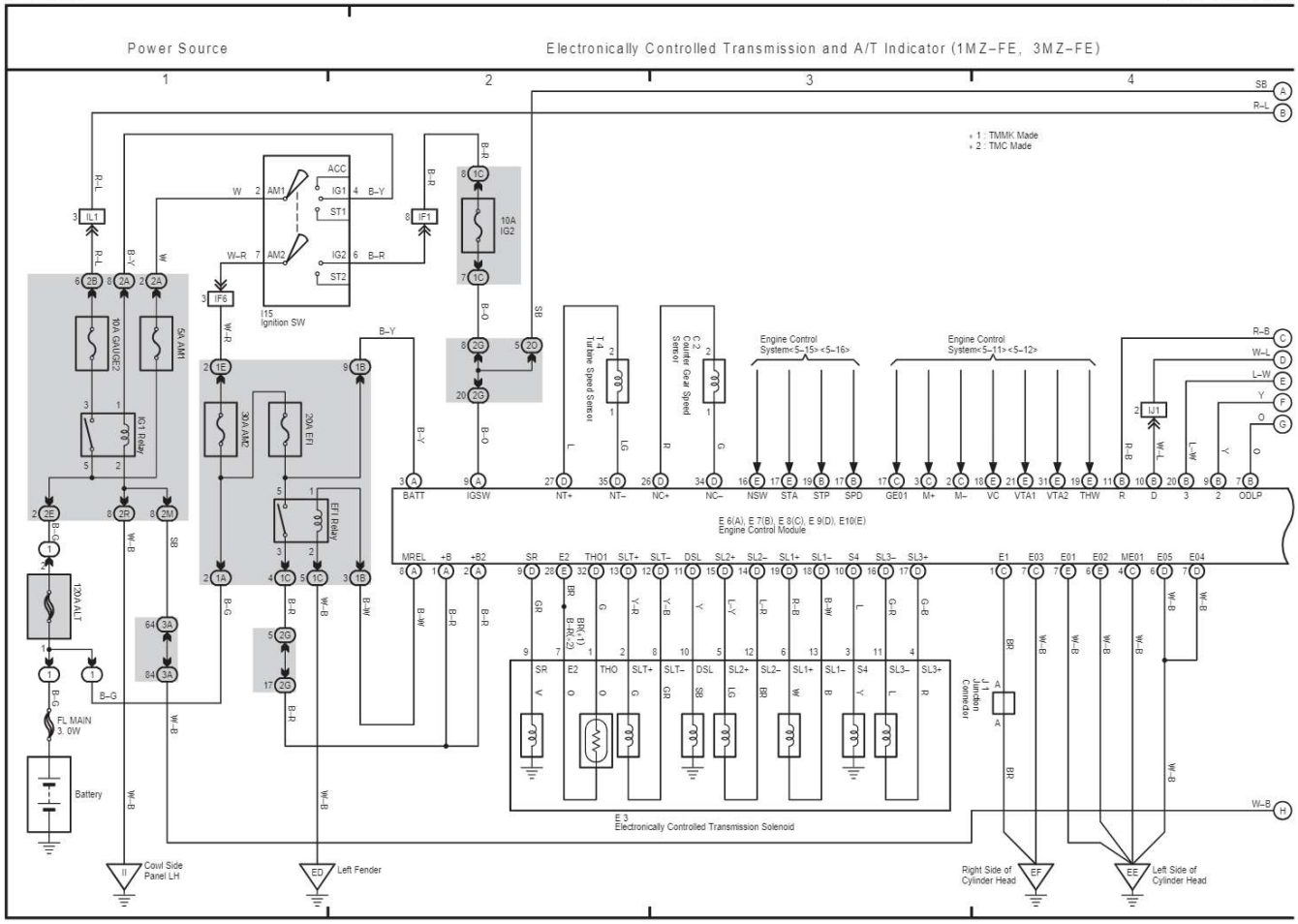
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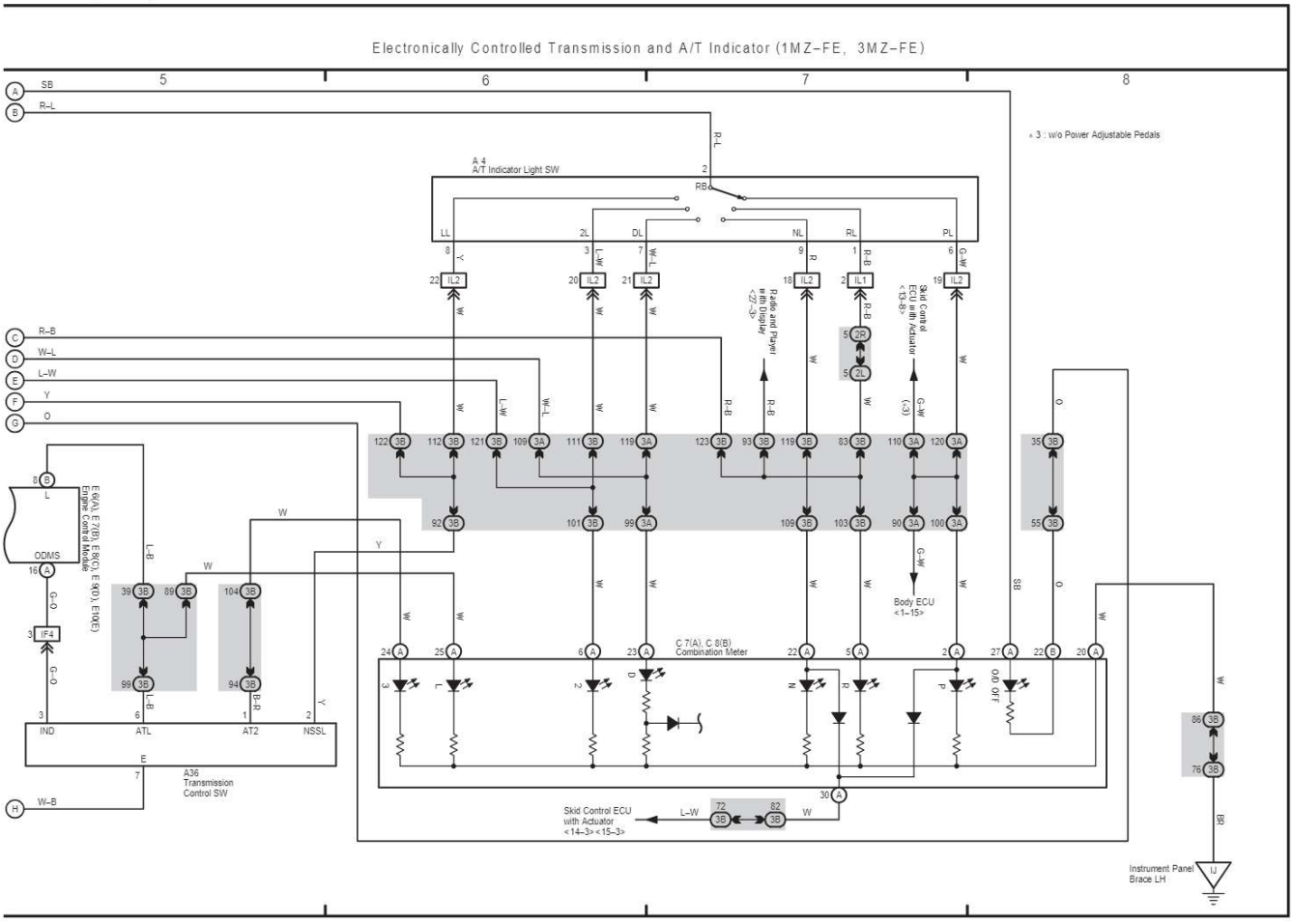


6 CAMRY (Cont' d)



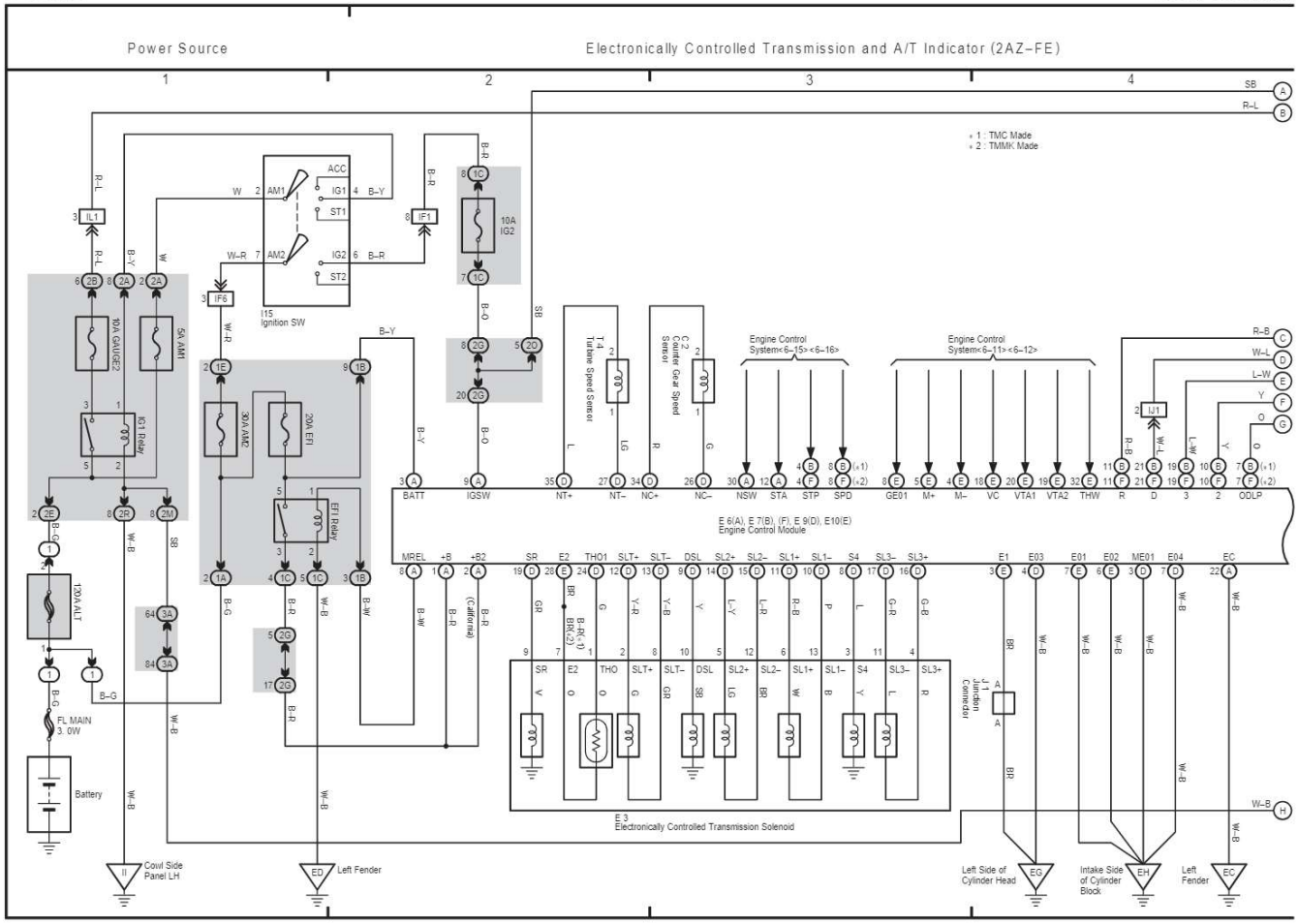
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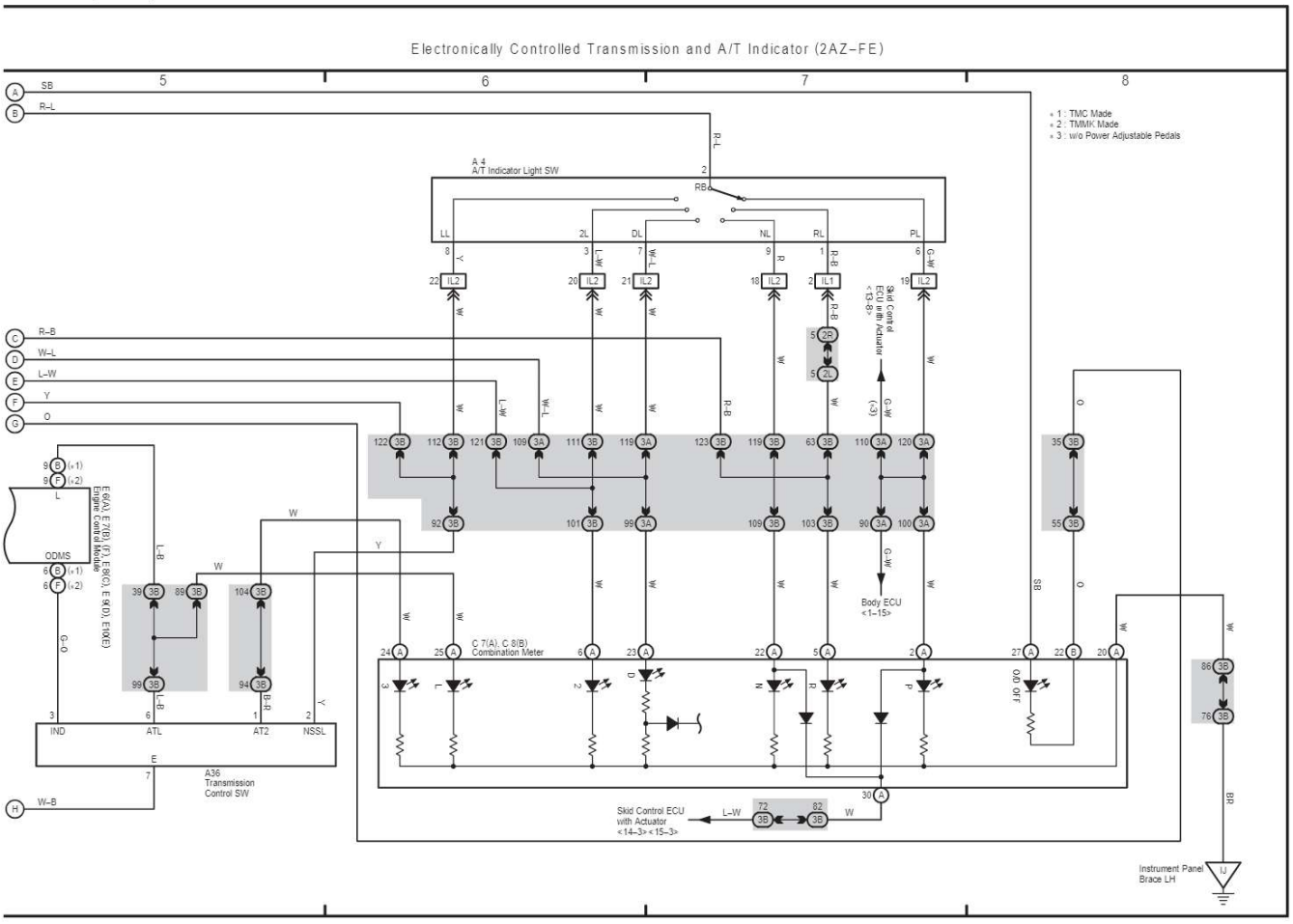



Electronically Controlled Transmission and A/T Indicator (1MZ–FE, 3MZ–FE)
5
6
7
8
A4
A/T Indicator Light SW
LL
2L
DL
NL
RL
PL
RB
* 3 : w/o Power Adjustable Pedals
Radio and Player with Display <27–3>
Skid Cont of ECU with Actuator <3–6>
Skid Cont of ECU with Actuator (–3)
Body ECU <1–15>
E 6(A), E 7(B), E 8(C), E 9(D), E10(E) Engine Control Module
ODMS
C 7(A), C 8(B) Combination Meter
O/D OFF
A36 Transmission Control SW
IND
ATL
AT2
NSSL
Skid Control ECU with Actuator <14–3> <15–3>
Instrument Panel Brace LH

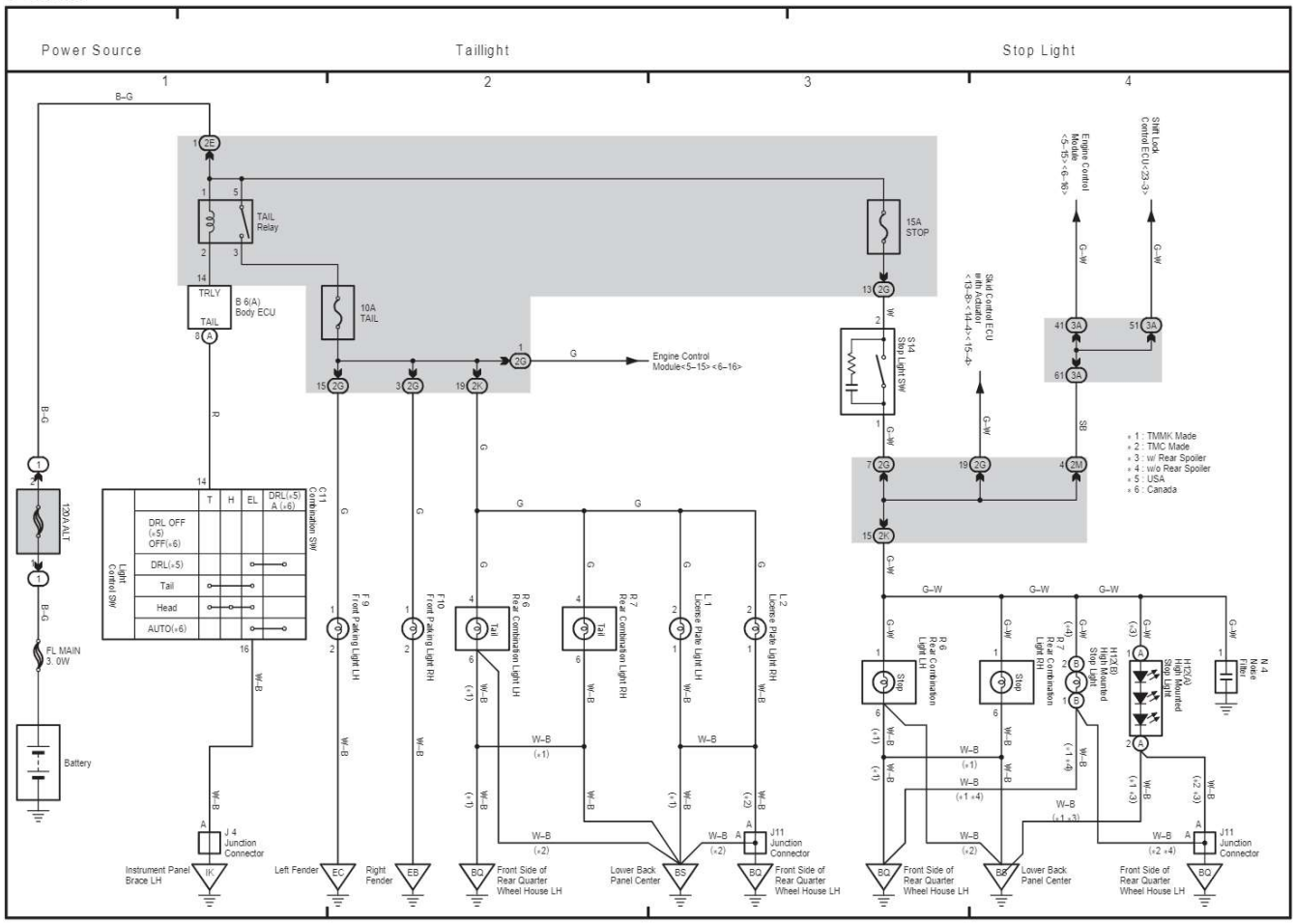
8 CAMRY

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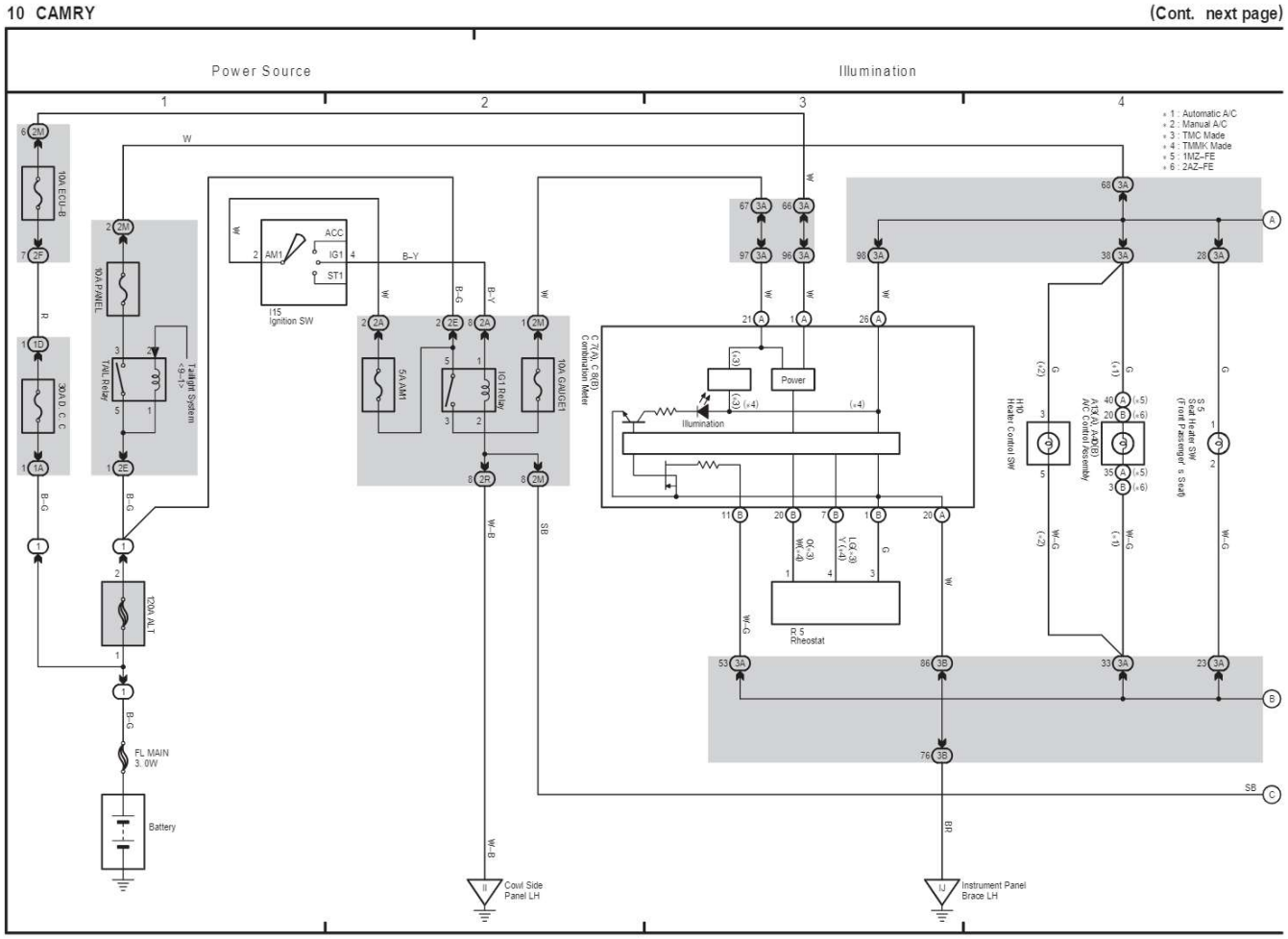


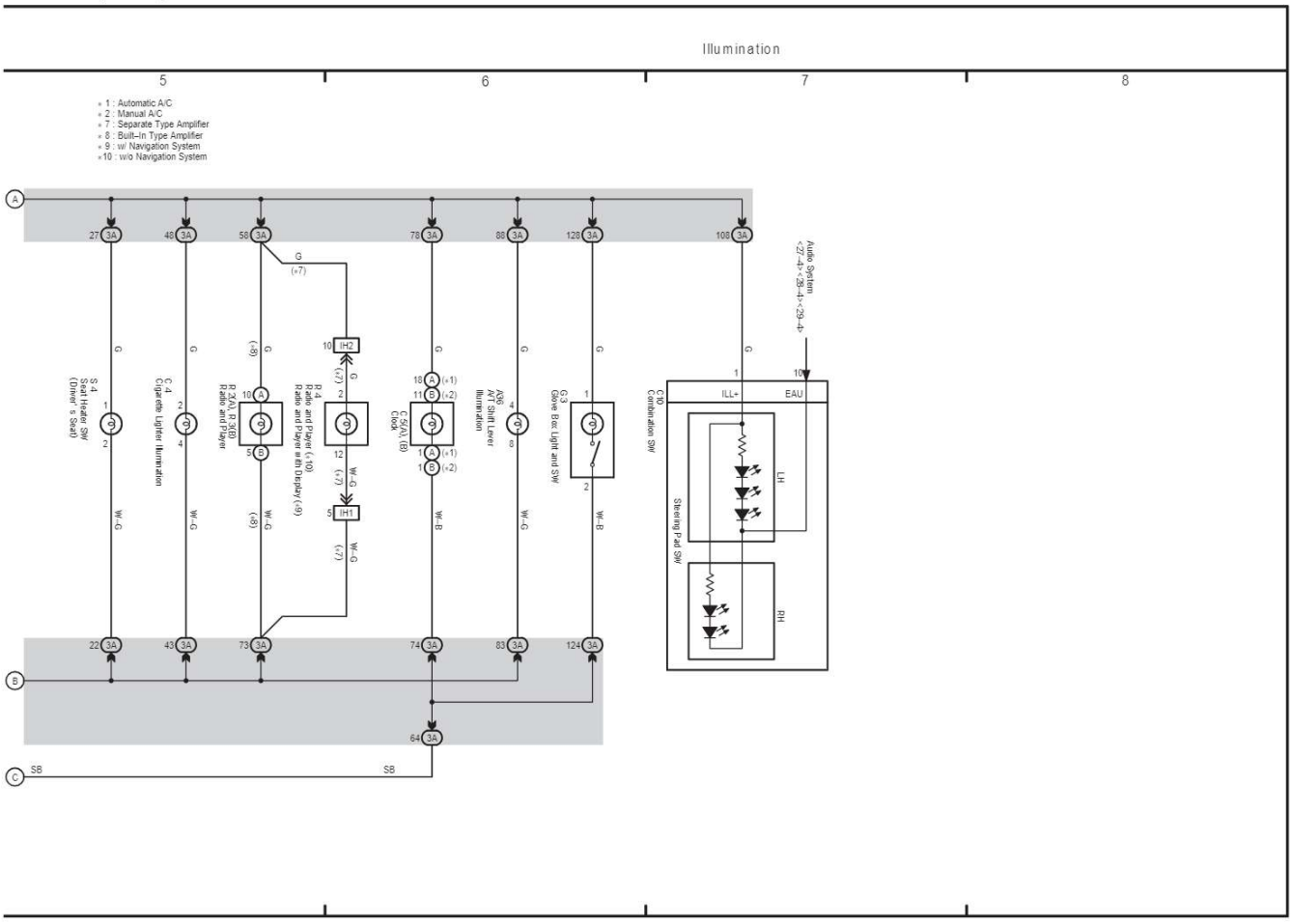

Electronically Controlled Transmission and A/T Indicator (2AZ–FE)
5
6
7
8
* 1 : TMC Made
* 2 : TMMK Made
* 3 : w/o Power Adjustable Pedals
A 4
A/T Indicator Light SW
LL
2L
DL
NL
RL
PL
IL2
IL1
Skid Control ECU with Actuator <13-8>
Body ECU <1–15>
C 7(A), C 8(B)
Combination Meter
OD OFF
E6(A), E7(B), F), E8(C), E 9(D), E10(E)
Engine Control Module
ODMS
IND
ATL
AT2
NSSL
A36
Transmission
Control SW
Skid Control ECU with Actuator <14–3> <15–3>
Instrument Panel Brace LH

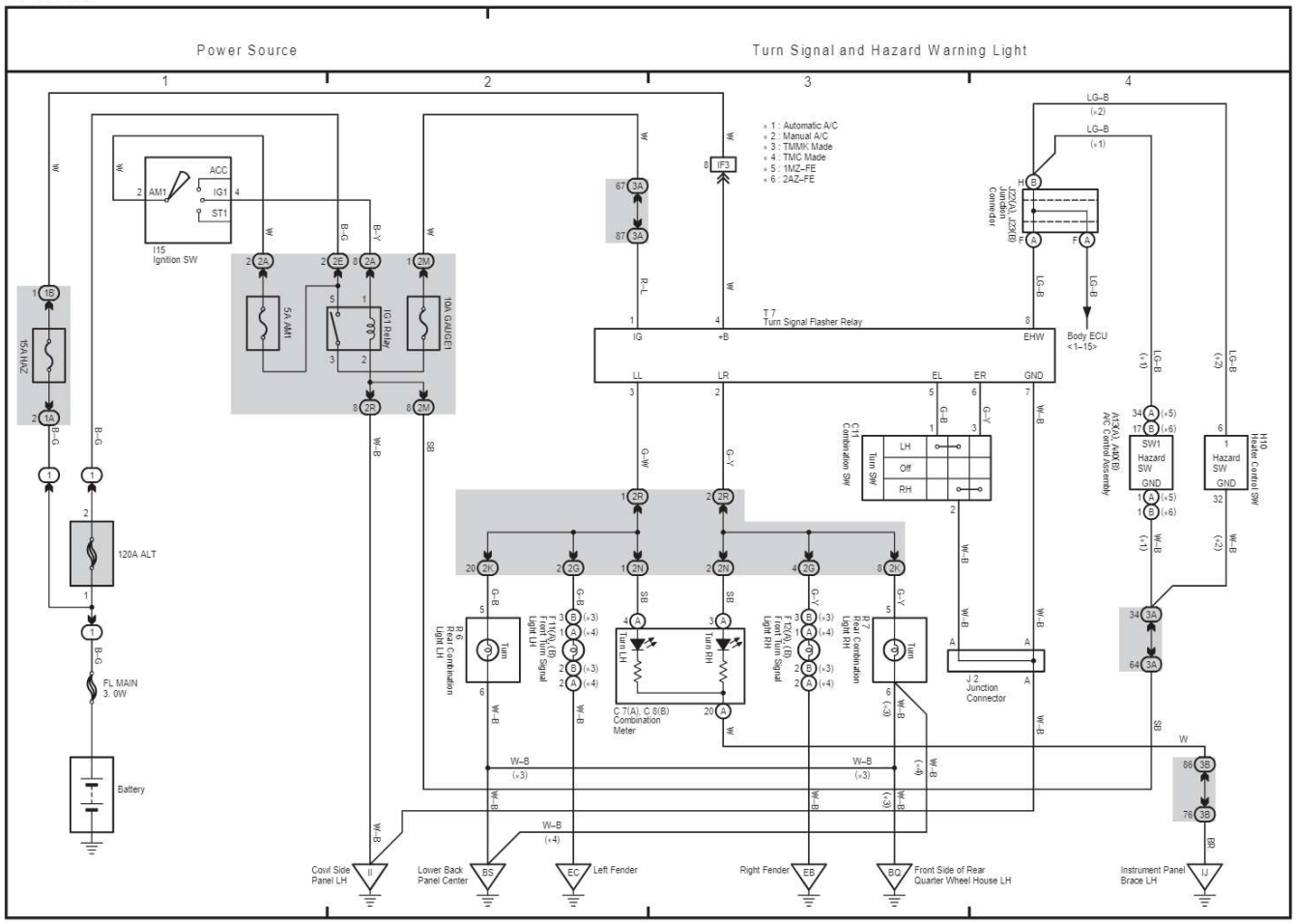
9 CAMRY

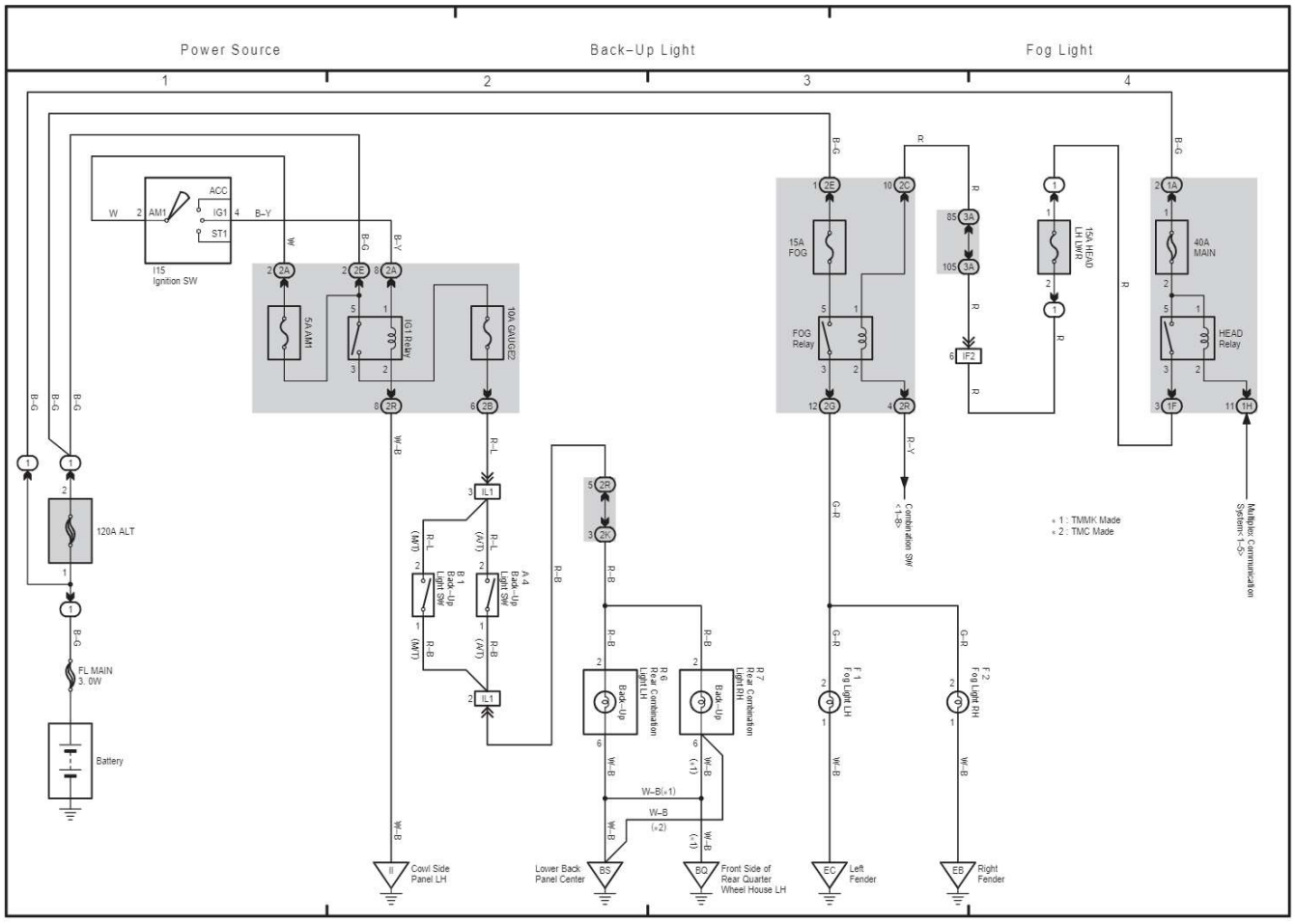

Power Source
Taillight
Stop Light
1
2
3
4
B–G
TAIL Relay
TRLY
TAIL
B 6(A) Body ECU
10A TAIL
15A STOP
S14 Stop Light SW
Engine Control Module<5–15> <6–16>
Engine Control Module <5–15> <6–8>
Shift Lock Control ECU <2-3>
Skid Control ECU with Actuator <13–8> <14–4> <15–4>
G–W
SB
R
G
W–B
C11 Combination SW
Light Control SW
DRL OFF (×5) OFF(×6)
DRL(×5)
Tail
Head
AUTO(×6)
T
H
EL
DRL(×5) A (×6)
120A ALT
FL MAIN 3.0W
Battery
F9 Front Parking Light LH
F10 Front Parking Light RH
R6 Rear Combination Light LH
R7 Rear Combination Light RH
L1 License Plate Light LH
L2 License Plate Light RH
R6 Rear Combination Light LH
R7 Rear Combination Light RH
H12(B) High Mounted Stop Light
N 4 Noise Filter
J 4 Junction Connector
J11 Junction Connector
Instrument Panel Brace LH
Left Fender
Right Fender
Front Side of Rear Quarter Wheel House LH
Lower Back Panel Center
Front Side of Rear Quarter Wheel House LH
Lower Back Panel Center
Front Side of Rear Quarter Wheel House LH
× 1 : TMMK Made
× 2 : TMC Made
× 3 : w/ Rear Spoiler
× 4 : w/o Rear Spoiler
× 5 : USA
× 6 : Canada

(Cont. next page)



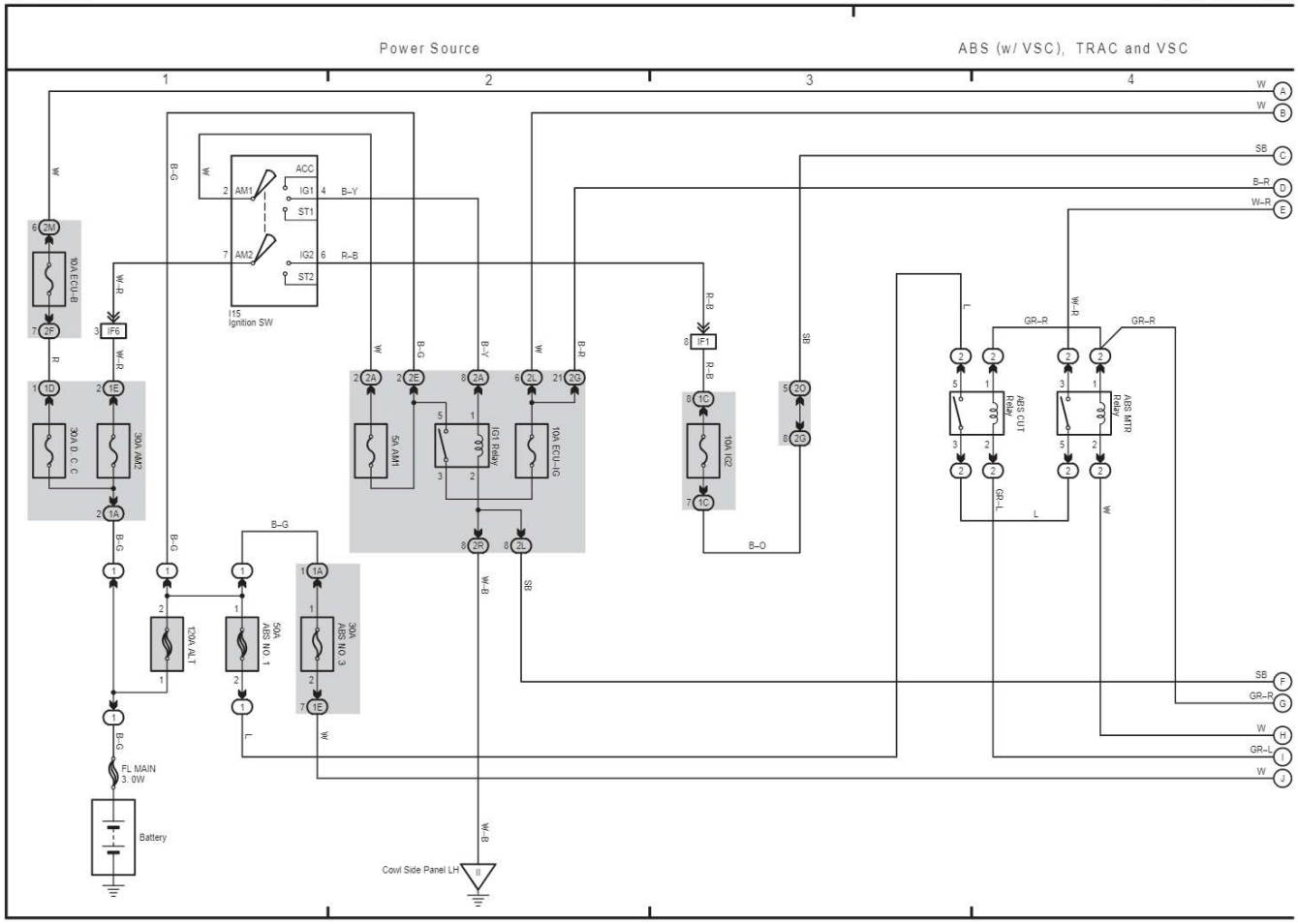

Illumination
5
6
7
8
* 1 : Automatic A/C
* 2 : Manual A/C
* 7 : Separate Type Amplifier
* 8 : Built–in Type Amplifier
* 9 : w/ Navigation System
*10 : w/o Navigation System
A
B
C
27 3A
48 3A
56 3A
78 3A
88 3A
128 3A
108 3A
22 3A
43 3A
73 3A
74 3A
83 3A
124 3A
64 3A
G
(*7)
(*8)
IH2
IH1
(*7)
(*8)
(*9)
(*10)
S 4
Seat Heater SW
(Driver's Seat)
C 4
Cigarette Lighter Illumination
R 2(A), R 3(B)
Radio and Player
R 4
Radio and Player (*10)
Radio and Player with Display (*9)
C 5(A), I(B)
Clock
A36
A/T Shift Lever
Illumination
G 7
Glove Box Light and SW
C10
Combination SW
Audio System
<27–4>,<28–4>,<29–4>
ILL+
EAU
LH
RH
Steering Pad SW
W–G
W–B
SB


Power Source
Turn Signal and Hazard Warning Light
1
2
3
4
* 1 : Automatic A/C
* 2 : Manual A/C
* 3 : TMMK Made
* 4 : TMC Made
* 5 : 1MZ-FE
* 6 : 2AZ-FE
I15 Ignition SW
ACC
IG1
ST1
AM1
5A AM1
IG1 Relay
10A GAUGE1
15A HAZ
120A ALT
FL MAIN 3. 0W
Battery
T7 Turn Signal Flasher Relay
IG
+B
EHW
LL
LR
EL
ER
GND
C11 Combination SW
LH
Off
RH
Turn SW
J2 Junction Connector
J22(A), J22(B) Junction Connector
Body ECU <1-15>
SW1 Hazard SW
Hazard SW
H10 Heater Control SW
A13(A), A40(B) A/C Control Assembly
R16 Rear Combination Light LH
R17 Rear Combination Light RH
F17(A), (B) Front Turn Signal Light LH
F13(A), (B) Front Turn Signal Light RH
Turn
Turn LH
Turn RH
C 7(A), C 8(B) Combination Meter
Cowl Side Panel LH
Lower Back Panel Center
Left Fender
Right Fender
Front Side of Rear Quarter Wheel House LH
Instrument Panel Brace LH

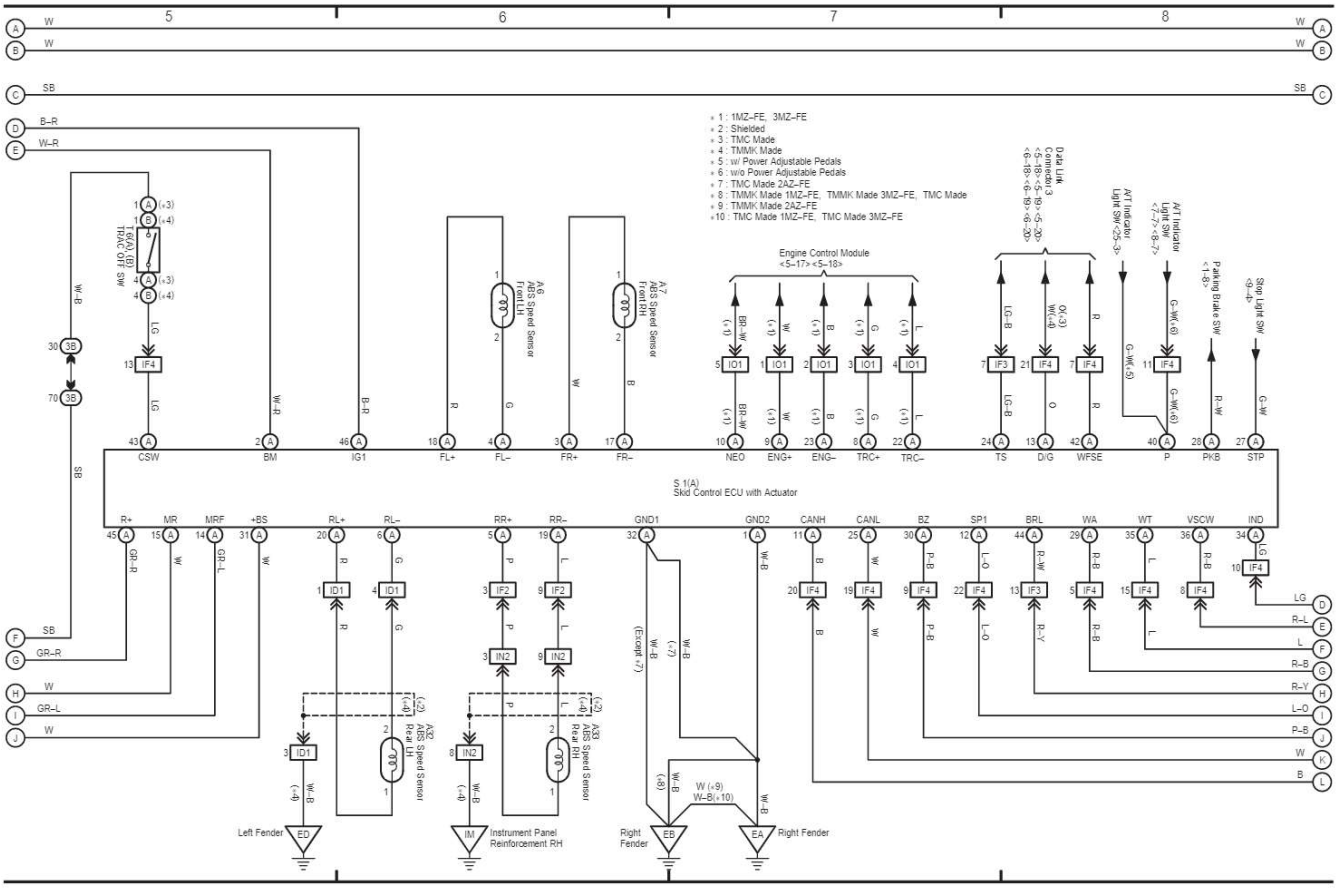

Power Source
Back–Up Light
Fog Light
1
2
3
4
ACC
IG1
ST1
AM1
W
B–Y
I15
Ignition SW
5A AM1
IG1 Relay
10A GAUGE2
120A ALT
FL MAIN
3. 0W
Battery
B–G
W–B
R–L
R–B
B–Y
R–Y
G–R
R
15A
FOG
FOG
Relay
IF2
15A HEAD
LH LWR
40A
MAIN
HEAD
Relay
B 1
Back–Up
Light SW
(M/T)
A 4
Back–Up
Light SW
(A/T)
R 6
Rear Combination
Light LH
R 7
Rear Combination
Light RH
Back–Up
F 1
Fog Light LH
F 2
Fog Light RH
W–B(×1)
W–B
(×2)
(–1)
Combination SW
<1–8>
Multiplex Communication
System <1–5>
× 1 : TMMK Made
× 2 : TMC Made
Cowl Side
Panel LH
Lower Back
Panel Center
Front Side of
Rear Quarter
Wheel House LH
Left
Fender
Right
Fender

13 CAMRY

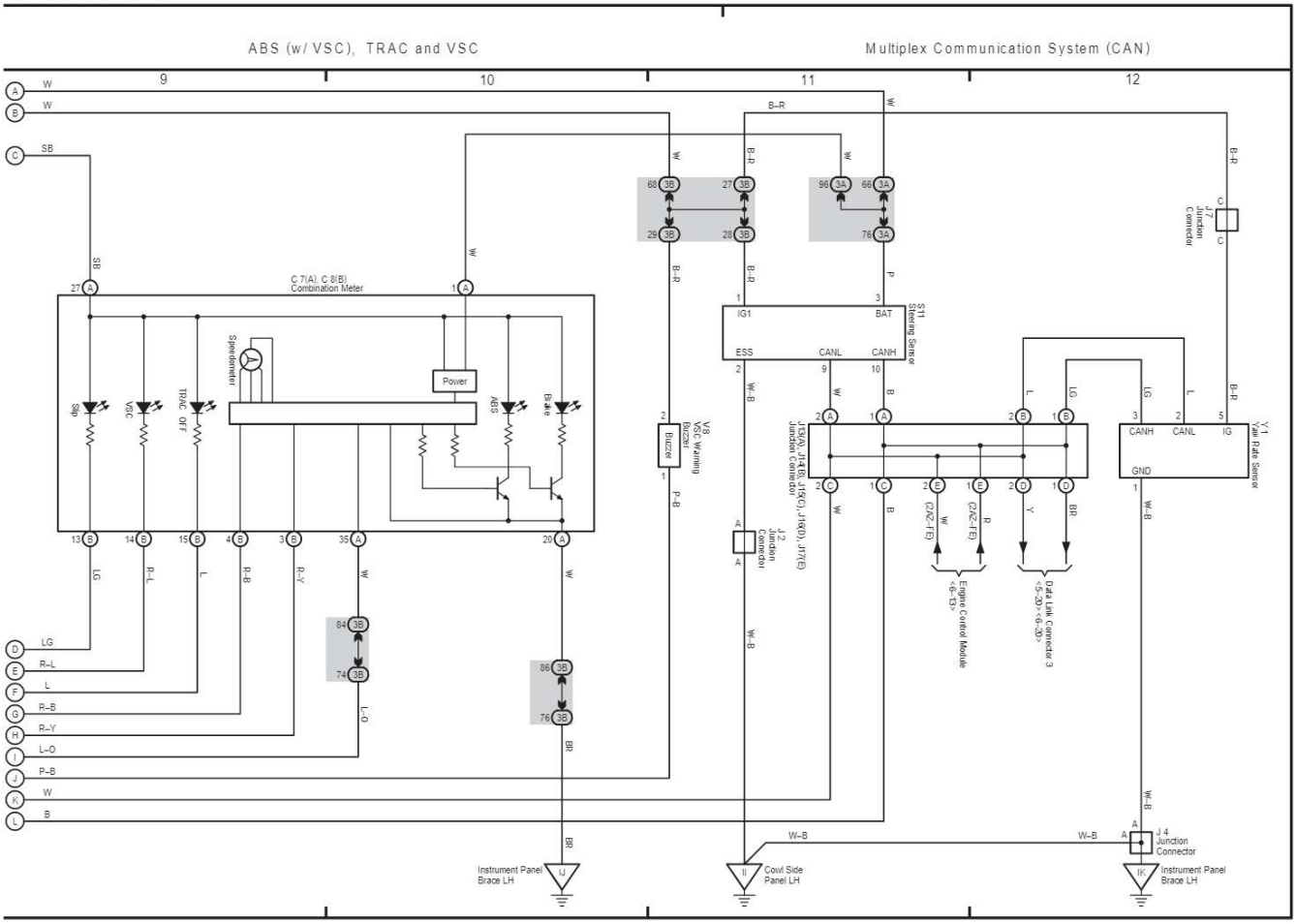
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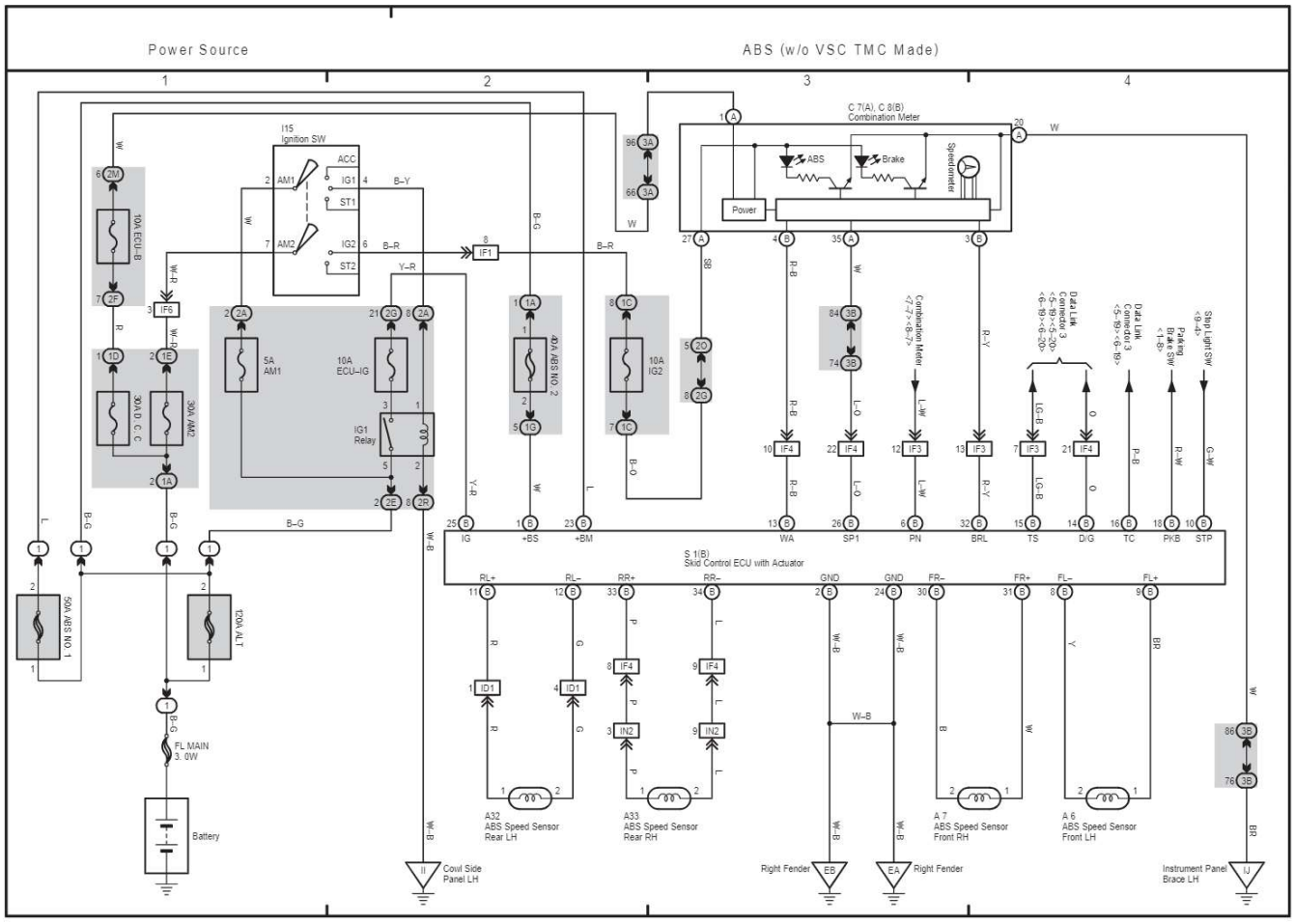


ABS (w/ VSC), TRAC and VSC

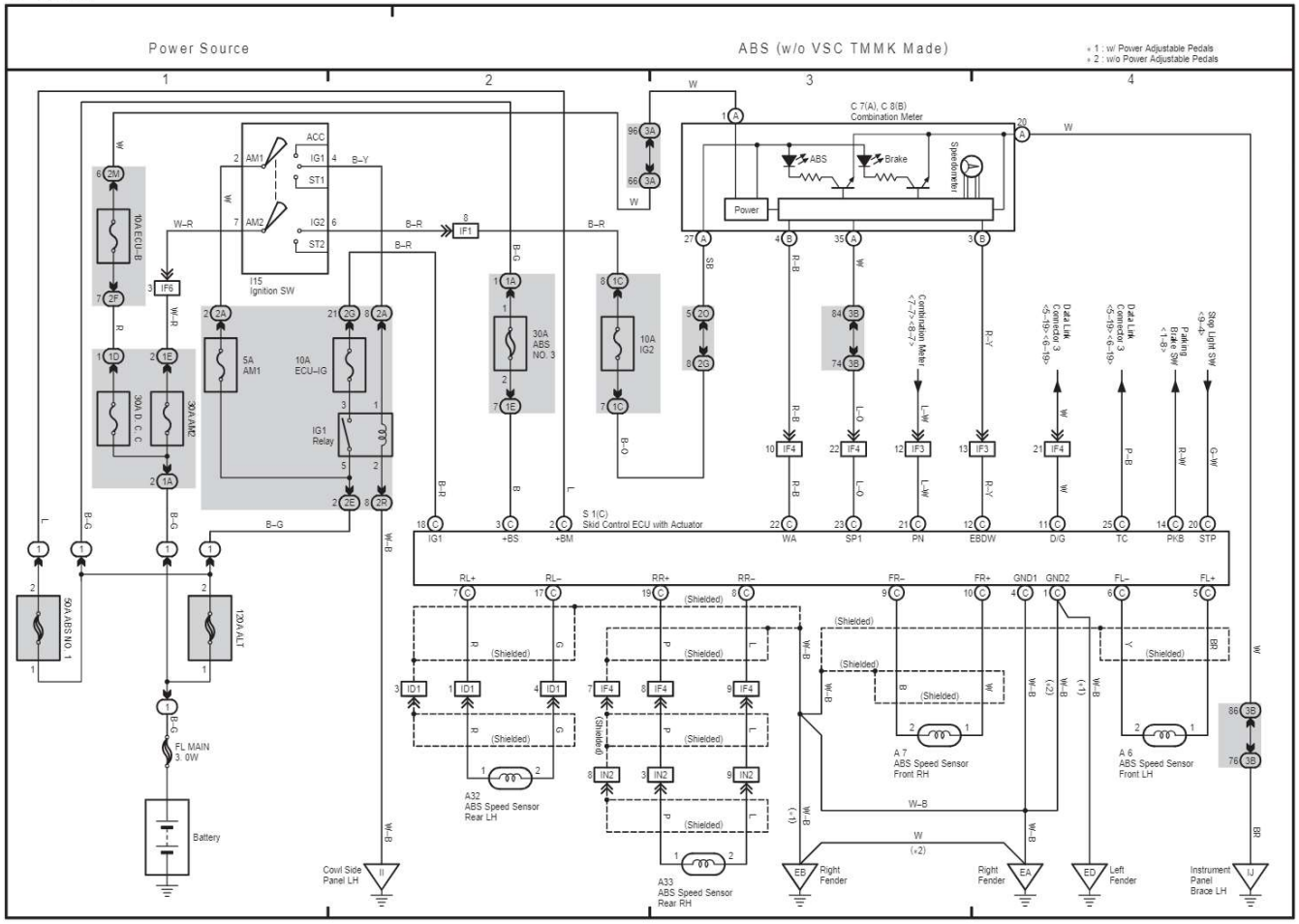


13 CAMRY (Cont' d)



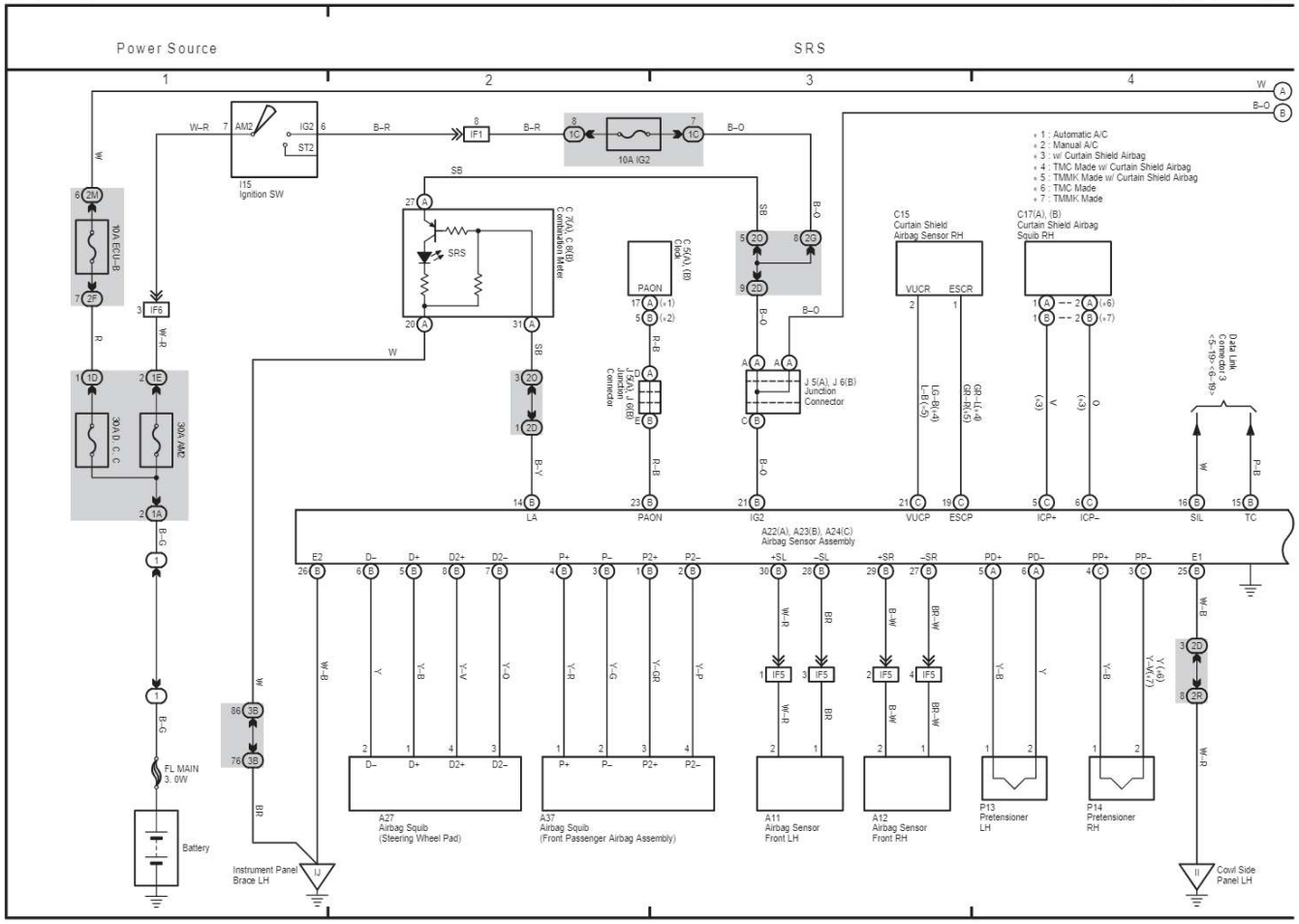

Power Source
ABS (w/o VSC TMC Made)
1
2
3
4
I15
Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
10A ECU–B
5A AM1
10A ECU–IG
30A A. C. C.
30A AM2
40A ABS NO. 2
10A IG2
IG1 Relay
IF1
50A ABS NO. 1
120A ALT
FL MAIN
3. 0W
Battery
C 7(A), C 8(B)
Combination Meter
ABS
Brake
Speedometer
Power
IG
+BS
+BM
WA
SP1
PN
BRL
TS
D/G
TC
PKB
STP
S 1(B)
Skid Control ECU with Actuator
RL+
RL–
RR+
RR–
GND
GND
FR–
FR+
FL–
FL+
A32
ABS Speed Sensor
Rear LH
A33
ABS Speed Sensor
Rear RH
A 7
ABS Speed Sensor
Front RH
A 6
ABS Speed Sensor
Front LH
Cowl Side
Panel LH
Right Fender
Right Fender
Instrument Panel
Brace LH
Data Link
Connector 3
Parking
Brake SW
Stop Light SW

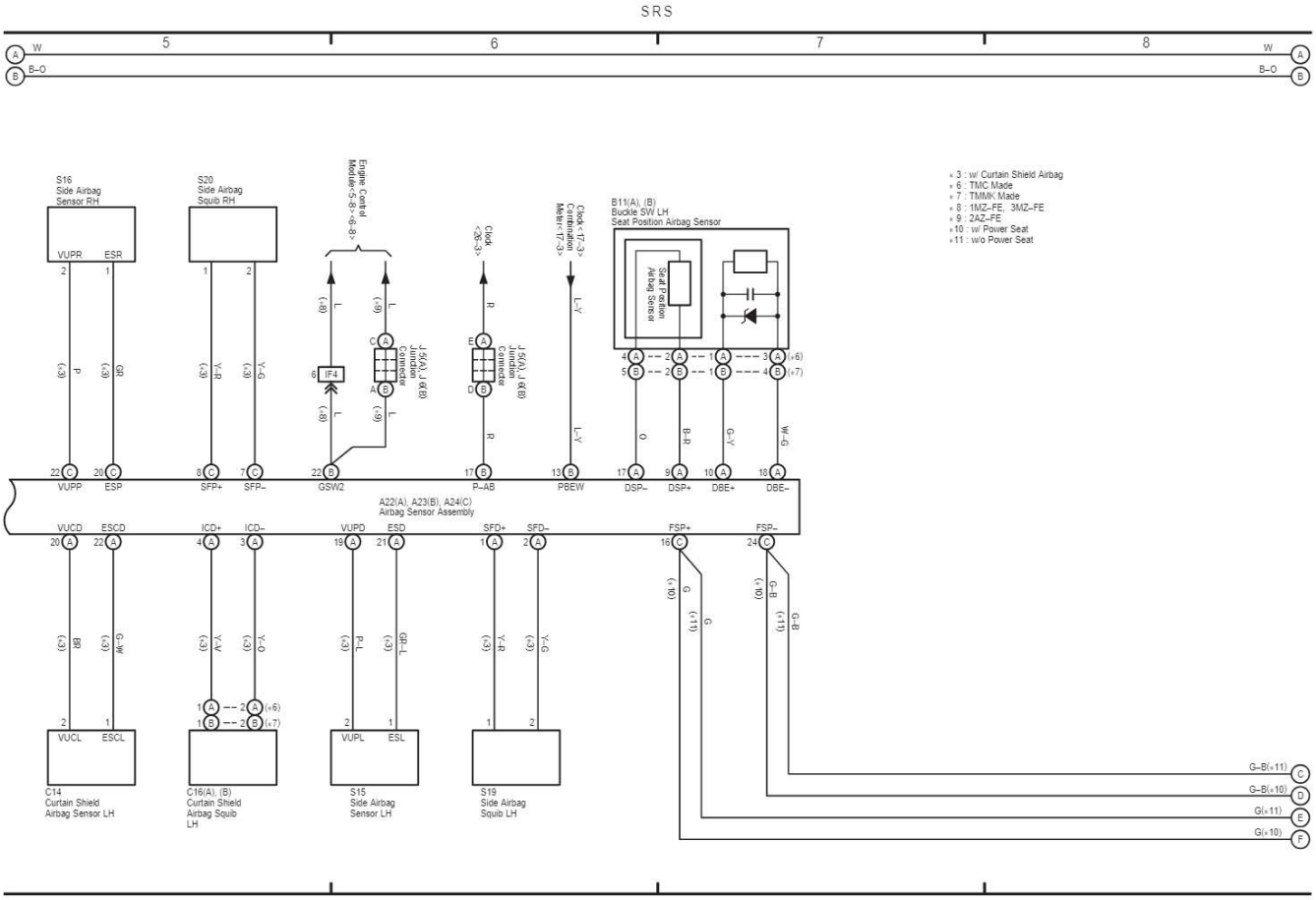
15 CAMRY


Power Source
ABS (w/o VSC TMMK Made)
* 1 : w/ Power Adjustable Pedals
* 2 : w/o Power Adjustable Pedals
C 7(A), C 8(B)
Combination Meter
ABS
Brake
Speedometer
Power
ACC
IG1
ST1
IG2
ST2
AM1
AM2
I15
Ignition SW
10A ECU–B
5A AM1
10A ECU–IG
30A D C C
30A AM2
IG1 Relay
30A ABS NO. 1
120A ALT
FL MAIN
3. 0W
Battery
30A ABS NO. 3
10A IG2
S 1(C)
Skid Control ECU with Actuator
IG1
+BS
+BM
WA
SP1
PN
EBDW
D/G
TC
PKB
STP
RL+
RL–
RR+
RR–
FR–
FR+
GND1
GND2
FL–
FL+
A32
ABS Speed Sensor
Rear LH
A33
ABS Speed Sensor
Rear RH
A 7
ABS Speed Sensor
Front RH
A 6
ABS Speed Sensor
Front LH
Combination Meter
<7-7><8-7>
Data Link
Connector 3
<5-19><6-19>
Parking
Brake SW
<1-8>
Stop Light SW
<9-4>
Cowl Side
Panel LH
Right
Fender
Right
Fender
Left
Fender
Instrument
Panel
Brace LH
(Shielded)
(+1)
(+2)
(–1)
(–2)

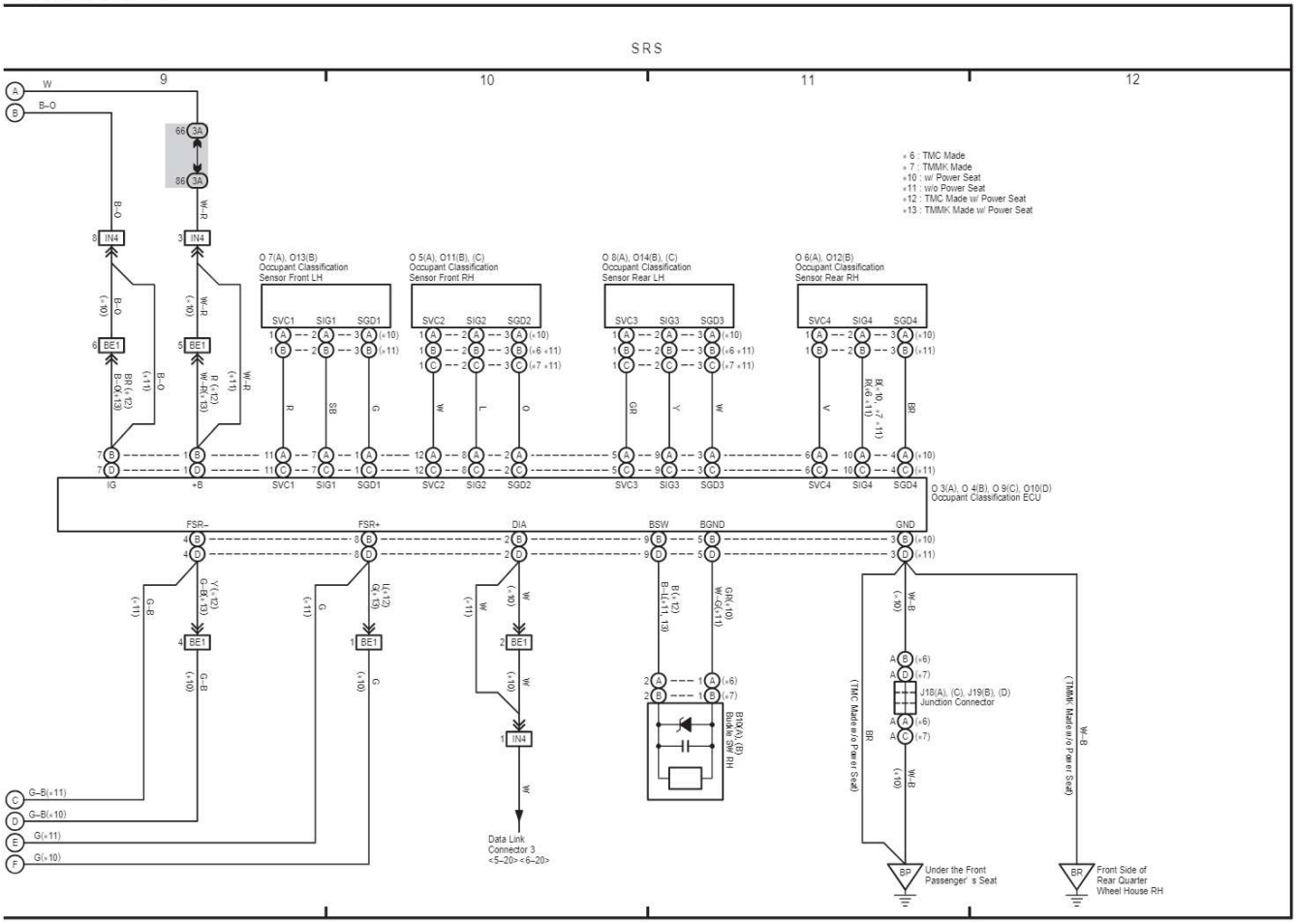
16 CAMRY

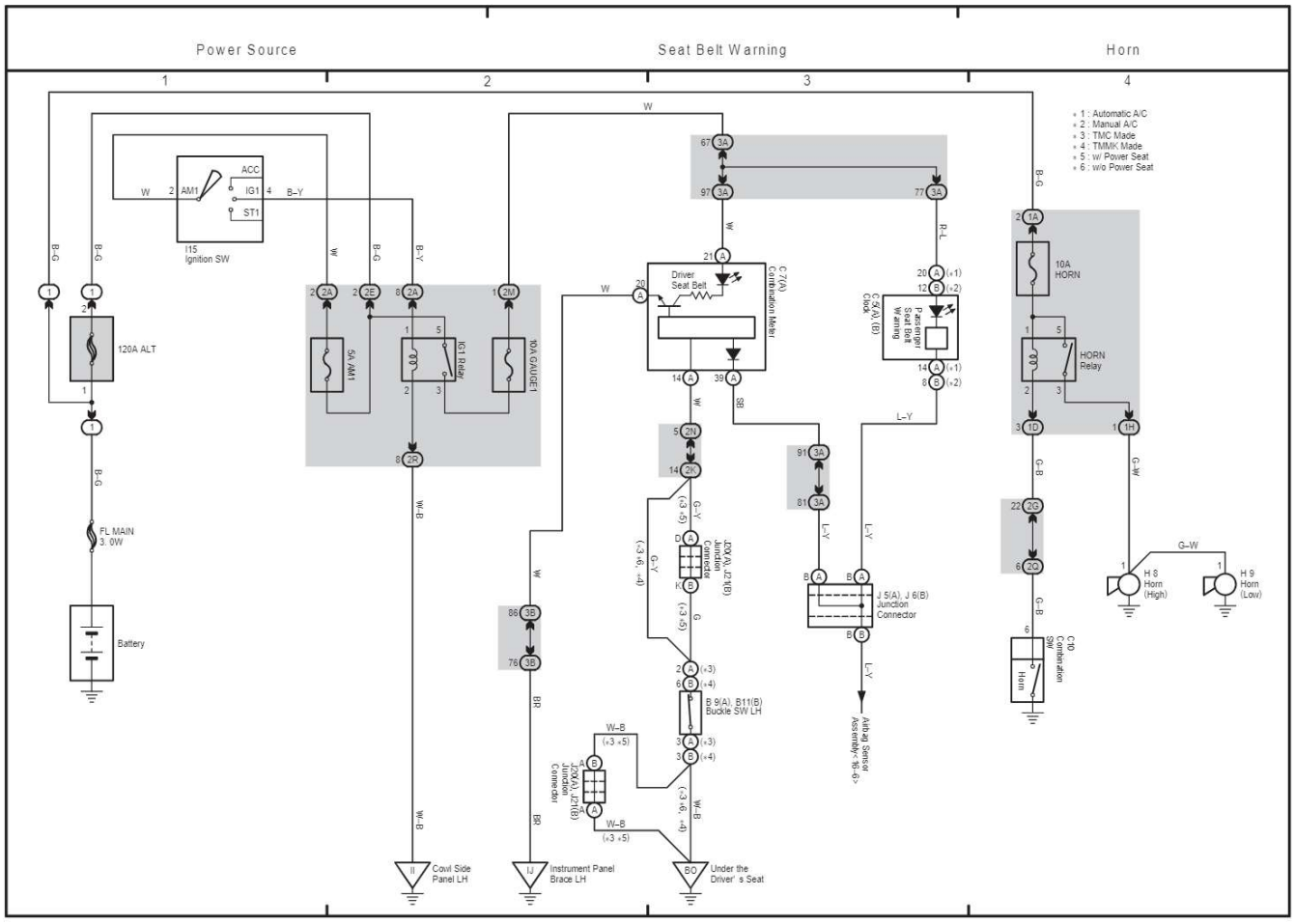
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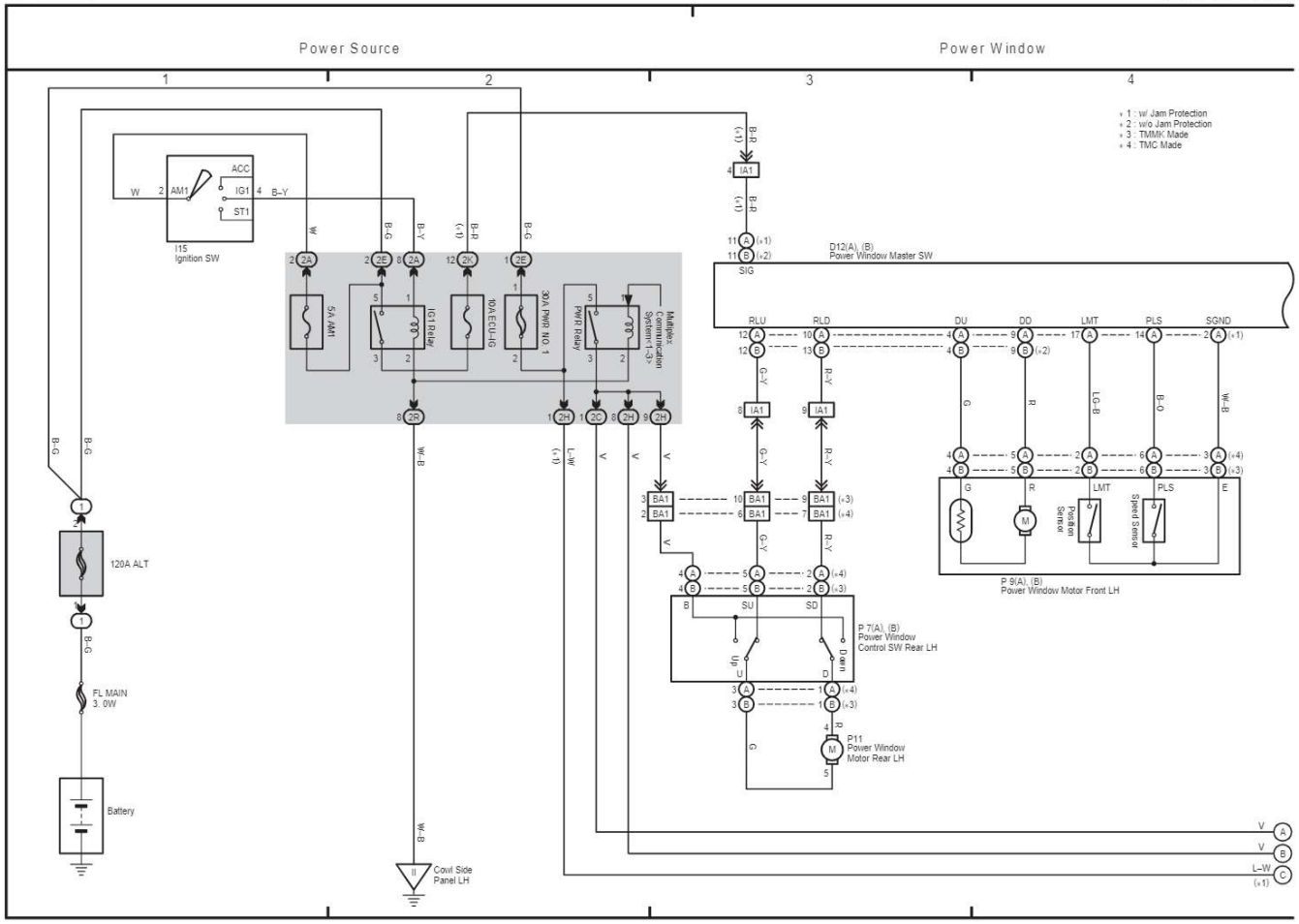

SRS
5
6
7
8
W
B–O
S16
Side Airbag
Sensor RH
VUPR
ESR
S20
Side Airbag
Squib RH
Engine Control
Module<S-8>,<8>
Clock
<3A-3>
Clock<1F-3>
Combination
Meter<1F-3>
B11(A), (B)
Buckle SW LH
Seat Position Airbag Sensor
Seat Position
Airbag Sensor
J5(A), J6(B)
Junction
Connector
IF4
A22(A), A23(B), A24(C)
Airbag Sensor Assembly
VUPP
ESP
SFP+
SFP–
GSW2
P–AB
PBEW
DSP–
DSP+
DBE+
DBE–
VUCD
ESCD
ICD+
ICD–
VUPD
ESD
SFD+
SFD–
FSP+
FSP–
VUCL
ESCL
VUPL
ESL
C14
Curtain Shield
Airbag Sensor LH
C16(A), (B)
Curtain Shield
Airbag Squib
LH
S15
Side Airbag
Sensor LH
S19
Side Airbag
Squib LH
*3 : w/ Curtain Shield Airbag
*6 : TMC Made
*7 : TMMK Made
*8 : 1MZ–FE, 3MZ–FE
*9 : 2AZ–FE
*10 : w/ Power Seat
*11 : w/o Power Seat
G–B(*11)
G–B(*10)
G(*11)
G(*10)

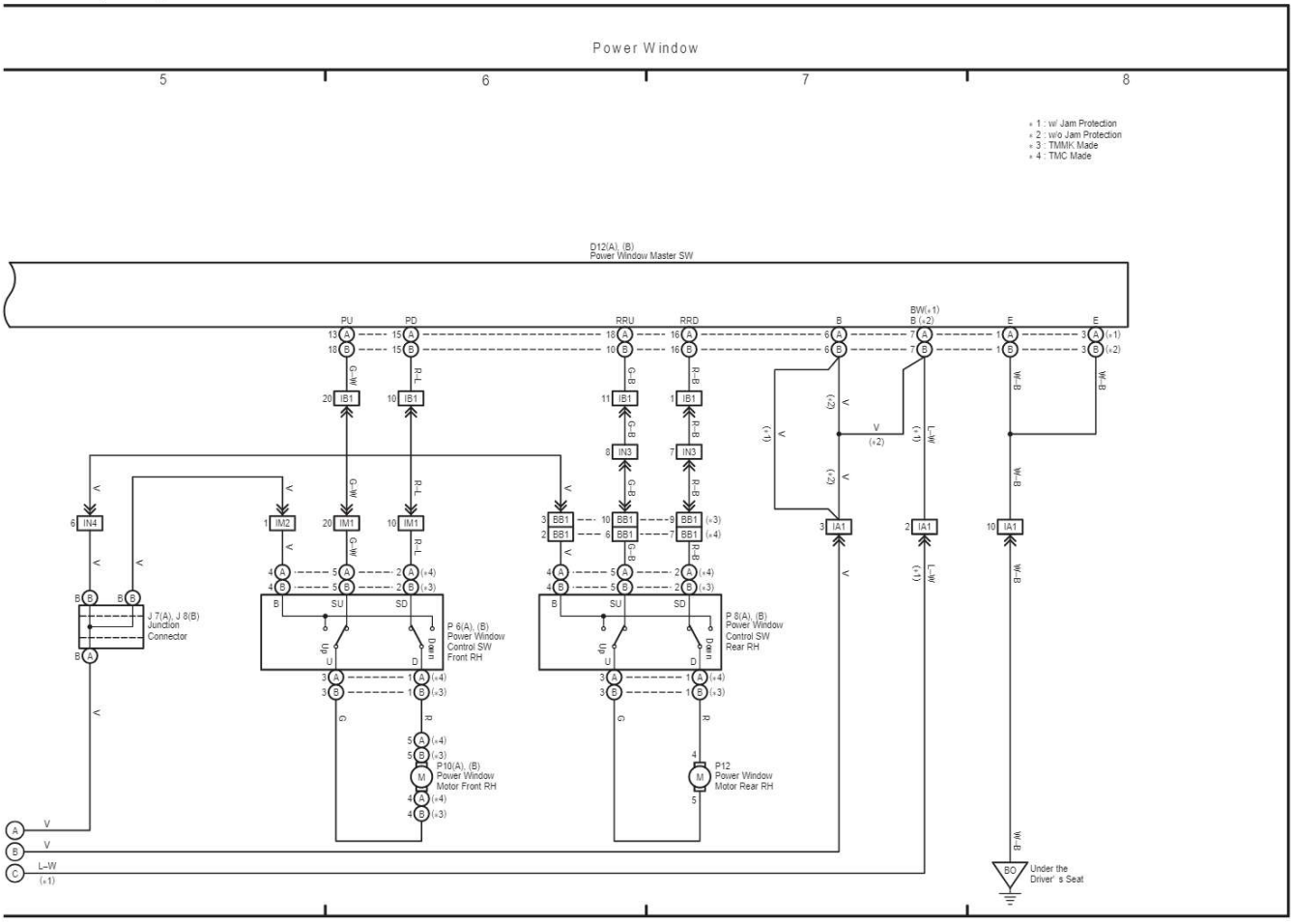
16 CAMRY (Cont' d)



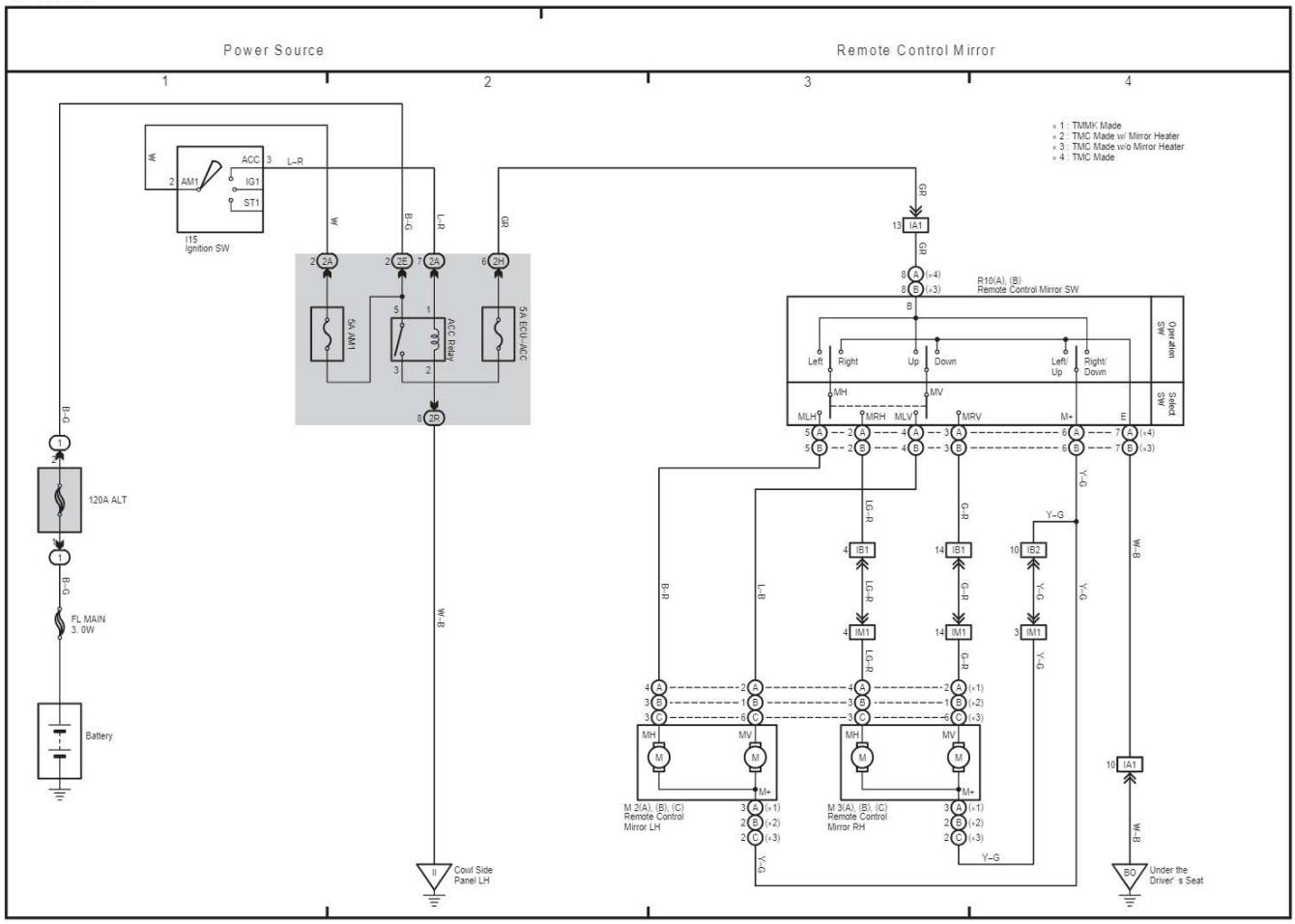

Power Source
Seat Belt Warning
Horn
1
2
3
4
• 1 : Automatic A/C
• 2 : Manual A/C
• 3 : TMC Made
• 4 : TMMK Made
• 5 : w/ Power Seat
• 6 : w/o Power Seat
I15
Ignition SW
ACC
IG1
ST1
AM1
120A ALT
FL MAIN
3. 0W
Battery
5A AM1
IG1 Relay
80A GAUGE1
Driver
Seat Belt
C72(A)
Combination Meter
C75(A), (B)
Clock
Passenger
Seat Belt
Warning
10A
HORN
HORN
Relay
H 8
Horn
(High)
H 9
Horn
(Low)
C10
Combination
SW
Horn
J 5(A), J 6(B)
Junction
Connector
J20(A), J21(B)
Junction
Connector
J20(A), J21(B)
Junction
Connector
B 9(A), B11(B)
Buckle SW LH
Airbag Sensor
Assembly
Cowl Side
Panel LH
Instrument Panel
Brace LH
Under the
Driver's Seat

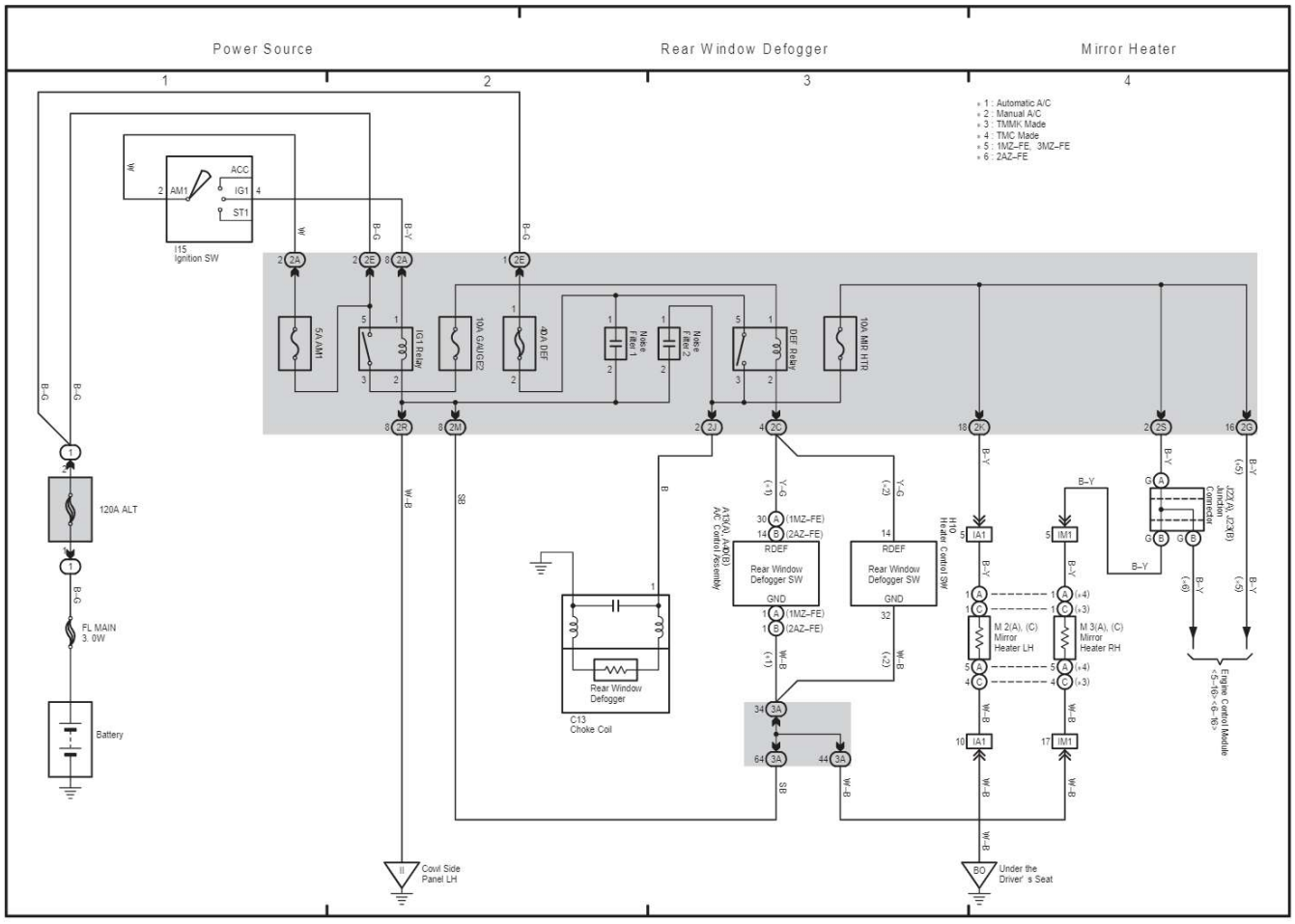
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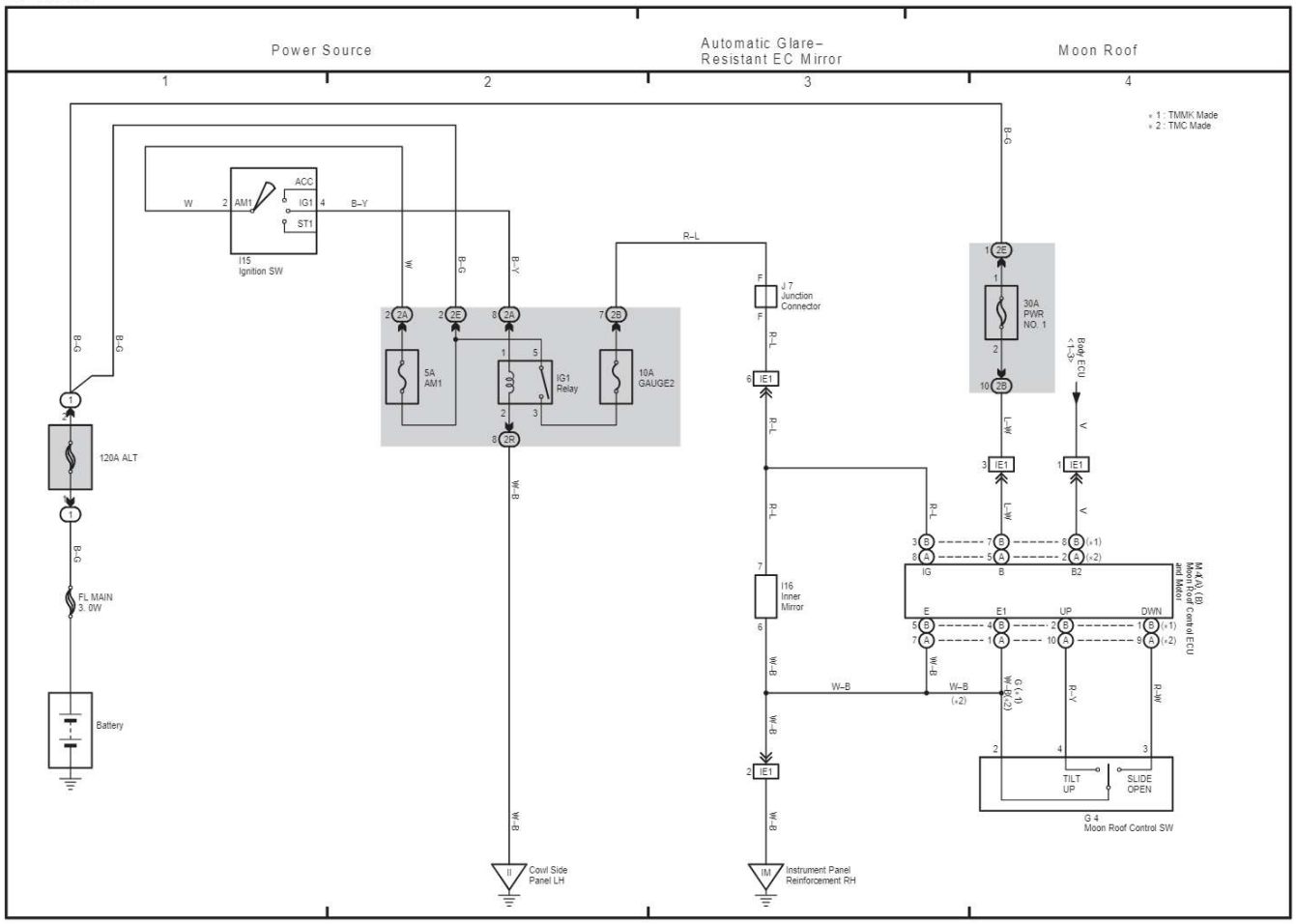

Power Window
5
6
7
8
* 1 : w/ Jam Protection
* 2 : w/o Jam Protection
* 3 : TMMK Made
* 4 : TMC Made
D12(A), (B)
Power Window Master SW
PU
PD
RRU
RRD
B
BW(*1)
B (*2)
E
E
IB1
IN3
IN4
IM2
IM1
BB1
IA1
J 7(A), J 8(B)
Junction
Connector
P 6(A), (B)
Power Window
Control SW
Front RH
P 8(A), (B)
Power Window
Control SW
Rear RH
P10(A), (B)
Power Window
Motor Front RH
P12
Power Window
Motor Rear RH
BO
Under the
Driver' s Seat
SU
SD
Up
Down

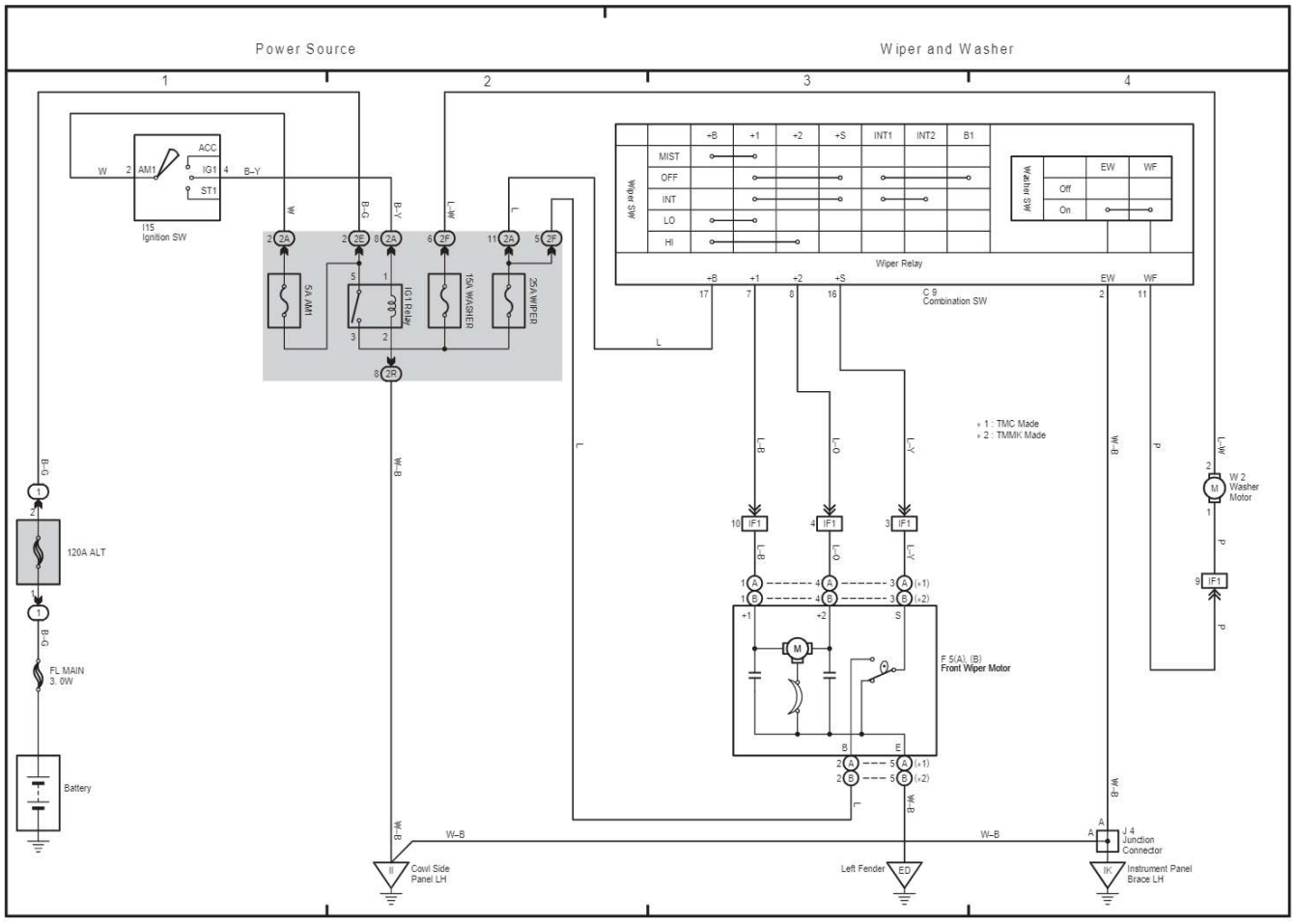
19 CAMRY


Power Source
Remote Control Mirror
1
2
3
4
* 1 : TMMK Made
* 2 : TMC Made w/ Mirror Heater
* 3 : TMC Made w/o Mirror Heater
* 4 : TMC Made
I15
Ignition SW
ACC
IG1
ST1
AM1
5A AM1
ACC Relay
5A ECU-ACC
120A ALT
FL MAIN
3. 0W
Battery
Cowl Side
Panel LH
R10(A), (B)
Remote Control Mirror SW
Operation SW
Select SW
Left
Right
Up
Down
Left/
Up
Right/
Down
MH
MV
MLH
MRH
MLV
MRV
M+
E
M 2(A), (B), (C)
Remote Control
Mirror LH
M 3(A), (B), (C)
Remote Control
Mirror RH
Under the
Driver' s Seat

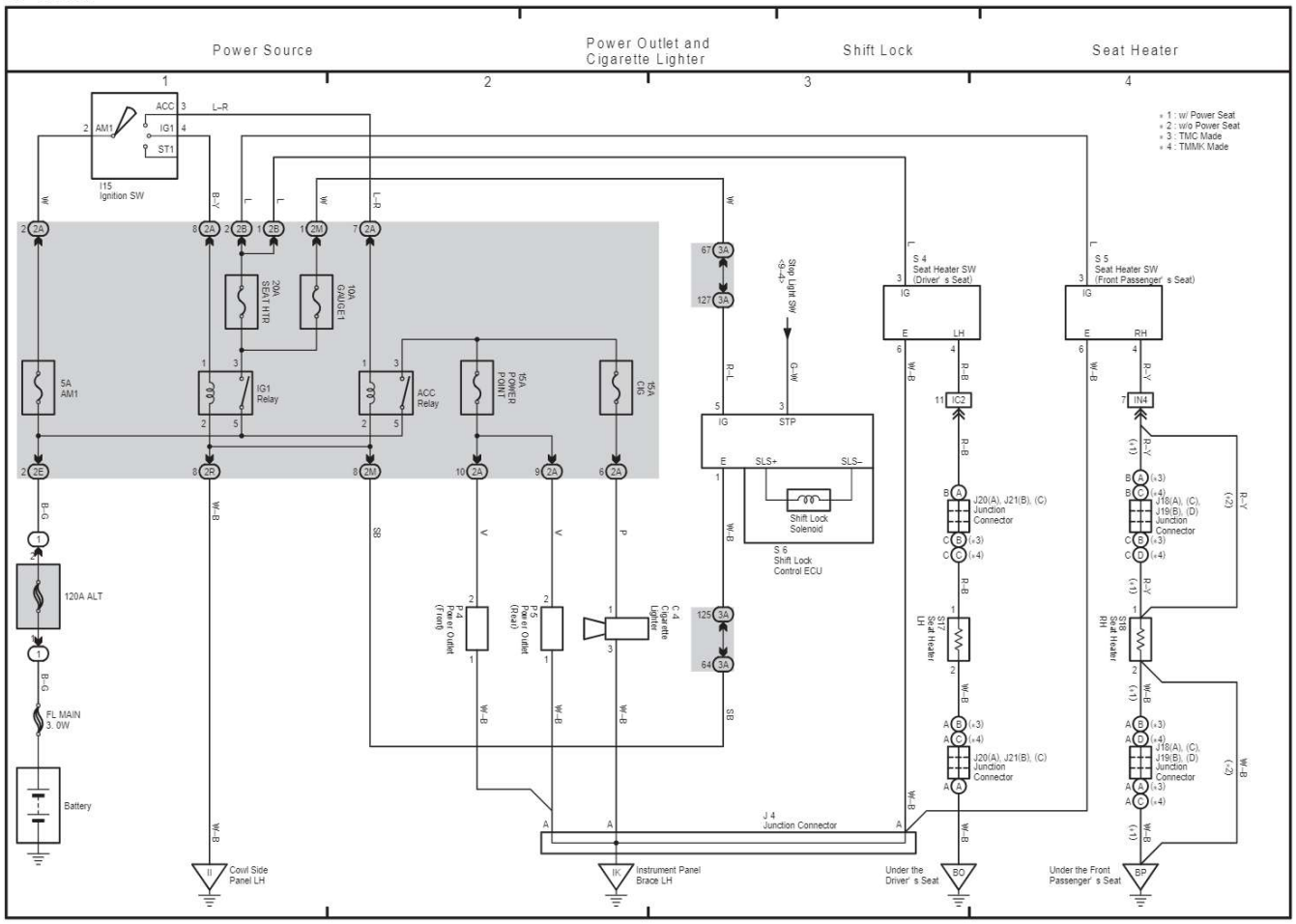

Power Source
Rear Window Defogger
Mirror Heater
1
2
3
4
• 1 : Automatic A/C
• 2 : Manual A/C
• 3 : TMMK Made
• 4 : TMC Made
• 5 : 1MZ–FE , 3MZ–FE
• 6 : 2AZ–FE
I15 Ignition SW
ACC
IG1
ST1
AM1
5A AM1
IG1 Relay
10A GAUGE2
40A DEF
Noise Filter 1
Noise Filter 2
DEF Relay
10A MIR HTR
120A ALT
FL MAIN 3. 0W
Battery
C13 Choke Coil
Rear Window Defogger
A13(A), A14(B) A/C Control Assembly
RDEF
Rear Window Defogger SW
GND
H10 Heater Control SW
M 2(A), (C) Mirror Heater LH
M 3(A), (C) Mirror Heater RH
J23(A), J23(B) Junction Connector
Engine Control Module <5–16>, <6–16>
Cowl Side Panel LH
Under the Driver' s Seat

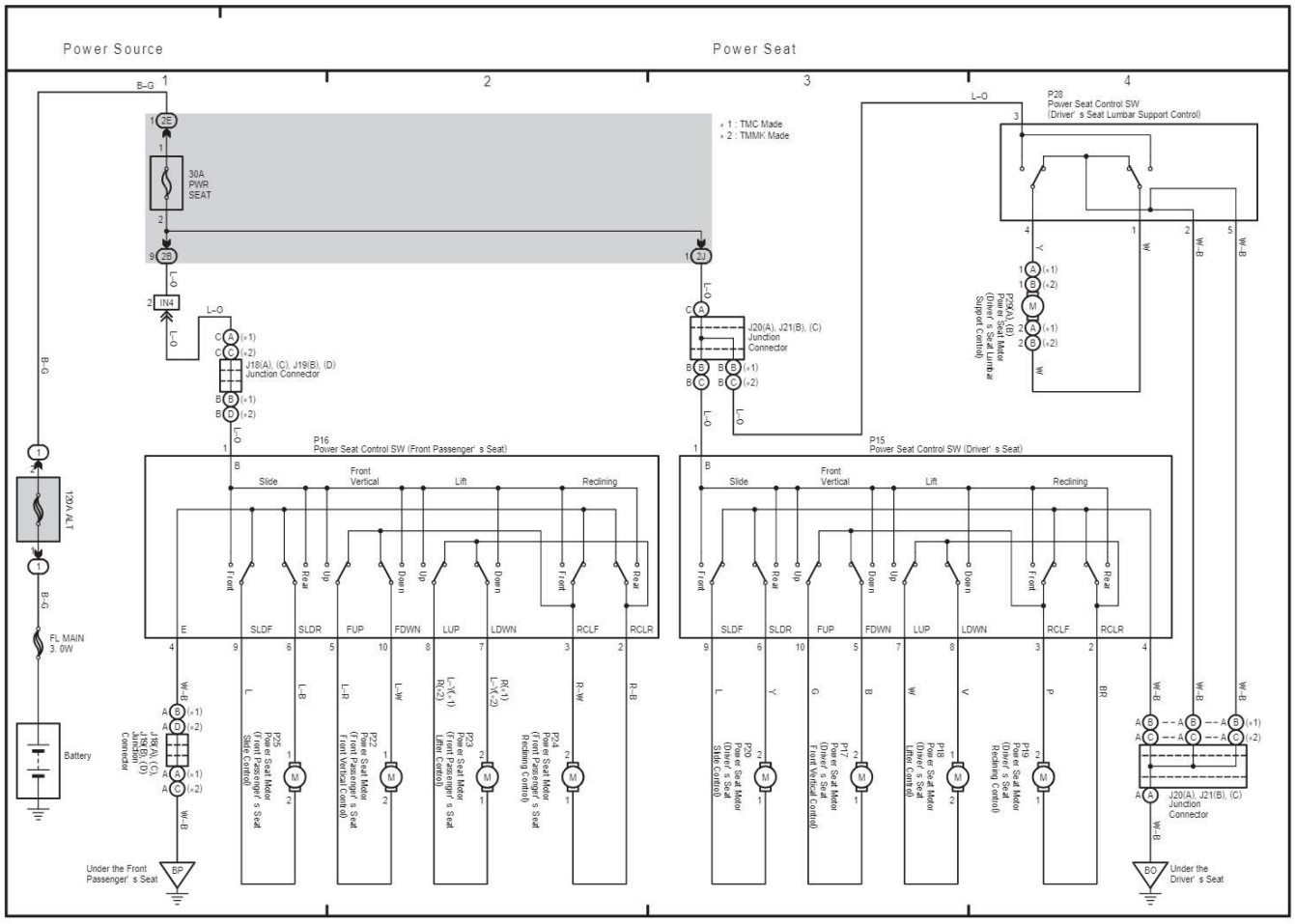
21 CAMRY


Power Source
Automatic Glare–Resistant EC Mirror
Moon Roof
1
2
3
4
* 1 : TMMK Made
* 2 : TMC Made
I15
Ignition SW
ACC
IG1
ST1
AM1
W
B–Y
B–G
R–L
J 7
Junction Connector
5A
AM1
IG1
Relay
10A
GAUGE2
30A
PWR
NO. 1
Body ECU
<1-3>
120A ALT
FL MAIN
3. 0W
Battery
I16
Inner
Mirror
W–B
L–W
V
R–Y
R–W
G (*1)
W–B (*2)
(*1)
(*2)
M 4 (A), (B)
Mirror Control ECU
and Motor
IG
B
B2
E
E1
UP
DWN
TILT
UP
SLIDE
OPEN
G 4
Moon Roof Control SW
Cowl Side
Panel LH
Instrument Panel
Reinforcement RH

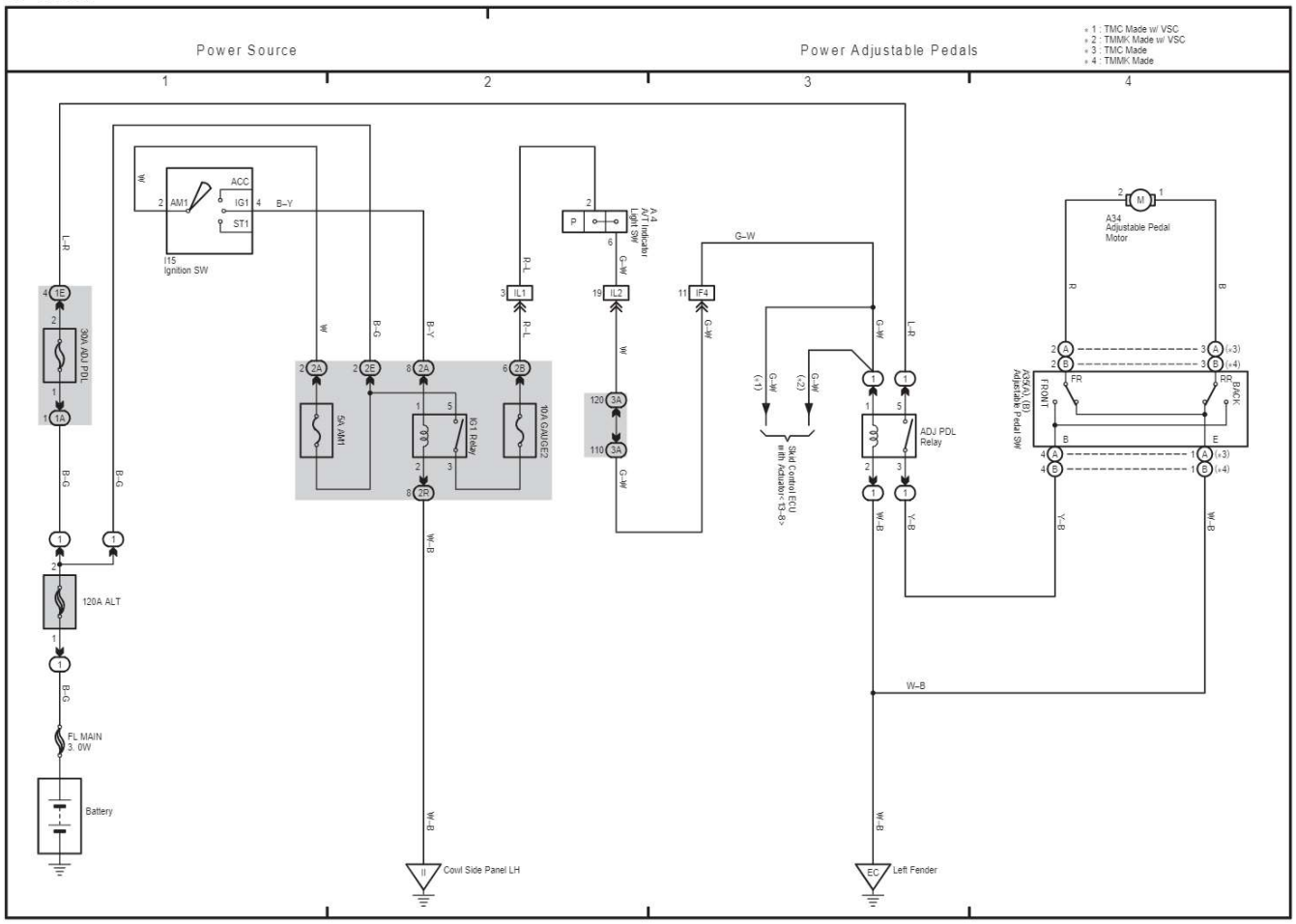

Power Source
Wiper and Wasaher
1
2
3
4
ACC
AM1
IG1
ST1
I15
Ignition SW
5A AM1
IG1 Relay
15A WASHER
25A WIPER
Wiper SW
MIST
OFF
INT
LO
HI
+B
+1
+2
+S
INT1
INT2
B1
Wash SW
Off
On
EW
WF
Wiper Relay
C 9
Combination SW
* 1 : TMC Made
* 2 : TMMK Made
120A ALT
FL MAIN
3. 0W
Battery
W 2
Washer
Motor
F 5(A), (B)
Front Wiper Motor
J 4
Junction
Connector
Cowl Side
Panel LH
Left Fender
Instrument Panel
Brace LH
W–B

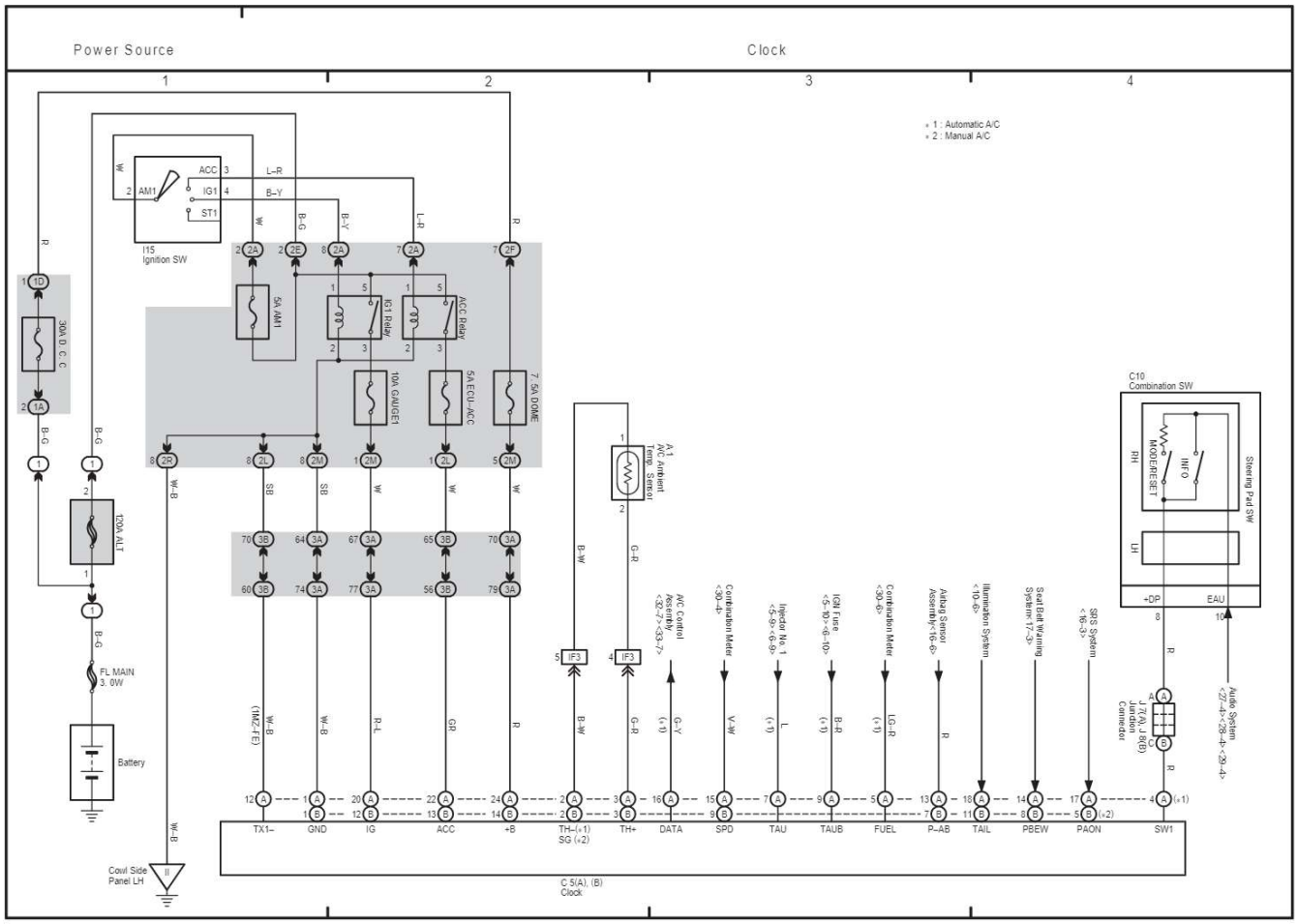
23 CAMRY


Power Source
Power Outlet and Cigarette Lighter
Shift Lock
Seat Heater
1
2
3
4
* 1 : w/ Power Seat
* 2 : w/o Power Seat
* 3 : TMC Made
* 4 : TMMK Made
I15 Ignition SW
ACC
IG1
ST1
AM1
L–R
20A SEAT HTR
10A GAUGE1
5A AM1
IG1 Relay
ACC Relay
15A POWER POINT
15A CIG
120A ALT
FL MAIN 3.0W
Battery
Cowl Side Panel LH
P-4 Power Outlet (Front)
P-5 Power Outlet (Rear)
C-4 Cigarette Lighter
Instrument Panel Brace LH
J 4 Junction Connector
Stop Light SW
S 6 Shift Lock Control ECU
Shift Lock Solenoid
S 4 Seat Heater SW (Driver's Seat)
S 5 Seat Heater SW (Front Passenger's Seat)
J20(A), J21(B), (C) Junction Connector
J18(A), (C), J19(B), (D) Junction Connector
S17 Seat Heater LH
S18 Seat Heater RH
Under the Driver's Seat
Under the Front Passenger's Seat

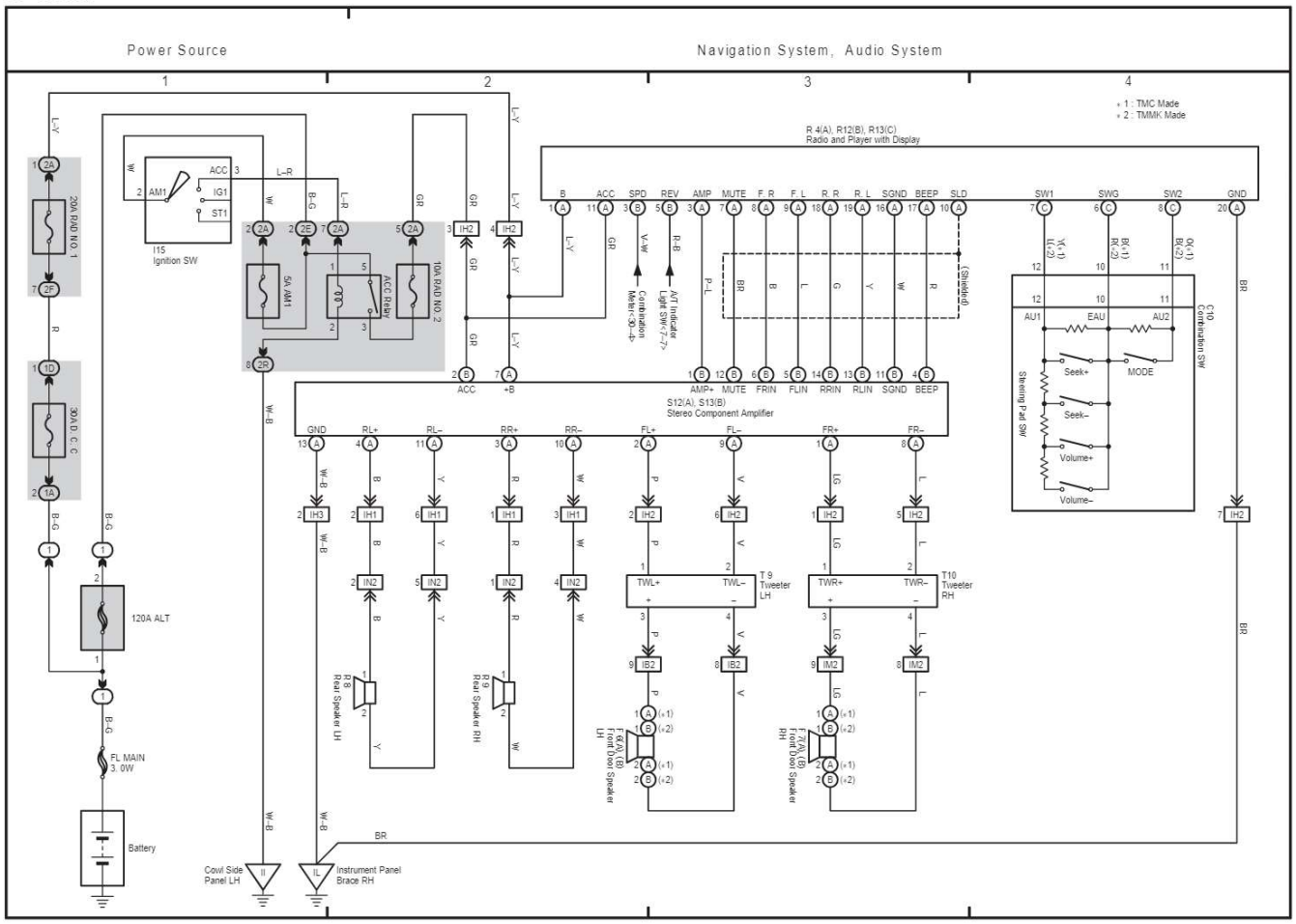

Power Source
Power Seat
B–G
1
2
3
4
2E
30A
PWR
SEAT
2B
2J
IN4
L–O
* 1 : TMC Made
* 2 : TMMK Made
J18(A), (C), J19(B), (D)
Junction Connector
J20(A), J21(B), (C)
Junction Connector
P28
Power Seat Control SW
(Driver' s Seat Lumbar Support Control)
P16
Power Seat Control SW (Front Passenger' s Seat)
P15
Power Seat Control SW (Driver' s Seat)
Slide
Front
Vertical
Lift
Reclining
Front
Rear
Up
Down
E
SLDF
SLDR
FUP
FDWN
LUP
LDWN
RCLF
RCLR
P25
Power Seat Motor
(Front Passenger' 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)
P20
Power Seat Motor
(Driver' s Seat
Slide Control)
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)
P27
Power Seat Motor
(Driver' s Seat Lumbar
Support Control)
120A ALT
FL MAIN
3. 0W
Battery
BP
Under the Front
Passenger' s Seat
BO
Under the
Driver' s Seat

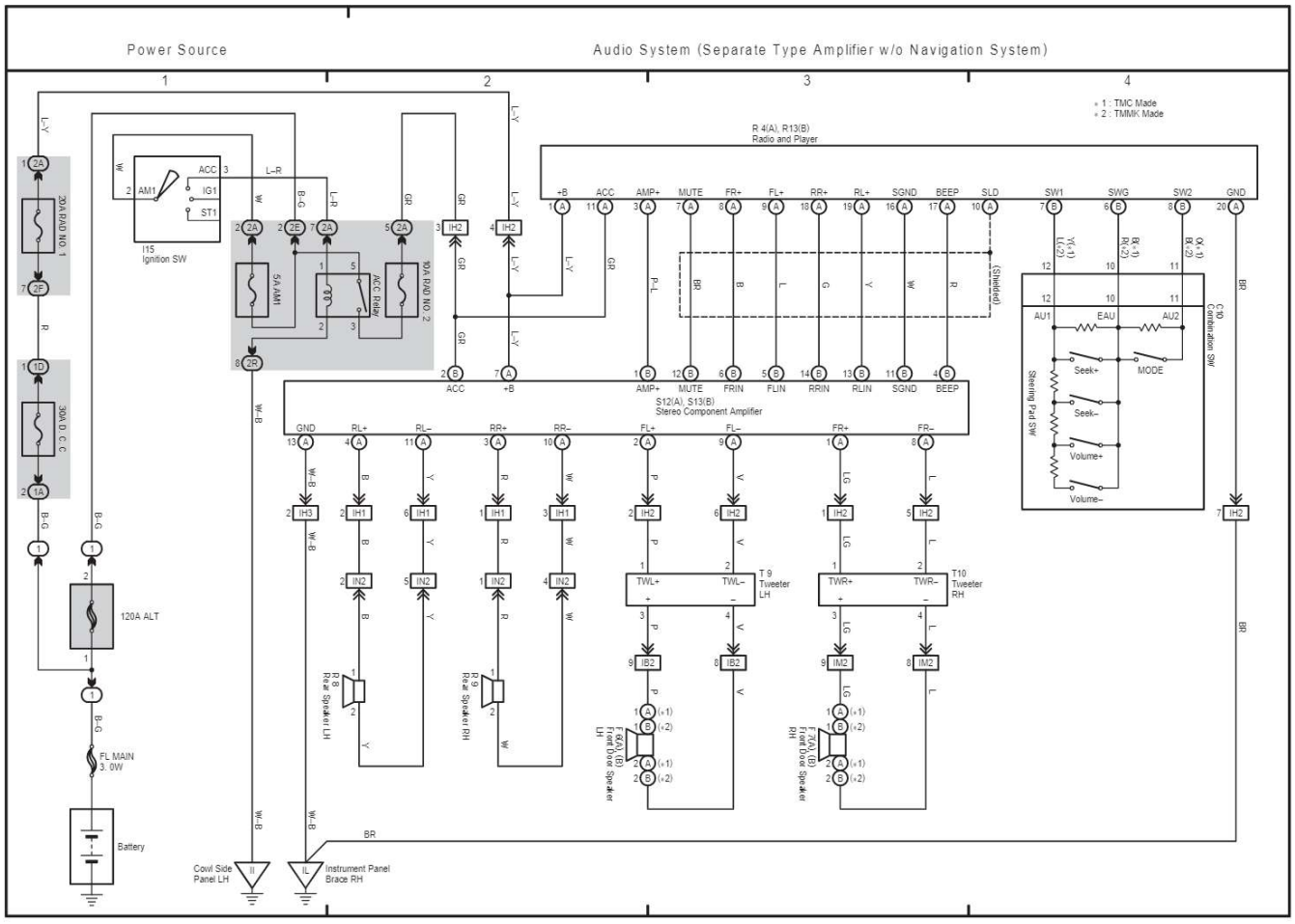
25 CAMRY


Power Source
Power Adjustable Pedals
* 1 : TMC Made w/ VSC
* 2 : TMMK Made w/ VSC
* 3 : TMC Made
* 4 : TMMK Made
1
2
3
4
I15
Ignition SW
ACC
IG1
ST1
AM1
30A ADJ PDL
120A ALT
FL MAIN
3. 0W
Battery
5A AM1
IG1 Relay
10A GAUGE2
A4
A/T Indicator
Light 3.0W
A34
Adjustable Pedal
Motor
ADJ PDL
Relay
Skid Control ECU
with Actuator <S3-8>
Adjustable Pedal SW
FRONT
BACK
FR
RR
Cowl Side Panel LH
Left Fender

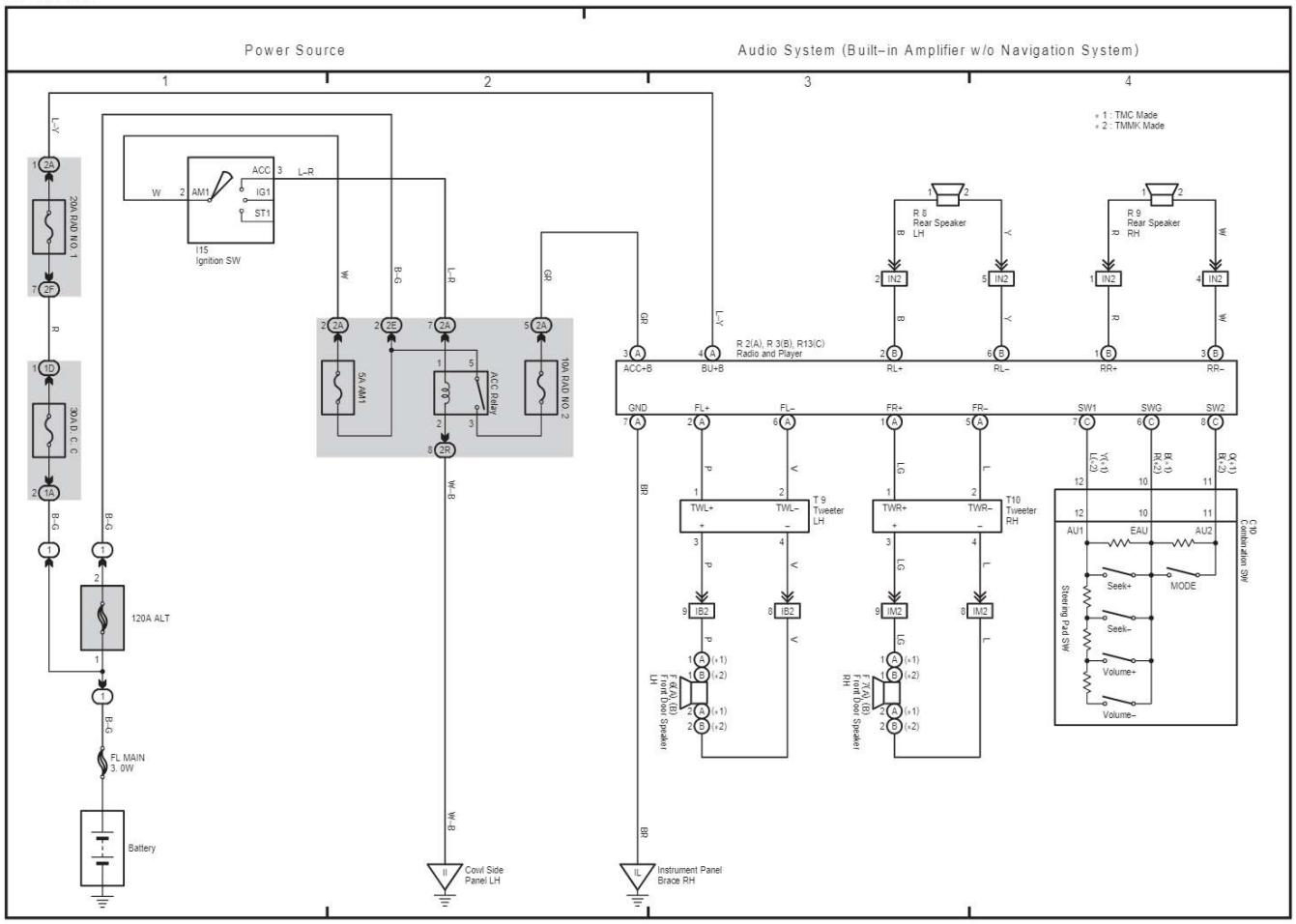

Power Source
Clock
1
2
3
4
* 1 : Automatic A/C
* 2 : Manual A/C
I15
Ignition SW
ACC
IG1
ST1
AM1
5A AM1
IG1 Relay
ACC Relay
10A GAUGE1
5A ECU-ACC
7.5A DOME
30A D, C, C
120A ALT
FL MAIN
3. 0W
Battery
Cowl Side
Panel LH
A1
Ambient
Temp. Sensor
C10
Combination SW
MODE/RESET
INFO
RH
LH
Steering Pad SW
+DP
EAU
J7(A), J8(B)
Junction
Connector
Audio System
<27-4><28-4><29-4>
IF3
IF3
A/C Control
Assembly
<32-7><33-7>
Combination Meter
<30-4>
Injector No.1
<5-9><6-9>
IGN Fuse
<5-10><6-10>
Combination Meter
<30-6>
Airbag Sensor
Assembly<16-6>
Illumination System
<10-6>
Seat Belt Warning
System<17-3>
SRS System
<16-3>
(1MZ-FE)
TX1–
GND
IG
ACC
+B
TH–(+1)
SG (+2)
TH+
DATA
SPD
TAU
TAUB
FUEL
P–AB
TAIL
PBEW
PAON
SW1
C 5(A), (B)
Clock

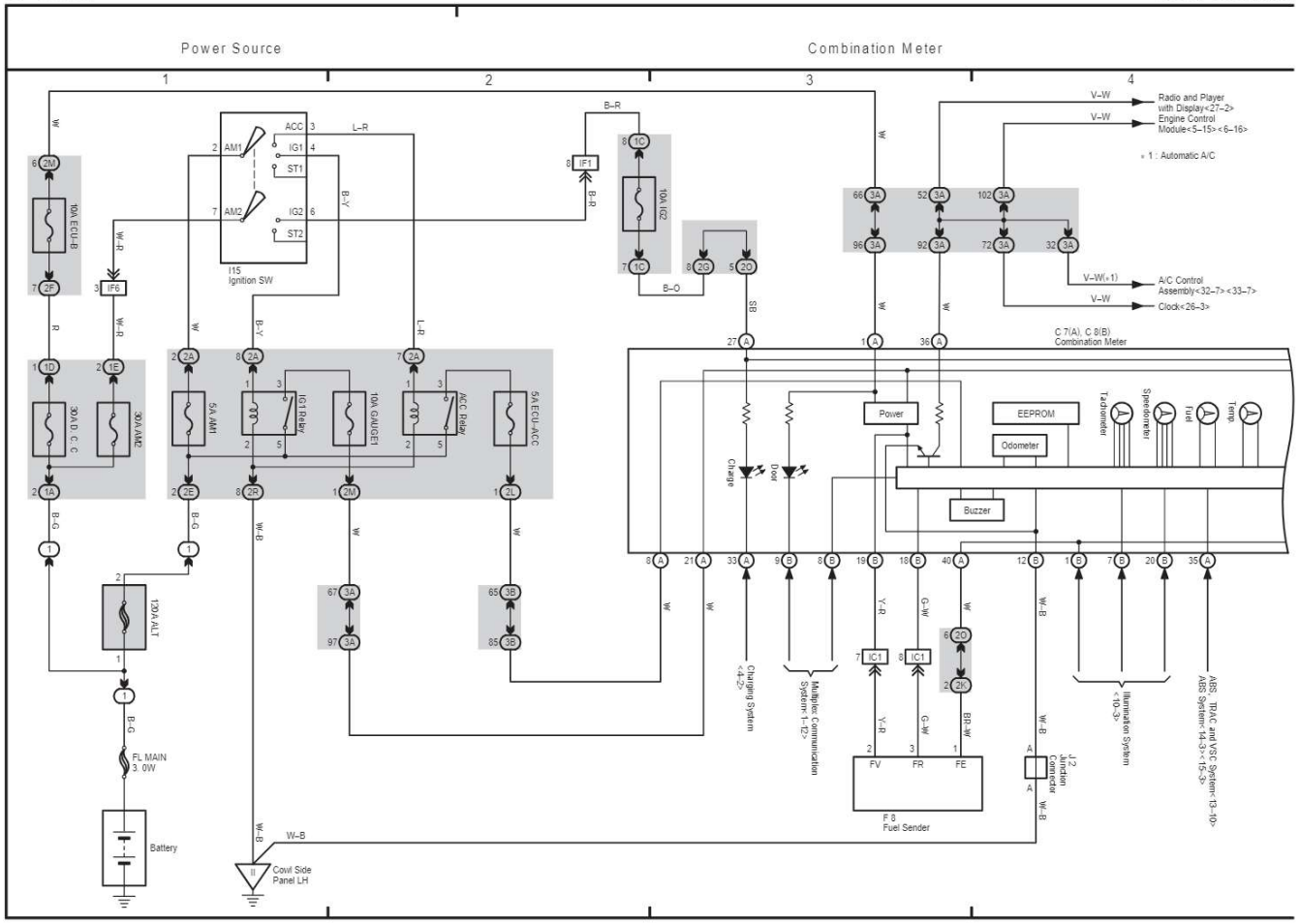
27 CAMRY

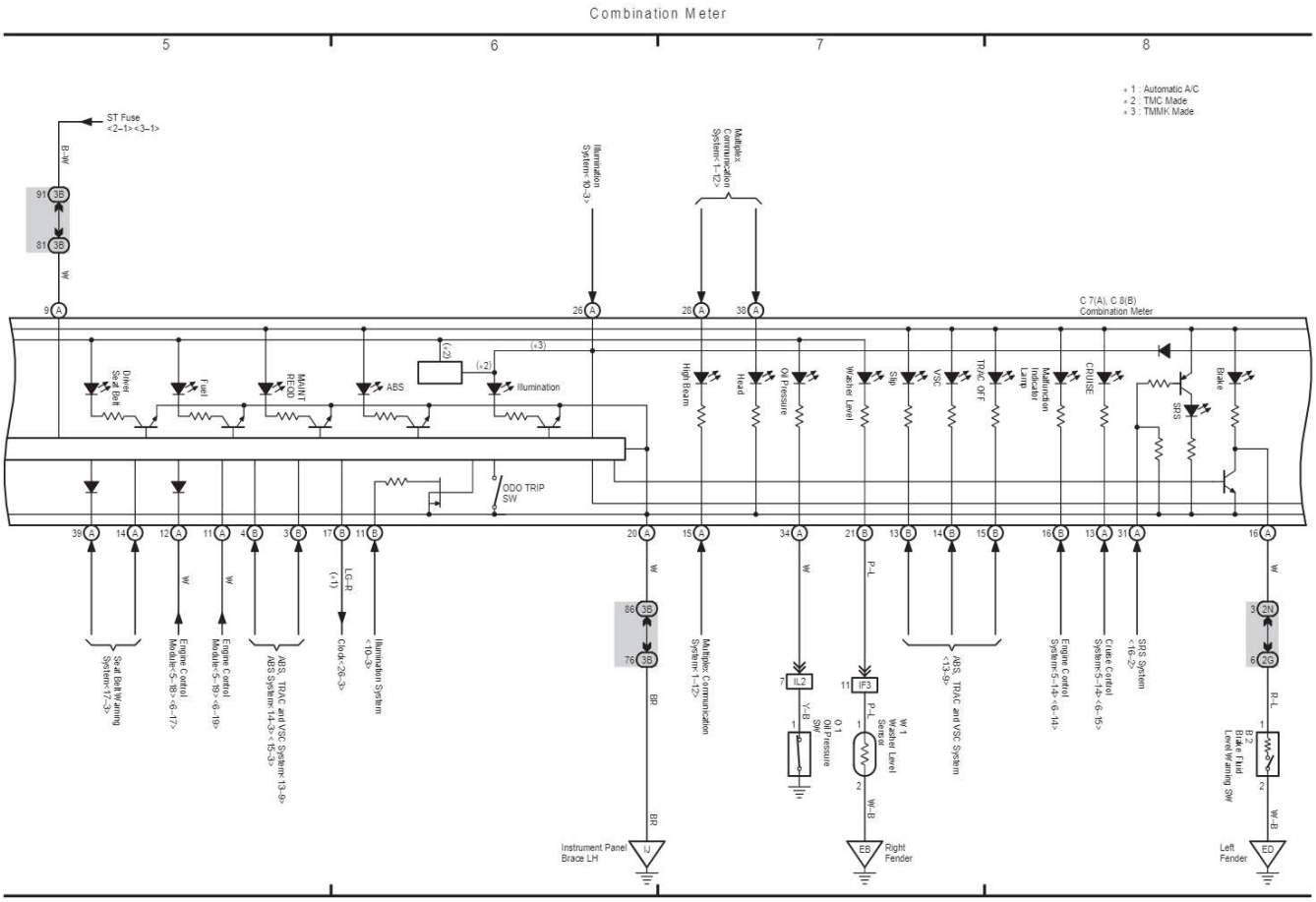

Power Source
Navigation System, Audio System
1
2
3
4
* 1 : TMC Made
* 2 : TMMK Made
R 4(A), R12(B), R13(C)
Radio and Player with Display
B
ACC
SPD
REV
AMP
MUTE
F. R
F. L
R. R
R. L
SGND
BEEP
SLD
SW1
SWG
SW2
GND
(Shielded)
20A RAD NO. 1
30A D. C. C
I15
Ignition SW
ACC
IG1
ST1
AM1
5A AM1
ACC Relay
10A RAD NO. 2
Combination Meter <3—4>
A/T Indicator Light <7-7>
C10
Combination SW
AU1
EAU
AU2
Seek+
Seek–
MODE
Volume+
Volume–
Steering Pad SW
S12(A), S13(B)
Stereo Component Amplifier
AMP+
MUTE
FRIN
FLIN
RRIN
RLIN
SGND
BEEP
GND
RL+
RL–
RR+
RR–
FL+
FL–
FR+
FR–
T 9
Tweeter
LH
T10
Tweeter
RH
TWL+
TWL–
TWR+
TWR–
Rear Door Speaker LH
Rear Door Speaker RH
Front Door Speaker LH
Front Door Speaker RH
120A ALT
FL MAIN
3. 0W
Battery
Cowl Side Panel LH
Instrument Panel Brace RH


Power Source
Audio System (Separate Type Amplifier w/o Navigation System)
1
2
3
4
* 1 : TMC Made
* 2 : TMMK Made
R 4(A), R13(B)
Radio and Player
+B ACC AMP+ MUTE FR+ FL+ RR+ RL+ SGND BEEP SLD SW1 SWG SW2 GND
(Shielded)
S12(A), S13(B)
Stereo Component Amplifier
GND RL+ RL– RR+ RR– FL+ FL– FR+ FR–
AMP+ MUTE FRIN FLIN RRIN RLIN SGND BEEP
ACC +B
C10
Combination SW
AU1 EAU AU2
Seek+ MODE
Seek–
Volume+
Volume–
Steering Pad SW
20A RAD NO. 1
30A D. C. C
5A AM1
10A RAD NO. 2
ACC Relay
I15
Ignition SW
ACC IG1 ST1 AM1
120A ALT
FL MAIN
3. 0W
Battery
Cowl Side Panel LH
Instrument Panel Brace RH
R8
Rear Speaker LH
R9
Rear Speaker RH
T9
Tweeter LH
T10
Tweeter RH
TWL+ TWL–
TWR+ TWR–
F16(A), (B)
Front Door Speaker LH
F16(A), (B)
Front Door Speaker RH
L–Y
L–R
B–G
W
GR
W–B
BR
P–L
BR
B
L
G
Y
W
R
P
V
LG

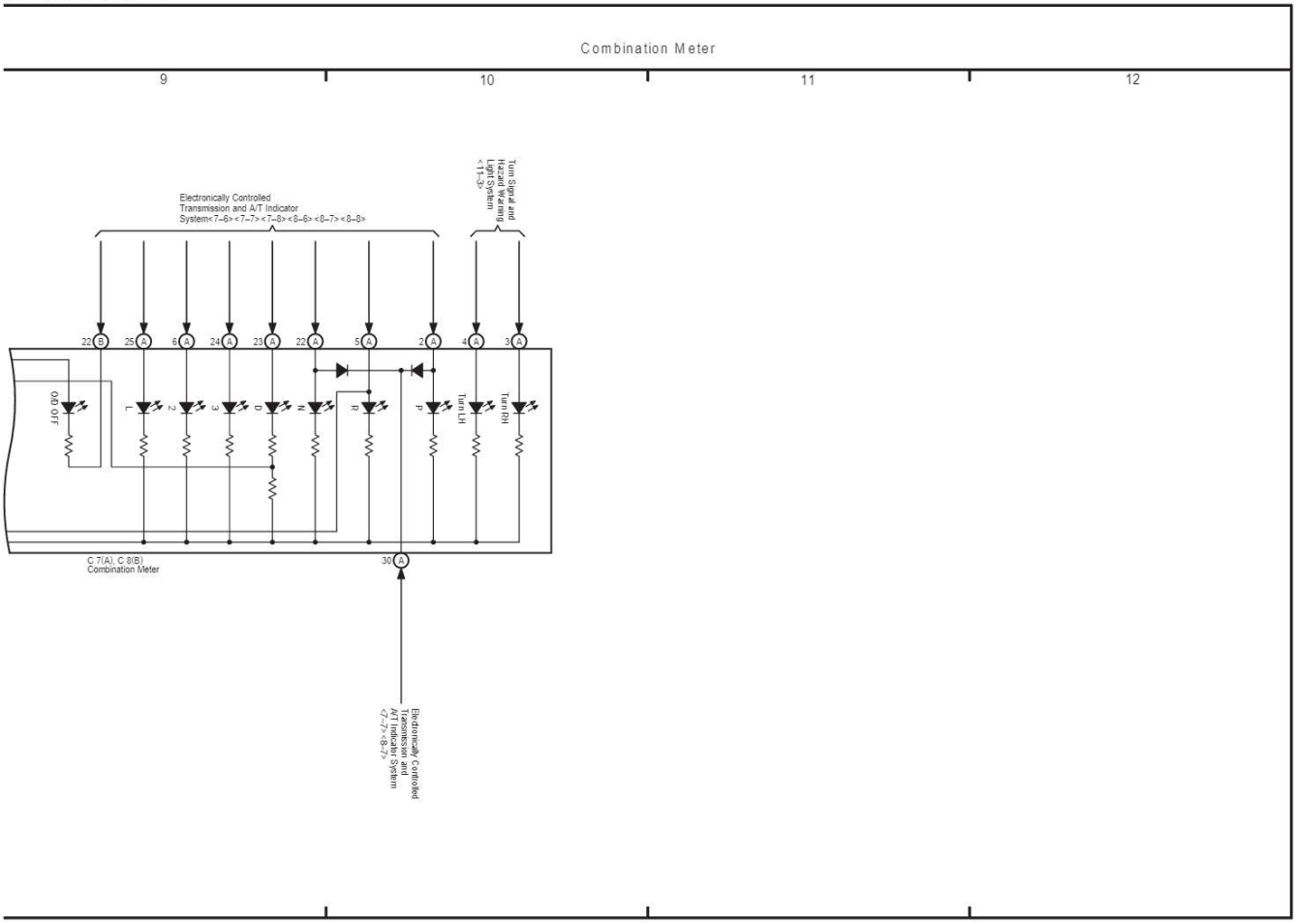
29 CAMRY

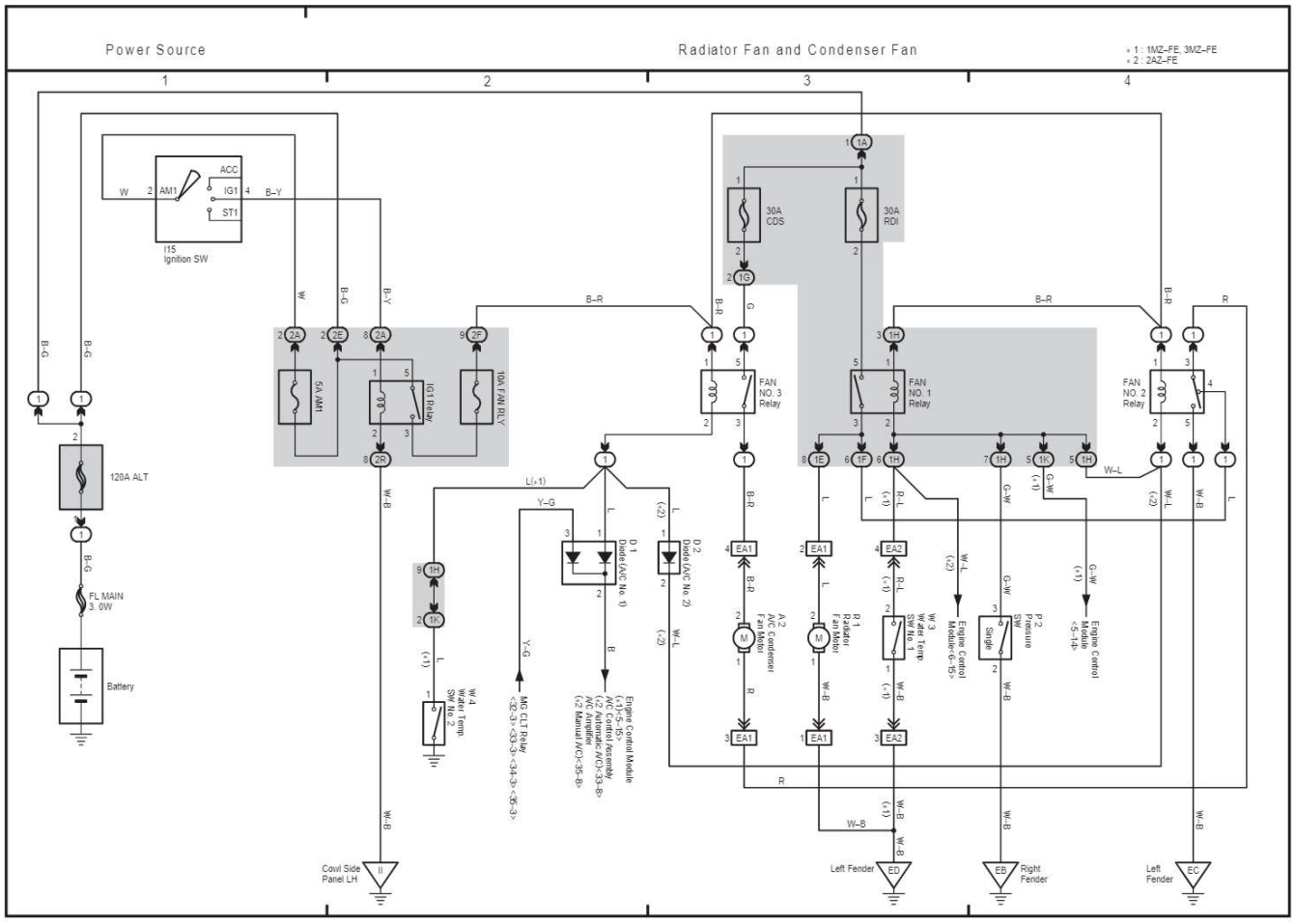

Power Source
Audio System (Built–in Amplifier w/o Navigation System)
1
2
3
4
* 1 : TMC Made
* 2 : TMMK Made
20A RAD NO. 1
30A D. C. C.
120A ALT
FL MAIN 3. 0W
Battery
I15 Ignition SW
ACC
IG1
ST1
AM1
5A AM1
ACC Relay
10A RAD NO. 2
Cowl Side Panel LH
Instrument Panel Brace RH
R 2(A), R 3(B), R13(C) Radio and Player
ACC+B
BU+B
GND
R 8 Rear Speaker LH
R 9 Rear Speaker RH
RL+
RL–
RR+
RR–
FL+
FL–
FR+
FR–
T 9 Tweeter LH
T10 Tweeter RH
TWL+
TWL–
TWR+
TWR–
F3(A) (B) Front Door Speaker LH
F3(A) (B) Front Door Speaker RH
SW1
SWG
SW2
C10 Combination SW
AU1
EAU
AU2
Seek+
MODE
Seek–
Volume+
Volume–
Steering Pad SW


Power Source
Combination Meter
1
2
3
4
10A ECU-B
I15 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
10A IG2
B–O
SB
Radio and Player with Display<27–2>
Engine Control Module<5–15><6–16>
V–W
* 1 : Automatic A/C
A/C Control Assembly<32–7><33–7>
Clock<26–3>
V–W(*1)
C 7(A), C 8(B) Combination Meter
Power
EEPROM
Odometer
Buzzer
Tachometer
Speedometer
Fuel
Temp.
Charge
Door
30A A.D.C.C
30A AM2
5A AM1
IG1 Relay
10A GAUGE1
ACC Relay
5A ECU-ACC
120A ALT
FL MAIN 3.0W
Battery
Cowl Side Panel LH
W–B
Charging System <4–2>
Multiplex Communication System<1–12>
Illumination System <10–3>
ABS, TRAC and VSC System<13–10> ABS System<14–3><15–3>
J2 Junction Connector
F 8 Fuel Sender
FV
FR
FE


Combination Meter
5
6
7
8
* 1 : Automatic A/C
* 2 : TMC Made
* 3 : TMMK Made
ST Fuse <2-1><3-1>
B-W
91 3B
81 3B
W
9 A
26 A
28 A
38 A
Illumination System<10-3>
Multiplex Communication System<1-12>
C 7(A), C 8(B) Combination Meter
Driver Seat Belt
Fuel
MAINT REQD
ABS
(+2)
(+3)
Illumination
High Beam
Head
Oil Pressure
Washer Level
Slip
VSC
TRAC OFF
Malfunction Indicator Lamp
CRUISE
SRS
Brake
ODO TRIP SW
39 A
14 A
12 A
11 A
4 B
3 B
17 B
11 B
20 A
15 A
34 A
21 B
13 B
14 B
15 B
16 B
13 A
31 A
16 A
W
P-L
LG-R
(+1)
86 3B
76 3B
BR
7 IL2
Y-B
Oil Pressure SW
11 IF3
P-L
W-B
Wiper Washer Level Sensor
3 2N
6 2G
R-L
B-2
Brake Fluid Level Warning SW
Seat Belt Warning System<17-3>
Engine Control Module<5-18>,<6-17>
Engine Control Module<5-19>,<6-19>
ABS, TRAC and VSC System<13-9>
ABS System<14-3>,<15-3>
Clock<26-3>
Illumination System <10-3>
Multiplex Communication System<1-12>
ABS, TRAC and VSC System <13-9>
Engine Control System<5-14>,<6-14>
Cruise Control System<5-14>,<6-15>
SRS System <16-2>
Instrument Panel Brace LH
IJ
EB
Right Fender
Left Fender
ED

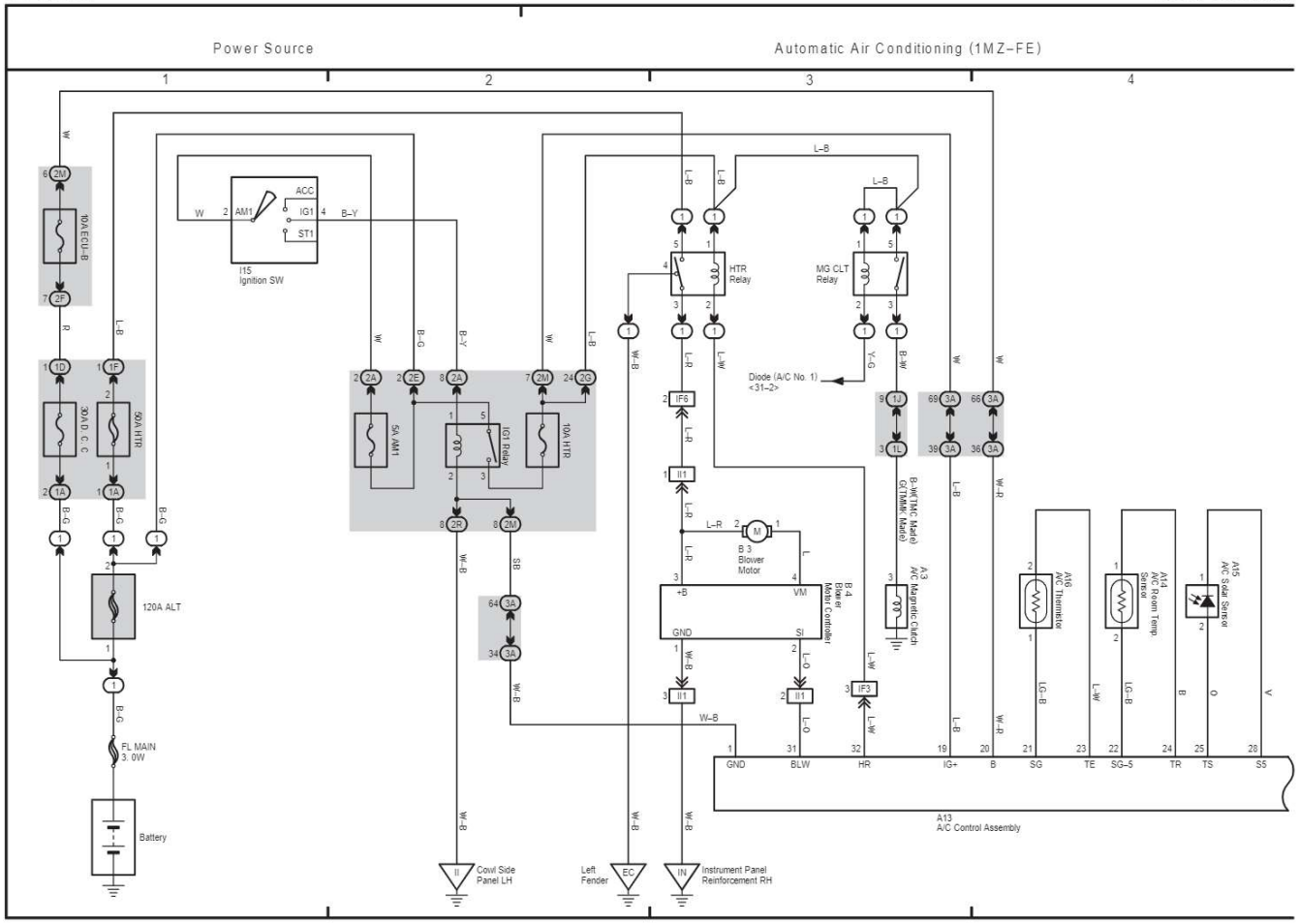
30 CAMRY (Cont' d)

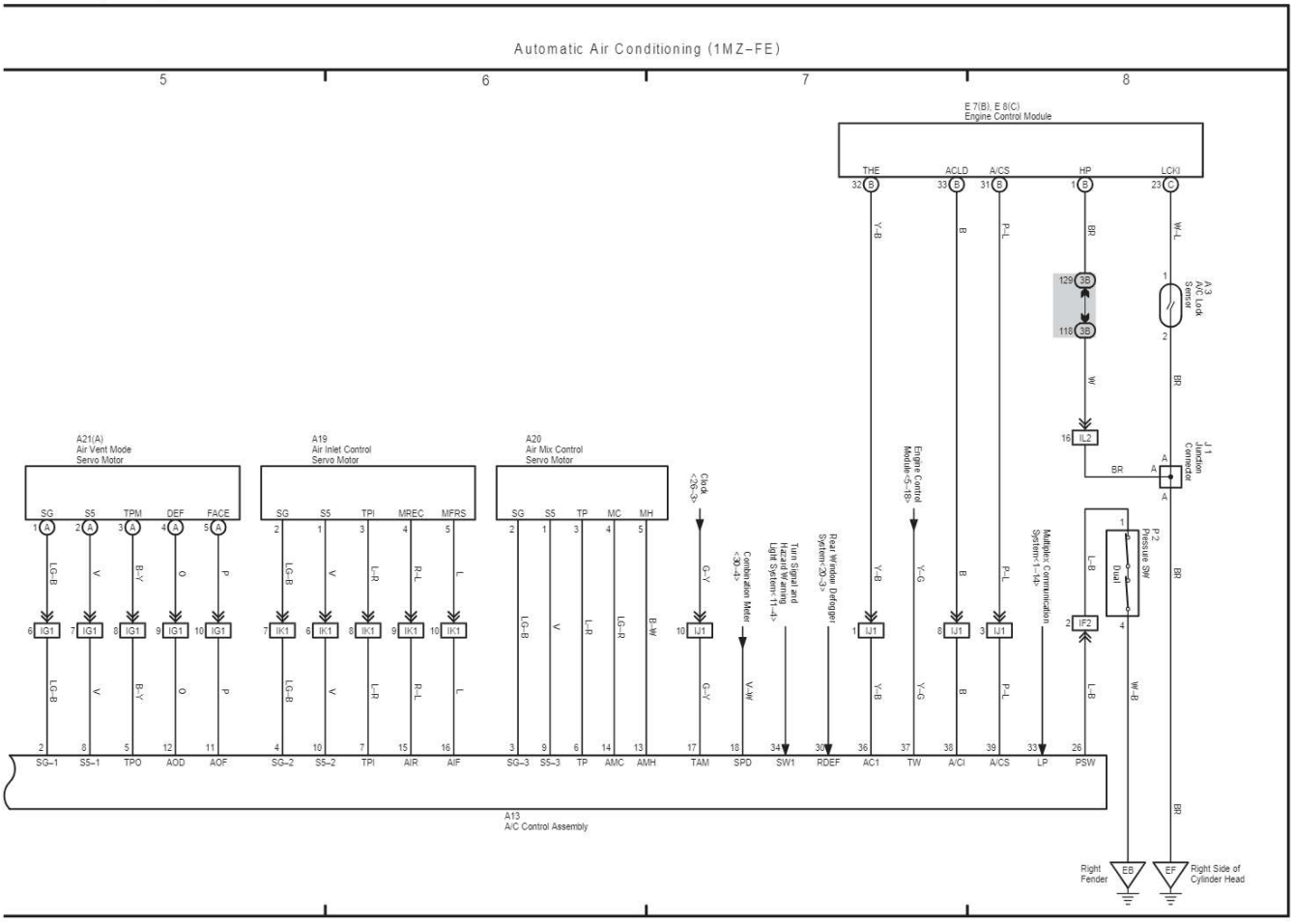



Power Source
Radiator Fan and Condenser Fan
* 1 : 1MZ–FE, 3MZ–FE
* 2 : 2AZ–FE
1
2
3
4
ACC
IG1
ST1
AM1
W
B–Y
I15
Ignition SW
B–G
W
B–Y
B–R
G
5A AM1
IG1 Relay
10A FAN RLY
30A CDS
30A RDI
FAN NO. 3 Relay
FAN NO. 1 Relay
FAN NO. 2 Relay
120A ALT
FL MAIN
5. 0W
Battery
W–B
L(+1)
Y–G
D 1 Diode (A/C No. 1)
D 2 Diode (A/C No. 2)
(–2)
W–L
A 2 A/C Condenser Fan Motor
R 1 Radiator Fan Motor
W 3 Water Temp SW No. 1
W 4 Water Temp SW No. 2
MG CLT Relay
<32–3>-<33–3>-<34–3>-<35–3>
Engine Control Module (+1)<15–5> A/C Control Assembly (+2 Automatic A/C)<33–8> A/C Amplifier (+2 Manual A/C)<35–8>
P 2 Pressure SW
Single
Engine Control Module<6–15>
Engine Control Module<5–14>
R–L
G–W
(+1)
(–1)
R
Cowl Side Panel LH
Left Fender
Right Fender
Left Fender

32 CAMRY

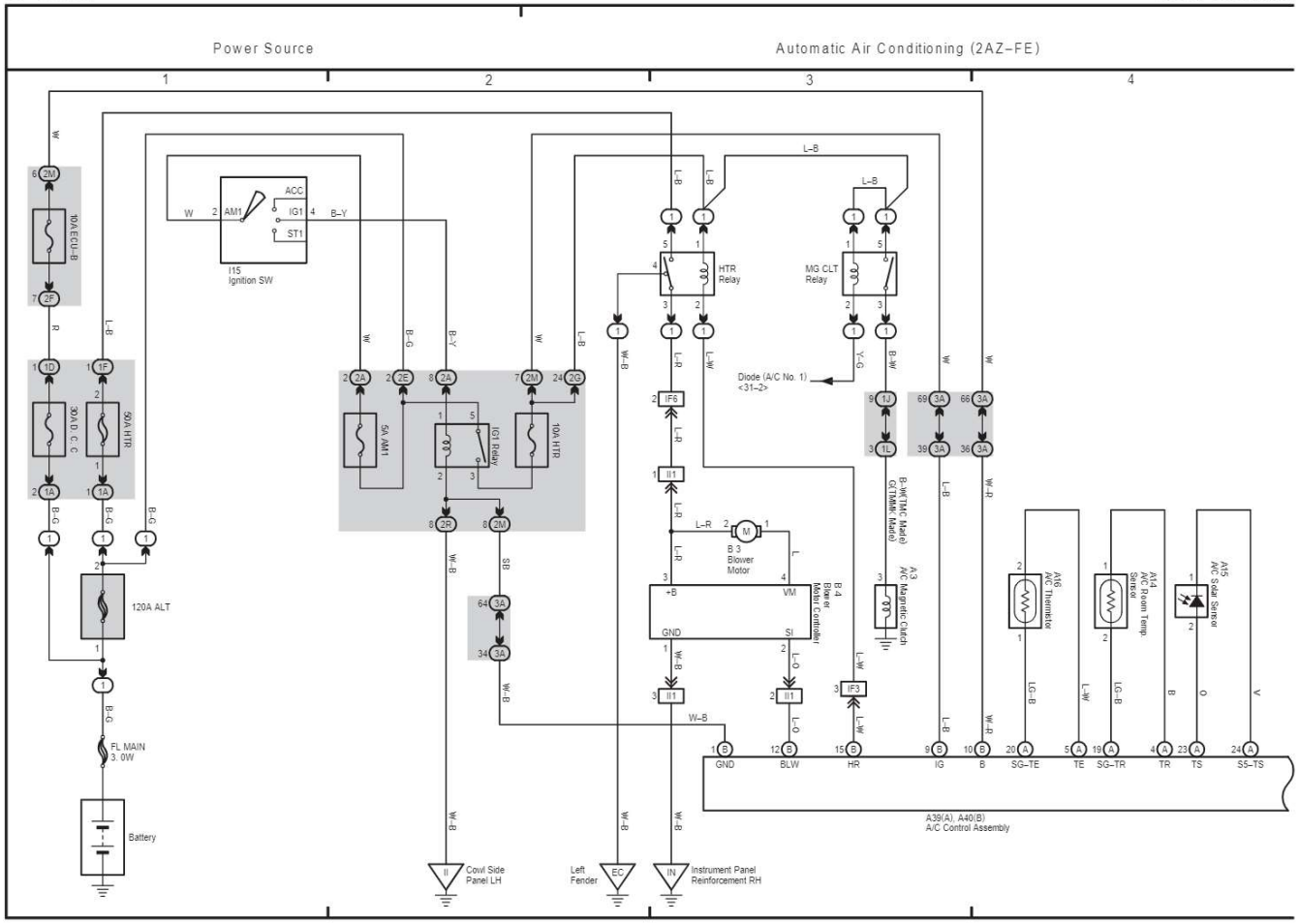
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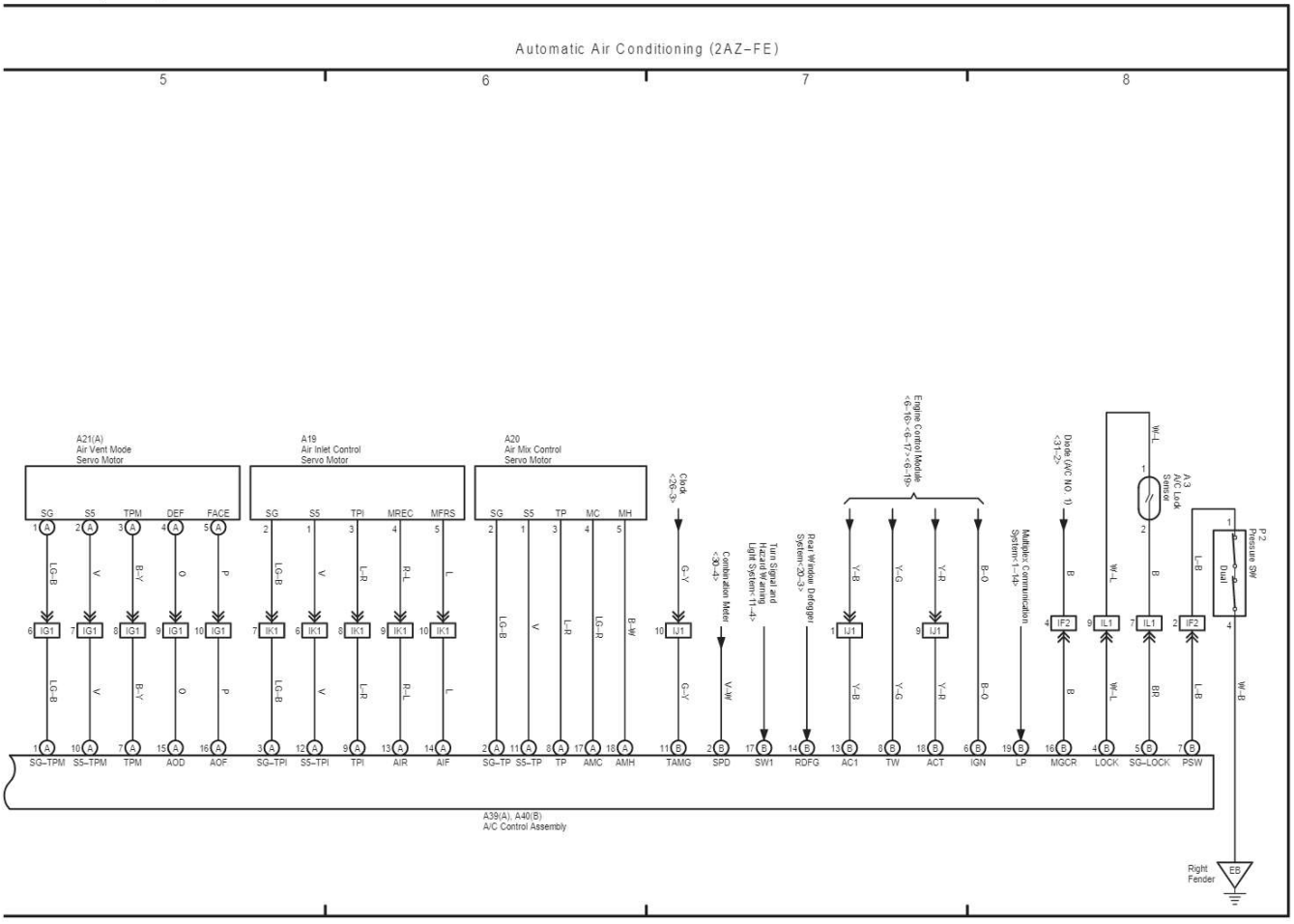



Automatic Air Conditioning (1MZ–FE)
5
6
7
8
E7(B), E8(C)
Engine Control Module
THE
ACLD
A/CS
HP
LCKI
A21(A)
Air Vent Mode
Servo Motor
A19
Air Inlet Control
Servo Motor
A20
Air Mix Control
Servo Motor
Clock
<26-3>
Combination Meter
<30-4>
Turn Signal and
Hazard Warning
Light System <11-4>
Rear Window Defogger
System <33-3>
Engine Control
Module <5-18>
Multiplex Communication
System <1-4>
A3
Lock
Control
Sensor
J1
Junction
Connector
P2
Pressure SW
Dual
A13
A/C Control Assembly
Right
Fender
Right Side of
Cylinder Head

33 CAMRY

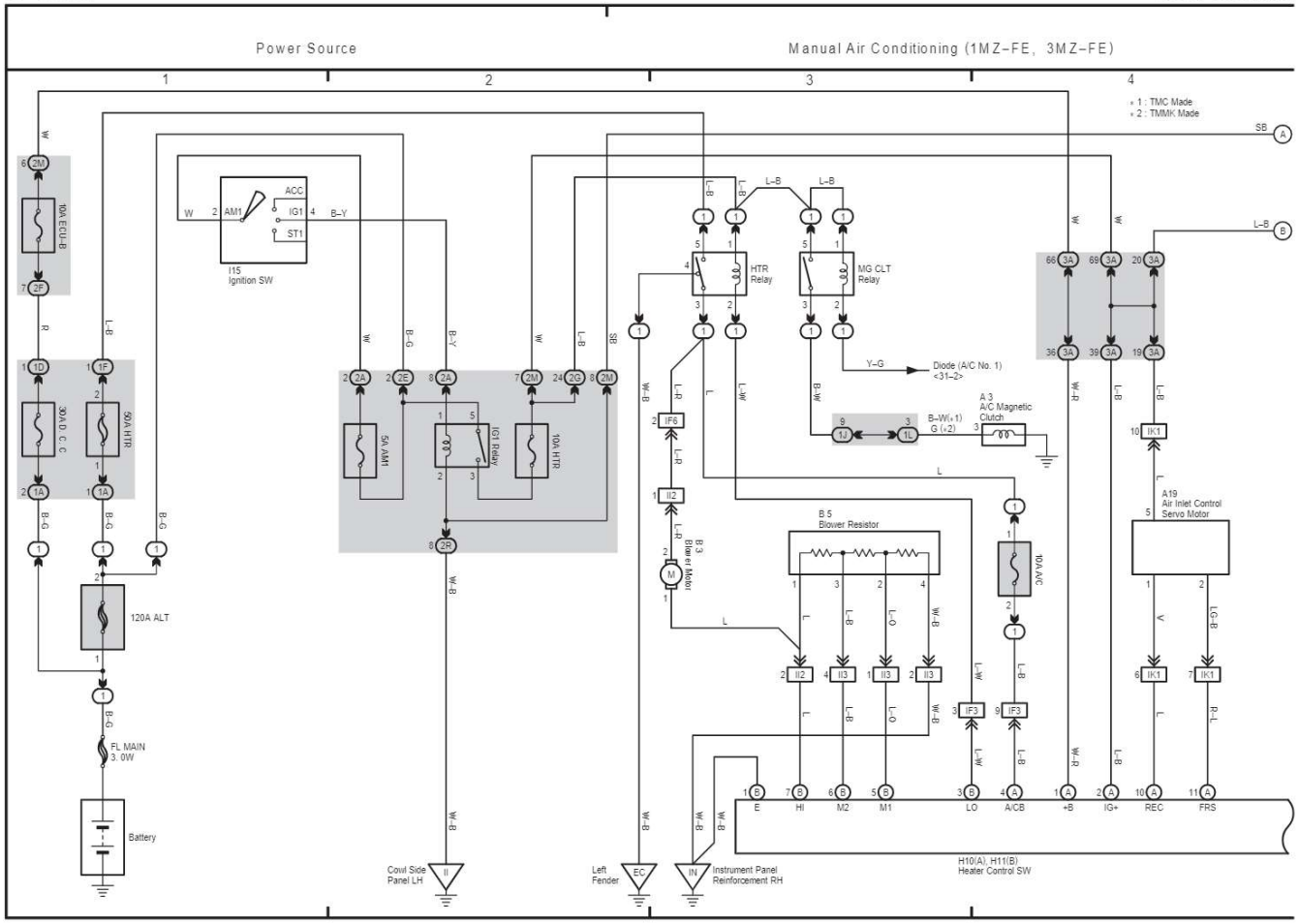
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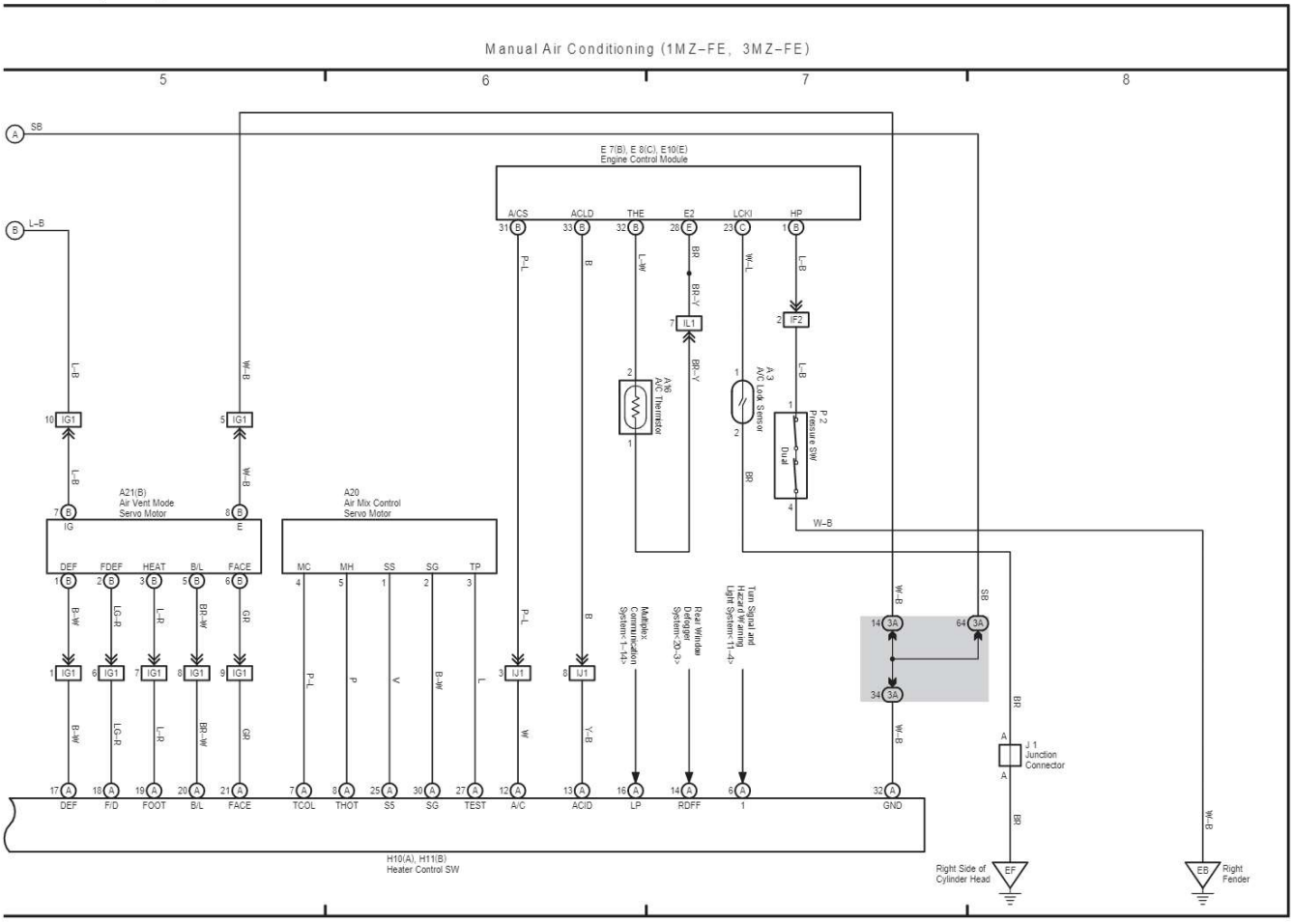



Automatic Air Conditioning (2AZ–FE)
5
6
7
8
A21(A)
Air Vent Mode
Servo Motor
A19
Air Inlet Control
Servo Motor
A20
Air Mix Control
Servo Motor
SG
S5
TPM
DEF
FACE
TPI
MREC
MFRS
MC
MH
LG–B
V
B–Y
O
P
L–R
R–L
L
G–Y
Clock
<20–3>
Combination Meter
<30–2>
V–W
Turn Signal and
Hazard Warning
Light System<11–4>
Rear Window Defogger
System<20–3>
Engine Control Module
<6–16><6–17><6–19>
Y–B
Y–G
Y–R
B–O
Multiplex Communication
System<1–14>
Diode (A/C NO. 1)
<31–2>
B
W–L
A/C Lock
Sensor
BR
L–B
P.S.
Pressure SW
Dual
W–B
IG1
IK1
IJ1
IF2
IL1
SG–TPM
S5–TPM
TPM
AOD
AOF
SG–TPI
S5–TPI
TPI
AIR
AIF
SG–TP
S5–TP
TP
AMC
AMH
TAMG
SPD
SW1
RDFG
AC1
TW
ACT
IGN
LP
MGCR
LOCK
SG–LOCK
PSW
A39(A), A40(B)
A/C Control Assembly
Right
Fender
EB

34 CAMRY

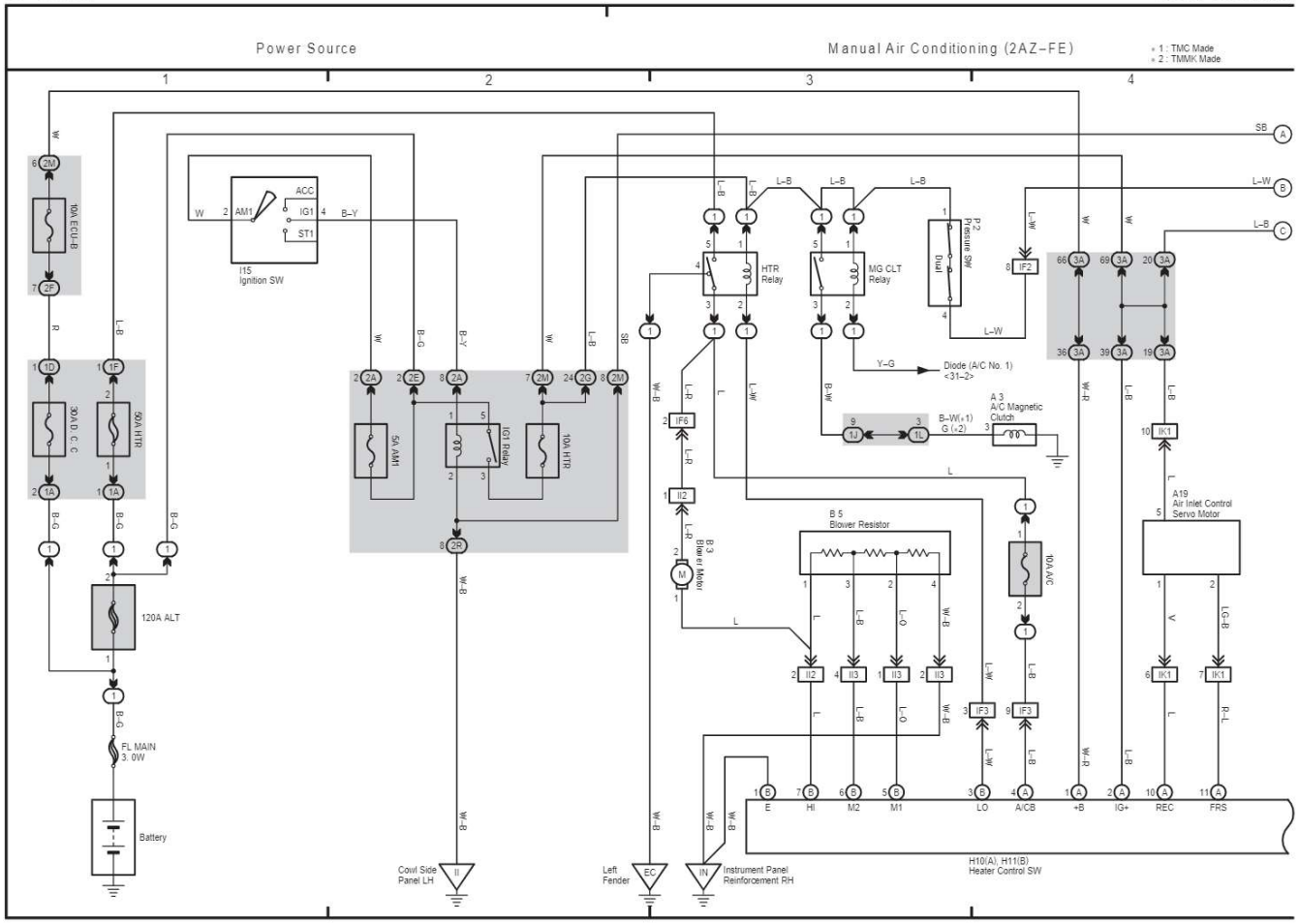
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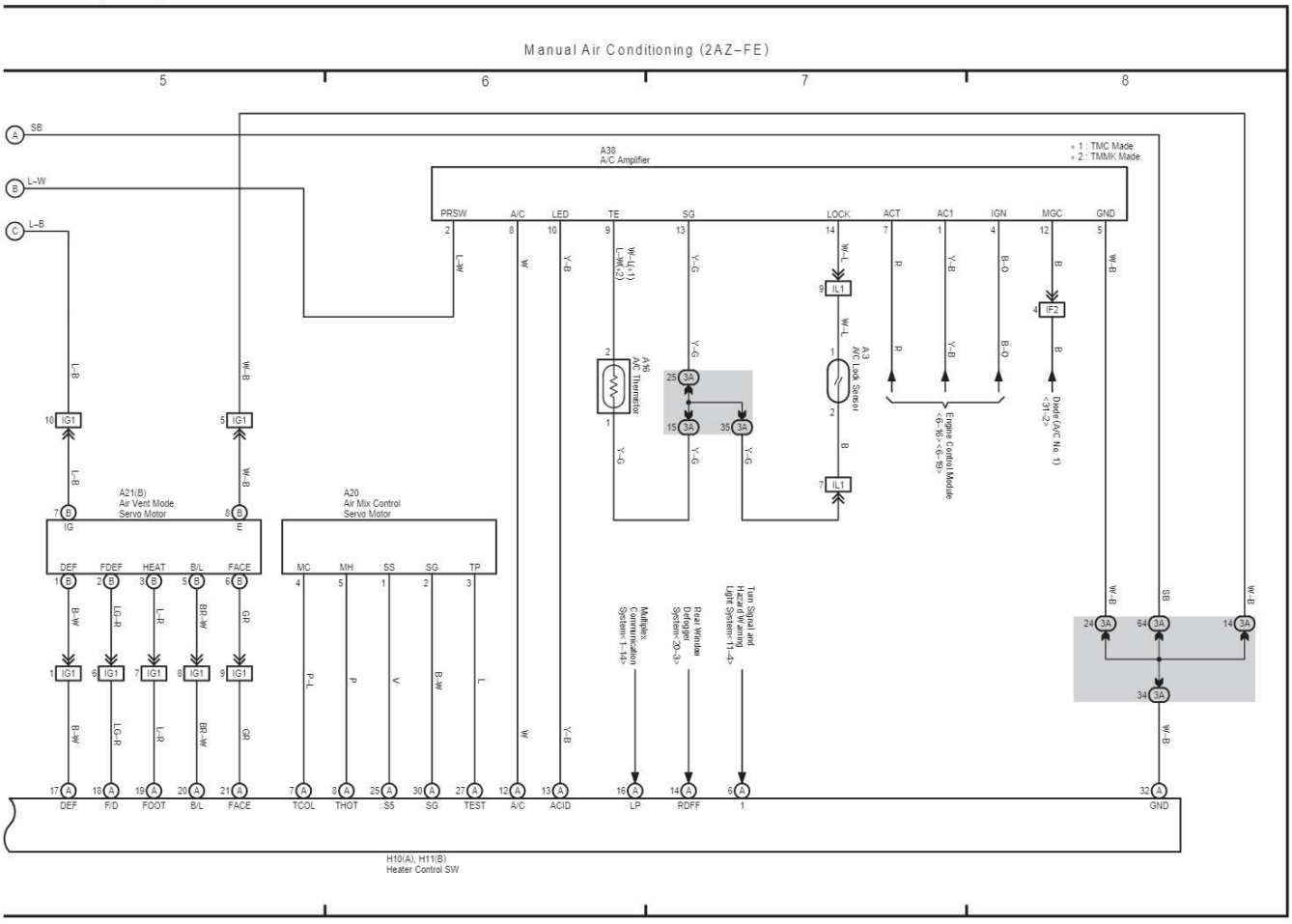



Manual Air Conditioning (1MZ–FE, 3MZ–FE)
5
6
7
8
E 7(B), E 8(C), E10(E)
Engine Control Module
A/CS
ACLD
THE
E2
LCKI
HP
A21(B)
Air Vent Mode
Servo Motor
A20
Air Mix Control
Servo Motor
A16
A/C Thermistor
A 3
A/C Lock Sensor
P 2
Pressure SW
Dual
DEF
FDEF
HEAT
B/L
FACE
MC
MH
SS
SG
TP
Multiplex Communication System<1-14>
Rear Window Defogger System<20-3>
Turn Signal and Hazard Warning Light System<11-4>
J 1
Junction Connector
H10(A), H11(B)
Heater Control SW
Right Side of Cylinder Head
Right Fender

35 CAMRY

(Cont. next page)




Manual Air Conditioning (2AZ–FE)
5
6
7
8
A38
A/C Amplifier
* 1 : TMC Made
* 2 : TMMK Made
PRSW
A/C
LED
TE
SG
LOCK
ACT
AC1
IGN
MGC
GND
A21(B)
Air Vent Mode
Servo Motor
A20
Air Mix Control
Servo Motor
DEF
FDEF
HEAT
B/L
FACE
MC
MH
SS
SG
TP
A36
A/C Thermistor
A3
A/C Lock Sensor
Engine Control Module
<6–T6>,<6–T9>
Diode (A/C No. 1)
<3H-2>
Multiplex
Communication
System <1–14>
Rear Window
Defogger
System <20–3>
Turn Signal and
Hazard Warning
Light System <11–4>
H10(A), H11(B)
Heater Control SW