FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 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.
● CAMRY Repair Manual	RM0260E
● CAMRY New Car Features	NM0260E

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.

©2006 TOYOTA MOTOR CORPORATION
All rights reserved. This book may not be reproduced or copied, in whole or in part, without the written permission of Toyota Motor Corporation.
First Printing : Jan. 13, 2006 01–060113–00

CAMRY
ELECTRICAL WIRING DIAGRAM

	Section Code	Page
INTRODUCTION	A	2
HOW TO USE THIS MANUAL	B	3
TROUBLESHOOTING	C	12
ABBREVIATIONS	D	17
GLOSSARY OF TERMS AND SYMBOLS	E	18
RELAY LOCATIONS	F	20
ELECTRICAL WIRING ROUTING	G	52
SYSTEM CIRCUITS	H	84
GROUND POINT	I	428
POWER SOURCE (Current Flow Chart)	J	440
CONNECTOR LIST	K	450
PART NUMBER OF CONNECTORS	L	472
OVERALL ELECTRICAL WIRING DIAGRAM	M	476

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.

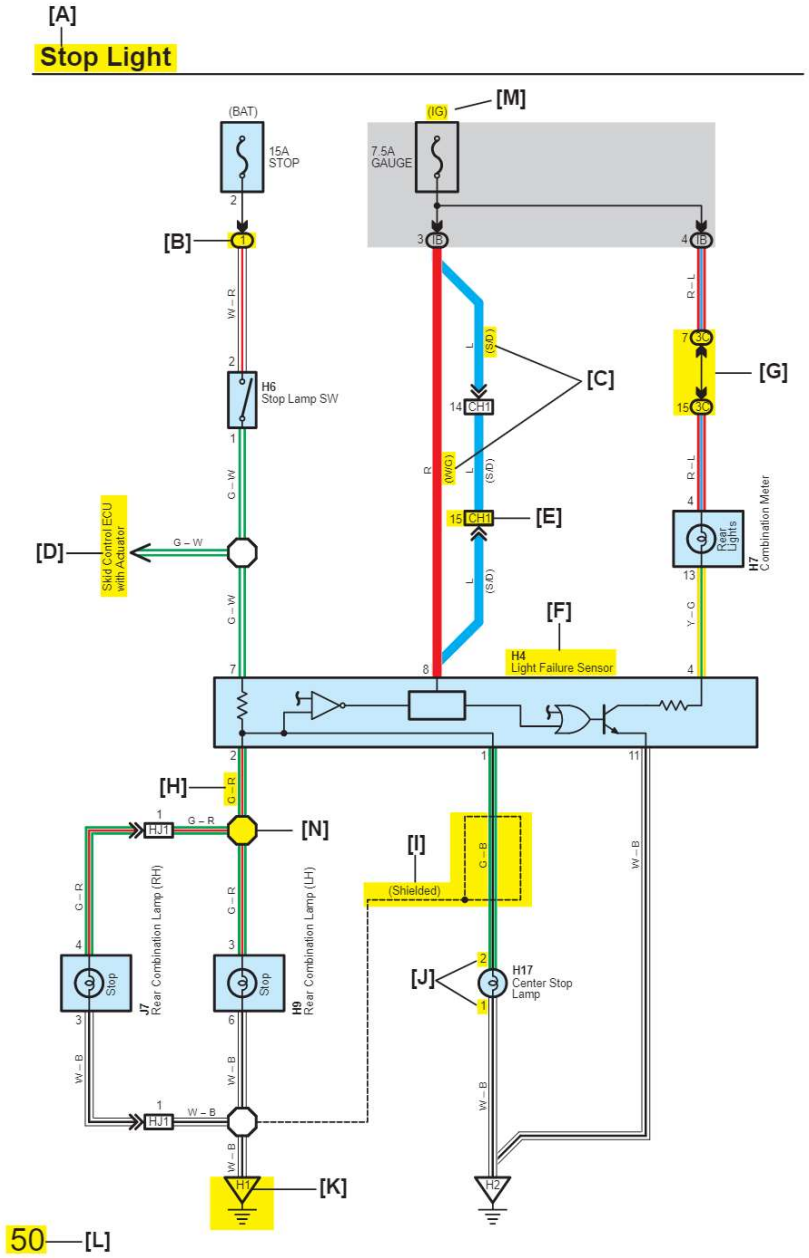
This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

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] : System Title

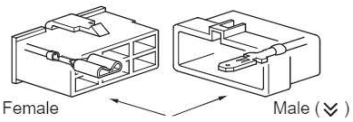
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

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.



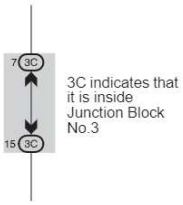
The first character of the connector code indicates the alphabetical code allocated to the wire harness which has the female connector, and the second shows that of the wire harness which has the male connector.
The third character indicates a serial number used to distinguish between the wire harness 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:



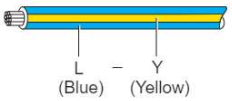
[H] : Indicates the wiring color.

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

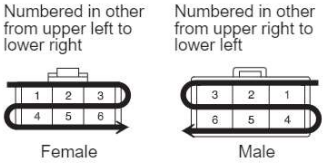


[I] : Indicates a shielded cable.



[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)

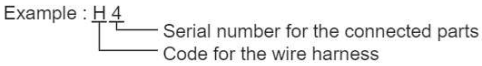
[T] ▽ : Ground Points

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.

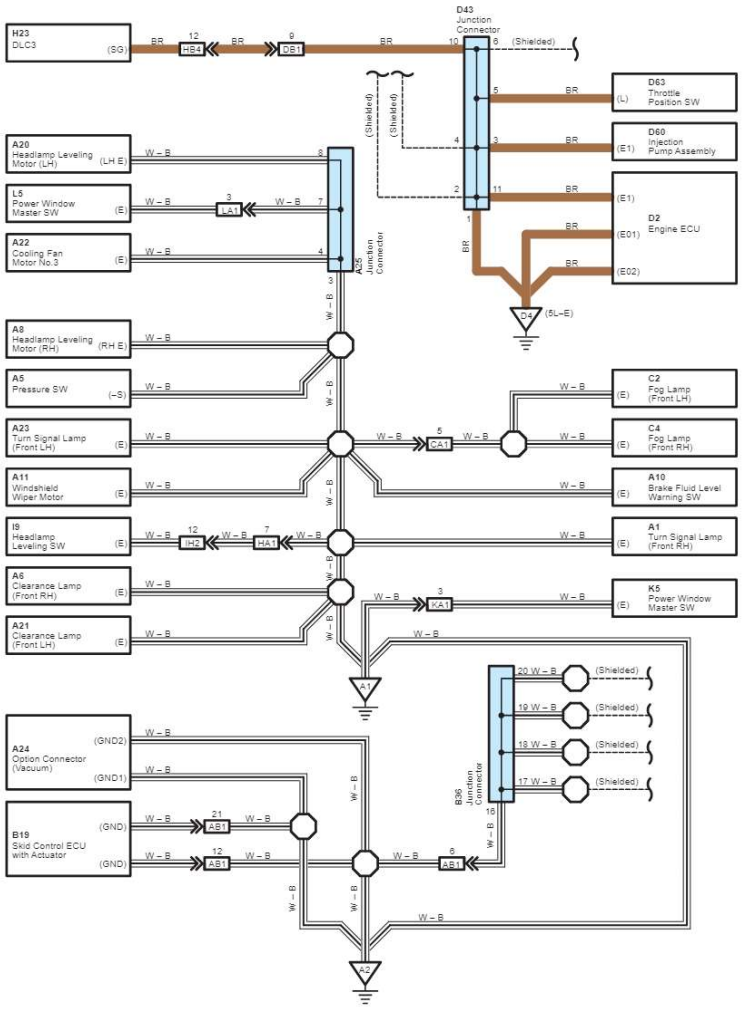
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

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

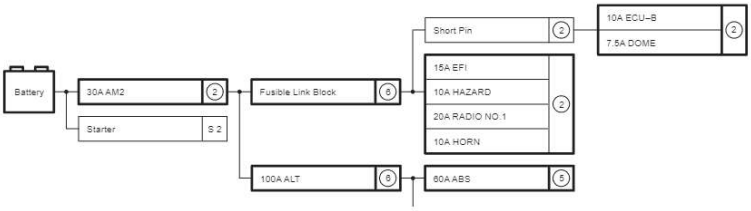


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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)

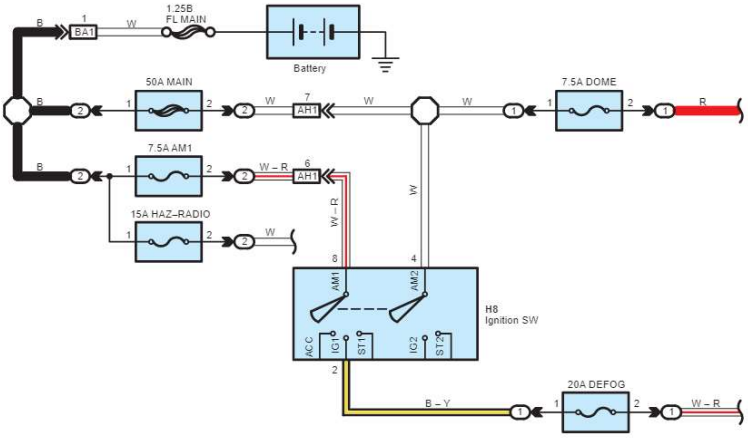
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

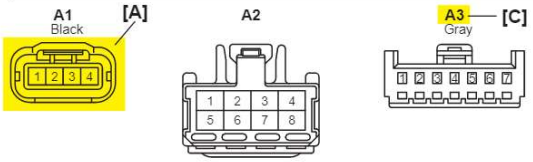
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off System	214 230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

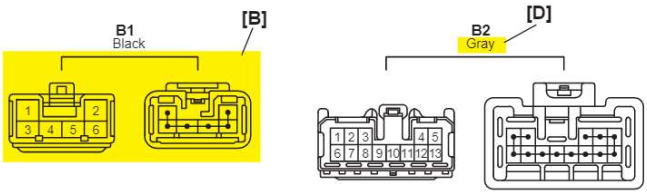
Power Source



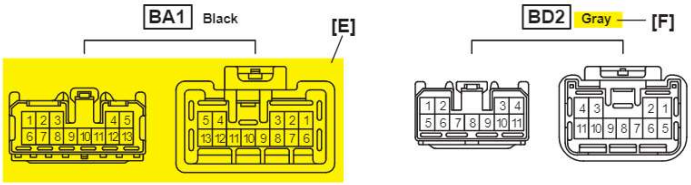
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



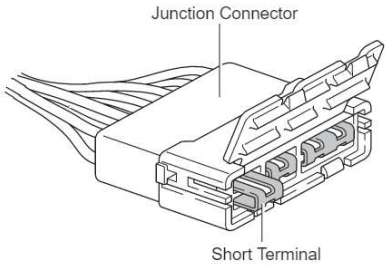


K CONNECTOR LIST



[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
A1	Turn Signal Lamp (Front RH)	90980–11019
A2	Inlet Air Temp. Sensor	90980–11163
A3	Air Flow Meter	90980–12292
A4	A/C Pressure Sensor	90980–10845
A5	Pressure SW	90980–10943
A6	Clearance Lamp (Front RH)	90980–11156
[A]	Headla [B] LH)	909[C] 314
A8	Headlamp Leveling Motor (RH)	90980–11016
A9	Brake Vacuum Warning SW	90980–11252
A10	Brake Fluid Level Warning SW	90980–11207
A11	Windshield Washer Motor	90980–11599
A12	Airbag Sensor (Front RH)	90980–11856
A13	Air[illegible]	90980–12490

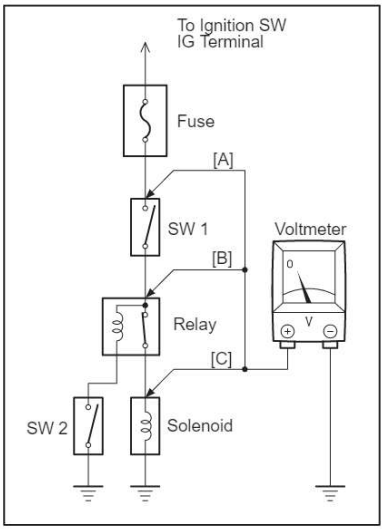
Code	Part Name	Part Number
B22	Door Courtesy SW (Front LH)	90980–12470
B23	Front Seat Outer Belt (LH)	90980–12253
B24	Blower SW (Rear Heater)	90980–10463
B25	Front Seat Outer Belt (RH)	90980–12253
B26	Door Courtesy SW (Front RH)	90980–12470
B27	Cooling Fan ECU No.1	90980–10841
B28	Cooling Fan ECU No.2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

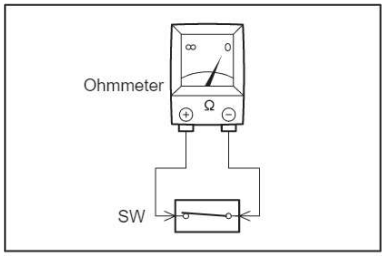


VOLTAGE CHECK

(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)

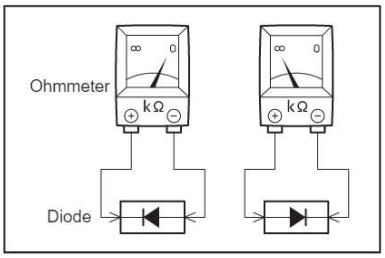
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



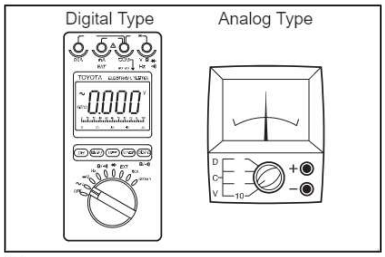
CONTINUITY AND RESISTANCE CHECK

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

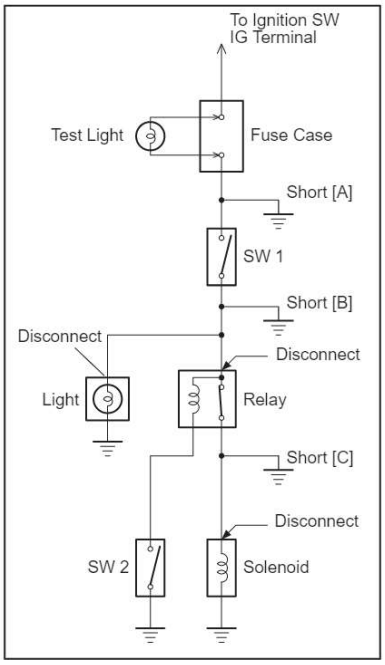
(b) Contact the two leads of an ohmmeter to each of the check points.



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:

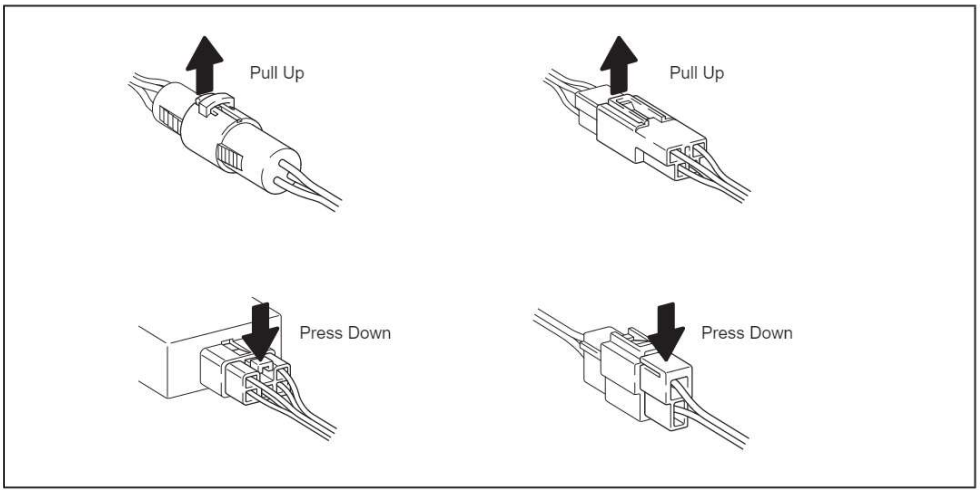
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

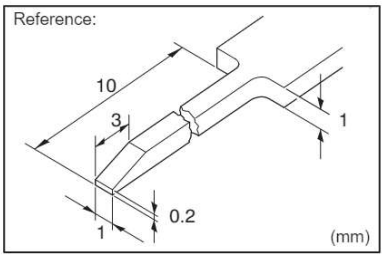
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

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.



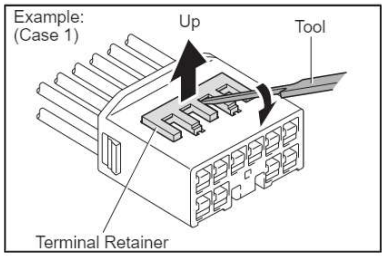


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

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

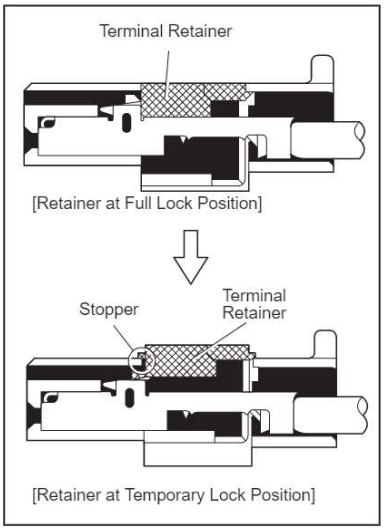


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

   (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.

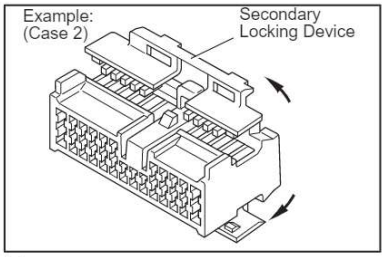


[A] For Non–Waterproof Type Connector

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

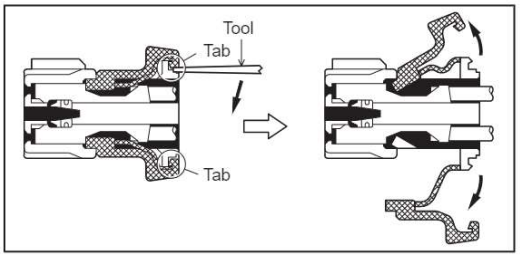
"Case 1"

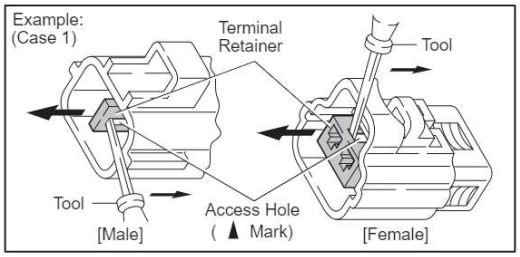
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.



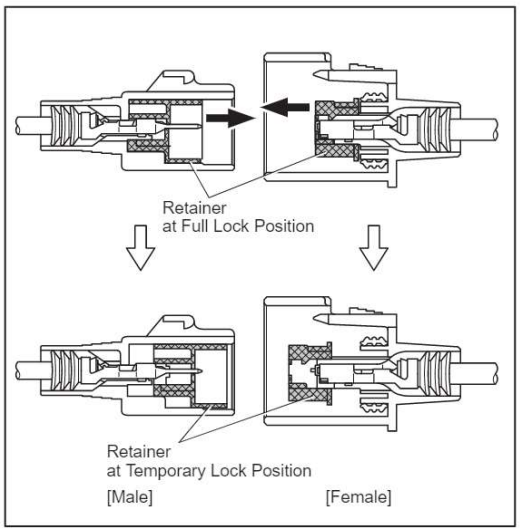


[B] For Waterproof Type Connector

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

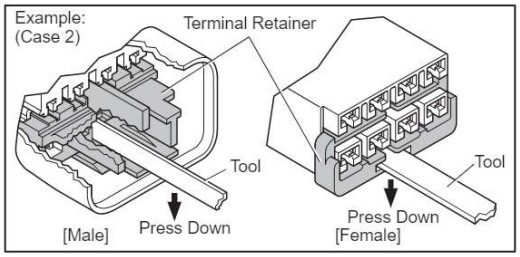


"Case 1"

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

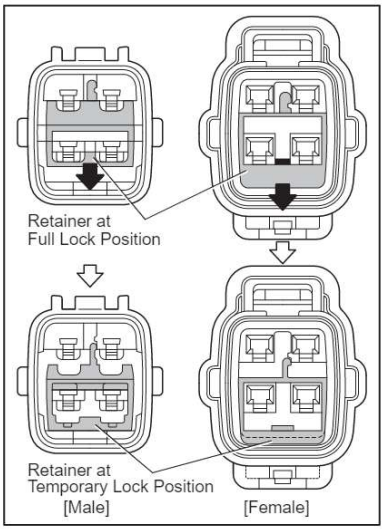
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

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

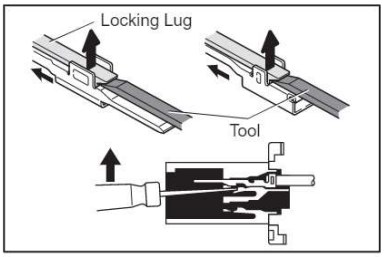


"Case 2"

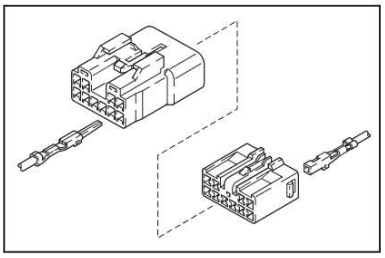
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



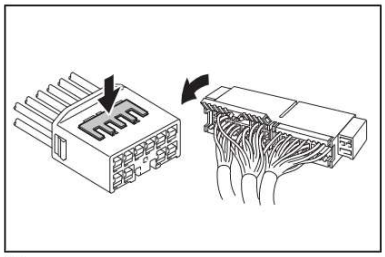
(c) Release the locking lug from terminal and pull the terminal out from rear.



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

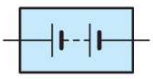
ABBREVIATIONS

The following abbreviations are used in this manual.

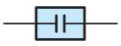
A/C	=	Air Conditioner
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
ACIS	=	Acoustic Control Induction System
ACM	=	Active Control Engine Mount
CAN	=	Controller Area Network
DLC3	=	Data Link Connector 3
EC	=	Electrochromic
ECT	=	Electronic Control Transmission
ECU	=	Electronic Control Unit
EFI	=	Electronic Fuel Injection
ESA	=	Electronic Spark Advance
ETCS–i	=	Electronic Throttle Control System–intelligent
FL	=	Fusible Link
HID	=	High Intensity Discharge
IC	=	Integrated Circuit
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left–Hand
LHD	=	Left–Hand Drive
M/T	=	Manual Transaxle
R/B	=	Relay Block
RH	=	Right–Hand
RHD	=	Right–Hand Drive
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRC	=	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.

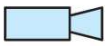
E GLOSSARY OF TERMS AND SYMBOLS



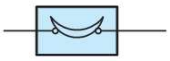
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



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.



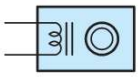
DIODE
A semiconductor which allows current flow in only one direction.



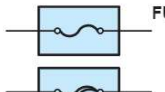
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



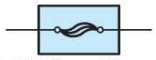
PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.



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



(for Medium Current Fuse)



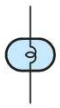
(for High Current Fuse or Fusible Link)

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.



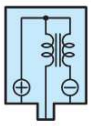
1. SINGLE FILAMENT

2. DOUBLE FILAMENT

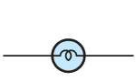
HEADLIGHTS
Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament



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.



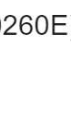
METER, ANALOG
Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.



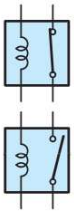
METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.



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



RELAY

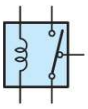


1. NORMALLY CLOSED

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



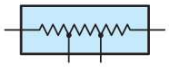
A relay which passes current through one set of contacts or the other.

RESISTOR



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

RESISTOR, TAPPED



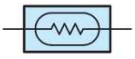
A resistor which supplies two or more different non adjustable resistance values.

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.

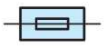
SENSOR, SPEED



(Reed Switch Type)

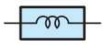
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

SHORT PIN



Used to provide an unbroken connection within a junction block.

SOLENOID



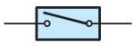
An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

SPEAKER

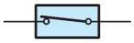


An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



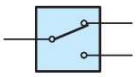
1. NORMALLY OPEN



2. NORMALLY CLOSED

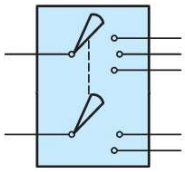
Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

SWITCH, DOUBLE THROW



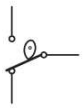
A switch which continuously passes current through one set of contacts or the other.

SWITCH, IGNITION



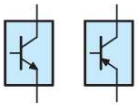
A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.

SWITCH, WIPER PARK



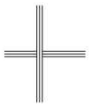
Automatically returns wipers to the stop position when the wiper switch is turned off.

TRANSISTOR

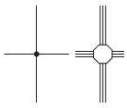


A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".

WIRES



(1) NOT CONNECTED

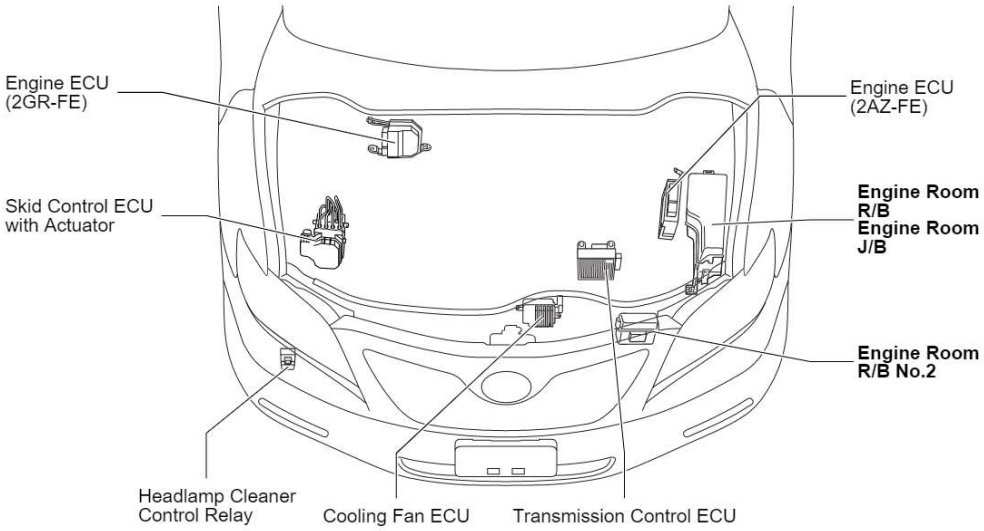


(2) SPLICED

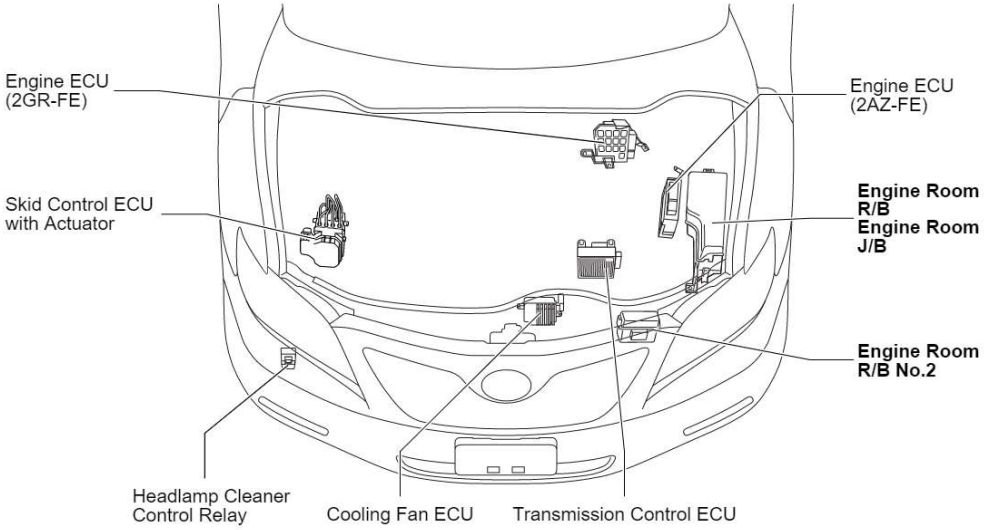
Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (◯) mark at the junction are spliced (joined) connections.

F RELAY LOCATIONS

[Engine Compartment]
(LHD)

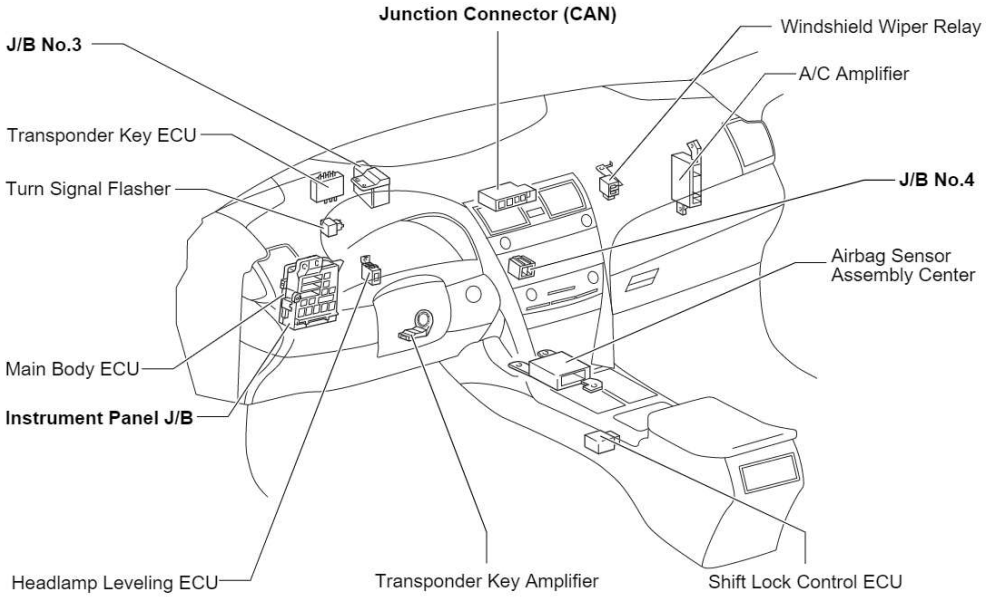


(RHD)

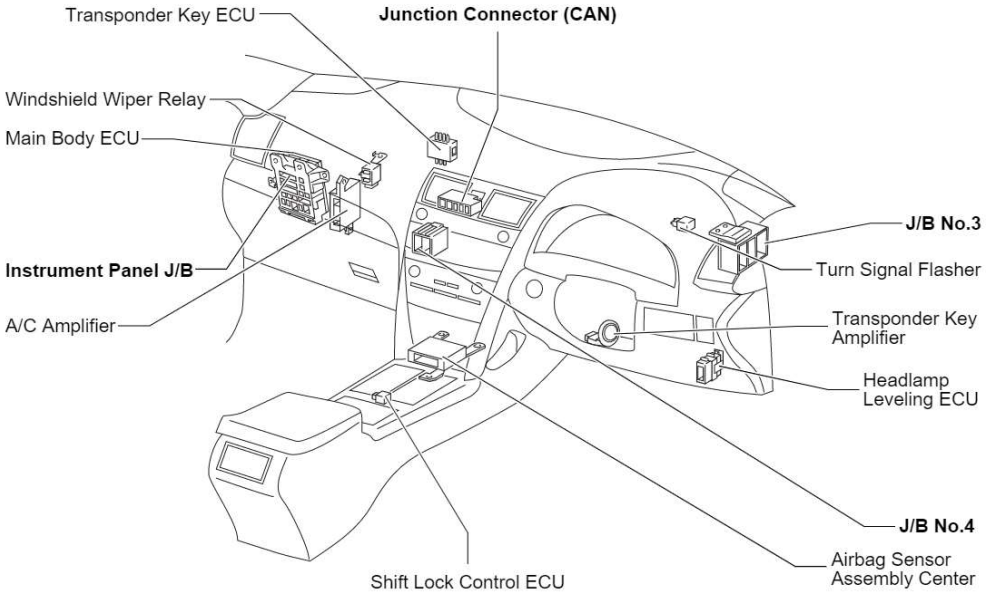


[Instrument Panel]

(LHD)

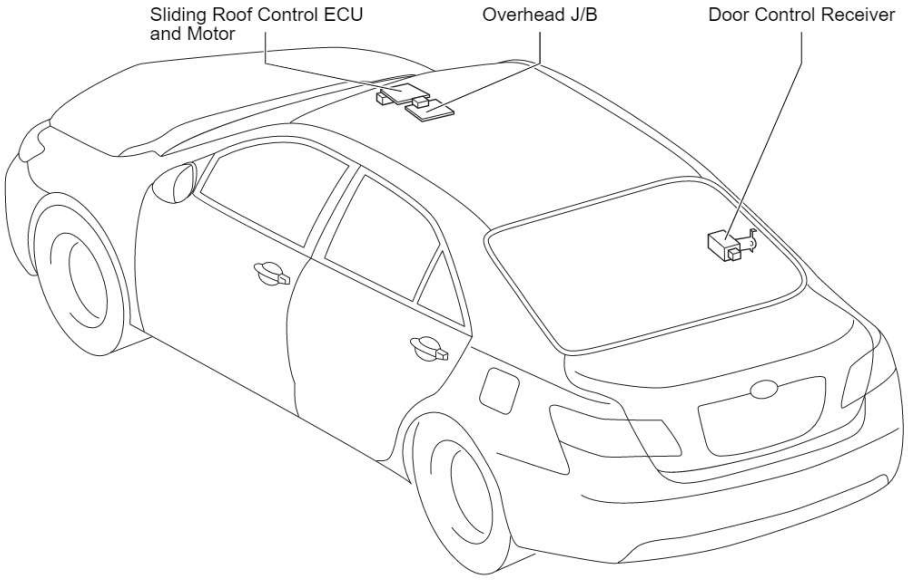


(RHD)



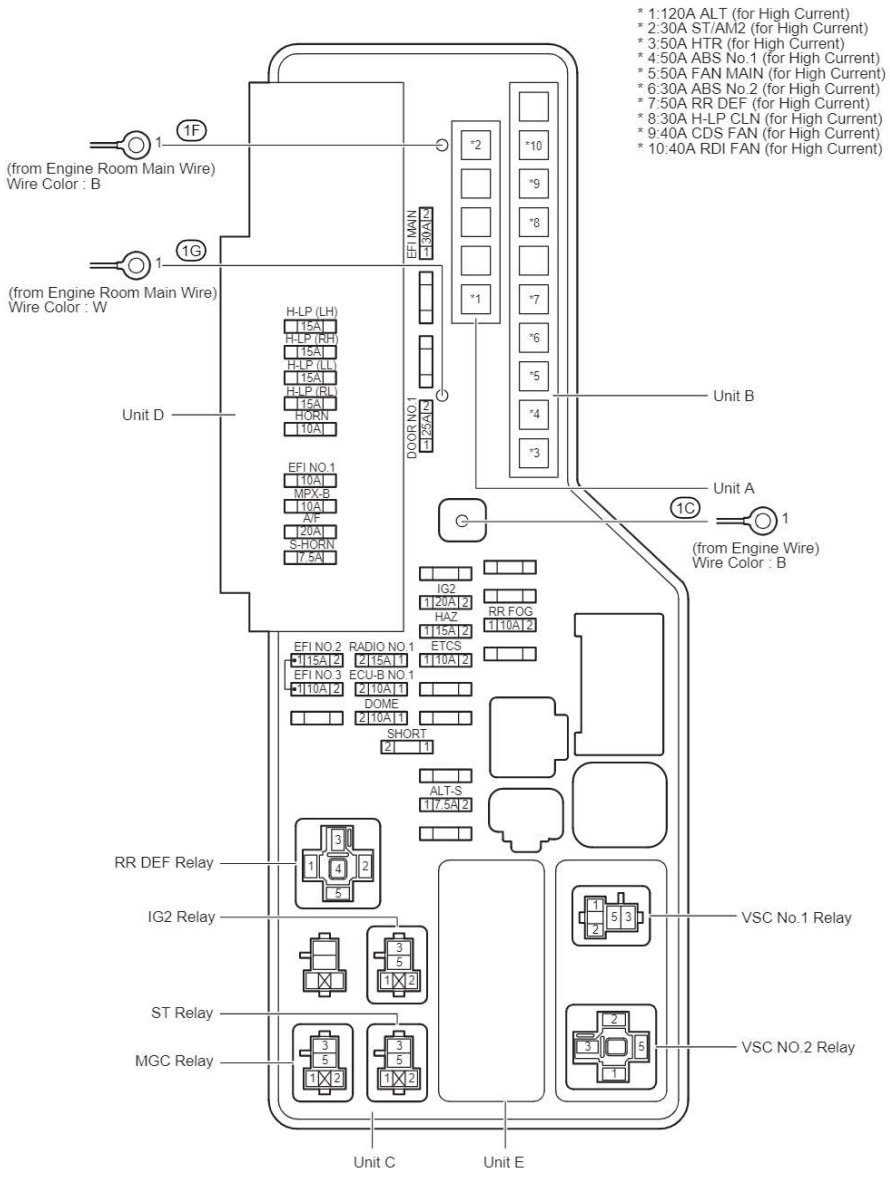
F RELAY LOCATIONS

[Body]

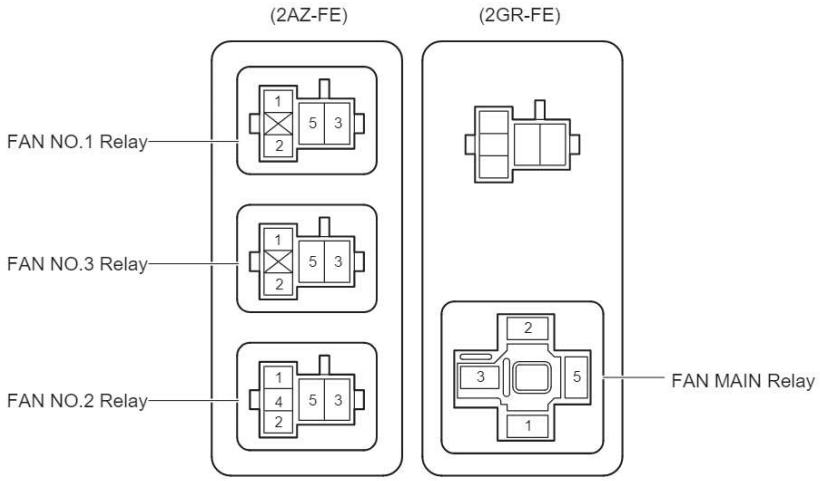


F RELAY LOCATIONS

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



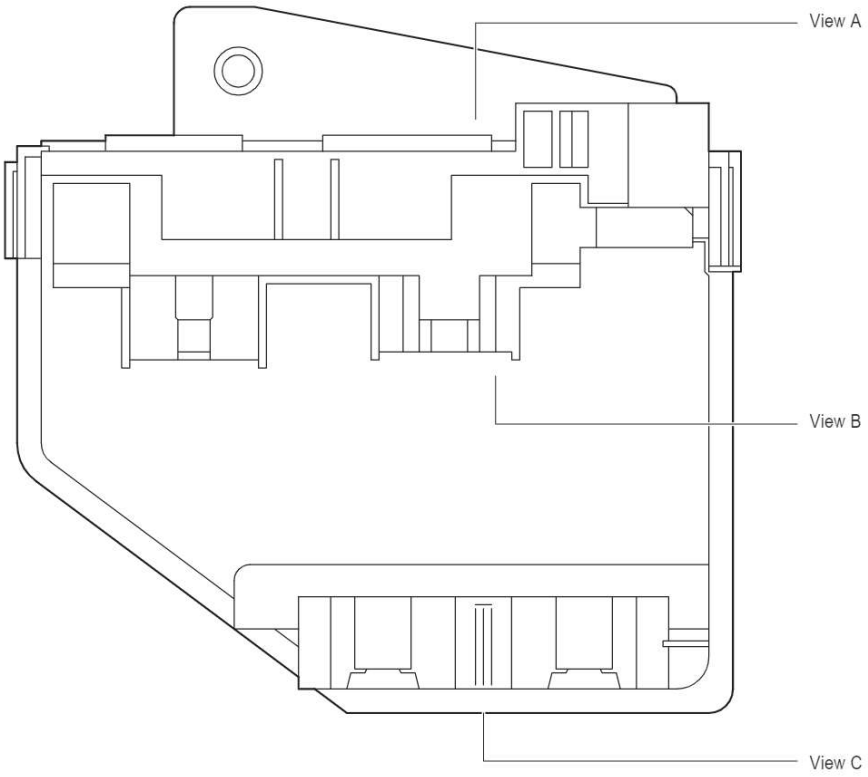
Unit E

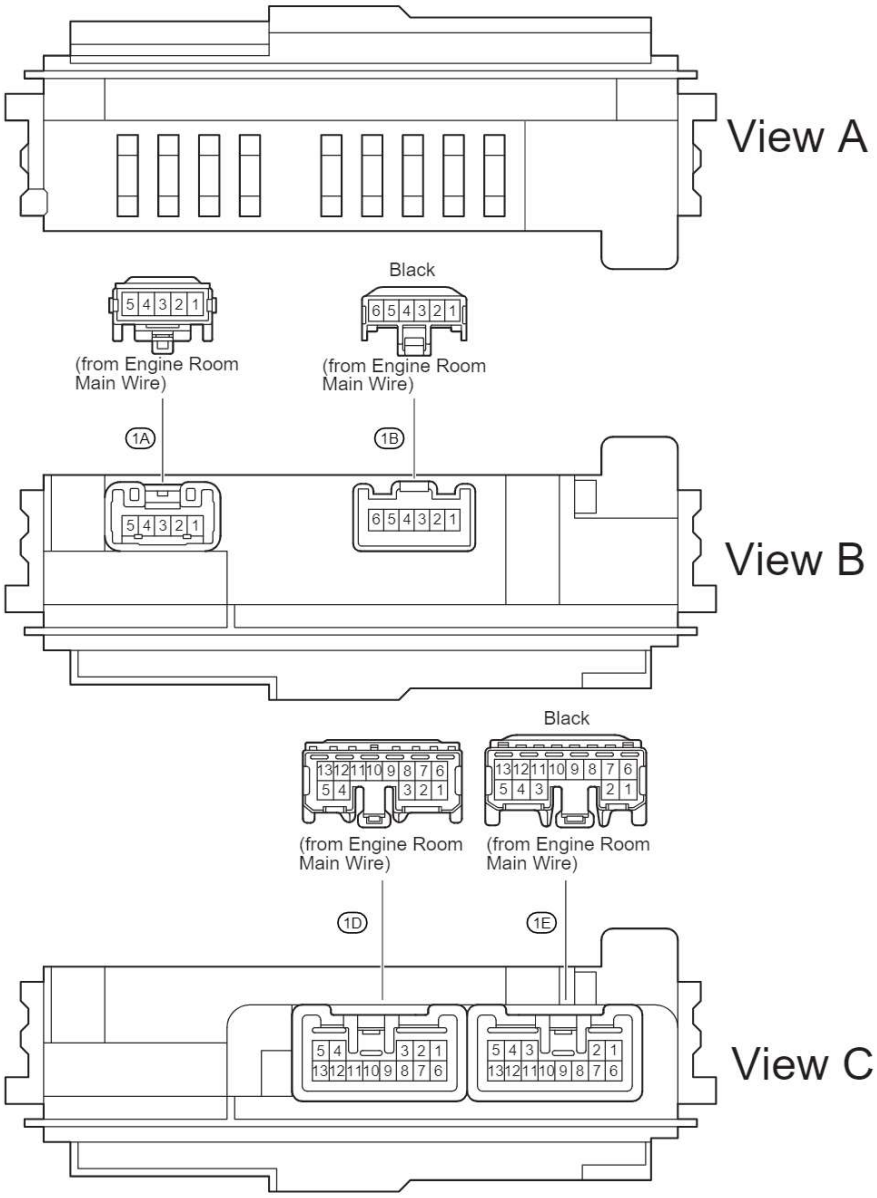

(2AZ-FE)
(2GR-FE)
FAN NO.1 Relay
FAN NO.3 Relay
FAN NO.2 Relay
FAN MAIN Relay
1
2
3
4
5

F RELAY LOCATIONS

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

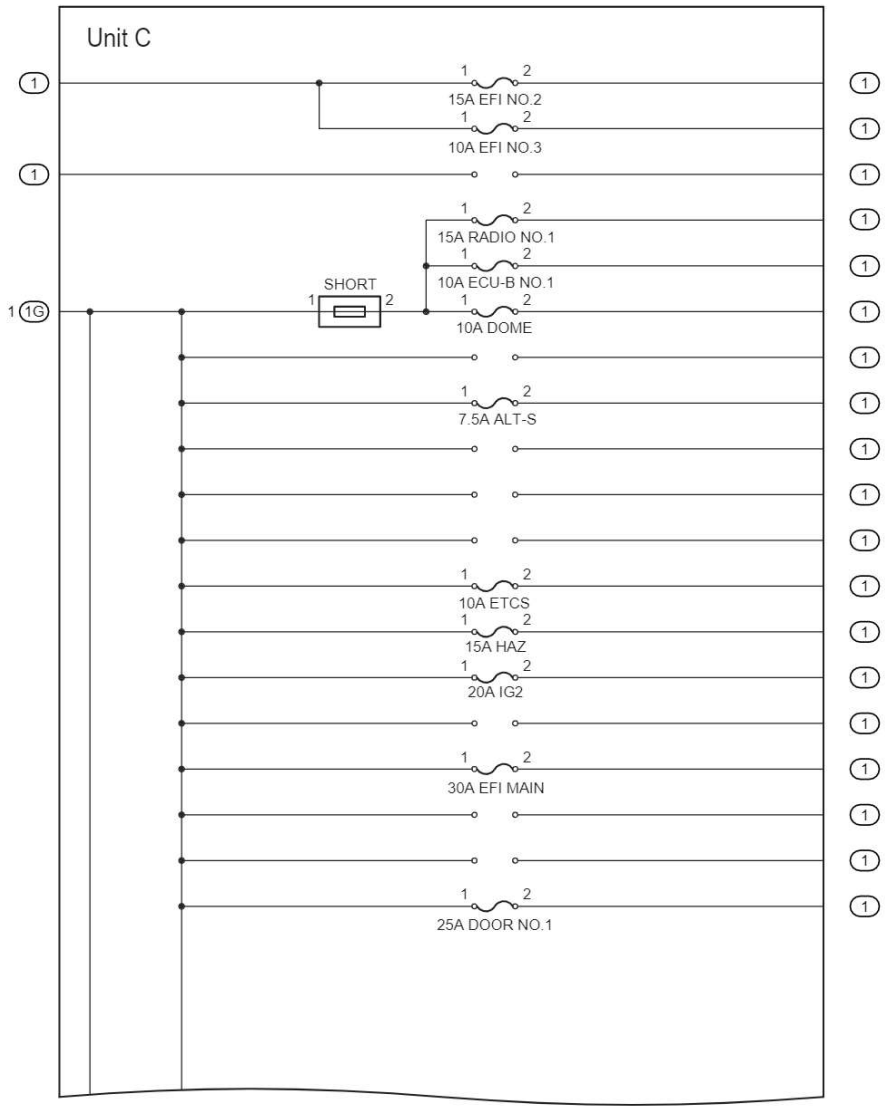
Unit D



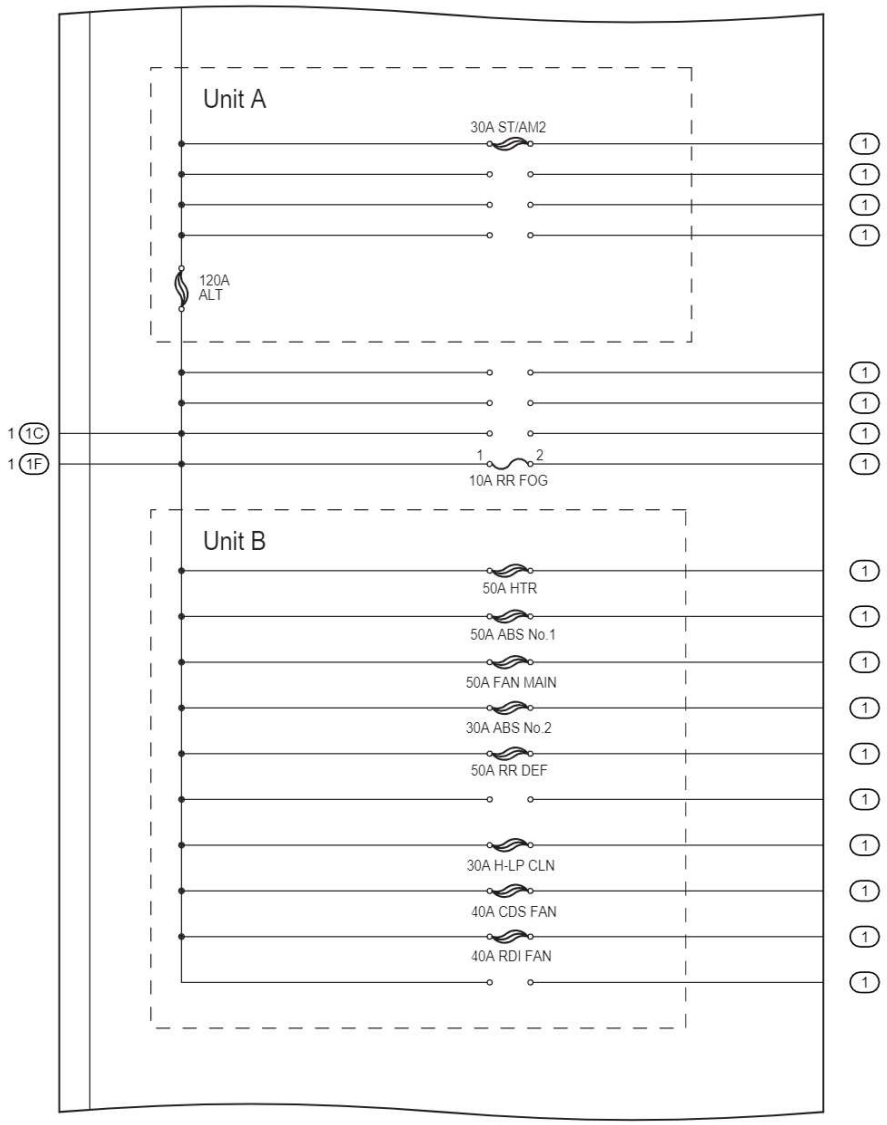

View A
Black
5 4 3 2 1
6 5 4 3 2 1
(from Engine Room Main Wire)
(from Engine Room Main Wire)
1A
1B
5 4 3 2 1
6 5 4 3 2 1
View B
Black
13 12 11 10 9 8 7 6
5 4
3 2 1
13 12 11 10 9 8 7 6
5 4 3
2 1
(from Engine Room Main Wire)
(from Engine Room Main Wire)
1D
1E
5 4
13 12 11 10 9 8 7 6
3 2 1
5 4 3
13 12 11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

F RELAY LOCATIONS

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



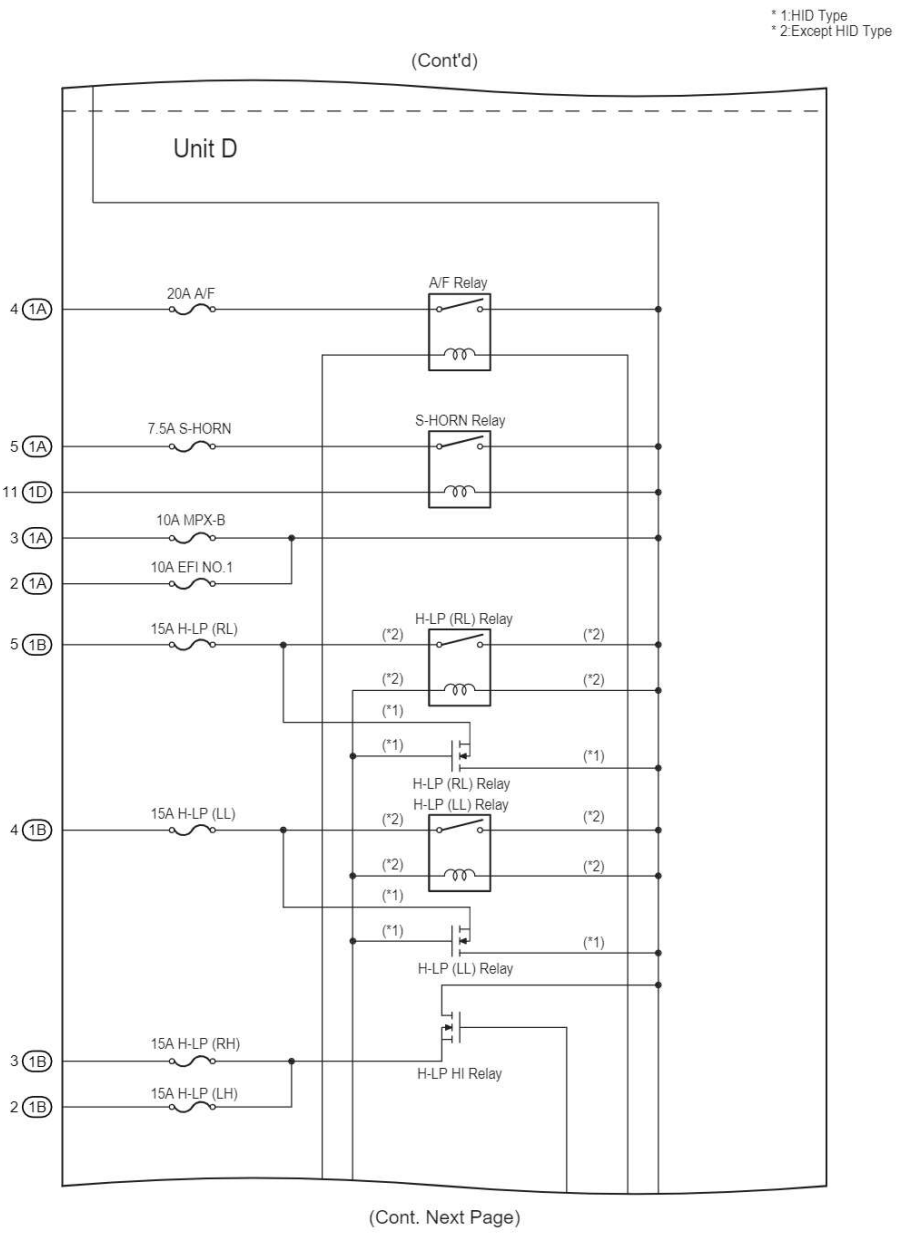
(Cont'd)



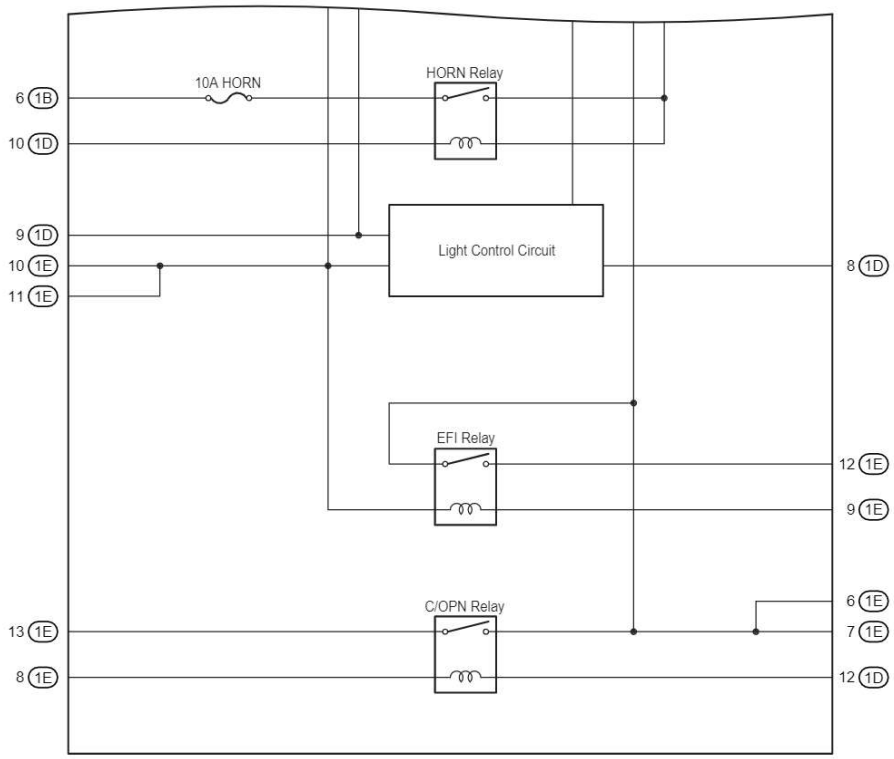
(Cont. Next Page)

F RELAY LOCATIONS

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

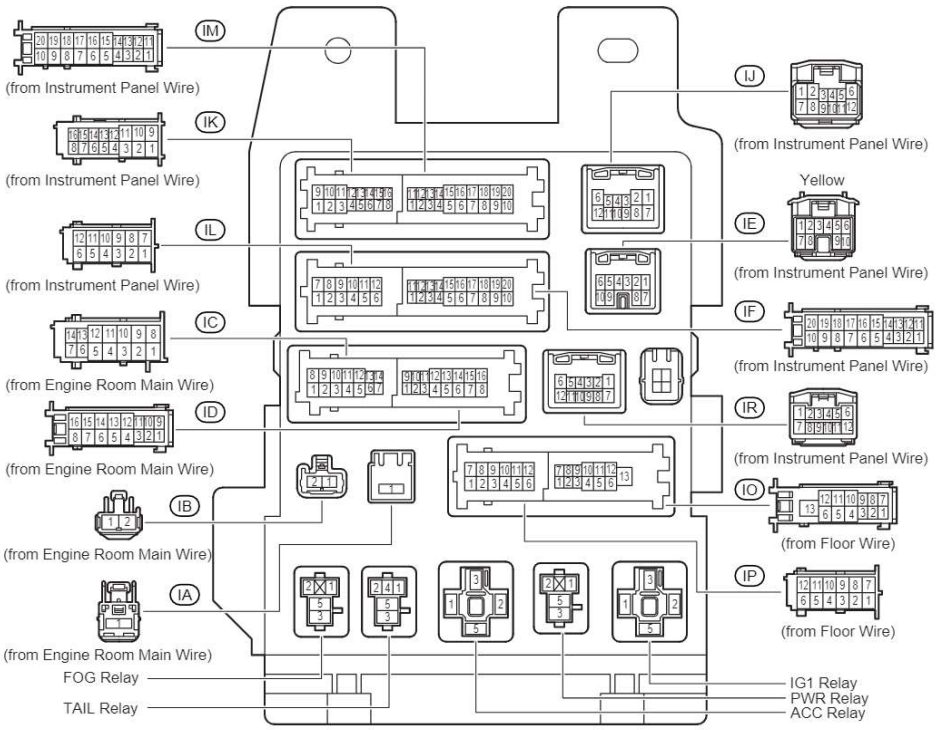


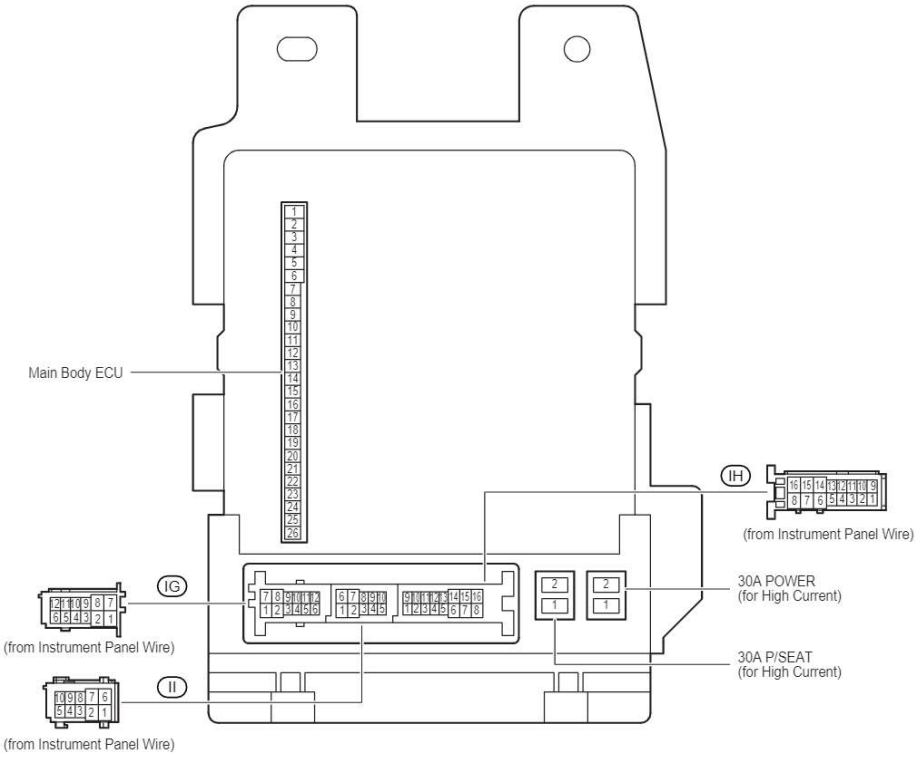
(Cont'd)


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

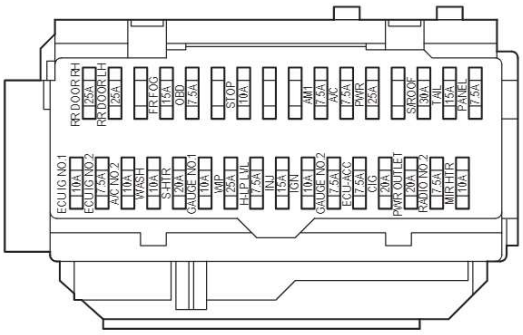
: Instrument Panel J/B	LHD : Lower Finish Panel (See Page 21)
	RHD : Behind the Glove Box (See Page 21)



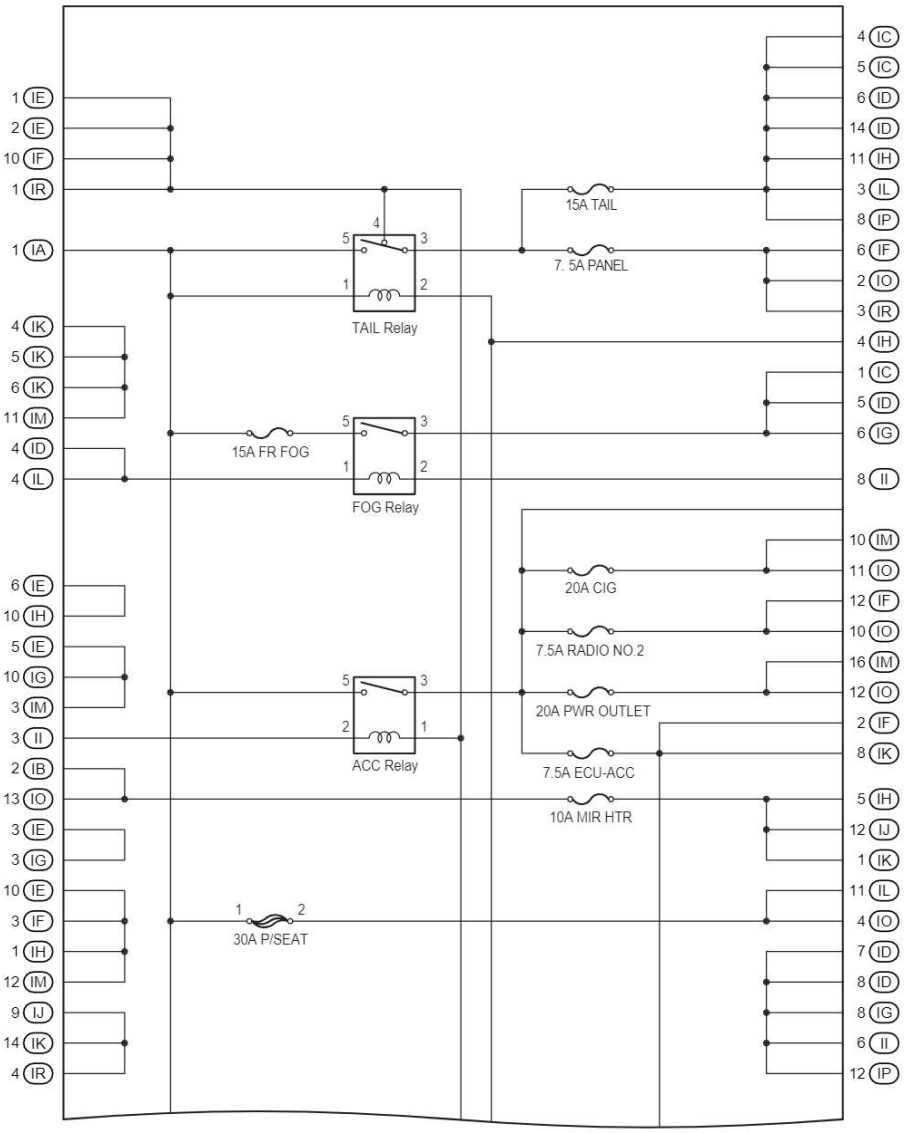

Main Body ECU
IH
(from Instrument Panel Wire)
IG
(from Instrument Panel Wire)
30A POWER
(for High Current)
30A P/SEAT
(for High Current)
II
(from Instrument Panel Wire)

F RELAY LOCATIONS

: Instrument Panel J/B	LHD : Lower Finish Panel (See Page 21)
	RHD : Behind the Glove Box (See Page 21)

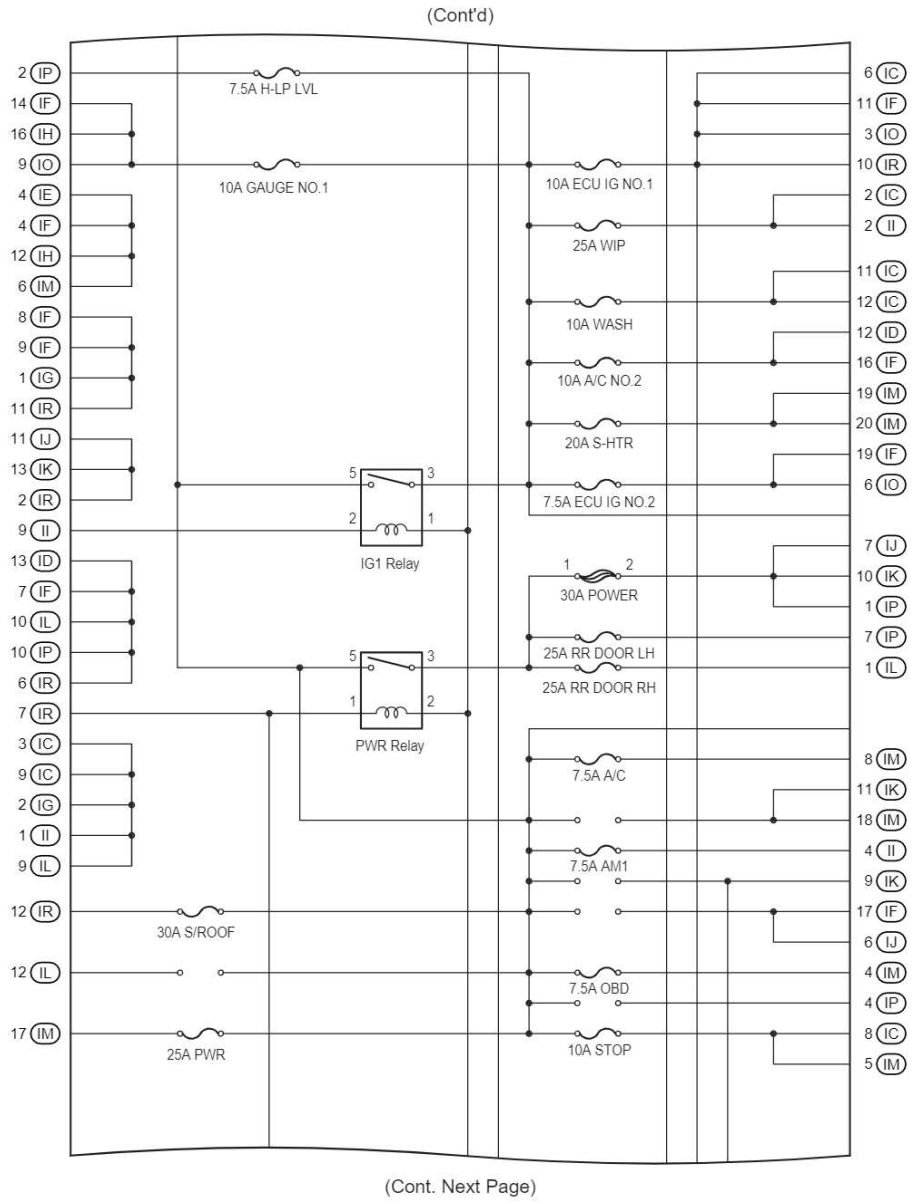


[Instrument Panel J/B Inner Circuit]

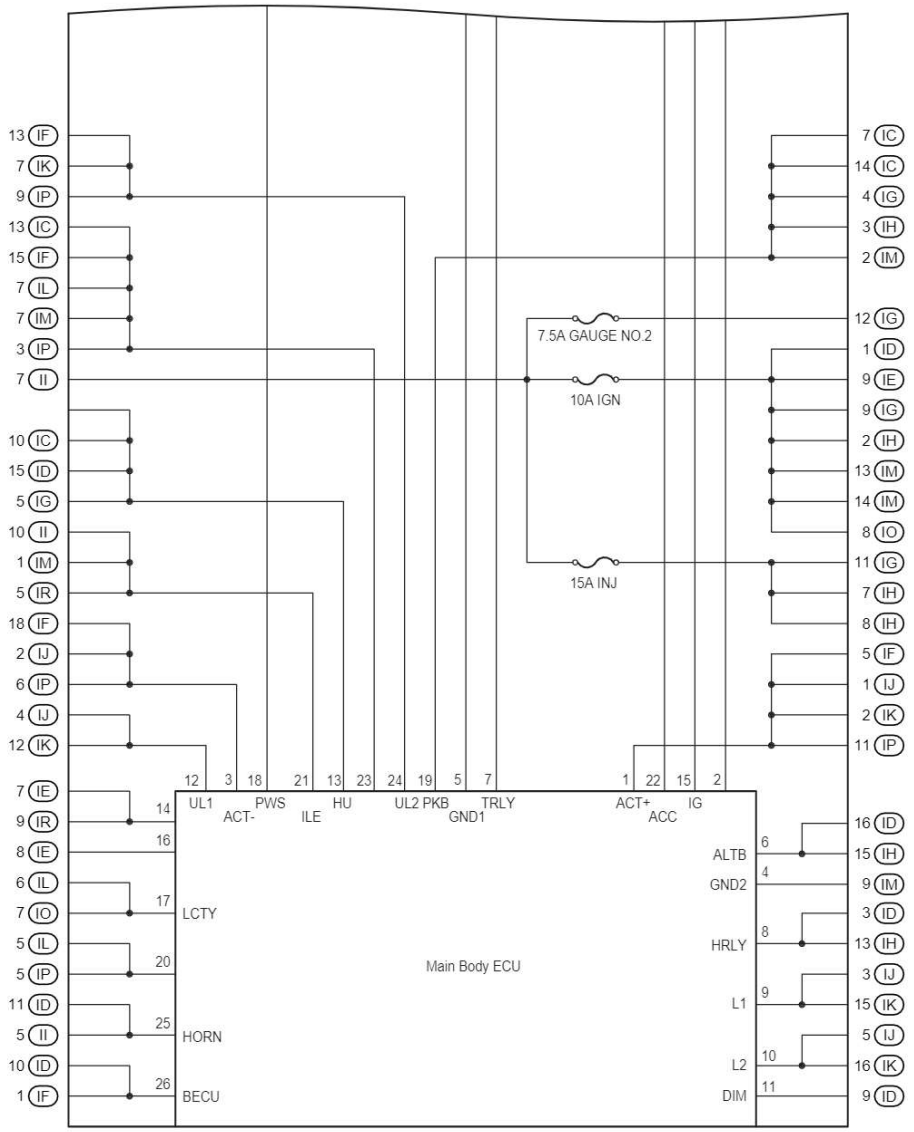


(Cont. Next Page)

[Instrument Panel J/B Inner Circuit]

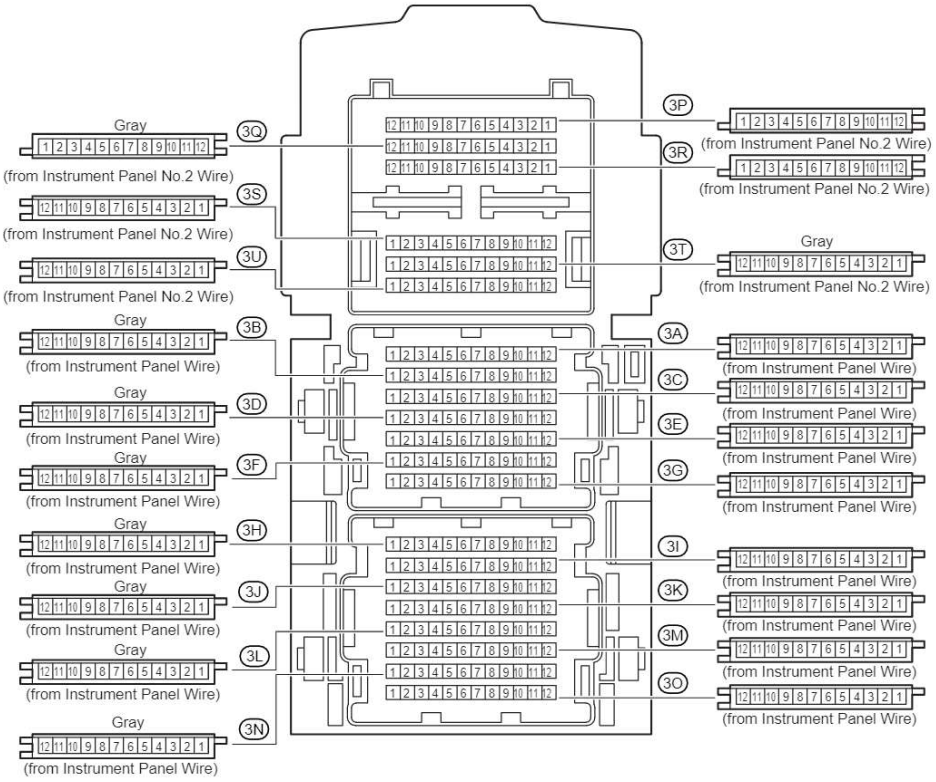


(Cont'd)


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
7.5A GAUGE NO.2
10A IGN
15A INJ
12 3 18 21 13 23 24 19 5 7
UL1 PWS HU UL2 PKB TRLY
ACT- ILE GND1
1 22 15 2
ACT+ IG
ACC
14
16
17
20
25
26
LCTY
HORN
BECU
Main Body ECU
6
4
8
9
10
11
ALTB
GND2
HRLY
L1
L2
DIM
16 ID
15 IH
9 IM
3 ID
13 IH
3 IJ
15 IK
5 IJ
16 IK
9 ID

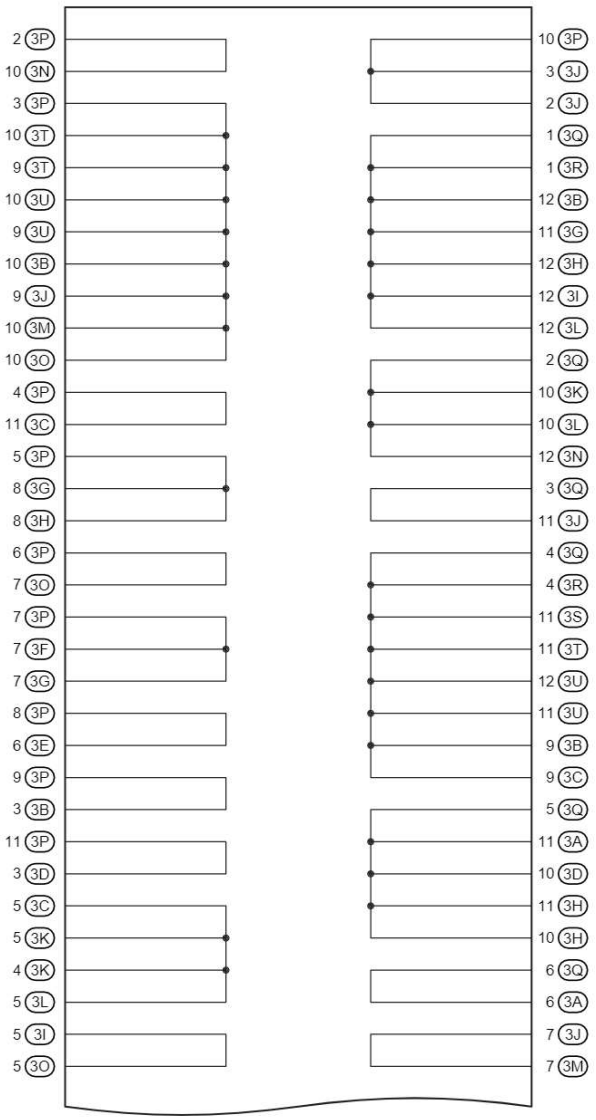
F RELAY LOCATIONS

: J/B No.3	Behind the Combination Meter (See Page 21)



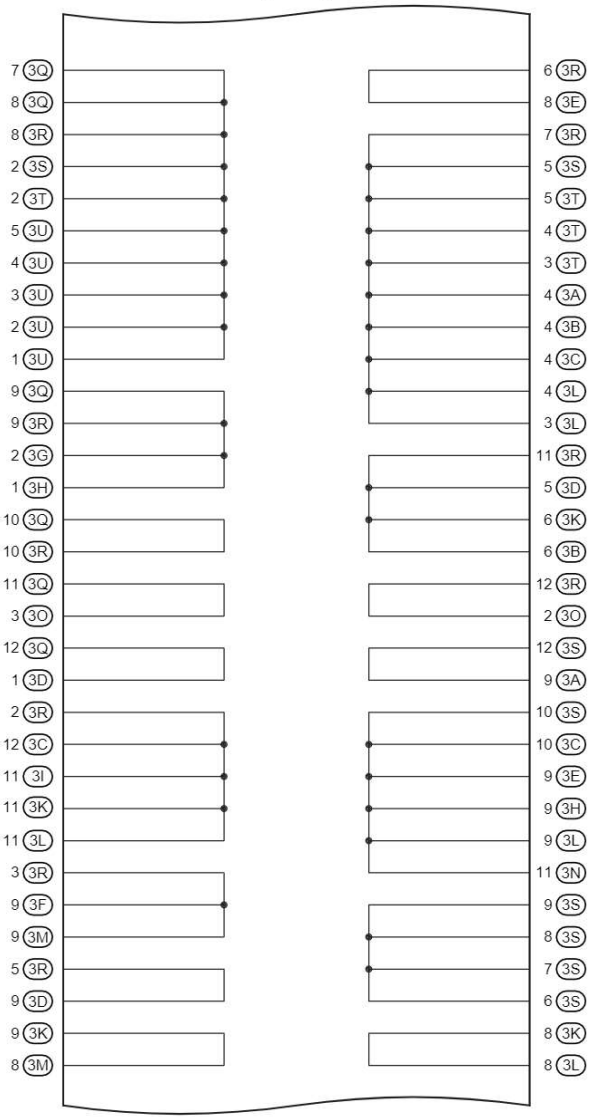
F RELAY LOCATIONS

[J/B No.3 Inner Circuit]



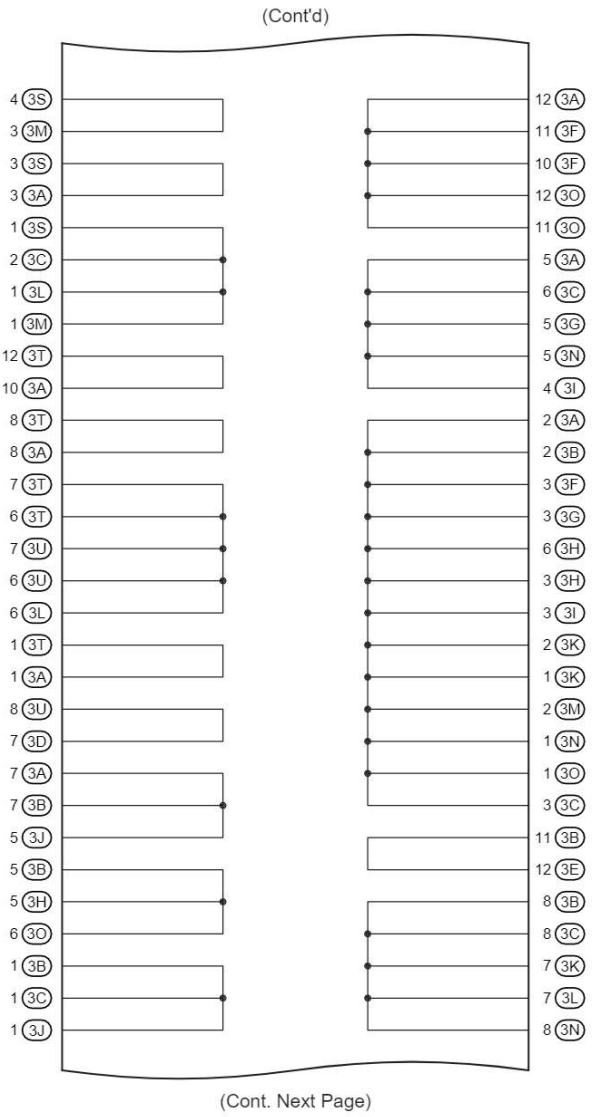
(Cont. Next Page)

(Cont'd)

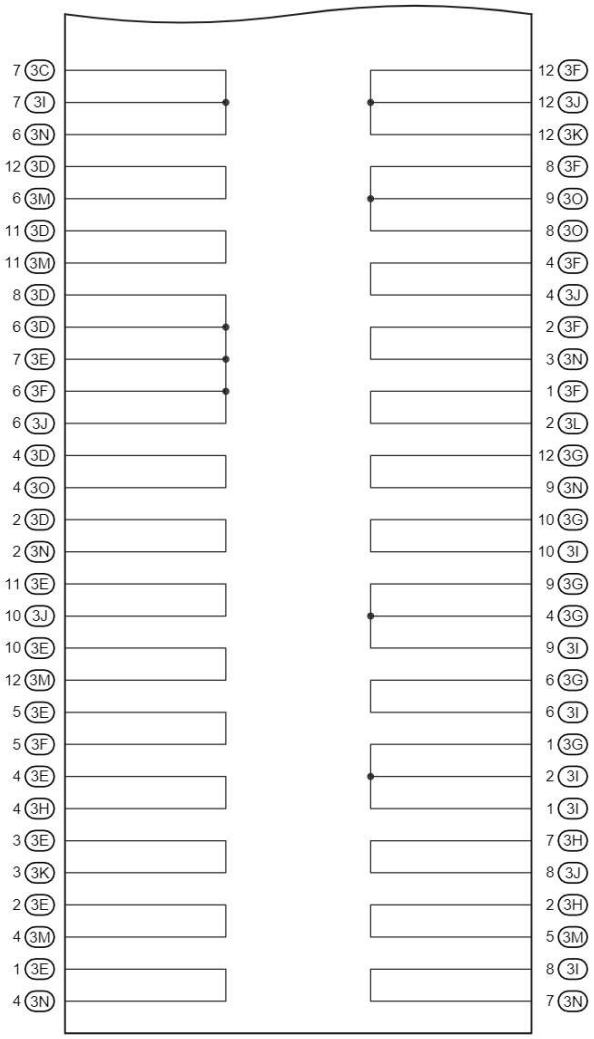


(Cont. Next Page)

[J/B No.3 Inner Circuit]

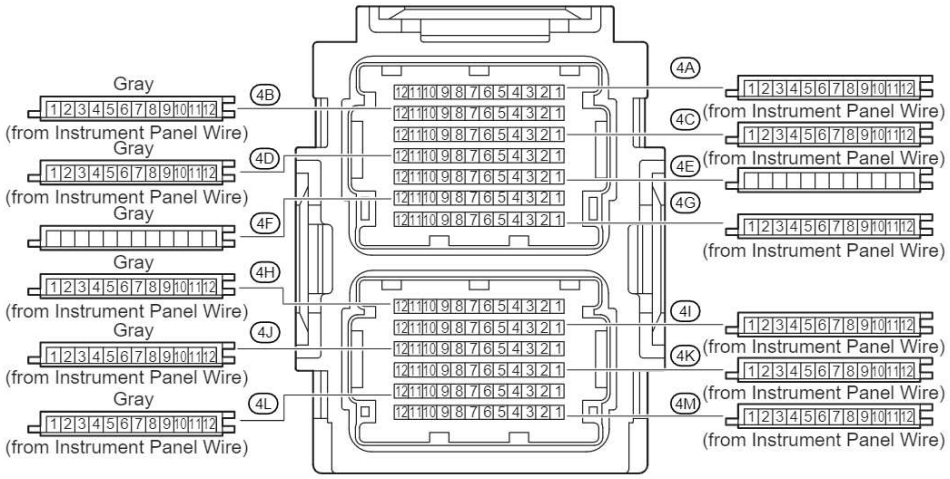


(Cont'd)

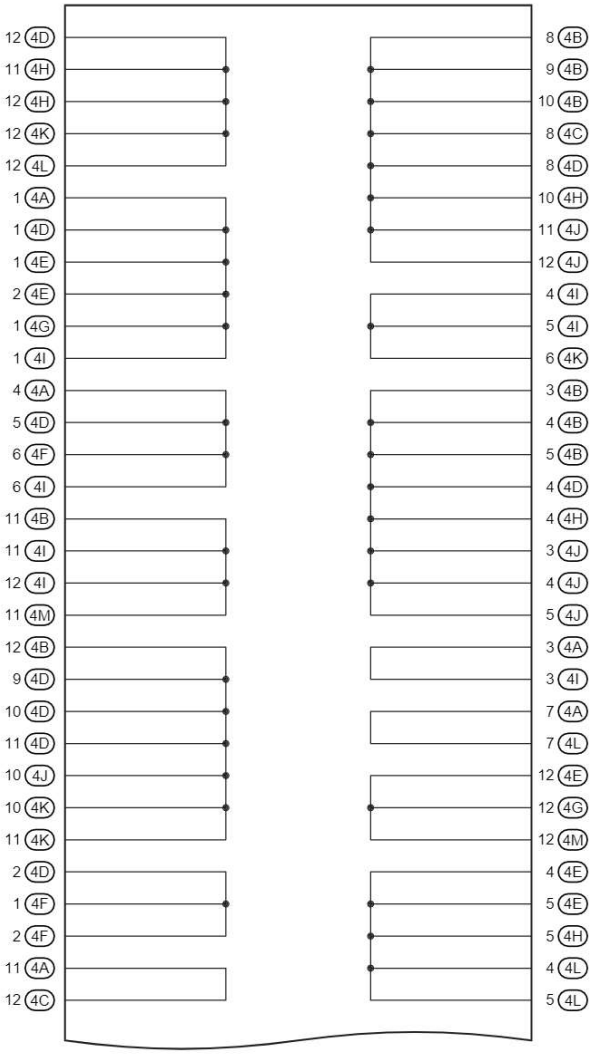

7 3C
7 3I
6 3N
12 3D
6 3M
11 3D
11 3M
8 3D
6 3D
7 3E
6 3F
6 3J
4 3D
4 3O
2 3D
2 3N
11 3E
10 3J
10 3E
12 3M
5 3E
5 3F
4 3E
4 3H
3 3E
3 3K
2 3E
4 3M
1 3E
4 3N
12 3F
12 3J
12 3K
8 3F
9 3O
8 3O
4 3F
4 3J
2 3F
3 3N
1 3F
2 3L
12 3G
9 3N
10 3G
10 3I
9 3G
4 3G
9 3I
6 3G
6 3I
1 3G
2 3I
1 3I
7 3H
8 3J
2 3H
5 3M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

F RELAY LOCATIONS

: J/B No.4	Instrument Panel Brace Center (See Page 21)

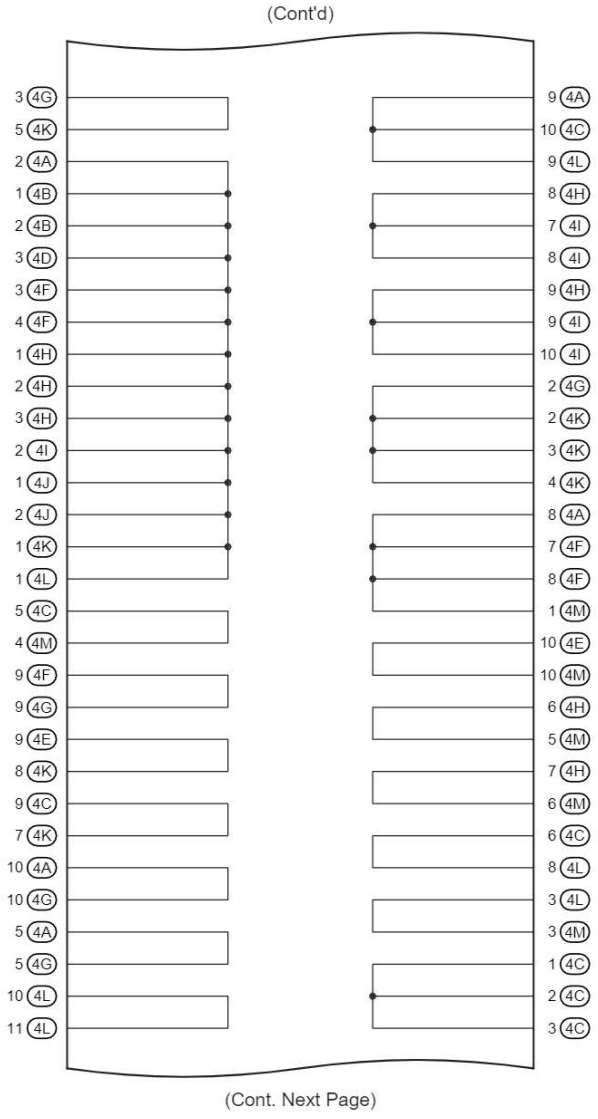


[J/B No.4 Inner Circuit]

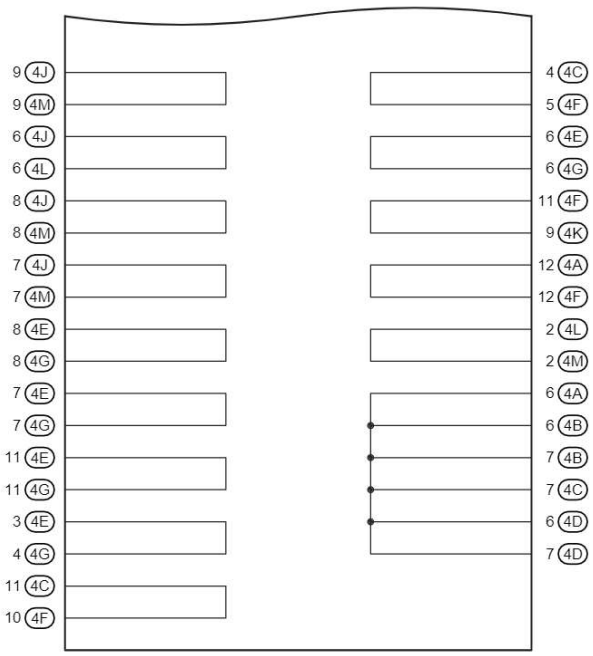


(Cont. Next Page)

[J/B No.4 Inner Circuit]

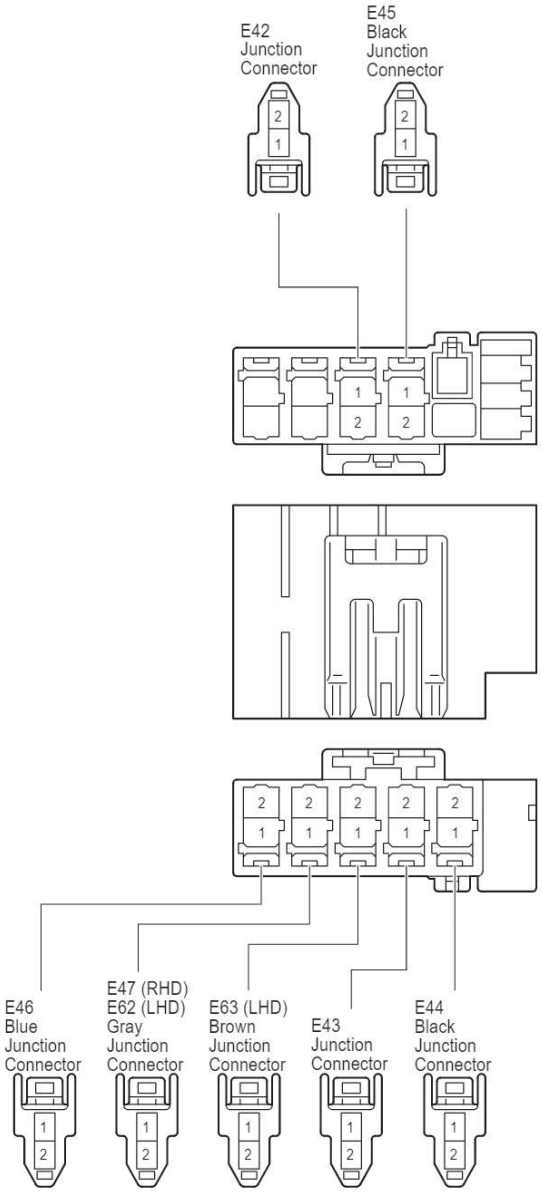


(Cont'd)

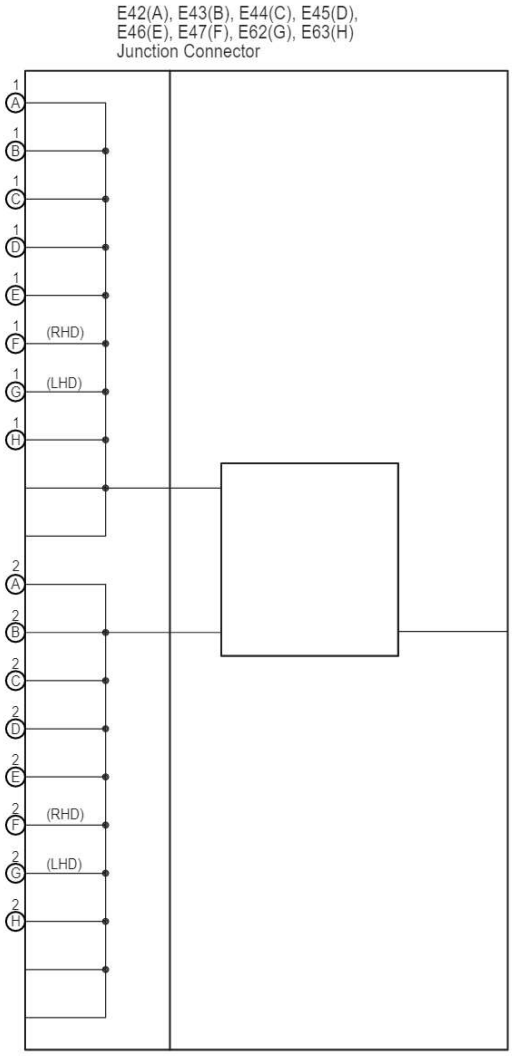

9 4J
9 4M
6 4J
6 4L
8 4J
8 4M
7 4J
7 4M
8 4E
8 4G
7 4E
7 4G
11 4E
11 4G
3 4E
4 4G
11 4C
10 4F
4 4C
5 4F
6 4E
6 4G
11 4F
9 4K
12 4A
12 4F
2 4L
2 4M
6 4A
6 4B
7 4B
7 4C
6 4D
7 4D

F RELAY LOCATIONS

Junction Connector (CAN)	Instrument Panel Center (See Page 21)

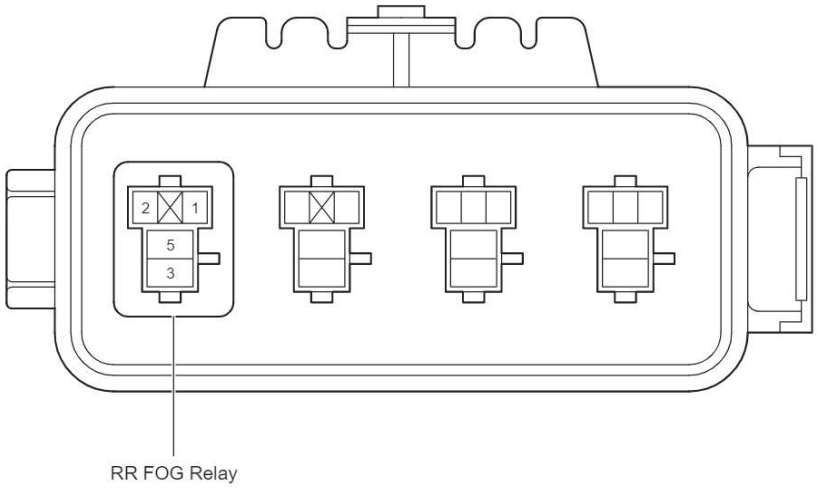


[Junction Connector (CAN) Inner Circuit]



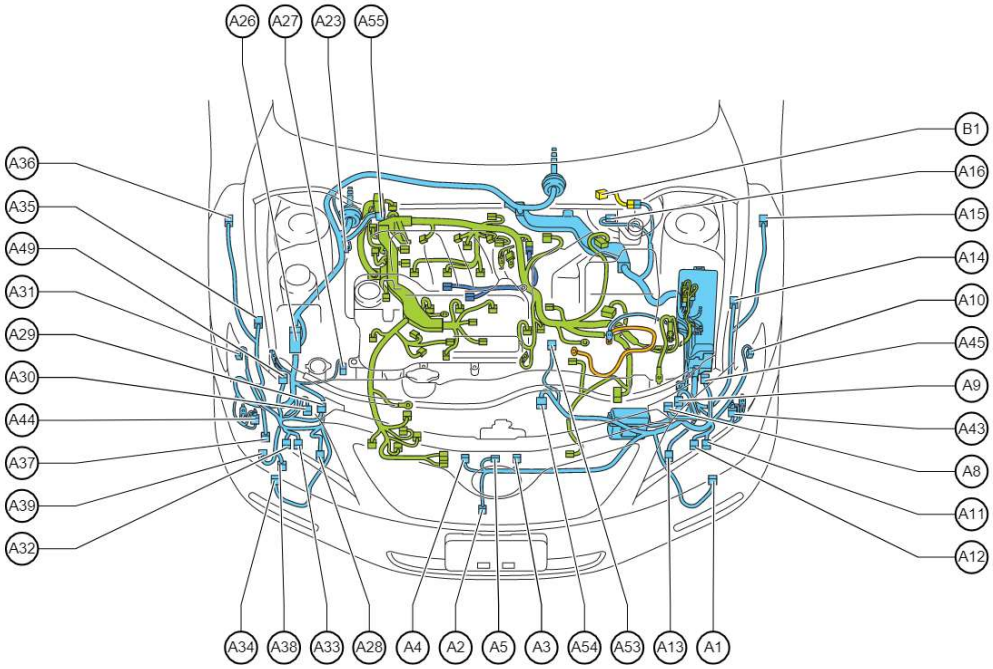
F RELAY LOCATIONS

② : Engine Room R/B No.2	Left Side of the Radiator Support (See Page 20)



Position of Parts in Engine Compartment

[LHD : 2GR–FE]

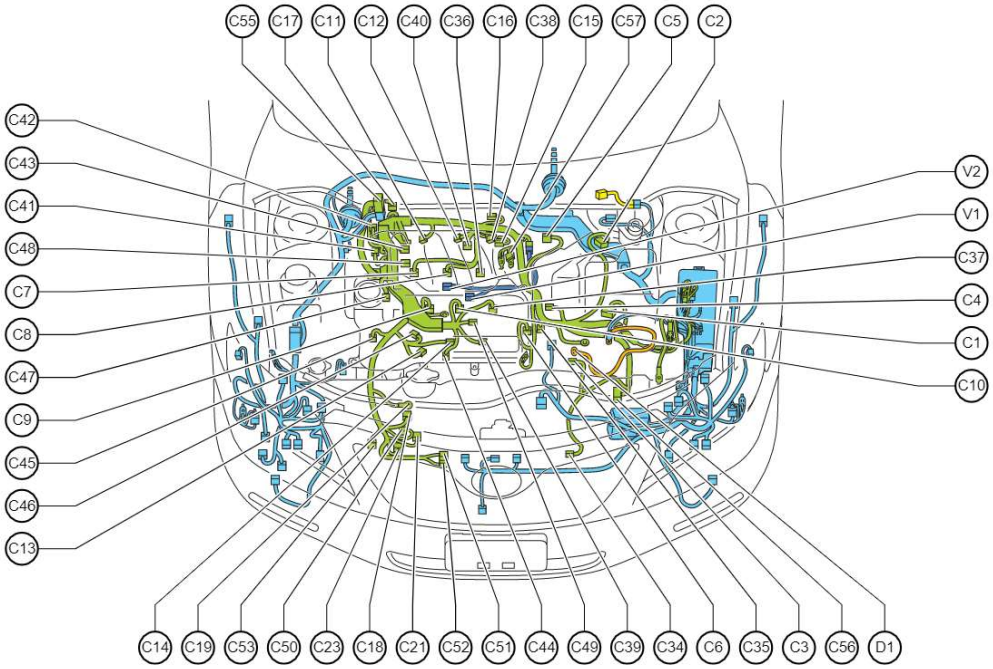


A 1 Fog Lamp (Front LH)
A 2 Ambient Temp. Sensor
A 3 Horn (High)
A 4 Horn (Low)
A 5 Engine Hood Courtesy SW
A 8 Headlamp (LH High)
A 9 Clearance Lamp (Front LH)
A10 Turn Signal Lamp (Front LH)
A11 Headlamp Assembly (LH)
A12 Headlamp Leveling Motor (LH)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A15 Turn Signal Lamp (Front Side LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A26 Skid Control ECU with Actuator
A27 A/C Pressure Sensor
A28 Airbag Sensor (Front RH)
A29 Headlamp (RH High)
A30 Clearance Lamp (Front RH)
A31 Turn Signal Lamp (Front RH)
A32 Headlamp Assembly (RH)
A33 Headlamp Leveling Motor (RH)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A36 Turn Signal Lamp (Front Side RH)
A37 Windshield Washer Motor
A38 Headlamp Cleaner Motor
A39 Headlamp Cleaner Control Relay
A43 Junction Connector
A44 Junction Connector
A45 Headlamp (LH Low)
A49 Headlamp (RH Low)
A53 VSV (Air Intake Control)
A54 Cooling Fan ECU
A55 Engine ECU

B 1 Windshield Wiper Motor

Position of Parts in Engine Compartment

[LHD : 2GR–FE]



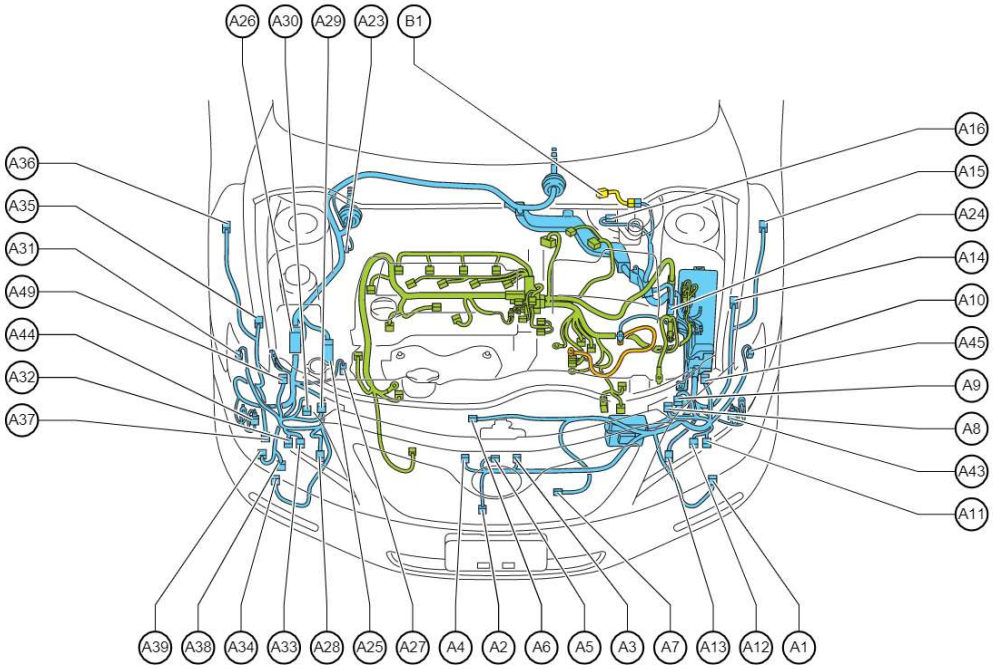
C 1 Park/Neutral Position SW
C 2 Air Flow Meter
C 3 Starter
C 4 EFI Water Temp. Sensor
C 5 Throttle Body Assembly
C 6 VSV (Purge)
C 7 Fuel Injector (No.1)
C 8 Fuel Injector (No.3)
C 9 Fuel Injector (No.2)
C10 Fuel Injector (No.4)
C11 Ignition Coil (No.1)
C12 Ignition Coil (No.3)
C13 Ignition Coil (No.2)
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 Alternator
C19 Alternator
C21 A/C Compressor
C23 Engine Oil Pressure SW
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 (Bank 1 Exhaust Side)
C43 Camshaft Timing Oil Control Valve (Bank 1 Intake Side)
C44 VVT Sensor (Bank 2 Exhaust Side)
C45 VVT Sensor (Bank 2 Intake Side)
C46 Camshaft Timing Oil Control Valve (Bank 2 Exhaust Side)
C47 Camshaft Timing Oil Control Valve (Bank 2 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 ECU
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

[LHD : 2AZ–FE]

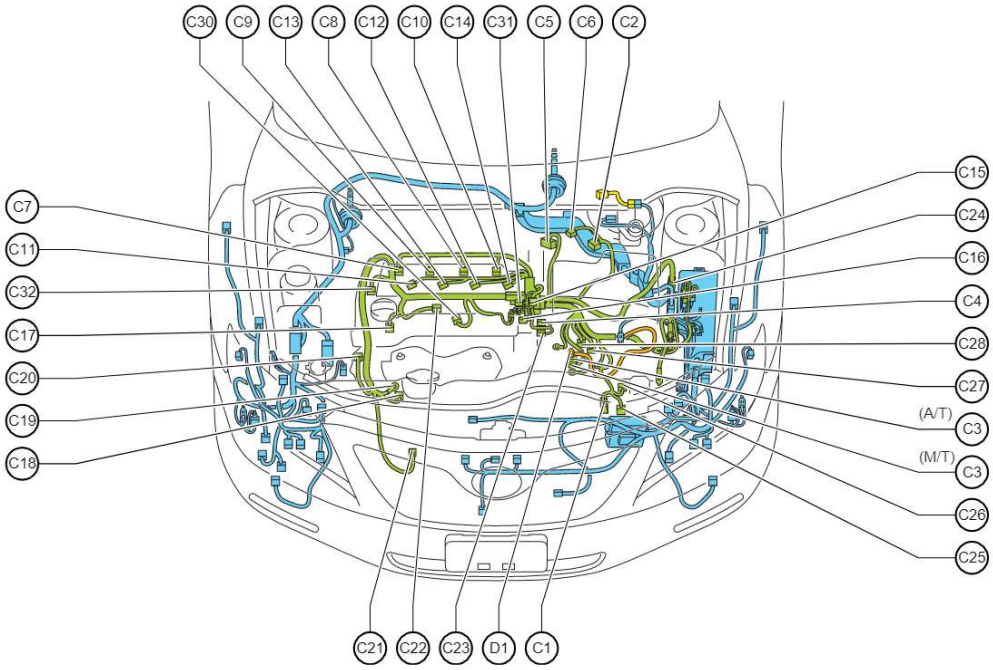


A 1 Fog Lamp (Front LH)
A 2 Ambient Temp. Sensor
A 3 Horn (High)
A 4 Horn (Low)
A 5 Engine Hood Courtesy SW
A 6 A/C Condenser Fan Motor
A 7 Radiator Fan Motor
A 8 Headlamp (LH High)
A 9 Clearance Lamp (Front LH)
A10 Turn Signal Lamp (Front LH)
A11 Headlamp Assembly (LH)
A12 Headlamp Leveling Motor (LH)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A15 Turn Signal Lamp (Front Side LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A24 Engine ECU
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)
A30 Clearance Lamp (Front RH)
A31 Turn Signal Lamp (Front RH)
A32 Headlamp Assembly (RH)
A33 Headlamp Leveling Motor (RH)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A36 Turn Signal Lamp (Front Side RH)
A37 Windshield Washer Motor
A38 Headlamp Cleaner Motor
A39 Headlamp Cleaner Control Relay
A43 Junction Connector
A44 Junction Connector
A45 Headlamp (LH Low)
A49 Headlamp (RH Low)

B 1 Windshield Wiper Motor

Position of Parts in Engine Compartment

[LHD : 2AZ–FE]

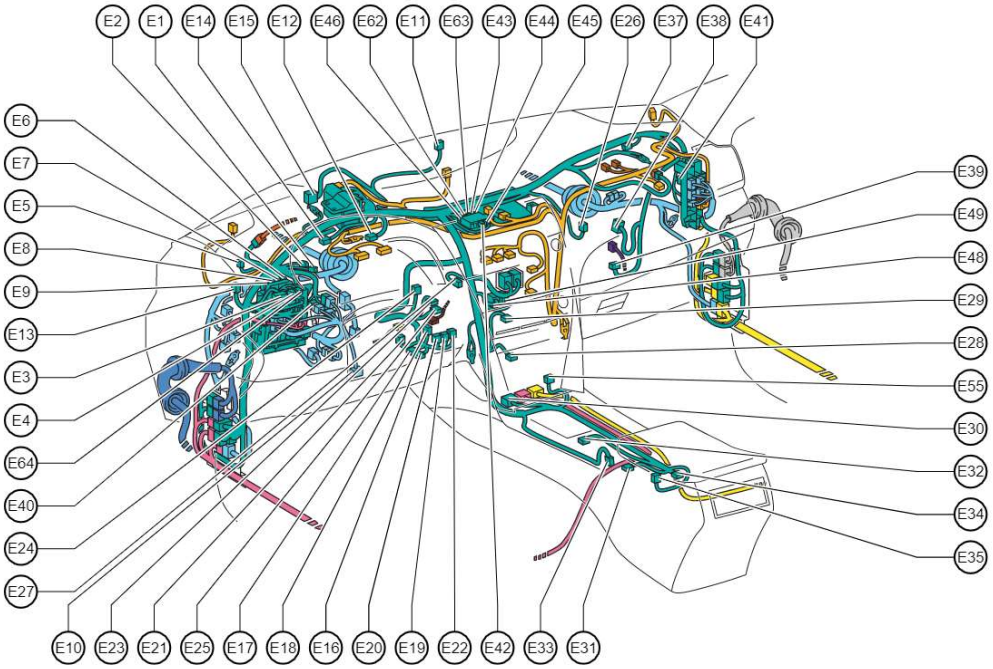


C 1 Park/Neutral Position SW
C 2 Air Flow Meter
C 3 Starter
C 4 EFI Water Temp. Sensor
C 5 Throttle Body Assembly
C 6 VSV (Purge)
C 7 Fuel Injector (No.1)
C 8 Fuel Injector (No.3)
C 9 Fuel Injector (No.2)
C10 Fuel Injector (No.4)
C11 Ignition Coil (No.1)
C12 Ignition Coil (No.3)
C13 Ignition Coil (No.2)
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 Alternator
C19 Alternator
C20 Crankshaft Position Sensor
C21 A/C Compressor
C22 Heated Oxygen Sensor (Bank 1 Sensor 2)
C23 Engine Oil Pressure SW
C24 Engine ECU
C25 ECT Solenoid
C26 Transmission Revolution Sensor (Turbine)
C27 Transmission Revolution Sensor (Counter Gear)
C28 Back–Up Lamp SW
C30 Knock Control Sensor (Bank 1)
C31 Camshaft Position Sensor
C32 Camshaft Timing Oil Control Valve

D 1 Starter

Position of Parts in Instrument Panel

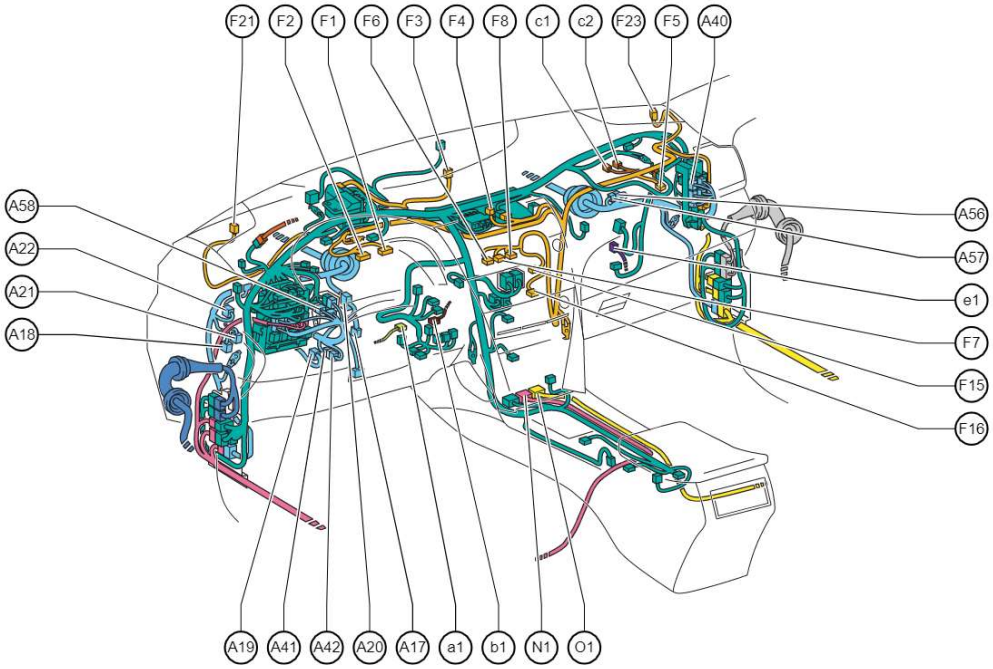
[LHD]



E 1 Diode (Door Courtesy Rear LH)
E 2 Diode (Door Courtesy Rear RH)
E 3 Outer Mirror SW
E 4 Headlamp Cleaner 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
E10 DLC3
E11 Automatic Light Control Sensor
E12 Ion Generator
E13 VSC Warning Buzzer
E14 Turn Signal Flasher
E15 Transponder Key ECU
E16 Airbag Squib (Steering Wheel Pad)
E17 Steering Sensor
E18 Spiral Cable
E19 Windshield Wiper SW Assembly
E20 Windshield Wiper SW Assembly
E21 Headlamp Dimmer SW Assembly
E22 Unlock Warning SW
E23 Ignition SW
E24 Key Interlock Solenoid
E25 Transponder Key Amplifier
E26 Windshield Wiper Relay
E27 A/C Room Temp. Sensor
E28 Cigarette Lighter
E29 Power Outlet Socket (Front)
E30 Airbag Sensor Assembly Center
E31 Transmission Control SW
E32 Shift Lock Control ECU
E33 Parking Brake SW
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
E55 Seat Heater SW
E62 Junction Connector
E63 Junction Connector
E64 Headlamp Leveling SW

Position of Parts in Instrument Panel

[LHD]



A17 Accelerator Position Sensor
A18 Parking Brake SW
A19 Stop Lamp SW
A20 Headlamp Leveling ECU
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

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 15 Antenna Amplifier
F 16 A/C Control Assembly
F 21 Tweeter (Front LH)
F 23 Tweeter (Front RH)

N 1 Airbag Sensor Assembly Center

O 1 Airbag Sensor Assembly Center

a 1 Spiral Cable
Steering Pad SW

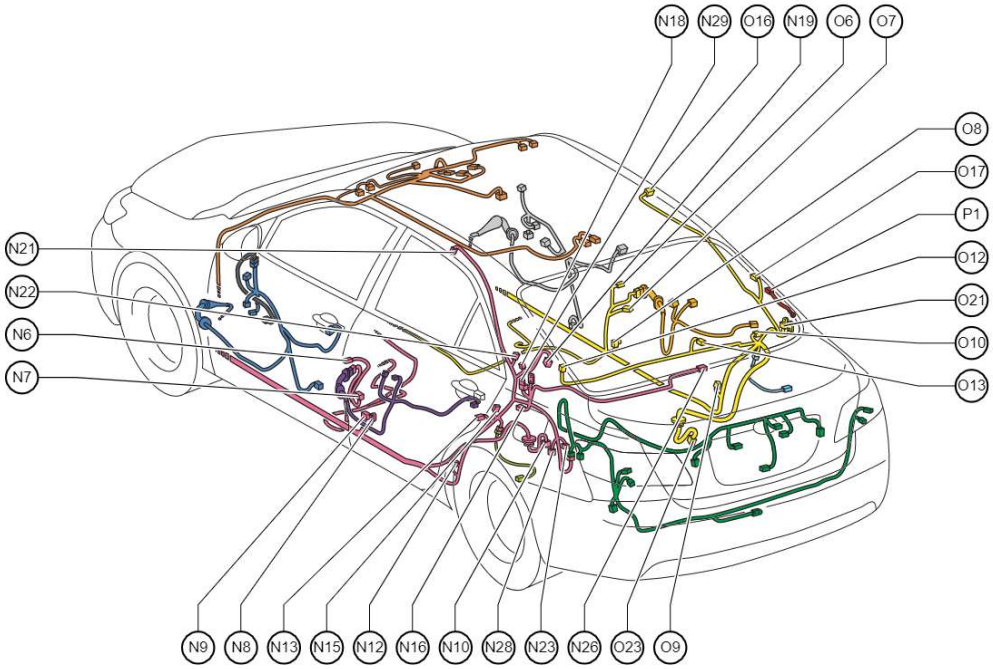
b 1 Cruise Control SW
Spiral Cable

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

[LHD]



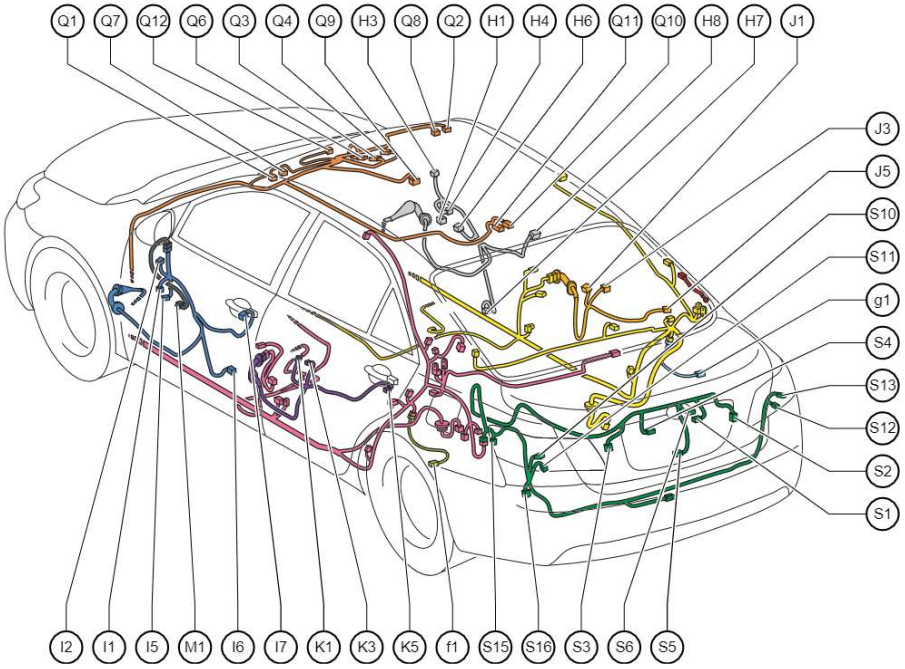
N 6 Door Courtesy SW (Front LH)
N 7 Side Airbag Sensor (Front LH)
N 8 Pretensioner (LH)
N 9 Tension Reducer (LH)
N10 Fuel Suction Pump and Gage Assembly
N12 Side Airbag Sensor (Rear LH)
N13 Door Courtesy SW (Rear LH)
N15 Noise Filter (Dome and Stop)
N16 Center Stop Lamp
N18 Noise Filter (Rear Window Defogger)
N19 Rear Window Defogger
N21 Curtain Shield Airbag Squib (LH)
N22 Rear Window Defogger
N23 Diode (Luggage Compartment Lamp)
N26 Luggage Compartment Lamp
N28 Junction Connector
N29 Junction Connector

O 6 Door Courtesy SW (Front RH)
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)
O16 Curtain Shield Airbag Squib (RH)
O17 Door Control Receiver
O21 Junction Connector
O23 Height Control Sensor

P 1 Rear Window Defogger

Position of Parts in Body

[LHD]



H 1 Speaker (Front Door RH)
H 3 Outer Rear View Mirror (RH)
H 4 Power Window Regulator Motor (Front RH)
H 6 Power Window SW (Front RH)
H 7 Courtesy Lamp (Front Door RH)
H 8 Door Lock Assembly (Front RH)

I 1 Speaker (Front Door LH)
I 2 Outer Rear View Mirror (LH)
I 5 Power Window Regulator Motor (Front LH)
I 6 Courtesy Lamp (Front Door LH)
I 7 Door Lock Assembly (Front LH)

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 4 Rain Sensor
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 Sliding Roof Control ECU and Motor

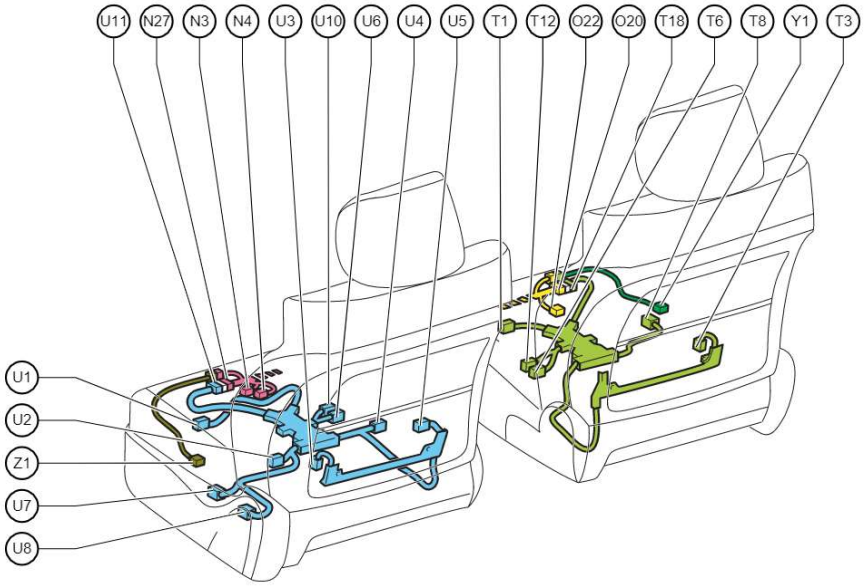
S 1 License Plate Lamp (RH)
S 2 Rear Combination Lamp (RH)
S 3 Rear Combination Lamp (LH)
S 4 License Plate Lamp (LH)
S 5 Door Lock Assembly (Luggage)
S 6 Luggage Compartment Door Lock Cylinder
S10 Turn Signal Lamp (Rear LH)
S11 Rear Combination Lamp (LH)
S12 Rear Combination Lamp (RH)
S13 Turn Signal Lamp (Rear RH)
S15 Junction Connector
S16 Junction Connector

f 1 Speed Sensor (Rear LH)

g 1 Speed Sensor (Rear RH)

Position of Parts in Seat

[LHD]



N 3 Front Seat Inner Belt (Front LH)
N 4 Front Seat Inner Belt (Front LH)
N27 Junction Connector

O20 Junction Connector
O22 Front Seat Inner Belt (Front RH)

T 1 Power Seat Motor (Front RH Seat Slide Control)
T 3 Power Seat Motor (Front RH Seat Reclining Control)
T 6 Seat Heater (RH)
T 8 Power Seat SW (Front RH Seat)
T12 Front Seat Inner Belt (Front RH)
T18 Junction Connector

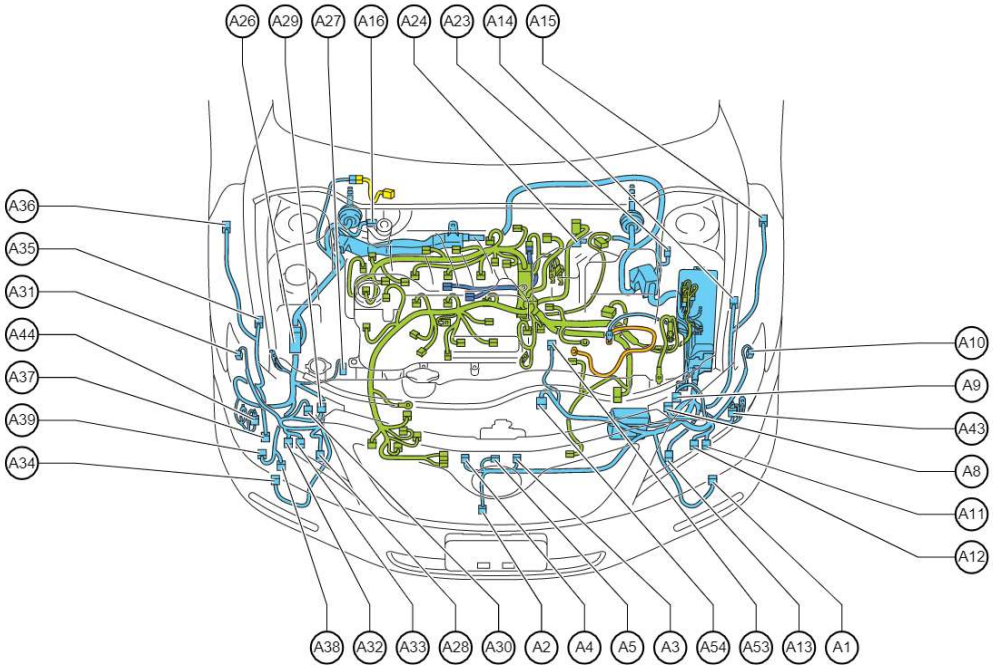
U 1 Power Seat Motor (Front LH Seat Slide Control)
U 2 Power Seat Motor (Front LH Seat Front Vertical Control)
U 3 Power Seat Motor (Front LH Seat Reclining Control)
U 4 Power Seat Motor (Front LH Seat Lifter Control)
U 5 Power Seat Motor
(Front LH Seat Lumbar Support Control)
U 6 Seat Heater (LH)
U 7 Power Seat SW (Front LH Seat)
U 8 Power Seat SW
(Front LH Seat Lumbar Support Control)
U10 Front Seat Inner Belt (Front LH)
U11 Junction Connector

Y 1 Side Airbag Squib (RH)

Z 1 Side Airbag Squib (LH)

Position of Parts in Engine Compartment

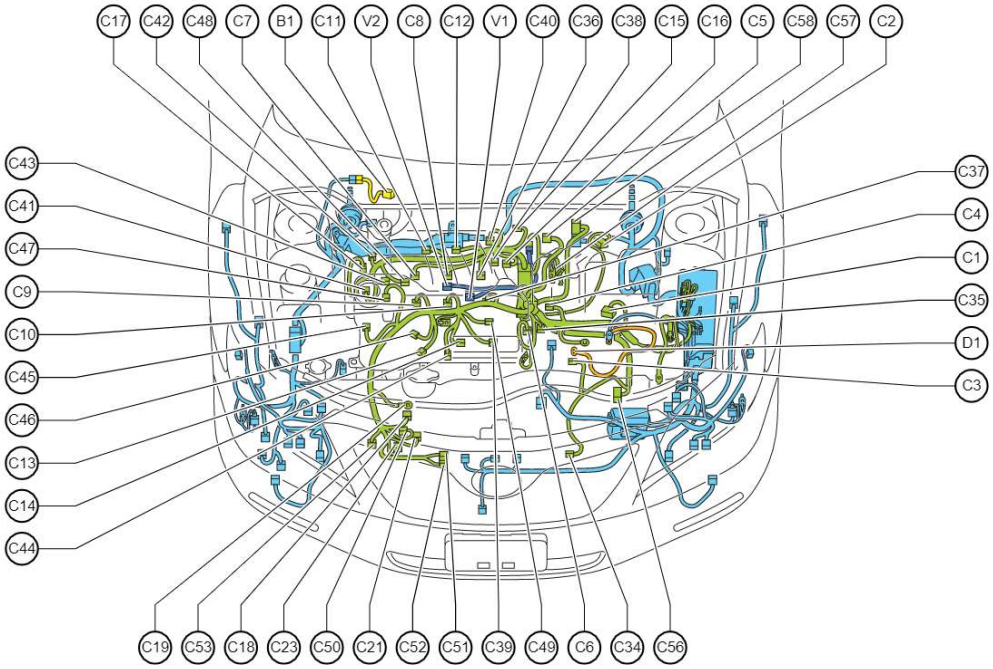
[RHD : 2GR–FE]



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)
A 9 Clearance Lamp (Front LH)
A10 Turn Signal Lamp (Front LH)
A11 Headlamp Assembly (LH)
A12 Headlamp Leveling Motor (LH)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A15 Turn Signal Lamp (Front Side LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A24 Engine ECU
A26 Skid Control ECU with Actuator
A27 A/C Pressure Sensor
A28 Airbag Sensor (Front RH)
A29 Headlamp (RH High)
A30 Clearance Lamp (Front RH)
A31 Turn Signal Lamp (Front RH)
A32 Headlamp Assembly (RH)
A33 Headlamp Leveling Motor (RH)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A36 Turn Signal Lamp (Front Side RH)
A37 Windshield Washer Motor
A38 Headlamp Cleaner Motor
A39 Headlamp Cleaner Control Relay
A43 Junction Connector
A44 Junction Connector
A53 VSV (Air Intake Control)
A54 Cooling Fan ECU

Position of Parts in Engine Compartment

[RHD : 2GR–FE]



B 1 Windshield Wiper Motor

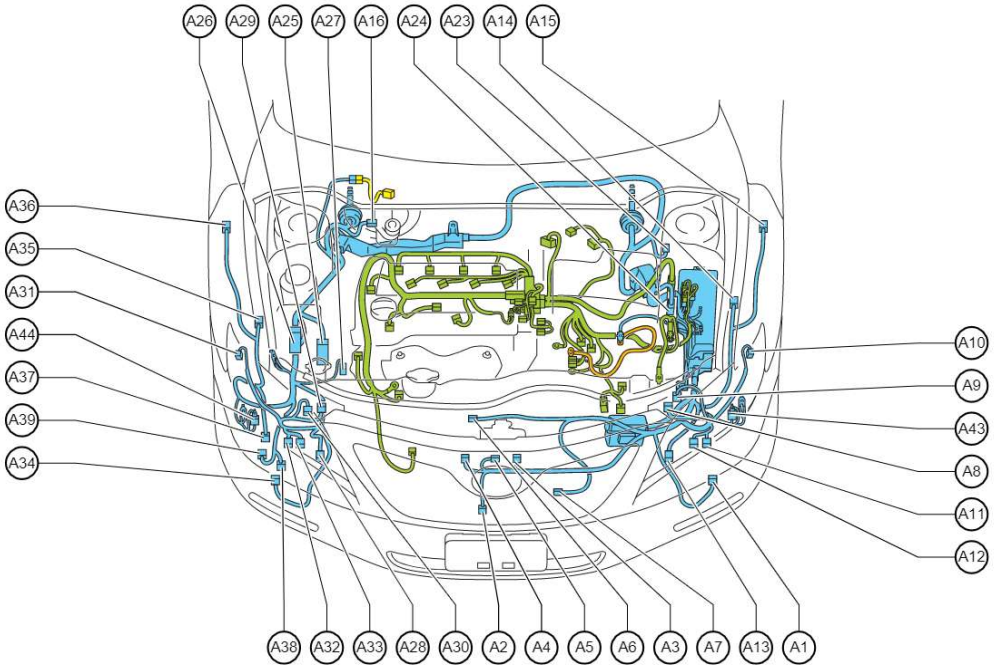
C 1 Park/Neutral Position SW
C 2 Air Flow Meter
C 3 Starter
C 4 EFI Water Temp. Sensor
C 5 Throttle Body Assembly
C 6 VSV (Purge)
C 7 Fuel Injector (No.1)
C 8 Fuel Injector (No.3)
C 9 Fuel Injector (No.2)
C10 Fuel Injector (No.4)
C11 Ignition Coil (No.1)
C12 Ignition Coil (No.3)
C13 Ignition Coil (No.2)
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 Alternator
C19 Alternator
C21 A/C Compressor
C23 Engine Oil Pressure SW
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 (Bank 1 Exhaust Side)
C43 Camshaft Timing Oil Control Valve (Bank 1 Intake Side)
C44 VVT Sensor (Bank 2 Exhaust Side)
C45 VVT Sensor (Bank 2 Intake Side)
C46 Camshaft Timing Oil Control Valve (Bank 2 Exhaust Side)
C47 Camshaft Timing Oil Control Valve (Bank 2 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
C56 Transmission Control ECU
C57 Junction Connector
C58 Engine ECU

D 1 Starter

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

Position of Parts in Engine Compartment

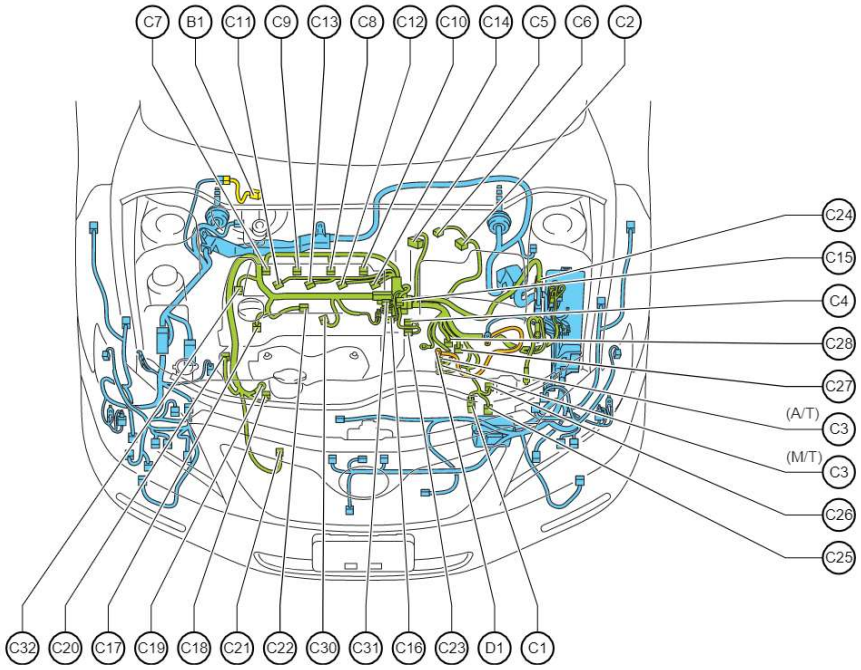
[RHD : 2AZ–FE]



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)
A 9 Clearance Lamp (Front LH)
A10 Turn Signal Lamp (Front LH)
A11 Headlamp Assembly (LH)
A12 Headlamp Leveling Motor (LH)
A13 Airbag Sensor (Front LH)
A14 Speed Sensor (Front LH)
A15 Turn Signal Lamp (Front Side LH)
A16 Brake Fluid Level Warning SW
A23 Security Horn
A24 Engine ECU
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)
A30 Clearance Lamp (Front RH)
A31 Turn Signal Lamp (Front RH)
A32 Headlamp Assembly (RH)
A33 Headlamp Leveling Motor (RH)
A34 Fog Lamp (Front RH)
A35 Speed Sensor (Front RH)
A36 Turn Signal Lamp (Front Side RH)
A37 Windshield Washer Motor
A38 Headlamp Cleaner Motor
A39 Headlamp Cleaner Control Relay
A43 Junction Connector
A44 Junction Connector

Position of Parts in Engine Compartment

[RHD : 2AZ–FE]



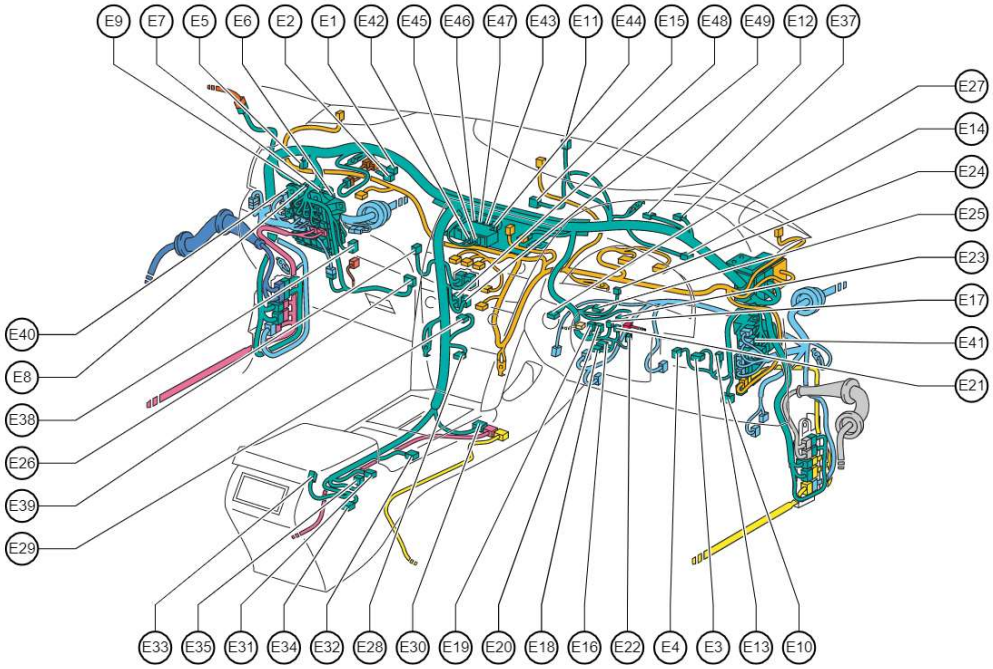
B 1 Windshield Wiper Motor

C 1 Park/Neutral Position SW
C 2 Air Flow Meter
C 3 Starter
C 4 EFI Water 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 Alternator
C19 Alternator
C20 Crankshaft Position Sensor
C21 A/C Compressor
C22 Heated Oxygen Sensor (Bank 1 Sensor 2)
C23 Engine Oil Pressure SW
C24 Engine ECU
C25 ECT Solenoid
C26 Transmission Revolution Sensor (Turbine)
C27 Transmission Revolution Sensor (Counter Gear)
C28 Back–Up Lamp SW
C30 Knock Control Sensor (Bank 1)
C31 Camshaft Position Sensor
C32 Camshaft Timing Oil Control Valve

D 1 Starter

Position of Parts in Instrument Panel

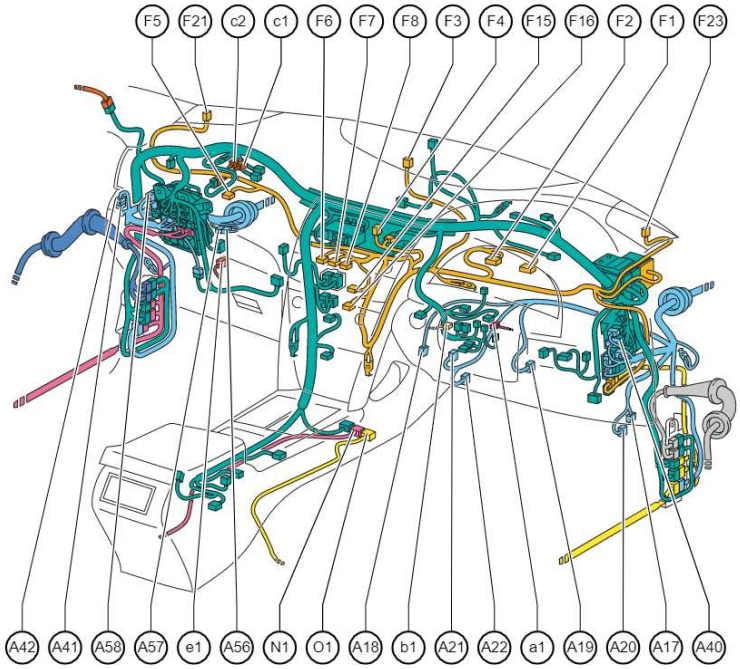
[RHD]



E 1 Diode (Door Courtesy Rear LH)
E 2 Diode (Door Courtesy Rear RH)
E 3 Outer Mirror SW
E 4 Headlamp Cleaner 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
E10 DLC3
E11 Automatic Light Control Sensor
E12 Ion Generator
E13 VSC Warning Buzzer
E14 Turn Signal Flasher
E15 Transponder Key ECU
E16 Airbag Squib (Steering Wheel Pad)
E17 Steering Sensor
E18 Spiral Cable
E19 Windshield Wiper SW Assembly
E20 Windshield Wiper SW Assembly
E21 Headlamp Dimmer SW Assembly
E22 Unlock Warning SW
E23 Ignition SW
E24 Key Interlock Solenoid
E25 Transponder Key Amplifier
E26 Windshield Wiper Relay
E27 A/C Room Temp. Sensor
E28 Cigarette Lighter
E29 Power Outlet Socket (Front)
E30 Airbag Sensor Assembly Center
E31 Transmission Control SW
E32 Shift Lock Control ECU
E33 Parking Brake SW
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
E47 Junction Connector
E48 Junction Connector
E49 Junction Connector

Position of Parts in Instrument Panel

[RHD]



A17 Accelerator Position Sensor
A18 Parking Brake SW
A19 Stop Lamp SW
A20 Headlamp Leveling ECU
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

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 15 Antenna Amplifier
F 16 A/C Control Assembly
F 21 Tweeter (Front LH)
F 23 Tweeter (Front RH)

N 1 Airbag Sensor Assembly Center

O 1 Airbag Sensor Assembly Center

a 1 Spiral Cable
Steering Pad SW

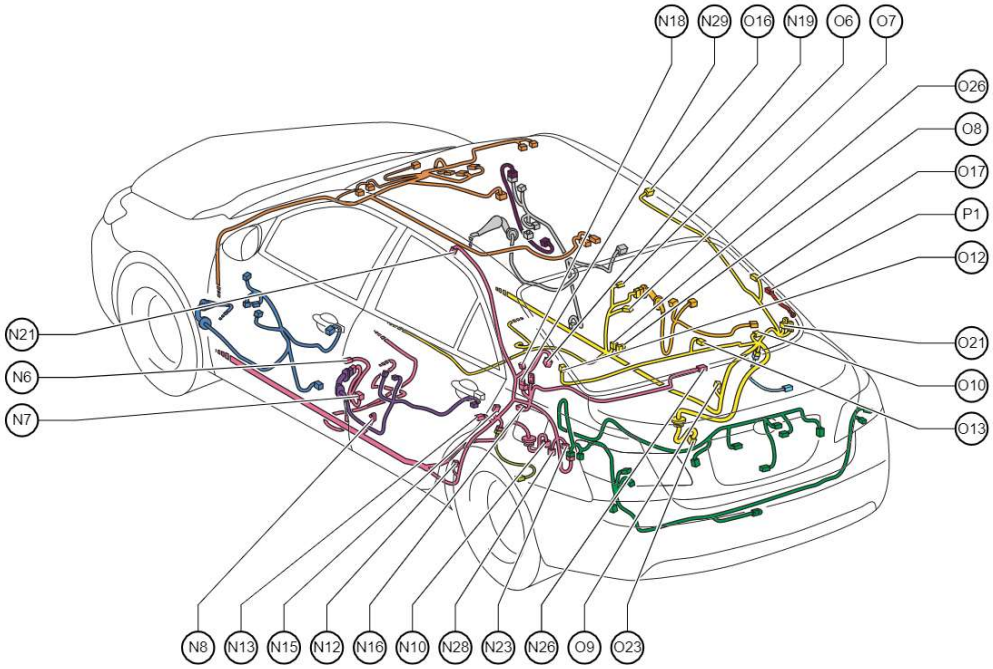
b 1 Cruise Control SW
Spiral Cable

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

[RHD]



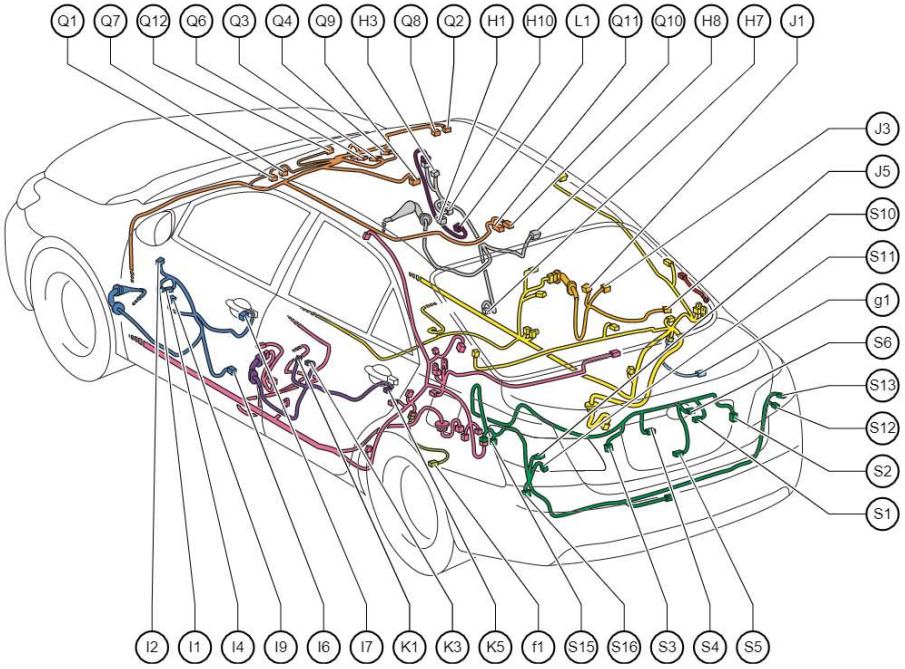
N 6 Door Courtesy SW (Front LH)
N 7 Side Airbag Sensor (Front LH)
N 8 Pretensioner (LH)
N10 Fuel Suction Pump and Gage Assembly
N12 Side Airbag Sensor (Rear LH)
N13 Door Courtesy SW (Rear LH)
N15 Noise Filter (Dome and Stop)
N16 Center Stop Lamp
N18 Noise Filter (Rear Window Defogger)
N19 Rear Window Defogger
N21 Curtain Shield Airbag Squib (LH)
N23 Diode (Luggage Compartment Lamp)
N26 Luggage Compartment Lamp
N28 Junction Connector
N29 Junction Connector

O 6 Door Courtesy SW (Front RH)
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)
O16 Curtain Shield Airbag Squib (RH)
O17 Door Control Receiver
O21 Junction Connector
O23 Height Control Sensor
O26 Tension Reducer (RH)

P 1 Rear Window Defogger

Position of Parts in Body

[RHD]



H 1 Speaker (Front Door RH)
H 3 Outer Rear View Mirror (RH)
H 7 Courtesy Lamp (Front Door RH)
H 8 Door Lock Assembly (Front RH)
H10 Power Window Regulator Motor (Front RH)

I 1 Speaker (Front Door LH)
I 2 Outer Rear View Mirror (LH)
I 4 Power Window Regulator Motor (Front LH)
I 6 Courtesy Lamp (Front Door LH)
I 7 Door Lock Assembly (Front LH)
I 9 Power Window SW (Front LH)

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)

L 1 Power Window Master SW

Q 1 Vanity Lamp SW (LH)
Q 2 Vanity Lamp SW (RH)
Q 3 Inner Rear View Mirror
Q 4 Rain Sensor
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 Sliding Roof Control ECU and Motor

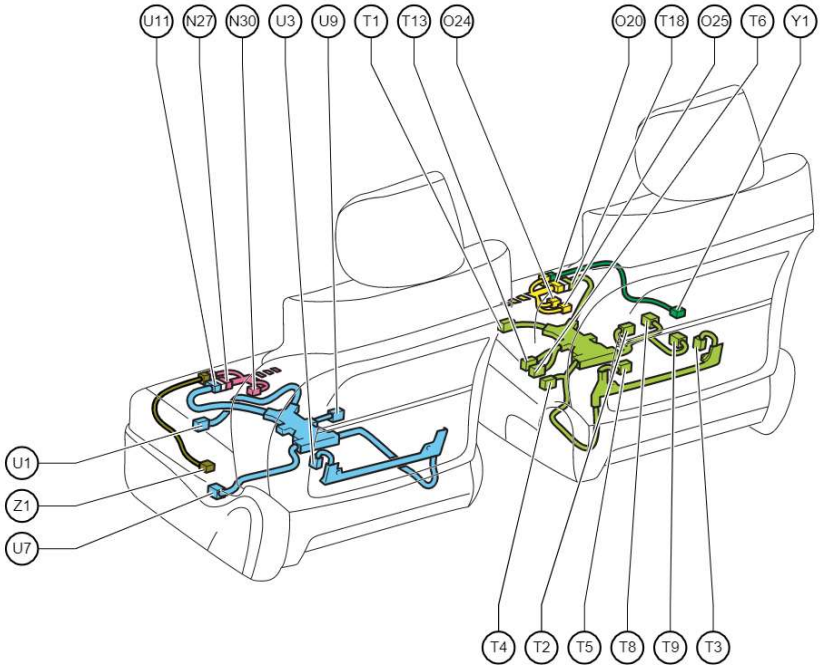
S 1 License Plate Lamp (RH)
S 2 Rear Combination Lamp (RH)
S 3 Rear Combination Lamp (LH)
S 4 License Plate Lamp (LH)
S 5 Door Lock Assembly (Luggage)
S 6 Luggage Compartment Door Lock Cylinder
S10 Turn Signal Lamp (Rear LH)
S11 Rear Combination Lamp (LH)
S12 Rear Combination Lamp (RH)
S13 Turn Signal Lamp (Rear RH)
S15 Junction Connector
S16 Junction Connector

f 1 Speed Sensor (Rear LH)

g 1 Speed Sensor (Rear RH)

Position of Parts in Seat

[RHD]



N27 Junction Connector
N30 Front Seat Inner Belt (Front LH)

O20 Junction Connector
O24 Front Seat Inner Belt (Front RH)
O25 Front Seat Inner Belt (Front RH)

T 1 Power Seat Motor (Front RH Seat Slide Control)
T 2 Power Seat Motor (Front RH Seat Front Vertical Control)
T 3 Power Seat Motor (Front RH Seat Reclining Control)
T 4 Power Seat Motor (Front RH Seat Lifter Control)
T 5 Power Seat Motor
(Front RH Seat Lumbar Support Control)
T 6 Seat Heater (RH)
T 8 Power Seat SW (Front RH Seat)
T 9 Power Seat SW
(Front RH Seat Lumbar Support Control)
T13 Front Seat Inner Belt (Front RH)
T18 Junction Connector

U 1 Power Seat Motor (Front LH Seat Slide Control)
U 3 Power Seat Motor (Front LH Seat Reclining Control)
U 7 Power Seat SW (Front LH Seat)
U 9 Front Seat Inner Belt (Front LH)
U11 Junction Connector

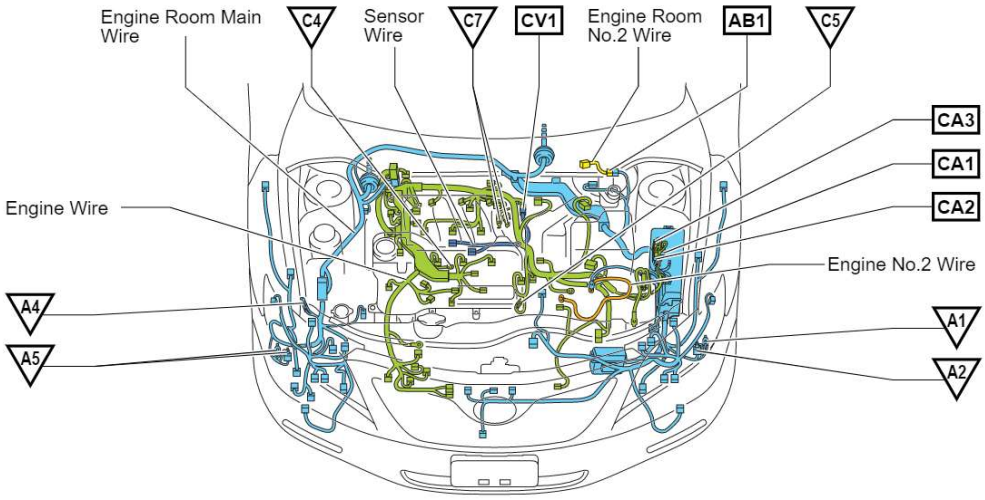
Y 1 Side Airbag Squib (RH)

Z 1 Side Airbag Squib (LH)

G ELECTRICAL WIRING ROUTING

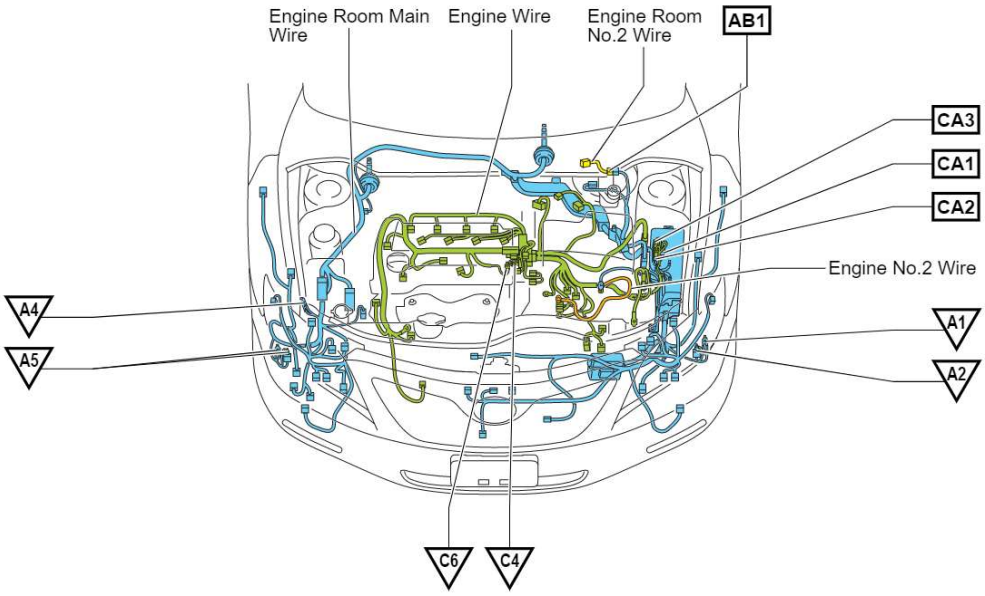
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD : 2GR–FE]



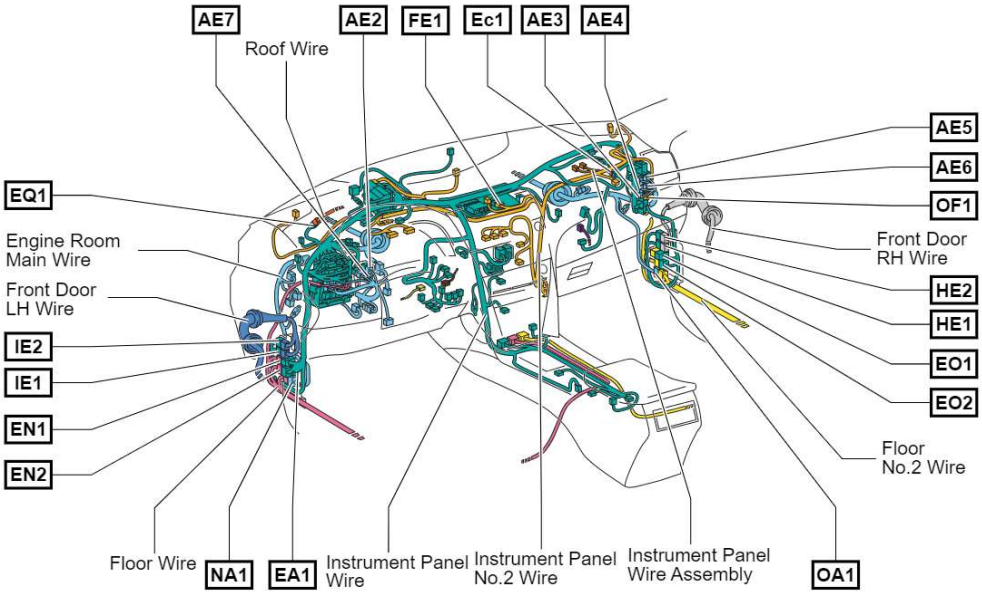
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD : 2AZ–FE]

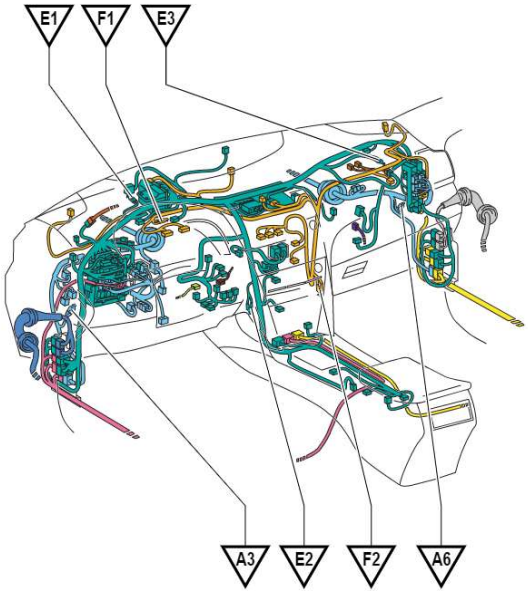


▭ : Location of Connector Joining Wire Harness and Wire Harness

[LHD]

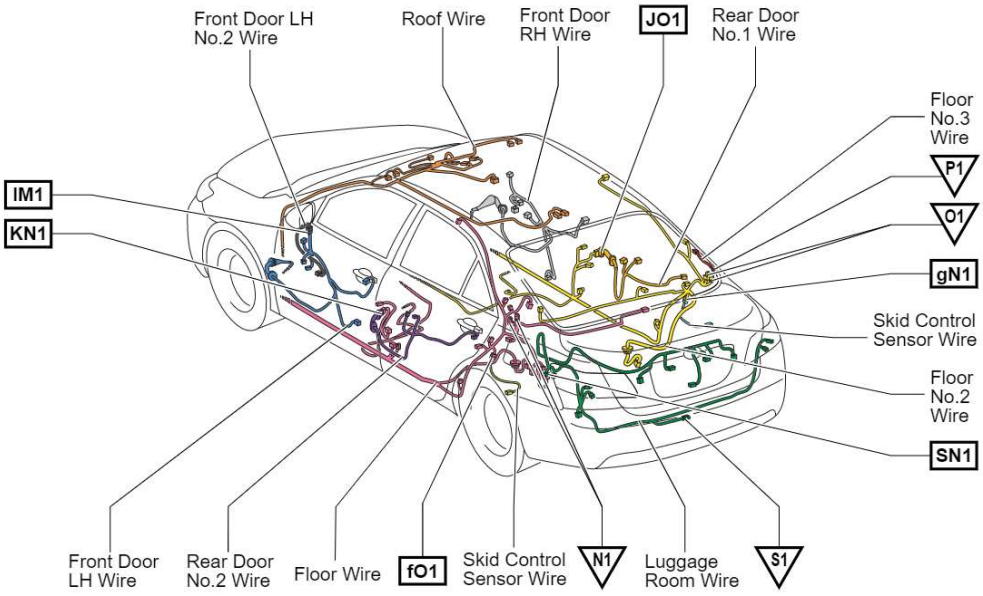


▽ : Location of Ground Points



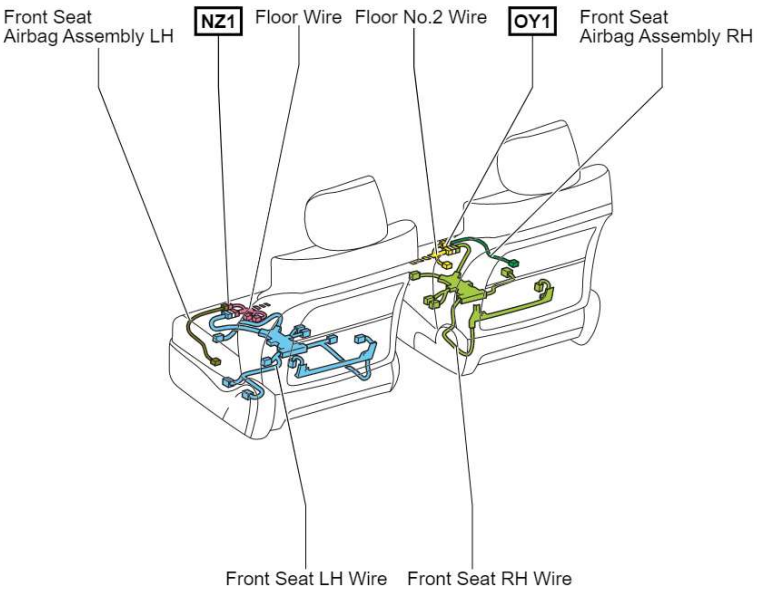
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD]



▭ : Location of Connector Joining Wire Harness and Wire Harness

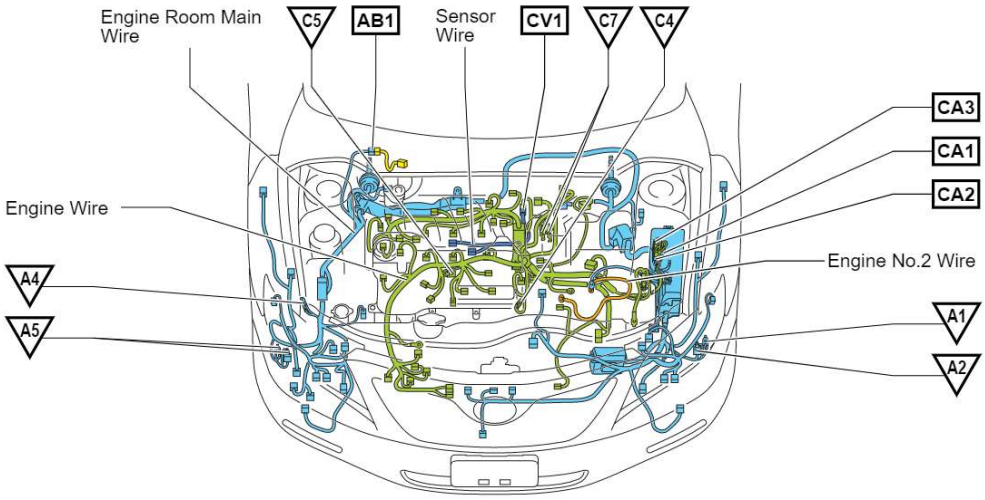
[LHD]



G ELECTRICAL WIRING ROUTING

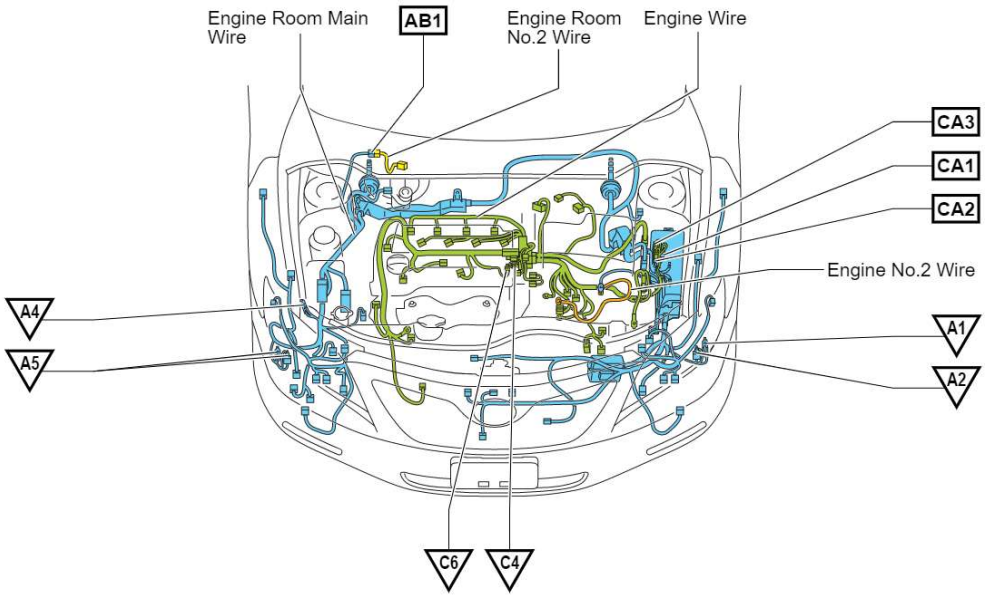
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[RHD : 2GR–FE]



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

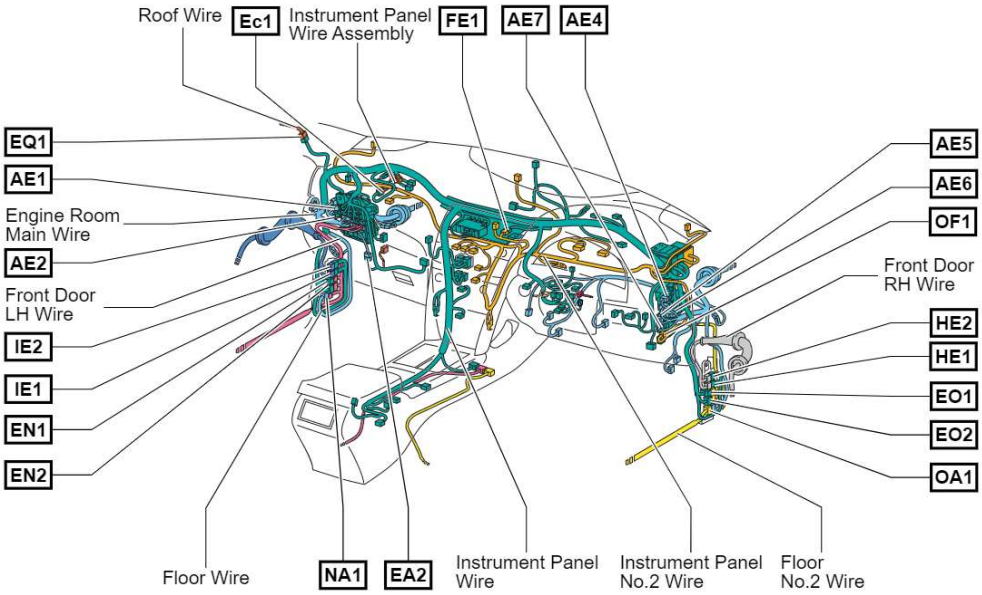
[RHD : 2AZ–FE]



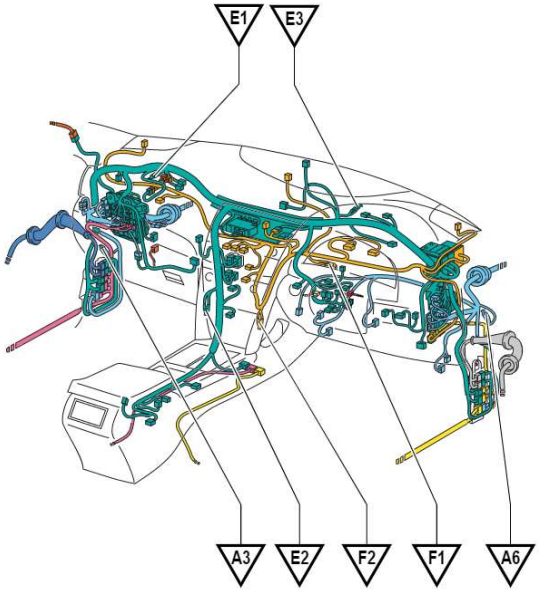
G ELECTRICAL WIRING ROUTING

▭ : Location of Connector Joining Wire Harness and Wire Harness

[RHD]

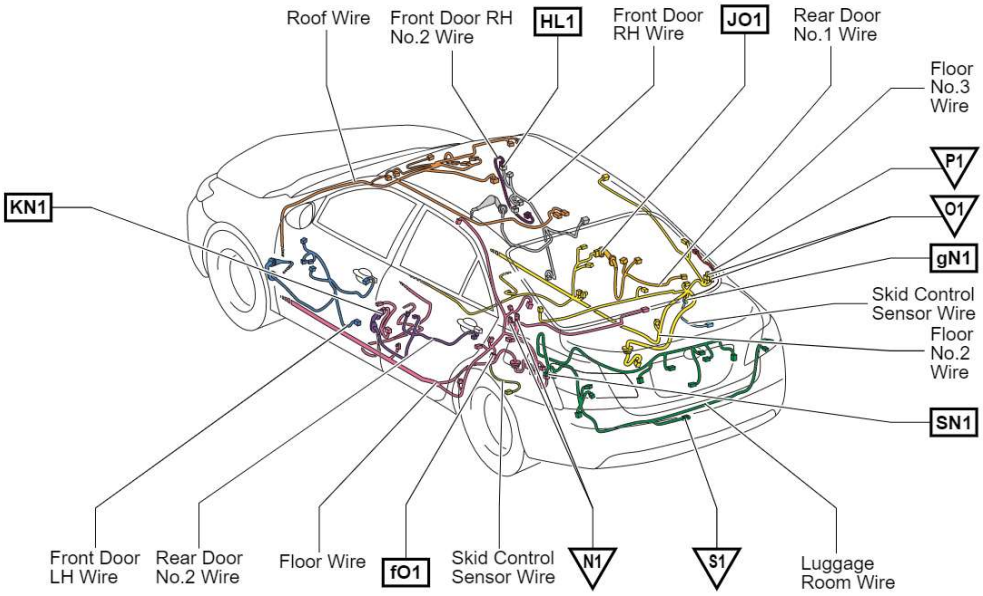


▽ : Location of Ground Points



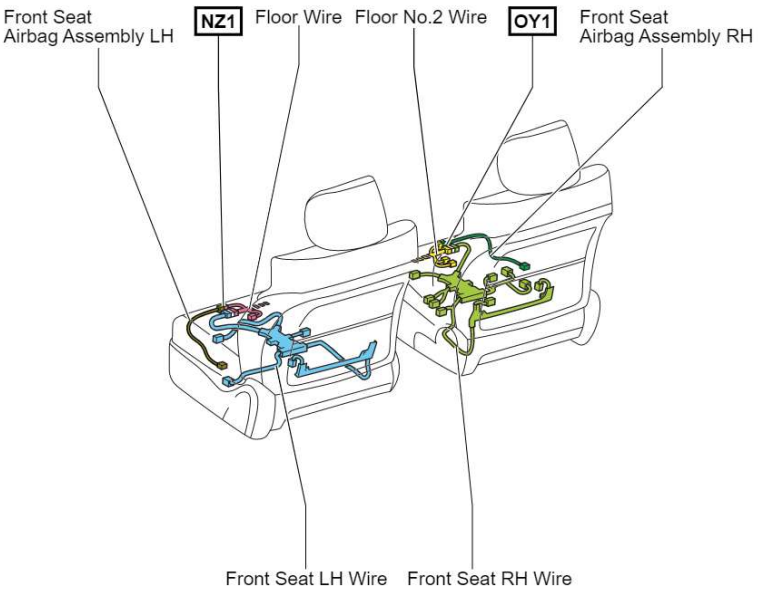
: Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[RHD]



▭ : Location of Connector Joining Wire Harness and Wire Harness

[RHD]

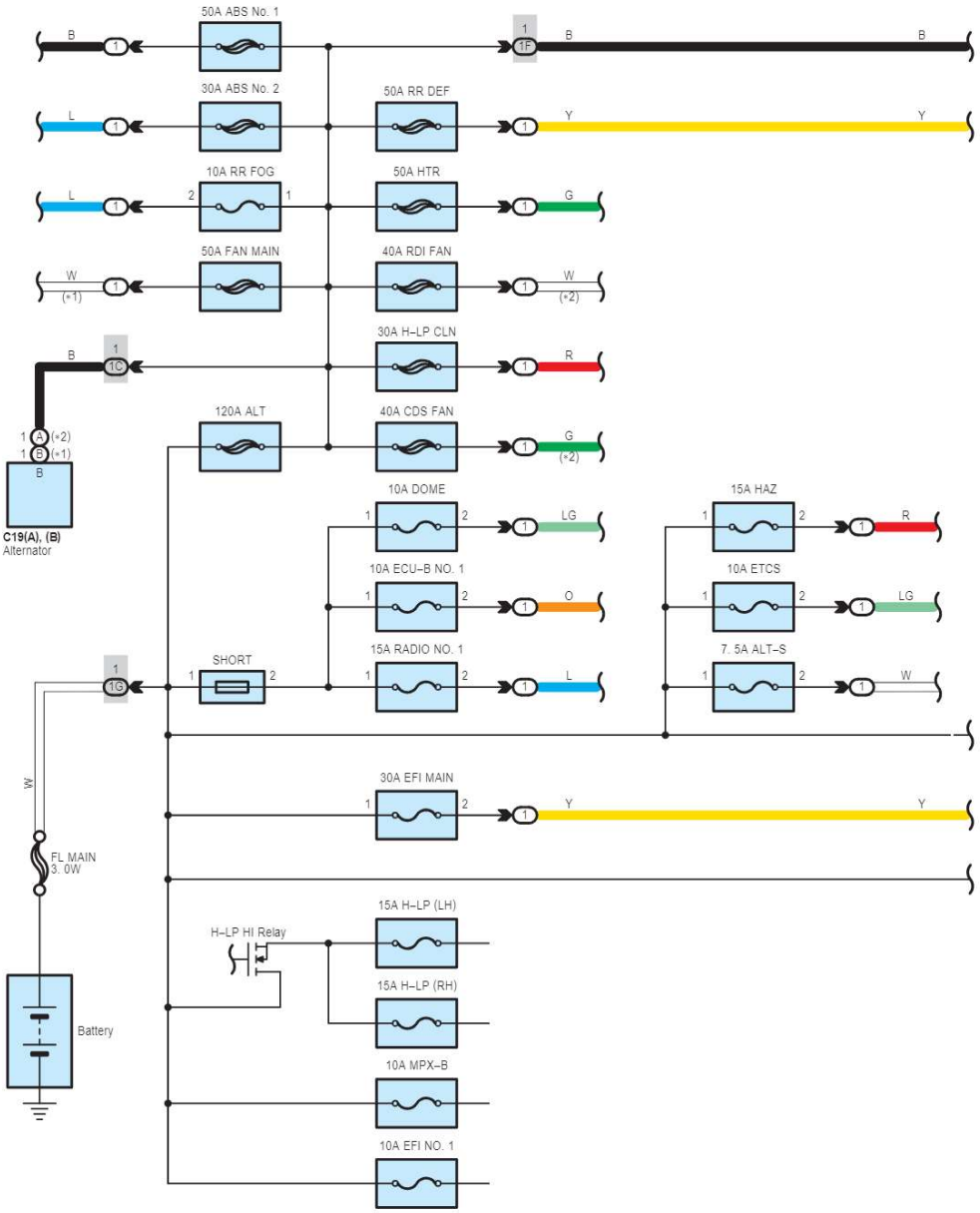


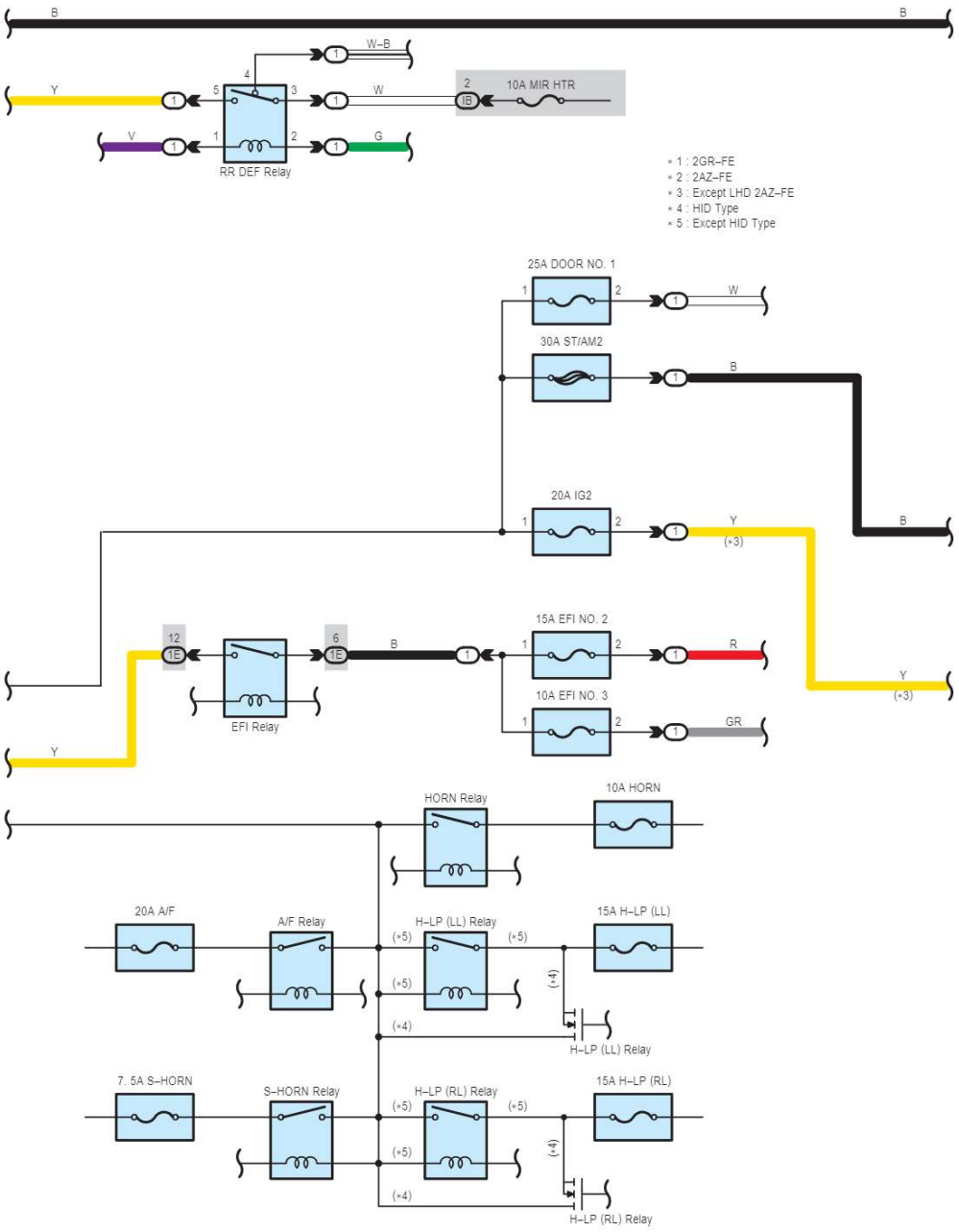
CAMRY
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

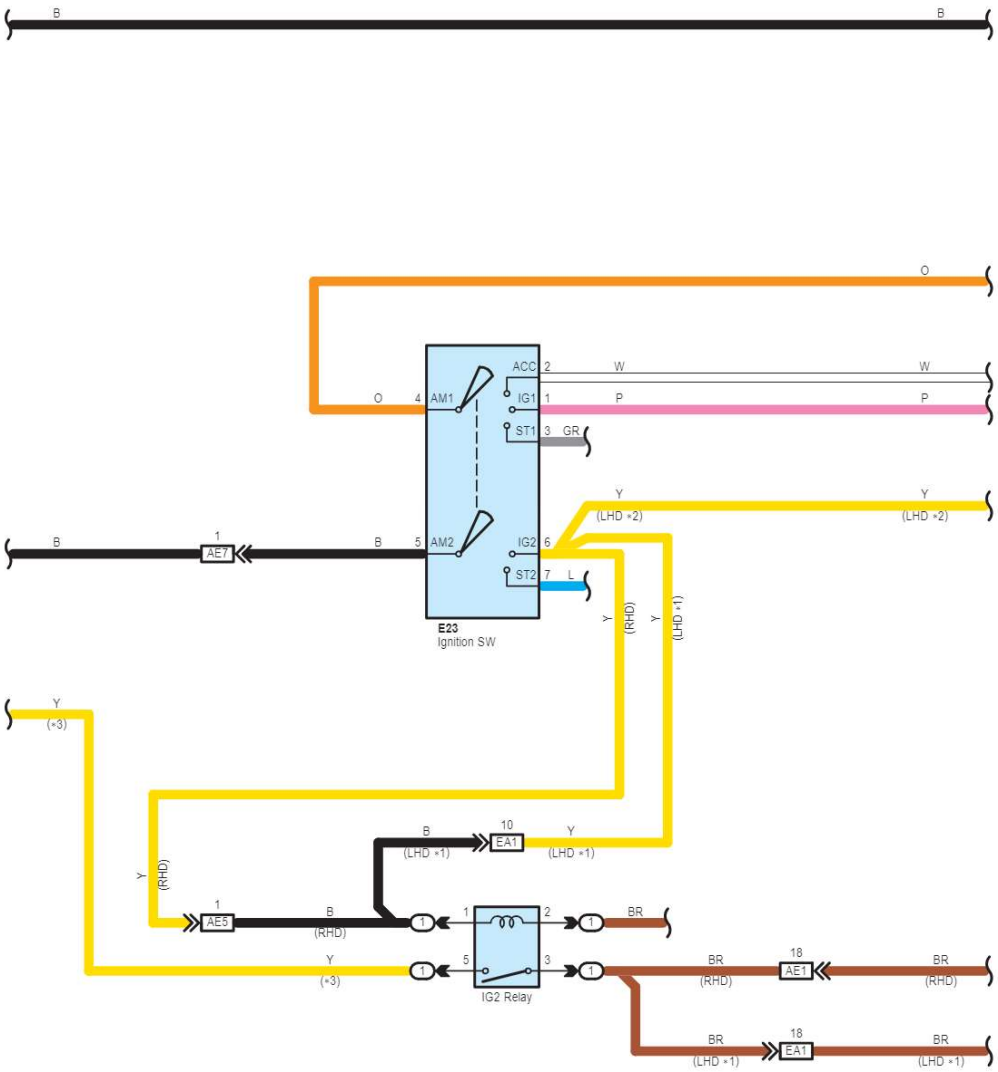
	Page
ABS (w/ VSC)	264
ABS (w/o VSC)	278
Air Conditioner	416
Audio System	384
Automatic Glare–Resistant EC Mirror	354
Automatic Light Control	188
Back–Up Light	174
Charging	104
Cigarette Lighter	358
Clock	362
Combination Meter	390
Cooling Fan (2GR–FE)	402
Cruise Control (2AZ–FE)	254
Cruise Control (2GR–FE)	242
DLC3	138
Door Lock Control	312
ECT and A/T Indicator (2AZ–FE)	232
ECT and A/T Indicator (2GR–FE)	220
Electric Tension Reducer	356
Engine Control (2AZ–FE)	122
Engine Control (2GR–FE)	106
Engine Immobiliser System	136
Front Fog Light	176
Front Wiper and Washer	212
Headlight	144
Headlight Beam Level Control (Automatic)	198
Headlight Beam Level Control (Manual)	204
Headlight Cleaner	208
Horn	364
Ignition (2AZ–FE)	100
Ignition (2GR–FE)	96
Illumination	162
Interior Light	154
Key Reminder	192
Light Auto Turn Off System	188
Luggage Compartment Door Opener	312
Mirror Heater	380
Multiplex Communication System (CAN)	140
Power Outlet	360
Power Seat (LHD Driver's Seat)	366
Power Seat (LHD Front Passenger's Seat)	374
Power Seat (RHD Driver's Seat)	370
Power Seat (RHD Front Passenger's Seat)	376
Power Source	86
Power Window	302
Radiator Fan and Condenser Fan (2AZ–FE)	408
Rear Fog Light	182

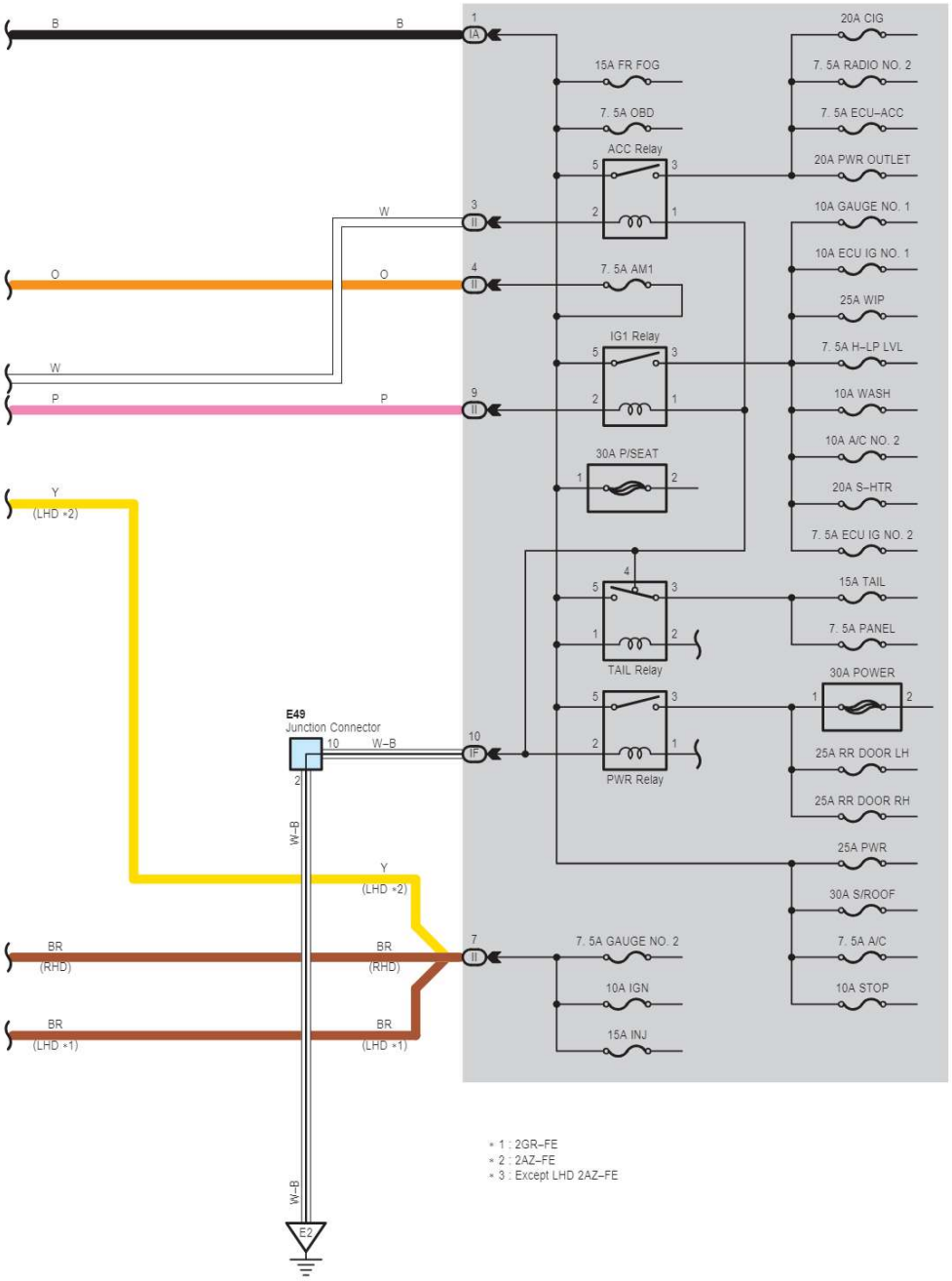
	Page
Rear Window Defogger	380
Remote Control Mirror	350
Seat Belt Warning	192
Seat Heater	378
Shift Lock	348
Sliding Roof	342
SRS (LHD)	287
SRS (RHD)	295
Starting	92
Stop Light	172
Taillight	162
Theft Deterrent	332
TRC	264
Turn Signal and Hazard Warning Light	150
VSC	264
Wireless Door Lock Control	322

Power Source




B
B
W–B
Y
W
10A MIR HTR
V
G
RR DEF Relay
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : Except LHD 2AZ–FE
* 4 : HID Type
* 5 : Except HID Type
25A DOOR NO. 1
W
30A ST/AM2
B
20A IG2
Y
(*3)
B
15A EFI NO. 2
R
10A EFI NO. 3
GR
EFI Relay
Y
HORN Relay
10A HORN
20A A/F
A/F Relay
H–LP (LL) Relay
15A H–LP (LL)
H–LP (LL) Relay
7. 5A S–HORN
S–HORN Relay
H–LP (RL) Relay
15A H–LP (RL)
H–LP (RL) Relay


B
B
O
ACC
2
W
W
O
4
AM1
IG1
1
P
P
ST1
3
GR
Y
(LHD *2)
Y
(LHD *2)
B
1
AE7
B
5
AM2
IG2
6
ST2
7
L
E23
Ignition SW
Y
(RHD)
Y
(LHD *1)
Y
(*3)
B
(LHD *1)
10
EA1
Y
(LHD *1)
Y
(RHD)
1
AE5
B
(RHD)
1
2
BR
Y
(*3)
5
3
IG2 Relay
BR
(RHD)
18
AE1
BR
(RHD)
BR
(LHD *1)
18
EA1
BR
(LHD *1)


B
B
1
1A
20A CIG
15A FR FOG
7. 5A RADIO NO. 2
7. 5A OBD
7. 5A ECU–ACC
ACC Relay
5
3
2
1
20A PWR OUTLET
W
3
II
10A GAUGE NO. 1
O
O
4
II
7. 5A AM1
10A ECU IG NO. 1
25A WIP
IG1 Relay
W
7. 5A H–LP LVL
P
P
9
II
10A WASH
10A A/C NO. 2
30A P/SEAT
20A S–HTR
Y
(LHD *2)
7. 5A ECU IG NO. 2
4
15A TAIL
7. 5A PANEL
TAIL Relay
30A POWER
E49
Junction Connector
10
W–B
10
IF
25A RR DOOR LH
2
25A RR DOOR RH
W–B
25A PWR
Y
(LHD *2)
30A S/ROOF
BR
(RHD)
BR
(RHD)
7
II
7. 5A GAUGE NO. 2
7. 5A A/C
10A IGN
10A STOP
BR
(LHD *1)
BR
(LHD *1)
15A INJ
W–B
E2
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : Except LHD 2AZ–FE

Power Source

○ : **Parts Location**

Code		See Page	Code		See Page	Code	See Page
C19	A	55 (*2)	C19	B	63 (*3)	E49	56 (LHD)
		65 (*4)	E23		56 (LHD)		66 (RHD)
	B	53 (*1)			66 (RHD)		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Wire and Engine Room J/B (Engine Compartment Left)
1E	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
1G		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IB	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

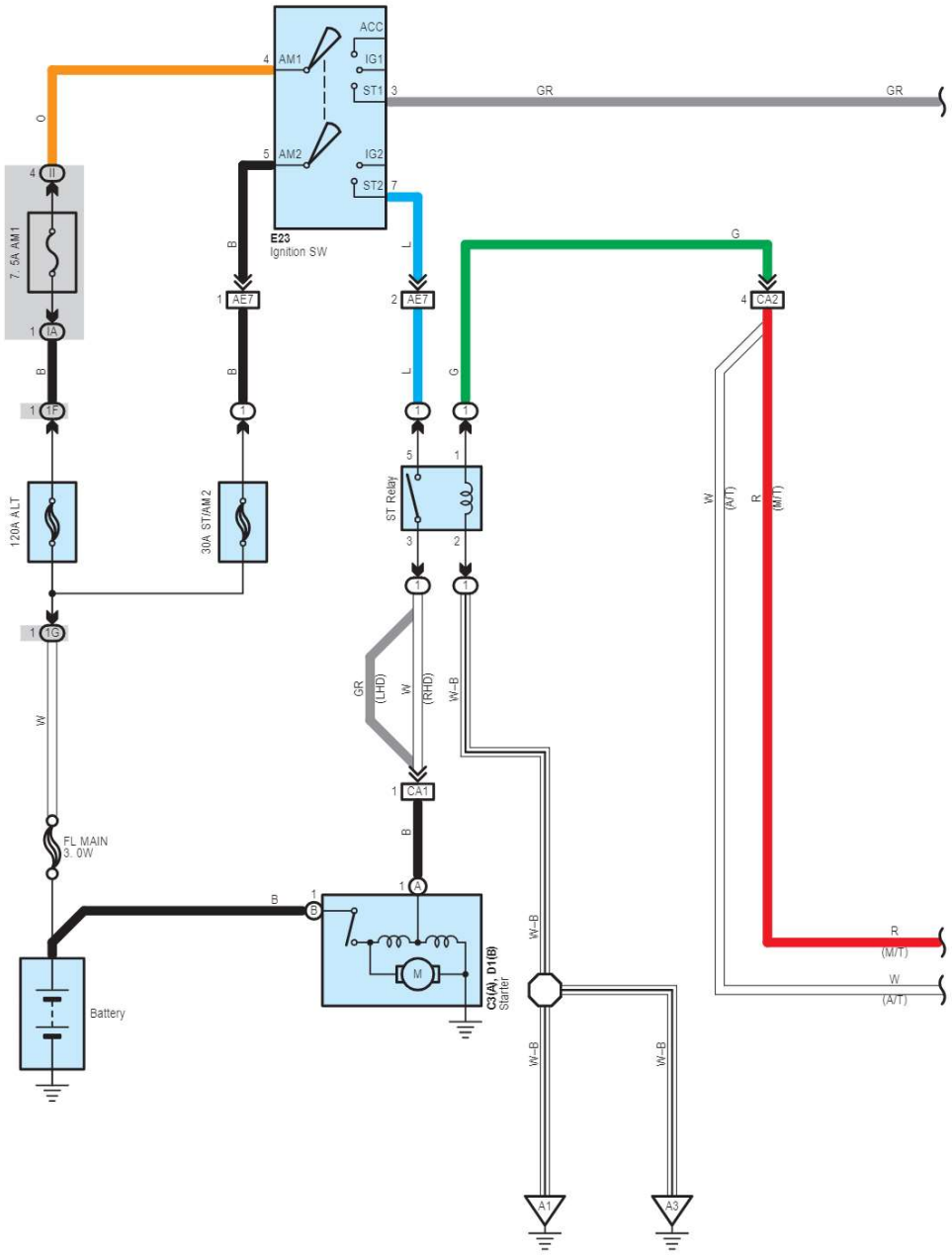
▭ : **Connector Joining Wire Harness and Wire Harness**

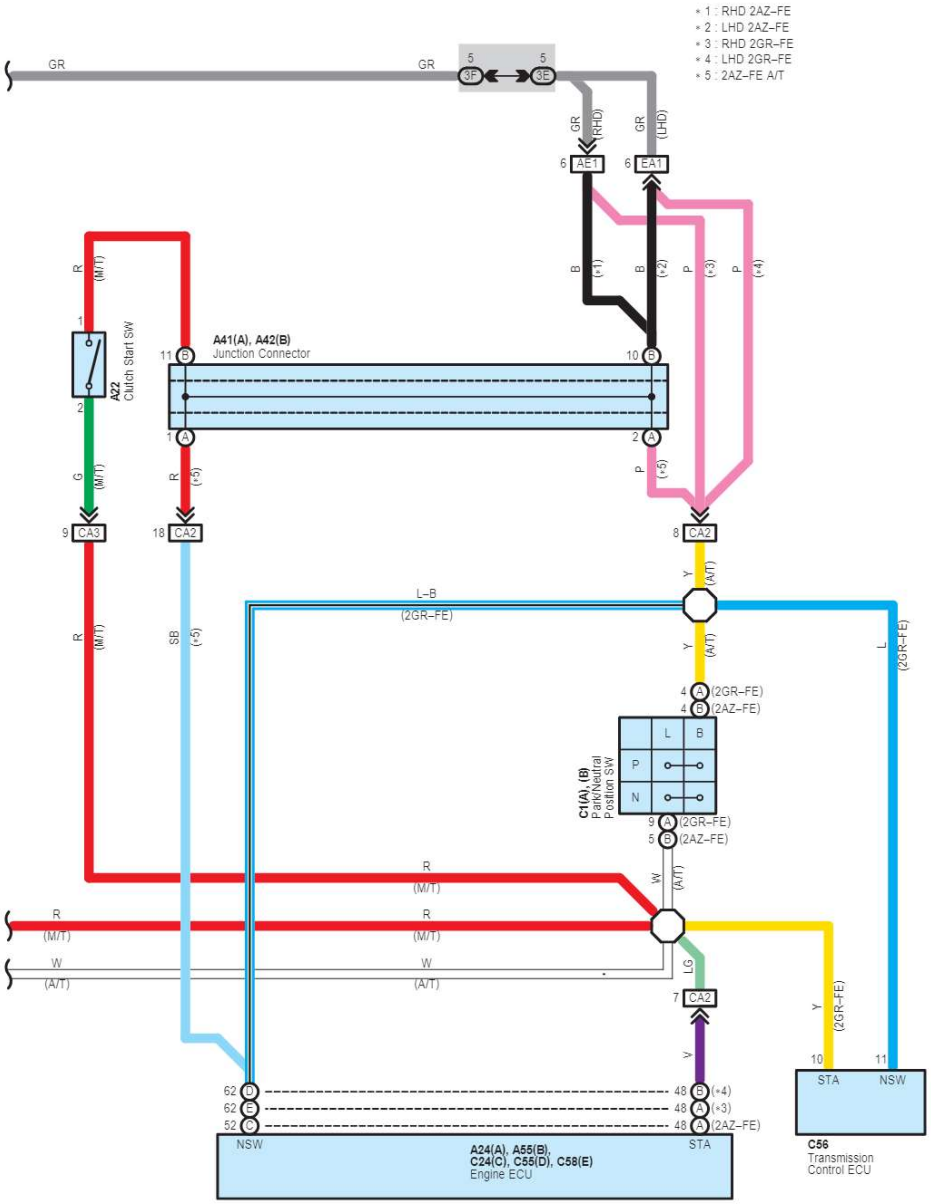
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE7	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


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


* 1 : RHD 2AZ-FE
* 2 : LHD 2AZ-FE
* 3 : RHD 2GR-FE
* 4 : LHD 2GR-FE
* 5 : 2AZ-FE A/T
GR
5
3F
3E
(RHD)
(LHD)
6 AE1
6 EA1
A41(A), A42(B)
Junction Connector
A22
Clutch Start SW
9 CA3
18 CA2
8 CA2
L-B
(2GR-FE)
4 (2GR-FE)
4 (2AZ-FE)
C1(A), (B)
Park/Neutral
Position SW
9 (2GR-FE)
5 (2AZ-FE)
7 CA2
10
11
STA
NSW
C56
Transmission
Control ECU
62
62
52
48
48
48
NSW
STA
A24(A), A55(B),
C24(C), C55(D), C58(E)
Engine ECU

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A22		57 (LHD)	C1	A	53 (*1)	C55	D	53 (*1)
		67 (RHD)			63 (*3)	C56		53 (*1)
A24	A	54 (*2)		B	55 (*2)			63 (*3)
		62 (*3)			65 (*4)	C58	E	63 (*3)
		64 (*4)	C3	A	53 (*1)	D1	B	53 (*1)
A41	A	57 (LHD)			55 (*2)			55 (*2)
		67 (RHD)			63 (*3)			63 (*3)
A42	B	57 (LHD)			65 (*4)			65 (*4)
		67 (RHD)	C24	C	55 (*2)	E23		56 (LHD)
A55	B	52 (*1)			65 (*4)			66 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1G		
3E	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

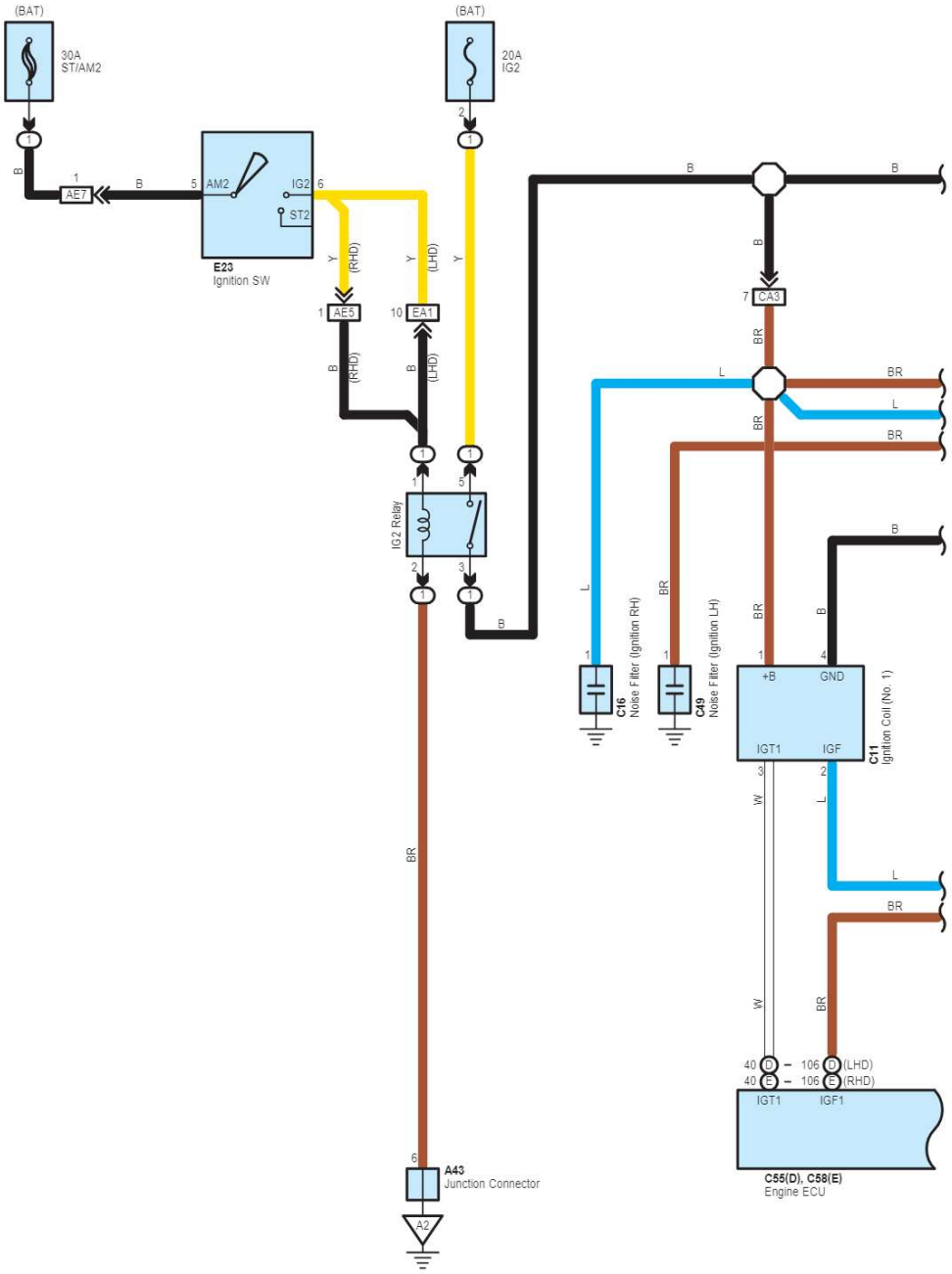
▭ : **Connector Joining Wire Harness and Wire Harness**

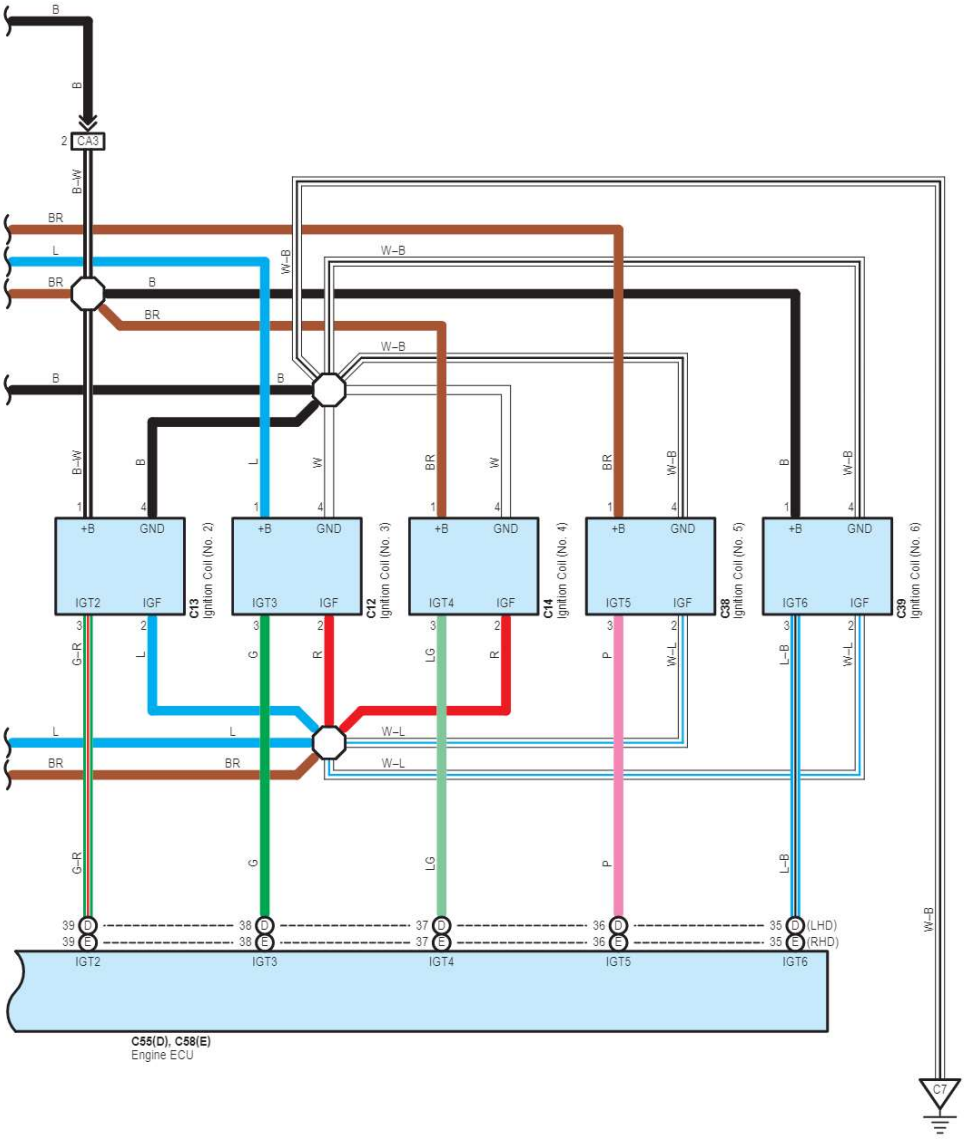
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE7	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA1	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
CA2	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
CA3	73 (*2)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
30A
ST/AM2
(BAT)
20A
IG2
AE7
AM2
IG2
ST2
E23
Ignition SW
AE5
EA1
(RHD)
(LHD)
IG2 Relay
CA3
C16
Noise Filter (Ignition RH)
C49
Noise Filter (Ignition LH)
+B
GND
IGT1
IGF
C11
Ignition Coil (No. 1)
A43
Junction Connector
A2
C55(D), C58(E)
Engine ECU
IGT1
IGF1
(LHD)
(RHD)


B
B
2 CA3
B–W
BR
L
BR
B
BR
W–B
W–B
B
B
W–B
B
B
W
BR
W
BR
W–B
B
W–B
1
4
+B
GND
IGT2
IGF
C13
Ignition Coil (No. 2)
IGT3
C12
Ignition Coil (No. 3)
IGT4
C14
Ignition Coil (No. 4)
IGT5
C38
Ignition Coil (No. 5)
IGT6
C39
Ignition Coil (No. 6)
3
2
G–R
L
G
R
LG
R
P
W–L
L–B
W–L
L
L
W–L
BR
BR
W–L
G–R
G
LG
P
L–B
W–B
39 D
39 E
38 D
38 E
37 D
37 E
36 D
36 E
35 D (LHD)
35 E (RHD)
IGT2
IGT3
IGT4
IGT5
IGT6
C55(D), C58(E)
Engine ECU
C7

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A43	52 (*1)	C14	53 (*1)	C49	53 (*1)
	62 (*3)		63 (*3)		63 (*3)
C11	53 (*1)	C16	53 (*1)	C55, D	53 (*1)
	63 (*3)		63 (*3)	C58, E	63 (*3)
C12	53 (*1)	C38	53 (*1)	E23	56 (LHD)
	63 (*3)		63 (*3)		66 (RHD)
C13	53 (*1)	C39	53 (*1)		
	63 (*3)		63 (*3)		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

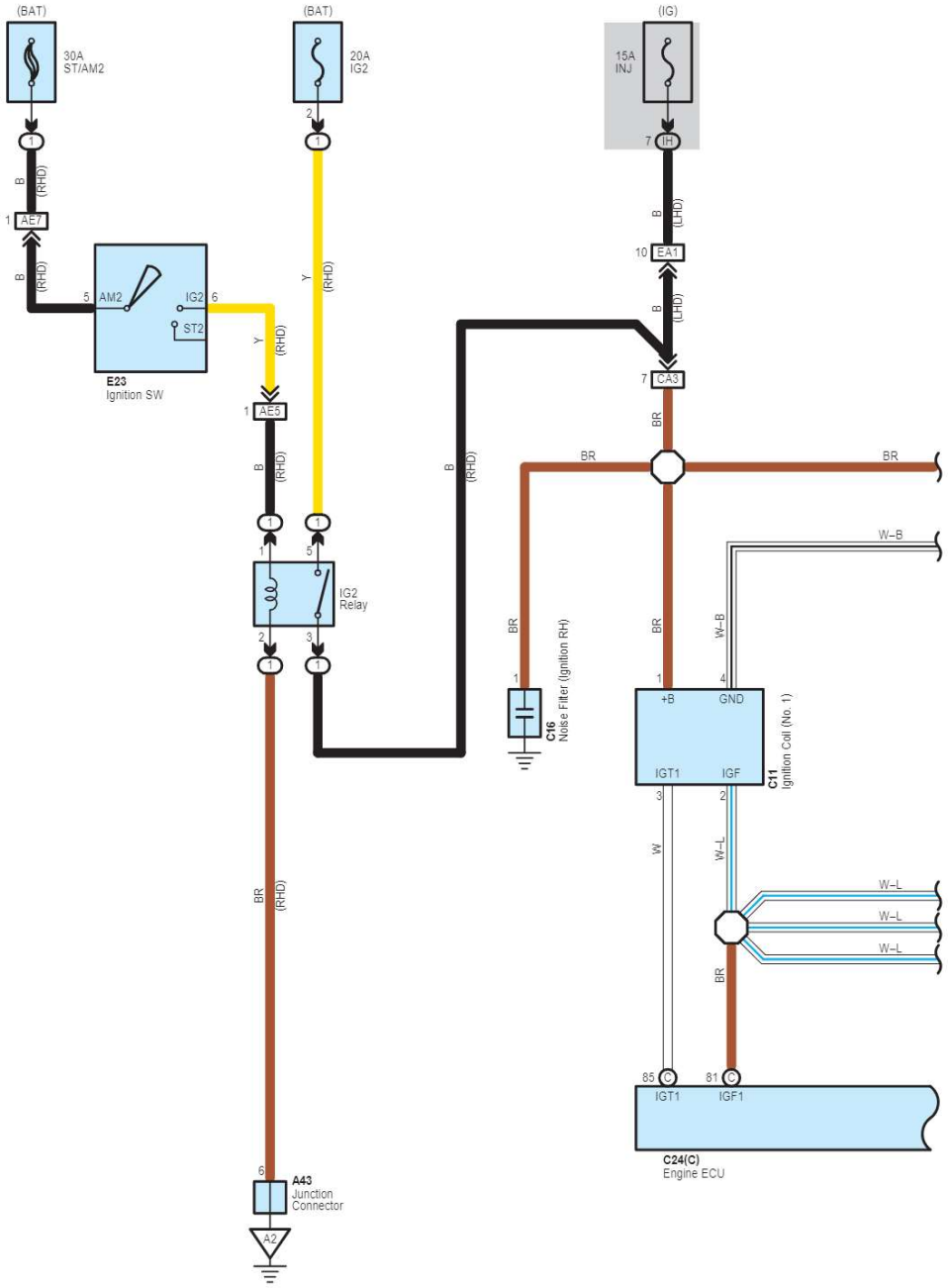
▭ : **Connector Joining Wire Harness and Wire Harness**

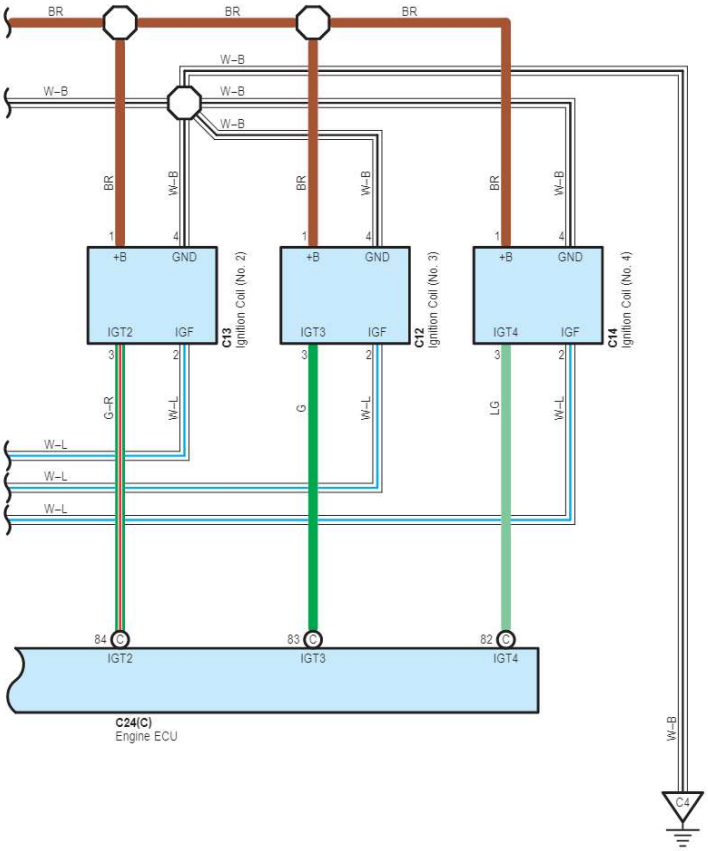
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE7	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	78 (*3)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A2	72 (*1)	Front Left Fender
	78 (*3)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
30A
ST/AM2
(BAT)
20A
IG2
(IG)
15A
INJ
AE7
AM2
IG2
ST2
E23
Ignition SW
AE5
IG2
Relay
EA1
CA3
IH
C16
Noise Filter (Ignition RH)
C11
Ignition Coil (No. 1)
+B
GND
IGT1
IGF
C24(C)
Engine ECU
IGT1
IGF1
A43
Junction
Connector
A2
B (RHD)
Y (RHD)
BR (RHD)
B (LHD)
BR
W–B
W–L
W


BR
BR
BR
W-B
W-B
W-B
W-B
BR
W-B
BR
W-B
BR
W-B
1
4
1
4
1
4
+B
GND
+B
GND
+B
GND
IGT2
IGF
IGT3
IGF
IGT4
IGF
C13
Ignition Coil (No. 2)
C12
Ignition Coil (No. 3)
C14
Ignition Coil (No. 4)
3
2
3
2
3
2
G-R
W-L
G
W-L
LG
W-L
W-L
W-L
W-L
84
IGT2
83
IGT3
82
IGT4
C24(C)
Engine ECU
W-B
C4

○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
A43	64 (*4)	C13	55 (*2)	C16		65 (*4)
C11	55 (*2)		65 (*4)	C24	C	55 (*2)
	65 (*4)	C14	55 (*2)			65 (*4)
C12	55 (*2)		65 (*4)	E23		66 (RHD)
	65 (*4)	C16	55 (*2)			

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

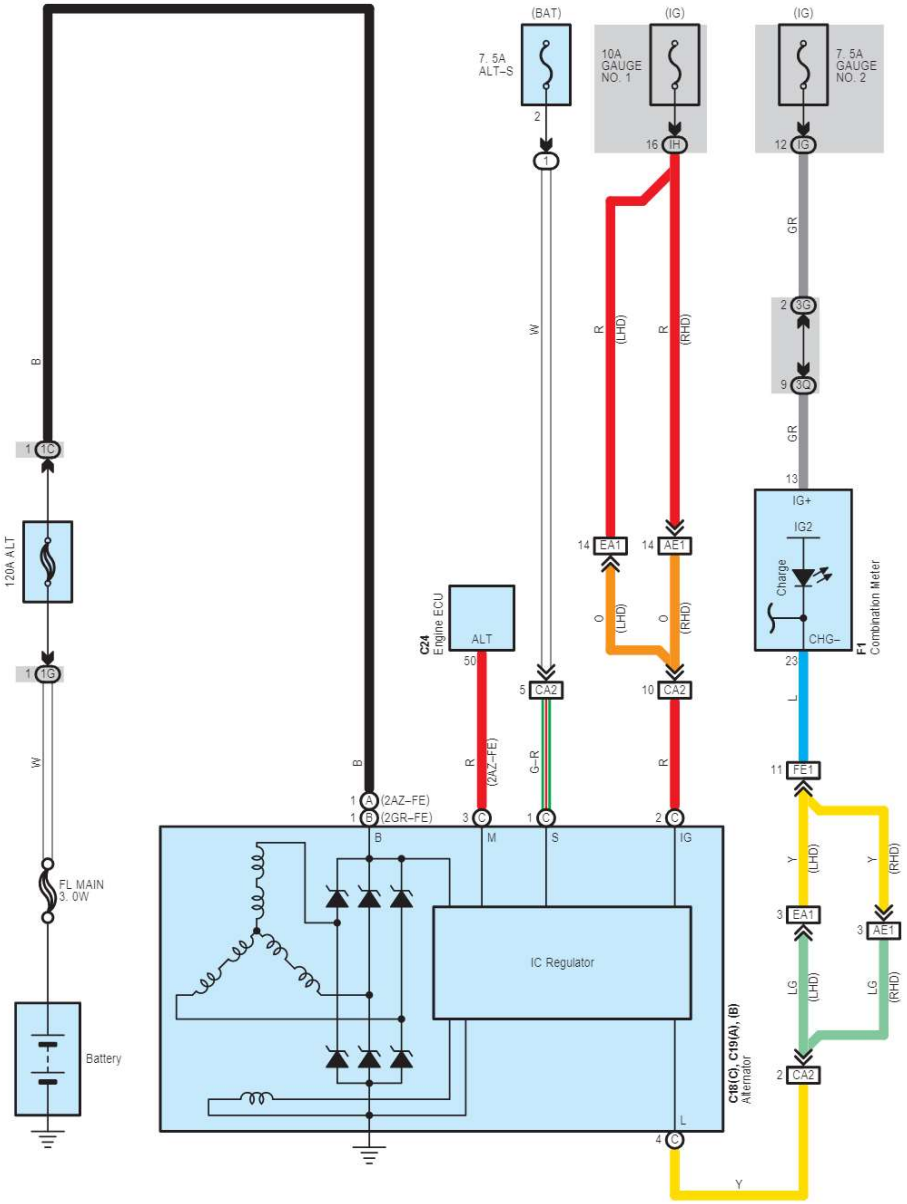
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE5	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE7		
CA3	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
A2	79 (*4)	Front Left Fender
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
(IG)
(IG)
7. 5A
ALT–S
10A
GAUGE
NO. 1
7. 5A
GAUGE
NO. 2
2
16 IH
12 IG
1
GR
W
R
(LHD)
R
(RHD)
2 3G
9 3Q
GR
13
IG+
IG2
Charge
CHG–
F1
Combination Meter
23
L
11 FE1
B
1 IC
120A ALT
1 IG
W
FL MAIN
3. 0W
Battery
C24
Engine ECU
ALT
50
5 CA2
10 CA2
14 EA1
14 AE1
O
(LHD)
O
(RHD)
R
(2AZ–FE)
G–R
R
1 A (2AZ–FE)
1 B (2GR–FE)
3 C
1 C
2 C
B
M
S
IG
IC Regulator
C18(C), C19(A), (B)
Alternator
L
4 C
Y
Y
(LHD)
Y
(RHD)
3 EA1
3 AE1
LG
(LHD)
LG
(RHD)
2 CA2

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
C18	C	53 (*1)	C19	A	55 (*2)	C24	55 (*2)
		55 (*2)			65 (*4)		65 (*4)
		63 (*3)		B	53 (*1)	F1	57 (LHD)
		65 (*4)			63 (*3)		67 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

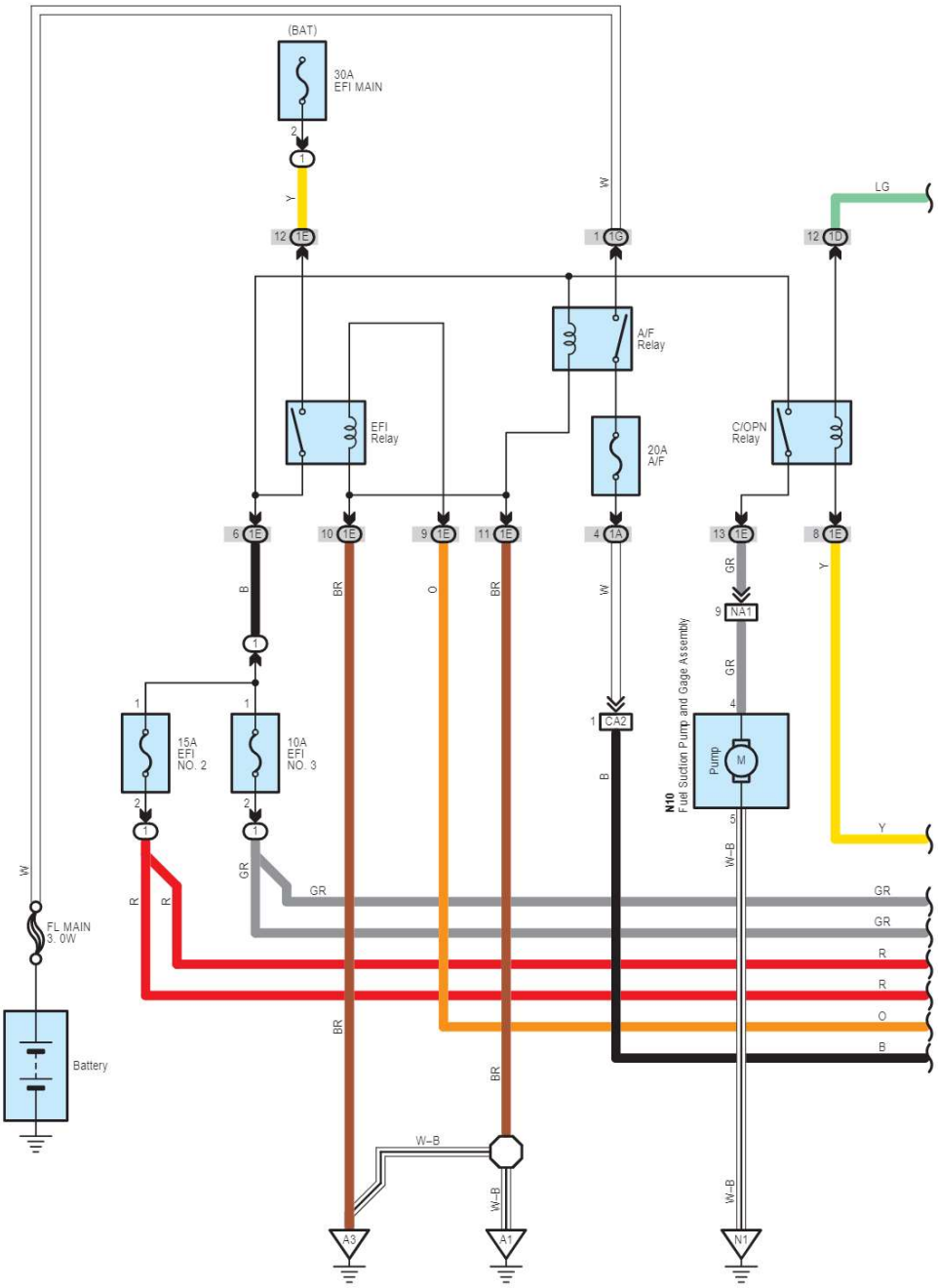
⬭ : Junction Block and Wire Harness Connector

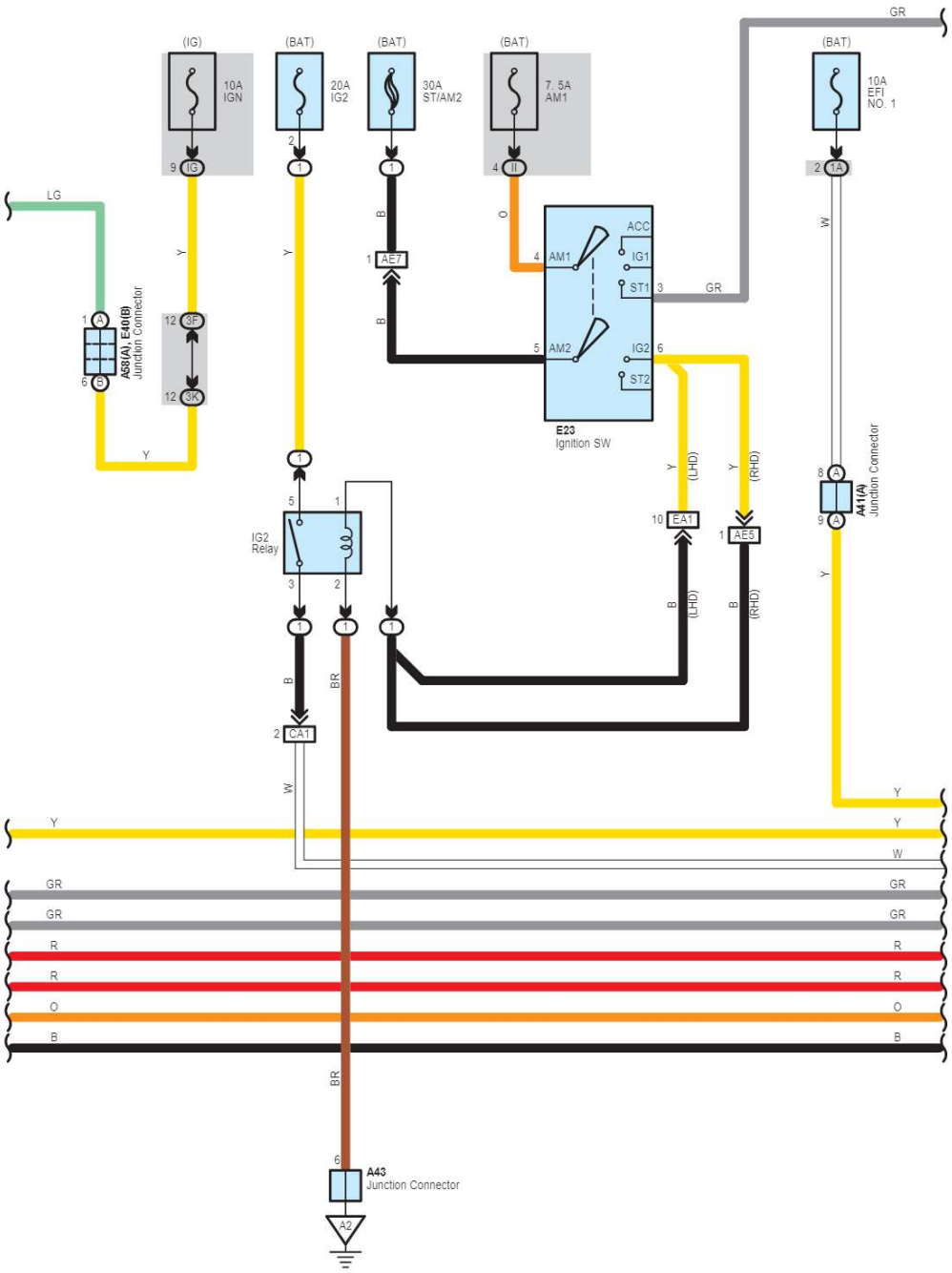
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Wire and Engine Room J/B (Engine Compartment Left)
1G	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3G	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

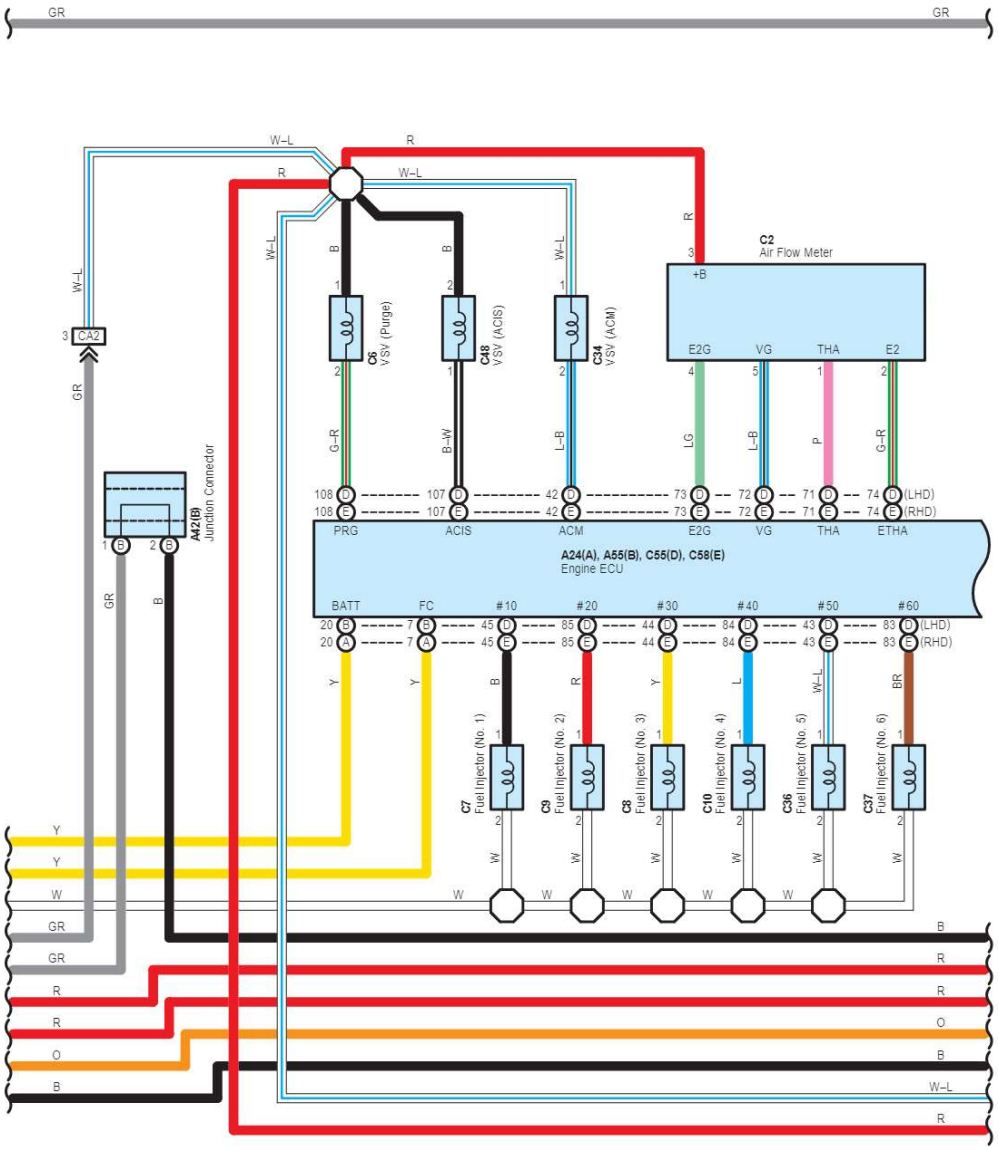
▭ : Connector Joining Wire Harness and Wire Harness

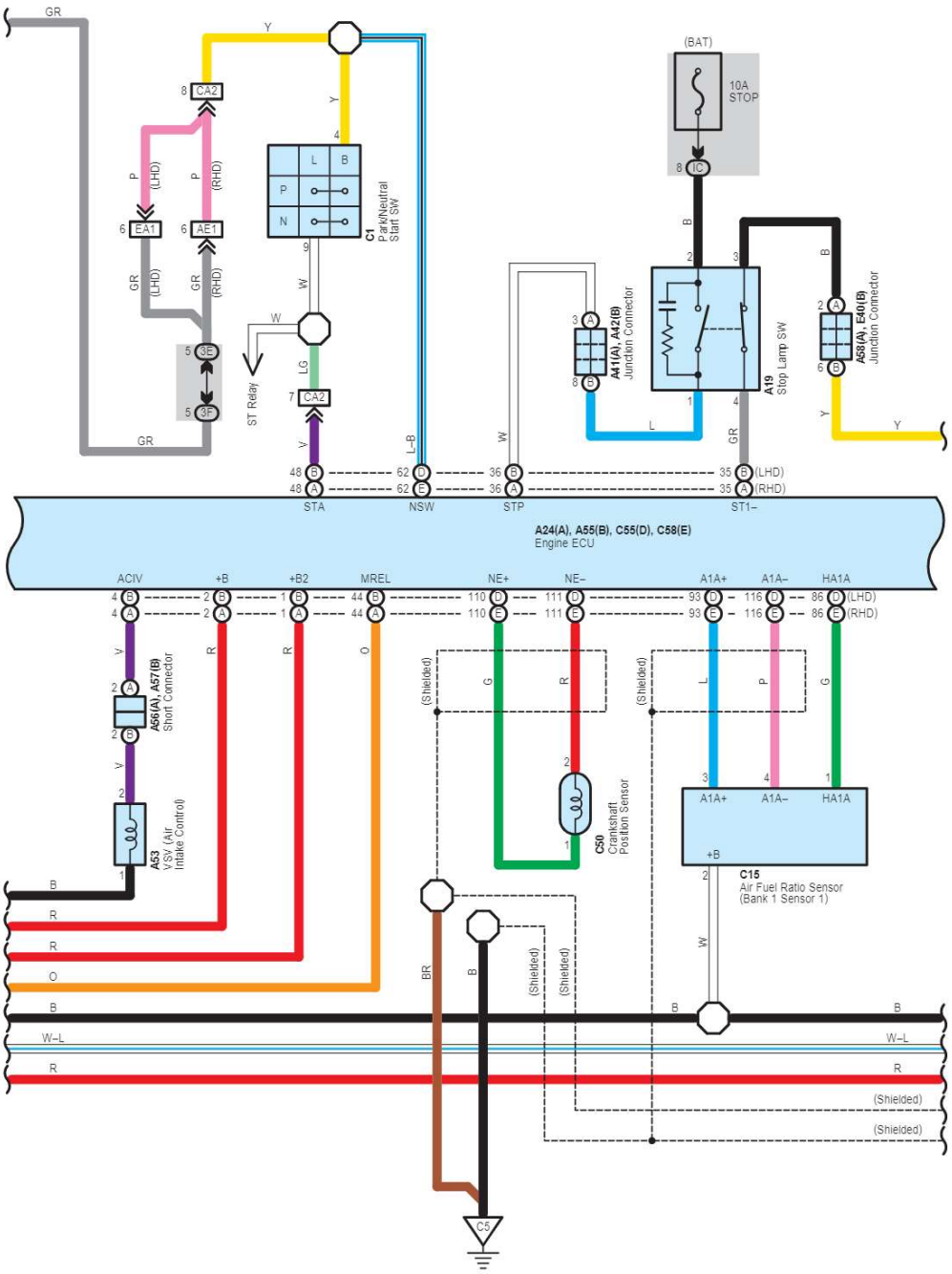
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

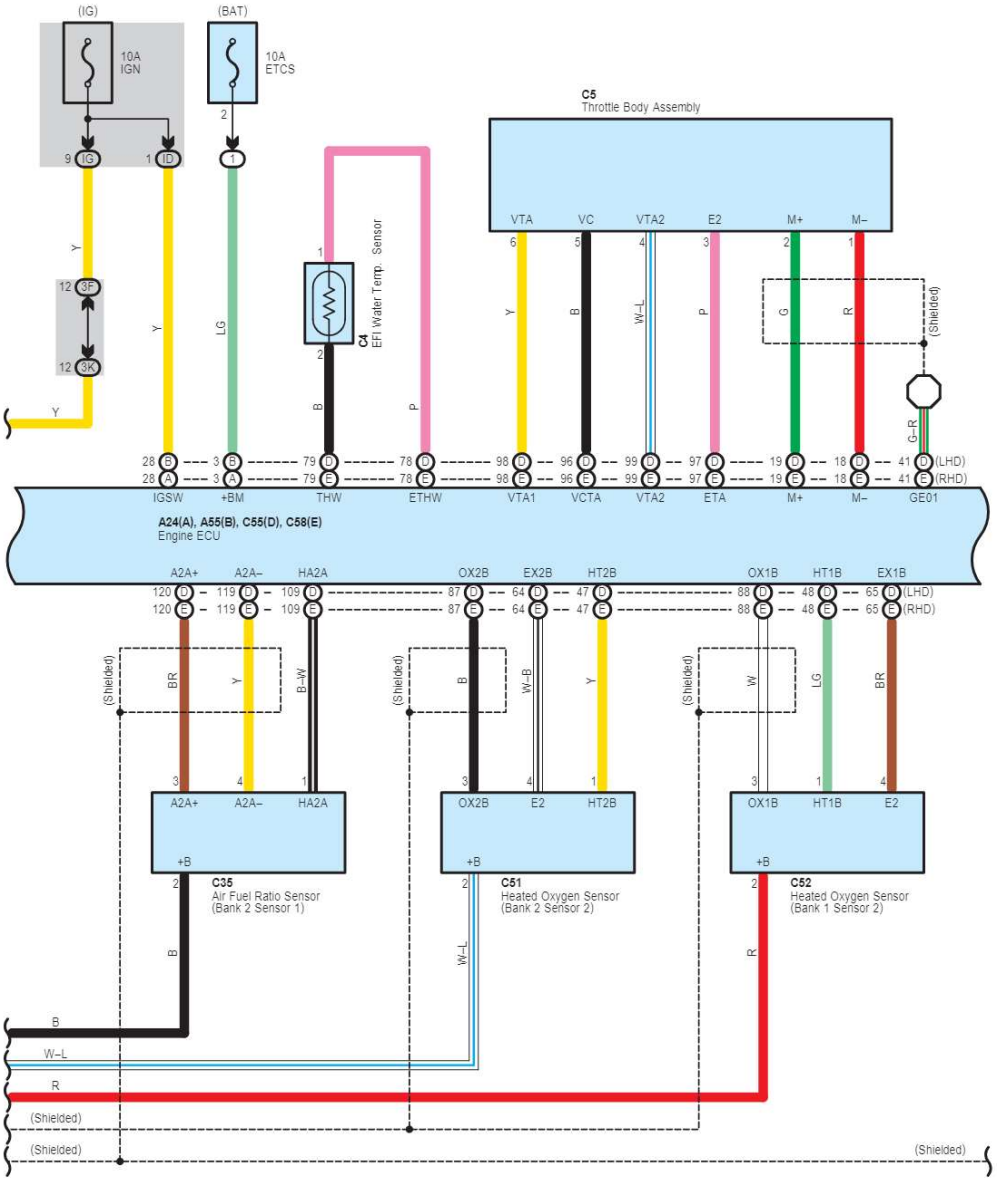
* 1 : LHD 2GR–FE　* 2 : LHD 2AZ–FE　* 3 : RHD 2GR–FE　* 4 : RHD 2AZ–FE

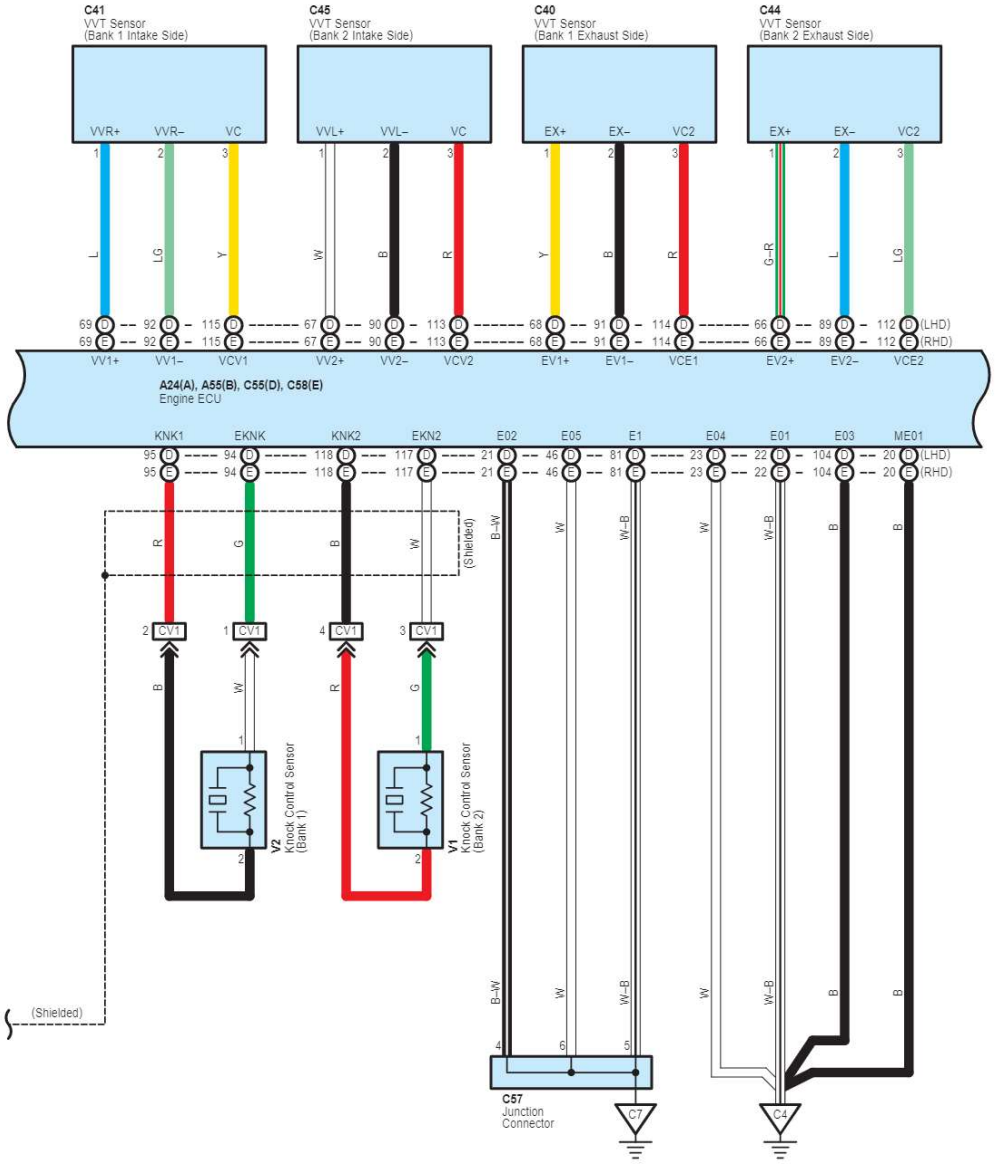

(BAT)
30A
EFI MAIN
A/F
Relay
EFI
Relay
20A
A/F
C/OPN
Relay
LG
15A
EFI
NO. 2
10A
EFI
NO. 3
N10
Fuel Suction Pump and Gage Assembly
Pump
M
FL MAIN
3. 0W
Battery
W–B
A3
A1
N1

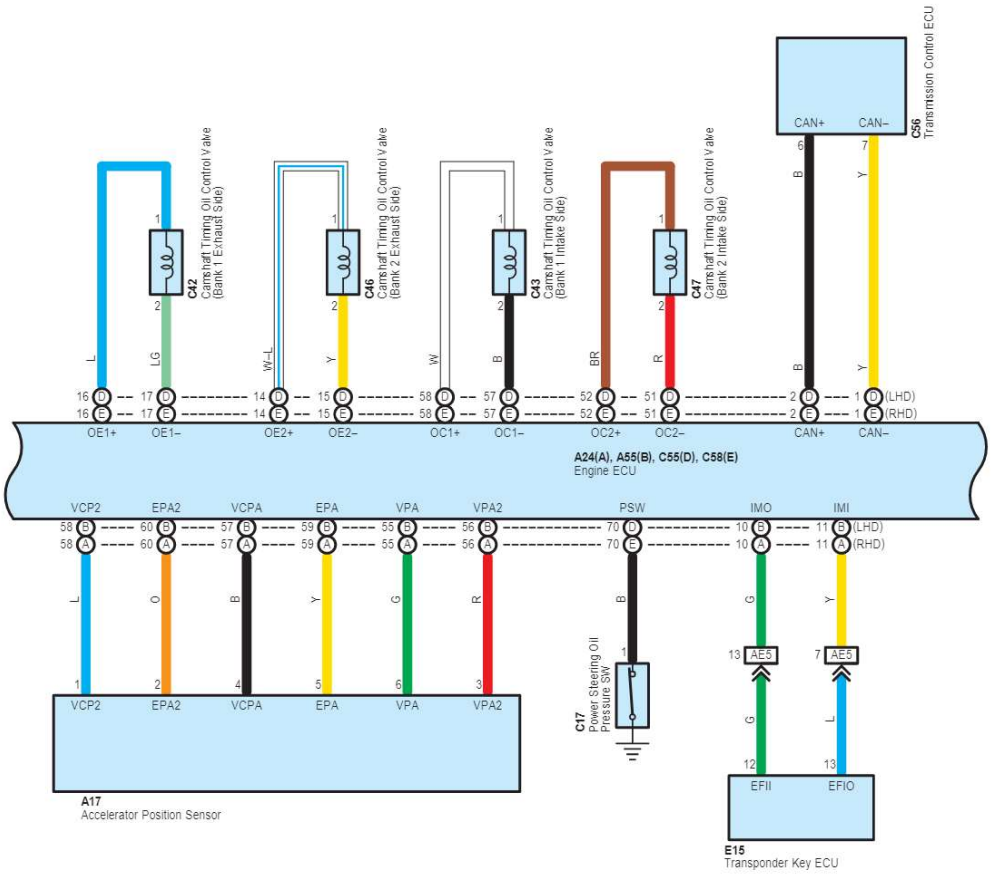

(IG)
10A
IGN
(BAT)
20A
IG2
(BAT)
30A
ST/AM2
(BAT)
7.5A
AM1
(BAT)
10A
EFI
NO. 1
GR
LG
Y
B
O
W
ACC
IG1
ST1
AM1
AM2
IG2
ST2
E23
Ignition SW
A8(A), E40(B)
Junction Connector
A41(A)
Junction Connector
IG2
Relay
(LHD)
(RHD)
BR
R
A43
Junction Connector
A2

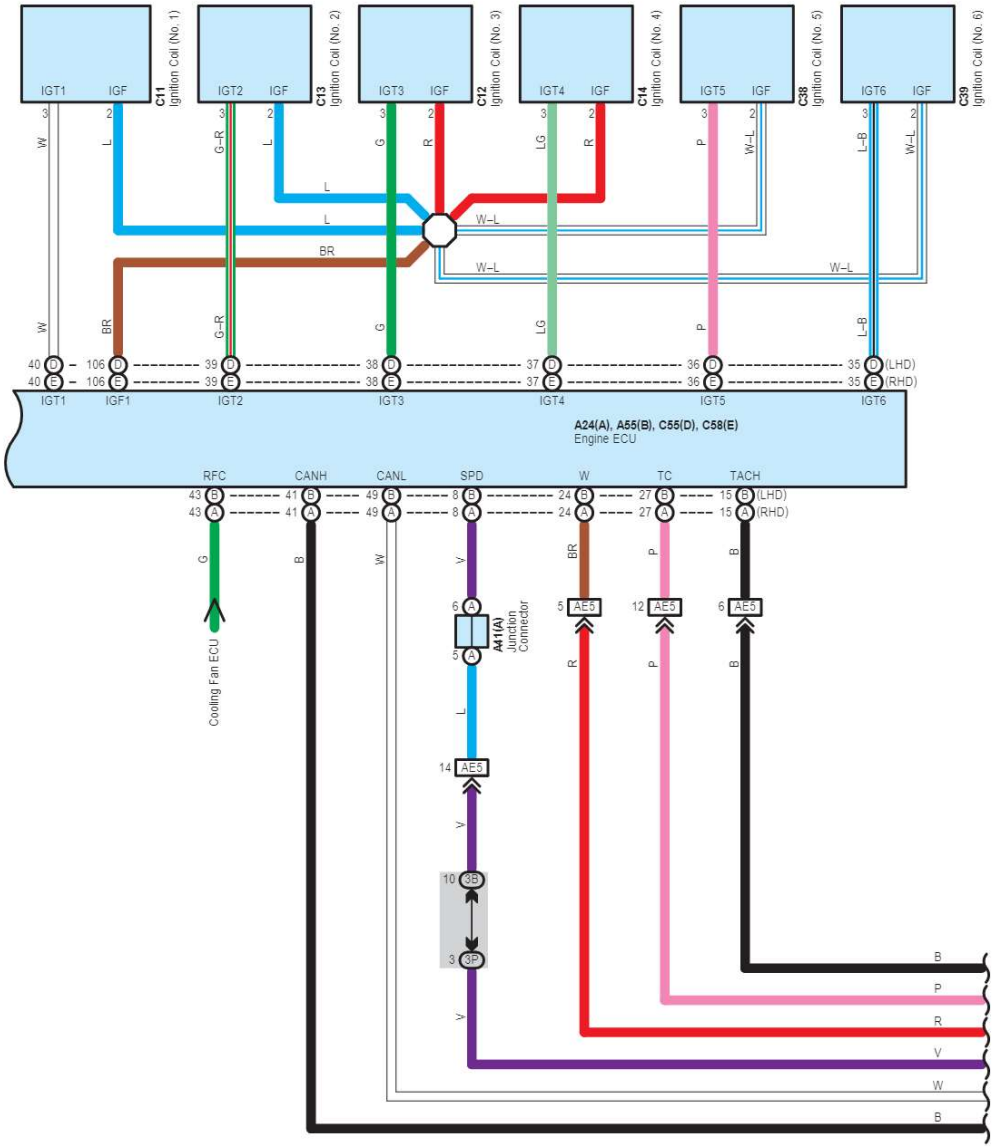

GR
GR
W–L
R
W–L
R
W–L
B
B
W–L
R
C2
Air Flow Meter
+B
E2G
VG
THA
E2
3
CA2
C6
VSV (Purge)
C48
VSV (ACIS)
C34
VSV (ACM)
GR
G–R
B–W
L–B
LG
L–B
P
G–R
A42(B)
Junction Connector
108
107
42
73
72
71
74
(LHD)
(RHD)
PRG
ACIS
ACM
E2G
VG
THA
ETHA
A24(A), A55(B), C55(D), C58(E)
Engine ECU
BATT
FC
#10
#20
#30
#40
#50
#60
20
7
45
85
44
84
43
83
(LHD)
(RHD)
Y
Y
B
R
Y
L
W–L
BR
C7
Fuel Injector (No. 1)
C9
Fuel Injector (No. 2)
C8
Fuel Injector (No. 3)
C10
Fuel Injector (No. 4)
C36
Fuel Injector (No. 5)
C37
Fuel Injector (No. 6)
W
Y
Y
W
GR
GR
R
R
O
B
B
R
R
O
B
W–L
R

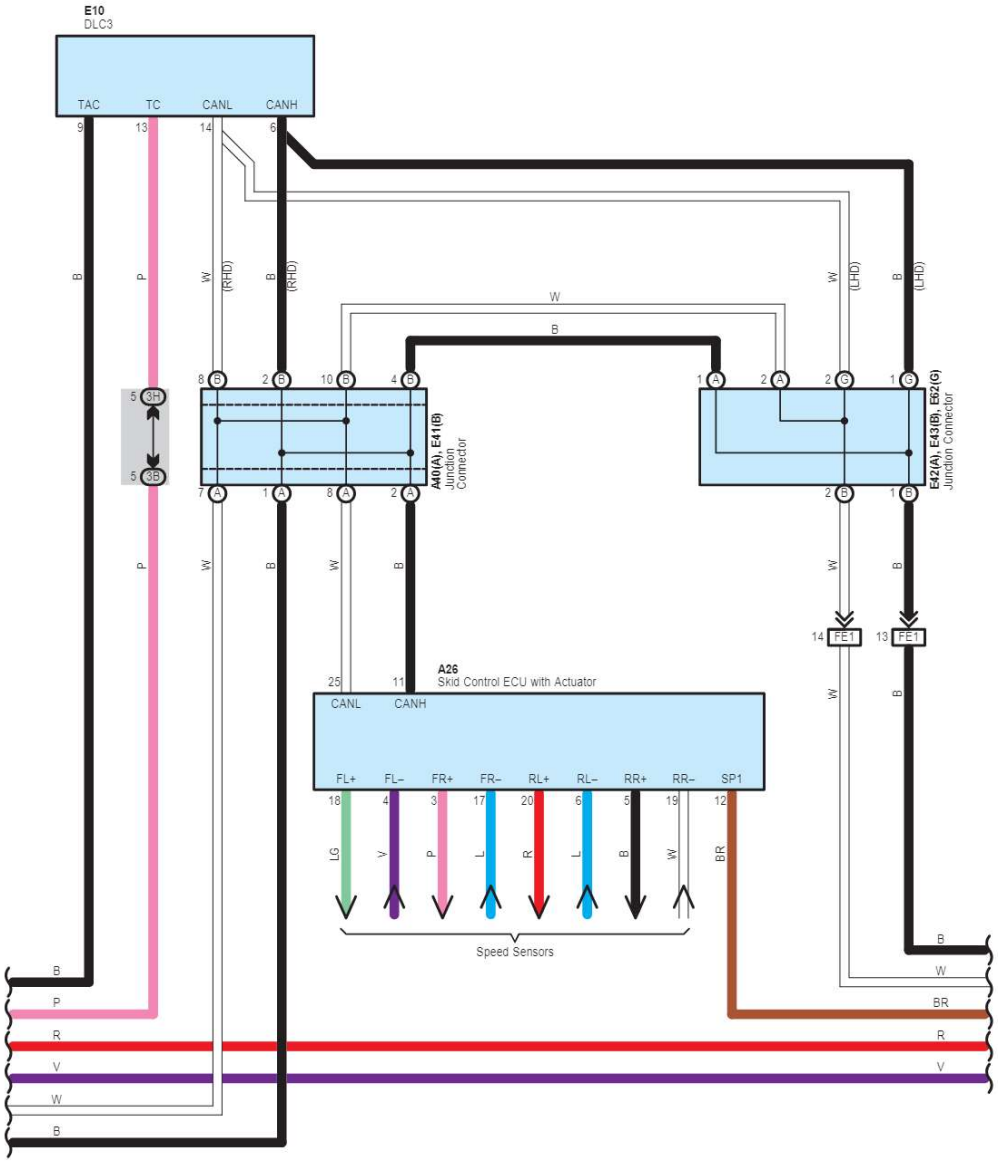

GR
Y
8 CA2
P (LHD)
P (RHD)
6 EA1
6 AE1
GR (LHD)
GR (RHD)
5 3F
5 3F
GR
ST Relay
W
LG
7 CA2
V
48 B
48 A
STA
L
B
P
N
C1
Park/Neutral Start SW
9
W
L–B
62 D
62 E
NSW
(BAT)
10A STOP
8 IC
B
2
3
1
4
L
GR
A19
Stop Lamp SW
3 A
8 B
A41(A), A42(B)
Junction Connector
W
36 B
36 A
STP
2 A
5 B
A58(A), E401(B)
Junction Connector
Y
Y
35 B (LHD)
35 A (RHD)
ST1–
A24(A), A55(B), C55(D), C58(E)
Engine ECU
ACIV
+B
+B2
MREL
NE+
NE–
A1A+
A1A–
HA1A
4 B
4 A
2 B
2 A
1 B
1 A
44 B
44 A
110 D
110 E
111 D
111 E
93 D
93 E
116 D
116 E
86 D (LHD)
86 E (RHD)
V
R
R
O
2 A
2 B
A56(A), A57(B)
Short Connector
V
2
A53
VSV (Air Intake Control)
1
B
R
R
O
B
W–L
R
(Shielded)
G
R
2
C50
Crankshaft Position Sensor
1
(Shielded)
L
P
G
3
4
1
A1A+
A1A–
HA1A
+B
2
C15
Air Fuel Ratio Sensor (Bank 1 Sensor 1)
W
B
B
B
W–L
R
(Shielded)
(Shielded)
BR
B
(Shielded)
(Shielded)
C5

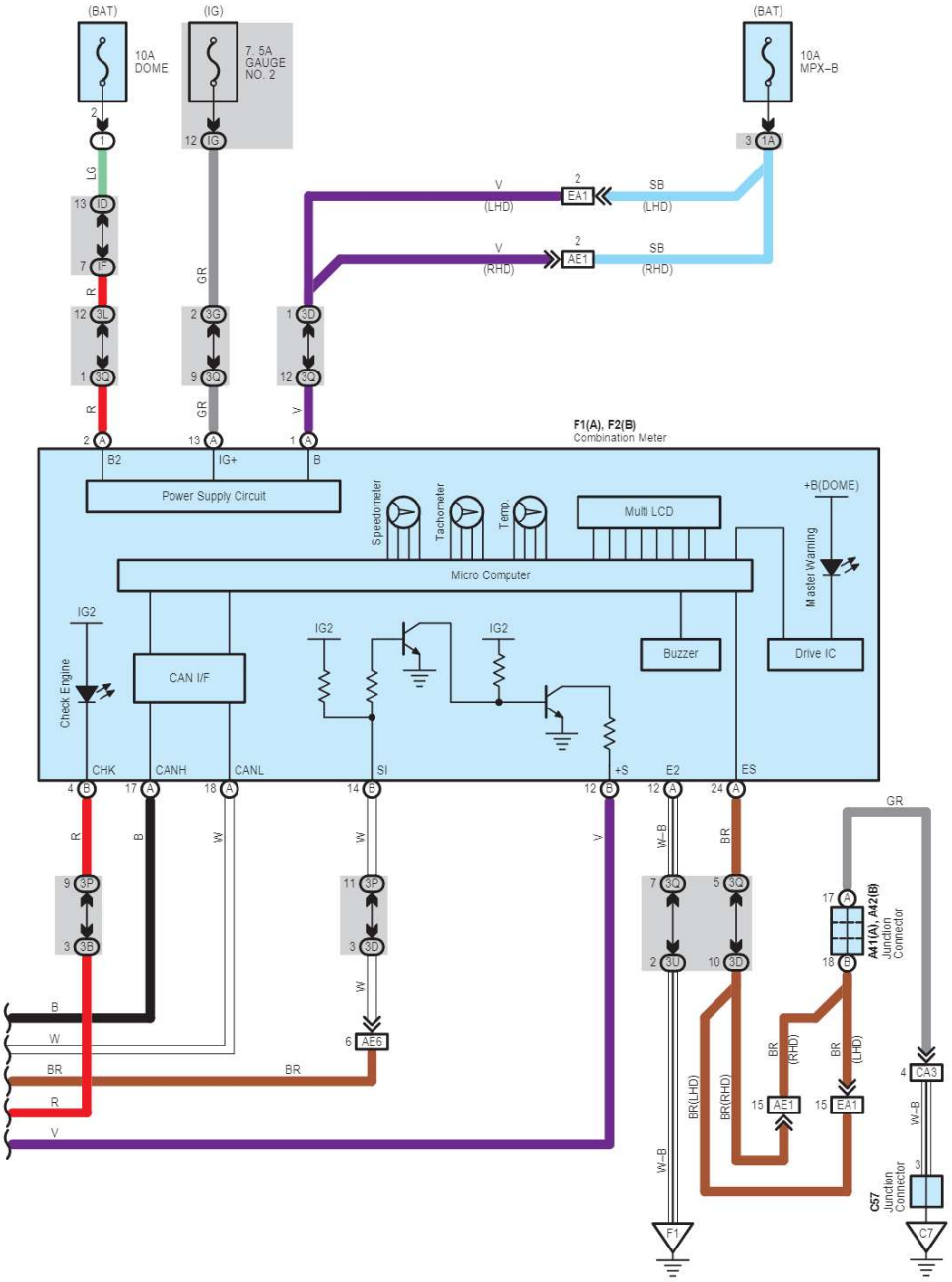

(IG)
(BAT)
10A
IGN
10A
ETCS
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
C4
EFI Water Temp. Sensor
(Shielded)
G-R
(LHD)
(RHD)
IGSW
+BM
THW
ETHW
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
A24(A), A55(B), C55(D), C58(E)
Engine ECU
A2A+
A2A–
HA2A
OX2B
EX2B
HT2B
OX1B
HT1B
EX1B
C35
Air Fuel Ratio Sensor
(Bank 2 Sensor 1)
C51
Heated Oxygen Sensor
(Bank 2 Sensor 2)
C52
Heated Oxygen Sensor
(Bank 1 Sensor 2)
+B
E2
W–L
(Shielded)


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–
EX+
EX–
VC2
L
LG
Y
W
B
R
G–R
VV1+
VV1–
VCV1
VV2+
VV2–
VCV2
EV1+
EV1–
VCE1
EV2+
EV2–
VCE2
(LHD)
(RHD)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
KNK1
EKNK
KNK2
EKN2
E02
E05
E1
E04
E01
E03
ME01
CV1
(Shielded)
V2
Knock Control Sensor
(Bank 1)
V1
Knock Control Sensor
(Bank 2)
B–W
W–B
C57
Junction
Connector
C7
C4


C56
Transmission Control ECU
CAN+
CAN–
C42
Camshaft Timing Oil Control Valve
(Bank 1 Exhaust Side)
C46
Camshaft Timing Oil Control Valve
(Bank 2 Exhaust Side)
C43
Camshaft Timing Oil Control Valve
(Bank 1 Intake Side)
C47
Camshaft Timing Oil Control Valve
(Bank 2 Intake Side)
OE1+
OE1–
OE2+
OE2–
OC1+
OC1–
OC2+
OC2–
CAN+
CAN–
(LHD)
(RHD)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
VCP2
EPA2
VCPA
EPA
VPA
VPA2
PSW
IMO
IMI
C17
Power Steering Oil
Pressure SW
AE5
AE5
EFII
EFIO
A17
Accelerator Position Sensor
E15
Transponder Key ECU


IGT1
IGF
C11 Ignition Coil (No. 1)
IGT2
IGF
C13 Ignition Coil (No. 2)
IGT3
IGF
C12 Ignition Coil (No. 3)
IGT4
IGF
C14 Ignition Coil (No. 4)
IGT5
IGF
C38 Ignition Coil (No. 5)
IGT6
IGF
C39 Ignition Coil (No. 6)
W
L
G–R
L
G
R
LG
R
P
W–L
L–B
W–L
L
L
W–L
BR
W–L
W–L
W
BR
G–R
G
LG
P
L–B
40 D
40 E
106 D
106 E
39 D
39 E
38 D
38 E
37 D
37 E
36 D
36 E
35 D (LHD)
35 E (RHD)
IGT1
IGF1
IGT2
IGT3
IGT4
IGT5
IGT6
A24(A), A55(B), C55(D), C58(E)
Engine ECU
RFC
CANH
CANL
SPD
W
TC
TACH
43 B
43 A
41 B
41 A
49 B
49 A
8 B
8 A
24 B
24 A
27 B
27 A
15 B (LHD)
15 A (RHD)
G
B
W
V
BR
P
B
6 A
5 A
A41(A) Junction Connector
5 AE5
12 AE5
6 AE5
R
P
B
L
14 AE5
V
10 3B
3 3F
V
Cooling Fan ECU
B
P
R
V
W
B


E10
DLC3
TAC
TC
CANL
CANH
9
13
14
6
B
P
W (RHD)
B (RHD)
W (LHD)
B (LHD)
W
B
5 3H
5 3B
8 B
2 B
10 B
4 B
A40(A), E41(B)
Junction Connector
1 A
2 A
2 C
1 C
E42(A), E43(B), E52(G)
Junction Connector
7 A
1 A
8 A
2 A
2 B
1 B
14 FE1
13 FE1
A26
Skid Control ECU with Actuator
25
11
CANL
CANH
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
18
4
3
17
20
6
5
19
12
LG
V
P
L
R
L
B
W
BR
Speed Sensors
B
P
R
V
W
B
B
W
BR
R
V


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
LG
GR
R
V
SB
(LHD)
(RHD)
EA1
AE1
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Tachometer
Temp.
Multi LCD
+B(DOME)
Master Warning
Micro Computer
IG2
Check Engine
CAN I/F
Buzzer
Drive IC
CHK
CANH
CANL
SI
+S
E2
ES
W-B
BR
BR(LHD)
BR(RHD)
A41(A), A42(B) Junction Connector
CA3
C57 Junction Connector
C7
F1
AE6

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 EFI water 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 ECU as a control signal.

(2) Intake air temp. signal circuit

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

(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 ECU.

(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 ECU 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 ECU as a control signal.

(5) Throttle position sensor signal circuit

The throttle body assembly detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine ECU.

(6) Vehicle speed circuit

The speed sensor detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine ECU 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 ECU. When the ignition SW is turned on, the voltage for engine ECU start–up power supply is applied to TERMINAL +B and +B2 of engine ECU via EFI relay.

(8) Intake air volume signal circuit

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

(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 ECU 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 ECU 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 ECU 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 ECU.

2. Control System

* EFI system
  The EFI system monitors the engine condition through the signals input from each sensors to the engine ECU. The control signal is sent to the engine ECU TERMINALS #10, #20, #30, #40, #50 and #60 to operate the injector (Fuel injection). The EFI system controls the fuel injection by the engine ECU 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 ECU. The best ignition timing is decided according to this data and the data memorized in the engine ECU. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6, and these signals control the ignition coil (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 ECU 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 ECU evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.
* ACIS
  The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.
* ETCS–i
  The ETCS–i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.
* VVT–i
  Controls the camshaft to an optimal valve timing in accordance with the engine condition.

3. Diagnosis System

When there is a malfunction in the engine ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the check engine warning 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 ECU memory, or else stops the engine.

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A17	57 (LHD)	C10	63 (*3)	C48	53 (*1)
	67 (RHD)	C11	53 (*1)		63 (*3)
A19	57 (LHD)		63 (*3)	C50	53 (*1)
	67 (RHD)	C12	53 (*1)		63 (*3)
A24 A	62 (*3)		63 (*3)	C51	53 (*1)
A26	52 (*1)	C13	53 (*1)		63 (*3)
	62 (*3)		63 (*3)	C52	53 (*1)
A40 A	57 (LHD)	C14	53 (*1)		63 (*3)
	67 (RHD)		63 (*3)	C55 D	53 (*1)
A41 A	57 (LHD)	C15	53 (*1)	C56	53 (*1)
	67 (RHD)		63 (*3)		63 (*3)
A42 B	57 (LHD)	C17	53 (*1)	C57	53 (*1)
	67 (RHD)		63 (*3)		63 (*3)
A43	52 (*1)	C34	53 (*1)	C58 E	63 (*3)
	62 (*3)		63 (*3)	E10	56 (LHD)
A53	52 (*1)	C35	53 (*1)		66 (RHD)
	62 (*3)		63 (*3)	E15	56 (LHD)
A55 B	52 (*1)	C36	53 (*1)		66 (RHD)
A56 A	57 (LHD)		63 (*3)	E23	56 (LHD)
	67 (RHD)	C37	53 (*1)		66 (RHD)
A57 B	57 (LHD)		63 (*3)	E40 B	56 (LHD)
	67 (RHD)	C38	53 (*1)		66 (RHD)
A58 A	57 (LHD)		63 (*3)	E41 B	56 (LHD)
	67 (RHD)	C39	53 (*1)		66 (RHD)
C1	53 (*1)		63 (*3)	E42 A	48, 56 (LHD)
	63 (*3)	C40	53 (*1)		48, 66 (RHD)
C2	53 (*1)		63 (*3)	E43 B	48, 56 (LHD)
	63 (*3)	C41	53 (*1)		48, 66 (RHD)
C4	53 (*1)		63 (*3)	E62 G	48, 56 (LHD)
	63 (*3)	C42	53 (*1)	F1 A	57 (LHD)
C5	53 (*1)		63 (*3)		67 (RHD)
	63 (*3)	C43	53 (*1)	F2 B	57 (LHD)
C6	53 (*1)		63 (*3)		67 (RHD)
	63 (*3)	C44	53 (*1)	N10	58 (LHD)
C7	53 (*1)		63 (*3)		68 (RHD)
	63 (*3)	C45	53 (*1)	V1	53 (*1)
C8	53 (*1)		63 (*3)		63 (*3)
	63 (*3)	C46	53 (*1)	V2	53 (*1)
C9	53 (*1)		63 (*3)		63 (*3)
	63 (*3)	C47	53 (*1)		
C10	53 (*1)		63 (*3)		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1G	24	
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3F		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

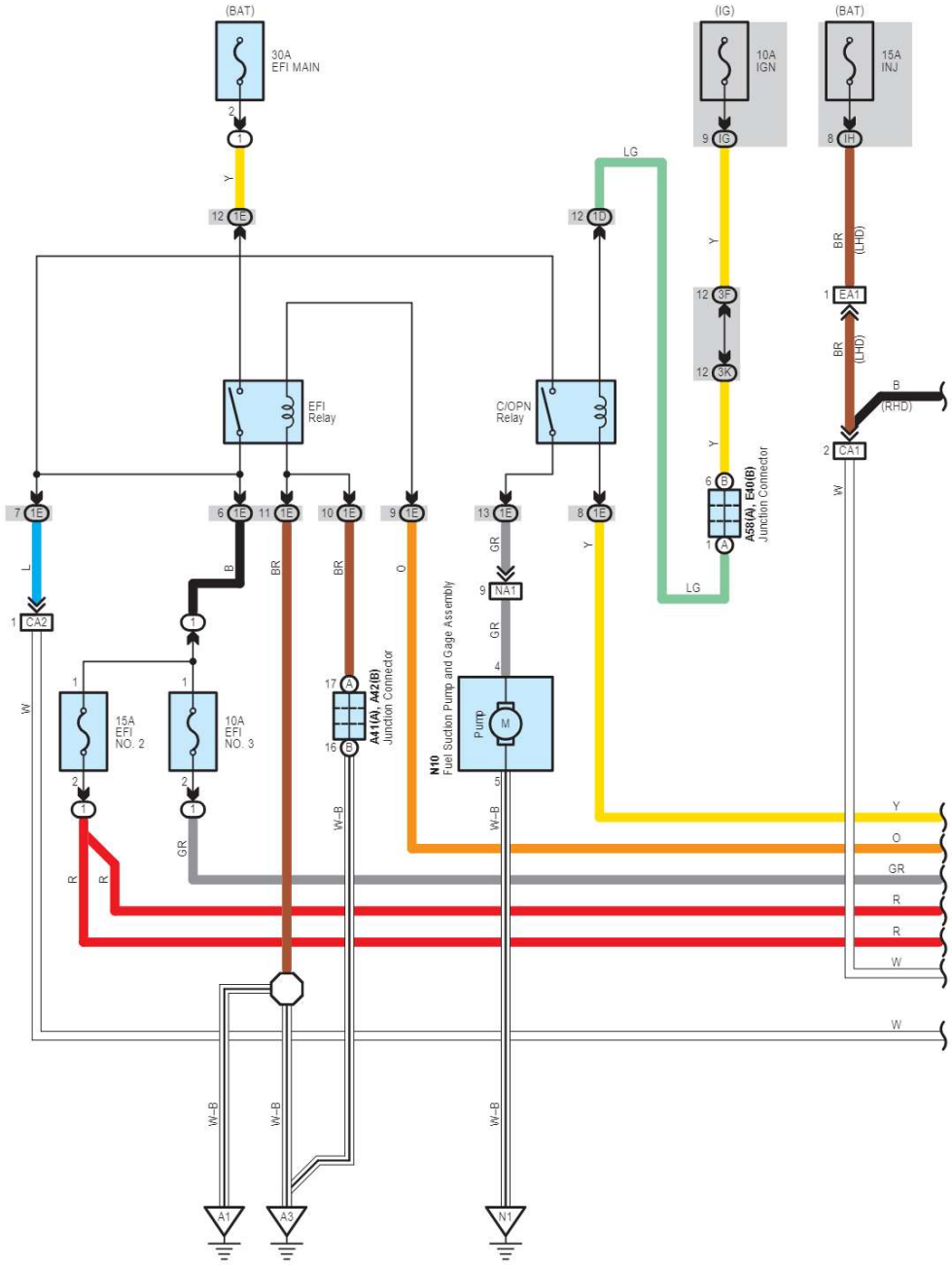
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
AE7	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA1	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	78 (*3)	
CA2	72 (*1)	
	78 (*3)	
CA3	72 (*1)	
	78 (*3)	
CV1	72 (*1)	Engine Wire and Sensor Wire (Left Side of the Cylinder Block)
	78 (*3)	Engine Wire and Sensor Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	

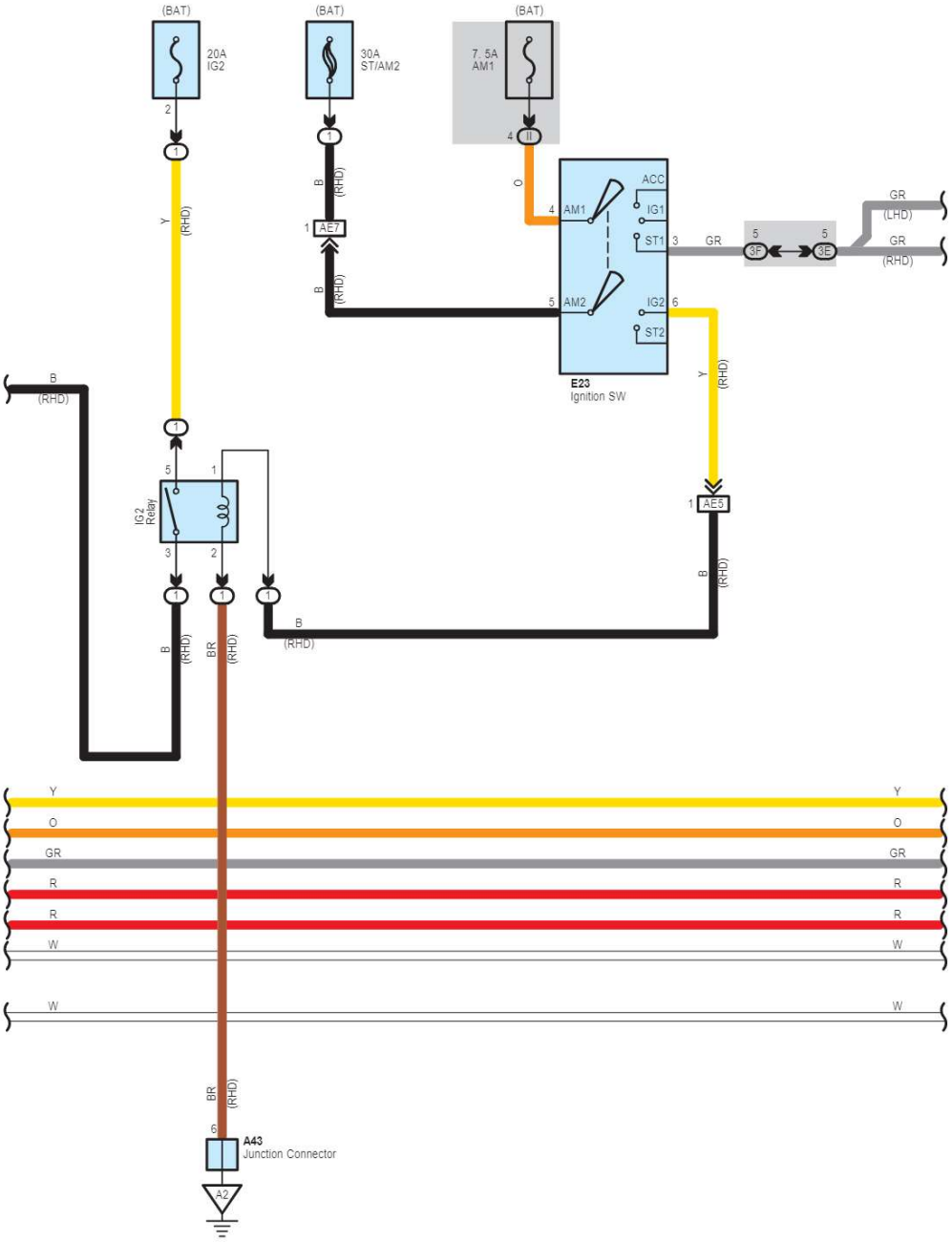
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

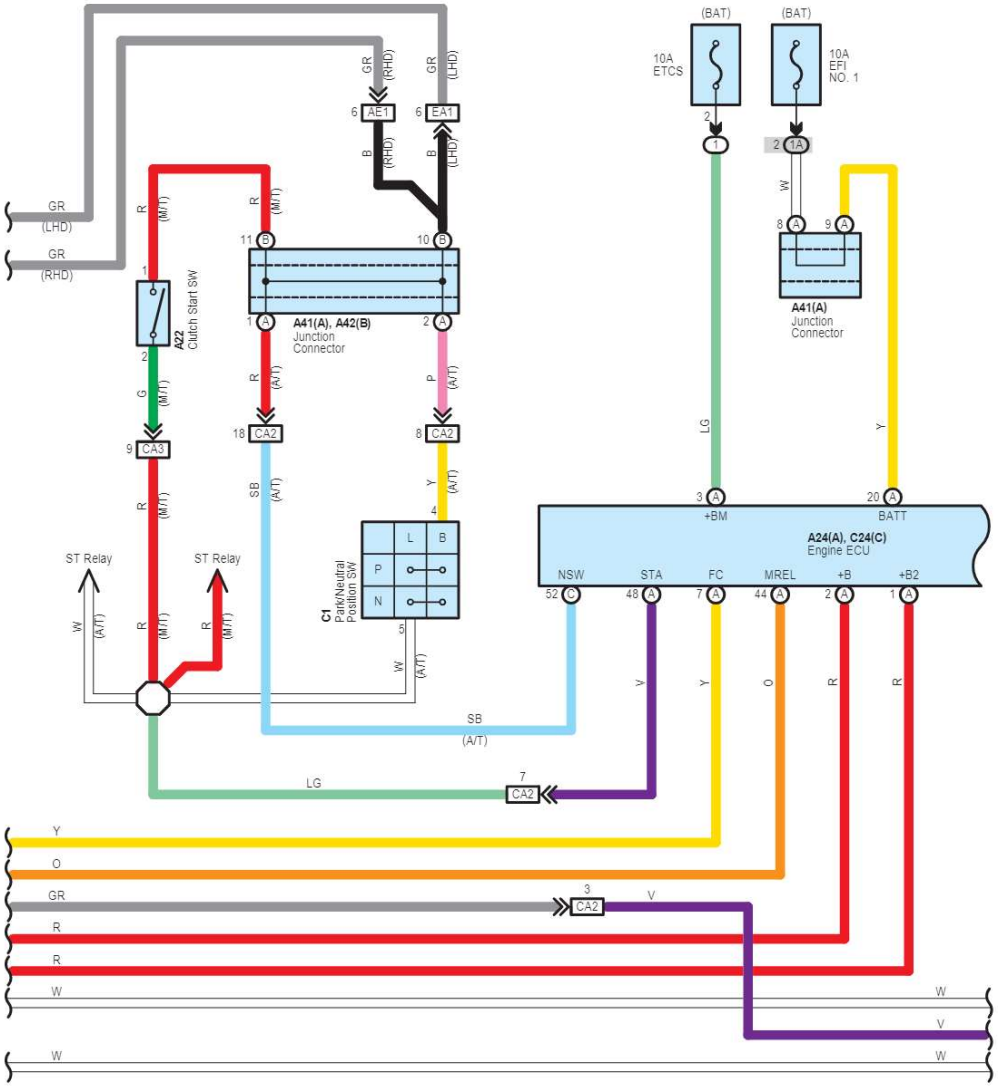
▽ : **Ground Points**

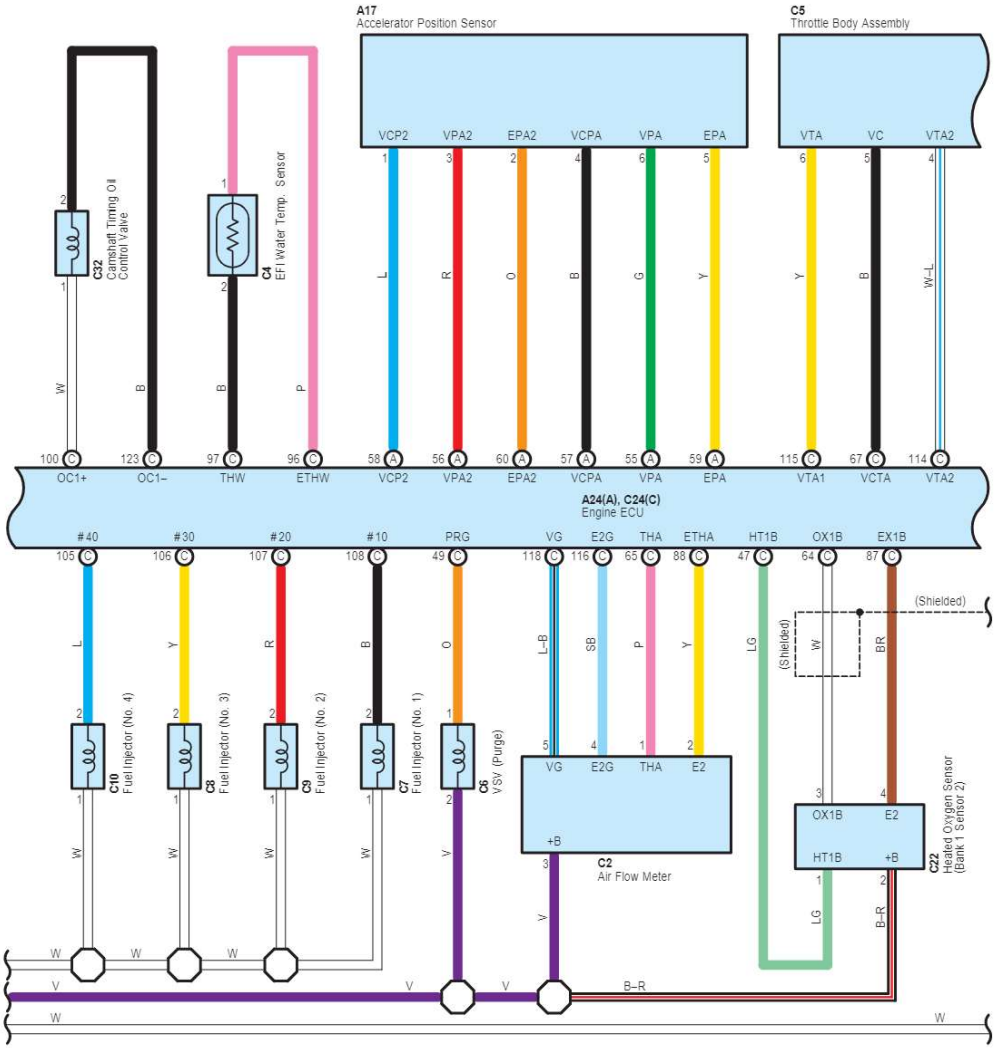
Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	78 (*3)	
A2	72 (*1)	
	78 (*3)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	72 (*1)	Cylinder Head
	78 (*3)	Front Left Side of the Cylinder Block
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	

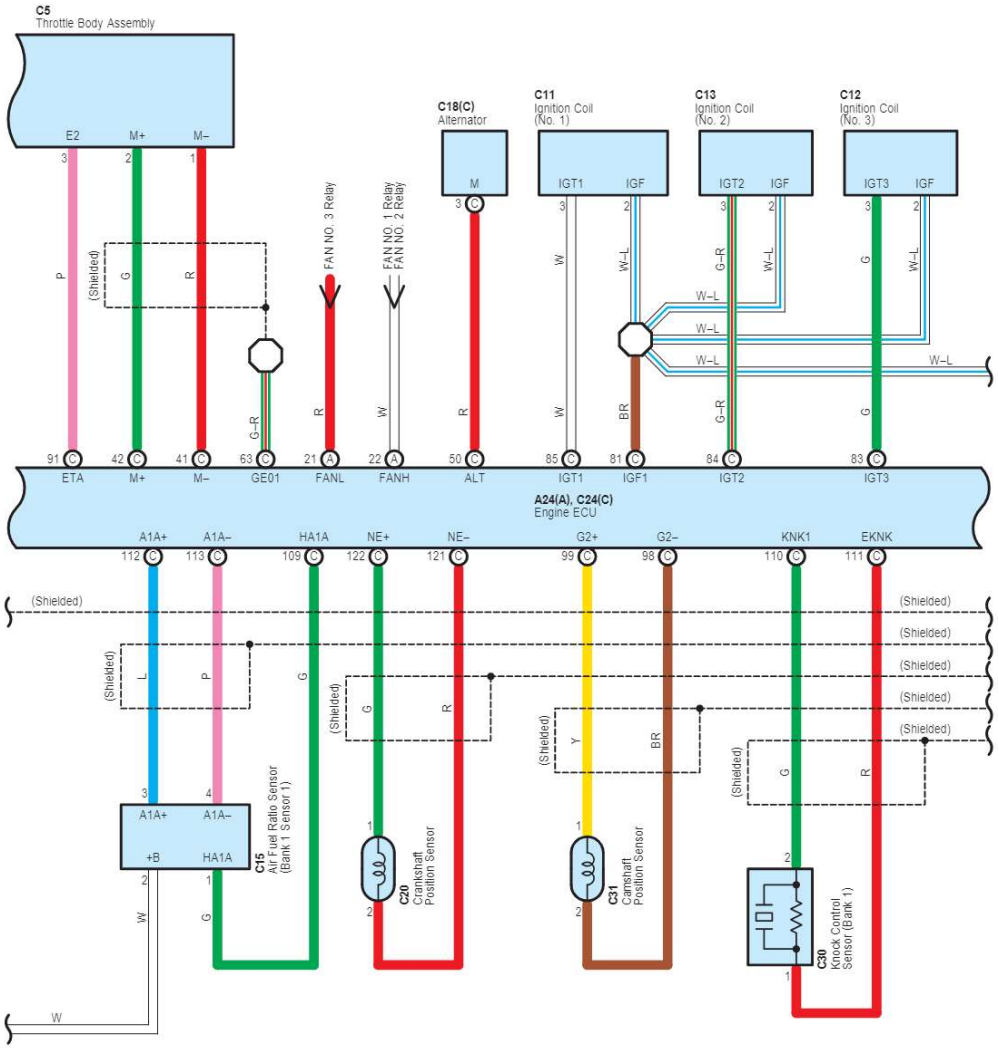
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

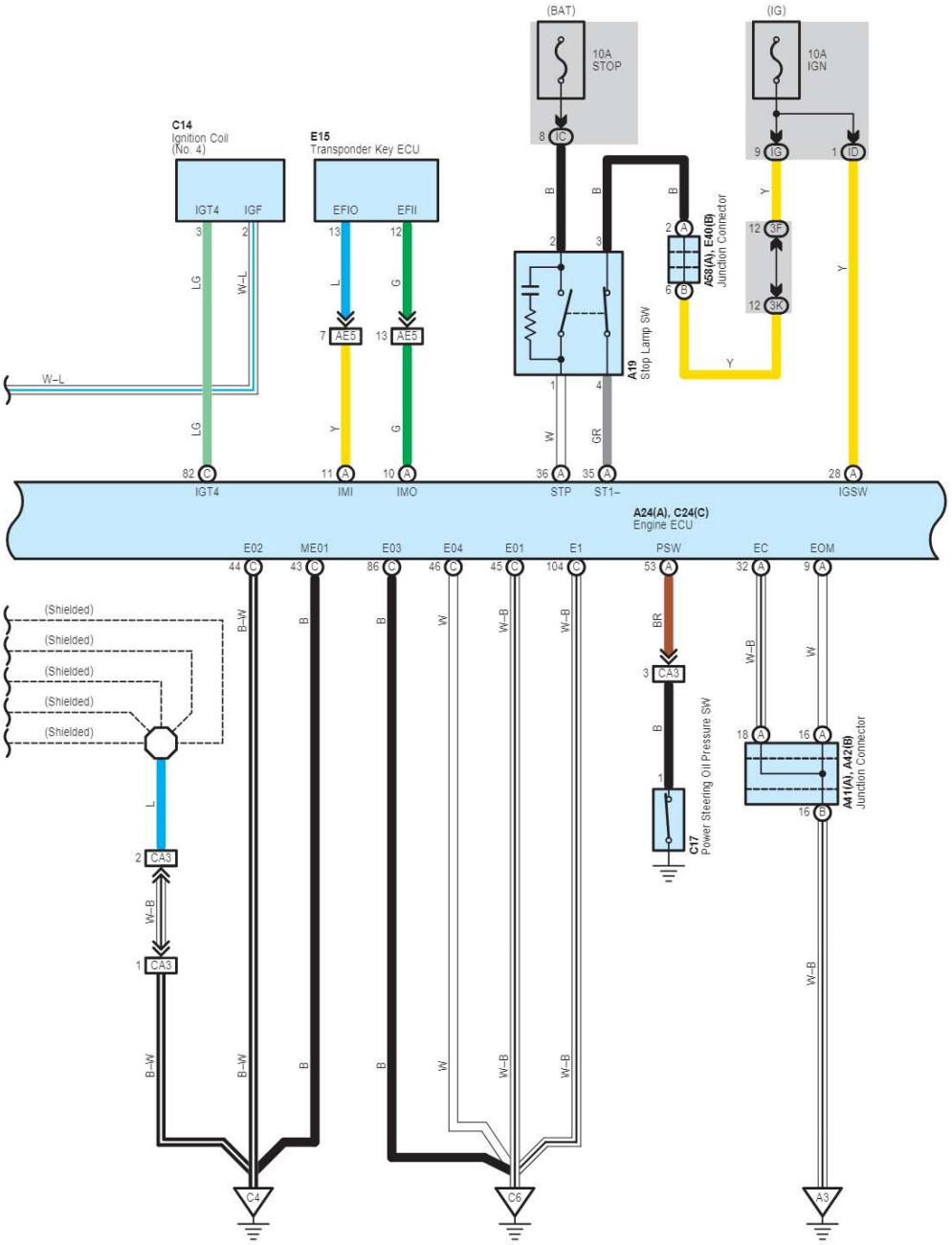

(BAT)
30A
EFI MAIN
(IG)
10A
IGN
(BAT)
15A
INJ
EFI
Relay
C/OPN
Relay
15A
EFI
NO. 2
10A
EFI
NO. 3
A41(A), A42(B)
Junction Connector
N10
Fuel Suction Pump and Gage Assembly
Pump
A58(A), E40(B)
Junction Connector
(LHD)
(RHD)
W–B
LG
Y
O
GR
R
W
B
BR
L

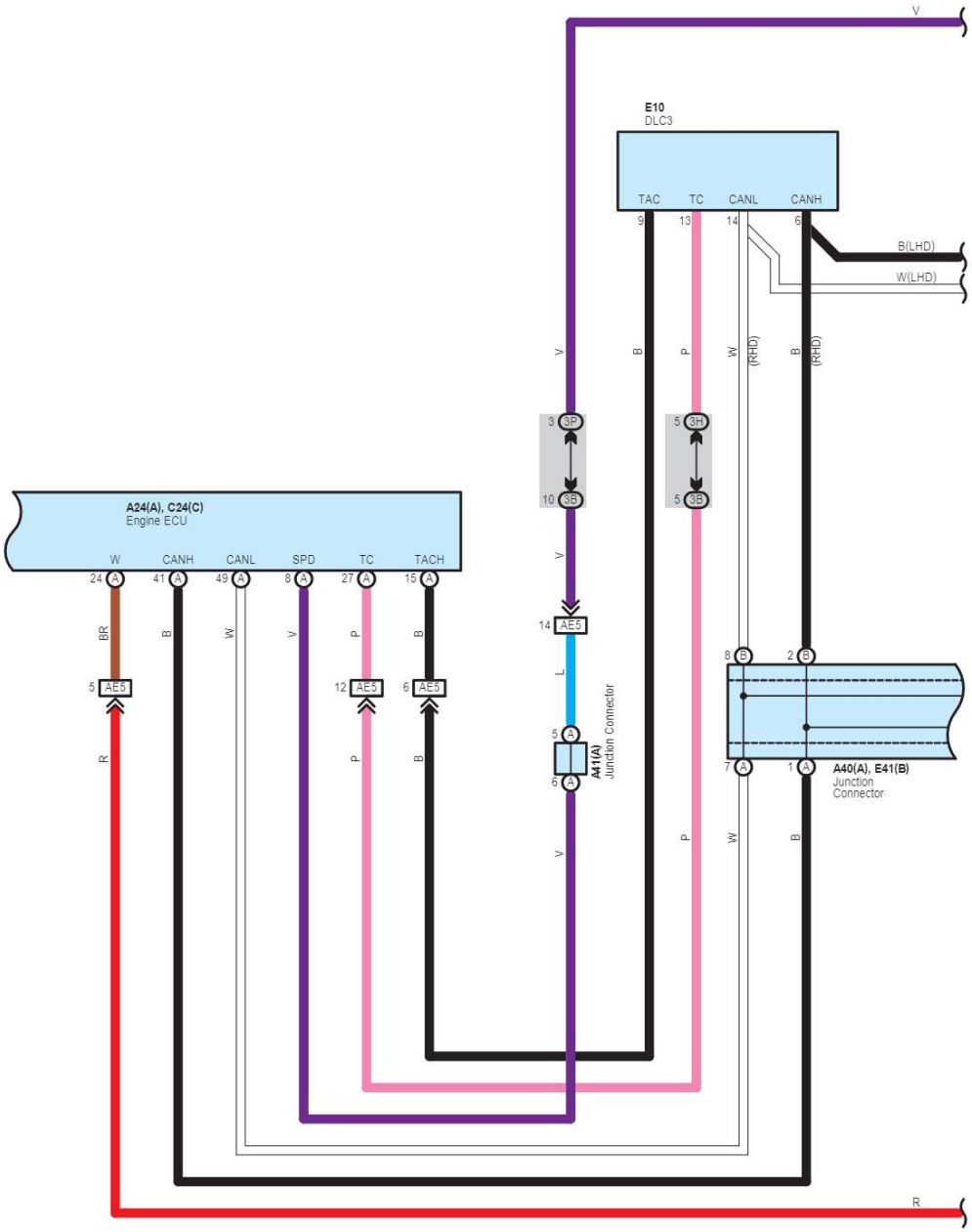

(BAT)
20A
IG2
(BAT)
30A
ST/AM2
(BAT)
7. 5A
AM1
ACC
IG1
ST1
AM1
AM2
IG2
ST2
E23
Ignition SW
GR
(LHD)
GR
(RHD)
3F
3E
AE7
AE5
IG2
Relay
B
(RHD)
Y
(RHD)
O
BR
(RHD)
W
A43
Junction Connector
A2

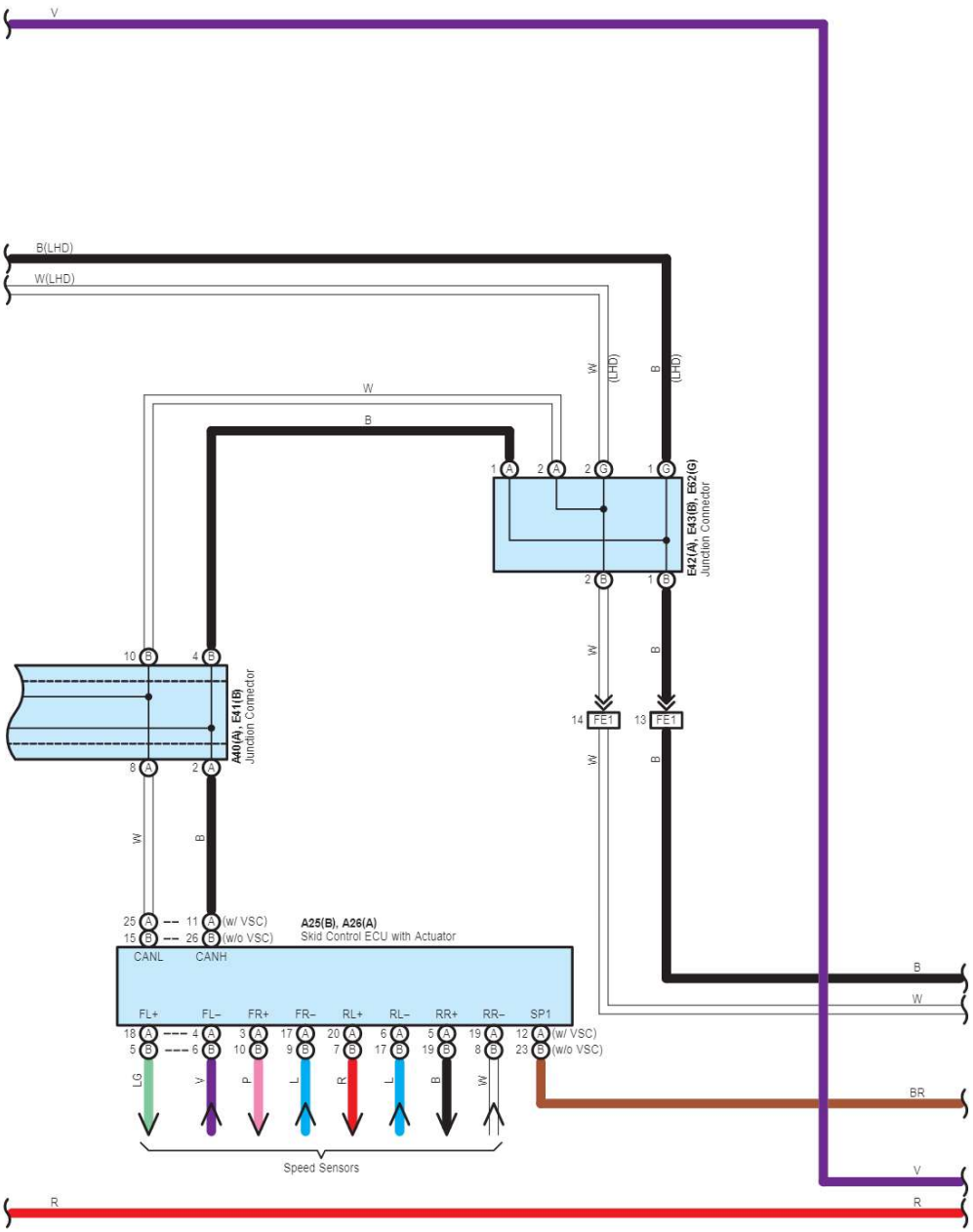

(BAT)
(BAT)
10A
ETCS
10A
EFI
NO. 1
GR
(LHD)
GR
(RHD)
6 AE1
6 EA1
B
(RHD)
B
(LHD)
R
(M/T)
R
(M/T)
11 B
10 B
1 A
A41(A), A42(B)
Junction
Connector
2 A
A41(A)
Junction
Connector
A22
Clutch Start SW
G
(M/T)
R
(A/T)
P
(A/T)
9 CA3
18 CA2
8 CA2
SB
(A/T)
Y
(A/T)
LG
Y
3 A
+BM
20 A
BATT
A24(A), C24(C)
Engine ECU
NSW
STA
FC
MREL
+B
+B2
52 C
48 A
7 A
44 A
2 A
1 A
ST Relay
ST Relay
W
(A/T)
R
(M/T)
R
(M/T)
C1
Park/Neutral
Position SW
L
B
P
N
5
W
(A/T)
SB
(A/T)
LG
7
CA2
V
Y
O
R
R
3
CA2
V
GR
Y
O
R
R
W
W
V
W
W

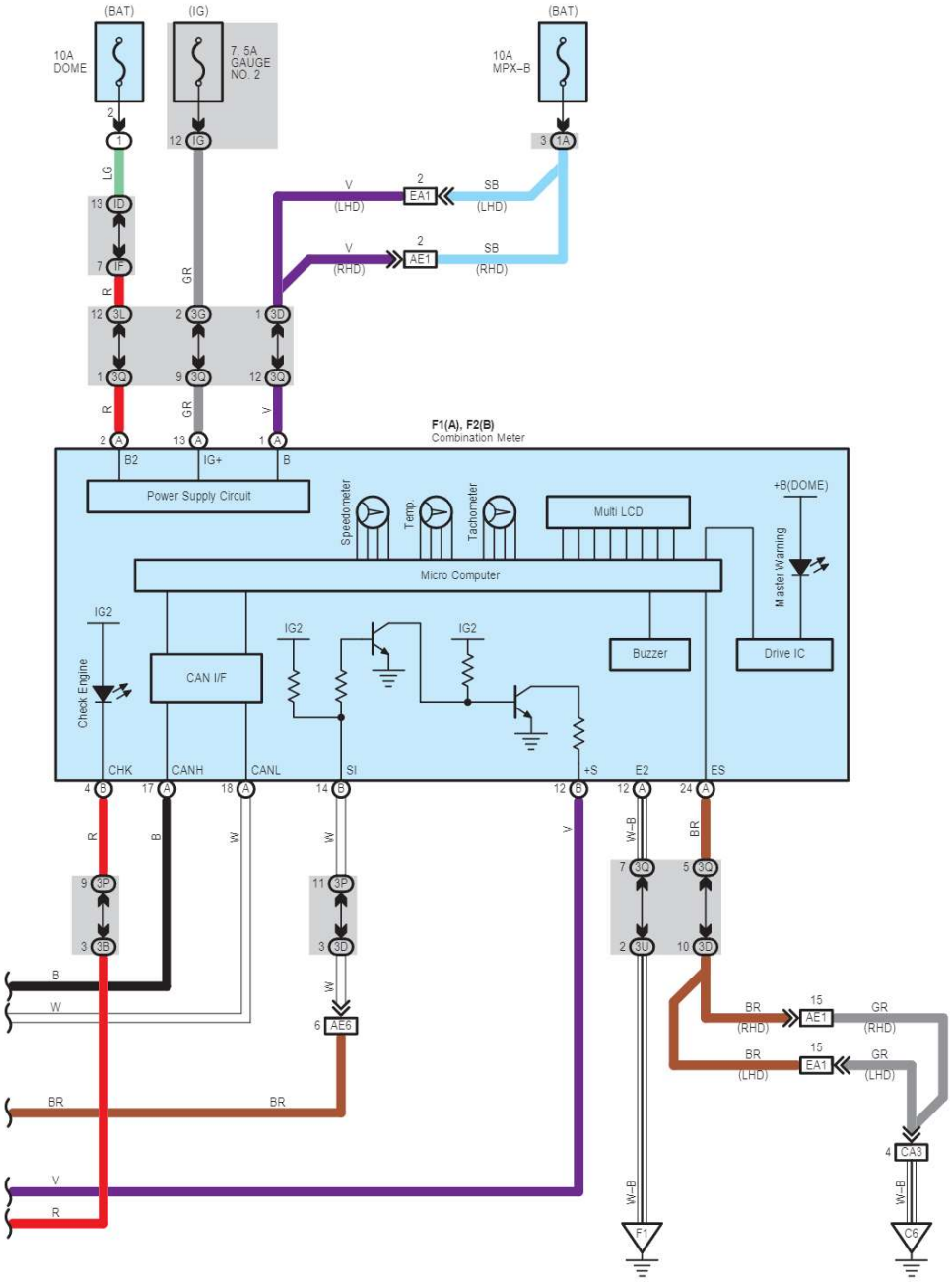

A17
Accelerator Position Sensor
C5
Throttle Body Assembly
VCP2
VPA2
EPA2
VCPA
VPA
EPA
VTA
VC
VTA2
C32
Camshaft Timing Oil Control Valve
C4
EFI Water Temp. Sensor
OC1+
OC1−
THW
ETHW
VCP2
VPA2
EPA2
VCPA
VPA
EPA
VTA1
VCTA
VTA2
A24(A), C24(C)
Engine ECU
#40
#30
#20
#10
PRG
VG
E2G
THA
ETHA
HT1B
OX1B
EX1B
C10
Fuel Injector (No. 4)
C8
Fuel Injector (No. 3)
C9
Fuel Injector (No. 2)
C7
Fuel Injector (No. 1)
C6
VSV (Purge)
C2
Air Flow Meter
C22
Heated Oxygen Sensor (Bank 1 Sensor 2)
(Shielded)


C5
Throttle Body Assembly
E2
M+
M–
C18(C)
Alternator
M
C11
Ignition Coil
(No. 1)
IGT1
IGF
C13
Ignition Coil
(No. 2)
IGT2
IGF
C12
Ignition Coil
(No. 3)
IGT3
IGF
FAN NO. 3 Relay
FAN NO. 1 Relay
FAN NO. 2 Relay
(Shielded)
P
G
R
G–R
W
W–L
BR
ETA
M+
M–
GE01
FANL
FANH
ALT
IGT1
IGF1
IGT2
IGT3
A24(A), C24(C)
Engine ECU
A1A+
A1A–
HA1A
NE+
NE–
G2+
G2–
KNK1
EKNK
L
Y
C15
Air Fuel Ratio Sensor
(Bank 1 Sensor 1)
C20
Crankshaft
Position Sensor
C31
Camshaft
Position Sensor
C30
Knock Control
Sensor (Bank 1)
+B


(BAT)
10A
STOP
(IG)
10A
IGN
C14
Ignition Coil
(No. 4)
E15
Transponder Key ECU
IGT4
IGF
EFIO
EFII
W-L
LG
L
G
Y
B
GR
W
AE5
A19
Stop Lamp SW
A58(A), E40(B)
Junction Connector
3F
3K
IC
IG
ID
IGT4
IMI
IMO
STP
ST1-
IGSW
A24(A), C24(C)
Engine ECU
E02
ME01
E03
E04
E01
E1
PSW
EC
EOM
(Shielded)
B-W
W-B
BR
CA3
C17
Power Steering Oil Pressure SW
A41(A), A42(B)
Junction Connector
C4
C6
43


V
E10
DLC3
TAC
TC
CANL
CANH
9
13
14
6
B(LHD)
W(LHD)
(RHD)
(RHD)
3 3P
10 3B
5 3H
5 3S
A24(A), C24(C)
Engine ECU
W
CANH
CANL
SPD
TC
TACH
24 A
41 A
49 A
8 A
27 A
15 A
BR
B
W
V
P
B
5 AE5
12 AE5
6 AE5
R
P
B
14 AE5
L
5 A
6 A
A41(A)
Junction Connector
8 B
2 B
7 A
1 A
A40(A), E41(B)
Junction
Connector
V
P
W
B
R


V
B(LHD)
W(LHD)
W
B
W (LHD)
B (LHD)
E42(A), E43(B), E52(G)
Junction Connector
A40(A), E41(B)
Junction Connector
14 FE1
13 FE1
A25(B), A26(A)
Skid Control ECU with Actuator
CANL
CANH
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
(w/ VSC)
(w/o VSC)
LG
V
P
L
R
L
B
W
Speed Sensors
B
W
BR
V
R
R


(BAT)
(IG)
(BAT)
10A DOME
7.5A GAUGE NO. 2
10A MPX–B
F1(A), F2(B)
Combination Meter
Power Supply Circuit
Speedometer
Temp.
Tachometer
Multi LCD
+B(DOME)
Master Warning
Micro Computer
IG2
Check Engine
CAN I/F
Buzzer
Drive IC
CHK
CANH
CANL
SI
+S
E2
ES
B2
IG+
B
V (LHD)
SB (LHD)
V (RHD)
SB (RHD)
BR (RHD)
GR (RHD)
BR (LHD)
GR (LHD)
W–B
F1
C6
CA3
EA1
AE1
AE6

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 EFI water 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 ECU as a control signal.

(2) Intake air temp. signal circuit

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

(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 ECU.

(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 ECU, and engine RPM is input into TERMINAL NE+.

(5) Throttle position signal circuit

The throttle body assembly detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine ECU.

(6) Vehicle speed circuit

The 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 ECU, Via combination meter.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine ECU. With the ignition SW turned on, the voltage for engine ECU start–up power supply is applied to TERMINALS +B and +B2 of the engine ECU 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 ECU 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 ECU as a control signal.

(10) Engine knock signal circuit

Engine knocking is detected by knock control 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 ECU.

2. Control System

* EFI system
  The EFI system monitors the engine condition through the signals input from each sensor to the engine ECU. And the control signal is output to TERMINALS #10, #20, #30, #40 of the engine ECU to operate the fuel injector (Inject the fuel). The EFI system controls the fuel injection operation by the engine ECU in response to the driving conditions.
* ESA system
  The ESA system monitors the engine condition through the signals input to the engine ECU from each sensor. The best ignition timing is decided according to this data and the memorized data in the engine ECU and the control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4. This signal controls the ignition coil (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 ECU 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 ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning 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 ECU memory or else stops the engine.

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A17	57 (LHD)	C6	55 (*2)	C24 C	65 (*4)
	67 (RHD)		65 (*4)	C30	55 (*2)
A19	57 (LHD)	C7	55 (*2)		65 (*4)
	67 (RHD)		65 (*4)	C31	55 (*2)
A22	57 (LHD)	C8	55 (*2)		65 (*4)
	67 (RHD)		65 (*4)	C32	55 (*2)
A24 A	54 (*2)	C9	55 (*2)		65 (*4)
	64 (*4)		65 (*4)	E10	56 (LHD)
A25 B	54 (*2)	C10	55 (*2)		66 (RHD)
	64 (*4)		65 (*4)	E15	56 (LHD)
A26 A	54 (*2)	C11	55 (*2)		66 (RHD)
	64 (*4)		65 (*4)	E23	56 (LHD)
A40 A	57 (LHD)	C12	55 (*2)		66 (RHD)
	67 (RHD)		65 (*4)	E40 B	56 (LHD)
A41 A	57 (LHD)	C13	55 (*2)		66 (RHD)
	67 (RHD)		65 (*4)	E41 B	56 (LHD)
A42 B	57 (LHD)	C14	55 (*2)		66 (RHD)
	67 (RHD)		65 (*4)	E42 A	48, 56 (LHD)
A43	64 (*4)	C15	55 (*2)		48, 66 (RHD)
A58 A	57 (LHD)		65 (*4)	E43 B	48, 56 (LHD)
	67 (RHD)	C17	55 (*2)		48, 66 (RHD)
C1	55 (*2)		65 (*4)	E62 G	48, 56 (LHD)
	65 (*4)	C18 C	55 (*2)	F1 A	57 (LHD)
C2	55 (*2)		65 (*4)		67 (RHD)
	65 (*4)	C20	55 (*2)	F2 B	57 (LHD)
C4	55 (*2)		65 (*4)		67 (RHD)
	65 (*4)	C22	55 (*2)	N10	58 (LHD)
C5	55 (*2)		65 (*4)		68 (RHD)
	65 (*4)	C24 C	55 (*2)		

*1 : LHD 2GR–FE *2 : LHD 2AZ–FE *3 : RHD 2GR–FE *4 : RHD 2AZ–FE

: **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3F		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

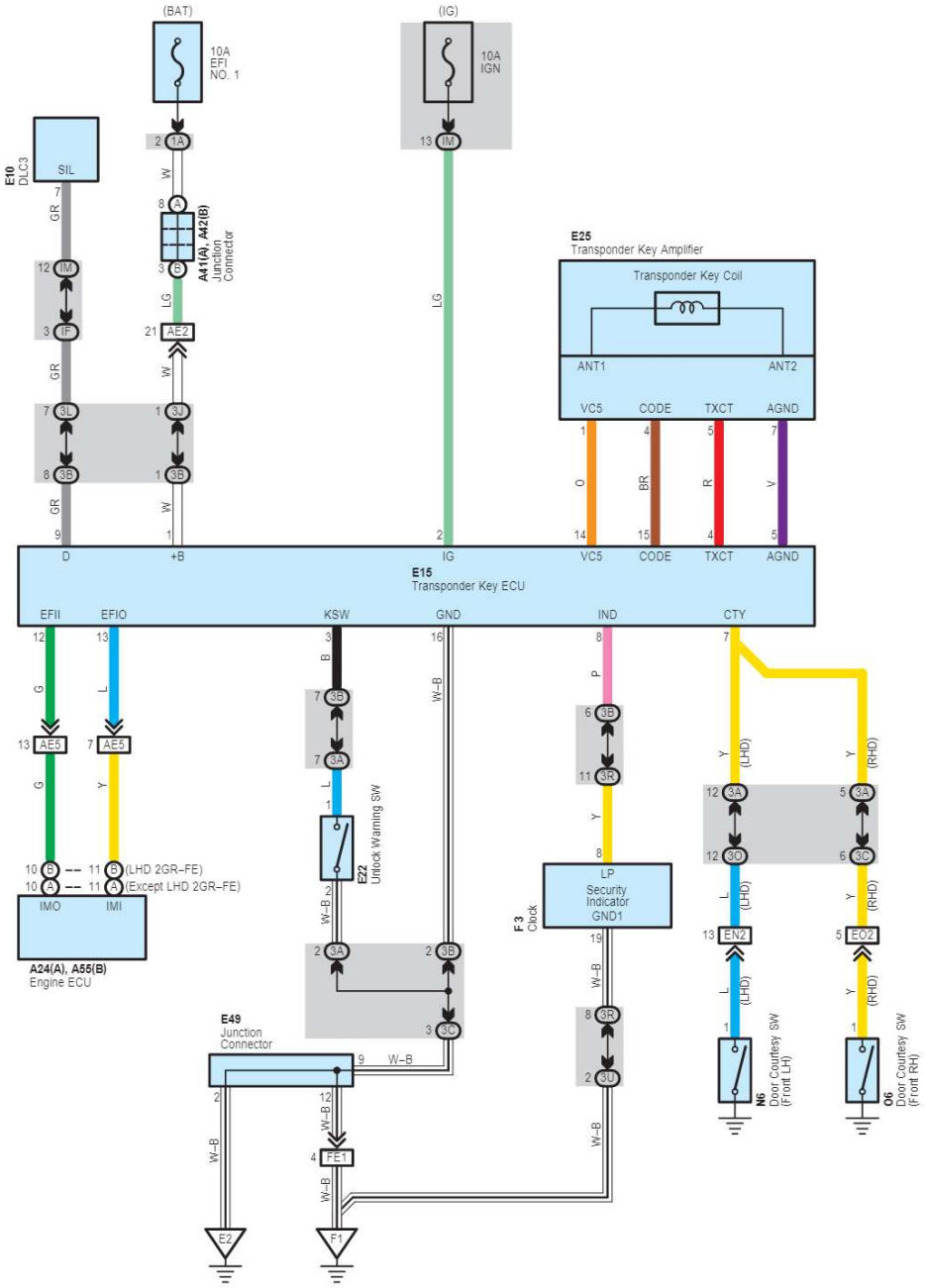
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
AE7	80 (RHD)	
CA1	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
CA2	73 (*2)	
	79 (*4)	
CA3	73 (*2)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	73 (*2)	Front Left Fender
	79 (*4)	
A2	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C6	73 (*2)	
	79 (*4)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
10A
EFI
NO. 1
(IG)
10A
IGN
E10
DLC3
SIL
A41(A), A42(B)
Junction
Connector
E25
Transponder Key Amplifier
Transponder Key Coil
ANT1
ANT2
VC5
CODE
TXCT
AGND
E15
Transponder Key ECU
D
+B
IG
EFII
EFIO
KSW
GND
IND
CTY
A24(A), A55(B)
Engine ECU
IMO
IMI
(LHD 2GR-FE)
(Except LHD 2GR-FE)
E22
Unlock Warning SW
F3
Clock
LP
Security
Indicator
GND1
(LHD)
(RHD)
N6
Door Courtesy SW
(Front LH)
O6
Door Courtesy SW
(Front RH)
E49
Junction
Connector
E2
F1

○ : **Parts Location**

Code		See Page	Code	See Page	Code	See Page
A24	A	54 (*2)	E10	56 (LHD)	E49	56 (LHD)
		62 (*3)		66 (RHD)		66 (RHD)
		64 (*4)	E15	56 (LHD)	F3	57 (LHD)
A41	A	57 (LHD)		66 (RHD)		67 (RHD)
		67 (RHD)	E22	56 (LHD)	N6	58 (LHD)
A42	B	57 (LHD)		66 (RHD)		68 (RHD)
		67 (RHD)	E25	56 (LHD)	O6	58 (LHD)
A55	B	52 (*1)		66 (RHD)		68 (RHD)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3J		
3L		
3O		
3R	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

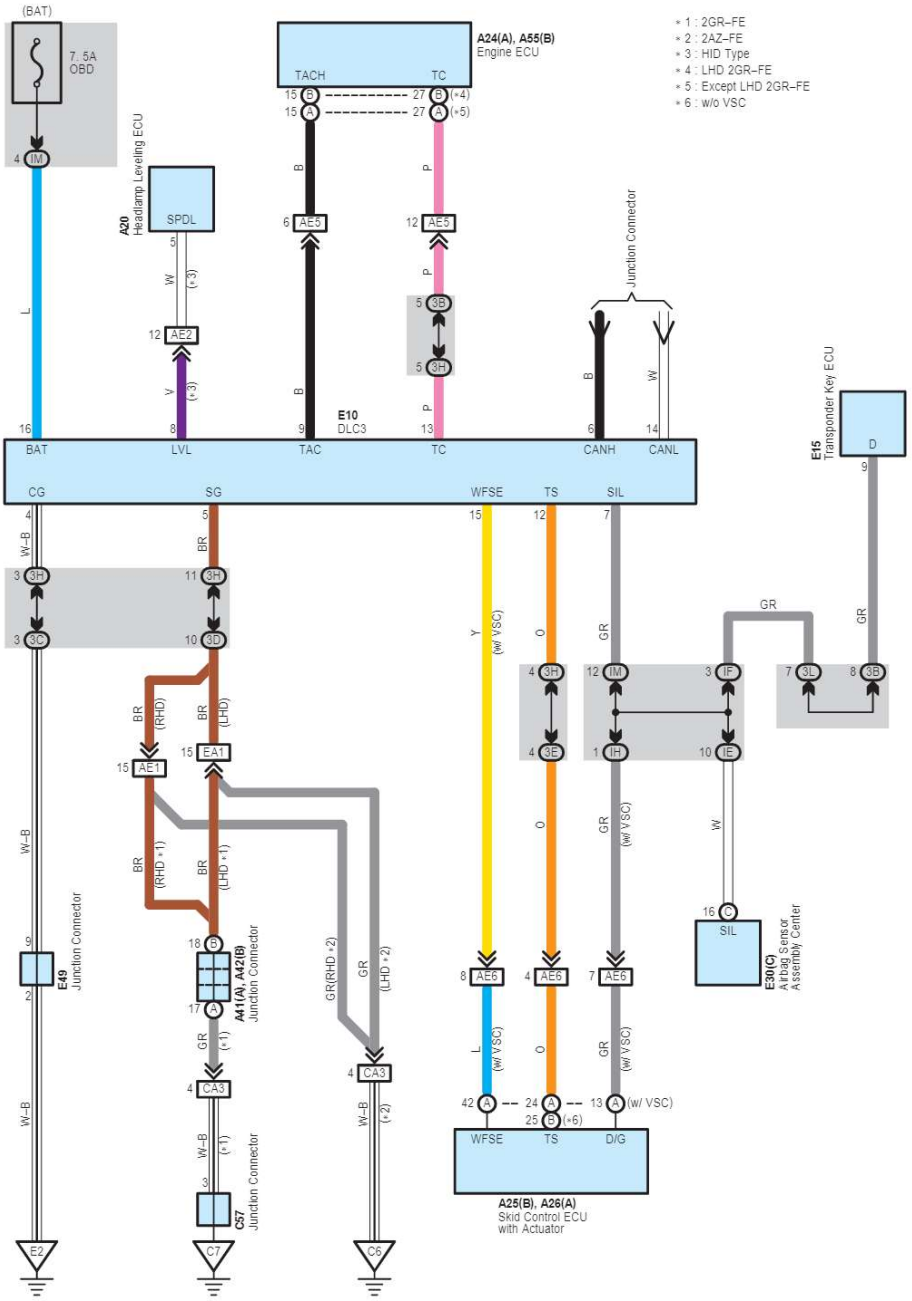
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	80 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

DLC3


(BAT)
7.5A OBD
A20 Headlamp Leveling ECU
SPDL
A24(A), A55(B) Engine ECU
TACH
TC
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : HID Type
* 4 : LHD 2GR–FE
* 5 : Except LHD 2GR–FE
* 6 : w/o VSC
Junction Connector
E10 DLC3
BAT
LVL
TAC
TC
CANH
CANL
E15 Transponder Key ECU
CG
SG
WFSE
TS
SIL
(RHD)
(LHD)
(RHD * 1)
(LHD * 1)
GR(RHD * 2)
(LHD * 2)
(w/ VSC)
E49 Junction Connector
A41(A), A42(B) Junction Connector
C57 Junction Connector
E30(C) Airbag Sensor Assembly Center
A25(B), A26(A) Skid Control ECU with Actuator
E2
C7
C6

○ : **Parts Location**

Code		See Page
A20		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		62 (*3)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	52 (*1)
		54 (*2)

Code		See Page
A26	A	62 (*3)
		64 (*4)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A55	B	52 (*1)
C57		53 (*1)
		63 (*3)

Code		See Page
E10		56 (LHD)
		66 (RHD)
E15		56 (LHD)
		66 (RHD)
E30	C	56 (LHD)
		66 (RHD)
E49		56 (LHD)
		66 (RHD)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3E		
3H		
3L		
IE	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

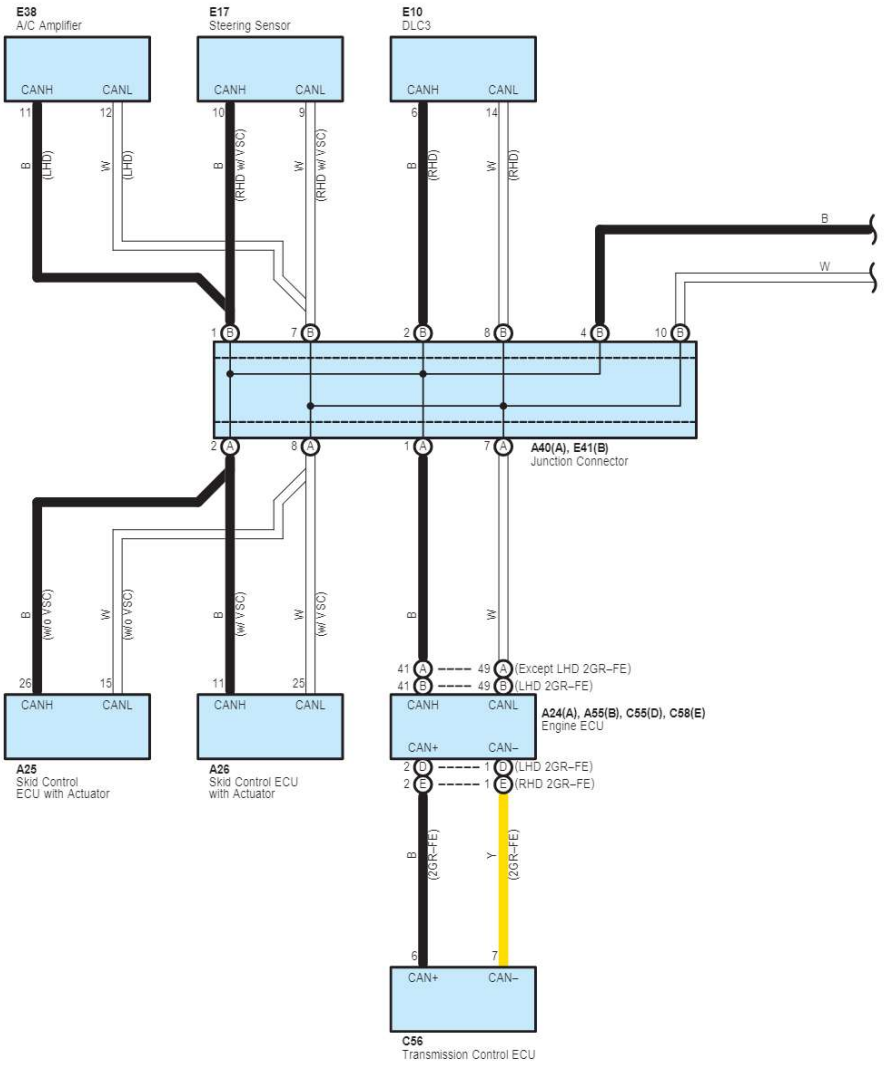
▭ : **Connector Joining Wire Harness and Wire Harness**

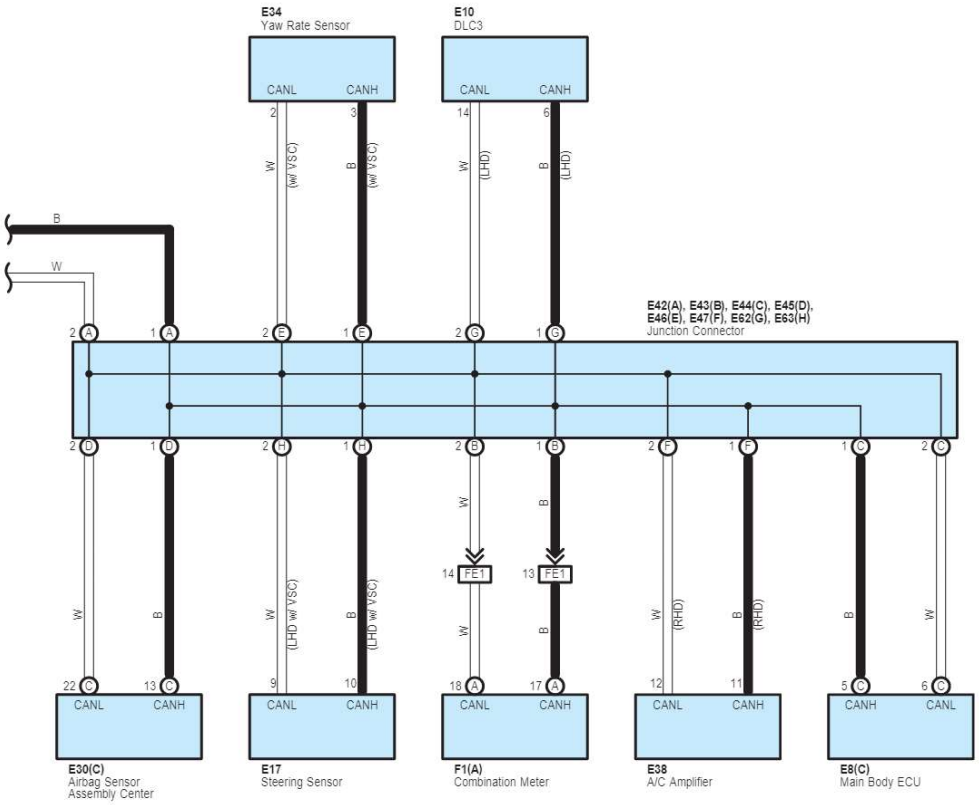
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


E38
A/C Amplifier
E17
Steering Sensor
E10
DLC3
CANH
CANL
(LHD)
(RHD w/ VSC)
(RHD)
B
W
A40(A), E41(B)
Junction Connector
(w/o VSC)
(w/ VSC)
(Except LHD 2GR–FE)
(LHD 2GR–FE)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
CAN+
CAN–
(RHD 2GR–FE)
(2GR–FE)
Y
A25
Skid Control
ECU with Actuator
A26
Skid Control ECU
with Actuator
C56
Transmission Control ECU


E34
Yaw Rate Sensor
CANL
CANH
E10
DLC3
CANL
CANH
B
W
E42(A), E43(B), E44(C), E45(D),
E46(E), E47(F), E62(G), E63(H)
Junction Connector
(w/ VSC)
(LHD)
(RHD)
FET
E30(C)
Airbag Sensor
Assembly Center
E17
Steering Sensor
F1(A)
Combination Meter
E38
A/C Amplifier
E8(C)
Main Body 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 ECU, yaw rate sensor, skid control ECU with actuator, steering sensor, DLC3, A/C amplifier, transmission control ECU, airbag sensor assembly center, combination meter and main body ECU.

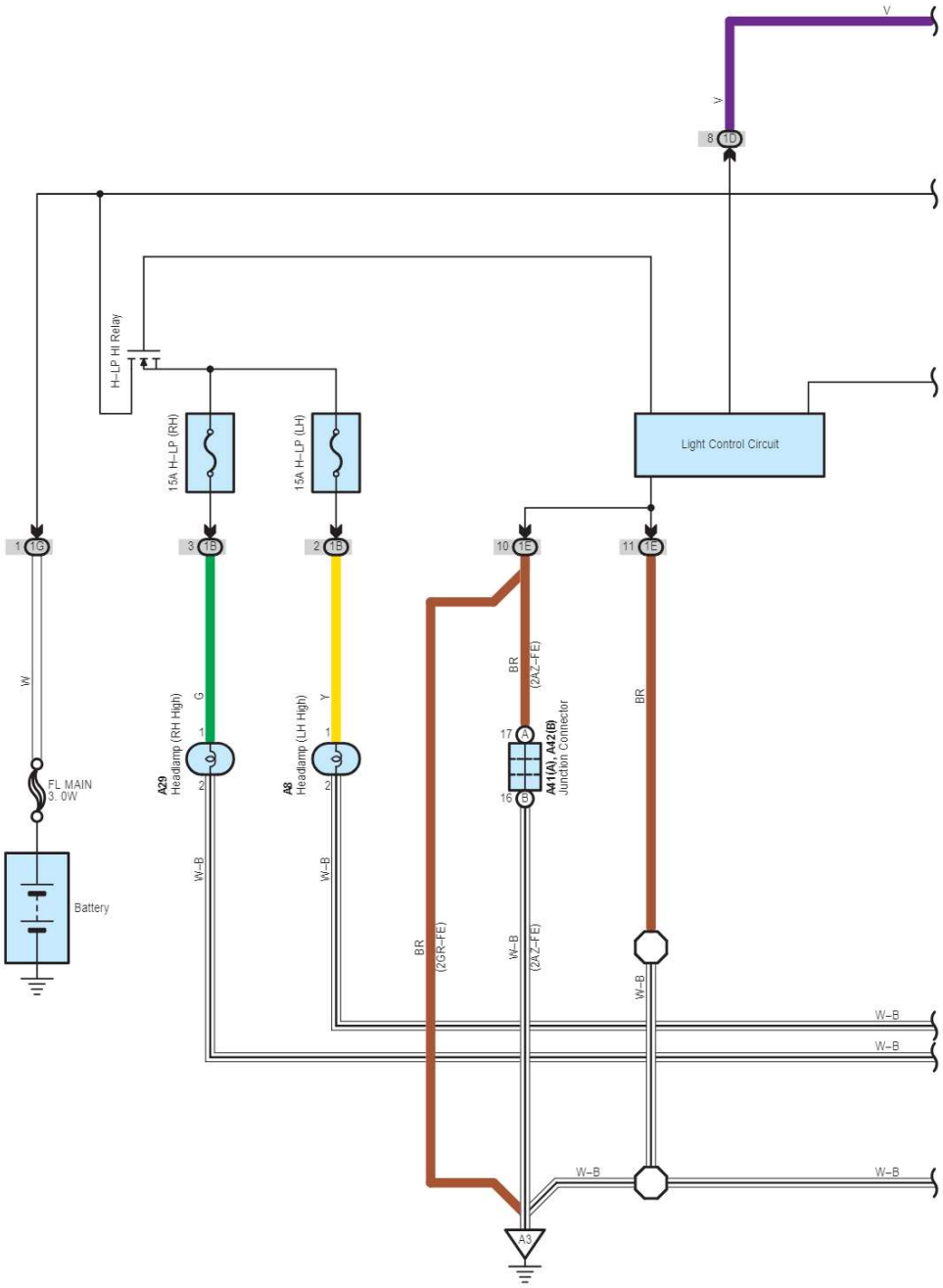
○ : **Parts Location**

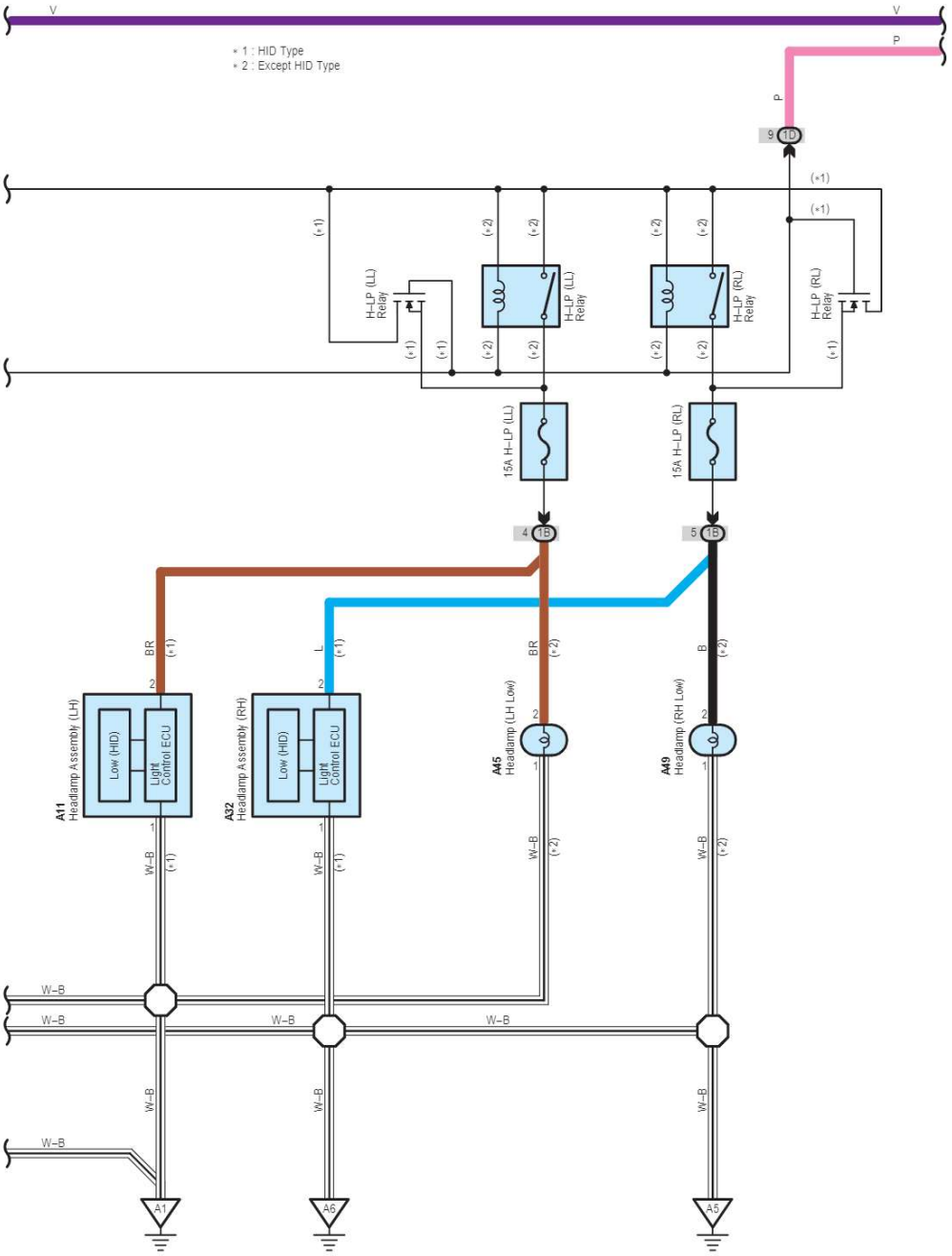
Code		See Page	Code		See Page	Code		See Page
A24	A	54 (*2)	C58	E	63 (*3)	E42	A	48, 56 (LHD)
		62 (*3)	E8	C	56 (LHD)			48, 66 (RHD)
		64 (*4)			66 (RHD)	E43	B	48, 56 (LHD)
A25		54 (*2)	E10		56 (LHD)			48, 66 (RHD)
		64 (*4)			66 (RHD)	E44	C	48, 56 (LHD)
A26		52 (*1)	E17		56 (LHD)			48, 66 (RHD)
		54 (*2)			66 (RHD)	E45	D	48, 56 (LHD)
		62 (*3)	E30	C	56 (LHD)			48, 66 (RHD)
		64 (*4)			66 (RHD)	E46	E	48, 56 (LHD)
A40	A	57 (LHD)	E34		56 (LHD)			48, 66 (RHD)
		67 (RHD)			66 (RHD)	E47	F	48, 66 (RHD)
A55	B	52 (*1)	E38		56 (LHD)	E62	G	48, 56 (LHD)
C55	D	53 (*1)			66 (RHD)	E63	H	48, 56 (LHD)
C56		53 (*1)	E41	B	56 (LHD)	F1	A	57 (LHD)
		63 (*3)			66 (RHD)			67 (RHD)

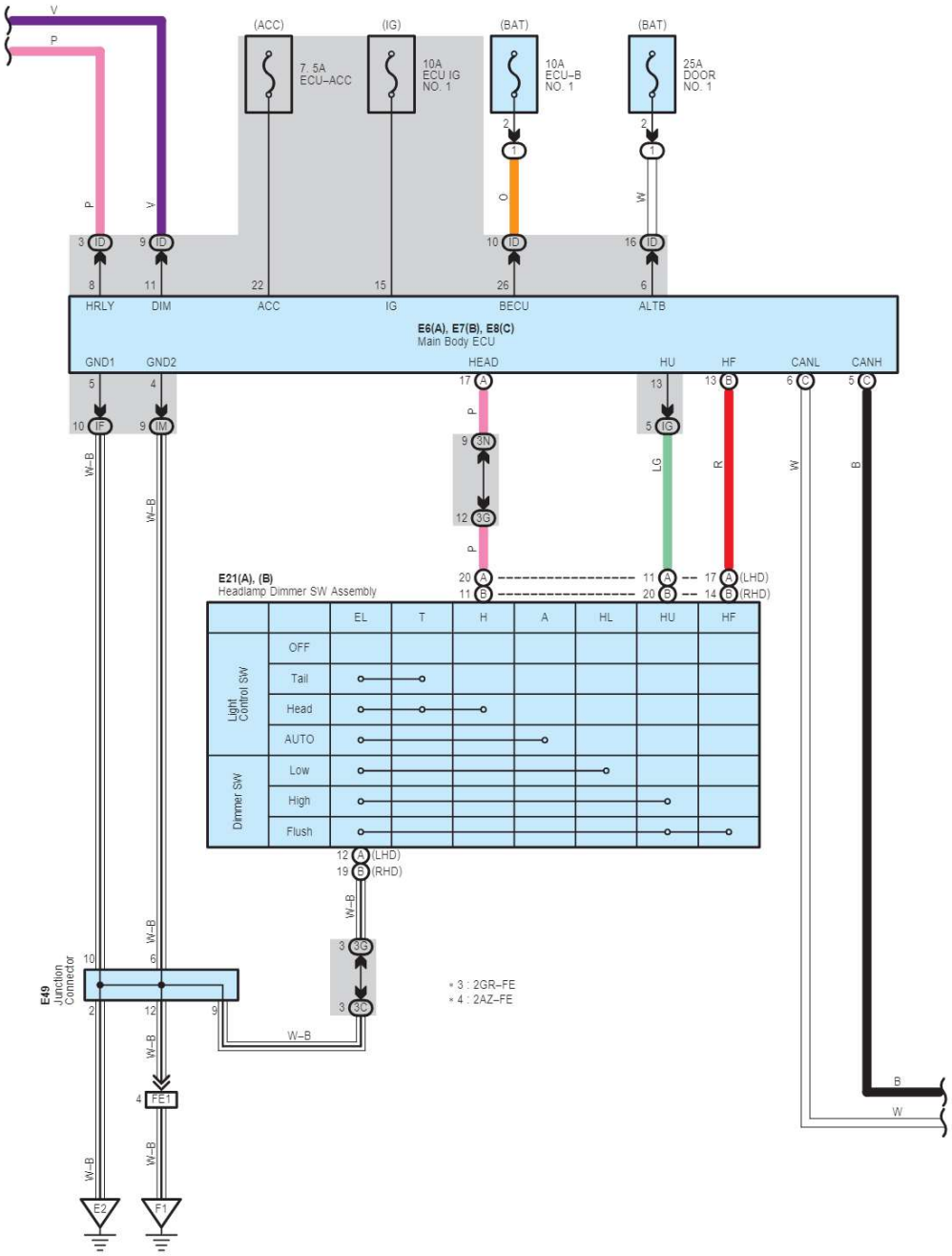
□ : **Connector Joining Wire Harness and Wire Harness**

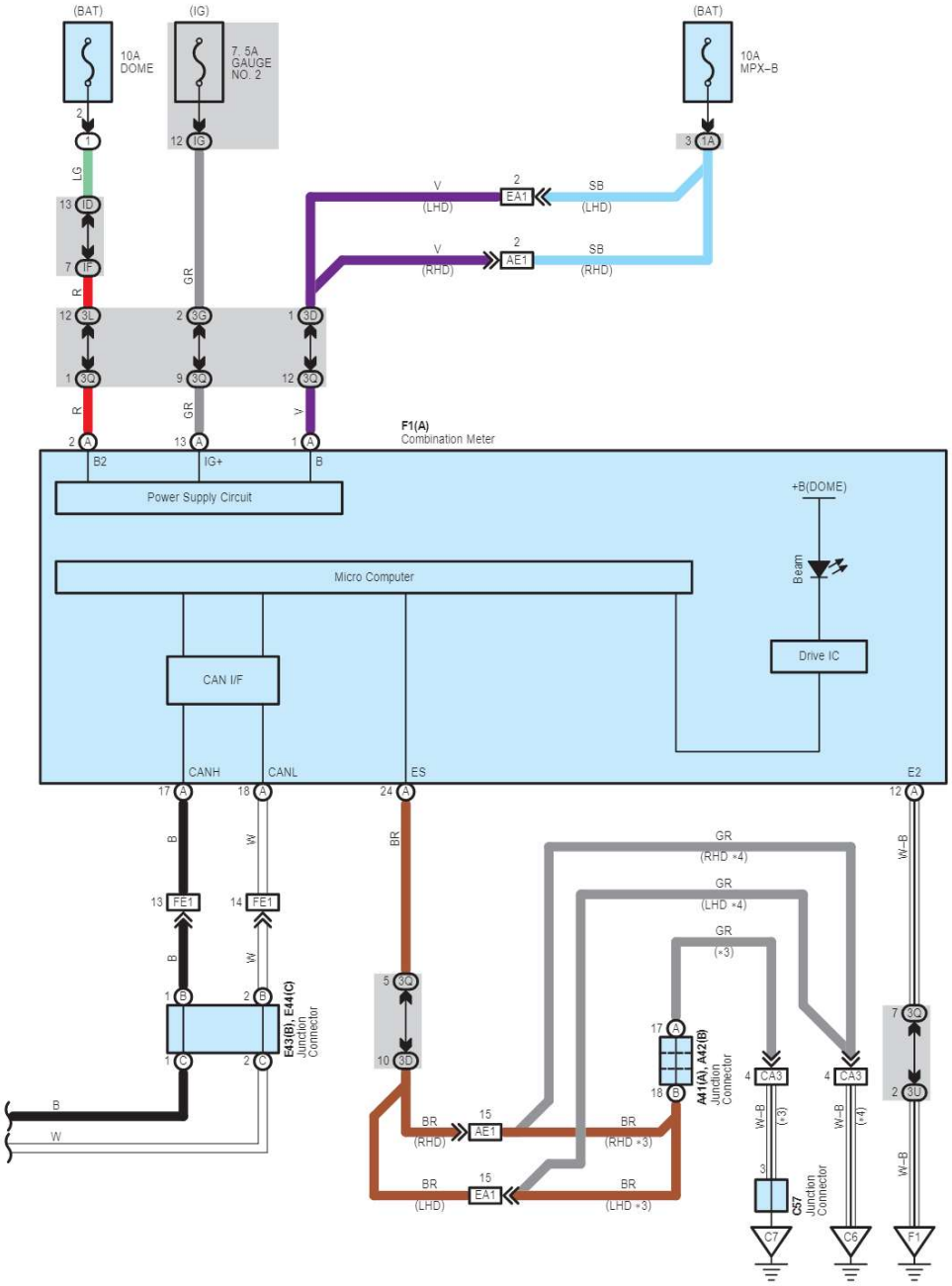
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


V
V
8 1D
H–LP HI Relay
15A H–LP (RH)
15A H–LP (LH)
Light Control Circuit
1 1G
3 1B
2 1B
10 1E
11 1E
W
FL MAIN
3. 0W
Battery
A29
Headlamp (RH High)
G
1
2
W–B
A8
Headlamp (LH High)
Y
1
2
W–B
BR
(2GR–FE)
BR
(2AZ–FE)
17 A
16 B
A41(A), A42(B)
Junction Connector
W–B
(2AZ–FE)
BR
W–B
W–B
W–B
W–B
W–B
A3


* 1 : HID Type
* 2 : Except HID Type
V
P
9 10
(*1)
(*2)
H-LP (LL) Relay
H-LP (RL) Relay
15A H-LP (LL)
15A H-LP (RL)
4 1B
5 1B
A11 Headlamp Assembly (LH)
Low (HID)
Light Control ECU
A32 Headlamp Assembly (RH)
A45 Headlamp (LH Low)
A49 Headlamp (RH Low)
BR
L
B
W-B
A1
A6
A5


(ACC)
(IG)
(BAT)
(BAT)
7. 5A
ECU–ACC
10A
ECU IG
NO. 1
10A
ECU–B
NO. 1
25A
DOOR
NO. 1
HRLY
DIM
ACC
IG
BECU
ALTB
E6(A), E7(B), E8(C)
Main Body ECU
GND1
GND2
HEAD
HU
HF
CANL
CANH
E21(A), (B)
Headlamp Dimmer SW Assembly
EL
T
H
A
HL
HU
HF
Light Control SW
Dimmer SW
OFF
Tail
Head
AUTO
Low
High
Flush
(LHD)
(RHD)
E49
Junction Connector
FE1
E2
F1
* 3 : 2GR–FE
* 4 : 2AZ–FE


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
LG
GR
R
V
SB
(LHD)
(RHD)
EA1
AE1
F1(A)
Combination Meter
B2
IG+
B
Power Supply Circuit
+B(DOME)
Beam
Micro Computer
Drive IC
CAN I/F
CANH
CANL
ES
E2
B
W
BR
GR
(RHD ×4)
(LHD ×4)
(×3)
FE1
E43(B), E44(C)
Junction
Connector
A41(A), A42(B)
Junction
Connector
CA3
W–B
(×3)
(×4)
C57
Junction
Connector
C7
C6
F1

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	52 (*1)	A32	62 (*3)	E7 B	56 (LHD)
	54 (*2)		64 (*4)		66 (RHD)
	62 (*3)	A41 A	57 (LHD)	E8 C	56 (LHD)
	64 (*4)		67 (RHD)		66 (RHD)
A11	52 (*1)	A42 B	57 (LHD)	E21 A	56 (LHD)
	54 (*2)		67 (RHD)	E21 B	66 (RHD)
	62 (*3)	A45	52 (*1)	E43 B	48, 56 (LHD)
	64 (*4)		54 (*2)		48, 66 (RHD)
A29	52 (*1)	A49	52 (*1)	E44 C	48, 56 (LHD)
	54 (*2)		54 (*2)		48, 66 (RHD)
	62 (*3)	C57	53 (*1)	E49	56 (LHD)
	64 (*4)		63 (*3)		66 (RHD)
A32	52 (*1)	E6 A	56 (LHD)	F1 A	57 (LHD)
	54 (*2)		66 (RHD)		67 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1E		
1G	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3N		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

▭ : Connector Joining Wire Harness and Wire Harness

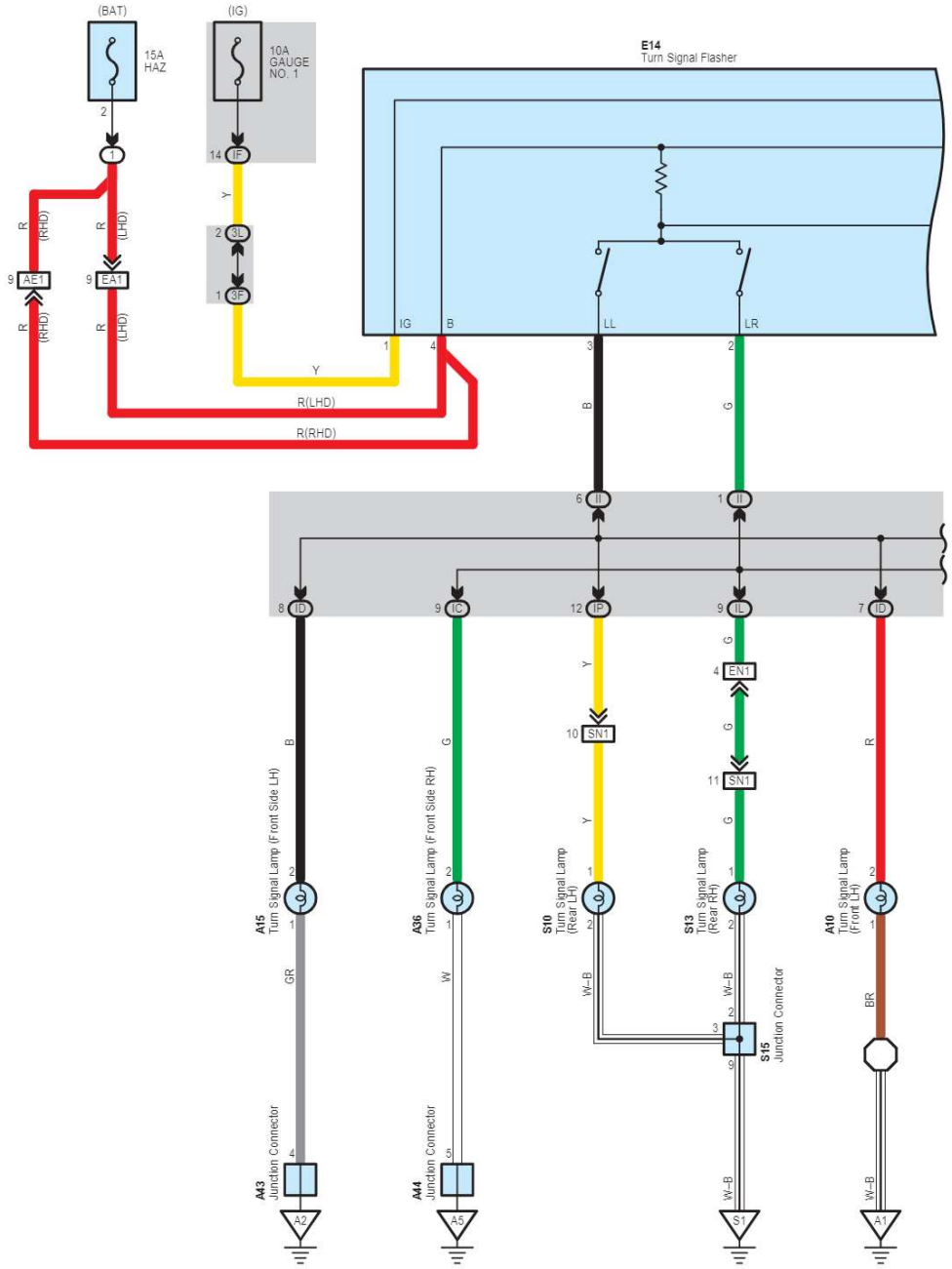
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

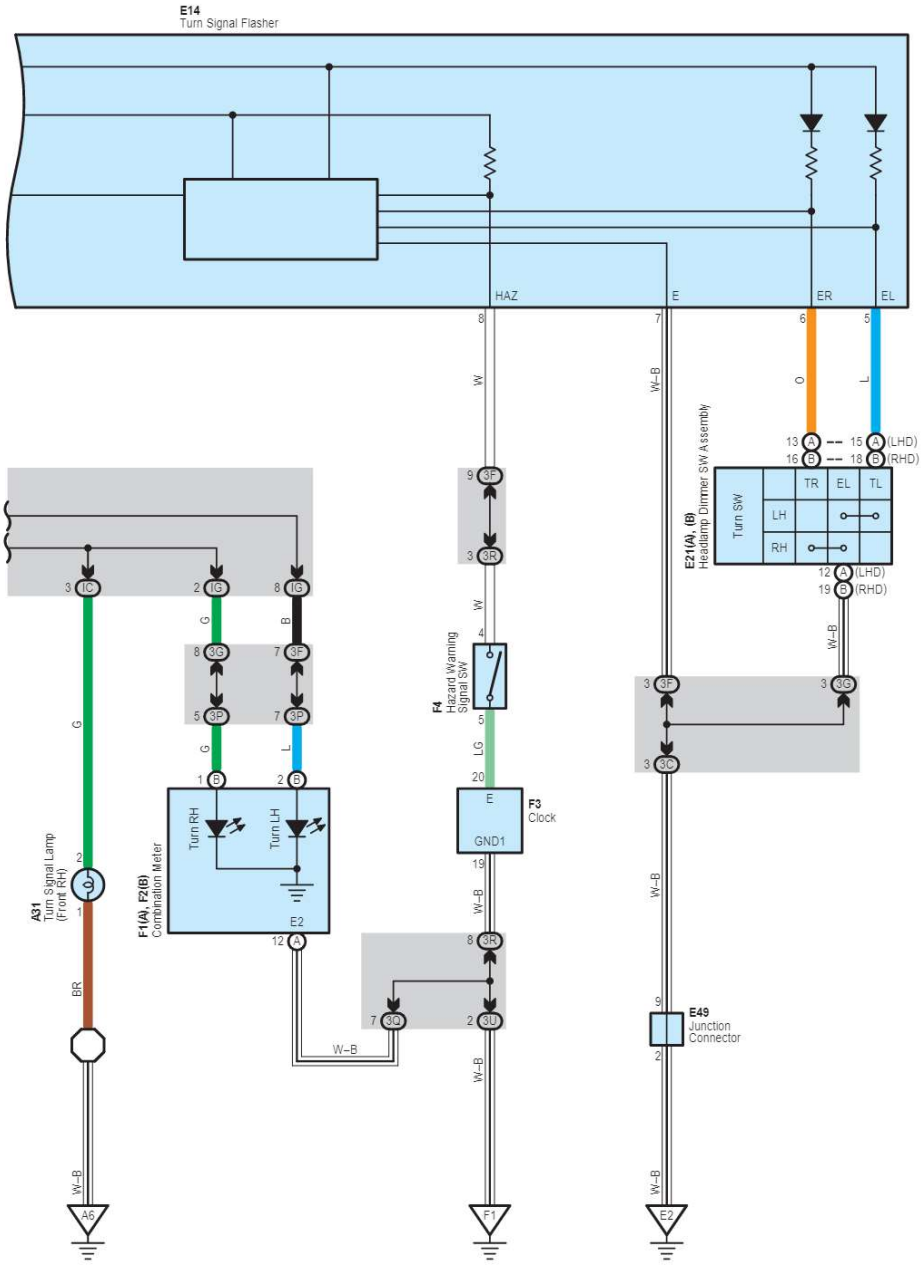
*1 : LHD 2GR–FE *2 : LHD 2AZ–FE *3 : RHD 2GR–FE *4 : RHD 2AZ–FE

▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
(IG)
15A
HAZ
10A
GAUGE
NO. 1
E14
Turn Signal Flasher
IG
B
LL
LR
R(LHD)
R(RHD)
A15
Turn Signal Lamp (Front Side LH)
A36
Turn Signal Lamp (Front Side RH)
S10
Turn Signal Lamp
(Rear LH)
S13
Turn Signal Lamp
(Rear RH)
A10
Turn Signal Lamp
(Front LH)
A43
Junction Connector
A44
Junction Connector
S15
Junction Connector


E14
Turn Signal Flasher
HAZ
E
ER
EL
W
W–B
O
L
13 A
16 B
15 A (LHD)
18 B (RHD)
E21(A), (B)
Headlamp Dimmer SW Assembly
Turn SW
TR
EL
TL
LH
RH
12 A (LHD)
19 B (RHD)
9 3P
3 3R
4
F4
Hazard Warning Signal SW
5
LG
20
E
F3
Clock
GND1
19
3 1C
2 1G
8 1G
G
B
8 3G
7 3F
5 3P
7 3P
L
1 B
2 B
Turn RH
Turn LH
E2
12 A
A31
Turn Signal Lamp (Front RH)
2
1
BR
W–B
A6
F1(A), F2(B)
Combination Meter
8 3R
7 3Q
2 3U
W–B
3 3F
3 3G
3 3C
9
E49
Junction Connector
2
W–B
E2
W–B
F1

Turn Signal and Hazard Warning Light

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A10	52 (*1)	A36	64 (*4)	F1 A	57 (LHD)
	54 (*2)	A43	52 (*1)		67 (RHD)
	62 (*3)		54 (*2)	F2 B	57 (LHD)
	64 (*4)		62 (*3)		67 (RHD)
A15	52 (*1)		64 (*4)	F3	57 (LHD)
	54 (*2)	A44	52 (*1)		67 (RHD)
	62 (*3)		54 (*2)	F4	57 (LHD)
	64 (*4)		62 (*3)		67 (RHD)
A31	52 (*1)		64 (*4)	S10	59 (LHD)
	54 (*2)	E14	56 (LHD)		69 (RHD)
	62 (*3)		66 (RHD)	S13	59 (LHD)
	64 (*4)	E21 A	56 (LHD)		69 (RHD)
A36	52 (*1)	E21 B	66 (RHD)	S15	59 (LHD)
	54 (*2)	E49	56 (LHD)		69 (RHD)
	62 (*3)		66 (RHD)		

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
3G		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3R		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

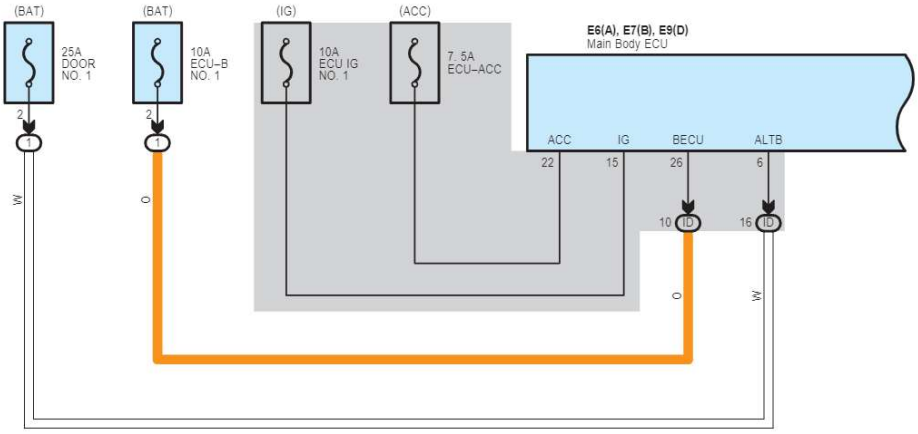
: **Connector Joining Wire Harness and Wire Harness**

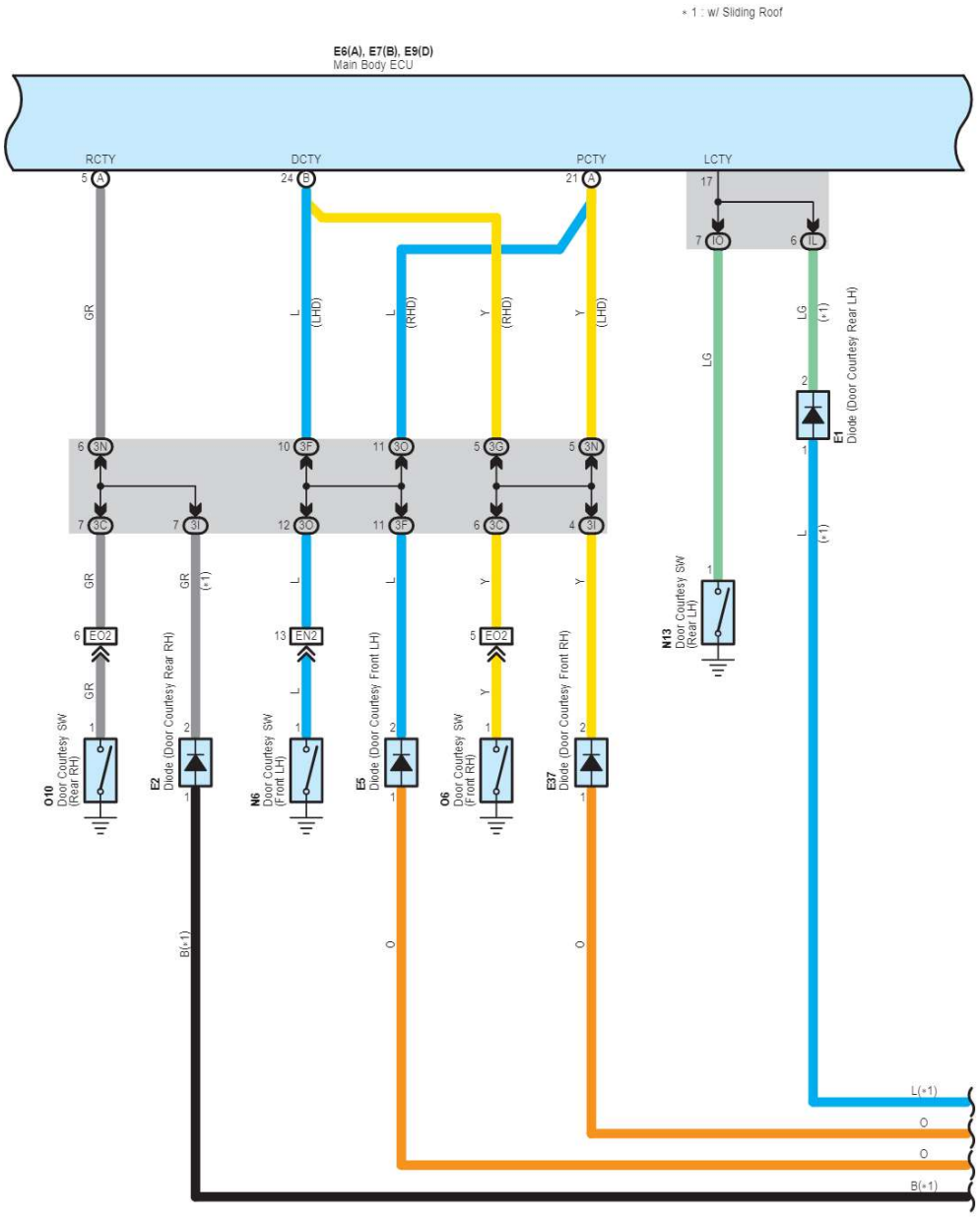
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

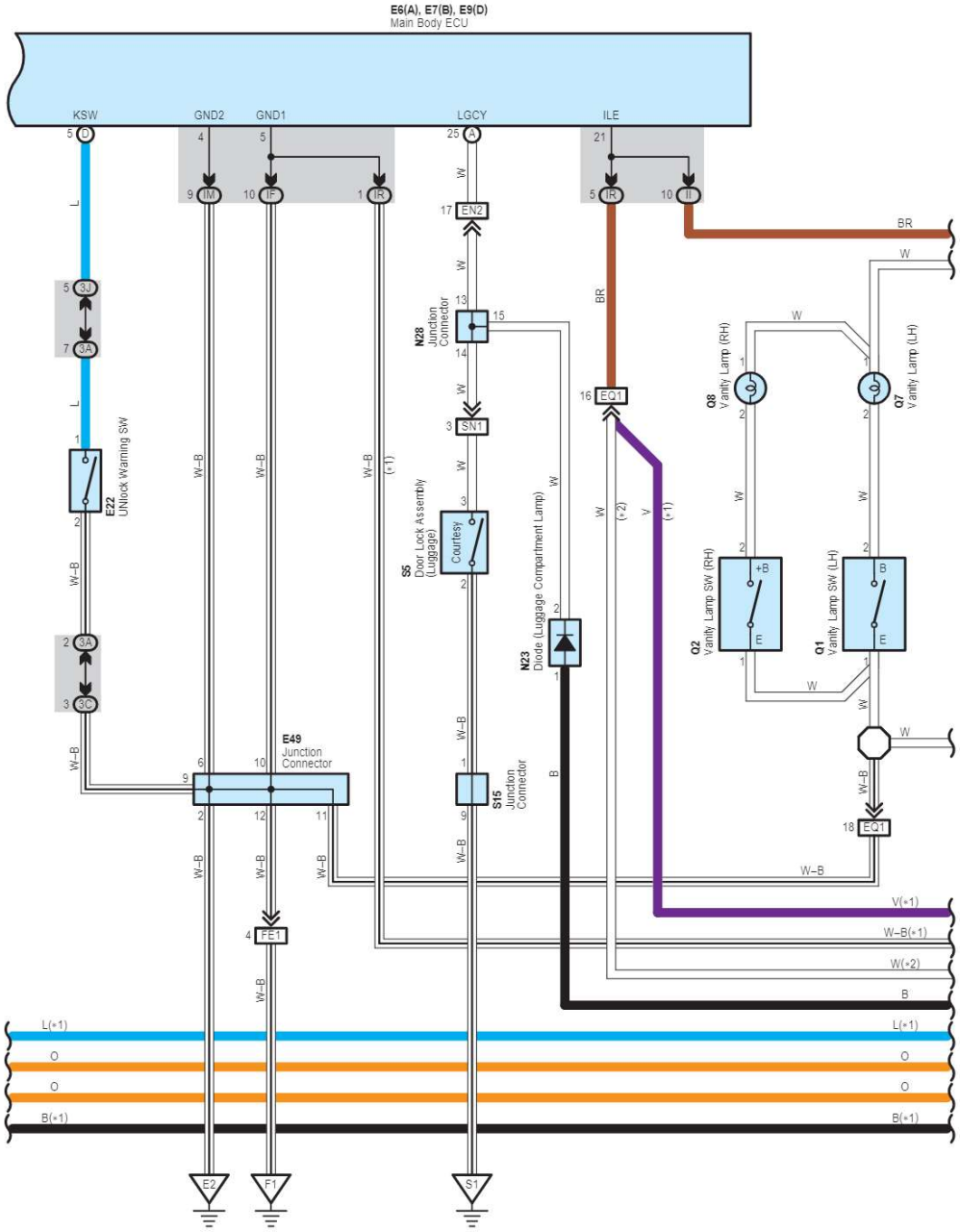
: **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A2	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

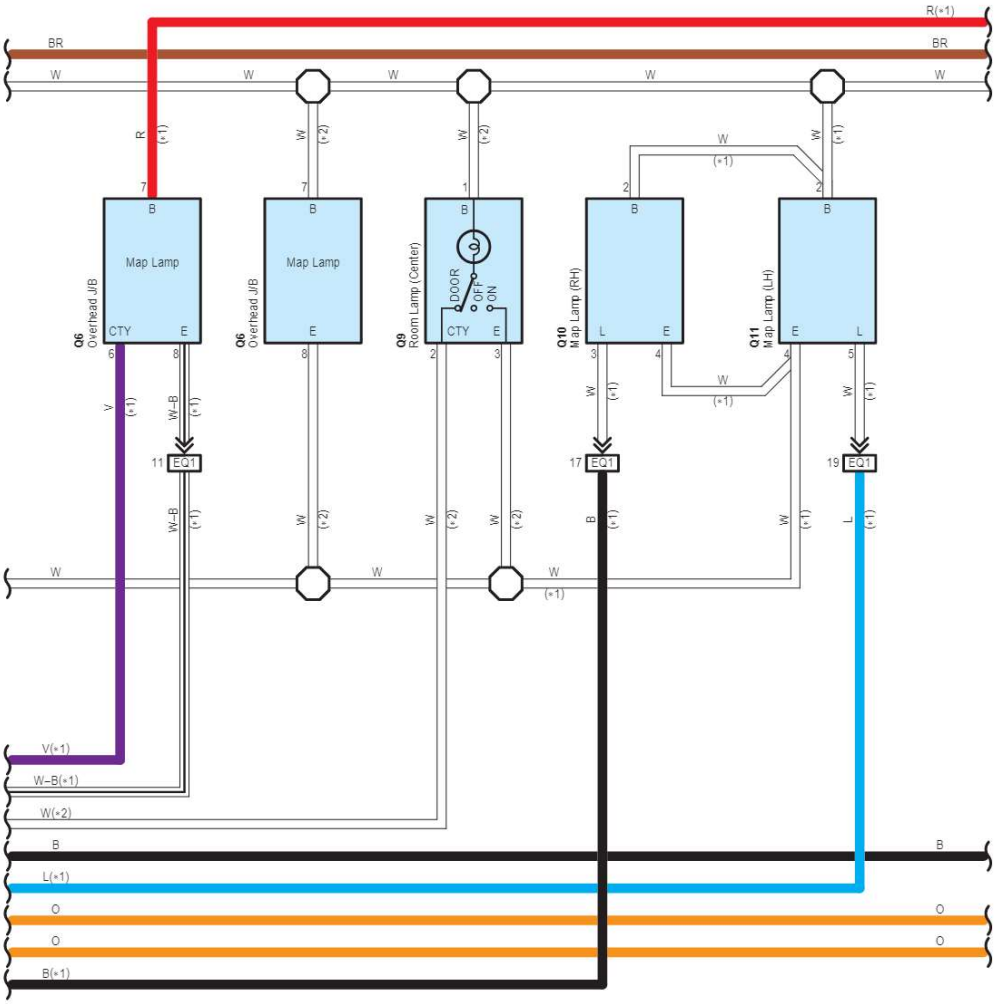
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

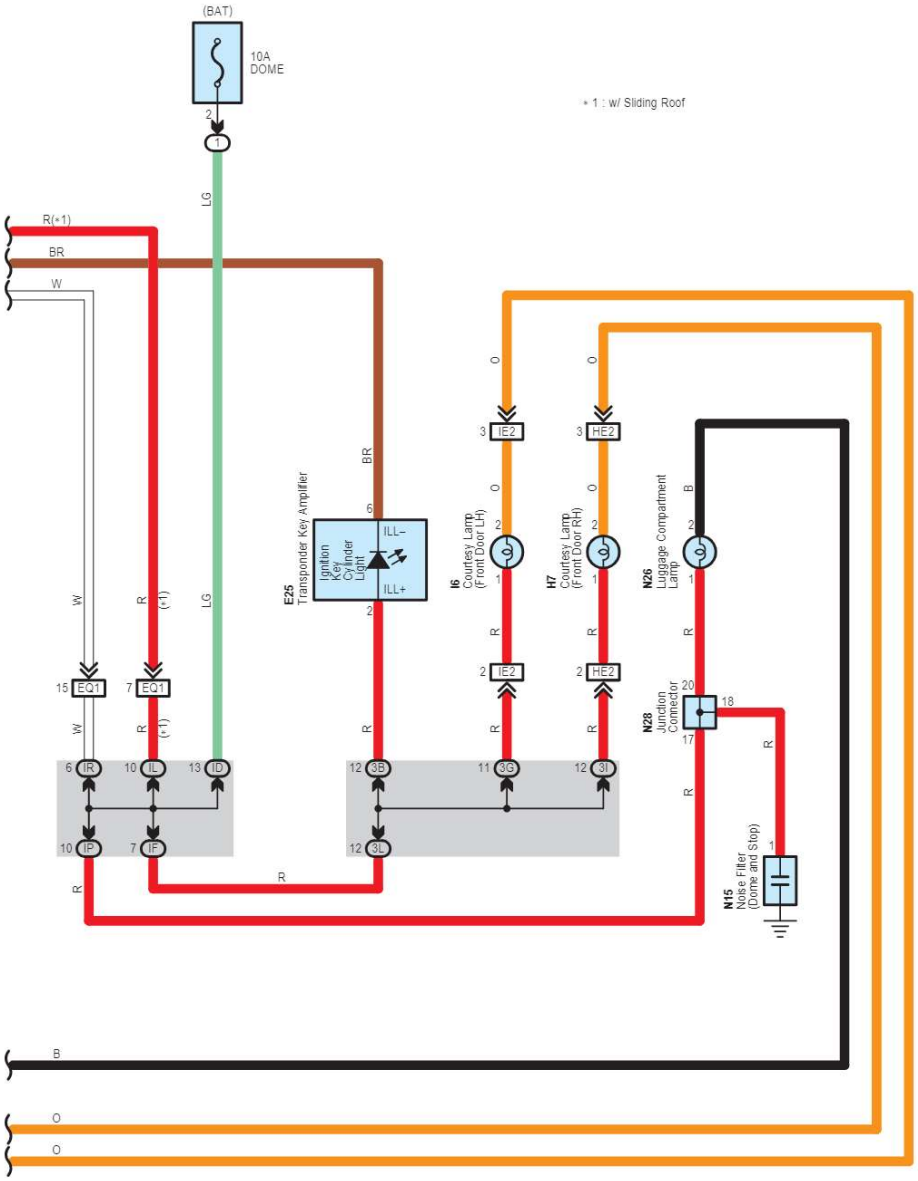

(BAT)
(BAT)
(IG)
(ACC)
25A
DOOR
NO. 1
10A
ECU–B
NO. 1
10A
ECU IG
NO. 1
7. 5A
ECU–ACC
E6(A), E7(B), E9(D)
Main Body ECU
ACC
IG
BECU
ALTB
22
15
26
6
10
16
1D
2
1
W
O
O
W


* 1 : w/ Sliding Roof
E6(A), E7(B), E9(D)
Main Body ECU
RCTY
DCTY
PCTY
LCTY
5 A
24 B
21 A
17
7 IO
6 IL
GR
L (LHD)
L (RHD)
Y (RHD)
Y (LHD)
LG
LG (*1)
6 3N
10 3F
11 3Q
5 3G
5 3N
7 3C
7 3I
12 3O
11 3F
6 3C
4 3I
GR
GR (*1)
L
L
Y
Y
6 EO2
13 EN2
5 EO2
GR
L
Y
O10
Door Courtesy SW
(Rear RH)
E2
Diode (Door Courtesy Rear RH)
N6
Door Courtesy SW
(Front LH)
E5
Diode (Door Courtesy Front LH)
O6
Door Courtesy SW
(Front RH)
E37
Diode (Door Courtesy Front RH)
N13
Door Courtesy SW
(Rear LH)
E1
Diode (Door Courtesy Rear LH)
B(*1)
O
O
L(*1)
O
O
B(*1)


E6(A), E7(B), E9(D)
Main Body ECU
KSW
GND2
GND1
LGCY
ILE
E22
UNlock Warning SW
E49
Junction Connector
N28
Junction Connector
S6
Door Lock Assembly (Luggage)
Courtesy
N23
Diode (Luggage Compartment Lamp)
S15
Junction Connedor
Q8
Vanity Lamp (RH)
Q7
Vanity Lamp (LH)
Q2
Vanity Lamp SW (RH)
Q1
Vanity Lamp SW (LH)
E2
F1
S1

* 1 : w/ Sliding Roof
* 2 : w/o Sliding Roof




(BAT)
10A
DOME
* 1 : w/ Sliding Roof
R(*1)
BR
W
LG
E25
Transponder Key Amplifier
Ignition Key Cylinder Light
ILL-
ILL+
I6
Courtesy Lamp (Front Door LH)
H7
Courtesy Lamp (Front Door RH)
N26
Luggage Compartment Lamp
N28
Junction Connector
N15
Noise Filter (Dome and Stop)
IE2
HE2
EQ1
IR
IL
ID
IP
IF
3B
3G
3I
3L
B
O

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

When the ignition key is not inserted in the key cylinder, 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 (LHD)	H7	59 (LHD)	Q1	59 (LHD)
	66 (RHD)		69 (RHD)		69 (RHD)
E2	56 (LHD)	I6	59 (LHD)	Q2	59 (LHD)
	66 (RHD)		69 (RHD)		69 (RHD)
E5	56 (LHD)	N6	58 (LHD)	Q6	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E6 A	56 (LHD)	N13	58 (LHD)	Q7	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E7 B	56 (LHD)	N15	58 (LHD)	Q8	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E9 D	56 (LHD)	N23	58 (LHD)	Q9	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E22	56 (LHD)	N26	58 (LHD)	Q10	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E25	56 (LHD)	N28	58 (LHD)	Q11	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E37	56 (LHD)	O6	58 (LHD)	S5	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)
E49	56 (LHD)	O10	58 (LHD)	S15	59 (LHD)
	66 (RHD)		68 (RHD)		69 (RHD)

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: **Junction Block and Wire Harness Connector**

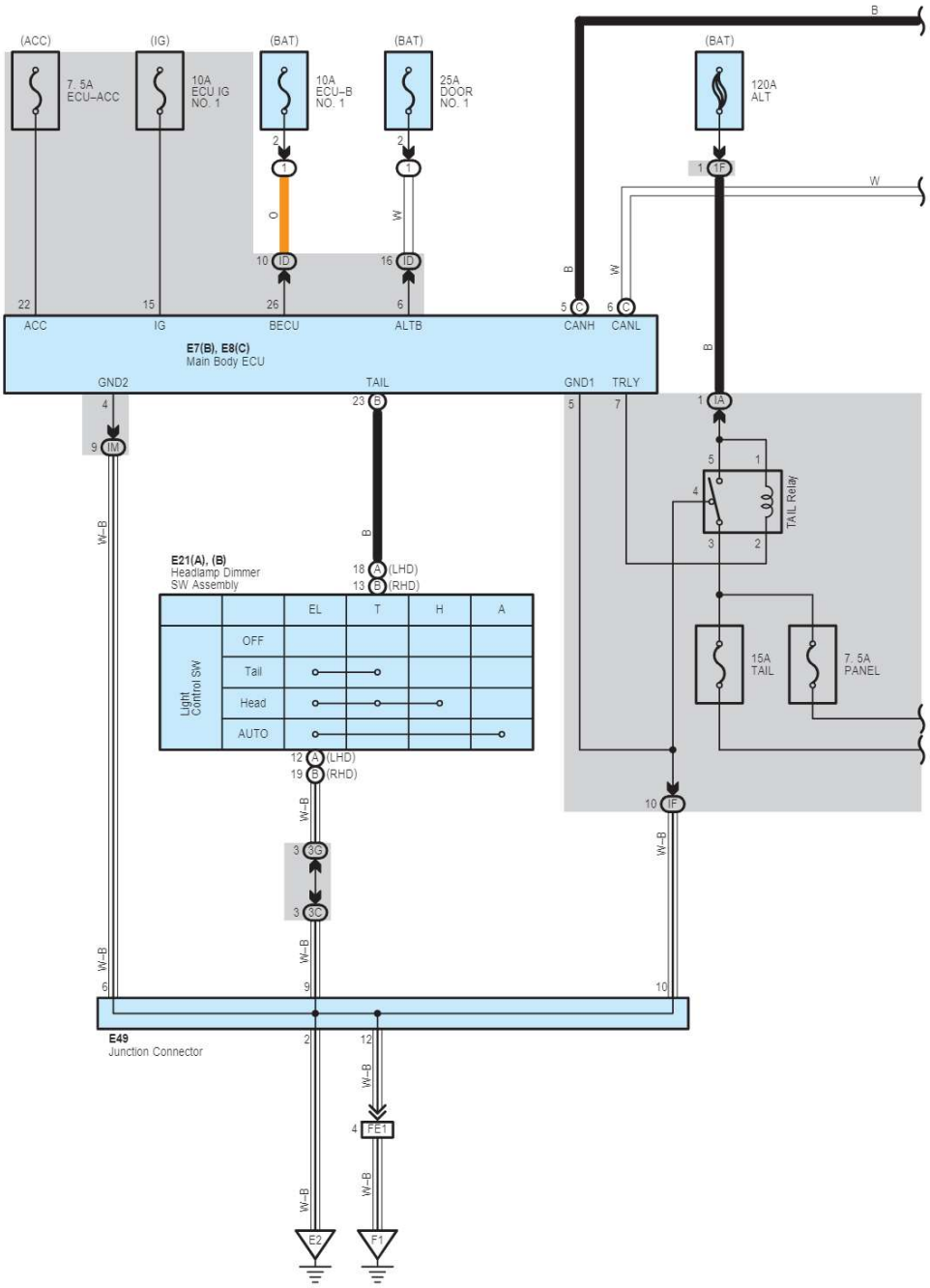
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3F		
3G		
3I		
3J		
3L		
3N		
3O		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

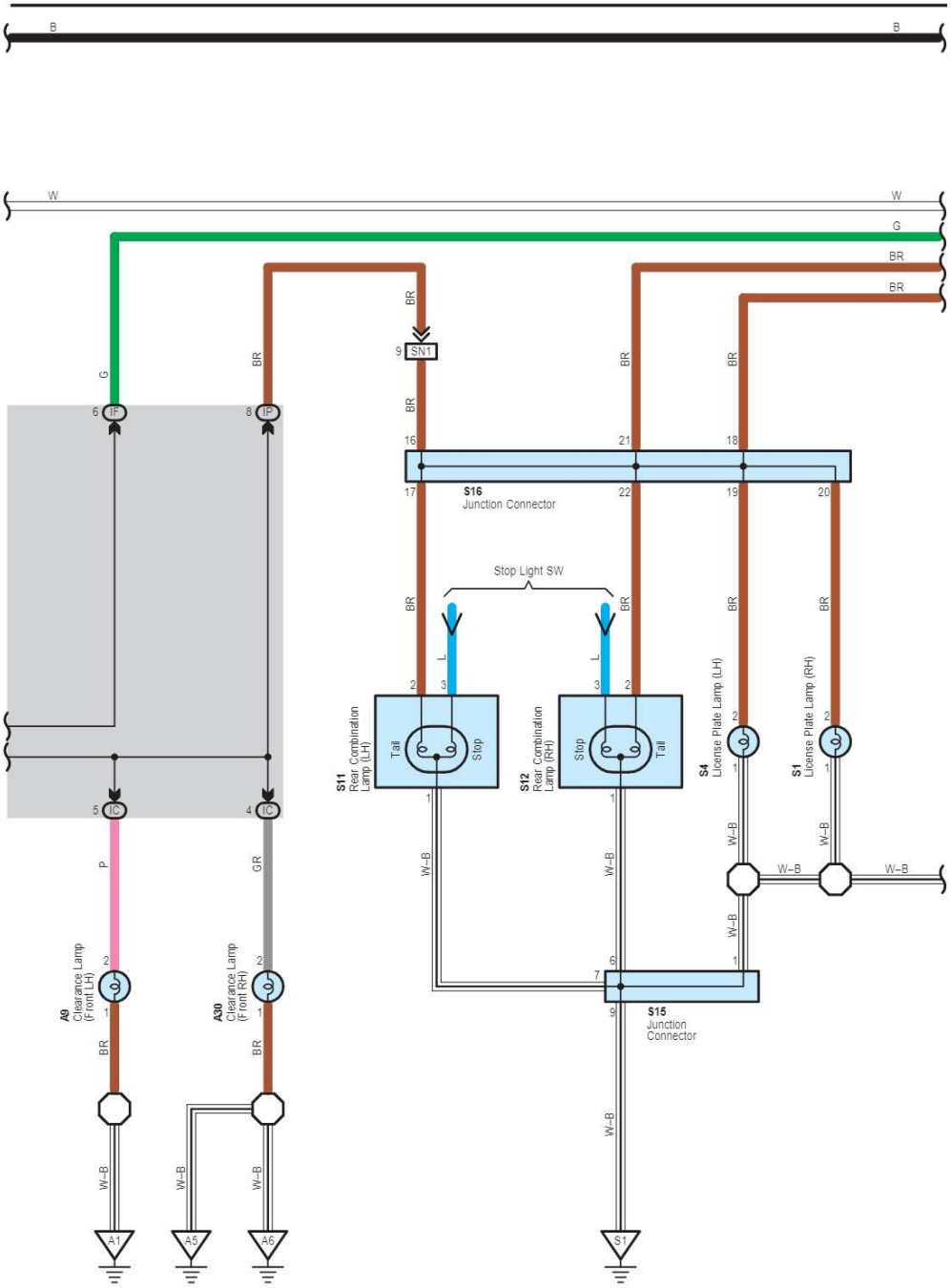
: **Connector Joining Wire Harness and Wire Harness**

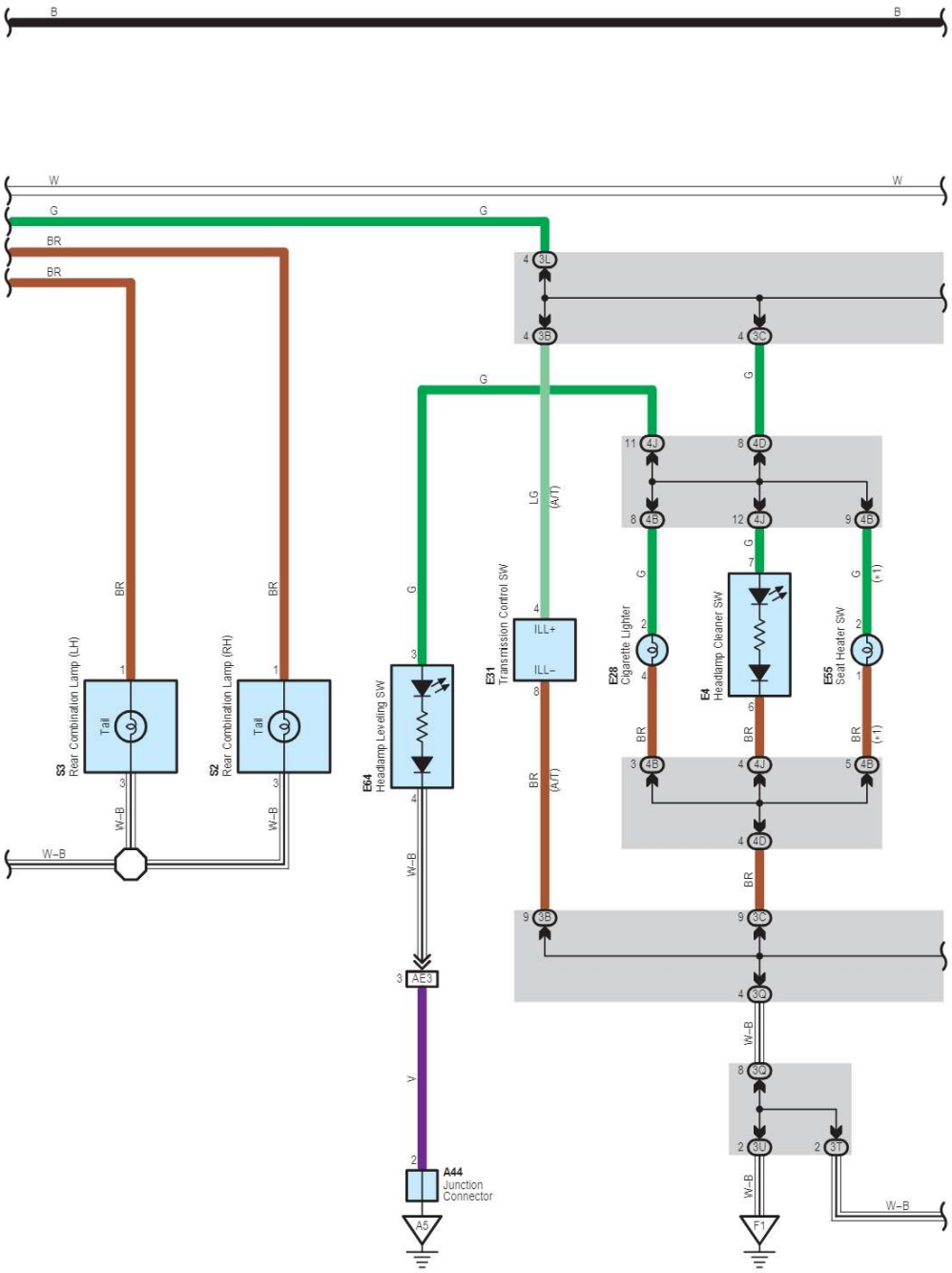
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE2	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

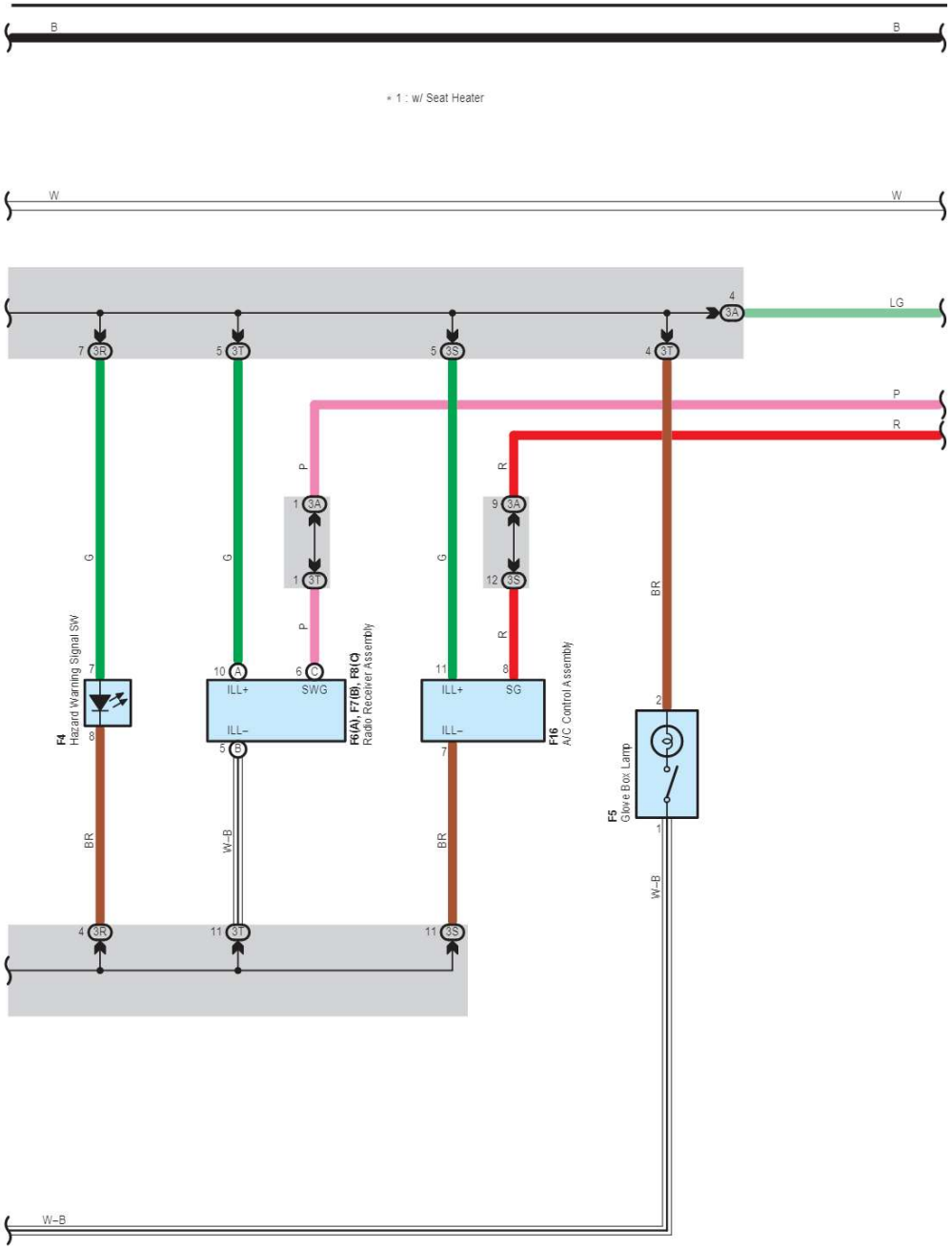
: **Ground Points**

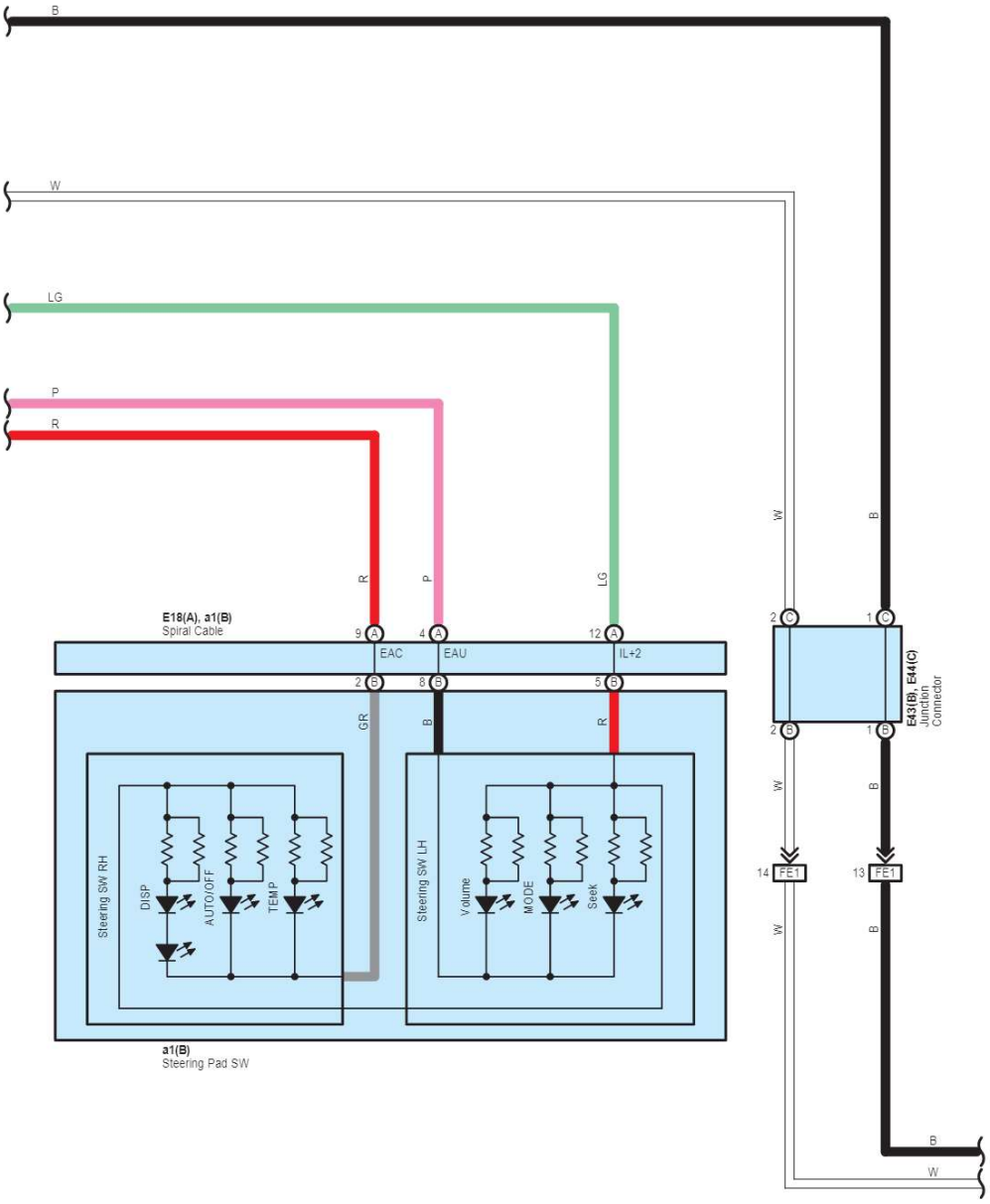
Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

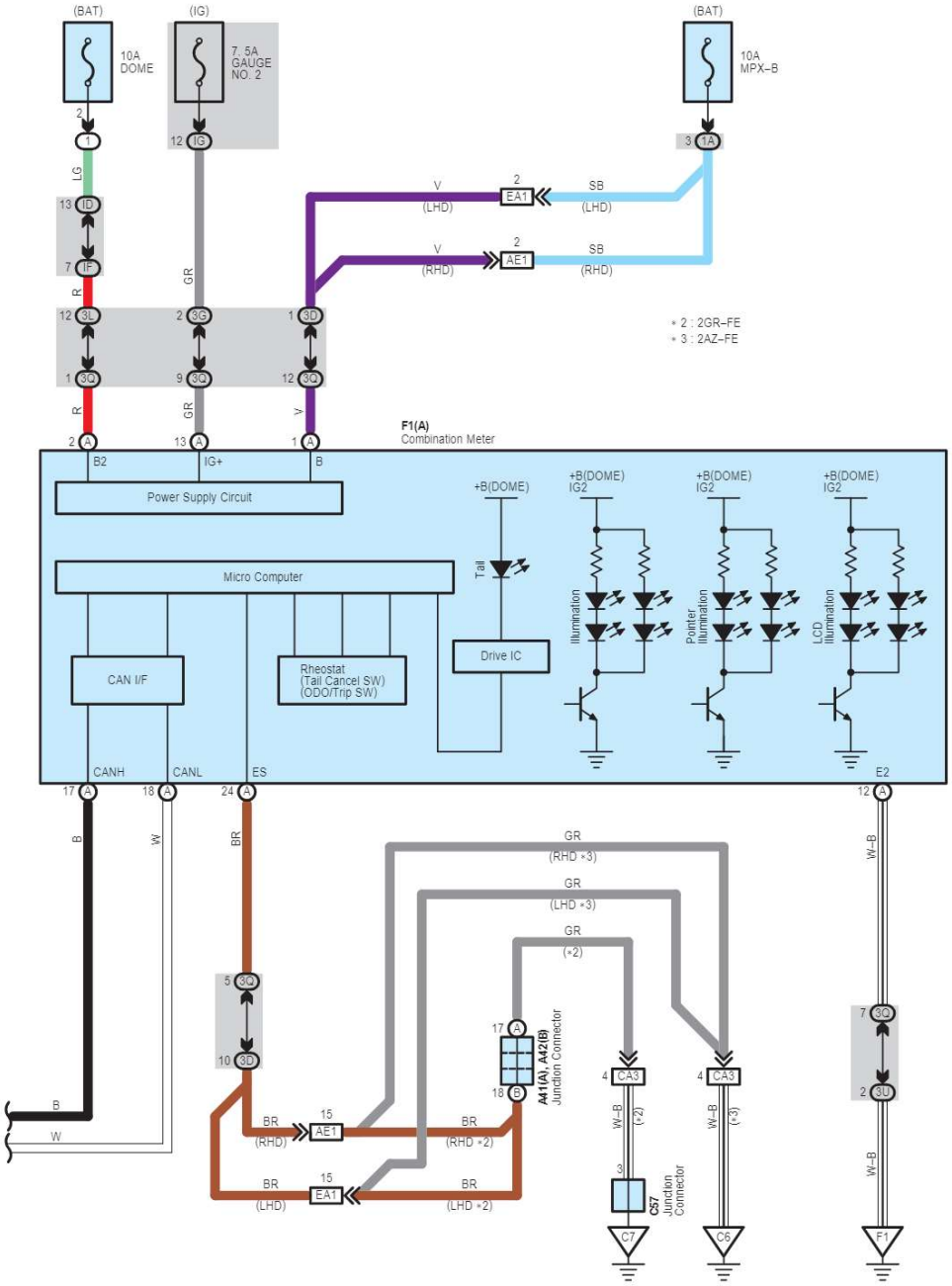

(ACC)
(IG)
(BAT)
(BAT)
(BAT)
7.5A ECU-ACC
10A ECU IG NO. 1
10A ECU-B NO. 1
25A DOOR NO. 1
120A ALT
B
W
O
22 ACC
15 IG
26 BECU
6 ALTB
5 CANH
6 CANL
E7(B), E8(C)
Main Body ECU
GND2
TAIL
GND1
TRLY
TAIL Relay
15A TAIL
7.5A PANEL
E21(A), (B)
Headlamp Dimmer SW Assembly
16 (LHD)
13 (RHD)
EL
T
H
A
OFF
Tail
Head
AUTO
Light Control SW
12 (LHD)
19 (RHD)
W-B
E49
Junction Connector
FE1
E2
E1


B
B
W
W
G
BR
BR
BR
9 SN1
6 1F
8 1F
5 1C
4 1C
16
21
18
17
22
19
20
S16
Junction Connector
Stop Light SW
2
3
3
2
L
L
S11
Rear Combination Lamp (LH)
Tail
Stop
S12
Rear Combination Lamp (RH)
Stop
Tail
S4
License Plate Lamp (LH)
S1
License Plate Lamp (RH)
W-B
P
GR
A9
Clearance Lamp (Front LH)
A30
Clearance Lamp (Front RH)
6
7
9
S15
Junction Connector
A1
A5
A6
S1


B
B
W
W
G
G
BR
BR
4 3L
4 3B
4 3C
G
11 4J
8 4D
8 4B
12 4J
9 4B
G
7
G (*1)
BR
BR
BR (*1)
3 4B
4 4J
5 4B
4 4D
BR
9 3B
9 3C
4 3Q
W-B
8 3Q
2 3U
2 3T
W-B
F1
S3
Rear Combination Lamp (LH)
Tail
S2
Rear Combination Lamp (RH)
Tail
W-B
W-B
W-B
E64
Headlamp Leveling SW
G
4
W-B
3 AE3
V
2
A44
Junction Connector
A5
E31
Transmission Control SW
ILL+
ILL-
LG (A/T)
BR (A/T)
E28
Cigarette Lighter
E4
Headlamp Cleaner SW
E55
Seat Heater SW


B
B
* 1 : w/ Seat Heater
W
W
4
3A
LG
7
3R
5
3T
5
3S
4
3T
P
R
P
R
1
3A
1
3T
9
3A
12
3S
G
G
G
BR
P
R
F4
Hazard Warning Signal SW
7
8
10
A
6
C
ILL+
SWG
ILL–
5
B
F6(A), F7(B), F8(C)
Radio Receiver Assembly
11
8
ILL+
SG
ILL–
7
F16
A/C Control Assembly
2
F5
Glove Box Lamp
1
W–B
BR
W–B
BR
4
3R
11
3T
11
3S
W–B


B
W
LG
P
R
R
P
LG
W
B
E18(A), a1(B)
Spiral Cable
9 A
4 A
12 A
EAC
EAU
IL+2
2 B
8 B
5 B
GR
B
R
Steering SW RH
DISP
AUTO/OFF
TEMP
Steering SW LH
Volume
MODE
Seek
a1(B)
Steering Pad SW
2 C
1 C
E43(B), E44(C)
Junction Connector
2 B
1 B
W
B
14 FE1
13 FE1
W
B
B
W


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
LG
GR
R
V
SB
(LHD)
(RHD)
* 2 : 2GR-FE
* 3 : 2AZ-FE
F1(A)
Combination Meter
B2
IG+
B
Power Supply Circuit
Micro Computer
CAN I/F
Rheostat
(Tail Cancel SW)
(ODO/Trip SW)
Drive IC
+B(DOME)
Tail
+B(DOME) IG2
Illumination
Pointer Illumination
LCD Illumination
CANH
CANL
ES
E2
W-B
BR
W
B
GR
(RHD *3)
(LHD *3)
(*2)
A41(A), A42(B)
Junction Connector
CA3
C57
Junction Connector
C7
C6
F1

Taillight and Illumination

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A9		52 (*1)	E21	A	56 (LHD)	F8	C	57 (LHD)
		54 (*2)		B	66 (RHD)			67 (RHD)
		62 (*3)	E28		56 (LHD)	F16		57 (LHD)
		64 (*4)			66 (RHD)			67 (RHD)
A30		52 (*1)	E31		56 (LHD)	S1		59 (LHD)
		54 (*2)			66 (RHD)			69 (RHD)
		62 (*3)	E43	B	48, 56 (LHD)	S2		59 (LHD)
		64 (*4)			48, 66 (RHD)			69 (RHD)
A41	A	57 (LHD)	E44	C	48, 56 (LHD)	S3		59 (LHD)
		67 (RHD)			48, 66 (RHD)			69 (RHD)
A42	B	57 (LHD)	E49		56 (LHD)	S4		59 (LHD)
		67 (RHD)			66 (RHD)			69 (RHD)
A44		52 (*1)	E55		56 (LHD)	S11		59 (LHD)
		54 (*2)	E64		56 (LHD)			69 (RHD)
C57		53 (*1)	F1	A	57 (LHD)	S12		59 (LHD)
		63 (*3)			67 (RHD)			69 (RHD)
E4		56 (LHD)	F4		57 (LHD)	S15		59 (LHD)
		66 (RHD)			67 (RHD)			69 (RHD)
E7	B	56 (LHD)	F5		57 (LHD)	S16		59 (LHD)
		66 (RHD)			67 (RHD)			69 (RHD)
E8	C	56 (LHD)	F6	A	57 (LHD)	a1	B	57 (LHD)
		66 (RHD)			67 (RHD)			67 (RHD)
E18	A	56 (LHD)	F7	B	57 (LHD)			
		66 (RHD)			67 (RHD)			

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3G		
3L		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3R		
3S		
3T		
3U		
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4D		
4J		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE3	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

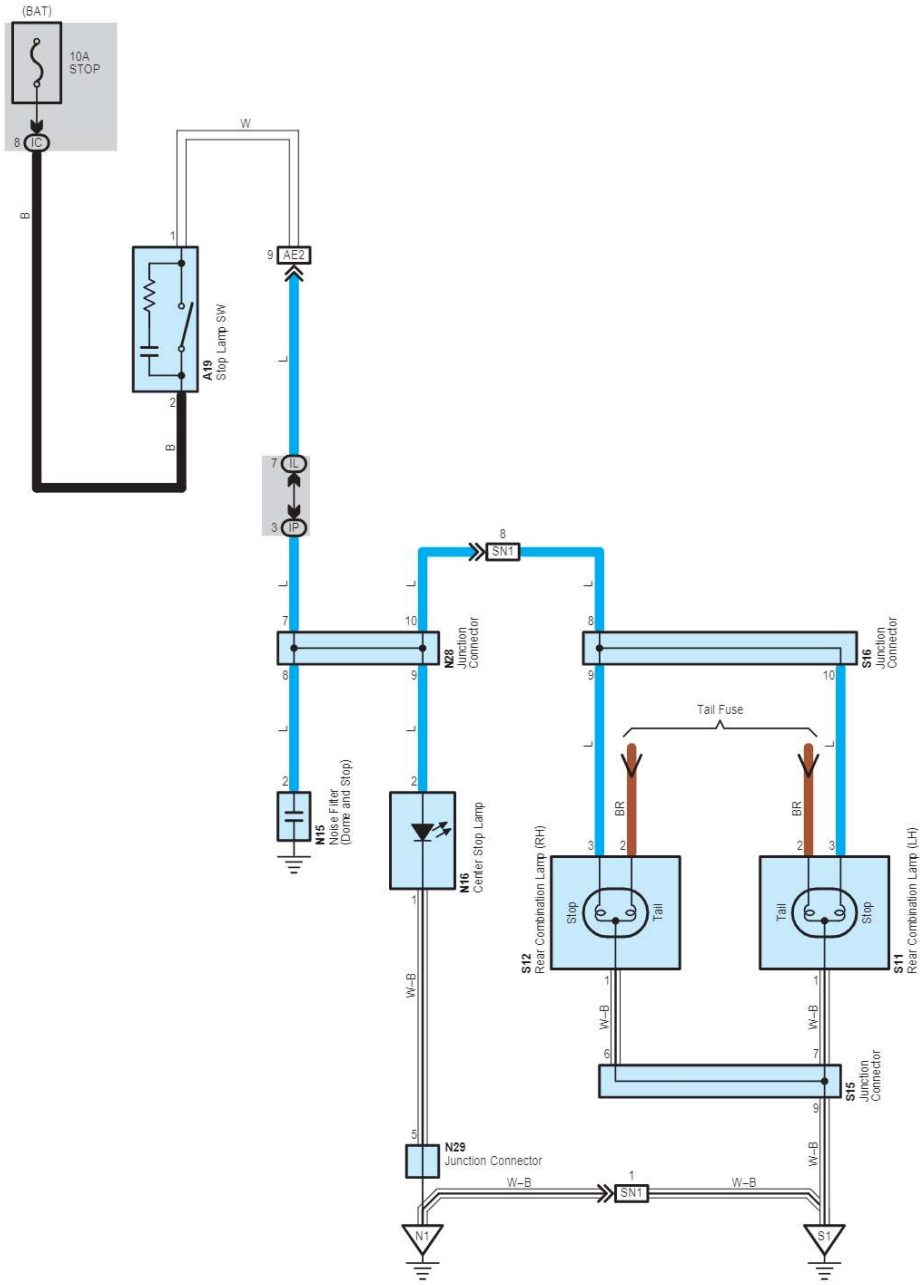
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

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
L
2
N15
Noise Filter
(Dome and Stop)
2
N16
Center Stop Lamp
1
W-B
Tail Fuse
BR
3
2
S12
Rear Combination Lamp (RH)
Stop
Tail
1
W-B
6
Tail
Stop
S11
Rear Combination Lamp (LH)
7
S15
Junction
Connector
9
W-B
5
N29
Junction Connector
W-B
1
SN1
W-B
N1
S1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A19	57 (LHD)	N28	58 (LHD)	S12	59 (LHD)
	67 (RHD)		68 (RHD)		69 (RHD)
N15	58 (LHD)	N29	58 (LHD)	S15	59 (LHD)
	68 (RHD)		68 (RHD)		69 (RHD)
N16	58 (LHD)	S11	59 (LHD)	S16	59 (LHD)
	68 (RHD)		69 (RHD)		69 (RHD)

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

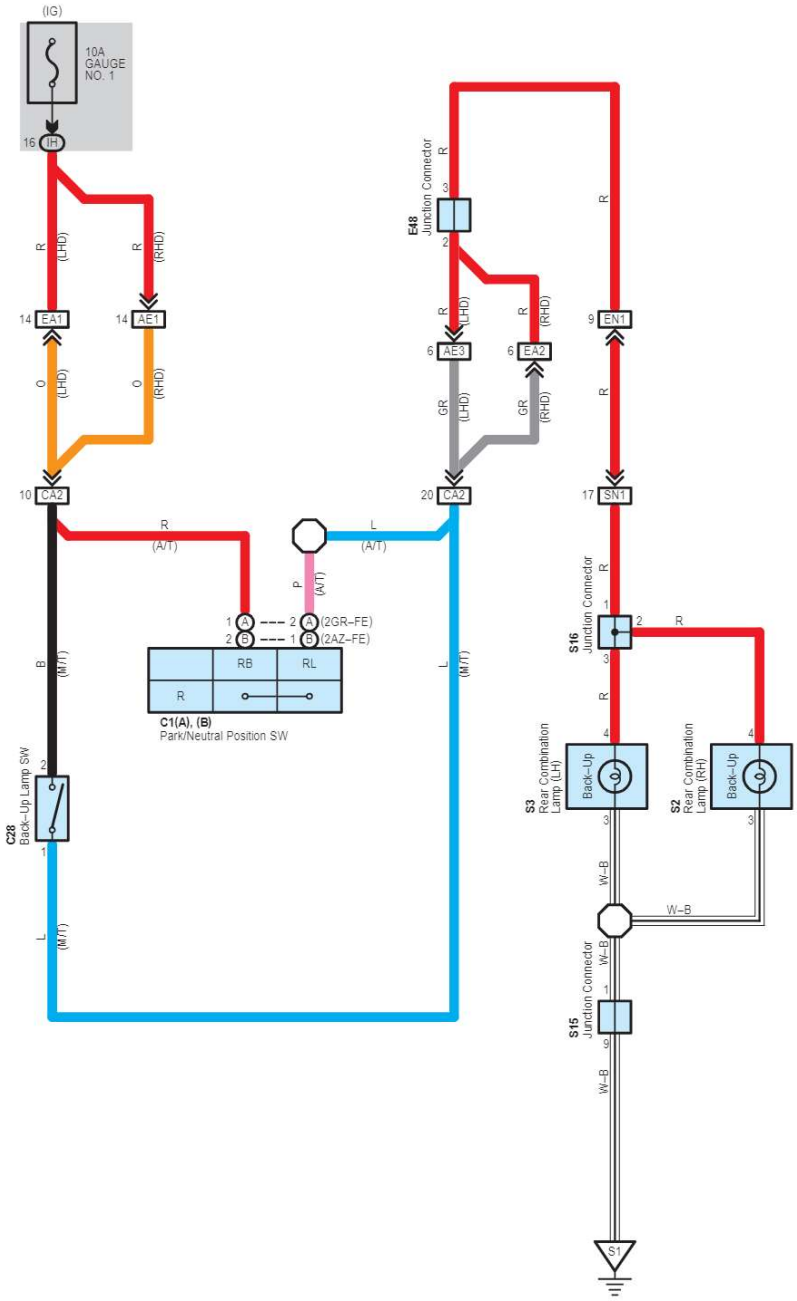
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	


(IG)
10A GAUGE NO. 1
16 IH
14 EA1
14 AE1
10 CA2
20 CA2
E48 Junction Connector
6 AE3
6 EA2
9 EN1
17 SN1
S16 Junction Connector
S15 Junction Connector
S3 Rear Combination Lamp (LH)
S2 Rear Combination Lamp (RH)
Back–Up
C28 Back–Up Lamp SW
C1(A), (B) Park/Neutral Position SW
RB
RL
R
(2GR–FE)
(2AZ–FE)
S1

○ : **Parts Location**

Code		See Page	Code	See Page	Code	See Page
C1	A	53 (*1)	E48	56 (LHD)	S15	59 (LHD)
		63 (*3)		66 (RHD)		69 (RHD)
	B	55 (*2)	S2	59 (LHD)	S16	59 (LHD)
		65 (*4)		69 (RHD)		69 (RHD)
C28		55 (*2)	S3	59 (LHD)		
		65 (*4)		69 (RHD)		

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

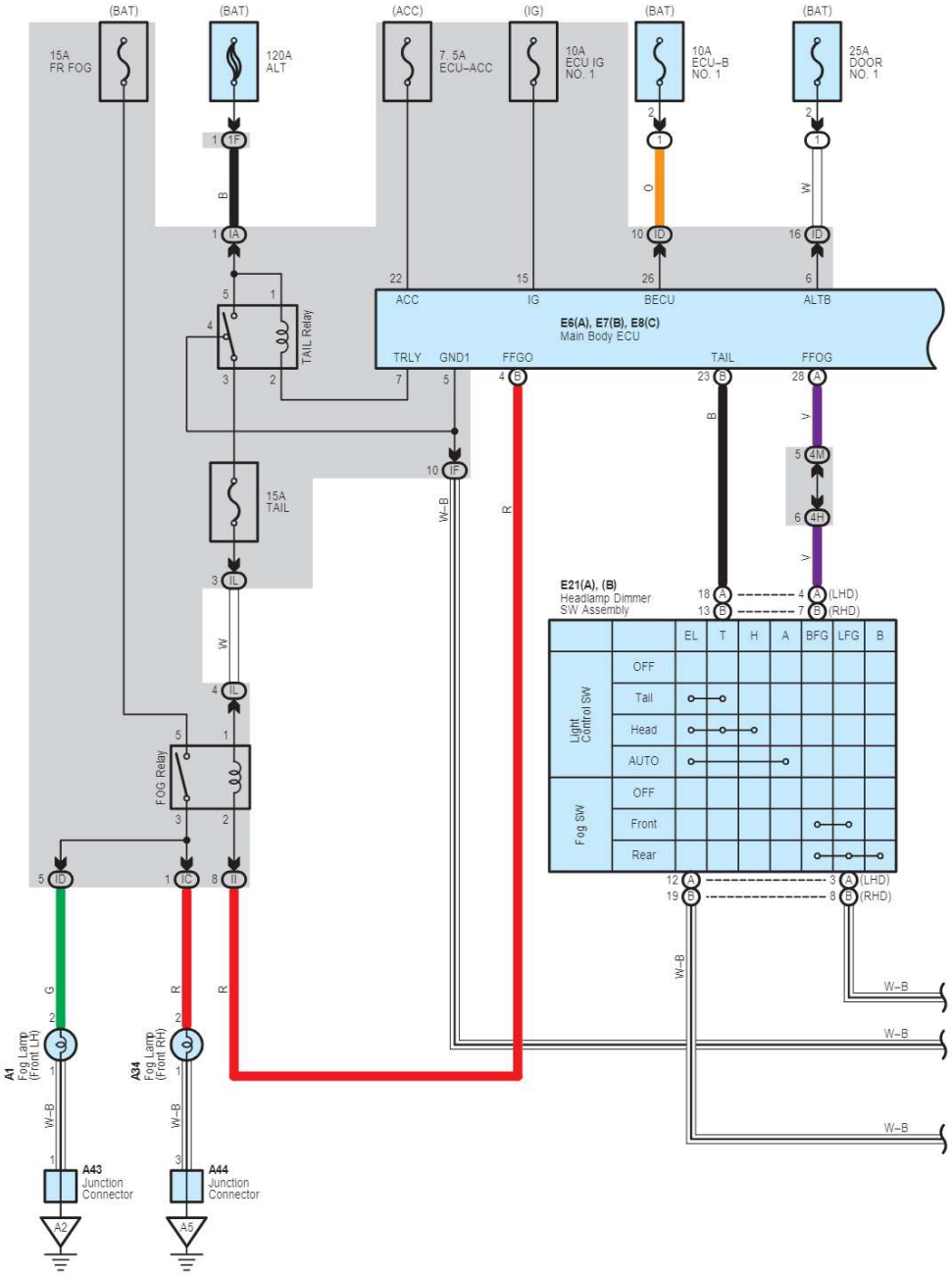
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE3	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2	80 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Under the Instrument Panel J/B)
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

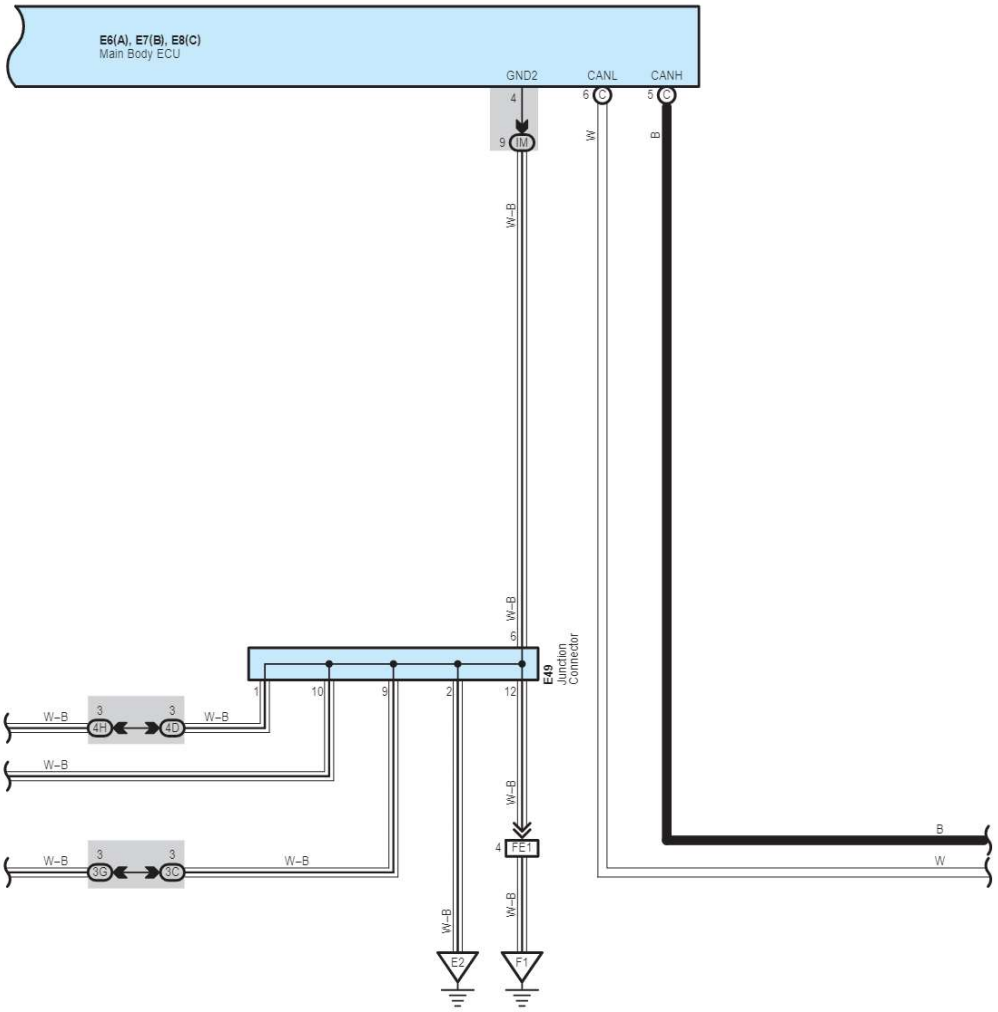
▽ : **Ground Points**

Code	See Page	Ground Points Location
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

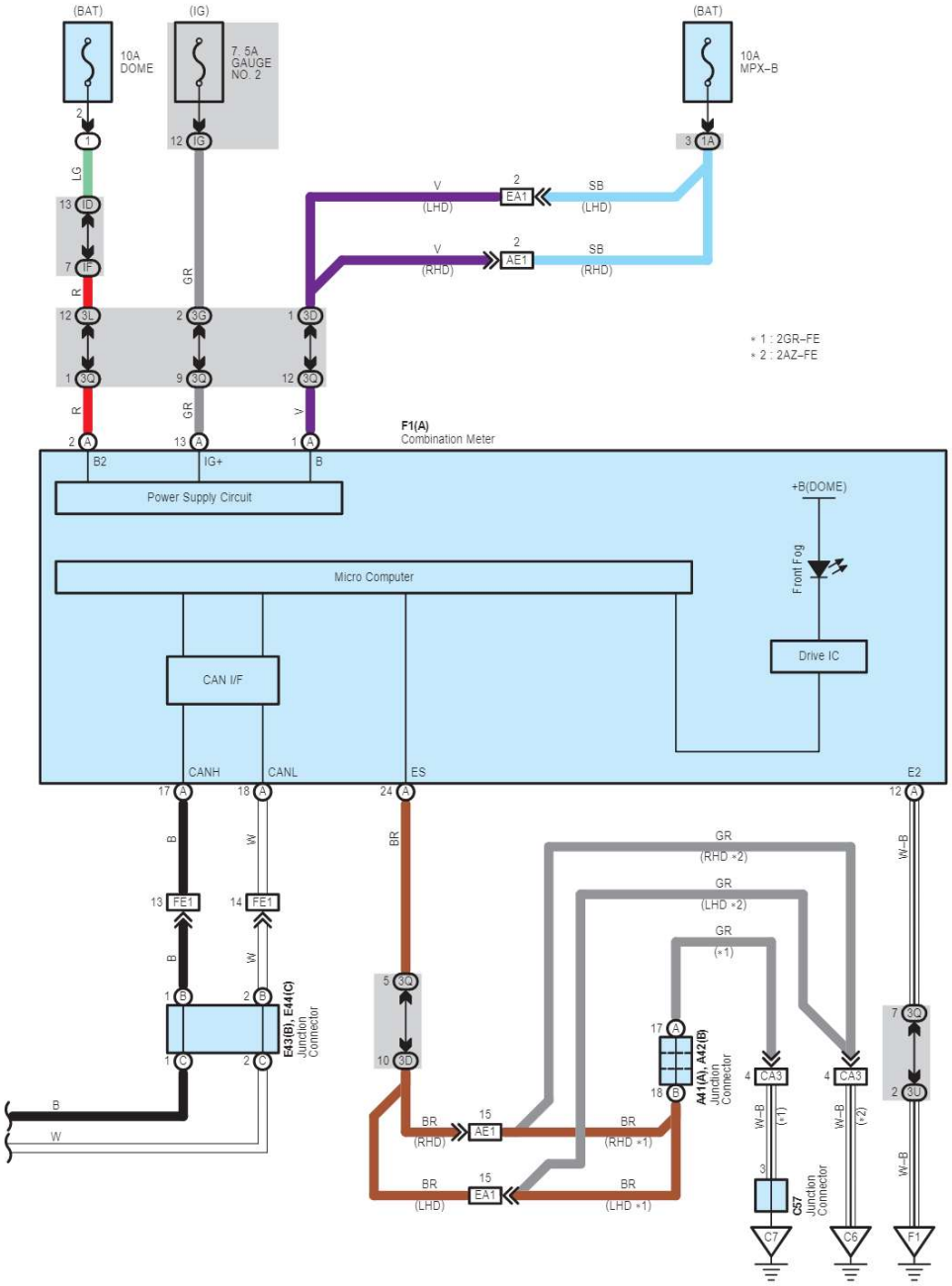
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

Front Fog Light




E6(A), E7(B), E8(C)
Main Body ECU
GND2
CANL
CANH
4
9
IM
6
5
W
B
W-B
W-B
6
E49
Junction
Connector
1
10
9
2
12
3
3
4H
4D
W-B
W-B
W-B
3
3
3G
3C
W-B
W-B
4
FE1
B
W
W-B
W-B
E2
F1

Front Fog Light



○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		52 (*1)	A43		54 (*2)	E8	C	56 (LHD)
		54 (*2)			62 (*3)			66 (RHD)
		62 (*3)			64 (*4)	E21	A	56 (LHD)
		64 (*4)	A44		52 (*1)		B	66 (RHD)
A34		52 (*1)			54 (*2)	E43	B	48, 56 (LHD)
		54 (*2)			62 (*3)			48, 66 (RHD)
		62 (*3)			64 (*4)	E44	C	48, 56 (LHD)
		64 (*4)	C57		53 (*1)			48, 66 (RHD)
A41	A	57 (LHD)			63 (*3)	E49		56 (LHD)
		67 (RHD)	E6	A	56 (LHD)			66 (RHD)
A42	B	57 (LHD)			66 (RHD)	F1	A	57 (LHD)
		67 (RHD)	E7	B	56 (LHD)			67 (RHD)
A43		52 (*1)			66 (RHD)			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4D	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4H		
4M		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE　* 2 : LHD 2AZ–FE　* 3 : RHD 2GR–FE　* 4 : RHD 2AZ–FE

Front Fog Light

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

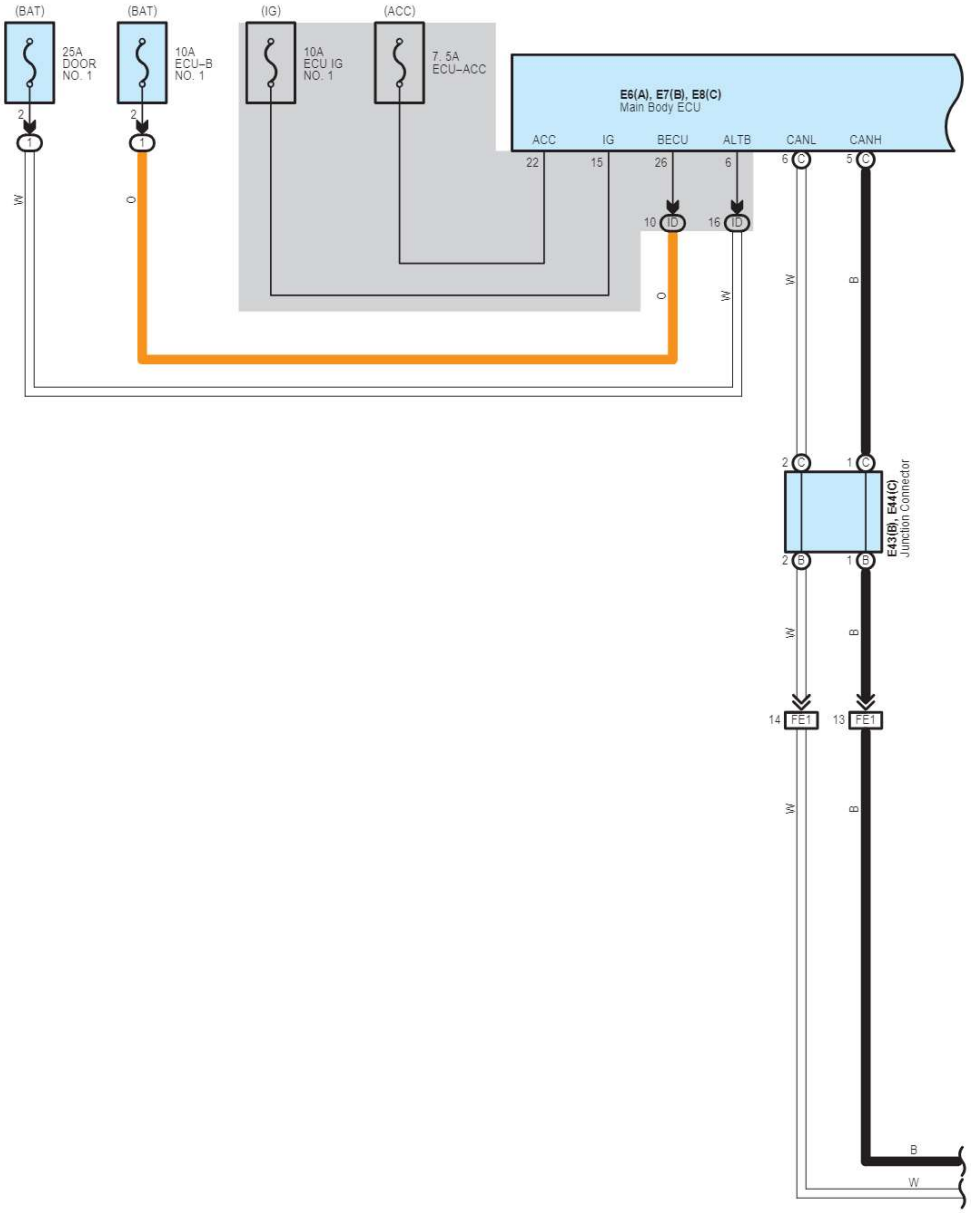
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

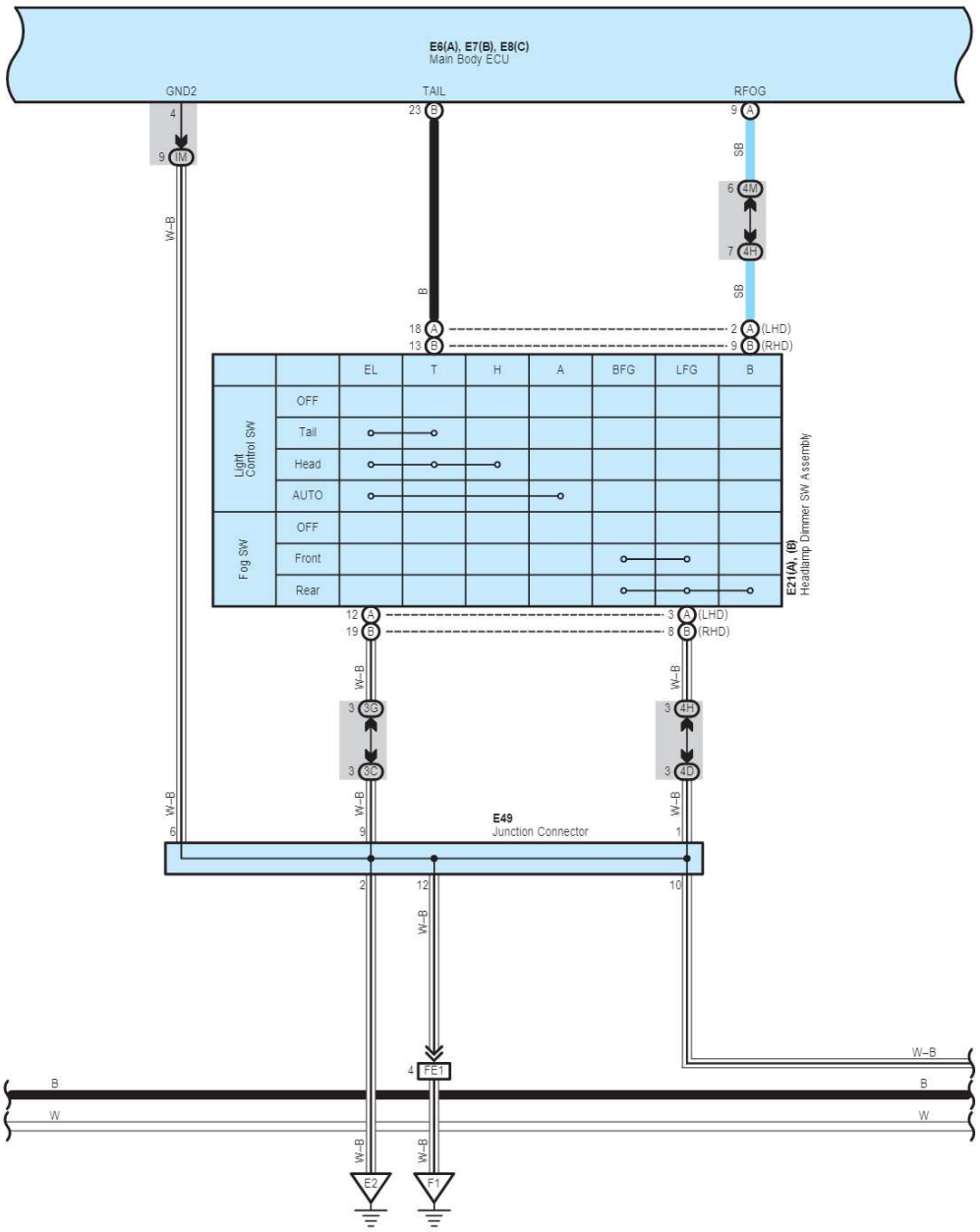
: **Ground Points**

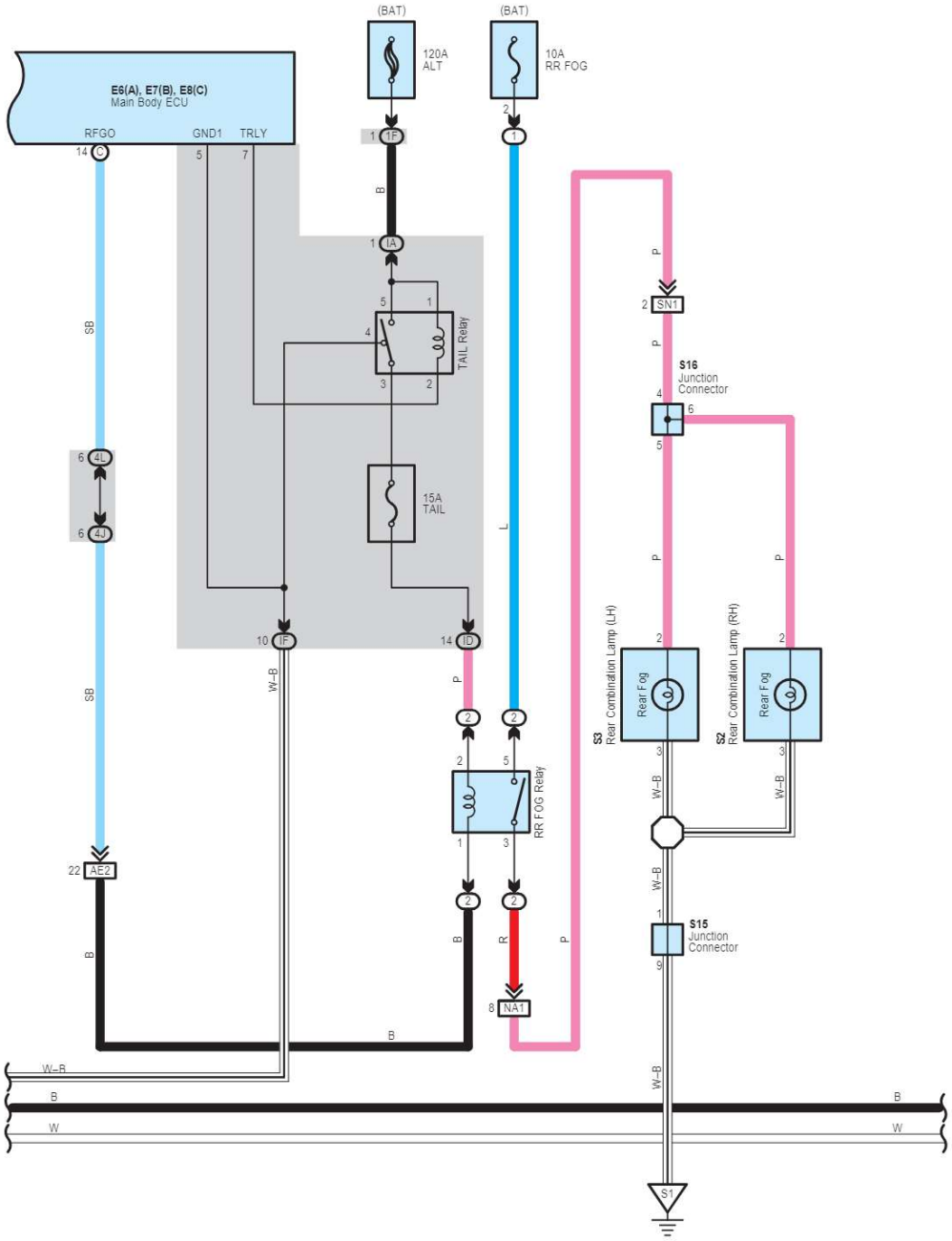
Code	See Page	Ground Points Location
A2	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

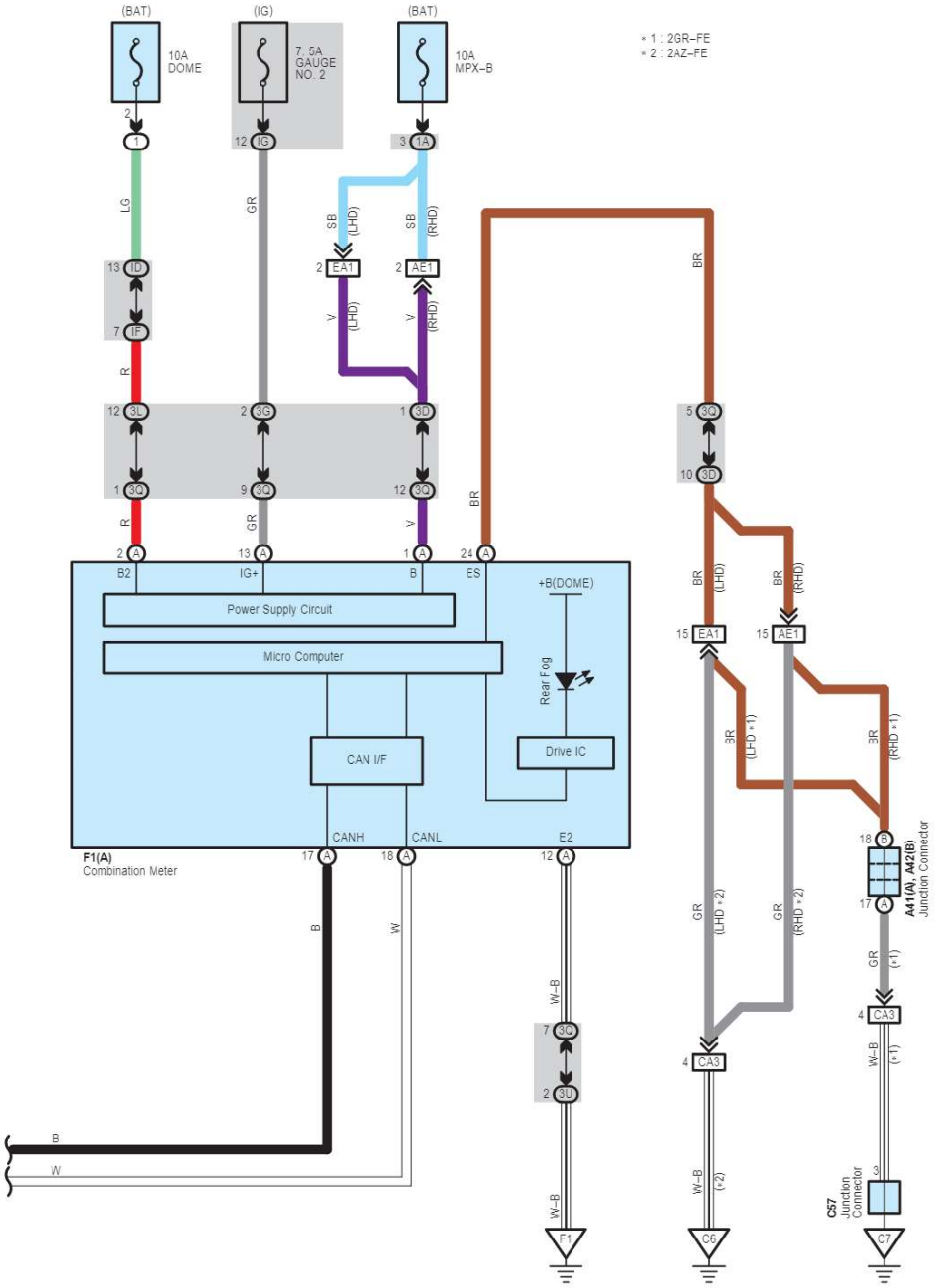
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

Rear Fog Light




E6(A), E7(B), E8(C)
Main Body ECU
GND2
TAIL
RFOG
4
9 1M
23 B
9 A
SB
6 4M
7 4H
SB
W–B
B
18 A
13 B
2 A (LHD)
9 B (RHD)
EL
T
H
A
BFG
LFG
B
Light Control SW
OFF
Tail
Head
AUTO
Fog SW
OFF
Front
Rear
E21(A), (B)
Headlamp Dimmer SW Assembly
12 A
19 B
3 A (LHD)
8 B (RHD)
W–B
3 3G
3 3C
3 4H
3 4D
W–B
W–B
W–B
6
9
E49
Junction Connector
1
2
12
10
W–B
4 FE1
B
W
B
W
W–B
W–B
E2
F1


(BAT)
(BAT)
120A
ALT
10A
RR FOG
E6(A), E7(B), E8(C)
Main Body ECU
RFGO
GND1
TRLY
TAIL Relay
15A
TAIL
RR FOG Relay
S16
Junction
Connector
S15
Junction
Connector
S3
Rear Combination Lamp (LH)
S2
Rear Combination Lamp (RH)
Rear Fog
Rear Fog
SB
W-B
B
P
L
R
W


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
LG
GR
SB
(LHD)
SB
(RHD)
BR
V
(LHD)
V
(RHD)
R
BR
R
GR
V
BR
BR
(LHD)
BR
(RHD)
B2
IG+
B
ES
+B(DOME)
Power Supply Circuit
Micro Computer
Rear Fog
CAN I/F
Drive IC
CANH
CANL
E2
F1(A)
Combination Meter
BR
(LHD *1)
BR
(RHD *1)
GR
(LHD *2)
GR
(RHD *2)
A41(A), A42(B)
Junction Connector
GR
(*1)
W–B
(*1)
W–B
(*2)
C57
Junction
Connector
B
W
W–B

Rear Fog Light

○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A41	A	57 (LHD)	E8	C	56 (LHD)	F1	A	57 (LHD)
		67 (RHD)			66 (RHD)			67 (RHD)
A42	B	57 (LHD)	E21	A	56 (LHD)	S2		59 (LHD)
		67 (RHD)		B	66 (RHD)			69 (RHD)
C57		53 (*1)	E43	B	48, 56 (LHD)	S3		59 (LHD)
		63 (*3)			48, 66 (RHD)			69 (RHD)
E6	A	56 (LHD)	E44	C	48, 56 (LHD)	S15		59 (LHD)
		66 (RHD)			48, 66 (RHD)			69 (RHD)
E7	B	56 (LHD)	E49		56 (LHD)	S16		59 (LHD)
		66 (RHD)			66 (RHD)			69 (RHD)

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)
2	50	Engine Room R/B No.2 (Left Side of the Radiator Support)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4D	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4H		
4J		
4L		
4M		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

*1 : LHD 2GR–FE *2 : LHD 2AZ–FE *3 : RHD 2GR–FE *4 : RHD 2AZ–FE

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

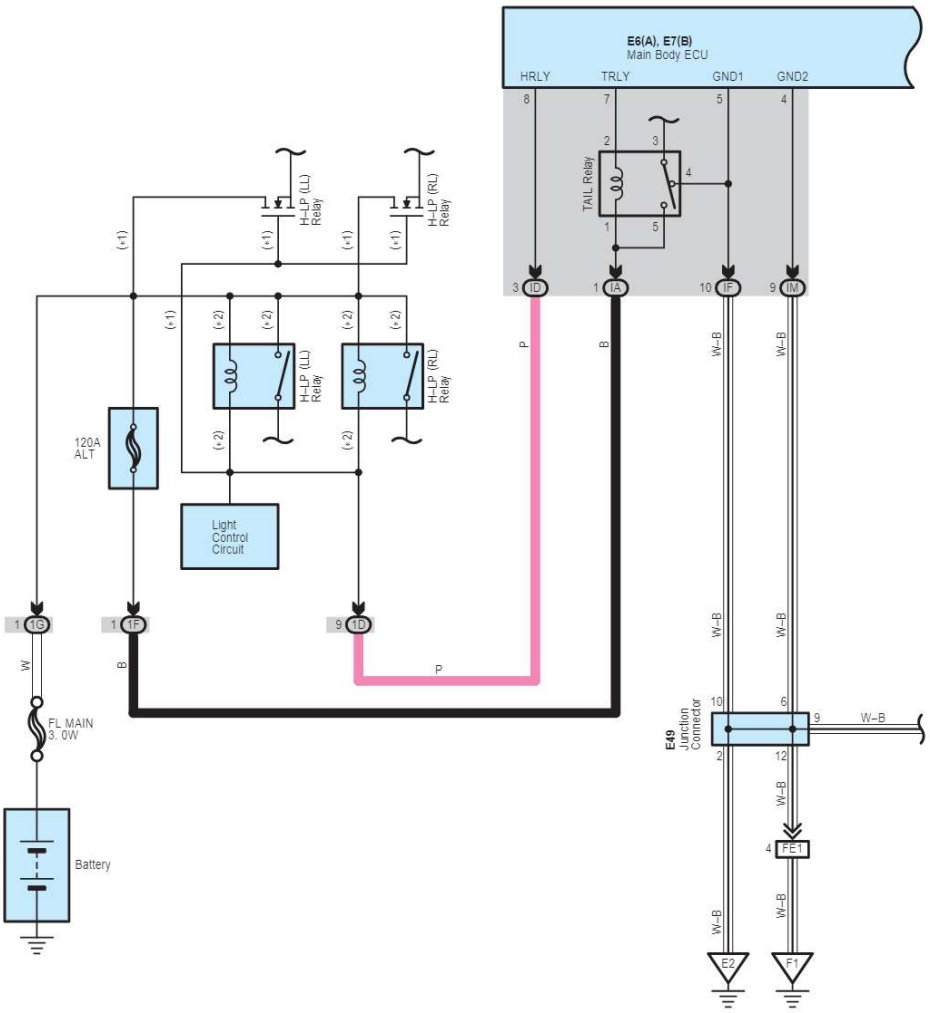
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

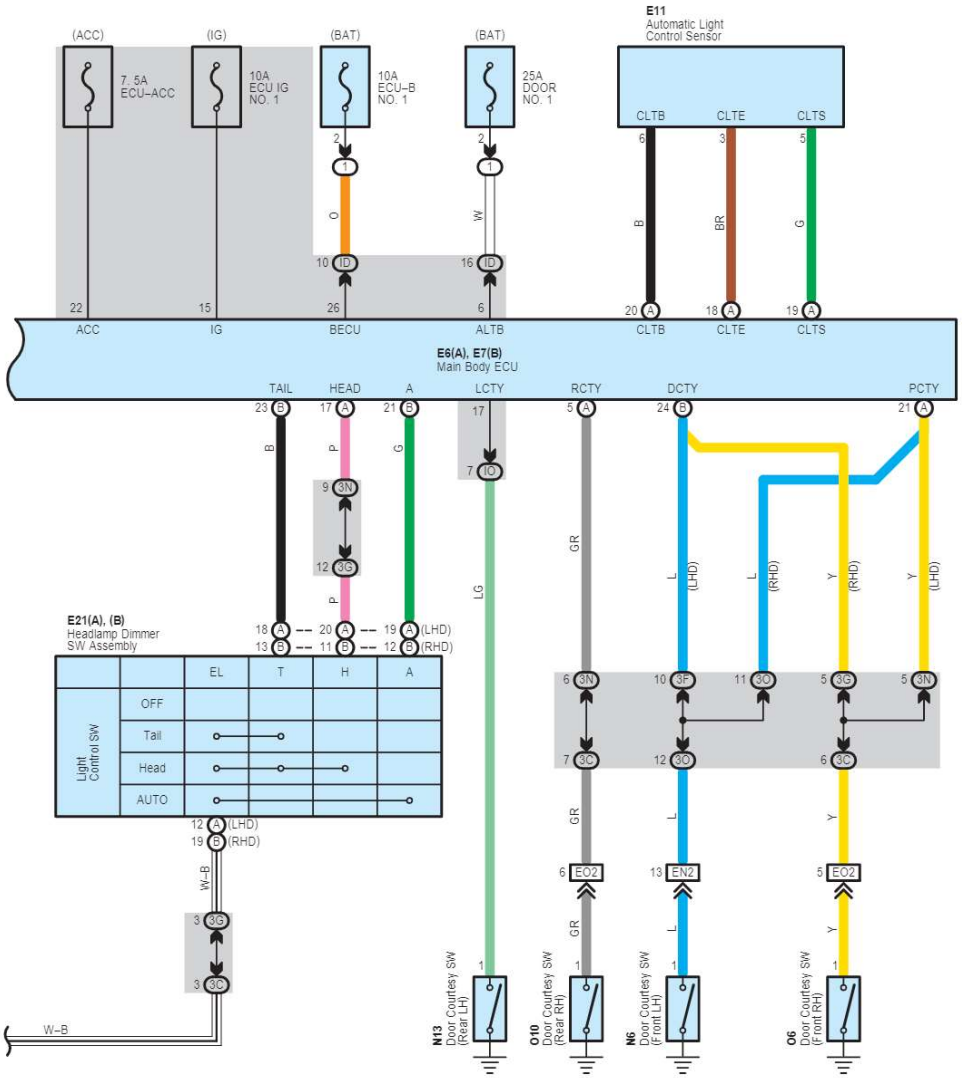
: **Ground Points**

Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

* 1 : HID Type
* 2 : Except HID Type




(ACC)
(IG)
(BAT)
(BAT)
7. 5A
ECU-ACC
10A
ECU IG
NO. 1
10A
ECU-B
NO. 1
25A
DOOR
NO. 1
E11
Automatic Light
Control Sensor
CLTB
CLTE
CLTS
ACC
IG
BECU
ALTB
CLTB
CLTE
CLTS
E6(A), E7(B)
Main Body ECU
TAIL
HEAD
A
LCTY
RCTY
DCTY
PCTY
E21(A), (B)
Headlamp Dimmer
SW Assembly
EL
T
H
A
Light
Control SW
OFF
Tail
Head
AUTO
(LHD)
(RHD)
W-B
N13
Door Courtesy SW
(Rear LH)
O10
Door Courtesy SW
(Rear RH)
N6
Door Courtesy SW
(Front LH)
O6
Door Courtesy SW
(Front RH)

Automatic Light Control and Light Auto Turn Off System

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, front fog lamps and rear fog lamps are turned OFF if the ignition SW is turned from ON to OFF, 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 ignition SW is turned from ON to OFF, 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, front fog lamps and rear fog lamps.

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
E6	A	56 (LHD)	E21	A	56 (LHD)	N13	58 (LHD)
		66 (RHD)		B	66 (RHD)		68 (RHD)
E7	B	56 (LHD)	E49		56 (LHD)	O6	58 (LHD)
		66 (RHD)			66 (RHD)		68 (RHD)
E11		56 (LHD)	N6		58 (LHD)	O10	58 (LHD)
		66 (RHD)			68 (RHD)		68 (RHD)

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
1G		
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3F		
3G		
3N		
3O		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

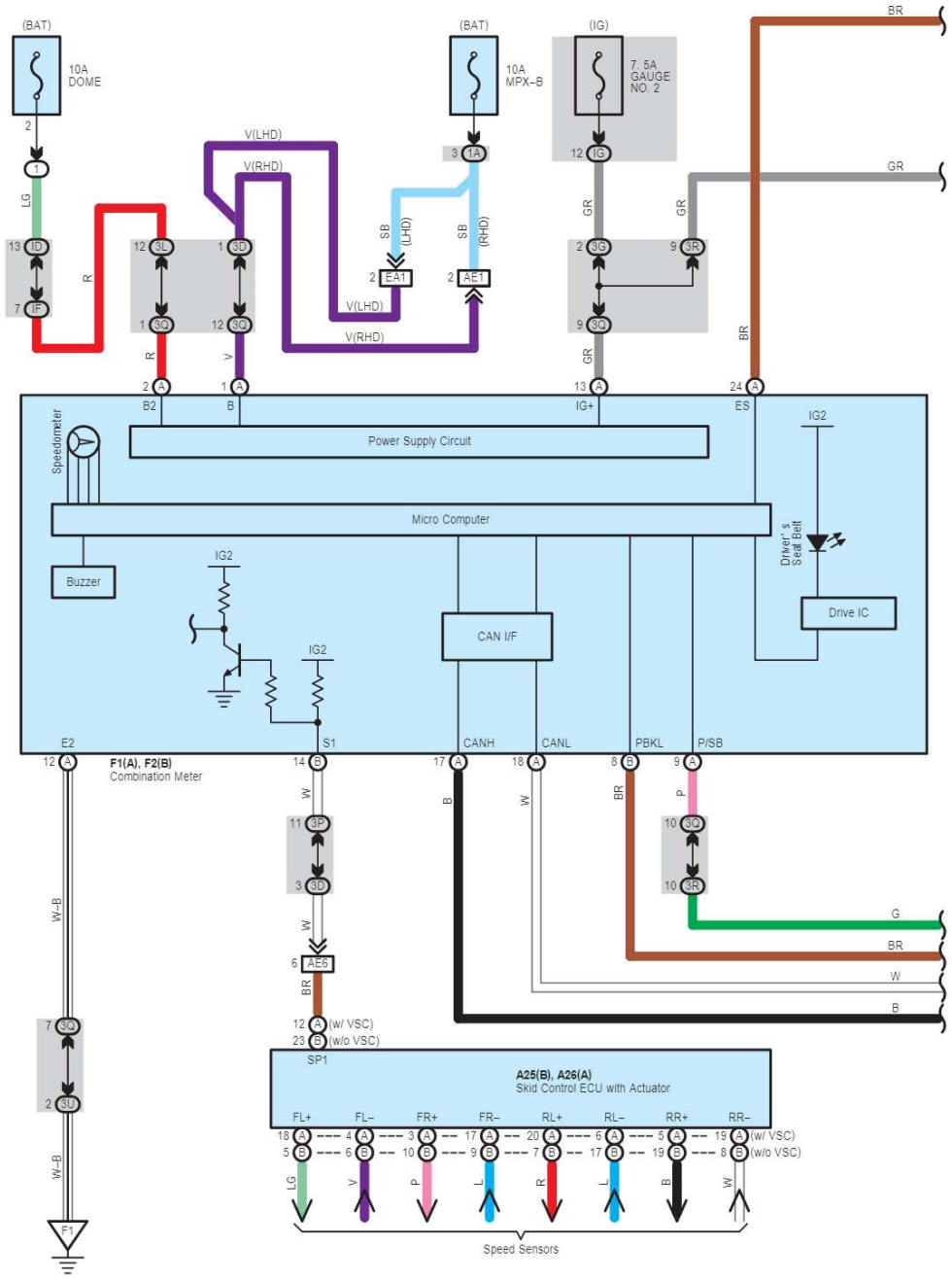
: **Connector Joining Wire Harness and Wire Harness**

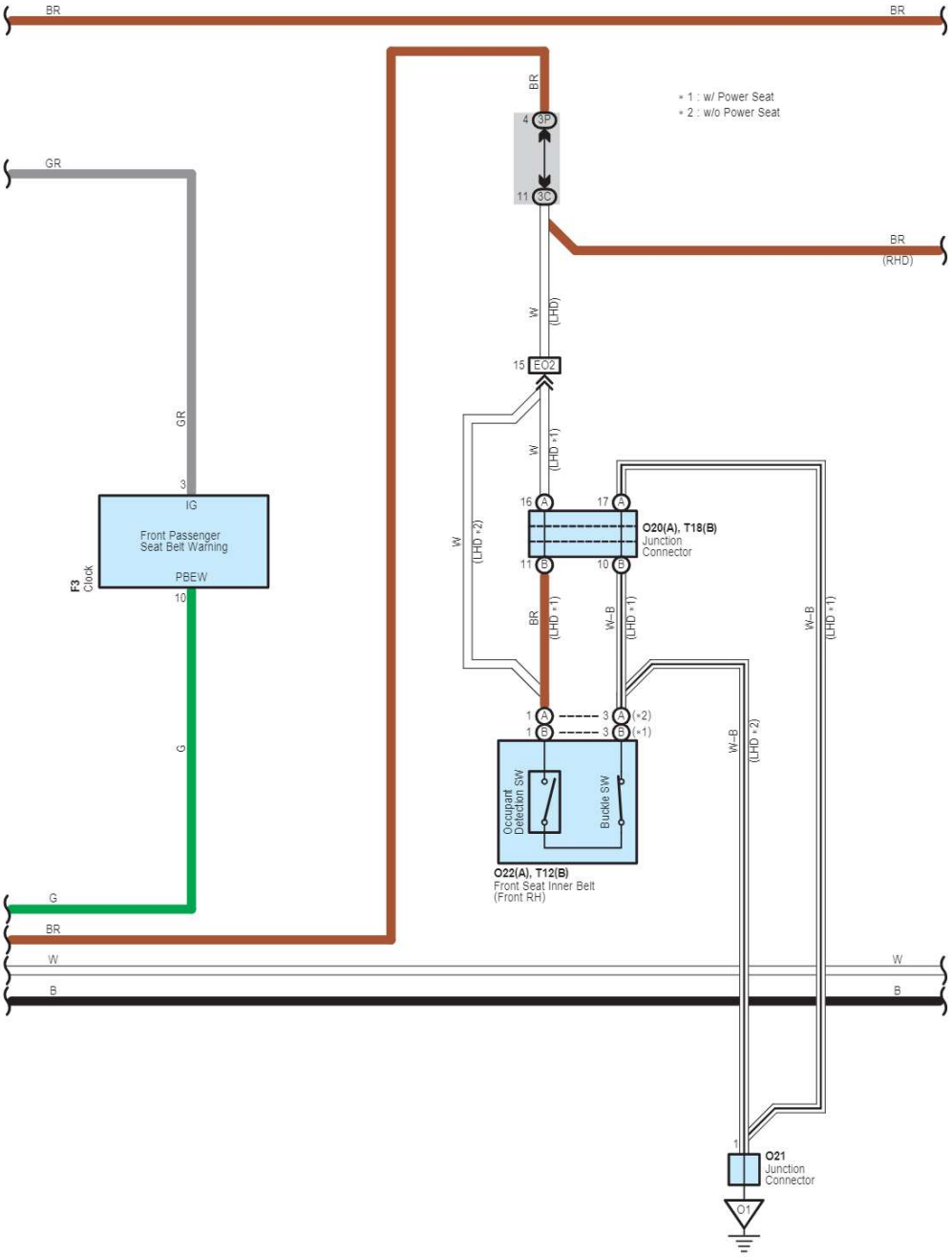
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

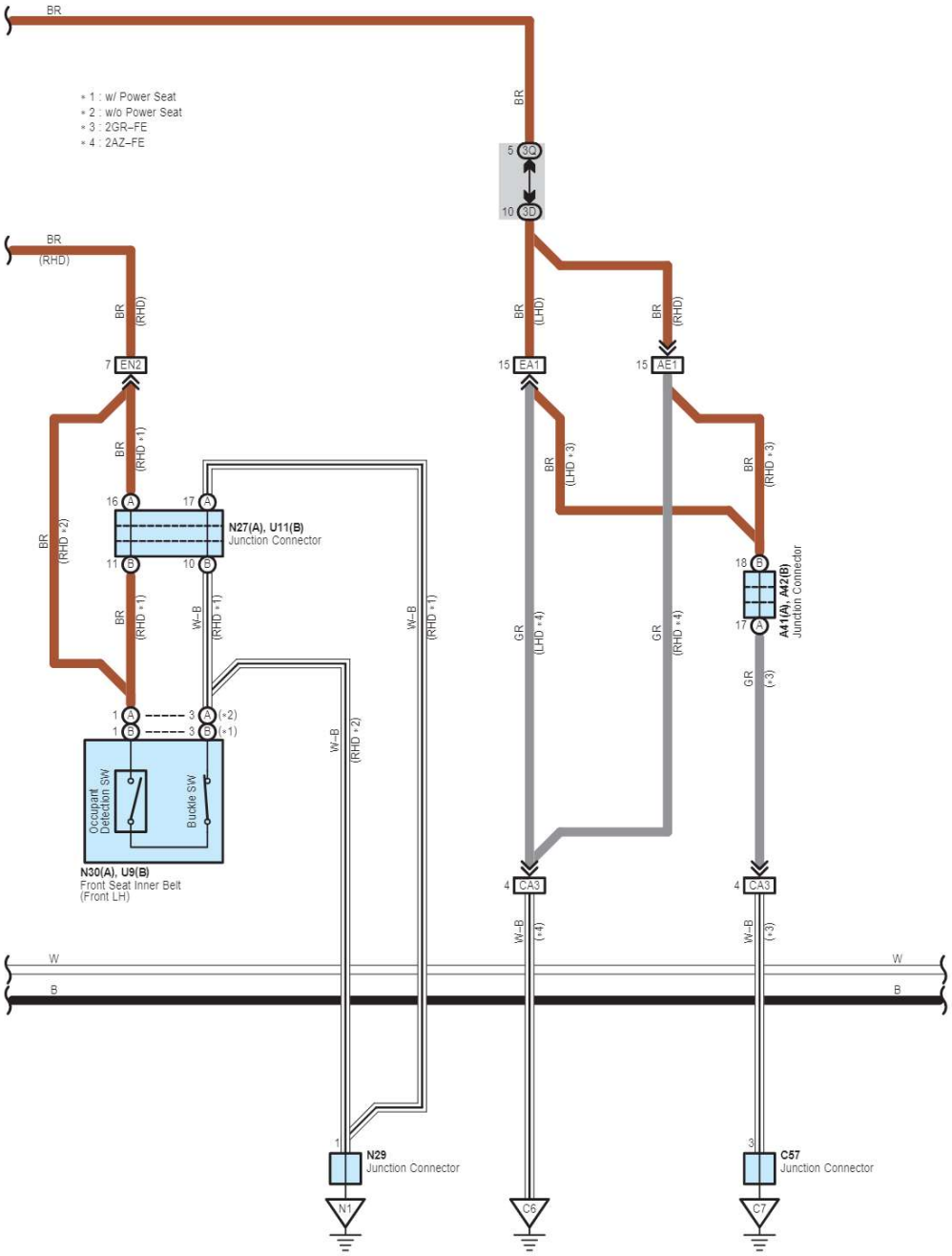
: **Ground Points**

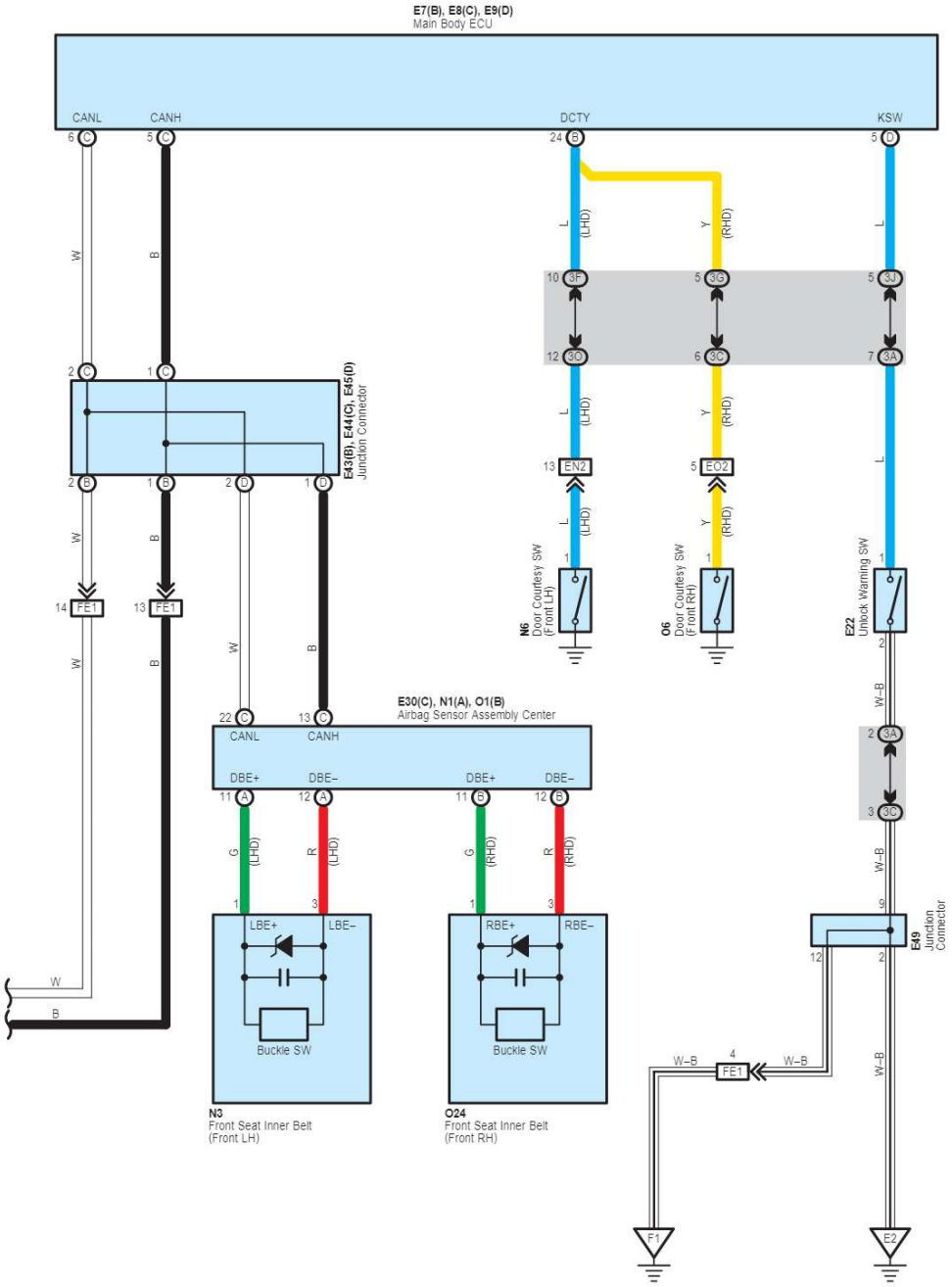
Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

Key Reminder and Seat Belt Warning




BR
BR
BR
(RHD)
GR
GR
W
(LHD)
W
(LHD *1)
W
(LHD *2)
BR
(LHD *1)
W-B
(LHD *1)
W-B
(LHD *1)
W-B
(LHD *2)
G
G
BR
W
W
B
B
* 1 : w/ Power Seat
* 2 : w/o Power Seat
4 3P
11 3C
15 E02
16 A
17 A
11 B
10 B
O20(A), T18(B)
Junction Connector
1 A
3 A (×2)
1 B
3 B (×1)
Occupant Detection SW
Buckle SW
O22(A), T12(B)
Front Seat Inner Belt (Front RH)
3
IG
Front Passenger Seat Belt Warning
PBEW
10
F3
Clock
1
O21
Junction Connector
O1


* 1 : w/ Power Seat
* 2 : w/o Power Seat
* 3 : 2GR–FE
* 4 : 2AZ–FE
BR
5 3C
10 3D
BR (RHD)
7 EN2
15 EA1
15 AE1
BR (LHD)
BR (RHD)
BR (RHD *1)
BR (LHD *3)
BR (RHD *3)
BR (RHD *2)
16 A
17 A
11 B
10 B
N27(A), U11(B)
Junction Connector
W–B (RHD *1)
W–B
W–B (RHD *2)
1 A
3 A (*2)
1 B
3 B (*1)
Occupant Detection SW
Buckle SW
N30(A), U9(B)
Front Seat Inner Belt (Front LH)
GR (LHD *4)
GR (RHD *4)
GR (*3)
18 B
17 A
A41(A), A42(B)
Junction Connector
4 CA3
W–B (*4)
W–B (*3)
W
B
1
N29
Junction Connector
3
C57
Junction Connector
N1
C6
C7


E7(B), E8(C), E9(D)
Main Body ECU
CANL
CANH
DCTY
KSW
E43(B), E44(C), E45(D)
Junction Connector
N6
Door Courtesy SW (Front LH)
O6
Door Courtesy SW (Front RH)
E22
Unlock Warning SW
E30(C), N1(A), O1(B)
Airbag Sensor Assembly Center
DBE+
DBE–
LBE+
LBE–
RBE+
RBE–
Buckle SW
N3
Front Seat Inner Belt (Front LH)
O24
Front Seat Inner Belt (Front RH)
E49
Junction Connector
F1
E2

Key Reminder 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 ignition SW is ON, the driver seat belt warning light blinks.
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.

O : Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	B	54 (*2)	E22		56 (LHD)	N1	A	57 (LHD)
		64 (*4)			66 (RHD)	N3		60 (LHD)
A26	A	52 (*1)	E30	C	56 (LHD)	N6		58 (LHD)
		54 (*2)			66 (RHD)	N27	A	70 (RHD)
		62 (*3)	E43	B	48, 56 (LHD)	N29		68 (RHD)
		64 (*4)			48, 66 (RHD)	N30	A	70 (RHD)
A41	A	57 (LHD)	E44	C	48, 56 (LHD)	O1	B	67 (RHD)
		67 (RHD)			48, 66 (RHD)	O6		68 (RHD)
A42	B	57 (LHD)	E45	D	48, 56 (LHD)	O20	A	60 (LHD)
		67 (RHD)			48, 66 (RHD)	O21		58 (LHD)
C57		53 (*1)	E49		56 (LHD)	O22	A	60 (LHD)
		63 (*3)			66 (RHD)	O24		70 (RHD)
E7	B	56 (LHD)	F1	A	57 (LHD)	T12	B	60 (LHD)
		66 (RHD)			67 (RHD)	T18	B	60 (LHD)
E8	C	56 (LHD)	F2	B	57 (LHD)	U9	B	70 (RHD)
		66 (RHD)			67 (RHD)	U11	B	70 (RHD)
E9	D	56 (LHD)	F3		57 (LHD)			
		66 (RHD)			67 (RHD)			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3F		
3G		
3J		
3L		
3O		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3R		
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

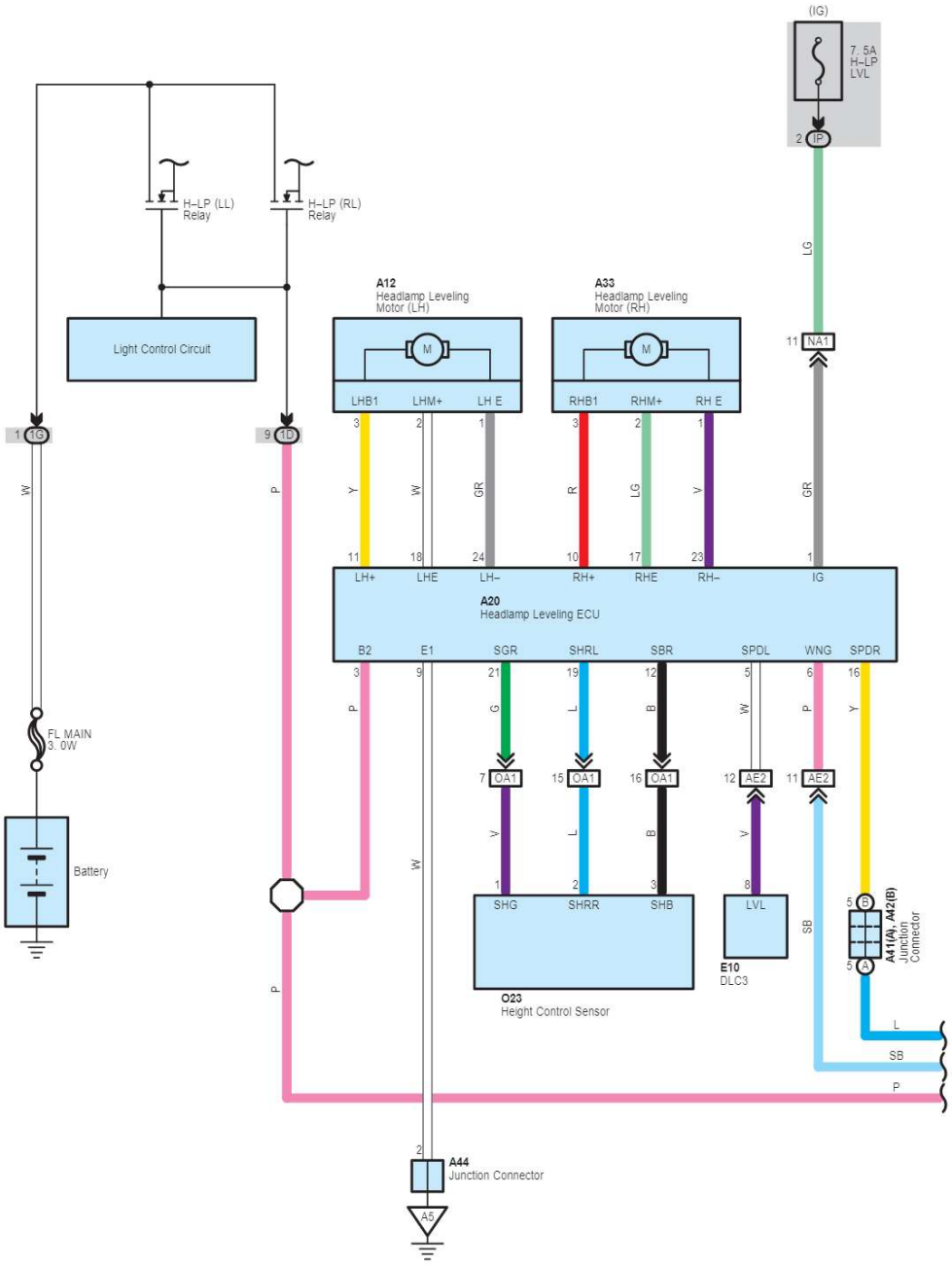
: **Connector Joining Wire Harness and Wire Harness**

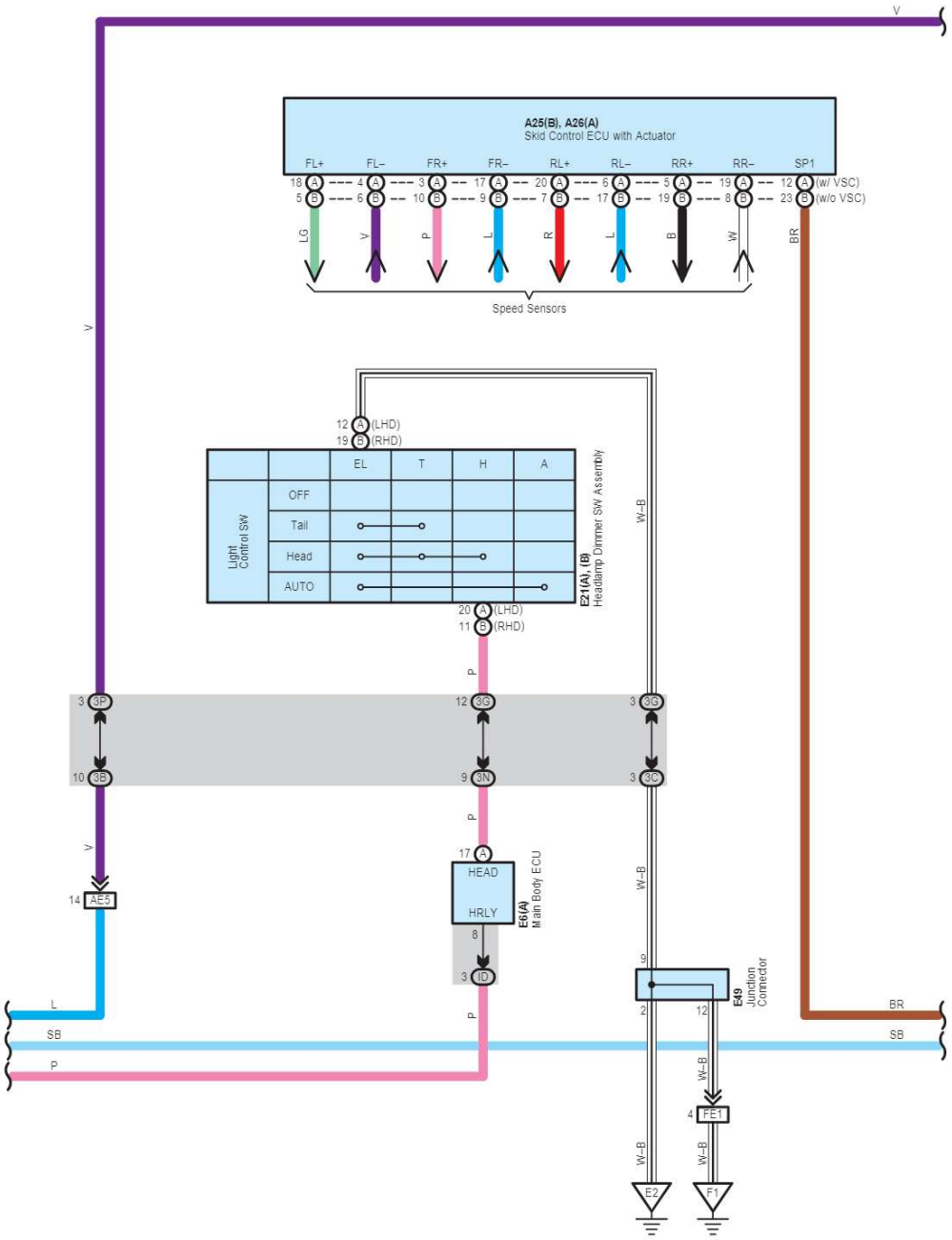
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE6	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

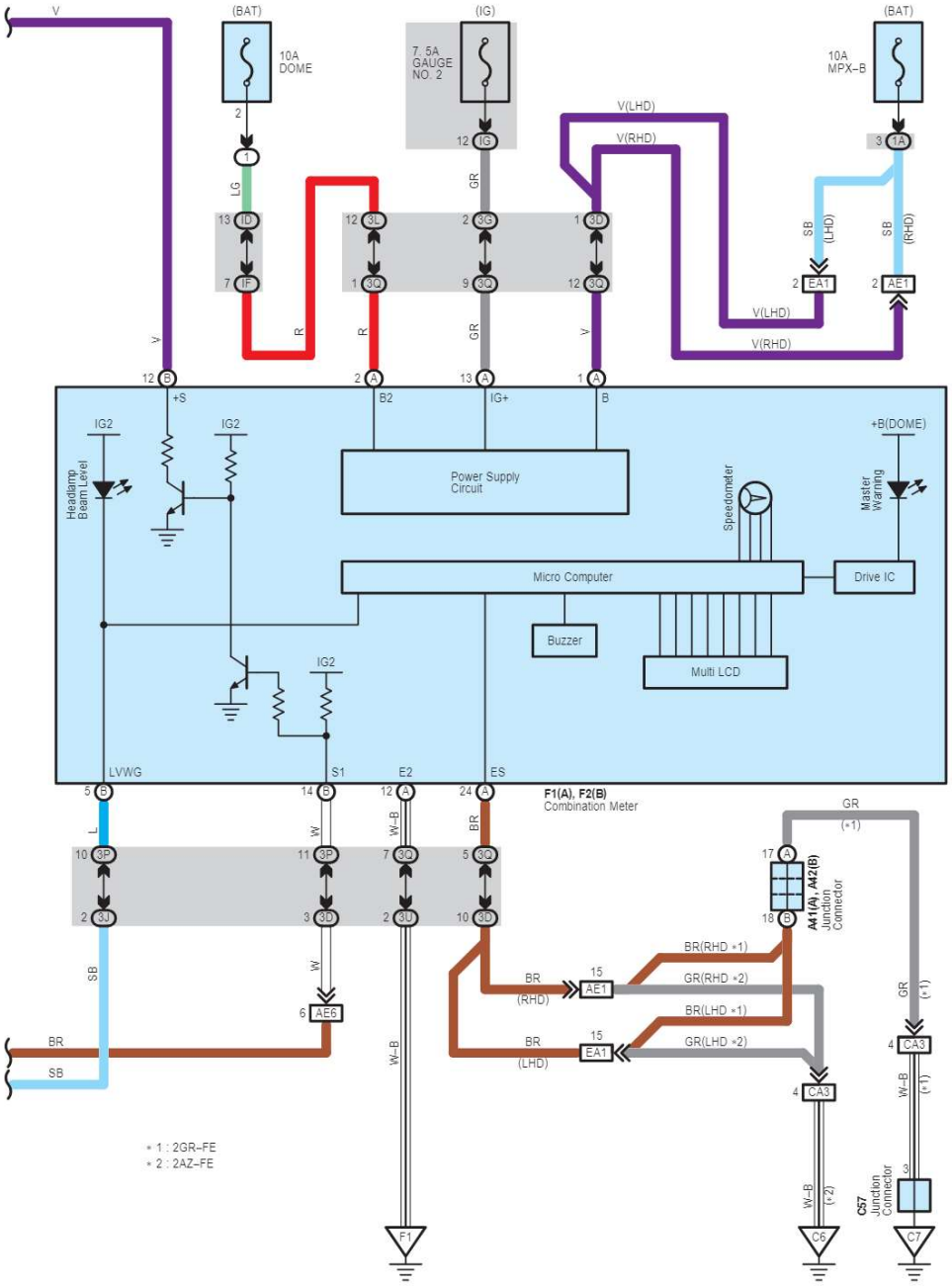
: **Ground Points**

Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	81 (RHD)	Quarter Panel LH
O1	75 (LHD)	Quarter Panel RH

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(IG)
7. 5A
H-LP
LVL
2 IP
LG
11 NA1
GR
1
H-LP (LL)
Relay
H-LP (RL)
Relay
Light Control Circuit
A12
Headlamp Leveling
Motor (LH)
A33
Headlamp Leveling
Motor (RH)
LHB1
LHM+
LH E
RHB1
RHM+
RH E
1 1G
9 1D
W
P
Y
W
GR
R
LG
V
11
18
24
10
17
23
LH+
LHE
LH-
RH+
RHE
RH-
IG
A20
Headlamp Leveling ECU
B2
E1
SGR
SHRL
SBR
SPDL
WNG
SPDR
3
9
21
19
12
5
6
16
P
G
L
B
W
P
Y
7 OA1
15 OA1
16 OA1
12 AE2
11 AE2
V
L
B
V
1
2
3
8
SHG
SHRR
SHB
LVL
O23
Height Control Sensor
E10
DLC3
SB
5 B
5 A
A41(A), A42(B)
Junction
Connector
L
SB
P
FL MAIN
3. 0W
Battery
2
A44
Junction Connector
A5


A25(B), A26(A)
Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
SP1
(w/ VSC)
(w/o VSC)
LG
V
P
L
R
L
B
W
BR
Speed Sensors
(LHD)
(RHD)
EL
T
H
A
OFF
Tail
Head
AUTO
Light Control SW
E21(A), (B)
Headlamp Dimmer SW Assembly
W–B
3P
3B
3G
3C
3N
AE5
HEAD
HRLY
E6(A)
Main Body ECU
1D
E49
Junction Connector
FE1
E2
F1
SB


V
(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX-B
V(LHD)
V(RHD)
LG
GR
SB
(LHD)
SB
(RHD)
R
V
+S
B2
IG+
B
+B(DOME)
IG2
Headlamp
Beam Level
Power Supply
Circuit
Speedometer
Master
Warning
Micro Computer
Drive IC
Buzzer
Multi LCD
LVWG
S1
E2
ES
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction
Connector
BR(RHD *1)
GR(RHD *2)
BR(LHD *1)
GR(LHD *2)
BR
(RHD)
BR
(LHD)
W-B
(*1)
W-B
(*2)
CS7
Junction
Connector
* 1 : 2GR-FE
* 2 : 2AZ-FE

System Outline

This system calculates changes in the illuminating angle from changes in the vehicle height and axle distance basted on the information on the vehicle height detected by the height control sensors installed at the rear of the vehicle and information on the vehicle speed and acceleration output from the skid control ECU with actuator to reversely operate the reflector by the obtained illuminating angle through actuators in order to always keep the beam axis constant.
If an error occurs in this system, the headlight beam level control warning light in the combination meter lights up to warn the driver.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A12		52 (*1)	A33		62 (*3)	E10		56 (LHD)
		54 (*2)			64 (*4)			66 (RHD)
		62 (*3)	A41	A	57 (LHD)	E21	A	56 (LHD)
		64 (*4)			67 (RHD)		B	66 (RHD)
A20		57 (LHD)	A42	B	57 (LHD)	E49		56 (LHD)
		67 (RHD)			67 (RHD)			66 (RHD)
A25	B	54 (*2)	A44		52 (*1)	F1	A	57 (LHD)
		64 (*4)			54 (*2)			67 (RHD)
A26	A	52 (*1)			62 (*3)	F2	B	57 (LHD)
		54 (*2)			64 (*4)			67 (RHD)
		62 (*3)	C57		53 (*1)	O23		58 (LHD)
		64 (*4)			63 (*3)			68 (RHD)
A33		52 (*1)	E6	A	56 (LHD)			
		54 (*2)			66 (RHD)			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1G	24	
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3G		
3J		
3L		
3N		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

Headlight Beam Level Control for Automatic

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

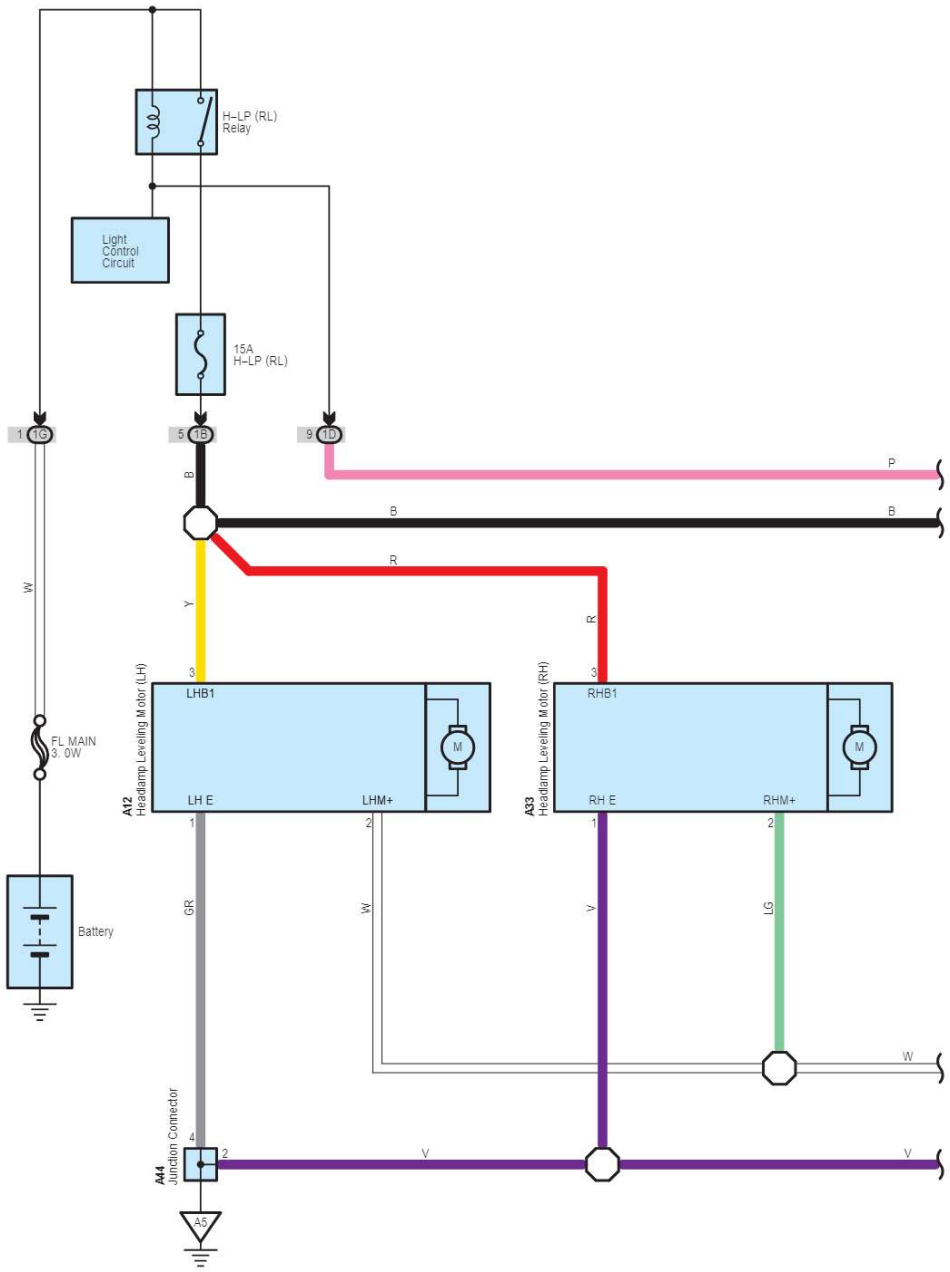
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	
OA1	74 (LHD)	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
	80 (RHD)	

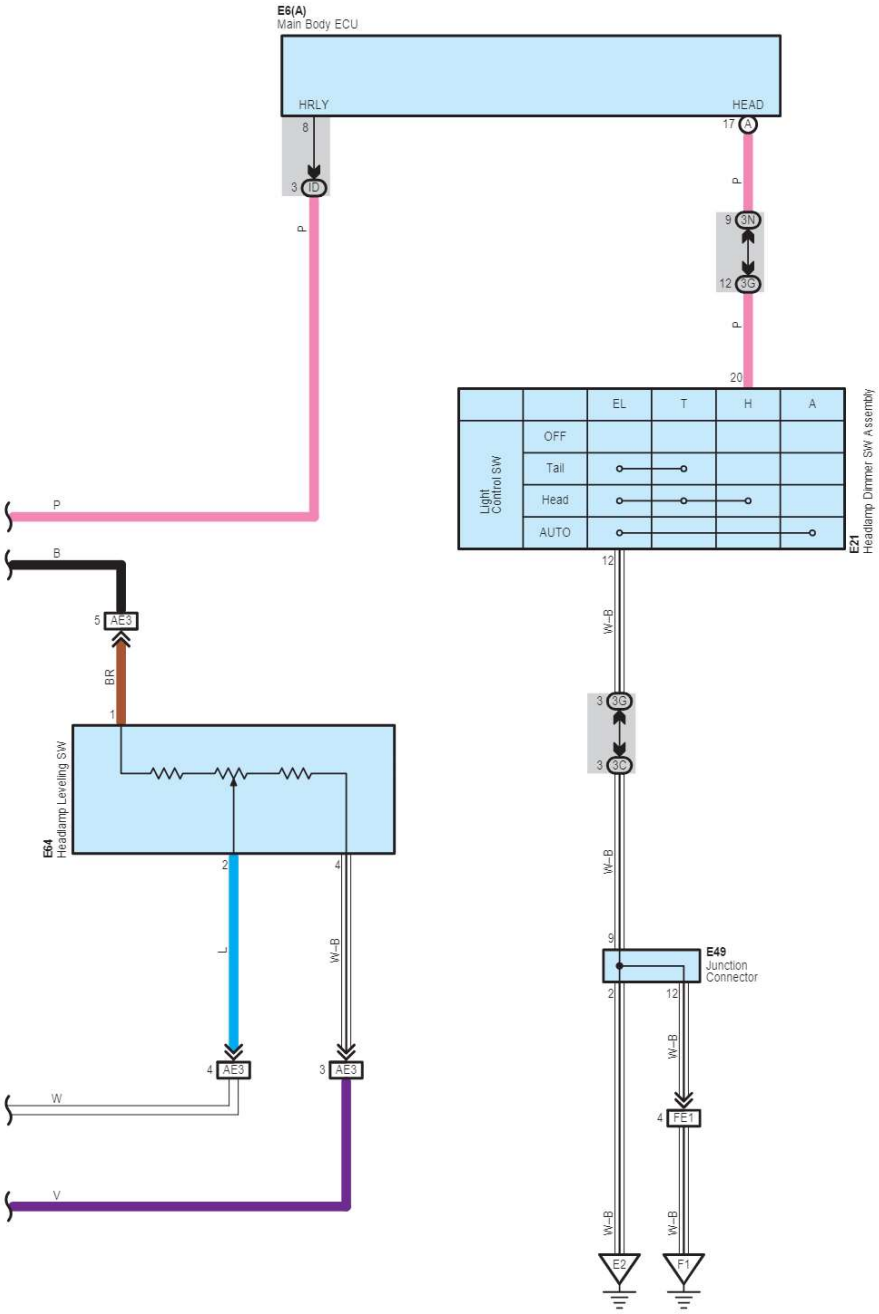
: **Ground Points**

Code	See Page	Ground Points Location
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

Headlight Beam Level Control for Manual




E6(A)
Main Body ECU
HRLY
HEAD
8
3 1D
17 A
P
9 3N
12 3G
P
20
EL
T
H
A
OFF
Tail
Head
AUTO
Light Control SW
E21
Headlamp Dimmer SW Assembly
P
B
5 AE3
BR
1
E64
Headlamp Leveling SW
2
4
L
W-B
4 AE3
3 AE3
W
V
12
W-B
3 3G
3 3C
W-B
9
E49
Junction Connector
2
12
W-B
4 FE1
W-B
W-B
E2
F1

Headlight Beam Level Control for Manual

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	52 (*1)	A44	52 (*1)	E49	56 (LHD)
	54 (*2)		54 (*2)	E64	56 (LHD)
A33	52 (*1)	E6 A	56 (LHD)		
	54 (*2)	E21	56 (LHD)		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1G	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3G		
3N		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

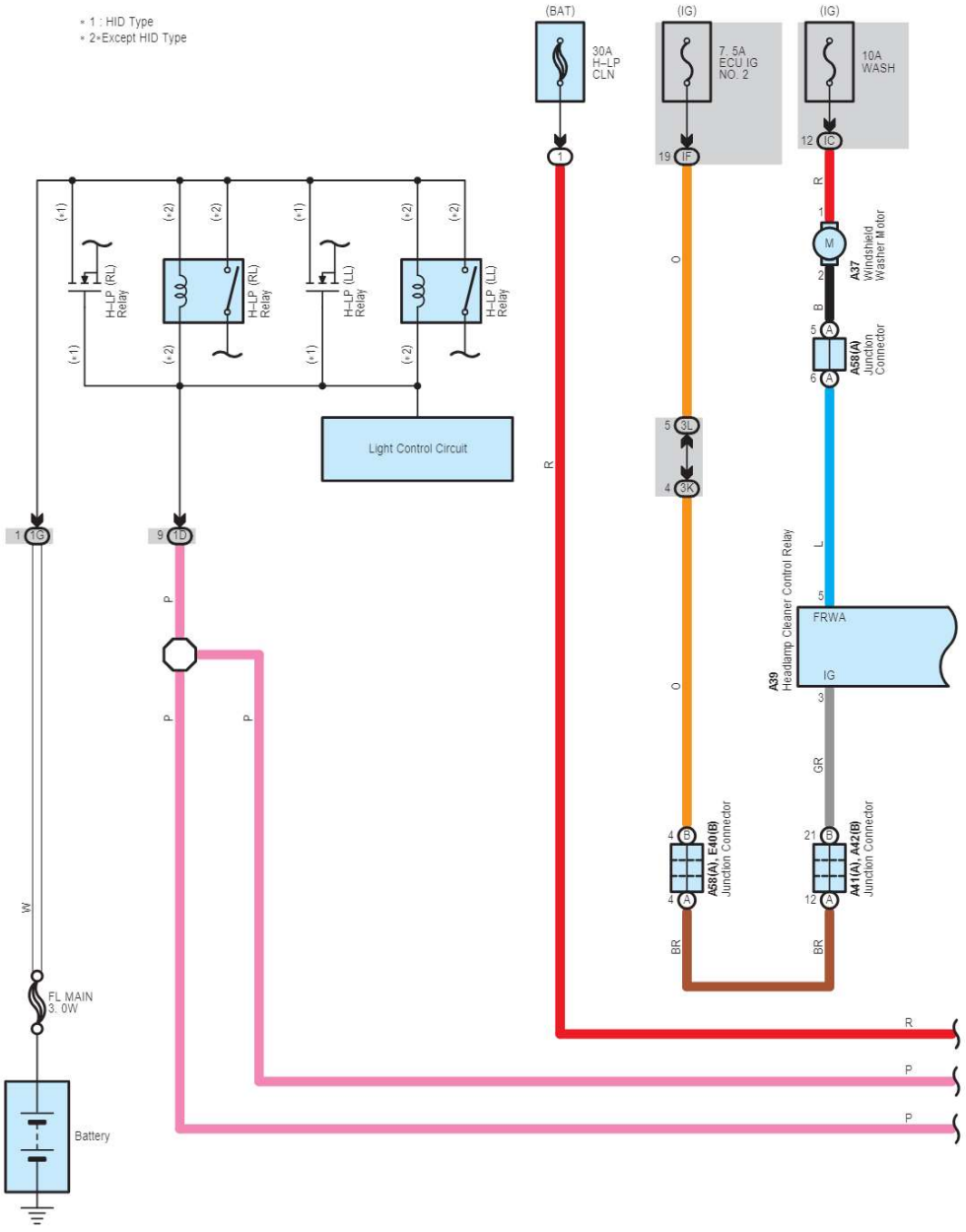
▭ : Connector Joining Wire Harness and Wire Harness

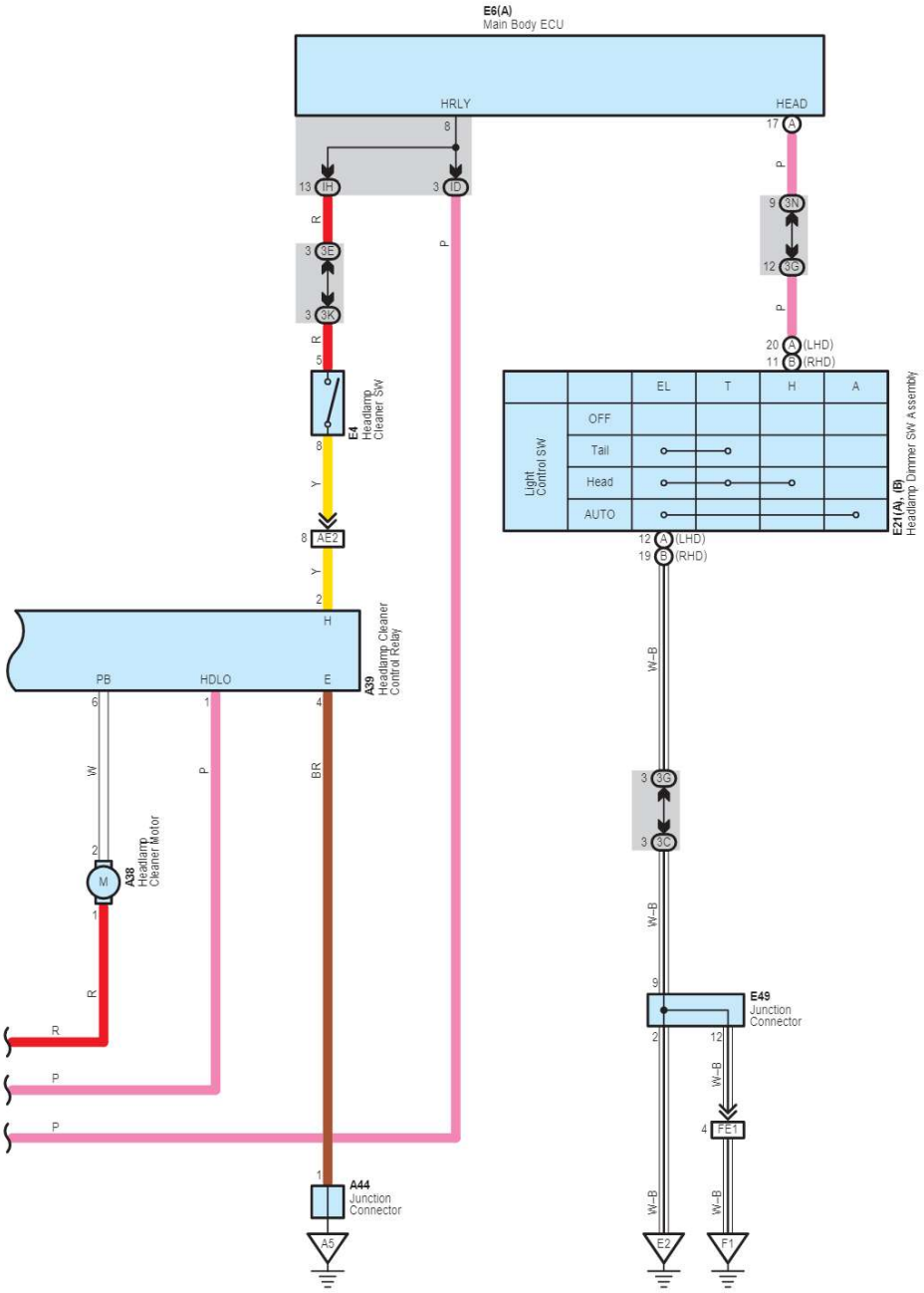
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)

▽ : Ground Points

Code	See Page	Ground Points Location
A5	72 (*1)	Front Right Fender
	73 (*2)	
E2	74 (LHD)	Instrument Panel Brace LH
F1	74 (LHD)	Instrument Panel Left

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


* 1 : HID Type
* 2*Except HID Type
(BAT)
(IG)
(IG)
30A H-LP CLN
7.5A ECU IG NO. 2
10A WASH
H-LP (RL) Relay
H-LP (RL) Relay
H-LP (LL) Relay
H-LP (LL) Relay
Light Control Circuit
A37 Windshield Washer Motor
A58(A) Junction Connector
A39 Headlamp Cleaner Control Relay
FRWA
IG
A58(A), E40(B) Junction Connector
A41(A), A42(B) Junction Connector
FL MAIN 3.0W
Battery


E6(A)
Main Body ECU
HRLY
HEAD
8
13 1H
3 1D
17 A
P
9 3N
12 3G
P
20 A (LHD)
11 B (RHD)
R
3 3E
3 3K
R
5
E4
Headlamp Cleaner SW
8
Y
8 AE2
Y
2
H
A39
Headlamp Cleaner Control Relay
PB
HDLO
E
6
1
4
W
P
BR
2
M
A38
Headlamp Cleaner Motor
1
R
R
P
P
1
A44
Junction Connector
A5
EL
T
H
A
Light Control SW
OFF
Tail
Head
AUTO
E21(A), (B)
Headlamp Dimmer SW Assembly
12 A (LHD)
19 B (RHD)
W-B
3 3G
3 3C
W-B
9
E49
Junction Connector
2
12
W-B
4 FE1
W-B
W-B
E2
F1

Headlight Cleaner

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A37	52 (*1)	A39	64 (*4)	E4	56 (LHD)
	54 (*2)	A41 A	57 (LHD)		66 (RHD)
	62 (*3)		67 (RHD)	E6 A	56 (LHD)
	64 (*4)	A42 B	57 (LHD)		66 (RHD)
A38	52 (*1)		67 (RHD)	E21 A	56 (LHD)
	54 (*2)	A44	52 (*1)	B	66 (RHD)
	62 (*3)		54 (*2)	E40 B	56 (LHD)
	64 (*4)		62 (*3)		66 (RHD)
A39	52 (*1)		64 (*4)	E49	56 (LHD)
	54 (*2)	A58 A	57 (LHD)		66 (RHD)
	62 (*3)		67 (RHD)		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1G	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3E		
3G		
3K		
3L		
3N		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

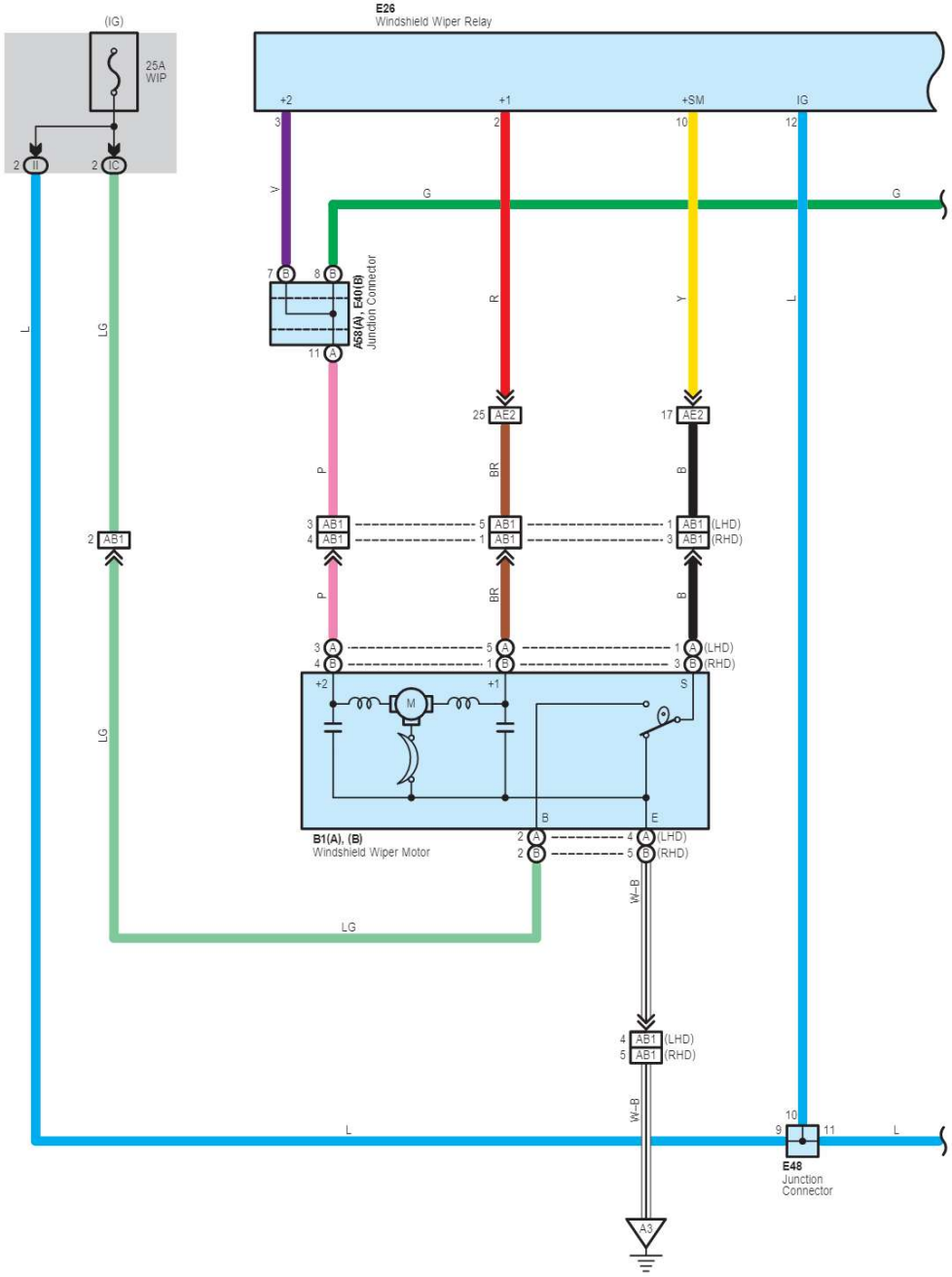
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

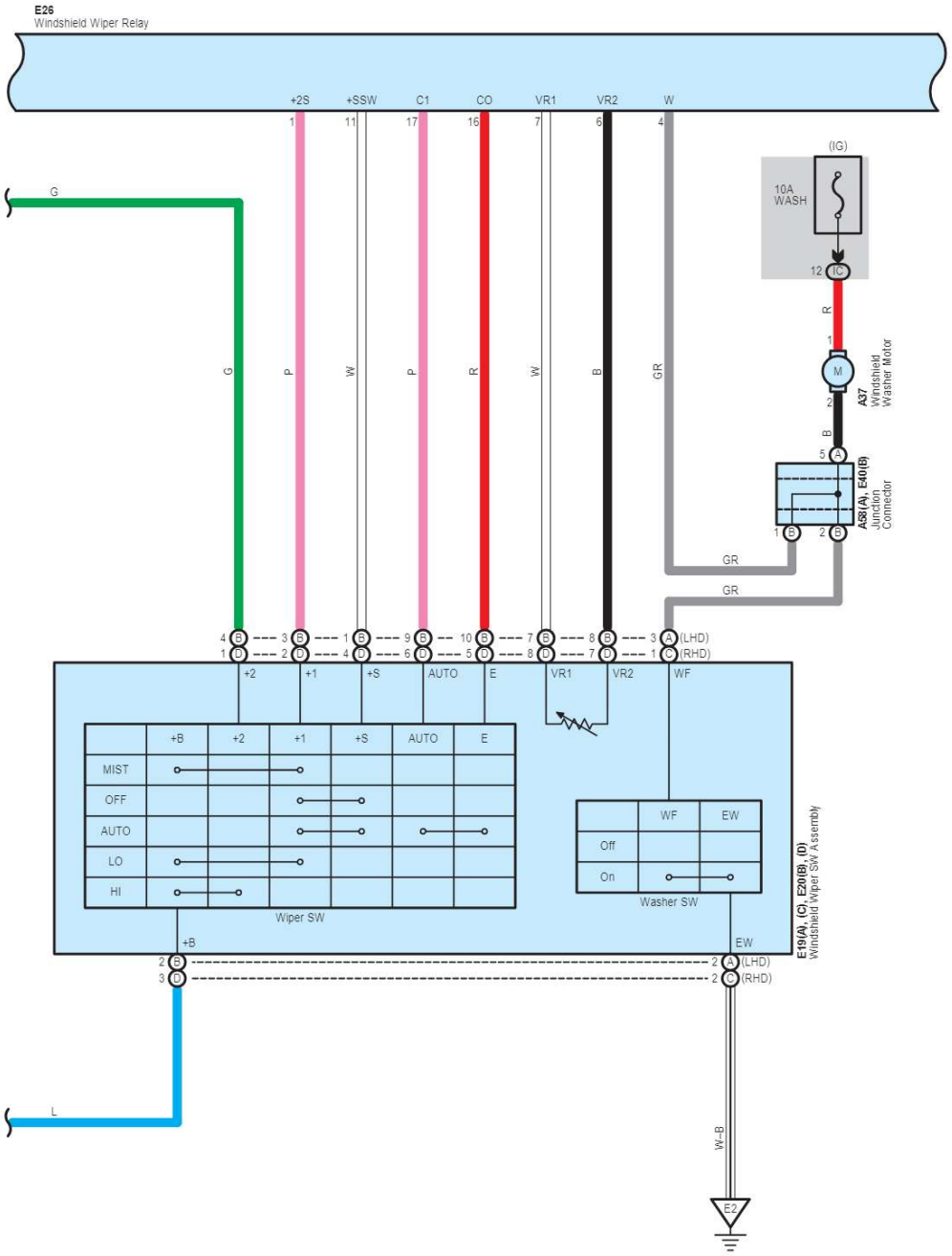
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

▽ : **Ground Points**

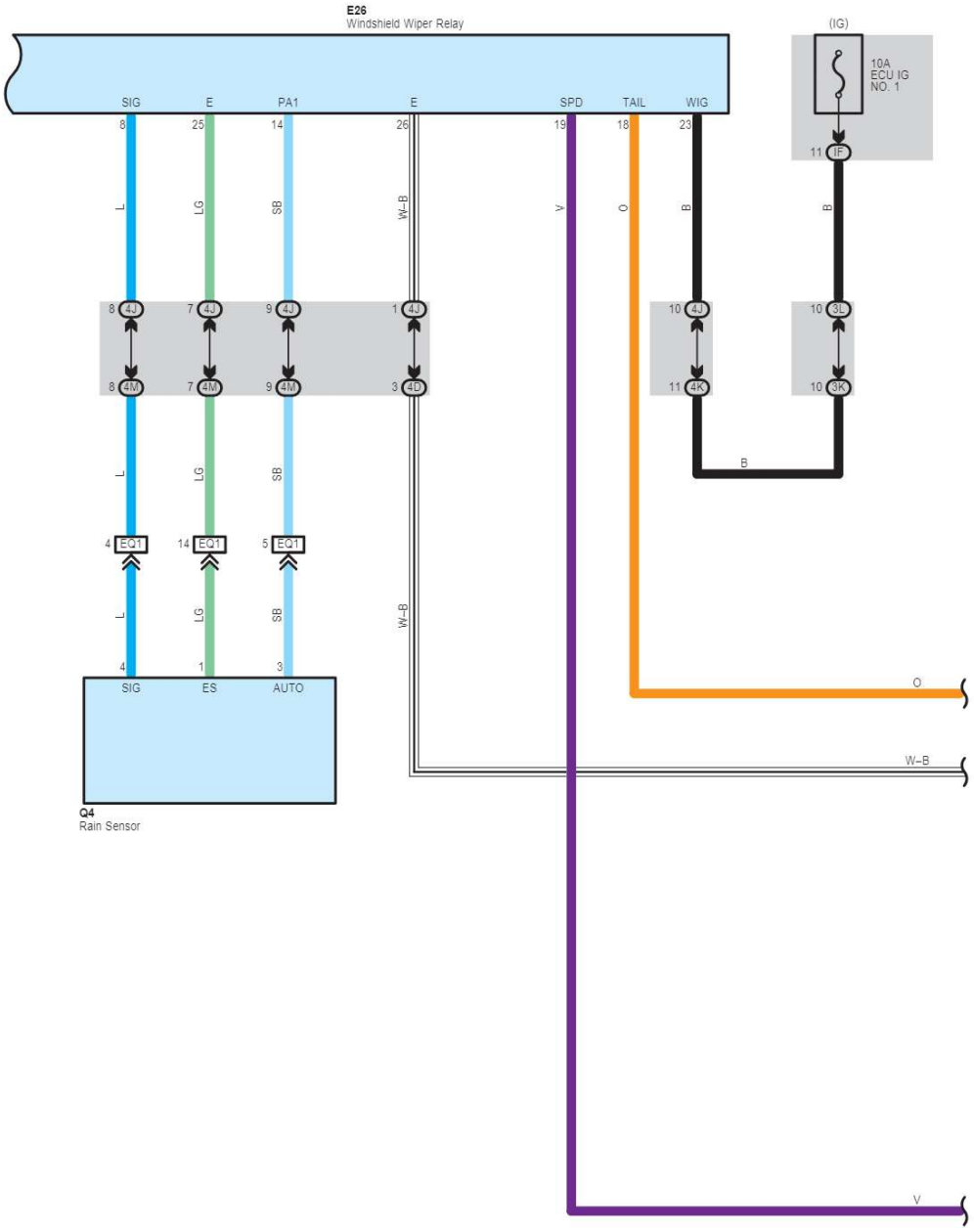
Code	See Page	Ground Points Location
A5	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

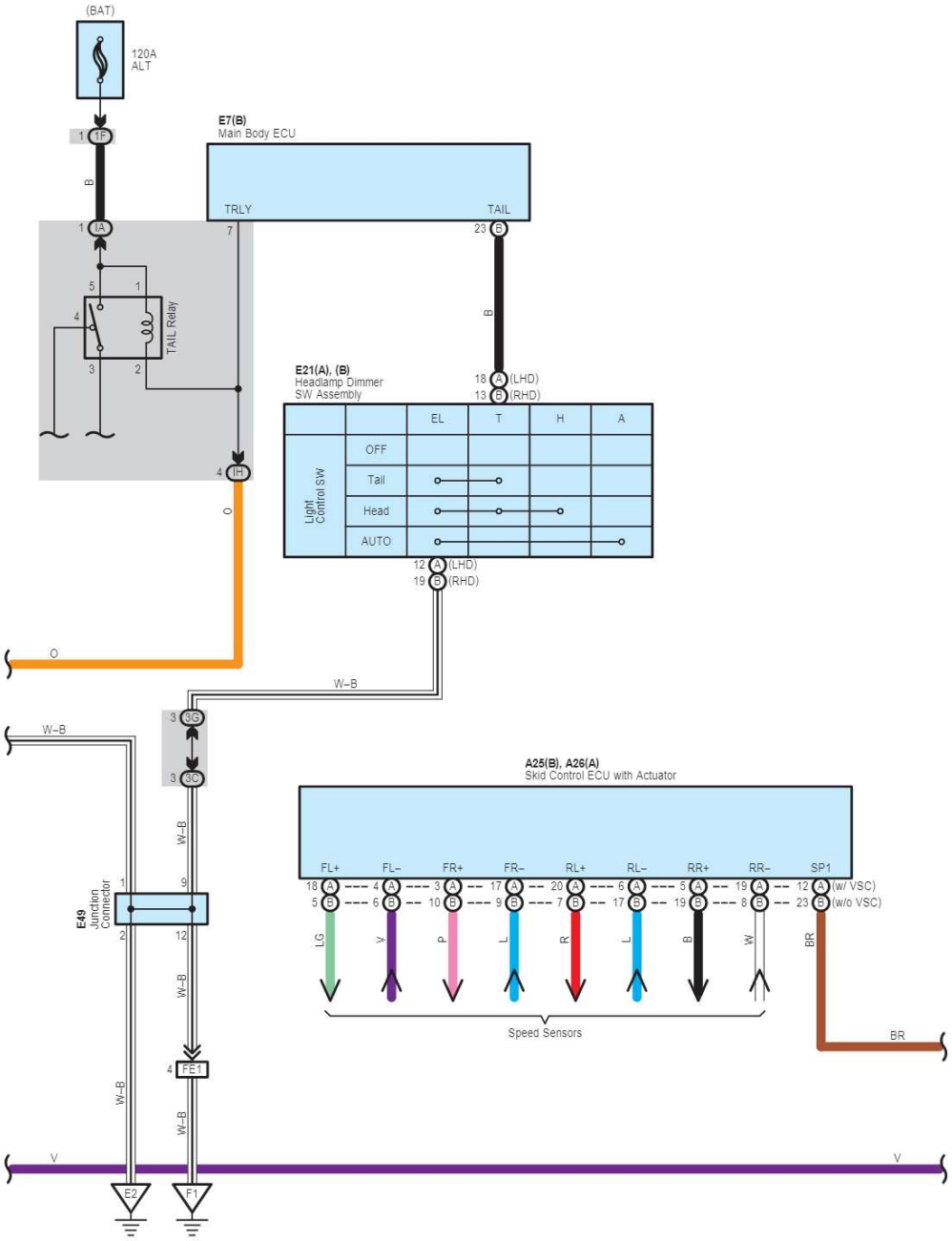
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

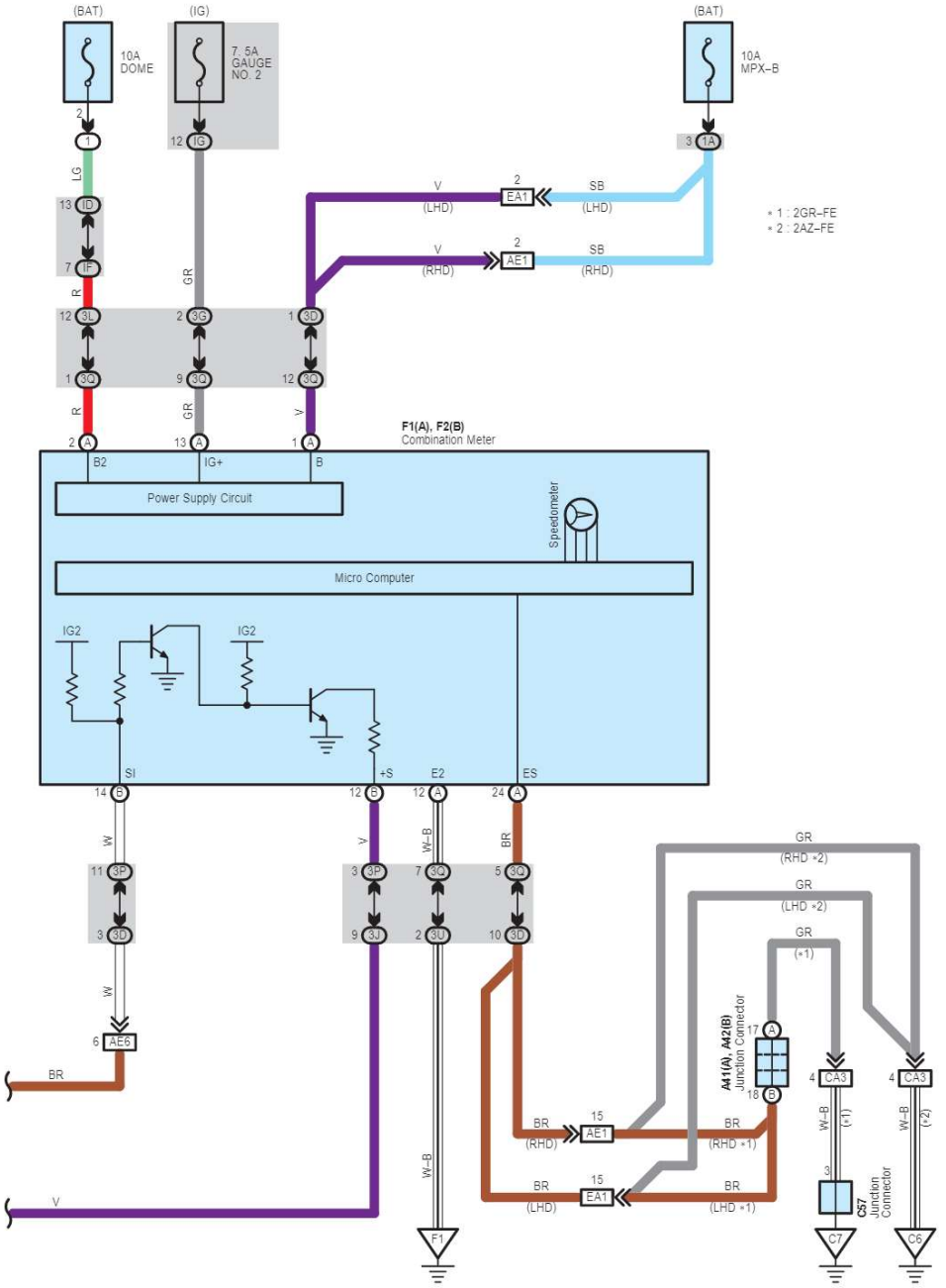

(IG)
25A
WIP
2 1I
2 1C
E26
Windshield Wiper Relay
+2
+1
+SM
IG
3
2
10
12
Y
G
G
7 B
8 B
11 A
A58(A), E40(B)
Junction Connector
R
Y
L
L
LG
25 AE2
17 AE2
P
BR
B
2 AB1
3 AB1
4 AB1
5 AB1
1 AB1
1 AB1
3 AB1
(LHD)
(RHD)
P
BR
B
3 A
4 B
5 A
1 B
1 A
3 B
(LHD)
(RHD)
+2
+1
S
M
LG
B
E
B1(A), (B)
Windshield Wiper Motor
2 A
2 B
4 A
5 B
(LHD)
(RHD)
W–B
LG
4 AB1
5 AB1
(LHD)
(RHD)
W–B
L
10
9
11
L
E48
Junction
Connector
A3


E26
Windshield Wiper Relay
+2S
+SSW
C1
CO
VR1
VR2
W
(IG)
10A
WASH
G
P
W
R
B
GR
A37
Windshield
Washer Motor
A58(A), E40(B)
Junction
Connector
(LHD)
(RHD)
+2
+1
+S
AUTO
E
VR1
VR2
WF
MIST
OFF
AUTO
LO
HI
Wiper SW
Off
On
Washer SW
E19(A), (C), E20(B), (D)
Windshield Wiper SW Assembly
+B
EW
L
W-B
E2

Front Wiper and Washer




(BAT)
120A
ALT
E7(B)
Main Body ECU
TRLY
TAIL
TAIL Relay
E21(A), (B)
Headlamp Dimmer
SW Assembly
EL
T
H
A
OFF
Tail
Head
AUTO
Light Control SW
(LHD)
(RHD)
A25(B), A26(A)
Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
SP1
(w/ VSC)
(w/o VSC)
Speed Sensors
E49
Junction Connector
FE1
E2
F1
W−B
O
V
LG
P
L
R
B
W
BR


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
LG
GR
R
V
SB
(LHD)
(RHD)
EA1
AE1
* 1 : 2GR-FE
* 2 : 2AZ-FE
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Micro Computer
IG2
SI
+S
E2
ES
W
W-B
BR
GR
(RHD *2)
(LHD *2)
(*1)
A41(A), A42(B)
Junction Connector
CA3
(*1)
(*2)
C57
Junction Connector
C7
C6
F1
AE6

System Outline

Auto Wiper Operation

When the wiper SW is placed to AUTO position, the rain sensor detects the amount of rain on the front windshield, and a signal is output to the windshield wiper relay. The wiper controller automatically controls the intermittent time and operates the wiper, in accordance with the signal.

○ : Parts Location

Code		See Page
A25	B	54 (*2)
		64 (*4)
A26	A	52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A37		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A58	A	57 (LHD)

Code		See Page
A58	A	67 (RHD)
B1	A	52 (*1)
		54 (*2)
	B	63 (*3)
		65 (*4)
C57		53 (*1)
		63 (*3)
E7	B	56 (LHD)
		66 (RHD)
E19	A	56 (LHD)
	C	66 (RHD)
E20	B	56 (LHD)
	D	66 (RHD)
E21	A	56 (LHD)
	B	66 (RHD)

Code		See Page
E26		56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)
E48		56 (LHD)
		66 (RHD)
E49		56 (LHD)
		66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
Q4		59 (LHD)
		69 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	24	
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3J		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4D	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4J		
4K		
4M		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AB1	72 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Near the Windshield Wiper Motor)
	73 (*2)	
	78 (*3)	
	79 (*4)	
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE6	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

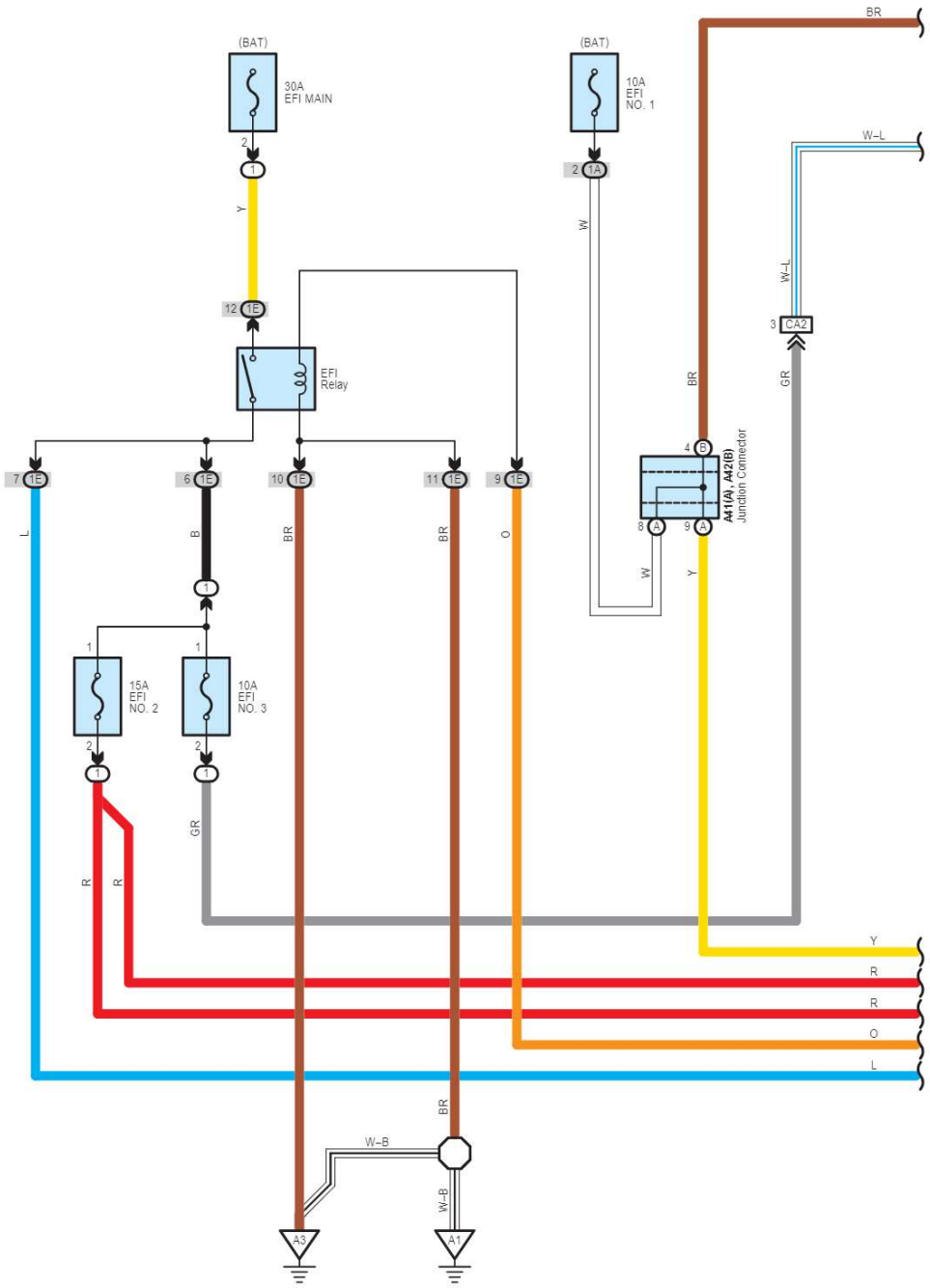
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

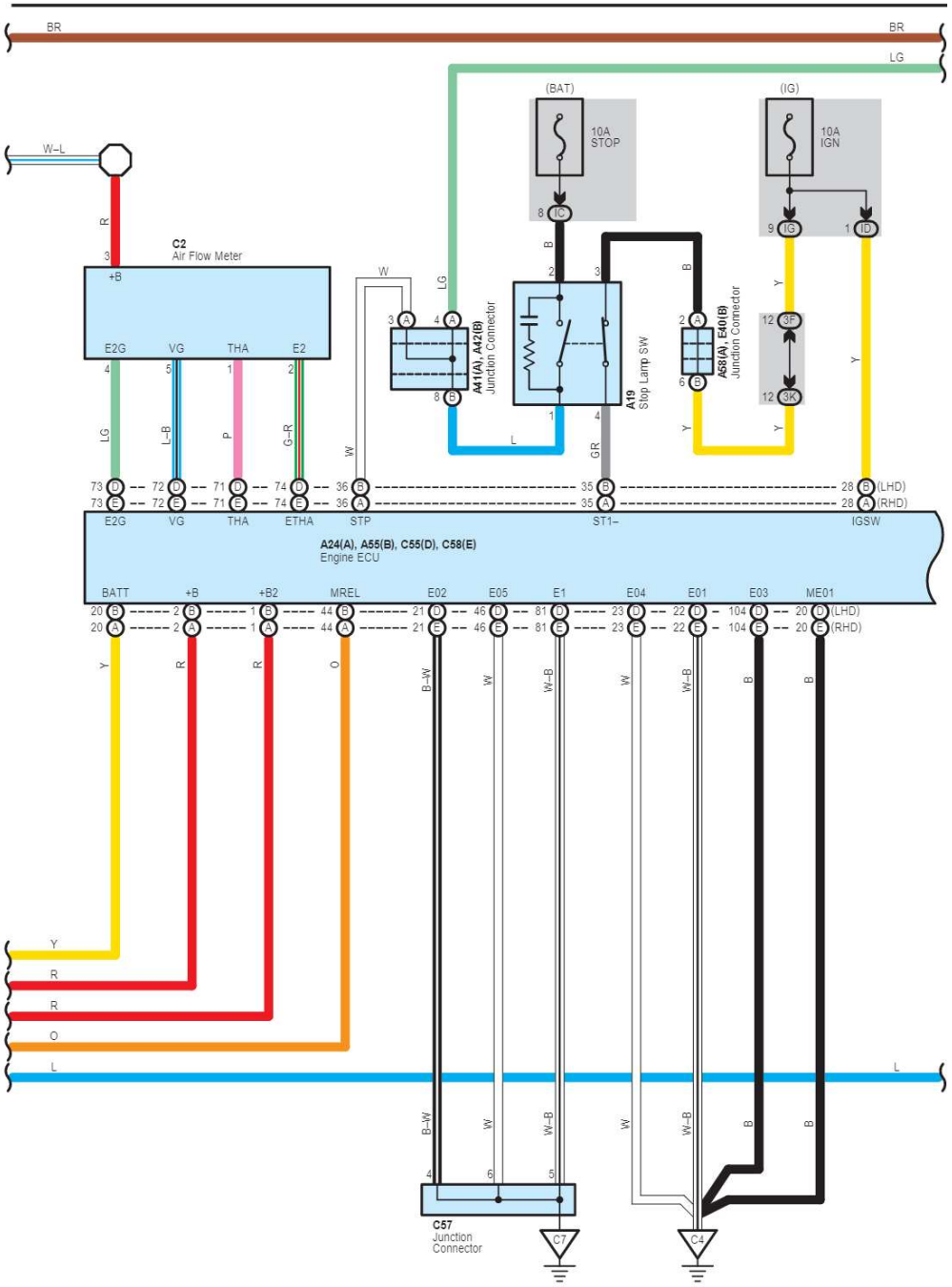
▽ : **Ground Points**

Code	See Page	Ground Points Location
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

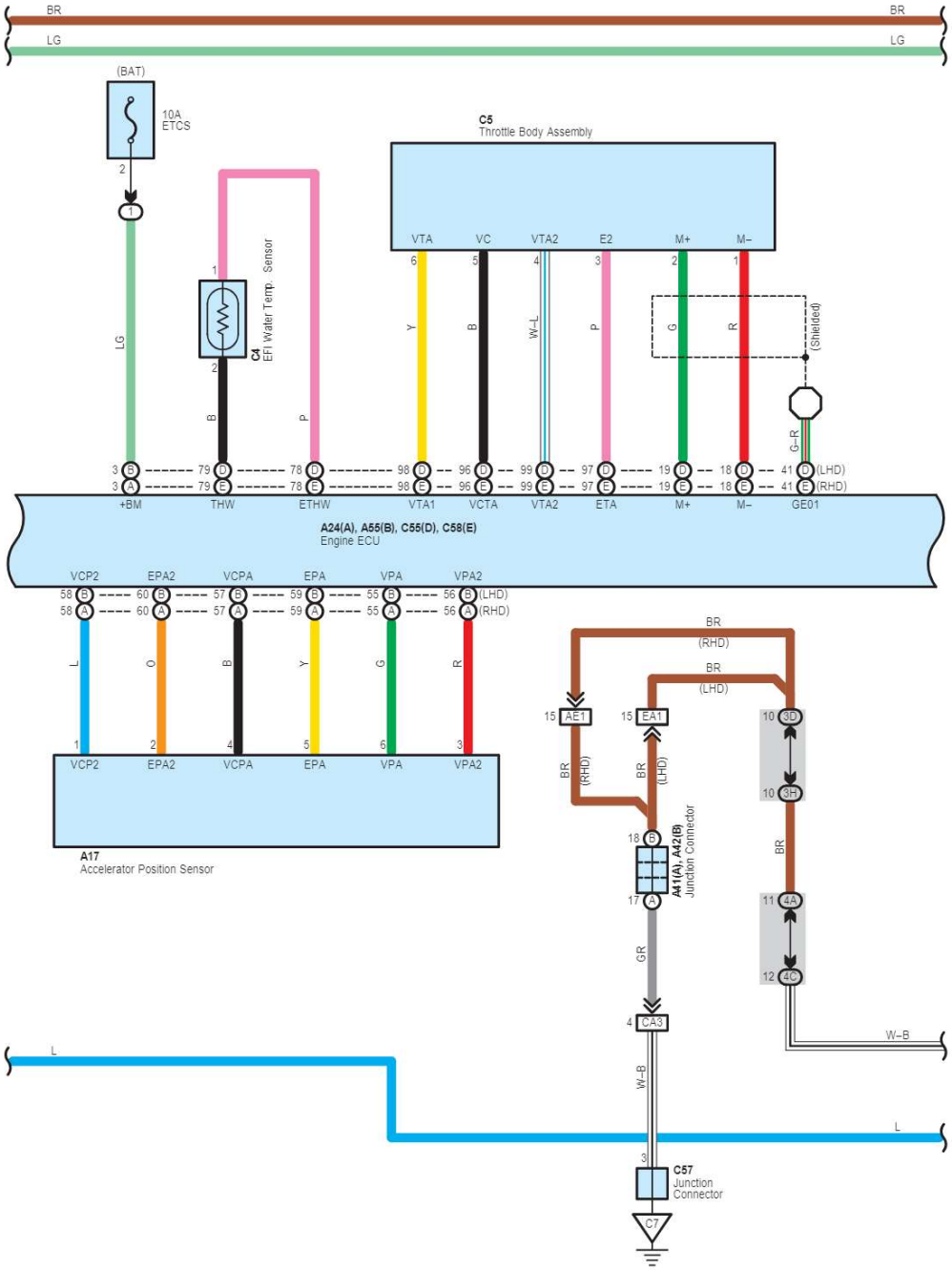
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

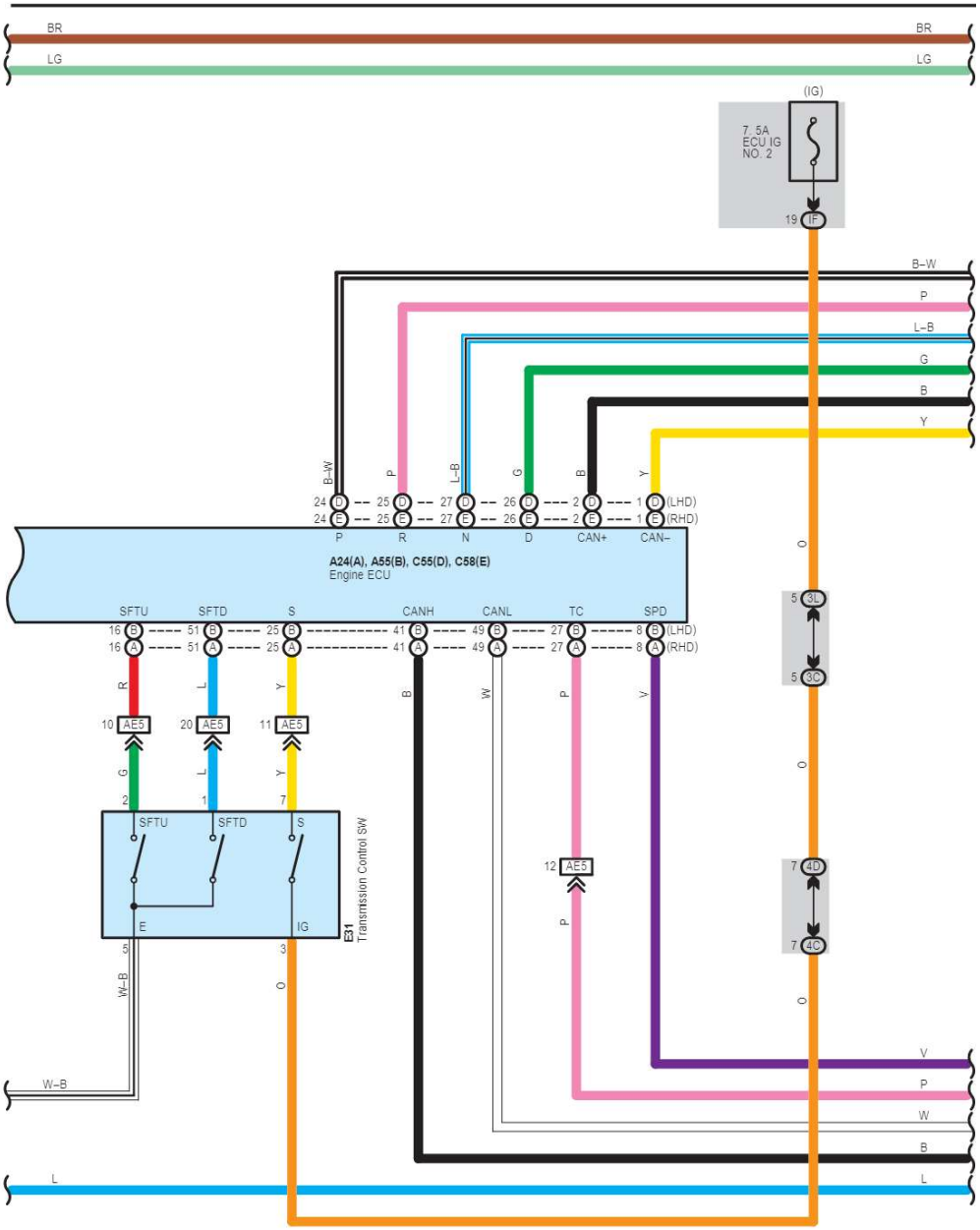
ECT and A/T Indicator (2GR–FE)

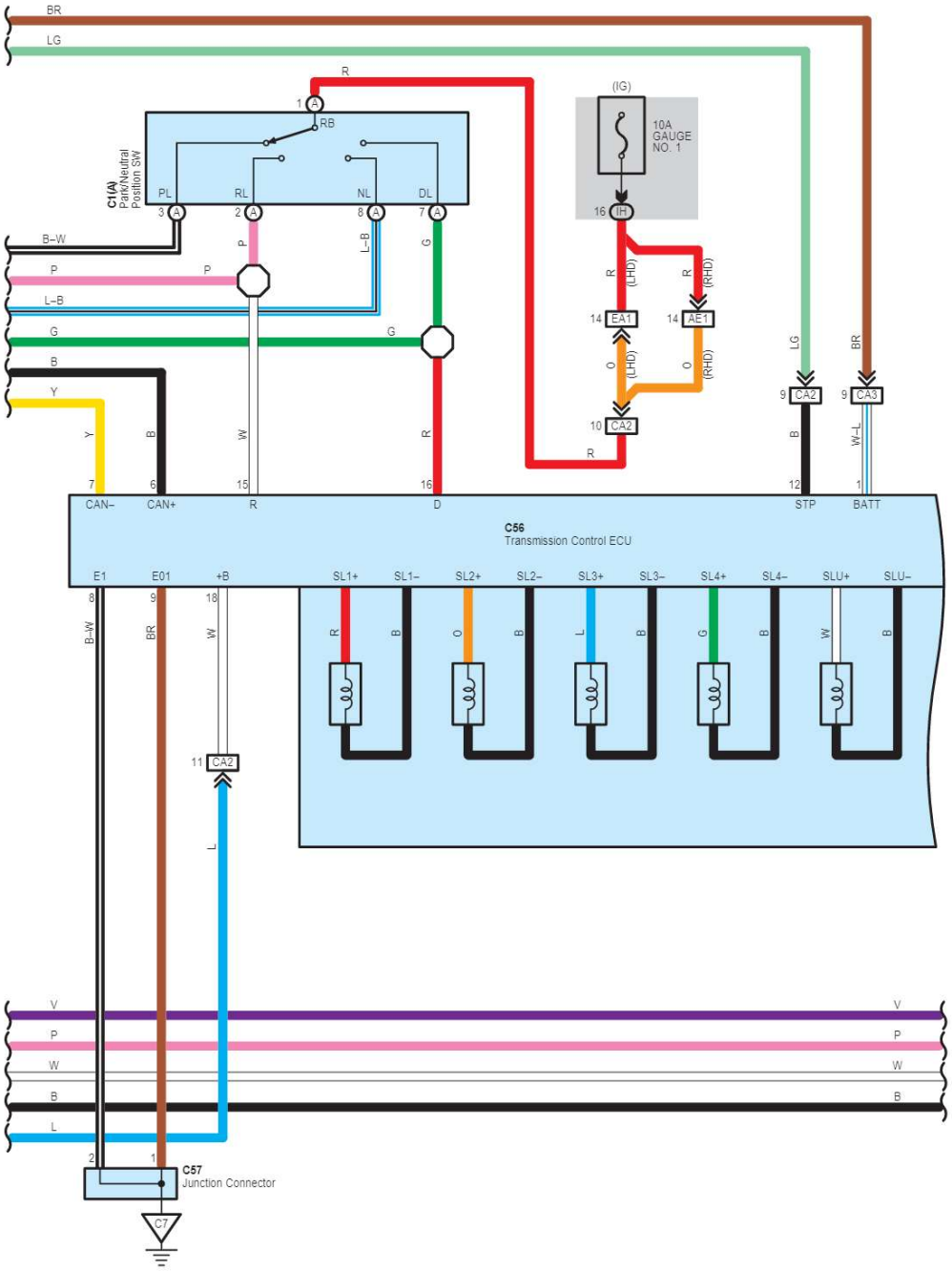


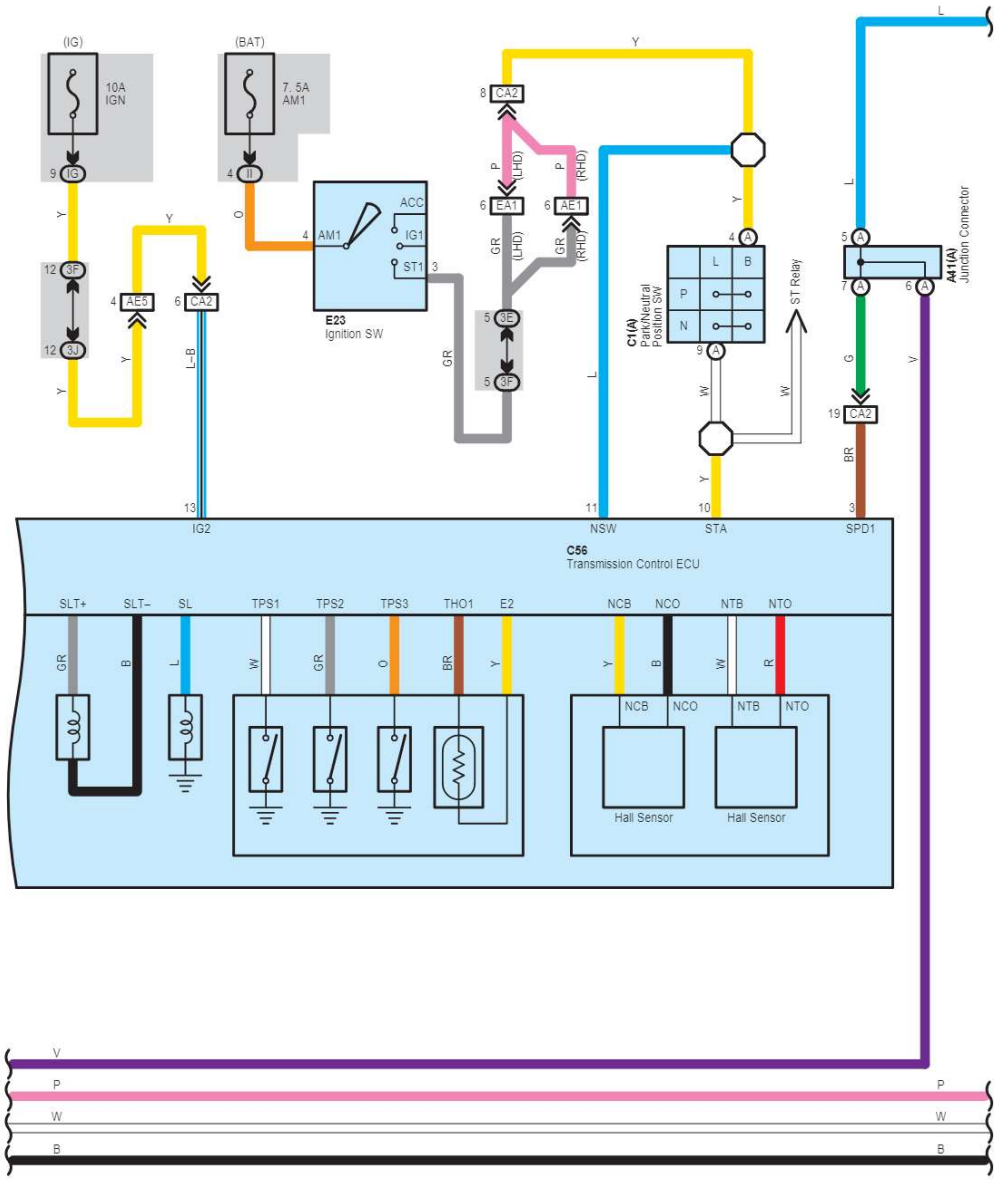

BR
BR
LG
(BAT)
(IG)
10A
STOP
10A
IGN
W–L
R
C2
Air Flow Meter
+B
E2G
VG
THA
E2
W
LG
A41(A), A42(B)
Junction Connector
A19
Stop Lamp SW
A58(A), E40(B)
Junction Connector
L
GR
B
Y
LG
L–B
P
G–R
W
73 72 71 74 36 35 28 (LHD)
73 72 71 74 36 35 28 (RHD)
E2G
VG
THA
ETHA
STP
ST1–
IGSW
A24(A), A55(B), C55(D), C58(E)
Engine ECU
BATT
+B
+B2
MREL
E02
E05
E1
E04
E01
E03
ME01
20 2 1 44 21 46 81 23 22 104 20 (LHD)
20 2 1 44 21 46 81 23 22 104 20 (RHD)
Y
R
R
O
B–W
W
W–B
W
W–B
B
B
L
C57
Junction
Connector
C7
C4

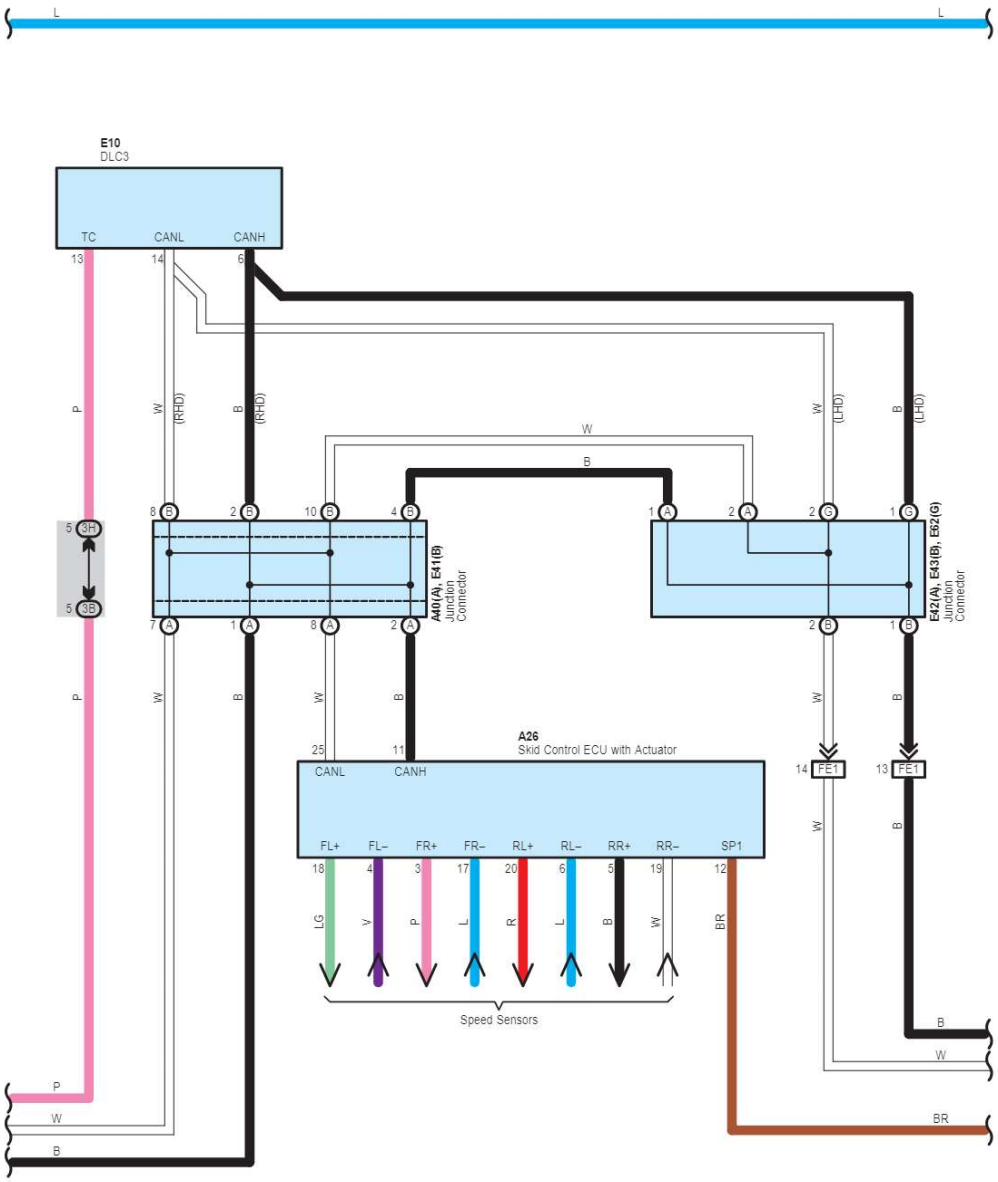
ECT and A/T Indicator (2GR–FE)

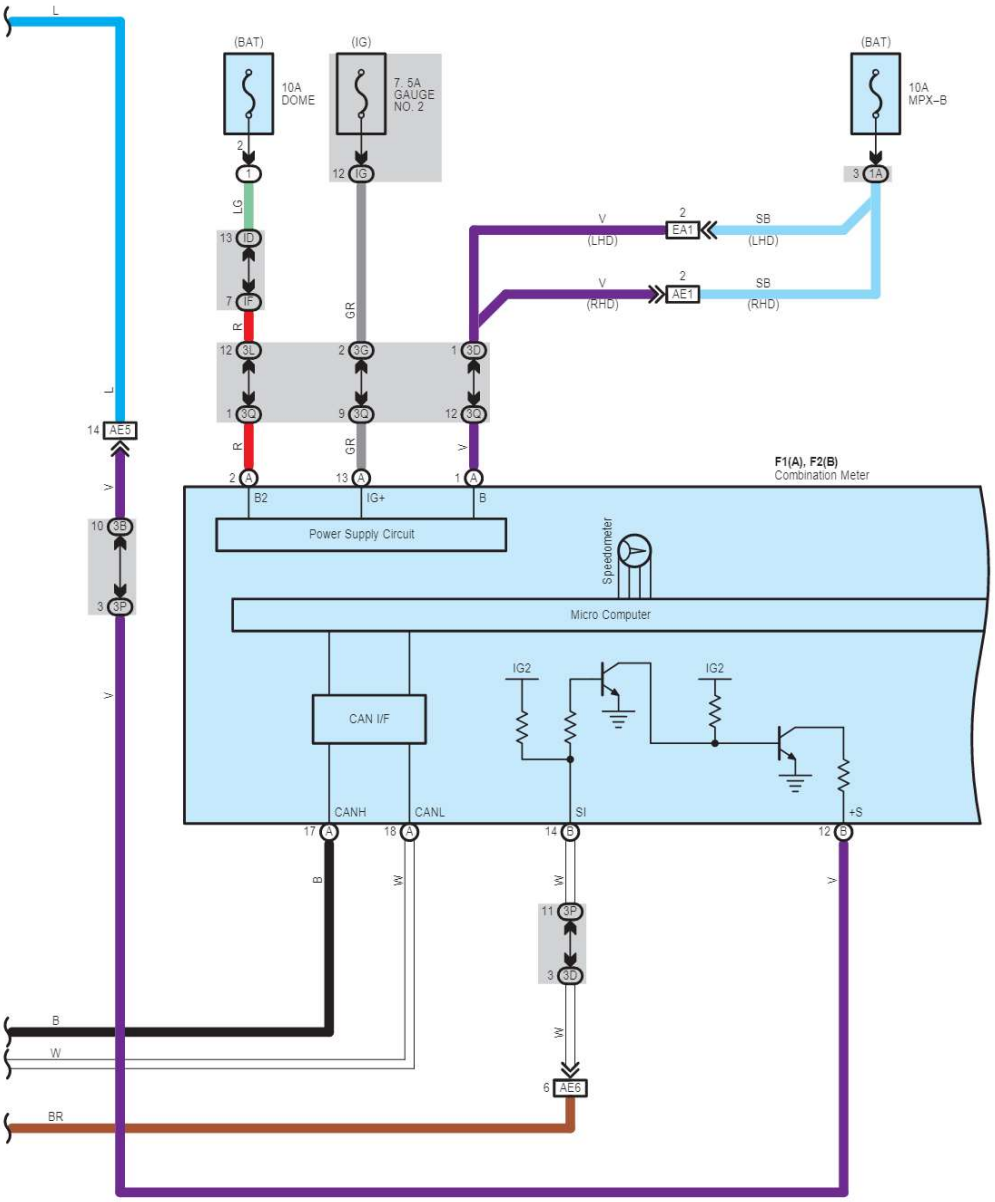


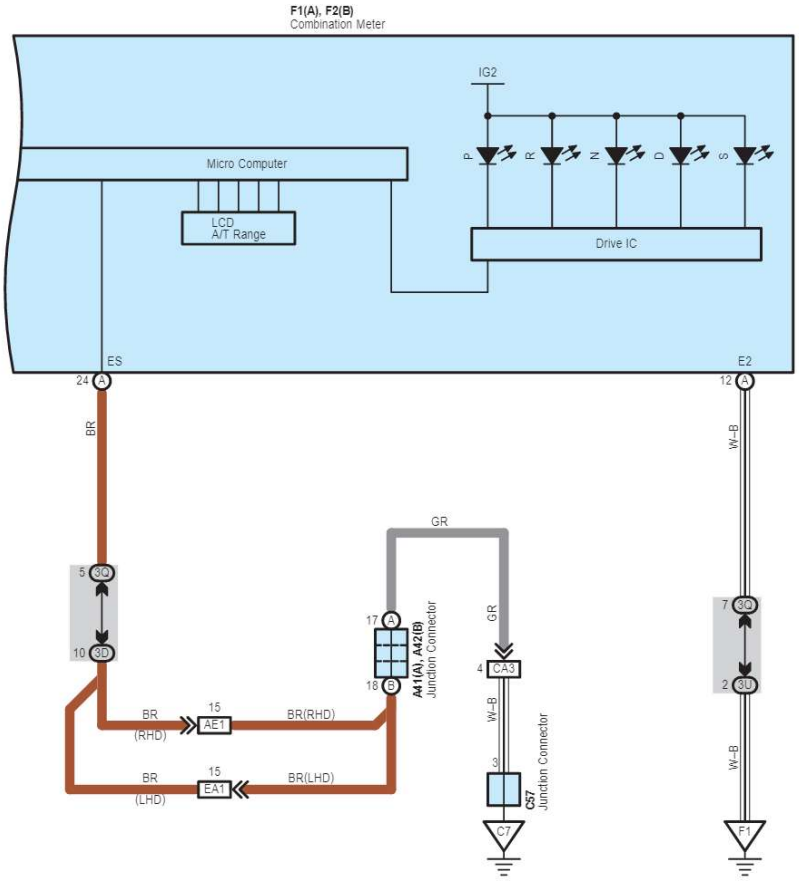

BR
LG
(IG)
7.5A
ECU IG
NO. 2
19 IF
B-W
P
L-B
G
B
Y
24 D 24 E
25 D 25 E
27 D 27 E
26 D 26 E
2 D 2 E
1 D 1 E (LHD) (RHD)
P
R
N
D
CAN+
CAN-
A24(A), A55(B), C55(D), C58(E)
Engine ECU
SFTU
SFTD
S
CANH
CANL
TC
SPD
16 B 16 A
51 B 51 A
25 B 25 A
41 B 41 A
49 B 49 A
27 B 27 A
8 B 8 A (LHD) (RHD)
10 AE5
20 AE5
11 AE5
12 AE5
2
1
7
E
IG
E31
Transmission Control SW
5
3
W-B
O
B
W
P
V
5 3L
5 3C
7 4D
7 4C
L


BR
LG
R
(IG)
10A
GAUGE
NO. 1
C1(A)
Park/Neutral
Position SW
PL
RL
NL
DL
RB
B–W
P
L–B
G
B
Y
W
CAN–
CAN+
R
D
STP
BATT
W–L
EA1
AE1
(LHD)
(RHD)
CA2
CA3
C56
Transmission Control ECU
E1
E01
+B
SL1+
SL1–
SL2+
SL2–
SL3+
SL3–
SL4+
SL4–
SLU+
SLU–
V
L
C57
Junction Connector
C7


(IG)
10A
IGN
(BAT)
7. 5A
AM1
E23
Ignition SW
ACC
IG1
ST1
AM1
C1(A)
Park/Neutral
Position SW
ST Relay
A41(A)
Junction Connector
C56
Transmission Control ECU
IG2
NSW
STA
SPD1
SLT+
SLT−
SL
TPS1
TPS2
TPS3
THO1
E2
NCB
NCO
NTB
NTO
Hall Sensor
Hall Sensor


L
L
E10
DLC3
TC
CANL
CANH
13
14
6
P
W (RHD)
B (RHD)
W (LHD)
B (LHD)
W
B
5 3H
5 3B
8 B
2 B
10 B
4 B
1 A
2 A
2 G
1 G
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E62(G)
Junction Connector
7 A
1 A
8 A
2 A
2 B
1 B
A26
Skid Control ECU with Actuator
25
11
CANL
CANH
14 FE1
13 FE1
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
18
4
3
17
20
6
5
19
12
LG
V
P
L
R
L
B
W
BR
Speed Sensors
P
W
B
BR


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
2
1
12 IG
3 1A
LG
13 ID
7 IF
V
(LHD)
2
EA1
SB
(LHD)
V
(RHD)
2
AE1
SB
(RHD)
GR
R
12 3L
2 3G
1 3D
1 3Q
9 3Q
12 3Q
L
14 AE5
R
GR
V
2 A
13 A
1 A
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Micro Computer
V
10 3B
3 3P
IG2
IG2
CAN I/F
CANH
CANL
SI
+S
17 A
18 A
14 B
12 B
B
W
W
V
11 3P
3 3D
W
6 AE6
B
W
BR


F1(A), F2(B)
Combination Meter
IG2
P
R
N
D
S
Micro Computer
LCD
A/T Range
Drive IC
ES
E2
24
12
BR
W–B
GR
5
3Q
10
3D
17
A
18
B
A41(A), A42(B)
Junction Connector
GR
4
CA3
W–B
3
C57
Junction Connector
C7
7
3Q
2
3U
W–B
F1
BR
(RHD)
15
AE1
BR(RHD)
BR
(LHD)
15
EA1
BR(LHD)

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 ECU 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	57 (LHD)	C1 A	63 (*3)	E31	56 (LHD)
	67 (RHD)	C2	53 (*1)		66 (RHD)
A19	57 (LHD)		63 (*3)	E40 B	56 (LHD)
	67 (RHD)	C4	53 (*1)		66 (RHD)
A24 A	62 (*3)		63 (*3)	E41 B	56 (LHD)
A26	52 (*1)	C5	53 (*1)		66 (RHD)
	62 (*3)		63 (*3)	E42 A	48, 56 (LHD)
A40 A	57 (LHD)	C55 D	53 (*1)		48, 66 (RHD)
	67 (RHD)	C56	53 (*1)	E43 B	48, 56 (LHD)
A41 A	57 (LHD)		63 (*3)		48, 66 (RHD)
	67 (RHD)	C57	53 (*1)	E62 G	48, 56 (LHD)
A42 B	57 (LHD)		63 (*3)	F1 A	57 (LHD)
	67 (RHD)	C58 E	63 (*3)		67 (RHD)
A55 B	52 (*1)	E10	56 (LHD)	F2 B	57 (LHD)
A58 A	57 (LHD)		66 (RHD)		67 (RHD)
	67 (RHD)	E23	56 (LHD)		
C1 A	53 (*1)		66 (RHD)		

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3E		
3F		
3G		
3H		
3J		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

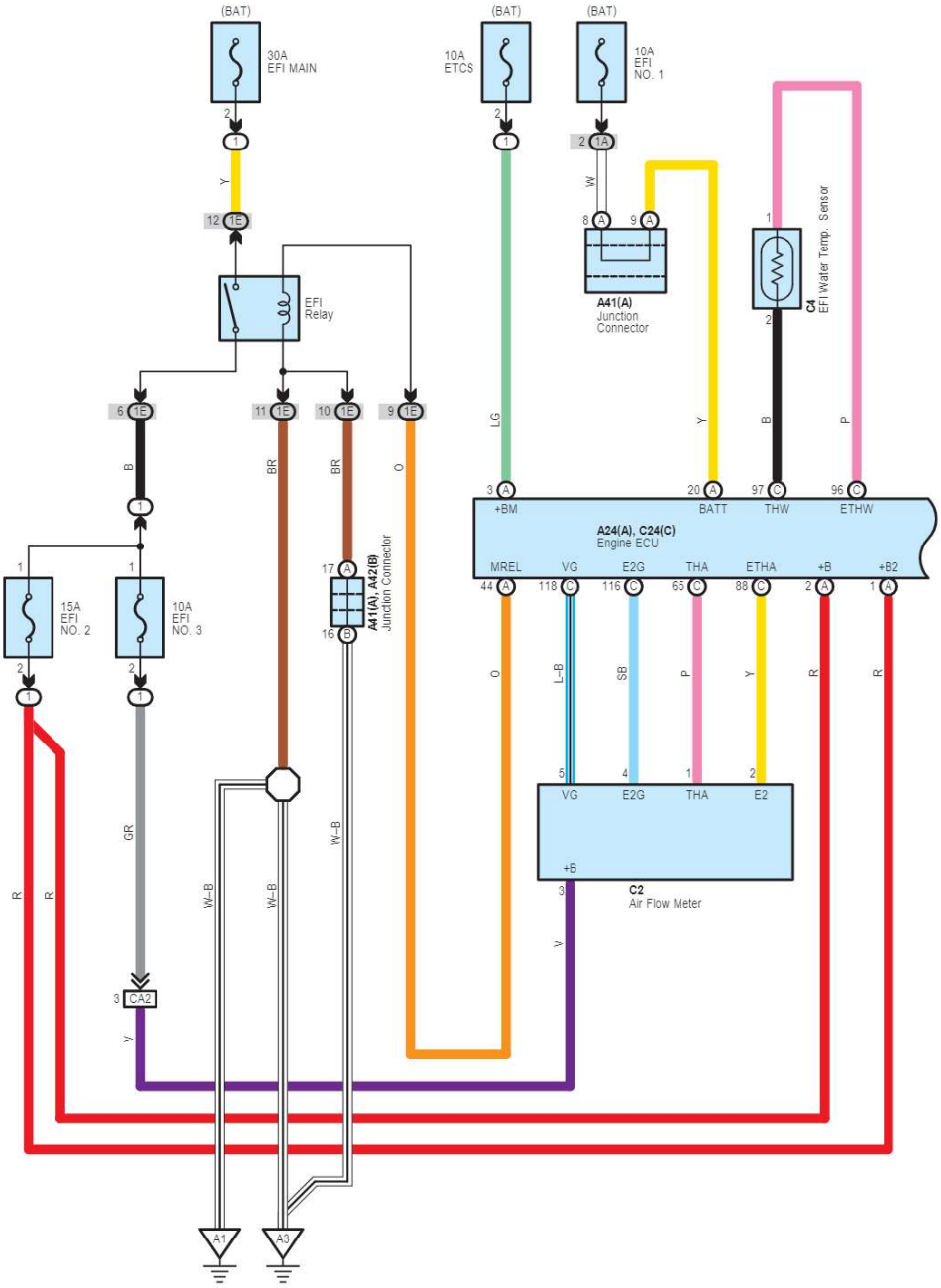
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	78 (*3)	
CA3	72 (*1)	
	78 (*3)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

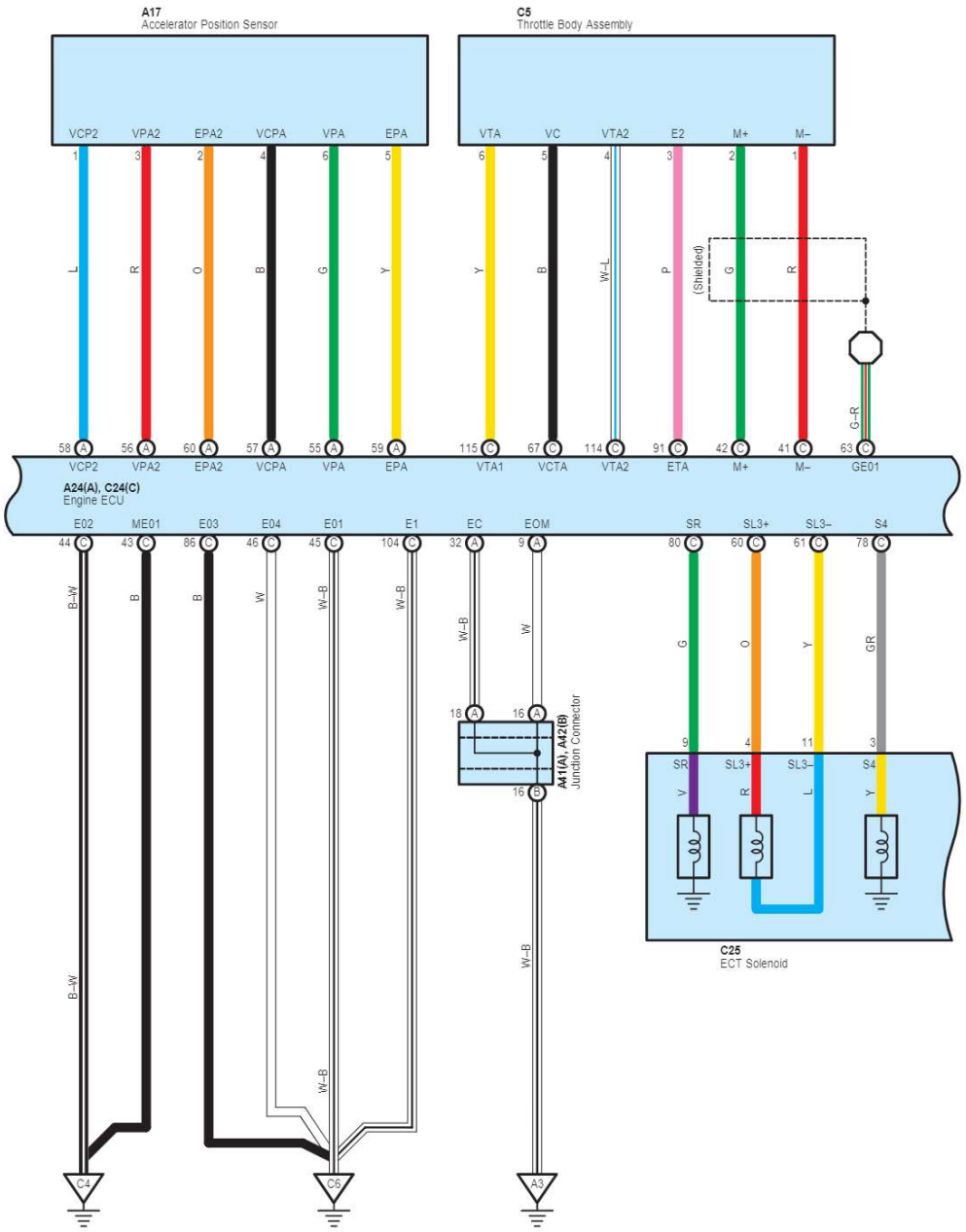
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

▽ : **Ground Points**

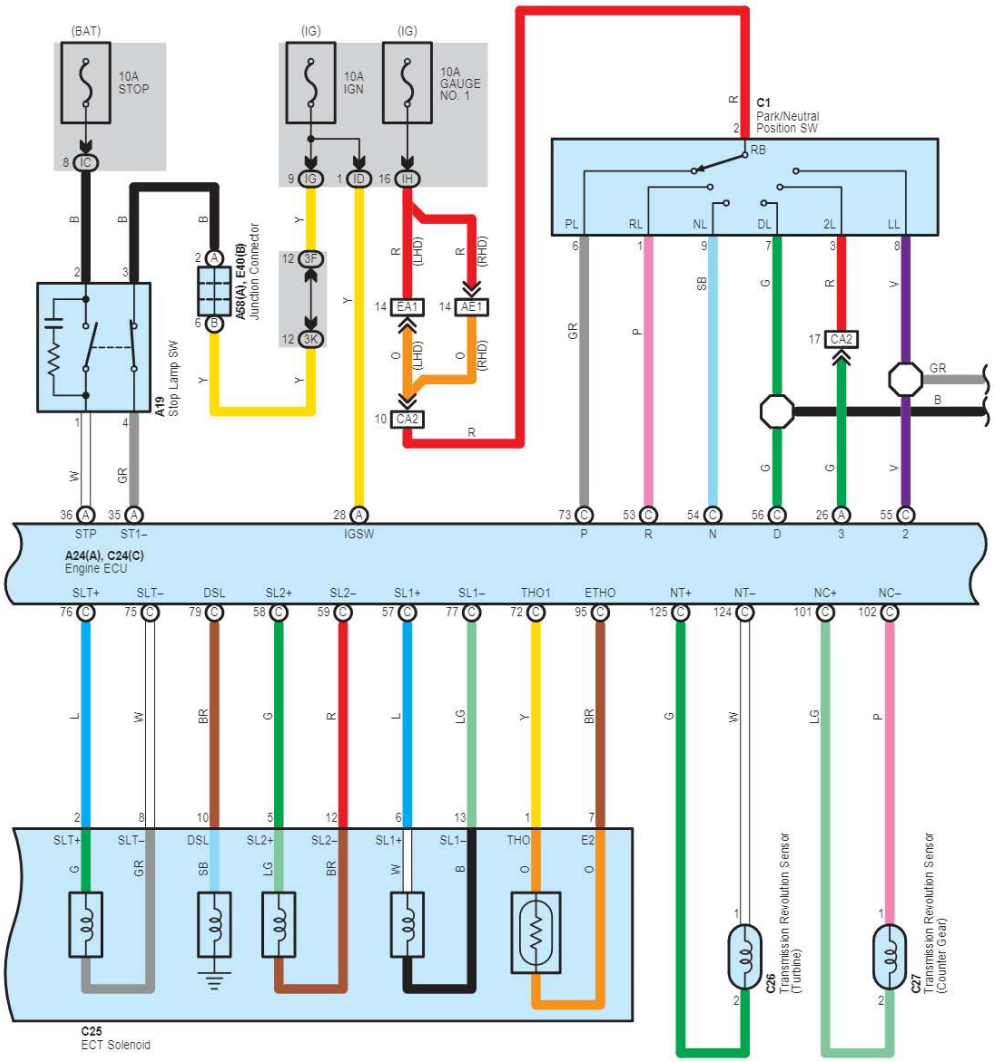
Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	78 (*3)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	72 (*1)	Cylinder Head
	78 (*3)	Front Left Side of the Cylinder Block
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

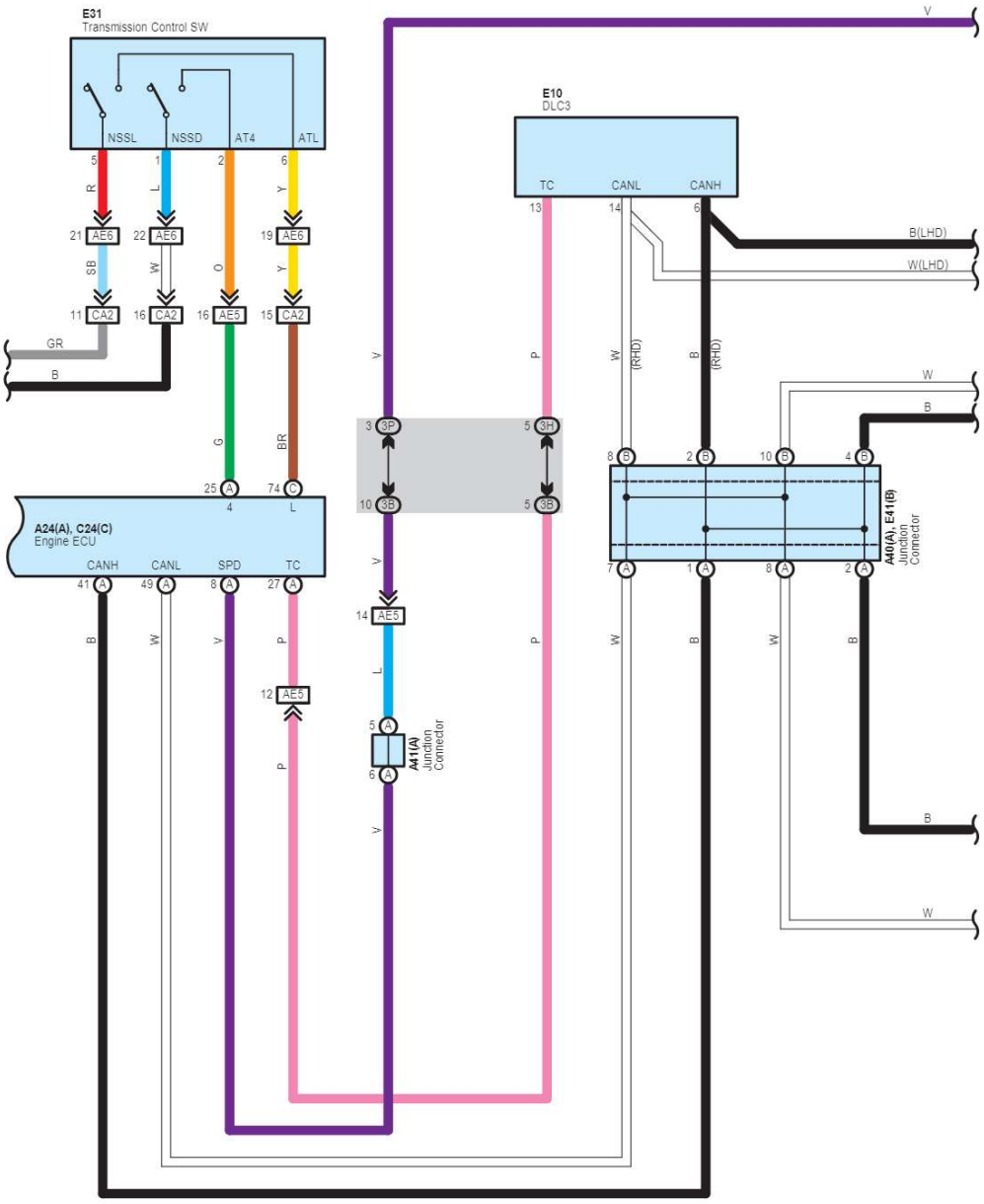
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

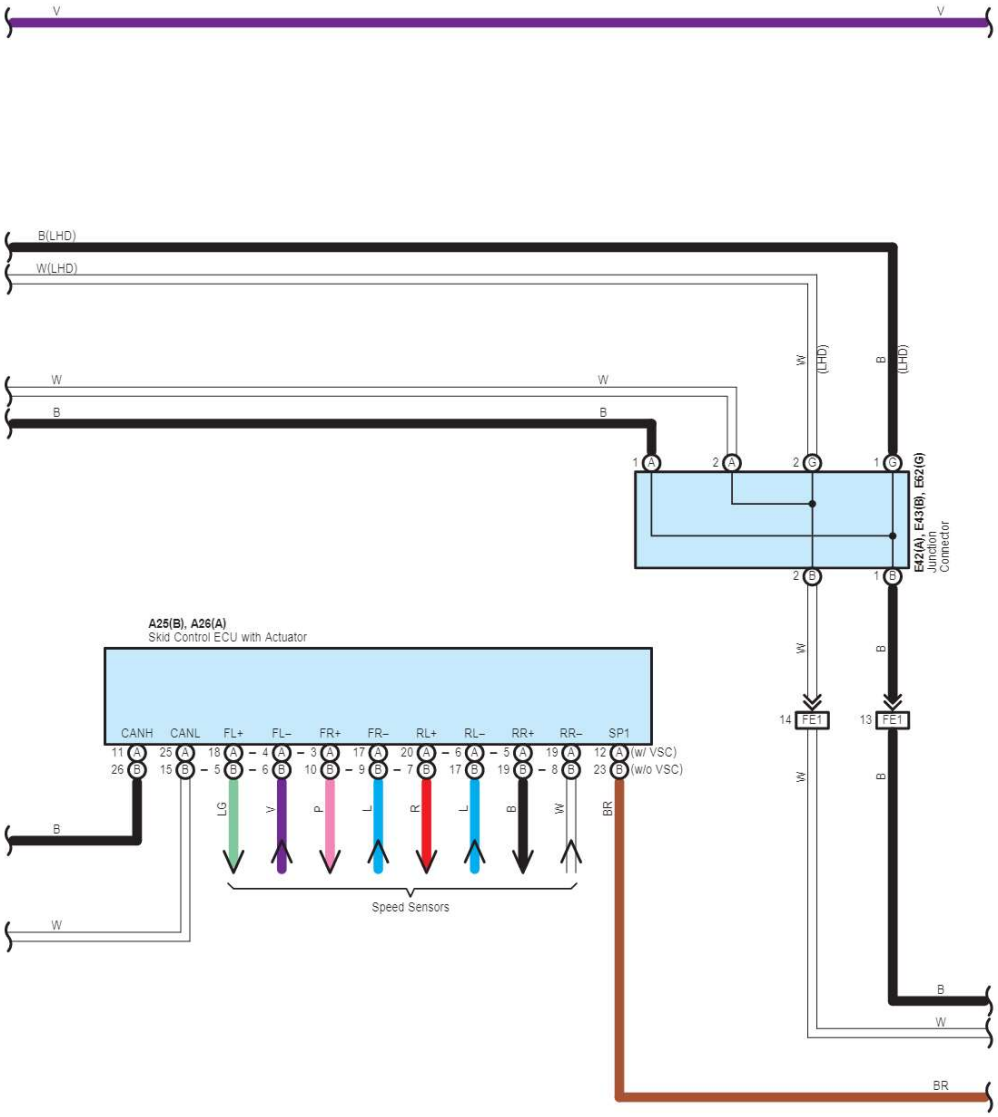

(BAT)
30A
EFI MAIN
10A
ETCS
10A
EFI
NO. 1
EFI
Relay
A41(A)
Junction
Connector
C4
EFI Water Temp. Sensor
15A
EFI
NO. 2
10A
EFI
NO. 3
A41(A), A42(B)
Junction Connector
A24(A), C24(C)
Engine ECU
+BM
BATT
THW
ETHW
MREL
VG
E2G
THA
ETHA
+B
+B2
C2
Air Flow Meter
E2
CA2
A1
A3

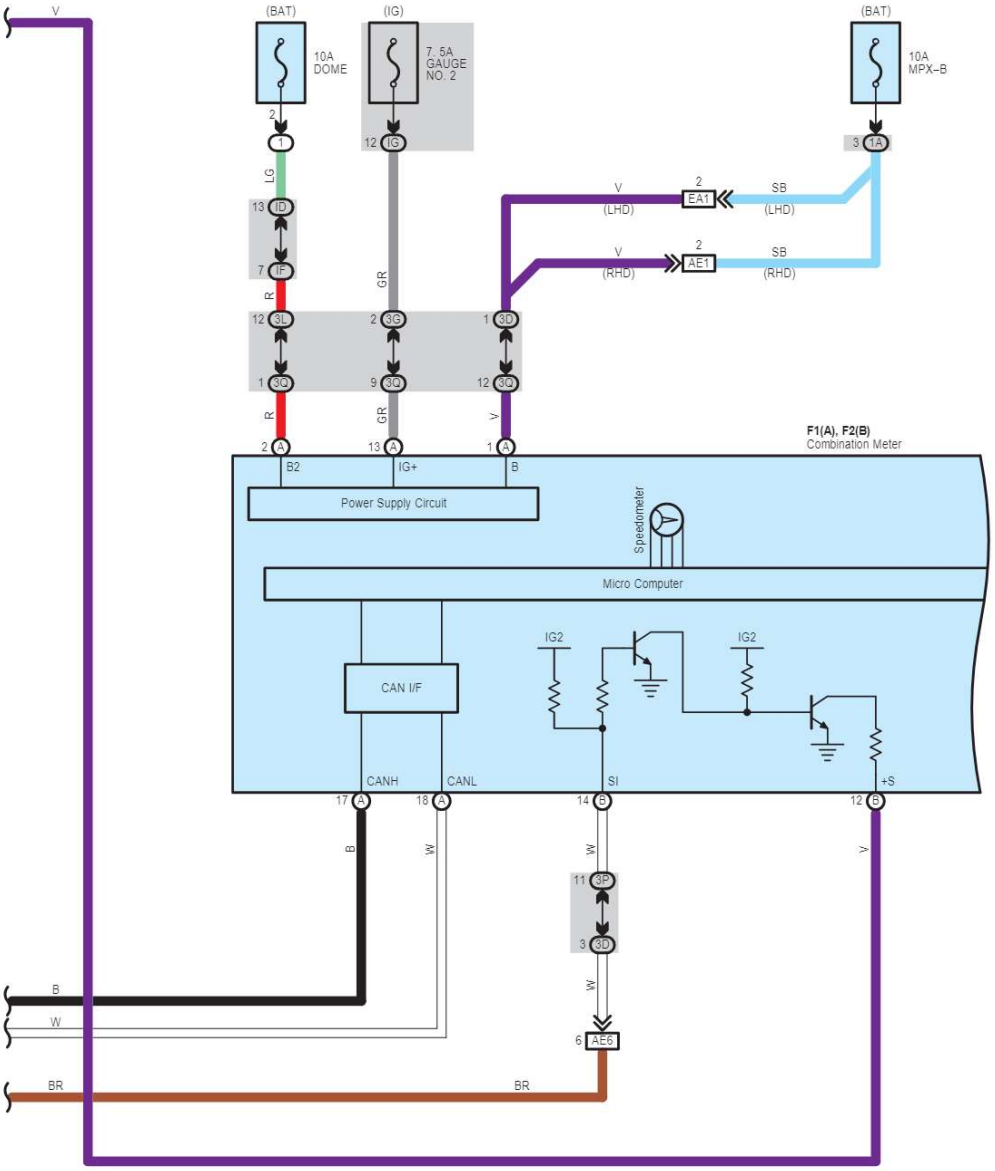

A17
Accelerator Position Sensor
C5
Throttle Body Assembly
VCP2
VPA2
EPA2
VCPA
VPA
EPA
VTA
VC
VTA2
E2
M+
M–
(Shielded)
G–R
A24(A), C24(C)
Engine ECU
VTA1
VCTA
ETA
GE01
E02
ME01
E03
E04
E01
E1
EC
EOM
SR
SL3+
SL3–
S4
A41(A), A42(B)
Junction Connector
C25
ECT Solenoid
C4
C6
A3

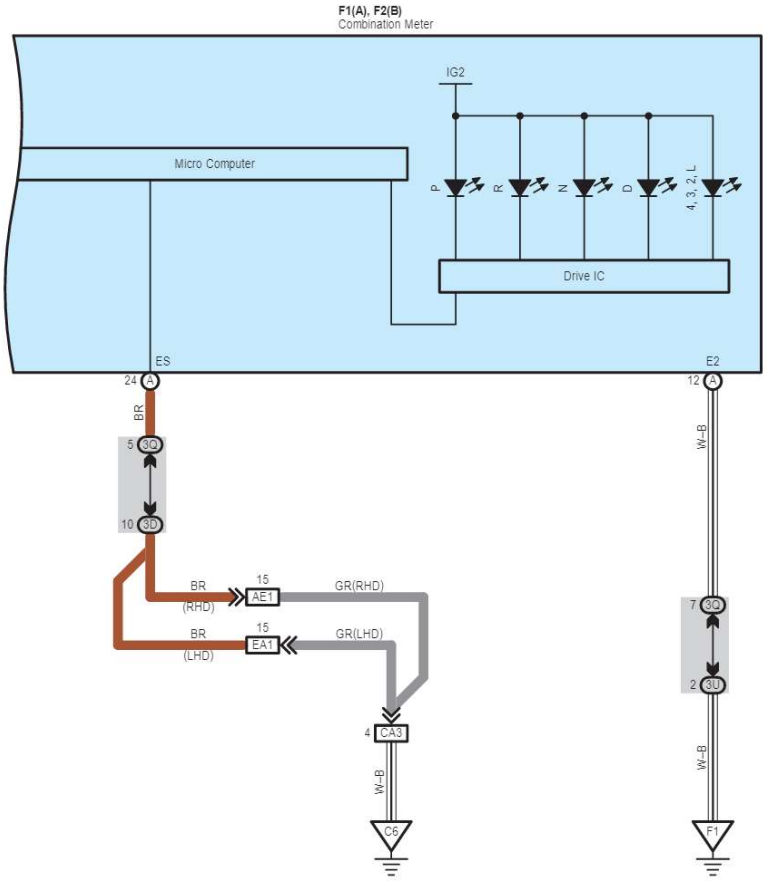
ECT and A/T Indicator (2AZ–FE)




E31
Transmission Control SW
NSSL
NSSD
AT4
ATL
E10
DLC3
TC
CANL
CANH
B(LHD)
W(LHD)
(RHD)
A24(A), C24(C)
Engine ECU
CANH
CANL
SPD
TC
A40(A), E41(B)
Junction Connector
A41(A)
Junction Connector
GR


V
V
B(LHD)
W(LHD)
W
W
B
B
W (LHD)
B (LHD)
1 A
2 A
2 G
1 G
E42(A), E43(B), E52(G)
Junction Connector
2 B
1 B
A25(B), A26(A)
Skid Control ECU with Actuator
CANH CANL FL+ FL– FR+ FR– RL+ RL– RR+ RR– SP1
11 A 25 A 18 A – 4 A – 3 A 17 A 20 A – 6 A – 5 A 19 A 12 A (w/ VSC)
26 B 15 B – 5 B – 6 B 10 B – 9 B – 7 B 17 B 19 B – 8 B 23 B (w/o VSC)
LG V P L R L B W BR
Speed Sensors
14 FE1
13 FE1
W
B
B
W
B
W
BR


V
(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
LG
GR
V
(LHD)
SB
(LHD)
V
(RHD)
SB
(RHD)
EA1
AE1
R
GR
V
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Micro Computer
IG2
IG2
CAN I/F
CANH
CANL
SI
+S
B
W
W
V
B
W
BR
BR
AE6


F1(A), F2(B)
Combination Meter
IG2
Micro Computer
P
R
N
D
4, 3, 2, L
Drive IC
ES
E2
24
A
12
A
BR
W–B
5
3Q
10
3D
7
3Q
2
3U
BR
(RHD)
15
AE1
GR(RHD)
BR
(LHD)
15
EA1
GR(LHD)
4
CA3
W–B
C6
F1

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 ECU 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.

O : Parts Location

Code		See Page
A17		57 (LHD)
		67 (RHD)
A19		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	54 (*2)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A58	A	57 (LHD)

Code		See Page
A58	A	67 (RHD)
C1		55 (*2)
		65 (*4)
C2		55 (*2)
		65 (*4)
C4		55 (*2)
		65 (*4)
C5		55 (*2)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C25		55 (*2)
		65 (*4)
C26		55 (*2)
		65 (*4)
C27		55 (*2)
		65 (*4)

Code		See Page
E10		56 (LHD)
		66 (RHD)
E31		56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E62	G	48, 56 (LHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

ECT and A/T Indicator (2AZ–FE)

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3B	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3F		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

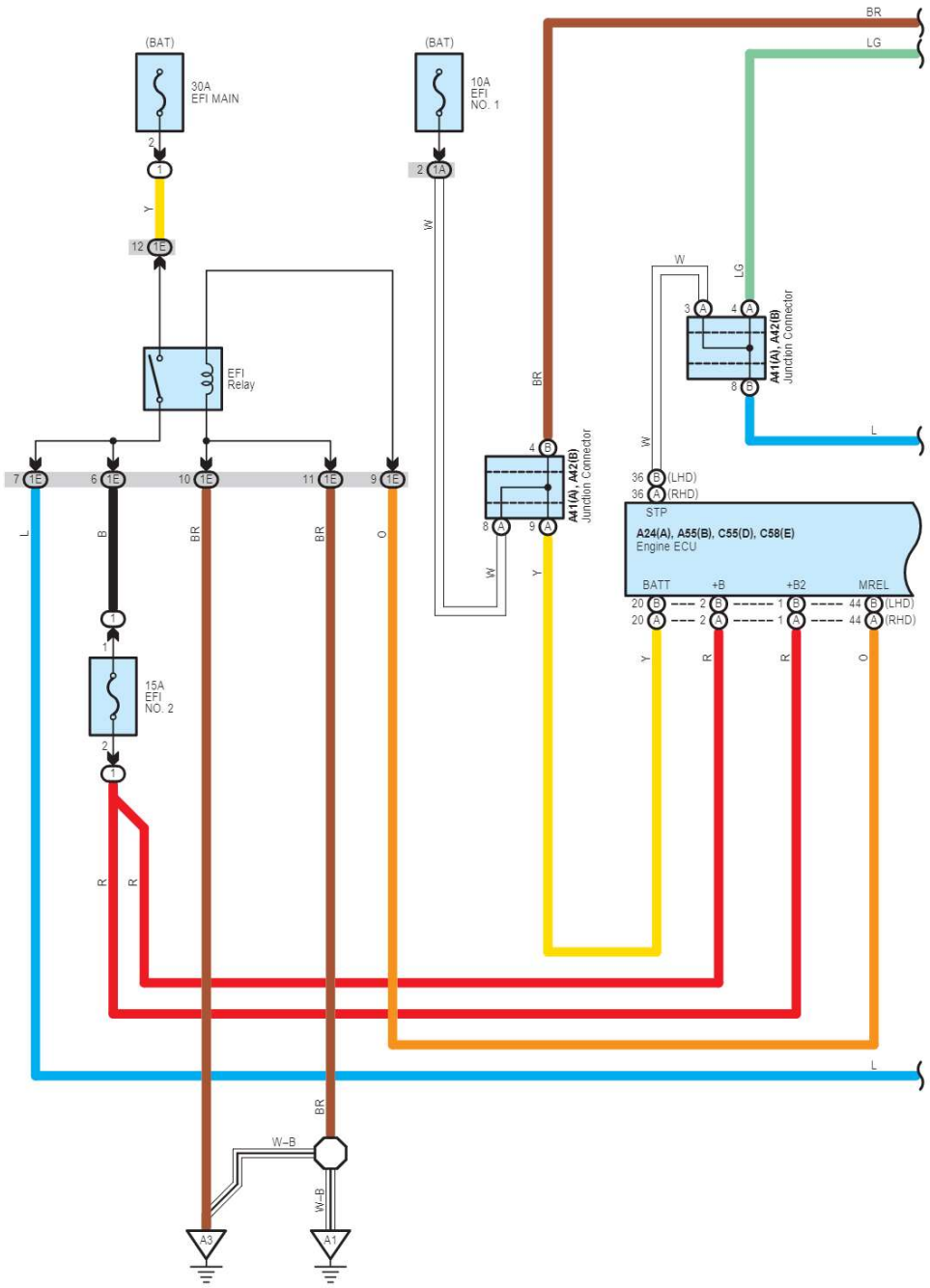
: **Connector Joining Wire Harness and Wire Harness**

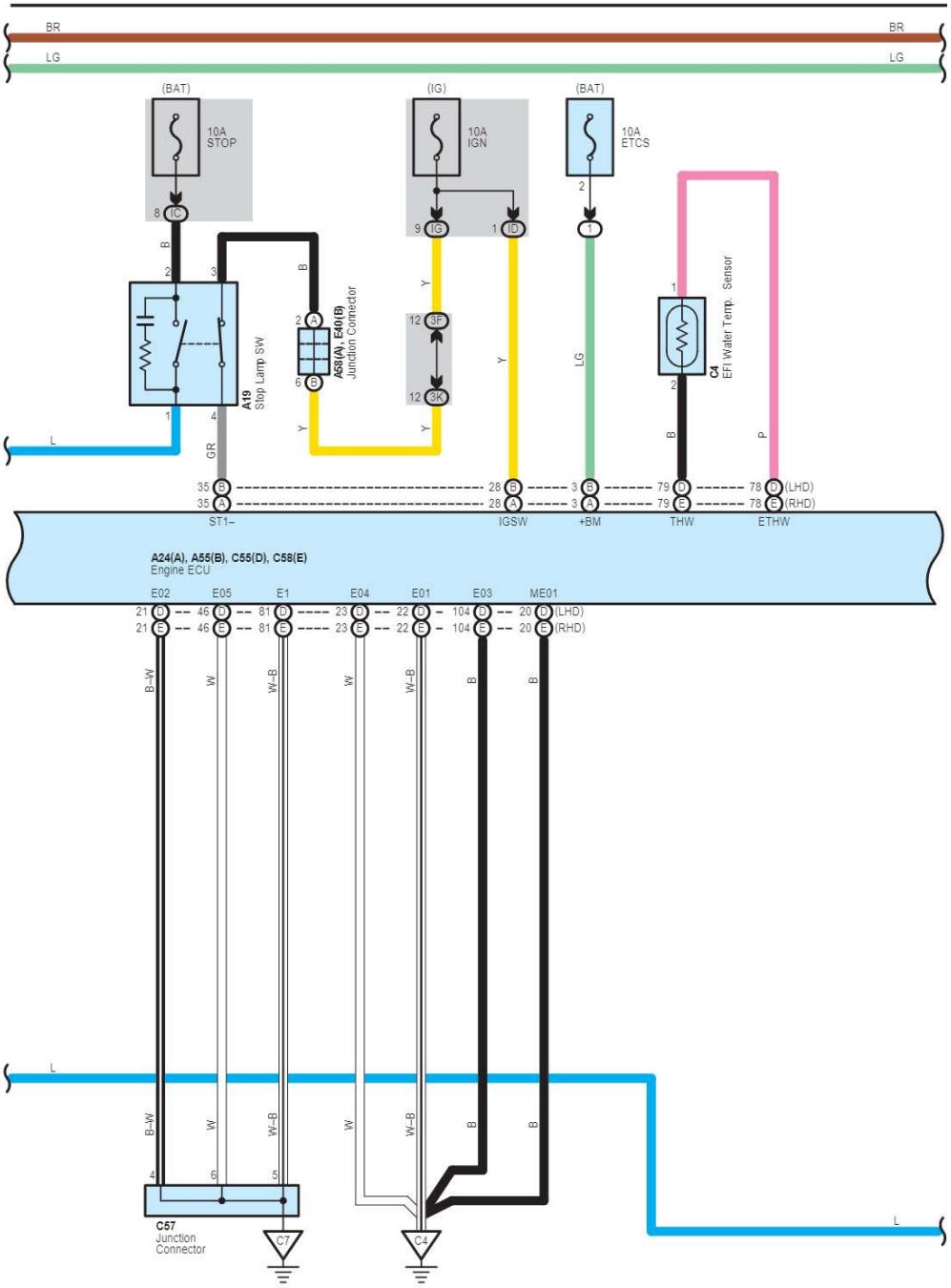
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
CA3	73 (*2)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

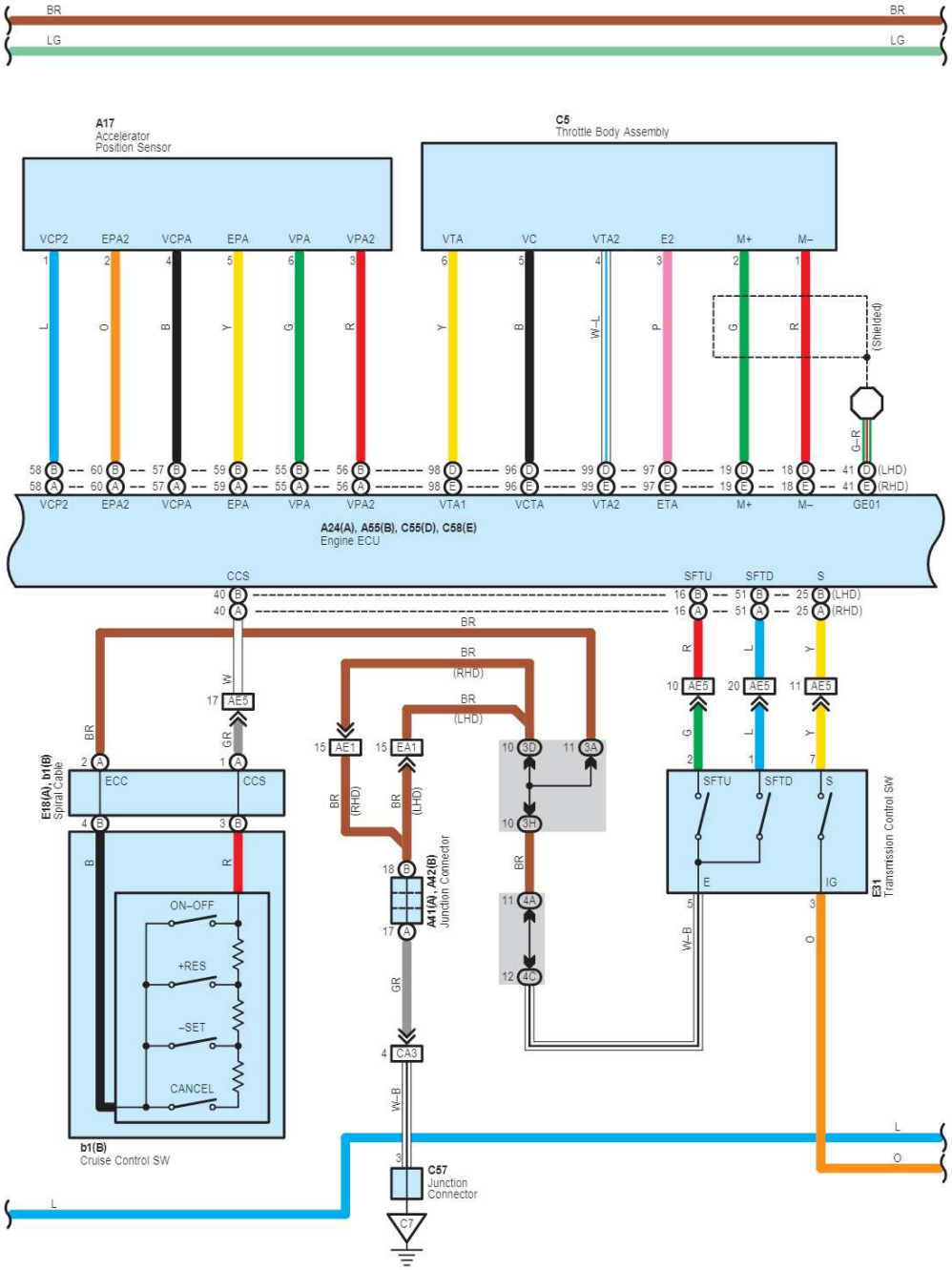
: **Ground Points**

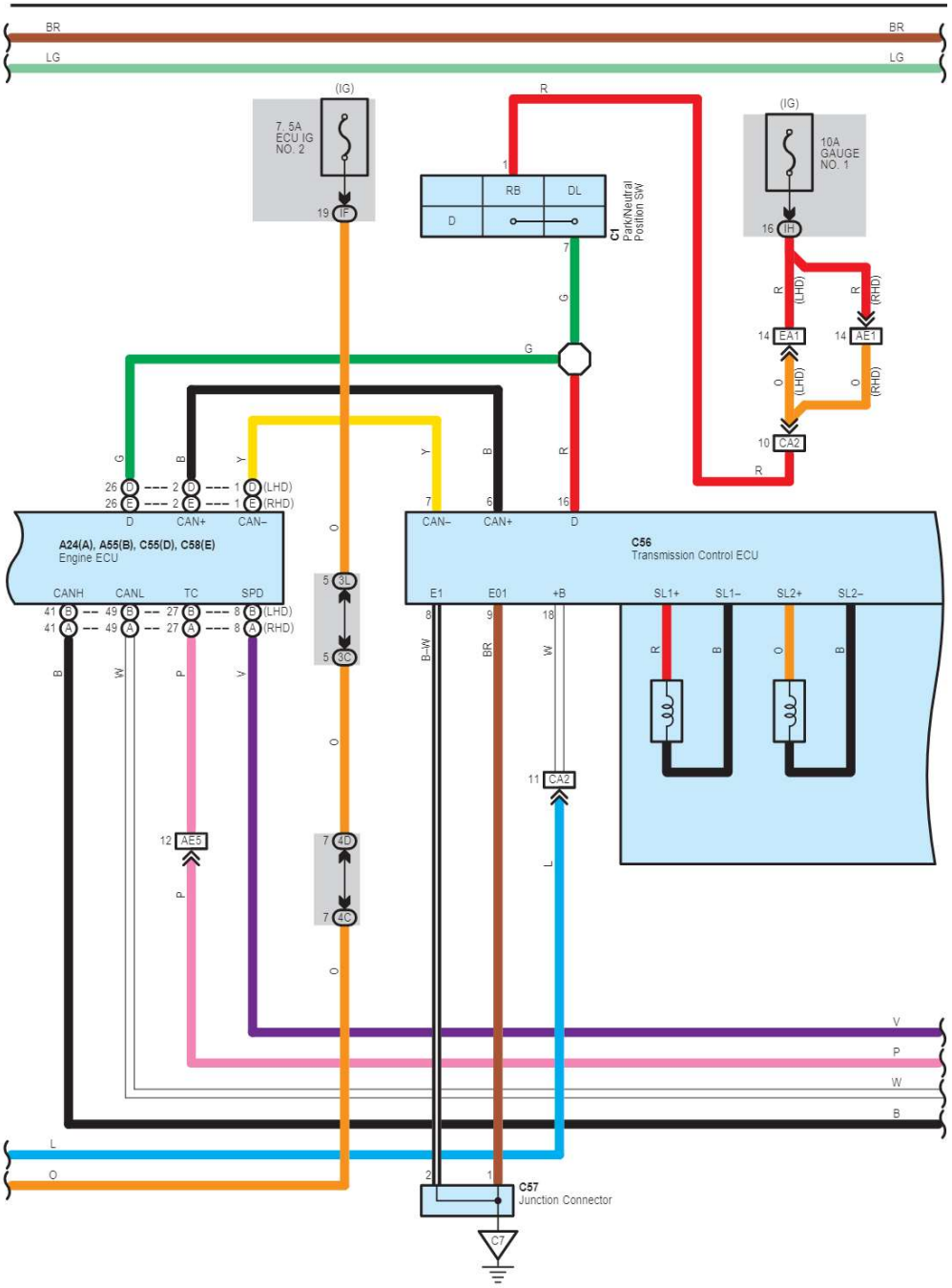
Code	See Page	Ground Points Location
A1	73 (*2)	Front Left Fender
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C6	73 (*2)	
	79 (*4)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

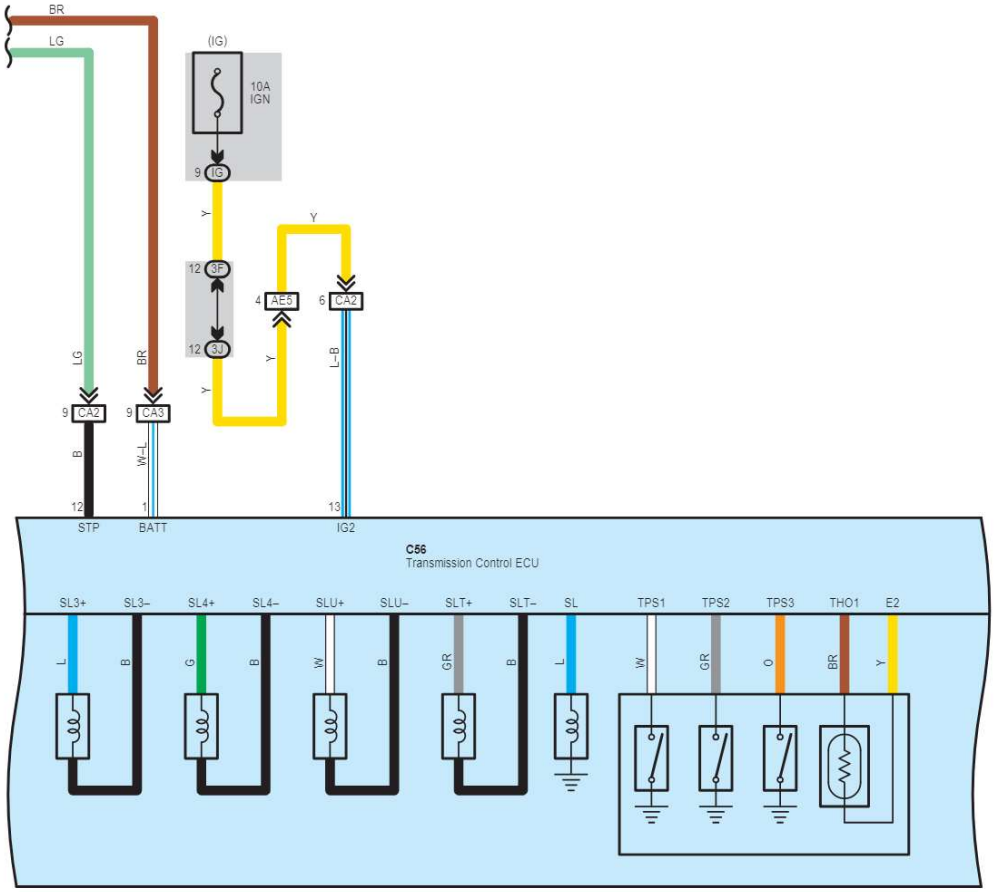
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
30A
EFI MAIN
(BAT)
10A
EFI
NO. 1
EFI
Relay
15A
EFI
NO. 2
A41(A), A42(B)
Junction Connector
A41(A), A42(B)
Junction Connector
STP
A24(A), A55(B), C55(D), C58(E)
Engine ECU
BATT
+B
+B2
MREL
(LHD)
(RHD)
W–B
W–B
A3
A1

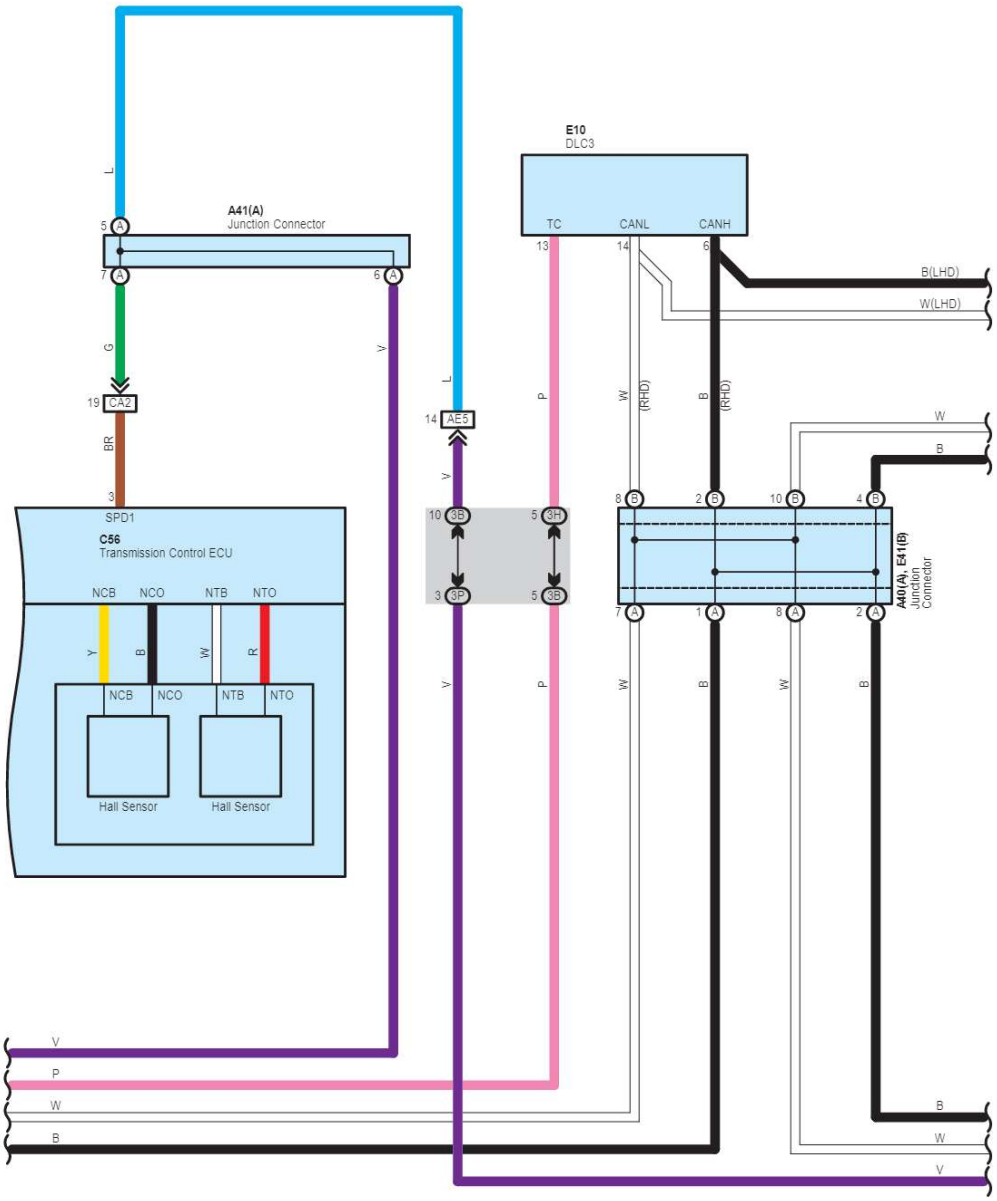

BR
LG
(BAT)
10A
STOP
(IG)
10A
IGN
(BAT)
10A
ETCS
A19
Stop Lamp SW
A58(A), E40(B)
Junction Connector
C4
EFI Water Temp. Sensor
ST1–
IGSW
+BM
THW
ETHW
(LHD)
(RHD)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
E02
E05
E1
E04
E01
E03
ME01
C57
Junction
Connector
C7
C4

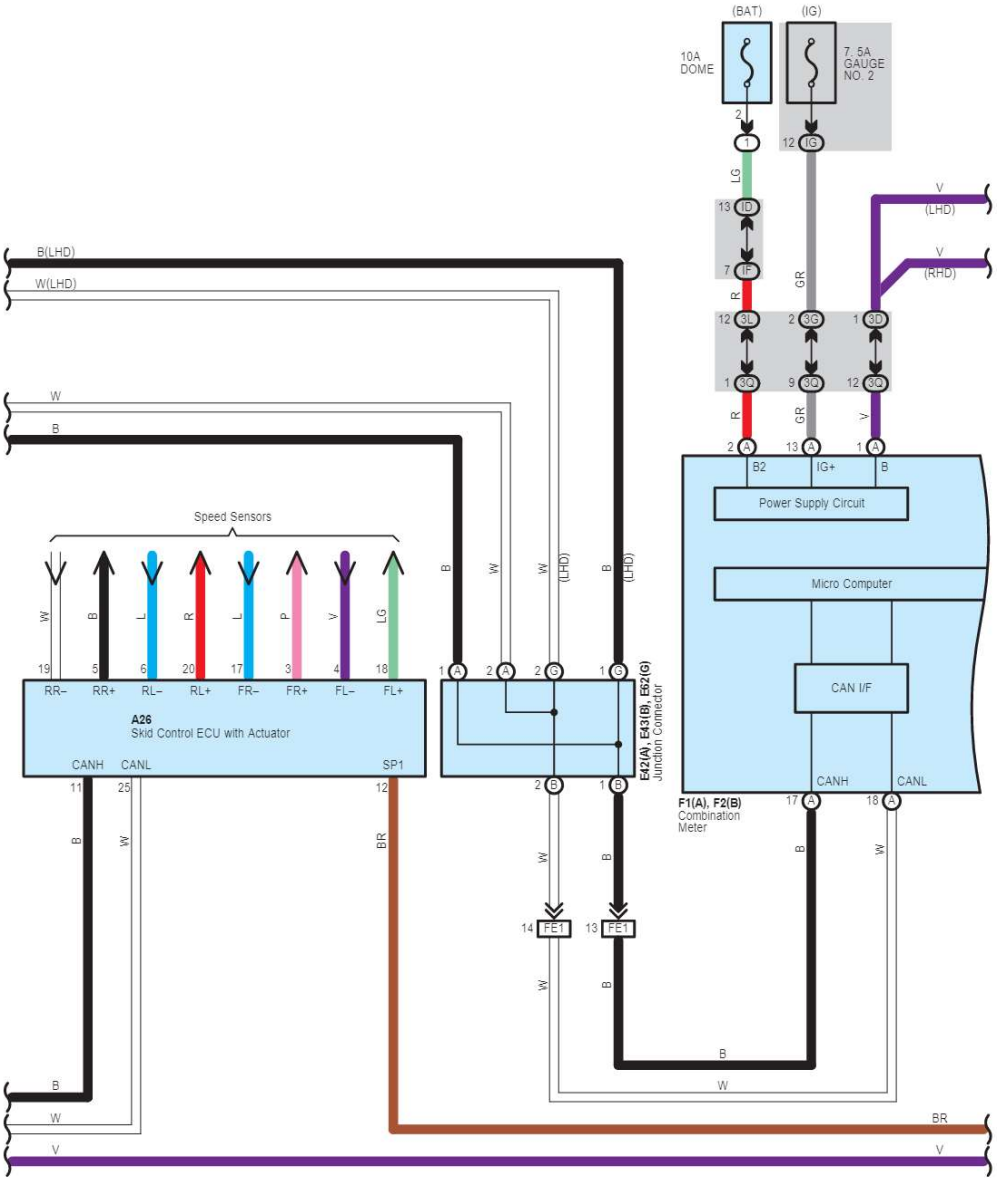

BR
LG
BR
LG
A17
Accelerator
Position Sensor
VCP2
EPA2
VCPA
EPA
VPA
VPA2
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
(Shielded)
G–R
(LHD)
(RHD)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
VTA1
VCTA
ETA
GE01
CCS
SFTU
SFTD
S
AE5
AE1
EA1
3D
3A
3H
4A
4C
CA3
ECC
E18(A), b1(B)
Spiral Cable
ON–OFF
+RES
–SET
CANCEL
b1(B)
Cruise Control SW
A41(A), A42(B)
Junction Connector
E31
Transmission Control SW
C57
Junction
Connector
C7

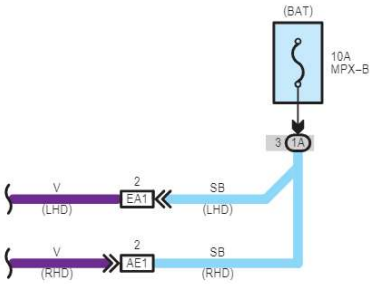

BR
LG
(IG)
7.5A
ECU IG
NO. 2
19 IF
R
1
RB
DL
D
C1
Park/Neutral
Position SW
7
G
(IG)
10A
GAUGE
NO. 1
16 IH
R (LHD)
R (RHD)
14 EA1
14 AE1
O (LHD)
O (RHD)
10 CA2
R
G
B
Y
26 D --- 2 D --- 1 D (LHD)
26 E --- 2 E --- 1 E (RHD)
D
CAN+
CAN–
A24(A), A55(B), C55(D), C58(E)
Engine ECU
CANH
CANL
TC
SPD
41 B -- 49 B -- 27 B --- 8 B (LHD)
41 A -- 49 A -- 27 A --- 8 A (RHD)
C56
Transmission Control ECU
E1
E01
+B
SL1+
SL1–
SL2+
SL2–
5 3L
5 3C
7 4D
7 4C
12 AE5
11 CA2
B–W
BR
W
L
O
P
V
B
C57
Junction Connector
C7

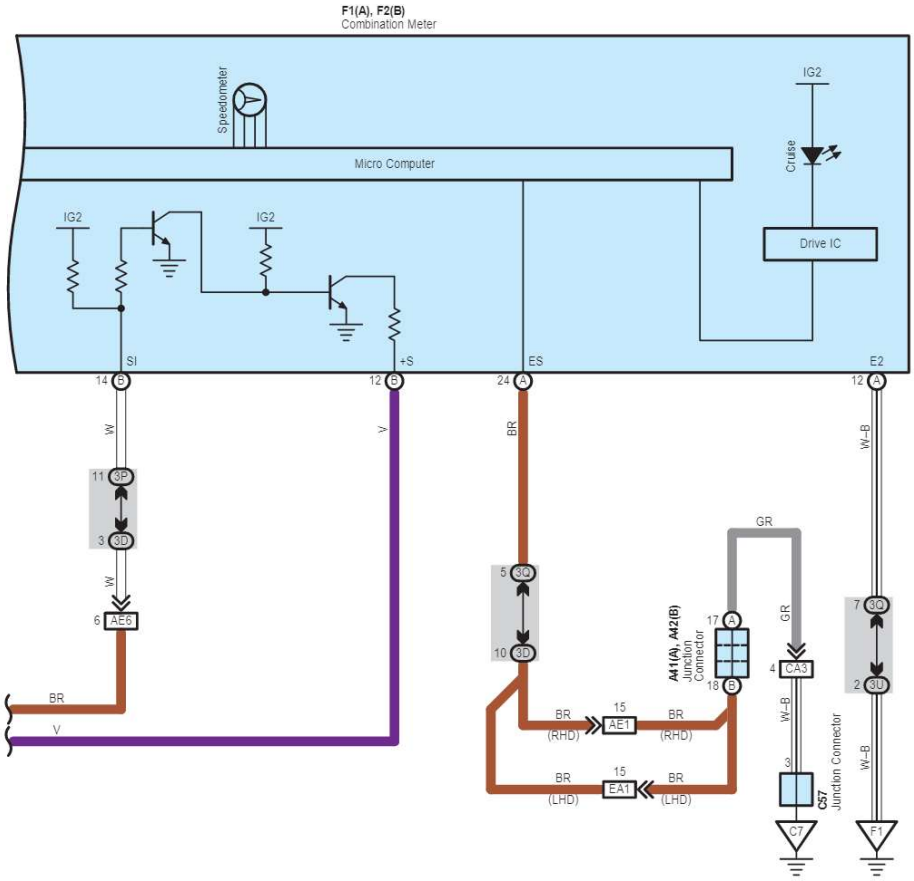

BR
LG
(IG)
10A
IGN
9 IG
Y
Y
12 3F
12 3J
4 AE5
6 CA2
LG
BR
Y
L–B
9 CA2
9 CA3
B
W–L
12
1
13
STP
BATT
IG2
C56
Transmission Control ECU
SL3+
SL3–
SL4+
SL4–
SLU+
SLU–
SLT+
SLT–
SL
TPS1
TPS2
TPS3
THO1
E2
L
B
G
B
W
B
GR
B
L
W
GR
O
BR
Y


V
V
P
P
W
W
B
B


E10
DLC3
TC
CANL
CANH
A41(A)
Junction Connector
B(LHD)
W(LHD)
(RHD)
(RHD)
CA2
AE5
SPD1
C56
Transmission Control ECU
NCB
NCO
NTB
NTO
Hall Sensor
Hall Sensor
A40(A), E41(B)
Junction Connector


(BAT)
(IG)
10A
DOME
7. 5A
GAUGE
NO. 2
B(LHD)
W(LHD)
W
B
Speed Sensors
RR–
RR+
RL–
RL+
FR–
FR+
FL–
FL+
A26
Skid Control ECU with Actuator
CANH
CANL
SP1
E42(A), E43(B), E52(G)
Junction Connector
Power Supply Circuit
Micro Computer
CAN I/F
B2
IG+
F1(A), F2(B)
Combination
Meter
FE1
V
(LHD)
V
(RHD)
LG
GR
R
BR


(BAT)
10A
MPX–B
3
1A
V
(LHD)
2
EA1
SB
(LHD)
V
(RHD)
2
AE1
SB
(RHD)


F1(A), F2(B)
Combination Meter
Speedometer
Micro Computer
IG2
Cruise
Drive IC
IG2
IG2
SI
+S
ES
E2
14
12
24
12
W
Y
BR
W–B
11
3P
3
3D
W
6
AE6
BR
V
5
3Q
10
3D
GR
A41(A), A42(B)
Junction
Connector
17
A
18
B
GR
4
CA3
W–B
3
C57
Junction Connector
7
3Q
2
3U
W–B
BR
(RHD)
15
AE1
BR
(RHD)
BR
(LHD)
15
EA1
BR
(LHD)
C7
F1

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		57 (LHD)	C1		63 (*3)	E40	B	56 (LHD)
		67 (RHD)	C4		53 (*1)			66 (RHD)
A19		57 (LHD)			63 (*3)	E41	B	56 (LHD)
		67 (RHD)	C5		53 (*1)			66 (RHD)
A24	A	62 (*3)			63 (*3)	E42	A	48, 56 (LHD)
A26		52 (*1)	C55	D	53 (*1)			48, 66 (RHD)
		62 (*3)	C56		53 (*1)	E43	B	48, 56 (LHD)
A40	A	57 (LHD)			63 (*3)			48, 66 (RHD)
		67 (RHD)	C57		53 (*1)	E62	G	48, 56 (LHD)
A41	A	57 (LHD)			63 (*3)	F1	A	57 (LHD)
		67 (RHD)	C58	E	63 (*3)			67 (RHD)
A42	B	57 (LHD)	E10		56 (LHD)	F2	B	57 (LHD)
		67 (RHD)			66 (RHD)			67 (RHD)
A55	B	52 (*1)	E18	A	56 (LHD)	b1	B	57 (LHD)
A58	A	57 (LHD)			66 (RHD)			67 (RHD)
		67 (RHD)	E31		56 (LHD)			
C1		53 (*1)			66 (RHD)			

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3F		
3G		
3H		
3J		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

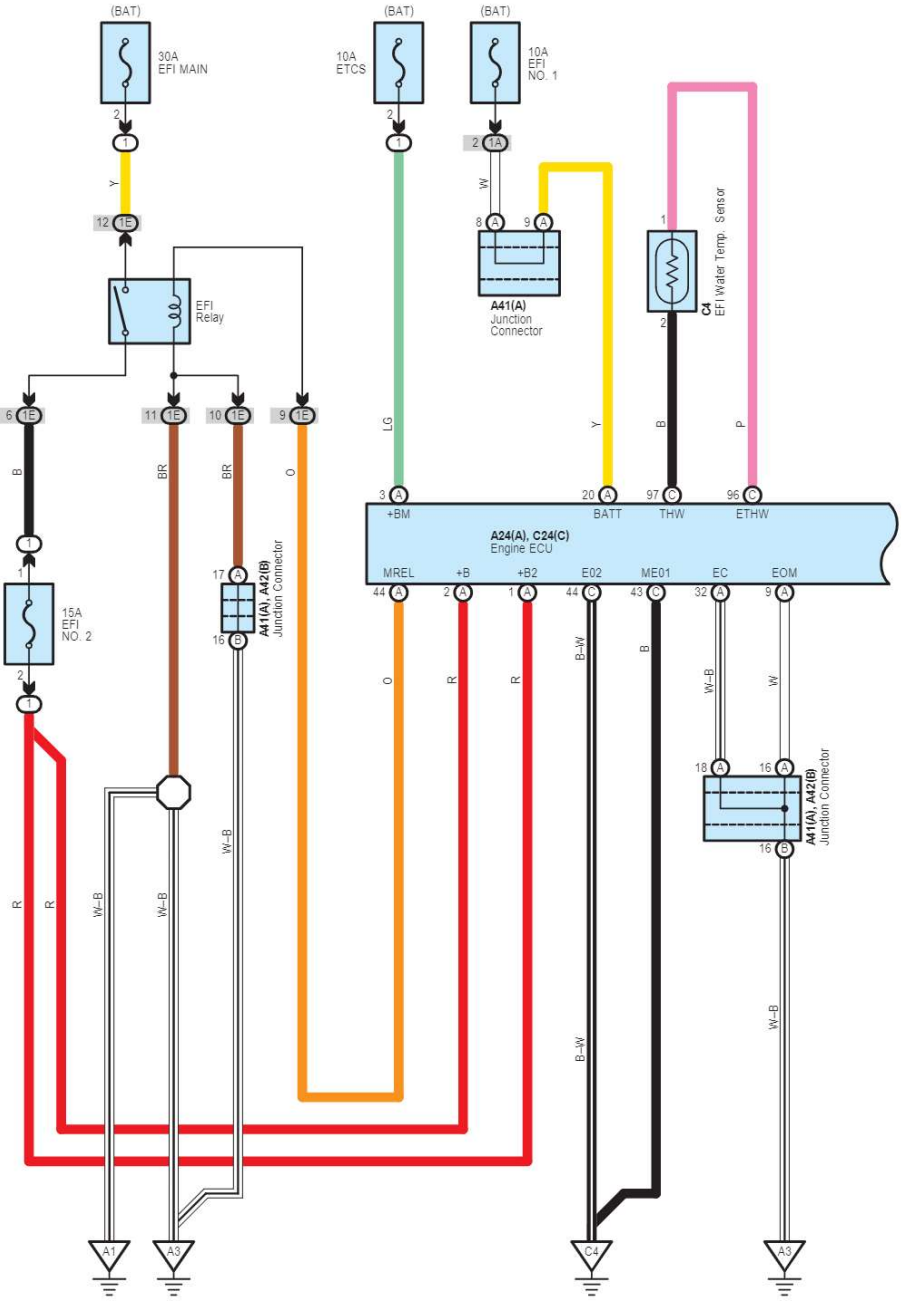
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	78 (*3)	
CA3	72 (*1)	
	78 (*3)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

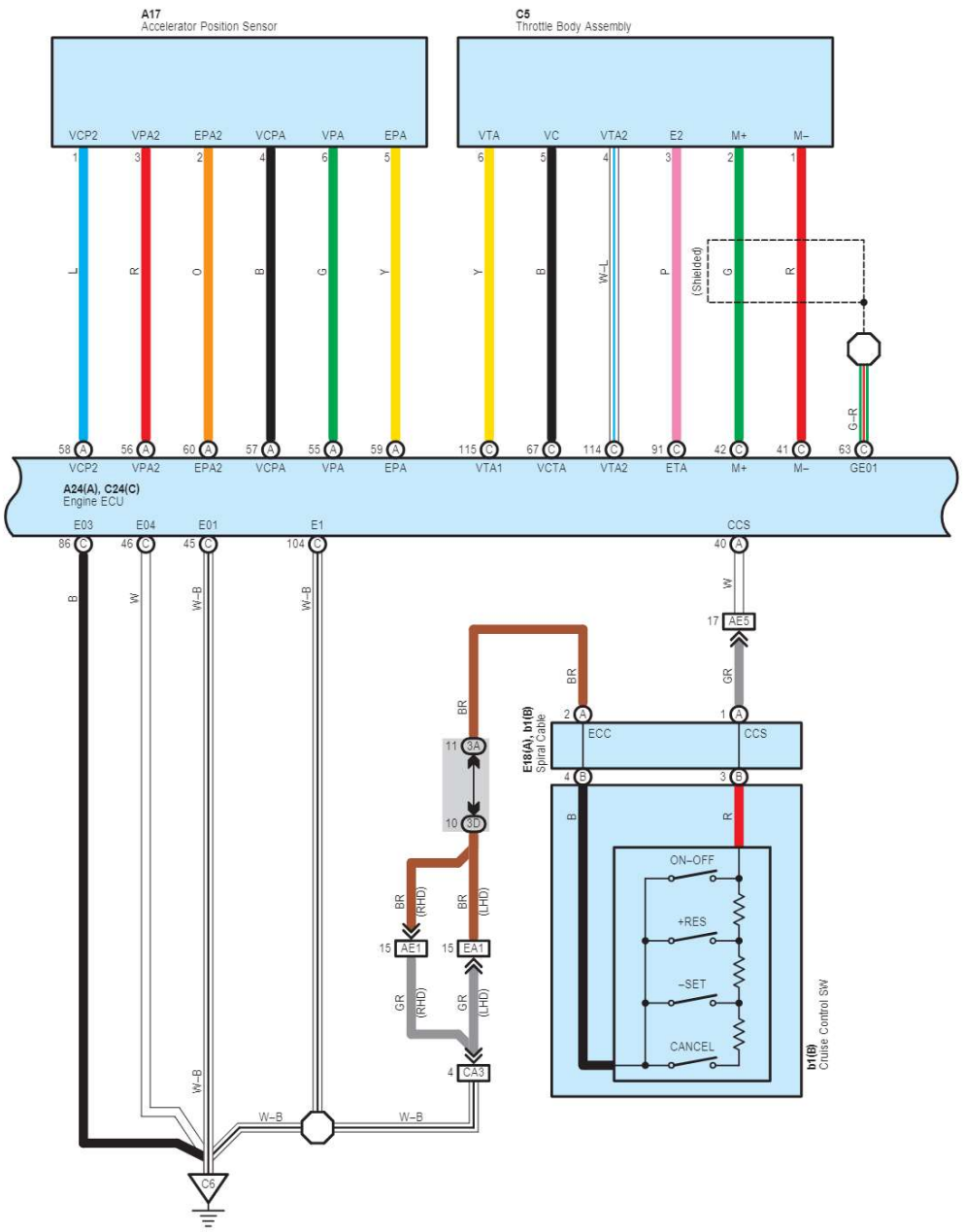
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

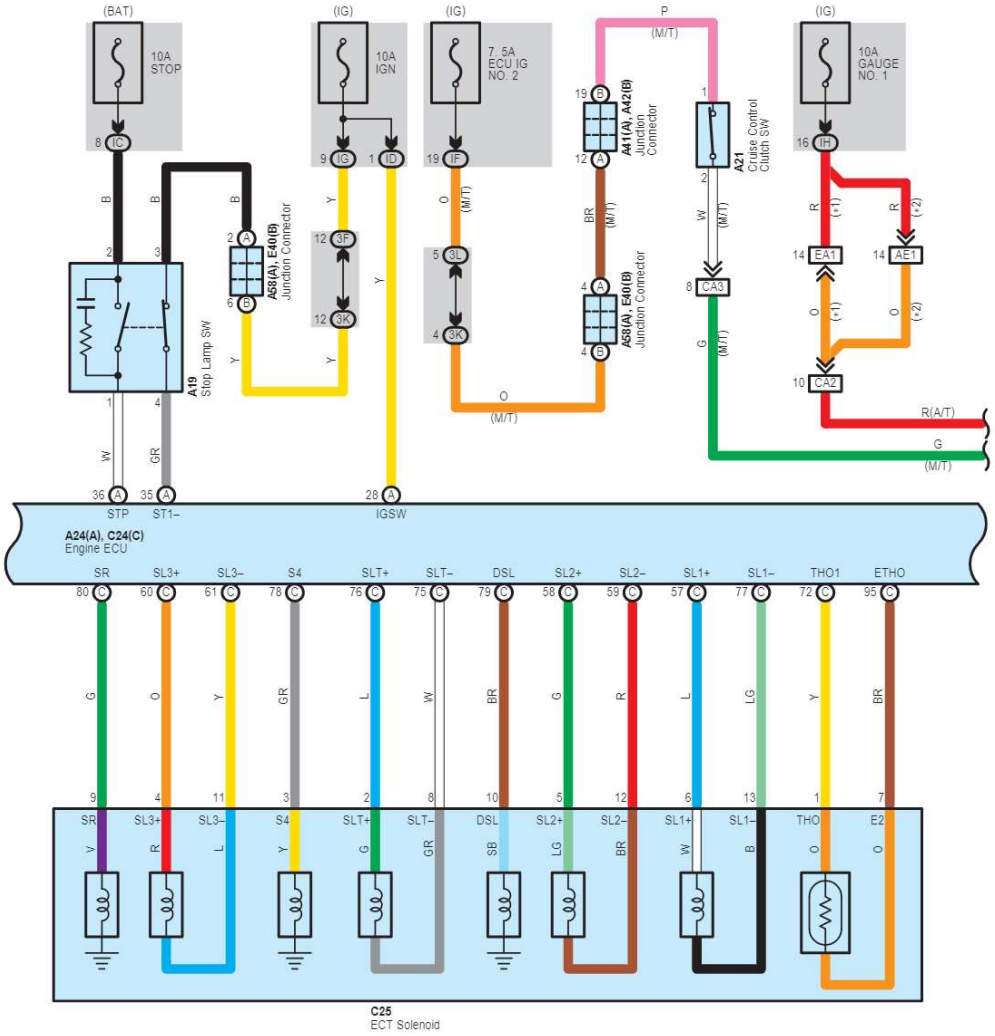
▽ : **Ground Points**

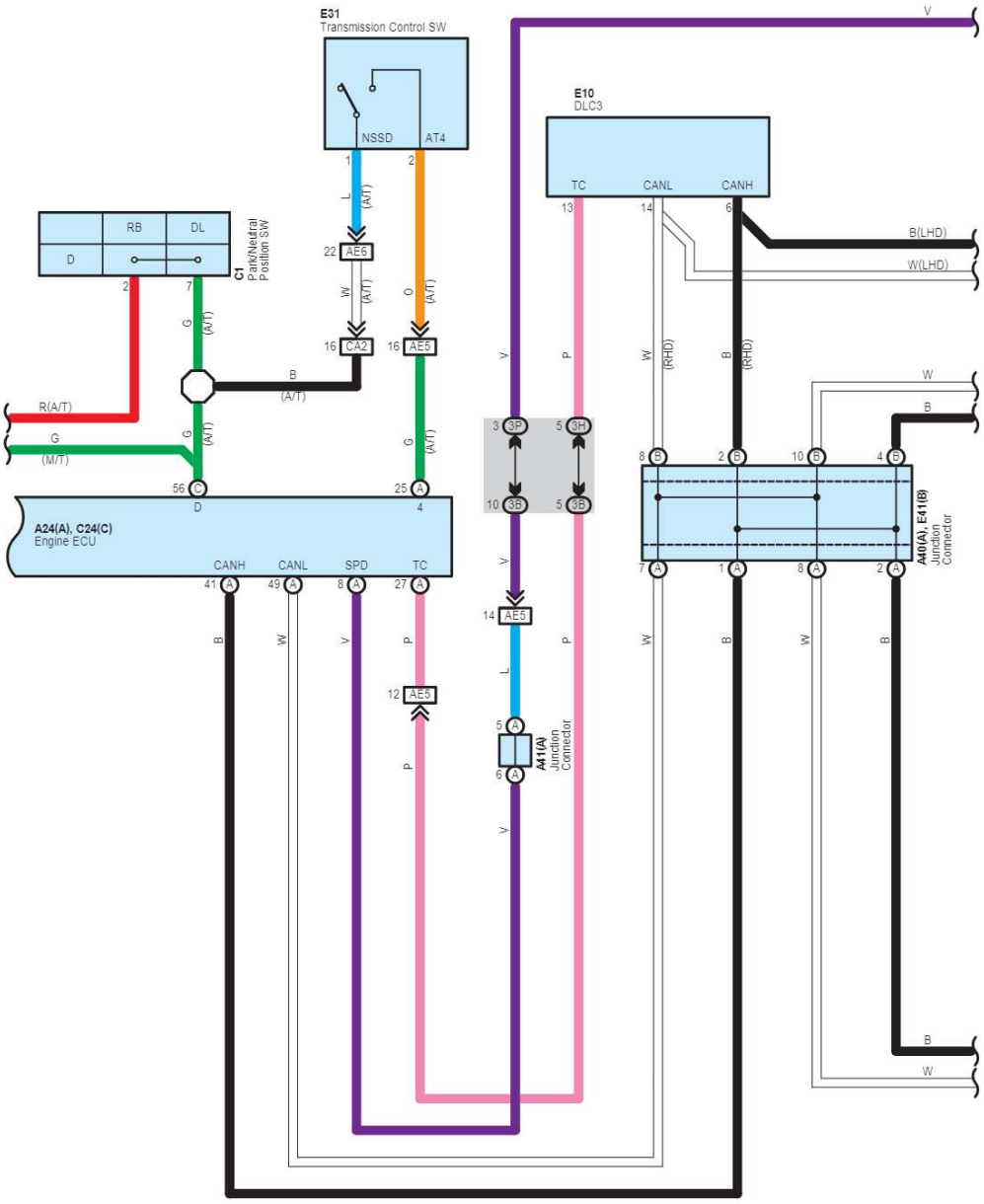
Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	78 (*3)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	72 (*1)	Cylinder Head
	78 (*3)	Front Left Side of the Cylinder Block
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

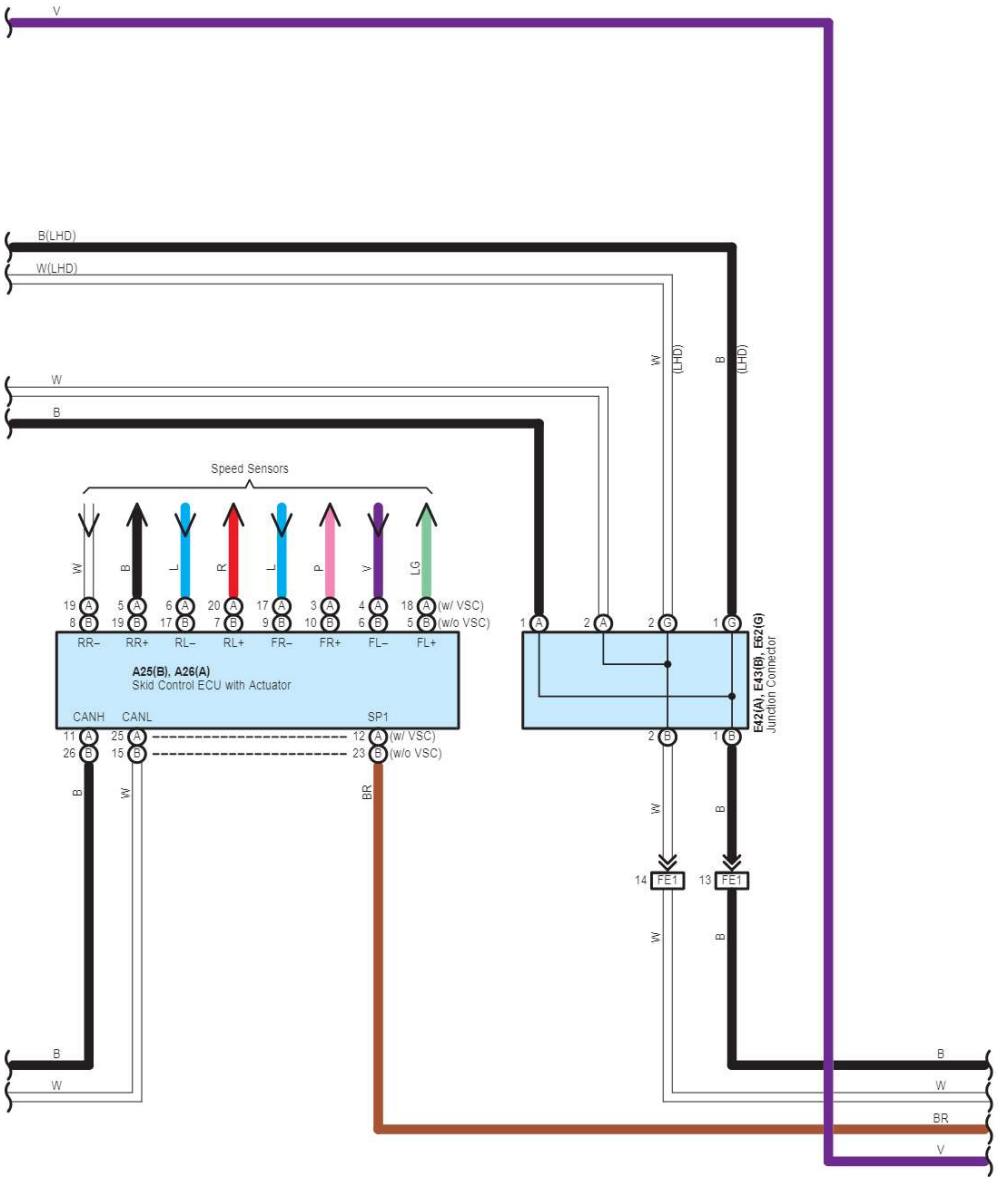
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

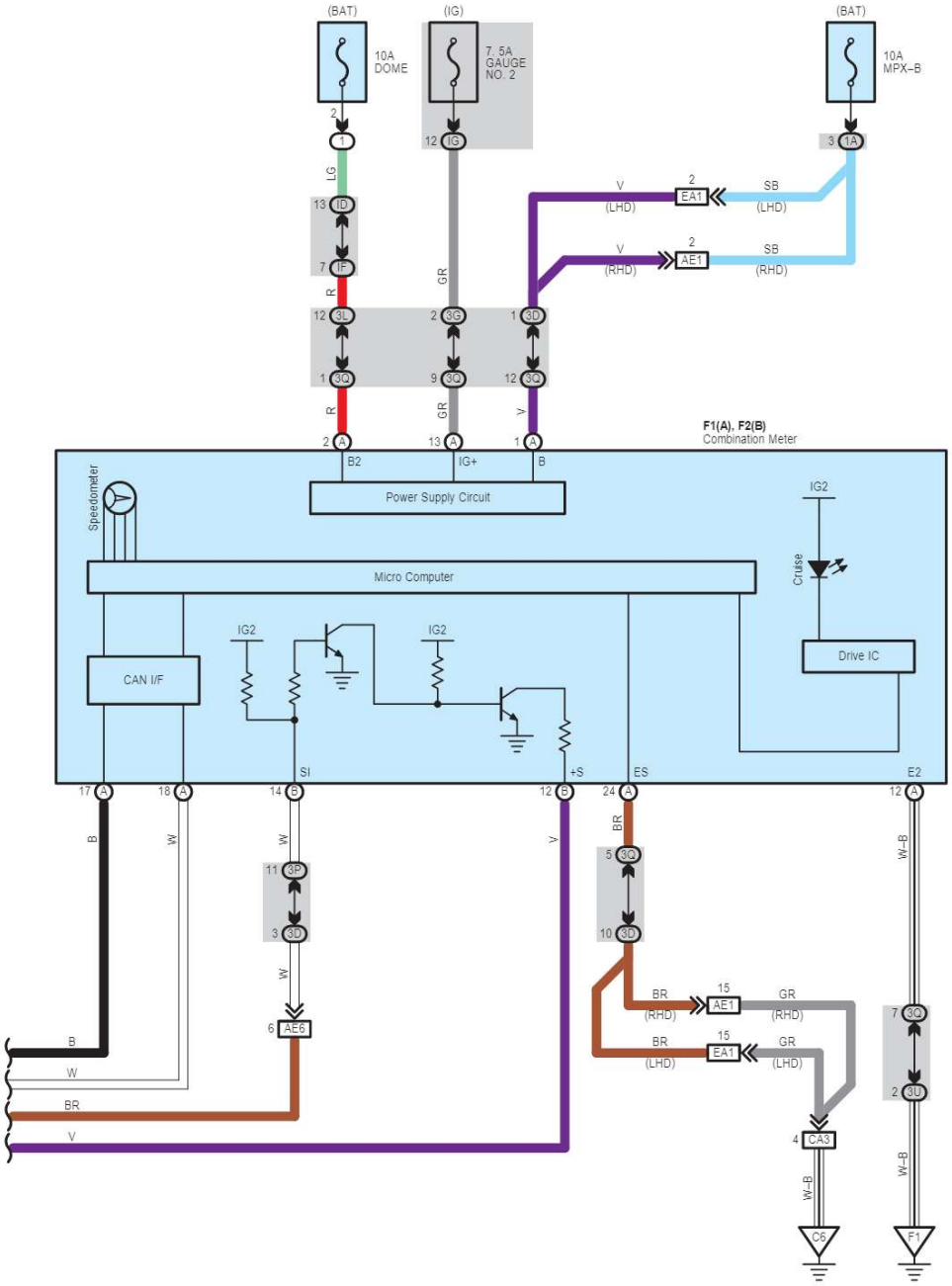

(BAT)
30A
EFI MAIN
(BAT)
10A
ETCS
(BAT)
10A
EFI
NO. 1
EFI
Relay
15A
EFI
NO. 2
A41(A)
Junction
Connector
C4
EFI Water Temp. Sensor
A41(A), A42(B)
Junction Connector
A24(A), C24(C)
Engine ECU
+BM
BATT
THW
ETHW
MREL
+B
+B2
E02
ME01
EC
EOM
A41(A), A42(B)
Junction Connector
A1
A3
C4
A3


A17
Accelerator Position Sensor
C5
Throttle Body Assembly
VCP2
VPA2
EPA2
VCPA
VPA
EPA
VTA
VC
VTA2
E2
M+
M–
(Shielded)
G–R
A24(A), C24(C)
Engine ECU
VTA1
VCTA
ETA
GE01
E03
E04
E01
E1
CCS
E18(A), b1(B)
Spiral Cable
ECC
b1(B)
Cruise Control SW
ON–OFF
+RES
–SET
CANCEL
(RHD)
(LHD)
C6


(BAT)
10A STOP
(IG)
10A IGN
(IG)
7. 5A ECU IG NO. 2
P (M/T)
(IG)
10A GAUGE NO. 1
A19 Stop Lamp SW
A58(A), E40(B) Junction Connector
A41(A), A42(B) Junction Connector
A21 Cruise Control Clutch SW
A58(A), E40(B) Junction Connector
R(A/T)
G (M/T)
STP
ST1–
IGSW
A24(A), C24(C) Engine ECU
SR
SL3+
SL3–
S4
SLT+
SLT–
DSL
SL2+
SL2–
SL1+
SL1–
THO1
ETHO
C25 ECT Solenoid
* 1 : LHD A/T
* 2 : RHD A/T


E31
Transmission Control SW
NSSD
AT4
E10
DLC3
TC
CANL
CANH
RB
DL
D
C1
Park/Neutral Position SW
AE6
CA2
AE5
R(A/T)
G
(M/T)
B
(A/T)
A24(A), C24(C)
Engine ECU
CANH
CANL
SPD
TC
3P
3H
3B
5B
A41(A)
Junction Connector
A40(A), E41(B)
Junction Connector
B(LHD)
W(LHD)
(RHD)


V
B(LHD)
W(LHD)
W
B
W (LHD)
B (LHD)
Speed Sensors
W
B
L
R
L
P
V
LG
19 A
8 B
RR–
5 A
19 B
RR+
6 A
17 B
RL–
20 A
7 B
RL+
17 A
9 B
FR–
3 A
10 B
FR+
4 A
6 B
FL–
18 A
5 B
FL+
(w/ VSC)
(w/o VSC)
A25(B), A26(A)
Skid Control ECU with Actuator
CANH
CANL
SP1
11 A
26 B
25 A
15 B
12 A
23 B
(w/ VSC)
(w/o VSC)
1 A
2 A
2 C
1 C
E42(A), E43(B), E52(G)
Junction Connector
2 B
1 B
14 FE1
13 FE1
B
W
BR
V


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
LG
GR
V
(LHD)
SB
(LHD)
V
(RHD)
SB
(RHD)
R
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Micro Computer
IG2
Cruise
Drive IC
CAN I/F
IG2
IG2
SI
+S
ES
E2
B
W
W
V
BR
W–B
W
W
BR
V
BR
(RHD)
GR
(RHD)
BR
(LHD)
GR
(LHD)
W–B
W–B

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
A17		57 (LHD)
		67 (RHD)
A19		57 (LHD)
		67 (RHD)
A21		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	54 (*2)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)

Code		See Page
A42	B	67 (RHD)
A58	A	57 (LHD)
		67 (RHD)
C1		55 (*2)
		65 (*4)
C4		55 (*2)
		65 (*4)
C5		55 (*2)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C25		55 (*2)
		65 (*4)
E10		56 (LHD)
		66 (RHD)
E18	A	56 (LHD)
		66 (RHD)

Code		See Page
E31		56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E62	G	48, 56 (LHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
b1	B	57 (LHD)
		67 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3F		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE　* 2 : LHD 2AZ–FE　* 3 : RHD 2GR–FE　* 4 : RHD 2AZ–FE

Cruise Control (2AZ–FE)

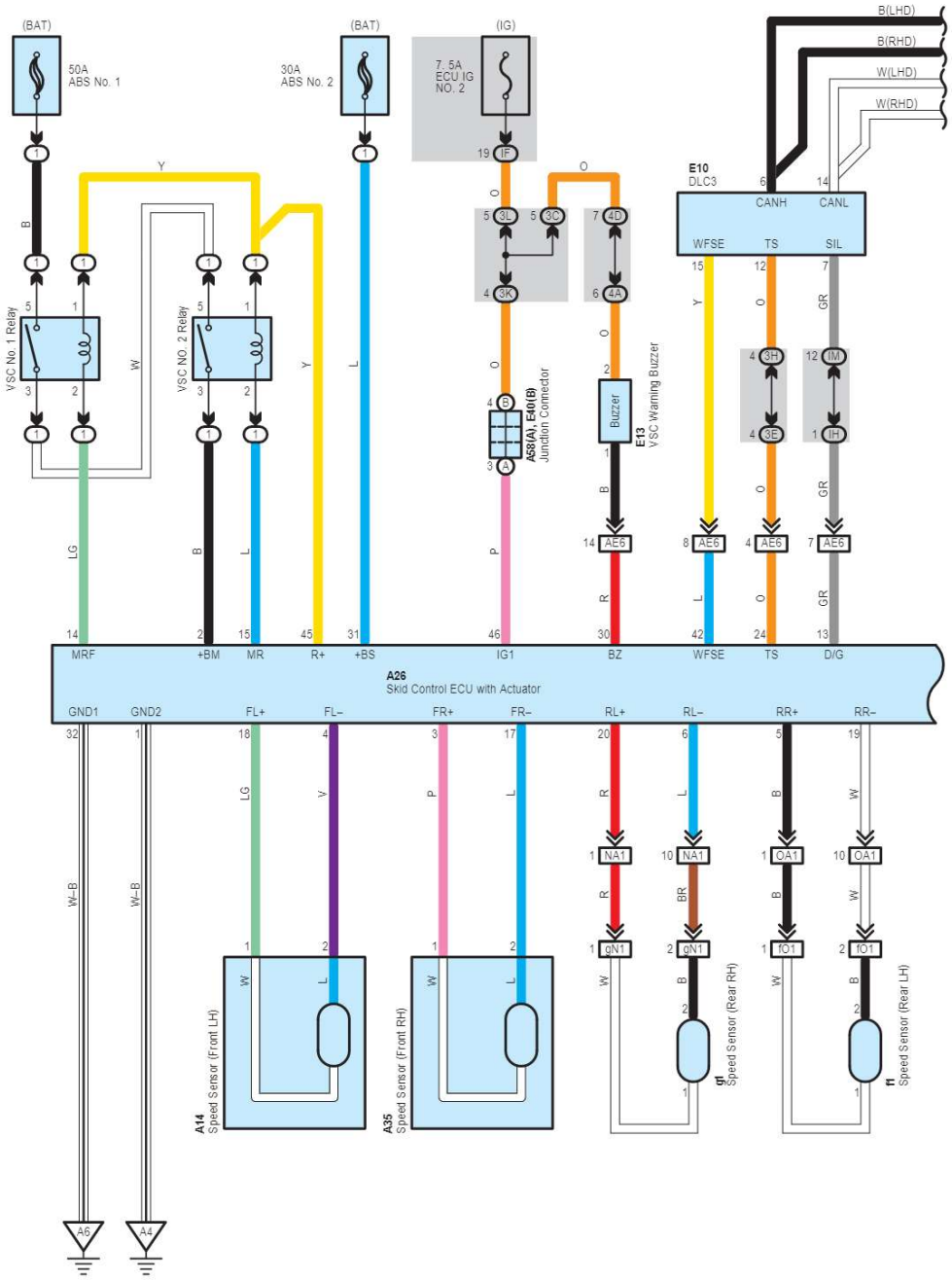
: **Connector Joining Wire Harness and Wire Harness**

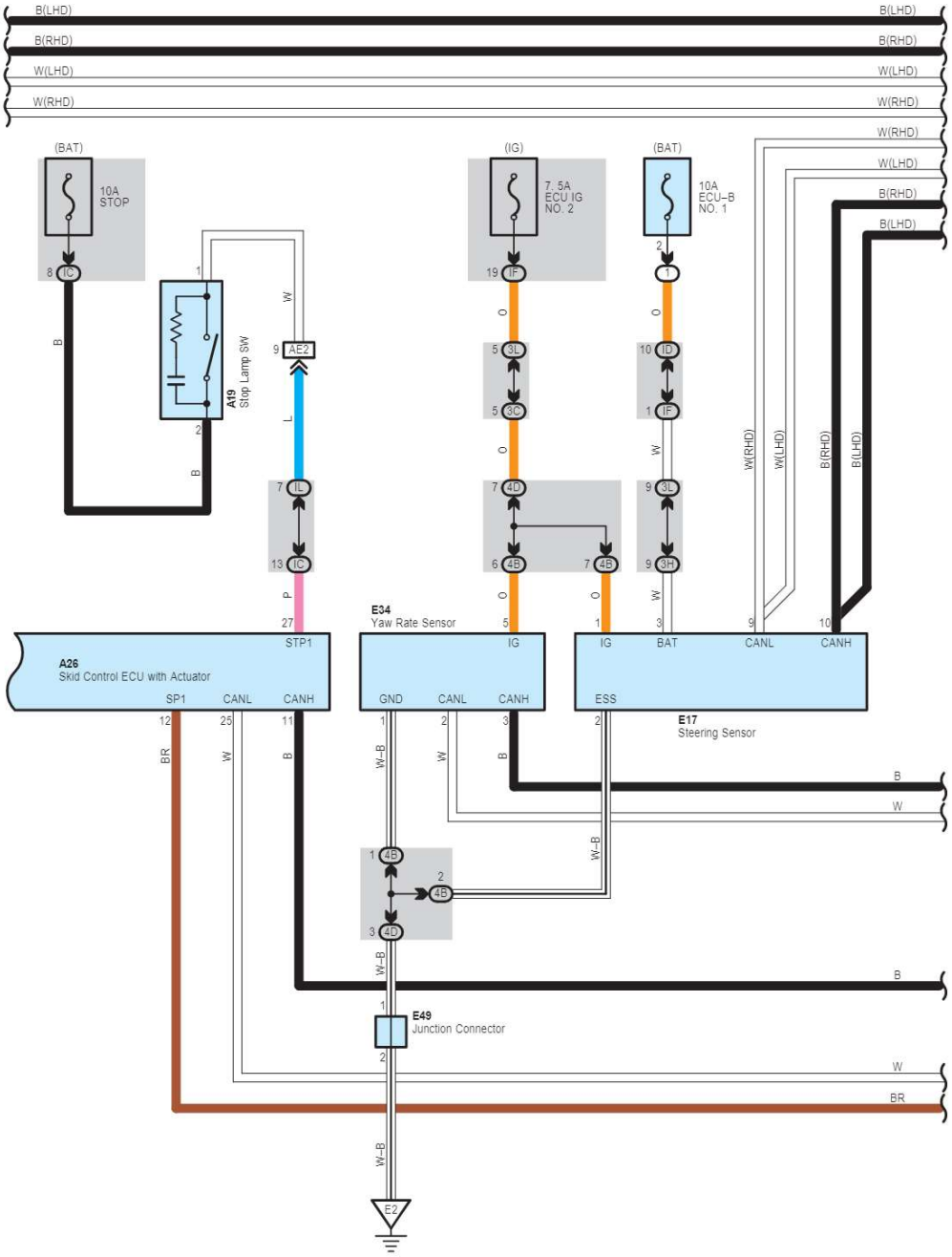
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
CA3	73 (*2)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

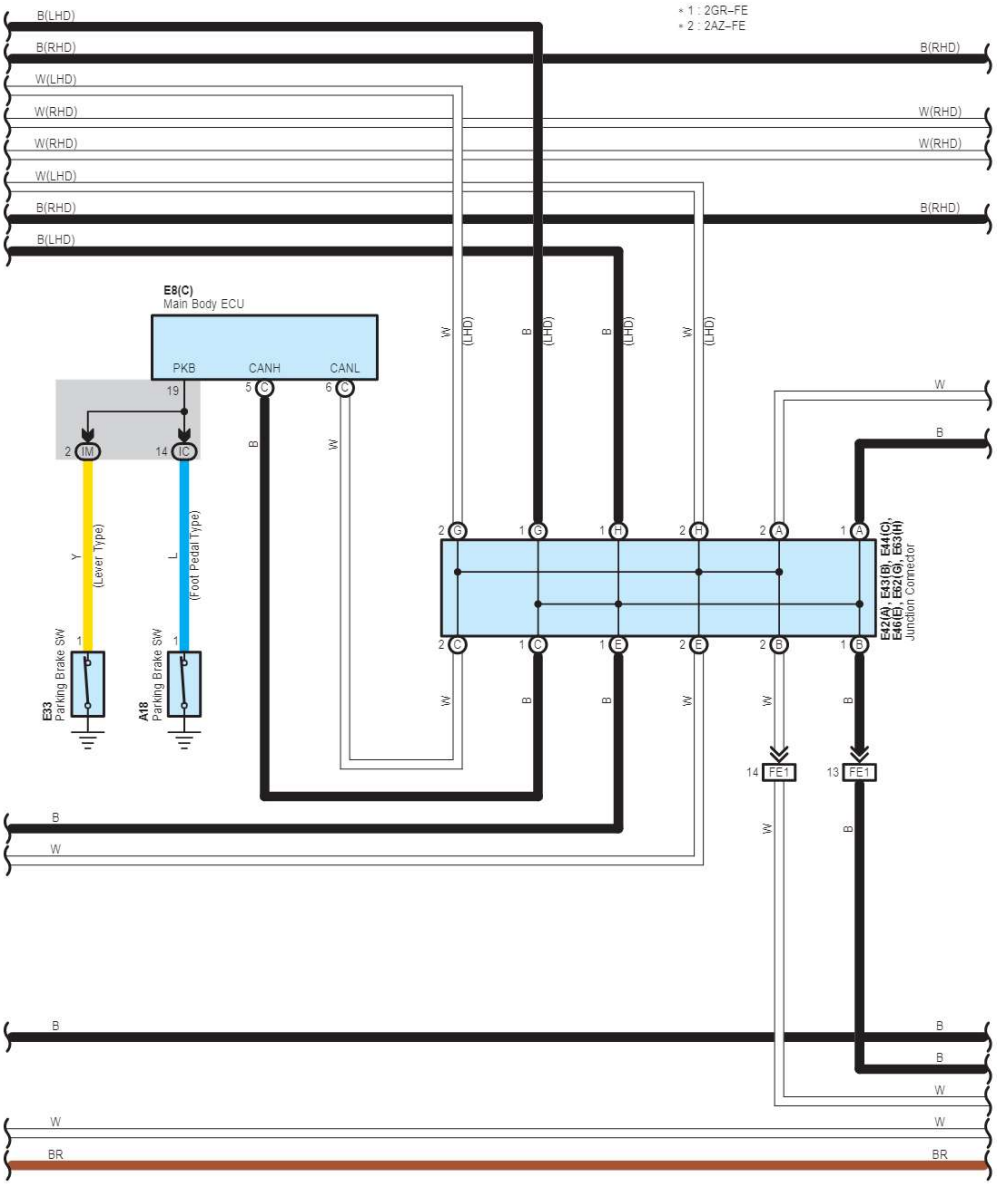
: **Ground Points**

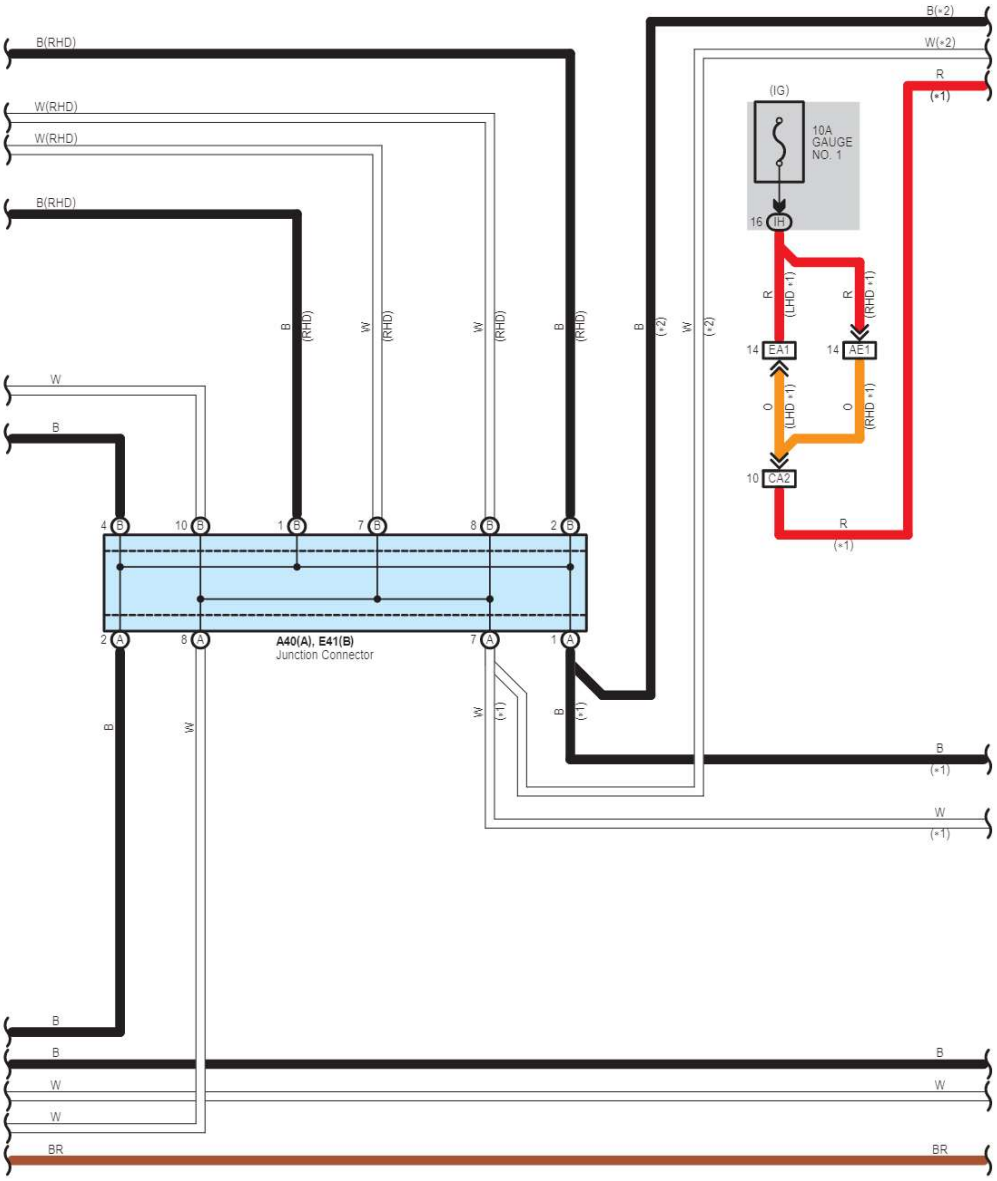
Code	See Page	Ground Points Location
A1	73 (*2)	Front Left Fender
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C6	73 (*2)	
	79 (*4)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

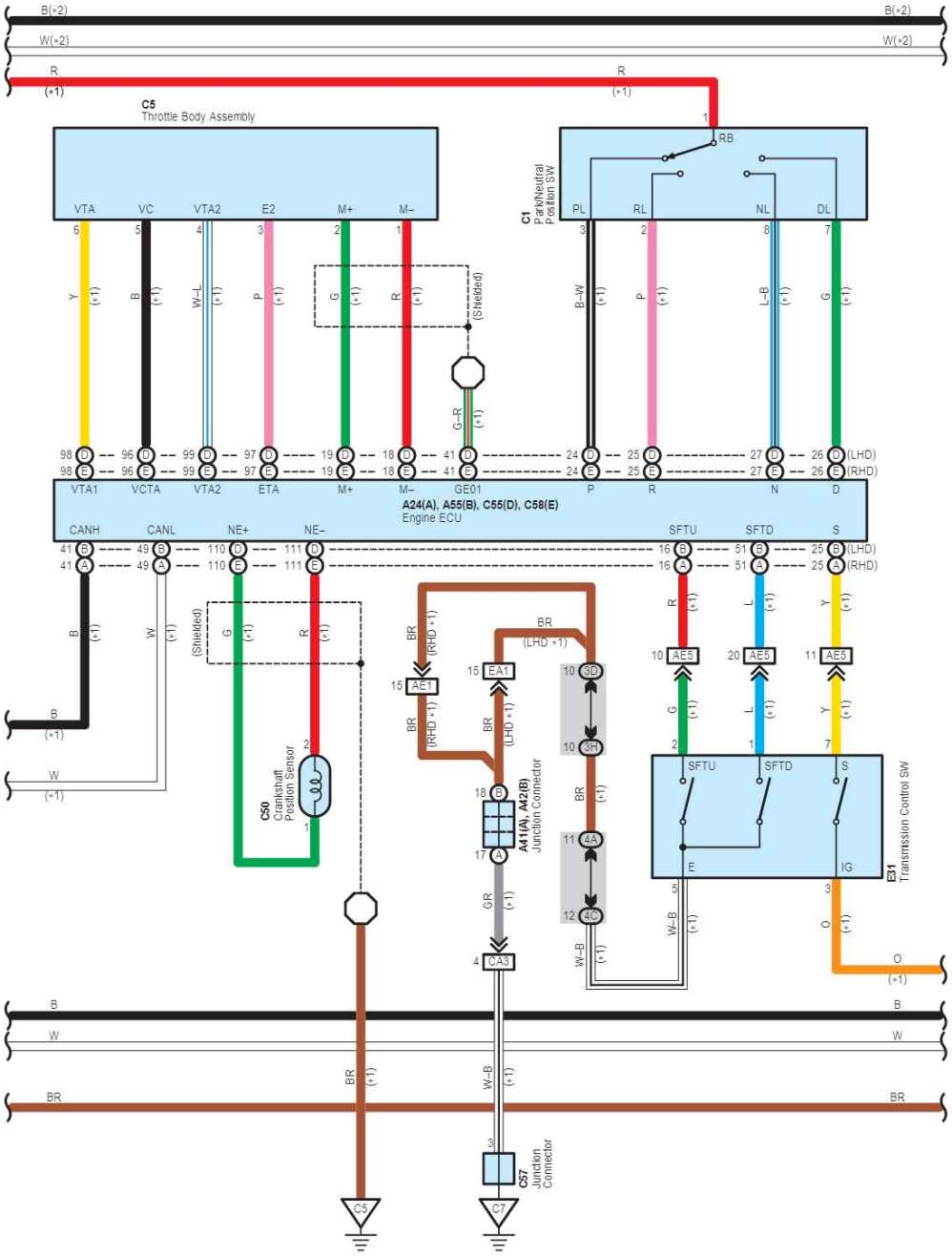
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

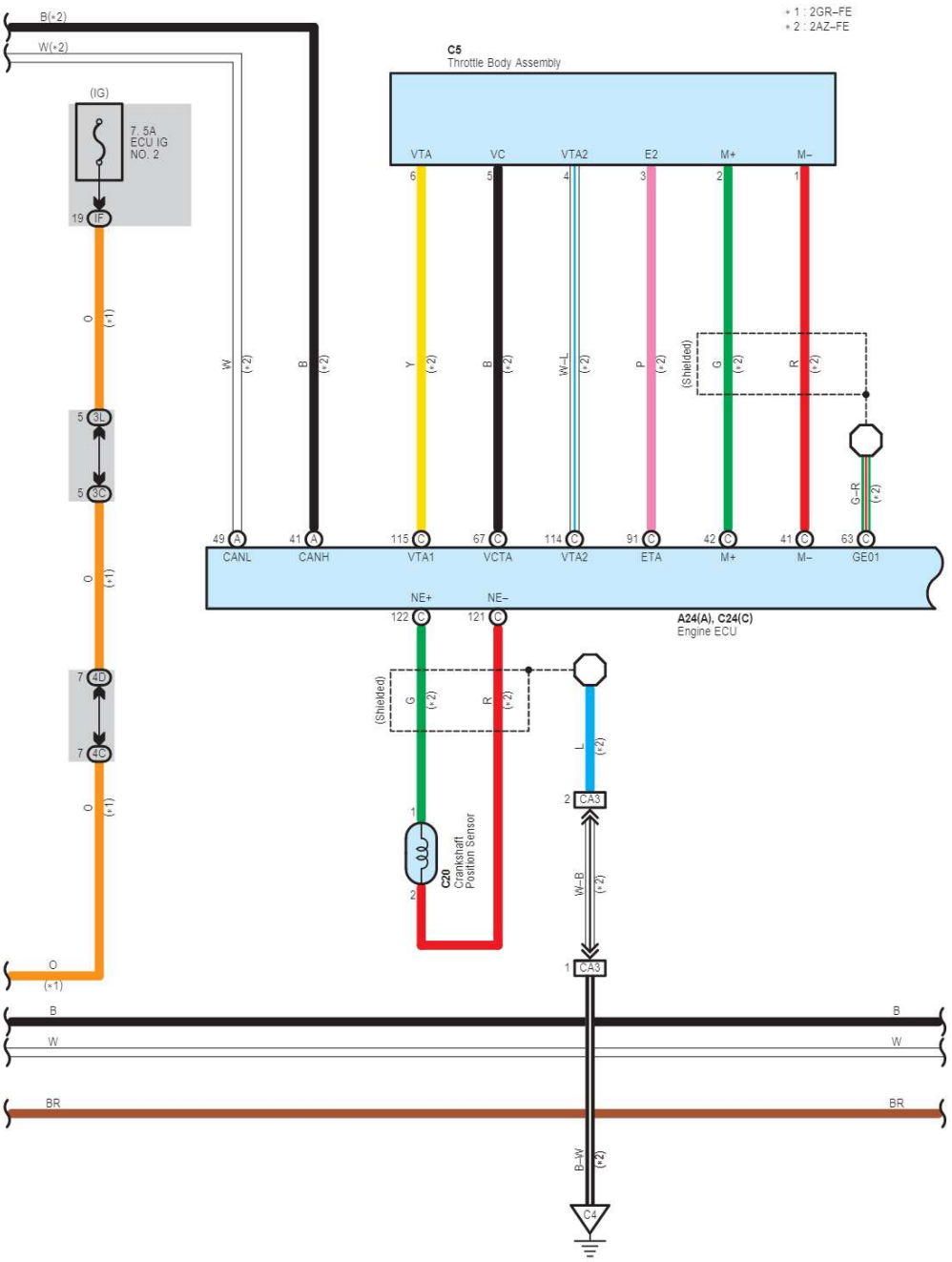

(BAT)
50A
ABS No. 1
(BAT)
30A
ABS No. 2
(IG)
7. 5A
ECU IG
NO. 2
B(LHD)
B(RHD)
W(LHD)
W(RHD)
E10
DLC3
CANH
CANL
WFSE
TS
SIL
VSC No. 1 Relay
VSC NO. 2 Relay
A58(A), E40(B)
Junction Connector
Buzzer
E13
VSC Warning Buzzer
A26
Skid Control ECU with Actuator
MRF
+BM
MR
R+
+BS
IG1
BZ
WFSE
TS
D/G
GND1
GND2
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
A14
Speed Sensor (Front LH)
A35
Speed Sensor (Front RH)
Speed Sensor (Rear RH)
Speed Sensor (Rear LH)

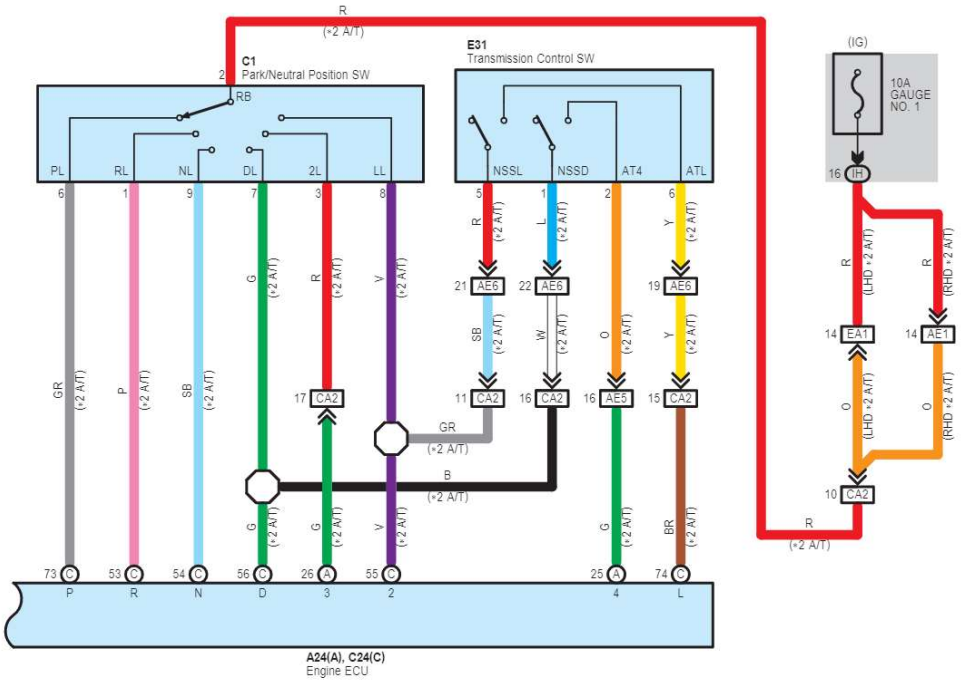

B(LHD)
B(RHD)
W(LHD)
W(RHD)
(BAT)
10A
STOP
8 1C
B
1
2
A19
Stop Lamp SW
W
9 AE2
L
7 1L
13 1C
P
27
STP1
(IG)
7.5A
ECU IG
NO. 2
19 1F
O
5 3L
5 3C
O
7 4D
6 4B
O
5
IG
(BAT)
10A
ECU-B
NO. 1
2
1
O
10 1D
1 1F
W
9 3L
9 3H
W
3
BAT
W(RHD)
W(LHD)
B(RHD)
B(LHD)
9
CANL
10
CANH
E34
Yaw Rate Sensor
A26
Skid Control ECU with Actuator
SP1
CANL
CANH
12
BR
25
W
11
B
GND
CANL
CANH
1
W-B
2
W
3
B
IG
ESS
2
E17
Steering Sensor
B
W
W-B
1 4B
2 4B
3 4D
W-B
B
1
E49
Junction Connector
2
W
BR
W-B
E2


* 1 : 2GR–FE
* 2 : 2AZ–FE
B(LHD)
B(RHD)
W(LHD)
W(RHD)
E8(C)
Main Body ECU
PKB
CANH
CANL
19
5
6
2 IM
14 IC
Y
(Lever Type)
L
(Foot Pedal Type)
E33
Parking Brake SW
A18
Parking Brake SW
E42(A), E43(B), E44(C),
E46(E), E52(G), E53(H)
Junction Connector
14 FE1
13 FE1
BR

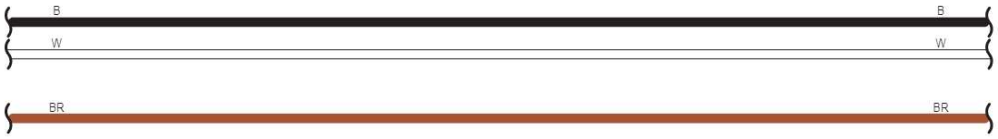

B(RHD)
W(RHD)
W(RHD)
B(RHD)
B(+2)
W(+2)
R
(*1)
(IG)
10A
GAUGE
NO. 1
16 IH
R
(LHD *1)
R
(RHD *1)
14 EA1
14 AE1
O
(LHD *1)
O
(RHD *1)
10 CA2
R
(*1)
B
(RHD)
W
(RHD)
W
(RHD)
B
(RHD)
B
(+2)
W
(+2)
W
B
4 B 10 B 1 B 7 B 8 B 2 B
2 A 8 A 7 A 1 A
A40(A), E41(B)
Junction Connector
B
W
W
(*1)
B
(*1)
B
(*1)
W
(*1)
B
B
B
W
W
BR
B
W
BR

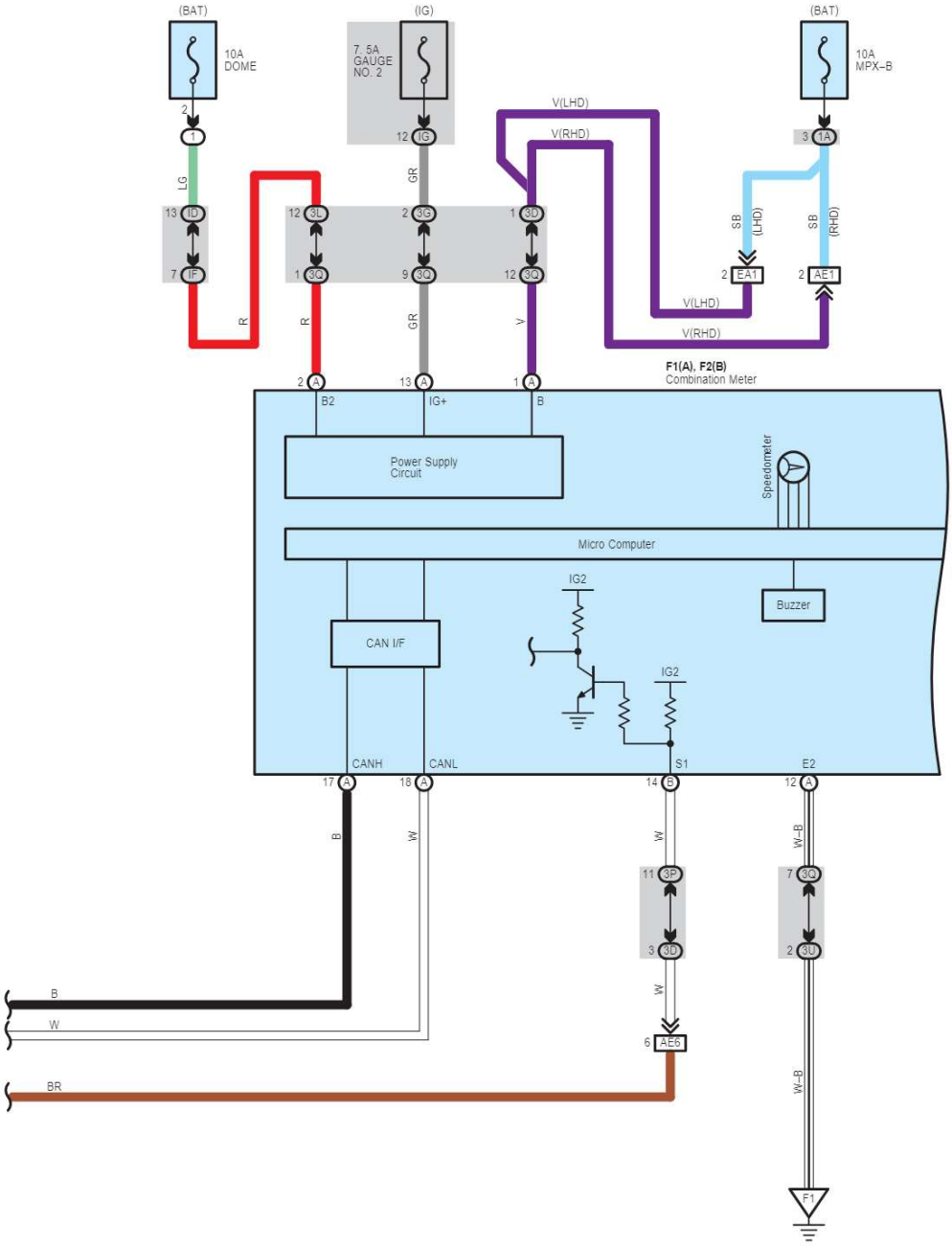

B(+2)
W(+2)
R
(*1)
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
C1
Park/Neutral Position SW
PL
RL
NL
DL
RB
(Shielded)
A24(A), A55(B), C55(D), C58(E)
Engine ECU
VTA1
VCTA
ETA
GE01
P
R
N
D
CANH
CANL
NE+
NE–
SFTU
SFTD
S
(LHD)
(RHD)
C50
Crankshaft Position Sensor
A41(A), A42(B)
Junction Connector
E31
Transmission Control SW
C57
Junction Connector
C5
C7


* 1 : 2GR–FE
* 2 : 2AZ–FE
B(*2)
W(*2)
(IG)
7.5A
ECU IG
NO. 2
19 1F
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
6
5
4
3
2
1
W (*2)
B (*2)
Y (*2)
B (*2)
W–L (*2)
P (*2)
(Shielded)
G (*2)
R (*2)
G–R (*2)
5 3L
5 3C
7 4D
7 4C
O (*1)
49 A CANL
41 A CANH
115 C VTA1
67 C VCTA
114 C VTA2
91 C ETA
42 C M+
41 C M–
63 C GE01
NE+
NE–
122 C
121 C
A24(A), C24(C)
Engine ECU
(Shielded)
G (*2)
R (*2)
L (*2)
2 CA3
1
2
C20
Crankshaft
Position Sensor
W–B (*2)
1 CA3
O (*1)
B
W
BR
B
W
BR
B–W (*2)
C4

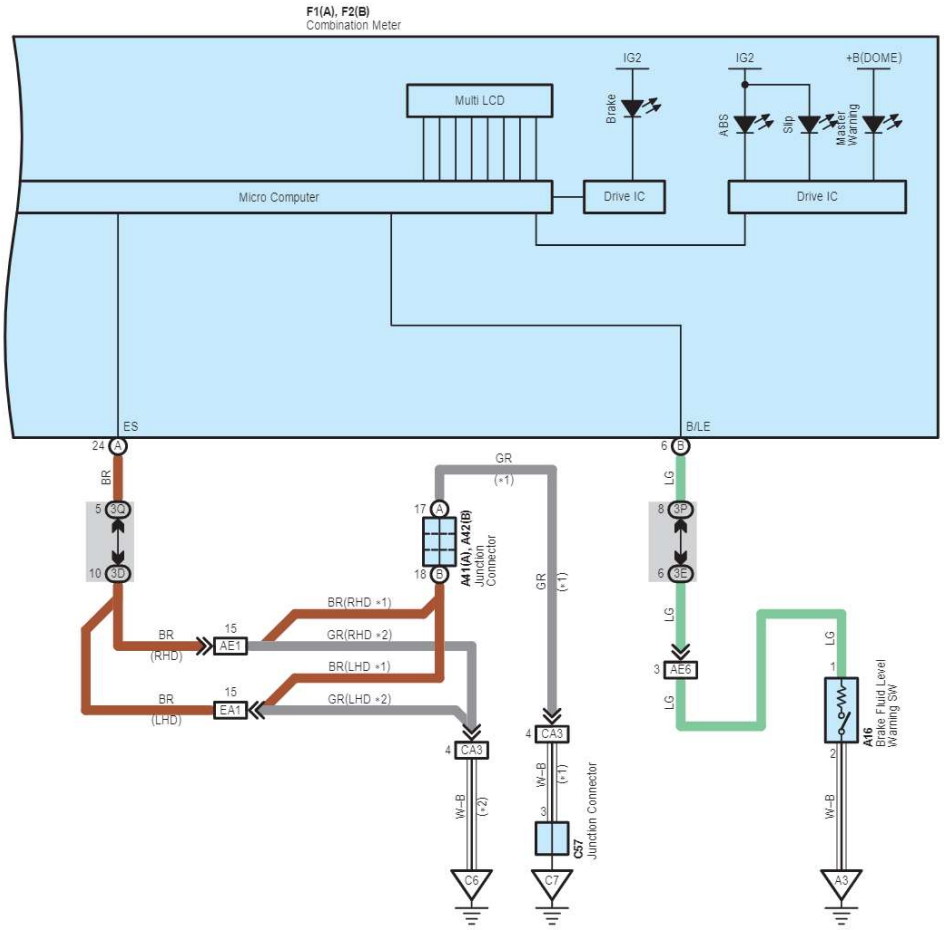

R
(*2 A/T)
C1
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
E31
Transmission Control SW
NSSL
NSSD
AT4
ATL
(IG)
10A
GAUGE
NO. 1
16 IH
R (LHD *2 A/T)
R (RHD *2 A/T)
14 EA1
14 AE1
O (LHD *2 A/T)
O (RHD *2 A/T)
10 CA2
R
(*2 A/T)
6 1 9 7 3 8 5 1 2 6
GR (*2 A/T)
P (*2 A/T)
SB (*2 A/T)
G (*2 A/T)
R (*2 A/T)
V (*2 A/T)
R (*2 A/T)
L (*2 A/T)
O (*2 A/T)
Y (*2 A/T)
21 AE6
22 AE6
19 AE6
SB (*2 A/T)
W (*2 A/T)
O (*2 A/T)
Y (*2 A/T)
17 CA2
11 CA2
16 CA2
16 AE5
15 CA2
GR
(*2 A/T)
B
(*2 A/T)
G (*2 A/T)
G (*2 A/T)
V (*2 A/T)
G (*2 A/T)
BR (*2 A/T)
73 C P
53 C R
54 C N
56 C D
26 A 3
55 C 2
25 A 4
74 C L
A24(A), C24(C)
Engine ECU

* 2 : 2AZ-FE


B
B
W
W
BR
BR


(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
V(LHD)
V(RHD)
LG
GR
SB
(LHD)
SB
(RHD)
R
R
GR
V
V(LHD)
V(RHD)
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply
Circuit
Speedometer
Micro Computer
IG2
Buzzer
CAN I/F
IG2
CANH
CANL
S1
E2
B
W
W
W–B
W
W–B
B
W
BR
AE6
F1

* 1 : 2GR–FE
* 2 : 2AZ–FE



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, TRC, and VSC systems.

○ : Parts Location

Code		See Page
A14		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A16		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A18		57 (LHD)
		67 (RHD)
A19		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		62 (*3)
		64 (*4)
A26		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A35		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A55	B	52 (*1)

Code		See Page
A58	A	57 (LHD)
		67 (RHD)
C1		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C5		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C20		55 (*2)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C50		53 (*1)
		63 (*3)
C55	D	53 (*1)
C57		53 (*1)
		63 (*3)
C58	E	63 (*3)
E8	C	56 (LHD)
		66 (RHD)
E10		56 (LHD)
		66 (RHD)
E13		56 (LHD)
		66 (RHD)
E17		56 (LHD)
		66 (RHD)
E31		56 (LHD)
		66 (RHD)

Code		See Page
E33		56 (LHD)
		66 (RHD)
E34		56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E44	C	48, 56 (LHD)
		48, 66 (RHD)
E46	E	48, 56 (LHD)
		48, 66 (RHD)
E49		56 (LHD)
		66 (RHD)
E62	G	48, 56 (LHD)
E63	H	48, 56 (LHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
f1		59 (LHD)
		69 (RHD)
g1		59 (LHD)
		69 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3E		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4B		
4C		
4D		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

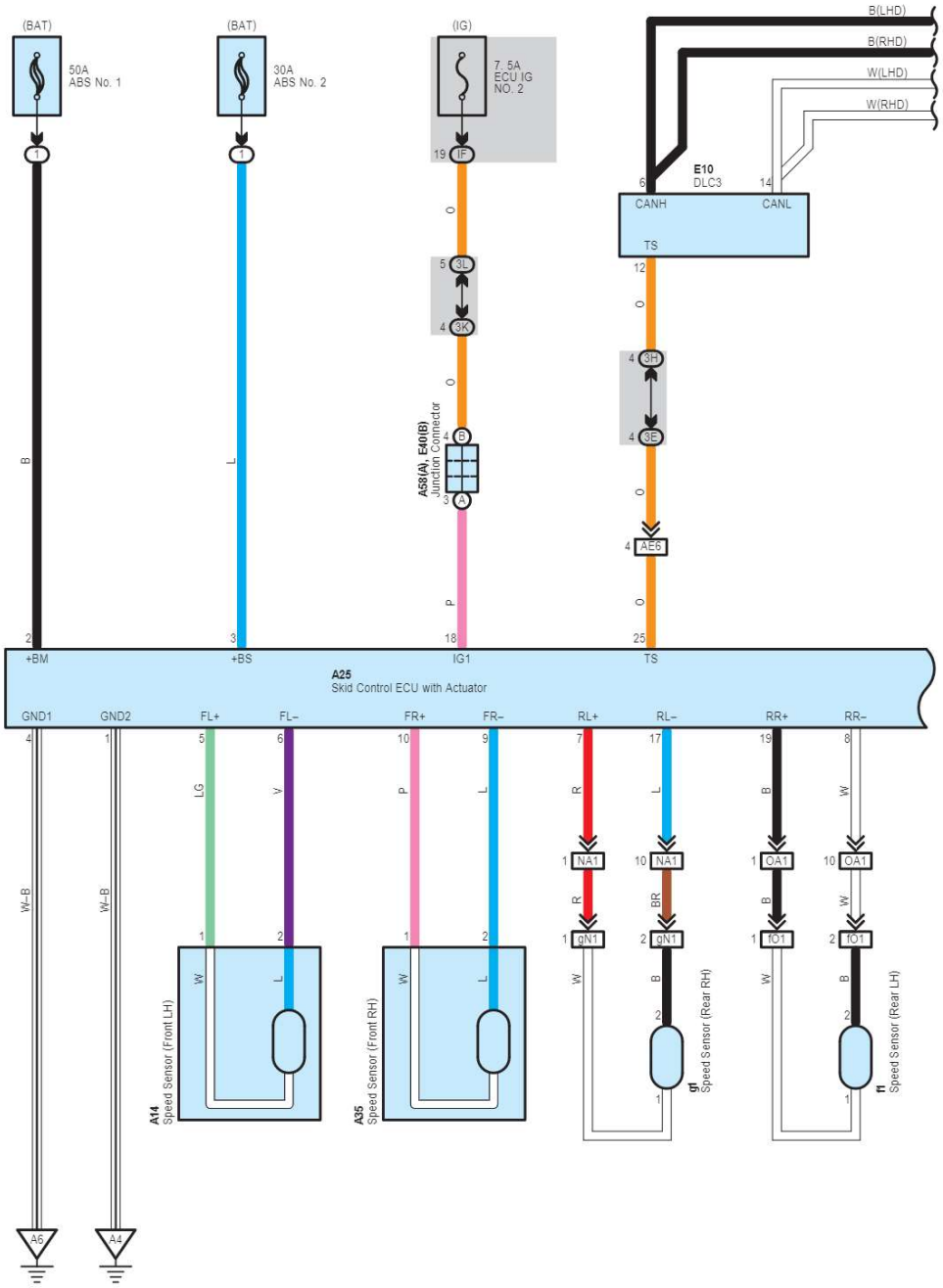
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
CA3	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	
OA1	74 (LHD)	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
	80 (RHD)	
fO1	75 (LHD)	Skid Control Sensor Wire and Floor No.2 Wire (Quarter Wheel House Panel LH)
	81 (RHD)	
gN1	75 (LHD)	Skid Control Sensor Wire and Floor Wire (Quarter Wheel House Panel RH)
	81 (RHD)	

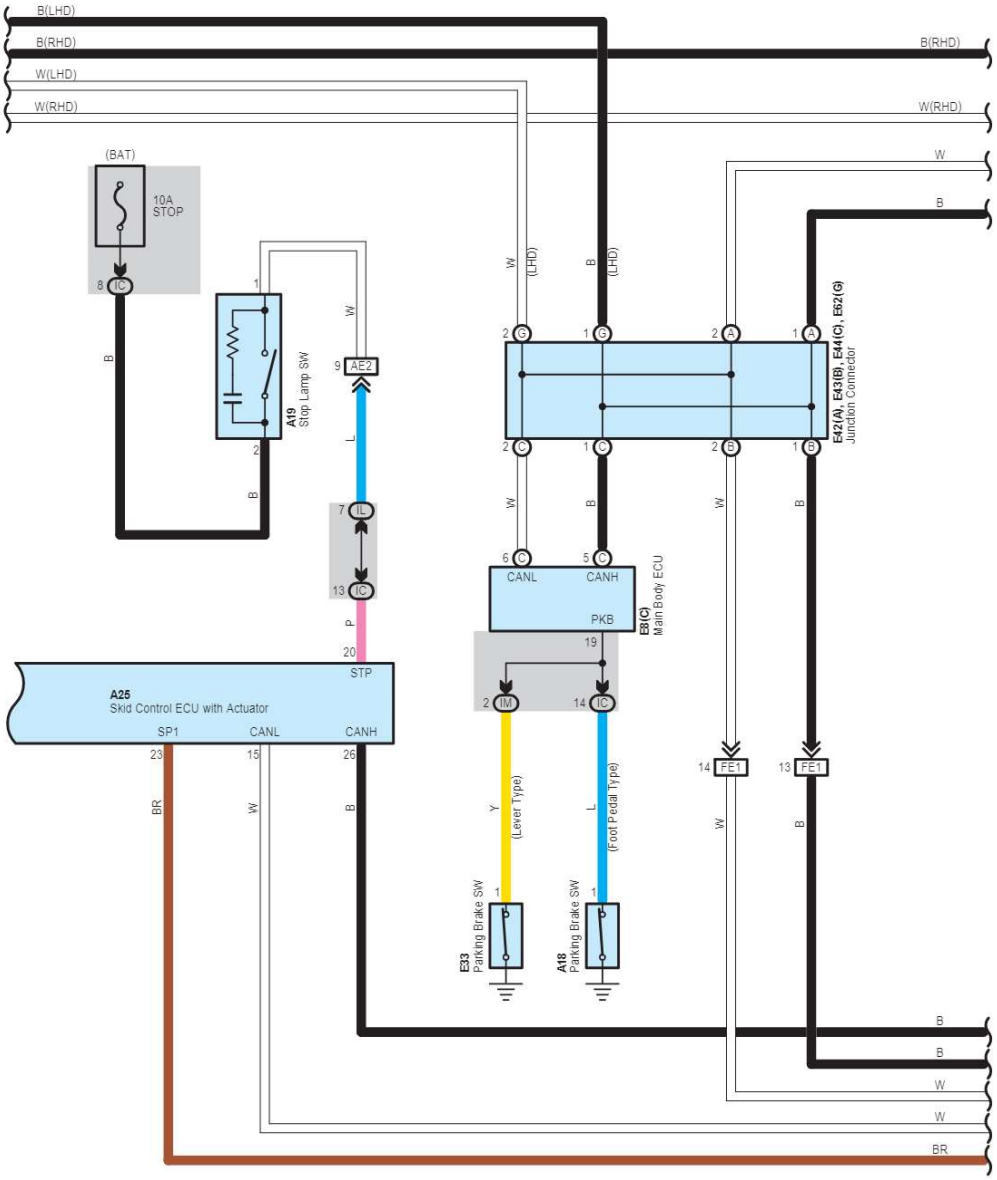
: **Ground Points**

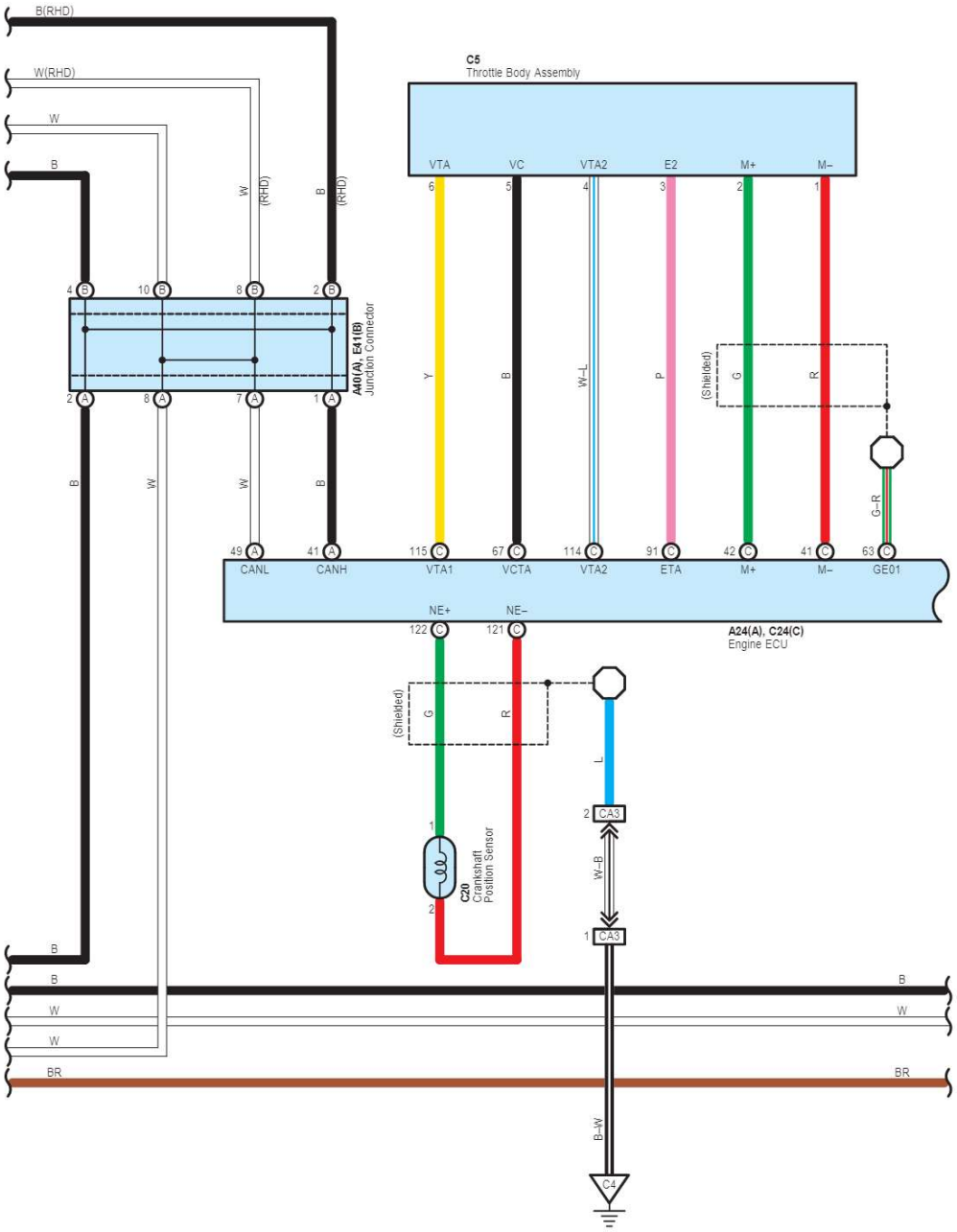
Code	See Page	Ground Points Location
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
A4	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
C4	72 (*1)	Cylinder Head
	73 (*2)	Left Side of the Cylinder Block
	78 (*3)	Front Left Side of the Cylinder Block
	79 (*4)	Left Side of the Cylinder Block
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

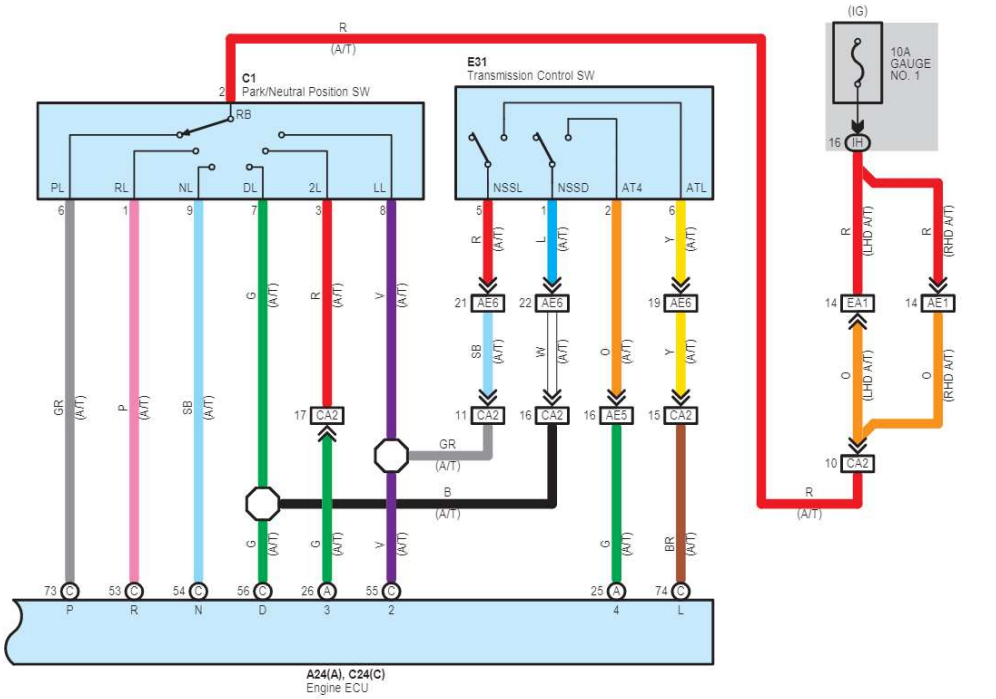
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

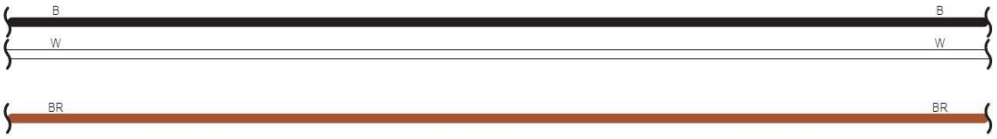
ABS without VSC



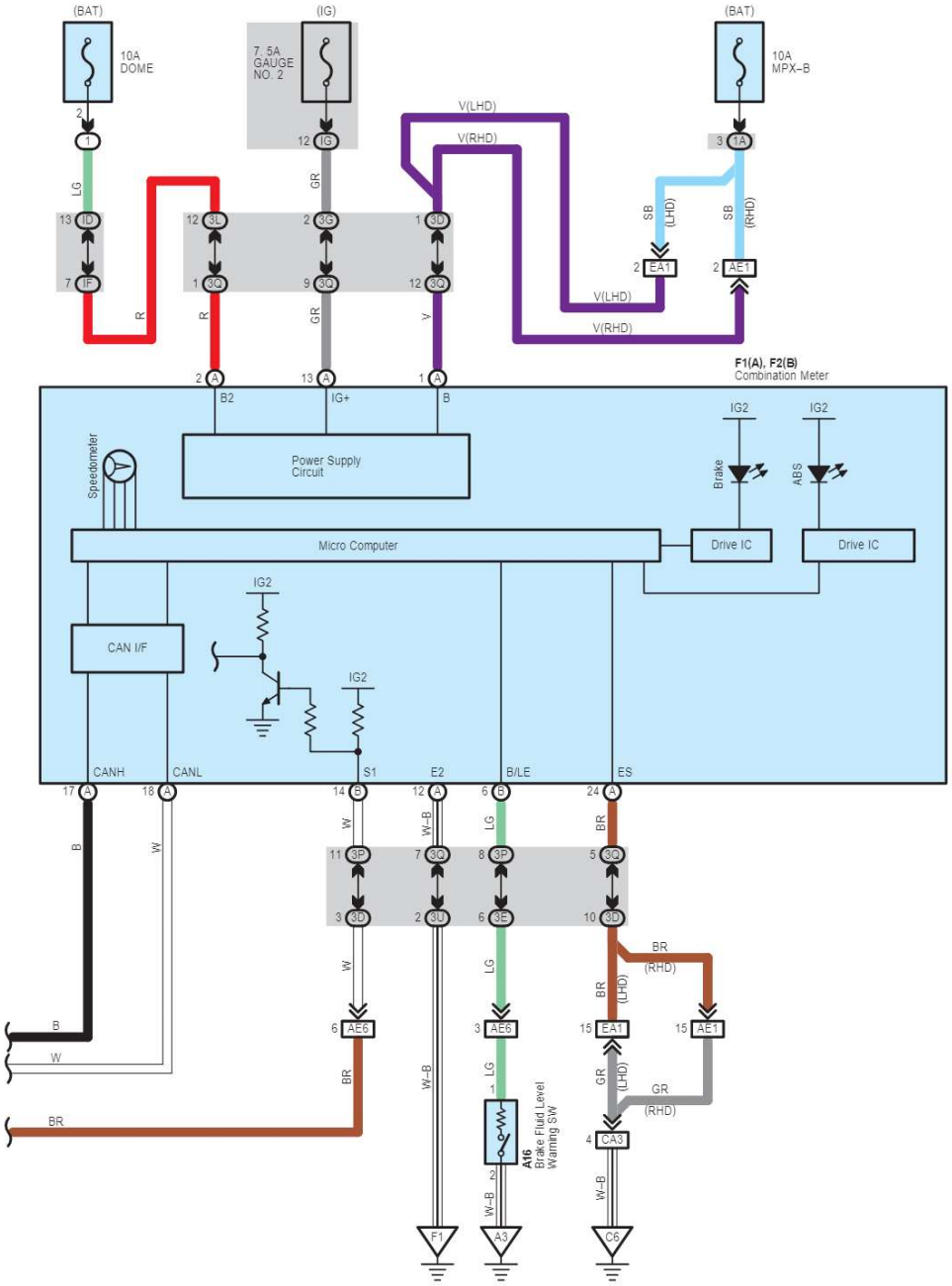

B(LHD)
B(RHD)
W(LHD)
W(RHD)
(BAT)
10A
STOP
8 IC
B
1
2
A19
Stop Lamp SW
W
9 AE2
L
7 IL
13 IC
P
20
STP
A25
Skid Control ECU with Actuator
SP1
CANL
CANH
23
15
26
BR
W
B
W (LHD)
B (LHD)
2 G
1 G
2 A
1 A
E42(A), E43(B), E44(C), E52(G)
Junction Connector
2 C
1 O
2 B
1 B
6 C
5 O
CANL
CANH
PKB
19
E81(C)
Main Body ECU
2 IM
14 IC
Y
(Lever Type)
L
(Foot Pedal Type)
E33
Parking Brake SW
A18
Parking Brake SW
14 FE1
13 FE1
W
B
B
B
W
W
BR


B(RHD)
W(RHD)
W
B
W (RHD)
B (RHD)
C5
Throttle Body Assembly
VTA
VC
VTA2
E2
M+
M–
6
5
4
3
2
1
4 B
10 B
8 B
2 B
A40(A), E41(B)
Junction Connector
2 A
8 A
7 A
1 A
Y
B
W–L
P
(Shielded)
G
R
G–R
49 A
41 A
115 C
67 C
114 C
91 C
42 C
41 C
63 C
CANL
CANH
VTA1
VCTA
VTA2
ETA
M+
M–
GE01
NE+
NE–
122 C
121 C
A24(A), C24(C)
Engine ECU
(Shielded)
G
R
L
2 CA3
W–B
1 CA3
1
2
C20
Crankshaft
Position Sensor
B
W
W
BR
B
W
BR
B–W
C4


R
(A/T)
C1
Park/Neutral Position SW
2
RB
PL
RL
NL
DL
2L
LL
E31
Transmission Control SW
NSSL
NSSD
AT4
ATL
(IG)
10A
GAUGE
NO. 1
16
IH
R
(LHD A/T)
R
(RHD A/T)
14
EA1
14
AE1
O
(LHD A/T)
O
(RHD A/T)
10
CA2
R
(A/T)
GR
(A/T)
P
(A/T)
SB
(A/T)
G
(A/T)
R
(A/T)
V
(A/T)
R
(A/T)
L
(A/T)
O
(A/T)
Y
(A/T)
SB
(A/T)
W
(A/T)
Y
(A/T)
GR
(A/T)
B
(A/T)
G
(A/T)
G
(A/T)
V
(A/T)
G
(A/T)
BR
(A/T)
21
AE6
22
AE6
19
AE6
17
CA2
11
CA2
16
CA2
16
AE5
15
CA2
73
C
P
53
C
R
54
C
N
56
C
D
26
A
3
55
C
2
25
A
4
74
C
L
A24(A), C24(C)
Engine ECU


B
B
W
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	54 (*2)	C1	55 (*2)	E41 B	56 (LHD)
	64 (*4)		65 (*4)		66 (RHD)
A16	54 (*2)	C5	55 (*2)	E42 A	48, 56 (LHD)
	64 (*4)		65 (*4)		48, 66 (RHD)
A18	57 (LHD)	C20	55 (*2)	E43 B	48, 56 (LHD)
	67 (RHD)		65 (*4)		48, 66 (RHD)
A19	57 (LHD)	C24 C	55 (*2)	E44 C	48, 56 (LHD)
	67 (RHD)		65 (*4)		48, 66 (RHD)
A24 A	54 (*2)	E8 C	56 (LHD)	E62 G	48, 56 (LHD)
	64 (*4)		66 (RHD)	F1 A	57 (LHD)
A25	54 (*2)	E10	56 (LHD)		67 (RHD)
	64 (*4)		66 (RHD)	F2 B	57 (LHD)
A35	54 (*2)	E31	56 (LHD)		67 (RHD)
	64 (*4)		66 (RHD)	f1	59 (LHD)
A40 A	57 (LHD)	E33	56 (LHD)		69 (RHD)
	67 (RHD)		66 (RHD)	g1	59 (LHD)
A58 A	57 (LHD)	E40 B	56 (LHD)		69 (RHD)
	67 (RHD)		66 (RHD)		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3E		
3G		
3H		
3K		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA2	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
CA3	73 (*2)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
NA1	74 (LHD)	Floor Wire and Engine Room Main Wire (Left Kick Panel)
	80 (RHD)	
OA1	74 (LHD)	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
	80 (RHD)	
fO1	75 (LHD)	Skid Control Sensor Wire and Floor No.2 Wire (Quarter Wheel House Panel LH)
	81 (RHD)	
gN1	75 (LHD)	Skid Control Sensor Wire and Floor Wire (Quarter Wheel House Panel RH)
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

▽ : **Ground Points**

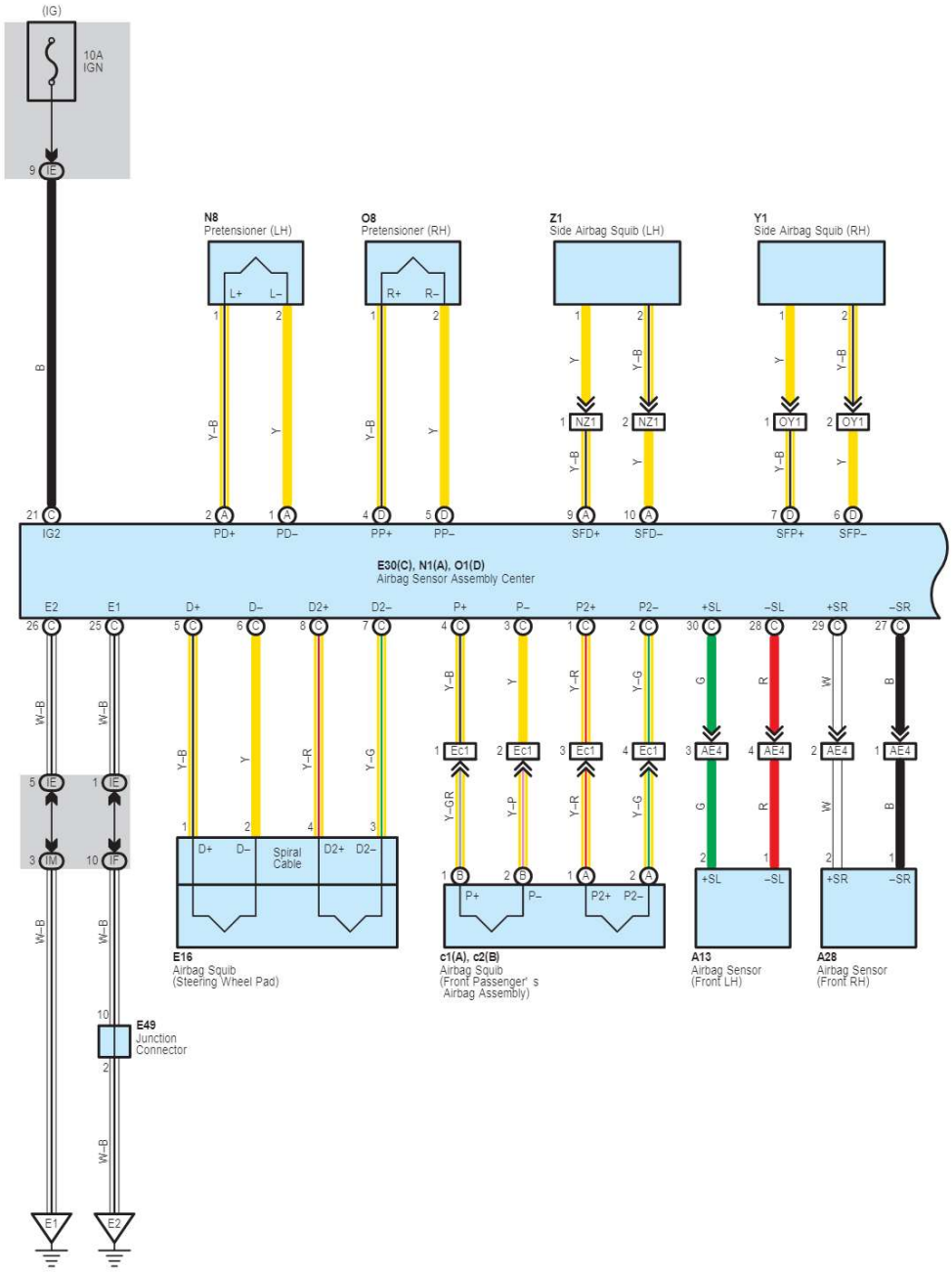
Code	See Page	Ground Points Location
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
A4	73 (*2)	Front Right Fender
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C6	73 (*2)	
	79 (*4)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

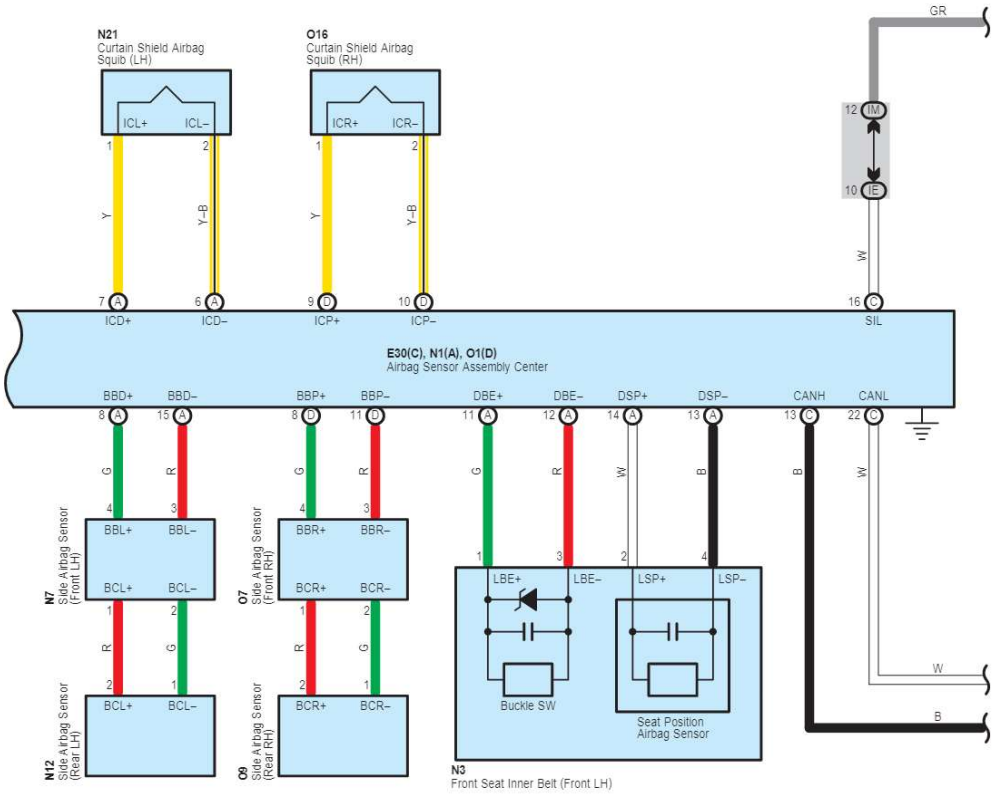
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

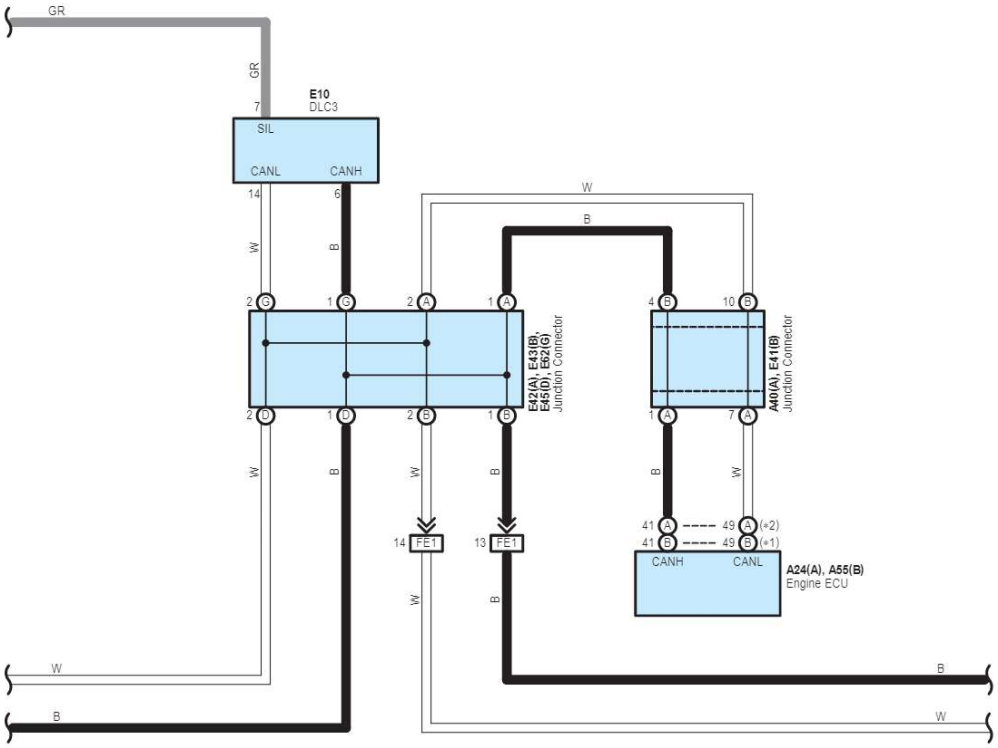
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

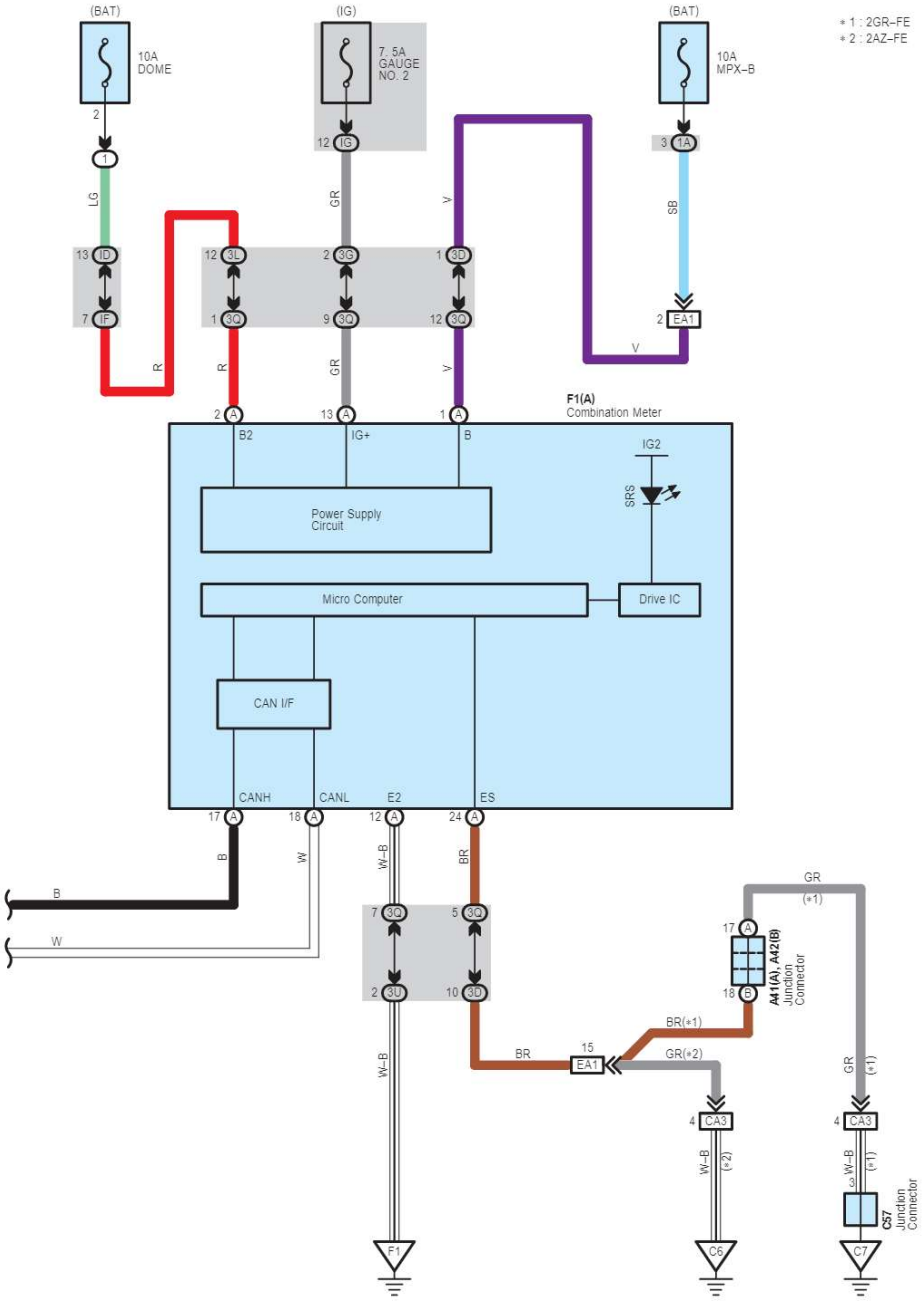
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is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

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


(IG)
10A
IGN
9 IE
B
21 C
IG2
N8
Pretensioner (LH)
L+ L–
1 2
Y–B Y
2 A 1 A
PD+ PD–
O8
Pretensioner (RH)
R+ R–
1 2
Y–B Y
4 D 5 D
PP+ PP–
Z1
Side Airbag Squib (LH)
1 2
Y Y–B
1 NZ1 2 NZ1
Y–B Y
9 A 10 A
SFD+ SFD–
Y1
Side Airbag Squib (RH)
1 2
Y Y–B
1 OY1 2 OY1
Y–B Y
7 D 6 D
SFP+ SFP–
E30(C), N1(A), O1(D)
Airbag Sensor Assembly Center
E2 E1 D+ D– D2+ D2– P+ P– P2+ P2– +SL –SL +SR –SR
26 C 25 C 5 C 6 C 8 C 7 C 4 C 3 C 1 C 2 C 30 C 28 C 29 C 27 C
W–B W–B Y–B Y Y–R Y–G Y–B Y Y–R Y–G G R W B
1 Ec1 2 Ec1 3 Ec1 4 Ec1 3 AE4 4 AE4 2 AE4 1 AE4
Y–GR Y–P Y–R Y–G G R W B
5 IE 1 IE
3 IM 10 IF
1 2 4 3
D+ D– Spiral Cable D2+ D2–
1 B 2 B 1 A 2 A
P+ P– P2+ P2–
2 1 2 1
+SL –SL +SR –SR
W–B W–B
10
2
W–B
E16
Airbag Squib
(Steering Wheel Pad)
c1(A), c2(B)
Airbag Squib
(Front Passenger' s
Airbag Assembly)
A13
Airbag Sensor
(Front LH)
A28
Airbag Sensor
(Front RH)
E49
Junction
Connector
E1
E2


N21
Curtain Shield Airbag Squib (LH)
ICL+
ICL–
O16
Curtain Shield Airbag Squib (RH)
ICR+
ICR–
GR
12 IM
10 IE
W
16 C
SIL
Y
Y–B
7 A
ICD+
6 A
ICD–
9 D
ICP+
10 D
ICP–
E30(C), N1(A), O1(D)
Airbag Sensor Assembly Center
BBD+
BBD–
BBP+
BBP–
DBE+
DBE–
DSP+
DSP–
CANH
CANL
8 A
15 A
8 D
11 D
11 A
12 A
14 A
13 A
13 C
22 C
G
R
W
B
N7
Side Airbag Sensor (Front LH)
BBL+
BBL–
BCL+
BCL–
O7
Side Airbag Sensor (Front RH)
BBR+
BBR–
BCR+
BCR–
N12
Side Airbag Sensor (Rear LH)
O9
Side Airbag Sensor (Rear RH)
LBE+
LBE–
LSP+
LSP–
Buckle SW
Seat Position Airbag Sensor
N3
Front Seat Inner Belt (Front LH)


GR
GR
E10
DLC3
SIL
CANL
CANH
7
14
6
W
B
W
B
2 G
1 G
2 A
1 A
4 B
10 B
E42(A), E43(B)
E45(D), E62(G)
Junction Connector
A40(A), E41(B)
Junction Connector
2 D
1 D
2 B
1 B
1 A
7 A
W
B
W
B
B
W
14 FE1
13 FE1
41 A
41 B
49 A (*2)
49 B (*1)
CANH
CANL
A24(A), A55(B)
Engine ECU
W
B
W
B


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

SRS (LHD)

System Outline

* The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
  – Driver Airbag
  – Front Passenger Airbag
  – Seat Belt Pretensioner
* The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
  – Side Airbags
  – Curtain Shield Airbags
* The dual–stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat), whether or not the seat belt is fastened (driver seat).

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A13		52 (*1)	E30	C	56 (LHD)	N12		58 (LHD)
		54 (*2)	E41	B	56 (LHD)	N21		58 (LHD)
A24	A	54 (*2)	E42	A	48, 56 (LHD)	O1	D	57 (LHD)
A28		52 (*1)	E43	B	48, 56 (LHD)	O7		58 (LHD)
		54 (*2)	E45	D	48, 56 (LHD)	O8		58 (LHD)
A40	A	57 (LHD)	E49		56 (LHD)	O9		58 (LHD)
A41	A	57 (LHD)	E62	G	48, 56 (LHD)	O16		58 (LHD)
A42	B	57 (LHD)	F1	A	57 (LHD)	Y1		60 (LHD)
A55	B	52 (*1)	N1	A	57 (LHD)	Z1		60 (LHD)
C57		53 (*1)	N3		60 (LHD)	c1	A	57 (LHD)
E10		56 (LHD)	N7		58 (LHD)	c2	B	57 (LHD)
E16		56 (LHD)	N8		58 (LHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3G		
3L		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
IE	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
IF		
IG	33 (LHD)	
IM	32 (LHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
Ec1	74 (LHD)	Instrument Panel Wire and Instrument Panel Wire Assembly (Behind the Glove Box)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NZ1	76 (LHD)	Floor Wire and Front Seat Airbag Assembly LH (Under the Driver's Seat)
OY1	76 (LHD)	Floor No.2 Wire and Front Seat Airbag Assembly RH (Under the Front Passenger's Seat)

: **Ground Points**

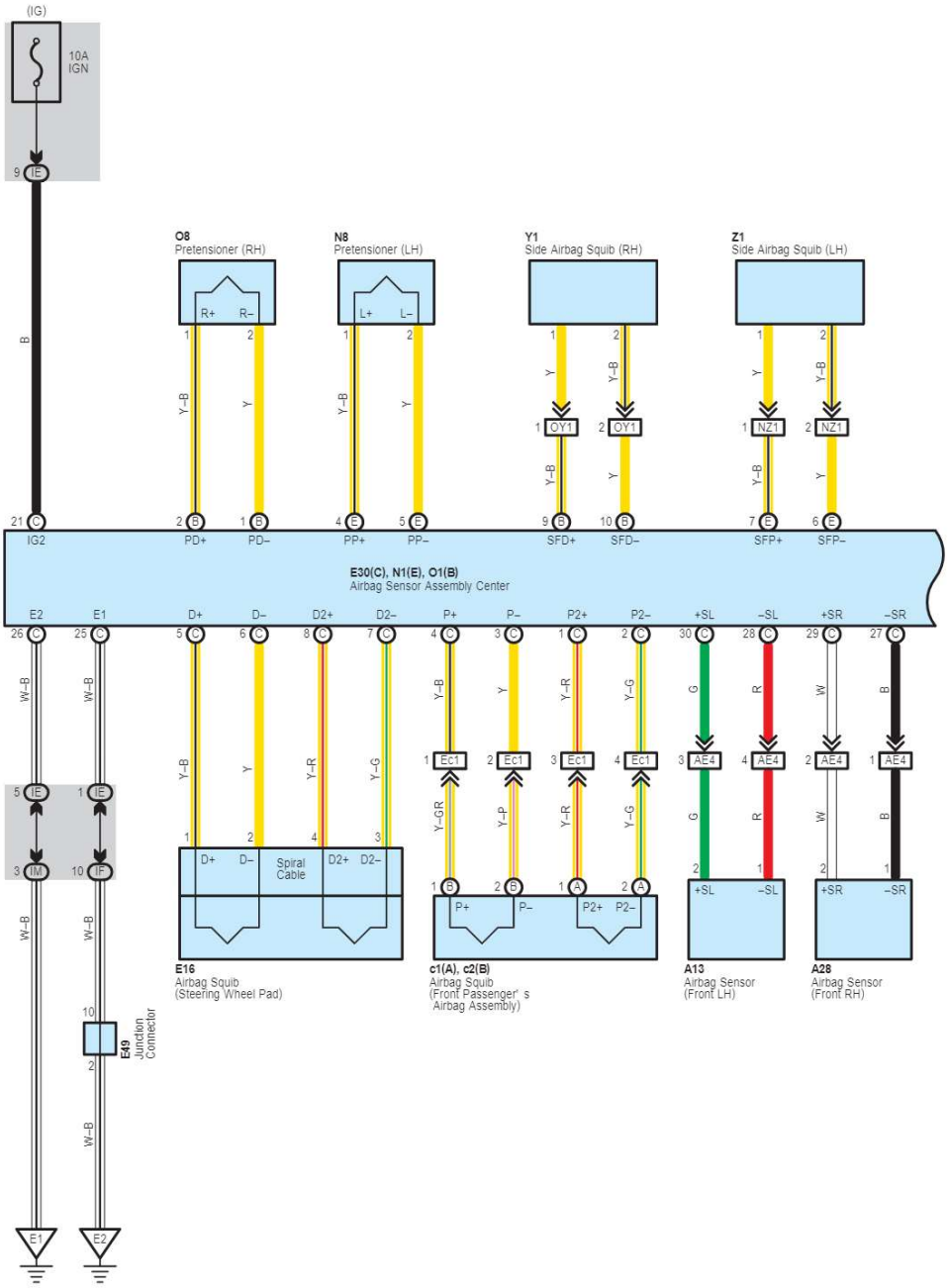
Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
C7	72 (*1)	Rear Left Side of the Cylinder Block
E1	74 (LHD)	Instrument Panel Left
E2	74 (LHD)	Instrument Panel Brace LH
F1	74 (LHD)	Instrument Panel Left

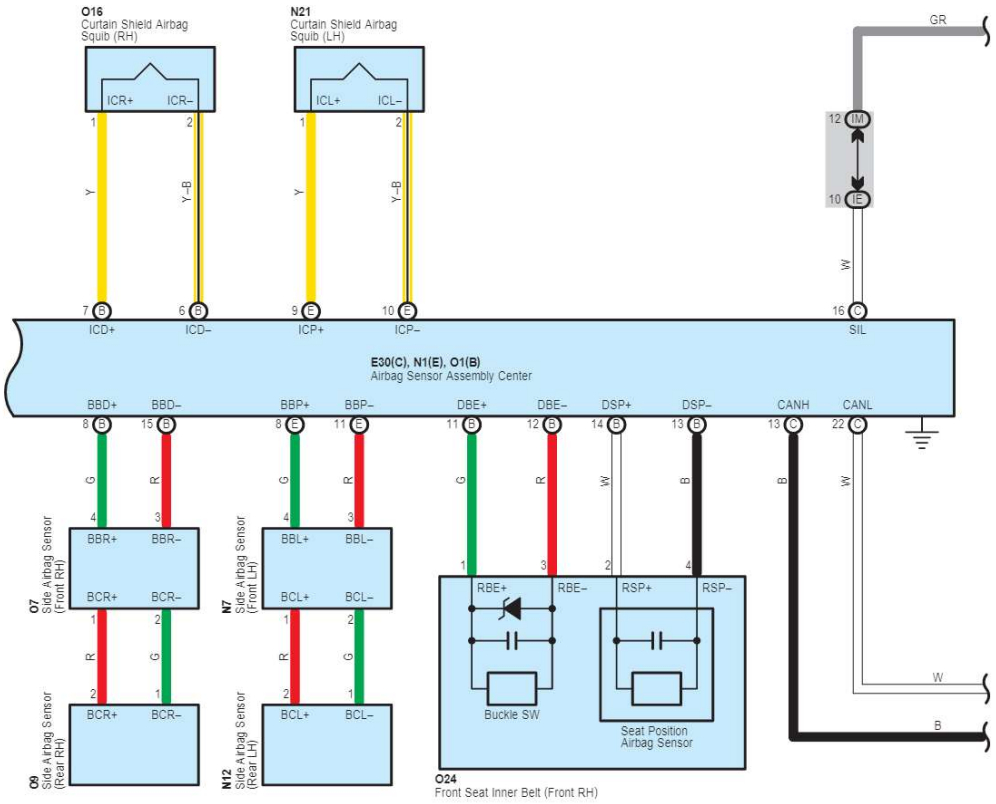
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

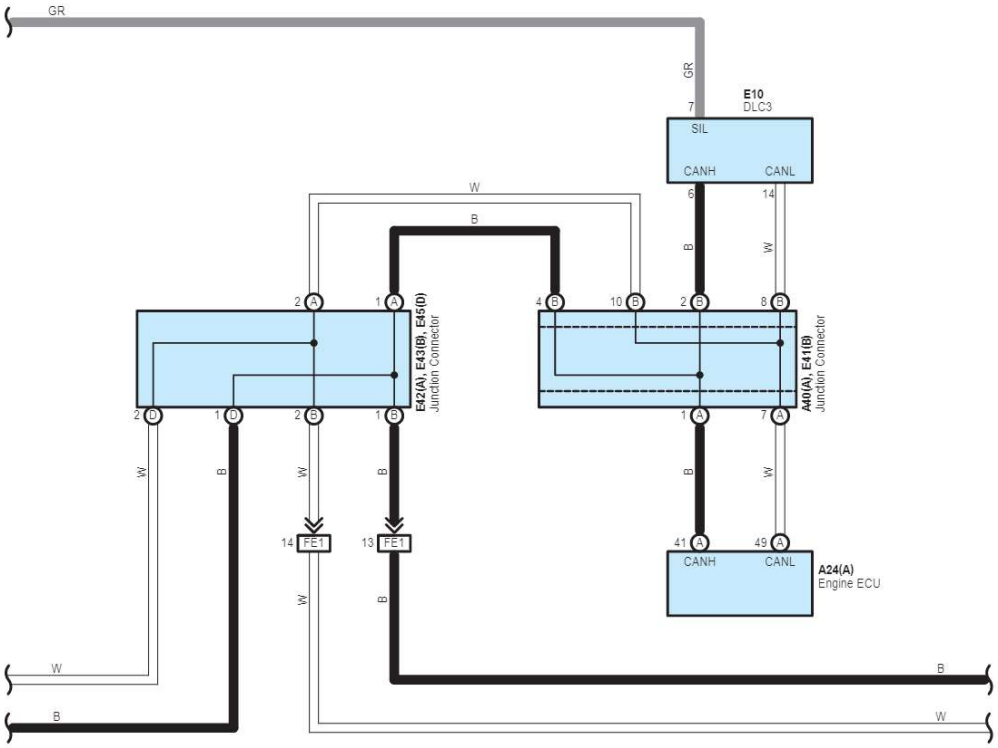
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

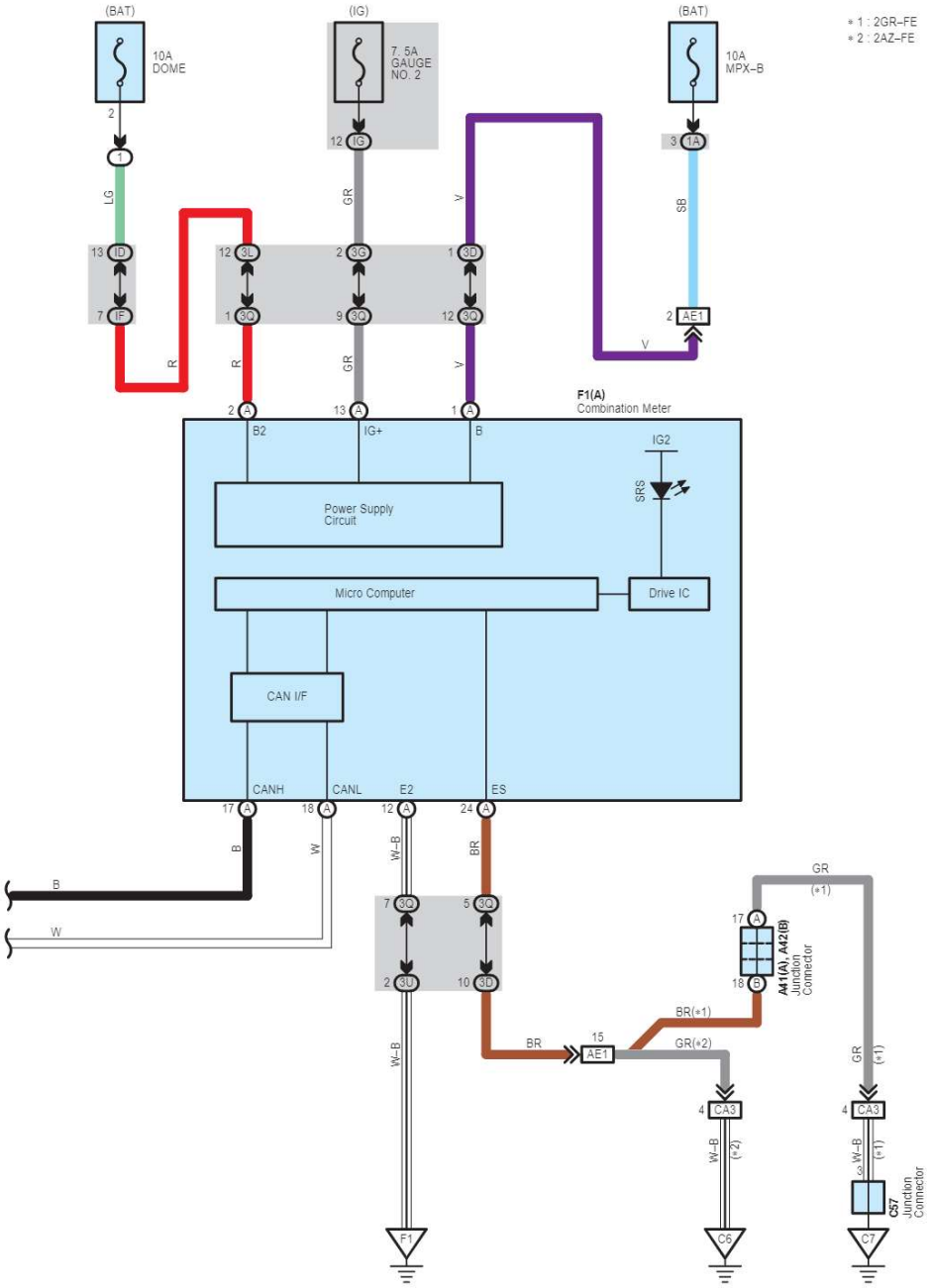
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is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

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


(IG)
10A
IGN
9 IE
B
21 C
IG2
O8
Pretensioner (RH)
R+ R–
1 2
Y–B Y
2 B PD+
1 B PD–
N8
Pretensioner (LH)
L+ L–
1 2
Y–B Y
4 E PP+
5 E PP–
Y1
Side Airbag Squib (RH)
1 2
Y Y–B
1 OY1 2 OY1
Y–B Y
9 B SFD+
10 B SFD–
Z1
Side Airbag Squib (LH)
1 2
Y Y–B
1 NZ1 2 NZ1
Y–B Y
7 E SFP+
6 E SFP–
E30(C), N1(E), O1(B)
Airbag Sensor Assembly Center
E2 E1 D+ D– D2+ D2– P+ P– P2+ P2– +SL –SL +SR –SR
26 C 25 C 5 C 6 C 8 C 7 C 4 C 3 C 1 C 2 C 30 C 28 C 29 C 27 C
W–B W–B Y–B Y Y–R Y–G Y–B Y Y–R Y–G G R W B
1 Ec1 2 Ec1 3 Ec1 4 Ec1 3 AE4 4 AE4 2 AE4 1 AE4
Y–GR Y–P Y–R Y–G G R W B
5 IE 1 IE
3 IM 10 IF
W–B W–B
10
E49
Junction
Connector
2
W–B
E1 E2
1 2 4 3
D+ D– Spiral Cable D2+ D2–
E16
Airbag Squib
(Steering Wheel Pad)
1 B 2 B 1 A 2 A
P+ P– P2+ P2–
c1(A), c2(B)
Airbag Squib
(Front Passenger' s
Airbag Assembly)
2 1
+SL –SL
A13
Airbag Sensor
(Front LH)
2 1
+SR –SR
A28
Airbag Sensor
(Front RH)


O16
Curtain Shield Airbag Squib (RH)
ICR+
ICR–
N21
Curtain Shield Airbag Squib (LH)
ICL+
ICL–
GR
12 IM
10 IE
W
16 C
SIL
Y
Y–B
7 B
ICD+
6 B
ICD–
9 E
ICP+
10 E
ICP–
E30(C), N1(E), O1(B)
Airbag Sensor Assembly Center
BBD+
BBD–
BBP+
BBP–
DBE+
DBE–
DSP+
DSP–
CANH
CANL
8 B
15 B
8 E
11 E
11 B
12 B
14 B
13 B
13 C
22 C
G
R
B
O7
Side Airbag Sensor (Front RH)
BBR+
BBR–
BCR+
BCR–
O9
Side Airbag Sensor (Rear RH)
N7
Side Airbag Sensor (Front LH)
BBL+
BBL–
BCL+
BCL–
N12
Side Airbag Sensor (Rear LH)
RBE+
RBE–
RSP+
RSP–
Buckle SW
Seat Position Airbag Sensor
O24
Front Seat Inner Belt (Front RH)


GR
GR
E10
DLC3
7
SIL
CANH
CANL
6
14
W
B
B
W
2 A
1 A
4 B
10 B
2 B
8 B
E42(A), E43(B), E45(D)
Junction Connector
A40(A), E41(B)
Junction Connector
2 D
1 D
2 B
1 B
1 A
7 A
W
B
W
B
B
W
14 FE1
13 FE1
41 A
49 A
CANH
CANL
A24(A)
Engine ECU
W
B
W
B


(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
F1(A)
Combination Meter
B2
IG+
B
IG2
SRS
Power Supply
Circuit
Micro Computer
Drive IC
CAN I/F
CANH
CANL
E2
ES
A41(A), A42(B)
Junction
Connector
CS7
Junction
Connector
F1
C6
C7

SRS (RHD)

System Outline

* The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
  – Driver Airbag
  – Front Passenger Airbag
  – Seat Belt Pretensioner
* The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
  – Side Airbags
  – Curtain Shield Airbags
* The dual–stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat), whether or not the seat belt is fastened (driver seat).

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A13		62 (*3)	E30	C	66 (RHD)	O1	B	67 (RHD)
		64 (*4)	E41	B	66 (RHD)	O7		68 (RHD)
A24	A	62 (*3)	E42	A	48, 66 (RHD)	O8		68 (RHD)
		64 (*4)	E43	B	48, 66 (RHD)	O9		68 (RHD)
A28		62 (*3)	E45	D	48, 66 (RHD)	O16		68 (RHD)
		64 (*4)	E49		66 (RHD)	O24		70 (RHD)
A40	A	67 (RHD)	F1	A	67 (RHD)	Y1		70 (RHD)
A41	A	67 (RHD)	N1	E	67 (RHD)	Z1		70 (RHD)
A42	B	67 (RHD)	N7		68 (RHD)	c1	A	67 (RHD)
C57		63 (*3)	N8		68 (RHD)	c2	B	67 (RHD)
E10		66 (RHD)	N12		68 (RHD)			
E16		66 (RHD)	N21		68 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3G		
3L		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IE	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IF		
IG	33 (RHD)	
IM	32 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

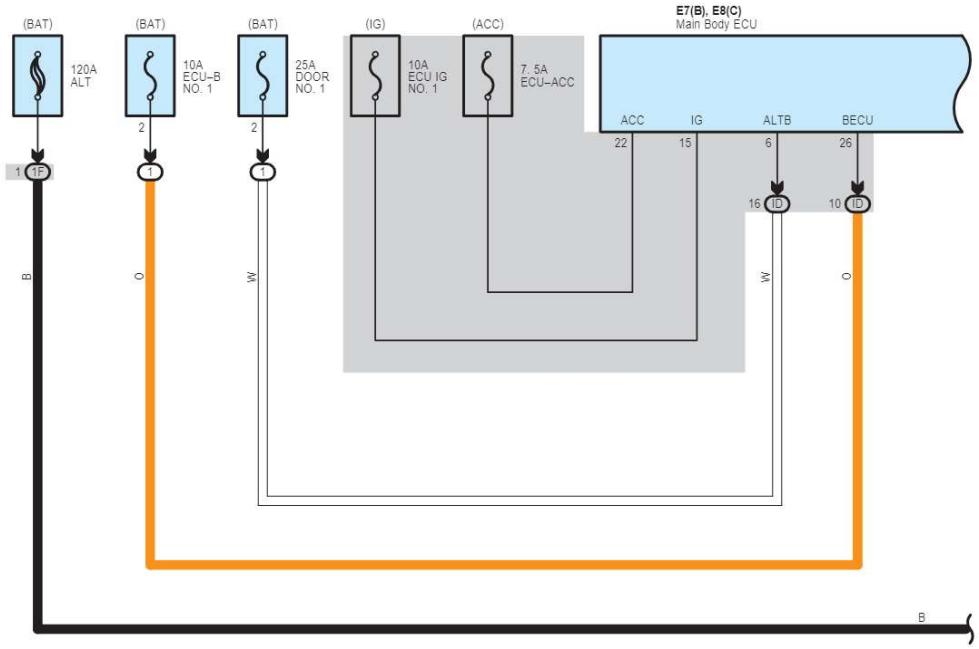
: **Connector Joining Wire Harness and Wire Harness**

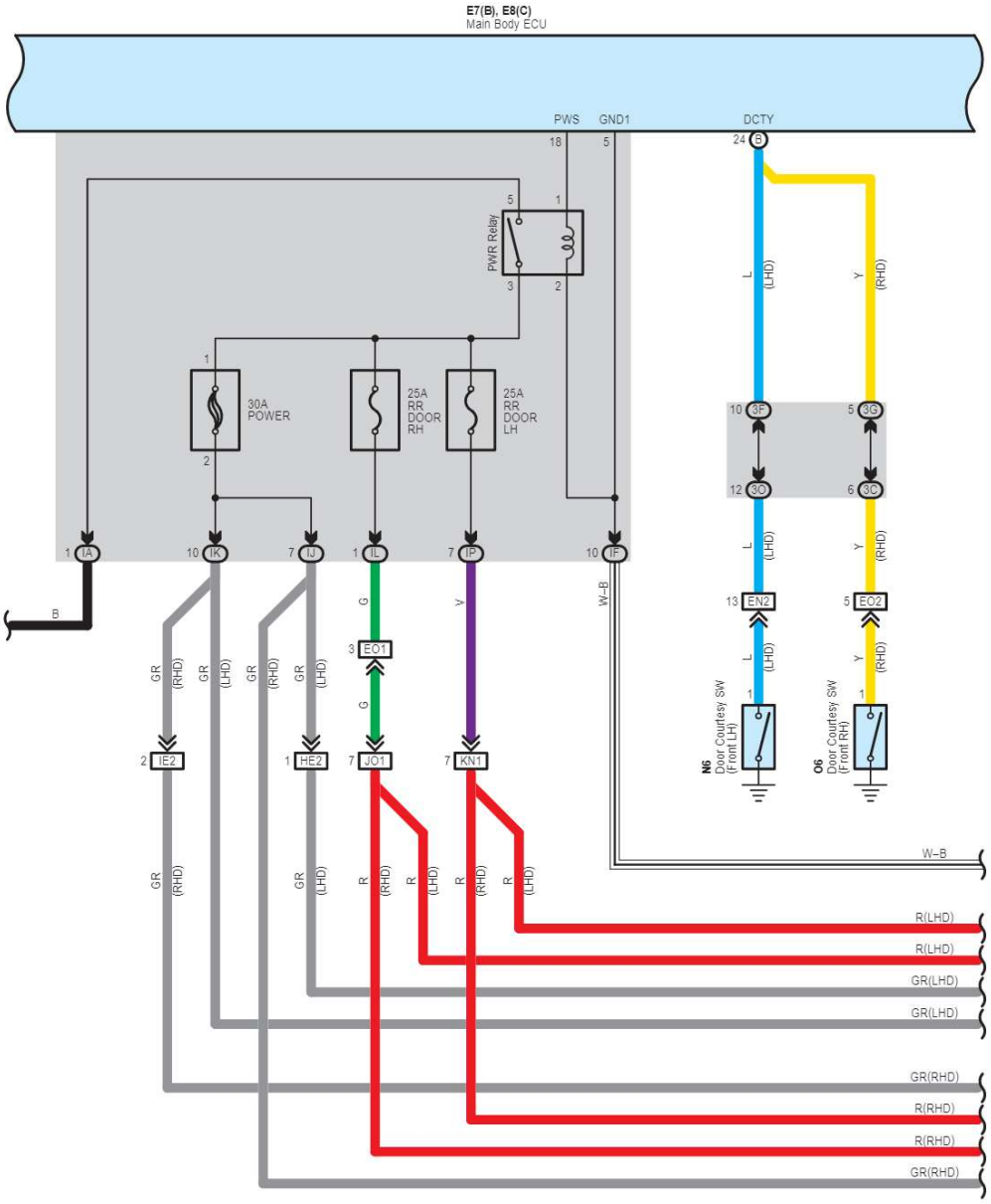
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE4	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	78 (*3)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
Ec1	80 (RHD)	Instrument Panel Wire and Instrument Panel Wire Assembly (Behind the Glove Box)
FE1	80 (RHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
NZ1	82 (RHD)	Floor Wire and Front Seat Airbag Assembly LH (Under the Front Passenger's Seat)
OY1	82 (RHD)	Floor No.2 Wire and Front Seat Airbag Assembly RH (Under the Driver's Seat)

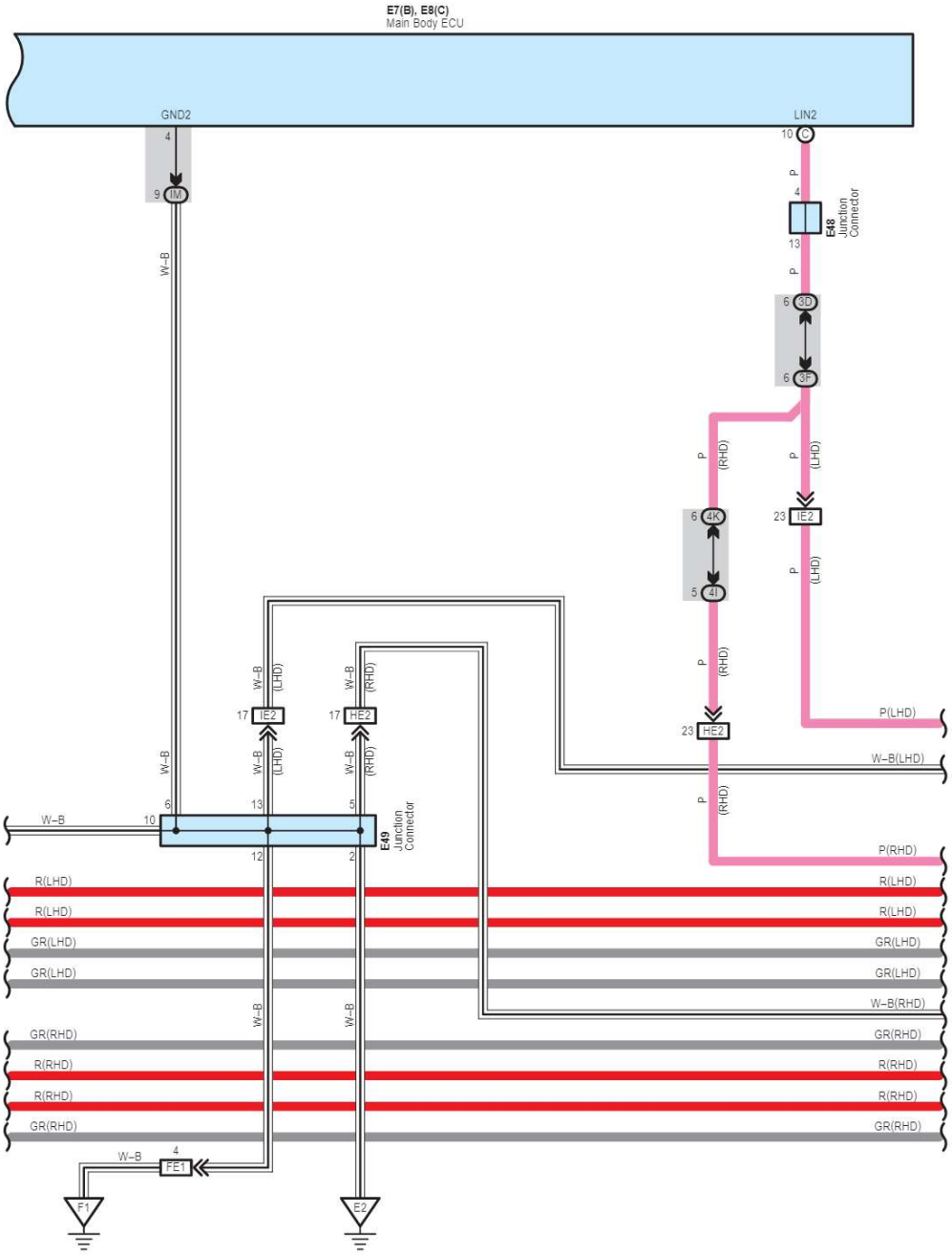
: **Ground Points**

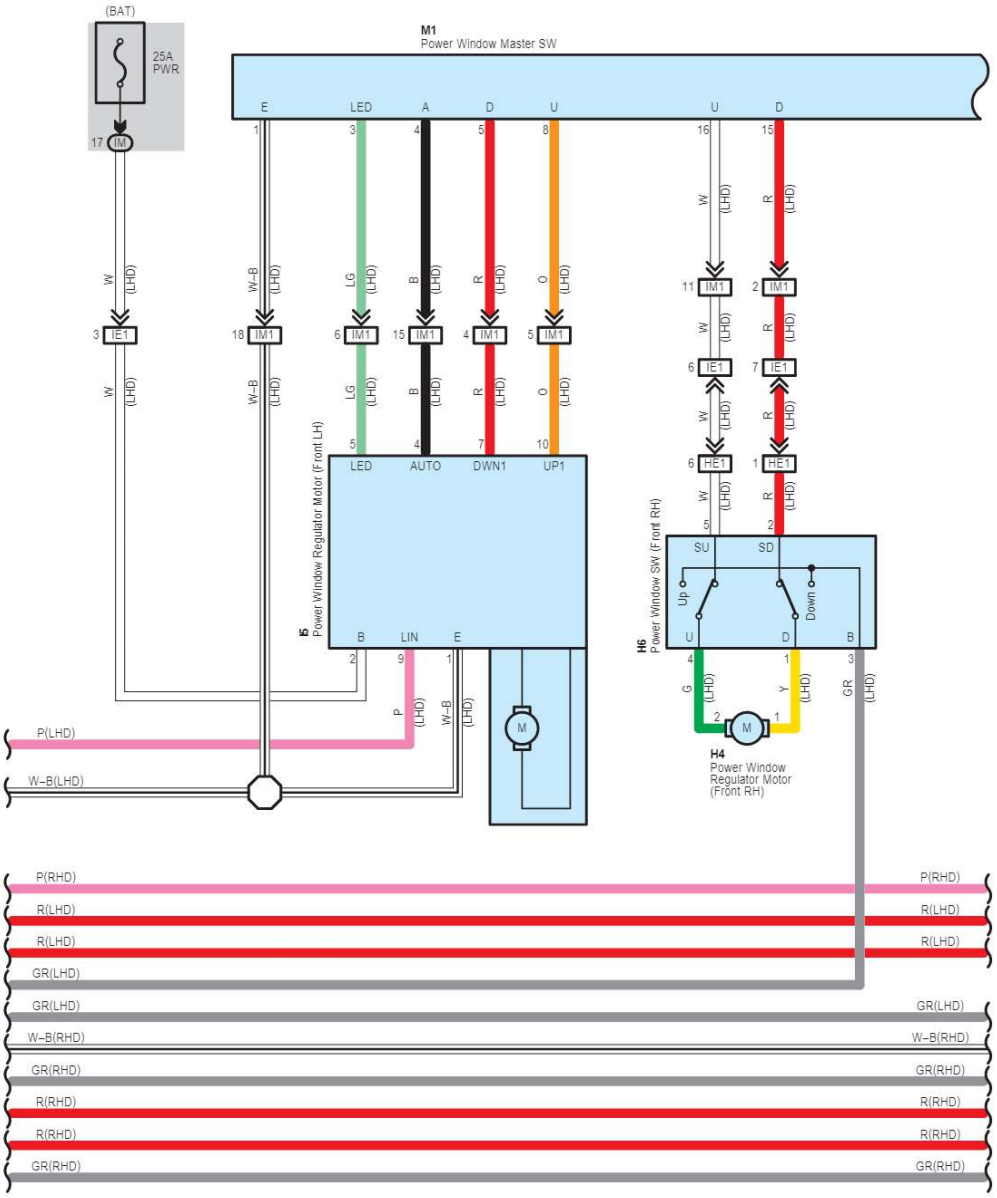
Code	See Page	Ground Points Location
C6	79 (*4)	Left Side of the Cylinder Block
C7	78 (*3)	Rear Left Side of the Cylinder Block
E1	80 (RHD)	Instrument Panel Left
E2	80 (RHD)	Instrument Panel Brace LH
F1	80 (RHD)	Instrument Panel Right

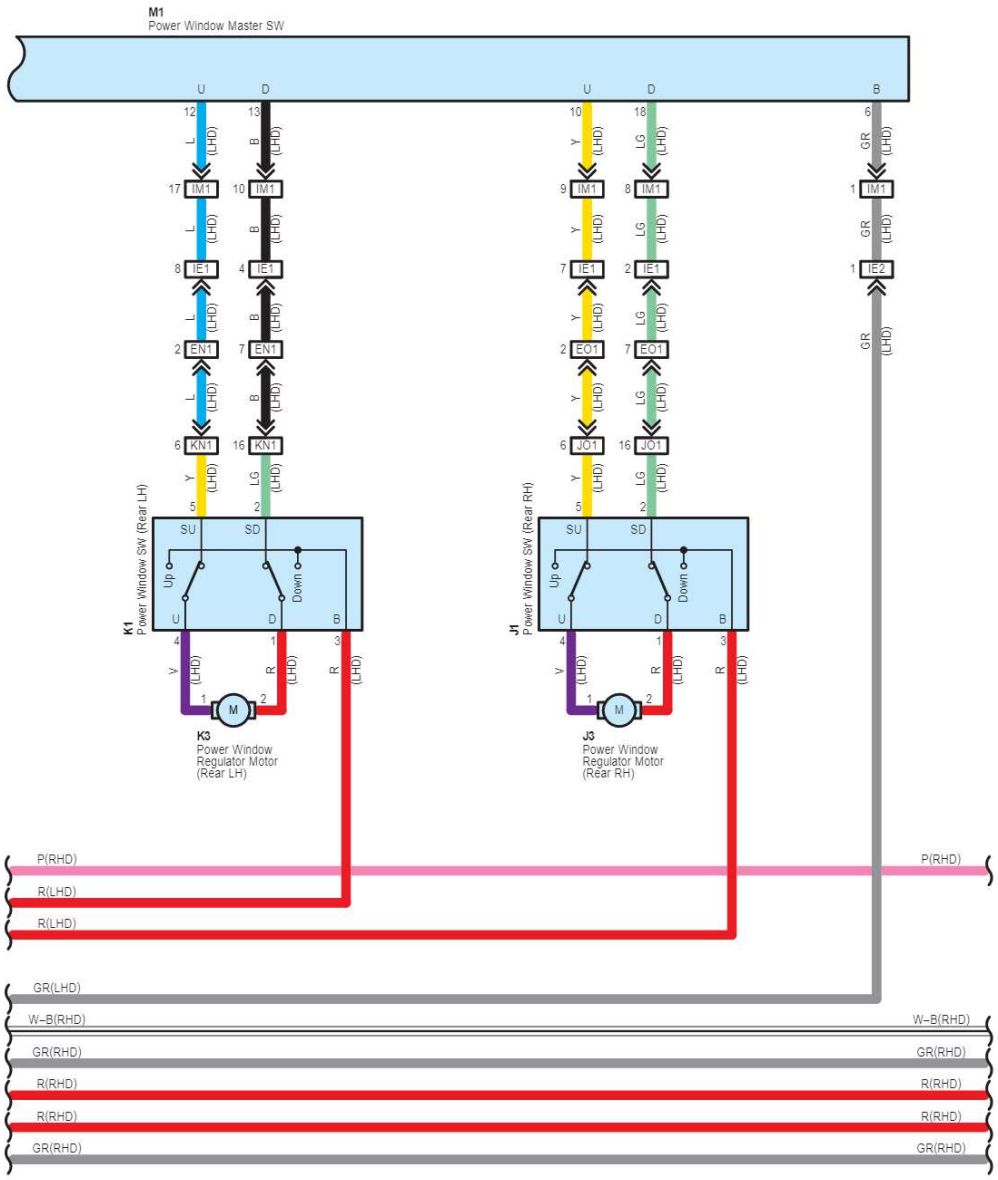
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

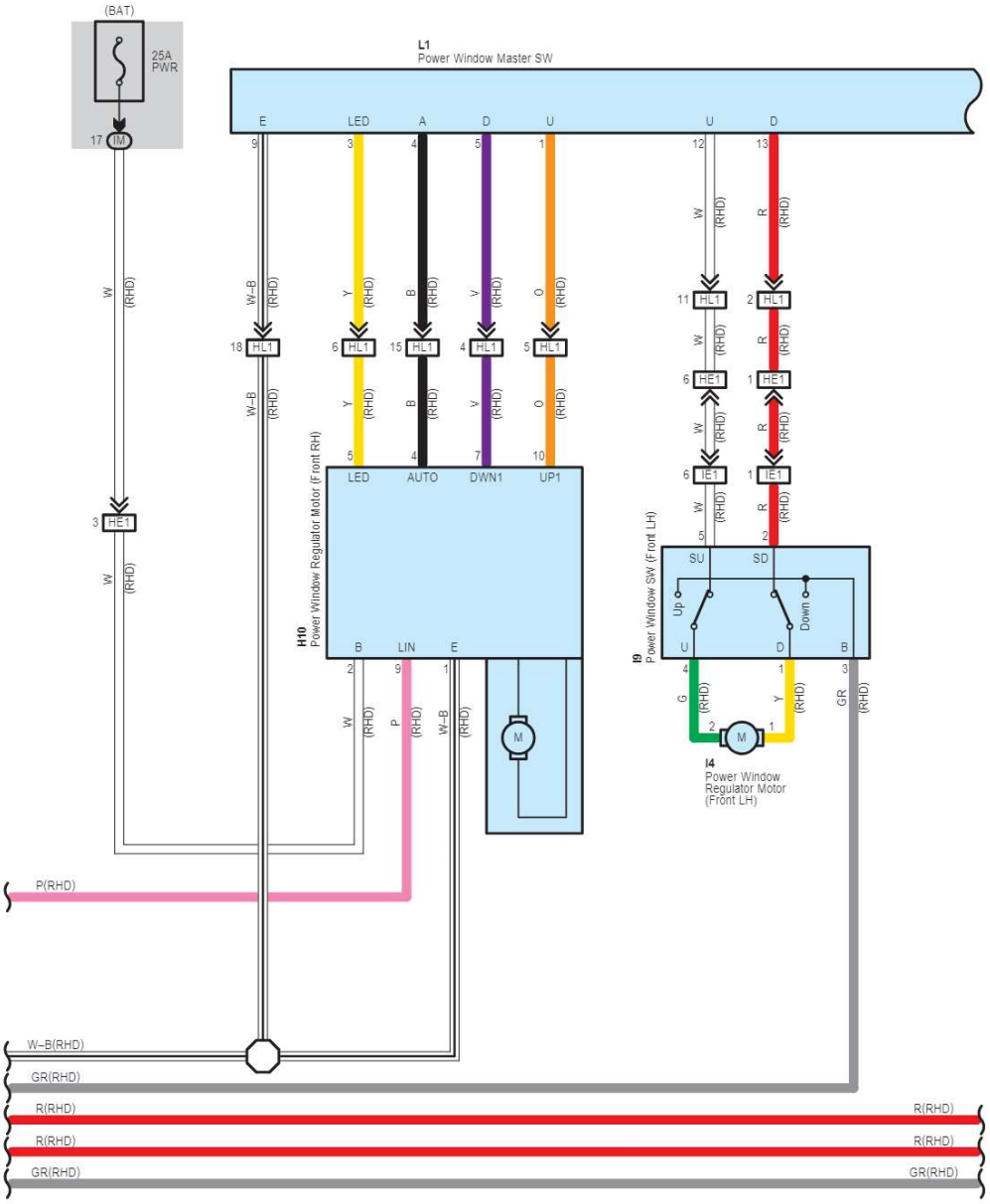

(BAT)
120A
ALT
(BAT)
10A
ECU–B
NO. 1
(BAT)
25A
DOOR
NO. 1
(IG)
10A
ECU IG
NO. 1
(ACC)
7. 5A
ECU–ACC
E7(B), E8(C)
Main Body ECU
ACC
IG
ALTB
BECU
22
15
6
26
1
1F
2
1
2
1
16
1D
10
1D
B
O
W
W
O
B

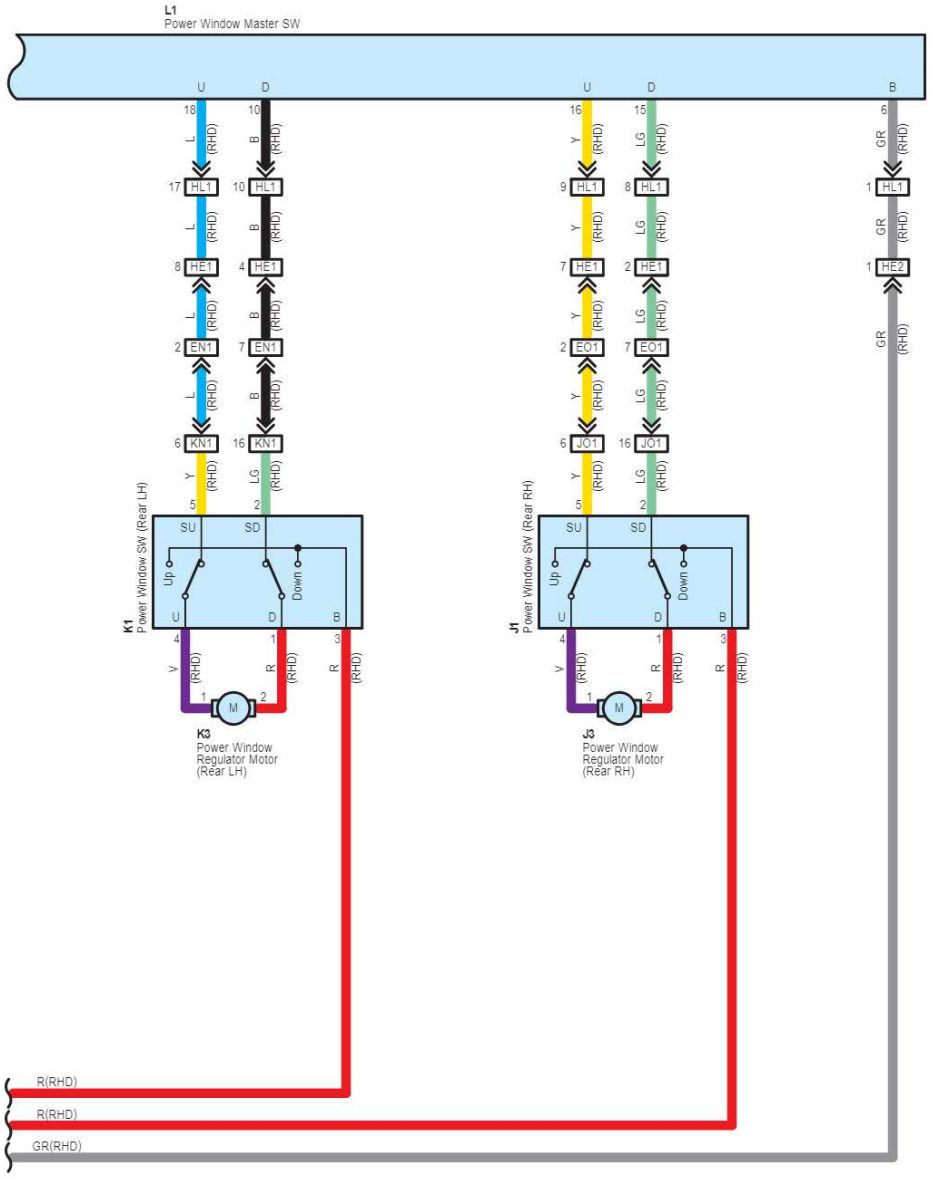

E7(B), E8(C)
Main Body ECU
PWS
GND1
DCTY
18
5
24
B
PWR Relay
5
1
3
2
1
30A
POWER
2
25A
RR
DOOR
RH
25A
RR
DOOR
LH
L
(LHD)
Y
(RHD)
10
9F
5
9G
12
9O
6
9C
13
EN2
5
EO2
N6
Door Courtesy SW
(Front LH)
O6
Door Courtesy SW
(Front RH)
1
IA
10
IK
7
IJ
1
IL
7
IP
10
IF
B
W–B
G
3
EO1
2
IE2
1
HE2
7
JO1
7
KN1
GR
(RHD)
GR
(LHD)
R
(RHD)
R
(LHD)
W–B
R(LHD)
R(LHD)
GR(LHD)
GR(LHD)
GR(RHD)
R(RHD)
R(RHD)
GR(RHD)


E7(B), E8(C)
Main Body ECU
GND2
LIN2
E48
Junction
Connector
E49
Junction
Connector
W-B
P
P(LHD)
P(RHD)
W-B(LHD)
W-B(RHD)
R(LHD)
GR(LHD)
GR(RHD)
R(RHD)
(LHD)
(RHD)
E1
E2


(BAT)
25A
PWR
17 IM
M1
Power Window Master SW
E LED A D U U D
1 3 4 5 8 16 15
W (LHD)
W-B (LHD)
LG (LHD)
B (LHD)
R (LHD)
O (LHD)
3 IE1
18 IM1
6 IM1
15 IM1
4 IM1
5 IM1
11 IM1
2 IM1
6 IE1
7 IE1
6 HE1
1 HE1
5 2
B5
Power Window Regulator Motor (Front LH)
LED AUTO DWN1 UP1
B LIN E
2 9 1
H6
Power Window SW (Front RH)
SU SD
Up
Down
U D B
4 1 3
G (LHD)
Y (LHD)
GR (LHD)
M
H4
Power Window
Regulator Motor
(Front RH)
P(LHD)
W-B(LHD)
P(RHD)
R(LHD)
R(LHD)
GR(LHD)
GR(LHD)
W-B(RHD)
GR(RHD)
R(RHD)
R(RHD)
GR(RHD)


M1
Power Window Master SW
U
D
B
IM1
IE1
EN1
KN1
IE2
EO1
JO1
K1
Power Window SW (Rear LH)
J1
Power Window SW (Rear RH)
SU
SD
Up
Down
K3
Power Window Regulator Motor (Rear LH)
J3
Power Window Regulator Motor (Rear RH)
M
P(RHD)
R(LHD)
GR(LHD)
W-B(RHD)
GR(RHD)
R(RHD)


(BAT)
25A
PWR
17 IM
L1
Power Window Master SW
E LED A D U U D
W (RHD)
W-B (RHD)
Y (RHD)
B (RHD)
V (RHD)
O (RHD)
W (RHD)
R (RHD)
18 HL1
6 HL1
15 HL1
4 HL1
5 HL1
11 HL1
2 HL1
6 HE1
1 HE1
6 IE1
1 IE1
3 HE1
H10
Power Window Regulator Motor (Front RH)
LED AUTO DWN1 UP1
B LIN E
W (RHD)
P (RHD)
W-B (RHD)
M
I9
Power Window SW (Front LH)
SU SD
Up
Down
U D B
G (RHD)
Y (RHD)
GR (RHD)
M
I4
Power Window
Regulator Motor
(Front LH)
P(RHD)
W-B(RHD)
GR(RHD)
R(RHD)
R(RHD)
GR(RHD)


L1
Power Window Master SW
U
D
U
D
B
HL1
HE1
EN1
KN1
HE2
EO1
JO1
K1
Power Window SW (Rear LH)
J1
Power Window SW (Rear RH)
SU
SD
Up
Down
K3
Power Window Regulator Motor (Rear LH)
J3
Power Window Regulator Motor (Rear RH)
R(RHD)
R(RHD)
GR(RHD)

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 (Driver's Window)

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.

3. Jam Protection Function (Driver's Window)

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 (LHD)	H6	59 (LHD)	K1	59 (LHD)
		66 (RHD)	H10	69 (RHD)		69 (RHD)
E8	C	56 (LHD)	I4	69 (RHD)	K3	59 (LHD)
		66 (RHD)	I5	59 (LHD)		69 (RHD)
E48		56 (LHD)	I9	69 (RHD)	L1	69 (RHD)
		66 (RHD)	J1	59 (LHD)	M1	59 (LHD)
E49		56 (LHD)		69 (RHD)	N6	58 (LHD)
		66 (RHD)	J3	59 (LHD)	O6	68 (RHD)
H4		59 (LHD)		69 (RHD)		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

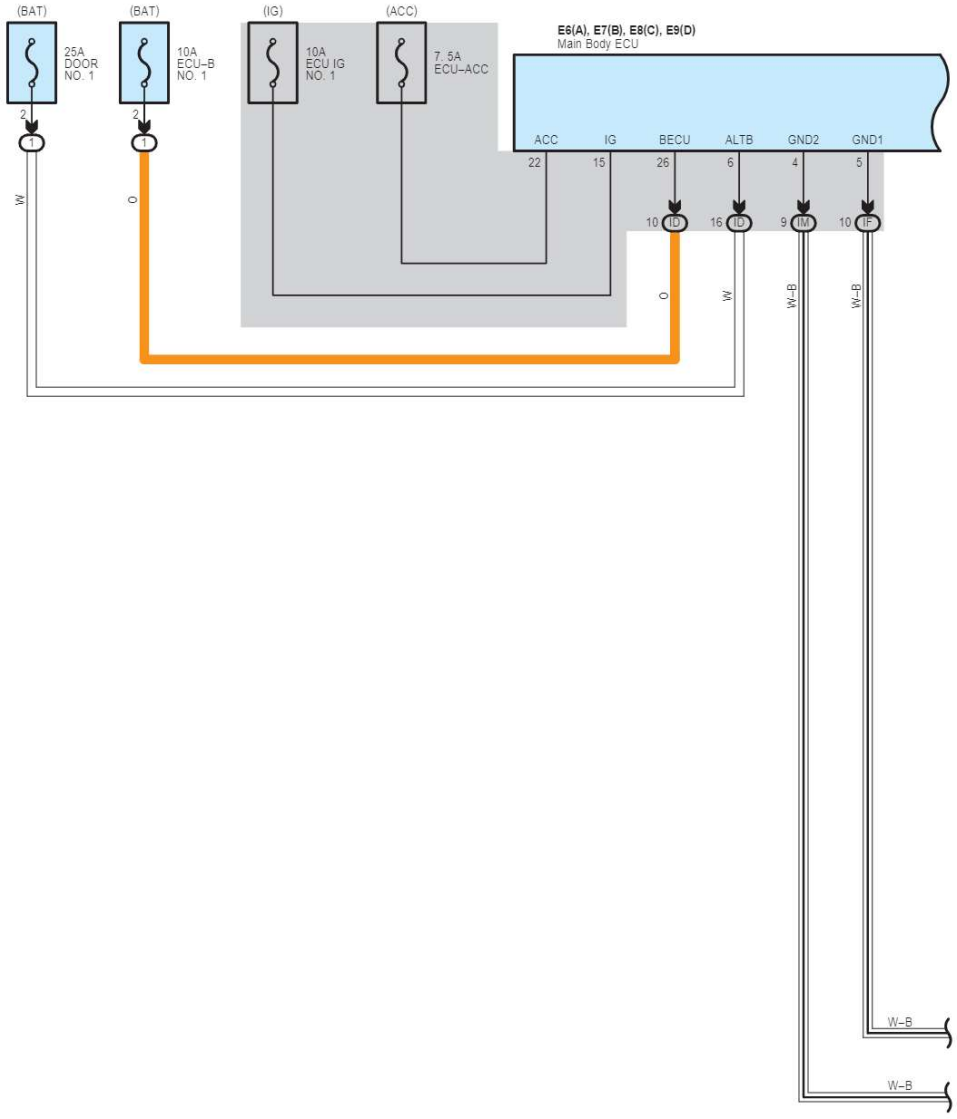
Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3F		
3G		
3O		
4I	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4K		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IJ	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IK	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

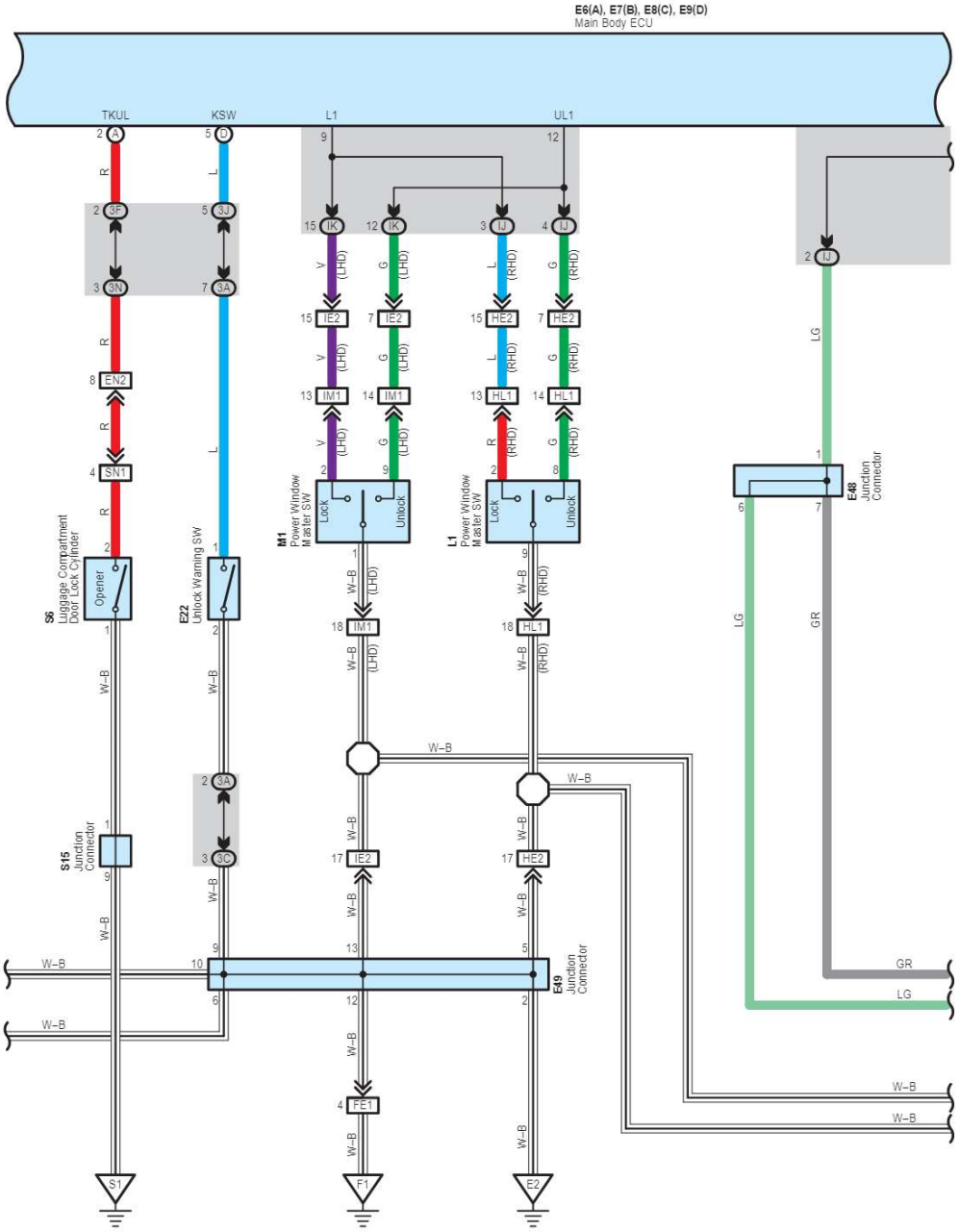
: Connector Joining Wire Harness and Wire Harness

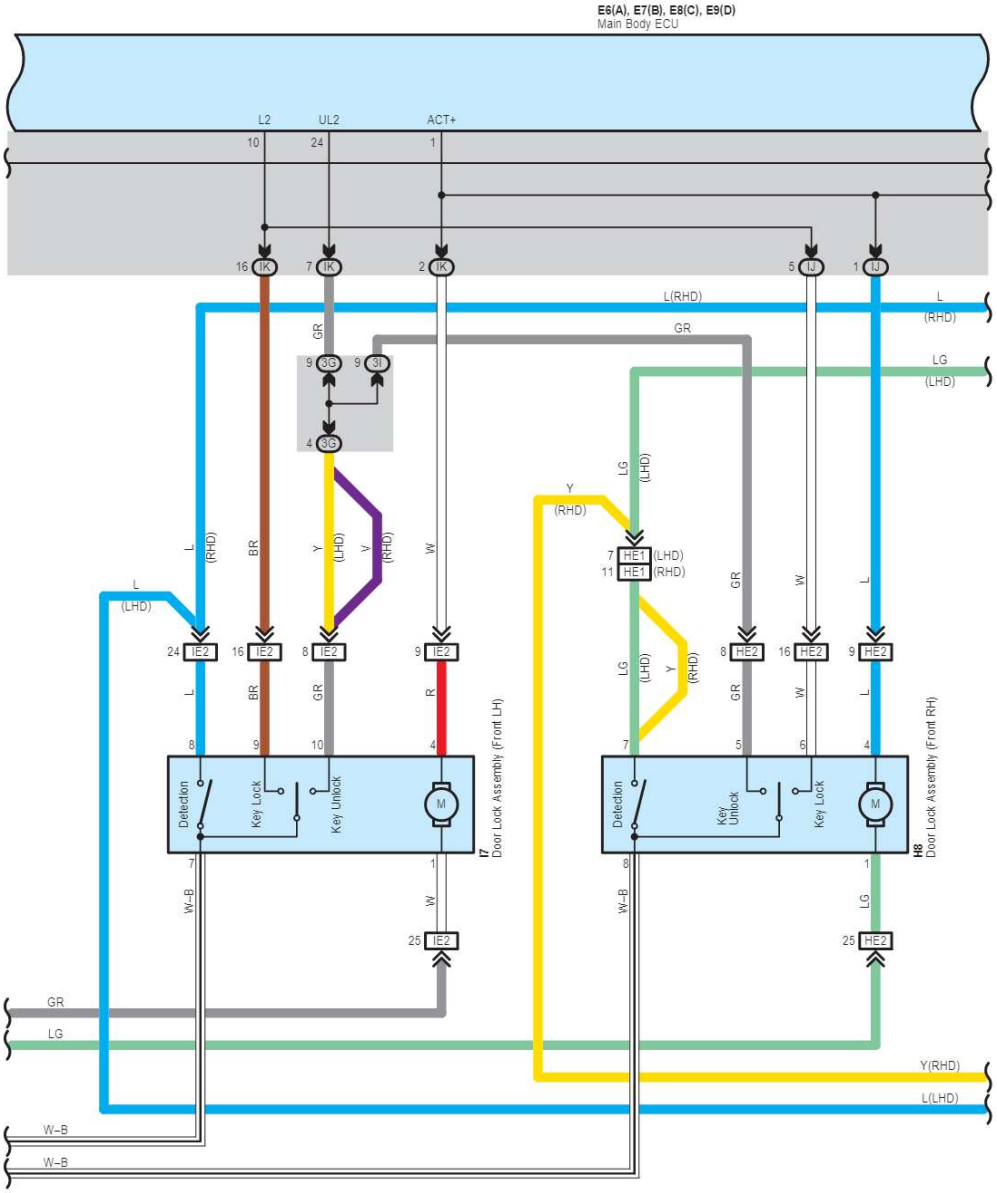
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EN2	74 (LHD)	
EO1	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EO2	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE1	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
HE2	74 (LHD)	
	80 (RHD)	
HL1	81 (RHD)	Front Door RH Wire and Front Door RH No.2 Wire (Inside of the Front Door RH)
IE1	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
IE2	74 (LHD)	
	80 (RHD)	
IM1	75 (LHD)	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
JO1	75 (LHD)	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
	81 (RHD)	
KN1	75 (LHD)	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
	81 (RHD)	

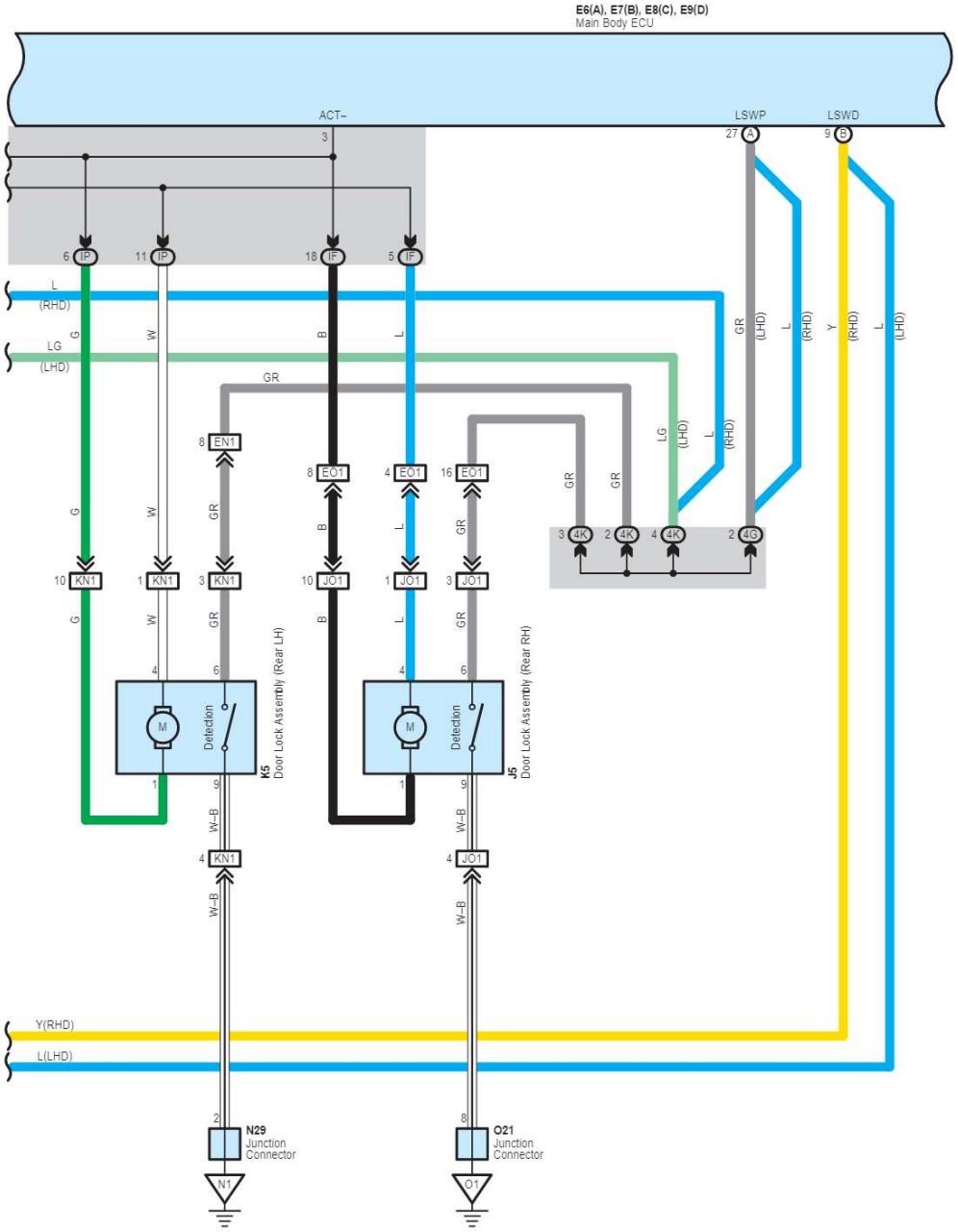
▽ : **Ground Points**

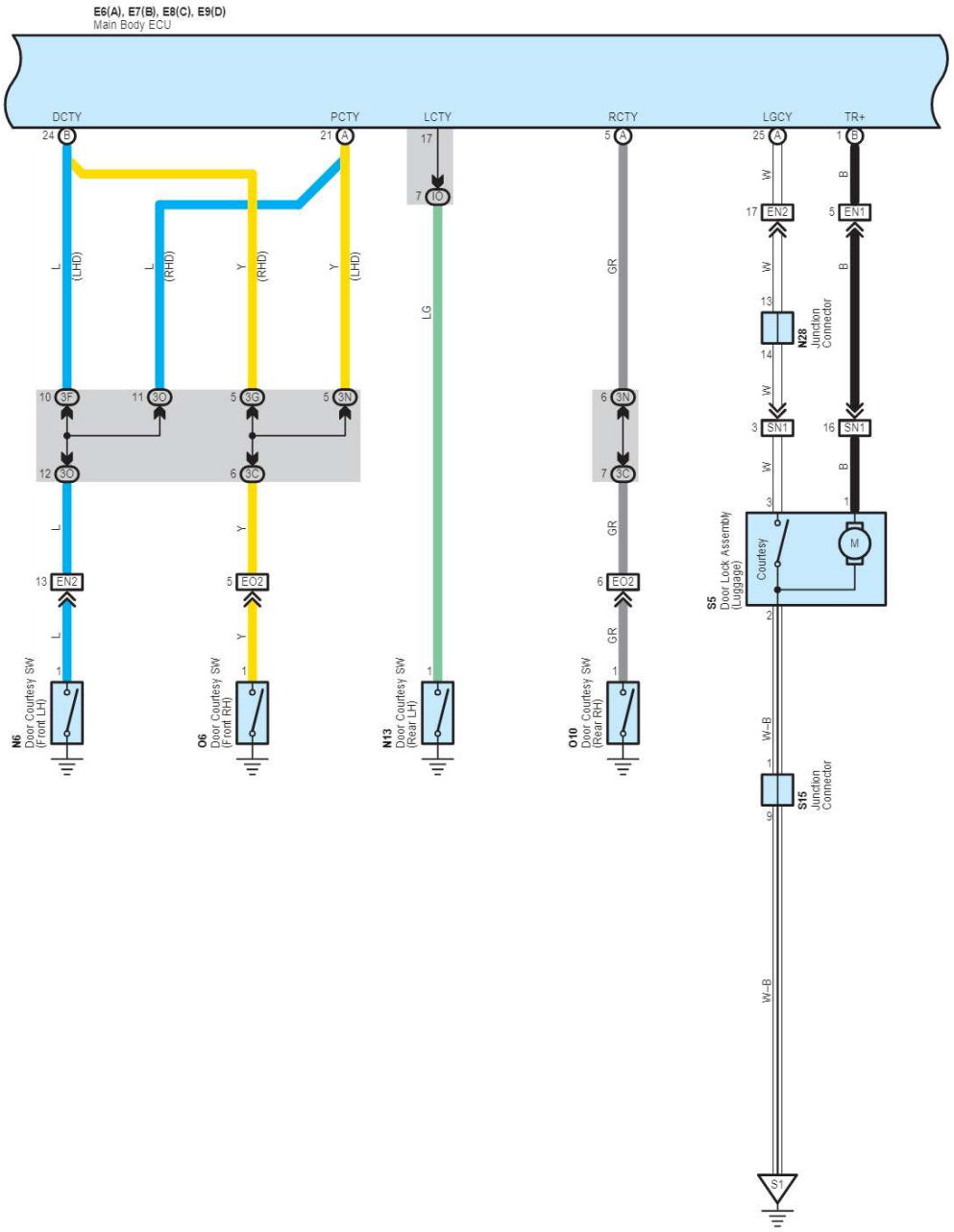
Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

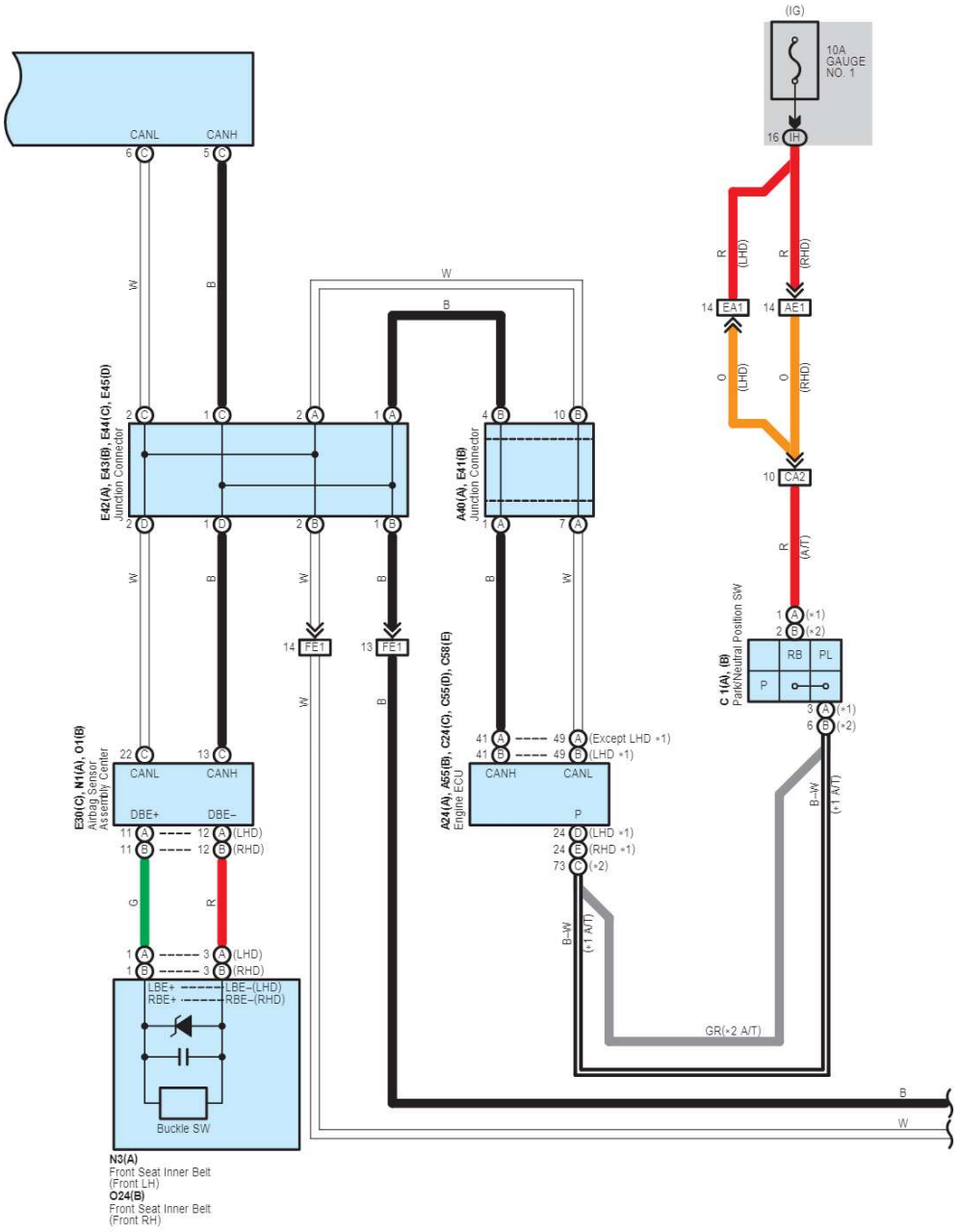

(BAT)
(BAT)
(IG)
(ACC)
25A
DOOR
NO. 1
10A
ECU–B
NO. 1
10A
ECU IG
NO. 1
7. 5A
ECU–ACC
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACC
IG
BECU
ALTB
GND2
GND1
22
15
26
6
4
5
10 ID
16 ID
9 IM
10 IF
W
O
O
W
W–B
W–B
W–B
W–B

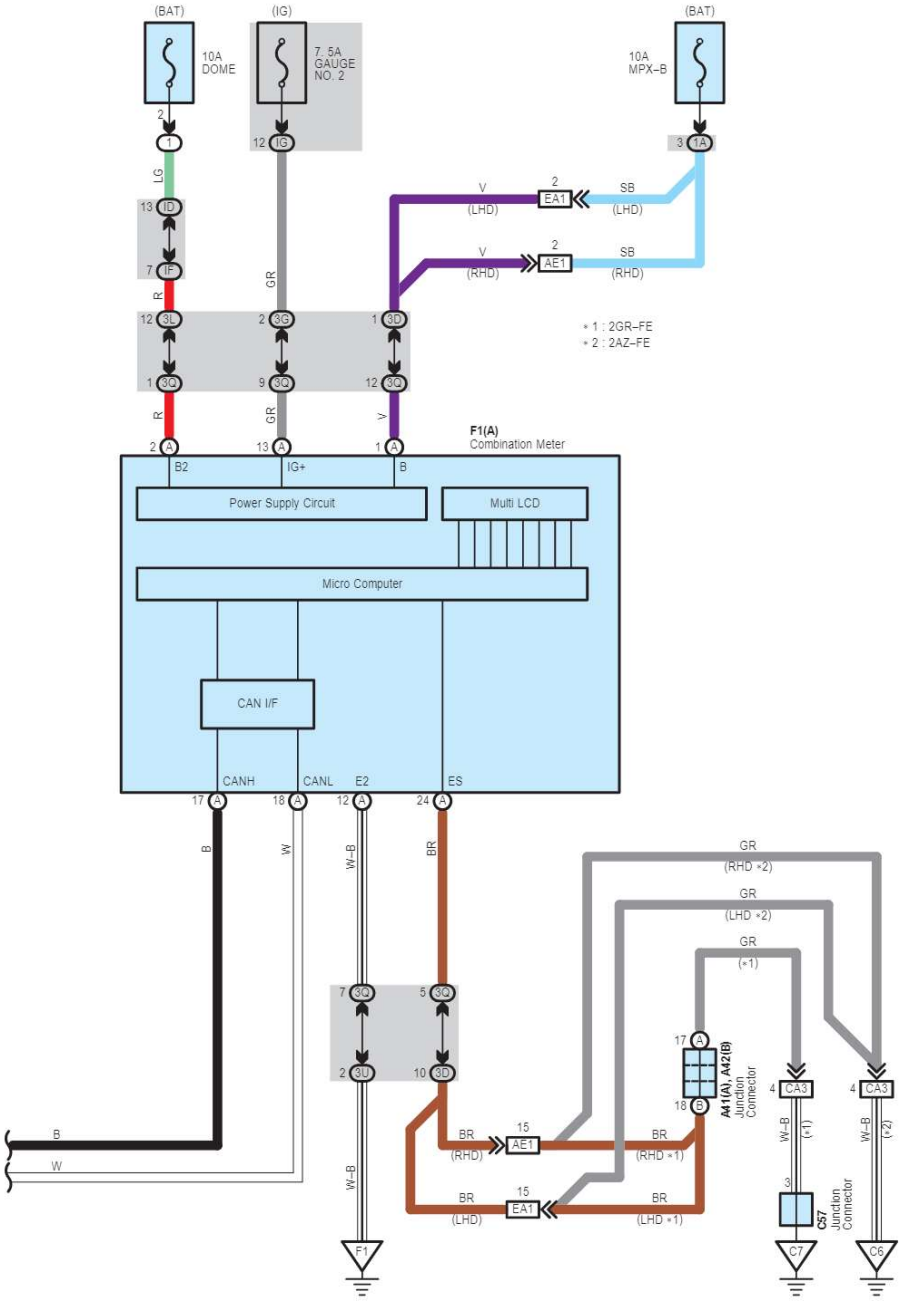

E6(A), E7(B), E8(C), E9(D)
Main Body ECU
TKUL
KSW
L1
UL1
S6
Luggage Compartment Door Lock Cylinder
Opener
E22
Unlock Warning SW
M1
Power Window Master SW
Lock
Unlock
L1
Power Window Master SW
Lock
Unlock
E46
Junction Connector
S15
Junction Connector
E49
Junction Connector
W-B
LG
GR
(LHD)
(RHD)
S1
F1
E2


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
L2
UL2
ACT+
10
24
1
16 1K
7 1K
2 1K
5 1J
1 1J
L(RHD)
L (RHD)
GR
LG (LHD)
9 3G
9 3I
4 3G
LG (LHD)
Y (RHD)
7 HE1 (LHD)
11 HE1 (RHD)
L (RHD)
BR
Y (LHD)
Y (RHD)
W
GR
W
L
L (LHD)
24 IE2
16 IE2
8 IE2
9 IE2
8 HE2
16 HE2
9 HE2
LG (LHD)
Y (RHD)
GR
W
L
8
9
10
4
7
5
6
4
Detection
Key Lock
Key Unlock
M
I7
Door Lock Assembly (Front LH)
Detection
Key Unlock
Key Lock
M
H8
Door Lock Assembly (Front RH)
7
1
8
1
W-B
W
W-B
LG
25 IE2
25 HE2
GR
LG
Y(RHD)
L(LHD)
W-B
W-B


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACT–
LSWP
LSWD
3
27 A
9 B
6 IP
11 IP
18 IF
5 IF
L (RHD)
LG (LHD)
GR
8 EN1
8 EO1
4 EO1
16 EO1
3 4K
2 4K
4 4K
2 4G
10 KN1
1 KN1
3 KN1
10 JO1
1 JO1
3 JO1
M
Detection
K5 Door Lock Assembly (Rear LH)
J5 Door Lock Assembly (Rear RH)
W–B
4 KN1
4 JO1
Y(RHD)
L(LHD)
2
8
N29 Junction Connector
O21 Junction Connector
N1
O1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
DCTY
PCTY
LCTY
RCTY
LGCY
TR+
24 B
21 A
17
7 IO
5 A
25 A
1 B
L (LHD)
L (RHD)
Y (RHD)
Y (LHD)
LG
GR
W
B
17 EN2
5 EN1
13
14
N28
Junction Connector
10 3F
11 3O
5 3G
5 3N
6 3N
12 3O
6 3C
7 3C
3 SN1
16 SN1
S5
Door Lock Assembly (Luggage)
Courtesy
M
13 EN2
5 EO2
6 EO2
N6
Door Courtesy SW (Front LH)
O6
Door Courtesy SW (Front RH)
N13
Door Courtesy SW (Rear LH)
O10
Door Courtesy SW (Rear RH)
W-B
S15
Junction Connector
S1


(IG)
10A
GAUGE
NO. 1
16 IH
CANL
CANH
6 C
5 C
W
B
R (LHD)
R (RHD)
14 EA1
14 AE1
O (LHD)
O (RHD)
10 CA2
R (A/T)
E42(A), E43(B), E44(C), E45(D)
Junction Connector
A40(A), E41(B)
Junction Connector
1 A (*1)
2 B (*2)
C 1(A), (B)
Park/Neutral Position SW
RB
PL
P
3 A (*1)
6 B (*2)
14 FE1
13 FE1
E30(C), N1(A), O1(B)
Airbag Sensor
Assembly Center
DBE+
DBE–
11 A (LHD)
11 B (RHD)
12 A (LHD)
12 B (RHD)
G
R
1 A (LHD)
1 B (RHD)
3 A (LHD)
3 B (RHD)
LBE+
RBE+
LBE–(LHD)
RBE–(RHD)
Buckle SW
A24(A), A55(B), C24(C), C55(D), C58(E)
Engine ECU
41 A ---- 49 A (Except LHD *1)
41 B ---- 49 B (LHD *1)
CANH
CANL
P
24 D (LHD *1)
24 E (RHD *1)
73 C (*2)
B–W
(*1 A/T)
GR(*2 A/T)
B
W
N3(A)
Front Seat Inner Belt
(Front LH)
O24(B)
Front Seat Inner Belt
(Front RH)


(BAT)
10A DOME
(IG)
7. 5A GAUGE NO. 2
(BAT)
10A MPX–B
2 1
12 1G
3 1A
LG
13 1D
7 1F
R
12 3L
2 3G
1 3D
1 3Q
9 3Q
12 3Q
GR
V
V (LHD)
2 EA1
SB (LHD)
V (RHD)
2 AE1
SB (RHD)
* 1 : 2GR–FE
* 2 : 2AZ–FE
R
GR
V
2 A
13 A
1 A
F1(A)
Combination Meter
B2
IG+
B
Power Supply Circuit
Multi LCD
Micro Computer
CAN I/F
CANH
CANL
E2
ES
17 A
18 A
12 A
24 A
B
W
W–B
BR
GR (RHD *2)
GR (LHD *2)
GR (*1)
7 3Q
5 3Q
2 3U
10 3D
17 A
18 B
A41(A), A42(B) Junction Connector
4 CA3
4 CA3
W–B (*1)
W–B (*2)
3
C57 Junction Connector
BR (RHD)
15 AE1
BR (RHD *1)
BR (LHD)
15 EA1
BR (LHD *1)
B
W
W–B
F1
C7
C6

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.

○ : Parts Location

Code		See Page
A24	A	54 (*2)
		62 (*3)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A55	B	52 (*1)
C1	A	53 (*1)
		63 (*3)
	B	55 (*2)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C55	D	53 (*1)
C57		53 (*1)
		63 (*3)
C58	E	63 (*3)
E6	A	56 (LHD)
		66 (RHD)
E7	B	56 (LHD)
		66 (RHD)
E8	C	56 (LHD)
		66 (RHD)
E9	D	56 (LHD)
		66 (RHD)

Code		See Page
E22		56 (LHD)
		66 (RHD)
E30	C	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E44	C	48, 56 (LHD)
		48, 66 (RHD)
E45	D	48, 56 (LHD)
		48, 66 (RHD)
E48		56 (LHD)
		66 (RHD)
E49		56 (LHD)
		66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
H8		59 (LHD)
		69 (RHD)
I7		59 (LHD)
		69 (RHD)
J5		59 (LHD)
		69 (RHD)
K5		59 (LHD)
		69 (RHD)

Code		See Page
L1		69 (RHD)
M1		59 (LHD)
N1	A	57 (LHD)
N3	A	60 (LHD)
N6		58 (LHD)
		68 (RHD)
N13		58 (LHD)
		68 (RHD)
N28		58 (LHD)
		68 (RHD)
N29		58 (LHD)
		68 (RHD)
O1	B	67 (RHD)
O6		58 (LHD)
		68 (RHD)
O10		58 (LHD)
		68 (RHD)
O21		58 (LHD)
		68 (RHD)
O24	B	70 (RHD)
S5		59 (LHD)
		69 (RHD)
S6		59 (LHD)
		69 (RHD)
S15		59 (LHD)
		69 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3F		
3G		
3I		
3J		
3L		
3N		
3O		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4G	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4K		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IJ	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IK	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

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

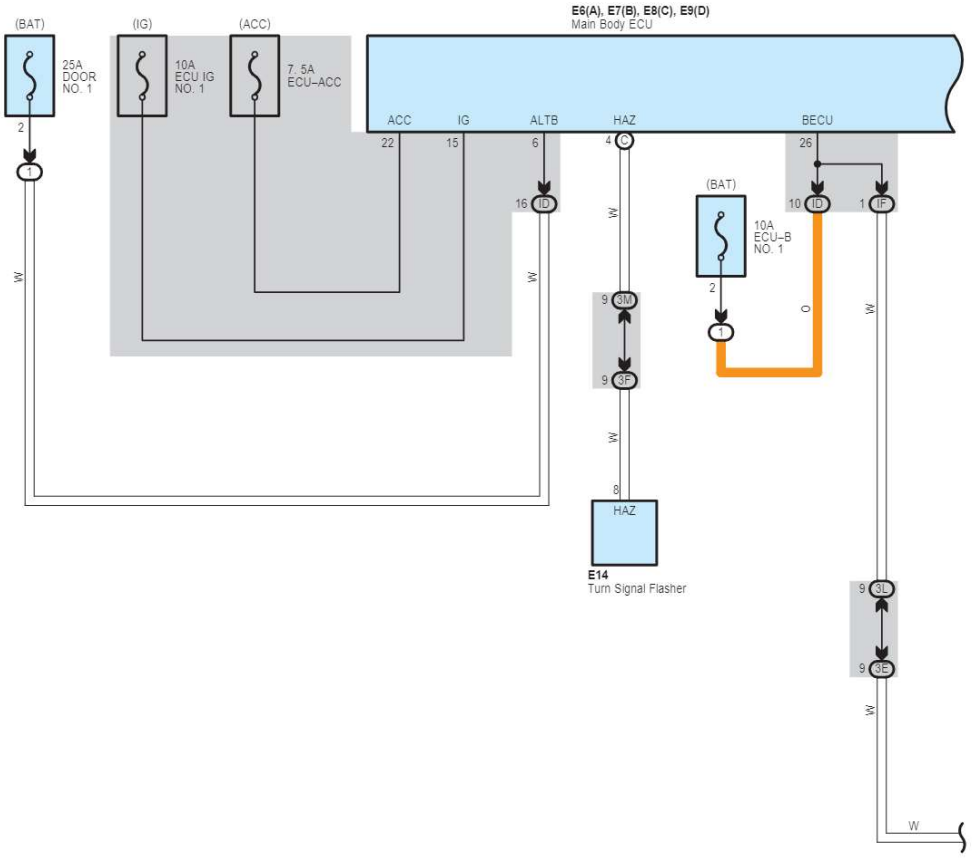
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA2	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
CA3	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EN2	74 (LHD)	
	80 (RHD)	
EO1	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE1	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
HE2	74 (LHD)	
	80 (RHD)	
HL1	81 (RHD)	Front Door RH Wire and Front Door RH No.2 Wire (Inside of the Front Door RH)
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
IM1	75 (LHD)	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
JO1	75 (LHD)	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
	81 (RHD)	
KN1	75 (LHD)	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
	81 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

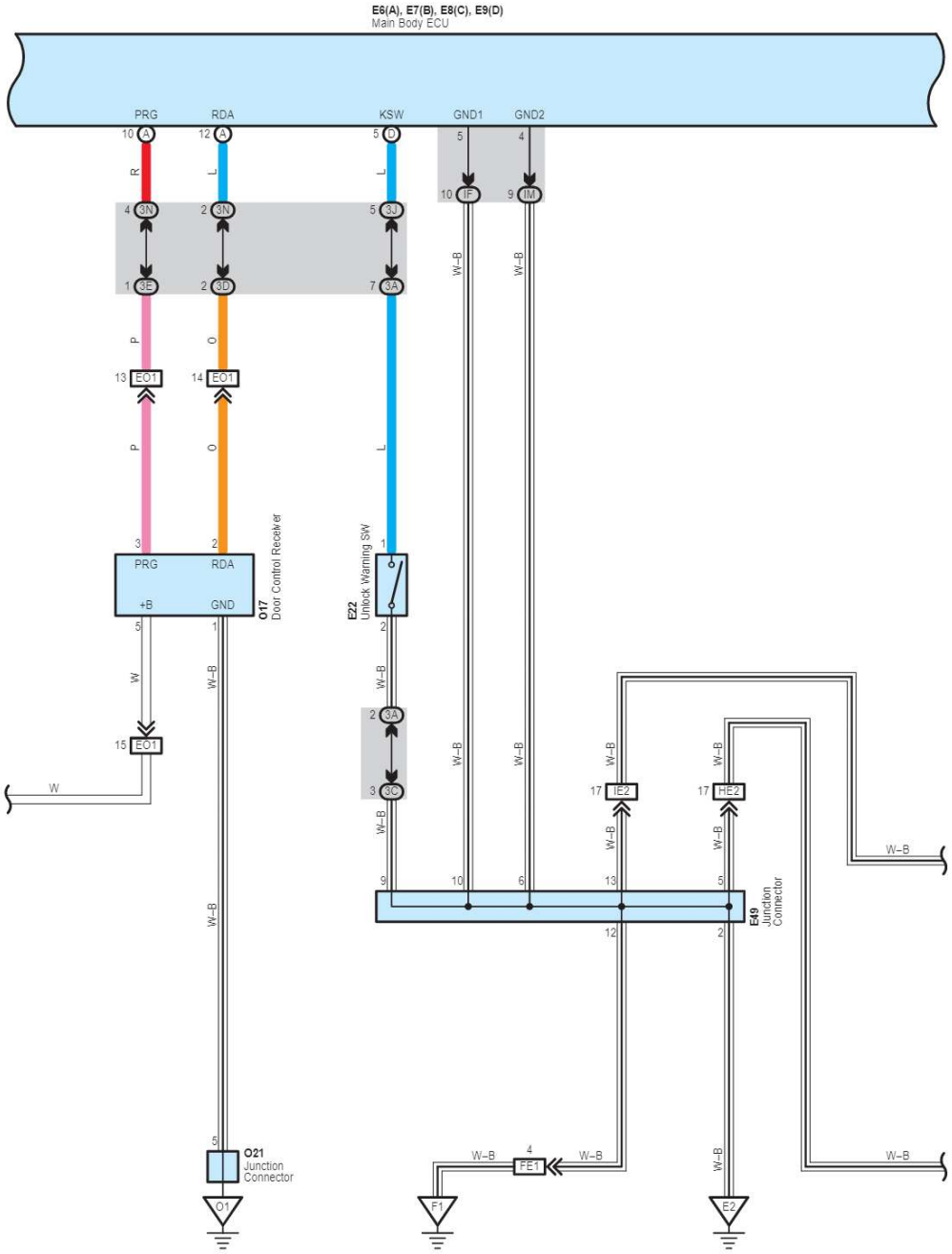
: **Ground Points**

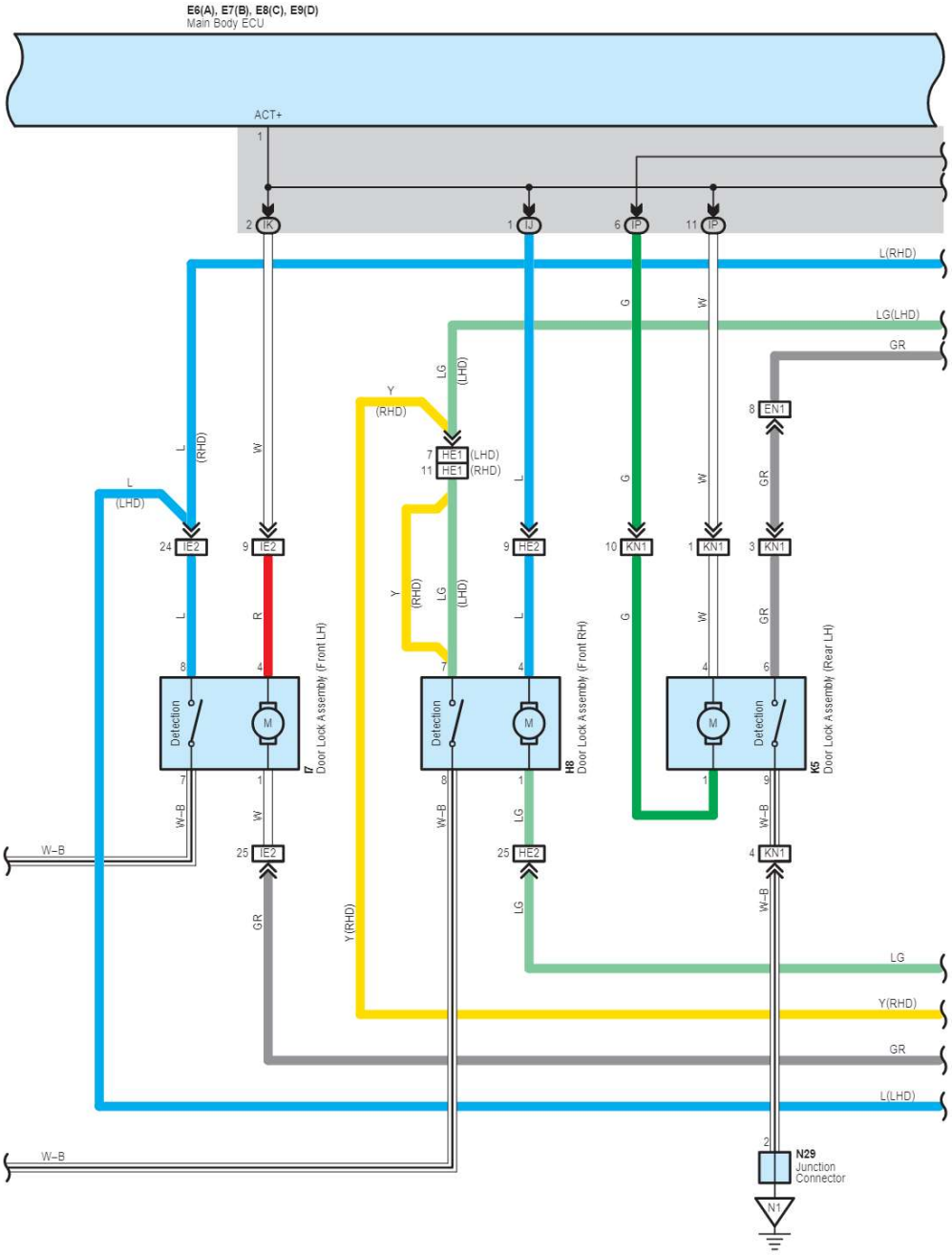
Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	
O1	75 (LHD)	Quarter Panel RH
	81 (RHD)	
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

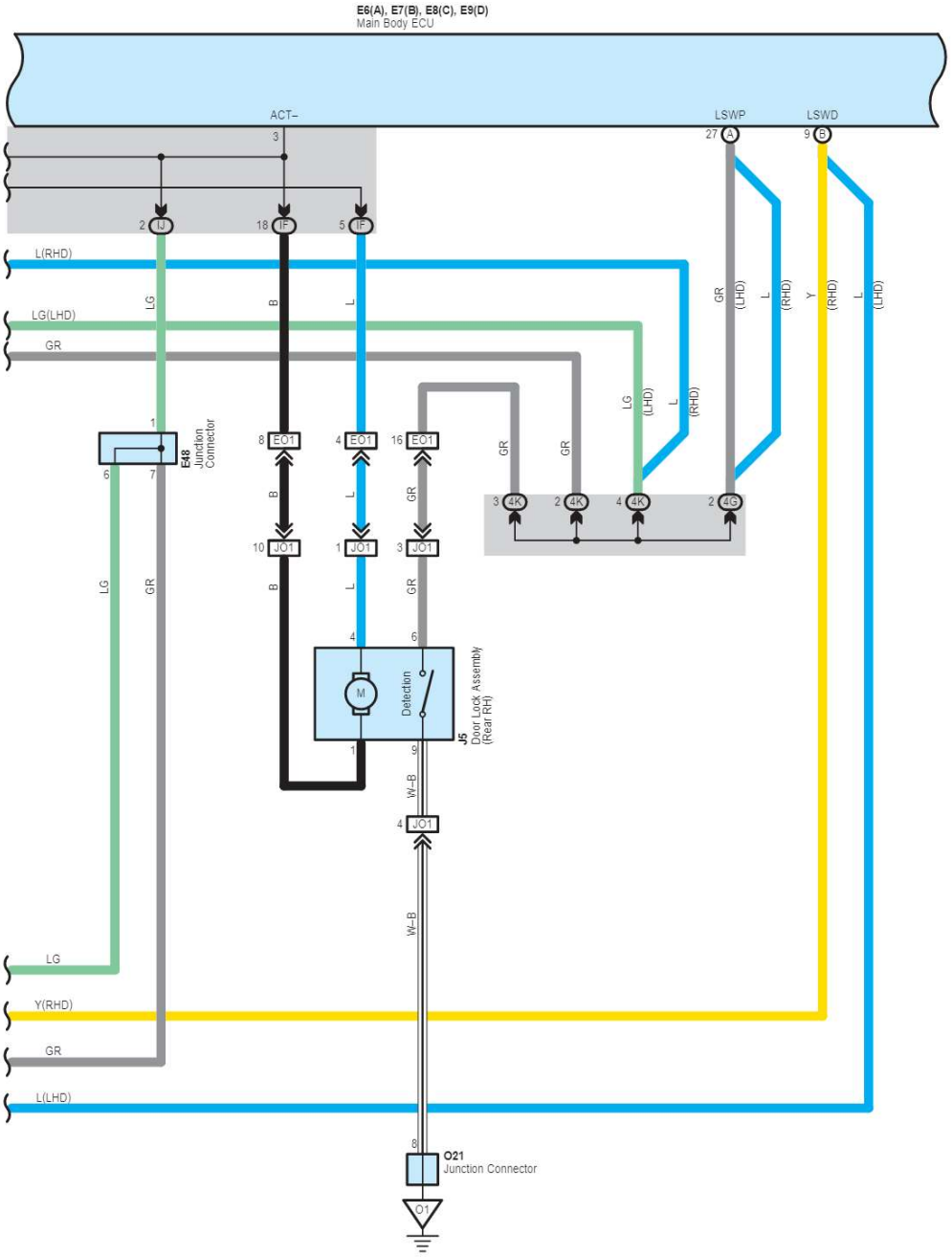
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

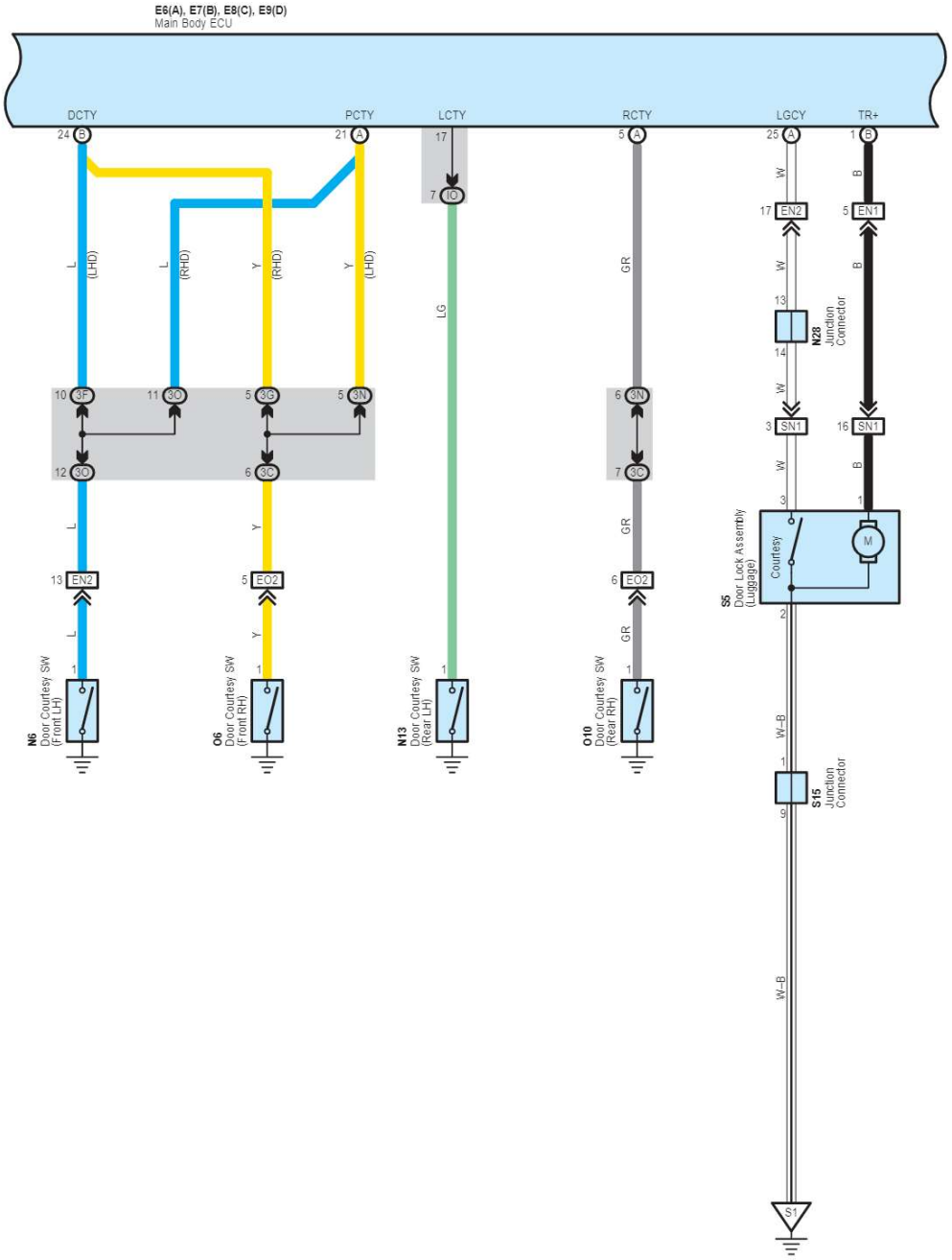
Wireless Door Lock Control

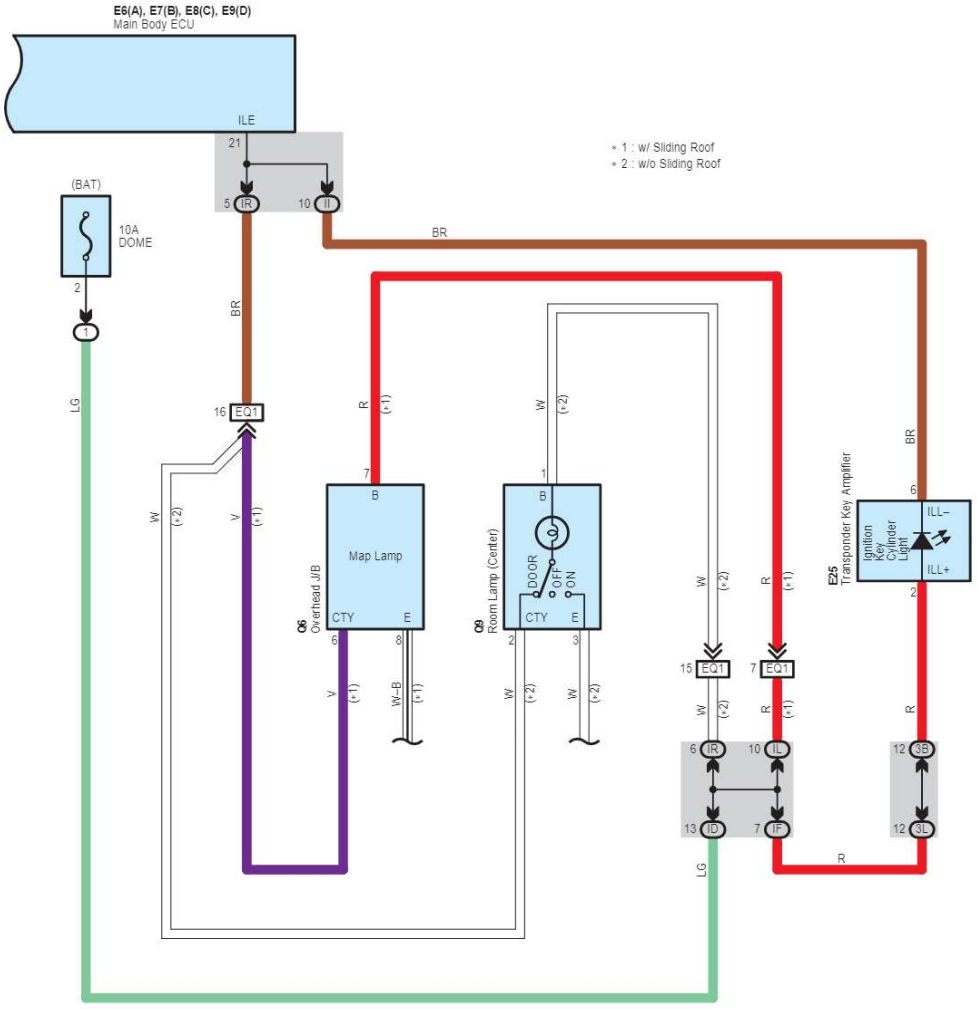



E6(A), E7(B), E8(C), E9(D)
Main Body ECU
PRG
RDA
KSW
GND1
GND2
10 A
12 A
5 D
5
4
10 1F
9 1M
R
L
L
W–B
W–B
4 3N
2 3N
5 3J
1 3E
2 3D
7 3A
P
O
L
13 EO1
14 EO1
P
O
3
2
1
PRG
RDA
+B
GND
O17
Door Control Receiver
E22
Unlock Warning SW
5
1
2
W
W–B
W–B
15 EO1
2 3A
3 3C
W
W–B
W–B
W–B
W–B
17 IE2
17 HE2
W–B
W–B
W–B
9
10
6
13
5
E49
Junction Connector
12
2
W–B
5
O21
Junction Connector
O1
W–B
4
FE1
W–B
W–B
W–B
W–B
F1
E2


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACT+
1
2 IK
1 IJ
6 IP
11 IP
L(RHD)
LG(LHD)
GR
Y (RHD)
LG (LHD)
8 EN1
7 HE1 (LHD)
11 HE1 (RHD)
L (LHD)
24 IE2
9 IE2
9 HE2
10 KN1
1 KN1
3 KN1
Detection
M
J7 Door Lock Assembly (Front LH)
H8 Door Lock Assembly (Front RH)
K5 Door Lock Assembly (Rear LH)
W-B
25 IE2
25 HE2
4 KN1
N29 Junction Connector
N1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ACT–
LSWP
LSWD
3
27 A
9 B
2 IJ
18 IF
5 IF
L(RHD)
LG(LHD)
GR
LG
B
L
GR (LHD)
L (RHD)
Y (RHD)
L (LHD)
1
E48
Junction Connector
6
7
8 EO1
4 EO1
16 EO1
3 4K
2 4K
4 4K
2 4G
10 JO1
1 JO1
3 JO1
4
6
M
Detection
J5
Door Lock Assembly (Rear RH)
1
9
W–B
4 JO1
LG
Y(RHD)
GR
L(LHD)
8
O21
Junction Connector
O1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
DCTY
PCTY
LCTY
RCTY
LGCY
TR+
24 B
21 A
17
7 10
5 A
25 A
1 B
L (LHD)
L (RHD)
Y (RHD)
Y (LHD)
LG
GR
W
B
17 EN2
5 EN1
13
14
N28
Junction Connector
10 3F
11 3O
5 3E
5 3N
6 3N
12 3O
6 3C
7 3C
3 SN1
16 SN1
3
1
S5
Door Lock Assembly (Luggage)
Courtesy
M
2
13 EN2
5 EO2
6 EO2
1
N6
Door Courtesy SW (Front LH)
O6
Door Courtesy SW (Front RH)
N13
Door Courtesy SW (Rear LH)
O10
Door Courtesy SW (Rear RH)
W-B
S15
Junction Connector
9
S1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
ILE
21
5 IR
10 II
* 1 : w/ Sliding Roof
* 2 : w/o Sliding Roof
(BAT)
10A
DOME
2
1
LG
BR
16 EQ1
W
(*2)
V
(*1)
R
(*1)
7
B
Map Lamp
CTY
E
O6
Overhead J/B
6
8
V
(*1)
W–B
(*1)
W
(*2)
1
B
DOOR
OFF
ON
CTY
E
O9
Room Lamp (Center)
2
3
W
(*2)
W
(*2)
15 EQ1
7 EQ1
W
(*2)
R
(*1)
6 IR
10 IL
13 ID
7 IF
LG
R
BR
6
ILL–
ILL+
2
E25
Transponder Key Amplifier
Ignition Key Cylinder Light
R
12 3B
12 3L

Wireless Door Lock Control

System Outline

Door lock control (Lock and unlock) 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. 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.

4. 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.

5. 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.

6. 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.

7. Luggage Compartment Door Opener Operation

Pushing the luggage compartment door opener button (Transmitter), luggage compartment door is opened.

○ : Parts Location

Code		See Page	Code	See Page	Code	See Page
E6	A	56 (LHD)	E49	66 (RHD)	O6	58 (LHD)
		66 (RHD)	H8	59 (LHD)		68 (RHD)
E7	B	56 (LHD)		69 (RHD)	O10	58 (LHD)
		66 (RHD)	I7	59 (LHD)		68 (RHD)
E8	C	56 (LHD)		69 (RHD)	O17	58 (LHD)
		66 (RHD)	J5	59 (LHD)		68 (RHD)
E9	D	56 (LHD)		69 (RHD)	O21	58 (LHD)
		66 (RHD)	K5	59 (LHD)		68 (RHD)
E14		56 (LHD)		69 (RHD)	Q6	59 (LHD)
		66 (RHD)	N6	58 (LHD)		69 (RHD)
E22		56 (LHD)		68 (RHD)	Q9	59 (LHD)
		66 (RHD)	N13	58 (LHD)		69 (RHD)
E25		56 (LHD)		68 (RHD)	S5	59 (LHD)
		66 (RHD)	N28	58 (LHD)		69 (RHD)
E48		56 (LHD)		68 (RHD)	S15	59 (LHD)
		66 (RHD)	N29	58 (LHD)		69 (RHD)
E49		56 (LHD)		68 (RHD)		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3F		
3G		
3J		
3L		
3M		
3N		
3O		
4G	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4K		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IJ	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IK	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IP	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

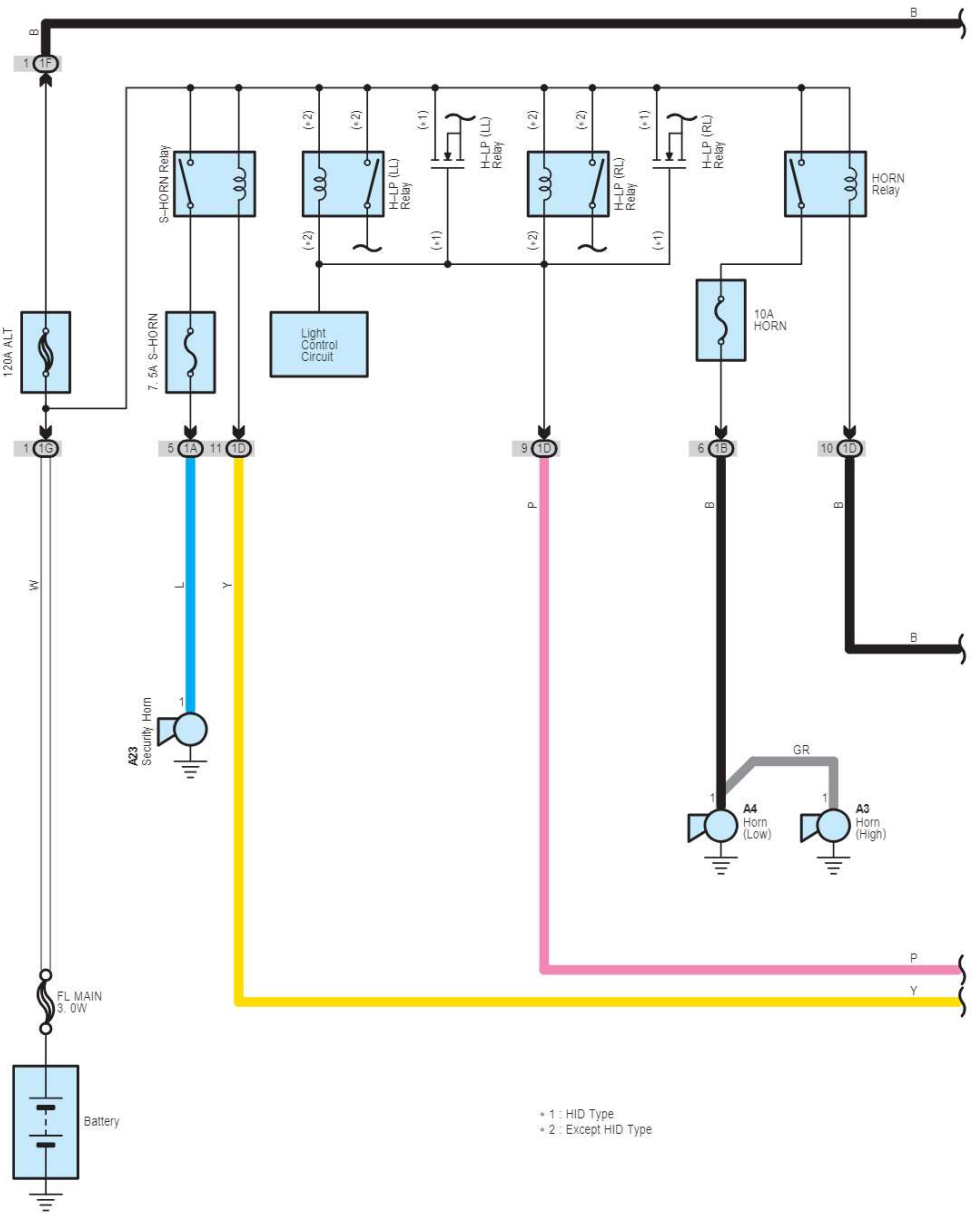
Wireless Door Lock Control

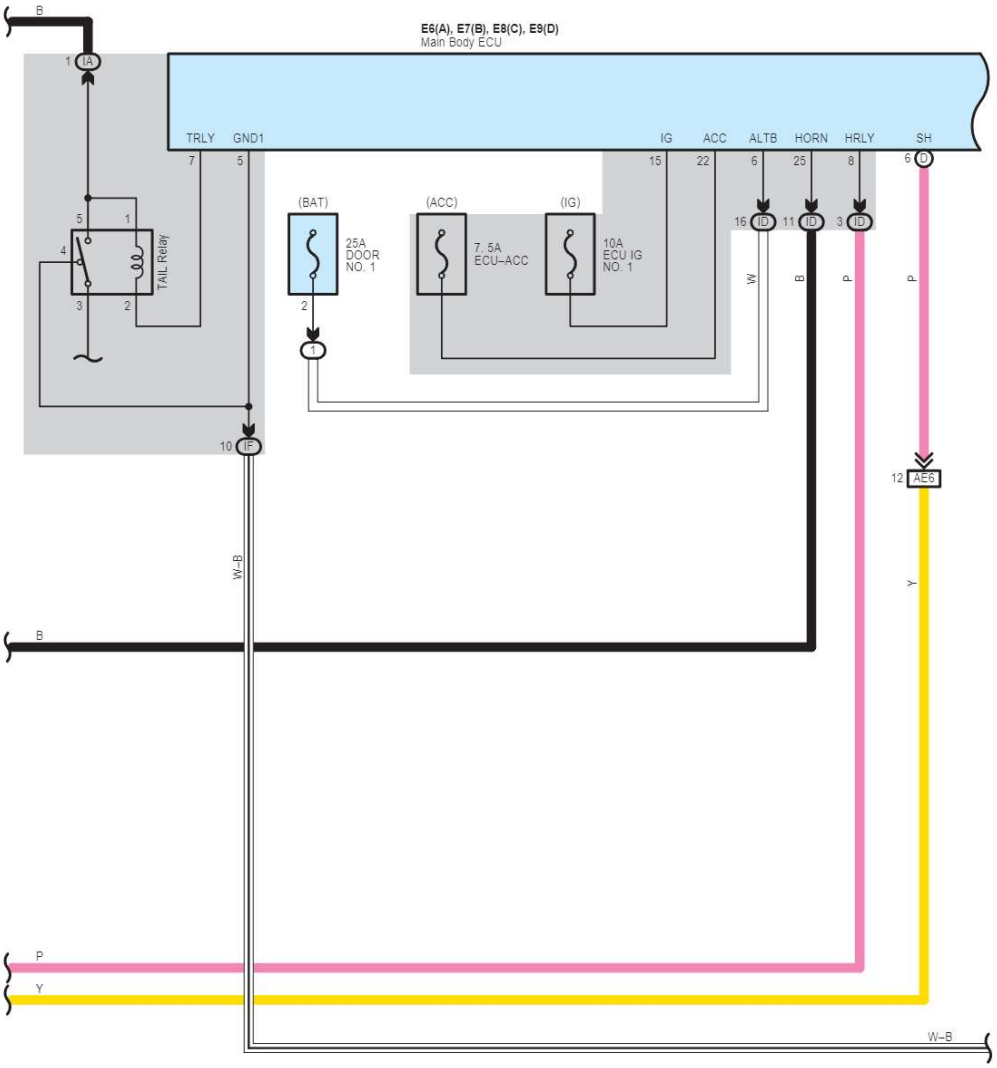
: **Connector Joining Wire Harness and Wire Harness**

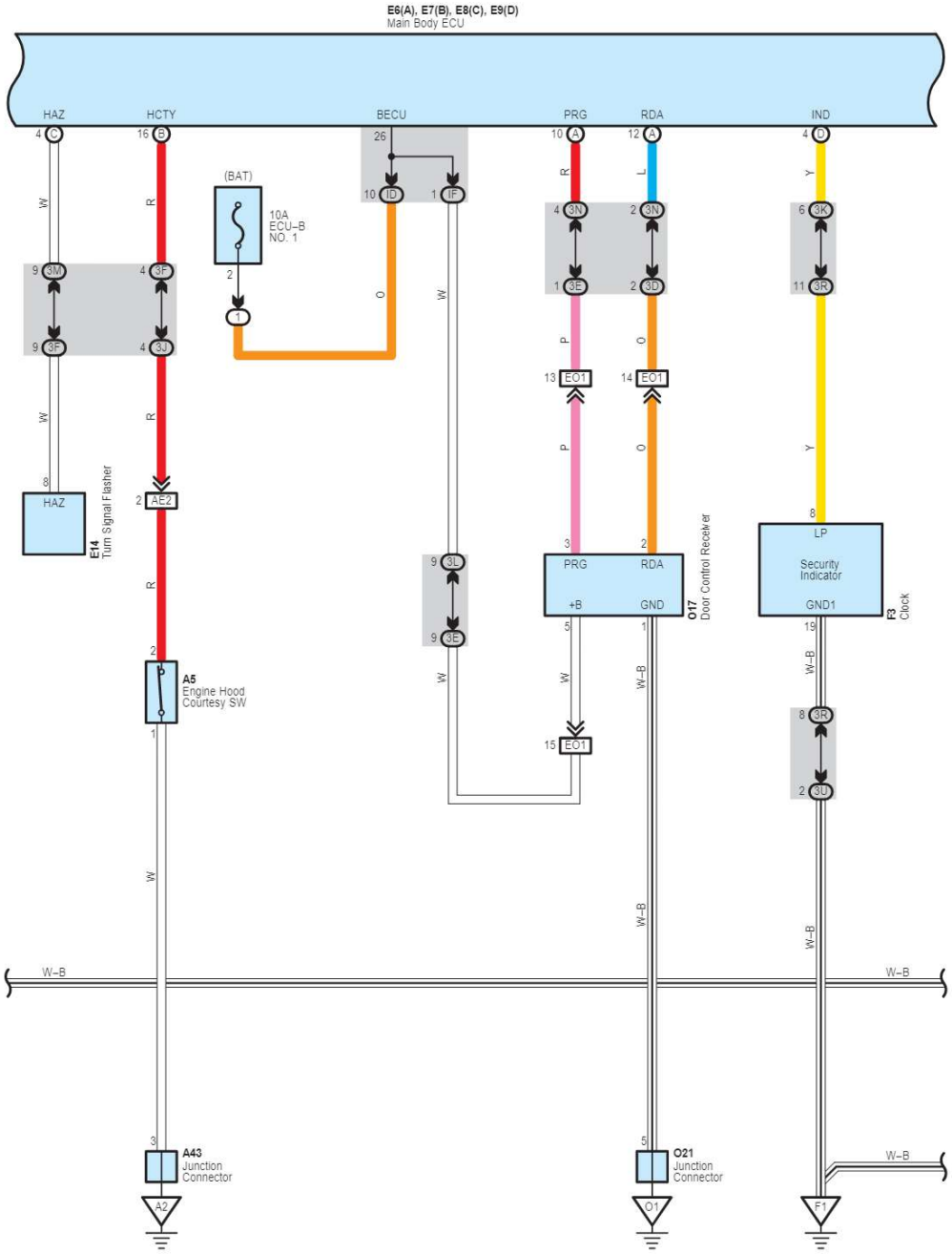
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EN2	74 (LHD)	
	80 (RHD)	
EO1	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	
	80 (RHD)	
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE1	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
HE2	74 (LHD)	
	80 (RHD)	
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
JO1	75 (LHD)	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
	81 (RHD)	
KN1	75 (LHD)	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
	81 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

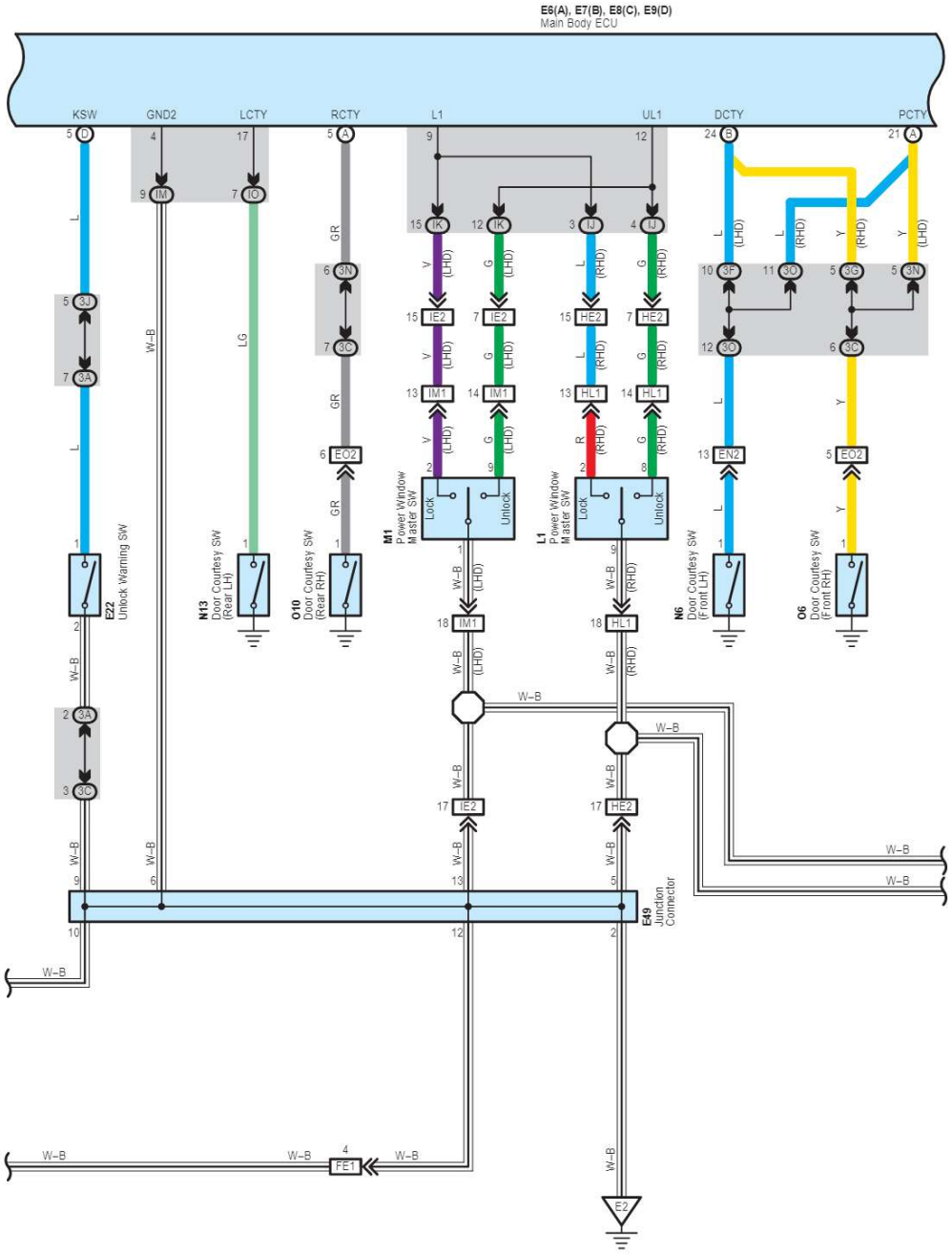
: **Ground Points**

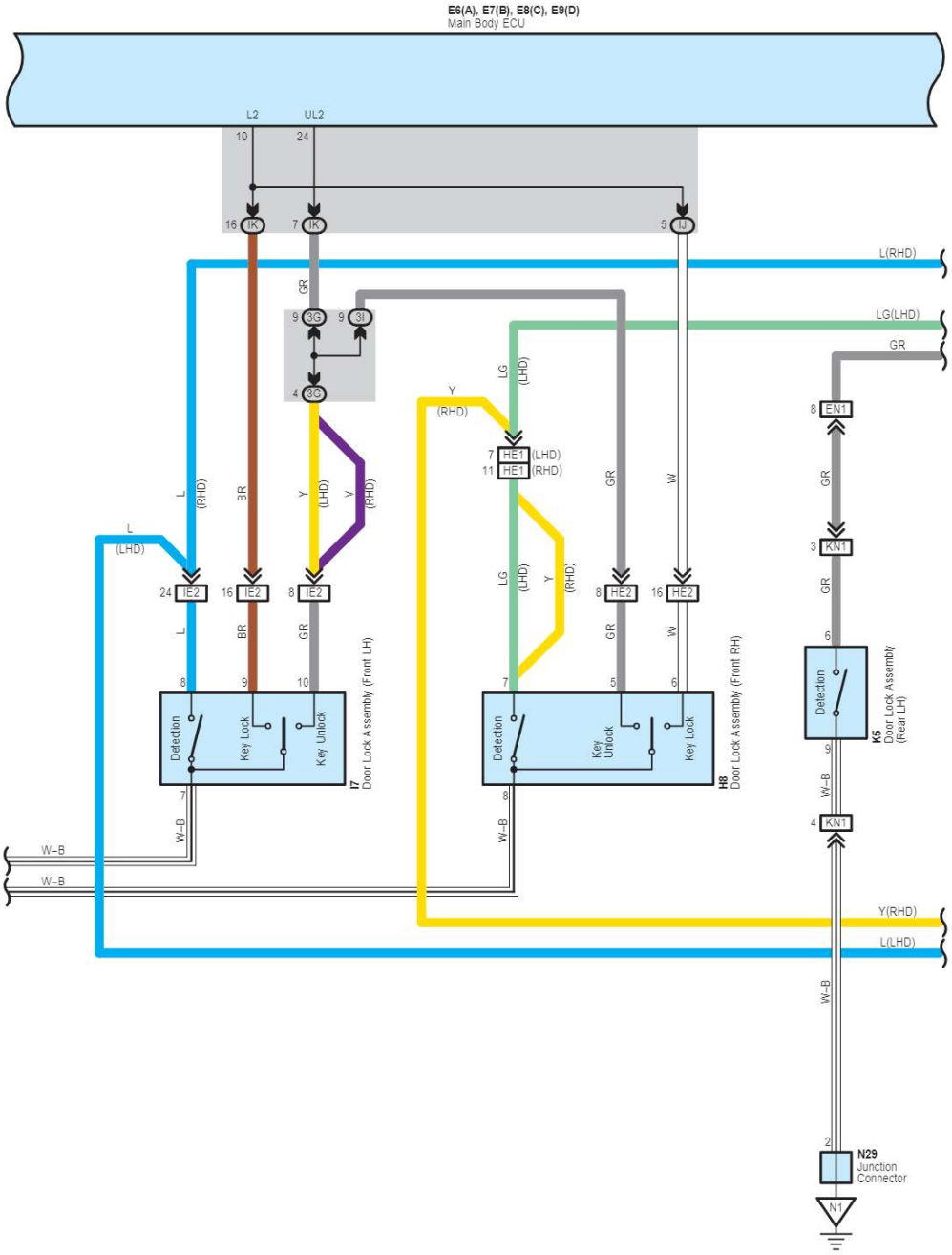
Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	
O1	75 (LHD)	Quarter Panel RH
	81 (RHD)	
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

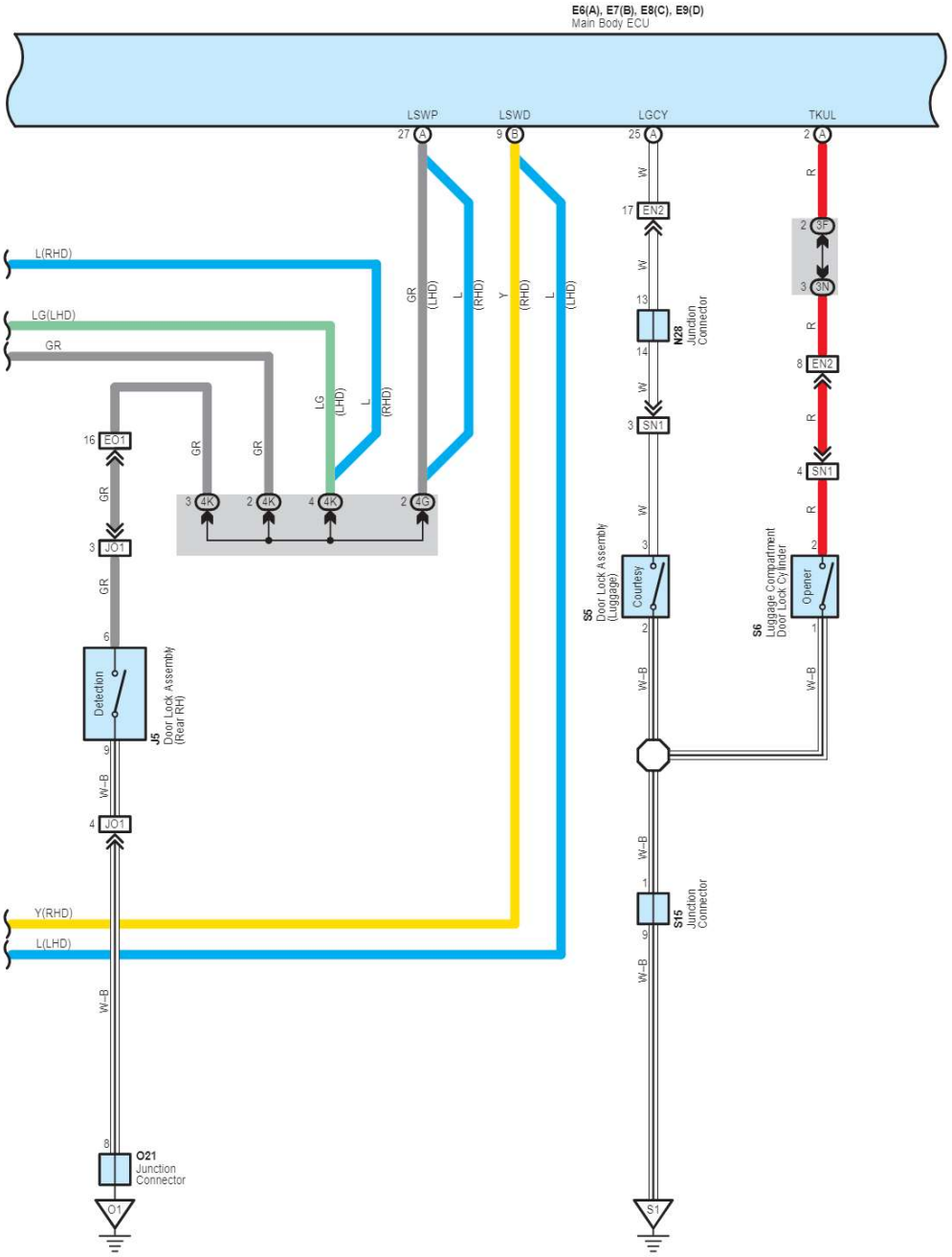

B
1 1F
S-HORN Relay
H-LP (LL) Relay
H-LP (LL) Relay
H-LP (RL) Relay
H-LP (RL) Relay
HORN Relay
120A ALT
7. 5A S-HORN
Light Control Circuit
10A HORN
1 1G
5 1A
11 1D
9 1D
6 1B
10 1D
W
L
Y
P
B
GR
A23 Security Horn
A4 Horn (Low)
A3 Horn (High)
FL MAIN 3. 0W
Battery
* 1 : HID Type
* 2 : Except HID Type

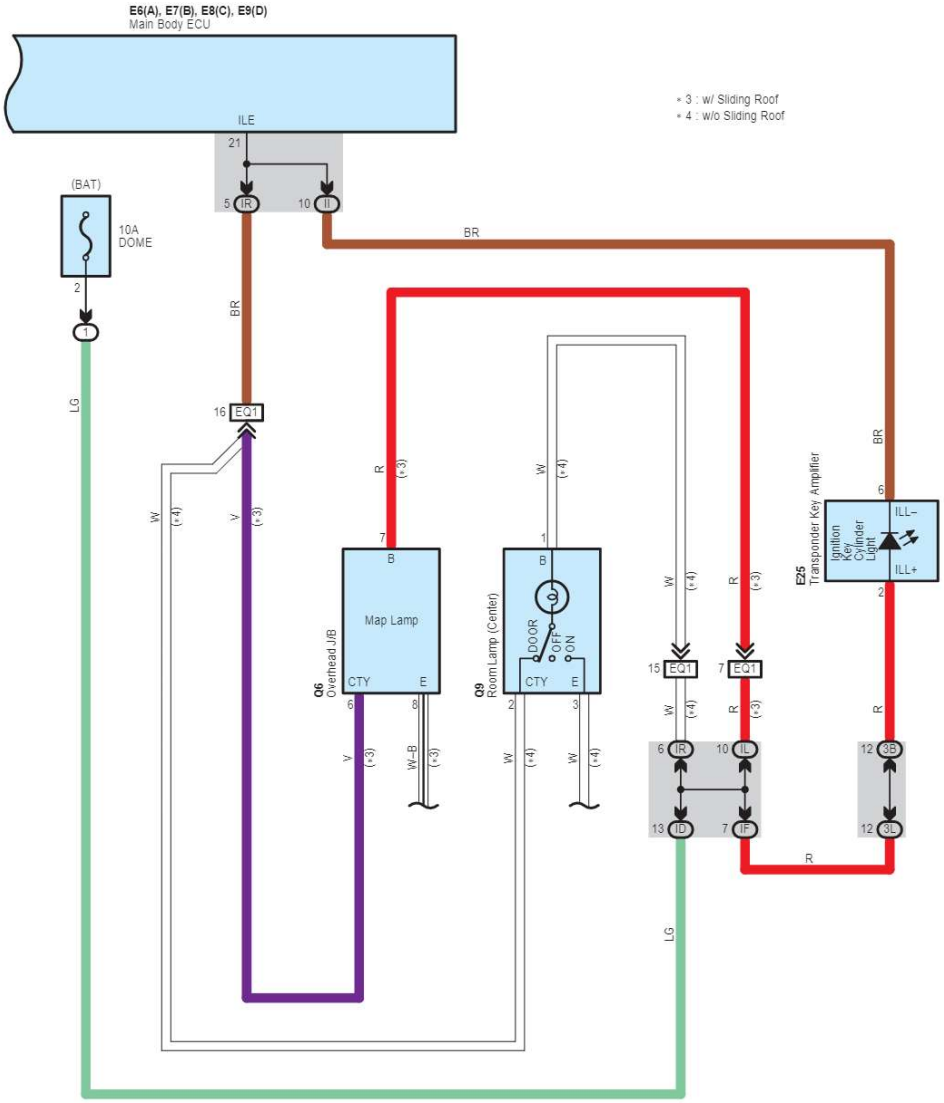

B
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
1 1A
TRLY
GND1
IG
ACC
ALTB
HORN
HRLY
SH
7
5
15
22
6
25
8
6 D
5
1
4
3
2
TAIL Relay
(BAT)
(ACC)
(IG)
25A
DOOR
NO. 1
7.5A
ECU-ACC
10A
ECU IG
NO. 1
2
1
16 1D
11 1D
3 1D
W
B
P
P
10 1F
12 AE6
W-B
Y
B
P
Y
W-B


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
HAZ
HCTY
BECU
PRG
RDA
IND
(BAT)
10A
ECU-B
NO. 1
E14
Turn Signal Flasher
A5
Engine Hood
Courtesy SW
A43
Junction
Connector
A2
O17
Door Control Receiver
PRG
RDA
+B
GND
O21
Junction
Connector
O1
LP
Security
Indicator
GND1
F3
Clock
F1
W-B


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
KSW
GND2
LCTY
RCTY
L1
UL1
DCTY
PCTY
E2
Unlock Warning SW
N13
Door Courtesy SW (Rear LH)
O10
Door Courtesy SW (Rear RH)
M1
Power Window Master SW
L1
Power Window Master SW
N6
Door Courtesy SW (Front LH)
O6
Door Courtesy SW (Front RH)
E49
Junction Connector
Lock
Unlock
W–B
LG
GR
L
Y
G
R
V
(LHD)
(RHD)


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
L2
UL2
10
24
16 IK
7 IK
5 IU
L(RHD)
LG(LHD)
GR
9 3G
9 3I
4 3G
Y
(RHD)
LG
(LHD)
7 HE1 (LHD)
11 HE1 (RHD)
8 EN1
3 KN1
6
Detection
K5
Door Lock Assembly
(Rear LH)
9
W-B
4 KN1
L
(RHD)
BR
Y
(LHD)
Y
(RHD)
L
(LHD)
24 IE2
16 IE2
8 IE2
L
BR
GR
8
9
10
Detection
Key Lock
Key Unlock
I7
Door Lock Assembly (Front LH)
7
W-B
LG
(LHD)
Y
(RHD)
GR
W
8 HE2
16 HE2
GR
W
7
5
6
Detection
Key Unlock
Key Lock
H8
Door Lock Assembly (Front RH)
8
W-B
W-B
W-B
Y(RHD)
L(LHD)
W-B
2
N29
Junction
Connector
N1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
LSWP
LSWD
LGCY
TKUL
27 A
9 B
25 A
2 A
L(RHD)
LG(LHD)
GR
GR (LHD)
L (RHD)
Y (RHD)
L (LHD)
LG (LHD)
L (RHD)
17 EN2
13
N28 Junction Connector
14
3 SN1
2 3F
3 3N
8 EN2
4 SN1
16 EO1
3 4K
2 4K
4 4K
2 4G
3 JO1
6
Detection
J5 Door Lock Assembly (Rear RH)
9
4 JO1
S5 Door Lock Assembly (Luggage)
Courtesy
3
2
S6 Luggage Compartment Door Lock Cylinder
Opener
2
1
W-B
Y(RHD)
L(LHD)
1
S15 Junction Connector
9
8
O21 Junction Connector
O1
S1


E6(A), E7(B), E8(C), E9(D)
Main Body ECU
* 3 : w/ Sliding Roof
* 4 : w/o Sliding Roof
ILE
21
5 IR
10 II
(BAT)
10A
DOME
2
1
BR
LG
16 EQ1
W (*4)
V (*3)
R (*3)
W (*4)
BR
6
ILL−
ILL+
2
E25
Transponder Key Amplifier
Ignition Key Cylinder Light
7
B
Map Lamp
CTY
E
6
8
Q6
Overhead J/B
V (*3)
W–B (*3)
1
B
DOOR
OFF
ON
CTY
E
2
3
Q9
Room Lamp (Center)
W (*4)
W (*4)
W (*4)
R (*3)
15 EQ1
7 EQ1
W (*4)
R (*3)
R
6 IR
10 IL
13 ID
7 IF
12 3B
12 3L
R
LG

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A3	52 (*1)	E8 C	66 (RHD)	N13	58 (LHD)
	54 (*2)	E9 D	56 (LHD)		68 (RHD)
	62 (*3)		66 (RHD)	N28	58 (LHD)
	64 (*4)	E14	56 (LHD)		68 (RHD)
A4	52 (*1)		66 (RHD)	N29	58 (LHD)
	54 (*2)	E22	56 (LHD)		68 (RHD)
	62 (*3)		66 (RHD)	O6	58 (LHD)
	64 (*4)	E25	56 (LHD)		68 (RHD)
A5	52 (*1)		66 (RHD)	O10	58 (LHD)
	54 (*2)	E49	56 (LHD)		68 (RHD)
	62 (*3)		66 (RHD)	O17	58 (LHD)
	64 (*4)	F3	57 (LHD)		68 (RHD)
A23	52 (*1)		67 (RHD)	O21	58 (LHD)
	54 (*2)	H8	59 (LHD)		68 (RHD)
	62 (*3)		69 (RHD)	Q6	59 (LHD)
	64 (*4)	I7	59 (LHD)		69 (RHD)
A43	52 (*1)		69 (RHD)	Q9	59 (LHD)
	54 (*2)	J5	59 (LHD)		69 (RHD)
	62 (*3)		69 (RHD)	S5	59 (LHD)
	64 (*4)	K5	59 (LHD)		69 (RHD)
E6 A	56 (LHD)		69 (RHD)	S6	59 (LHD)
	66 (RHD)	L1	69 (RHD)		69 (RHD)
E7 B	56 (LHD)	M1	59 (LHD)	S15	59 (LHD)
	66 (RHD)	N6	58 (LHD)		69 (RHD)
E8 C	56 (LHD)		68 (RHD)		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1F	24	
1G		
3A	38	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	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
4G	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4K		
IA	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IJ	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IK	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

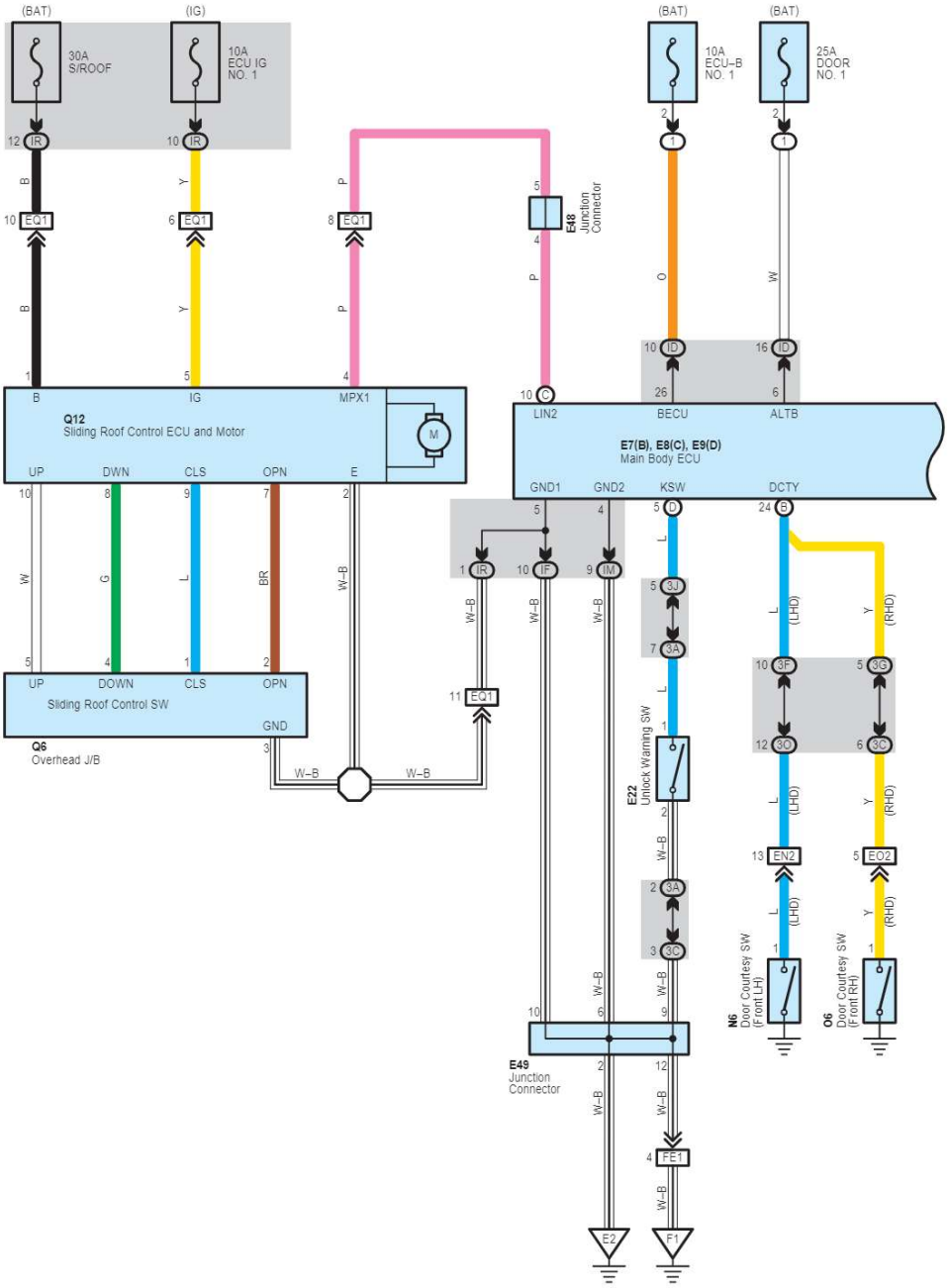
: **Connector Joining Wire Harness and Wire Harness**

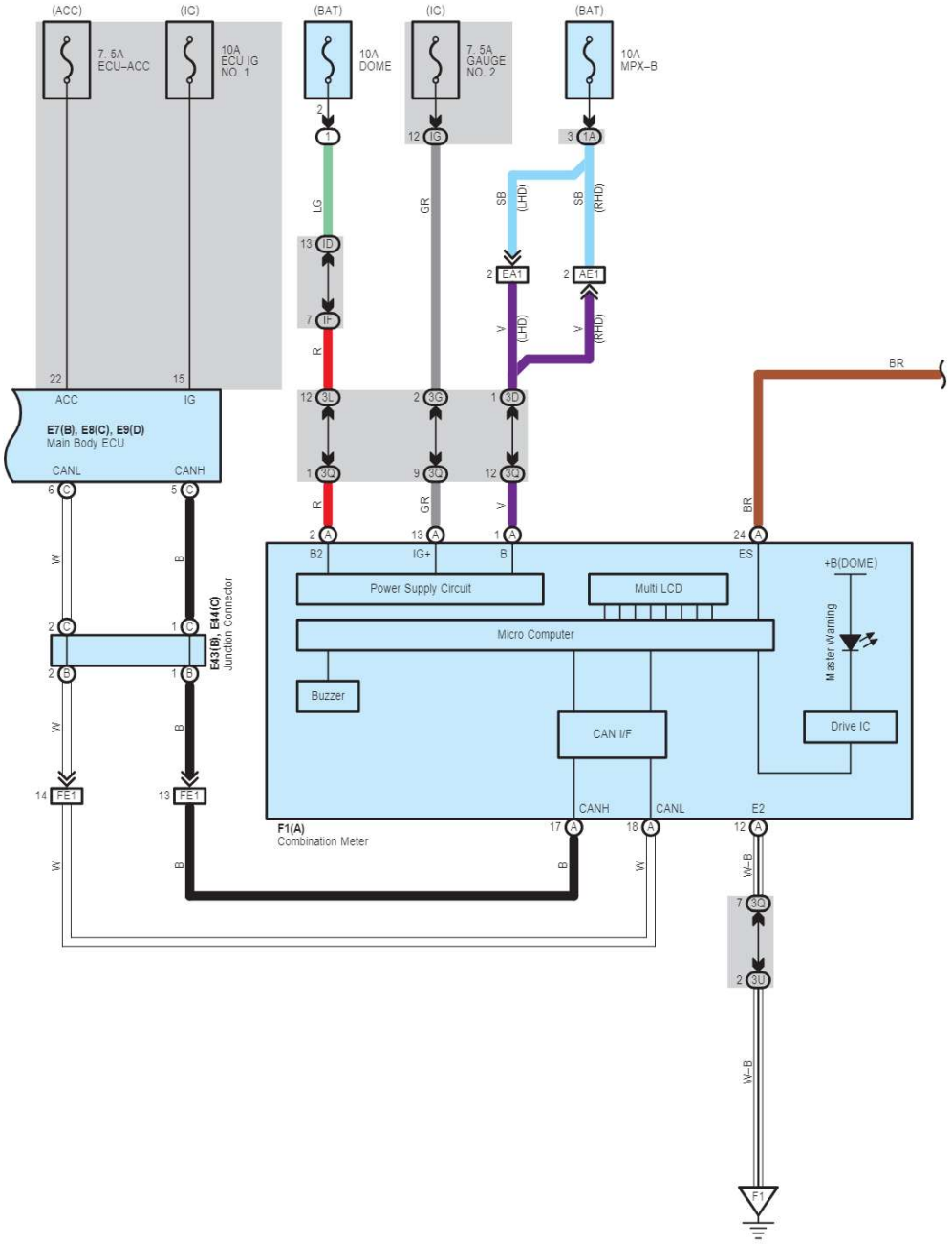
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE6	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
EN1	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EN2	74 (LHD)	
	80 (RHD)	
EO1	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	
	80 (RHD)	
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE1	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
HE2	74 (LHD)	
	80 (RHD)	
HL1	81 (RHD)	Front Door RH Wire and Front Door RH No.2 Wire (Inside of the Front Door RH)
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
IM1	75 (LHD)	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
JO1	75 (LHD)	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
	81 (RHD)	
KN1	75 (LHD)	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
	81 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

: **Ground Points**

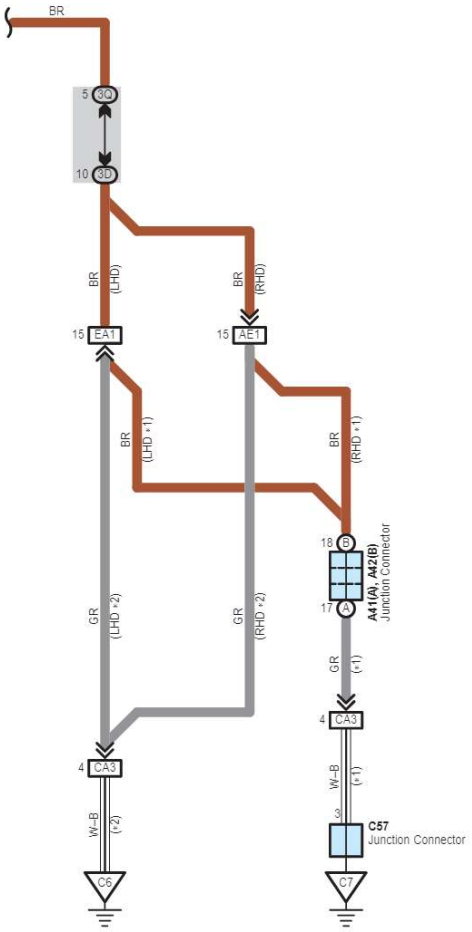
Code	See Page	Ground Points Location
A2	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	
O1	75 (LHD)	Quarter Panel RH
	81 (RHD)	
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
(IG)
30A S/ROOF
10A ECU IG NO. 1
(BAT)
(BAT)
10A ECU-B NO. 1
25A DOOR NO. 1
E48 Junction Connector
Q12
Sliding Roof Control ECU and Motor
E7(B), E8(C), E9(D)
Main Body ECU
LIN2
BECU
ALTB
GND1
GND2
KSW
DCTY
UP
DWN
CLS
OPN
E
MPX1
Sliding Roof Control SW
Q6
Overhead J/B
E22
Unlock Warning SW
E49
Junction Connector
N6
Door Courtesy SW (Front LH)
O6
Door Courtesy SW (Front RH)
(LHD)
(RHD)
E2
F1


(ACC)
(IG)
(BAT)
(IG)
(BAT)
7. 5A ECU–ACC
10A ECU IG NO. 1
10A DOME
7. 5A GAUGE NO. 2
10A MPX–B
E7(B), E8(C), E9(D)
Main Body ECU
ACC
IG
CANL
CANH
E43(B), E44(C)
Junction Connector
F1(A)
Combination Meter
Power Supply Circuit
Multi LCD
Micro Computer
Buzzer
CAN I/F
Drive IC
Master Warning
+B(DOME)
B2
IG+
B
ES
CANH
CANL
E2
LG
GR
SB (LHD)
SB (RHD)
V (LHD)
V (RHD)
R
BR
W
B
W–B

* 1 : 2GR–FE
* 2 : 2AZ–FE



○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
A41	A	57 (LHD)	E9	D	56 (LHD)	E49		56 (LHD)
		67 (RHD)			66 (RHD)			66 (RHD)
A42	B	57 (LHD)	E22		56 (LHD)	F1	A	57 (LHD)
		67 (RHD)			66 (RHD)			67 (RHD)
C57		53 (*1)	E43	B	48, 56 (LHD)	N6		58 (LHD)
		63 (*3)			48, 66 (RHD)	O6		68 (RHD)
E7	B	56 (LHD)	E44	C	48, 56 (LHD)	Q6		59 (LHD)
		66 (RHD)			48, 66 (RHD)			69 (RHD)
E8	C	56 (LHD)	E48		56 (LHD)	Q12		59 (LHD)
		66 (RHD)			66 (RHD)			69 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3C		
3D		
3F		
3G		
3J		
3L		
3O		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE　* 2 : LHD 2AZ–FE　* 3 : RHD 2GR–FE　* 4 : RHD 2AZ–FE

Sliding Roof

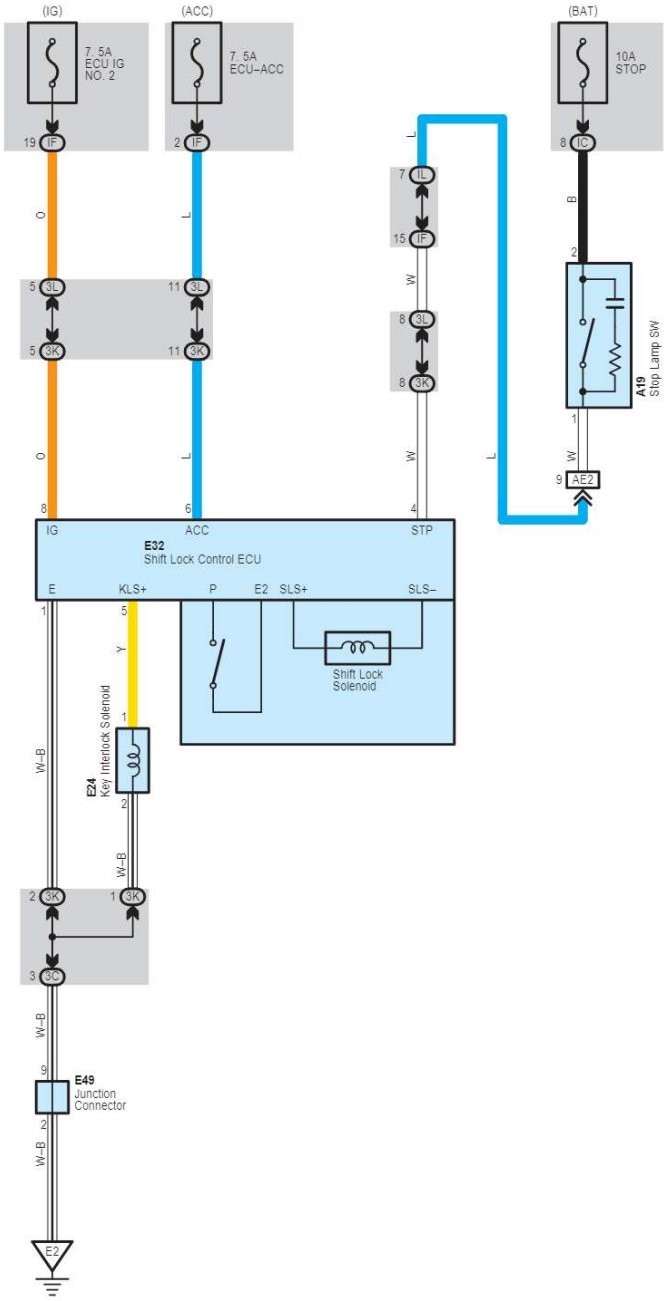
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	80 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

: **Ground Points**

Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(IG)
(ACC)
(BAT)
7.5A ECU IG NO. 2
7.5A ECU–ACC
10A STOP
19 IF
2 IF
8 IC
7 IL
15 IF
5 3L
11 3L
8 3L
5 3K
11 3K
8 3K
A19 Stop Lamp SW
1
9 AE2
8
6
4
IG
ACC
STP
E32 Shift Lock Control ECU
E
KLS+
P
E2
SLS+
SLS–
Shift Lock Solenoid
E24 Key Interlock Solenoid
2 3K
1 3K
3 3C
E49 Junction Connector
E2

System Outline

Shift Lock Mechanism

If the brake pedal is depressed with the ignition SW is turned to ON, the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A19	57 (LHD)	E24	66 (RHD)	E49	56 (LHD)
	67 (RHD)	E32	56 (LHD)		66 (RHD)
E24	56 (LHD)		66 (RHD)		

: Junction Block and Wire Harness Connector

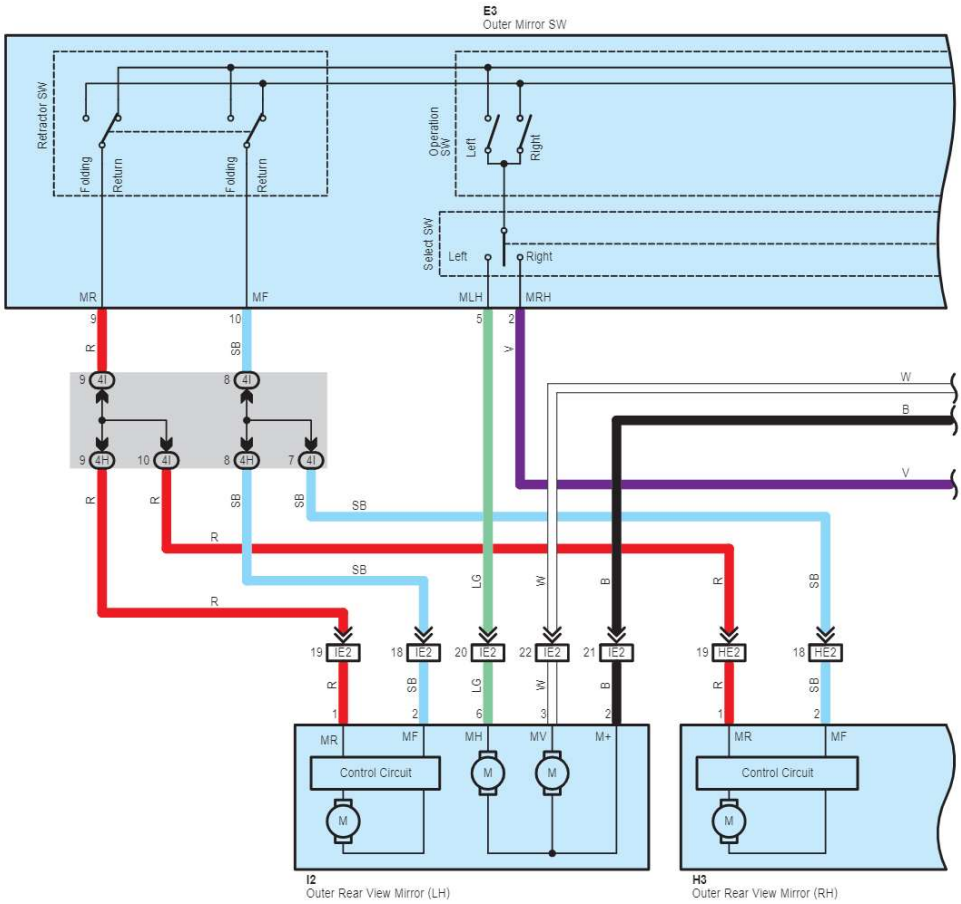
Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3K		
3L		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

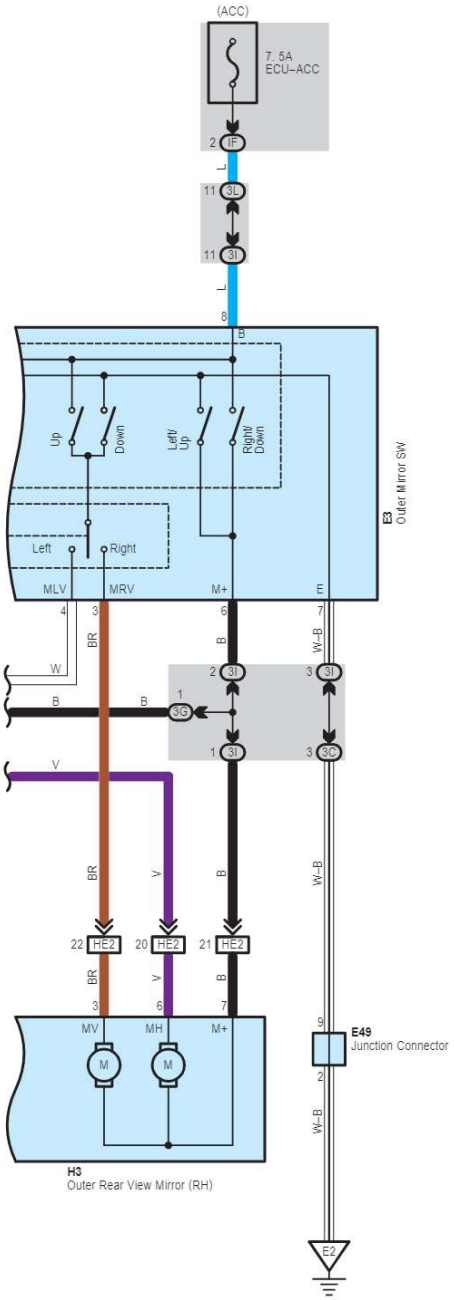
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	


E3
Outer Mirror SW
Retractor SW
Folding
Return
Folding
Return
Operation SW
Left
Right
Select SW
Left
Right
MR
MF
MLH
MRH
9
10
5
2
R
SB
V
9 4I
8 4I
9 4H
10 4I
8 4H
7 4I
W
B
V
R
R
SB
SB
SB
R
SB
R
LG
W
B
R
SB
19 IE2
18 IE2
20 IE2
22 IE2
21 IE2
19 HE2
18 HE2
R
SB
LG
W
B
R
SB
1
2
6
3
2
1
2
MR
MF
MH
MV
M+
MR
MF
Control Circuit
Control Circuit
M
M
M
M
I2
Outer Rear View Mirror (LH)
H3
Outer Rear View Mirror (RH)


(ACC)
7.5A
ECU–ACC
2 IF
L
11 3L
11 3I
L
8
B
Up
Down
Left/ Up
Right/ Down
Left
Right
MLV
MRV
M+
E
E3
Outer Mirror SW
4
3
6
7
BR
B
W–B
W
2 3I
3 3I
B
B
1
3G
1 3I
3 3C
V
BR
V
B
W–B
22 HE2
20 HE2
21 HE2
BR
V
B
3
6
7
MV
MH
M+
M
M
9
E49
Junction Connector
2
W–B
H3
Outer Rear View Mirror (RH)
E2

Remote Control Mirror

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E3	56 (LHD)	E49	66 (RHD)	I2	59 (LHD)
	66 (RHD)	H3	59 (LHD)		69 (RHD)
E49	56 (LHD)		69 (RHD)		

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

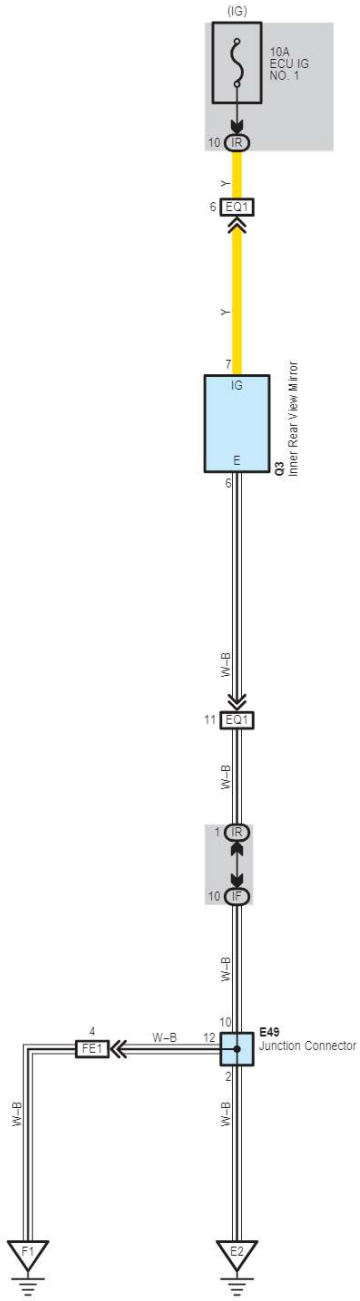
Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3G		
3I		
3L		
4H	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4I		
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
HE2	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	


(IG)
10A
ECU IG
NO. 1
10
IR
Y
6
EQ1
Y
7
IG
E
Q3
Inner Rear View Mirror
6
W–B
11
EQ1
W–B
1
IR
10
IF
W–B
10
4
FE1
W–B
12
E49
Junction Connector
2
W–B
W–B
F1
E2

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E49	56 (LHD)	Q3	59 (LHD)		
	66 (RHD)		69 (RHD)		

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

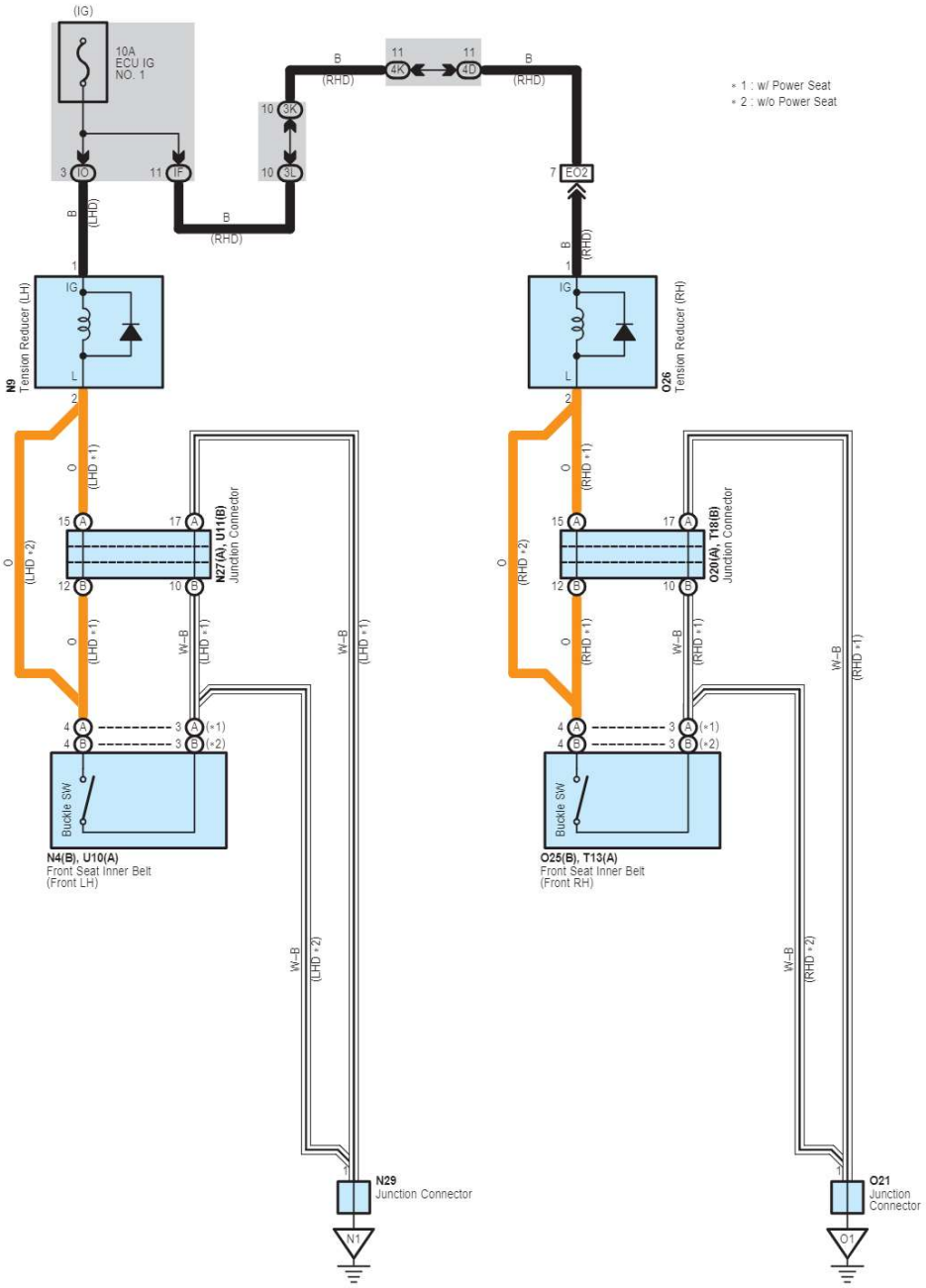
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

Electric Tension Reducer



○ : **Parts Location**

Code		See Page	Code		See Page	Code		See Page
N4	B	60 (LHD)	O20	A	70 (RHD)	T13	A	70 (RHD)
N9		58 (LHD)	O21		68 (RHD)	T18	B	70 (RHD)
N27	A	60 (LHD)	O25	B	70 (RHD)	U10	A	60 (LHD)
N29		58 (LHD)	O26		68 (RHD)	U11	B	60 (LHD)

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

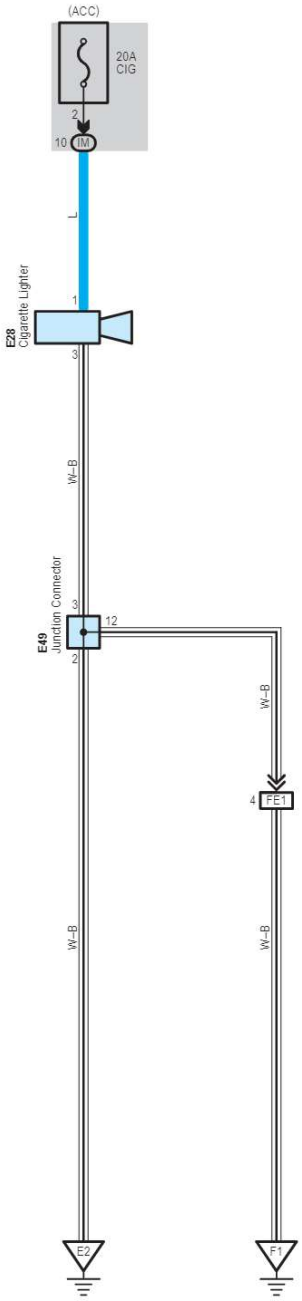
Code	See Page	Junction Block and Wire Harness (Connector Location)
3K	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3L		
4D	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4K		
IF	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EO2	80 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
N1	75 (LHD)	Quarter Panel LH
O1	81 (RHD)	Quarter Panel RH


(ACC)
20A
CIG
2
10
IM
L
1
E28
Cigarette Lighter
3
W–B
E49
Junction Connector
3
12
2
W–B
4
FE1
W–B
W–B
E2
E1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E28	56 (LHD)	E49	56 (LHD)		
	66 (RHD)		66 (RHD)		

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

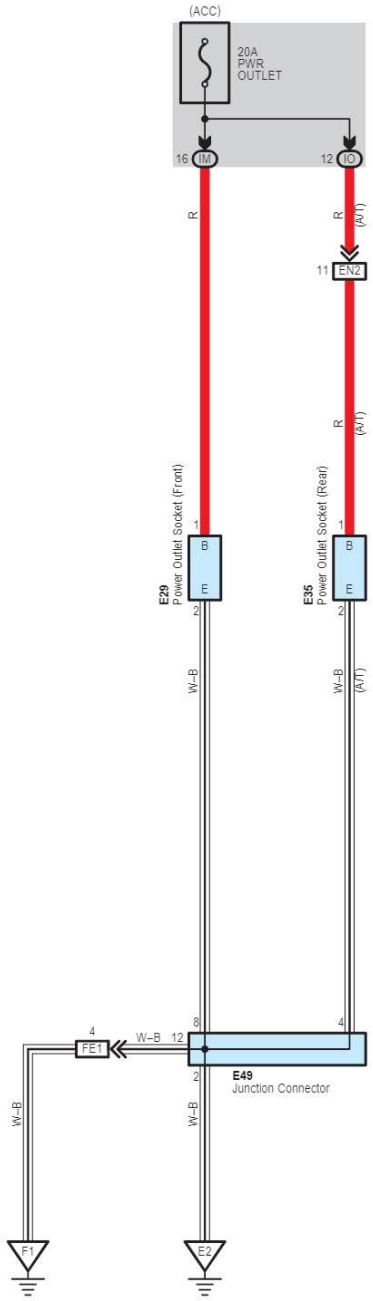
Code	See Page	Junction Block and Wire Harness (Connector Location)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right


(ACC)
20A
PWR
OUTLET
16 IM
12 IO
R
R (A/T)
11 EN2
R (A/T)
E29
Power Outlet Socket (Front)
E35
Power Outlet Socket (Rear)
1
2
W–B
W–B (A/T)
4
FE1
W–B
8
12
4
E49
Junction Connector
2
W–B
W–B
F1
E2

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E29	56 (LHD)	E35	56 (LHD)	E49	56 (LHD)
	66 (RHD)		66 (RHD)		66 (RHD)

: **Junction Block and Wire Harness Connector**

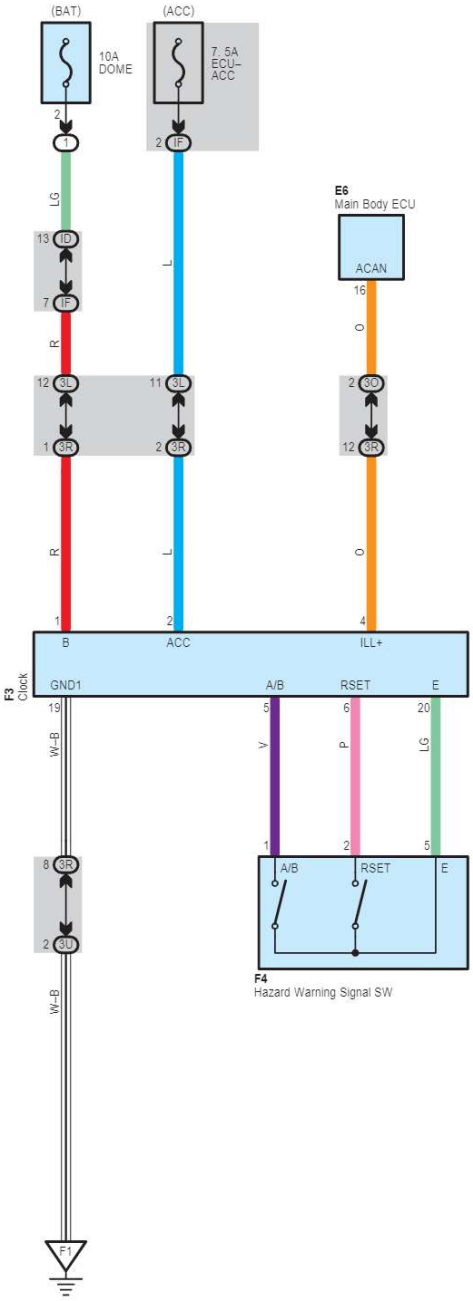
Code	See Page	Junction Block and Wire Harness (Connector Location)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right


(BAT)
(ACC)
10A
DOME
7.5A
ECU-
ACC
E6
Main Body ECU
ACAN
F3
Clock
B
ACC
ILL+
GND1
A/B
RSET
E
F4
Hazard Warning Signal SW
F1

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E6	56 (LHD)	F3	57 (LHD)	F4	57 (LHD)
	66 (RHD)		67 (RHD)		67 (RHD)

⬭ : **Relay Blocks**

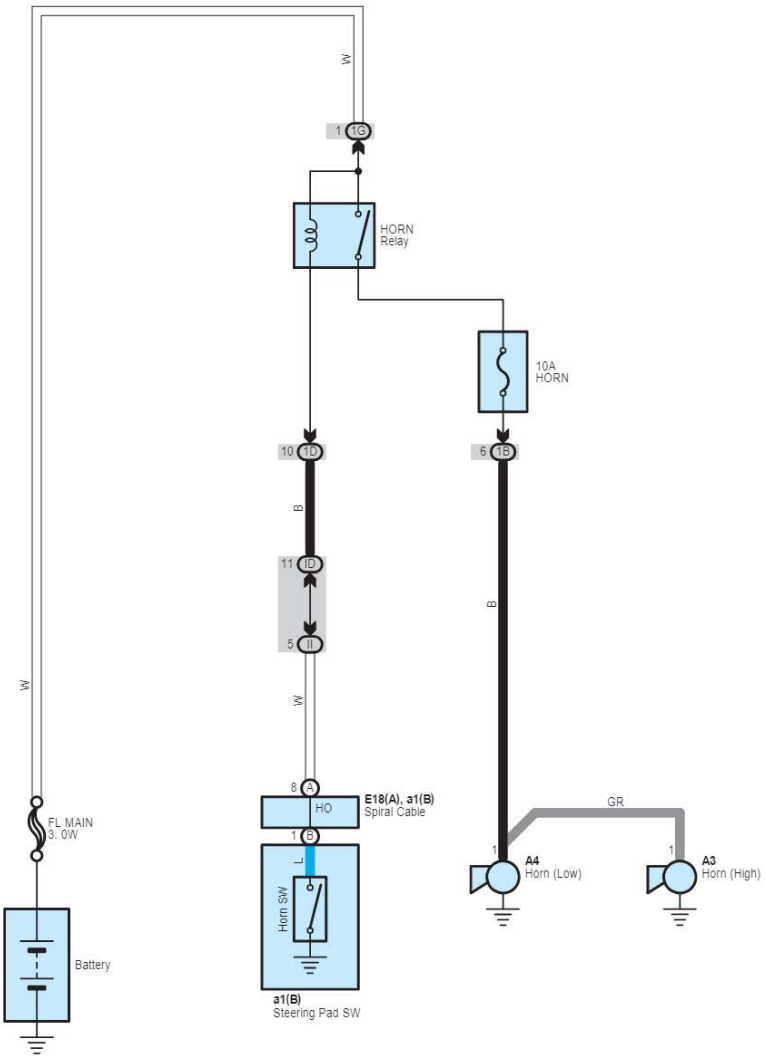
Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3L	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3O		
3R	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

▽ : **Ground Points**

Code	See Page	Ground Points Location
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

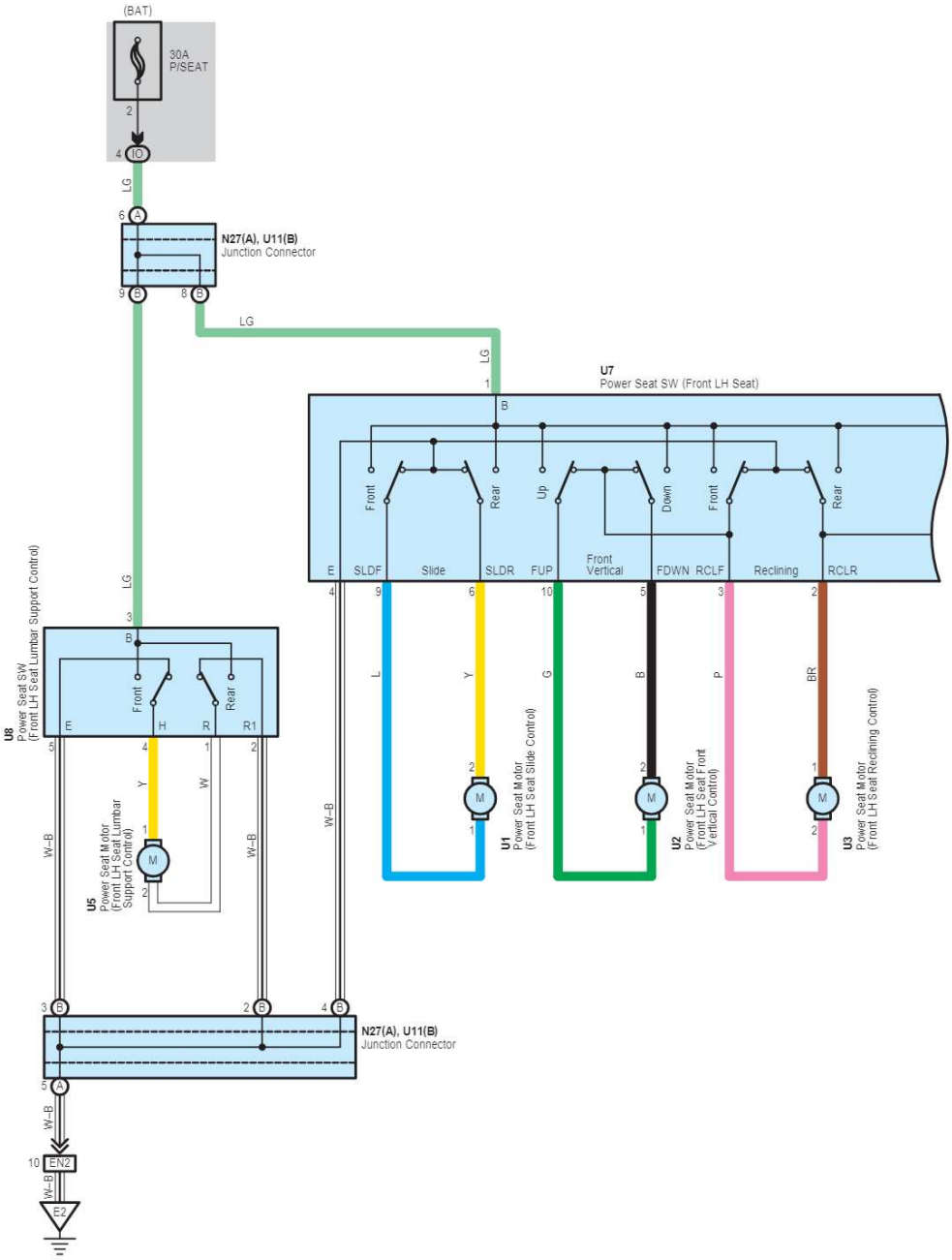

W
1 1G
HORN
Relay
10A
HORN
10 1D
6 1B
B
11 1D
5 I1
B
W
W
8 A
HO
E18(A), a1(B)
Spiral Cable
1 B
L
Horn SW
a1(B)
Steering Pad SW
GR
1
A4
Horn (Low)
1
A3
Horn (High)
FL MAIN
3. 0W
Battery

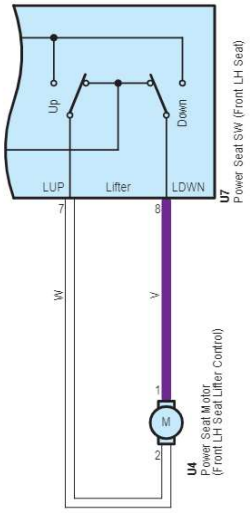
○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
A3	52 (*1)	A4	52 (*1)	E18	A	56 (LHD)
	54 (*2)		54 (*2)			66 (RHD)
	62 (*3)		62 (*3)	a1	B	57 (LHD)
	64 (*4)		64 (*4)			67 (RHD)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1G	24	
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
II	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)


(BAT)
30A
P/SEAT
IG
LG
N27(A), U11(B)
Junction Connector
U7
Power Seat SW (Front LH Seat)
Front
Rear
Up
Down
Front
Rear
E
SLDF
Slide
SLDR
FUP
Front
Vertical
FDWN
RCLF
Reclining
RCLR
U8
Power Seat SW
(Front LH Seat Lumbar Support Control)
E
H
R
R1
U5
Power Seat Motor
(Front LH Seat Lumbar
Support Control)
U1
Power Seat Motor
(Front LH Seat Slide Control)
U2
Power Seat Motor
(Front LH Seat Front
Vertical Control)
U3
Power Seat Motor
(Front LH Seat Reclining Control)
W-B
EN2
E2


Up
Down
LUP
Lifter
LDWN
U7
Power Seat SW (Front LH Seat)
7
8
W
V
1
M
2
U4
Power Seat Motor
(Front LH Seat Lifter Control)

Power Seat (LHD Driver's Seat)

○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
N27	A	60 (LHD)	U3	60 (LHD)	U7		60 (LHD)
U1		60 (LHD)	U4	60 (LHD)	U8		60 (LHD)
U2		60 (LHD)	U5	60 (LHD)	U11	B	60 (LHD)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

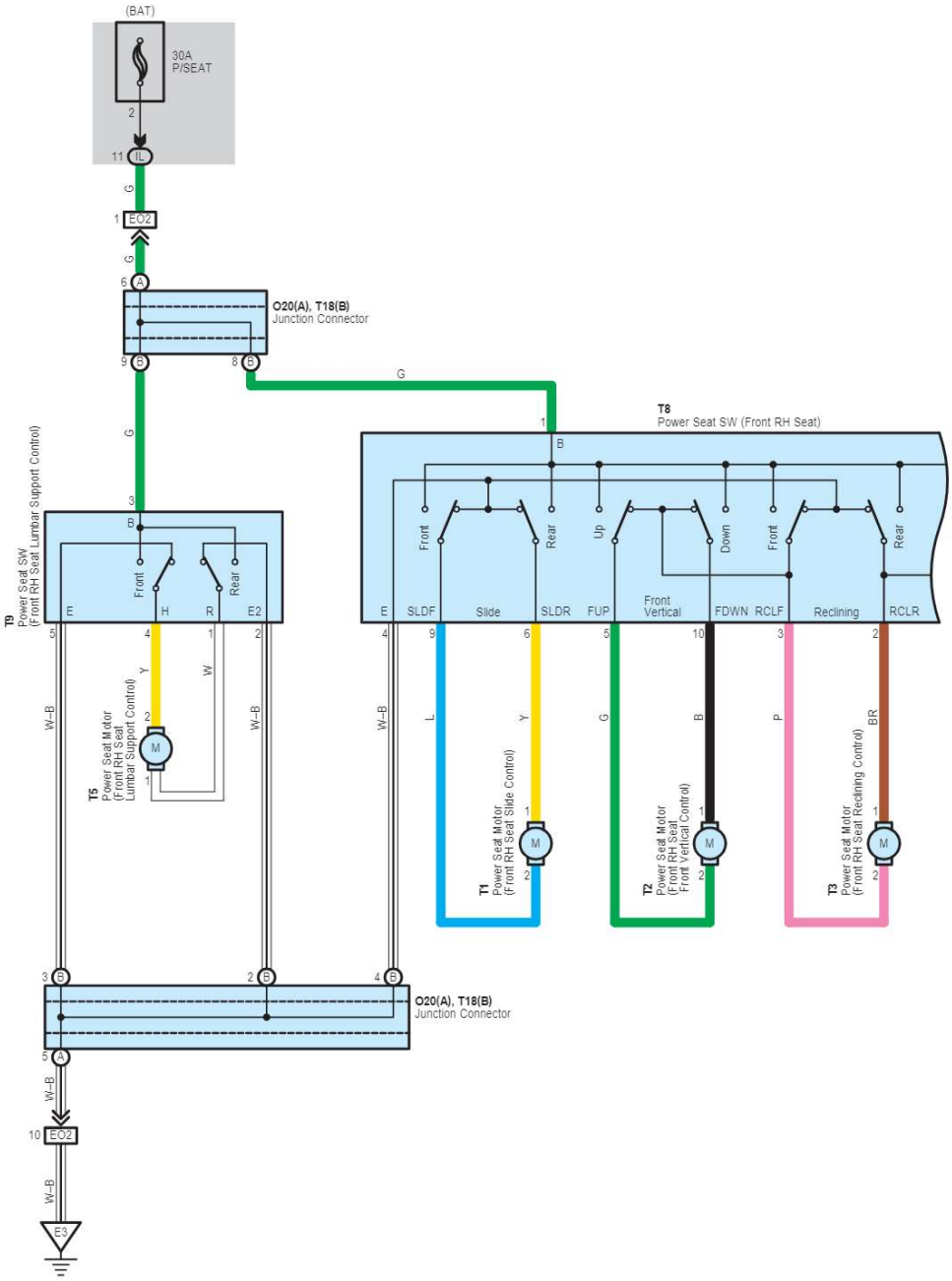
▭ : **Connector Joining Wire Harness and Wire Harness**

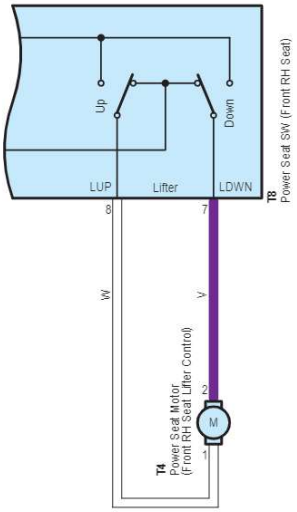
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH

Power Seat (RHD Driver's Seat)




Up
Down
LUP
Lifter
LDWN
T8
Power Seat SW (Front RH Seat)
8
7
W
V
2
M
1
T4
Power Seat Motor
(Front RH Seat Lifter Control)

Power Seat (RHD Driver's Seat)

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
O20 A	70 (RHD)	T3	70 (RHD)	T8	70 (RHD)
T1	70 (RHD)	T4	70 (RHD)	T9	70 (RHD)
T2	70 (RHD)	T5	70 (RHD)	T18 B	70 (RHD)

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

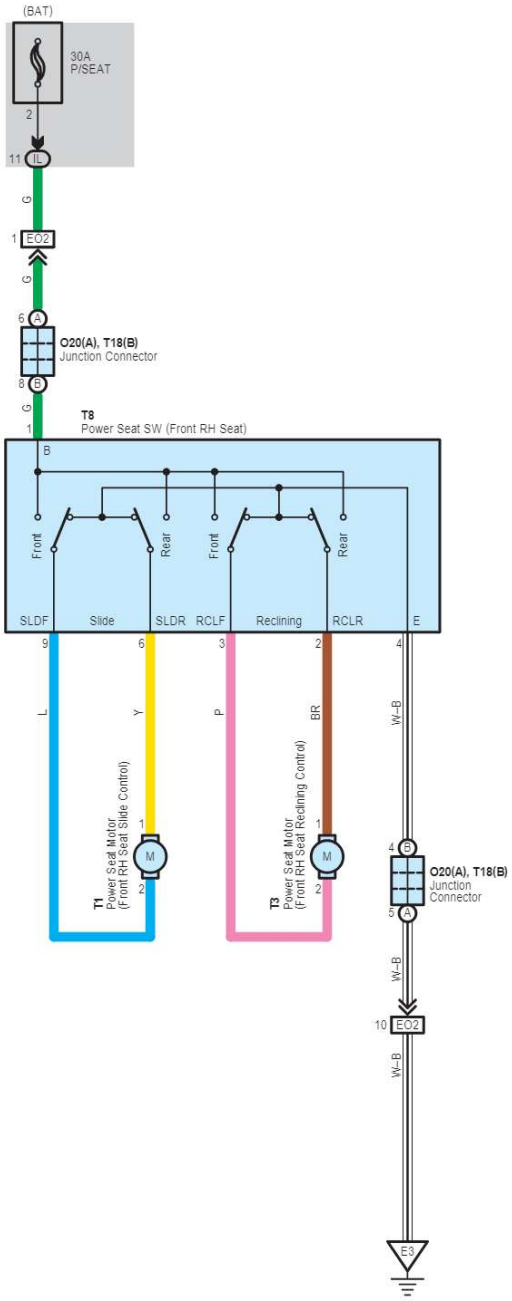
Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EO2	80 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E3	80 (RHD)	Instrument Panel Right


(BAT)
30A
P/SEAT
2
11 IL
G
1 EO2
G
6 A
O20(A), T18(B)
Junction Connector
8 B
G
1
T8
Power Seat SW (Front RH Seat)
B
Front
Rear
Front
Rear
SLDF
Slide
SLDR
RCLF
Reclining
RCLR
E
9
6
3
2
4
L
Y
P
BR
W–B
Power Seat Motor
(Front RH Seat Slide Control)
T1
Power Seat Motor
(Front RH Seat Reclining Control)
T3
M
M
1
2
4 B
5 A
O20(A), T18(B)
Junction
Connector
W–B
10 EO2
W–B
E3

○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
O20	A	60 (LHD)	T3	60 (LHD)	T18	B	60 (LHD)
T1		60 (LHD)	T8	60 (LHD)			

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

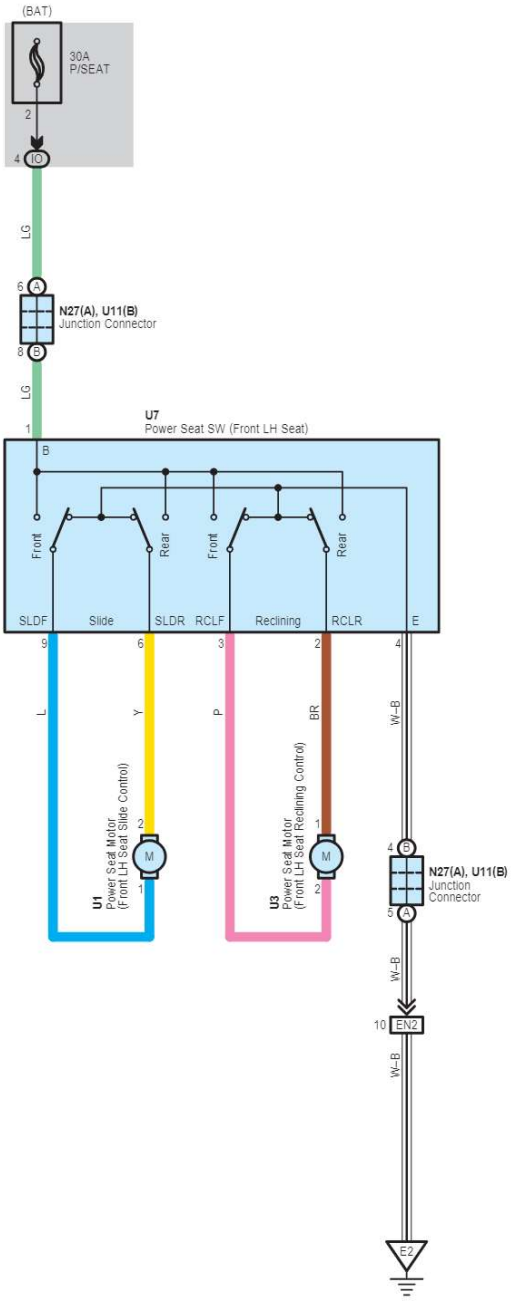
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
E3	74 (LHD)	Instrument Panel Right

Power Seat (RHD Front Passenger's Seat)



○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
N27	A	70 (RHD)	U3	70 (RHD)	U11	B	70 (RHD)
U1		70 (RHD)	U7	70 (RHD)			

: **Junction Block and Wire Harness Connector**

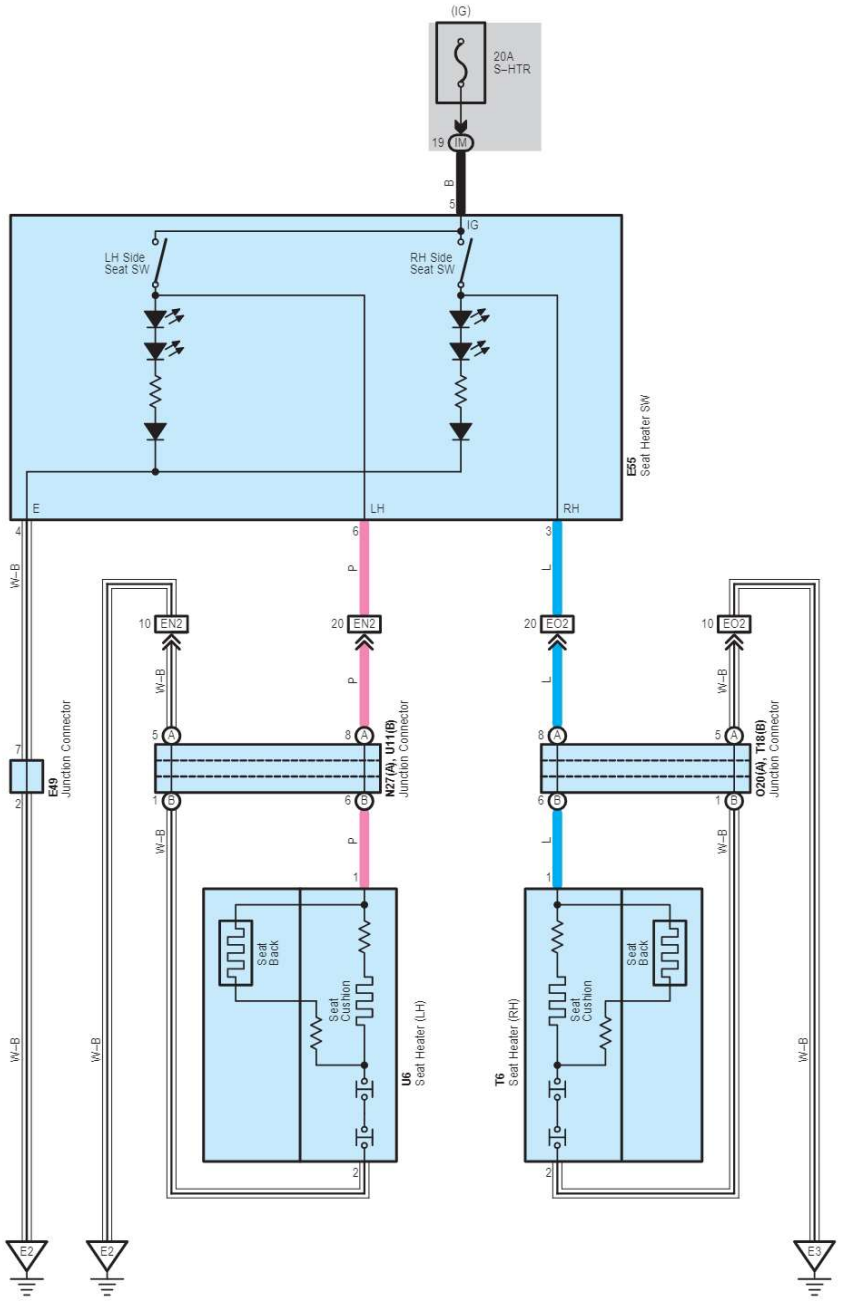
Code	See Page	Junction Block and Wire Harness (Connector Location)
IO	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	80 (RHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
E2	80 (RHD)	Instrument Panel Brace LH


(IG)
20A
S-HTR
19
IM
B
5
IG
LH Side
Seat SW
RH Side
Seat SW
E55
Seat Heater SW
E
LH
RH
4
6
3
W-B
P
L
10
EN2
20
EN2
20
EO2
10
EO2
W-B
P
L
W-B
7
2
E49
Junction Connector
5
A
8
A
8
A
5
A
1
B
6
B
6
B
1
B
N27(A), U11(B)
Junction Connector
O20(A), T18(B)
Junction Connector
W-B
P
L
W-B
1
1
Seat
Back
Seat
Cushion
U6
Seat Heater (LH)
T6
Seat Heater (RH)
Seat
Back
Seat
Cushion
2
2
W-B
W-B
W-B
E2
E2
E3

: **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E49	56 (LHD)	O20 A	60 (LHD)	U6	60 (LHD)
E55	56 (LHD)	T6	60 (LHD)	U11 B	60 (LHD)
N27 A	60 (LHD)	T18 B	60 (LHD)		

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

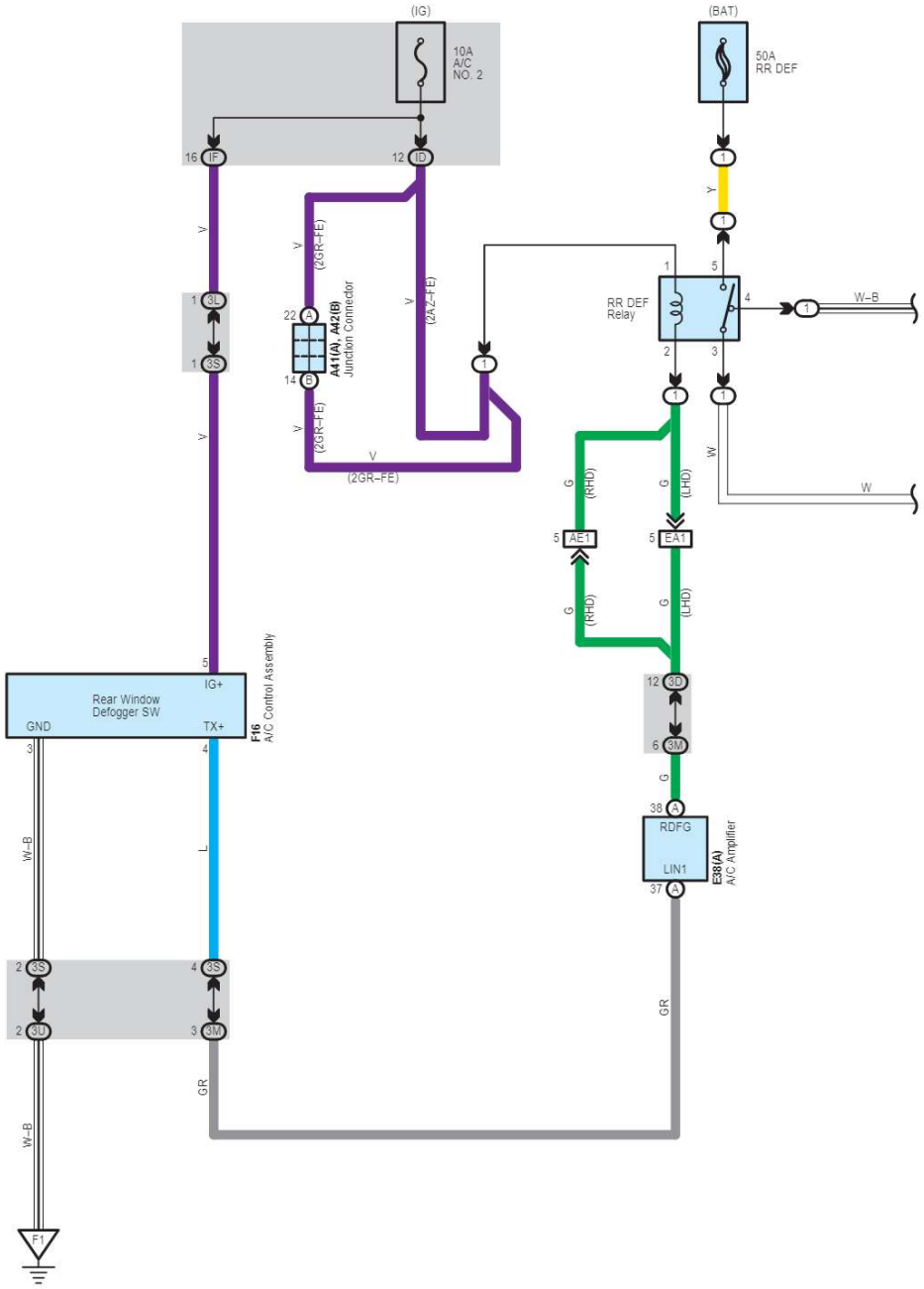
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

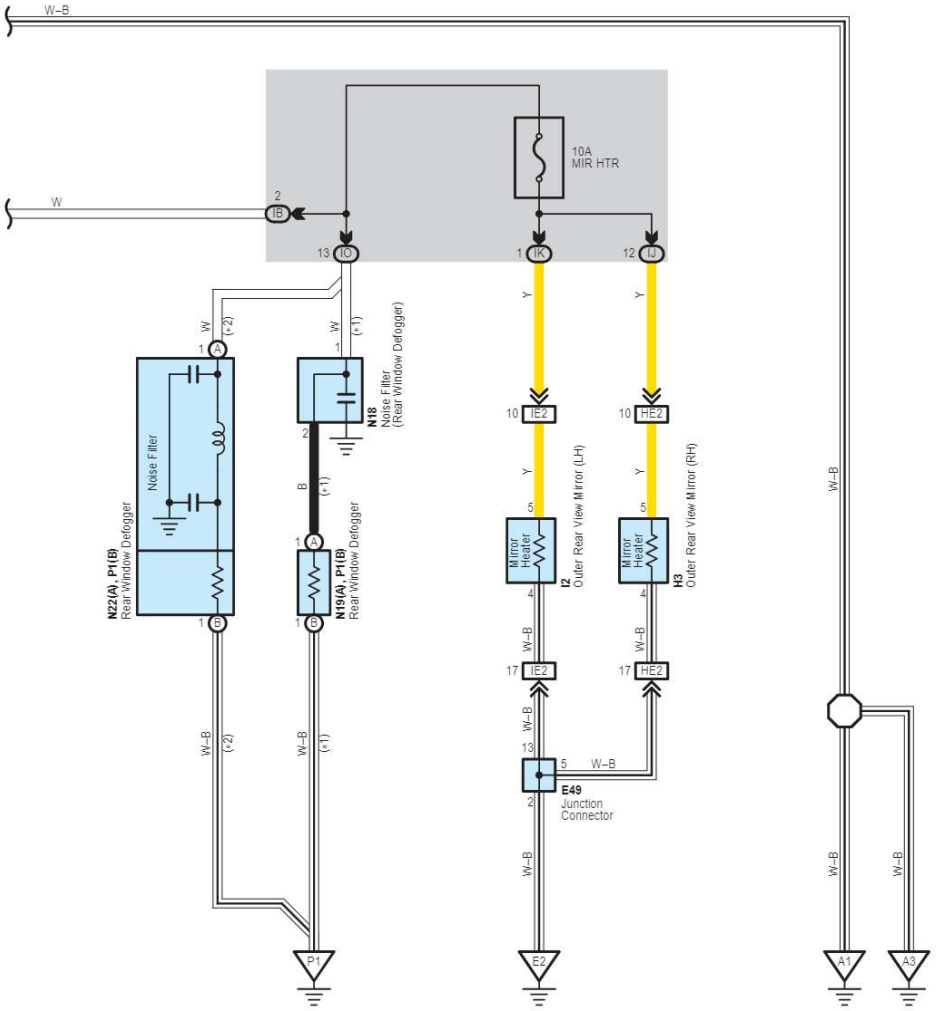
: **Ground Points**

Code	See Page	Ground Points Location
E2	74 (LHD)	Instrument Panel Brace LH
E3	74 (LHD)	Instrument Panel Right

Rear Window Defogger and Mirror Heater



* 1 : Except Turkey
* 2 : Turkey



Rear Window Defogger and Mirror Heater

○ : **Parts Location**

Code		See Page	Code	See Page	Code		See Page
A41	A	57 (LHD)	E49	66 (RHD)	N18		58 (LHD)
		67 (RHD)	F16	57 (LHD)			68 (RHD)
A42	B	57 (LHD)		67 (RHD)	N19	A	58 (LHD)
		67 (RHD)	H3	59 (LHD)			68 (RHD)
E38	A	56 (LHD)		69 (RHD)	N22	A	58 (LHD)
		66 (RHD)	I2	59 (LHD)	P1	B	58 (LHD)
E49		56 (LHD)		69 (RHD)			68 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

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

Code	See Page	Junction Block and Wire Harness (Connector Location)
3D	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3L		
3M		
3S	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3U		
IB	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IJ	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IK	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

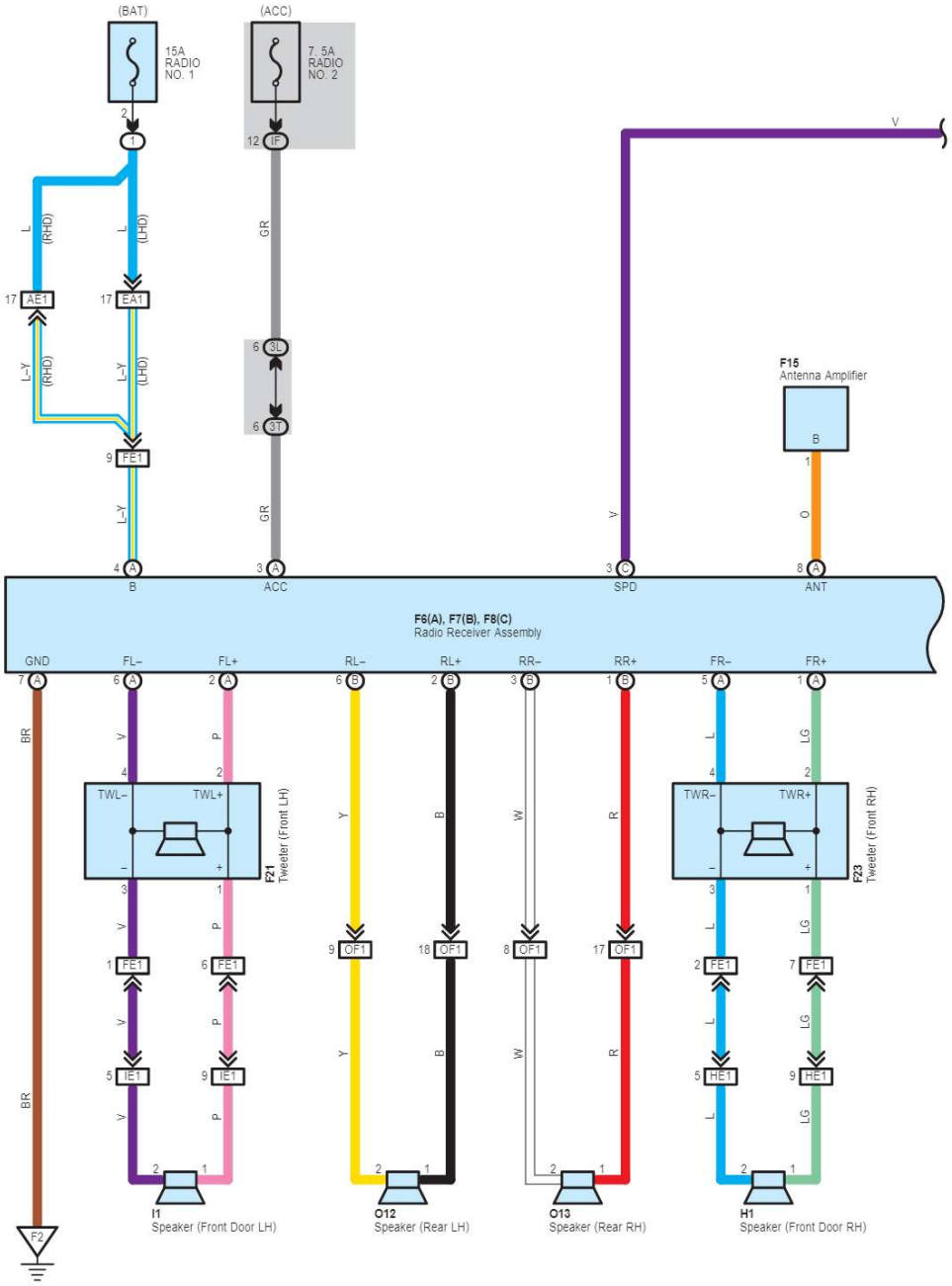
▭ : **Connector Joining Wire Harness and Wire Harness**

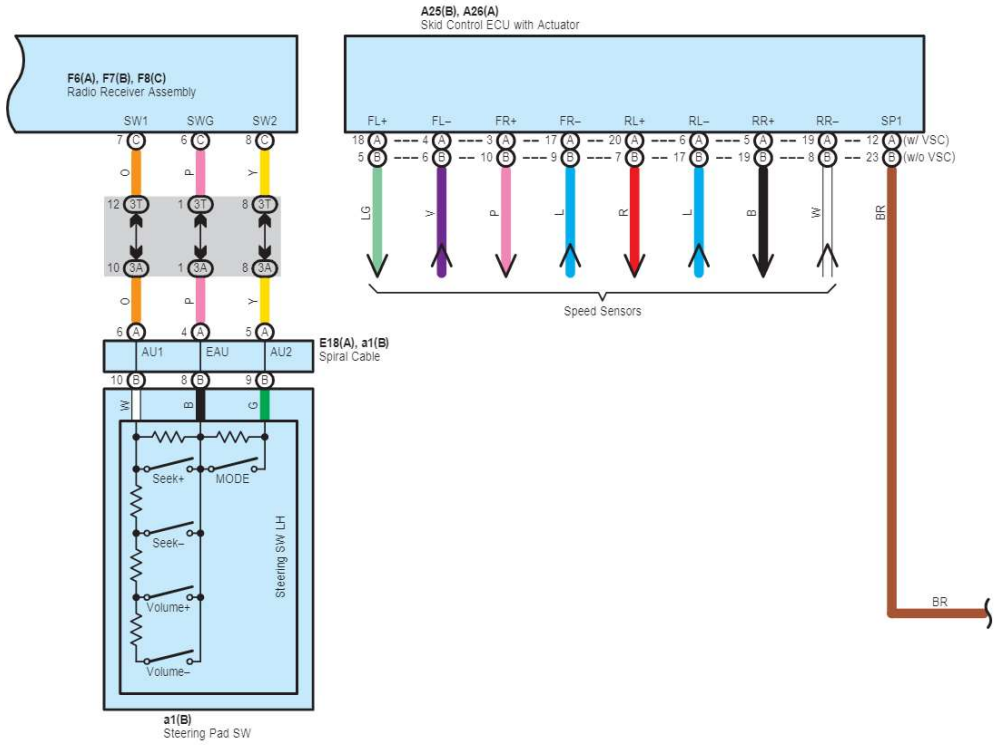
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
HE2	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	

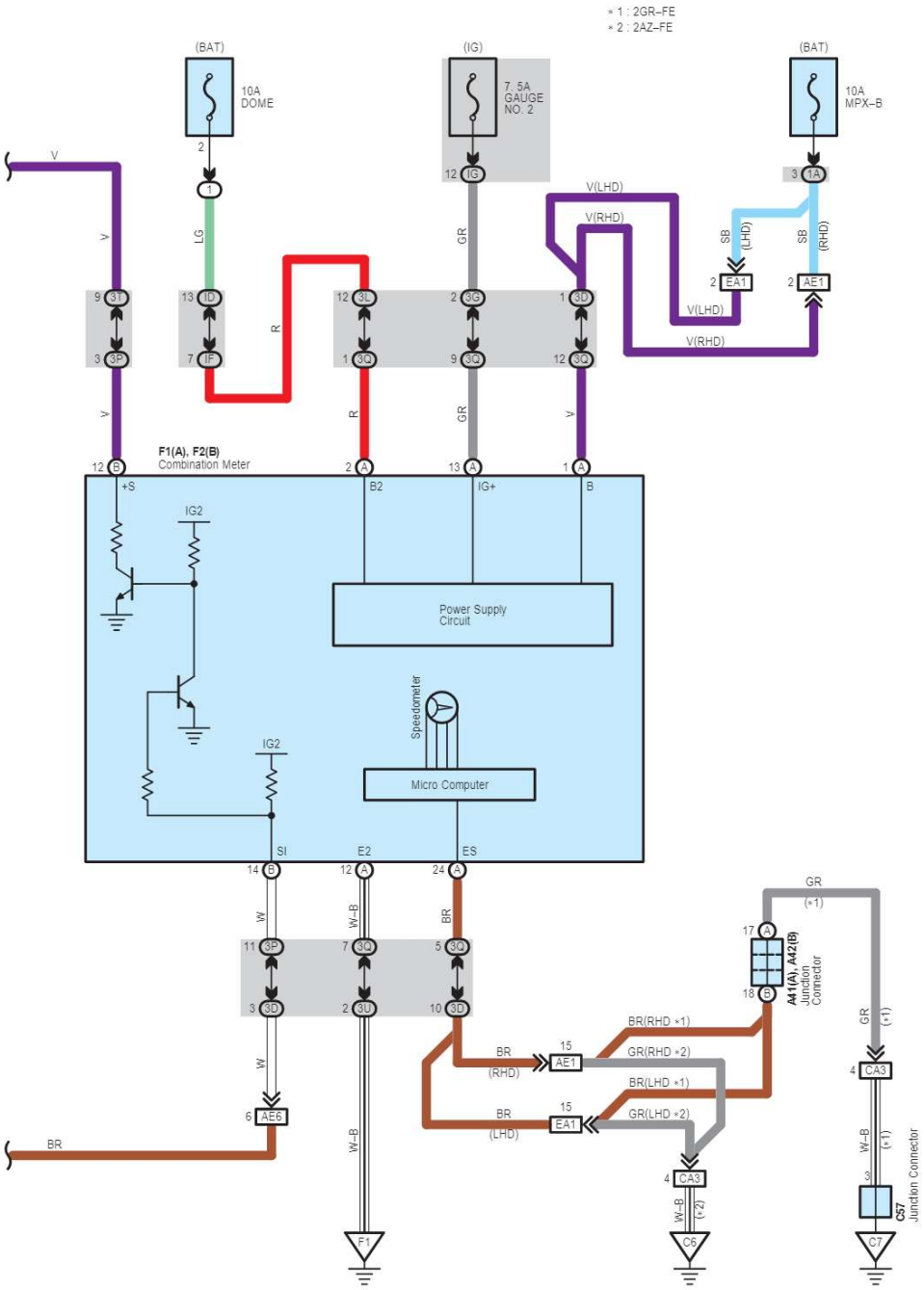
▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
P1	75 (LHD)	Quarter Panel RH
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
15A
RADIO
NO. 1
(ACC)
7. 5A
RADIO
NO. 2
F15
Antenna Amplifier
F6(A), F7(B), F8(C)
Radio Receiver Assembly
GND
FL−
FL+
RL−
RL+
RR−
RR+
FR−
FR+
B
ACC
SPD
ANT
TWL−
TWL+
F21
Tweeter (Front LH)
TWR−
TWR+
F23
Tweeter (Front RH)
I1
Speaker (Front Door LH)
O12
Speaker (Rear LH)
O13
Speaker (Rear RH)
H1
Speaker (Front Door RH)
F2


A25(B), A26(A)
Skid Control ECU with Actuator
F6(A), F7(B), F8(C)
Radio Receiver Assembly
SW1
SWG
SW2
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
(w/ VSC)
(w/o VSC)
LG
V
P
L
R
L
B
W
BR
Speed Sensors
E18(A), a1(B)
Spiral Cable
AU1
EAU
AU2
Seek+
MODE
Seek–
Volume+
Volume–
Steering SW LH
a1(B)
Steering Pad SW
BR


*1 : 2GR–FE
*2 : 2AZ–FE
(BAT)
10A DOME
(IG)
7. 5A GAUGE NO. 2
(BAT)
10A MPX–B
F1(A), F2(B) Combination Meter
+S
B2
IG+
B
IG2
Power Supply Circuit
Speedometer
Micro Computer
SI
E2
ES
V(LHD)
V(RHD)
SB (LHD)
SB (RHD)
BR(RHD *1)
GR(RHD *2)
BR(LHD *1)
GR(LHD *2)
A41(A), A42(B) Junction Connector
C57 Junction Connector
F1
C6
C7

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	B	54 (*2)	F1	A	57 (LHD)	F23		57 (LHD)
		64 (*4)			67 (RHD)			67 (RHD)
A26	A	52 (*1)	F2	B	57 (LHD)	H1		59 (LHD)
		54 (*2)			67 (RHD)			69 (RHD)
		62 (*3)	F6	A	57 (LHD)	I1		59 (LHD)
		64 (*4)			67 (RHD)			69 (RHD)
A41	A	57 (LHD)	F7	B	57 (LHD)	O12		58 (LHD)
		67 (RHD)			67 (RHD)			68 (RHD)
A42	B	57 (LHD)	F8	C	57 (LHD)	O13		58 (LHD)
		67 (RHD)			67 (RHD)			68 (RHD)
C57		53 (*1)	F15		57 (LHD)	a1	B	57 (LHD)
		63 (*3)			67 (RHD)			67 (RHD)
E18	A	56 (LHD)	F21		57 (LHD)			
		66 (RHD)			67 (RHD)			

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3D		
3G		
3L		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3T		
3U		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

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

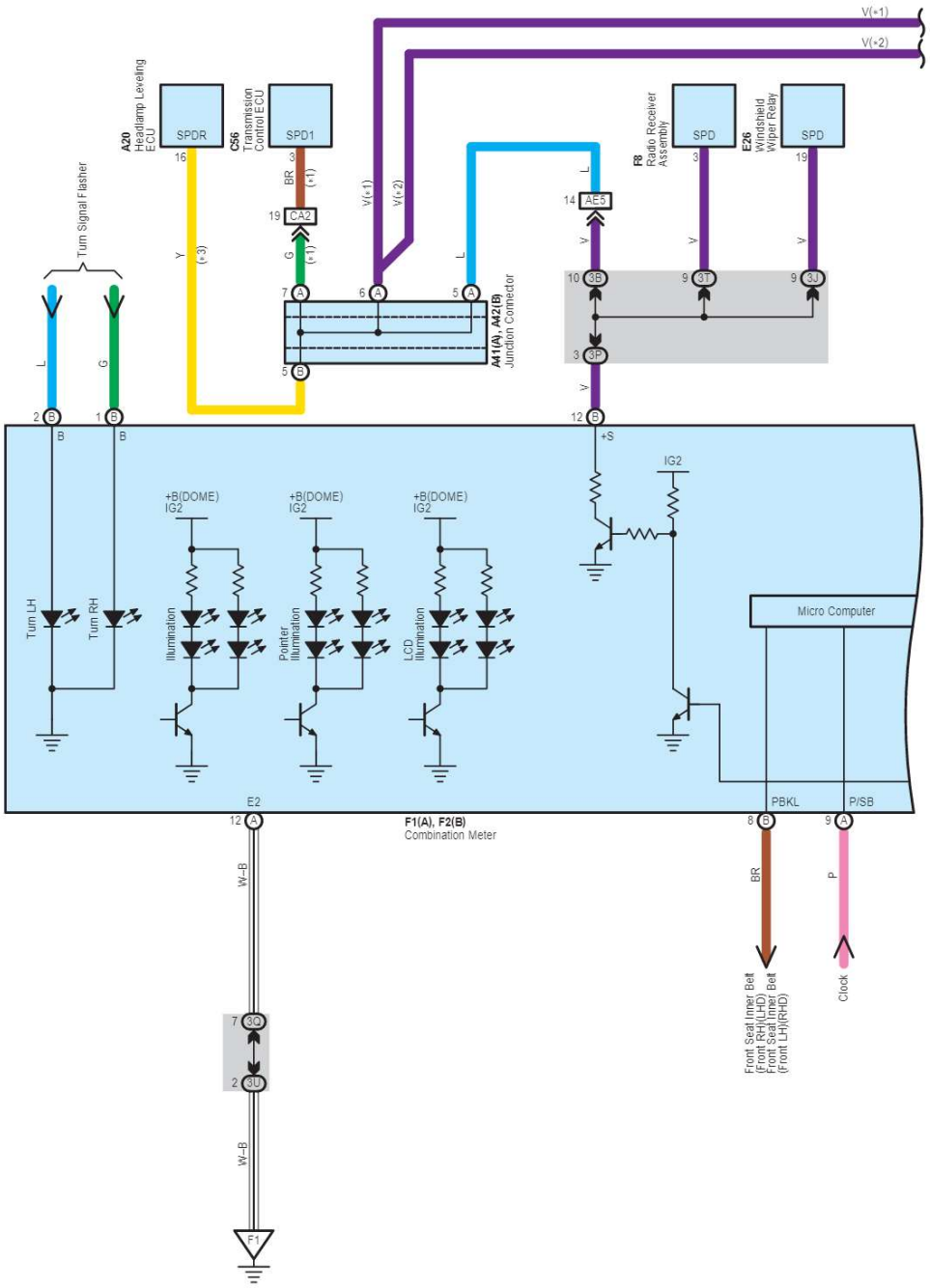
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE6	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE1	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
IE1	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
OF1	74 (LHD)	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Right)
	80 (RHD)	Floor No.2 Wire and Instrument Panel No.2 Wire (Right Kick Panel)

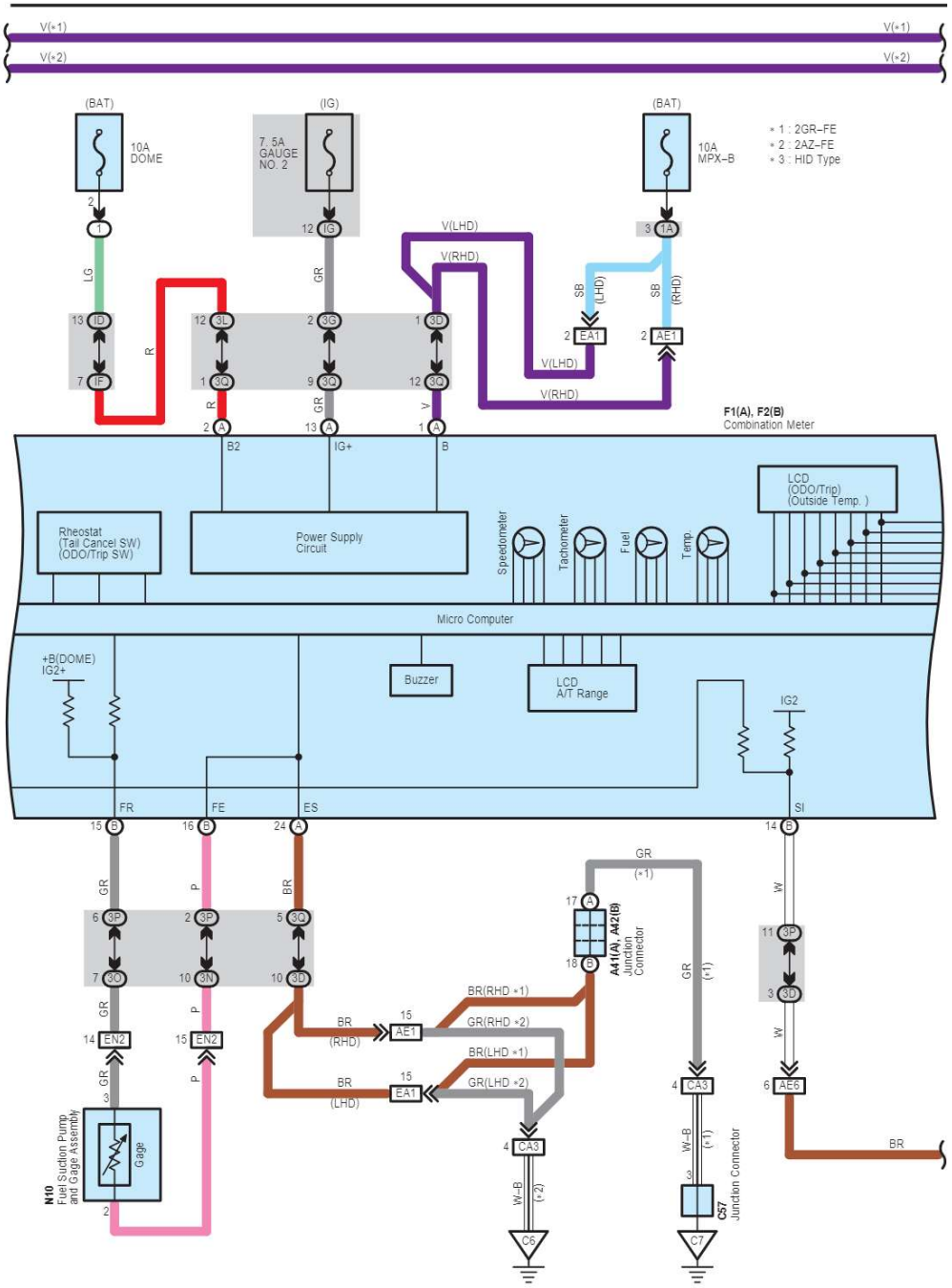
: **Ground Points**

Code	See Page	Ground Points Location
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
F2	74 (LHD)	Instrument Panel Brace RH
	80 (RHD)	

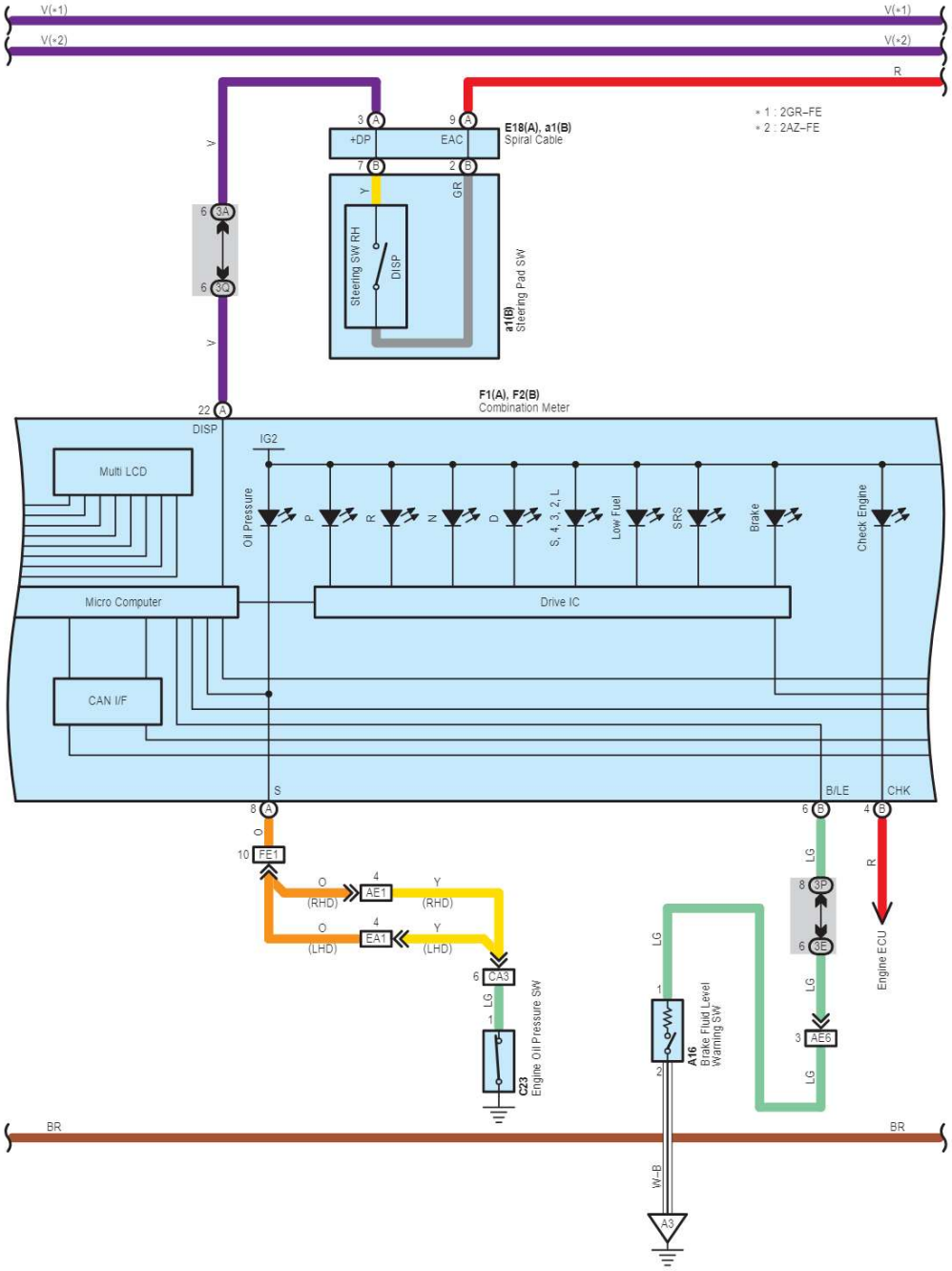
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

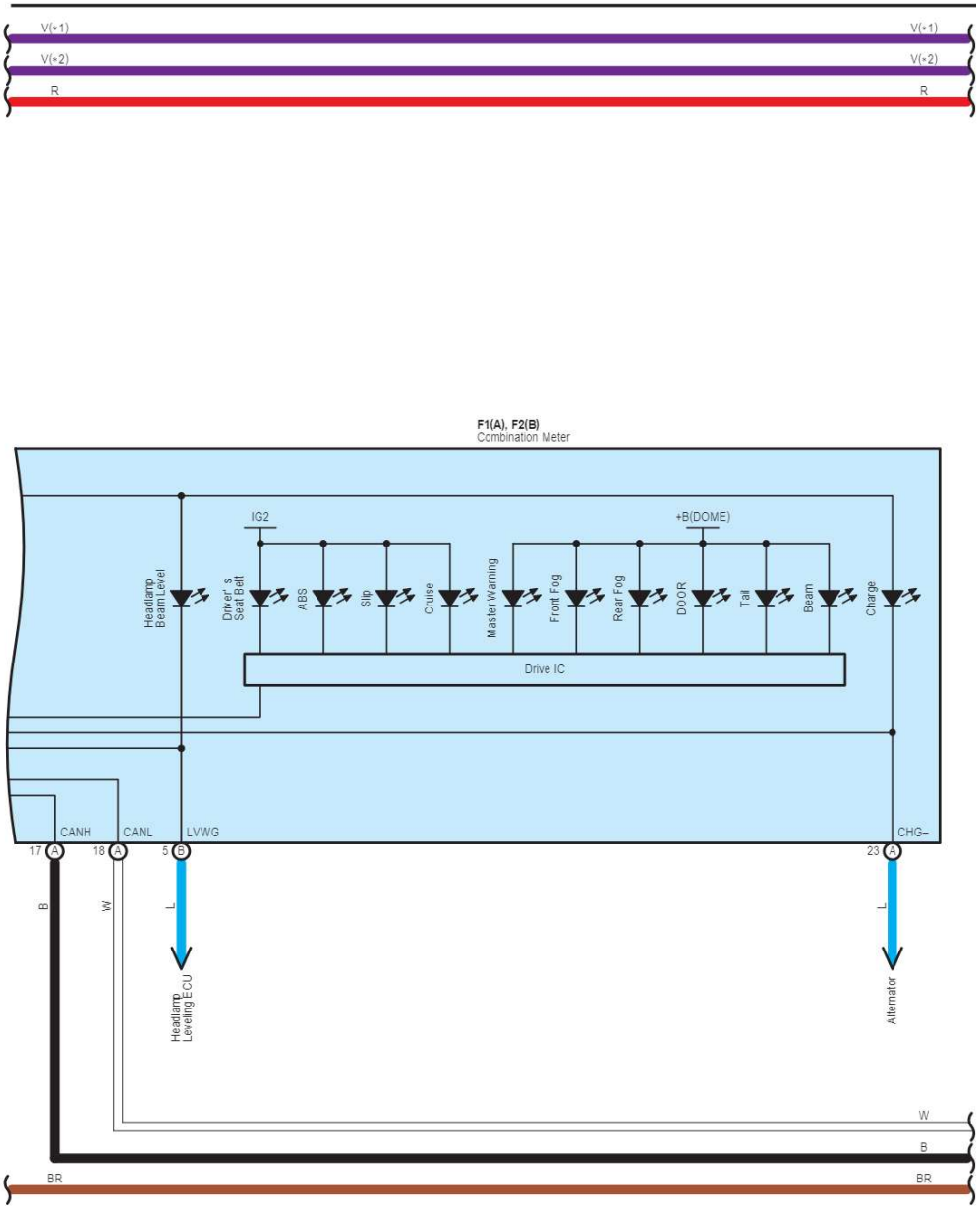
Combination Meter



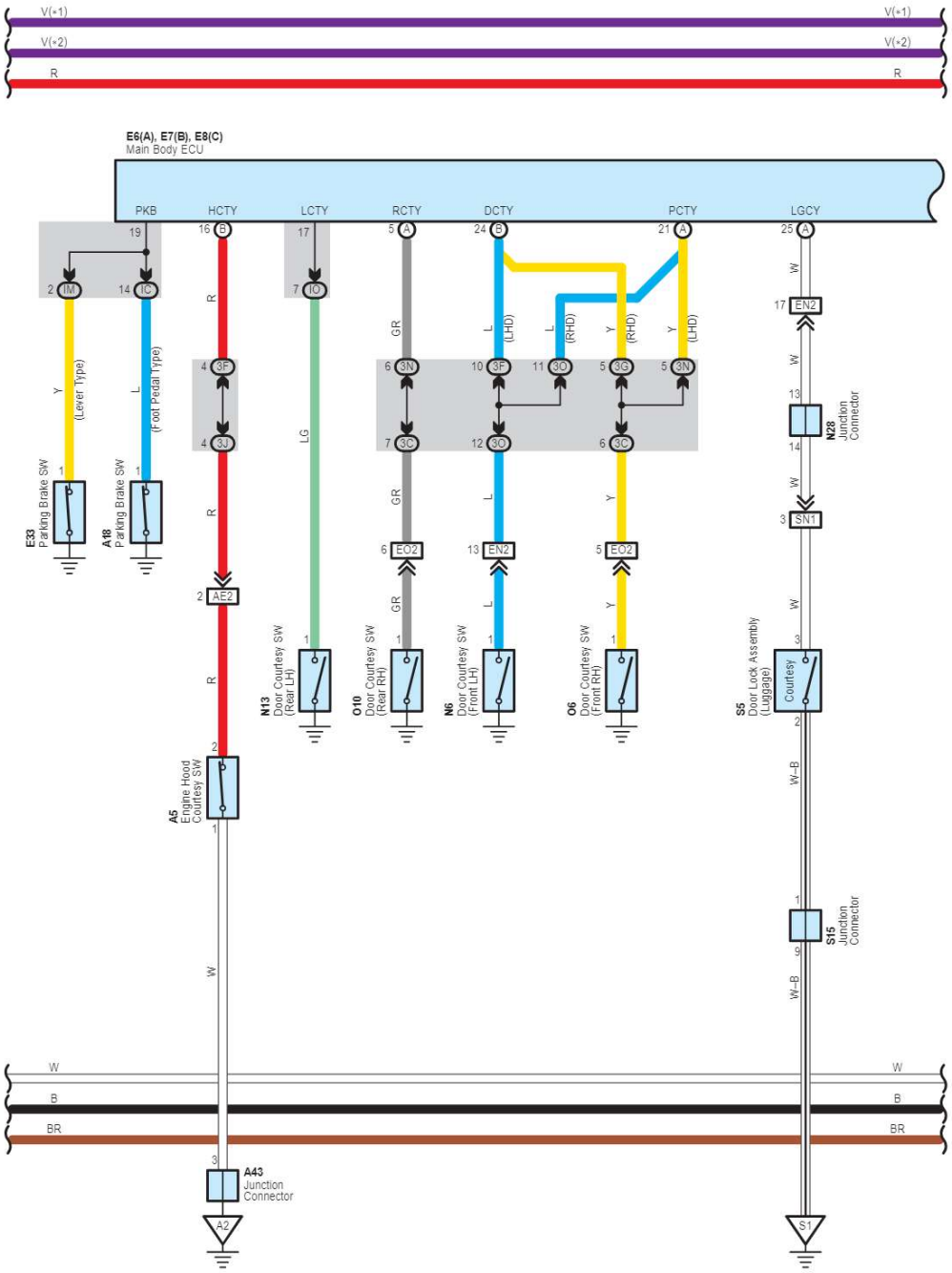

V(*1)
V(*2)
(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
* 1 : 2GR–FE
* 2 : 2AZ–FE
* 3 : HID Type
V(LHD)
V(RHD)
SB
(LHD)
SB
(RHD)
LG
GR
R
V
F1(A), F2(B)
Combination Meter
B2
IG+
B
Rheostat
(Tail Cancel SW)
(ODO/Trip SW)
Power Supply
Circuit
Speedometer
Tachometer
Fuel
Temp.
LCD
(ODO/Trip)
(Outside Temp.)
Micro Computer
+B(DOME)
IG2+
Buzzer
LCD
A/T Range
IG2
FR
FE
ES
SI
GR
(*1)
A41(A), A42(B)
Junction
Connector
BR(RHD *1)
GR(RHD *2)
BR
(RHD)
AE1
BR(LHD *1)
GR(LHD *2)
BR
(LHD)
EA1
W
BR
W–B
(*1)
W–B
(*2)
C57
Junction Connector
N10
Fuel Suction Pump
and Gage Assembly
Gage

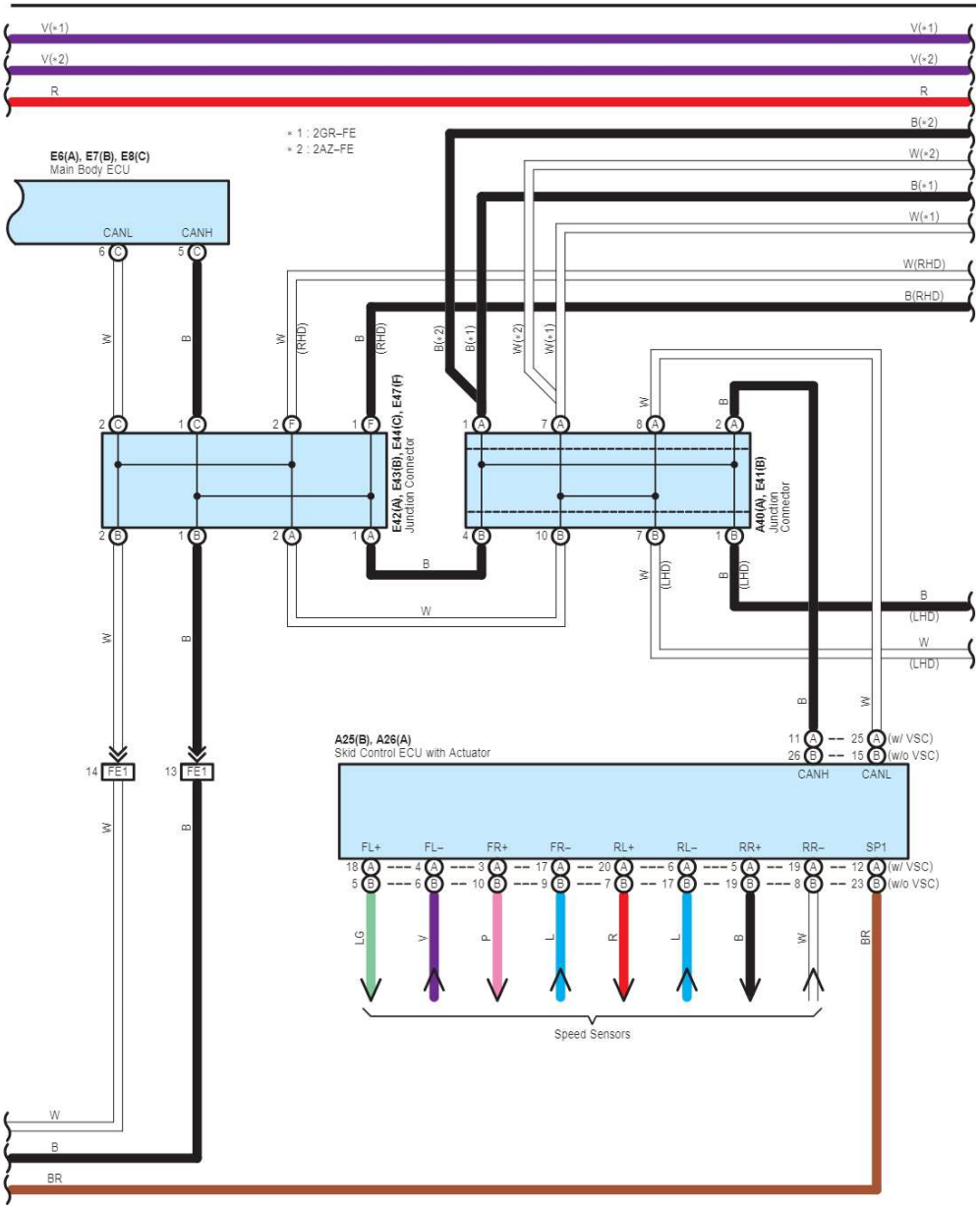
Combination Meter



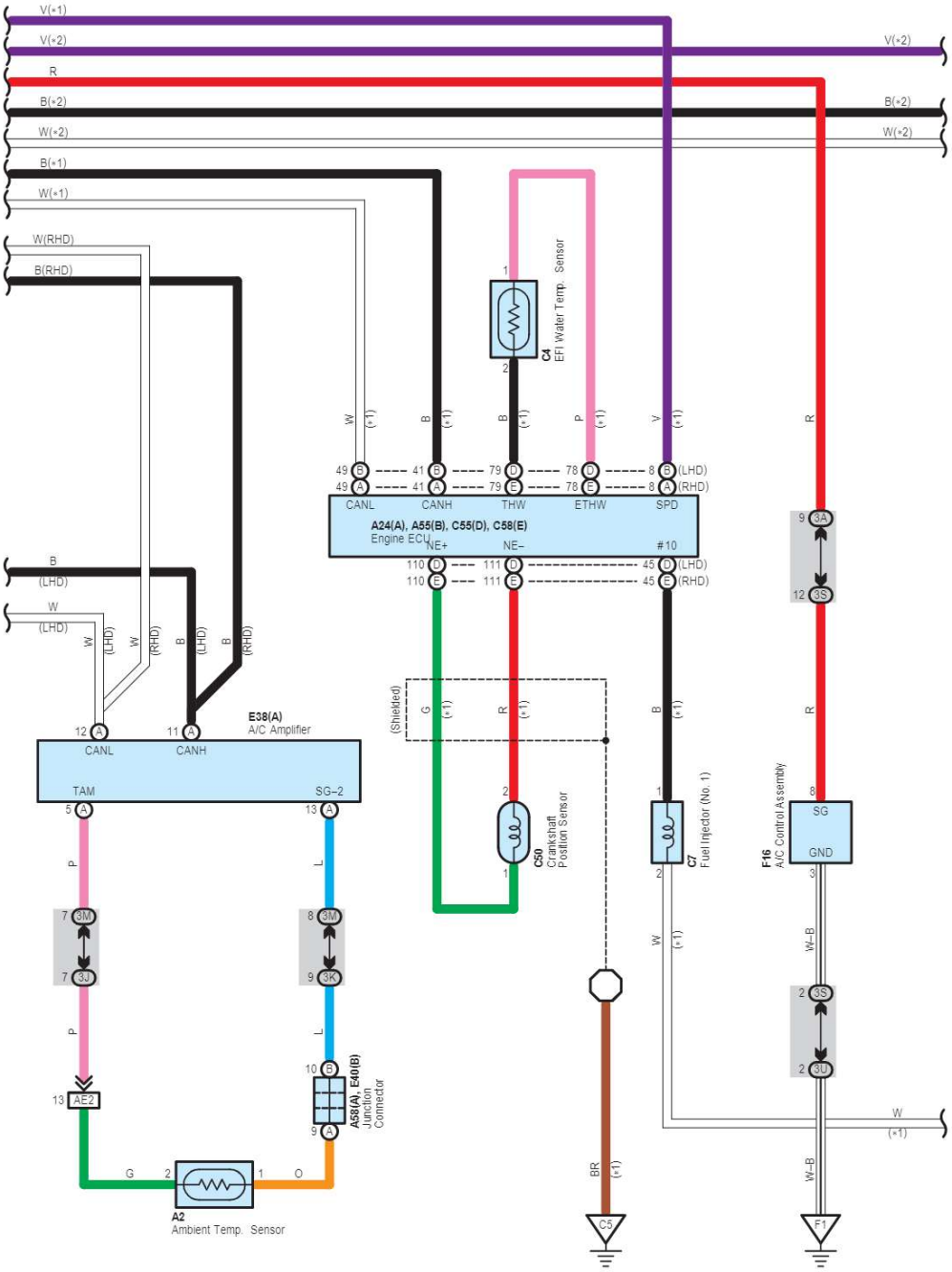

V(*1)
V(*2)
R
V(*1)
V(*2)
R
F1(A), F2(B)
Combination Meter
IG2
+B(DOME)
Headlamp Beam Level
Driver's Seat Belt
ABS
Slip
Cruise
Master Warning
Front Fog
Rear Fog
DOOR
Tail
Beam
Charge
Drive IC
CANH
CANL
LVWG
CHG–
17 A
18 A
5 B
23 A
B
W
L
L
Headlamp Leveling ECU
Alternator
W
B
BR
BR

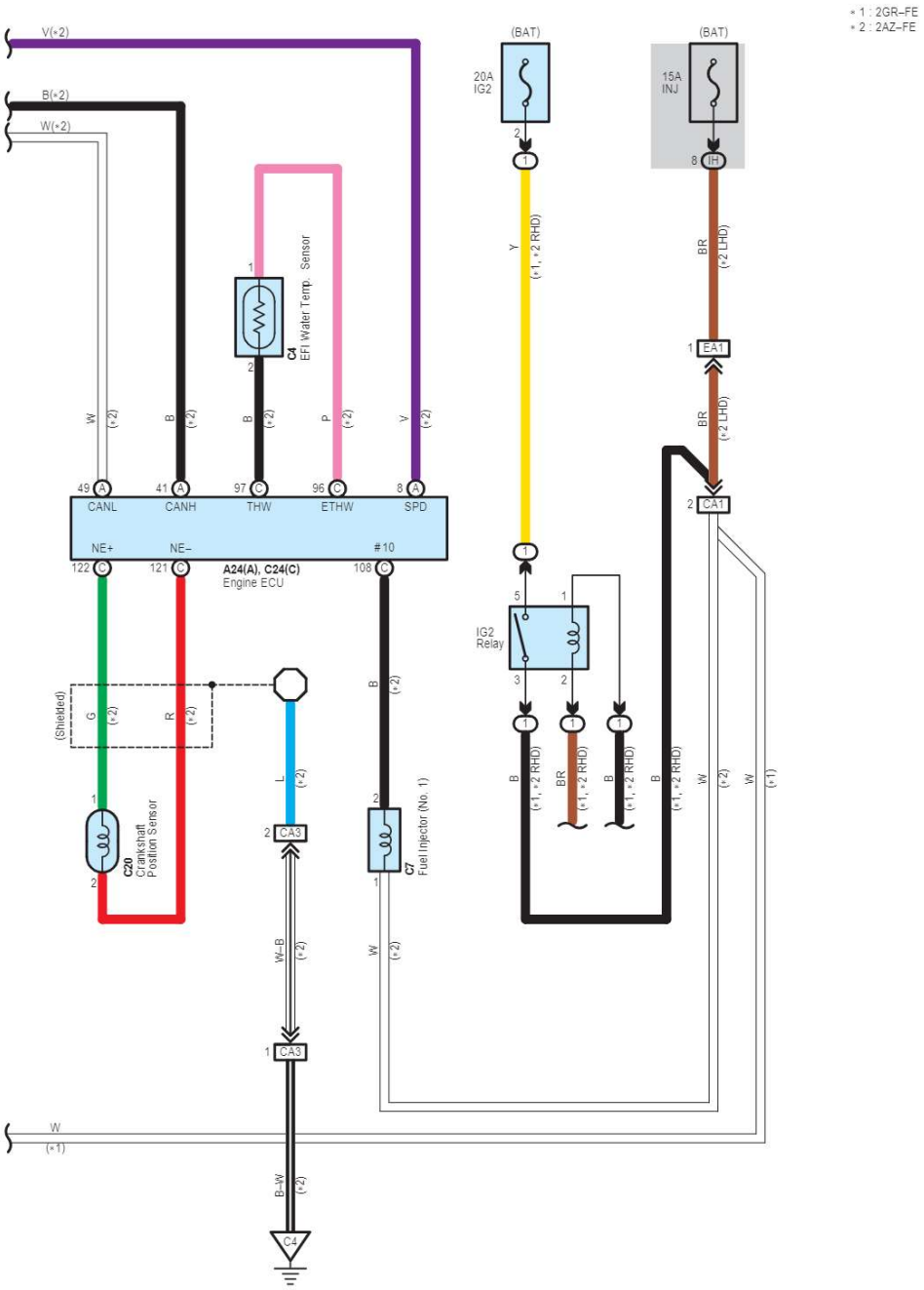
Combination Meter




V(*1)
V(*2)
R
* 1 : 2GR–FE
* 2 : 2AZ–FE
E6(A), E7(B), E8(C)
Main Body ECU
CANL
CANH
W
B
W (RHD)
B (RHD)
B(*2)
B(*1)
W(*2)
W(*1)
E42(A), E43(B), E44(C), E47(F)
Junction Connector
A40(A), E41(B)
Junction Connector
W (LHD)
B (LHD)
B(RHD)
W(RHD)
B(+2)
W(+2)
B(+1)
W(+1)
B
(LHD)
W
(LHD)
FE1
A25(B), A26(A)
Skid Control ECU with Actuator
CANH
CANL
(w/ VSC)
(w/o VSC)
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
LG
V
P
L
R
L
B
W
BR
Speed Sensors

Combination Meter




*1 : 2GR-FE
*2 : 2AZ-FE
V(*2)
B(*2)
W(*2)
(BAT)
20A
IG2
(BAT)
15A
INJ
C4
EFI Water Temp. Sensor
CANL
CANH
THW
ETHW
SPD
NE+
NE-
#10
A24(A), C24(C)
Engine ECU
IG2
Relay
EA1
CA1
CA3
(Shielded)
C20
Crankshaft
Position Sensor
C7
Fuel Injector (No. 1)
W-B
B-W
C4

Combination Meter

○ : **Parts Location**

Code		See Page
A2		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A5		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A16		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A18		57 (LHD)
		67 (RHD)
A20		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		62 (*3)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A43		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A55	B	52 (*1)
A58	A	57 (LHD)
		67 (RHD)

Code		See Page
C4		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C7		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C20		55 (*2)
		65 (*4)
C23		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C50		53 (*1)
		63 (*3)
C55	D	53 (*1)
C56		53 (*1)
		63 (*3)
C57		53 (*1)
		63 (*3)
C58	E	63 (*3)
E6	A	56 (LHD)
		66 (RHD)
E7	B	56 (LHD)
		66 (RHD)
E8	C	56 (LHD)
		66 (RHD)
E18	A	56 (LHD)
		66 (RHD)
E26		56 (LHD)
		66 (RHD)
E33		56 (LHD)
		66 (RHD)
E38	A	56 (LHD)
		66 (RHD)

Code		See Page
E40	B	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E44	C	48, 56 (LHD)
		48, 66 (RHD)
E47	F	48, 66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
F8		57 (LHD)
		67 (RHD)
F16		57 (LHD)
		67 (RHD)
N6		58 (LHD)
		68 (RHD)
N10		58 (LHD)
		68 (RHD)
N13		58 (LHD)
		68 (RHD)
N28		58 (LHD)
		68 (RHD)
O6		58 (LHD)
		68 (RHD)
O10		58 (LHD)
		68 (RHD)
S5		59 (LHD)
		69 (RHD)
S15		59 (LHD)
		69 (RHD)
a1	B	57 (LHD)
		67 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3F		
3G		
3J		
3K		
3L		
3M		
3N		
3O		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3T		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IH	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IO	32 (LHD)	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Floor Wire and Instrument Panel J/B (Behind the Glove Box)

Combination Meter

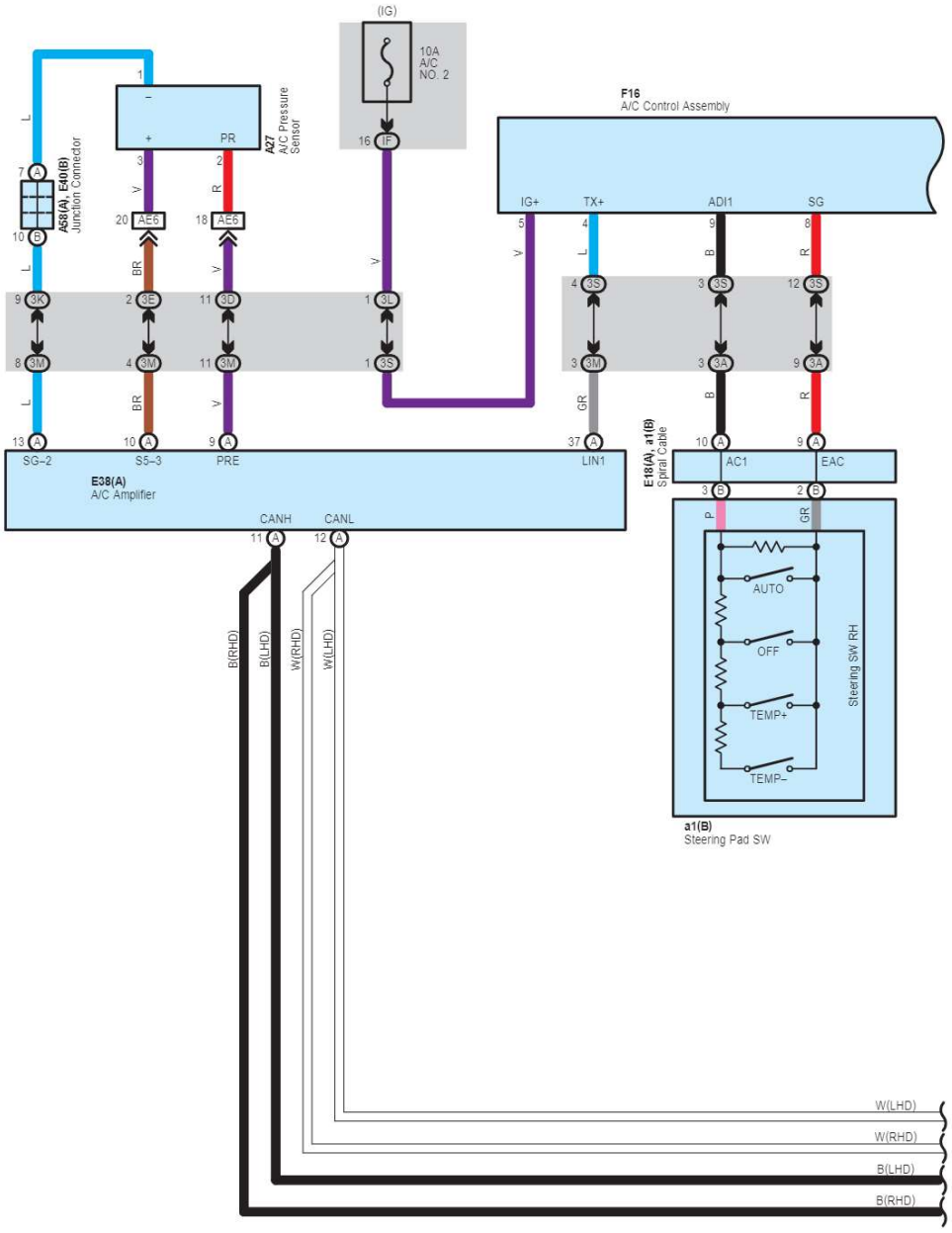
: **Connector Joining Wire Harness and Wire Harness**

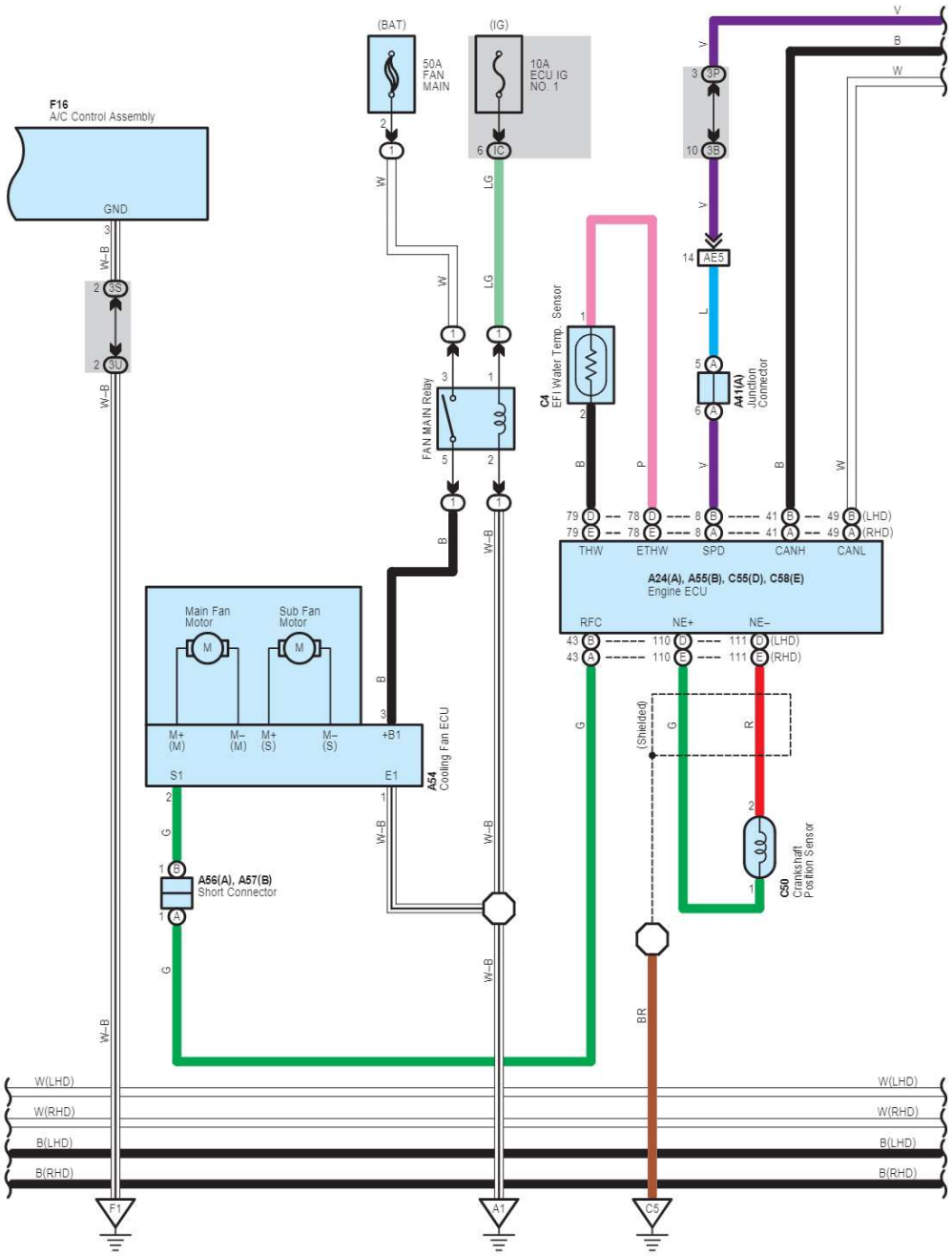
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA1	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
CA2	72 (*1)	
	78 (*3)	
CA3	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

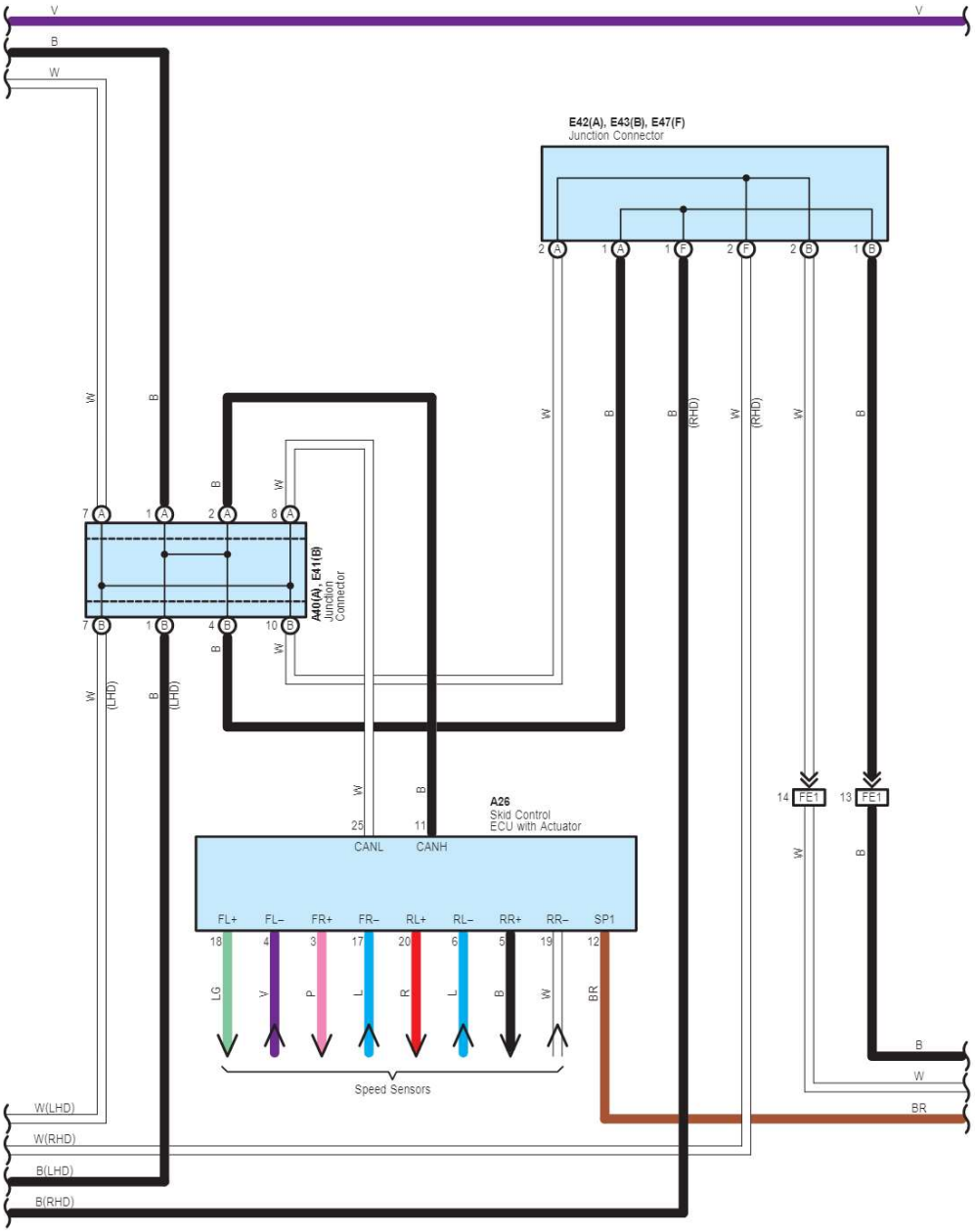
: **Ground Points**

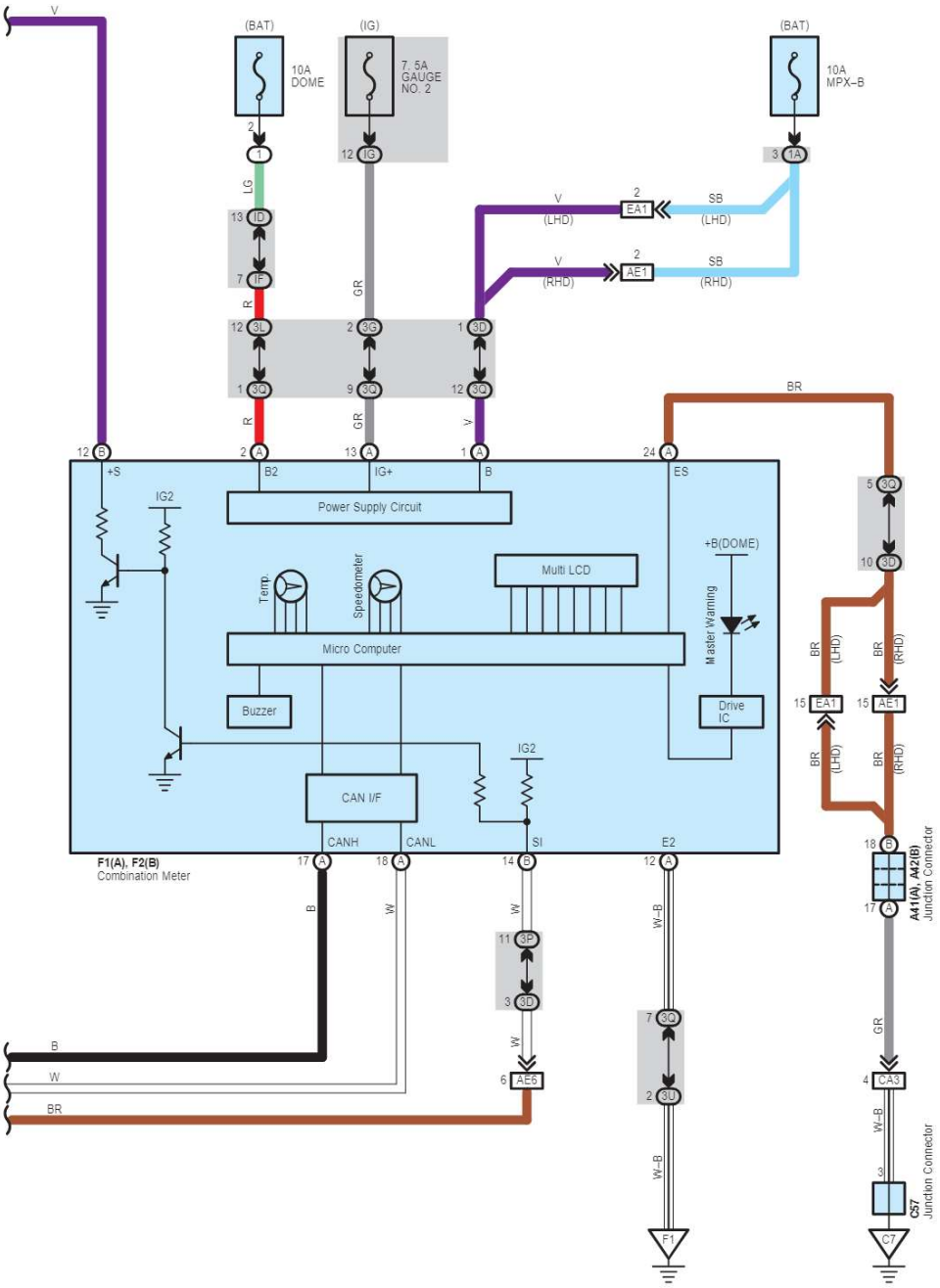
Code	See Page	Ground Points Location
A2	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


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


F16
A/C Control Assembly
GND
(BAT)
(IG)
50A
FAN
MAIN
10A
ECU IG
NO. 1
FAN MAIN Relay
C4
EFI Water Temp. Sensor
J41(A)
Junction
Connector
A24(A), A55(B), C55(D), C58(E)
Engine ECU
THW
ETHW
SPD
CANH
CANL
RFC
NE+
NE−
Main Fan
Motor
Sub Fan
Motor
M+
(M)
M−
(M)
M+
(S)
M−
(S)
+B1
S1
E1
A54
Cooling Fan ECU
A56(A), A57(B)
Short Connector
(Shielded)
C50
Crankshaft
Position Sensor
W(LHD)
W(RHD)
B(LHD)
B(RHD)
F1
A1
C5


V
V
B
W
E42(A), E43(B), E47(F)
Junction Connector
2 A
1 A
1 F
2 F
2 B
1 B
W
B
B
W
(RHD)
W
(RHD)
W
B
7 A
1 A
2 A
8 A
A40(A), E41(B)
Junction
Connector
7 B
1 B
4 B
10 B
B
W
W
(LHD)
B
(LHD)
W
B
A26
Skid Control
ECU with Actuator
25
11
CANL
CANH
14 FE1
13 FE1
W
B
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
18
4
3
17
20
6
5
19
12
LG
V
P
L
R
L
B
W
BR
Speed Sensors
B
W
BR
W(LHD)
W(RHD)
B(LHD)
B(RHD)


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
V
LG
GR
R
BR
SB
(LHD)
(RHD)
EA1
AE1
+S
B2
IG+
B
ES
IG2
Power Supply Circuit
+B(DOME)
Multi LCD
Temp
Speedometer
Master Warning
Micro Computer
Buzzer
Drive IC
CAN I/F
CANH
CANL
SI
E2
F1(A), F2(B)
Combination Meter
A41(A), A42(B)
Junction Connector
CS7
Junction Connector
F1
C7
CA3
AE6

Cooling Fan (2GR–FE)

System Outline

System Operation

When the ignition SW is turned to ON, 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 control assembly (A/C SW), A/C pressure sensor, EFI water temp. sensor and engine rotation are sent to the TERMINAL 2 as signals from engine ECU. 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
A24	A	62 (*3)
A26		52 (*1)
		62 (*3)
A27		52 (*1)
		62 (*3)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A54		52 (*1)
		62 (*3)
A55	B	52 (*1)
A56	A	57 (LHD)
		67 (RHD)
A57	B	57 (LHD)

Code		See Page
A57	B	67 (RHD)
A58	A	57 (LHD)
		67 (RHD)
C4		53 (*1)
		63 (*3)
C50		53 (*1)
		63 (*3)
C55	D	53 (*1)
C57		53 (*1)
		63 (*3)
C58	E	63 (*3)
E18	A	56 (LHD)
		66 (RHD)
E38	A	56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)

Code		See Page
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E47	F	48, 66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
F16		57 (LHD)
		67 (RHD)
a1	B	57 (LHD)
		67 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3E		
3G		
3K		
3L		
3M		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

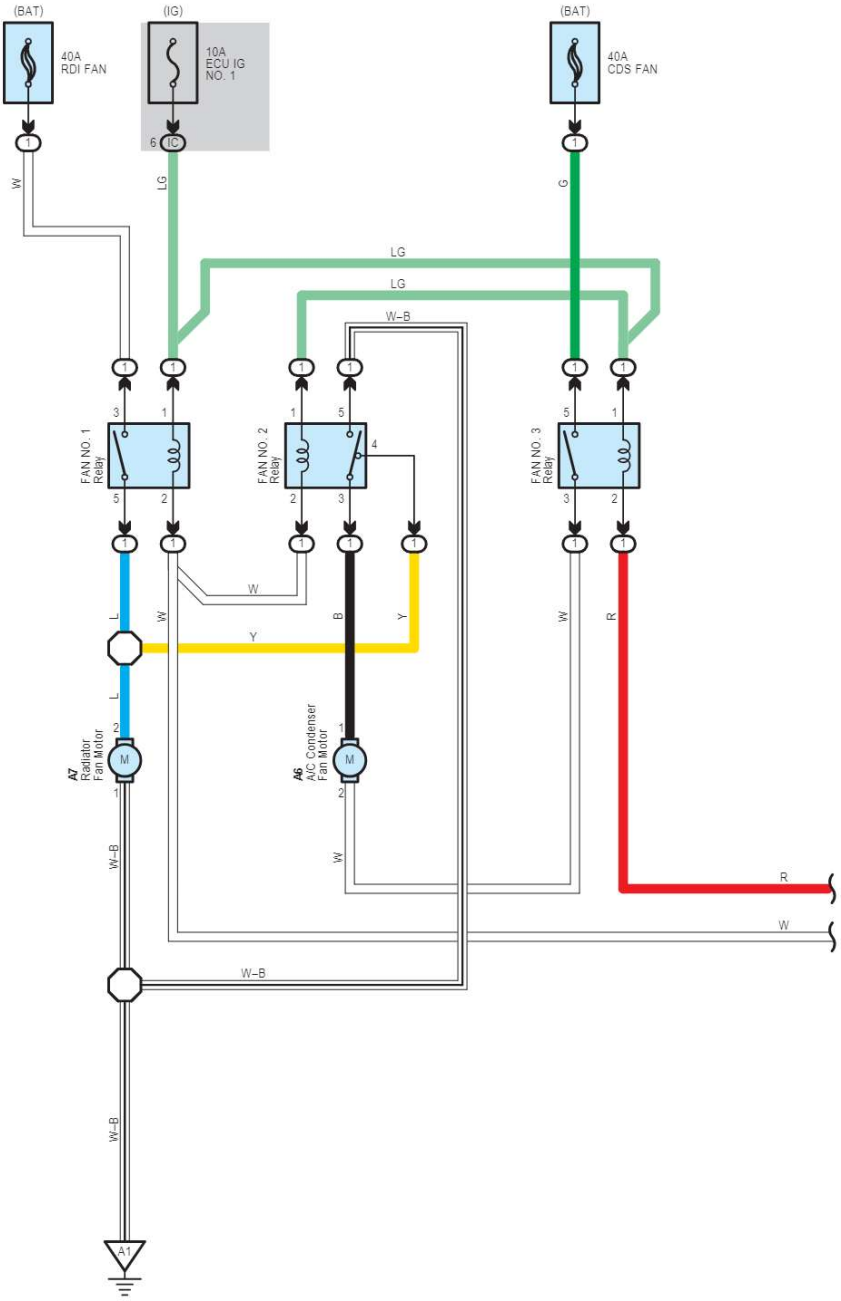
: **Connector Joining Wire Harness and Wire Harness**

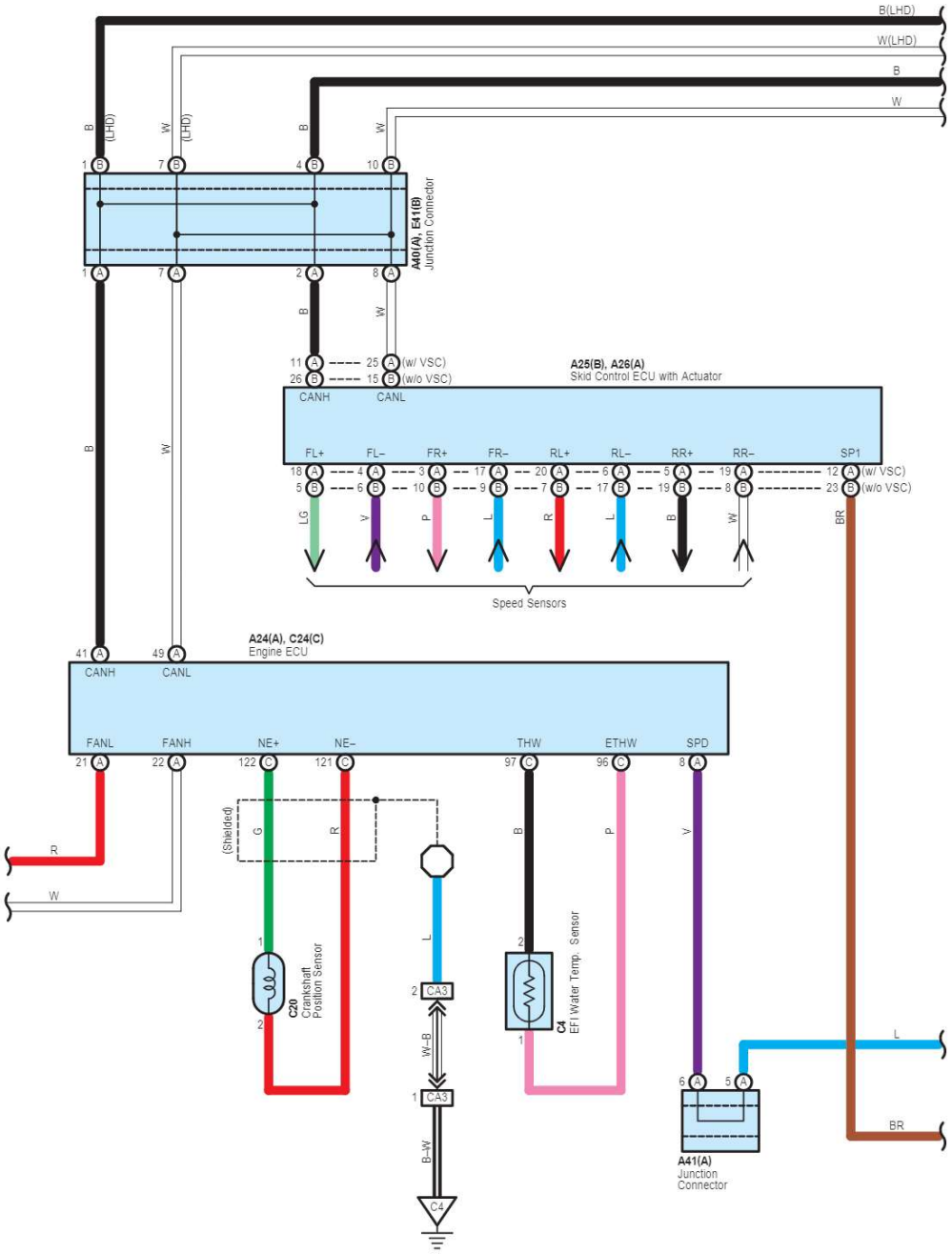
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	78 (*3)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

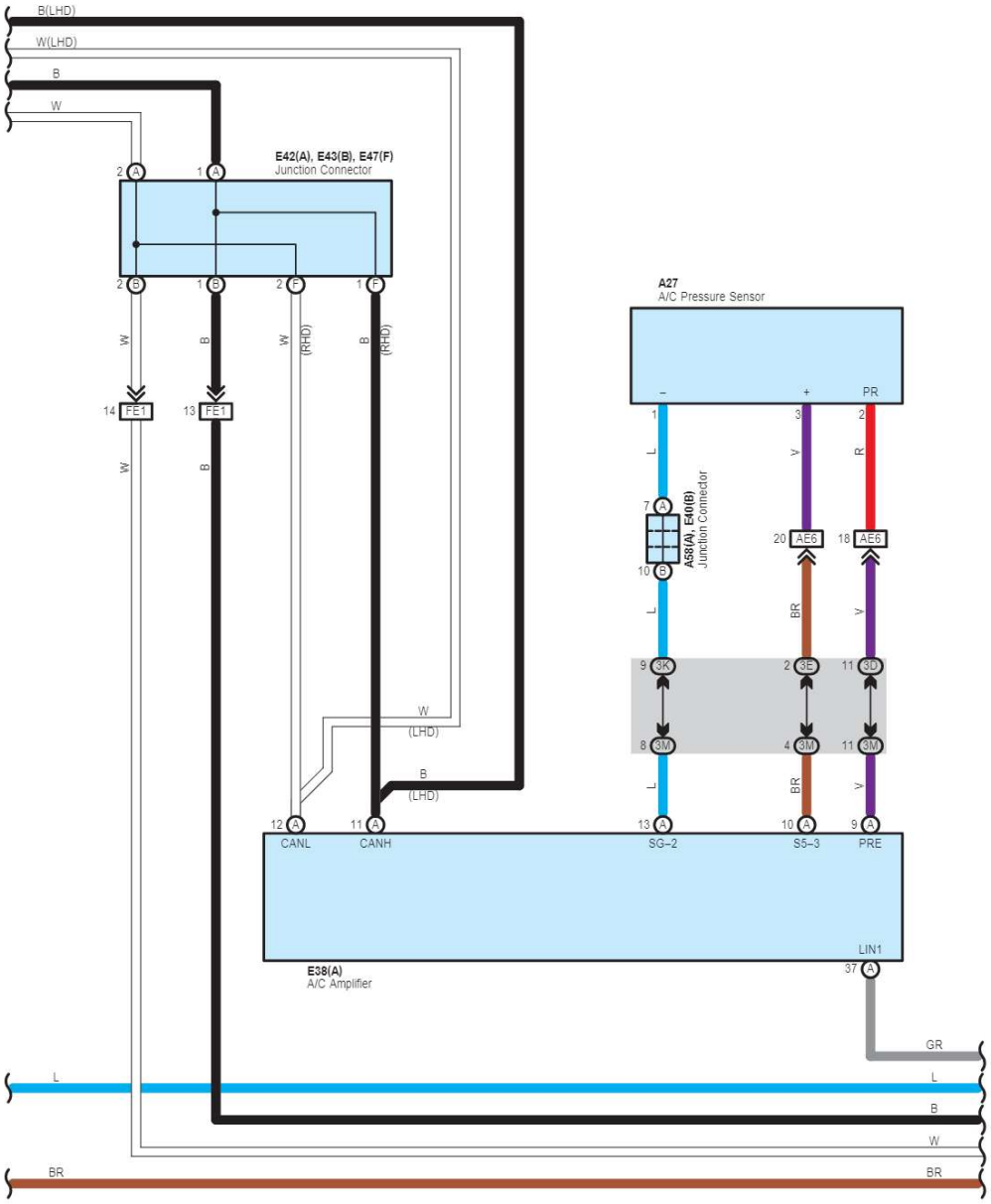
: **Ground Points**

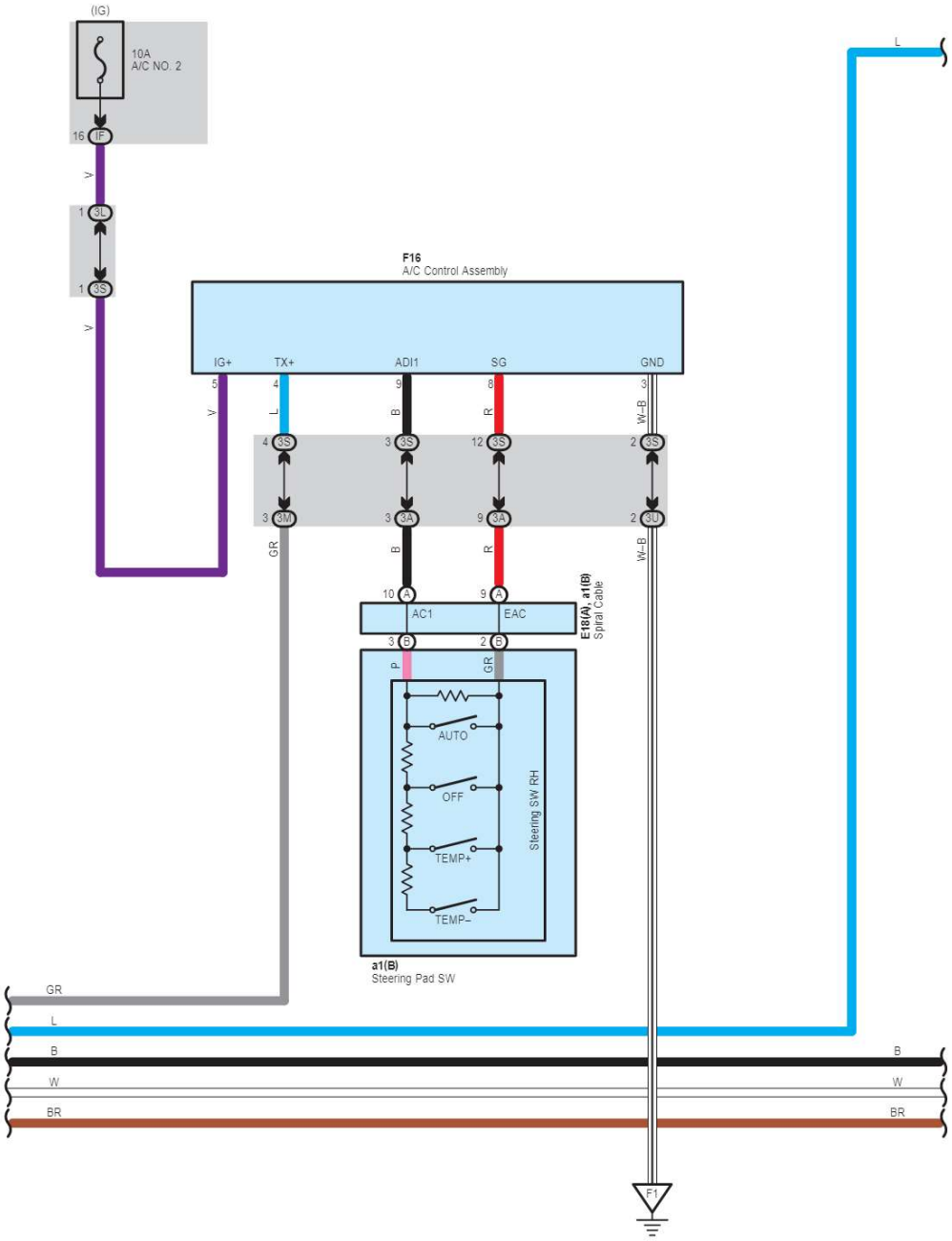
Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	78 (*3)	
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

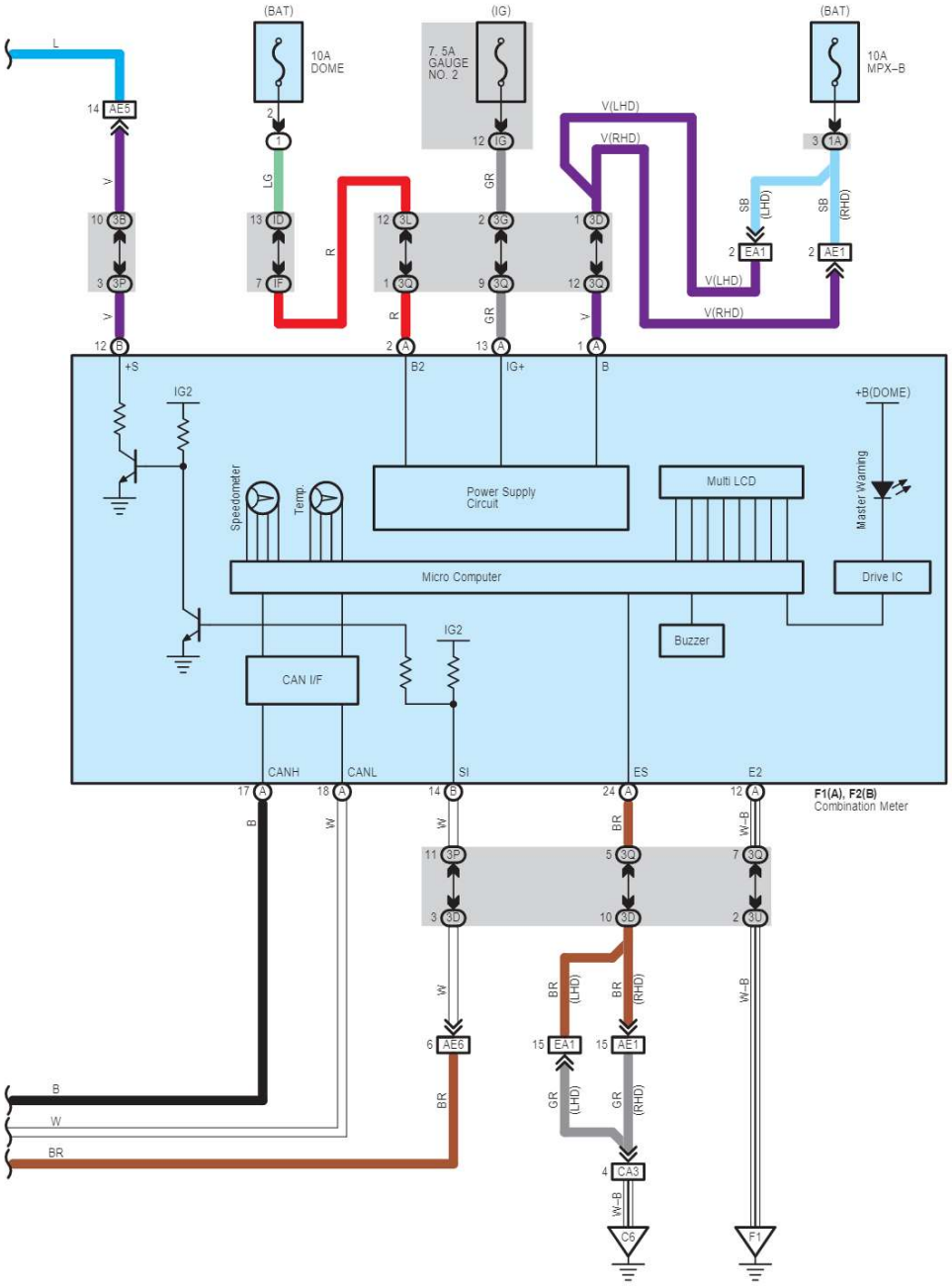
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE


(BAT)
40A
RDI FAN
(IG)
10A
ECU IG
NO. 1
IC
(BAT)
40A
CDS FAN
W
LG
G
LG
LG
W–B
FAN NO. 1
Relay
FAN NO. 2
Relay
FAN NO. 3
Relay
W
L
W
B
Y
Y
W
R
A7
Radiator
Fan Motor
A6
A/C Condenser
Fan Motor
M
M
W–B
W
R
W
W–B
W–B
A1


B(LHD)
W(LHD)
B
W
A40(A), E41(B)
Junction Connector
A25(B), A26(A)
Skid Control ECU with Actuator
CANH
CANL
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
SP1
(w/ VSC)
(w/o VSC)
Speed Sensors
A24(A), C24(C)
Engine ECU
FANL
FANH
NE+
NE–
THW
ETHW
SPD
(Shielded)
C20
Crankshaft Position Sensor
C4
EFI Water Temp. Sensor
CA3
W–B
B–W
C4
A41(A)
Junction Connector


B(LHD)
W(LHD)
B
W
E42(A), E43(B), E47(F)
Junction Connector
A27
A/C Pressure Sensor
–
+
PR
W
(RHD)
B
(RHD)
14 FE1
13 FE1
A58(A), E40(B)
Junction Connector
20 AE6
18 AE6
W
(LHD)
B
(LHD)
CANL
CANH
SG–2
S5–3
PRE
LIN1
E38(A)
A/C Amplifier
GR
L
B
W
BR


(IG)
10A
A/C NO. 2
16 IF
V
1 3L
1 3S
V
F16
A/C Control Assembly
IG+
TX+
ADI1
SG
GND
5
4
9
8
3
V
L
B
R
W–B
4 3S
3 3S
12 3S
2 3S
3 3M
3 3A
9 3A
2 3U
GR
B
R
W–B
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
L
GR
L
B
W
BR
B
W
BR
F1


(BAT)
10A
DOME
(IG)
7. 5A
GAUGE
NO. 2
(BAT)
10A
MPX–B
V(LHD)
V(RHD)
SB
(LHD)
SB
(RHD)
+S
B2
IG+
B
IG2
+B(DOME)
Speedometer
Temp.
Power Supply
Circuit
Multi LCD
Master Warning
Micro Computer
Drive IC
Buzzer
CAN I/F
CANH
CANL
SI
ES
E2
F1(A), F2(B)
Combination Meter
B
W
BR
GR
R
LG
V
W–B

System Outline

1. Low Speed Operation

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

When the A/C system is activated, the current from ECU IG NO.1 fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL (A) 21 of the engine ECU causing the FAN NO.3 relay to turn on. As a result, the current through the CDS FAN fuse flows to TERMINAL 5 of the FAN NO.3 relay to TERMINAL 3 to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 4 to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND. As this flowing in series for the motors, the motors rotate at low speed.

2. High Speed Operation

When the engine coolant is too high, the current through the ECU IG NO.1 fuse flows to the FAN NO.1 and NO.2 relay (Coil side) to TERMINAL (A) 22 of the engine ECU to GROUND, and the current through the ECU IG NO.1 fuse flows to the FAN NO.3 relay (Coil side) to TERMINAL (A) 21 of the engine control module to GROUND. As a result, FAN NO.1, NO.2 and NO.3 relay is turned on. At the same time, the current from the RDI FAN fuse flows to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to GROUND, and the current from the CDS FAN fuse flows to FAN NO.3 relay (Point side) to TERMINAL 2 of the A/C condenser fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 5 to GROUND.

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

○ : **Parts Location**

Code		See Page
A6		54 (*2)
		64 (*4)
A7		54 (*2)
		64 (*4)
A24	A	54 (*2)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	54 (*2)
		64 (*4)
A27		54 (*2)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)

Code		See Page
A41	A	67 (RHD)
		57 (LHD)
A58	A	67 (RHD)
C4		55 (*2)
		65 (*4)
C20		55 (*2)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
E18	A	56 (LHD)
		66 (RHD)
E38	A	56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)

Code		See Page
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E47	F	48, 66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
F16		57 (LHD)
		67 (RHD)
a1	B	57 (LHD)
		67 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3D		
3E		
3G		
3K		
3L		
3M		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
IC	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

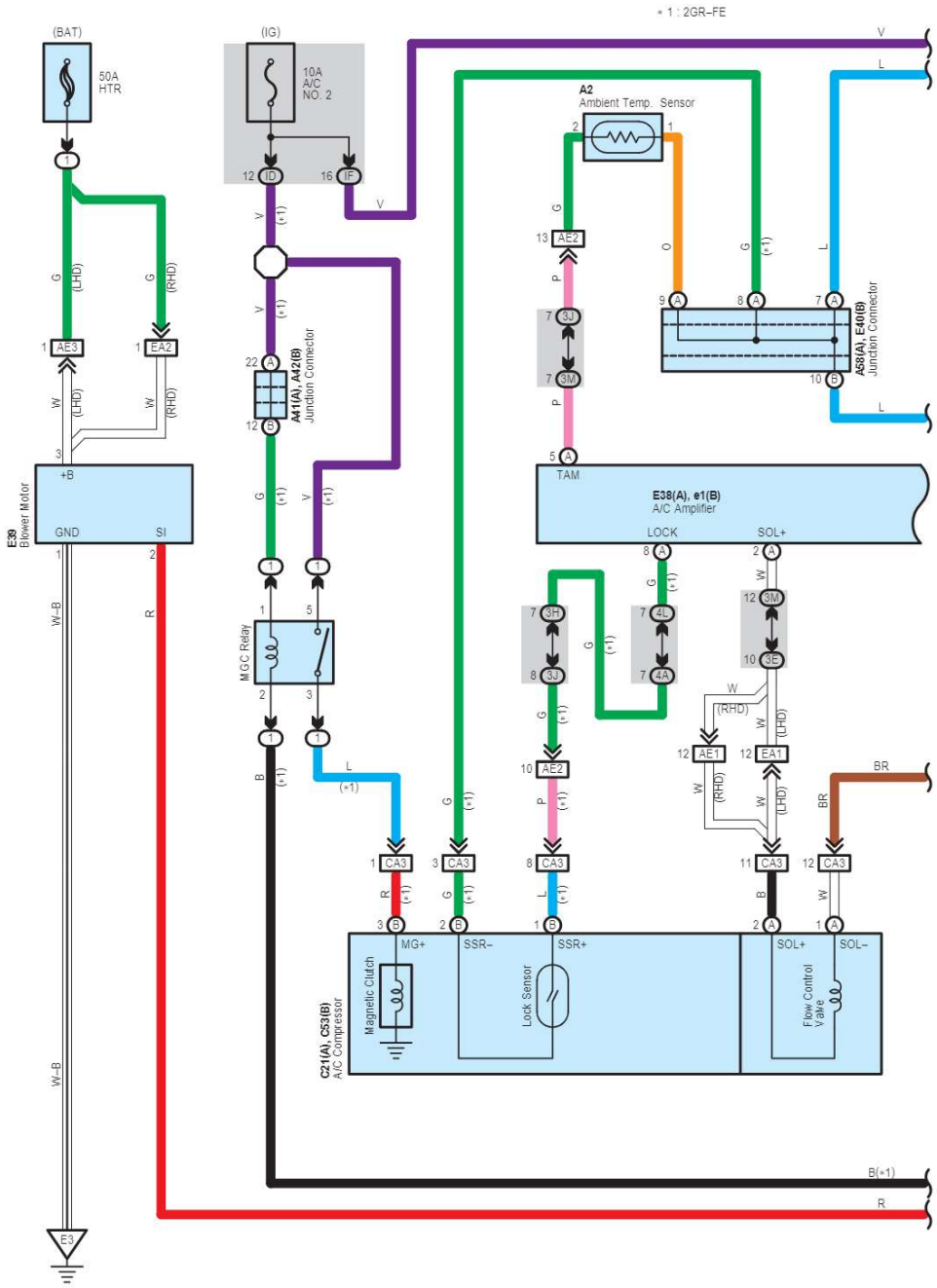
: **Connector Joining Wire Harness and Wire Harness**

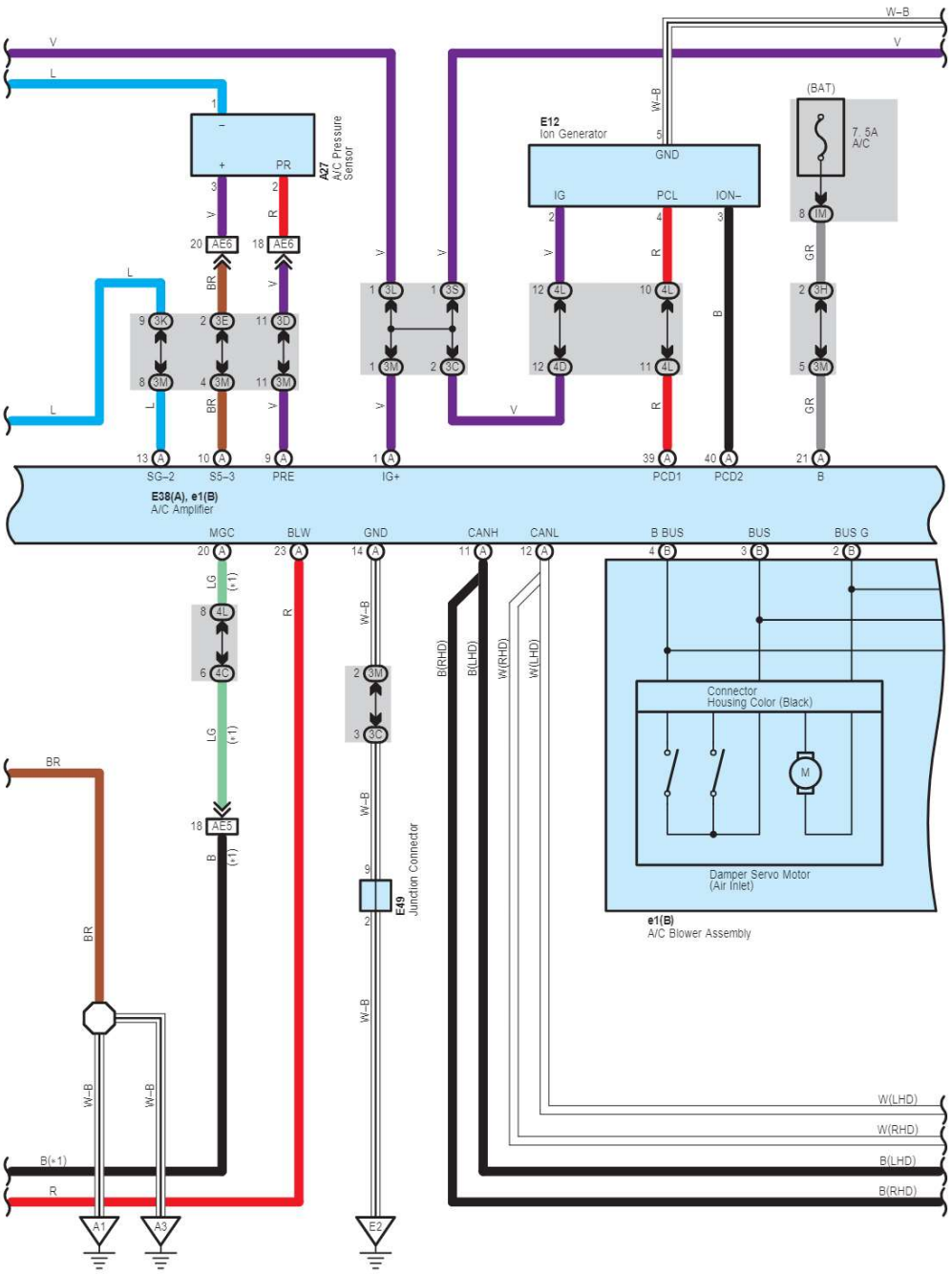
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE5	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA3	73 (*2)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

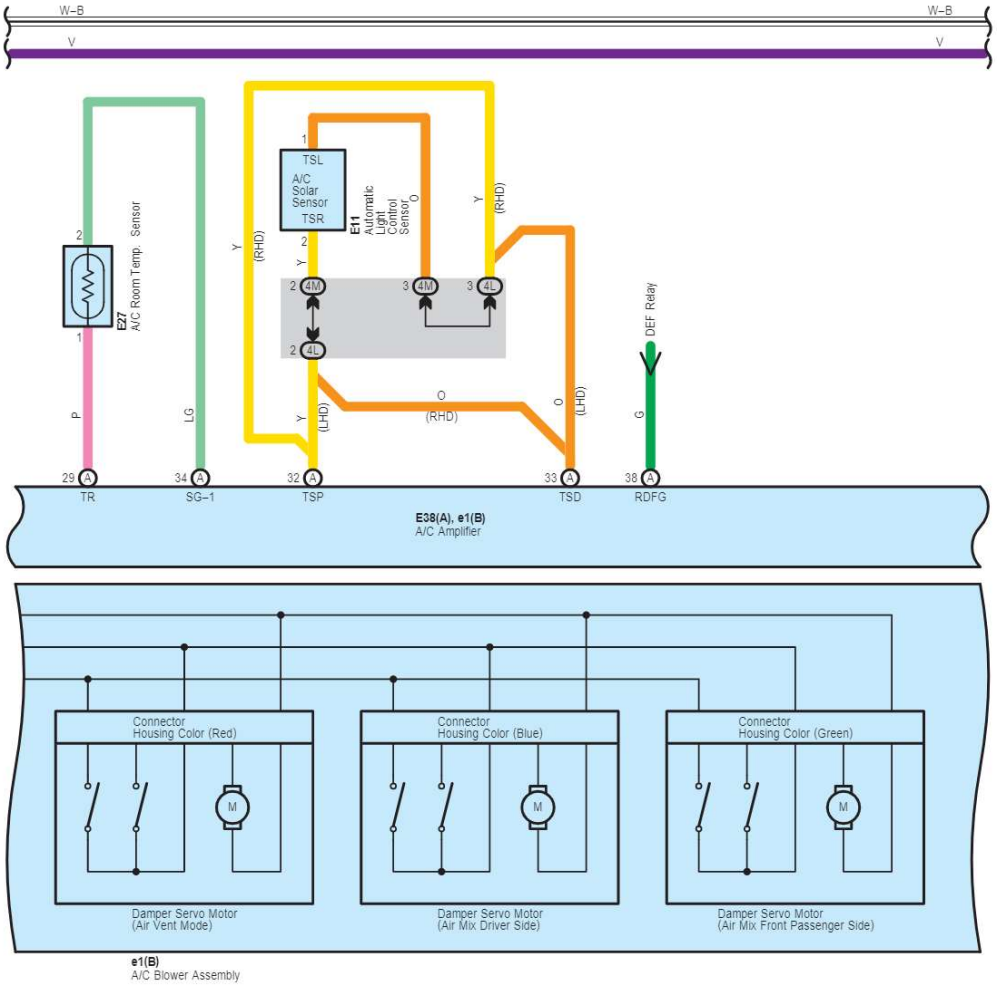
: **Ground Points**

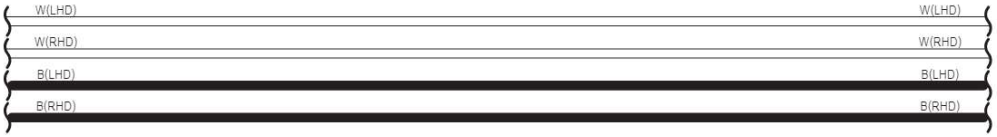
Code	See Page	Ground Points Location
A1	73 (*2)	Front Left Fender
	79 (*4)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C6	73 (*2)	
	79 (*4)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

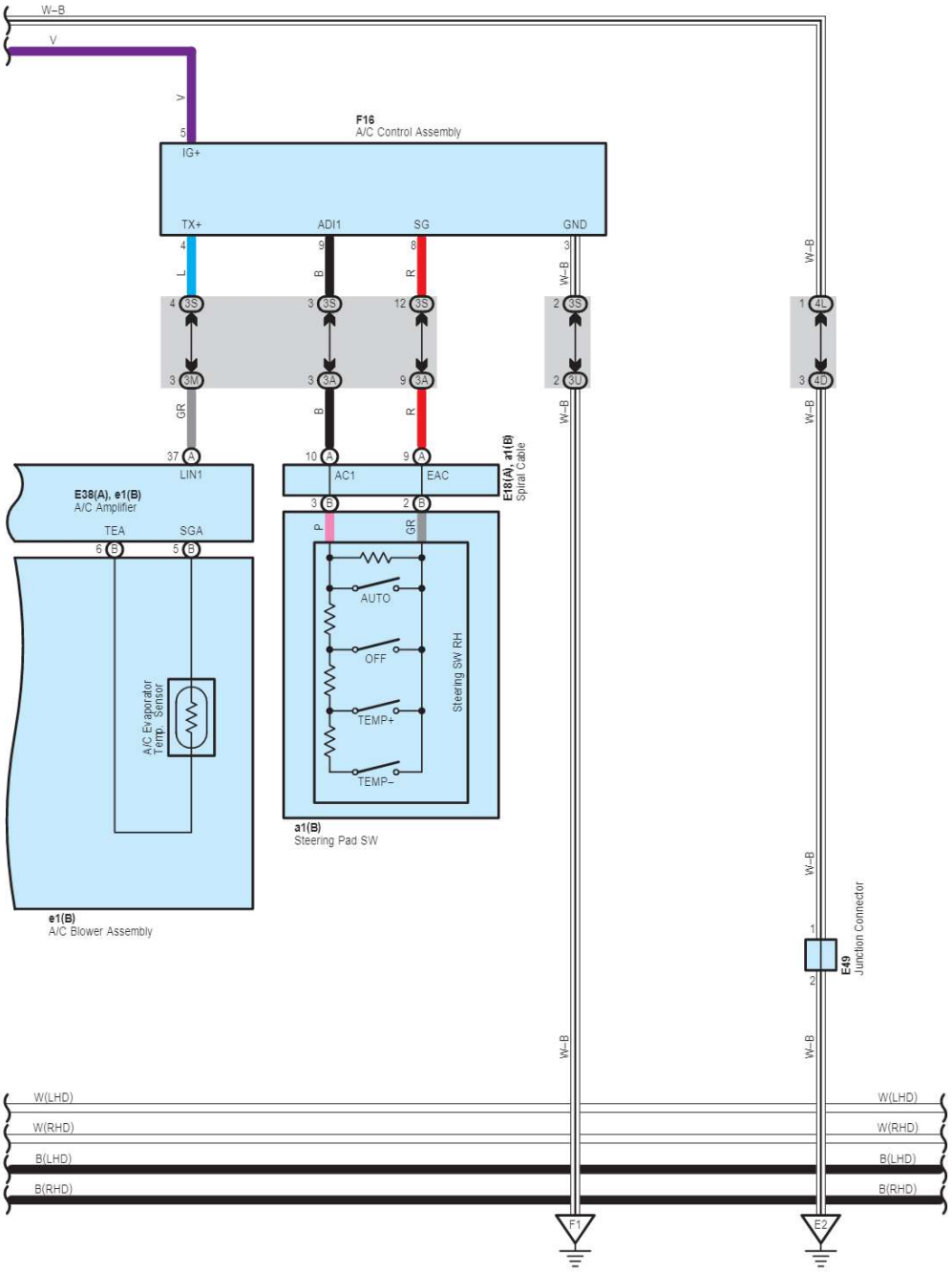
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

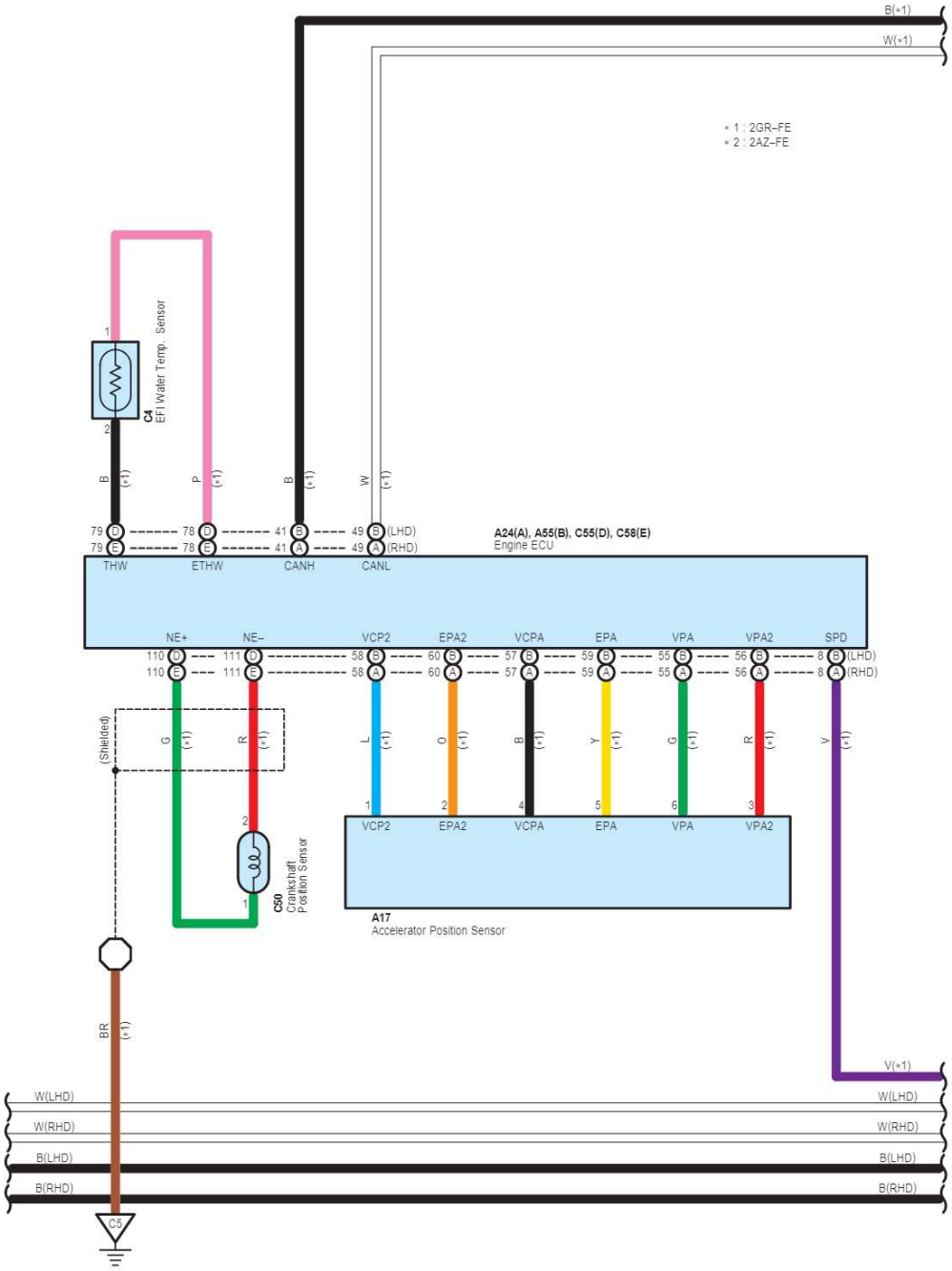

* 1 : 2GR-FE
(BAT)
50A HTR
(IG)
10A A/C NO. 2
A2 Ambient Temp. Sensor
AE3
EA2
(LHD)
(RHD)
A41(A), A42(B) Junction Connector
A58(A), E40(B) Junction Connector
E39 Blower Motor
+B
GND
SI
MGC Relay
TAM
E38(A), e1(B) A/C Amplifier
LOCK
SOL+
AE2
AE1
EA1
CA3
MG+
SSR-
SSR+
SOL+
SOL-
C21(A), C53(B) A/C Compressor
Magnetic Clutch
Lock Sensor
Flow Control Valve
B(+1)
R
W-B
E3

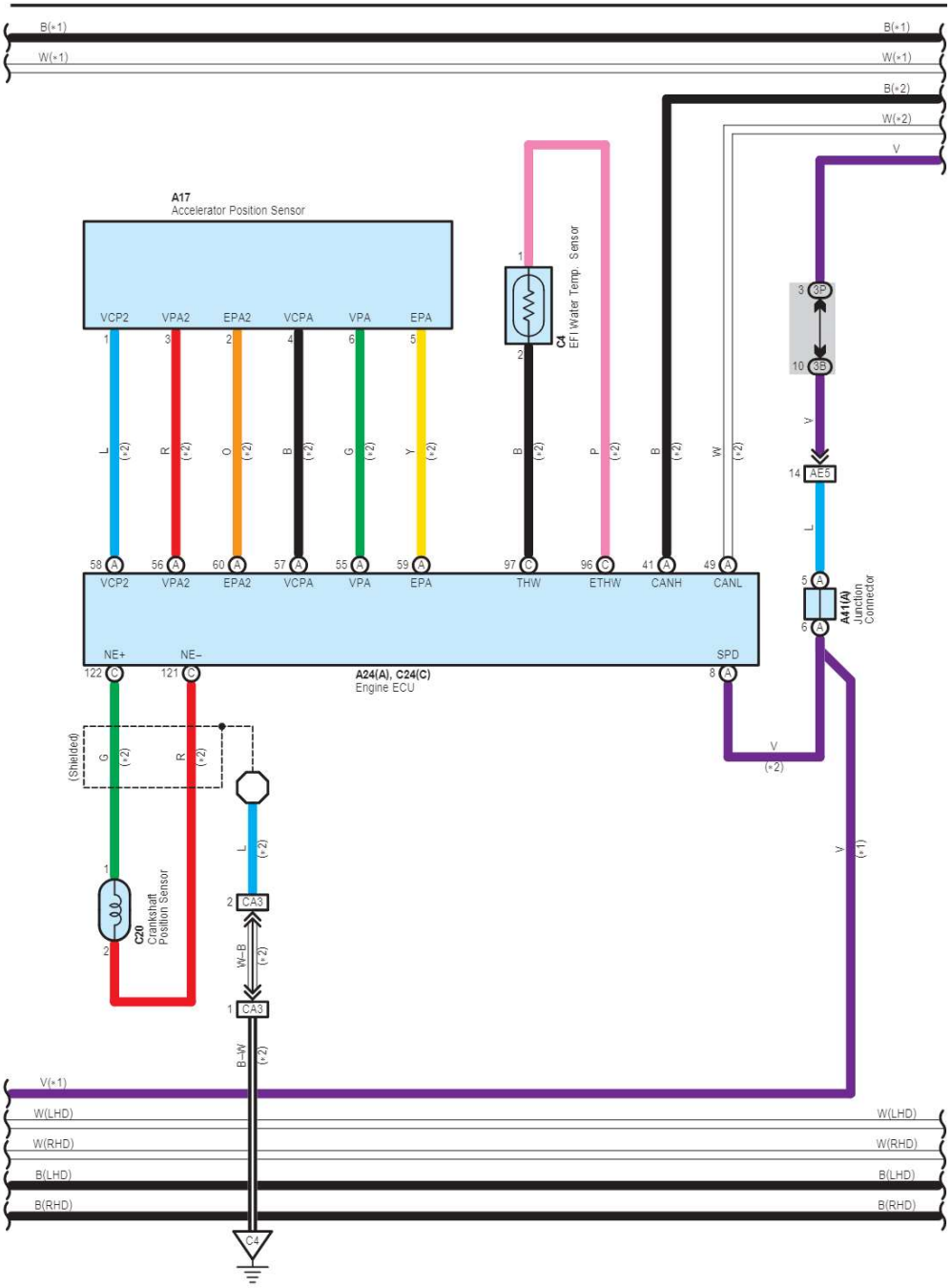

A27
A/C Pressure Sensor
E12
Ion Generator
GND
IG
PCL
ION–
(BAT)
7.5A
A/C
SG–2
S5–3
PRE
IG+
PCD1
PCD2
B
E38(A), e1(B)
A/C Amplifier
MGC
BLW
GND
CANH
CANL
B BUS
BUS
BUS G
Connector
Housing Color (Black)
M
Damper Servo Motor
(Air Inlet)
e1(B)
A/C Blower Assembly
E49
Junction Connector
W(LHD)
W(RHD)
B(LHD)
B(RHD)
B(+1)
R

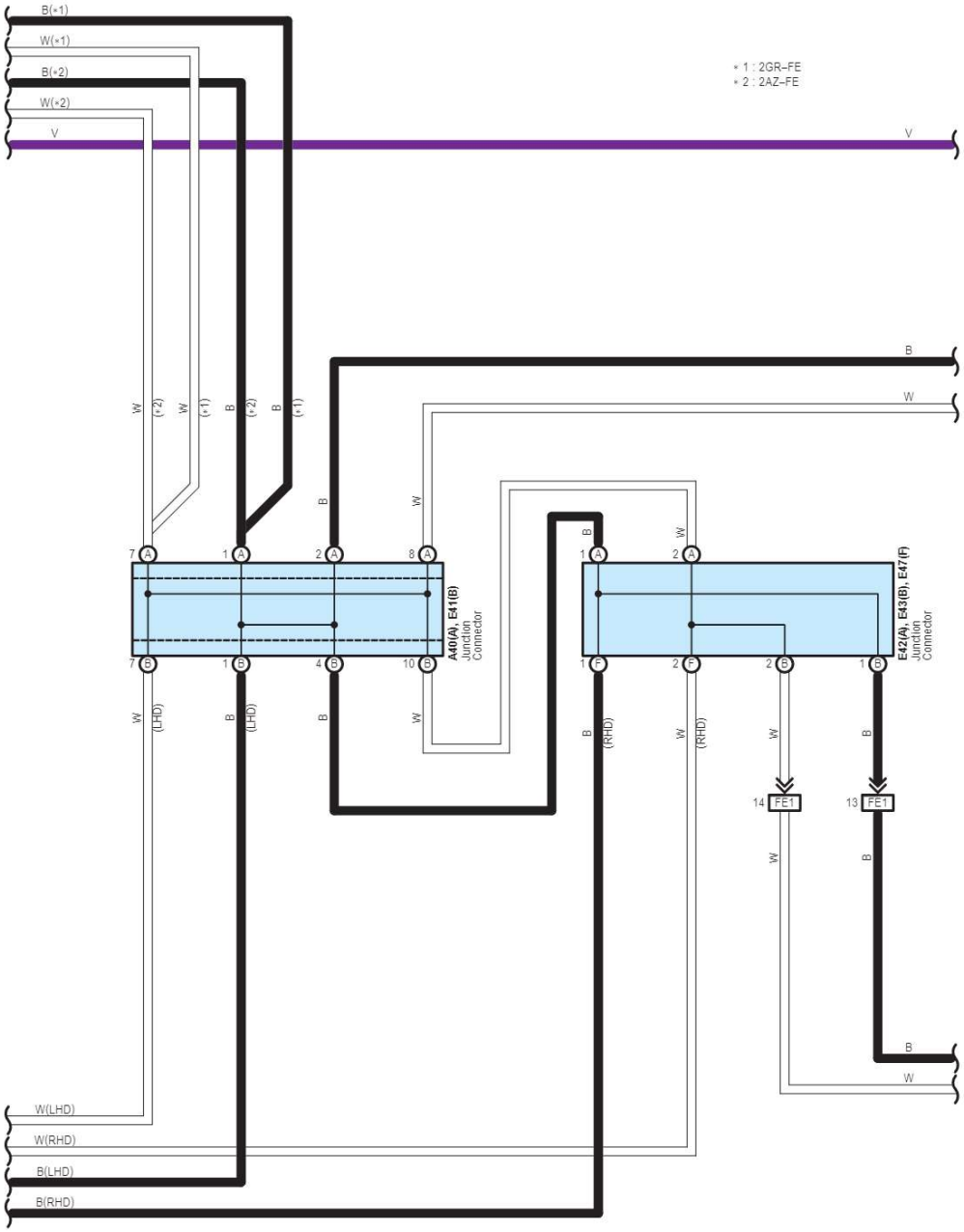

W–B
V
W–B
V
TSL
A/C Solar Sensor
TSR
E11
Automatic Light Control Sensor
E27
A/C Room Temp. Sensor
DEF Relay
Y (RHD)
O (RHD)
O (LHD)
Y (LHD)
P
LG
G
29 A TR
34 A SG–1
32 A TSP
33 A TSD
38 A RDFG
E38(A), e1(B)
A/C Amplifier
Connector Housing Color (Red)
Connector Housing Color (Blue)
Connector Housing Color (Green)
Damper Servo Motor (Air Vent Mode)
Damper Servo Motor (Air Mix Driver Side)
Damper Servo Motor (Air Mix Front Passenger Side)
e1(B)
A/C Blower Assembly

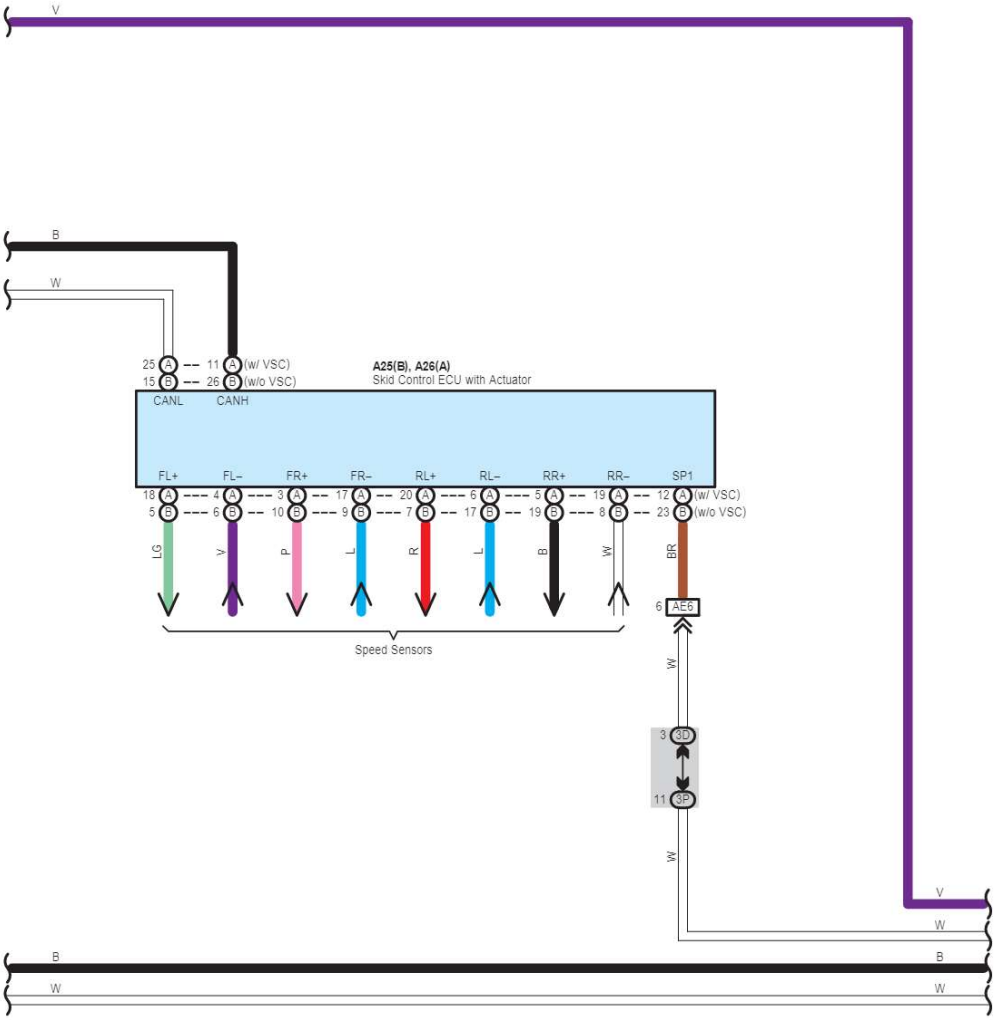

W(LHD)
W(RHD)
B(LHD)
B(RHD)
W(LHD)
W(RHD)
B(LHD)
B(RHD)

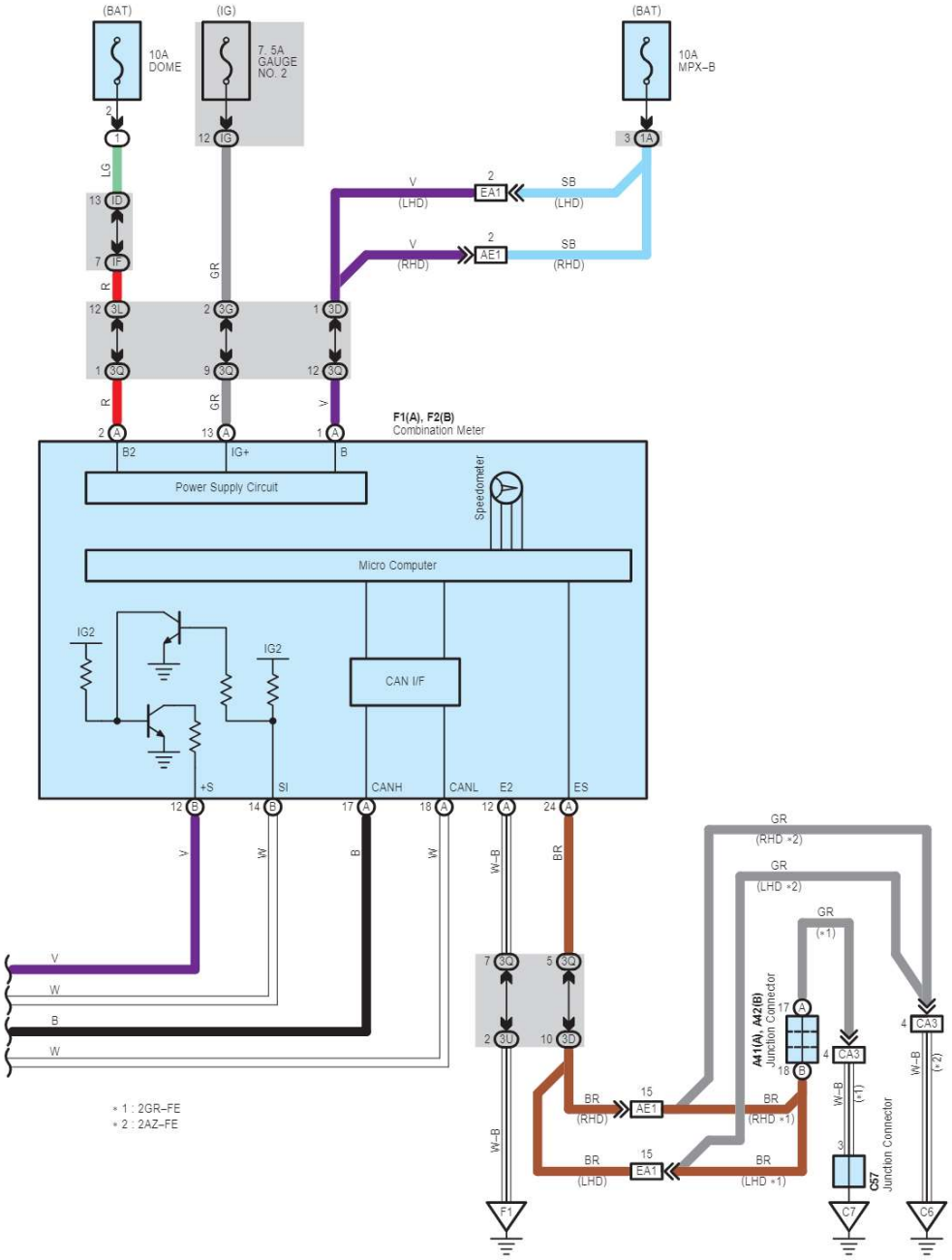

W–B
V
F16
A/C Control Assembly
IG+
TX+
ADI1
SG
GND
LIN1
AC1
EAC
E38(A), e1(B)
A/C Amplifier
TEA
SGA
E18(A), a1(B)
Spiral Cable
AUTO
OFF
TEMP+
TEMP–
Steering SW RH
A/C Evaporator Temp. Sensor
a1(B)
Steering Pad SW
e1(B)
A/C Blower Assembly
E49
Junction Connector
W(LHD)
W(RHD)
B(LHD)
B(RHD)
F1
E2


B(+1)
W(+1)
* 1 : 2GR-FE
* 2 : 2AZ-FE
C4
EFI Water Temp. Sensor
A24(A), A55(B), C55(D), C58(E)
Engine ECU
THW
ETHW
CANH
CANL
NE+
NE-
VCP2
EPA2
VCPA
EPA
VPA
VPA2
SPD
(LHD)
(RHD)
(Shielded)
C50
Crankshaft Position Sensor
A17
Accelerator Position Sensor
BR
V(+1)
W(LHD)
W(RHD)
B(LHD)
B(RHD)
C5


B(+1)
W(+1)
B(+2)
W(+2)
V
A17
Accelerator Position Sensor
VCP2
VPA2
EPA2
VCPA
VPA
EPA
C4
EFI Water Temp. Sensor
3 2P
10 3B
14 AE5
A411(A)
Junction Connector
58 VCP2
56 VPA2
60 EPA2
57 VCPA
55 VPA
59 EPA
97 THW
96 ETHW
41 CANH
49 CANL
NE+
NE−
SPD
122
121
8
A24(A), C24(C)
Engine ECU
(Shielded)
C20
Crankshaft Position Sensor
CA3
W-B
B-W
V(+1)
W(LHD)
W(RHD)
B(LHD)
B(RHD)
C4


B(*1)
W(*1)
B(*2)
W(*2)
V
* 1 : 2GR-FE
* 2 : 2AZ-FE
A40(A), E41(B)
Junction Connector
E42(A), E43(B), E47(F)
Junction Connector
FE1
W(LHD)
W(RHD)
B(LHD)
B(RHD)


V
B
W
25 A
15 B
11 A (w/ VSC)
26 B (w/o VSC)
CANL
CANH
A25(B), A26(A)
Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
SP1
18 A
5 B
4 A
6 B
3 A
10 B
17 A
9 B
20 A
7 B
6 A
17 B
5 A
19 B
19 A
8 B
12 A (w/ VSC)
23 B (w/o VSC)
LG
V
P
L
R
L
B
W
BR
6 AE6
Speed Sensors
W
3 3D
11 3P
W
V
W
B
W
B
W


(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
LG
GR
R
V
SB
(LHD)
(RHD)
EA1
AE1
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply Circuit
Speedometer
Micro Computer
IG2
CAN I/F
+S
SI
CANH
CANL
E2
ES
W-B
BR
GR
(RHD *2)
(LHD *2)
(*1)
A41(A), A42(B) Junction Connector
CA3
W-B
(*1)
(*2)
C57 Junction Connector
F1
C7
C6
* 1 : 2GR-FE
* 2 : 2AZ-FE

○ : **Parts Location**

Code		See Page
A2		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A17		57 (LHD)
		67 (RHD)
A24	A	54 (*2)
		62 (*3)
		64 (*4)
A25	B	54 (*2)
		64 (*4)
A26	A	52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A27		52 (*1)
		54 (*2)
		62 (*3)
		64 (*4)
A40	A	57 (LHD)
		67 (RHD)
A41	A	57 (LHD)
		67 (RHD)
A42	B	57 (LHD)
		67 (RHD)
A55	B	52 (*1)
A58	A	57 (LHD)

Code		See Page
A58	A	67 (RHD)
C4		53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C20		55 (*2)
		65 (*4)
C21	A	53 (*1)
		55 (*2)
		63 (*3)
		65 (*4)
C24	C	55 (*2)
		65 (*4)
C50		53 (*1)
		63 (*3)
C53	B	53 (*1)
		63 (*3)
C55	D	53 (*1)
C57		53 (*1)
		63 (*3)
C58	E	63 (*3)
E11		56 (LHD)
		66 (RHD)
E12		56 (LHD)
		66 (RHD)
E18	A	56 (LHD)
		66 (RHD)

Code		See Page
E27		56 (LHD)
		66 (RHD)
E38	A	56 (LHD)
		66 (RHD)
E39		56 (LHD)
		66 (RHD)
E40	B	56 (LHD)
		66 (RHD)
E41	B	56 (LHD)
		66 (RHD)
E42	A	48, 56 (LHD)
		48, 66 (RHD)
E43	B	48, 56 (LHD)
		48, 66 (RHD)
E47	F	48, 66 (RHD)
E49		56 (LHD)
		66 (RHD)
F1	A	57 (LHD)
		67 (RHD)
F2	B	57 (LHD)
		67 (RHD)
F16		57 (LHD)
		67 (RHD)
a1	B	57 (LHD)
		67 (RHD)
e1	B	57 (LHD)
		67 (RHD)

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3E		
3G		
3H		
3J		
3K		
3L		
3M		
3P	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3Q		
3S		
3U		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4C		
4D		
4L		
4M		
ID	32 (LHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IG	33 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	33 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE2	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel J/B)
	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE3	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5	74 (LHD)	
	80 (RHD)	
AE6	74 (LHD)	
	80 (RHD)	
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2	80 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Under the Instrument Panel J/B)
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	

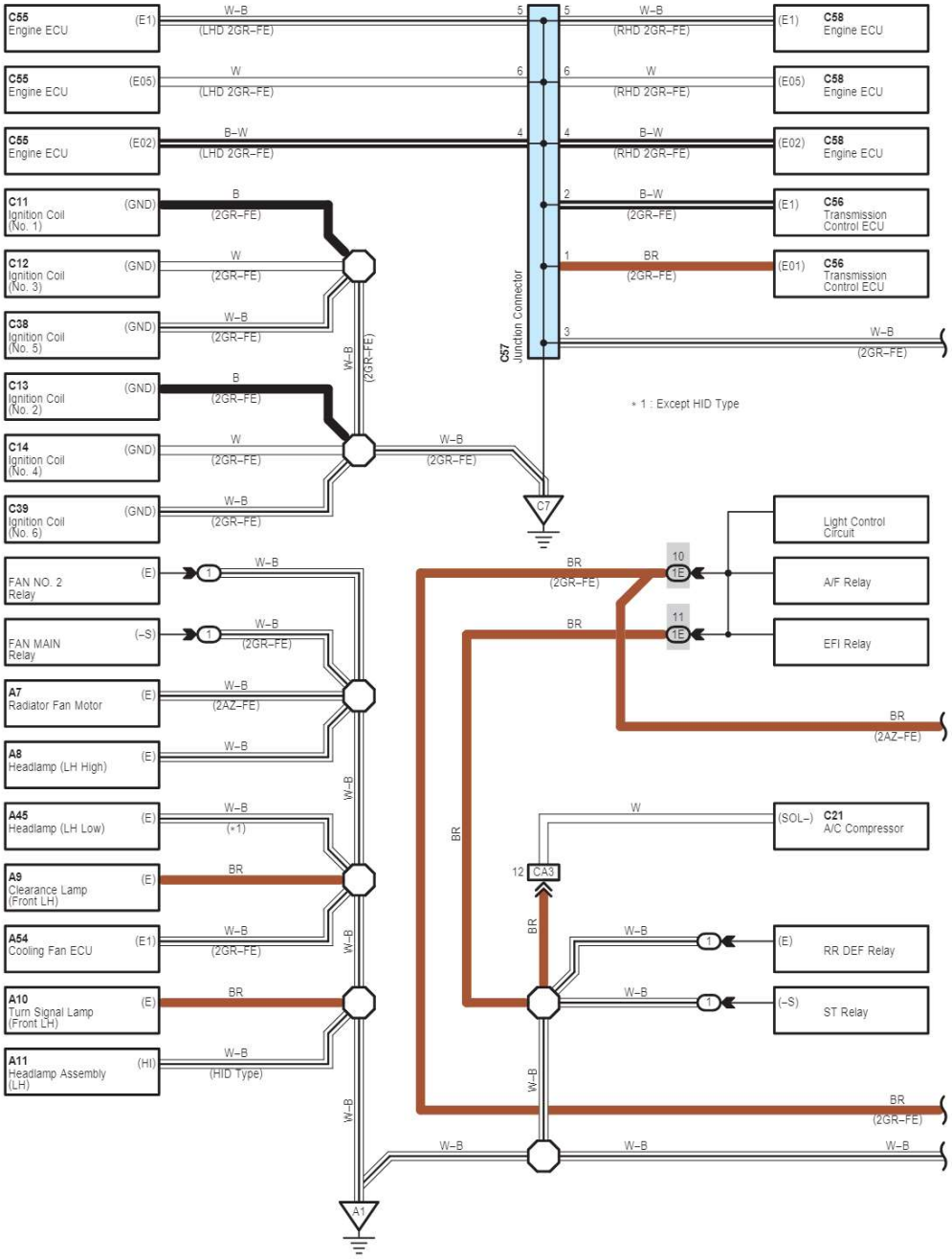
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

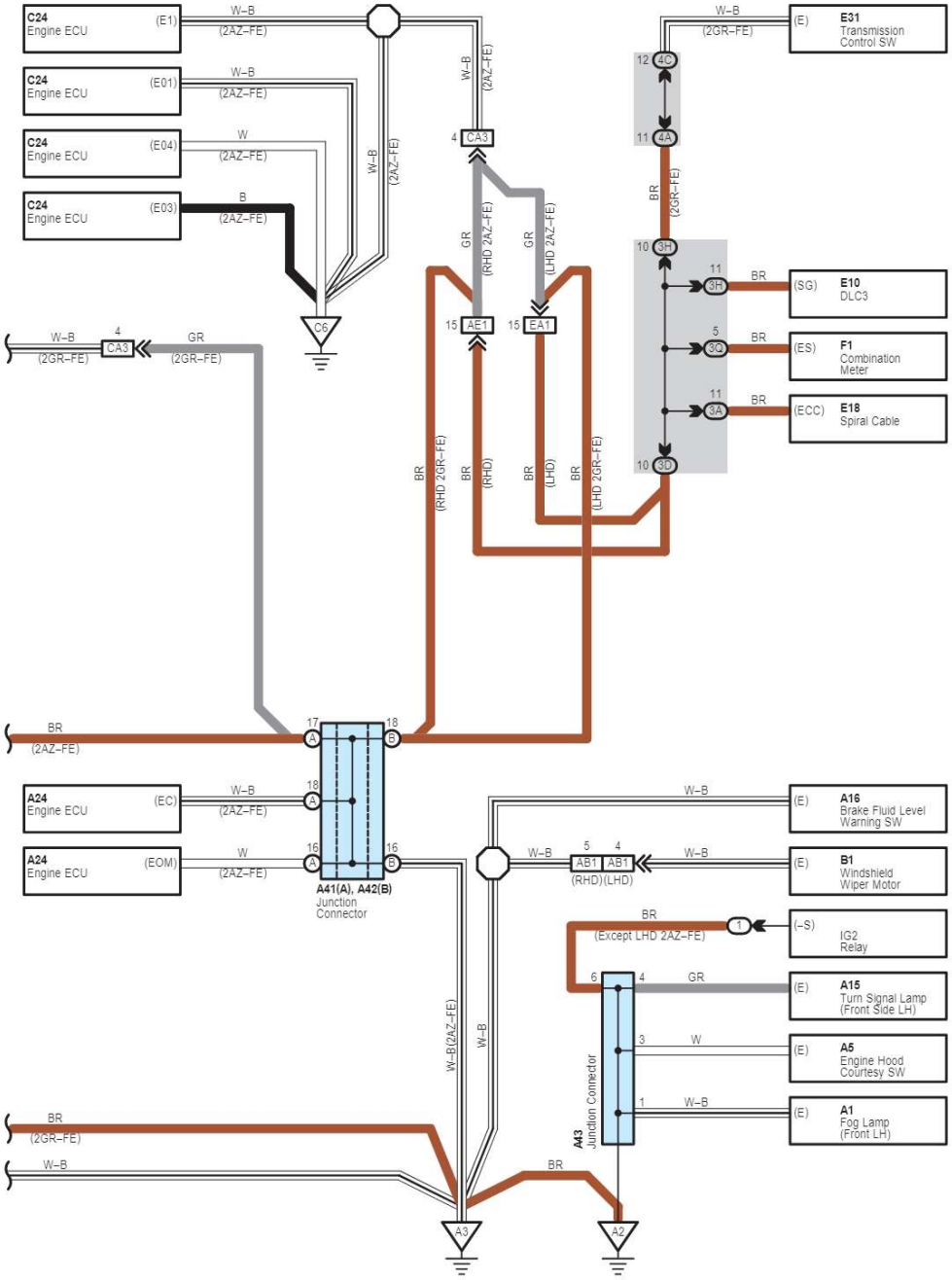
▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
C4	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
E3	74 (LHD)	Instrument Panel Right
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right

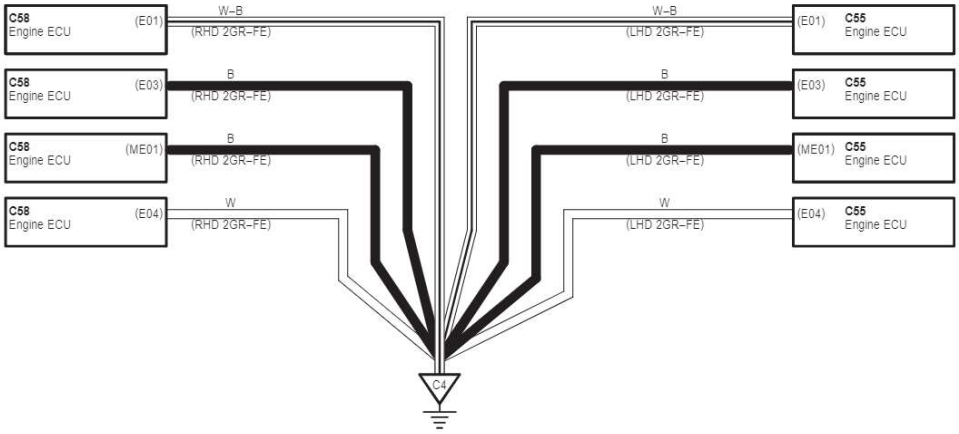
* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

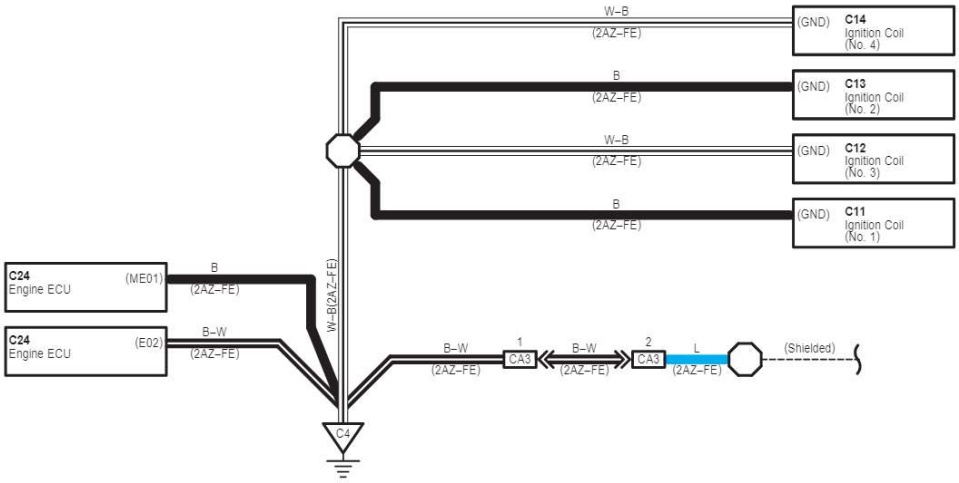
I GROUND POINT

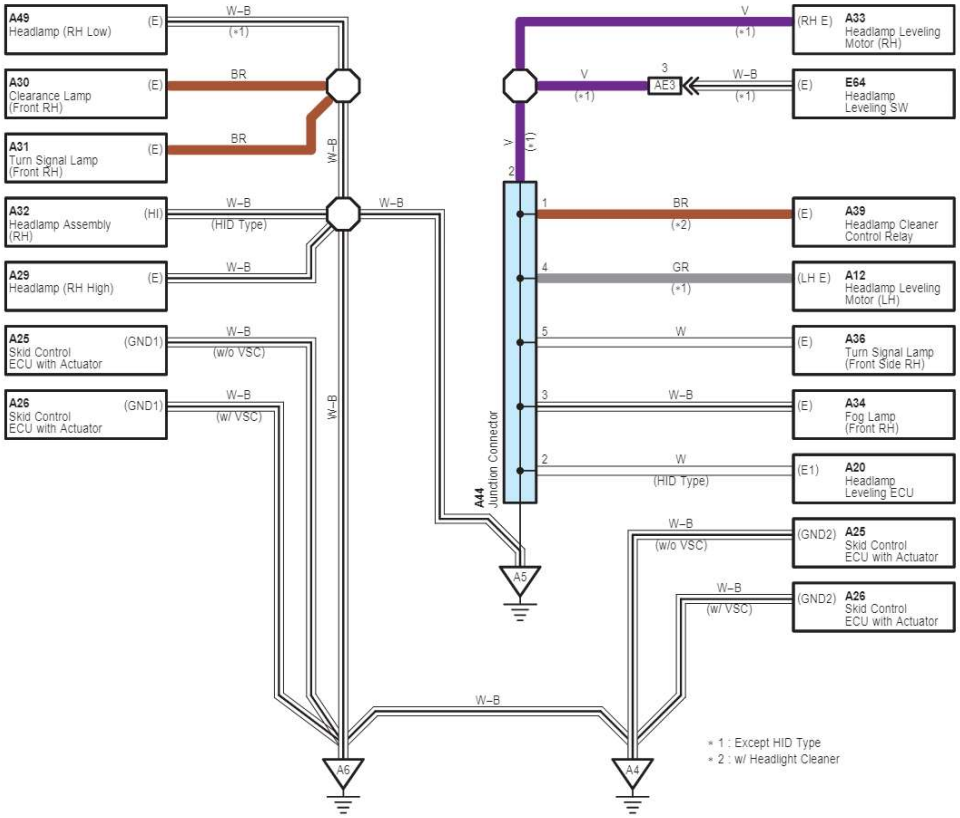


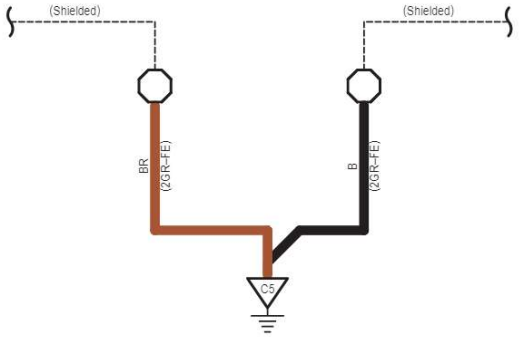

C24 Engine ECU (E1)
C24 Engine ECU (E01)
C24 Engine ECU (E04)
C24 Engine ECU (E03)
W–B (2AZ–FE)
W (2AZ–FE)
B (2AZ–FE)
C6
4 CA3
GR (2GR–FE)
15 AE1
15 EA1
GR (RHD 2AZ–FE)
GR (LHD 2AZ–FE)
W–B (2GR–FE)
E31 Transmission Control SW
12 4C
11 4A
BR (2GR–FE)
10 3H
11 3H
5 3Q
11 3A
10 3D
BR (SG) E10 DLC3
BR (ES) F1 Combination Meter
BR (ECC) E18 Spiral Cable
BR (RHD 2GR–FE)
BR (RHD)
BR (LHD)
BR (LHD 2GR–FE)
BR (2AZ–FE)
17 A
18 B
A24 Engine ECU (EC)
A24 Engine ECU (EOM)
18 A
16 A
16 B
A41(A), A42(B) Junction Connector
W–B (2AZ–FE)
W (2AZ–FE)
W–B
5 AB1
4 AB1
(RHD)(LHD)
E A16 Brake Fluid Level Warning SW
E B1 Windshield Wiper Motor
BR (Except LHD 2AZ–FE)
1
(–S) IG2 Relay
6
4 GR
E A15 Turn Signal Lamp (Front Side LH)
3 W
E A5 Engine Hood Courtesy SW
1 W–B
E A1 Fog Lamp (Front LH)
A43 Junction Connector
W–B (2AZ–FE)
BR (2GR–FE)
W–B
BR
A3
A2

I GROUND POINT

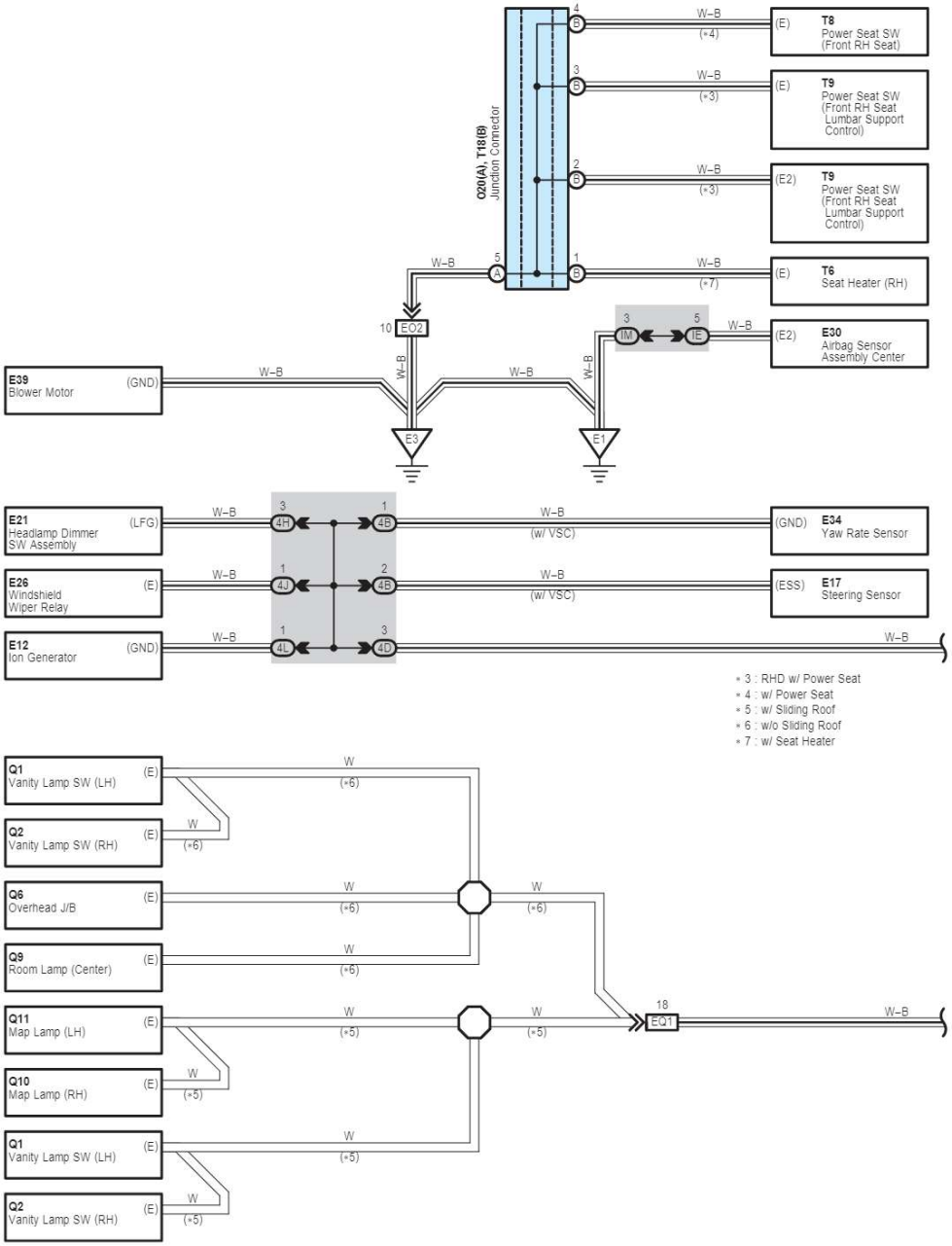


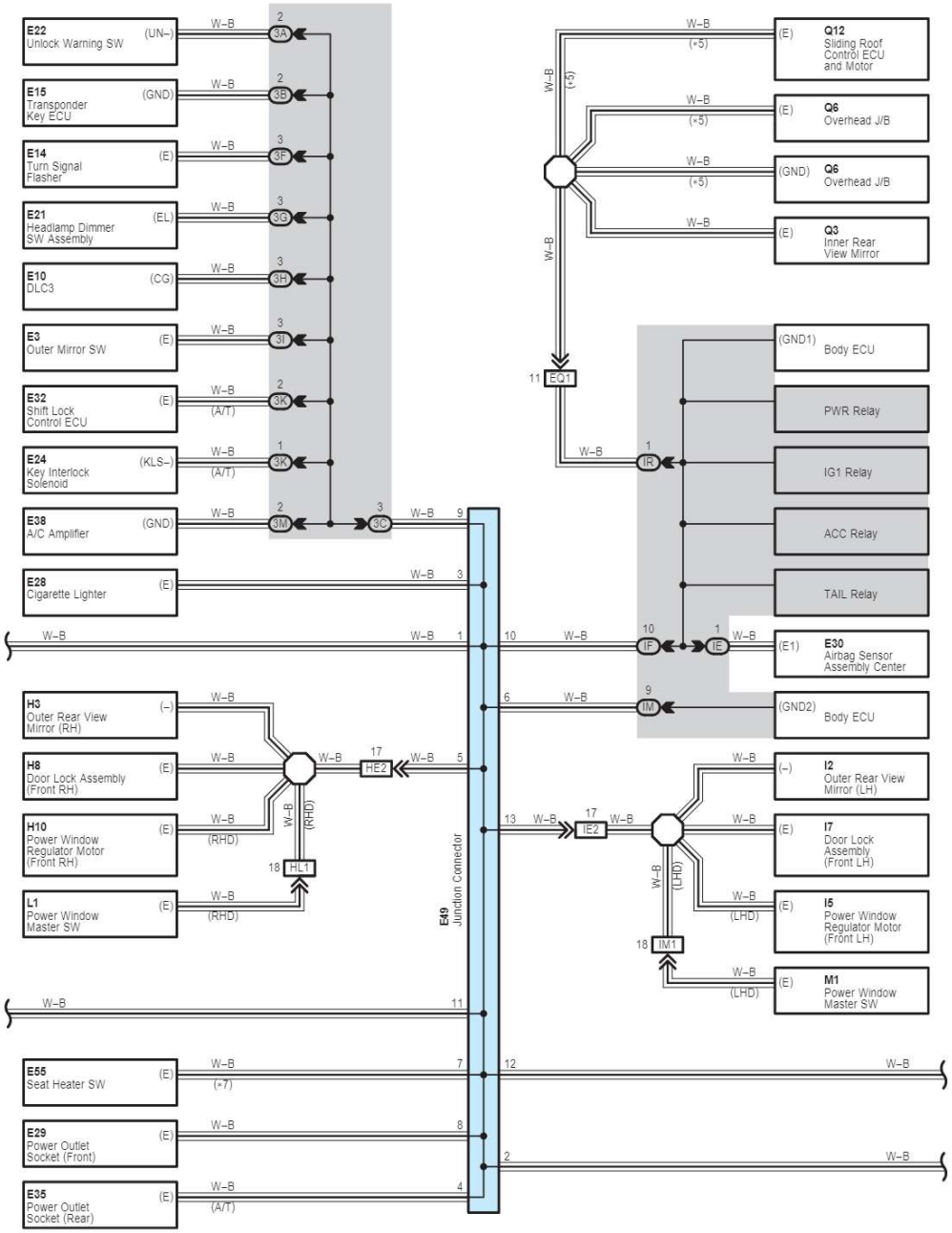


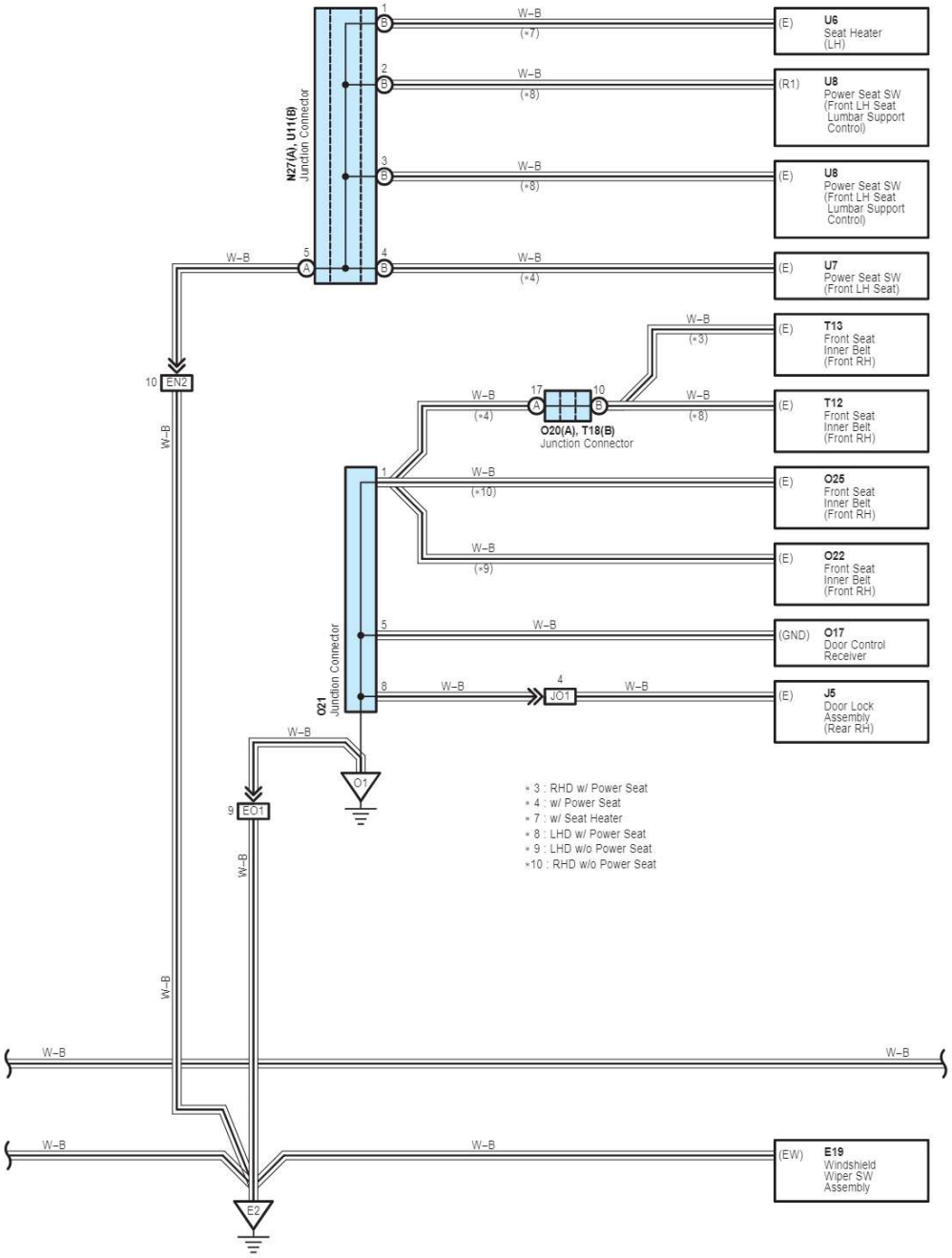

A49
Headlamp (RH Low)
(E)
W–B
(*1)
A30
Clearance Lamp
(Front RH)
(E)
BR
A31
Turn Signal Lamp
(Front RH)
(E)
BR
W–B
A32
Headlamp Assembly
(RH)
(HI)
W–B
(HID Type)
A29
Headlamp (RH High)
(E)
W–B
A25
Skid Control
ECU with Actuator
(GND1)
W–B
(w/o VSC)
A26
Skid Control
ECU with Actuator
(GND1)
W–B
(w/ VSC)
W–B
W–B
A44
Junction Connector
V
(*1)
(RH E)
A33
Headlamp Leveling
Motor (RH)
V
(*1)
3
AE3
W–B
(*1)
(E)
E64
Headlamp
Leveling SW
V
(*1)
2
1
BR
(*2)
(E)
A39
Headlamp Cleaner
Control Relay
4
GR
(*1)
(LH E)
A12
Headlamp Leveling
Motor (LH)
5
W
(E)
A36
Turn Signal Lamp
(Front Side RH)
3
W–B
(E)
A34
Fog Lamp
(Front RH)
2
W
(HID Type)
(E1)
A20
Headlamp
Leveling ECU
W–B
(w/o VSC)
(GND2)
A25
Skid Control
ECU with Actuator
W–B
(w/ VSC)
(GND2)
A26
Skid Control
ECU with Actuator
A5
A6
A4
W–B
* 1 : Except HID Type
* 2 : w/ Headlight Cleaner

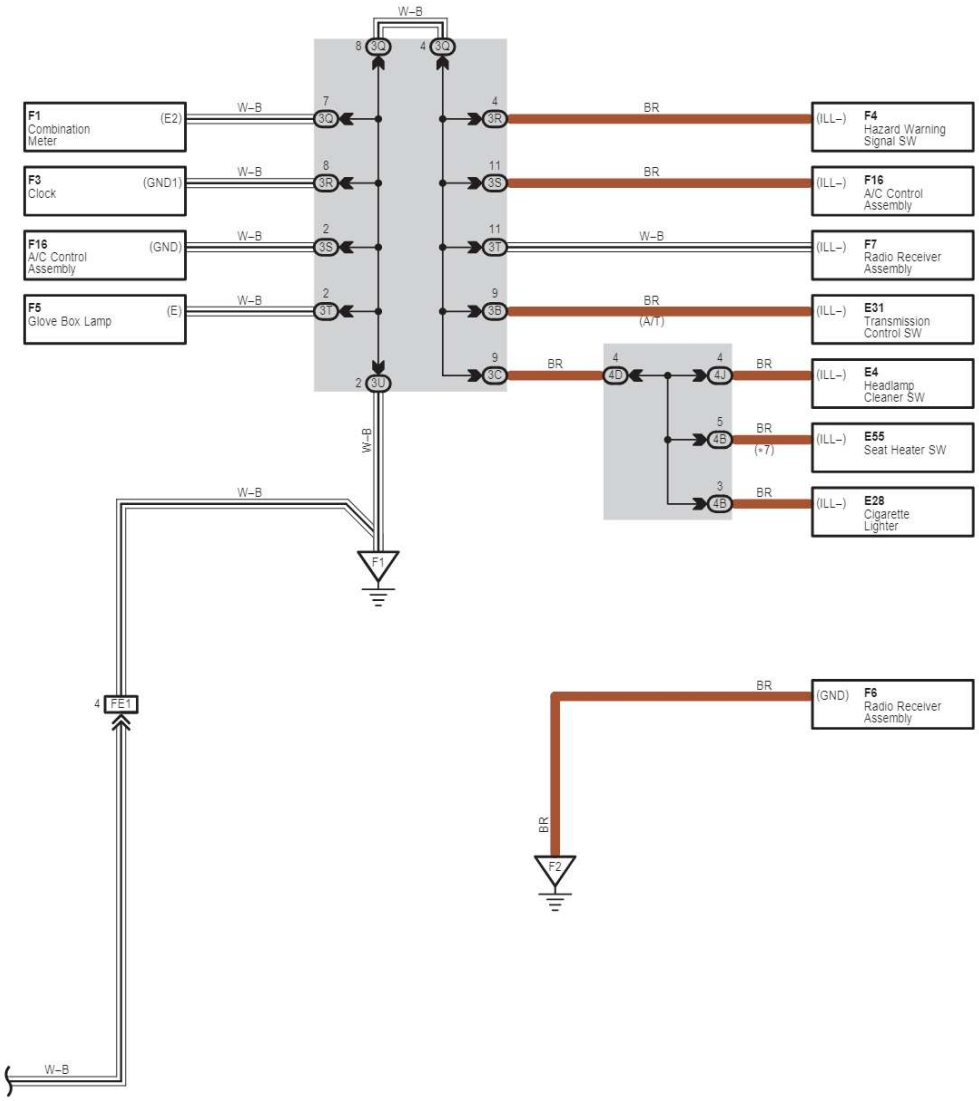

(Shielded)
(Shielded)
BR
(2GR-FE)
B
(2GR-FE)
C5

I GROUND POINT

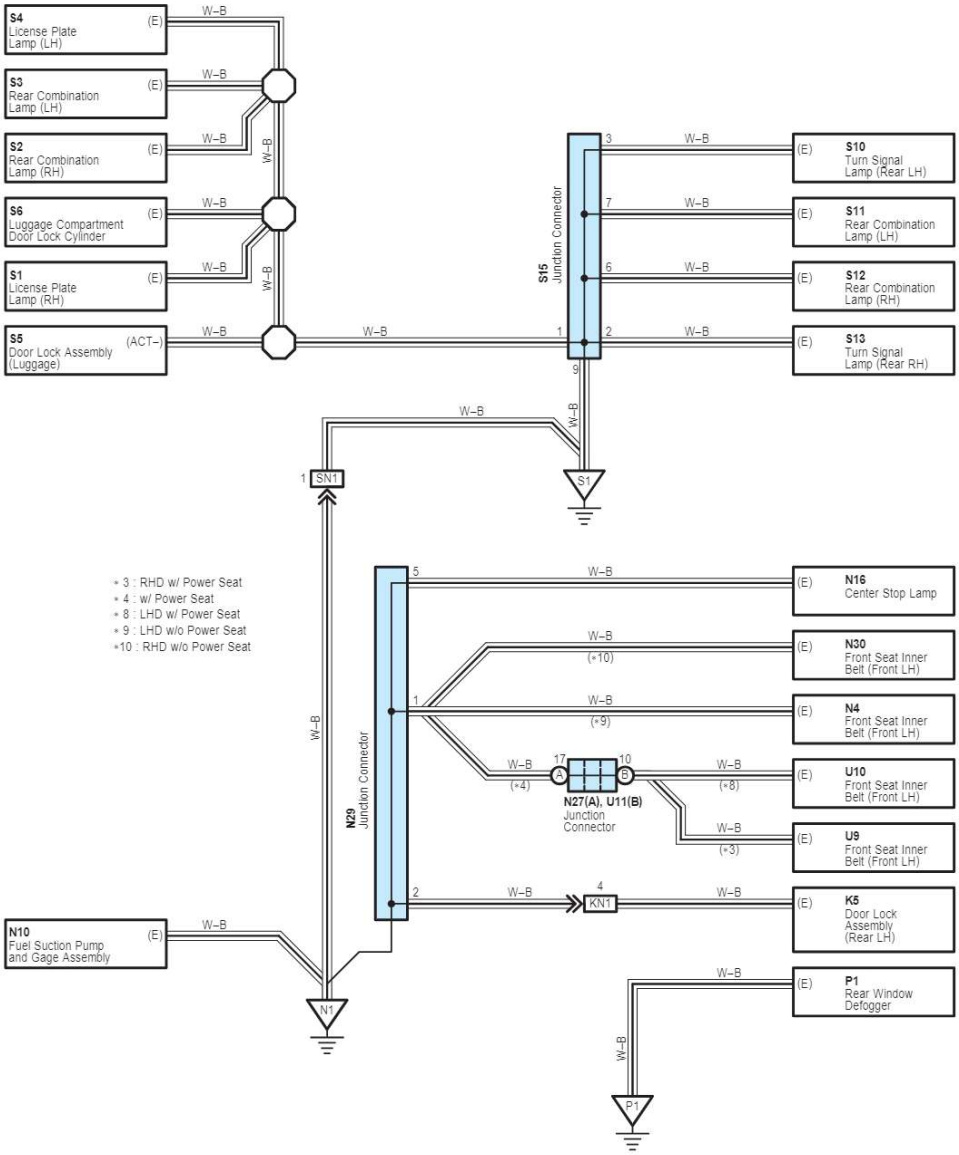



E22 Unlock Warning SW
E15 Transponder Key ECU
E14 Turn Signal Flasher
E21 Headlamp Dimmer SW Assembly
E10 DLC3
E3 Outer Mirror SW
E32 Shift Lock Control ECU
E24 Key Interlock Solenoid
E38 A/C Amplifier
E28 Cigarette Lighter
H3 Outer Rear View Mirror (RH)
H8 Door Lock Assembly (Front RH)
H10 Power Window Regulator Motor (Front RH)
L1 Power Window Master SW
E55 Seat Heater SW
E29 Power Outlet Socket (Front)
E35 Power Outlet Socket (Rear)
E49 Junction Connector
Q12 Sliding Roof Control ECU and Motor
Q6 Overhead J/B
Q6 Overhead J/B
Q3 Inner Rear View Mirror
Body ECU
PWR Relay
IG1 Relay
ACC Relay
TAIL Relay
E30 Airbag Sensor Assembly Center
Body ECU
I2 Outer Rear View Mirror (LH)
I7 Door Lock Assembly (Front LH)
I5 Power Window Regulator Motor (Front LH)
M1 Power Window Master SW
HE2
HL1
IE2
IM1
EQ1
IR
IF
IE
IM
W-B
(RHD)
(LHD)
(A/T)
(*5)
(*7)


N27(A), U11(B)
Junction Connector
W–B
(*7)
(E)
U6
Seat Heater
(LH)
(*8)
(R1)
U8
Power Seat SW
(Front LH Seat
Lumbar Support
Control)
(E)
U8
Power Seat SW
(Front LH Seat
Lumbar Support
Control)
U7
Power Seat SW
(Front LH Seat)
(*3)
T13
Front Seat
Inner Belt
(Front RH)
(*4)
O20(A), T18(B)
Junction Connector
T12
Front Seat
Inner Belt
(Front RH)
(*10)
O25
Front Seat
Inner Belt
(Front RH)
(*9)
O22
Front Seat
Inner Belt
(Front RH)
O21
Junction Connector
(GND)
O17
Door Control
Receiver
JO1
J5
Door Lock
Assembly
(Rear RH)
EN2
EO1
O1
E2
(EW)
E19
Windshield
Wiper SW
Assembly
* 3 : RHD w/ Power Seat
* 4 : w/ Power Seat
* 7 : w/ Seat Heater
* 8 : LHD w/ Power Seat
* 9 : LHD w/o Power Seat
*10 : RHD w/o Power Seat


W–B
3Q
8
4
F1
Combination Meter
(E2)
7
3R
F3
Clock
(GND1)
8
3S
F16
A/C Control Assembly
(GND)
2
3T
F5
Glove Box Lamp
(E)
2
3U
11
9
3B
3C
BR
(A/T)
4D
4J
5
4B
3
(ILL–)
F4
Hazard Warning Signal SW
F16
A/C Control Assembly
F7
Radio Receiver Assembly
E31
Transmission Control SW
E4
Headlamp Cleaner SW
E55
Seat Heater SW
(*7)
E28
Cigarette Lighter
F1
FE1
F2
(GND)
F6
Radio Receiver Assembly

I GROUND POINT



○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A41	A	57 (LHD)	A44		62 (*3)	O20	A	60 (LHD)
		67 (RHD)			64 (*4)			70 (RHD)
A42	B	57 (LHD)	C57		53 (*1)	O21		58 (LHD)
		67 (RHD)			63 (*3)			68 (RHD)
A43		52 (*1)	E49		56 (LHD)	S15		59 (LHD)
		54 (*2)			66 (RHD)			69 (RHD)
		62 (*3)	N27	A	60 (LHD)	T18	B	60 (LHD)
		64 (*4)			70 (RHD)			70 (RHD)
A44		52 (*1)	N29		58 (LHD)	U11	B	60 (LHD)
		54 (*2)			68 (RHD)			70 (RHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	38	Instrument Panel Wire and J/B No.3 (Behind the Combination Meter)
3B		
3C		
3D		
3F		
3G		
3H		
3I		
3K		
3M		
3Q	38	Instrument Panel No.2 Wire and J/B No.3 (Behind the Combination Meter)
3R		
3S		
3T		
3U		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Brace Center)
4B		
4C		
4D		
4H		
4J		
4L		
IE	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IF	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IM	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)
IR	32 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	32 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Behind the Glove Box)

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

I GROUND POINT

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AB1	72 (*1)	Engine Room Main Wire and Engine Room No.2 Wire (Near the Windshield Wiper Motor)
	73 (*2)	
	78 (*3)	
	79 (*4)	
AE1	80 (RHD)	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel J/B)
AE3	74 (LHD)	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
CA3	72 (*1)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
	73 (*2)	
	78 (*3)	
	79 (*4)	
EA1	74 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EN2	74 (LHD)	Instrument Panel Wire and Floor Wire (Left Kick Panel)
	80 (RHD)	
EO1	74 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
	80 (RHD)	
EO2	74 (LHD)	
	80 (RHD)	
EQ1	74 (LHD)	Instrument Panel Wire and Roof Wire (Lower Part of Front Pillar LH)
	80 (RHD)	
FE1	74 (LHD)	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Center)
	80 (RHD)	
HE2	74 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
	80 (RHD)	
HL1	81 (RHD)	Front Door RH Wire and Front Door RH No.2 Wire (Inside of the Front Door RH)
IE2	74 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
	80 (RHD)	
IM1	75 (LHD)	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
JO1	75 (LHD)	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
	81 (RHD)	
KN1	75 (LHD)	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
	81 (RHD)	
SN1	75 (LHD)	Luggage Room Wire and Floor Wire (Luggage Room Left)
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

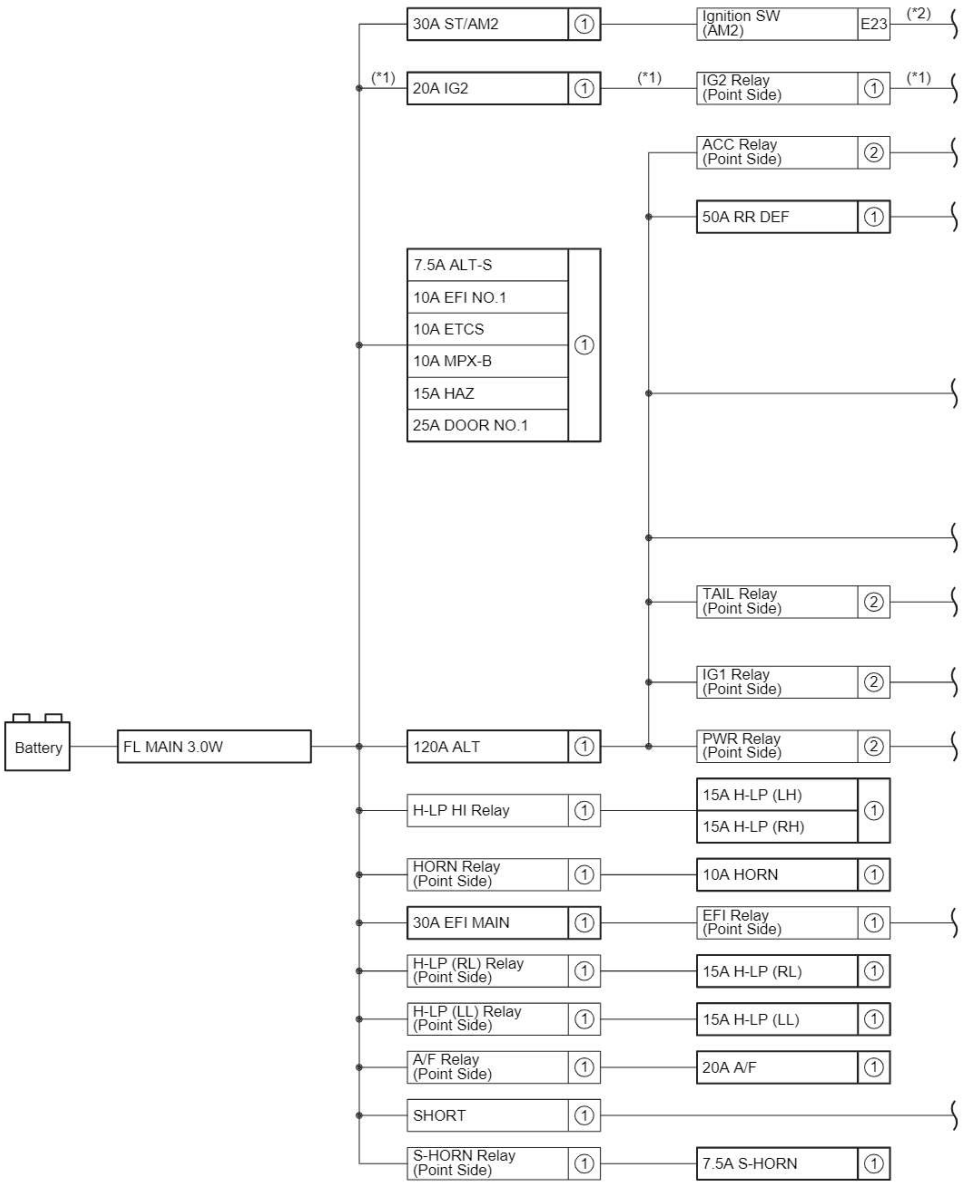
▽ : **Ground Points**

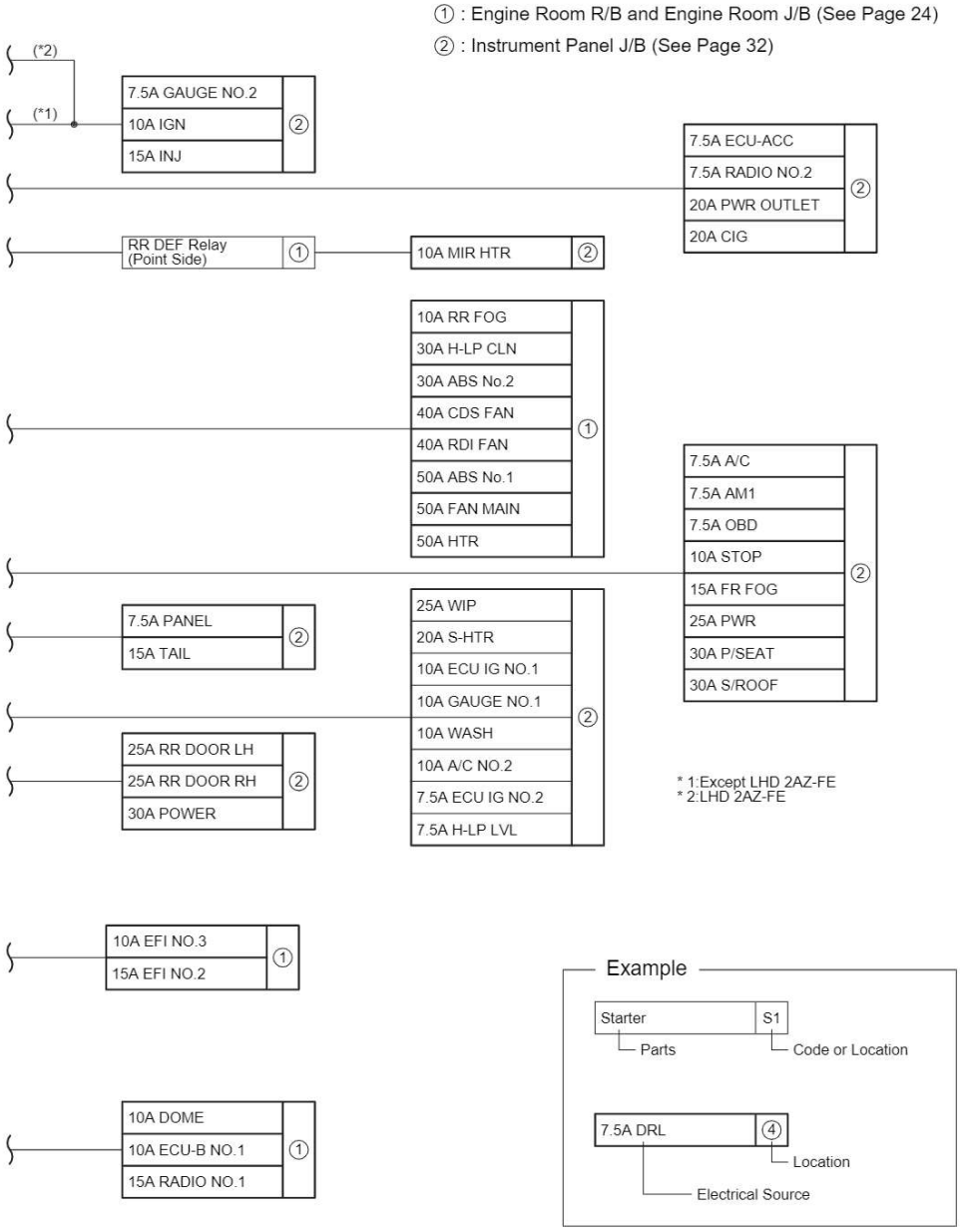
Code	See Page	Ground Points Location
A1	72 (*1)	Front Left Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A2	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
A3	74 (LHD)	Left Cowl Side Panel
	80 (RHD)	
A4	72 (*1)	Front Right Fender
	73 (*2)	
	78 (*3)	
	79 (*4)	
A5	72 (*1)	
	73 (*2)	
	78 (*3)	
	79 (*4)	
A6	74 (LHD)	Right Cowl Side Panel
	80 (RHD)	
C4	72 (*1)	Cylinder Head
	73 (*2)	Left Side of the Cylinder Block
	78 (*3)	Front Left Side of the Cylinder Block
	79 (*4)	Left Side of the Cylinder Block
C5	72 (*1)	Front Left Side of the Cylinder Block
	78 (*3)	Cylinder Head
C6	73 (*2)	Left Side of the Cylinder Block
	79 (*4)	
C7	72 (*1)	Rear Left Side of the Cylinder Block
	78 (*3)	
E1	74 (LHD)	Instrument Panel Left
	80 (RHD)	
E2	74 (LHD)	Instrument Panel Brace LH
	80 (RHD)	
E3	74 (LHD)	Instrument Panel Right
	80 (RHD)	
F1	74 (LHD)	Instrument Panel Left
	80 (RHD)	Instrument Panel Right
F2	74 (LHD)	Instrument Panel Brace RH
	80 (RHD)	
N1	75 (LHD)	Quarter Panel LH
	81 (RHD)	
O1	75 (LHD)	Quarter Panel RH
	81 (RHD)	
P1	75 (LHD)	
	81 (RHD)	
S1	75 (LHD)	Lower Back Panel Center
	81 (RHD)	

* 1 : LHD 2GR–FE * 2 : LHD 2AZ–FE * 3 : RHD 2GR–FE * 4 : RHD 2AZ–FE

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 24)
② : Instrument Panel J/B (See Page 32)
(*2)
(*1)
7.5A GAUGE NO.2
10A IGN
15A INJ
②
7.5A ECU-ACC
7.5A RADIO NO.2
20A PWR OUTLET
20A CIG
②
RR DEF Relay (Point Side)
①
10A MIR HTR
②
10A RR FOG
30A H-LP CLN
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 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
7.5A H-LP LVL
②
25A RR DOOR LH
25A RR DOOR RH
30A POWER
②
* 1:Except LHD 2AZ-FE
* 2:LHD 2AZ-FE
10A EFI NO.3
15A EFI NO.2
①
10A DOME
10A ECU-B NO.1
15A RADIO NO.1
①
Example
Starter
S1
Parts
Code or Location
7.5A DRL
④
Location
Electrical Source

Engine Room R/B and Engine Room J/B (See Page 24)

Fuse		System	Page
7.5A	ALT–S	Charging	104
7.5A	S–HORN	Theft Deterrent	332
10A	DOME	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Air Conditioner	416
		Audio System	384
		Clock	362
		Combination Meter	390
		Cooling Fan (2GR–FE)	402
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		Door Lock Control and Luggage Compartment Door Opener	312
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Front Fog Light	176
		Front Wiper and Washer	212
		Headlight	144
		Headlight Beam Level Control (Automatic)	198
		Interior Light	154
		Key Reminder and Seat Belt Warning	192
		Radiator Fan and Condenser Fan (2AZ–FE)	408
		Rear Fog Light	182
		Sliding Roof	342
		SRS (LHD)	287
		SRS (RHD)	295
		Taillight and Illumination	162
		Theft Deterrent	332
		Wireless Door Lock Control	322
10A	ECU–B NO.1	ABS (w/ VSC), TRC and VSC	264
		Automatic Light Control and Light Auto Turn Off System	188
		Door Lock Control and Luggage Compartment Door Opener	312
		Front Fog Light	176
		Headlight	144
		Interior Light	154
		Power Window	302
		Rear Fog Light	182
		Sliding Roof	342
		Taillight and Illumination	162
		Theft Deterrent	332
		Wireless Door Lock Control	322

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

Fuse		System	Page
10A	EFI NO.1	Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Engine Immobiliser System	136
10A	EFI NO.3	ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
10A	ETCS	Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
10A	HORN	Horn	364
		Theft Deterrent	332
10A	MPX–B	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Air Conditioner	416
		Audio System	384
		Combination Meter	390
		Cooling Fan (2GR–FE)	402
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		Door Lock Control and Luggage Compartment Door Opener	312
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Front Fog Light	176
		Front Wiper and Washer	212
		Headlight	144
		Headlight Beam Level Control (Automatic)	198
		Key Reminder and Seat Belt Warning	192
		Radiator Fan and Condenser Fan (2AZ–FE)	408
		Rear Fog Light	182
		Sliding Roof	342
		SRS (LHD)	287
		SRS (RHD)	295
		Taillight and Illumination	162
10A	RR FOG	Rear Fog Light	182

* 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
15A	EFI NO.2	Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
15A	HAZ	Turn Signal and Hazard Warning Light	150
15A	H–LP (LH)	Headlight	144
15A	H–LP (LL)	Headlight	144
15A	H–LP (RH)	Headlight	144
15A	H–LP (RL)	Headlight	144
		Headlight Beam Level Control (Manual)	204
15A	RADIO NO.1	Audio System	384
20A	A/F	Engine Control (2GR–FE)	106
20A	IG2	Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Ignition (2AZ–FE)	100
		Ignition (2GR–FE)	96
25A	DOOR NO.1	Automatic Light Control and Light Auto Turn Off System	188
		Door Lock Control and Luggage Compartment Door Opener	312
		Front Fog Light	176
		Headlight	144
		Interior Light	154
		Power Window	302
		Rear Fog Light	182
		Sliding Roof	342
		Taillight and Illumination	162
		Theft Deterrent	332
		Wireless Door Lock Control	322
30A	ABS No.2	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
30A	EFI MAIN	Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
30A	H–LP CLN	Headlight Cleaner	208
30A	ST/AM2	Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Ignition (2AZ–FE)	100
		Ignition (2GR–FE)	96
		Starting	92

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

Fuse		System	Page
40A	CDS FAN	Radiator Fan and Condenser Fan (2AZ–FE)	408
40A	RDI FAN	Radiator Fan and Condenser Fan (2AZ–FE)	408
50A	ABS No.1	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
50A	FAN MAIN	Cooling Fan (2GR–FE)	402
50A	HTR	Air Conditioner	416
50A	RR DEF	Rear Window Defogger and Mirror Heater	380
120A	ALT	Automatic Light Control and Light Auto Turn Off System	188
		Charging	104
		Front Fog Light	176
		Front Wiper and Washer	212
		Power Window	302
		Rear Fog Light	182
		Starting	92
		Taillight and Illumination	162
		Theft Deterrent	332

Instrument Panel J/B (See Page 32)

Fuse		System	Page
7.5A	A/C	Air Conditioner	416
7.5A	AM1	ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Starting	92
7.5A	ECU IG NO.2	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2GR–FE)	220
		Headlight Cleaner	208
		Shift Lock	348
7.5A	ECU–ACC	Automatic Light Control and Light Auto Turn Off System	188
		Clock	362
		Door Lock Control and Luggage Compartment Door Opener	312
		Front Fog Light	176
		Headlight	144
		Interior Light	154
		Power Window	302
		Rear Fog Light	182
		Remote Control Mirror	350
		Shift Lock	348
		Sliding Roof	342
		Taillight and Illumination	162

* 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	Theft Deterrent	332
		Wireless Door Lock Control	322
7.5A	GAUGE NO.2	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Air Conditioner	416
		Audio System	384
		Charging	104
		Combination Meter	390
		Cooling Fan (2GR–FE)	402
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		Door Lock Control and Luggage Compartment Door Opener	312
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Front Fog Light	176
		Front Wiper and Washer	212
		Headlight	144
		Headlight Beam Level Control (Automatic)	198
		Key Reminder and Seat Belt Warning	192
		Radiator Fan and Condenser Fan (2AZ–FE)	408
		Rear Fog Light	182
		Sliding Roof	342
		SRS (LHD)	287
		SRS (RHD)	295
		Taillight and Illumination	162
7.5A	H–LP LVL	Headlight Beam Level Control (Automatic)	198
7.5A	OBD	DLC3	138
7.5A	PANEL	Taillight and Illumination	162
7.5A	RADIO NO.2	Audio System	384
10A	A/C NO.2	Air Conditioner	416
		Cooling Fan (2GR–FE)	402
		Radiator Fan and Condenser Fan (2AZ–FE)	408
		Rear Window Defogger and Mirror Heater	380
10A	ECU IG NO.1	Automatic Glare–Resistant EC Mirror	354
		Automatic Light Control and Light Auto Turn Off System	188
		Cooling Fan (2GR–FE)	402
		Door Lock Control and Luggage Compartment Door Opener	312
		Electric Tension Reducer	356
		Front Fog Light	176
		Front Wiper and Washer	212
		Headlight	144
		Interior Light	154

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

Fuse		System	Page
10A	ECU IG NO.1	Power Window	302
		Radiator Fan and Condenser Fan (2AZ–FE)	408
		Rear Fog Light	182
		Sliding Roof	342
		Taillight and Illumination	162
		Theft Deterrent	332
		Wireless Door Lock Control	322
10A	GAUGE NO.1	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Back–Up Light	174
		Charging	104
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		Door Lock Control and Luggage Compartment Door Opener	312
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Turn Signal and Hazard Warning Light	150
10A	IGN	Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Engine Immobiliser System	136
		SRS (LHD)	287
		SRS (RHD)	295
10A	MIR HTR	Rear Window Defogger and Mirror Heater	380
10A	STOP	ABS (w/ VSC), TRC and VSC	264
		ABS (w/o VSC)	278
		Cruise Control (2AZ–FE)	254
		Cruise Control (2GR–FE)	242
		ECT and A/T Indicator (2AZ–FE)	232
		ECT and A/T Indicator (2GR–FE)	220
		Engine Control (2AZ–FE)	122
		Engine Control (2GR–FE)	106
		Shift Lock	348
		Stop Light	172
10A	WASH	Front Wiper and Washer	212
		Headlight Cleaner	208
15A	FR FOG	Front Fog Light	176
15A	INJ	Engine Control (2AZ–FE)	122
		Ignition (2AZ–FE)	100

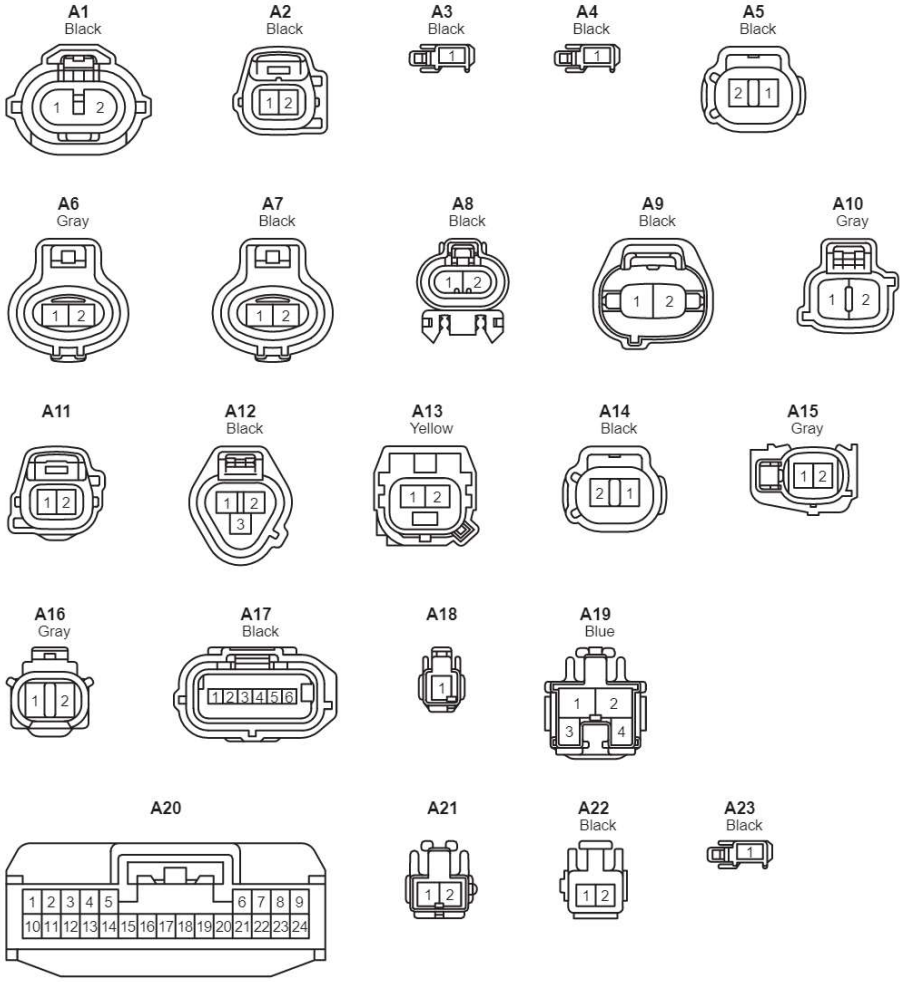
* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

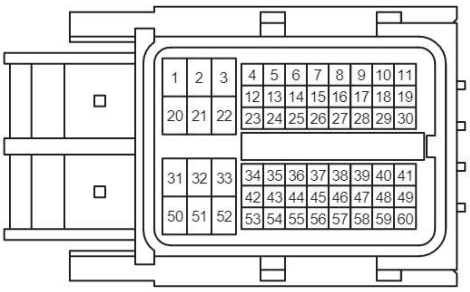
Fuse		System	Page
15A	TAIL	Front Fog Light	176
		Rear Fog Light	182
		Taillight and Illumination	162
20A	CIG	Cigarette Lighter	358
20A	PWR OUTLET	Power Outlet	360
20A	S–HTR	Seat Heater	378
25A	PWR	Power Window	302
25A	RR DOOR LH	Power Window	302
25A	RR DOOR RH	Power Window	302
25A	WIP	Front Wiper and Washer	212
30A	POWER	Power Window	302
30A	P/SEAT	Power Seat (LHD Driver's Seat)	366
		Power Seat (LHD Front Passenger's Seat)	374
		Power Seat (RHD Driver's Seat)	370
		Power Seat (RHD Front Passenger's Seat)	376
30A	S/ROOF	Sliding Roof	342

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

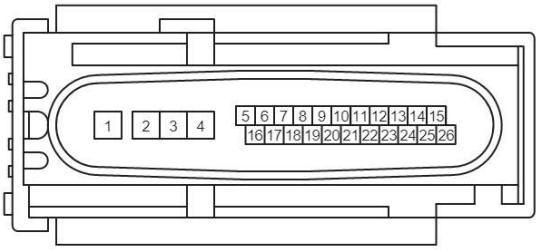
K CONNECTOR LIST



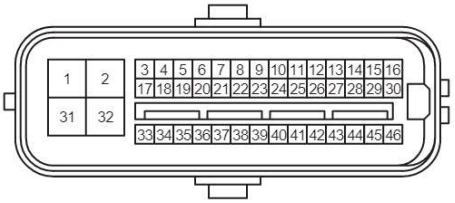
A24
Black



A25
Black



A26
Black



A27
Black



A28
Yellow



A29
Black



A30
Black



A31
Gray



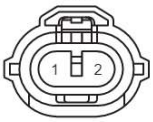
A32



A33
Black



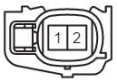
A34
Black



A35
Gray



A36
Gray



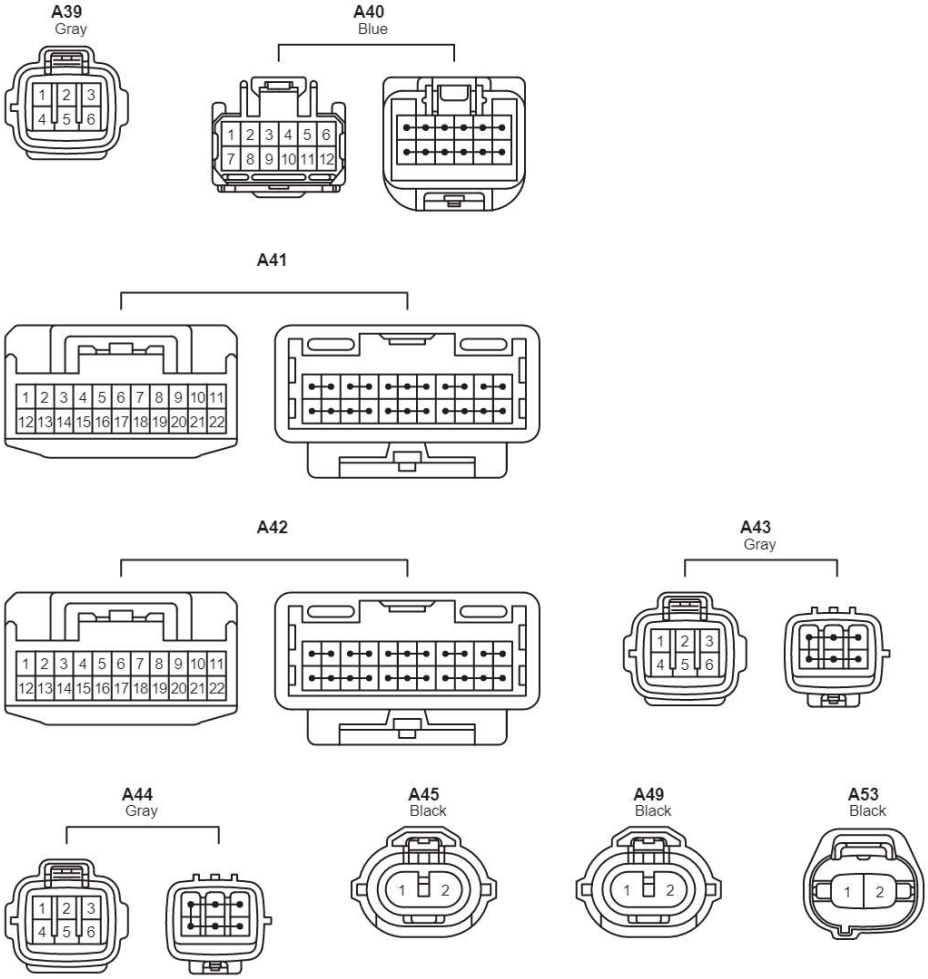
A37
Black



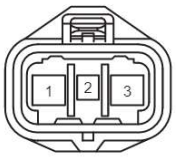
A38
Black



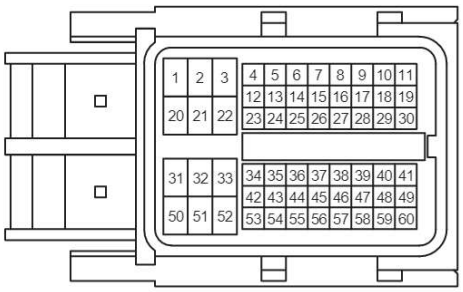
K CONNECTOR LIST



A54
Black



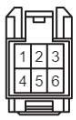
A55
Black



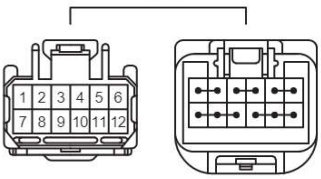
A56



A57



A58
Black



B1
Black



C1
Gray



C2
Black



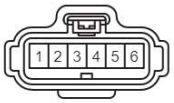
C3
Black



C4
Black



C5
Black



C6
Black



C7
Gray



C8
Gray



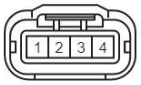
C9
Gray



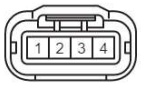
C10
Gray



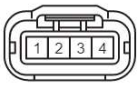
C11
Black



C12
Black



C13
Black



C14
Black



C15
Dark Gray



C16
Gray



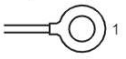
C17
Black



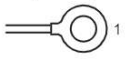
C18
Black



C19
(2AZ–FE)



C19
(2GR–FE)



C20
Black



K CONNECTOR LIST

C21
Black



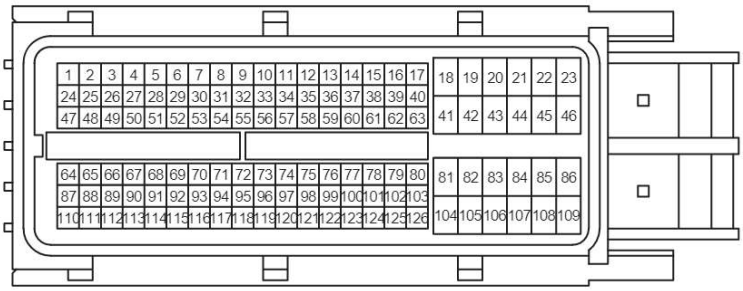
C22



C23
Gray



C24
Black



C25
Gray



C26
Black



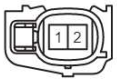
C27
Black



C28
Gray



C30
Gray



C31
Black



C32
Black



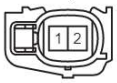
C34
Black



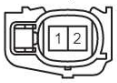
C35
Dark Gray



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



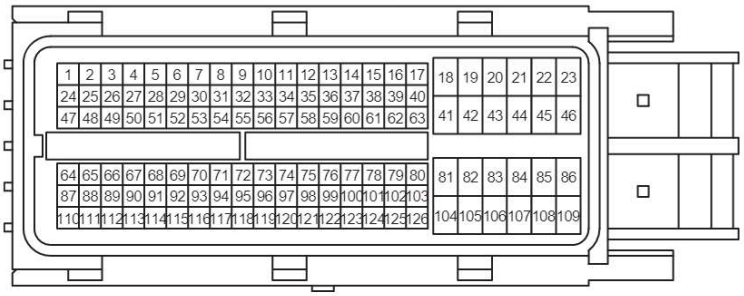
C52
Dark Gray



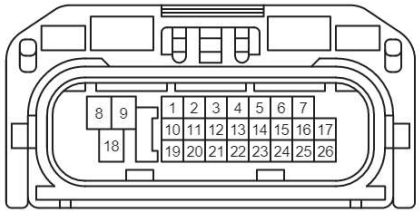
C53
Gray



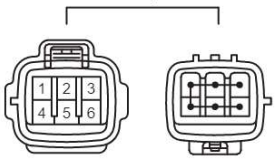
C55
Black



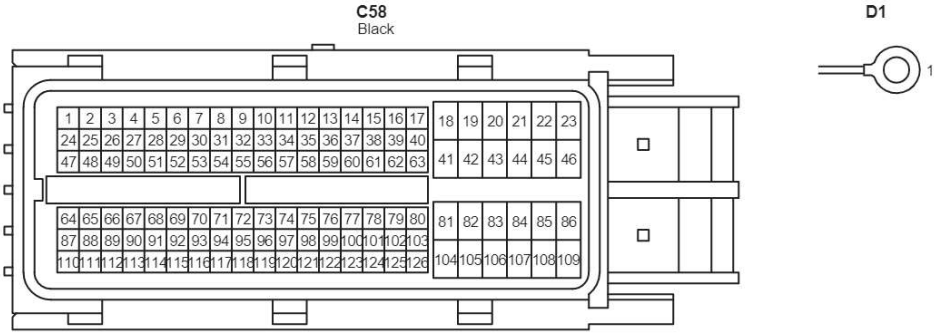
C56
Black

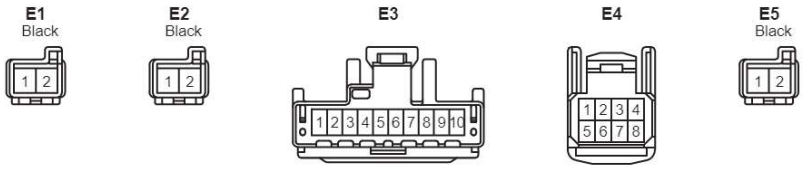


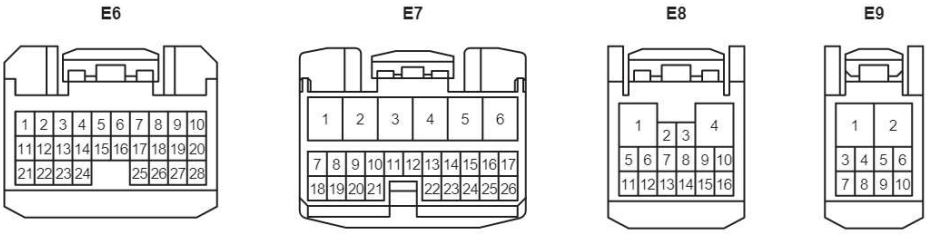
C57
Gray

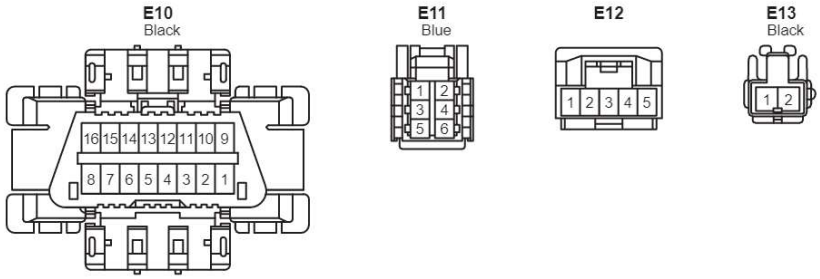


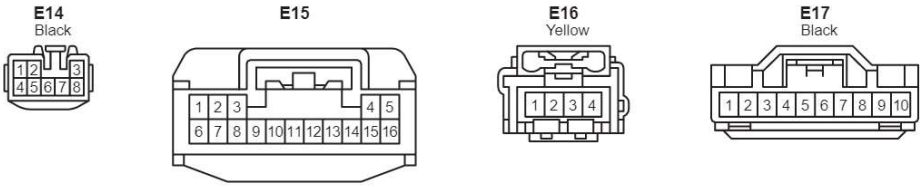
K CONNECTOR LIST







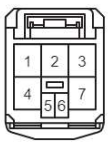




E18
Black



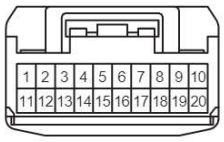
E19



E20



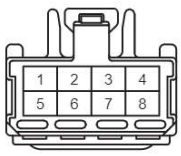
E21



E22



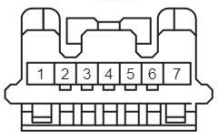
E23



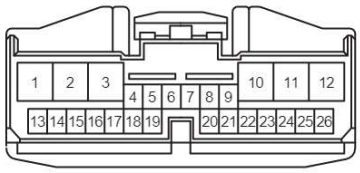
E24
Black



E25
Black



E26



E27
Black



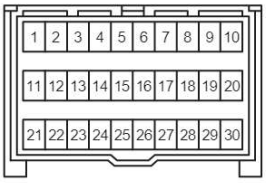
E28



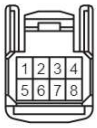
E29



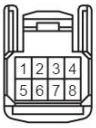
E30
Yellow



E31



E32



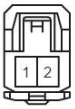
E33



E34
Black



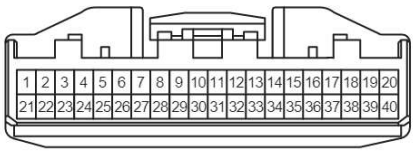
E35



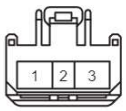
E37
Black



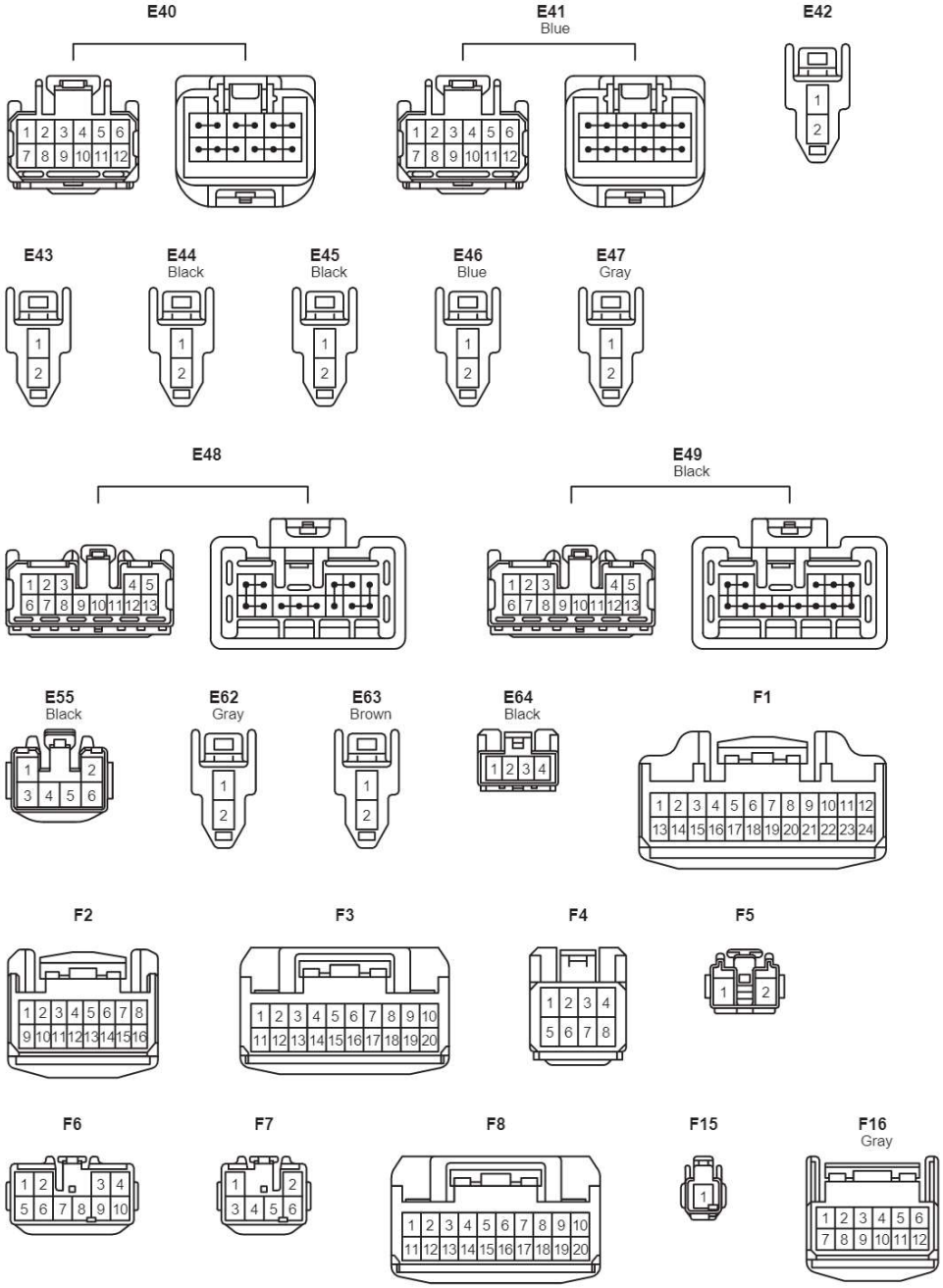
E38



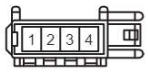
E39



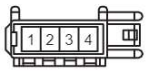
K CONNECTOR LIST



F21



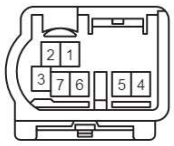
F23



H1



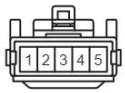
H3



H4



H6



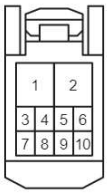
H7



H8



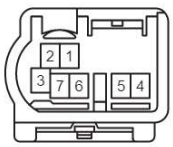
H10



I1



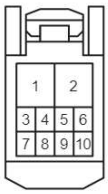
I2



I4



I5



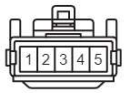
I6



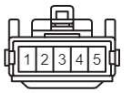
I7



I9



J1



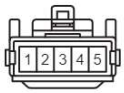
J3



J5



K1



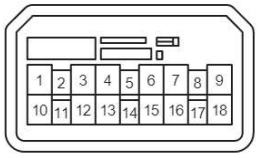
K3



K5

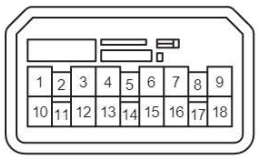


L1

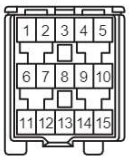


K CONNECTOR LIST

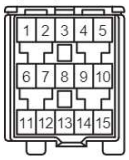
M1



N1
(LHD) Yellow



N1
(RHD) Yellow



N3



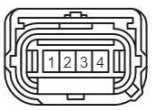
N4



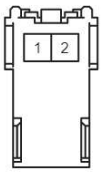
N6



N7
Yellow



N8
Yellow



N9



N10



N12
Yellow



N13
Black



N15
Black



N16



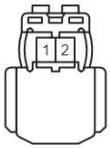
N18
Black



N19
Black



N21
Black



N22



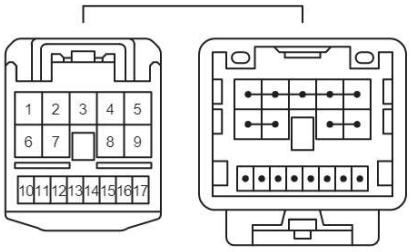
N23
Black

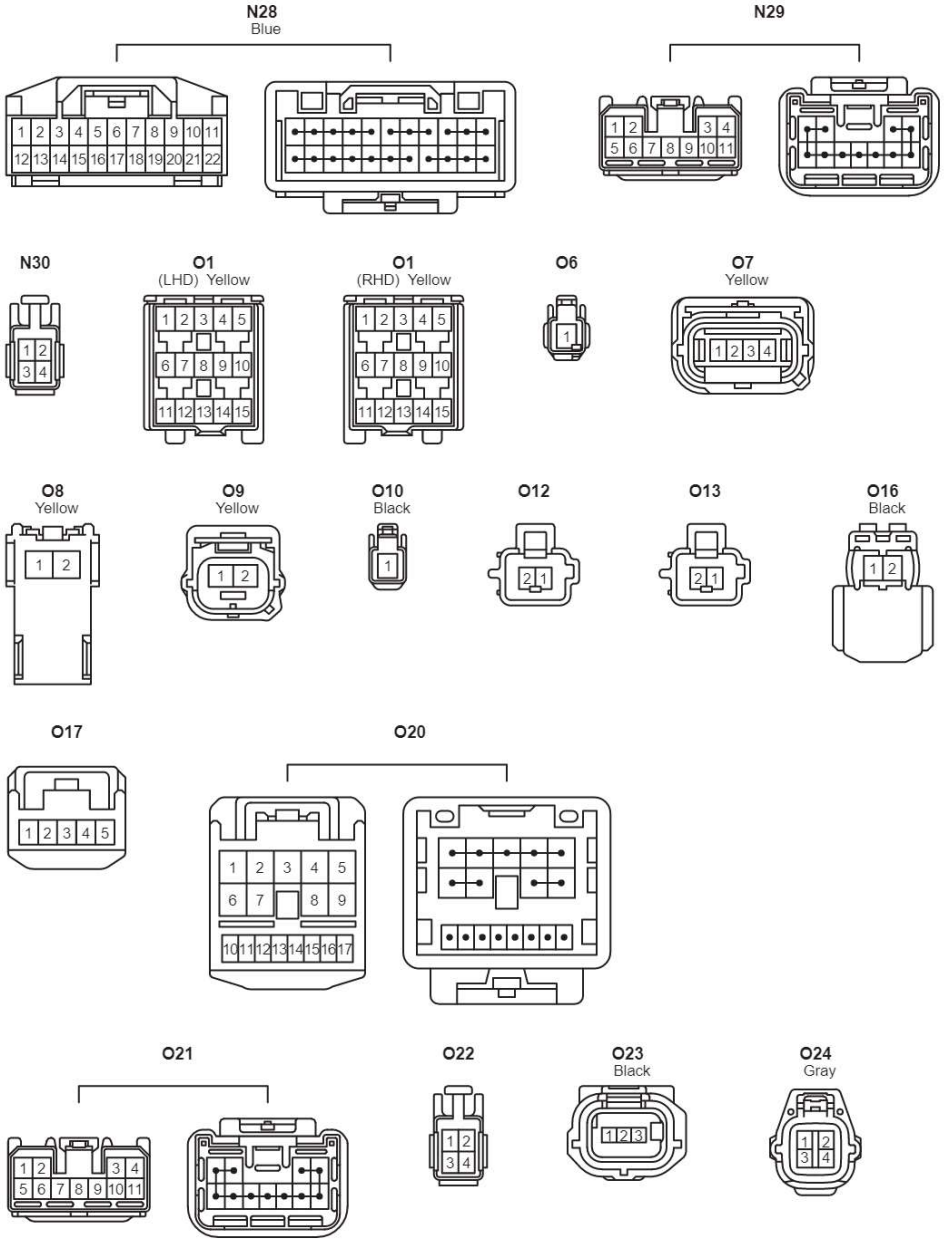


N26
Gray

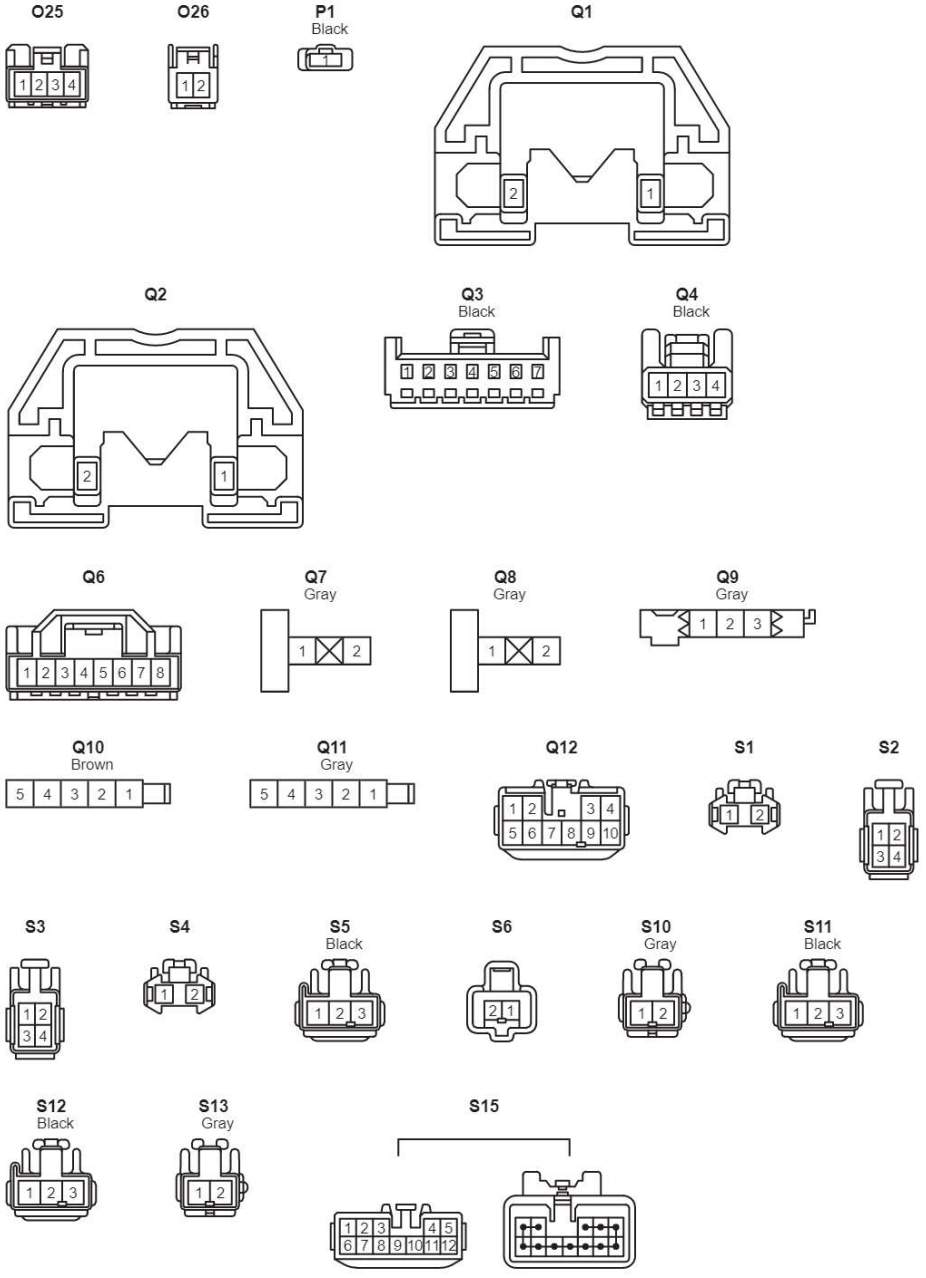


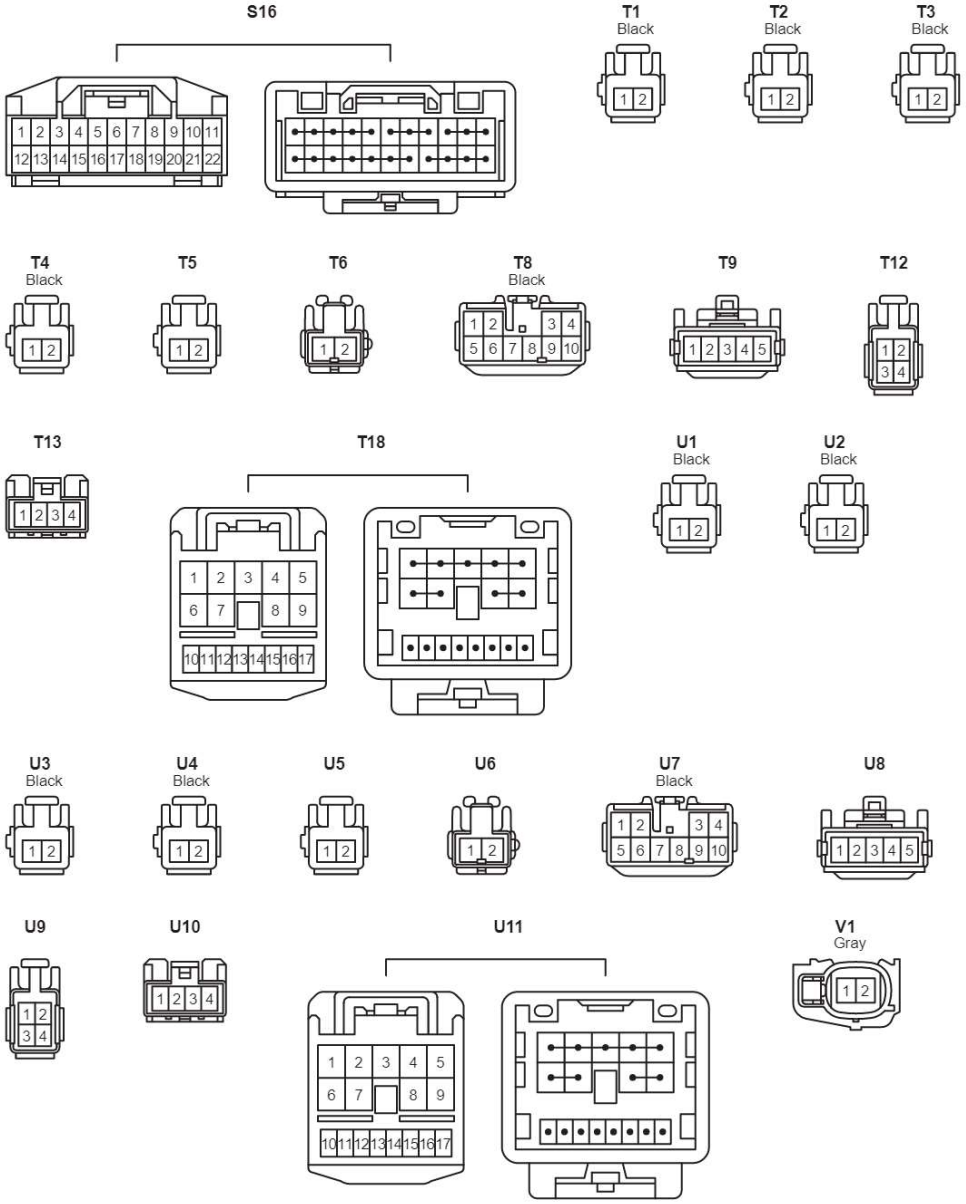
N27




N28
Blue
N29
N30
O1
(LHD) Yellow
O1
(RHD) Yellow
O6
O7
Yellow
O8
Yellow
O9
Yellow
O10
Black
O12
O13
O16
Black
O17
O20
O21
O22
O23
Black
O24
Gray

K CONNECTOR LIST



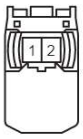

S16
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
T1
Black
1 2
T2
Black
1 2
T3
Black
1 2
T4
Black
1 2
T5
1 2
T6
1 2
T8
Black
1 2 3 4
5 6 7 8 9 10
T9
1 2 3 4 5
T12
1 2
3 4
T13
1 2 3 4
T18
1 2 3 4 5
6 7 8 9
10 11 12 13 14 15 16 17
U1
Black
1 2
U2
Black
1 2
U3
Black
1 2
U4
Black
1 2
U5
1 2
U6
1 2
U7
Black
1 2 3 4
5 6 7 8 9 10
U8
1 2 3 4 5
U9
1 2
3 4
U10
1 2 3 4
U11
1 2 3 4 5
6 7 8 9
10 11 12 13 14 15 16 17
V1
Gray
1 2

K CONNECTOR LIST

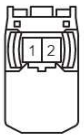
V2
Black



Y1



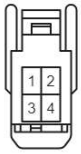
Z1



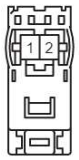
a1



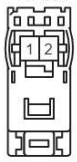
b1



c1
Black



c2
Orange



e1



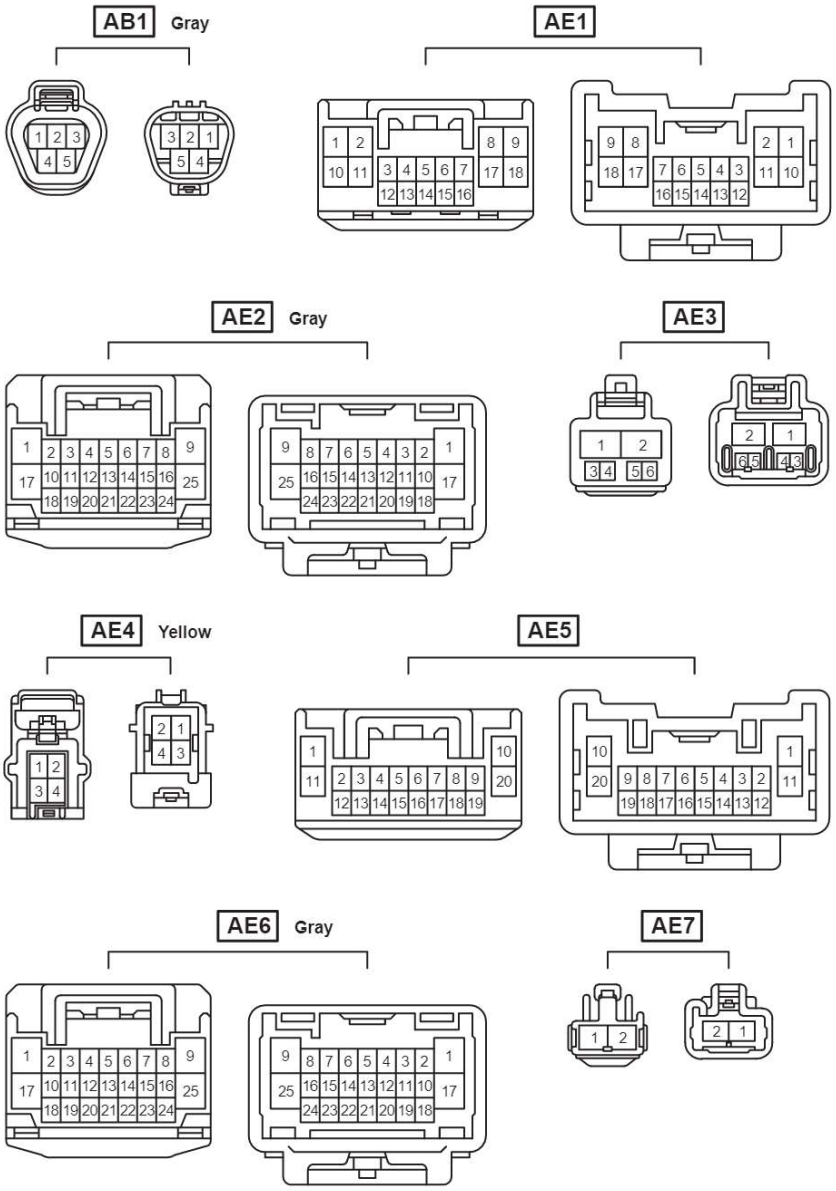
f1
Gray

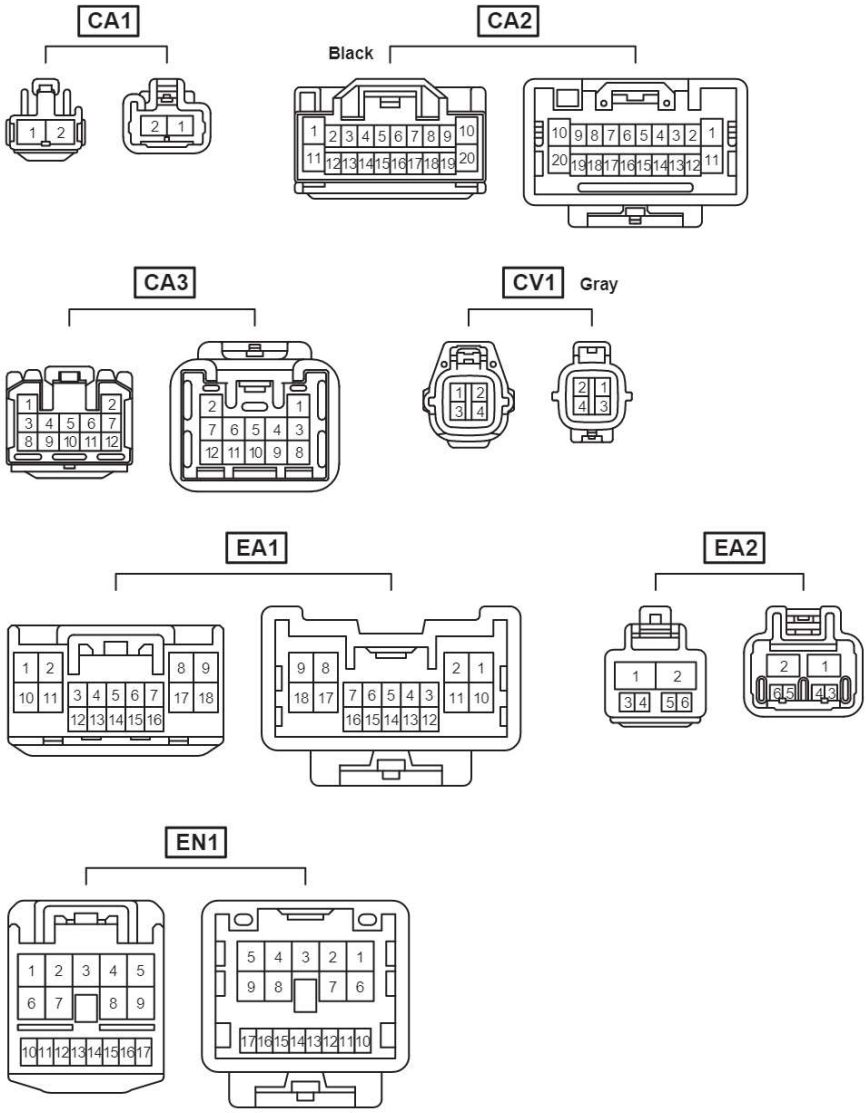


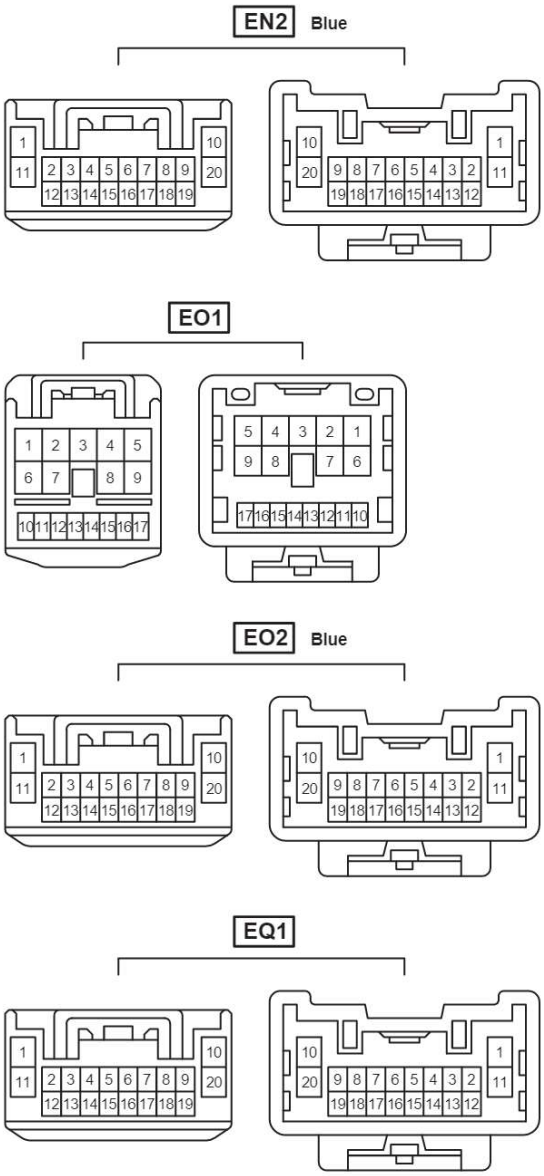
g1
Gray

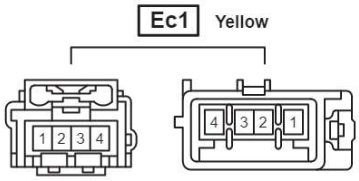


K CONNECTOR LIST

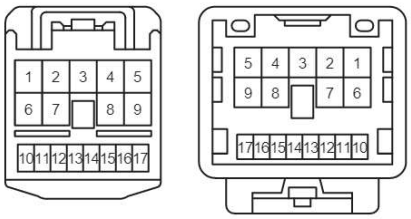



CA1
CA2
Black
CA3
CV1
Gray
EA1
EA2
EN1

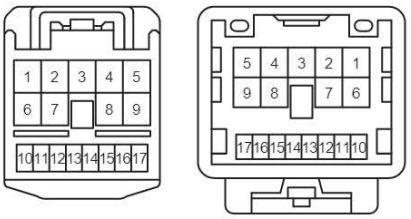

EN2
Blue
EO1
EO2
Blue
EQ1


Ec1
Yellow

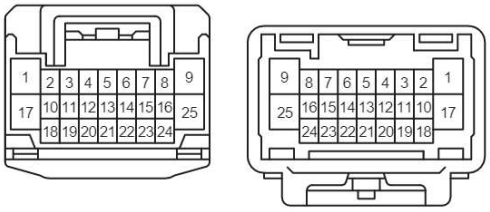
FE1 Gray



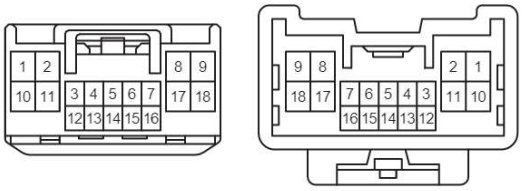
HE1 Gray



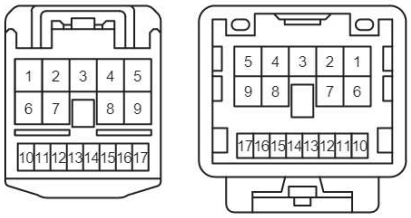
HE2



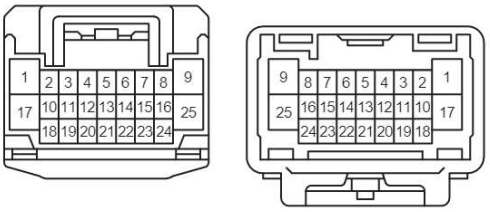
HL1

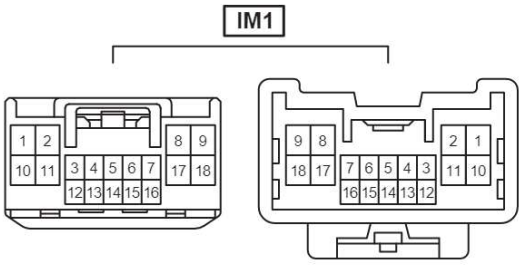


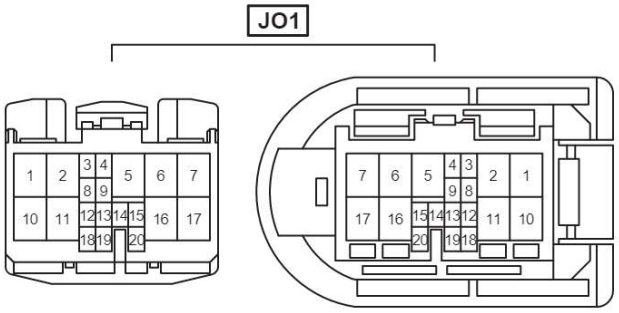
IE1 Gray

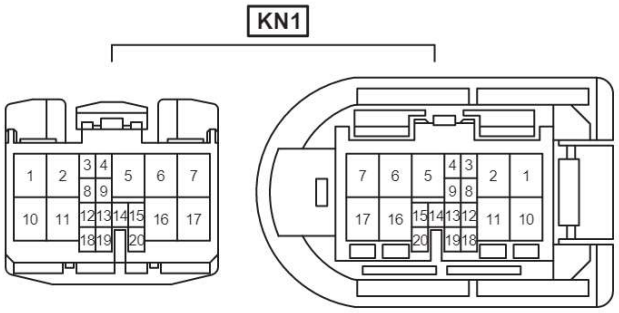


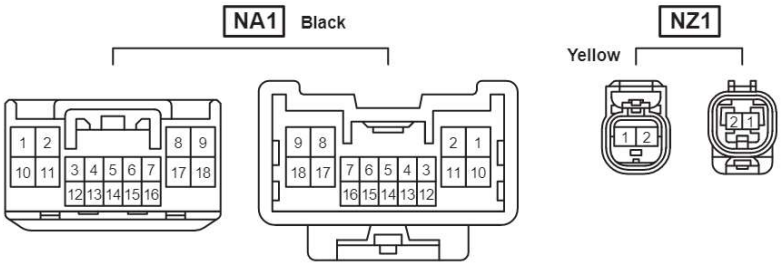
IE2

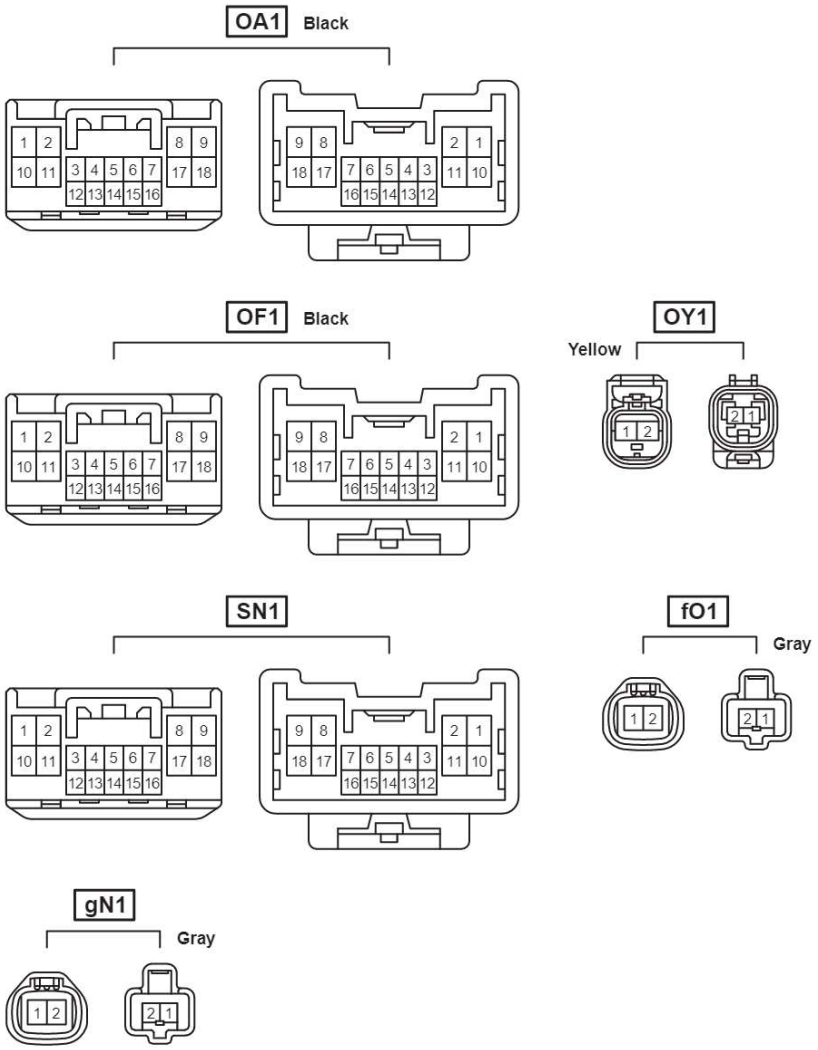



IM1
1 2 8 9
10 11 3 4 5 6 7 17 18
12 13 14 15 16
9 8 2 1
18 17 7 6 5 4 3 11 10
16 15 14 13 12


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
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
NZ1
Yellow
1 2
2 1


OA1
Black
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
OF1
Black
OY1
Yellow
1 2
2 1
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
A9	Clearance Lamp (Front LH)	90980–11156
A10	Turn Signal Lamp (Front LH)	90980–11019
A11	Headlamp Assembly (LH)	90980–11255
A12	Headlamp Leveling Motor (LH)	90980–11016
A13	Airbag Sensor (Front LH)	90980–12490
A14	Speed Sensor (Front LH)	90980–11002
A15	Turn Signal Lamp (Front Side LH)	90980–11875
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
A20	Headlamp Leveling ECU	90980–12404
A21	Cruise Control Clutch SW	90980–10906
A22	Clutch Start SW	90980–10825
A23	Security Horn	90980–10619
A24	Engine ECU	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
A30	Clearance Lamp (Front RH)	90980–11156
A31	Turn Signal Lamp (Front RH)	90980–11019
A32	Headlamp Assembly (RH)	90980–11255
A33	Headlamp Leveling Motor (RH)	90980–11016
A34	Fog Lamp (Front RH)	82824–60460
A35	Speed Sensor (Front RH)	90980–11002
A36	Turn Signal Lamp (Front Side RH)	90980–11875
A37	Windshield Washer Motor	90980–11019
A38	Headlamp Cleaner Motor	90980–11410
A39	Headlamp Cleaner Control Relay	90980–11194
A40	Junction Connector	90980–11661
A41	Junction Connector	90980–12372
A42	Junction Connector	
A43	Junction Connector	90980–11194
A44	Junction Connector	
A45	Headlamp (LH Low)	82824–60460
A49	Headlamp (RH Low)	

Code	Part Name	Part Number
A53	VSV (Air Intake Control)	90980–11156
A54	Cooling Fan ECU	90980–12058
A55	Engine ECU	90980–12462
A56	Short Connector	90980–12204
A57	Short Connector	90980–12012
A58	Junction Connector	90980–11661
B1	Windshield Wiper Motor	90980–11599
C1	Park/Neutral Position SW	90980–12362
C2	Air Flow Meter	90980–12292
C3	Starter	90980–11400
C4	EFI Water 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	Alternator	90980–11964
C19	Alternator (2AZ–FE)	90980–09213
	Alternator (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 ECU	90980–12398
C25	ECT Solenoid	90980–12326
C26	Transmission Revolution Sensor (Turbine)	90980–11156
C27	Transmission Revolution Sensor (Counter Gear)	
C28	Back–Up Lamp SW	90980–11250
C30	Knock Control Sensor (Bank 1)	90980–11875
C31	Camshaft Position Sensor	90980–10947
C32	Camshaft Timing Oil Control Valve	90980–11162
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)	

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

Code	Part Name	Part Number
C40	VVT Sensor (Bank 1 Exhaust Side)	90980–12353
C41	VVT Sensor (Bank 1 Intake Side)	
C42	Camshaft Timing Oil Control Valve (Bank 1 Exhaust Side)	90980–11162
C43	Camshaft Timing Oil Control Valve (Bank 1 Intake Side)	
C44	VVT Sensor (Bank 2 Exhaust Side)	90980–12353
C45	VVT Sensor (Bank 2 Intake Side)	
C46	Camshaft Timing Oil Control Valve (Bank 2 Exhaust Side)	90980–11162
C47	Camshaft Timing Oil Control Valve (Bank 2 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 ECU	90980–12396
C56	Transmission Control ECU	90980–12649
C57	Junction Connector	90980–11194
C58	Engine ECU	90980–12397
D1	Starter	90980–09463
E1	Diode (Door Courtesy Rear LH)	90980–10962
E2	Diode (Door Courtesy Rear RH)	
E3	Outer Mirror SW	90980–11657
E4	Headlamp Cleaner SW	90980–12551
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	DLC3	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

Code	Part Name	Part Number
E26	Windshield Wiper Relay	90980–12444
E27	A/C Room Temp. Sensor	90980–11918
E28	Cigarette Lighter	90980–11606
E29	Power Outlet Socket (Front)	90980–12498
E30	Airbag Sensor Assembly Center	90980–12391
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	
E47	Junction Connector	
E48	Junction Connector	90980–11542
E49	Junction Connector	
E55	Seat Heater SW	90980–10797
E62	Junction Connector	90980–12355
E63	Junction Connector	
E64	Headlamp Leveling SW	90980–11950
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
F15	Antenna Amplifier	90980–10871
F16	A/C Control Assembly	90980–12559
F21	Tweeter (Front LH)	90980–12304
F23	Tweeter (Front RH)	
H1	Speaker (Front Door RH)	90980–10935
H3	Outer Rear View Mirror (RH)	90980–12059
H4	Power Window Regulator Motor (Front RH)	90980–10797
H6	Power Window SW (Front RH)	90980–10789
H7	Courtesy Lamp (Front Door RH)	90980–11148
H8	Door Lock Assembly (Front RH)	90980–12226
H10	Power Window Regulator Motor (Front RH)	90980–12328

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
I1	Speaker (Front Door LH)	90980–10935
I2	Outer Rear View Mirror (LH)	90980–12059
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 (Front LH)	90980–12226
I9	Power Window SW (Front LH)	90980–10789
J1	Power Window SW (Rear RH)	
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
L1	Power Window Master SW	90980–12122
M1	Power Window Master SW	
N1	Airbag Sensor Assembly Center (LHD)	90980–12449
	Airbag Sensor Assembly Center (RHD)	90980–12450
N3	Front Seat Inner Belt (Front LH)	90980–10942
N4	Front Seat Inner Belt (Front LH)	90980–11950
N6	Door Courtesy SW (Front LH)	90980–10871
N7	Side Airbag Sensor (Front LH)	90980–12225
N8	Pretensioner (LH)	90980–12253
N9	Tension Reducer (LH)	90980–12063
N10	Fuel Suction Pump and Gage Assembly	90980–11077
N12	Side Airbag Sensor (Rear LH)	90980–11856
N13	Door Courtesy SW (Rear LH)	82824–33280
N15	Noise Filter (Dome and Stop)	90980–10916
N16	Center Stop Lamp	90980–11159
N18	Noise Filter (Rear Window Defogger)	90980–10916
N19	Rear Window Defogger	90980–10913
N21	Curtain Shield Airbag Squib (LH)	90980–12575
N22	Rear Window Defogger	90980–11259
N23	Diode (Luggage Compartment Lamp)	90980–10962
N26	Luggage Compartment Lamp	90980–11148
N27	Junction Connector	90980–12374
N28	Junction Connector	90980–11915
N29	Junction Connector	90980–11539
N30	Front Seat Inner Belt (Front LH)	90980–10795
O1	Airbag Sensor Assembly Center (LHD)	90980–12450
	Airbag Sensor Assembly Center (RHD)	90980–12449
O6	Door Courtesy SW (Front RH)	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

Code	Part Name	Part Number
O12	Speaker (Rear LH)	90980–11299
O13	Speaker (Rear RH)	
O16	Curtain Shield Airbag Squib (RH)	90980–12575
O17	Door Control Receiver	90980–12366
O20	Junction Connector	90980–12374
O21	Junction Connector	90980–11539
O22	Front Seat Inner Belt (Front RH)	90980–10795
O23	Height Control Sensor	90980–12353
O24	Front Seat Inner Belt (Front RH)	90980–10942
O25	Front Seat Inner Belt (Front RH)	90980–11950
O26	Tension Reducer (RH)	90980–12063
P1	Rear Window Defogger	90980–10914
Q1	Vanity Lamp SW (LH)	90980–12322
Q2	Vanity Lamp SW (RH)	
Q3	Inner Rear View Mirror	90980–11794
Q4	Rain Sensor	82824–50130
Q6	Overhead J/B	90980–11989
Q7	Vanity Lamp (LH)	–
Q8	Vanity Lamp (RH)	
Q9	Room Lamp (Center)	
Q10	Map Lamp (RH)	
Q11	Map Lamp (LH)	
Q12	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
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
S15	Junction Connector	90980–10803
S16	Junction Connector	90980–11915
T1	Power Seat Motor (Front RH Seat Slide Control)	90980–10825
T2	Power Seat Motor (Front RH Seat Front Vertical Control)	
T3	Power Seat Motor (Front RH Seat Reclining Control)	
T4	Power Seat Motor (Front RH Seat Lifter Control)	
T5	Power Seat Motor (Front RH Seat Lumbar Support Control)	
T6	Seat Heater (RH)	90980–10906

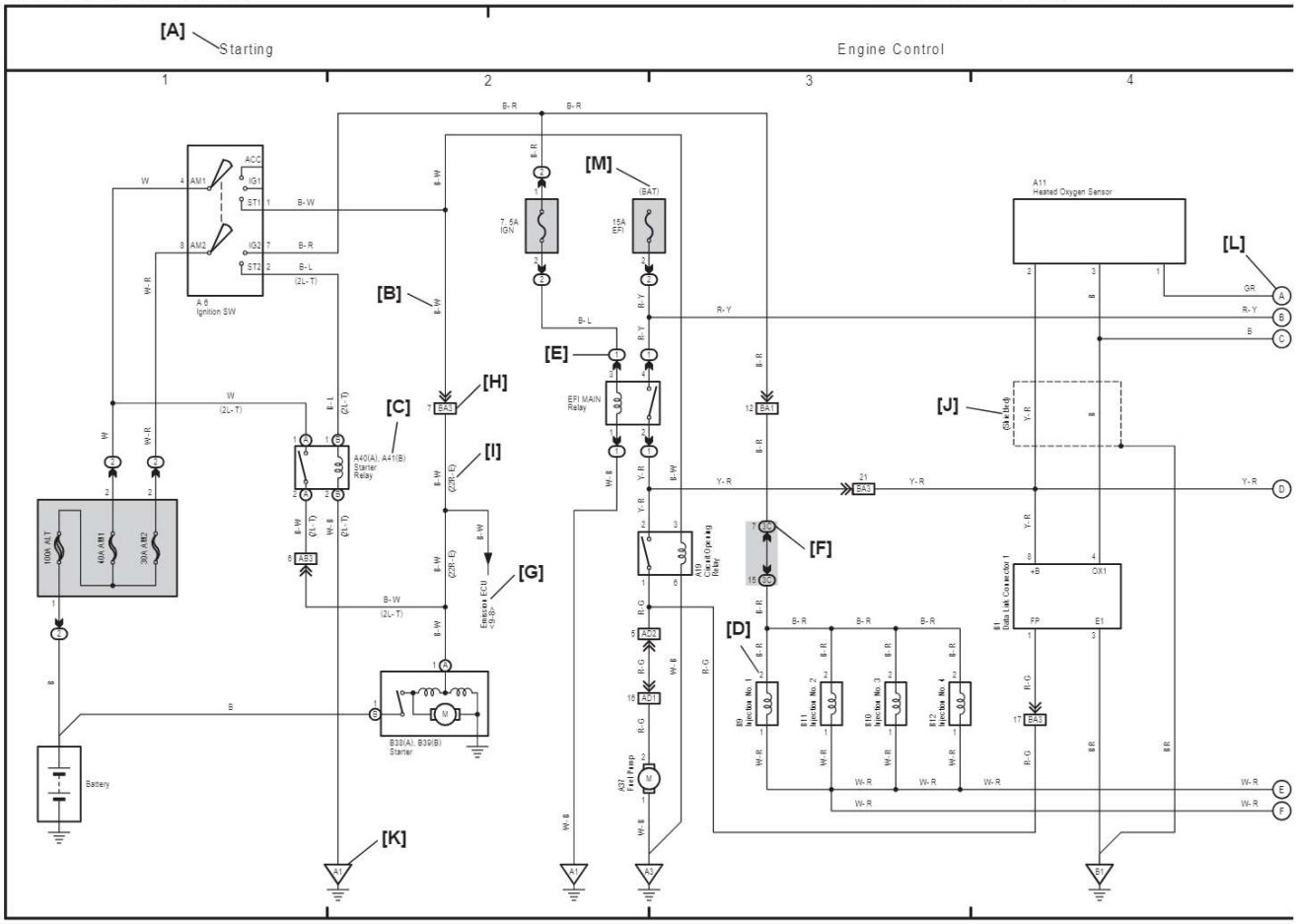
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
T8	Power Seat SW (Front RH Seat)	90980–10997
T9	Power Seat SW (Front RH Seat Lumbar Support Control)	90980–10789
T12	Front Seat Inner Belt (Front RH)	90980–10795
T13	Front Seat Inner Belt (Front RH)	90980–11950
T18	Junction Connector	90980–12374
U1	Power Seat Motor (Front LH Seat Slide Control)	90980–10825
U2	Power Seat Motor (Front LH Seat Front Vertical Control)	
U3	Power Seat Motor (Front LH Seat Reclining Control)	
U4	Power Seat Motor (Front LH Seat Lifter Control)	
U5	Power Seat Motor (Front LH Seat Lumbar Support Control)	
U6	Seat Heater (LH)	90980–10906
U7	Power Seat SW (Front LH Seat)	90980–10997
U8	Power Seat SW (Front LH Seat Lumbar Support Control)	90980–10789
U9	Front Seat Inner Belt (Front LH)	90980–10795

Code	Part Name	Part Number
U10	Front Seat Inner Belt (Front LH)	90980–11950
U11	Junction Connector	90980–12374
V1	Knock Control Sensor (Bank 2)	90980–11875
V2	Knock Control Sensor (Bank 1)	
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
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

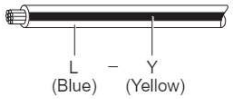
[B] : Indicates the wiring color.

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.

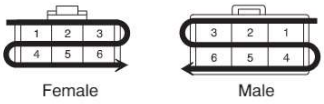
Example: L – Y



[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



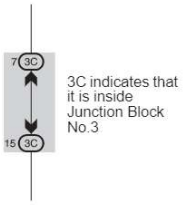
The numbering system for the overall wiring diagram is the same as above

[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

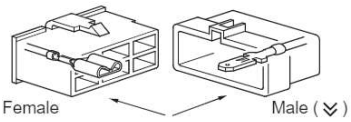
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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.

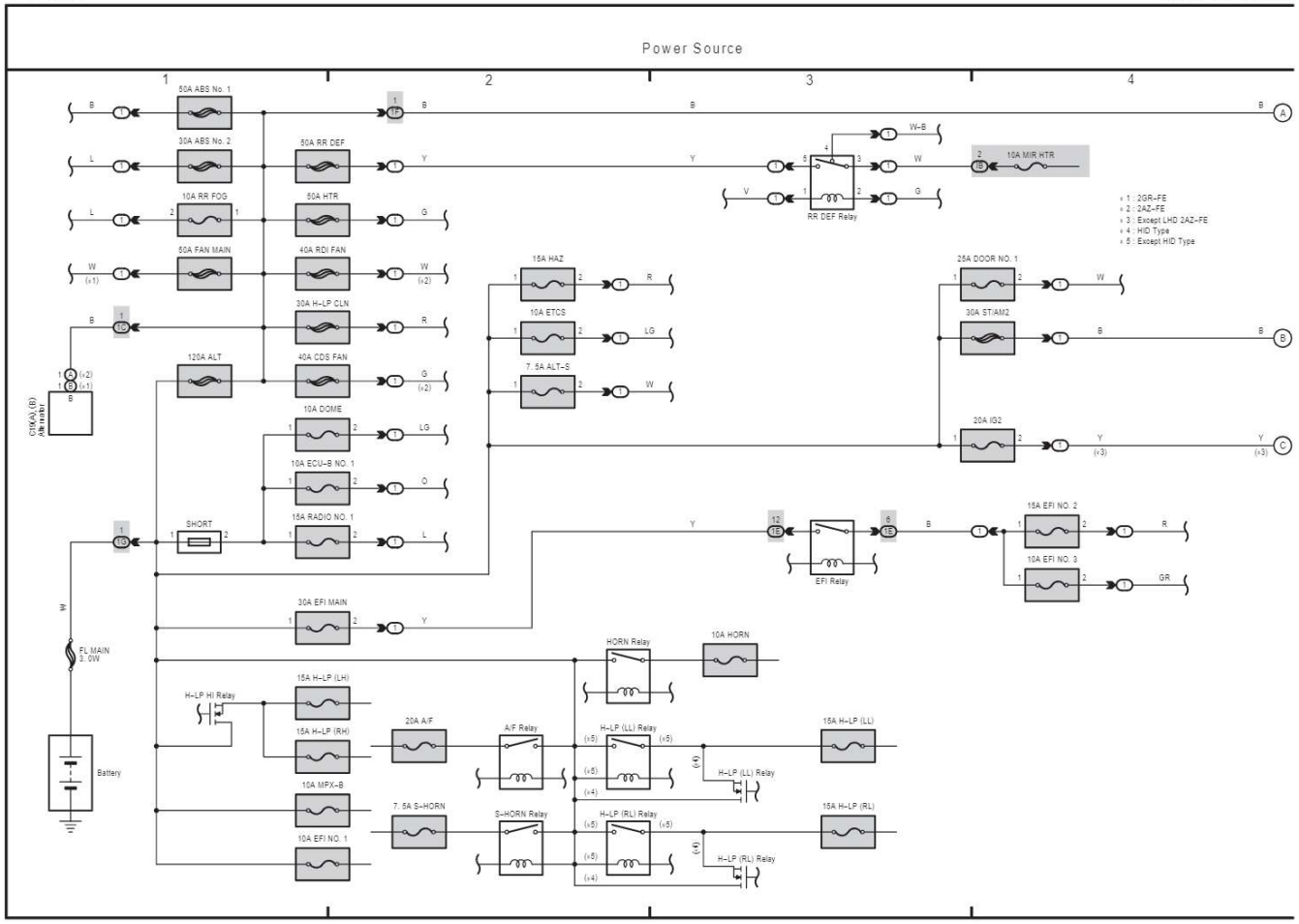
[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

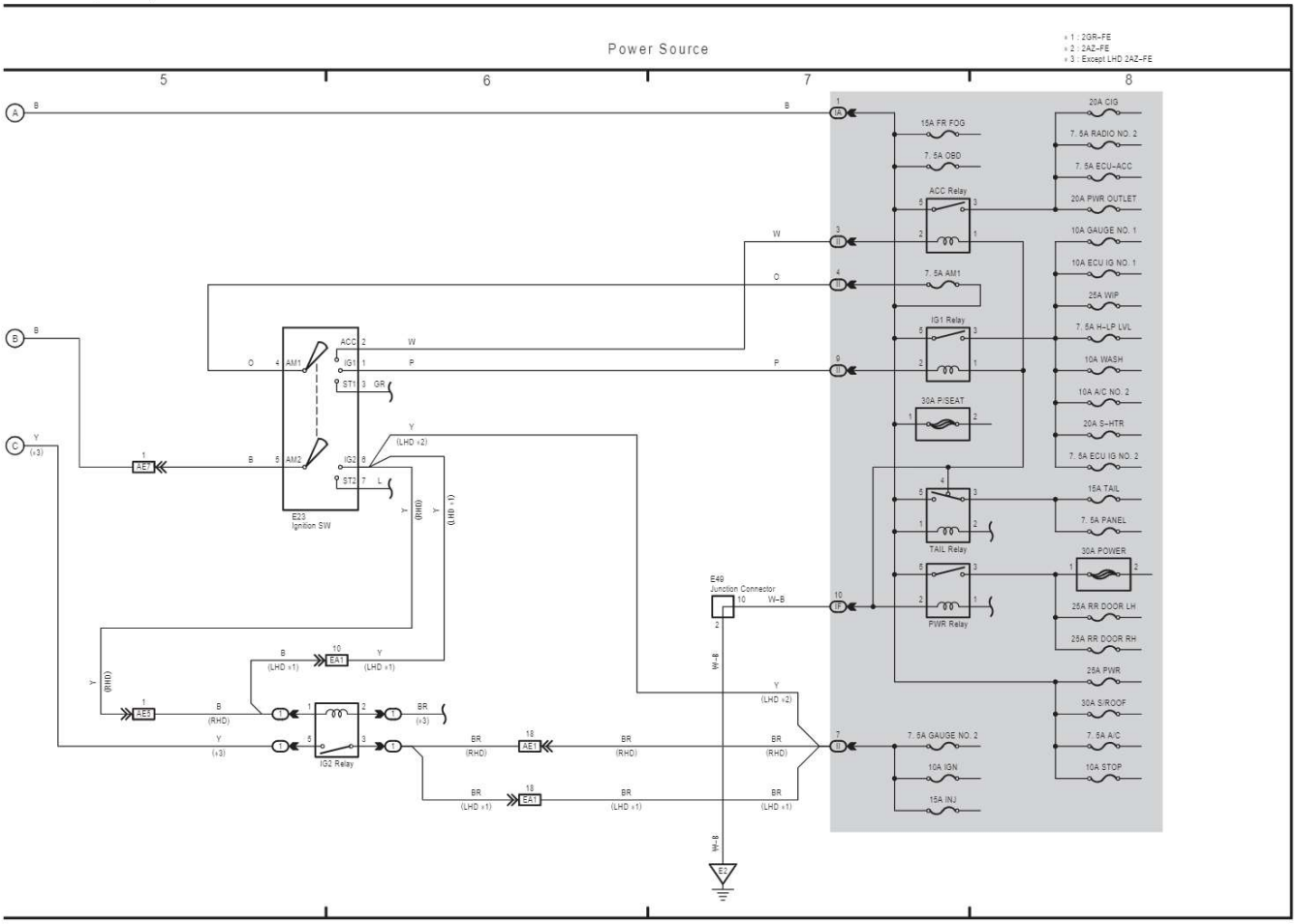
SYSTEM INDEX

SYSTEMS	LOCATION
ABS (w/ VSC)	18–1
ABS (w/o VSC)	19–1
Air Conditioner	29–1
Audio System	26–1
Automatic Glare–Resistant EC Mirror	17–3
Back–Up Light	11–1
Charging	3–3
Cigarette Lighter	11–3
Clock	10–3
Combination Meter	27–1
Cooling Fan (2GR–FE)	28–1
Cruise Control (2AZ–FE)	7–10
Cruise Control (2GR–FE)	6–15
DLC3	8–1
ECT and A/T Indicator (2AZ–FE)	7–11
ECT and A/T Indicator (2GR–FE)	6–17
Electric Tension Reducer	24–3
Engine Control (2AZ–FE)	7–1
Engine Control (2GR–FE)	6–1
Engine Immobiliser System	8–3
Front Wiper and Washer	15–1
Headlight Beam Level Control (Automatic)	12–1
Headlight Beam Level Control (Manual)	13–1
Headlight Cleaner	14–1
Horn	14–3
Ignition (2AZ–FE)	5–1
Ignition (2GR–FE)	4–1
Mirror Heater	25–2
Multiplex Communication System (CAN)	2–1
∗ Automatic Light Control	
∗ Door Lock Control	
∗ Front Fog Light	
∗ Headlight	
∗ Illumination	
∗ Interior Light	
∗ Key Reminder	
∗ Light Auto Turn Off System	
∗ Luggage Compartment Door Opener	
∗ Power Window	
∗ Rear Fog Light	
∗ Seat Belt Warning	
∗ Taillight	
∗ Theft Deterrent	
∗ Wireless Door Lock Control	
Power Outlet	17–4
Power Seat (LHD Driver's Seat)	22–1
Power Seat (LHD Front Passenger's Seat)	22–3
Power Seat (RHD Driver's Seat)	23–1
Power Seat (RHD Front Passenger's Seat)	23–3
Power Source	1–1
Radiator Fan and Condenser Fan (2AZ–FE)	28–3
Rear Window Defogger	25–2
Remote Control Mirror	16–1
Seat Heater	24–1
Shift Lock	25–1
Sliding Roof	17–1
SRS (LHD)	20–1
SRS (RHD)	21–1
Starting	3–1
Stop Light	10–1
TRC	18–1
Turn Signal and Hazard Warning Light	9–1
VSC	18–1

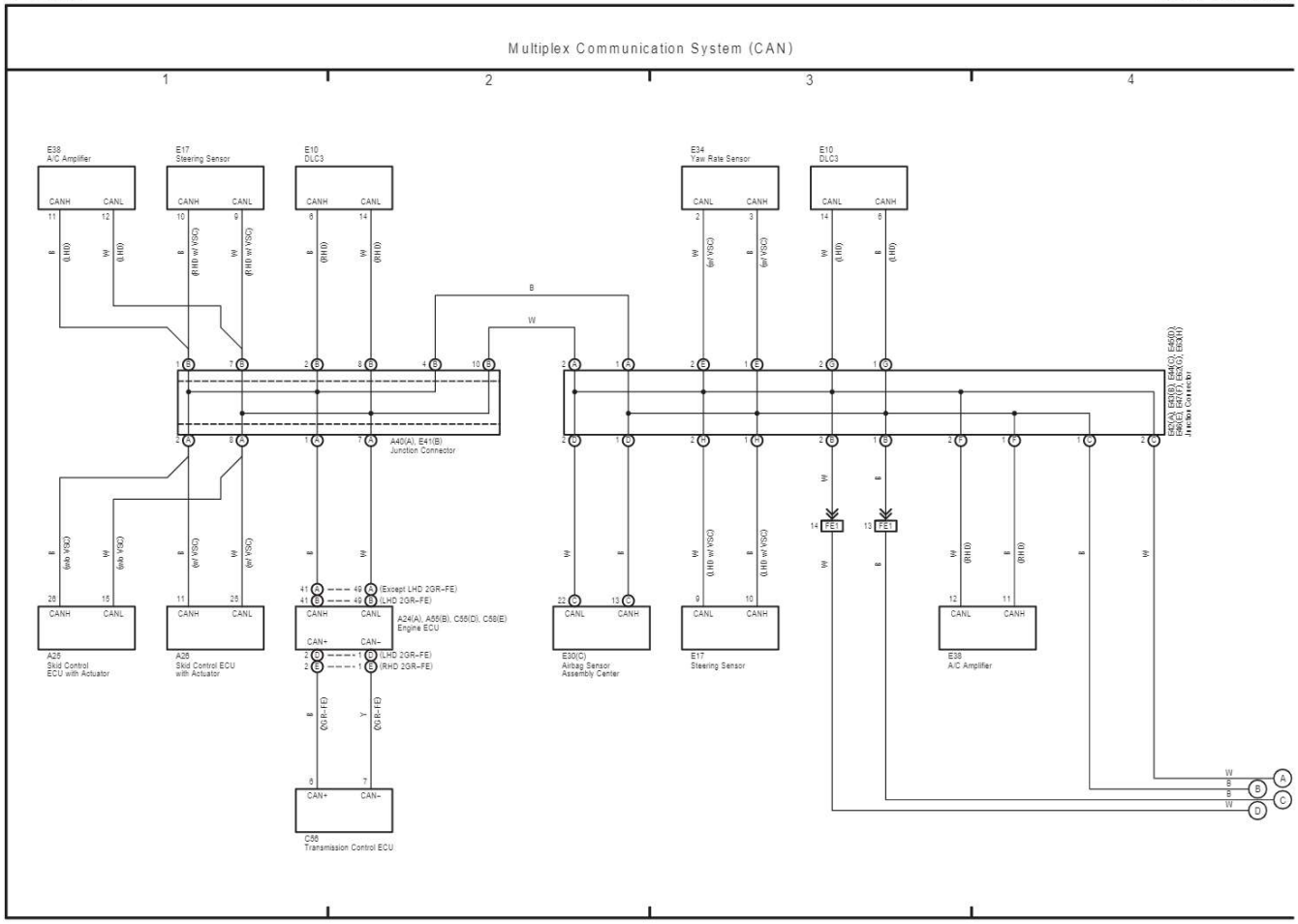
1 CAMRY

(Cont. next page)

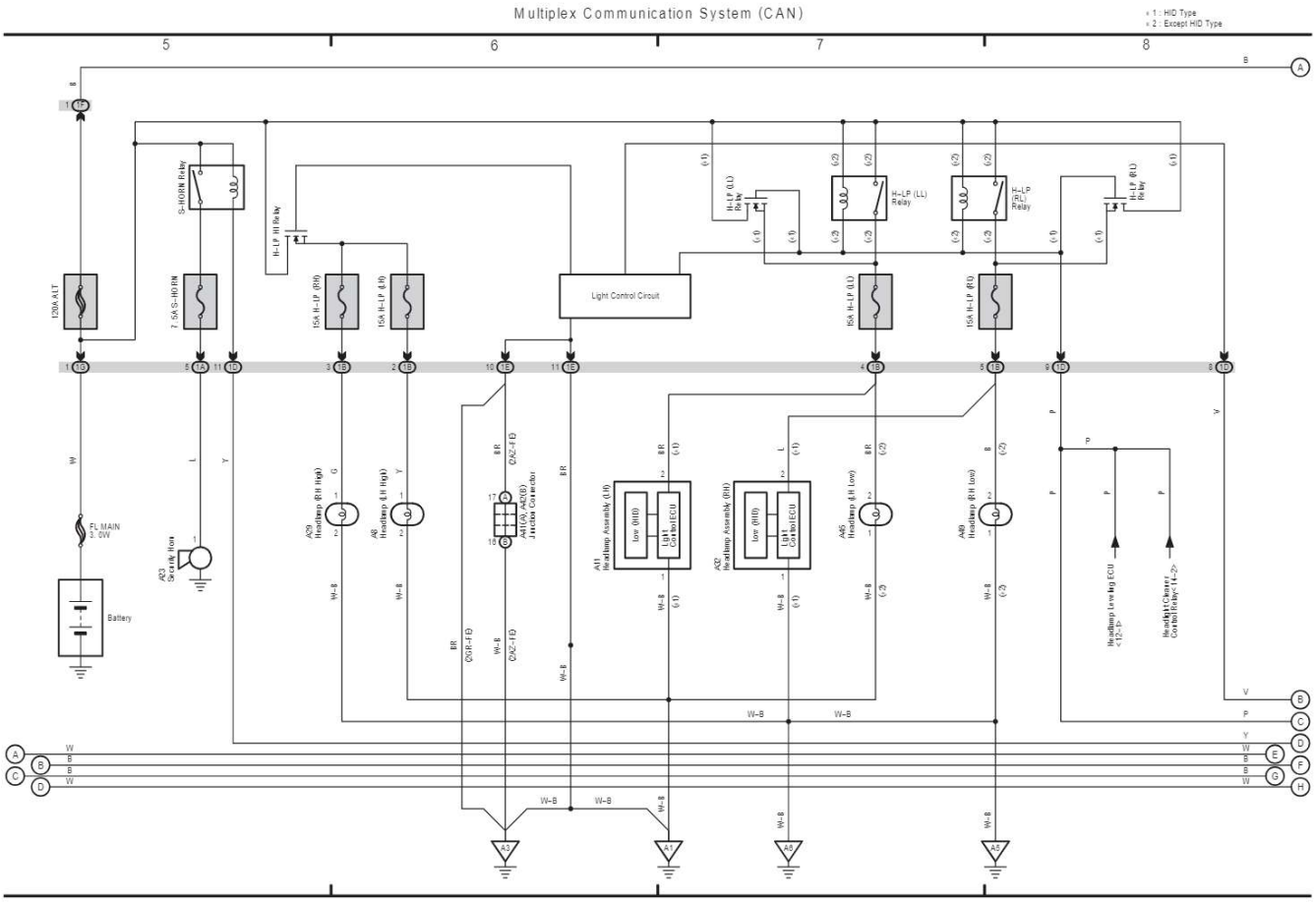



Power Source
* 1 : 2GR-FE
* 2 : 2AZ-FE
* 3 : Except LHD 2AZ-FE
5
6
7
8
15A FR FOG
7. 5A OBD
ACC Relay
7. 5A AM1
IG1 Relay
30A P/SEAT
TAIL Relay
PWR Relay
7. 5A GAUGE NO. 2
10A IGN
15A INJ
20A CIG
7. 5A RADIO NO. 2
7. 5A ECU-ACC
20A PWR OUTLET
10A GAUGE NO. 1
10A ECU IG NO. 1
25A WIP
7. 5A H-LP LVL
10A WASH
10A A/C NO. 2
20A S-HTR
7. 5A ECU IG NO. 2
15A TAIL
7. 5A PANEL
30A POWER
25A RR DOOR LH
25A RR DOOR RH
25A PWR
30A S/ROOF
7. 5A A/C
10A STOP
E23
Ignition SW
IG2 Relay
E49
Junction Connector
E2

(Cont. next page)

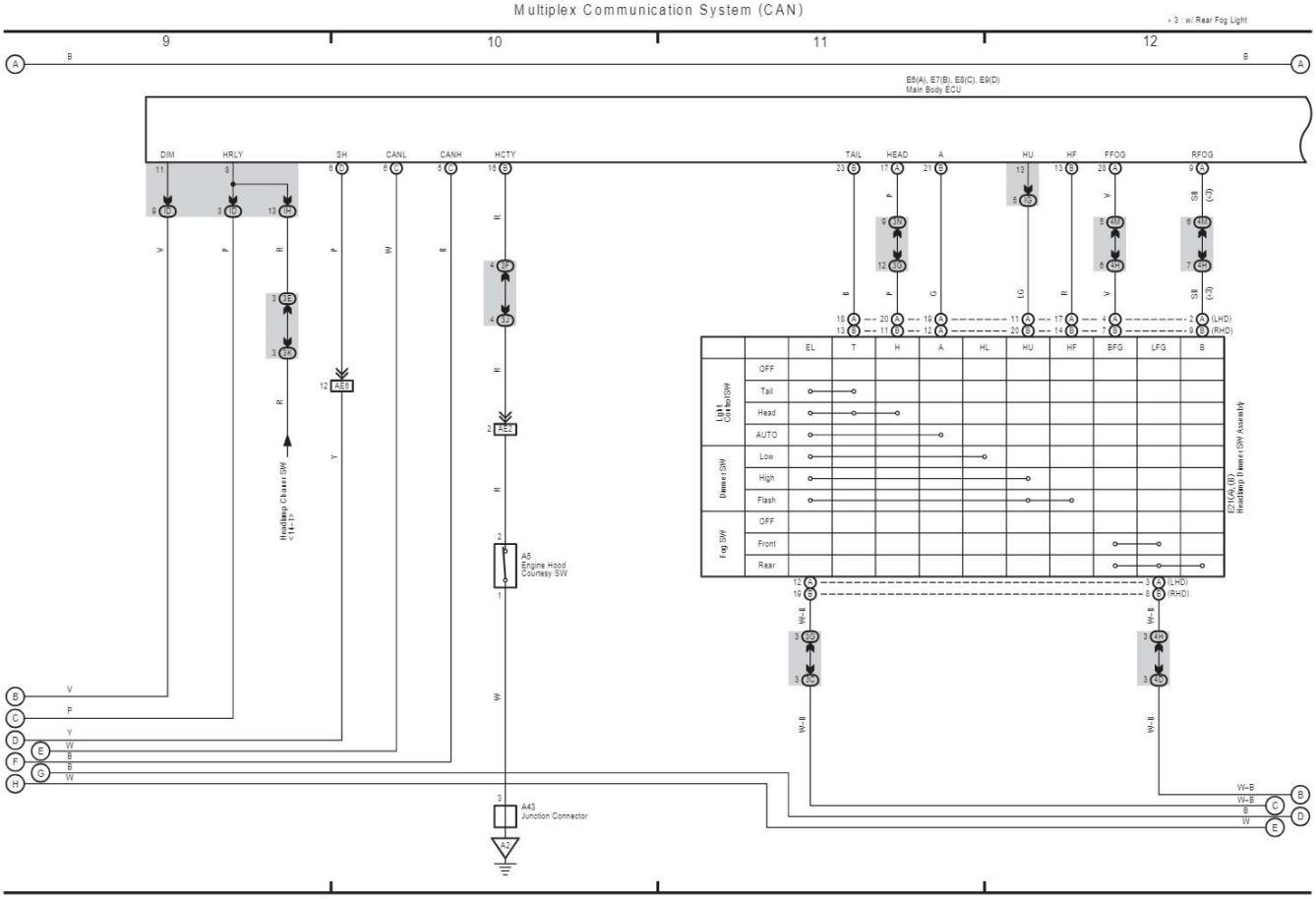


(Cont. next page)

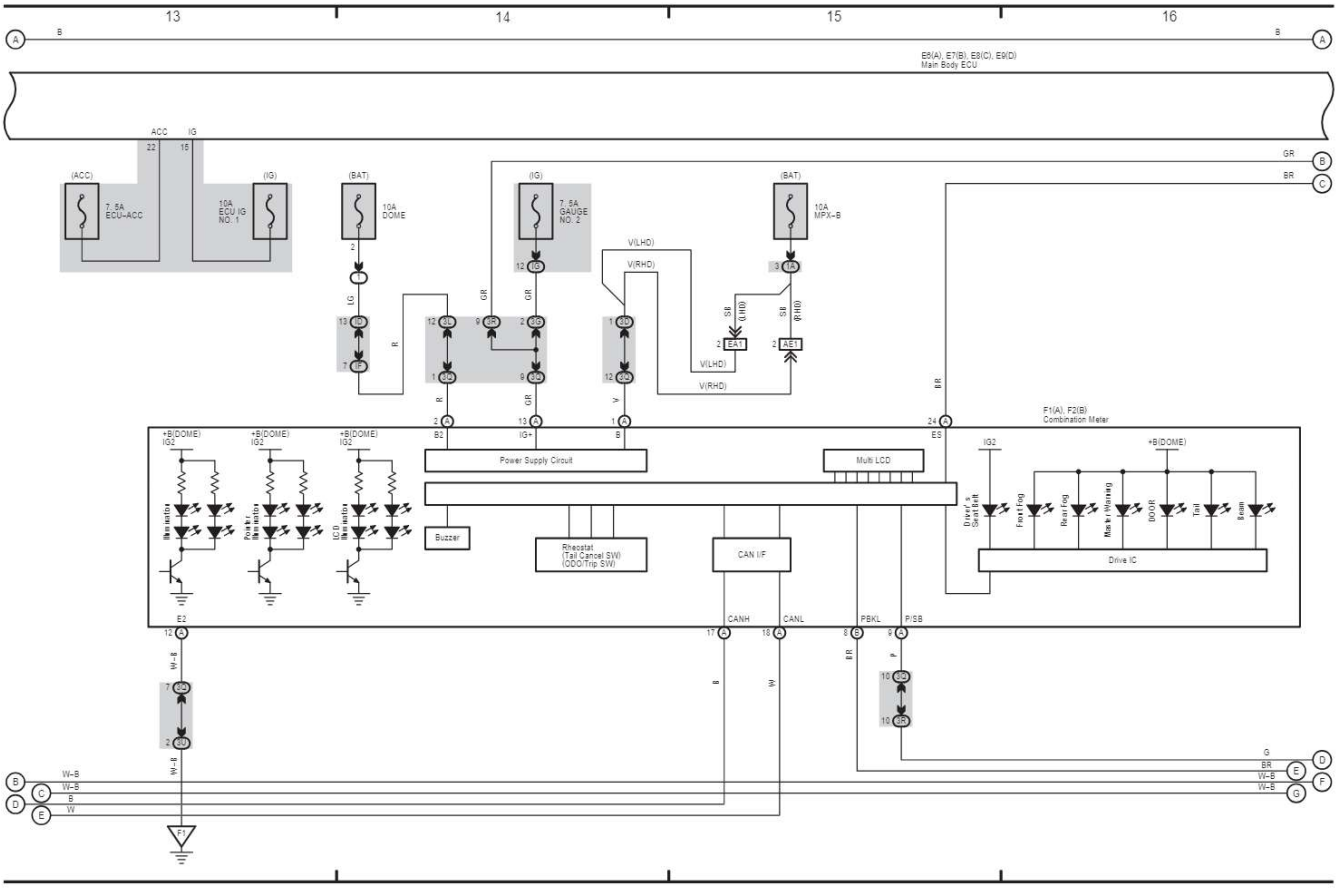


2 CAMRY (Cont' d)

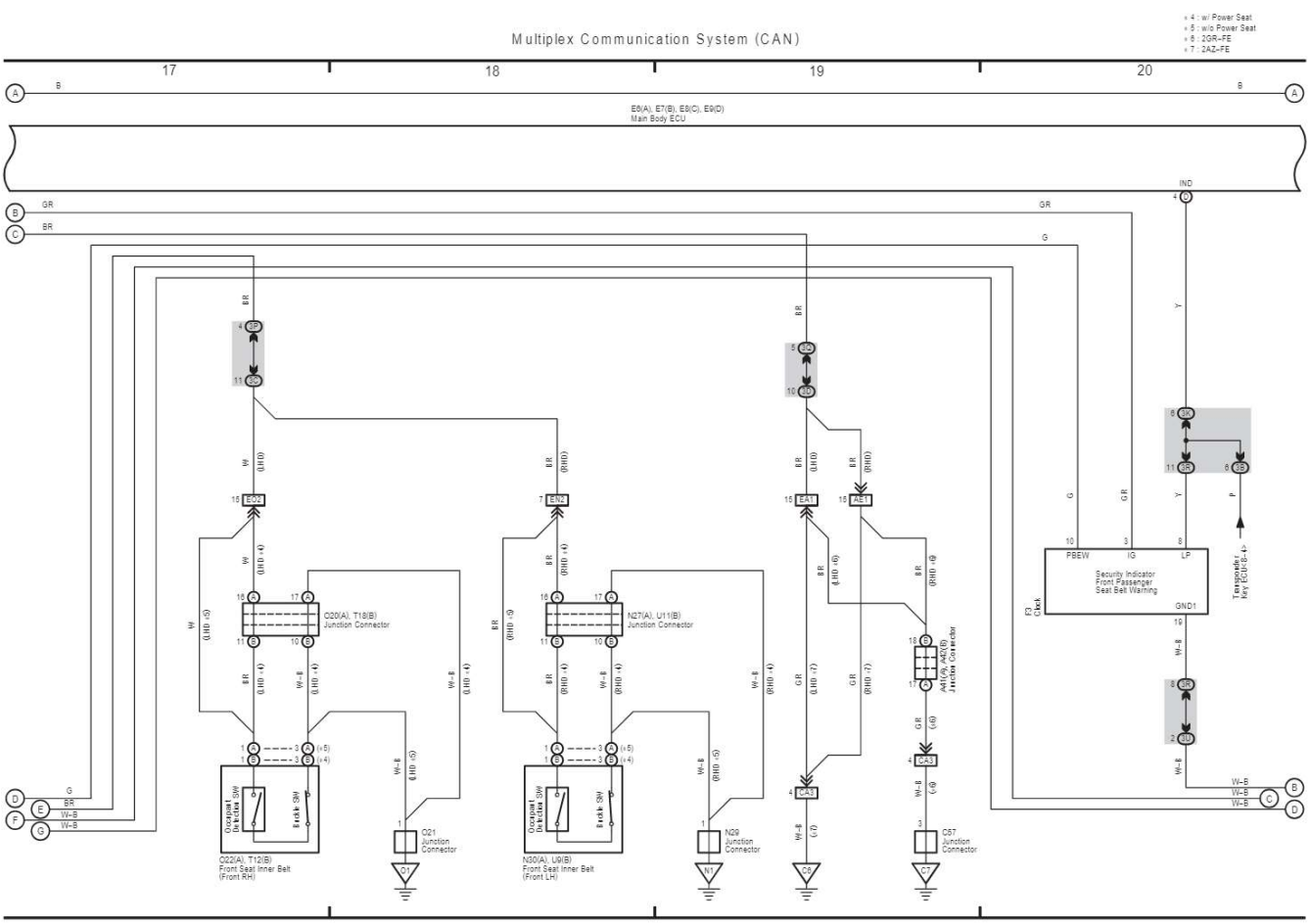
(Cont. next page)



Multiplex Communication System (CAN)

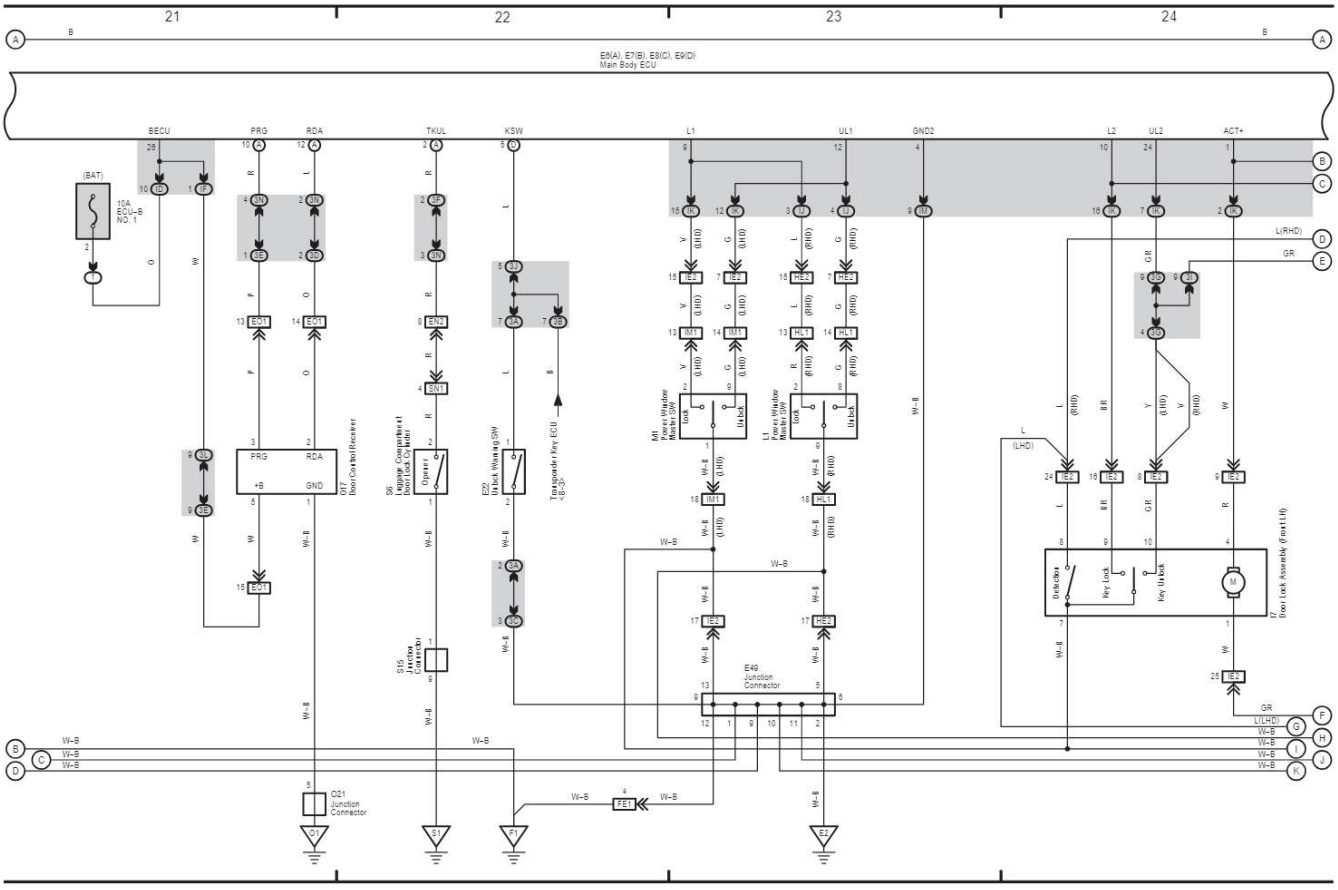


(Cont. next page)



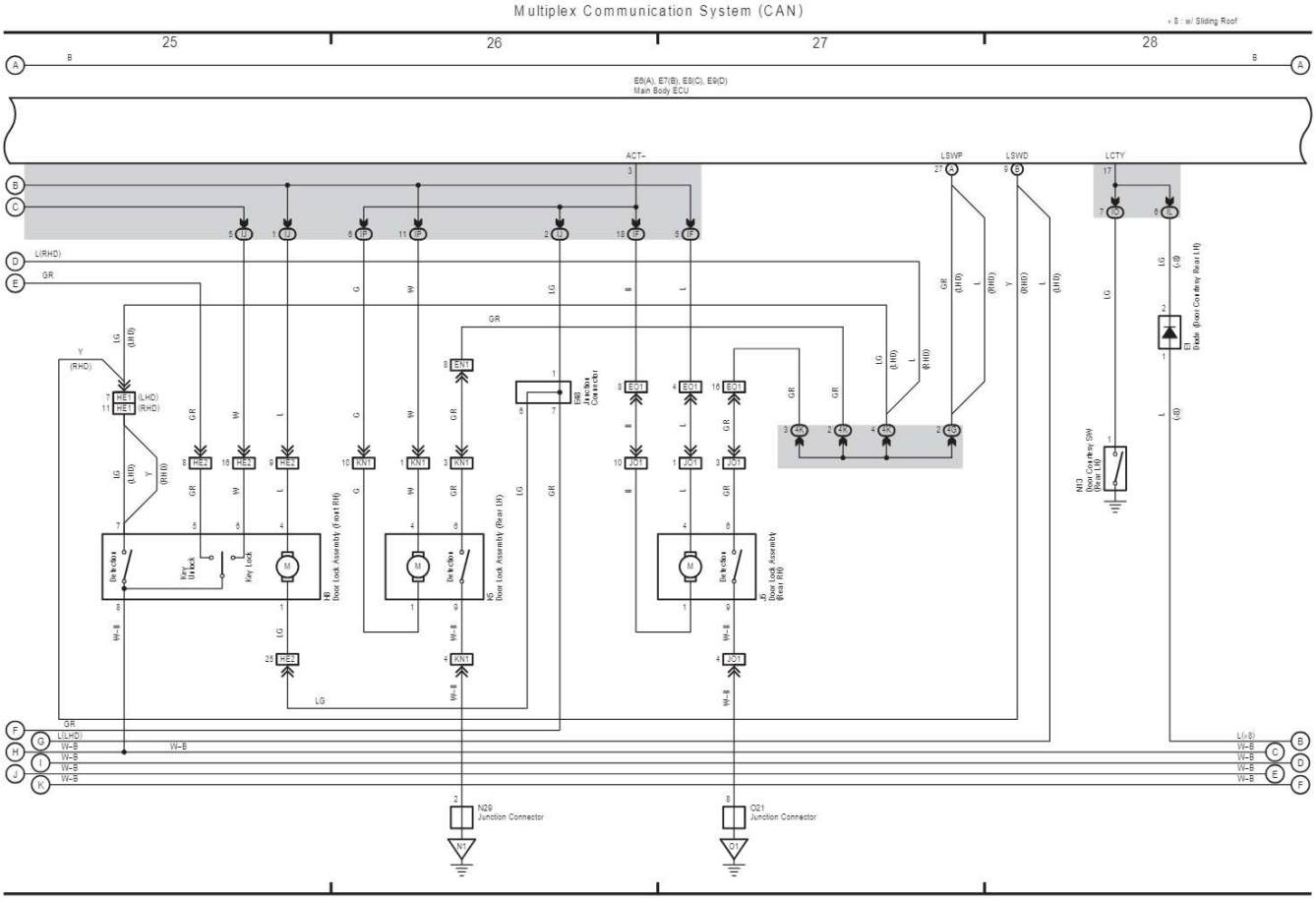
(Cont. next page)

Multiplex Communication System (CAN)

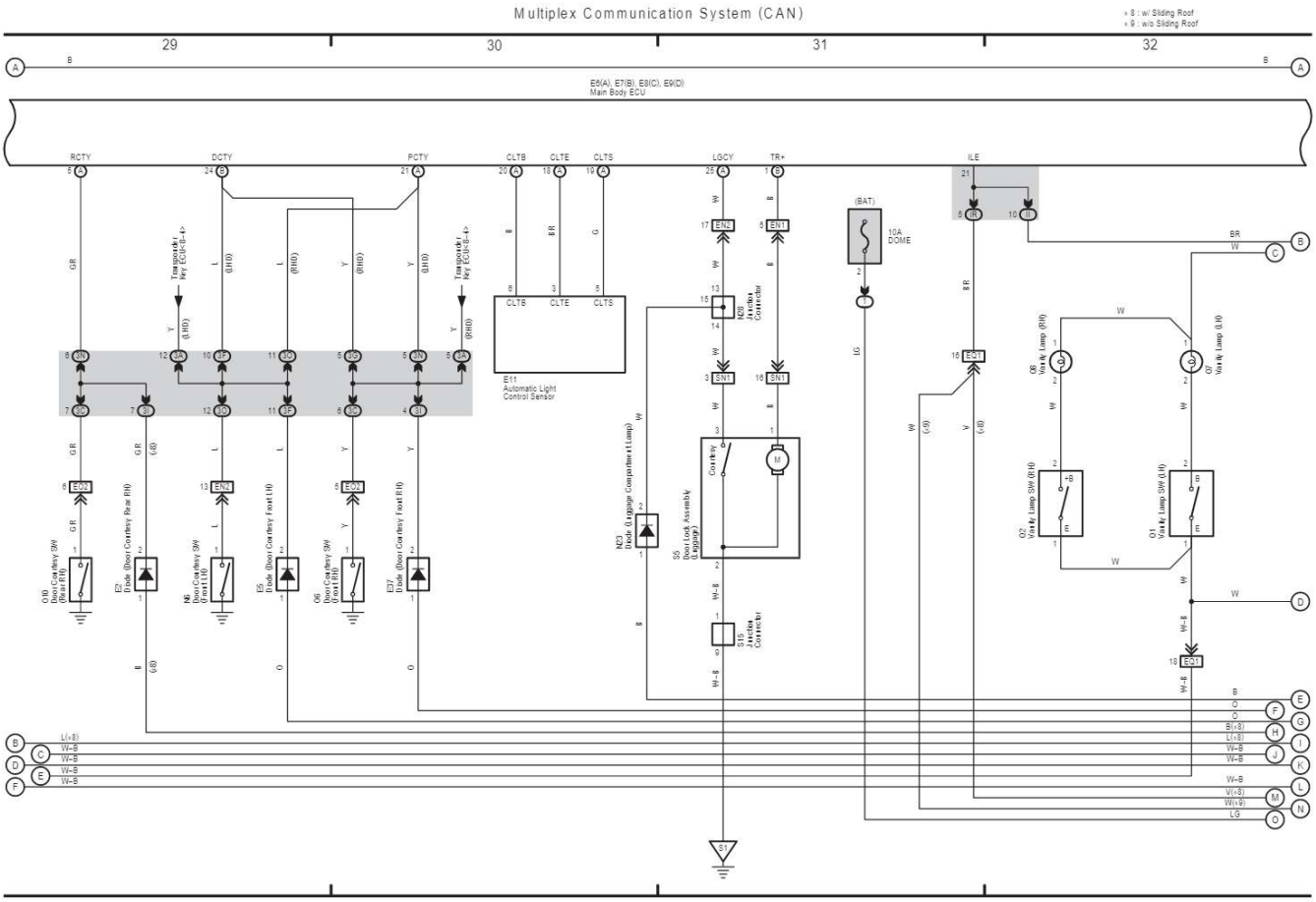


2 CAMRY (Cont' d)

(Cont. next page)

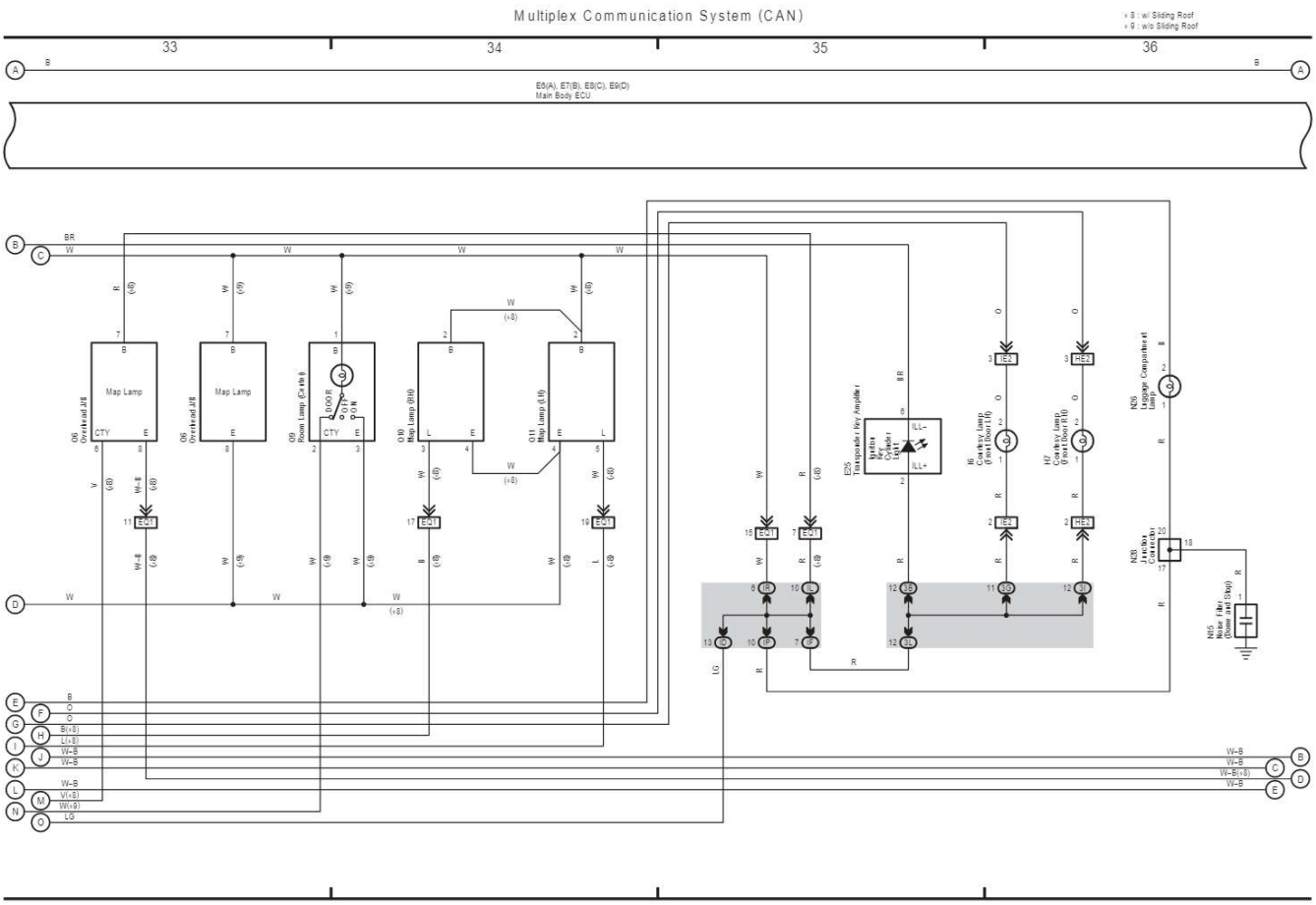


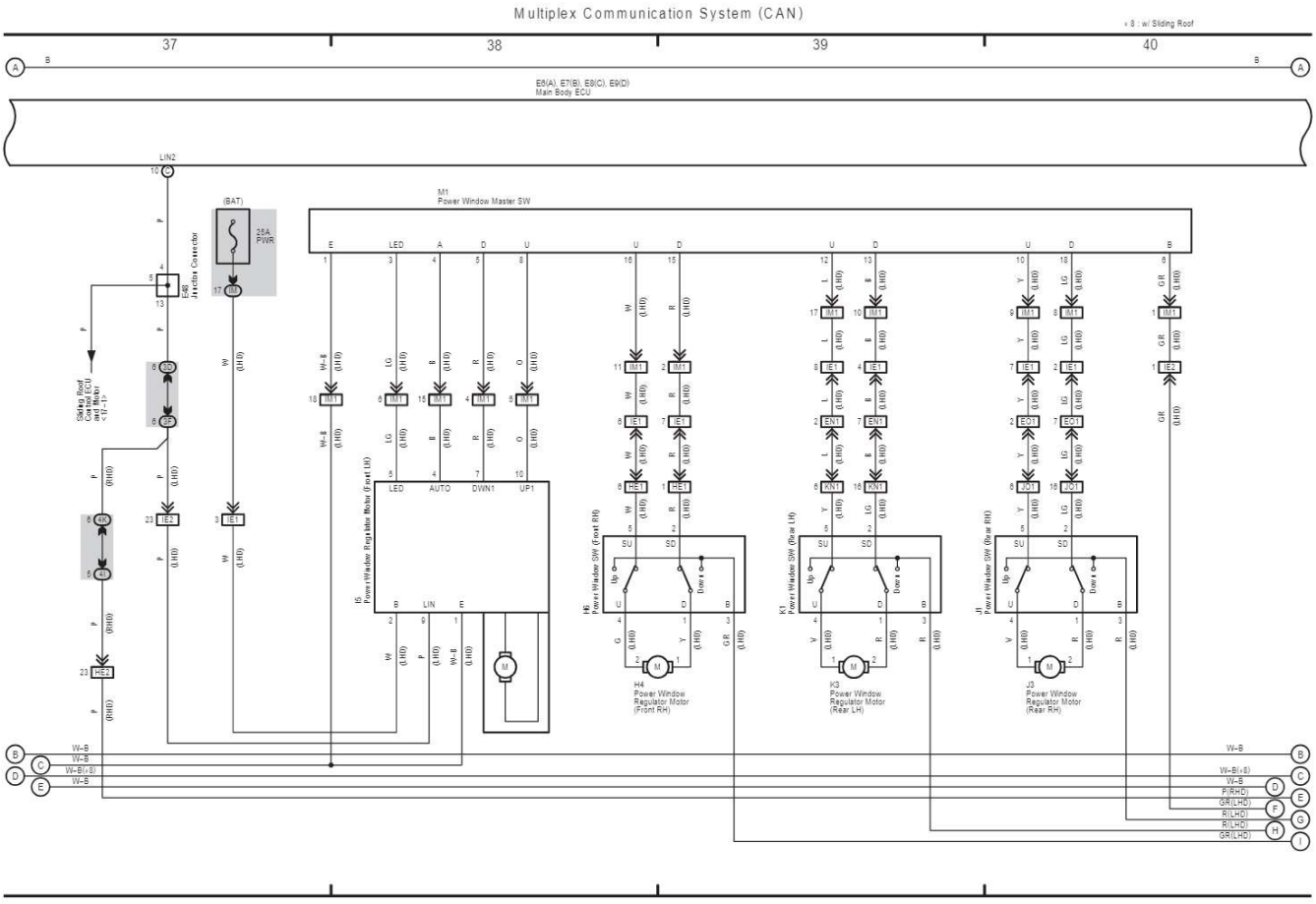
(Cont. next page)

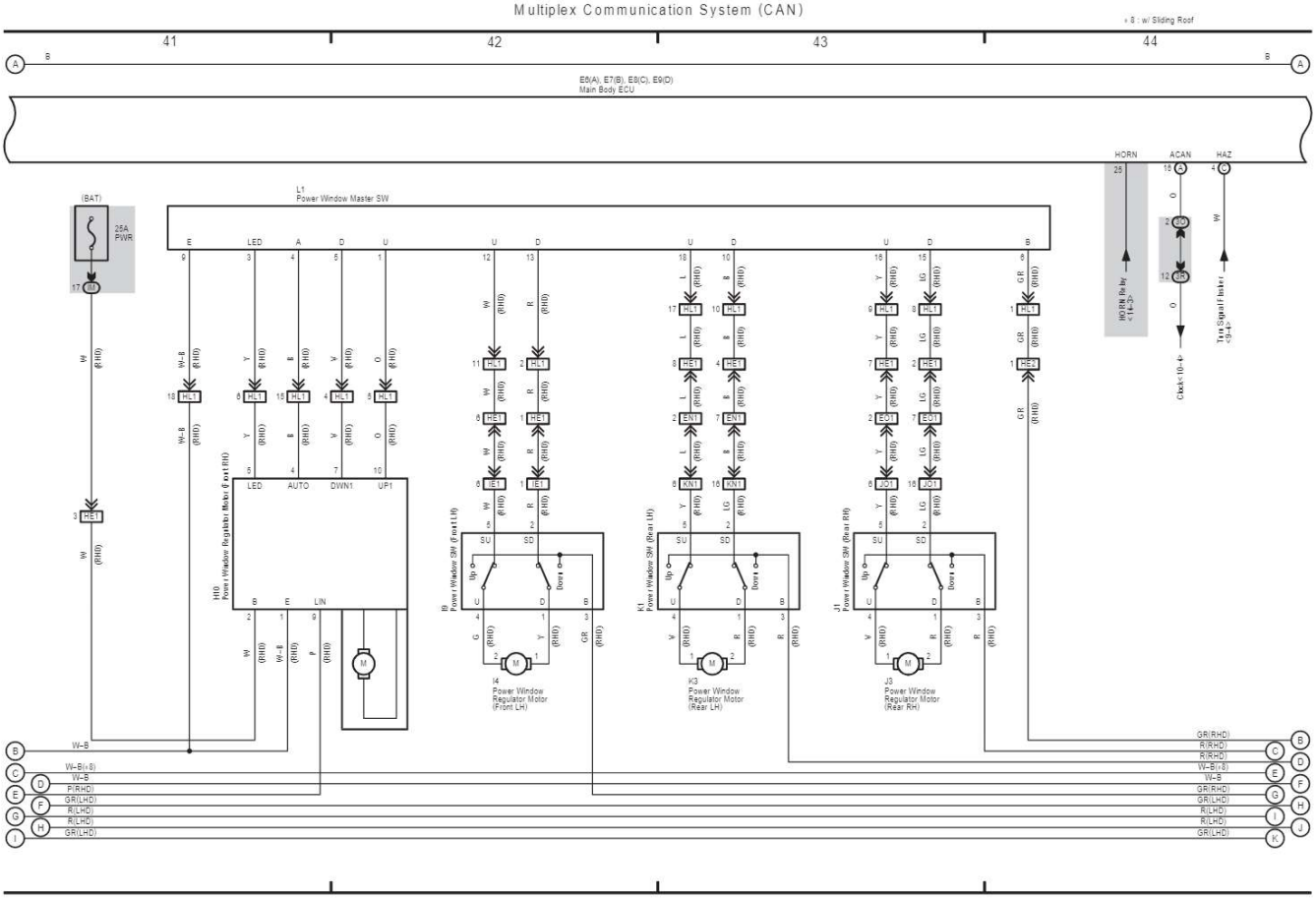


2 CAMRY (Cont' d)

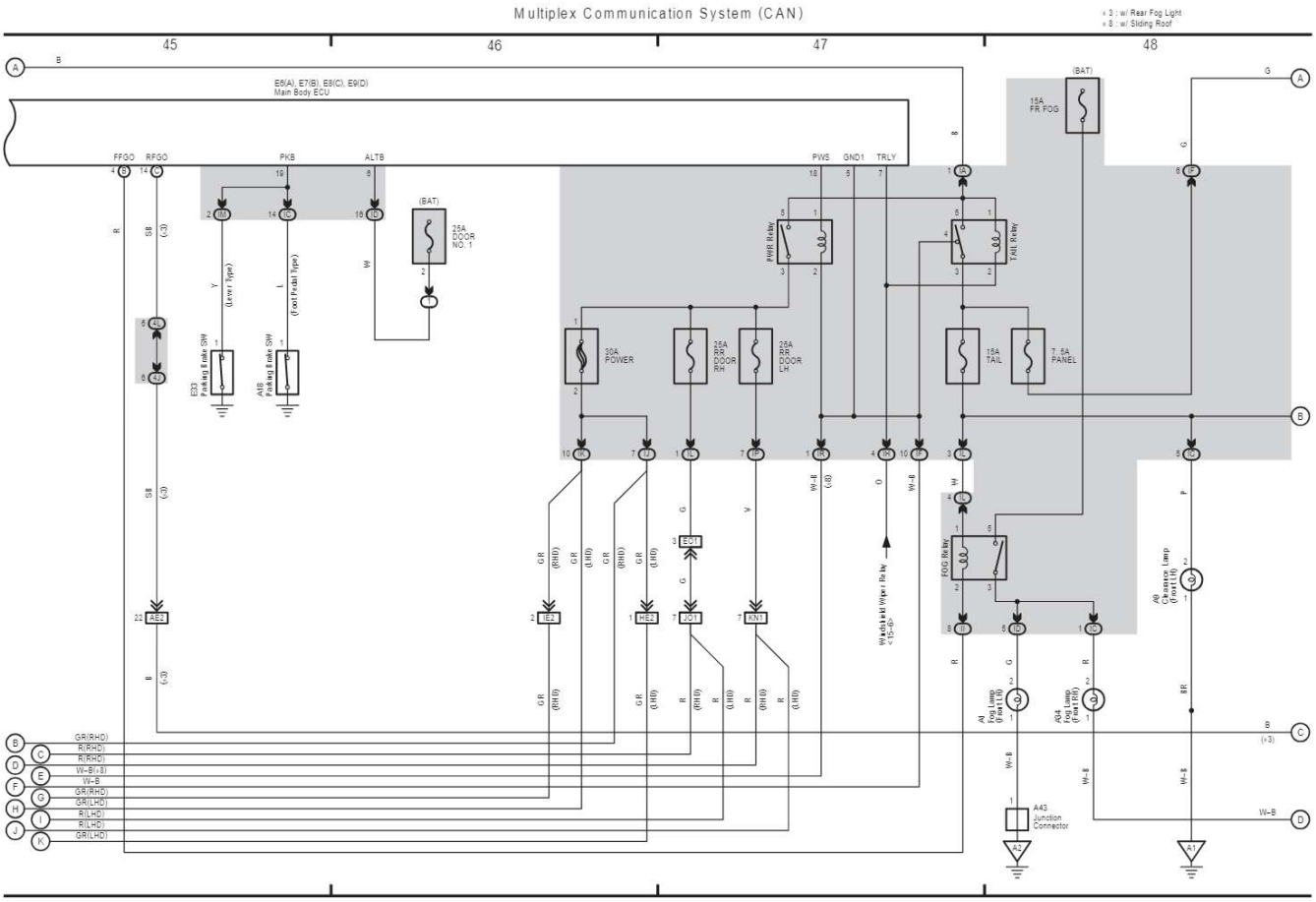
(Cont. next page)




Multiplex Communication System (CAN)
* 8 : w/ Sliding Roof
37
38
39
40
E8(A), E7(B), E9(C), E9(D)
Main Body ECU
LIN2
(BAT)
25A PWR
EA6 Junction Connector
M1
Power Window Master SW
E LED A D U
U D
U D
U D B
Sliding Roof Control ECU and Motor
LED AUTO DWN1 UP1
I5
Power Window Regulator Motor (Front LH)
B LIN E
H5
Power Window SW (Front RH)
K1
Power Window SW (Rear LH)
J1
Power Window SW (Rear RH)
Up
Down
SU SD
U D B
H4
Power Window Regulator Motor (Front RH)
K3
Power Window Regulator Motor (Rear LH)
J3
Power Window Regulator Motor (Rear RH)
W-B
W-B
W-B(*8)
W-B
W-B
W-B(*8)
W-B
F(RHD)
GR(LHD)
R(LHD)
R(LHD)
GR(LHD)

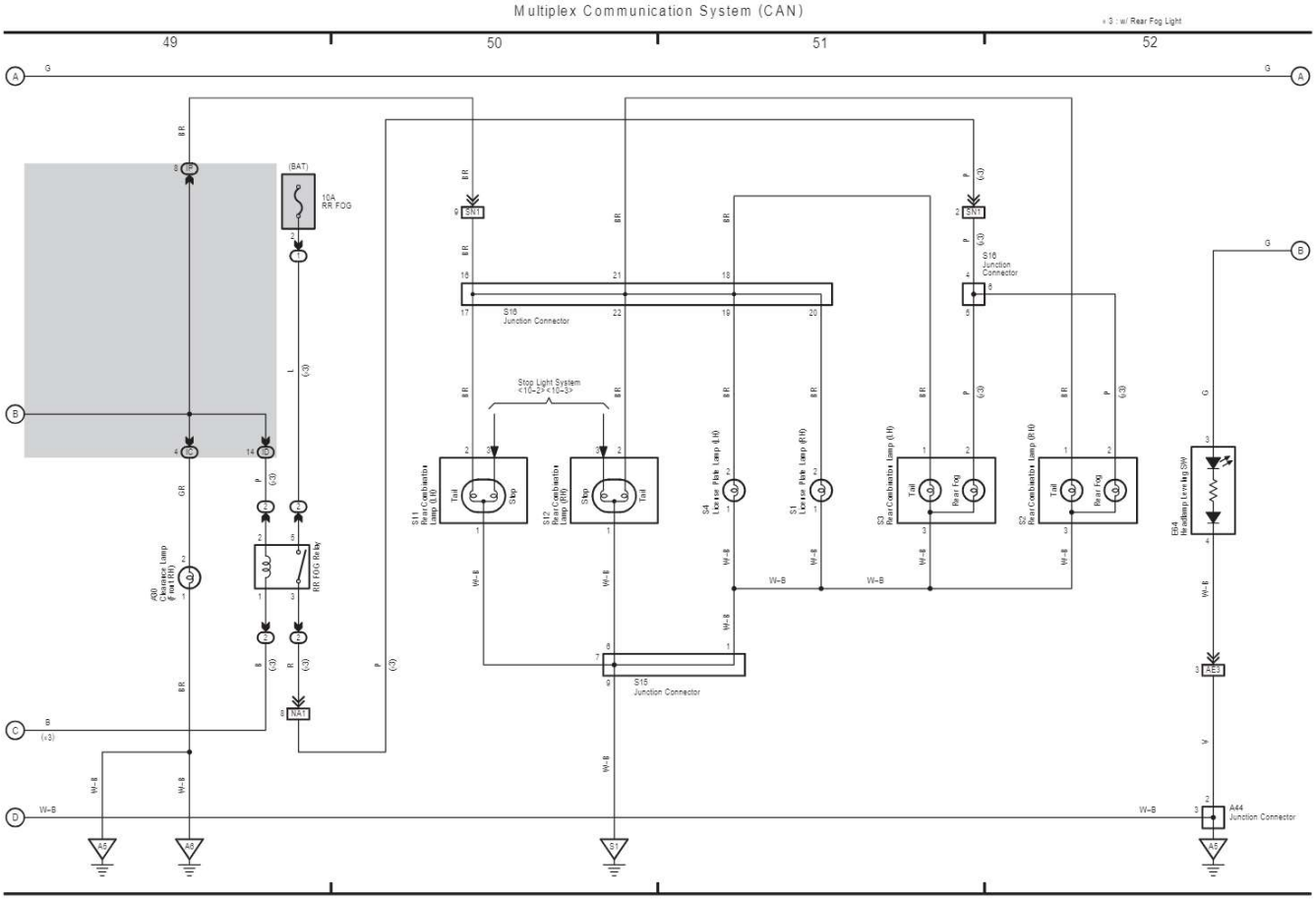

Multiplex Communication System (CAN)
* 8 : w/ Sliding Roof
41
42
43
44
E6(A), E7(B), E8(C), E9(D)
Main Body ECU
(BAT)
25A PWR
L1
Power Window Master SW
H10
Power Window Regulator Motor (Front RH)
I8
Power Window Switch (Front LH)
I4
Power Window Regulator Motor (Front LH)
K1
Power Window Switch (Rear LH)
K3
Power Window Regulator Motor (Rear LH)
J1
Power Window Switch (Rear RH)
J3
Power Window Regulator Motor (Rear RH)
HORN
ACAN
HAZ
HORN Relay <14-2>
Clock-10-4
Turn Signal Flasher <9-4>
W-B
W-B(*8)
P(RHD)
GR(LHD)
R(LHD)
GR(RHD)
R(RHD)

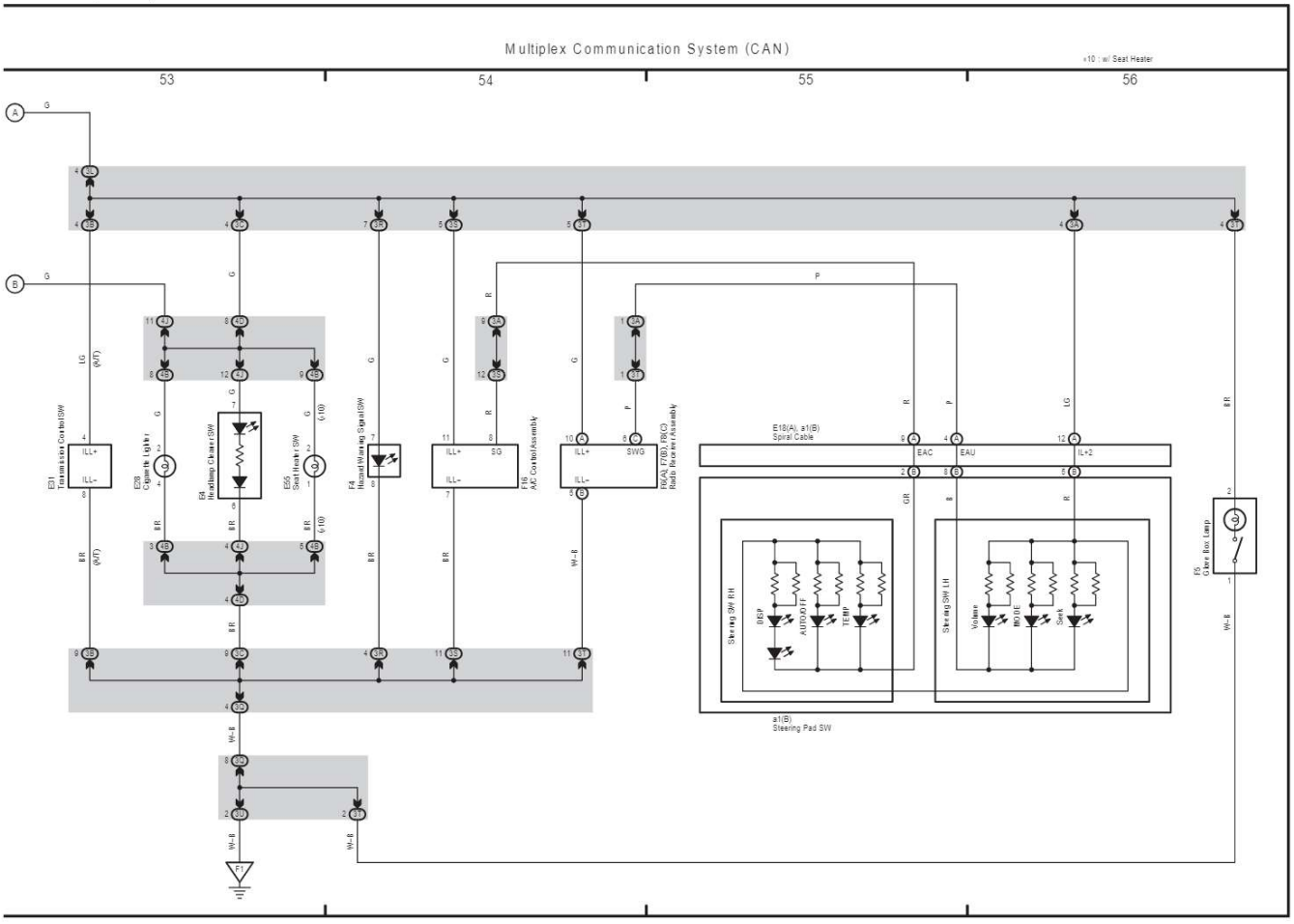
(Cont. next page)

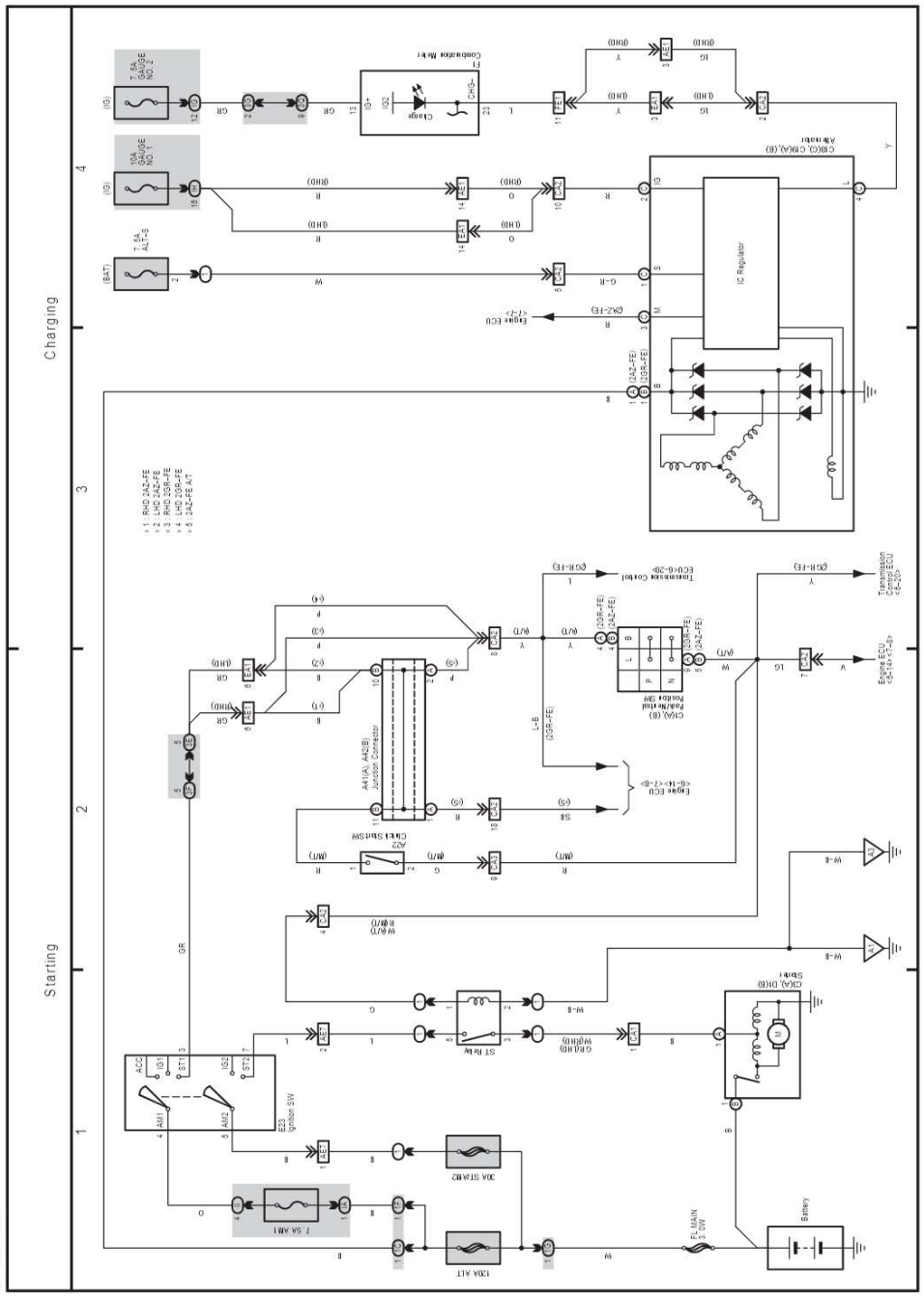


2 CAMRY (Cont' d)

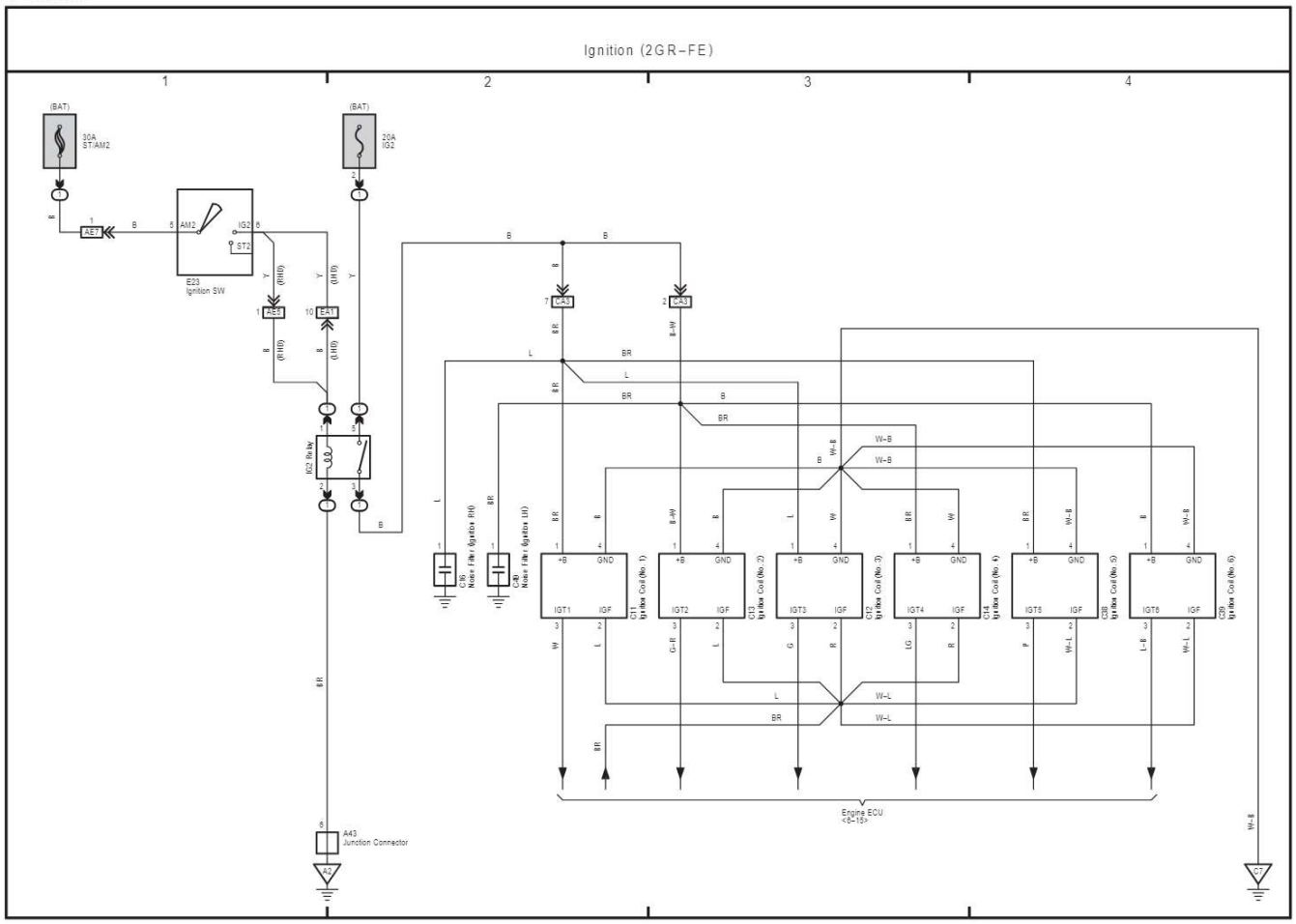
(Cont. next page)

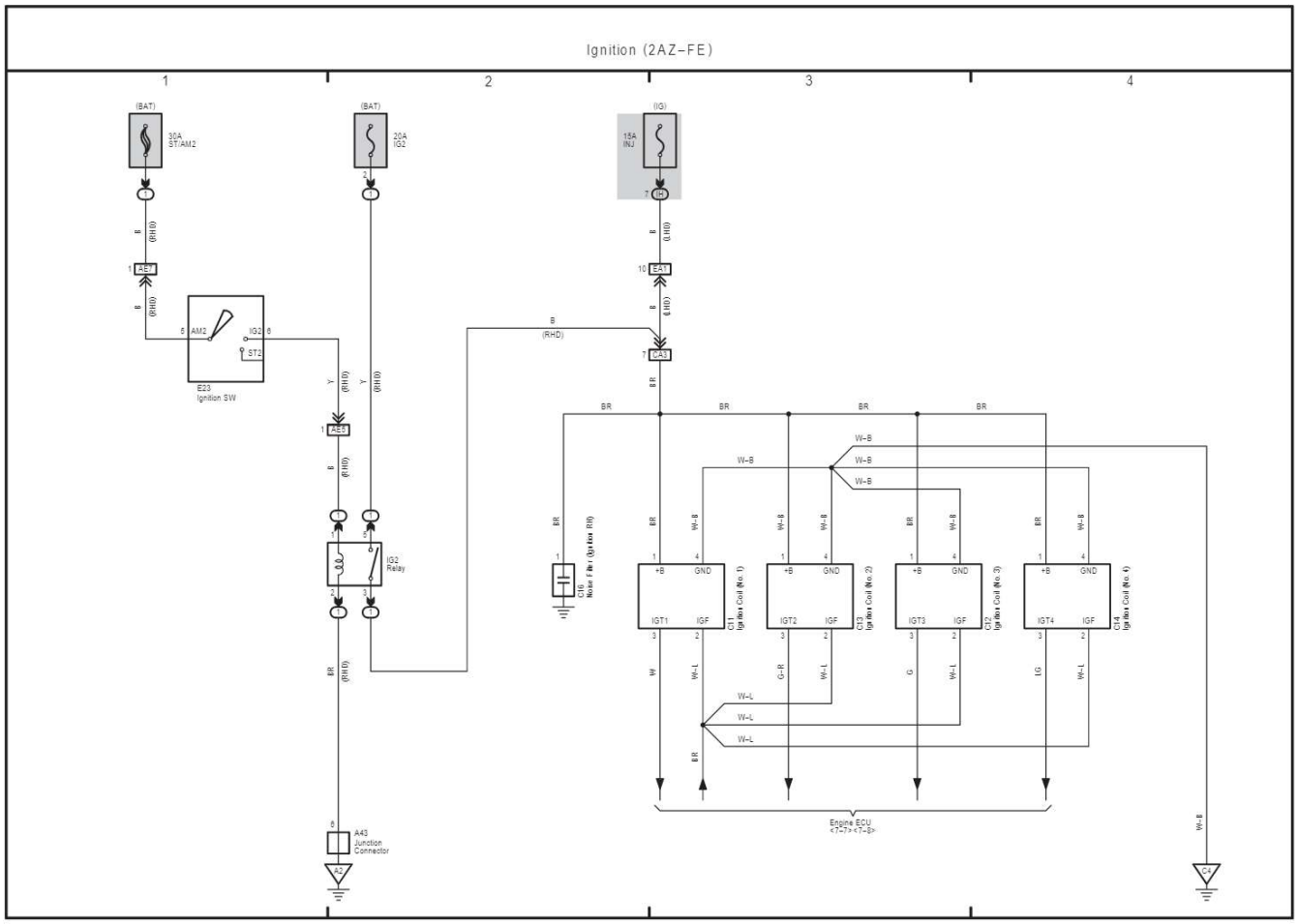



Multiplex Communication System (CAN)
*10 : w/ Seat Heater
53
54
55
56
E18(A), a1(B)
Spiral Cable
EAC
EAU
IL+2
Steering SW RH
DISP
AUDIO/TF
TEL
Steering SW LH
Volume
MODE
Seek
a1(B)
Steering Pad SW
E5
Glove Box Lamp
E1
Transmitter Control SW
E28
Cigarette Lighter
E4
Heating Cleaner SW
E55
Seat Heater SW
F4
Hazard Warning Signal SW
F16
A/C Control Assembly
E6(A), F7(B), F8(C)
Radio Receiver Assembly
ILL+
ILL-
SG
SWG


3 CAMRY
Charging
Starting
IC Regulator
Battery
Ignition SW
Starter
Combination Meter
Engine ECU
Transmission Control ECU
Junction Connector
Fusible Link Block
Clutch Start SW
ST Relay
ACC
IG1
IG2
ST1
ST2
AM1
AM2
30A ST&M2
7.5A AM1
120A ALT
E1 MAIN 2.0W
7.5A GAUGE NO.2
10A GAUGE NO.1
7.5A ALT-S
RHD 2AZ-FE
LHD 2AZ-FE
RHD 3GR-FE
LHD 3GR-FE
2AZ-FE A/T

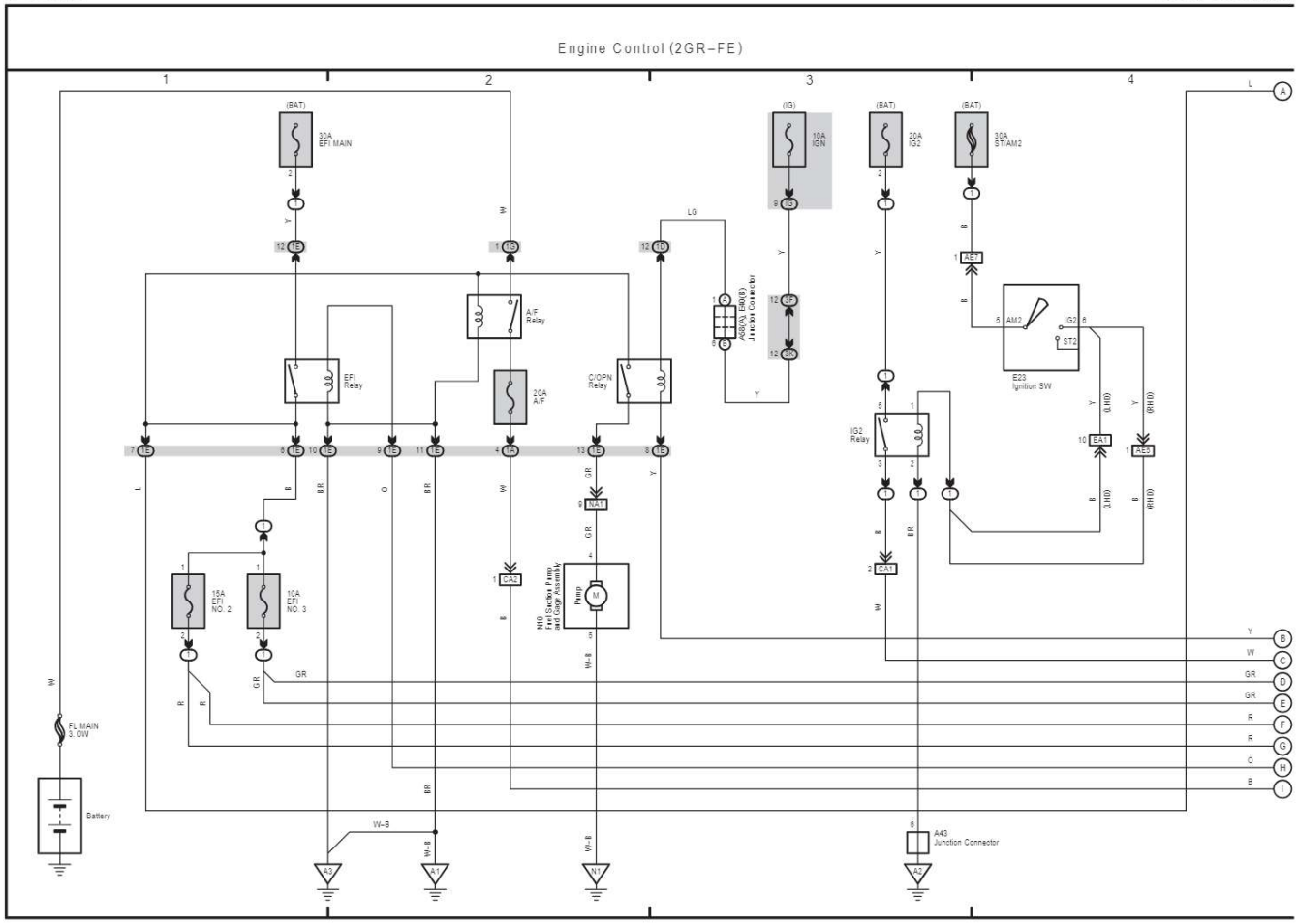
4 CAMRY


Ignition (2GR-FE)
1
2
3
4
(BAT)
30A ST/AM2
(BAT)
20A IG2
AE7
AM2
IG2
ST2
E23
Ignition SW
AE5
(RHD)
AE4
(LHD)
IG2 Relay
A43
Junction Connector
A2
CA3
C16
Motor Fully Ignition (RH)
C40
Motor Fully Ignition (LH)
+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)
IGT5
C38
Ignition Coil (No. 5)
IGT6
C39
Ignition Coil (No. 6)
Engine ECU
<6-15>
C7


Ignition (2AZ-FE)
1
2
3
4
(BAT)
30A ST/AM2
(BAT)
20A IG2
(IG)
15A INJ
E23 Ignition SW
IG2 Relay
A43 Junction Connector
Engine ECU
+B
GND
IGT1
IGF
IGT2
IGT3
IGT4
Ignition Coil (No. 1)
Ignition Coil (No. 2)
Ignition Coil (No. 3)
Ignition Coil (No. 4)

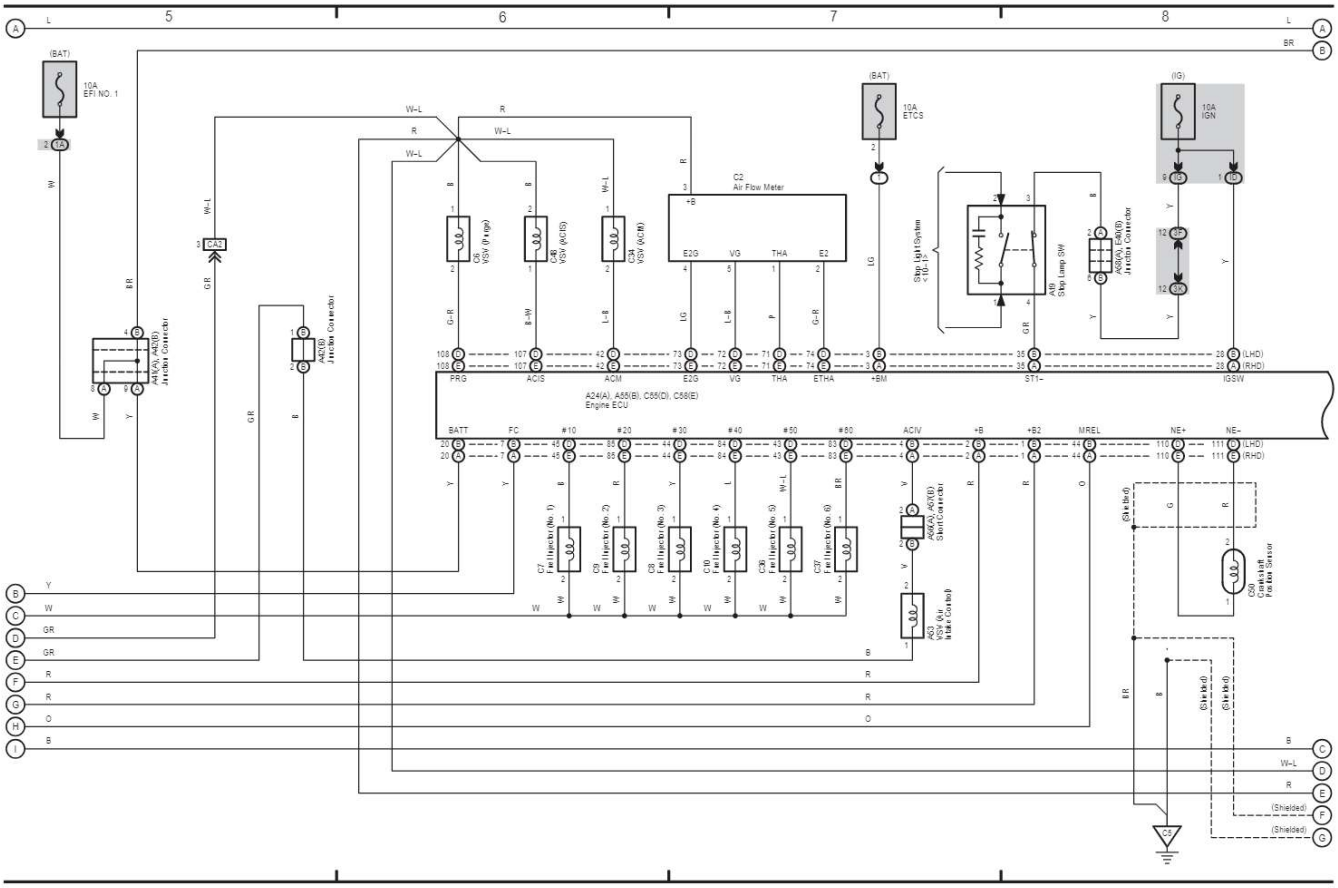
6 CAMRY

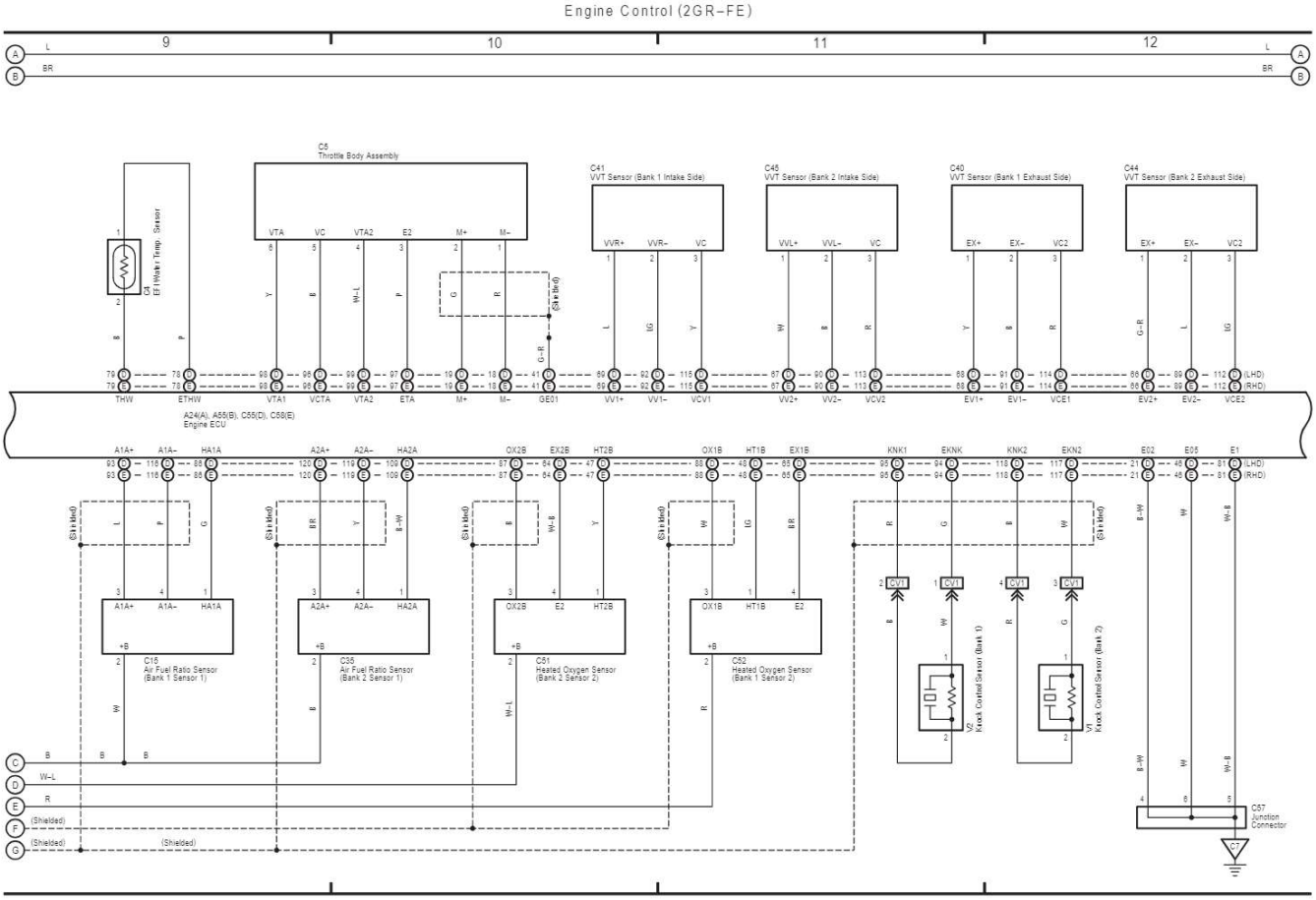
(Cont. next page)



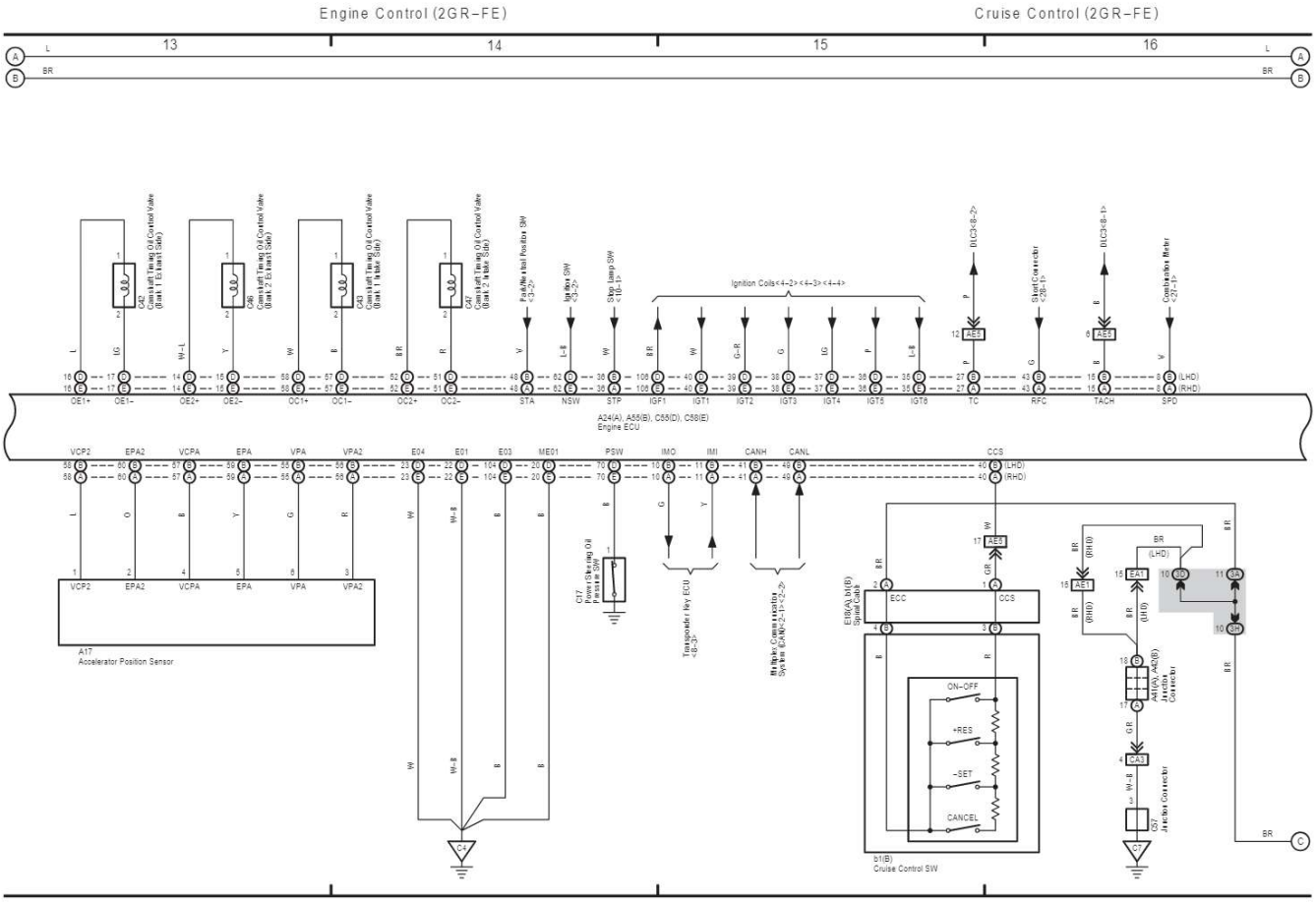
(Cont. next page)

Engine Control (2GR–FE)




Engine Control (2GR–FE)
9
10
11
12
C5
Throttle Body Assembly
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)
C4
EFI Water Temp. Sensor
A24(A), A55(B), C55(D), C58(E)
Engine ECU
C16
Air Fuel Ratio Sensor
(Bank 1 Sensor 1)
C36
Air Fuel Ratio Sensor
(Bank 2 Sensor 1)
C61
Heated Oxygen Sensor
(Bank 2 Sensor 2)
C62
Heated Oxygen Sensor
(Bank 1 Sensor 2)
Knock Control Sensor (Bank 1)
Knock Control Sensor (Bank 2)
C57
Junction Connector
C7
(Shielded)

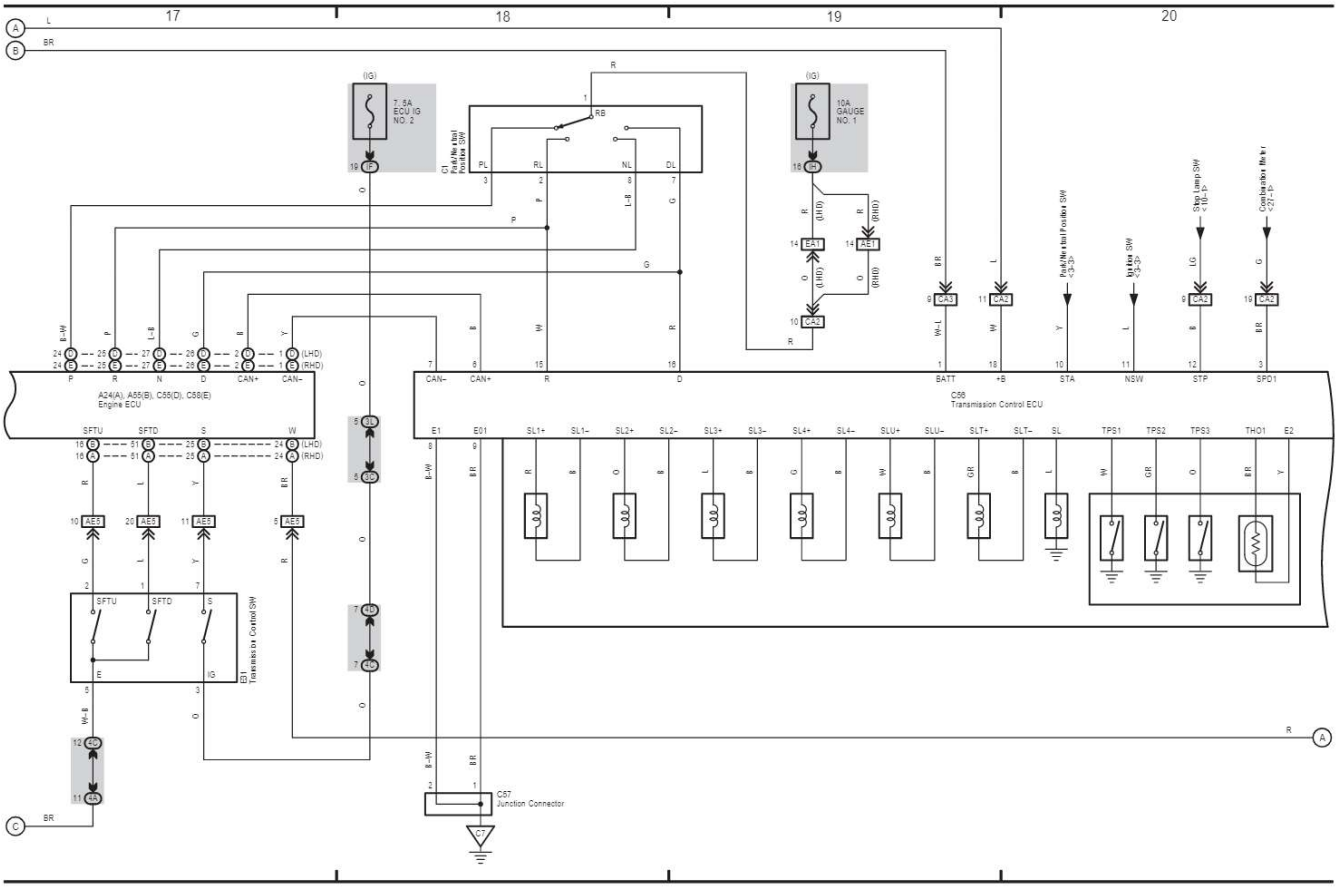
(Cont. next page)

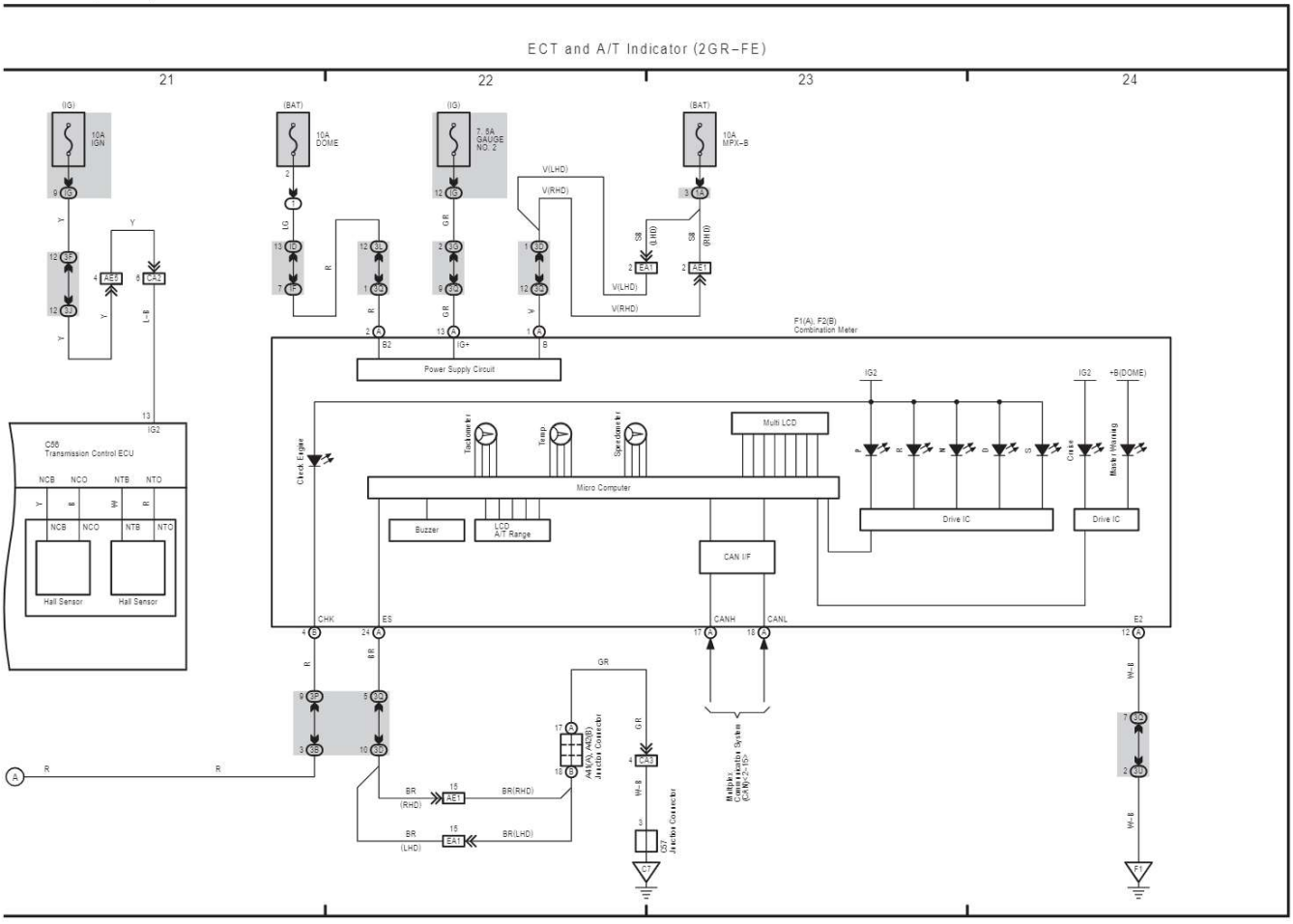


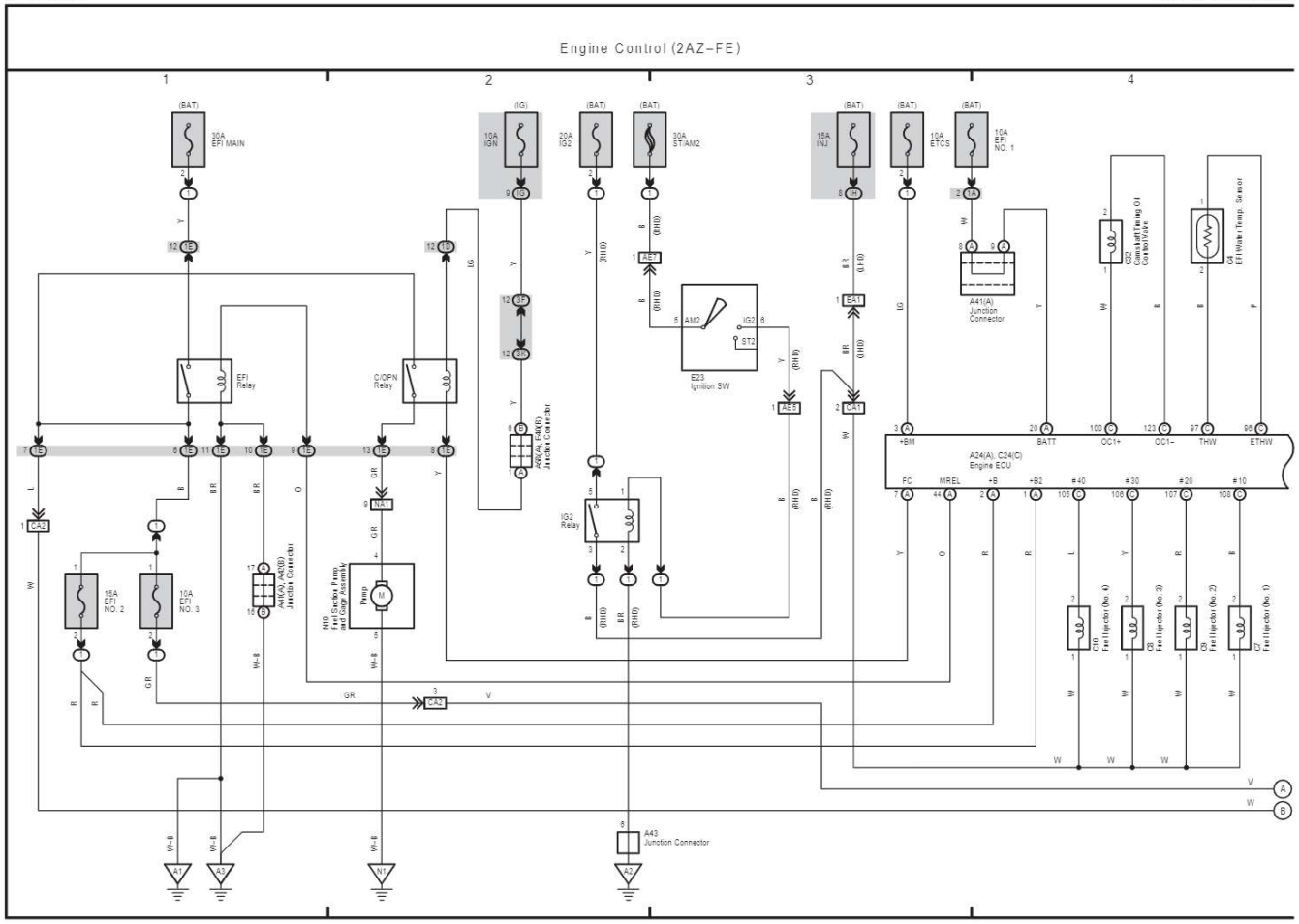
6 CAMRY (Cont' d)

(Cont. next page)

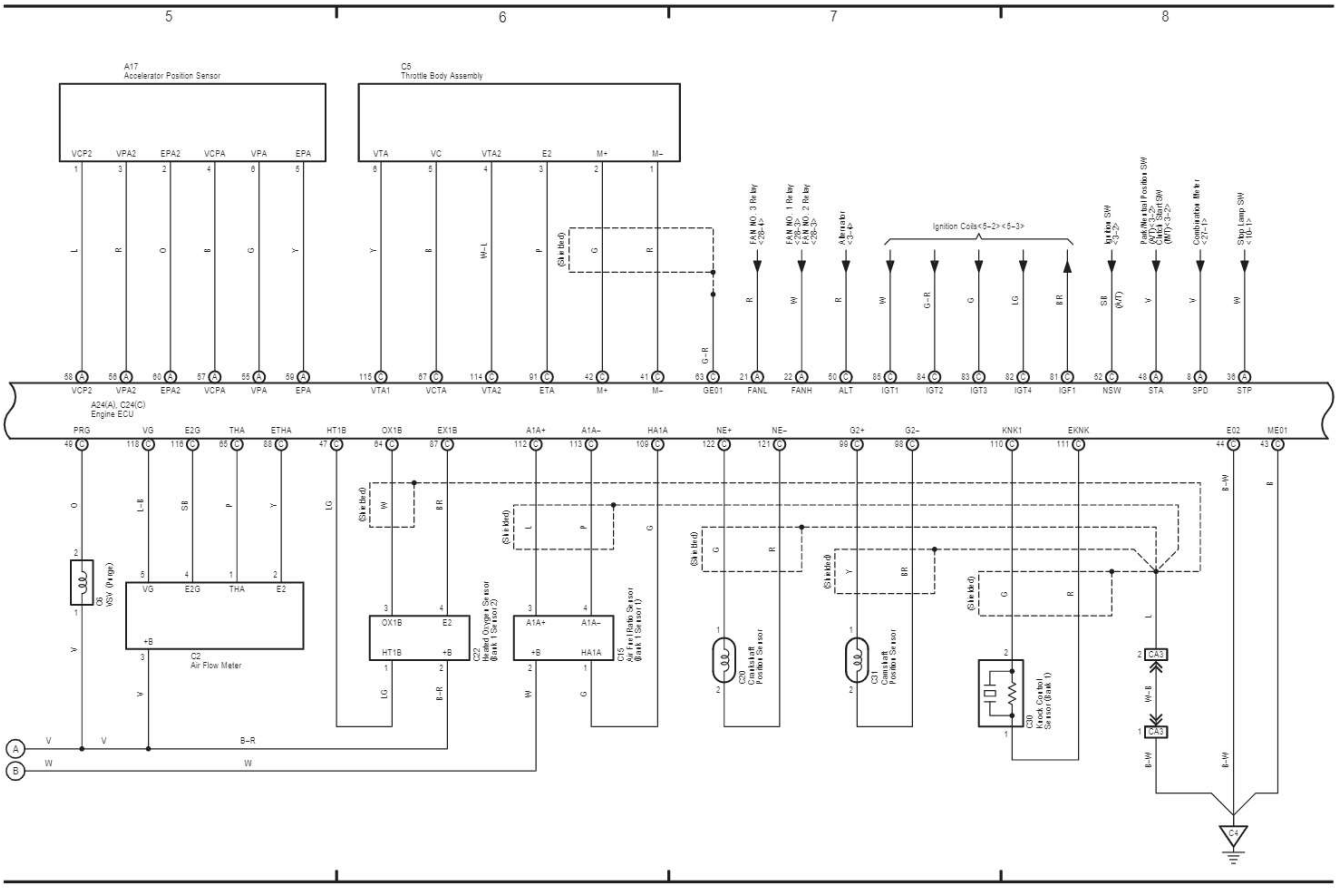
ECT and A/T Indicator (2GR–FE)




ECT and A/T Indicator (2GR-FE)
21
22
23
24
(IG)
10A IGN
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
V(LHD)
V(RHD)
F1(A), F2(B) Combination Meter
Power Supply Circuit
B2
IG+
B
C66 Transmission Control ECU
NCB
NCO
NTB
NTO
Hall Sensor
Hall Sensor
IG2
Check Engine
Tachometer
Temp.
Speedometer
Multi LCD
Micro Computer
Buzzer
LCD A/T Range
CAN I/F
Drive IC
Drive IC
Cruise
Body Warning
+B(DOME)
CHK
ES
CANH
CANL
E2
Multiple Information System (CAN)*2-15*
A4(A), A6(B) Junction Connector
C57 Junction Connector
BR (RHD)
BR(RHD)
BR (LHD)
BR(LHD)

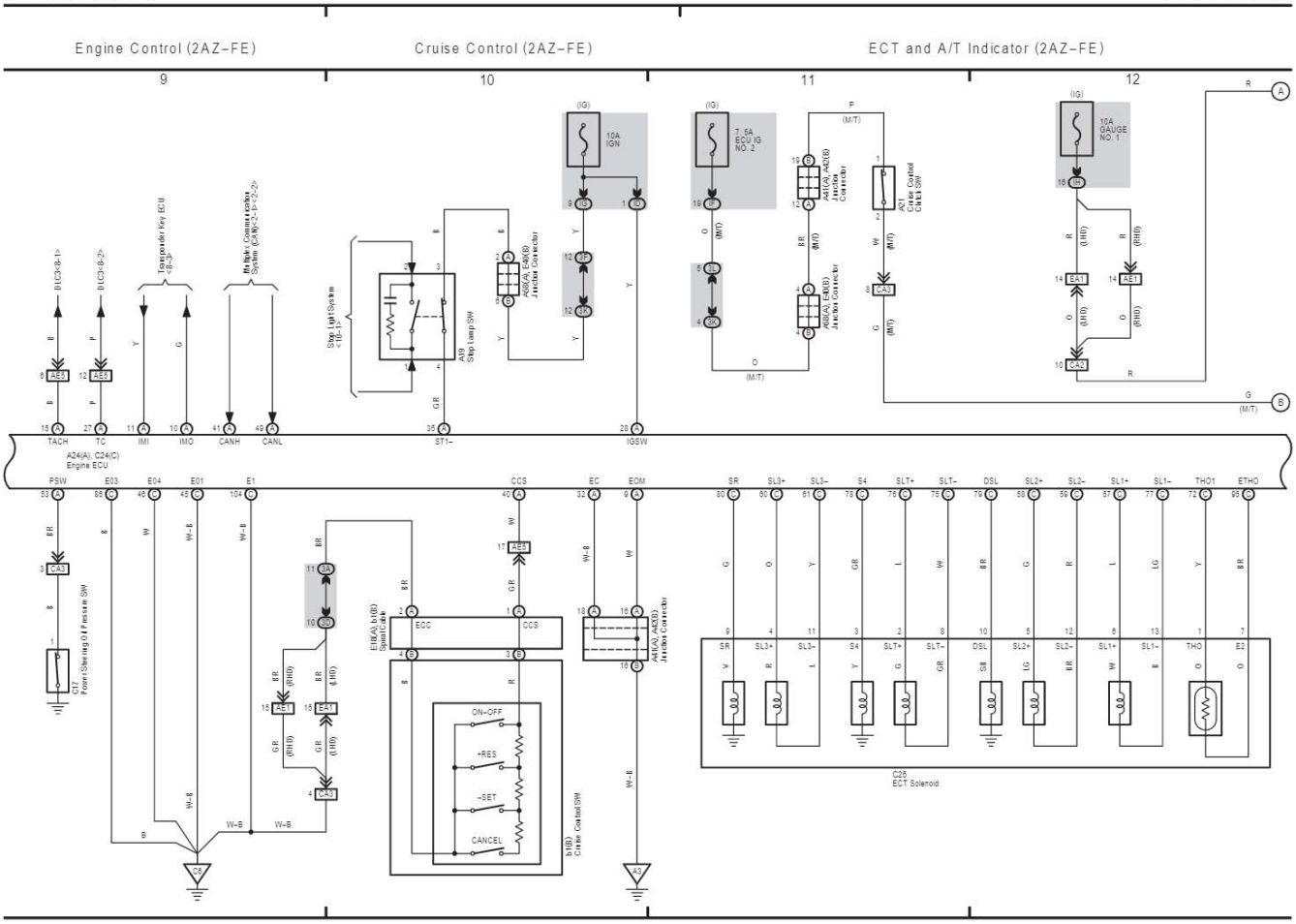

Engine Control (2AZ–FE)
1
2
3
4
(BAT)
30A EFI MAIN
(IG)
10A IGN
20A IG2
30A ST/AM2
15A INJ
10A ETCS
10A EFI NO. 1
EFI Relay
C/OPN Relay
IG2 Relay
E23 Ignition SW
A41(A) Junction Connector
C22 Oil Control Valve
Oil Temp. Sensor
EFI Water Temp. Sensor
A24(A), C24(C) Engine ECU
+BM
BATT
OC1+
OC1–
THW
ETHW
FC
MREL
+B
+B2
#40
#30
#20
#10
16A EFI NO. 2
10A EFI NO. 3
A40(A), A40(B) Junction Connector
H10 Fuel Sender Gauge and Pump Assembly
Pump
C10 Fuel Injector (No. 4)
C9 Fuel Injector (No. 3)
C8 Fuel Injector (No. 2)
C7 Fuel Injector (No. 1)
A43 Junction Connector
A1
A3
N1
A2

Engine Control (2AZ–FE)

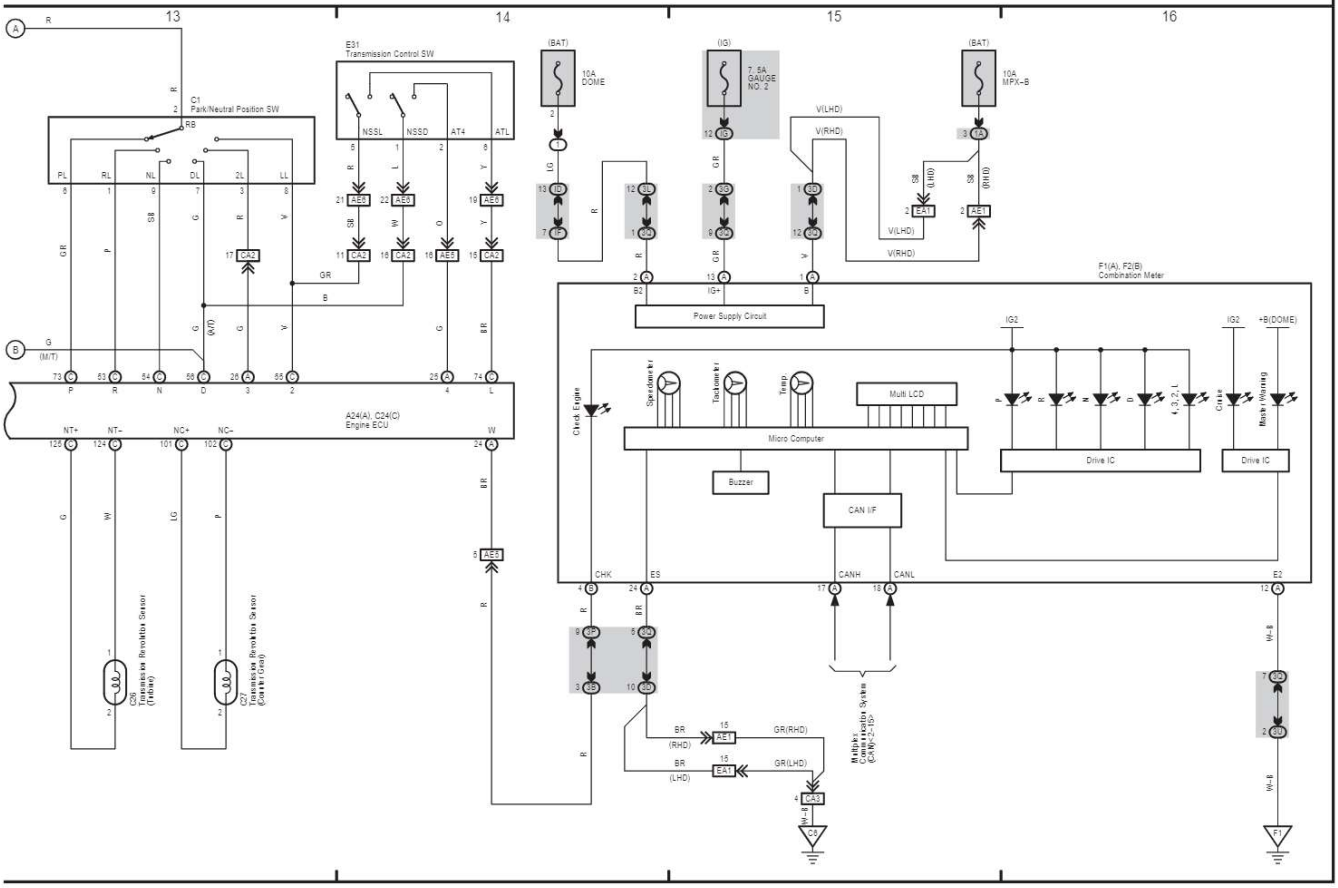


7 CAMRY (Cont' d)

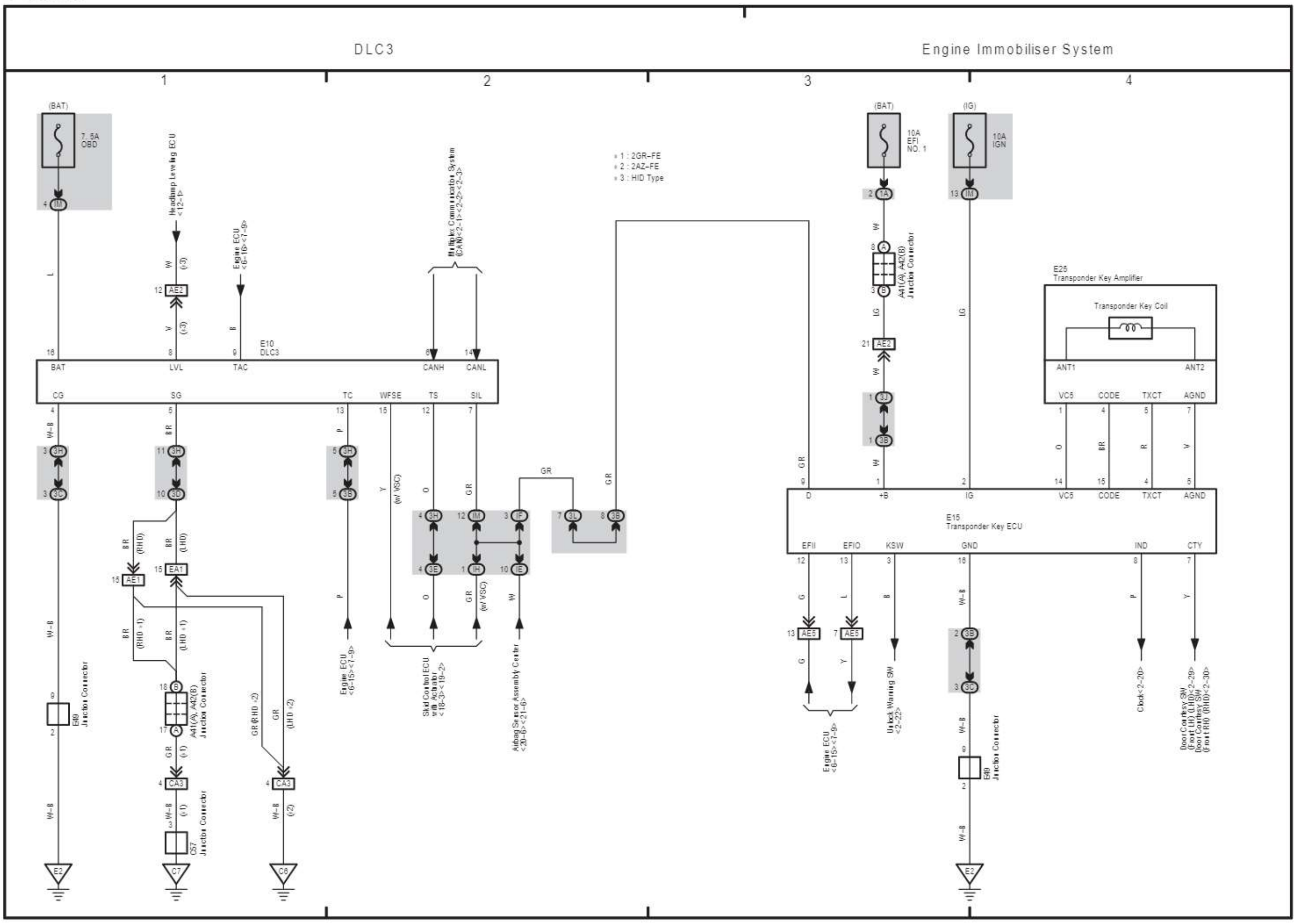
(Cont. next page)

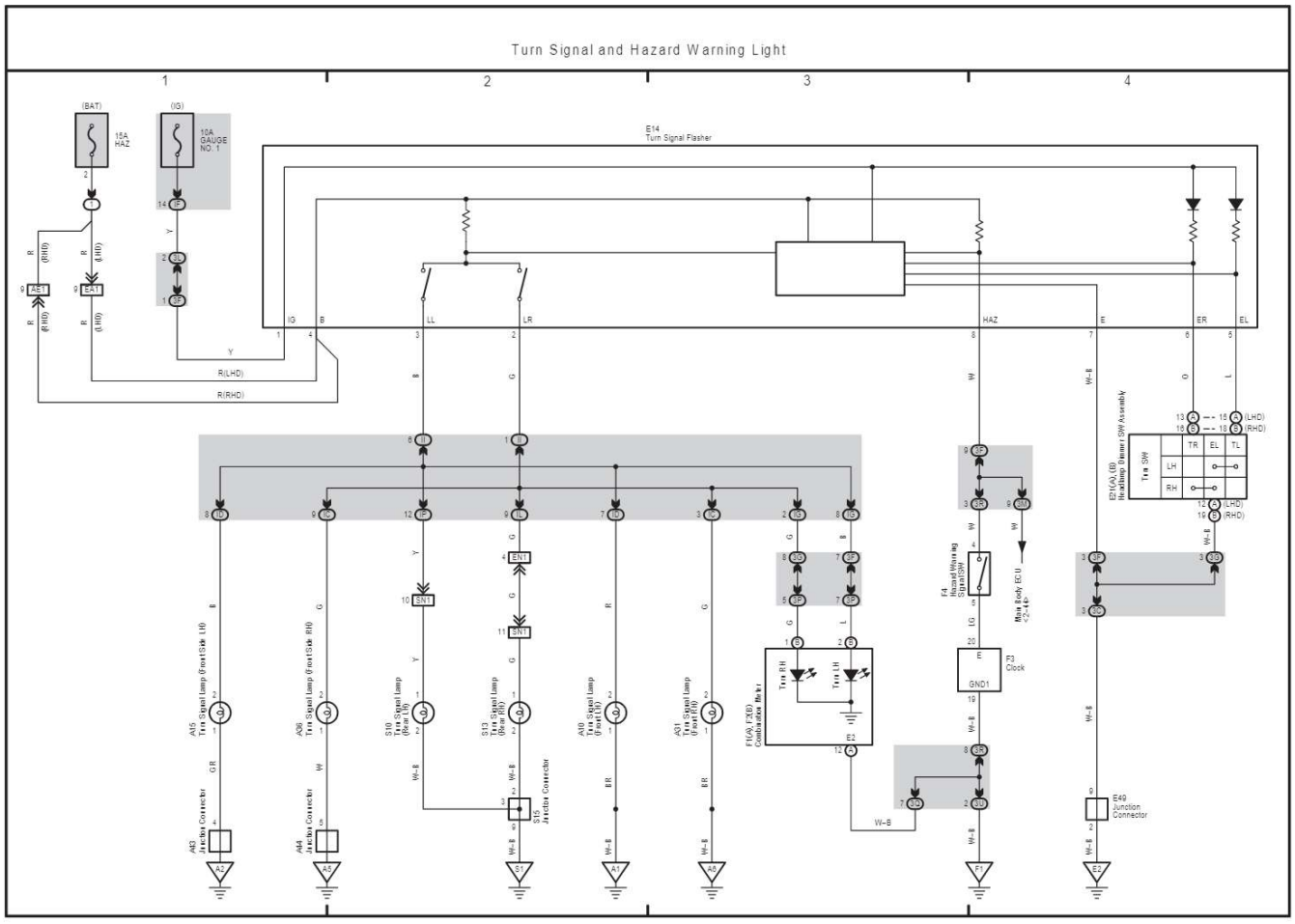


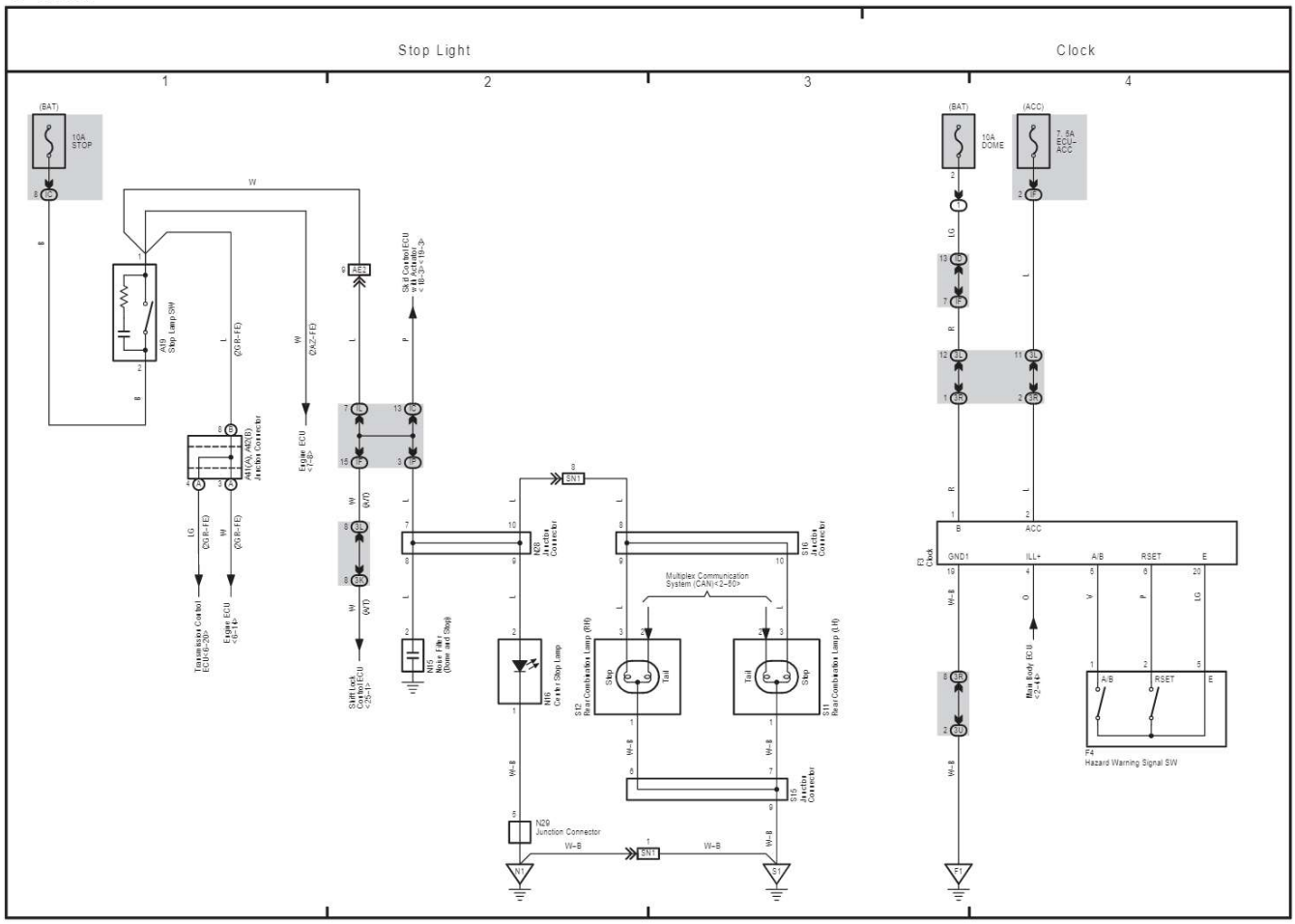
ECT and A/T Indicator (2AZ–FE)

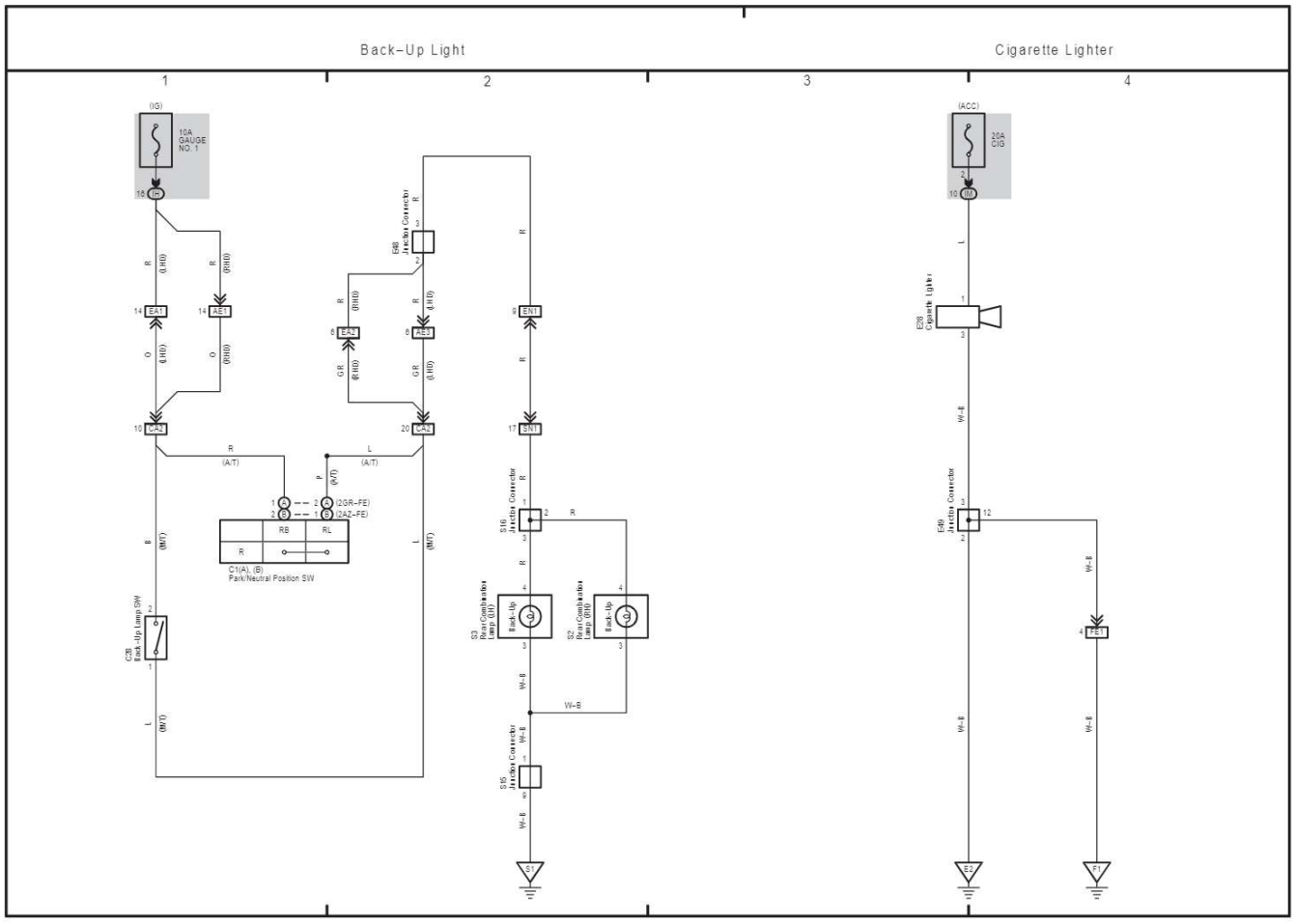


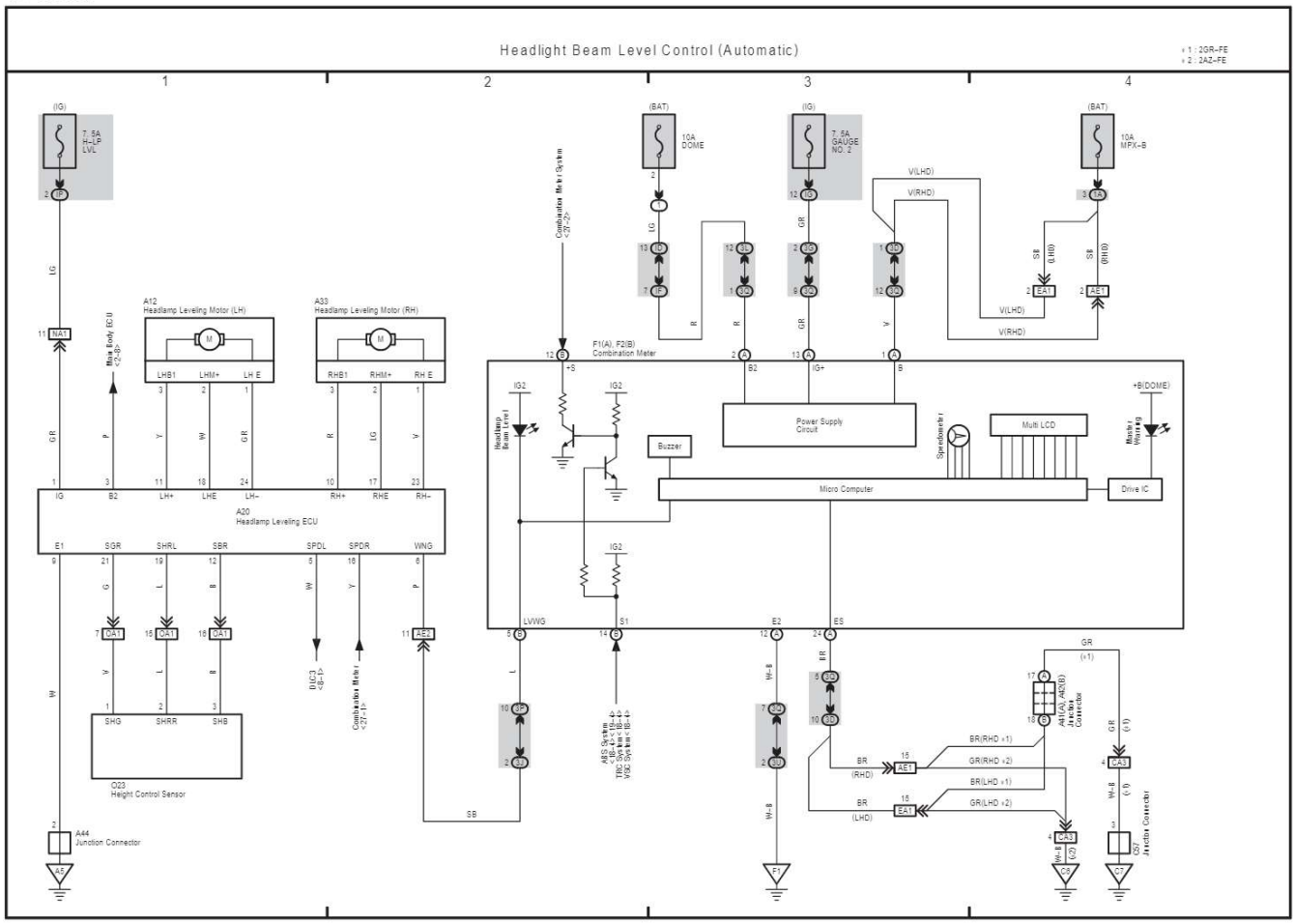
8 CAMRY

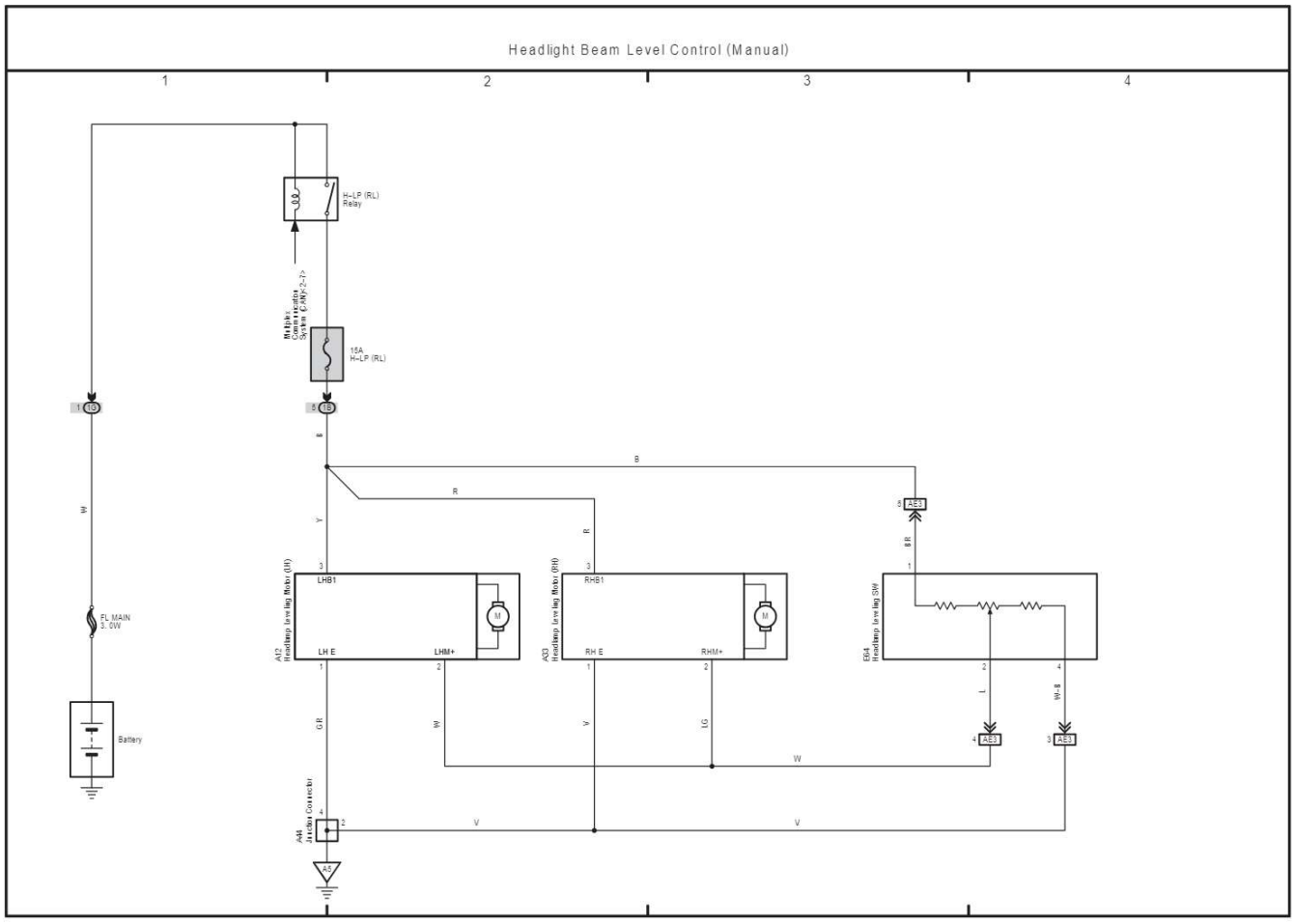

DLC3
Engine Immobiliser System
1
2
3
4
(BAT)
7.5A OBD
(IG)
10A IGN
10A EFI NO. 1
Headlamp Leveling ECU <12-1>
Engine ECU <6-16><7-9>
Multiplex Communication System (CAN) <2-1><2-2><2-3>
∗1 : 2GR-FE
∗2 : 2AZ-FE
∗3 : HID Type
E10 DLC3
BAT
LVL
TAC
CANH
CANL
CG
SG
TC
WFSE
TS
SIL
(w/ VSC)
(RHD)
(LHD)
Engine ECU <6-15><7-9>
Skid Control ECU with Actuator <18-3><19-2>
Airbag Sensor Assembly Center <20-6><21-6>
E69 Junction Connector
A41(A), A42(B) Junction Connector
C57 Junction Connector
E25 Transponder Key Amplifier
Transponder Key Coil
ANT1
ANT2
VC5
CODE
TXCT
AGND
E15 Transponder Key ECU
D
+B
IG
EFII
EFIO
KSW
GND
IND
CTY
Engine ECU <6-15><7-9>
Unlock Warning SW <2-22>
Clock <2-20>
Door Courtesy SW (Front LH) (LHD) <2-29>
Door Courtesy SW (Front RH) (RHD) <2-30>
E2
C7
C6


Turn Signal and Hazard Warning Light
1
2
3
4
(BAT)
(IG)
15A HAZ
10A GAUGE NO. 1
E14 Turn Signal Flasher
IG
B
LL
LR
HAZ
ER
EL
R(LHD)
R(RHD)
E21(A),(B) Headlamp Dimmer SW Assembly
Tra SW
TR
EL
TL
LH
RH
(LHD)
(RHD)
F4 Hazard Warning Signal SW
Main Body ECU
F3 Clock
GND1
Tra RH
Tra LH
FL(A),FR(B) Combination Meter
E2
E49 Junction Connector
A15 Turn Signal Lamp (Front Side LH)
A8 Turn Signal Lamp (Front Side RH)
S10 Turn Signal Lamp (Rear LH)
S13 Turn Signal Lamp (Rear RH)
A10 Turn Signal Lamp (Front LH)
A31 Turn Signal Lamp (Front RH)
A43 Junction Connector
A44 Junction Connector
S15 Junction Connector
W-B

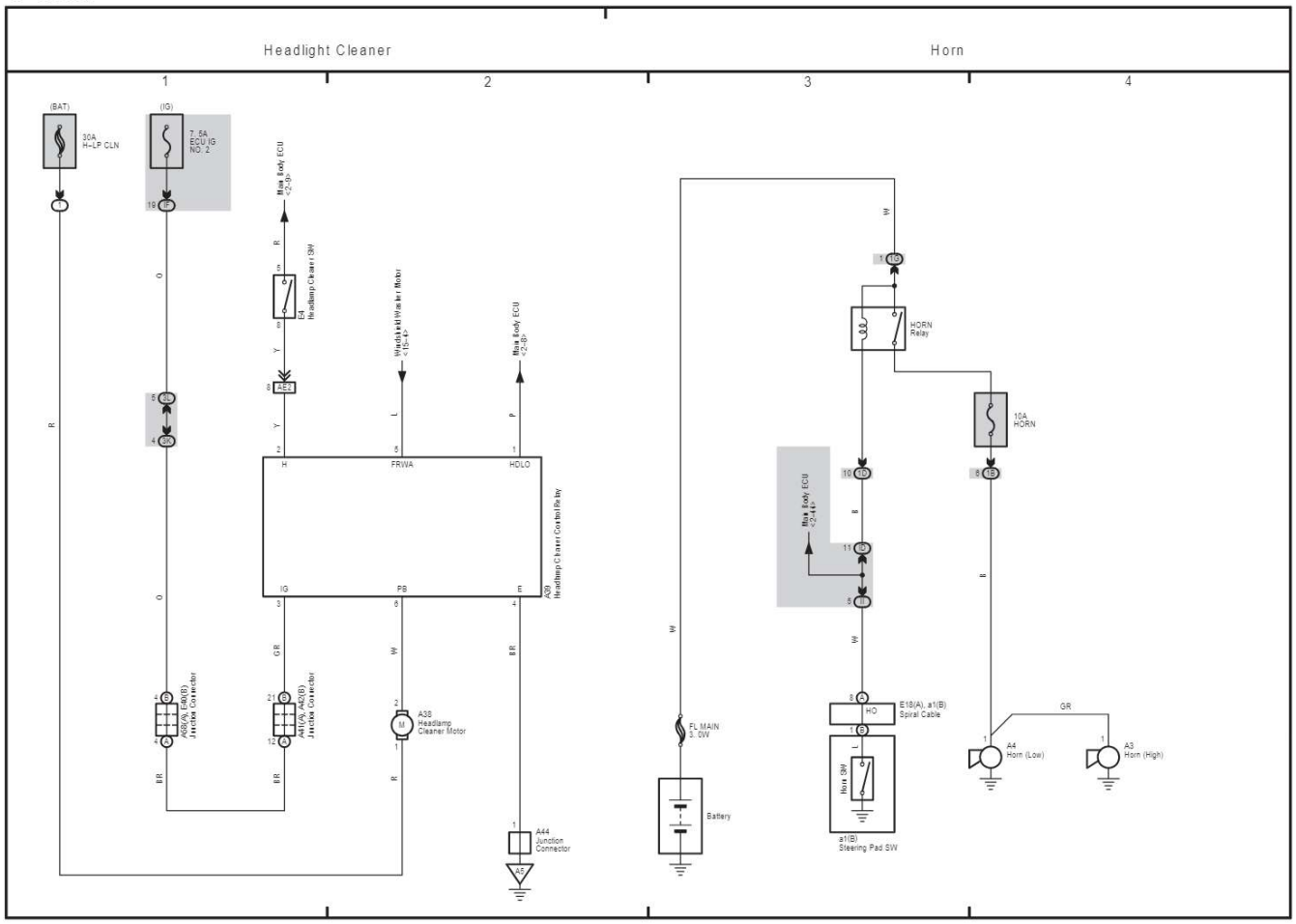

Stop Light
Clock
1
2
3
4
(BAT)
10A STOP
(ACC)
7.5A ECU-ACC
10A DOME
Stop Lamp SW
A/T(A), A/D(B) Junction Connector
Transmission Control ECU <6-20>
Engine ECU <6-14>
Engine ECU <1-8>
Shift Control ECU <A/T> <18-3>, <19-4>
Shift Lock Control ECU <25-1>
N28 Junction Connector
N16 Center Stop Lamp
N29 Junction Connector
Multiplex Communication System (CAN) <2-60>
S12 Rear Combination Lamp (RH)
S11 Rear Combination Lamp (LH)
S16 Junction Connector
S15 Junction Connector
Noise Filter (Rear and Stop)
Body ECU <5-14>
F3 Clock
F4 Hazard Warning Signal SW
Stop
Tail
GND1
ILL+
A/B
RSET
ACC


Back–Up Light
Cigarette Lighter
1
2
3
4
(IG)
10A GAUGE NO.1
(ACC)
20A CIG
Back–Up Lamp SW
Park/Neutral Position SW
(2GR–FE)
(2AZ–FE)
Cigarette Lighter
Junction Connector
Rear Combination Lamp (LH)
Rear Combination Lamp (RH)
Back–Up
W–B
R
L
P
O
GR
(A/T)
(M/T)
(LHD)
(RHD)

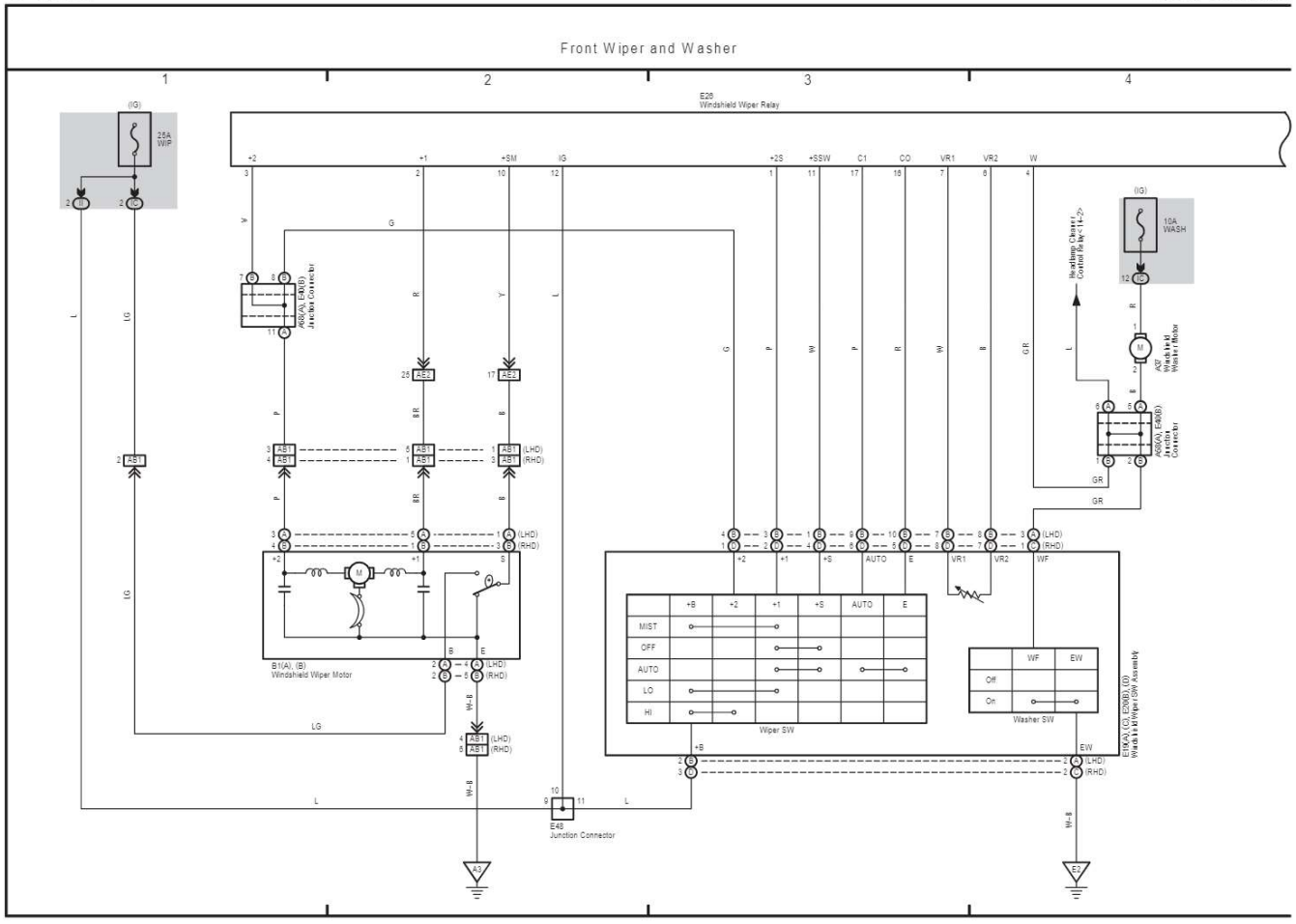

Headlight Beam Level Control (Automatic)
* 1 : 2GR-FE
* 2 : 2AZ-FE
1
2
3
4
(IG)
7.5A H-LP LVL
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
Combination Meter System <21-22>
V(LHD)
V(RHD)
A12 Headlamp Leveling Motor (LH)
A33 Headlamp Leveling Motor (RH)
LHB1
LHM+
LH E
RHB1
RHM+
RH E
Main Body ECU <2-2>
F1(A), F2(B) Combination Meter
+S
B2
IG+
B
IG2
Headlamp Beam Level
Power Supply Circuit
Buzzer
Speedometer
Multi LCD
Master Warning
+B(DOME)
Micro Computer
Drive IC
A20 Headlamp Leveling ECU
IG
B2
LH+
LHE
LH-
RH+
RHE
RH-
E1
SGR
SHRL
SBR
SPDL
SPDR
WNG
LVWG
S1
E2
ES
SHG
SHRR
SHB
O23 Height Control Sensor
D(C3) <2F-1>
Combination Meter <21-1>
ABS System <1B-1>, <1B-2>
TRC System <1B-3>, <1B-4>
VSC System <1B-3>, <1B-4>
SB
A44 Junction Connector
A5
F1
A41(A), A42(B) Junction Connector
BR(RHD +1)
GR(RHD +2)
BR(LHD +1)
GR(LHD +2)
BR (RHD)
BR (LHD)
GR (+1)
GR (-)
W-B (+)
W-B (-)
C2 Junction Connector
C6
C7

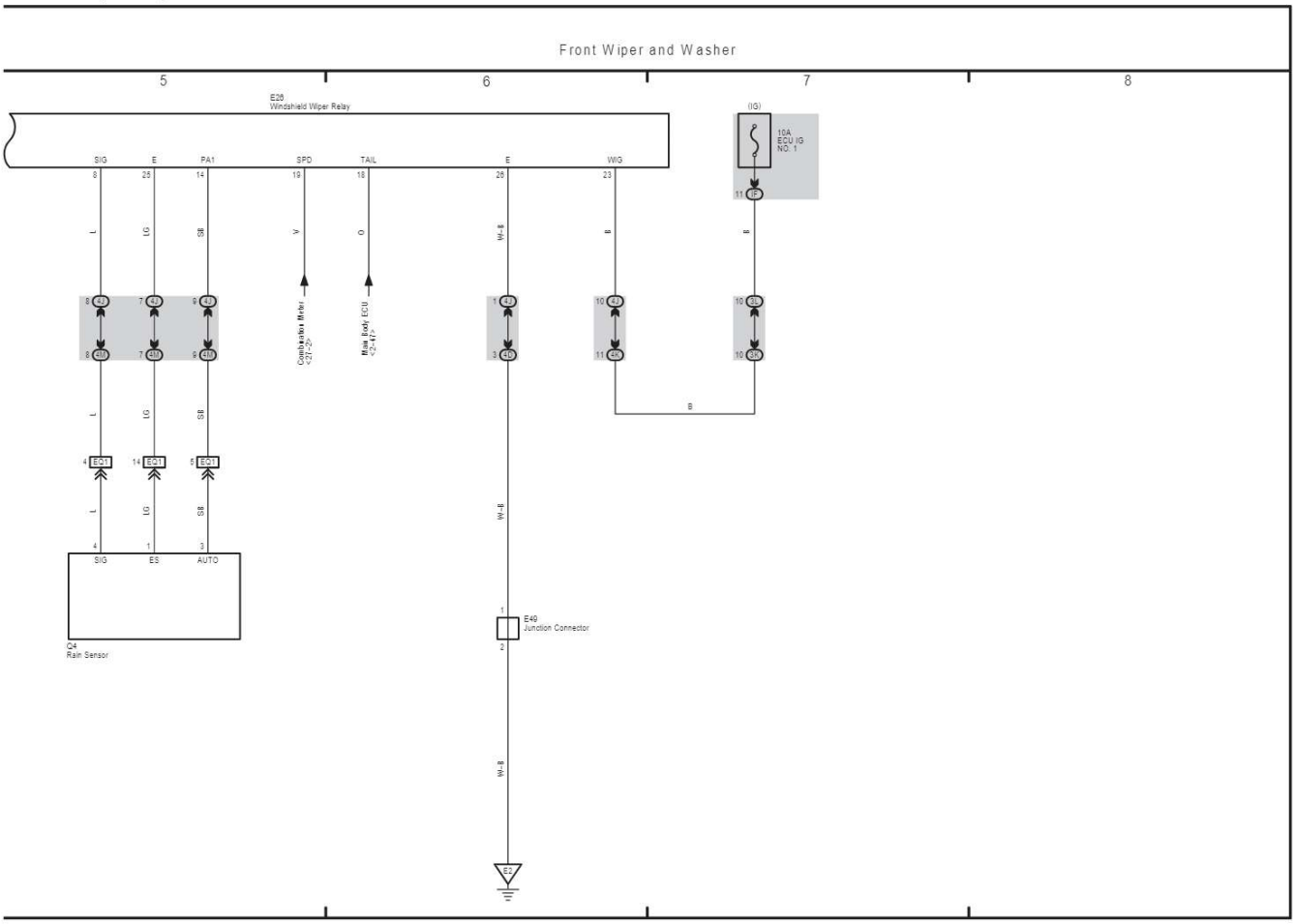

Headlight Beam Level Control (Manual)
1
2
3
4
H-LP (RL) Relay
15A H-LP (RL)
Battery
FL MAIN 3.0W
LHB1
RHB1
LH E
LHM+
RH E
RHM+
Headlamp Leveling Motor (LH)
Headlamp Leveling Motor (RH)
Headlamp Leveling SW
Junction Connector
B
W
Y
R
G-R
V
LG
L
W-B
BR

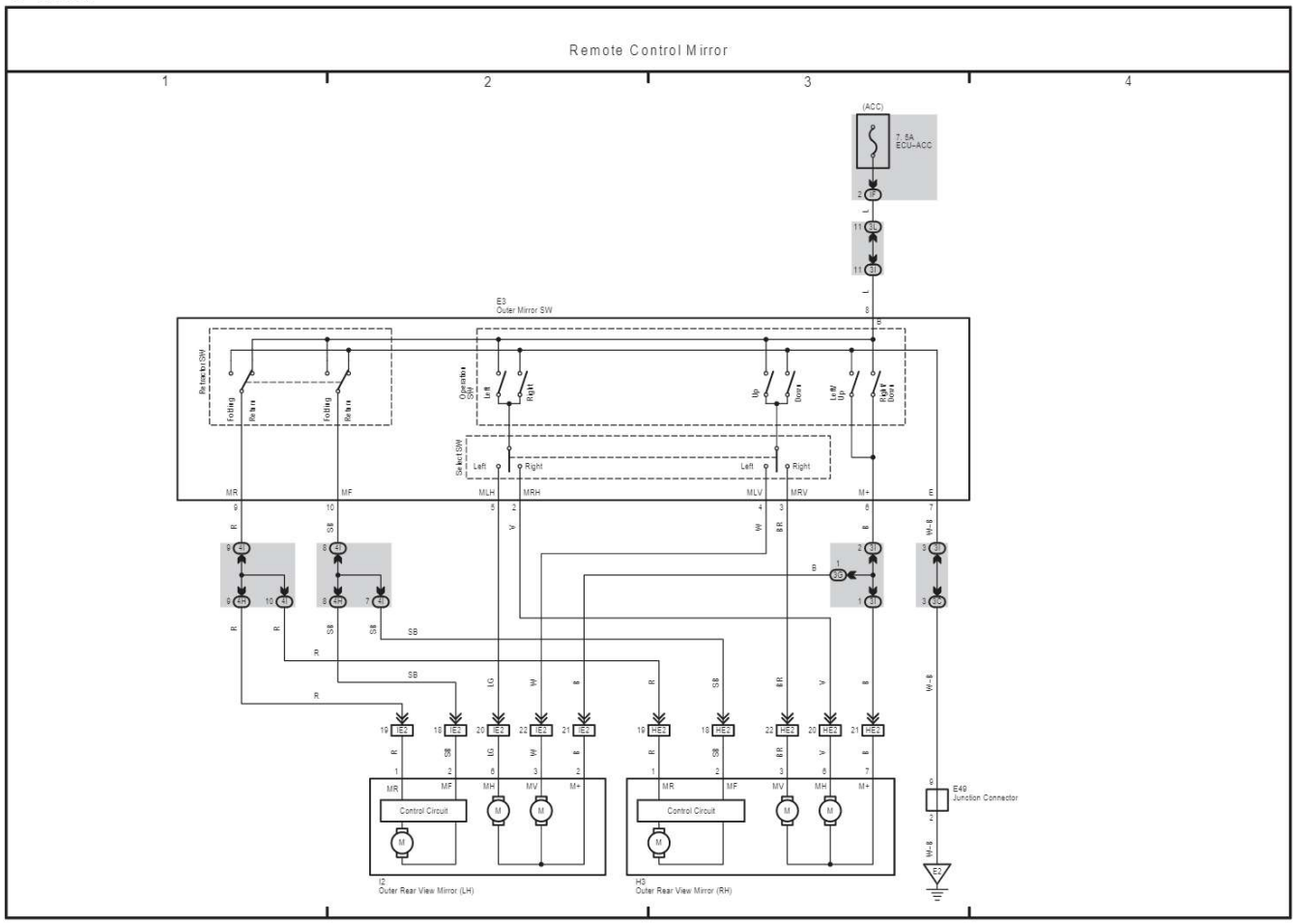
14 CAMRY

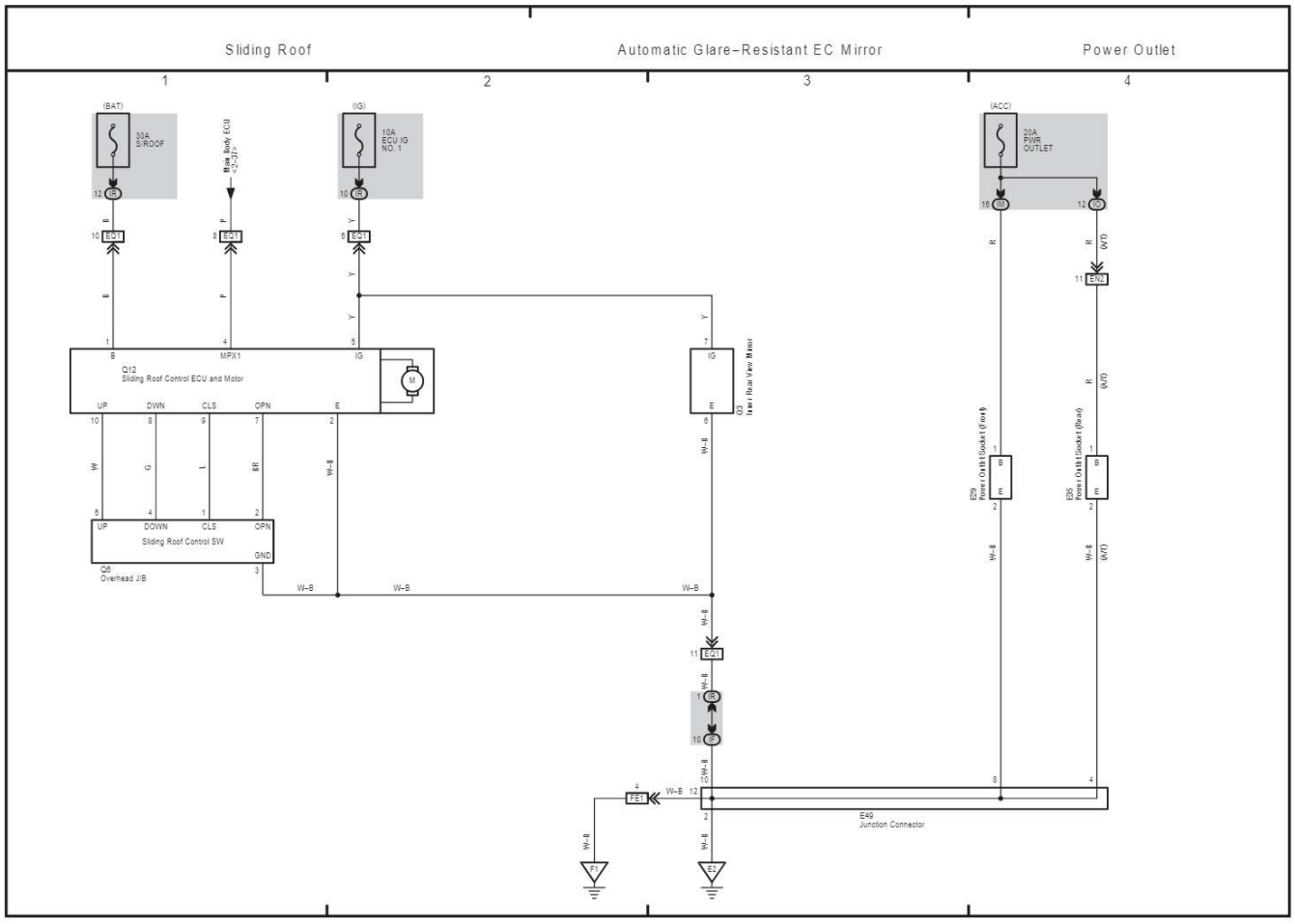

Headlight Cleaner
Horn
1
2
3
4
(BAT)
(IG)
30A
H-LP CLN
7.5A
ECU-IG
NO. 2
Main Body ECU
<2.3>
EH
Headlamp Cleaner SW
Windshield Washer Motor
<15-4>
Main Body ECU
<2.5>
A09
Headlamp Cleaner Control Relay
FRWA
HDLO
IG
PB
A38
Headlamp
Cleaner Motor
A68(A), A69(B)
Junction Connector
A81(A), A82(B)
Junction Connector
A44
Junction
Connector
FL MAIN
3.0W
Battery
HORN
Relay
10A
HORN
Main Body ECU
<2.4>
E18(A), a1(B)
Spiral Cable
Horn SW
a1(B)
Steering Pad SW
A4
Horn (Low)
A3
Horn (High)

(Cont. next page)



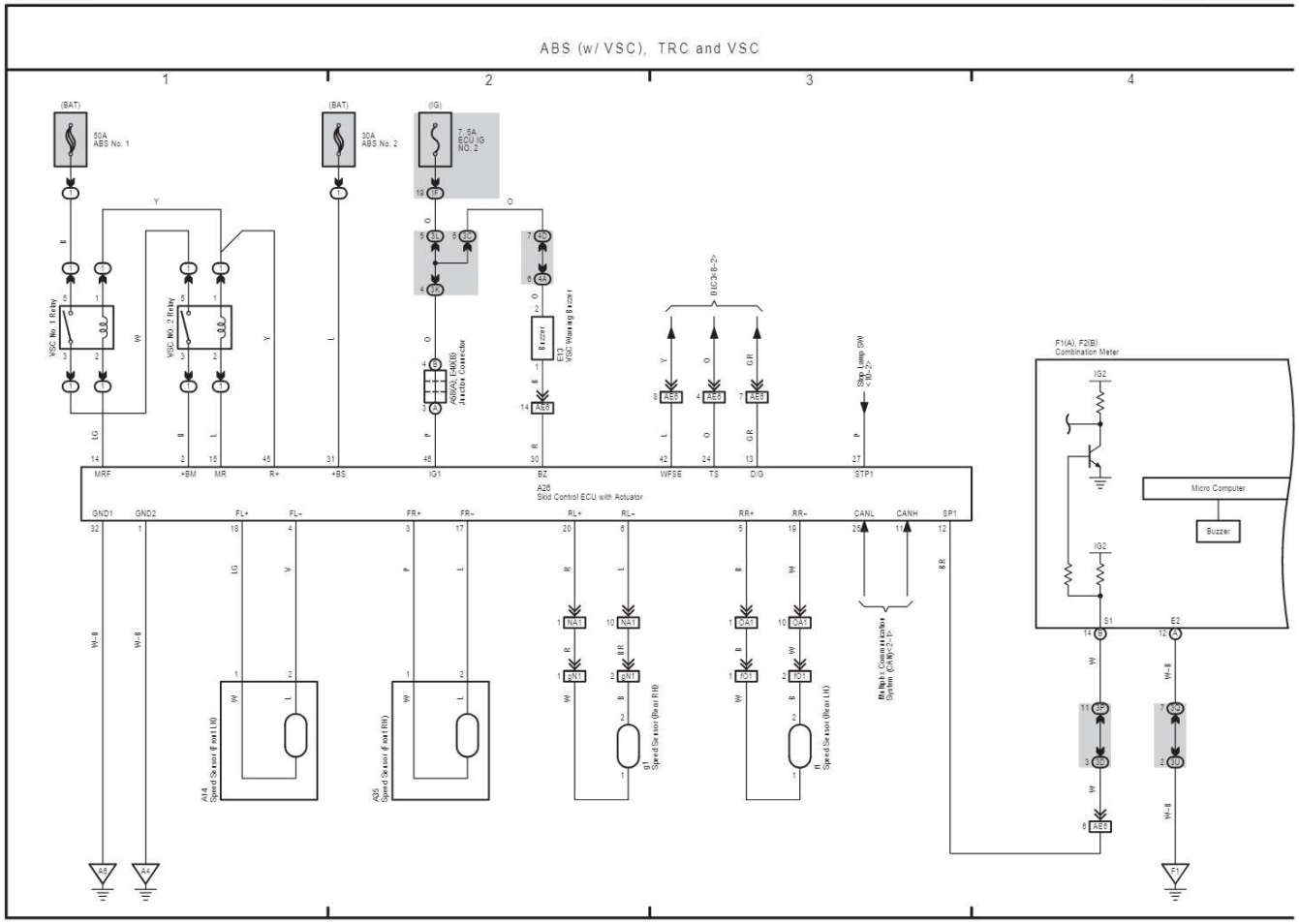

Front Wiper and Washer
5
6
7
8
E26
Windshield Wiper Relay
SIG
E
PA1
SPD
TAIL
E
WIG
(IG)
10A
ECU IG
NO. 1
Combination Meter
<21-2>
Main Body ECU
<2-1>
C4
Rain Sensor
E49
Junction Connector
E7

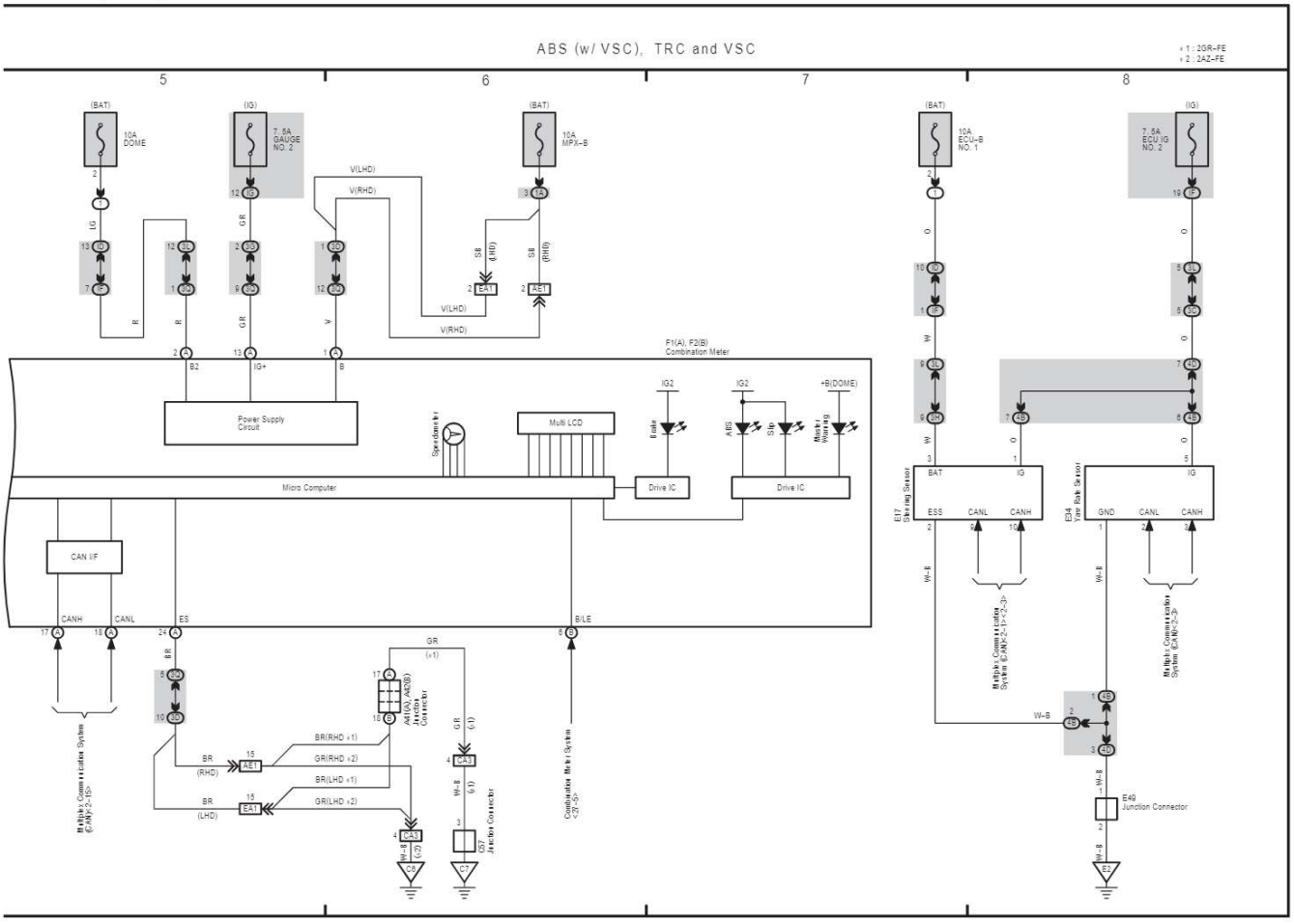

Remote Control Mirror
1
2
3
4
(ACC)
7.5A
ECU-ACC
E3
Outer Mirror SW
Retract SW
Folding
Return
Operation SW
Left
Right
Up
Down
Left/ Up
Right/ Down
Select SW
Left
Right
MR
MF
MLH
MRH
MLV
MRV
M+
E
E41
E42
E43
E44
E45
E46
E47
E48
E49
Junction Connector
E2
I2
Outer Rear View Mirror (LH)
H2
Outer Rear View Mirror (RH)
Control Circuit
M


Sliding Roof
Automatic Glare-Resistant EC Mirror
Power Outlet
1
2
3
4
(BAT)
30A S/ROOF
Main Body ECU <2-3J>
(IG)
10A ECU IG NO. 1
(ACC)
20A PWR OUTLET
Q12
Sliding Roof Control ECU and Motor
UP
DWN
CLS
OPN
E
MPX1
IG
Q6
Overhead J/B
Sliding Roof Control SW
GND
Q3
Inner Rear View Mirror
E49
Junction Connector
E2n
Power Outlet Socket (Front)
E2s
Power Outlet Socket (Rear)

18 CAMRY

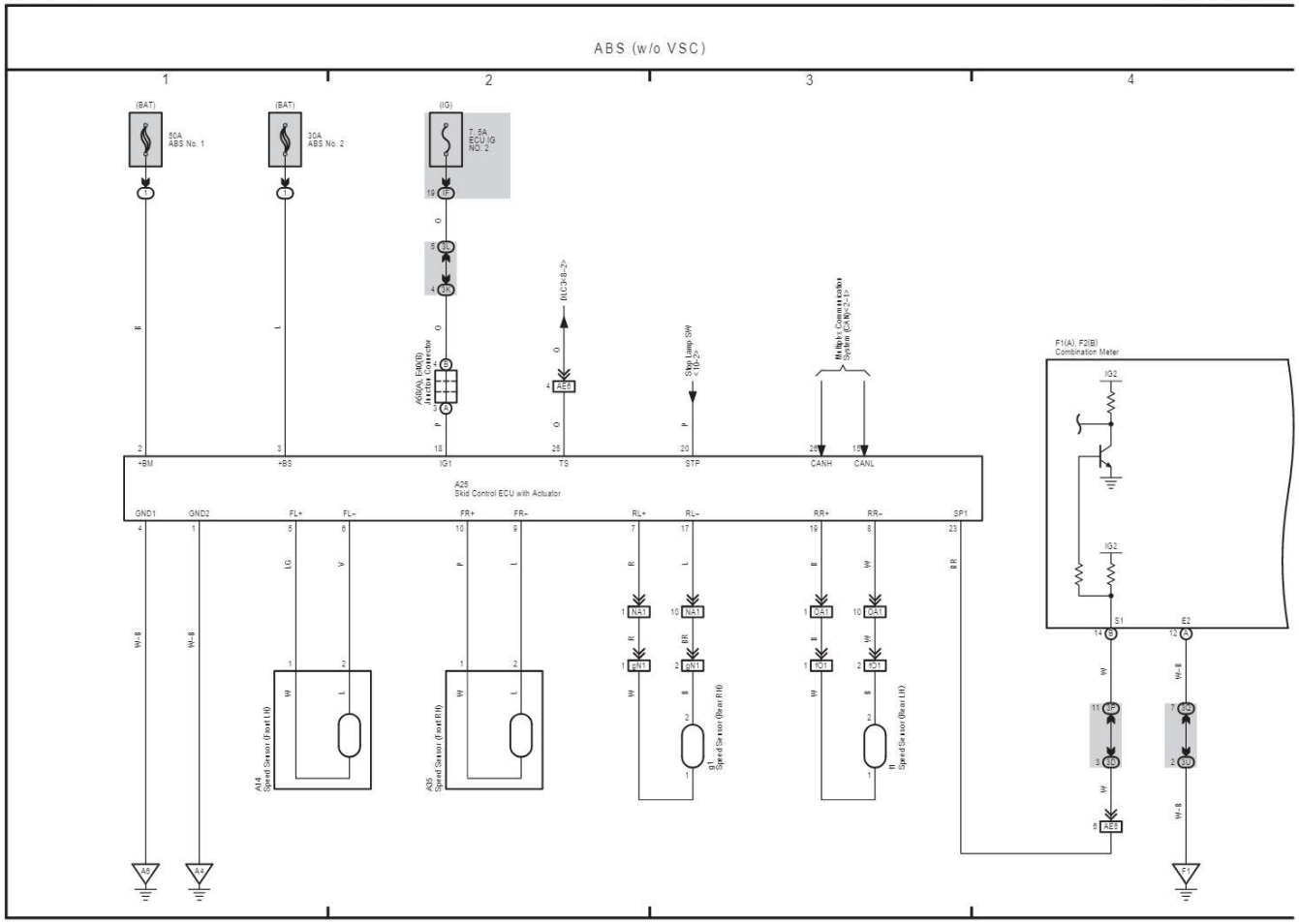
(Cont. next page)

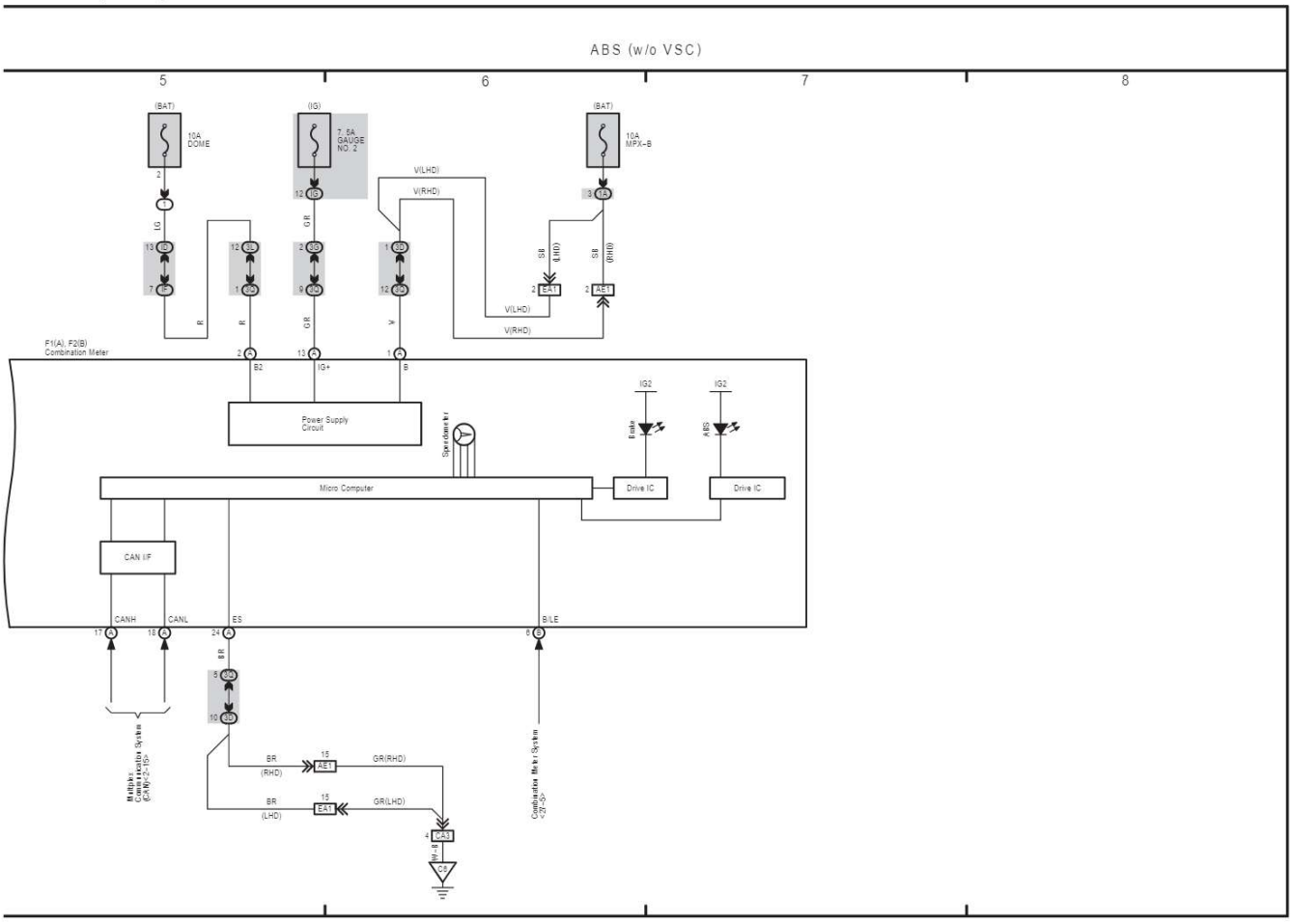



ABS (w/ VSC), TRC and VSC
*1 : 2GR-FE
*2 : 2AZ-FE
5
6
7
8
(BAT)
10A DOME
(IG)
7.5A GAUGE NO. 2
(BAT)
10A MPX-B
V(LHD)
V(RHD)
S8 (LHD)
S8 (RHD)
EA1
AE1
F1(A), F2(B) Combination Meter
Power Supply Circuit
Micro Computer
Speedometer
Multi LCD
Brake
ABS
Slip
Master Warning
IG2
+B(DOME)
Drive IC
CAN I/F
CANH
CANL
ES
B/LE
A41(A), A42(B) Junction Connector
BR(RHD *1)
GR(RHD *2)
BR(LHD *1)
GR(LHD *2)
BR (RHD)
BR (LHD)
GR (*1)
W-B (*2)
CA3
CA4
C6
C7
J57 Junction Connector
Combination Meter System (CAN)
Multiplex Communication System (CAN)-2-1
Multiplex Communication System (CAN)-2-2
Multiplex Communication System (CAN)-2-3
(BAT)
10A ECU-B NO. 1
(IG)
7.5A ECU-IG NO. 2
E17 Steering Sensor
BAT
IG
ESS
CANL
CANH
E34 Ignition Switch
GND
E49 Junction Connector
E2

19 CAMRY

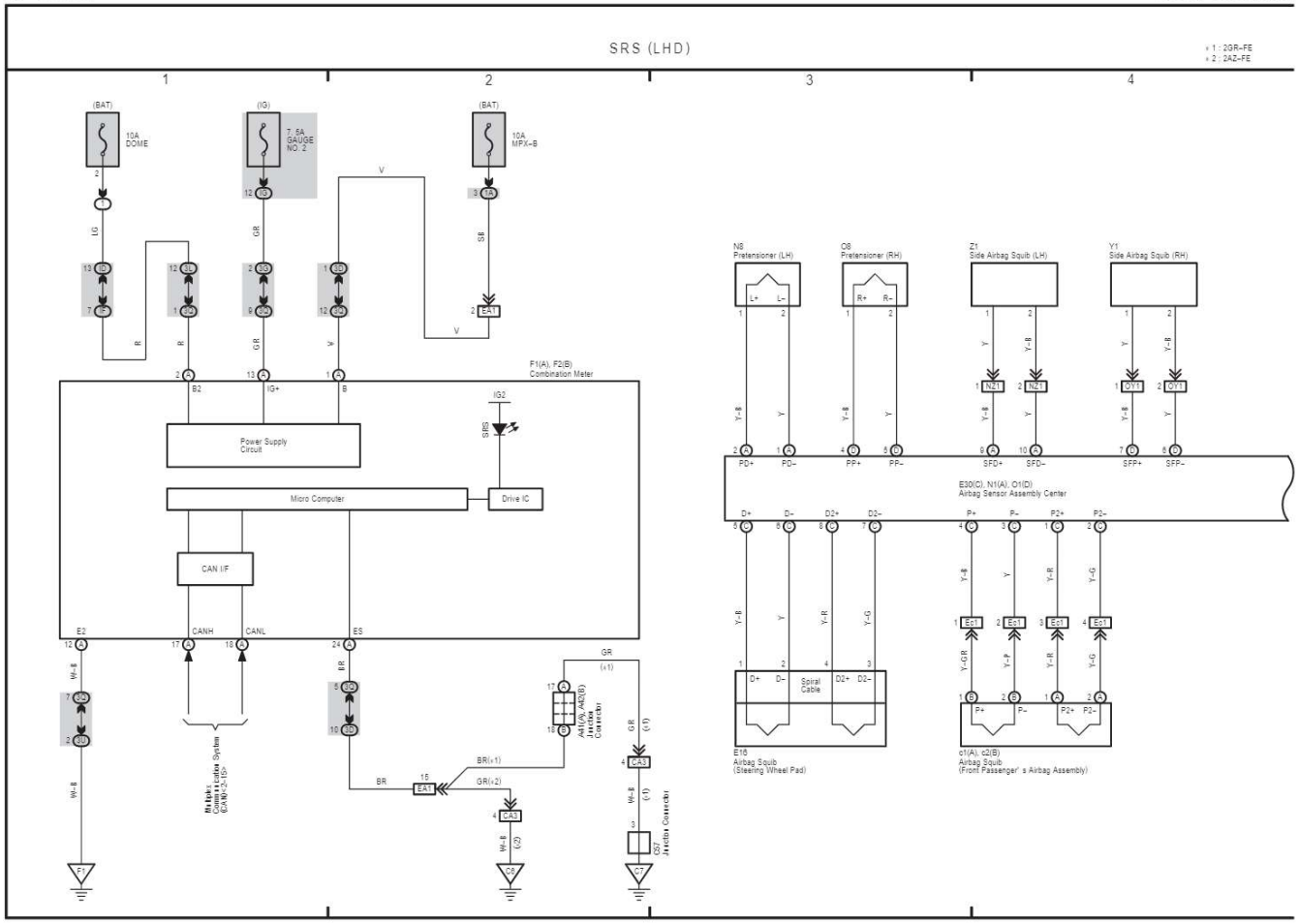
(Cont. next page)

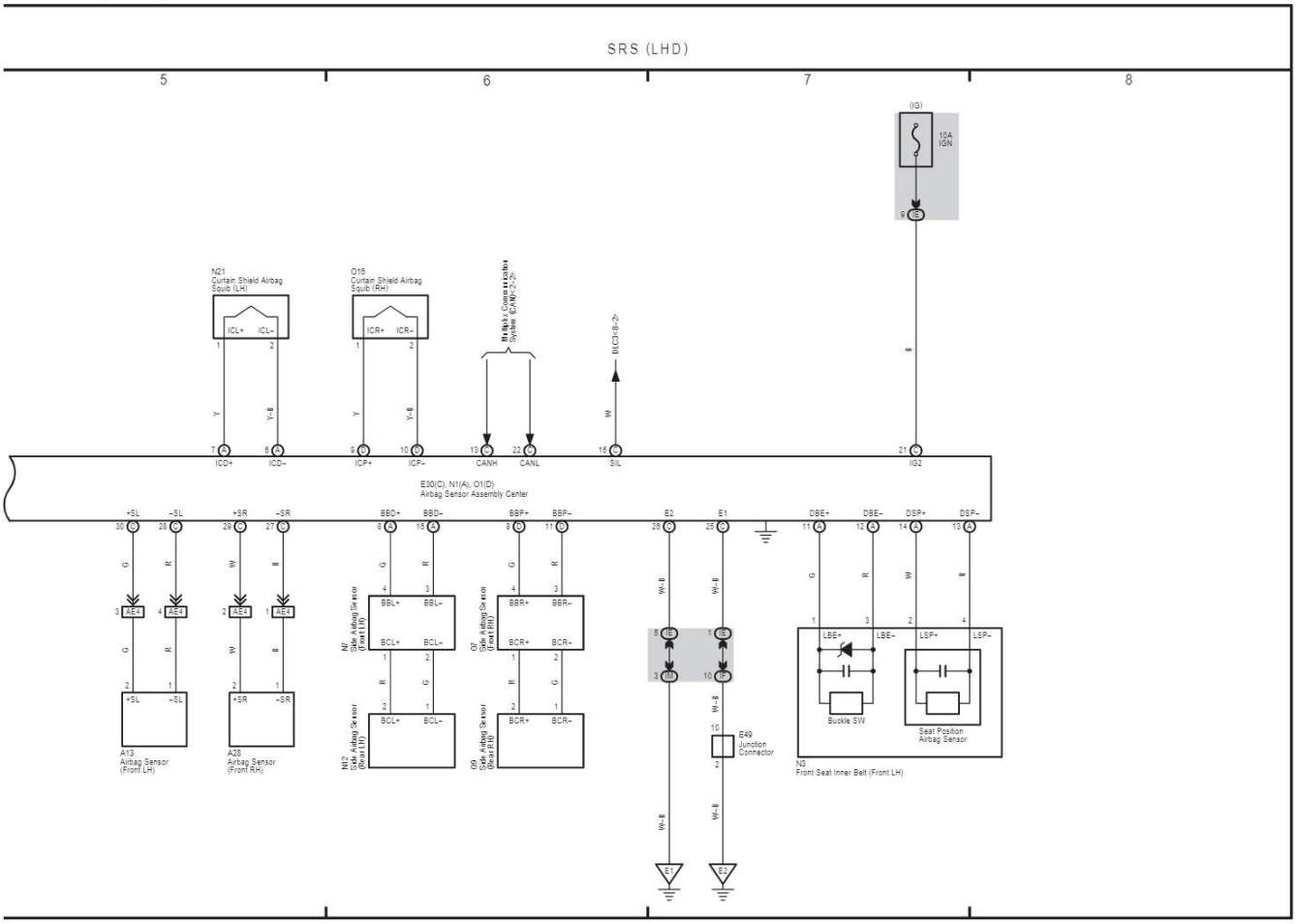



ABS (w/o VSC)
5
6
7
8
(BAT)
10A
DOME
(IG)
7.5A
GAUGE
NO. 2
(BAT)
10A
MPX-B
V(LHD)
V(RHD)
IG
G/R
SB
(LHD)
SB
(RHD)
R
R
G/R
W
V(LHD)
V(RHD)
F1(A), F2(B)
Combination Meter
B2
IG+
B
Power Supply
Circuit
Speedometer
IG2
Fuel
IG2
ABS
Micro Computer
Drive IC
Drive IC
CAN I/F
CANH
CANL
ES
B/LE
BR
BR
(RHD)
GR(RHD)
BR
(LHD)
GR(LHD)
W-B
Multiplex Communication System <CAN>
Combination Meter System <7-5>
M

20 CAMRY

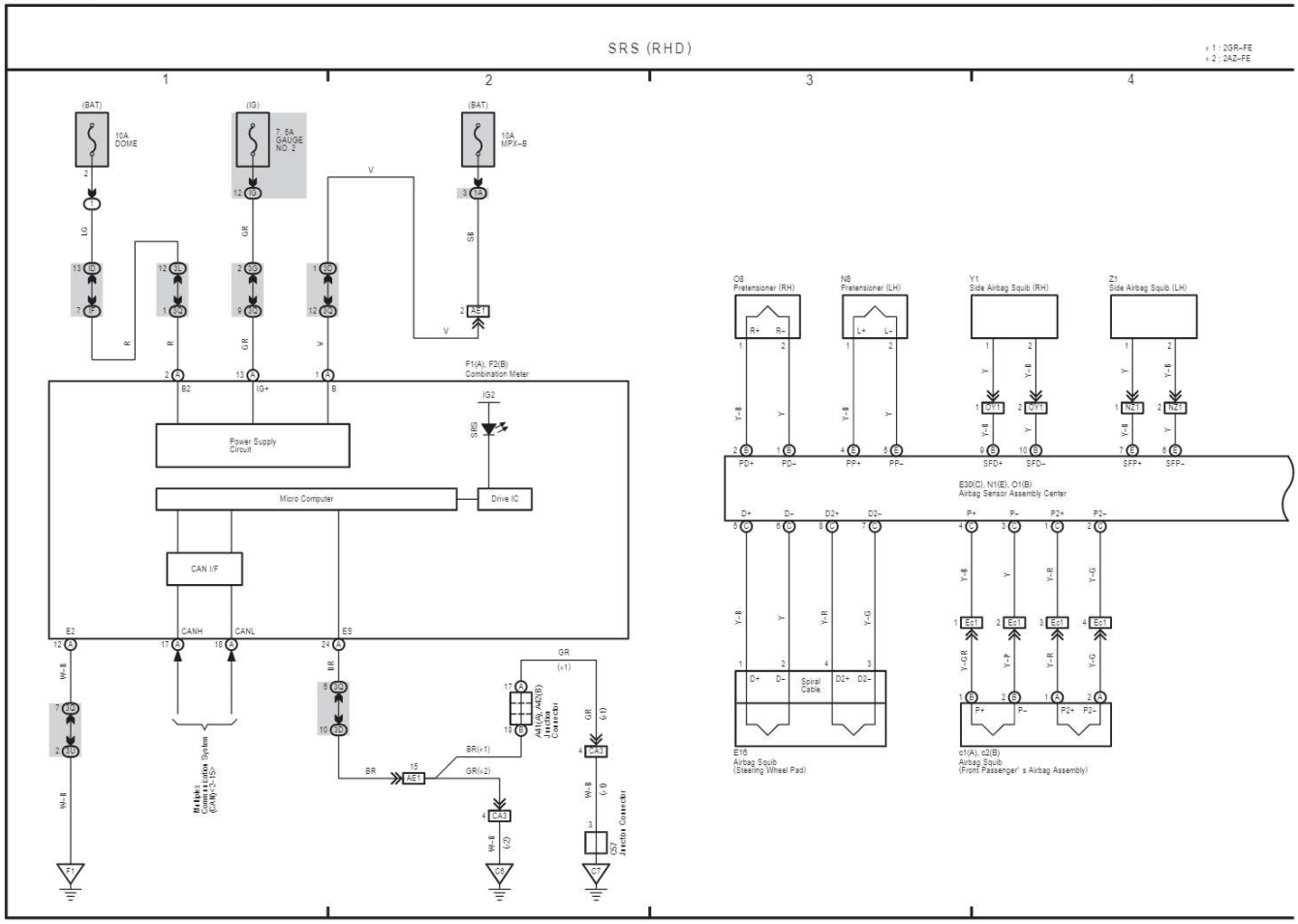
(Cont. next page)

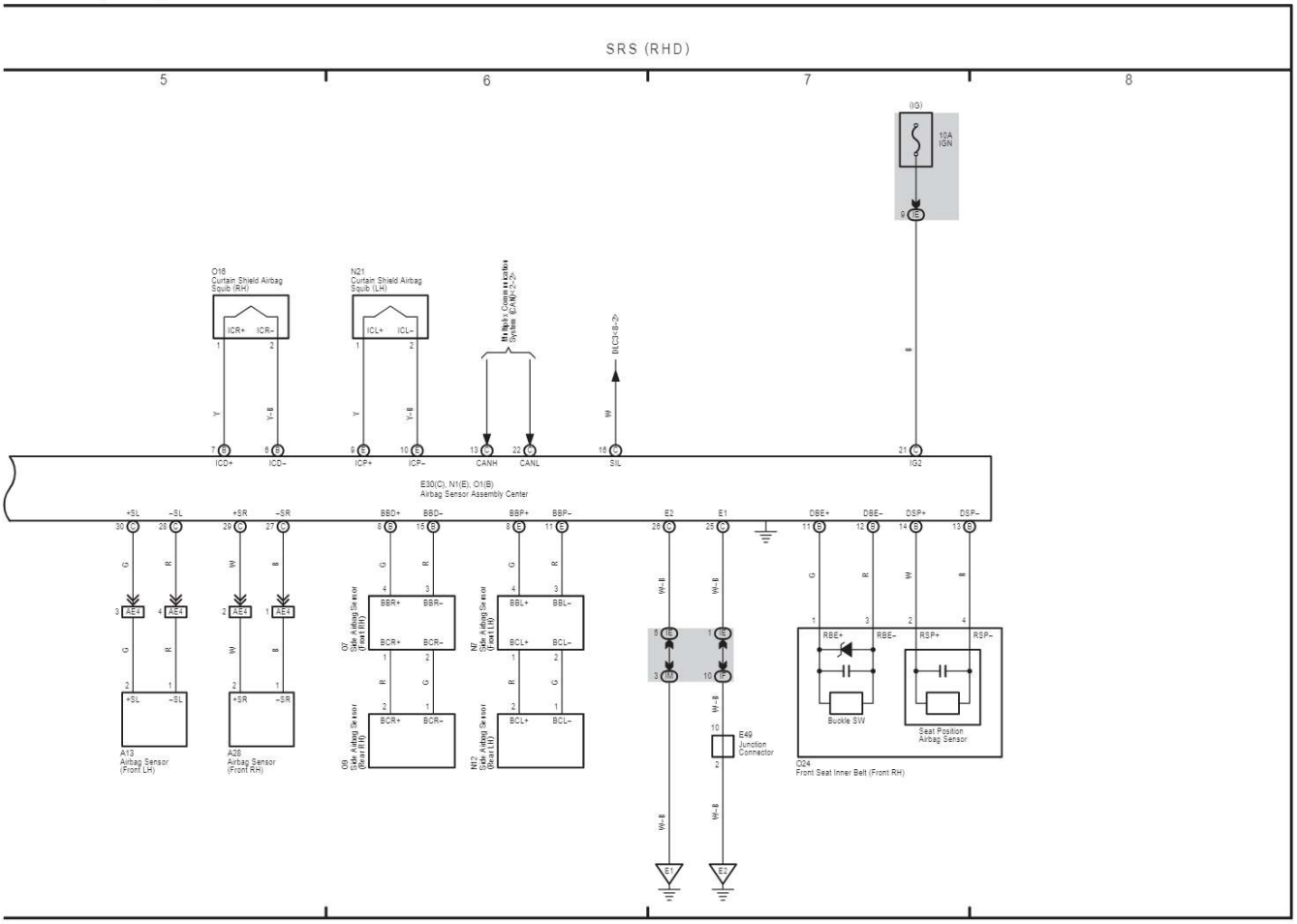



SRS (LHD)
5
6
7
8
(IG)
10A
IGN
9
IB
N21
Curtain Shield Airbag
Squib (LH)
ICL+
ICL-
O16
Curtain Shield Airbag
Squib (RH)
ICR+
ICR-
Bridge to Combination
Meter (CAN)-2-2
(LC3-8)-2
ICD+
ICD-
ICP+
ICP-
CANH
CANL
SIL
IG2
E30(C), N1(A), O1(D)
Airbag Sensor Assembly Center
+SL
-SL
+SR
-SR
BBD+
BBD-
BBP+
BBP-
E2
E1
DBE+
DBE-
DSP+
DSP-
AE4
A13
Airbag Sensor
(Front LH)
A28
Airbag Sensor
(Front RH)
N1
Side Airbag Sensor
(Front LH)
BBL+
BBL-
BCL+
BCL-
N2
Side Airbag Sensor
(Rear LH)
O1
Side Airbag Sensor
(Front RH)
BBR+
BBR-
BCR+
BCR-
O2
Side Airbag Sensor
(Rear RH)
IE
IF
E49
Junction
Connector
LBE+
LBE-
LSP+
LSP-
Buckle SW
Seat Position
Airbag Sensor
N3
Front Seat Inner Belt (Front LH)
E1
E2

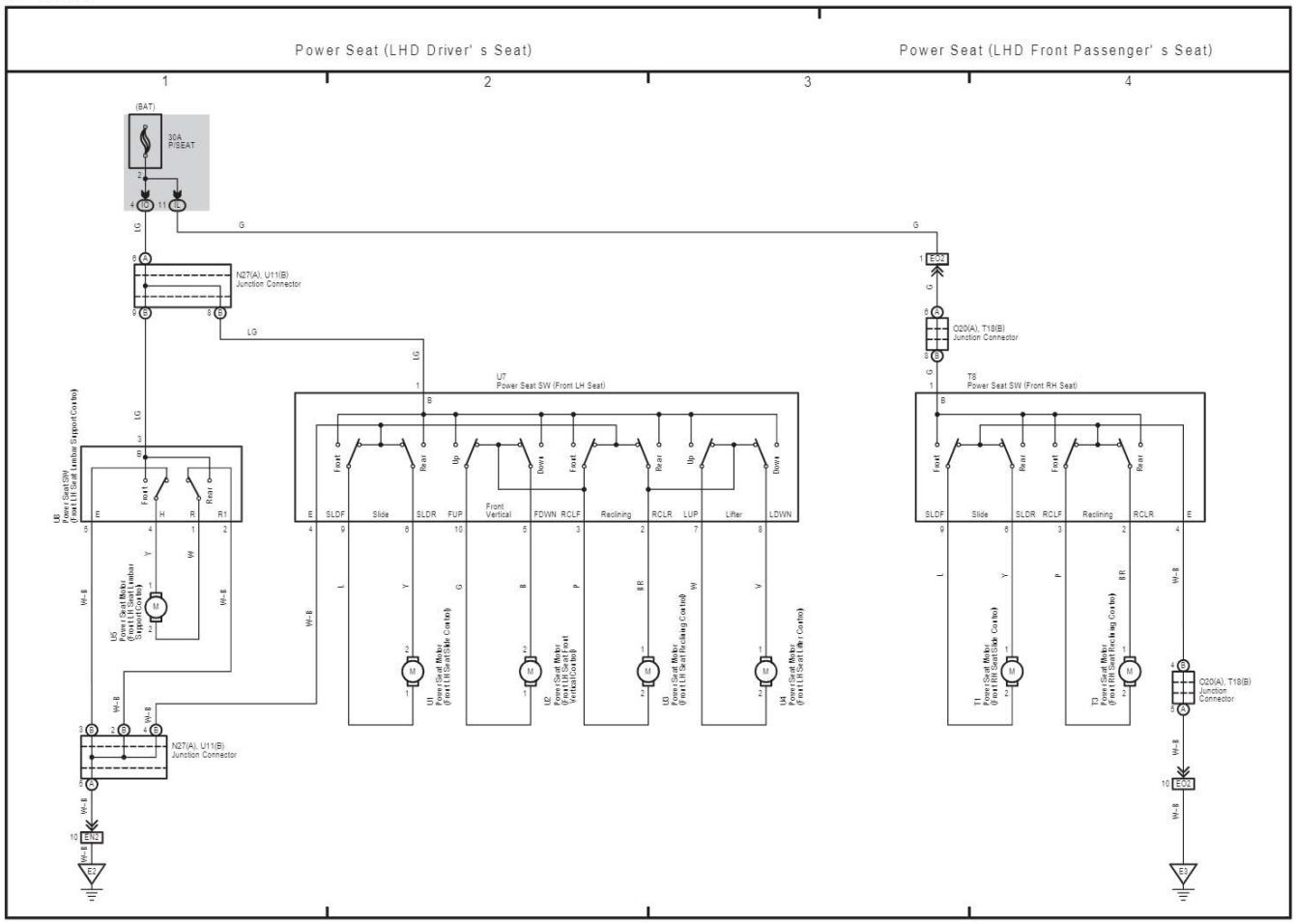
21 CAMRY

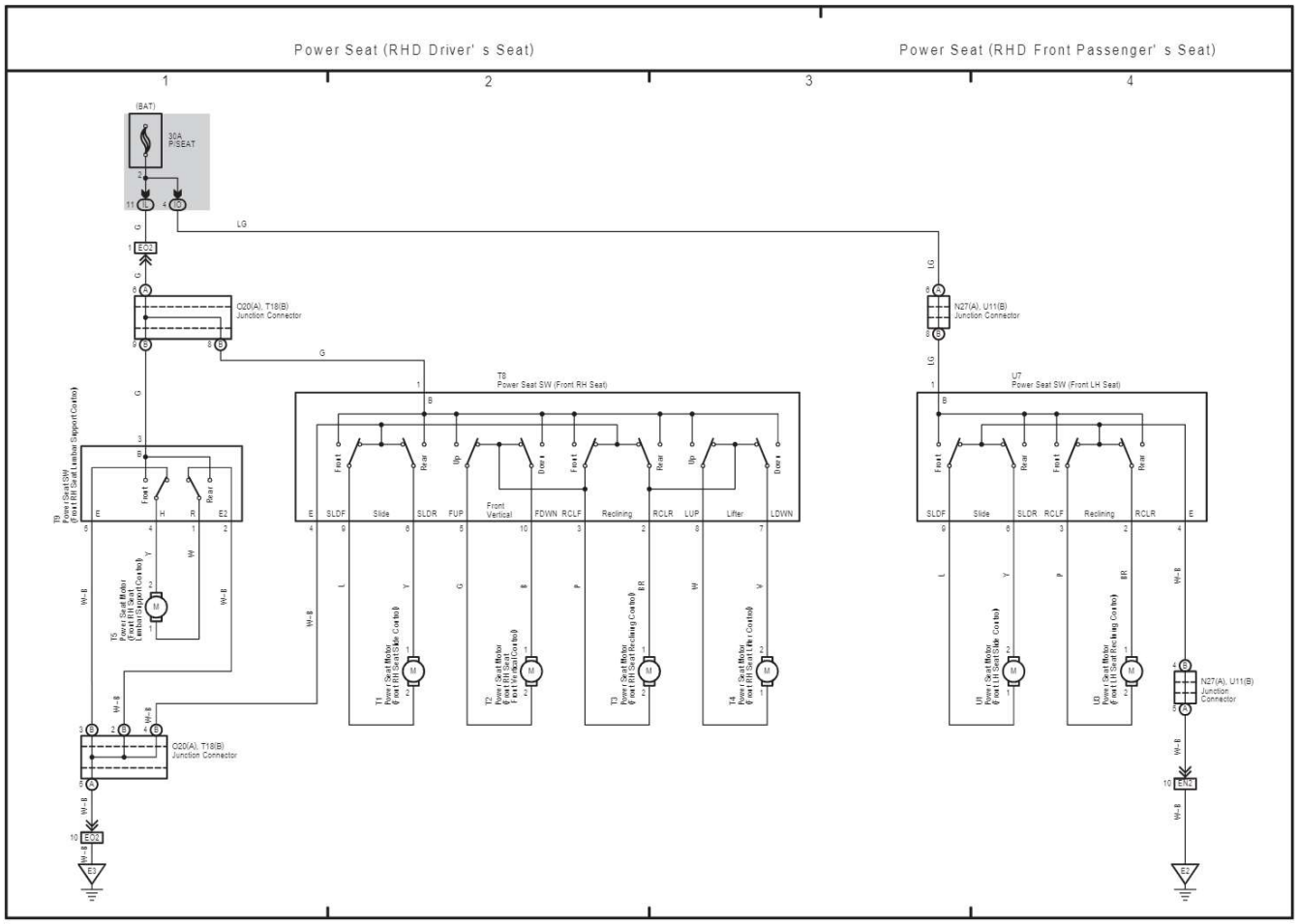
(Cont. next page)



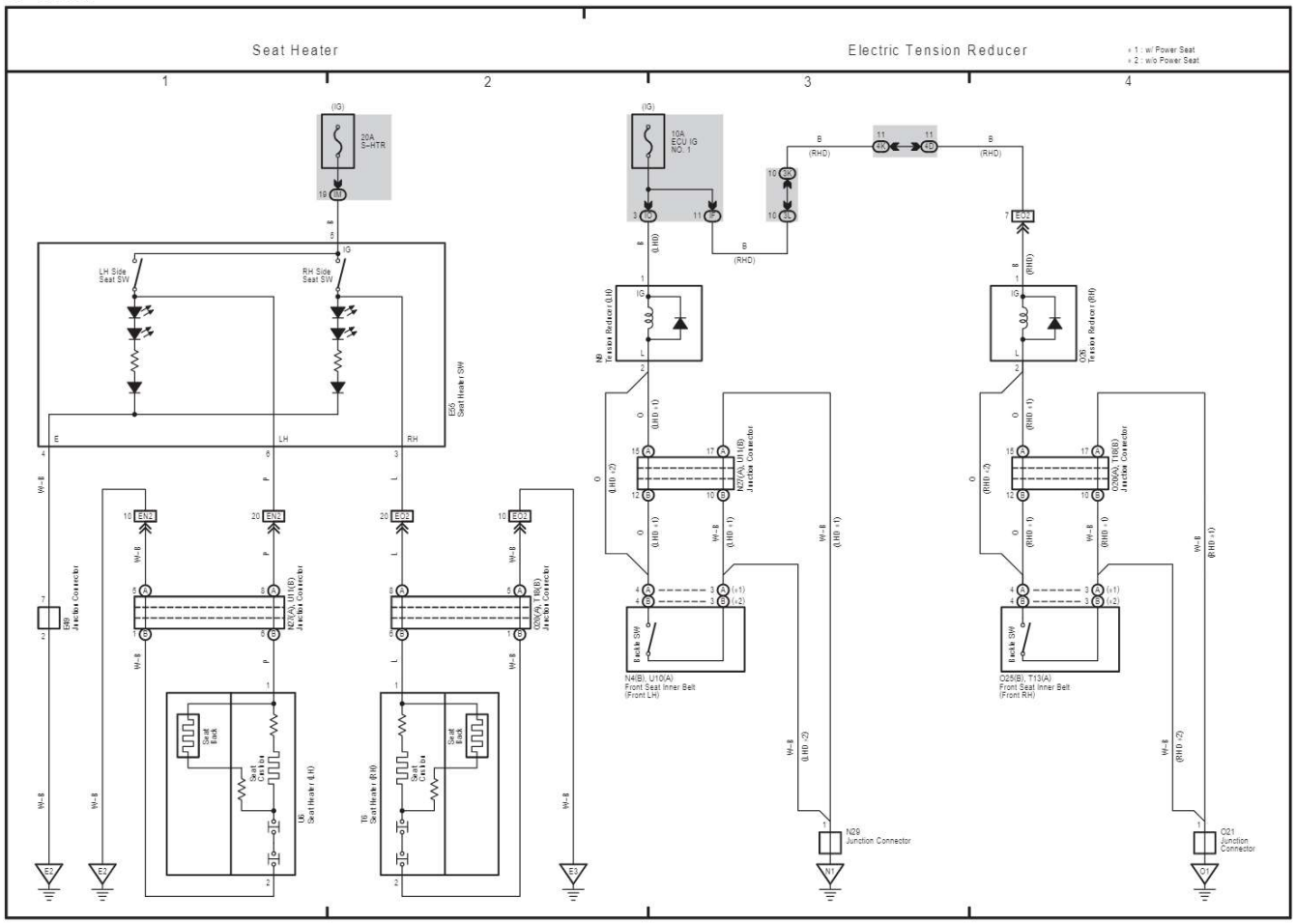

SRS (RHD)
5
6
7
8
(IG)
10A
IGN
O16
Curtain Shield Airbag
Squib (RH)
ICR+
ICR–
N21
Curtain Shield Airbag
Squib (LH)
ICL+
ICL–
Bridge to Combination
Meter (CAN)-2-2>
<ICS3-8–2>
ICD+
ICD–
ICP+
ICP–
CANH
CANL
SIL
IG2
E30(C), N1(E), O1(B)
Airbag Sensor Assembly Center
+SL
–SL
+SR
–SR
BBD+
BBD–
BBP+
BBP–
E2
E1
DBE+
DBE–
DSP+
DSP–
A13
Airbag Sensor
(Front LH)
A28
Airbag Sensor
(Front RH)
O7
Side Airbag Sensor
(Rear LH)
O9
Side Airbag Sensor
(Rear RH)
N7
Side Airbag Sensor
(Front LH)
N8
Side Airbag Sensor
(Front RH)
E49
Junction
Connector
RBE+
RBE–
RSP+
RSP–
Buckle SW
Seat Position
Airbag Sensor
O24
Front Seat Inner Belt (Front RH)

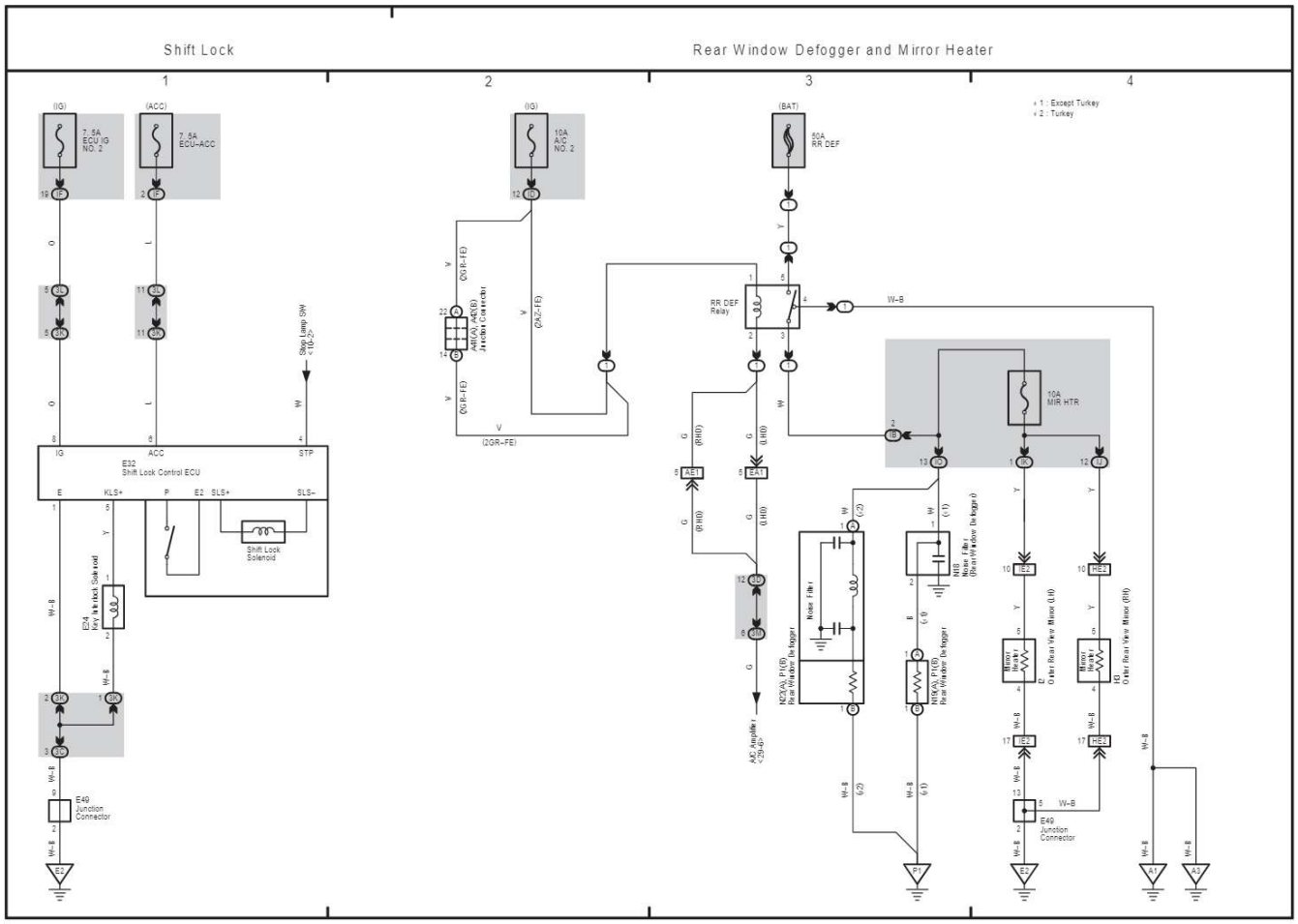
22 CAMRY

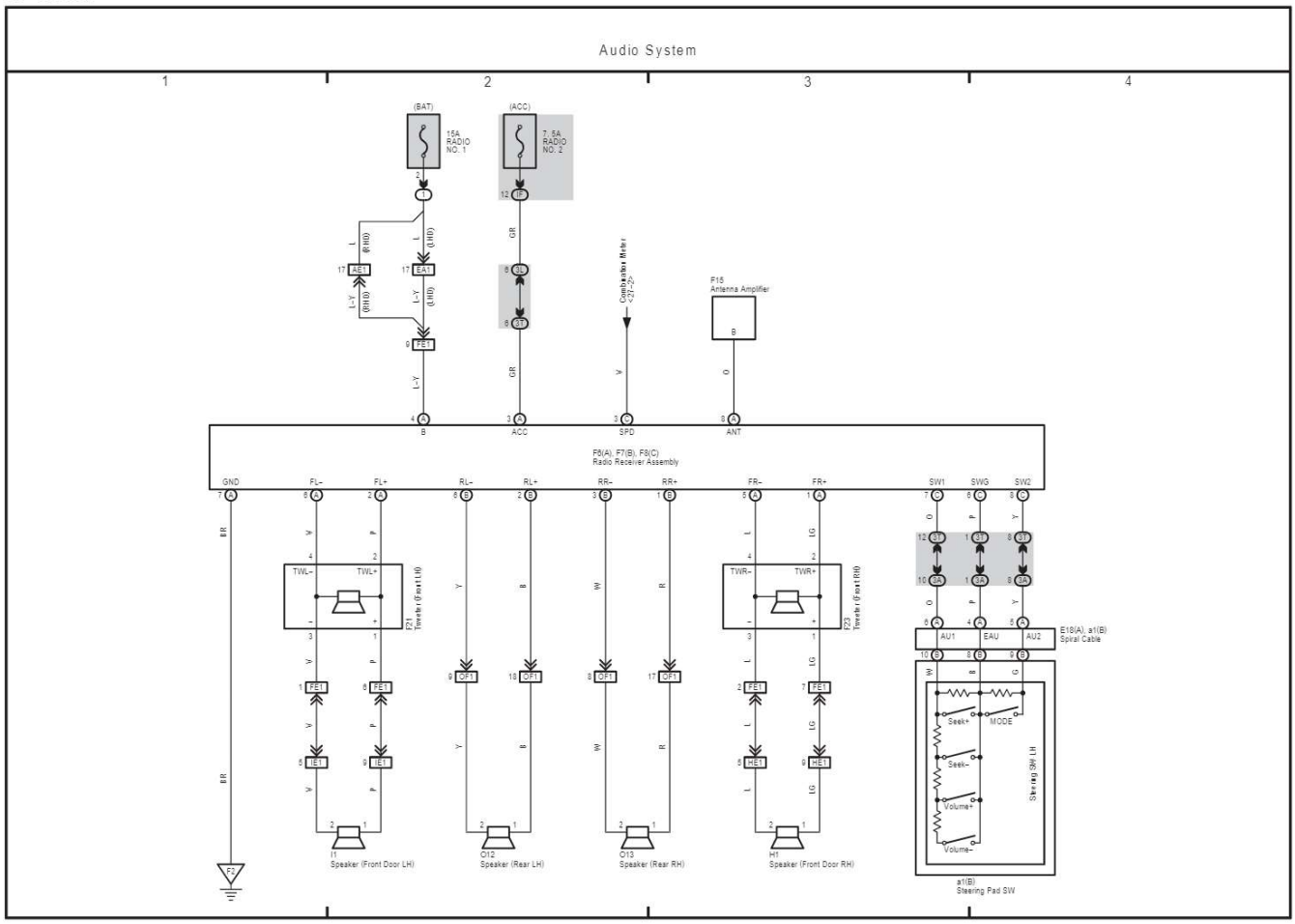

Power Seat (LHD Driver' s Seat)
Power Seat (LHD Front Passenger' s Seat)
1
2
3
4
(BAT)
30A P/SEAT
IG
G
LG
N27(A), U11(B) Junction Connector
O20(A), T18(B) Junction Connector
U7 Power Seat SW (Front LH Seat)
T8 Power Seat SW (Front RH Seat)
U6 Power Seat SW (Front LH Seat Lumbar Support Control)
U5 Power Seat Motor (Front LH Seat Lumbar Support Control)
U1 Power Seat Motor (Front LH Seat Slide Control)
U2 Power Seat Motor (Front LH Seat Vertical Control)
U3 Power Seat Motor (Front LH Seat Reclining Control)
U4 Power Seat Motor (Front LH Seat Lifter Control)
T1 Power Seat Motor (Front RH Seat Slide Control)
T2 Power Seat Motor (Front RH Seat Reclining Control)
Front
Rear
Up
Down
SLDF
Slide
SLDR
FUP
Front Vertical
FDWN
RCLF
Reclining
RCLR
LUP
Lifter
LDWN
W-B
E2
E3


Power Seat (RHD Driver' s Seat)
Power Seat (RHD Front Passenger' s Seat)
1
2
3
4
(BAT)
30A
P/SEAT
LG
E23
C20(A), T18(B)
Junction Connector
T8
Power Seat SW (Front RH Seat)
U7
Power Seat SW (Front LH Seat)
T9
Power Seat SW
(Front RH Seat Lumbar Support Control)
Front
Rear
Up
Down
SLDF
Slide
SLDR
FUP
Front Vertical
FDWN
RCLF
Reclining
RCLR
LUP
Lifter
LDWN
T5
Power Seat Motor
(Front RH Seat Lumbar Support Control)
T1
Power Seat Motor
(Front RH Seat Slide Control)
T2
Power Seat Motor
(Front RH Seat Vertical Control)
T3
Power Seat Motor
(Front RH Seat Reclining Control)
T4
Power Seat Motor
(Front RH Seat Lifter Control)
U1
Power Seat Motor
(Front LH Seat Slide Control)
U2
Power Seat Motor
(Front LH Seat Reclining Control)
C20(A), T18(B)
Junction Connector
E22
E7
N27(A), U11(B)
Junction Connector
E24
E7

24 CAMRY

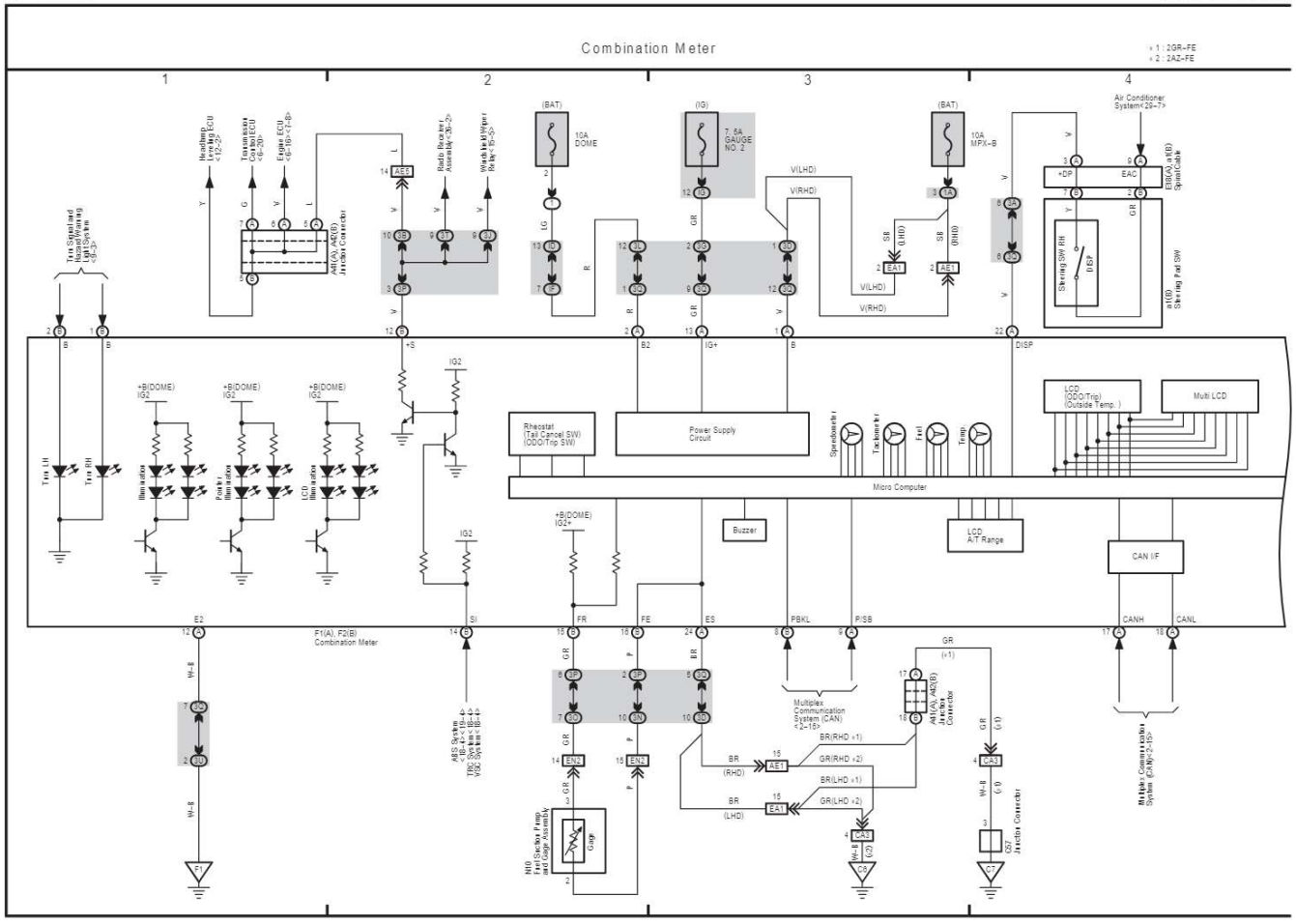

Seat Heater
Electric Tension Reducer
* 1 : w/ Power Seat
* 2 : w/o Power Seat
1
2
3
4
(IG)
20A
S-HTR
10A
ECU IG
NO. 1
LH Side
Seat SW
RH Side
Seat SW
E55
Seat Heater SW
LH
RH
W-B
P
L
O
B
(RHD)
(LHD)
(LHD -1)
(LHD -2)
(RHD -1)
(RHD -2)
EN2
EC22
EN24
EC24
IG1
Junction Connector
N2(A), U1(E)
Junction Connector
O2(A), T1(E)
Junction Connector
O2(A), T1(B)
Junction Connector
Seat Belt
Seat Circuit
U6
Seat Heater (LH)
T6
Seat Heater (RH)
N2
Tension Reducer (LH)
O2
Tension Reducer (RH)
Buckle SW
N4(B), U10(A)
Front Seat Inner Belt
(Front LH)
O25(B), T13(A)
Front Seat Inner Belt
(Front RH)
N29
Junction Connector
O21
Junction Connector
E1
N1
O1

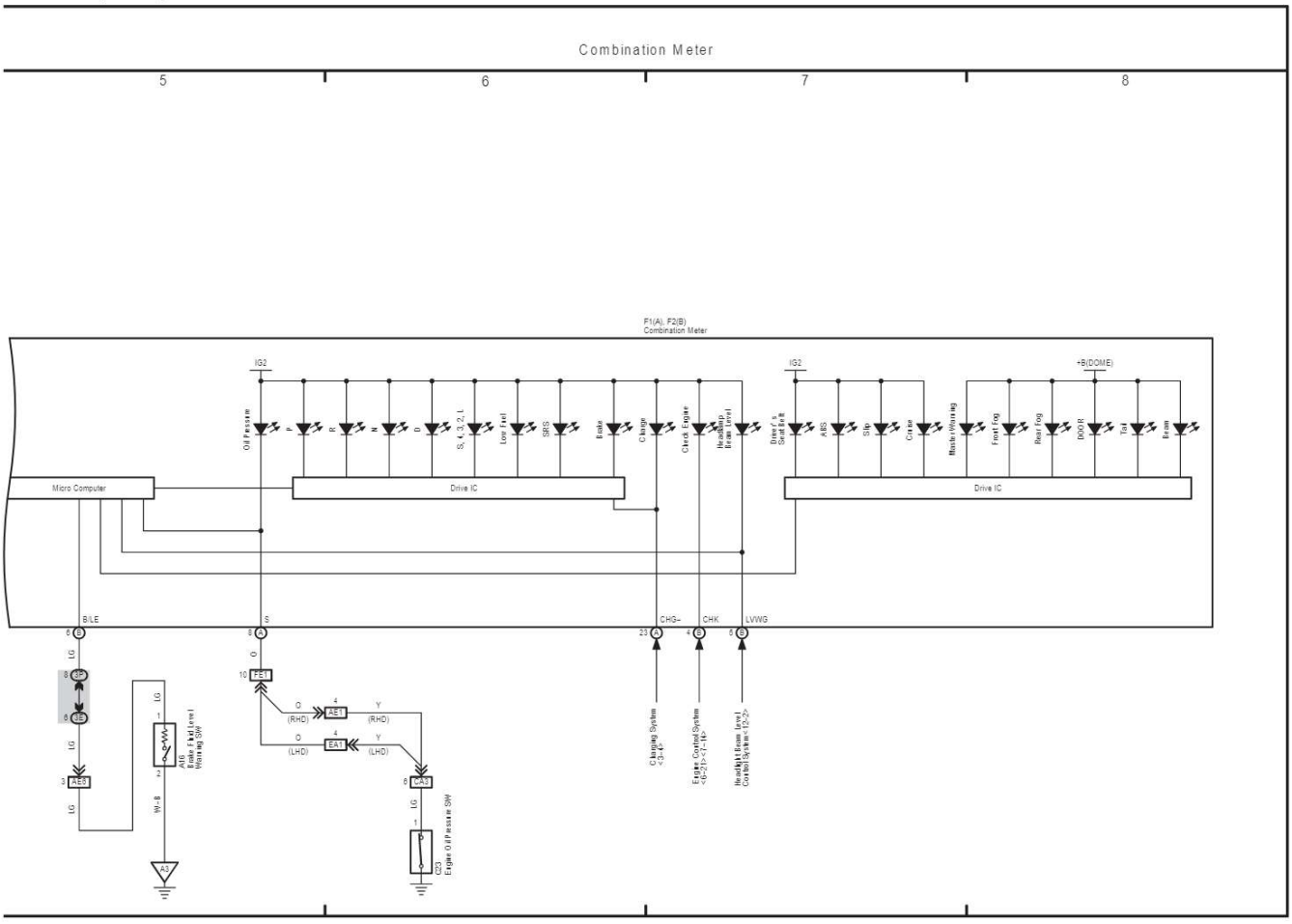

Shift Lock
Rear Window Defogger and Mirror Heater
1
2
3
4
+ 1 : Except Turkey
+ 2 : Turkey
(IG)
7.5A
ECU IG
NO. 2
(ACC)
7.5A
ECU-ACC
10A
A/C
NO. 2
(BAT)
50A
RR DEF
RR DEF
Relay
10A
MIR HTR
Stop Lamp SW
<10-2>
E32
Shift Lock Control ECU
IG
ACC
STP
E
KLS+
P
E2
SLS+
SLS-
Shift Lock
Solenoid
E24
Key Interlock Solenoid
E49
Junction
Connector
A/C Amplifier
<29-6>
Noise Filter
NC2(A), P1(B)
Rear Window Defogger
Noise Filter
N18
(Rear Window Defogger)
Mirror
Heater
(LH)
Outer Rear View Mirror (LH)
Mirror
Heater
(RH)
HO
Outer Rear View Mirror (RH)
W-B
(2GR-FE)
(2AZ-FE)
(1GR-FE)


Audio System
1
2
3
4
(BAT)
(ACC)
15A RADIO NO. 1
7.5A RADIO NO. 2
Combination Meter
F15 Antenna Amplifier
F9(A), F7(B), F8(C) Radio Receiver Assembly
GND
FL−
FL+
RL−
RL+
RR−
RR+
FR−
FR+
SW1
SWG
SW2
TWL−
TWL+
TWR−
TWR+
F21 Tweeter (Front LH)
F23 Tweeter (Front RH)
E18(A), a1(B) Spiral Cable
AU1
EAU
AU2
Seek+
MODE
Seek−
Volume+
Volume−
Steering SW LH
I1 Speaker (Front Door LH)
O12 Speaker (Rear LH)
O13 Speaker (Rear RH)
H1 Speaker (Front Door RH)
a1(B) Steering Pad SW

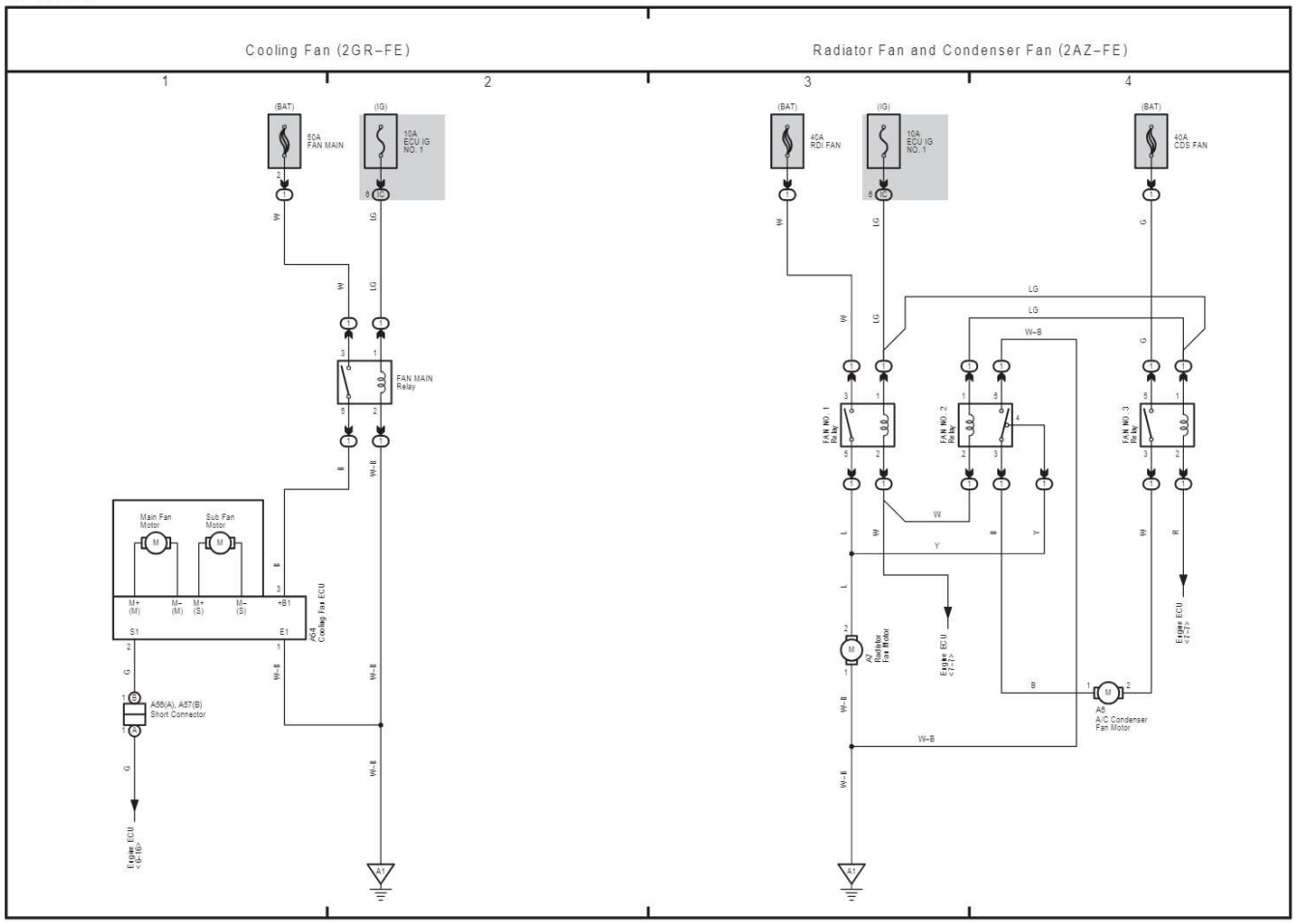
27 CAMRY

(Cont. next page)



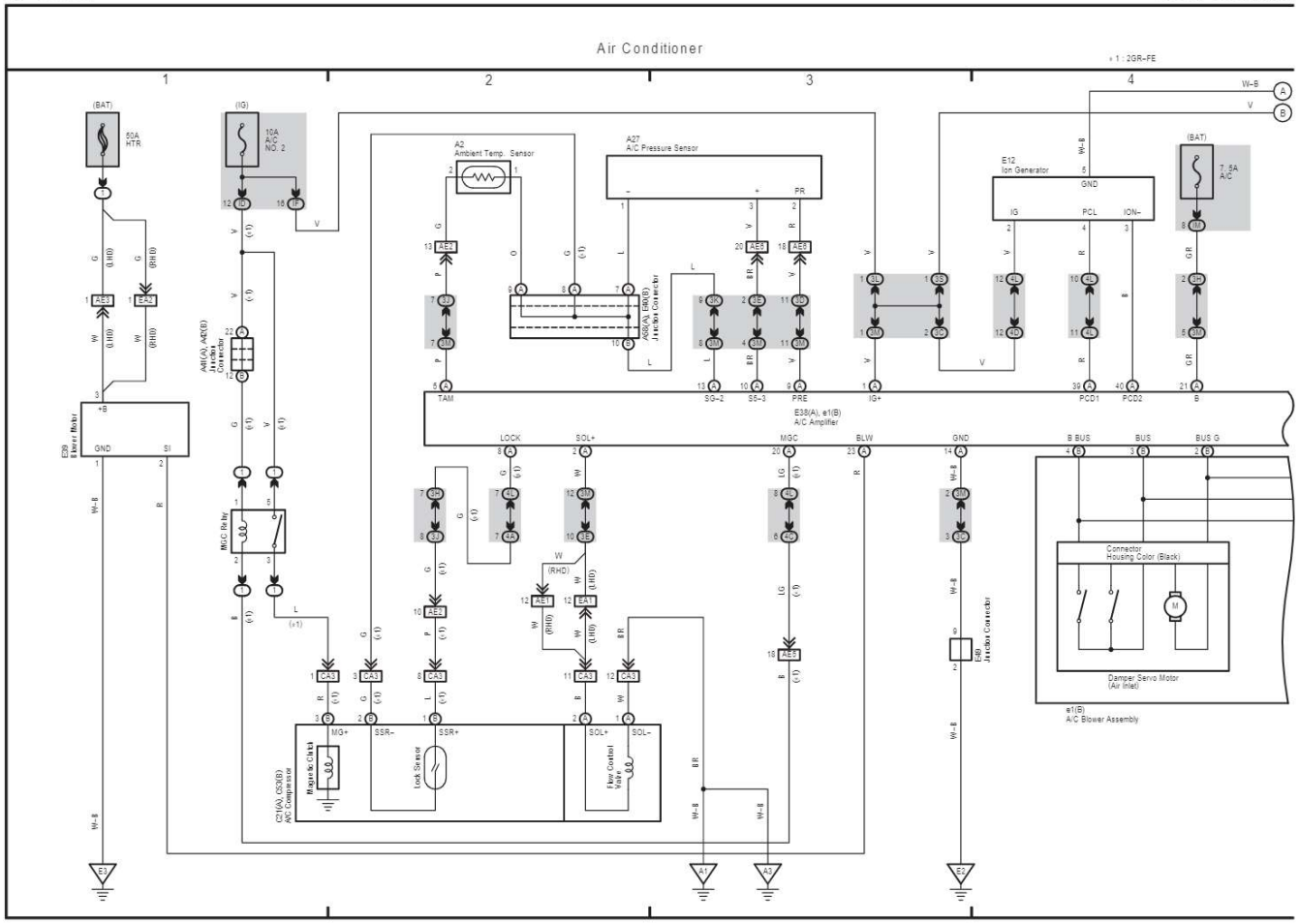

Combination Meter
5
6
7
8
F1(A), F2(B)
Combination Meter
IG2
Oil Pressure
P
R
N
D
S, 4, 3, 2, L
Low Fuel
SRS
Brake
Charge
Check Engine
Headlamp High Beam Level
Micro Computer
Drive IC
IG2
Driver's Seat Belt
ABS
Slip
Cruise
+B(DOME)
Brake Warning
Front Fog
Rear Fog
DOOR
Tail
Beam
Drive IC
B/LE
S
CHG-
CHK
LVWG
EB
EB1
AE8
AE7
AE1
EA1
CA2
A2
CD3
Brake Fluid Level Warning SW
Engine Oil Pressure SW
Charging System <12-4>
Engine Control System <6-21><7-16>
Headlight Beam Level Control System <12-2>
(RHD)
(LHD)

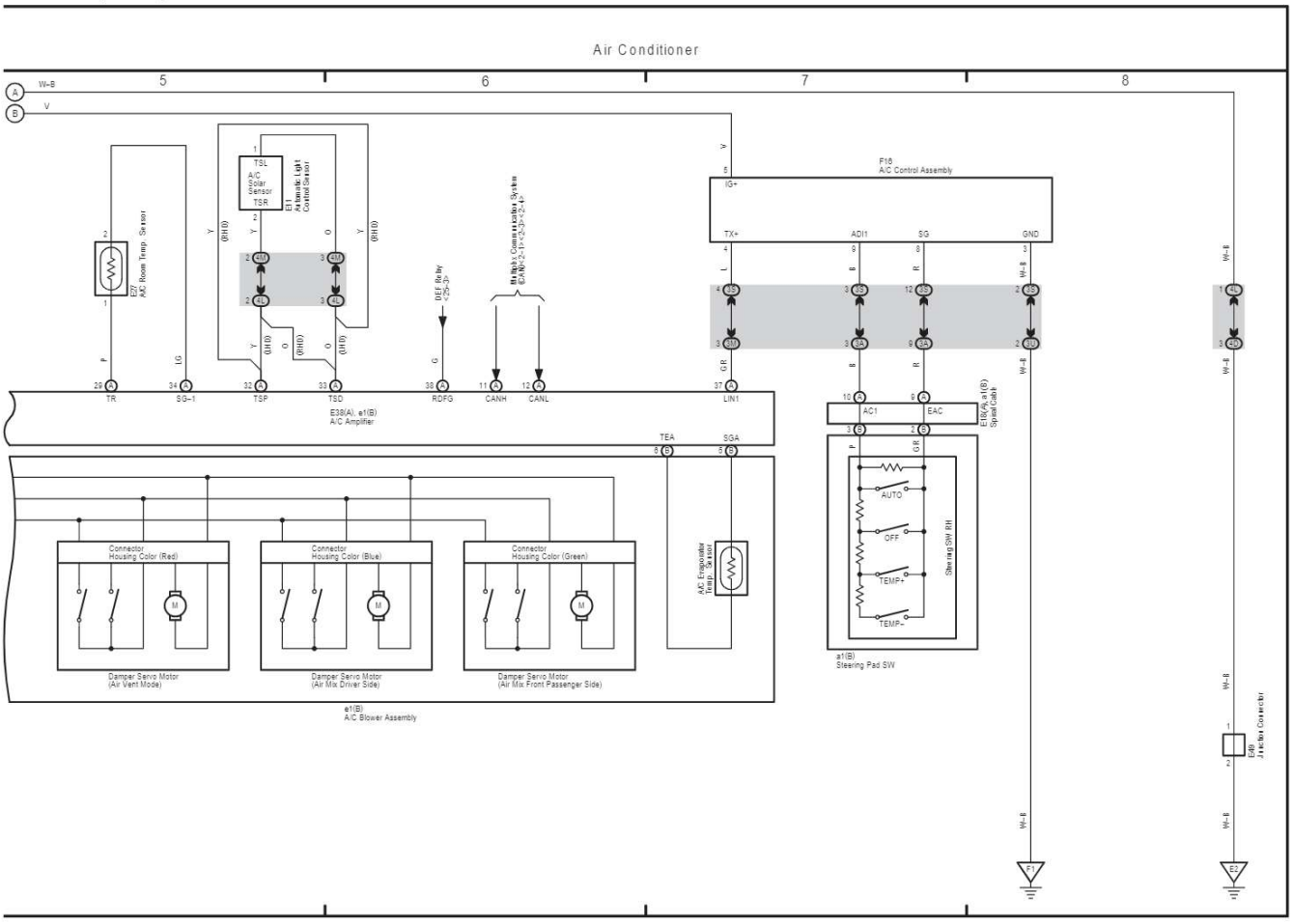
28 CAMRY


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
FAN MAIN Relay
Main Fan Motor
Sub Fan Motor
A54 Cooling Fan ECU
A58(A), A57(B) Short Connector
Engine ECU
40A RDI FAN
40A CDS FAN
FAN NO. 1 Relay
FAN NO. 2 Relay
FAN NO. 3 Relay
A7 Radiator Fan Motor
A6 A/C Condenser Fan Motor
W
LG
W–B
B
G
L
Y
R

29 CAMRY

(Cont. next page)




Air Conditioner
5
6
7
8
W-B
V
TSL
A/C Solar Sensor
TSR
E11
Air Conditioning Control Sensor
E27
A/C Room Temp. Sensor
DEF Relay
Body Communication System
F16
A/C Control Assembly
IG+
TX+
ADI1
SG
GND
TR
SG-1
TSP
TSD
RDFG
CANH
CANL
LIN1
E38(A), e1(B)
A/C Amplifier
TEA
SGA
AC1
EAC
E18(A), e1(B)
Spiral Cable
AUTO
OFF
TEMP+
TEMP-
Steering SW RH
a1(B)
Steering Pad SW
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)
A/C Evaporator Temp. Sensor
e1(B)
A/C Blower Assembly
E26
J/B-No.2 Connector
F1
E2