FOREWORD

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

Applicable models: GSV40 Series
ACV40 Series

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

Manual Name	Pub. No.
● 2007 CAMRY Repair Manual	RM0250U
● 2007 CAMRY New Car Features	NM0250U

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

TOYOTA MOTOR CORPORATION

NOTICE

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

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2007 CAMRY
ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

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

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

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

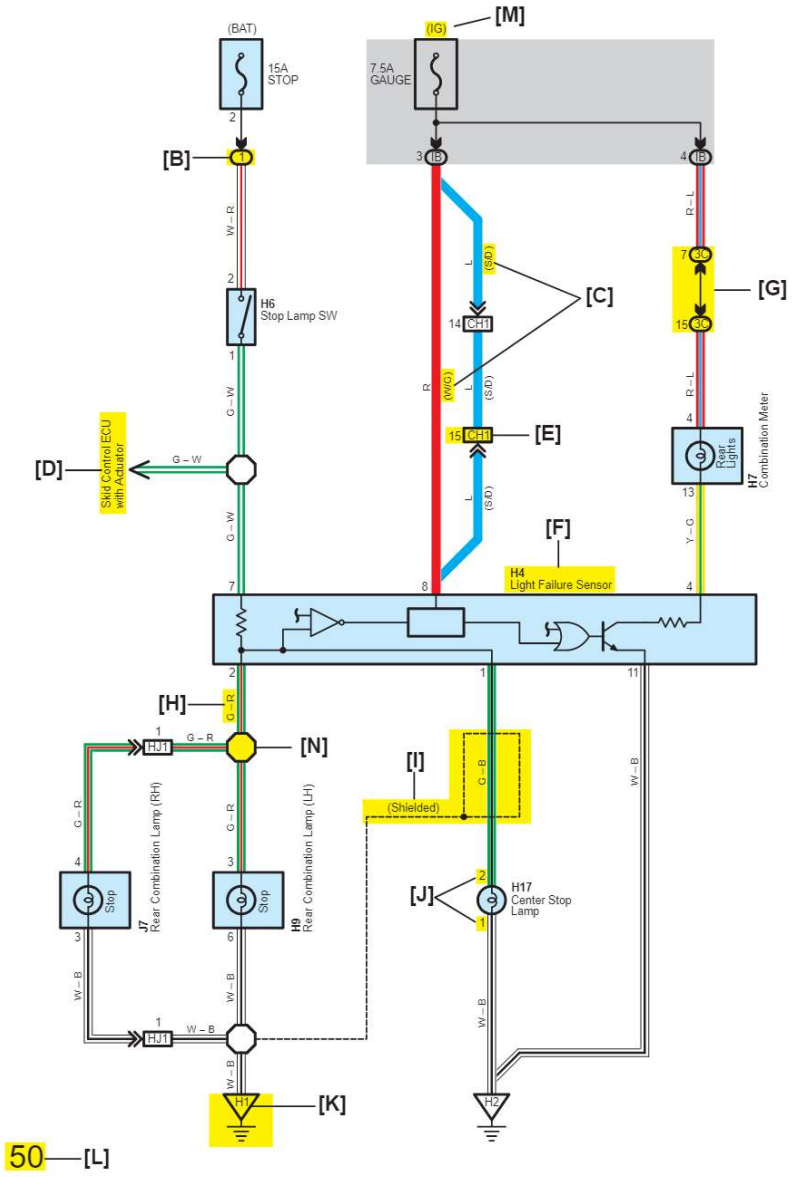
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand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

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

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

[A]

Stop Light



[A] : System Title

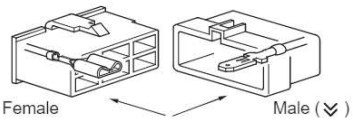
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: (1) Indicates Relay Block No.1

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

[D] : Indicates related system.

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



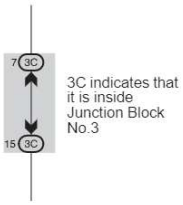
The first character of the connector code indicates the alphabetical code allocated to the wire harness which has the female connector, and the second shows that of the wire harness which has the male connector.
The third character indicates a serial number used to distinguish between the wire harness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

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

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

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

Example:



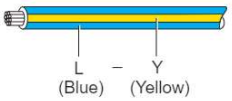
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

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

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

Example: L – Y

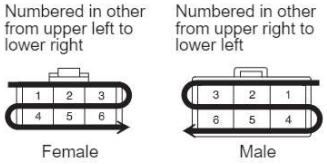


[I] : Indicates a shielded cable.



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

Example:



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

[L] : Page No.

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

[N] : Indicates a wiring Splice Point.

Example:



[O] **System Outline**

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

Stop Light Disconnection Warning

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

[P] ○ : Parts Location

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

[Q] ▭ : Relay Blocks

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

[R] ▭ : Junction Block and Wire Harness Connector

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

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

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

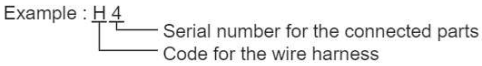
[T] ▽ : Ground Points

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

[O] : Explains the system outline.

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

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



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

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

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

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

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

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

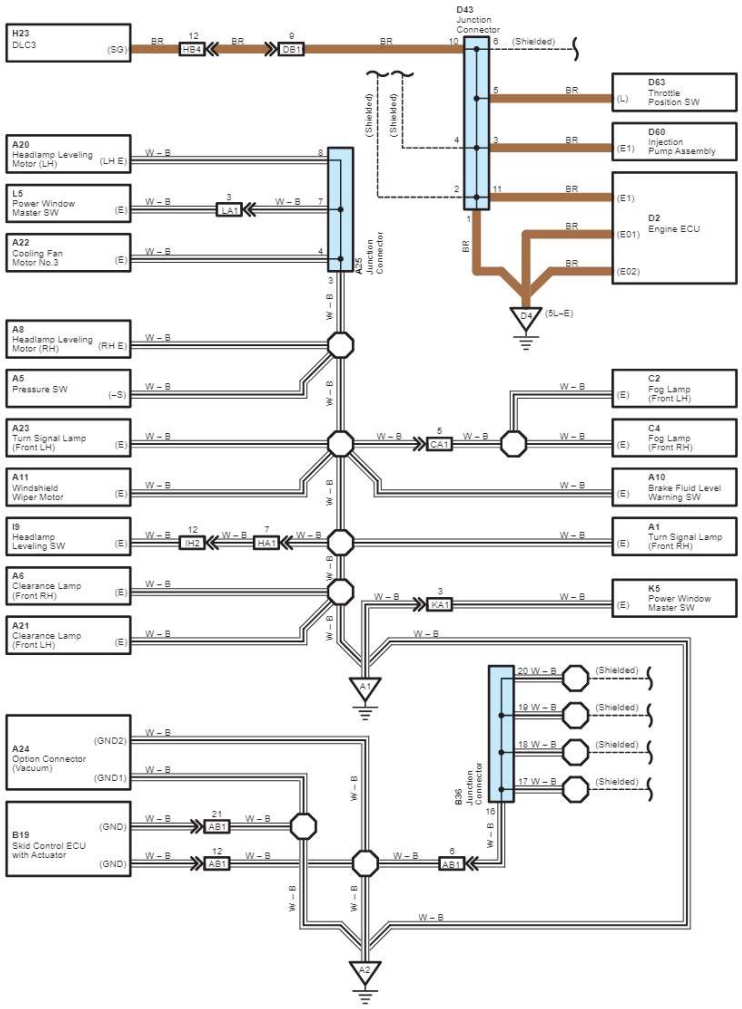
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

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

B HOW TO USE THIS MANUAL

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

I GROUND POINT

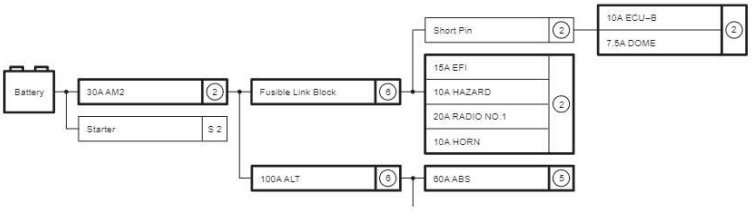


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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

J POWER SOURCE (Current Flow Chart)

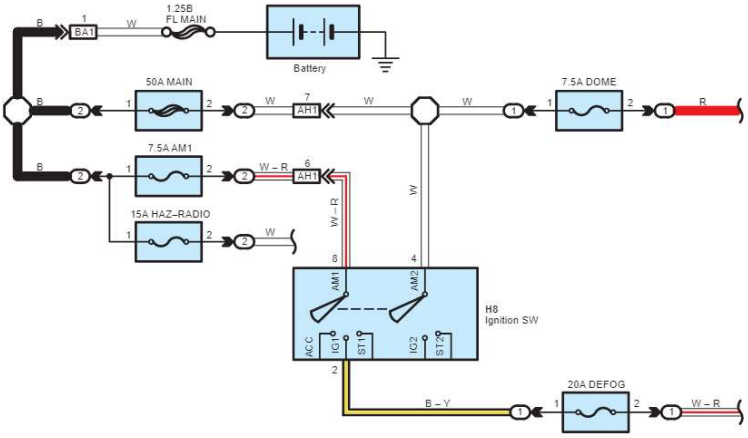
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

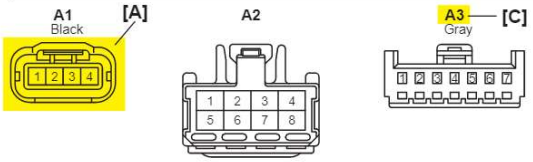
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off System	214 230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

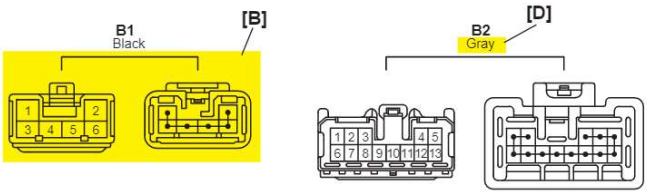
Power Source



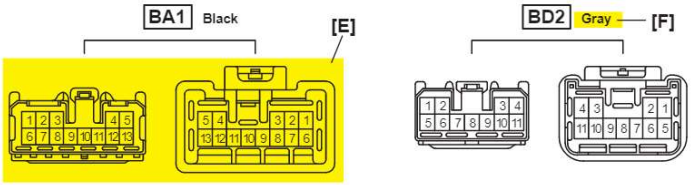
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



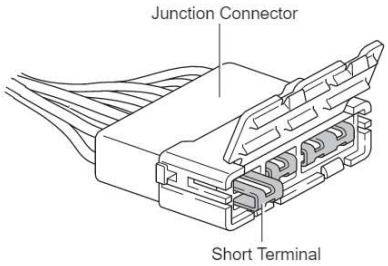


K CONNECTOR LIST



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

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



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

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

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

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

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

L PART NUMBER OF CONNECTORS

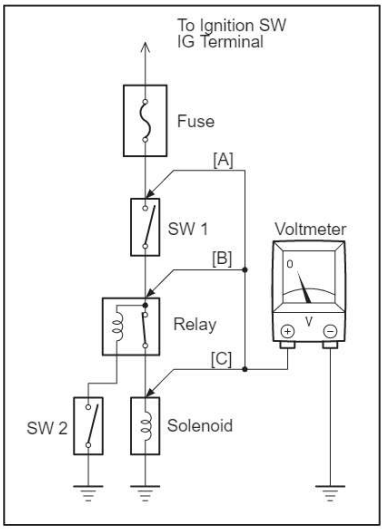
Code	Part Name	Part Number	Code	Part Name	Part Number
A1	Turn Signal Lamp (Front RH)	90980–11019	B22	Door Courtesy SW (Front LH)	90980–12470
A2	Inlet Air Temp. Sensor	90980–11163	B23	Front Seat Outer Belt (LH)	90980–12253
A3	Air Flow Meter	90980–12292	B24	Blower SW (Rear Heater)	90980–10463
A4	A/C Pressure Sensor	90980–10845	B25	Front Seat Outer Belt (RH)	90980–12253
A5	Pressure SW	90980–10943	B26	Door Courtesy SW (Front RH)	90980–12470
A6	Clearance Lamp (Front RH)	90980–11156	B27	Cooling Fan ECU No.1	90980–10841
[A]	Headla [B] LH)	909([C] 314	B28	Cooling Fan ECU No.2	
A8	Headlamp Leveling Motor (RH)	90980–11016	B29	Water Temp. Sensor (Radiator)	90980–10735
A9	Brake Vacuum Warning SW	90980–11252	B30	Fuel Filter Warning SW	90980–11003
A10	Brake Fluid Level Warning SW	90980–11207	B32	Door Control Relay (LH)	90980–10789
A11	Windshield Washer Motor	90980–11599	B33	Step Lamp (LH)	90980–10121
A12	Airbag Sensor (Front RH)	90980–11856	B34	Junction Connector	90980–11398
A13	Air [illegible]	90980–12490	B35	Junction Connector	

[A] : Part Code

[B] : Part Name

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

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

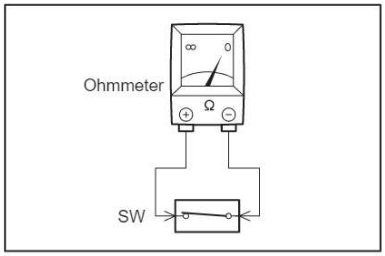


VOLTAGE CHECK

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

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

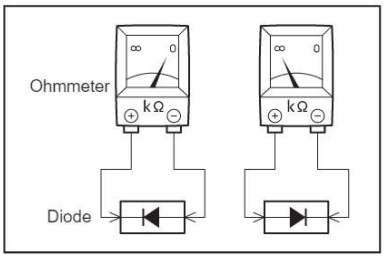
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



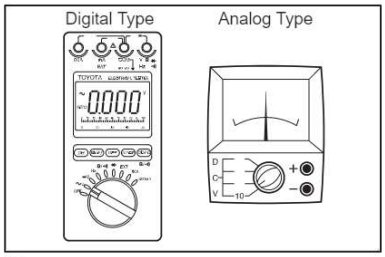
CONTINUITY AND RESISTANCE CHECK

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

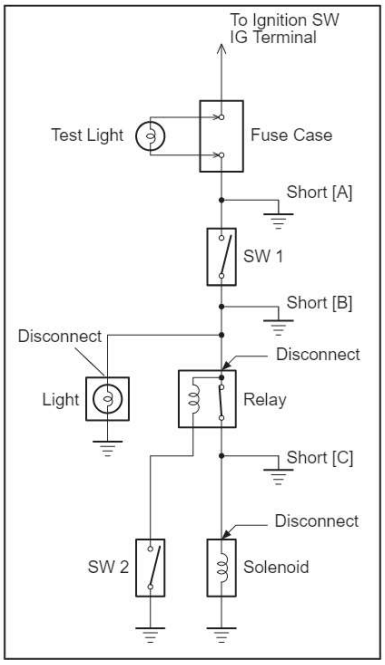
(b) Contact the two leads of an ohmmeter to each of the check points.



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



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



FINDING A SHORT CIRCUIT

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

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

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

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

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

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

CAUTION:

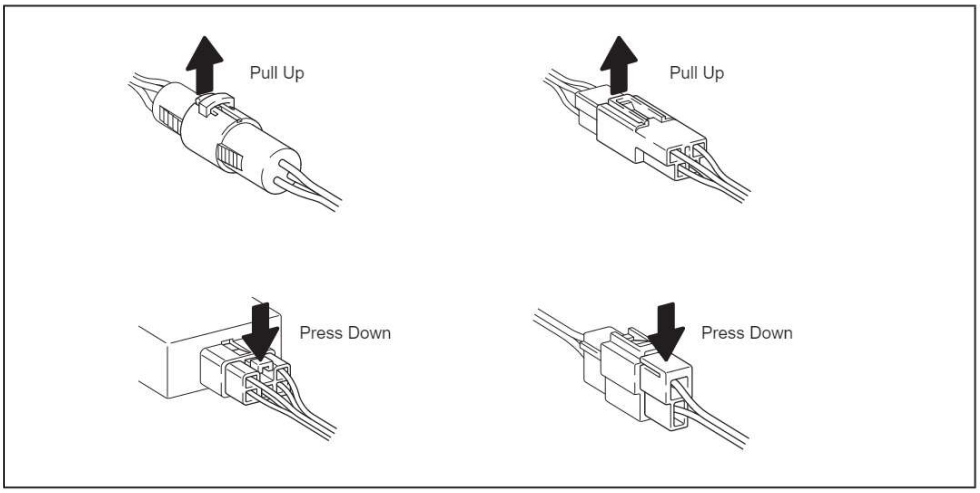
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

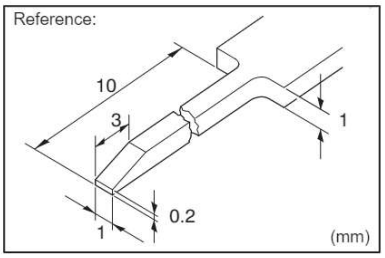
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

DISCONNECTION OF MALE AND FEMALE CONNECTORS

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

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



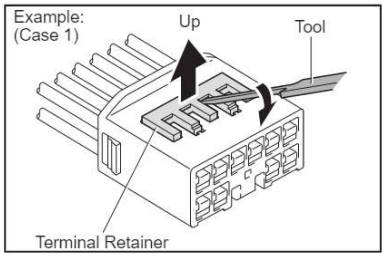


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

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

2. DISCONNECT CONNECTOR

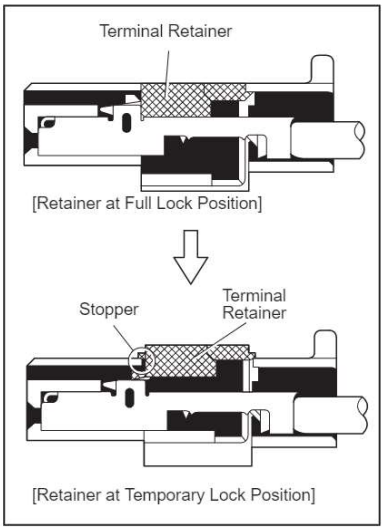


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

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

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

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

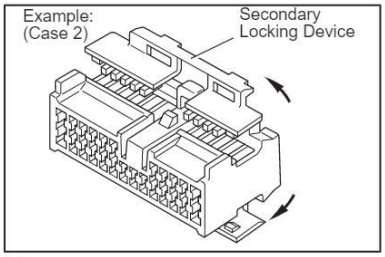


[A] For Non–Waterproof Type Connector

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

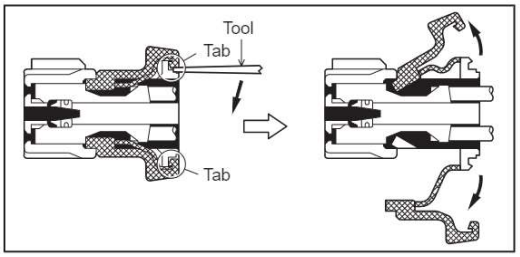
"Case 1"

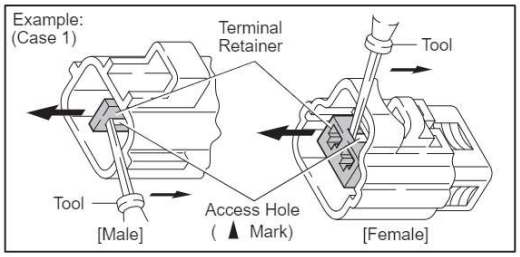
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.



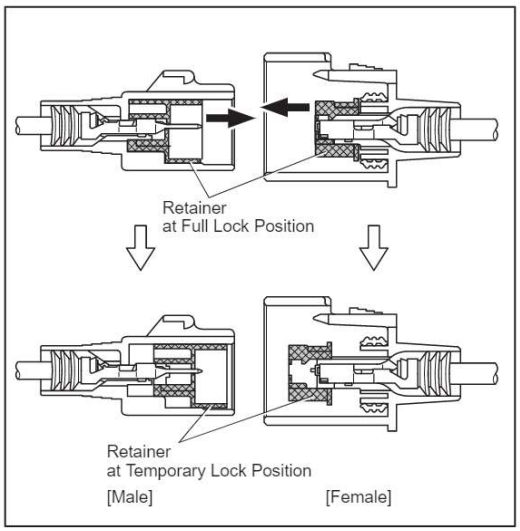


[B] For Waterproof Type Connector

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

Example:

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

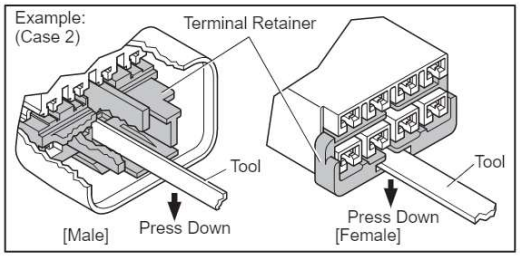


"Case 1"

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

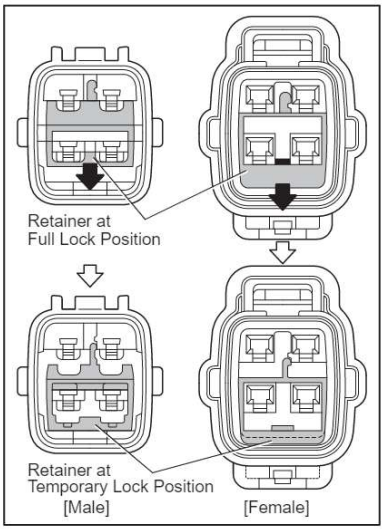
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

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

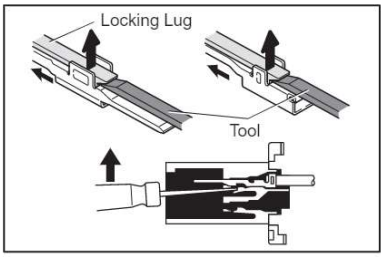


"Case 2"

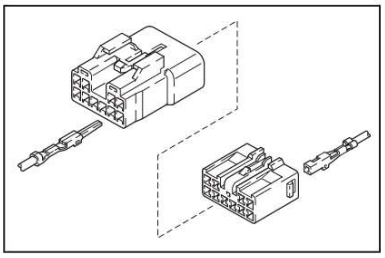
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



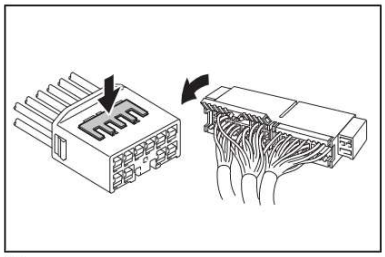
(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

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



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

5. CONNECT CONNECTOR

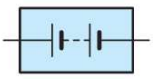
ABBREVIATIONS

The following abbreviations are used in this manual.

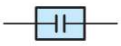
A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
ACIS	=	Acoustic Control Induction System
ACM	=	Active Control Engine Mount
CAN	=	Controller Area Network
EC	=	Electrochromic
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
ETCS–i	=	Electronic Throttle Control System–intelligent
FL	=	Fusible Link
IC	=	Integrated Circuit
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left–Hand
M/T	=	Manual Transaxle
R/B	=	Relay Block
RH	=	Right–Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
VVT	=	Variable Valve Timing
VVT–i	=	Variable Valve Timing–intelligent
w/	=	With
w/o	=	Without

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

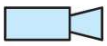
E GLOSSARY OF TERMS AND SYMBOLS



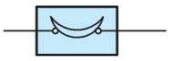
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



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



CIGARETTE LIGHTER
An electric resistance heating element.



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



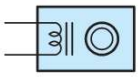
DIODE
A semiconductor which allows current flow in only one direction.



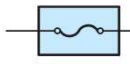
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



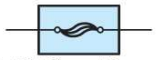
PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.



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



(for Medium Current Fuse)



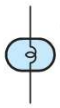
(for High Current Fuse or Fusible Link)

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

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



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

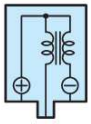


1. **SINGLE FILAMENT**
2. **DOUBLE FILAMENT**

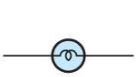
HEADLIGHTS
Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament



HORN
An electric device which sounds a loud audible signal.



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



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



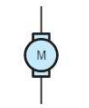
LED (LIGHT EMITTING DIODE)
Upon current flow, these diodes emit light without producing the heat of a comparable light.



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

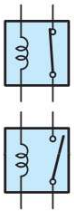


METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.



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

RELAY

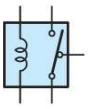


1. NORMALLY CLOSED

2. NORMALLY OPEN

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

RELAY, DOUBLE THROW



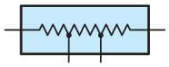
A relay which passes current through one set of contacts or the other.

RESISTOR



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

RESISTOR, TAPPED



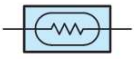
A resistor which supplies two or more different non adjustable resistance values.

RESISTOR, VARIABLE or RHEOSTAT



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

SENSOR (Thermistor)



A resistor which varies its resistance with temperature.

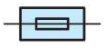
SENSOR, SPEED



(Reed Switch Type)

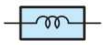
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

SHORT PIN



Used to provide an unbroken connection within a junction block.

SOLENOID



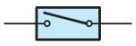
An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

SPEAKER

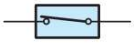


An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



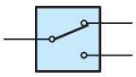
1. NORMALLY OPEN



2. NORMALLY CLOSED

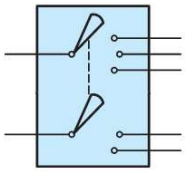
Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

SWITCH, DOUBLE THROW



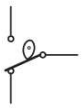
A switch which continuously passes current through one set of contacts or the other.

SWITCH, IGNITION



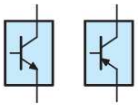
A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.

SWITCH, WIPER PARK



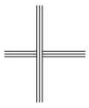
Automatically returns wipers to the stop position when the wiper switch is turned off.

TRANSISTOR

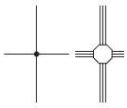


A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".

WIRES



(1) NOT CONNECTED

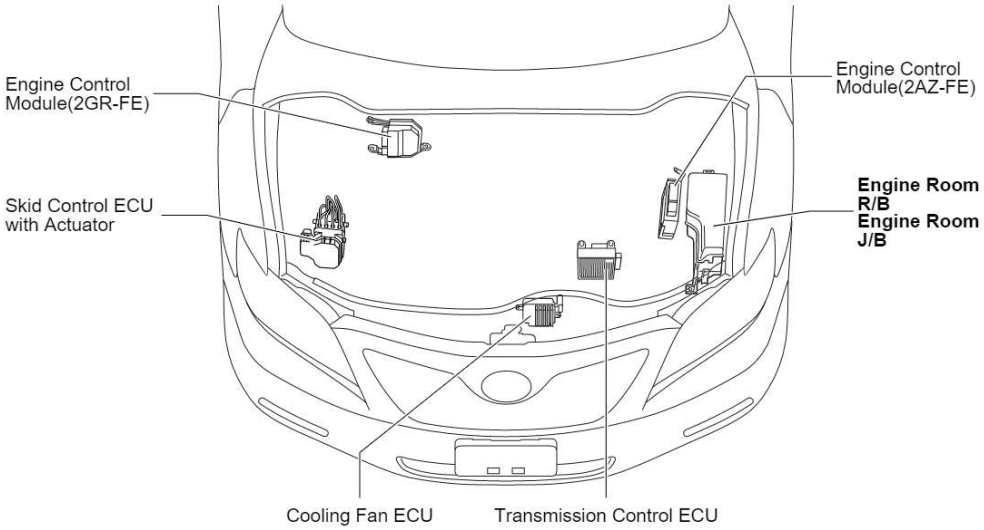


(2) SPLICED

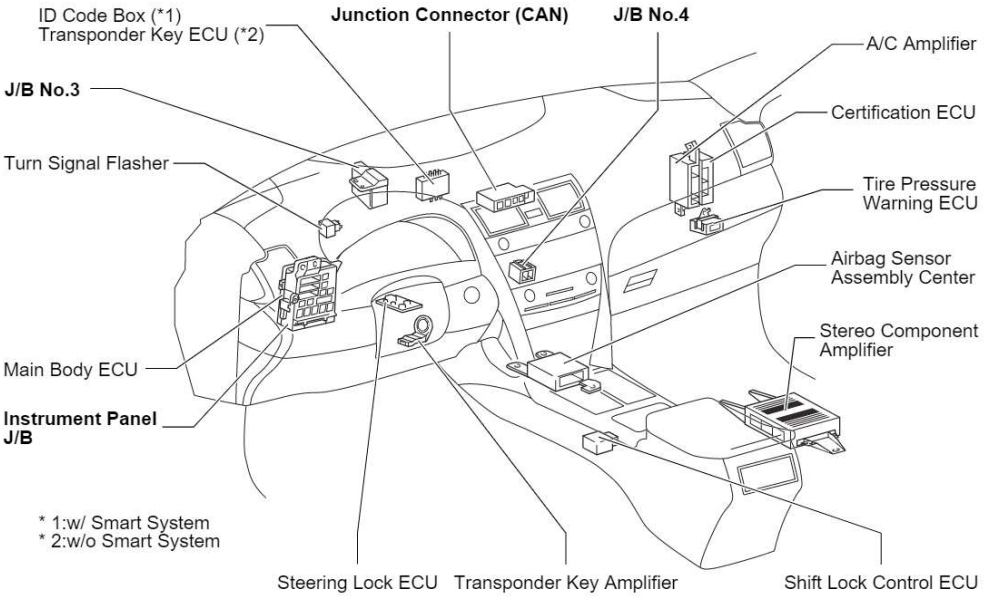
Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (◯) mark at the junction are spliced (joined) connections.

F RELAY LOCATIONS

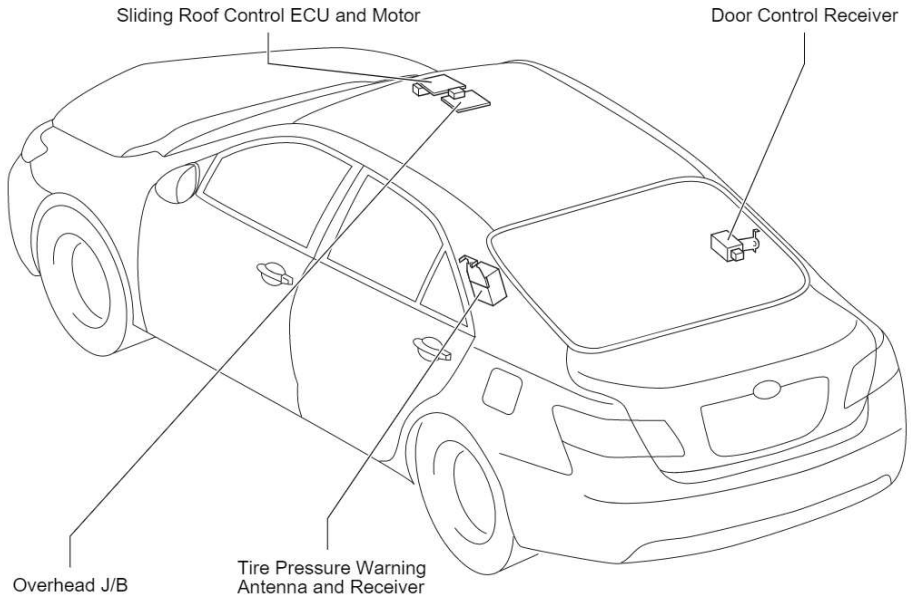
[Engine Compartment]



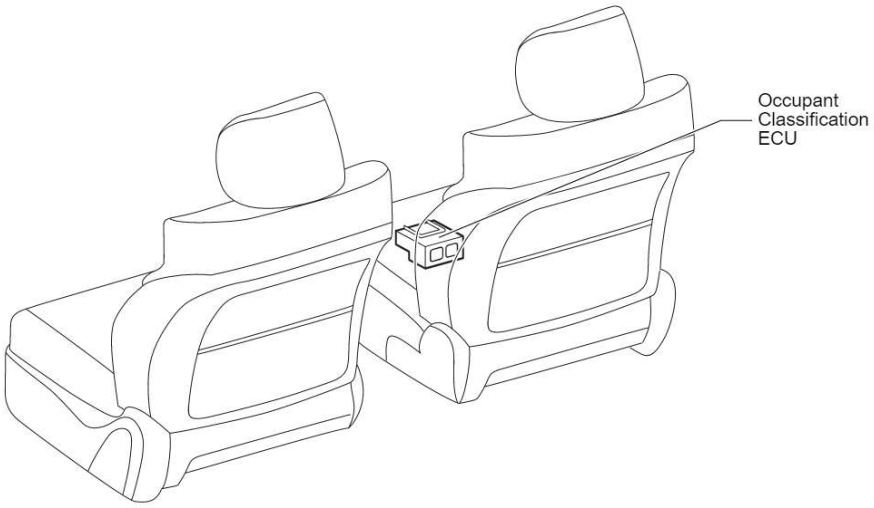
[Instrument Panel]



[Body]

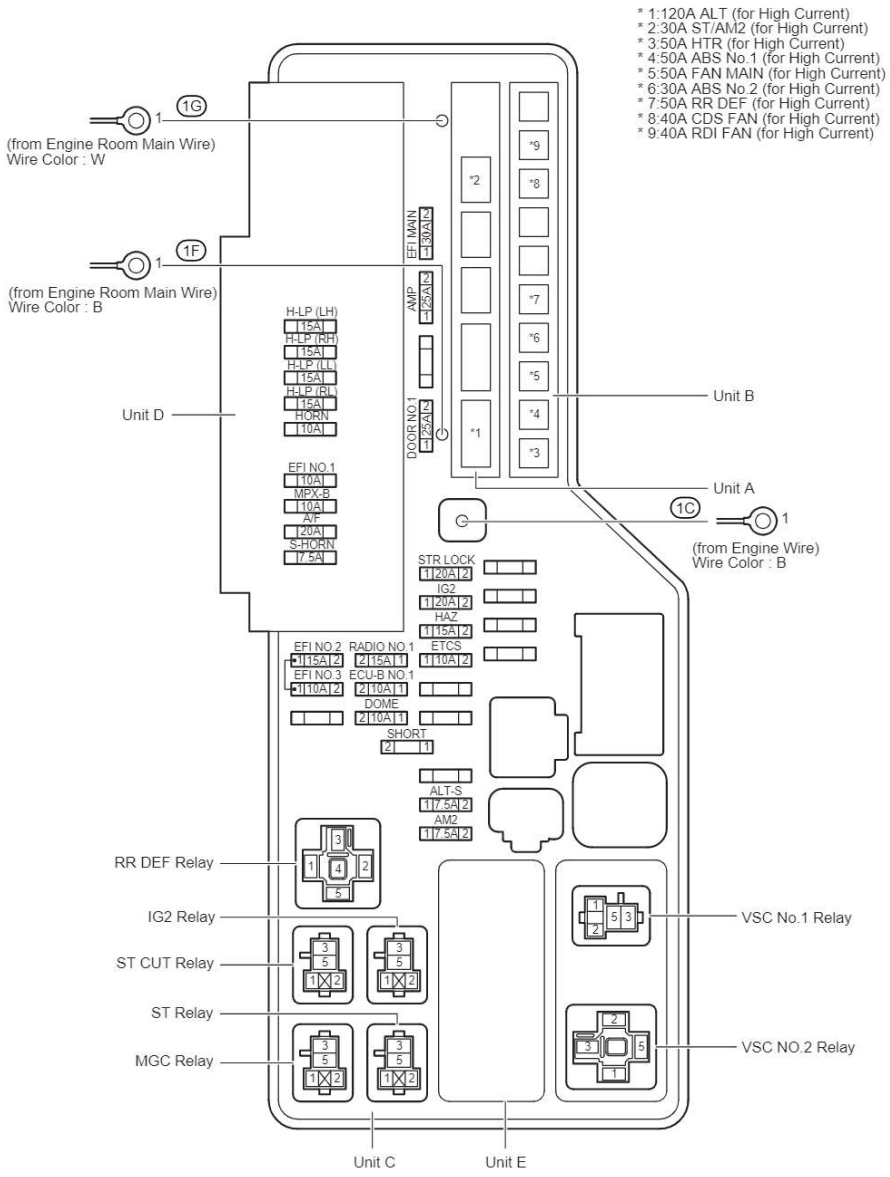

Sliding Roof Control ECU and Motor
Door Control Receiver
Overhead J/B
Tire Pressure Warning
Antenna and Receiver

[Seat]

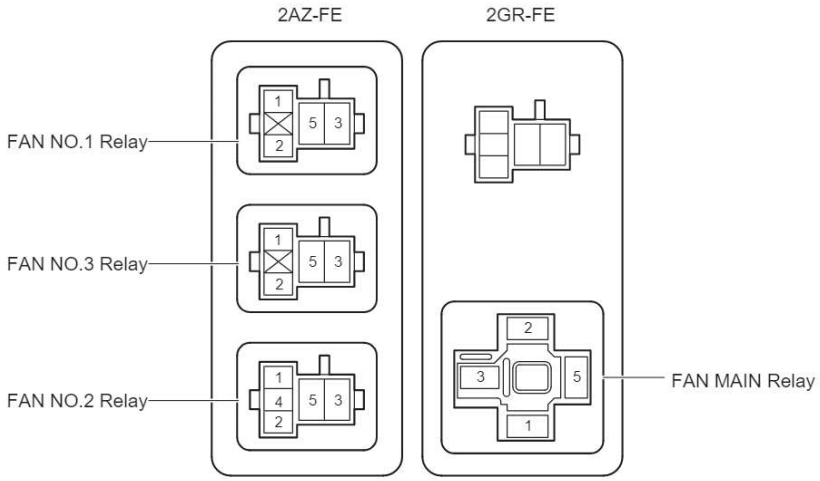

Occupant
Classification
ECU

F RELAY LOCATIONS

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



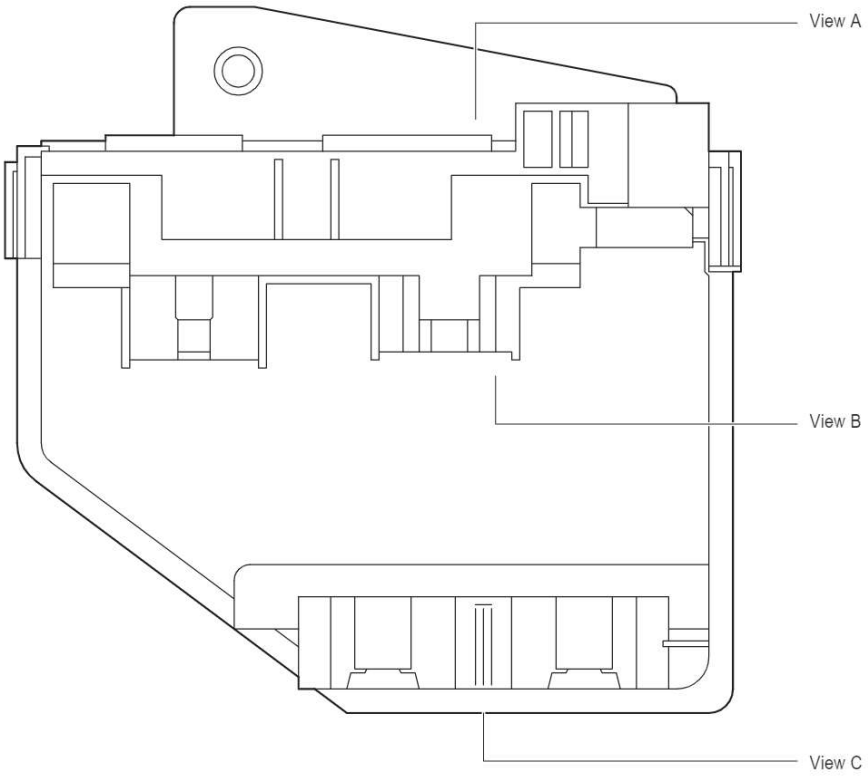
Unit E

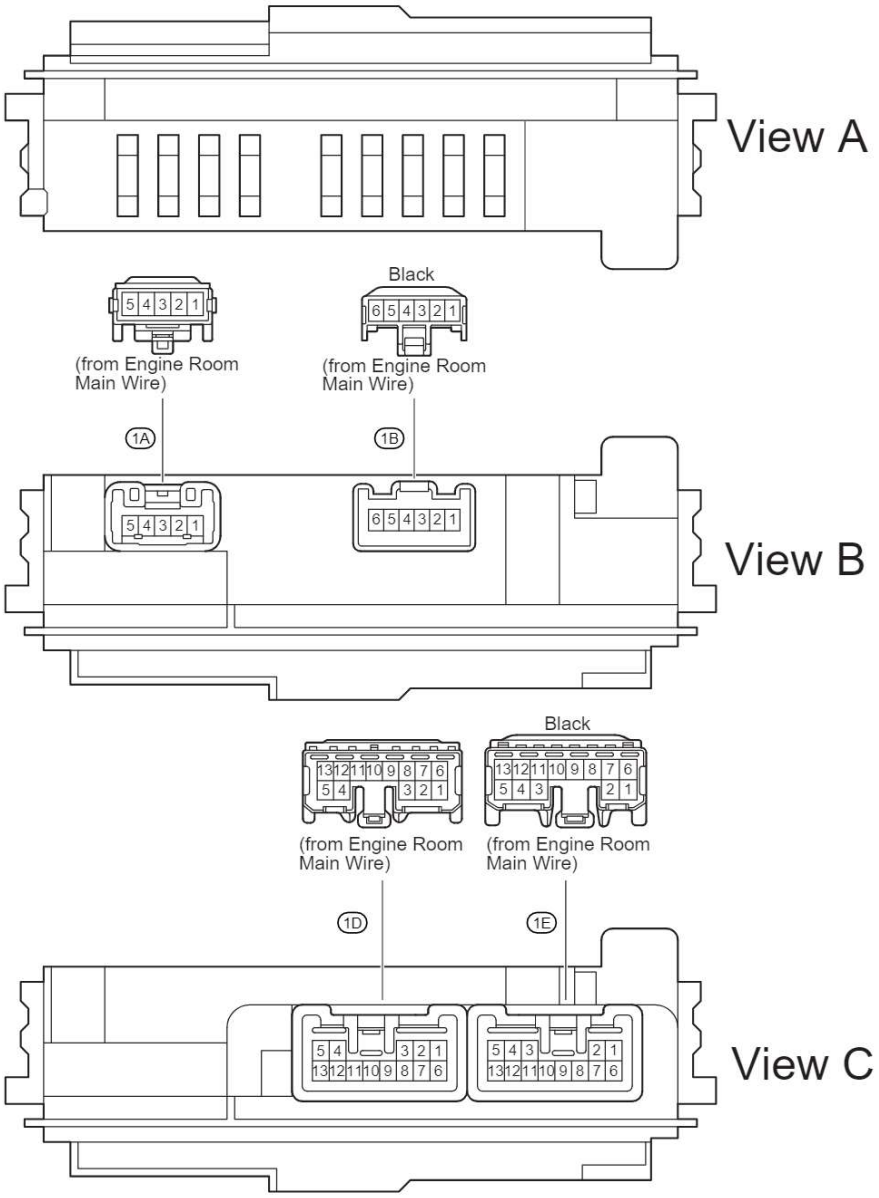

2AZ-FE
2GR-FE
FAN NO.1 Relay
FAN NO.3 Relay
FAN NO.2 Relay
FAN MAIN Relay
1
2
3
4
5

F RELAY LOCATIONS

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

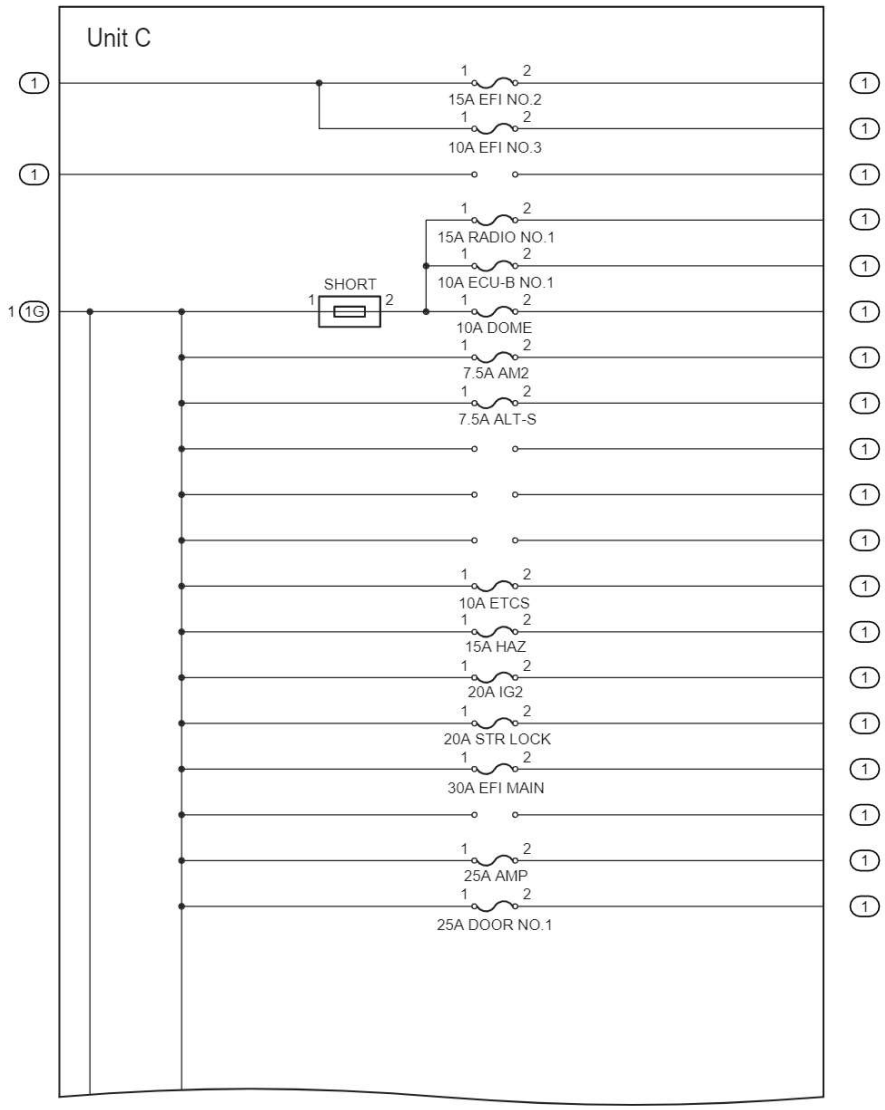
Unit D



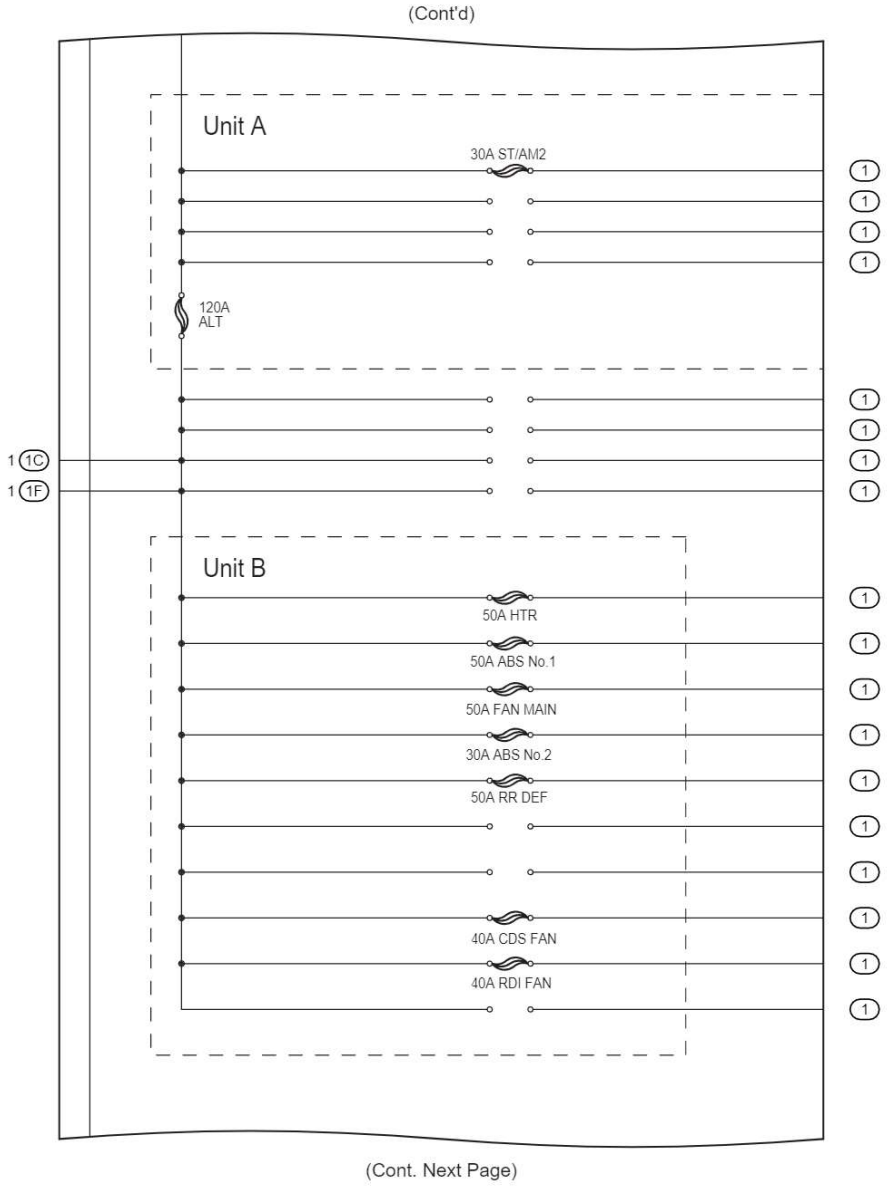

View A
Black
5 4 3 2 1
6 5 4 3 2 1
(from Engine Room Main Wire)
(from Engine Room Main Wire)
1A
1B
5 4 3 2 1
6 5 4 3 2 1
View B
Black
13 12 11 10 9 8 7 6
5 4
3 2 1
13 12 11 10 9 8 7 6
5 4 3
2 1
(from Engine Room Main Wire)
(from Engine Room Main Wire)
1D
1E
5 4
3 2 1
13 12 11 10 9 8 7 6
5 4 3
2 1
13 12 11 10 9 8 7 6
View C

F RELAY LOCATIONS

[Engine Room R/B and Engine Room J/B Inner Circuit]

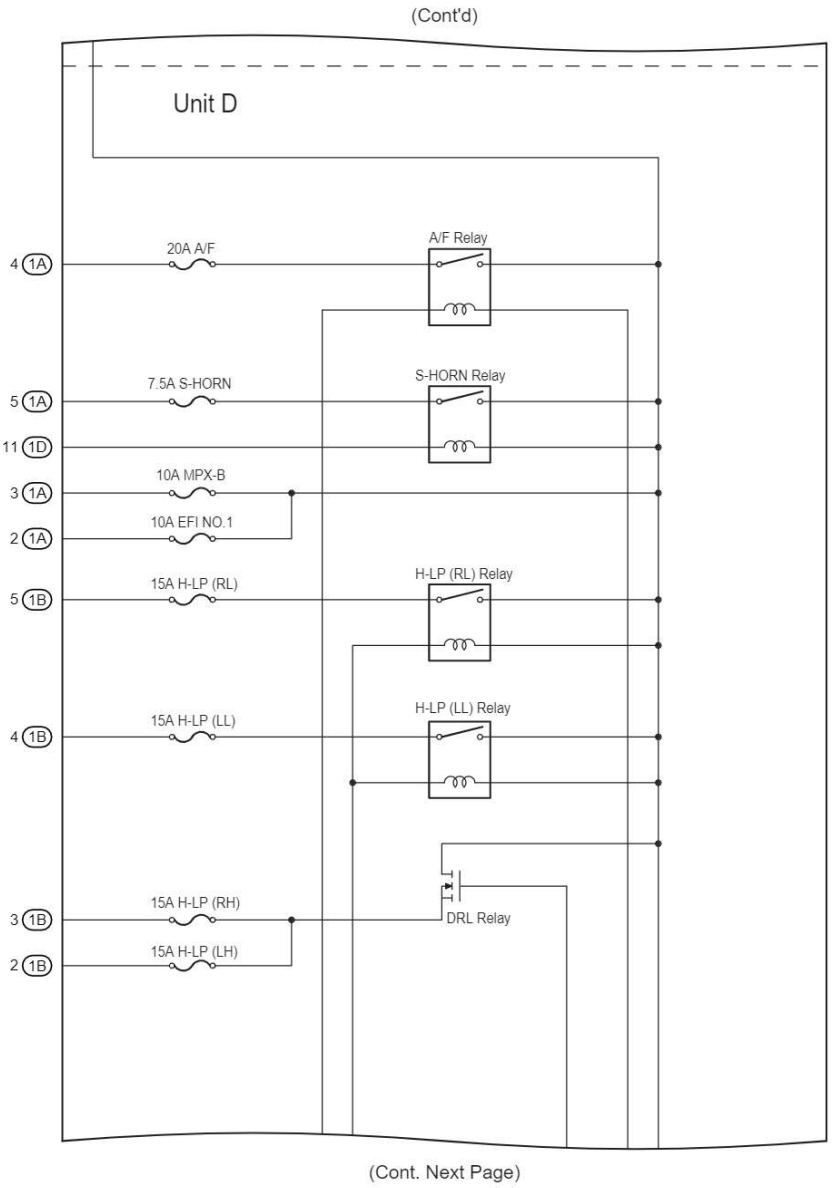


(Cont. Next Page)

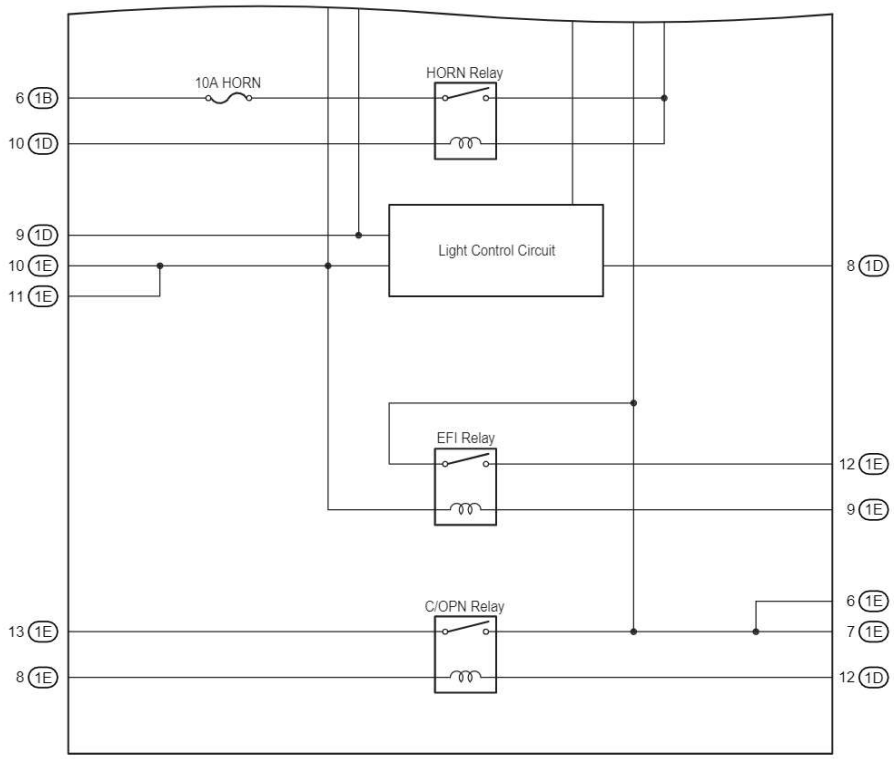

(Cont'd)
Unit A
30A ST/AM2
120A
ALT
1 1C
1 1F
Unit B
50A HTR
50A ABS No.1
50A FAN MAIN
30A ABS No.2
50A RR DEF
40A CDS FAN
40A RDI FAN
(Cont. Next Page)

F RELAY LOCATIONS

[Engine Room R/B and Engine Room J/B Inner Circuit]

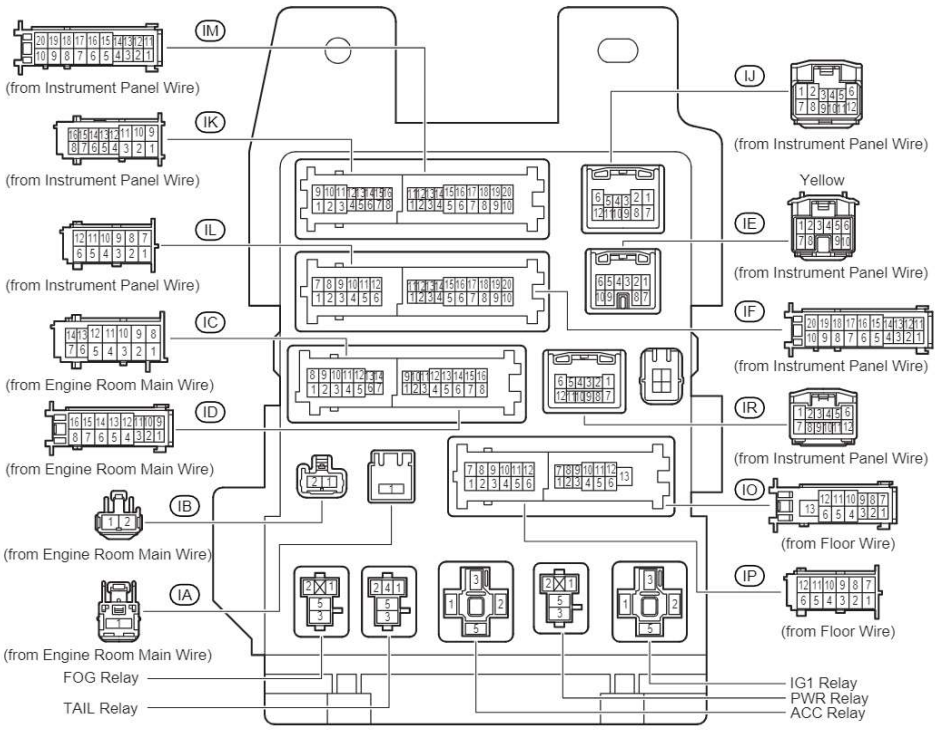


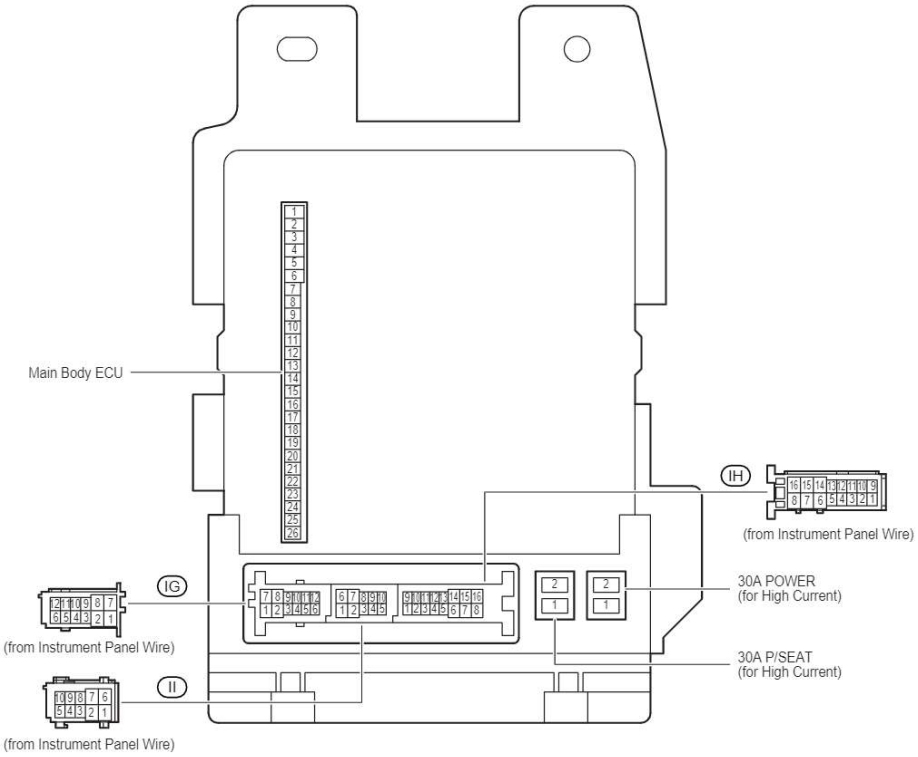
(Cont'd)


10A HORN
HORN Relay
6 1B
10 1D
9 1D
10 1E
11 1E
Light Control Circuit
8 1D
EFI Relay
12 1E
9 1E
C/OPN Relay
6 1E
13 1E
7 1E
8 1E
12 1D

F RELAY LOCATIONS

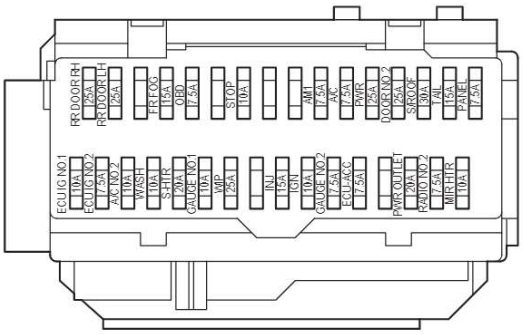
: Instrument Panel J/B	Cowl Side Left (See Page 20)



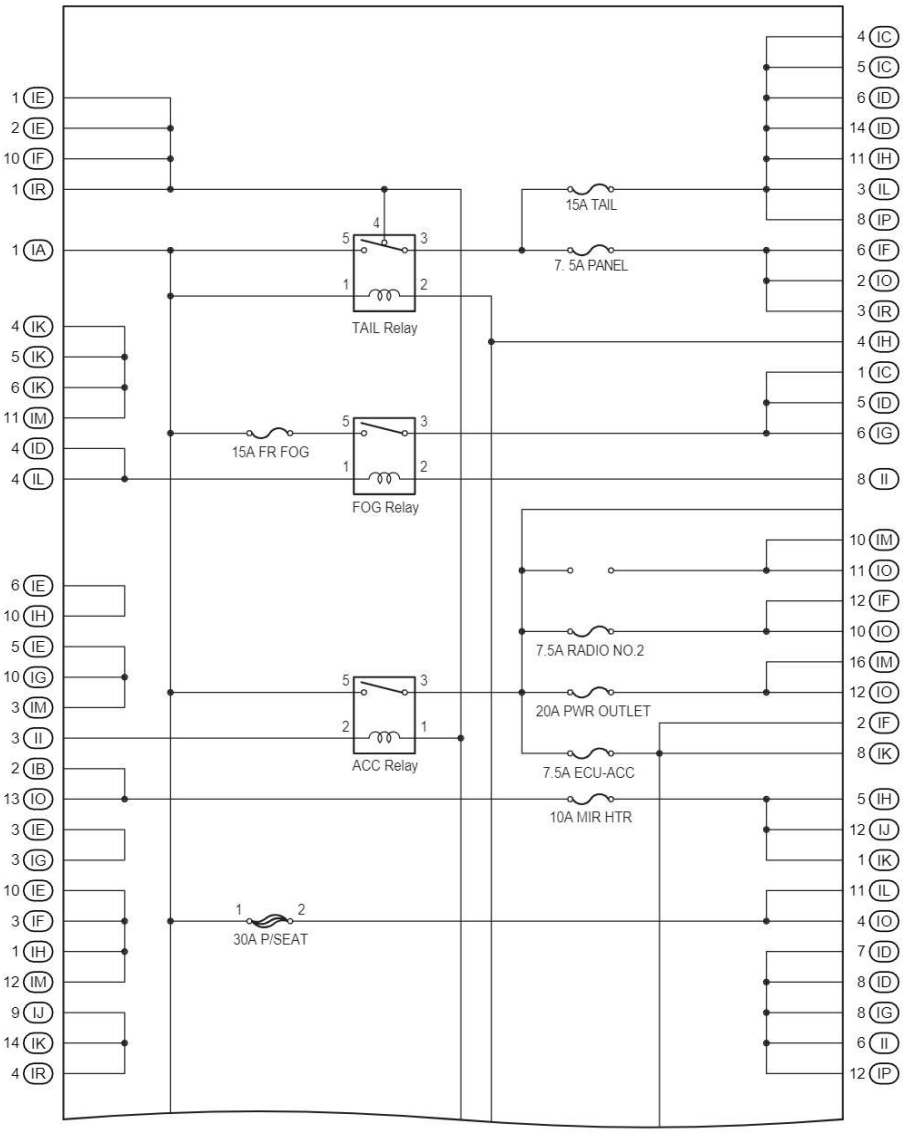

Main Body ECU
IH
(from Instrument Panel Wire)
IG
(from Instrument Panel Wire)
30A POWER
(for High Current)
30A P/SEAT
(for High Current)
II
(from Instrument Panel Wire)

F RELAY LOCATIONS

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



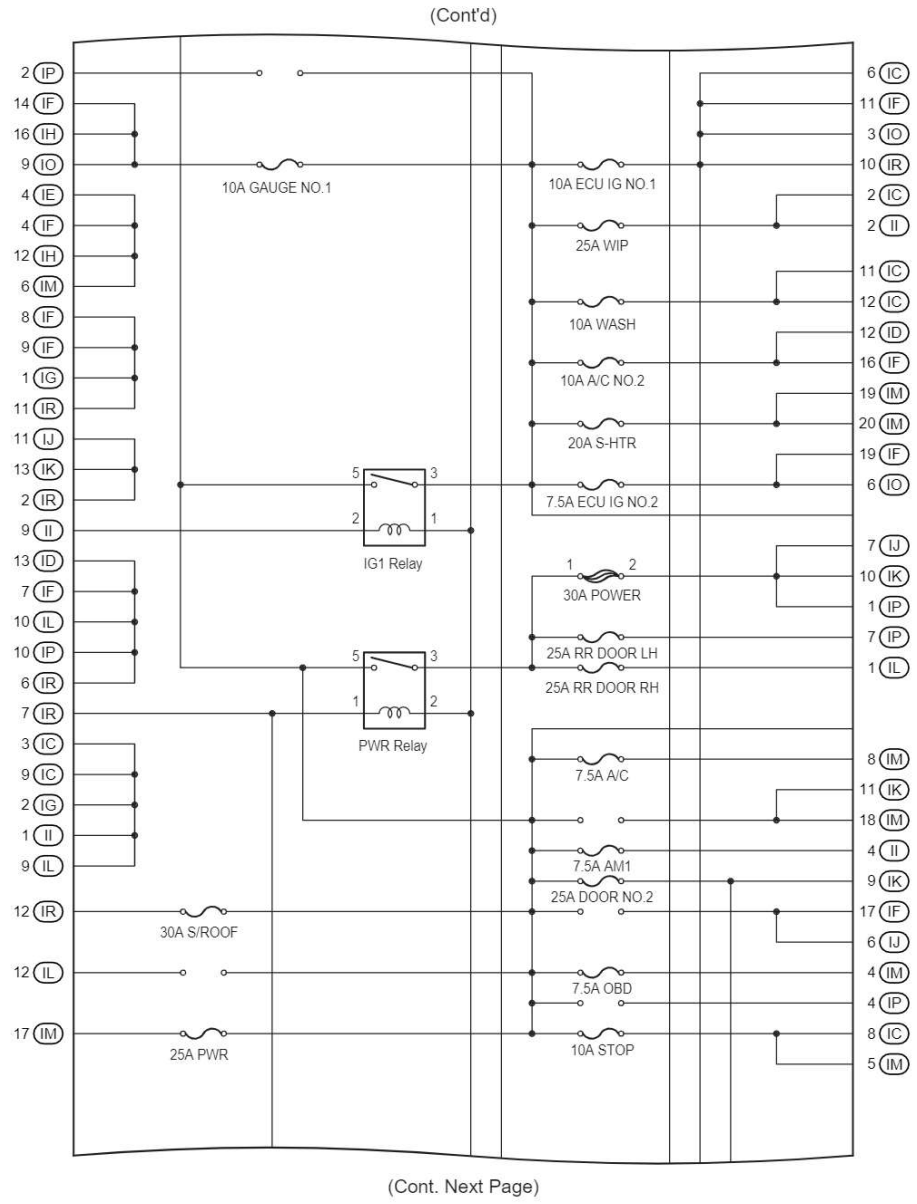
[Instrument Panel J/B Inner Circuit]



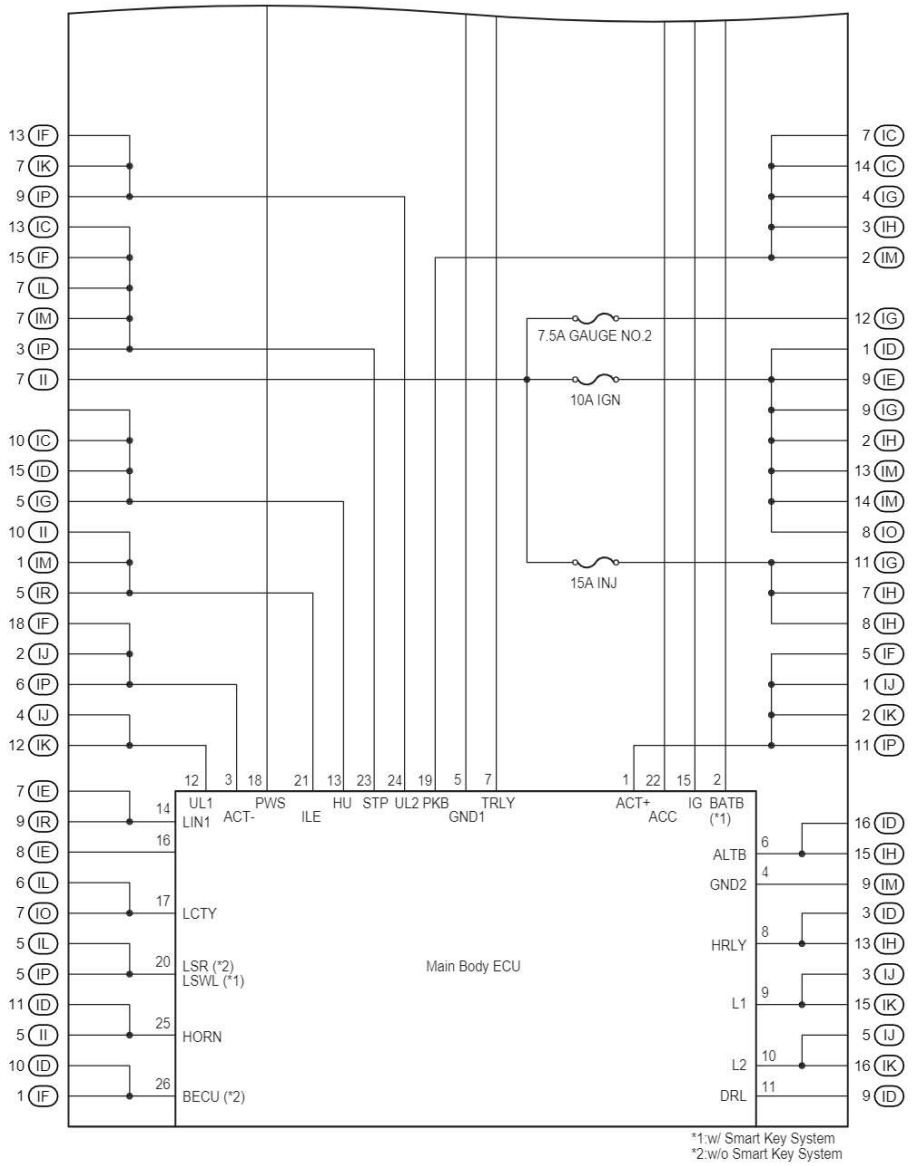
(Cont. Next Page)

F RELAY LOCATIONS

[Instrument Panel J/B Inner Circuit]

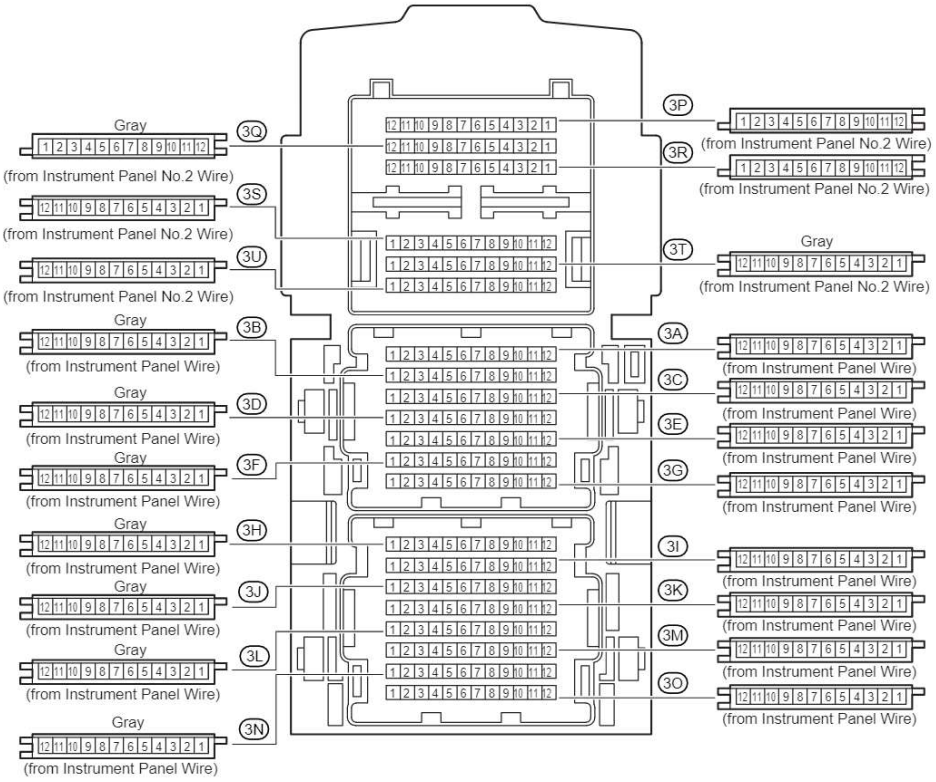


(Cont'd)


13 IF
7 IK
9 IP
13 IC
15 IF
7 IL
7 IM
3 IP
7 II
10 IC
15 ID
5 IG
10 II
1 IM
5 IR
18 IF
2 IJ
6 IP
4 IJ
12 IK
7 IE
9 IR
8 IE
6 IL
7 IO
5 IL
5 IP
11 ID
5 II
10 ID
1 IF
7 IC
14 IC
4 IG
3 IH
2 IM
12 IG
1 ID
9 IE
9 IG
2 IH
13 IM
14 IM
8 IO
11 IG
7 IH
8 IH
5 IF
1 IJ
2 IK
11 IP
16 ID
15 IH
9 IM
3 ID
13 IH
3 IJ
15 IK
5 IJ
16 IK
9 ID
7.5A GAUGE NO.2
10A IGN
15A INJ
12 3 18 21 13 23 24 19 5 7
UL1
LIN1
ACT-
PWS
ILE
HU
STP
UL2
PKB
GND1
TRLY
14
16
17
LCTY
20
LSR (*2)
LSWL (*1)
25
HORN
26
BECU (*2)
Main Body ECU
1 22 15 2
ACT+
ACC
IG
BATB
(*1)
6
ALTB
4
GND2
8
HRLY
9
L1
10
L2
11
DRL
*1:w/ Smart Key System
*2:w/o Smart Key System

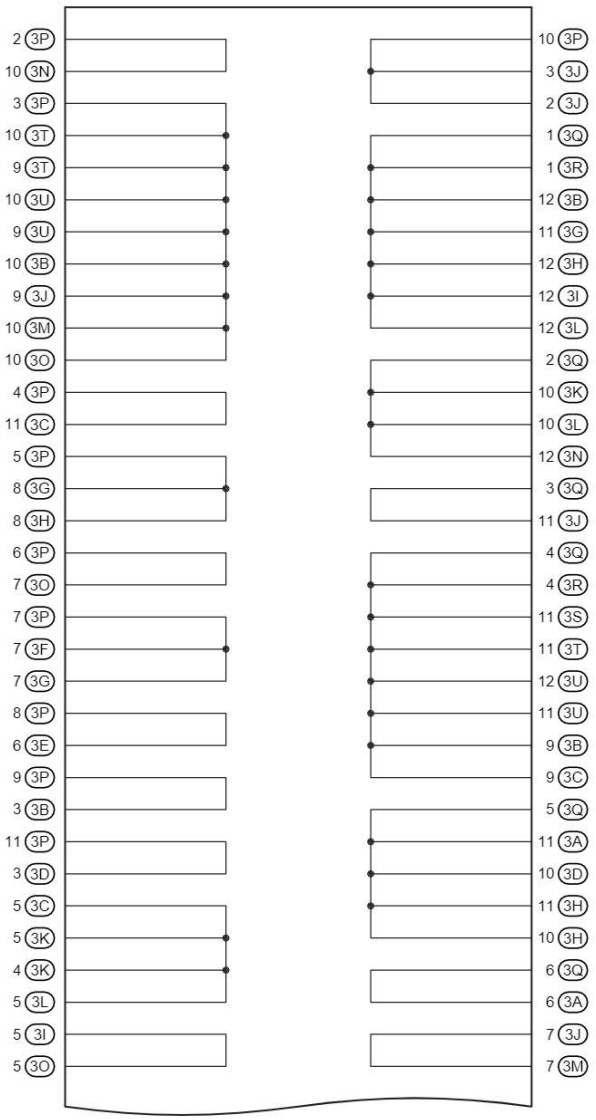
F RELAY LOCATIONS

: J/B No.3	Behind the Combination Meter (See Page 20)



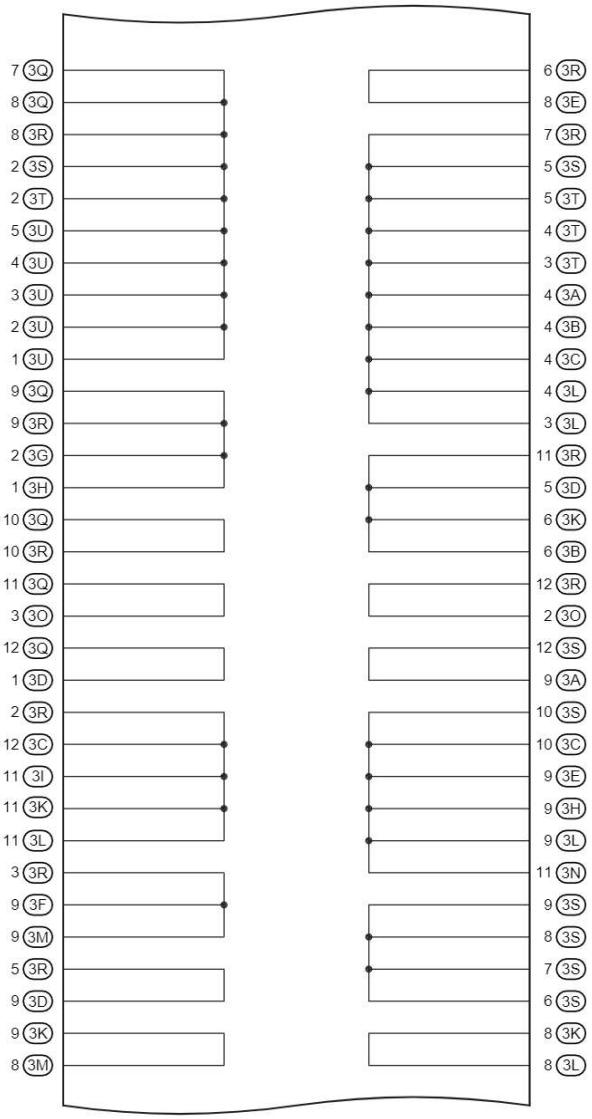
F RELAY LOCATIONS

[J/B No.3 Inner Circuit]



(Cont. Next Page)

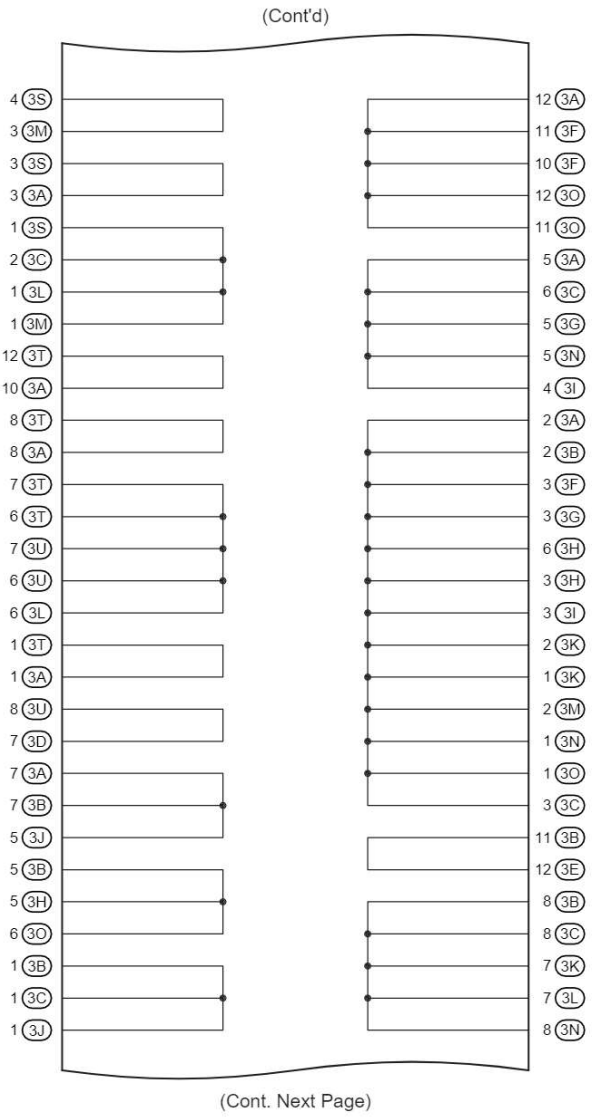
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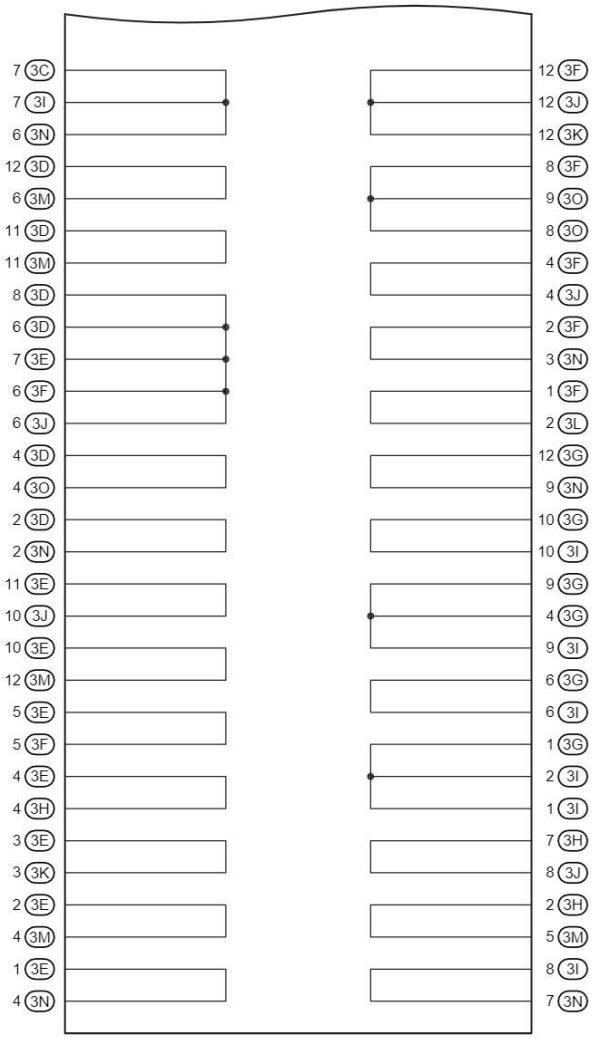
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F RELAY LOCATIONS

[J/B No.3 Inner Circuit]

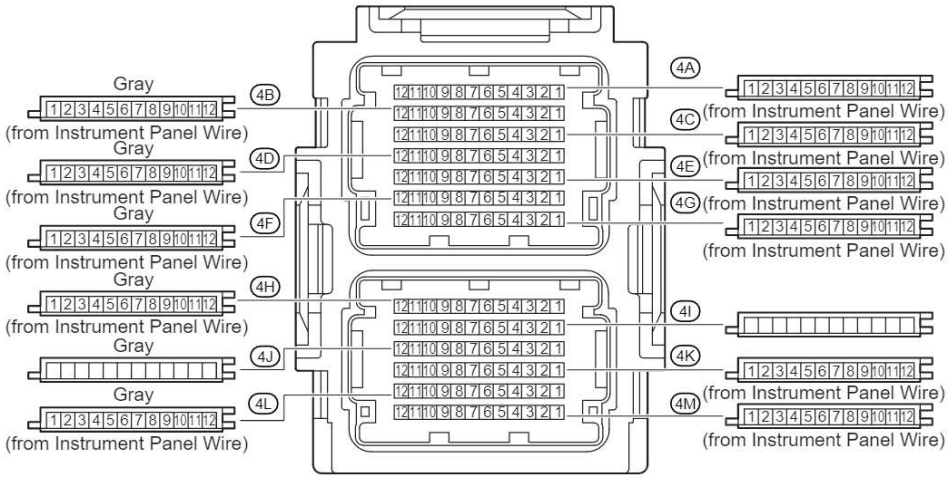


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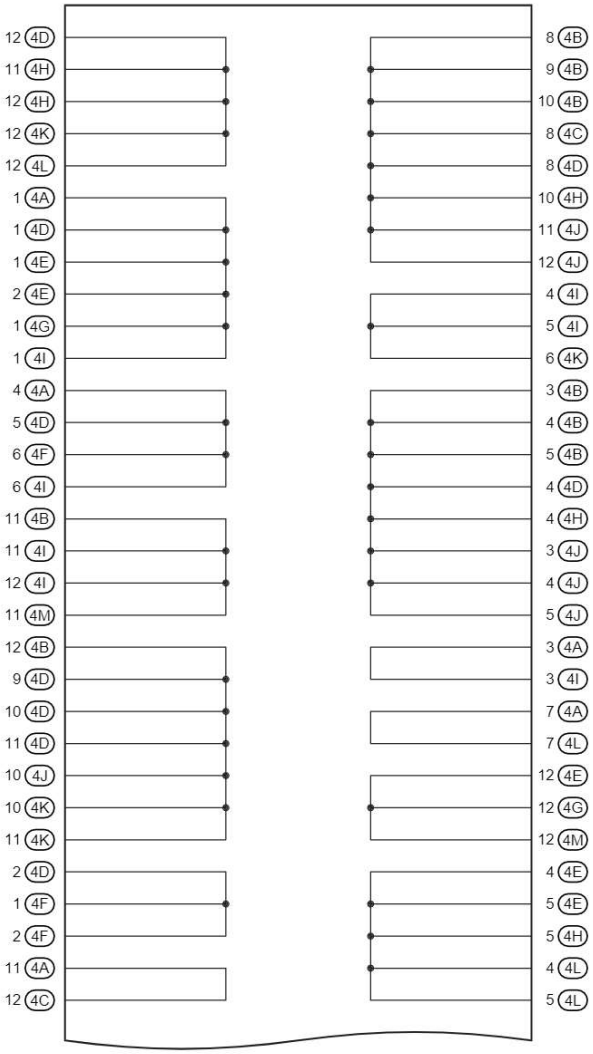

7 3C
7 3I
6 3N
12 3D
6 3M
11 3D
11 3M
8 3D
6 3D
7 3E
6 3F
6 3J
4 3D
4 3O
2 3D
2 3N
11 3E
10 3J
10 3E
12 3M
5 3E
5 3F
4 3E
4 3H
3 3E
3 3K
2 3E
4 3M
1 3E
4 3N
12 3F
12 3J
12 3K
8 3F
9 3O
8 3O
4 3F
4 3J
2 3F
3 3N
1 3F
2 3L
12 3G
9 3N
10 3G
10 3I
9 3G
4 3G
9 3I
6 3G
6 3I
1 3G
2 3I
1 3I
7 3H
8 3J
2 3H
5 3M
8 3I
7 3N

F RELAY LOCATIONS

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

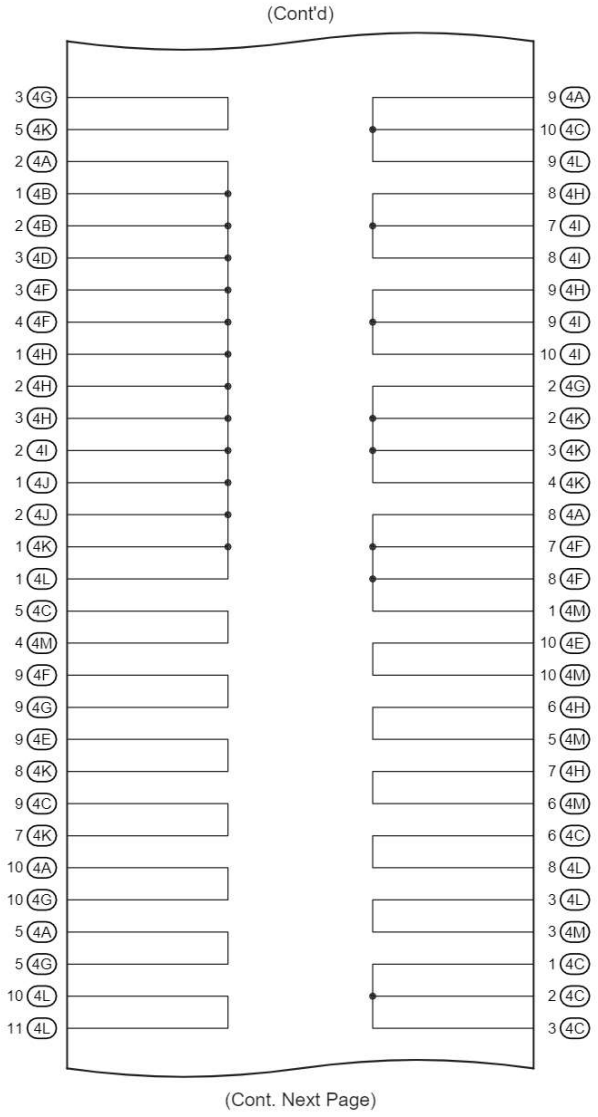


[J/B No.4 Inner Circuit]

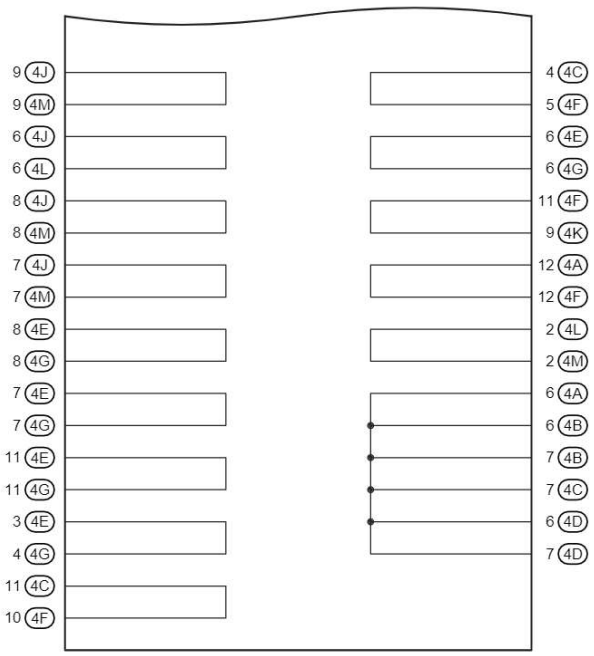


(Cont. Next Page)

[J/B No.4 Inner Circuit]

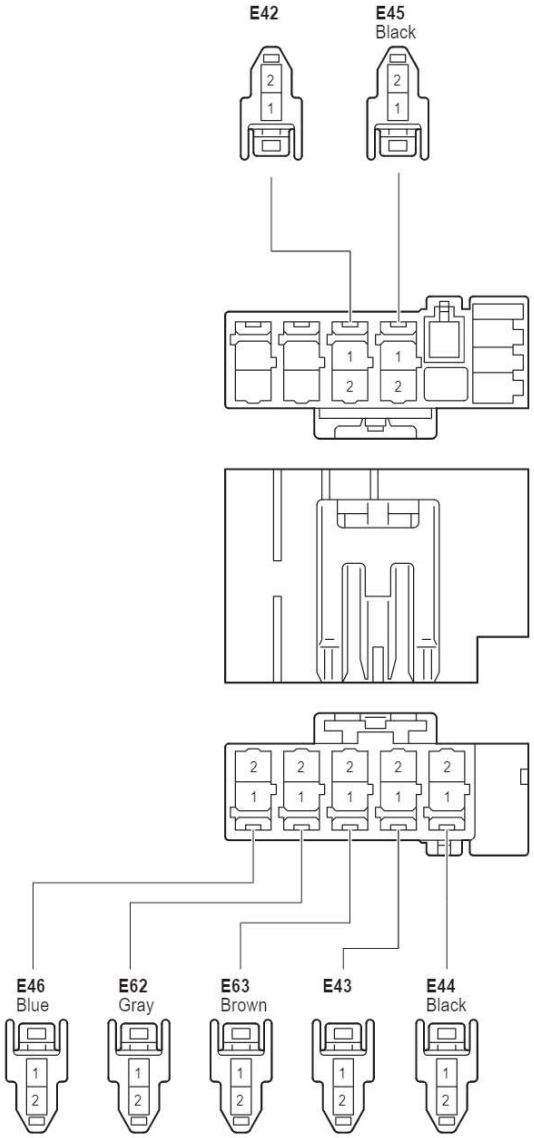


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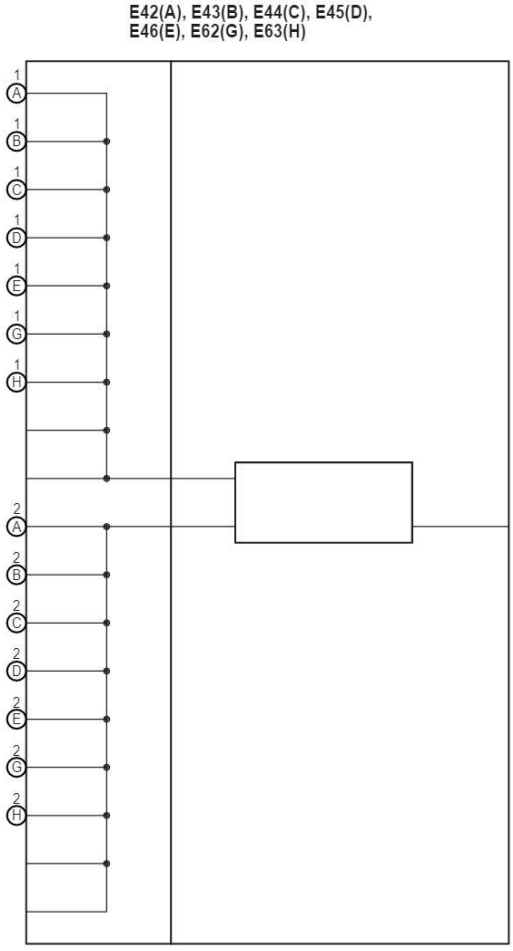

9 4J
9 4M
6 4J
6 4L
8 4J
8 4M
7 4J
7 4M
8 4E
8 4G
7 4E
7 4G
11 4E
11 4G
3 4E
4 4G
11 4C
10 4F
4 4C
5 4F
6 4E
6 4G
11 4F
9 4K
12 4A
12 4F
2 4L
2 4M
6 4A
6 4B
7 4B
7 4C
6 4D
7 4D

F RELAY LOCATIONS

Junction Connector (CAN)	Instrument Panel Brace Center (See Page 20)

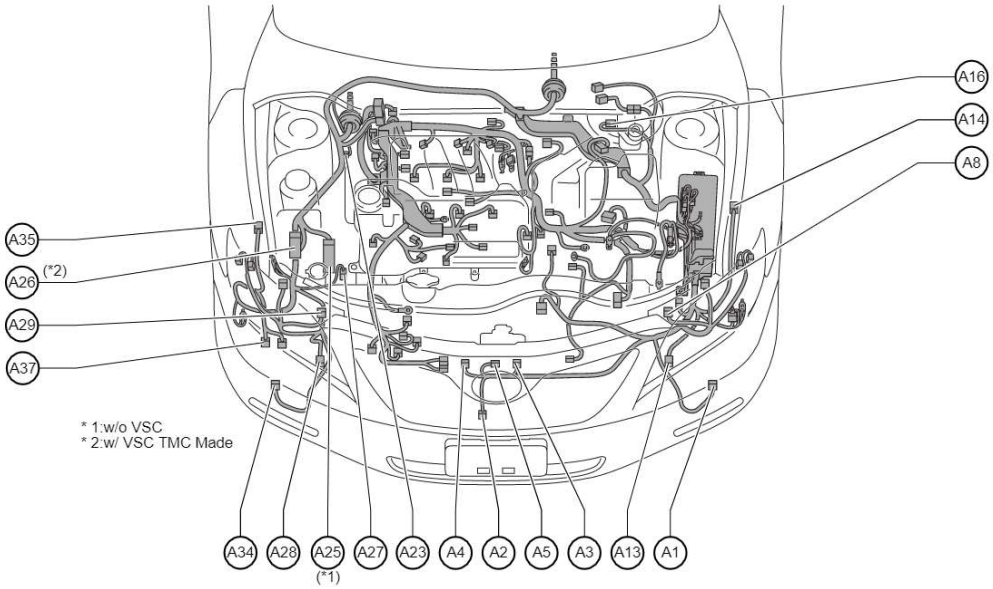


[Junction Connector (CAN) Inner Circuit]



Position of Parts in Engine Compartment

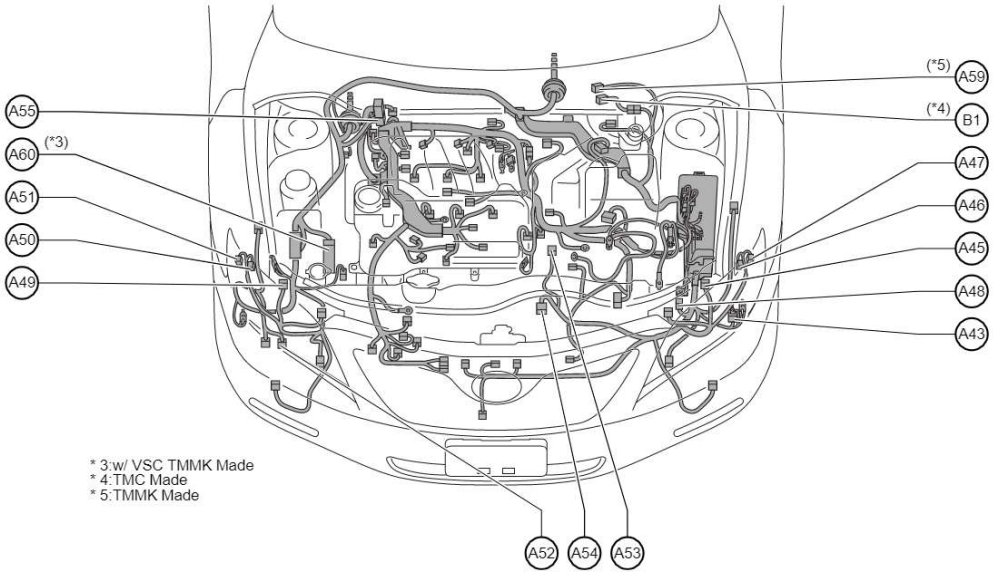
[2GR–FE]



A 1 Fog Lamp (Front LH)
A 2 Ambient Temp. Sensor
A 3 Horn (High)
A 4 Horn (Low)
A 5 Engine Hood Courtesy SW
A 8 Headlamp (LH High)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A25 Skid Control ECU with Actuator
A26 Skid Control ECU with Actuator
A27 A/C Pressure Sensor
A28 Airbag Sensor (Front RH)
A29 Headlamp (RH High)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A37 Windshield Washer Motor

Position of Parts in Engine Compartment

[2GR–FE]

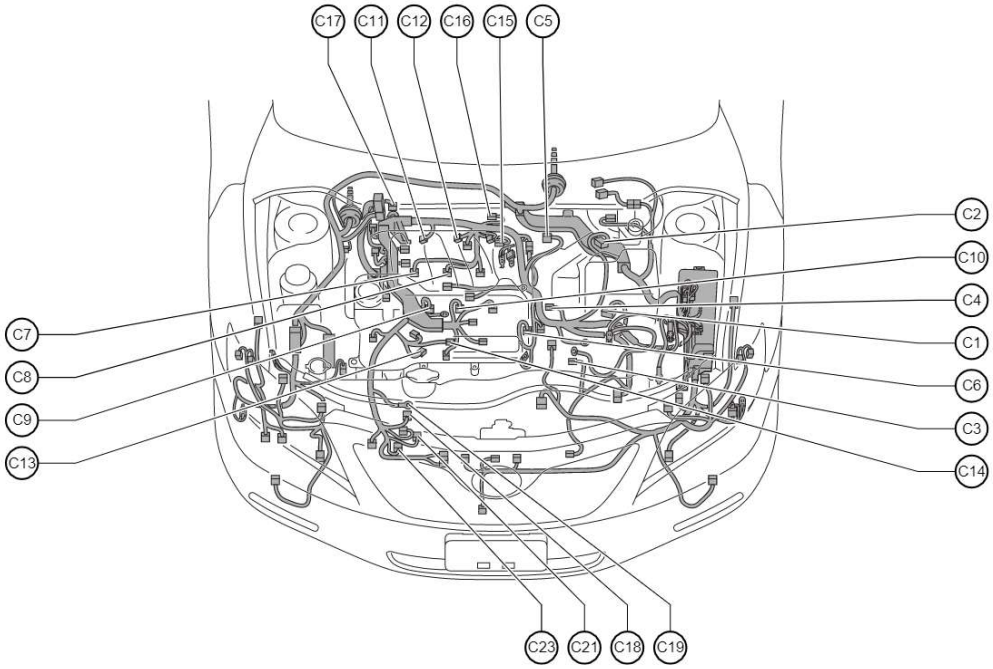


A43 Junction Connector
A45 Headlamp (LH Low)
A46 Turn Signal and Parking Lamp (Front LH)
A47 Side Marker Lamp (Front LH)
A48 Wireless Door Lock Buzzer
A49 Headlamp (RH Low)
A50 Turn Signal and Parking Lamp (Front RH)
A51 Side Marker Lamp (Front RH)
A52 Washer Level Warning SW
A53 VSV (Air Intake Control)
A54 Cooling Fan ECU
A55 Engine Control Module
A59 Windshield Wiper Motor
A60 Skid Control ECU with Actuator

B 1 Windshield Wiper Motor

Position of Parts in Engine Compartment

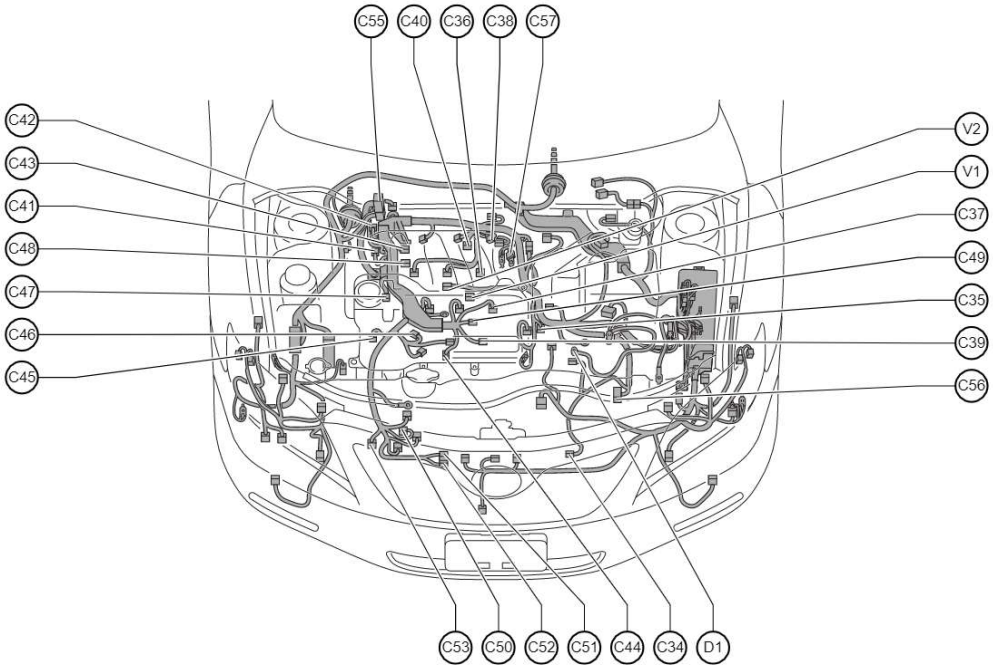
[2GR–FE]



C 1 Park/Neutral Position SW
C 2 Mass Air Flow Meter
C 3 Starter
C 4 Engine Coolant Temp. Sensor
C 5 Throttle Body Assembly
C 6 VSV (Purge)
C 7 Fuel Injector (No.1)
C 8 Fuel Injector (No.3)
C 9 Fuel Injector (No.2)
C10 Fuel Injector (No.4)
C11 Ignition Coil (No.1)
C12 Ignition Coil (No.3)
C13 Ignition Coil (No.2)
C14 Ignition Coil (No.4)
C15 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
C16 Noise Filter (Ignition RH)
C17 Power Steering Oil Pressure SW
C18 Generator
C19 Generator
C21 A/C Compressor
C23 Engine Oil Pressure SW

Position of Parts in Engine Compartment

[2GR–FE]



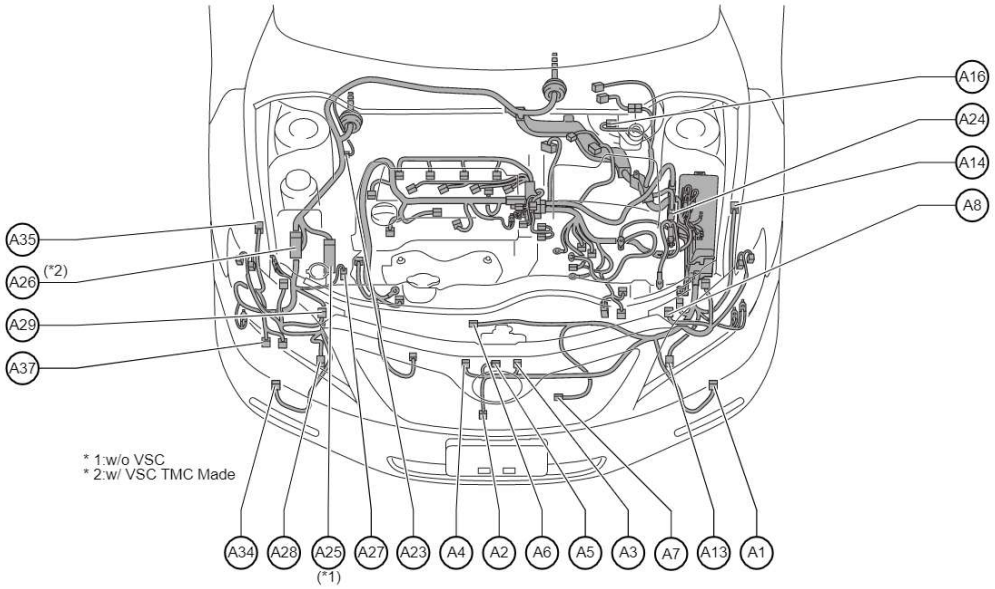
C34 VSV (ACM)
C35 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
C36 Fuel Injector (No.5)
C37 Fuel Injector (No.6)
C38 Ignition Coil (No.5)
C39 Ignition Coil (No.6)
C40 VVT Sensor (Bank 1 Exhaust Side)
C41 VVT Sensor (Bank 1 Intake Side)
C42 Camshaft Timing Oil Control Valve (RH Exhaust Side)
C43 Camshaft Timing Oil Control Valve (RH Intake Side)
C44 VVT Sensor (Bank 2 Exhaust Side)
C45 VVT Sensor (Bank 2 Intake Side)
C46 Camshaft Timing Oil Control Valve (LH Exhaust Side)
C47 Camshaft Timing Oil Control Valve (LH Intake Side)
C48 VSV (ACIS)
C49 Noise Filter (Ignition LH)
C50 Crankshaft Position Sensor
C51 Heated Oxygen Sensor (Bank 2 Sensor 2)
C52 Heated Oxygen Sensor (Bank 1 Sensor 2)
C53 A/C Compressor
C55 Engine Control Module
C56 Transmission Control ECU
C57 Junction Connector

D 1 Starter

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

Position of Parts in Engine Compartment

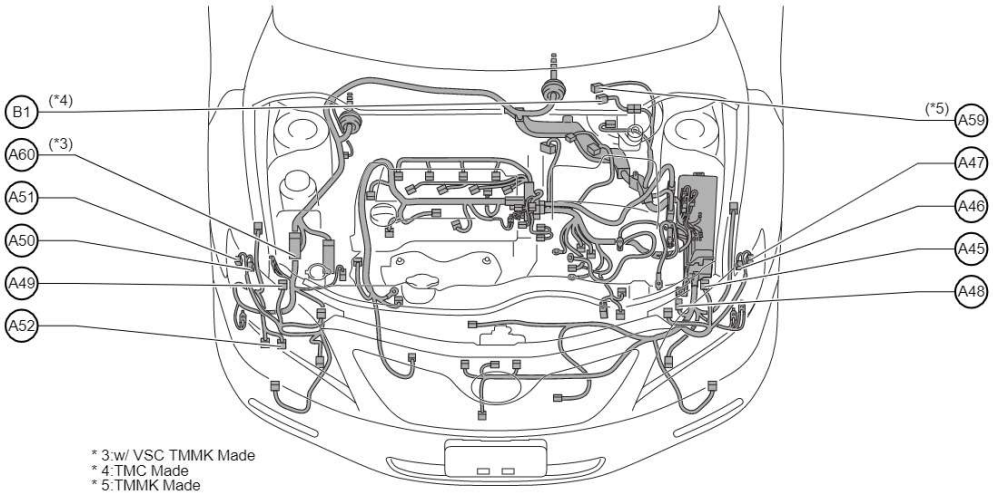
[2AZ–FE]



A 1 Fog Lamp (Front LH)
A 2 Ambient Temp. Sensor
A 3 Horn (High)
A 4 Horn (Low)
A 5 Engine Hood Courtesy SW
A 6 A/C Condenser Fan Motor
A 7 Radiator Fan Motor
A 8 Headlamp (LH High)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A24 Engine Control Module
A25 Skid Control ECU with Actuator
A26 Skid Control ECU with Actuator
A27 A/C Pressure Sensor
A28 Airbag Sensor (Front RH)
A29 Headlamp (RH High)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A37 Windshield Washer Motor

Position of Parts in Engine Compartment

[2AZ–FE]

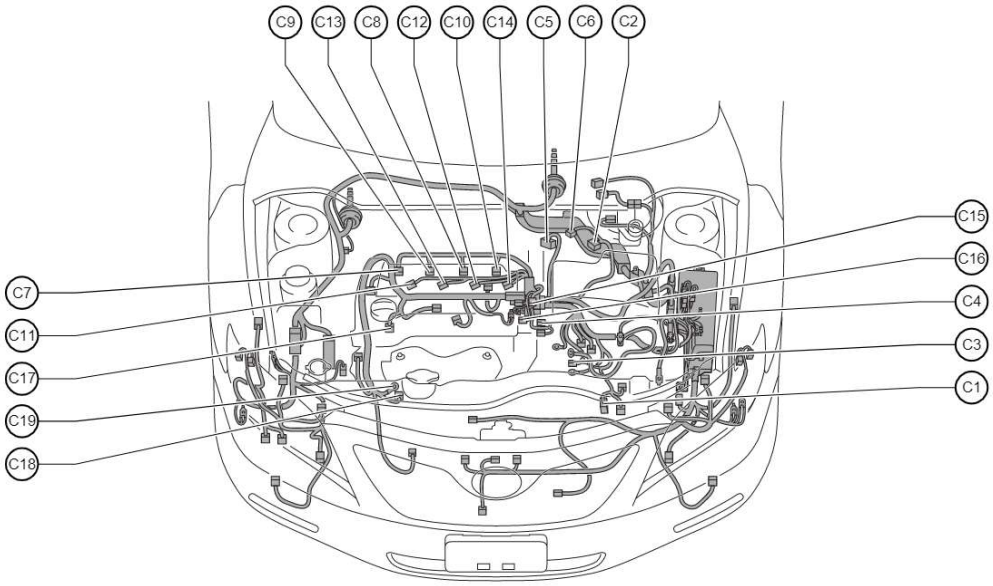


A45 Headlamp (LH Low)
A46 Turn Signal and Parking Lamp (Front LH)
A47 Side Marker Lamp (Front LH)
A48 Wireless Door Lock Buzzer
A49 Headlamp (RH Low)
A50 Turn Signal and Parking Lamp (Front RH)
A51 Side Marker Lamp (Front RH)
A52 Washer Level Warning SW
A59 Windshield Wiper Motor
A60 Skid Control ECU with Actuator

B 1 Windshield Wiper Motor

Position of Parts in Engine Compartment

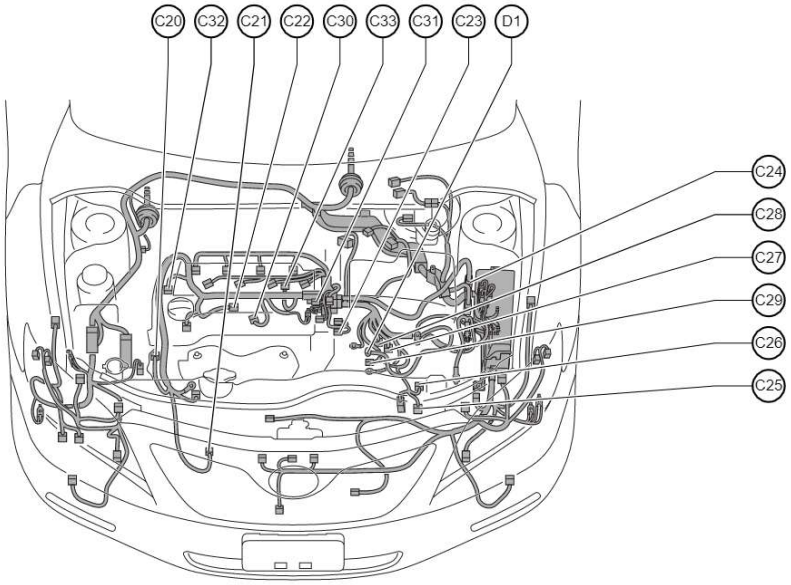
[2AZ–FE]



C 1 Park/Neutral Position SW
C 2 Mass Air Flow Meter
C 3 Starter
C 4 Engine Coolant Temp. Sensor
C 5 Throttle Body Assembly
C 6 VSV (Purge)
C 7 Fuel Injector (No.1)
C 8 Fuel Injector (No.3)
C 9 Fuel Injector (No.2)
C10 Fuel Injector (No.4)
C11 Ignition Coil (No.1)
C12 Ignition Coil (No.3)
C13 Ignition Coil (No.2)
C14 Ignition Coil (No.4)
C15 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
C16 Noise Filter (Ignition RH)
C17 Power Steering Oil Pressure SW
C18 Generator
C19 Generator

Position of Parts in Engine Compartment

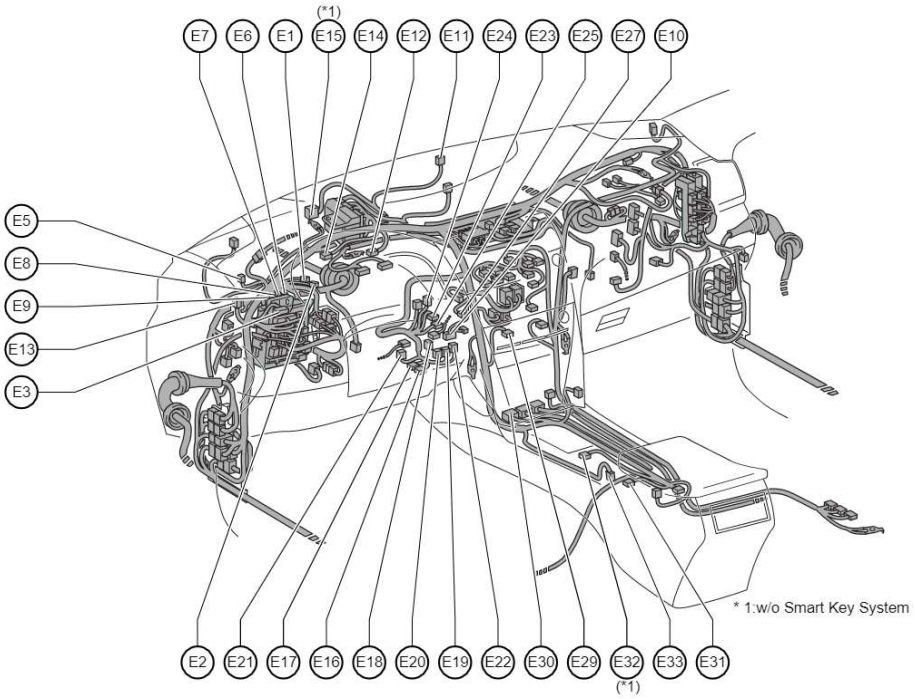
[2AZ–FE]



C20 Crankshaft Position Sensor
C21 A/C Compressor
C22 Heated Oxygen Sensor (Bank 1 Sensor 2)
C23 Engine Oil Pressure SW
C24 Engine Control Module
C25 Electronically Controlled Transmission Solenoid
C26 Transmission Revolution Sensor (Turbine)
C27 Transmission Revolution Sensor (Counter Gear)
C28 Back–Up Lamp SW
C29 Starter
C30 Knock Control Sensor (Bank 1)
C31 Camshaft Position Sensor
C32 Camshaft Timing Oil Control Valve
C33 Intake Air Control Valve

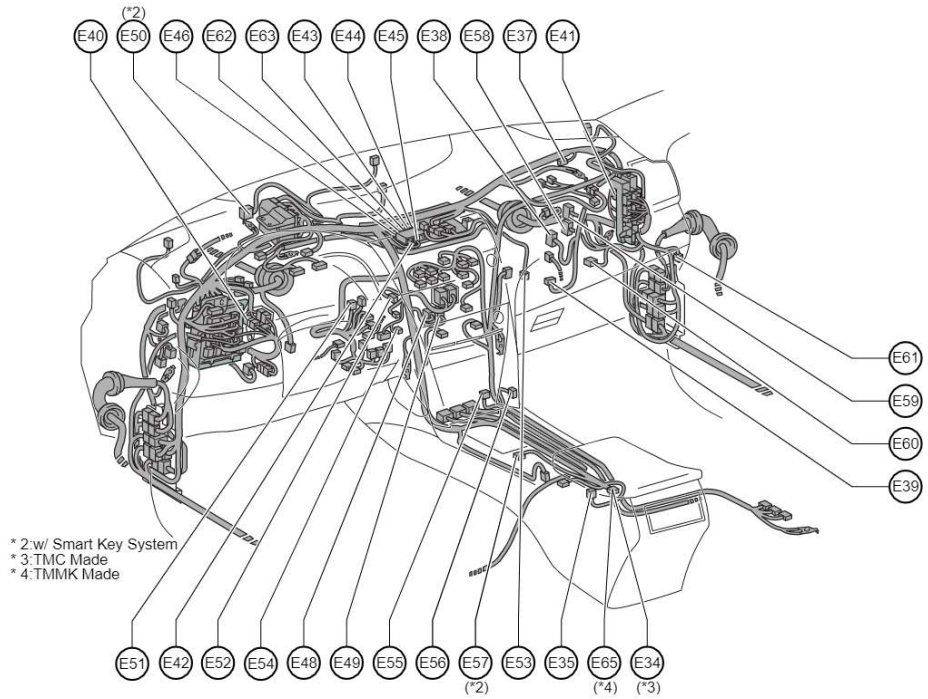
D 1 Starter

Position of Parts in Instrument Panel



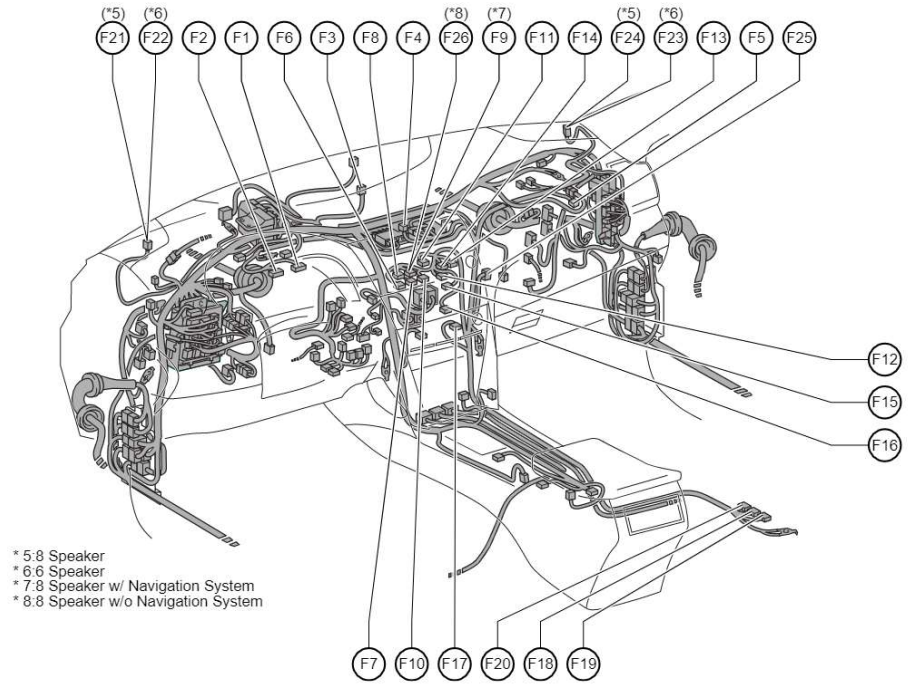
E 1 Diode (Door Courtesy Rear LH)
E 2 Diode (Door Courtesy Rear RH)
E 3 Outer Mirror SW
E 5 Diode (Door Courtesy Front LH)
E 6 Main Body ECU
E 7 Main Body ECU
E 8 Main Body ECU
E 9 Main Body ECU
E 10 Data Link Connector 3
E 11 Automatic Light Control Sensor
E 12 Ion Generator
E 13 VSC Warning Buzzer
E 14 Turn Signal Flasher
E 15 Transponder Key ECU
E 16 Airbag Squib (Steering Wheel Pad)
E 17 Steering Sensor
E 18 Spiral Cable
E 19 Windshield Wiper SW Assembly
E 20 Windshield Wiper SW Assembly
E 21 Headlamp Dimmer SW Assembly
E 22 Unlock Warning SW
E 23 Ignition SW
E 24 Key Interlock Solenoid
E 25 Transponder Key Amplifier
E 27 A/C Room Temp. Sensor
E 29 Power Outlet Socket (Front)
E 30 Airbag Sensor Assembly Center
E 31 Transmission Control SW
E 32 Shift Lock Control ECU
E 33 Parking Brake SW

Position of Parts in Instrument Panel



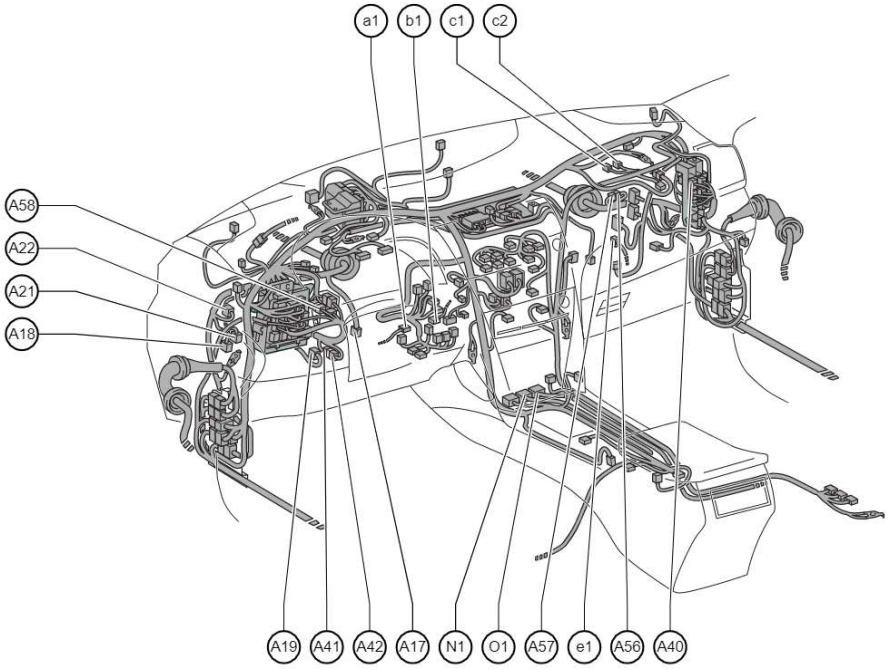
E34 Yaw Rate Sensor
E35 Power Outlet Socket (Rear)
E37 Diode (Door Courtesy Front RH)
E38 A/C Amplifier
E39 Blower Motor
E40 Junction Connector
E41 Junction Connector
E42 Junction Connector
E43 Junction Connector
E44 Junction Connector
E45 Junction Connector
E46 Junction Connector
E48 Junction Connector
E49 Junction Connector
E50 ID Code Box
E51 Steering Lock ECU
E52 Power SW
E53 Tire Pressure Warning SW (Reset)
E54 Airbag Squib (Knee Airbag)
E55 Seat Heater SW
E56 Electrical Key Oscillator (Console)
E57 Shift Lock Control ECU
E58 Certification ECU
E59 Certification ECU
E60 Tire Pressure Warning ECU
E61 Option Connector (Bus Buffer)
E62 Junction Connector
E63 Junction Connector
E65 Yaw Rate Sensor

Position of Parts in Instrument Panel



F 1 Combination Meter
F 2 Combination Meter
F 3 Clock
F 4 Hazard Warning Signal SW
F 5 Glove Box Lamp
F 6 Radio Receiver Assembly
F 7 Radio Receiver Assembly
F 8 Radio Receiver Assembly
F 9 Navigation Receiver Assembly
F 10 Navigation Receiver Assembly
F 11 Radio Receiver Assembly
F 12 Navigation Receiver Assembly
F 13 Navigation Receiver Assembly
F 14 Navigation Receiver Assembly
F 15 Antenna Amplifier
F 16 A/C Control Assembly
F 17 Stereo Jack Adapter
F 18 Stereo Component Amplifier
F 19 Stereo Component Amplifier
F 20 Stereo Component Amplifier
F 21 Tweeter (Front LH)
F 22 Tweeter (Front LH)
F 23 Tweeter (Front RH)
F 24 Tweeter (Front RH)
F 25 Junction Connector
F 26 Radio Receiver Assembly

Position of Parts in Instrument Panel



A17 Accelerator Position Sensor
A18 Parking Brake SW
A19 Stop Lamp SW
A21 Cruise Control Clutch SW
A22 Clutch Start SW
A40 Junction Connector
A41 Junction Connector
A42 Junction Connector
A56 Short Connector
A57 Short Connector
A58 Junction Connector

N 1 Airbag Sensor Assembly Center

O 1 Airbag Sensor Assembly Center

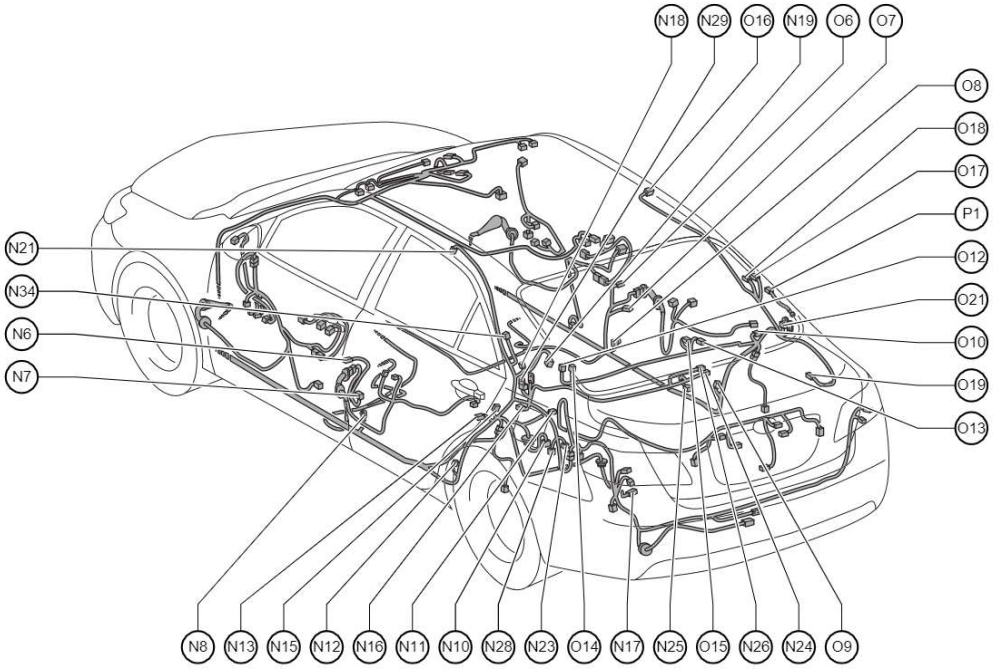
a 1 Spiral Cable
Steering Pad SW

b 1 Cruise Control SW
Spiral Cable

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

e 1 A/C Amplifier
A/C Blower Assembly

Position of Parts in Body

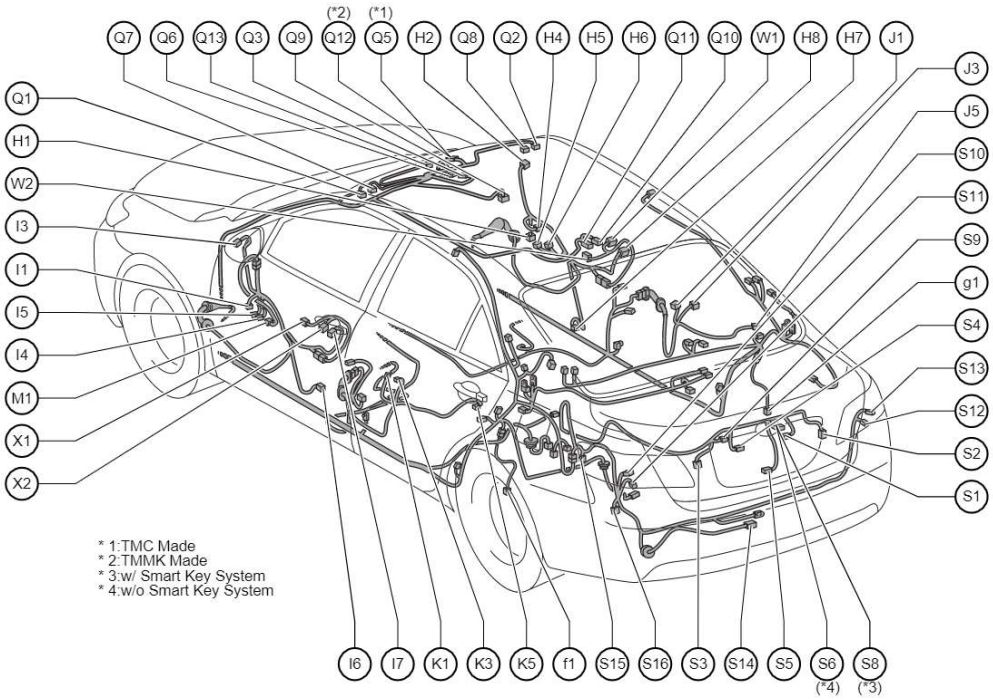


N 6 Door Courtesy SW (Driver's Side)
N 7 Side Airbag Sensor (Front LH)
N 8 Pretensioner (LH)
N10 Fuel Suction Pump and Gage Assembly
N11 Electrical Key Oscillator (Rear Seat)
N12 Side Airbag Sensor (Rear LH)
N13 Door Courtesy SW (Rear LH)
N15 Noise Filter (Dome and Stop)
N16 Center Stop Lamp
N17 Canister Pump Module
N18 Noise Filter (Rear Window Defogger)
N19 Rear Window Defogger
N21 Curtain Shield Airbag Squib (LH)
N23 Diode (Luggage Compartment Lamp)
N24 Luggage Compartment Lamp
N25 Electrical Key Oscillator (Inside Luggage Room)
N26 Luggage Compartment Lamp
N28 Junction Connector
N29 Junction Connector
N34 Tire Pressure Warning Antenna and Receiver

O 6 Door Courtesy SW (Front Passenger's Side)
O 7 Side Airbag Sensor (Front RH)
O 8 Pretensioner (RH)
O 9 Side Airbag Sensor (Rear RH)
O10 Door Courtesy SW (Rear RH)
O12 Speaker (Rear LH)
O13 Speaker (Rear RH)
O14 Speaker (Rear LH)
O15 Speaker (Rear RH)
O16 Curtain Shield Airbag Squib (RH)
O17 Door Control Receiver
O18 Door Control Receiver
O19 Electrical Key Antenna
O21 Junction Connector

P 1 Rear Window Defogger

Position of Parts in Body



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

I 1 Speaker (Front Door LH)
I 3 Outer Rear View Mirror (LH)
I 4 Power Window Regulator Motor (Front LH)
I 5 Power Window Regulator Motor (Front LH)
I 6 Courtesy Lamp (Front Door LH)
I 7 Door Lock Assembly (Driver's Side)

J 1 Power Window SW (Rear RH)
J 3 Power Window Regulator Motor (Rear RH)
J 5 Door Lock Assembly (Rear RH)

K 1 Power Window SW (Rear LH)
K 3 Power Window Regulator Motor (Rear LH)
K 5 Door Lock Assembly (Rear LH)

M 1 Power Window Master SW

Q 1 Vanity Lamp SW (LH)
Q 2 Vanity Lamp SW (RH)
Q 3 Inner Rear View Mirror
Q 5 Microphone (Navigation)
Q 6 Overhead J/B
Q 7 Vanity Lamp (LH)
Q 8 Vanity Lamp (RH)
Q 9 Room Lamp (Center)
Q10 Map Lamp (RH)
Q11 Map Lamp (LH)
Q12 Microphone (Navigation)
Q13 Sliding Roof Control ECU and Motor

S 1 License Plate Lamp (RH)
S 2 Rear Combination Lamp (RH)
S 3 Rear Combination Lamp (LH)
S 4 License Plate Lamp (LH)
S 5 Door Lock Assembly (Luggage)
S 6 Luggage Compartment Door Lock Cylinder
S 8 Luggage Compartment Door Lock Cylinder
S 9 Luggage Electrical Key SW
S10 Turn Signal Lamp (Rear LH)
S11 Rear Combination Lamp (LH)
S12 Rear Combination Lamp (RH)
S13 Turn Signal Lamp (Rear RH)
S14 Electrical Key Oscillator (Outside Luggage Room)
S15 Junction Connector
S16 Junction Connector

W 1 Door Outside Handle (Front RH)
W 2 Electrical Key Oscillator (Front Door RH)

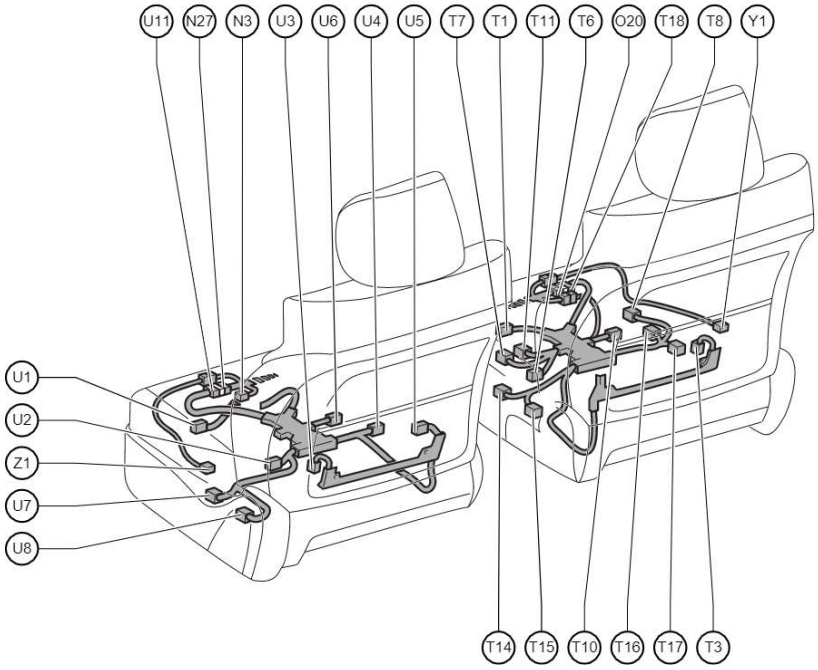
X 1 Door Outside Handle (Front LH)
X 2 Electrical Key Oscillator (Front Door LH)

f 1 Speed Sensor (Rear LH)

g 1 Speed Sensor (Rear RH)

Position of Parts in Seat

[w/ Power Seat]



N 3 Front Seat Inner Belt (Driver's Side)
N27 Junction Connector

O20 Junction Connector

T 1 Power Seat Motor
(Front Passenger's Seat Slide Control)
T 3 Power Seat Motor
(Front Passenger's Seat Reclining Control)
T 6 Seat Heater (RH)
T 7 Front Seat Inner Belt (Front Passenger's Side)
T 8 Power Seat SW (Front Passenger's Seat)
T10 Occupant Classification ECU
T11 Occupant Classification ECU
T14 Occupant Classification Sensor (Front LH)
T15 Occupant Classification Sensor (Rear LH)
T16 Occupant Classification Sensor (Front RH)
T17 Occupant Classification Sensor (Rear RH)
T18 Junction Connector

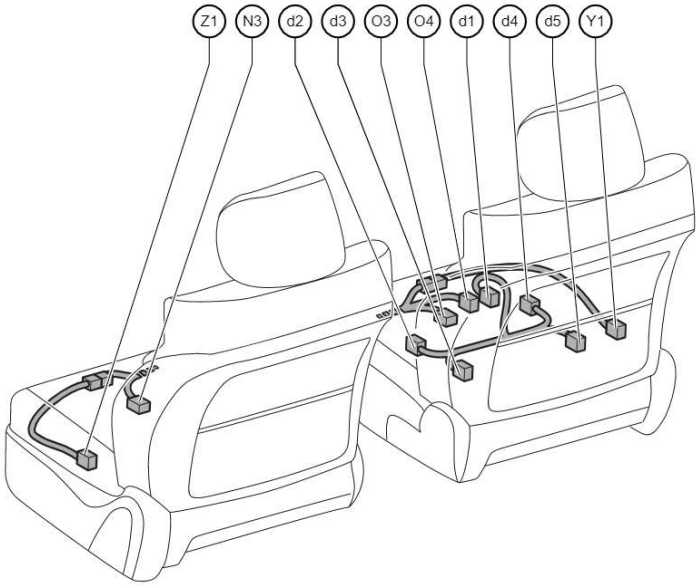
U 1 Power Seat Motor (Driver's Seat Slide Control)
U 2 Power Seat Motor (Driver's Seat Front Vertical Control)
U 3 Power Seat Motor (Driver's Seat Reclining Control)
U 4 Power Seat Motor (Driver's Seat Lifter Control)
U 5 Power Seat Motor
(Driver's Seat Lumbar Support Control)
U 6 Seat Heater (LH)
U 7 Power Seat SW (Driver's Seat)
U 8 Power Seat SW (Driver's Seat Lumbar Support Control)
U11 Junction Connector

Y 1 Side Airbag Squib (RH)

Z 1 Side Airbag Squib (LH)

Position of Parts in Seat

[w/o Power Seat]



N 3 Front Seat Inner Belt (Driver's Side)

O 3 Front Seat Inner Belt (Front Passenger's Side)
O 4 Occupant Classification ECU

Y 1 Side Airbag Squib (RH)

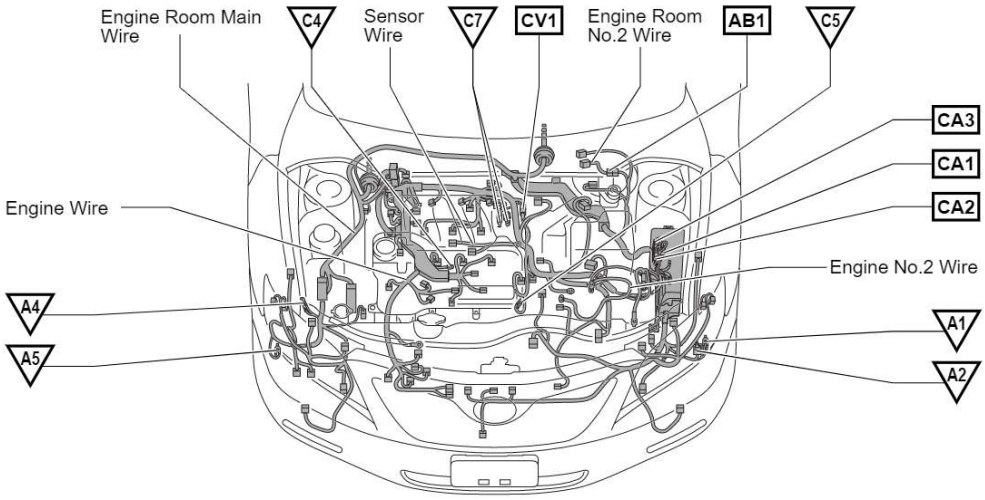
Z 1 Side Airbag Squib (LH)

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

G ELECTRICAL WIRING ROUTING

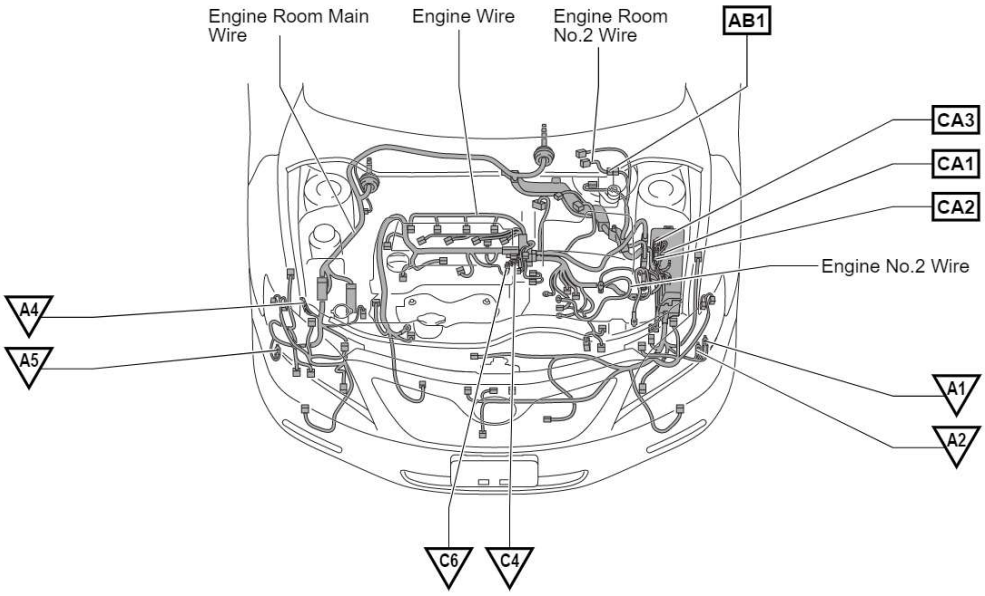
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[2GR–FE]



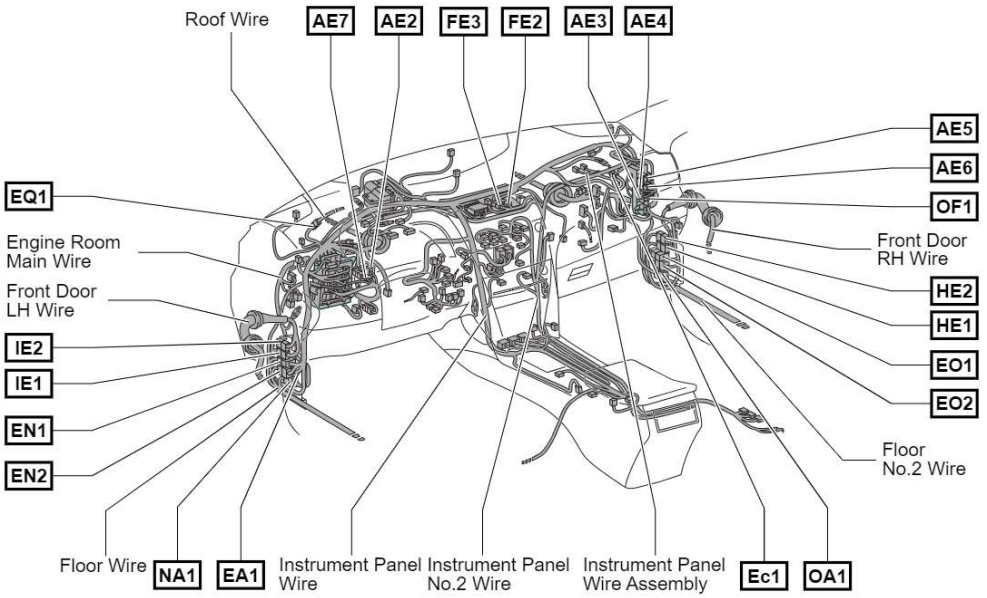
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[2AZ–FE]

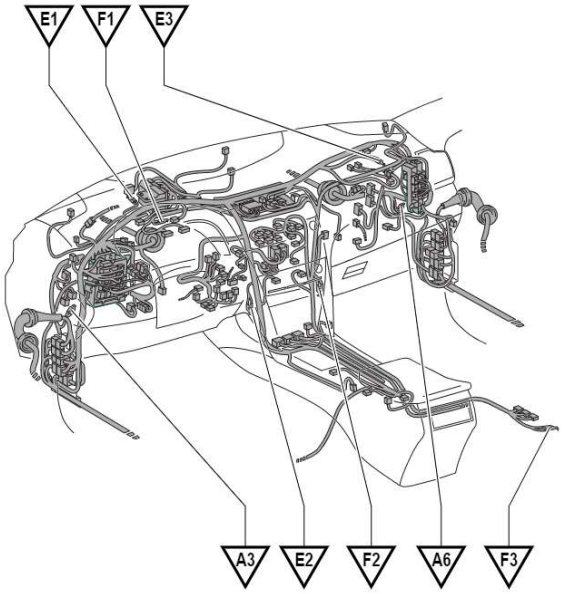


G ELECTRICAL WIRING ROUTING

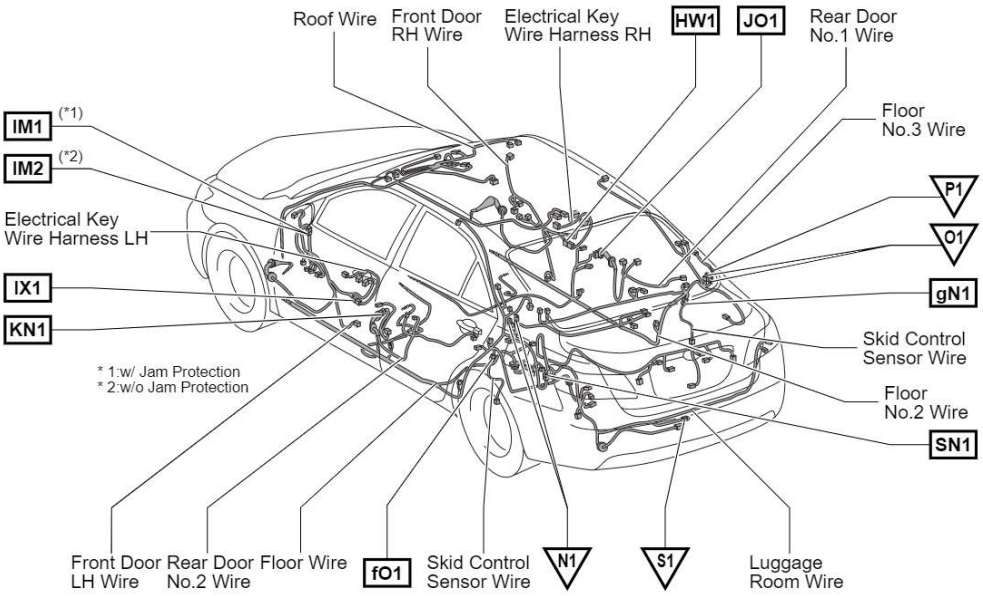
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

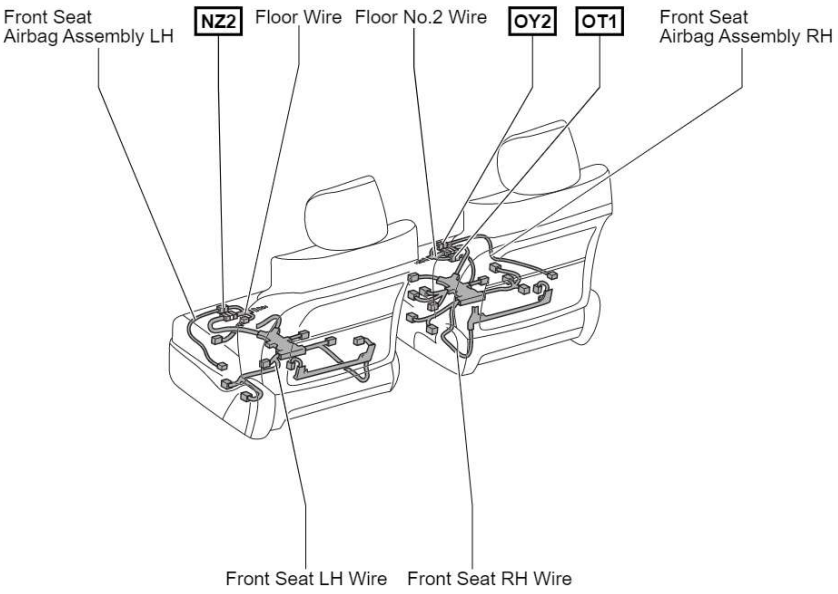


: Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points



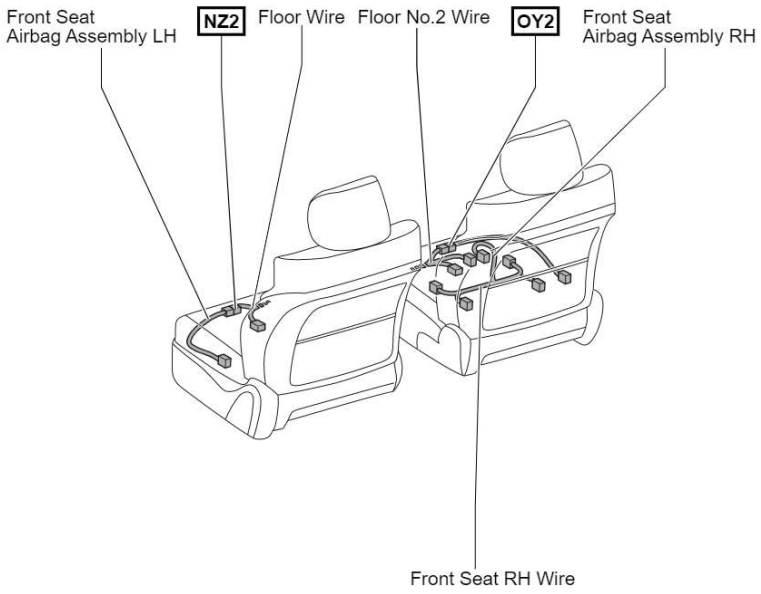
▭ : Location of Connector Joining Wire Harness and Wire Harness

[w/ Power Seat]



▭ : Location of Connector Joining Wire Harness and Wire Harness

[w/o Power Seat]

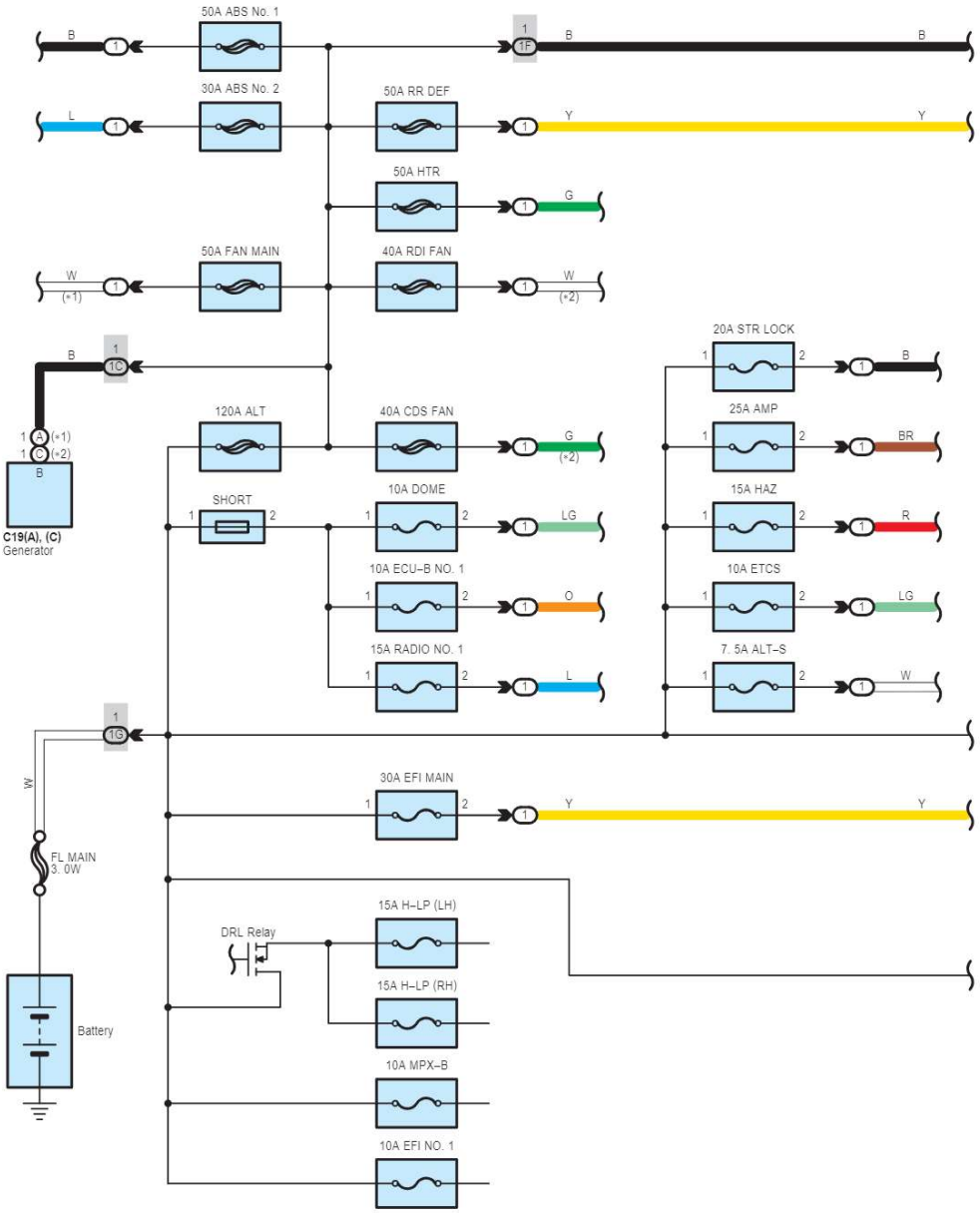


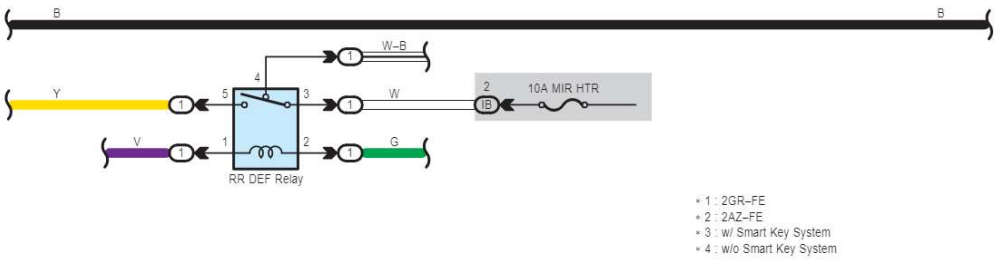
2007 CAMRY
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

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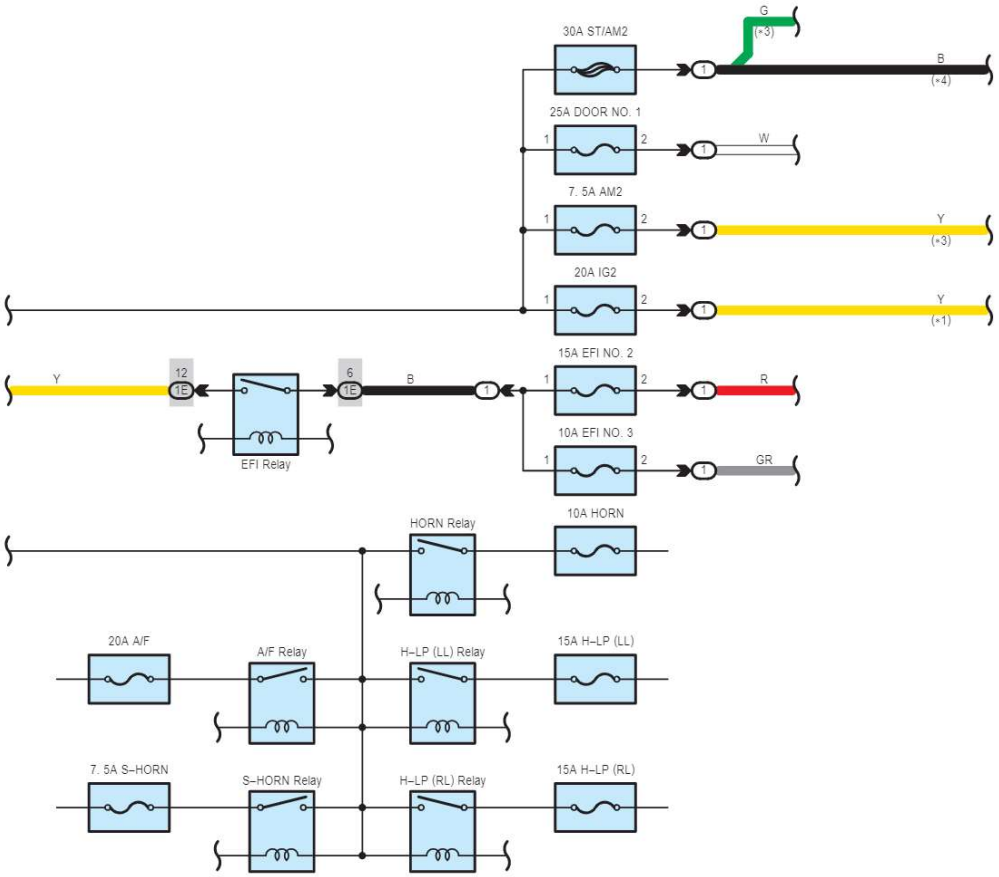
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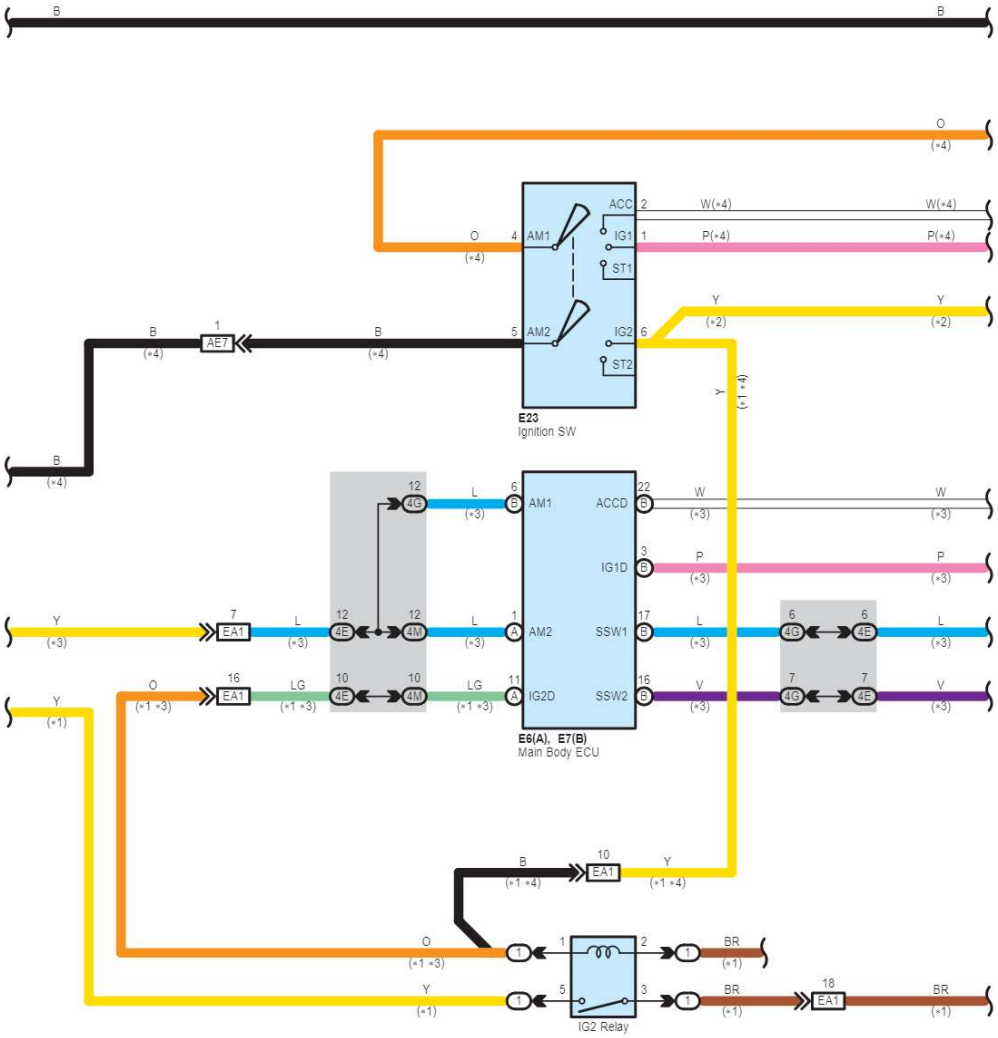
Power Source

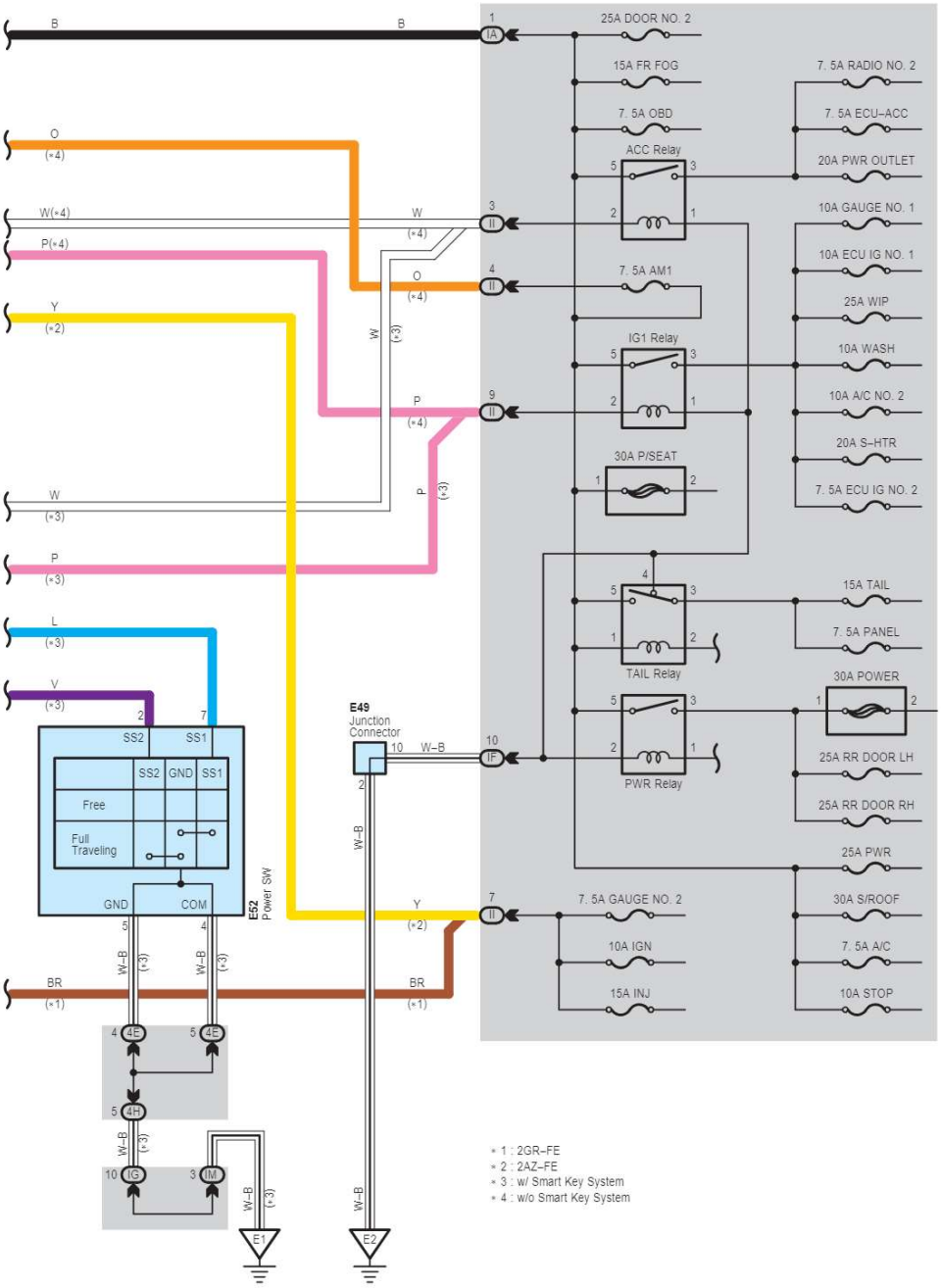




* 1 : 2GR-FE
* 2 : 2AZ-FE
* 3 : w/ Smart Key System
* 4 : w/o Smart Key System




B
B
O
(*4)
ACC
2
W(*4)
W(*4)
O
(*4)
4
AM1
IG1
1
P(*4)
P(*4)
ST1
Y
(*2)
Y
(*2)
B
(*4)
1
AE7
B
(*4)
5
AM2
IG2
6
ST2
Y
(*1 *4)
E23
Ignition SW
B
(*4)
12
4G
L
(*3)
6
B
AM1
ACCD
22
B
W
(*3)
W
(*3)
IG1D
3
B
P
(*3)
P
(*3)
Y
(*3)
7
EA1
L
(*3)
12
4E
12
4M
L
(*3)
1
A
AM2
SSW1
17
B
L
(*3)
6
4G
6
4E
L
(*3)
O
(*1 *3)
16
EA1
LG
(*1 *3)
10
4E
10
4M
LG
(*1 *3)
11
A
IG2D
SSW2
16
B
V
(*3)
7
4G
7
4E
V
(*3)
Y
(*1)
E6(A), E7(B)
Main Body ECU
B
(*1 *4)
10
EA1
Y
(*1 *4)
O
(*1 *3)
1
1
2
1
BR
(*1)
Y
(*1)
1
5
3
1
BR
(*1)
18
EA1
BR
(*1)
IG2 Relay


B
B
1
1A
25A DOOR NO. 2
15A FR FOG
7. 5A OBD
ACC Relay
7. 5A RADIO NO. 2
7. 5A ECU–ACC
20A PWR OUTLET
O
(*4)
W(*4)
W
(*4)
3
II
10A GAUGE NO. 1
P(*4)
4
II
7. 5A AM1
10A ECU IG NO. 1
25A WIP
Y
(*2)
W
(*3)
IG1 Relay
10A WASH
P
(*4)
9
II
10A A/C NO. 2
20A S–HTR
30A P/SEAT
7. 5A ECU IG NO. 2
W
(*3)
P
(*3)
P
(*3)
15A TAIL
7. 5A PANEL
TAIL Relay
L
(*3)
V
(*3)
30A POWER
E49
Junction
Connector
10
W–B
10
1F
25A RR DOOR LH
25A RR DOOR RH
PWR Relay
25A PWR
SS2
SS1
SS2
GND
SS1
Free
Full
Traveling
GND
COM
E52
Power SW
Y
(*2)
7
II
7. 5A GAUGE NO. 2
30A S/ROOF
10A IGN
7. 5A A/C
BR
(*1)
BR
(*1)
15A INJ
10A STOP
W–B
(*3)
4E
5E
4H
IG
IM
E1
E2
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : w/ Smart Key System
* 4 : w/o Smart Key System

Power Source

○ : **Parts Location**

Code		See Page	Code		See Page	Code	See Page
C19	A	50 (2GR–FE)	E7	B	56	E52	57
	C	54 (2AZ–FE)	E23		56		
E6	A	56	E49		57		

⬭ : **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**

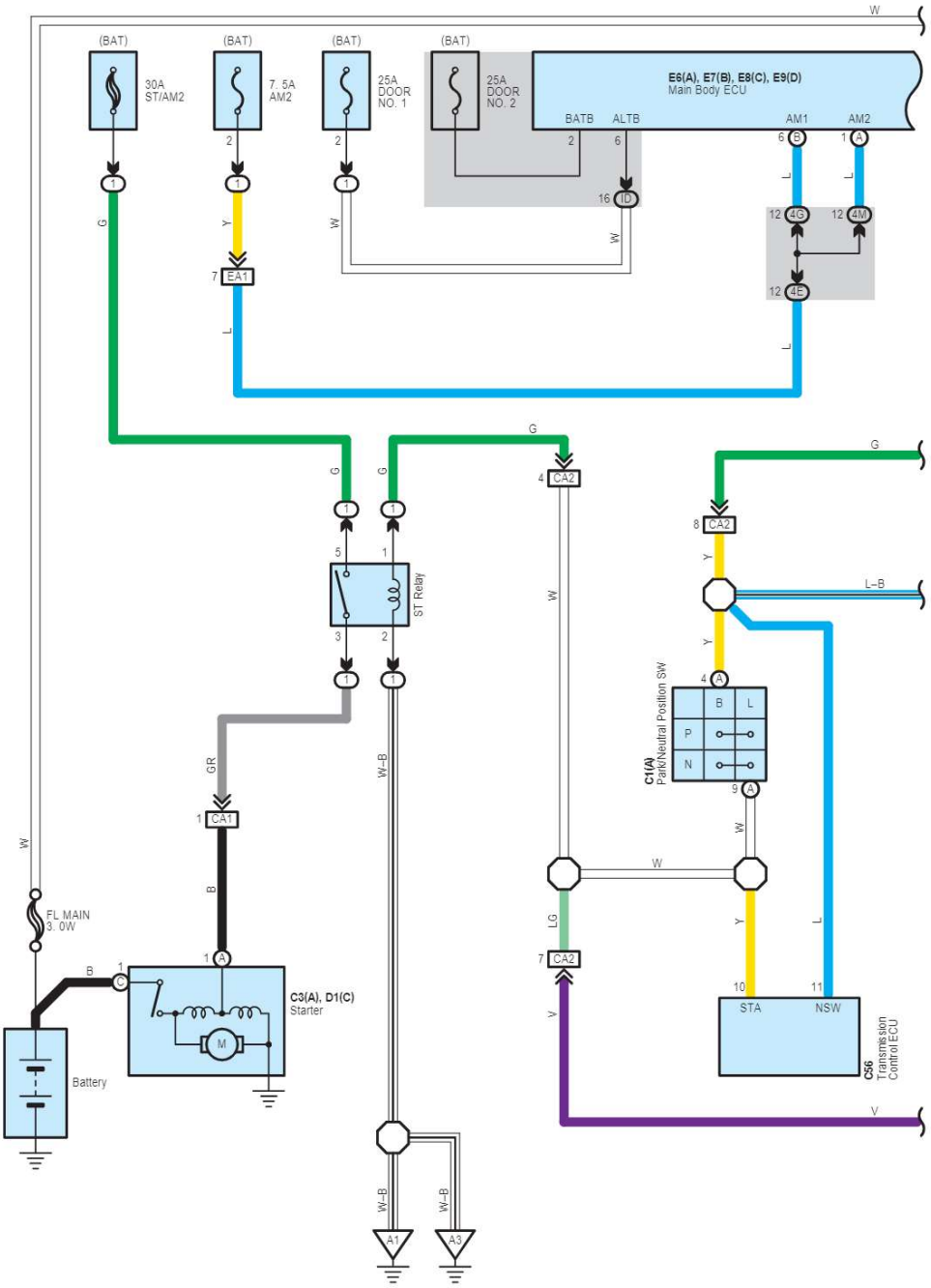
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	22	Engine Wire and Engine Room J/B (Engine Compartment Left)
1E	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
4E	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4G		
4H		
4M		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IB		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		
IM	30	

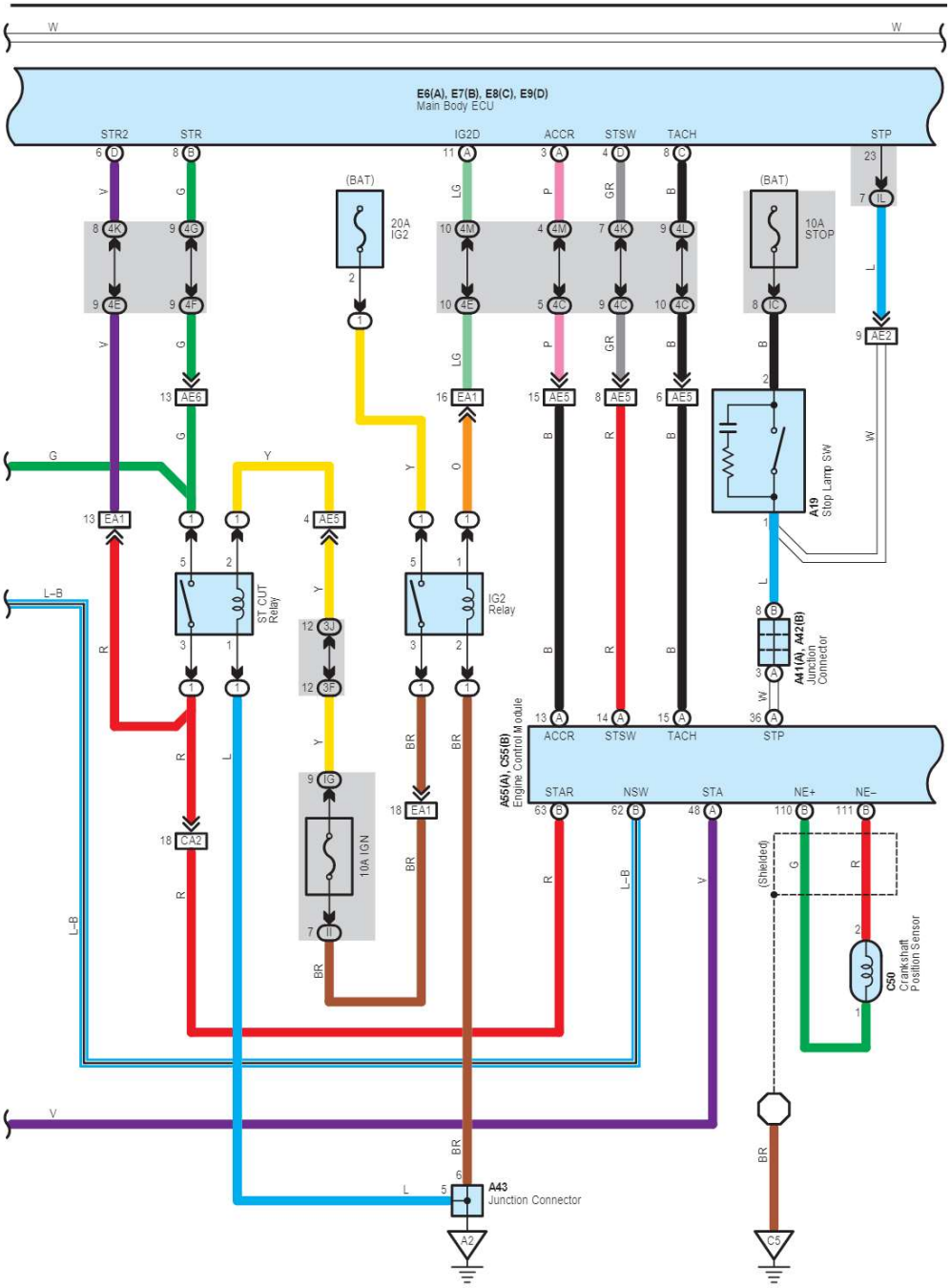
▭ : **Connector Joining Wire Harness and Wire Harness**

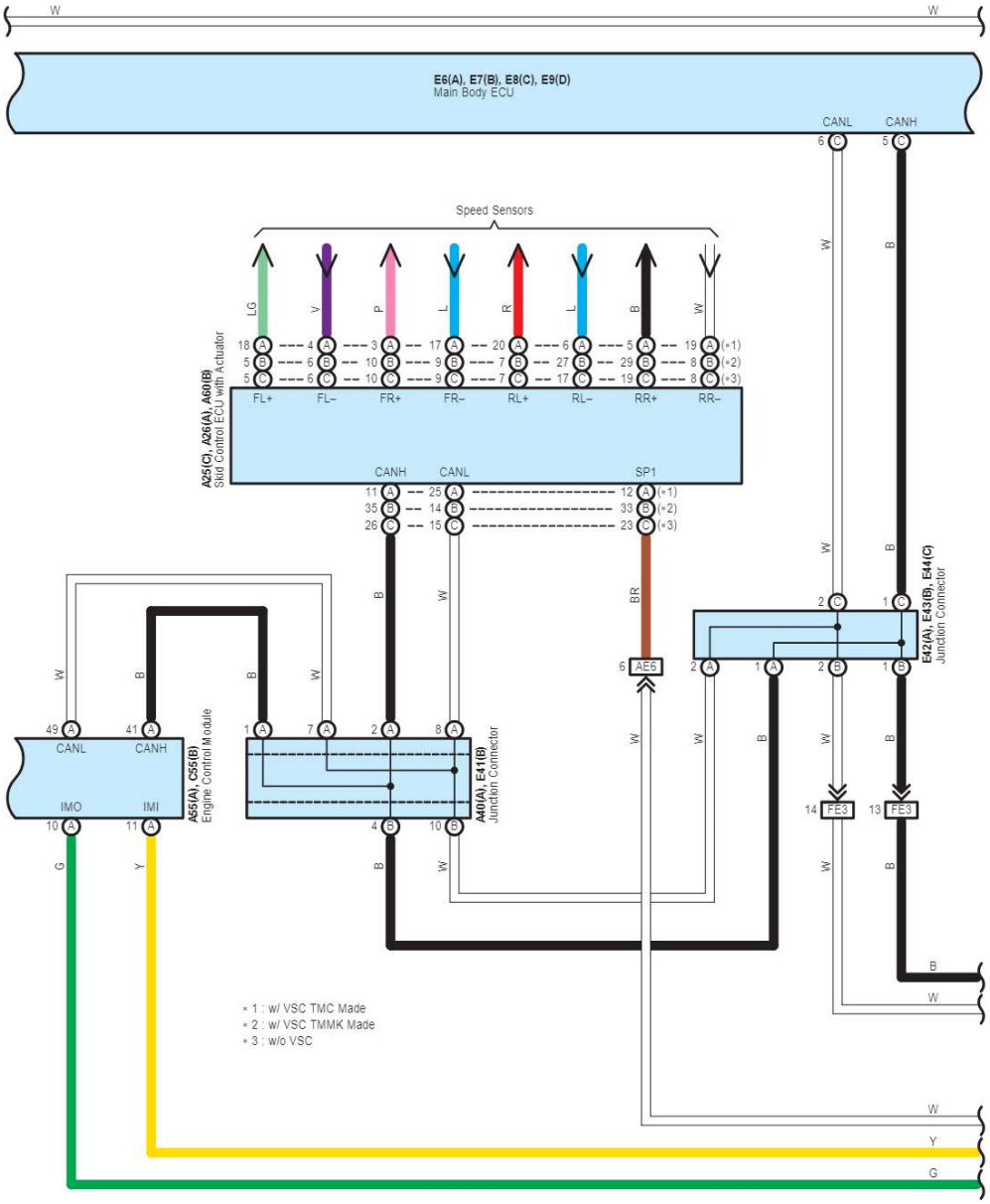
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

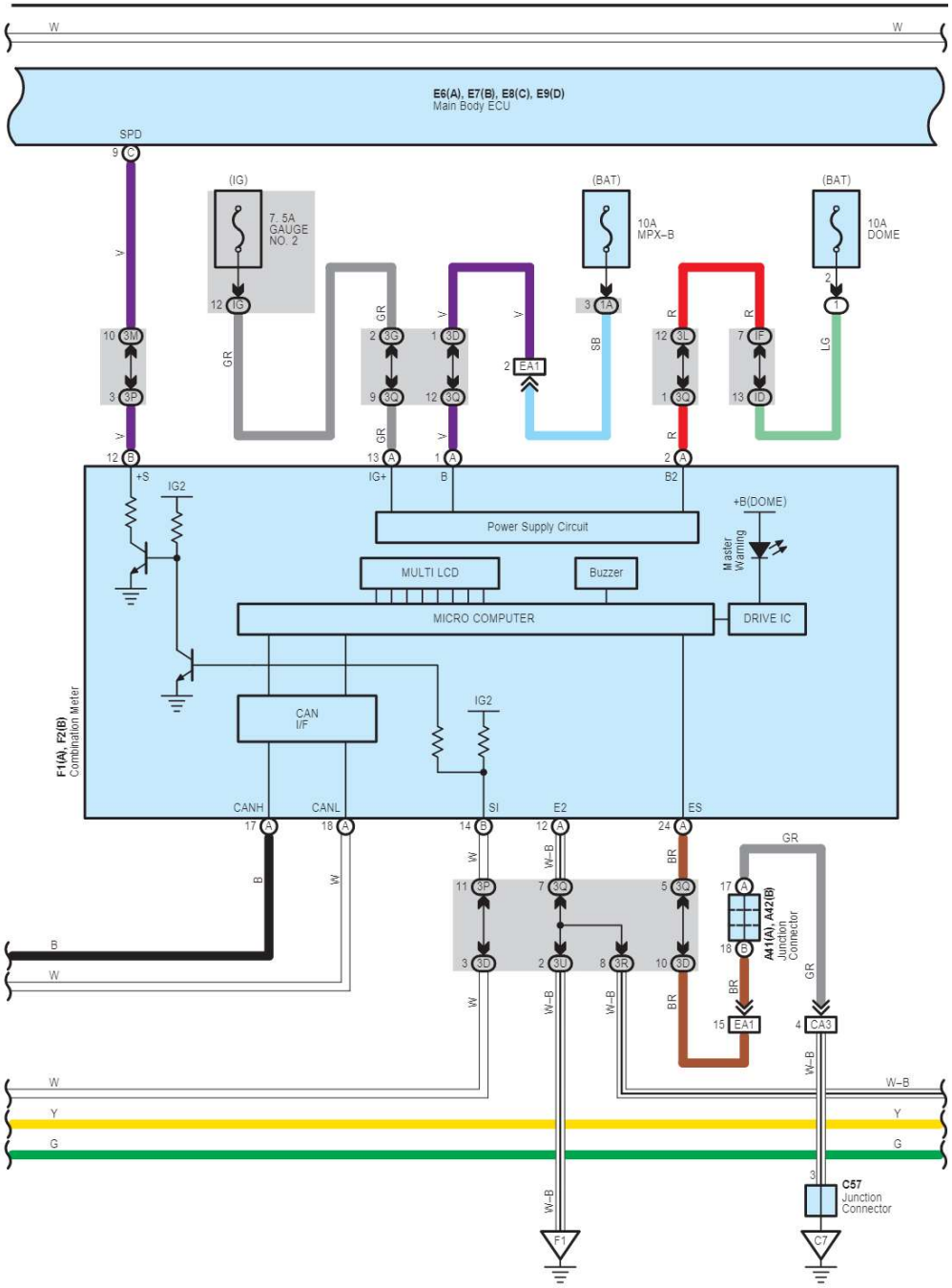
▽ : **Ground Points**

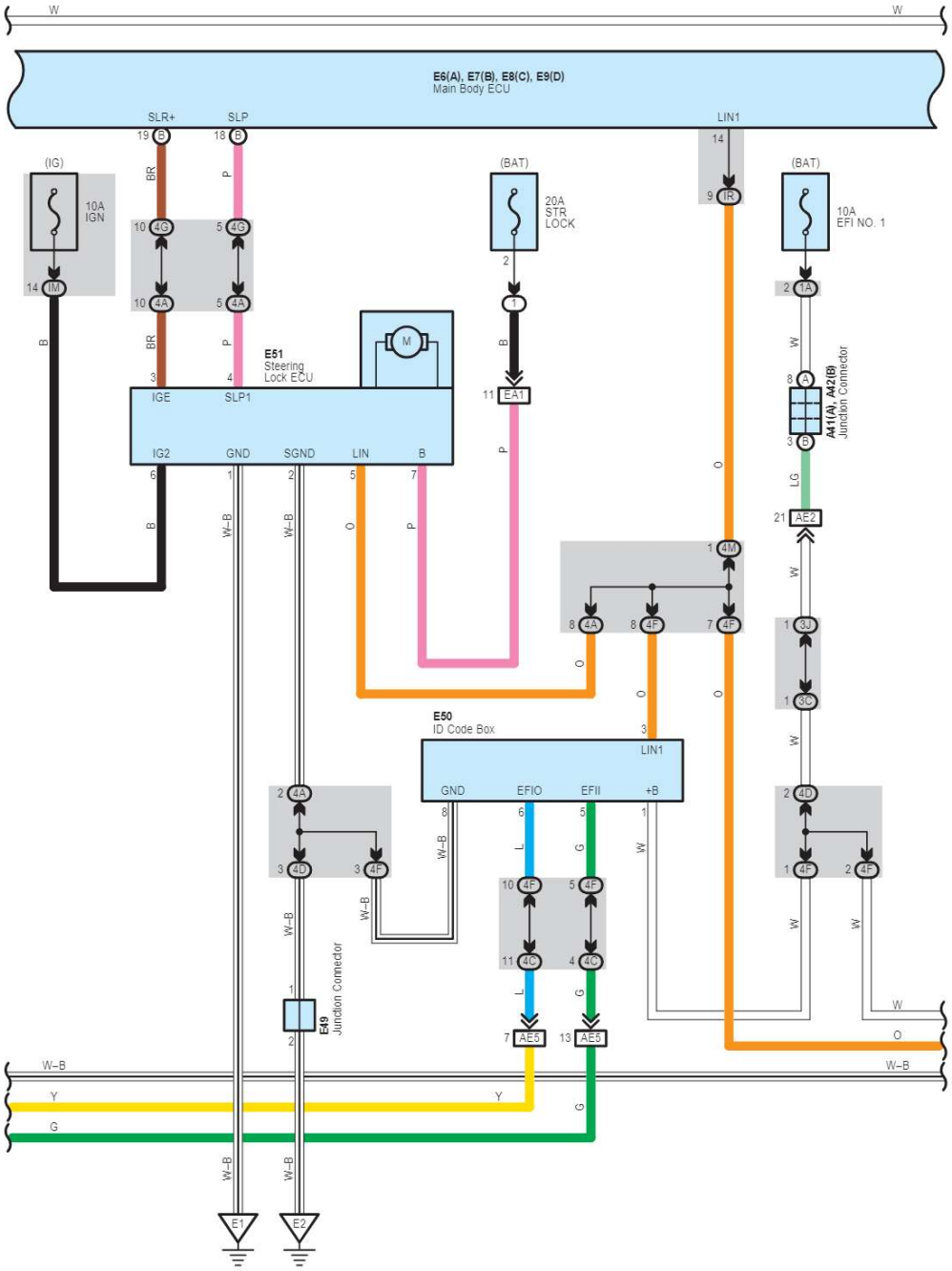
Code	See Page	Ground Points Location
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH

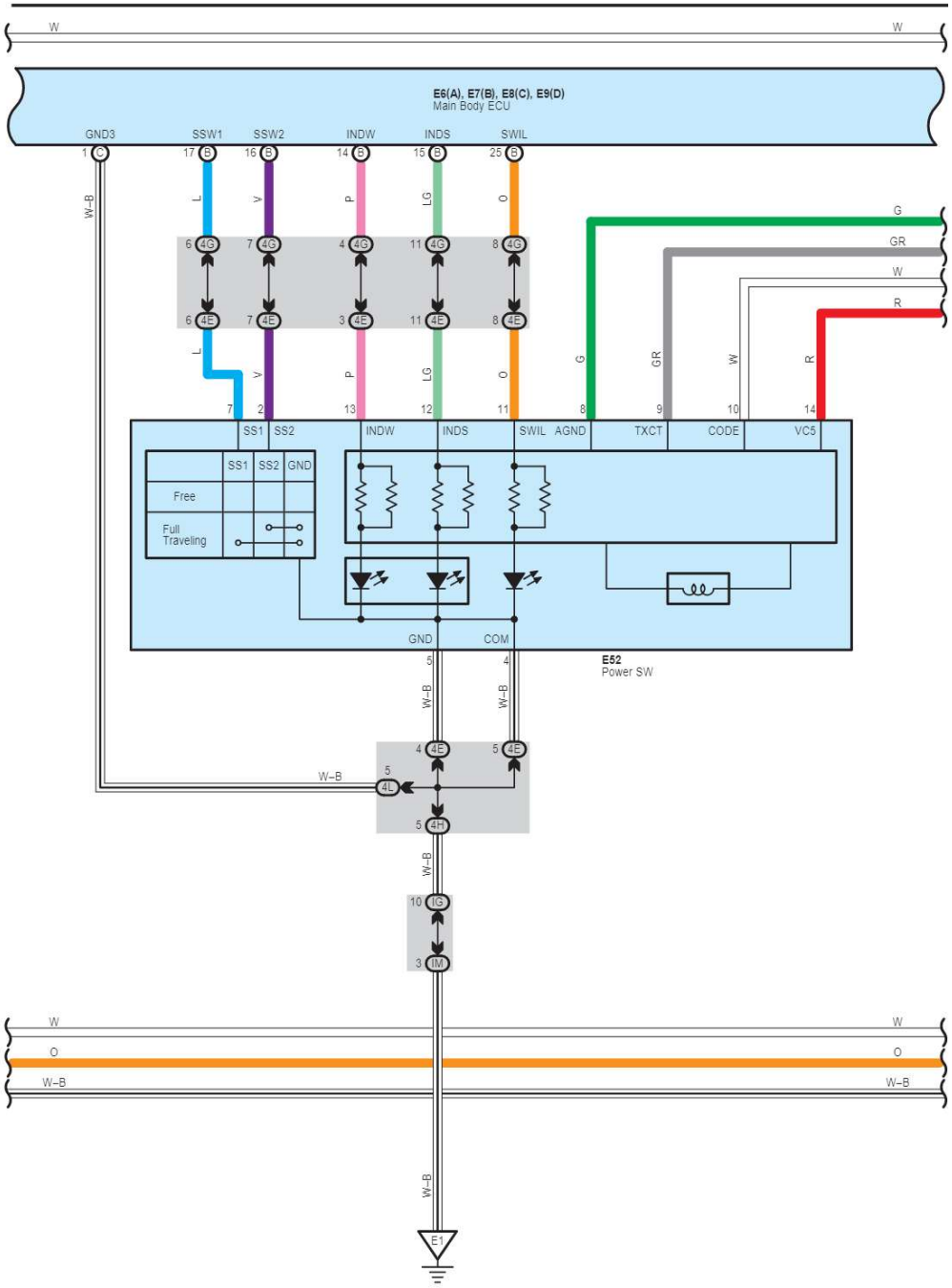

(BAT)
30A ST/AM2
7. 5A AM2
25A DOOR NO. 1
25A DOOR NO. 2
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
BATB
ALTB
AM1
AM2
EA1
ST Relay
CA1
CA2
C1(A)
Park/Neutral Position SW
B
L
P
N
FL MAIN
3. 0W
C3(A), D1(C)
Starter
M
Battery
STA
NSW
C56
Transmission Control ECU
A1
A3

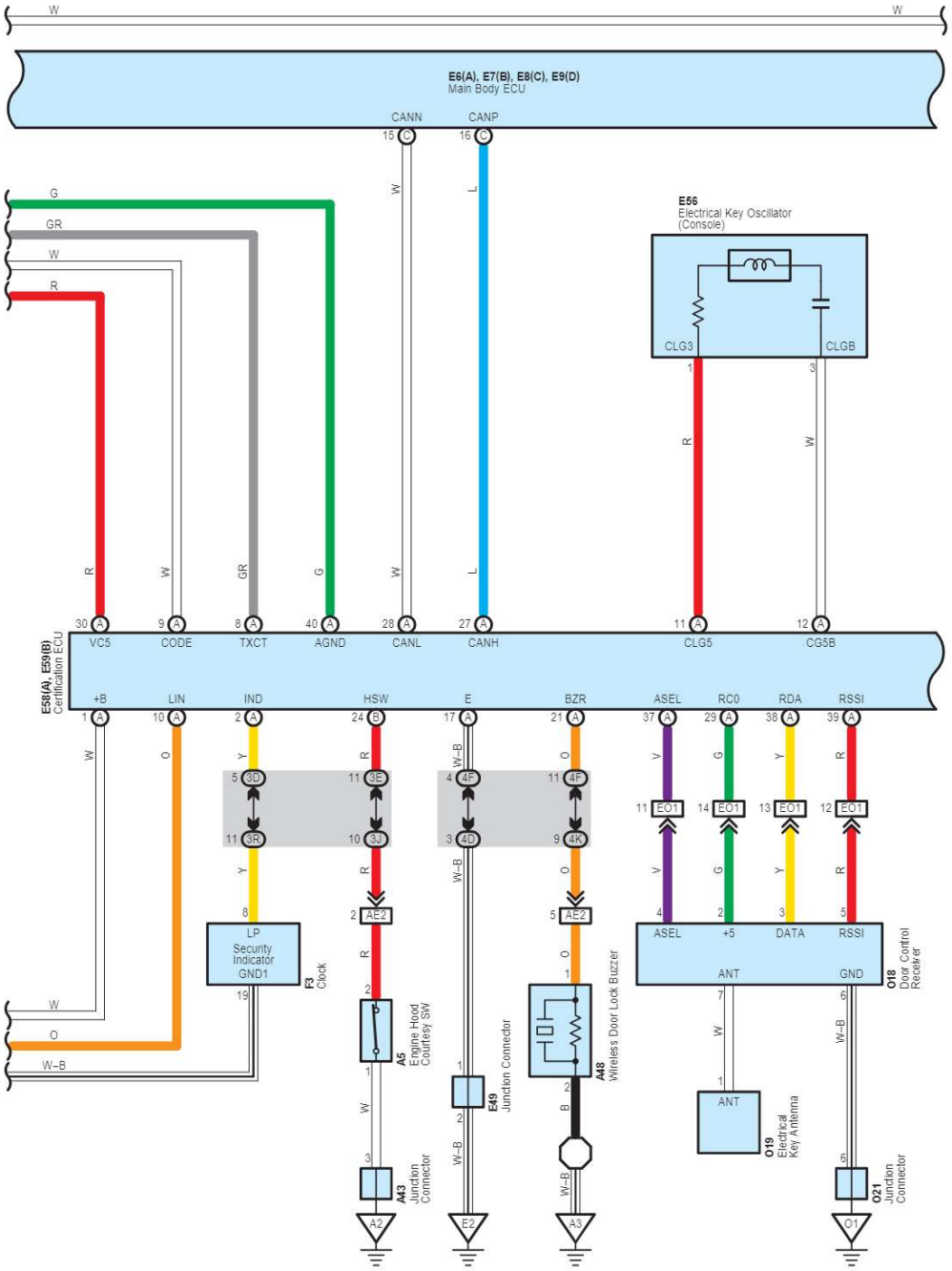

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
STR2
STR
IG2D
ACCR
STSW
TACH
STP
(BAT)
20A
IG2
(BAT)
10A
STOP
ST CUT
Relay
IG2
Relay
10A IGN
A19
Stop Lamp SW
A41(A), A42(B)
Junction
Connector
A55(A), C55(B)
Engine Control Module
ACCR
STSW
TACH
STP
STAR
NSW
STA
NE+
NE−
(Shielded)
C50
Crankshaft
Position Sensor
A43
Junction Connector
A2
C5

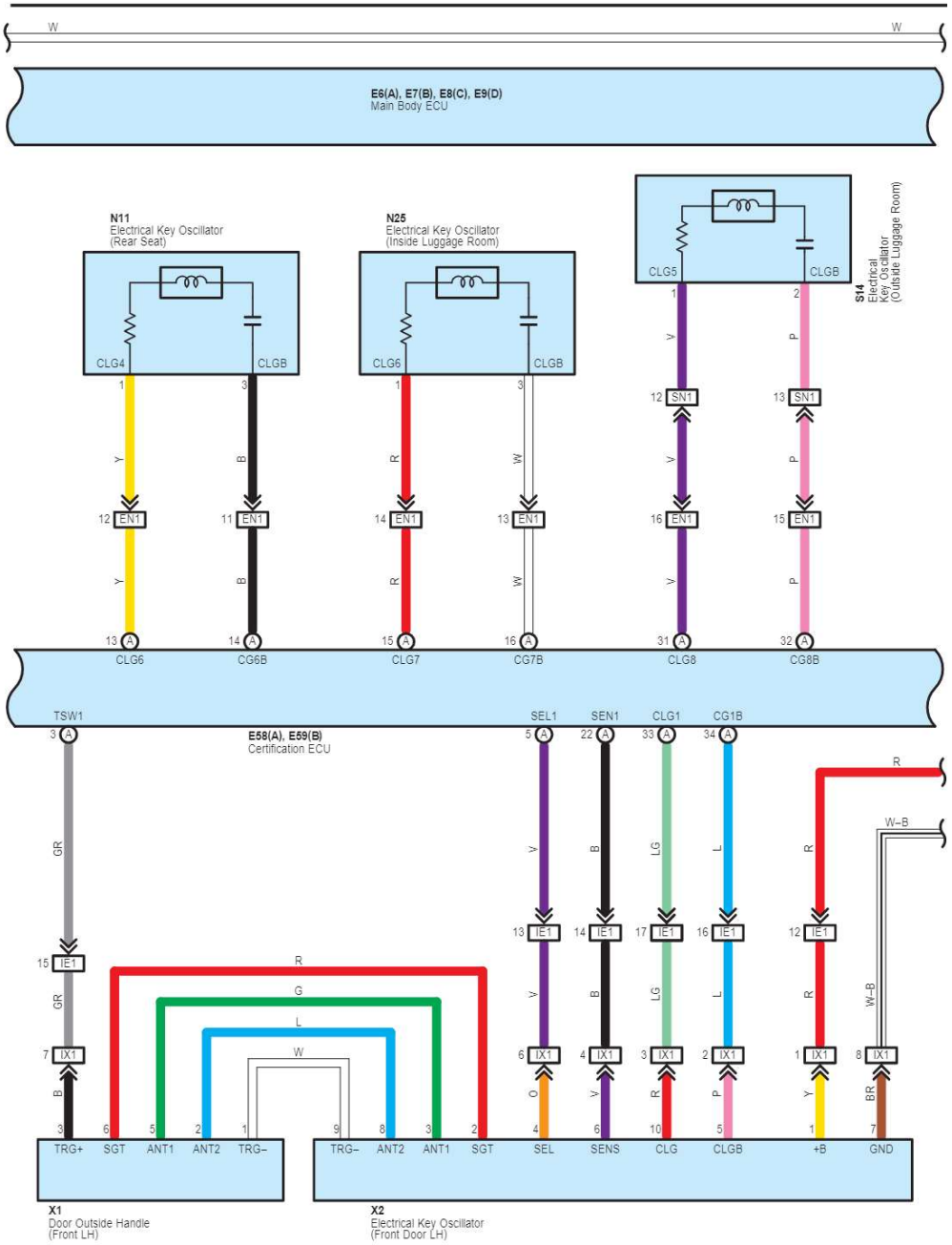

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
CANL
CANH
Speed Sensors
LG
V
P
L
R
L
B
W
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
CANH
CANL
SP1
BR
AE6
E42(A), E43(B), E44(C)
Junction Connector
A55(A), C55(B)
Engine Control Module
IMO
IMI
A40(A), E41(B)
Junction Connector
FE3
FE3
* 1 : w/ VSC TMC Made
* 2 : w/ VSC TMMK Made
* 3 : w/o VSC


W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
SPD
9 C
(IG)
7. 5A
GAUGE
NO. 2
12 IG
(BAT)
10A
MPX–B
3 1A
(BAT)
10A
DOME
2
1
V
GR
SB
R
LG
10 3M
3 3P
2 3G
9 3Q
1 3D
12 3Q
2 EA1
12 3L
1 3Q
7 1F
13 1D
12 B
13 A
1 A
2 A
+S
IG2
IG+
B
B2
Power Supply Circuit
+B(DOME)
Master Warning
MULTI LCD
Buzzer
MICRO COMPUTER
DRIVE IC
CAN
I/F
IG2
F1(A), F2(B)
Combination Meter
CANH
CANL
SI
E2
ES
17 A
18 A
14 B
12 A
24 A
W
W–B
BR
GR
11 3P
7 3Q
5 3Q
17 A
18 B
A41(A), A42(B)
Junction
Connector
3 3D
2 3U
8 3R
10 3D
15 EA1
4 CA3
B
W
Y
G
3
C57
Junction
Connector
F1
C7

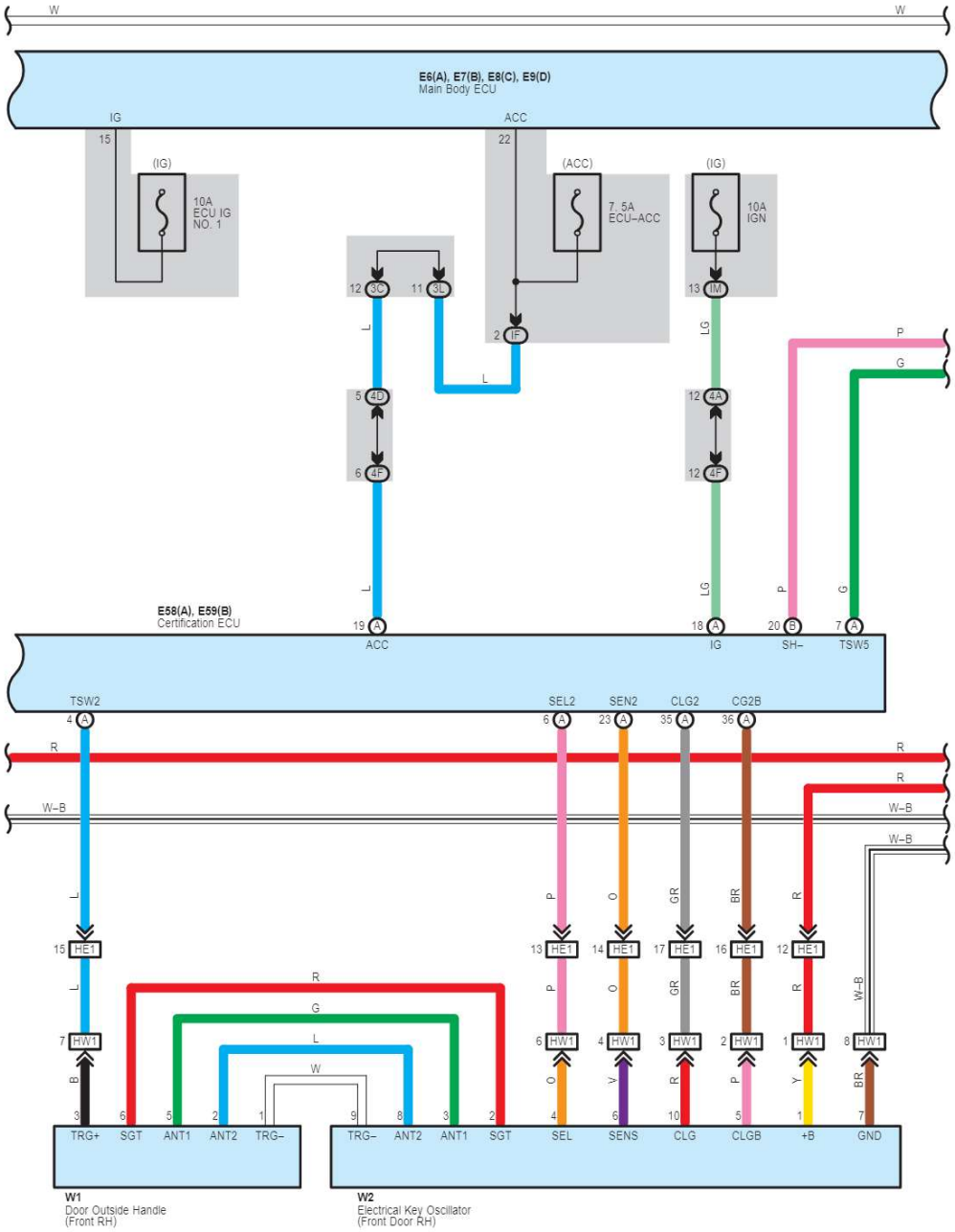

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
SLR+
SLP
LIN1
(IG)
10A
IGN
(BAT)
20A
STR
LOCK
(BAT)
10A
EFI NO. 1
E51
Steering
Lock ECU
IGE
SLP1
IG2
GND
SGND
LIN
B
A41(A), A42(B)
Junction Connector
E50
ID Code Box
LIN1
GND
EFIO
EFII
+B
E49
Junction Connector
W-B
Y
G
E1
E2

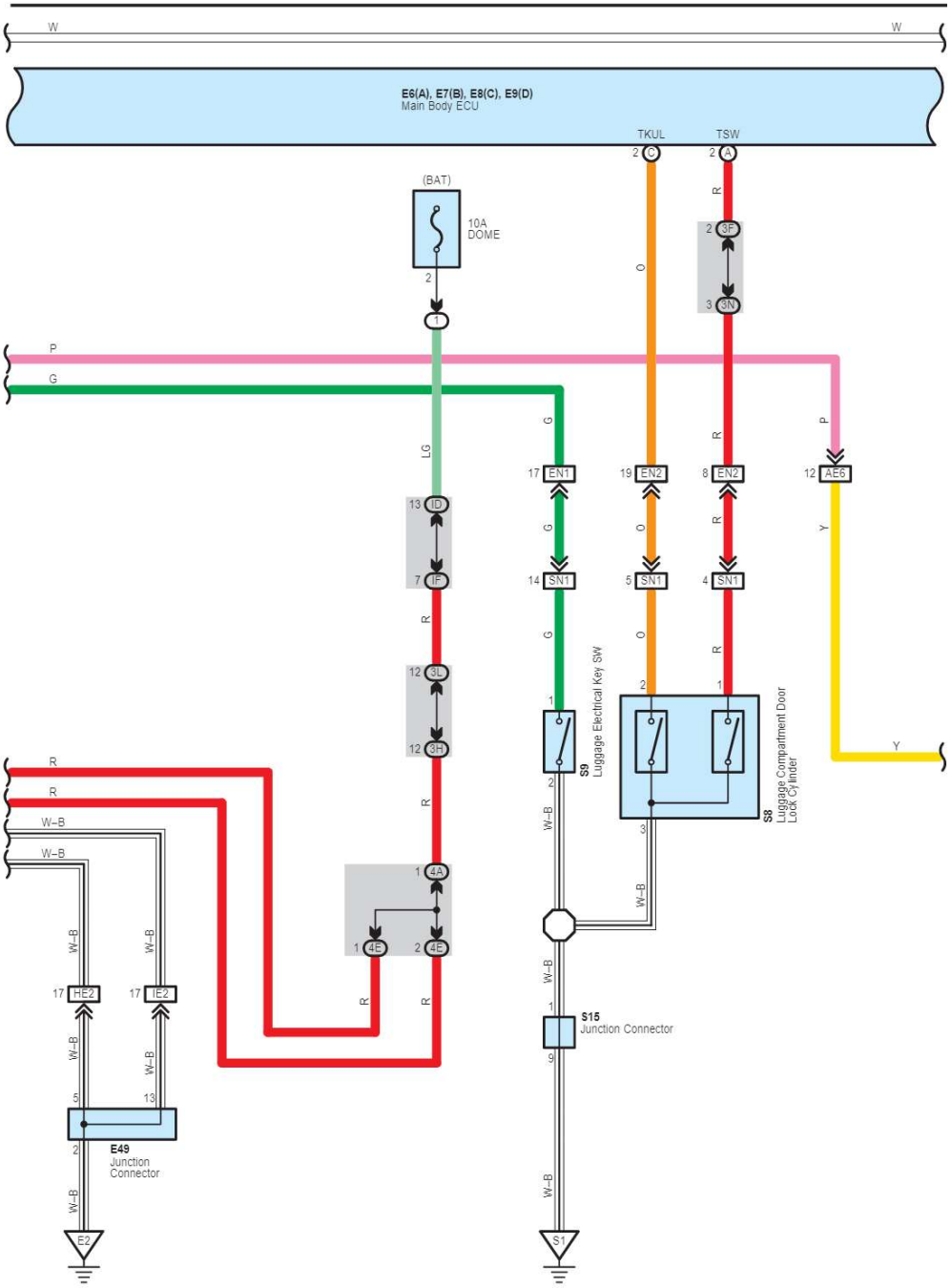

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
GND3
SSW1
SSW2
INDW
INDS
SWIL
W–B
L
V
P
LG
O
G
GR
W
R
SS1
SS2
INDW
INDS
SWIL
AGND
TXCT
CODE
VC5
SS1
SS2
GND
Free
Full Traveling
GND
COM
E52
Power SW
W–B
W–B
W–B
W–B
W
O
W–B
W
O
W–B
W–B
E1

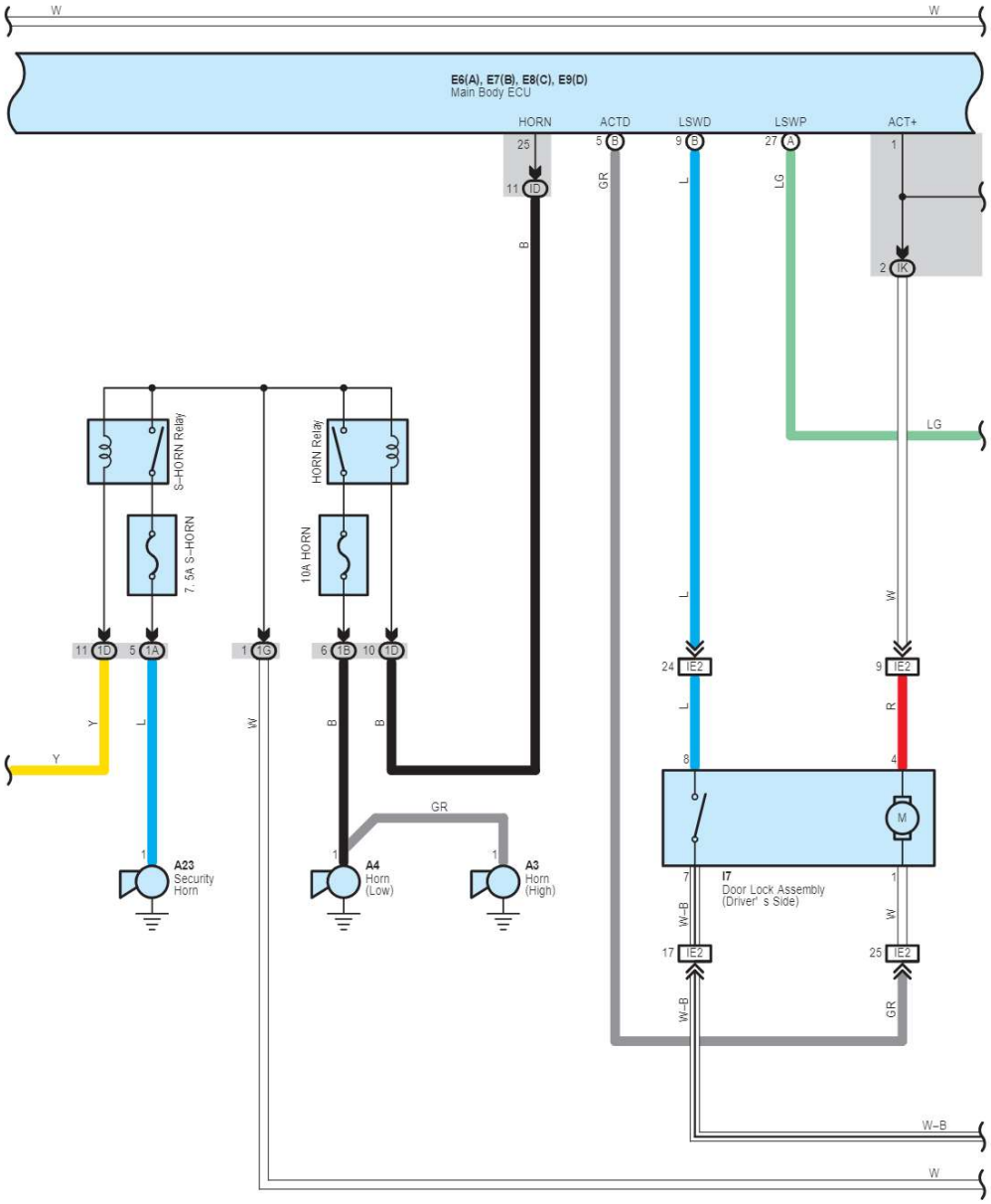

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
CANN
CANP
15 C
16 C
G
GR
W
R
E56
Electrical Key Oscillator
(Console)
CLG3
CLGB
1
3
R
W
R
W
GR
G
W
L
30 A
9 A
8 A
40 A
28 A
27 A
11 A
12 A
VC5
CODE
TXCT
AGND
CANL
CANH
CLG5
CG5B
E58(A), E59(B)
Certification ECU
+B
LIN
IND
HSW
E
BZR
ASEL
RC0
RDA
RSSI
1 A
10 A
2 A
24 B
17 A
21 A
37 A
29 A
38 A
39 A
W
O
Y
R
W-B
O
V
G
Y
R
5 3D
11 3E
4 4F
11 4F
11 EO1
14 EO1
13 EO1
12 EO1
11 3R
10 3J
3 4O
9 4K
Y
R
W-B
O
V
G
Y
R
8
2 AE2
5 AE2
4
2
3
5
LP
Security
Indicator
GND1
19
R3
Clock
ASEL
+5
DATA
RSSI
ANT
GND
O18
Door Control
Receiver
W
O
W-B
2
R
2
7
6
W
W-B
A5
Engine Hood
Courtesy SW
E49
Junction Connector
A48
Wireless Door Lock Buzzer
1
1
1
2
B
ANT
O19
Electrical
Key Antenna
1
3
2
2
6
A43
Junction
Connector
O21
Junction
Connector
A2
E2
A3
O1

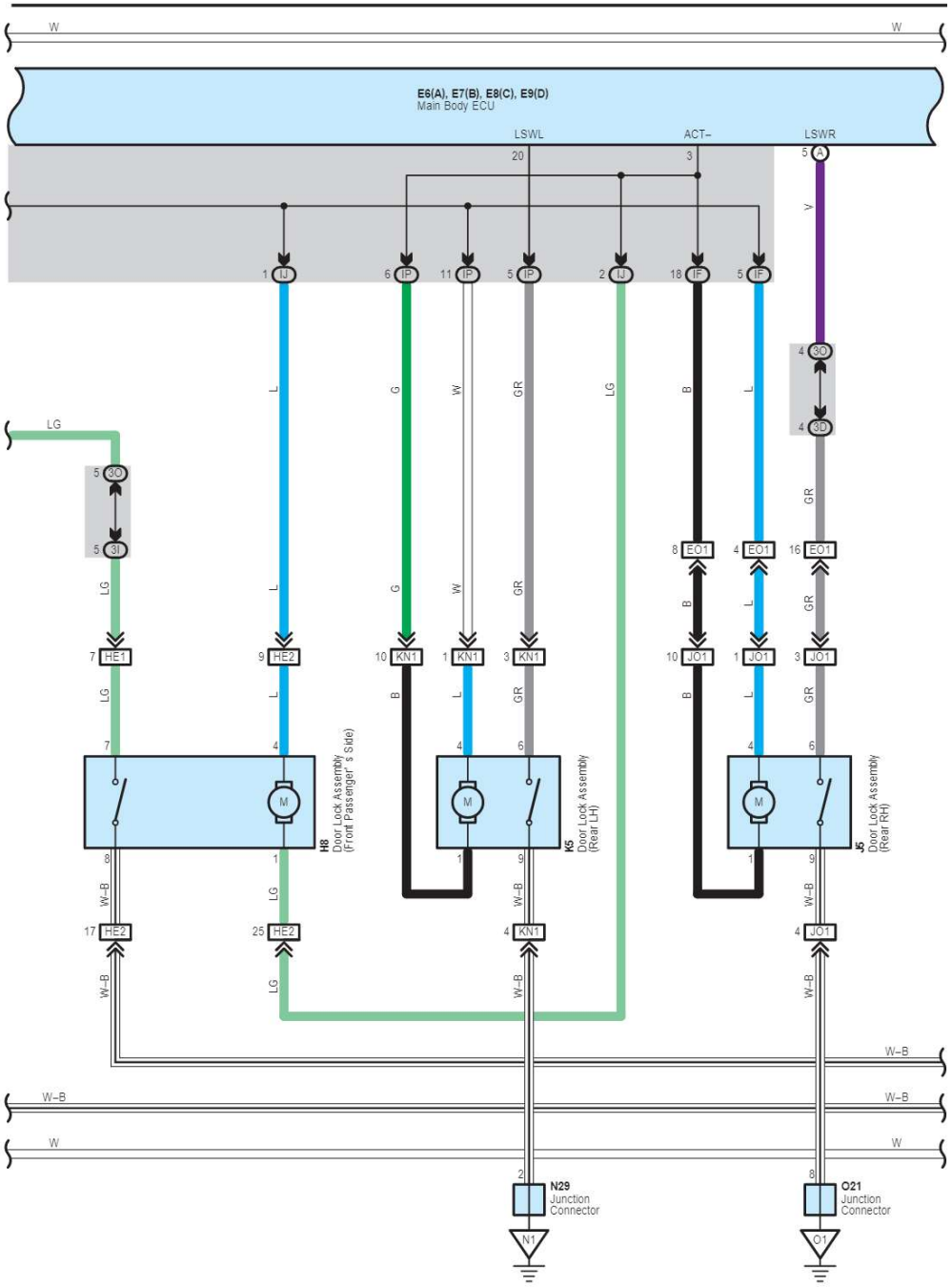

W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
N11
Electrical Key Oscillator
(Rear Seat)
N25
Electrical Key Oscillator
(Inside Luggage Room)
S14
Electrical
Key Oscillator
(Outside Luggage Room)
CLG4
CLGB
CLG6
CLGB
CLG5
CLGB
EN1
SN1
CLG6
CG6B
CLG7
CG7B
CLG8
CG8B
TSW1
E58(A), E59(B)
Certification ECU
SEL1
SEN1
CLG1
CG1B
IE1
IX1
TRG+
SGT
ANT1
ANT2
TRG–
SEL
SENS
CLG
CLGB
+B
GND
X1
Door Outside Handle
(Front LH)
X2
Electrical Key Oscillator
(Front Door LH)

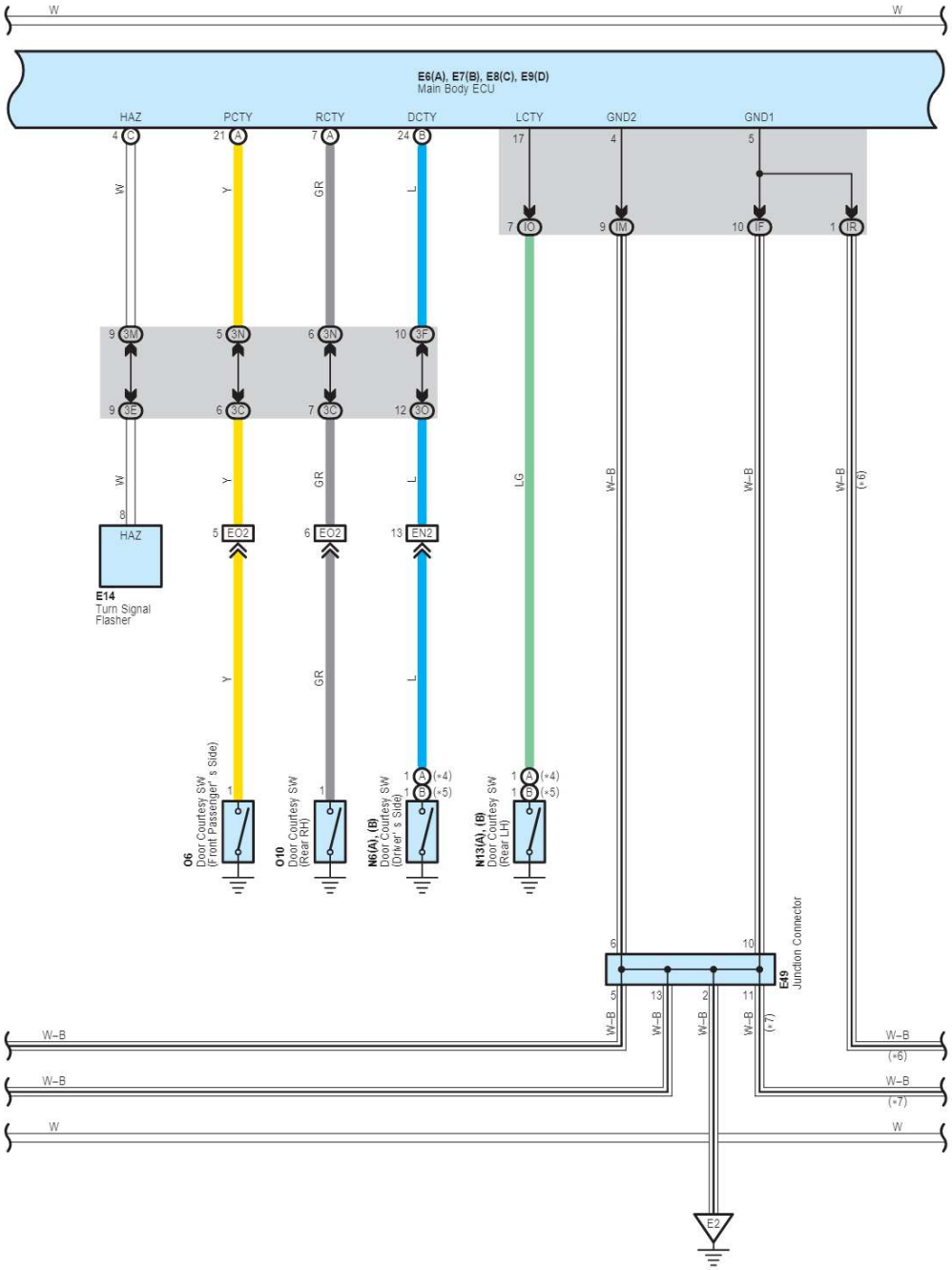
Smart Key System

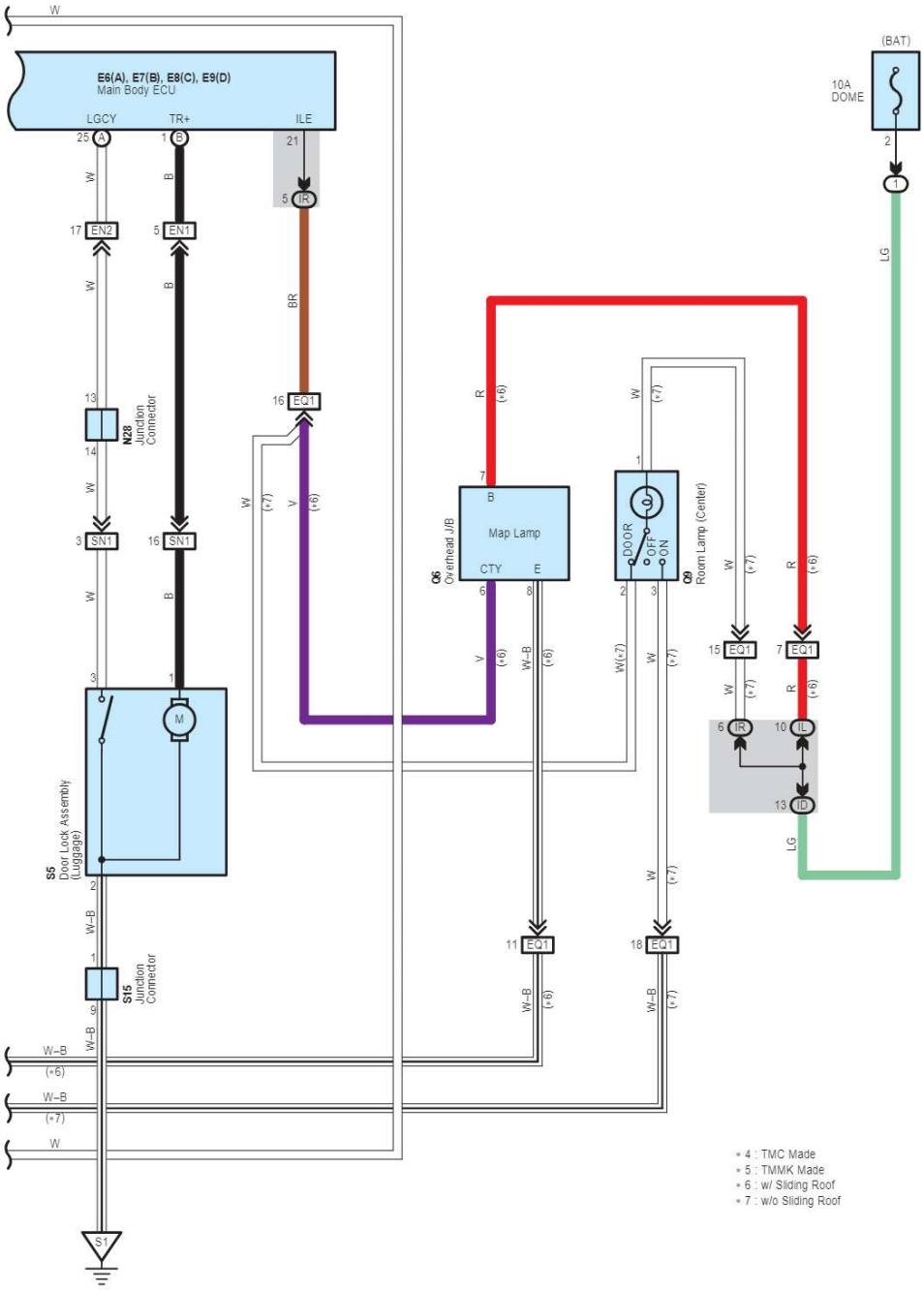



W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
TKUL
TSW
(BAT)
10A
DOME
P
G
LG
R
O
W–B
Y
17 EN1
19 EN2
8 EN2
12 AE6
14 SN1
5 SN1
4 SN1
13 ID
7 IF
12 3L
12 3H
1 4A
1 4E
2 4E
2 3F
3 3N
S9
Luggage Electrical Key SW
S8
Luggage Compartment Door
Lock Cylinder
17 HE2
17 IE2
E49
Junction
Connector
S15
Junction Connector
E2
S1


W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HORN
ACTD
LSWD
LSWP
ACT+
25
11 1D
5 B
9 B
27 A
1
2 1K
GR
L
LG
B
S-HORN Relay
HORN Relay
7.5A S-HORN
10A HORN
LG
L
W
11 1D
5 1A
1 1G
6 1B
10 1D
24 IE2
9 IE2
Y
Y
L
W
B
B
R
8
4
GR
M
1
A23
Security Horn
1
A4
Horn (Low)
1
A3
Horn (High)
I7
Door Lock Assembly
(Driver' s Side)
7
1
W-B
W
17 IE2
25 IE2
W-B
GR
W-B
W


W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LSWL
ACT–
LSWR
20
3
5 A
1 IJ
6 IP
11 IP
5 IP
2 IJ
18 IF
5 IF
4 3O
4 3D
LG
5 3O
5 3I
8 EO1
4 EO1
16 EO1
7 HE1
9 HE2
10 KN1
1 KN1
3 KN1
10 JO1
1 JO1
3 JO1
M8
Door Lock Assembly
(Front Passenger's Side)
K5
Door Lock Assembly
(Rear LH)
J5
Door Lock Assembly
(Rear RH)
17 HE2
25 HE2
4 KN1
4 JO1
W–B
W–B
W
W
2
N29
Junction
Connector
8
O21
Junction
Connector
N1
O1


W
W
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HAZ
PCTY
RCTY
DCTY
LCTY
GND2
GND1
4 C
21 A
7 A
24 B
17
4
5
7 IO
9 IM
10 IF
1 IR
W
Y
GR
L
LG
W–B
9 3M
5 3N
6 3N
10 3F
9 3E
6 3C
7 3C
12 3O
8
HAZ
E14
Turn Signal Flasher
5 EO2
6 EO2
13 EN2
(*6)
O6
Door Courtesy SW (Front Passenger's Side)
O10
Door Courtesy SW (Rear RH)
N6(A), (B)
Door Courtesy SW (Driver's Side)
N13(A), (B)
Door Courtesy SW (Rear LH)
1 A (*4)
1 B (*5)
6
10
E49
Junction Connector
5
13
2
11
(*7)
(*6)
(*7)
E2


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LGCY
TR+
ILE
(BAT)
10A
DOME
Map Lamp
CTY
Overhead J/B
Room Lamp (Center)
DOOR
OFF
ON
Door Lock Assembly
(Luggage)
Junction
Connector
* 4 : TMC Made
* 5 : TMMK Made
* 6 : w/ Sliding Roof
* 7 : w/o Sliding Roof

Smart Key System

System Outline

* Steering lock

Receiving signals from the power SW and the key, the certification ECU sends instruction for locking and unlocking the steering lock to the steering lock ECU (Built in the steering lock) in order to activate the motor. The steering lock ECU detects position of the lock bar and stops the motor at the specified position.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A3		48 (2GR–FE)	E8	C	56	N11		60
A4		48 (2GR–FE)	E9	D	56	N13	A	60
A5		48 (2GR–FE)	E14		56		B	60
A19		59	E41	B	57	N25		60
A23		48 (2GR–FE)	E42	A	57	N28		60
A25	C	48 (2GR–FE)	E43	B	57	N29		60
A26	A	48 (2GR–FE)	E44	C	57	O6		60
A40	A	59	E49		57	O10		60
A41	A	59	E50		57	O18		60
A42	B	59	E51		57	O19		60
A43		49 (2GR–FE)	E52		57	O21		60
A48		49 (2GR–FE)	E56		57	Q6		61
A55	A	49 (2GR–FE)	E58	A	57	Q9		61
A60	B	49 (2GR–FE)	E59	B	57	S5		61
C1	A	50 (2GR–FE)	F1	A	58	S8		61
C3	A	50 (2GR–FE)	F2	B	58	S9		61
C50		51 (2GR–FE)	F3		58	S14		61
C55	B	51 (2GR–FE)	H8		61	S15		61
C56		51 (2GR–FE)	I7		61	W1		61
C57		51 (2GR–FE)	J5		61	W2		61
D1	C	51 (2GR–FE)	K5		61	X1		61
E6	A	56	N6	A	60	X2		61
E7	B	56		B	60			

⬭ : 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**

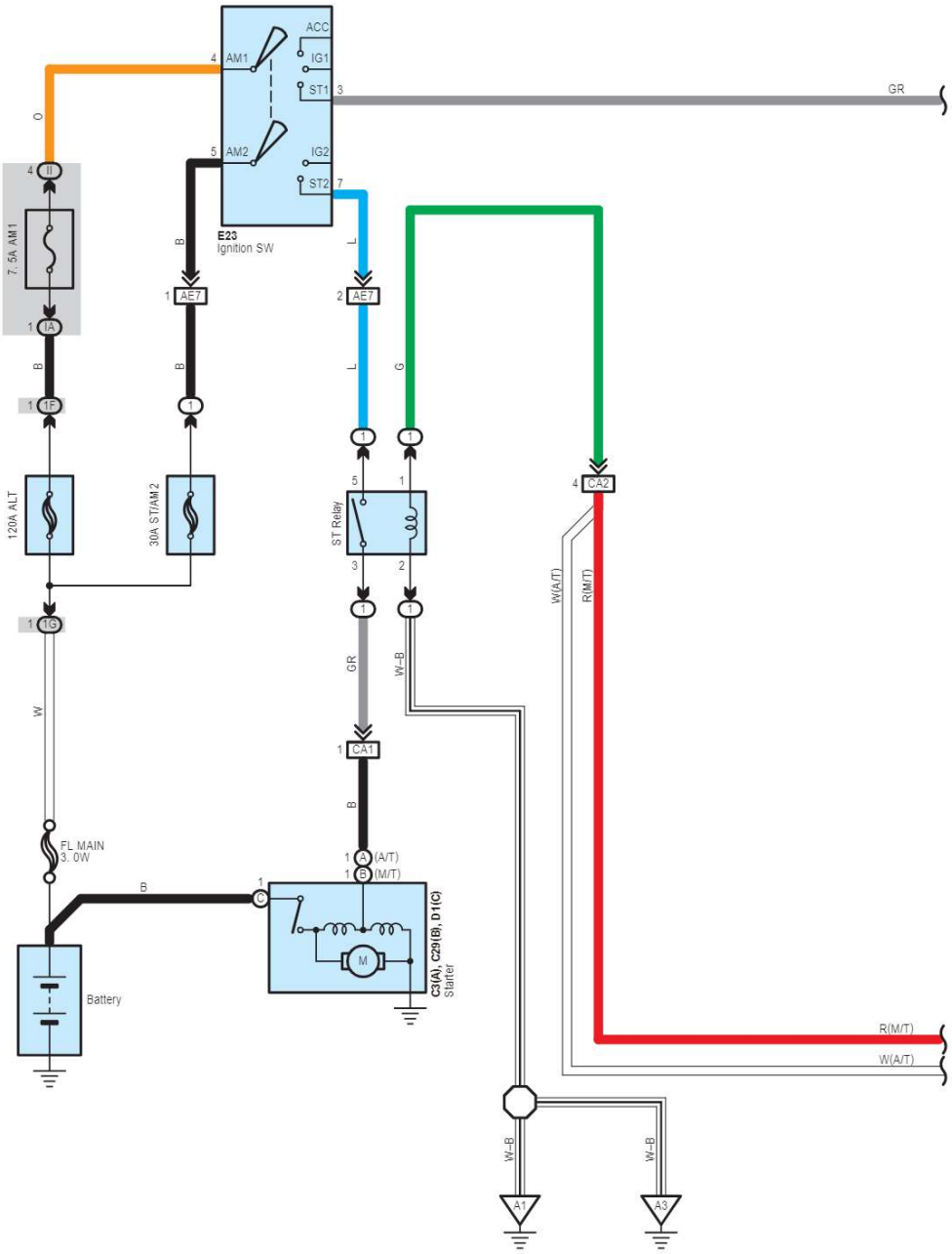
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1G	22	
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3F		
3G		
3H		
3I		
3J		
3L		
3M		
3N		
3O		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3R		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
4E		
4F		
4G		
4H		
4K		
4L		
4M		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		
IJ	30	
IK		
IL		
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IP		
IR	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

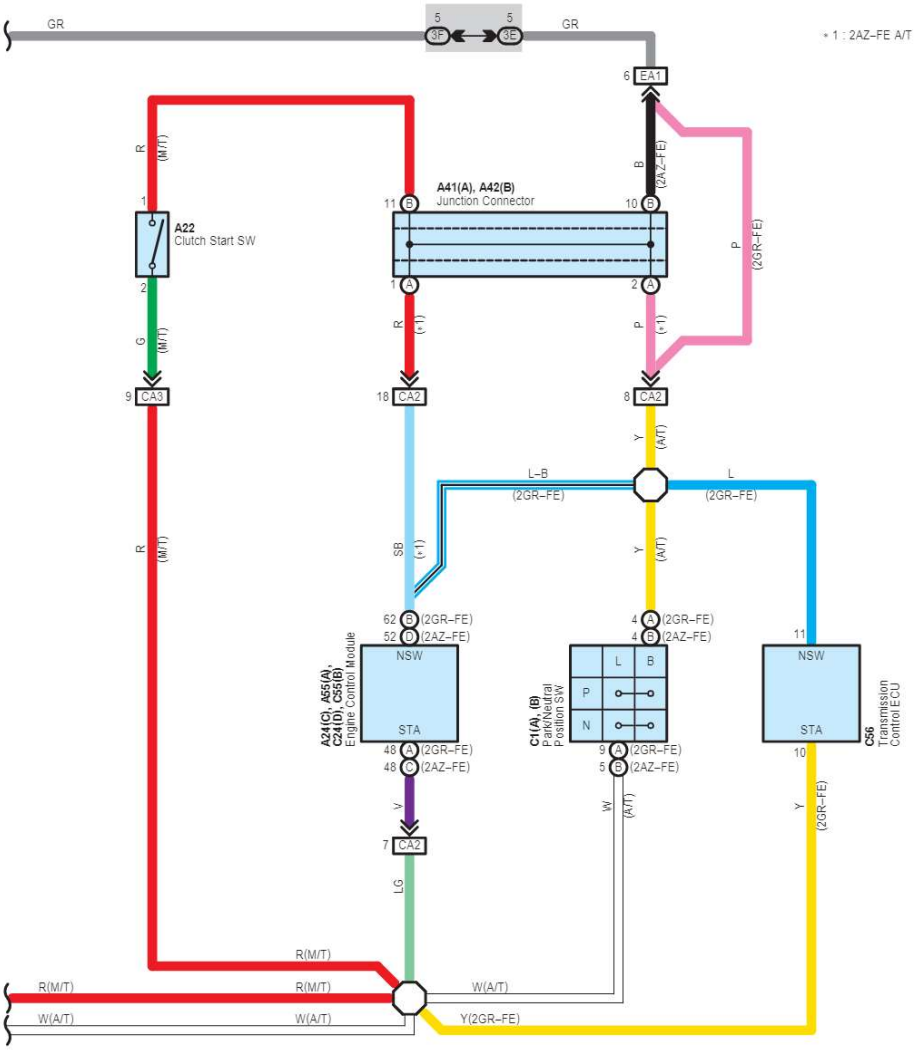
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA2		
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EN2		
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EO2		
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
HW1	67	Front Door RH Wire and Electrical Key Wire Harness RH (Inside of the Front Door RH)
IE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
IX1	67	Front Door LH Wire and Electrical Key Wire Harness LH (Inside of the Front Door LH)
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

: **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
A3	66	Left Cowl Side Panel
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel
O1	67	Right Rear Quarter Panel
S1	67	Lower Back Panel Center


ACC
AM1
IG1
ST1
GR
AM2
IG2
ST2
E23
Ignition SW
7. 5A AM1
AE7
AE7
1A
1F
1
1
120A ALT
30A ST/AM2
ST Relay
CA2
W(A/T)
R(M/T)
1G
GR
W–B
CA1
W
B
FL MAIN
3. 0W
A (A/T)
B (M/T)
C
M
C3(A), C29(B), D1(C)
Starter
Battery
R(M/T)
W(A/T)
W–B
W–B
A1
A3


GR
5
3F
5
3E
GR
* 1 : 2AZ-FE A/T
6 EA1
R (M/T)
B (2AZ-FE)
A22
Clutch Start SW
A41(A), A42(B)
Junction Connector
11 B
10 B
1 A
2 A
P (2GR-FE)
G (M/T)
R (*1)
P (*1)
9 CA3
18 CA2
8 CA2
Y (A/T)
L-B (2GR-FE)
L (2GR-FE)
R (M/T)
SB (*1)
Y (A/T)
62 B (2GR-FE)
52 D (2AZ-FE)
4 A (2GR-FE)
4 B (2AZ-FE)
11
A24(C), A55(A), C24(D), C55(B)
Engine Control Module
NSW
STA
C1(A), (B)
Park/Neutral Position SW
L
B
P
N
NSW
STA
C56
Transmission Control ECU
48 A (2GR-FE)
48 C (2AZ-FE)
9 A (2GR-FE)
5 B (2AZ-FE)
10
V
W (A/T)
Y (2GR-FE)
7 CA2
LG
R(M/T)
R(M/T)
R(M/T)
W(A/T)
W(A/T)
W(A/T)
Y(2GR-FE)

Starting without Smart Key System

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A22		59	C1	B	54 (2AZ–FE)	C56		51 (2GR–FE)
A24	C	52 (2AZ–FE)	C3	A	50 (2GR–FE)	D1	C	51 (2GR–FE)
A41	A	59			54 (2AZ–FE)			55 (2AZ–FE)
A42	B	59	C24	D	55 (2AZ–FE)	E23		56
A55	A	49 (2GR–FE)	C29	B	55 (2AZ–FE)			
C1	A	50 (2GR–FE)	C55	B	51 (2GR–FE)			

: 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

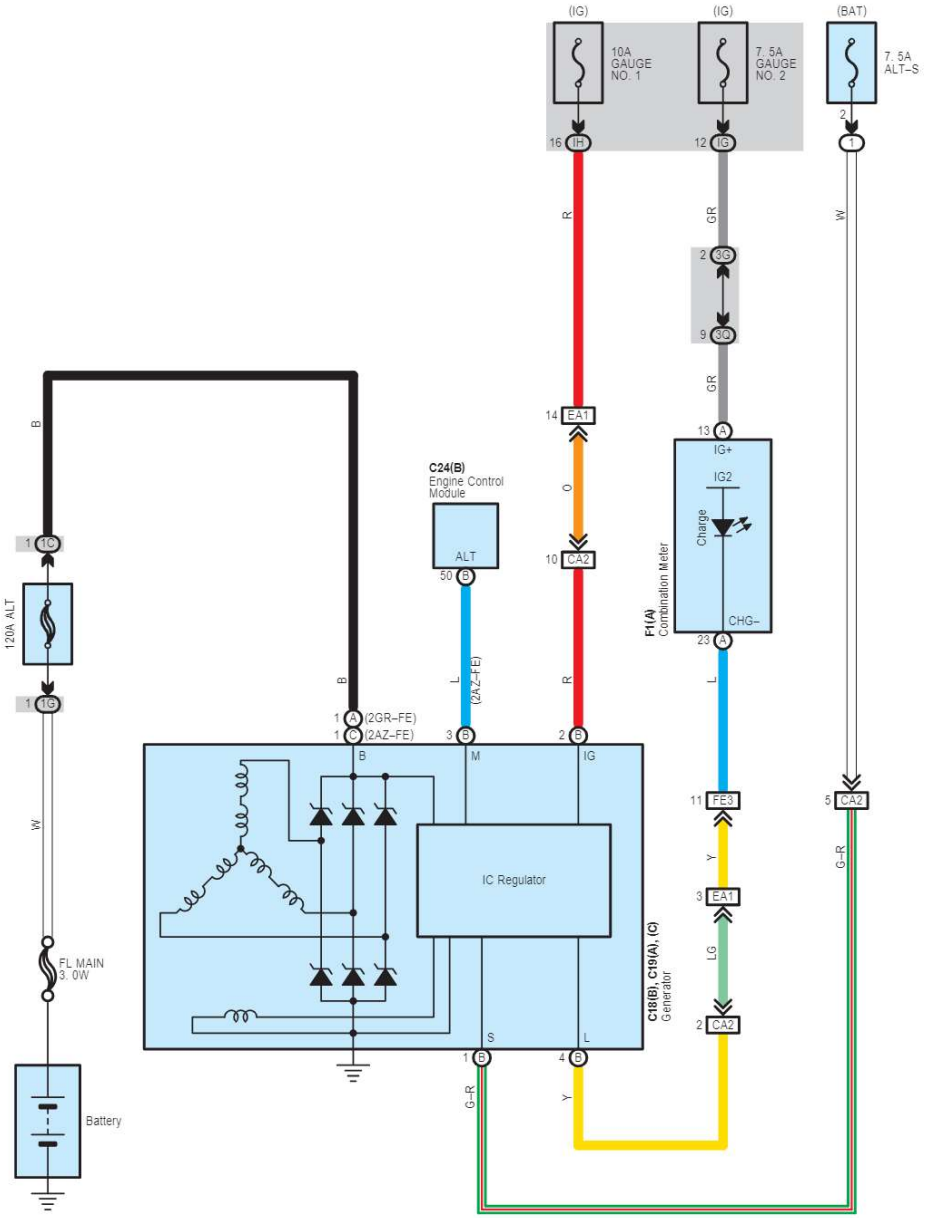
Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1G		
3E	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
II	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
CA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA2	64 (2GR–FE)	
	65 (2AZ–FE)	
CA3	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel


(IG)
10A GAUGE NO. 1
(IG)
7. 5A GAUGE NO. 2
(BAT)
7. 5A ALT–S
16 IH
12 IG
2
1
R
GR
W
2 3G
9 3Q
GR
14 EA1
13 A
IG+
IG2
Charge
CHG–
F1(A) Combination Meter
23 A
C24(B) Engine Control Module
ALT
50 B
O
10 CA2
L
(2AZ–FE)
R
L
11 FE3
5 CA2
Y
3 EA1
G–R
LG
2 CA2
1 1C
120A ALT
1 1G
B
W
FL MAIN 3. 0W
Battery
1 A (2GR–FE)
1 C (2AZ–FE)
3 B
2 B
B
M
IG
IC Regulator
S
L
1 B
4 B
G–R
Y
C18(B), C19(A), (C) Generator

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
C18	B	50 (2GR–FE)	C19	A	50 (2GR–FE)	C24	B	55 (2AZ–FE)
		54 (2AZ–FE)		C	54 (2AZ–FE)	F1	A	58

⬭ : **Relay Blocks**

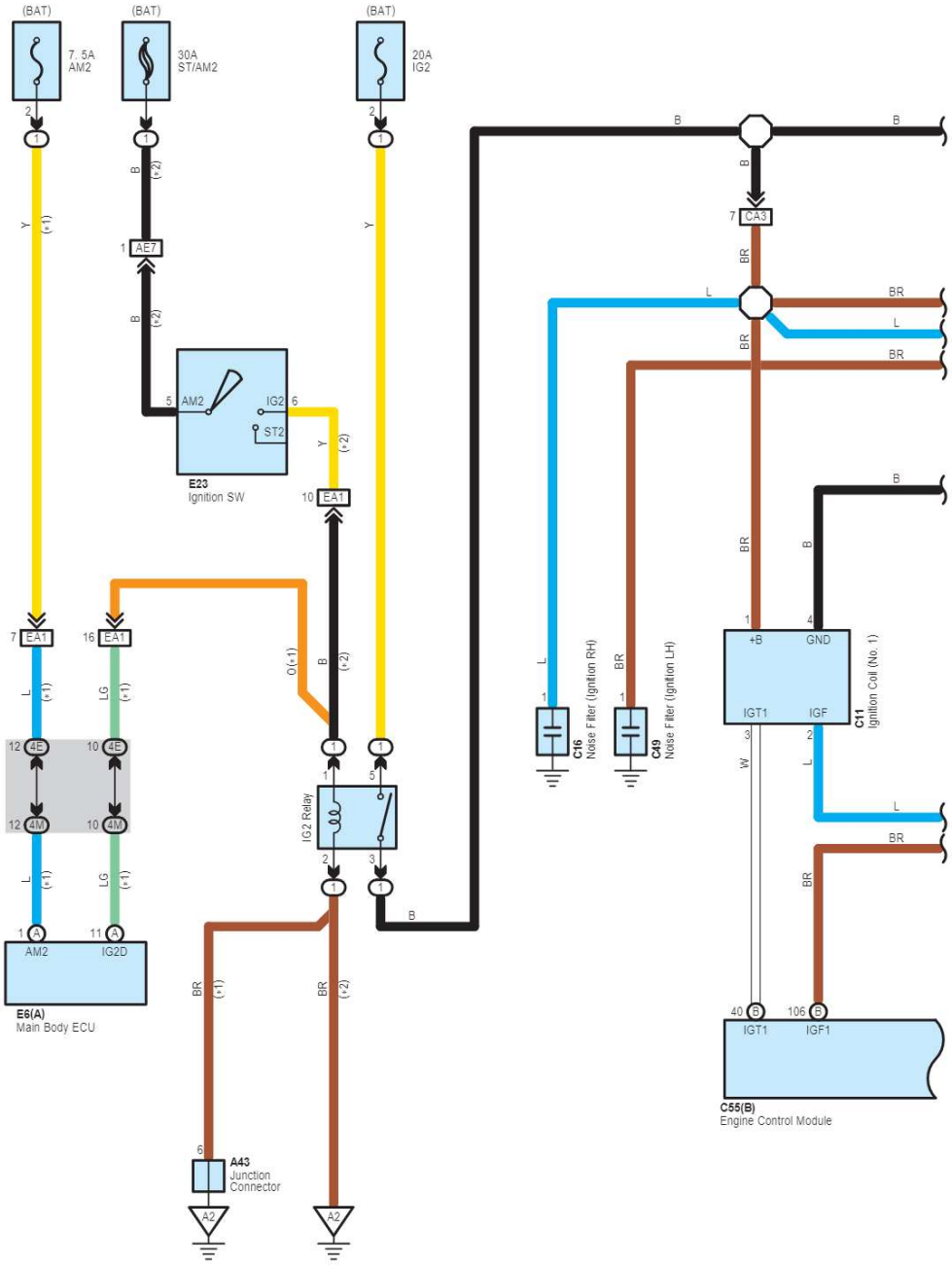
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

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

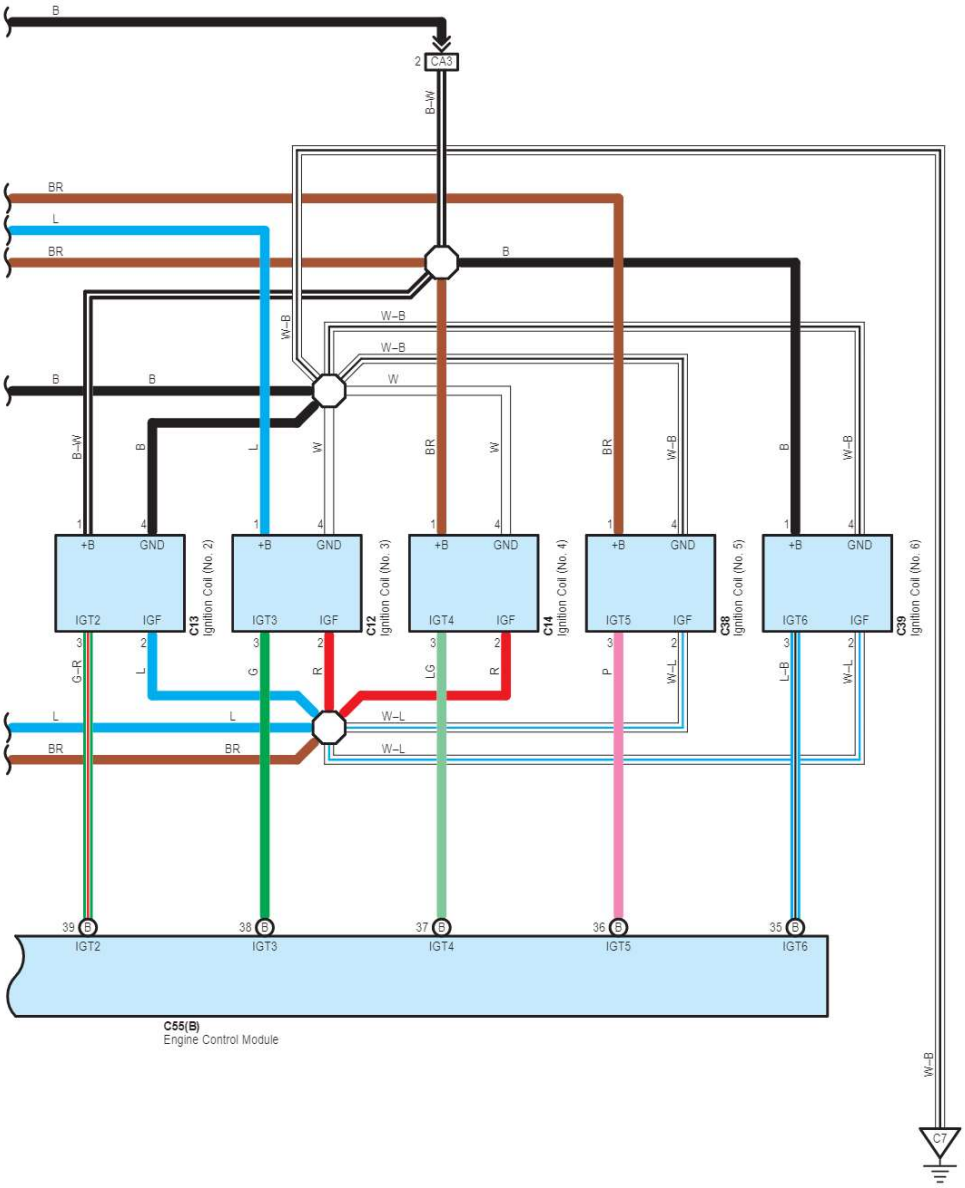
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	22	Engine Wire and Engine Room J/B (Engine Compartment Left)
1G	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3G	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
IG	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)


(BAT)
7. 5A
AM2
(BAT)
30A
ST/AM2
(BAT)
20A
IG2
E23
Ignition SW
AM2
IG2
ST2
IG2 Relay
E6(A)
Main Body ECU
AM2
IG2D
A43
Junction
Connector
C16
Noise Filter (Ignition RH)
C49
Noise Filter (Ignition LH)
C11
Ignition Coil (No. 1)
+B
GND
IGT1
IGF
C55(B)
Engine Control Module
IGT1
IGF1

* 1 : w/ Smart Key System
* 2 : w/o Smart Key System



Ignition for 2GR–FE

○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
A43	49 (2GR–FE)	C14	50 (2GR–FE)	C49		51 (2GR–FE)
C11	50 (2GR–FE)	C16	50 (2GR–FE)	C55	B	51 (2GR–FE)
C12	50 (2GR–FE)	C38	51 (2GR–FE)	E6	A	56
C13	50 (2GR–FE)	C39	51 (2GR–FE)	E23		56

⬭ : **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**

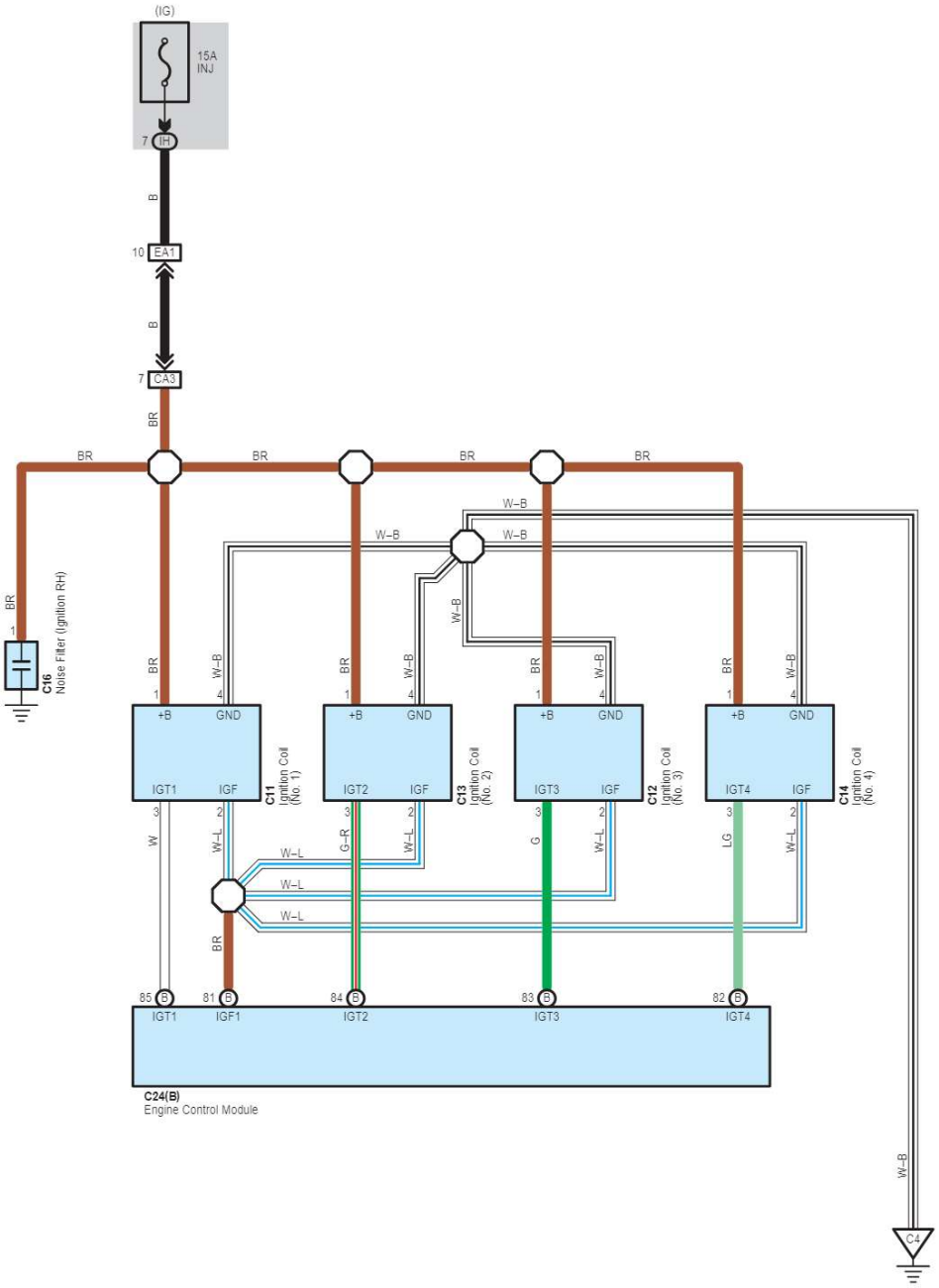
Code	See Page	Junction Block and Wire Harness (Connector Location)
4E	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4M		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A2	64 (2GR–FE)	Front Left Fender
C7	64 (2GR–FE)	Left Side of the Cylinder Block


(IG)
15A
INJ
7 IH
B
10 EA1
B
7 CA3
BR
BR
BR
BR
BR
W–B
W–B
W–B
W–B
BR
1
C16
Noise Filter (Ignition RH)
BR
W–B
BR
W–B
BR
W–B
BR
W–B
1
4
+B
GND
IGT1
IGF
C11
Ignition Coil
(No. 1)
IGT2
C13
Ignition Coil
(No. 2)
IGT3
C12
Ignition Coil
(No. 3)
IGT4
C14
Ignition Coil
(No. 4)
3
2
W
W–L
G–R
G
LG
W–L
W–L
W–L
BR
85 B
IGT1
81 B
IGF1
84 B
IGT2
83 B
IGT3
82 B
IGT4
C24(B)
Engine Control Module
W–B
C4

○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
C11	54 (2AZ–FE)	C13	54 (2AZ–FE)	C16		54 (2AZ–FE)
C12	54 (2AZ–FE)	C14	54 (2AZ–FE)	C24	B	55 (2AZ–FE)

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

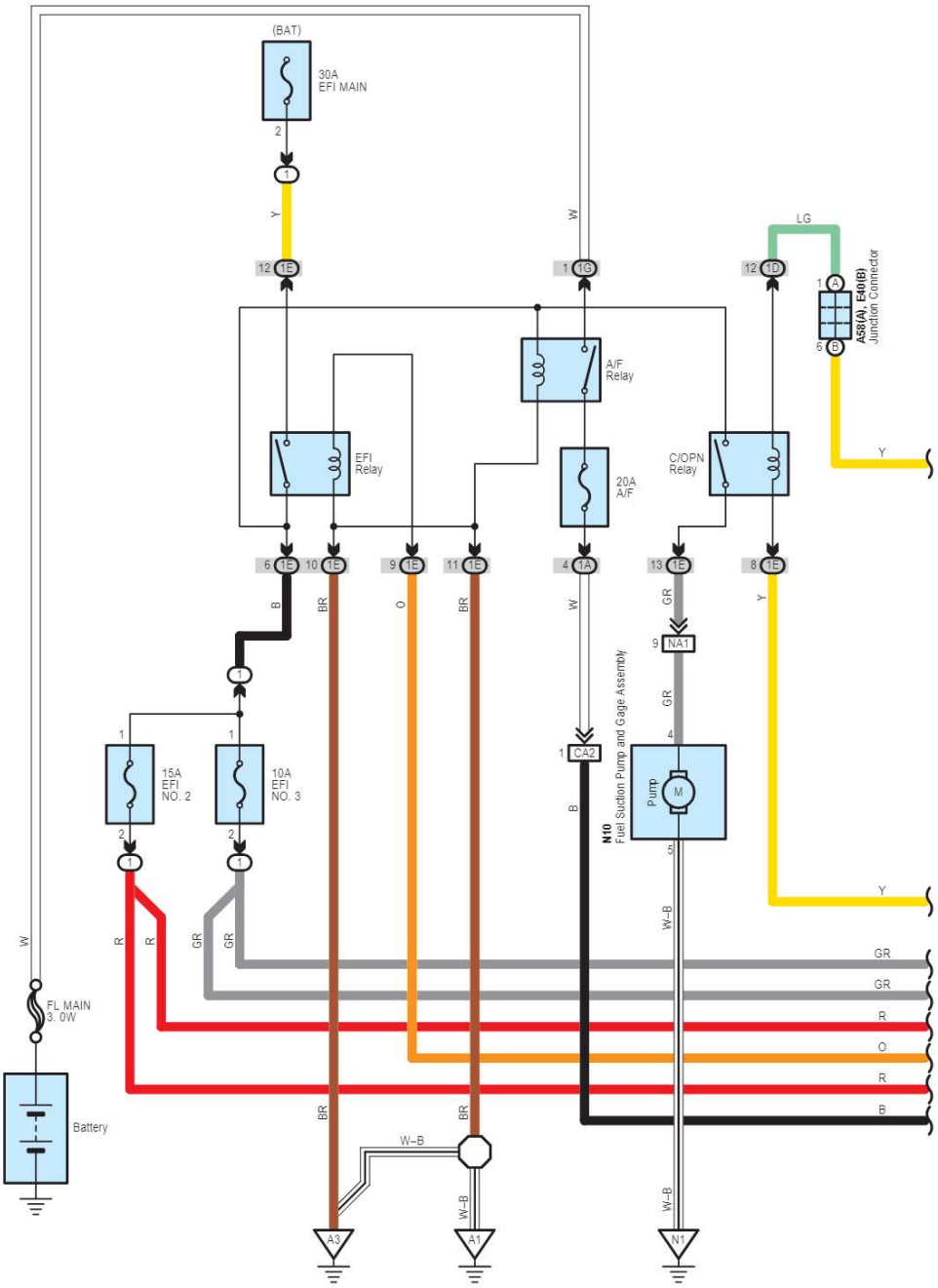
Code	See Page	Junction Block and Wire Harness (Connector Location)
IH	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

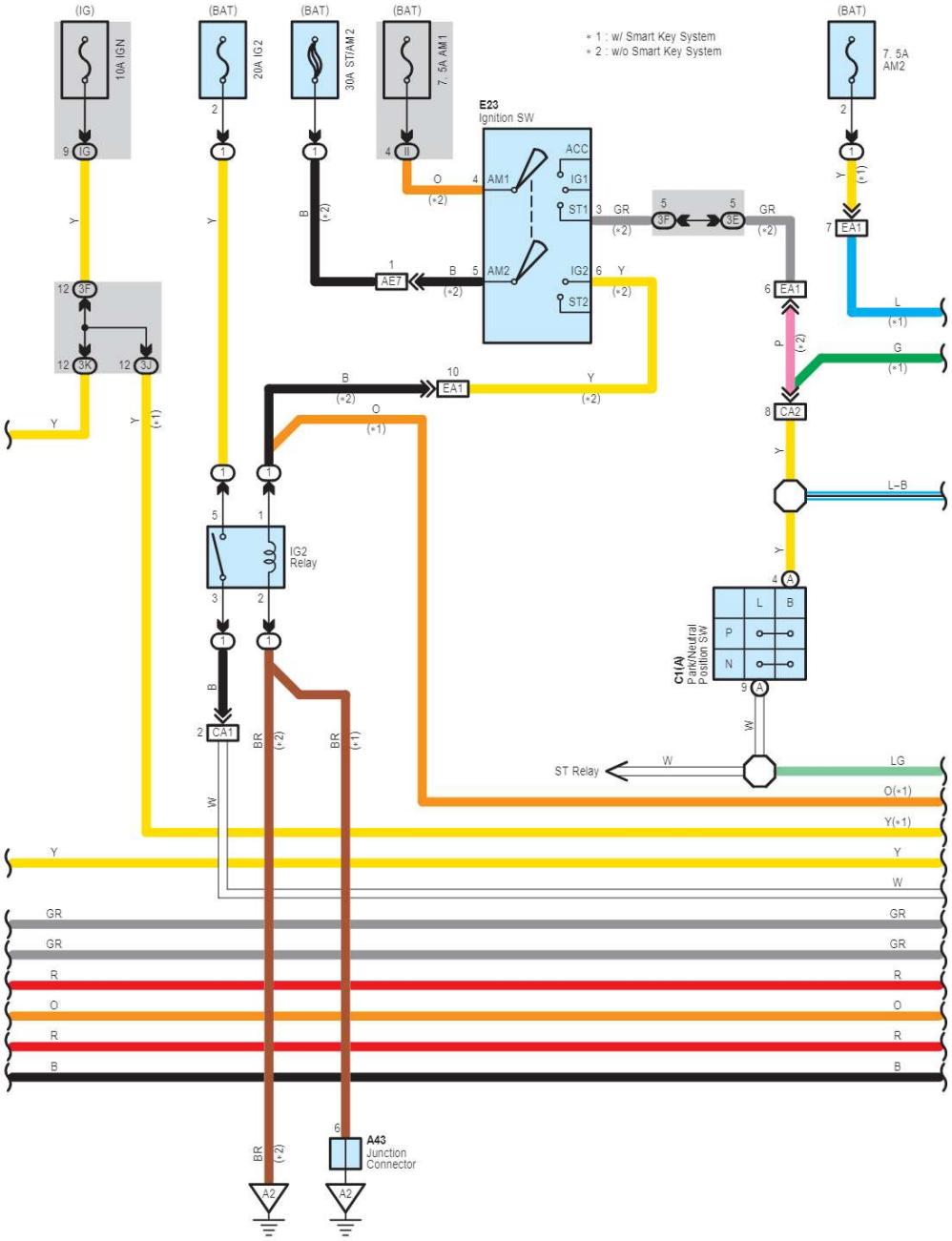
▭ : **Connector Joining Wire Harness and Wire Harness**

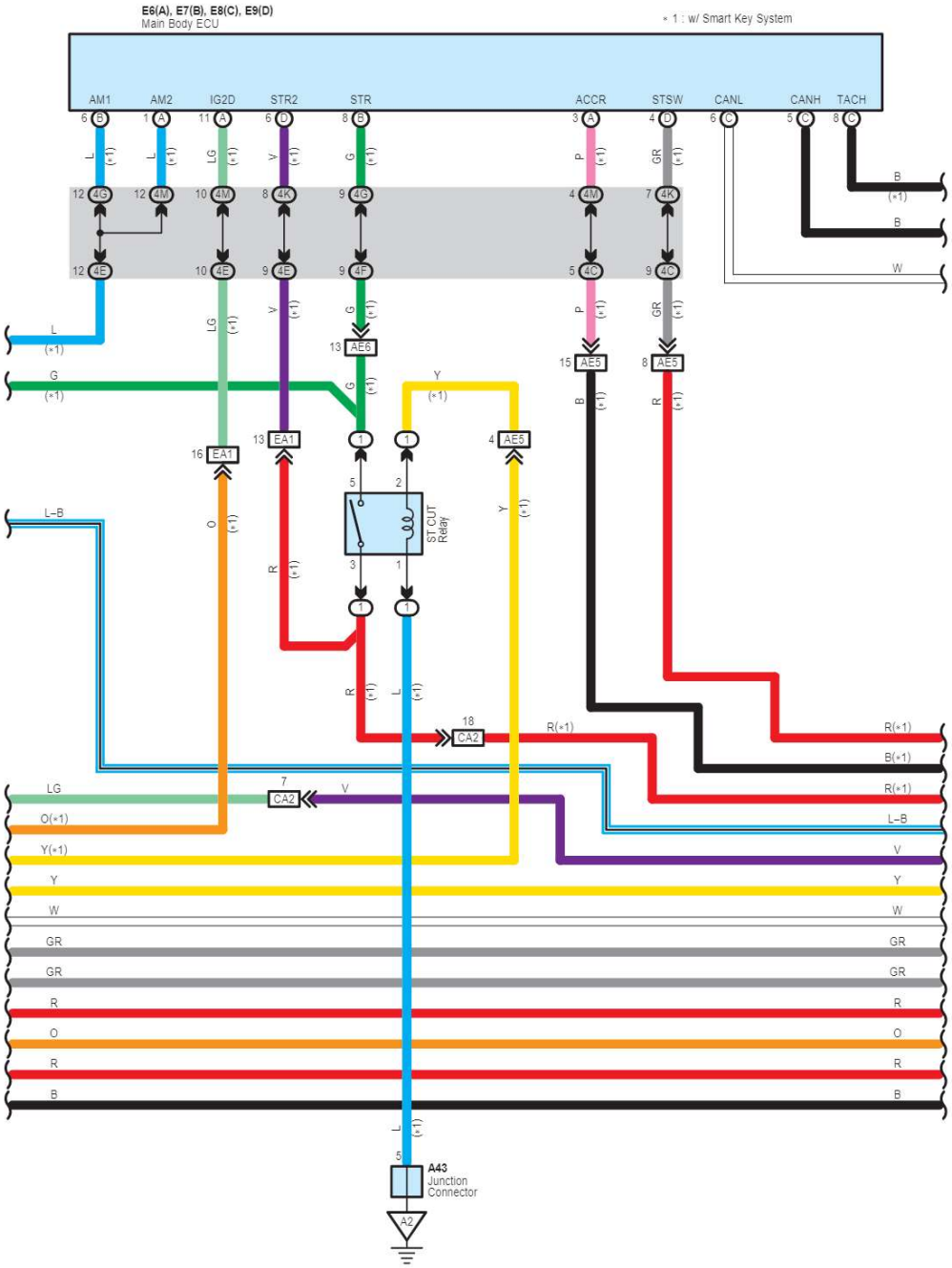
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

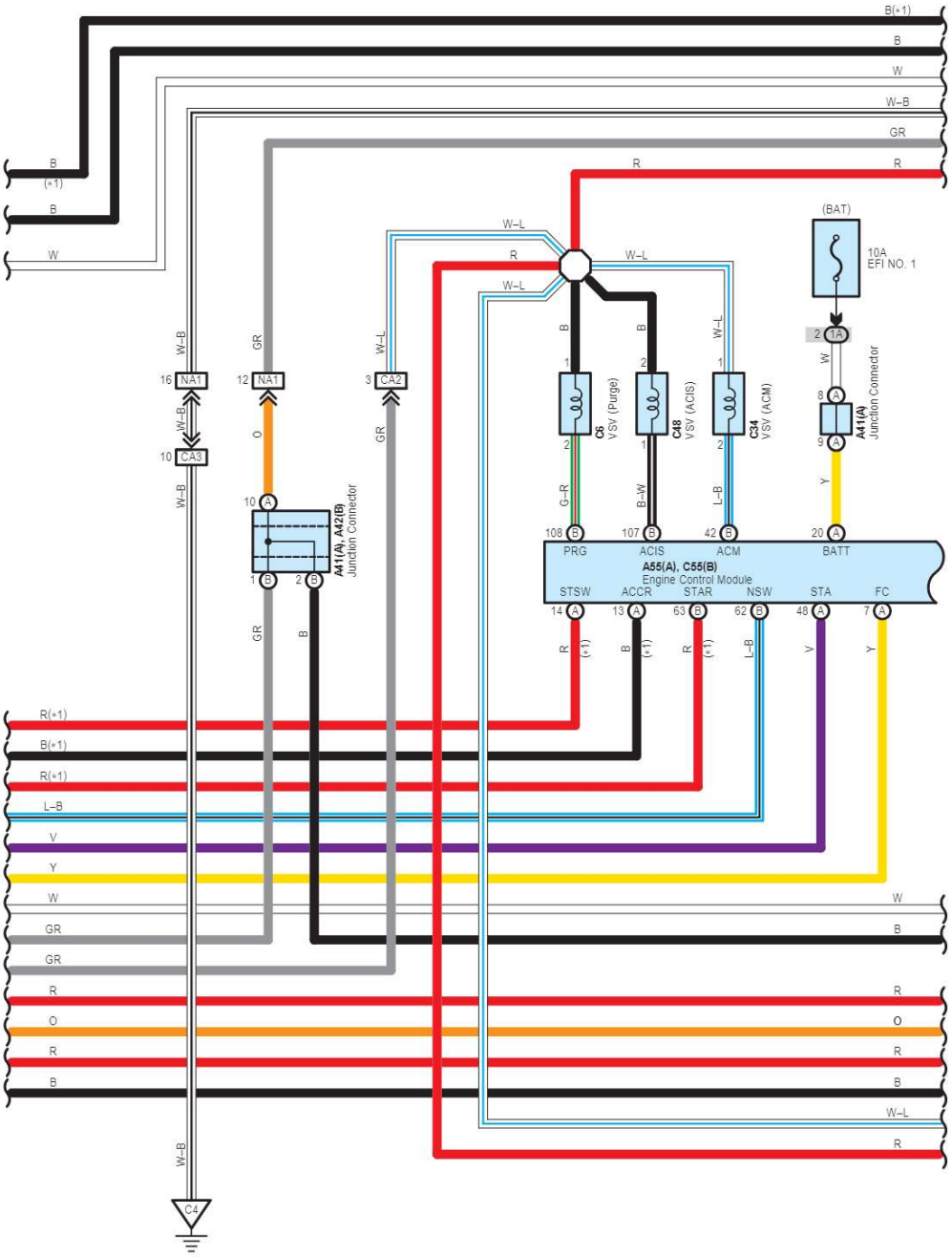
▽ : **Ground Points**

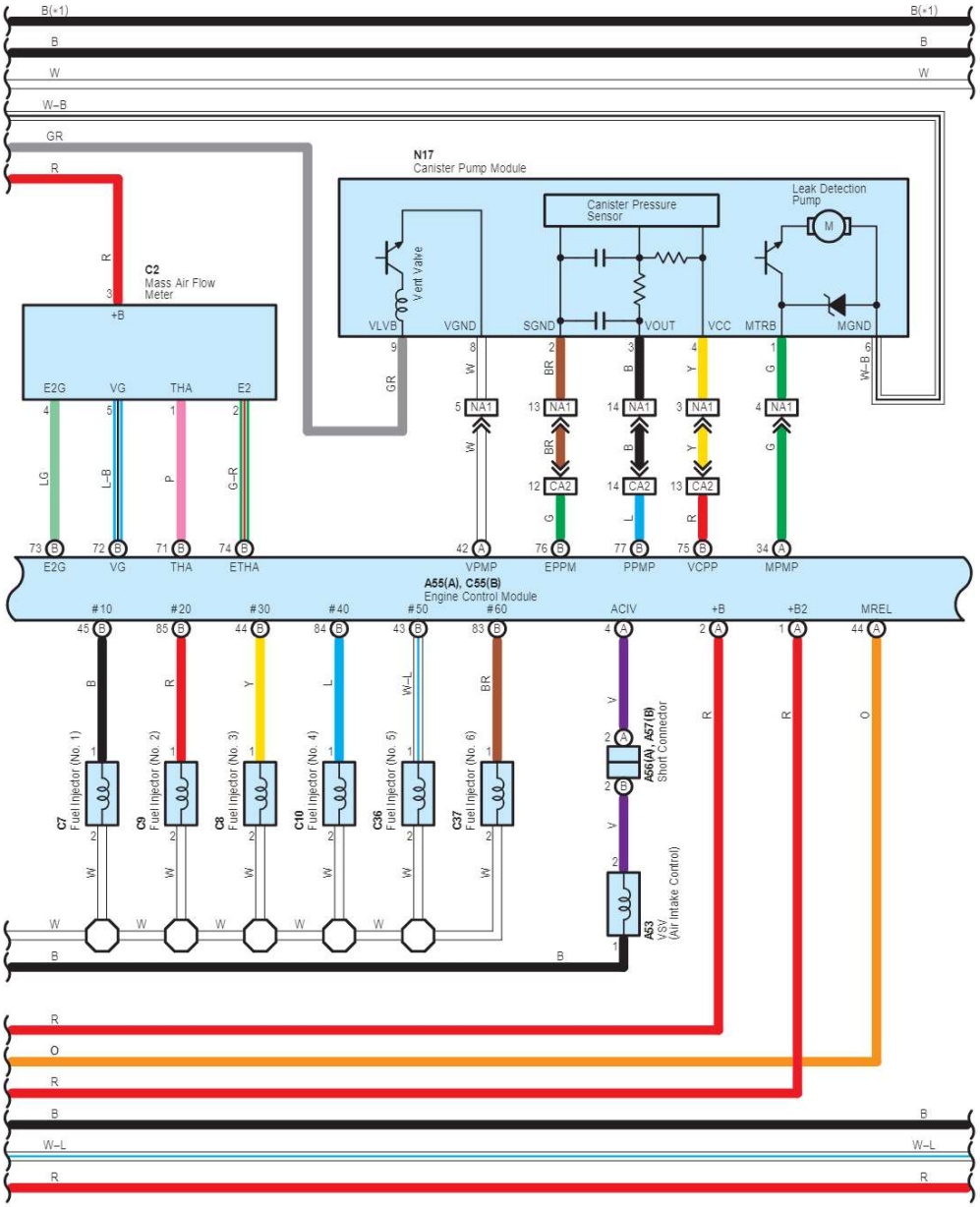
Code	See Page	Ground Points Location
C4	65 (2AZ–FE)	Cylinder Block

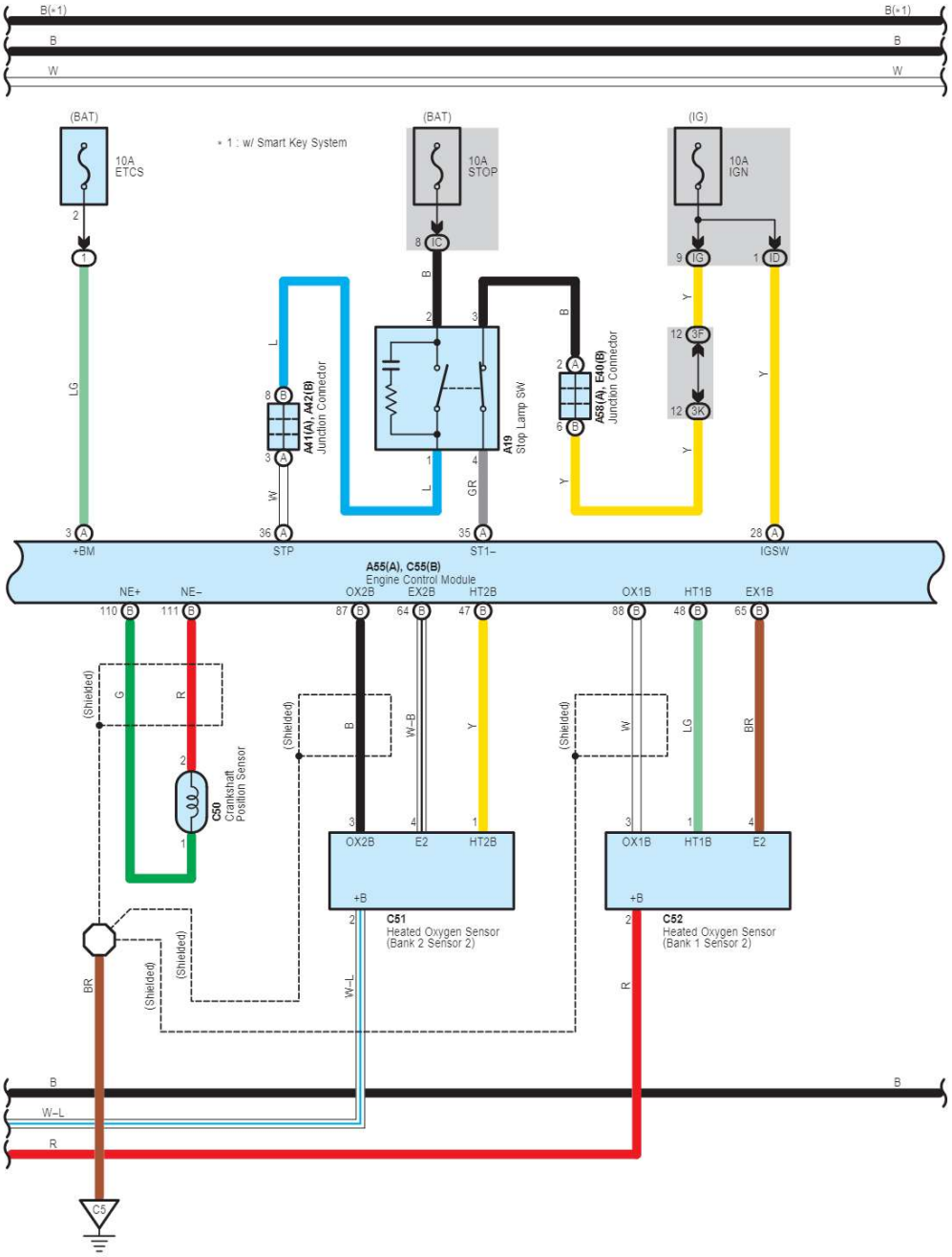

(BAT)
30A
EFI MAIN
2
1
Y
W
12 1E
1 1G
12 1D
LG
1 A
6 B
A58(A), E40(B)
Junction Connector
Y
A/F
Relay
EFI
Relay
20A
A/F
C/OPN
Relay
6 1E
10 1E
9 1E
11 1E
4 1A
13 1E
8 1E
B
BR
O
BR
W
GR
Y
9 NA1
GR
4
1 CA2
B
N10
Fuel Suction Pump and Gage Assembly
Pump
M
5
W–B
Y
1
15A
EFI
NO. 2
1
10A
EFI
NO. 3
2
2
R
R
GR
GR
GR
GR
R
O
R
B
W
FL MAIN
3. 0W
Battery
BR
BR
W–B
W–B
W–B
A3
A1
N1

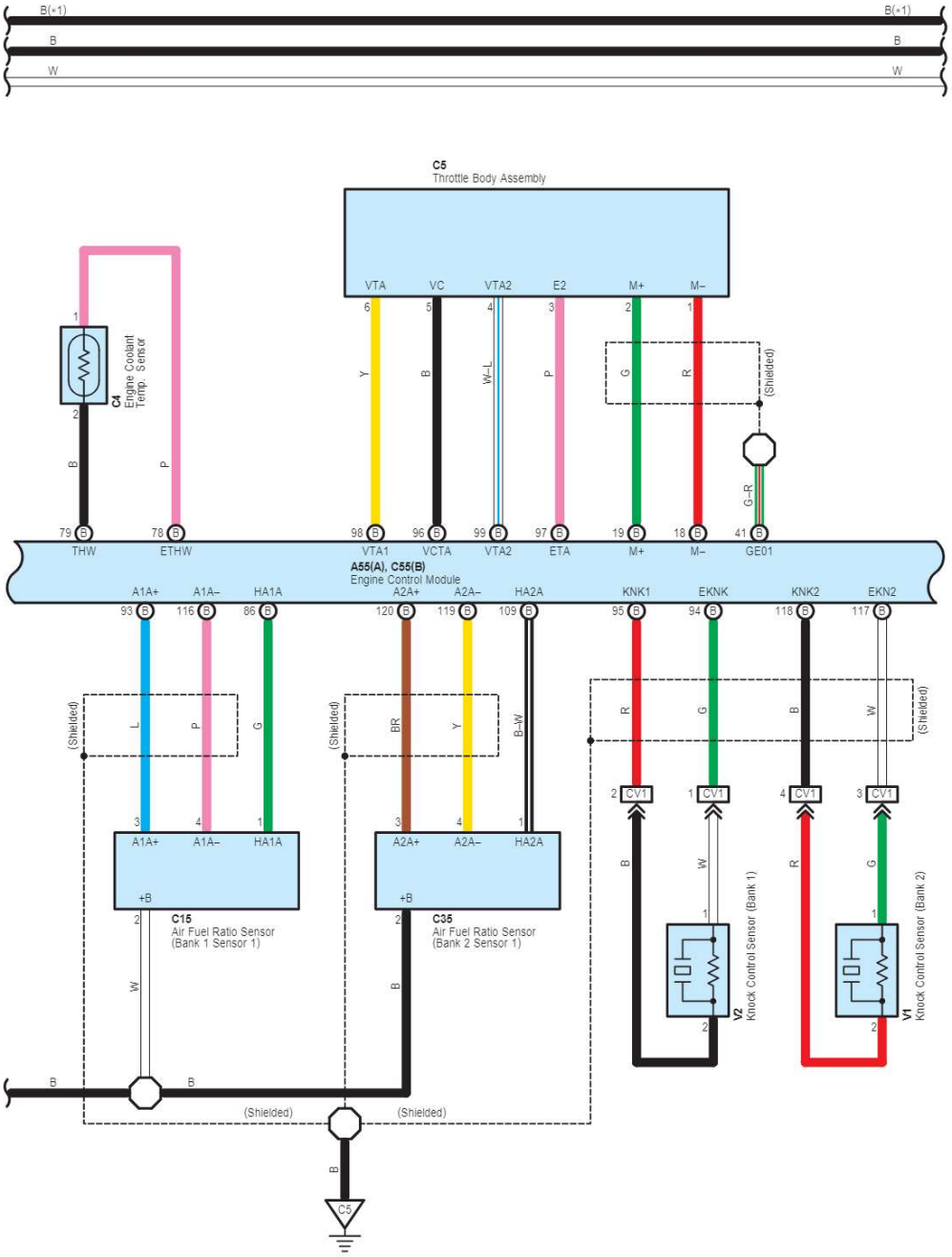

(IG)
10A IGN
(BAT)
20A IG2
(BAT)
30A ST/AM2
(BAT)
7. 5A AM1
(BAT)
7. 5A AM2
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
E23
Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
IG2 Relay
ST Relay
C1(A)
Park/Neutral Position SW
L
B
P
N
A43
Junction Connector
A2
L–B
O(*1)
Y(*1)
LG
W
GR
R
O
B
BR

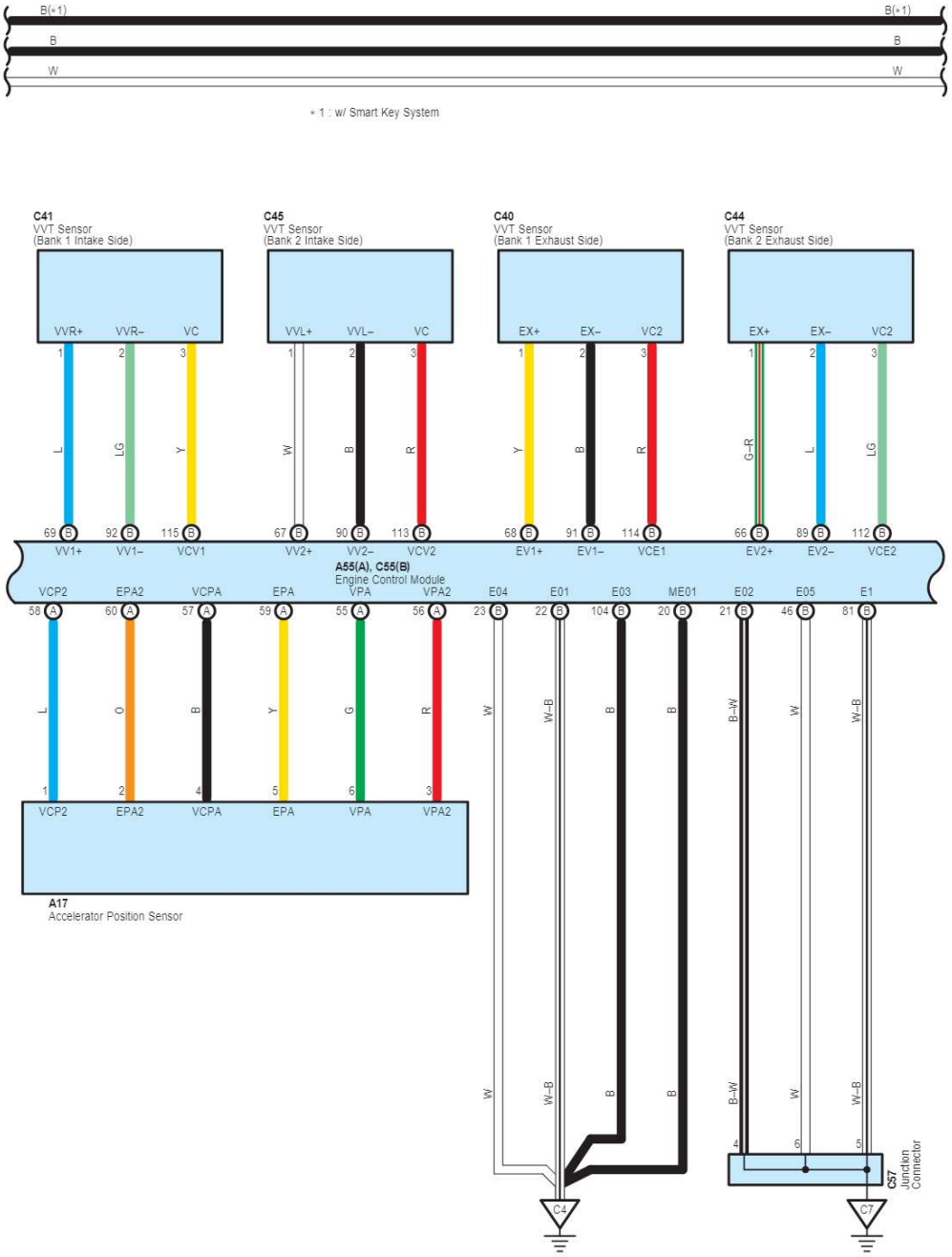

E6(A), E7(B), E8(C), E9(D)
Main Body ECU
* 1 : w/ Smart Key System
AM1
AM2
IG2D
STR2
STR
ACCR
STSW
CANL
CANH
TACH
ST CUT Relay
A43
Junction Connector
A2

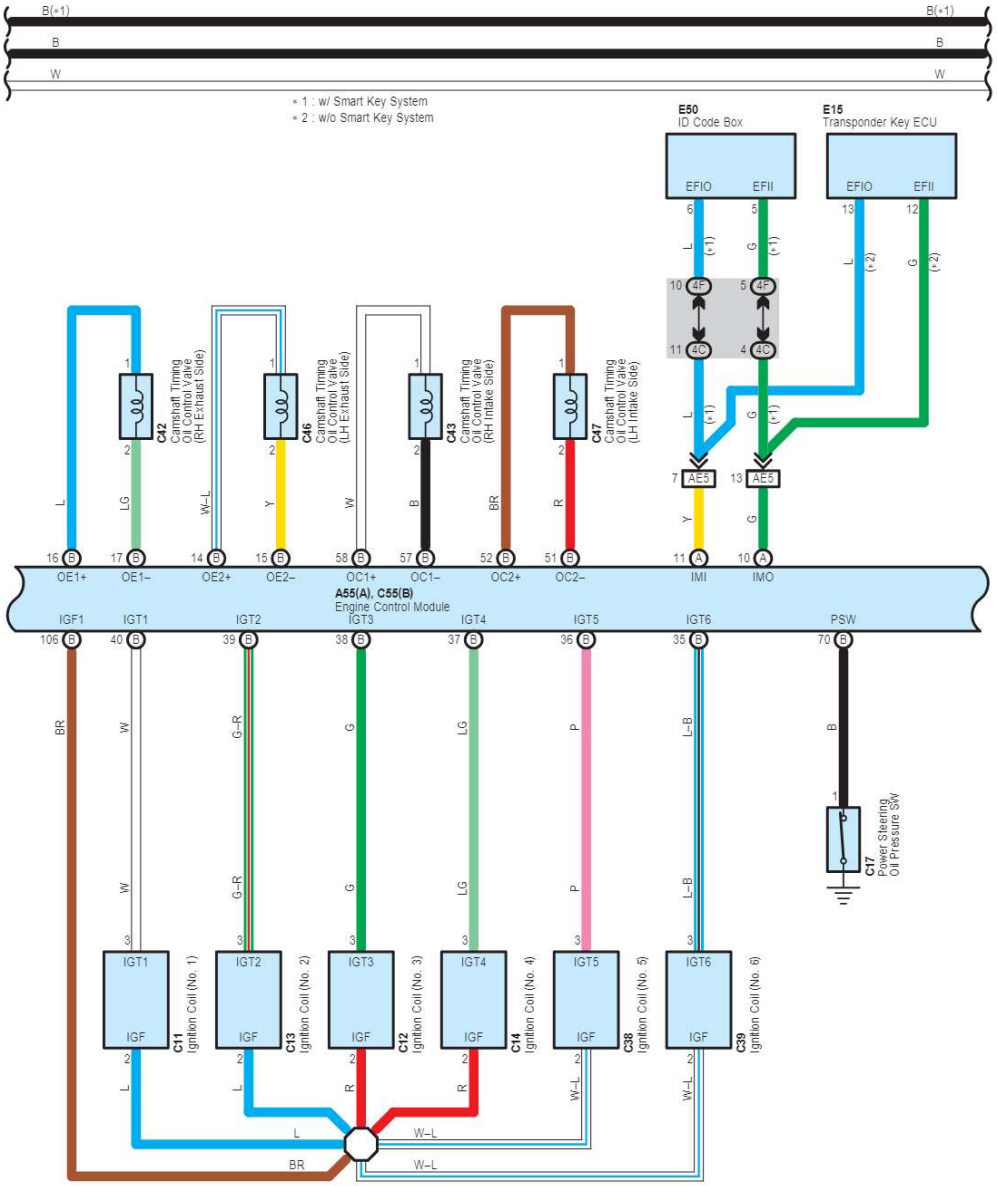

B(*1)
B
W
W–B
GR
R
(BAT)
10A
EFI NO. 1
2 1A
W
8 A
9 A
A41(A)
Junction Connector
Y
20 A
BATT
W–L
B
C6
VSV (Purge)
C48
VSV (ACIS)
C34
VSV (ACM)
G–R
B–W
L–B
108 B
107 B
42 B
PRG
ACIS
ACM
A55(A), C55(B)
Engine Control Module
STSW
ACCR
STAR
NSW
STA
FC
14 A
13 A
63 B
62 B
48 A
7 A
16 NA1
12 NA1
3 CA2
10 CA3
O
10 A
1 B
2 B
A41(A), A42(B)
Junction Connector
L–B
V
C4
R(*1)
B(*1)
R(*1)
L–B
V
Y
W
GR
GR
R
O
R
B
W–L
R

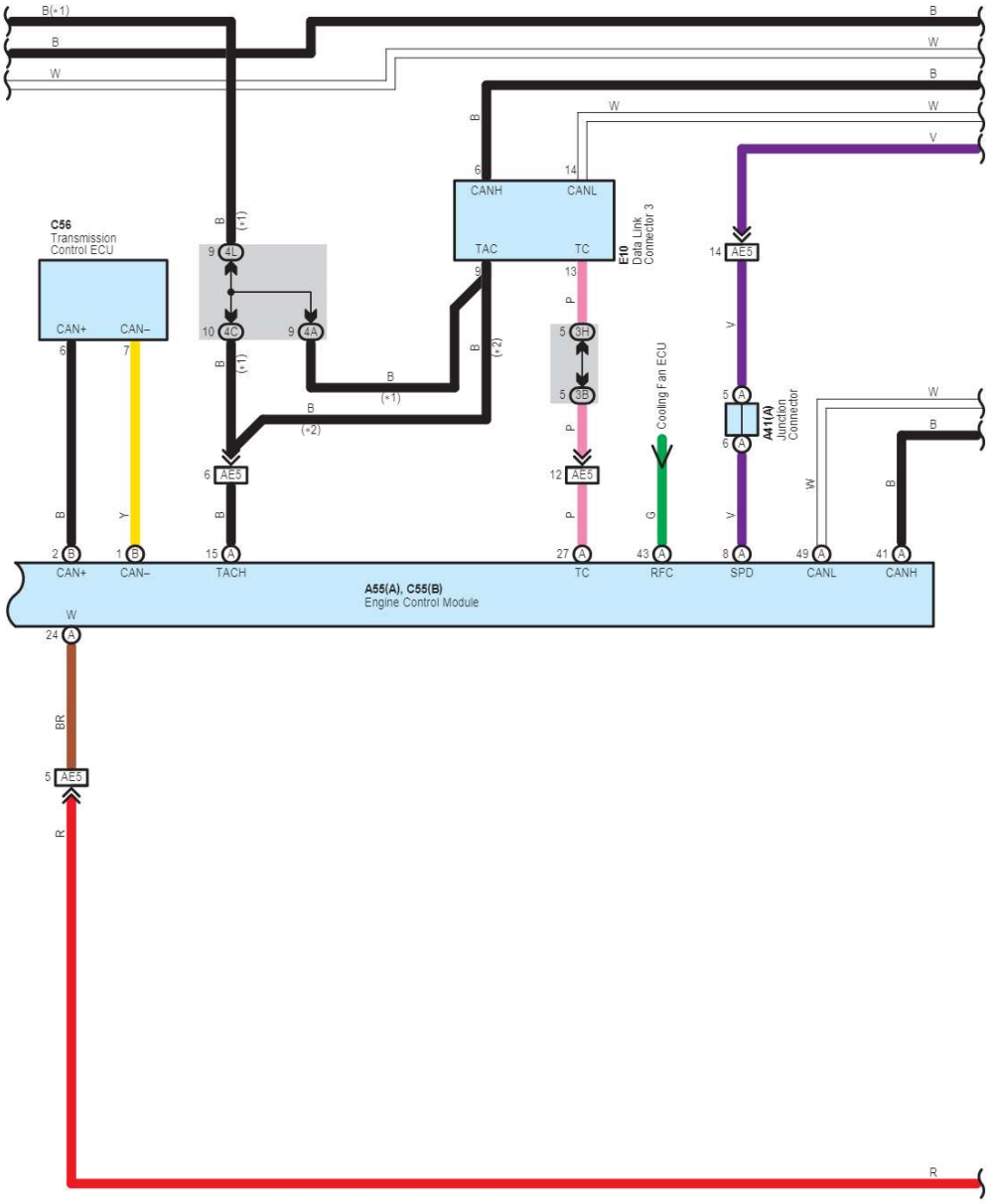

B(+1)
B
W
W–B
GR
R
N17
Canister Pump Module
Canister Pressure Sensor
Leak Detection Pump
Vent Valve
M
C2
Mass Air Flow Meter
+B
VLVB
VGND
SGND
VOUT
VCC
MTRB
MGND
E2G
VG
THA
E2
NA1
CA2
LG
L–B
P
G–R
BR
B
Y
G
L
W–B
VPMP
EPPM
PPMP
VCPP
MPMP
ETHA
A55(A), C55(B)
Engine Control Module
#10
#20
#30
#40
#50
#60
ACIV
+B
+B2
MREL
C7
C9
C8
C10
C36
C37
Fuel Injector (No. 1)
Fuel Injector (No. 2)
Fuel Injector (No. 3)
Fuel Injector (No. 4)
Fuel Injector (No. 5)
Fuel Injector (No. 6)
A56(A), A57(B)
Short Connector
A53
VSV
(Air Intake Control)
O
W–L

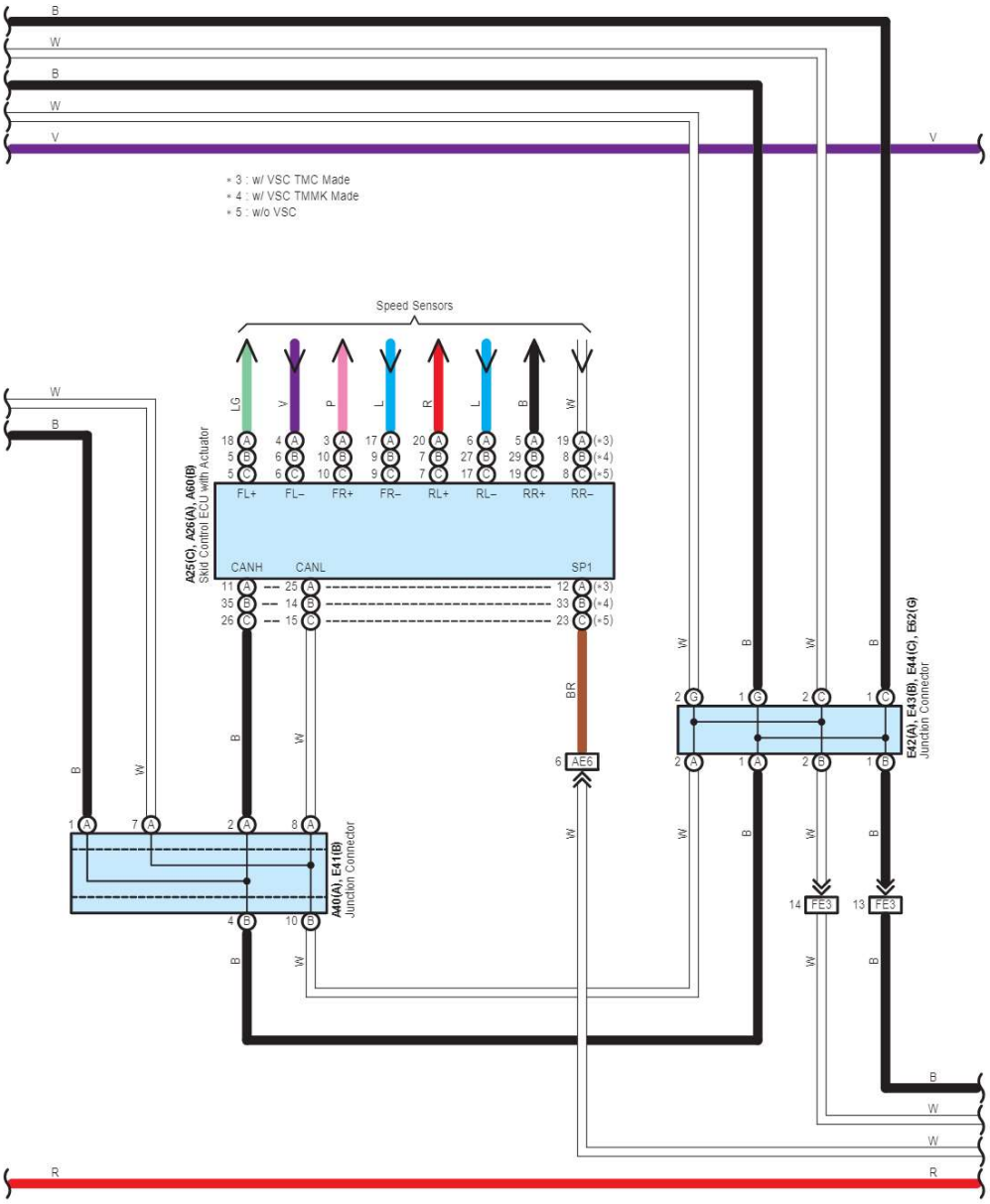

B(+1)
B
W
(BAT)
10A
ETCS
2
1
LG
3
+BM
* 1 : w/ Smart Key System
(BAT)
10A
STOP
8
IC
B
2
3
1
4
L
GR
A19
Stop Lamp SW
B
2
A
6
B
A58(A), E40(B)
Junction Connector
Y
Y
(IG)
10A
IGN
9
IG
1
ID
Y
12
3F
12
3K
Y
L
8
B
3
A
W
36
A
STP
35
A
ST1–
28
A
IGSW
A55(A), C55(B)
Engine Control Module
NE+
NE–
OX2B
EX2B
HT2B
OX1B
HT1B
EX1B
110
B
111
B
87
B
64
B
47
B
88
B
48
B
65
B
(Shielded)
G
R
2
1
C50
Crankshaft
Position Sensor
(Shielded)
B
W–B
Y
(Shielded)
W
LG
BR
3
4
1
OX2B
E2
HT2B
+B
2
C51
Heated Oxygen Sensor
(Bank 2 Sensor 2)
3
1
4
OX1B
HT1B
E2
+B
2
C52
Heated Oxygen Sensor
(Bank 1 Sensor 2)
BR
(Shielded)
(Shielded)
W–L
R
B
B
W–L
R
C5

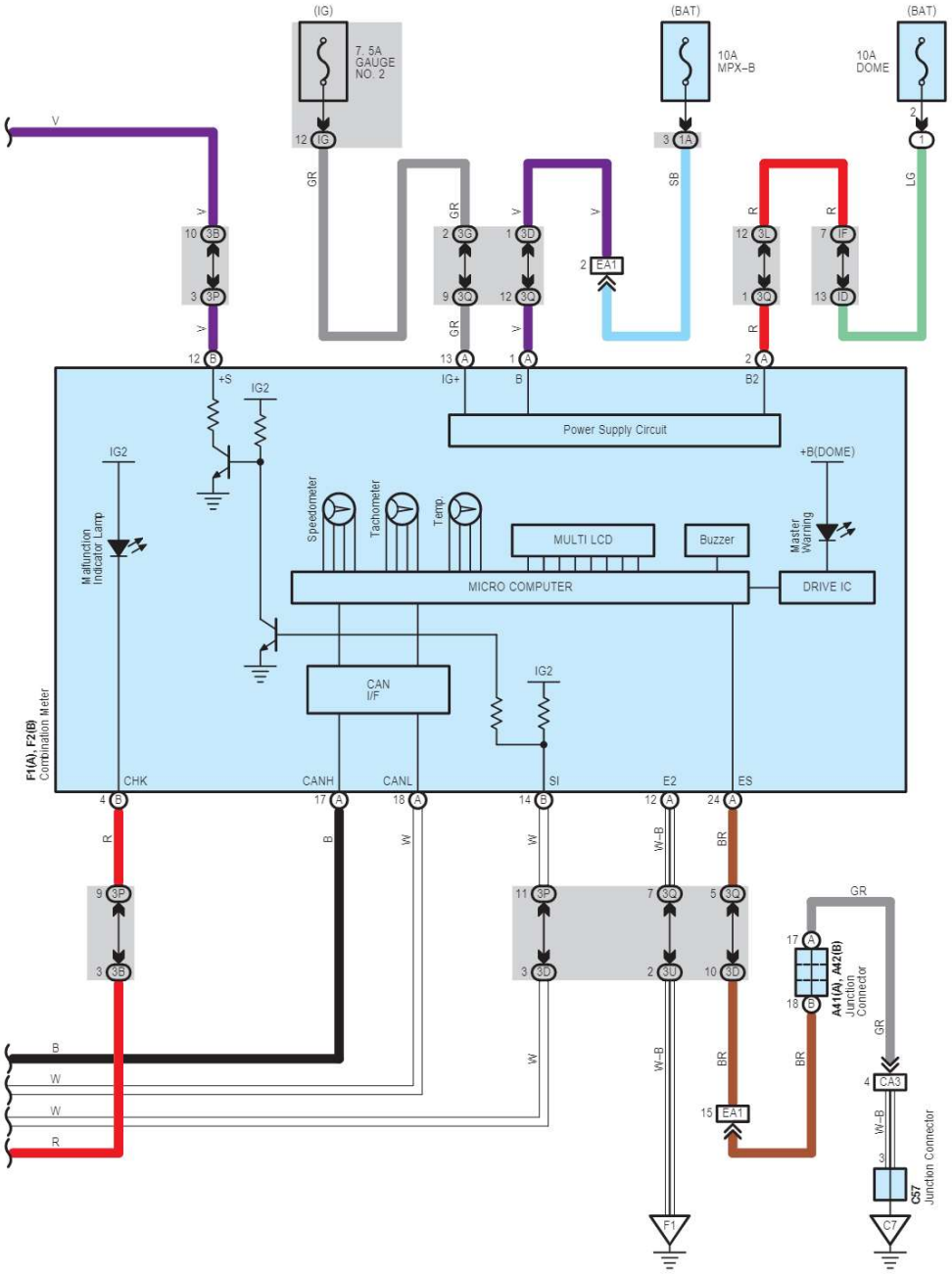

B(+1)
B
W
B(+1)
B
W
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
C4
Engine Coolant Temp. Sensor
(Shielded)
G–R
THW
ETHW
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A55(A), C55(B)
Engine Control Module
A1A+
A1A–
HA1A
A2A+
A2A–
HA2A
KNK1
EKNK
KNK2
EKN2
C15
Air Fuel Ratio Sensor (Bank 1 Sensor 1)
C35
Air Fuel Ratio Sensor (Bank 2 Sensor 1)
+B
CV1
V2
Knock Control Sensor (Bank 1)
V1
Knock Control Sensor (Bank 2)
(Shielded)
C5


B(*1)
B
W
B(*1)
B
W
* 1 : w/ Smart Key System
C41
VVT Sensor
(Bank 1 Intake Side)
VVR+
VVR–
VC
C45
VVT Sensor
(Bank 2 Intake Side)
VVL+
VVL–
VC
C40
VVT Sensor
(Bank 1 Exhaust Side)
EX+
EX–
VC2
C44
VVT Sensor
(Bank 2 Exhaust Side)
EX+
EX–
VC2
A55(A), C55(B)
Engine Control Module
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E04
E01
E03
ME01
E02
E05
E1
A17
Accelerator Position Sensor
C4
C7
CS7
Junction
Connector


B(+1)
B
W
B(+1)
B
W
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
E50
ID Code Box
E15
Transponder Key ECU
EFIO
EFII
C42
Camshaft Timing Oil Control Valve (RH Exhaust Side)
C46
Camshaft Timing Oil Control Valve (LH Exhaust Side)
C43
Camshaft Timing Oil Control Valve (RH Intake Side)
C47
Camshaft Timing Oil Control Valve (LH Intake Side)
AE5
OE1+
OE1–
OE2+
OE2–
OC1+
OC1–
OC2+
OC2–
IMI
IMO
A55(A), C55(B)
Engine Control Module
IGF1
IGT1
IGT2
IGT3
IGT4
IGT5
IGT6
PSW
C11
Ignition Coil (No. 1)
C13
Ignition Coil (No. 2)
C12
Ignition Coil (No. 3)
C14
Ignition Coil (No. 4)
C38
Ignition Coil (No. 5)
C39
Ignition Coil (No. 6)
C17
Power Steering Oil Pressure SW


B(*1)
B
W
B
W
B
W
W
V
C56
Transmission
Control ECU
CAN+
CAN–
6
7
9 4L
10 4C
9 4A
(*1)
(*2)
(×1)
6 AE5
15 A
TACH
6
14
CANH
CANL
TAC
TC
E10
Data Link
Connector 3
13
5 3H
5 3B
12 AE5
27 A
TC
Cooling Fan ECU
43 A
RFC
14 AE5
5 A
6 A
A41(A)
Junction
Connector
8 A
SPD
49 A
CANL
41 A
CANH
2 B
CAN+
1 B
CAN–
A55(A), C55(B)
Engine Control Module
24 A
BR
5 AE5
R


B
W
B
W
V
V
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
Speed Sensors
LG
V
P
L
R
L
B
W
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
CANH
CANL
SP1
BR
6 AE6
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E44(C), E52(G)
Junction Connector
14 FE3
13 FE3
B
W
W
R
R


(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
Power Supply Circuit
MICRO COMPUTER
MULTI LCD
Buzzer
DRIVE IC
CAN
I/F
Speedometer
Tachometer
Temp.
Malfunction
Indicator Lamp
Master
Warning
+B(DOME)
IG2
+S
IG+
B
B2
CHK
CANH
CANL
SI
E2
ES
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction
Connector
CS7
Junction Connector
EA1
F1
C7
CA3

System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit

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

(2) Intake air temp. signal circuit

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

(3) Oxygen sensor signal circuit

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

(4) RPM signal circuit

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

(5) Throttle position sensor signal circuit

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

(6) Vehicle speed circuit

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

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the power SW is pushed on (Power SW type), or when the ignition SW is turned on (Ignition SW type), the voltage for engine control module start–up power supply is applied to TERMINAL +B and +B2 of engine control module via EFI relay.

(8) Intake air volume signal circuit

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

(9) Stop lamp SW signal circuit

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

(10) Starter signal circuit

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

(11) Engine knock signal circuit

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

(12) Air fuel ratio signal circuit

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

2. Control System

- SFI system
  The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #10, #20, #30, #40, #50 and #60 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.
- ESA system
  The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6, and these signals control the igniter to provide the best ignition timing.
- Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1B or HT2B to control the heater.
- Air fuel ratio sensor heater control system
  The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.
  The engine control module evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.
- ACIS
  The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.
- ETCS–i
  The ETCS–i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.
- Dual VVT–i
  Dual VVT–i controls the intake and exhaust valve timing to the most appropriate levels in accordance with the engine conditions.

3. Diagnosis System

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

4. Fail–Safe System

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

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A17	59	C12	50 (2GR–FE)	C56	51 (2GR–FE)
A19	59	C13	50 (2GR–FE)	C57	51 (2GR–FE)
A25 C	48 (2GR–FE)	C14	50 (2GR–FE)	E6 A	56
A26 A	48 (2GR–FE)	C15	50 (2GR–FE)	E7 B	56
A40 A	59	C17	50 (2GR–FE)	E8 C	56
A41 A	59	C34	51 (2GR–FE)	E9 D	56
A42 B	59	C35	51 (2GR–FE)	E10	56
A43	49 (2GR–FE)	C36	51 (2GR–FE)	E15	56
A53	49 (2GR–FE)	C37	51 (2GR–FE)	E23	56
A55 A	49 (2GR–FE)	C38	51 (2GR–FE)	E40 B	57
A56 A	59	C39	51 (2GR–FE)	E41 B	57
A57 B	59	C40	51 (2GR–FE)	E42 A	57
A58 A	59	C41	51 (2GR–FE)	E43 B	57
A60 B	49 (2GR–FE)	C42	51 (2GR–FE)	E44 C	57
C1 A	50 (2GR–FE)	C43	51 (2GR–FE)	E50	57
C2	50 (2GR–FE)	C44	51 (2GR–FE)	E62 G	57
C4	50 (2GR–FE)	C45	51 (2GR–FE)	F1 A	58
C5	50 (2GR–FE)	C46	51 (2GR–FE)	F2 B	58
C6	50 (2GR–FE)	C47	51 (2GR–FE)	N10	60
C7	50 (2GR–FE)	C48	51 (2GR–FE)	N17	60
C8	50 (2GR–FE)	C50	51 (2GR–FE)	V1	51 (2GR–FE)
C9	50 (2GR–FE)	C51	51 (2GR–FE)	V2	51 (2GR–FE)
C10	50 (2GR–FE)	C52	51 (2GR–FE)		
C11	50 (2GR–FE)	C55 B	51 (2GR–FE)		

⬭ : **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**

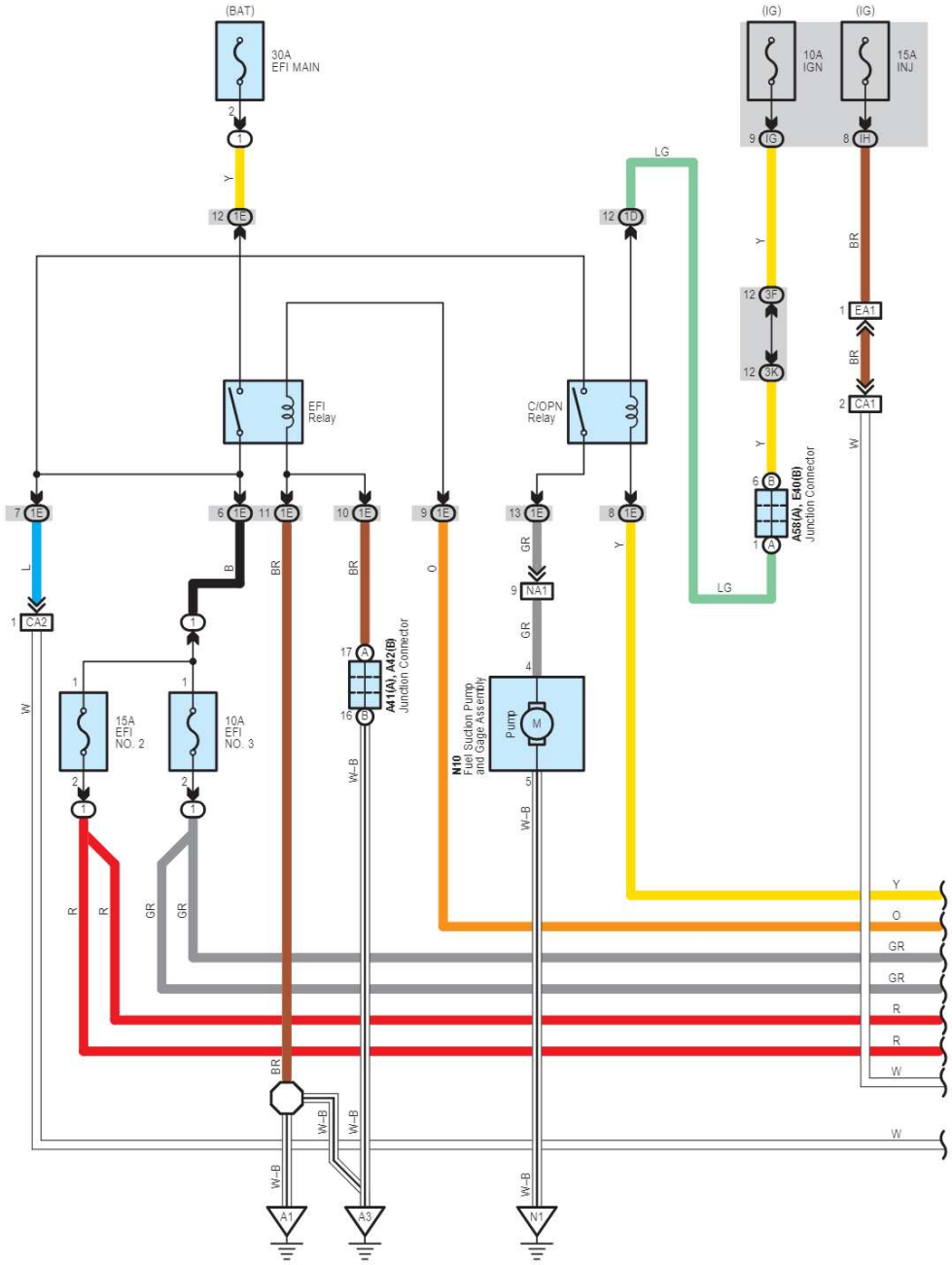
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1G	22	
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3F		
3G		
3H		
3J		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4E		
4F		
4G		
4K		
4L		
4M		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		

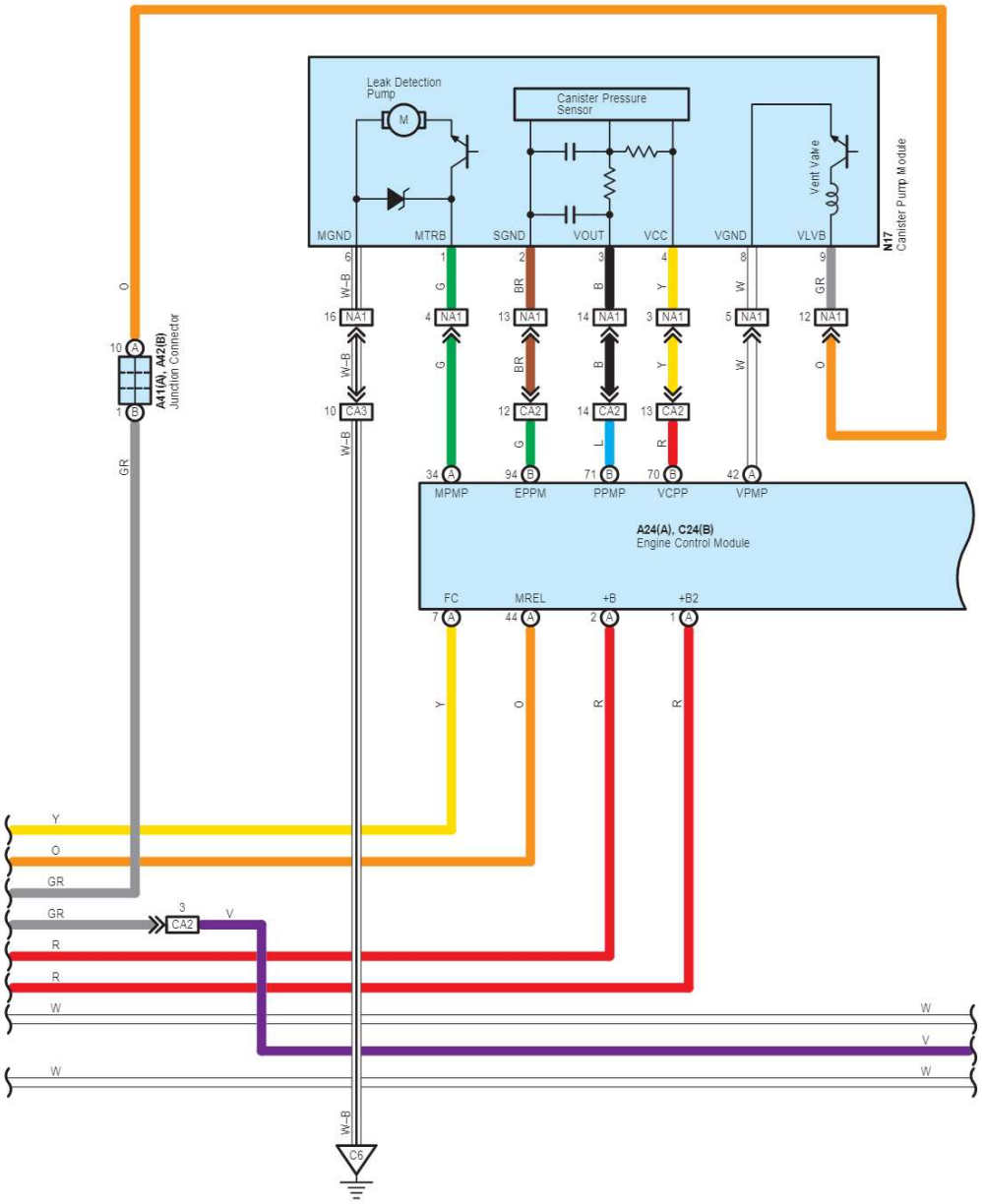
: **Connector Joining Wire Harness and Wire Harness**

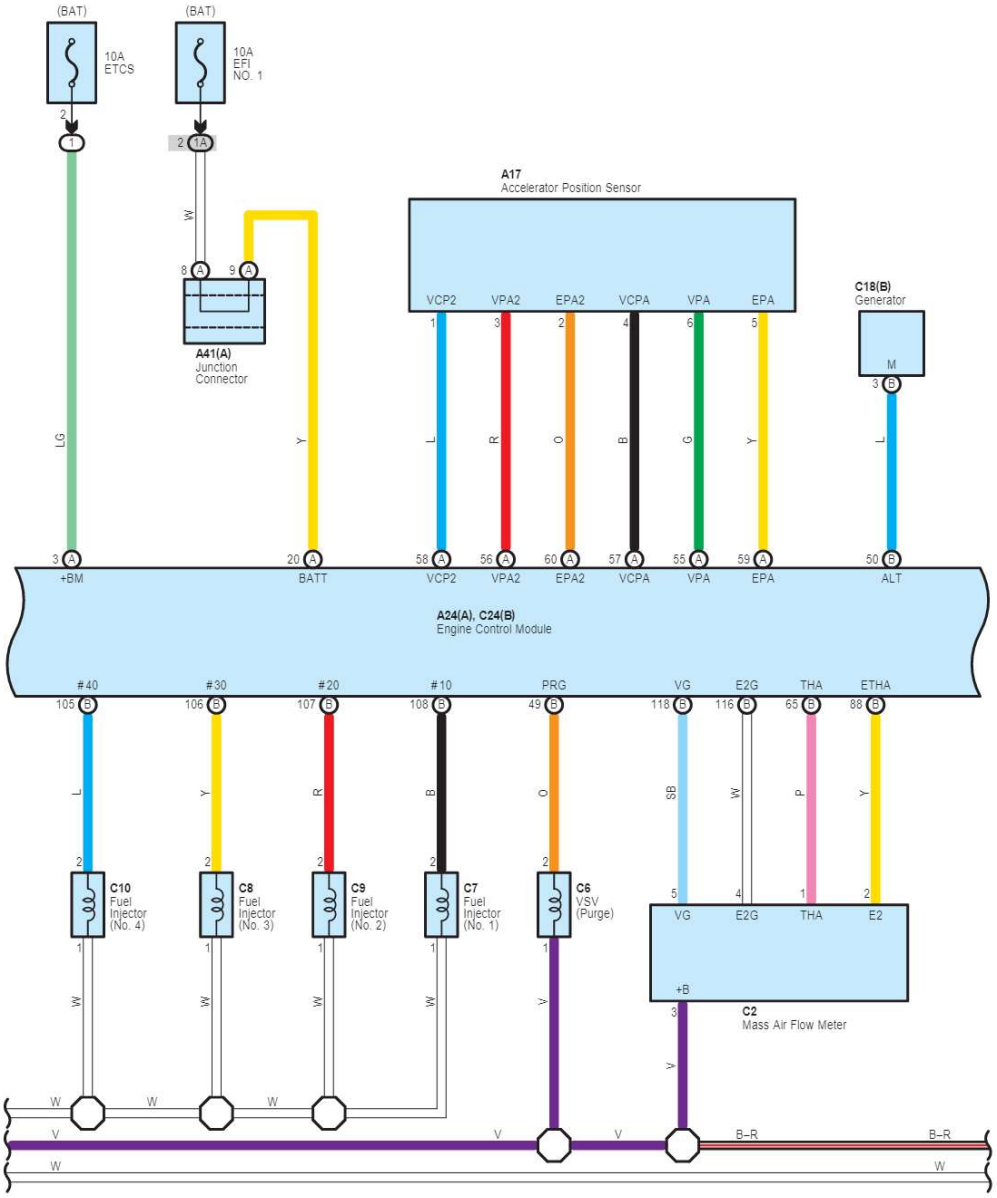
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
CA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA2		
CA3		
CV1	64 (2GR–FE)	Engine Wire and Sensor Wire (Left Side of the Cylinder Block)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)

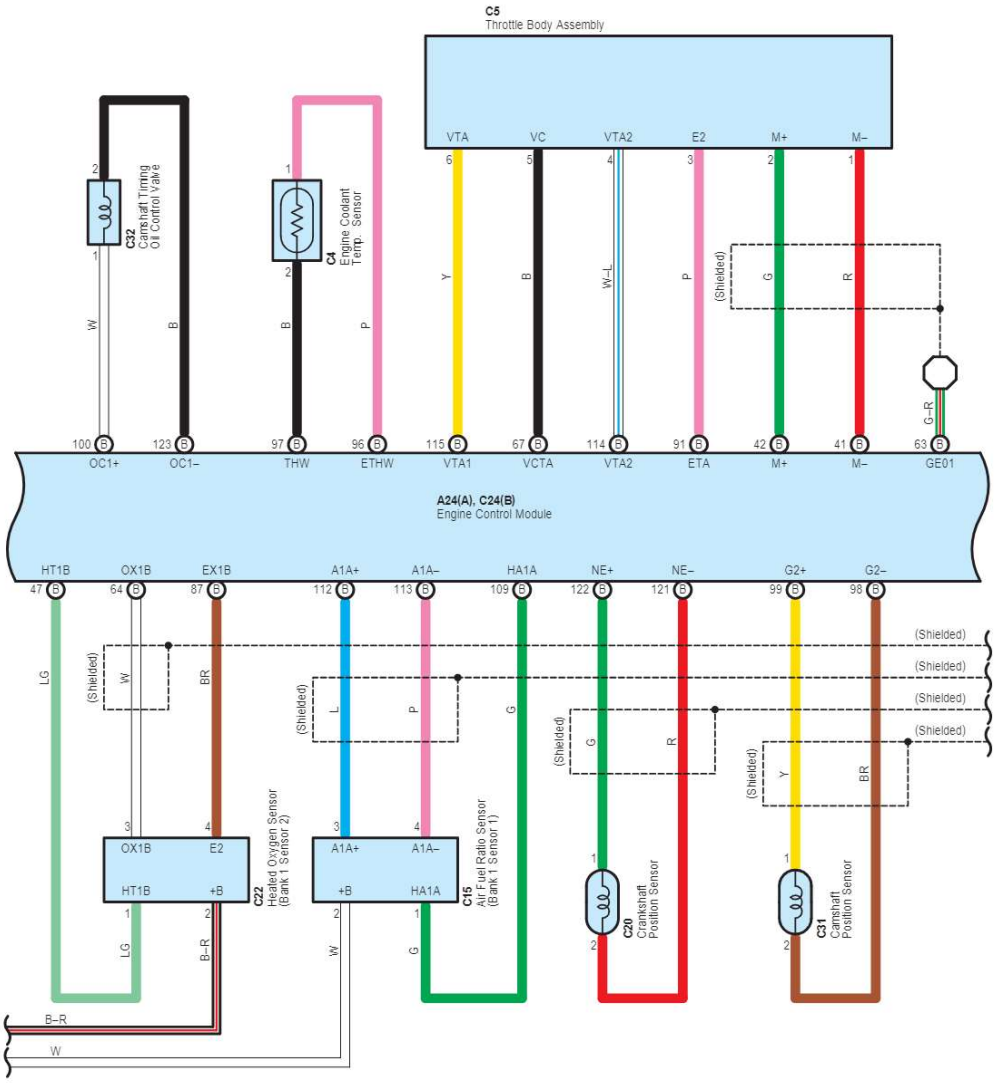
▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
A3	66	Left Cowl Side Panel
C4	64 (2GR–FE)	Cylinder Head
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel

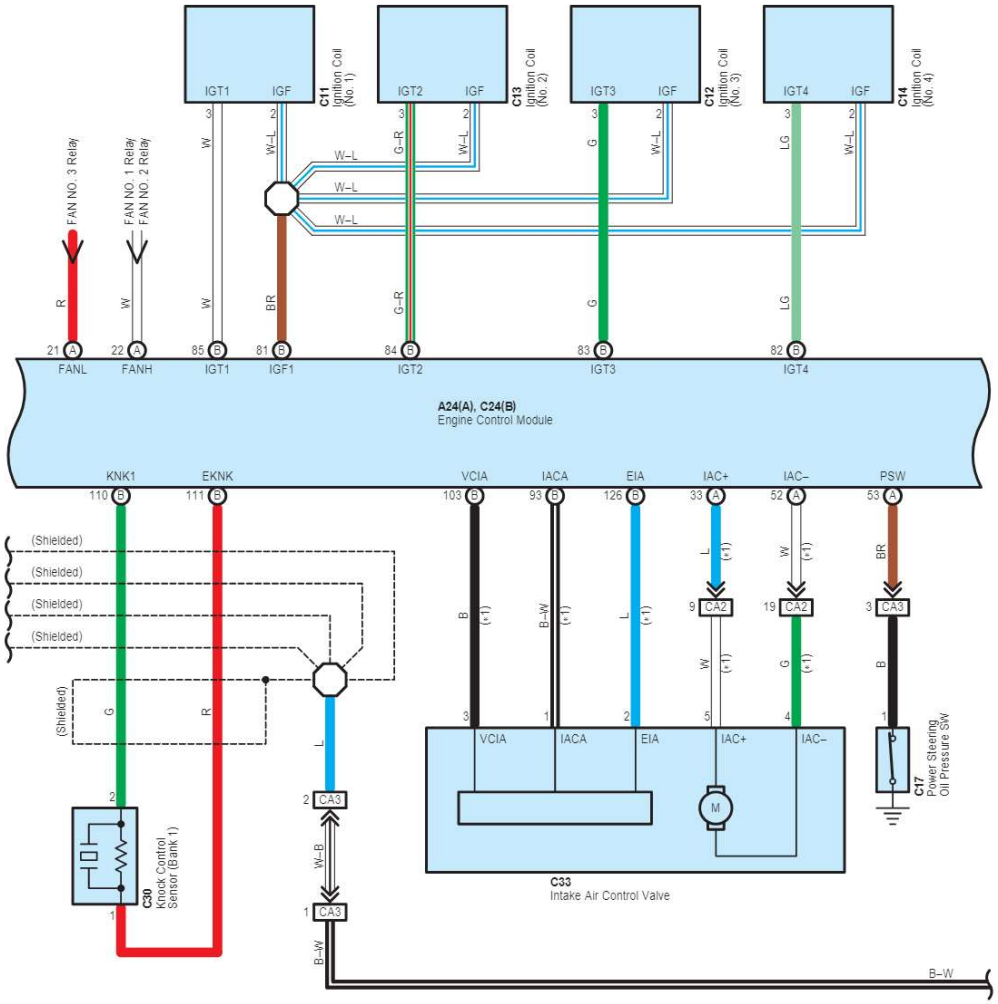

(BAT)
30A
EFI MAIN
(IG)
10A
IGN
(IG)
15A
INJ
EFI
Relay
C/OPN
Relay
A58(A), E40(B)
Junction Connector
A41(A), A42(B)
Junction Connector
N10
Fuel Suction Pump
and Gage Assembly
Pump
15A
EFI
NO. 2
10A
EFI
NO. 3
A1
A3
N1

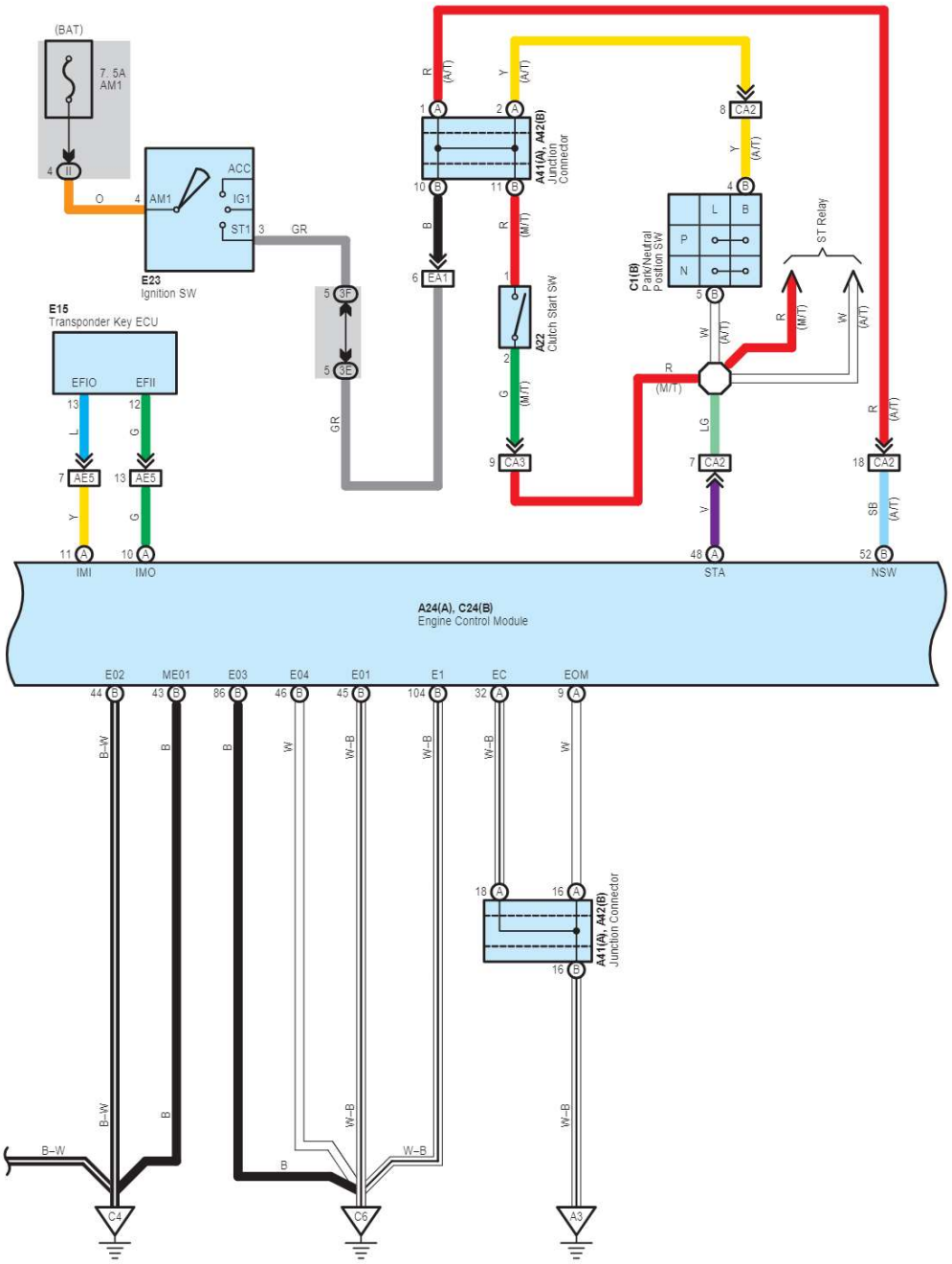

Leak Detection Pump
M
Canister Pressure Sensor
Vent Valve
N17
Canister Pump Module
MGND
MTRB
SGND
VOUT
VCC
VGND
VLVB
A41(A), A42(B)
Junction Connector
MPMP
EPPM
PPMP
VCPP
VPMP
A24(A), C24(B)
Engine Control Module
FC
MREL
+B
+B2
C6

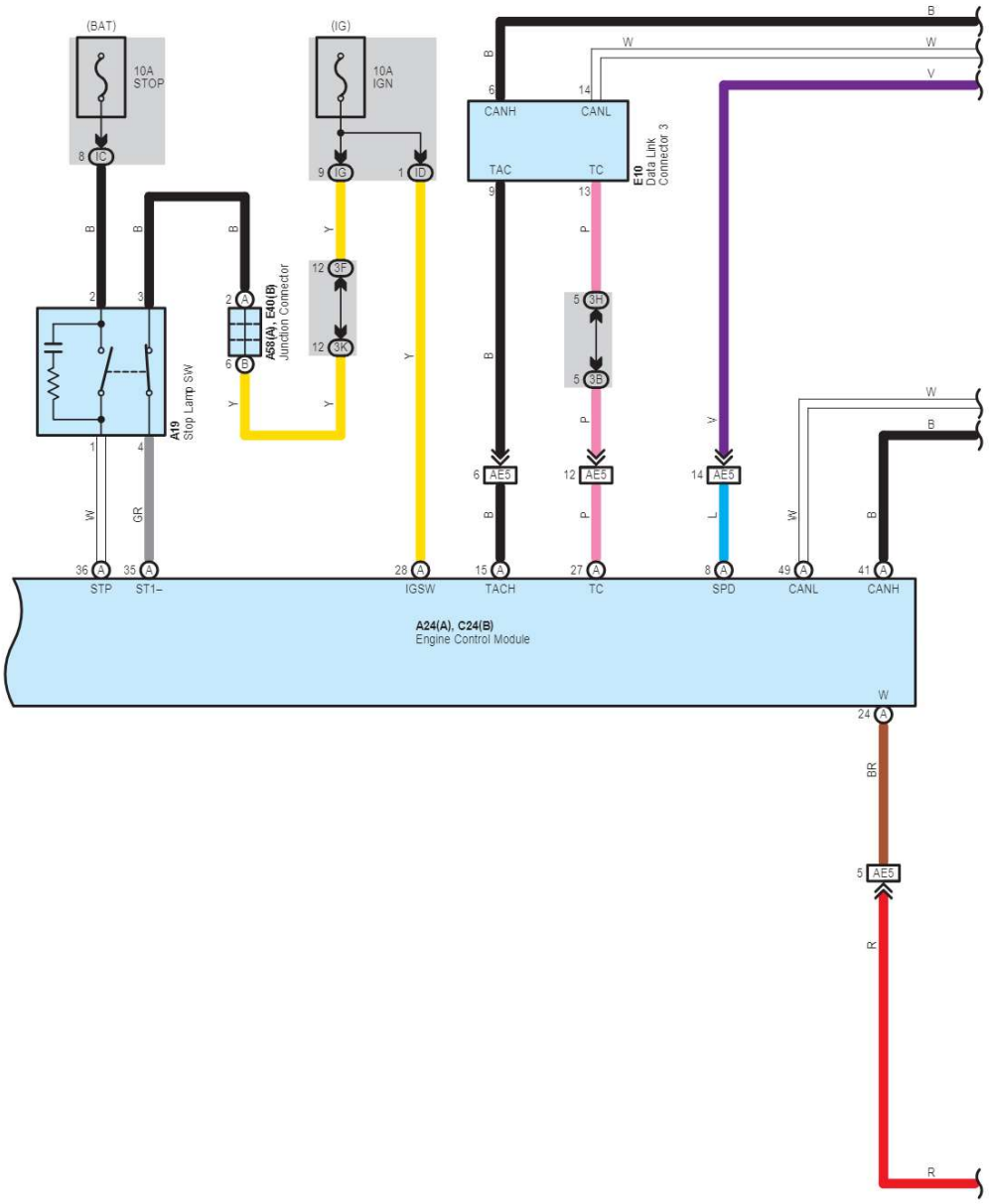

(BAT)
10A
ETCS
(BAT)
10A
EFI
NO. 1
A17
Accelerator Position Sensor
VCP2
VPA2
EPA2
VCPA
VPA
EPA
C18(B)
Generator
A41(A)
Junction
Connector
LG
Y
L
R
O
B
G
Y
L
+BM
BATT
VCP2
VPA2
EPA2
VCPA
VPA
EPA
ALT
A24(A), C24(B)
Engine Control Module
#40
#30
#20
#10
PRG
VG
E2G
THA
ETHA
C10
Fuel
Injector
(No. 4)
C8
Fuel
Injector
(No. 3)
C9
Fuel
Injector
(No. 2)
C7
Fuel
Injector
(No. 1)
C6
VSV
(Purge)
SB
W
P
Y
VG
E2G
THA
E2
+B
C2
Mass Air Flow Meter
V
B–R
W

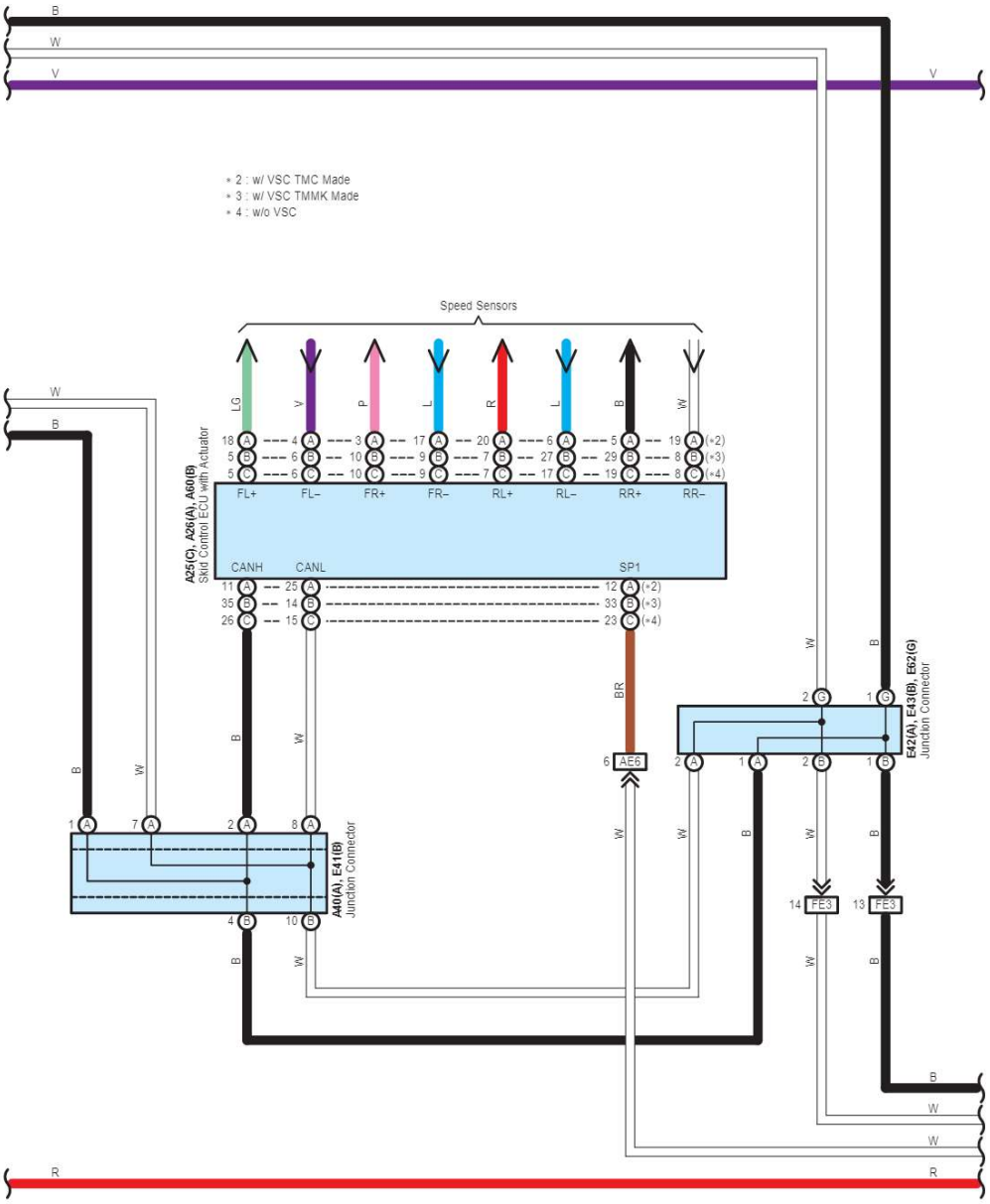

C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
C32
Camshaft Timing Oil Control Valve
C4
Engine Coolant Temp. Sensor
(Shielded)
G–R
OC1+
OC1–
THW
ETHW
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A24(A), C24(B)
Engine Control Module
HT1B
OX1B
EX1B
A1A+
A1A–
HA1A
NE+
NE–
G2+
G2–
C22
Heated Oxygen Sensor (Bank 1 Sensor 2)
C15
Air Fuel Ratio Sensor (Bank 1 Sensor 1)
C20
Crankshaft Position Sensor
C31
Camshaft Position Sensor
B–R
W

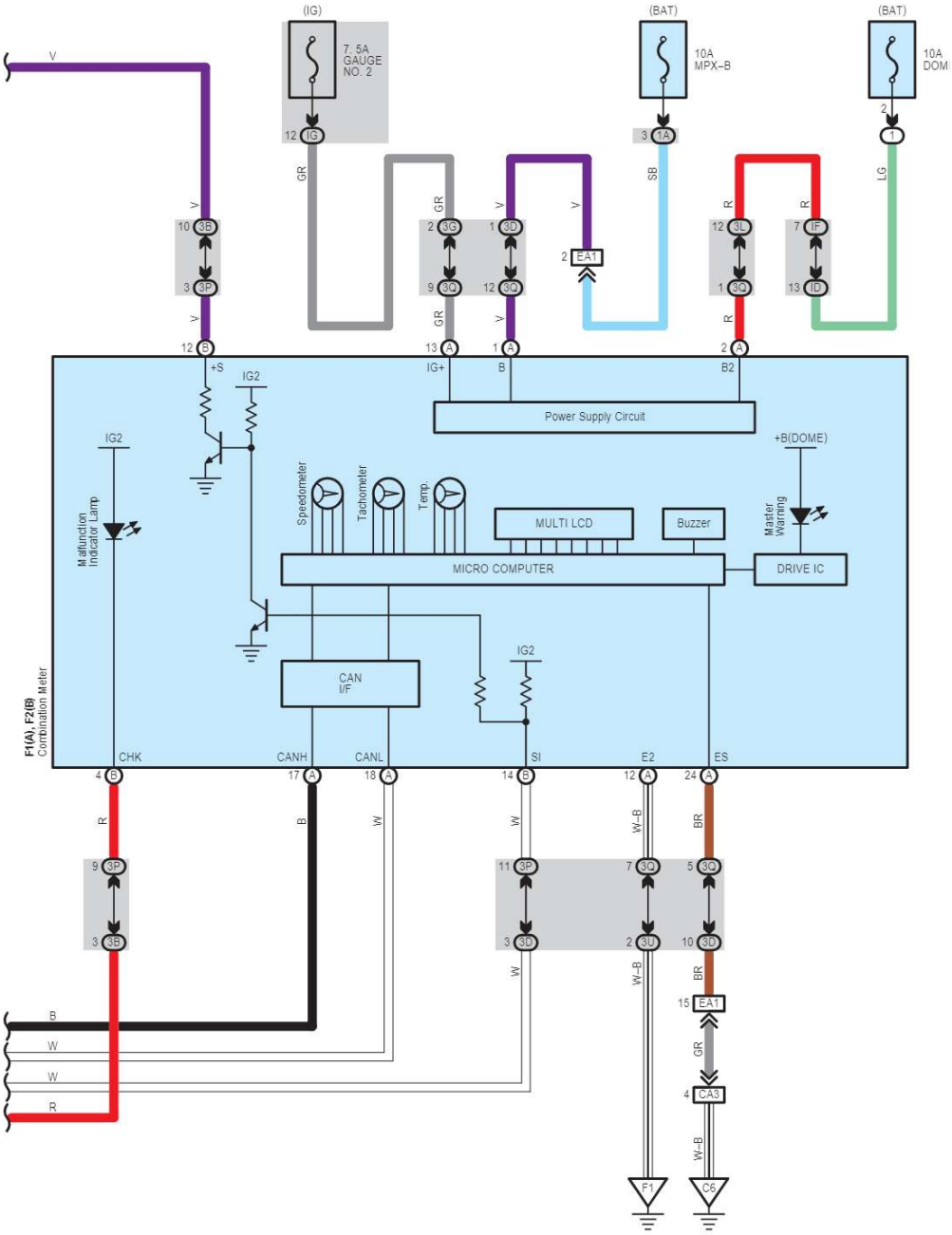
* 1 : California




(BAT)
7.5A
AM1
ACC
IG1
ST1
AM1
E23
Ignition SW
GR
E15
Transponder Key ECU
EFIO
EFII
AE5
IMI
IMO
A41(A), A42(B)
Junction Connector
A22
Clutch Start SW
C1(B)
Park/Neutral
Position SW
ST Relay
CA2
CA3
EA1
STA
NSW
A24(A), C24(B)
Engine Control Module
E02
ME01
E03
E04
E01
E1
EC
EOM
C4
C6
A3


(BAT)
10A
STOP
(IG)
10A
IGN
8 IC
9 IG
1 ID
B
W
V
6
14
CANH
CANL
TAC
TC
E10
Data Link
Connector 3
9
13
P
B
Y
12 3F
12 3K
5 3H
5 3B
2
3
2 A
6 B
A58(A), E40(B)
Junction Connector
A19
Stop Lamp SW
1
4
W
GR
6 AE5
12 AE5
14 AE5
L
W
B
36 A
35 A
28 A
15 A
27 A
8 A
49 A
41 A
STP
ST1–
IGSW
TACH
TC
SPD
CANL
CANH
A24(A), C24(B)
Engine Control Module
24 A
BR
5 AE5
R


* 2 : w/ VSC TMC Made
* 3 : w/ VSC TMMK Made
* 4 : w/o VSC
Speed Sensors
LG
V
P
L
R
L
B
W
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
CANH
CANL
SP1
BR
AE6
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E62(G)
Junction Connector
FE3
FE3
B
W
V
R


(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOM
Power Supply Circuit
+B(DOME)
Speedometer
Tachometer
Temp.
MULTI LCD
Buzzer
Malfunction
Indicator Lamp
Master
Warning
MICRO COMPUTER
DRIVE IC
CAN
I/F
F1(A), F2(B)
Combination Meter
CHK
CANH
CANL
SI
E2
ES
IG+
B
B2
+S
IG2

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 TERMINAL OX1B of the engine control module.

(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 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) Stop lamp SW signal circuit

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

(9) Starter signal circuit

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

(10) Engine knock signal circuit

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

(11) Air fuel ratio signal system

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

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 fuel 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 TERMINAL HT1B to control the heater.

3. Diagnosis System

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

4. Fail–Safe System

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A17	59	C7	54 (2AZ–FE)	C32	55 (2AZ–FE)
A19	59	C8	54 (2AZ–FE)	C33	55 (2AZ–FE)
A22	59	C9	54 (2AZ–FE)	E10	56
A24 A	52 (2AZ–FE)	C10	54 (2AZ–FE)	E15	56
A25 C	52 (2AZ–FE)	C11	54 (2AZ–FE)	E23	56
A26 A	52 (2AZ–FE)	C12	54 (2AZ–FE)	E40 B	57
A40 A	59	C13	54 (2AZ–FE)	E41 B	57
A41 A	59	C14	54 (2AZ–FE)	E42 A	57
A42 B	59	C15	54 (2AZ–FE)	E43 B	57
A58 A	59	C17	54 (2AZ–FE)	E62 G	57
A60 B	53 (2AZ–FE)	C18 B	54 (2AZ–FE)	F1 A	58
C1 B	54 (2AZ–FE)	C20	55 (2AZ–FE)	F2 B	58
C2	54 (2AZ–FE)	C22	55 (2AZ–FE)	N10	60
C4	54 (2AZ–FE)	C24 B	55 (2AZ–FE)	N17	60
C5	54 (2AZ–FE)	C30	55 (2AZ–FE)		
C6	54 (2AZ–FE)	C31	55 (2AZ–FE)		

▭ : 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)
1D		
1E		
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3F		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
II		

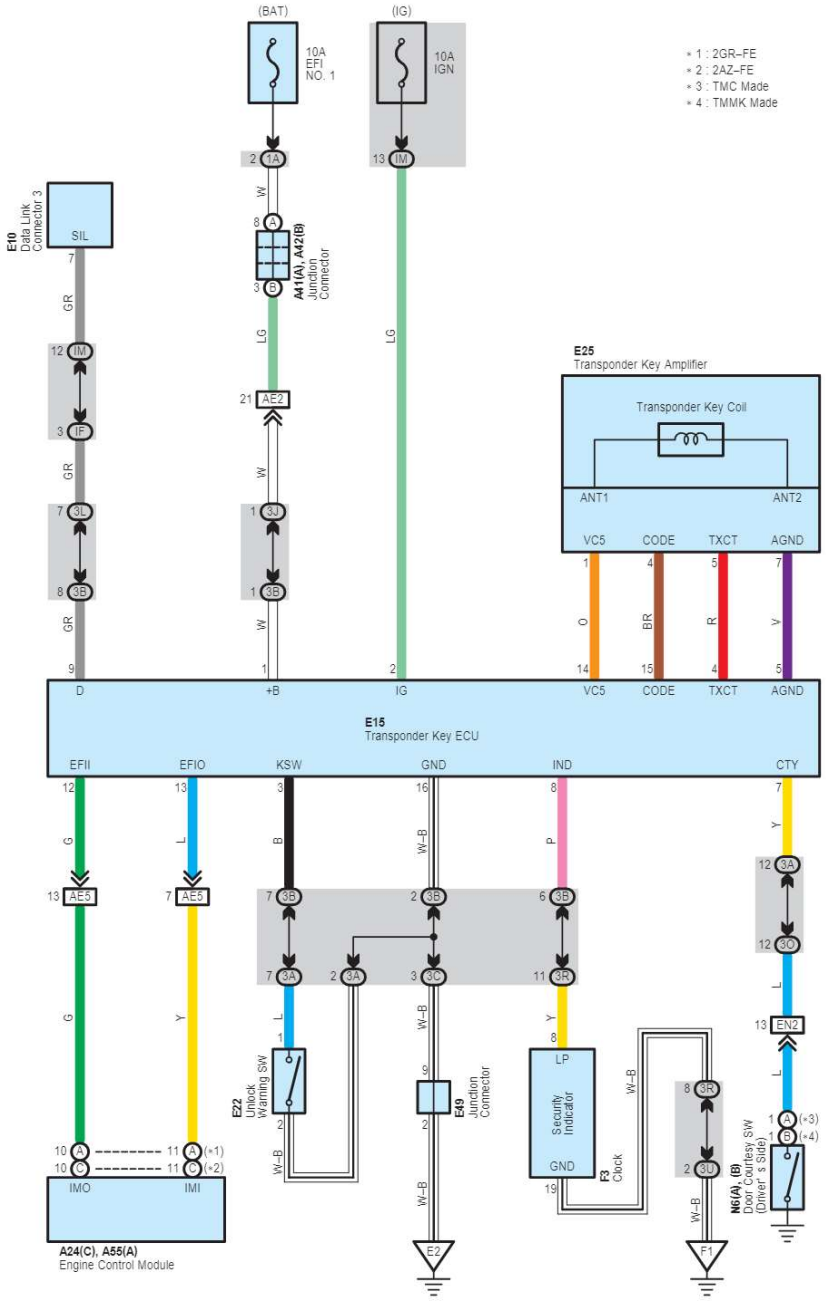
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA1	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA2		
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
A3	66	Left Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C6		
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel

Engine Immobiliser System without Smart Key System



○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
A24	C	52 (2AZ–FE)	E10	56	E49		57
A41	A	59	E15	56	F3		58
A42	B	59	E22	56	N6	A	60
A55	A	49 (2GR–FE)	E25	56		B	60

⬭ : **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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3J		
3L		
3O		
3R	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM		

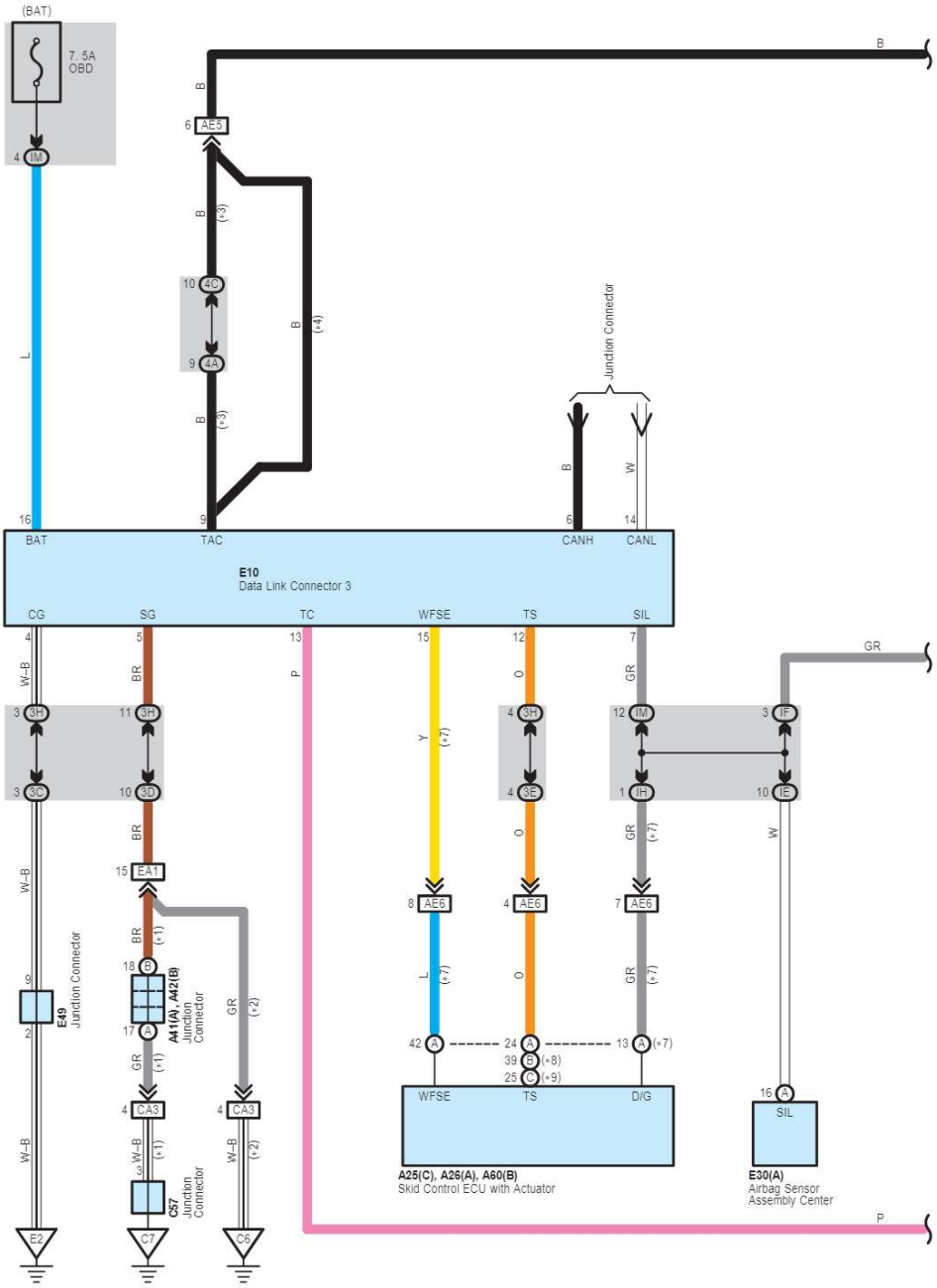
▭ : **Connector Joining Wire Harness and Wire Harness**

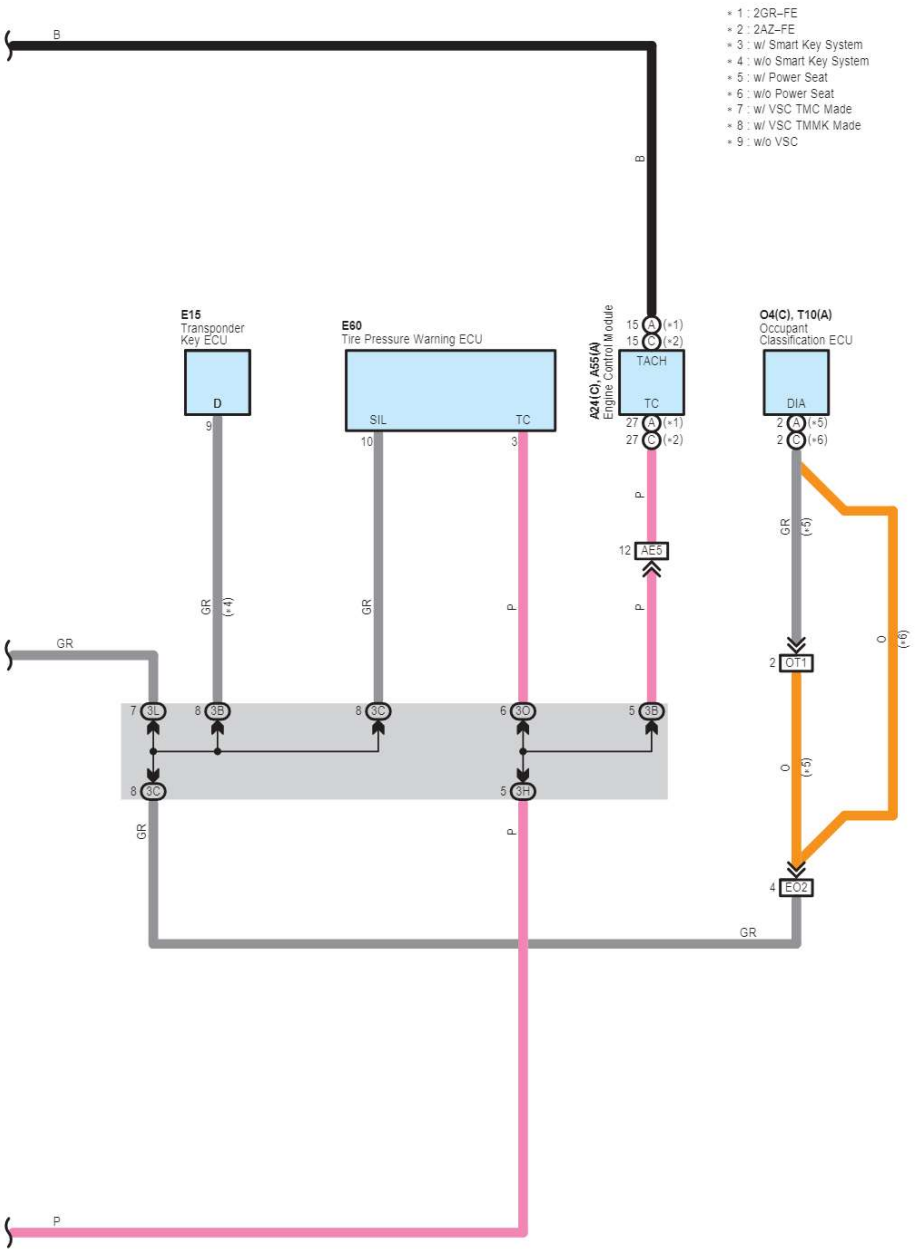
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	68	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

Data Link Connector 3




* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : w/ Smart Key System
* 4 : w/o Smart Key System
* 5 : w/ Power Seat
* 6 : w/o Power Seat
* 7 : w/ VSC TMC Made
* 8 : w/ VSC TMMK Made
* 9 : w/o VSC
B
E15
Transponder Key ECU
D
9
E60
Tire Pressure Warning ECU
SIL
TC
10
3
A24(C), A55(A)
Engine Control Module
15 A (*1)
15 C (*2)
TACH
TC
27 A (*1)
27 C (*2)
O4(C), T10(A)
Occupant Classification ECU
DIA
2 A (*5)
2 C (*6)
P
12 AE5
GR
(*4)
GR
P
P
GR
(*5)
O
(*6)
2 OT1
O
(*5)
4 EO2
GR
7 3L
8 3B
8 3C
6 3O
5 3B
8 3C
5 3H
GR
P
GR
P

Data Link Connector 3

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A24	C	52 (2AZ–FE)	A42	B	59	E15		56
A25	C	48 (2GR–FE)	A55	A	49 (2GR–FE)	E30	A	56
		52 (2AZ–FE)	A60	B	49 (2GR–FE)	E49		57
A26	A	48 (2GR–FE)			53 (2AZ–FE)	E60		57
		52 (2AZ–FE)	C57		51 (2GR–FE)	O4	C	63 (*2)
A41	A	59	E10		56	T10	A	62 (*1)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3E		
3H		
3L		
3O		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IH	31	
IM	30	

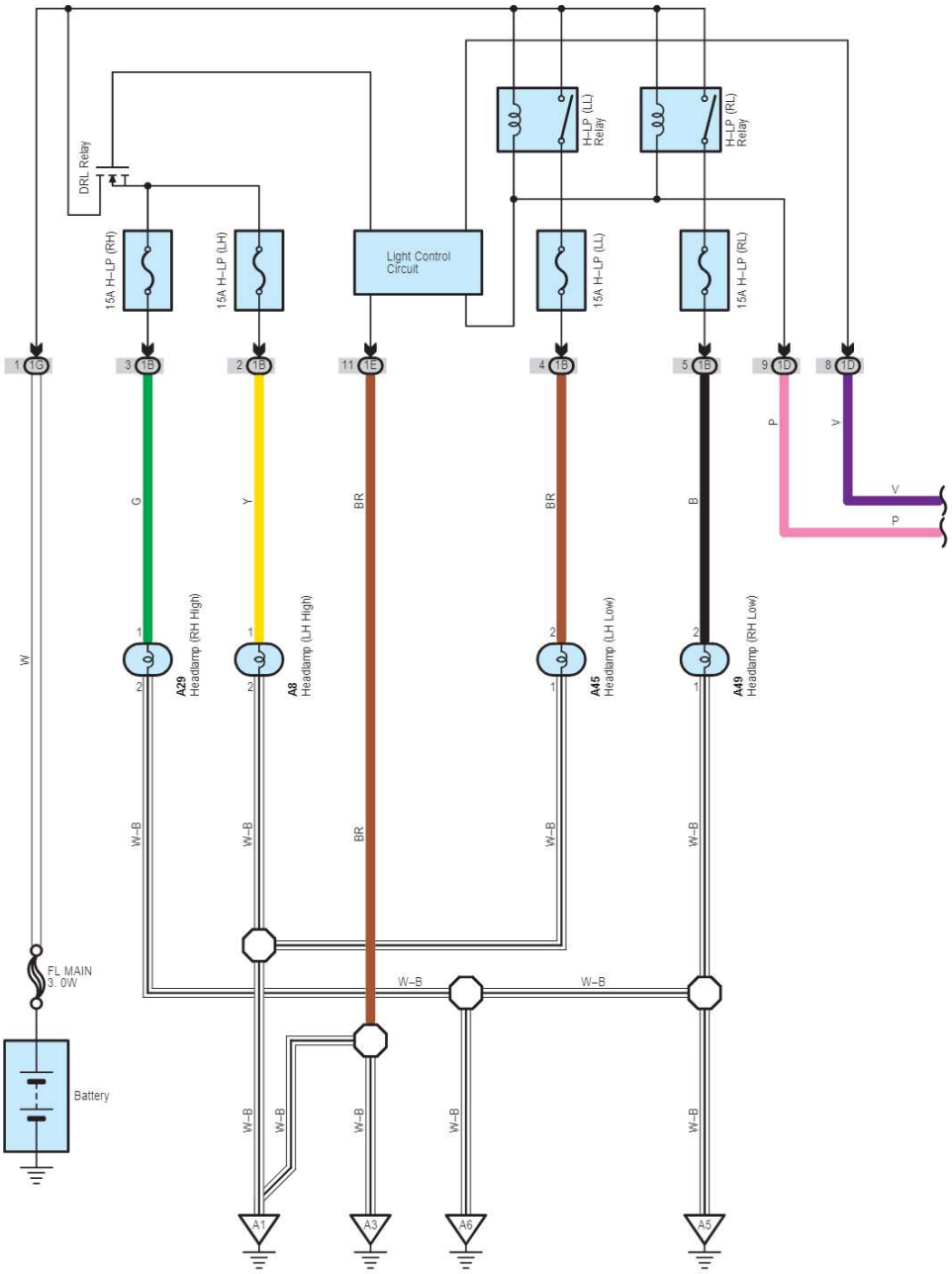
▭ : **Connector Joining Wire Harness and Wire Harness**

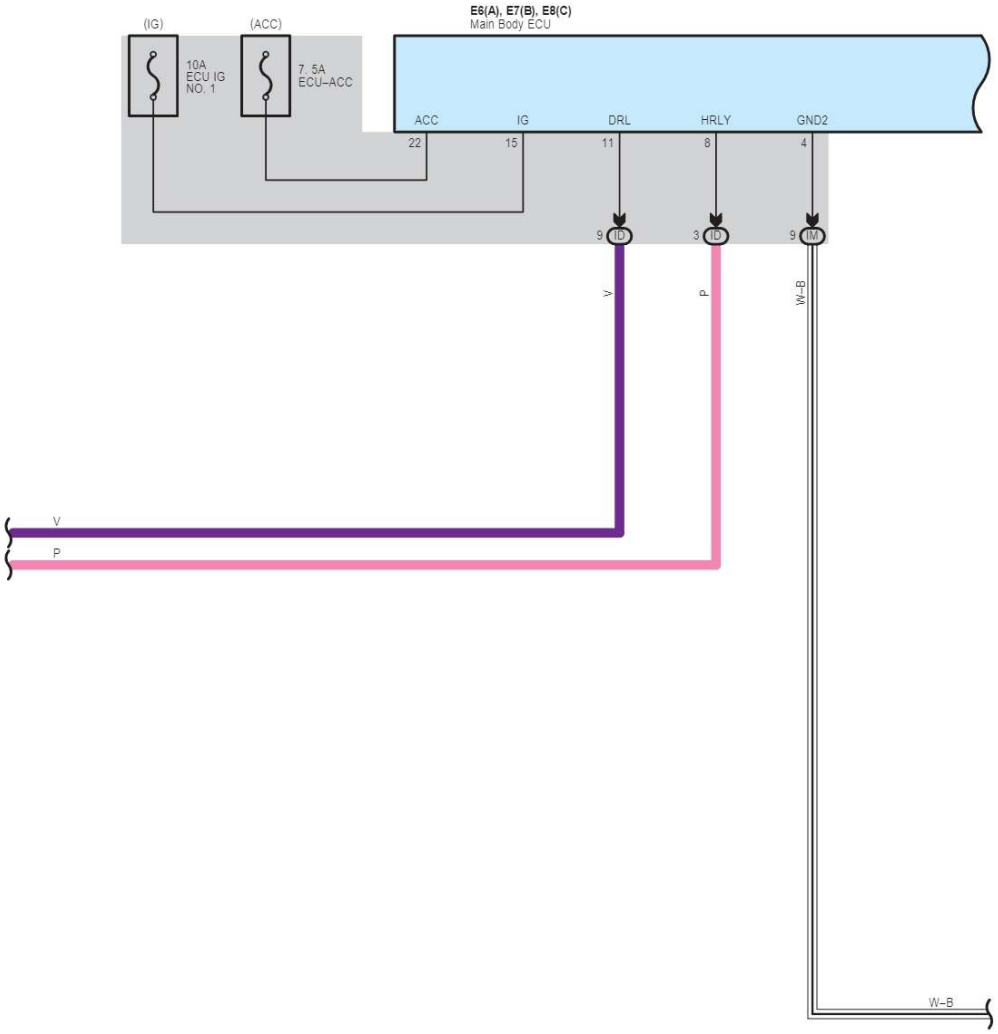
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
OT1	68 (*1)	Floor No.2 Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

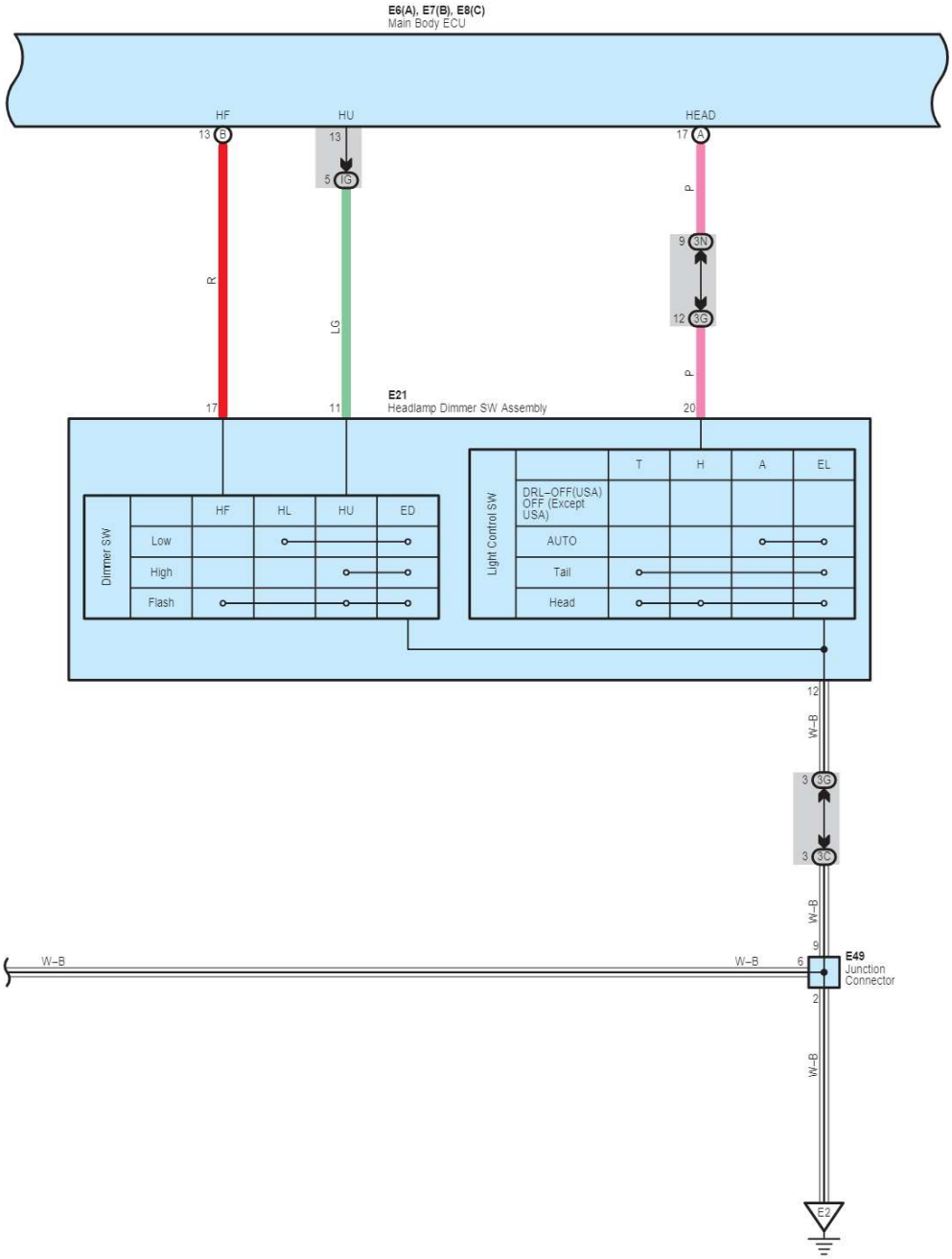
▽ : **Ground Points**

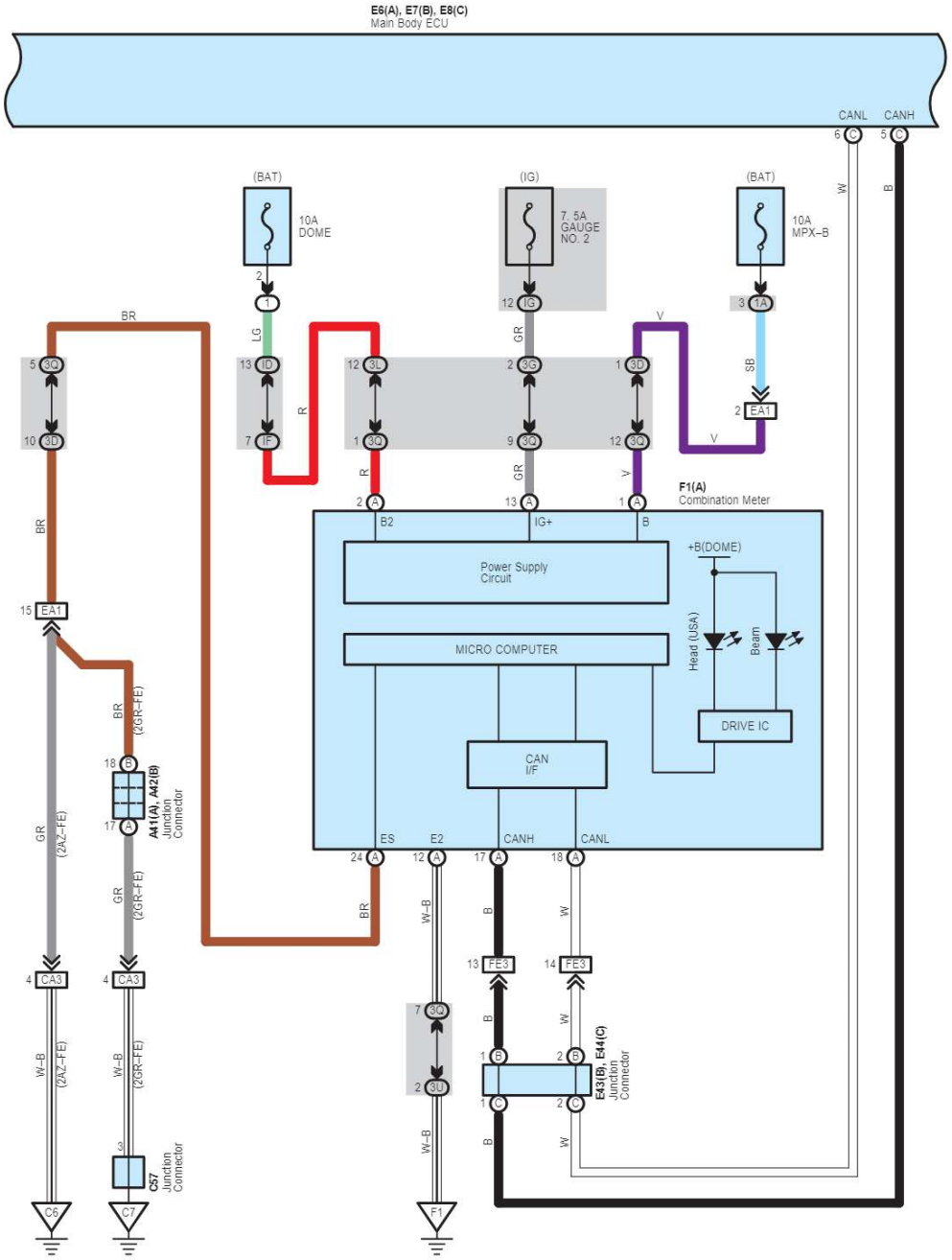
Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH

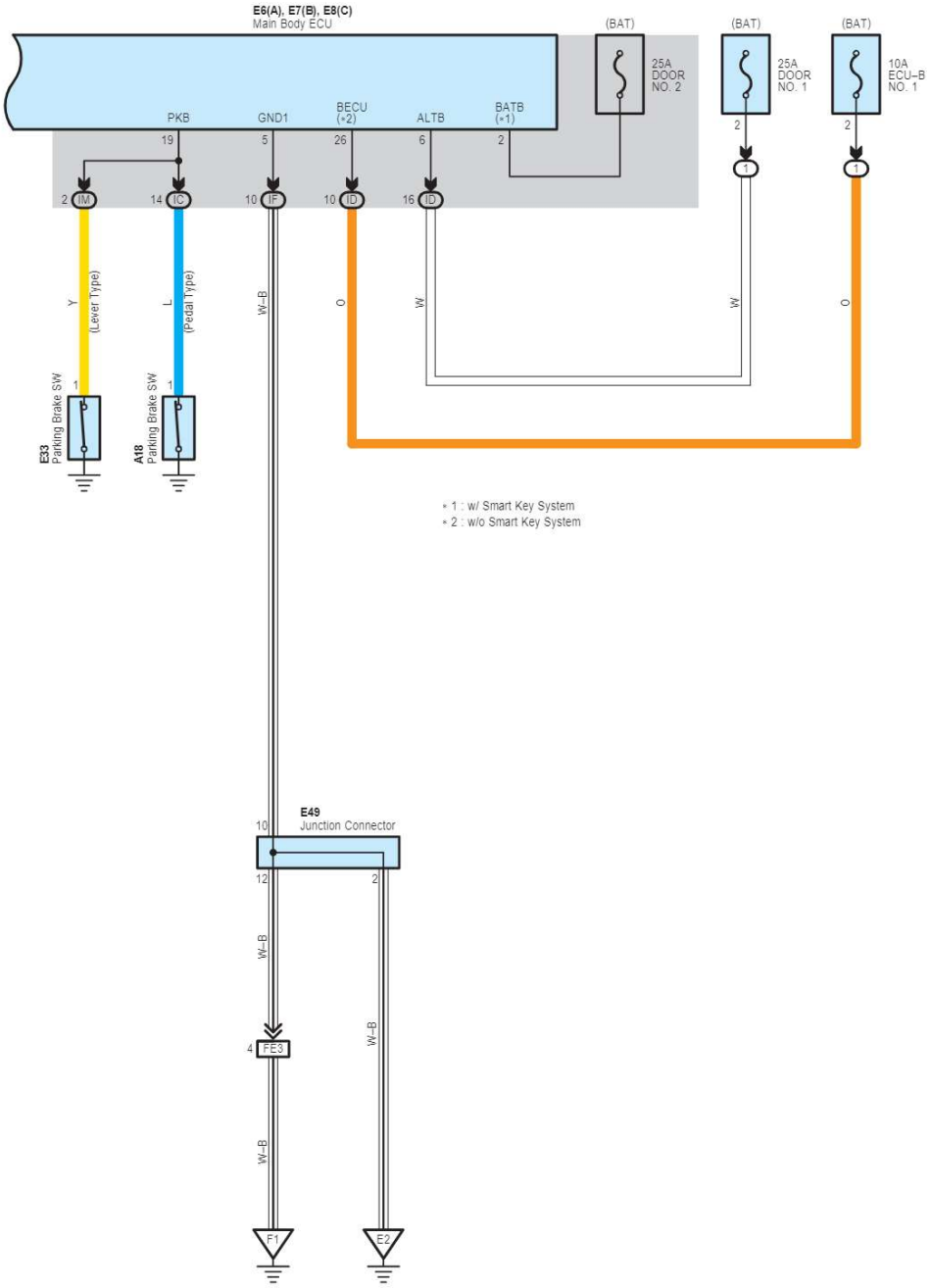
* 1 : w/ Power Seat * 2 : w/o Power Seat


DRL Relay
H-LP (LL) Relay
H-LP (RL) Relay
15A H-LP (RH)
15A H-LP (LH)
Light Control Circuit
15A H-LP (LL)
15A H-LP (RL)
1G
3B
2B
11E
4B
5B
9D
8D
G
Y
BR
BR
B
P
V
V
P
W
A29 Headlamp (RH High)
A8 Headlamp (LH High)
A45 Headlamp (LH Low)
A49 Headlamp (RH Low)
W-B
FL MAIN 3.0W
Battery
A1
A3
A6
A5


E6(A), E7(B), E8(C)
Main Body ECU
(IG)
(ACC)
10A
ECU IG
NO. 1
7. 5A
ECU-ACC
ACC
IG
DRL
HRLY
GND2
22
15
11
8
4
9
3
9
V
P
W-B
V
P
W-B


E6(A), E7(B), E8(C)
Main Body ECU
HF
HU
HEAD
13 B
13
5 1G
17 A
P
9 3N
12 3G
R
LG
P
17
11
20
E21
Headlamp Dimmer SW Assembly
Dimmer SW
HF
HL
HU
ED
Low
High
Flash
Light Control SW
T
H
A
EL
DRL-OFF(USA)
OFF (Except USA)
AUTO
Tail
Head
12
W-B
3 3G
3 3C
W-B
9
W-B
W-B
6
E49
Junction Connector
2
W-B
E2


E6(A), E7(B), E8(C)
Main Body ECU
CANL
CANH
(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
F1(A)
Combination Meter
B2
IG+
B
Power Supply
Circuit
+B(DOME)
MICRO COMPUTER
Head (USA)
Beam
DRIVE IC
CAN
I/F
ES
E2
CANH
CANL
A41(A), A42(B)
Junction
Connector
E43(B), E44(C)
Junction
Connector
C57
Junction
Connector
C6
C7
F1


E6(A), E7(B), E8(C)
Main Body ECU
(BAT)
25A DOOR NO. 2
(BAT)
25A DOOR NO. 1
(BAT)
10A ECU-B NO. 1
PKB
GND1
BECU (*2)
ALTB
BATB (*1)
19
5
26
6
2
2 1M
14 1C
10 1F
10 1D
16 1D
Y
(Lever Type)
L
(Pedal Type)
W-B
O
W
W
O
E33
Parking Brake SW
A18
Parking Brake SW
1
1
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
E49
Junction Connector
10
12
2
W-B
W-B
4 FE3
W-B
F1
E2

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	48 (2GR–FE)	A45	49 (2GR–FE)	E8 C	56
	52 (2AZ–FE)		53 (2AZ–FE)	E21	56
A18	59	A49	49 (2GR–FE)	E33	56
A29	48 (2GR–FE)		53 (2AZ–FE)	E43 B	57
	52 (2AZ–FE)	C57	51 (2GR–FE)	E44 C	57
A41 A	59	E6 A	56	E49	57
A42 B	59	E7 B	56	F1 A	58

⬭ : 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		
1D		
1E		
1G	22	
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3N		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IM	30	

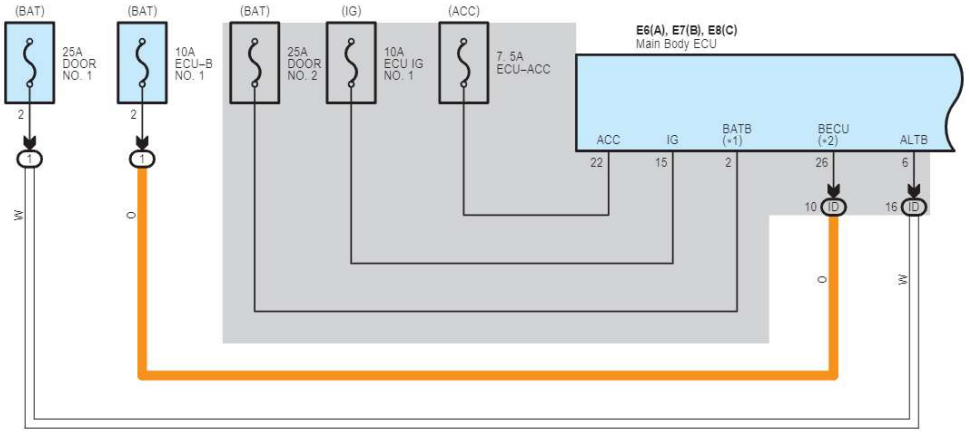
▭ : Connector Joining Wire Harness and Wire Harness

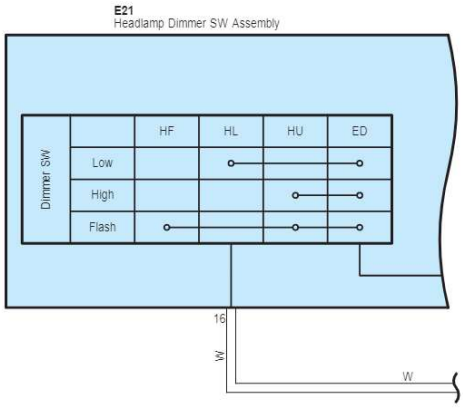
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

▽ : Ground Points

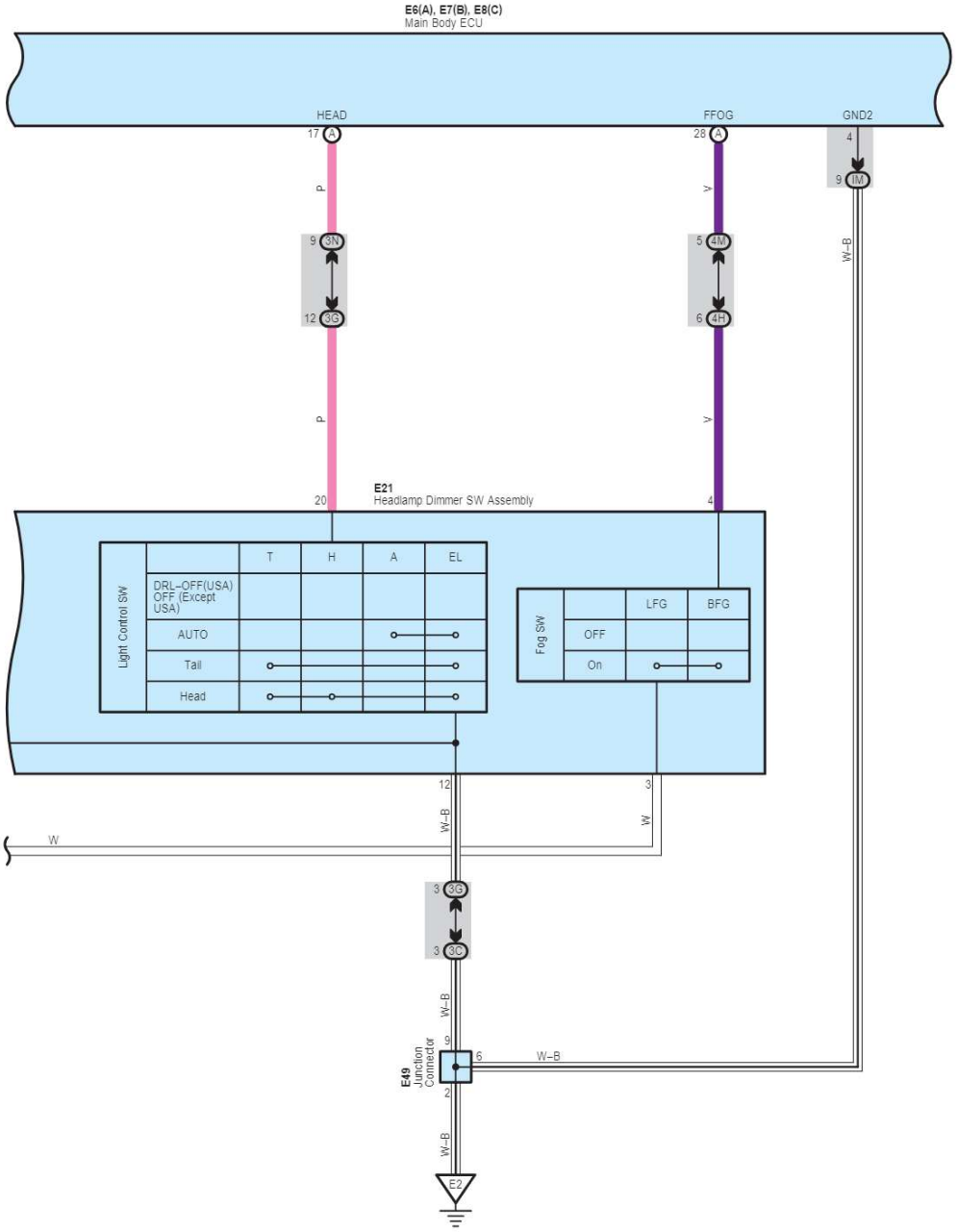
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel
A5	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

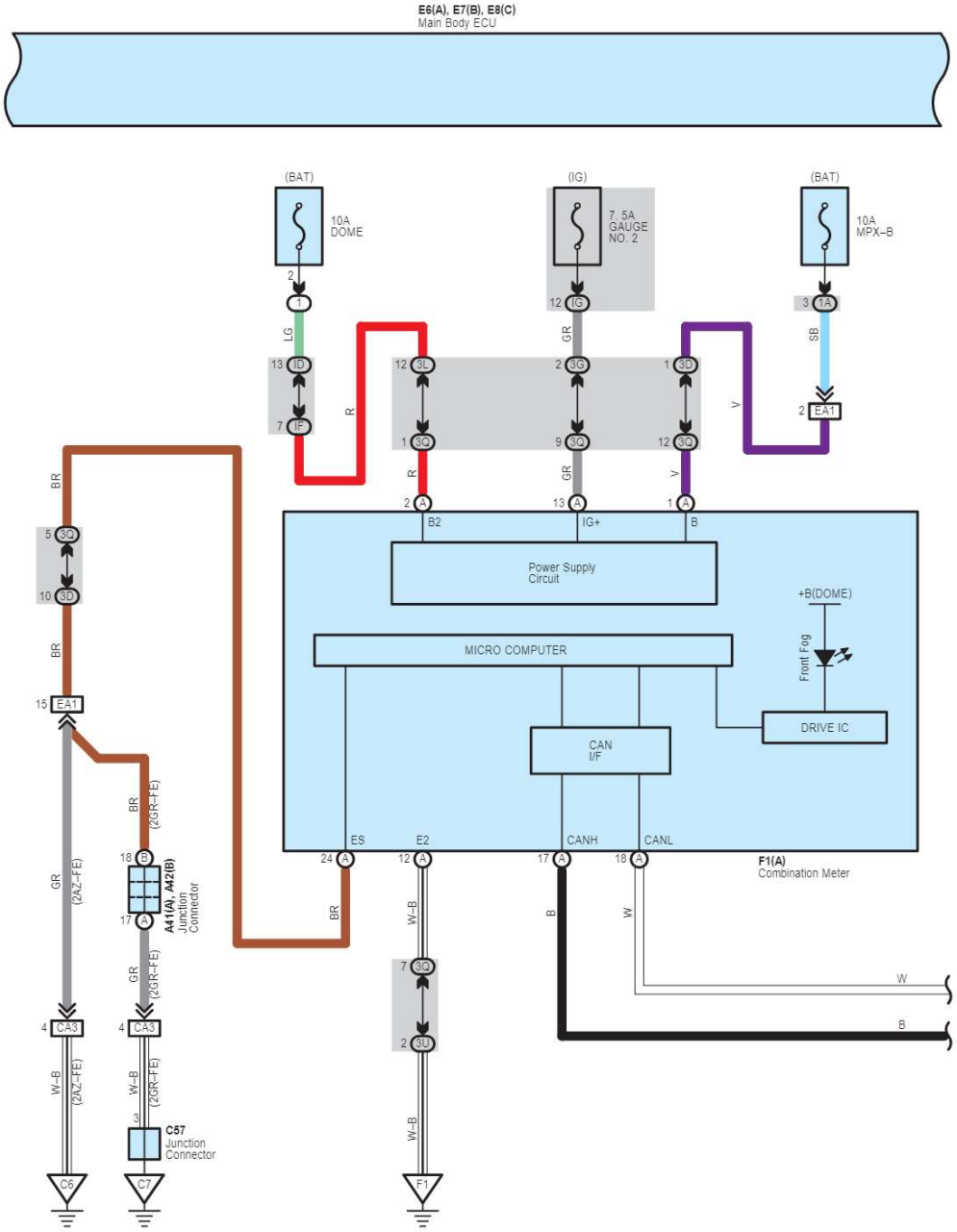
Fog Light

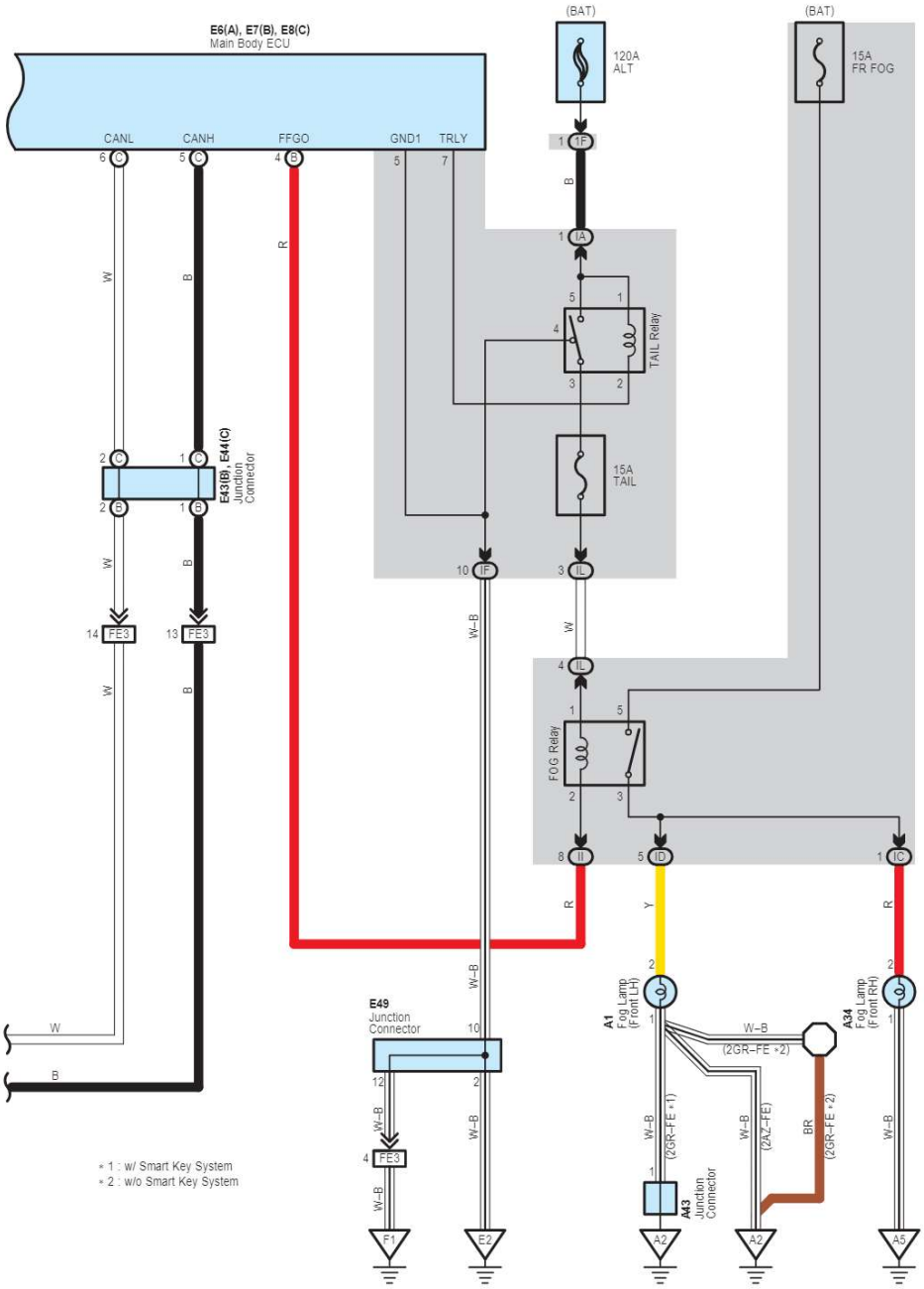

(BAT)
(BAT)
(BAT)
(IG)
(ACC)
25A DOOR NO. 1
10A ECU-B NO. 1
25A DOOR NO. 2
10A ECU IG NO. 1
7. 5A ECU-ACC
E6(A), E7(B), E8(C)
Main Body ECU
ACC
IG
BATB (+1)
BECU (+2)
ALTB
22
15
2
26
6
10
16
2
2
W
O
O
W


E21
Headlamp Dimmer SW Assembly
Dimmer SW
HF
HL
HU
ED
Low
High
Flash
16
W
W

* 1 : w/ Smart Key System
* 2 : w/o Smart Key System




E6(A), E7(B), E8(C)
Main Body ECU
(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
Power Supply
Circuit
MICRO COMPUTER
CAN
I/F
DRIVE IC
+B(DOME)
Front Fog
B2
IG+
B
ES
E2
CANH
CANL
F1(A)
Combination Meter
A41(A), A42(B)
Junction
Connector
C57
Junction
Connector
C6
C7
F1


E6(A), E7(B), E8(C)
Main Body ECU
CANL
CANH
FFGO
GND1
TRLY
(BAT)
120A
ALT
(BAT)
15A
FR FOG
TAIL Relay
15A
TAIL
FOG Relay
E43(B), E44(C)
Junction
Connector
E49
Junction
Connector
A1
Fog Lamp
(Front LH)
A34
Fog Lamp
(From RH)
A43
Junction
Connector
(2GR-FE *1)
(2AZ-FE)
(2GR-FE *2)
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System

Fog Light

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		48 (2GR–FE)	A43		49 (2GR–FE)	E43	B	57
		52 (2AZ–FE)	C57		51 (2GR–FE)	E44	C	57
A34		48 (2GR–FE)	E6	A	56	E49		57
		52 (2AZ–FE)	E7	B	56	F1	A	58
A41	A	59	E8	C	56			
A42	B	59	E21		56			

: 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

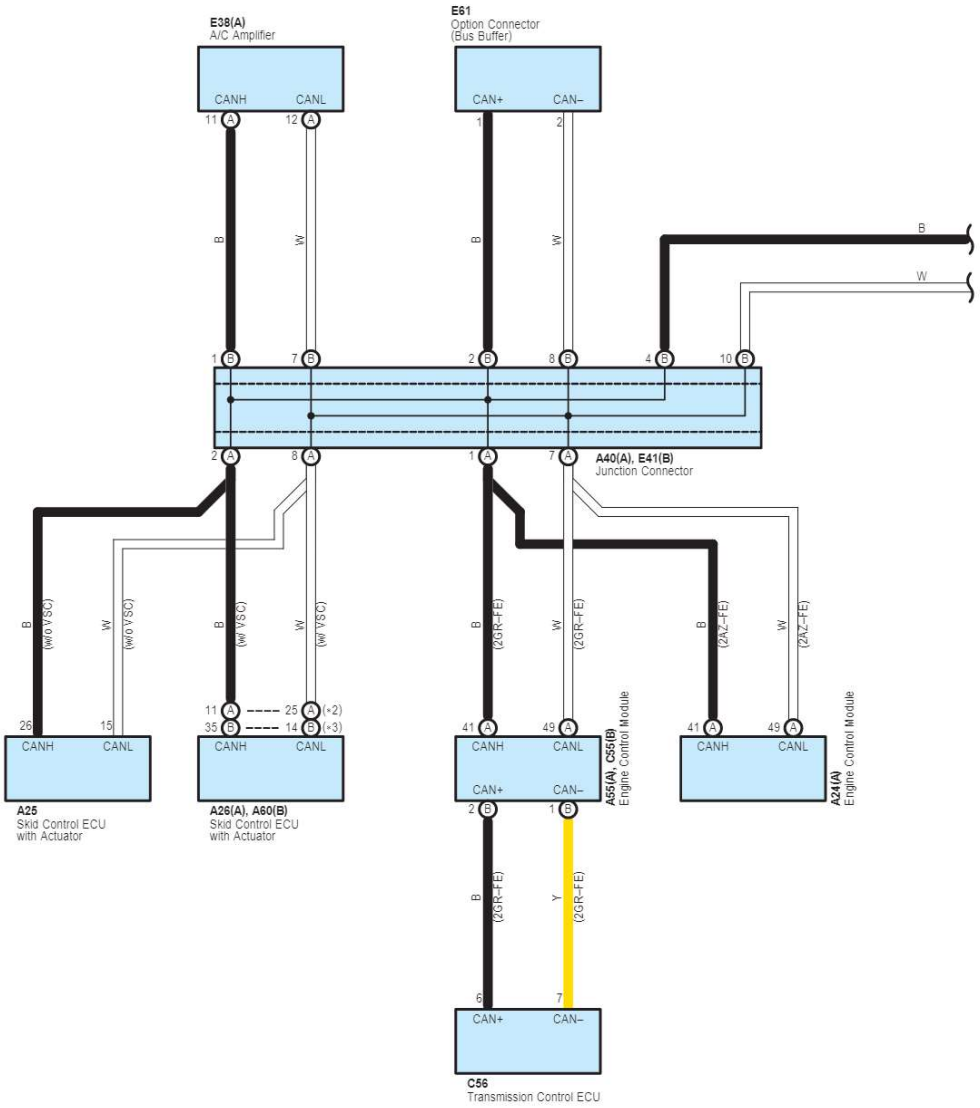
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3N		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4H	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4M		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC		
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		
IL	30	
IM		

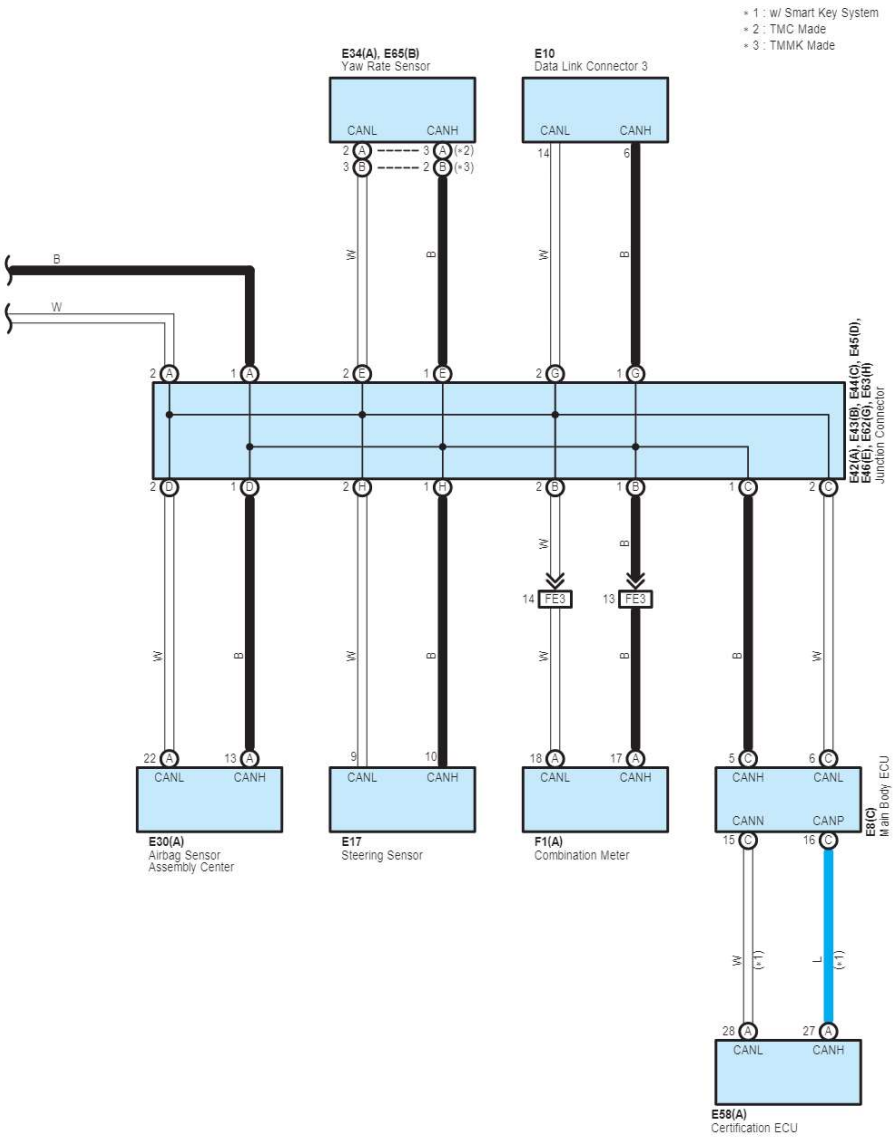
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

: Ground Points

Code	See Page	Ground Points Location
A2	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A5	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left


E38(A)
A/C Amplifier
CANH
CANL
E61
Option Connector
(Bus Buffer)
CAN+
CAN–
A40(A), E41(B)
Junction Connector
(w/o VSC)
(w/ VSC)
(2GR-FE)
(2AZ-FE)
A25
Skid Control ECU
with Actuator
A26(A), A60(B)
Skid Control ECU
with Actuator
A55(A), C55(B)
Engine Control Module
A24(A)
Engine Control Module
C56
Transmission Control ECU


* 1 : w/ Smart Key System
* 2 : TMC Made
* 3 : TMMK Made
E34(A), E65(B)
Yaw Rate Sensor
E10
Data Link Connector 3
CANL
CANH
B
W
E42(A), E43(B), E44(C), E45(D), E46(E), E62(G), E63(H)
Junction Connector
FE3
E30(A)
Airbag Sensor Assembly Center
E17
Steering Sensor
F1(A)
Combination Meter
E8(C)
Main Body ECU
CANN
CANP
E58(A)
Certification ECU

Multiplex Communication System – CAN

System Outline

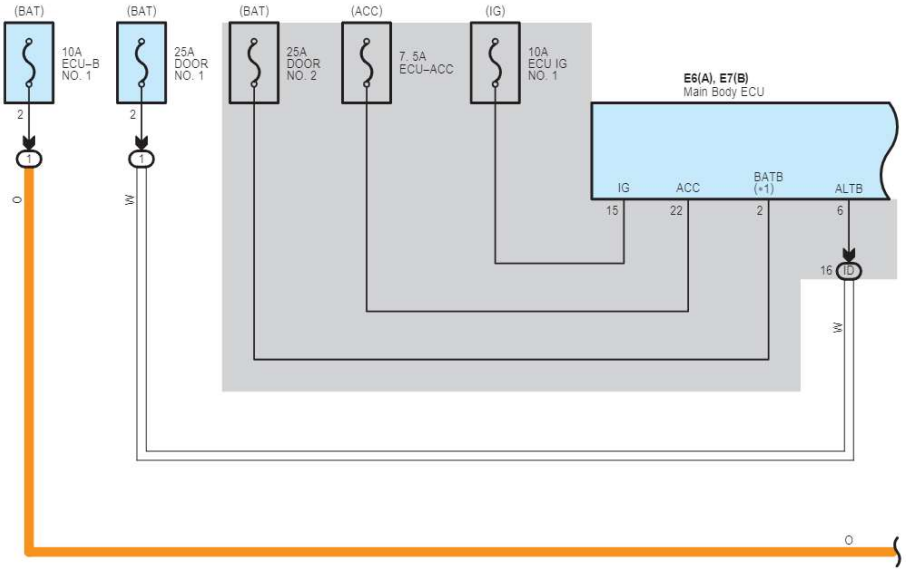
CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as engine control module, yaw rate sensor, skid control ECU with actuator, steering sensor, data link connector 3, A/C amplifier,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

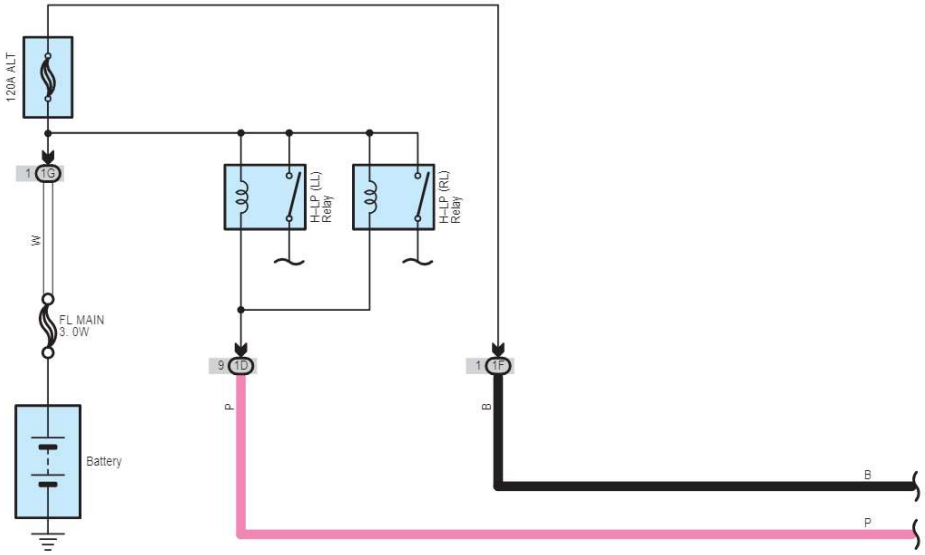
○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A24	A	52 (2AZ–FE)	C56		51 (2GR–FE)	E44	C	57
A25		48 (2GR–FE)	E8	C	56	E45	D	57
		52 (2AZ–FE)	E10		56	E46	E	57
A26	A	48 (2GR–FE)	E17		56	E58	A	57
		52 (2AZ–FE)	E30	A	56	E61		57
A40	A	59	E34	A	57	E62	G	57
A55	A	49 (2GR–FE)	E38	A	57	E63	H	57
A60	B	49 (2GR–FE)	E41	B	57	E65	B	57
		53 (2AZ–FE)	E42	A	57	F1	A	58
C55	B	51 (2GR–FE)	E43	B	57			

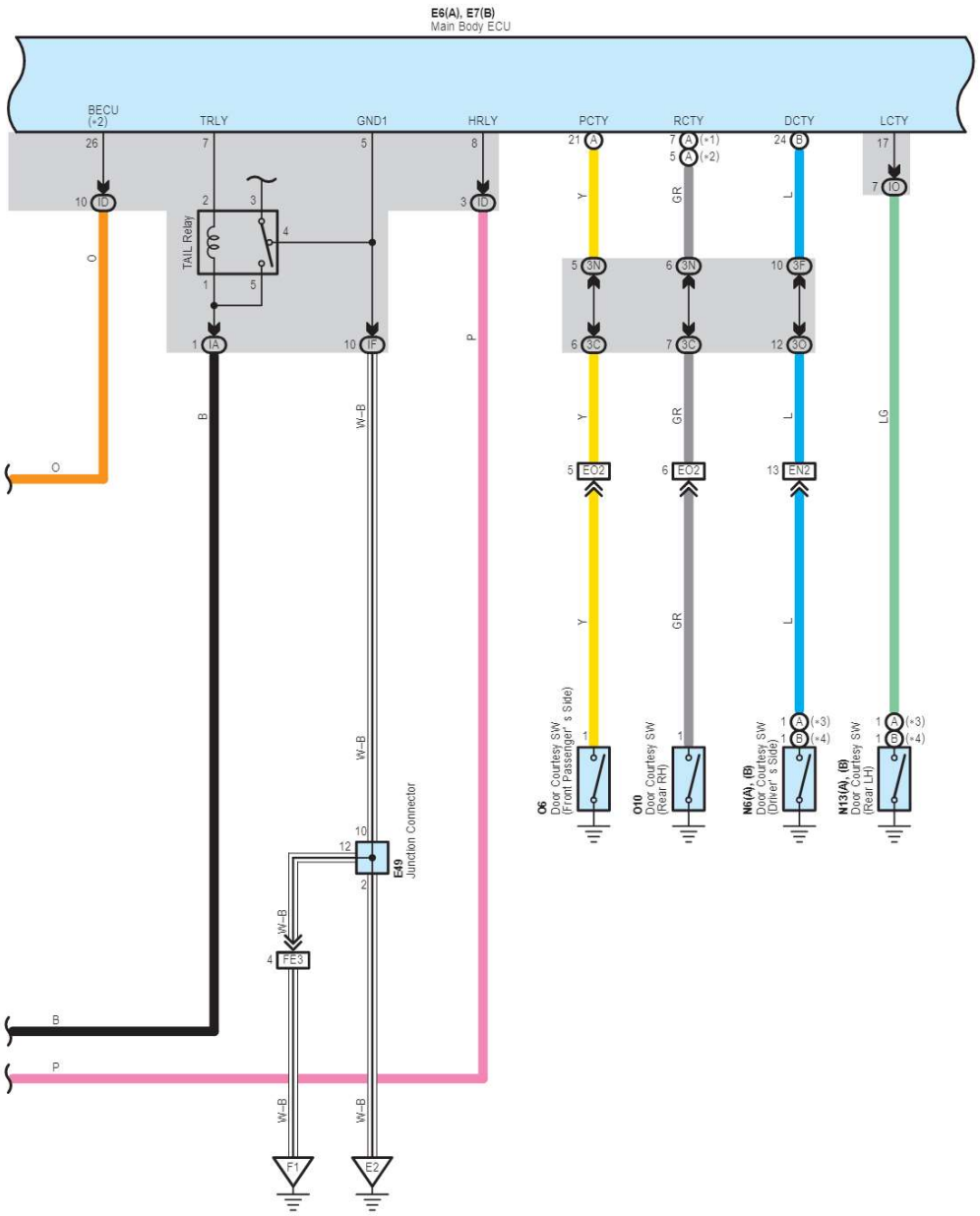
□ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

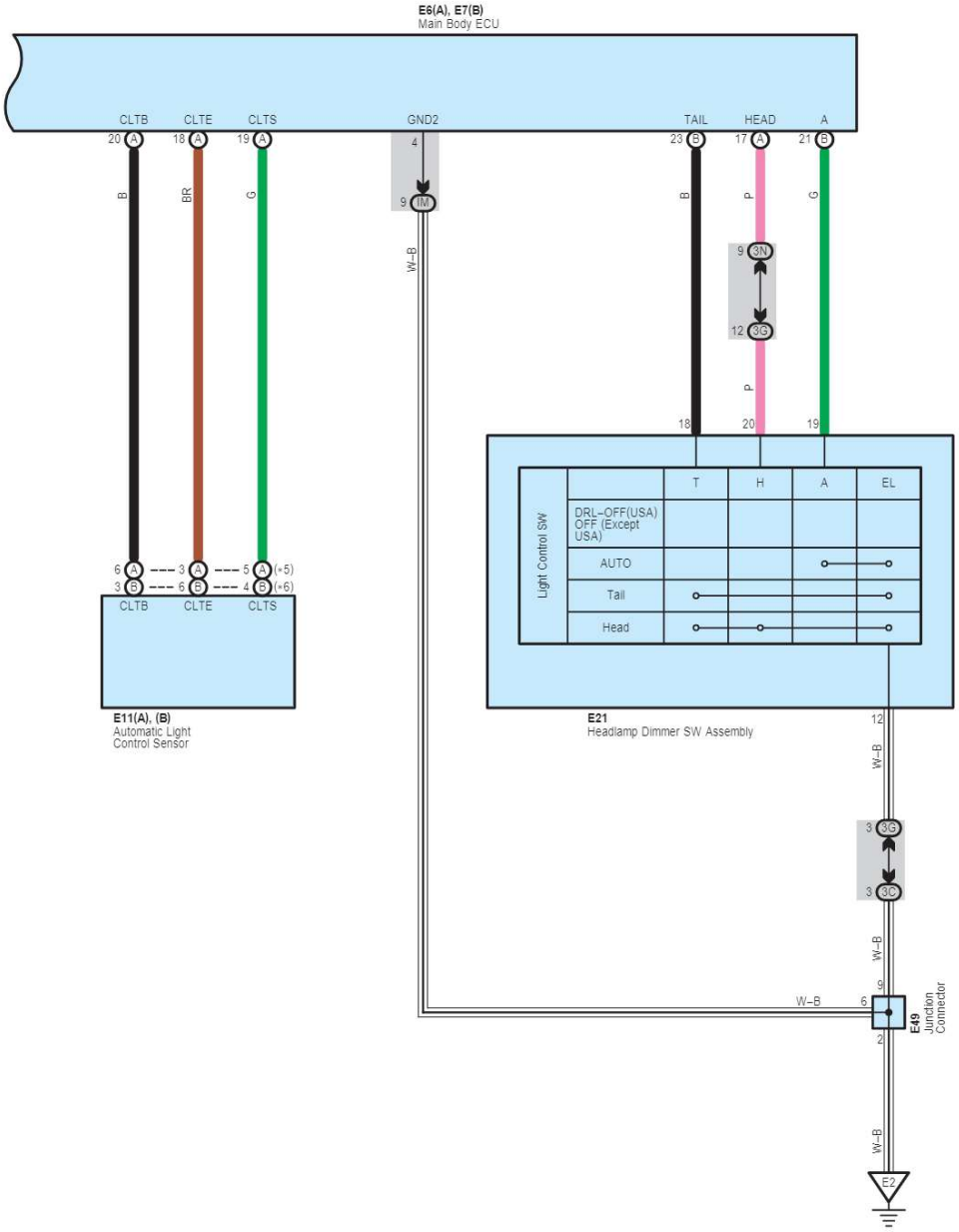

(BAT)
10A
ECU-B
NO. 1
(BAT)
25A
DOOR
NO. 1
(BAT)
25A
DOOR
NO. 2
(ACC)
7. 5A
ECU-ACC
(IG)
10A
ECU IG
NO. 1
E6(A), E7(B)
Main Body ECU
IG
ACC
BATB
(*1)
ALTB
15
22
2
6
16
1D
2
1
O
W
W
O


120A ALT
1
1G
W
FL MAIN
3. 0W
Battery
H-LP (LL)
Relay
H-LP (RL)
Relay
9
1D
P
1
1F
B
B
P

* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 3 : TMC Made
* 4 : TMMK Made



× 5 : Automatic A/C
× 6 : Manual A/C



System Outline

Automatic Light Control Operation

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 tail lamp and headlamp on if the brightness is below the regular level and turns the tail lamp and headlamp off when the surroundings become brighter than the regular level.

Light Auto Turn Off Operation

- When the other lamps than headlamps are lit under 'TAIL' or 'AUTO' condition of the light control SW, the tail lamps and front fog lamps are turned OFF if the power SW is changed from 'IG ON' to 'IG OFF' (Power SW type) or the ignition SW is turned from ON to OFF (Ignition SW type), and the driver side door is opened from closed condition.
- When the headlamps are lit under 'HEAD' or 'AUTO' condition of the light control SW, if the power SW is changed from 'IG ON' to 'IG OFF' (Power SW type) or the ignition SW is turned from ON to OFF (Ignition SW type), and the light OFF delay time (30 seconds) has passed since all the doors are closed from open condition or under all the door locked condition, operating the wireless door lock function turns OFF the headlamps, tail lamps and front fog lamps.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
E6	A	56	E21		56	N13	A	60
E7	B	56	E49		57		B	60
E11	A	56	N6	A	60	O6		60
	B	56		B	60	O10		60

▭ : 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

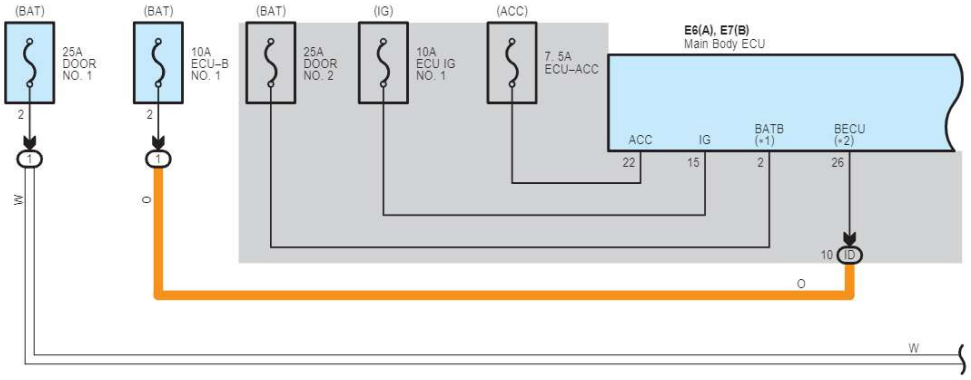
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
3G		
3N		
3O		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

▭ : Connector Joining Wire Harness and Wire Harness

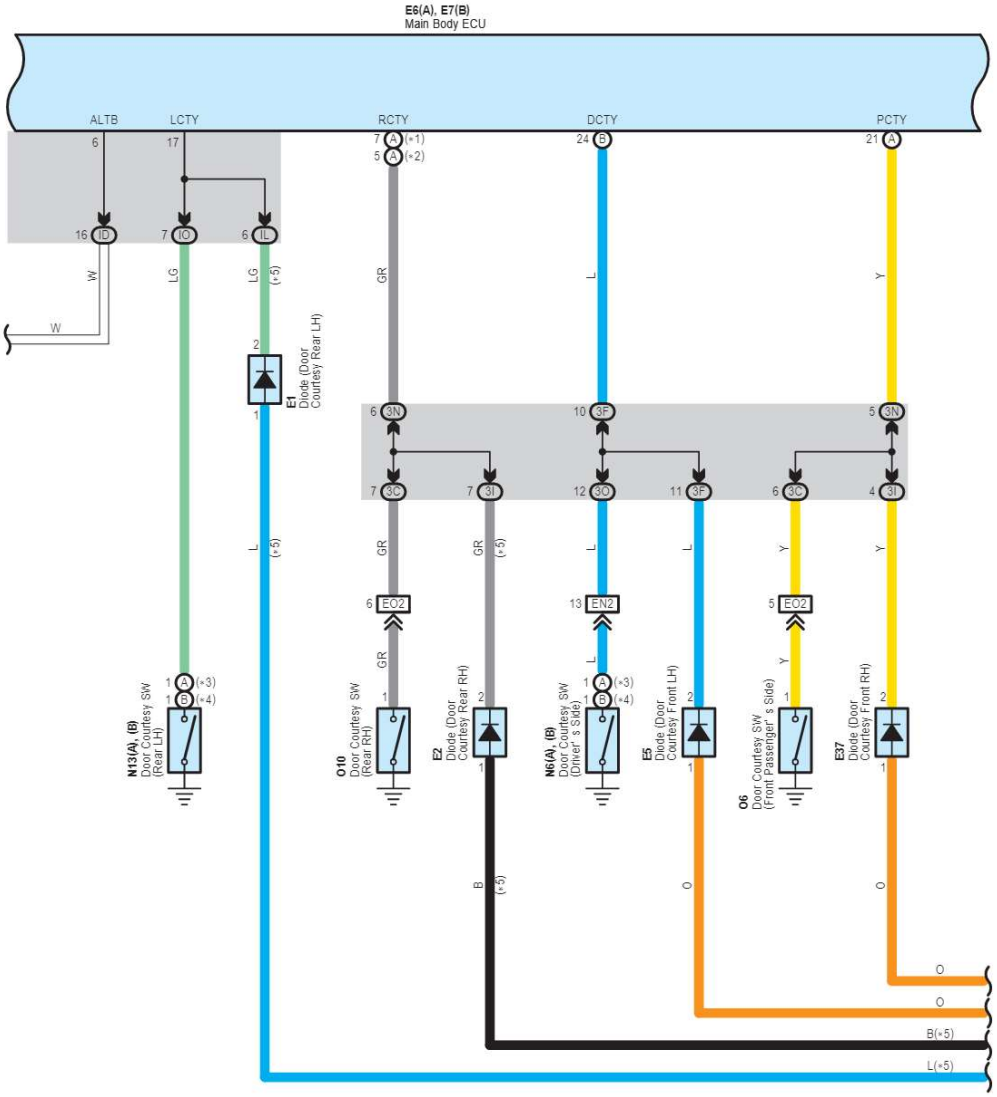
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

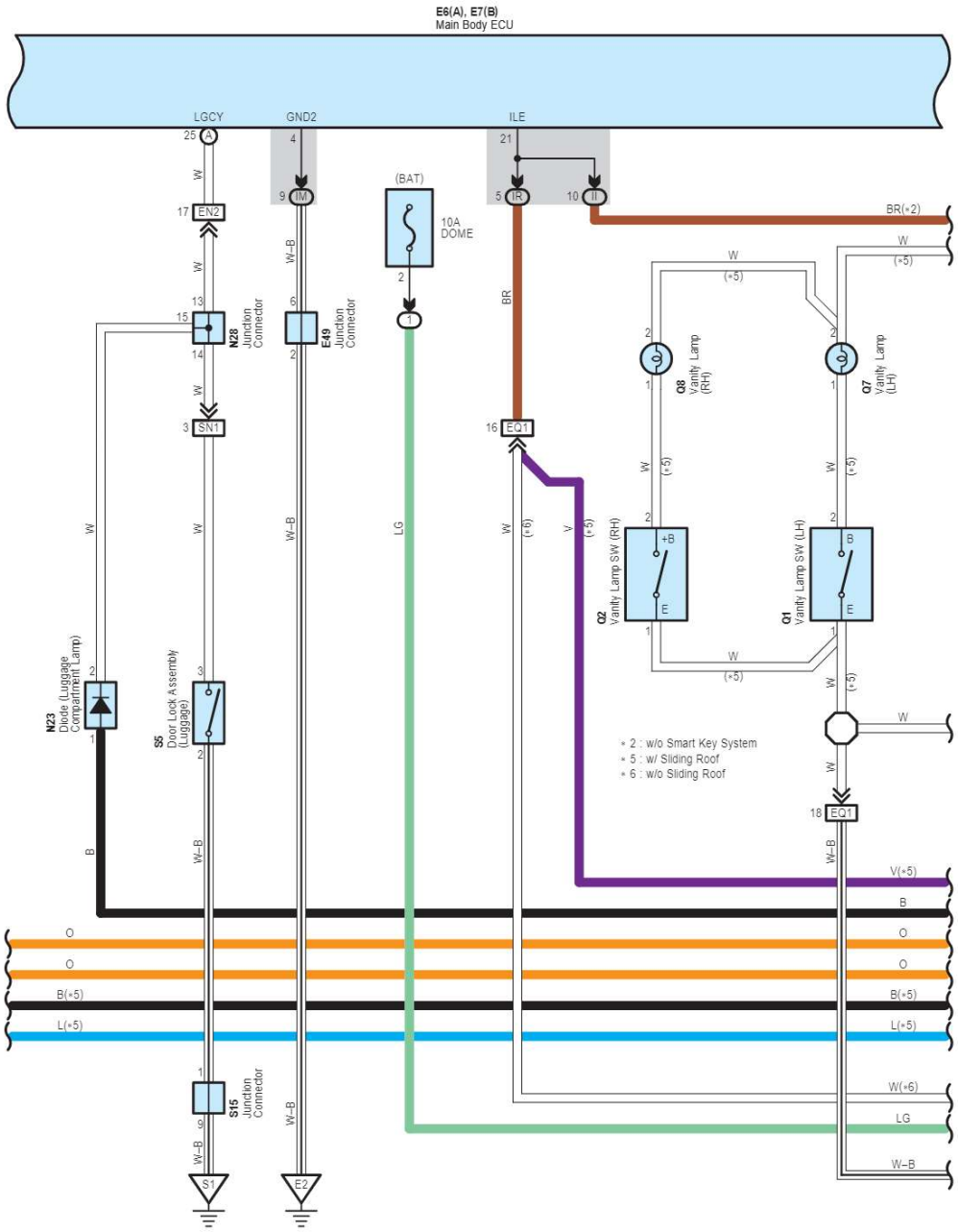
▽ : Ground Points

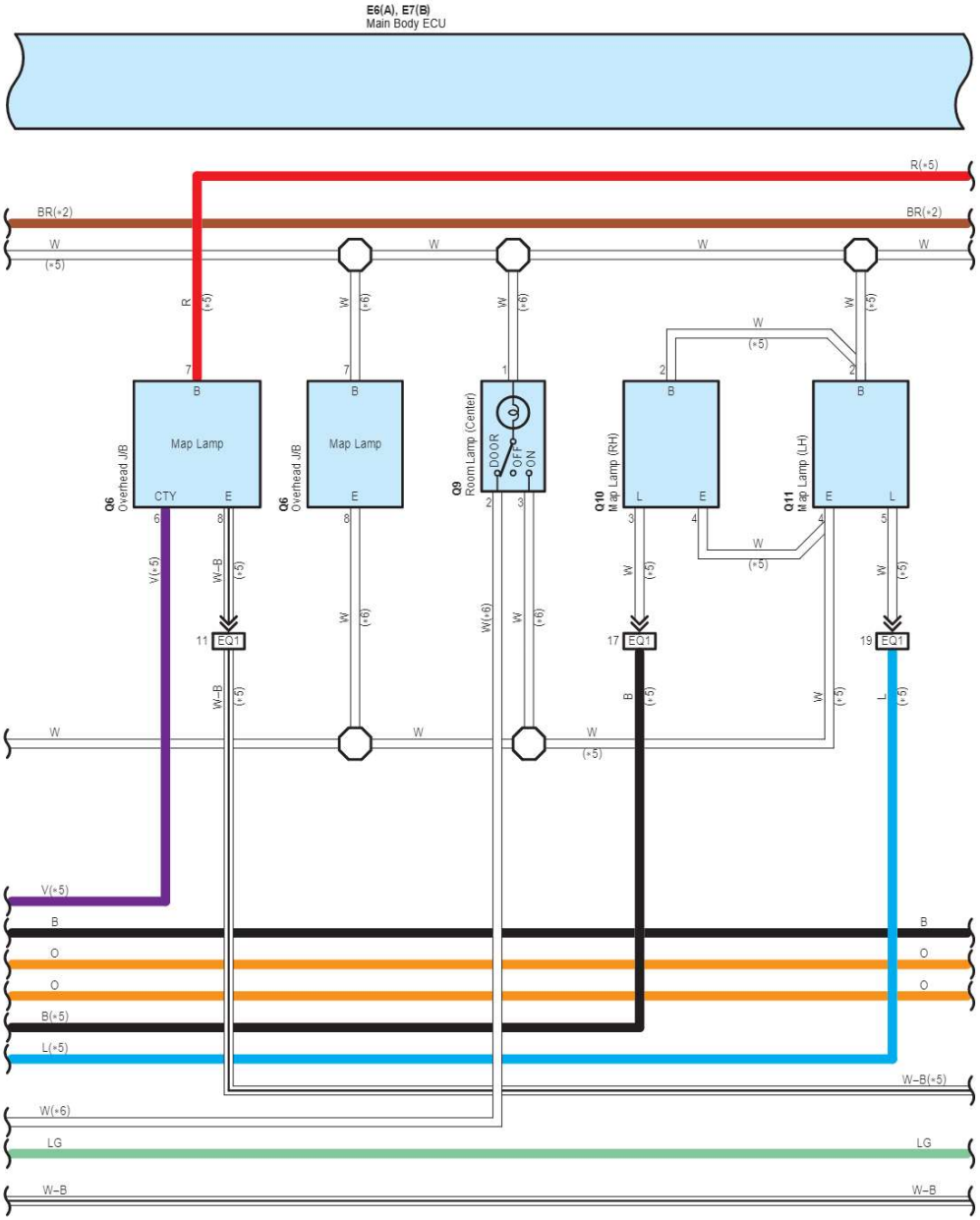
Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

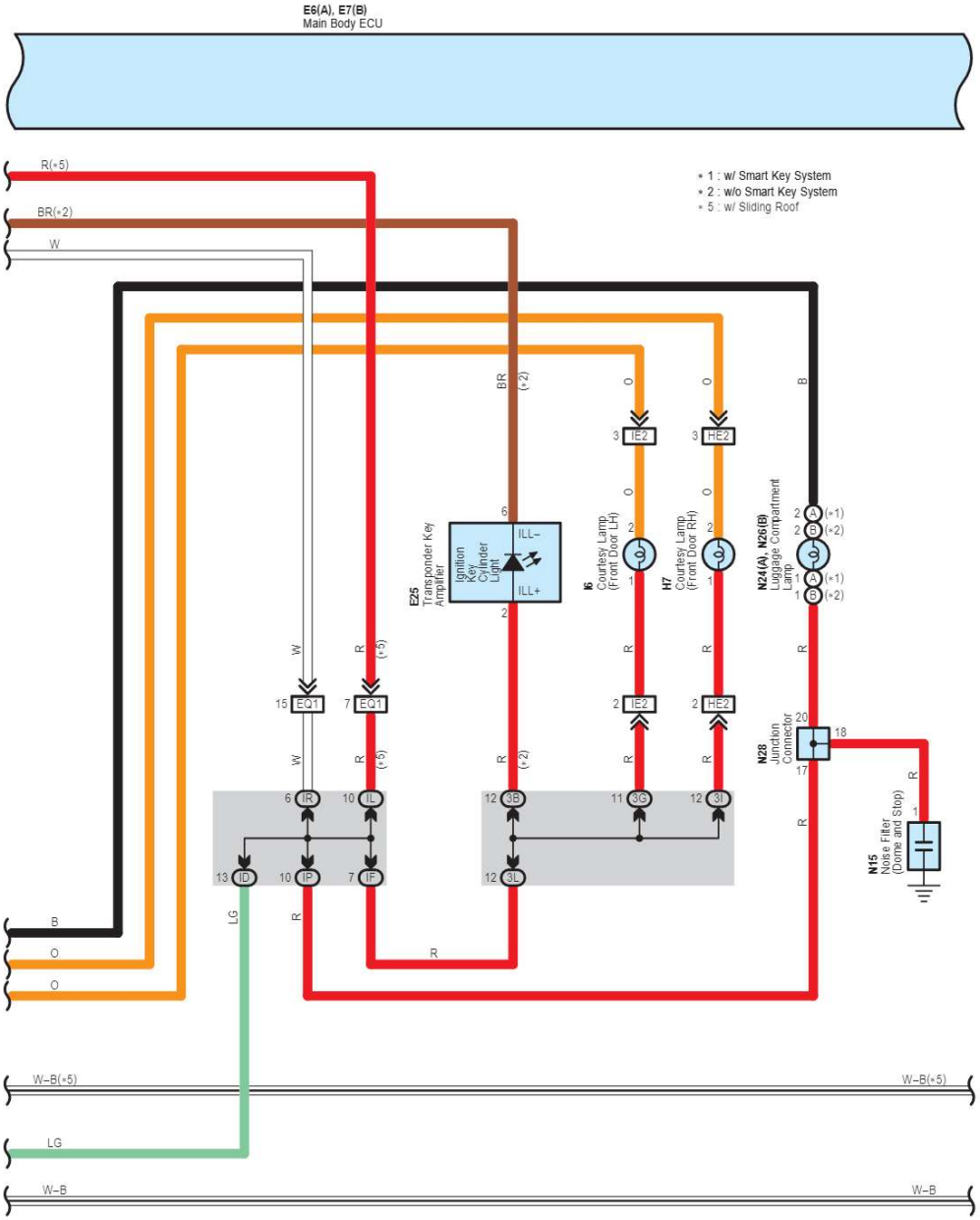


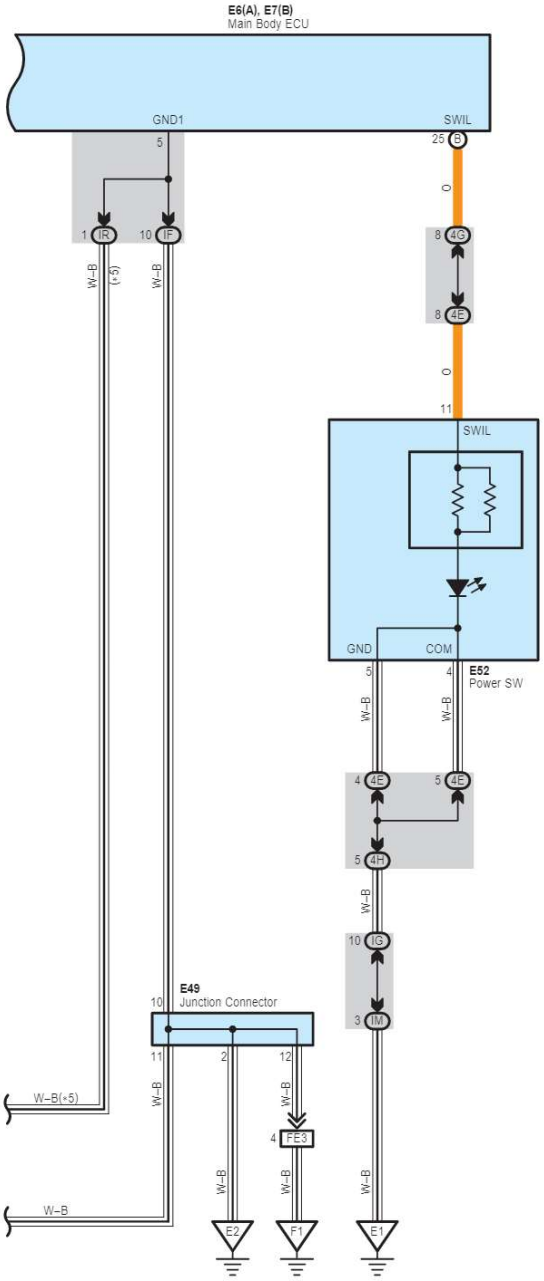
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 3 : TMC Made
* 4 : TMMK Made
* 5 : w/ Sliding Roof


E6(A), E7(B)
Main Body ECU
ALTB
LCTY
RCTY
DCTY
PCTY
E1
Diode (Door Courtesy Rear LH)
N13(A), (B)
Door Courtesy SW (Rear LH)
O10
Door Courtesy SW (Rear RH)
E2
Diode (Door Courtesy Rear RH)
N6(A), (B)
Door Courtesy SW (Driver's Side)
E5
Diode (Door Courtesy Front LH)
O6
Door Courtesy SW (Front Passenger's Side)
E37
Diode (Door Courtesy Front RH)
B(+5)
L(+5)


E6(A), E7(B)
Main Body ECU
LGCY
GND2
ILE
(BAT)
10A
DOME
BR(*2)
Q8
Vanity Lamp
(RH)
Q7
Vanity Lamp
(LH)
Q2
Vanity Lamp SW (RH)
Q1
Vanity Lamp SW (LH)
N28
Junction
Connector
E49
Junction
Connector
N23
Diode (Luggage
Compartment Lamp)
S5
Door Lock Assembly
(Luggage)
S15
Junction
Connector
* 2 : w/o Smart Key System
* 5 : w/ Sliding Roof
* 6 : w/o Sliding Roof


E6(A), E7(B)
Main Body ECU
R(*5)
BR(*2)
BR(*2)
W
(*5)
W
W
W
R
(*5)
W
(*6)
W
(*6)
W
(*5)
W
(*5)
7
B
Map Lamp
CTY
E
Q6
Overhead J/B
7
B
Map Lamp
E
Q6
Overhead J/B
1
2
3
DOOR
OFF
ON
Q9
Room Lamp (Center)
2
B
L
E
Q10
Map Lamp (RH)
2
B
E
L
Q11
Map Lamp (LH)
6
8
8
2
3
3
4
4
5
V(*5)
W–B
(*5)
W
(*6)
W(*6)
W
(*6)
W
(*5)
W
(*5)
W
(*5)
11
EQ1
17
EQ1
19
EQ1
W–B
(*5)
B
(*5)
W
(*5)
L
(*5)
W
W
W
(*5)
V(*5)
B
B
O
O
O
O
B(*5)
L(*5)
W–B(*5)
W(*6)
LG
LG
W–B
W–B


E6(A), E7(B)
Main Body ECU
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 5 : w/ Sliding Roof
R(*5)
BR(*2)
W
B
O
O
LG
W–B(*5)
W–B
E25
Transponder Key Amplifier
Ignition Key Cylinder Light
ILL–
ILL+
I6
Courtesy Lamp (Front Door LH)
H7
Courtesy Lamp (Front Door RH)
N24(A), N26(B)
Luggage Compartment Lamp
N28
Junction Connector
N15
Noise Filter (Dome and Stop)
IE2
HE2
EQ1
IR
IL
IP
IF
ID
3B
3G
3I
3L


E6(A), E7(B)
Main Body ECU
GND1
SWIL
5
25 B
0
1 1R
10 1F
8 4G
8 4E
W–B
(*5)
W–B
0
11
SWIL
GND
COM
E52
Power SW
9
4
W–B
W–B
4 4E
5 4E
5 4H
W–B
10 1G
3 1M
E49
Junction Connector
10
11
2
12
W–B(*5)
W–B
W–B
4 FE3
W–B
W–B
W–B
W–B
E2
F1
E1

Interior Light

System Outline

1. Dome Light and Ignition Key Illumination Function

When any door is opened, the dome light (If SW is set to 'DOOR') and ignition key cylinder light are lit in fade–in manner. Then when all the doors are closed (Any door is unlocked), the illumination is kept ON with the timer for approximately for 15 seconds and then is turned OFF in fade–out manner when the timer is completed.

2. Battery Saver Function

If the illumination is kept on for 20 minutes with a door open, it is turned OFF automatically.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
E1	56	N6 A	60	Q1	61
E2	56	N6 B	60	Q2	61
E5	56	N13 A	60	Q6	61
E6 A	56	N13 B	60	Q7	61
E7 B	56	N15	60	Q8	61
E25	56	N23	60	Q9	61
E37	57	N24 A	60	Q10	61
E49	57	N26 B	60	Q11	61
E52	57	N28	60	S5	61
H7	61	O6	60	S15	61
I6	61	O10	60		

▭ : 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

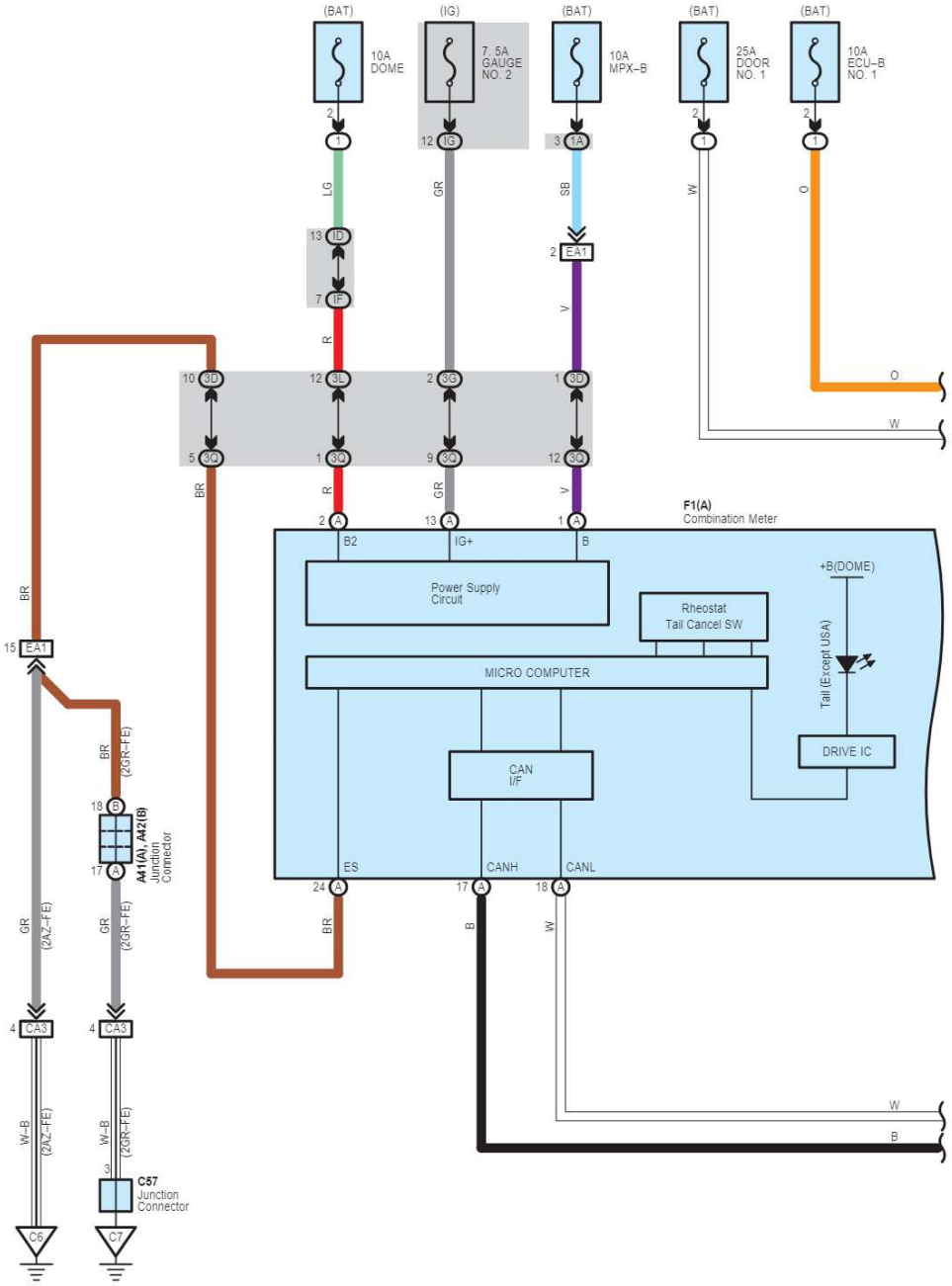
Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3F		
3G		
3I		
3L		
3N		
3O		
4E	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4G		
4H		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		
IL	30	
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IP		
IR	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

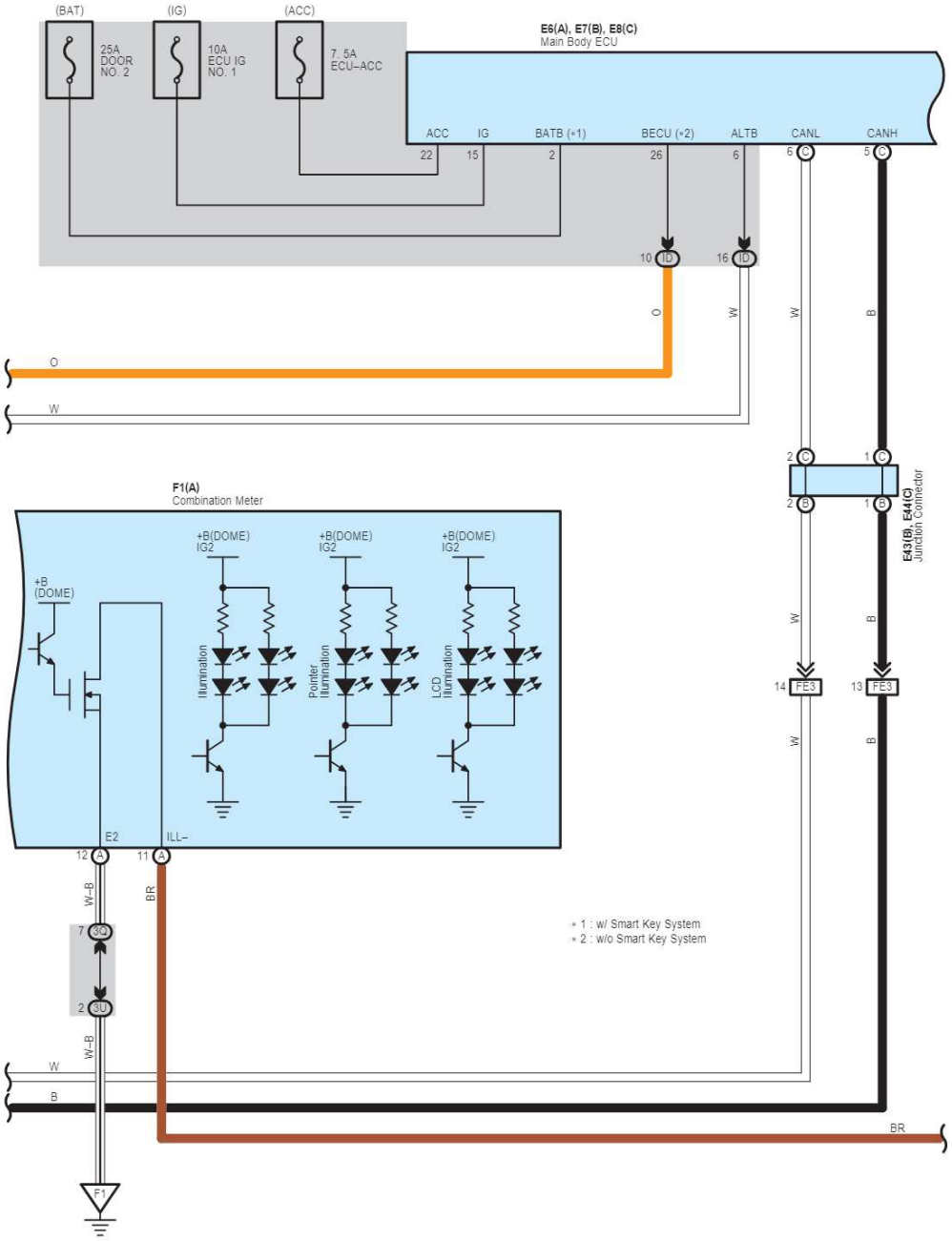
: **Connector Joining Wire Harness and Wire Harness**

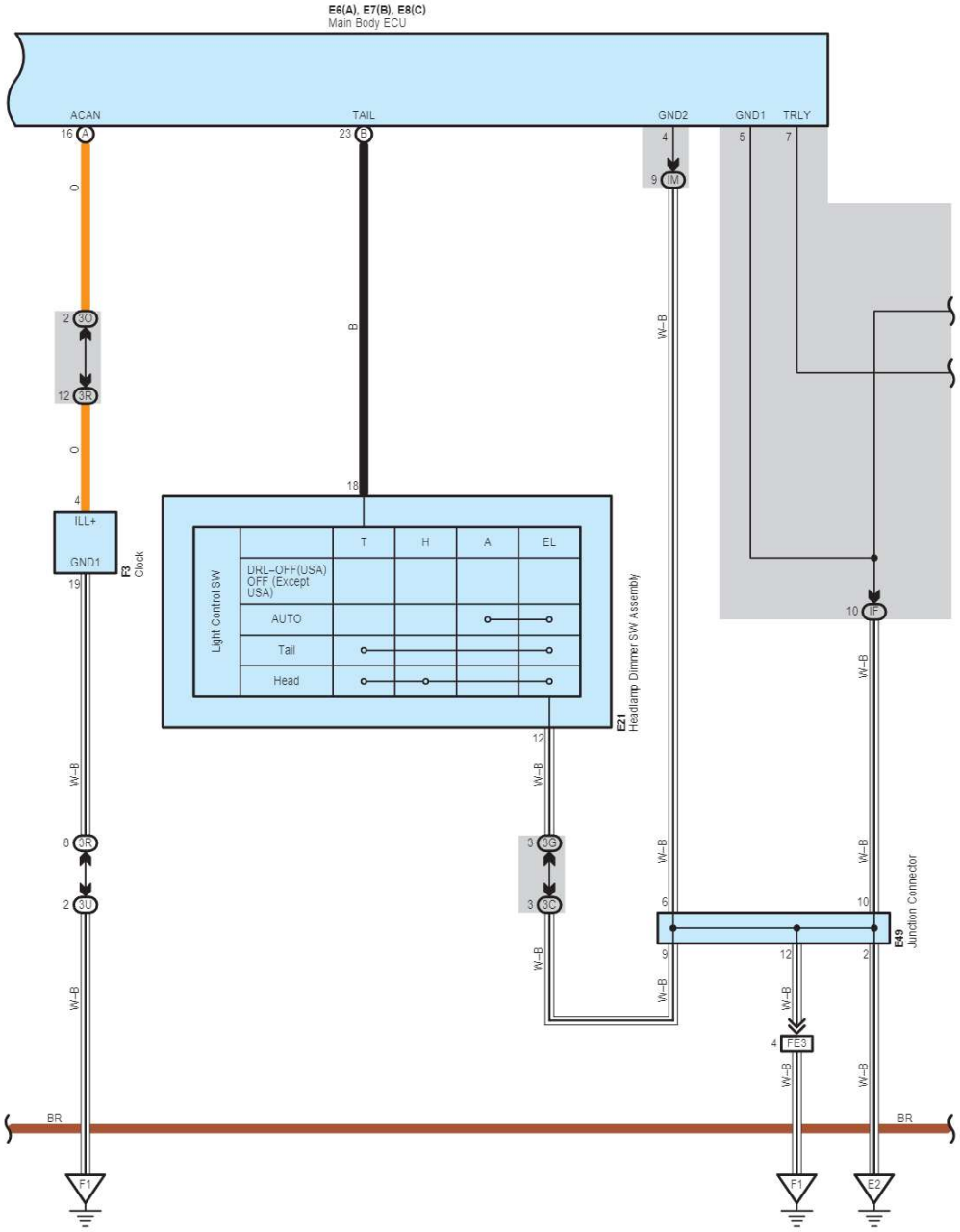
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

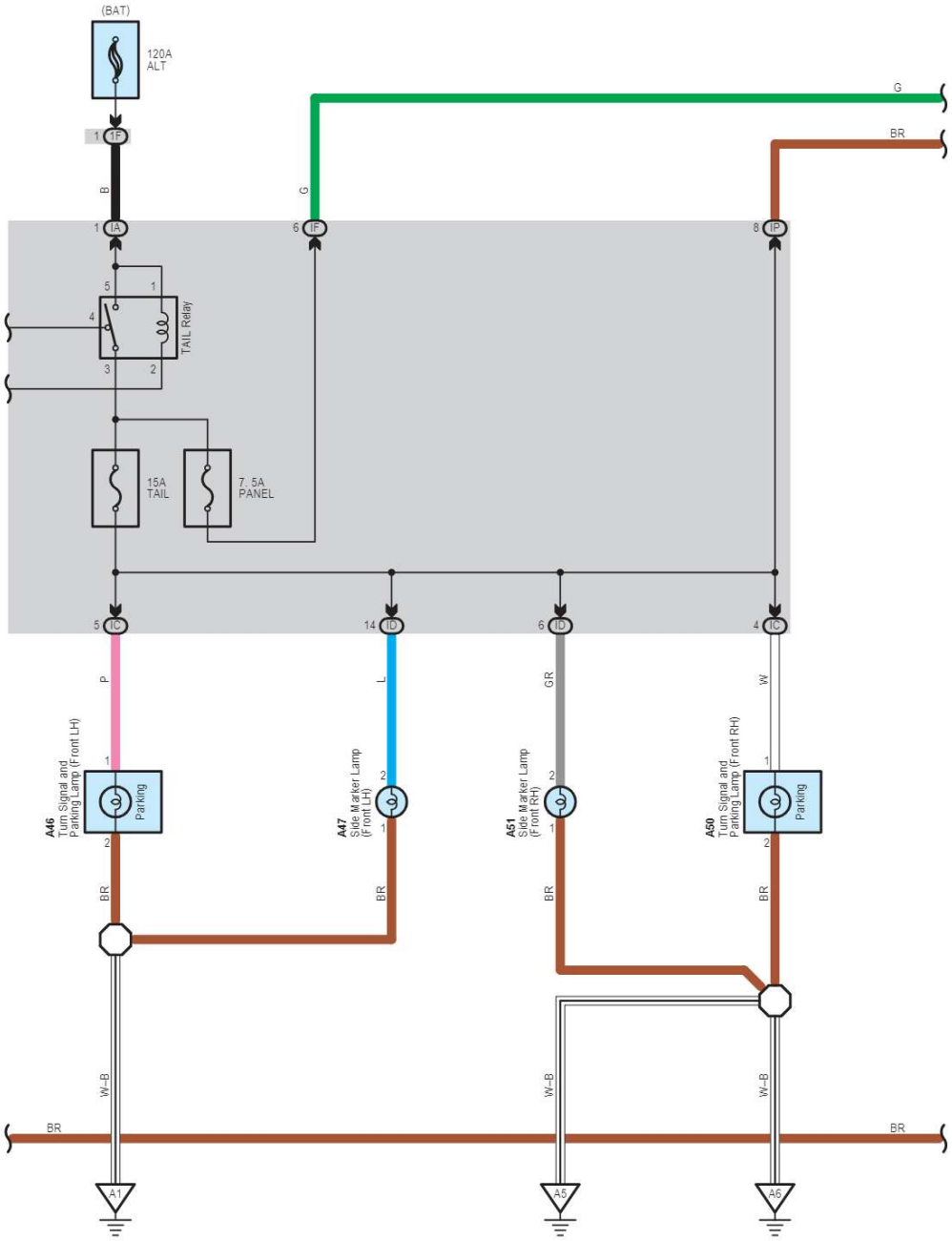
: **Ground Points**

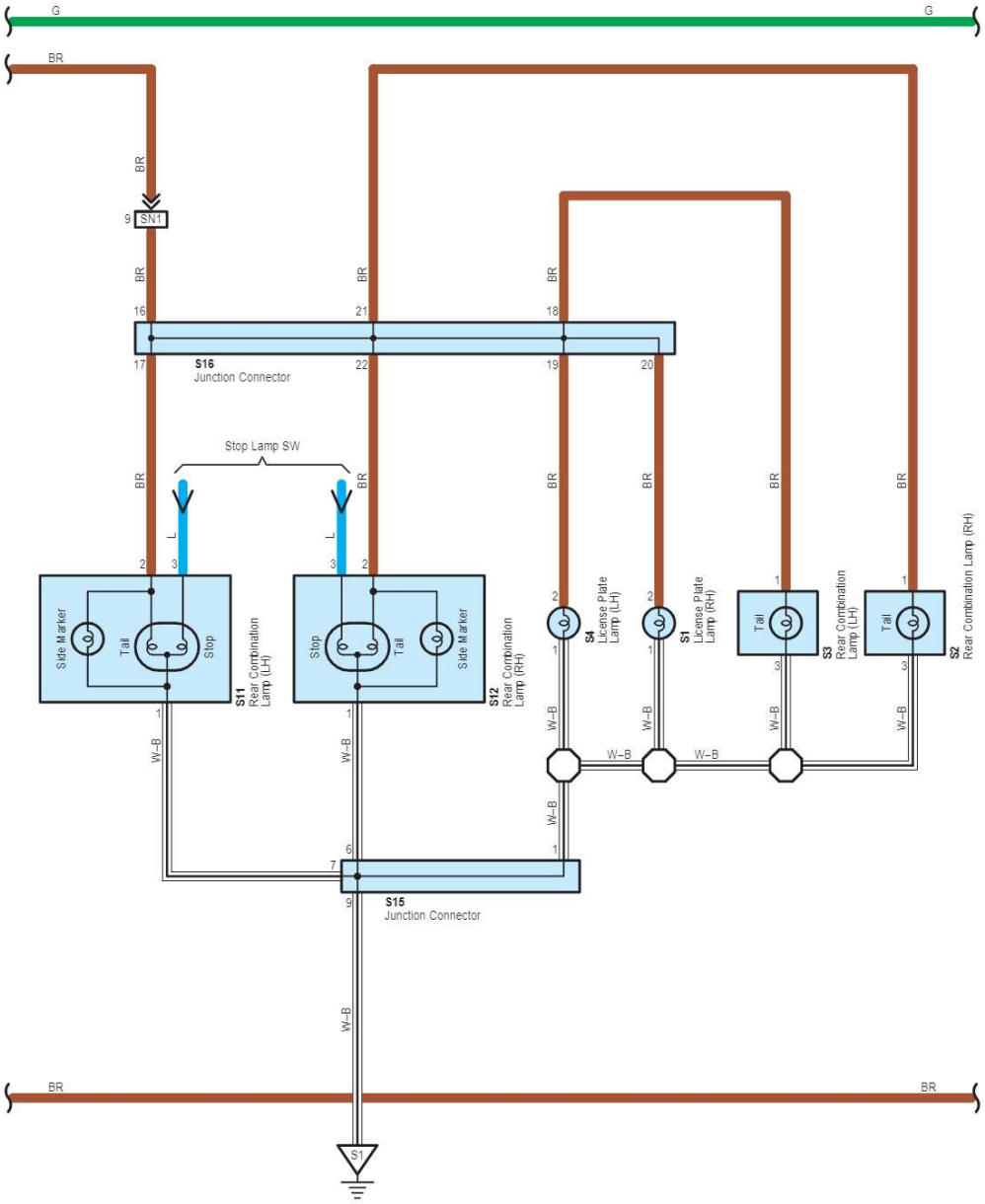
Code	See Page	Ground Points Location
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
S1	67	Lower Back Panel Center

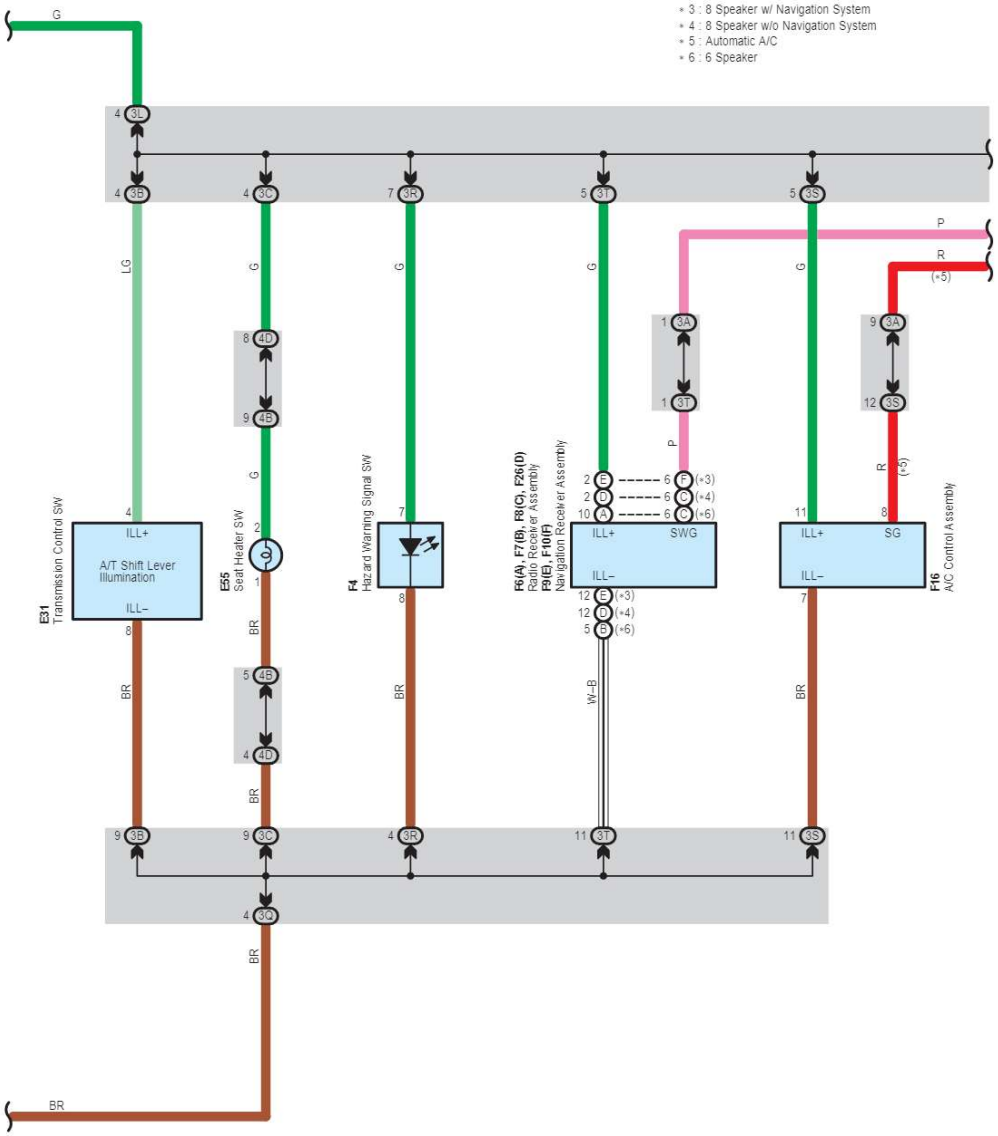

(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
25A
DOOR
NO. 1
(BAT)
10A
ECU–B
NO. 1
F1(A)
Combination Meter
B2
IG+
B
Power Supply
Circuit
Rheostat
Tail Cancel SW
MICRO COMPUTER
+B(DOME)
Tail (Except USA)
DRIVE IC
CAN
I/F
ES
CANH
CANL
A41(A), A42(B)
Junction
Connector
C57
Junction
Connector
C6
C7


(BAT)
(IG)
(ACC)
25A DOOR NO. 2
10A ECU IG NO. 1
7. 5A ECU–ACC
E6(A), E7(B), E8(C)
Main Body ECU
ACC
IG
BATB (*1)
BECU (*2)
ALTB
CANL
CANH
22
15
2
26
6
6
5
10 ID
16 ID
O
W
W
B
O
W
2 C
1 C
2 B
1 B
E43(B), E44(C)
Junction Connector
F1(A)
Combination Meter
+B (DOME)
+B(DOME) IG2
+B(DOME) IG2
+B(DOME) IG2
Illumination
Pointer Illumination
LCD Illumination
E2
ILL–
12 A
11 A
W
B
14 FE3
13 FE3
W–B
BR
7 3Q
2 3U
W–B
W
B
BR
F1
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System

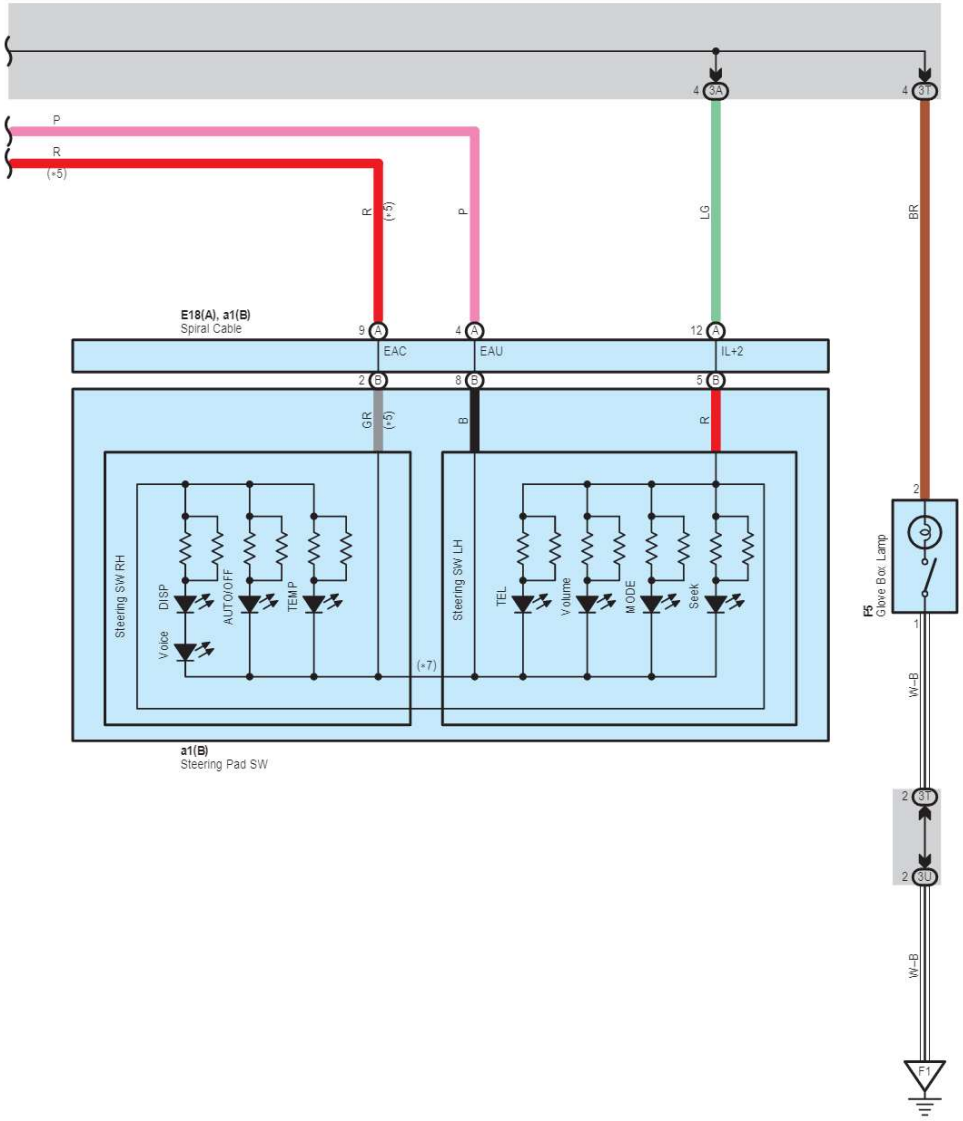

E6(A), E7(B), E8(C)
Main Body ECU
ACAN
TAIL
GND2
GND1
TRLY
16 A
23 B
4
5
7
9 IM
10 IF
2 3O
12 3R
8 3R
2 3U
3 3G
3 3C
6
10
9
12
2
4 FE3
18
4
19
ILL+
GND1
F3
Clock
Light Control SW
T
H
A
EL
DRL–OFF(USA)
OFF (Except USA)
AUTO
Tail
Head
E21
Headlamp Dimmer SW Assembly
E49
Junction Connector
W–B
B
BR
F1
F1
E2


(BAT)
120A
ALT
1F
B
G
BR
1A
6F
8P
TAIL Relay
15A
TAIL
7.5A
PANEL
5C
14D
6D
4C
P
L
GR
W
A46
Turn Signal and
Parking Lamp (Front LH)
Parking
A47
Side Marker Lamp
(Front LH)
A51
Side Marker Lamp
(Front RH)
A50
Turn Signal and
Parking Lamp (Front RH)
W-B
A1
A5
A6


G
G
BR
BR
9 SN1
BR
16
21
18
17
22
19
20
S16
Junction Connector
Stop Lamp SW
BR
BR
BR
BR
BR
BR
L
L
2
3
3
2
Side Marker
Tail
Stop
S11
Rear Combination
Lamp (LH)
Stop
Tail
Side Marker
S12
Rear Combination
Lamp (RH)
2
1
S4
License Plate
Lamp (LH)
2
1
S1
License Plate
Lamp (RH)
1
3
Tail
S3
Rear Combination
Lamp (LH)
1
3
Tail
S2
Rear Combination Lamp (RH)
W–B
W–B
W–B
W–B
W–B
W–B
W–B
1
6
7
9
S15
Junction Connector
W–B
BR
BR
S1


* 3 : 8 Speaker w/ Navigation System
* 4 : 8 Speaker w/o Navigation System
* 5 : Automatic A/C
* 6 : 6 Speaker
G
LG
BR
P
R
(+5)
E31
Transmission Control SW
A/T Shift Lever Illumination
ILL+
ILL−
E55
Seat Heater SW
F4
Hazard Warning Signal SW
F6(A), F7(B), F8(C), F26(D)
P9(E), F10(F)
Radio Receiver Assembly
Navigation Receiver Assembly
SWG
W−B
F16
A/C Control Assembly
SG
(+3)
(+4)
(+6)

* 5 : Automatic A/C
* 7 : Manual A/C



○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A41	A	59	E18	A	56	F9	E	58
A42	B	59	E21		56	F10	F	58
A46		49 (2GR–FE)	E31		56	F16		58
		53 (2AZ–FE)	E43	B	57	F26	D	58
A47		49 (2GR–FE)	E44	C	57	S1		61
		53 (2AZ–FE)	E49		57	S2		61
A50		49 (2GR–FE)	E55		57	S3		61
		53 (2AZ–FE)	F1	A	58	S4		61
A51		49 (2GR–FE)	F3		58	S11		61
		53 (2AZ–FE)	F4		58	S12		61
C57		51 (2GR–FE)	F5		58	S15		61
E6	A	56	F6	A	58	S16		61
E7	B	56	F7	B	58	a1	B	59
E8	C	56	F8	C	58			

⬭ : **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**

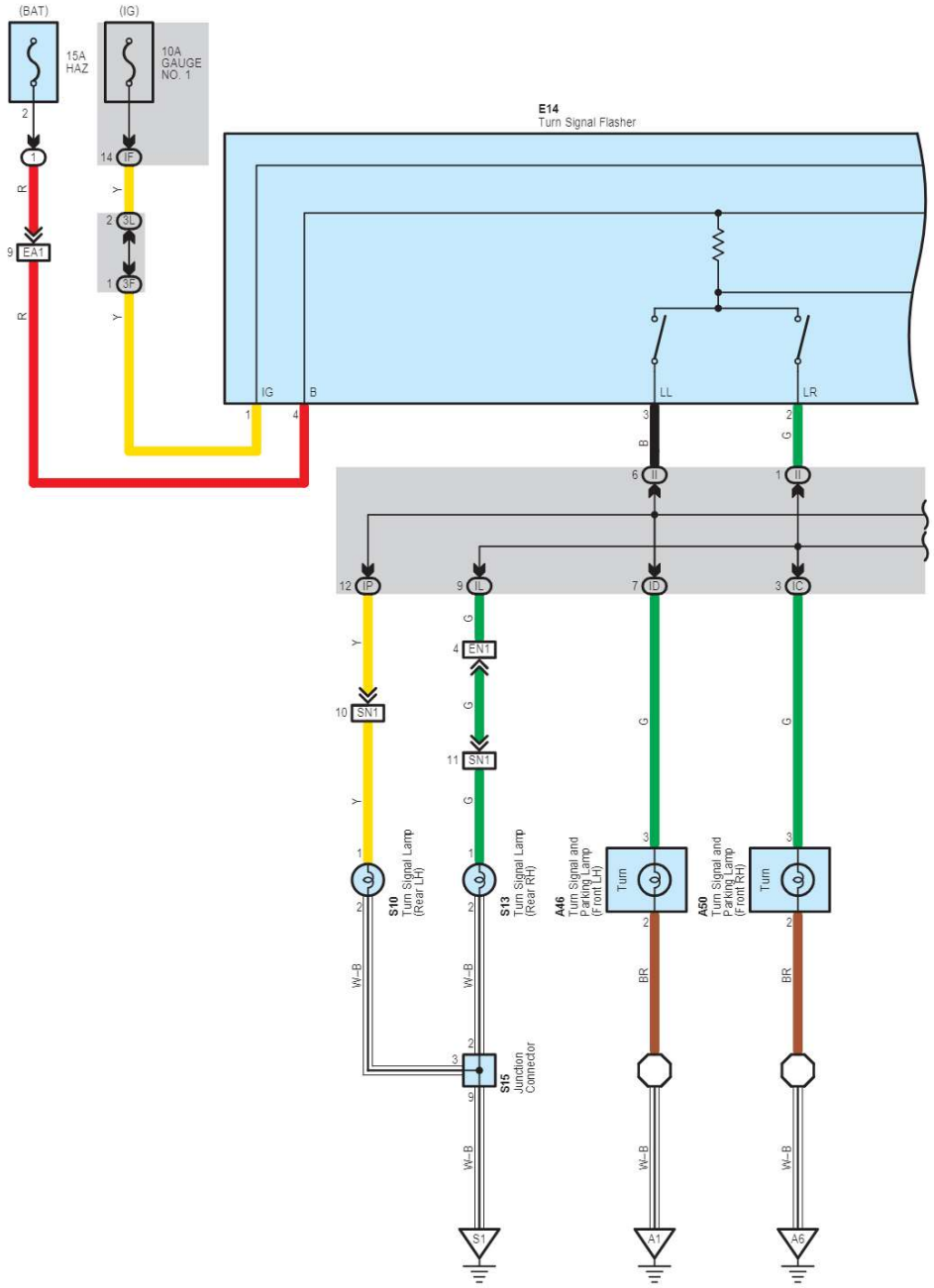
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3G		
3L		
3O		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3R		
3S		
3T		
3U		
4B	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4D		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC		
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IM	30	
IP	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

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

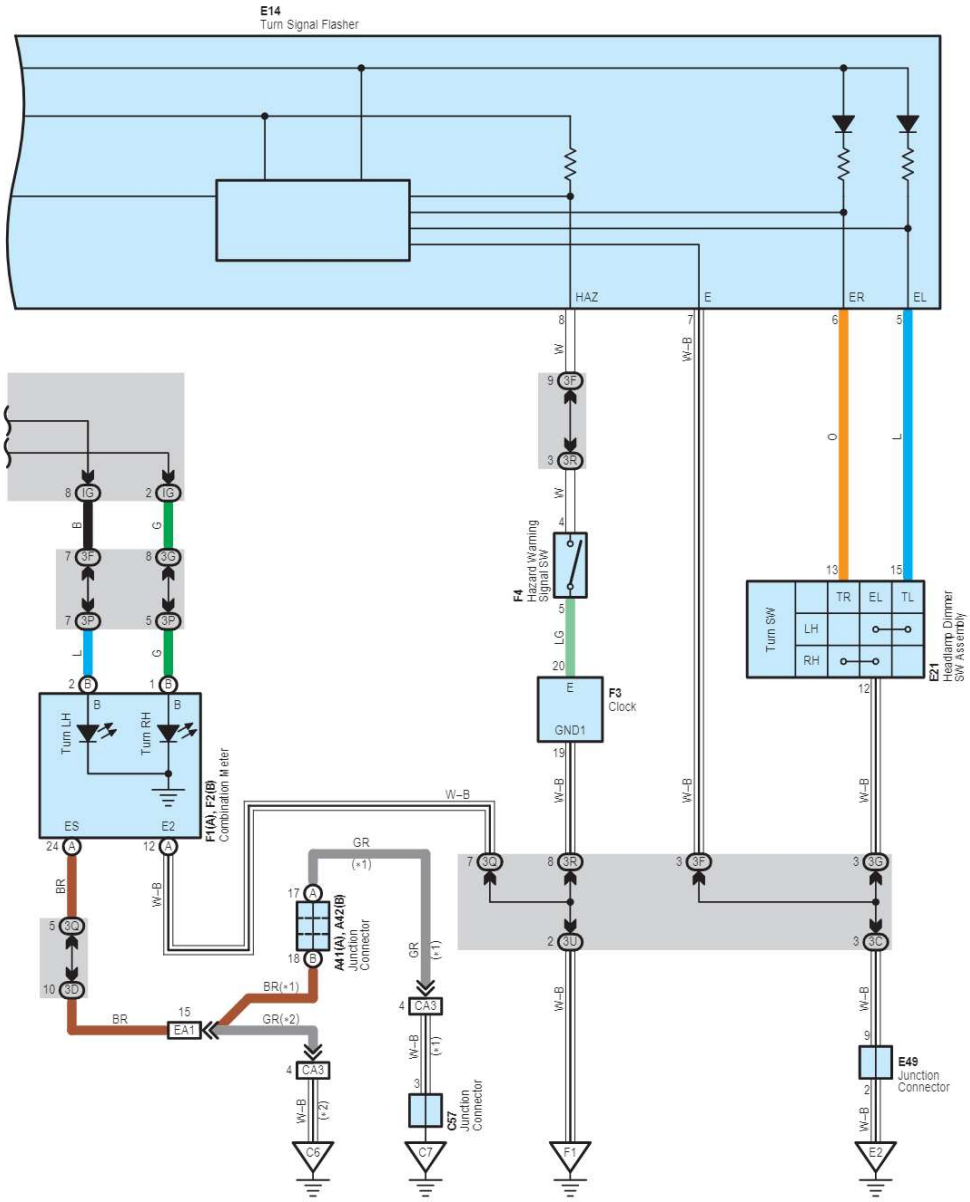
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A5	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
S1	67	Lower Back Panel Center


(BAT)
(IG)
15A
HAZ
10A
GAUGE
NO. 1
E14
Turn Signal Flasher
IG
B
LL
LR
EA1
SL
SF
IP
IL
ID
IC
IT
EN1
SN1
S10
Turn Signal Lamp
(Rear LH)
S13
Turn Signal Lamp
(Rear RH)
S15
Junction
Connector
A46
Turn Signal and
Parking Lamp
(Front LH)
A50
Turn Signal and
Parking Lamp
(Front RH)
Turn
S1
A1
A6

*1 : 2GR-FE
*2 : 2AZ-FE



Turn Signal and Hazard Warning Light

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A41	A	59	C57		51 (2GR–FE)	F3	58
A42	B	59	E14		56	F4	58
A46		49 (2GR–FE)	E21		56	S10	61
		53 (2AZ–FE)	E49		57	S13	61
A50		49 (2GR–FE)	F1	A	58	S15	61
		53 (2AZ–FE)	F2	B	58		

: 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)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3F		
3G		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3R		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
II		
IL	30	
IP	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

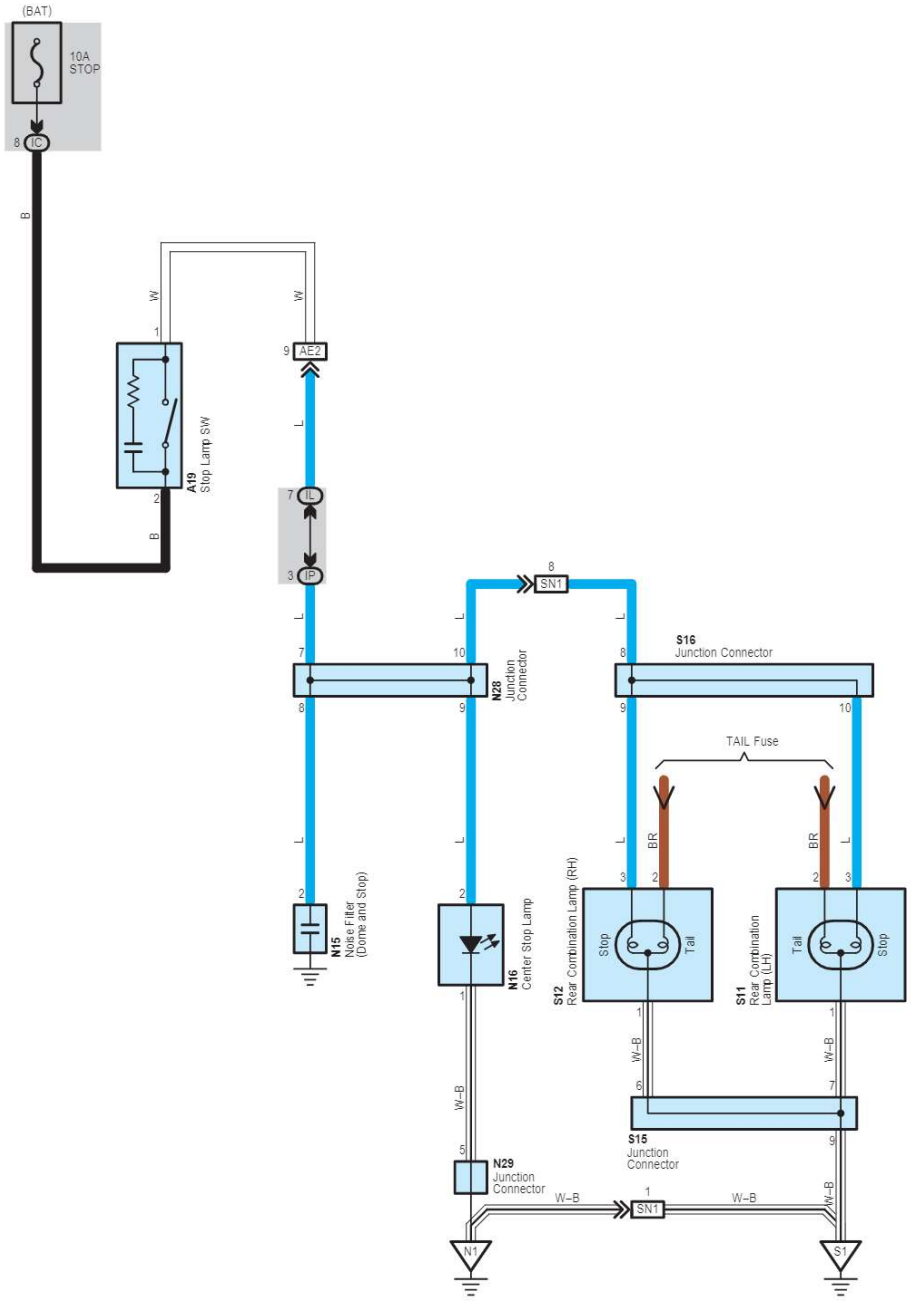
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

: Ground Points

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
S1	67	Lower Back Panel Center

Stop Light


(BAT)
10A
STOP
8 IC
B
W
1
9 AE2
A19
Stop Lamp SW
2
B
L
7 IL
3 IP
8
SN1
L
7
10
N28
Junction
Connector
8
9
S16
Junction Connector
8
9
10
TAIL Fuse
BR
BR
L
L
L
L
2
N15
Noise Filter
(Dome and Stop)
2
N16
Center Stop Lamp
1
3
2
S12
Rear Combination Lamp (RH)
Stop
Tail
2
3
S11
Rear Combination
Lamp (LH)
Tail
Stop
1
W-B
6
1
W-B
7
W-B
5
N29
Junction
Connector
S15
Junction
Connector
9
W-B
1
SN1
W-B
W-B
N1
S1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A19	59	N28	60	S12	61
N15	60	N29	60	S15	61
N16	60	S11	61	S16	61

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

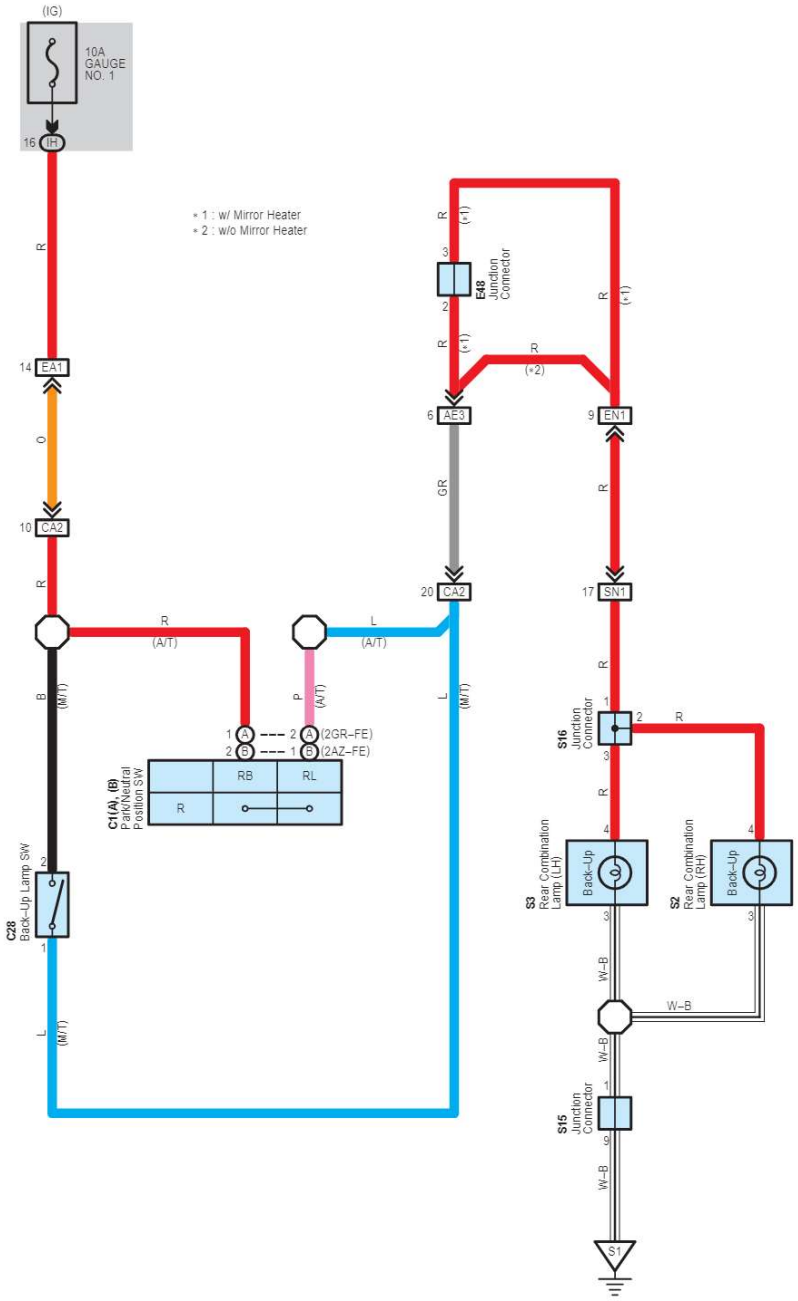
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IL	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IP	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

▽ : **Ground Points**

Code	See Page	Ground Points Location
N1	67	Left Rear Quarter Panel
S1	67	Lower Back Panel Center


(IG)
10A
GAUGE
NO. 1
16 IH
* 1 : w/ Mirror Heater
* 2 : w/o Mirror Heater
R
14 EA1
O
10 CA2
R
B
(M/T)
R
(A/T)
L
(A/T)
P
(A/T)
L
(M/T)
20 CA2
GR
6 AE3
R (*1)
3
2
E48
Junction
Connector
R (*1)
R (*2)
9 EN1
R
17 SN1
R
1
2 R
S16
Junction
Connector
3
R
4
1 A ---- 2 A (2GR–FE)
2 B ---- 1 B (2AZ–FE)
C1(A), (B)
Park/Neutral
Position SW
RB
RL
R
C28
Back–Up Lamp SW
2
1
L
(M/T)
S3
Rear Combination
Lamp (LH)
Back–Up
3
W–B
S2
Rear Combination
Lamp (RH)
4
Back–Up
3
W–B
W–B
1
S15
Junction
Connector
9
W–B
S1

○ : **Parts Location**

Code		See Page	Code	See Page	Code	See Page
C1	A	50 (2GR–FE)	E48	57	S15	61
	B	54 (2AZ–FE)	S2	61	S16	61
C28		55 (2AZ–FE)	S3	61		

: **Junction Block and Wire Harness Connector**

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

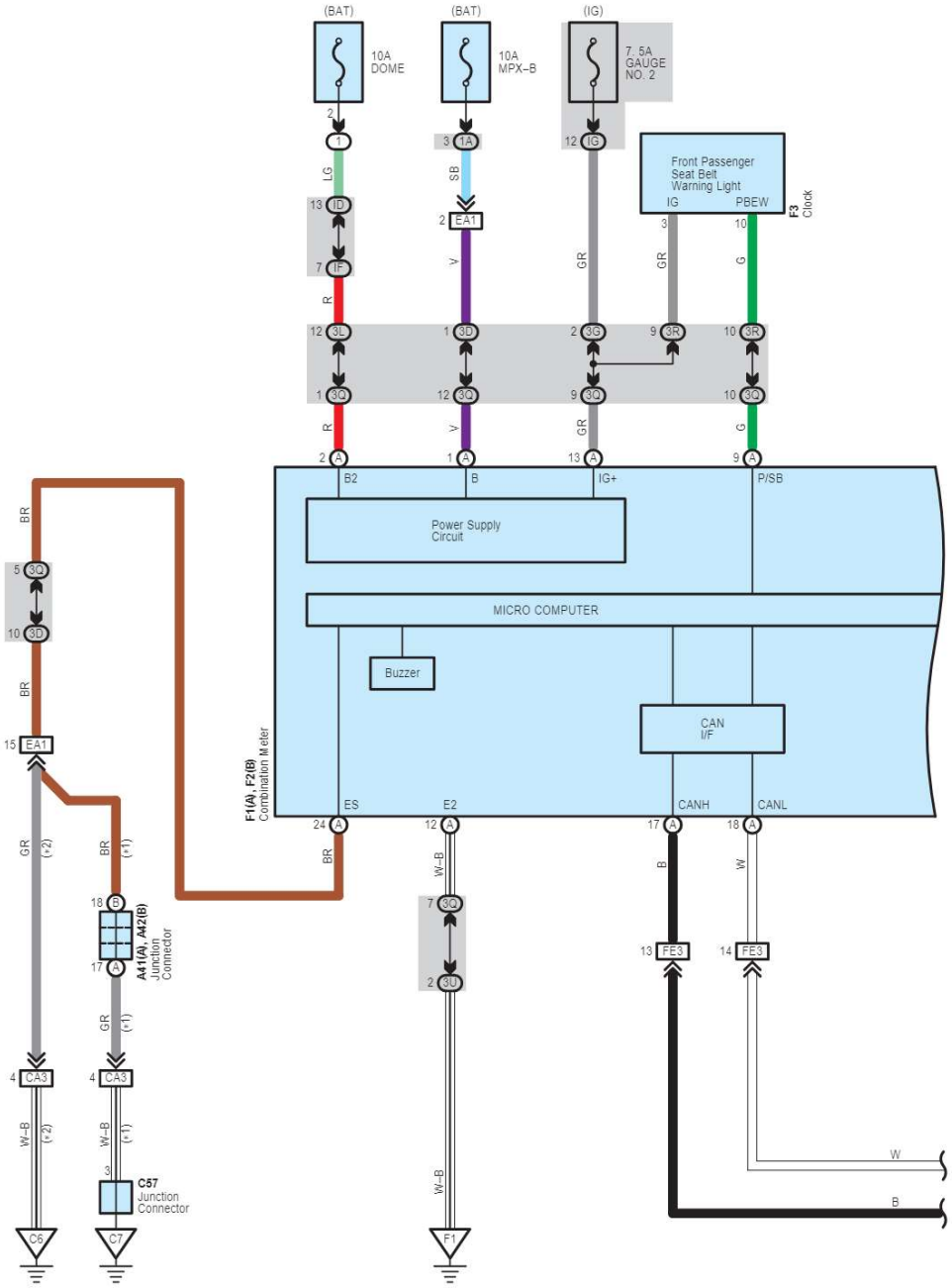
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

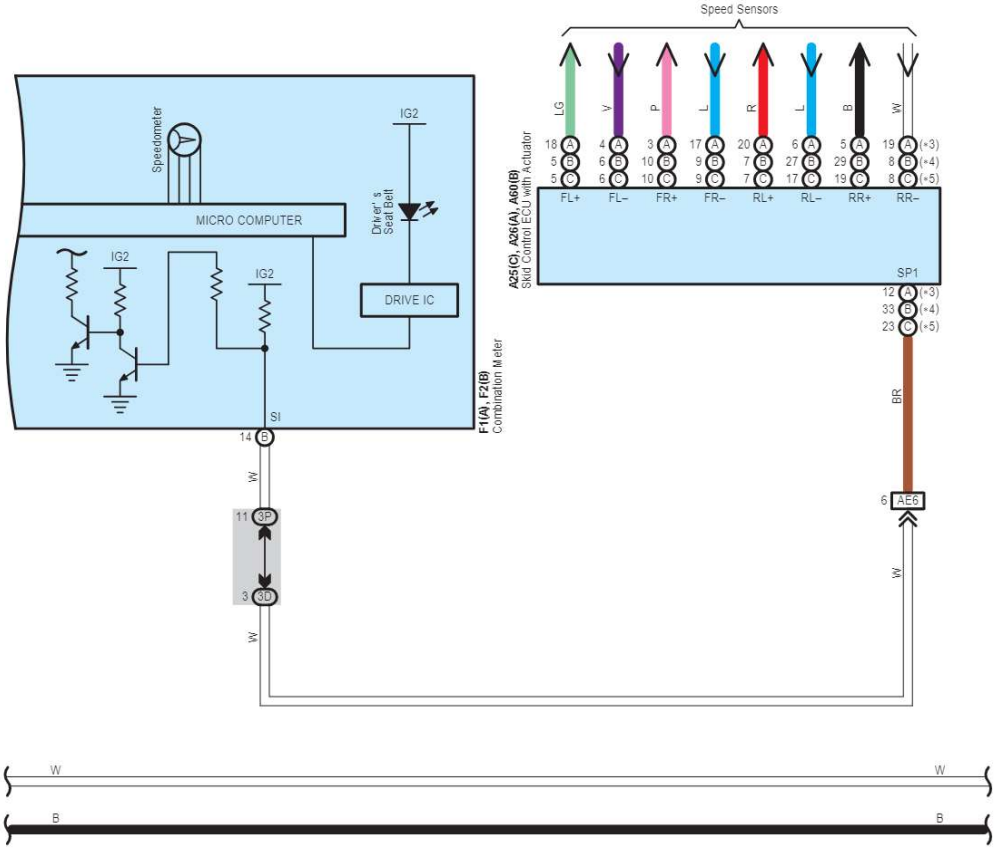
: **Ground Points**

Code	See Page	Ground Points Location
S1	67	Lower Back Panel Center

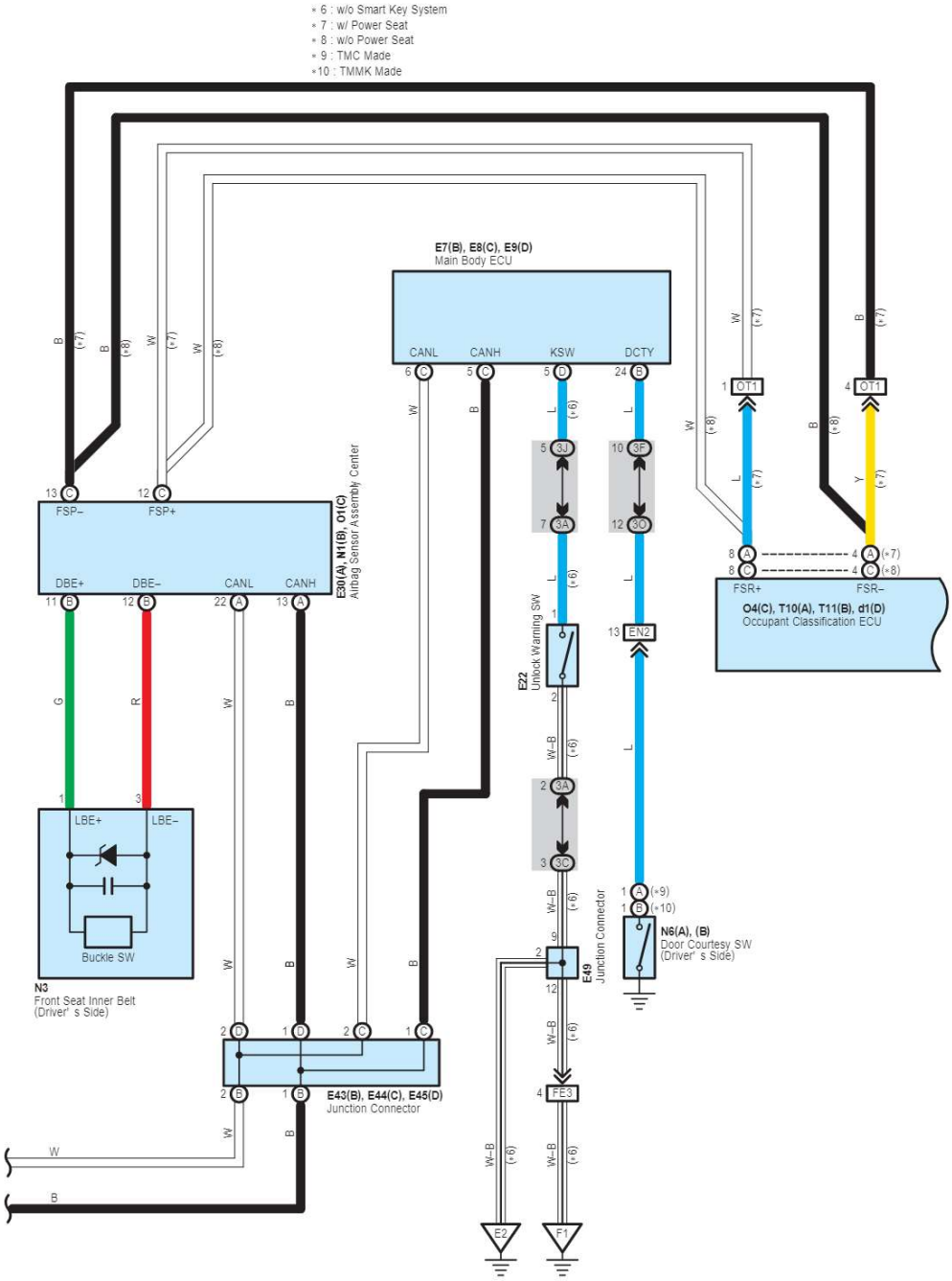
Key Reminder without Smart Key System and Seat Belt Warning

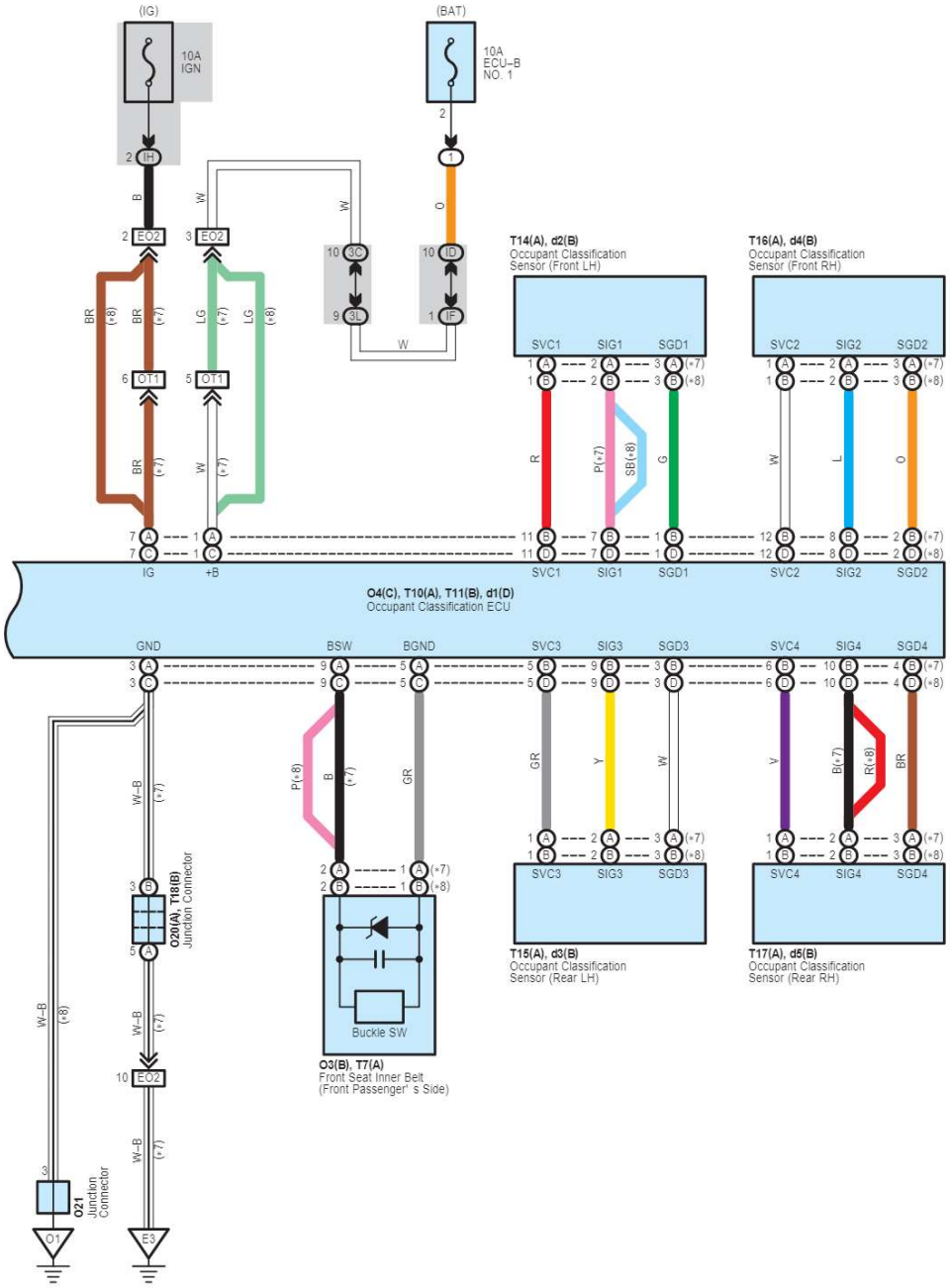


* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC



Key Reminder without Smart Key System and Seat Belt Warning




(IG)
10A
IGN
(BAT)
10A
ECU–B
NO. 1
T14(A), d2(B)
Occupant Classification
Sensor (Front LH)
T16(A), d4(B)
Occupant Classification
Sensor (Front RH)
SVC1
SIG1
SGD1
SVC2
SIG2
SGD2
IG
+B
O4(C), T10(A), T11(B), d1(D)
Occupant Classification ECU
GND
BSW
BGND
SVC3
SIG3
SGD3
SVC4
SIG4
SGD4
O20(A), T18(B)
Junction Connector
O21
Junction
Connector
Buckle SW
O3(B), T7(A)
Front Seat Inner Belt
(Front Passenger' s Side)
T15(A), d3(B)
Occupant Classification
Sensor (Rear LH)
T17(A), d5(B)
Occupant Classification
Sensor (Rear RH)

Key Reminder without Smart Key System and Seat Belt Warning

System Outline

Key Reminder Operation

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 the combination meter, the combination meter operates key reminder buzzer sounds.

Seat Belt Warning Operation

When the driver has not fastened the seat belt while the power SW is pushed to IG ON position (Power SW type), or while the ignition SW is ON (Ignition SW type), 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
A25	C	48 (2GR–FE)	E44	C	57	O21		60
		52 (2AZ–FE)	E45	D	57	T7	A	62 (*1)
A26	A	48 (2GR–FE)	E49		57	T10	A	62 (*1)
		52 (2AZ–FE)	F1	A	58	T11	B	62 (*1)
A41	A	59	F2	B	58	T14	A	62 (*1)
A42	B	59	F3		58	T15	A	62 (*1)
A60	B	49 (2GR–FE)	N1	B	59	T16	A	62 (*1)
		53 (2AZ–FE)	N3		62 (*1)	T17	A	62 (*1)
C57		51 (2GR–FE)			63 (*2)	T18	B	62 (*1)
E7	B	56	N6	A	60	d1	D	63 (*2)
E8	C	56		B	60	d2	B	63 (*2)
E9	D	56	O1	C	59	d3	B	63 (*2)
E22		56	O3	B	63 (*2)	d4	B	63 (*2)
E30	A	56	O4	C	63 (*2)	d5	B	63 (*2)
E43	B	57	O20	A	62 (*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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3F		
3G		
3J		
3L		
3O		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3R		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		

* 1 : w/ Power Seat * 2 : w/o Power Seat

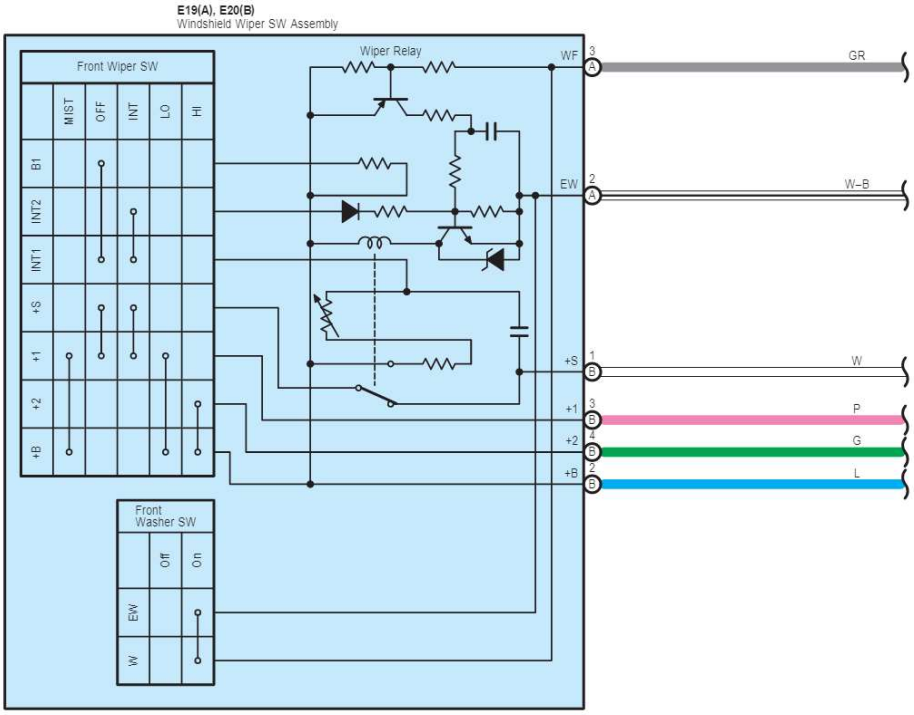
: **Connector Joining Wire Harness and Wire Harness**

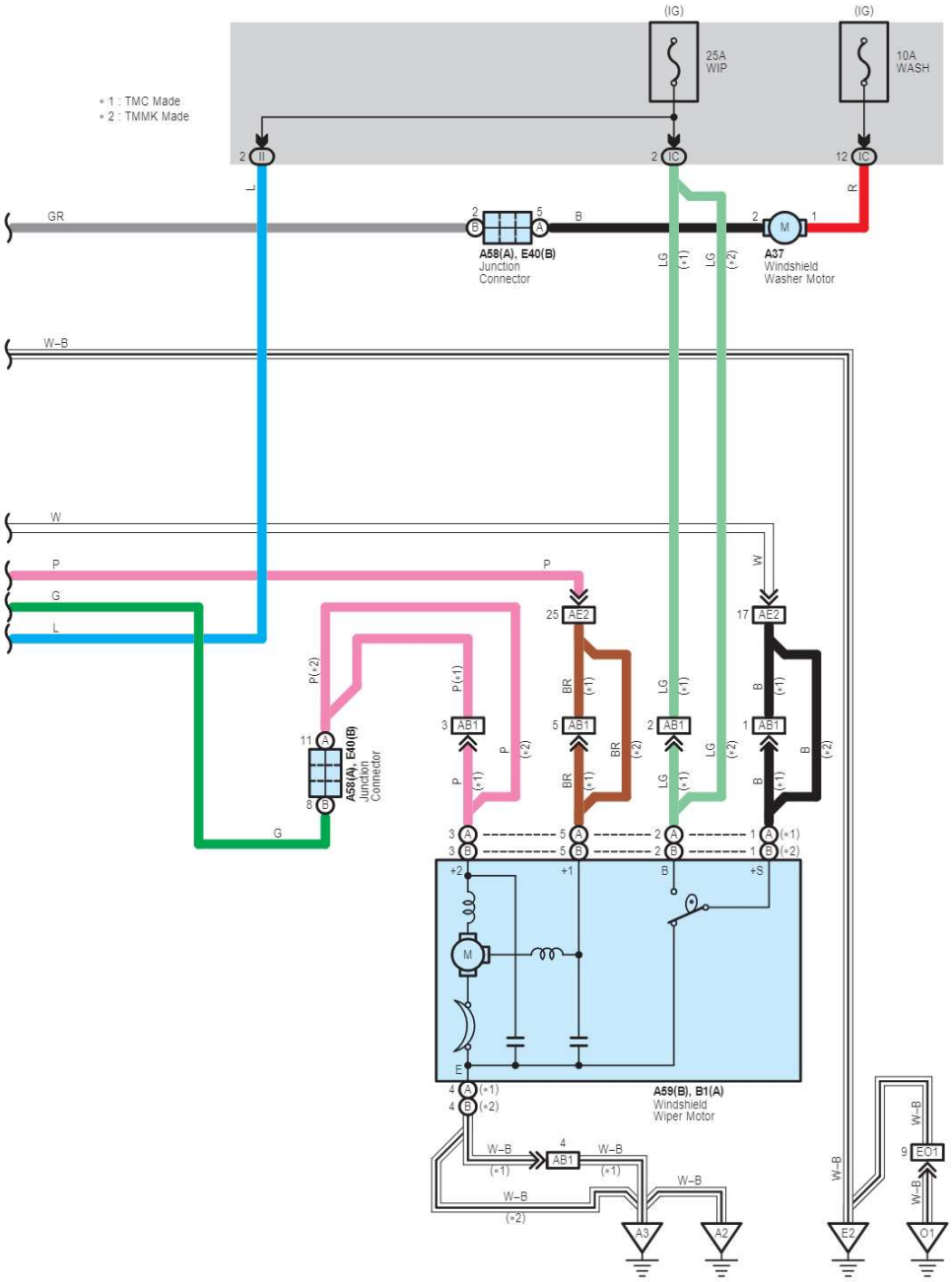
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
OT1	68 (*1)	Floor No.2 Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

: **Ground Points**

Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
E3	66	Instrument Panel Right
F1	66	Instrument Panel Left
O1	67	Right Rear Quarter Panel

* 1 : w/ Power Seat * 2 : w/o Power Seat


E19(A), E20(B)
Windshield Wiper SW Assembly
Front Wiper SW
MIST
OFF
INT
LO
HI
B1
INT2
INT1
+S
+1
+2
+B
Wiper Relay
Front Washer SW
Off
On
EW
W
WF
EW
+S
+1
+2
+B
3
A
2
A
1
B
3
B
4
B
2
B
GR
W–B
W
P
G
L


(IG)
(IG)
25A
WIP
10A
WASH
* 1 : TMC Made
* 2 : TMMK Made
2 II
2 IC
12 IC
L
R
GR
B
A58(A), E40(B)
Junction
Connector
A37
Windshield
Washer Motor
LG (*1)
LG (*2)
W-B
W
P
G
L
P
W
25 AE2
17 AE2
P(*2)
P(*1)
BR (*1)
LG (*1)
B (*1)
11 A
8 B
3 AB1
5 AB1
2 AB1
1 AB1
P (*1)
P (*2)
BR (*1)
BR (*2)
LG (*1)
LG (*2)
B (*1)
B (*2)
A58(A), E40(B)
Junction
Connector
G
3 A
3 B
5 A
5 B
2 A
2 B
1 A (*1)
1 B (*2)
+2
+1
B
+S
M
E
4 A (*1)
4 B (*2)
A59(B), B1(A)
Windshield
Wiper Motor
W-B
(*1)
4
AB1
W-B
(*1)
W-B
W-B
(*2)
A3
A2
W-B
9 EO1
W-B
E2
O1

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A37		48 (2GR–FE)	A59	B	53 (2AZ–FE)	E20	B	56
		52 (2AZ–FE)	B1	A	49 (2GR–FE)	E40	B	57
A58	A	59			53 (2AZ–FE)			
A59	B	49 (2GR–FE)	E19	A	56			

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

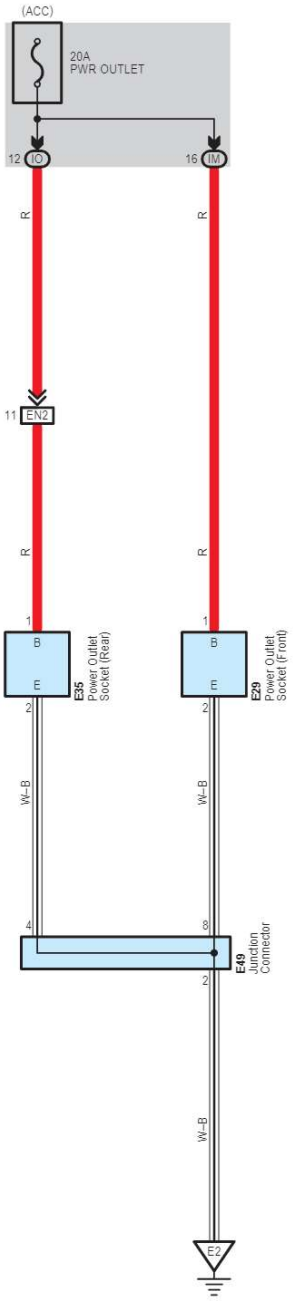
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
II	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AB1	64 (2GR–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Near the Windshield Wiper Motor)
	65 (2AZ–FE)	
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A2	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel
E2	66	Instrument Panel Brace LH
O1	67	Right Rear Quarter Panel


(ACC)
20A
PWR OUTLET
12 IG
16 IM
R
R
11 EN2
R
R
1
B
E
E25
Power Outlet
Socket (Rear)
1
B
E
E29
Power Outlet
Socket (Front)
2
2
W-B
W-B
4
8
E49
Junction
Connector
2
W-B
E2

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E29	56	E35	57	E49	57

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

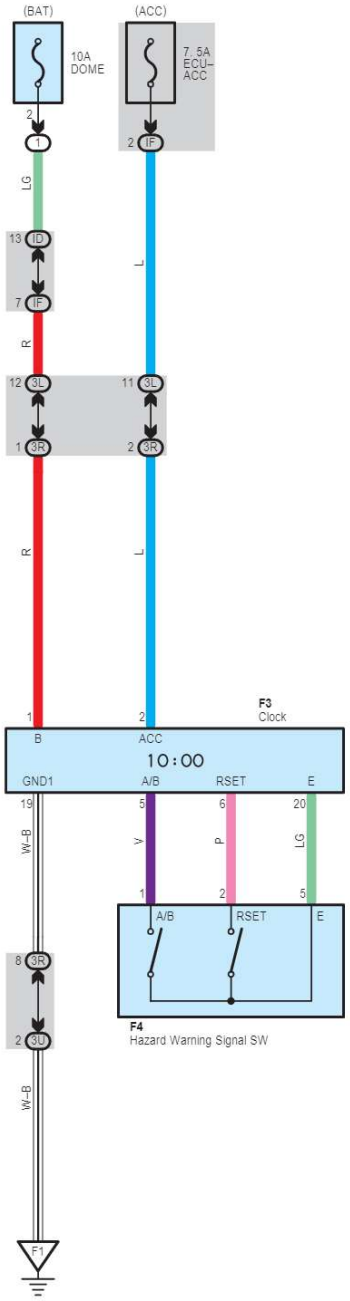
Code	See Page	Junction Block and Wire Harness (Connector Location)
IM	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH


(BAT)
(ACC)
10A
DOME
7.5A
ECU-
ACC
2
1
2
1F
LG
13
1D
7
1F
L
R
12
3L
11
3L
1
3R
2
3R
R
L
1
2
F3
Clock
B
ACC
10:00
GND1
A/B
RSET
E
19
5
6
20
W-B
Y
P
LG
1
2
5
A/B
RSET
E
8
3R
2
3L
F4
Hazard Warning Signal SW
W-B
F1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
F3	58	F4	58		

⬭ : **Relay Blocks**

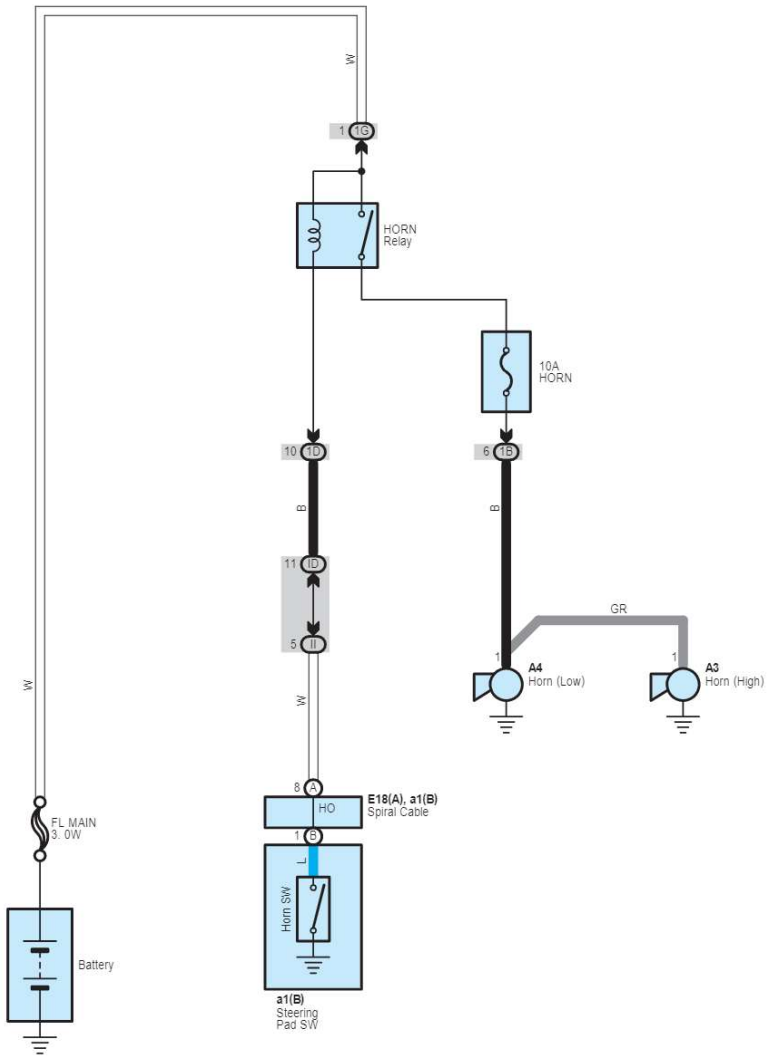
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3L	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3R	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

▽ : **Ground Points**

Code	See Page	Ground Points Location
F1	66	Instrument Panel Left

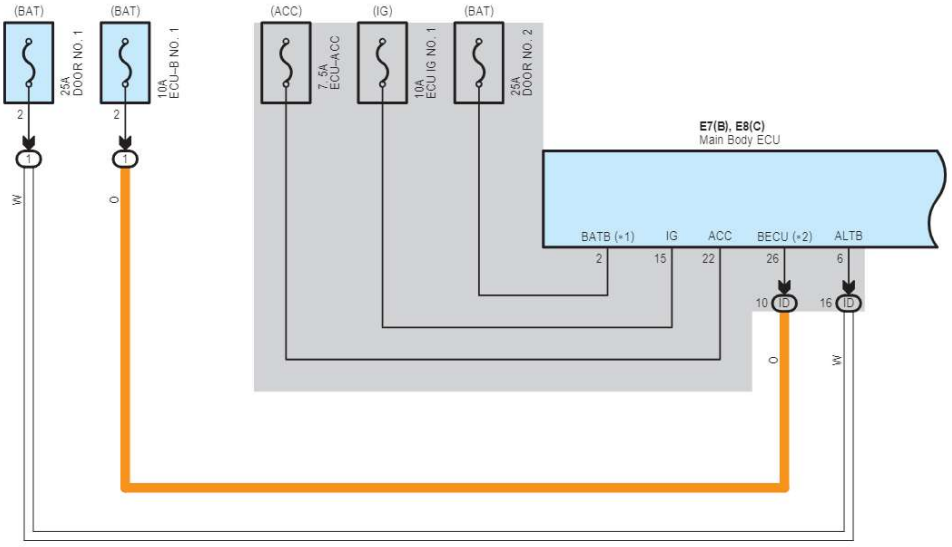

W
1G
HORN
Relay
10A
HORN
10
1D
6
1B
B
B
11
1D
GR
5
1I
1
A4
Horn (Low)
1
A3
Horn (High)
W
W
8
A
HO
E18(A), a1(B)
Spiral Cable
1
B
L
Horn SW
FL MAIN
3. 0W
Battery
a1(B)
Steering
Pad SW

○ : **Parts Location**

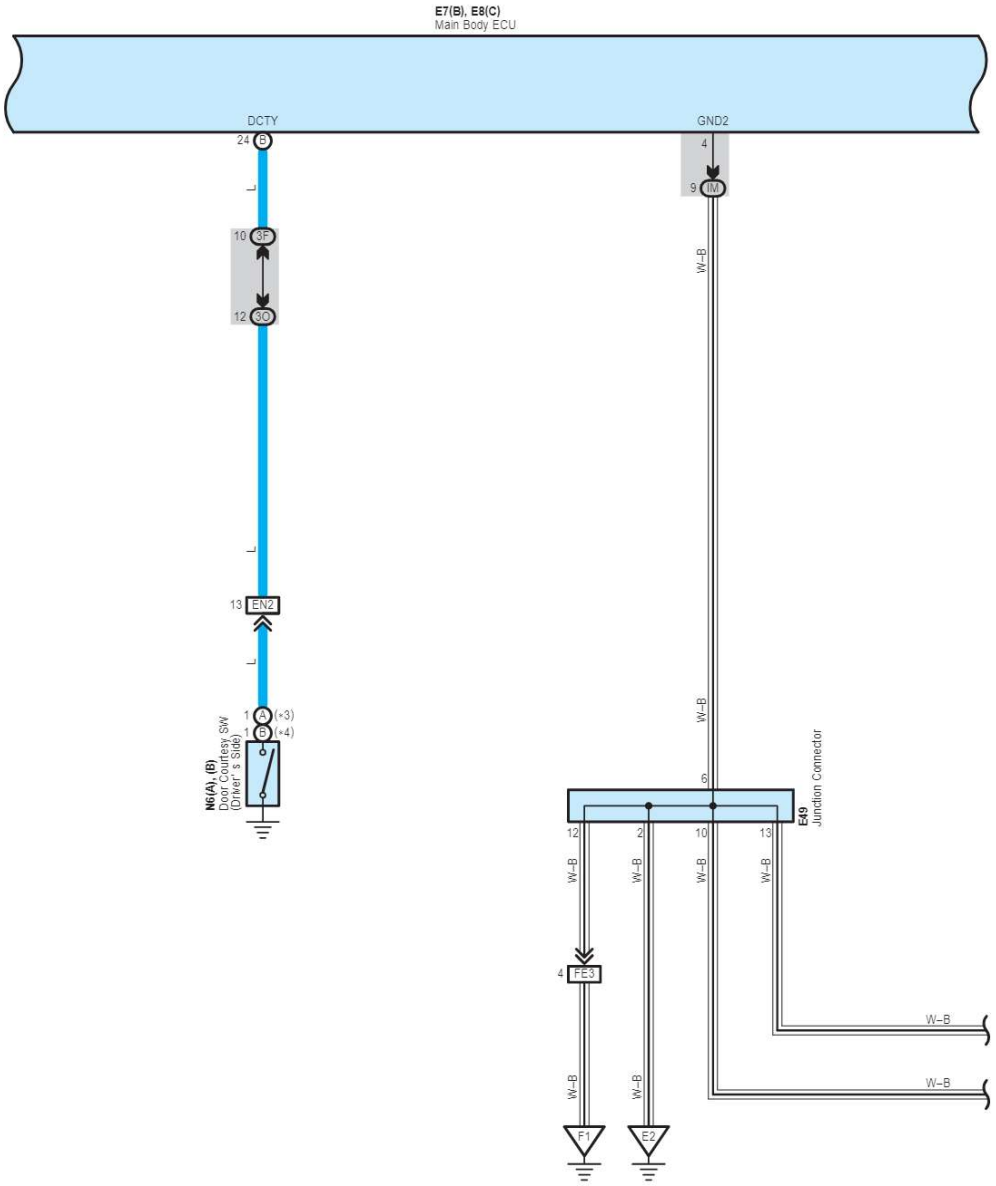
Code	See Page	Code	See Page	Code		See Page
A3	48 (2GR–FE)	A4	48 (2GR–FE)	E18	A	56
	52 (2AZ–FE)		52 (2AZ–FE)	a1	B	59

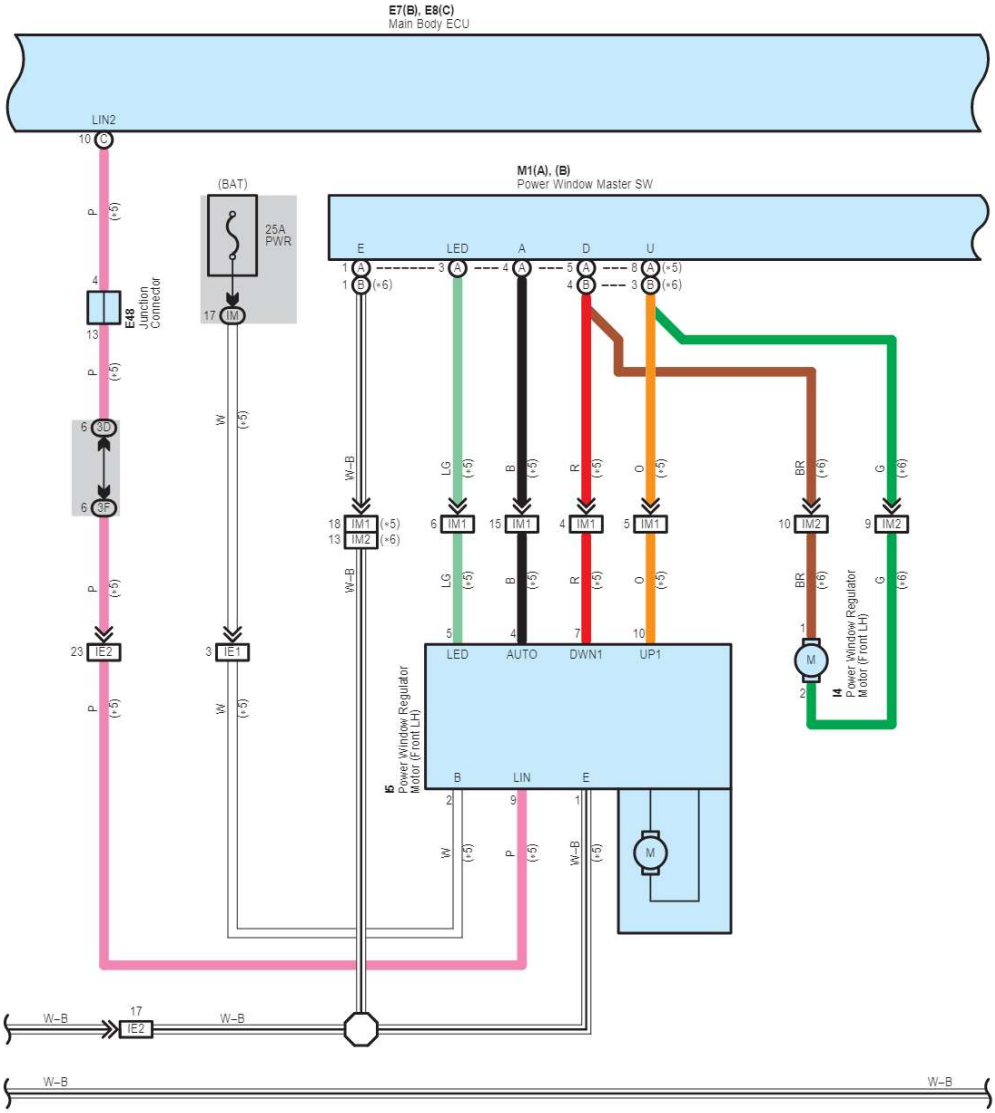
: **Junction Block and Wire Harness Connector**

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		
1G	22	
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
II	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

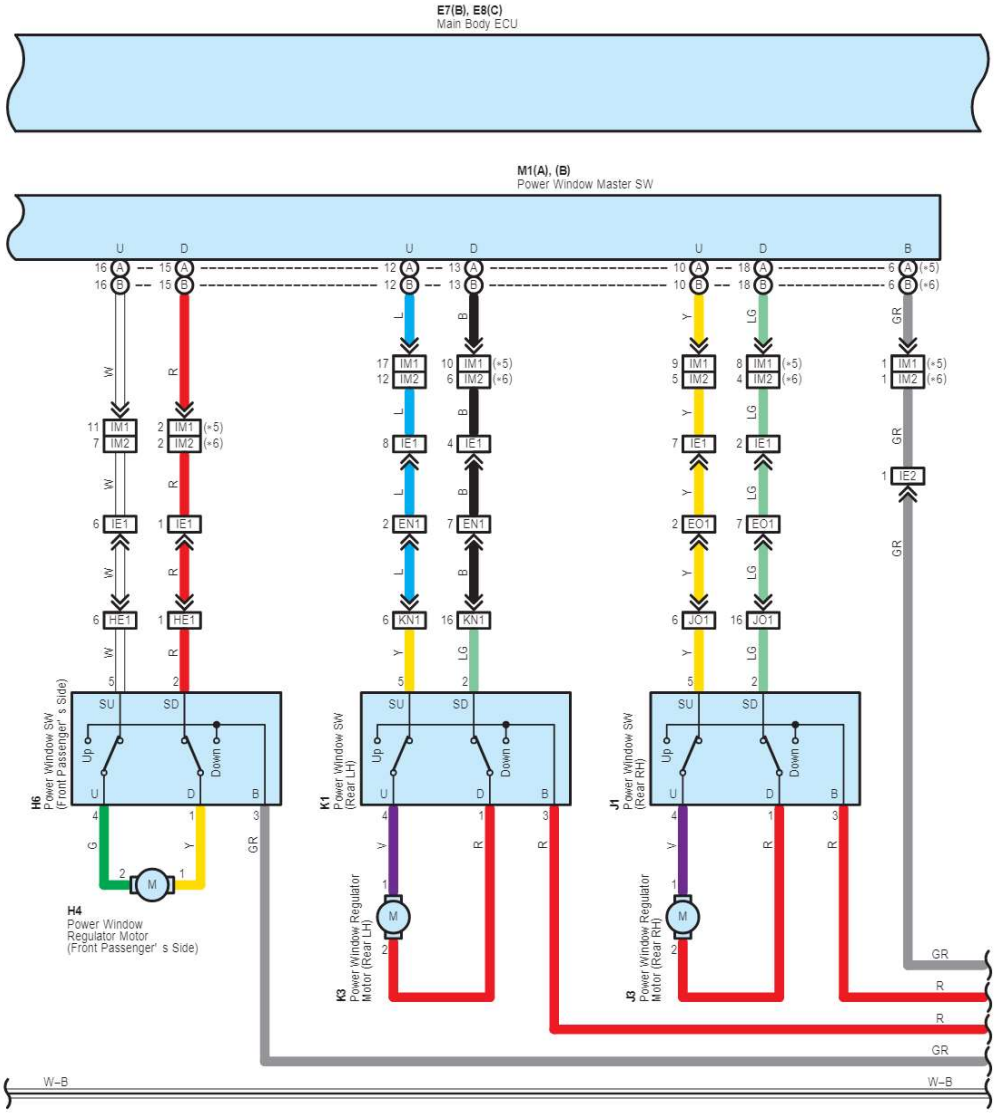

(BAT)
(BAT)
(ACC)
(IG)
(BAT)
25A DOOR NO. 1
10A ECU-B NO. 1
7.5A ECU-ACC
10A ECU IG NO. 1
25A DOOR NO. 2
E7(B), E8(C)
Main Body ECU
BATB (*1)
IG
ACC
BECU (*2)
ALTB
2
15
22
26
6
10
16
ID
W
O

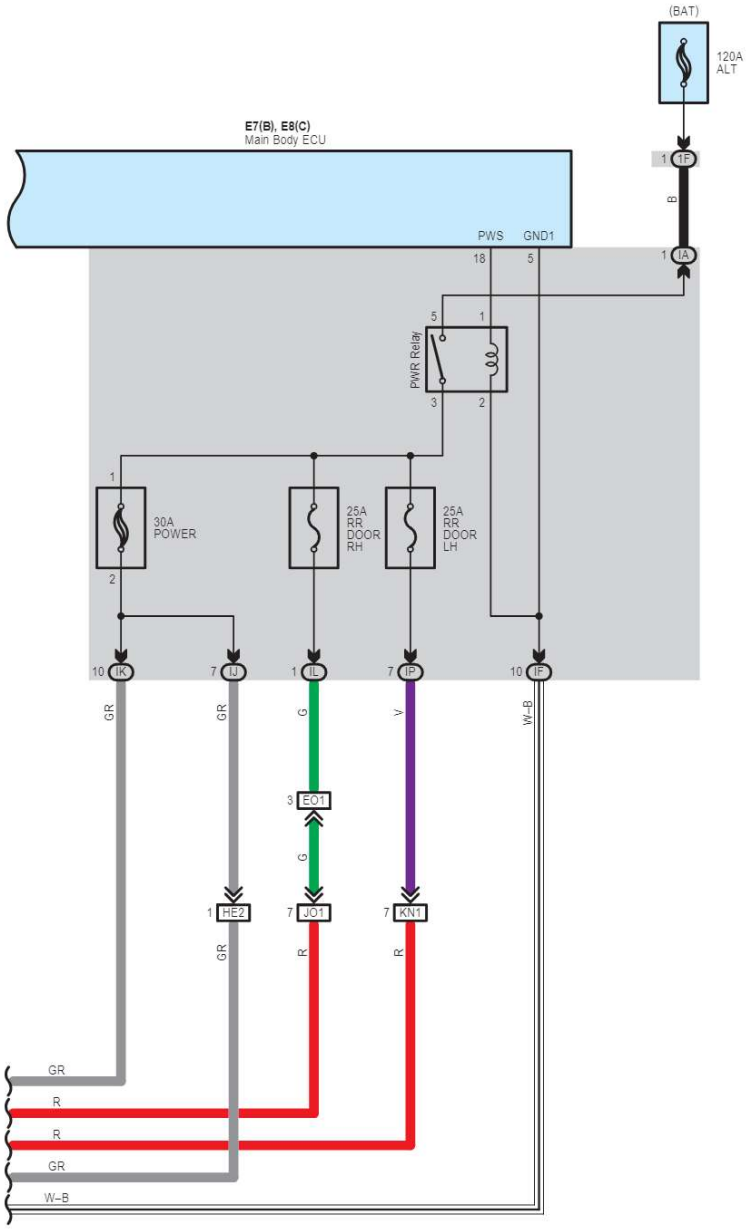
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 3 : TMC Made
* 4 : TMMK Made




E7(B), E8(C)
Main Body ECU
LIN2
10 C
P (+5)
4
E48
Junction Connector
13
P (+5)
6 3D
6 3F
P (+5)
23 IE2
P (+5)
(BAT)
25A PWR
17 IM
W (+5)
3 IE1
W (+5)
M1(A), (B)
Power Window Master SW
E
LED
A
D
U
1 A
1 B (+6)
3 A
4 A
5 A
4 B
8 A (+5)
3 B (+6)
W-B
18 IM1 (+5)
13 IM2 (+6)
W-B
LG (+5)
6 IM1
LG (+5)
B (+5)
15 IM1
B (+5)
R (+5)
4 IM1
R (+5)
O (+5)
5 IM1
O (+5)
BR (+6)
10 IM2
BR (+6)
G (+6)
9 IM2
G (+6)
I5
Power Window Regulator Motor (Front LH)
5
LED
4
AUTO
7
DWN1
10
UP1
B
LIN
E
2
9
1
W (+5)
P (+5)
W-B (+5)
I4
Power Window Regulator Motor (Front LH)
1
2
M
W-B
17
IE2
W-B
W-B
W-B

* 5 : w/ Jam Protection
* 6 : w/o Jam Protection




(BAT)
120A
ALT
E7(B), E8(C)
Main Body ECU
1 1F
B
PWS
GND1
18
5
1 1A
5
1
PWR Relay
3
2
1
30A
POWER
2
25A
RR
DOOR
RH
25A
RR
DOOR
LH
10 1K
7 1J
1 1L
7 1P
10 1F
GR
GR
G
V
W-B
3 EO1
G
1 HE2
7 JO1
7 KN1
GR
R
R
GR
R
GR
W-B

System Outline

1. Manual Down or Up Operation

When the power window master SW is pushed one step, the motor rotates to open the window.
When the power window master SW is pulled up one step, the motor rotates in the opposite direction, to close the window.
All the other windows can be opened/closed as well, by the operation of the power window master SW or respective power window SW.

2. Auto Down or Up Operation

When the power window master SW is pushed two steps, the motor rotates to open the window automatically.
When the power window master SW is pulled up two steps, the motor rotates to close the window automatically. (w/ jam protection)

3. Jam Protection Function

When any foreign object gets caught during power window UP operation, the motor rotates in the opposite direction to open the window.

: Parts Location

Code		See Page	Code	See Page	Code		See Page
E7	B	56	I4	61	M1	A	61
E8	C	56	I5	61		B	61
E48		57	J1	61	N6	A	60
E49		57	J3	61		B	60
H4		61	K1	61			
H6		61	K3	61			

: 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	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
3O		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IJ		
IK		
IL		
IM		
IP	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

Power Window

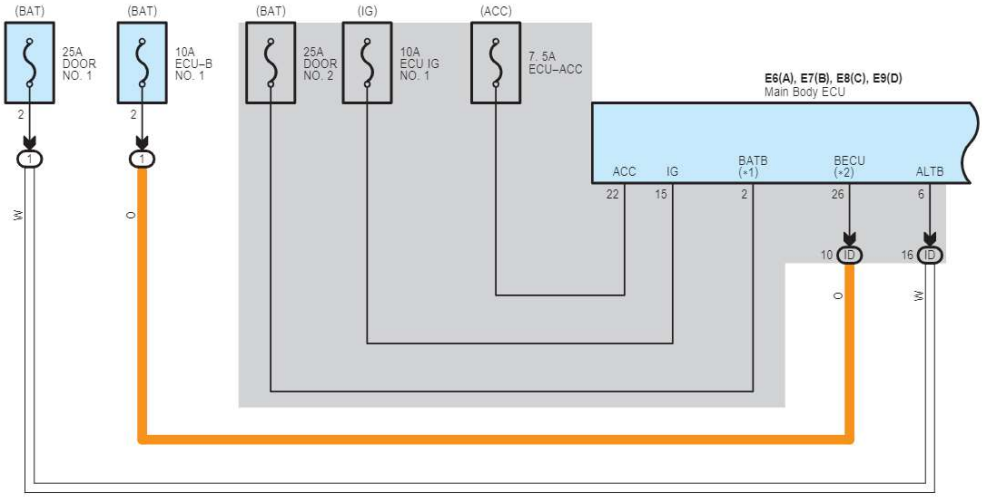
: **Connector Joining Wire Harness and Wire Harness**

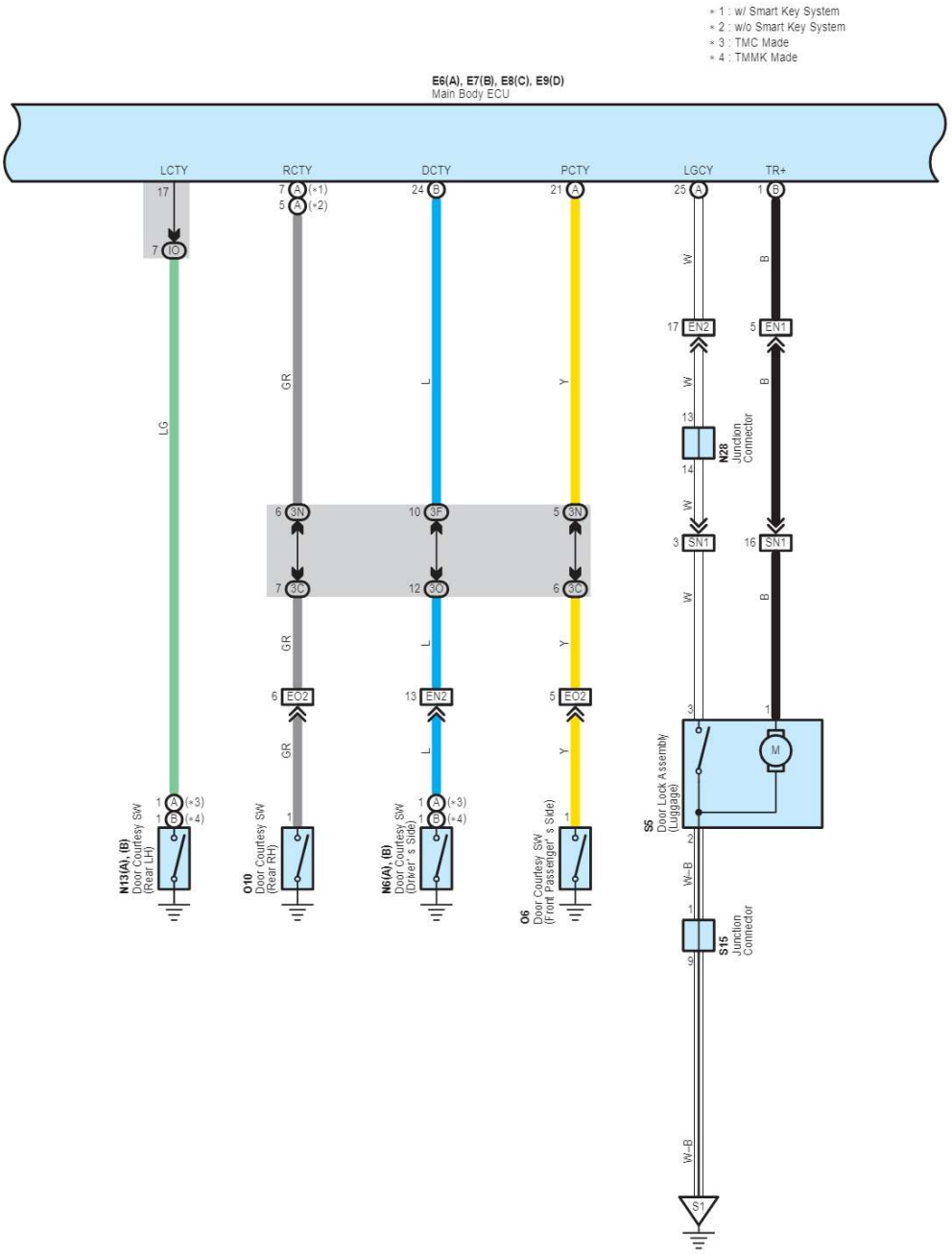
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EN2		
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
IM1	67	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
IM2		
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)

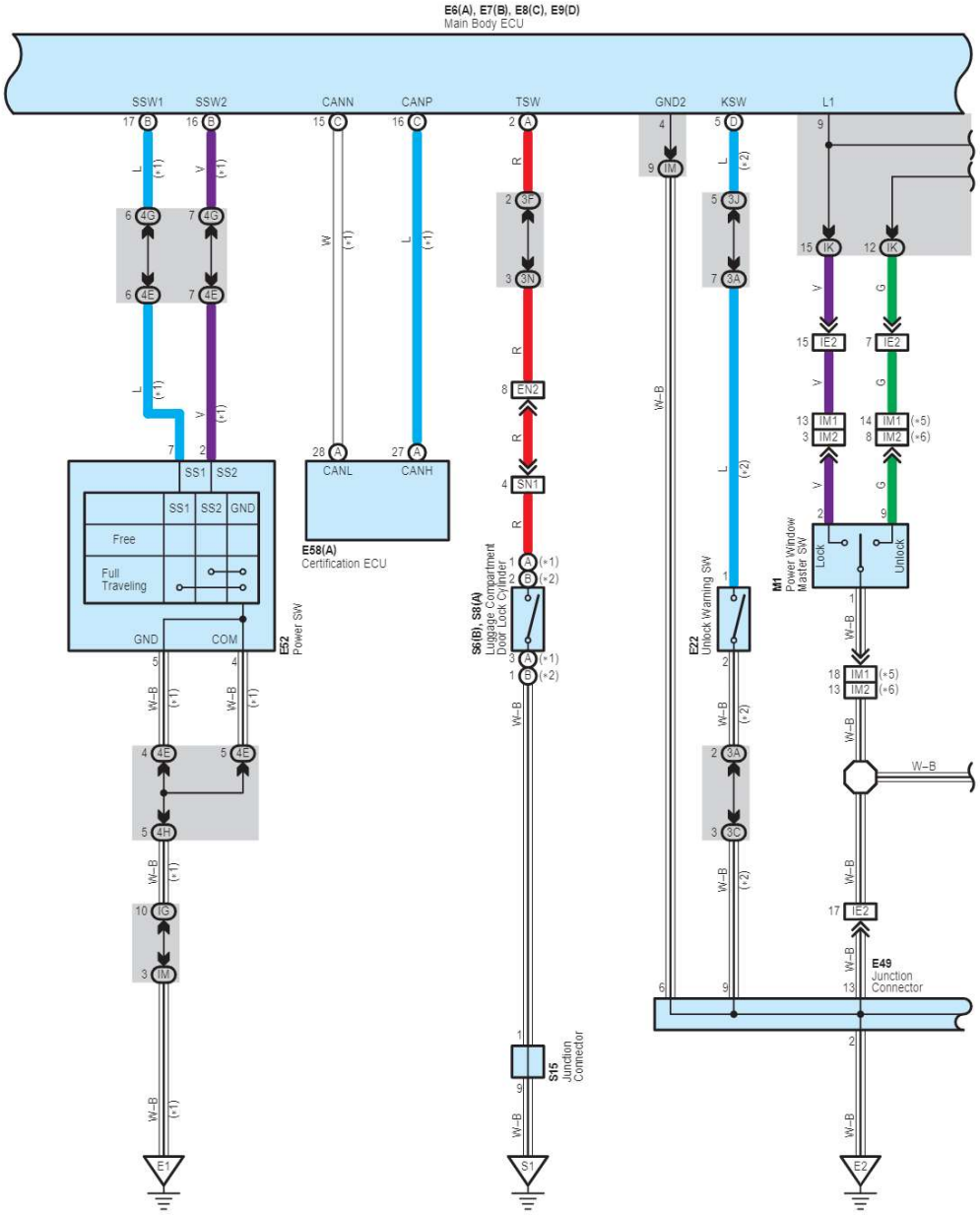
: **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

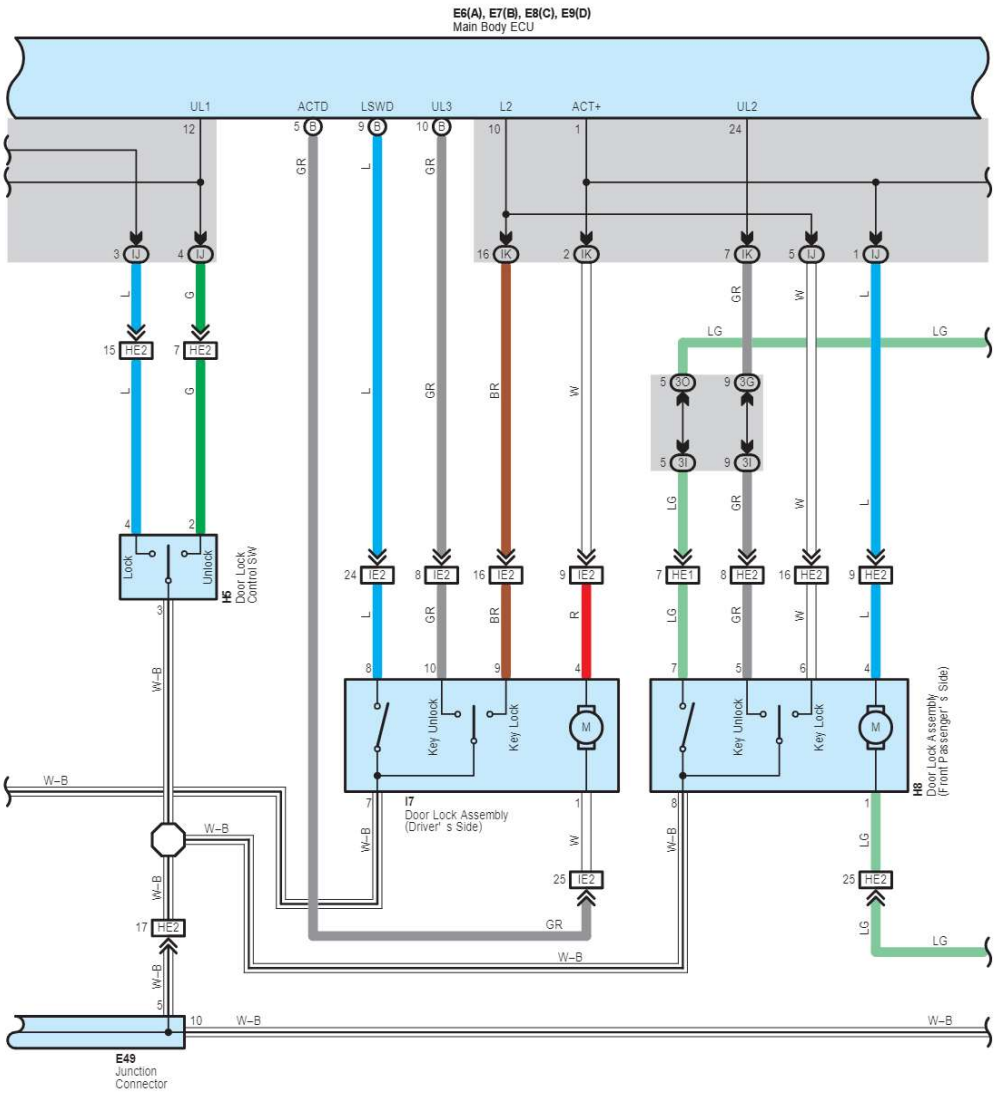
Door Lock Control and Luggage Compartment Door Opener

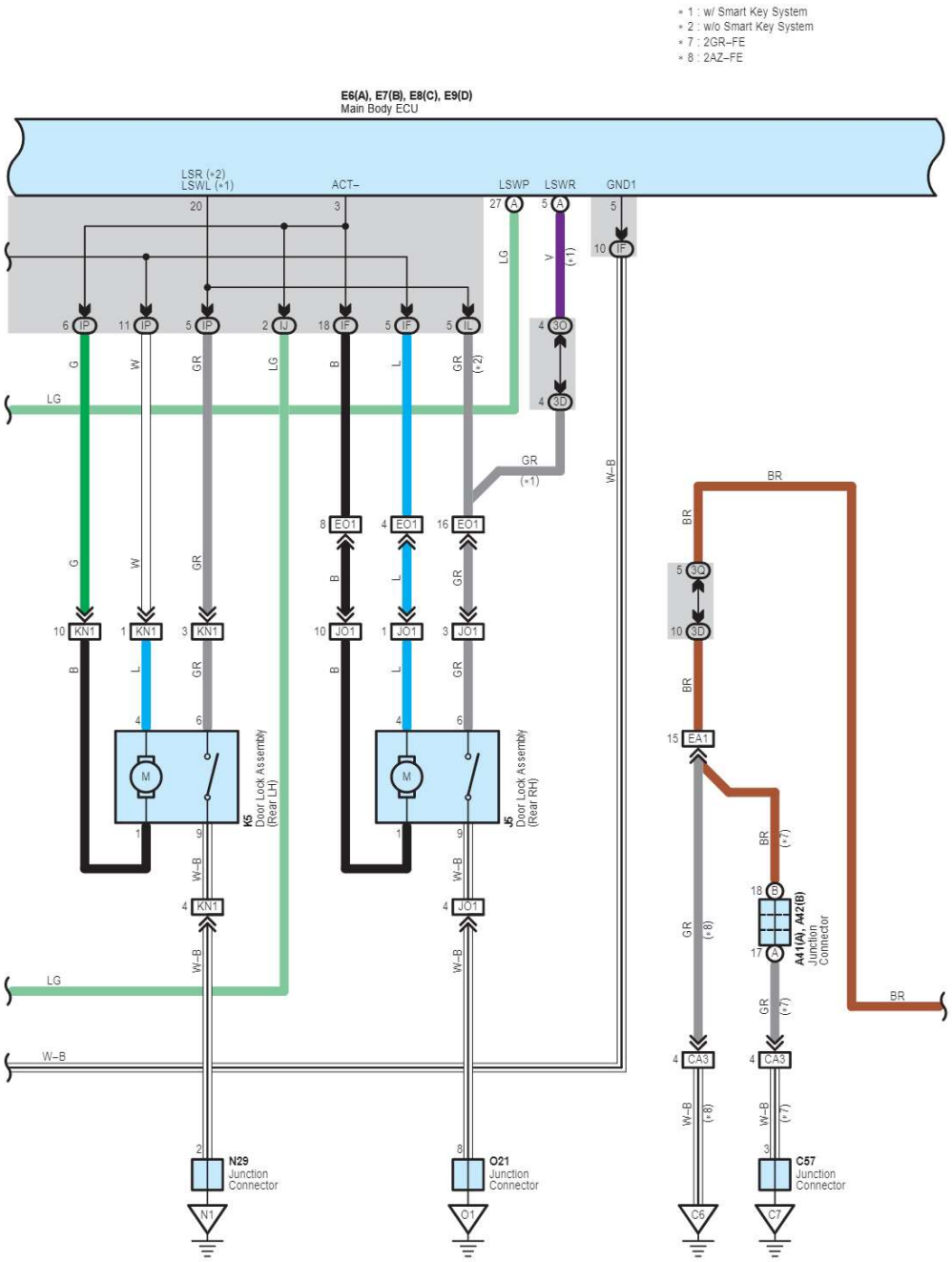


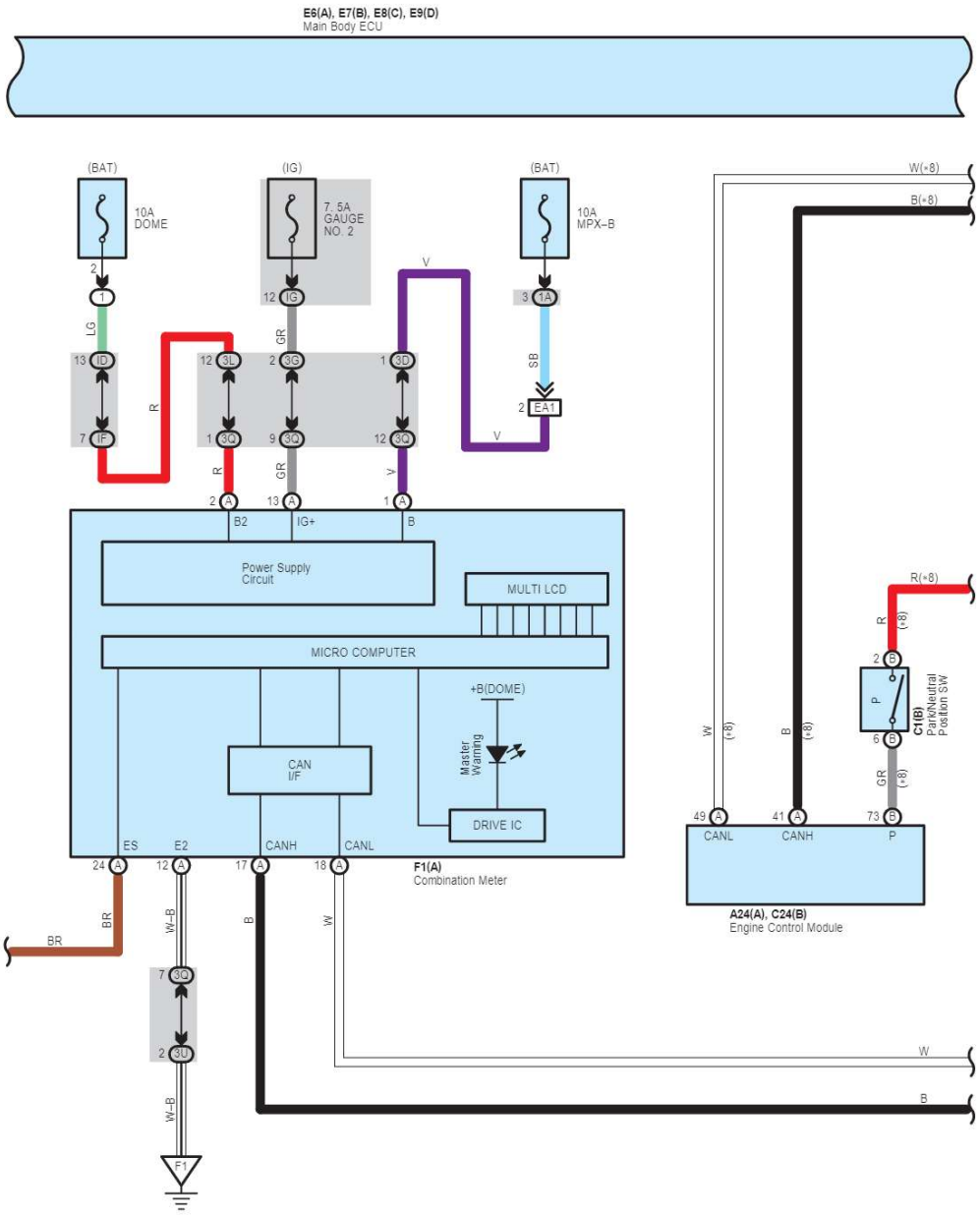

* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 3 : TMC Made
* 4 : TMMK Made
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LCTY
RCTY
DCTY
PCTY
LGCY
TR+
17
7 1O
LG
7 A (*1)
5 A (*2)
GR
6 3N
7 3C
6 EO2
GR
GR
1
24 B
L
10 3F
12 3O
13 EN2
L
L
1 A (*3)
1 B (*4)
25 A
W
17 EN2
W
13
14
N28
Junction Connector
W
3 SN1
W
3
21 A
Y
5 3N
6 3O
5 EO2
Y
Y
1
1 B
B
5 EN1
B
16 SN1
B
1
M
S5
Door Lock Assembly (Luggage)
2
W-B
1
S15
Junction Connector
9
W-B
S1
N13(A), (B)
Door Courtesy SW (Rear LH)
O10
Door Courtesy SW (Rear RH)
N6(A), (B)
Door Courtesy SW (Driver's Side)
O6
Door Courtesy SW (Front Passenger's Side)


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
SSW1
SSW2
CANN
CANP
TSW
GND2
KSW
L1
E52
Power SW
E58(A)
Certification ECU
CANL
CANH
S6(B), S8(A)
Luggage Compartment Door Lock Cylinder
E22
Unlock Warning SW
M1
Power Window Master SW
Lock
Unlock
S15
Junction Connector
E49
Junction Connector
Free
Full Traveling
GND
COM
E1
S1
E2

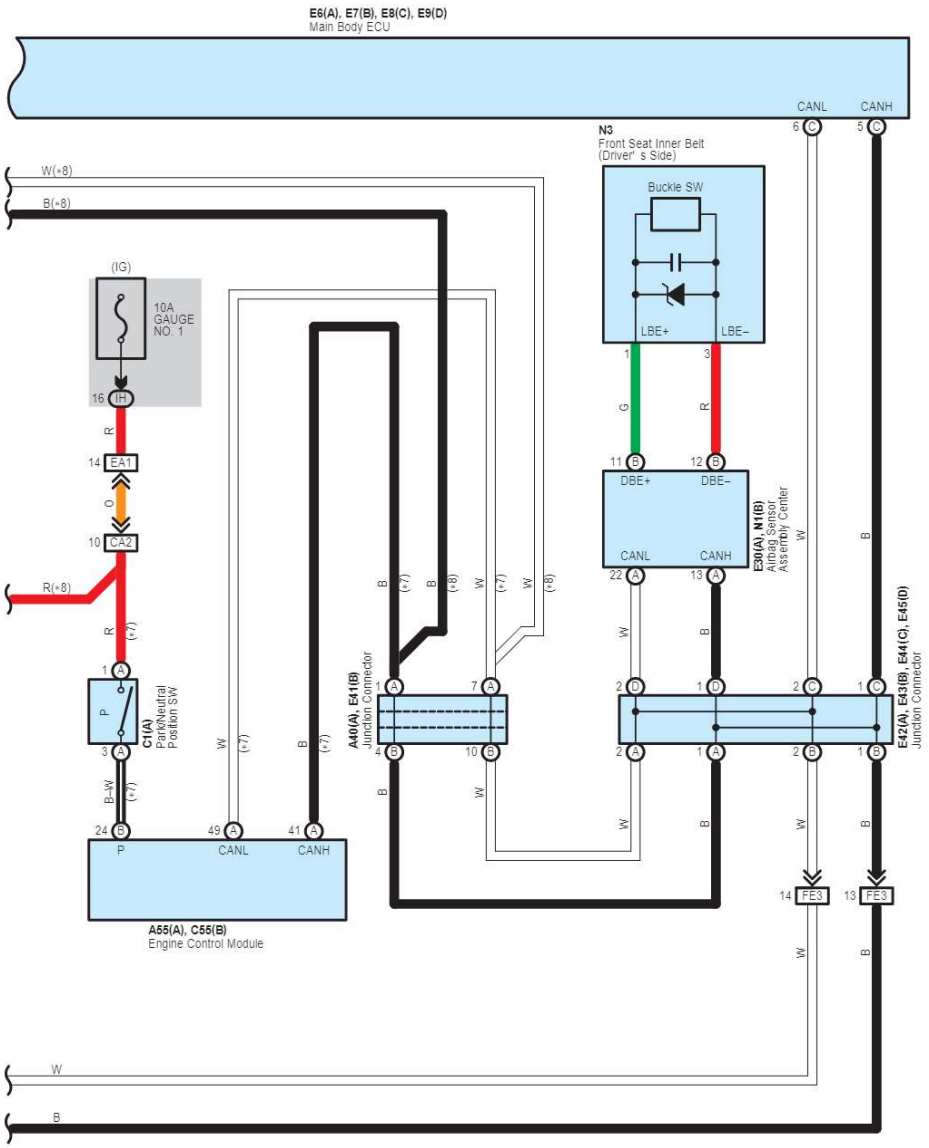
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 5 : w/ Jam Protection
* 6 : w/o Jam Protection




* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 7 : 2GR–FE
* 8 : 2AZ–FE
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LSR (*2)
LSWL (*1)
ACT–
LSWP
LSWR
GND1
K5
Door Lock Assembly
(Rear LH)
J5
Door Lock Assembly
(Rear RH)
A41(A), A42(B)
Junction
Connector
N29
Junction
Connector
O21
Junction
Connector
C57
Junction
Connector


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
W(+8)
B(+8)
R(+8)
Power Supply
Circuit
MULTI LCD
MICRO COMPUTER
+B(DOME)
Master
Warning
CAN
I/F
DRIVE IC
B2
IG+
B
ES
E2
CANH
CANL
F1(A)
Combination Meter
C1(B)
Park/Neutral
Position SW
CANL
CANH
P
A24(A), C24(B)
Engine Control Module
F1

* 7 : 2GR–FE
* 8 : 2AZ–FE



System Outline

1. Manual Unlock Operation

When the door lock control SW of the driver's or 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 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.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A24	A	52 (2AZ–FE)	E41	B	57	N3		62 (*1)
A40	A	59	E42	A	57			63 (*2)
A41	A	59	E43	B	57	N6	A	60
A42	B	59	E44	C	57		B	60
A55	A	49 (2GR–FE)	E45	D	57	N13	A	60
C1	A	50 (2GR–FE)	E49		57		B	60
	B	54 (2AZ–FE)	E52		57	N28		60
C24	B	55 (2AZ–FE)	E58	A	57	N29		60
C55	B	51 (2GR–FE)	F1	A	58	O6		60
C57		51 (2GR–FE)	H5		61	O10		60
E6	A	56	H8		61	O21		60
E7	B	56	I7		61	S5		61
E8	C	56	J5		61	S6	B	61
E9	D	56	K5		61	S8	A	61
E22		56	M1		61	S15		61
E30	A	56	N1	B	59			

▭ : Relay Blocks

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

* 1 : w/ Power Seat * 2 : w/o Power Seat

: **Junction Block and Wire Harness Connector**

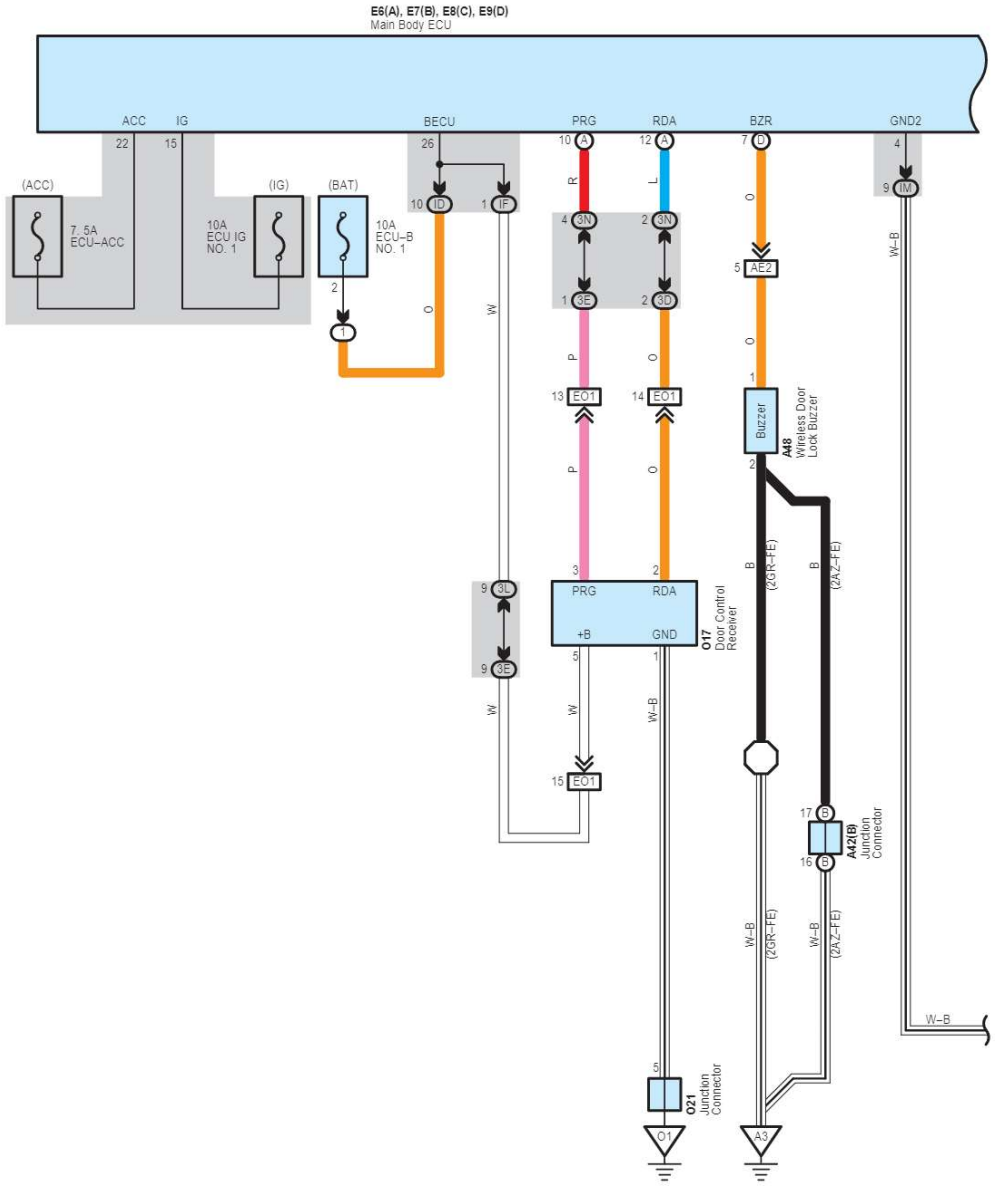
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3F		
3G		
3I		
3J		
3L		
3N		
3O		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4E	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4G		
4H		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
IJ	30	
IK		
IL		
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IP		

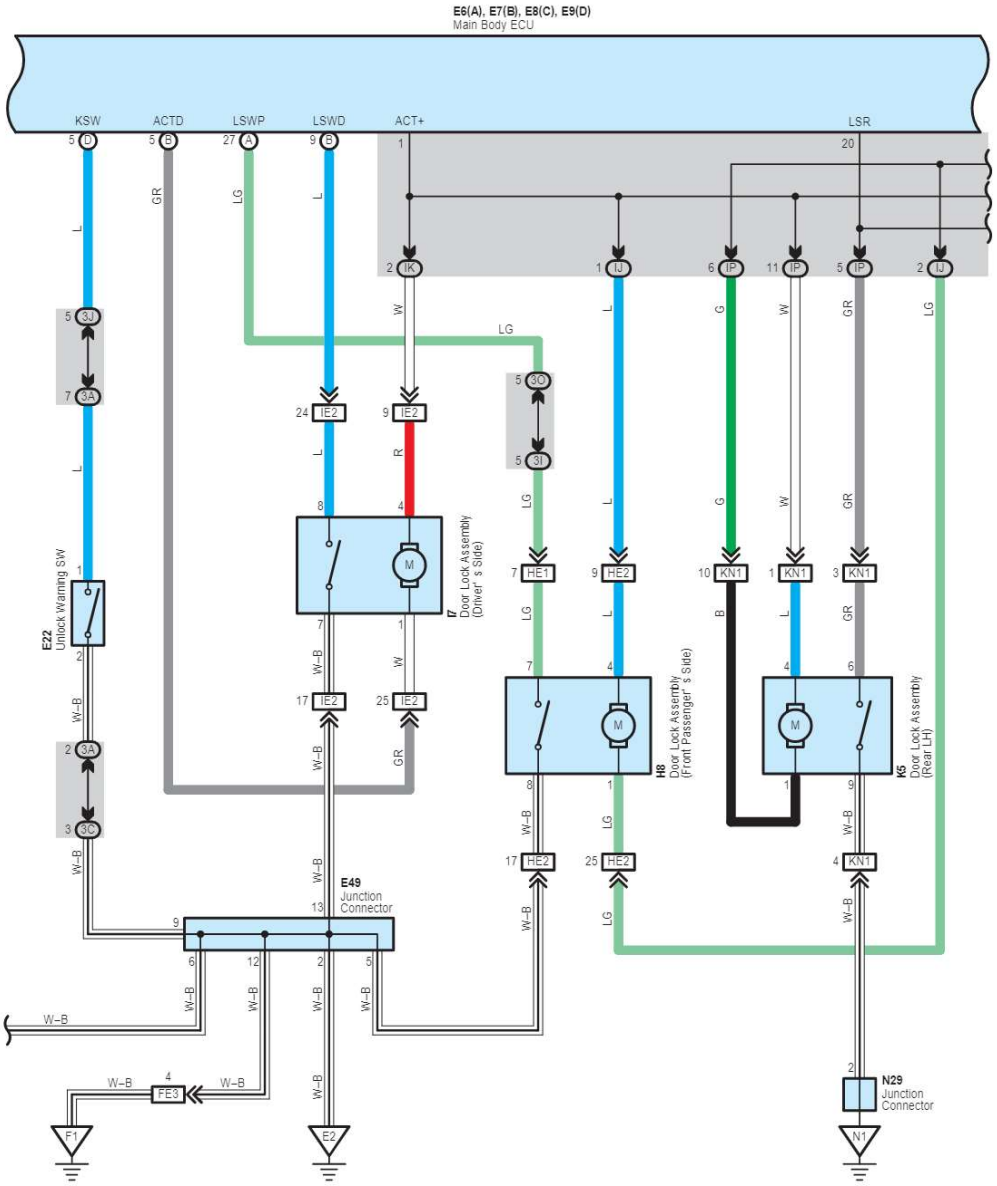
: **Connector Joining Wire Harness and Wire Harness**

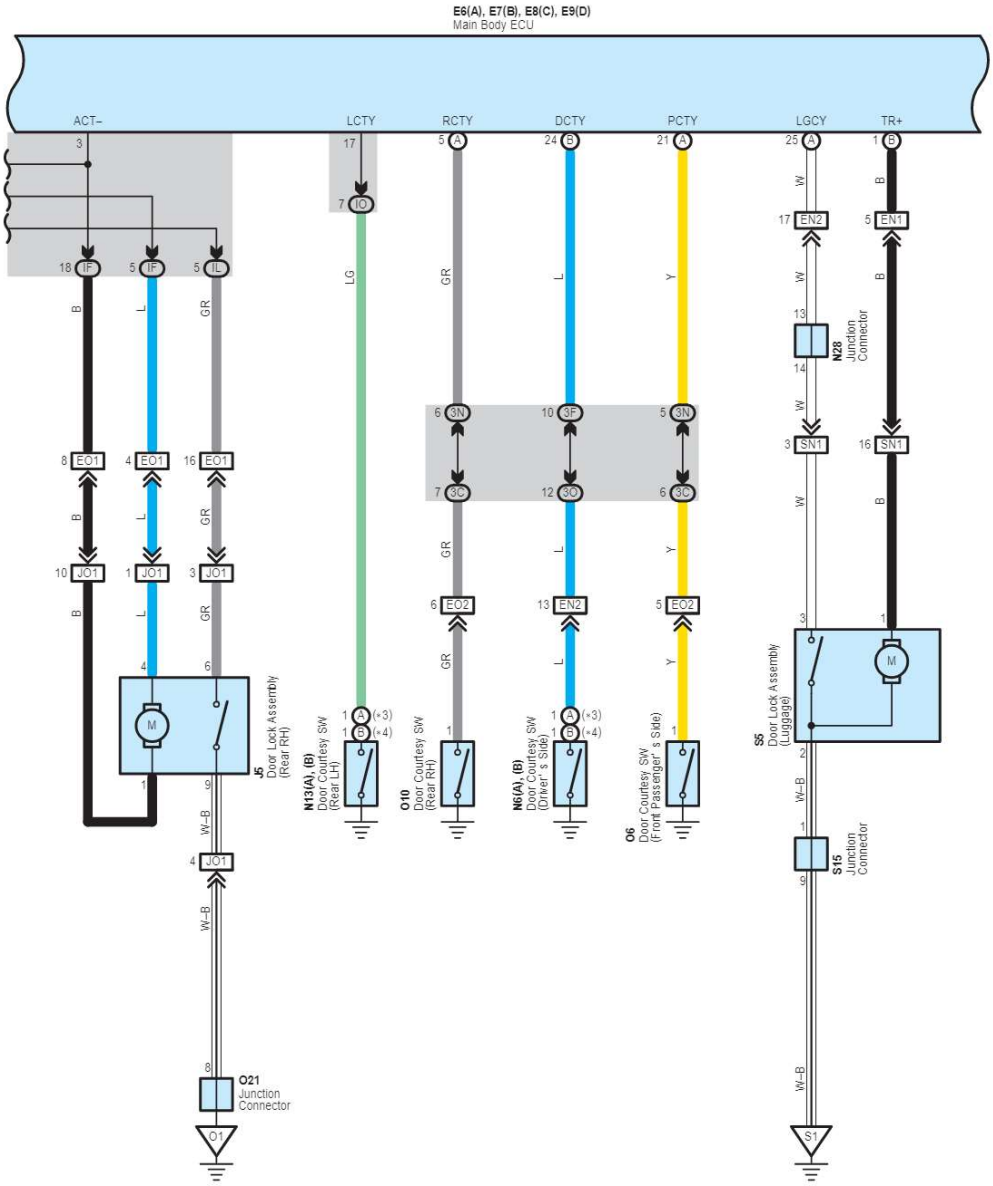
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EN2		
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EO2		
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	67	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
IM2		
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

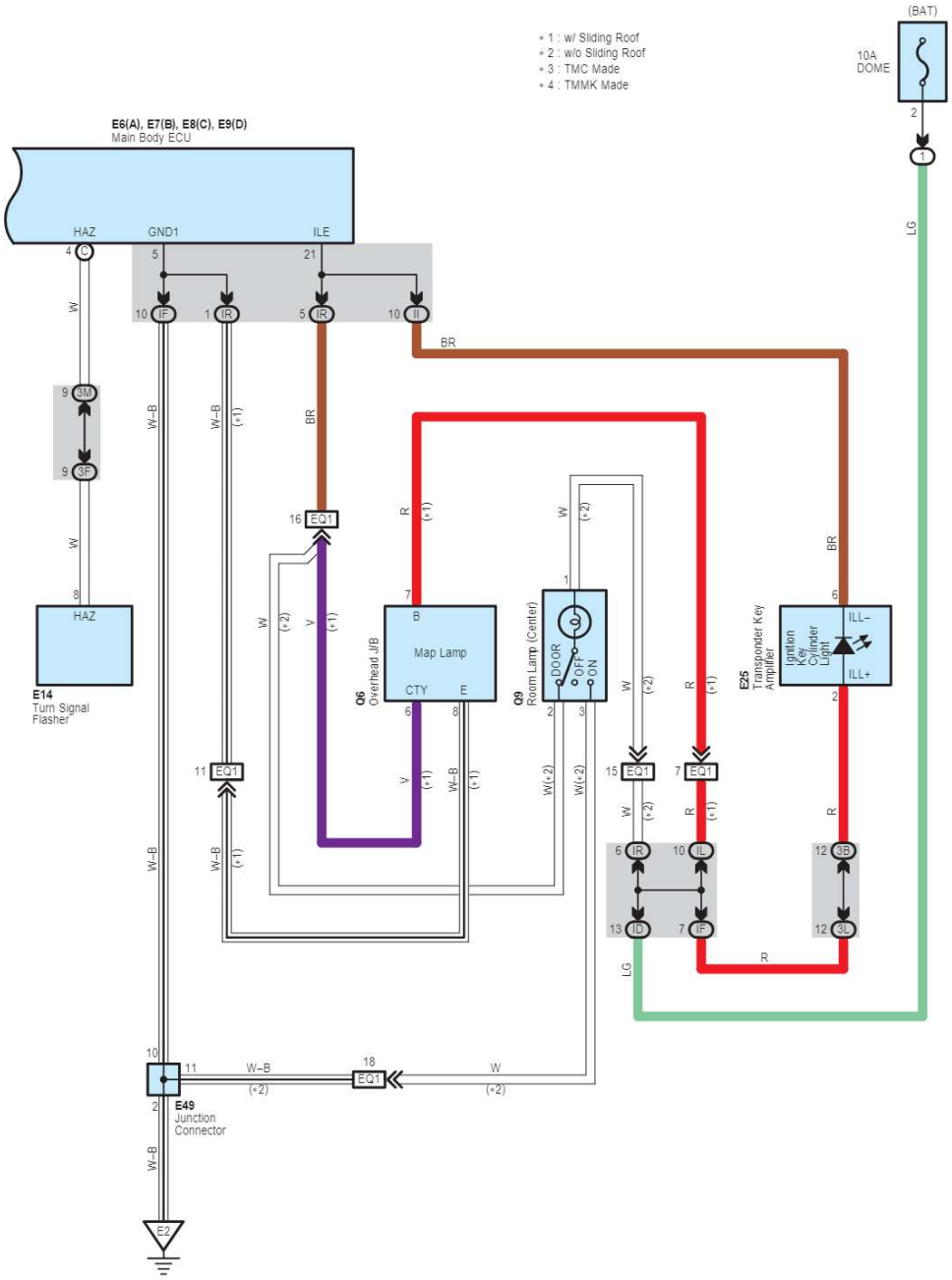
▽ : **Ground Points**

Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel
O1	67	Right Rear Quarter Panel
S1	67	Lower Back Panel Center


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACC
IG
BECU
PRG
RDA
BZR
GND2
(ACC)
(IG)
(BAT)
7.5A ECU-ACC
10A ECU IG NO. 1
10A ECU-B NO. 1
Buzzer
A48 Wireless Door Lock Buzzer
O17 Door Control Receiver
PRG
RDA
+B
GND
A42(B) Junction Connector
O21 Junction Connector
(2GR-FE)
(2AZ-FE)
W-B


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
KSW
ACTD
LSWP
LSWD
ACT+
LSR
E22
Unlock Warning SW
E7
Door Lock Assembly
(Driver's Side)
H8
Door Lock Assembly
(Front Passenger's Side)
K5
Door Lock Assembly
(Rear LH)
E49
Junction
Connector
N29
Junction
Connector
F1
E2
N1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACT–
LCTY
RCTY
DCTY
PCTY
LGCY
TR+
J5
Door Lock Assembly
(Rear RH)
N13(A), (B)
Door Courtesy SW
(Rear LH)
O10
Door Courtesy SW
(Rear RH)
N6(A), (B)
Door Courtesy SW
(Driver's Side)
O6
Door Courtesy SW
(Front Passenger's Side)
S5
Door Lock Assembly
(Luggage)
N28
Junction
Connector
S15
Junction
Connector
O21
Junction
Connector


* 1 : w/ Sliding Roof
* 2 : w/o Sliding Roof
* 3 : TMC Made
* 4 : TMMK Made
(BAT)
10A
DOME
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HAZ
GND1
ILE
LG
W
W-B
BR
R
V
W(*2)
(*1)
(*2)
16 EQ1
11 EQ1
15 EQ1
7 EQ1
9 3M
9 3F
8 HAZ
E14
Turn Signal
Flasher
Q6
Overhead J/B
Map Lamp
B
CTY
E
Q9
Room Lamp (Center)
DOOR
OFF
ON
E25
Transponder Key
Amplifier
Ignition
Key
Cylinder
Light
ILL-
ILL+
6 IR
10 IL
13 ID
7 IF
12 3B
12 3L
10
11
18 EQ1
2
E49
Junction
Connector
E2

Wireless Door Lock Control without Smart Key System

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 main body ECU, causing it to operate.
As a result, the main 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 main 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 main 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 main 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 main 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
A42	B	59	E49		57	N29	60
A48		49 (2GR–FE)	H8		61	O6	60
		53 (2AZ–FE)	I7		61	O10	60
E6	A	56	J5		61	O17	60
E7	B	56	K5		61	O21	60
E8	C	56	N6	A	60	Q6	61
E9	D	56		B	60	Q9	61
E14		56	N13	A	60	S5	61
E22		56		B	60	S15	61
E25		56	N28		60		

: **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**

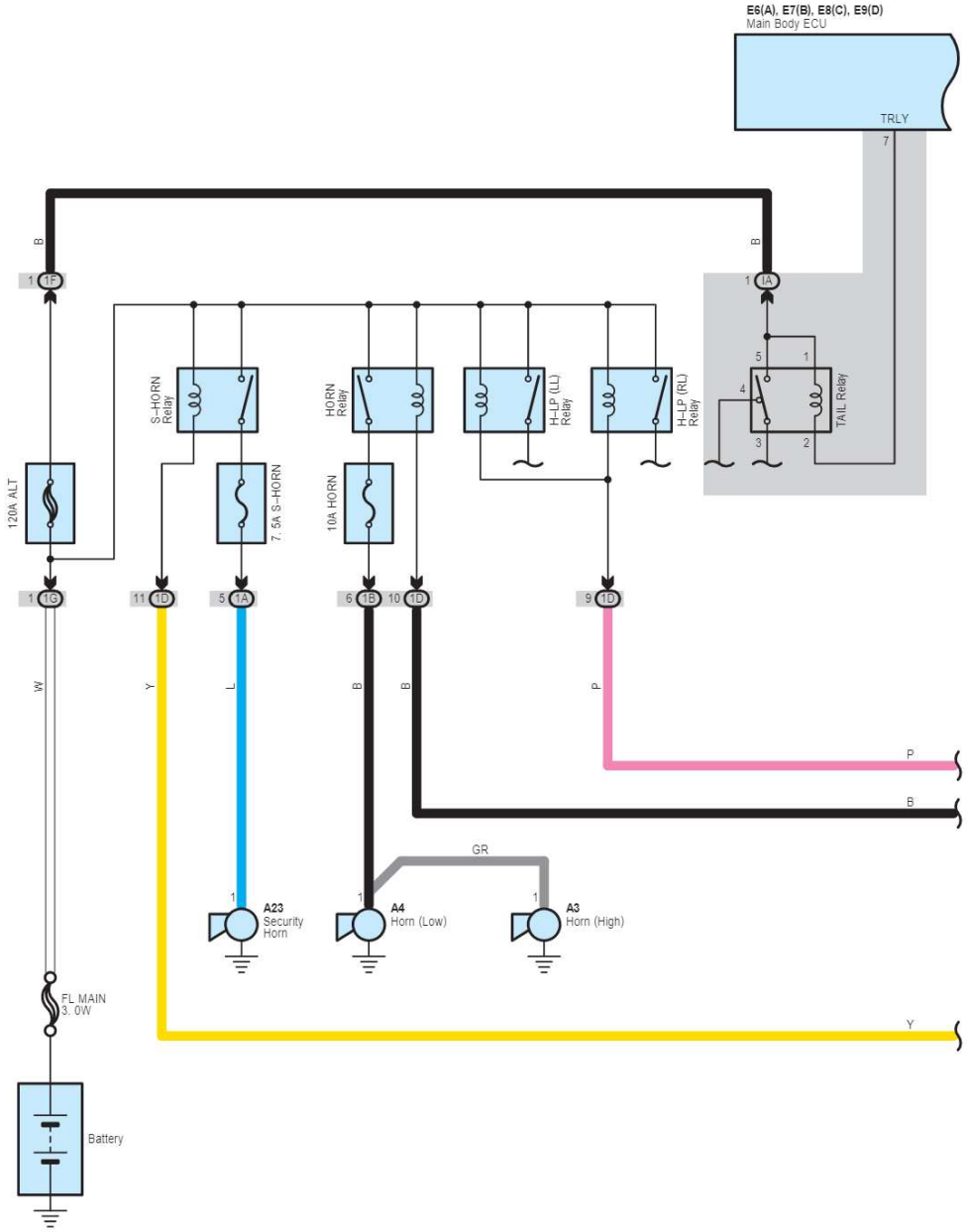
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3F		
3I		
3J		
3L		
3M		
3N		
3O		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
II	31	
IJ	30	
IK		
IL		
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IP		
IR	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

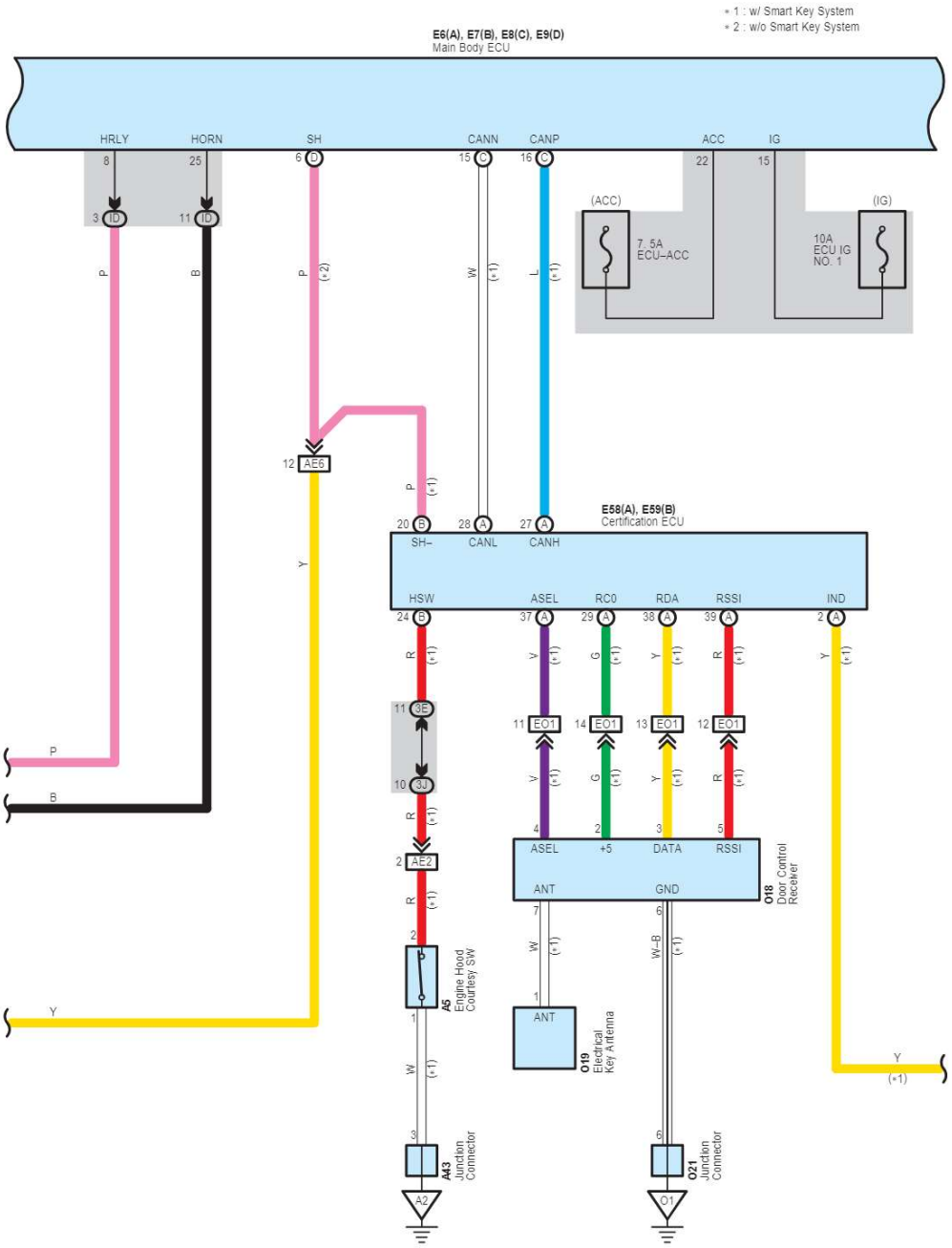
: **Connector Joining Wire Harness and Wire Harness**

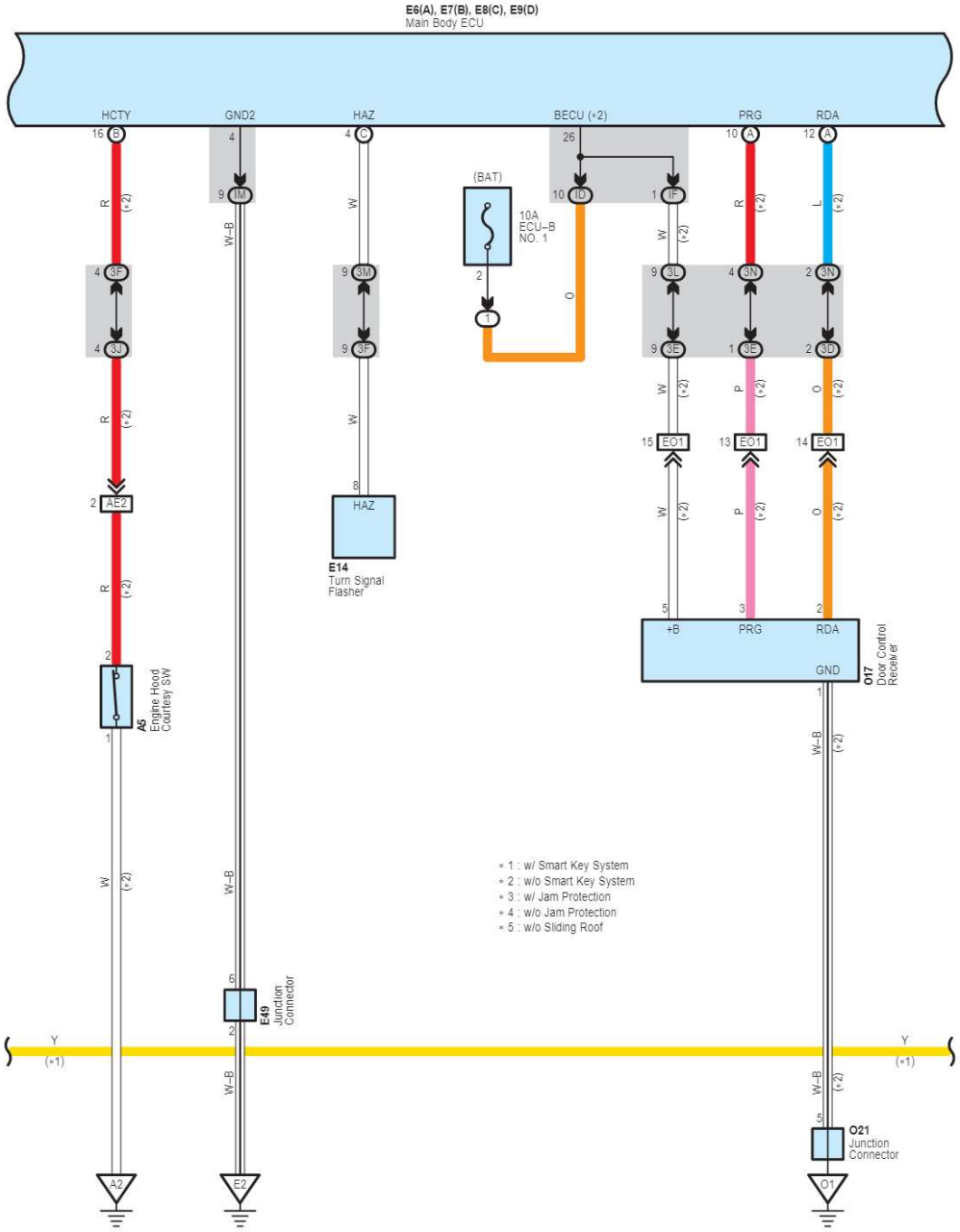
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EN2		
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EO2		
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

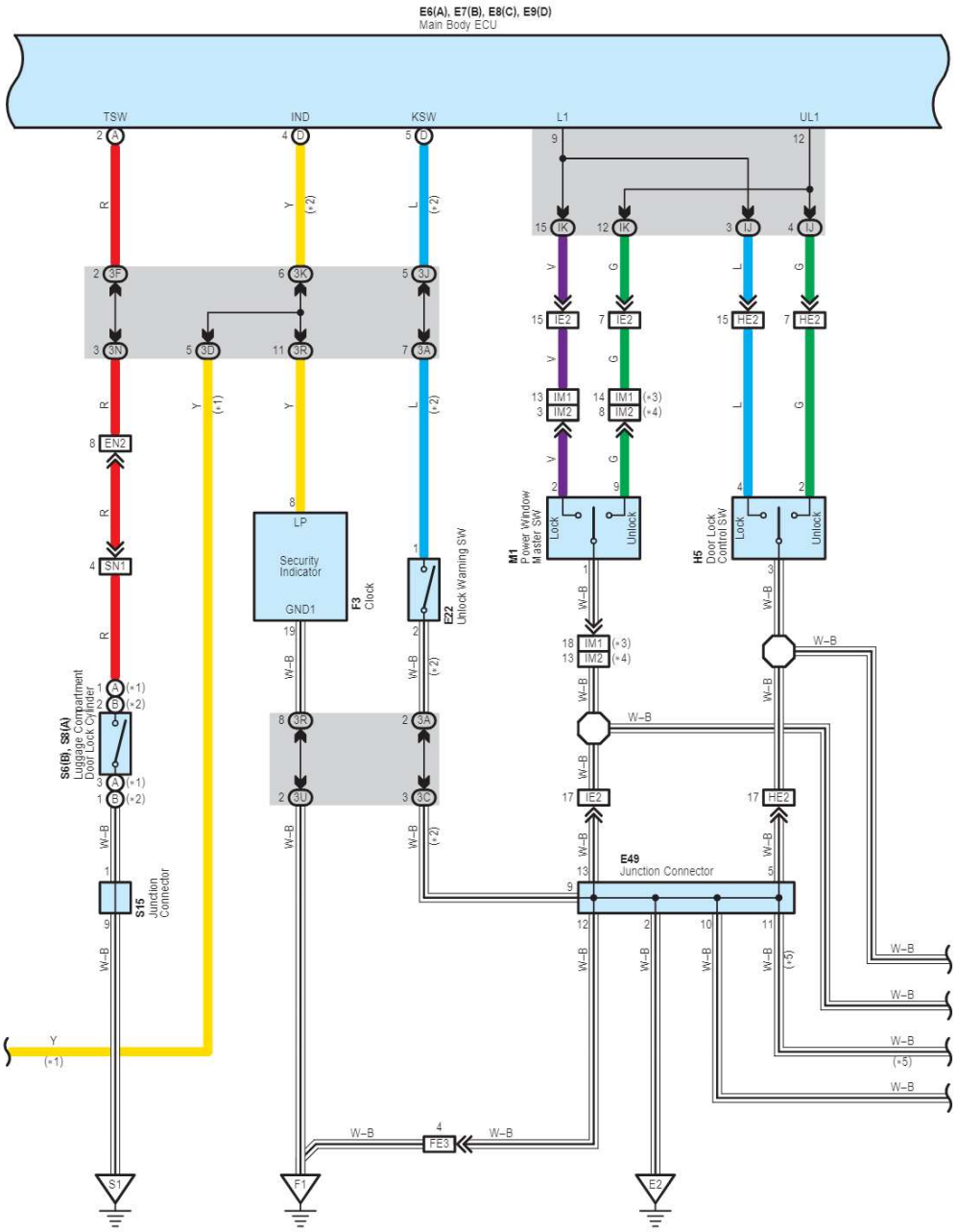
: **Ground Points**

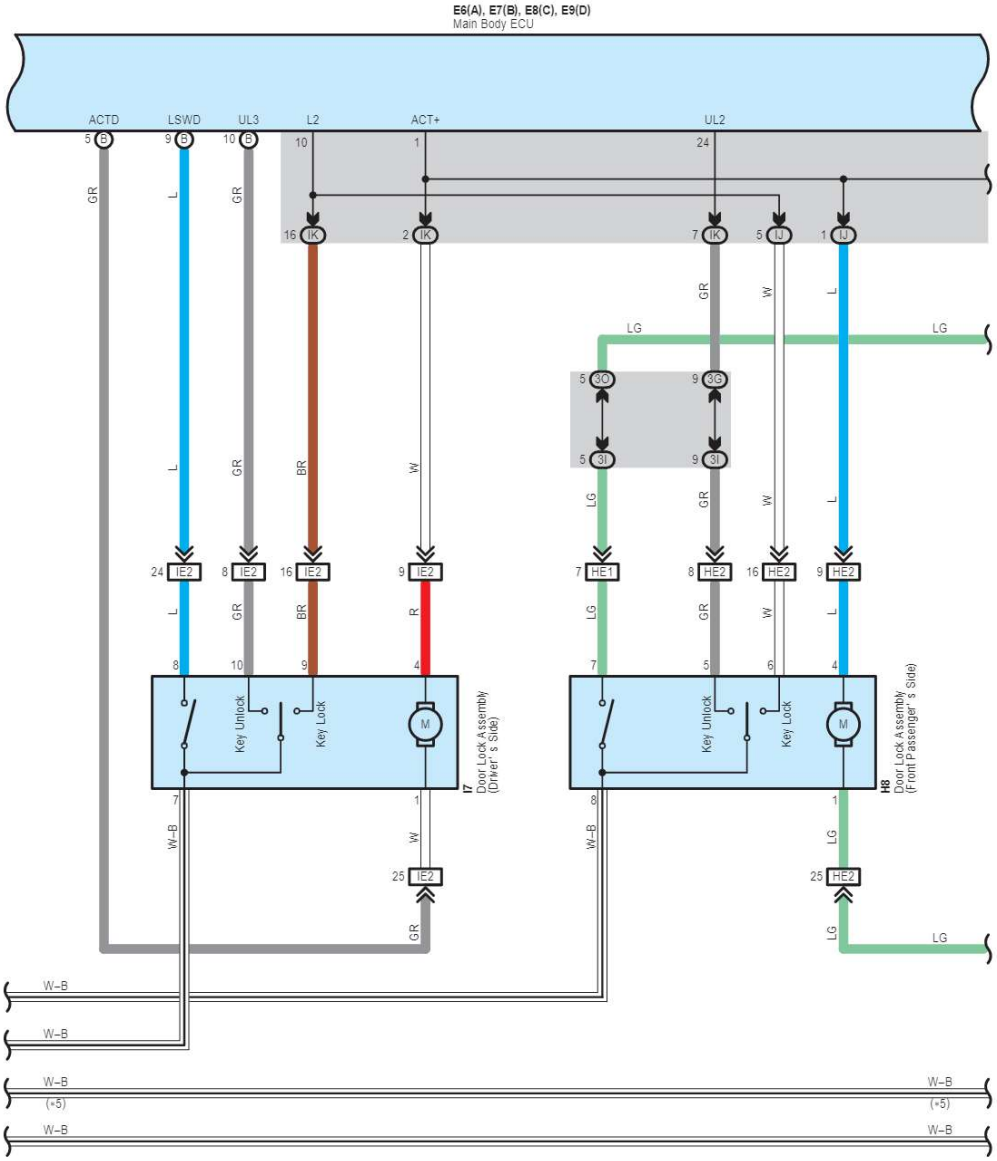
Code	See Page	Ground Points Location
A3	66	Left Cowl Side Panel
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel
O1	67	Right Rear Quarter Panel
S1	67	Lower Back Panel Center

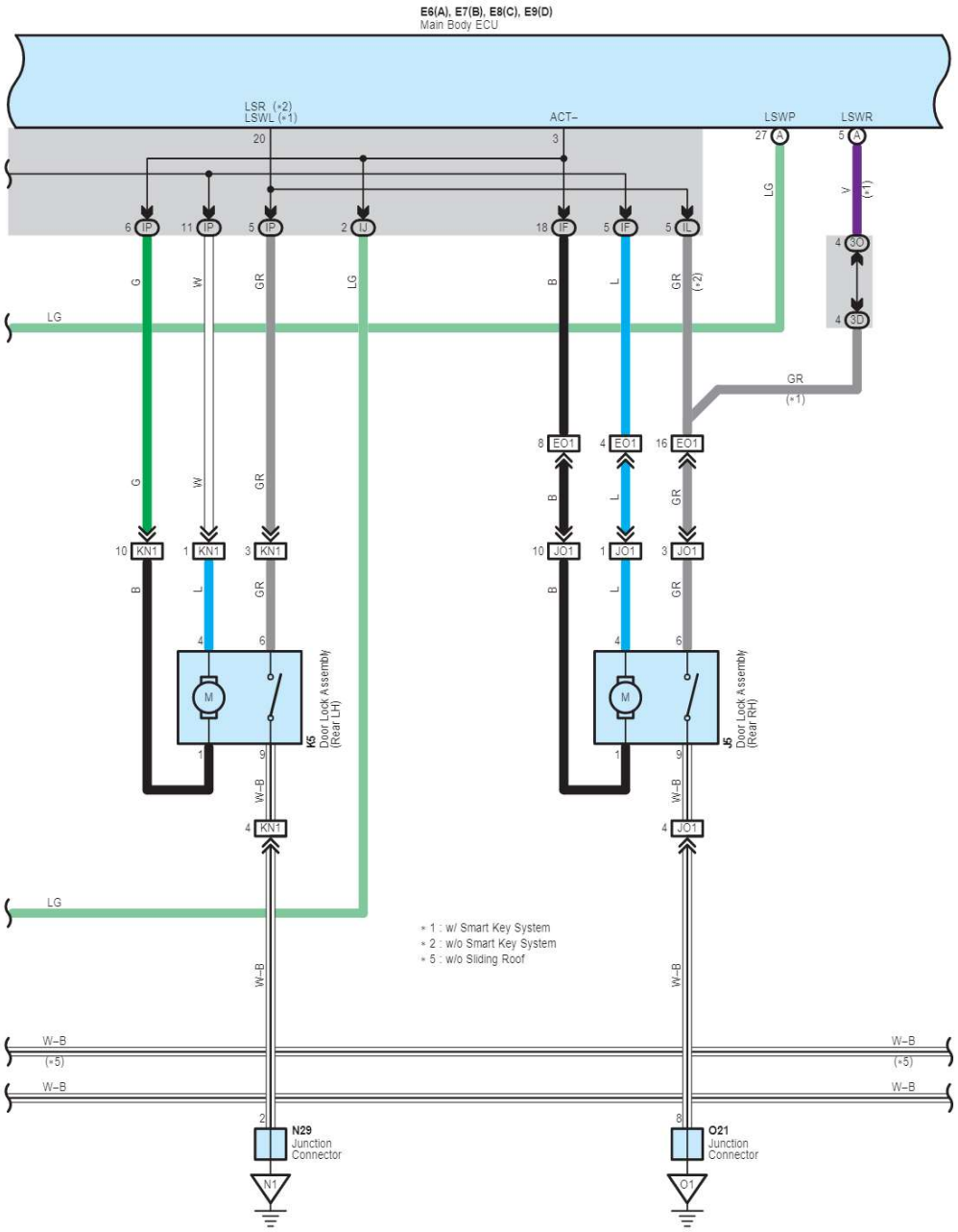

E6(A), E7(B), E8(C), E9(D)
Main Body ECU
TRLY
7
B
1F
1
B
1A
1
S-HORN Relay
HORN Relay
H-LP (LL) Relay
H-LP (RL) Relay
TAIL Relay
5
1
4
3
2
120A ALT
7. 5A S-HORN
10A HORN
1G
1
11D
5
1A
6
1B
10
1D
9
1D
W
Y
L
B
B
P
P
B
GR
A23
Security Horn
A4
Horn (Low)
A3
Horn (High)
FL MAIN
3. 0W
Y
Battery

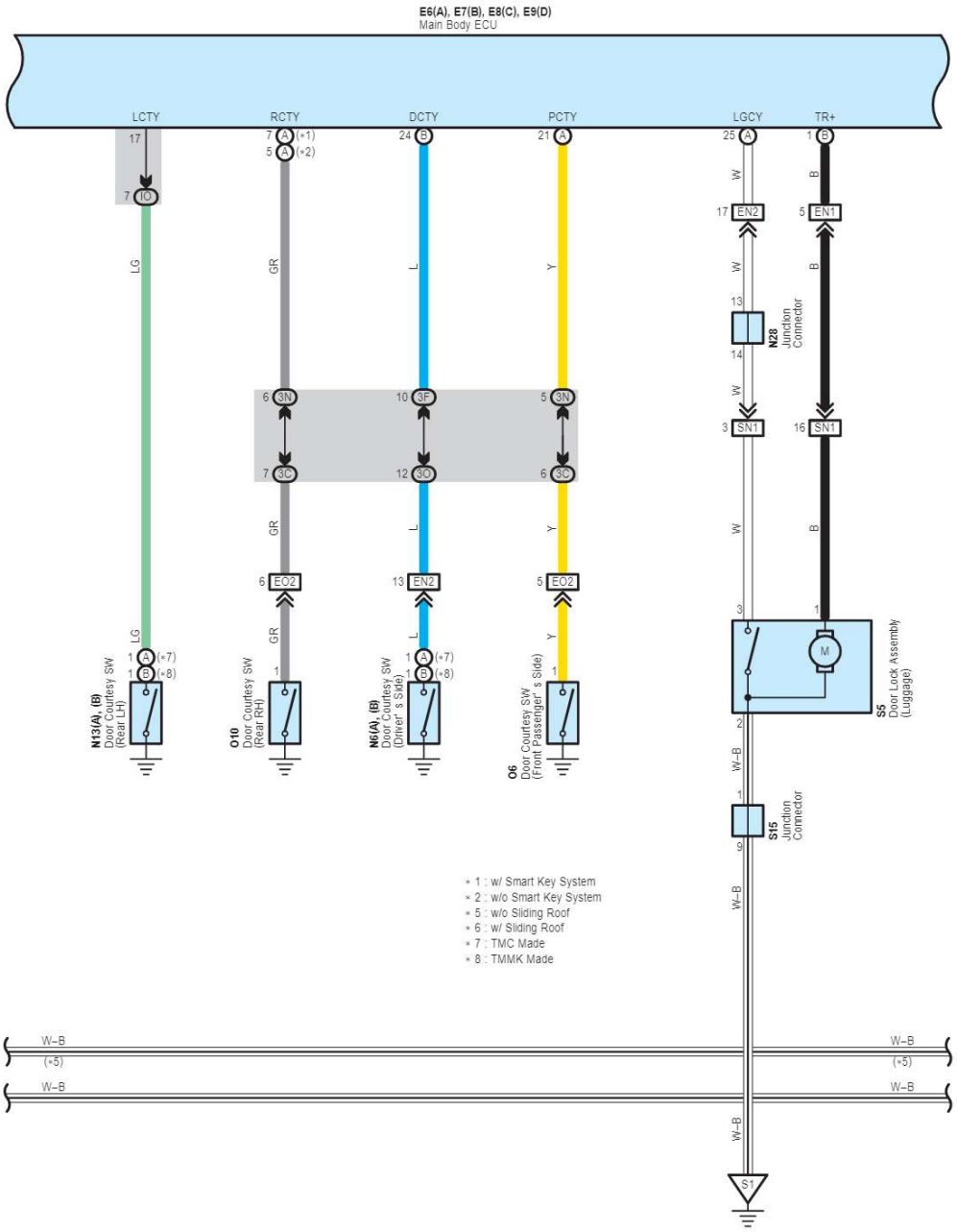

* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HRLY
HORN
SH
CANN
CANP
ACC
IG
(ACC)
7.5A
ECU-ACC
(IG)
10A
ECU IG
NO. 1
E58(A), E59(B)
Certification ECU
SH-
CANL
CANH
HSW
ASEL
RC0
RDA
RSSI
IND
ASEL
+5
DATA
RSSI
ANT
GND
O18
Door Control
Receiver
A5
Engine Hood
Courtesy SW
O19
Electrical
Key Antenna
A43
Junction
Connector
O21
Junction
Connector

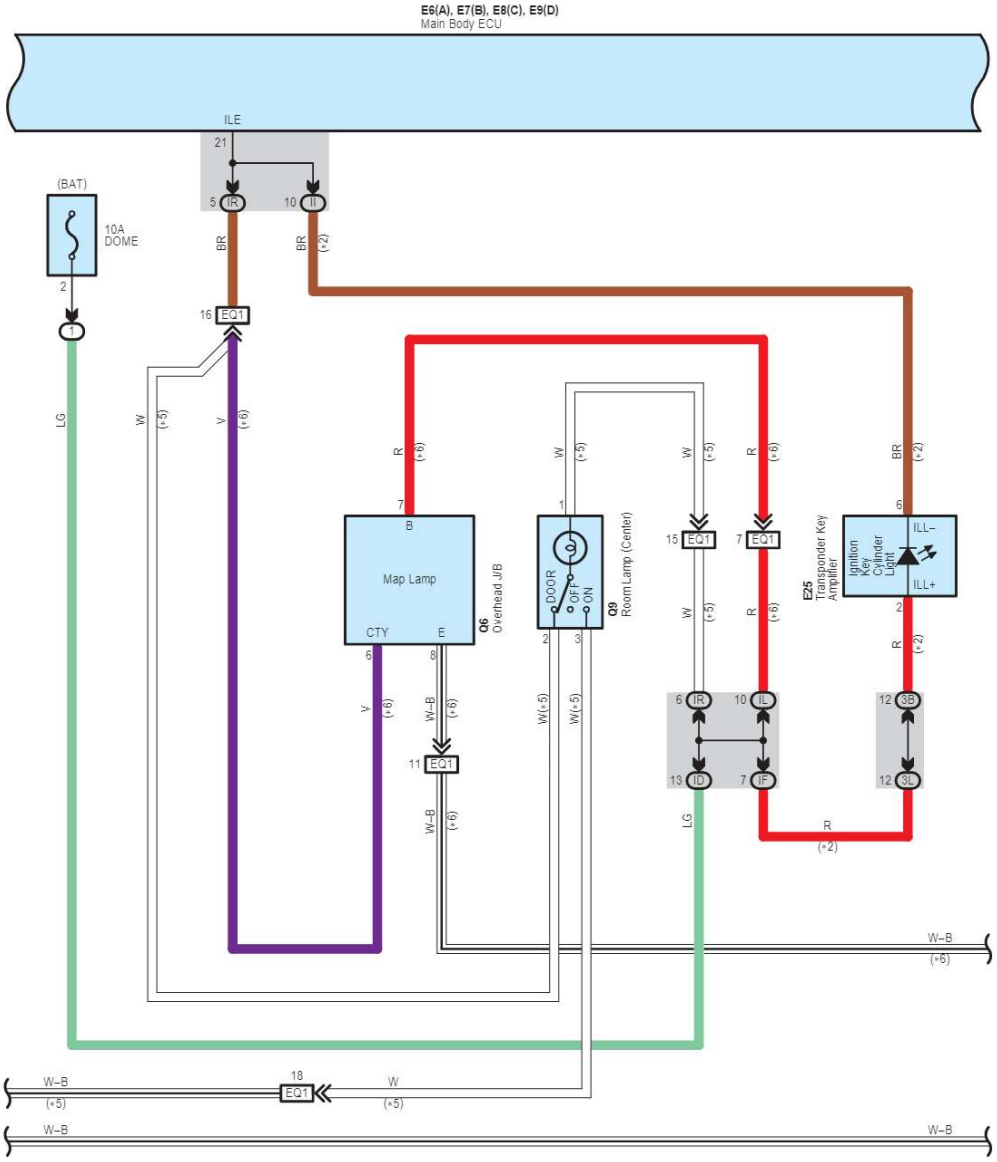

E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HCTY
GND2
HAZ
BECU (+2)
PRG
RDA
(BAT)
10A
ECU-B
NO. 1
HAZ
E14
Turn Signal
Flasher
A5
Engine Hood
Courtesy SW
E49
Junction
Connector
O17
Door Control
Receiver
+B
PRG
RDA
GND
O21
Junction
Connector
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 3 : w/ Jam Protection
* 4 : w/o Jam Protection
* 5 : w/o Sliding Roof

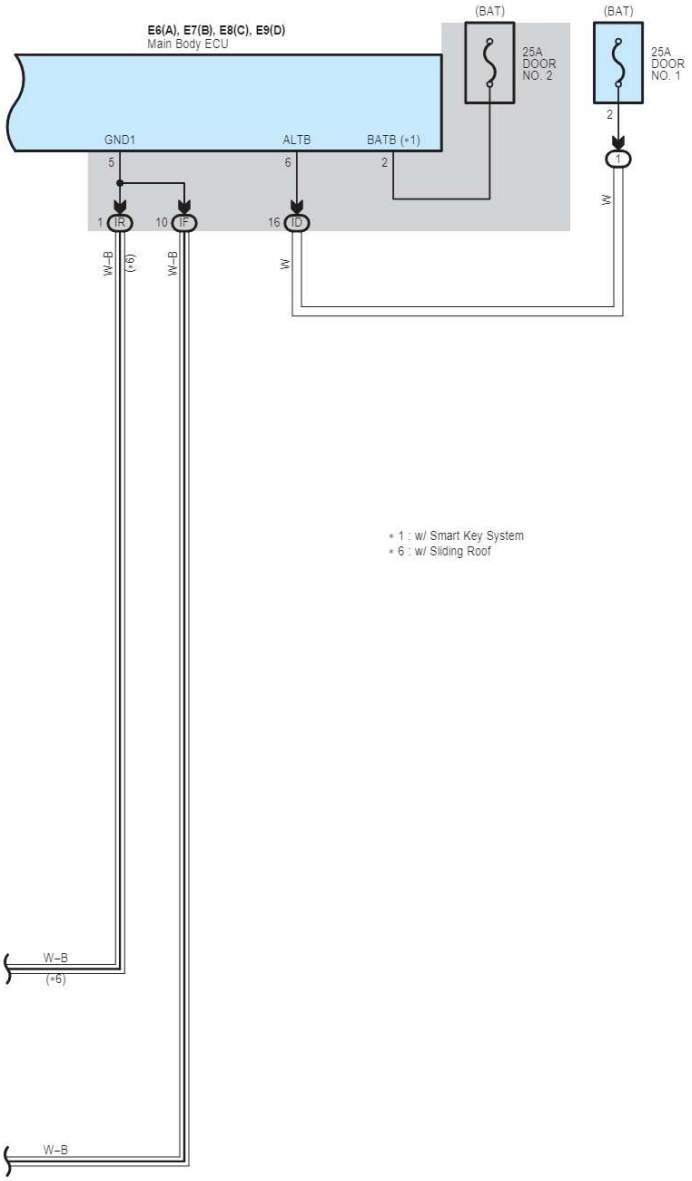

E6(A), E7(B), E8(C), E9(D)
Main Body ECU
TSW
IND
KSW
L1
UL1
S6(B), S8(A)
Luggage Compartment Door Lock Cylinder
S15
Junction Connector
Security Indicator
LP
GND1
F3
Clock
E22
Unlock Warning SW
M1
Power Window Master SW
Lock
Unlock
H5
Door Lock Control SW
E49
Junction Connector
S1
F1
E2
W–B
Y
R
L
V
G


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACTD
LSWD
UL3
L2
ACT+
UL2
Key Unlock
Key Lock
M
I7
Door Lock Assembly
(Driver's Side)
H8
Door Lock Assembly
(Front Passenger's Side)
W-B
(*5)


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LSR (*2)
LSWL (*1)
ACT–
LSWP
LSWR
20
3
27 A
5 A
6 IP
11 IP
5 IP
2 IJ
18 IF
5 IF
5 IL
4 3C
4 3D
G
W
GR
LG
B
L
GR (*2)
LG
GR (*1)
8 EO1
4 EO1
16 EO1
10 KN1
1 KN1
3 KN1
10 JO1
1 JO1
3 JO1
B
L
GR
4
6
M
1
9
K5 Door Lock Assembly (Rear LH)
J5 Door Lock Assembly (Rear RH)
W–B
4 KN1
4 JO1
LG
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 5 : w/o Sliding Roof
W–B
(*5)
2
N29 Junction Connector
N1
8
O21 Junction Connector
O1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LCTY
RCTY
DCTY
PCTY
LGCY
TR+
N13(A), (B)
Door Courtesy SW
(Rear LH)
O10
Door Courtesy SW
(Rear RH)
N6(A), (B)
Door Courtesy SW
(Driver's Side)
O6
Door Courtesy SW
(Front Passenger's Side)
N28
Junction
Connector
S5
Door Lock Assembly
(Luggage)
S15
Junction
Connector
S1
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System
* 5 : w/o Sliding Roof
* 6 : w/ Sliding Roof
* 7 : TMC Made
* 8 : TMMK Made


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ILE
21
5 IR
10 II
(BAT)
10A
DOME
2
BR
BR
(*2)
16 EQ1
LG
W
(*5)
V
(*6)
R
(*6)
7
B
Map Lamp
CTY
E
6
8
Q6
Overhead J/B
V
(*6)
W-B
(*6)
11 EQ1
W-B
(*6)
W
(*5)
1
DOOR
OFF
ON
Q9
Room Lamp (Center)
2
3
W(*5)
W(*5)
W
(*5)
15 EQ1
W
(*5)
R
(*6)
7 EQ1
R
(*6)
6 IR
10 IL
13 ID
7 IF
LG
R
(*2)
E25
Transponder Key
Amplifier
Ignition
Key
Cylinder
Light
ILL-
ILL+
6
2
BR
(*2)
R
(*2)
12 3B
12 3L
W-B
(*6)
W-B
(*5)
18
EQ1
W
(*5)
W-B
W-B



* 1 : w/ Smart Key System
* 6 : w/ Sliding Roof

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A3	48 (2GR–FE)	E25	56	N28	60
	52 (2AZ–FE)	E49	57	N29	60
A4	48 (2GR–FE)	E58 A	57	O6	60
	52 (2AZ–FE)	E59 B	57	O10	60
A5	48 (2GR–FE)	F3	58	O17	60
	52 (2AZ–FE)	H5	61	O18	60
A23	48 (2GR–FE)	H8	61	O19	60
	52 (2AZ–FE)	I7	61	O21	60
A43	49 (2GR–FE)	J5	61	Q6	61
E6 A	56	K5	61	Q9	61
E7 B	56	M1	61	S5	61
E8 C	56	N6 A	60	S6 B	61
E9 D	56	N6 B	60	S8 A	61
E14	56	N13 A	60	S15	61
E22	56	N13 B	60		

▭ : **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

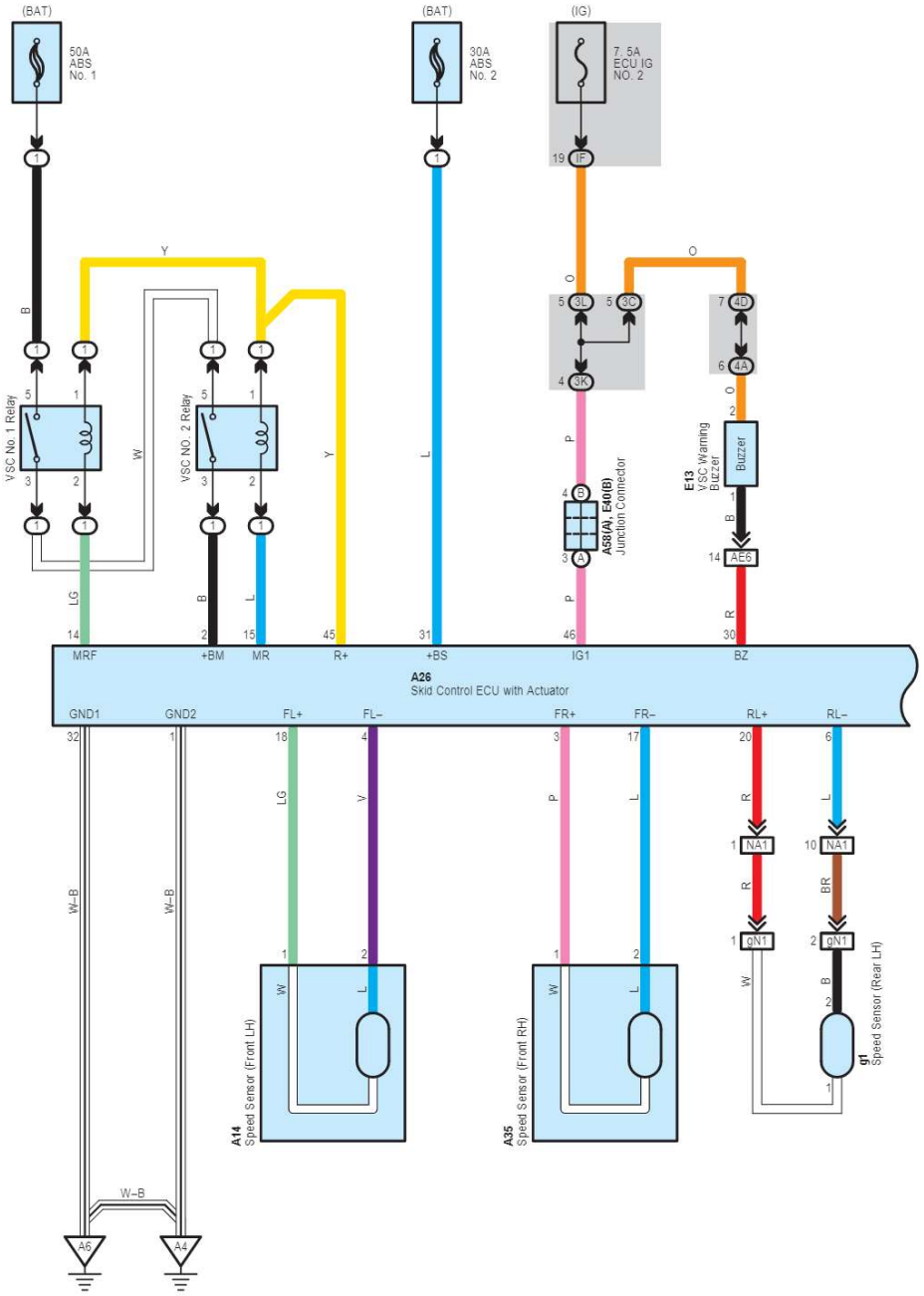
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3F		
3G		
3I		
3J		
3K		
3L		
3M		
3N		
3O		
3R	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IA	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
II	31	
IJ	30	
IK		
IL		
IM		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IP		
IR	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

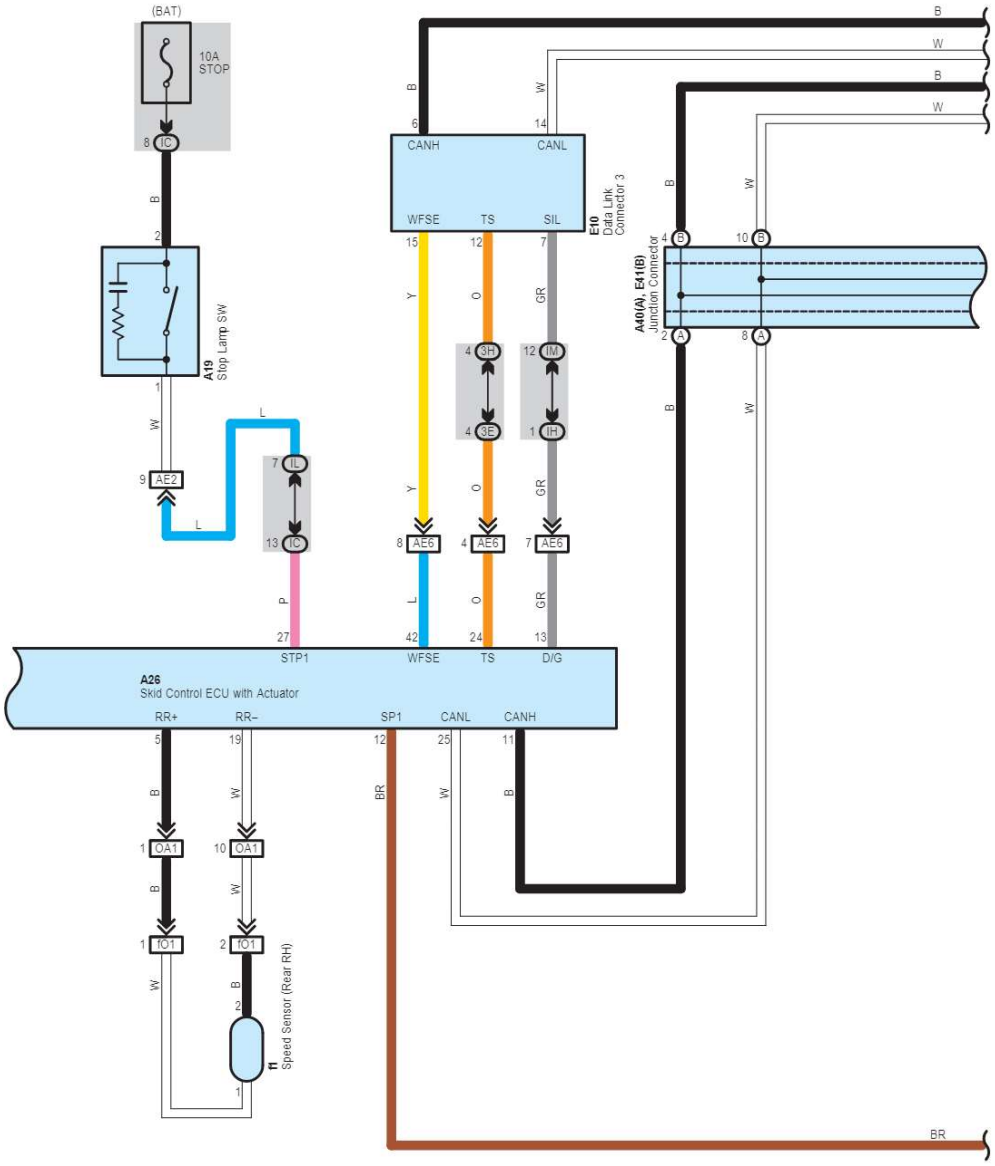
: Connector Joining Wire Harness and Wire Harness

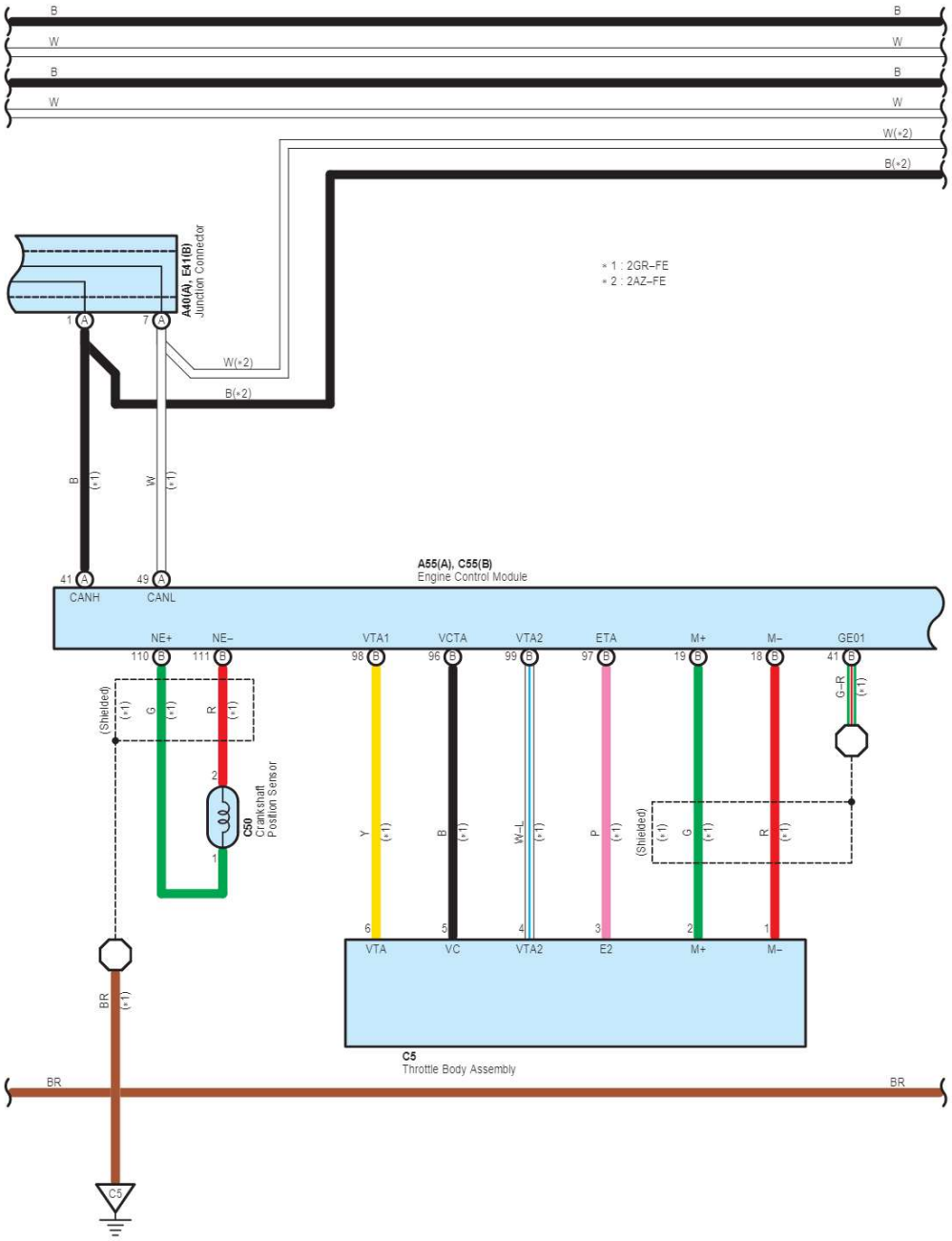
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
EN1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EN2		
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EO2		
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	67	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
IM2		
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

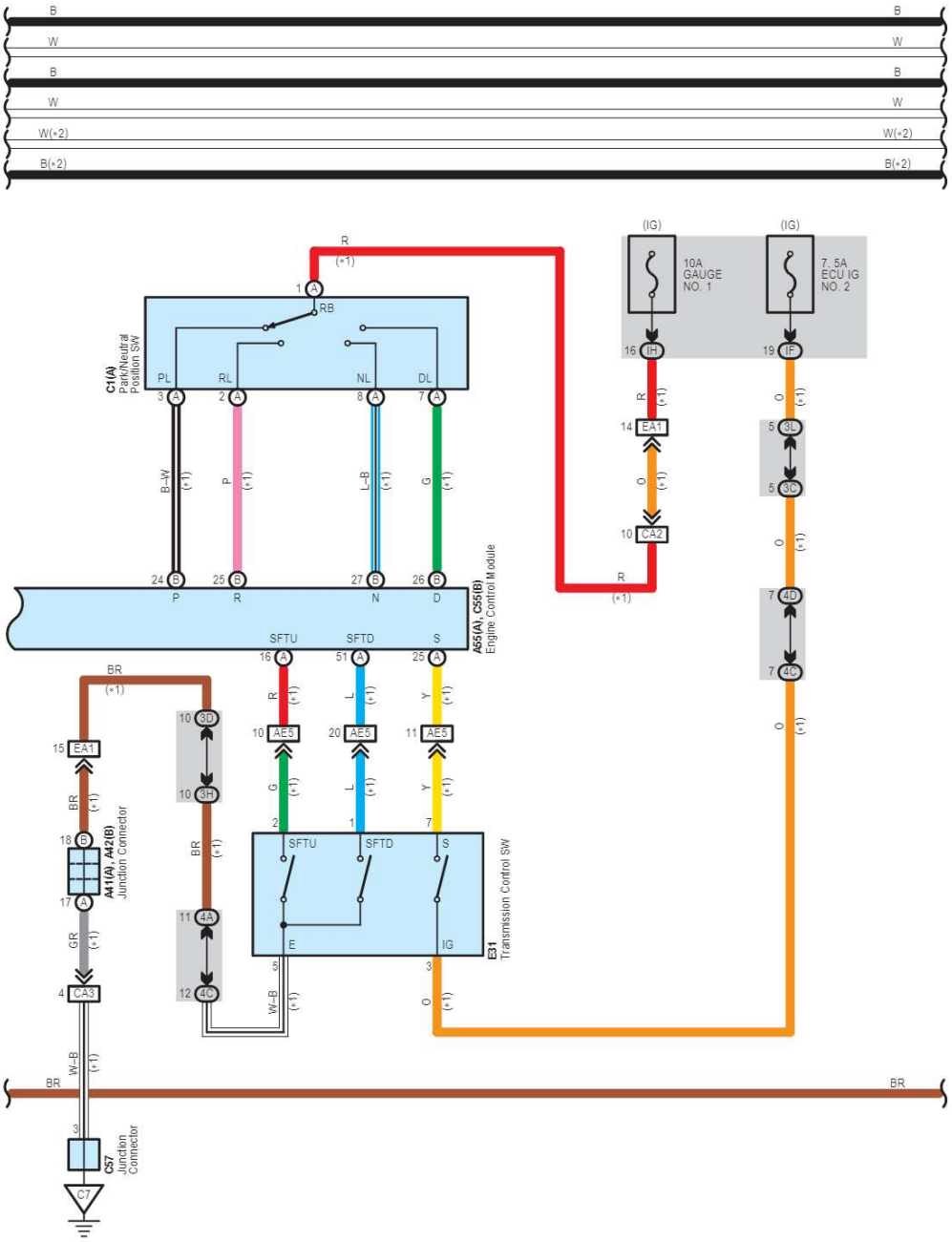
▽ : **Ground Points**

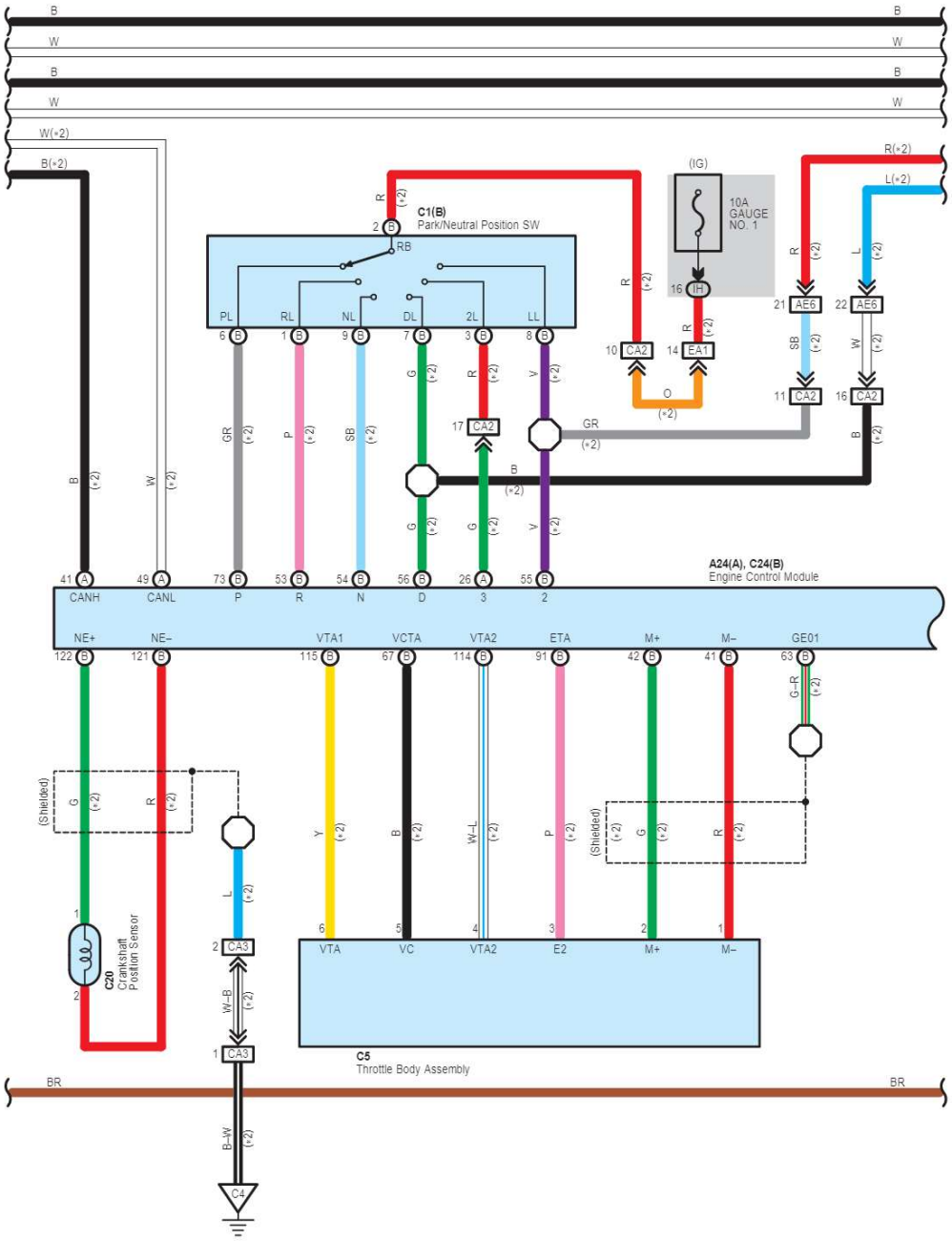
Code	See Page	Ground Points Location
A2	64 (2GR–FE) 65 (2AZ–FE)	Front Left Fender
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
N1	67	Left Rear Quarter Panel
O1	67	Right Rear Quarter Panel
S1	67	Lower Back Panel Center

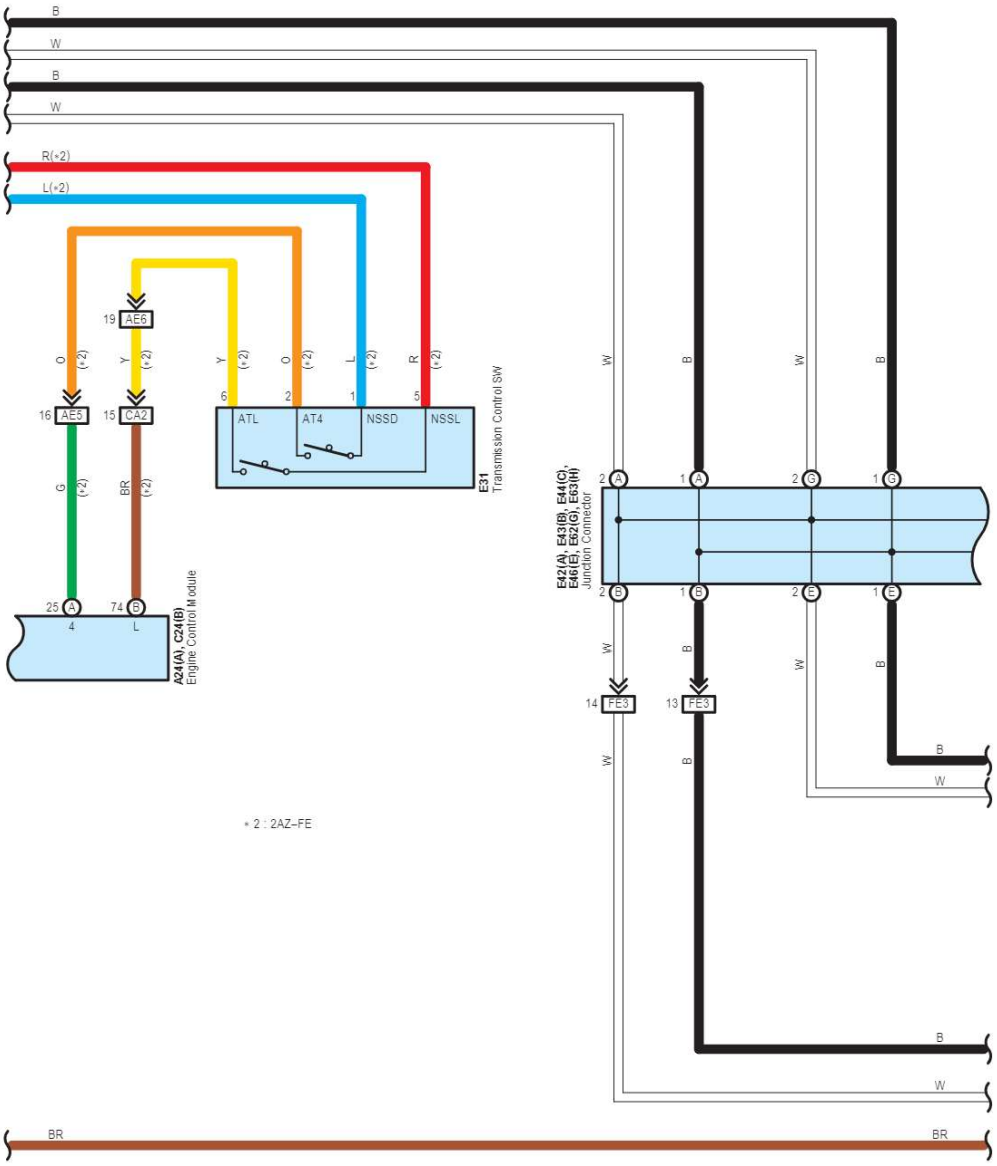

(BAT)
50A ABS No. 1
(BAT)
30A ABS No. 2
(IG)
7.5A ECU IG NO. 2
VSC No. 1 Relay
VSC NO. 2 Relay
A58(A), E40(B) Junction Connector
E13 VSC Warning Buzzer
Buzzer
MRF
+BM
MR
R+
+BS
IG1
BZ
A26 Skid Control ECU with Actuator
GND1
GND2
FL+
FL–
FR+
FR–
RL+
RL–
A14 Speed Sensor (Front LH)
A35 Speed Sensor (Front RH)
g1 Speed Sensor (Rear LH)
W–B

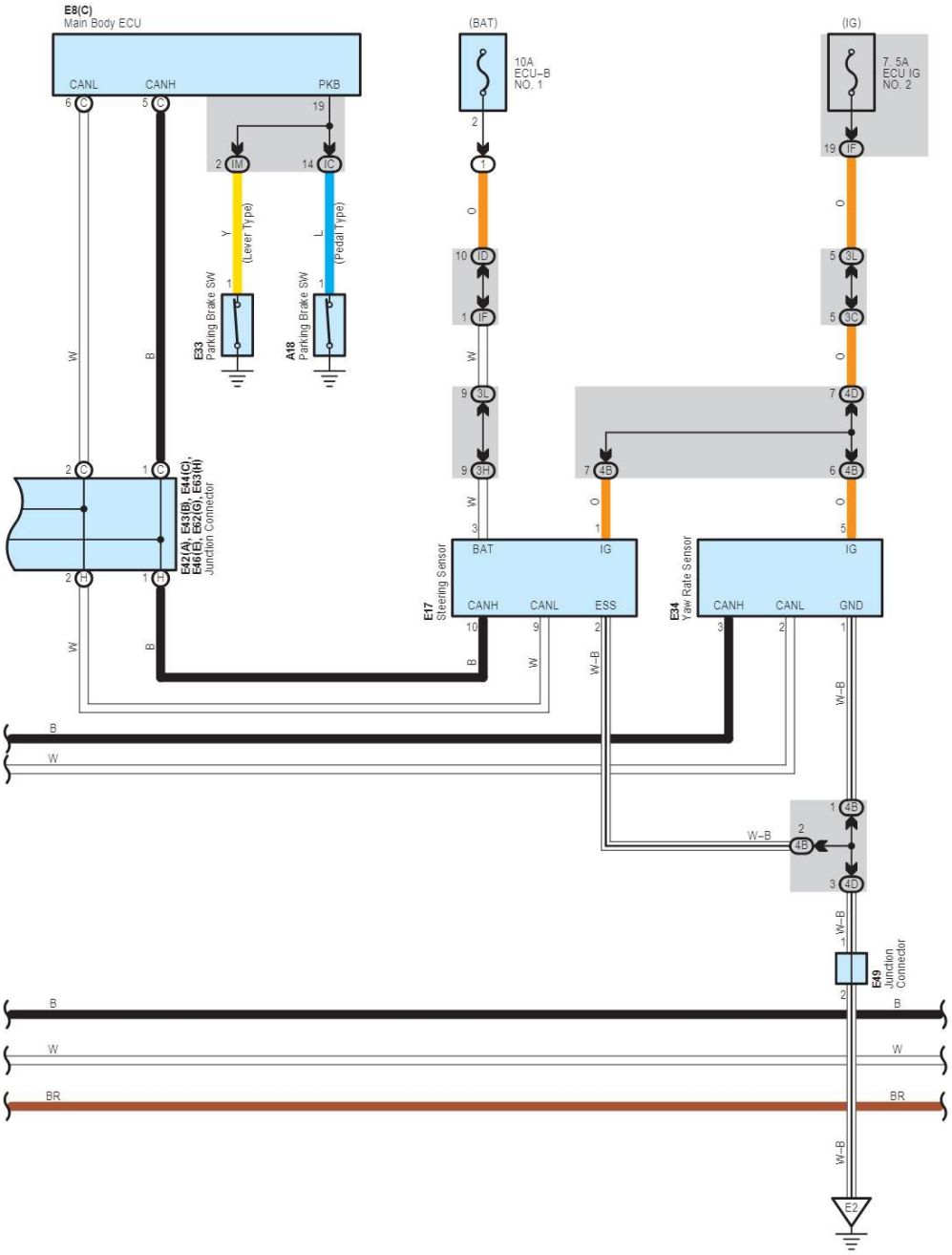

(BAT)
10A
STOP
8 IC
B
2
A19
Stop Lamp SW
1
W
9 AE2
L
L
7 IL
13 IC
P
27 STP1
B
6
CANH
W
14
CANL
E10
Data Link
Connector 3
WFSE
TS
SIL
15
12
7
Y
O
GR
4 3H
4 3E
12 IM
1 IH
Y
O
GR
8 AE6
4 AE6
7 AE6
L
O
GR
42 WFSE
24 TS
13 D/G
A40(A), E41(B)
Junction Connector
4 B
10 B
2 A
8 A
B
W
B
W
B
W
A26
Skid Control ECU with Actuator
RR+
RR−
SP1
CANL
CANH
5
19
12
25
11
B
W
BR
W
B
1 OA1
10 OA1
B
W
1 TO1
2 TO1
W
B
2
1
f1
Speed Sensor (Rear RH)
BR

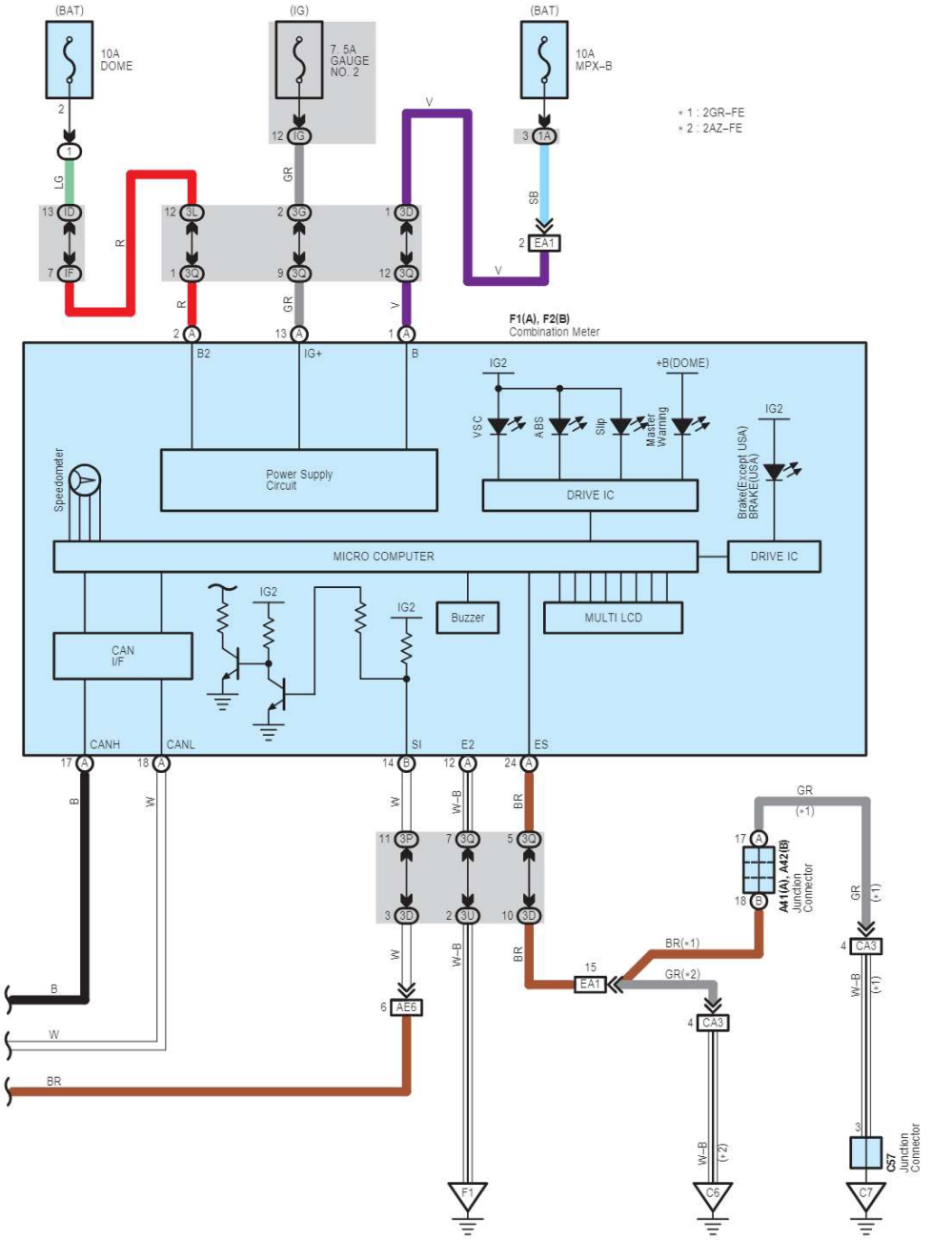

B
W
B
W
B
W
W(*2)
B(*2)
A40(A), E41(B)
Junction Connector
1
7
W(*2)
B(*2)
* 1 : 2GR-FE
* 2 : 2AZ-FE
B (+1)
W (+1)
41
49
CANH
CANL
A55(A), C55(B)
Engine Control Module
NE+
NE-
VTA1
VCTA
VTA2
ETA
M+
M-
GE01
110
111
98
96
99
97
19
18
41
(Shielded)
G (+1)
R (+1)
G-R (+1)
C50
Crankshaft
Position Sensor
Y (+1)
B (+1)
W-L (+1)
P (+1)
G (+1)
R (+1)
6
5
4
3
2
1
VTA
VC
VTA2
E2
M+
M-
C5
Throttle Body Assembly
BR (+1)
BR
BR
C5


B
W
B
W
W(+2)
B(+2)
B
W
B
W
W(+2)
B(+2)
(IG)
(IG)
10A GAUGE NO. 1
7. 5A ECU IG NO. 2
C1(A) Park/Neutral Position SW
PL
RL
NL
DL
RB
A55(A), C55(B) Engine Control Module
SFTU
SFTD
S
E31 Transmission Control SW
E
IG
A41(A), A42(B) Junction Connector
C57 Junction Connector
C7
R (+1)
B–W (+1)
P (+1)
L–B (+1)
G (+1)
O (+1)
BR (+1)
GR (+1)
W–B (+1)
Y (+1)
L (+1)
BR
BR


B
W
B
W
W(+2)
B(+2)
R(+2)
L(+2)
(IG)
10A
GAUGE
NO. 1
C1(B)
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
CA2
EA1
AE6
A24(A), C24(B)
Engine Control Module
CANH
CANL
P
R
N
D
3
2
NE+
NE–
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
(Shielded)
C20
Crankshaft
Position Sensor
CA3
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
BR
C4


B
W
B
W
R(*2)
L(*2)
19 AE6
16 AE5
15 CA2
O (*2)
Y (*2)
Y (*2)
O (*2)
L (*2)
R (*2)
6
2
1
5
ATL
AT4
NSSD
NSSL
E31
Transmission Control SW
G (*2)
BR (*2)
25 A
74 B
4
L
A24(A), C24(B)
Engine Control Module
W
B
W
B
E42(A), E43(B), E44(C),
E46(E), E62(G), E63(H)
Junction Connector
2 A
1 A
2 G
1 G
2 B
1 B
2 E
1 E
W
B
W
B
14 FE3
13 FE3
W
B
B
W
B
W
BR
BR
* 2 : 2AZ-FE


E8(C)
Main Body ECU
CANL
CANH
PKB
(BAT)
10A
ECU-B
NO. 1
(IG)
7. 5A
ECU IG
NO. 2
(Lever Type)
(Pedal Type)
E33
Parking Brake SW
A18
Parking Brake SW
E42(A), E43(B), E44(C),
E46(E), E62(G), E63(H)
Junction Connector
E17
Steering Sensor
BAT
IG
CANH
CANL
ESS
E34
Yaw Rate Sensor
GND
E49
Junction
Connector
E2


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
F1(A), F2(B)
Combination Meter
B2
IG+
B
IG2
+B(DOME)
VSC
ABS
Slip
Master
Warning
Brake(Except USA)
BRAKE(USA)
Speedometer
Power Supply
Circuit
DRIVE IC
MICRO COMPUTER
Buzzer
MULTI LCD
CAN
I/F
CANH
CANL
SI
E2
ES
A41(A), A42(B)
Junction
Connector
CS7
Junction
Connector
BR(*1)
GR(*2)
W–B
(*2)
W–B
(*1)
GR
(*1)

System Outline

1. ABS Operation

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

2. Traction Control Operation

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

3. VSC Operation

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

4. Fail Safe Function

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A14	48 (2GR–FE)	C1 B	54 (2AZ–FE)	E40 B	57
	52 (2AZ–FE)	C5	50 (2GR–FE)	E41 B	57
A18	59		54 (2AZ–FE)	E42 A	57
A19	59	C20	55 (2AZ–FE)	E43 B	57
A24 A	52 (2AZ–FE)	C24 B	55 (2AZ–FE)	E44 C	57
A26	48 (2GR–FE)	C50	51 (2GR–FE)	E46 E	57
	52 (2AZ–FE)	C55 B	51 (2GR–FE)	E49	57
A35	48 (2GR–FE)	C57	51 (2GR–FE)	E62 G	57
	52 (2AZ–FE)	E8 C	56	E63 H	57
A40 A	59	E10	56	F1 A	58
A41 A	59	E13	56	F2 B	58
A42 B	59	E17	56	f1	61
A55 A	49 (2GR–FE)	E31	56	g1	61
A58 A	59	E33	56		
C1 A	50 (2GR–FE)	E34	57		

▭ : 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**

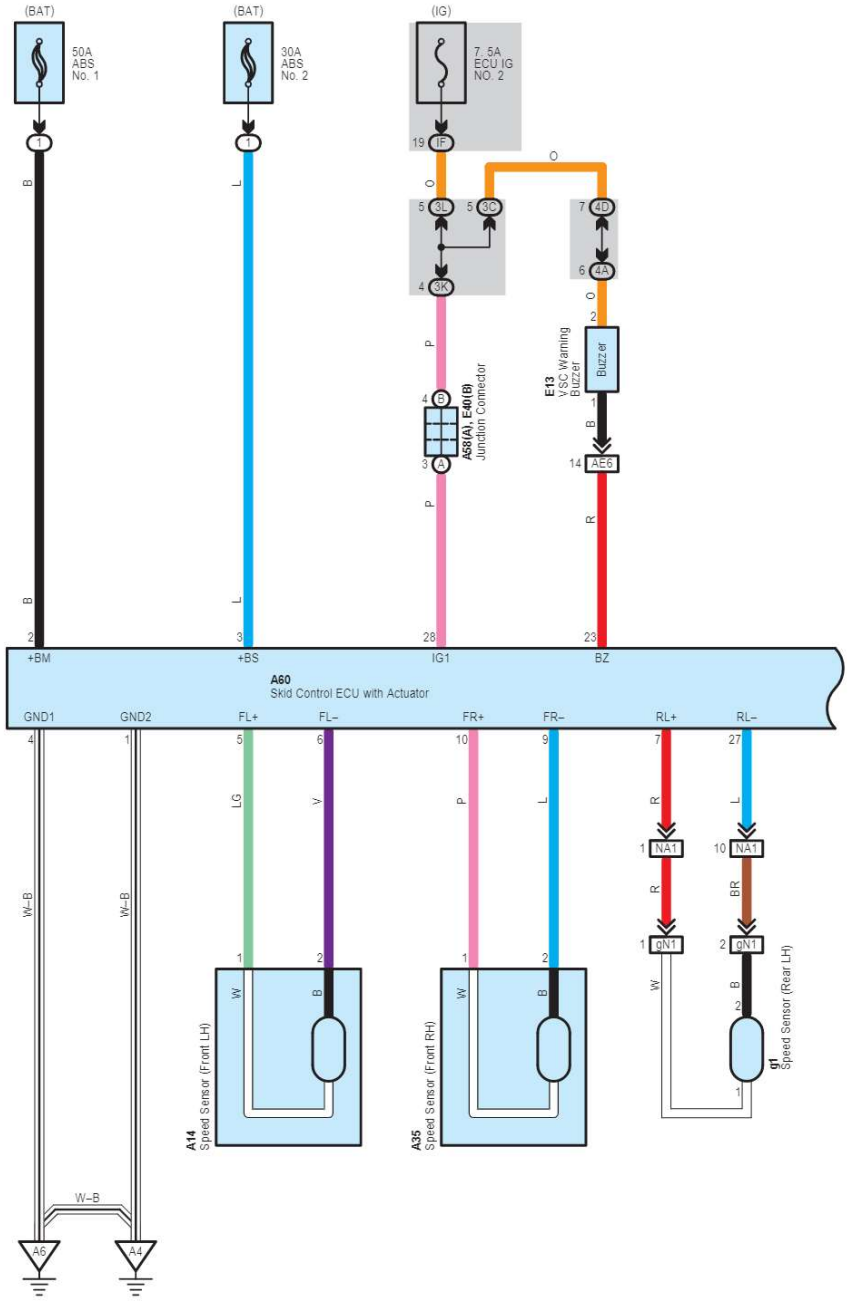
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4B		
4C		
4D		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
IL	30	
IM		

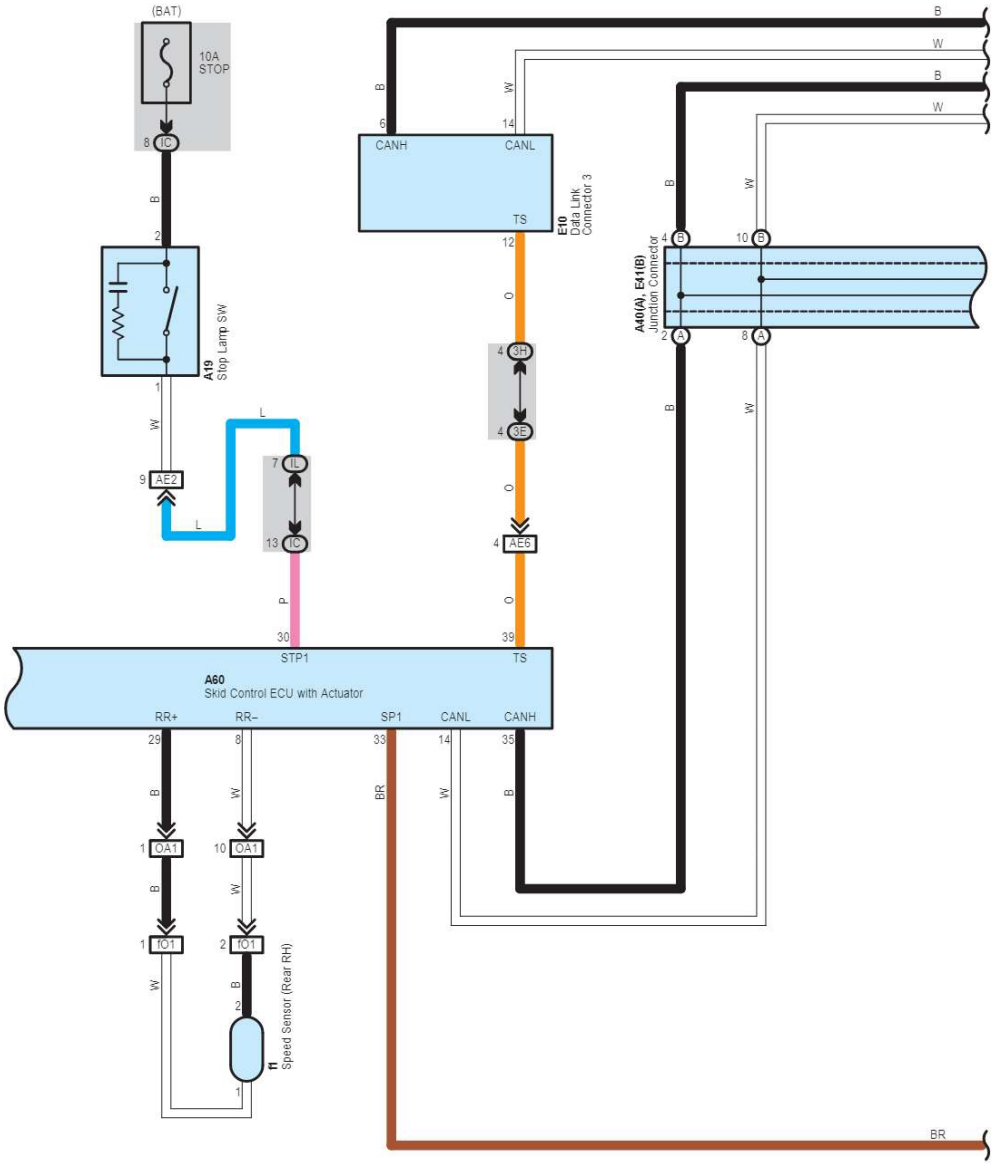
: **Connector Joining Wire Harness and Wire Harness**

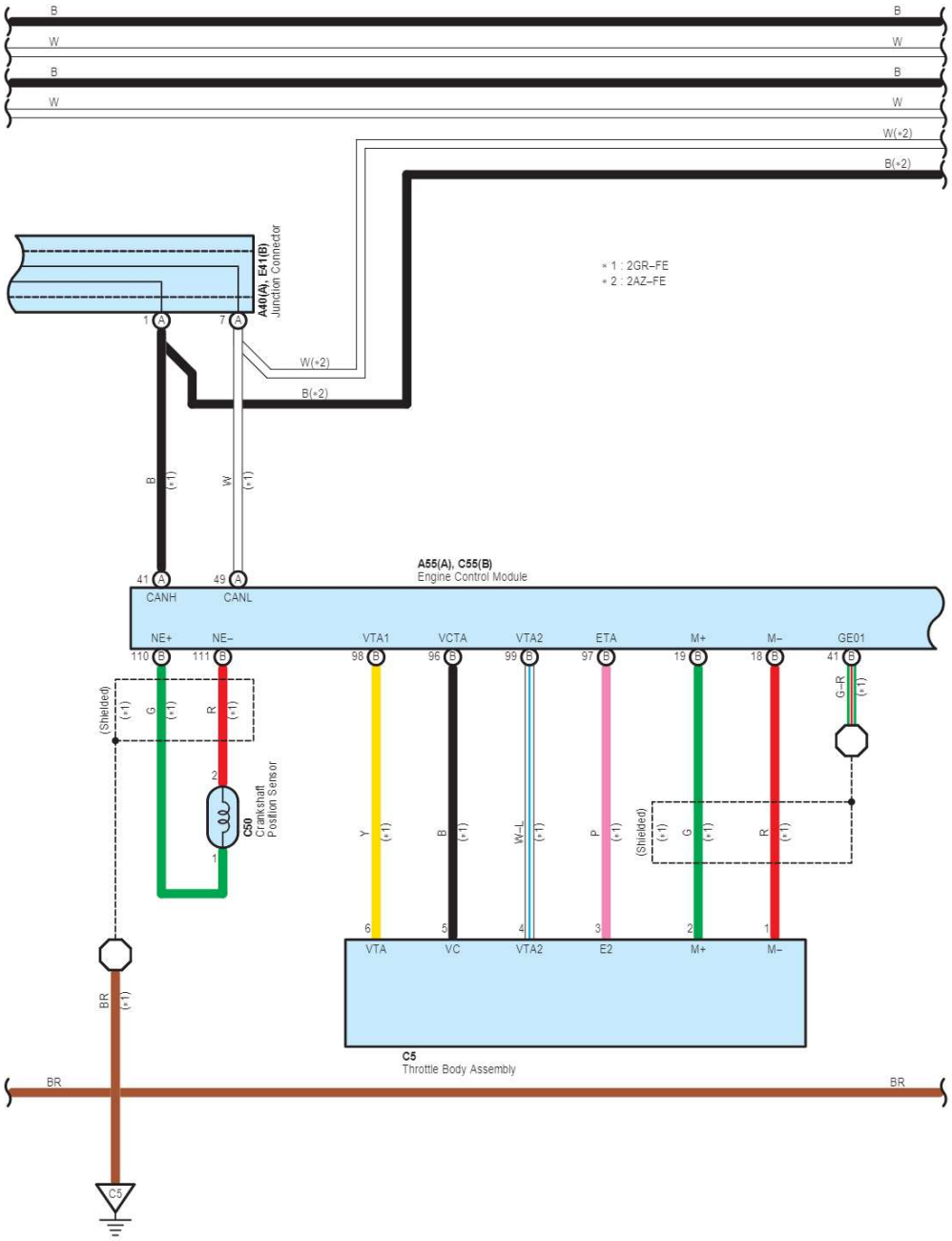
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)
OA1	66	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
fO1	67	Skid Control Sensor Wire and Floor No.2 Wire (Quarter Wheel House Panel LH)
gN1	67	Skid Control Sensor Wire and Floor Wire (Quarter Wheel House Panel RH)

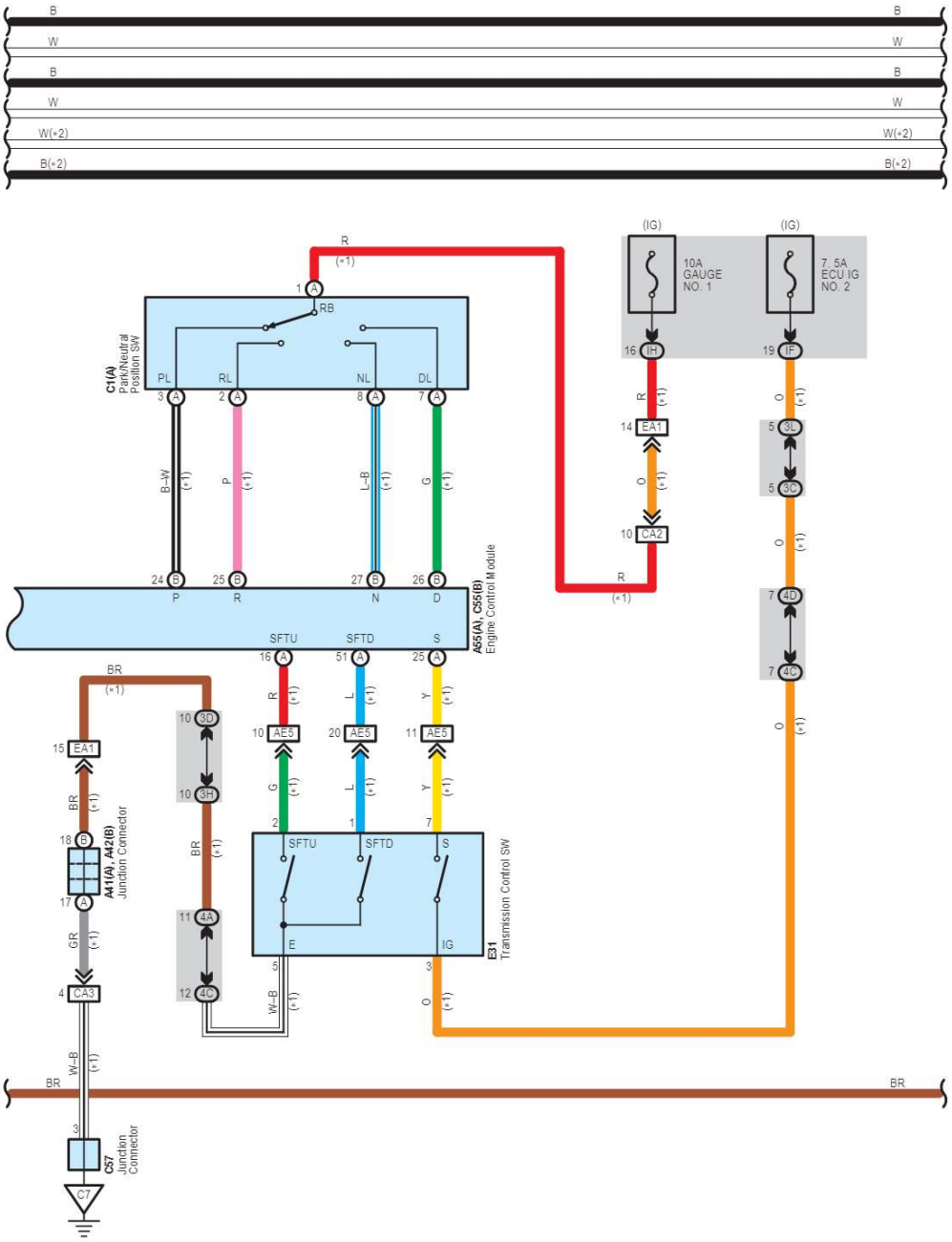
: **Ground Points**

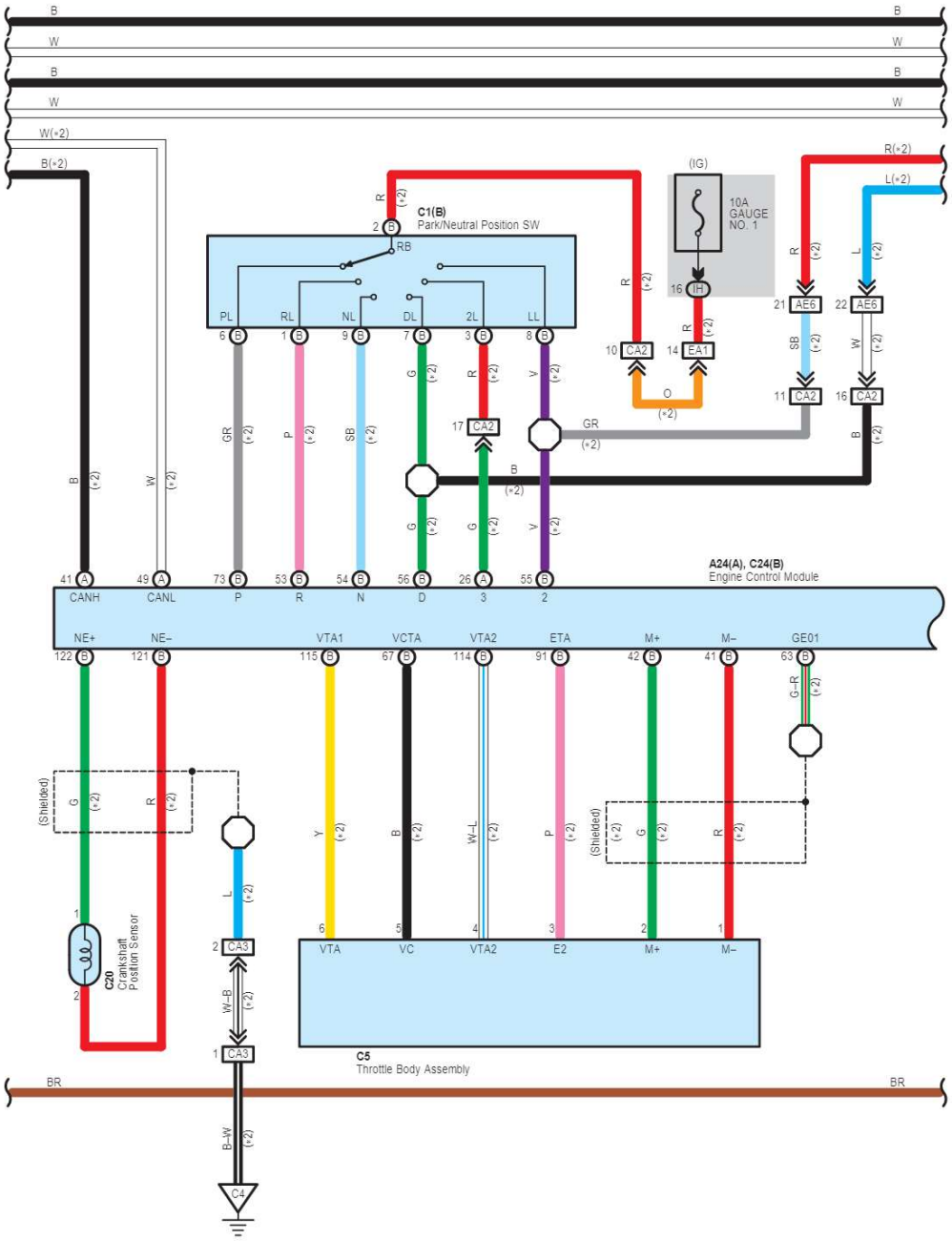
Code	See Page	Ground Points Location
A4	64 (2GR–FE)	Near the Skid Control ECU with Actuator
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

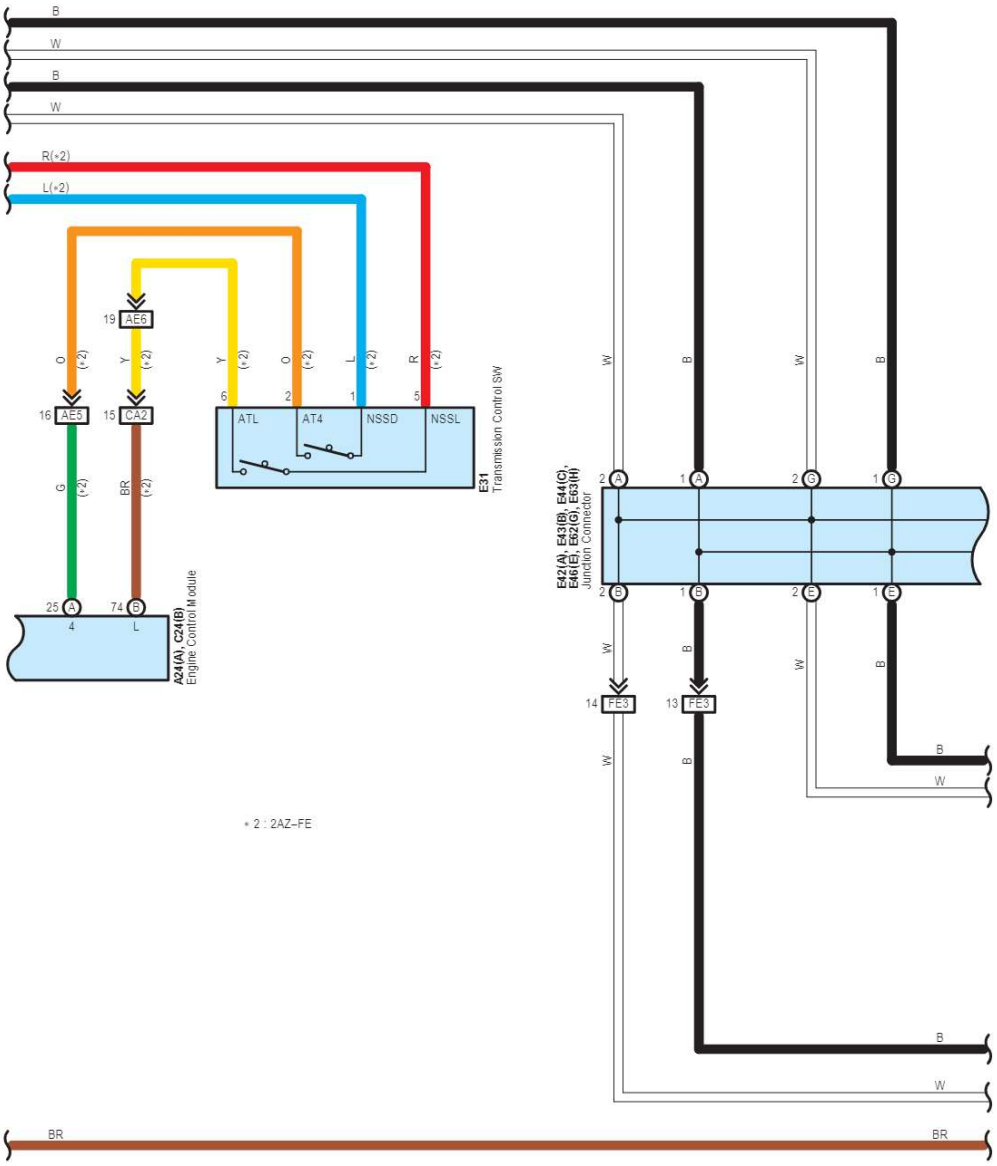

(BAT)
50A
ABS
No. 1
(BAT)
30A
ABS
No. 2
(IG)
7. 5A
ECU IG
NO. 2
E13
VSC Warning
Buzzer
Buzzer
A58(A), E40(B)
Junction Connector
+BM
+BS
IG1
BZ
A60
Skid Control ECU with Actuator
GND1
GND2
FL+
FL–
FR+
FR–
RL+
RL–
A14
Speed Sensor (Front LH)
A35
Speed Sensor (Front RH)
g1
Speed Sensor (Rear LH)
W–B
A6
A4

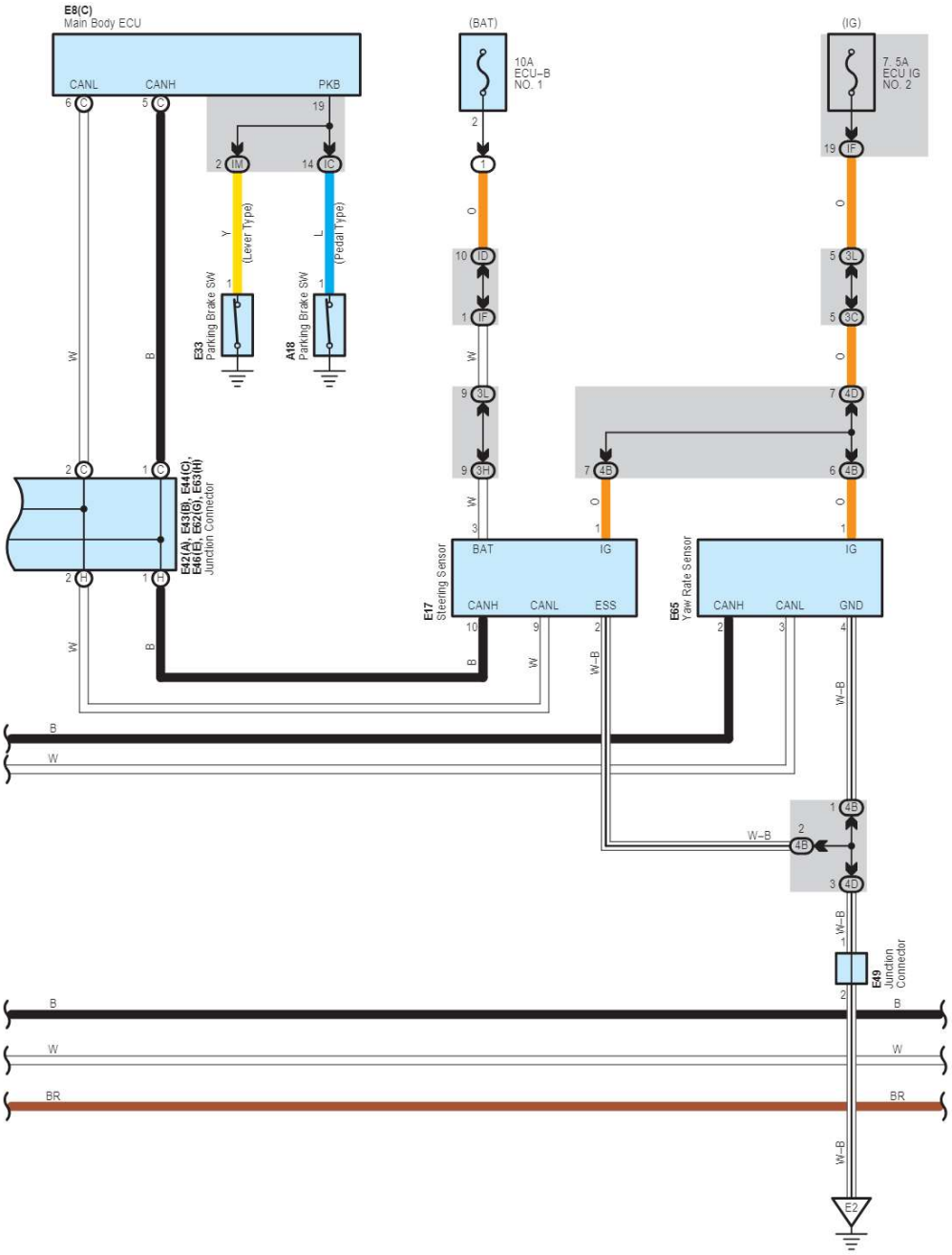

(BAT)
10A
STOP
8 IC
B
2
A19
Stop Lamp SW
1
W
9 AE2
L
L
7 IL
13 IC
P
30
STP1
B
6
CANH
W
14
CANL
TS
12
E10
Data Link
Connector 3
O
4 3H
4 3E
O
4 AE6
O
39
TS
A60
Skid Control ECU with Actuator
RR+
RR−
SP1
CANL
CANH
29
8
33
14
35
B
W
BR
W
B
1 OA1
10 OA1
B
W
1 TO1
2 TO1
W
B
2
1
f1
Speed Sensor (Rear RH)
B
W
B
W
B
4 B
10 B
2 A
8 A
A40(A), E41(B)
Junction Connector
B
W
BR

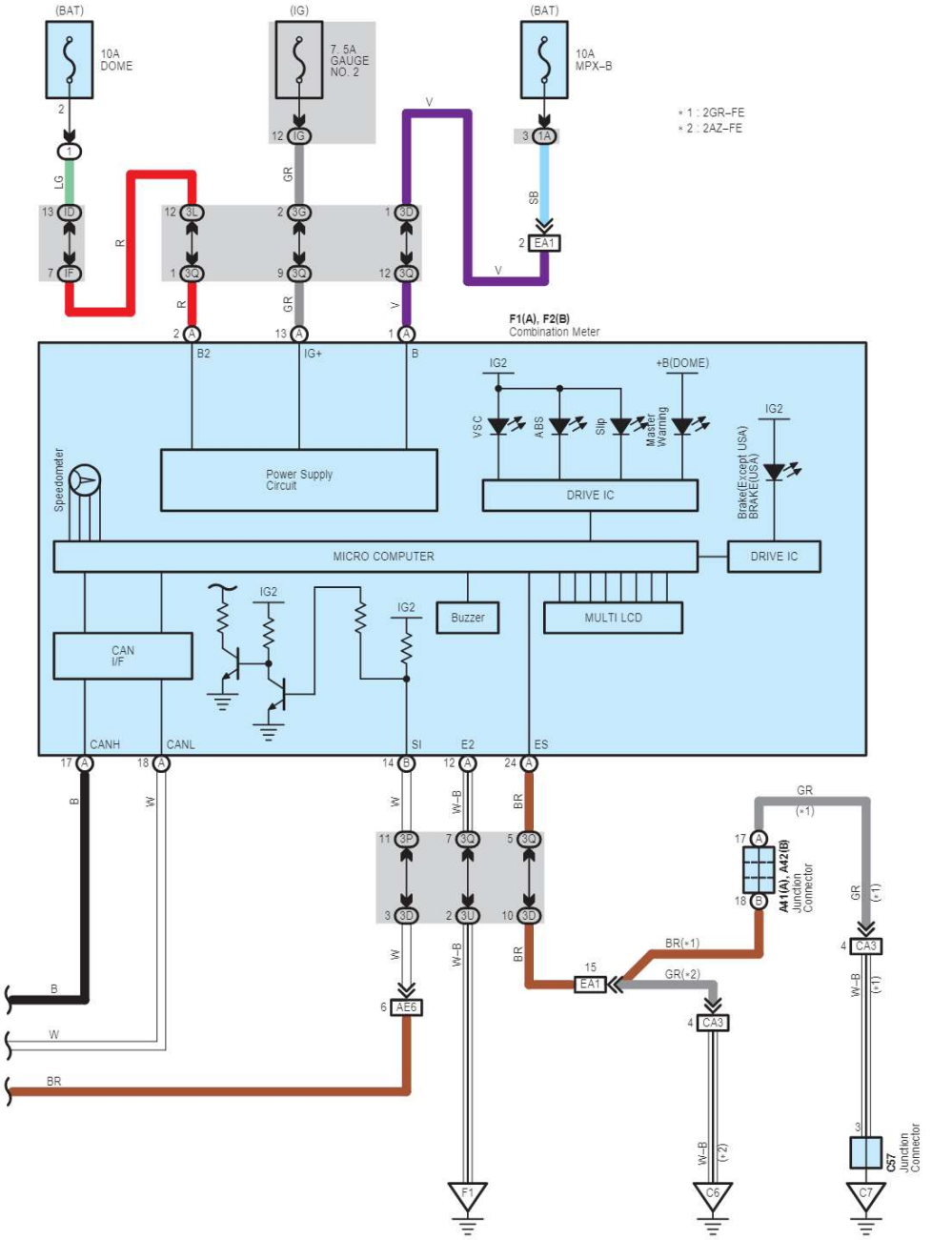

B
W
B
W
B
W
W(+2)
B(+2)
A40(A), E41(B)
Junction Connector
1
7
W(+2)
B(+2)
* 1 : 2GR-FE
* 2 : 2AZ-FE
B (+1)
W (+1)
A55(A), C55(B)
Engine Control Module
41
49
CANH
CANL
NE+
NE-
VTA1
VCTA
VTA2
ETA
M+
M-
GE01
110
111
98
96
99
97
19
18
41
(Shielded)
G (+1)
R (+1)
G-R (+1)
C50
Crankshaft
Position Sensor
2
1
Y (+1)
B (+1)
W-L (+1)
P (+1)
(Shielded)
G (+1)
R (+1)
6
5
4
3
2
1
VTA
VC
VTA2
E2
M+
M-
C5
Throttle Body Assembly
BR (+1)
BR
BR
C5


B
W
B
W
W(+2)
B(+2)
B
W
B
W
W(+2)
B(+2)
(IG)
(IG)
10A GAUGE NO. 1
7. 5A ECU IG NO. 2
C1(A) Park/Neutral Position SW
PL
RL
NL
DL
RB
A55(A), C55(B) Engine Control Module
SFTU
SFTD
S
E31 Transmission Control SW
E
IG
A41(A), A42(B) Junction Connector
C57 Junction Connector
C7
R (+1)
B–W (+1)
P (+1)
L–B (+1)
G (+1)
O (+1)
BR (+1)
GR (+1)
W–B (+1)
Y (+1)
L (+1)
BR
BR


B
W
B
W
W(+2)
B(+2)
B
W
B
W
R(+2)
L(+2)
(IG)
10A
GAUGE
NO. 1
C1(B)
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
IH
AE6
CA2
EA1
CA17
A24(A), C24(B)
Engine Control Module
CANH
CANL
P
R
N
D
3
2
NE+
NE–
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
(Shielded)
C20
Crankshaft
Position Sensor
CA3
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
BR
BR
C4


B
W
B
W
R(*2)
L(*2)
19 AE6
16 AE5
15 CA2
O (*2)
Y (*2)
Y (*2)
O (*2)
L (*2)
R (*2)
6
2
1
5
ATL
AT4
NSSD
NSSL
E31
Transmission Control SW
G (*2)
BR (*2)
25 A
4
74 B
L
A24(A), C24(B)
Engine Control Module
W
B
W
B
E42(A), E43(B), E44(C),
E46(E), E62(G), E63(H)
Junction Connector
2 A
1 A
2 G
1 G
2 B
1 B
2 E
1 E
W
B
W
B
14 FE3
13 FE3
W
B
B
W
B
W
BR
BR
* 2 : 2AZ-FE


E8(C)
Main Body ECU
CANL
CANH
PKB
(BAT)
10A
ECU-B
NO. 1
(IG)
7. 5A
ECU IG
NO. 2
(Lever Type)
(Pedal Type)
E33
Parking Brake SW
A18
Parking Brake SW
E42(A), E43(B), E44(C),
E46(E), E62(G), E63(H)
Junction Connector
E17
Steering Sensor
BAT
IG
CANH
CANL
ESS
E65
Yaw Rate Sensor
GND
E49
Junction
Connector
E2


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
F1(A), F2(B)
Combination Meter
B2
IG+
B
IG2
+B(DOME)
VSC
ABS
Slip
Master
Warning
Brake(Except USA)
BRAKE(USA)
Speedometer
Power Supply
Circuit
DRIVE IC
MICRO COMPUTER
DRIVE IC
CAN
I/F
Buzzer
MULTI LCD
CANH
CANL
SI
E2
ES
A41(A), A42(B)
Junction
Connector
CS7
Junction
Connector
BR(*1)
GR(*2)
W–B
(*2)
W–B
(*1)
GR
(*1)

System Outline

1. ABS Operation

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

2. Traction Control Operation

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

3. VSC Operation

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

4. Fail Safe Function

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A14	48 (2GR–FE)	C1 B	54 (2AZ–FE)	E41 B	57
	52 (2AZ–FE)	C5	50 (2GR–FE)	E42 A	57
A18	59		54 (2AZ–FE)	E43 B	57
A19	59	C20	55 (2AZ–FE)	E44 C	57
A24 A	52 (2AZ–FE)	C24 B	55 (2AZ–FE)	E46 E	57
A35	48 (2GR–FE)	C50	51 (2GR–FE)	E49	57
	52 (2AZ–FE)	C55 B	51 (2GR–FE)	E62 G	57
A40 A	59	C57	51 (2GR–FE)	E63 H	57
A41 A	59	E8 C	56	E65	57
A42 B	59	E10	56	F1 A	58
A55 A	49 (2GR–FE)	E13	56	F2 B	58
A58 A	59	E17	56	f1	61
A60	49 (2GR–FE)	E31	56	g1	61
	53 (2AZ–FE)	E33	56		
C1 A	50 (2GR–FE)	E40 B	57		

⬭ : 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)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4B		
4C		
4D		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
IL	30	
IM		

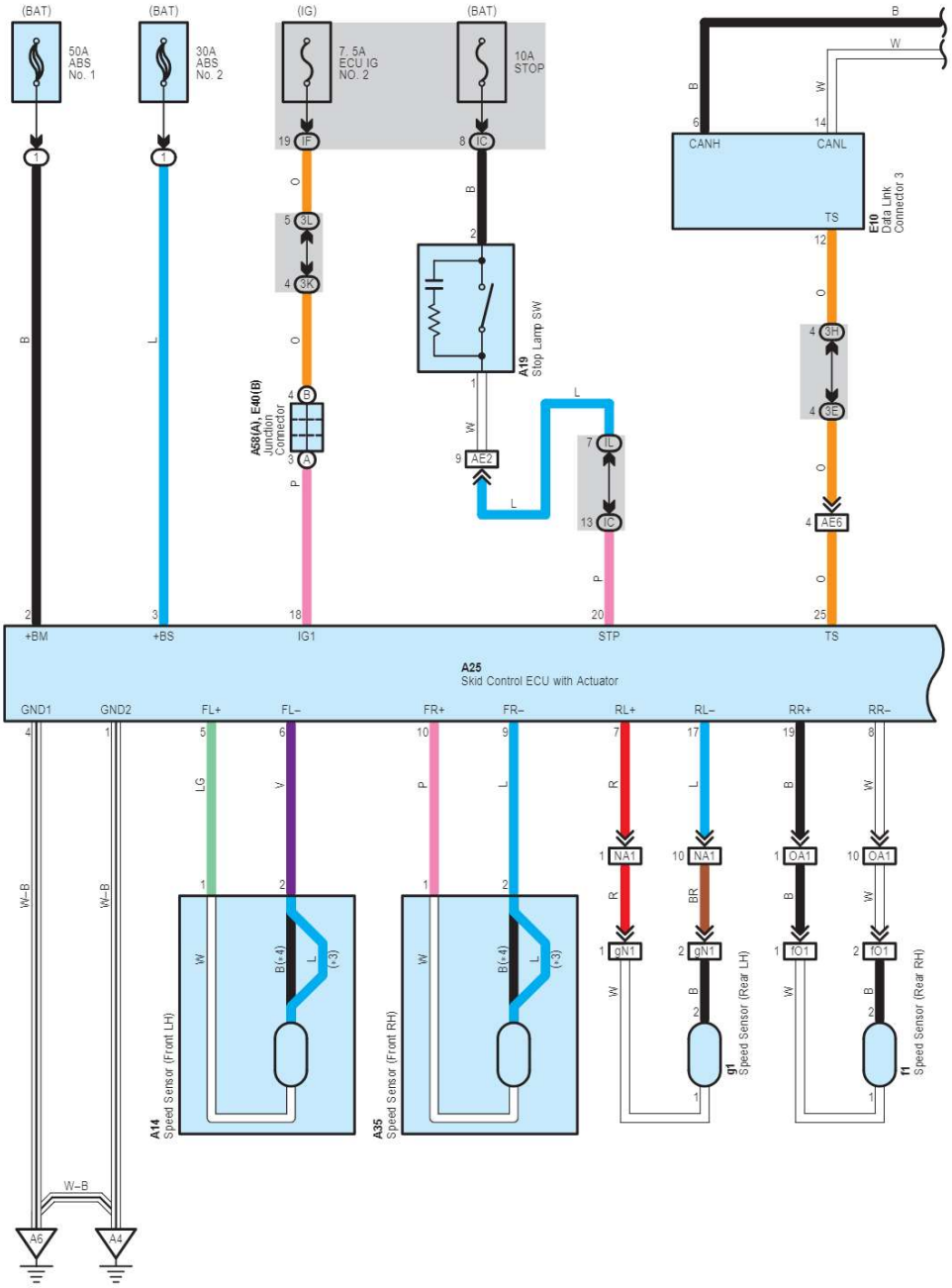
: **Connector Joining Wire Harness and Wire Harness**

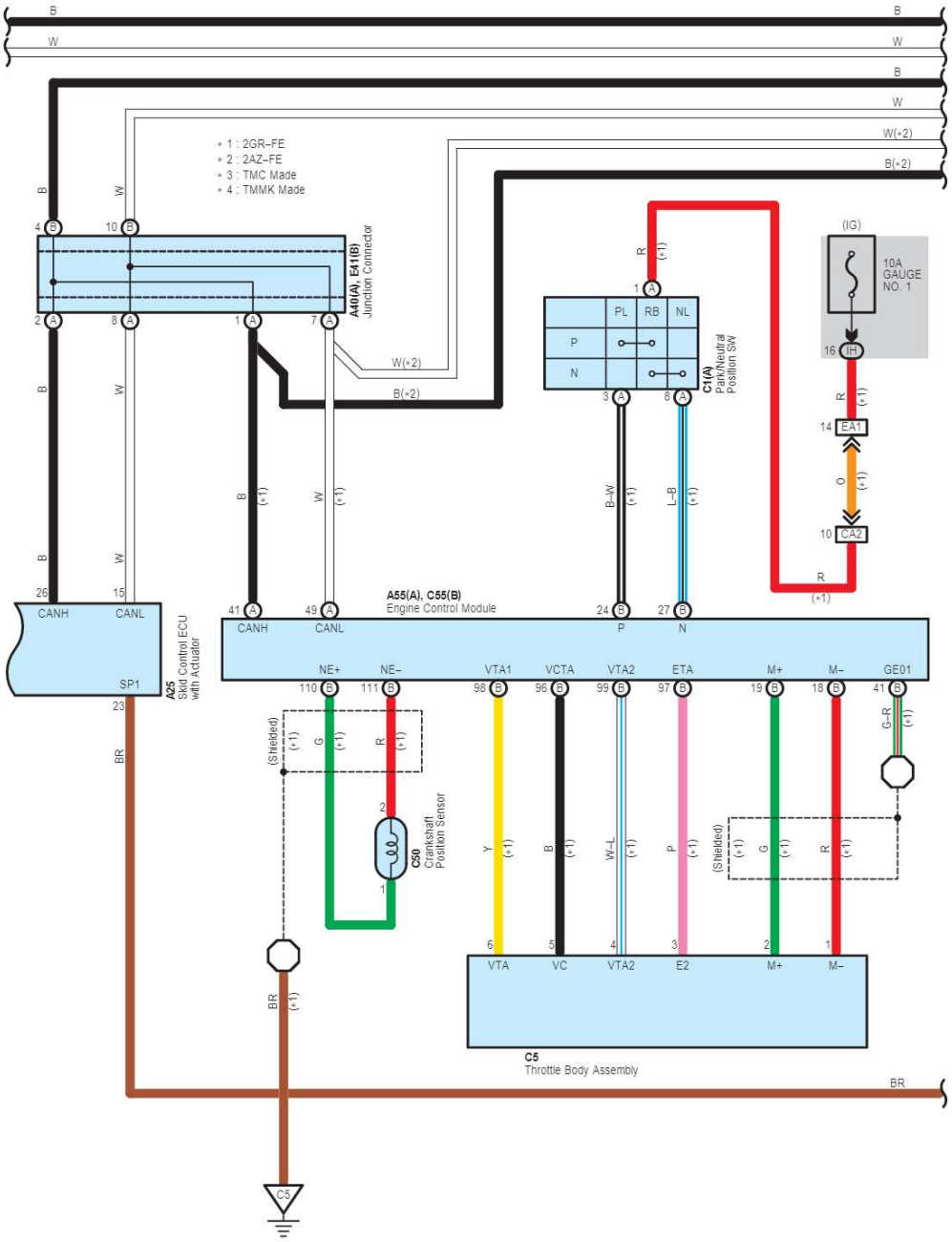
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)
OA1	66	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
fO1	67	Skid Control Sensor Wire and Floor No.2 Wire (Quarter Wheel House Panel LH)
gN1	67	Skid Control Sensor Wire and Floor Wire (Quarter Wheel House Panel RH)

: **Ground Points**

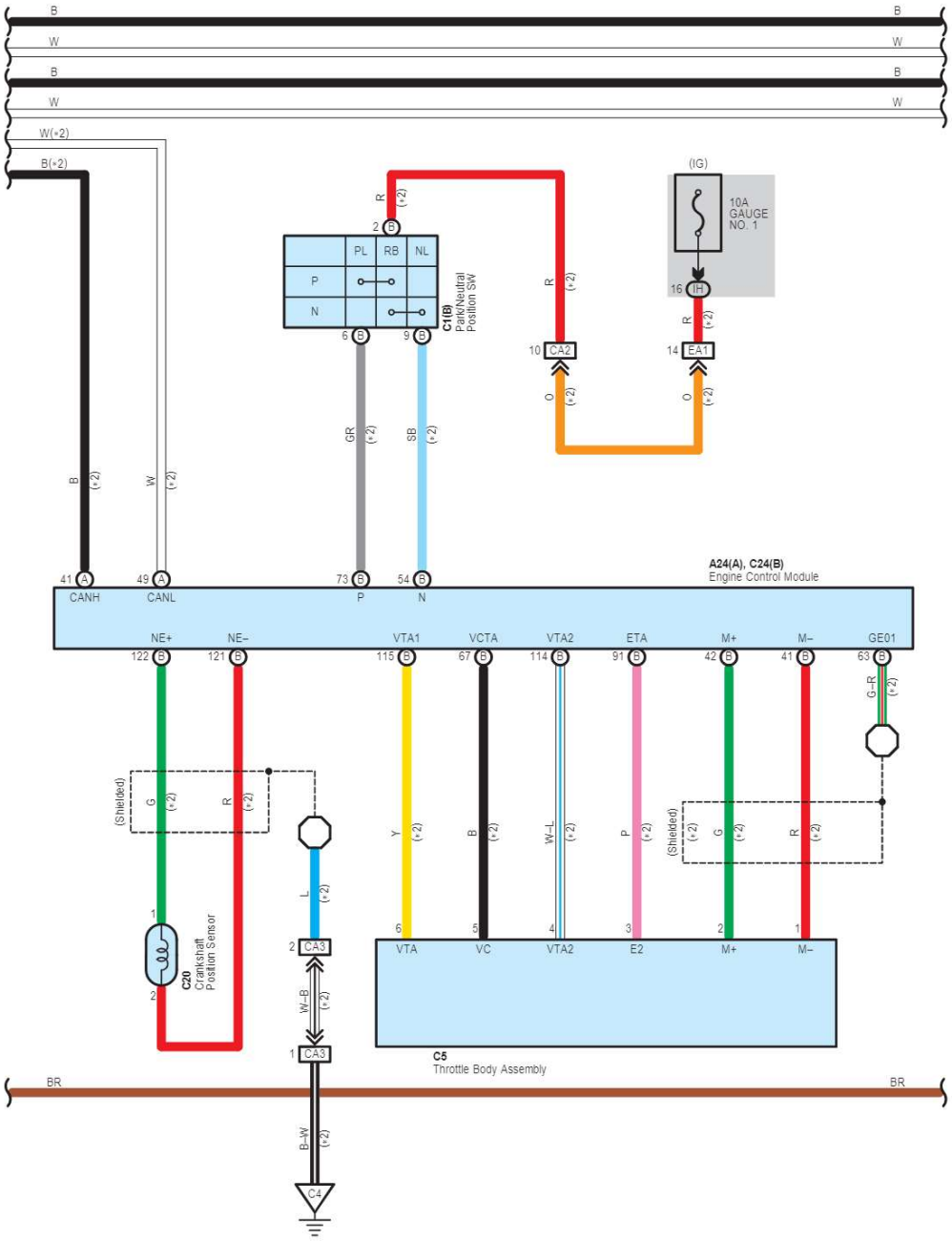
Code	See Page	Ground Points Location
A4	64 (2GR–FE)	Near the Skid Control ECU with Actuator
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

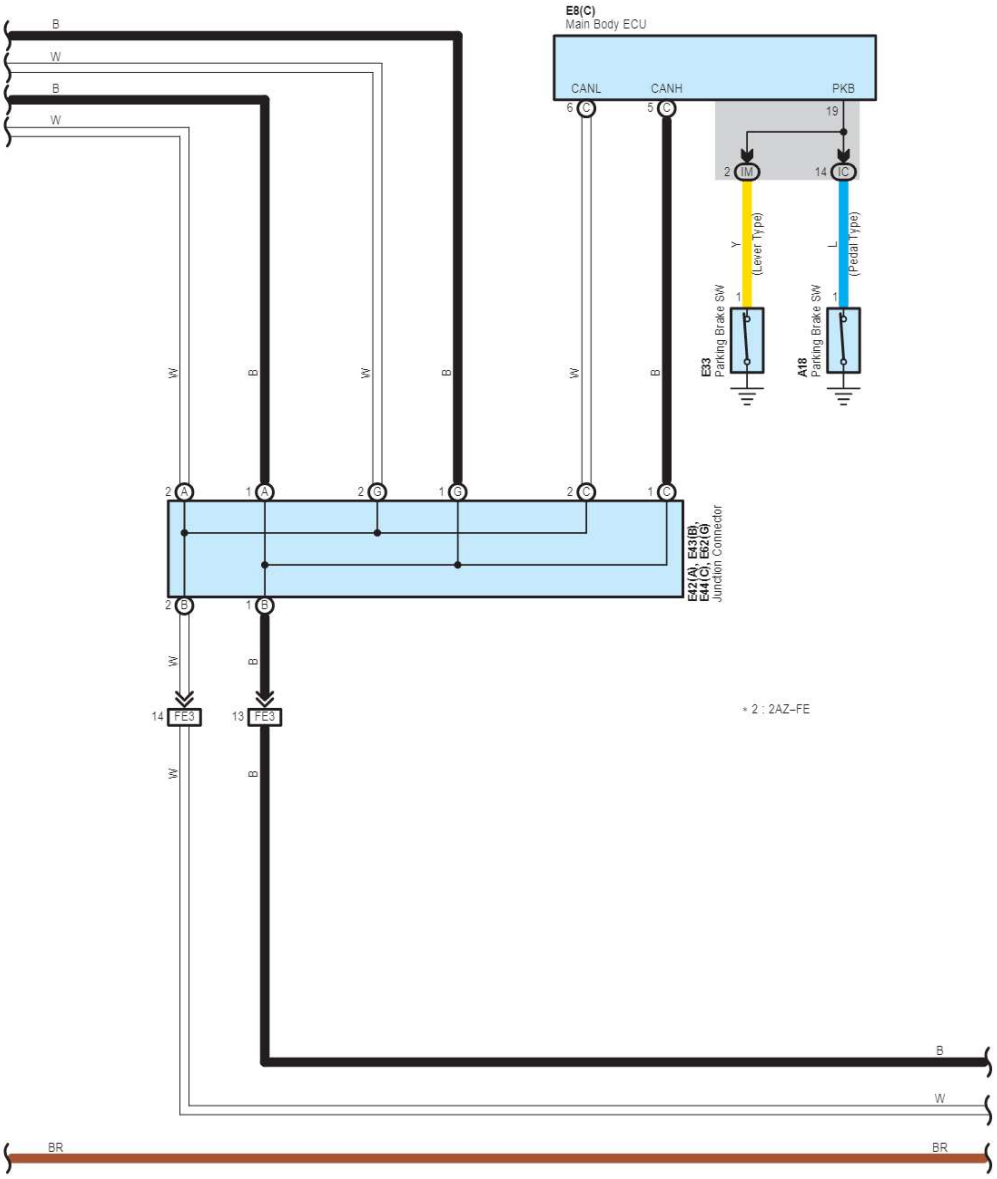
ABS without VSC



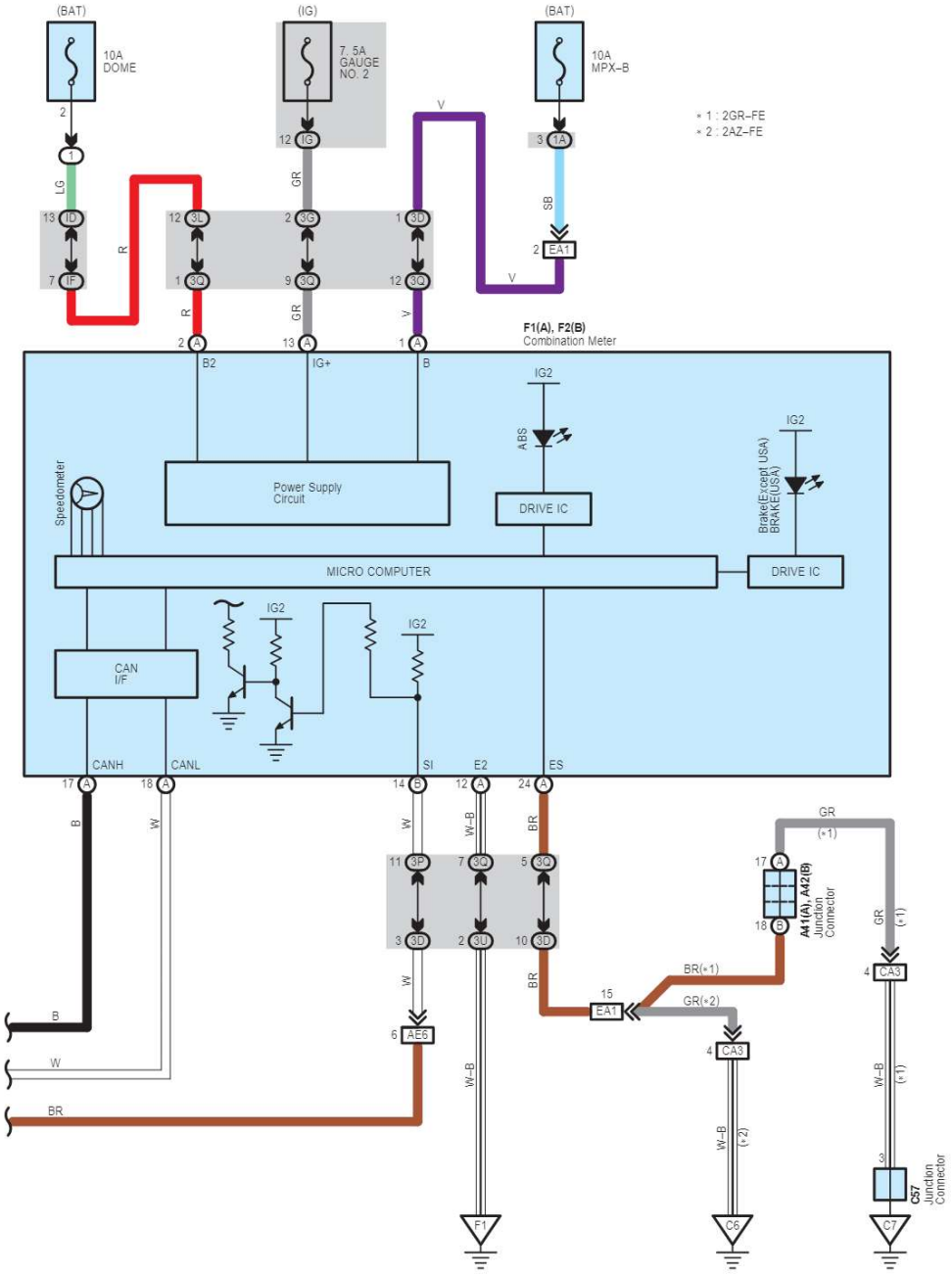

* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : TMC Made
* 4 : TMMK Made
A40(A), E41(B)
Junction Connector
C1(A)
Park/Neutral Position SW
PL
RB
NL
P
N
(IG)
10A GAUGE NO. 1
EA1
CA2
A55(A), C55(B)
Engine Control Module
CANH
CANL
NE+
NE–
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A25
Skid Control ECU with Actuator
SP1
C50
Crankshaft Position Sensor
(Shielded)
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–

ABS without VSC




E8(C)
Main Body ECU
CANL
CANH
PKB
6 C
5 C
19
2 IM
14 IC
Y
(Lever Type)
L
(Pedal Type)
1
1
E33
Parking Brake SW
A18
Parking Brake SW
B
W
B
W
W
B
W
B
W
B
2 A
1 A
2 G
1 G
2 C
1 C
E42(A), E43(B),
E44(C), E52(G)
Junction Connector
2 B
1 B
W
B
14 FE3
13 FE3
* 2 : 2AZ-FE
W
B
B
W
BR
BR

ABS without VSC



System Outline

* ABS system

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.

* Front and rear braking force distribution system

Using the hydraulic controlling device, this system distributes the braking force to the front and rear wheel in appropriately according to the running condition of the vehicle.

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
A14		48 (2GR–FE)	A55	A	49 (2GR–FE)	E10		56
		52 (2AZ–FE)	A58	A	59	E33		56
A18		59	C1	A	50 (2GR–FE)	E40	B	57
A19		59		B	54 (2AZ–FE)	E41	B	57
A24	A	52 (2AZ–FE)	C5		50 (2GR–FE)	E42	A	57
A25		48 (2GR–FE)			54 (2AZ–FE)	E43	B	57
		52 (2AZ–FE)	C20		55 (2AZ–FE)	E44	C	57
A35		48 (2GR–FE)	C24	B	55 (2AZ–FE)	E62	G	57
		52 (2AZ–FE)	C50		51 (2GR–FE)	F1	A	58
A40	A	59	C55	B	51 (2GR–FE)	F2	B	58
A41	A	59	C57		51 (2GR–FE)	f1		61
A42	B	59	E8	C	56	g1		61

⬭ : 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**

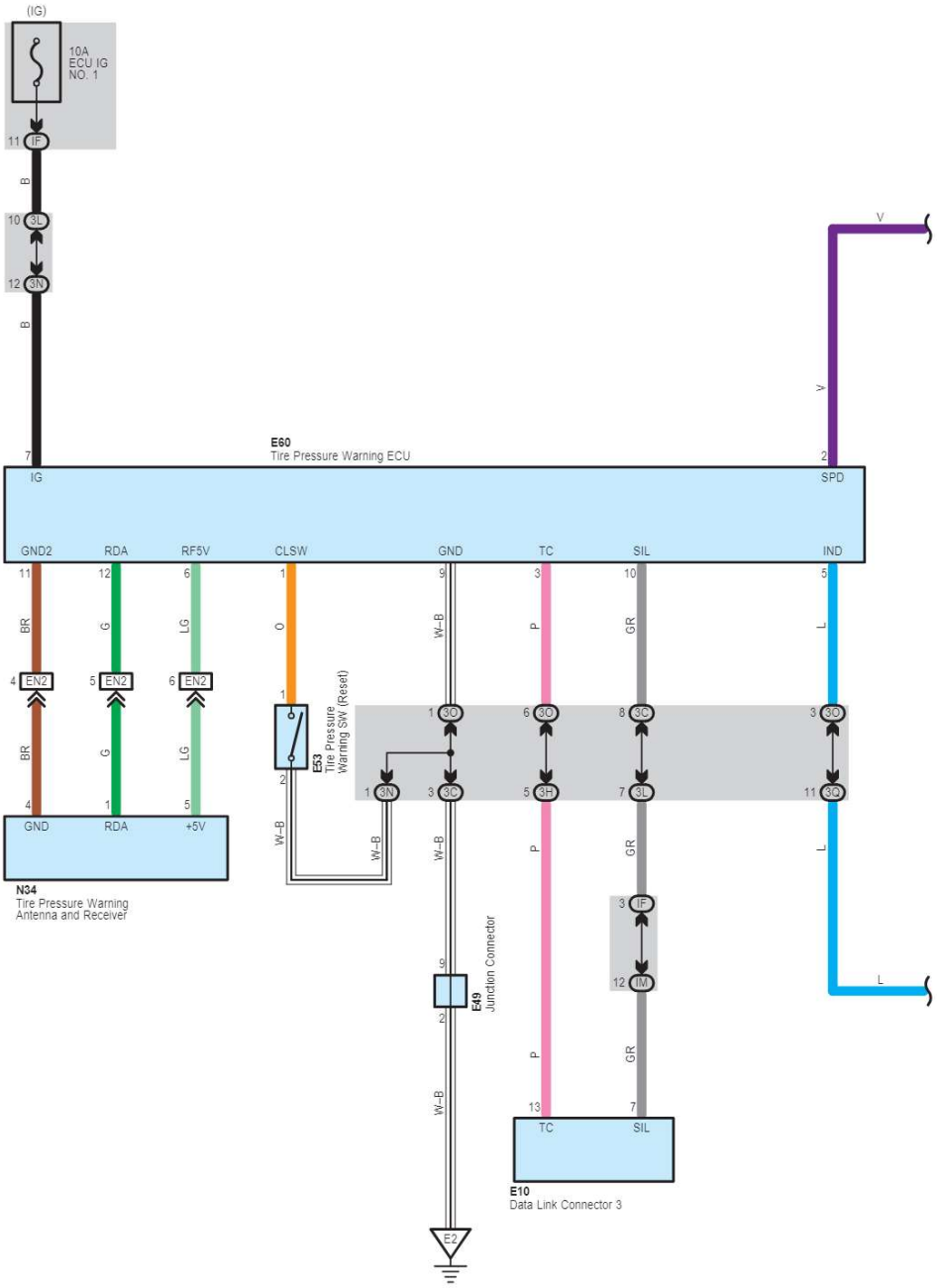
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3E		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
IL	30	
IM		

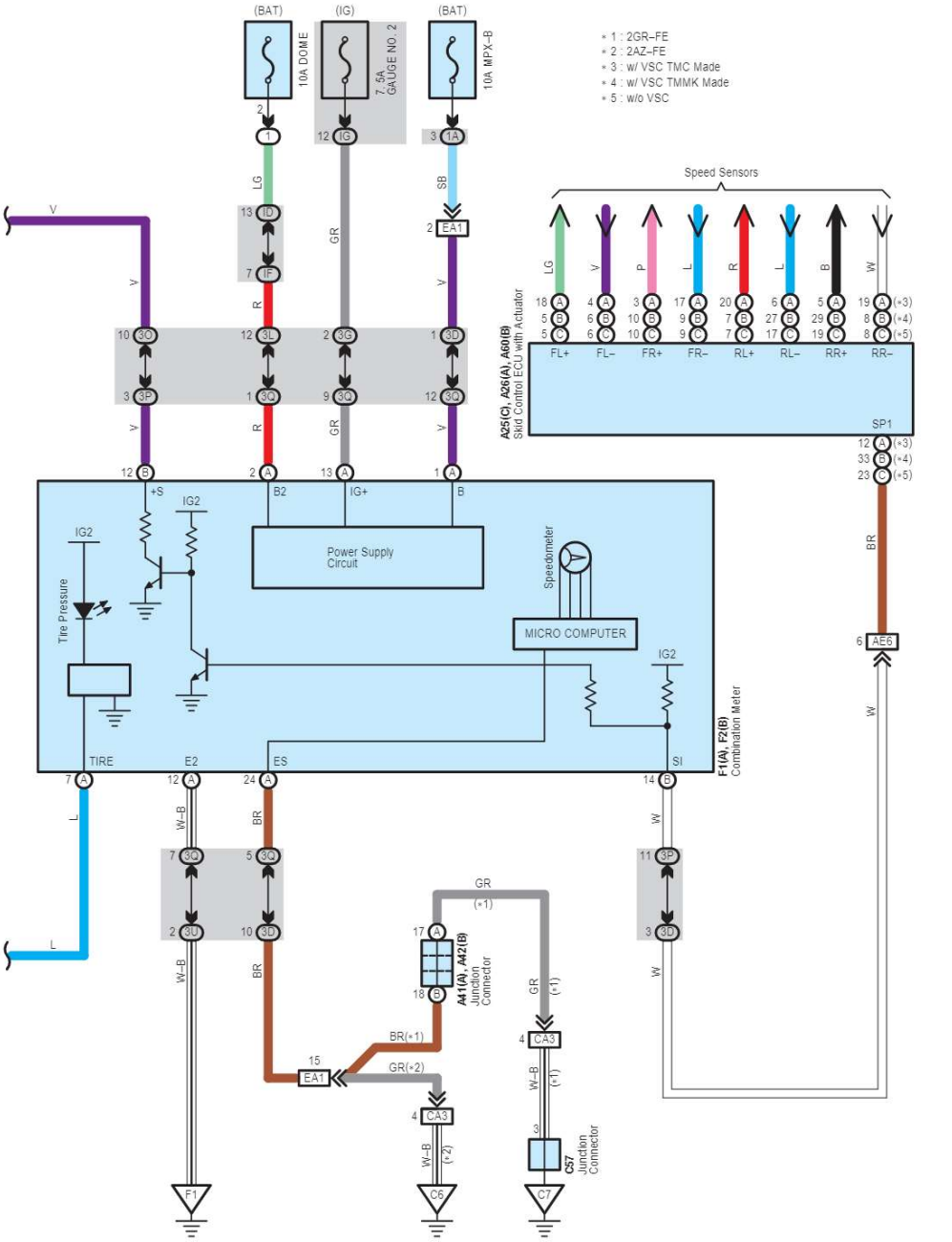
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)
OA1	66	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
fO1	67	Skid Control Sensor Wire and Floor No.2 Wire (Quarter Wheel House Panel LH)
gN1	67	Skid Control Sensor Wire and Floor Wire (Quarter Wheel House Panel RH)

: **Ground Points**

Code	See Page	Ground Points Location
A4	64 (2GR–FE)	Near the Skid Control ECU with Actuator
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left


(IG)
10A
ECU IG
NO. 1
11 IF
B
10 3L
12 3N
B
V
V
7
IG
E60
Tire Pressure Warning ECU
2
SPD
GND2
RDA
RF5V
CLSW
GND
TC
SIL
IND
11
12
6
1
9
3
10
5
BR
G
LG
O
W-B
P
GR
L
4 EN2
5 EN2
6 EN2
1
3Q
6 3Q
8 3C
3 3Q
E53
Tire Pressure
Warning SW (Reset)
2
1 3N
3 3C
5 3H
7 3L
11 3Q
BR
G
LG
W-B
W-B
W-B
P
GR
L
4
1
5
GND
RDA
+5V
N34
Tire Pressure Warning
Antenna and Receiver
3 IF
12 IM
L
9
E49
Junction Connector
2
P
GR
W-B
13
7
TC
SIL
E10
Data Link Connector 3
E2


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
* 1 : 2GR-FE
* 2 : 2AZ-FE
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
SP1
+S
IG2
B2
IG+
B
Power Supply Circuit
Speedometer
MICRO COMPUTER
Tire Pressure
TIRE
E2
ES
SI
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction Connector
BR(*1)
GR(*2)
GR (*1)
W-B (*1)
W-B (*2)
C57
Junction Connector
F1
C6
C7

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A25	C	48 (2GR–FE)	A60	B	49 (2GR–FE)	E60		57
		52 (2AZ–FE)			53 (2AZ–FE)	F1	A	58
A26	A	48 (2GR–FE)	C57		51 (2GR–FE)	F2	B	58
		52 (2AZ–FE)	E10		56	N34		60
A41	A	59	E49		57			
A42	B	59	E53		57			

⬭ : **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)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3H		
3L		
3N		
3O		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IM	30	

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

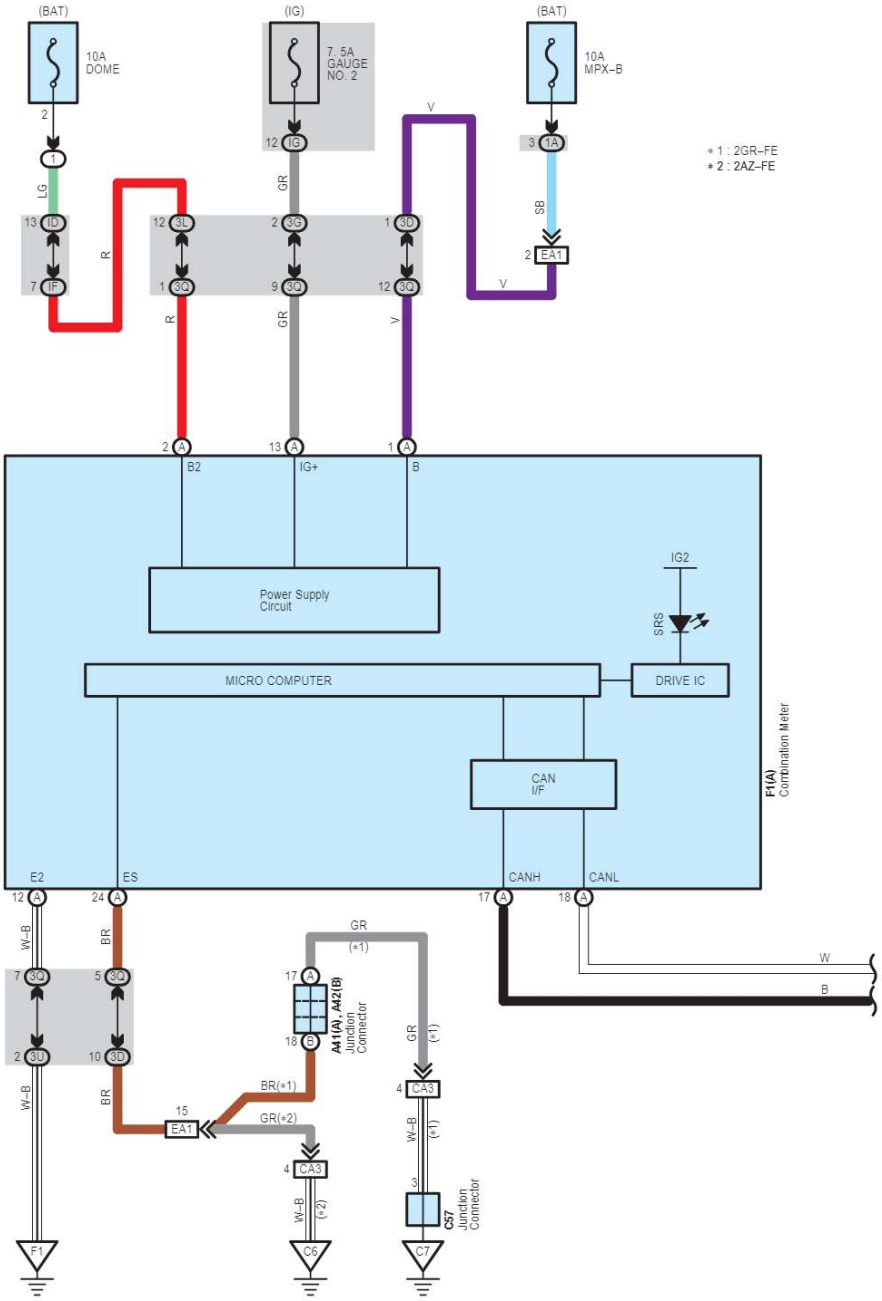
▽ : **Ground Points**

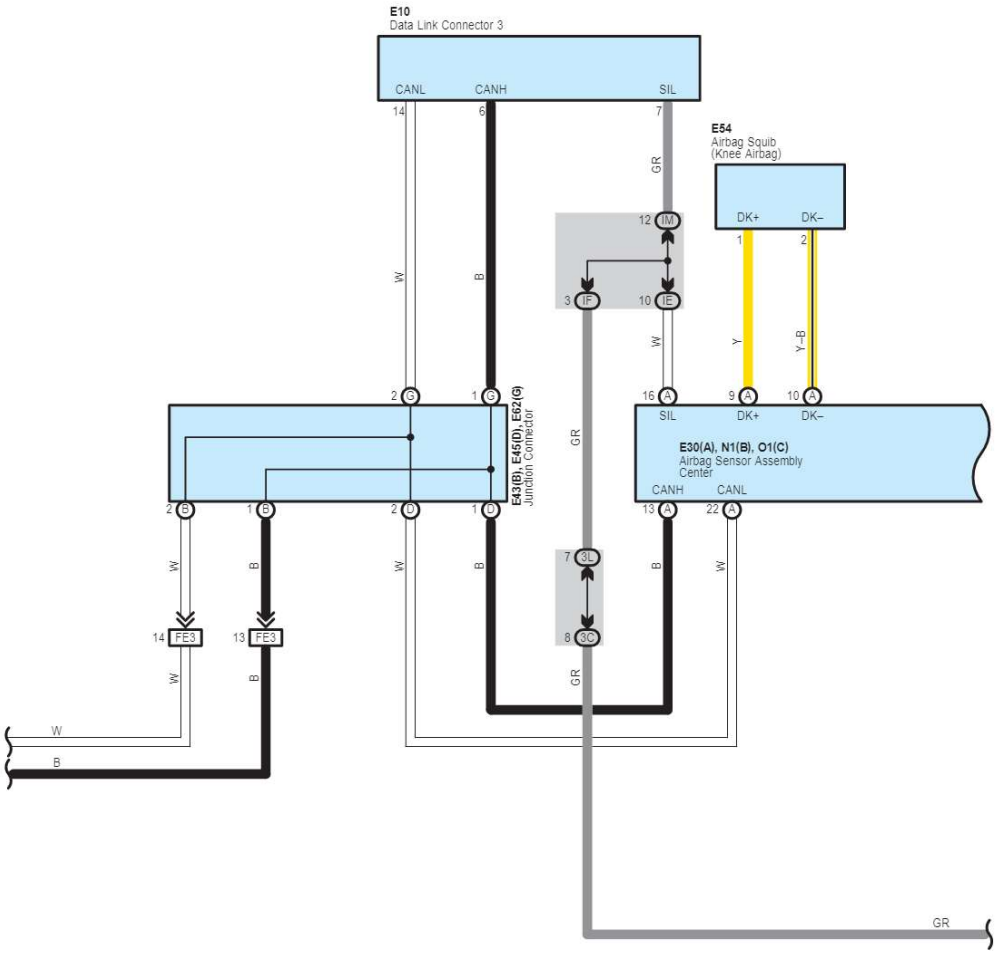
Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left

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.

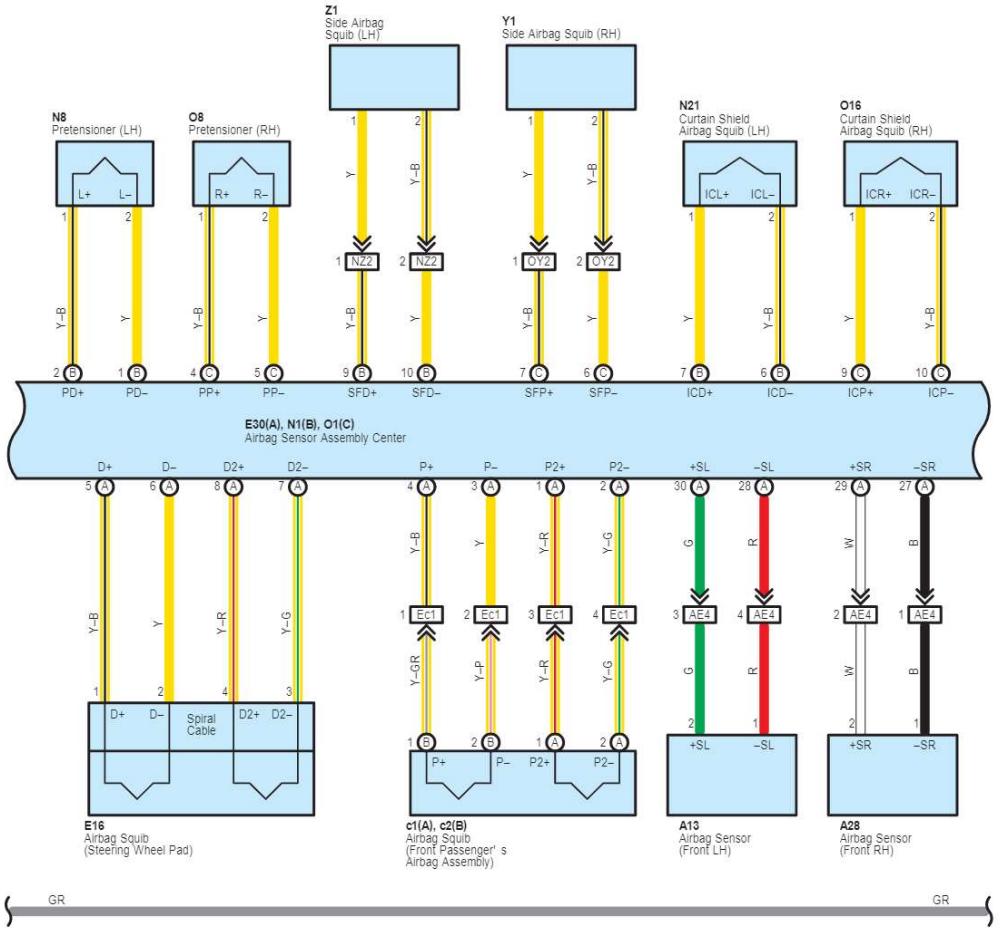
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is turned to the "LOCK" position (Ignition SW type) or the power SW is pushed to the "OFF" position (Power SW type) 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.

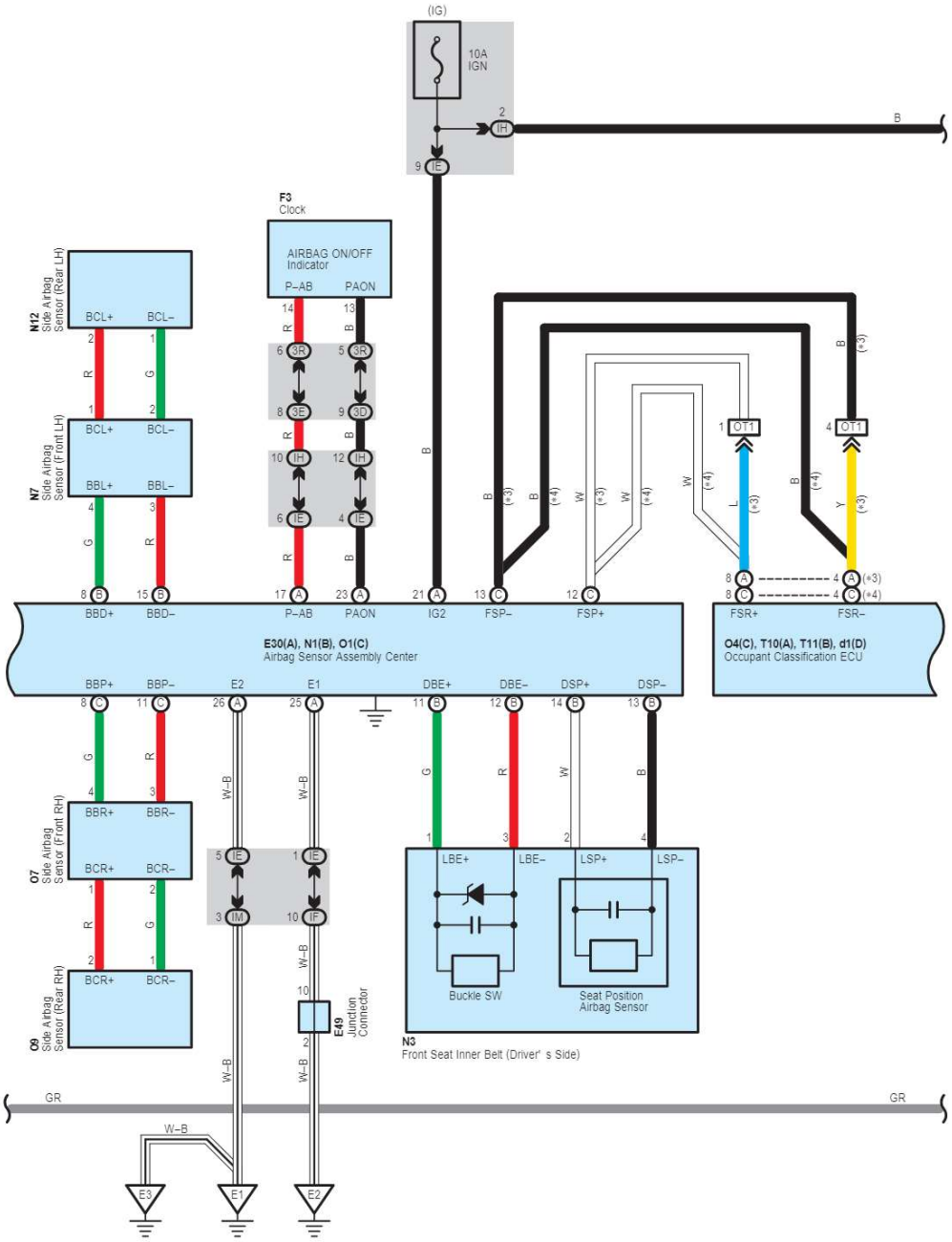
* Steering wheel pad
* Front passenger airbag assembly
* Side airbag assembly
* Curtain shield airbag assembly
* Knee airbag assembly
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly
* Side airbag sensor assembly
* Rear airbag sensor assembly

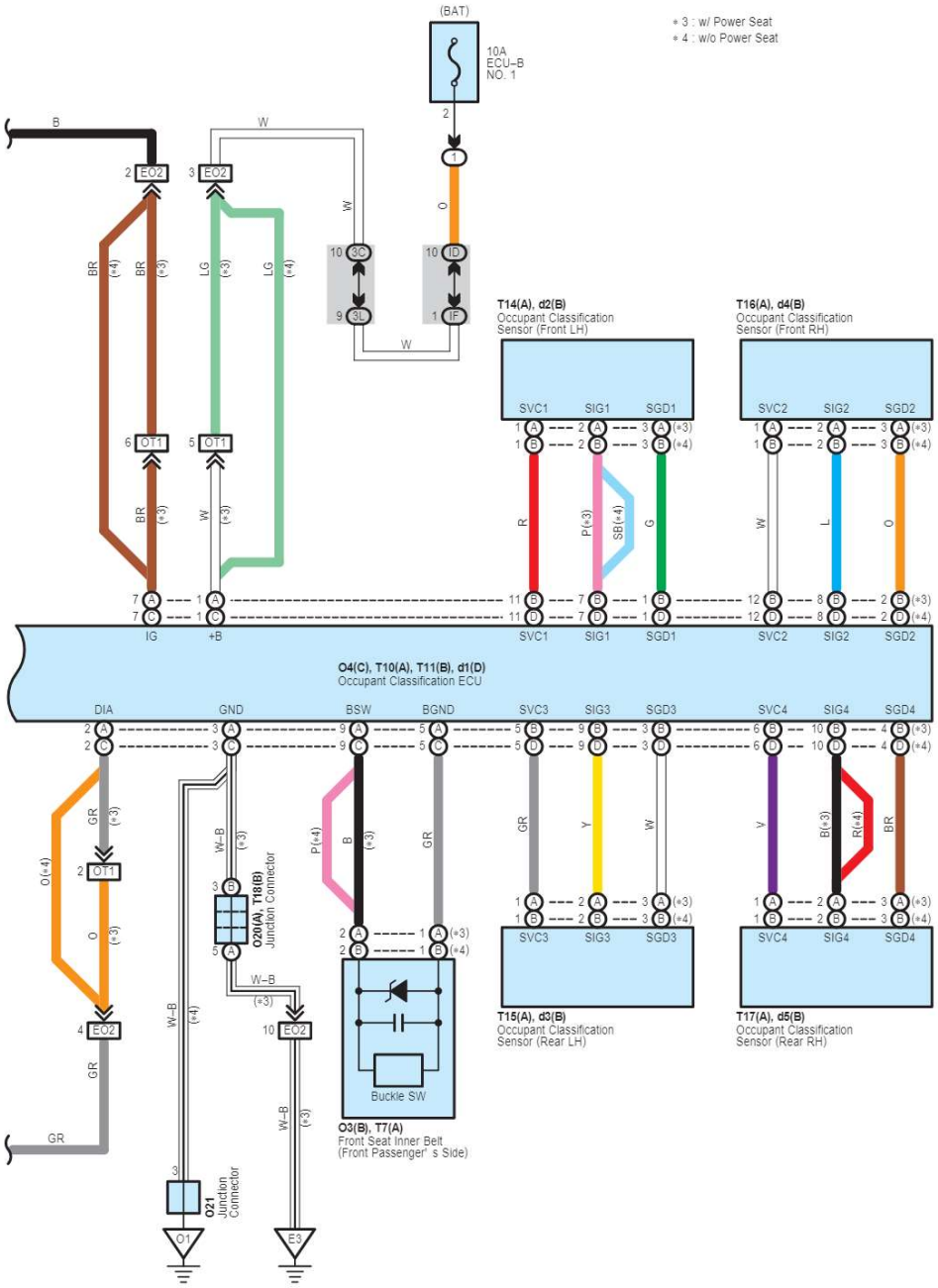

(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
LG
R
GR
V
SB
B2
IG+
B
Power Supply
Circuit
IG2
SRS
MICRO COMPUTER
DRIVE IC
CAN
I/F
F1(A)
Combination Meter
E2
ES
CANH
CANL
W
B
W–B
BR
A41(A), A42(B)
Junction
Connector
BR(*1)
GR(*2)
GR
(*1)
W–B
(*1)
W–B
(*2)
CS7
Junction
Connector
F1
C6
C7


E10
Data Link Connector 3
CANL
CANH
SIL
14
6
7
GR
E54
Airbag Squib
(Knee Airbag)
DK+
DK–
12 IM
1
2
3 IF
10 IE
W
B
Y
Y–B
2 G
1 G
16 A
9 A
10 A
SIL
DK+
DK–
E43(B), E45(D), E62(G)
Junction Connector
GR
E30(A), N1(B), O1(C)
Airbag Sensor Assembly
Center
CANH
CANL
2 B
1 B
2 D
1 D
13 A
22 A
7 3L
8 3C
W
B
W
B
14 FE3
13 FE3
W
B
GR
W
B
GR

* 3 : w/ Power Seat
* 4 : w/o Power Seat




(IG)
10A
IGN
2
IH
9
IE
B
F3
Clock
AIRBAG ON/OFF
Indicator
P-AB
PAON
N12
Side Airbag
Sensor (Rear LH)
BCL+
BCL-
N7
Side Airbag
Sensor (Front LH)
BBL+
BBL-
BBD+
BBD-
P-AB
PAON
IG2
FSP-
FSP+
OT1
FSR+
FSR-
E30(A), N1(B), O1(C)
Airbag Sensor Assembly Center
O4(C), T10(A), T11(B), d1(D)
Occupant Classification ECU
BBP+
BBP-
E2
E1
DBE+
DBE-
DSP+
DSP-
O7
Side Airbag
Sensor (Front RH)
BBR+
BBR-
BCR+
BCR-
O9
Side Airbag
Sensor (Rear RH)
E49
Junction
Connector
LBE+
LBE-
LSP+
LSP-
Buckle SW
Seat Position
Airbag Sensor
N3
Front Seat Inner Belt (Driver' s Side)
GR
W-B
E3
E1
E2


(BAT)
10A
ECU-B
NO. 1
* 3 : w/ Power Seat
* 4 : w/o Power Seat
T14(A), d2(B)
Occupant Classification
Sensor (Front LH)
T16(A), d4(B)
Occupant Classification
Sensor (Front RH)
O4(C), T10(A), T11(B), d1(D)
Occupant Classification ECU
T15(A), d3(B)
Occupant Classification
Sensor (Rear LH)
T17(A), d5(B)
Occupant Classification
Sensor (Rear RH)
O20(A), T18(B)
Junction Connector
O21
Junction
Connector
O3(B), T7(A)
Front Seat Inner Belt
(Front Passenger' s Side)
Buckle SW
SVC1
SIG1
SGD1
SVC2
SIG2
SGD2
SVC3
SIG3
SGD3
SVC4
SIG4
SGD4
DIA
GND
BSW
BGND
IG
+B

System Outline

* The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
  – Driver Airbag
  – Front Passenger Airbag
  – Knee Airbag
  – Seat Belt Pretensioner
* The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
  – Side Airbags
  – Curtain Shield Airbags
* The dual–stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat) and whether or not the seat belt is fastened(driver seat) and infomation from the Front Passenger Occupant Classification System.
* The front passenger occupant classification system judges whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, according to the load applied to the front passenger seat and whether the seat belt is buckled. Based on the results, it restricts the deployment of the front passenger airbag, front passenger side airbag, and front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the AIRBAG ON/OFF indicator lights.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A13	48 (2GR–FE)	N3	62 (*1)	T14 A	62 (*1)
	52 (2AZ–FE)		63 (*2)	T15 A	62 (*1)
A28	48 (2GR–FE)	N7	60	T16 A	62 (*1)
	52 (2AZ–FE)	N8	60	T17 A	62 (*1)
A41 A	59	N12	60	T18 B	62 (*1)
A42 B	59	N21	60	Y1	62 (*1)
C57	51 (2GR–FE)	O1 C	59		63 (*2)
E10	56	O3 B	63 (*2)	Z1	62 (*1)
E16	56	O4 C	63 (*2)		63 (*2)
E30 A	56	O7	60	c1 A	59
E43 B	57	O8	60	c2 B	59
E45 D	57	O9	60	d1 D	63 (*2)
E49	57	O16	60	d2 B	63 (*2)
E54	57	O20 A	62 (*1)	d3 B	63 (*2)
E62 G	57	O21	60	d4 B	63 (*2)
F1 A	58	T7 A	62 (*1)	d5 B	63 (*2)
F3	58	T10 A	62 (*1)		
N1 B	59	T11 B	62 (*1)		

▭ : Relay Blocks

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

* 1 : w/ Power Seat * 2 : 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)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3G		
3L		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3R		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IG	31	
IH		
IM	30	

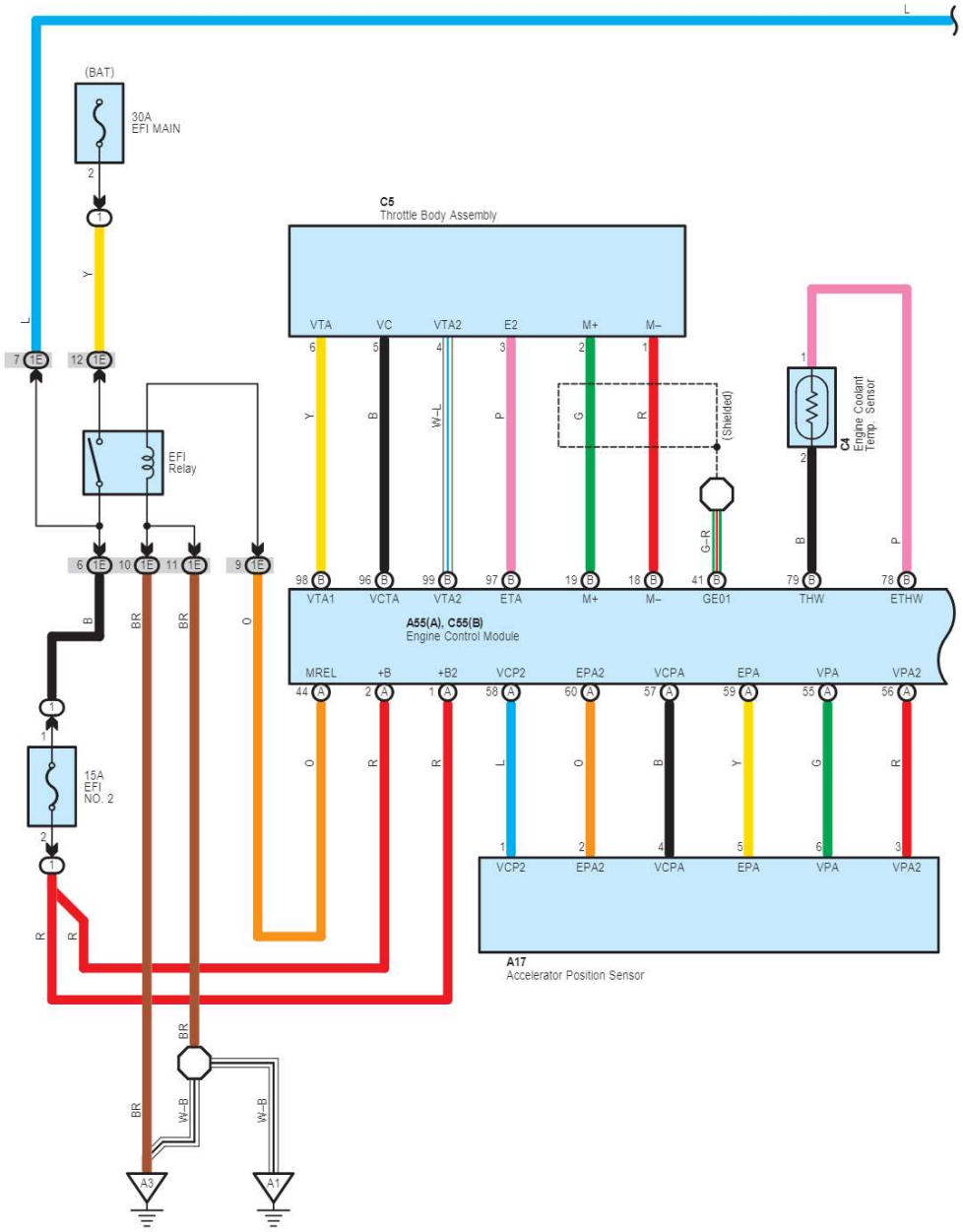
: **Connector Joining Wire Harness and Wire Harness**

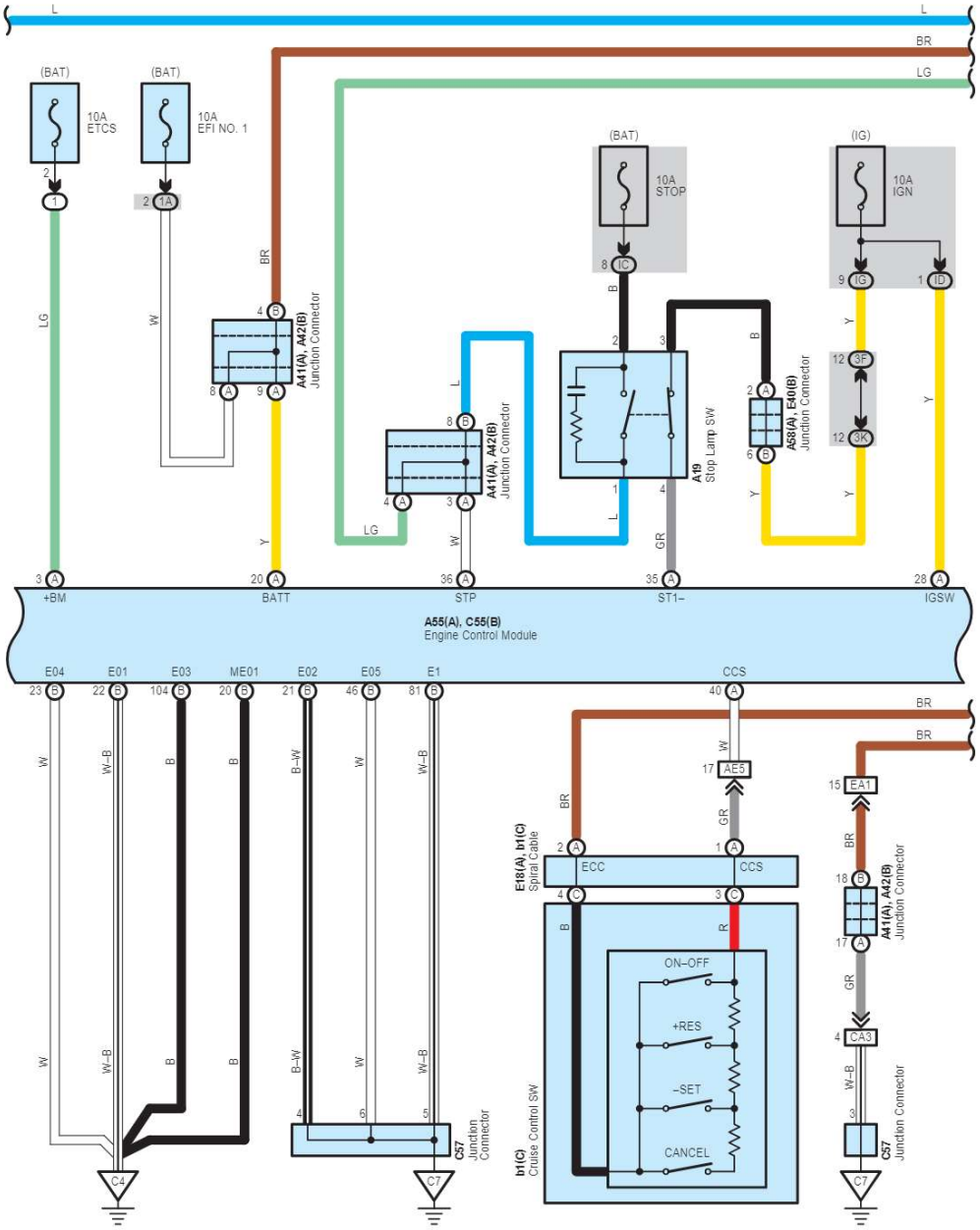
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
Ec1	66	Instrument Panel Wire and Instrument Panel Wire Assembly (Behind The Glove Box)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NZ2	68 (*1)	Floor Wire and Front Seat Airbag Assembly LH (Under the Driver's Seat)
	69 (*2)	
OT1	68 (*1)	Floor No.2 Wire and Front Seat RH Wire (Under the Front Passenger's Seat)
OY2	68 (*1)	Floor No.2 Wire and Front Seat Airbag Assembly RH (Under the Front Passenger's Seat)
	69 (*2)	

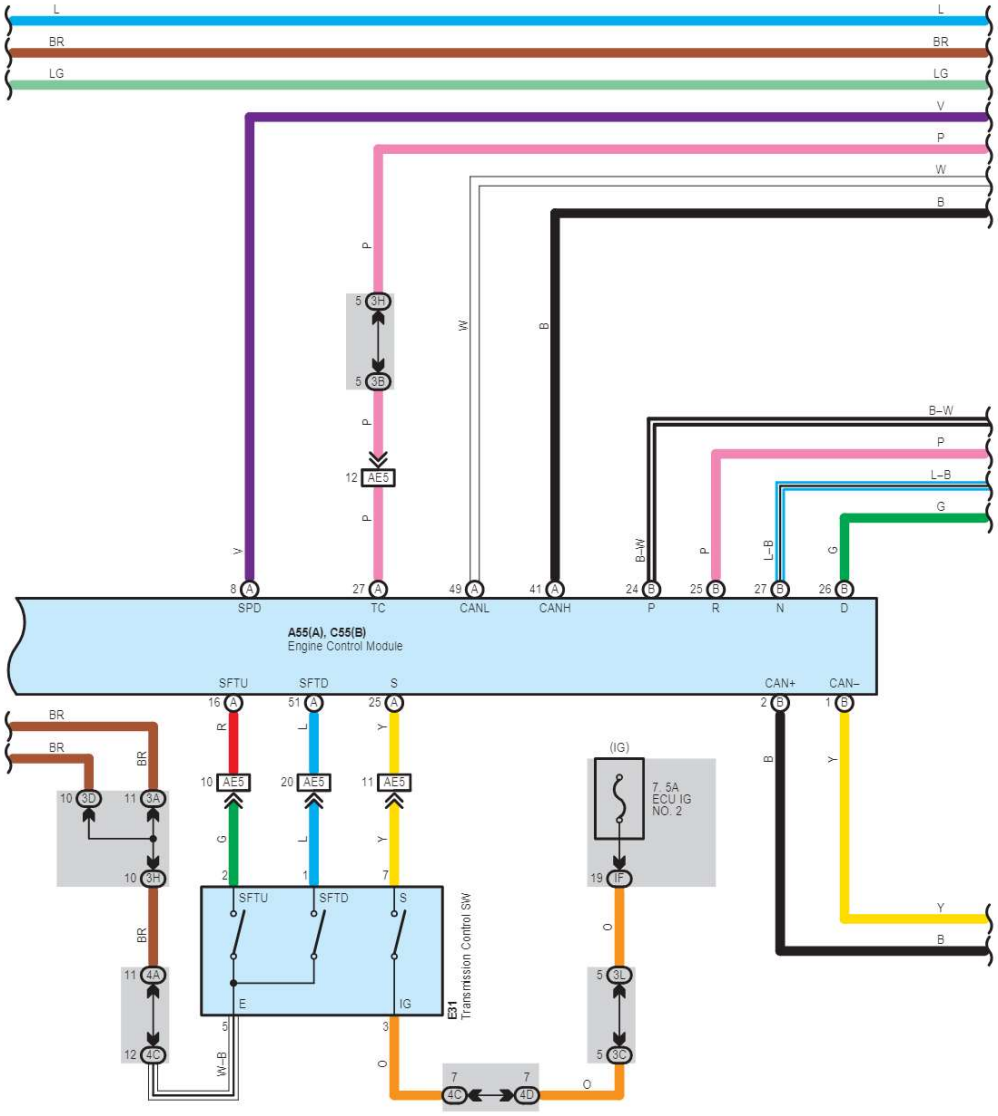
: **Ground Points**

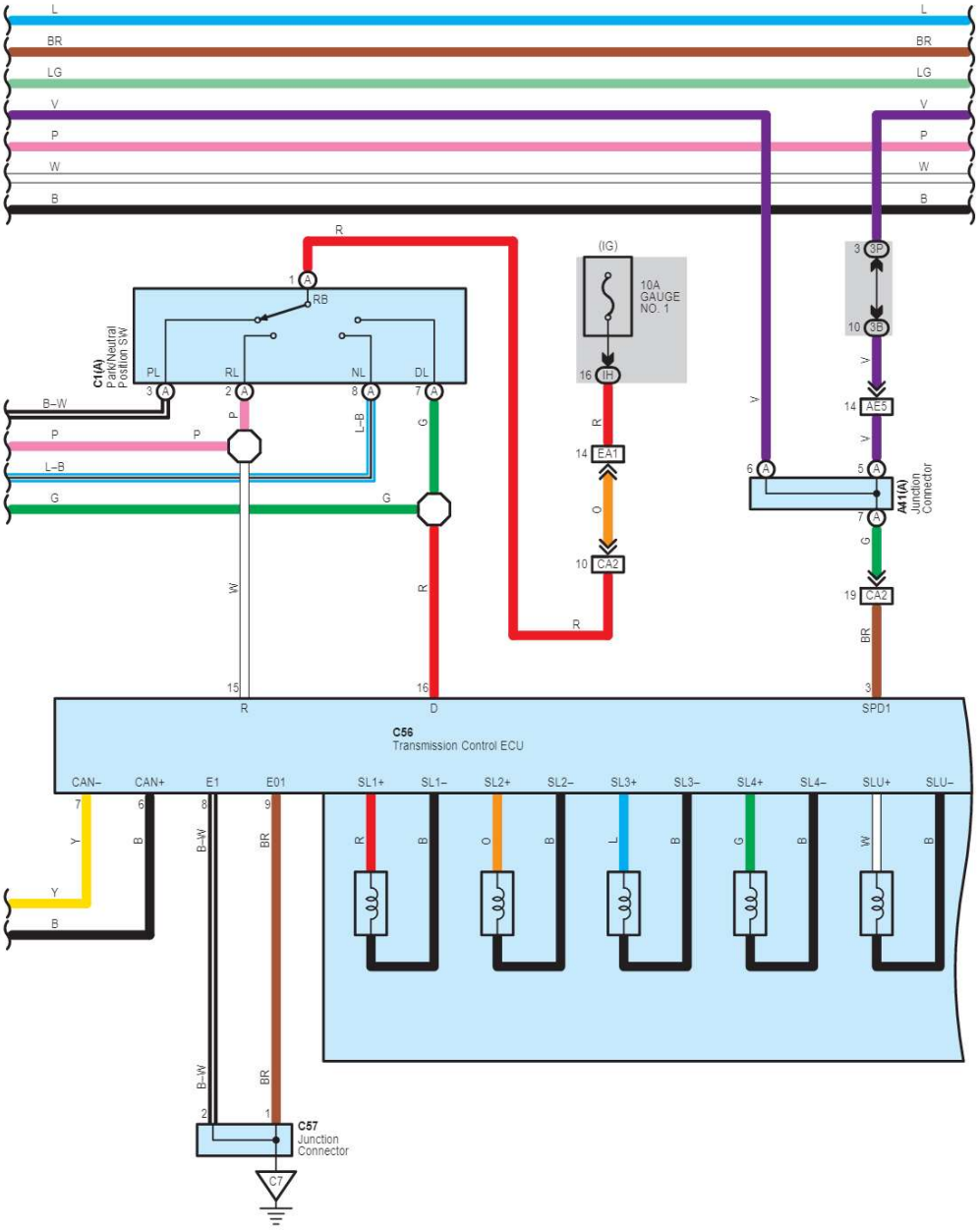
Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH
E3	66	Instrument Panel Right
F1	66	Instrument Panel Left
O1	67	Right Rear Quarter Panel

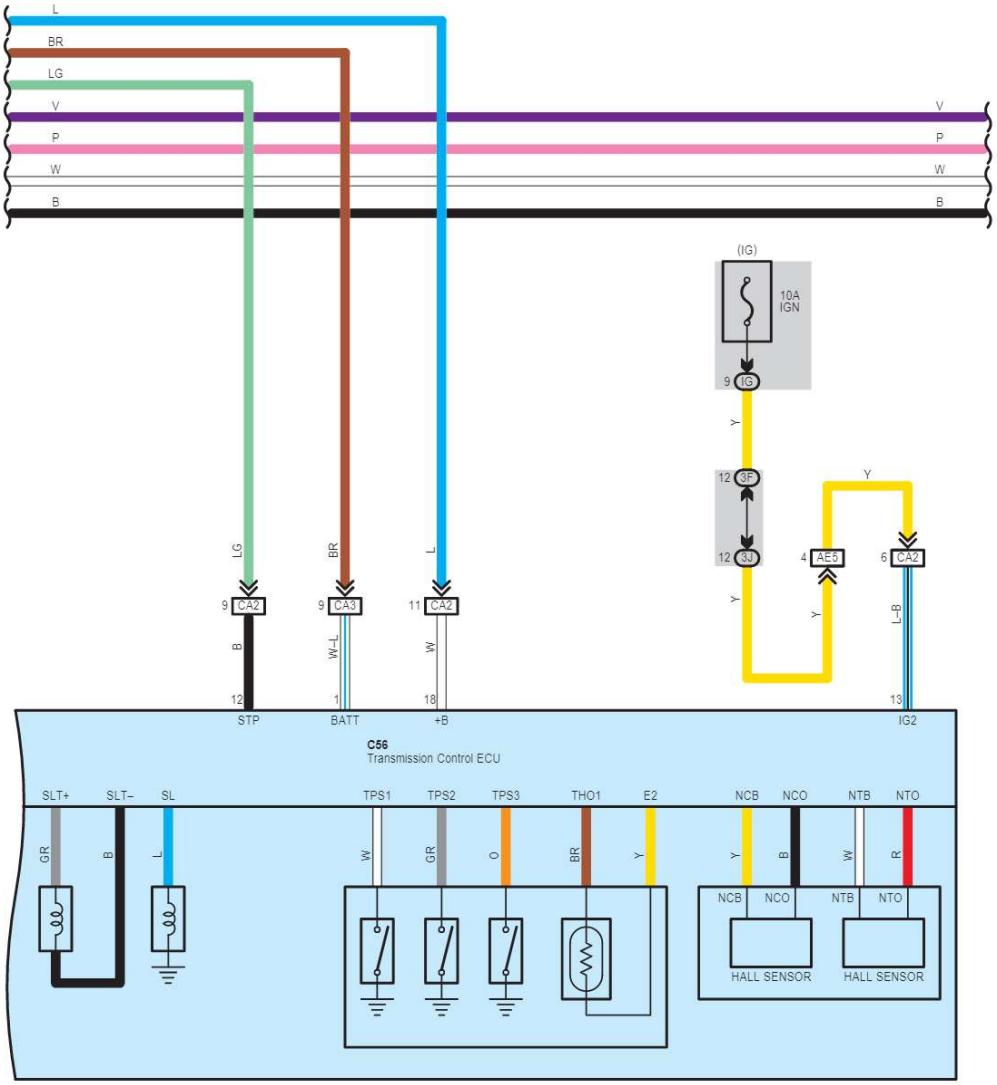
* 1 : w/ Power Seat * 2 : w/o Power Seat

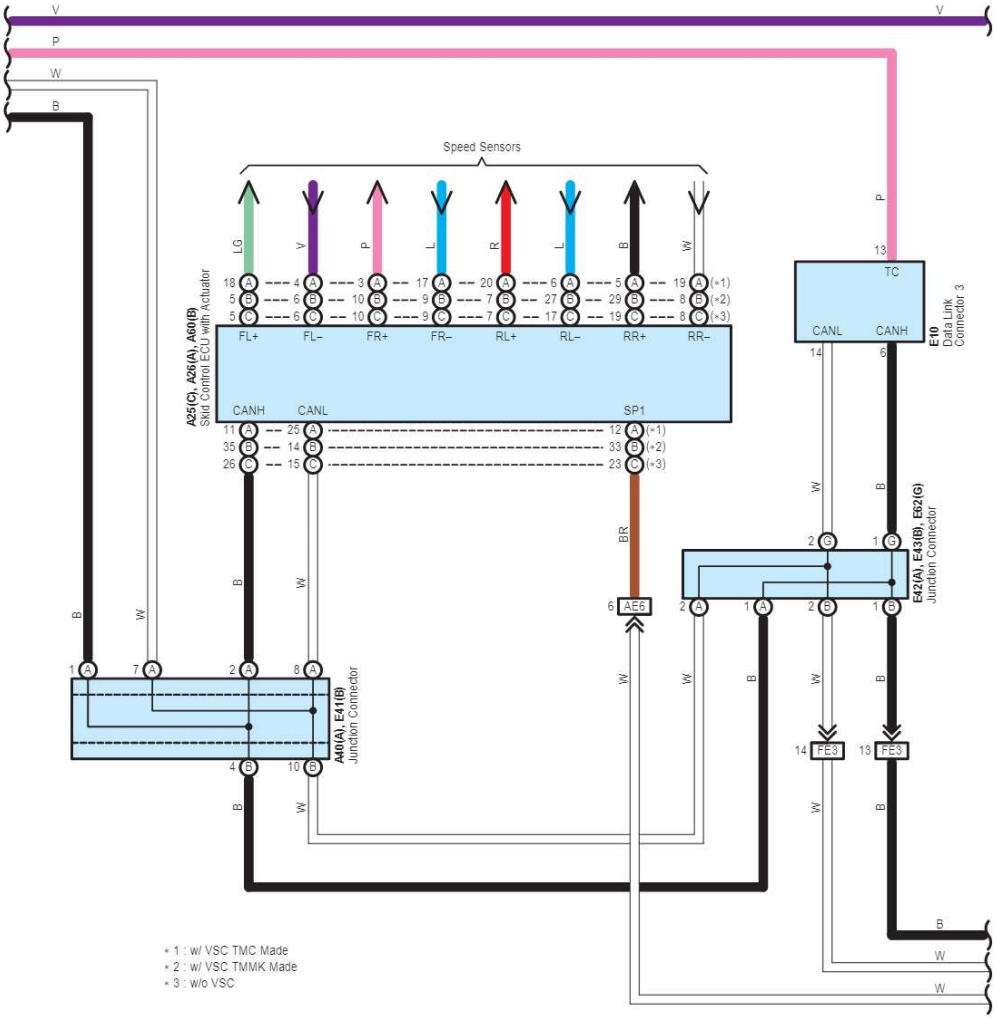

(BAT)
30A
EFI MAIN
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
(Shielded)
C4
Engine Coolant
Temp. Sensor
EFI
Relay
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
THW
ETHW
A55(A), C55(B)
Engine Control Module
MREL
+B
+B2
VCP2
EPA2
VCPA
EPA
VPA
VPA2
15A
EFI
NO. 2
A17
Accelerator Position Sensor
A3
A1

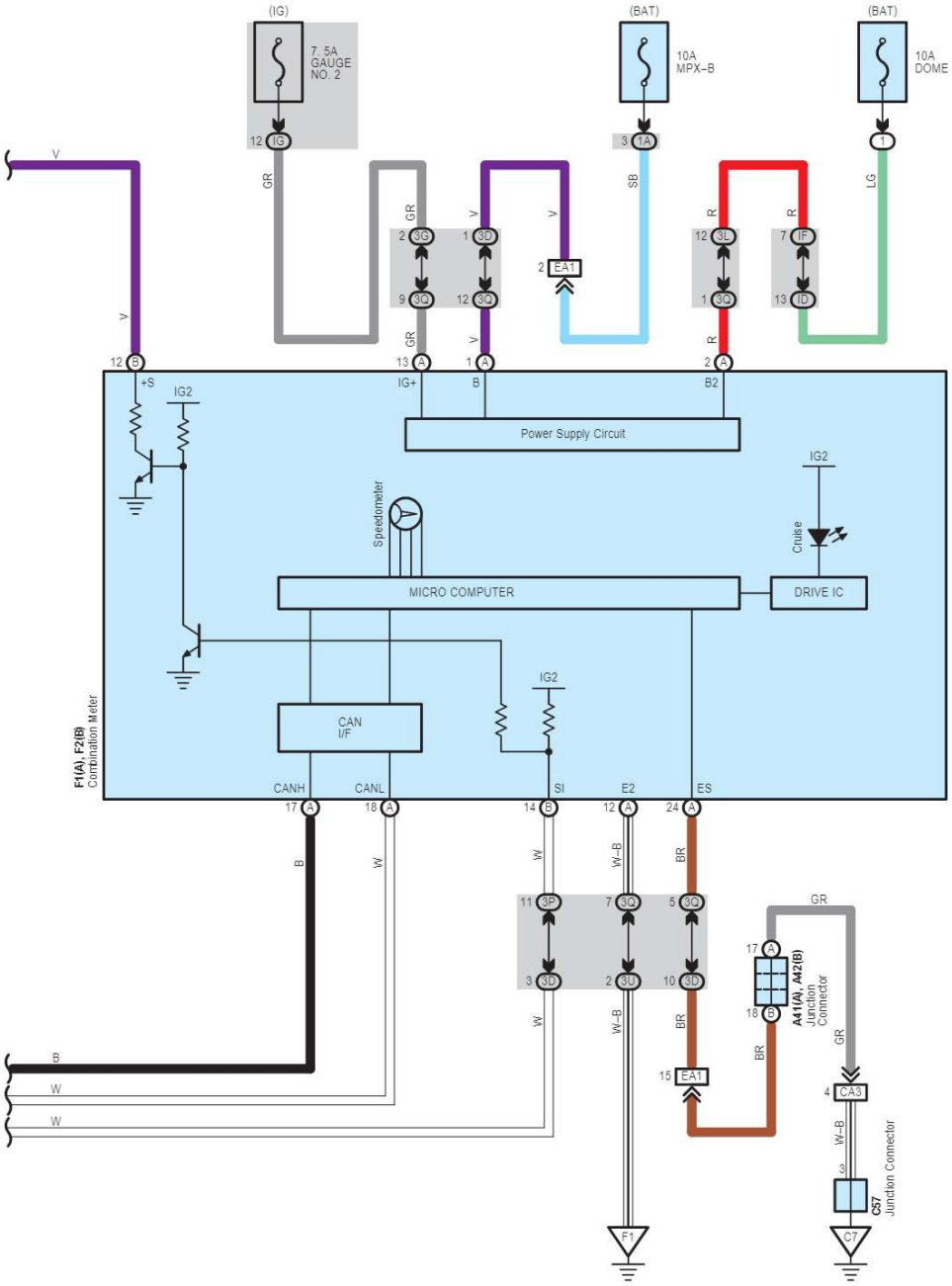

(BAT)
10A ETCS
(BAT)
10A EFI NO. 1
(BAT)
10A STOP
(IG)
10A IGN
A41(A), A42(B) Junction Connector
A41(A), A42(B) Junction Connector
A19 Stop Lamp SW
A58(A), E40(B) Junction Connector
+BM
BATT
STP
ST1–
IGSW
A55(A), C55(B) Engine Control Module
E04
E01
E03
ME01
E02
E05
E1
CCS
E18(A), b1(C) Spiral Cable
ECC
CCS
b1(C) Cruise Control SW
ON–OFF
+RES
–SET
CANCEL
A41(A), A42(B) Junction Connector
C57 Junction Connector
C4
C7
C7


L
BR
LG
V
P
W
B
B–W
L–B
G
5 3H
5 3B
12 AE5
8 A SPD
27 A TC
49 A CANL
41 A CANH
24 B P
25 B R
27 B N
26 B D
A55(A), C55(B)
Engine Control Module
SFTU
SFTD
S
CAN+
CAN–
16 A
51 A
25 A
2 B
1 B
10 AE5
20 AE5
11 AE5
10 3D
11 3A
10 3H
11 4A
12 4C
2
1
7
5
3
7 4C
7 4D
E
IG
E31
Transmission Control SW
(IG)
7.5A
ECU IG
NO. 2
19 1F
5 3L
5 3C
O
W–B


L
BR
LG
V
P
W
B
R
(IG)
10A
GAUGE
NO. 1
C1(A)
Park/Neutral
Position SW
PL
RL
NL
DL
RB
B–W
L–B
G
W
3P
3B
AE5
EA1
CA2
A41(A)
Junction
Connector
C56
Transmission Control ECU
CAN–
CAN+
E1
E01
SL1+
SL1–
SL2+
SL2–
SL3+
SL3–
SL4+
SL4–
SLU+
SLU–
SPD1
C57
Junction
Connector
C7


L
BR
LG
V
P
W
B
V
P
W
B
(IG)
10A
IGN
9 IG
Y
12 3F
12 3J
Y
4 AE5
6 CA2
Y
Y
L–B
LG
BR
L
9 CA2
9 CA3
11 CA2
B
W–L
W
12
1
18
13
STP
BATT
+B
IG2
C56
Transmission Control ECU
SLT+
SLT–
SL
TPS1
TPS2
TPS3
THO1
E2
NCB
NCO
NTB
NTO
GR
B
L
W
GR
O
BR
Y
Y
B
W
R
NCB
NCO
NTB
NTO
HALL SENSOR
HALL SENSOR


Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
CANH
CANL
SP1
TC
CANL
CANH
E10
Data Link Connector 3
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E62(G)
Junction Connector
AE6
FE3
FE3
* 1 : w/ VSC TMC Made
* 2 : w/ VSC TMMK Made
* 3 : w/o VSC


(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
Power Supply Circuit
Speedometer
MICRO COMPUTER
DRIVE IC
Cruise
CAN
I/F
F1(A), F2(B)
Combination Meter
A411(A), A42(B)
Junction
Connector
C57
Junction Connector

System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

Set Operation

When the ON–OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

Set Speed Control

When the – SET SW is operated with the ON–OFF SW turned on during driving, the speed is controlled at a constant speed.

Coast Control

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

Accel Control

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

Resume Control

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

If any one of the following signals is input during cruise control driving, the cruise control is canceled.

- The stop light SW is on
- The CANCEL SW is turned on
- The ON–OFF SW is turned off
- When switching from ON to OFF of "D" position circuit in neutral start switch.
  When the transmission is shifted from "D" to "N".
  When the transmission is shifted from 5, 4 to 3, 2, 1 in S mode.

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:

- Failure in the stop light SW wiring
- Abnormality in the vehicle speed signal
- Malfunction in the electronically controlled throttle parts
- When the vehicle speed gets slower than the low speed limit.
- When the vehicle speed falls to 16 km/h less than the set speed.

Overdrive Function

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. When the throttle opening information indicates the hill climbing is finished after the overdrive is canceled, the vehicle returns to overdrive mode again as the overdrive return timer is completed.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A17		59	A60	B	49 (2GR–FE)	E31		56
A19		59	C1	A	50 (2GR–FE)	E40	B	57
A25	C	48 (2GR–FE)	C4		50 (2GR–FE)	E41	B	57
A26	A	48 (2GR–FE)	C5		50 (2GR–FE)	E42	A	57
A40	A	59	C55	B	51 (2GR–FE)	E43	B	57
A41	A	59	C56		51 (2GR–FE)	E62	G	57
A42	B	59	C57		51 (2GR–FE)	F1	A	58
A55	A	49 (2GR–FE)	E10		56	F2	B	58
A58	A	59	E18	A	56	b1	C	59

▭ : 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**

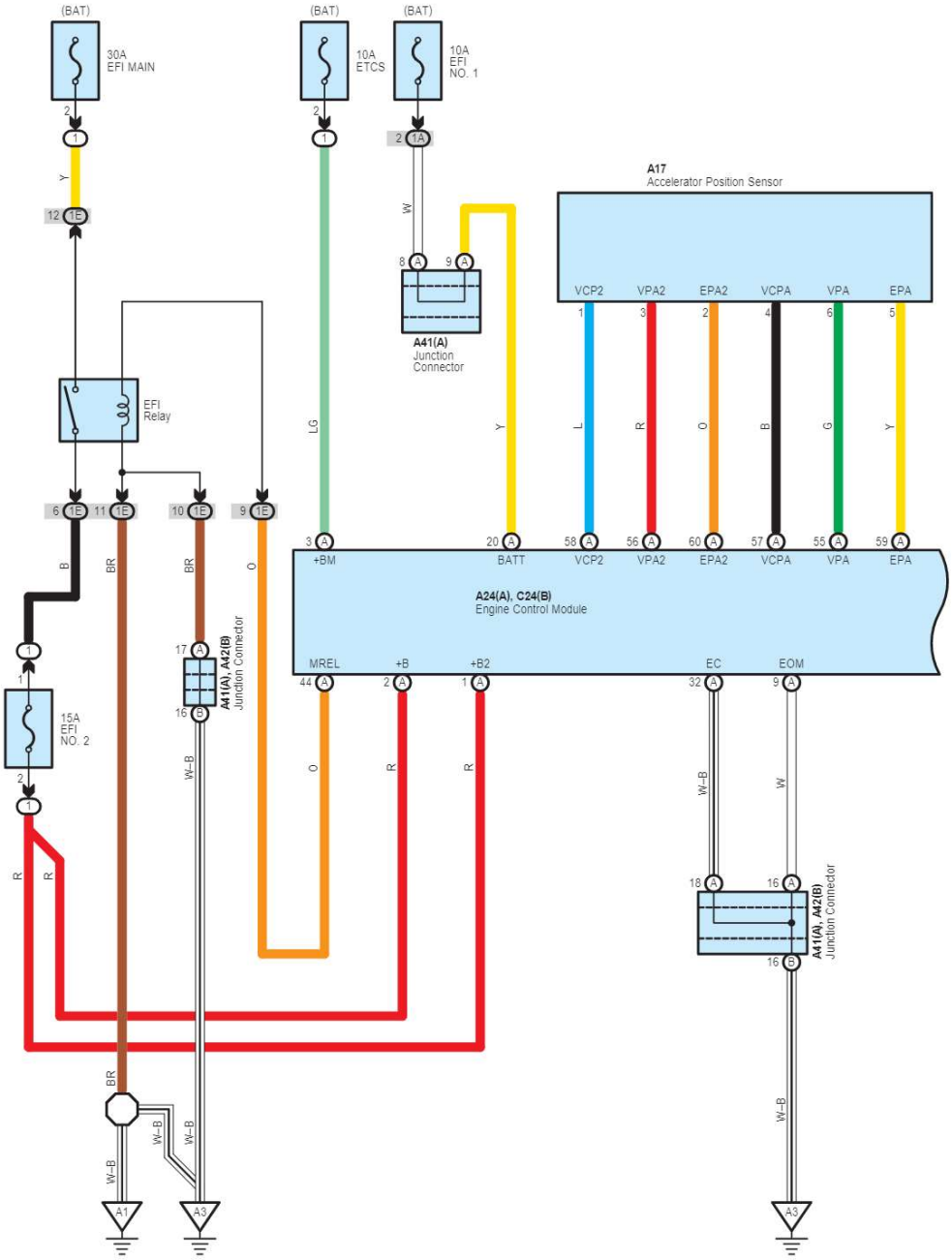
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3F		
3G		
3H		
3J		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		

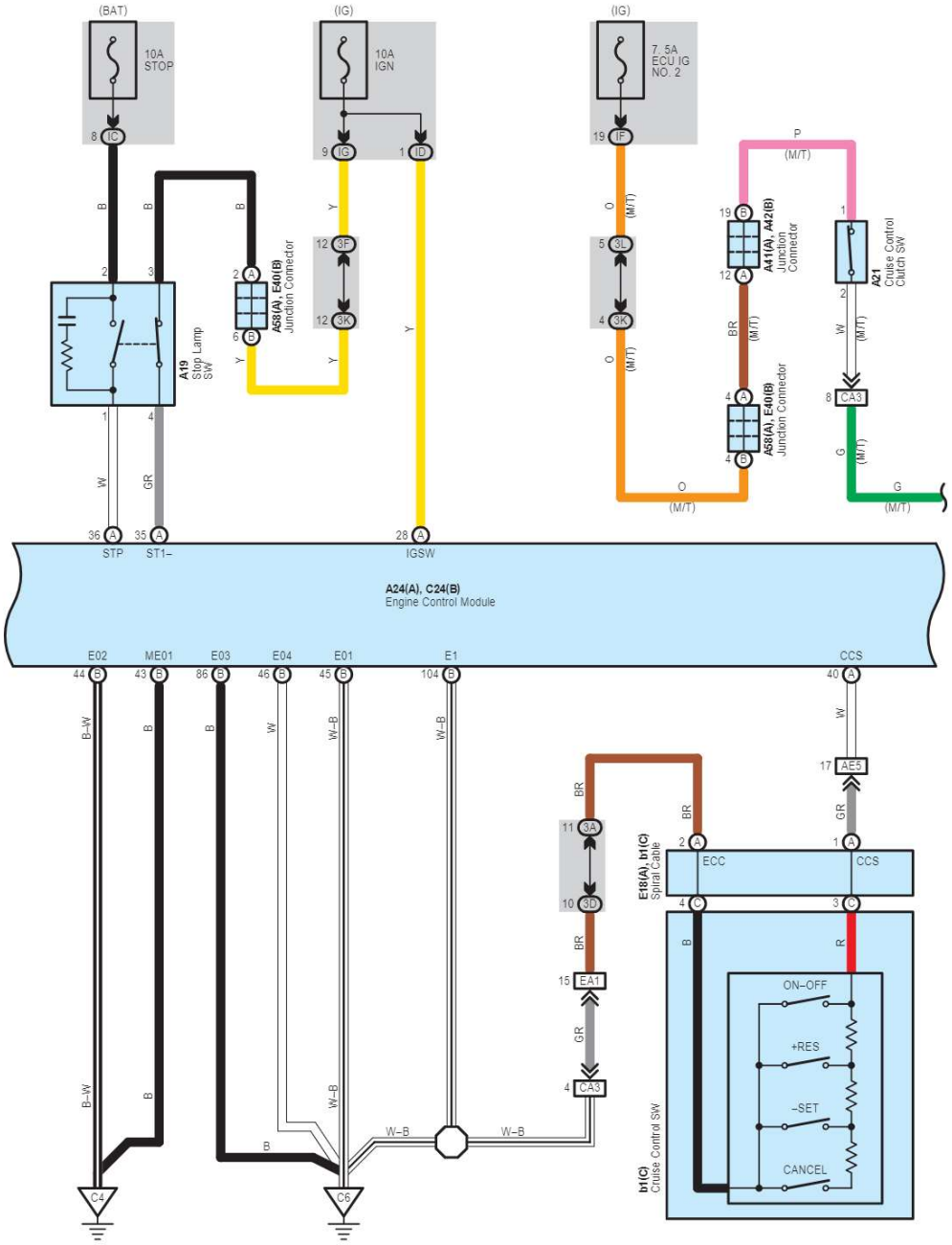
: **Connector Joining Wire Harness and Wire Harness**

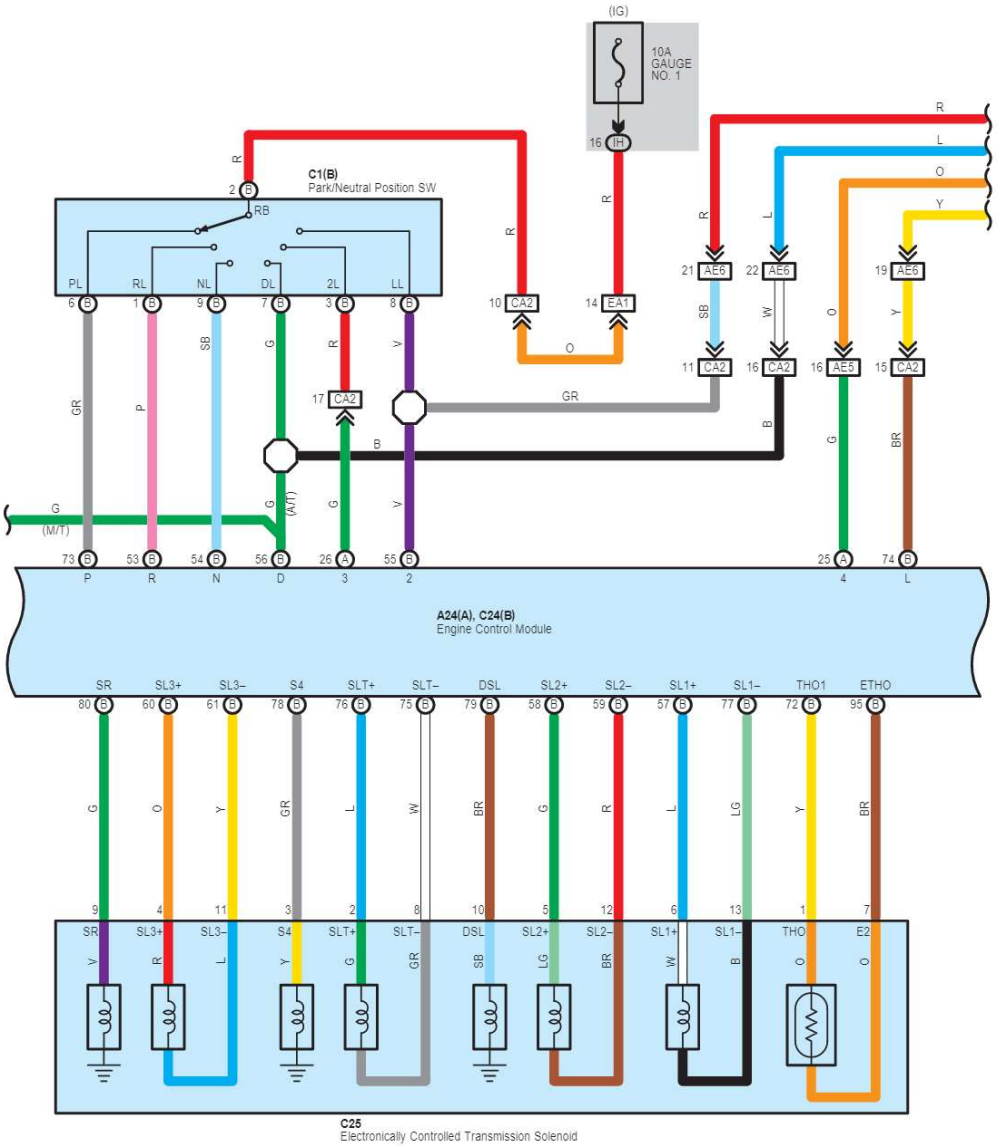
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

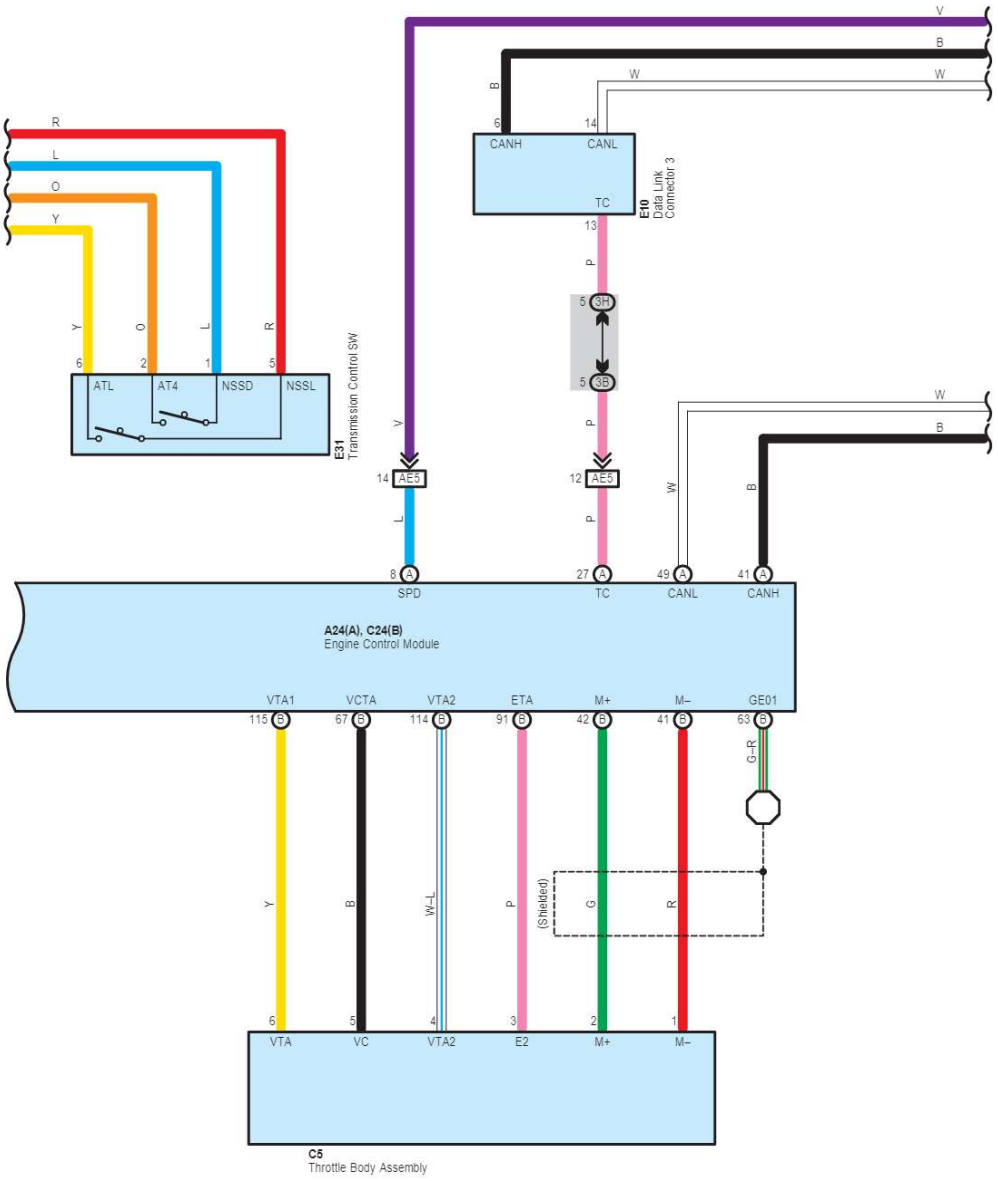
: **Ground Points**

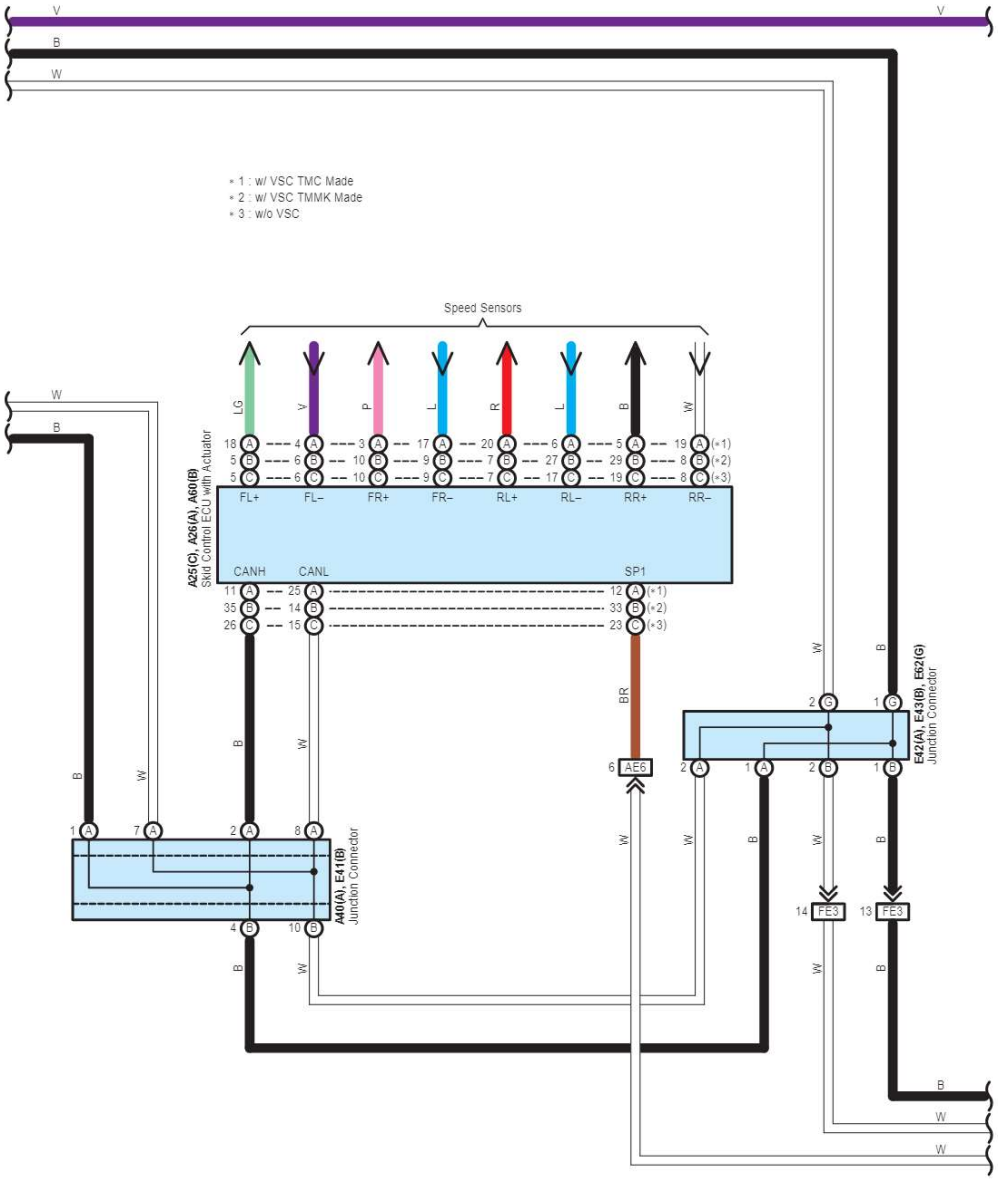
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A3	66	Left Cowl Side Panel
C4	64 (2GR–FE)	Cylinder Head
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left

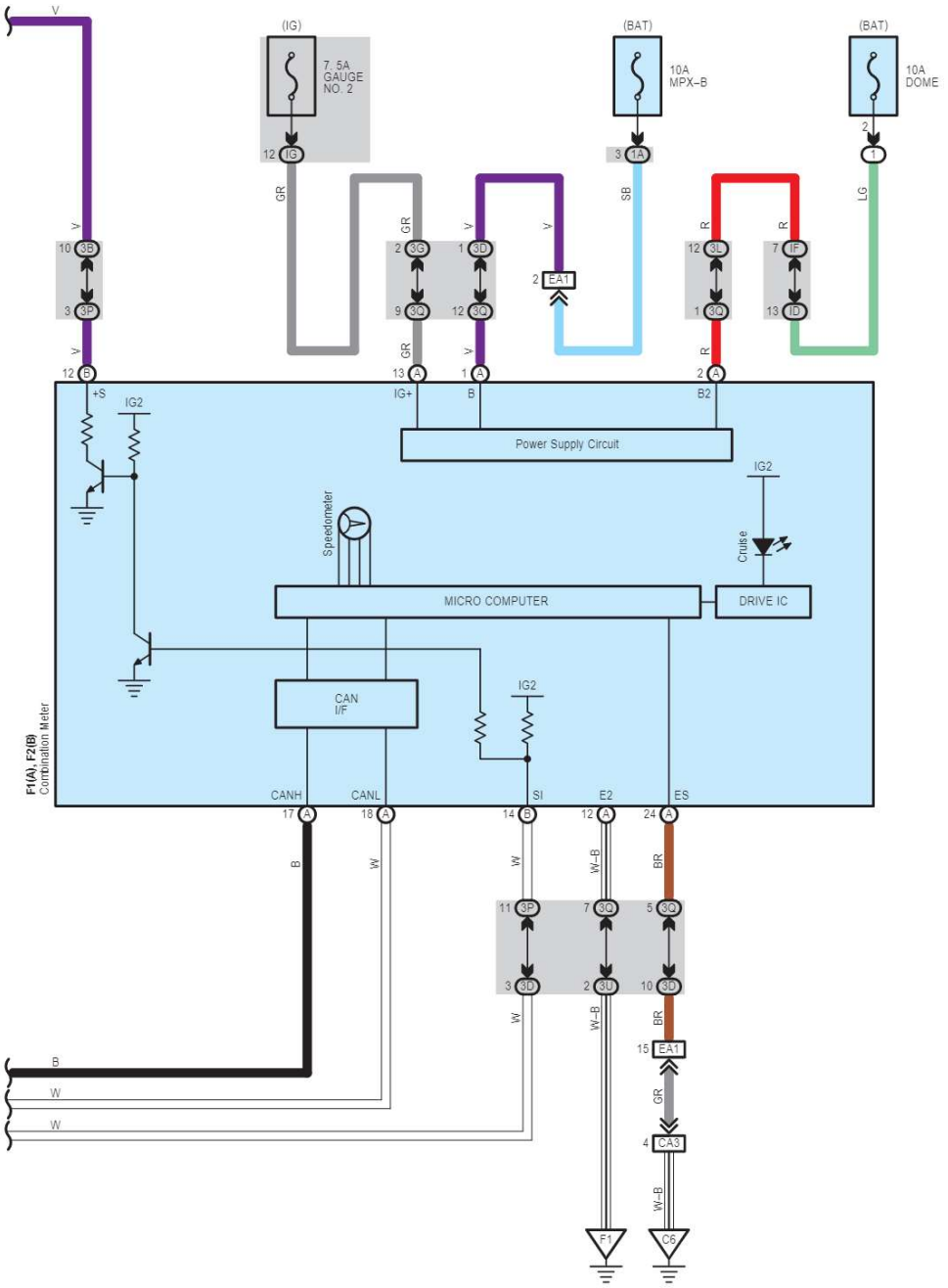

(BAT)
30A
EFI MAIN
(BAT)
10A
ETCS
(BAT)
10A
EFI
NO. 1
A17
Accelerator Position Sensor
VCP2
VPA2
EPA2
VCPA
VPA
EPA
A41(A)
Junction
Connector
EFI
Relay
15A
EFI
NO. 2
A41(A), A42(B)
Junction Connector
A24(A), C24(B)
Engine Control Module
+BM
BATT
MREL
+B
+B2
EC
EOM
A1
A3


(BAT)
10A
STOP
8 IC
(IG)
10A
IGN
9 IG
1 ID
(IG)
7.5A
ECU IG
NO. 2
19 IF
A19
Stop Lamp
SW
A58(A), E40(B)
Junction Connector
12 3F
12 3K
5 3L
4 3K
A41(A), A42(B)
Junction Connector
A58(A), E40(B)
Junction Connector
A21
Cruise Control
Clutch SW
8 CA3
36 STP
35 ST1–
28 IGSW
A24(A), C24(B)
Engine Control Module
E02
ME01
E03
E04
E01
E1
CCS
44
43
86
46
45
104
40
17 AE5
11 3A
10 3D
15 EA1
4 CA3
E18(A), b1(C)
Spiral Cable
ECC
CCS
b1(C)
Cruise Control SW
ON–OFF
+RES
–SET
CANCEL
C4
C6


(IG)
10A
GAUGE
NO. 1
16 IH
C1(B)
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
2 B
6 B
1 B
9 B
7 B
3 B
8 B
10 CA2
14 EA1
21 AE6
22 AE6
19 AE6
11 CA2
16 CA2
16 AE5
15 CA2
17 CA2
73 B
53 B
54 B
56 B
26 A
55 B
25 A
74 B
P
R
N
D
3
2
4
L
A24(A), C24(B)
Engine Control Module
SR
SL3+
SL3–
S4
SL+
SL–
DSL
SL2+
SL2–
SL1+
SL1–
THO1
ETHO
80 B
60 B
61 B
78 B
76 B
75 B
79 B
58 B
59 B
57 B
77 B
72 B
95 B
C25
Electronically Controlled Transmission Solenoid


V
B
W
W
B
6
14
CANH
CANL
TC
E10
Data Link Connector 3
13
P
5 3H
5 3B
R
L
O
Y
Y
O
L
R
6
2
1
5
ATL
AT4
NSSD
NSSL
E31
Transmission Control SW
V
14 AE5
12 AE5
L
P
P
W
B
W
B
8 A
27 A
49 A
41 A
SPD
TC
CANL
CANH
A24(A), C24(B)
Engine Control Module
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
115 B
67 B
114 B
91 B
42 B
41 B
63 B
G–R
Y
B
W–L
P
(Shielded)
G
R
6
5
4
3
2
1
VTA
VC
VTA2
E2
M+
M–
C5
Throttle Body Assembly


* 1 : w/ VSC TMC Made
* 2 : w/ VSC TMMK Made
* 3 : w/o VSC
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E52(G)
Junction Connector
AE6
FE3
FE3


(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX–B
(BAT)
10A DOME
Power Supply Circuit
Speedometer
MICRO COMPUTER
DRIVE IC
Cruise
CAN I/F
F1(A), F2(B) Combination Meter
+S
IG2
IG+
B
B2
CANH
CANL
SI
E2
ES

Cruise Control for 2AZ–FE

System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

Set Operation

When the ON–OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

Set Speed Control

When the – SET SW is operated with the ON–OFF SW turned on during driving, the speed is controlled at a constant speed.

Coast Control

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

Accel Control

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

Resume Control

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

If any one of the following signals is input during cruise control driving, the cruise control is canceled.
- The stop light SW is on
- The CANCEL SW is turned on
- The ON–OFF SW is turned off
- Gear is shifted D position to other positions than D. (A/T)
- The clutch pedal is depressed. (M/T)

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:
- Failure in the stop light SW wiring
- Abnormality in the vehicle speed signal
- Malfunction in the electronically controlled throttle parts
- When the vehicle speed gets slower than the low speed limit.
- When the vehicle speed falls to 16 km/h less than the set speed.

Overdrive Function

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. When the throttle opening information indicates the hill climbing is finished after the overdrive is canceled, the vehicle returns to overdrive mode again as the overdrive return timer is completed.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A17		59	A58	A	59	E40	B	57
A19		59	A60	B	53 (2AZ–FE)	E41	B	57
A21		59	C1	B	54 (2AZ–FE)	E42	A	57
A24	A	52 (2AZ–FE)	C5		54 (2AZ–FE)	E43	B	57
A25	C	52 (2AZ–FE)	C24	B	55 (2AZ–FE)	E62	G	57
A26	A	52 (2AZ–FE)	C25		55 (2AZ–FE)	F1	A	58
A40	A	59	E10		56	F2	B	58
A41	A	59	E18	A	56	b1	C	59
A42	B	59	E31		56			

▭ : 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)
1E		
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3F		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		

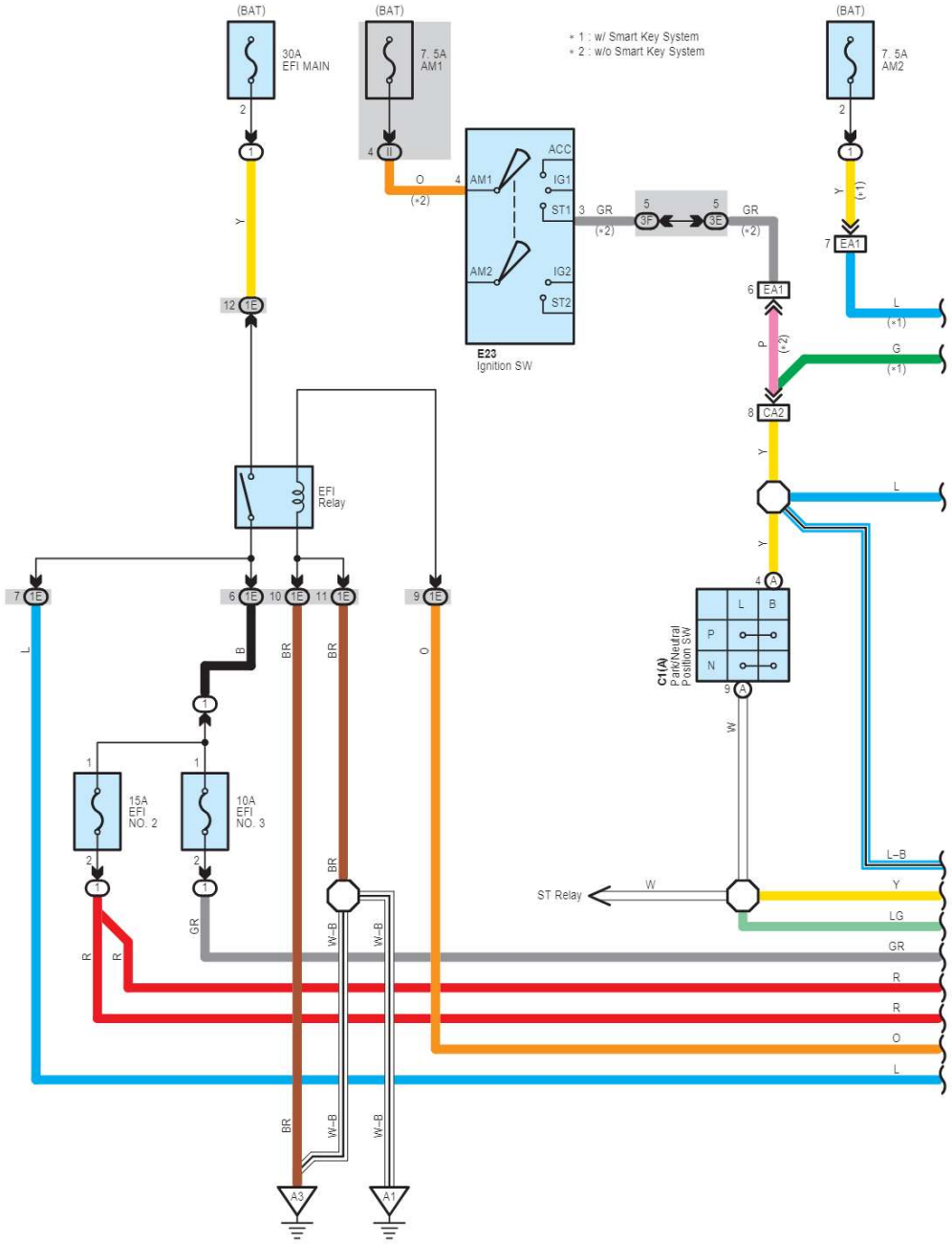
: **Connector Joining Wire Harness and Wire Harness**

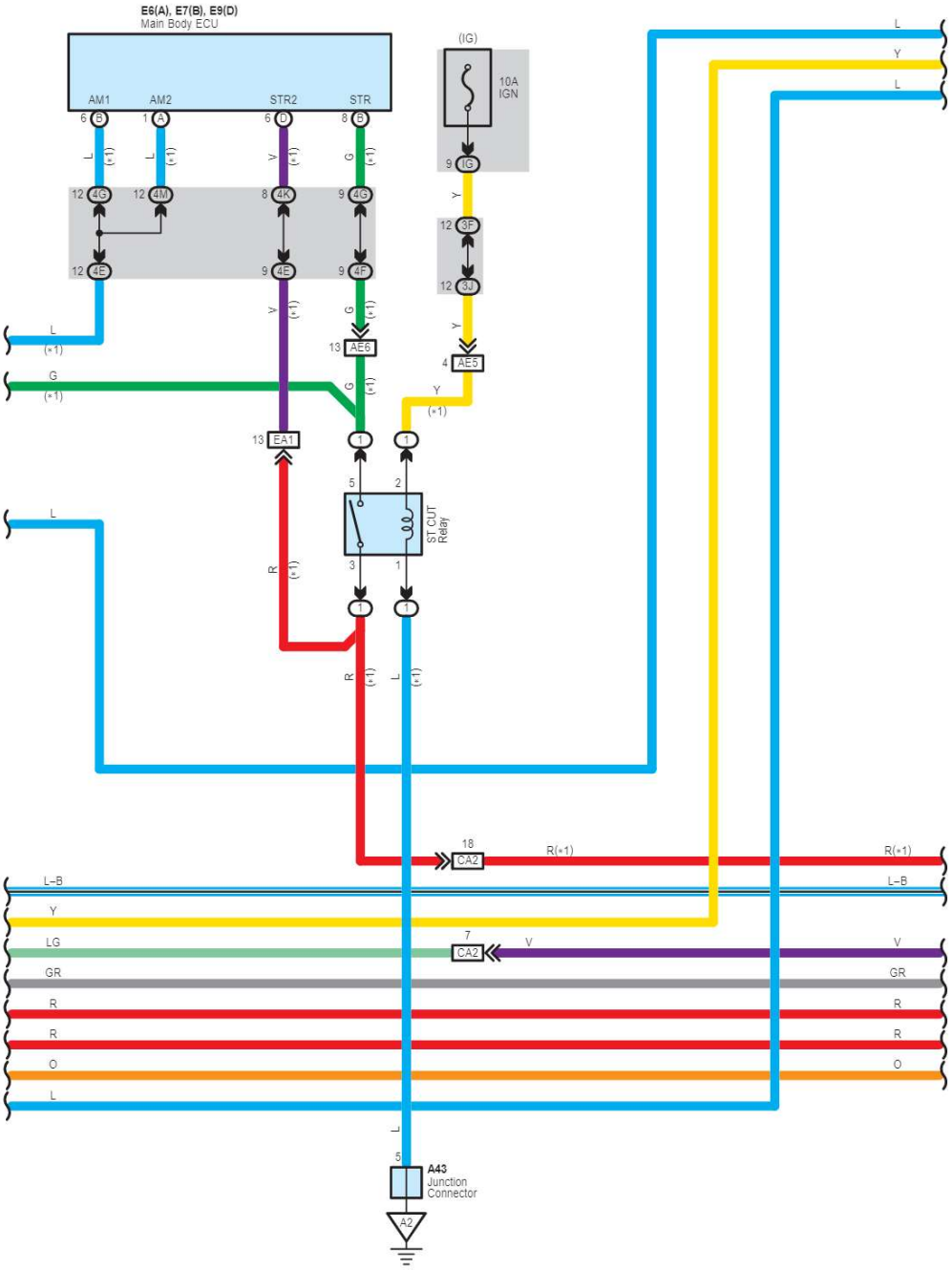
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

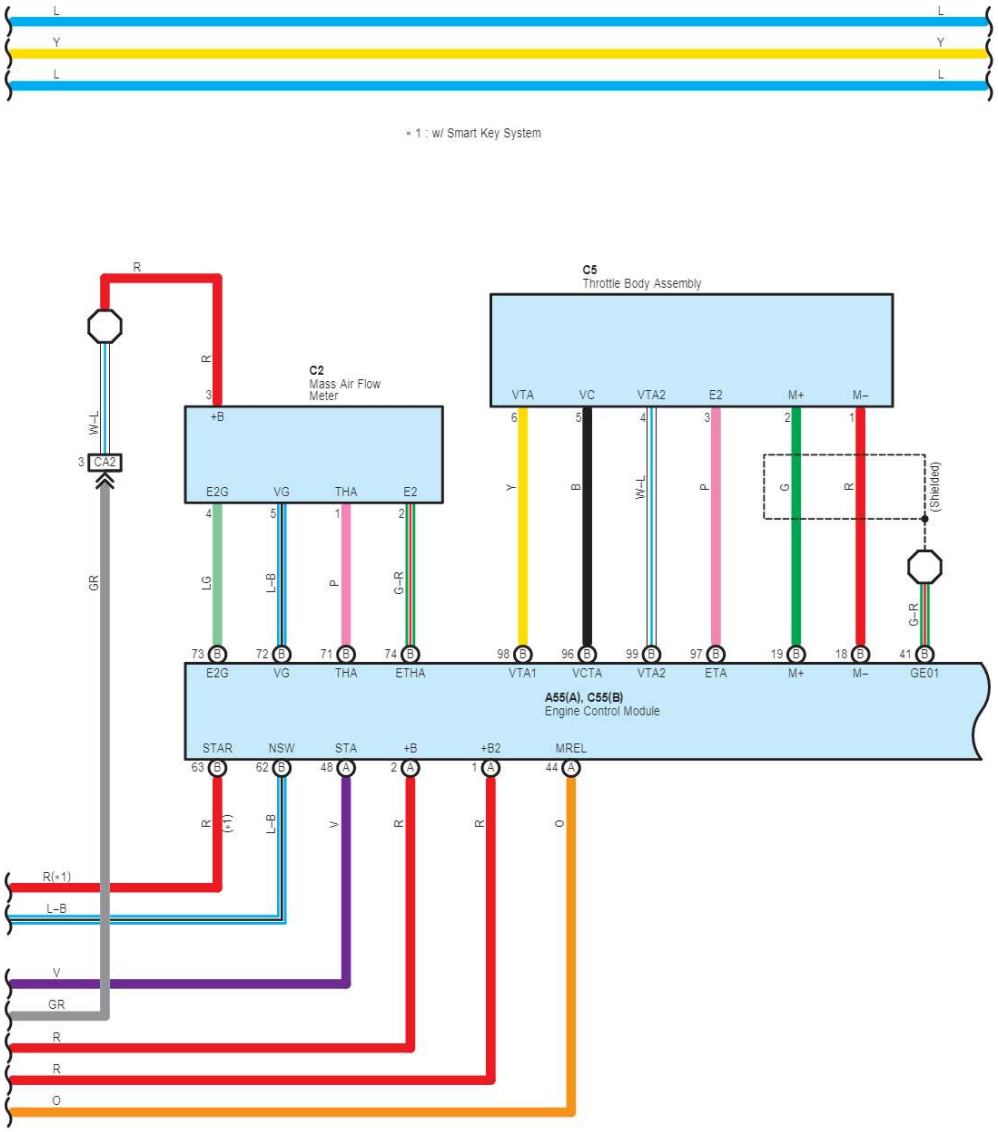
: **Ground Points**

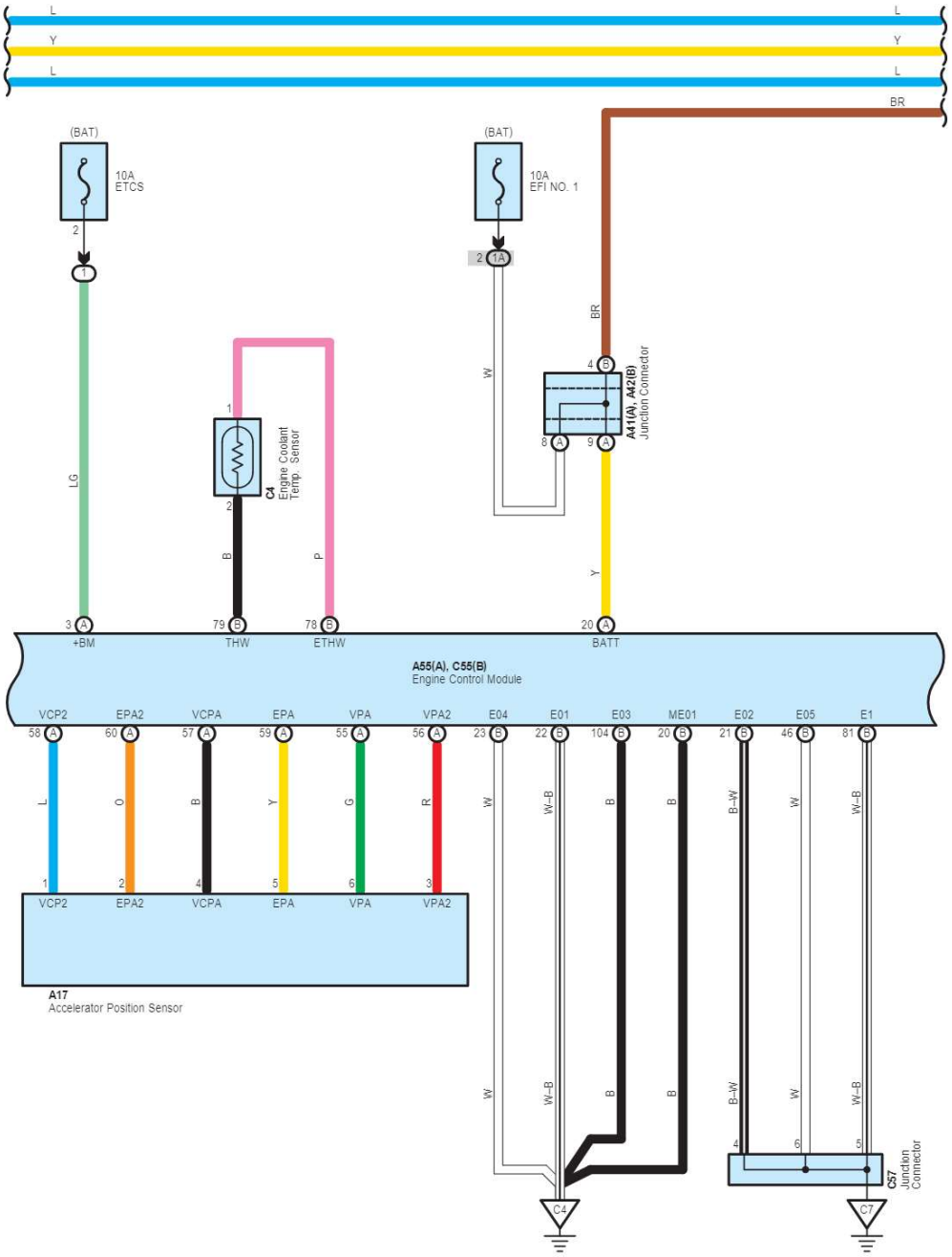
Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
A3	66	Left Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C6		
F1	66	Instrument Panel Left

ECT and A/T Indicator for 2GR–FE

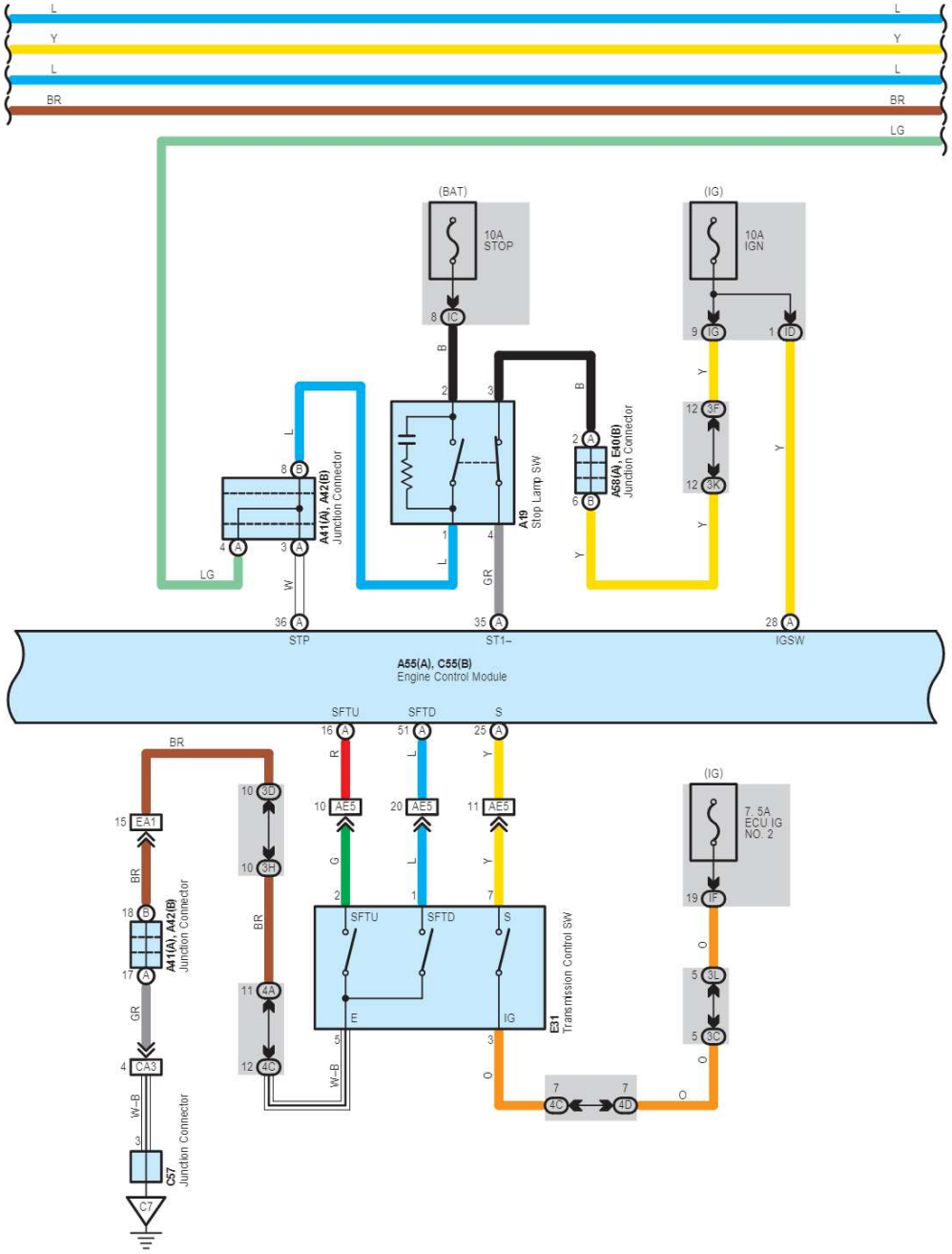


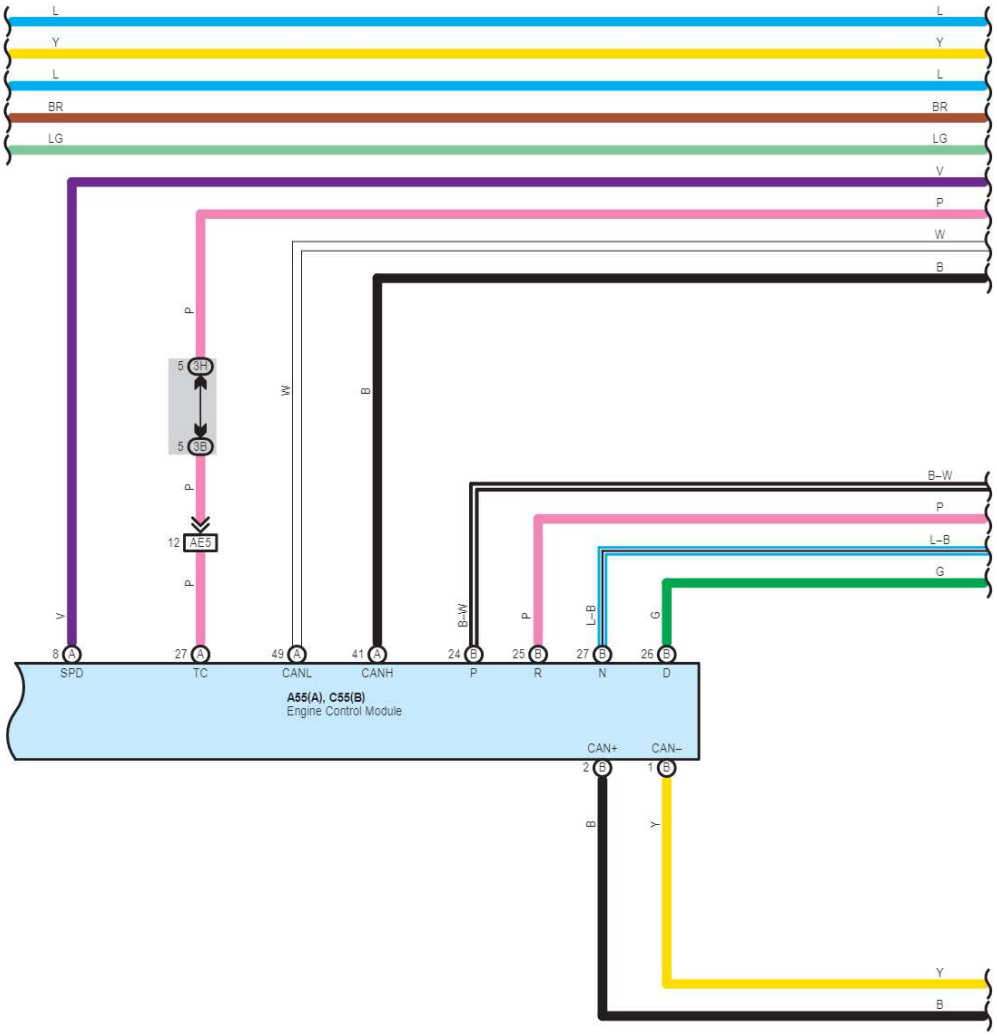

E6(A), E7(B), E9(D)
Main Body ECU
AM1
AM2
STR2
STR
(IG)
10A
IGN
ST CUT
Relay
A43
Junction
Connector
A2


L
Y
L
L
Y
L
* 1 : w/ Smart Key System
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
C2
Mass Air Flow Meter
+B
E2G
VG
THA
E2
CA2
W–L
GR
LG
L–B
P
G–R
Y
B
W–L
P
G
R
(Shielded)
G–R
E2G
VG
THA
ETHA
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A55(A), C55(B)
Engine Control Module
STAR
NSW
STA
+B
+B2
MREL
R
(*1)
L–B
V
R
R
O
R(*1)
L–B
V
GR
R
R
O

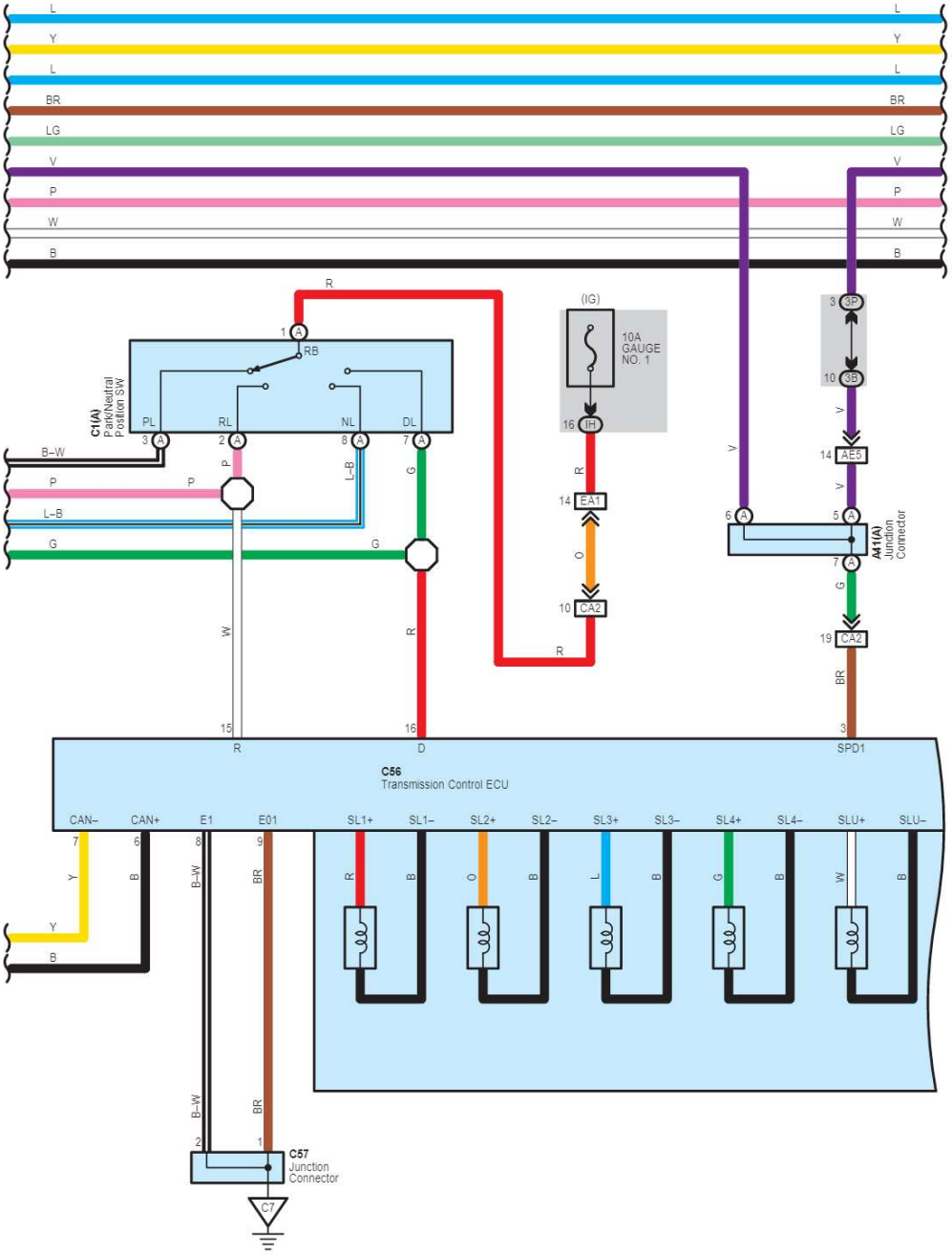

L
Y
L
L
Y
L
BR
(BAT)
10A
ETCS
2
1
(BAT)
10A
EFI NO. 1
2
1A
BR
W
4
B
A41(A), A42(B)
Junction Connector
8
A
9
A
1
C4
Engine Coolant
Temp. Sensor
2
LG
B
P
Y
3
A
+BM
79
B
THW
78
B
ETHW
20
A
BATT
A55(A), C55(B)
Engine Control Module
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E04
E01
E03
ME01
E02
E05
E1
58
A
60
A
57
A
59
A
55
A
56
A
23
B
22
B
104
B
20
B
21
B
46
B
81
B
L
O
B
Y
G
R
W
W–B
B
B
B–W
W
W–B
1
VCP2
2
EPA2
4
VCPA
5
EPA
6
VPA
3
VPA2
A17
Accelerator Position Sensor
W
W–B
B
B
B–W
W
W–B
4
6
5
CS7
Junction
Connector
C4
C7

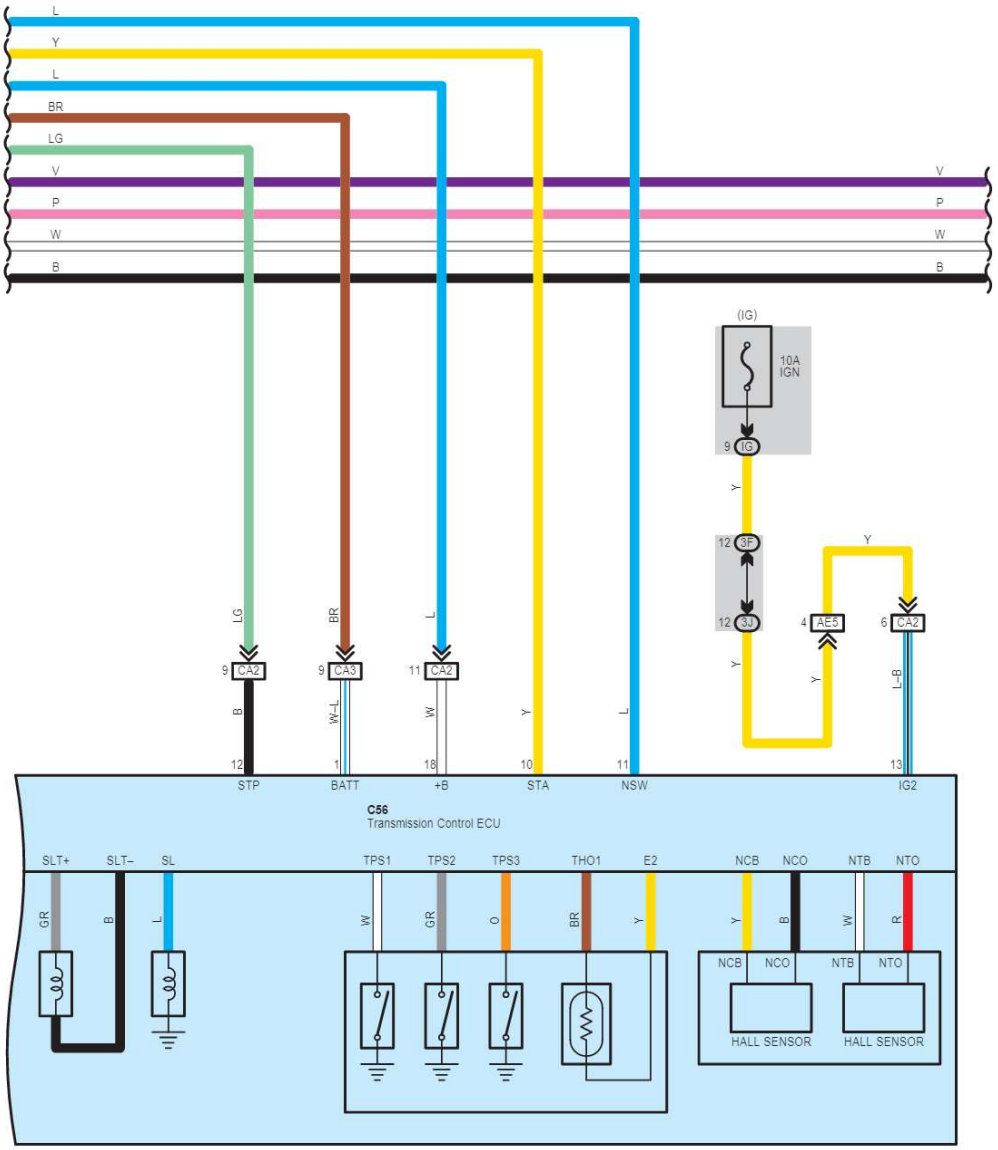
ECT and A/T Indicator for 2GR–FE

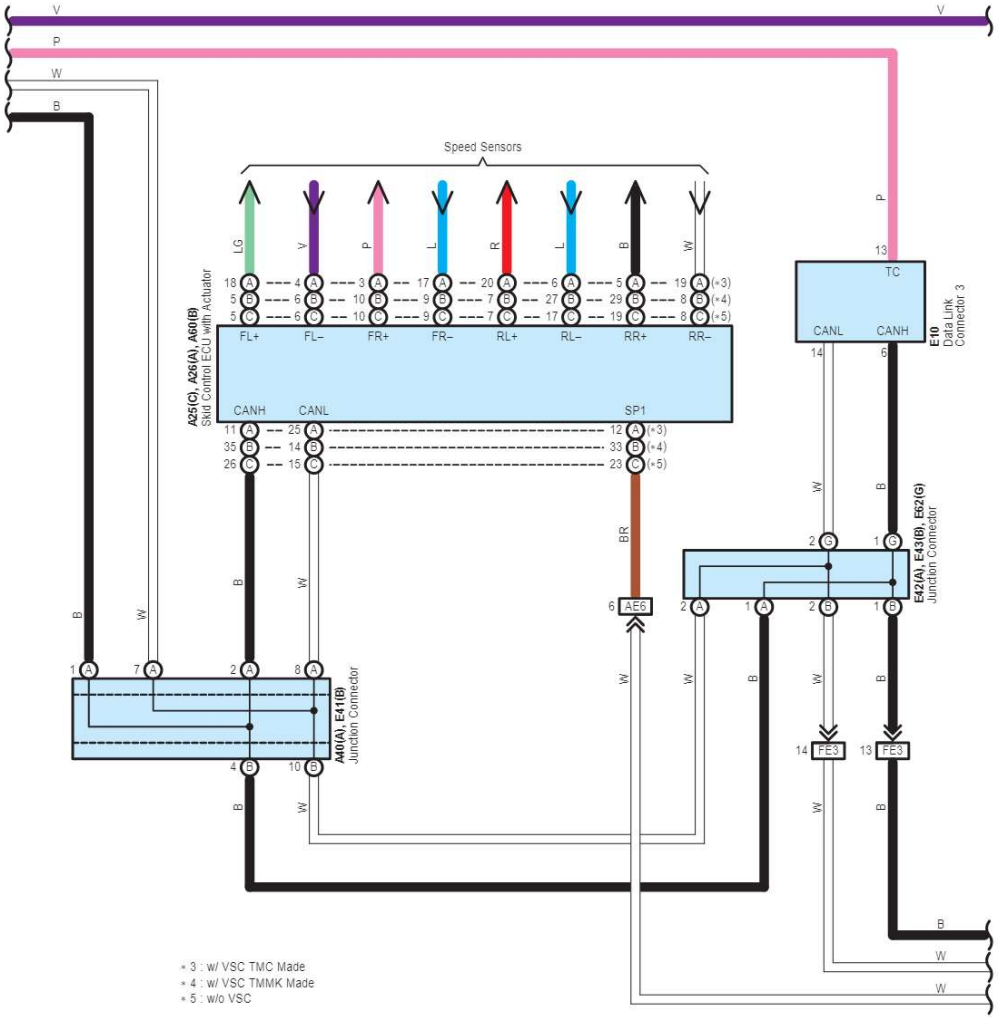


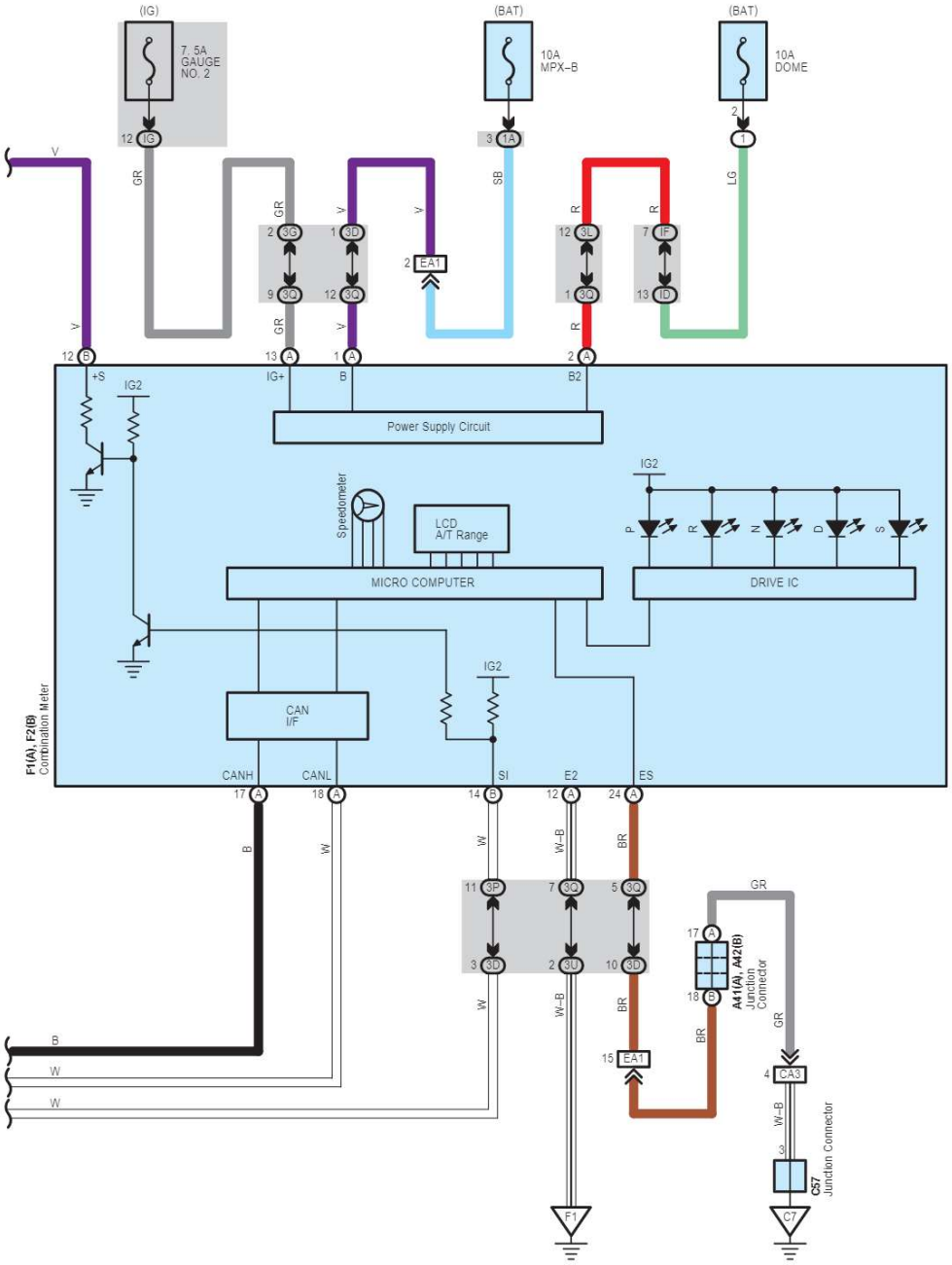

L
Y
L
BR
LG
L
Y
L
BR
LG
V
P
W
B
P
5 3H
5 3B
P
12 AE5
P
W
B
B–W
P
L–B
G
V
B–W
P
L–B
G
8 A SPD
27 A TC
49 A CANL
41 A CANH
24 B P
25 B R
27 B N
26 B D
A55(A), C55(B)
Engine Control Module
CAN+
CAN–
2 B
1 B
B
Y
Y
B

ECT and A/T Indicator for 2GR–FE




L
Y
L
BR
LG
V
P
W
B
(IG)
10A
IGN
9 IG
12 3F
12 3J
4 AE5
6 CA2
9 CA2
9 CA3
11 CA2
12
1
18
10
11
13
STP
BATT
+B
STA
NSW
IG2
C56
Transmission Control ECU
SLT+
SLT–
SL
TPS1
TPS2
TPS3
THO1
E2
NCB
NCO
NTB
NTO
HALL SENSOR
HALL SENSOR


Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
TC
CANL
CANH
E10
Data Link
Connector 3
E42(A), E43(B), E52(G)
Junction Connector
A40(A), E41(B)
Junction Connector
AE6
FE3
FE3
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC


(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
Power Supply Circuit
Speedometer
LCD
A/T Range
MICRO COMPUTER
DRIVE IC
CAN
I/F
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction
Connector
C57
Junction Connector

ECT and A/T Indicator for 2GR–FE

System Outline

1. Line Pressure Optimal Control

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

2. Clutch Pressure Optimal Control

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

3. Shifting Control in Uphill/Downhill Traveling

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

4. Flex Lock–Up Clutch Control

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

5. Multi Mode Automatic Transmission

Multi mode automatic transmission have [S]–position is beside of [D]–position. If moving the selector lever "S" side, you can select shift range just link manual shifting.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A17		59	C1	A	50 (2GR–FE)	E23		56
A19		59	C2		50 (2GR–FE)	E31		56
A25	C	48 (2GR–FE)	C4		50 (2GR–FE)	E40	B	57
A26	A	48 (2GR–FE)	C5		50 (2GR–FE)	E41	B	57
A40	A	59	C55	B	51 (2GR–FE)	E42	A	57
A41	A	59	C56		51 (2GR–FE)	E43	B	57
A42	B	59	C57		51 (2GR–FE)	E62	G	57
A43		49 (2GR–FE)	E6	A	56	F1	A	58
A55	A	49 (2GR–FE)	E7	B	56	F2	B	58
A58	A	59	E9	D	56			
A60	B	49 (2GR–FE)	E10		56			

▭ : 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**

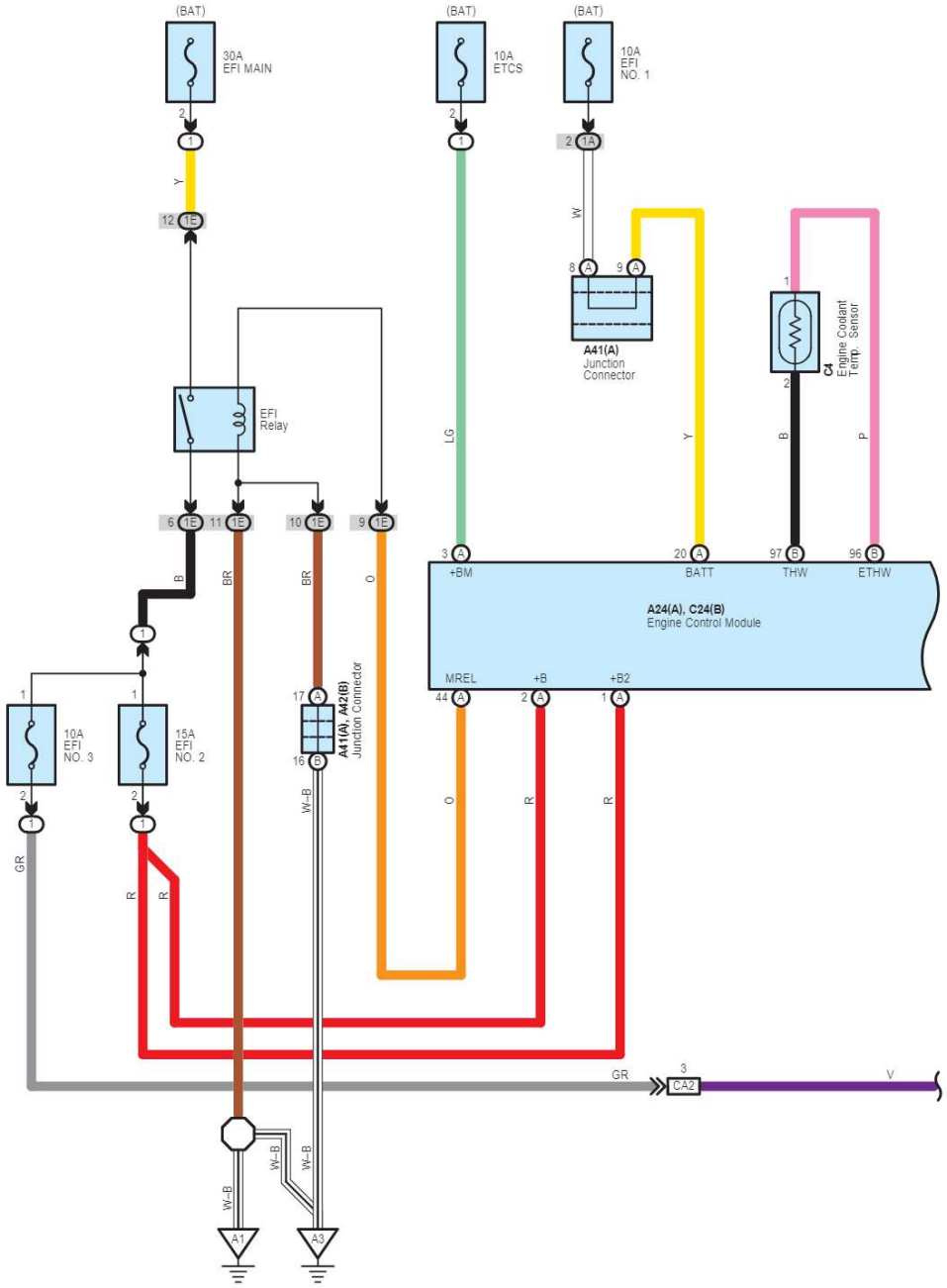
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3E		
3F		
3G		
3H		
3J		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
4E		
4F		
4G		
4K		
4M		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
II		

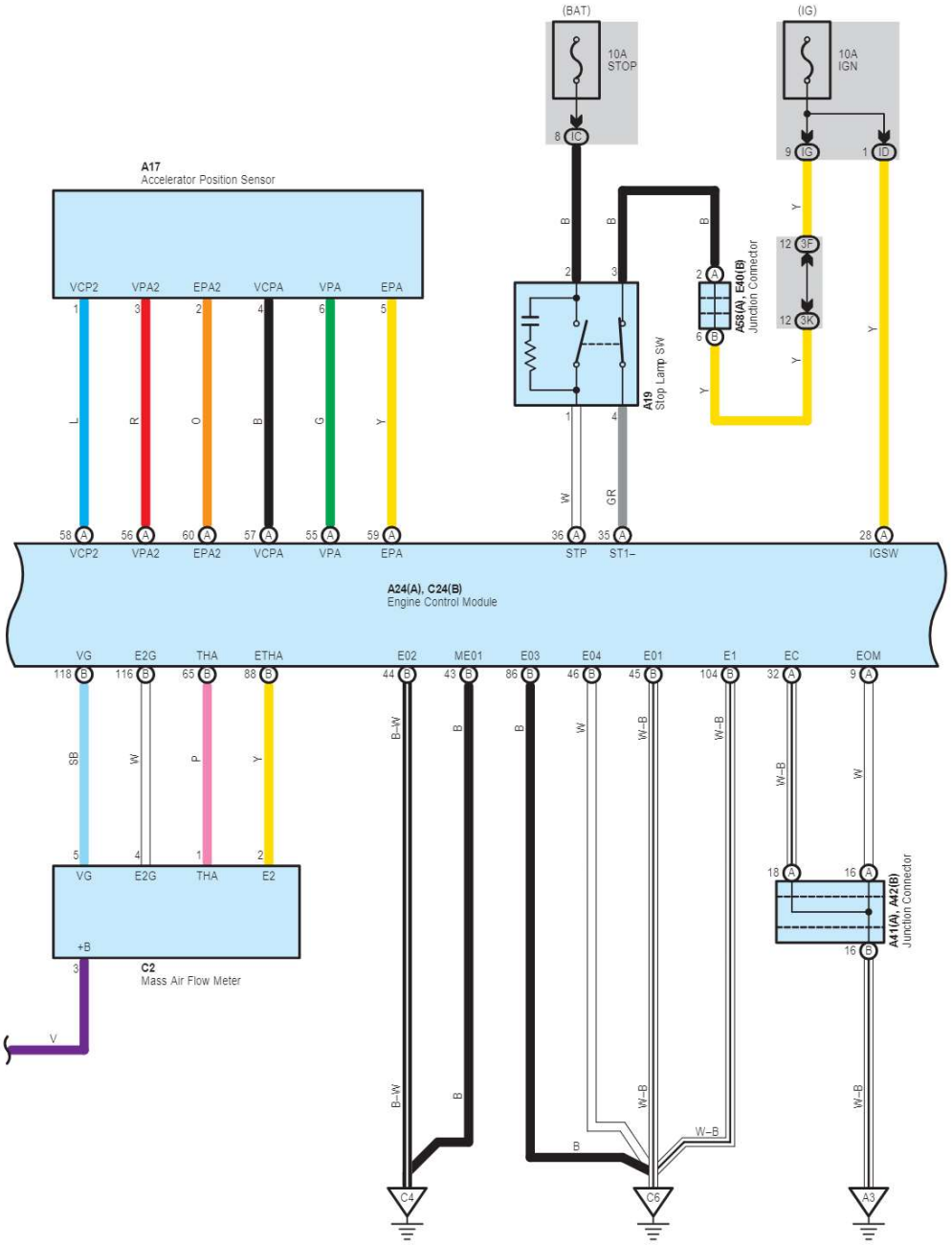
: **Connector Joining Wire Harness and Wire Harness**

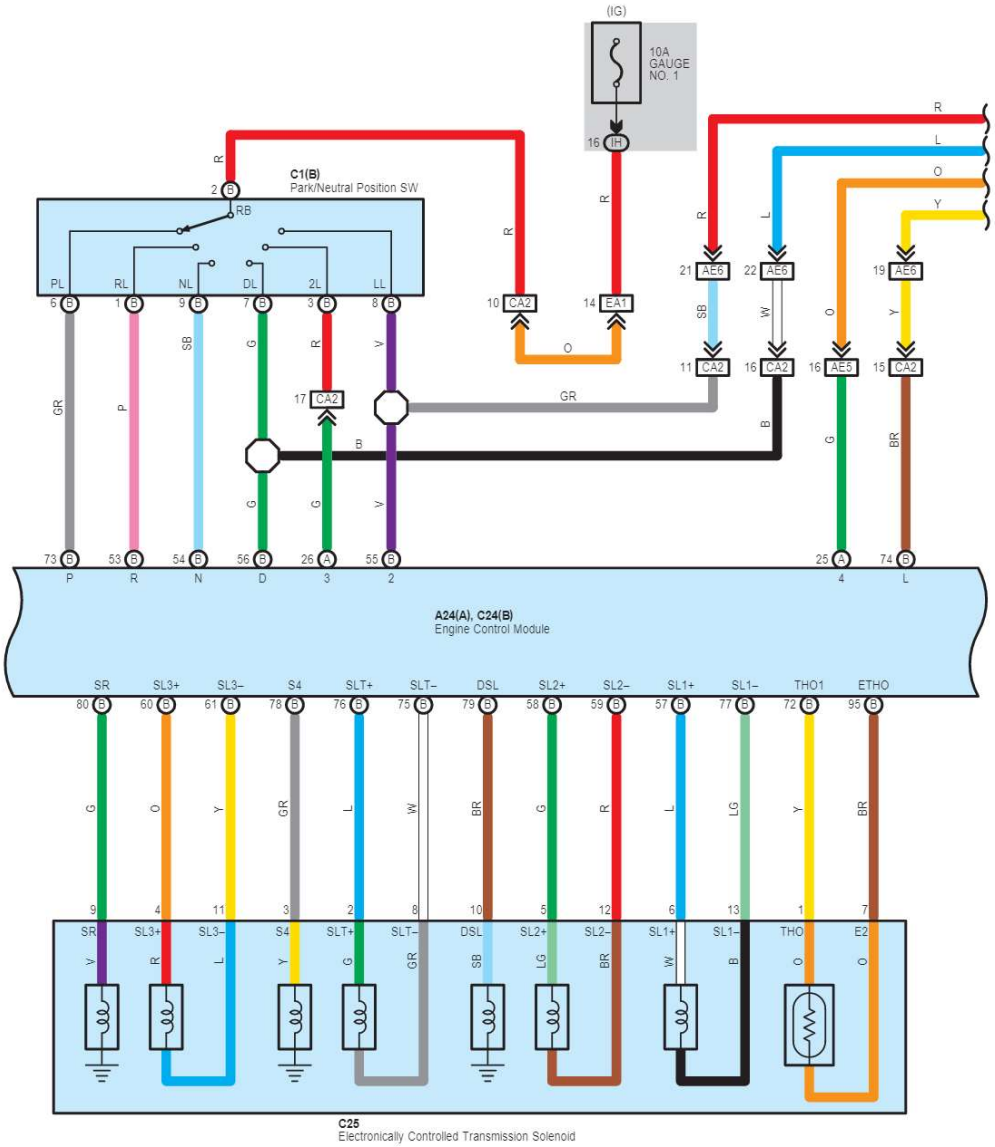
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

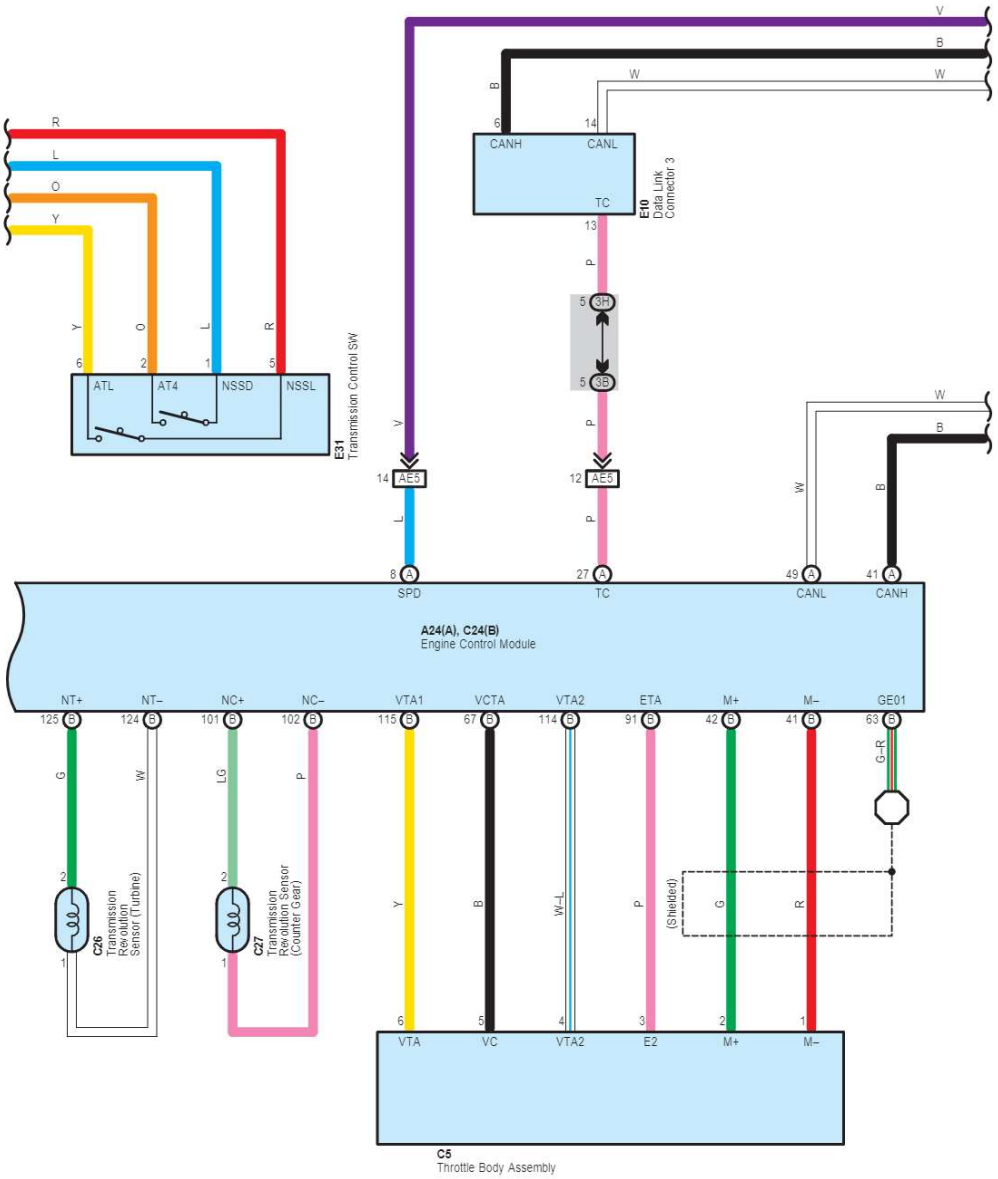
: **Ground Points**

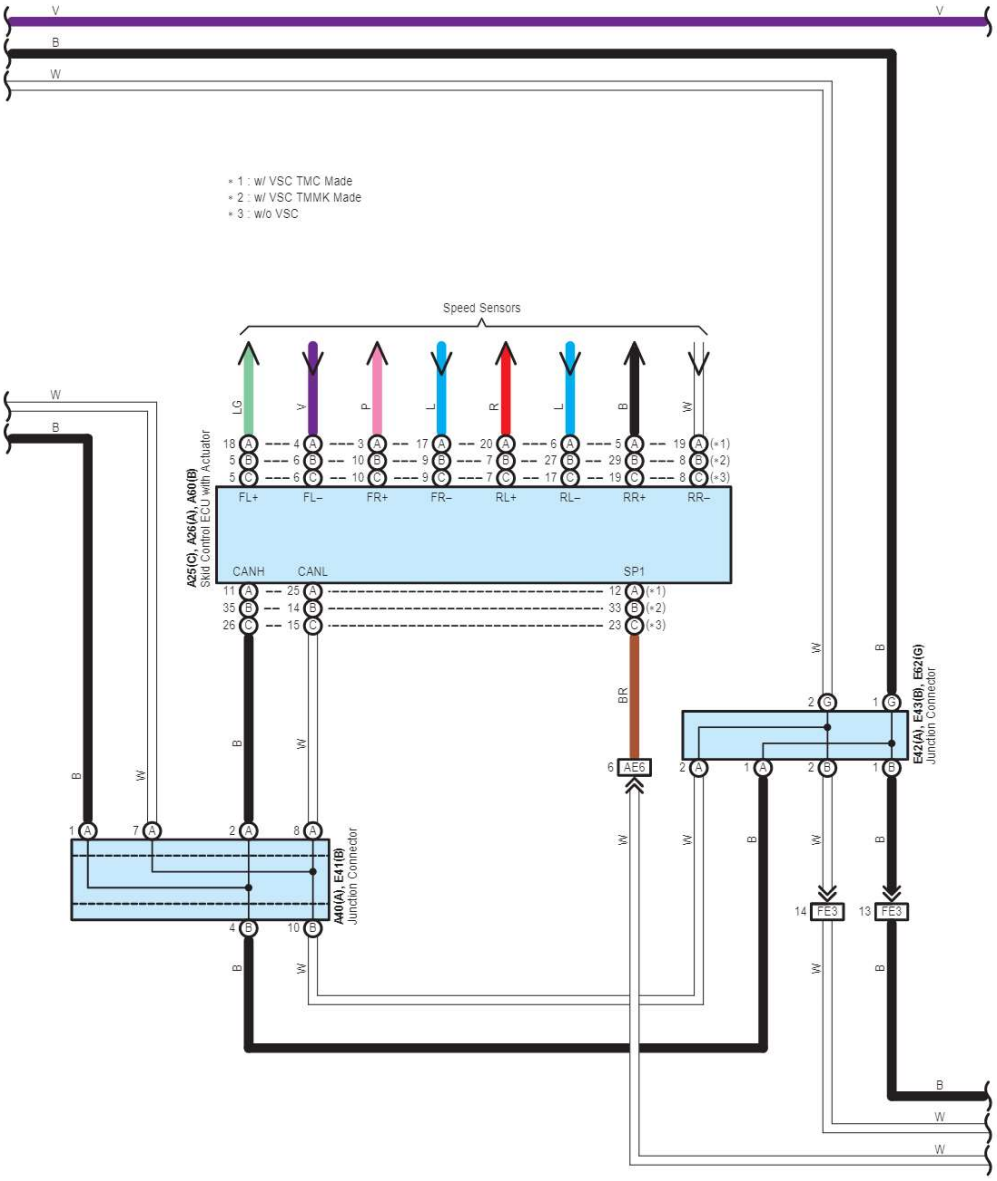
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
A2		
A3	66	Left Cowl Side Panel
C4	64 (2GR–FE)	Cylinder Head
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left

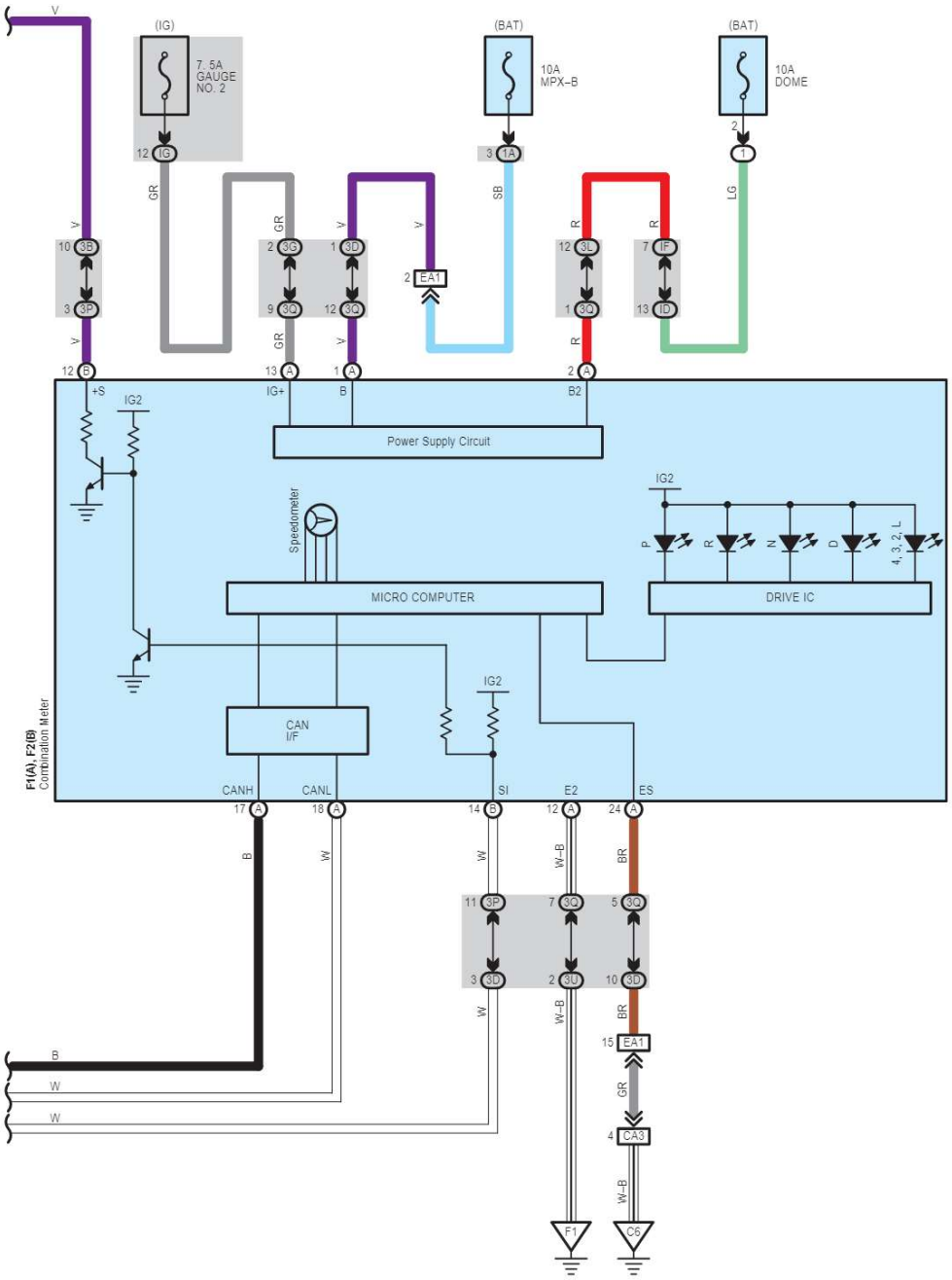

(BAT)
30A
EFI MAIN
(BAT)
10A
ETCS
(BAT)
10A
EFI
NO. 1
EFI
Relay
A41(A)
Junction
Connector
C4
Engine Coolant
Temp. Sensor
A24(A), C24(B)
Engine Control Module
+BM
BATT
THW
ETHW
MREL
+B
+B2
10A
EFI
NO. 3
15A
EFI
NO. 2
A41(A), A42(B)
Junction Connector
CA2
A1
A3


(BAT)
10A
STOP
(IG)
10A
IGN
A17
Accelerator Position Sensor
VCP2
VPA2
EPA2
VCPA
VPA
EPA
A19
Stop Lamp SW
A58(A), E01(B)
Junction Connector
STP
ST1–
IGSW
A24(A), C24(B)
Engine Control Module
VG
E2G
THA
ETHA
E02
ME01
E03
E04
E01
E1
EC
EOM
C2
Mass Air Flow Meter
A41(A), A42(B)
Junction Connector
C4
C6
A3


(IG)
10A
GAUGE
NO. 1
16 IH
C1(B)
Park/Neutral Position SW
2 B
RB
PL
RL
NL
DL
2L
LL
6 B
1 B
9 B
7 B
3 B
8 B
10 CA2
14 EA1
21 AE6
22 AE6
19 AE6
11 CA2
16 CA2
16 AE5
15 CA2
17 CA2
73 B
53 B
54 B
56 B
26 A
55 B
25 A
74 B
P
R
N
D
3
2
4
L
A24(A), C24(B)
Engine Control Module
SR
SL3+
SL3–
S4
SLT+
SLT–
DSL
SL2+
SL2–
SL1+
SL1–
THO1
ETHO
80 B
60 B
61 B
78 B
76 B
75 B
79 B
58 B
59 B
57 B
77 B
72 B
95 B
9
4
11
3
2
8
10
5
12
6
13
1
7
SR
SL3+
SL3–
S4
SLT+
SLT–
DSL
SL2+
SL2–
SL1+
SL1–
THO
E2
C25
Electronically Controlled Transmission Solenoid


V
B
W
W
B
6
14
CANH
CANL
TC
E10
Data Link
Connector 3
13
P
5
3H
5
3B
R
L
O
Y
Y
O
L
R
6
2
1
5
ATL
AT4
NSSD
NSSL
E31
Transmission Control SW
V
14
AE5
12
AE5
L
P
P
W
B
W
B
8
A
27
A
49
A
41
A
SPD
TC
CANL
CANH
A24(A), C24(B)
Engine Control Module
NT+
NT–
NC+
NC–
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
125
B
124
B
101
B
102
B
115
B
67
B
114
B
91
B
42
B
41
B
63
B
G
W
LG
P
Y
B
W–L
P
G
R
G–R
2
2
1
1
C26
Transmission
Revolution
Sensor (Turbine)
C27
Transmission
Revolution Sensor
(Counter Gear)
(Shielded)
6
5
4
3
2
1
VTA
VC
VTA2
E2
M+
M–
C5
Throttle Body Assembly


* 1 : w/ VSC TMC Made
* 2 : w/ VSC TMMK Made
* 3 : w/o VSC
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E52(G)
Junction Connector
AE6
FE3
FE3


(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
Power Supply Circuit
Speedometer
MICRO COMPUTER
DRIVE IC
CAN
I/F
F1(A), F2(B)
Combination Meter
CANH
CANL
SI
E2
ES

ECT and A/T Indicator for 2AZ–FE

System Outline

1. Line Pressure Optimal Control

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

2. Clutch Pressure Optimal Control

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

3. Shifting Control in Uphill/Downhill Traveling

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

4. Flex Lock–Up Clutch Control

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

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A17	59	A60 B	53 (2AZ–FE)	E10	56
A19	59	C1 B	54 (2AZ–FE)	E31	56
A24 A	52 (2AZ–FE)	C2	54 (2AZ–FE)	E40 B	57
A25 C	52 (2AZ–FE)	C4	54 (2AZ–FE)	E41 B	57
A26 A	52 (2AZ–FE)	C5	54 (2AZ–FE)	E42 A	57
A40 A	59	C24 B	55 (2AZ–FE)	E43 B	57
A41 A	59	C25	55 (2AZ–FE)	E62 G	57
A42 B	59	C26	55 (2AZ–FE)	F1 A	58
A58 A	59	C27	55 (2AZ–FE)	F2 B	58

: 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)
1E		
3B	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3F		
3G		
3H		
3K		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		

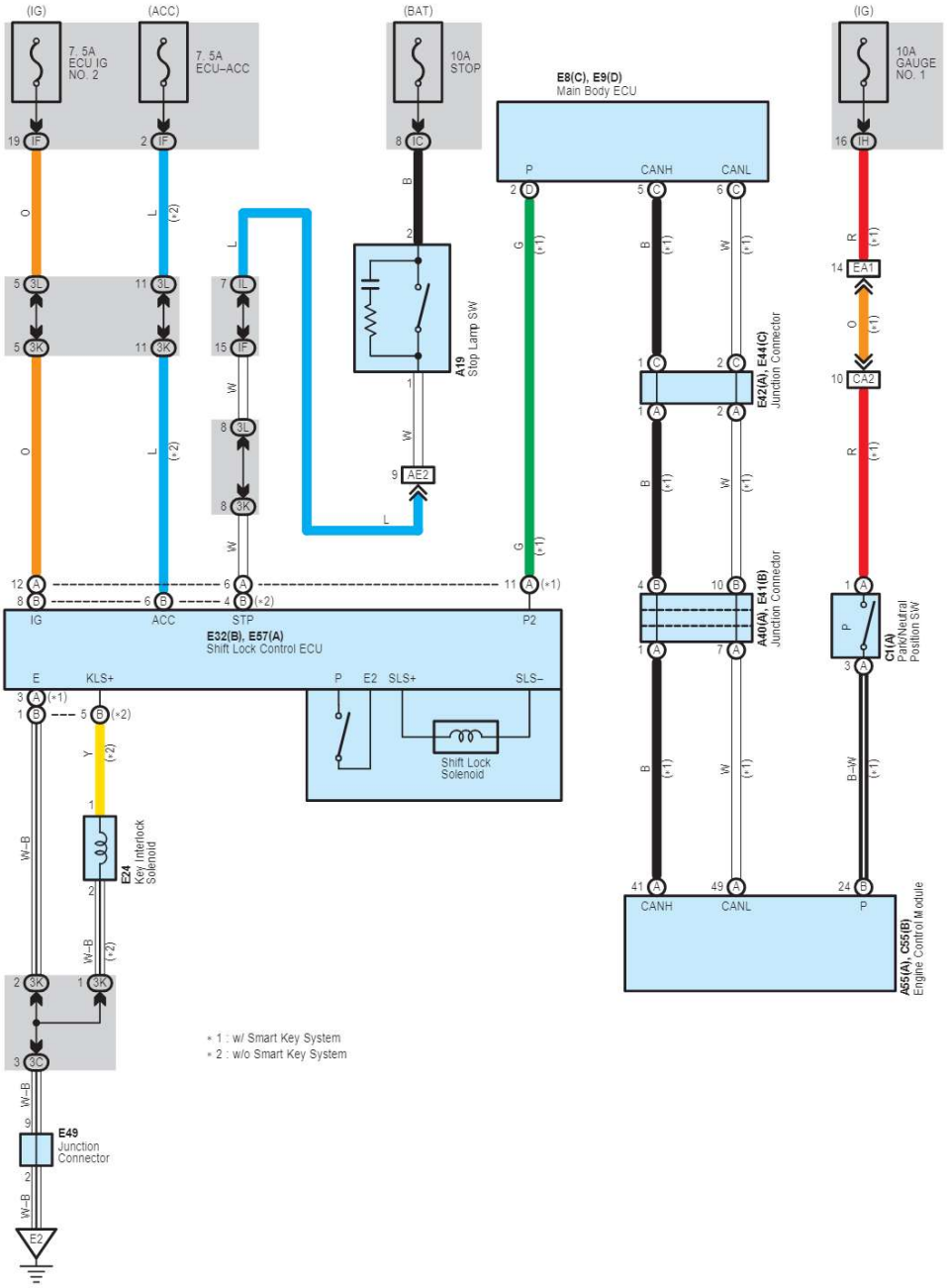
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
CA3		
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

: **Ground Points**

Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
A3	66	Left Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C6		
F1	66	Instrument Panel Left

Shift Lock


(IG)
(ACC)
(BAT)
(IG)
7.5A ECU IG NO. 2
7.5A ECU-ACC
10A STOP
10A GAUGE NO. 1
E8(C), E9(D) Main Body ECU
P
CANH
CANL
A19 Stop Lamp SW
E42(A), E44(C) Junction Connector
A40(A), E41(B) Junction Connector
C1(A) Park/Neutral Position SW
E32(B), E57(A) Shift Lock Control ECU
IG
ACC
STP
P2
E
KLS+
P
E2
SLS+
SLS–
Shift Lock Solenoid
E24 Key Interlock Solenoid
E49 Junction Connector
A55(A), C55(B) Engine Control Module
CANH
CANL
P
* 1 : w/ Smart Key System
* 2 : w/o Smart Key System

System Outline

Shift Lock Mechanism

If the brake pedal is depressed with the power SW is pushed to IG ON position (Power SW type), or the ignition SW is turned to ON (Ignition SW type), the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A19	A	59	C55	B	51 (2GR–FE)	E41	B	57
	B	59	E8	C	56	E42	A	57
A40	A	59	E9	D	56	E44	C	57
A55	A	49 (2GR–FE)	E24		56	E49		57
C1	A	50 (2GR–FE)	E32	B	56	E57	A	57

: Junction Block and Wire Harness Connector

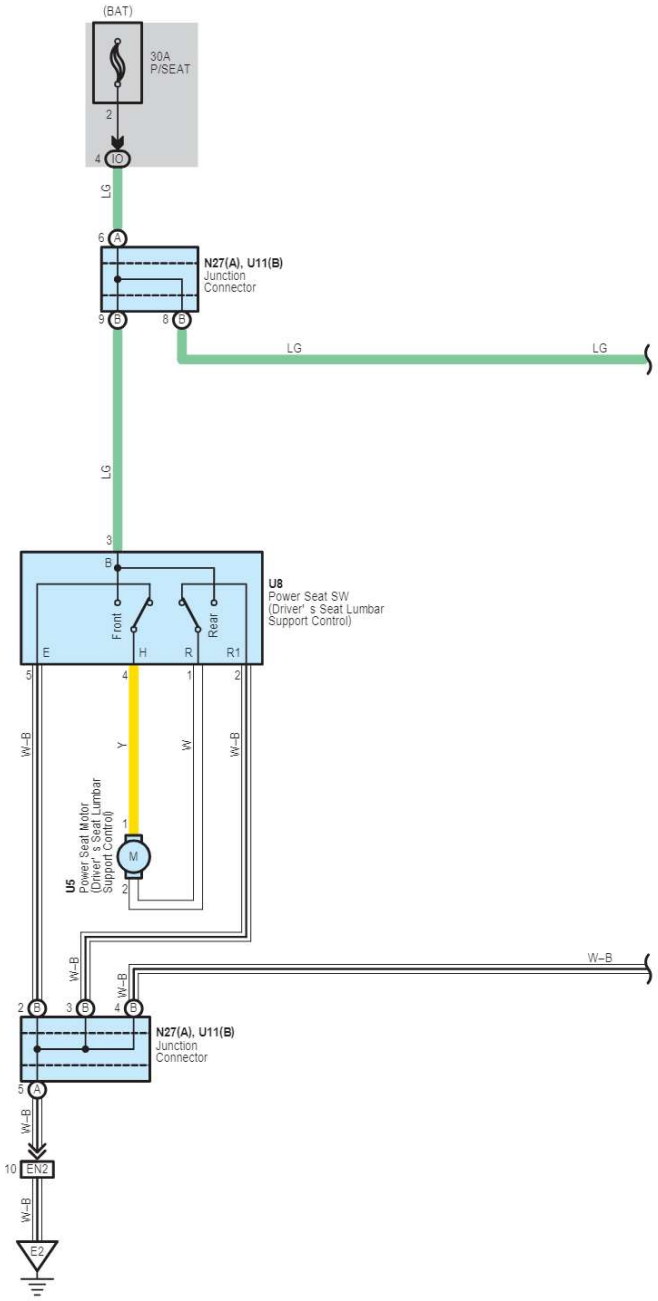
Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3K		
3L		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH	31	
IL	30	

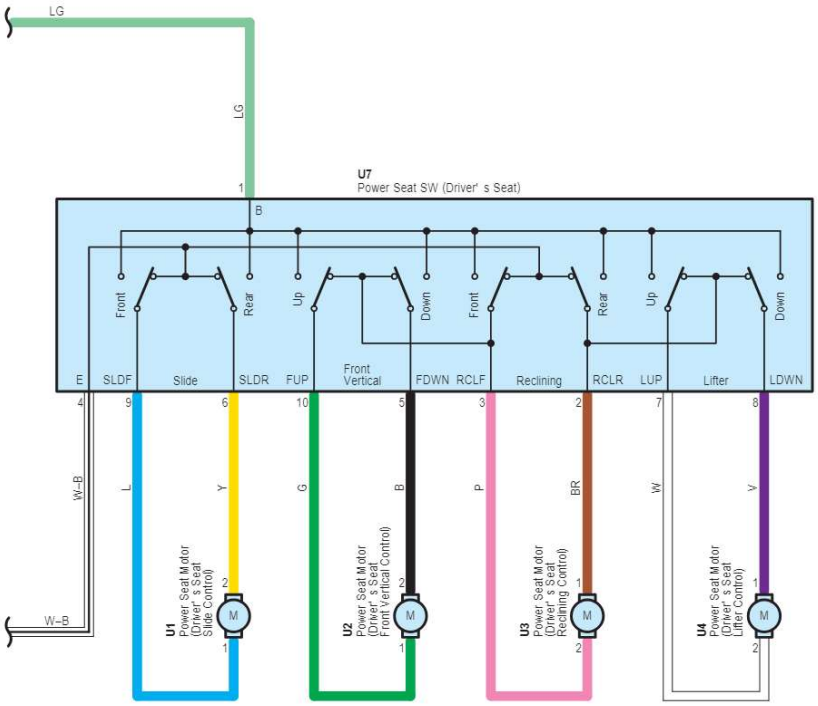
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH


(BAT)
30A
P/SEAT
2
4
IO
LG
6
A
N27(A), U11(B)
Junction
Connector
9
B
8
B
LG
LG
LG
3
B
U8
Power Seat SW
(Driver's Seat Lumbar
Support Control)
Front
Rear
E
H
R
R1
5
4
1
2
W-B
Y
W
W-B
U5
Power Seat Motor
(Driver's Seat Lumbar
Support Control)
M
1
2
W-B
W-B
W-B
2
E
3
B
4
B
N27(A), U11(B)
Junction
Connector
5
A
W-B
10
EN2
W-B
E2


LG
LG
1
U7
Power Seat SW (Driver' s Seat)
B
Front
Rear
Up
Down
Front
Rear
Up
Down
E
SLDF
Slide
SLDR
FUP
Front Vertical
FDWN
RCLF
Reclining
RCLR
LUP
Lifter
LDWN
4
9
6
10
5
3
2
7
8
W-B
L
Y
G
B
P
BR
W
Y
W-B
U1
Power Seat Motor (Driver' s Seat Slide Control)
U2
Power Seat Motor (Driver' s Seat Front Vertical Control)
U3
Power Seat Motor (Driver' s Seat Reclining Control)
U4
Power Seat Motor (Driver' s Seat Lifter Control)
M
2
1

Power Seat for Driver's Seat

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
N27 A	62 (*1)	U3	62 (*1)	U7	62 (*1)
U1	62 (*1)	U4	62 (*1)	U8	62 (*1)
U2	62 (*1)	U5	62 (*1)	U11 B	62 (*1)

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

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

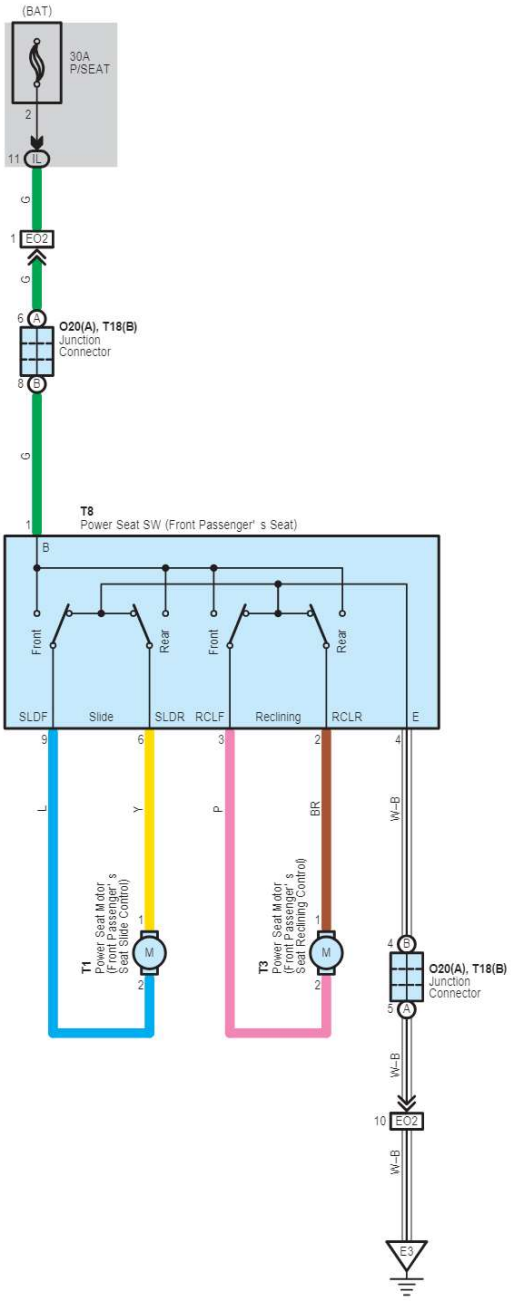
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH

* 1 : w/ Power Seat * 2 : w/o Power Seat

Power Seat for Front Passenger's Seat



○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
O20	A	62 (*1)	T3	62 (*1)	T18	B	62 (*1)
T1		62 (*1)	T8	62 (*1)			

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

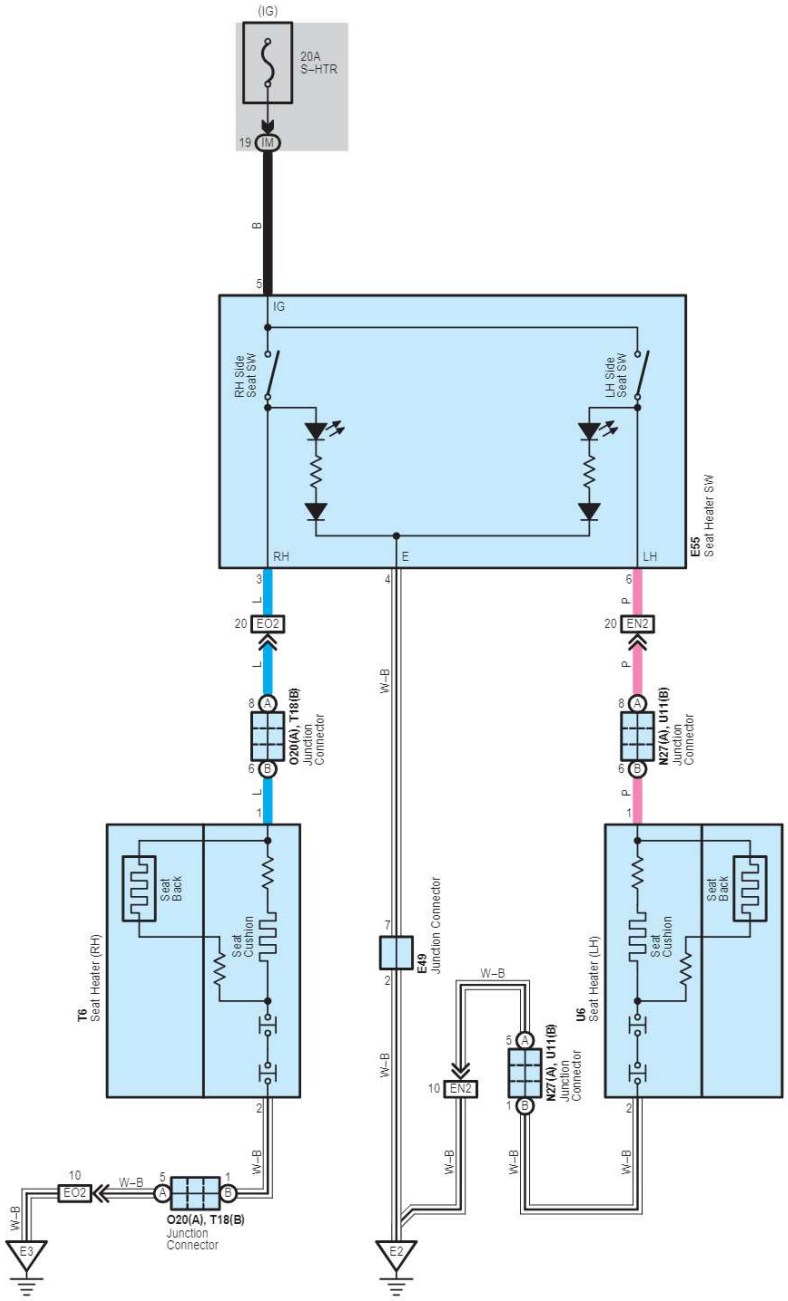
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
E3	66	Instrument Panel Right

* 1 : w/ Power Seat * 2 : w/o Power Seat


(IG)
20A
S-HTR
19
IM
B
5
IG
RH Side
Seat SW
LH Side
Seat SW
E55
Seat Heater SW
RH
E
LH
3
L
20
EO2
4
6
P
20
EN2
W-B
8
A
6
B
O20(A), T18(B)
Junction
Connector
N27(A), U11(B)
Junction
Connector
T6
Seat Heater (RH)
Seat
Back
Seat
Cushion
U6
Seat Heater (LH)
E49
Junction Connector
10
EO2
5
1
E3
E2
10
EN2

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E49	57	O20 A	62 (*1)	U6	62 (*1)
E55	57	T6	62 (*1)	U11 B	62 (*1)
N27 A	62 (*1)	T18 B	62 (*1)		

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IM	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

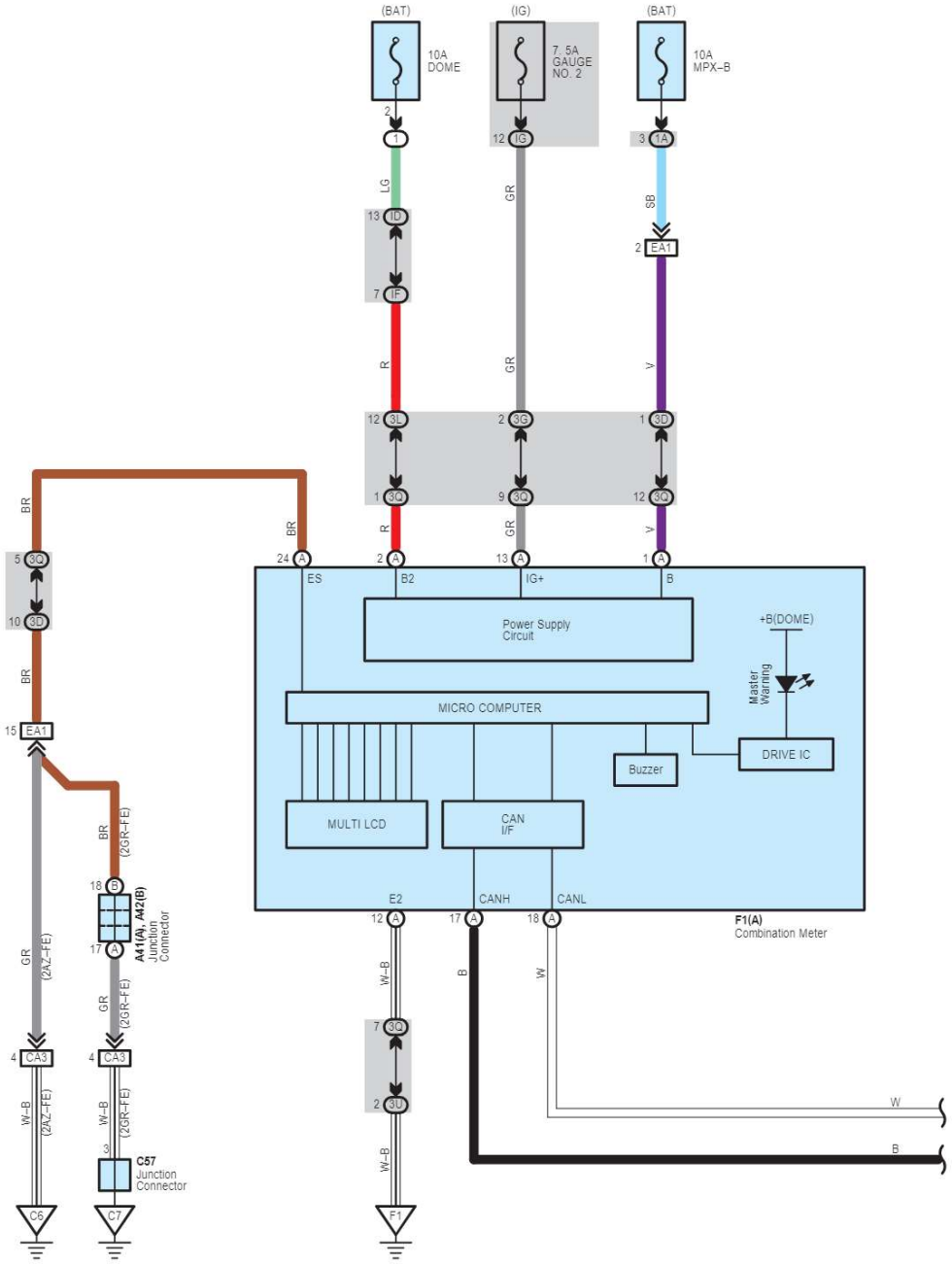
: **Connector Joining Wire Harness and Wire Harness**

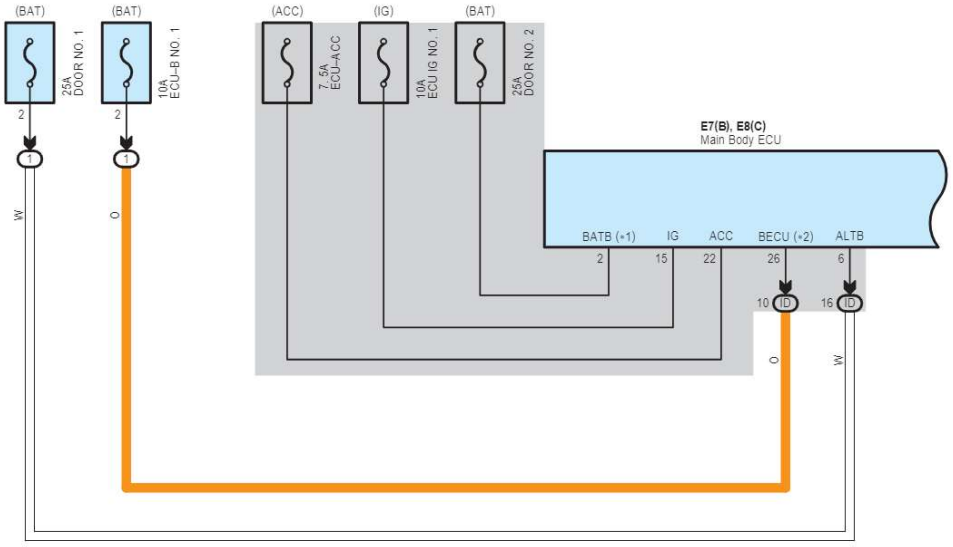
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
E3	66	Instrument Panel Right

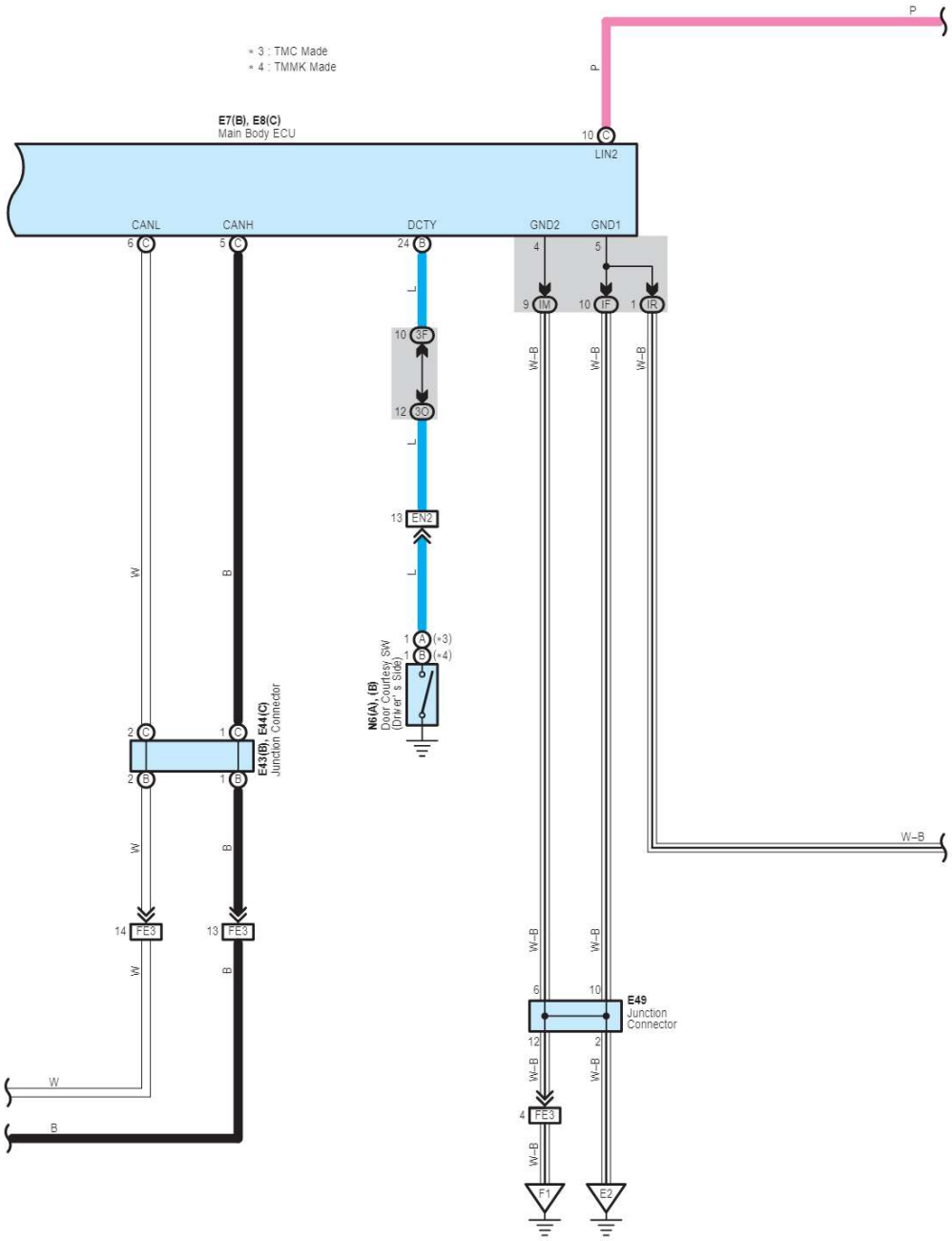
* 1 : w/ Power Seat * 2 : w/o Power Seat

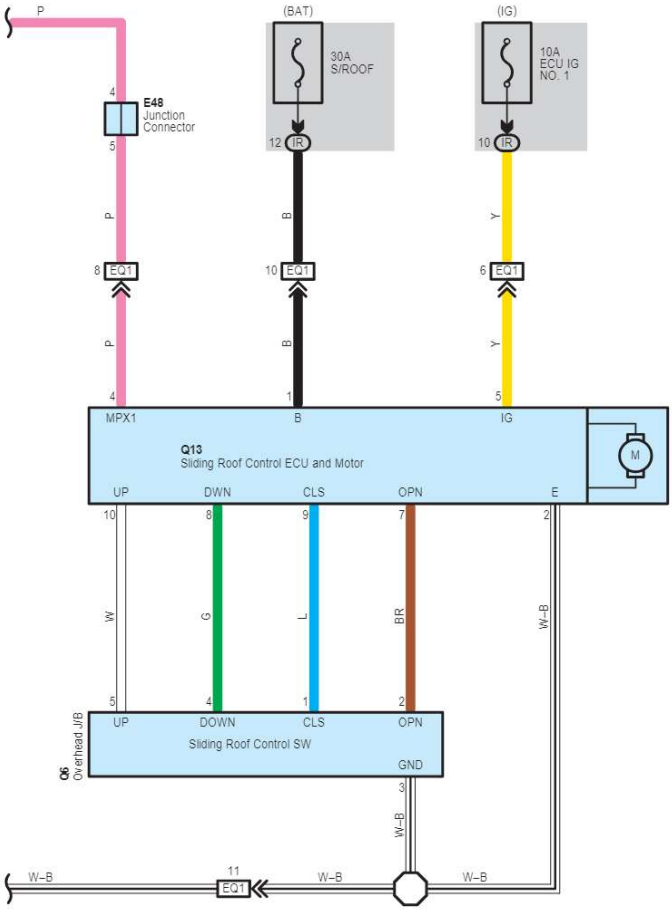

(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX-B
LG
GR
SB
R
GR
V
BR
BR
R
GR
V
ES
B2
IG+
B
Power Supply
Circuit
+B(DOME)
Master
Warning
MICRO COMPUTER
DRIVE IC
Buzzer
MULTI LCD
CAN
I/F
E2
CANH
CANL
F1(A)
Combination Meter
A41(A), A42(B)
Junction
Connector
C57
Junction
Connector
W-B
(2AZ-FE)
W-B
(2GR-FE)
GR
(2AZ-FE)
GR
(2GR-FE)
BR
(2GR-FE)
W
B
W-B
C6
C7
F1



* 1 : w/ Smart Key System
* 2 : w/o Smart Key System




* 3 : TMC Made
* 4 : TMMK Made
E7(B), E8(C)
Main Body ECU
LIN2
CANL
CANH
DCTY
GND2
GND1
3F
3O
EN2
N6(A), (B)
Door Courtesy SW
(Driver's Side)
E43(B), E44(C)
Junction Connector
E49
Junction
Connector
FE3
IM
IF
IR
F1
E2
W
B
W-B
L
P


P
(BAT)
(IG)
30A
S/ROOF
10A
ECU IG
NO. 1
E48
Junction
Connector
4
5
12
IR
10
IR
P
B
Y
8
EQ1
10
EQ1
6
EQ1
P
B
Y
4
1
5
MPX1
B
IG
Q13
Sliding Roof Control ECU and Motor
M
UP
DWN
CLS
OPN
E
10
8
9
7
2
W
G
L
BR
W-B
5
4
1
2
UP
DOWN
CLS
OPN
Sliding Roof Control SW
Overhead J/B
Q6
GND
3
W-B
W-B
11
EQ1
W-B
W-B

Sliding Roof

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A41	A	59	E43	B	57	N6	A	60
A42	B	59	E44	C	57		B	60
C57		51 (2GR–FE)	E48		57	Q6		61
E7	B	56	E49		57	Q13		61
E8	C	56	F1	A	58			

▭ : **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**

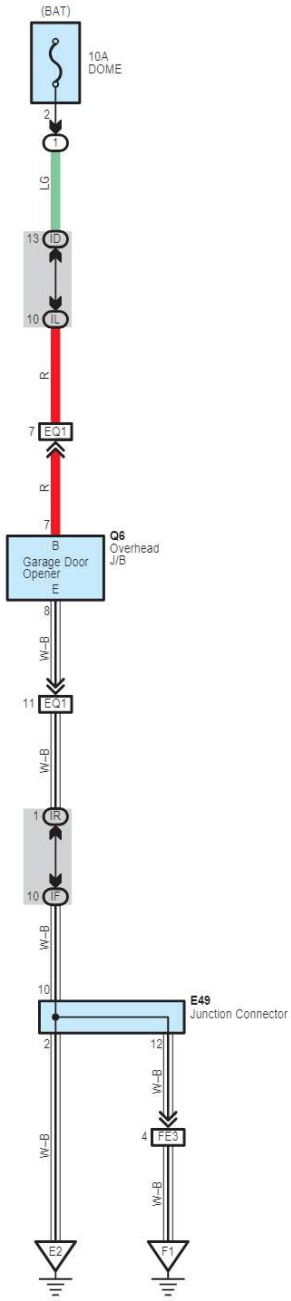
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
3G		
3L		
3O		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IM	30	
IR		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

▽ : **Ground Points**

Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left


(BAT)
10A
DOME
2
1
LG
13 ID
10 IL
R
7 EQ1
R
7
B
Garage Door
Opener
E
Q6
Overhead
J/B
8
W–B
11 EQ1
W–B
1 IR
10 IF
W–B
10
E49
Junction Connector
2
12
W–B
4 FE3
W–B
W–B
E2
F1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E49	57	Q6	61		

⬭ : **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**

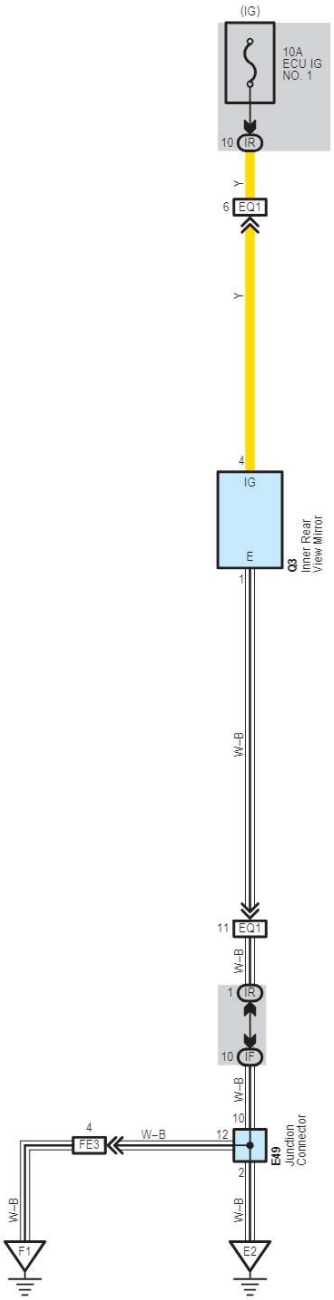
Code	See Page	Junction Block and Wire Harness (Connector Location)
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IL		
IR		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left


(IG)
10A
ECU IG
NO. 1
10
IR
Y
6
EQ1
Y
4
IG
m
Q3
Inner Rear
View Mirror
1
W–B
11
EQ1
W–B
1
IR
10
IF
W–B
10
12
E49
Junction
Connector
2
4
FE3
W–B
W–B
W–B
E1
E2

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E49	57	Q3	61		

: **Junction Block and Wire Harness Connector**

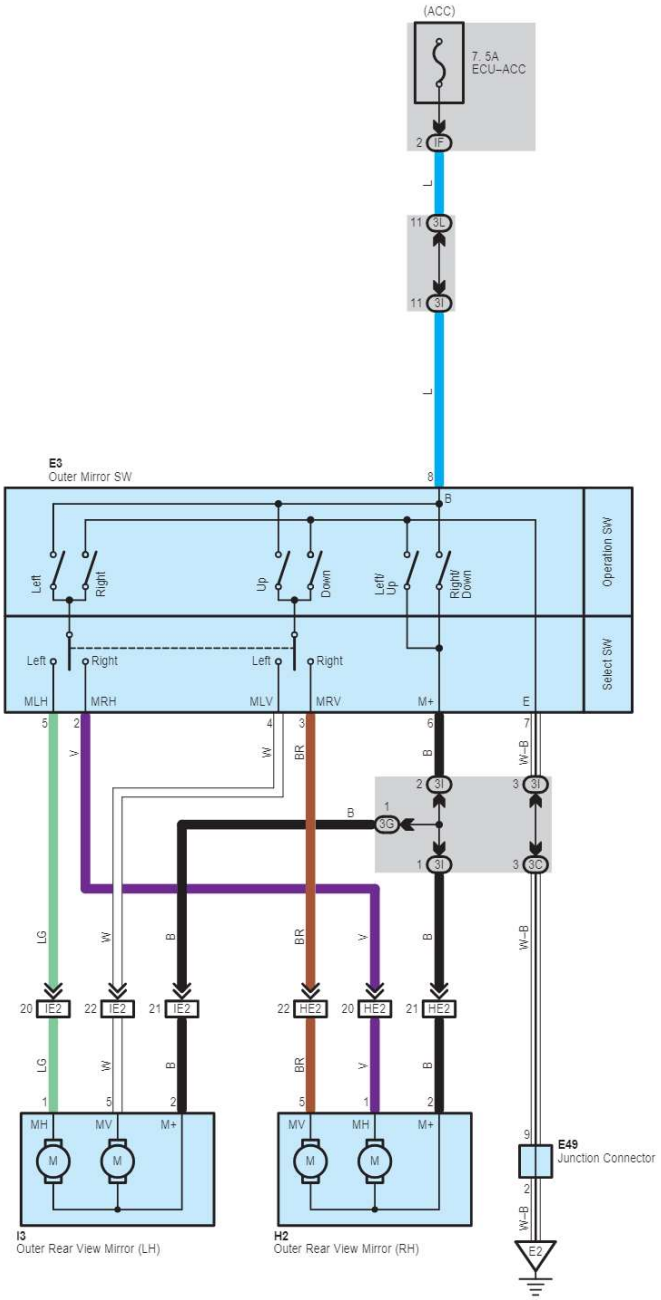
Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IR		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

: **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left


(ACC)
7.5A
ECU-ACC
2 IF
L
11 3L
11 3I
L
E3
Outer Mirror SW
8
B
Operation SW
Select SW
Left
Right
Up
Down
Left/ Up
Right/ Down
Left
Right
Left
Right
MLH
MRH
MLV
MRV
M+
E
5
2
4
3
6
7
V
W
BR
B
W-B
2 3I
3 3I
B
1 3G
1 3I
3 3C
LG
W
B
BR
V
B
W-B
20 IE2
22 IE2
21 IE2
22 HE2
20 HE2
21 HE2
LG
W
B
BR
V
B
1
5
2
5
1
2
MH
MV
M+
MV
MH
M+
M
M
M
M
9
E49
Junction Connector
2
W-B
E2
I3
Outer Rear View Mirror (LH)
H2
Outer Rear View Mirror (RH)

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E3	56	H2	61		
E49	57	I3	61		

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3G		
3I		
3L		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

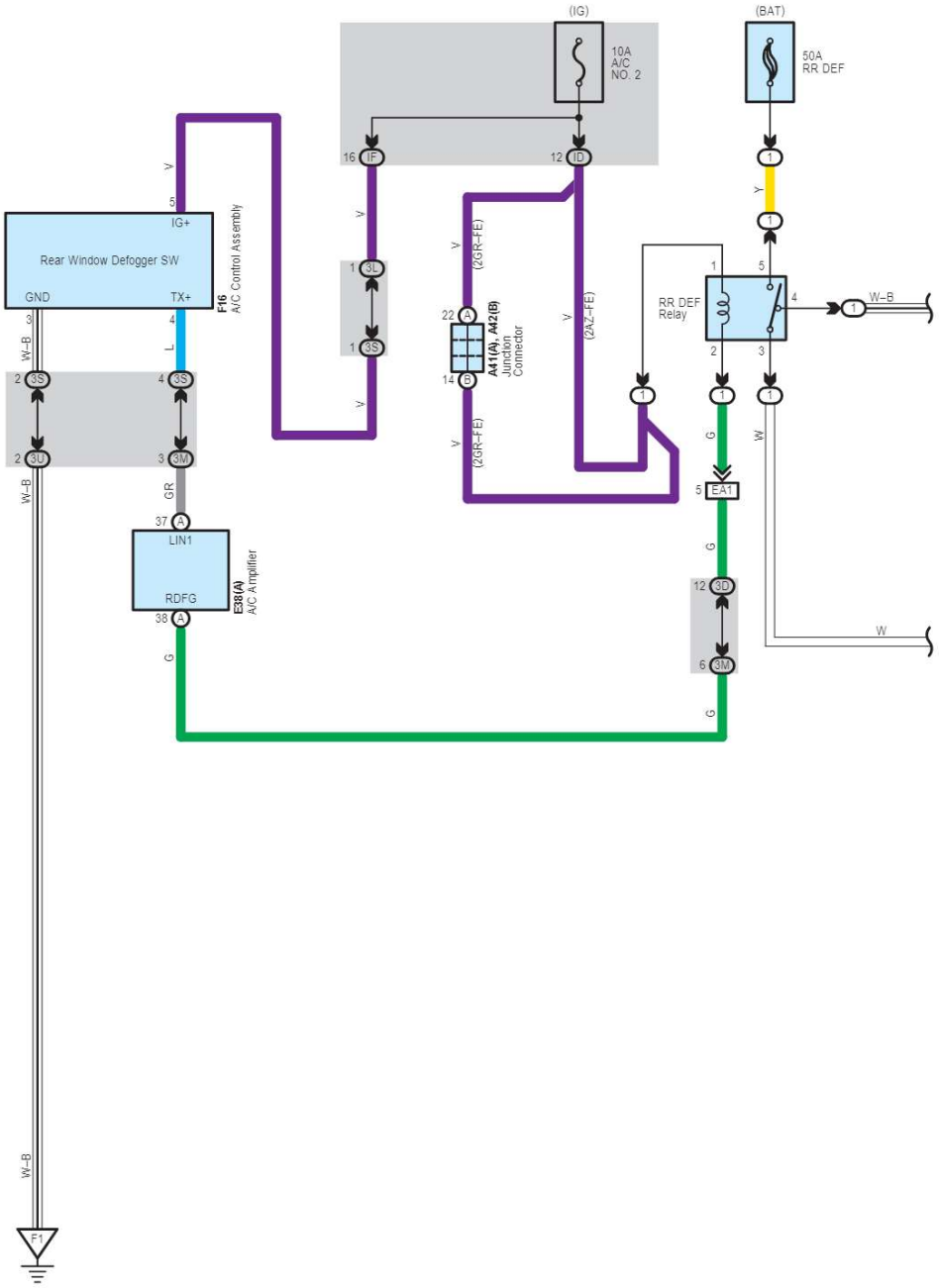
▭ : **Connector Joining Wire Harness and Wire Harness**

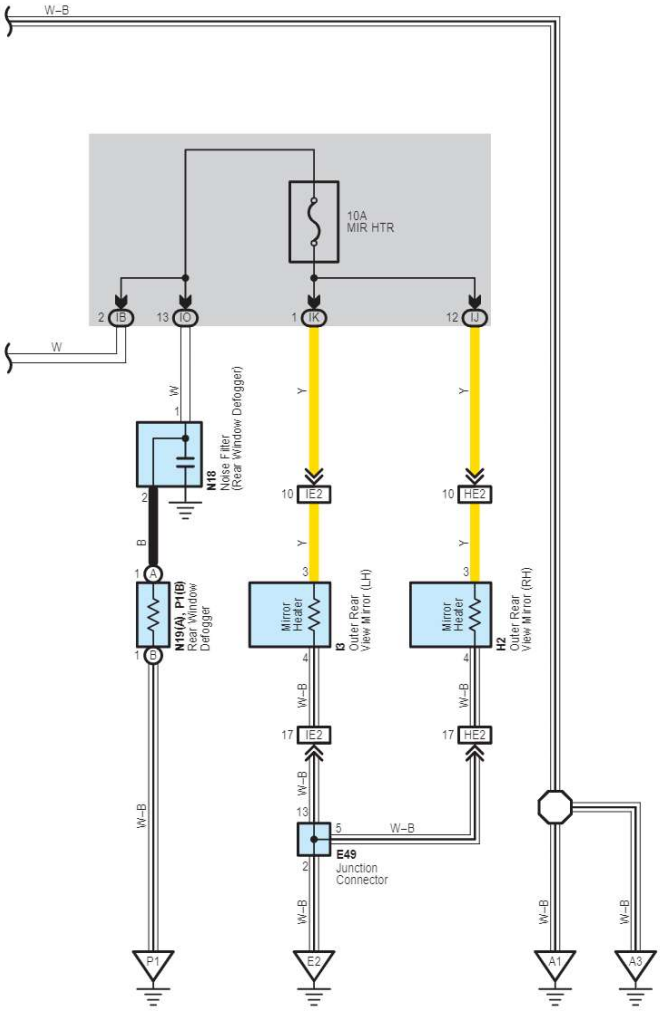
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
HE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	66	Instrument Panel Brace LH

Rear Window Defogger and Mirror Heater




W-B
10A
MIR HTR
2 IB
13 IC
1 IK
12 IJ
W
W
1
N18
Noise Filter
(Rear Window Defogger)
2
B
1 A
N19(A), P1(B)
Rear Window
Defogger
1 B
Y
10 IE2
3
Mirror
Heater
E
Outer Rear
View Mirror (LH)
4
W-B
17 IE2
W-B
13
5
W-B
E49
Junction
Connector
2
W-B
P1
E2
Y
10 HE2
3
Mirror
Heater
H2
Outer Rear
View Mirror (RH)
4
W-B
17 HE2
W-B
A1
W-B
A3

Rear Window Defogger and Mirror Heater

: Parts Location

Code		See Page	Code	See Page	Code		See Page
A41	A	59	F16	58	N19	A	60
A42	B	59	H2	61	P1	B	60
E38	A	57	I3	61			
E49		57	N18	60			

: 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

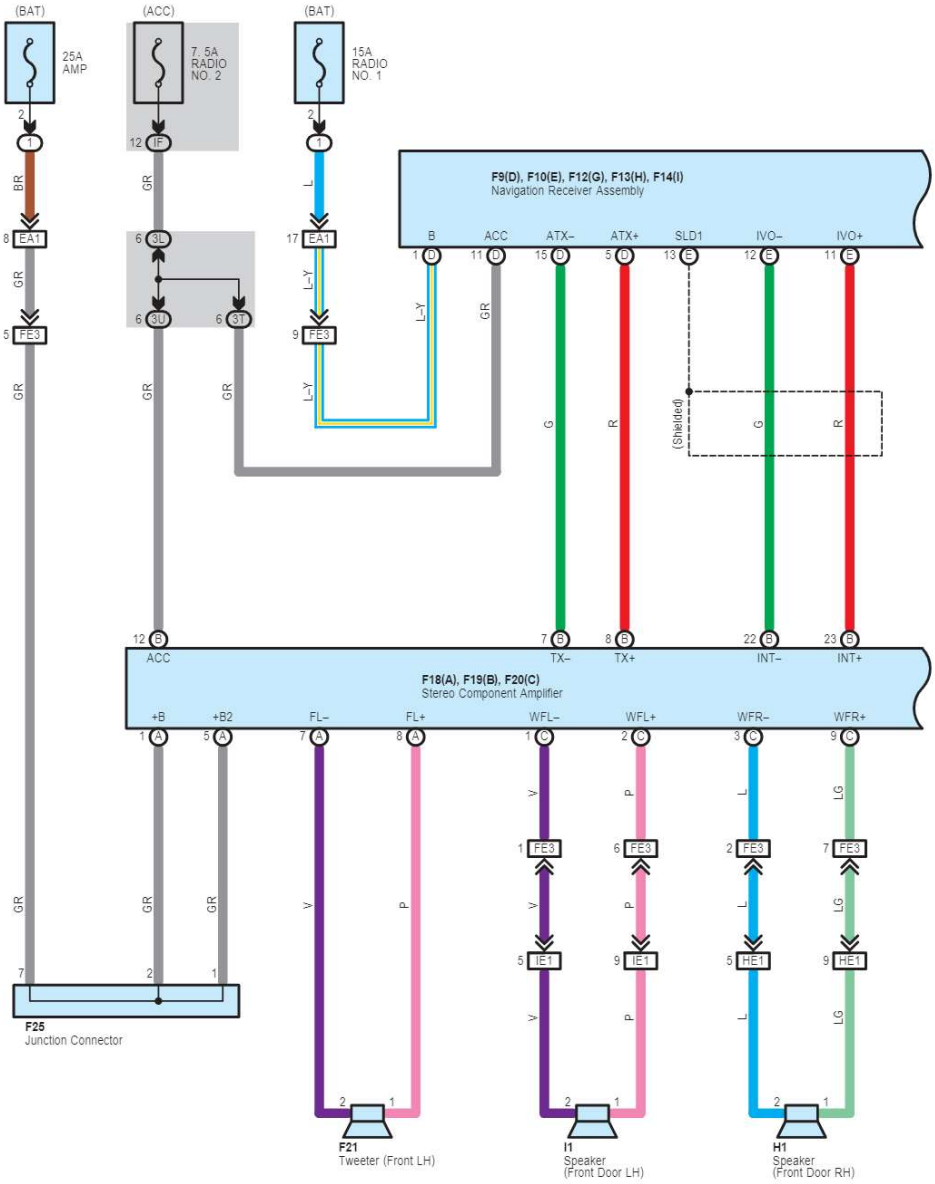
Code	See Page	Junction Block and Wire Harness (Connector Location)
3D	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3L		
3M		
3S	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IJ		
IK		
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

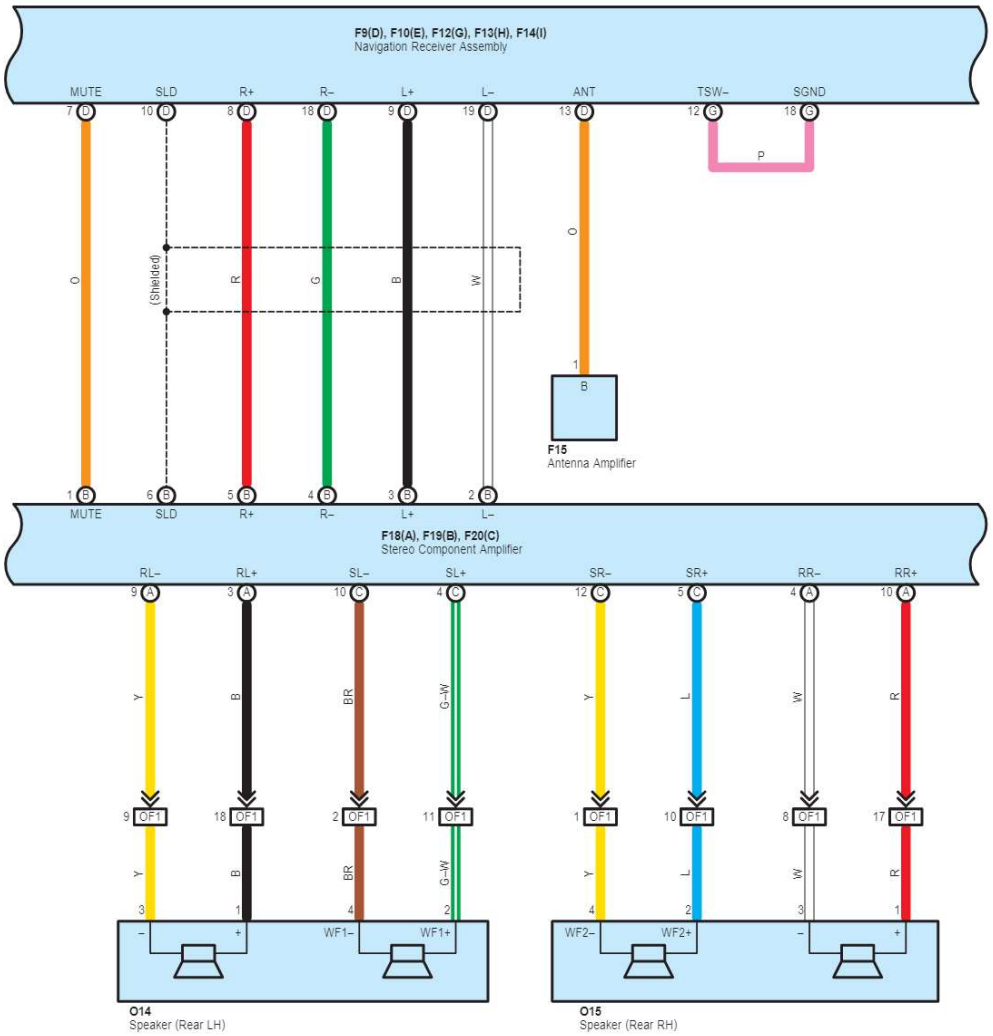
: Connector Joining Wire Harness and Wire Harness

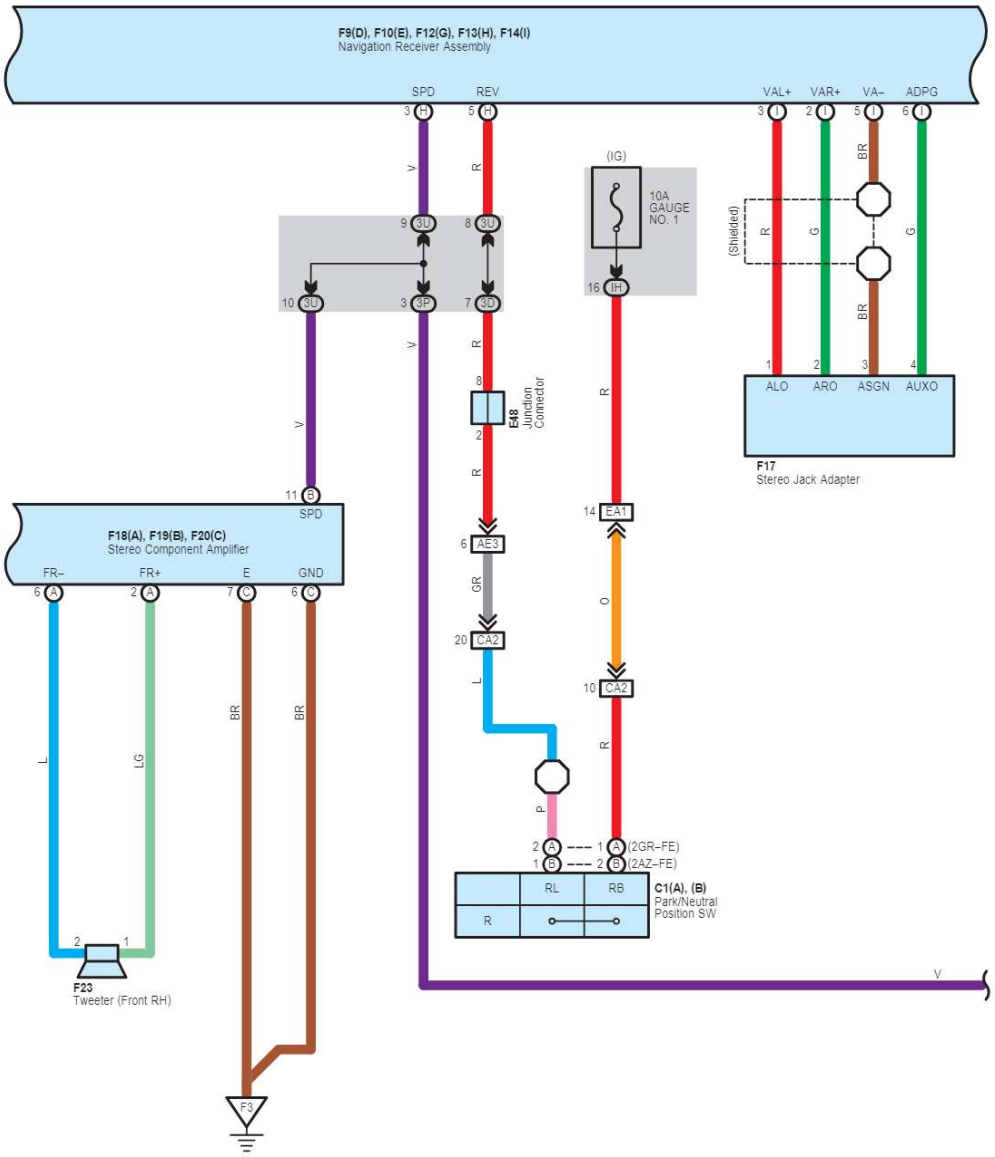
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
HE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

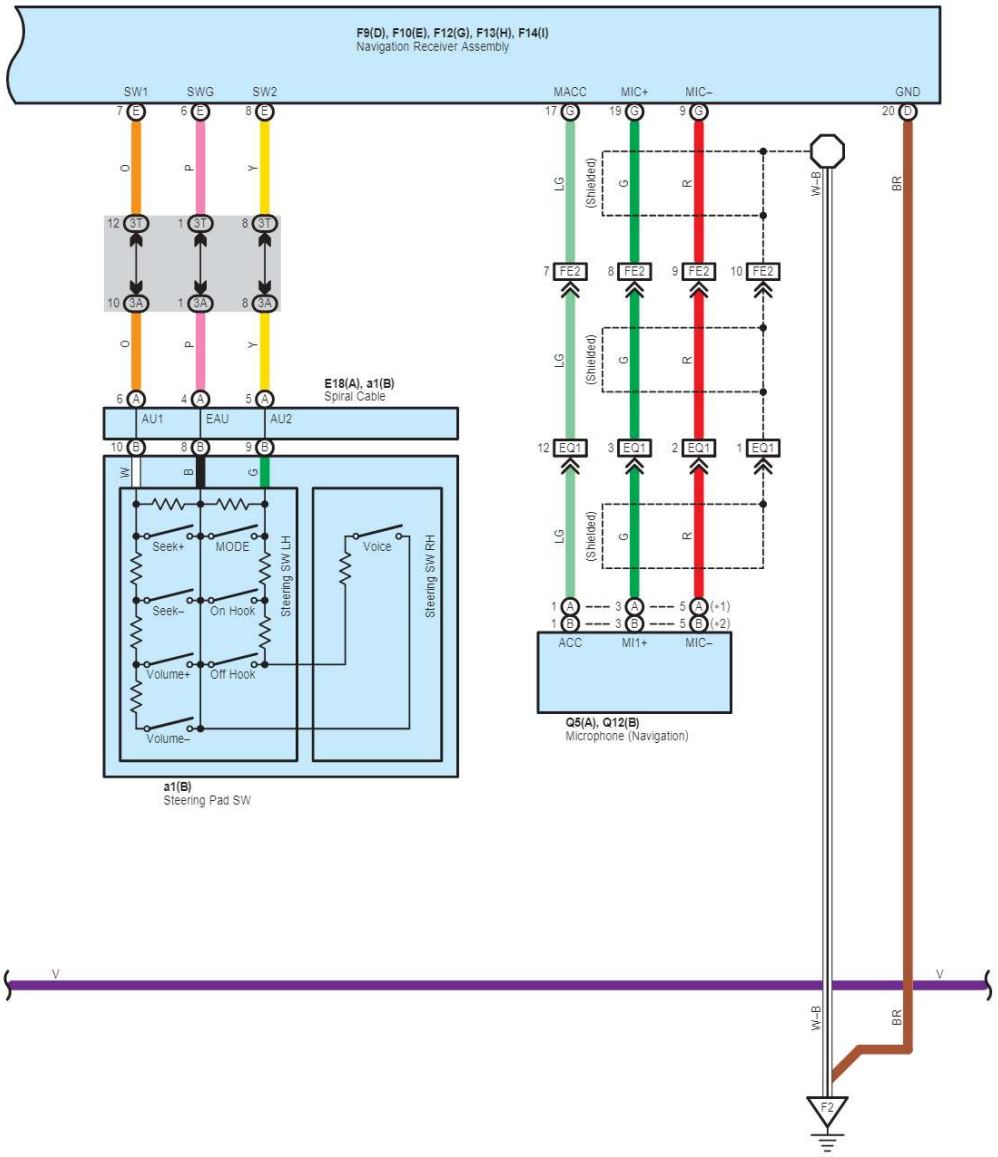
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
E2	66	Instrument Panel Brace LH
F1	66	Instrument Panel Left
P1	67	Right Rear Quarter Panel

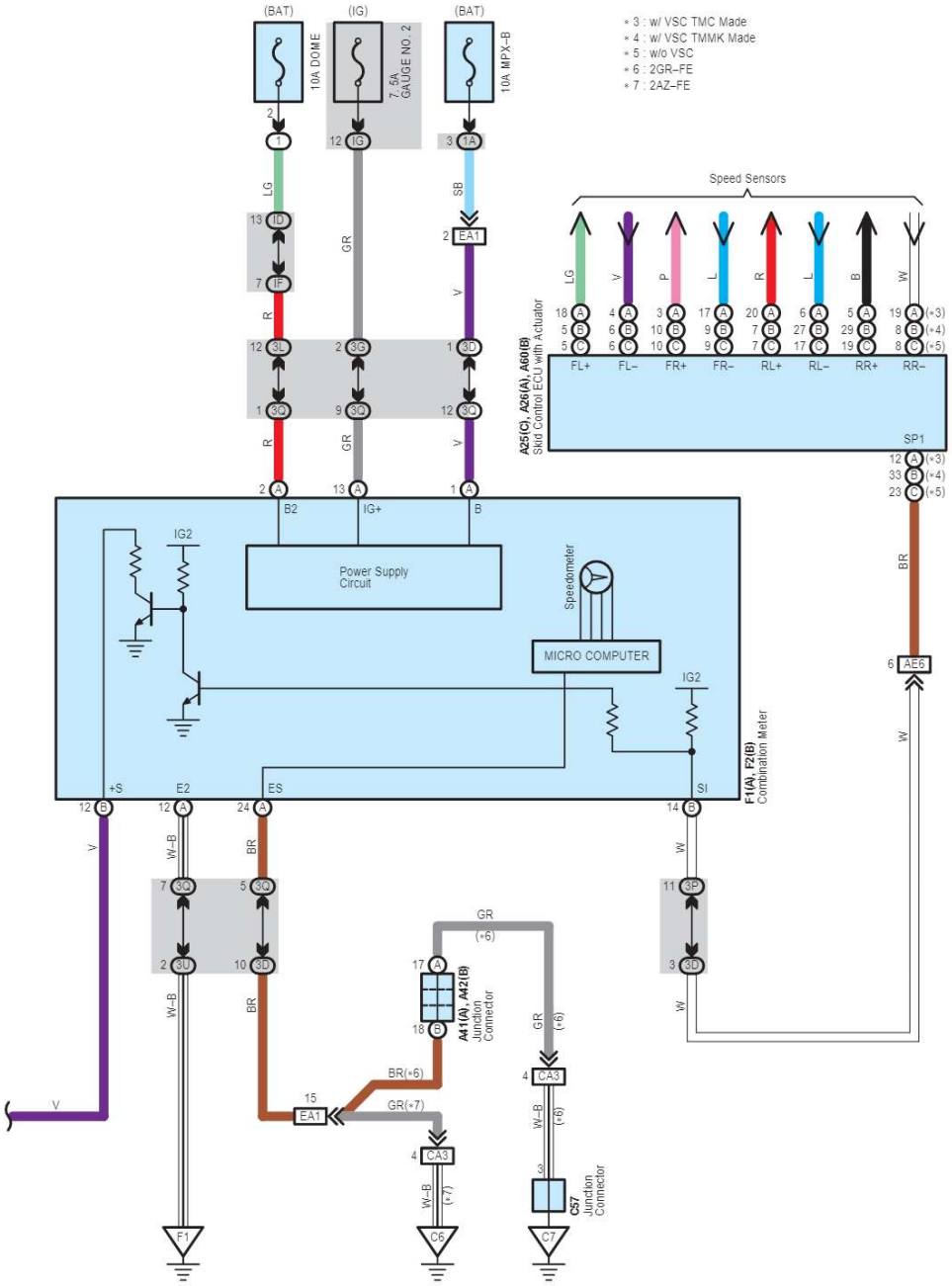

(BAT)
25A AMP
(ACC)
7.5A RADIO NO. 2
(BAT)
15A RADIO NO. 1
F9(D), F10(E), F12(G), F13(H), F14(I)
Navigation Receiver Assembly
B
ACC
ATX–
ATX+
SLD1
IVO–
IVO+
(Shielded)
F18(A), F19(B), F20(C)
Stereo Component Amplifier
+B
+B2
FL–
FL+
WFL–
WFL+
WFR–
WFR+
TX–
TX+
INT–
INT+
F25
Junction Connector
F21
Tweeter (Front LH)
I1
Speaker
(Front Door LH)
H1
Speaker
(Front Door RH)


F9(D), F10(E), F12(G), F13(H), F14(I)
Navigation Receiver Assembly
MUTE
SLD
R+
R–
L+
L–
ANT
TSW–
SGND
(Shielded)
F15
Antenna Amplifier
F18(A), F19(B), F20(C)
Stereo Component Amplifier
RL–
RL+
SL–
SL+
SR–
SR+
RR–
RR+
WF1–
WF1+
WF2–
WF2+
O14
Speaker (Rear LH)
O15
Speaker (Rear RH)


F9(D), F10(E), F12(G), F13(H), F14(I)
Navigation Receiver Assembly
SPD
REV
VAL+
VAR+
VA–
ADPG
(IG)
10A
GAUGE
NO. 1
(Shielded)
ALO
ARO
ASGN
AUXO
F17
Stereo Jack Adapter
E48
Junction
Connector
F18(A), F19(B), F20(C)
Stereo Component Amplifier
FR–
FR+
E
GND
F23
Tweeter (Front RH)
F3
C1(A), (B)
Park/Neutral
Position SW
RL
RB
R
(2GR–FE)
(2AZ–FE)

* 1 : TMC Made
* 2 : TMMK Made




(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
* 6 : 2GR-FE
* 7 : 2AZ-FE
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
SP1
IG2
Power Supply Circuit
Speedometer
MICRO COMPUTER
B2
IG+
B
+S
E2
ES
SI
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction Connector
C57
Junction Connector
F1
C6
C7

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	C	48 (2GR–FE)	E48		57	F20	C	58
		52 (2AZ–FE)	F1	A	58	F21		58
A26	A	48 (2GR–FE)	F2	B	58	F23		58
		52 (2AZ–FE)	F9	D	58	F25		58
A41	A	59	F10	E	58	H1		61
A42	B	59	F12	G	58	I1		61
A60	B	49 (2GR–FE)	F13	H	58	O14		60
		53 (2AZ–FE)	F14	I	58	O15		60
C1	A	50 (2GR–FE)	F15		58	Q5	A	61
	B	54 (2AZ–FE)	F17		58	Q12	B	61
C57		51 (2GR–FE)	F18	A	58	a1	B	59
E18	A	56	F19	B	58			

⬭ : 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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3T		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		

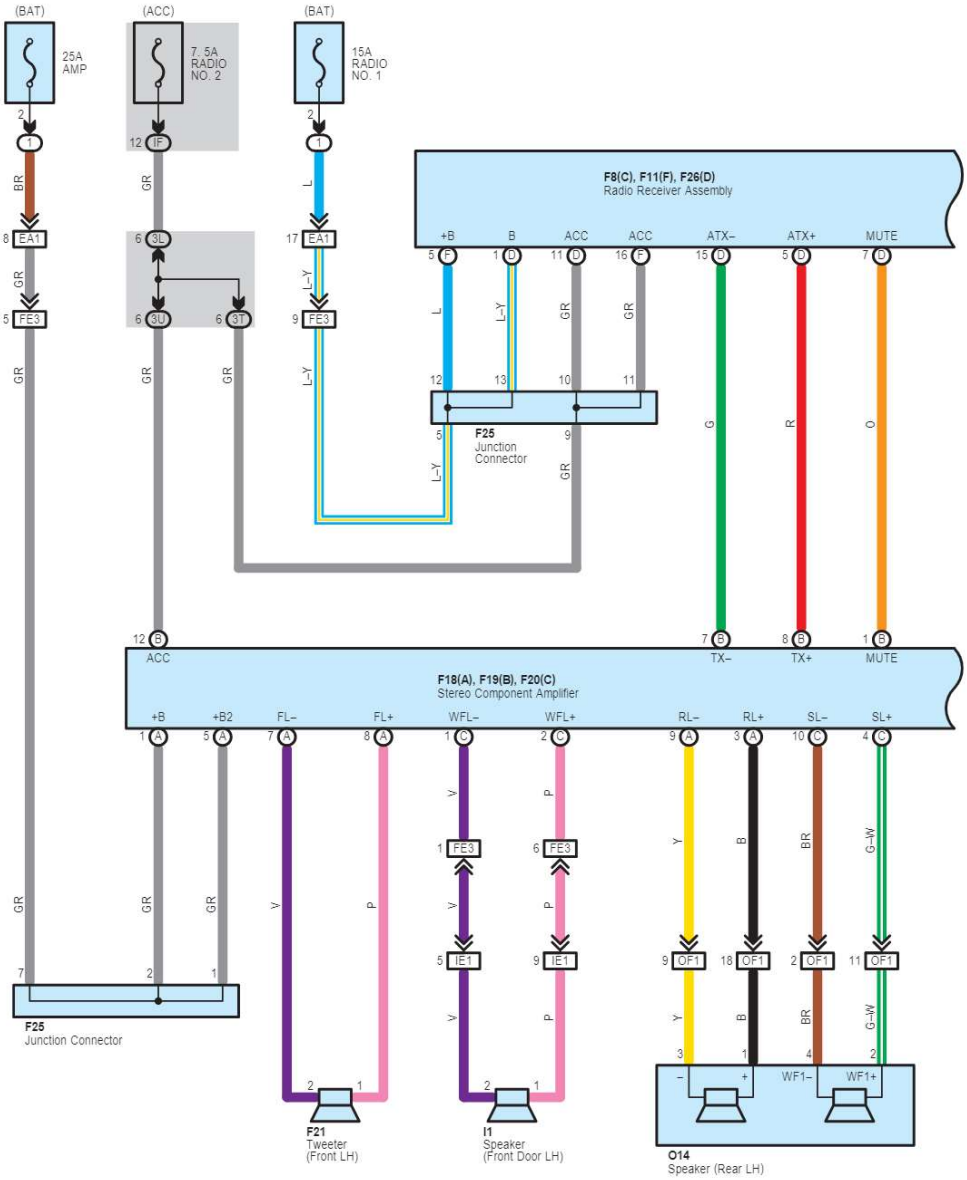
▭ : Connector Joining Wire Harness and Wire Harness

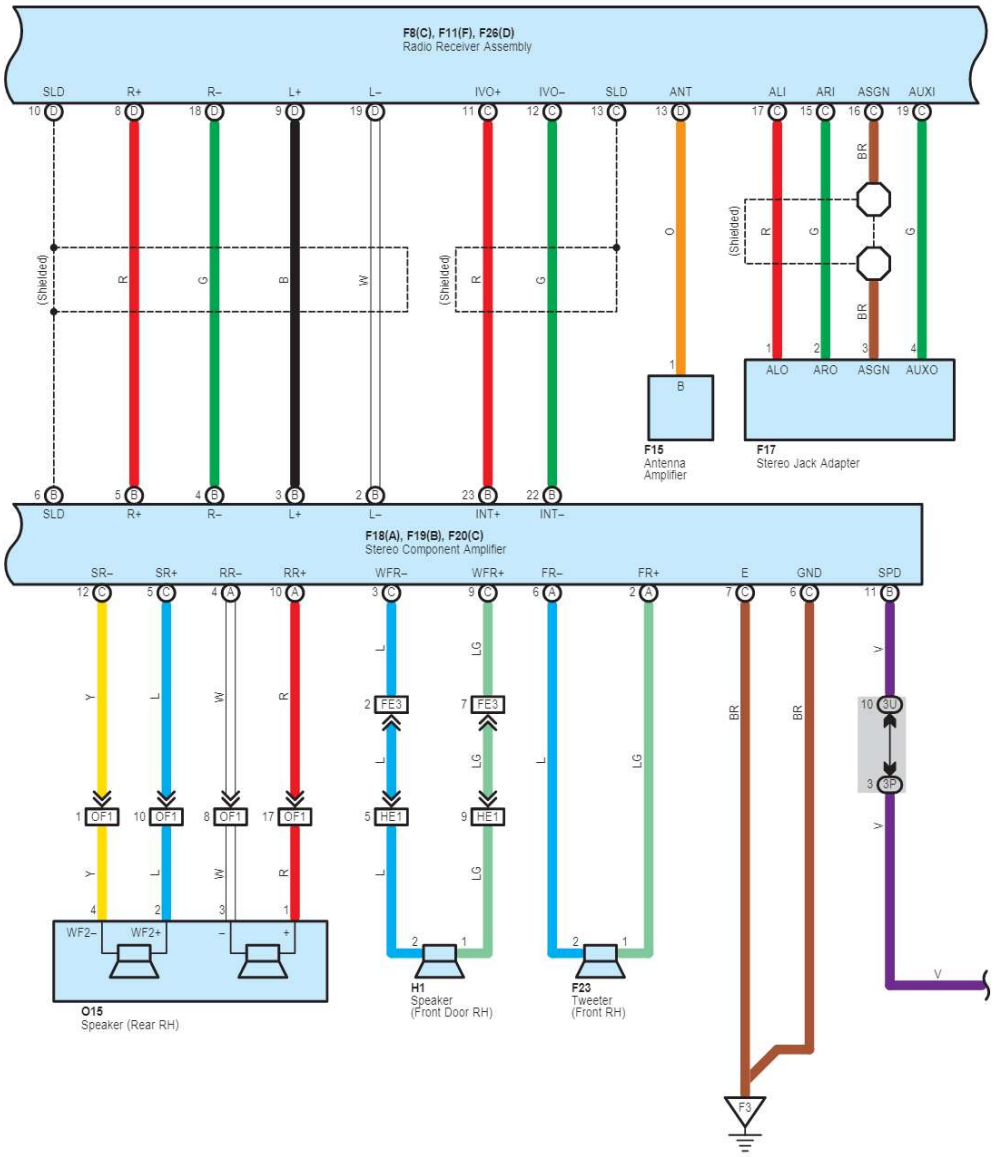
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA2	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE2	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
FE3		
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
OF1	66	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Right)

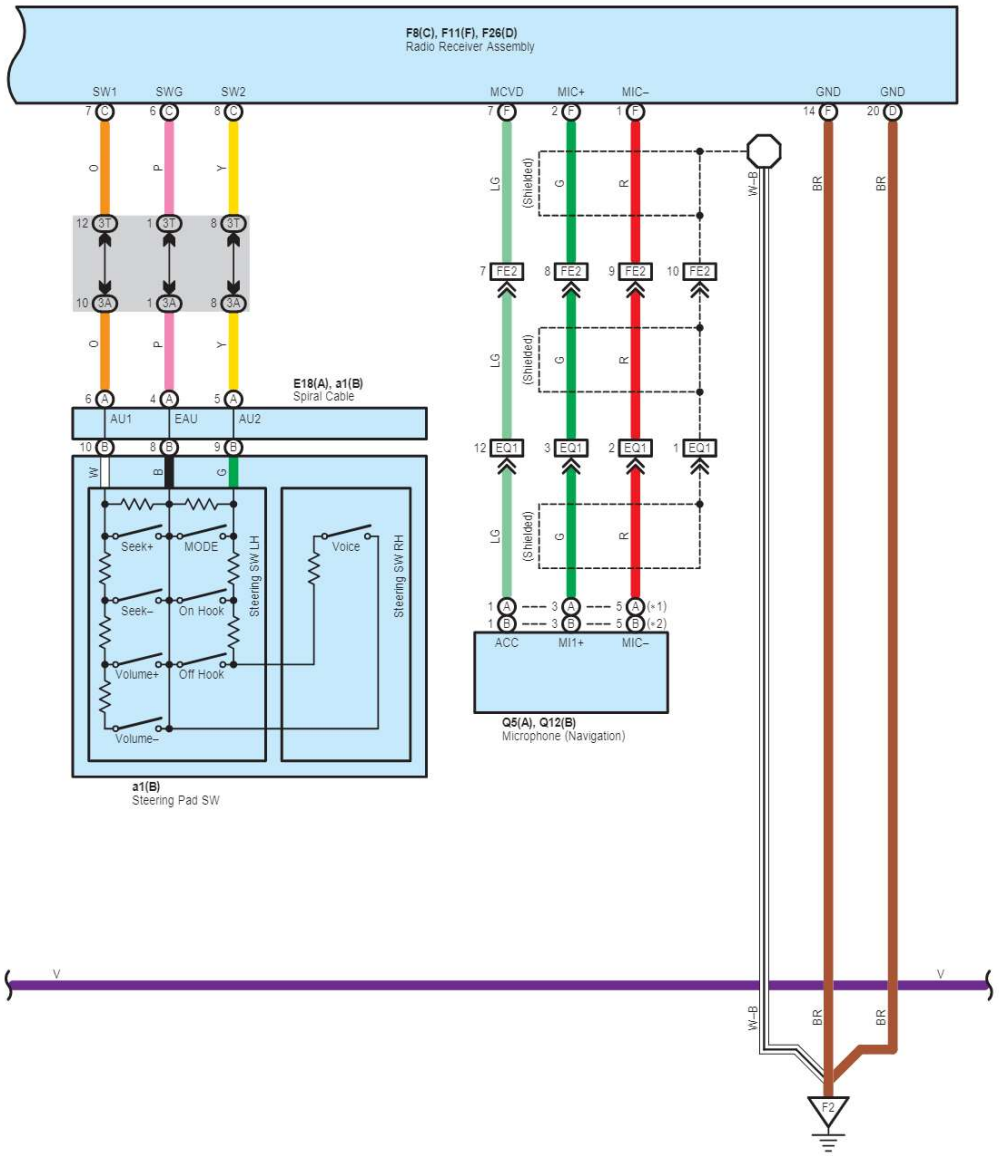
▽ : **Ground Points**

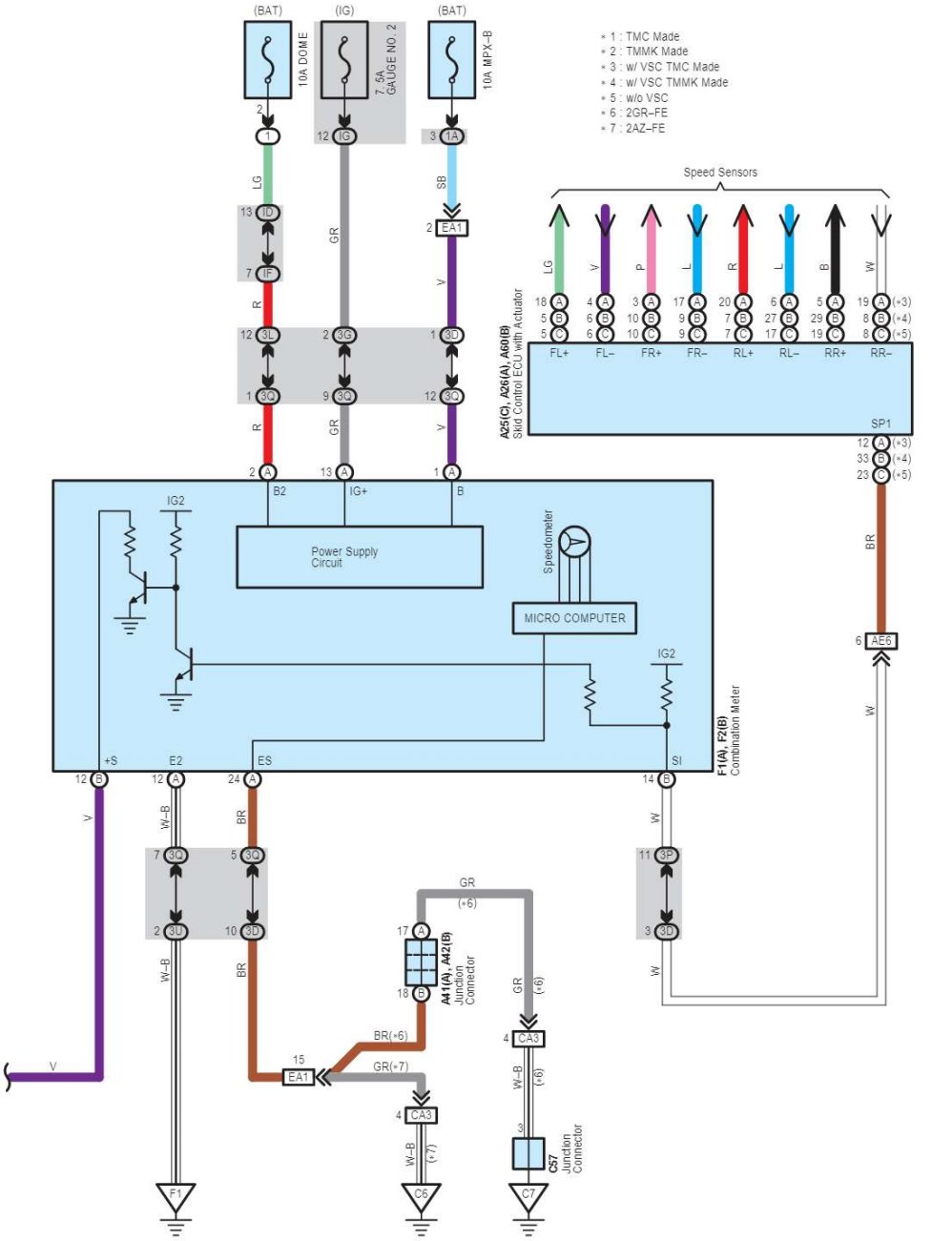
Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left
F2	66	Instrument Panel Brace RH
F3	66	Under the Front Passenger's Seat

Audio System with 8 Speaker without Navigation




F8(C), F11(F), F26(D)
Radio Receiver Assembly
SLD
R+
R–
L+
L–
IVO+
IVO–
SLD
ANT
ALI
ARI
ASGN
AUXI
(Shielded)
F15
Antenna Amplifier
F17
Stereo Jack Adapter
ALO
ARO
ASGN
AUXO
F18(A), F19(B), F20(C)
Stereo Component Amplifier
SR–
SR+
RR–
RR+
WFR–
WFR+
FR–
FR+
E
GND
SPD
INT+
INT–
O15
Speaker (Rear RH)
WF2–
WF2+
H1
Speaker
(Front Door RH)
F23
Tweeter
(Front RH)
FE3
HE1
OF1
3U
3P
F3


F8(C), F11(F), F26(D)
Radio Receiver Assembly
SW1
SWG
SW2
MCVD
MIC+
MIC–
GND
GND
E18(A), a1(B)
Spiral Cable
AU1
EAU
AU2
Seek+
MODE
Seek–
On Hook
Volume+
Off Hook
Volume–
Voice
Steering SW LH
Steering SW RH
a1(B)
Steering Pad SW
Q5(A), Q12(B)
Microphone (Navigation)
ACC
MI1+
MIC–
(Shielded)
W–B
BR
F2


(BAT)
(IG)
(BAT)
10A DOME
7.5A GAUGE NO. 2
10A MPX–B
* 1 : TMC Made
* 2 : TMMK Made
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
* 6 : 2GR–FE
* 7 : 2AZ–FE
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
Power Supply Circuit
MICRO COMPUTER
Speedometer
IG2
B2
IG+
B
+S
E2
ES
SI
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction Connector
C57
Junction Connector
F1
C6
C7

Audio System with 8 Speaker without Navigation

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	C	48 (2GR–FE)	F1	A	58	F23		58
		52 (2AZ–FE)	F2	B	58	F25		58
A26	A	48 (2GR–FE)	F8	C	58	F26	D	58
		52 (2AZ–FE)	F11	F	58	H1		61
A41	A	59	F15		58	I1		61
A42	B	59	F17		58	O14		60
A60	B	49 (2GR–FE)	F18	A	58	O15		60
		53 (2AZ–FE)	F19	B	58	Q5	A	61
C57		51 (2GR–FE)	F20	C	58	Q12	B	61
E18	A	56	F21		58	a1	B	59

⬭ : 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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3T		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	

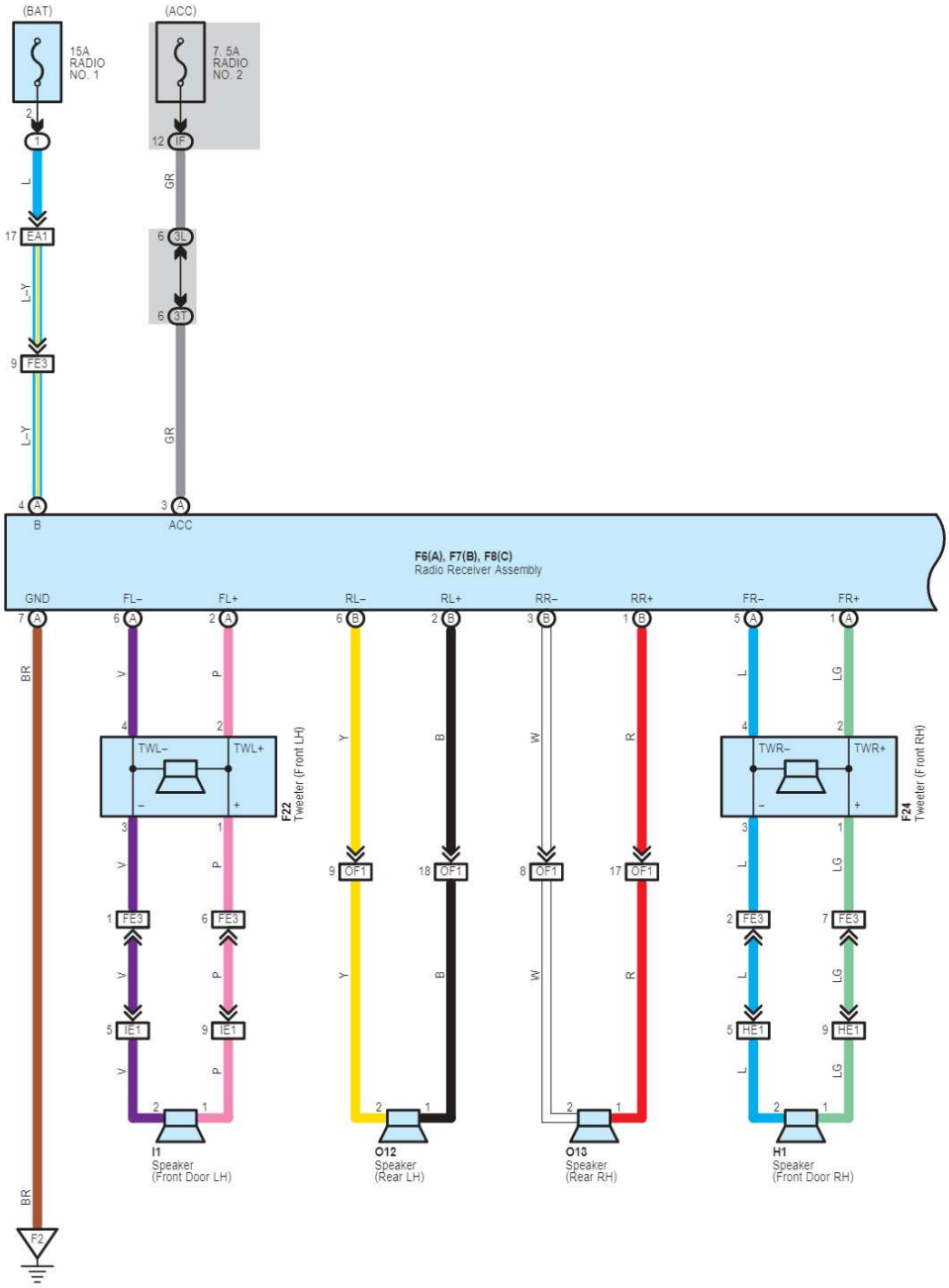
▭ : Connector Joining Wire Harness and Wire Harness

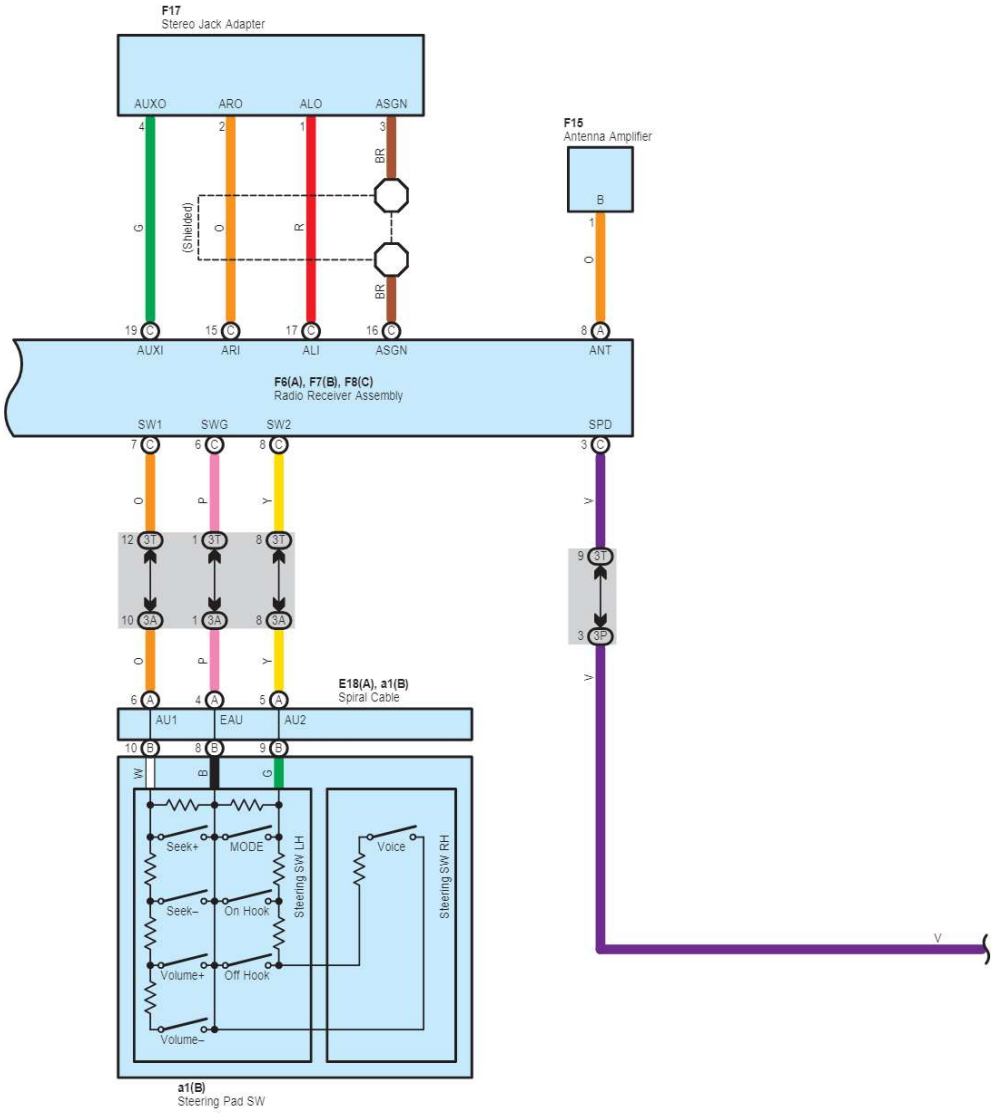
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE2	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
FE3		
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
OF1	66	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Right)

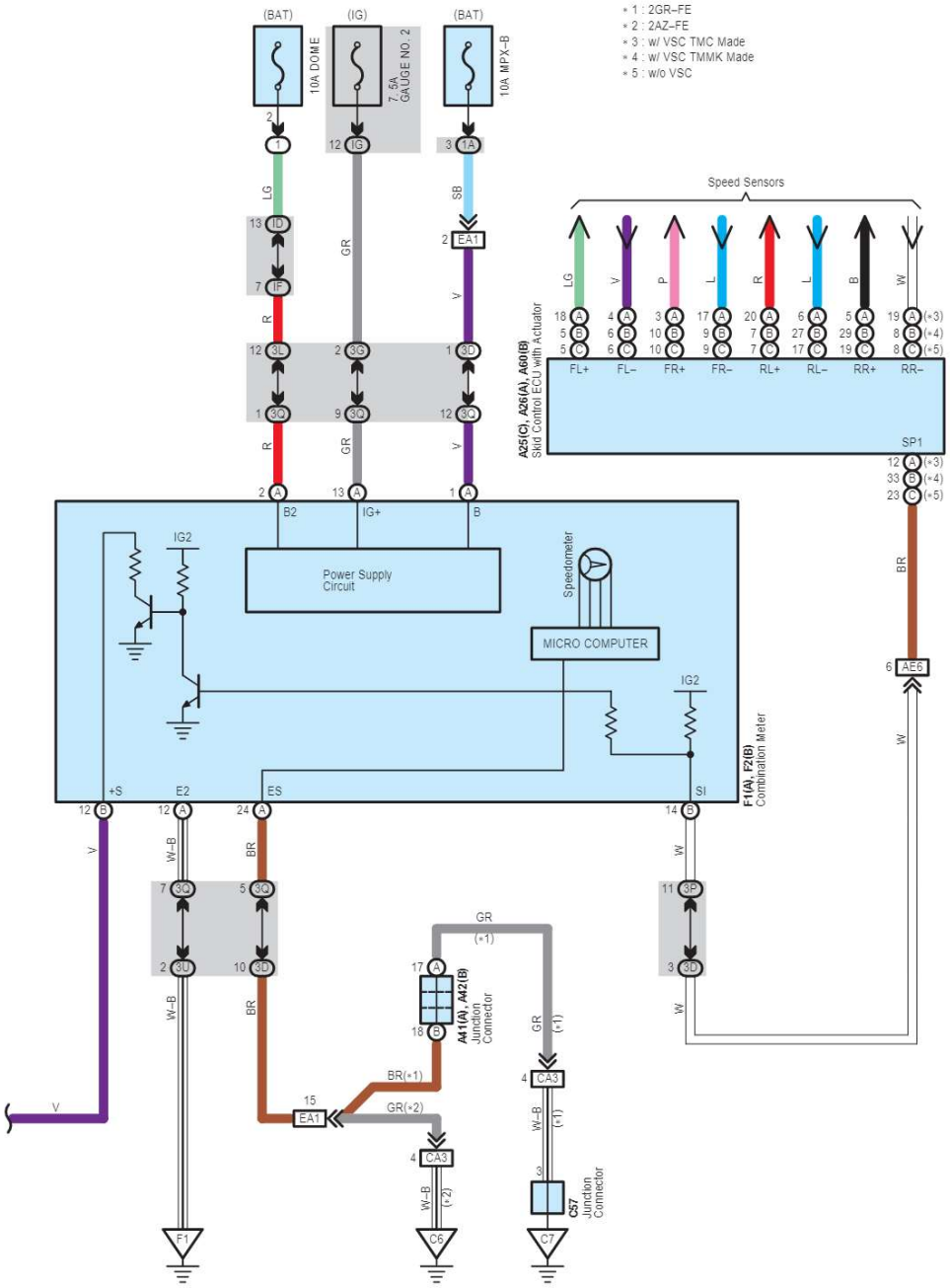
▽ : Ground Points

Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left
F2	66	Instrument Panel Brace RH
F3	66	Under the Front Passenger's Seat

Audio System with 6 Speaker




F17
Stereo Jack Adapter
AUXO
ARO
ALO
ASGN
4
2
1
3
G
O
R
BR
(Shielded)
BR
19 C
15 C
17 C
16 C
AUXI
ARI
ALI
ASGN
F15
Antenna Amplifier
B
1
O
8 A
ANT
F6(A), F7(B), F8(C)
Radio Receiver Assembly
SW1
SWG
SW2
SPD
7 C
6 C
8 C
3 C
O
P
Y
V
12 3T
1 3T
8 3T
9 3T
10 3A
1 3A
8 3A
3 3P
O
P
Y
V
E18(A), a1(B)
Spiral Cable
6 A
4 A
5 A
AU1
EAU
AU2
10 B
8 B
9 B
W
B
G
Seek+
MODE
Seek–
On Hook
Volume+
Off Hook
Volume–
Steering SW LH
Voice
Steering SW RH
V
a1(B)
Steering Pad SW


* 1 : 2GR-FE
* 2 : 2AZ-FE
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
SP1
IG2
Power Supply Circuit
Speedometer
MICRO COMPUTER
B2
IG+
B
+S
E2
ES
SI
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction Connector
C57
Junction Connector
EA1
CA3
AE6
F1
C6
C7

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	C	48 (2GR–FE)	C57		51 (2GR–FE)	F17		58
		52 (2AZ–FE)	E18	A	56	F22		58
A26	A	48 (2GR–FE)	F1	A	58	F24		58
		52 (2AZ–FE)	F2	B	58	H1		61
A41	A	59	F6	A	58	I1		61
A42	B	59	F7	B	58	O12		60
A60	B	49 (2GR–FE)	F8	C	58	O13		60
		53 (2AZ–FE)	F15		58	a1	B	59

: 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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3T		
3U		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	

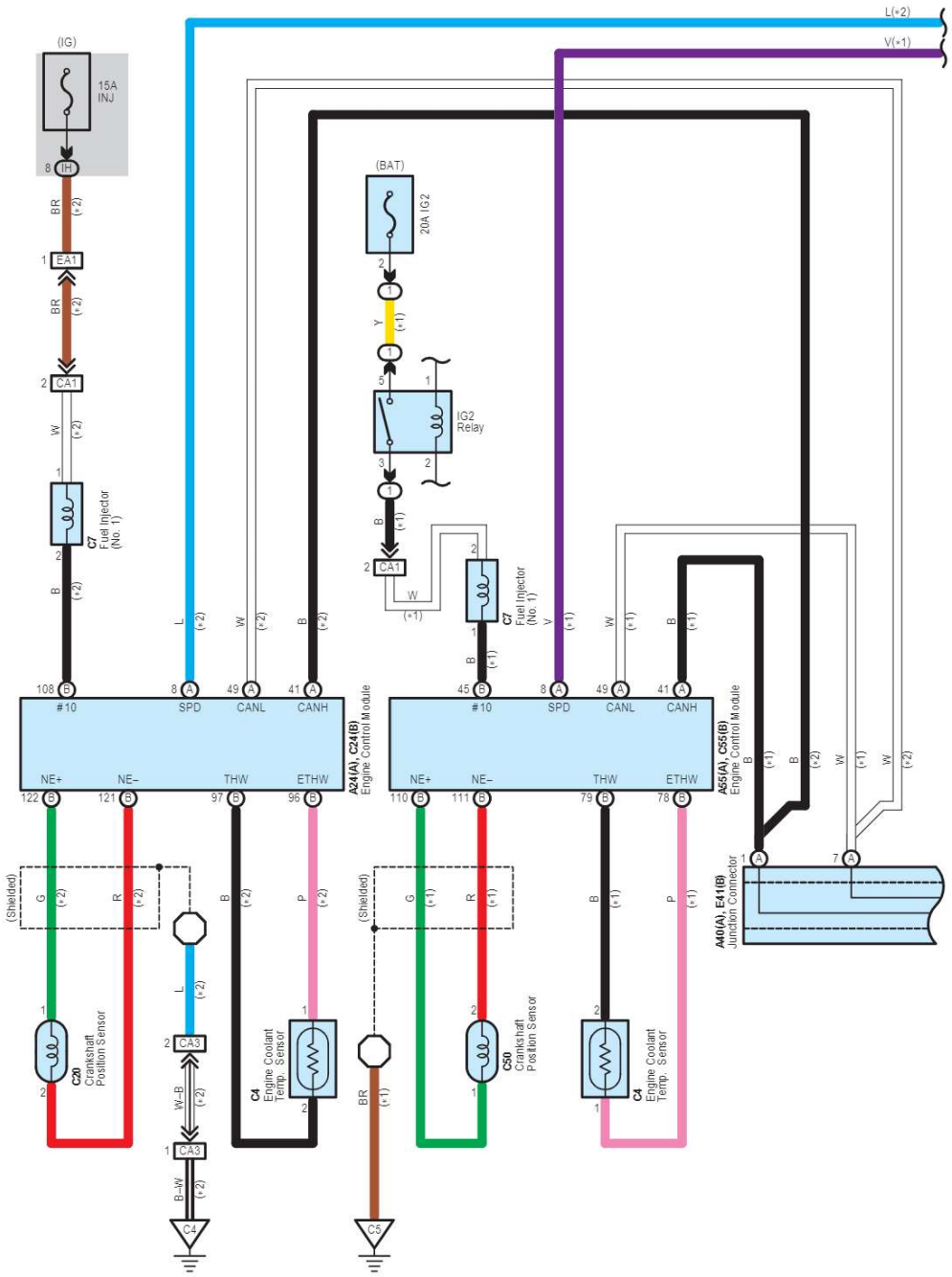
: Connector Joining Wire Harness and Wire Harness

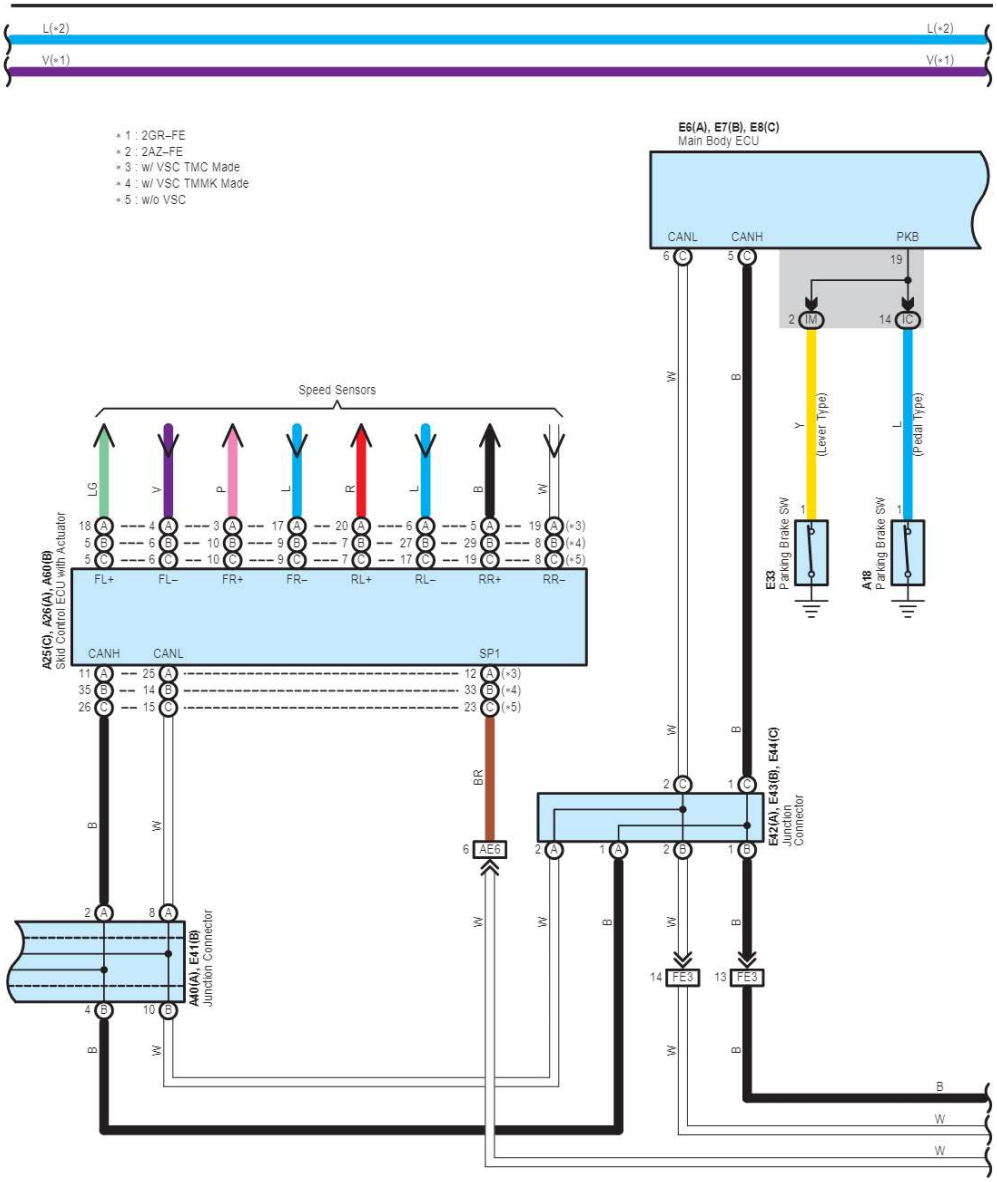
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE6	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
OF1	66	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Right)

: Ground Points

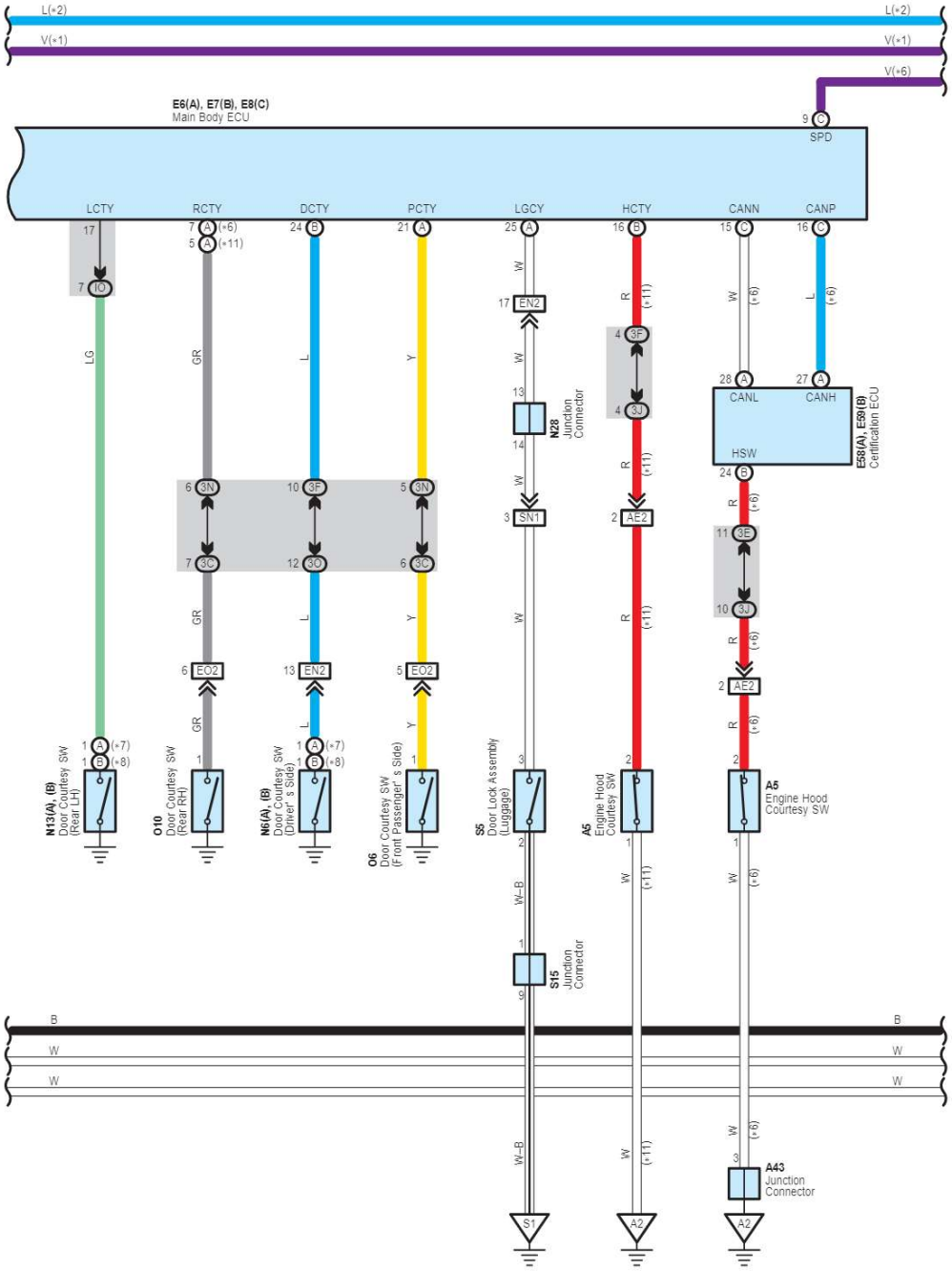
Code	See Page	Ground Points Location
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left
F2	66	Instrument Panel Brace RH

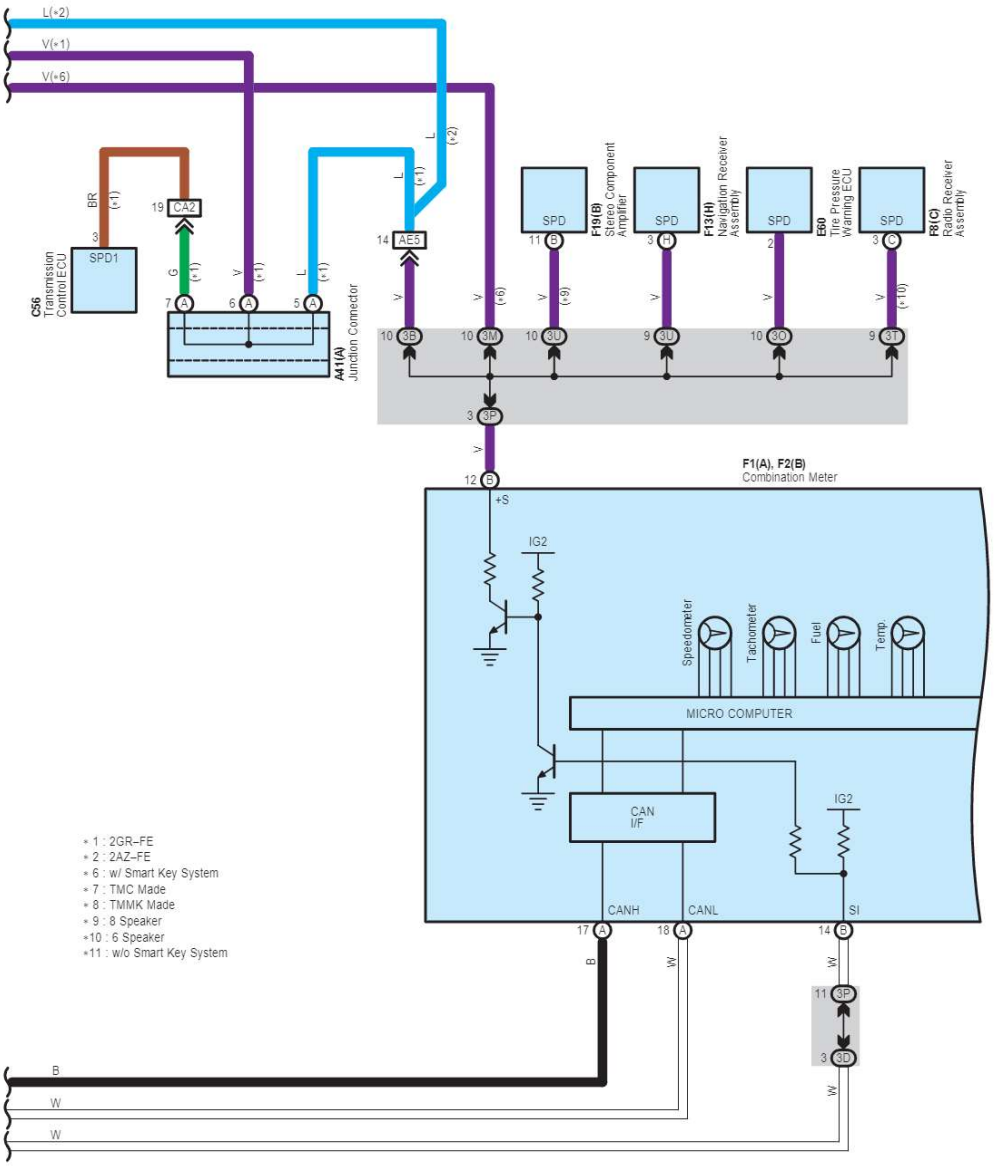
Combination Meter



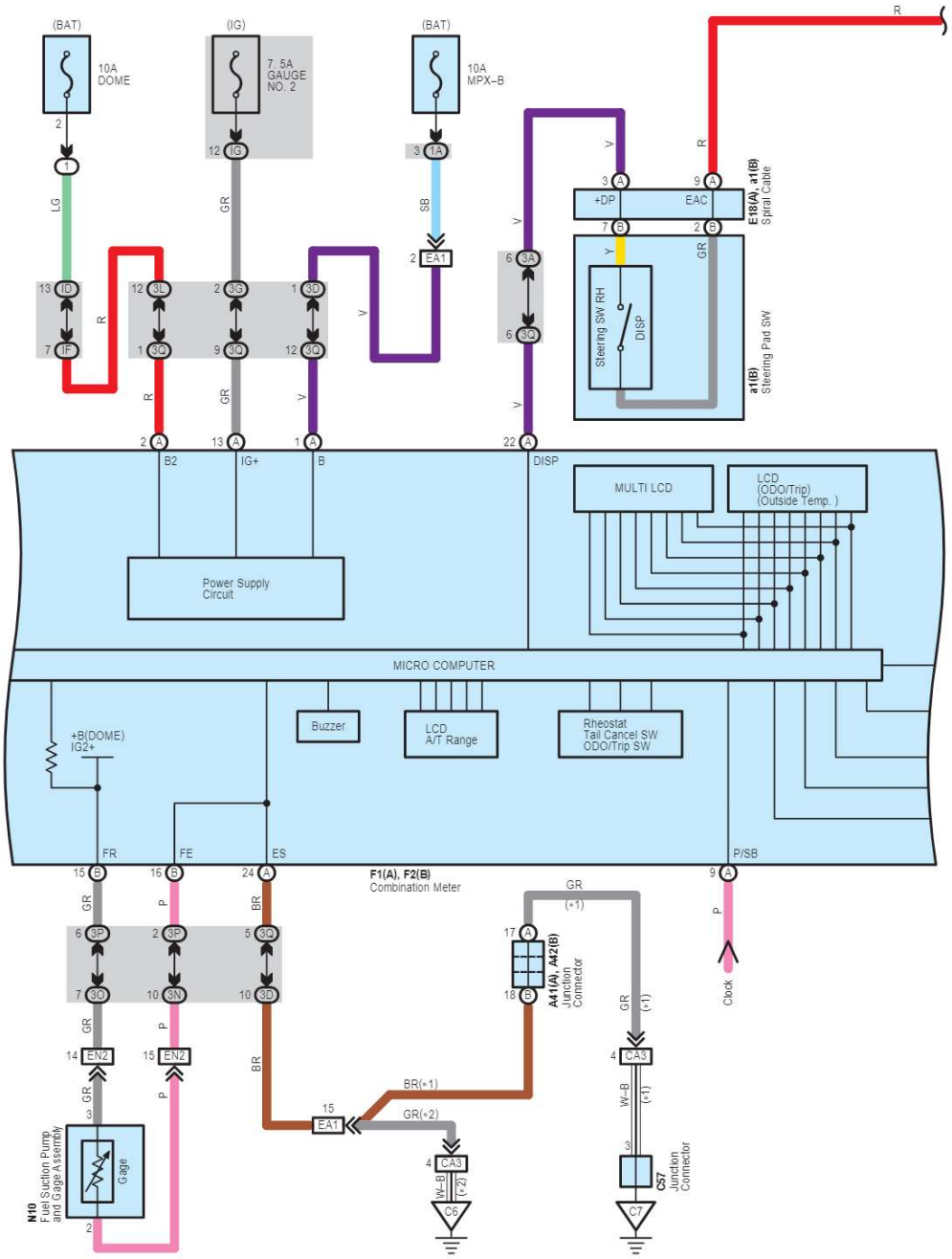

L(*2)
V(*1)
L(*2)
V(*1)
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : w/ VSC TMC Made
* 4 : w/ VSC TMMK Made
* 5 : w/o VSC
E6(A), E7(B), E8(C)
Main Body ECU
CANL
CANH
PKB
IM
IC
Speed Sensors
LG
V
P
L
R
L
B
W
(Lever Type)
(Pedal Type)
E33
Parking Brake SW
A18
Parking Brake SW
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
BR
AE6
E42(A), E43(B), E44(C)
Junction Connector
A40(A), E41(B)
Junction Connector
FE3
FE3

Combination Meter



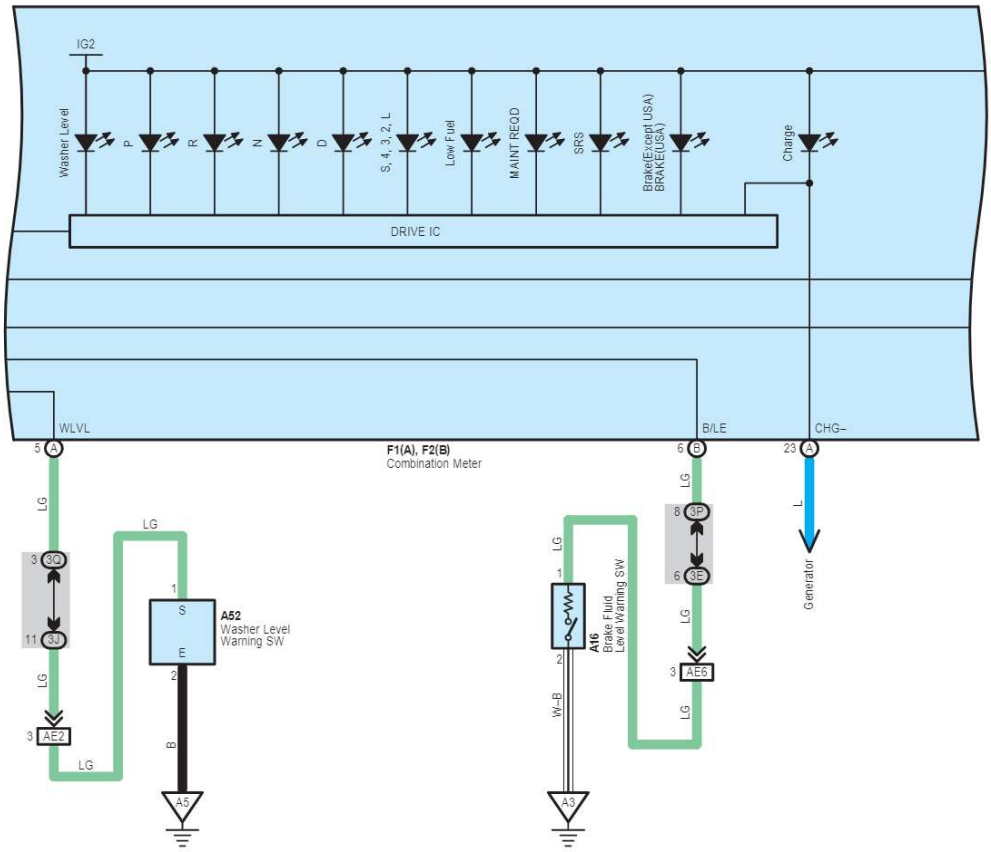

L(*2)
V(*1)
V(*6)
BR (*1)
19 CA2
3 SPD1
C56 Transmission Control ECU
G (*1)
V (*1)
L (*1)
7 A
6 A
5 A
A41(A) Junction Connector
L (*2)
L (*1)
14 AE5
SPD
11 B
F19(B) Stereo Component Amplifier
3 H
F13(H) Navigation Receiver Assembly
2
E60 Tire Pressure Warning ECU
3 C
R8(C) Radio Receiver Assembly
V (*6)
V (*9)
V (*10)
10 3B
10 3M
10 3U
9 3U
10 3O
9 3T
3 3P
12 B
F1(A), F2(B) Combination Meter
+S
IG2
Speedometer
Tachometer
Fuel
Temp.
MICRO COMPUTER
CAN I/F
IG2
CANH
CANL
SI
17 A
18 A
14 B
B
W
W
11 3P
3 3D
W
B
W
W
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 6 : w/ Smart Key System
* 7 : TMC Made
* 8 : TMMK Made
* 9 : 8 Speaker
*10 : 6 Speaker
*11 : w/o Smart Key System

Combination Meter

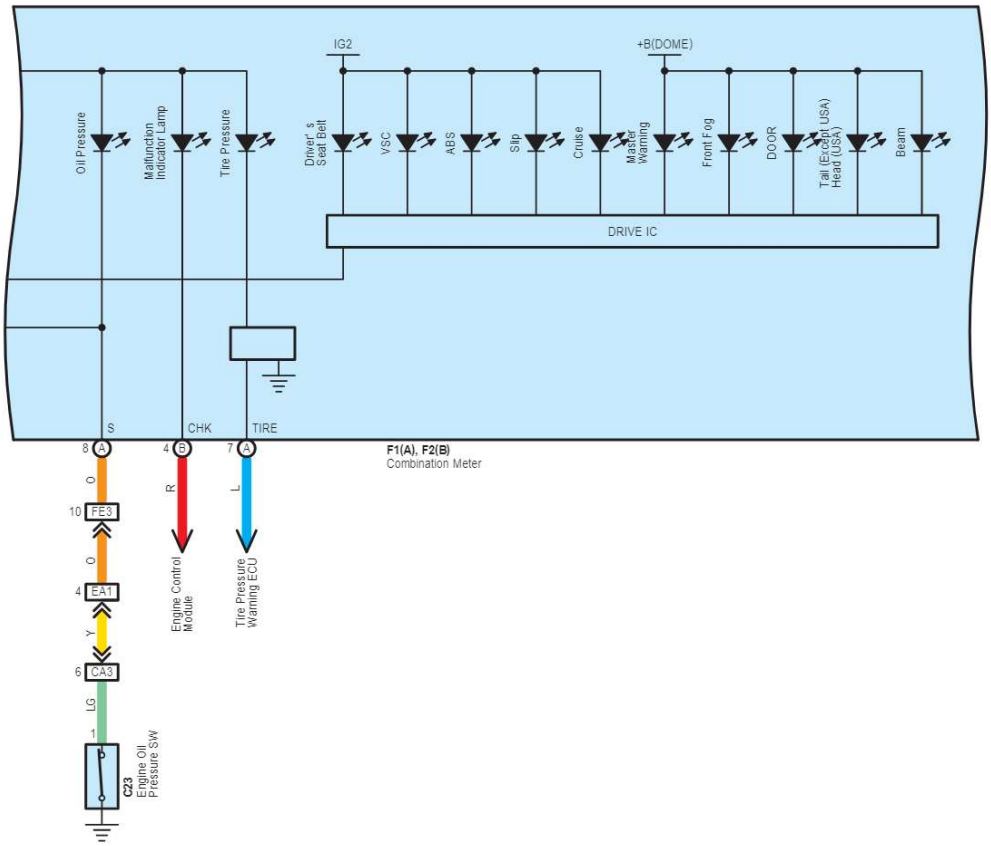


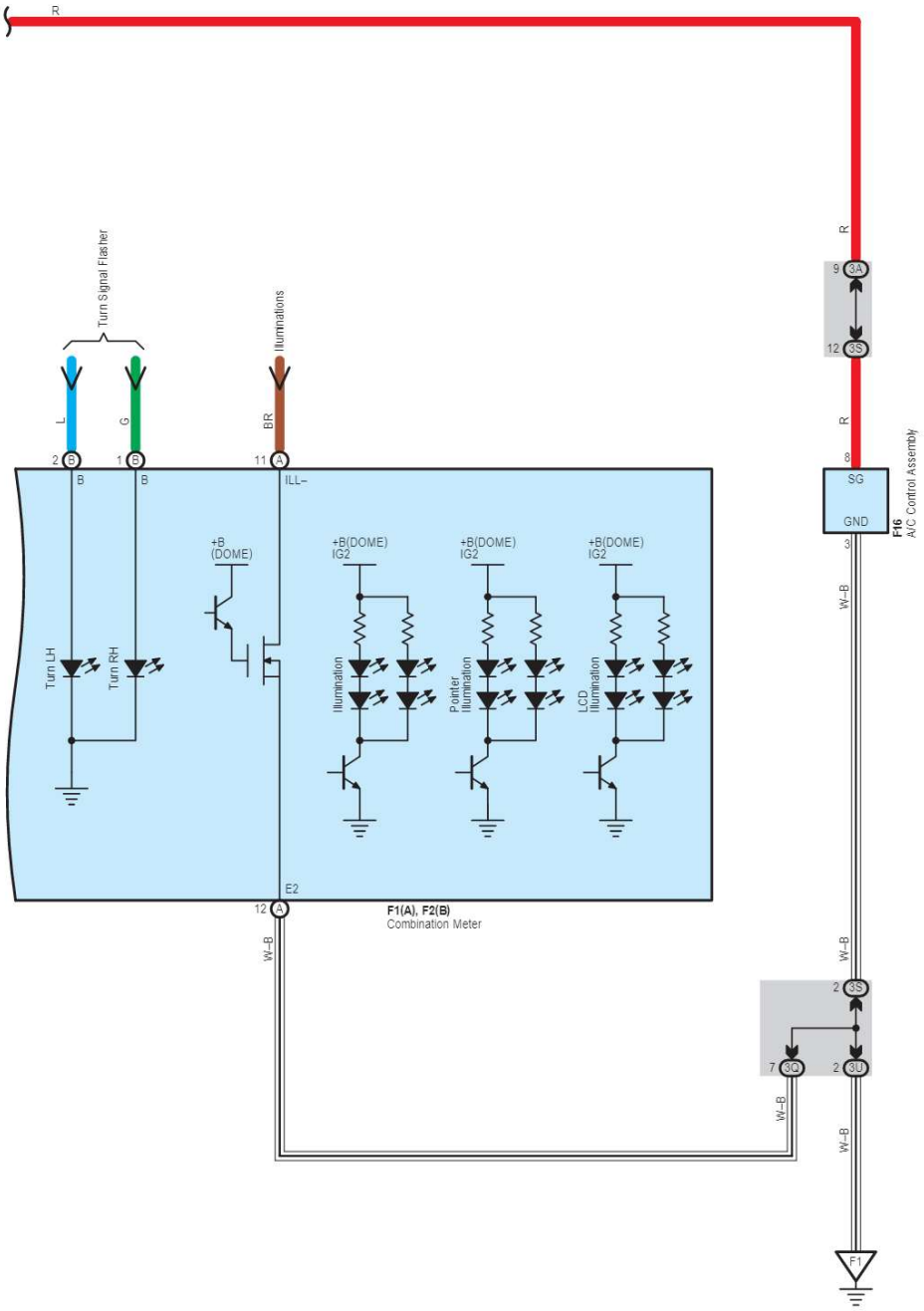
R R

* 1 : 2GR–FE
* 2 : 2AZ–FE




R
R


IG2
+B(DOME)
Oil Pressure
Malfunction Indicator Lamp
Tire Pressure
Driver's Seat Belt
VSC
ABS
Slip
Cruise
Master Warning
Front Fog
DOOR
Tail (Except USA) Head (USA)
Beam
DRIVE IC
S
CHK
TIRE
8 A
4 B
7 A
F1(A), F2(B)
Combination Meter
O
R
L
10 FE3
O
4 EA1
Y
6 CA3
LG
1
C23
Engine Oil Pressure SW
Engine Control Module
Tire Pressure Warning ECU


R
Turn Signal Flasher
Illuminations
L
G
BR
2 B
1 B
11 A
B
B
ILL–
+B (DOME)
+B(DOME) IG2
+B(DOME) IG2
+B(DOME) IG2
Turn LH
Turn RH
Illumination
Pointer Illumination
LCD Illumination
E2
12 A
F1(A), F2(B)
Combination Meter
W–B
R
9 3A
12 3S
8
SG
GND
F16
A/C Control Assembly
3
2 3S
7 3C
2 3U
F1

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A5	48 (2GR–FE)	C4	54 (2AZ–FE)	E58 A	57
	52 (2AZ–FE)	C7	50 (2GR–FE)	E59 B	57
A16	48 (2GR–FE)		54 (2AZ–FE)	E60	57
	52 (2AZ–FE)	C20	55 (2AZ–FE)	F1 A	58
A18	59	C23	50 (2GR–FE)	F2 B	58
A24 A	52 (2AZ–FE)		55 (2AZ–FE)	F8 C	58
A25 C	48 (2GR–FE)	C24 B	55 (2AZ–FE)	F13 H	58
	52 (2AZ–FE)	C50	51 (2GR–FE)	F16	58
A26 A	48 (2GR–FE)	C55 B	51 (2GR–FE)	F19 B	58
	52 (2AZ–FE)	C56	51 (2GR–FE)	N6 A	60
A40 A	59	C57	51 (2GR–FE)	N6 B	60
A41 A	59	E6 A	56	N10	60
A42 B	59	E7 B	56	N13 A	60
A43	49 (2GR–FE)	E8 C	56	N13 B	60
A52	49 (2GR–FE)	E18 A	56	N28	60
	53 (2AZ–FE)	E33	56	O6	60
A55 A	49 (2GR–FE)	E41 B	57	O10	60
A60 B	49 (2GR–FE)	E42 A	57	S5	61
	53 (2AZ–FE)	E43 B	57	S15	61
C4	50 (2GR–FE)	E44 C	57	a1 B	59

: 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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3F		
3G		
3J		
3L		
3M		
3N		
3O		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3T		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IH		
IM	30	
IO	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)

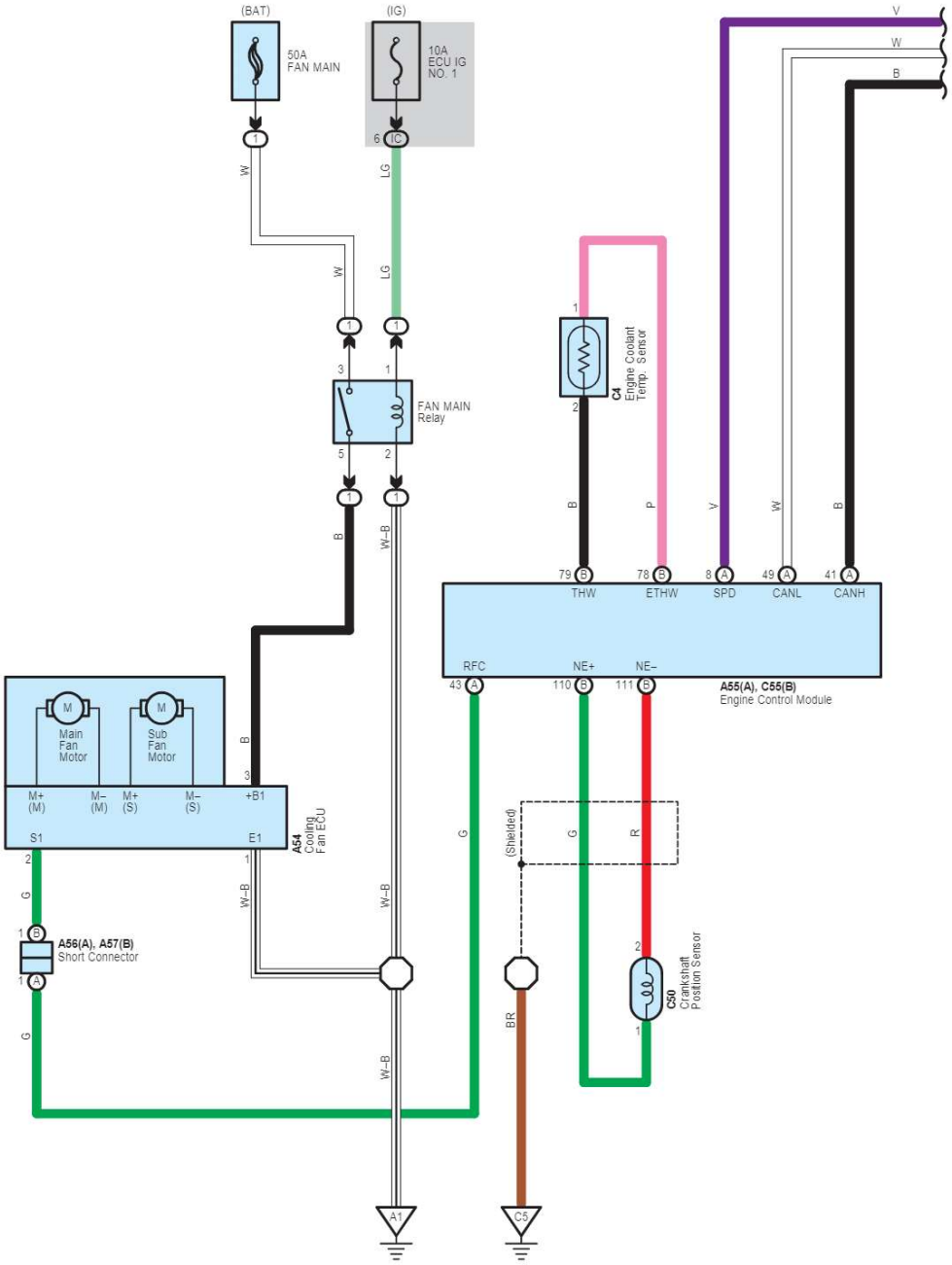
: **Connector Joining Wire Harness and Wire Harness**

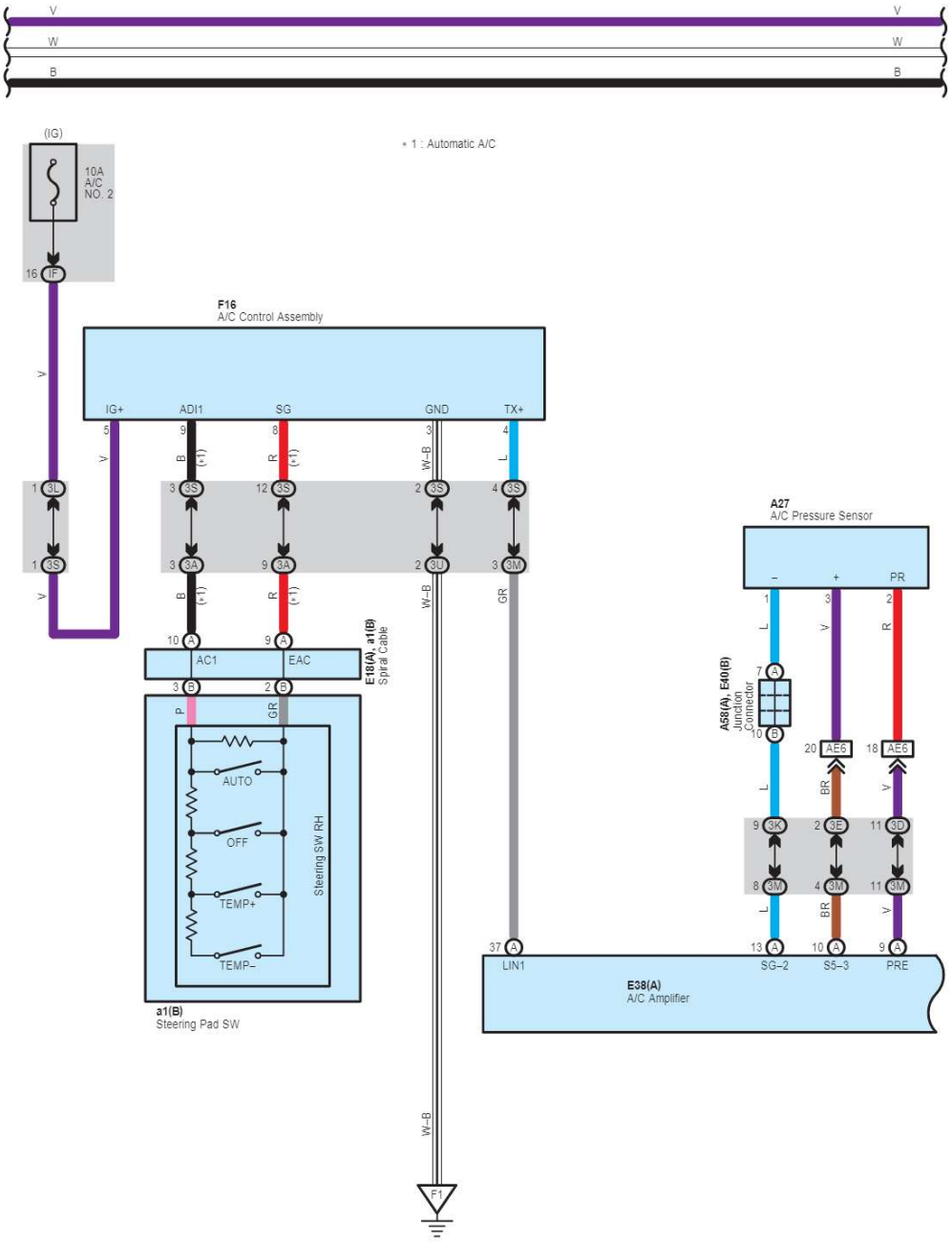
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA1	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
CA2	64 (2GR–FE)	
CA3	64 (2GR–FE)	
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

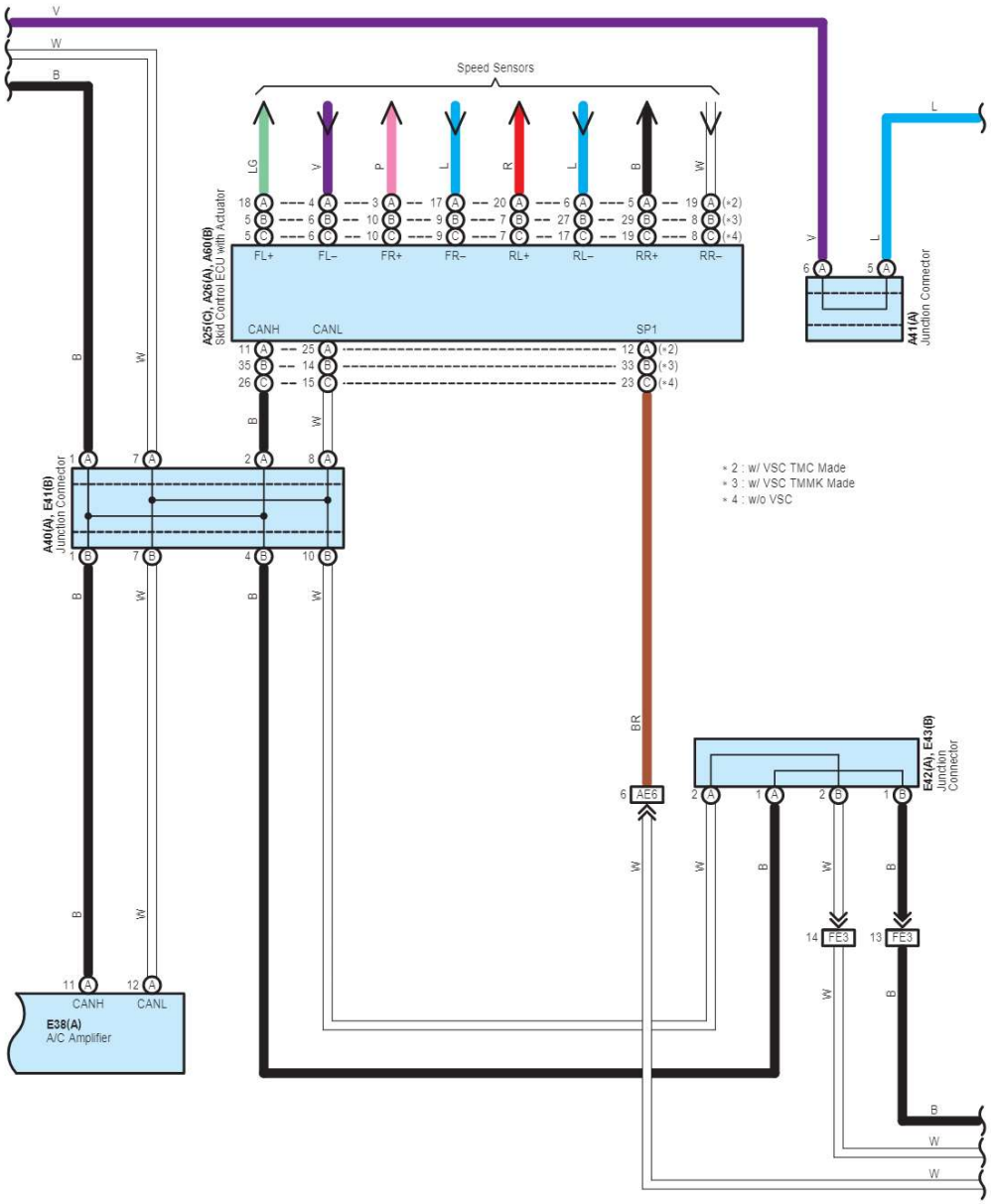
: **Ground Points**

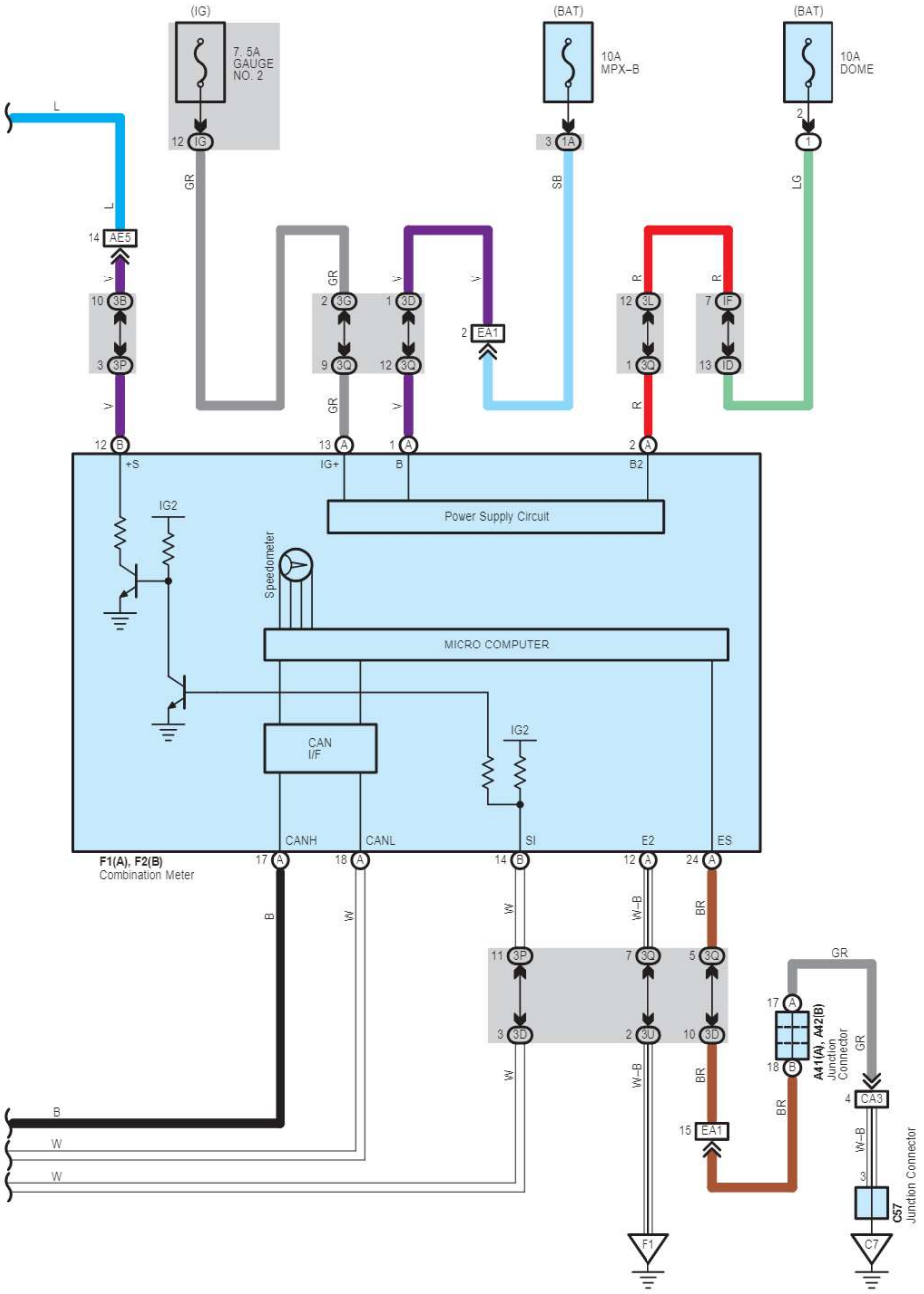
Code	See Page	Ground Points Location
A2	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel
A5	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
C4	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left
S1	67	Lower Back Panel Center

Cooling Fan for 2GR–FE




V
W
B
(IG)
10A
A/C
NO. 2
16 1F
* 1 : Automatic A/C
F16
A/C Control Assembly
IG+
ADI1
SG
GND
TX+
AUTO
OFF
TEMP+
TEMP–
Steering SW RH
a1(B)
Steering Pad SW
E18(A), a1(B)
Spiral Cable
AC1
EAC
A27
A/C Pressure Sensor
–
+
PR
A58(A), E40(B)
Junction
Connector
AE6
LIN1
SG–2
S5–3
PRE
E38(A)
A/C Amplifier
W–B
F1


Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
A41(A)
Junction Connector
A40(A), E41(B)
Junction Connector
E38(A)
A/C Amplifier
E42(A), E43(B)
Junction Connector
AE6
FE3
FE3
* 2 : w/ VSC TMC Made
* 3 : w/ VSC TMMK Made
* 4 : w/o VSC


(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
L
GR
SB
LG
AE5
3B
3P
3G
3Q
3D
EA1
3L
3Q
1F
1D
+S
IG+
B
B2
IG2
Power Supply Circuit
Speedometer
MICRO COMPUTER
CAN
I/F
IG2
CANH
CANL
SI
E2
ES
F1(A), F2(B)
Combination Meter
W–B
BR
W
B
3P
3Q
3U
3D
EA1
A41(A), A42(B)
Junction
Connector
CA3
C57
Junction Connector
F1
C7

Cooling Fan for 2GR–FE

System Outline

System Operation

When the power SW is pushed to IG ON position (Power SW type), or when the ignition SW is turned to ON (Ignition SW type), the current from the ECU IG NO.1 fuse is sent to the coil side and the FAN MAIN relay is turned to ON. Then the current flows to TERMINAL 3 of the cooling fan ECU. At the same time, the conditions of the A/C SW, A/C pressure sensor, engine coolant temp. sensor and engine rotation are sent to the TERMINAL 2 as signals from engine control module. As a result of that, the cooling fan ECU continuously controls the rotation of the fan motor and keeps a balance between the cooling efficiency and silentness with the optimal fan rotation.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	C	48 (2GR–FE)	A57	B	59	E40	B	57
A26	A	48 (2GR–FE)	A58	A	59	E41	B	57
A27		48 (2GR–FE)	A60	B	49 (2GR–FE)	E42	A	57
A40	A	59	C4		50 (2GR–FE)	E43	B	57
A41	A	59	C50		51 (2GR–FE)	F1	A	58
A42	B	59	C55	B	51 (2GR–FE)	F2	B	58
A54		49 (2GR–FE)	C57		51 (2GR–FE)	F16		58
A55	A	49 (2GR–FE)	E18	A	56	a1	B	59
A56	A	59	E38	A	57			

: 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)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3E		
3G		
3K		
3L		
3M		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	

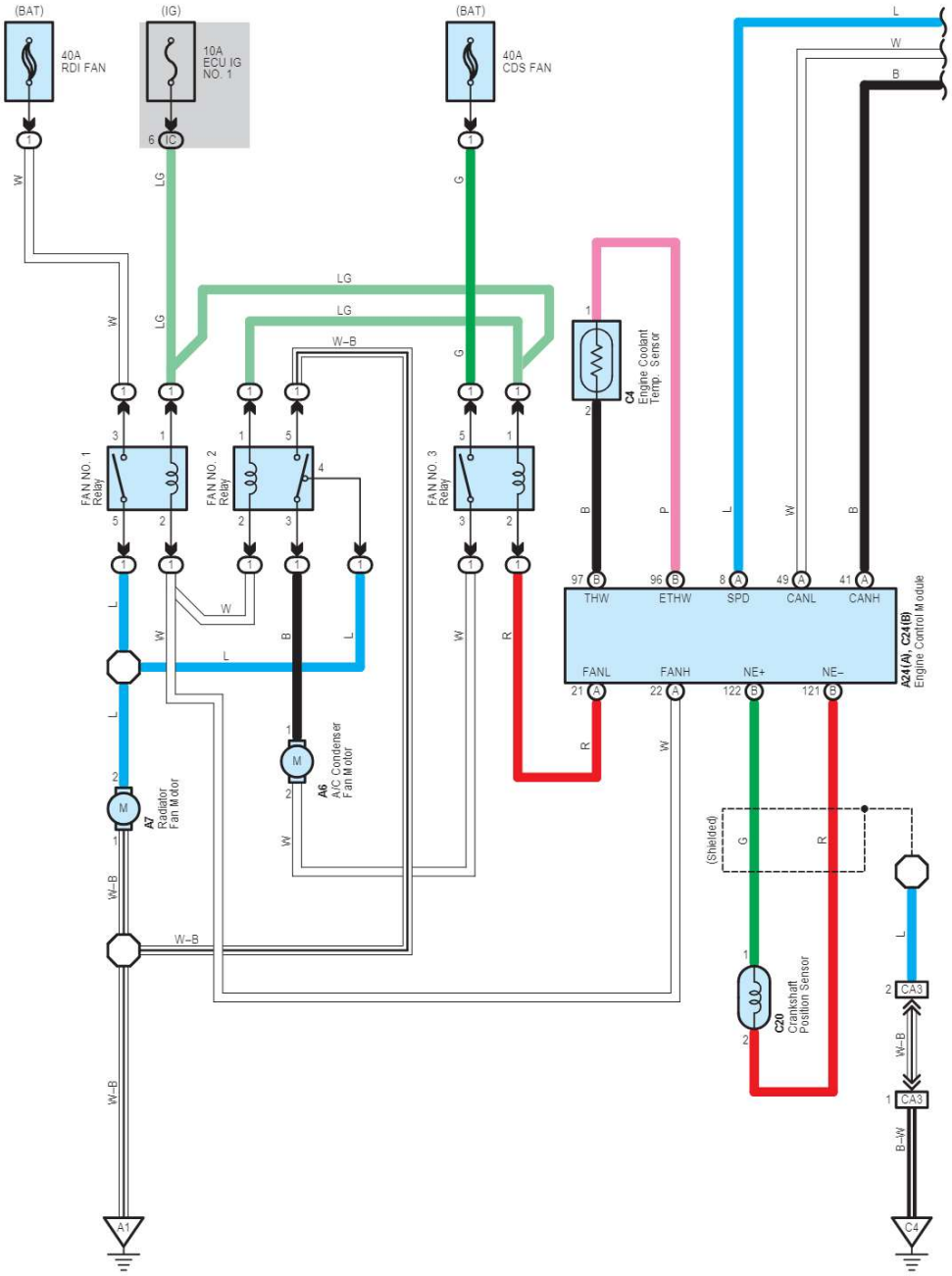
: Connector Joining Wire Harness and Wire Harness

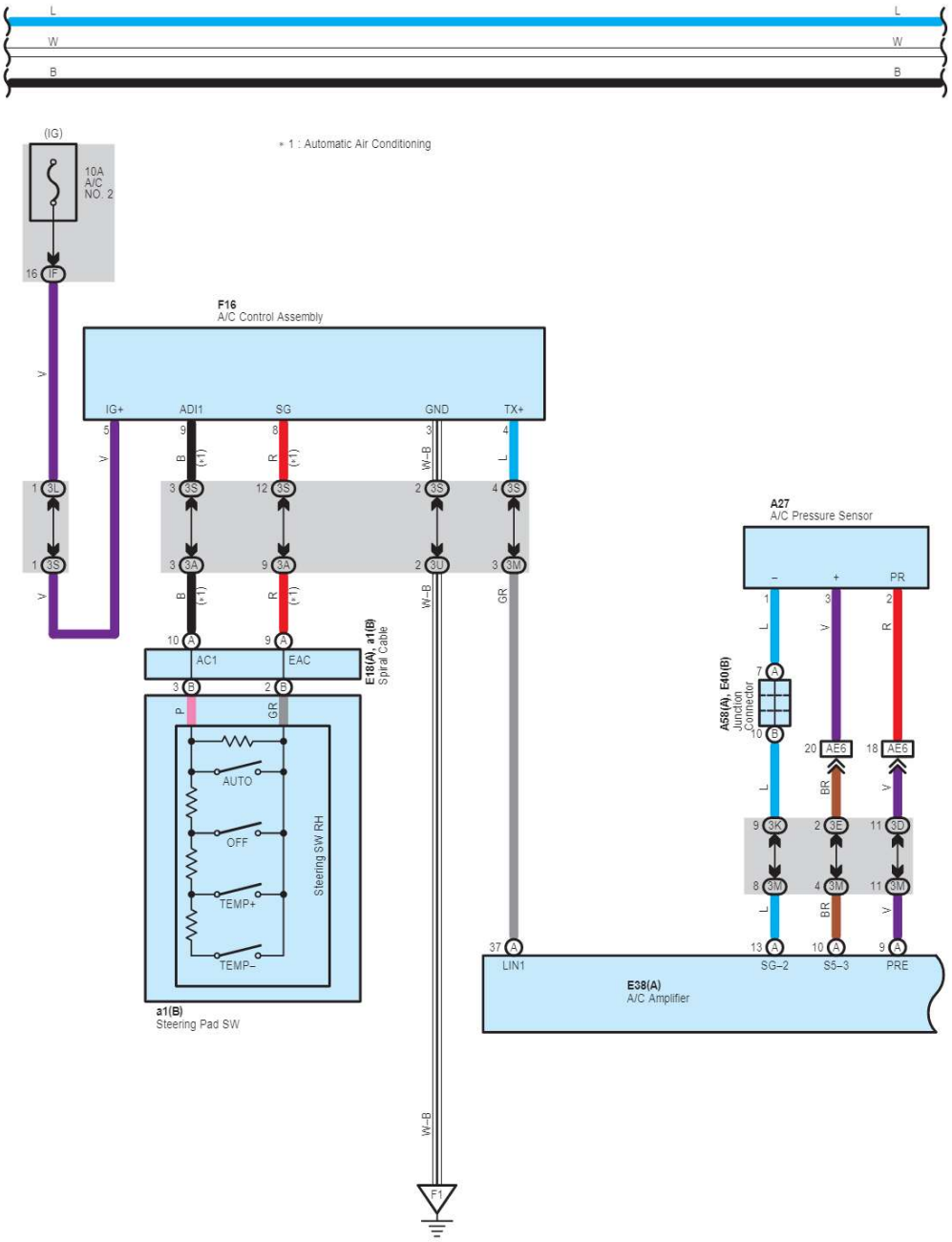
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

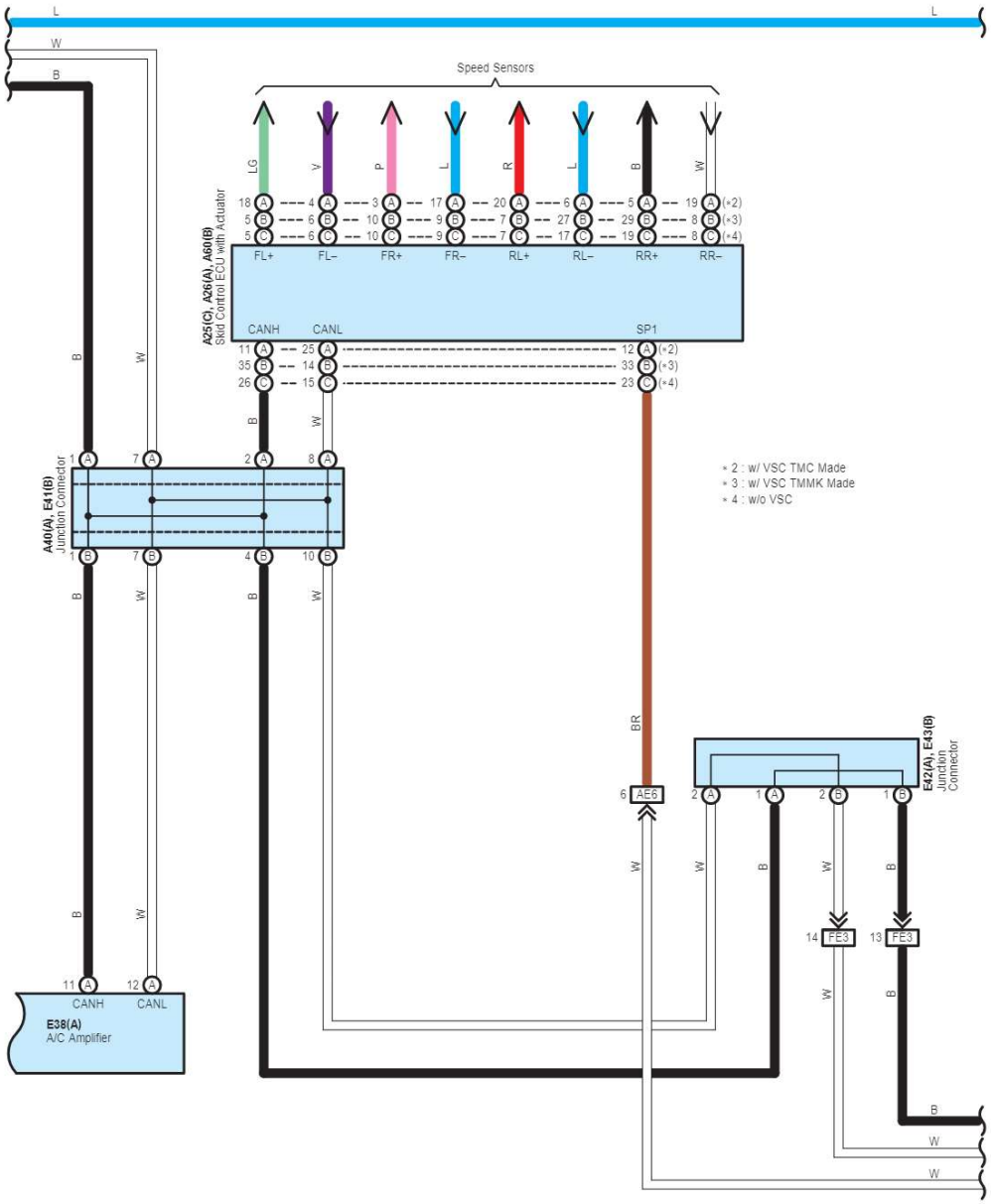
▽ : **Ground Points**

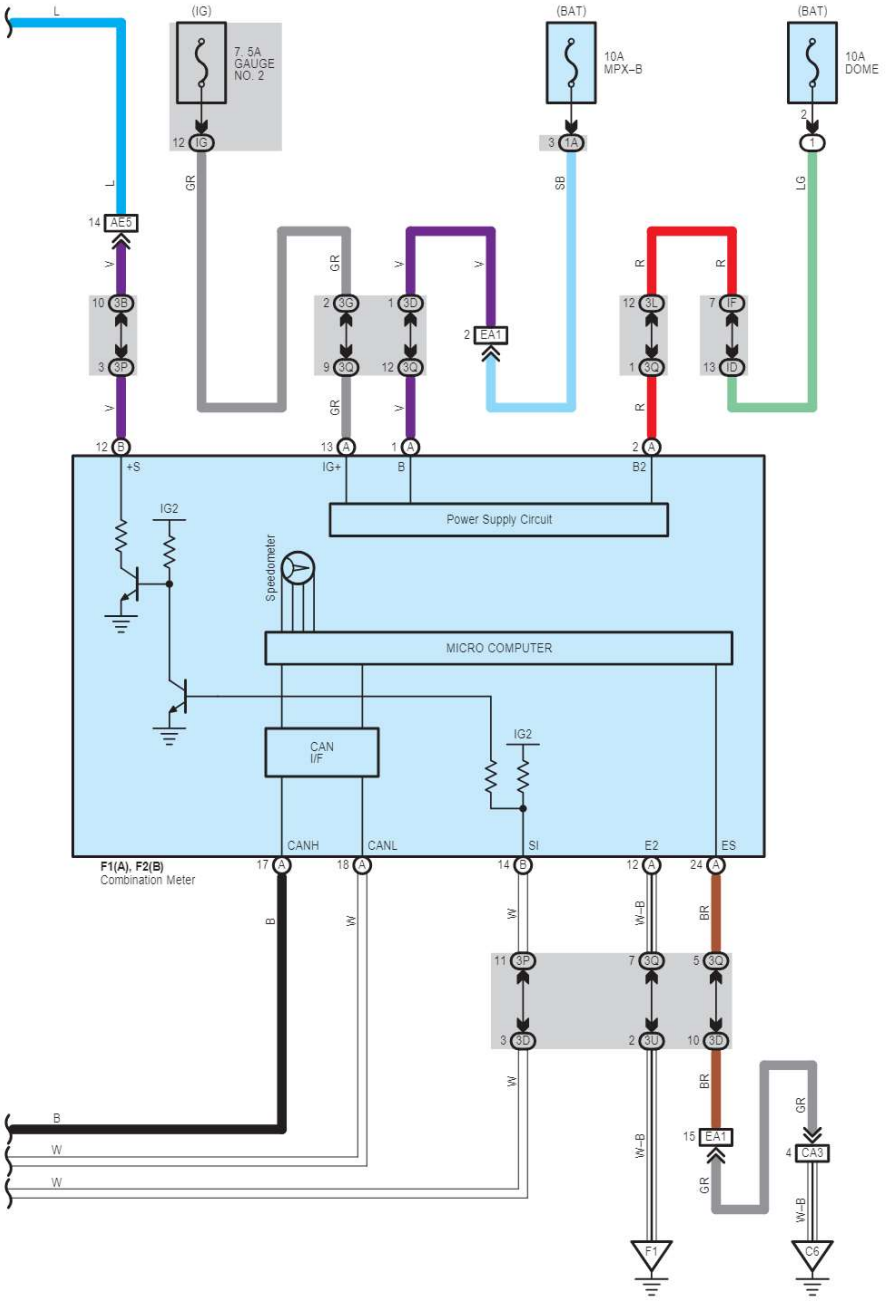
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
F1	66	Instrument Panel Left

Radiator Fan and Condenser Fan for 2AZ–FE




L
W
B
(IG)
10A
A/C
NO. 2
16 1F
V
F16
A/C Control Assembly
IG+
ADI1
SG
GND
TX+
5
9
8
3
4
V
B
(+)
R
(+)
W–B
L
1 3L
3 3S
12 3S
2 3S
4 3S
1 3S
3 3A
9 3A
2 3U
3 3M
V
B
(+)
R
(+)
W–B
GR
10 A
9 A
AC1
EAC
E18(A), a1(B)
Spiral Cable
3 B
2 B
P
GR
AUTO
OFF
TEMP+
TEMP–
Steering SW RH
a1(B)
Steering Pad SW
W–B
F1
A27
A/C Pressure Sensor
–
+
PR
1
3
2
L
V
R
7 A
10 B
A58(A), E40(B)
Junction
Connector
20 AE6
18 AE6
BR
V
9 3K
2 3E
11 3D
8 3M
4 3M
11 3M
L
BR
V
37 A
13 A
10 A
9 A
LIN1
SG–2
S5–3
PRE
E38(A)
A/C Amplifier


Speed Sensors
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
CANH
CANL
SP1
A40(A), E41(B)
Junction Connector
E38(A)
A/C Amplifier
E42(A), E43(B)
Junction Connector
AE6
FE3
* 2 : w/ VSC TMC Made
* 3 : w/ VSC TMMK Made
* 4 : w/o VSC


(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
(BAT)
10A
DOME
+S
IG+
B
B2
IG2
Power Supply Circuit
Speedometer
MICRO COMPUTER
CAN
I/F
IG2
CANH
CANL
SI
E2
ES
F1(A), F2(B)
Combination Meter

Radiator Fan and Condenser Fan for 2AZ–FE

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A6		52 (2AZ–FE)	A60	B	53 (2AZ–FE)	E42	A	57
A7		52 (2AZ–FE)	C4		54 (2AZ–FE)	E43	B	57
A24	A	52 (2AZ–FE)	C20		55 (2AZ–FE)	F1	A	58
A25	C	52 (2AZ–FE)	C24	B	55 (2AZ–FE)	F2	B	58
A26	A	52 (2AZ–FE)	E18	A	56	F16		58
A27		52 (2AZ–FE)	E38	A	57	a1	B	59
A40	A	59	E40	B	57			
A58	A	59	E41	B	57			

: 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

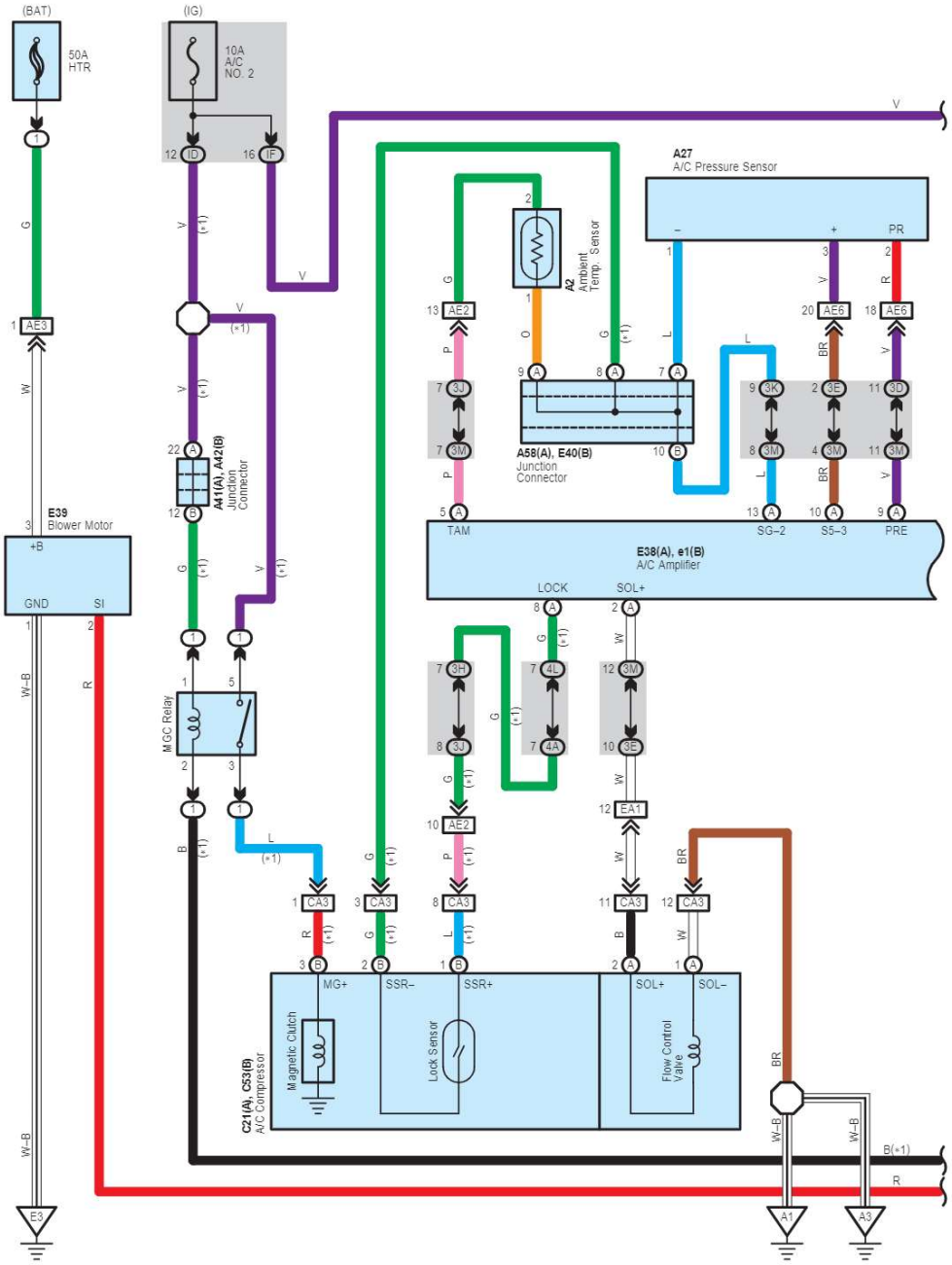
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3E		
3G		
3K		
3L		
3M		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
IC	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	

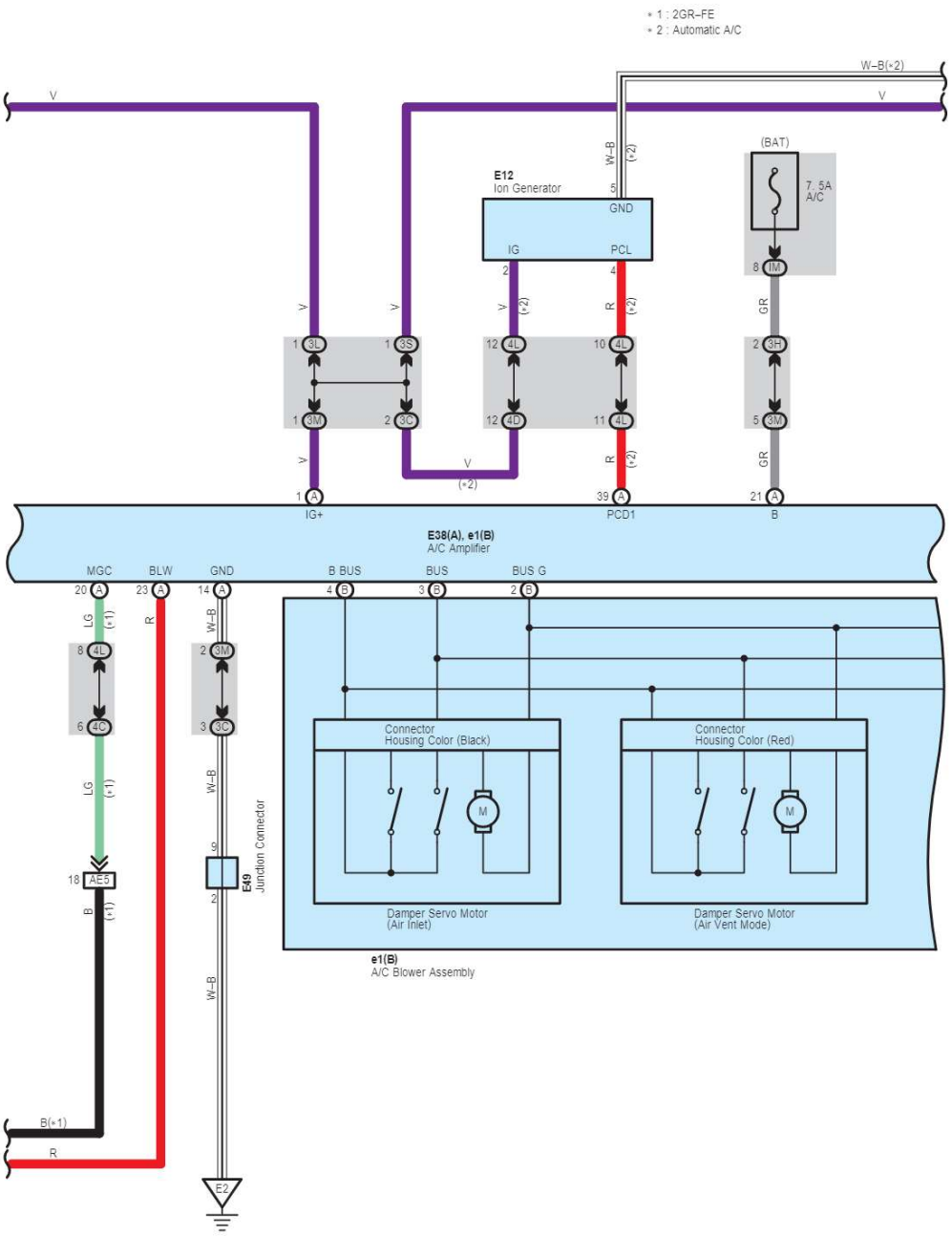
: Connector Joining Wire Harness and Wire Harness

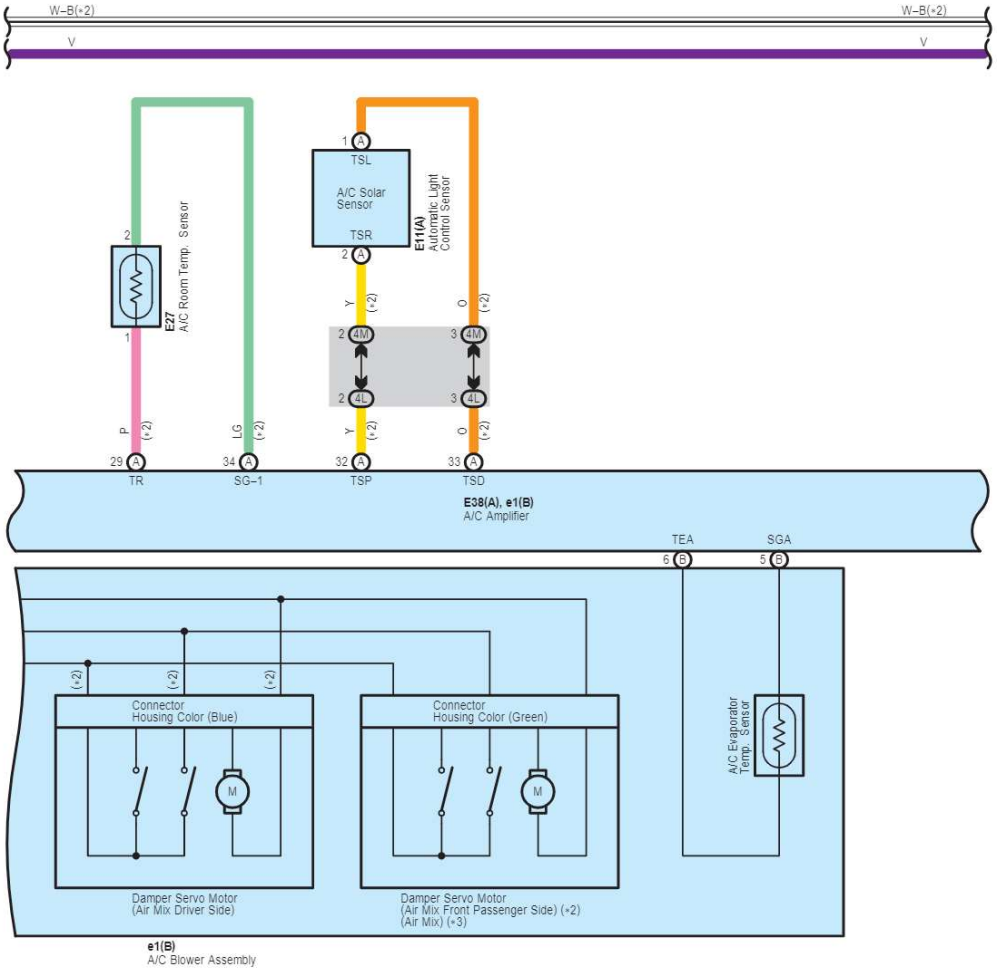
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE6		
CA3	65 (2AZ–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

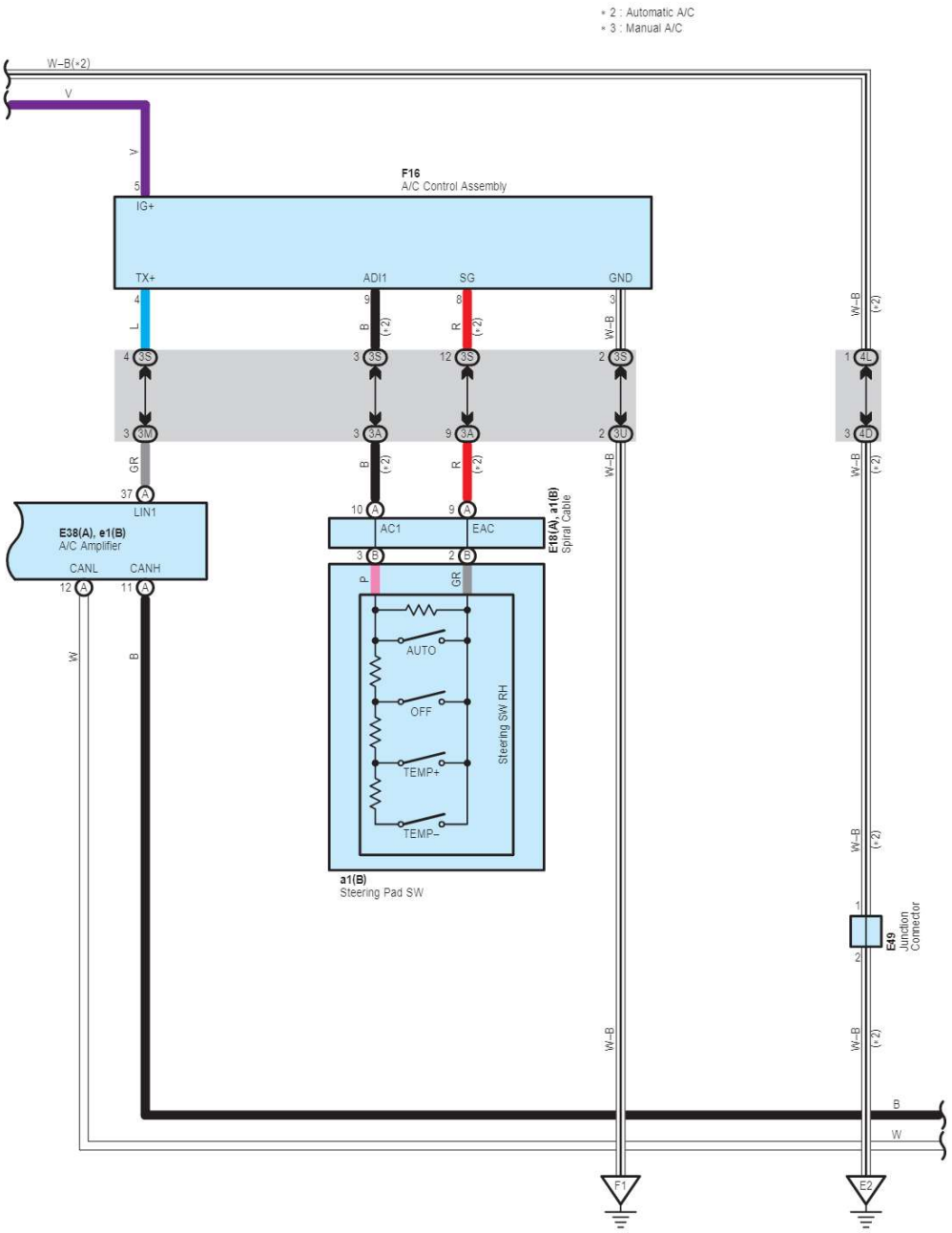
: Ground Points

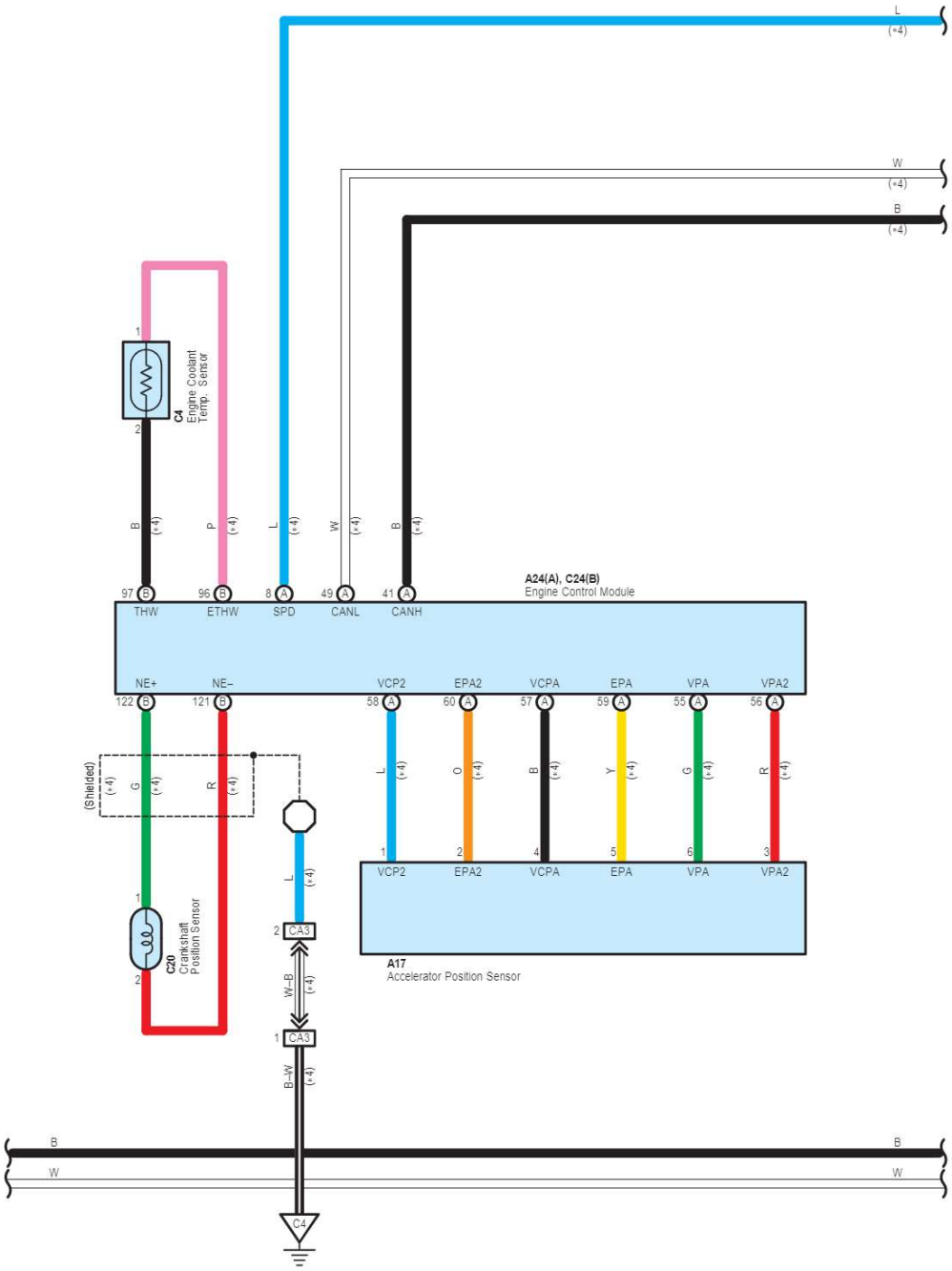
Code	See Page	Ground Points Location
A1	65 (2AZ–FE)	Front Left Fender
C4	65 (2AZ–FE)	Cylinder Block
C6		
F1	66	Instrument Panel Left

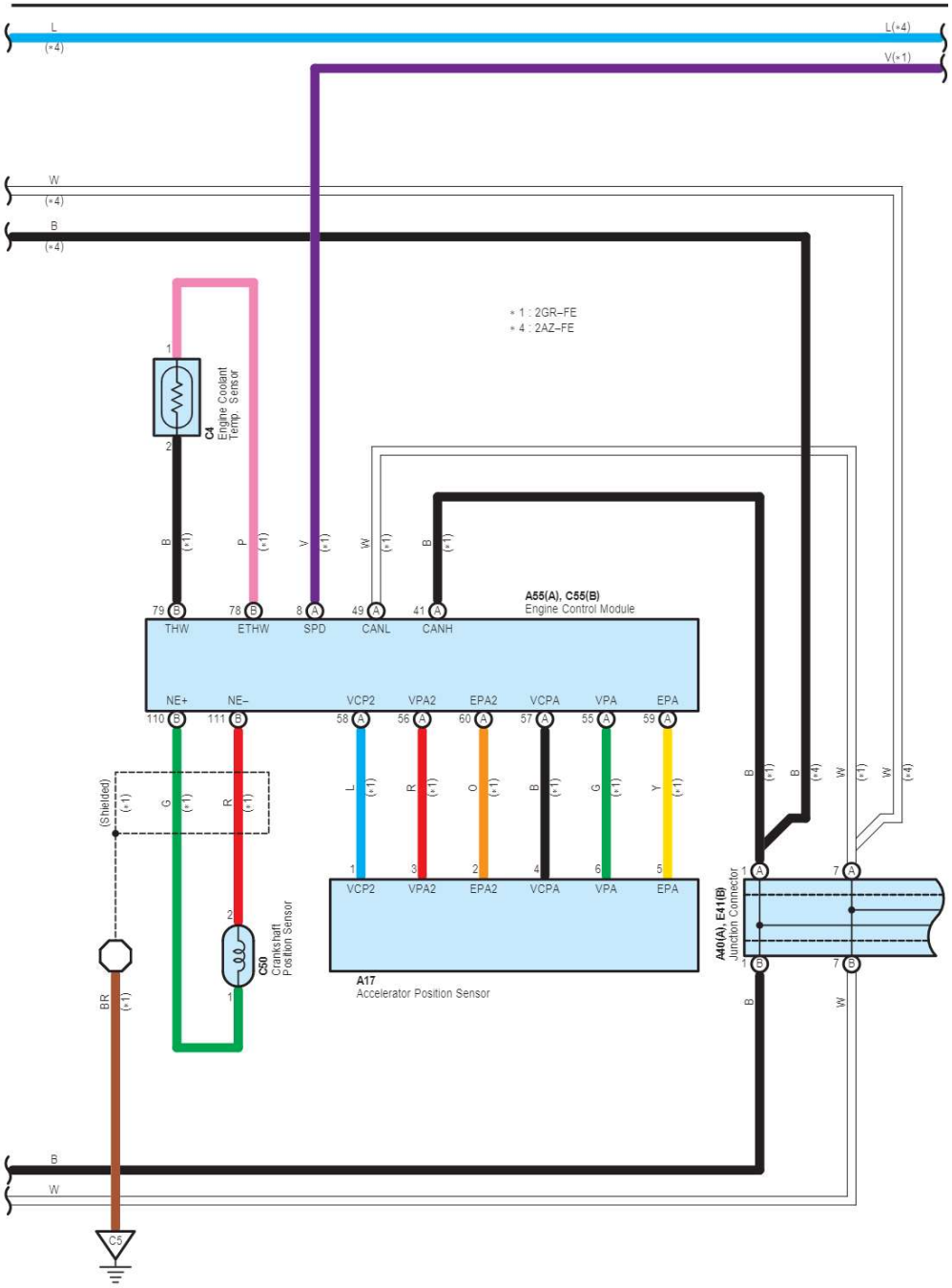

(BAT)
50A
HTR
(IG)
10A
A/C
NO. 2
A27
A/C Pressure Sensor
A2
Ambient
Temp. Sensor
E39
Blower Motor
A41(A), A42(B)
Junction
Connector
A58(A), E40(B)
Junction
Connector
E38(A), e1(B)
A/C Amplifier
MGC Relay
C21(A), C53(B)
A/C Compressor
Magnetic Clutch
Lock Sensor
Flow Control
Valve
MG+
SSR−
SSR+
SOL+
SOL−
TAM
LOCK
SOL+
SG−2
S5−3
PRE
E3
A1
A3

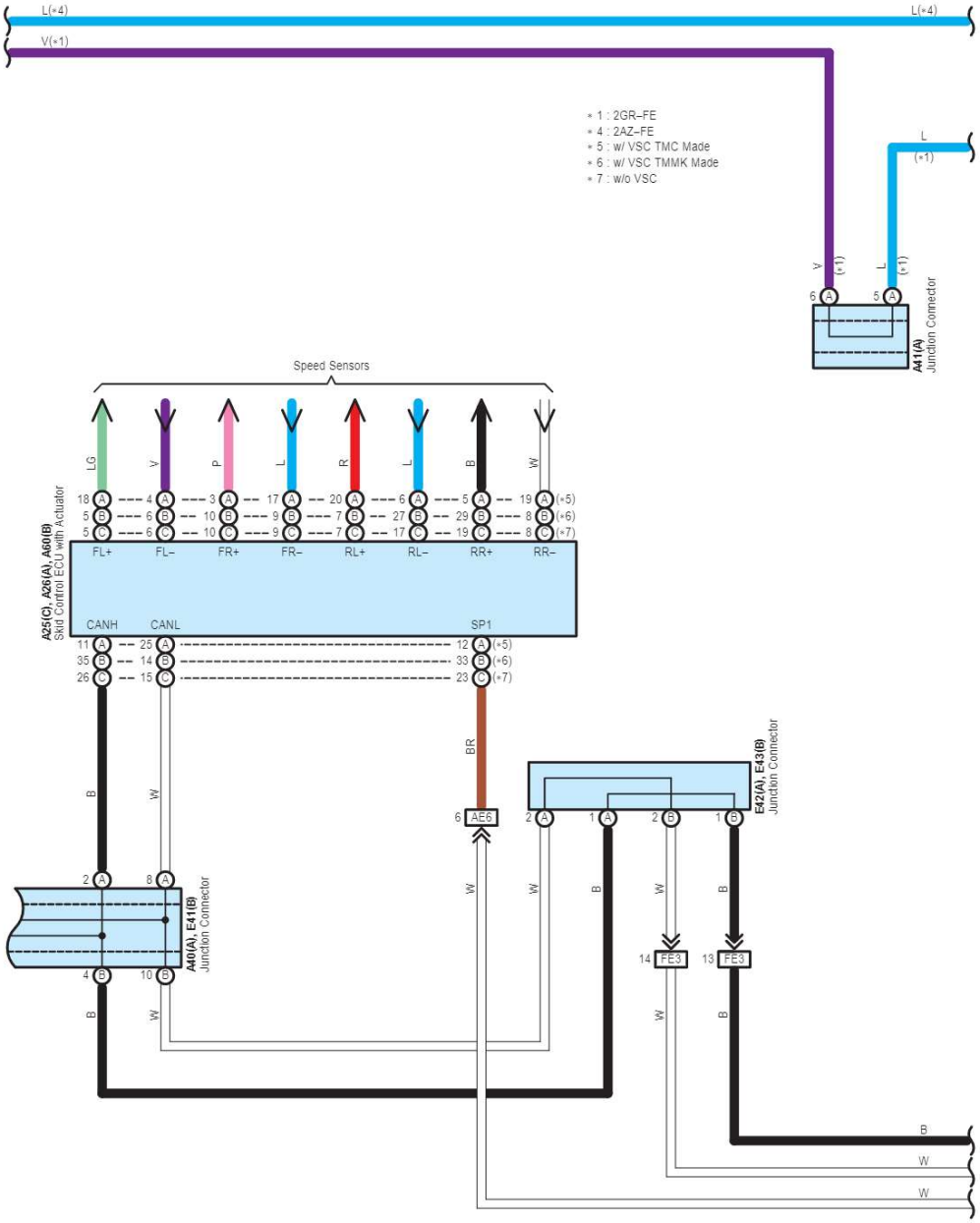

* 1 : 2GR-FE
* 2 : Automatic A/C
W-B(*2)
V
V
E12
Ion Generator
GND
IG
PCL
W-B
(*2)
(BAT)
7. 5A
A/C
8 1M
GR
2 3H
5 3M
V
R
(*2)
1 3L
1 3S
12 4L
10 4L
1 3M
2 3C
12 4D
11 4L
1 A
IG+
39 A
PCD1
21 A
B
E38(A), e1(B)
A/C Amplifier
MGC
BLW
GND
B BUS
BUS
BUS G
20 A
23 A
14 A
4 B
3 B
2 B
LG
(*1)
R
W-B
8 4L
6 4C
2 3M
3 3C
18 AE5
E49
Junction Connector
9
2
B
B(*1)
R
E2
Connector
Housing Color (Black)
Connector
Housing Color (Red)
M
Damper Servo Motor
(Air Inlet)
Damper Servo Motor
(Air Vent Mode)
e1(B)
A/C Blower Assembly

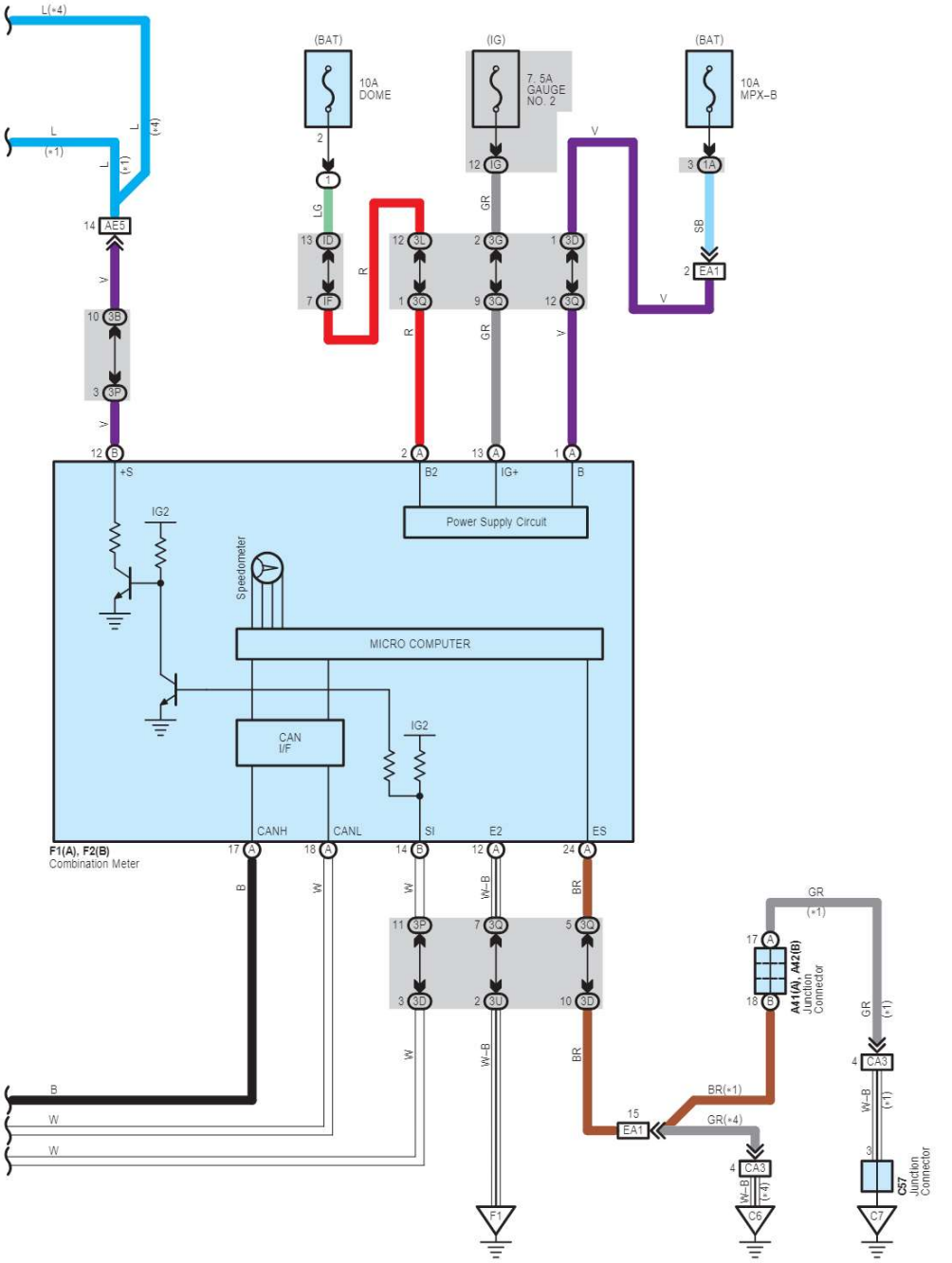

W–B(*2)
V
W–B(*2)
V
E27
A/C Room Temp. Sensor
E11(A)
Automatic Light Control Sensor
TSL
A/C Solar Sensor
TSR
P
LG
Y
O
(*2)
TR
SG–1
TSP
TSD
E38(A), e1(B)
A/C Amplifier
TEA
SGA
Connector Housing Color (Blue)
Connector Housing Color (Green)
A/C Evaporator Temp. Sensor
Damper Servo Motor (Air Mix Driver Side)
Damper Servo Motor (Air Mix Front Passenger Side) (*2) (Air Mix) (*3)
e1(B)
A/C Blower Assembly


* 2 : Automatic A/C
* 3 : Manual A/C
W–B(*2)
V
F16
A/C Control Assembly
IG+
TX+
ADI1
SG
GND
E38(A), e1(B)
A/C Amplifier
CANL
CANH
LIN1
AC1
EAC
E18(A), a1(B)
Spiral Cable
AUTO
OFF
TEMP+
TEMP–
Steering SW RH
a1(B)
Steering Pad SW
E49
Junction Connector
E1
E2


L
(*4)
W
(*4)
B
(*4)
C4
Engine Coolant
Temp. Sensor
B (*4)
P (*4)
L (*4)
W (*4)
B (*4)
97 B THW
96 B ETHW
8 A SPD
49 A CANL
41 A CANH
A24(A), C24(B)
Engine Control Module
NE+ 122 B
NE− 121 B
VCP2 58 A
EPA2 60 A
VCPA 57 A
EPA 59 A
VPA 55 A
VPA2 56 A
(Shielded)
G (*4)
R (*4)
L (*4)
O (*4)
B (*4)
Y (*4)
G (*4)
R (*4)
C20
Crankshaft
Position Sensor
CA3
W–B (*4)
B–W (*4)
1 VCP2
2 EPA2
4 VCPA
5 EPA
6 VPA
3 VPA2
A17
Accelerator Position Sensor
B
W
C4


L
(*4)
L(*4)
V(*1)
W
(*4)
B
(*4)
* 1 : 2GR–FE
* 4 : 2AZ–FE
C4
Engine Coolant Temp. Sensor
A55(A), C55(B)
Engine Control Module
THW
ETHW
SPD
CANL
CANH
NE+
NE–
VCP2
VPA2
EPA2
VCPA
VPA
EPA
(Shielded)
C50
Crankshaft Position Sensor
A17
Accelerator Position Sensor
A40(A), E41(B)
Junction Connector
BR
C5


L(*4)
V(*1)
L(*4)
* 1 : 2GR–FE
* 4 : 2AZ–FE
* 5 : w/ VSC TMC Made
* 6 : w/ VSC TMMK Made
* 7 : w/o VSC
L
(*1)
V
(*1)
L
(*1)
6
5
A41(A)
Junction Connector
Speed Sensors
LG
V
P
L
R
L
B
W
18 A
5 B
5 C
4 A
6 B
6 C
3 A
10 B
10 C
17 A
9 B
9 C
20 A
7 B
7 C
6 A
27 B
17 C
5 A
29 B
19 C
19 A (*5)
8 B (*6)
8 C (*7)
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
A25(C), A26(A), A60(B)
Skid Control ECU with Actuator
CANH
CANL
SP1
11 A
35 B
26 C
25 A
14 B
15 C
12 A (*5)
33 B (*6)
23 C (*7)
BR
6 AE6
E42(A), E43(B)
Junction Connector
2 A
1 A
2 B
1 B
B
W
2 A
8 A
4 B
10 B
A40(A), E41(B)
Junction Connector
14 FE3
13 FE3
B
W
W


L(*4)
L
(*1)
L
(*1)
L
(*4)
(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
14 AE5
10 3B
3 3P
12 B
+S
IG2
Speedometer
MICRO COMPUTER
CAN
I/F
IG2
CANH
CANL
SI
E2
ES
F1(A), F2(B)
Combination Meter
17 A
18 A
14 B
12 A
24 A
B
W
W
W
W–B
BR
2 1
LG
R
GR
V
12 3L
1 3Q
2 3G
9 3Q
1 3D
12 3Q
2 A
13 A
1 A
B2
IG+
B
Power Supply Circuit
11 3P
3 3D
7 3Q
2 3U
5 3Q
10 3D
15 EA1
BR(*1)
GR(*4)
17 A
18 B
A41(A), A42(B)
Junction
Connector
GR
(*1)
4 CA3
W–B
(*4)
C6
F1
GR
(*1)
4 CA3
W–B
(*1)
3
C57
Junction
Connector
C7
3 1A
2 EA1
SB

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A2		48 (2GR–FE)	A60	B	49 (2GR–FE)	E27		56
		52 (2AZ–FE)			53 (2AZ–FE)	E38	A	57
A17		59	C4		50 (2GR–FE)	E39		57
A24	A	52 (2AZ–FE)			54 (2AZ–FE)	E40	B	57
A25	C	48 (2GR–FE)	C20		55 (2AZ–FE)	E41	B	57
		52 (2AZ–FE)	C21	A	50 (2GR–FE)	E42	A	57
A26	A	48 (2GR–FE)			55 (2AZ–FE)	E43	B	57
		52 (2AZ–FE)	C24	B	55 (2AZ–FE)	E49		57
A27		48 (2GR–FE)	C50		51 (2GR–FE)	F1	A	58
		52 (2AZ–FE)	C53	B	51 (2GR–FE)	F2	B	58
A40	A	59	C55	B	51 (2GR–FE)	F16		58
A41	A	59	C57		51 (2GR–FE)	a1	B	59
A42	B	59	E11	A	56	e1	B	59
A55	A	49 (2GR–FE)	E12		56			
A58	A	59	E18	A	56			

⬭ : **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**

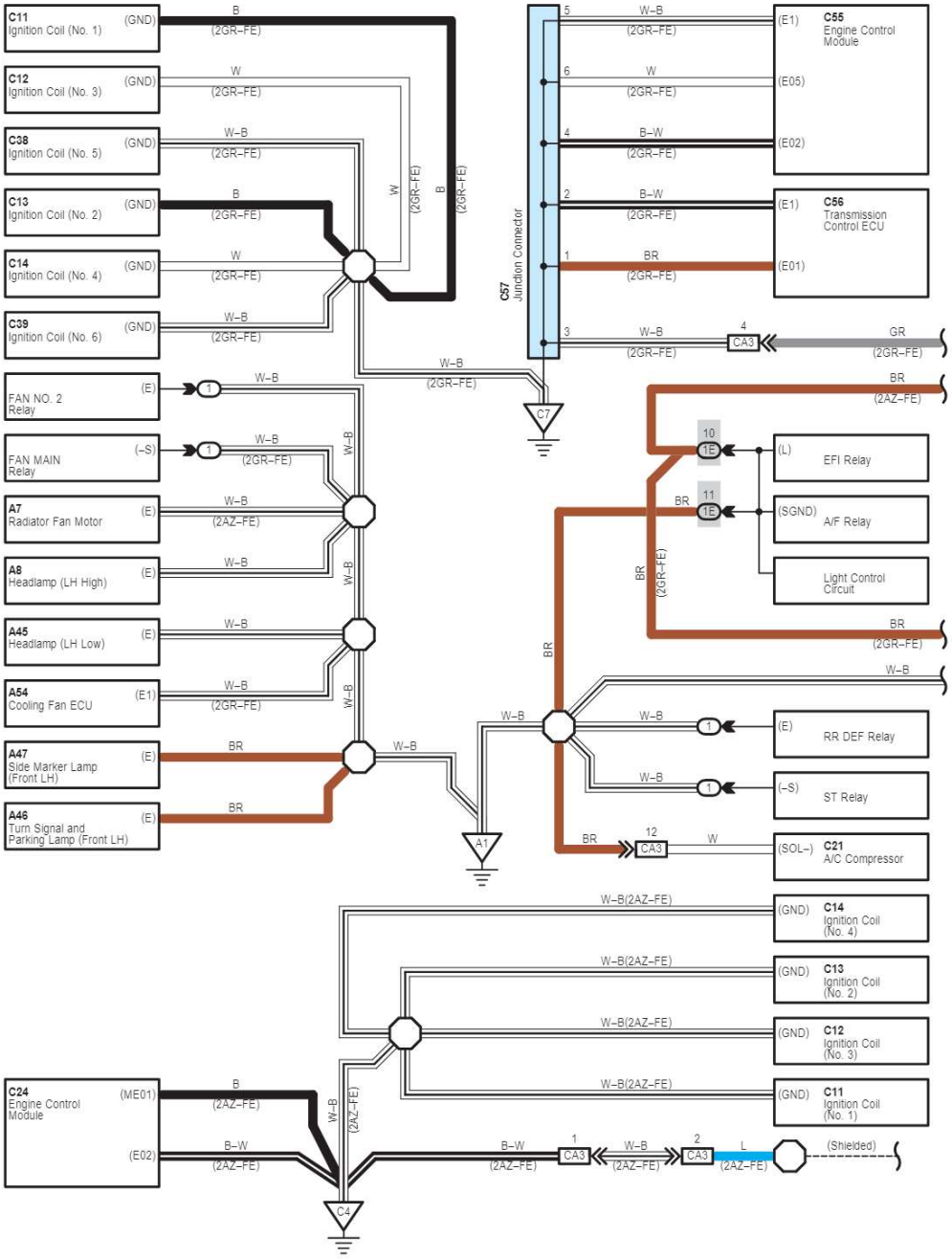
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3G		
3H		
3J		
3K		
3L		
3M		
3P	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
4L		
4M		
ID	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	31	
IM	30	

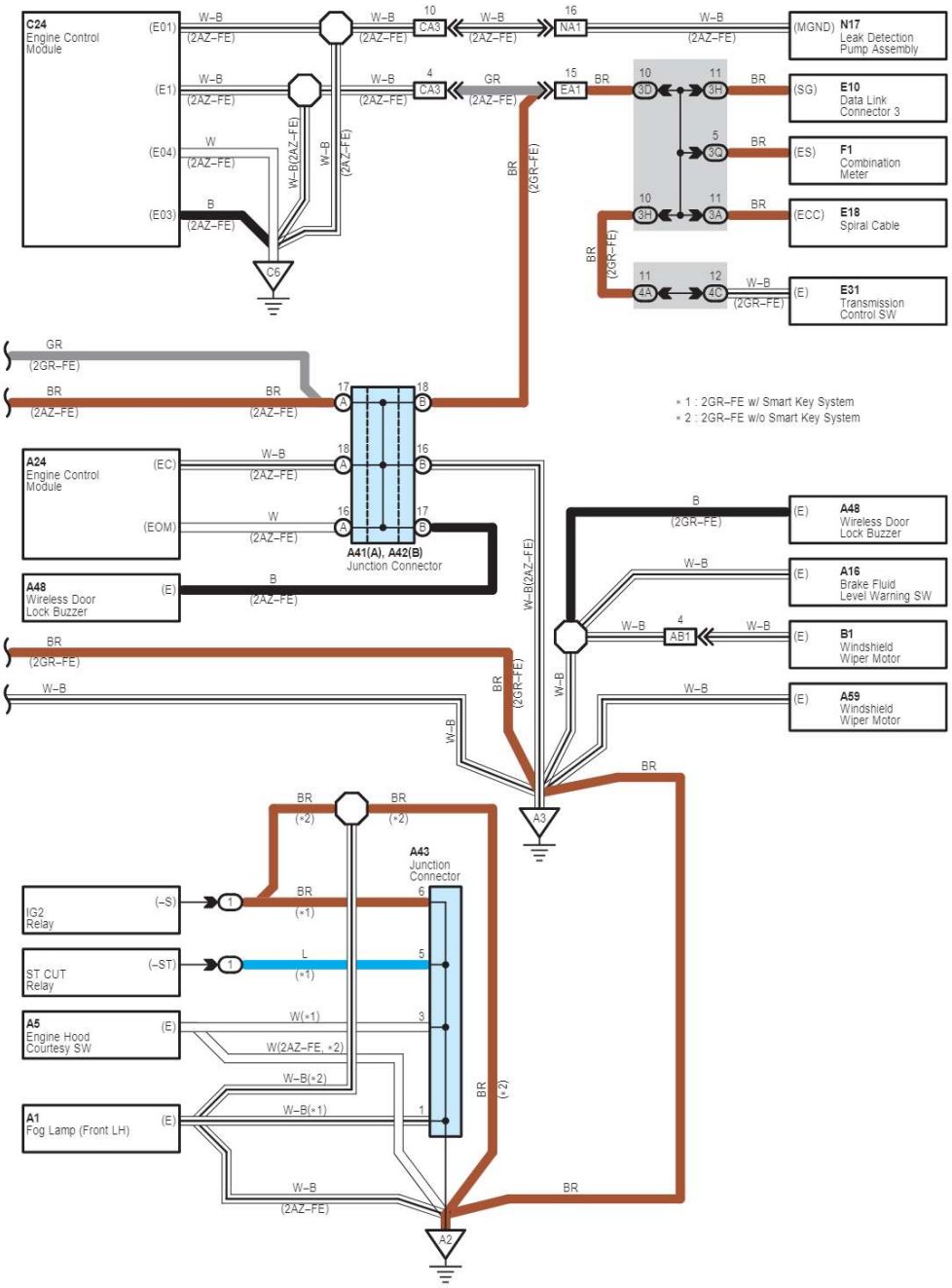
: **Connector Joining Wire Harness and Wire Harness**

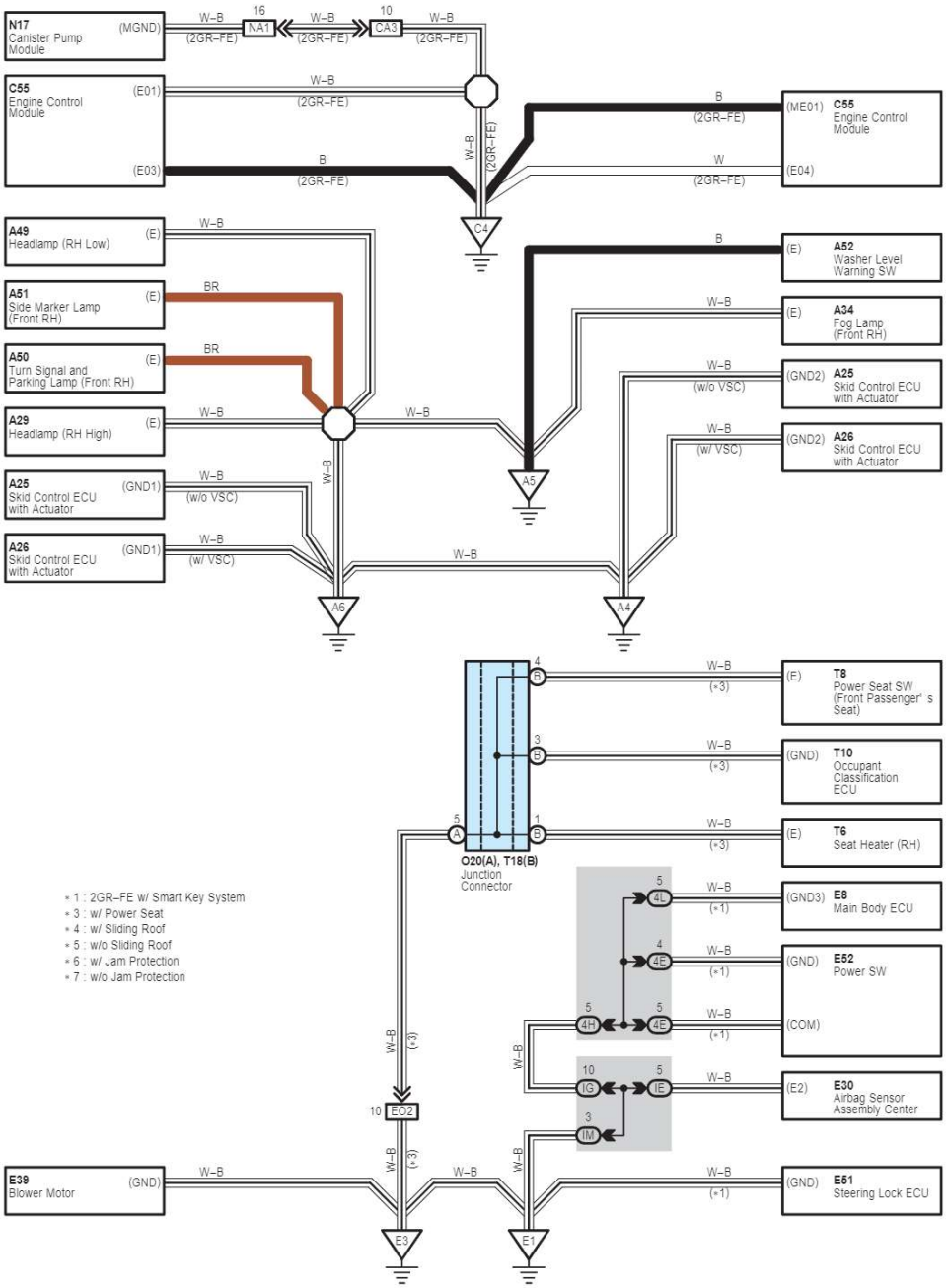
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
AE6		
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

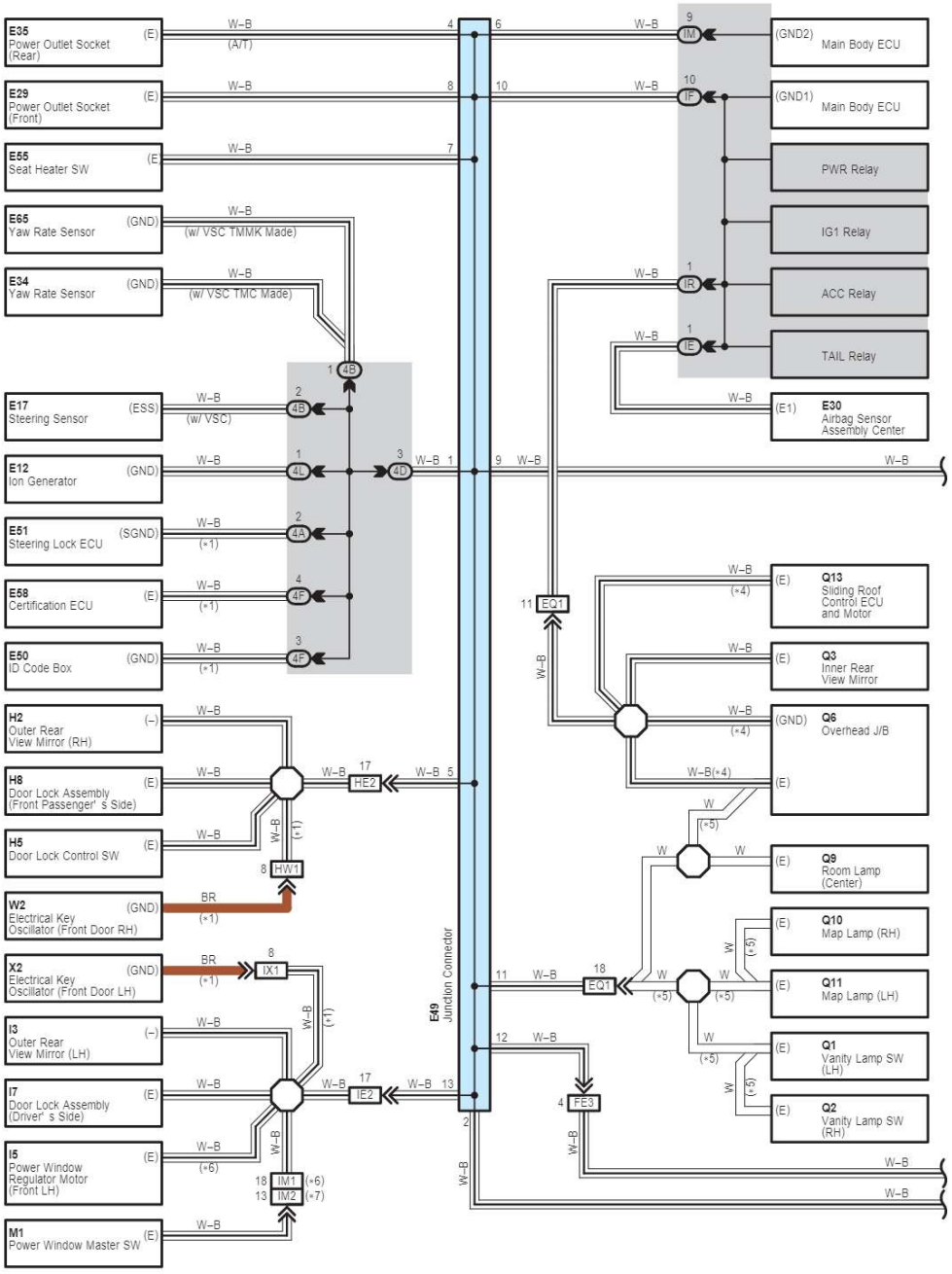
: **Ground Points**

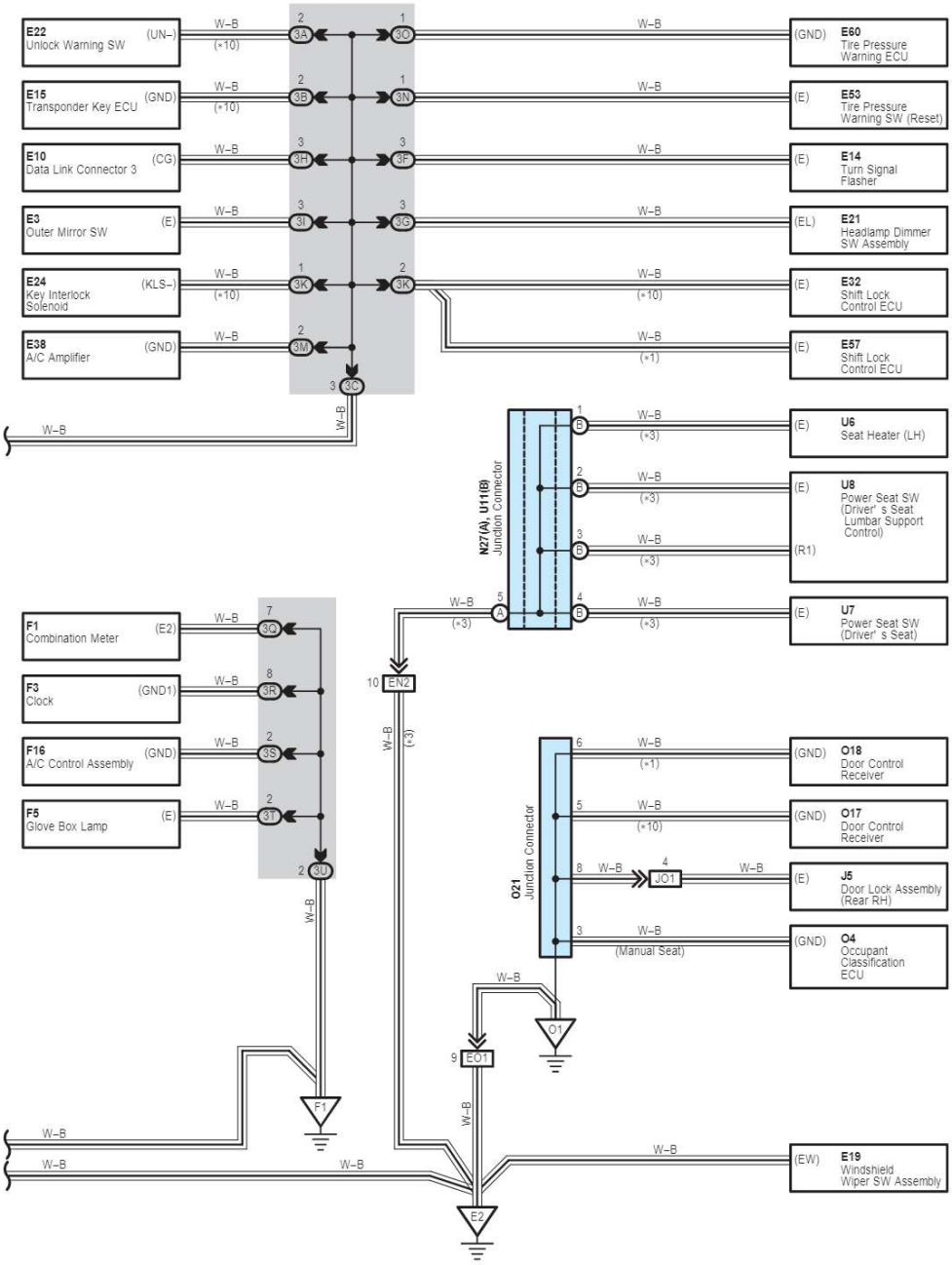
Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel
C4	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E2	66	Instrument Panel Brace LH
E3	66	Instrument Panel Right
F1	66	Instrument Panel Left

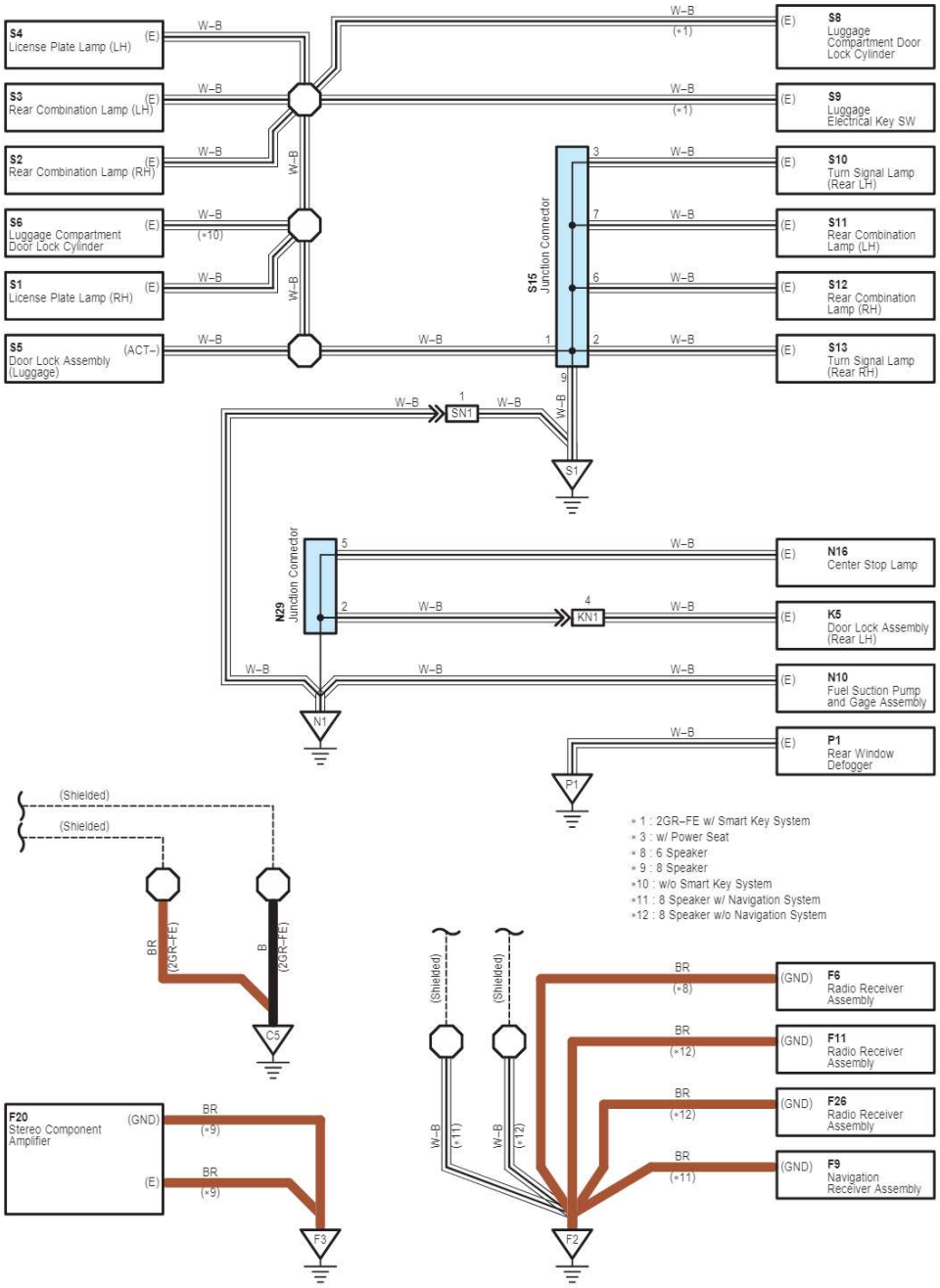

C11 Ignition Coil (No. 1) (GND)
C12 Ignition Coil (No. 3) (GND)
C38 Ignition Coil (No. 5) (GND)
C13 Ignition Coil (No. 2) (GND)
C14 Ignition Coil (No. 4) (GND)
C39 Ignition Coil (No. 6) (GND)
FAN NO. 2 Relay
FAN MAIN Relay
A7 Radiator Fan Motor
A8 Headlamp (LH High)
A45 Headlamp (LH Low)
A54 Cooling Fan ECU
A47 Side Marker Lamp (Front LH)
A46 Turn Signal and Parking Lamp (Front LH)
C24 Engine Control Module
C57 Junction Connector
C55 Engine Control Module
C56 Transmission Control ECU
EFI Relay
A/F Relay
Light Control Circuit
RR DEF Relay
ST Relay
C21 A/C Compressor
C14 Ignition Coil (No. 4)
C13 Ignition Coil (No. 2)
C12 Ignition Coil (No. 3)
C11 Ignition Coil (No. 1)
C7
A1
C4
CA3


C24
Engine Control Module
(E01)
(E1)
(E04)
(E03)
W–B (2AZ–FE)
W (2AZ–FE)
B (2AZ–FE)
W–B(2AZ–FE)
(2AZ–FE)
C6
CA3
NA1
EA1
16
10
4
15
GR (2AZ–FE)
BR (2GR–FE)
(MGND) N17 Leak Detection Pump Assembly
(SG) E10 Data Link Connector 3
(ES) F1 Combination Meter
(ECC) E18 Spiral Cable
(E) E31 Transmission Control SW
3D
3H
3Q
3A
4A
4C
11
12
5
GR (2GR–FE)
BR (2AZ–FE)
17
18
A
B
* 1 : 2GR–FE w/ Smart Key System
* 2 : 2GR–FE w/o Smart Key System
A24
Engine Control Module
(EC)
(EOM)
A41(A), A42(B)
Junction Connector
A48
Wireless Door Lock Buzzer
(E)
W–B(2AZ–FE)
(E) A48 Wireless Door Lock Buzzer
(E) A16 Brake Fluid Level Warning SW
(E) B1 Windshield Wiper Motor
(E) A59 Windshield Wiper Motor
AB1
A3
A43
Junction Connector
IG2 Relay
(–S)
ST CUT Relay
(–ST)
A5
Engine Hood Courtesy SW
A1
Fog Lamp (Front LH)
BR (*2)
BR (*1)
L (*1)
W(*1)
W(2AZ–FE, *2)
W–B(*2)
W–B(*1)
A2


N17 Canister Pump Module (MGND)
C55 Engine Control Module (E01) (E03)
A49 Headlamp (RH Low) (E)
A51 Side Marker Lamp (Front RH) (E)
A50 Turn Signal and Parking Lamp (Front RH) (E)
A29 Headlamp (RH High) (E)
A25 Skid Control ECU with Actuator (GND1)
A26 Skid Control ECU with Actuator (GND1)
E39 Blower Motor (GND)
W–B (2GR–FE)
B (2GR–FE)
BR
NA1
CA3
C4
A5
A6
A4
(ME01) C55 Engine Control Module
(E04)
(E) A52 Washer Level Warning SW
(E) A34 Fog Lamp (Front RH)
(GND2) A25 Skid Control ECU with Actuator
(GND2) A26 Skid Control ECU with Actuator
(w/o VSC)
(w/ VSC)
O20(A), T18(B) Junction Connector
(E) T8 Power Seat SW (Front Passenger' s Seat)
(GND) T10 Occupant Classification ECU
(E) T6 Seat Heater (RH)
(GND3) E8 Main Body ECU
(GND) E52 Power SW
(COM)
(E2) E30 Airbag Sensor Assembly Center
(GND) E51 Steering Lock ECU
EO2
E3
E1
(*3)
(*1)
* 1 : 2GR–FE w/ Smart Key System
* 3 : w/ Power Seat
* 4 : w/ Sliding Roof
* 5 : w/o Sliding Roof
* 6 : w/ Jam Protection
* 7 : w/o Jam Protection


E35 Power Outlet Socket (Rear)
E29 Power Outlet Socket (Front)
E55 Seat Heater SW
E65 Yaw Rate Sensor
E34 Yaw Rate Sensor
E17 Steering Sensor
E12 Ion Generator
E51 Steering Lock ECU
E58 Certification ECU
E50 ID Code Box
H2 Outer Rear View Mirror (RH)
H8 Door Lock Assembly (Front Passenger's Side)
H5 Door Lock Control SW
W2 Electrical Key Oscillator (Front Door RH)
X2 Electrical Key Oscillator (Front Door LH)
I3 Outer Rear View Mirror (LH)
I7 Door Lock Assembly (Driver's Side)
I5 Power Window Regulator Motor (Front LH)
M1 Power Window Master SW
E49 Junction Connector
Main Body ECU
Main Body ECU
PWR Relay
IG1 Relay
ACC Relay
TAIL Relay
E30 Airbag Sensor Assembly Center
Q13 Sliding Roof Control ECU and Motor
Q3 Inner Rear View Mirror
Q6 Overhead J/B
Q9 Room Lamp (Center)
Q10 Map Lamp (RH)
Q11 Map Lamp (LH)
Q1 Vanity Lamp SW (LH)
Q2 Vanity Lamp SW (RH)
W-B
BR
W


E22
Unlock Warning SW
(UN–)
E15
Transponder Key ECU
(GND)
E10
Data Link Connector 3
(CG)
E3
Outer Mirror SW
(E)
E24
Key Interlock Solenoid
(KLS–)
E38
A/C Amplifier
(GND)
W–B
(*10)
3A
3B
3H
3I
3K
3M
3O
3N
3F
3G
3K
3C
(GND)
E60
Tire Pressure Warning ECU
(E)
E53
Tire Pressure Warning SW (Reset)
(E)
E14
Turn Signal Flasher
(EL)
E21
Headlamp Dimmer SW Assembly
(E)
E32
Shift Lock Control ECU
(E)
E57
Shift Lock Control ECU
(*1)
N27(A), U11(B)
Junction Connector
(*3)
(E)
U6
Seat Heater (LH)
U8
Power Seat SW (Driver' s Seat Lumbar Support Control)
(R1)
U7
Power Seat SW (Driver' s Seat)
F1
Combination Meter
(E2)
F3
Clock
(GND1)
F16
A/C Control Assembly
(GND)
F5
Glove Box Lamp
(E)
3Q
3R
3S
3T
3U
EN2
EO1
O21
Junction Connector
(*1)
(*10)
(GND)
O18
Door Control Receiver
O17
Door Control Receiver
JO1
J5
Door Lock Assembly (Rear RH)
O4
Occupant Classification ECU
(Manual Seat)
O1
F1
E2
(EW)
E19
Windshield Wiper SW Assembly


S4 License Plate Lamp (LH) (E)
S3 Rear Combination Lamp (LH) (E)
S2 Rear Combination Lamp (RH) (E)
S6 Luggage Compartment Door Lock Cylinder (E)
S1 License Plate Lamp (RH) (E)
S5 Door Lock Assembly (Luggage) (ACT–)
W–B
S15 Junction Connector
S8 Luggage Compartment Door Lock Cylinder
S9 Luggage Electrical Key SW
S10 Turn Signal Lamp (Rear LH)
S11 Rear Combination Lamp (LH)
S12 Rear Combination Lamp (RH)
S13 Turn Signal Lamp (Rear RH)
SN1
S1
N29 Junction Connector
KN1
N16 Center Stop Lamp
K5 Door Lock Assembly (Rear LH)
N10 Fuel Suction Pump and Gage Assembly
N1
P1 Rear Window Defogger
(Shielded)
BR (2GR–FE)
B (2GR–FE)
C5
F20 Stereo Component Amplifier (GND) (E)
F3
F6 Radio Receiver Assembly (GND)
F11 Radio Receiver Assembly (GND)
F26 Radio Receiver Assembly (GND)
F9 Navigation Receiver Assembly (GND)
F2
*1 : 2GR–FE w/ Smart Key System
*3 : w/ Power Seat
*8 : 6 Speaker
*9 : 8 Speaker
*10 : w/o Smart Key System
*11 : 8 Speaker w/ Navigation System
*12 : 8 Speaker w/o Navigation System

I GROUND POINT

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A41	A	59	E49		57	O21		60
A42	B	59	N27	A	62 (*1)	S15		61
A43		49 (2GR–FE)	N29		60	T18	B	62 (*1)
C57		51 (2GR–FE)	O20	A	62 (*1)	U11	B	62 (*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)
1E	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3F		
3G		
3H		
3I		
3K		
3M		
3N		
3O		
3Q	36	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3R		
3S		
3T		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4B		
4C		
4D		
4E		
4F		
4H		
4L		
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IF		
IG	31	
IM	30	
IR		

* 1 : w/ Power Seat * 2 : w/o Power Seat

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

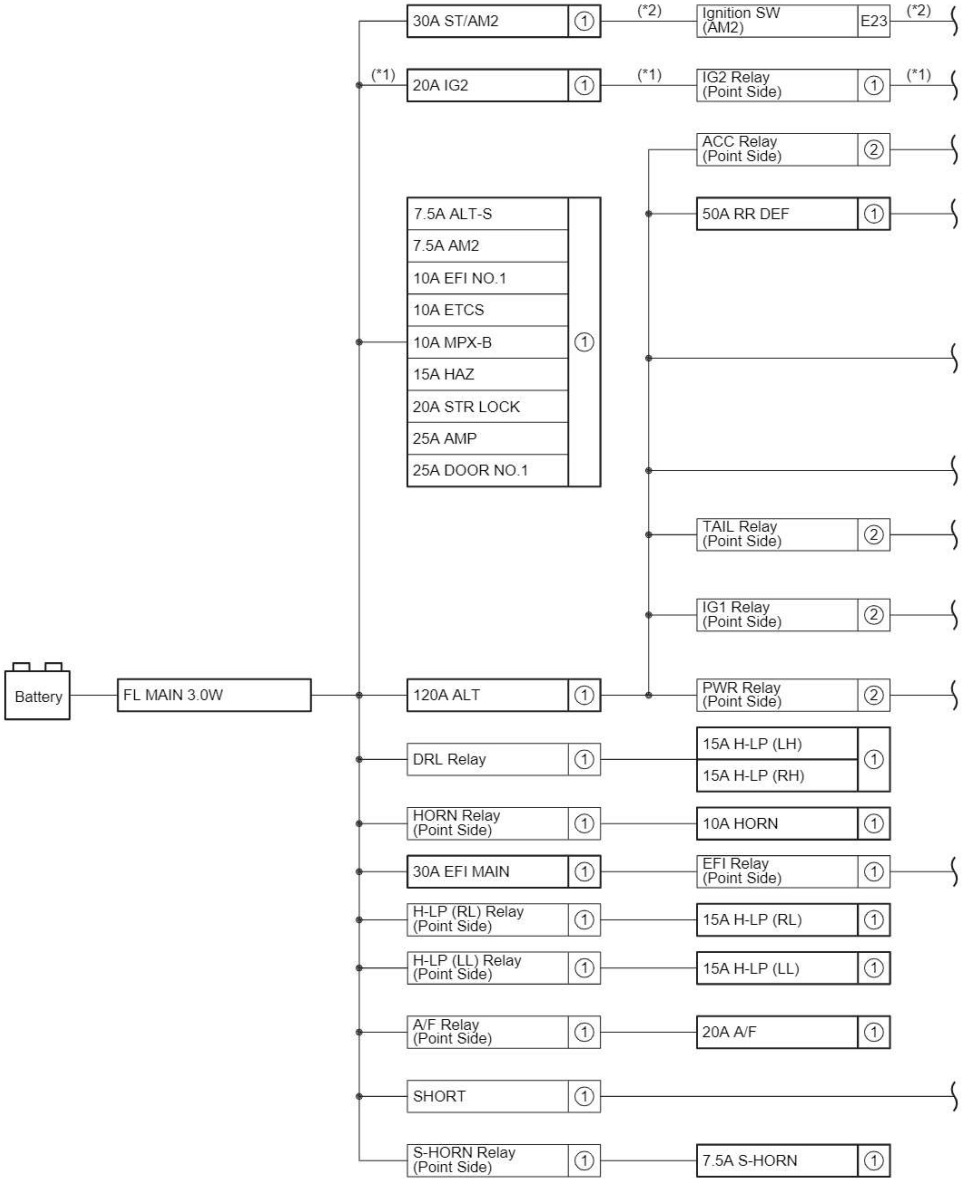
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AB1	64 (2GR–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Near the Windshield Wiper Motor)
	65 (2AZ–FE)	
CA3	64 (2GR–FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	65 (2AZ–FE)	
EA1	66	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EO2		
EQ1	66	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
FE3	66	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
HE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HW1	67	Front Door RH Wire and Electrical Key Wire Harness RH (Inside of the Front Door RH)
IE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	67	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
IM2		
IX1	67	Front Door LH Wire and Electrical Key Wire Harness LH (Inside of the Front Door LH)
JO1	67	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
KN1	67	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
NA1	66	Floor Wire and Engine Room Main Wire (Left Kick Panel)
QR1	67	Roof Wire and Roof No.2 Wire (Near the Overhead J/B)
SN1	67	Luggage Room Wire and Floor Wire (Luggage Room Left)

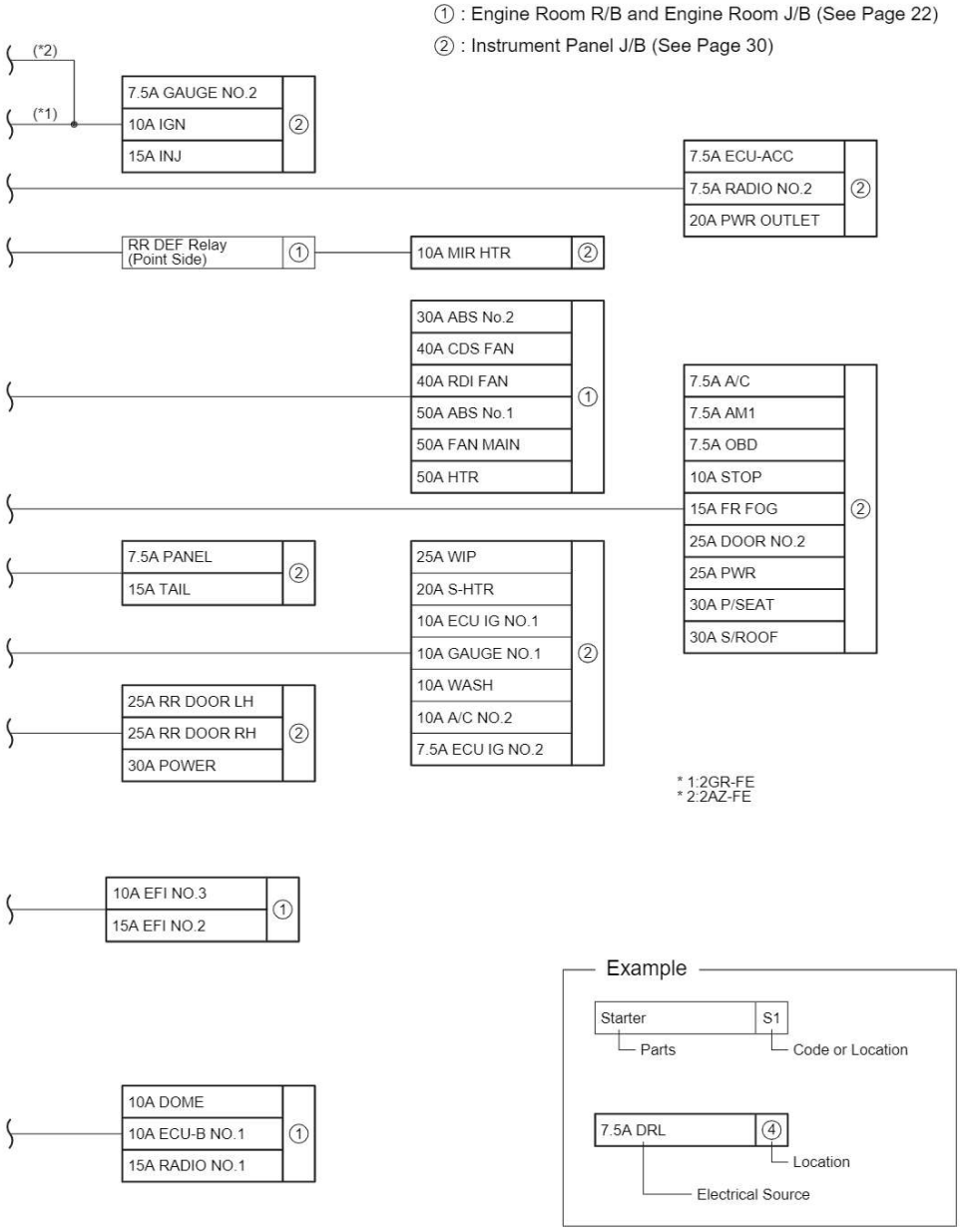
: **Ground Points**

Code	See Page	Ground Points Location
A1	64 (2GR–FE)	Front Left Fender
	65 (2AZ–FE)	
A2	64 (2GR–FE)	
	65 (2AZ–FE)	
A3	66	Left Cowl Side Panel
A4	64 (2GR–FE)	Near the Skid Control ECU with Actuator
	65 (2AZ–FE)	
A5	64 (2GR–FE)	Front Right Fender
	65 (2AZ–FE)	
A6	66	Right Cowl Side Panel
C4	64 (2GR–FE)	Cylinder Head
	65 (2AZ–FE)	Cylinder Block
C5	64 (2GR–FE)	Right Side of the Cylinder Block
C6	65 (2AZ–FE)	Cylinder Block
C7	64 (2GR–FE)	Left Side of the Cylinder Block
E1	66	Instrument Panel Left
E2	66	Instrument Panel Brace LH
E3	66	Instrument Panel Right
F1	66	Instrument Panel Left
F2	66	Instrument Panel Brace RH
F3	66	Under the Front Passenger's Seat
N1	67	Left Rear Quarter Panel
O1	67	Right Rear Quarter Panel
P1		
S1	67	Lower Back Panel Center

J POWER SOURCE (Current Flow Chart)

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




① : Engine Room R/B and Engine Room J/B (See Page 22)
② : Instrument Panel J/B (See Page 30)
(*2)
(*1)
7.5A GAUGE NO.2
10A IGN
15A INJ
②
7.5A ECU-ACC
7.5A RADIO NO.2
20A PWR OUTLET
②
RR DEF Relay (Point Side)
①
10A MIR HTR
②
30A ABS No.2
40A CDS FAN
40A RDI FAN
50A ABS No.1
50A FAN MAIN
50A HTR
①
7.5A A/C
7.5A AM1
7.5A OBD
10A STOP
15A FR FOG
25A DOOR NO.2
25A PWR
30A P/SEAT
30A S/ROOF
②
7.5A PANEL
15A TAIL
②
25A WIP
20A S-HTR
10A ECU IG NO.1
10A GAUGE NO.1
10A WASH
10A A/C NO.2
7.5A ECU IG NO.2
②
25A RR DOOR LH
25A RR DOOR RH
30A POWER
②
* 1:2GR-FE
* 2:2AZ-FE
10A EFI NO.3
15A EFI NO.2
①
Example
Starter
S1
Parts
Code or Location
7.5A DRL
④
Location
Electrical Source
10A DOME
10A ECU-B NO.1
15A RADIO NO.1
①

Engine Room R/B and Engine Room J/B (See Page 22)

Fuse		System	Page
7.5A	ALT–S	Charging	100
7.5A	AM2	Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2GR–FE)	108
		Ignition (2GR–FE)	102
		Smart Key System	78
7.5A	S–HORN	Smart Key System	78
		Theft Deterrent	230
10A	DOME	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Air Conditioning	386
		Audio System (6 Speaker)	360
		Audio System (8 Speaker w/o Navigation System)	354
		Clock	202
		Combination Meter	364
		Cooling Fan (2GR–FE)	374
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Door Lock Control and Luggage Compartment Door Opener	214
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Fog Light	150
		Garage Door Opener	336
		Headlight	144
		Interior Light	164
		Key Reminder (w/o Smart Key System) and Seat Belt Warning	190
		Navigation System and Audio System (8 Speaker)	346
		Radiator Fan and Condenser Fan (2AZ–FE)	380
		Sliding Roof	330
		Smart Key System	78
		SRS	273
		Taillight and Illumination	172
		Theft Deterrent	230
		Tire Pressure Warning System	270
		Wireless Door Lock Control (w/o Smart Key System)	224
10A	ECU–B NO.1	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		Automatic Light Control and Light Auto Turn Off System	160
		Door Lock Control and Luggage Compartment Door Opener	214
		Fog Light	150

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

Fuse		System	Page
10A	ECU–B NO.1	Headlight	144
		Interior Light	164
		Key Reminder (w/o Smart Key System) and Seat Belt Warning	190
		Power Window	206
		Sliding Roof	330
		SRS	273
		Taillight and Illumination	172
		Theft Deterrent	230
		Wireless Door Lock Control (w/o Smart Key System)	224
10A	EFI NO.1	Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Engine Immobiliser System (w/o Smart Key System)	138
		Smart Key System	78
10A	EFI NO.3	Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
10A	ETCS	Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
10A	HORN	Horn	204
		Smart Key System	78
		Theft Deterrent	230
10A	MPX–B	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Air Conditioning	386
		Audio System (6 Speaker)	360
		Audio System (8 Speaker w/o Navigation System)	354
		Combination Meter	364
		Cooling Fan (2GR–FE)	374
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Door Lock Control and Luggage Compartment Door Opener	214
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126

* 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	MPX–B	Engine Control (2GR–FE)	108
		Fog Light	150
		Headlight	144
		Key Reminder (w/o Smart Key System) and Seat Belt Warning	190
		Navigation System and Audio System (8 Speaker)	346
		Radiator Fan and Condenser Fan (2AZ–FE)	380
		Sliding Roof	330
		Smart Key System	78
		SRS	273
		Taillight and Illumination	172
		Tire Pressure Warning System	270
15A	EFI NO.2	Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
15A	HAZ	Turn Signal and Hazard Warning Light	182
15A	H–LP (LH)	Headlight	144
15A	H–LP (LL)	Headlight	144
15A	H–LP (RH)	Headlight	144
15A	H–LP (RL)	Headlight	144
15A	RADIO NO.1	Audio System (6 Speaker)	360
		Audio System (8 Speaker w/o Navigation System)	354
		Navigation System and Audio System (8 Speaker)	346
20A	A/F	Engine Control (2GR–FE)	108
20A	IG2	Combination Meter	364
		Engine Control (2GR–FE)	108
		Ignition (2GR–FE)	102
		Smart Key System	78
20A	STR LOCK	Smart Key System	78
25A	AMP	Audio System (8 Speaker w/o Navigation System)	354
		Navigation System and Audio System (8 Speaker)	346
25A	DOOR NO.1	Automatic Light Control and Light Auto Turn Off System	160
		Door Lock Control and Luggage Compartment Door Opener	214
		Fog Light	150
		Headlight	144
		Interior Light	164
		Power Window	206
		Sliding Roof	330
		Smart Key System	78
		Taillight and Illumination	172
		Theft Deterrent	230

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

Fuse		System	Page
30A	ABS No.2	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
30A	EFI MAIN	Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
30A	S/ROOF	Sliding Roof	330
30A	ST/AM2	Engine Control (2GR–FE)	108
		Ignition (2GR–FE)	102
		Smart Key System	78
		Starting (w/o Smart Key System)	96
40A	CDS FAN	Radiator Fan and Condenser Fan (2AZ–FE)	380
40A	RDI FAN	Radiator Fan and Condenser Fan (2AZ–FE)	380
50A	ABS No.1	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
50A	FAN MAIN	Cooling Fan (2GR–FE)	374
50A	HTR	Air Conditioning	386
50A	RR DEF	Rear Window Defogger and Mirror Heater	342
120A	ALT	Automatic Light Control and Light Auto Turn Off System	160
		Charging	100
		Fog Light	150
		Power Window	206
		Starting (w/o Smart Key System)	96
		Taillight and Illumination	172
		Theft Deterrent	230

Instrument Panel J/B (See Page 30)

Fuse		System	Page
7.5A	A/C	Air Conditioning	386
7.5A	AM1	Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Starting (w/o Smart Key System)	96
7.5A	ECU IG NO.2	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Shift Lock	320

* 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	ECU–ACC	Automatic Light Control and Light Auto Turn Off System	160
		Clock	202
		Door Lock Control and Luggage Compartment Door Opener	214
		Fog Light	150
		Headlight	144
		Interior Light	164
		Power Window	206
		Remote Control Mirror	340
		Shift Lock	320
		Sliding Roof	330
		Smart Key System	78
		Taillight and Illumination	172
		Theft Deterrent	230
		Wireless Door Lock Control (w/o Smart Key System)	224
7.5A	GAUGE NO.2	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Air Conditioning	386
		Audio System (6 Speaker)	360
		Audio System (8 Speaker w/o Navigation System)	354
		Charging	100
		Combination Meter	364
		Cooling Fan (2GR–FE)	374
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Door Lock Control and Luggage Compartment Door Opener	214
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Fog Light	150
		Headlight	144
		Key Reminder (w/o Smart Key System) and Seat Belt Warning	190
		Navigation System and Audio System (8 Speaker)	346
		Radiator Fan and Condenser Fan (2AZ–FE)	380
		Sliding Roof	330
		Smart Key System	78
		SRS	273
		Taillight and Illumination	172
		Tire Pressure Warning System	270
7.5A	OBD	Data Link Connector 3	140
7.5A	PANEL	Taillight and Illumination	172

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

Fuse		System	Page
7.5A	RADIO NO.2	Audio System (6 Speaker)	360
		Audio System (8 Speaker w/o Navigation System)	354
		Navigation System and Audio System (8 Speaker)	346
10A	A/C NO.2	Air Conditioning	386
		Cooling Fan (2GR–FE)	374
		Radiator Fan and Condenser Fan (2AZ–FE)	380
		Rear Window Defogger and Mirror Heater	342
10A	ECU IG NO.1	Automatic Glare–Resistant EC Mirror	338
		Automatic Light Control and Light Auto Turn Off System	160
		Cooling Fan (2GR–FE)	374
		Door Lock Control and Luggage Compartment Door Opener	214
		Fog Light	150
		Headlight	144
		Interior Light	164
		Power Window	206
		Radiator Fan and Condenser Fan (2AZ–FE)	380
		Sliding Roof	330
		Smart Key System	78
		Taillight and Illumination	172
		Theft Deterrent	230
		Tire Pressure Warning System	270
		Wireless Door Lock Control (w/o Smart Key System)	224
10A	GAUGE NO.1	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Back–Up Light	188
		Charging	100
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Door Lock Control and Luggage Compartment Door Opener	214
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Navigation System and Audio System (8 Speaker)	346
		Shift Lock	320
		Turn Signal and Hazard Warning Light	182
10A	IGN	Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Engine Immobiliser System (w/o Smart Key System)	138
		Key Reminder (w/o Smart Key System) and Seat Belt Warning	190

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

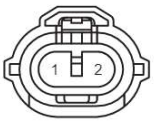
J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
10A	IGN	Smart Key System	78
		SRS	273
10A	MIR HTR	Rear Window Defogger and Mirror Heater	342
10A	STOP	ABS (w/ VSC), TRAC and VSC (TMC Made)	242
		ABS (w/ VSC), TRAC and VSC (TMMK Made)	252
		ABS (w/o VSC)	262
		Cruise Control (2AZ–FE)	292
		Cruise Control (2GR–FE)	282
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	312
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	300
		Engine Control (2AZ–FE)	126
		Engine Control (2GR–FE)	108
		Shift Lock	320
		Smart Key System	78
		Stop Light	186
10A	WASH	Wiper and Washer	196
15A	FR FOG	Fog Light	150
15A	INJ	Combination Meter	364
		Engine Control (2AZ–FE)	126
		Ignition (2AZ–FE)	106
15A	TAIL	Fog Light	150
		Taillight and Illumination	172
20A	PWR OUTLET	Power Outlet	200
20A	S–HTR	Seat Heater	328
25A	DOOR NO.2	Automatic Light Control and Light Auto Turn Off System	160
		Door Lock Control and Luggage Compartment Door Opener	214
		Fog Light	150
		Headlight	144
		Interior Light	164
		Power Window	206
		Sliding Roof	330
		Smart Key System	78
		Taillight and Illumination	172
		Theft Deterrent	230
25A	PWR	Power Window	206
25A	RR DOOR LH	Power Window	206
25A	RR DOOR RH	Power Window	206
25A	WIP	Wiper and Washer	196
30A	POWER	Power Window	206
30A	P/SEAT	Power Seat (Driver's Seat)	322
		Power Seat (Front Passenger's Seat)	326

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

K CONNECTOR LIST

A1
Black



A2
Black



A3
Black



A4
Black



A5
Black



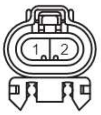
A6
Gray



A7
Black



A8
Black



A13
Yellow



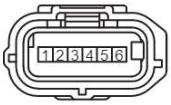
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Black



A16
Gray



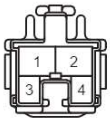
A17
Black



A18



A19
Blue



A21



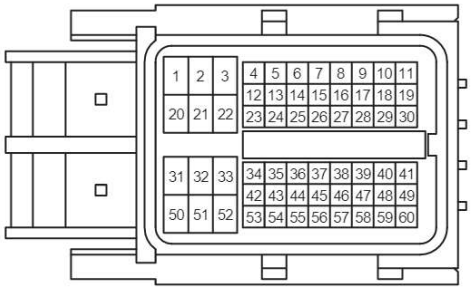
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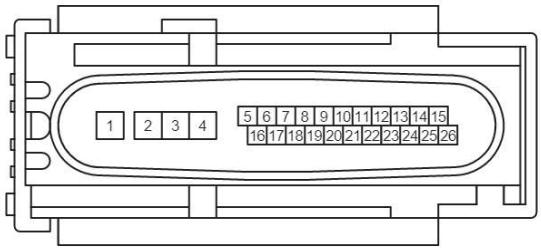
A23
Black

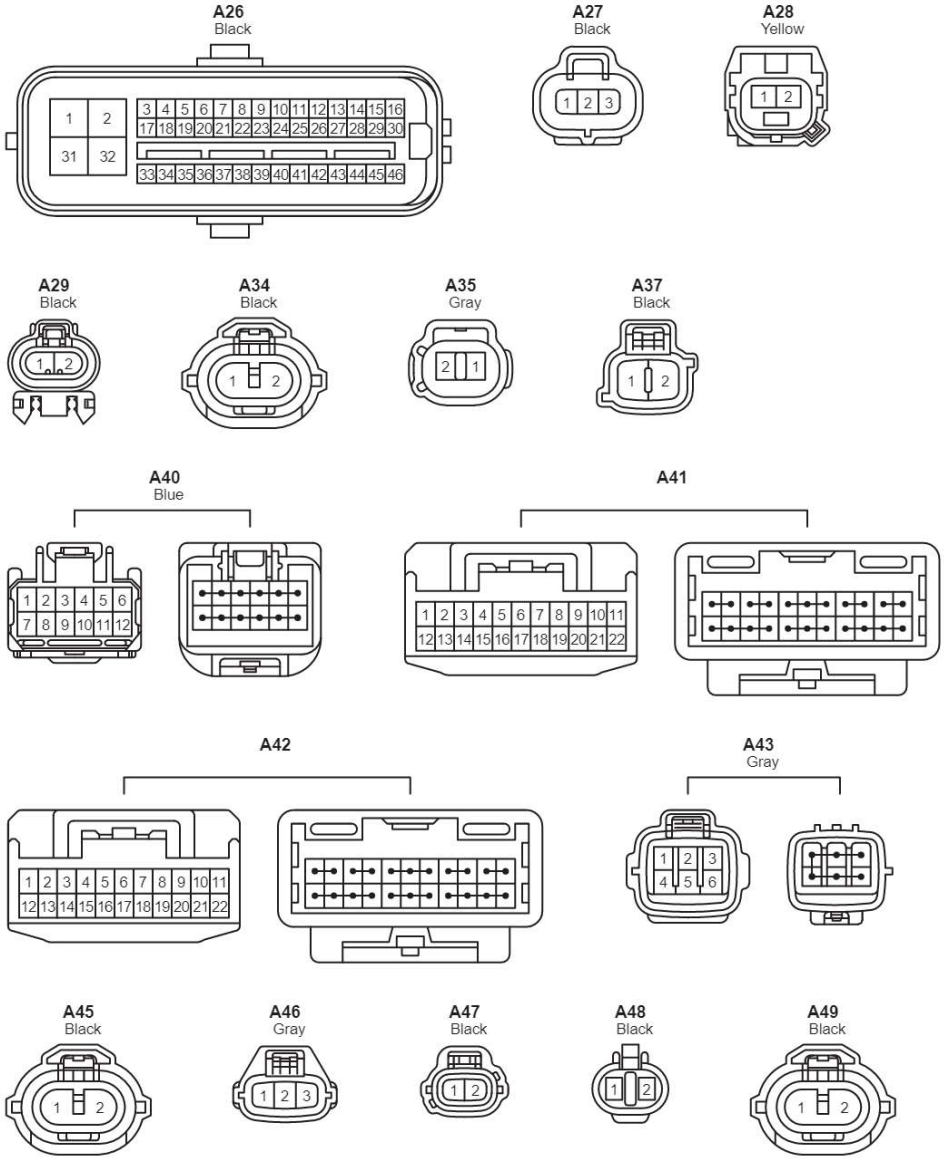


A24
Black

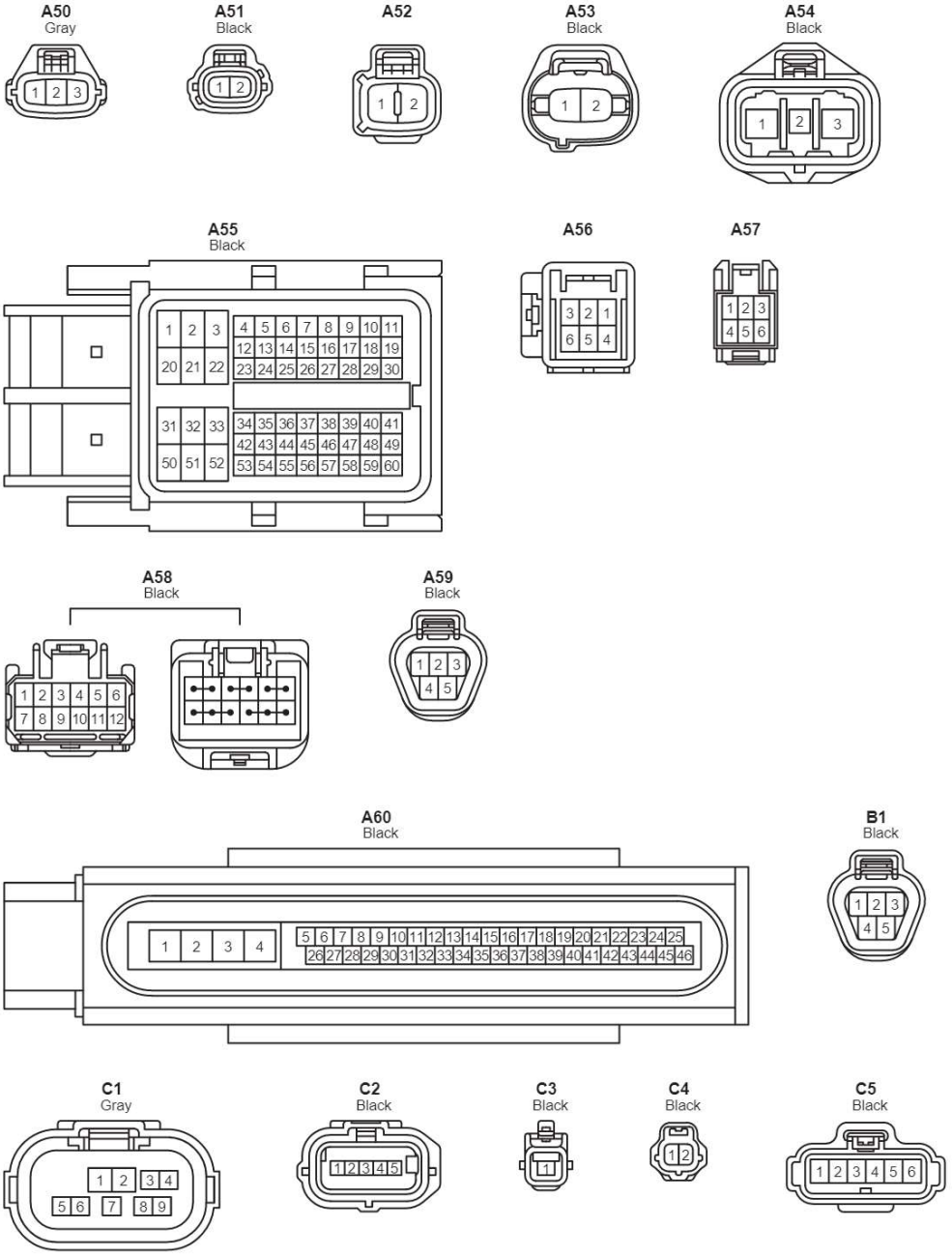


A25
Black




A26
Black
1 2
31 32
3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30
33 34 35 36 37 38 39 40 41 42 43 44 45 46
A27
Black
1 2 3
A28
Yellow
1 2
A29
Black
1 2
A34
Black
1 2
A35
Gray
2 1
A37
Black
1 2
A40
Blue
1 2 3 4 5 6
7 8 9 10 11 12
A41
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
A42
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
A43
Gray
1 2 3
4 5 6
A45
Black
1 2
A46
Gray
1 2 3
A47
Black
1 2
A48
Black
1 2
A49
Black
1 2

K CONNECTOR LIST



C6
Black



C7
Gray



C8
Gray



C9
Gray



C10
Gray



C11
Black



C12
Black



C13
Black



C14
Black



C15
Dark Gray



C16
Gray



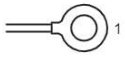
C17
Black



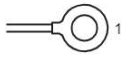
C18
Black



C19
(2AZ–FE)



C19
(2GR–FE)



C20
Black



C21
Black



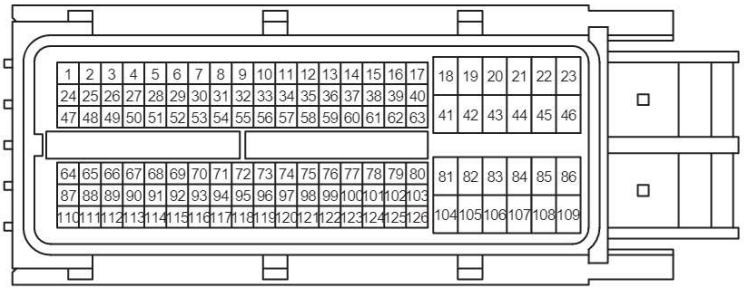
C22



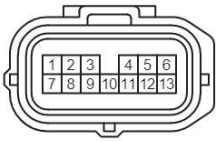
C23
Gray



C24
Black



C25
Gray



C26
Black



C27
Black



C28
Gray



C29
Black



K CONNECTOR LIST

C30
Gray



C31
Black



C32
Black



C33
Black



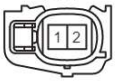
C34
Black



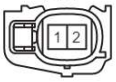
C35
Dark Gray



C36
Gray



C37
Gray



C38
Black



C39
Black



C40
Black



C41
Black



C42
Black



C43
Black



C44
Black



C45
Black



C46
Black



C47
Black



C48
Gray



C49
Gray



C50
Black



C51
Black



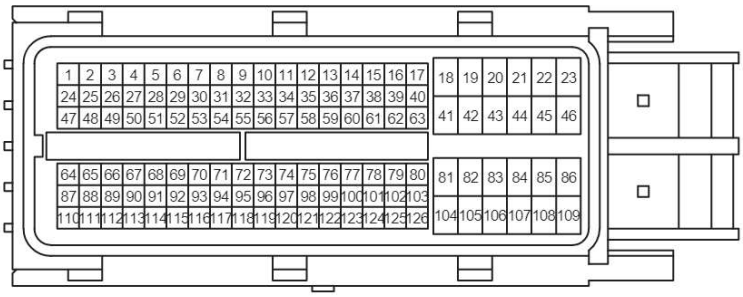
C52
Dark Gray



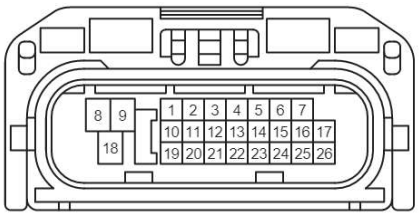
C53
Gray



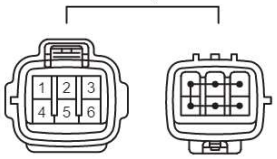
C55
Black



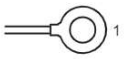
C56
Black



C57
Gray



D1



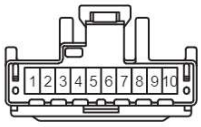
E1
Black



E2
Black



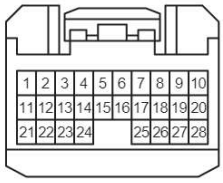
E3



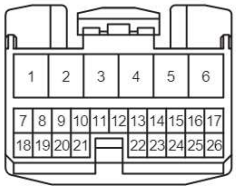
E5
Black



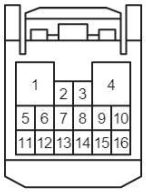
E6



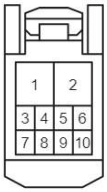
E7



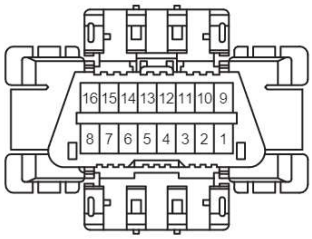
E8



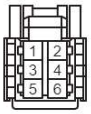
E9



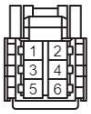
E10
Black



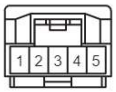
E11
(Automatic A/C) Blue



E11
(Manual A/C) Black



E12



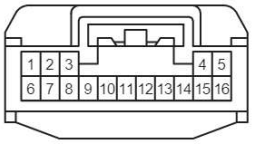
E13
Black



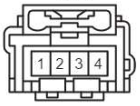
E14
Black



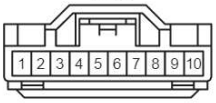
E15



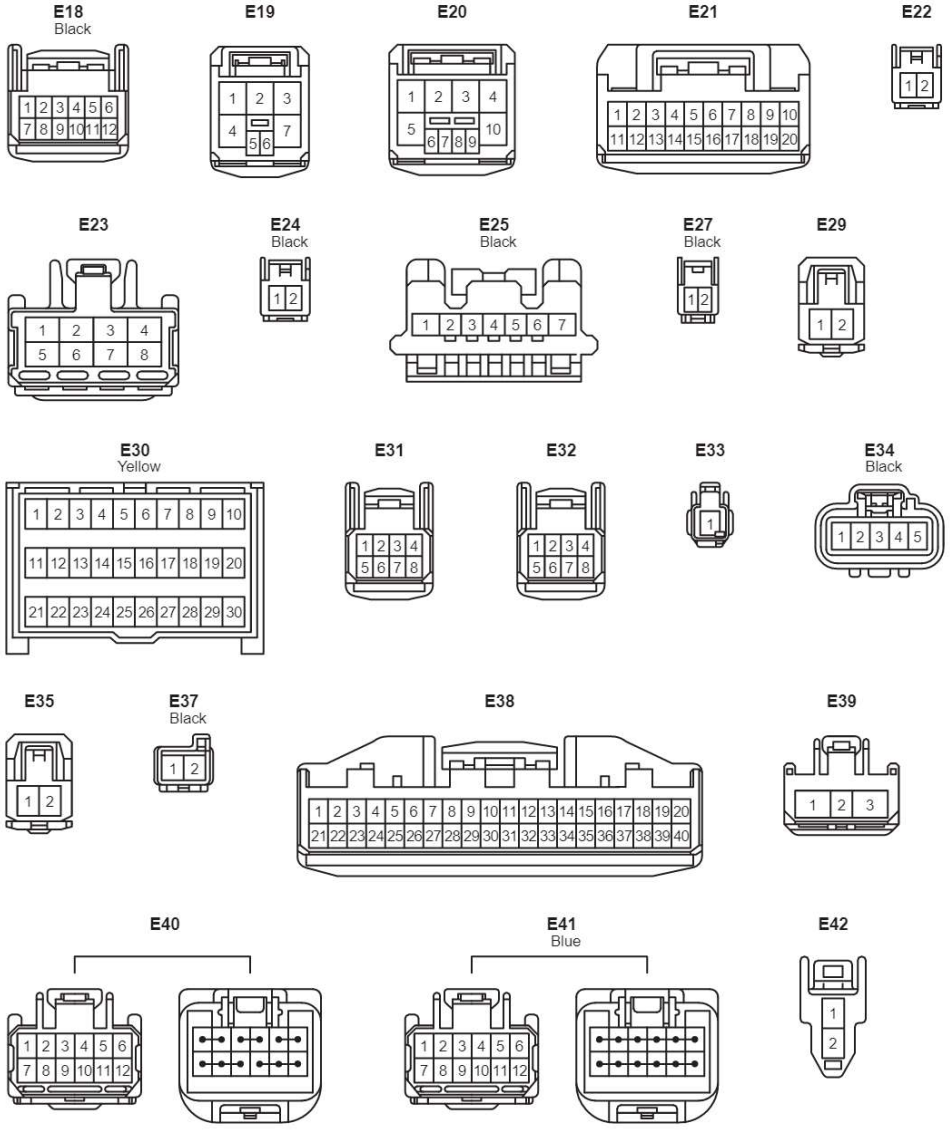
E16
Yellow

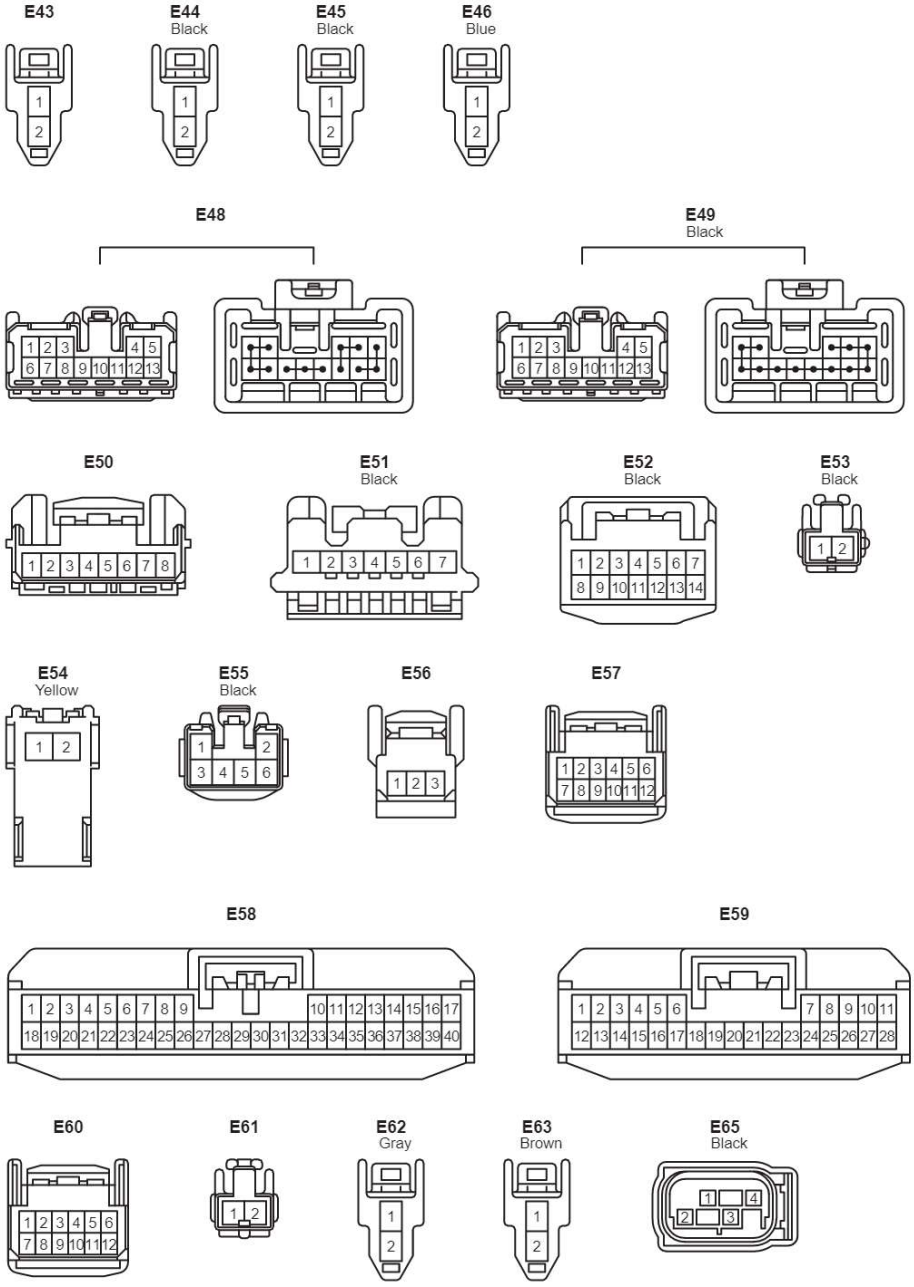


E17
Black



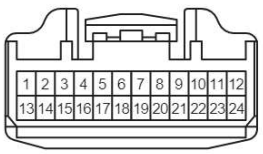
K CONNECTOR LIST




E43
E44
Black
E45
Black
E46
Blue
E48
E49
Black
E50
E51
Black
E52
Black
E53
Black
E54
Yellow
E55
Black
E56
E57
E58
E59
E60
E61
E62
Gray
E63
Brown
E65
Black

K CONNECTOR LIST

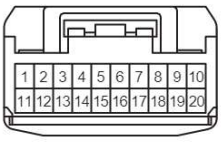
F1



F2



F3



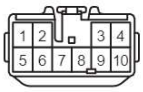
F4



F5



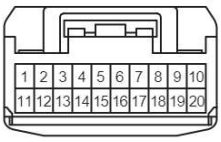
F6



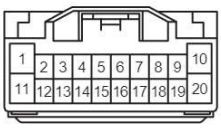
F7



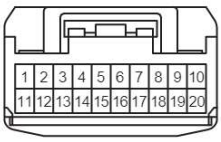
F8



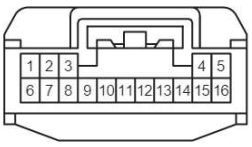
F9



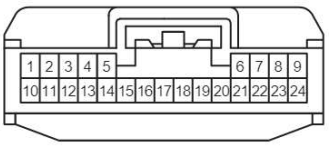
F10



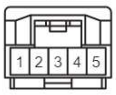
F11



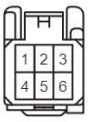
F12



F13
Gray



F14
Blue



F15



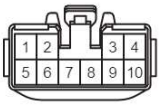
F16
Gray



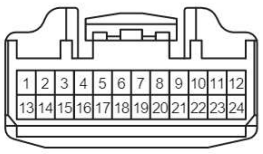
F17
Gray



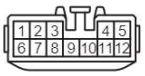
F18
Blue



F19



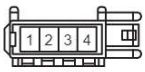
F20



F21



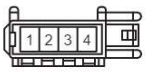
F22

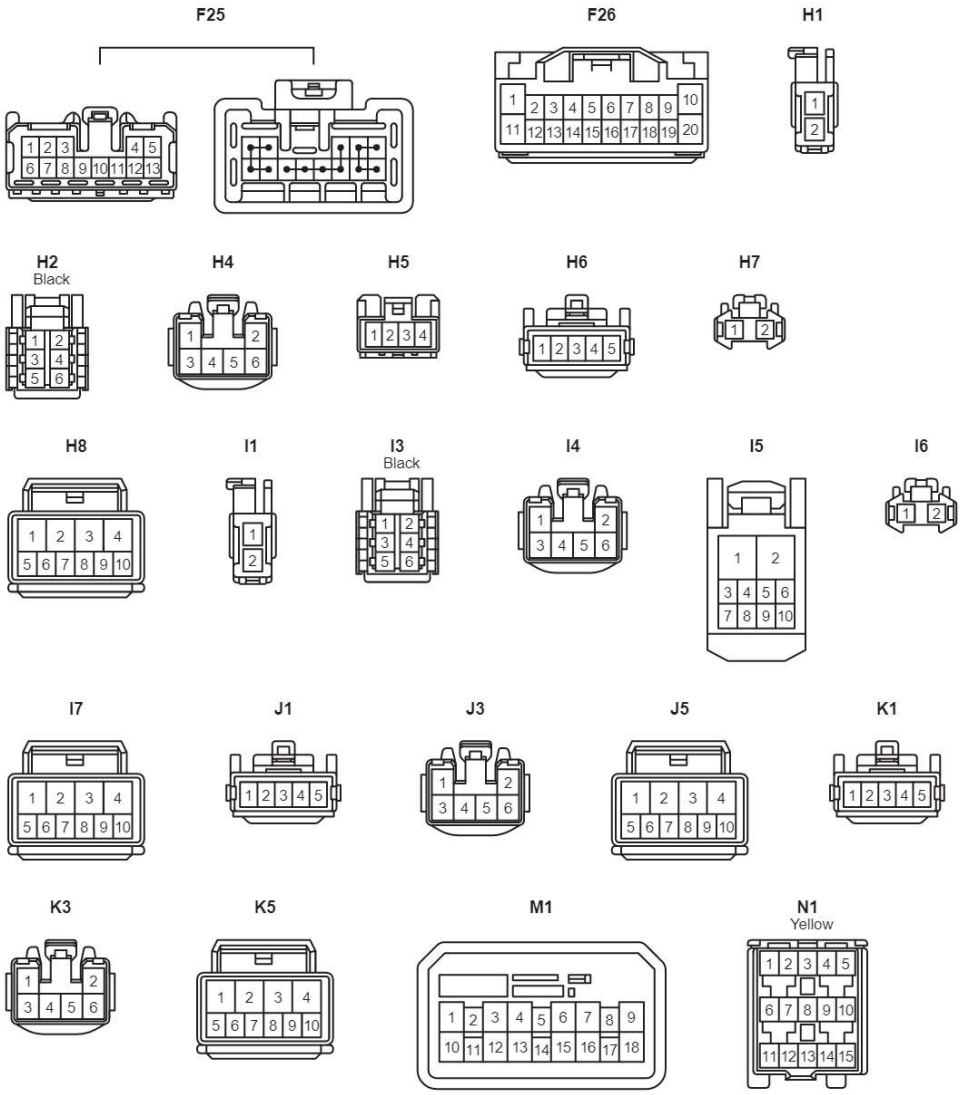


F23

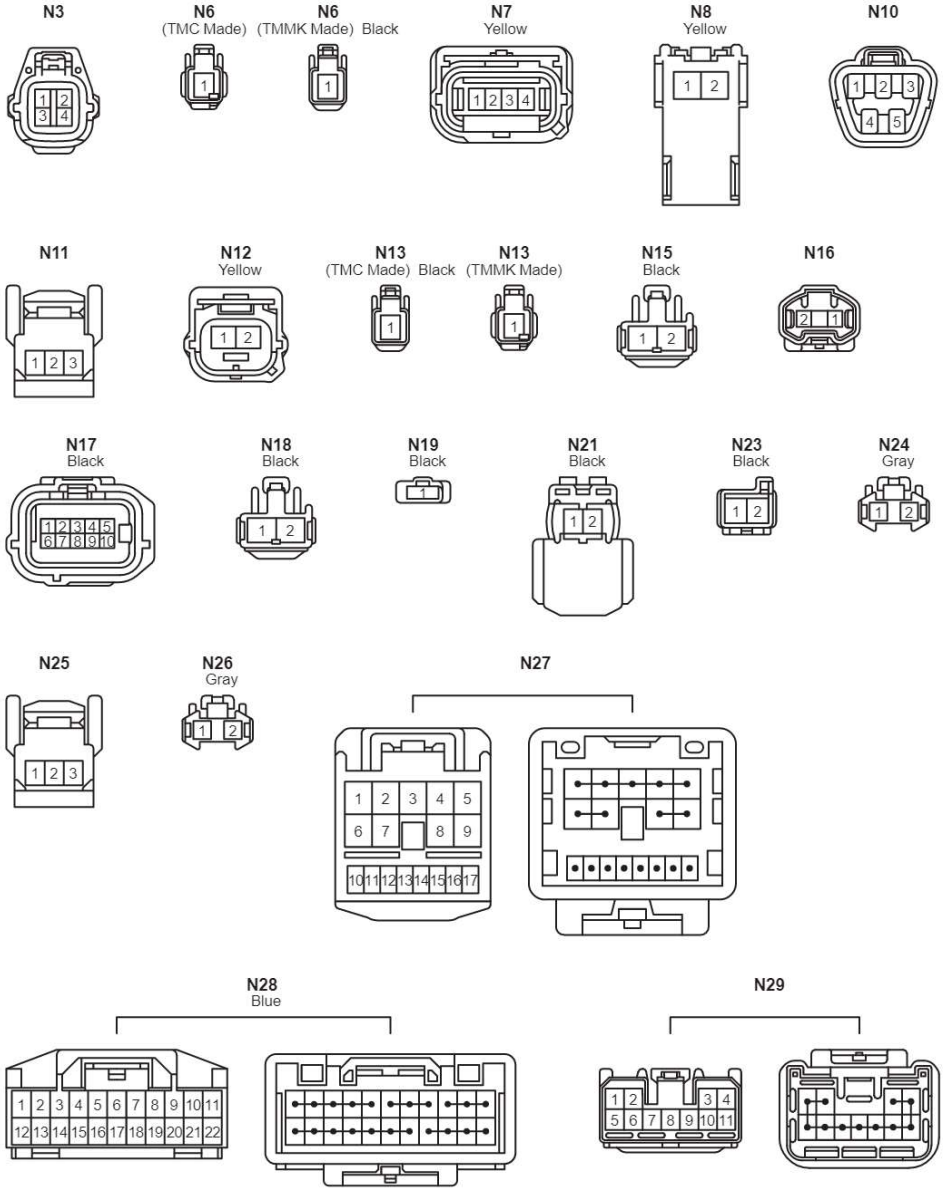


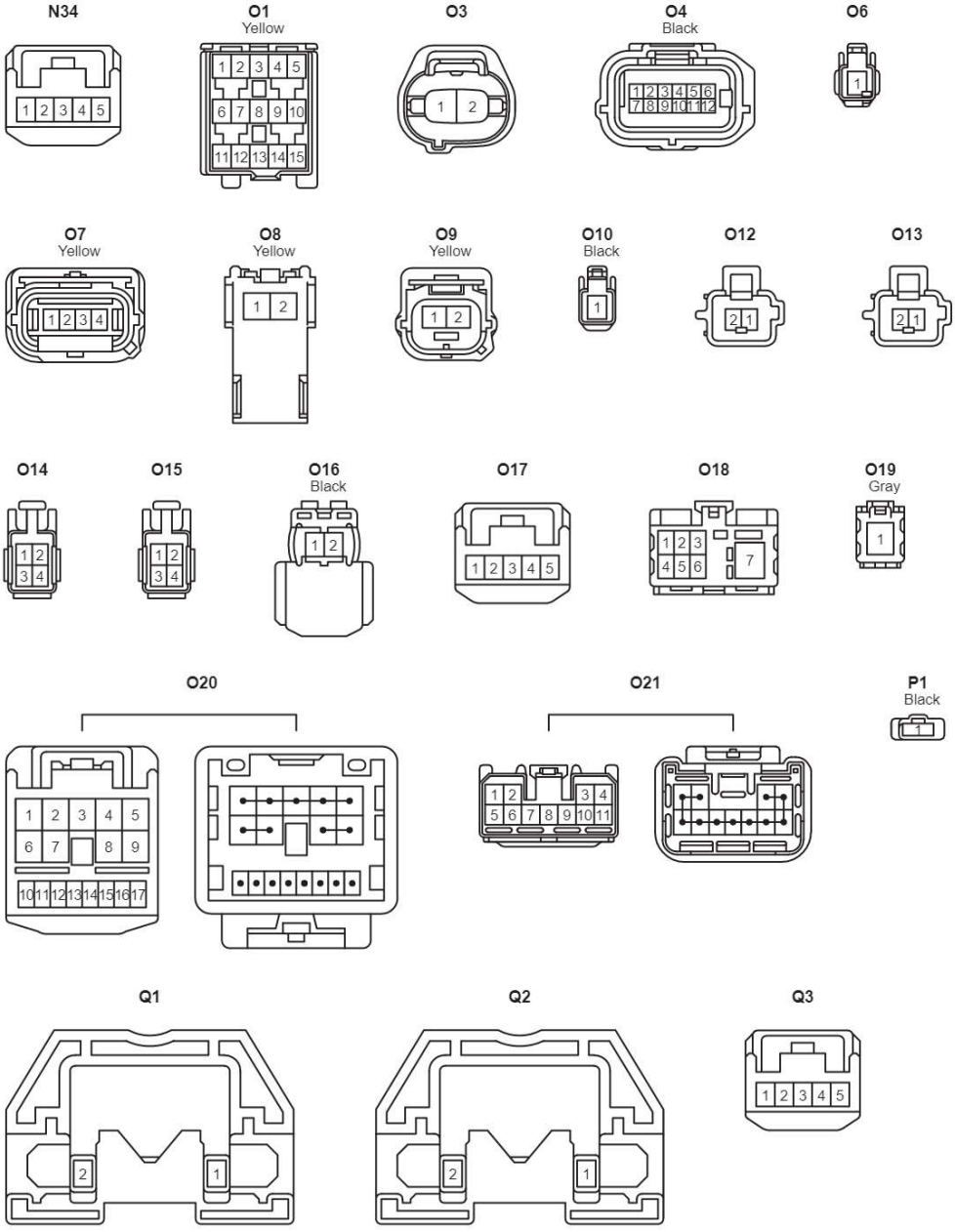
F24



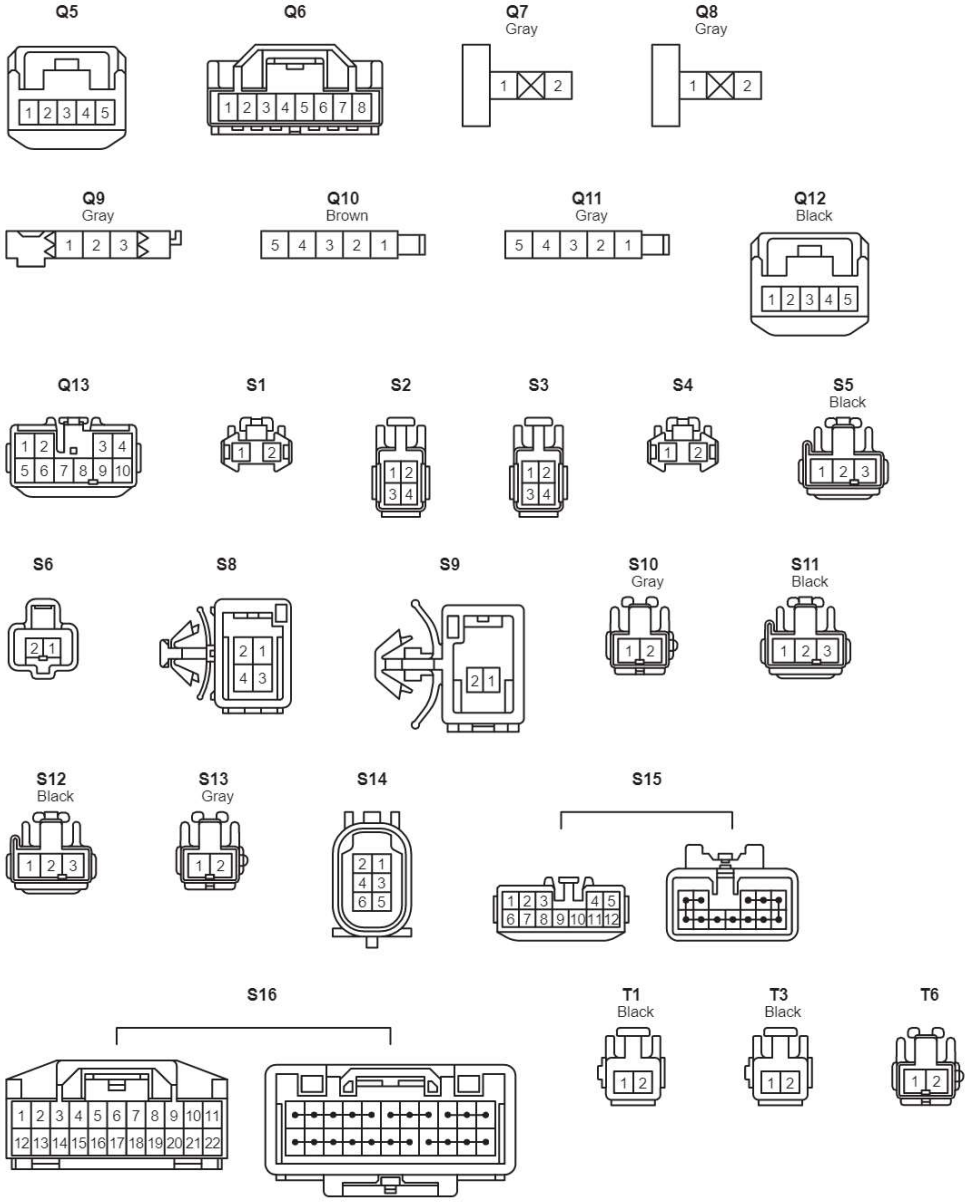

F25
F26
H1
H2
Black
H4
H5
H6
H7
H8
I1
I3
Black
I4
I5
I6
I7
J1
J3
J5
K1
K3
K5
M1
N1
Yellow

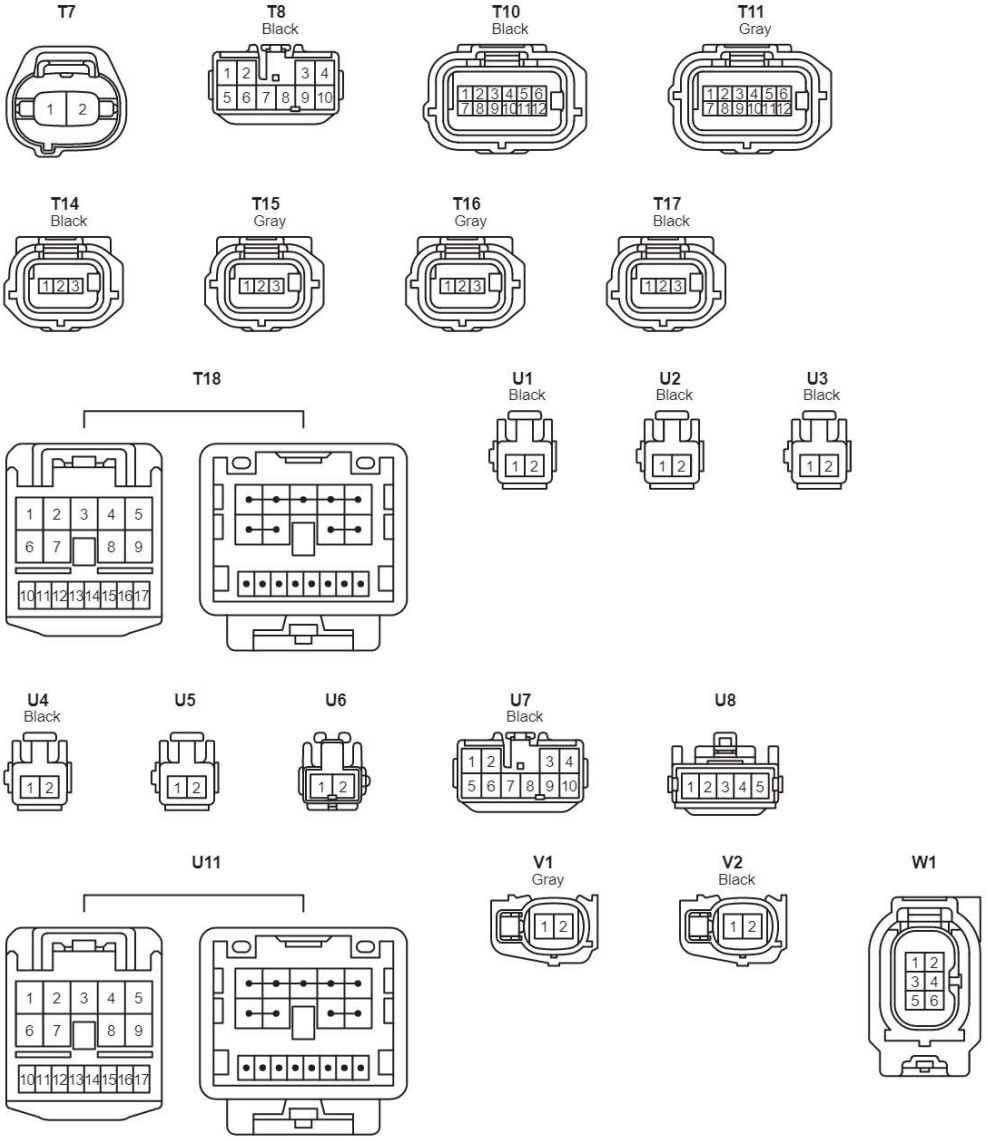
K CONNECTOR LIST



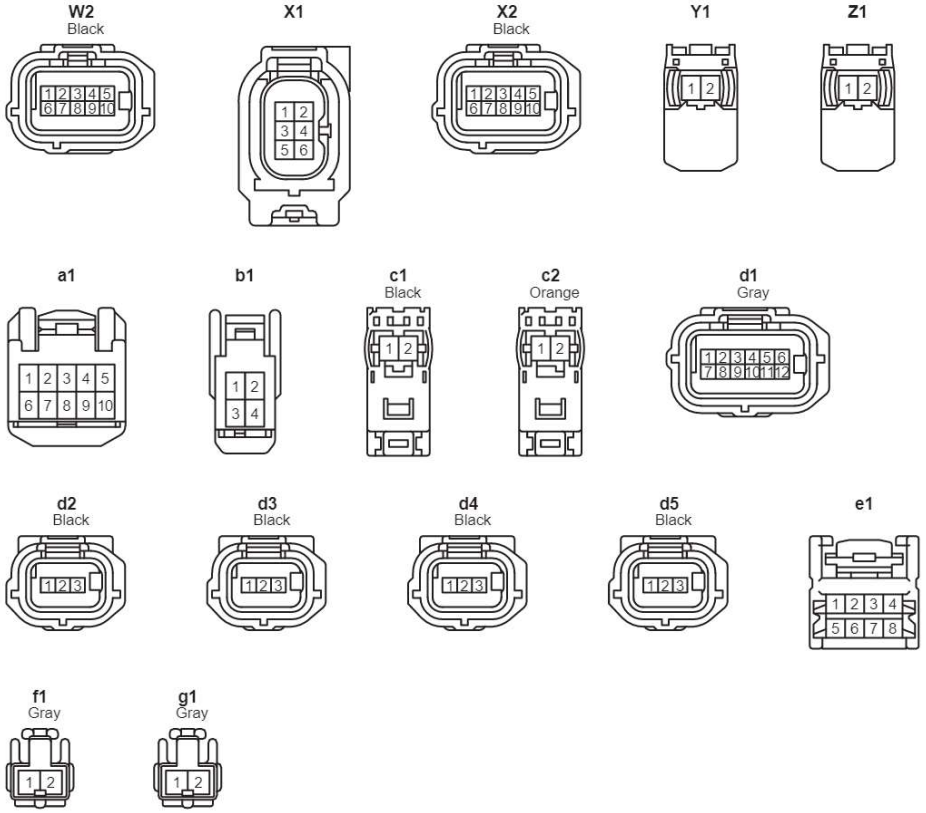

N34
1 2 3 4 5
O1
Yellow
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
O3
1 2
O4
Black
1 2 3 4 5 6
7 8 9 10 11 12
O6
1
O7
Yellow
1 2 3 4
O8
Yellow
1 2
O9
Yellow
1 2
O10
Black
1
O12
2 1
O13
2 1
O14
1 2
3 4
O15
1 2
3 4
O16
Black
1 2
O17
1 2 3 4 5
O18
1 2 3
4 5 6
7
O19
Gray
1
O20
1 2 3 4 5
6 7 8 9
10 11 12 13 14 15 16 17
O21
1 2
5 6 7 8 9 10 11
3 4
P1
Black
1
Q1
2
1
Q2
2
1
Q3
1 2 3 4 5

K CONNECTOR LIST

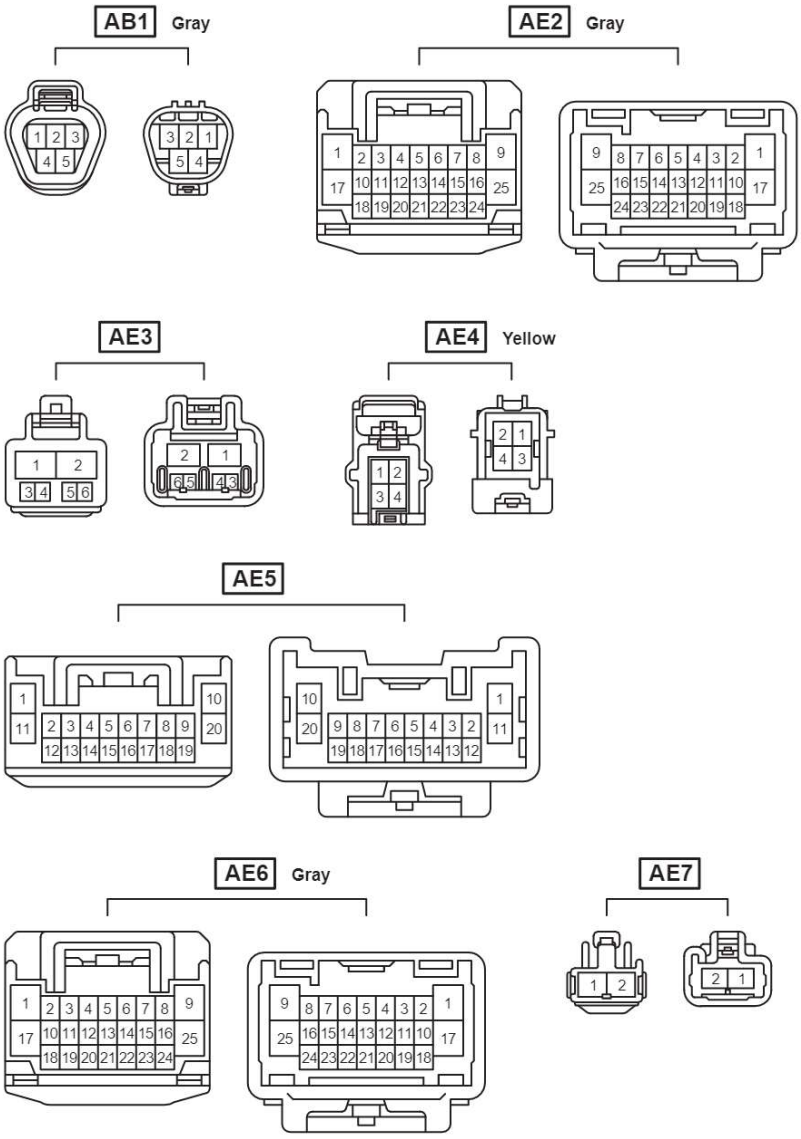


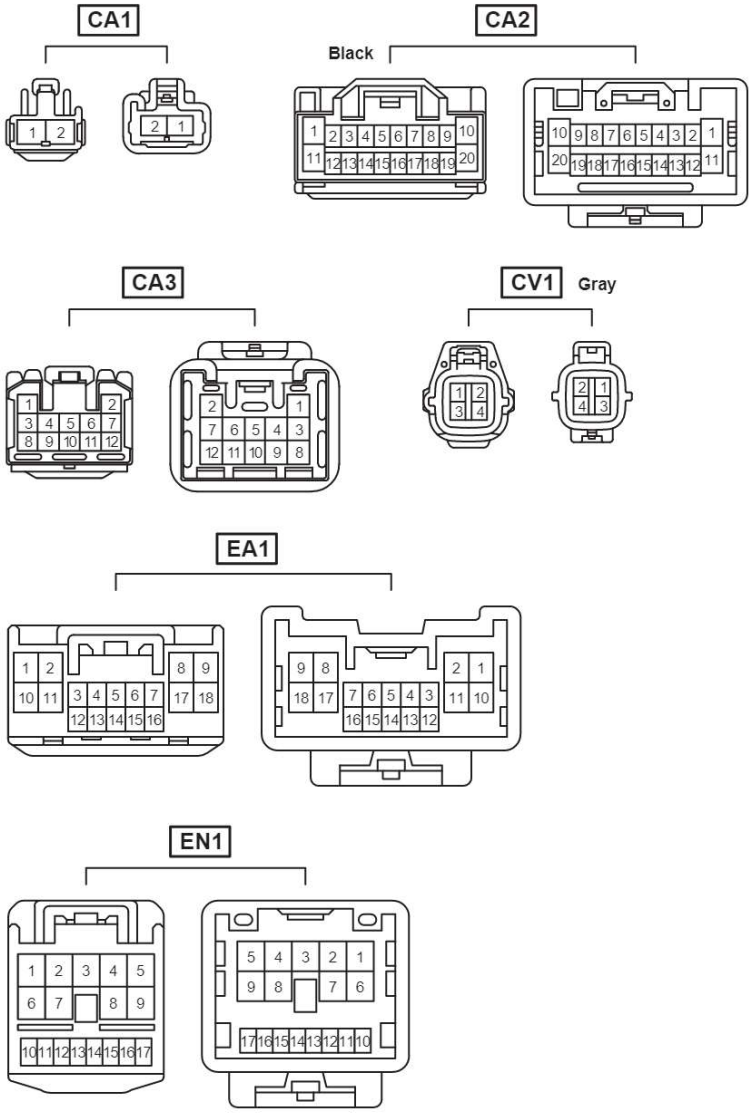

T7
T8
Black
T10
Black
T11
Gray
T14
Black
T15
Gray
T16
Gray
T17
Black
T18
U1
Black
U2
Black
U3
Black
U4
Black
U5
U6
U7
Black
U8
U11
V1
Gray
V2
Black
W1

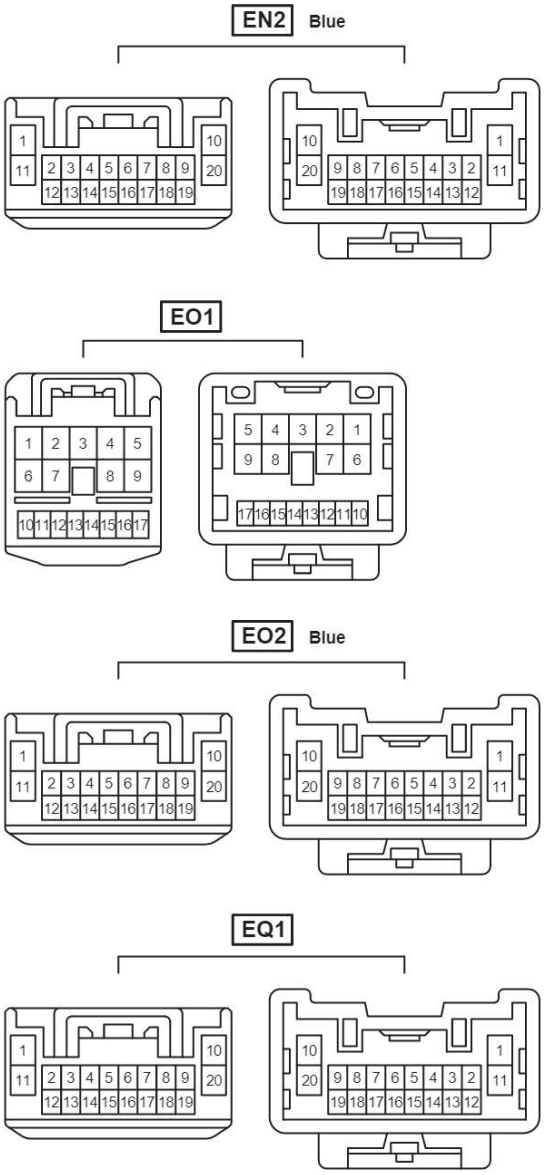
K CONNECTOR LIST

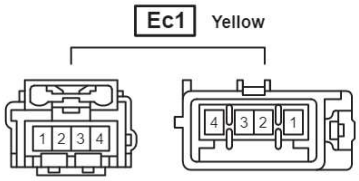


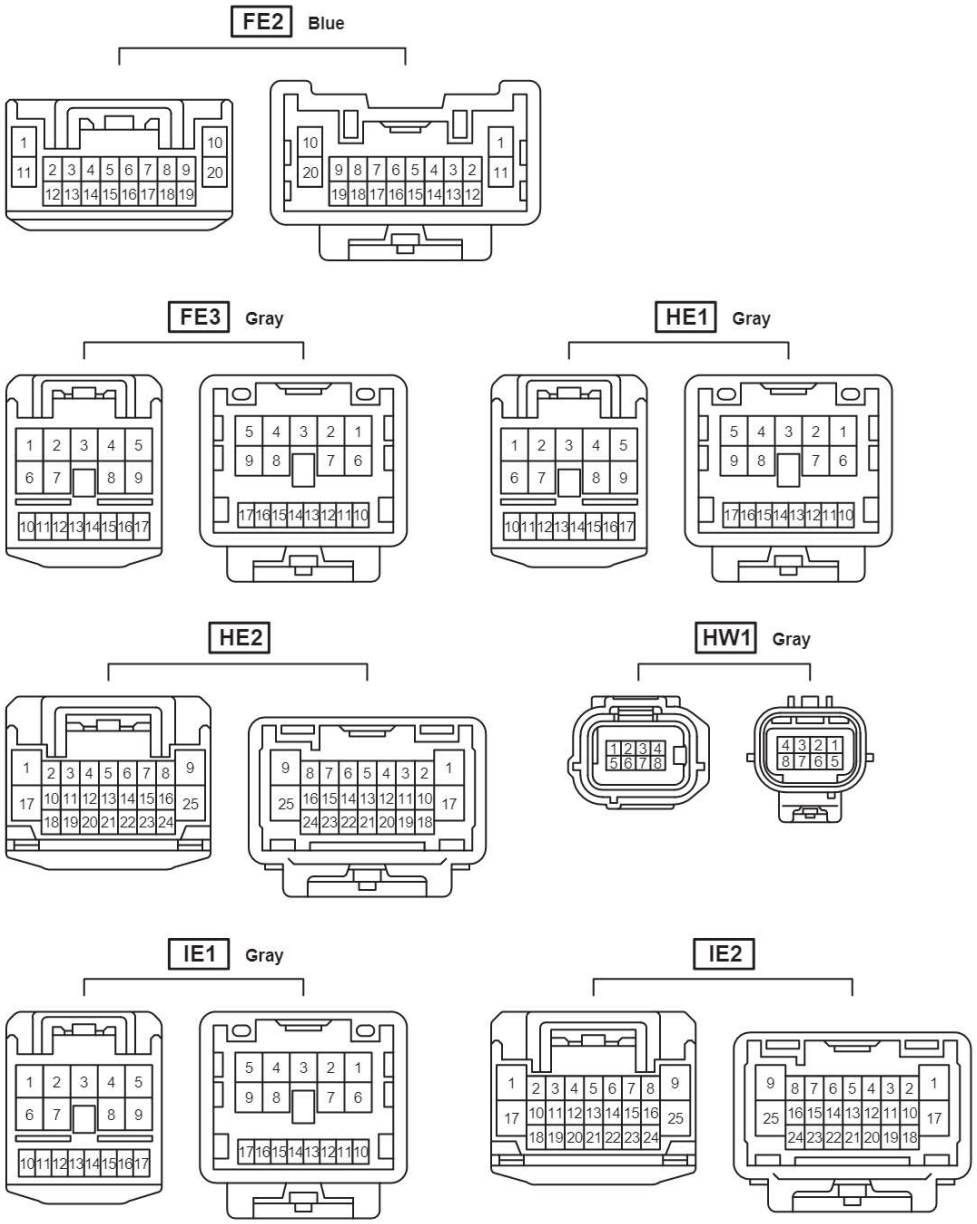
K CONNECTOR LIST

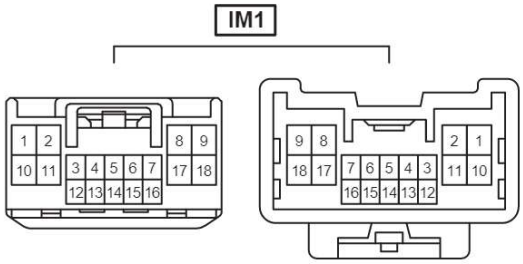


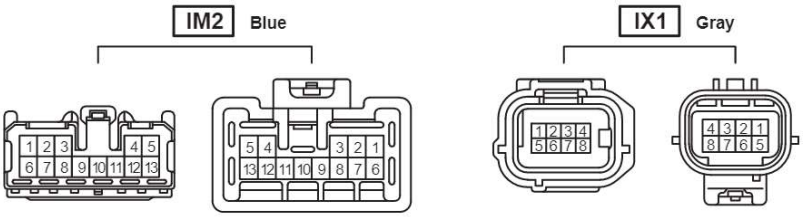

CA1
1 2
2 1
CA2
Black
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
10 9 8 7 6 5 4 3 2 1
20 19 18 17 16 15 14 13 12 11
CA3
1 2 3 4 5 6 7 8 9 10 11 12
2 1 7 6 5 4 3 12 11 10 9 8
CV1
Gray
1 2 3 4
2 1 4 3
EA1
1 2 8 9 10 11 3 4 5 6 7 12 13 14 15 16 17 18
9 8 18 17 2 1 11 10 7 6 5 4 3 16 15 14 13 12
EN1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
5 4 3 2 1 9 8 7 6 17 16 15 14 13 12 11 10

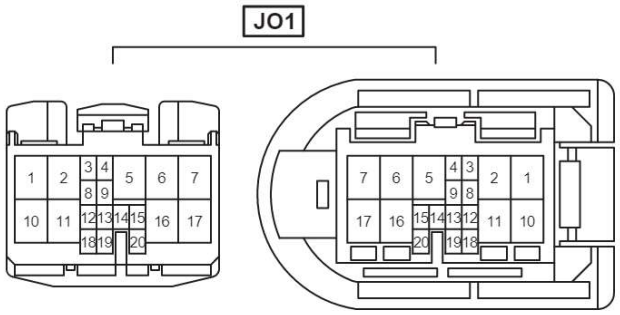

EN2
Blue
EO1
EO2
Blue
EQ1

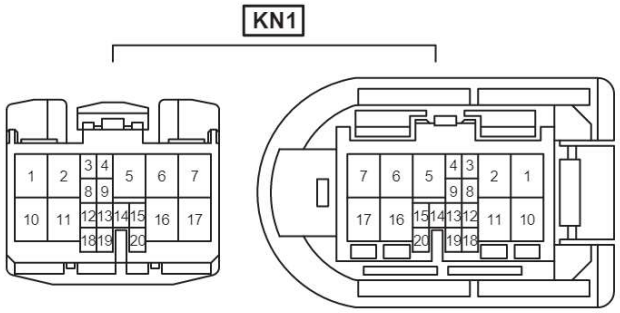

Ec1
Yellow

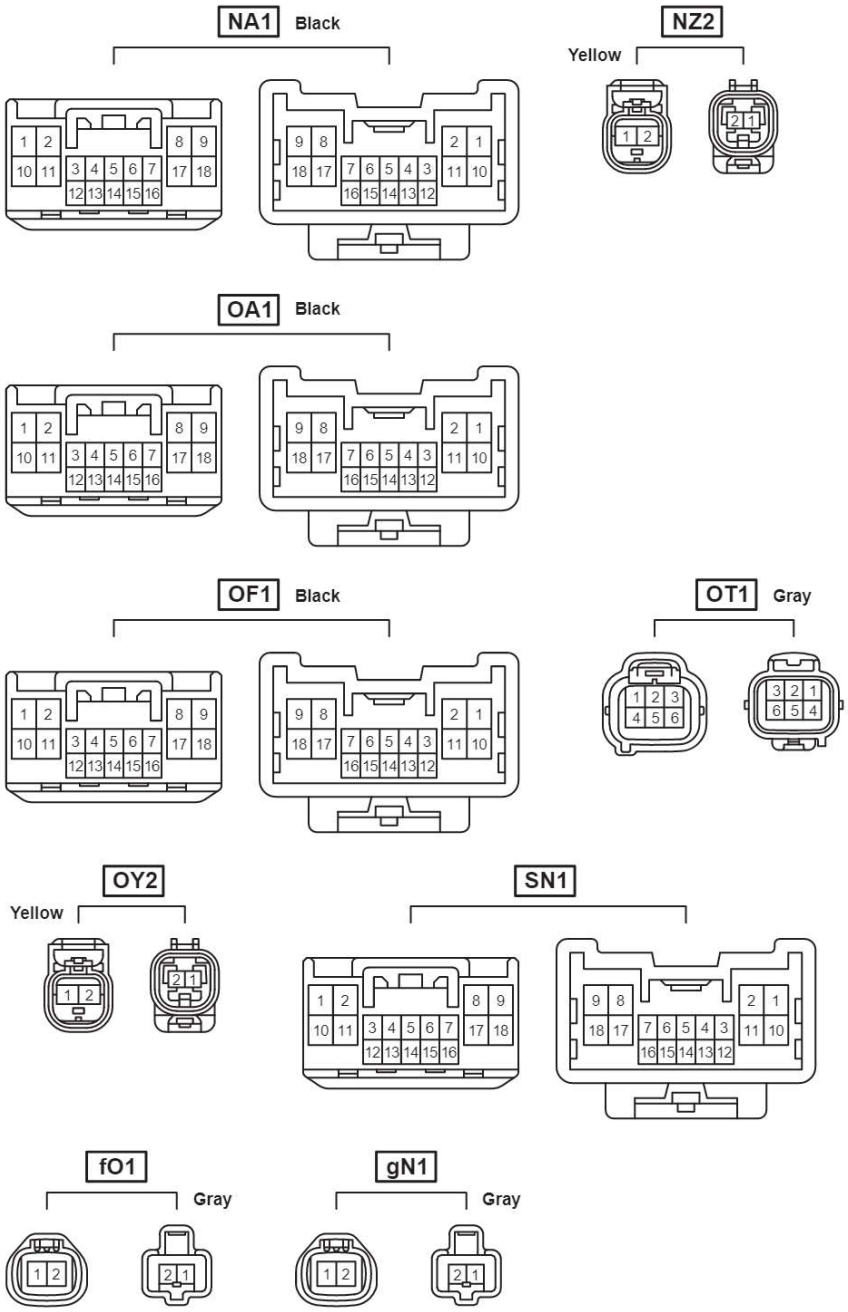

FE2 Blue
FE3 Gray
HE1 Gray
HE2
HW1 Gray
IE1 Gray
IE2


IM1
1 2 8 9
10 11 3 4 5 6 7 17 18
12 13 14 15 16
9 8 2 1
18 17 7 6 5 4 3 11 10
16 15 14 13 12


IM2 Blue
1 2 3 4 5
6 7 8 9 10 11 12 13
5 4 3 2 1
13 12 11 10 9 8 7 6
IX1 Gray
1 2 3 4
5 6 7 8
4 3 2 1
8 7 6 5


JO1
1 2 3 4 5 6 7
8 9
10 11 12 13 14 15 16 17
18 19 20
7 6 5 4 3 2 1
9 8
17 16 15 14 13 12 11 10
20 19 18


KN1
1 2 3 4 5 6 7
8 9
10 11 12 13 14 15 16 17
18 19 20
7 6 5 4 3 2 1
9 8
17 16 15 14 13 12 11 10
20 19 18


NA1
Black
NZ2
Yellow
OA1
Black
OF1
Black
OT1
Gray
OY2
Yellow
SN1
fO1
Gray
gN1
Gray

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A1	Fog Lamp (Front LH)	82824–60460
A2	Ambient Temp. Sensor	90980–11070
A3	Horn (High)	90980–10619
A4	Horn (Low)	
A5	Engine Hood Courtesy SW	90980–11002
A6	A/C Condenser Fan Motor	90980–10928
A7	Radiator Fan Motor	
A8	Headlamp (LH High)	90980–11659
A13	Airbag Sensor (Front LH)	90980–12490
A14	Speed Sensor (Front LH)	90980–11002
A16	Brake Fluid Level Warning SW	90980–11207
A17	Accelerator Position Sensor	90980–12303
A18	Parking Brake SW	90980–10871
A19	Stop Lamp SW	90980–11118
A21	Cruise Control Clutch SW	90980–10906
A22	Clutch Start SW	90980–10825
A23	Security Horn	90980–10619
A24	Engine Control Module	90980–12461
A25	Skid Control ECU with Actuator	90980–WB001
A26	Skid Control ECU with Actuator	90980–12297
A27	A/C Pressure Sensor	90980–10845
A28	Airbag Sensor (Front RH)	90980–12490
A29	Headlamp (RH High)	90980–11659
A34	Fog Lamp (Front RH)	82824–60460
A35	Speed Sensor (Front RH)	90980–11002
A37	Windshield Washer Motor	90980–11019
A40	Junction Connector	90980–11661
A41	Junction Connector	90980–12372
A42	Junction Connector	
A43	Junction Connector	90980–11194
A45	Headlamp (LH Low)	82824–60460
A46	Turn Signal and Parking Lamp (Front LH)	90980–11020
A47	Side Marker Lamp (Front LH)	90980–11162
A48	Wireless Door Lock Buzzer	90980–11142
A49	Headlamp (RH Low)	82824–60460
A50	Turn Signal and Parking Lamp (Front RH)	90980–11020
A51	Side Marker Lamp (Front RH)	90980–11162
A52	Washer Level Warning SW	90980–11068
A53	VSV (Air Intake Control)	90980–11156
A54	Cooling Fan ECU	90980–12058
A55	Engine Control Module	90980–12462
A56	Short Connector	90980–12204
A57	Short Connector	90980–12012
A58	Junction Connector	90980–11661
A59	Windshield Wiper Motor	90980–11599
A60	Skid Control ECU with Actuator	90980–WA008

Code	Part Name	Part Number
B1	Windshield Wiper Motor	90980–11599
C1	Park/Neutral Position SW	90980–12362
C2	Mass Air Flow Meter	90980–12292
C3	Starter	90980–11400
C4	Engine Coolant Temp. Sensor	90980–10735
C5	Throttle Body Assembly	90980–11858
C6	VSV (Purge)	90980–11156
C7	Fuel Injector (No.1)	90980–11875
C8	Fuel Injector (No.3)	
C9	Fuel Injector (No.2)	
C10	Fuel Injector (No.4)	
C11	Ignition Coil (No.1)	90980–11885
C12	Ignition Coil (No.3)	
C13	Ignition Coil (No.2)	
C14	Ignition Coil (No.4)	
C15	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
C16	Noise Filter (Ignition RH)	90980–10843
C17	Power Steering Oil Pressure SW	90980–11428
C18	Generator	90980–11964
C19	Generator (2AZ–FE)	90980–09213
	Generator (2GR–FE)	90980–09983
C20	Crankshaft Position Sensor	90980–10947
C21	A/C Compressor	90980–11156
C22	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–11028
C23	Engine Oil Pressure SW	90980–11363
C24	Engine Control Module	90980–12398
C25	Electronically Controlled Transmission Solenoid	90980–12326
C26	Transmission Revolution Sensor (Turbine)	90980–11156
C27	Transmission Revolution Sensor (Counter Gear)	
C28	Back–Up Lamp SW	90980–11250
C29	Starter	90980–11400
C30	Knock Control Sensor (Bank 1)	90980–11875
C31	Camshaft Position Sensor	90980–10947
C32	Camshaft Timing Oil Control Valve	90980–11162
C33	Intake Air Control Valve	90980–11599
C34	VSV (ACM)	90980–11156
C35	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	90980–11178
C36	Fuel Injector (No.5)	90980–11875
C37	Fuel Injector (No.6)	
C38	Ignition Coil (No.5)	90980–11885
C39	Ignition Coil (No.6)	
C40	VVT Sensor (Bank 1 Exhaust Side)	90980–12353
C41	VVT Sensor (Bank 1 Intake Side)	

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

Code	Part Name	Part Number
C42	Camshaft Timing Oil Control Valve (RH Exhaust Side)	90980–11162
C43	Camshaft Timing Oil Control Valve (RH Intake Side)	
C44	VVT Sensor (Bank 2 Exhaust Side)	90980–12353
C45	VVT Sensor (Bank 2 Intake Side)	
C46	Camshaft Timing Oil Control Valve (LH Exhaust Side)	90980–11162
C47	Camshaft Timing Oil Control Valve (LH Intake Side)	
C48	VSV (ACIS)	
C49	Noise Filter (Ignition LH)	90980–10843
C50	Crankshaft Position Sensor	90980–12611
C51	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980–11028
C52	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–10869
C53	A/C Compressor	90980–11016
C55	Engine Control Module	90980–12396
C56	Transmission Control ECU	90980–12649
C57	Junction Connector	90980–11194
D1	Starter	90980–09463
E1	Diode (Door Courtesy Rear LH)	90980–10962
E2	Diode (Door Courtesy Rear RH)	
E3	Outer Mirror SW	90980–11657
E5	Diode (Door Courtesy Front LH)	90980–10962
E6	Main Body ECU	90980–12330
E7	Main Body ECU	90980–12561
E8	Main Body ECU	90980–12329
E9	Main Body ECU	90980–12328
E10	Data Link Connector 3	90980–11665
E11	Automatic Light Control Sensor	90980–12056
E12	Ion Generator	90980–11909
E13	VSC Warning Buzzer	90980–10906
E14	Turn Signal Flasher	90980–10799
E15	Transponder Key ECU	90980–12423
E16	Airbag Squib (Steering Wheel Pad)	90980–12160
E17	Steering Sensor	90980–12162
E18	Spiral Cable	90980–12552
E19	Windshield Wiper SW Assembly	90980–12358
E20	Windshield Wiper SW Assembly	90980–12359
E21	Headlamp Dimmer SW Assembly	90980–12460
E22	Unlock Warning SW	90980–12063
E23	Ignition SW	90980–11615
E24	Key Interlock Solenoid	90980–12063
E25	Transponder Key Amplifier	90980–12092
E27	A/C Room Temp. Sensor	90980–11918
E29	Power Outlet Socket (Front)	90980–12498
E30	Airbag Sensor Assembly Center	90980–12391

Code	Part Name	Part Number
E31	Transmission Control SW	90980–12551
E32	Shift Lock Control ECU	
E33	Parking Brake SW	90980–10871
E34	Yaw Rate Sensor	90980–11904
E35	Power Outlet Socket (Rear)	90980–12498
E37	Diode (Door Courtesy Front RH)	90980–10962
E38	A/C Amplifier	90980–12557
E39	Blower Motor	90980–11667
E40	Junction Connector	90980–11661
E41	Junction Connector	
E42	Junction Connector	90980–12355
E43	Junction Connector	
E44	Junction Connector	
E45	Junction Connector	
E46	Junction Connector	
E48	Junction Connector	90980–11542
E49	Junction Connector	
E50	ID Code Box	90980–12558
E51	Steering Lock ECU	90980–12092
E52	Power SW	90980–12370
E53	Tire Pressure Warning SW (Reset)	90980–10906
E54	Airbag Squib (Knee Airbag)	90980–12253
E55	Seat Heater SW	90980–10797
E56	Electrical Key Oscillator (Console)	90980–12296
E57	Shift Lock Control ECU	90980–12552
E58	Certification ECU	90980–12567
E59	Certification ECU	90980–12566
E60	Tire Pressure Warning ECU	90980–12552
E61	Option Connector (Bus Buffer)	90980–10860
E62	Junction Connector	90980–12355
E63	Junction Connector	
E65	Yaw Rate Sensor	90080–98249
F1	Combination Meter	90980–12554
F2	Combination Meter	90980–12553
F3	Clock	90980–12460
F4	Hazard Warning Signal SW	90980–12113
F5	Glove Box Lamp	90980–11098
F6	Radio Receiver Assembly	90980–10997
F7	Radio Receiver Assembly	90980–10996
F8	Radio Receiver Assembly	90980–12460
F9	Navigation Receiver Assembly	90980–12038
F10	Navigation Receiver Assembly	90980–12460
F11	Radio Receiver Assembly	90980–12423
F12	Navigation Receiver Assembly	90980–12404
F13	Navigation Receiver Assembly	90980–11909

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
F14	Navigation Receiver Assembly	90980–12209
F15	Antenna Amplifier	90980–10871
F16	A/C Control Assembly	90980–12559
F17	Stereo Jack Adapter	82824–21030
F18	Stereo Component Amplifier	90980–10801
F19	Stereo Component Amplifier	90980–12554
F20	Stereo Component Amplifier	90980–10803
F21	Tweeter (Front LH)	90980–10860
F22	Tweeter (Front LH)	90980–12304
F23	Tweeter (Front RH)	90980–10860
F24	Tweeter (Front RH)	90980–12304
F25	Junction Connector	90980–11542
F26	Radio Receiver Assembly	90980–12038
H1	Speaker (Front Door RH)	90980–10935
H2	Outer Rear View Mirror (RH)	90980–12056
H4	Power Window Regulator Motor (Front Passenger's Side)	90980–10797
H5	Door Lock Control SW	90980–11950
H6	Power Window SW (Front Passenger's Side)	90980–10789
H7	Courtesy Lamp (Front Door RH)	90980–11148
H8	Door Lock Assembly (Front Passenger's Side)	90980–12226
I1	Speaker (Front Door LH)	90980–10935
I3	Outer Rear View Mirror (LH)	90980–12056
I4	Power Window Regulator Motor (Front LH)	90980–10797
I5	Power Window Regulator Motor (Front LH)	90980–12328
I6	Courtesy Lamp (Front Door LH)	90980–11148
I7	Door Lock Assembly (Driver's Side)	90980–12226
J1	Power Window SW (Rear RH)	90980–10789
J3	Power Window Regulator Motor (Rear RH)	90980–10797
J5	Door Lock Assembly (Rear RH)	90980–12226
K1	Power Window SW (Rear LH)	90980–10789
K3	Power Window Regulator Motor (Rear LH)	90980–10797
K5	Door Lock Assembly (Rear LH)	90980–12226
M1	Power Window Master SW	90980–12122
N1	Airbag Sensor Assembly Center	90980–12449
N3	Front Seat Inner Belt (Driver's Side)	90980–10942
N6	Door Courtesy SW (Driver's Side) (TMC Made)	90980–10871
	Door Courtesy SW (Driver's Side) (TMMK Made)	82824–33280
N7	Side Airbag Sensor (Front LH)	90980–12225
N8	Pretensioner (LH)	90980–12253
N10	Fuel Suction Pump and Gage Assembly	90980–11077
N11	Electrical Key Oscillator (Rear Seat)	90980–12296
N12	Side Airbag Sensor (Rear LH)	90980–11856
N13	Door Courtesy SW (Rear LH) (TMC Made)	82824–33280
	Door Courtesy SW (Rear LH) (TMMK Made)	90980–10871
N15	Noise Filter (Dome and Stop)	90980–10916
N16	Center Stop Lamp	90980–11159
N17	Canister Pump Module	90980–12380
N18	Noise Filter (Rear Window Defogger)	90980–10916
N19	Rear Window Defogger	90980–10913
N21	Curtain Shield Airbag Squib (LH)	90980–12575
N23	Diode (Luggage Compartment Lamp)	90980–10962
N24	Luggage Compartment Lamp	90980–11148
N25	Electrical Key Oscillator (Inside Luggage Room)	90980–12296
N26	Luggage Compartment Lamp	90980–11148
N27	Junction Connector	90980–12374
N28	Junction Connector	90980–11915
N29	Junction Connector	90980–11539
N34	Tire Pressure Warning Antenna and Receiver	90980–12366
O1	Airbag Sensor Assembly Center	90980–12450
O3	Front Seat Inner Belt (Front Passenger's Side)	90980–11156
O4	Occupant Classification ECU	90980–12356
O6	Door Courtesy SW (Front Passenger's Side)	90980–10871
O7	Side Airbag Sensor (Front RH)	90980–12225
O8	Pretensioner (RH)	90980–12253
O9	Side Airbag Sensor (Rear RH)	90980–11856
O10	Door Courtesy SW (Rear RH)	82824–33280
O12	Speaker (Rear LH)	90980–11299
O13	Speaker (Rear RH)	
O14	Speaker (Rear LH)	90980–10795
O15	Speaker (Rear RH)	
O16	Curtain Shield Airbag Squib (RH)	90980–12575
O17	Door Control Receiver	90980–12366
O18	Door Control Receiver	90980–50011
O19	Electrical Key Antenna	90980–12043
O20	Junction Connector	90980–12374
O21	Junction Connector	90980–11539
P1	Rear Window Defogger	90980–10914
Q1	Vanity Lamp SW (LH)	90980–12322
Q2	Vanity Lamp SW (RH)	
Q3	Inner Rear View Mirror	90980–12366
Q5	Microphone (Navigation)	
Q6	Overhead J/B	90980–11989

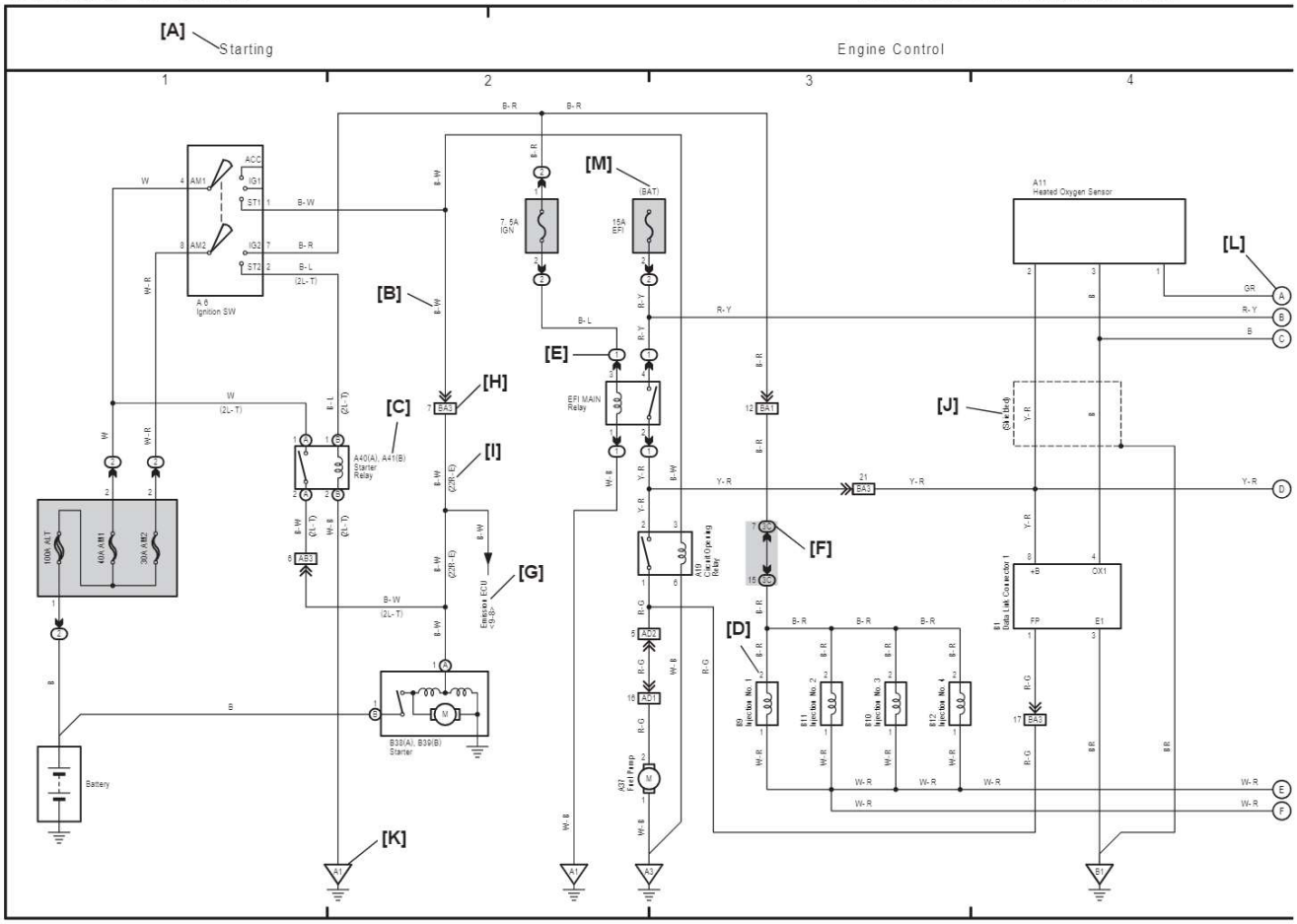
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
Q7	Vanity Lamp (LH)	–
Q8	Vanity Lamp (RH)	
Q9	Room Lamp (Center)	
Q10	Map Lamp (RH)	
Q11	Map Lamp (LH)	
Q12	Microphone (Navigation)	90980–12366
Q13	Sliding Roof Control ECU and Motor	90980–10997
S1	License Plate Lamp (RH)	90980–11148
S2	Rear Combination Lamp (RH)	90980–10795
S3	Rear Combination Lamp (LH)	
S4	License Plate Lamp (LH)	90980–11148
S5	Door Lock Assembly (Luggage)	90980–10908
S6	Luggage Compartment Door Lock Cylinder	90980–11060
S8	Luggage Compartment Door Lock Cylinder	90980–12212
S9	Luggage Electrical Key SW	90980–11967
S10	Turn Signal Lamp (Rear LH)	90980–10906
S11	Rear Combination Lamp (LH)	90980–10908
S12	Rear Combination Lamp (RH)	
S13	Turn Signal Lamp (Rear RH)	90980–10906
S14	Electrical Key Oscillator (Outside Luggage Room)	90980–12381
S15	Junction Connector	90980–10803
S16	Junction Connector	90980–11915
T1	Power Seat Motor (Front Passenger's Seat Slide Control)	90980–10825
T3	Power Seat Motor (Front Passenger's Seat Reclining Control)	
T6	Seat Heater (RH)	90980–10906
T7	Front Seat Inner Belt (Front Passenger's Side)	90980–11156
T8	Power Seat SW (Front Passenger's Seat)	90980–10997
T10	Occupant Classification ECU	90980–12356
T11	Occupant Classification ECU	90980–12357
T14	Occupant Classification Sensor (Front LH)	90980–12353
T15	Occupant Classification Sensor (Rear LH)	90980–12354
T16	Occupant Classification Sensor (Front RH)	
T17	Occupant Classification Sensor (Rear RH)	90980–12353
T18	Junction Connector	90980–12374

Code	Part Name	Part Number
U1	Power Seat Motor (Driver's Seat Slide Control)	90980–10825
U2	Power Seat Motor (Driver's Seat Front Vertical Control)	
U3	Power Seat Motor (Driver's Seat Reclining Control)	
U4	Power Seat Motor (Driver's Seat Lifter Control)	
U5	Power Seat Motor (Driver's Seat Lumbar Support Control)	
U6	Seat Heater (LH)	90980–10906
U7	Power Seat SW (Driver's Seat)	90980–10997
U8	Power Seat SW (Driver's Seat Lumbar Support Control)	90980–10789
U11	Junction Connector	90980–12374
V1	Knock Control Sensor (Bank 2)	90980–11875
V2	Knock Control Sensor (Bank 1)	
W1	Door Outside Handle (Front RH)	90980–12382
W2	Electrical Key Oscillator (Front Door RH)	90980–12380
X1	Door Outside Handle (Front LH)	90980–12382
X2	Electrical Key Oscillator (Front Door LH)	90980–12380
Y1	Side Airbag Squib (RH)	90980–12452
Z1	Side Airbag Squib (LH)	
a1	Spiral Cable	90980–12361
	Steering Pad SW	
b1	Cruise Control SW	90980–12360
	Spiral Cable	
c1	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12219
c2	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12224
d1	Occupant Classification ECU	90980–12357
d2	Occupant Classification Sensor (Front LH)	90980–12353
d3	Occupant Classification Sensor (Rear LH)	
d4	Occupant Classification Sensor (Front RH)	
d5	Occupant Classification Sensor (Rear RH)	
e1	A/C Amplifier	90980–12264
	A/C Blower Assembly	
f1	Speed Sensor (Rear LH)	90980–10860
g1	Speed Sensor (Rear RH)	

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

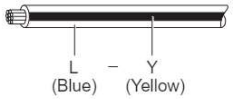
[B] : Indicates the wiring color.

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.

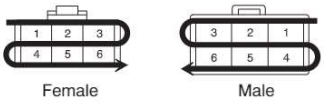
Example: L – Y



[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 other from upper left to lower right / Numbered in other from upper right to lower left



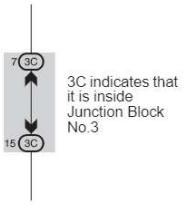
The numbering system for the overall wiring diagram is the same as above

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

Example: (1) Indicates Relay Block No.1

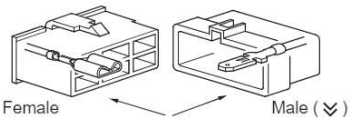
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

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



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

[J] : Indicates a shielded cable.



[K] : Indicates a ground point.

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

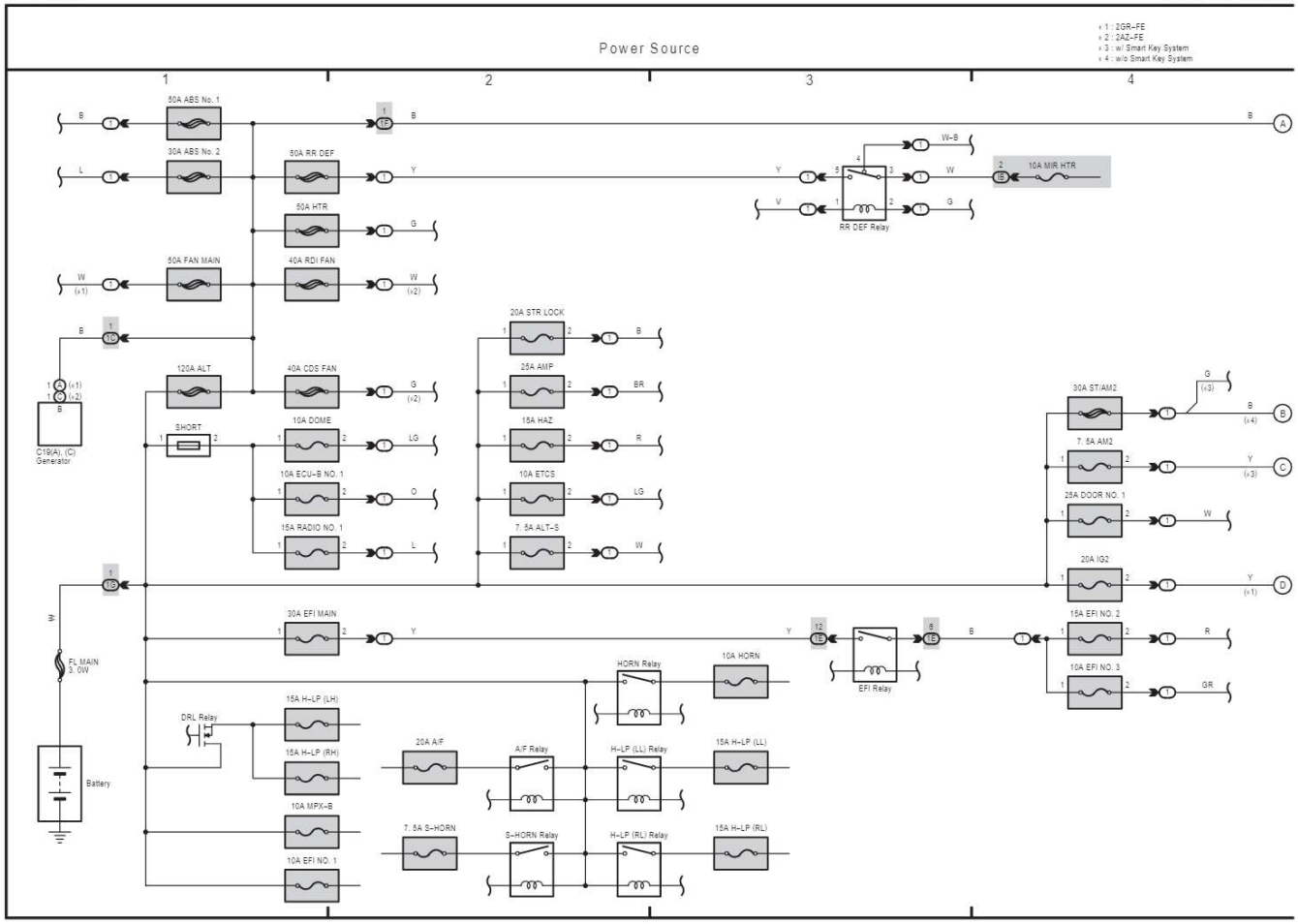
[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

SYSTEM INDEX

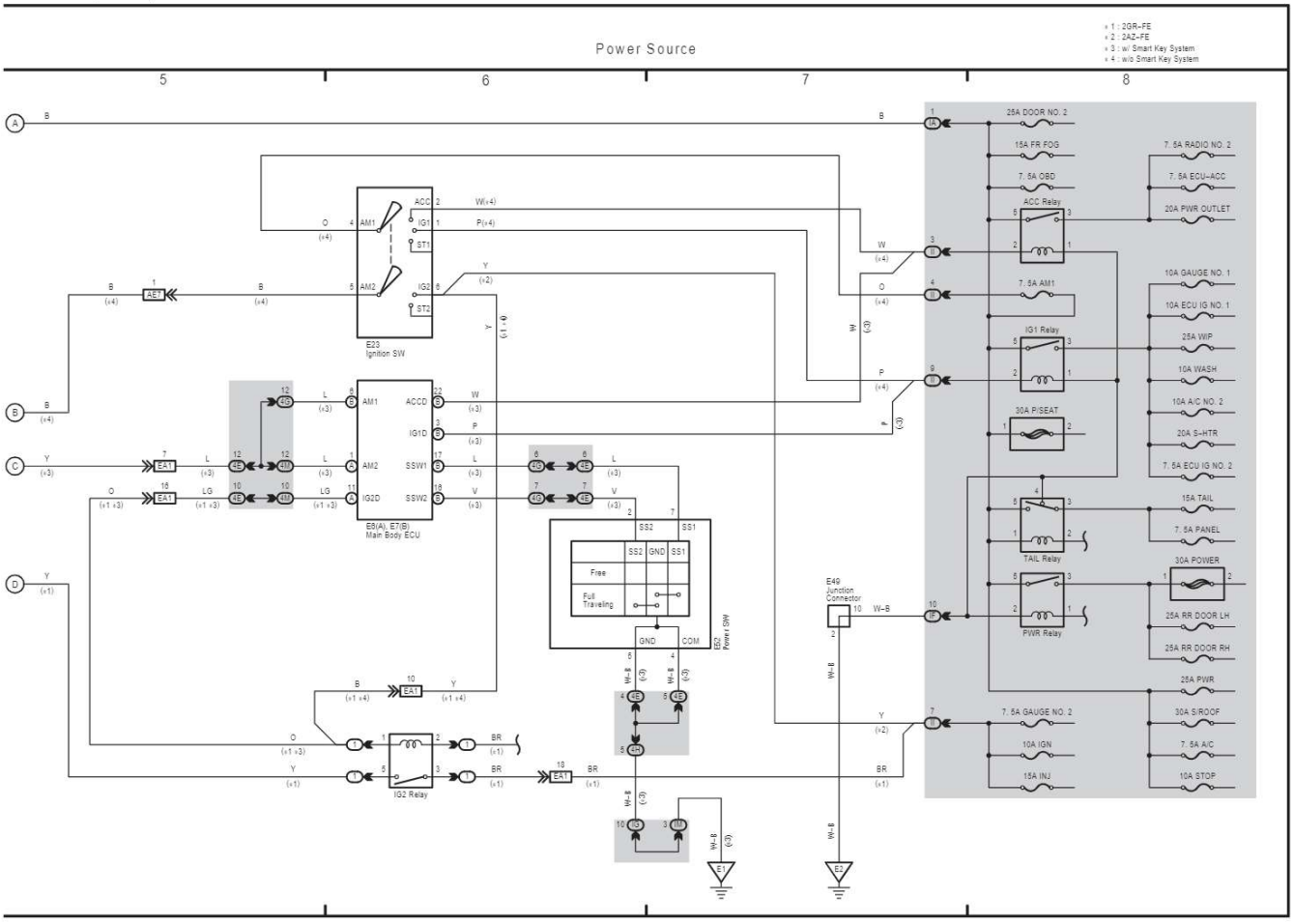
SYSTEMS	LOCATION
ABS (w/ VSC TMC Made)	12–1
ABS (w/ VSC TMMK Made)	13–1
ABS (w/o VSC)	14–1
Air Conditioning	27–1
Audio System (6 Speaker)	24–1
Audio System (8 Speaker w/ Navigation System)	22–1
Audio System (8 Speaker w/o Navigation System)	23–1
Automatic Glare–Resistant EC Mirror	17–4
Back–Up Light	10–1
Charging	4–3
Clock	17–1
Combination Meter	25–1
Cooling Fan (2GR–FE)	26–1
Cruise Control (2AZ–FE)	8–13
Cruise Control (2GR–FE)	2–18
Data Link Connector 3	9–1
Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	8–14
Electronically Controlled Transmission and A/T Indicator (2GR–FE)	2–19
Engine Control (2AZ–FE)	8–1
Engine Control (2GR–FE)	7–1
Engine Immobiliser System (w/o Smart Key System)	9–3
Horn	21–2
Ignition (2AZ–FE)	6–1
Ignition (2GR–FE)	5–1
Mirror Heater	18–3
Multiplex Communication System (CAN)	2–1
∗ Automatic Light Control	
∗ Door Lock Control	
∗ Fog Light	
∗ Garage Door Opener	
∗ Headlight	
∗ Illumination	
∗ Interior Light	
∗ Key Reminder	
∗ Light Auto Turn Off System	
∗ Luggage Compartment Door Opener	
∗ Power Window	
∗ Seat Belt Warning	
∗ Taillight	
∗ Theft Deterrent	
∗ Wireless Door Lock Control (w/o Smart Key System)	
Navigation System	22–1
Power Outlet	21–1
Power Seat (Driver's Seat)	20–1
Power Seat (Front Passenger's Seat)	20–3
Power Source	1–1
Radiator Fan and Condenser Fan (2AZ–FE)	26–3
Rear Window Defogger	18–3
Remote Control Mirror	18–1
Seat Heater	19–3
Shift Lock	21–4
Sliding Roof	17–2
Smart Key System	3–1
∗ Engine Immobiliser	
∗ Push Button Start System	
∗ Steering Lock	
∗ Wireless Door Lock Control	
SRS	15–1
Starting (w/o Smart Key System)	4–1
Stop Light	10–3
Tire Pressure Warning System	16–1
TRAC (TMC Made)	12–1
TRAC (TMMK Made)	13–1
Turn Signal and Hazard Warning Light	11–1
VSC (TMC Made)	12–1
VSC (TMMK Made)	13–1
Wiper and Washer	19–1

1 CAMRY

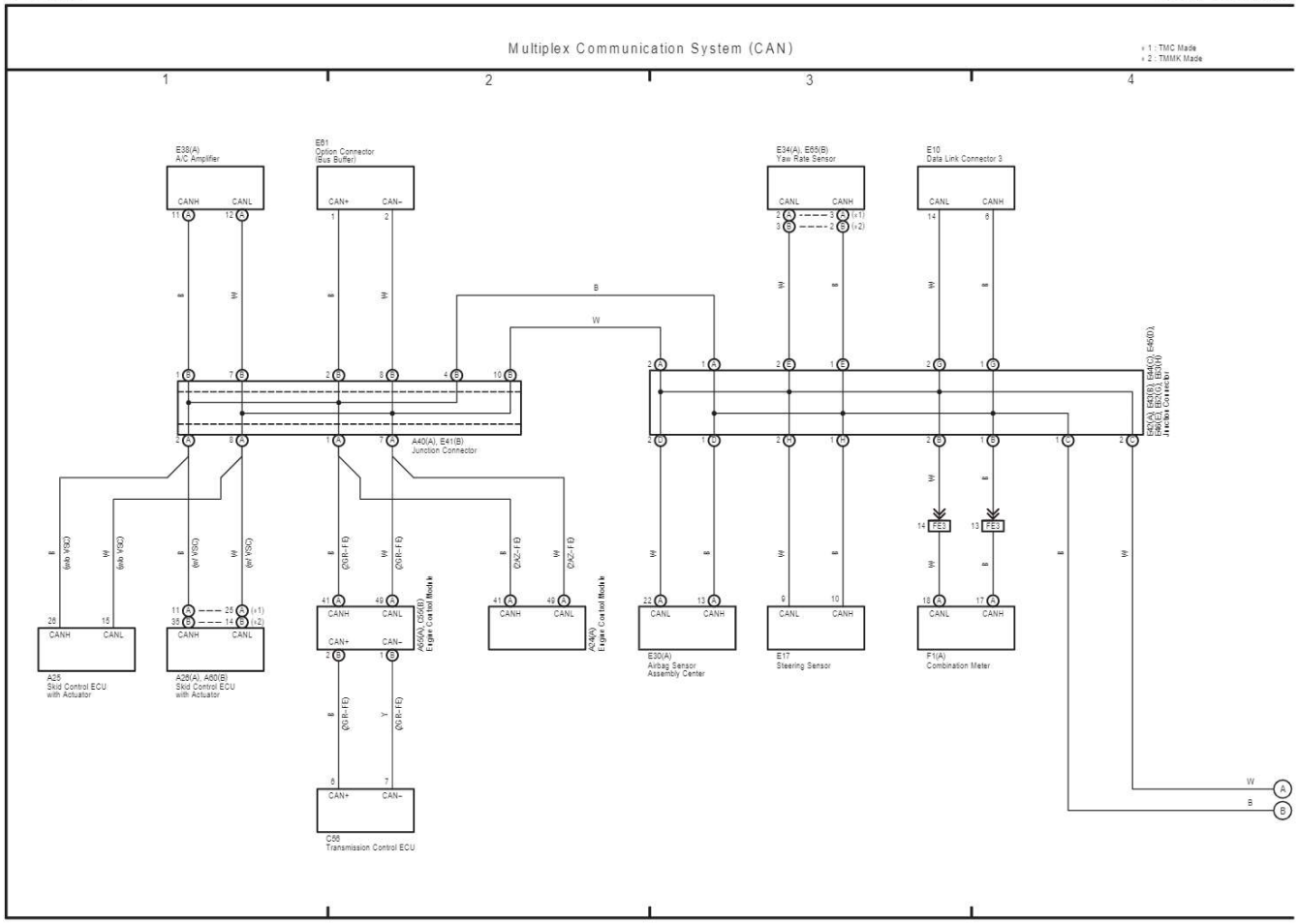
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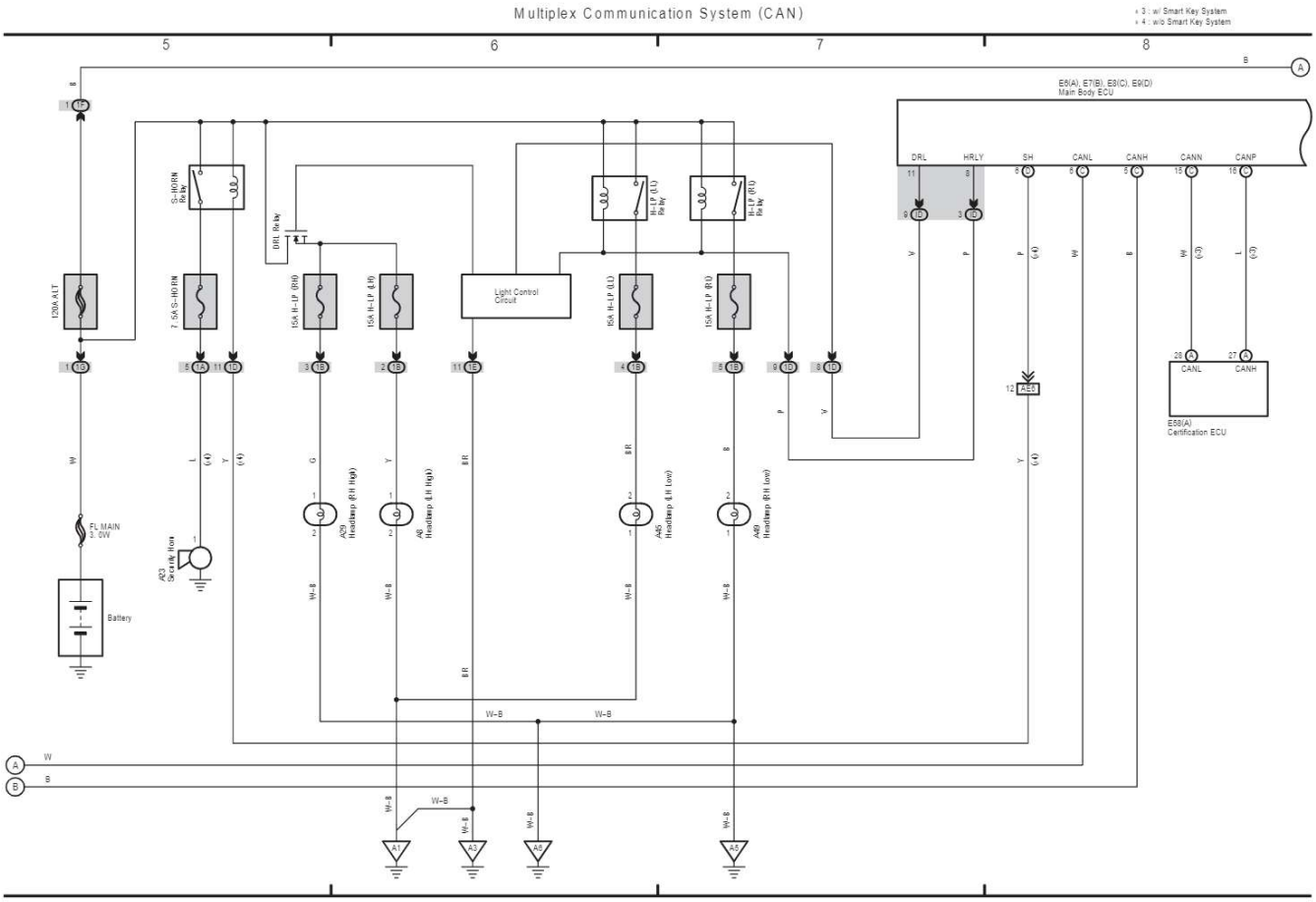


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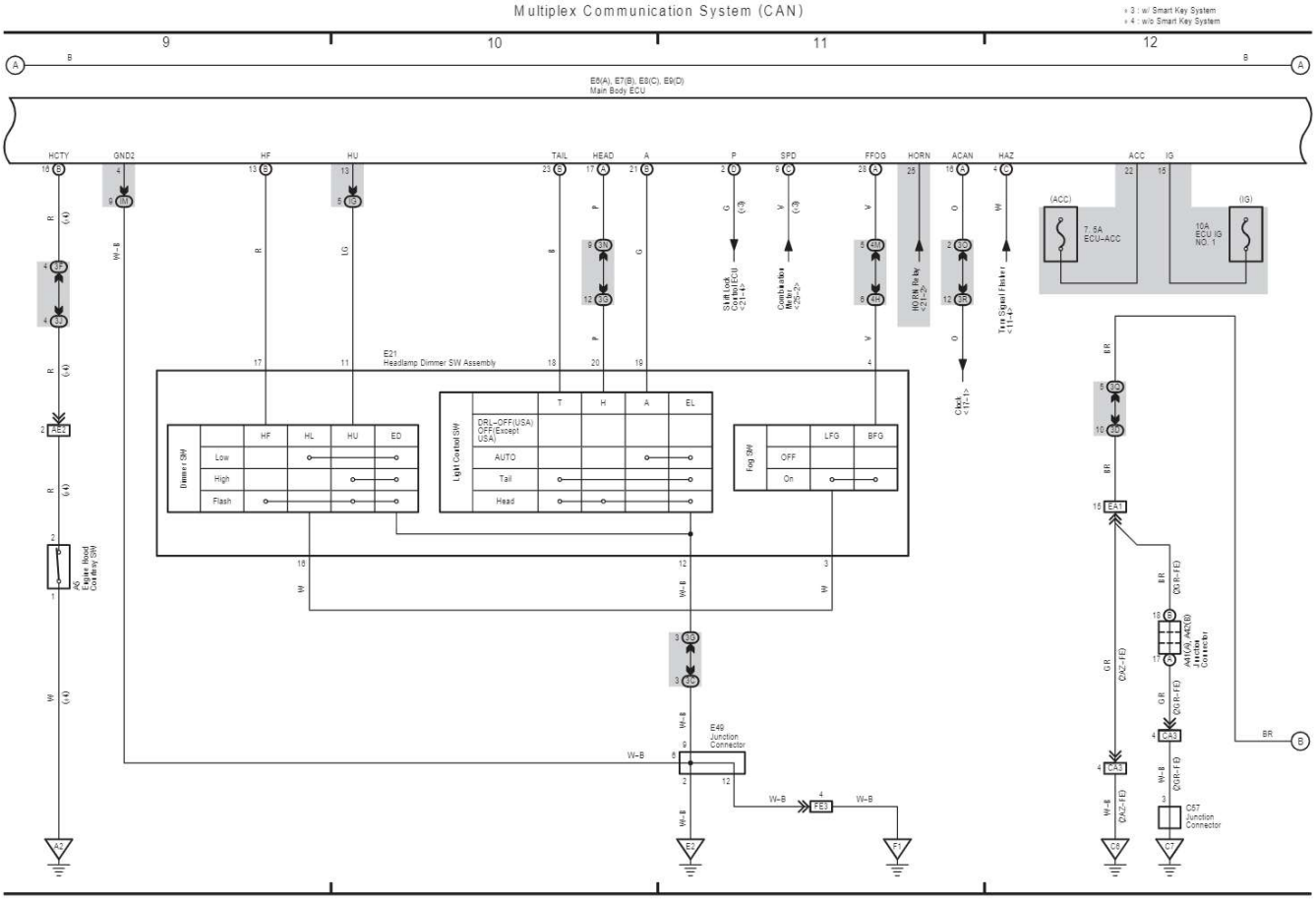
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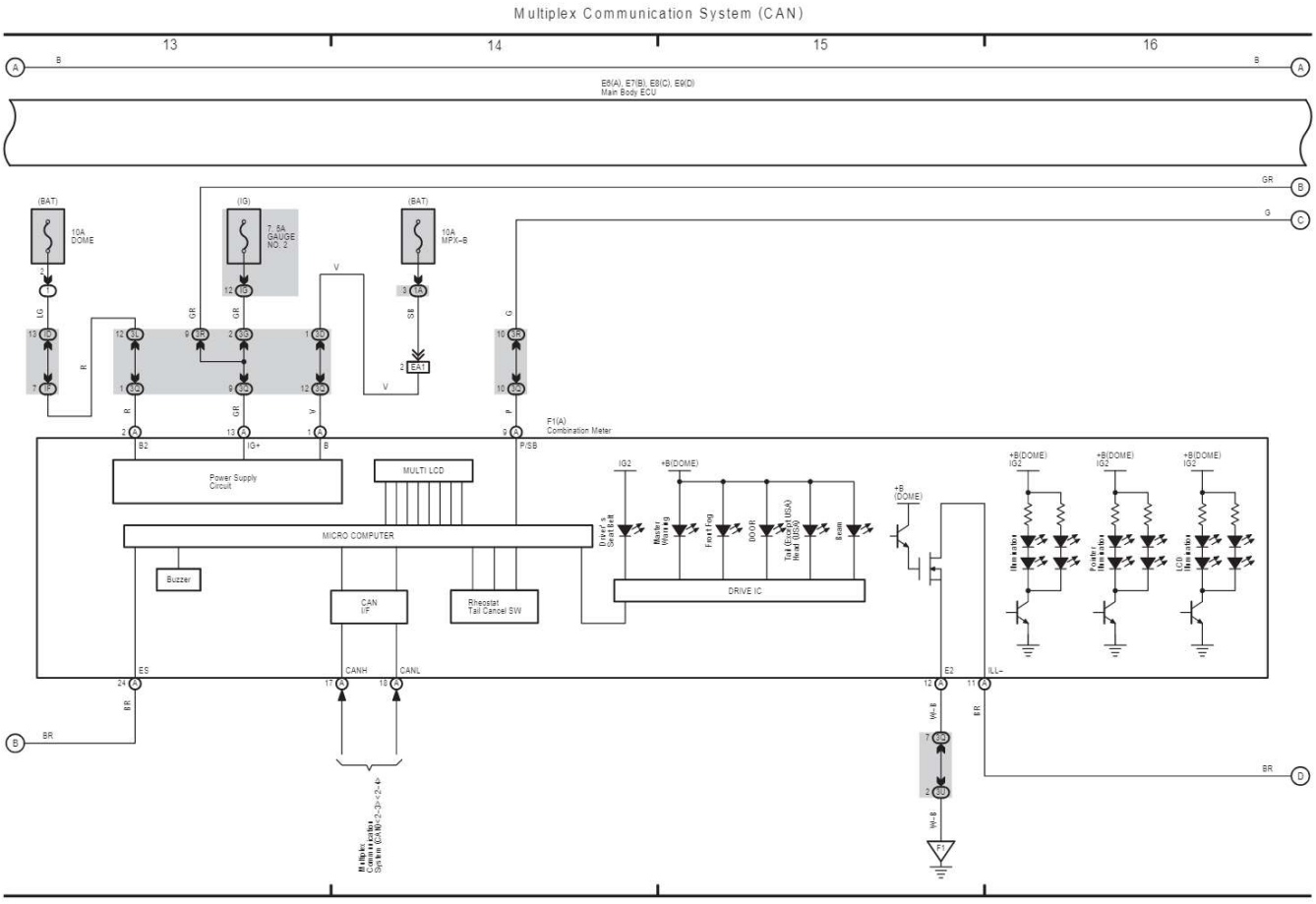



Multiplex Communication System (CAN)
* 3 : w/ Smart Key System
* 4 : w/o Smart Key System
5
6
7
8
E8(A), E7(B), E8(C), E8(D)
Main Body ECU
DRL
HRLY
SH
CANL
CANH
CANN
CANP
E58(A)
Certification ECU
120A ALT
7.5A S-HORN
S-HORN Relay
DRL Relay
15A H-LP (RH)
15A H-LP (LH)
Light Control Circuit
H-LP (LL) Relay
H-LP (RL) Relay
15A H-LP (LL)
15A H-LP (RL)
FL MAIN
3.0W
Battery
A21
Security Horn
A20
Headlamp (RH High)
A19
Headlamp (LH High)
A18
Headlamp (LH Low)
A17
Headlamp (RH Low)
W-B
A1
A3
A4
A5

2 CAMRY (Cont' d)

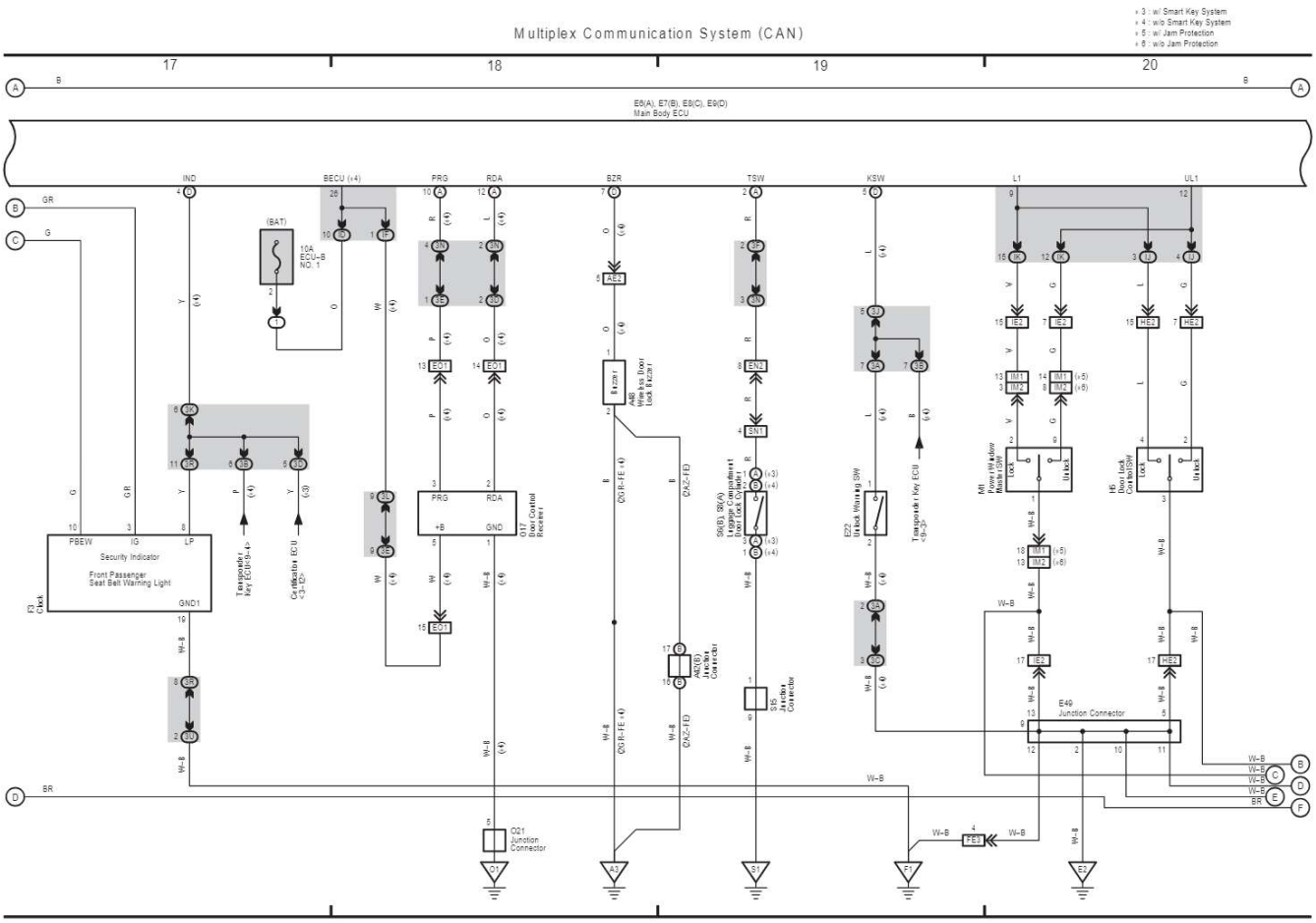
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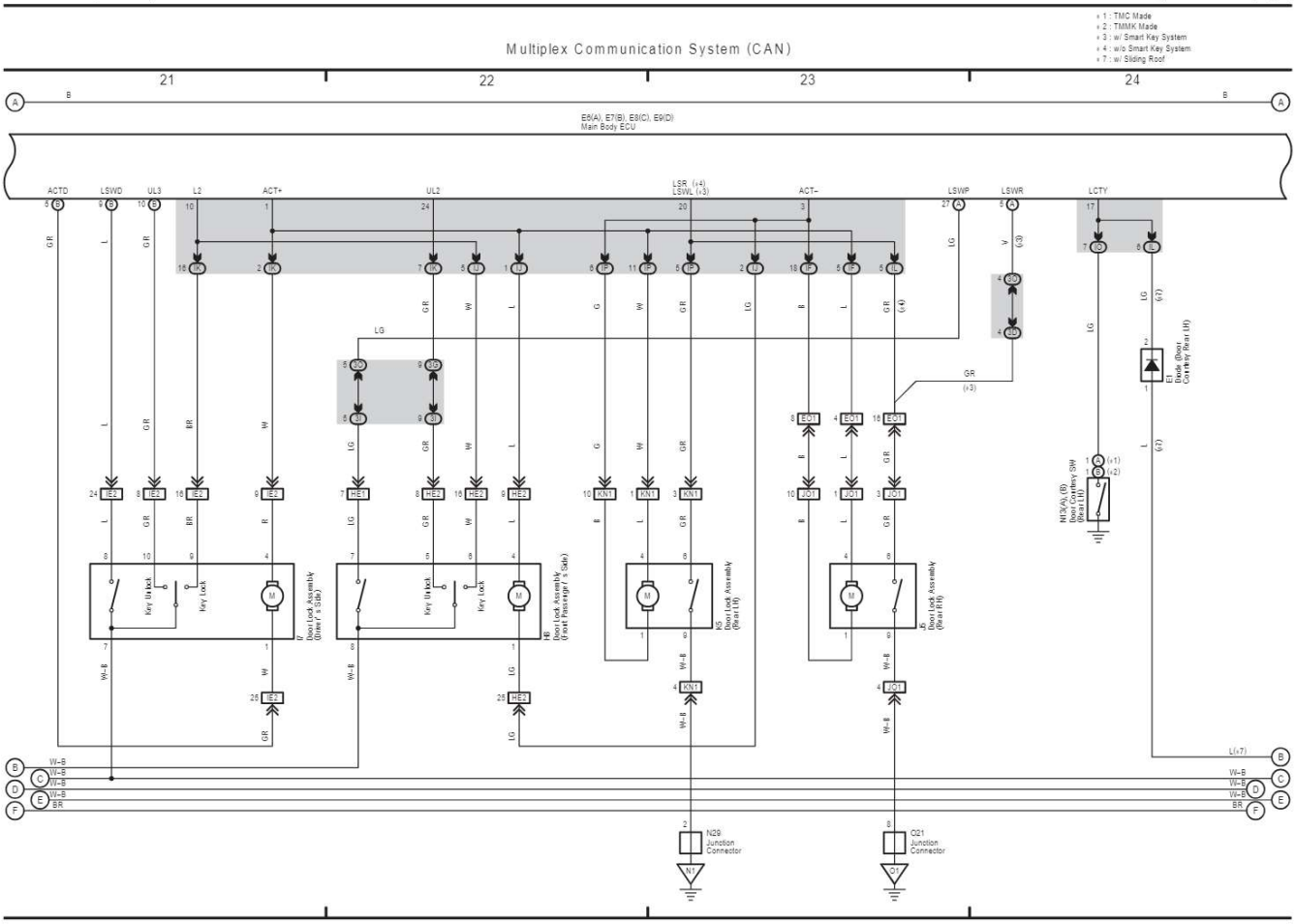

Multiplex Communication System (CAN)
13
14
15
16
E8(A), E7(B), E8(C), E9(D)
Main Body ECU
(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX-B
EAT
F1(A)
Combination Meter
B2
IG+
B
P/SB
Power Supply
Circuit
MULTI LCD
MICRO COMPUTER
Buzzer
CAN
I/F
Rheostat
Tail Cancel SW
DRIVE IC
IG2
+B(DOME)
Driver's Seat Belt
Master Warning
Front Fog
DOOR
Tail (Except USA)
Head (USA)
Beam
Illumination
Power Illumination
LCD Illumination
ES
CANH
CANL
E2
ILL-
Wi-fi
F1
Bridge:
Connection
Option (Cable)
2-3×-2-4-

2 CAMRY (Cont' d)

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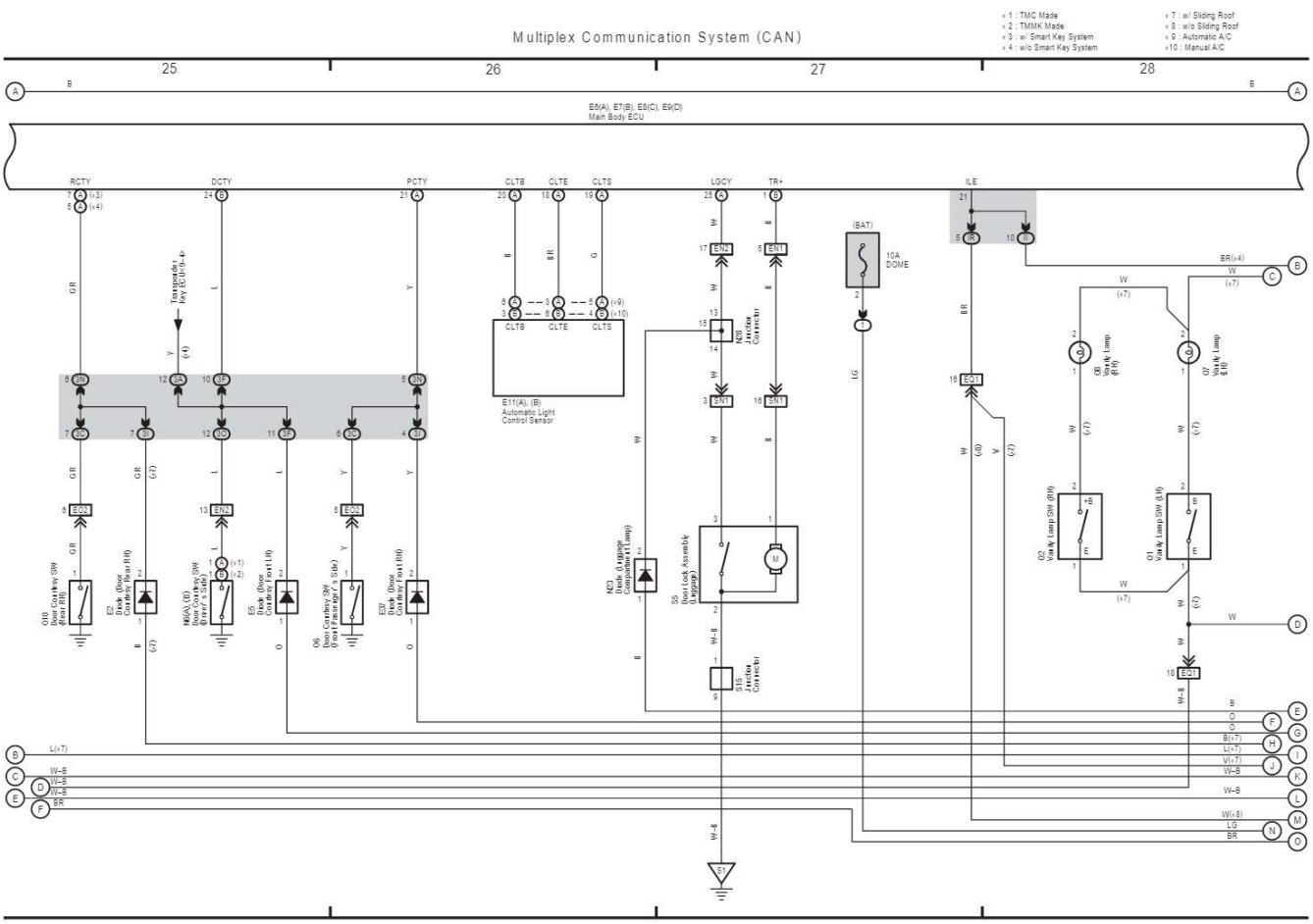


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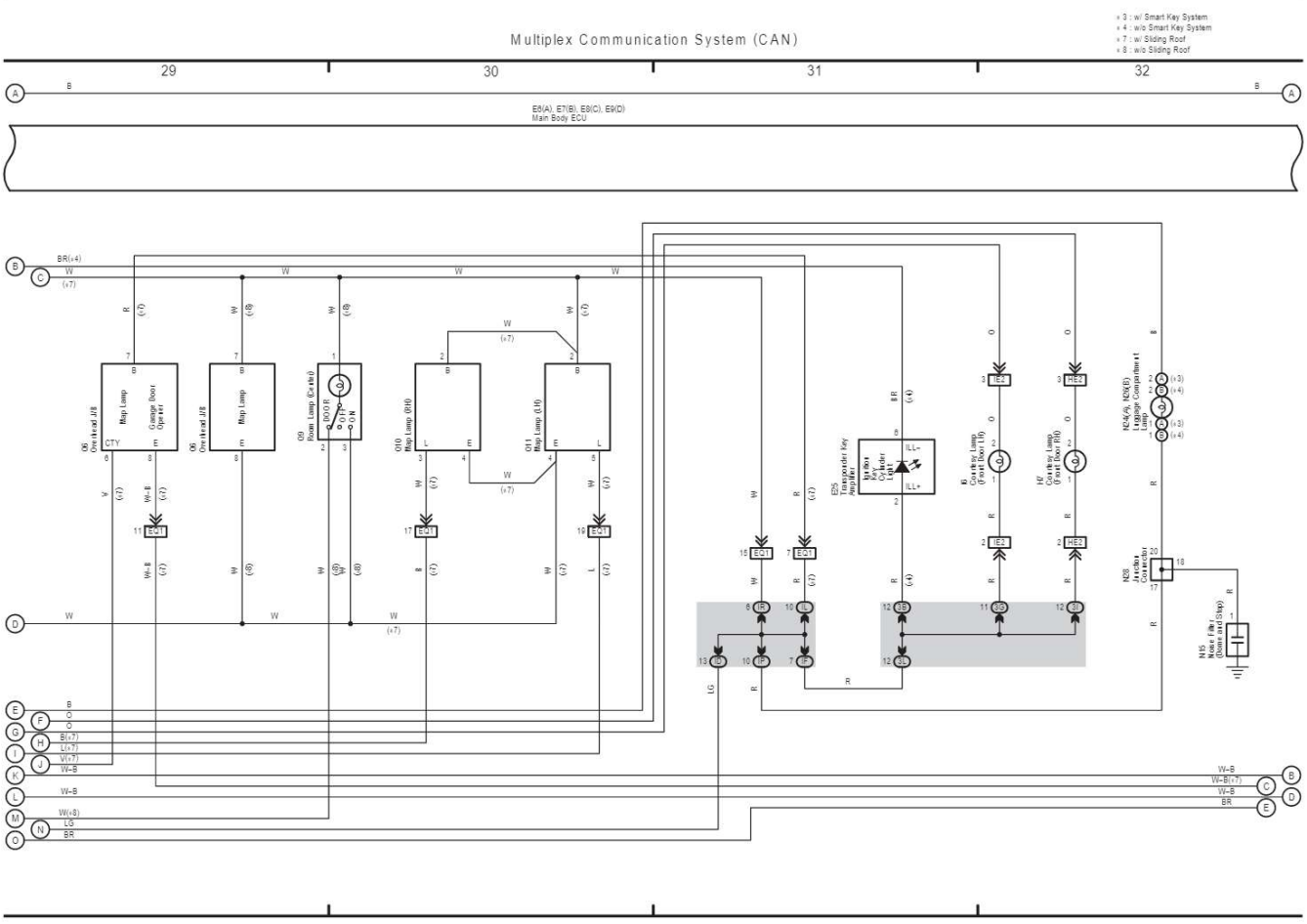


2 CAMRY (Cont' d)

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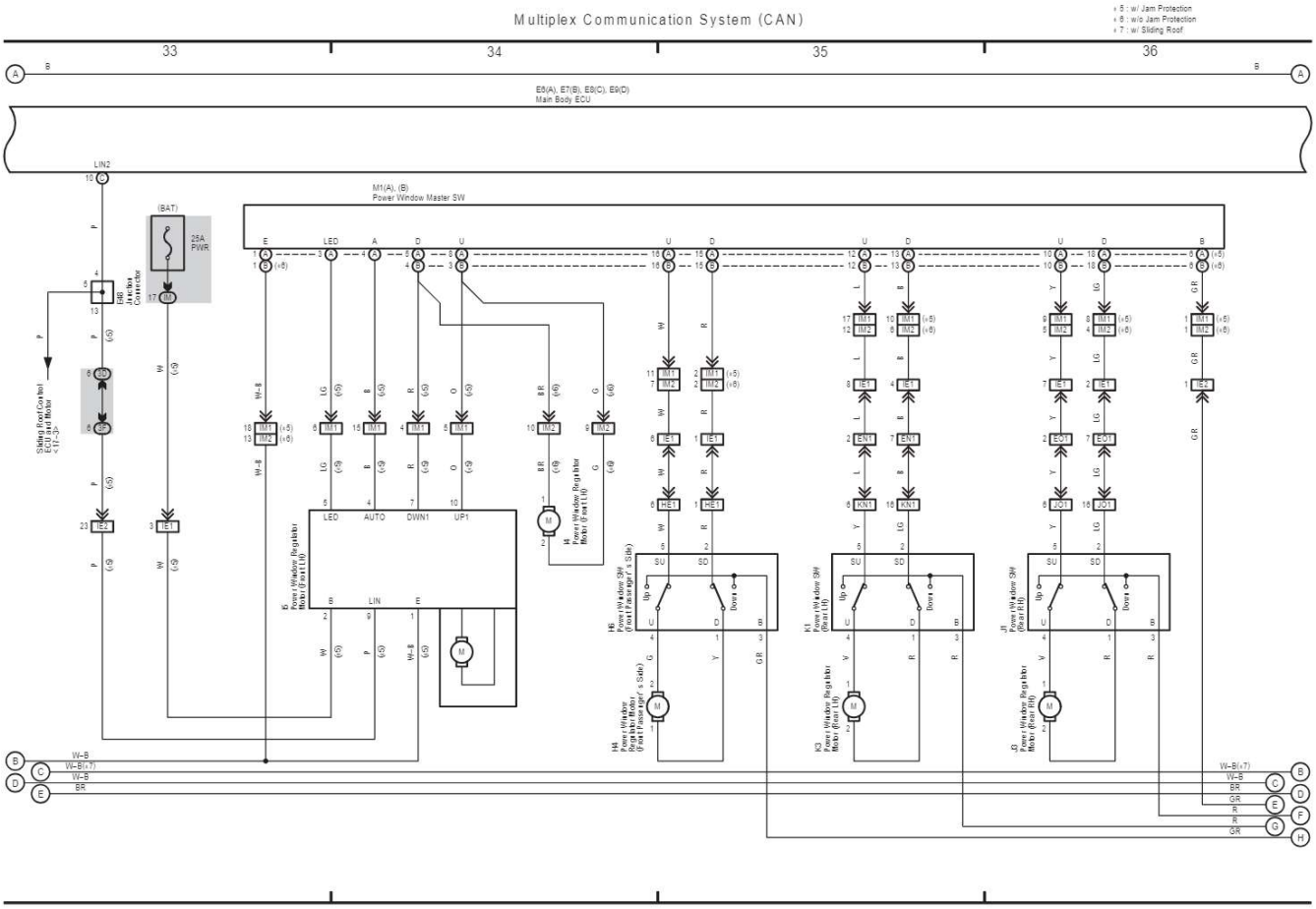


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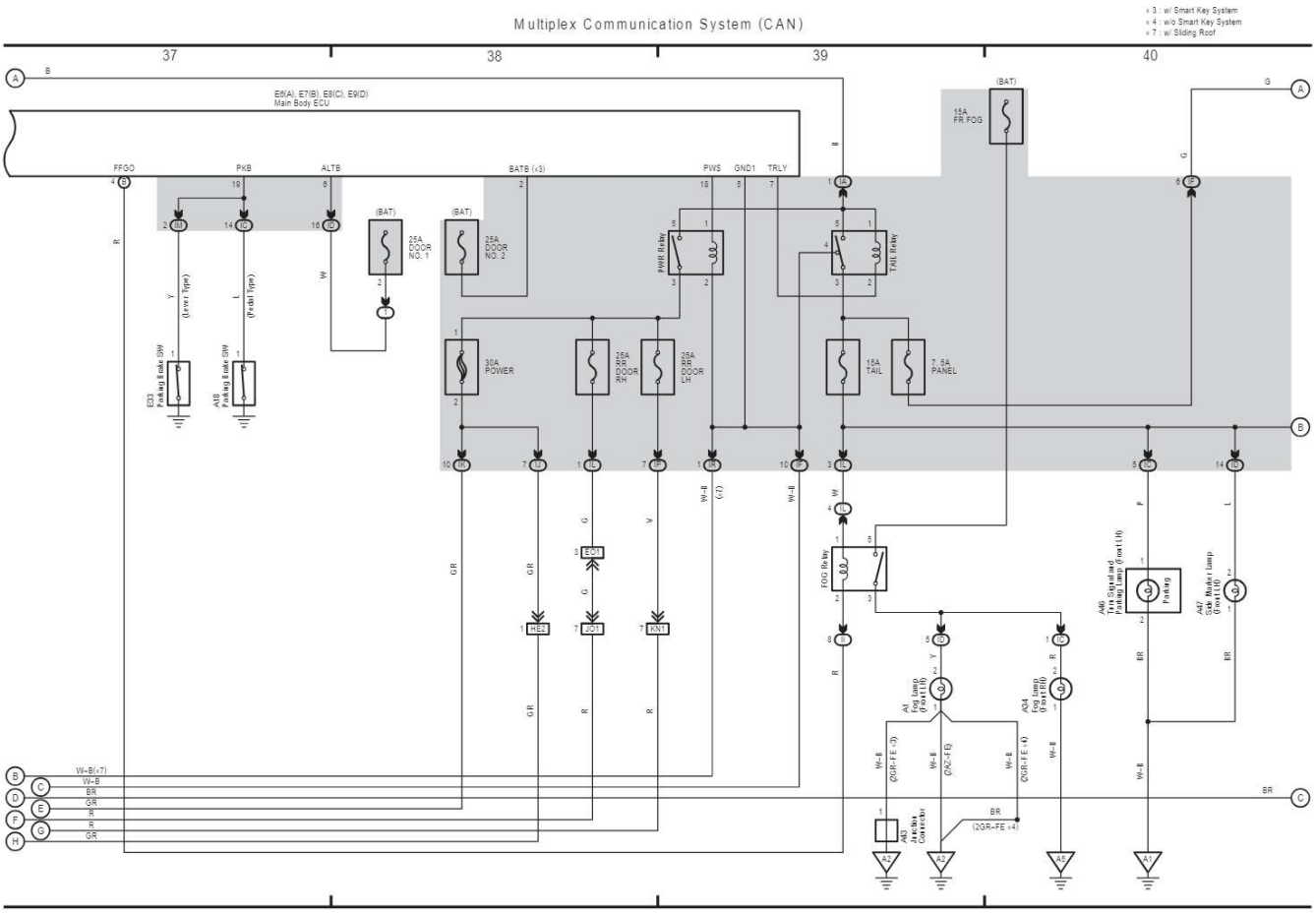


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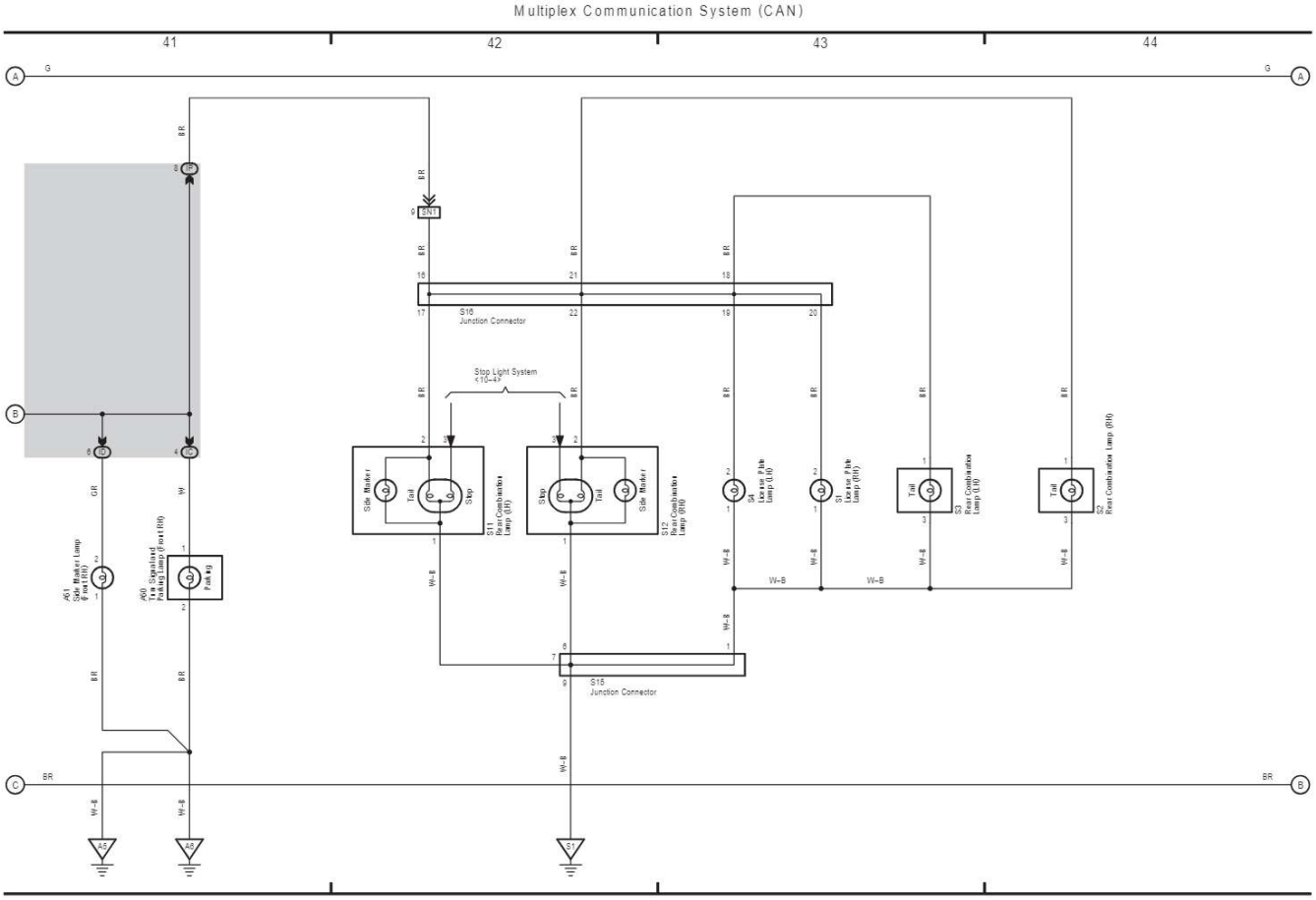


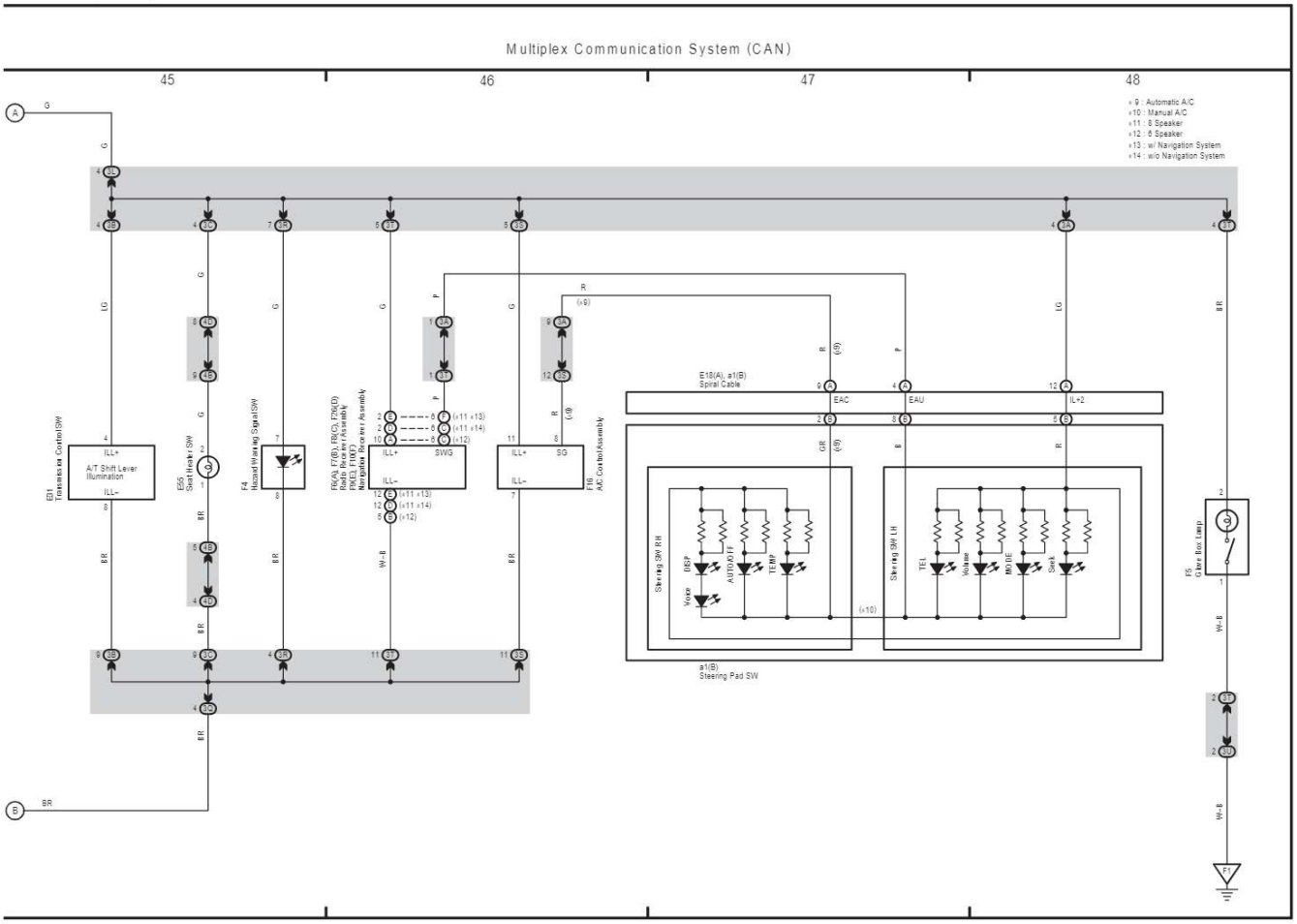
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2 CAMRY (Cont' d)

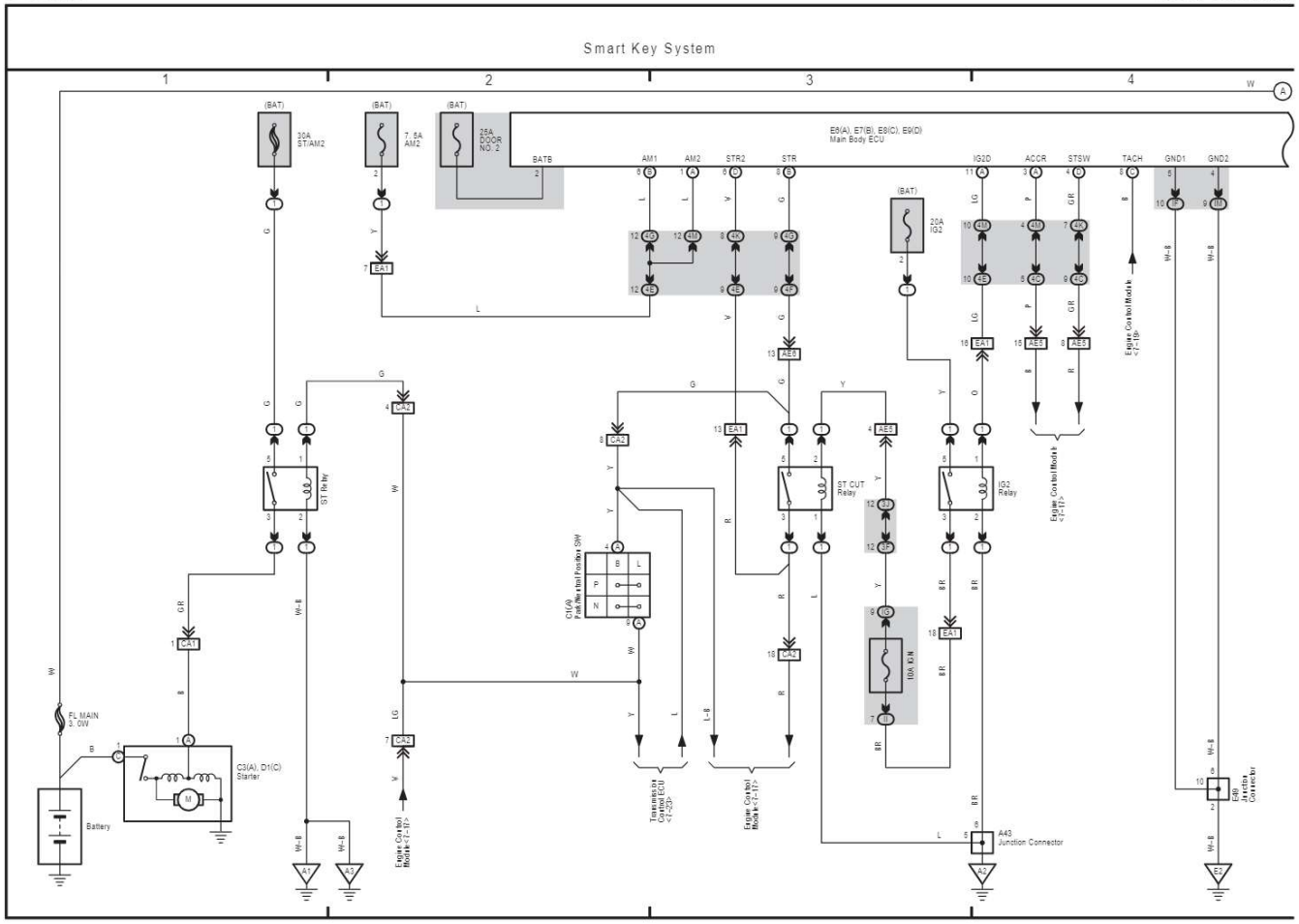
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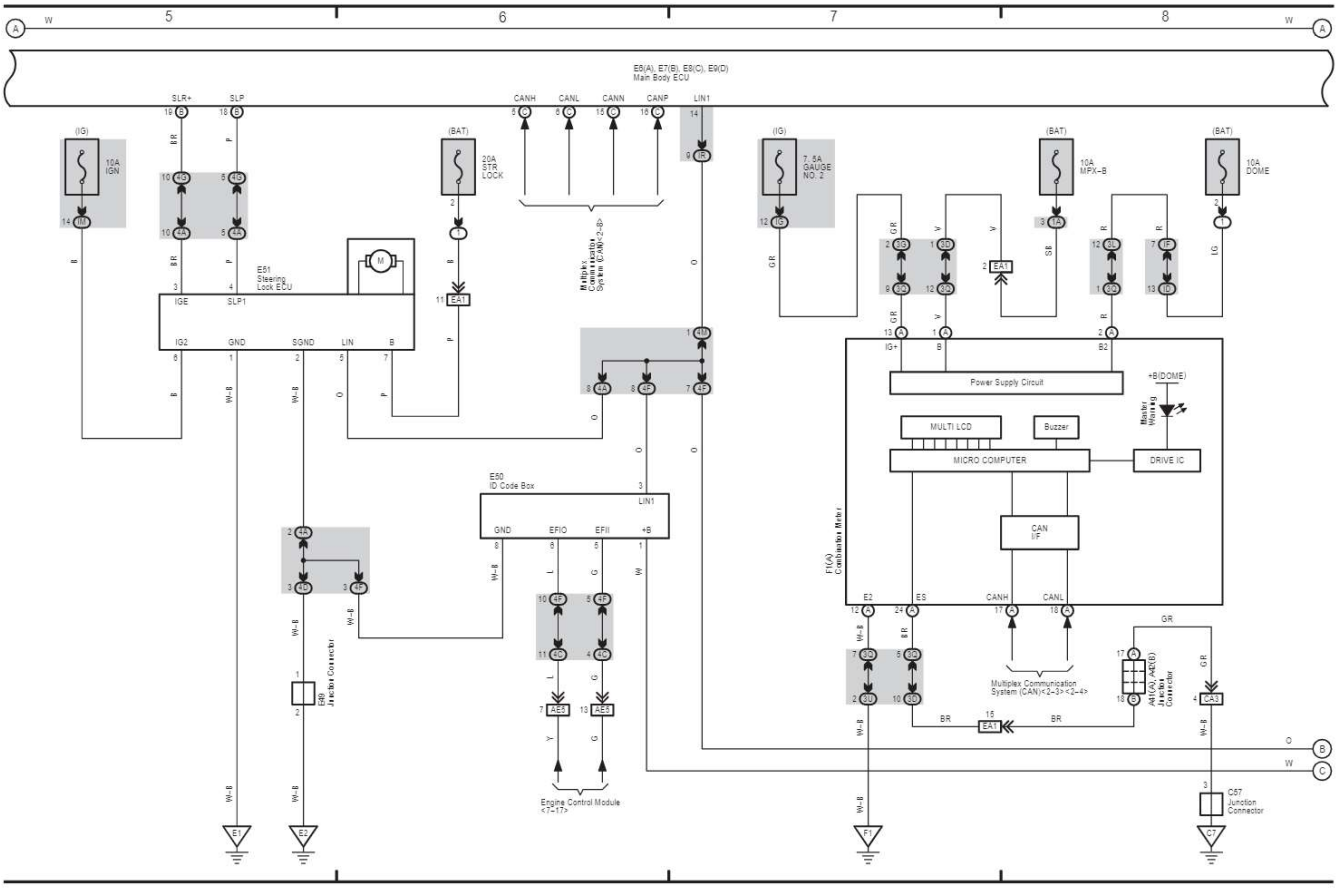

Multiplex Communication System (CAN)
45
46
47
48
*9 : Automatic A/C
*10 : Manual A/C
*11 : 6 Speaker
*12 : 8 Speaker
*13 : w/ Navigation System
*14 : w/o Navigation System
E18(A), a1(B)
Spiral Cable
EAC
EAU
IL+2
a1(B)
Steering Pad SW
Steering SW RH
Steering SW LH
Voice
DISP
AUDIO
TEMP
TEL
Volume
MODE
Seek
E51
Transmission Control SW
A/T Shift Lever Illumination
E55
Seat Heater SW
F4
Heated Steering Wheel SW
F16
A/C Control Assembly
F5
Glove Box Lamp
ILL+
ILL-
SWG
SG

3 CAMRY

(Cont. next page)

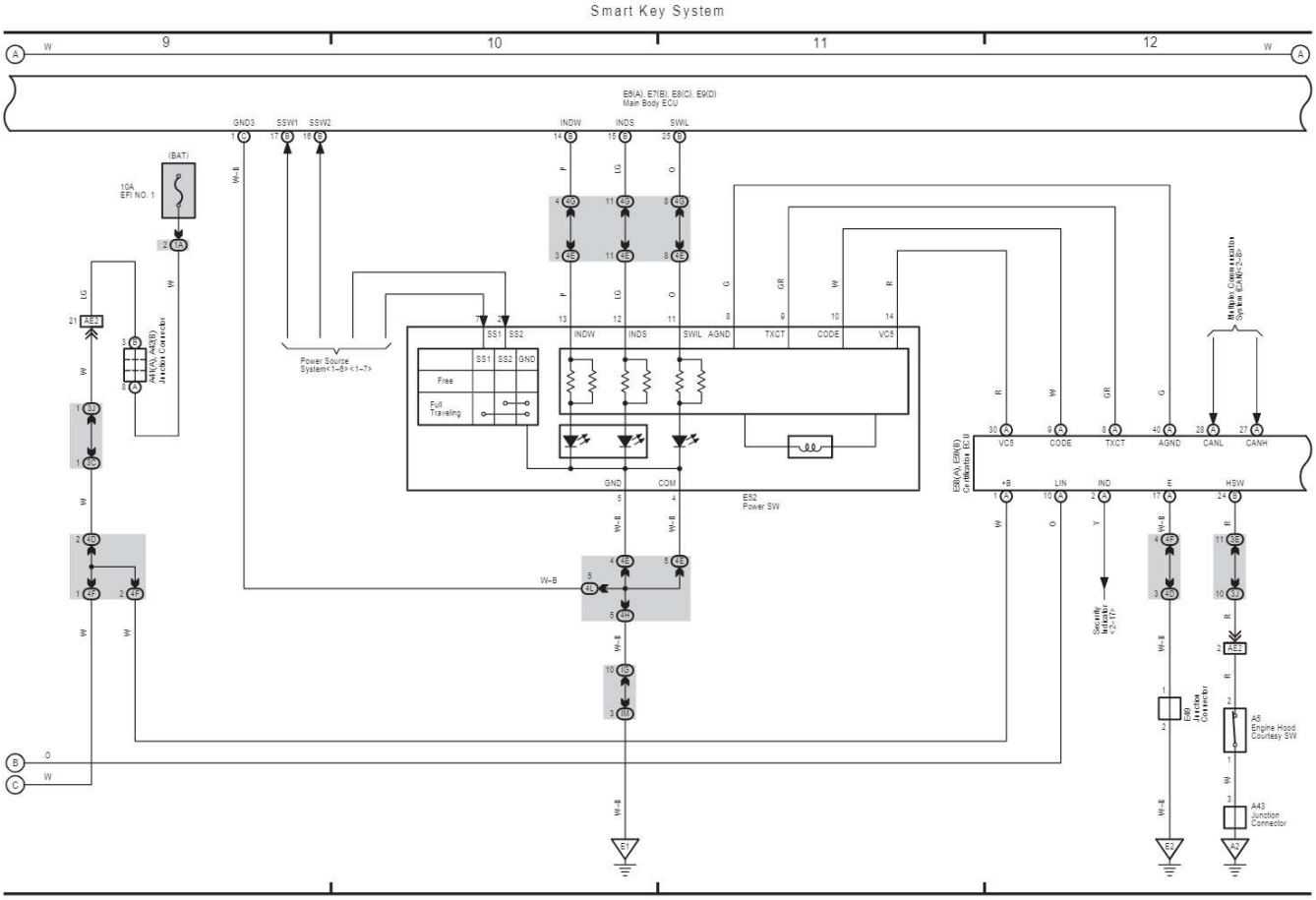


Smart Key System

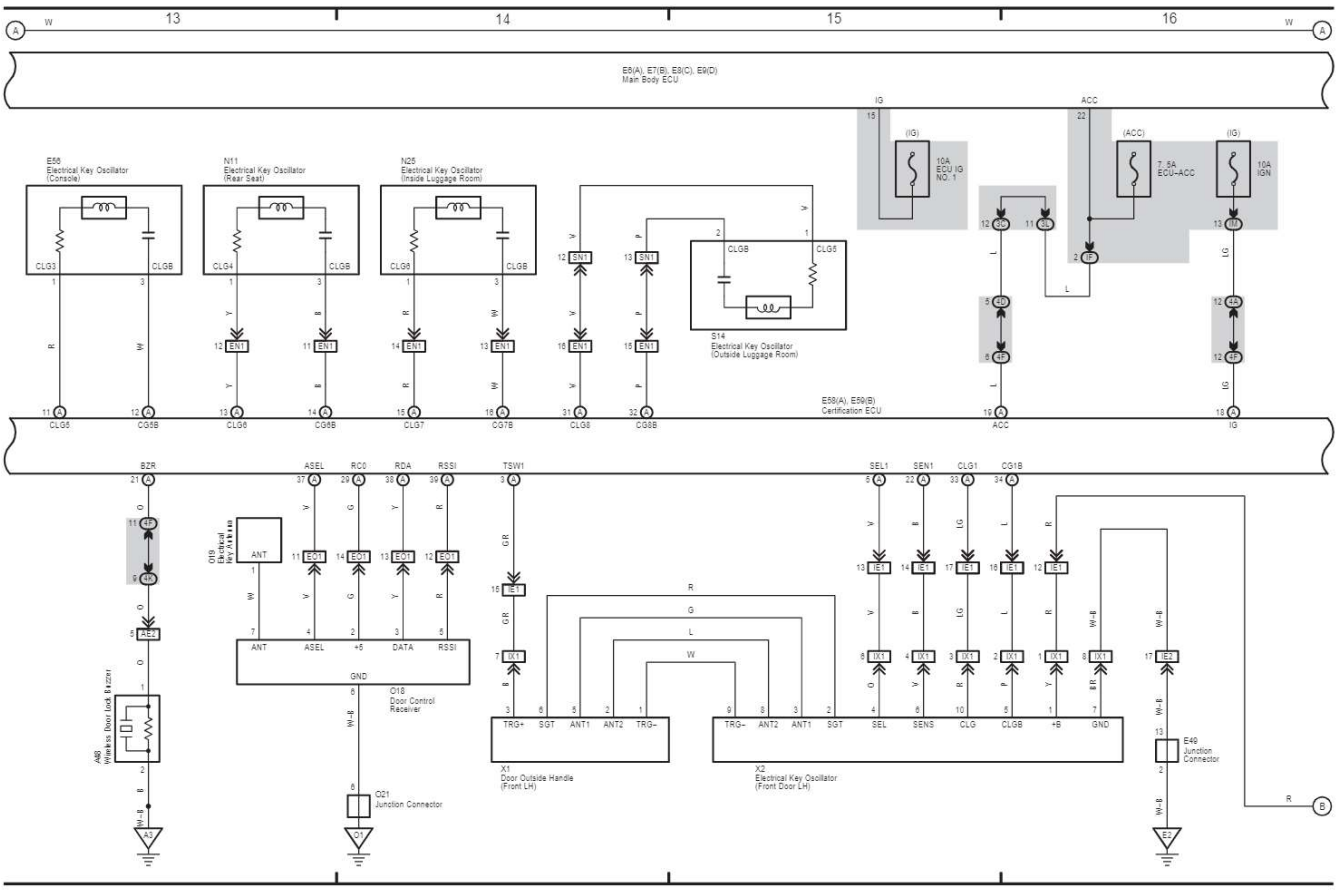


3 CAMRY (Cont' d)

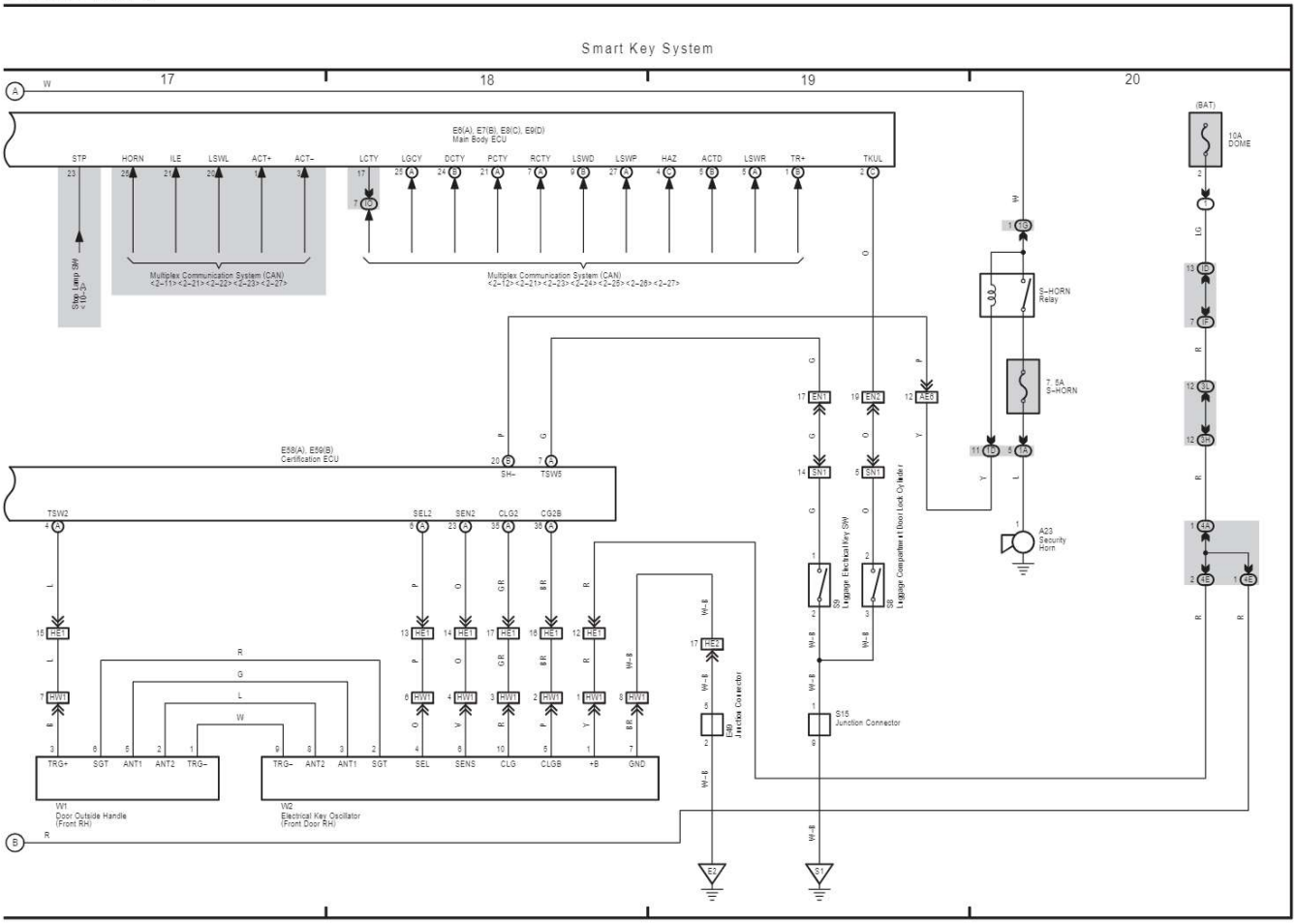
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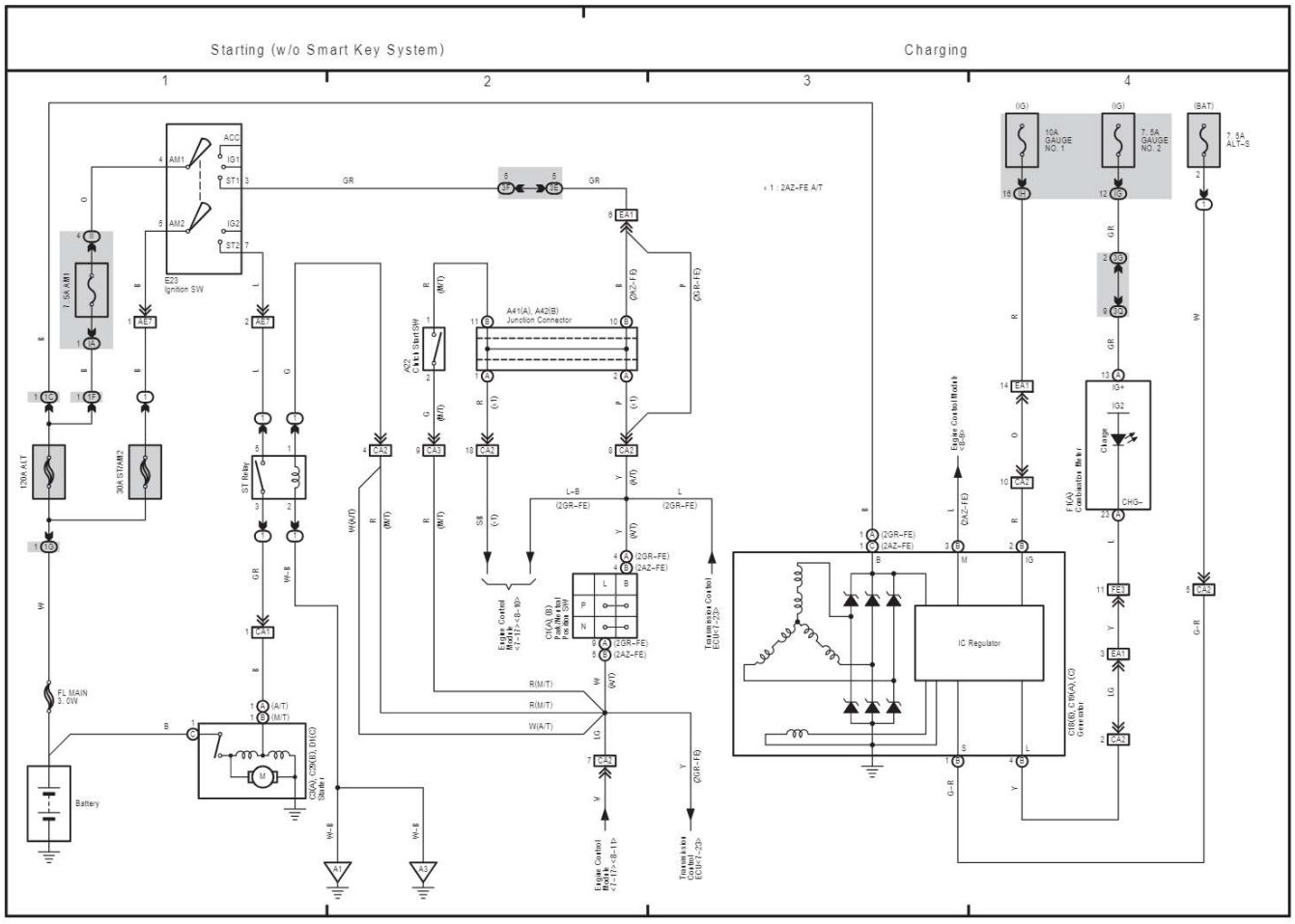


Smart Key System

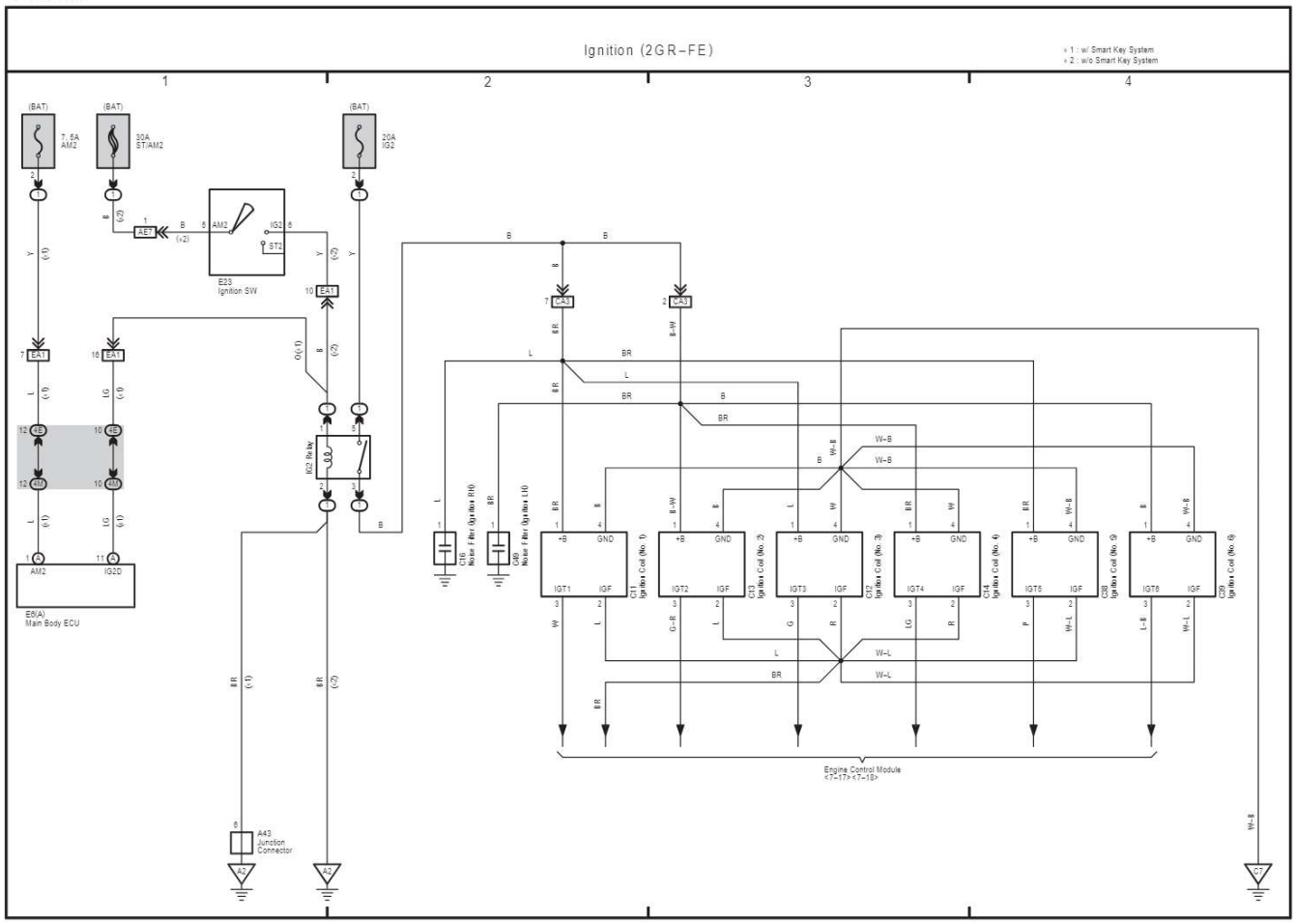


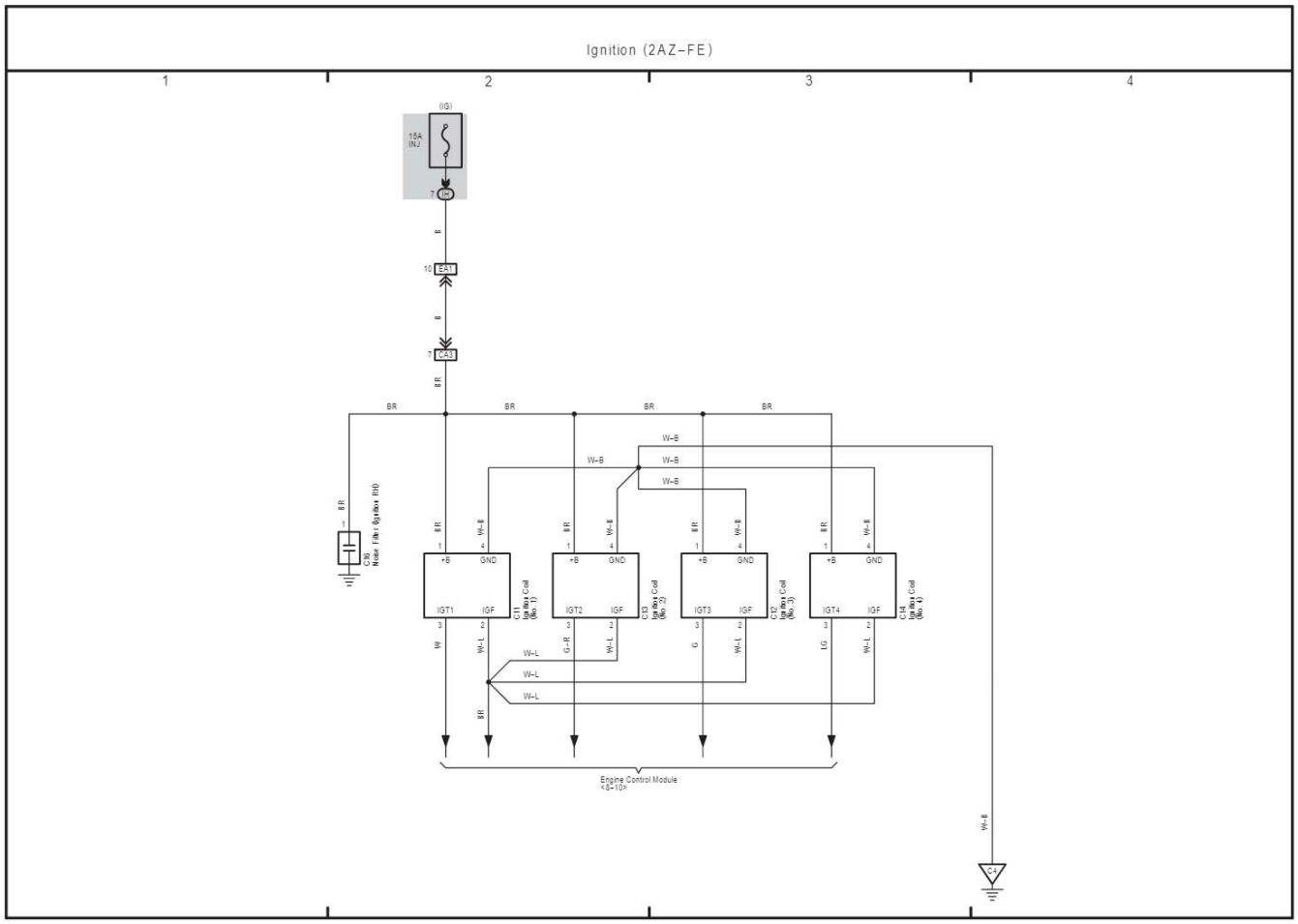
3 CAMRY (Cont' d)



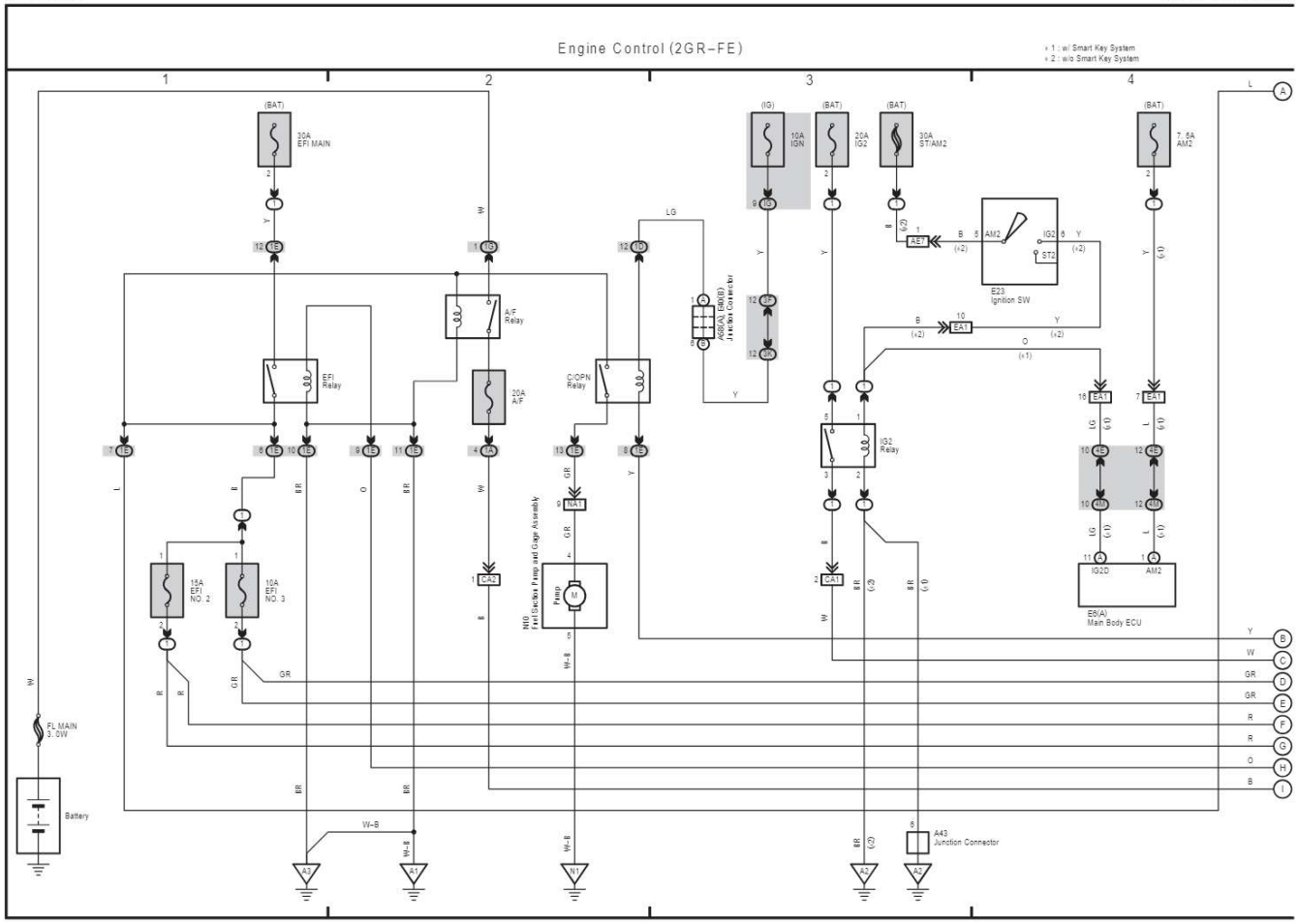

Starting (w/o Smart Key System)
Charging
1
2
3
4
* 1 : 2AZ-FE A/T
ACC
IG1
ST1
IG2
ST2
AM1
AM2
E23
Ignition SW
1.5A AM1
7.5A AM2
120A ALT
30A ST/AM2
ST Relay
FL MAIN
3.0W
Battery
M
C5(A), C26(6), D1(C)
Starter
A1
A2
A41(A), A42(B)
Junction Connector
A/C
Clutch Shut SW
Engine Control
ECU
<7-17><8-1P>
Transmission Control
ECU
<7-17><8-1P>
C1(A), (B)
Park/Neutral
Position SW
Transmission Control
ECU<7-23>
Engine Control Module
<8-8>
IC Regulator
C1(B), C26(A), (C)
Generator
10A
GAUGE
NO. 1
7.5A
GAUGE
NO. 2
7.5A
ALT-S
F1(A)
Combination Meter
Charge
IG+
IG2
CHG-
(2GR-FE)
(2AZ-FE)
(A/T)
(M/T)
R(M/T)
W(A/T)

5 CAMRY

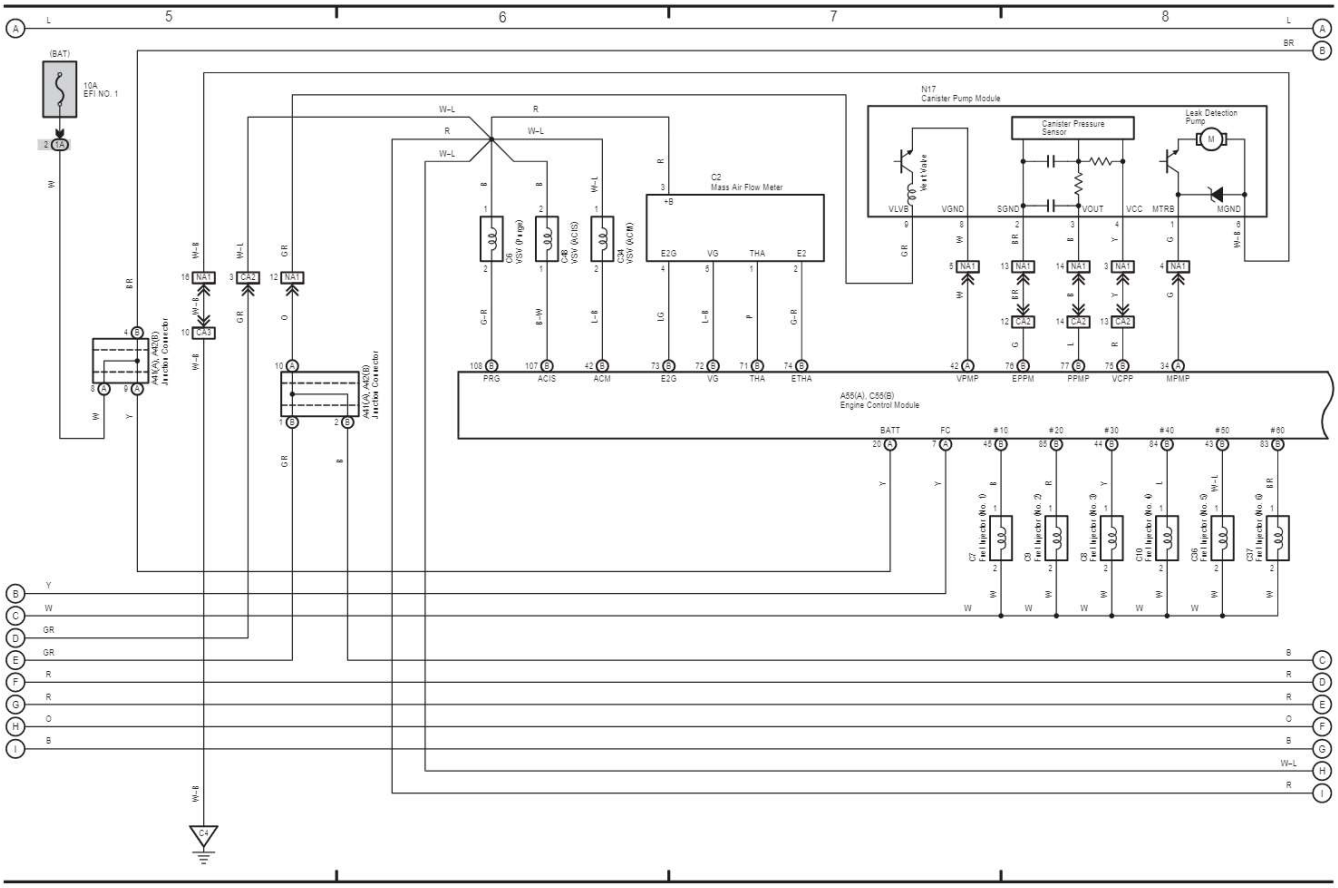

Ignition (2GR-FE)
*1 : w/ Smart Key System
*2 : w/o Smart Key System
1
2
3
4
(BAT)
7.5A AM2
30A ST/AM2
20A IG2
E23 Ignition SW
AM2
IG2
ST2
AET
EA1
CA3
E8(A) Main Body ECU
IG2D
IG2 Relay
C16 Noise Filter (Ignition RH)
C40 Noise Filter (Ignition LH)
C11 Ignition Coil (No. 1)
C13 Ignition Coil (No. 2)
C12 Ignition Coil (No. 3)
C14 Ignition Coil (No. 4)
C38 Ignition Coil (No. 5)
C39 Ignition Coil (No. 6)
+B
GND
IGT1
IGT2
IGT3
IGT4
IGT5
IGT6
IGF
A43 Junction Connector
Engine Control Module
<17><17><17><18>

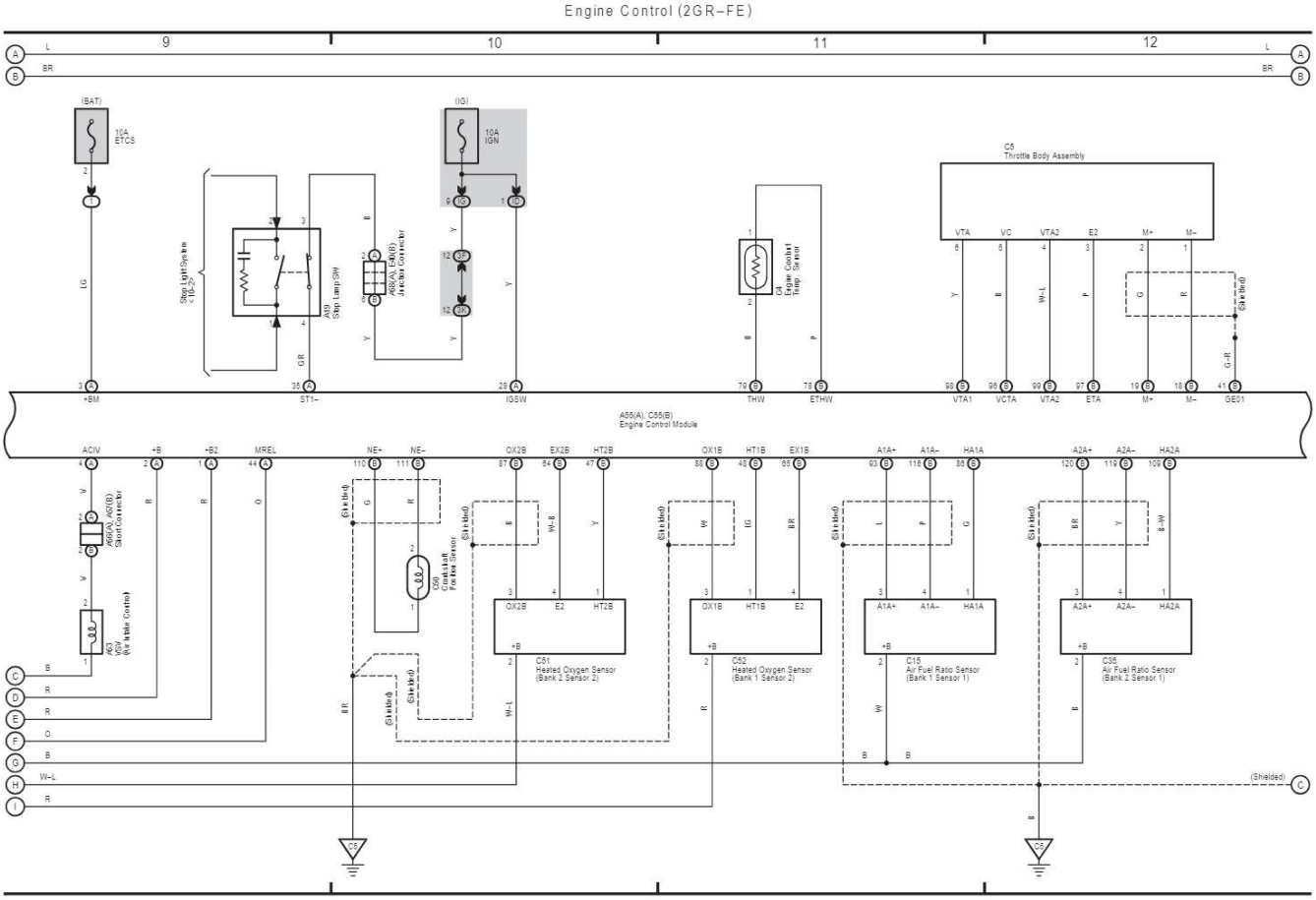

Ignition (2AZ–FE)
1
2
3
4
(IG)
15A
INJ
7
IG1
B
10
EB1
B
7
CA3
BR
BR
BR
BR
BR
W–B
W–B
W–B
W–B
BR
1
C38
Main Fuse Ignition RH
BR
1
W–B
4
+B
GND
IGT1
IGF
3
2
C18
Ignition Coil
(No.1)
W
W–L
BR
+B
GND
IGT2
IGF
C13
Ignition Coil
(No.2)
G–R
W–L
+B
GND
IGT3
IGF
C15
Ignition Coil
(No.3)
G
W–L
+B
GND
IGT4
IGF
C14
Ignition Coil
(No.4)
LG
W–L
W–L
W–L
W–L
Engine Control Module
<8–10>
W–B
C4

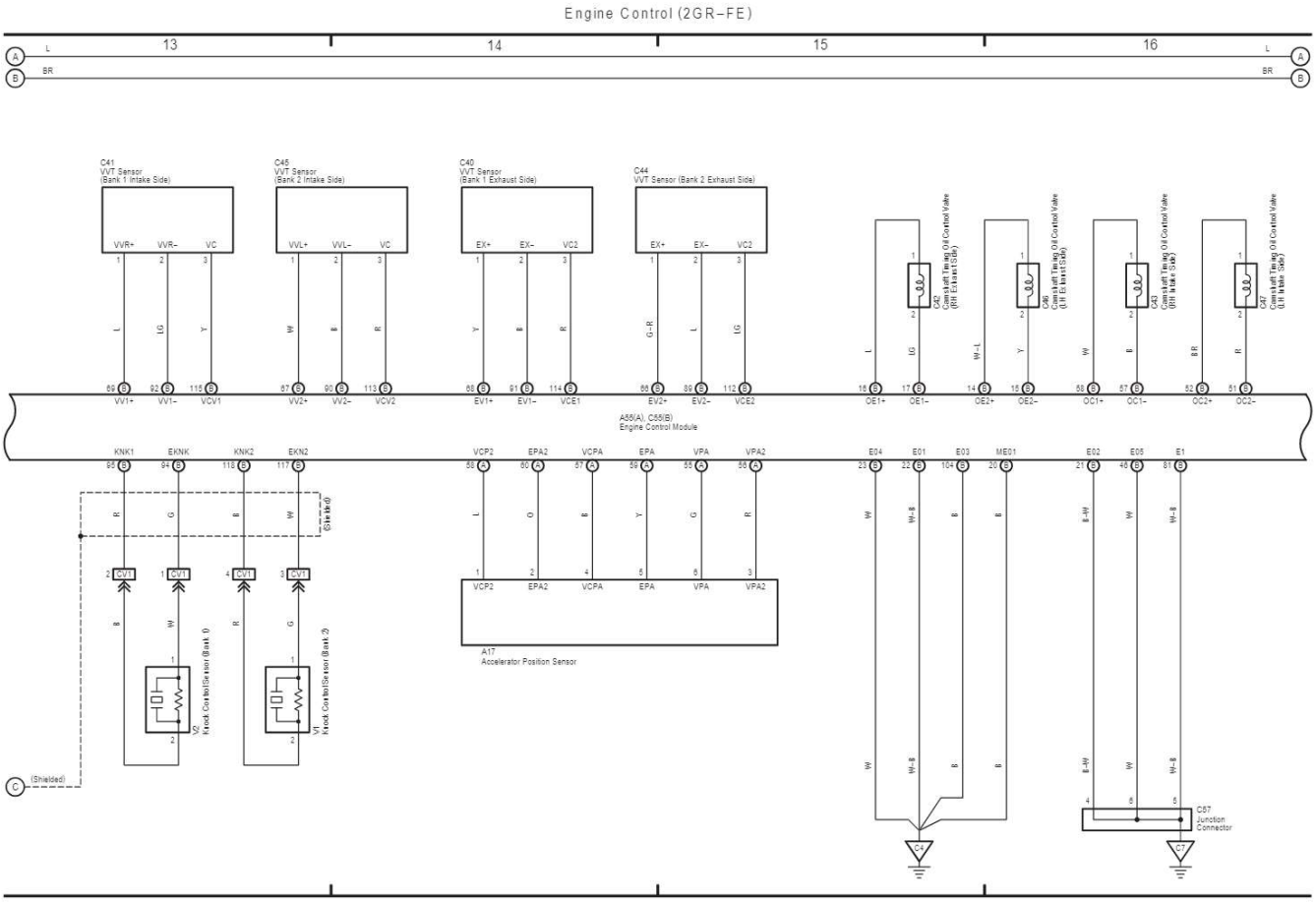
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Engine Control (2GR–FE)

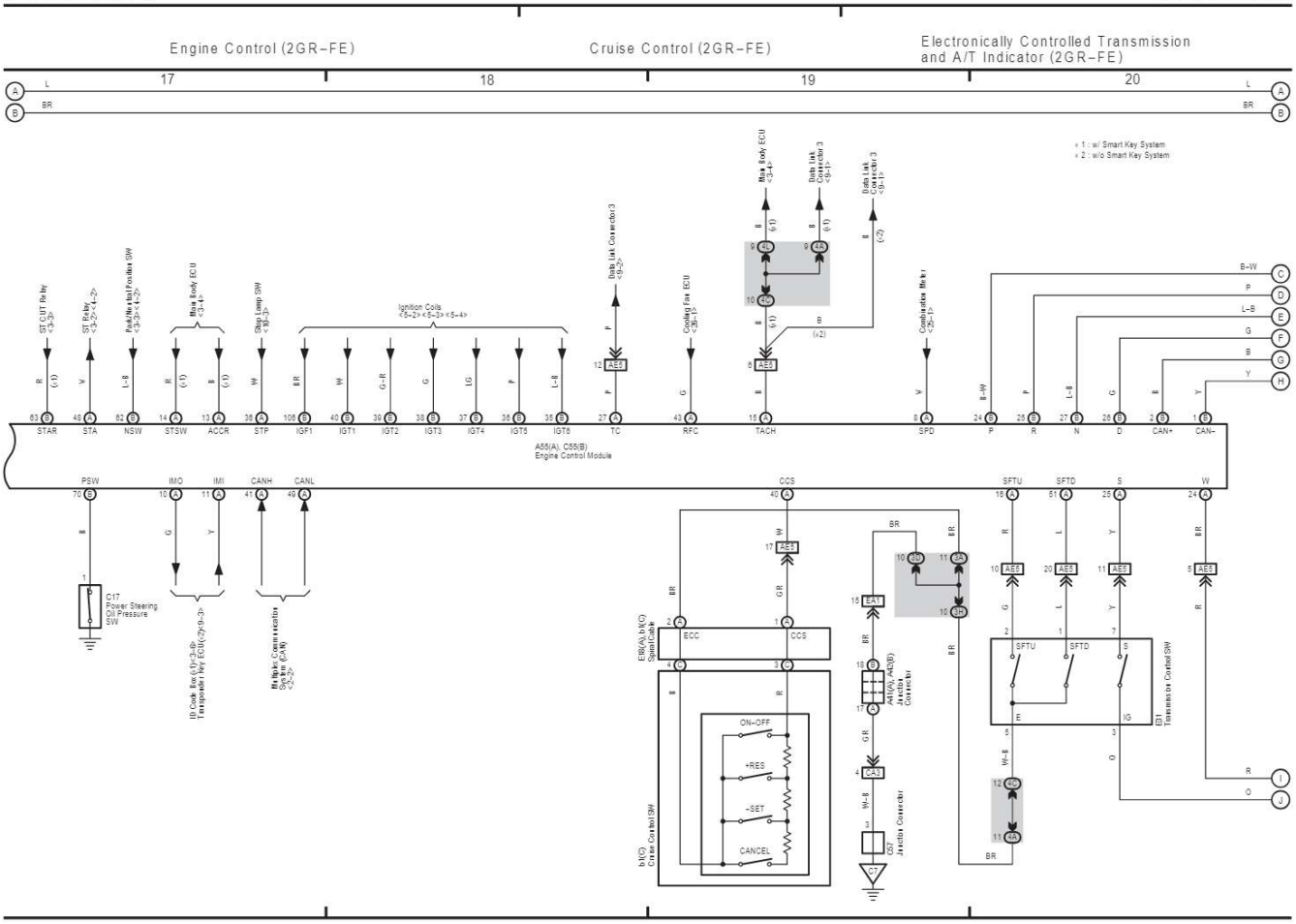



Engine Control (2GR–FE)
9
10
11
12
(BAT)
10A ETCS
(IG)
10A IGN
Stop Light Switch
Stop Light Relay
Stop Lamp SW
A/C Cut Control
A/C Idle-up Control
Engine Coolant Temp. Sensor
C5 Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
+BM
ST1–
IGSW
THW
ETHW
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A65(A), C55(B) Engine Control Module
ACIV
+B
+B2
MREL
NE+
NE–
OX2B
EX2B
HT2B
OX1B
HT1B
EX1B
A1A+
A1A–
HA1A
A2A+
A2A–
HA2A
Crankshaft Position Sensor
C51 Heated Oxygen Sensor (Bank 2 Sensor 2)
C52 Heated Oxygen Sensor (Bank 1 Sensor 2)
C16 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
C35 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
(Shielded)
C5


Engine Control (2GR-FE)
13
14
15
16
C41 VVT Sensor (Bank 1 Intake Side)
C45 VVT Sensor (Bank 2 Intake Side)
C40 VVT Sensor (Bank 1 Exhaust Side)
C44 VVT Sensor (Bank 2 Exhaust Side)
VVR+ VVR- VC
VVL+ VVL- VC
EX+ EX- VC2
EX+ EX- VC2
C42 Camshaft Timing Oil Control Valve (RH Exhaust Side)
C46 Camshaft Timing Oil Control Valve (LH Exhaust Side)
C43 Camshaft Timing Oil Control Valve (RH Intake Side)
C47 Camshaft Timing Oil Control Valve (LH Intake Side)
VV1+ VV1- VCV1
VV2+ VV2- VCV2
EV1+ EV1- VCE1
EV2+ EV2- VCE2
OE1+ OE1-
OE2+ OE2-
OC1+ OC1-
OC2+ OC2-
A55(A), C55(B) Engine Control Module
KNK1 EKNK KNK2 EKN2
VCP2 EPA2 VCPA EPA VPA VPA2
E04 E01 E03 ME01
E02 E05 E1
(Shielded)
CV1
Knock Control Sensor (Bank 1)
Knock Control Sensor (Bank 2)
A17 Accelerator Position Sensor
C57 Junction Connector
C4
C7

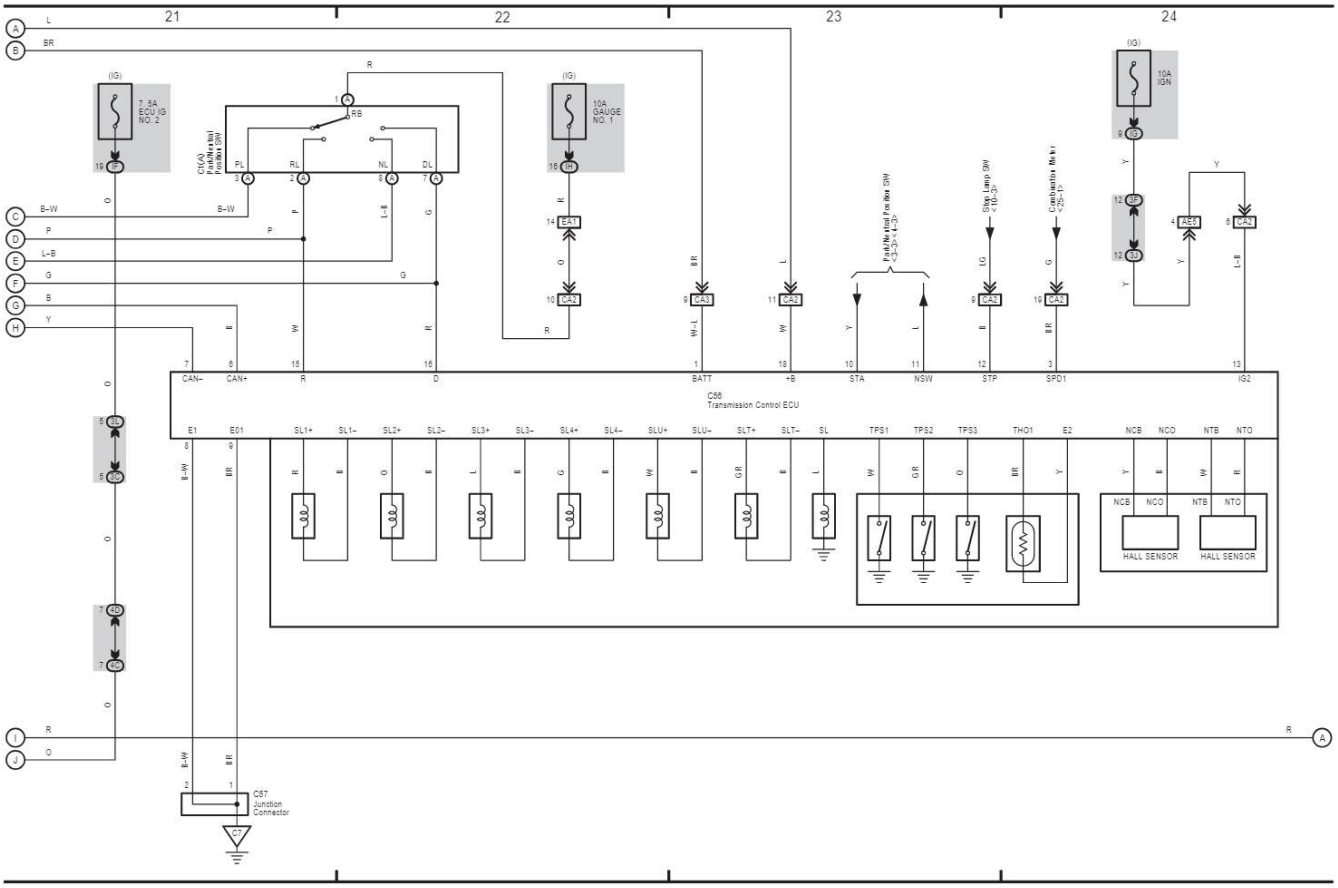
7 CAMRY (Cont' d)

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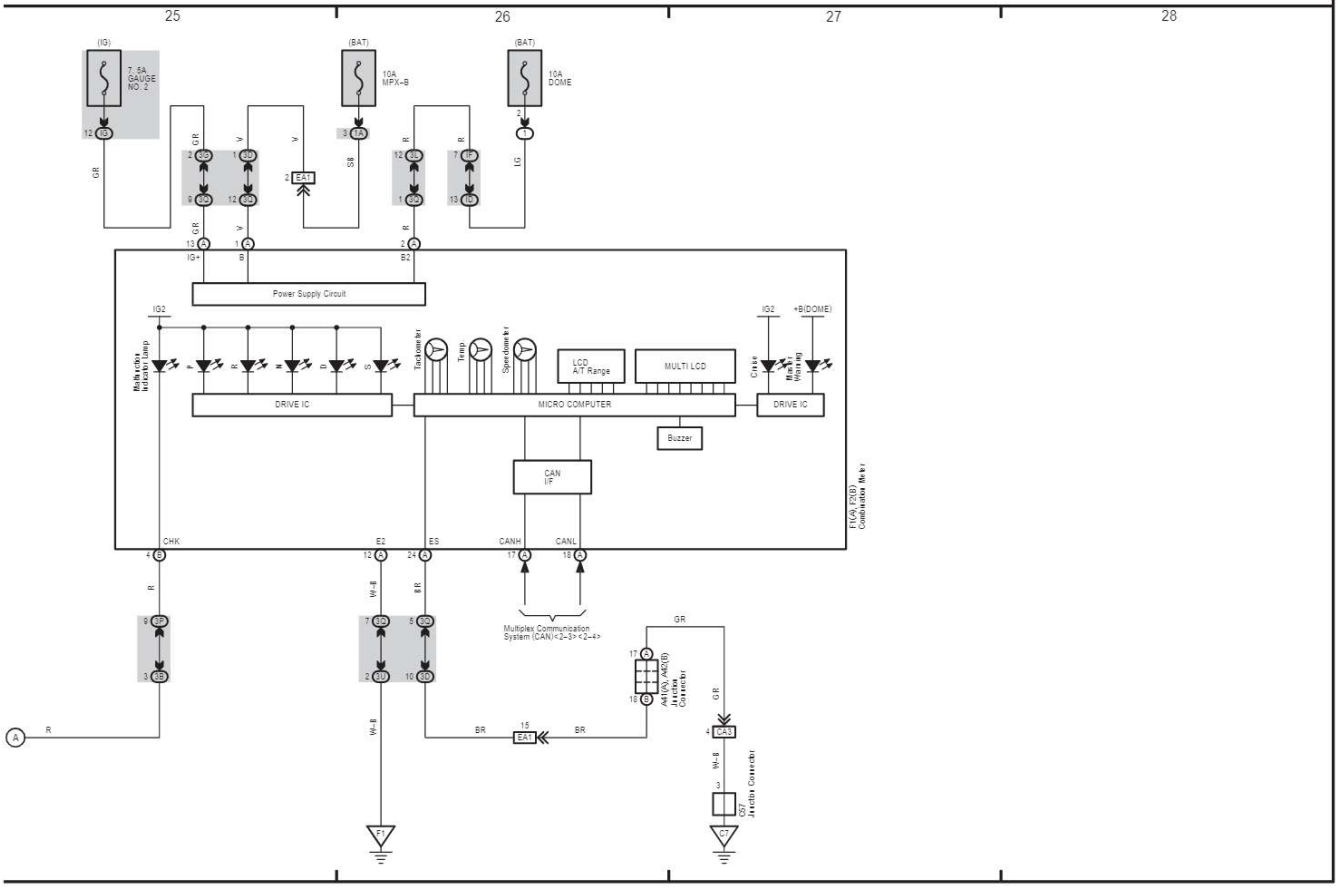
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Electronically Controlled Transmission and A/T Indicator (2GR–FE)



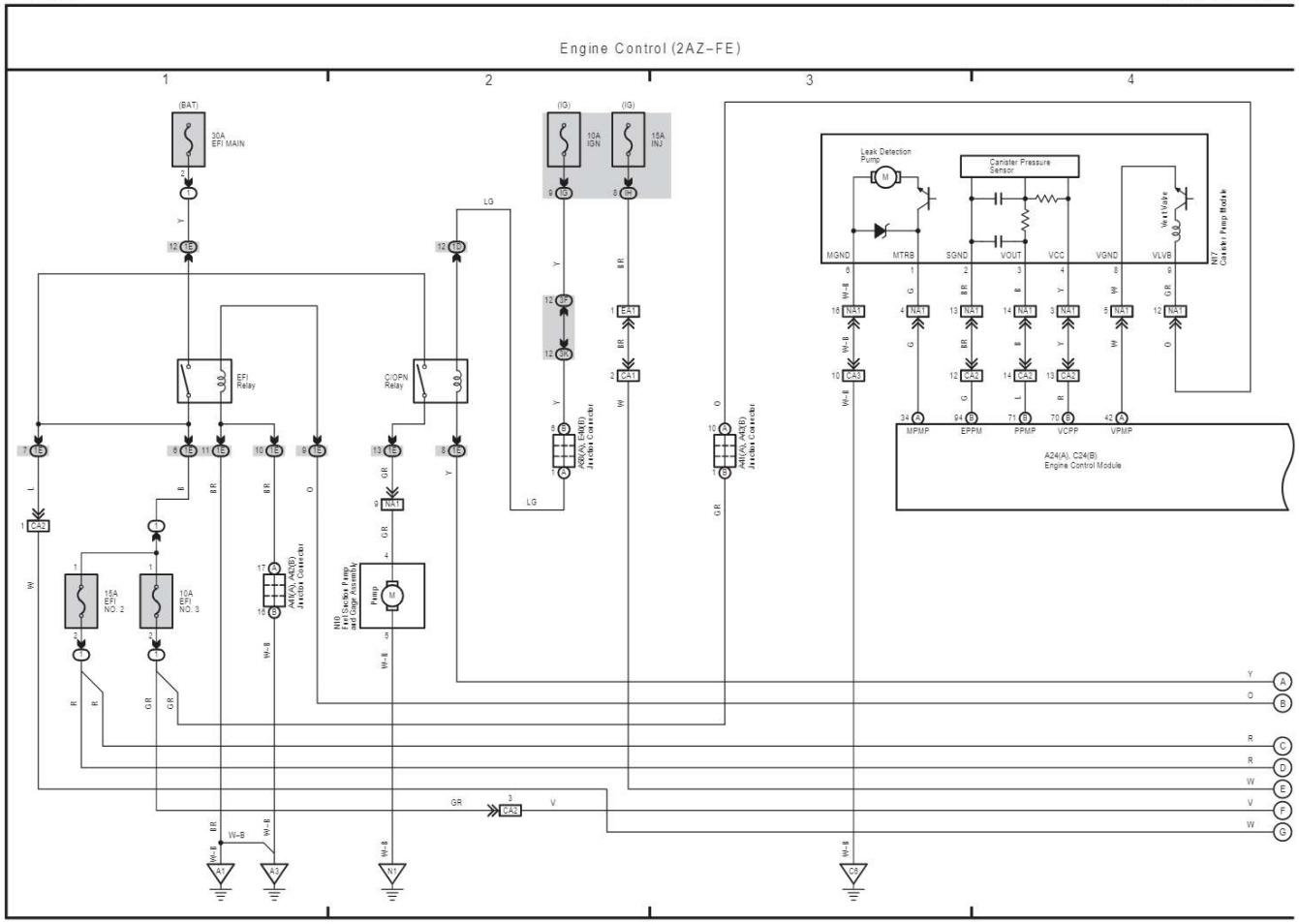
7 CAMRY (Cont' d)

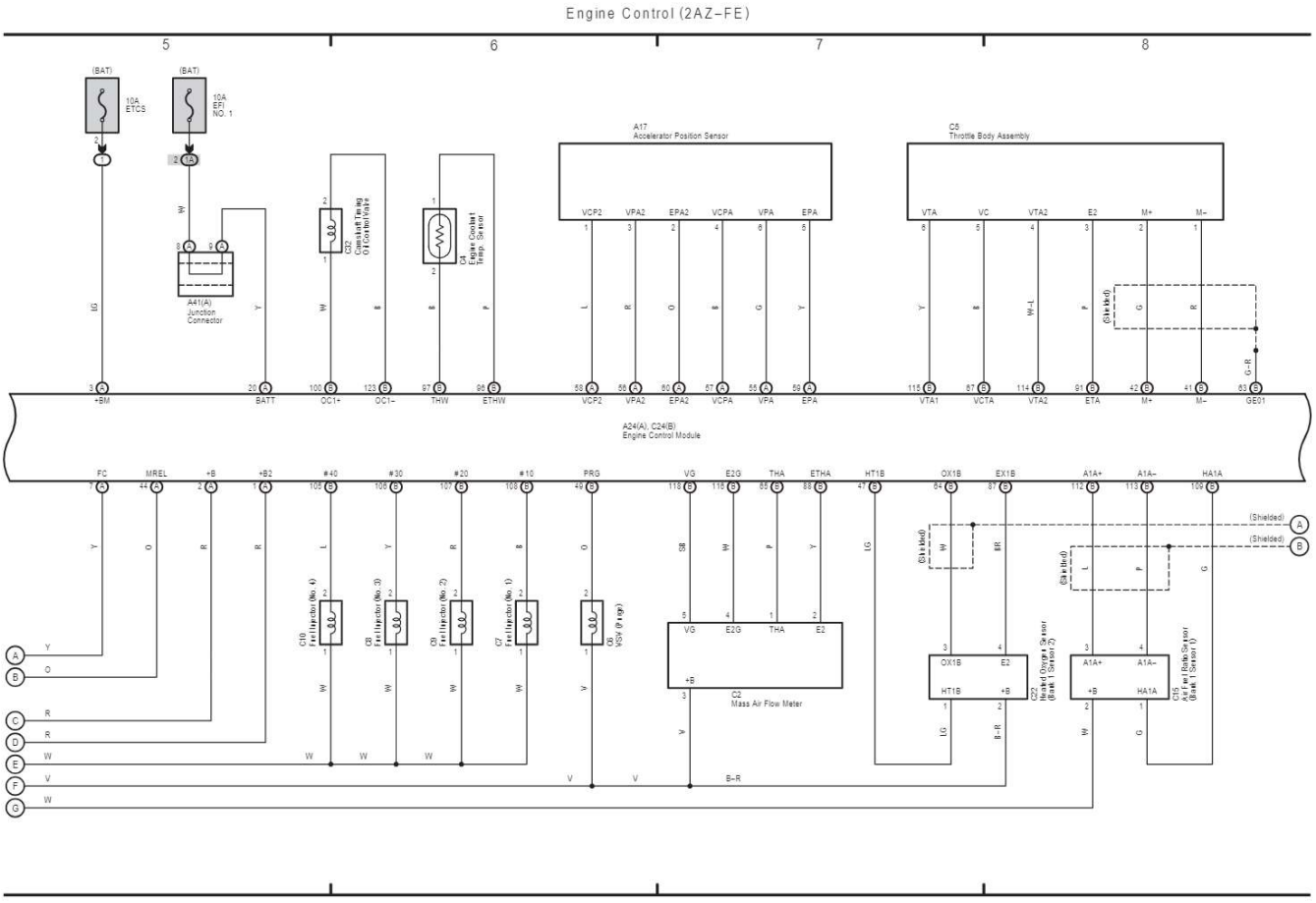
Electronically Controlled Transmission and A/T Indicator (2GR-FE)



8 CAMRY

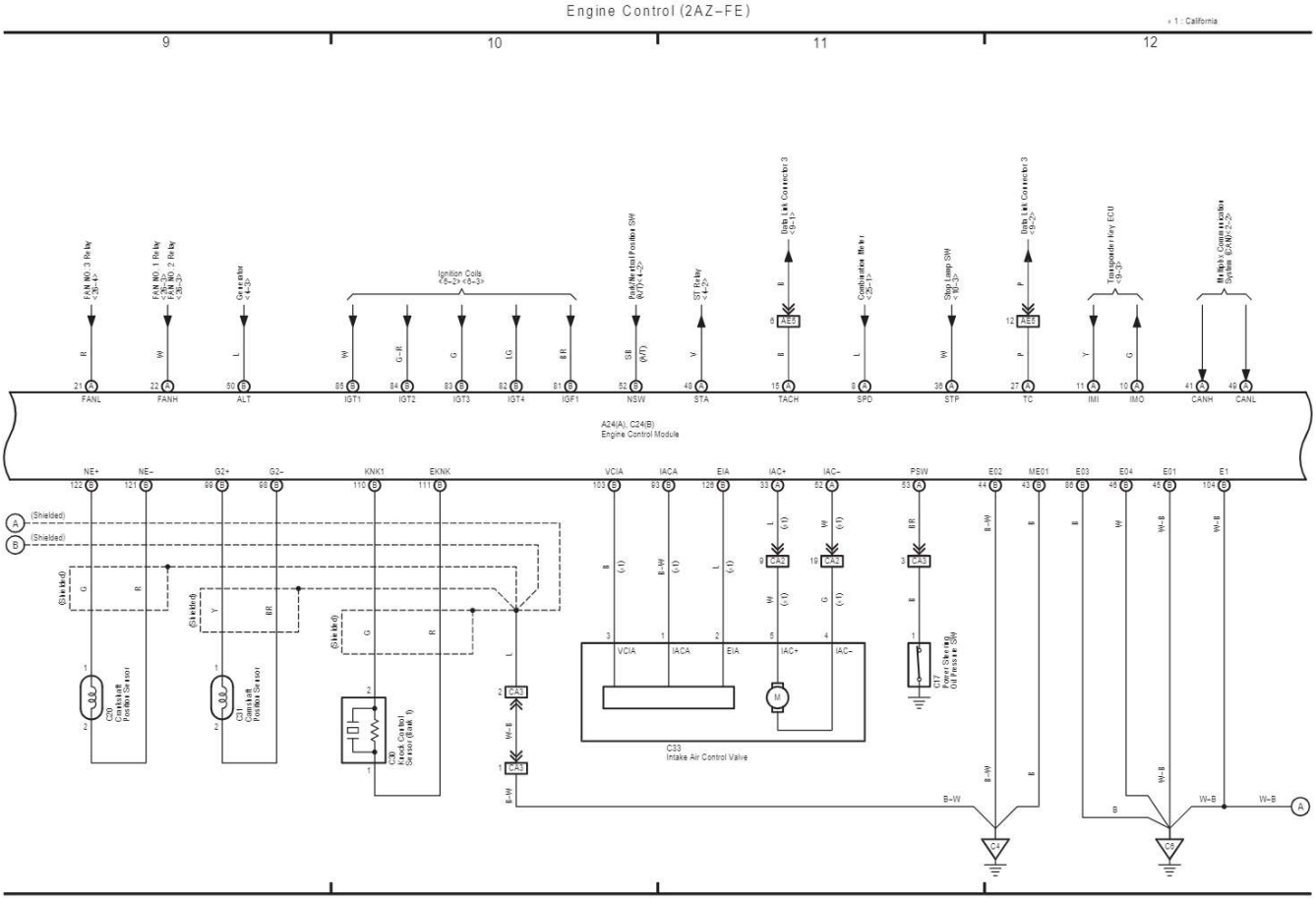
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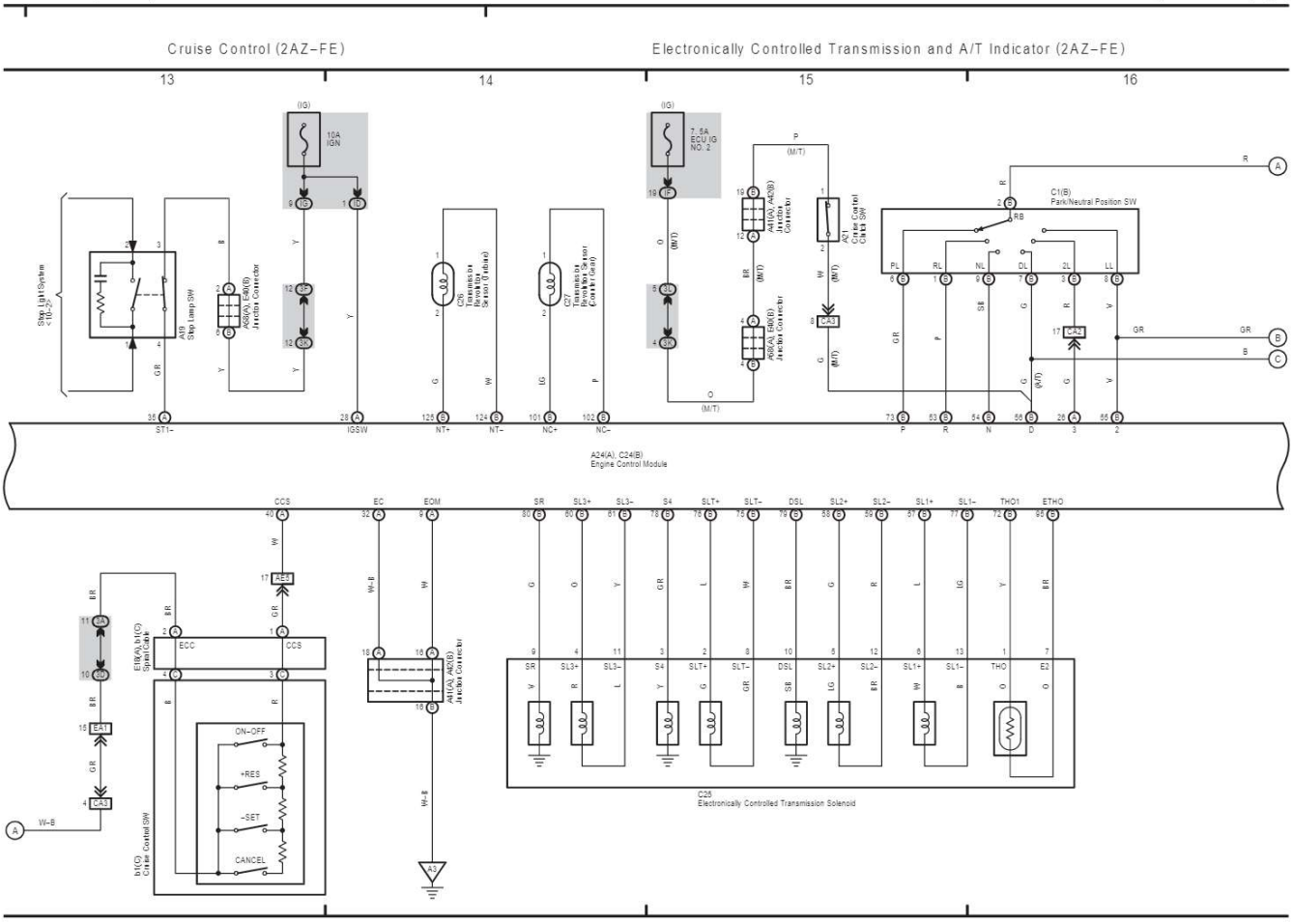



Engine Control (2AZ–FE)
5
6
7
8
(BAT)
10A ETCS
10A EFI NO. 1
A41(A) Junction Connector
C32 Camshaft Timing Oil Control Valve
G4 Engine Coolant Temp. Sensor
A17 Accelerator Position Sensor
C6 Throttle Body Assembly
A24(A), C24(B) Engine Control Module
C10 Fuel Injector (No. 4)
C8 Fuel Injector (No. 3)
C9 Fuel Injector (No. 2)
C7 Fuel Injector (No. 1)
G3 VSV (Purge)
C2 Mass Air Flow Meter
C22 Fuel Pump Speed (Fuel Sender 2)
C15 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
(Shielded)
+BM
BATT
OC1+
OC1–
THW
ETHW
VCP2
VPA2
EPA2
VCPA
VPA
EPA
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
FC
MREL
+B
+B2
#40
#30
#20
#10
PRG
VG
E2G
THA
ETHA
HT1B
OX1B
EX1B
A1A+
A1A–
HA1A
E2
VTA
VC
E2

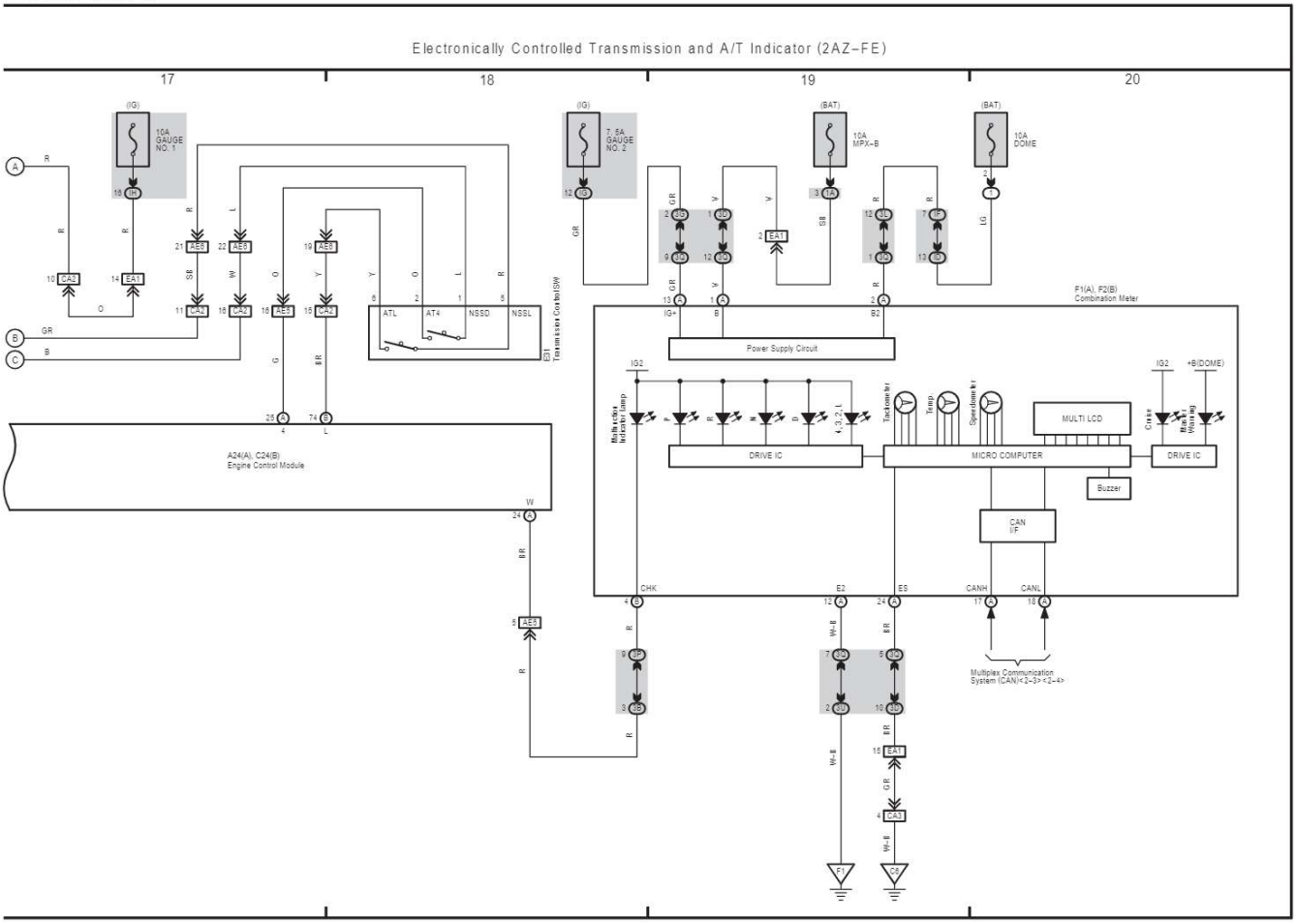
8 CAMRY (Cont' d)

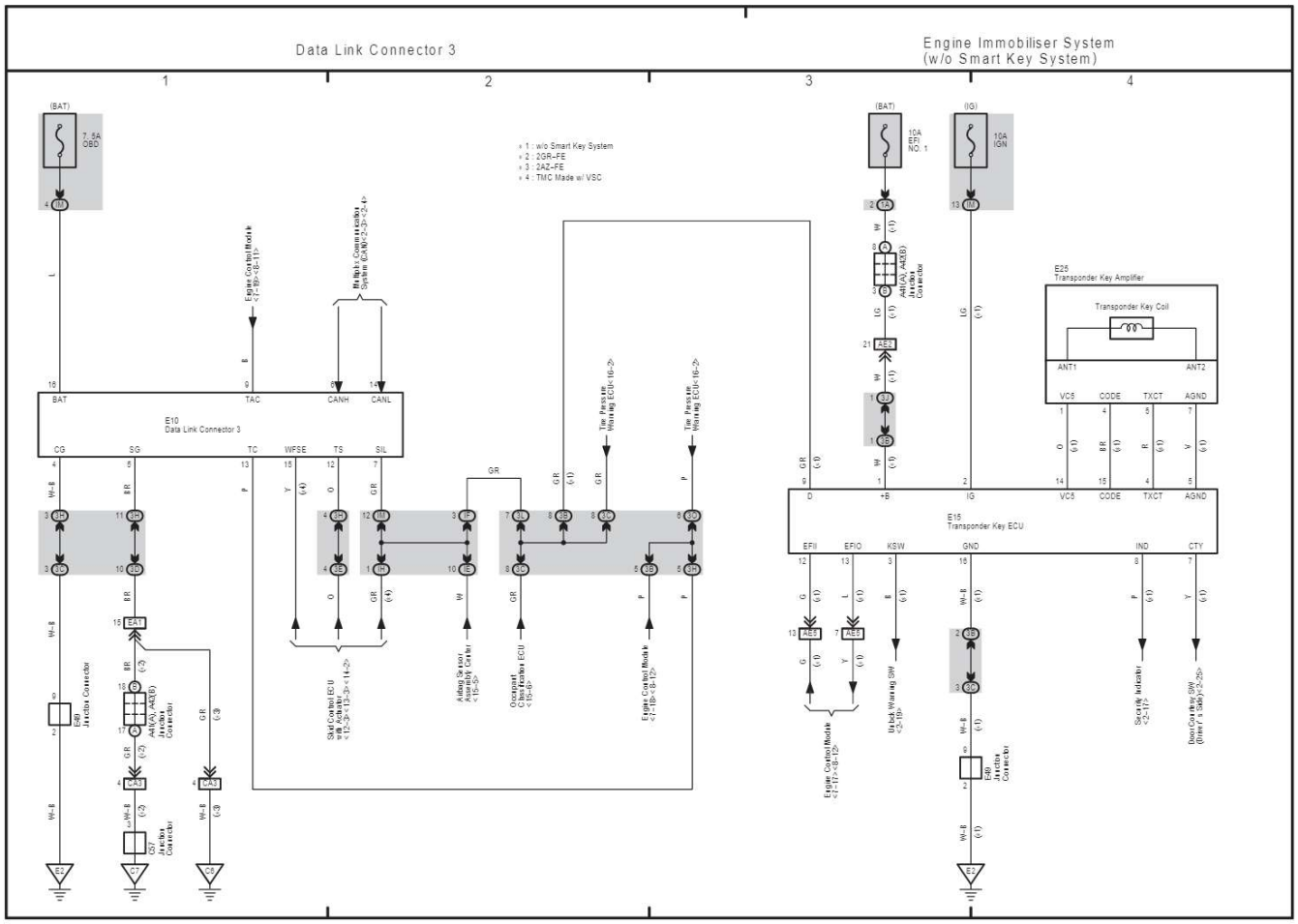
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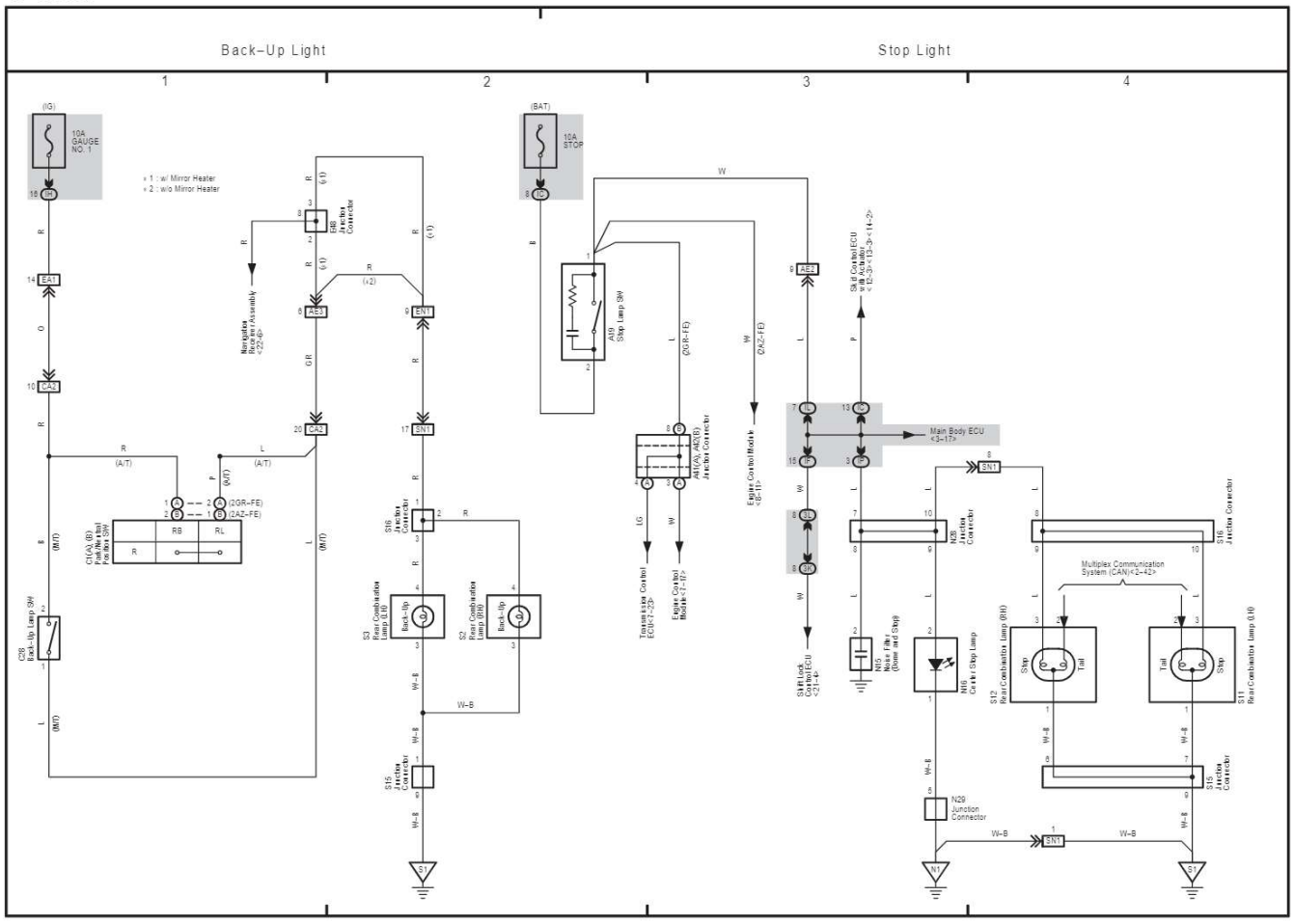

Cruise Control (2AZ–FE)
Electronically Controlled Transmission and A/T Indicator (2AZ–FE)
13
14
15
16
(IG)
10A IGN
7.5A ECU IG NO. 2
Stop Light System (See page)
A10 Stop Lamp SW
A59(C), E4(B) Junction Connector
C26 Transmission Revolution Sensor (Turbine)
C27 Transmission Revolution Sensor (Counter Gear)
A41(A), A6(B) Junction Connector
A59(A), E4(B) Junction Connector
A21 Cruise Control Clock SW
C1(B) Park/Neutral Position SW
ST1–
IGSW
NT+
NT–
NC+
NC–
P
R
N
D
A24(A), C24(B) Engine Control Module
CCS
EC
EOM
SR
SL3+
SL3–
S4
SLT+
SLT–
DSL
SL2+
SL2–
SL1+
SL1–
THO1
ETHO
E18(A), b1(C) Spiral Cable
ECC
CCS
A41(A), A6(B) Junction Connector
ON–OFF
+RES
–SET
CANCEL
b1(C) Cruise Control SW
W–B
C25 Electronically Controlled Transmission Solenoid
SR
SL3+
SL3–
S4
SLT+
SLT–
DSL
SL2+
SL2–
SL1+
SL1–
THO
E2

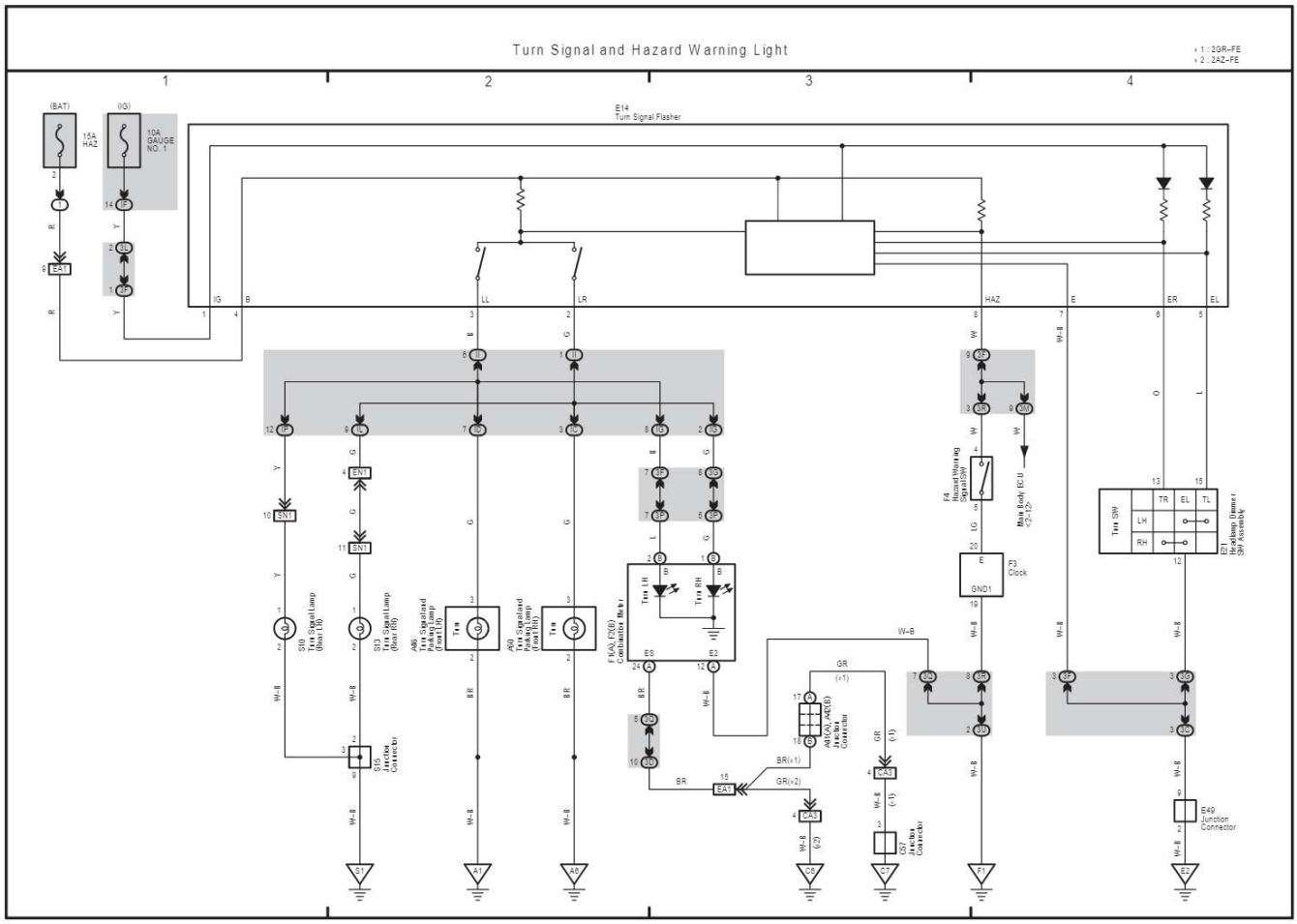
8 CAMRY (Cont' d)




Data Link Connector 3
Engine Immobiliser System
(w/o Smart Key System)
1
2
3
4
(BAT)
7.5A
OBD
10A
EFI
NO. 1
10A
IGN
(IG)
* 1 : w/o Smart Key System
* 2 : 2GR-FE
* 3 : 2AZ-FE
* 4 : TMC Made w/ VSC
E10
Data Link Connector 3
BAT
TAC
CANH
CANL
CG
SG
TC
WFSE
TS
SIL
E15
Transponder Key ECU
EFII
EFIO
KSW
GND
IND
CTY
E25
Transponder Key Amplifier
Transponder Key Coil
ANT1
ANT2
VC5
CODE
TXCT
AGND
Engine Control Module
<1-1B><3-12>
Multiplex Communication
System (CAN)<2-3><2-4>
Tire Pressure
Warning ECU<16-2>
Skid Control ECU
w/ A-Skid
w/o A-Skid
<2-3><14-2>
Airbag Sensor
Assembly Center
<15-5>
Occupant
Classification ECU
<15-6>
Engine Control Module
<1-1B><8-12>
Engine Control Module
<1-1B><8-12>
Unlock Warning SW
<3-19>
Security Indicator
<3-17>
Door Courtesy SW
(Driver's Side)<2-25>
Adj(A), A4(B)
Junction
Connector
EB
Junction
Connector
IG1
Junction
Connector
CST
Junction
Connector

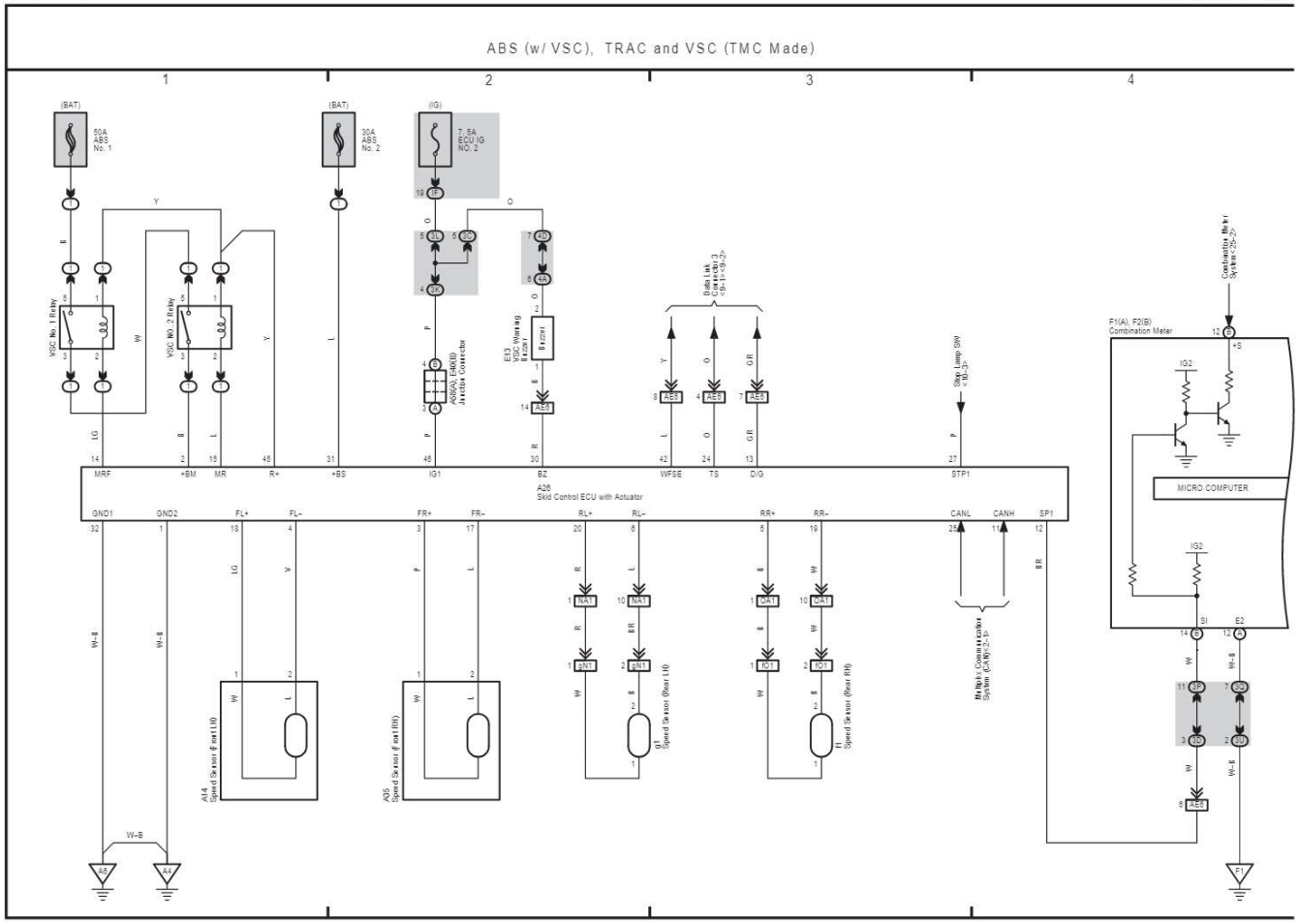
10 CAMRY

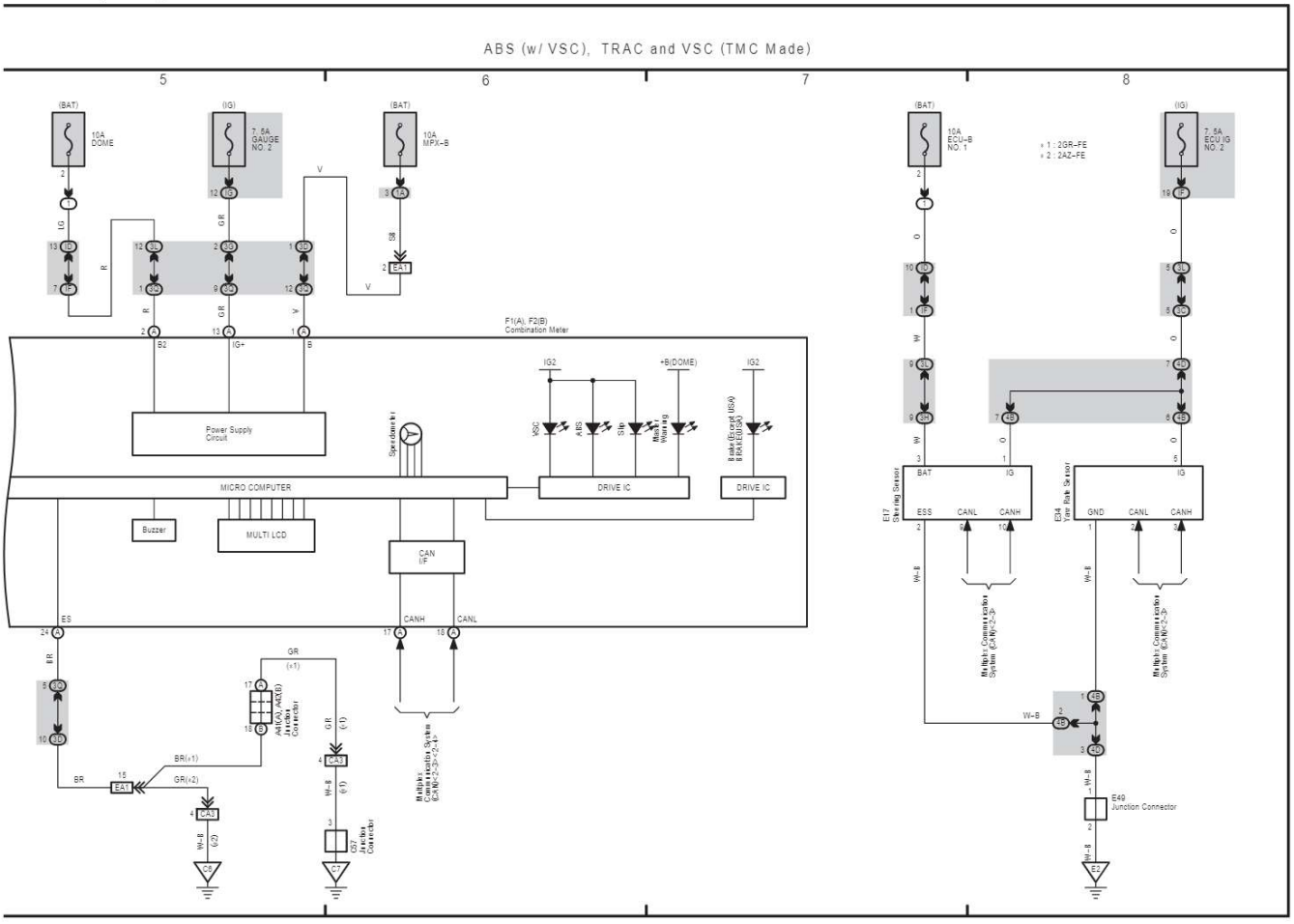

Back–Up Light
Stop Light
1
2
3
4
(IG)
10A GAUGE NO. 1
(BAT)
10A STOP
* 1 : w/ Mirror Heater
* 2 : w/o Mirror Heater
Navigation Receiver Assembly <22-6>
EB8 Junction Connector
Back-Up Lamp SW
C28
C1(A), (B) Park/Neutral Position SW
S3 Rear Combination Lamp (LH)
S2 Rear Combination Lamp (RH)
S16 Junction Connector
S15 Junction Connector
A19 Stop Lamp SW
A1(A), A2(B) Junction Connector
Transmission Control ECU <7-23>
Engine Control Module <7-17>
Skid Control ECU and Yaw Rate Sensor <13-3><13-9><14-2>
Main Body ECU <3-17>
N28 Junction Connector
N16 Center Stop Lamp
N15 Radio Filter (Rear and Stop)
Multiplex Communication System (CAN) <2-42>
S12 Rear Combination Lamp (RH)
S11 Rear Combination Lamp (LH)
N29 Junction Connector
Stop
Tail
W–B
R
L
B
O
G
P
LG
W
GR
(M/T)
(A/T)
(2GR–FE)
(2AZ–FE)
(1GR–FE)


Turn Signal and Hazard Warning Light
x 1 : 2GR-FE
x 2 : 2AZ-FE
1
2
3
4
(BAT)
(IG)
15A HAZ
10A GAUGE NO. 1
E14
Turn Signal Flasher
IG
B
LL
LR
HAZ
E
ER
EL
Turn LH
Turn RH
Turn SW
TR
EL
TL
LH
RH
GND1
Clock
Junction Connector
E49
Junction Connector

12 CAMRY

(Cont. next page)

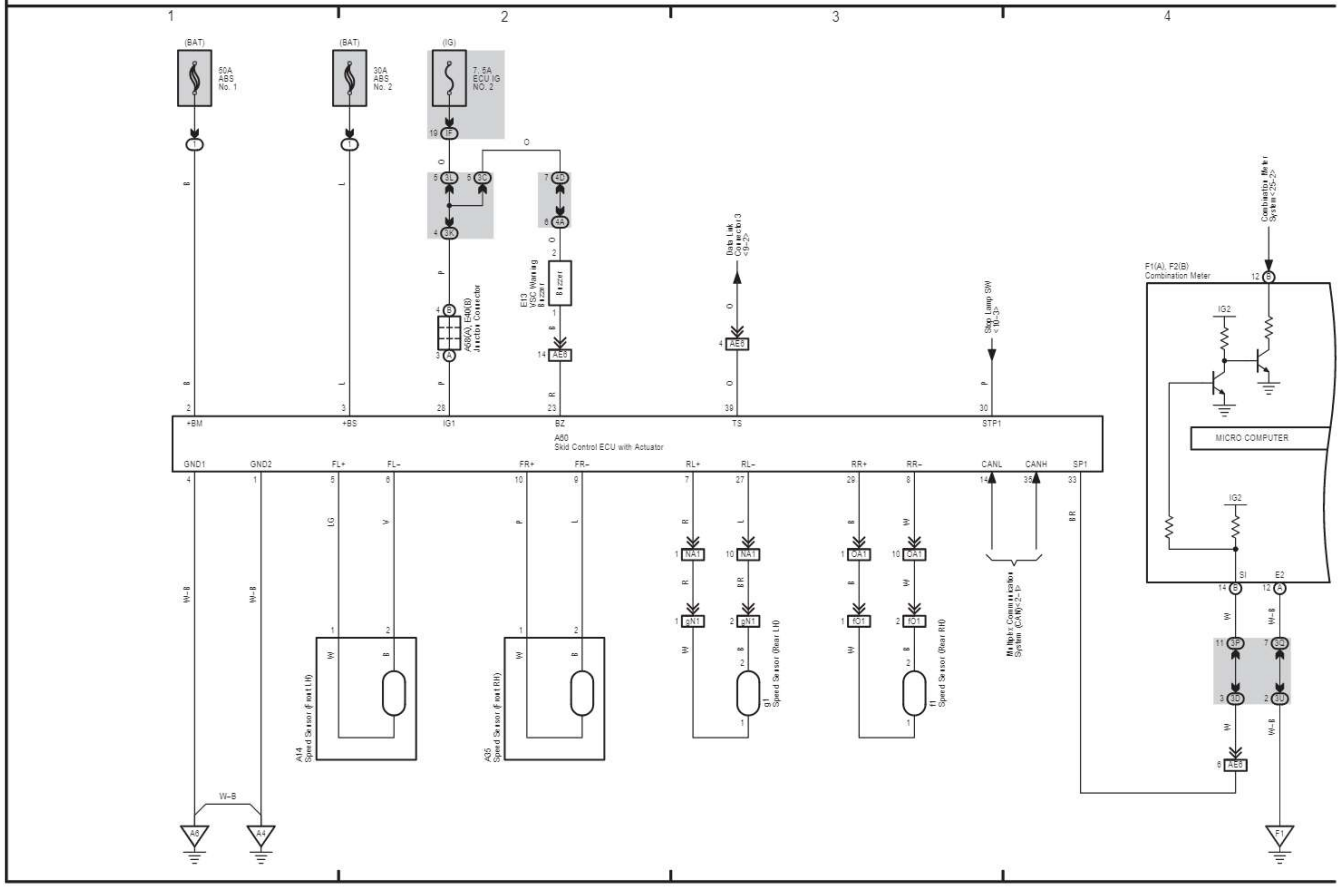


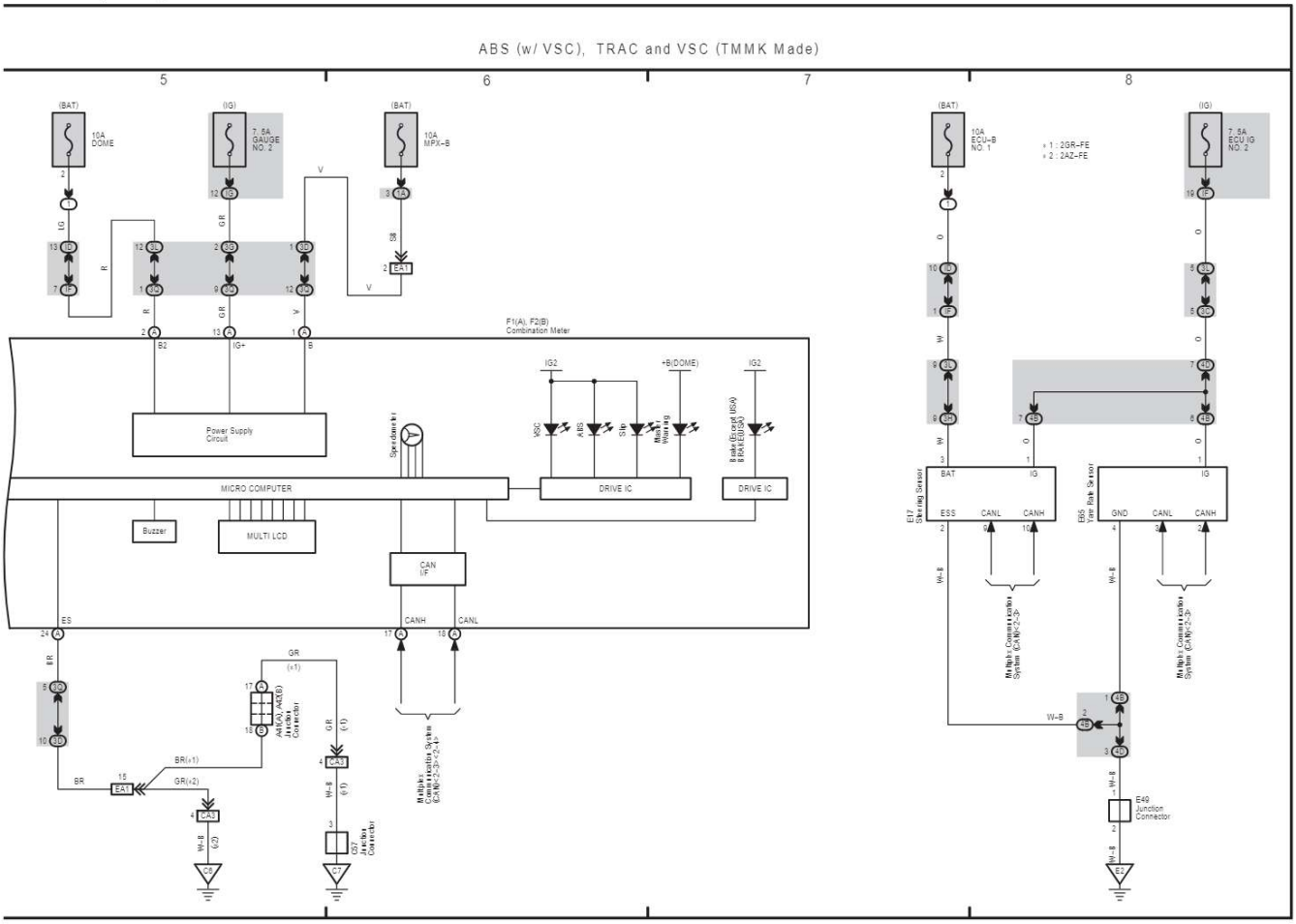

ABS (w/ VSC), TRAC and VSC (TMC Made)
5
6
7
8
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
F1(A), F2(B) Combination Meter
Power Supply Circuit
MICRO COMPUTER
Buzzer
MULTI LCD
Speedometer
CAN I/F
IG2
+B(DOME)
VSC
ABS
Slip
Brake Warning
Brake (Except US9) BRK (US9)
DRIVE IC
DRIVE IC
CANH
CANL
A40(A), A43(B) Junction Connector
Multiplex Communication System (CAN)
(BAT)
10A ECU-B NO. 1
(IG)
7.5A ECU-IG NO. 2
* 1 : 2GR-FE
* 2 : 2AZ-FE
E17 Steering Sensor
BAT
IG
ESS
CANL
CANH
E34 Yaw Rate Sensor
GND
CANL
CANH
E49 Junction Connector

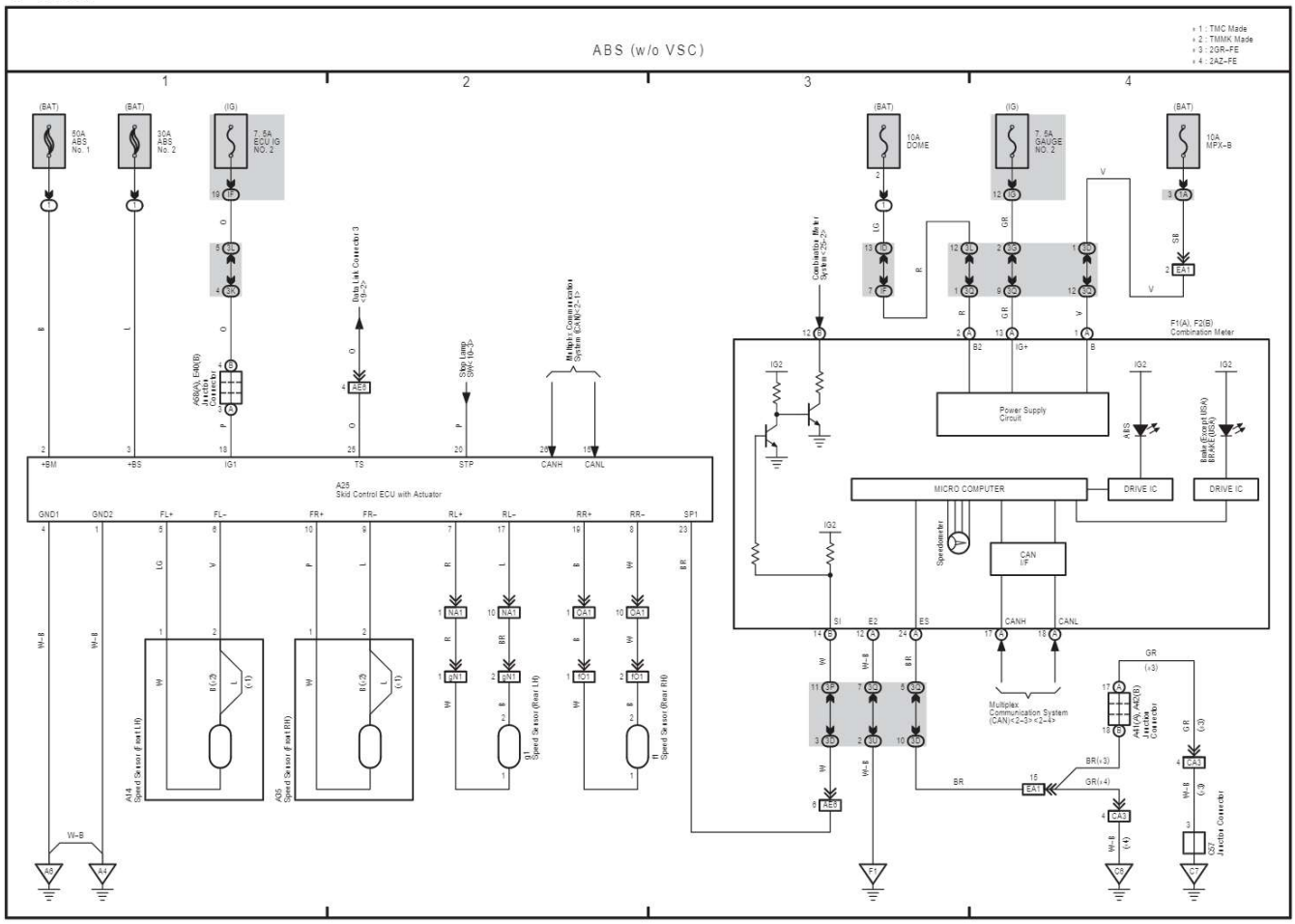
13 CAMRY

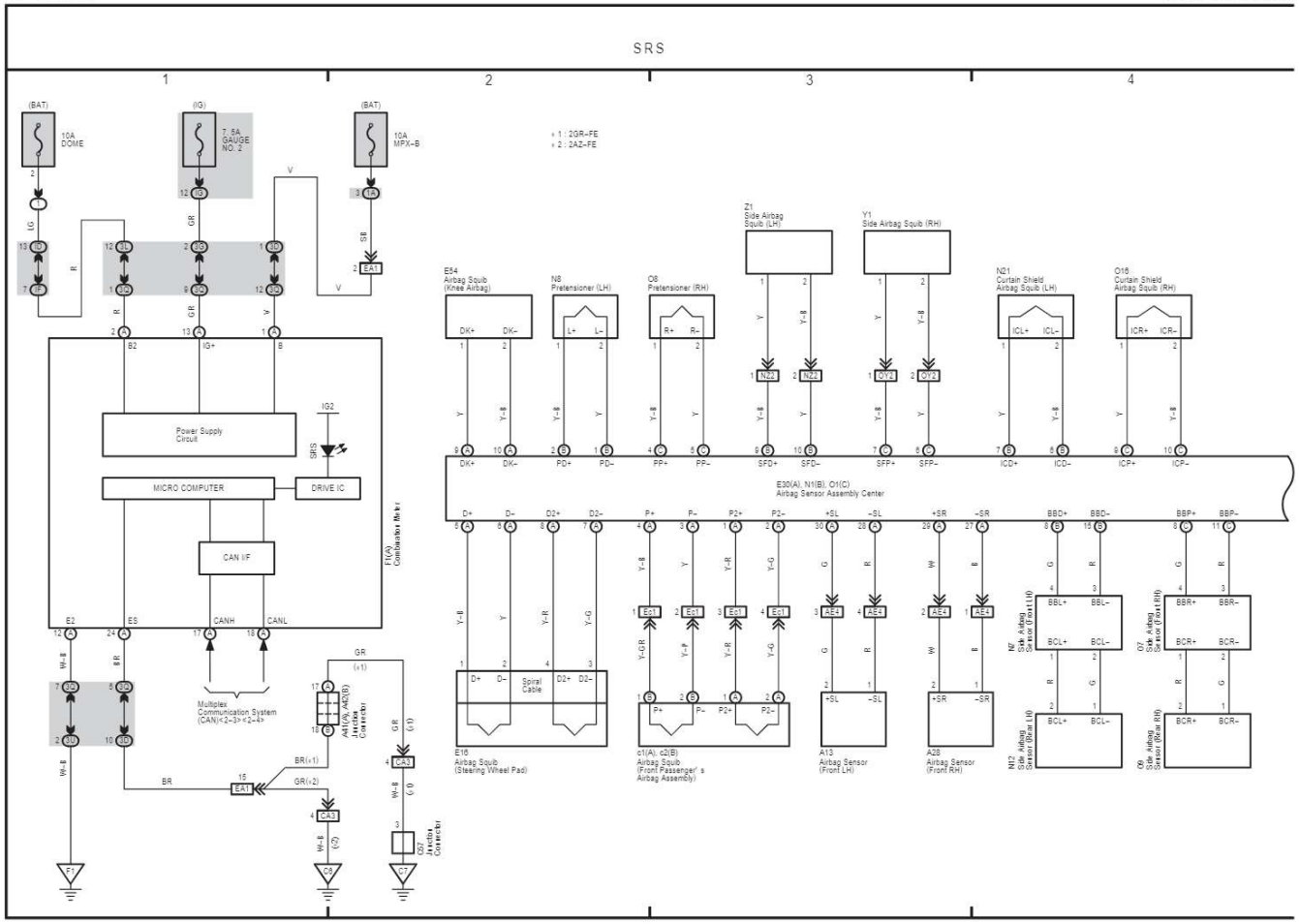
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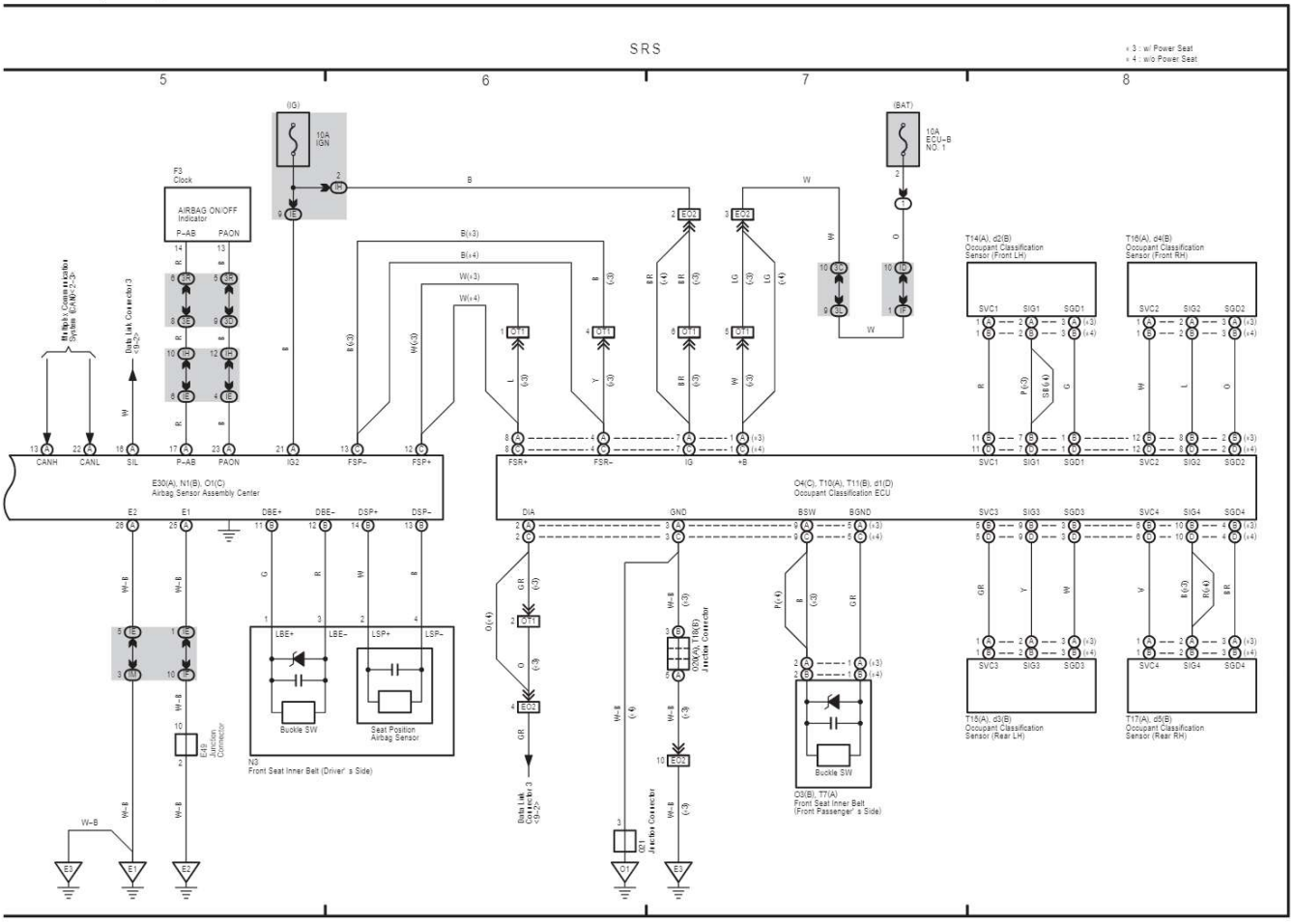
ABS (w/ VSC), TRAC and VSC (TMMK Made)



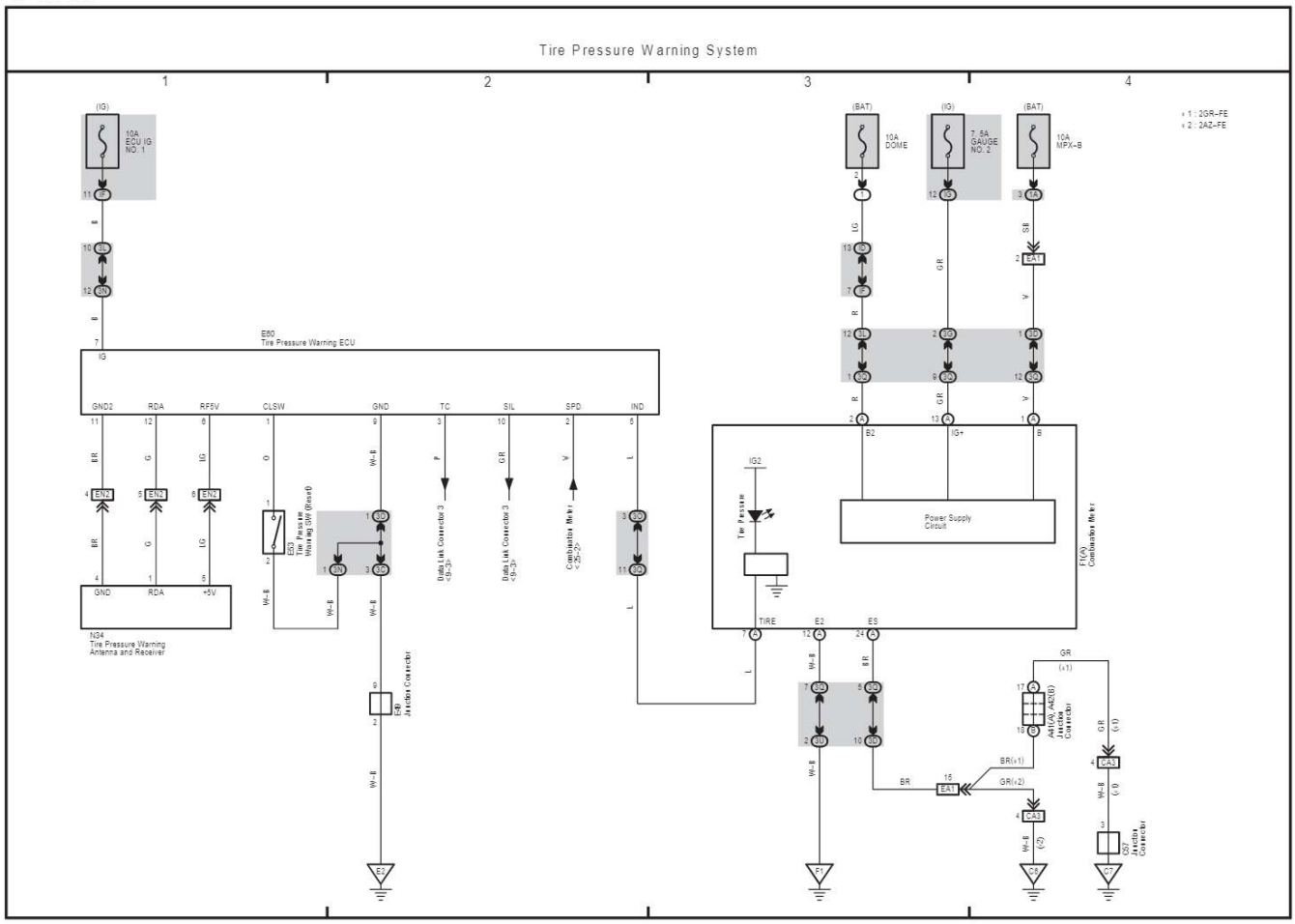

ABS (w/ VSC), TRAC and VSC (TMMK Made)
5
6
7
8
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
F1(A), F2(B) Combination Meter
Power Supply Circuit
MICRO COMPUTER
Buzzer
MULTI LCD
Speedometer
CAN I/F
DRIVE IC
DRIVE IC
IG2
+B(DOME)
IG2
VSC
ABS
Slip
Malfunction Warning
Brake (Except USA) BRAKE (USA)
CANH
CANL
BR(x1)
GR(x2)
GR (x1)
A40(A), A43(B) Junction Connector
Multiplex Communication System (CAN)
(BAT)
10A ECU-B NO. 1
(IG)
7.5A ECU-IG NO. 2
x 1 : 2GR-FE
x 2 : 2AZ-FE
E17 Steering Sensor
BAT
IG
ESS
CANL
CANH
E15 Yaw Rate Sensor
GND
CANL
CANH
Multiplex Communication System (CAN)
W-B
E49 Junction Connector

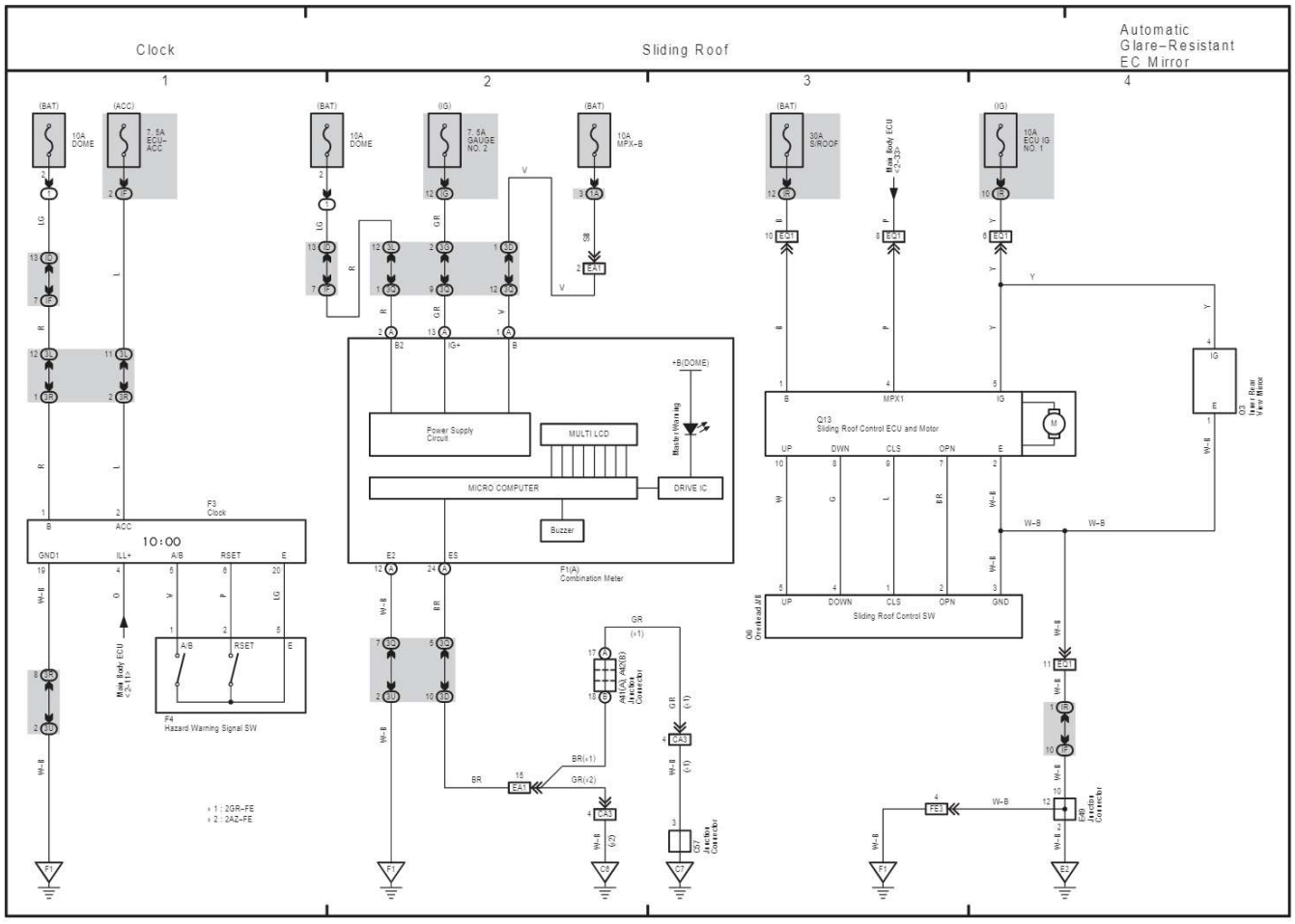

ABS (w/o VSC)
* 1 : TMC Made
* 2 : TMMK Made
* 3 : 2GR-FE
* 4 : 2AZ-FE
1
2
3
4
(BAT)
50A ABS No. 1
30A ABS No. 2
(IG)
7.5A ECU IG NO. 2
10A DOME
7.5A GAUGE NO. 2
10A MPX-B
Combination Meter System (See page 25-2)
F1(A), F2(B) Combination Meter
Power Supply Circuit
MICRO COMPUTER
DRIVE IC
ABS
Brake (Except USA) BRAKE (USA)
Speedometer
CAN I/F
Multiplex Communication System (CAN) (See page 2-3, 2-4)
A26(A), E40(B) Junction Connector
Data Link Connector 3 (See page 9-2)
Stop Light SW (See page 5-2)
A25 Skid Control ECU with Actuator
+BM
+BS
IG1
TS
STP
CANH
CANL
GND1
GND2
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
SP1
A14 Speed Sensor (Front LH)
A35 Speed Sensor (Front RH)
Speed Sensor (Rear LH)
Speed Sensor (Rear RH)
A44
A45
F1
C6
C7
A41(A), A42(B) Junction Connector
C57 Junction Connector
W-B

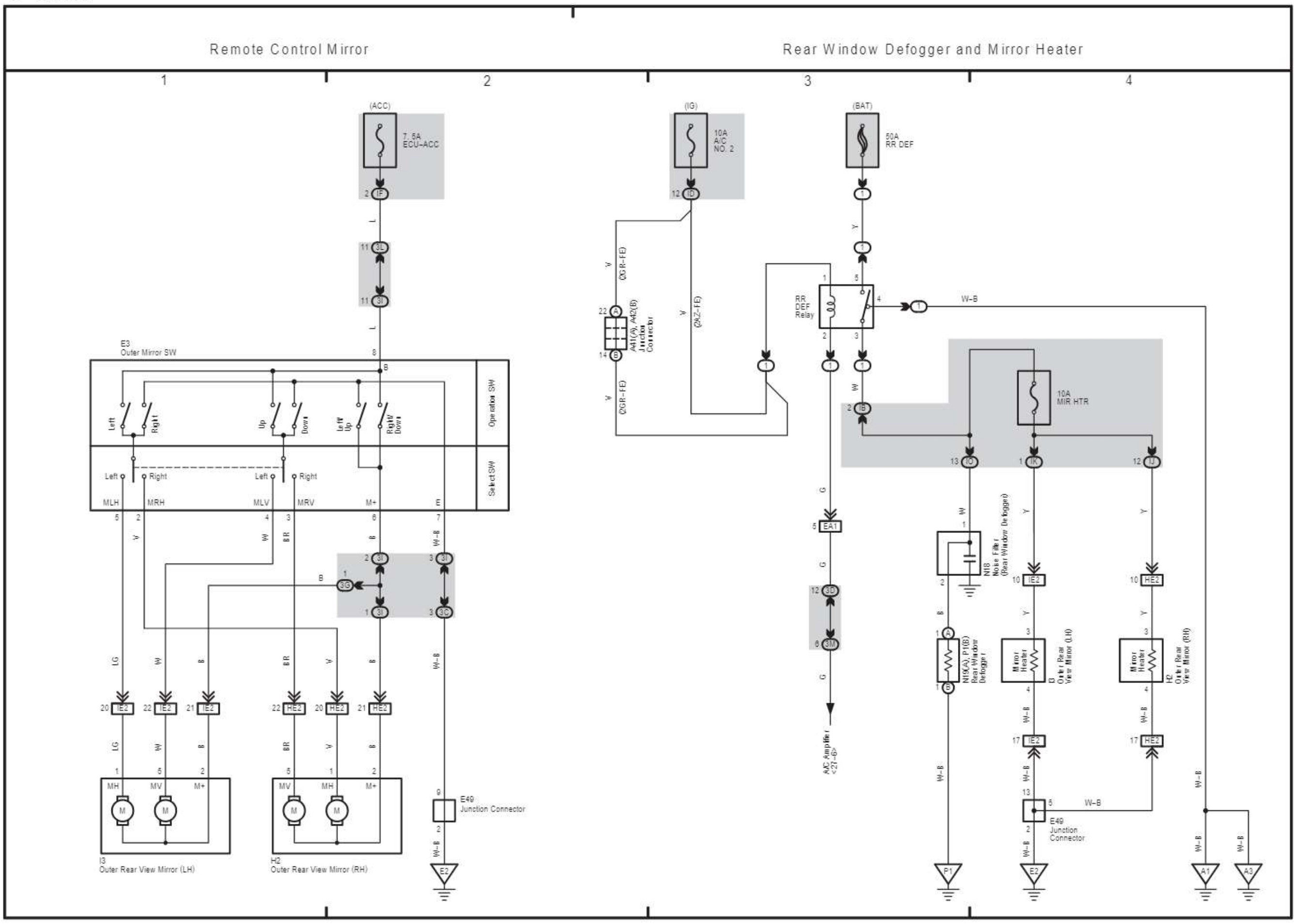

SRS
1
2
3
4
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
* 1 : 2GR-FE
* 2 : 2AZ-FE
Power Supply Circuit
MICRO COMPUTER
DRIVE IC
CAN I/F
IG2
SRS
F1(A) Combination Meter
Multiplex Communication System (CAN)
A41(A), A42(B) Junction Connector
J2 Junction Connector
F1
D4
C7
E54 Airbag Squib (Knee Airbag)
N8 Pretensioner (LH)
O8 Pretensioner (RH)
Z1 Side Airbag Squib (LH)
Y1 Side Airbag Squib (RH)
N21 Curtain Shield Airbag Squib (LH)
O16 Curtain Shield Airbag Squib (RH)
E30(A), N1(B), O1(C) Airbag Sensor Assembly Center
E16 Airbag Squib (Steering Wheel Pad)
Spiral Cable
c1(A), c2(B) Airbag Squib (Front Passenger' s Airbag Assembly)
A13 Airbag Sensor (Front LH)
A28 Airbag Sensor (Front RH)
N7 Side Airbag Sensor (Front LH)
O7 Side Airbag Sensor (Front RH)
N12 Side Airbag Sensor (Rear LH)
O9 Side Airbag Sensor (Rear RH)

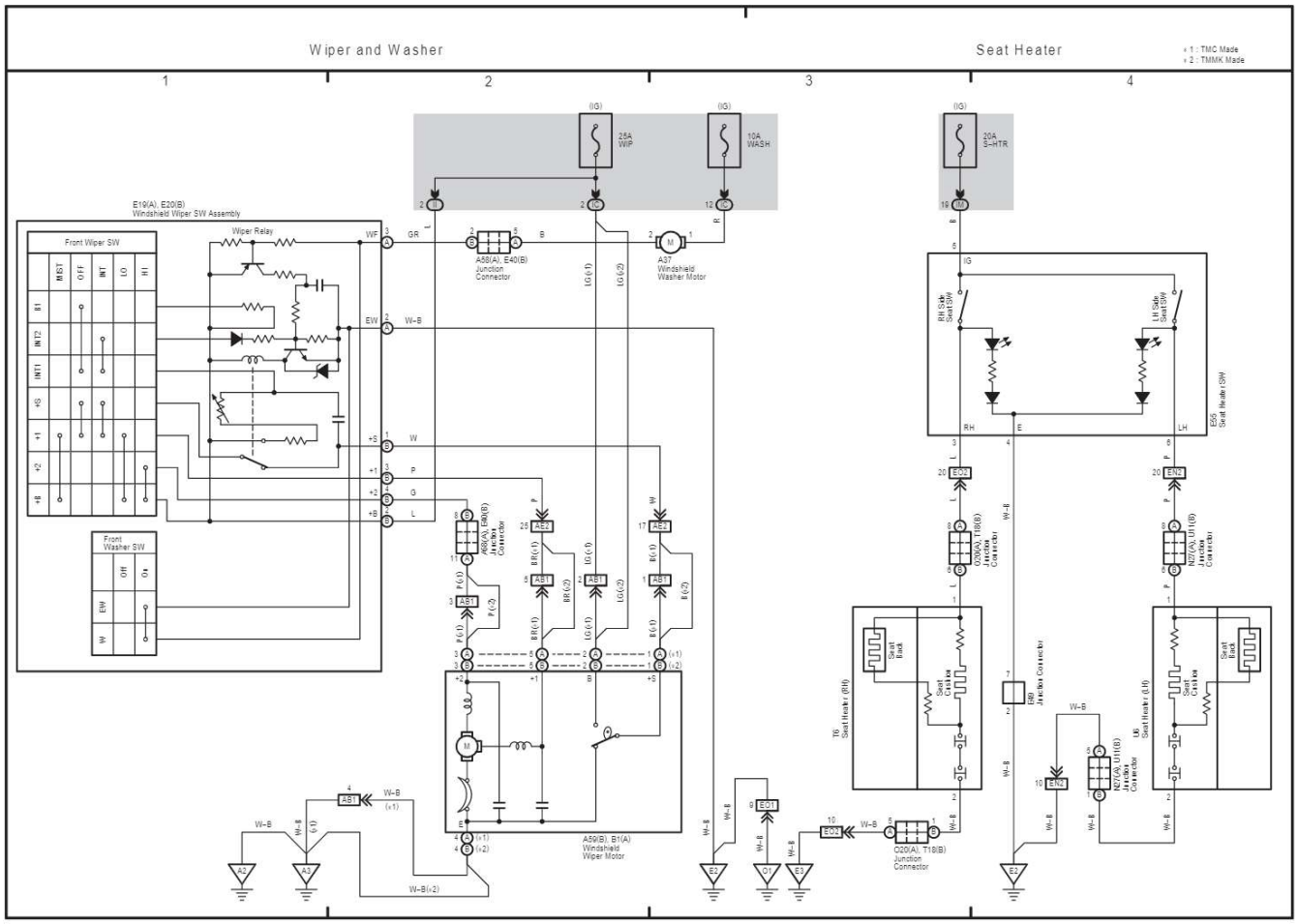

SRS
* 3 : w/ Power Seat
* 4 : w/o Power Seat
5
6
7
8
(IG)
10A IGN
(BAT)
10A ECU-B NO. 1
F3 Clock
AIRBAG ON/OFF Indicator
P-AB
PAON
Multiplex Communication System (CAN) <3-2>
Data Link Connector 3 <3-2>
CANH
CANL
SIL
IG2
FSP-
FSP+
FSR+
FSR-
IG
+B
E30(A), N1(B), O1(C) Airbag Sensor Assembly Center
O4(C), T10(A), T11(B), d1(D) Occupant Classification ECU
DIA
GND
BSW
BGND
DBE+
DBE-
DSP+
DSP-
LBE+
LBE-
LSP+
LSP-
Buckle SW
Seat Position Airbag Sensor
N3 Front Seat Inner Belt (Driver' s Side)
E48 Junction Connector
O3(A), T8(B) Junction Connector
O3(B), T7(A) Front Seat Inner Belt (Front Passenger' s Side)
D21 Junction Connector
T14(A), d2(B) Occupant Classification Sensor (Front LH)
T16(A), d4(B) Occupant Classification Sensor (Front RH)
T15(A), d3(B) Occupant Classification Sensor (Rear LH)
T17(A), d5(B) Occupant Classification Sensor (Rear RH)
SVC1
SIG1
SGD1
SVC2
SIG2
SGD2
SVC3
SIG3
SGD3
SVC4
SIG4
SGD4

16 CAMRY

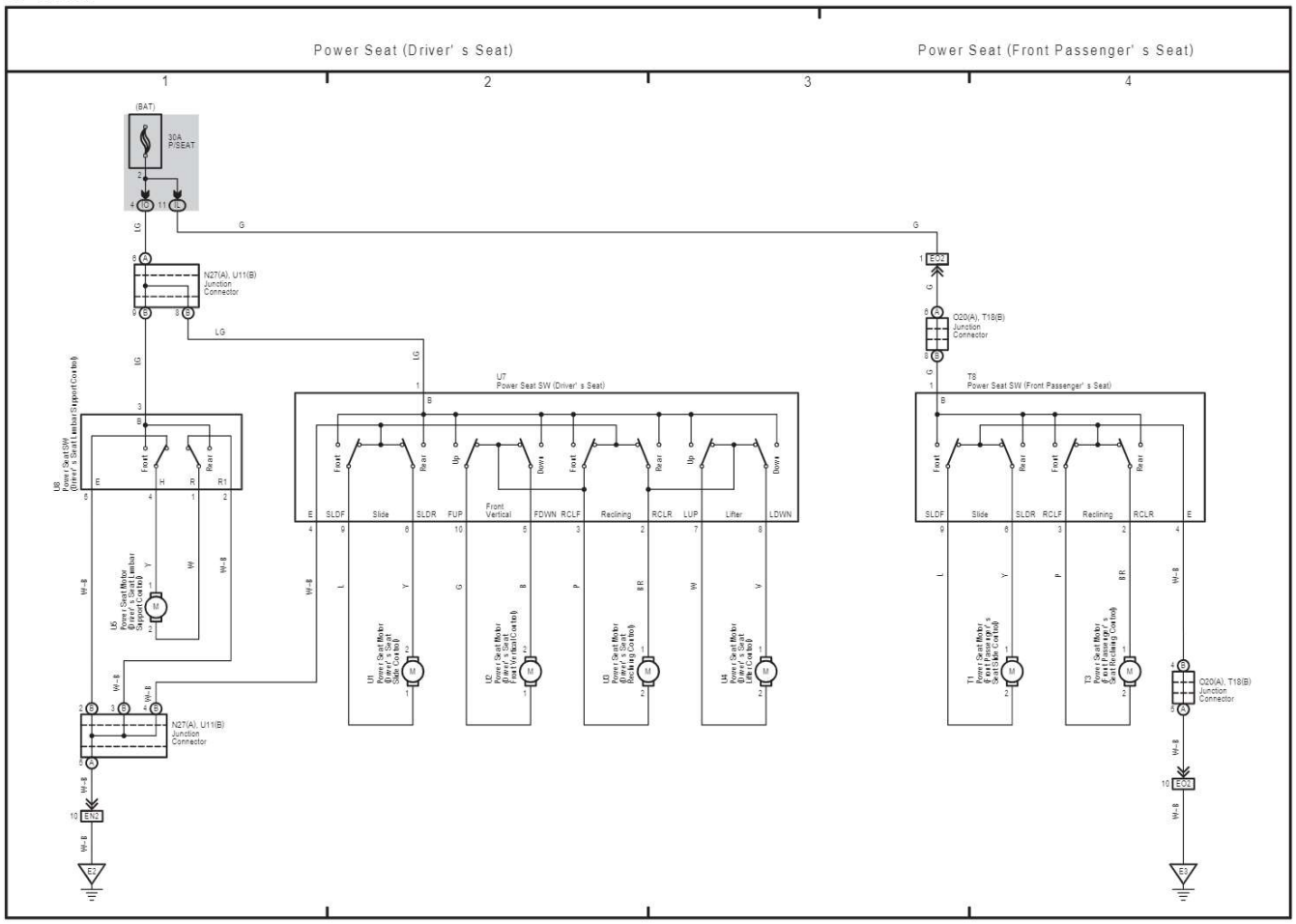

Tire Pressure Warning System
1
2
3
4
* 1 : 2GR-FE
* 2 : 2AZ-FE
(IG)
10A ECU IG NO. 1
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
E60
Tire Pressure Warning ECU
GND2
RDA
RFSV
CLSW
GND
TC
SIL
SPD
IND
E53
Tire Pressure Warning Switch (Reset)
Data Link Connector 3 <B-3>
Combination Meter <C5-2>
E8
Junction Connector
N24
Tire Pressure Warning Antenna and Receiver
GND
RDA
+5V
IG2
Tire Pressure
Power Supply Circuit
B2
IG+
B
TIRE
E2
ES
F(A)
Combination Meter
GR (*1)
BR (*1)
GR (*2)
BR
A41(A), A42(B)
Junction Connector
E7
Junction Connector
E2
F1
C4
C7

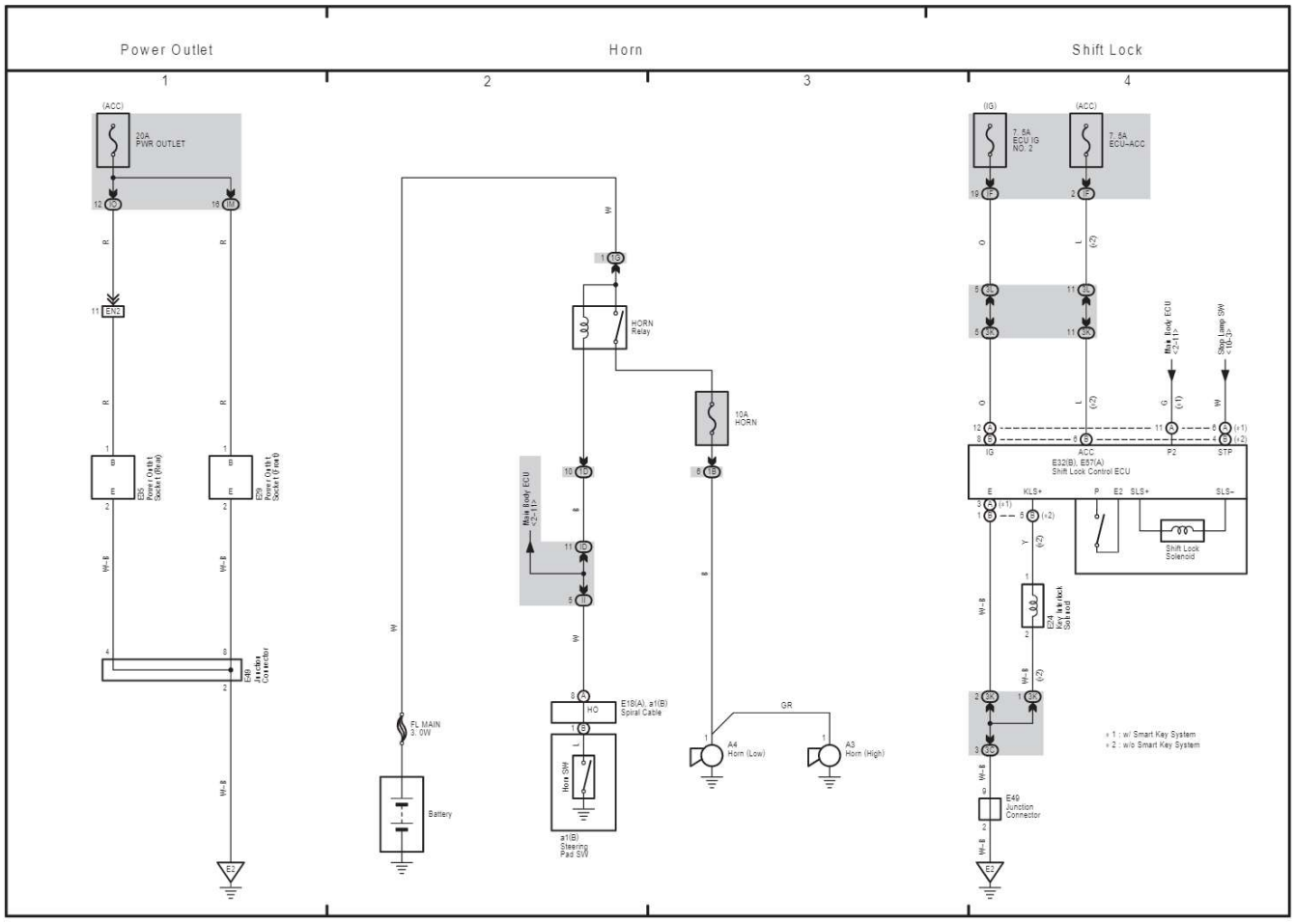

Clock
Sliding Roof
Automatic Glare–Resistant EC Mirror
1
2
3
4
(BAT)
(ACC)
(IG)
10A DOME
7.5A ECU–ACC
7.5A GAUGE NO. 2
10A MPX–B
30A S/ROOF
10A ECU IG NO. 1
Main Body ECU <2.3L>
F3 Clock
10:00
F4 Hazard Warning Signal SW
Power Supply Circuit
MULTI LCD
MICRO COMPUTER
DRIVE IC
Buzzer
Brake Warning
+B(DOME)
F1(A) Combination Meter
Q13 Sliding Roof Control ECU and Motor
Sliding Roof Control SW
Overhead J/B
Door Rear View Mirror
Main Body ECU <2.3L>
A41(A), A63(B) Junction Connector
D3 Junction Connector
F53 Junction Connector
* 1 : 2GR–FE
* 2 : 2AZ–FE


Remote Control Mirror
Rear Window Defogger and Mirror Heater
1
2
3
4
(ACC)
7. 5A ECU-ACC
(IG)
10A A/C NO. 2
(BAT)
50A RR DEF
E3 Outer Mirror SW
Operation SW
Select SW
Left
Right
Up
Down
Left/Up
Right/Down
MLH
MRH
MLV
MRV
M+
E
A41(A), A42(B) Junction Connector
(2GR-FE)
(2AZ-FE)
RR DEF Relay
10A MIR HTR
N18 Noise Filter (Rear Window Defogger)
N19(A), P1(B) Rear Window Defogger
Mirror Heater
I3 Outer Rear View Mirror (LH)
H2 Outer Rear View Mirror (RH)
E49 Junction Connector
A/C Amplifier <27-6>
I3 Outer Rear View Mirror (LH)
H2 Outer Rear View Mirror (RH)
W-B
E2
P1
A1
A3


Wiper and Washer
Seat Heater
* 1 : TMC Made
* 2 : TMMK Made
1
2
3
4
(IG)
25A WIP
10A WASH
20A S-HTR
E19(A), E20(B) Windshield Wiper SW Assembly
Front Wiper SW
MIST
OFF
INT
LO
HI
INT1
INT2
Wiper Relay
Front Washer SW
A58(A), E40(B) Junction Connector
A37 Windshield Washer Motor
A59(B), B1(A) Windshield Wiper Motor
RH Side Seat SW
LH Side Seat SW
E55 Seat Heater SW
O20(A), T18(B) Junction Connector
N21(A), U11(B) Junction Connector
T6 Seat Heater (RH)
U6 Seat Heater (LH)
I9B I/P Junction Connector
O20(A), T18(B) Junction Connector
Seat Back
Seat Cushion

20 CAMRY

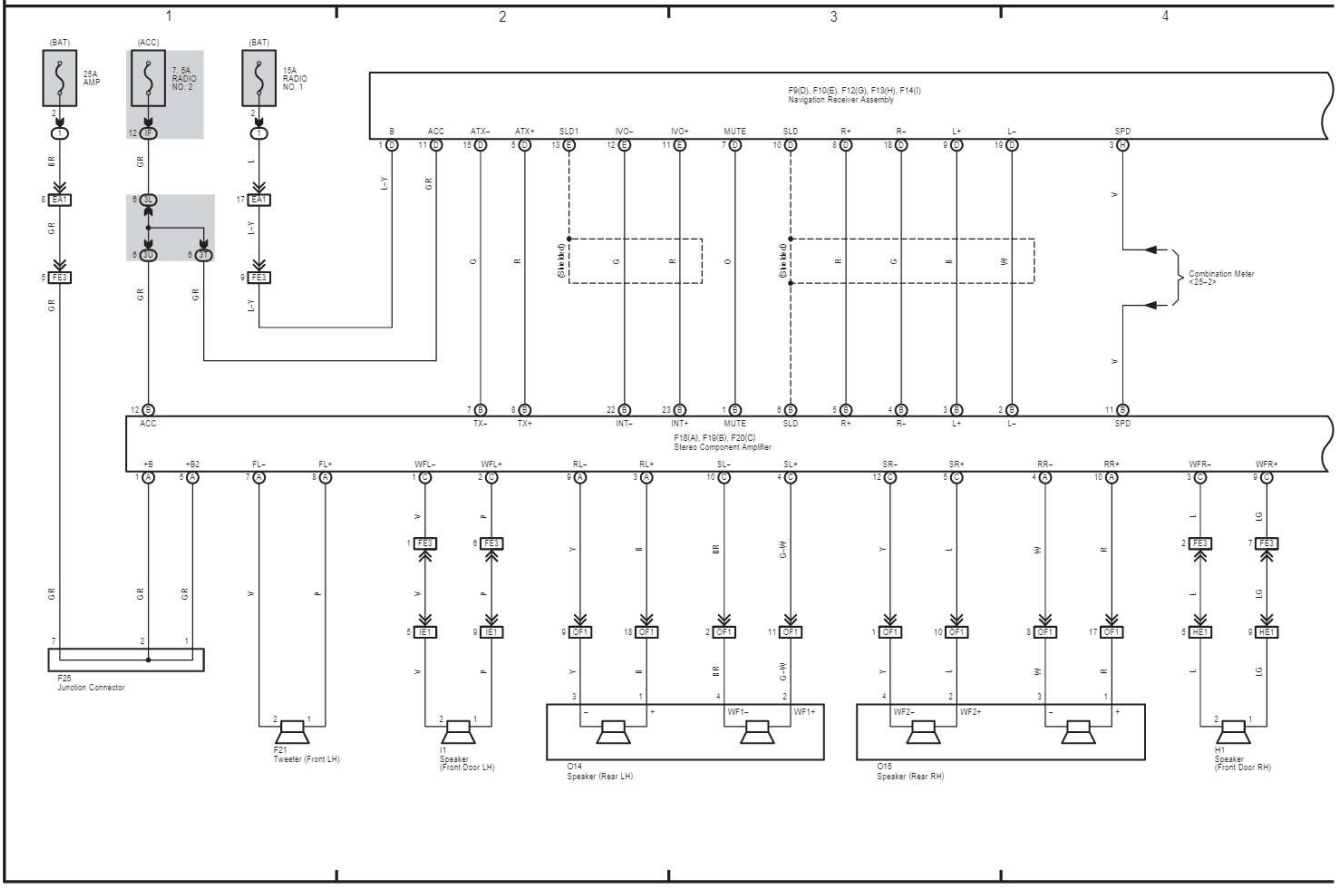

Power Seat (Driver' s Seat)
Power Seat (Front Passenger' s Seat)
1
2
3
4
(BAT)
30A P/SEAT
IG
E
N27(A), U11(B) Junction Connector
LG
G
EC22
O20(A), T18(B) Junction Connector
U8 Power Seat SW (Driver's Seat Lumbar Support Control)
U7 Power Seat SW (Driver' s Seat)
T8 Power Seat SW (Front Passenger' s Seat)
Front
Rear
Up
Down
SLDF
Slide
SLDR
FUP
Front Vertical
FDWN
RCLF
Reclining
RCLR
LUP
Lifter
LDWN
U6 Power Seat Motor (Driver's Seat Lumbar Support Control)
U1 Power Seat Motor (Driver's Seat Slide Control)
U2 Power Seat Motor (Driver's Seat Front Vertical Control)
U3 Power Seat Motor (Driver's Seat Reclining Control)
U4 Power Seat Motor (Driver's Seat Lifter Control)
T1 Power Seat Motor (Front Passenger's Seat Slide Control)
T3 Power Seat Motor (Front Passenger's Seat Reclining Control)
W-B
L
Y
W
P
B
BR
V
G
EM2
E7
E3

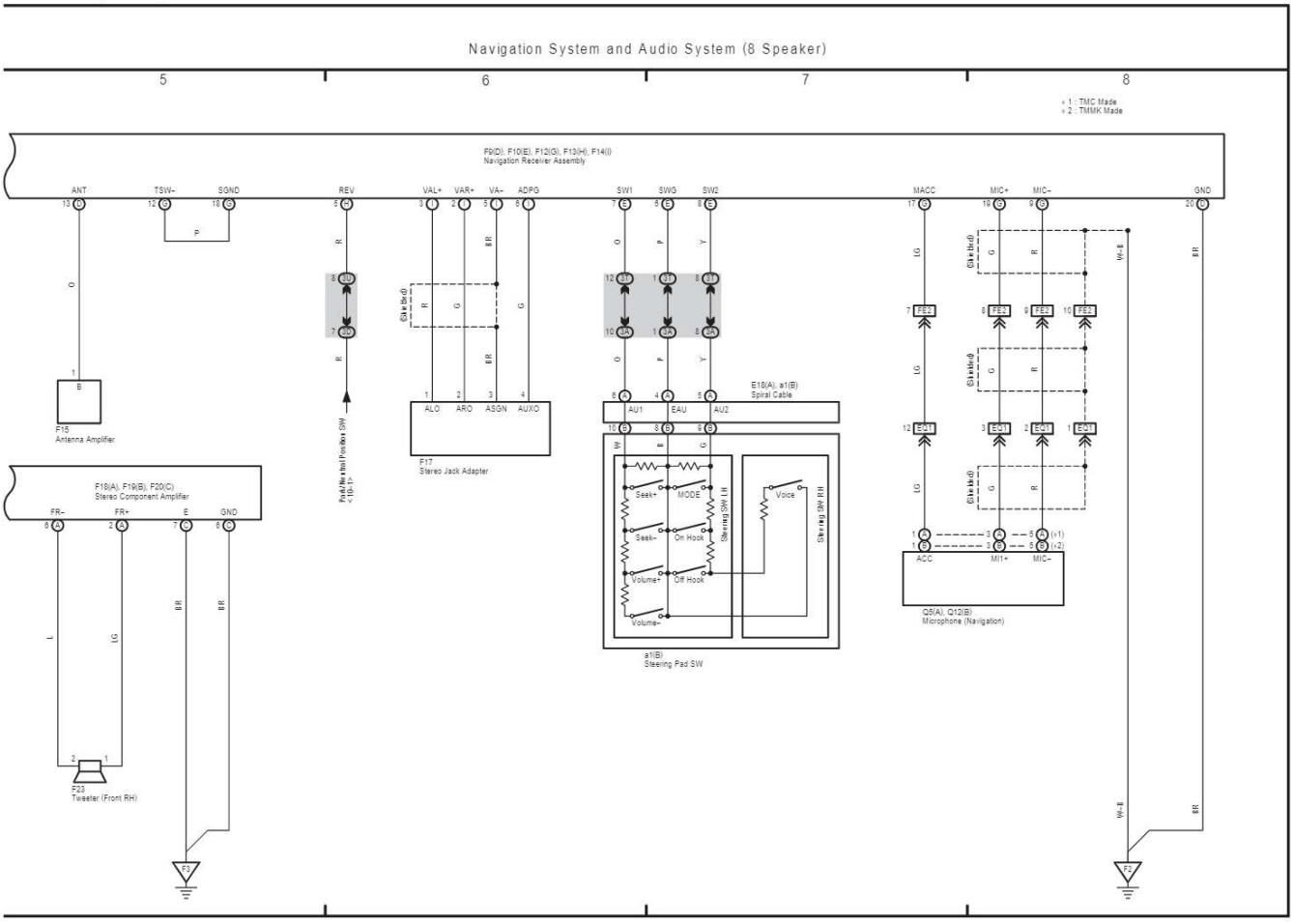

Power Outlet
Horn
Shift Lock
1
2
3
4
(ACC)
20A
PWR OUTLET
12
2K
16
1K
R
11
EN2
1
B
E
2
E5
Power Outlet
Socket (Front)
E9
Power Outlet
Socket (Rear)
W–B
4
8
2
E49
Junction
Connector
E2
W
1
1G
HORN
Relay
10A
HORN
8
1B
10
1C
11
1D
5
1T
Main Body ECU
<2-11>
8
A
HO
1
E
E18(A), a1(B)
Spiral Cable
Horn SW
a1(B)
Steering
Pad SW
FL MAIN
3. 0W
Battery
GR
A4
Horn (Low)
A3
Horn (High)
(IG)
(ACC)
7. 5A
ECU-IG
NO. 2
7. 5A
ECU-ACC
19
1F
2
1F
O
L
(×2)
5
3K
11
3K
Main Body ECU
<2-11>
Stop Lamp SW
<10-3>
G
(×1)
W
12
A
8
B
11
A
5
B
6
A
4
B
(×1)
(×2)
IG
ACC
P2
STP
E32(B), E57(A)
Shift Lock Control ECU
E
KLS+
P
E2
SLS+
SLS–
3
A
1
B
(×1)
5
B
(×2)
Y
(×2)
Shift Lock
Solenoid
E24
Key Interlock
Solenoid
C
W–B
(×2)
2
3K
1
3K
3
3K
E49
Junction
Connector
E2
× 1 : w/ Smart Key System
× 2 : w/o Smart Key System

22 CAMRY

(Cont. next page)

Navigation System and Audio System (8 Speaker)

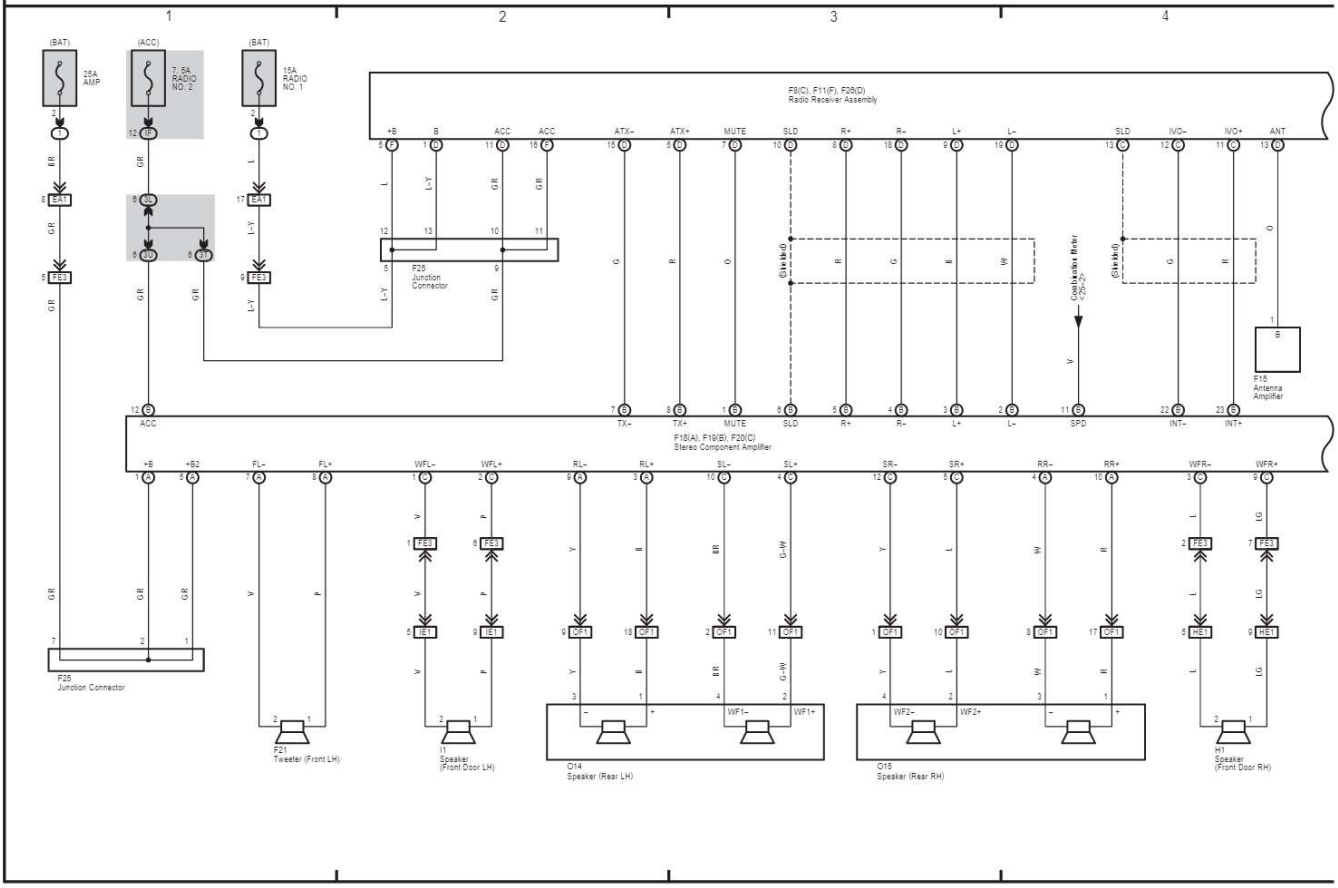


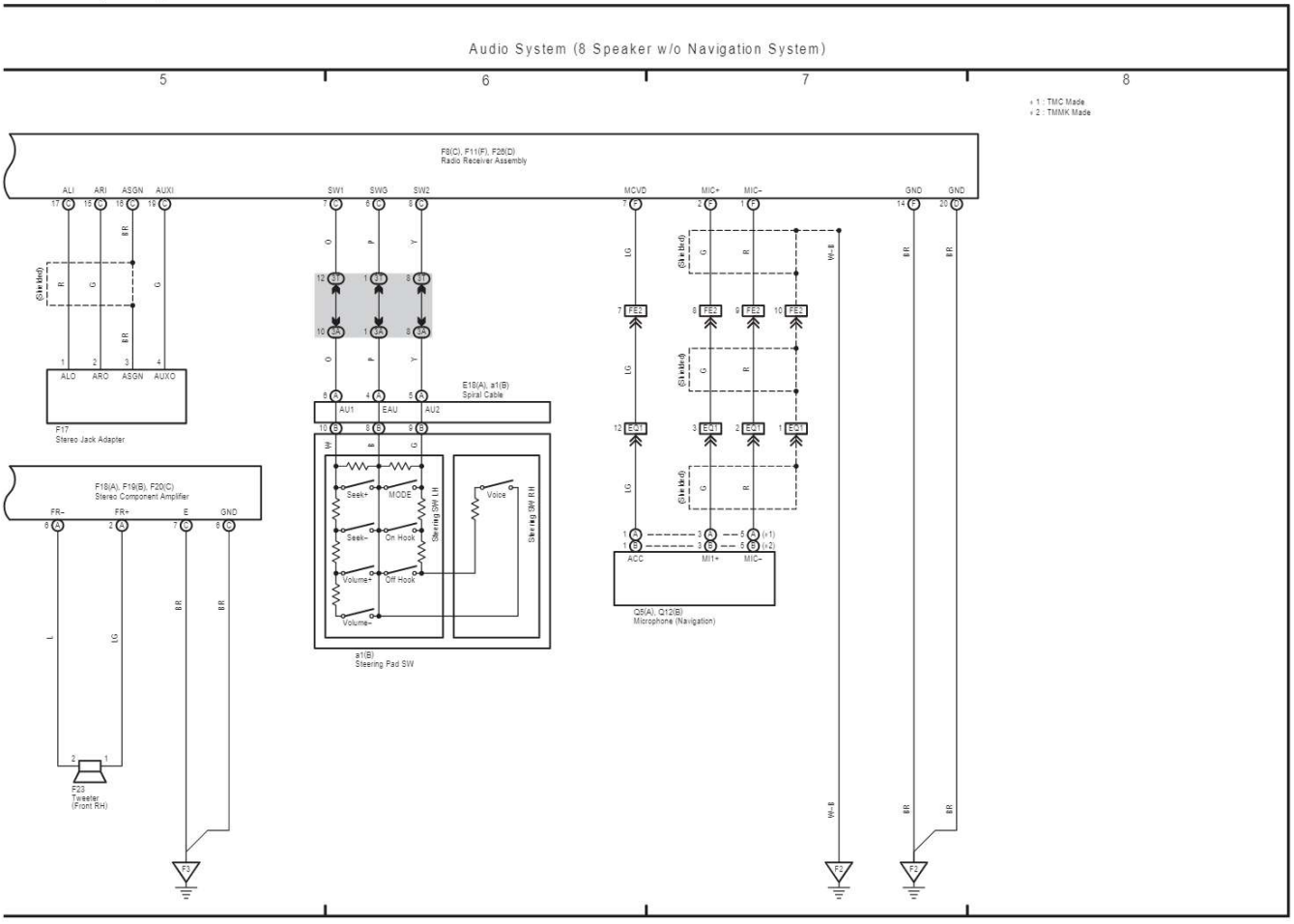

Navigation System and Audio System (8 Speaker)
5
6
7
8
* 1 : TMC Made
* 2 : TMMK Made
F9(D), F10(E), F12(G), F13(H), F14(I)
Navigation Receiver Assembly
ANT
TSW-
SGND
REV
VAL+
VAR+
VA-
ADPG
SW1
SWG
SW2
MACC
MIC+
MIC-
GND
F15
Antenna Amplifier
F18(A), F19(B), F20(C)
Stereo Component Amplifier
FR-
FR+
GND
F23
Tweeter (Front RH)
F17
Stereo Jack Adapter
ALO
ARO
ASGN
AUXO
E18(A), a1(B)
Spiral Cable
AU1
EAU
AU2
Seek+
MODE
Seek-
On Hook
Volume+
Off Hook
Volume-
Voice
Steering SW LH
Steering SW RH
a1(B)
Steering Pad SW
Q5(A), Q12(B)
Microphone (Navigation)
ACC
MI1+
MIC-

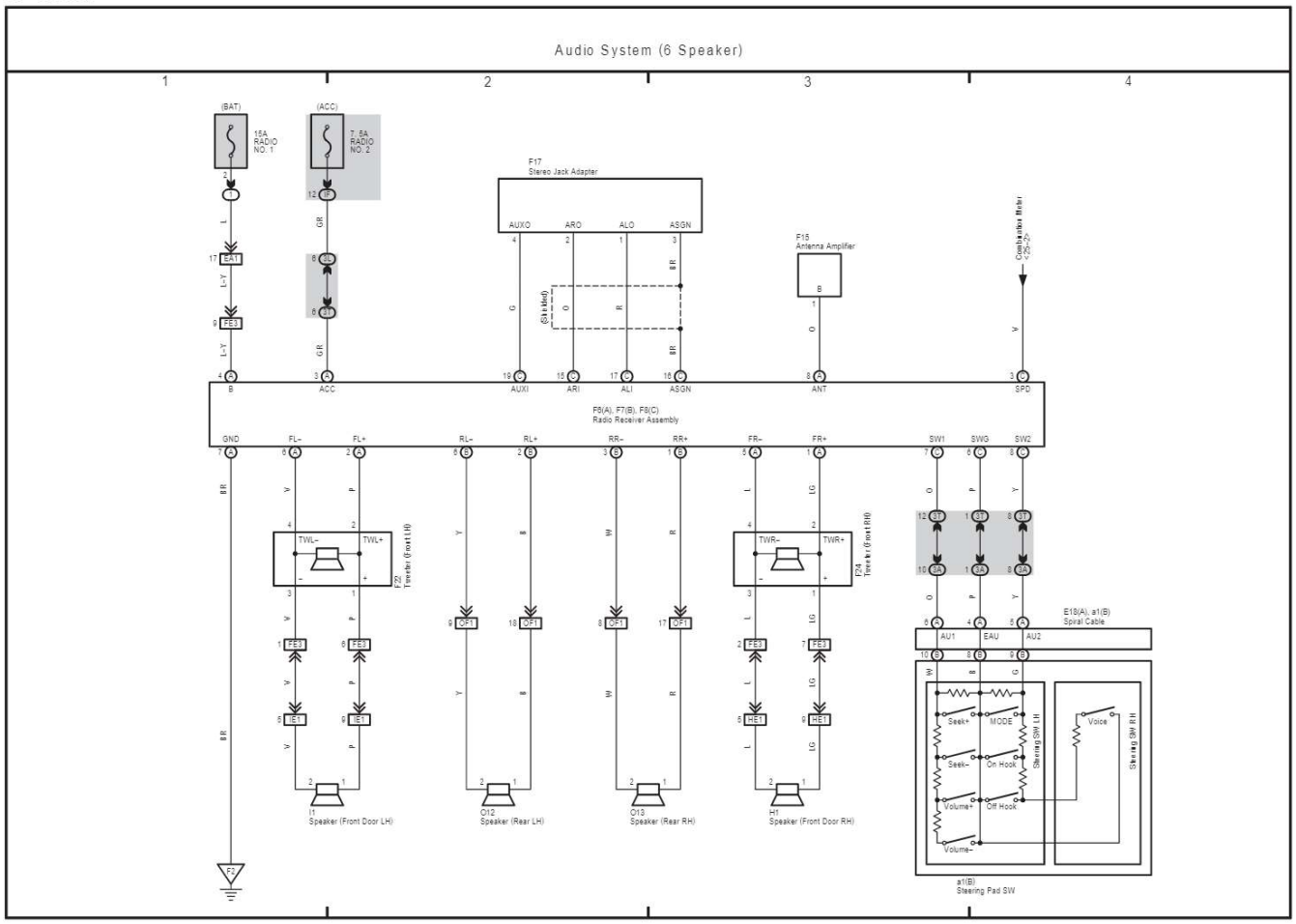
23 CAMRY

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Audio System (8 Speaker w/o Navigation System)

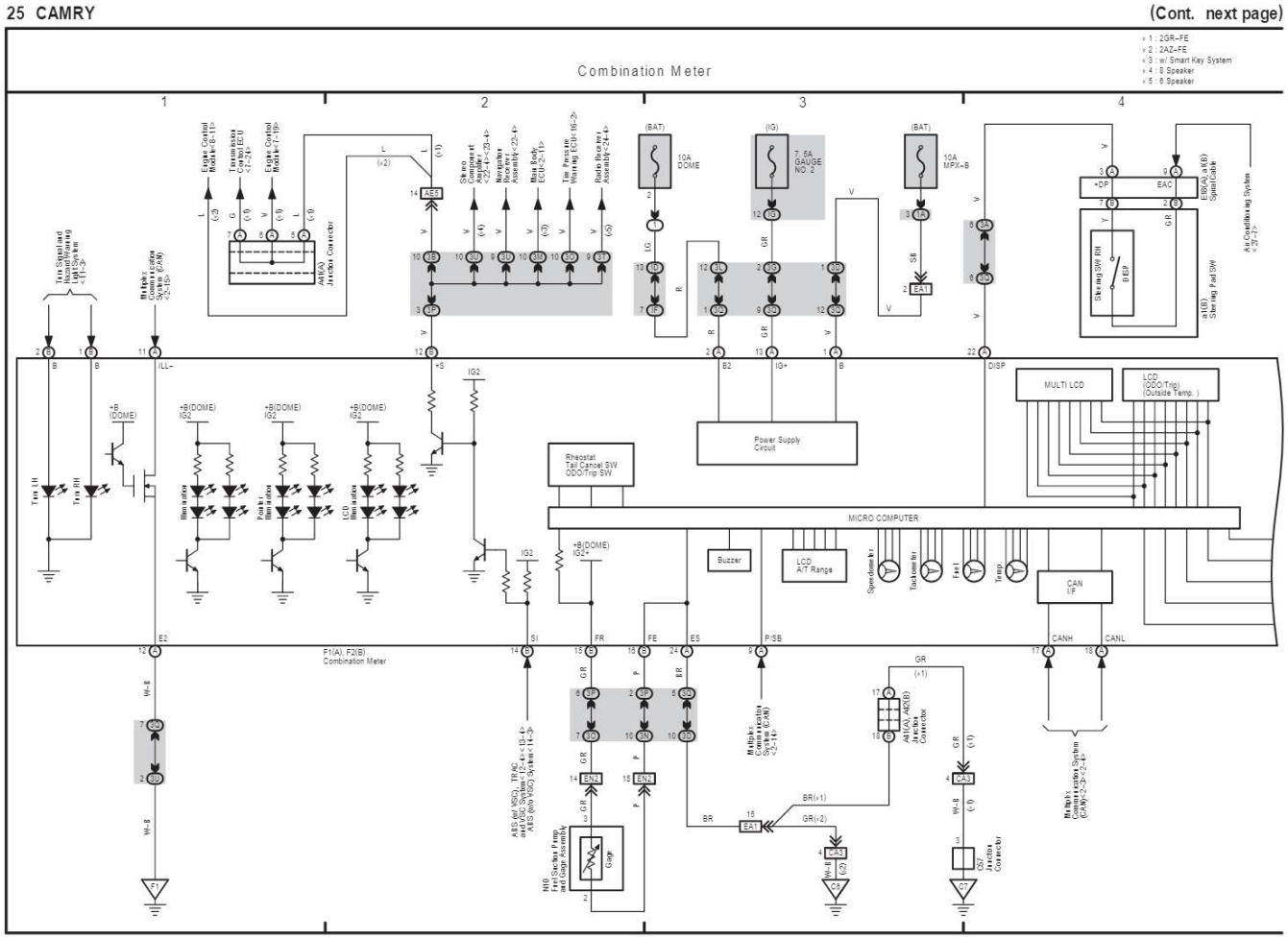


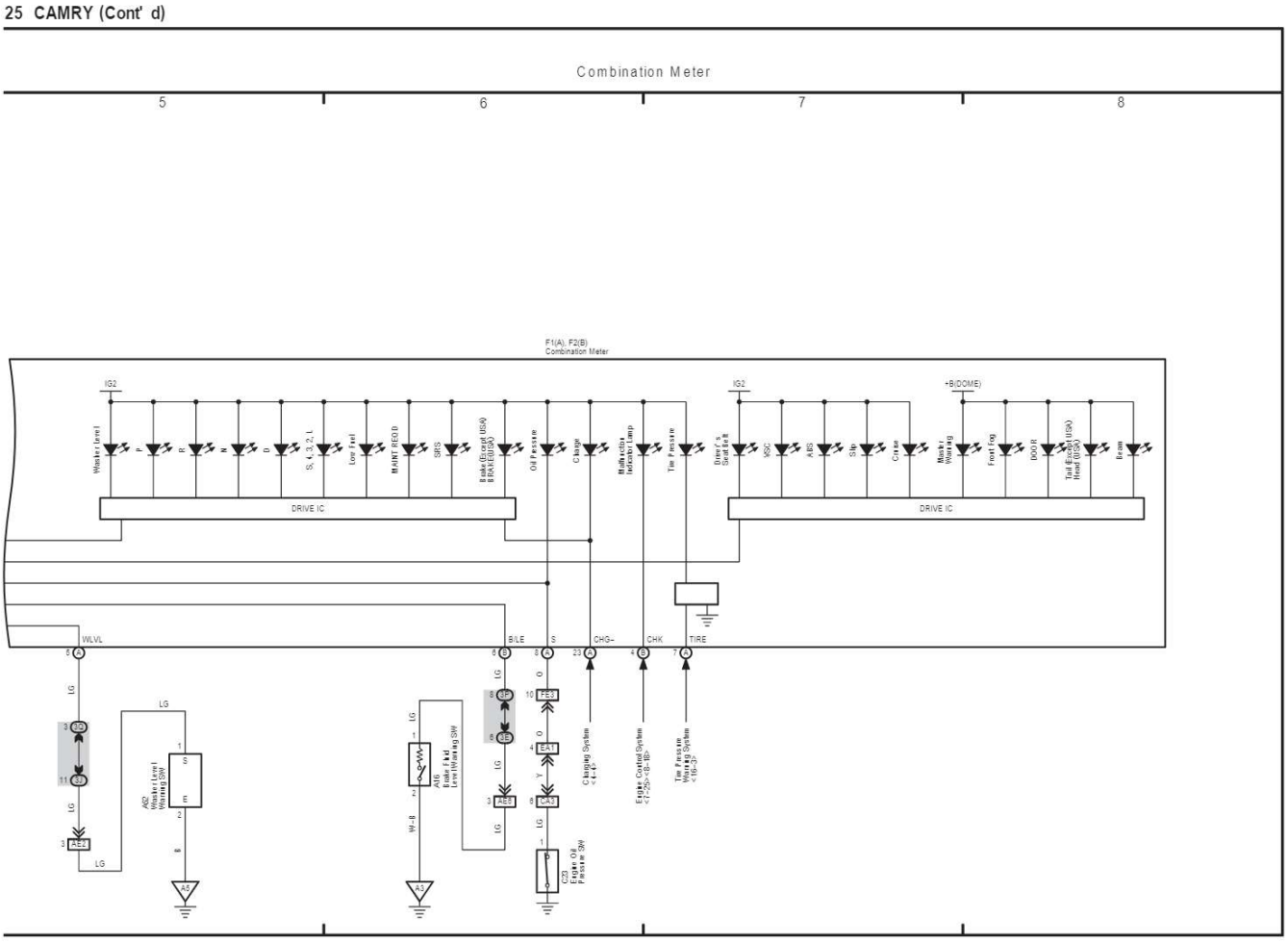

Audio System (8 Speaker w/o Navigation System)
5
6
7
8
*1 : TMC Made
*2 : TMMK Made
F8(C), F11(F), F26(D)
Radio Receiver Assembly
ALI
ARI
ASGN
AUXI
SW1
SWG
SW2
MCVD
MIC+
MIC−
GND
GND
(Shielded)
ALO
ARO
ASGN
AUXO
F17
Stereo Jack Adapter
E18(A), a1(B)
Spiral Cable
AU1
EAU
AU2
F18(A), F19(B), F20(C)
Stereo Component Amplifier
FR−
FR+
E
GND
Seek+
MODE
Seek−
On Hook
Volume+
Off Hook
Volume−
Steering SW LH
Voice
Steering SW RH
a1(B)
Steering Pad SW
ACC
MI1+
MIC−
Q5(A), Q12(B)
Microphone (Navigation)
F23
Tweeter
(Front RH)
W−B
BR
LG
G
R
O
P
Y
W
B
L


Audio System (6 Speaker)
1
2
3
4
(BAT)
(ACC)
15A RADIO NO. 1
7.5A RADIO NO. 2
F17 Stereo Jack Adapter
AUXO
ARO
ALO
ASGN
(Shielded)
F15 Antenna Amplifier
Combination Meter C25-22
AUXI
ARI
ALI
ANT
SPD
ACC
F9(A), F7(B), F8(C) Radio Receiver Assembly
GND
FL−
FL+
RL−
RL+
RR−
RR+
FR−
FR+
SW1
SWG
SW2
TWL−
TWL+
F22 Tweeter (Front LH)
TWR−
TWR+
F24 Tweeter (Front RH)
E18(A), a1(B) Spiral Cable
AU1
EAU
AU2
Seek+
MODE
Seek−
On Hook
Volume+
Off Hook
Volume−
Voice
Steering SW LH
Steering SW RH
I1 Speaker (Front Door LH)
O12 Speaker (Rear LH)
O13 Speaker (Rear RH)
a1 Speaker (Front Door RH)
a1(B) Steering Pad SW

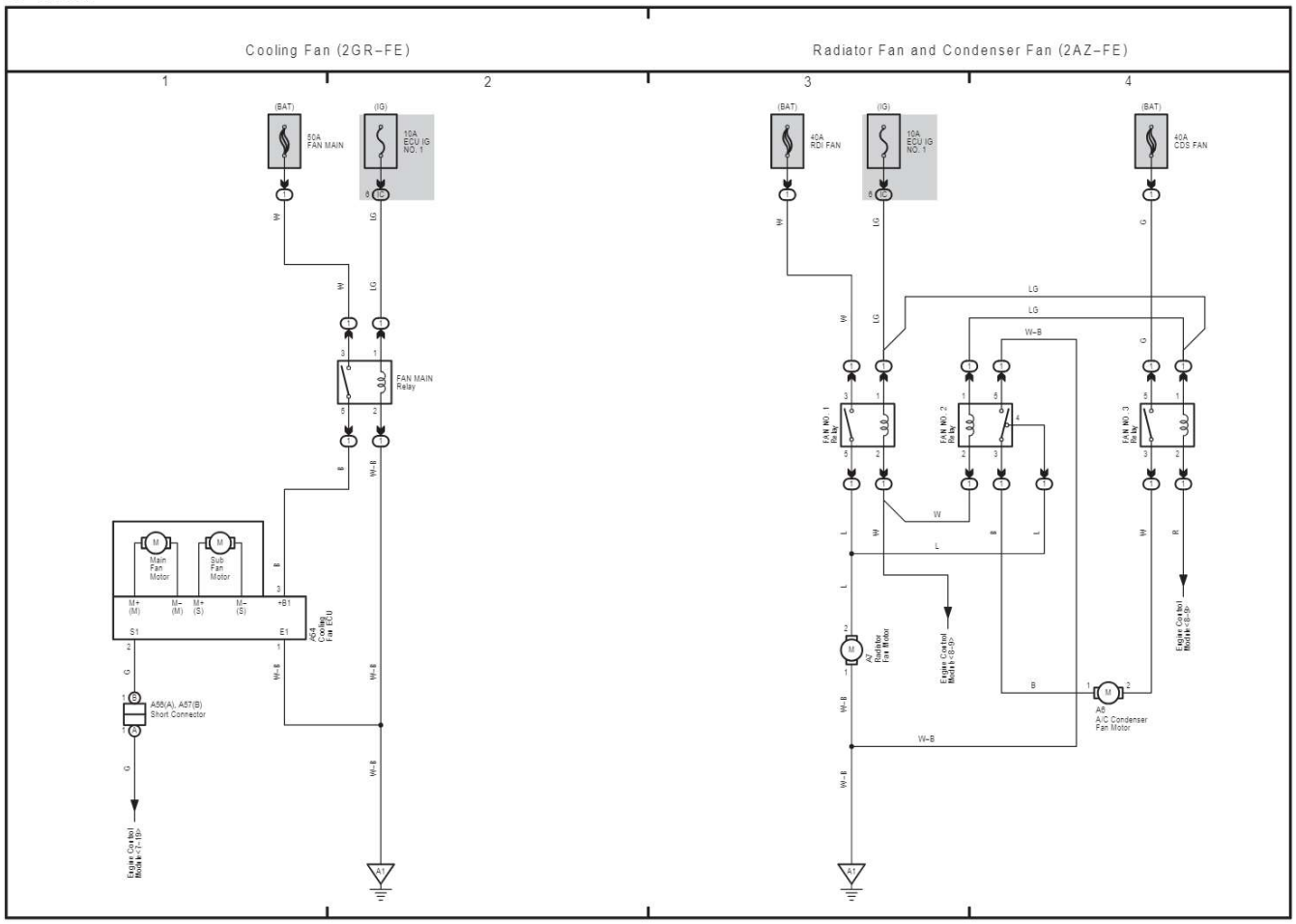
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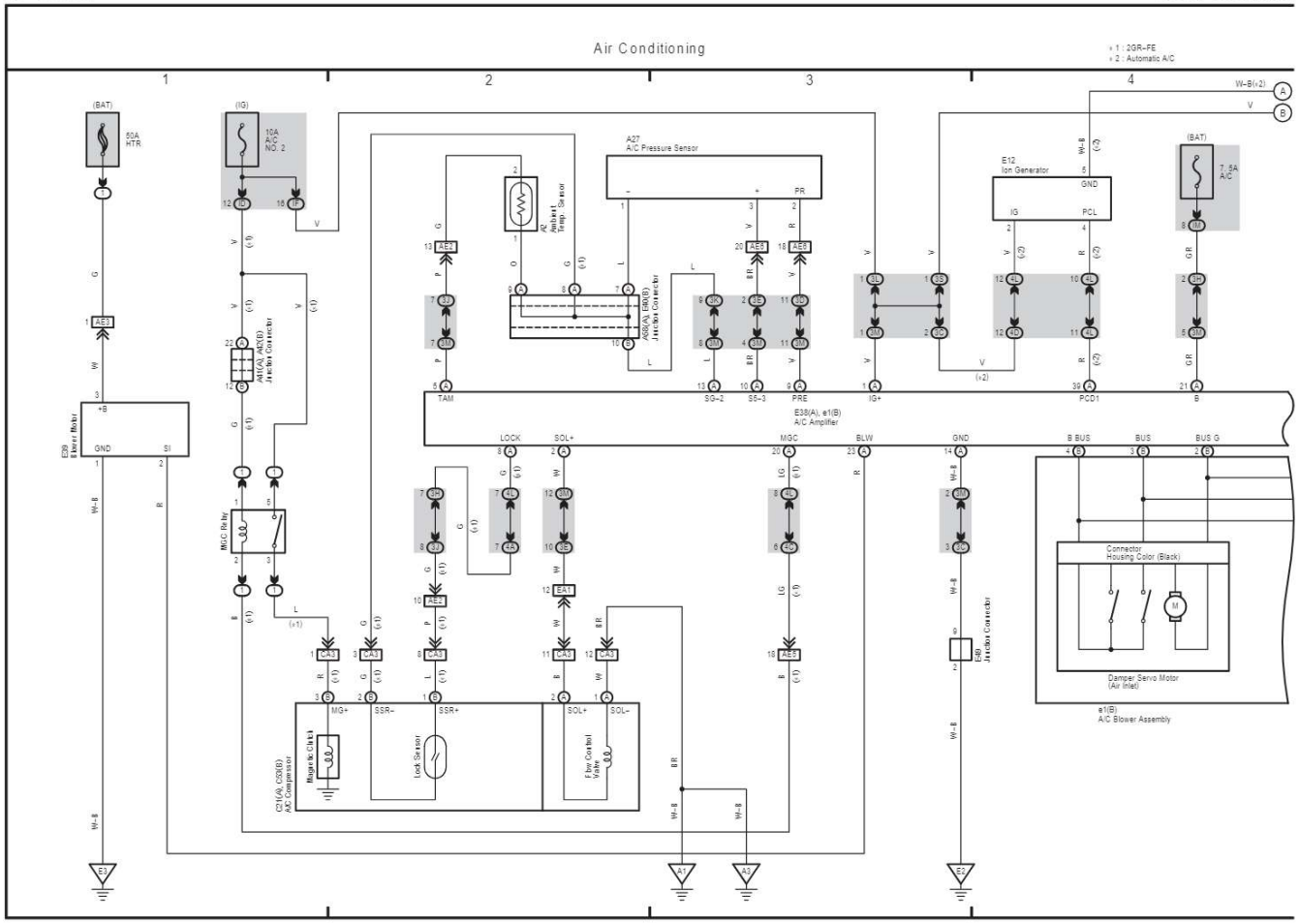

Combination Meter
5
6
7
8
F1(A), F2(B)
Combination Meter
IG2
Washer Level
P
R
N
D
S, 4, 3, 2, L
Low Fuel
MAINT REQ'D
SRS
Brake (Except USA)
Brake (USA)
Oil Pressure
Charge
Malfunction Indicator Lamp
Tire Pressure
Driver's Seat Belt
VSC
ABS
Slip
Cruise
Main Warning
Front Fog
DOOR
Tail (Except USA)
Head (USA)
Beam
+B(DOME)
DRIVE IC
DRIVE IC
WLVL
B/LE
S
CHG-
CHK
TIRE
LG
O
Y
W-B
A43
A42
A41
A40
A39
A38
A37
A36
A35
A34
A33
A32
A31
A30
A29
A28
A27
A26
A25
A24
A23
A22
A21
A20
A19
A18
A17
A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
B46
B45
B44
B43
B42
B41
B40
B39
B38
B37
B36
B35
B34
B33
B32
B31
B30
B29
B28
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B26
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B24
B23
B22
B21
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B19
B18
B17
B16
B15
B14
B13
B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
C20
C19
C18
C17
C16
C15
C14
C13
C12
C11
C10
C9
C8
C7
C6
C5
C4
C3
C2
C1
A02
Washer Level Warning SW
A03
Brake Fluid Level Warning SW
C23
Engine Oil Pressure SW
Charging System
<1.4.4>
Engine Control System
<1-2Sb-1><8-1B>
Tire Pressure Warning System
<10-1>
M

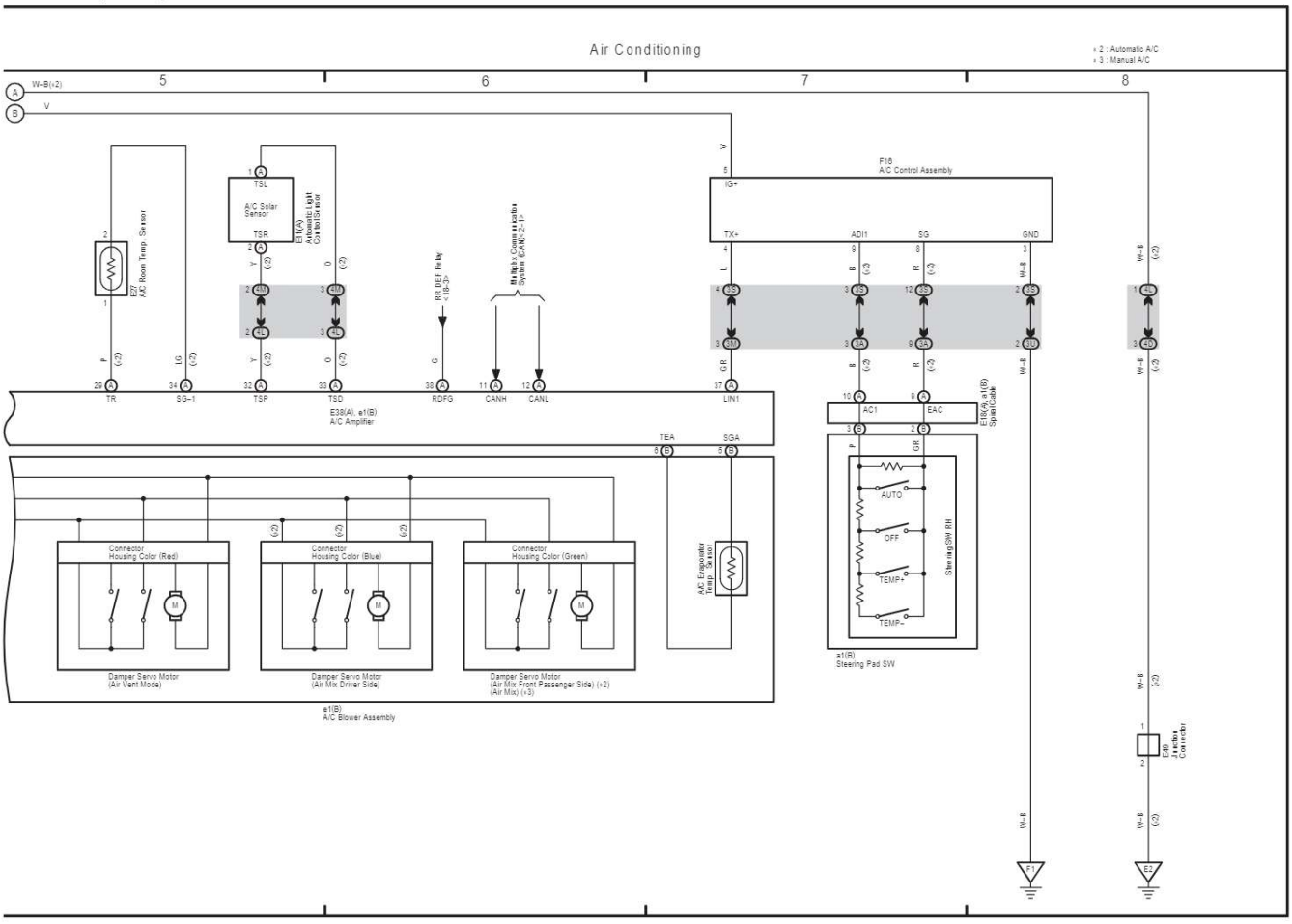
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Cooling Fan (2GR–FE)
Radiator Fan and Condenser Fan (2AZ–FE)
1
2
3
4
(BAT)
(IG)
50A FAN MAIN
10A ECU IG NO. 1
40A RDI FAN
40A CDS FAN
FAN MAIN Relay
FAN NO. 1 Relay
FAN NO. 2 Relay
FAN NO. 3 Relay
Main Fan Motor
Sub Fan Motor
A54 Cooling Fan ECU
A58(A), A57(B) Short Connector
A7 Radiator Fan Motor
A6 A/C Condenser Fan Motor
Engine Control Module <7-19>
Engine Control Module <8-9>
Engine Control Module <8-8>
A1
W
LG
G
B
W–B
L
R

27 CAMRY

(Cont. next page)




Air Conditioning
* 2 : Automatic A/C
* 3 : Manual A/C
5
6
7
8
W-B(*2)
V
F16
A/C Control Assembly
IG+
TX+
ADI1
SG
GND
E27
A/C Room Temp. Sensor
A/C Solar Sensor
E11(A)
Automatic Light Control Sensor
TSL
TSR
RR DEF Relay
Multiplex Communication System (CAN) *2,*3
E38(A), e1(B)
A/C Amplifier
TR
SG-1
TSP
TSD
RDFG
CANH
CANL
LIN1
AC1
EAC
TEA
SGA
e1(B)
A/C Blower Assembly
Connector
Housing Color (Red)
Connector
Housing Color (Blue)
Connector
Housing Color (Green)
Damper Servo Motor
(Air Vent Mode)
Damper Servo Motor
(Air Mix Driver Side)
Damper Servo Motor
(Air Mix Front Passenger Side) (*2)
(Air Mix) (*3)
A/C Evaporator Temp. Sensor
a1(B)
Steering Pad SW
AUTO
OFF
TEMP+
TEMP-
Steering SW RH
E4(B)
Clock Spring
Connector
E4(B)
Clock Spring
Connector
F1
E2