2007 RAV4 ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description			
	INDEX	Index of the contents of this manual.			
A	INTRODUCTION	Brief explanation of each section.			
В	HOW TO USE THIS MANUAL	Instructions on how to use this manual.			
С	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.			
	INDEX	Index of the system circuits.			
Н	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, "How to use this manual"). The "System Outline" and "Service Hints" useful for troubleshooting are also contained in this section. (Only wiring information for complete circuits is included.)			
I	GROUND POINT	Shows ground positions of all parts described in this manual.			
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.			
К	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.			
		Provides circuit diagrams showing the circuit connections. (Only wiring information for complete circuits is included.)			

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.)

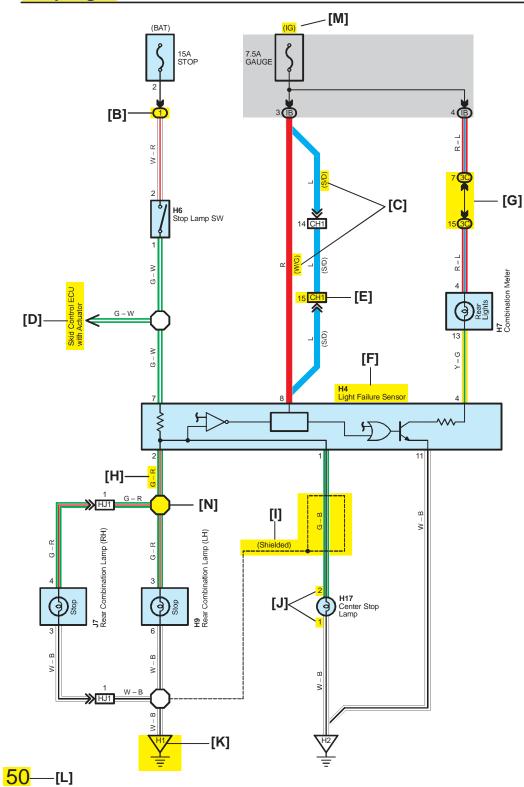
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand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

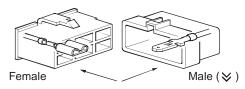
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

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.



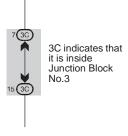
The first character of the connector code indicates the alphabetical code allocated to the wire harness which has the female connector, and the second shows that of the wire harness which has the male connector.

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 (\geqslant) 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:



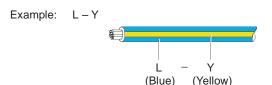
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

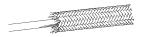
B = Black W = White BR = Brown
L = Blue V = Violet SB = Sky Blue
R = Red G = Green LG = Light Green
P = Pink Y = Yellow GR = Gray

O = Orange

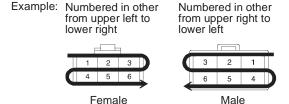
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.



[I] : Indicates a shielded cable.



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



[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:



B HOW TO USE THIS MANUAL

[0]

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

[R] : Junction Block and Wire Harness Connector

Code	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)		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		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.

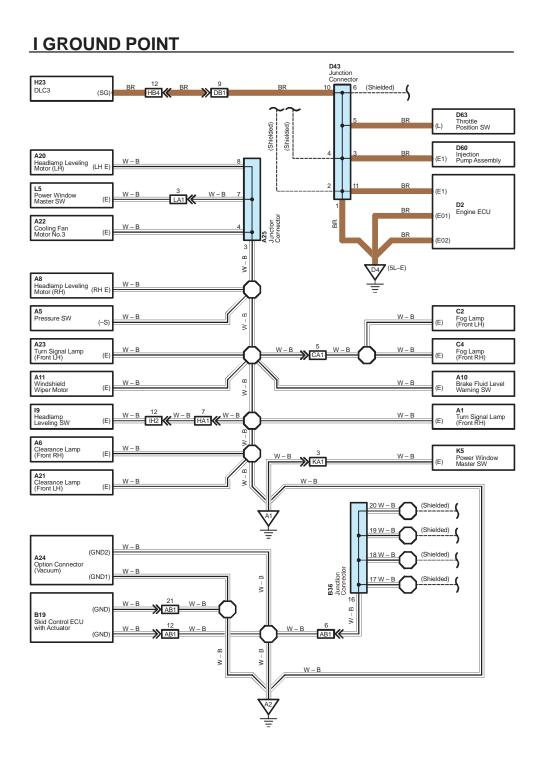
Example: Code "H4" (Light Failure Sensor) is on page 36 of the manual.

* 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.

Example: H 4
Serial number for the connected parts
Code for 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

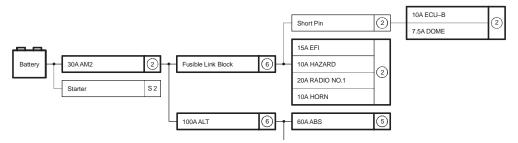


^{*} The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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)

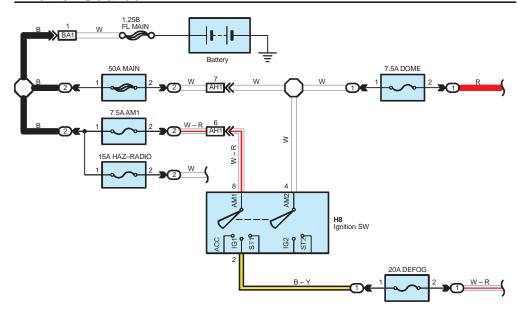
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

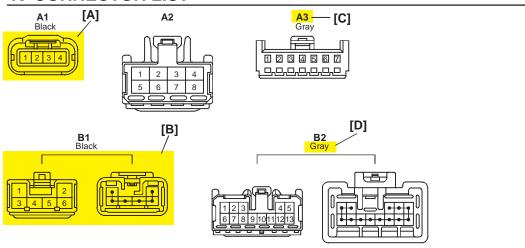
)
ABS	194
ABS and Traction Control	187
Cruise Control	180
Electronically Controlled Transmission	166
Multiplex Communication System	210
Cigarette Lighter	214
Combination Meter	230
Headlight	112
Interior Light	122
Key Reminder and Seat Belt Warning	
Light Auto Turn Off System	
	ABS and Traction Control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

Power Source

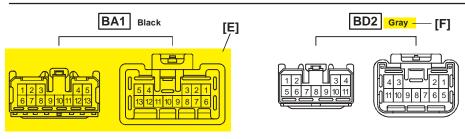


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



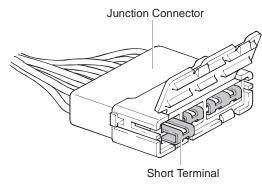
K CONNECTOR LIST



[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)

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L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A1	, , , , , , , , , , , , , , , , , , , ,		B22	Door Courtesy SW (Front LH)	90980-12470
A2			B23	Front Seat Outer Belt (LH)	90980-12253
A3	Air Flow Meter	90980-12292	B24	Blower SW (Rear Heater)	90980-10463
A4	A/C Pressure Sensor	90980-10845	B25	Front Seat Outer Belt (RH)	90980-12253
A5	Pressure SW	90980-10943	B26	Door Courtesy SW (Front RH)	90980-12470
<i>F</i> 6	Clearance Lamp (Front RH)	90980-11156	B27	Cooling Fan ECU No.1	90980-10841
[A]	Headla [B] H)	909 [C] 314	B28	Cooling Fan ECU No.2	90900-10041
A8	Headlamp Leveling Motor (RH)	90980-11016	B29	Water Temp. Sensor (Radiator)	90980-10735
A9	Brake Vacuum Warning SW	90980-11252	B30	Fuel Filter Warning SW	90980–11003
A10	Brake Fluid Level Warning SW	90980-11207	B32	Door Control Relay (LH)	90980–10789
A11	Windshield Washer Motor	90980-11599	B33	Step Lamp (LH)	90980-10121
A12	Airbag Sensor (Front RH)	90980-11856	B34	Junction Connector	
A13	Air-	90980–12490	B35	Topografia	90980–11398

[A]: Part Code

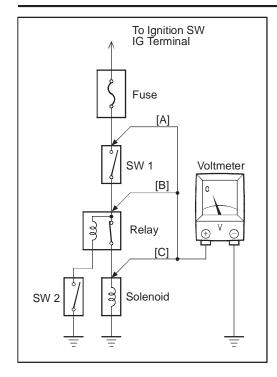
[B]: Part Name

[C]: Part Number

Toyota Part Number are indicated.

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

C TROUBLESHOOTING



VOLTAGE CHECK

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

Example:

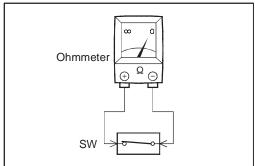
[A] - Ignition SW on

[B] - Ignition SW and SW 1 on

[C] - Ignition SW, SW 1 and Relay on (SW 2 off)

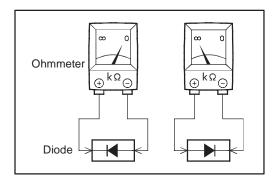
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.

This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

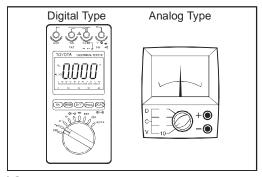
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



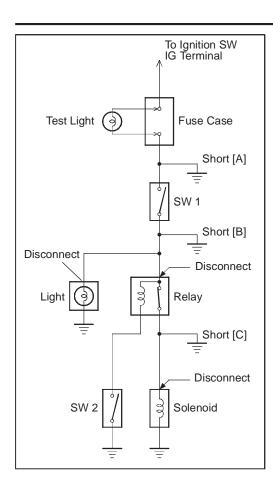
If the circuit has diodes, reverse the two leads and check again.

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 $k\Omega/V$ 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 liaht.
 - 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.

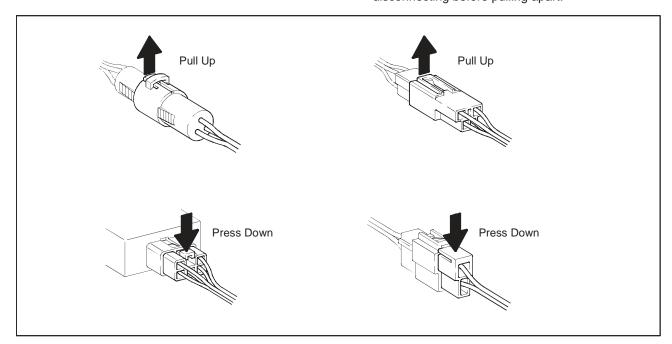
CAUTION:

- (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).

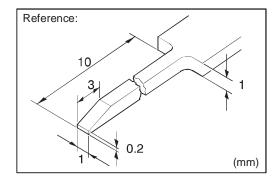
DISCONNECTION OF MALE AND FEMALE CONNECTORS

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

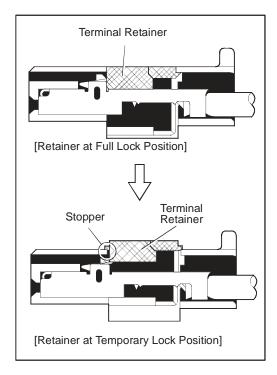
HINT: Check to see what kind of connector you are disconnecting before pulling apart.

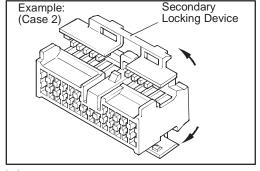


C TROUBLESHOOTING



Example: Up Tool (Case 1) Terminal Retainer





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

- 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

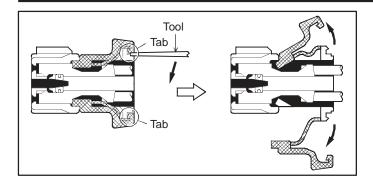
HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

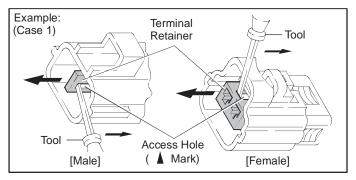
"Case 1"

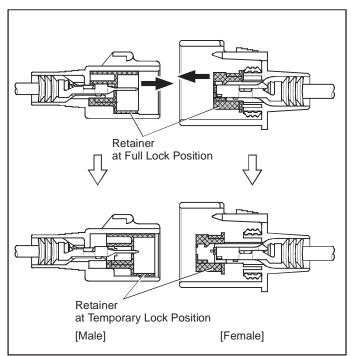
Raise the terminal retainer up to the temporary lock position.

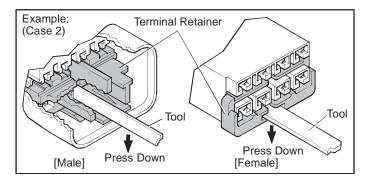
"Case 2"

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).

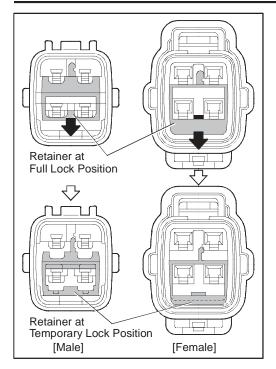
Insert the special tool into the terminal retainer access hole (\blacktriangle Mark) and pull the terminal retainer up to the temporary lock position.

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

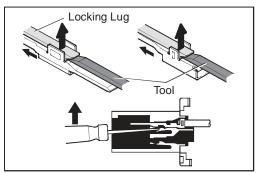
"Case 2"

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

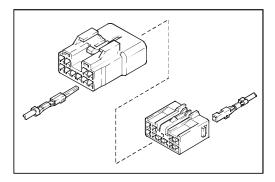
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



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

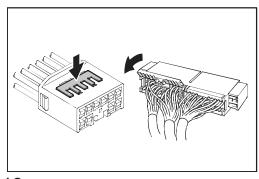


4. INSTALL TERMINAL TO CONNECTOR

(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

16

ABBREVIATIONS

The following abbreviations are used in this manual.

2WD = Two Wheel Drive Vehicles

4WD = Four Wheel Drive Vehicles

A/C = Air Conditioning

A/T = Automatic Transaxle

ABS = Anti-Lock Brake System

ACIS = Acoustic Control Induction System

CAN = Controller Area Network
CPU = Central Processing Unit

ECU = Electronic Control Unit

EPS = Electric Motor Power Steering

ESA = Electronic Spark Advance

ETCS-i = Electronic Throttle Control System-intelligent

FL = Fusible Link

IC = Integrated Circuit J/B = Junction Block

LED = Light Emitting Diode

LH = Left-Hand

LSD = Limited Slip Differential

R/B = Relay Block RH = Right-Hand

SFI = Sequential Multiport Fuel Injection
SRS = Supplemental Restraint System

SW = Switch

TEMP. = Temperature

TRAC = Traction Control

TVIP = TOYOTA Vehicle Intrusion Protection

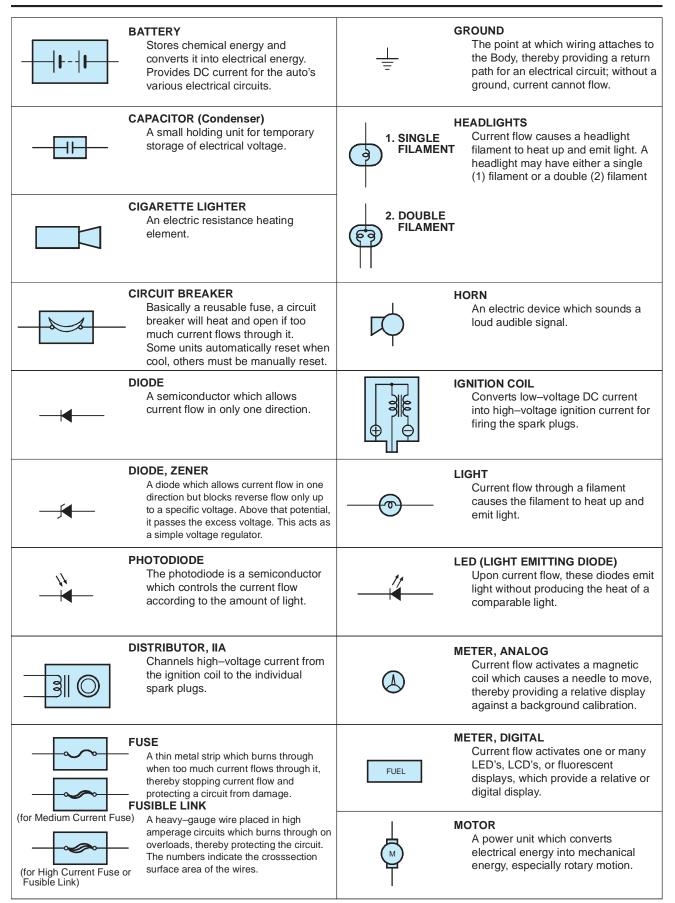
VSC = Vehicle Stability Control
VSV = Vacuum Switching Valve
VVT = Variable Valve Timing

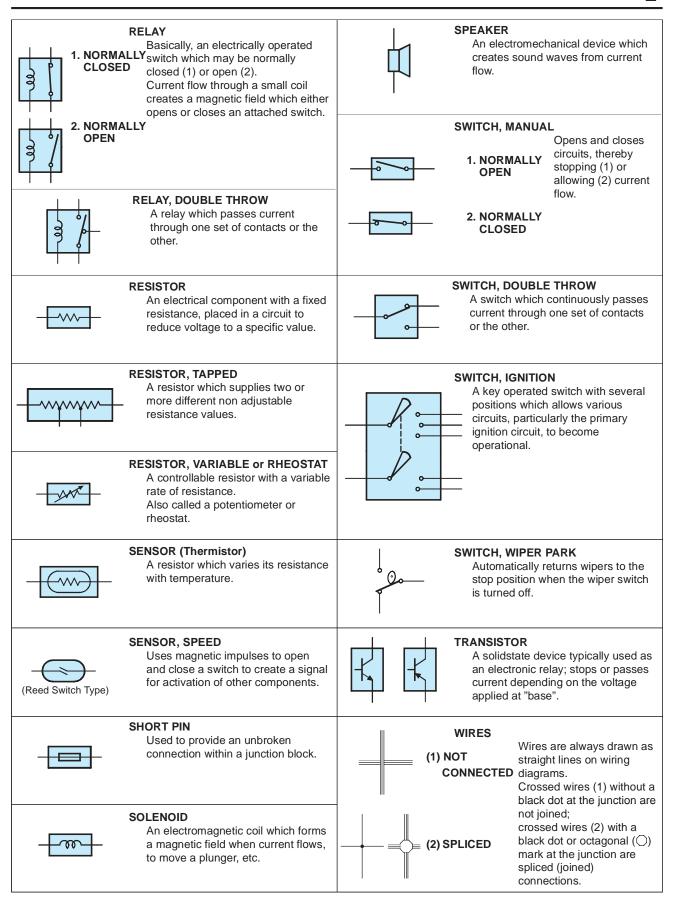
VVT-i = Variable Valve Timing-intelligent

w/ = With w/o = Without

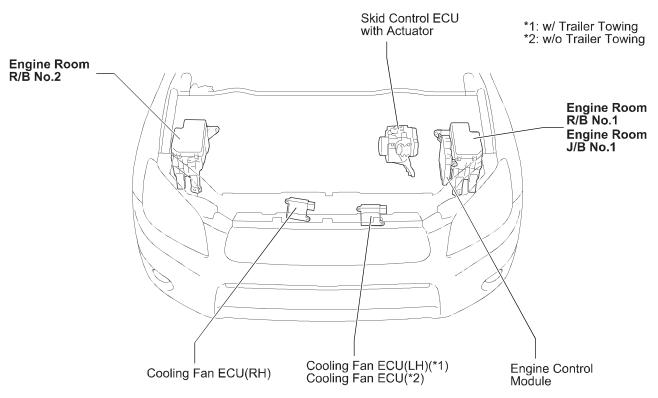
^{*} The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

E GLOSSARY OF TERMS AND SYMBOLS

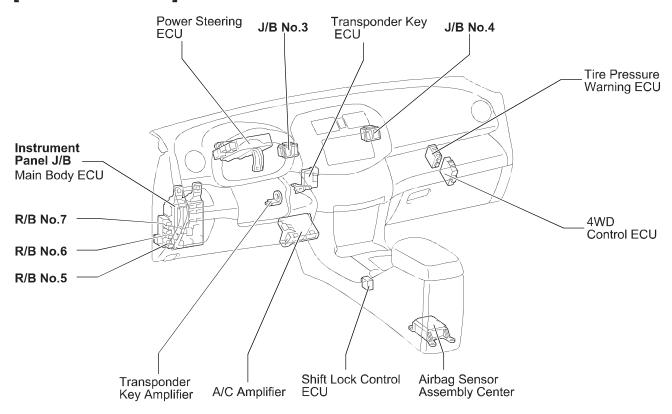




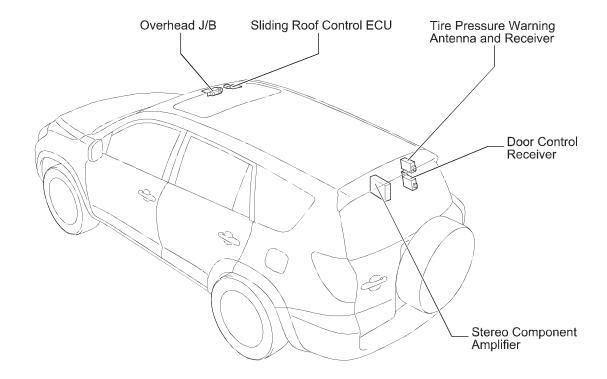
[Engine Compartment]



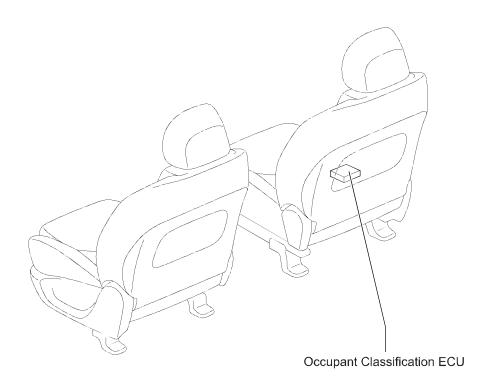
[Instrument Panel]

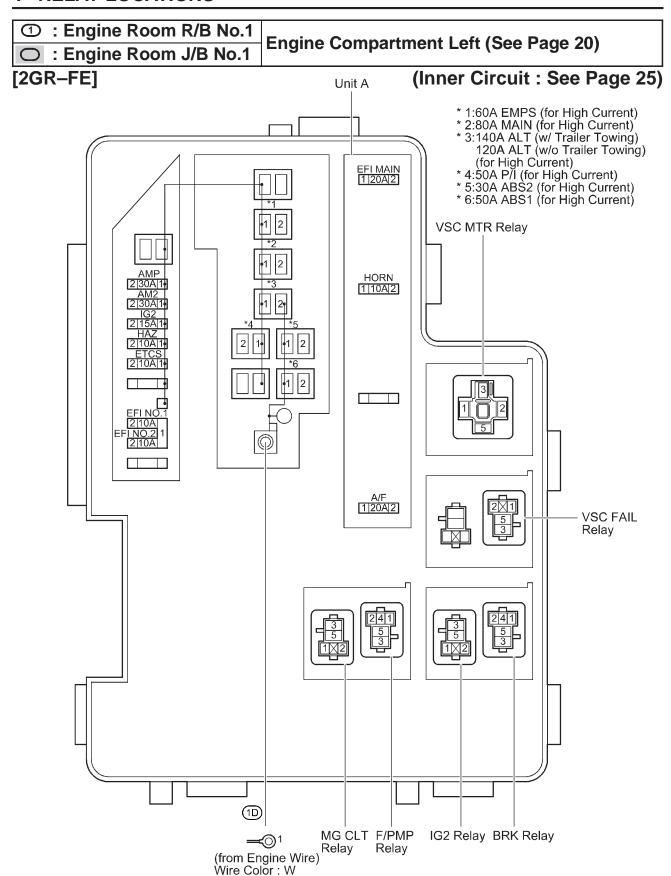


[Body]

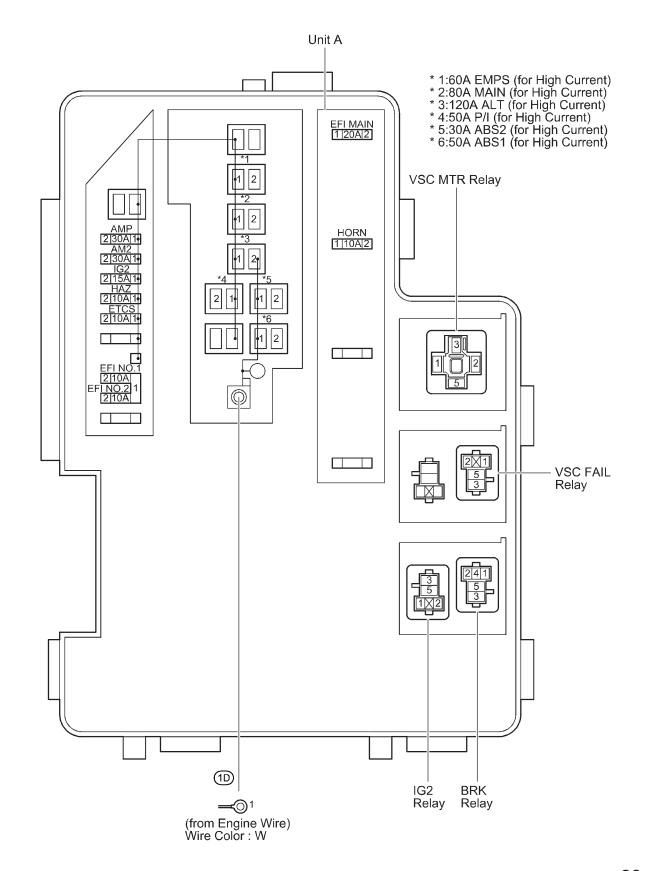


[Seat]





[2AZ-FE]

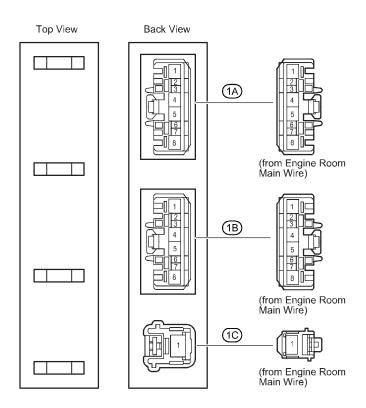


F RELAY LOCATIONS

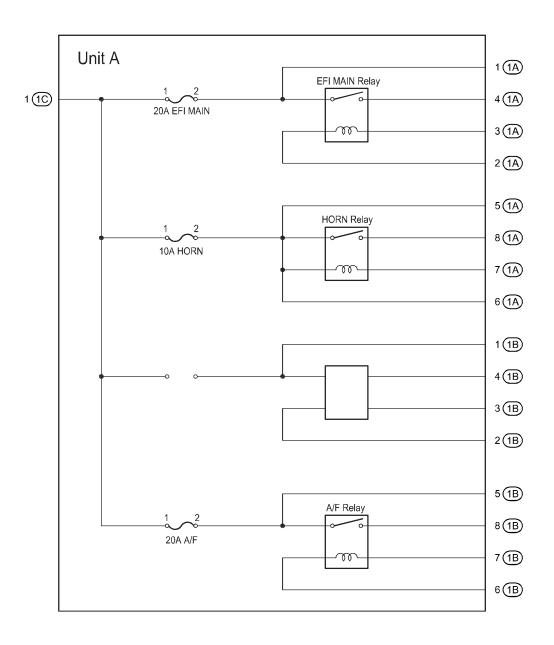
① : Engine Room R/B No.1	Engine Compartment Left (See Page 20)
: Engine Room J/B No.1	Engine Compartment Left (See Page 20)

(Inner Circuit : See Page 25)

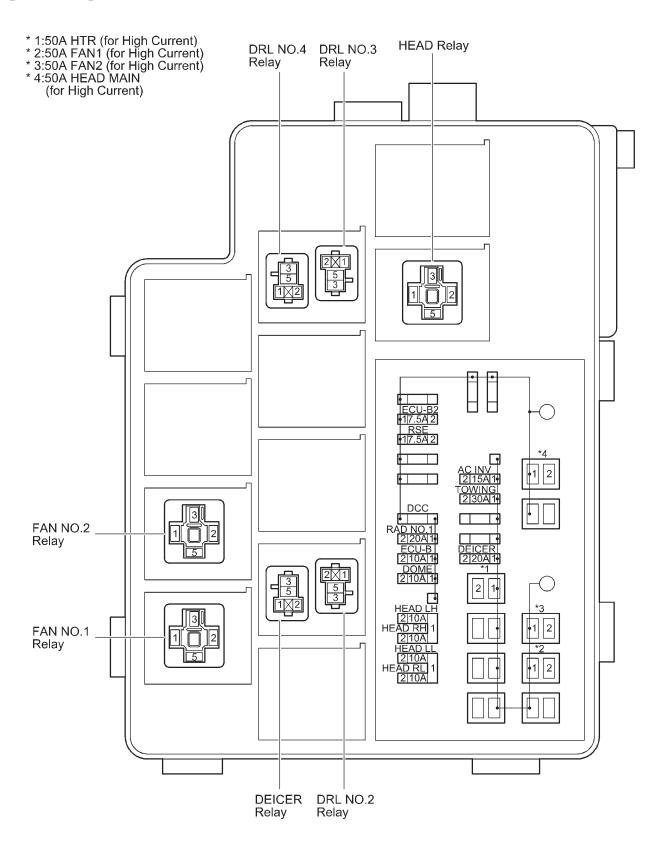
Unit A



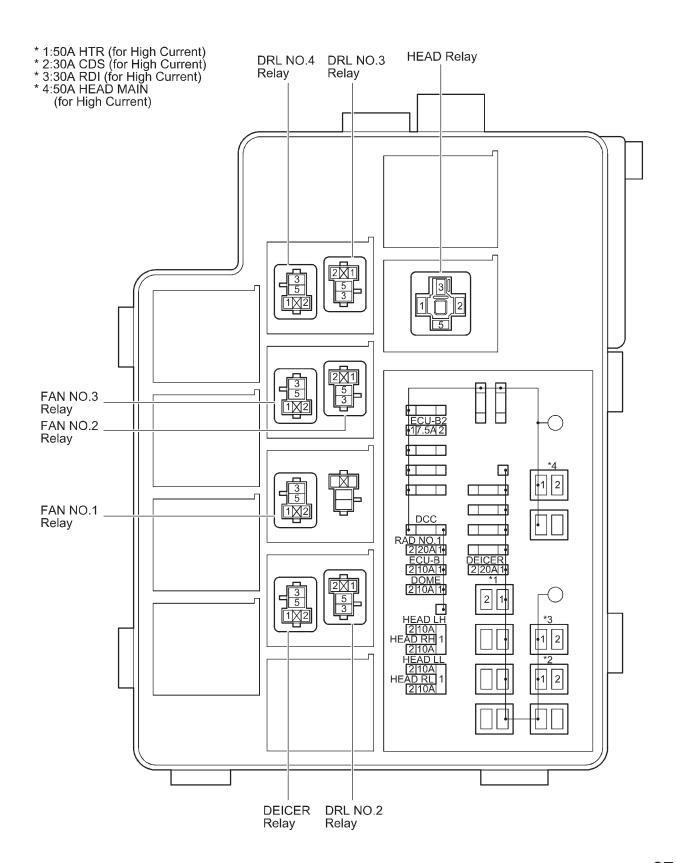
[Engine Room J/B No.1 Inner Circuit]



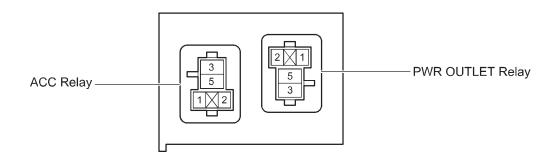
②: Engine Room R/B No.2 | Engine Compartment Right (See Page 20) [2GR-FE]



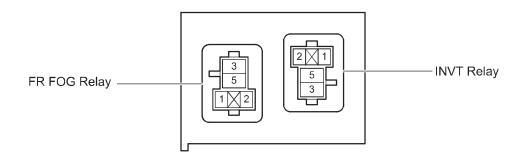
[2AZ-FE]



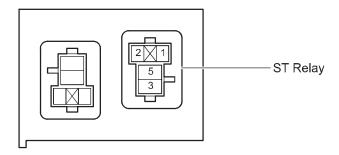
⑤ : R/B No.5	Cowl Side Left (See Page 20)

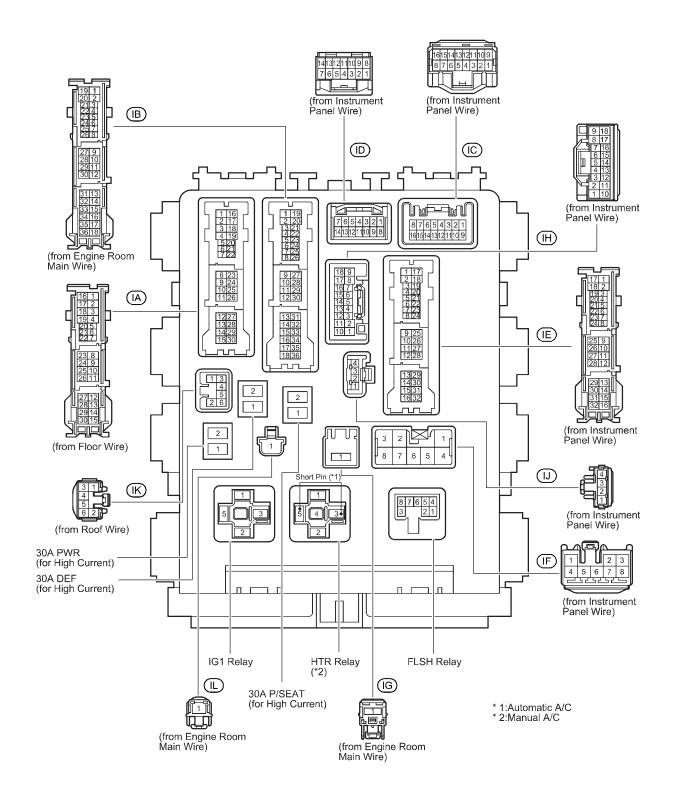


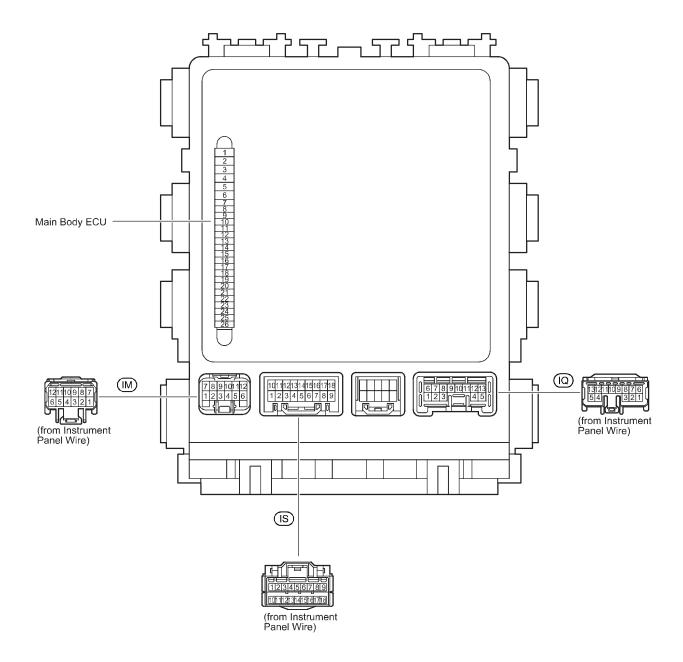
⑥ : R/B No.6	Cowl Side Left (See Page 20)	
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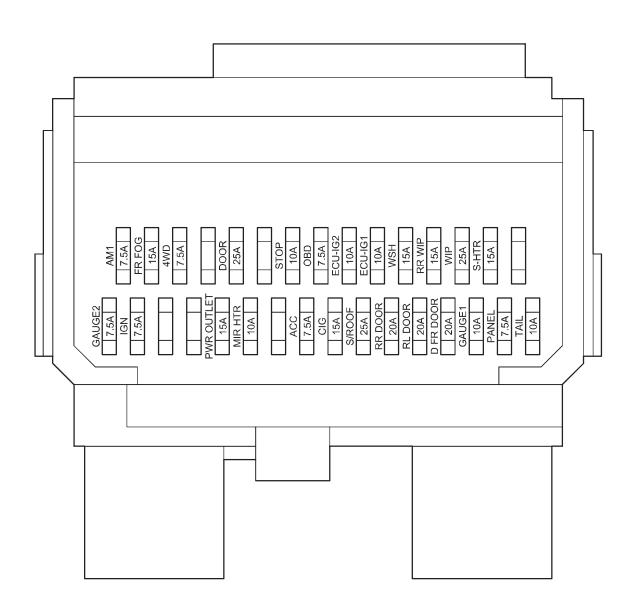
Ì	①: R/B No.7	Cowl Side Left (See Page 20)



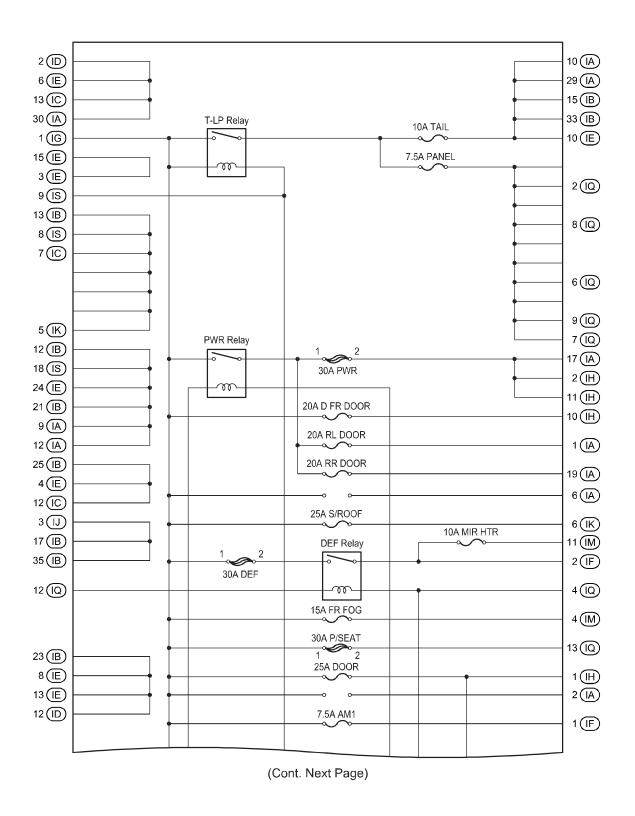


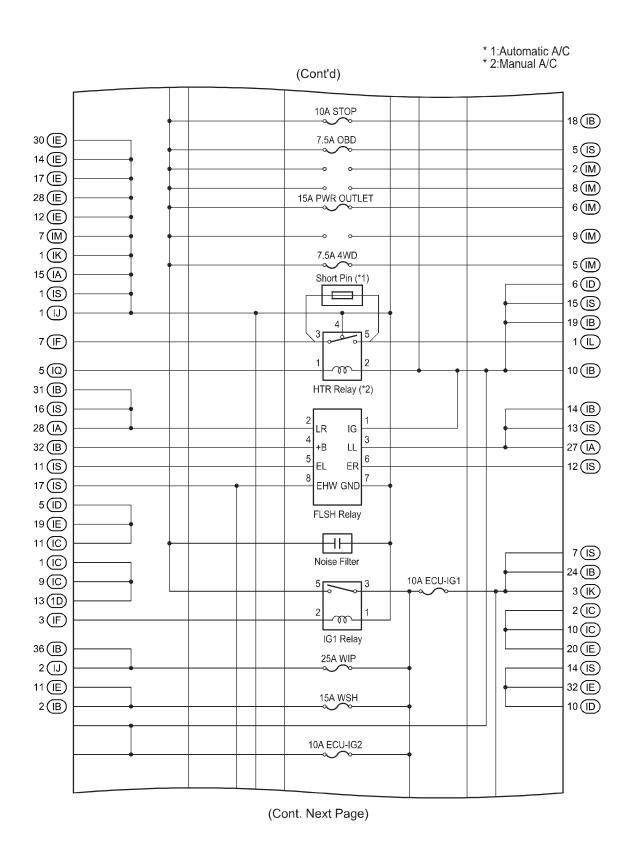


: Instrument Panel J/B Cowl Side Left (See Page 20)

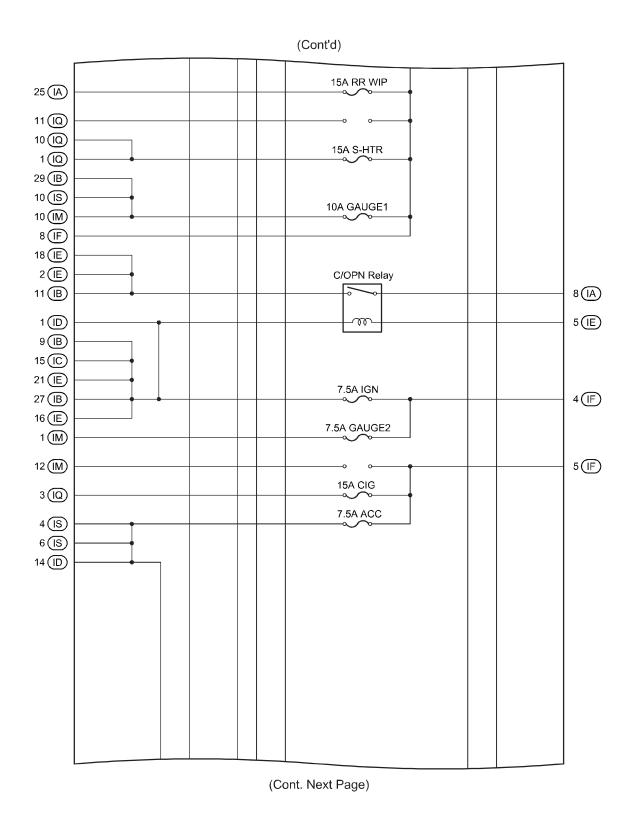


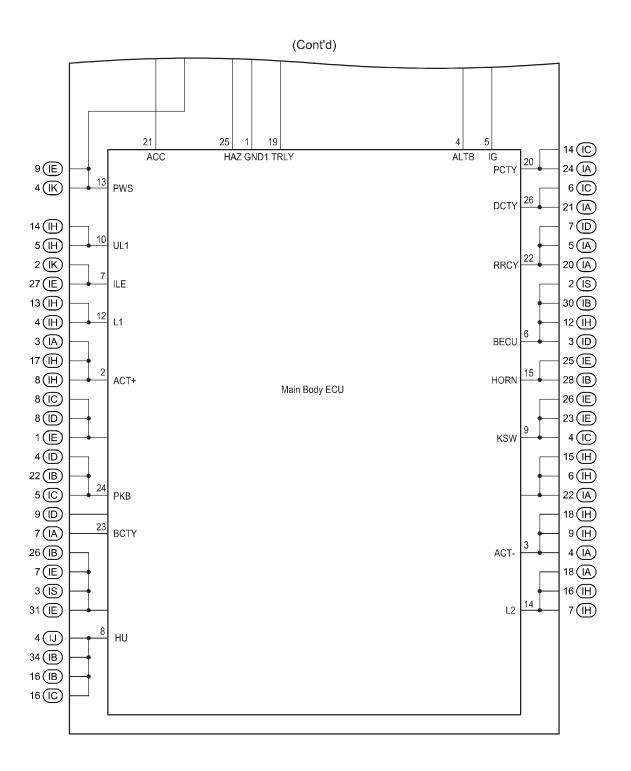
[Instrument Panel J/B Inner Circuit]



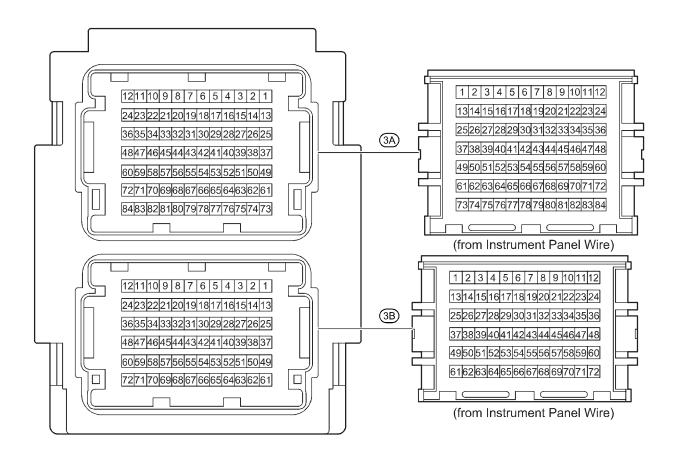


[Instrument Panel J/B Inner Circuit]

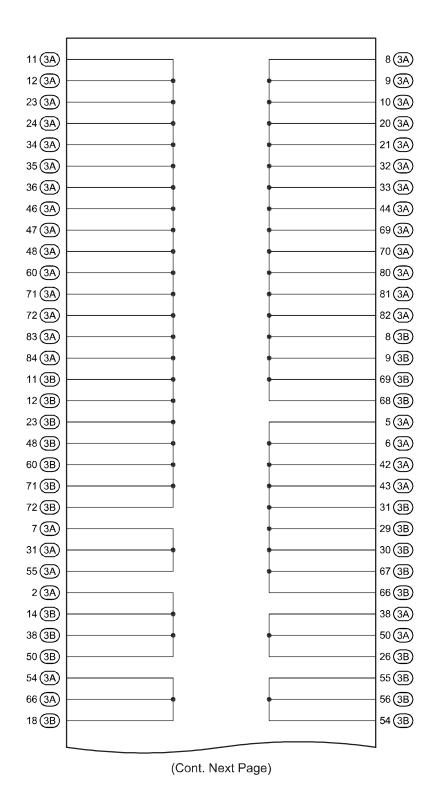


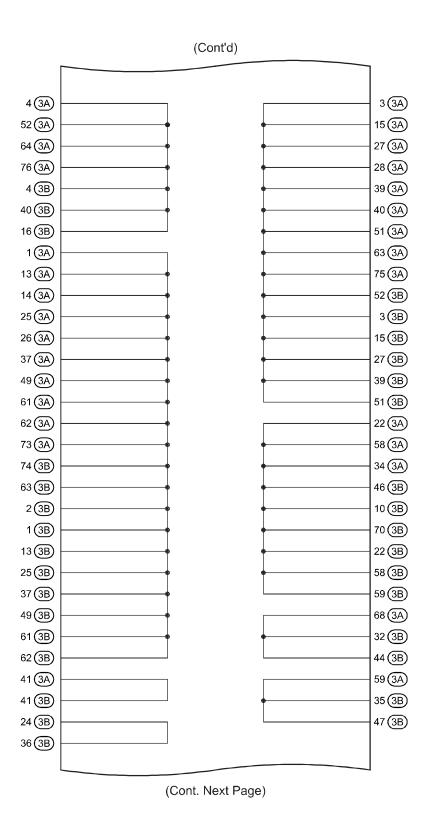


○ : J/B No.3 Instrument Panel Center (See Page 20)

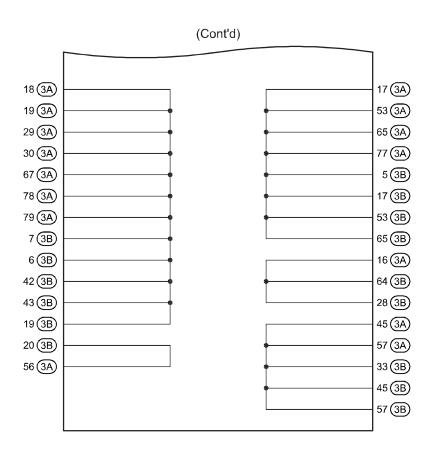


[J/B No.3 Inner Circuit]

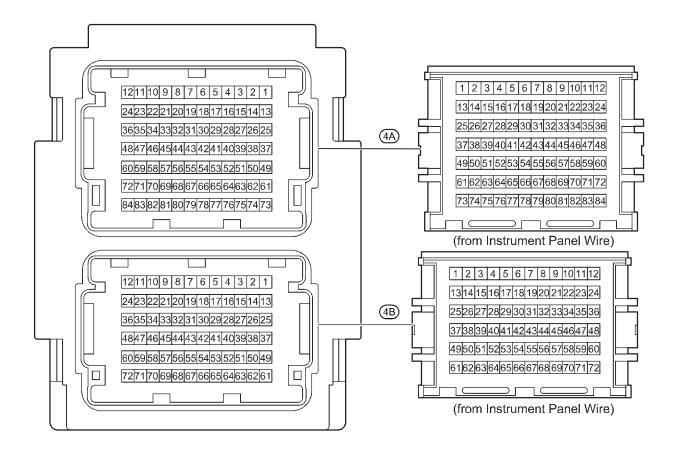




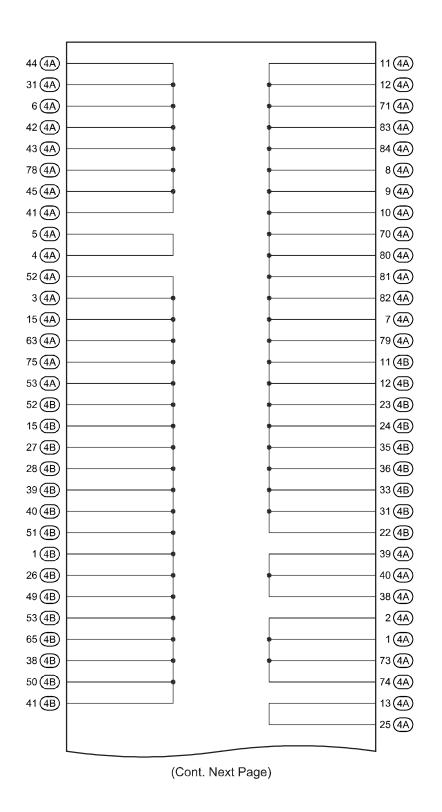
[J/B No.3 Inner Circuit]

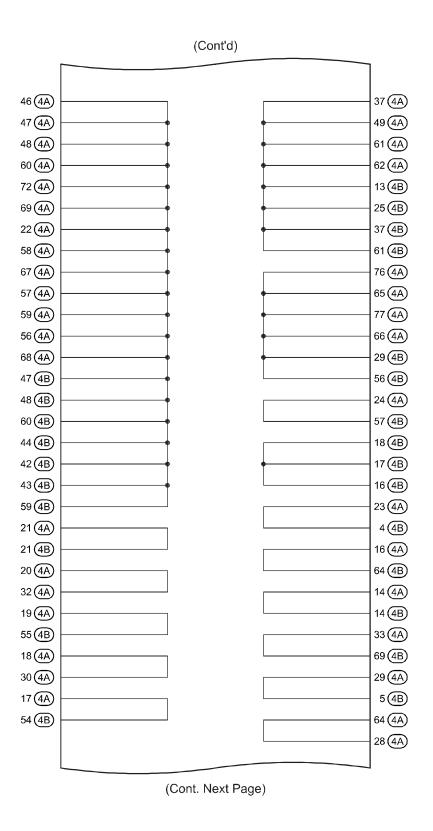


○ : J/B No.4 Instrument Panel Center (See Page 20)

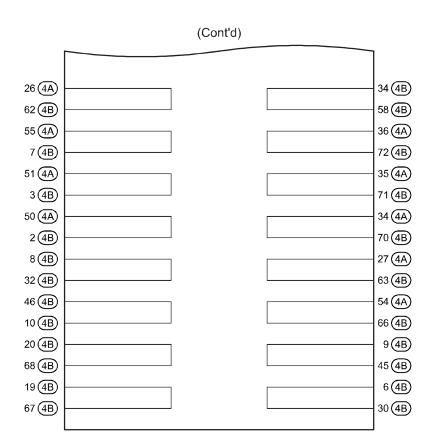


[J/B No.4 Inner Circuit]

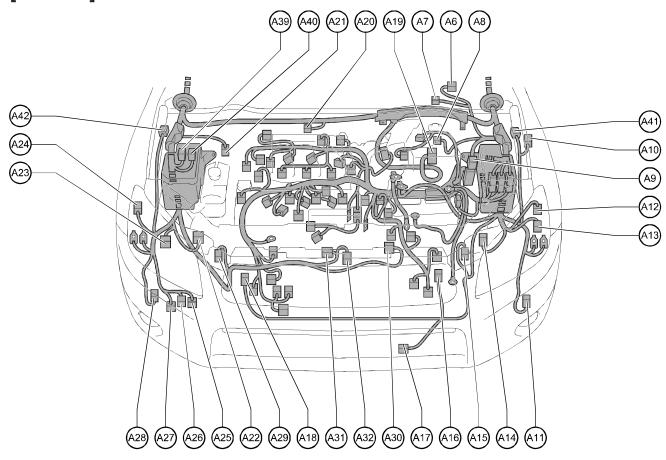




[J/B No.4 Inner Circuit]



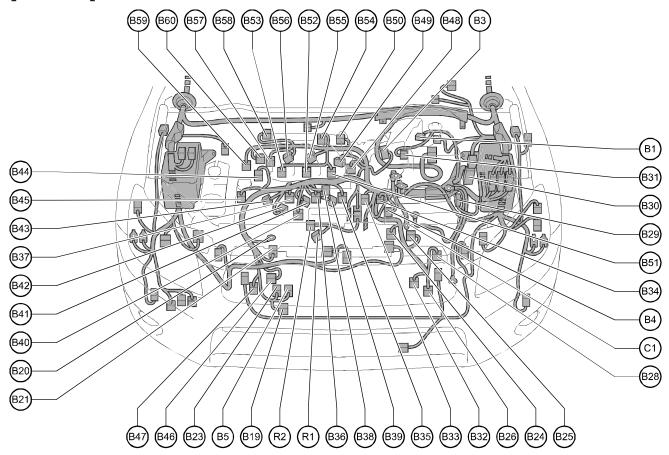
[2GR-FE]



- A 6 Windshield Wiper Motor
- A 7 Front Wiper Deicer
- A 8 Brake Fluid Level Warning SW
- A 9 Engine Control Module
- A10 Wireless Door Lock Buzzer
- A 11 Fog Light (Front LH)
- A12 Side Marker Lamp (Front LH)
 Turn Signal Lamp (Front LH)
- A13 Headlamp (LH Low)
- A14 Headlamp (LH High)
- A15 Airbag Sensor (Front LH)
- A16 Horn (Low)
- A17 Ambient Temp. Sensor
- A18 Horn (High)
- A19 Skid Control ECU with Actuator
- A20 Fuel Pump Resistor
- A21 A/C Pressure Sensor

- A22 Headlamp (RH High)
- A 23 Headlamp (RH Low)
- A 24 Side Marker Lamp (Front RH) Turn Signal Lamp (Front RH)
- A 25 Rear Washer Motor
- A26 Washer Level Warning SW
- A27 Front Washer Motor
- A28 Fog Light (Front RH)
- A29 Airbag Sensor (Front RH)
- A30 Cooling Fan ECU
- A31 Cooling Fan ECU (RH)
- A32 Cooling Fan ECU (LH)
- A39 Junction Connector
- A40 Junction Connector
- A41 Speed Sensor (Front LH)
- A42 Speed Sensor (Front RH)

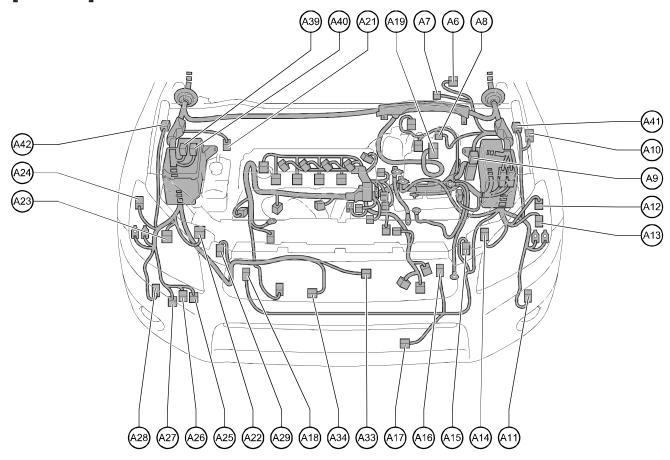
[2GR-FE]



- B 1 Mass Air Flow Meter
- B 3 Throttle Body Assembly
- B 4 Engine Coolant Temp. Sensor
- B 5 Engine Oil Pressure SW
- B19 Heated Oxygen Sensor (Bank 2 Sensor 2)
- B20 Generator
- **B21** Generator
- B23 A/C Compressor
- B24 Transmission Revolution Sensor (Counter Gear)
- B25 Starter
- B26 Park/Neutral Position SW
- B28 Transmission Revolution Sensor (Turbine)
- B29 Battery Current Sensor
- **B30** Engine Control Module
- B31 VSV (Air Intake Control)
- B32 Electronically Controlled Transmission Solenoid
- B33 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
- B34 VSV (Purge)
- B35 Fuel Injector (No.6)
- B36 Fuel Injector (No.4)
- B37 Fuel Injector (No.2)
- B38 Noise Filter (Ignition LH)
- B39 Ignition Coil (No.6)
- B40 VVT Sensor (Bank 2 Exhaust Side)
- B41 Ignition Coil (No.4)

- B42 Ignition Coil (No.2)
- B43 Camshaft Timing Oil Control Valve (LH Exhaust Side)
- B44 Camshaft Timing Oil Control Valve (LH Intake Side)
- B45 VVT Sensor (Bank 2 Intake Side)
- B46 Crankshaft Position Sensor
- B47 A/C Compressor
- B48 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
- B49 Ignition Coil (No.5)
- B50 Noise Filter (Ignition RH)
- B51 Fuel Injector (No.5)
- B52 Fuel Injector (No.3)
- B53 Fuel Injector (No.1)
- B54 VVT Sensor (Bank 1 Exhaust Side)
- B55 Ignition Coil (No.3)
- B56 Ignition Coil (No.1)
- B57 Camshaft Timing Oil Control Valve (RH Exhaust Side)
- B58 VSV (ACIS)
- B59 VVT Sensor (Bank 1 Intake Side)
- B60 Camshaft Timing Oil Control Valve (RH Intake Side)
- C 1 Starter
- R 1 Knock Control Sensor (Bank 2)
- R 2 Knock Control Sensor (Bank 1)

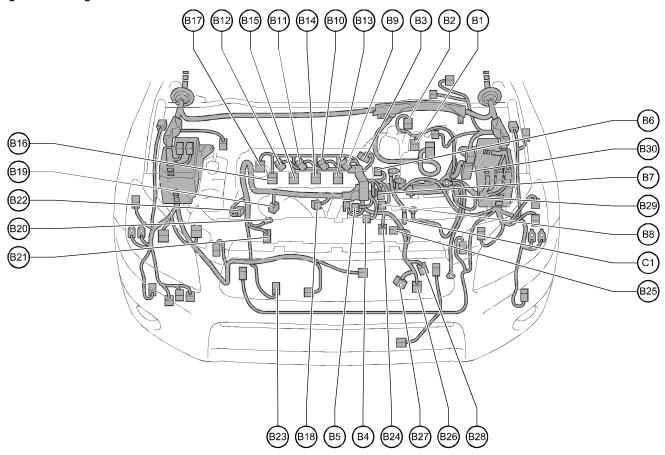
[2AZ-FE]



- A 6 Windshield Wiper Motor
- A 7 Front Wiper Deicer
- A 8 Brake Fluid Level Warning SW
- A 9 Engine Control Module
- A10 Wireless Door Lock Buzzer
- A 11 Fog Light (Front LH)
- A12 Side Marker Lamp (Front LH)
 Turn Signal Lamp (Front LH)
- A13 Headlamp (LH Low)
- A14 Headlamp (LH High)
- A15 Airbag Sensor (Front LH)
- A16 Horn (Low)
- A17 Ambient Temp. Sensor
- A18 Horn (High)
- A 19 Skid Control ECU with Actuator
- A21 A/C Pressure Sensor

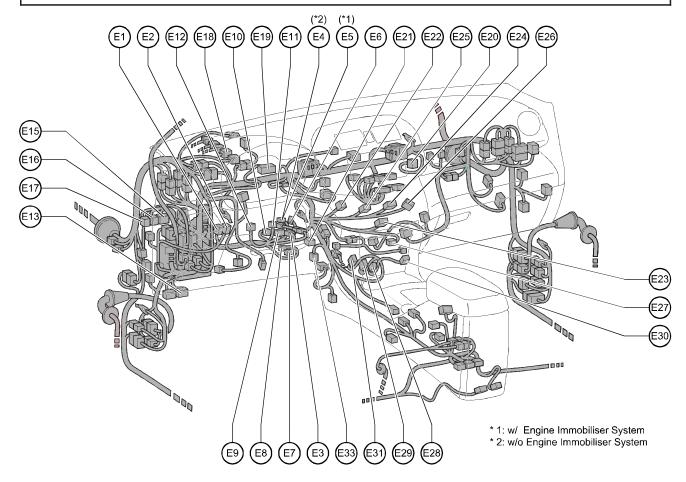
- A22 Headlamp (RH High)
- A23 Headlamp (RH Low)
- A 24 Side Marker Lamp (Front RH)
 Turn Signal Lamp (Front RH)
- A 25 Rear Washer Motor
- A26 Washer Level Warning SW
- A27 Front Washer Motor
- A28 Fog Light (Front RH)
- A 29 Airbag Sensor (Front RH)
- A33 Radiator Fan Motor
- A 34 A/C Condenser Fan Motor
- A39 Junction Connector
- A40 Junction Connector
- A41 Speed Sensor (Front RH)
- A42 Speed Sensor (Front LH)

[2AZ-FE]



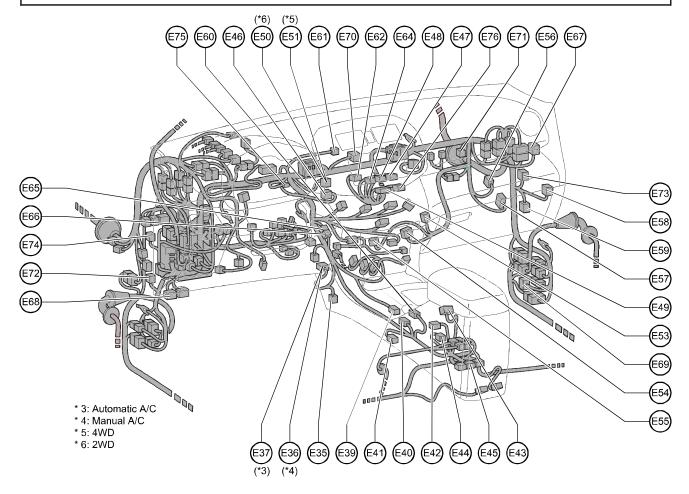
- B 1 Mass Air Flow Meter
- B 2 VSV (Purge)
- B 3 Throttle Body Assembly
- B 4 Engine Coolant Temp. Sensor
- B 5 Engine Oil Pressure SW
- B 6 Camshaft Position Sensor
- B 7 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
- B 8 Noise Filter (Ignition)
- B 9 Ignition Coil (No.4)
- B10 Ignition Coil (No.3)
- B 11 Ignition Coil (No.2)
- B12 Ignition Coil (No.1)
- B13 Fuel Injector (No.4)
- B14 Fuel Injector (No.3)
- B15 Fuel Injector (No.2)
- B16 Fuel Injector (No.1)

- B17 Camshaft Timing Oil Control Valve
- B18 Knock Control Sensor (Bank 1)
- B19 Heated Oxygen Sensor (Bank 2 Sensor 2)
- B20 Generator
- B21 Generator
- B22 Crankshaft Position Sensor
- B23 A/C Compressor
- B24 Transmission Revolution Sensor (Counter Gear)
- B25 Starter
- B26 Park/Neutral Position SW
- B27 Electronically Controlled Transmission Solenoid
- B28 Transmission Revolution Sensor (Turbine)
- B29 Battery Current Sensor
- B30 Engine Control Module
- C 1 Starter



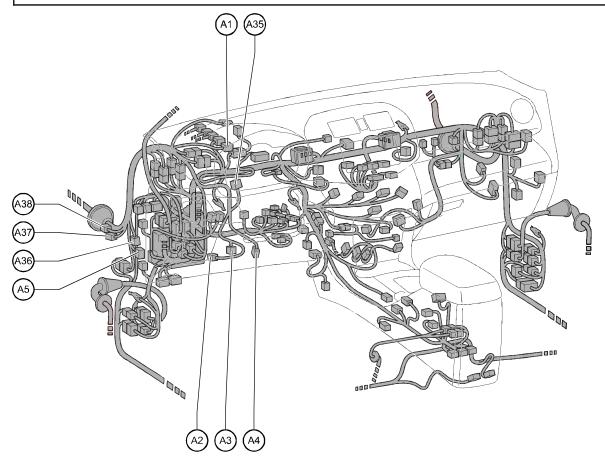
- E 1 Main SW
- E 2 Light Control Rheostat
- E 3 Ignition SW
- E 4 Ignition Key Cylinder Lamp
- E 5 Transponder Key Amplifier
- E 6 Unlock Warning SW
- E 7 Spiral Cable
- E 8 Airbag Squib (Steering Wheel Pad)
- E 9 Windshield Wiper SW Assembly
- E 10 Windshield Wiper SW Assembly
- E 11 Steering Sensor
- E12 Headlamp Dimmer SW Assembly
- E13 Data Link Connector 3
- E15 Main Body ECU
- E16 Main Body ECU
- E17 Main Body ECU

- E18 Power Steering ECU
- E19 Combination Meter
- E 20 Hazard Warning Signal SW
- E21 A/C Room Temp. Sensor
- E22 Clock
- E23 Integration Control and Panel Assembly
- E24 Integration Control and Panel Assembly
- E25 Air Vent Mode Control SW
- E26 A/C SW
- E27 Front Console Illumination
- E28 Front Wiper Deicer SW
- E 29 Seat Heater SW
- E30 Power Outlet Socket (Front)
- E31 Downhill Assist Control SW
- E33 A/C Thermistor



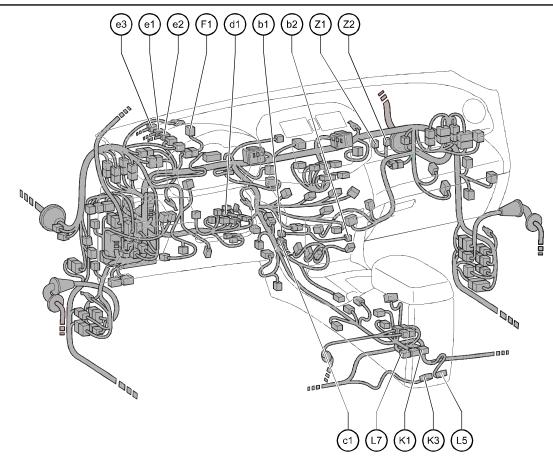
- E35 Heated Oxygen Sensor (Bank 1 Sensor 2)
- E36 A/C Amplifier
- E37 A/C Amplifier
- E39 Shift Lock Control ECU
- E40 Transmission Control SW
- E41 Parking Brake SW
- E42 Outer Mirror SW
- E43 Power Outlet Socket (Front)
- E44 Stereo Jack Adapter
- E45 Airbag Sensor Assembly Center
- E46 Transponder Key ECU
- E47 Radio Receiver Assembly
- E48 Radio Receiver Assembly
- E 40 Dadio Desciver Assembly
- E49 Radio Receiver Assembly
- E50 4WD Control SW
- E51 Auto LSD SW
- E53 Blower Motor
- E54 Blower Motor
- E55 Blower Resistor
- E56 Tire Pressure Warning ECU

- E57 4WD Control ECU
- E58 Option Connector (TVIP)
- E59 Option Connector (Bus Buffer)
- E60 A/T Shift Lever Illumination
- E61 Damper Servo Motor (Air Inlet)
- E62 Radio Receiver Assembly
- E64 Radio Receiver Assembly
- E65 Short Connector
- E66 Short Connector
- E67 Junction Connector
- E68 Junction Connector
- E69 Junction Connector
- E70 Junction Connector
- E71 Diode (Rear Wiper)
- E72 Diode (Inverter)
- E73 Junction Connector
- E74 Junction Connector
- E75 Diode (Heater)
- E76 Radio Receiver Assembly



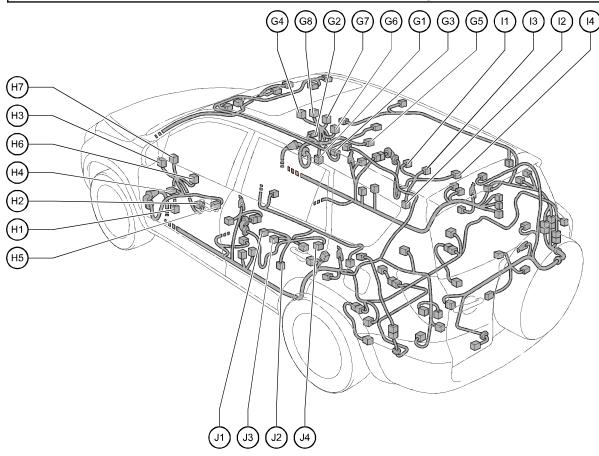
- A 1 Power Steering ECU
- A 2 Brake Pedal Load Sensing SW
- A 3 Stop Lamp SW
- A 4 Accelerator Position Sensor
- A 5 Trailer Socket

- A35 Junction Connector
- A36 Junction Connector
- A37 Junction Connector
- A38 Junction Connector



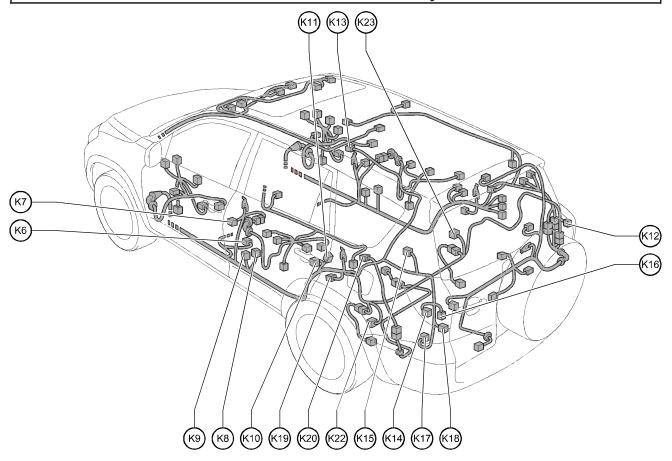
- F 1 A/C Solar Sensor
- K 1 Airbag Sensor Assembly Center
- K 3 Power Outlet Socket (115V)
- L 5 Video Terminal
- L 7 Airbag Sensor Assembly Center
- Z 1 Airbag Squib (Front Passenger's Airbag Assembly)
- Z 2 Airbag Squib (Front Passenger's Airbag Assembly)
- b 1 Foot Lamp (Front LH)
- b 2 Foot Lamp (Front RH)

- c 1 A/C Amplifier A/C Blower Assembly
- d 1 Key Interlock Solenoid
- e 1 Power Steering ECU Power Steering Torque Sensor
- e 2 Power Steering ECU Rotation Angle Sensor
- e 3 Power Steering ECU Power Steering Motor



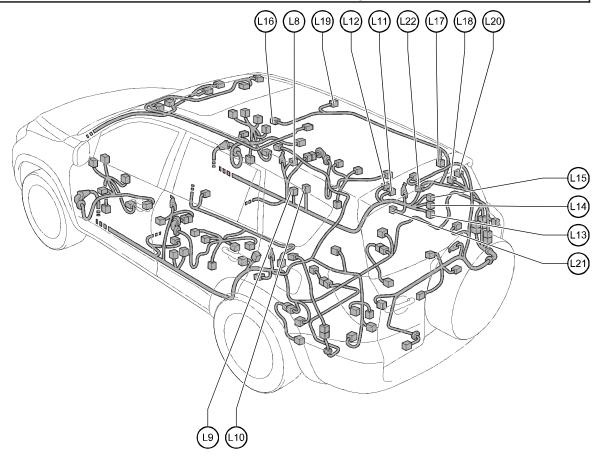
- G 1 Speaker (Front Door RH)
- G 2 Power Window Regulator Motor (Front RH)
- G 3 Power Window SW (Front Passenger's Side)
- G 4 Outer Rear View Mirror (RH)
- G 5 Door Lock Assembly (Front Passenger's Side)
- G 6 Door Lock Control SW (Front Passenger's Side)
- G 7 Tweeter (Front RH)
- G 8 Tweeter (Front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

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



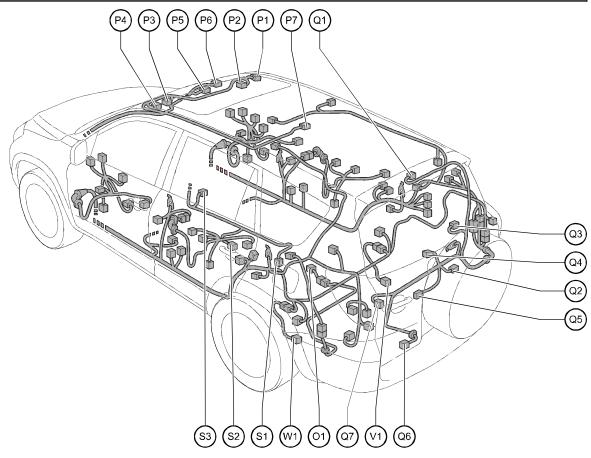
- K 6 Yaw Rate Sensor
- K 7 Door Courtesy SW (Front LH)
- K 8 Pretensioner (LH)
- K 9 Side Airbag Sensor (Front LH)
- K10 Door Courtesy SW (Rear LH)
- K 11 Side Airbag Sensor (Rear LH)
- K12 Rear Combination Lamp (RH)
- K13 Curtain Shield Airbag Squib (LH)
- K14 Rear Combination Lamp (LH)

- K15 Voltage Inverter
- K16 Diode (Room Lamp)
- K17 Power Outlet Socket (Rear)
- K18 Door Courtesy SW (Back Door)
- K19 Junction Connector
- K20 Junction Connector
- K22 Speed Sensor (Rear LH)
- K23 Speed Sensor (Rear RH)



- L 8 Door Courtesy SW (Front RH)
- L 9 Pretensioner (RH)
- L 10 Side Airbag Sensor (Front RH)
- L 11 Door Courtesy SW (Rear RH)
- L 12 Side Airbag Sensor (Rear RH)
- L 13 Stereo Component Amplifier
- L 14 Stereo Component Amplifier
- L 15 Stereo Component Amplifier

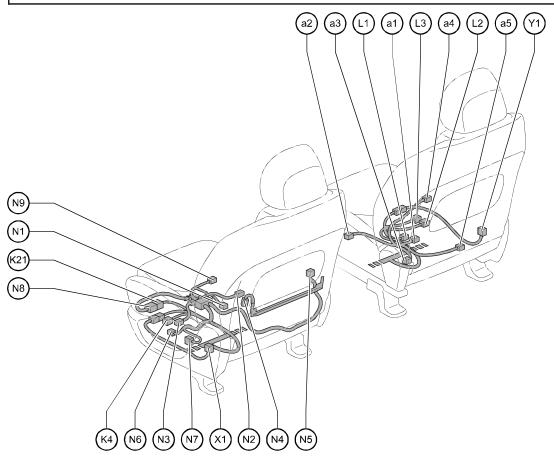
- L 16 Rear Seat Entertainment Display
- L 17 Curtain Shield Airbag Squib (RH)
- L 18 Door Control Receiver
- L 19 Curtain Shield Airbag Squib (RH)
- L 20 Tire Pressure Waning Antenna and Receiver
- L 21 Junction Connector
- L 22 Junction Connector



- O 1 4WD Linear Solenoid
- P 1 Vanity Lamp SW (RH)
- P 2 Vanity Lamp (RH)
- P 3 Vanity Lamp (LH)
- P 4 Vanity Lamp SW (LH)
- P 5 Overhead J/B
- P 6 Sliding Roof Control ECU
- P 7 Room Lamp (Front)
- Q 1 Center Stop Lamp
- Q 2 Rear Window Defogger
- Q 3 Room Lamp Rear (Rear)
- Q 4 Rear Wiper Motor
- Q 5 Speaker (Woofer)
- Q 6 License Plate Lamp
- Q 7 Back Door Lock Assmbly

- S 1 Fuel Suction Pump
- S 2 Fuel Sender Gage
- S 3 Canister Pump Module
- V 1 Speed Sensor (Rear RH)
- W 1 Speed Sensor (Rear LH)

Position of Parts in Seat



- K 4 Front Seat Inner Belt (Driver's Side)
- K21 Junction Connector
- L 1 Occupant Classification ECU
- L 2 Front Seat Inner Belt (Front Passenger's Side)
- L 3 Seat Heater (RH)
- N 1 Power Seat Motor (Driver's Seat Slide Control)
- N 2 Power Seat Motor (Driver's Seat Lifter Control)
- N 3 Power Seat Motor (Driver's Seat Front Vertical Control)
- N 4 Power Seat Motor (Driver's Seat Reclining Control)
- N 5 Power Seat Motor (Driver's Seat Lumbar Support Control)
- N 6 Power Seat SW (Driver's Seat)
- N 7 Power Seat SW (Lumbar Support)
- N 8 Junction Connector
- N 9 Seat Heater (LH)

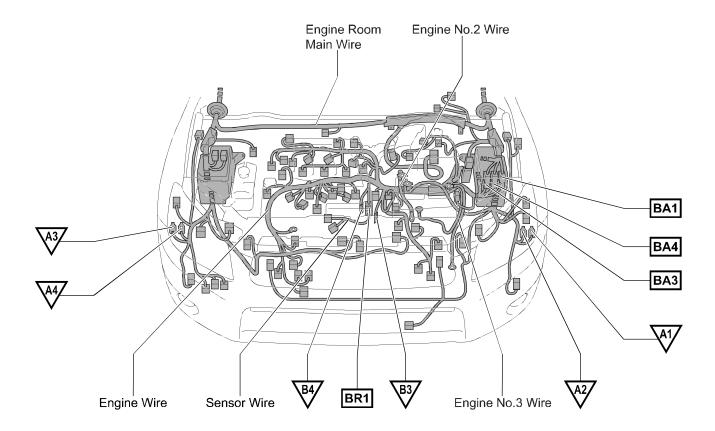
- X 1 Side Airbag Squib (LH)
- Y 1 Side Airbag Squib (RH)
- a 1 Occupant Classification ECU
- a 2 Occupant Classification Sensor (Front LH)
- a 3 Occupant Classification Sensor (Rear LH)
- a 4 Occupant Classification Sensor (Front RH)
- a 5 Occupant Classification Sensor (Rear RH)

G ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

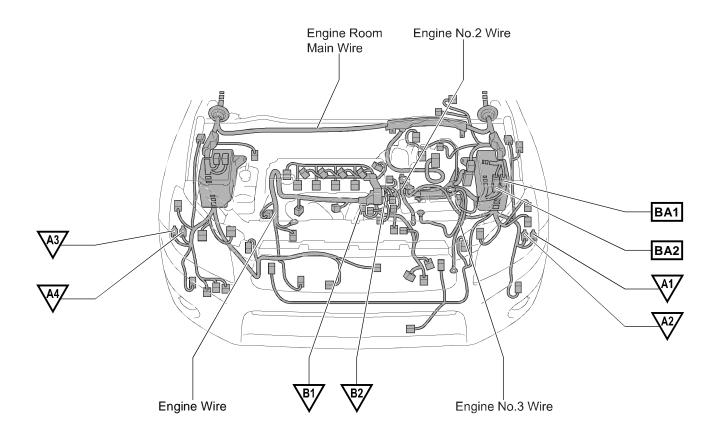
[2GR-FE]

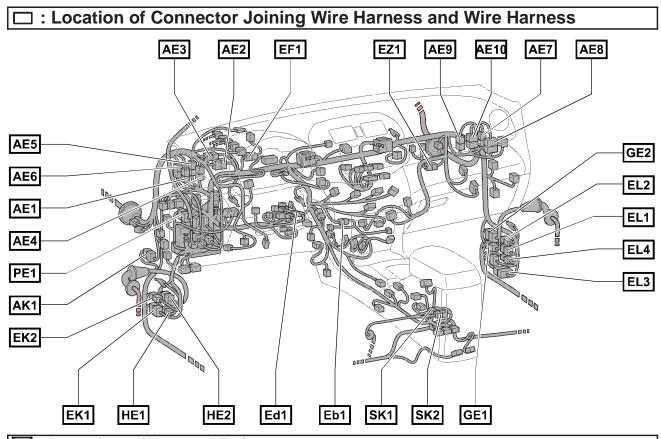


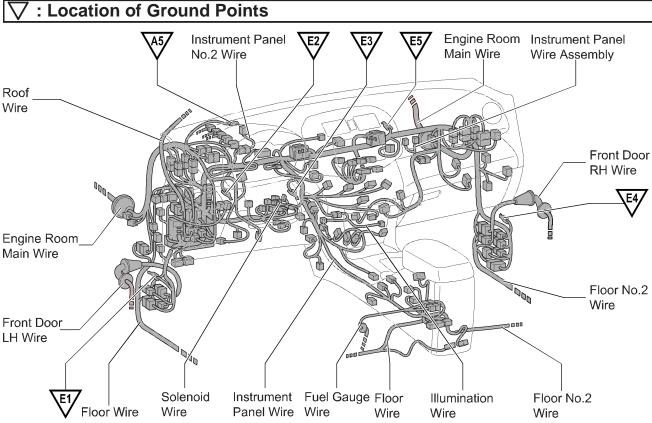
□ : Location of Connector Joining Wire Harness and Wire Harness

 \overline{igvee} : Location of Ground Points

[2AZ-FE]

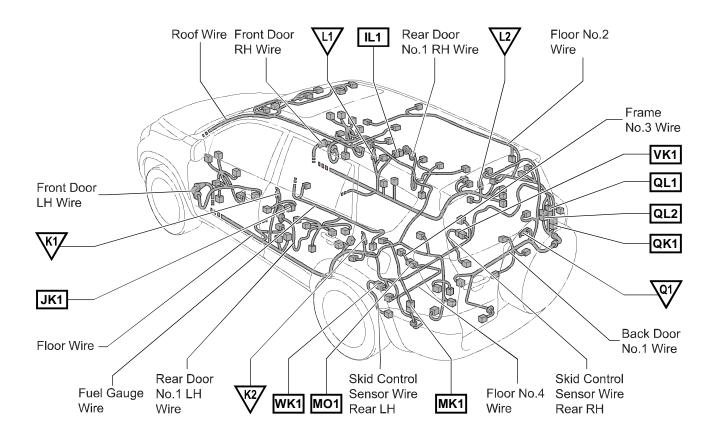




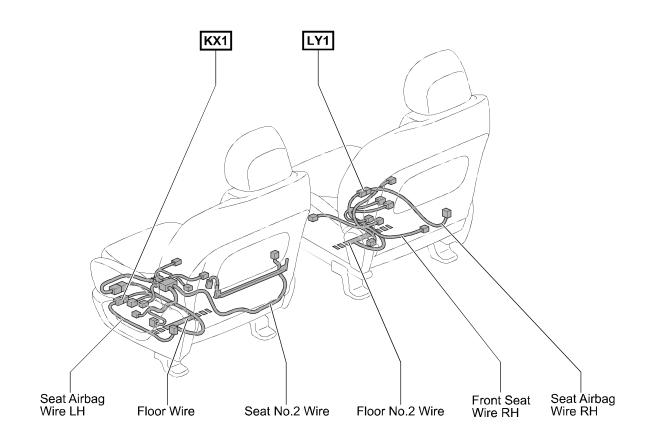


□ : Location of Connector Joining Wire Harness and Wire Harness

 $\overline{\lor}$: Location of Ground Points



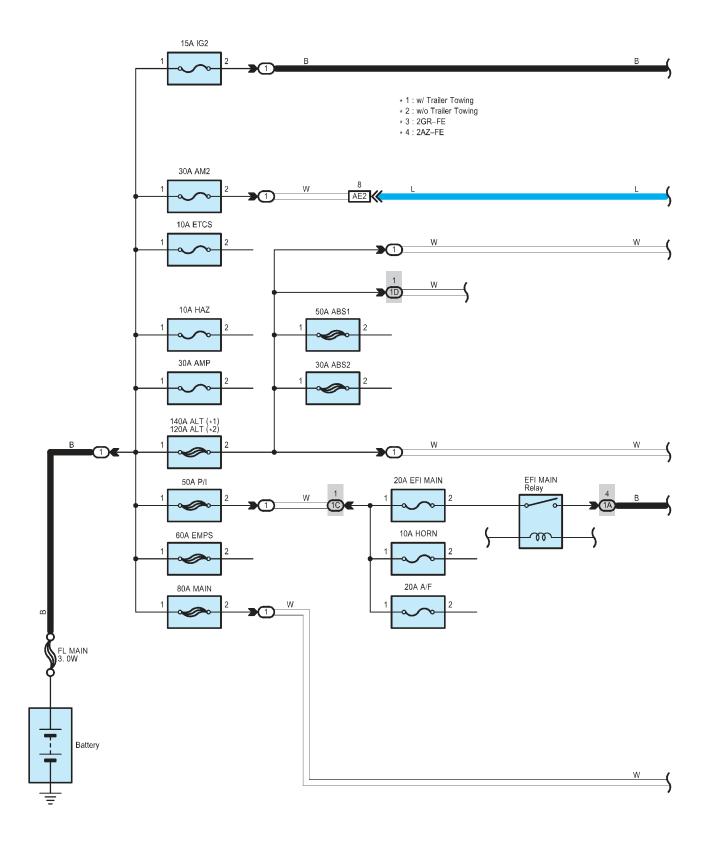
☐ : Location of Connector Joining Wire Harness and Wire Harness

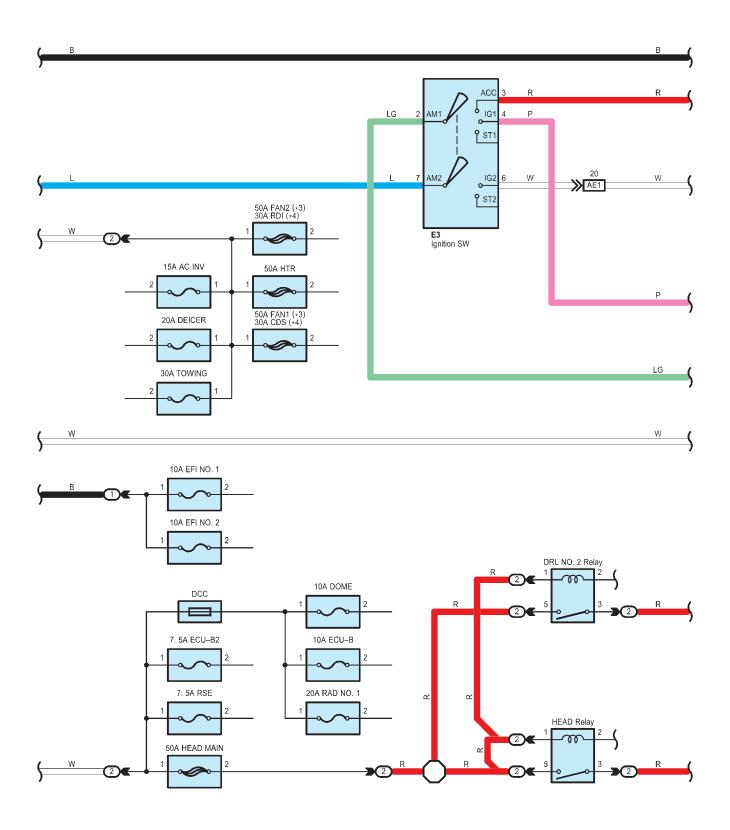


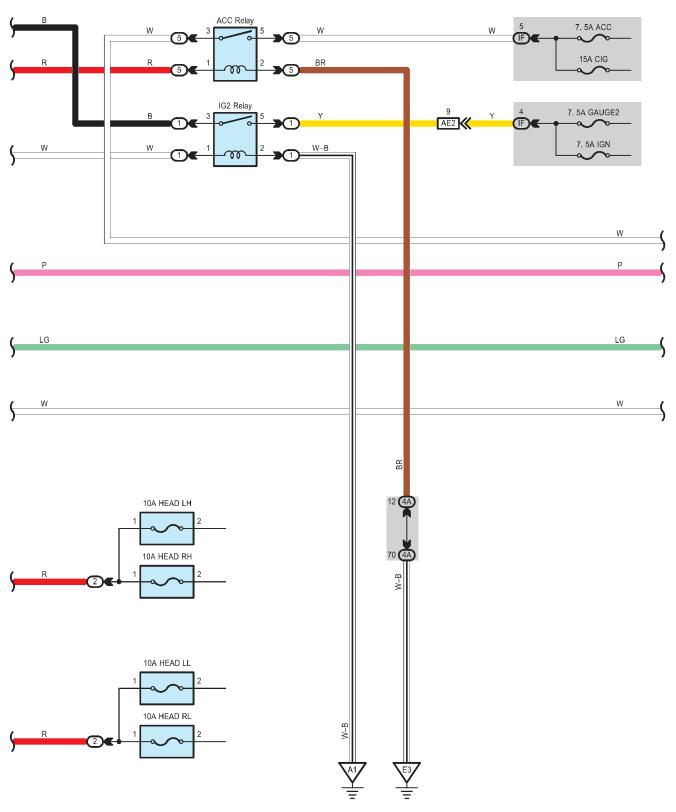
2007 RAV4 ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

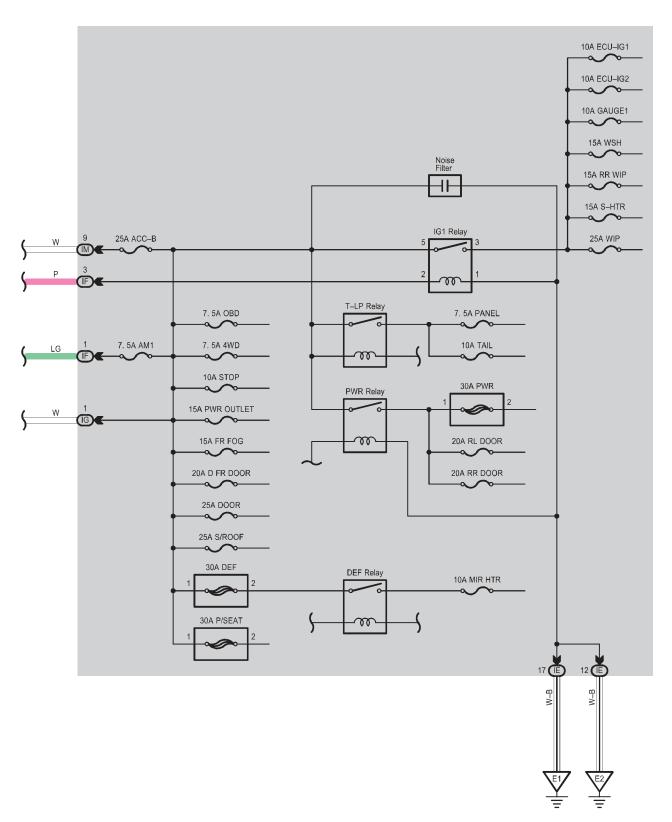
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Power Source

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E3	54				

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)	
'	23 (2AZ-FE)	Lingine Room Room (Engine Compartment Lett)	
2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)	
	27 (2AZ-FE)	Lingine Room V.D. Ro2 (Engine Compartment Right)	
5 28 R/B No.5 (Cowl Side Left)		R/B No.5 (Cowl Side Left)	

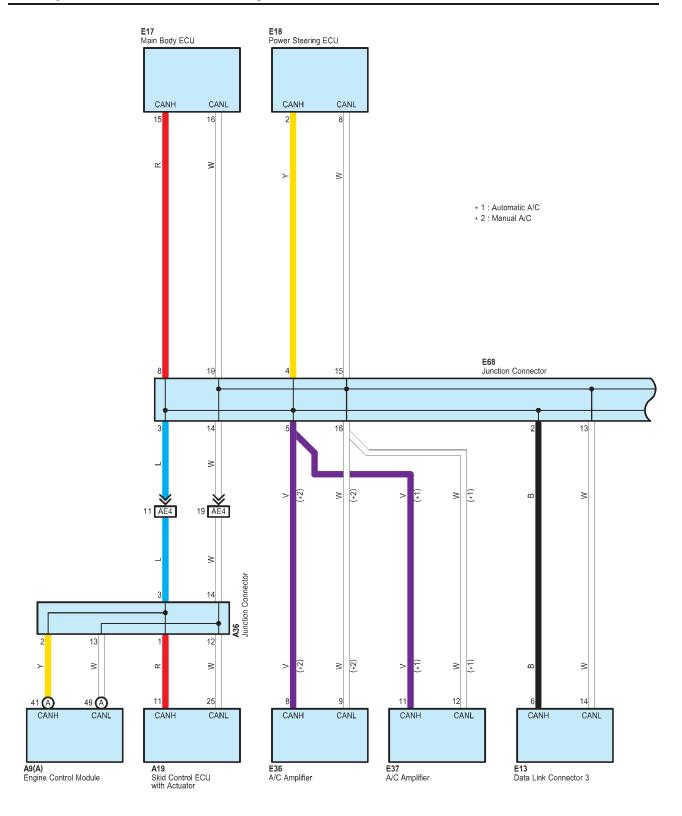
: Junction Block and Wire Harness Connector

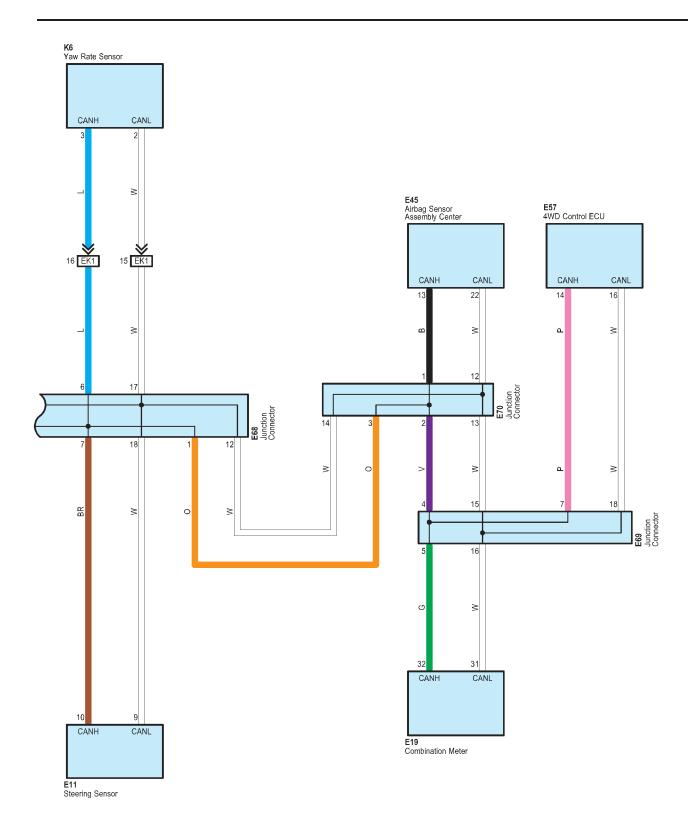
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
1C	24		
1D	22 (2GR-FE)	Engine Wire and Engine Room J/B (Engine Compartment Left)	
10	23 (2AZ-FE)	Lingine wire and Engine Room 3/B (Engine Compartment Left)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IF] 30	Institution Fallet Whe and institution Francisco (Cowi Side Lett)	
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IM	IM 31 Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
AE1	AE1 66	Engine Boom Main Wire and Instrument Bonel Wire (Left Cide of the Instrument Bonel)	
AE2	00	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	

Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
_ ^'	65 (2AZ-FE)	THORICERT GROOM	
E1	66	Left Kick Panel	
E2 66 Instrument Panel Reinforcement Left E3 66 Instrument Panel Reinforcement Center		Instrument Panel Reinforcement Left	
		Instrument Panel Reinforcement Center	





Multiplex Communication System – CAN

System Outline

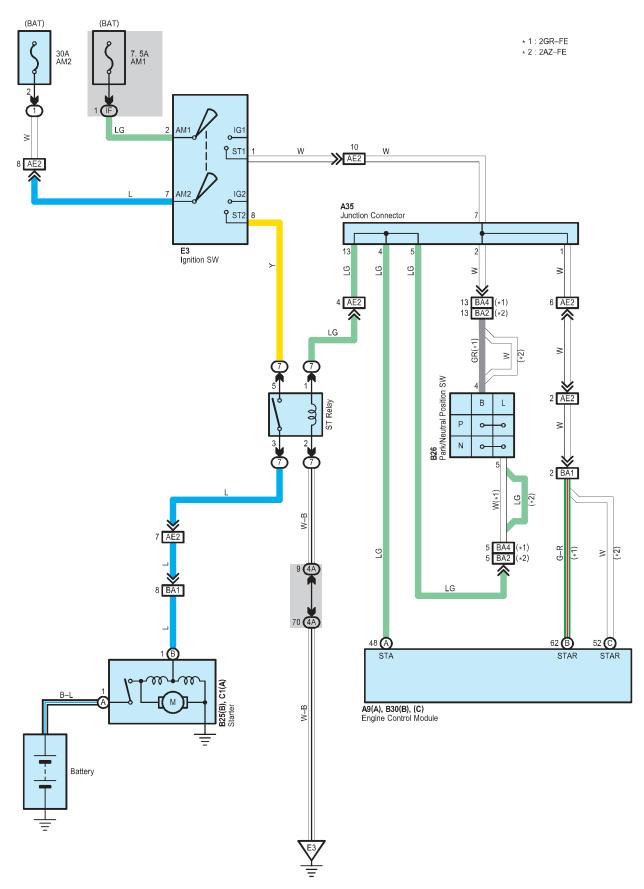
CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as 4WD control ECU, A/C amplifier, airbag sensor assembly center, combination meter, data link connector 3, engine control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

: Parts Location

Co	ode	See Page	Code	See Page	Code	See Page
A9	Α	50 (2GR-FE)	E13	54	E45	55
7.5	_ ^	52 (2AZ-FE)	E17	54	E57	55
Λ.	19	50 (2GR-FE)	E18	54	E68	55
^	19	52 (2AZ-FE)	E19	54	E69	55
A	36	56	E36	55	E70	55
E.	11	54	E37	55	K6	59

: Connector Joining Wire Harness and Wire Harness

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



: Parts Location

Co	de	See Page	Code		See Page	Code		See Page
A9	Α	50 (2GR-FE)	B25	В	53 (2AZ-FE)	B30	С	53 (2AZ-FE)
^3	_ ^	52 (2AZ–FE) B26		26	51 (2GR-FE)	C1 /	Α	51 (2GR-FE)
A:	35	56	620		53 (2AZ-FE)	O1		53 (2AZ-FE)
B25	В	51 (2GR-FE)	B30	В	51 (2GR-FE)	Е	3	54

: Relay Blocks

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

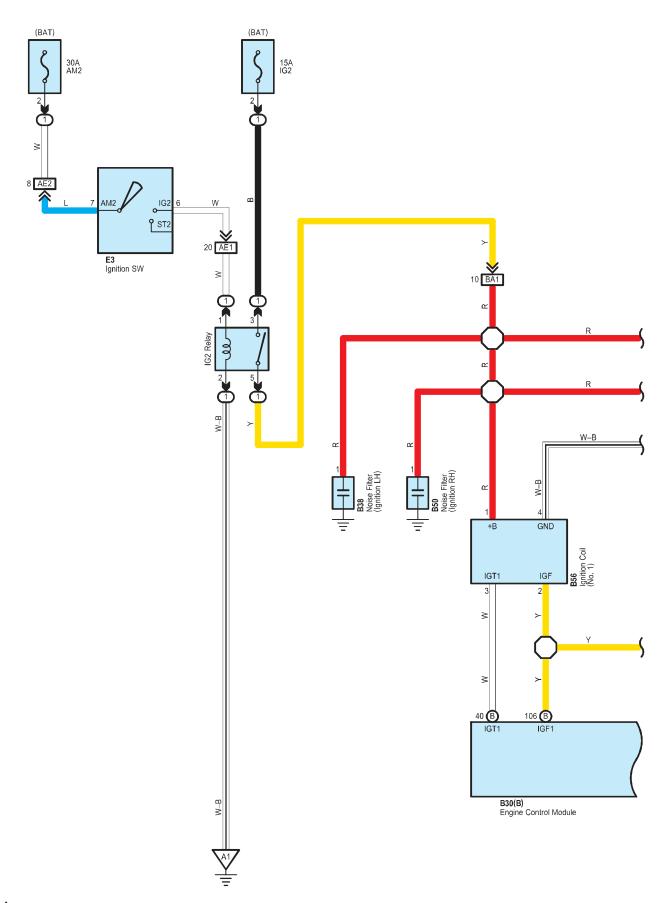
: Junction Block and Wire Harness Connector

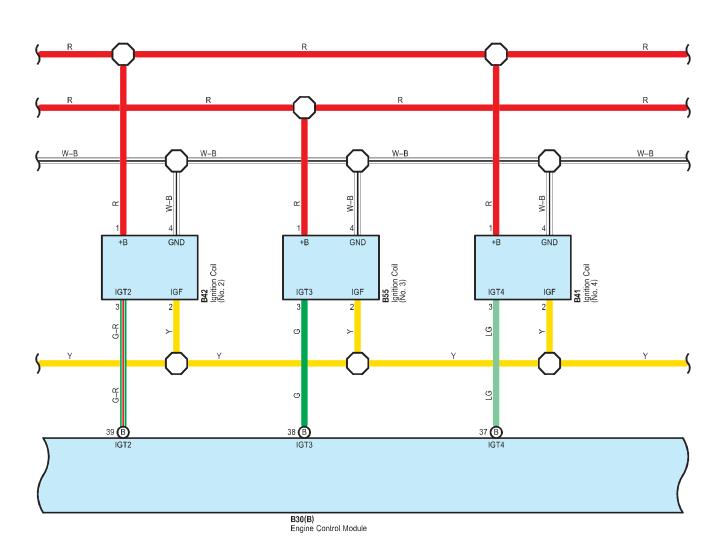
Code See Page Junction Block and Wire Harness (Connector Location)				
4A 44 Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		

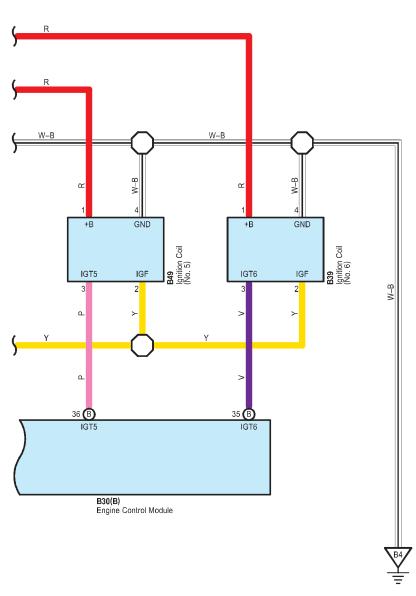
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
BA1	64 (2GR-FE)	
DAI	65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)
BA2	65 (2AZ-FE)	Engline Whe and Engline Room Main Whe (hiside of the Engline Room R/D No.) and Engline Room 3/D No. 1)
BA4	64 (2GR-FE)	

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







O : Parts Location

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

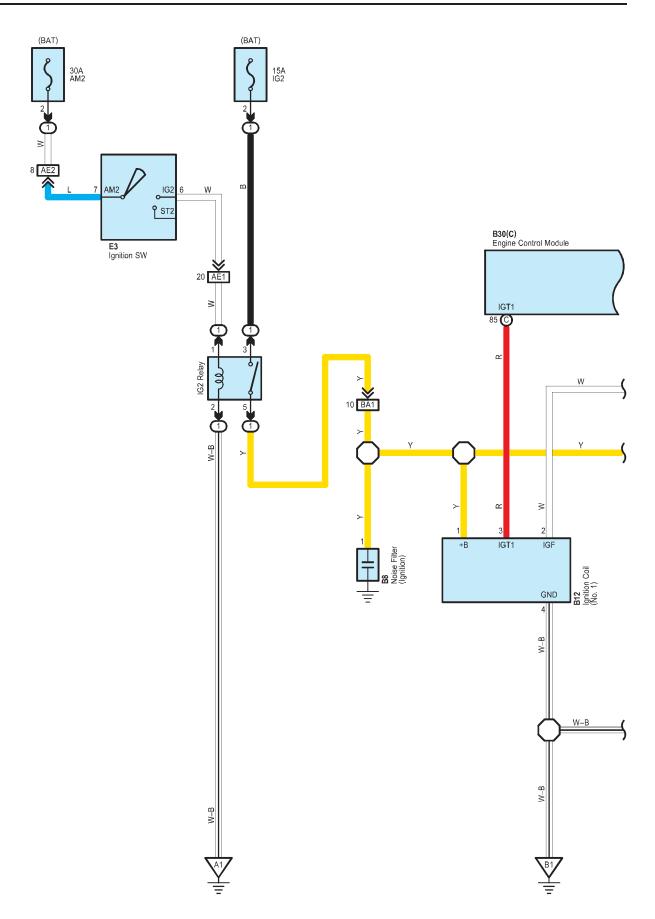
: Relay Blocks

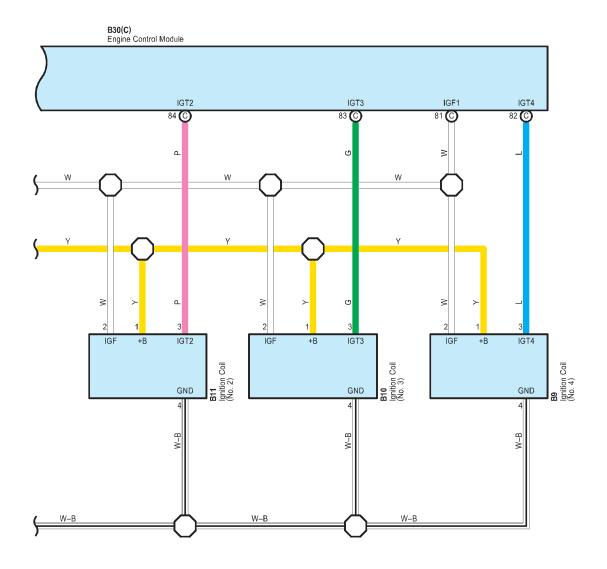
Code	See Page	Relay Blocks (Relay Block Location)
1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

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

	Code	See Page	Ground Points Location			
Γ	A1	64 (2GR-FE)	ront Left Fender			
Γ	B4	64 (2GR-FE)	eft Side of the Cylinder Head			





Ignition for 2AZ-FE

: Parts Location

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

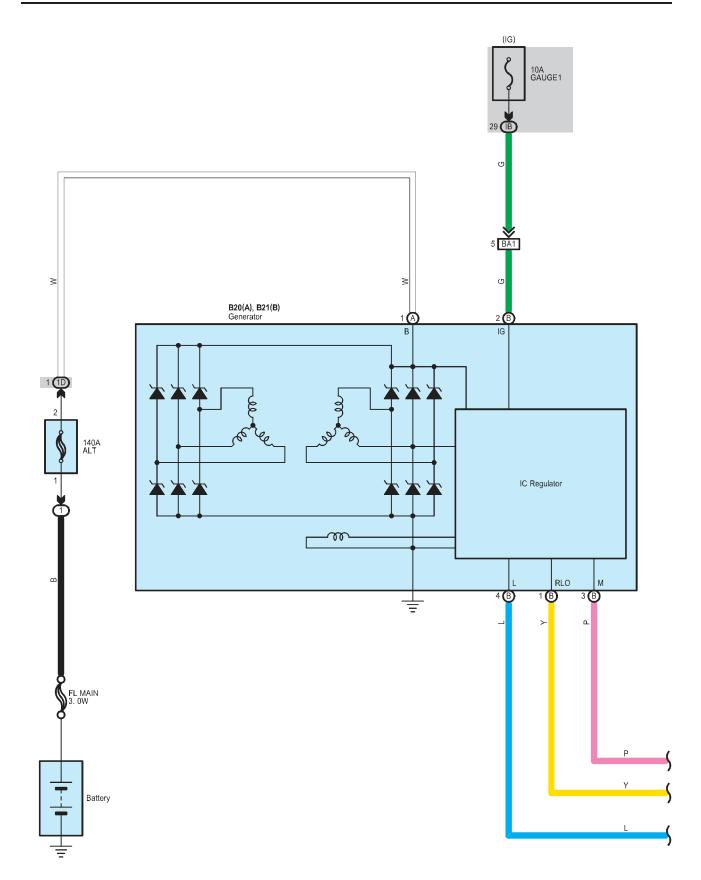
: Relay Blocks

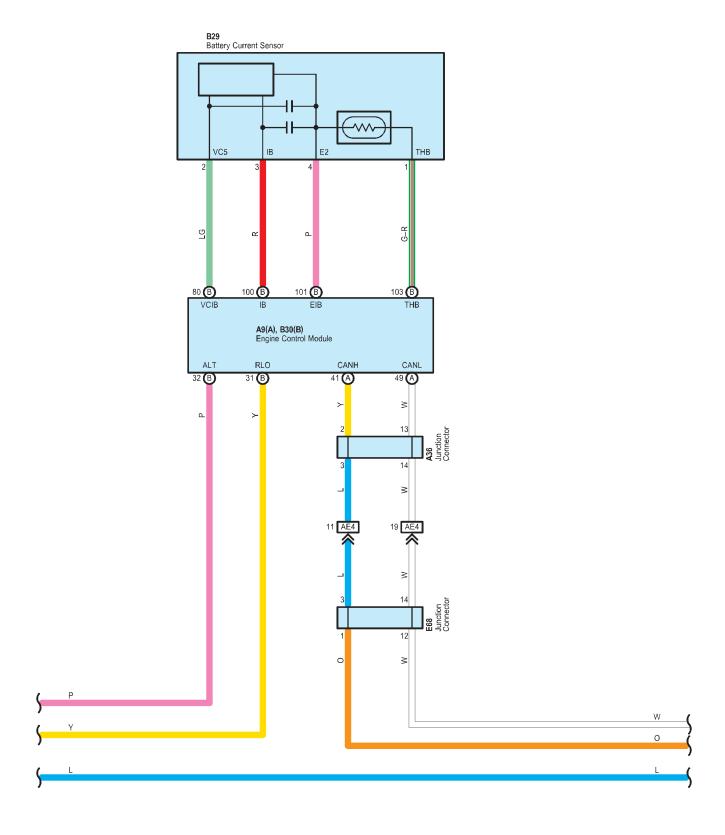
Code	See Page	Relay Blocks (Relay Block Location)	
1	23 (2AZ-FE)	Engine Room R/B No.1 (Engine Compartment Left)	

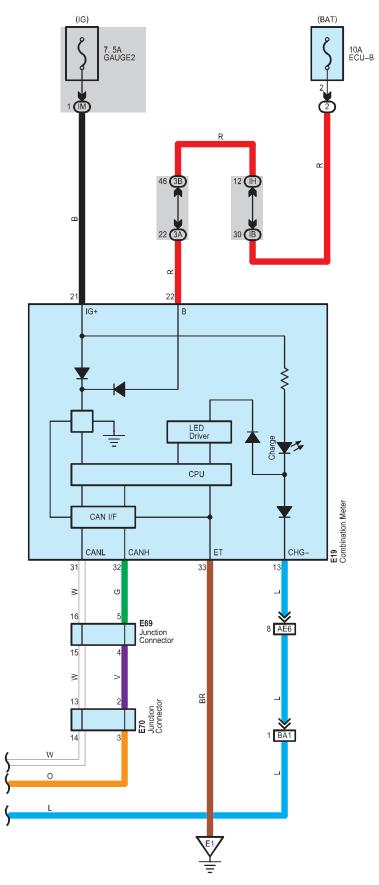
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)						
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)						
AE2	00	Engine Noom Main Whe and instrument and whe (Left Olde of the instrument aller)						
BA1	65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)						

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







O : Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
A9	Α	50 (2GR–FE) B29		29	51 (2GR-FE)	E69	55
A	36	56	B30	В	51 (2GR-FE)	E70	55
B20	Α	51 (2GR-FE)	E′	19	54		
B21	В	51 (2GR-FE)	E68		55		

: Relay Blocks

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

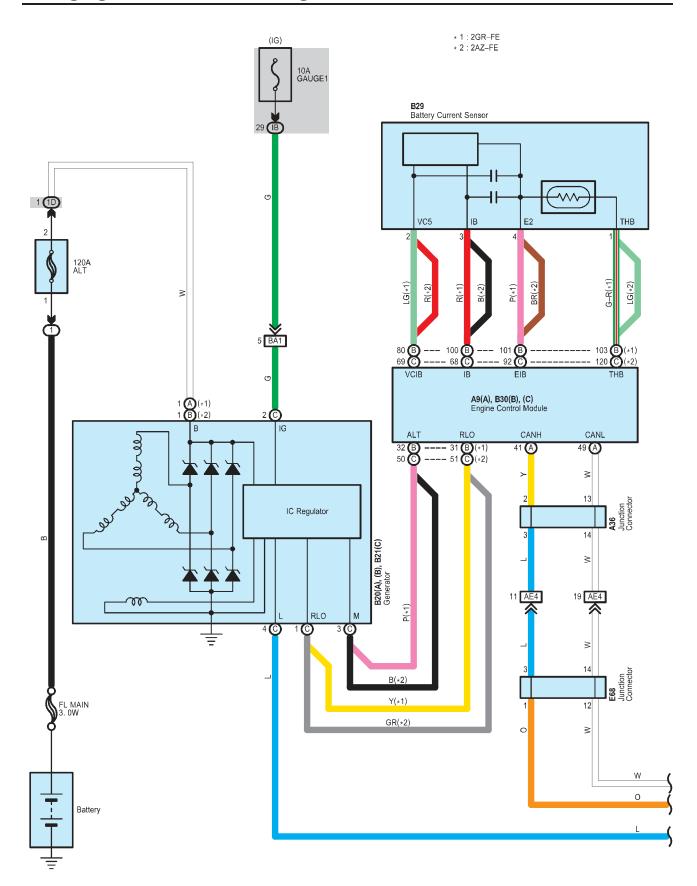
: Junction Block and Wire Harness Connector

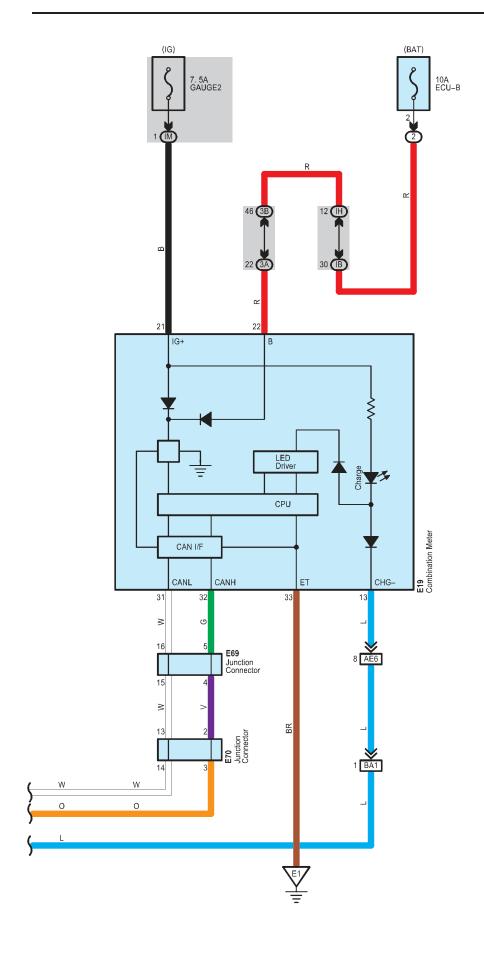
Code	See Page	lunction Block and Wire Harness (Connector Location)				
1D	22 (2GR-FE)	gine Wire and Engine Room J/B (Engine Compartment Left)				
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)				
3B	36	monument ranei vviie and 3/D 140.3 (monument ranei Gentei)				
IB	30	ngine Room Main Wire and Instrument Panel J/B (Cowl Side Left)				
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)				
IM	31					

: Connector Joining Wire Harness and Wire Harness

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

1	Code	See Page	Ground Points Location	
1	E1	66	Left Kick Panel	





Charging without Trailer Towing

: Parts Location

Co	de	See Page	Code		See Page	Code		See Page
A9	Α	50 (2GR-FE)	B21	С	51 (2GR-FE)	B30	С	53 (2AZ-FE)
		52 (2AZ-FE)	DZT		53 (2AZ-FE)	E1	9	54
A:	36	56	B29		51 (2GR-FE)	Εθ	88	55
B20	Α	51 (2GR-FE)] 529		53 (2AZ-FE)	E69		55
D20	В	53 (2AZ-FE)	B30	В	51 (2GR-FE)	E7	' 0	55

: Relay Blocks

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

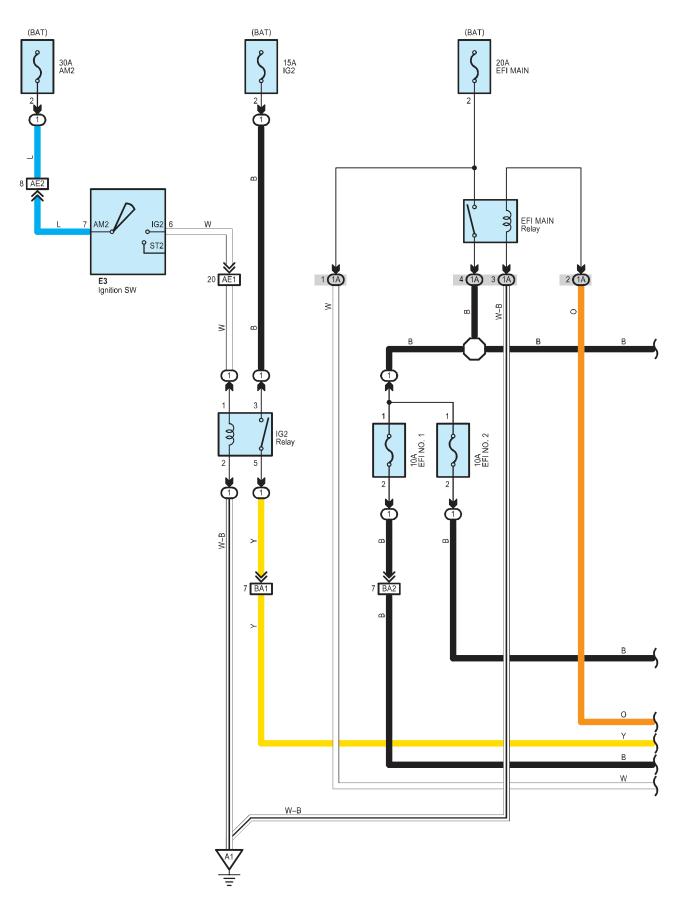
: Junction Block and Wire Harness Connector

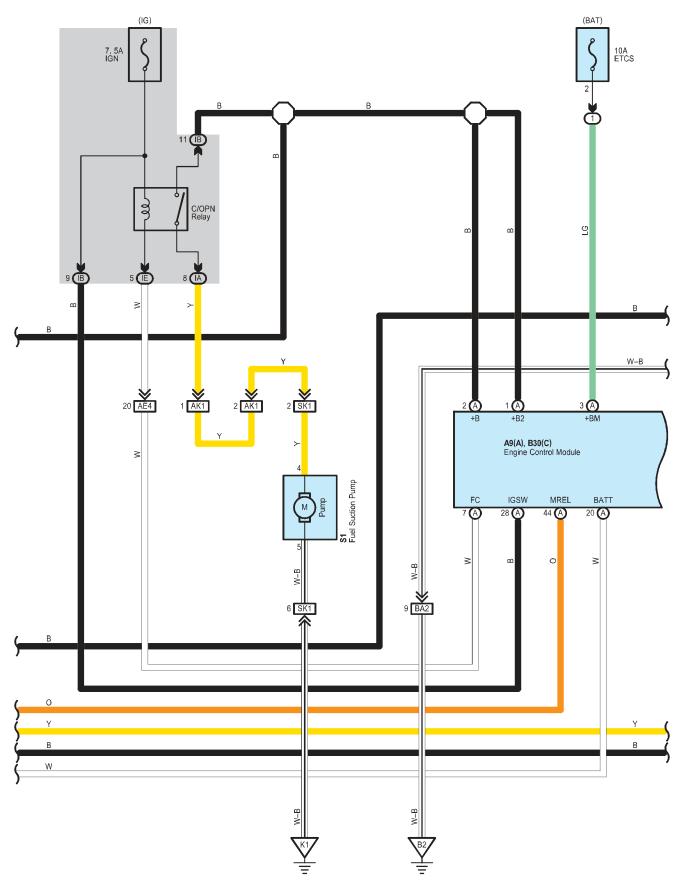
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1D	22 (2GR-FE)	Engine Wire and Engine Room J/B (Engine Compartment Left)			
10	23 (2AZ-FE)				
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30	institutient ratie wire and 3/D No.3 (institutient ratie)			
IB 30 Er		Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IM	31				

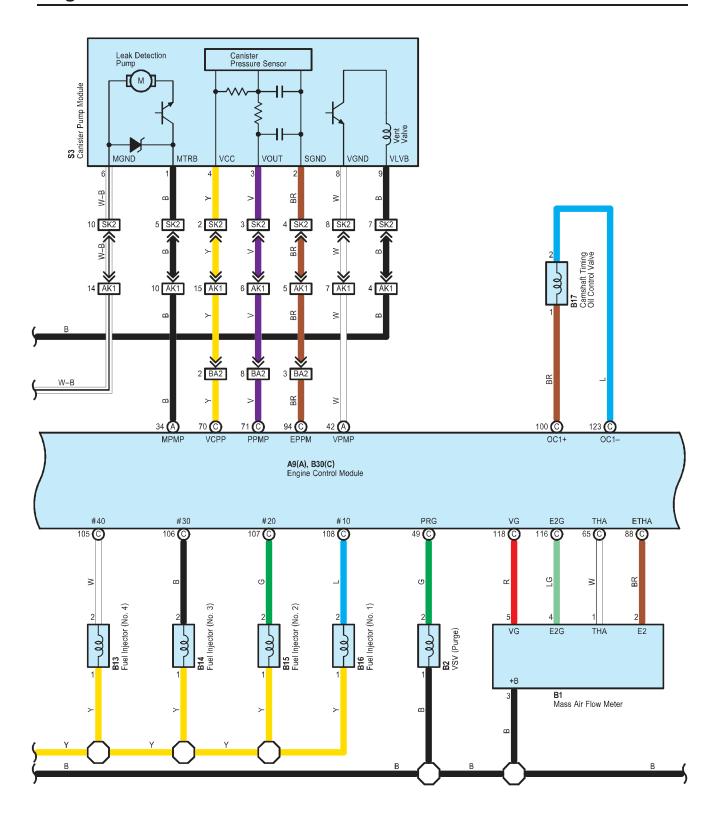
: Connector Joining Wire Harness and Wire Harness

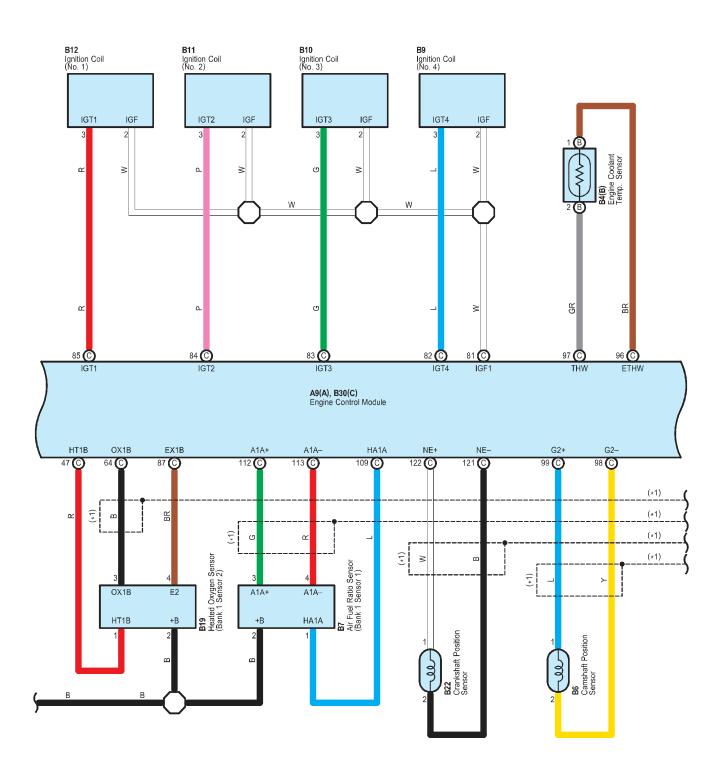
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6	00				
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)			
DAT	65 (2AZ-FE)				

Code	See Page	Ground Points Location	
E1	66	Left Kick Panel	

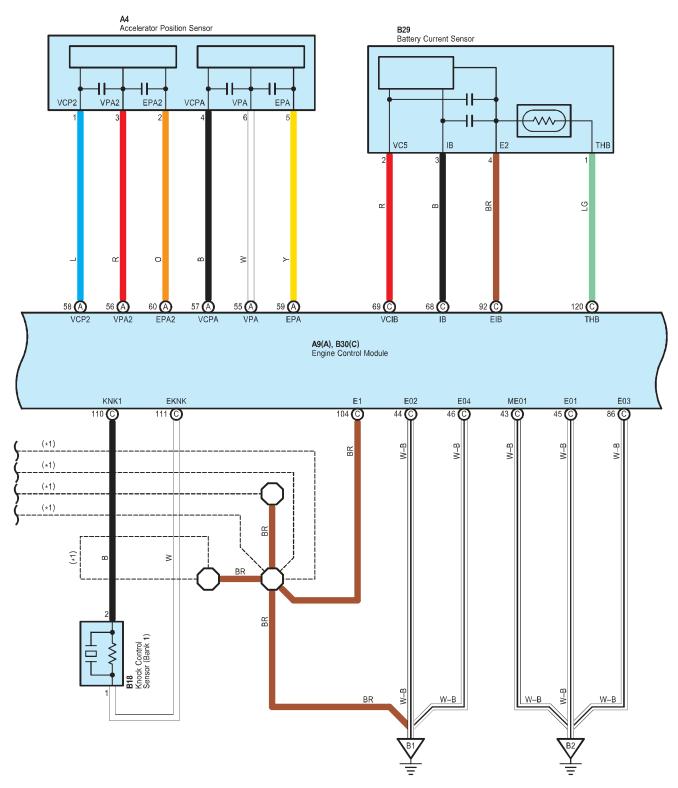


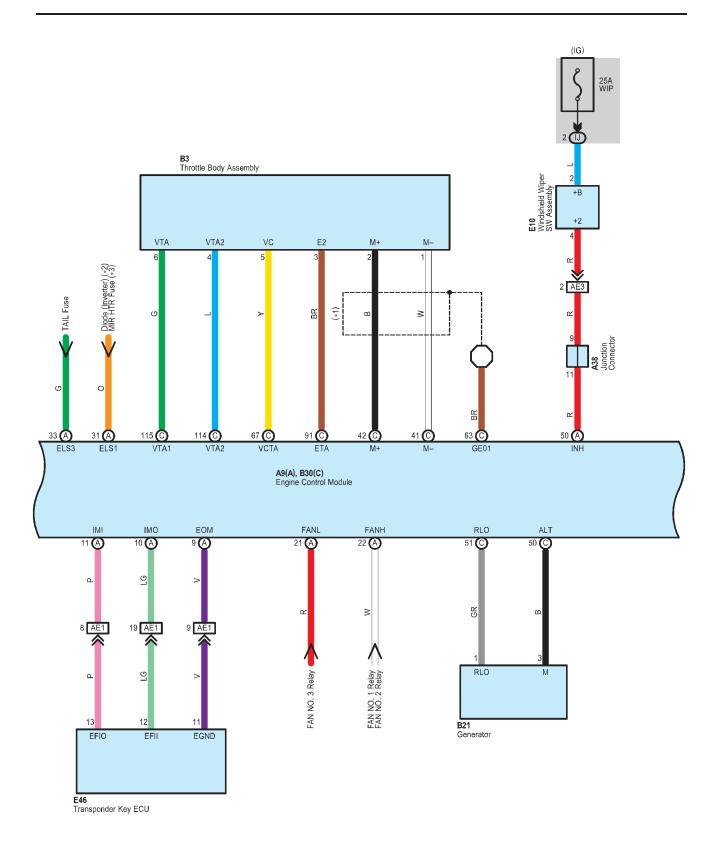


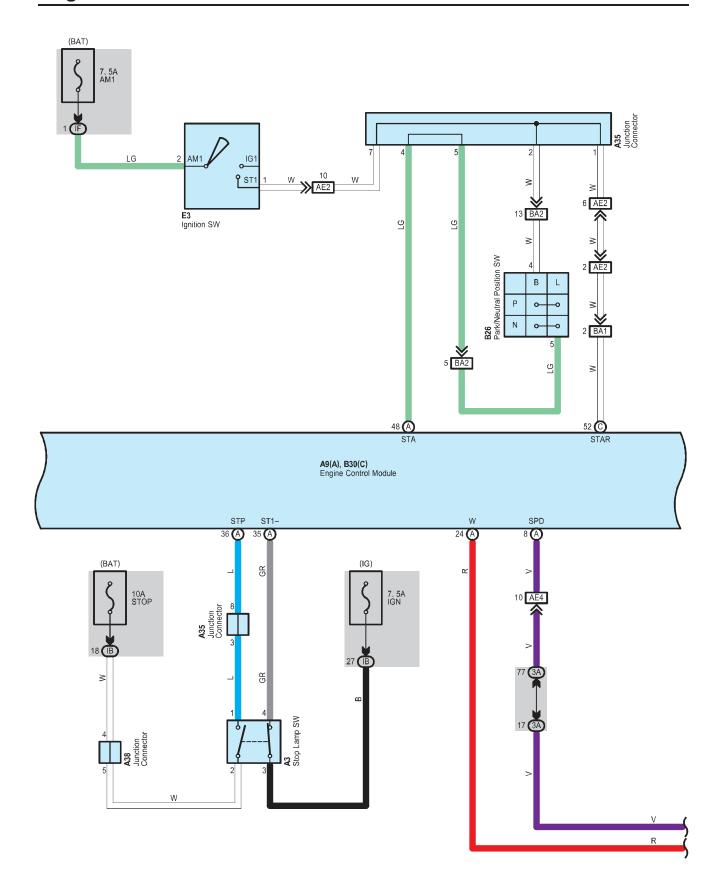


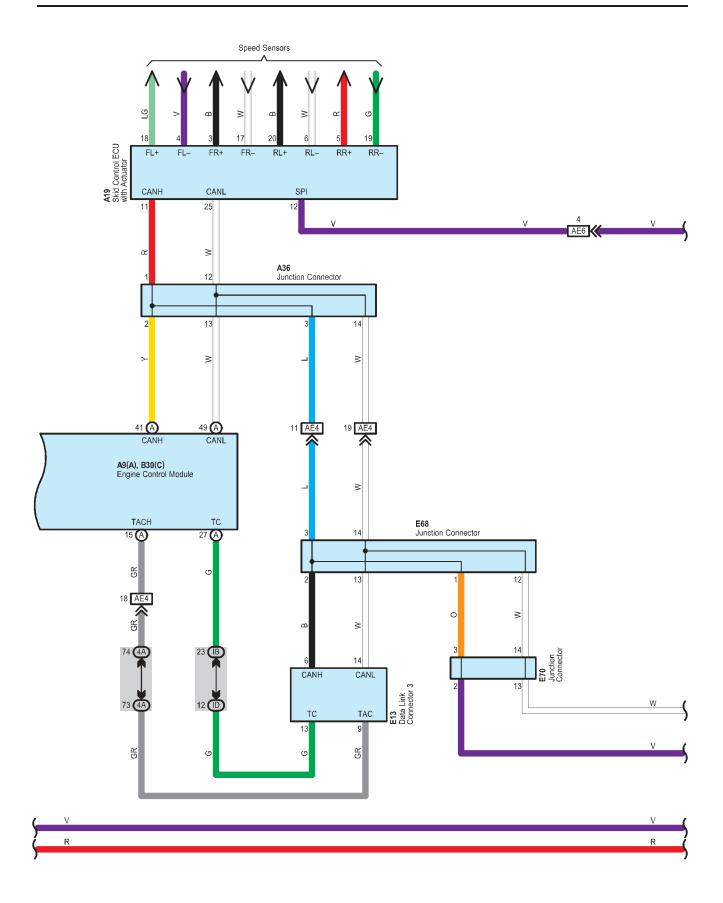


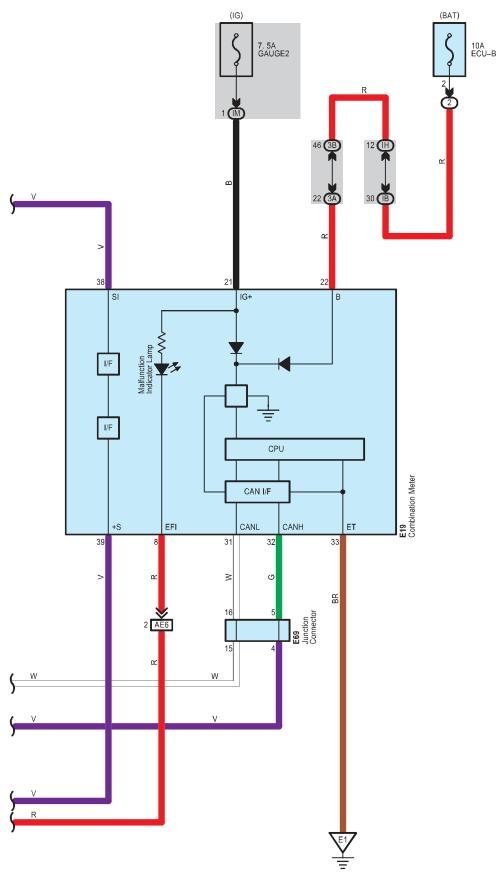
- * 1 : Shielded * 2 : w/ Power Outlet (115V) * 3 : w/o Power Outlet (115V)











System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit

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

(2) Intake air temp. signal circuit

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

(3) Vehicle speed signal circuit

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

(4) RPM signal circuit

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

(5) Throttle position signal circuit

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

(6) Battery signal circuit

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

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

(7) Intake air volume signal circuit

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

(8) Stop lamp SW signal circuit

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

(9) Starter signal circuit

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

(10) Engine knock signal circuit

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

(11) Air fuel ratio signal system

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

(12) Oxygen sensor signal circuit

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

Engine Control for 2AZ-FE

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensor to the engine control module. And the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector (Inject the fuel). The SFI system controls the fuel injection operation by the engine control module in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input to the engine control module from each sensor. The best ignition timing is decided according to this data and the memorized data in the engine control module and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

3. Diagnosis System

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

4. Fail-safe System

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

? : Parts Location

Code	See Page	Code	See Page	Code	See Page
А3	56	B9	53 (2AZ-FE)	B26	53 (2AZ-FE)
A4	56	B10	53 (2AZ-FE)	B29	53 (2AZ-FE)
A9 A	52 (2AZ-FE)	B11	53 (2AZ-FE)	B30 C	53 (2AZ-FE)
A19	52 (2AZ-FE)	B12	53 (2AZ-FE)	E3	54
A35	56	B13	53 (2AZ-FE)	E10	54
A36	56	B14	53 (2AZ-FE)	E13	54
A38	56	B15	53 (2AZ-FE)	E19	54
B1	53 (2AZ-FE)	B16	53 (2AZ-FE)	E46	55
B2	53 (2AZ-FE)	B17	53 (2AZ-FE)	E68	55
В3	53 (2AZ-FE)	B18	53 (2AZ-FE)	E69	55
B4 B	53 (2AZ-FE)	B19	53 (2AZ-FE)	E70	55
B6	53 (2AZ-FE)	B21	53 (2AZ-FE)	S1	61
B7	53 (2AZ-FE)	B22	53 (2AZ-FE)	S3	61

: Relay Blocks

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

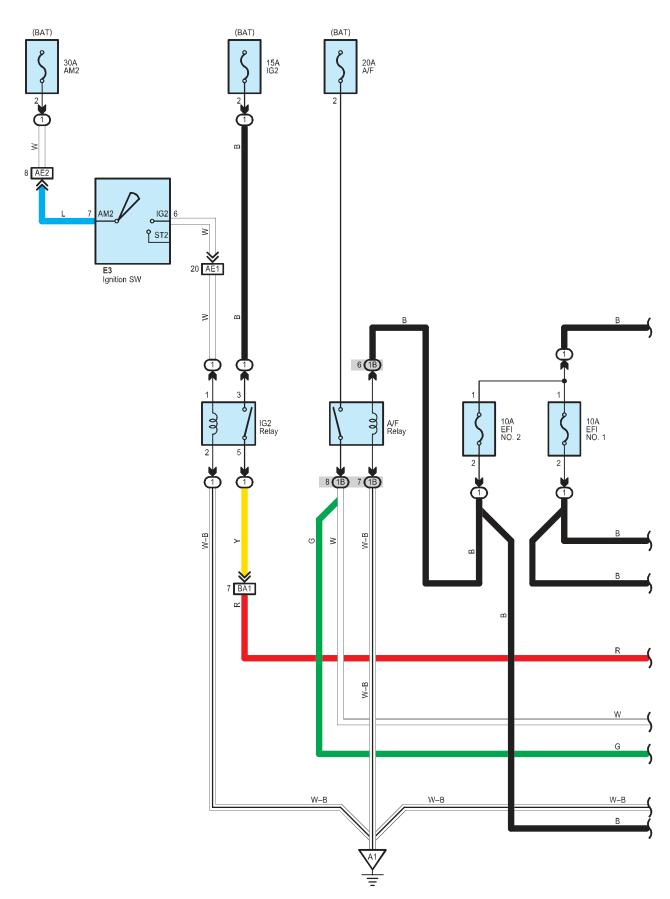
: Junction Block and Wire Harness Connector

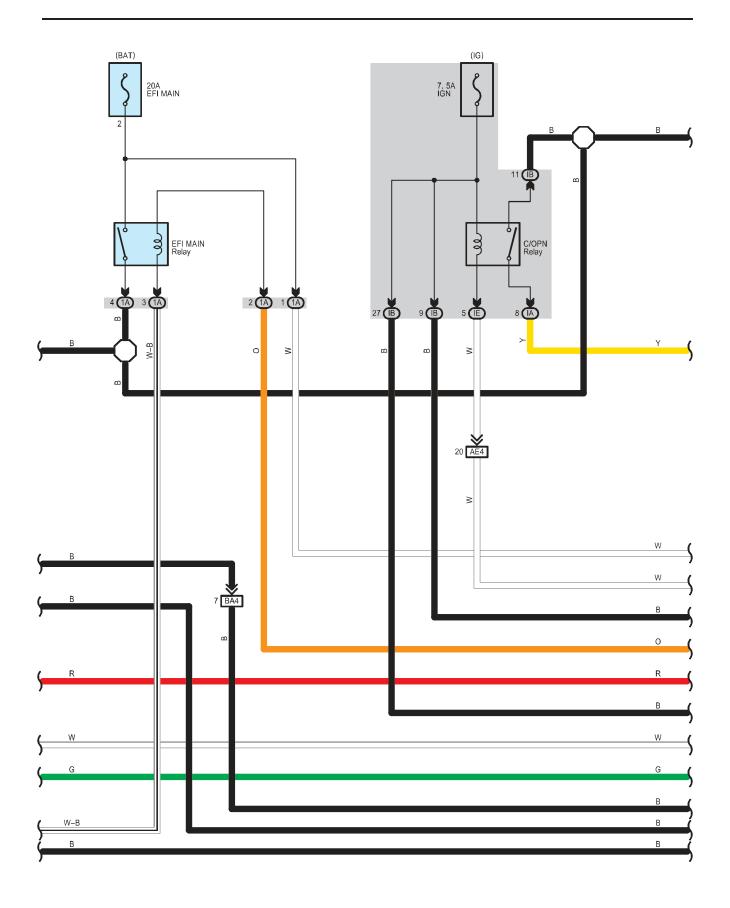
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
3A	- 38	Instrument Danel Wire and I/R No. 2 (Instrument Danel Conter)			
3B	. 36	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
ID					
IE	30				
IF		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IH		instrument Faner whe and instrument Faner 3/D (COW) Side Left)			
IJ					
IM	31				

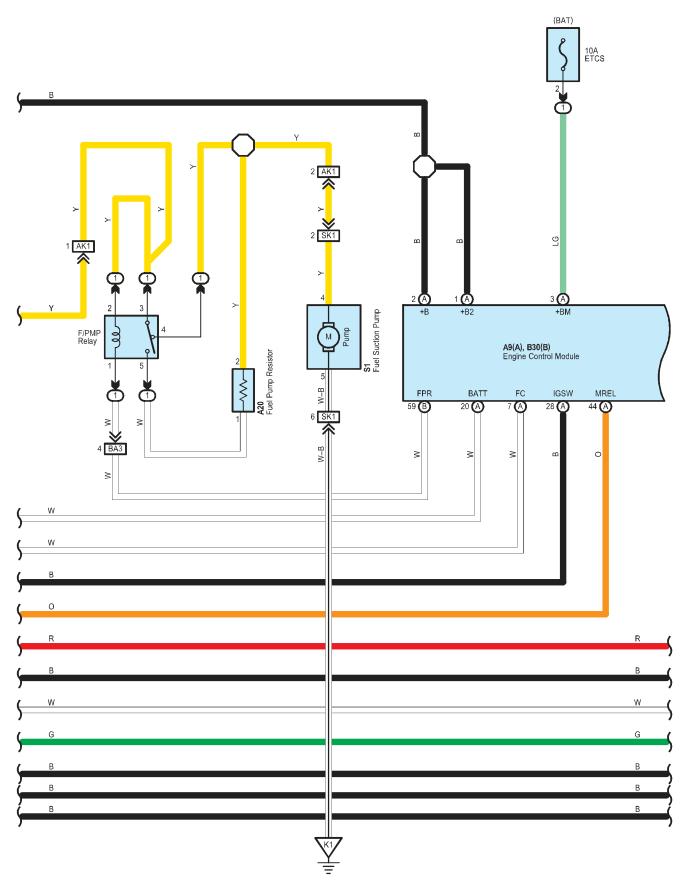
: Connector Joining Wire Harness and Wire Harness

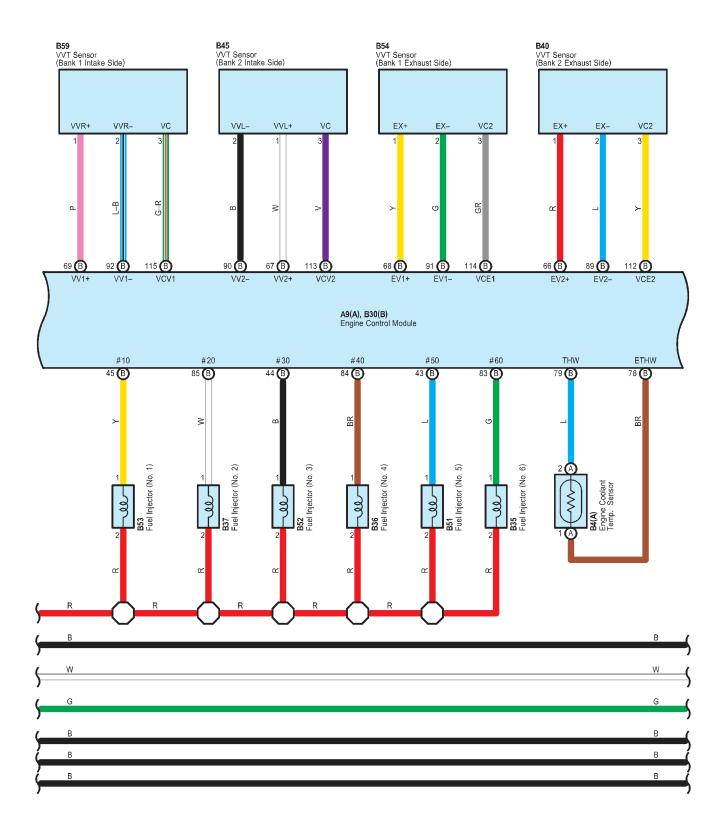
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
AE1			
AE2			
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	
AE4			
AE6	_		
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)	
BA1	- 65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)	
BA2		Engine Wile and Engine Room Wall Wile (molde of the Engine Room We No. 1 and Engine Room 9/2 No. 1)	
SK1	- 66	Fuel Gauge Wire and Floor Wire (Under the Console Box)	
SK2	00	ruei Gauge Wile and Floor Wile (Orider the Console Box)	

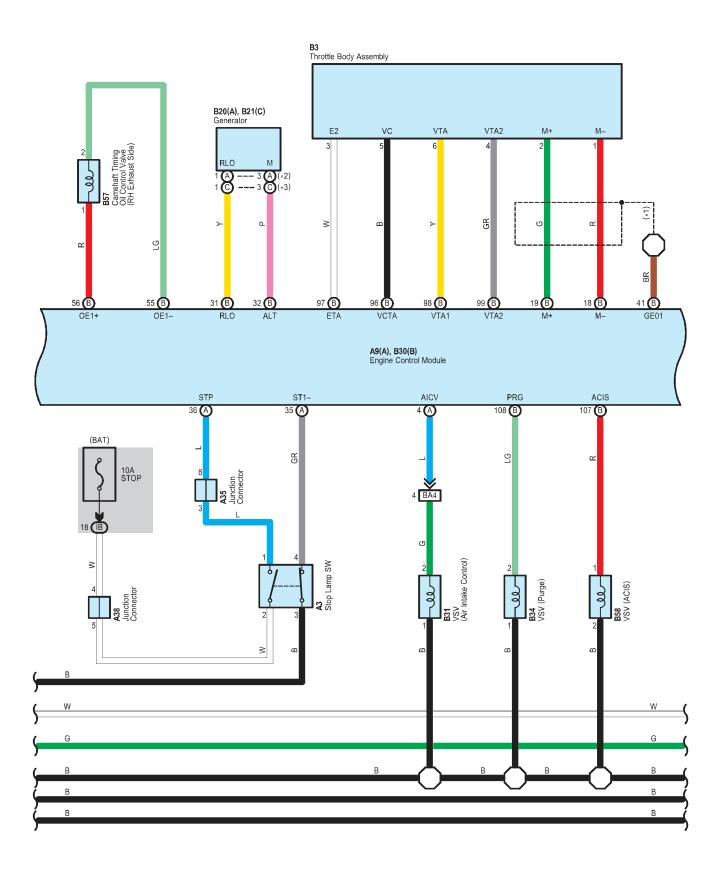
Code	See Page	Ground Points Location	
A1	65 (2AZ-FE)	ont Left Fender	
B1	65 (2AZ–FE)	Left Side of the Cylinder Head	
B2	03 (2A2-1 L)		
E1	66 Left Kick Panel		
K1	67	Left Center Pillar	



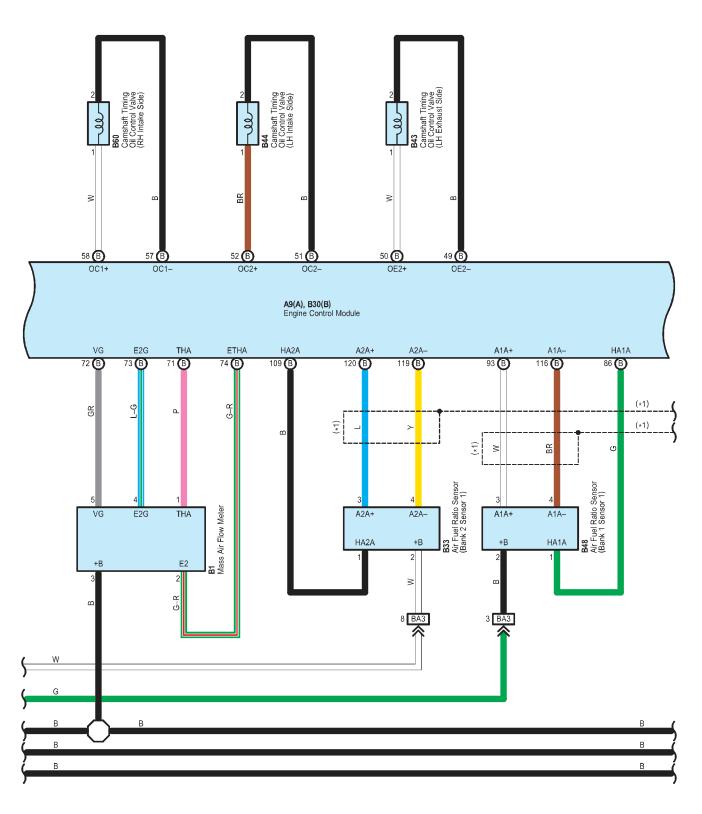


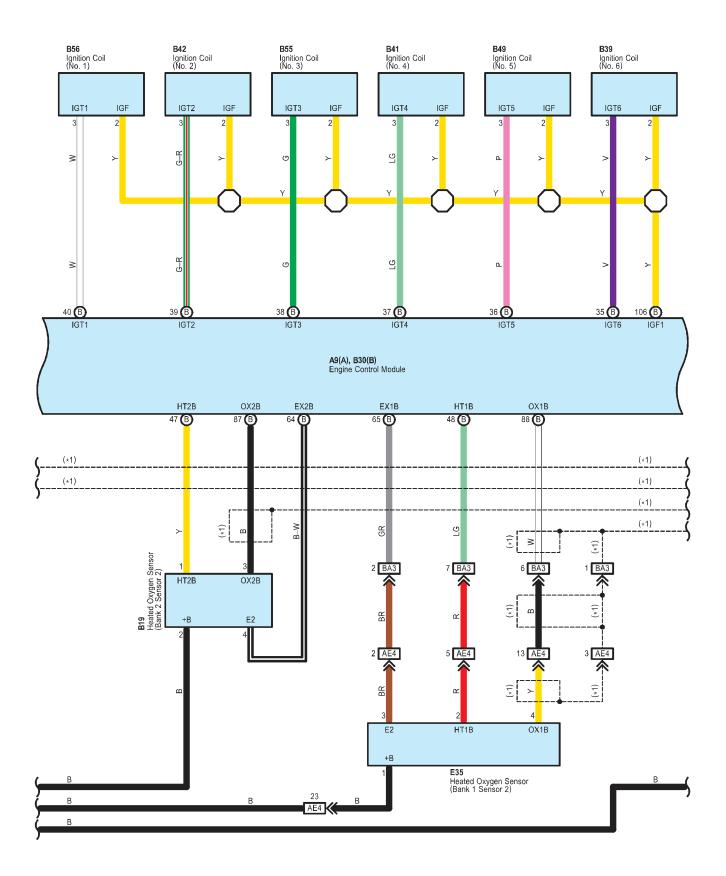


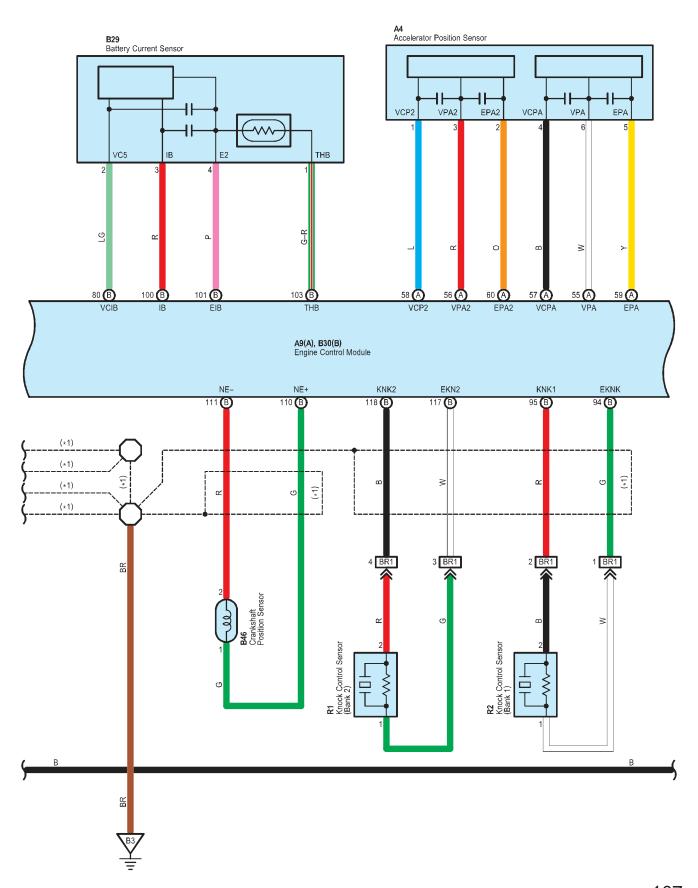


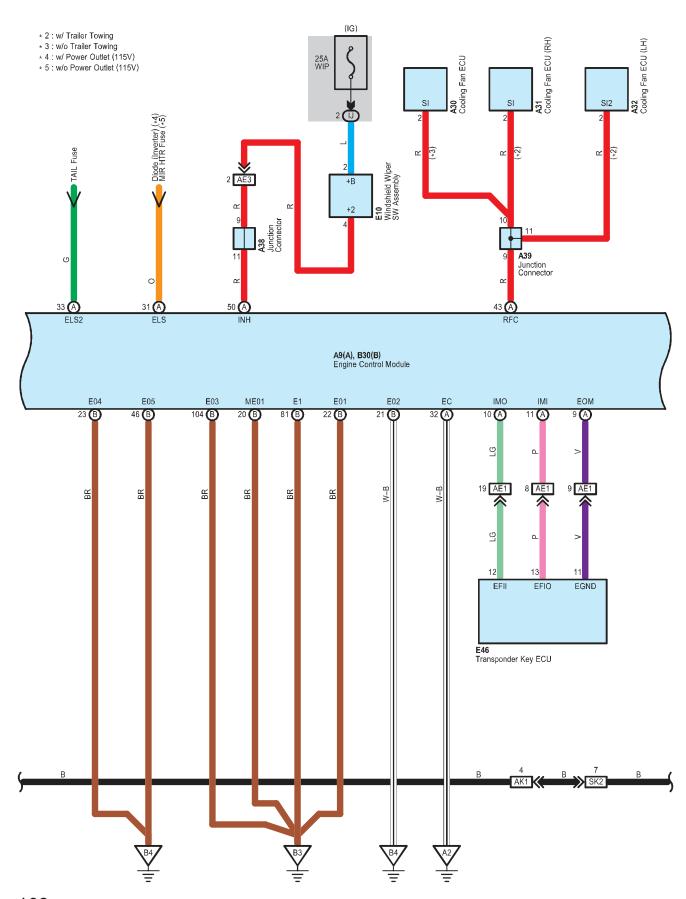


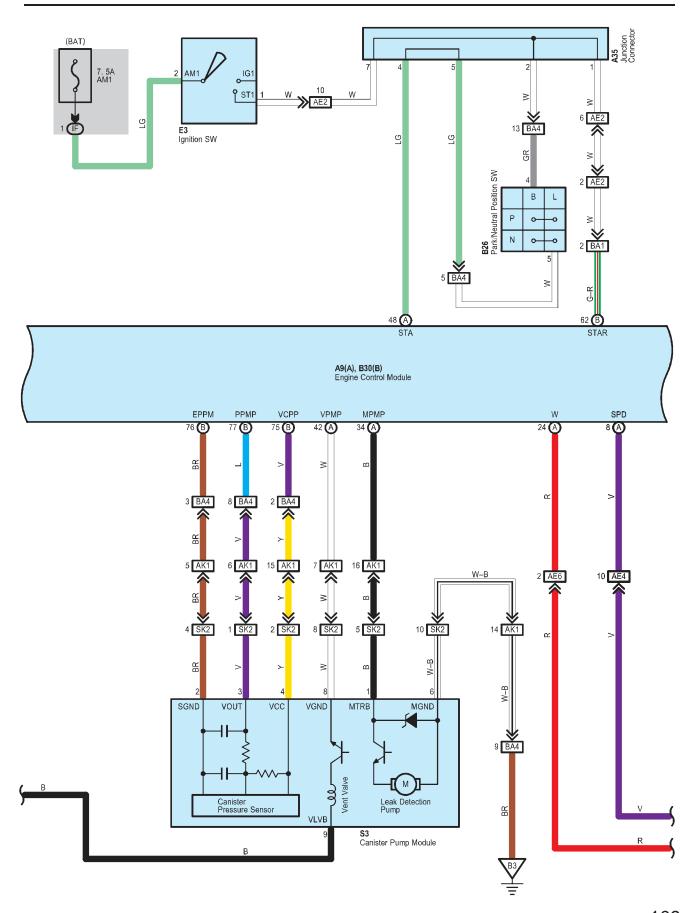
- * 1 : Shielded
- * 2 : w/ Trailer Towing * 3 : w/o Trailer Towing

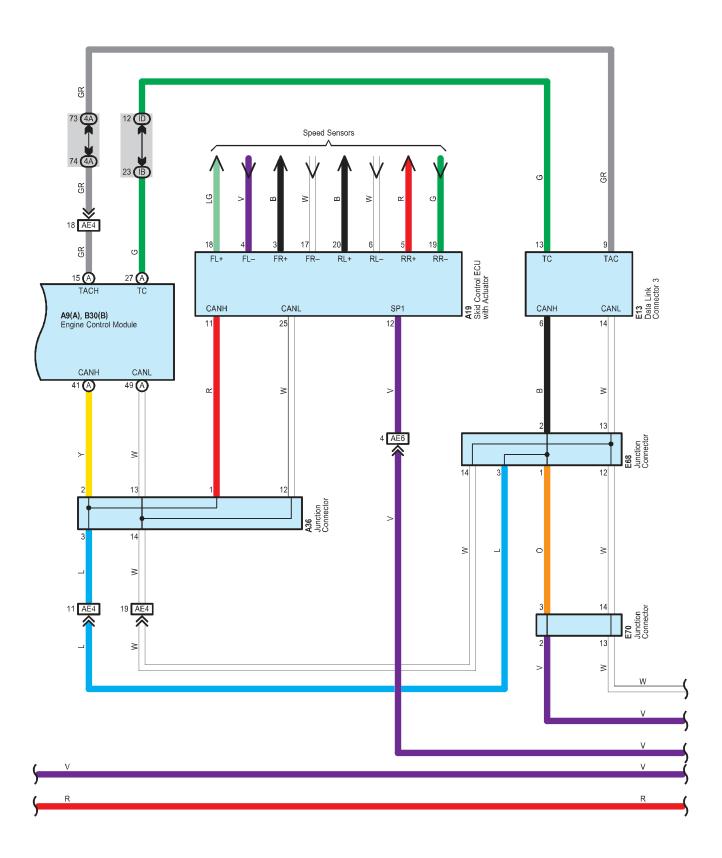


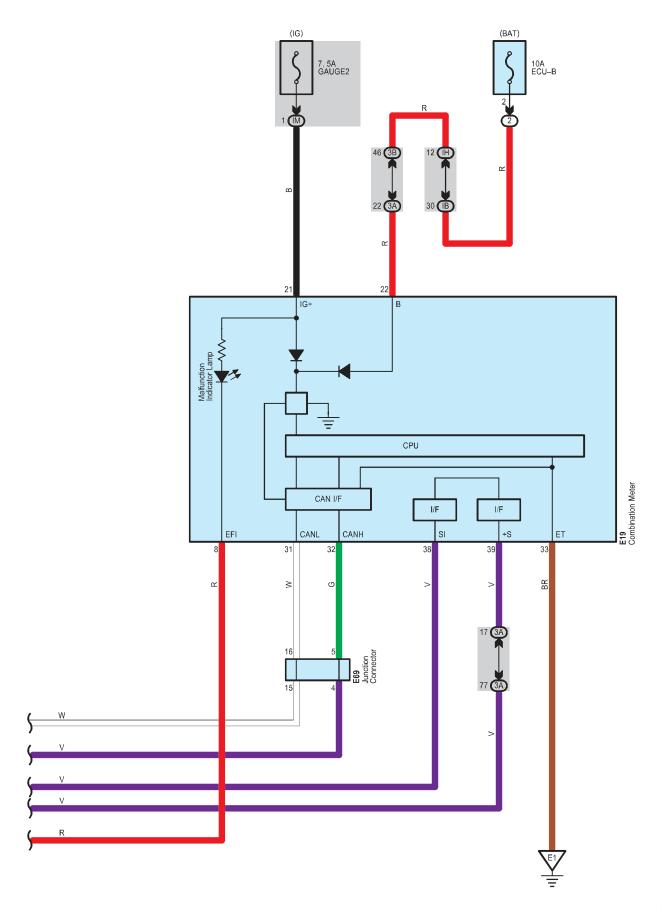












Engine Control for 2GR-FE

System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit

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

(2) Intake air temp. signal circuit

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

(3) Oxygen sensor signal circuit

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

(4) RPM signal circuit

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

(5) Throttle position sensor signal circuit

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

(6) Vehicle speed circuit

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

(7) Battery signal circuit

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

(8) Intake air volume signal circuit

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

(9) Stop lamp SW signal circuit

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

(10) Starter signal circuit

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

(11) Engine knock signal circuit

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

(12) Air fuel ratio signal circuit

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

2. Control System

* SFI system

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

* ESA system

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

* Heated oxygen sensor heater control system

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

* Air fuel ratio sensor heater control system

The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.

The engine control module evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.

* ACIS

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

* ETCS-i

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

* VVT-i

Controls the camshaft to an optimal valve timing in accordance with the engine condition.

3. Diagnosis System

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

4. Fail-Safe System

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

Engine Control for 2GR-FE

O : Parts Location

Code		See Page	Cod	de	See Page	Code	See Page
А3		56	B30	В	51 (2GR-FE)	B54	51 (2GR-FE)
A4	4	56	B31		51 (2GR-FE)	B55	51 (2GR-FE)
A9	Α	50 (2GR-FE)	В3	3	51 (2GR-FE)	B56	51 (2GR-FE)
A1	9	50 (2GR-FE)	В3	4	51 (2GR-FE)	B57	51 (2GR-FE)
A2	20	50 (2GR-FE)	В3	5	51 (2GR-FE)	B58	51 (2GR-FE)
A3	80	50 (2GR-FE)	В3	6	51 (2GR-FE)	B59	51 (2GR-FE)
A3	31	50 (2GR-FE)	В3	7	51 (2GR-FE)	B60	51 (2GR-FE)
A3	32	50 (2GR-FE)	В3	9	51 (2GR-FE)	E3	54
A3	35	56	B4	0	51 (2GR-FE)	E10	54
A3	86	56	B4	1	51 (2GR-FE)	E13	54
A3	88	56	B4	2	51 (2GR-FE)	E19	54
A3	19	50 (2GR-FE)	B4	3	51 (2GR-FE)	E35	55
B′	1	51 (2GR-FE)	B4	4	51 (2GR-FE)	E46	55
B3	3	51 (2GR-FE)	B4	5	51 (2GR-FE)	E68	55
B4	Α	51 (2GR-FE)	B4	6	51 (2GR-FE)	E69	55
B1	9	51 (2GR-FE)	B4	8	51 (2GR-FE)	E70	55
B20	Α	51 (2GR-FE)	B4	9	51 (2GR-FE)	R1	51 (2GR-FE)
B21	С	51 (2GR-FE)	B5	1	51 (2GR-FE)	R2	51 (2GR-FE)
B2	26	51 (2GR–FE) B52		2	51 (2GR-FE)	S1	61
B2	.9	51 (2GR–FE) B53		3	51 (2GR-FE)	S3	61

: Relay Blocks

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

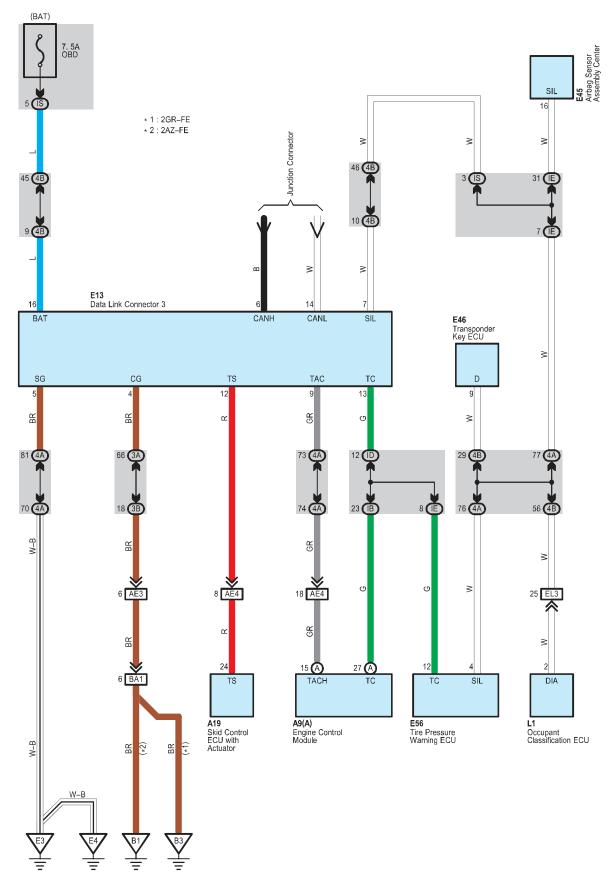
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	- 24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room wain wire and Engine Room 3/5 (Engine Compartment Left)			
3A	- 38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30	instrument Failer whe and 3/D No.3 (instrument Failer Center)			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
ID	30				
IE					
IF		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IH					
IJ	1				
IM	31				

: Connector Joining Wire Harness and Wire Harness

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

Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
A2	04 (2011-1 L)	I TOTIL LEILT GILLGI	
В3	64 (2GR-FE)	Left Side of the Cylinder Head	
B4	04 (2GIN-I L)		
E1	66 Left Kick Panel		
K1	67	Left Center Pillar	



: Parts Location

Co	ode	See Page	Code	See Page	See Page Code See P	
A9	Δ	50 (2GR-FE)	A19	52 (2AZ-FE)	E46	55
Α3	^	52 (2AZ-FE)	E13	54	E56	55
Α	19	50 (2GR-FE)	E45	55	L1	62

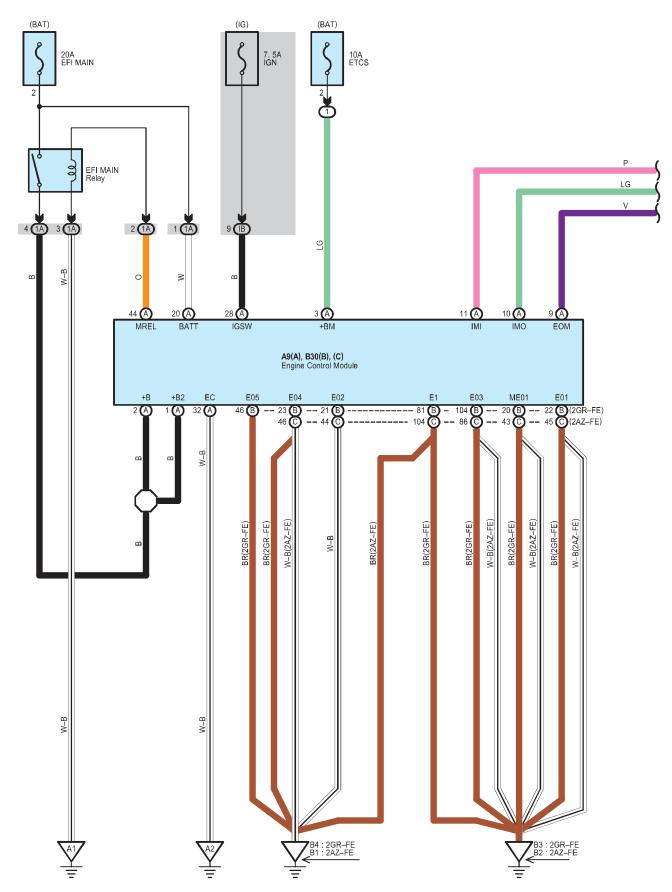
: Junction Block and Wire Harness Connector

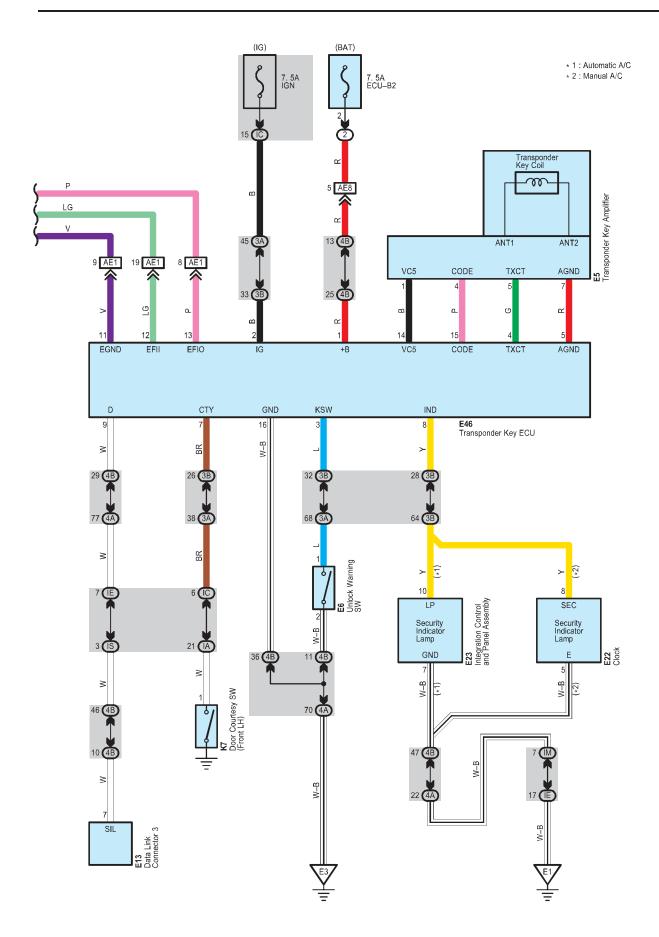
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	38	Instrument Danel Wire and I/D No. 2 (Instrument Danel Center)		
3B	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
4A	- 44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B	44	Instrument Fanet vviie and 3/D (vo.4 (instrument Fanet Cefflet)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
ID	30			
IE	7 30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IS	31			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)		
AE4	00	Engine Room Main whe and instrument Paner whe (Left Side of the instrument Paner)		
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)		
DAI	65 (2AZ-FE)	Engine whe and Engine Room Main whe (inside of the Engine Room R/B No.1 and Engine Room 3/B No.1)		
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)		

Code	See Page	Ground Points Location	
B1	65 (2AZ-FE)	Left Side of the Cylinder Head	
В3	64 (2GR-FE)	Left Side of the Cylinder Head	
E3	66	nstrument Panel Reinforcement Center	
E4	66	Right Kick Panel	





Engine Immobiliser System

Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A9	Α	50 (2GR-FE)	E5	54	E23	54
A9	^	52 (2AZ-FE)	E6	54	E46	55
B30	В	51 (2GR-FE)	E13	54	K7	59
B30 -	С	53 (2AZ-FE)	E22	54		

: Relay Blocks

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

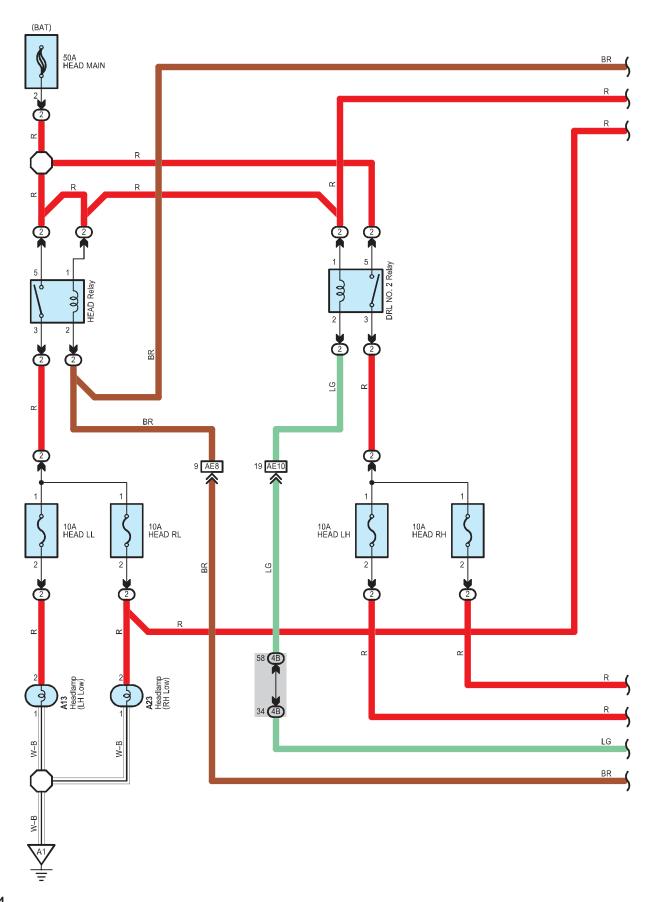
: Junction Block and Wire Harness Connector

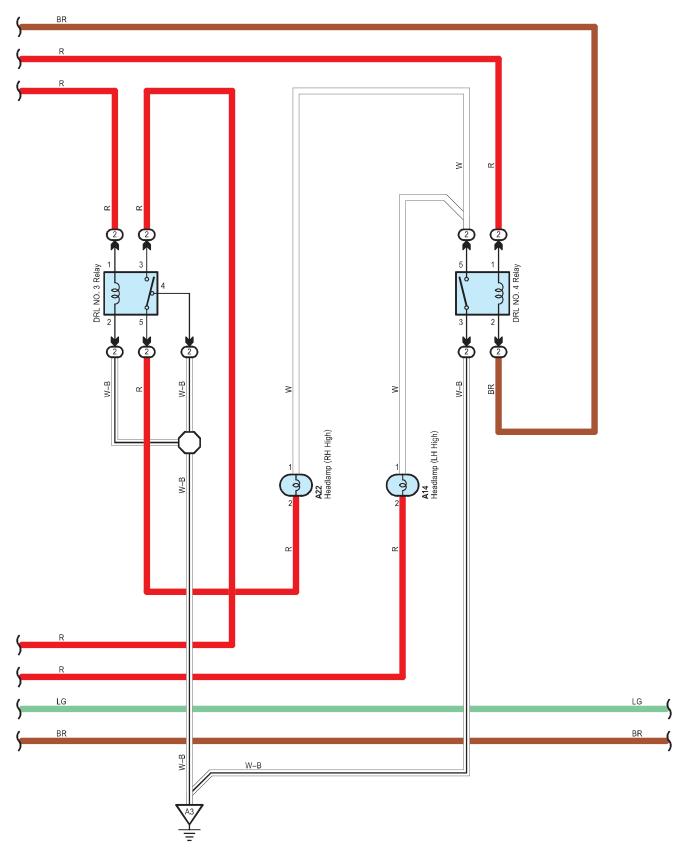
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
3A	- 38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
3B	36		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
4B		instrument and will and old no.4 (moramone)	
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)	
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IC	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IE			
IM		This turner trainer while and institution trainers of Coom Side Left)	
IS] "		

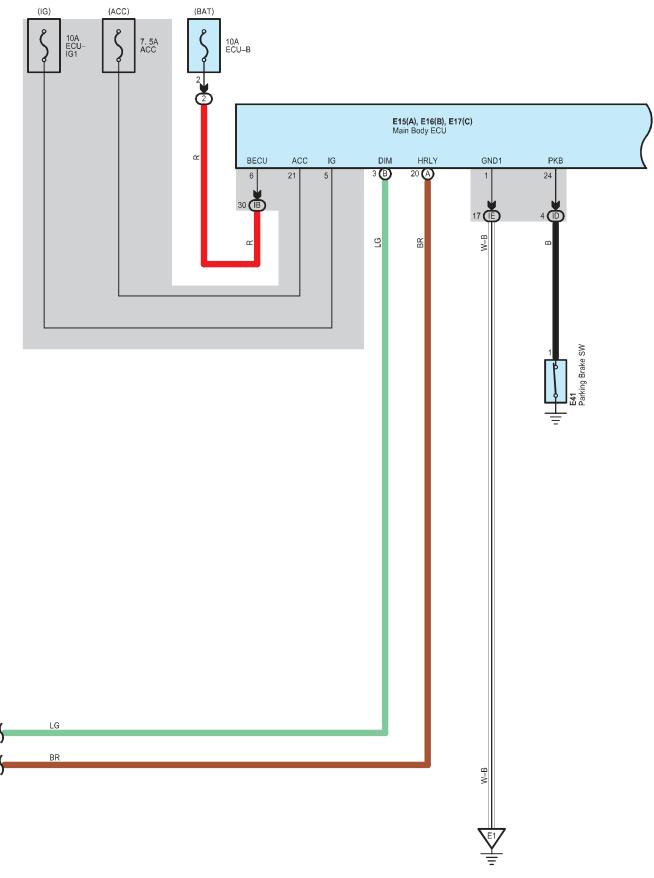
: Connector Joining Wire Harness and Wire Harness

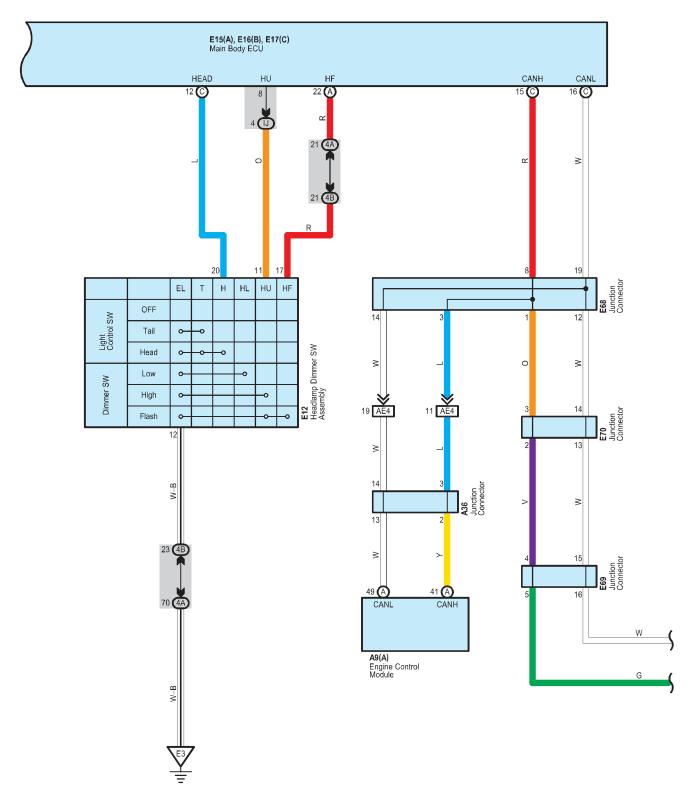
	Code	See Page	ge Joining Wire Harness and Wire Harness (Connector Location)	
	AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	
ſ	AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)	

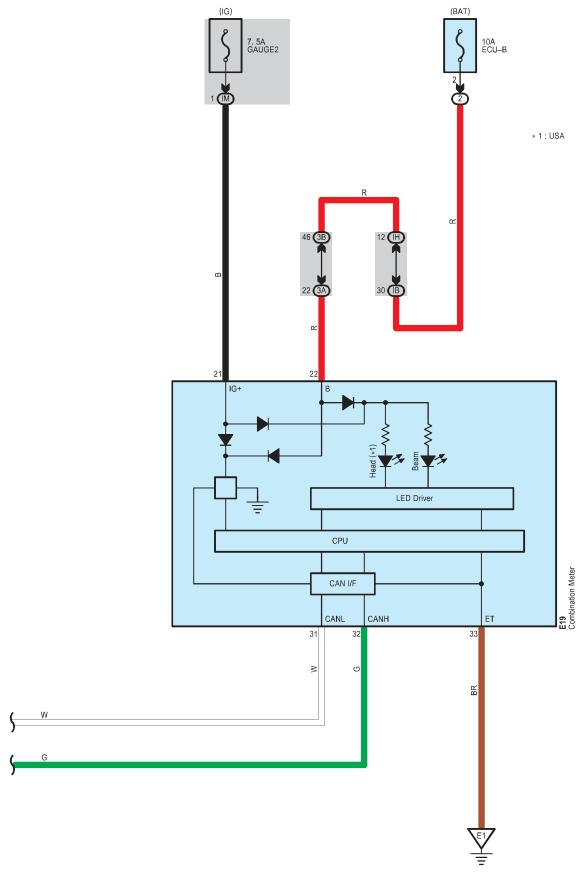
Code	See Page	Ground Points Location
A1	64 (2GR-FE)	
_ ^'	65 (2AZ-FE)	Front Left Fender
A2	64 (2GR-FE)	TION LEIL FEILUEI
AZ	65 (2AZ-FE)	
B1	65 (2AZ–FE)	- Left Side of the Cylinder Head
B2	03 (ZAZ-1 L)	
В3	64 (2GR-FE)	
B4	04 (2GK-I L)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center











: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
A9	Α	50 (2GR-FE)	A2	22	52 (2AZ-FE)	E17	С	54
		52 (2AZ-FE)	A23		50 (2GR-FE)	E19		54
Δ.	13	50 (2GR-FE)			52 (2AZ-FE)	E41		55
	10	52 (2AZ-FE)	A:	36	56	Εθ	88	55
Λ.	14	50 (2GR-FE)	E.	12	54	Εθ	69	55
^	14	52 (2AZ-FE)	E15	Α	54	E	70	55
A22		50 (2GR-FE)	E16	В	54			

: Relay Blocks

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

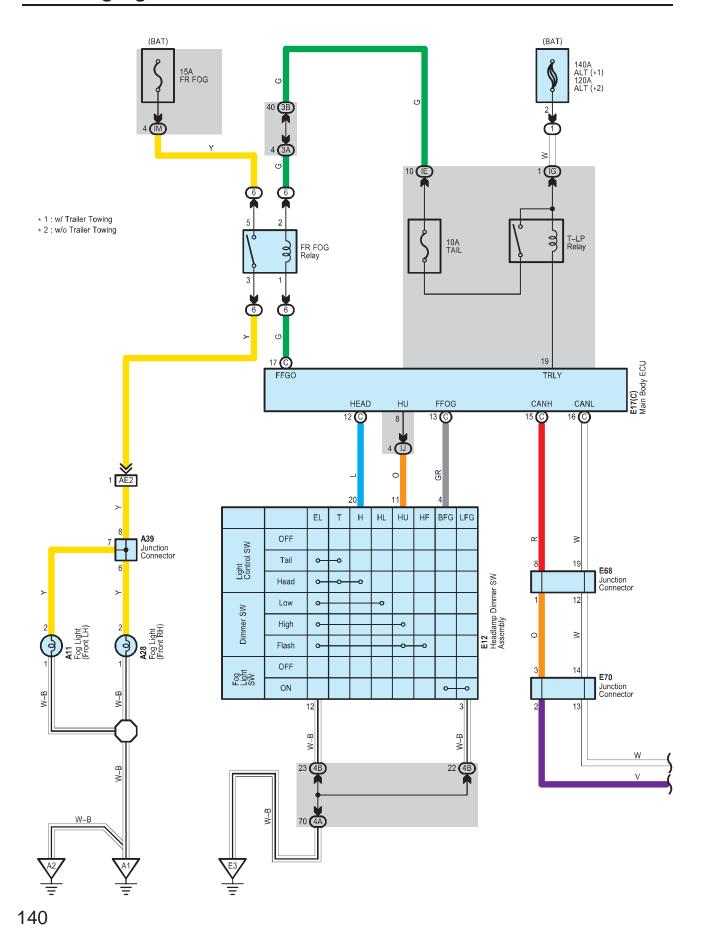
: Junction Block and Wire Harness Connector

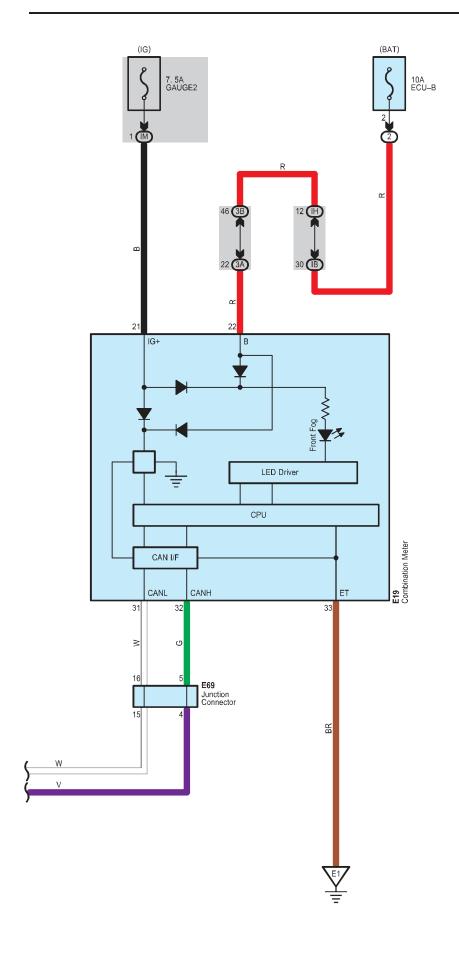
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
3B	30			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B	77	monument and vine and vio no. 4 (monument)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
ID		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IE	30			
IH				
IJ				
IM	31			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)	
AE10	- 00		

Code	See Page	Ground Points Location			
A1	64 (2GR-FE)	ont Left Fender			
	65 (2AZ-FE)	it Left Ferider			
A3	64 (2GR-FE)	ront Right Fender			
Α3	65 (2AZ-FE)	on Night Fide			
E1	66	Left Kick Panel			
E3 66 Instrument Panel Reinforcement Center		Instrument Panel Reinforcement Center			





Front Fog Light

: Parts Location

Code	See Page	Code		See Page	Code	See Page
A11	50 (2GR-FE)	I A39 F		50 (2GR-FE)	E19	54
A''	52 (2AZ-FE)			52 (2AZ-FE)	E68	55
A28	50 (2GR-FE)	E12		54	E69	55
	52 (2AZ-FE)	E17	С	54	E70	55

: Relay Blocks

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

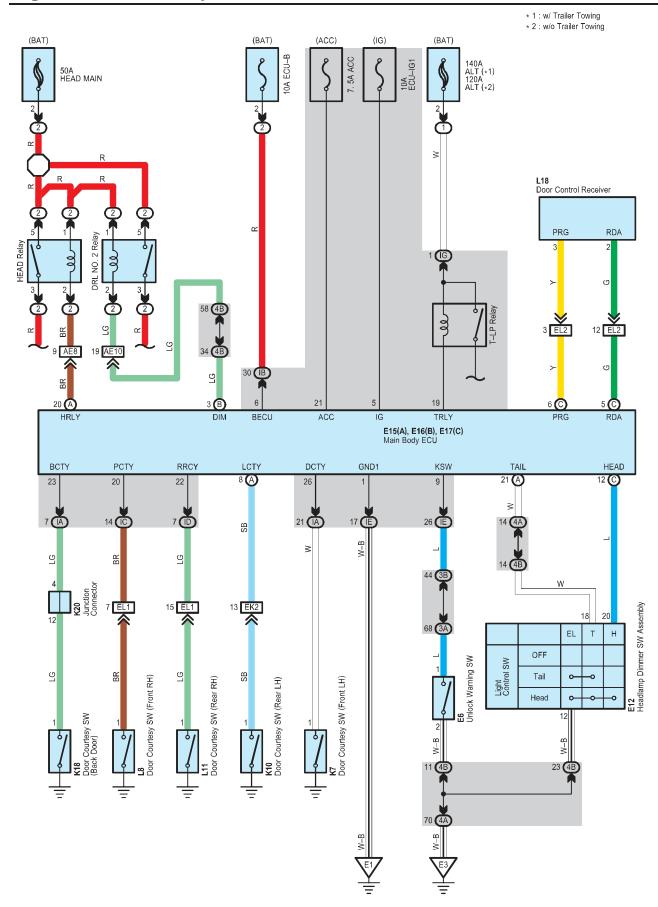
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
3A	- 38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
3B 30		instrument ranei vviie and 3/D 140.3 (instrument ranei Gentel)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
4B] "	Instrument and vine and 0/D 140.4 (instrument and Defite)	
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IJ			
IM	31		

: Connector Joining Wire Harness and Wire Harness

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

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



Code		See Page	Co	de	See Page	Code	See Page
E6 54		E17	С	54	K20	59	
Е	12	54	K	7	59	L8	60
E15	Α	54	K′	10	59	L11	60
E16	В	54	K′	18	59	L18	60

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)		
1	22 (2GR-FE)	Ingine Room R/B No.1 (Engine Compartment Left)		
'	23 (2AZ-FE)	Linging Noon N/D No. 1 (Engine Compartment Left)		
2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)		
	27 (2AZ-FE)	Engine Room R/B No.2 (Engine Compartment Right)		

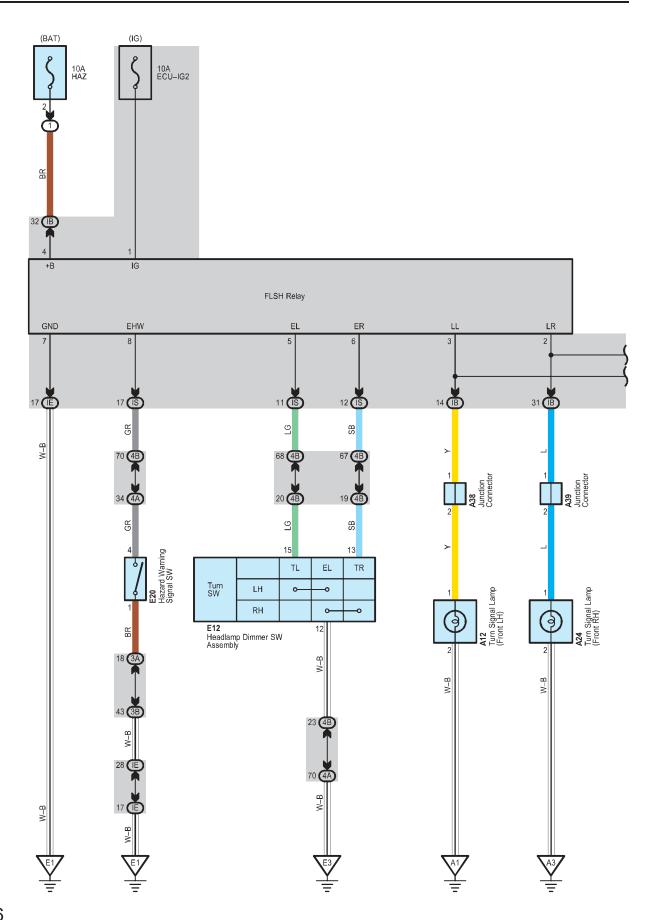
: Junction Block and Wire Harness Connector

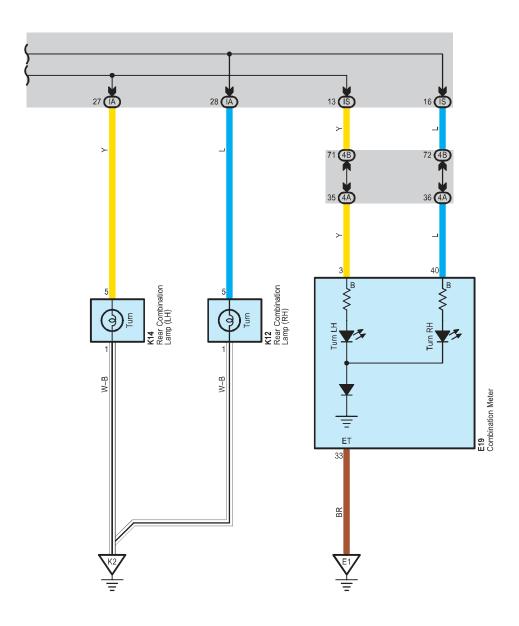
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	- 38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
3B	30			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B	1 44	instrument raner wire and 3/D No.4 (instrument raner center)		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
IC				
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IE				
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
AE8	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)		
AE10		Engine 1.00m Main whe and instrument aller whe (1.1ght olde of the instrument aller)		
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)		
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)		
EL2	00			

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





Turn Signal and Hazard Warning Light

O : Parts Location

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

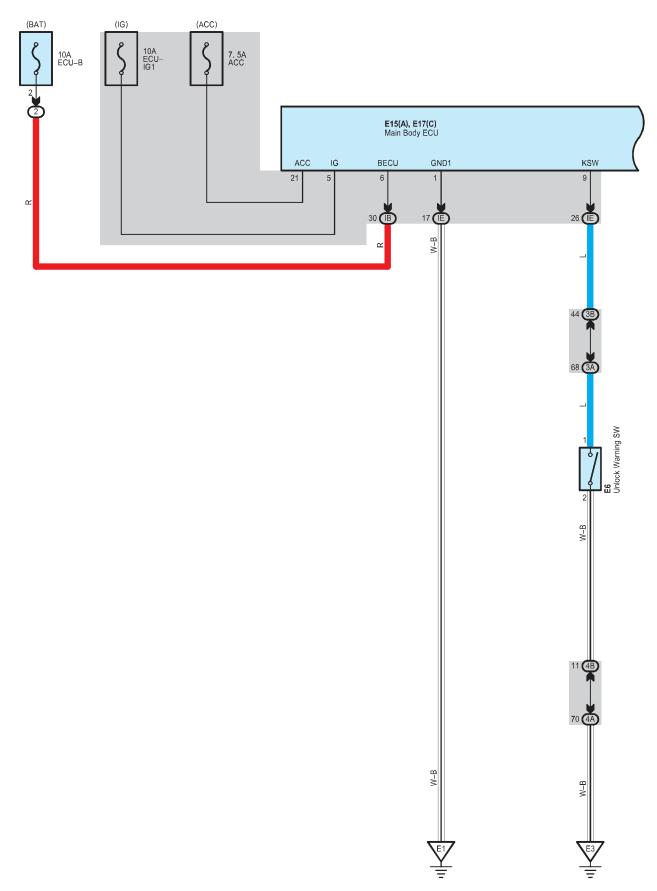
: Relay Blocks

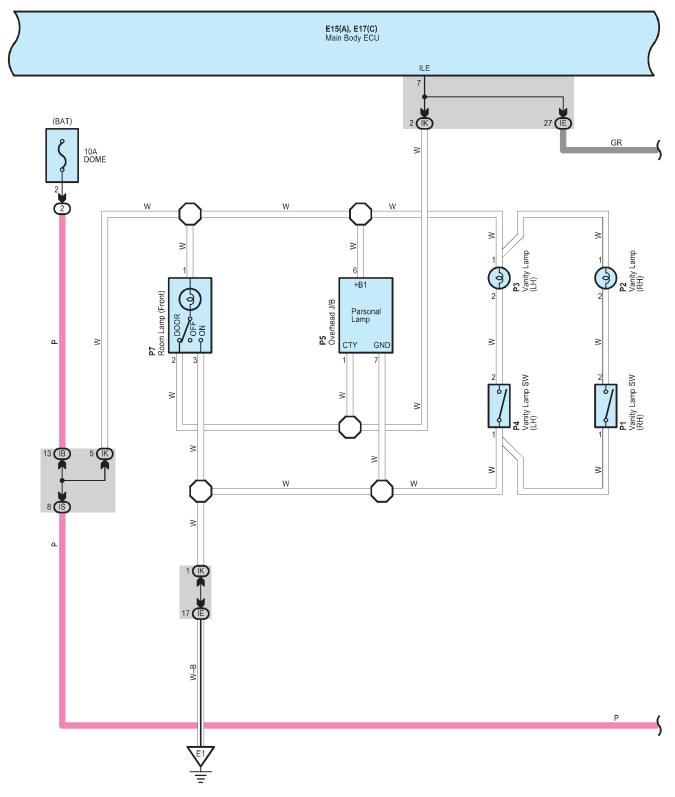
Code	See Page	Relay Blocks (Relay Block Location)		
1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)		
'	23 (2AZ-FE)	Lingine Room Room (Lingine Compartment Left)		

: Junction Block and Wire Harness Connector

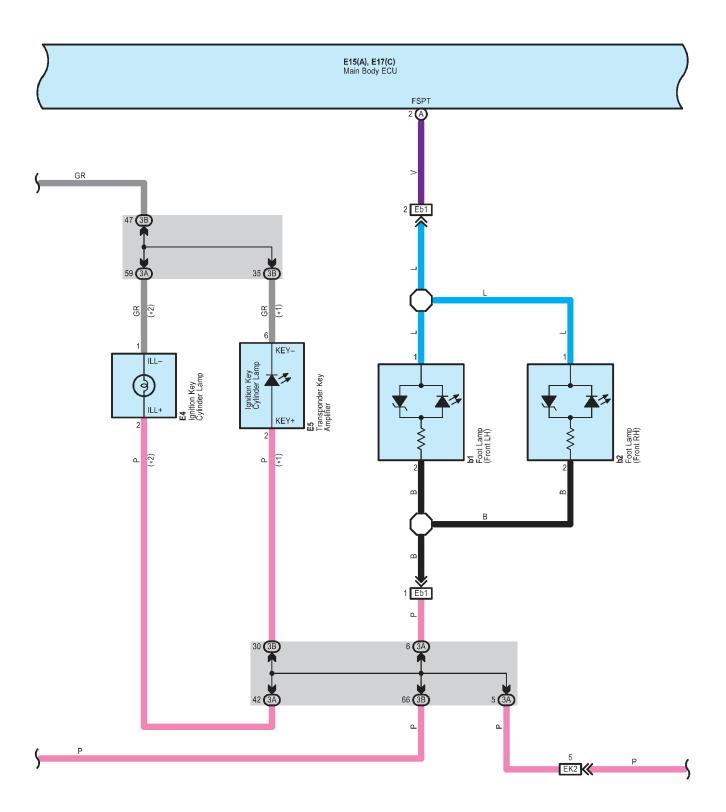
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
3B	36	Inistrument Fanet whe and 3/5 No.3 (instrument Fanet Center)		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B	44	Instrument Fanet whe and 3/5 No.4 (instrument Fanet Center)		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IS	31	This turner is a first turner is a little of the controlle Lett)		

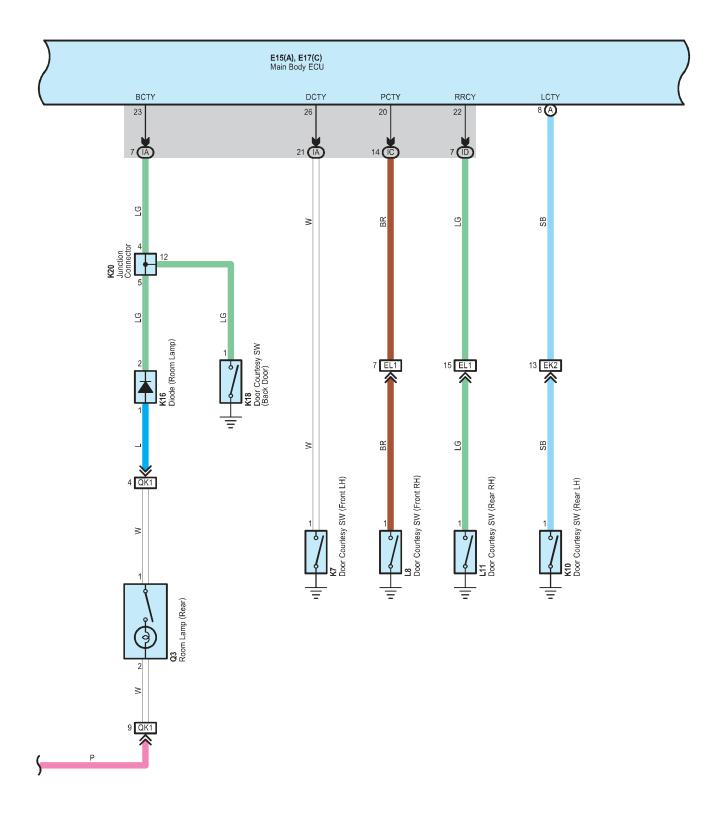
Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
Δ'	65 (2AZ-FE)	TION Lett Glue	
A3	64 (2GR-FE)	Front Right Fender	
7.0	65 (2AZ-FE)		
E1	66	Left Kick Panel	
E3	66	Instrument Panel Reinforcement Center	
K2	67	Left Quarter Panel	

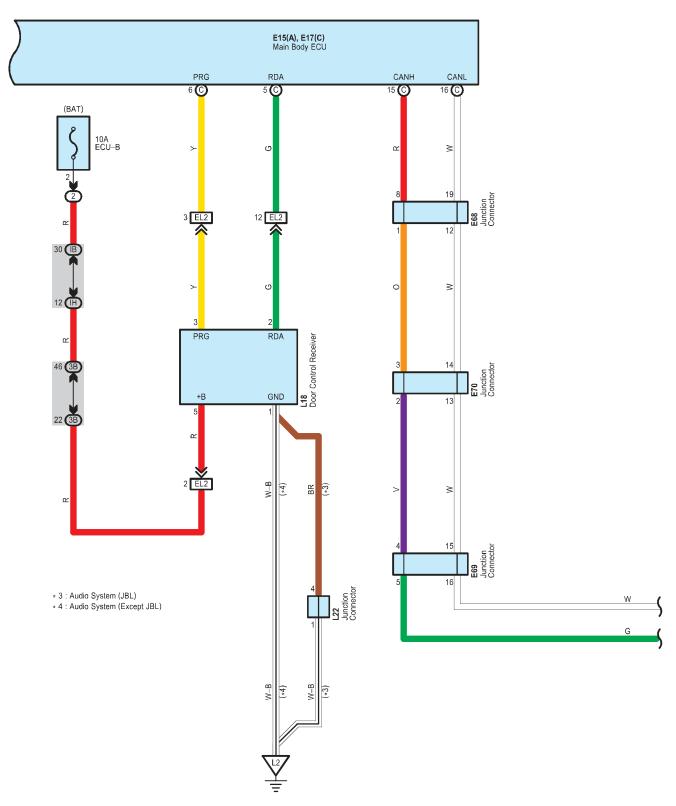


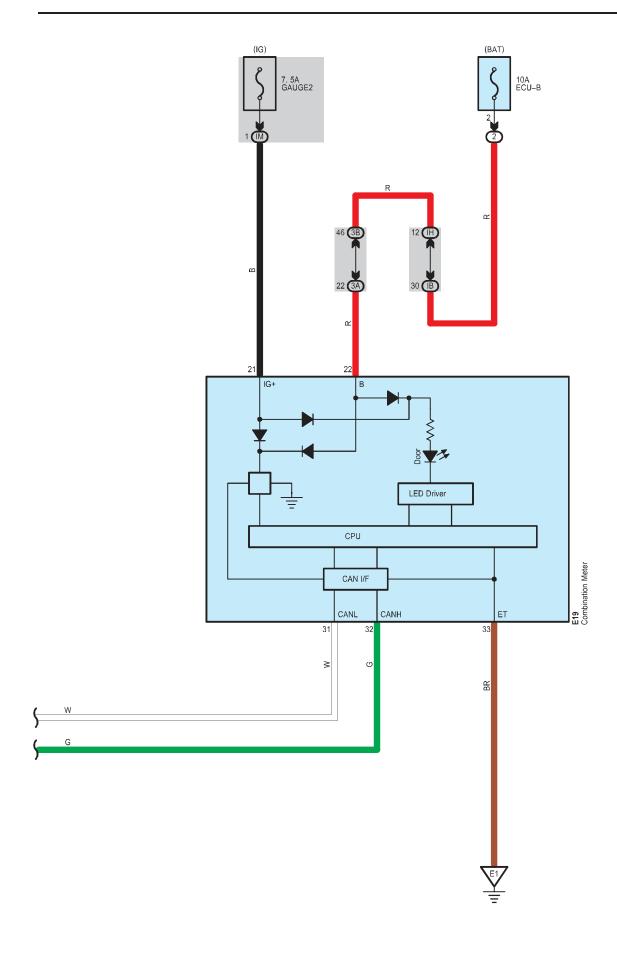


- * 1 : w/ Engine Immobiliser System * 2 : w/o Engine Immobiliser System









Interior Light

O : Parts Location

Co	de	See Page	Code	See Page	Code	See Page
E4		54	K7	59	P1	61
E5		54	K10	59	P2	61
Е	6	54	K16	59	P3	61
E15	Α	54	K18	59	P4	61
E17	С	54	K20	59	P5	61
E′	19	54	L8	60	P7	61
E6	68	55	L11	60	Q3	61
E69		55	L18	60	b1	57
E7	70	55	L22	60	b2	57

: Relay Blocks

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

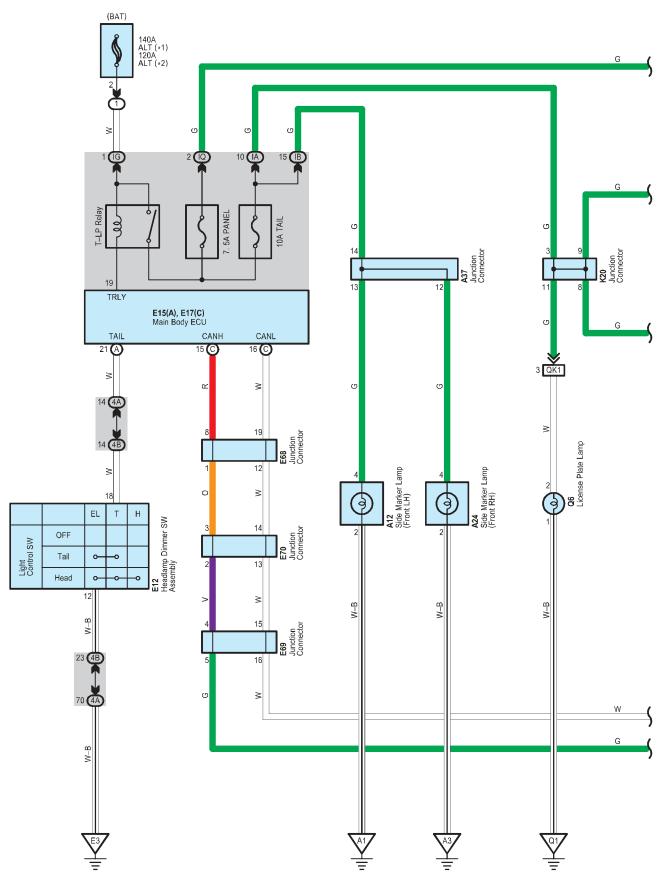
: Junction Block and Wire Harness Connector

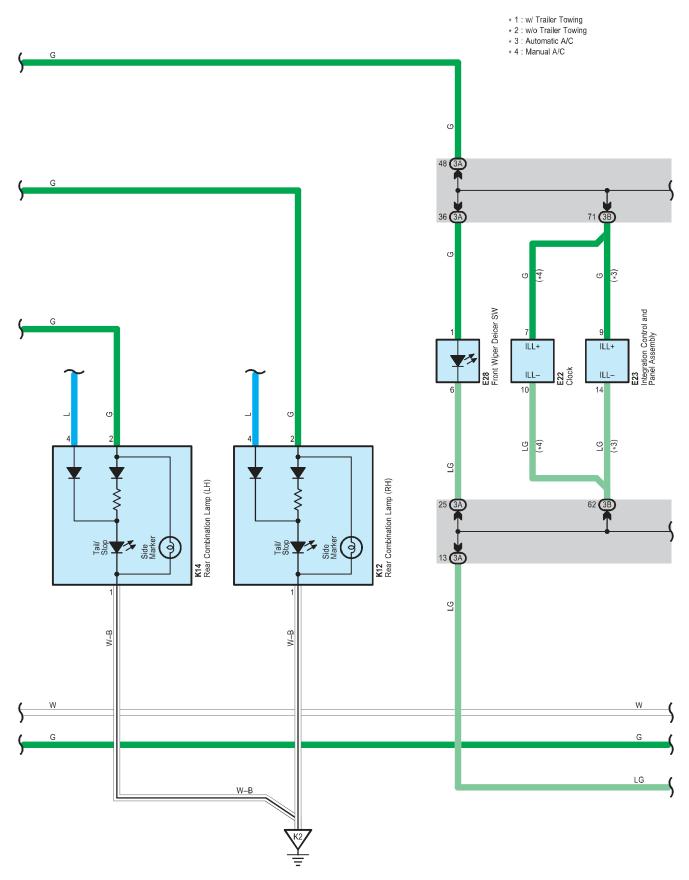
Code	See Page	Junction Block and Wire Harness (Connector Location)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	00				
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
4B	177	Inistrument Faner whe and 3/D No.4 (instrument Faner Center)			
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IC		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
ID	30				
IE	30	Inistrument Paner whe and instrument Paner 3/D (Cown Side Left)			
IH					
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)			
IM	- 31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IS	31	instrument ranei whe and instrument ranei 3/D (COWI Side Lett)			

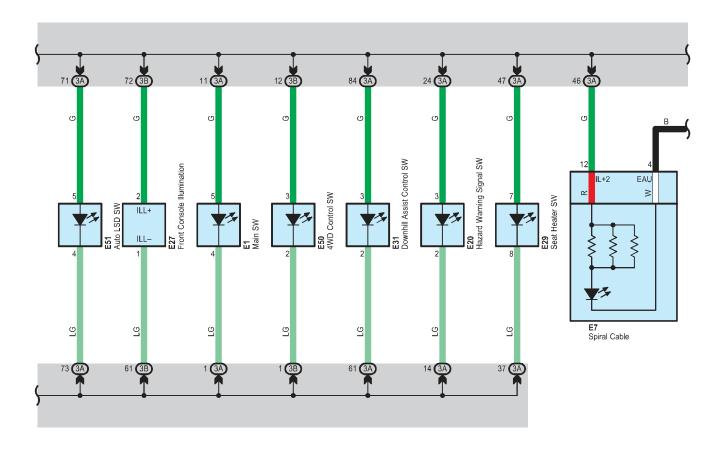
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)			
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel) Instrument Panel Wire and Illumination Wire (Instrument Panel Brace RH)			
EL2	00				
Eb1	66				
QK1 67 Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)		Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)			

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

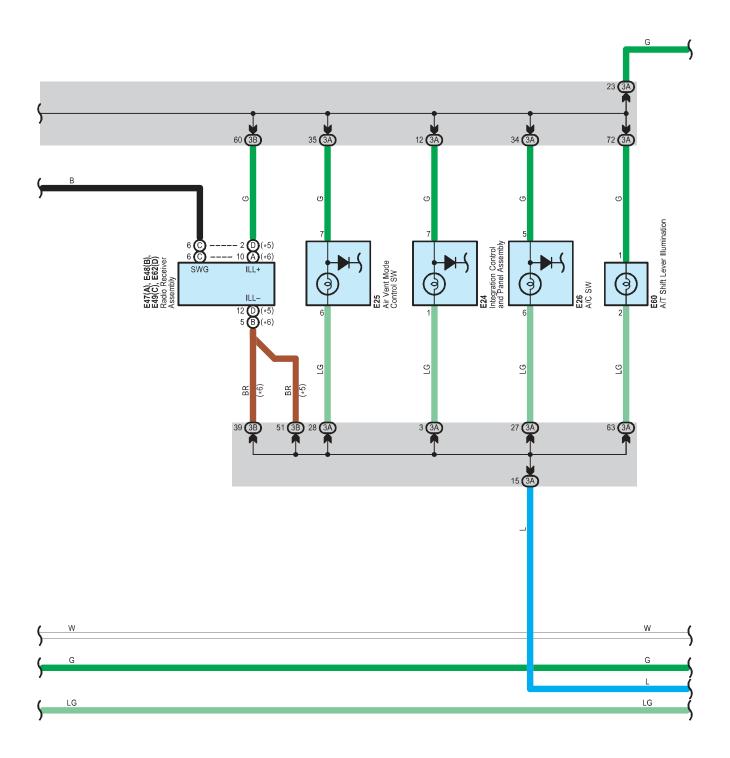


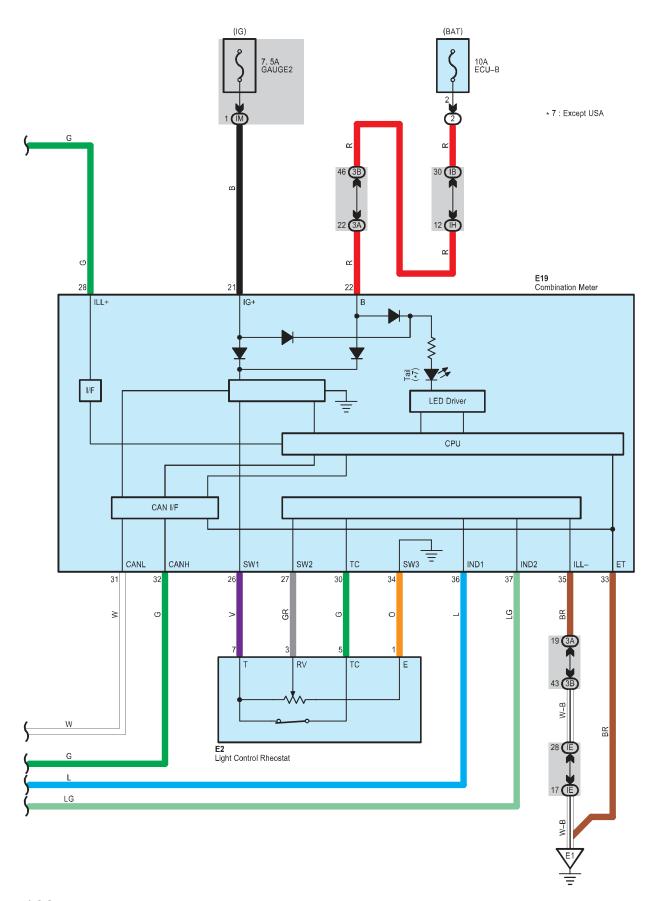






- * 5 : Audio System (JBL) * 6 : Audio System (Except JBL)





Code		See Page	Co	de	See Page	Co	de	See Page
A12		50 (2GR-FE)	E2	20	54	E49	С	55
		52 (2AZ-FE)	E2	22	54	E5	50	55
Δ,	24	50 (2GR-FE)	E23		54	E51		55
	2 -4	52 (2AZ-FE)	E2	24	54	E6	60	55
A	37	56	E2	25	54	E62	D	55
Е	1	54 E2		26	54	E68		55
Е	2	54	E2	27	54	E6	69	55
E7		54		28	54	E7	70	55
E12		54	E2	29	54	K1	12	59
E15 A		54	E31		54	K1	14	59
E17 C		54	E47	А	55	K2	20	59
E19		54	E48	В	55	Q	6	61

: Relay Blocks

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

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30				
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
4B	44	instrument raner wire and 5/0 No.4 (instrument raner Certter)			
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IH	30				
IM	- 31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IQ	31				

: Connector Joining Wire Harness and Wire Harness

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

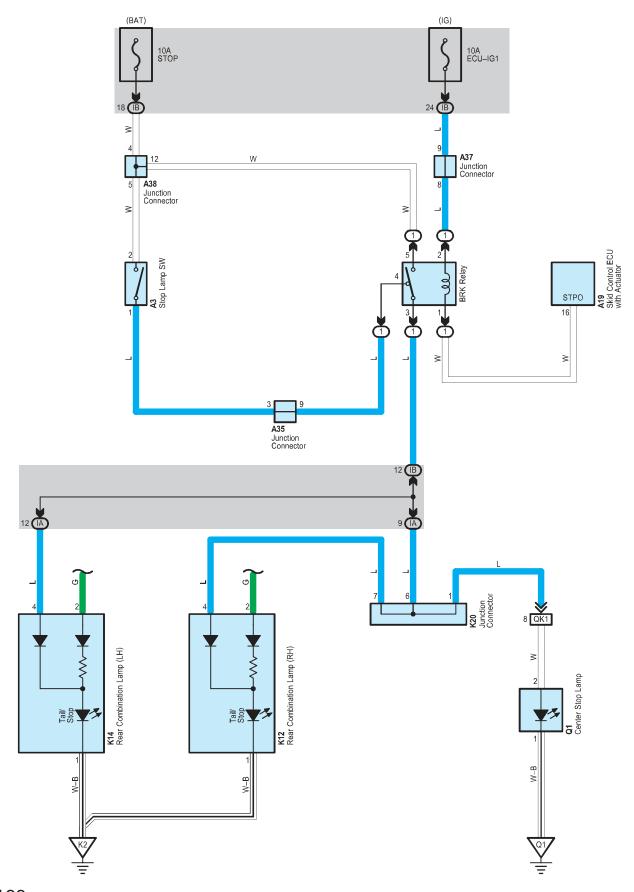
Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
_ ^'	65 (2AZ-FE)	FIONE Leit Fender	
А3	64 (2GR-FE)	ront Right Fender	
AS	65 (2AZ-FE)	FIUIR NIGHT FEHRE	
E1	66	Left Kick Panel	
E3	66	nstrument Panel Reinforcement Center	
K2	67	Left Quarter Panel	
Q1	67 Left Side of the Back Door		



Code	See Page	Code	See Page	Code	See Page
A5	56				

: Relay Blocks

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



Г	Code See Page		Code	See Page	Code	See Page
А3		56	A37	56	K20	59
Г	A19	50 (2GR-FE)	A38	56	Q1	61
	Al9	52 (2AZ-FE)	K12	59		
A35		56	K14	59		

: Relay Blocks

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

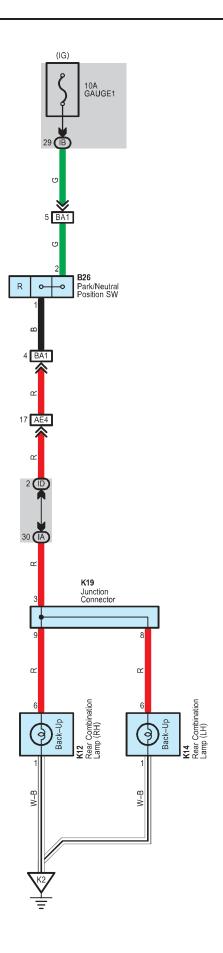
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

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



Code	See Page	Code	See Page	Code	See Page
B26	51 (2GR-FE)	K12	59	K19	59
D20	53 (2AZ-FE)	K14	59		

: Junction Block and Wire Harness Connector

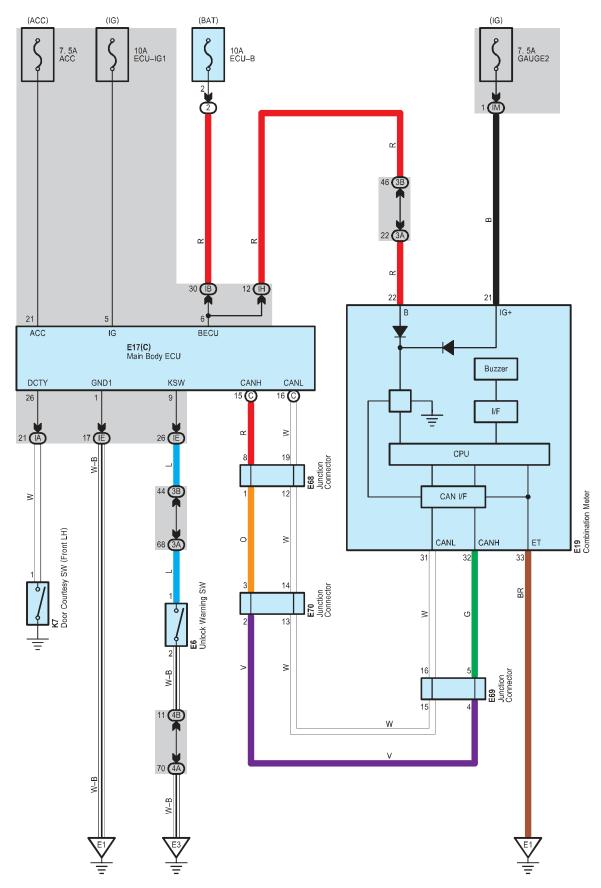
Code	See Page	nction Block and Wire Harness (Connector Location)				
IA	30	Wire and Instrument Panel J/B (Cowl Side Left)				
IB	30	gine Room Main Wire and Instrument Panel J/B (Cowl Side Left)				
ID	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	loining Wire Harness and Wire Harness (Connector Location)					
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)					
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)					
DAI	65 (2AZ-FE)	Lingine while and Engine Nooth Main while (inside of the Engine Nooth No.1 and Engine Nooth 3/5 No.1)					

abla

Ī	Code	See Page	Ground Points Location
I	K2		



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

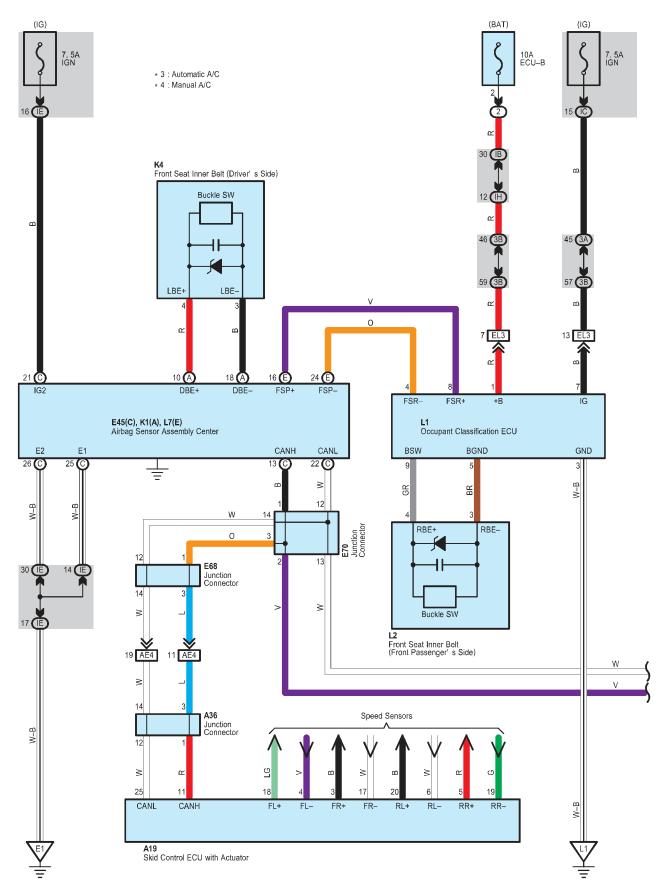
: Relay Blocks

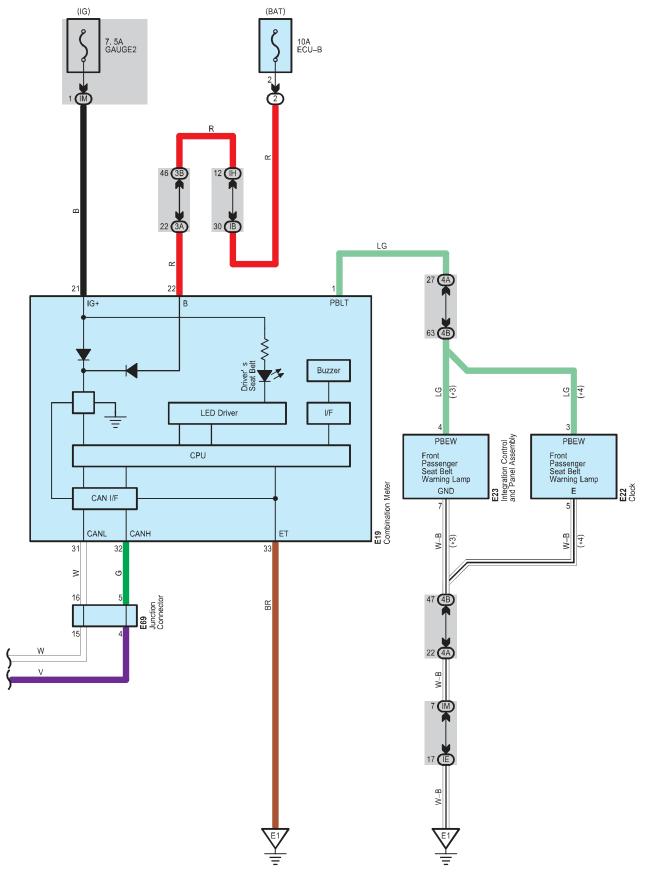
Code	See Page	Relay Blocks (Relay Block Location)					
2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)					
	27 (2AZ-FE)	Engine Room R/B No.2 (Engine Companine in Right)					

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)				
3B	36					
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)				
4B	44					
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)				
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)				
IE	30					
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)				
IM	31					

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





Seat Belt Warning

: Parts Location

Code	See Page Code		See Page	Code		See Page	
A19	50 (2GR-FE)	E23		54	K1	Α	57
Als	52 (2AZ-FE)	E45	С	55	K4		62
A36	56	E68		55	L	.1	62
E19	54 E69		55	L	2	62	
E22	54	E70		55	L7	Е	57

: Relay Blocks

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

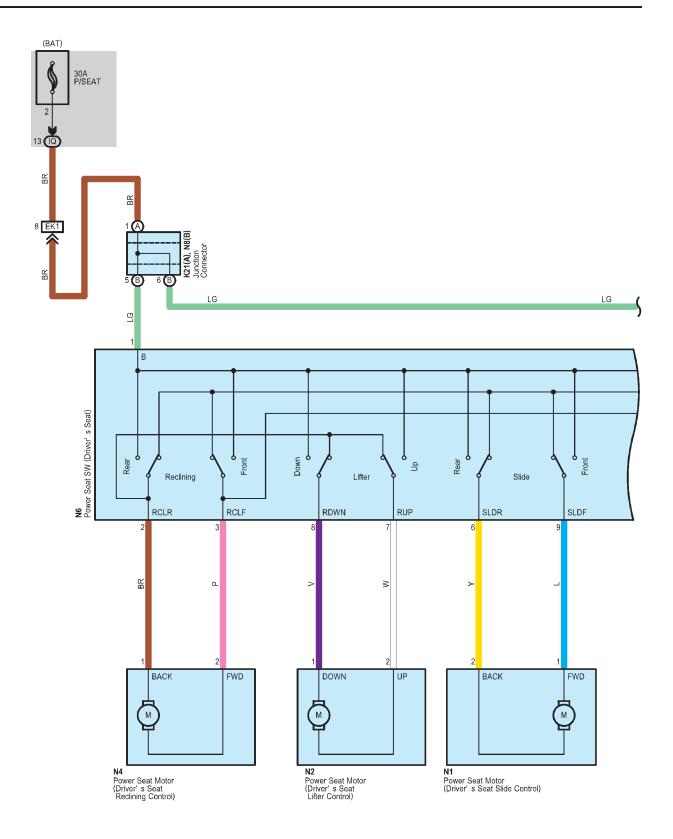
: Junction Block and Wire Harness Connector

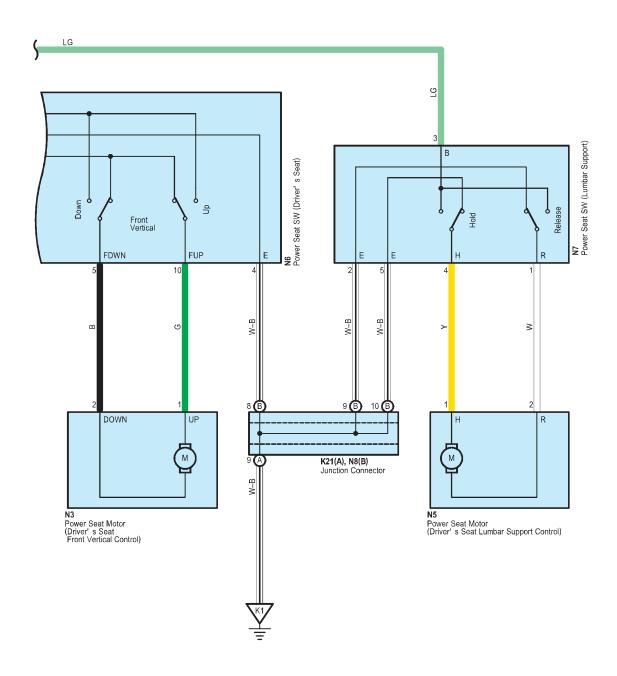
Code	See Page	Junction Block and Wire Harness (Connector Location)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	36				
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
4B		instrument and whe and o/b No.4 (instrument and benter)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IC					
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IH					
IM	31				

: Connector Joining Wire Harness and Wire Harness

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

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





Power Seat

: Parts Location

Co	de See Page		Code	See Page	Code		See Page
K21	Α	62	N3	62	N6		62
N	1	62	N4	62	١	17	62
N2		62	N5	62	N8	В	62

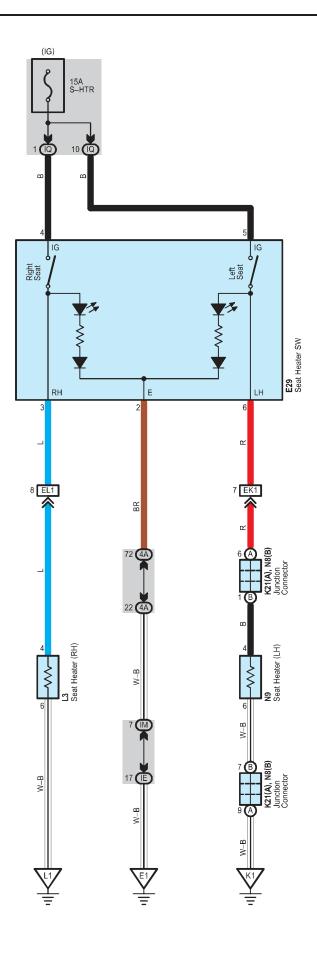
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

Code	See Page	Ground Points Location
K1	67	Left Center Pillar



	Code		See Page	Code		See Page	Code	See Page
	E29		54	L	3	62	N9	62
Ī	K21	Α	62	N8	В	62		

0

: Junction Block and Wire Harness Connector

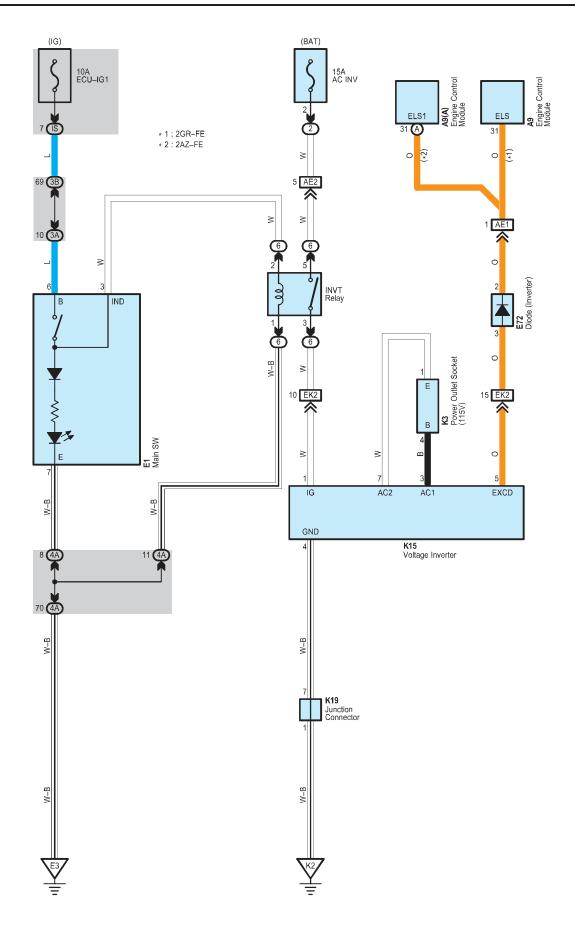
Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
ΙE	30	
IM	21	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IQ	31	

: Connector Joining Wire Harness and Wire Harness

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

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



Co	ode	See Page	Code	See Page	Code	See Page
A9	Δ	50 (2GR-FE)	E72	55	K19	59
Α3	Α	52 (2AZ-FE)	K3	57		
E1		54	K15	59		

: Relay Blocks

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

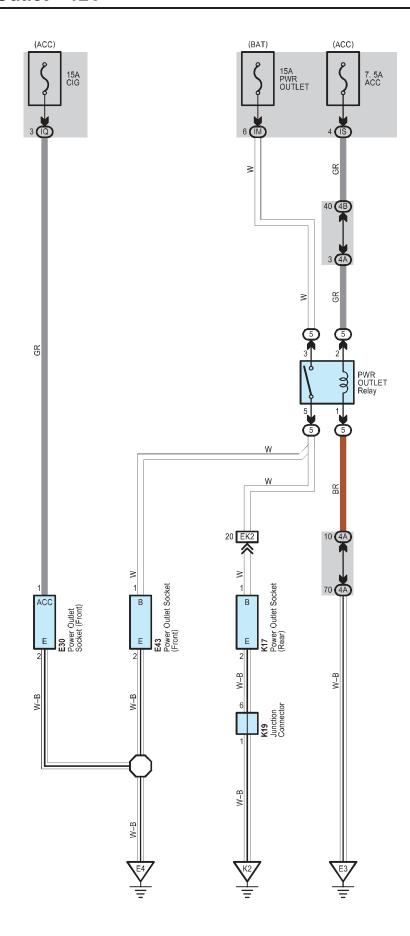
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

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



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

: Relay Blocks

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

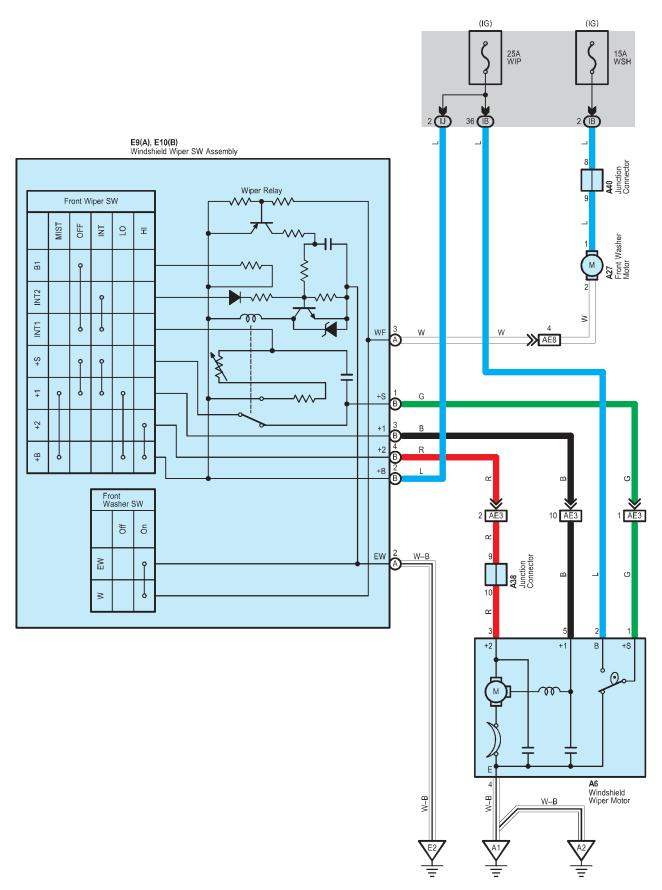
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

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



Code	See Page	Code	See Page	Co	de	See Page
A6	50 (2GR-FE)	0 (2GR–FE) A27 52 (2AZ–FE)		A40		52 (2AZ-FE)
Ao	52 (2AZ-FE)	A38	56	E9	Α	54
A27	A27 50 (2GR-FE)		50 (2GR-FE)	E10	В	54

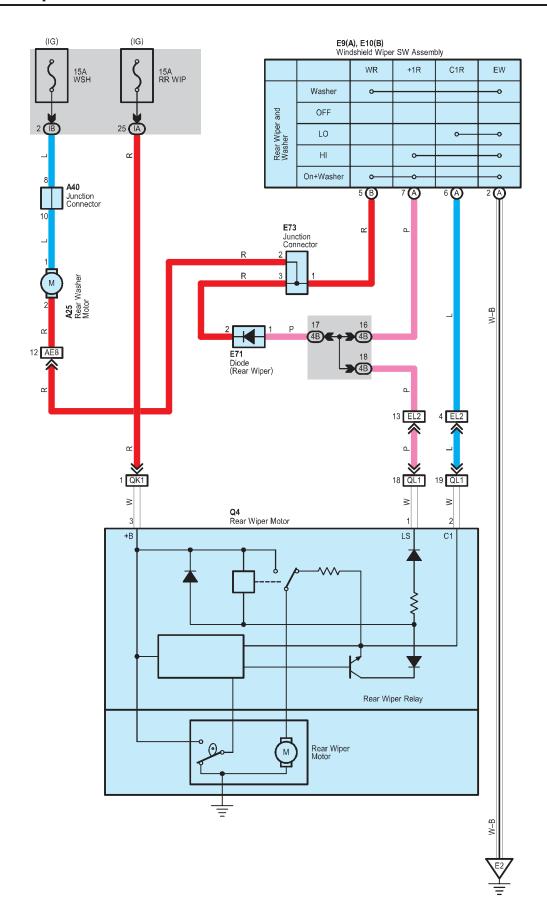
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

Code	See Page	Ground Points Location	
A1	64 (2GR-FE)		
^'	65 (2AZ-FE)	Front Left Fender	
A2	64 (2GR-FE)	FIGUR Lett Ferruer	
A2	65 (2AZ-FE)		
E2	66	nstrument Panel Reinforcement Left	



Code	See Page	Co	de	See Page	Code	See Page
A25	50 (2GR-FE)	A	10	52 (2AZ-FE)	E71	55
AZJ	52 (2AZ-FE)	E9	Α	54	E73	55
A40	50 (2GR-FE)	E10	В	54	Q4	61

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: Junction Block and Wire Harness Connector

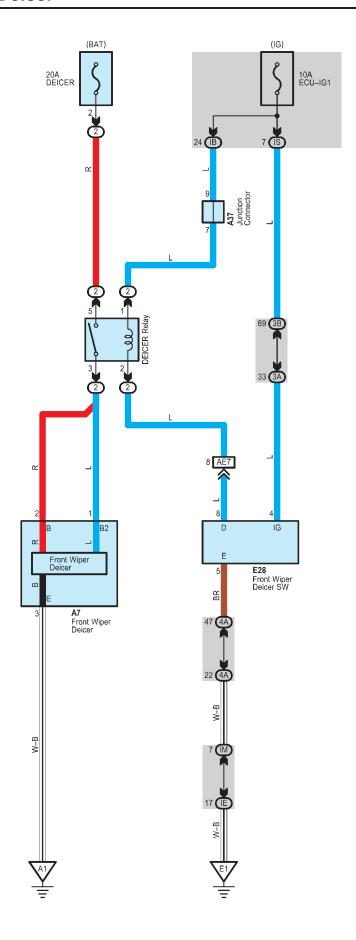
Code	See Page	Junction Block and Wire Harness (Connector Location)
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

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

∇

I	Code	See Page	round Points Location	
I	E2	66	Instrument Panel Reinforcement Left	



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

: Relay Blocks

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

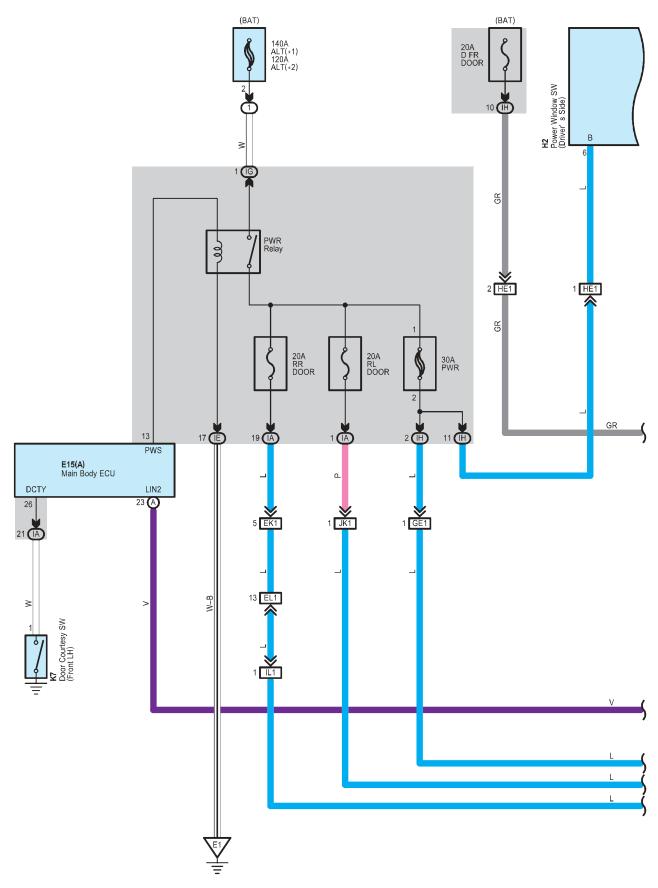
: Junction Block and Wire Harness Connector

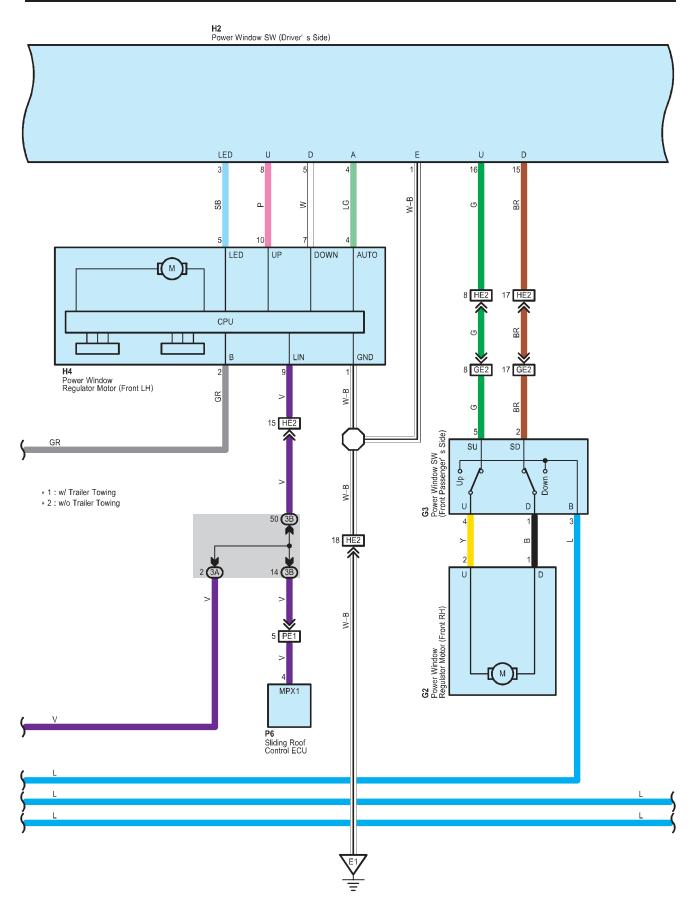
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	36	inistrument Paner whe and 3/B No.3 (instrument Paner Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IS	31	

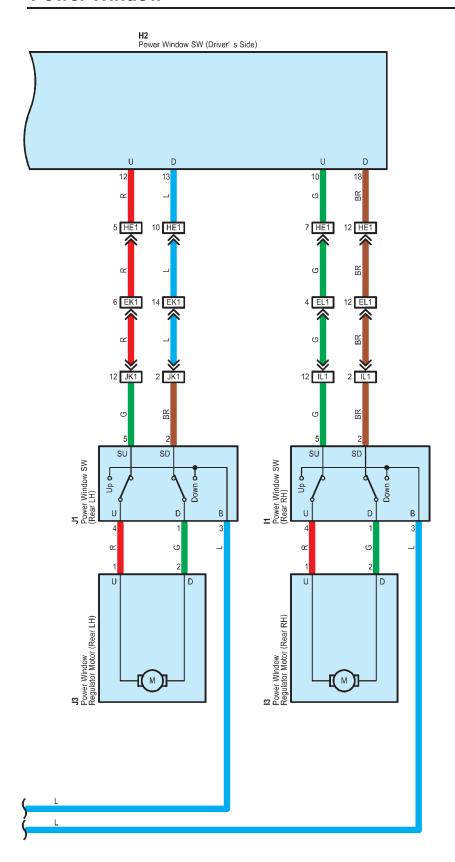
: Connector Joining Wire Harness and Wire Harness

Ī	Code	e See Page Joining Wire Harness and Wire Harness (Connector Location)	
Ī	AE7	Figure 1 66 Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)	

Γ	Code	See Page	Ground Points Location
Γ	A1	64 (2GR-FE)	Front Left Fender
	AI	65 (2AZ-FE)	Tionic Lett's Grader
Γ	E1	66	Left Kick Panel







Code		See Page	Code	See Page	Code	See Page
E15 A		54	H4	58	J3	58
G2		58	I1	58	K7	59
G3		58	13	58	P6	61
H2		58	J1	58		

: Relay Blocks

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

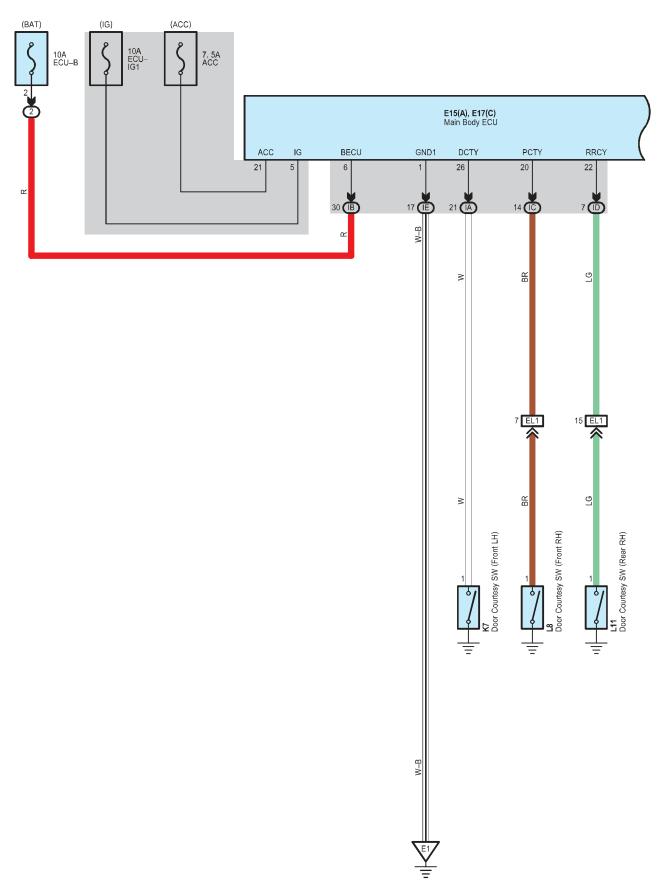
: Junction Block and Wire Harness Connector

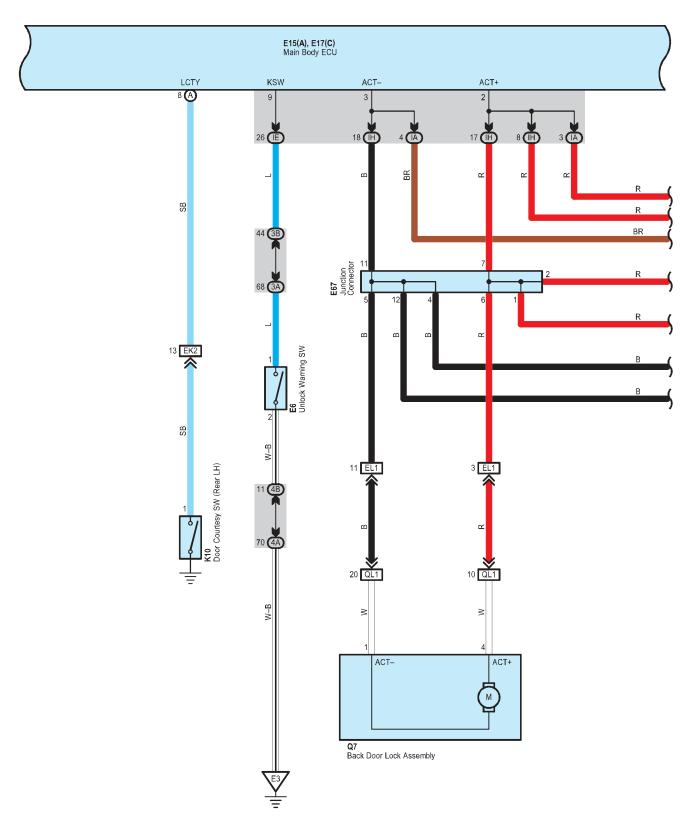
Code See Page Junction Block and Wire Harness (Connector Location)		Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	36	
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IE 30 Instrument Panel Wire and Instrument Panel J/B (Cowl Side		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IG	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

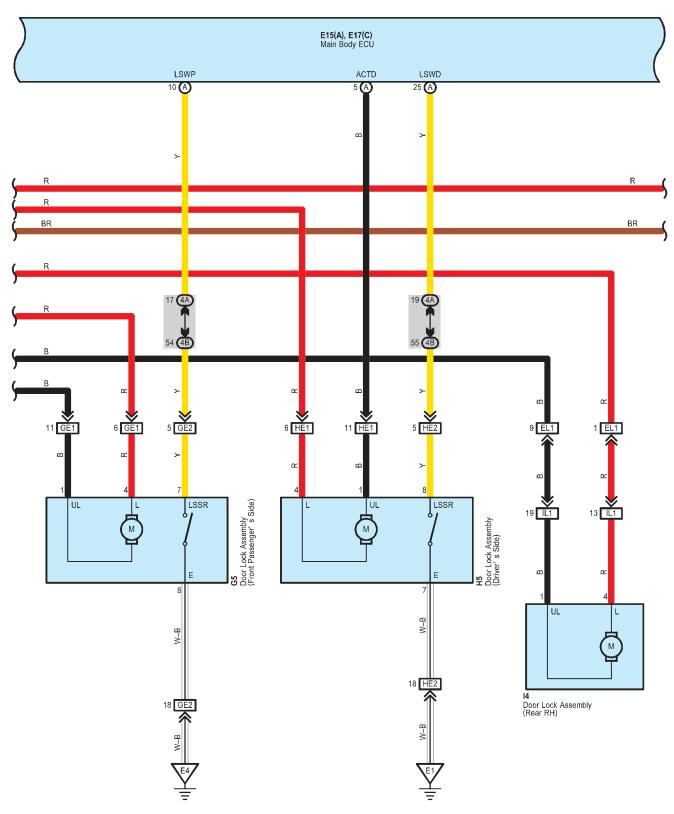
: Connector Joining Wire Harness and Wire Harness

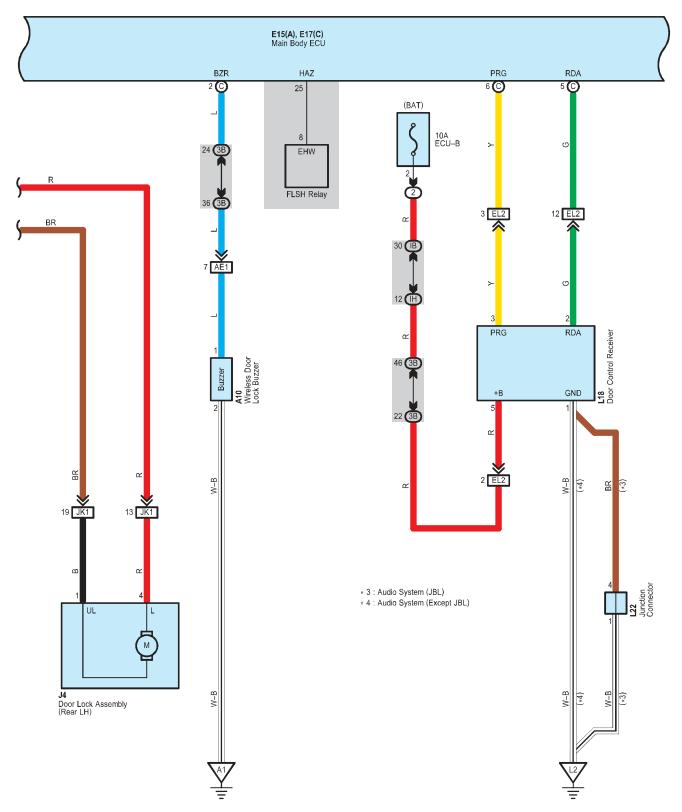
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)	
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)	
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)	
GE2	00		
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)	
HE2	00		
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)	
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)	
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	

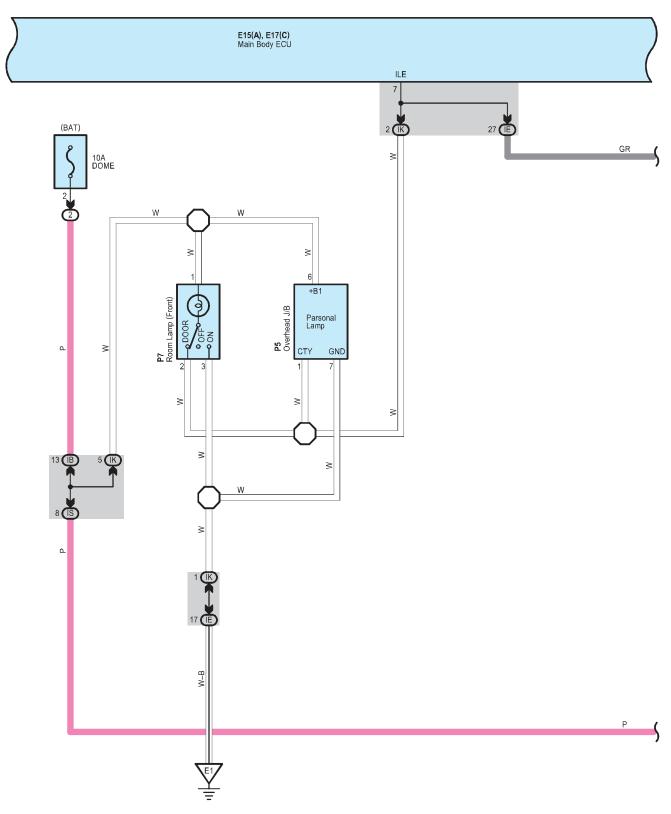
Code See Page Ground Points Location		See Page	
Ī	E1	66	Left Kick Panel

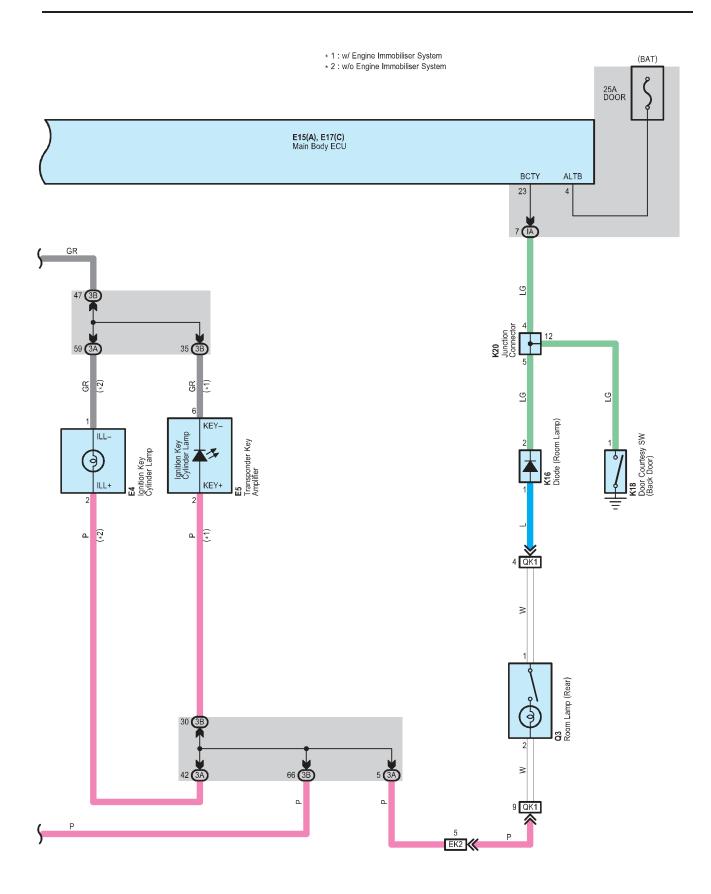












Wireless Door Lock Control

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A10		50 (2GR-FE)	H5	58	L11	60
		52 (2AZ-FE)	14	58	L18	60
E4		54	J4	58	L22	60
E5		54	K7	59	P5	61
Е	6	54	K10	59	P7	61
E15	Α	54	K16	59	Q3	61
E17 C		54	K18	59	Q7	61
E67		55	K20	59		
G5		58	L8	60	<u> </u>	

: Relay Blocks

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

: Junction Block and Wire Harness Connector

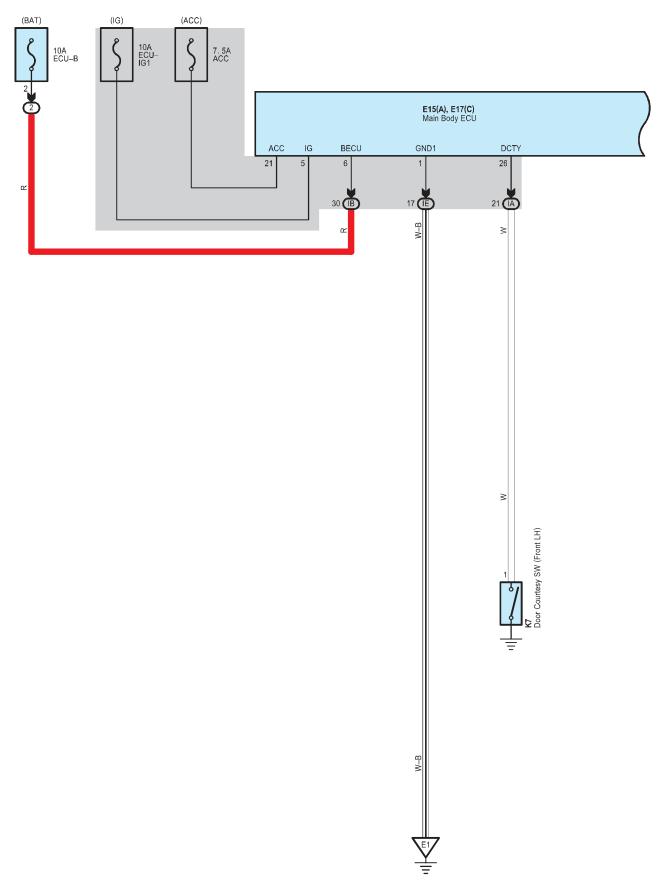
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
3B] 30			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B] ***	instrument ranet vvite and 3/D tvo.4 (instrument ranet celler)		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
IC		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
ID	30			
IE	7 30	Institution trailer wife and institution trailer 3/b (Cowi Side Lett)		
IH]			
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)		
IS	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		

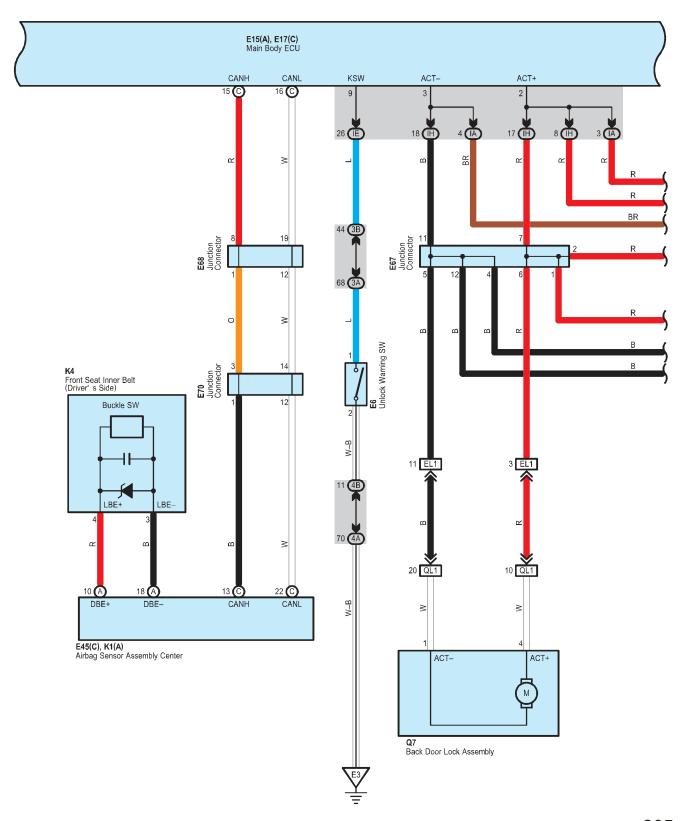
: Connector Joining Wire Harness and Wire Harness

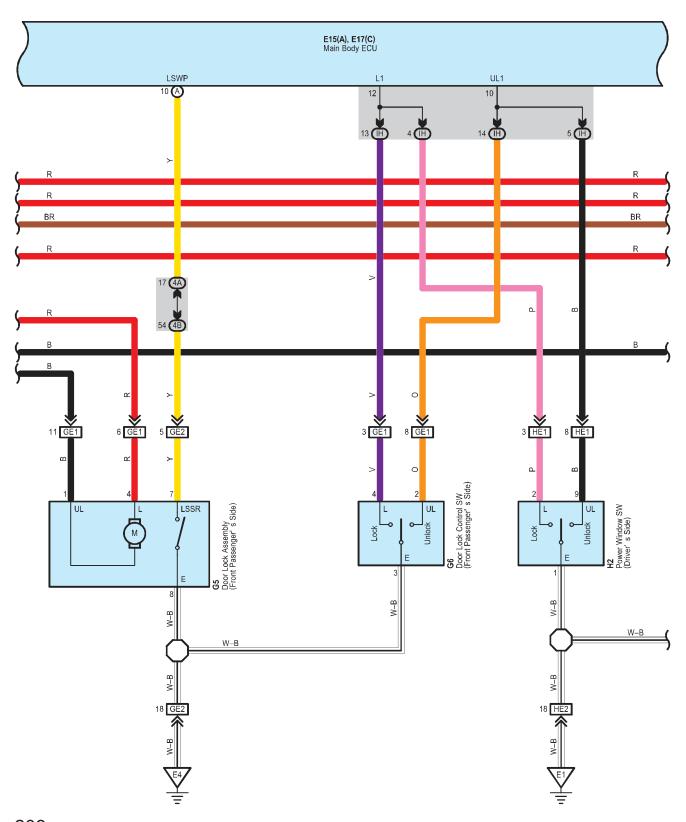
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EL2		instrument Paner Wile and Floor No.2 Wile (Night Nick Paner)
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2	7 00	
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2	00	
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
QK1	67	Back Door No.1 Wire and Floor Wire (Right Rear Quarter Panel)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

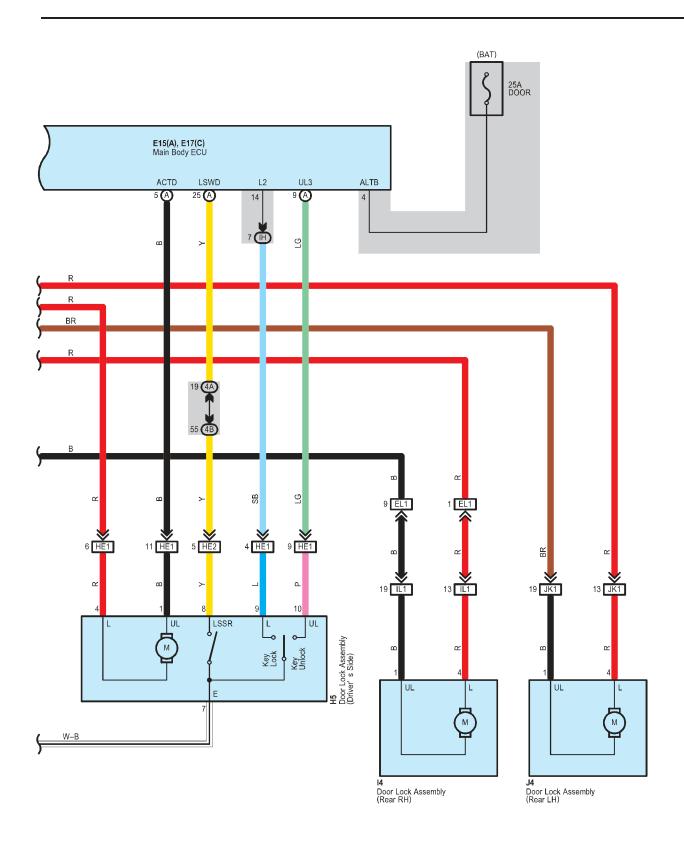


Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
Α1	65 (2AZ–FE)	Fiorit Leit Ferider	
E1	66	Left Kick Panel	
E3	66	strument Panel Reinforcement Center	
E4	66	Right Kick Panel	
L2	67	Right Quarter Panel	









Door Lock Control

O : Parts Location

Co	de	See Page	Code	See Page	Code		See Page
Е	6	54	E70 55 J4		4	58	
E15	Α	54	G5	58	K1	Α	57
E17	С	54	G6	58	K	4	62
E45	С	55	H2	58	K	7	59
E6	67	55	H5	58	Q	7	61
E68		55	14	58			

: Relay Blocks

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

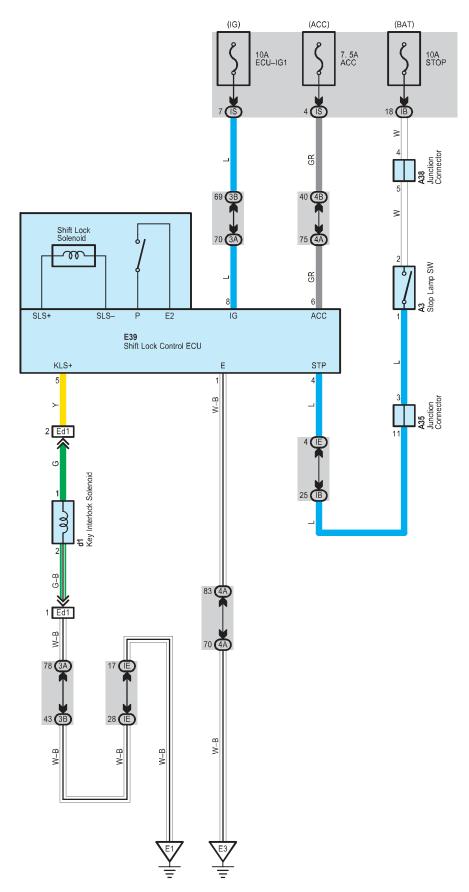
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	30	Inistrument Paner Wile and 3/D No.3 (inistrument Paner Center)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B	1 44	instrument ratio wife and 5/D 140.4 (instrument ratio Cellel)
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH	30	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
GE1	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2	- 00	
HE1	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		Tront Door Erryvine and institutioner wine (Lett Nok Fallet)
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

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



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

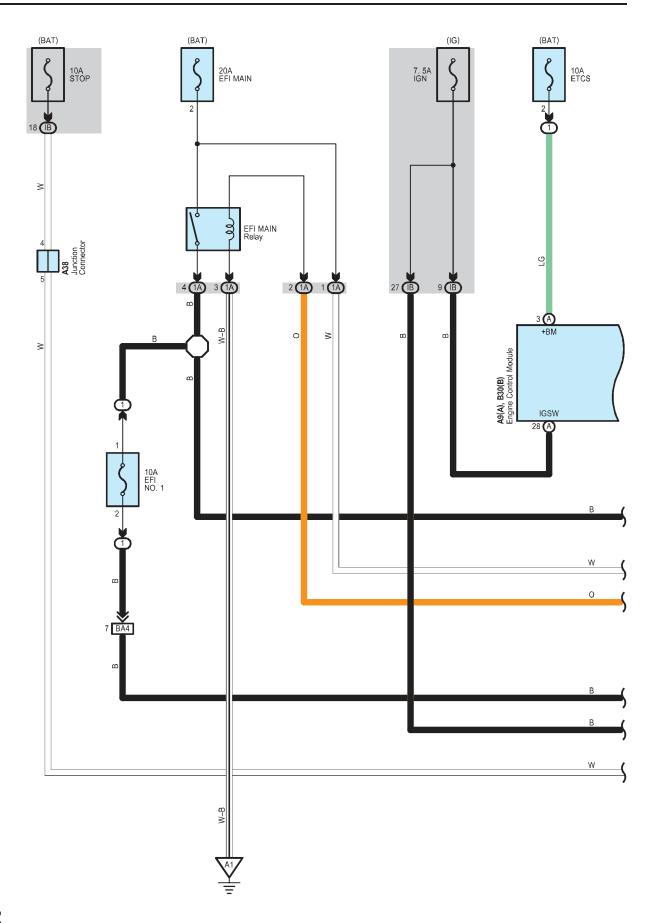
: Junction Block and Wire Harness Connector

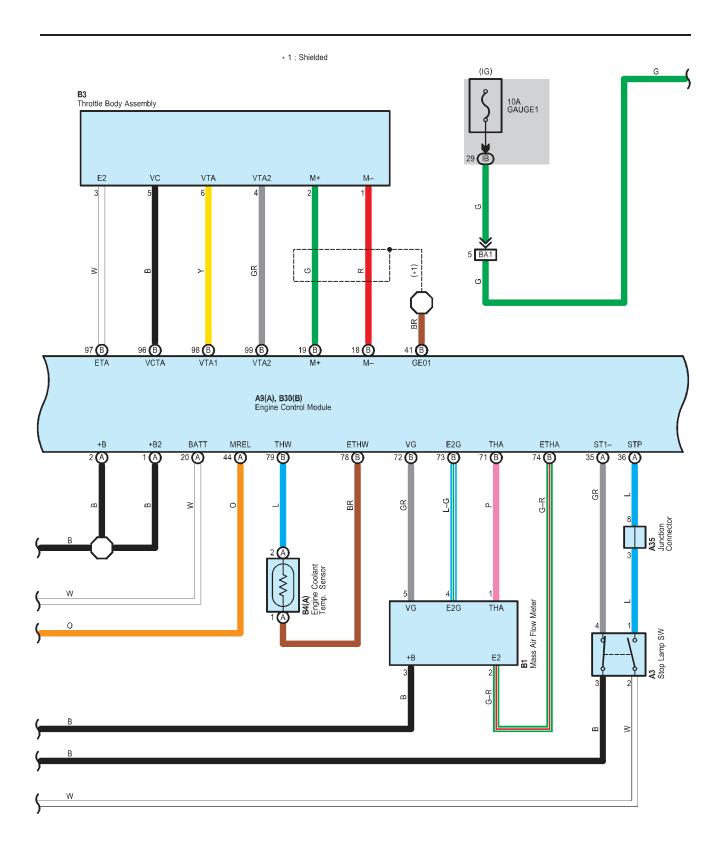
Code	See Page	Junction Block and Wire Harness (Connector Location)	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
3B	30	inistrante it railet wille and 3/D No.3 (instrument railet Genter)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
4B	**	Institutional and wire and 5/5 No.+ (institutional and Genter)	
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IS	31	instrainent ranet whe and instrainent ranet 3/D (Cowi Side Lett)	

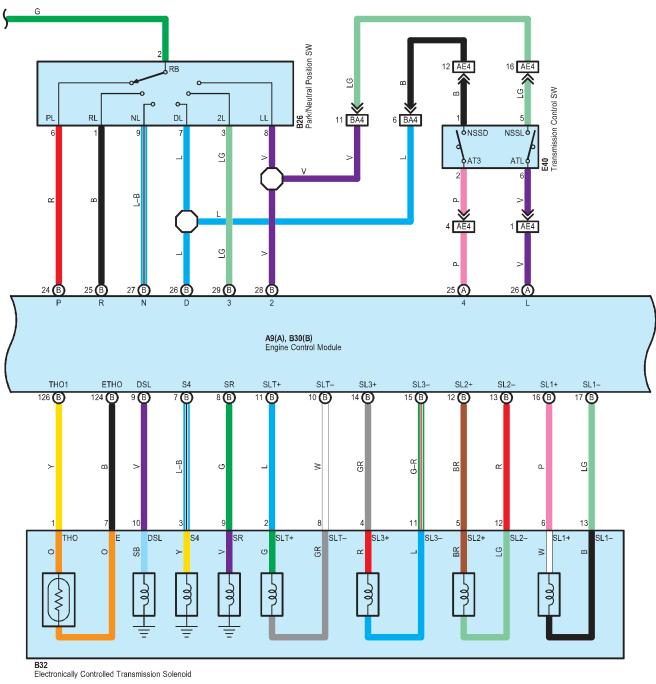
: Connector Joining Wire Harness and Wire Harness

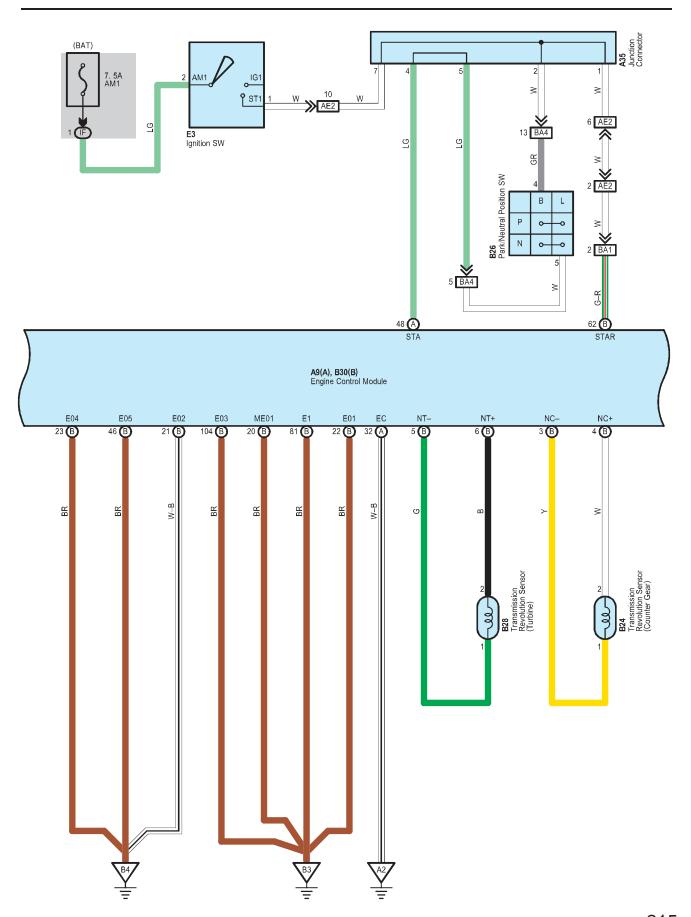
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
Ed1	66	Instrument Panel Wire and Solenoid Wire (Steering Column)

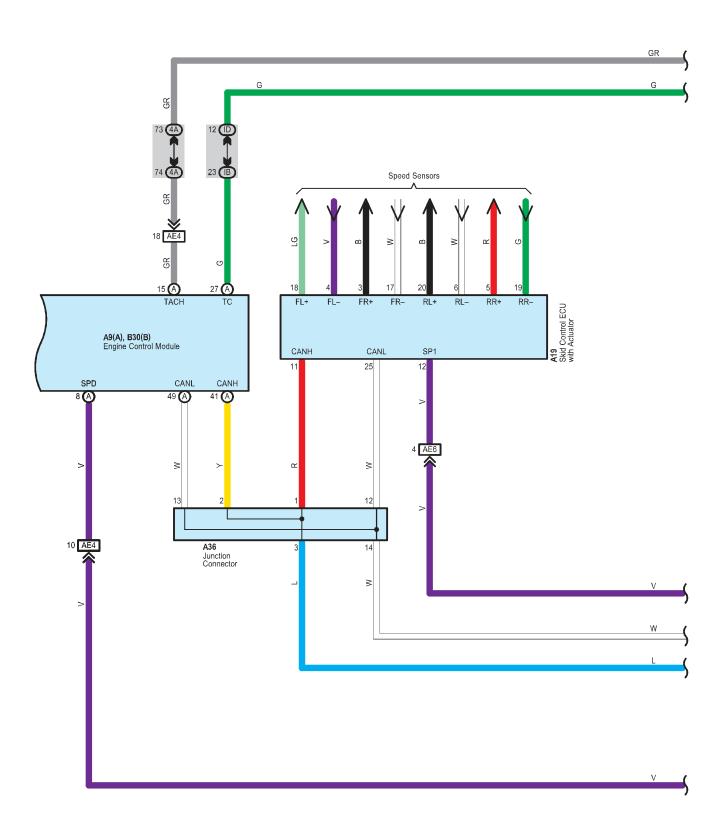
Code	See Page	round Points Location	
E1	66	Left Kick Panel	
E3	66	Instrument Panel Reinforcement Center	

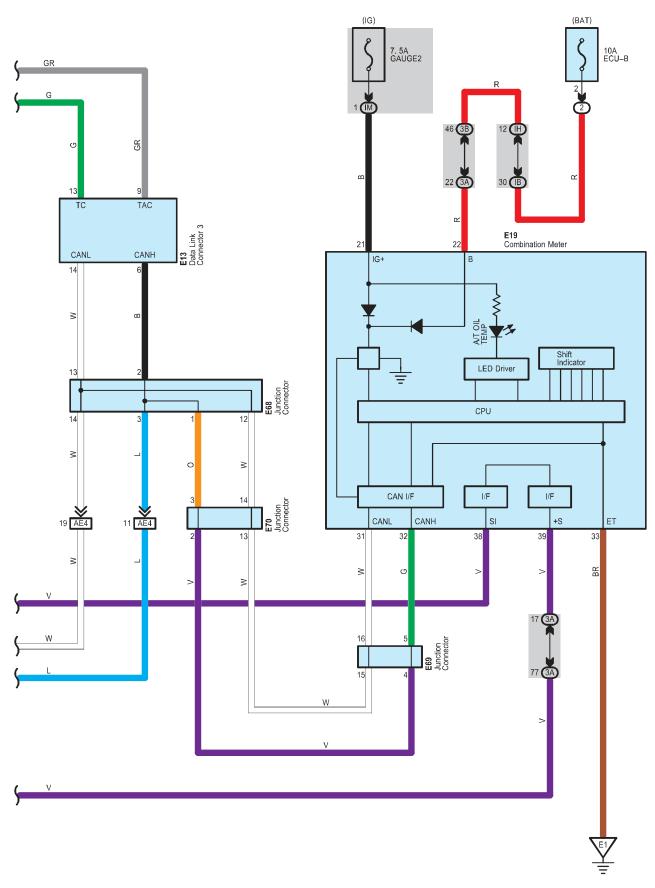












ECT and A/T Indicator for 2GR-FE

System Outline

1. Line Pressure Optimal Control

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

2. Clutch Pressure Optimal Control

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

3. Shifting Control in Uphill/Downhill Traveling

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

4. Flex Lock-Up Clutch Control

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

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
F	/3	56	B3		51 (2GR-FE)	E3	54
A9	A9 A 50 (2GR–FE)		B4	Α	51 (2GR-FE)	E13	54
А	19	50 (2GR-FE)	B24		51 (2GR-FE)	E19	54
Α	35	56	B26		51 (2GR-FE)	E40	55
Α	36	56	B2	28	51 (2GR-FE)	E68	55
А	38	56	B30	В	51 (2GR-FE)	E69	55
Е	31	51 (2GR-FE)	B32		51 (2GR-FE)	E70	55

: Relay Blocks

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

Junction Block and Wire Harness Connector

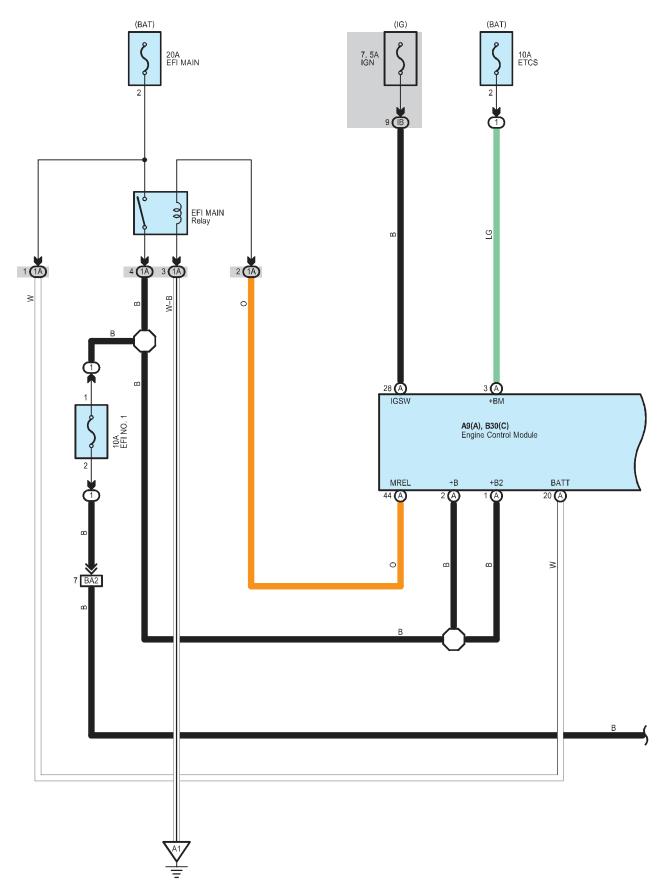
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
3A	- 38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30				
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IB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

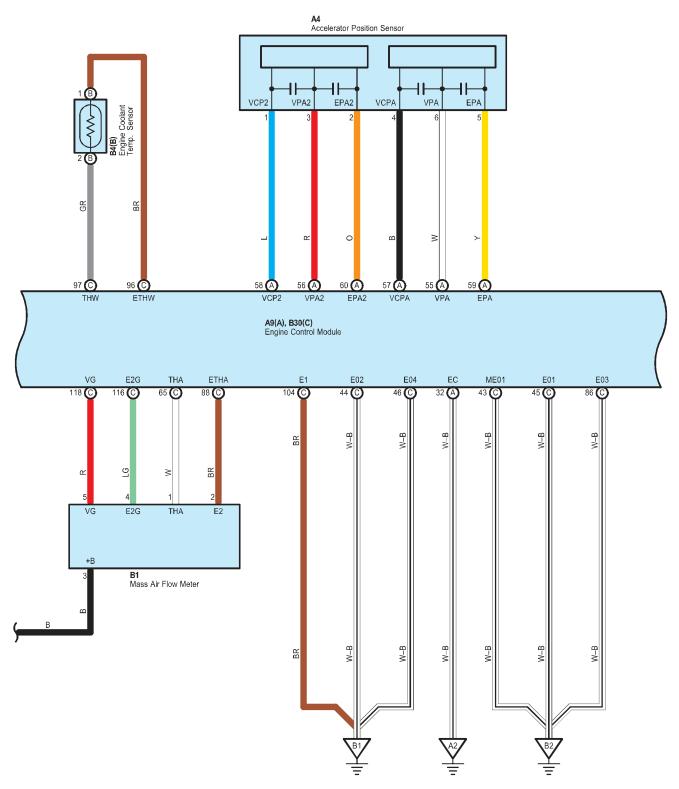
: Connector Joining Wire Harness and Wire Harness

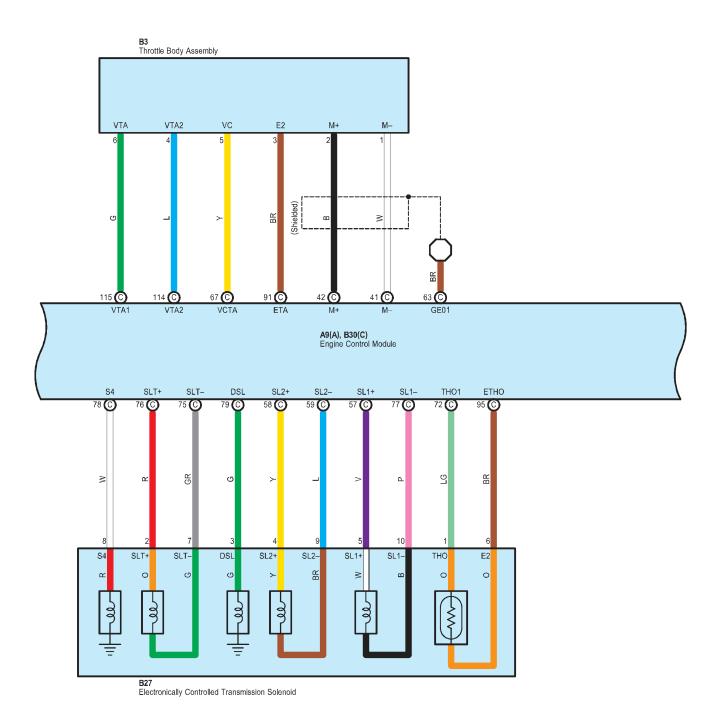
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE2					
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6					
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)			
BA4	04 (2011-1 L)	Eligine Wire and Eligine Room Main Wire (inside of the Eligine Room Ro. 1 and Eligine Room 3/5 No. 1)			

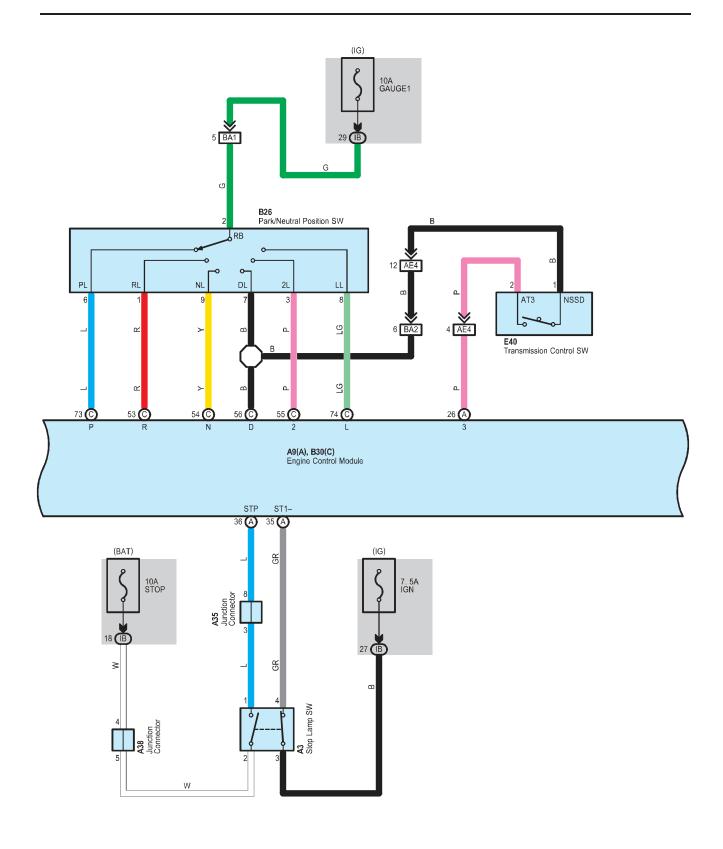


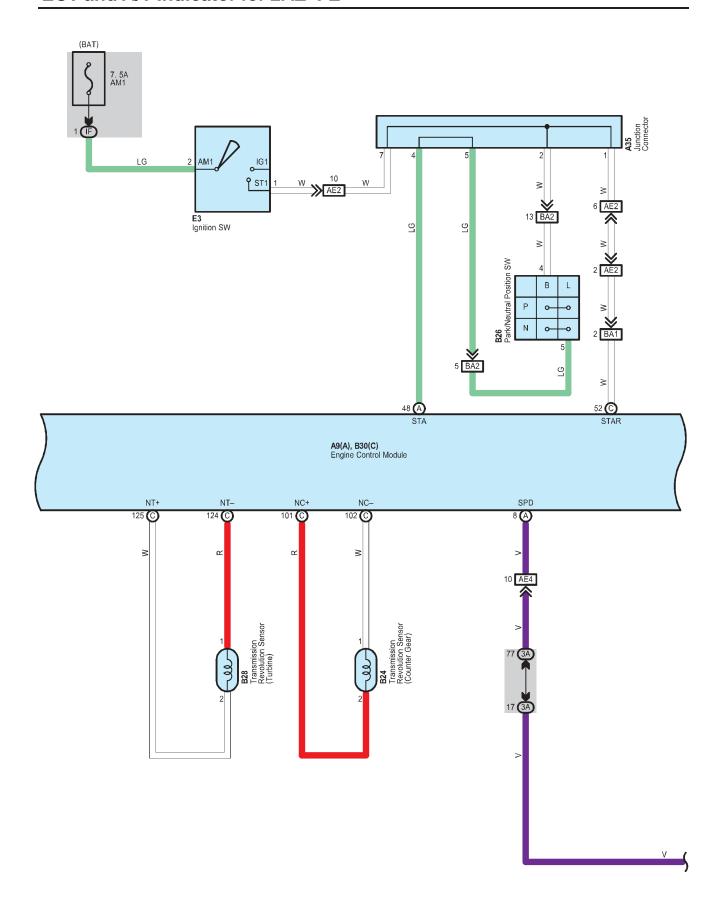
Code	See Page	Ground Points Location				
A1	64 (2GR-FE)	Front Left Fender				
A2	04 (2GIN-I L)	1 IOIIL LOILI GIUGI				
В3	64 (2GR-FE)	Left Side of the Cylinder Head				
B4	04 (2GK-FE)	Left Side of the Cylinder Head				
E1	66	Left Kick Panel				

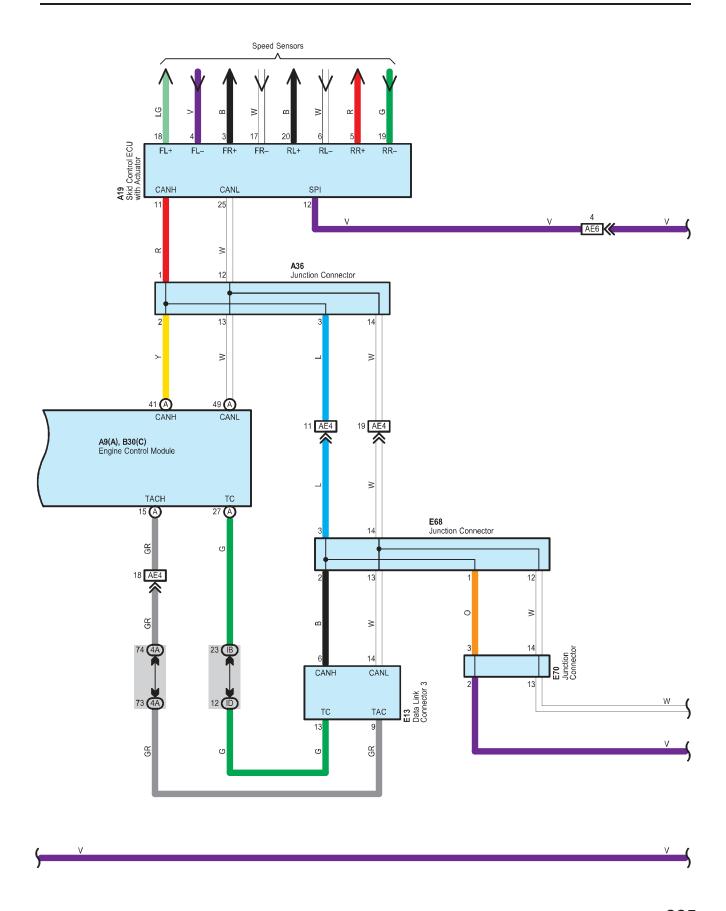


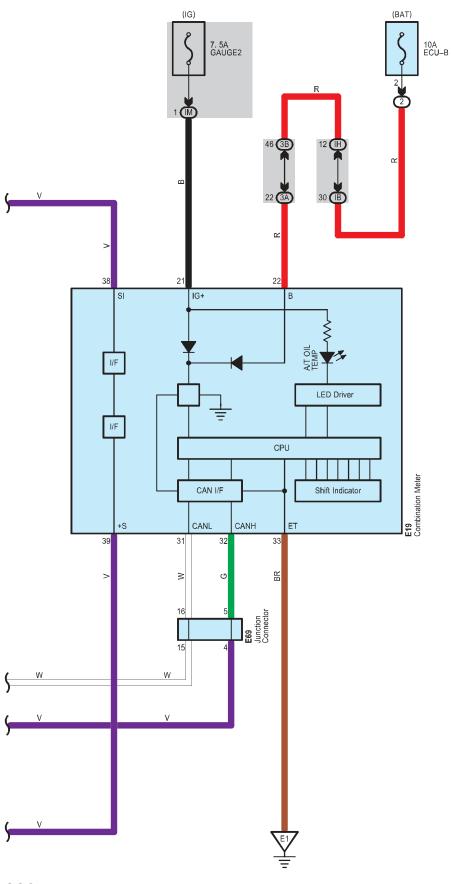












System Outline

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

1. Gear Shift Operation

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

2. Lock-Up Operation

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

3. Stop Lamp SW Circuit

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

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
Α	.3	56	B3		53 (2AZ-FE)	E13	54
Α	4	56	B4	В	53 (2AZ-FE)	E19	54
A9	Α	52 (2AZ-FE)	B24		53 (2AZ-FE)	E40	55
А	19	52 (2AZ-FE)	B26		53 (2AZ-FE)	E68	55
A	35	56	B27		53 (2AZ-FE)	E69	55
Α	36	56	B28		53 (2AZ-FE)	E70	55
Α	38	56	B30	С	53 (2AZ-FE)		
Е	31	53 (2AZ-FE)	E3		54		

: Relay Blocks

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

: Junction Block and Wire Harness Connector

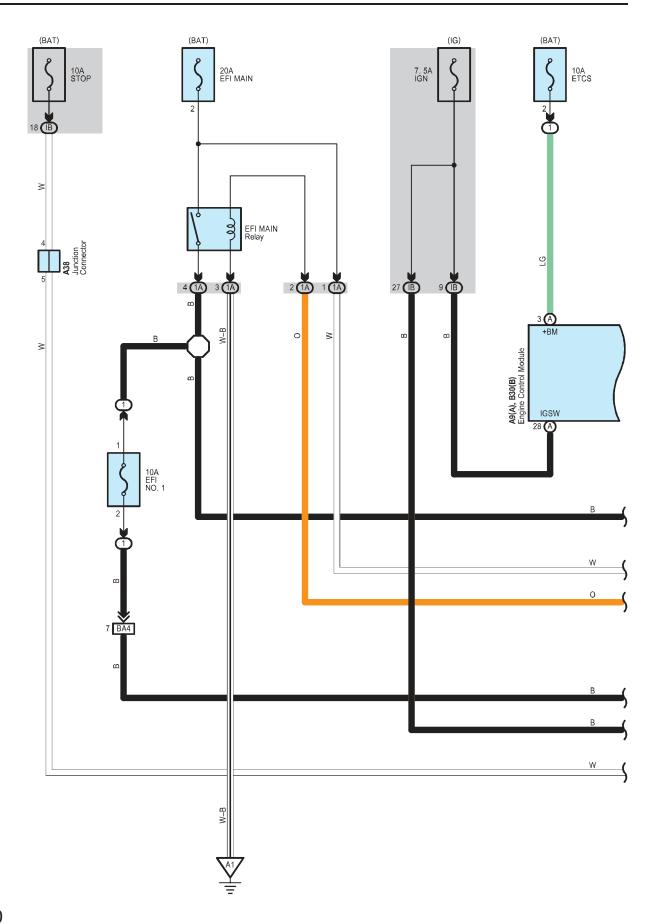
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)				
3B	. 30					
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	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

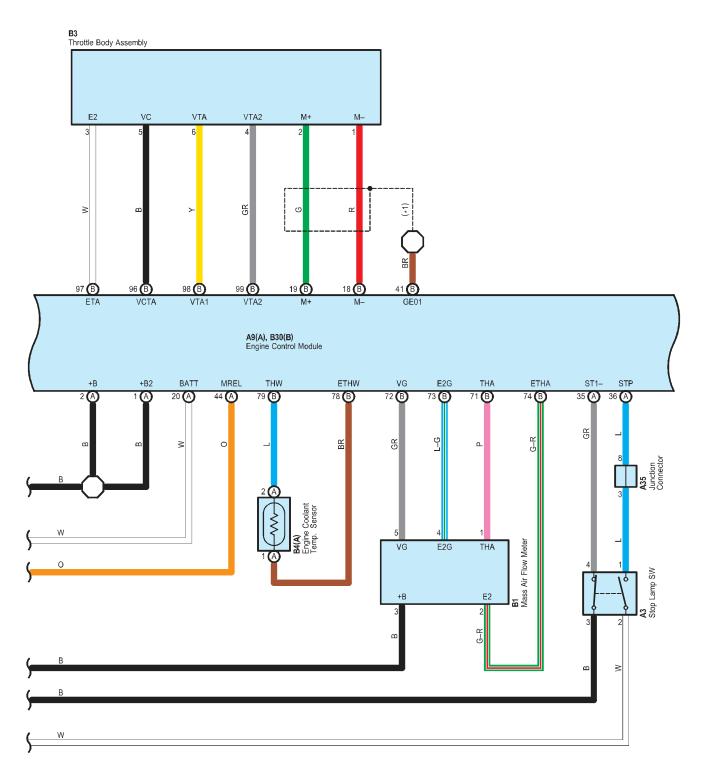
ECT and A/T Indicator for 2AZ-FE

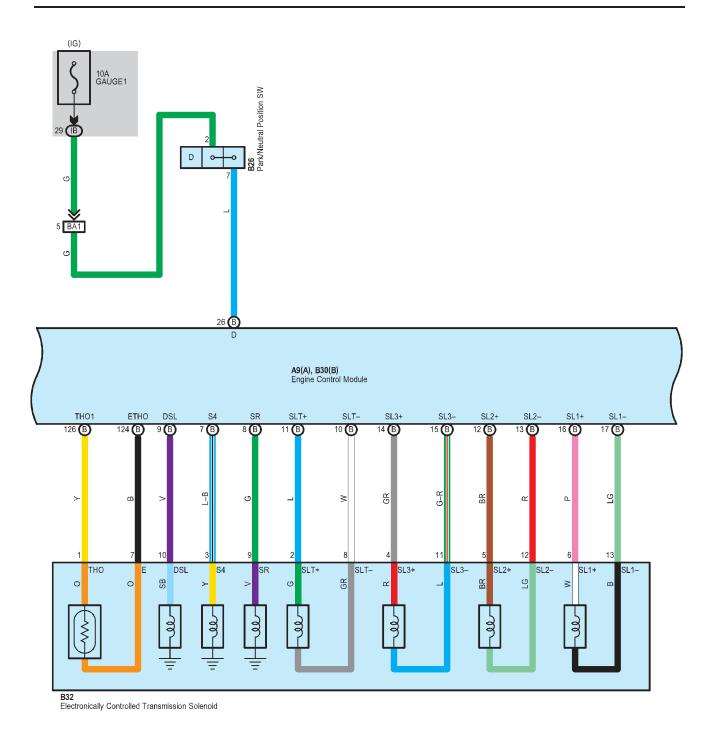
: Connector Joining Wire Harness and Wire Harness

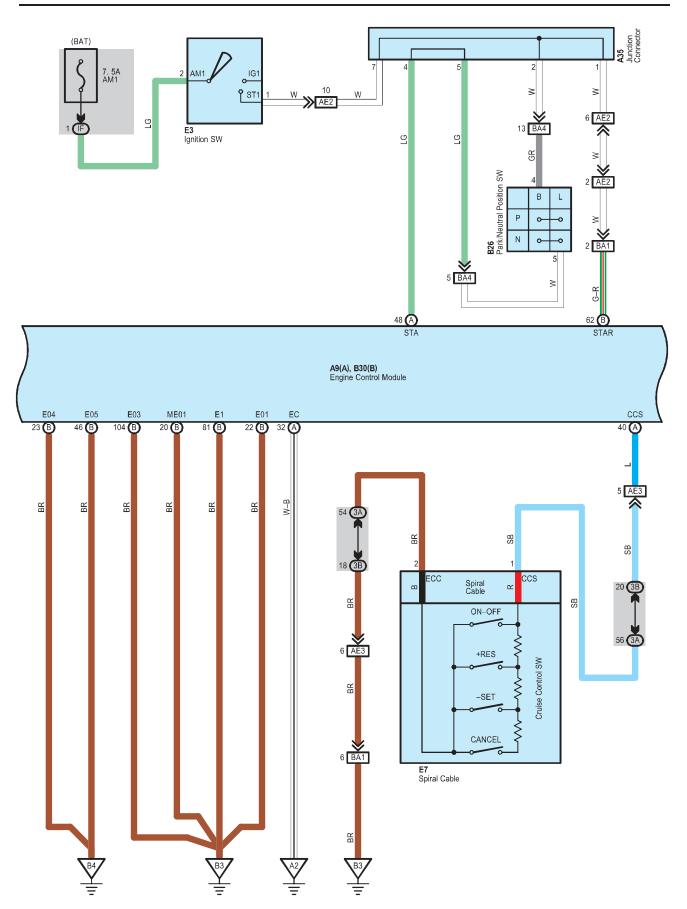
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)						
AE2								
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)						
AE6								
BA1	65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)						
BA2	00 (ZAZ-1 L)	Engine wife and Engine Room Main wife (inside of the Engine Room R/B No.) and Engine Room 3/B No. ()						

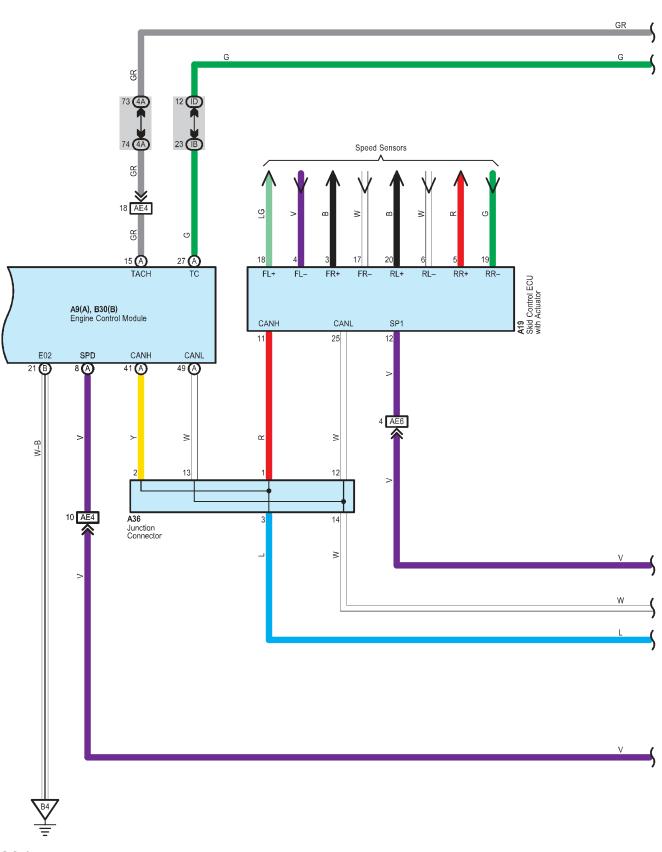
Code	See Page	Ground Points Location				
A1	65 (2AZ–FE)	Front Left Fender				
A2	05 (ZAZ-FE)	Fiorit Leit Ferider				
B1	65 (2AZ–FE)	Left Side of the Cylinder Head				
B2	05 (ZAZ-1 L)	Lett Side of the Cyllinder Flead				
E1	66	Left Kick Panel				

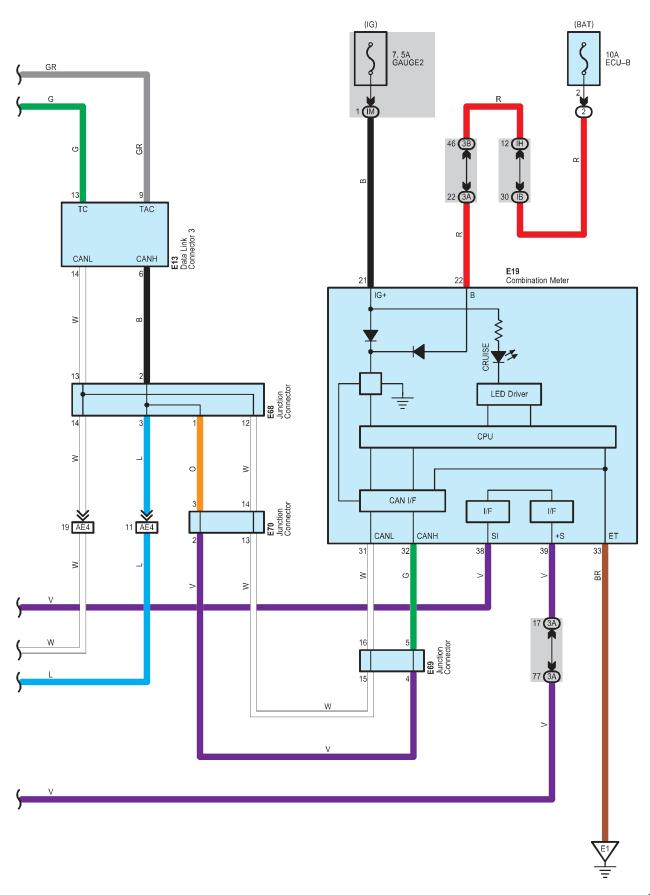












System Outline

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

Set Control

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

2. Coast Control

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

3. Tap Up Control

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

4. Tap Down Control

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

5. Accel Control

When +RES switch kept ON during driving with the cruise control, the engine control module controls the throttle valve to accelerate the vehicle.

It also registers the vehicle speed when +RES switch is turned OFF and controls the vehicle at the constant speed.

6. Manual Cancel Mechanism

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

- * The stop lamp SW is turned on.
- * The CANCEL SW is turned on.
- * The ON-OFF SW is turned off.
- * Gear is shifted from D position to other positions than D.

7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.

- * The stop light SW wiring is faulty or short-circuited.
- * The vehicle speed signal is faulty.
- * The electronically controlled throttle malfunctions.

8. Other Cancel Function

If any operate VSC system the cruise control is cancelled.

9. Overdrive Control Function

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

: Parts Location

(Code	See Page	Co	ode	See Page	Code	See Page
	А3	56	В	33	51 (2GR-FE)	E13	54
A9	А	50 (2GR-FE)	B4	Α	51 (2GR-FE)	E19	54
	A19	50 (2GR-FE)	B	26	51 (2GR-FE)	E68	55
	A35	56	B30	В	51 (2GR-FE)	E69	55
	A36	56	В	32	51 (2GR-FE)	E70	55
	A38	56	E	3	54		
	B1	51 (2GR-FE)	E	7	54		

: Relay Blocks

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

0

: Junction Block and Wire Harness Connector

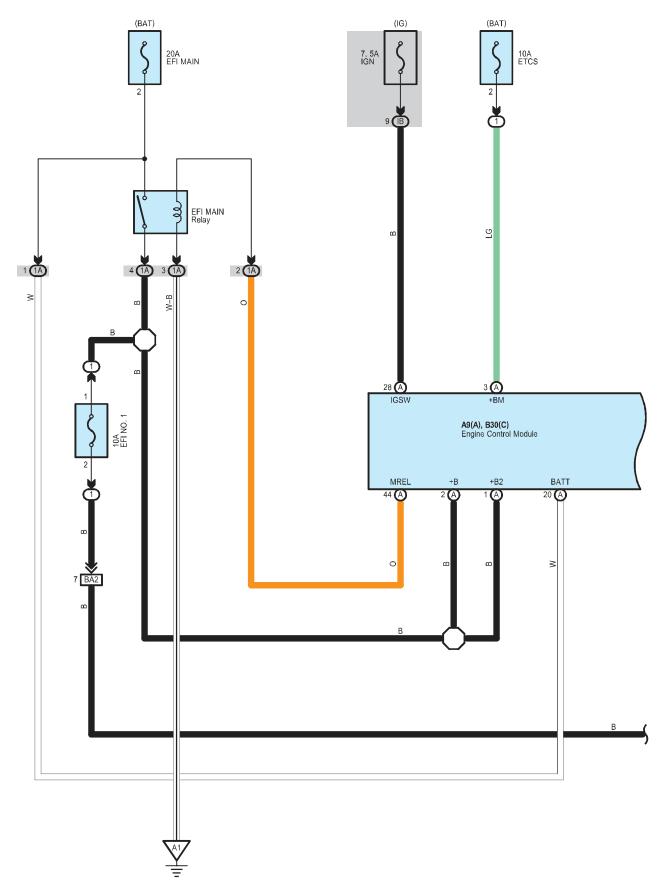
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30	instrument ranet wite and 3/D 140.3 (instrument ranet betitet)			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
ID					
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IH					
IM	31				

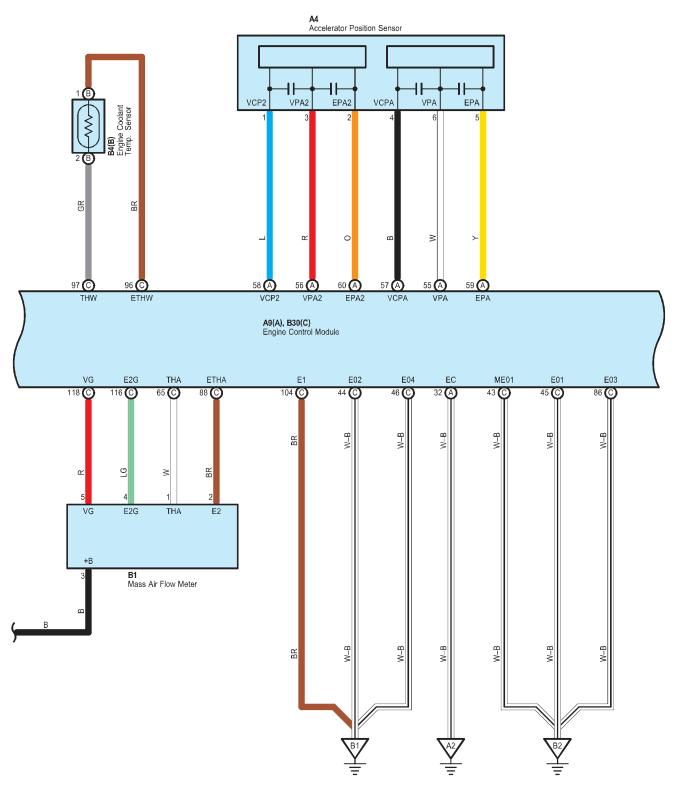
: Connector Joining Wire Harness and Wire Harness

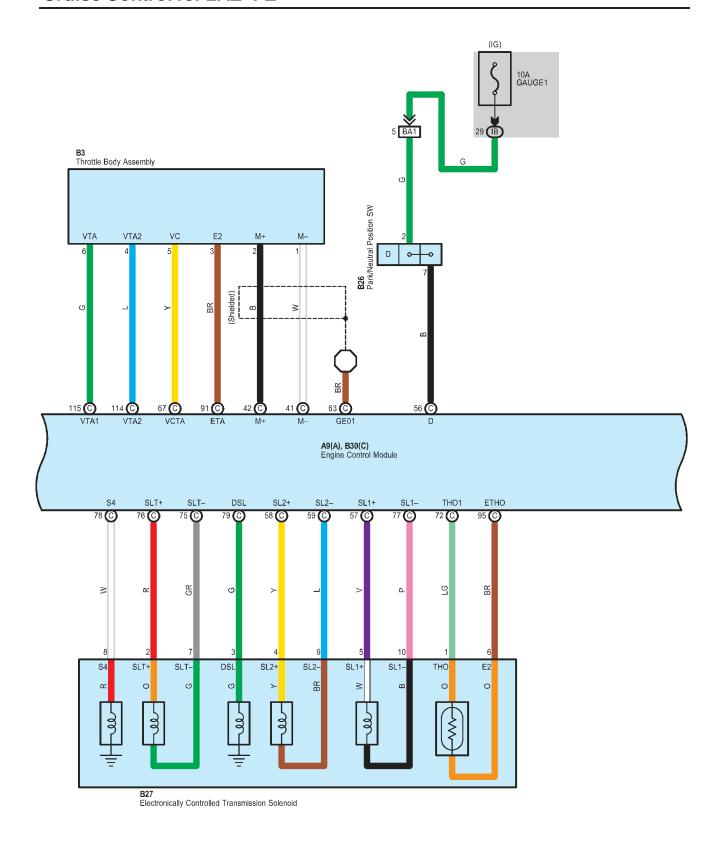
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE2					
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE4	00	Engine Room want ville and institution ratio ville (Left Side of the institution ratio)			
AE6					
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)			
BA4	04 (2GK-FE)	Engine whe and Engine Room Main whe (inside of the Engine Room R/B No.) and Engine Room 3/B No. ()			

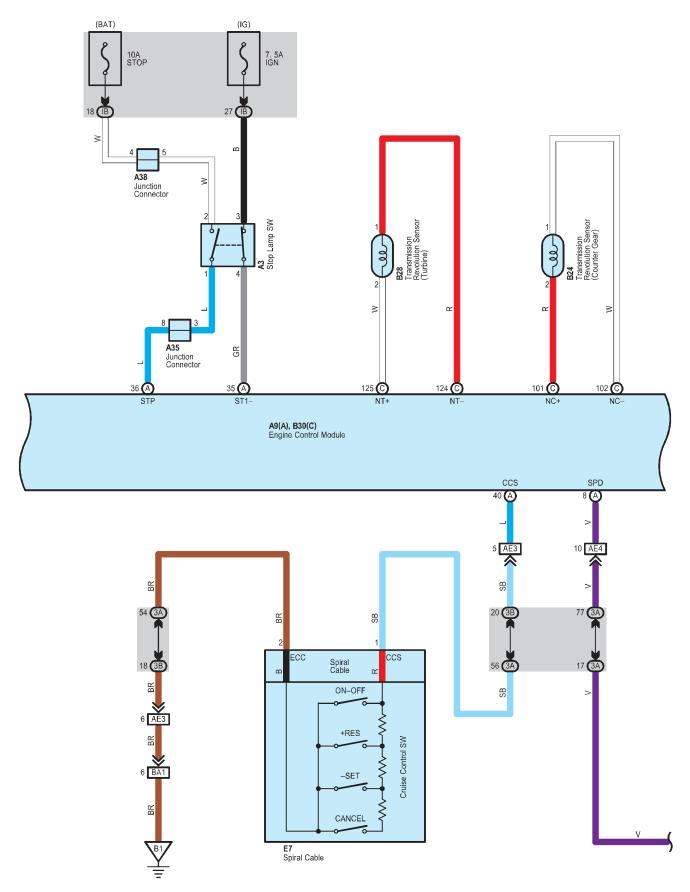
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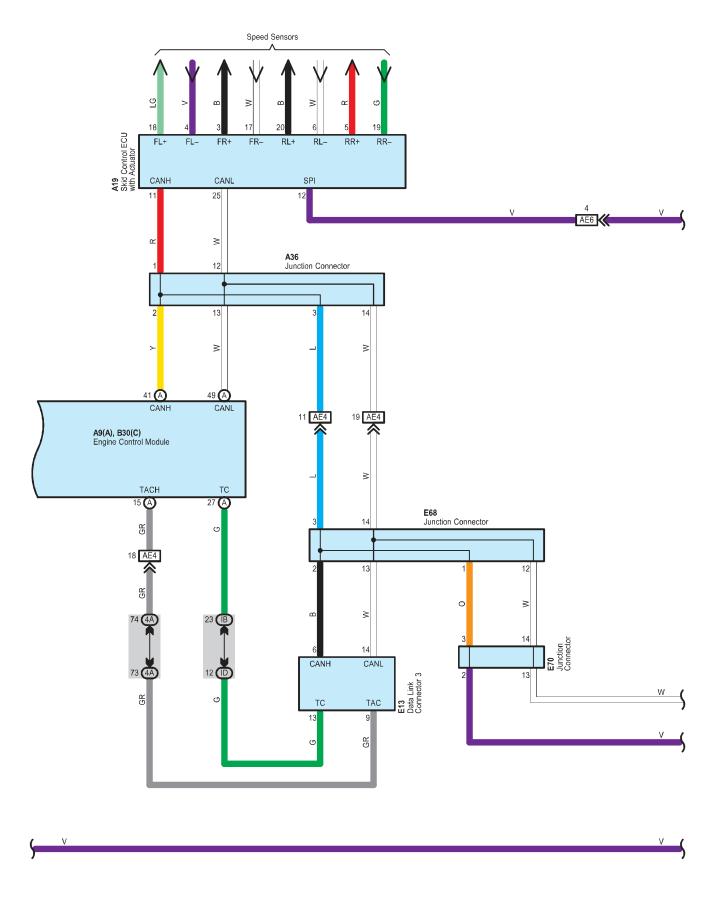
Code	See Page	Ground Points Location		
A1	64 (2GR-FE)	Front Left Fender		
A2	04 (2GIN-I L)	THORECALL GROOM		
В3	64 (2GR-FE)	Left Side of the Cylinder Head		
B4	04 (2GIN-I L)	Left Side of the Cyllinder Flead		
E1	66	Left Kick Panel		

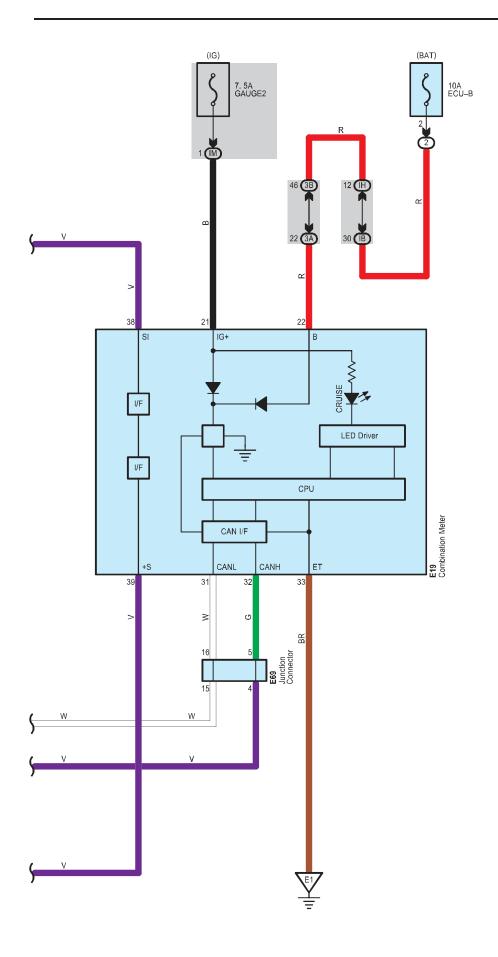












System Outline

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

Set Control

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

2. Coast Control

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

3. Tap Up Control

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

4. Tap Down Control

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

5. Accel Control

When +RES switch kept ON during driving with the cruise control, the engine control module controls the throttle valve to accelerate the vehicle.

It also registers the vehicle speed when +RES switch is turned OFF and controls the vehicle at the constant speed.

6. Manual Cancel Mechanism

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

- * The stop lamp SW is turned on.
- * The CANCEL SW is turned on.
- * The ON-OFF SW is turned off.
- * Gear is shifted from D position to other positions than D.

7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.

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- * The vehicle speed signal is faulty.
- * The electronically controlled throttle malfunctions.

8. Other Cancel Function

If any operate VSC system the cruise control is cancelled.

9. Overdrive Control Function

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

: Parts Location

C	Code		See Page	Code		See Page	Code		See Page
A	A3		56	B1		53 (2AZ-FE)	B30	С	53 (2AZ-FE)
F	A4		56	В3		53 (2AZ-FE)	E7		54
A9	A9 A 5		52 (2AZ-FE)	B4	В	53 (2AZ-FE)	E1	13	54
Α	A19		52 (2AZ-FE)	B24		53 (2AZ-FE)	E19		54
Α	A35		56	B26		53 (2AZ-FE)	E68		55
Α	A36		56	B27		53 (2AZ-FE)	E69		55
Α	A38		56	B28		53 (2AZ-FE)	E70		55

: Relay Blocks

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

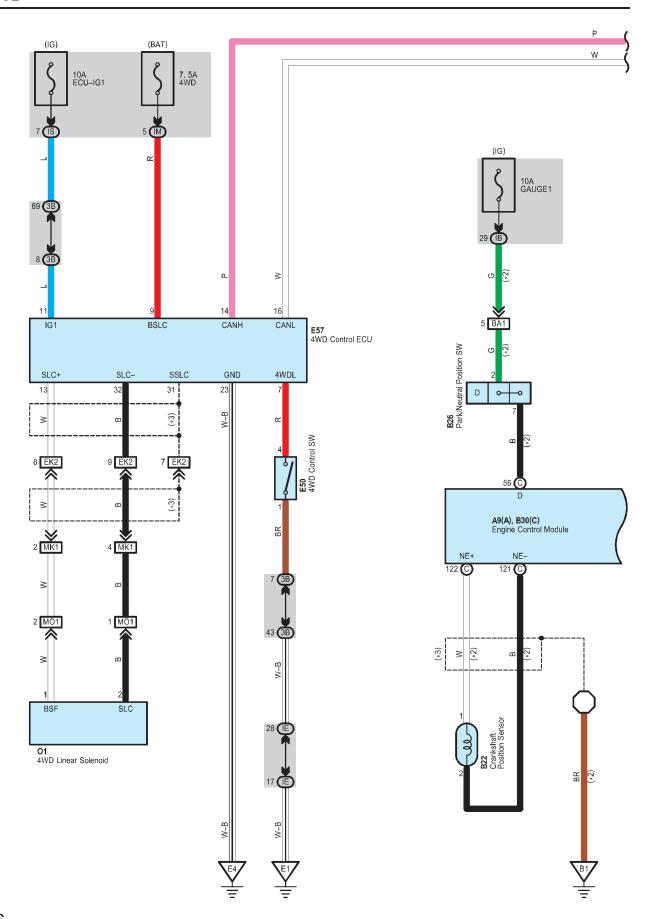
: Junction Block and Wire Harness Connector

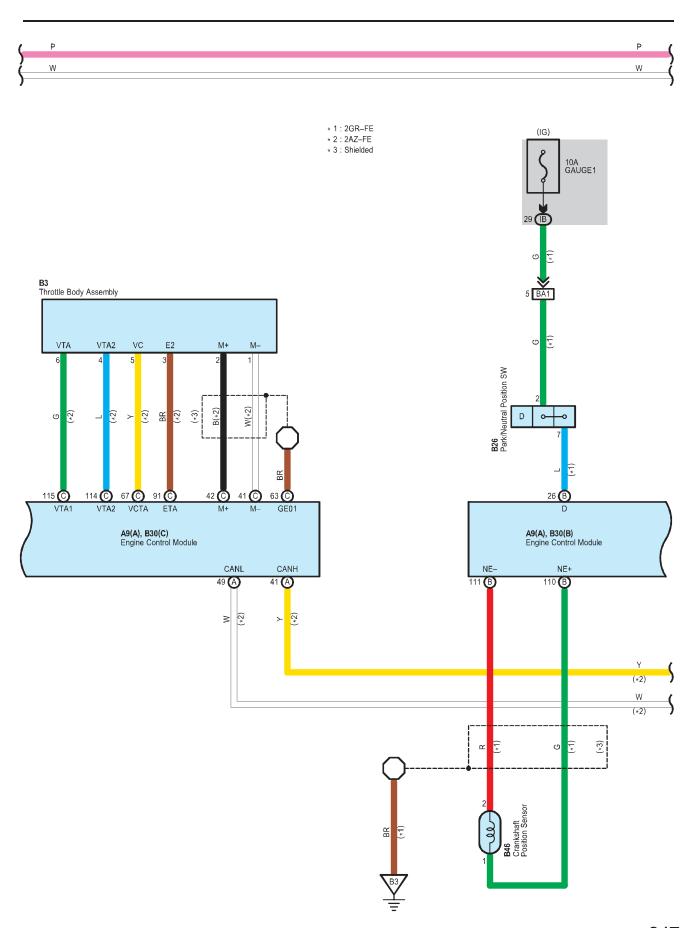
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	30	instrument raner wire and 3/5 No.5 (instrument raner center)			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
ID	30				
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IM	31				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE3					
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6					
BA1	65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)			
BA2	00 (ZAZ-FE)	Lingine wire and Engine Room Main wire (maide of the Engine Room R/B No. 1 and Engine Room 3/B No. 1)			

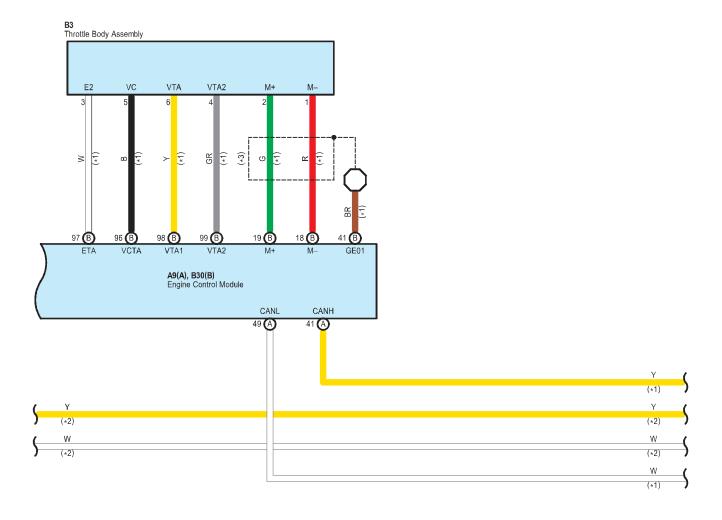
Code	See Page	Ground Points Location		
A1	65 (2AZ-FE)	Front Left Fender		
A2	05 (ZAZ-FE)	FIGUR Lett Ferruer		
B1	65 (2AZ-FE)	Left Side of the Cylinder Head		
B2	03 (ZAZ-FE)	Left Side of the Cylinder Head		
E1	66 Left Kick Panel			

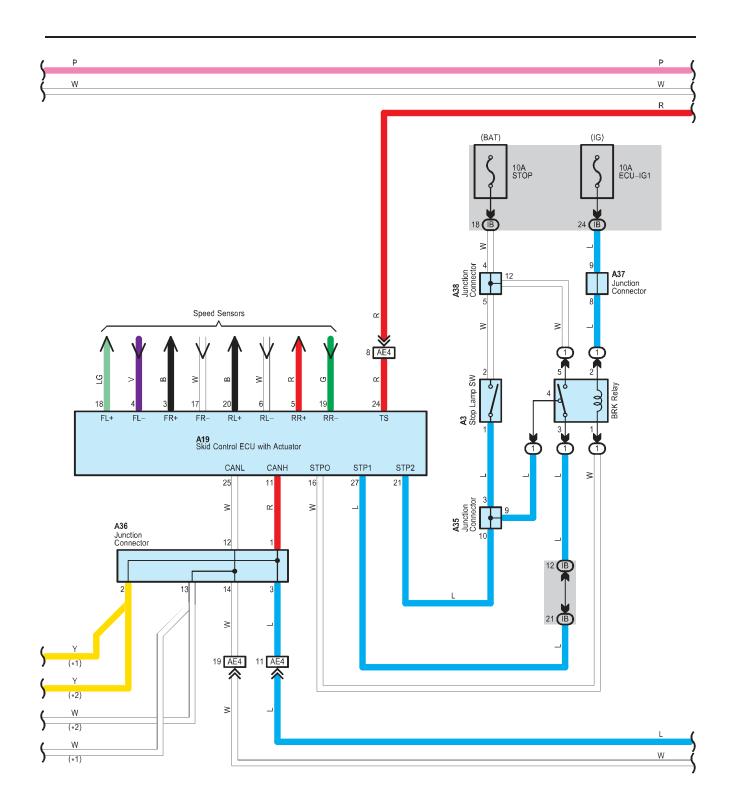


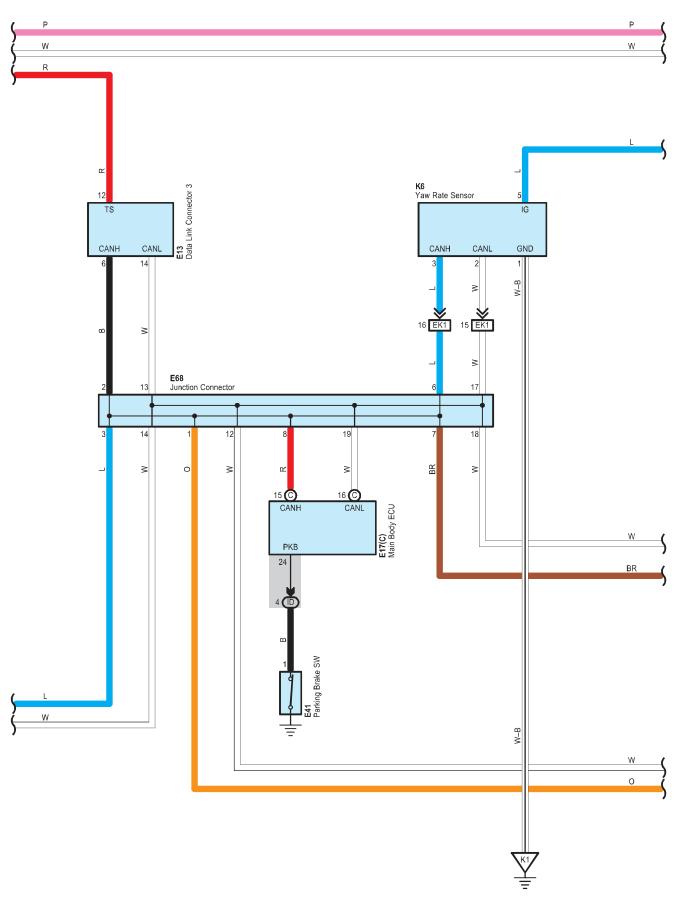


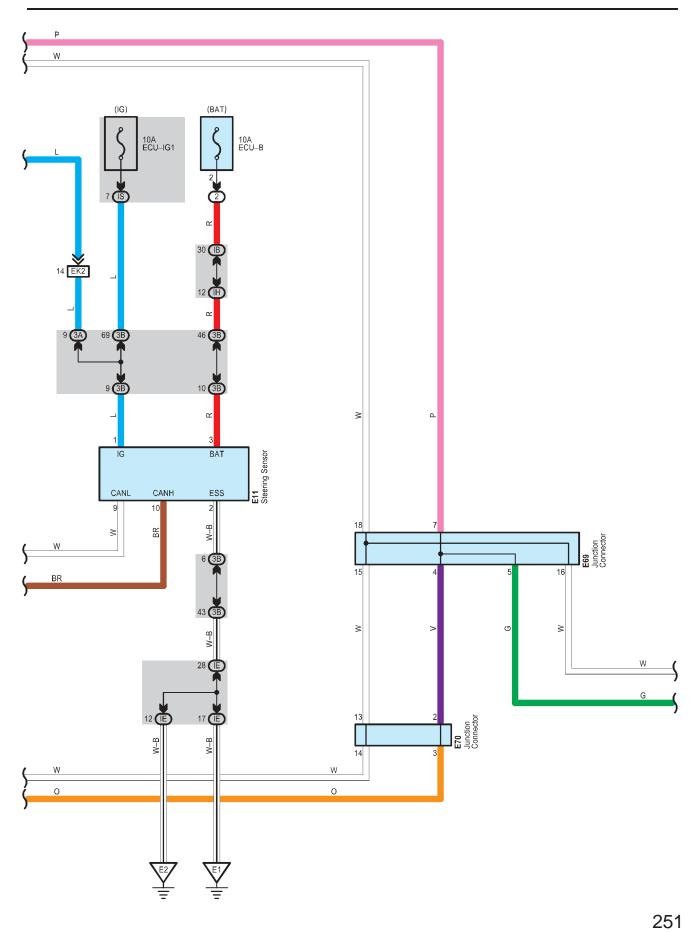


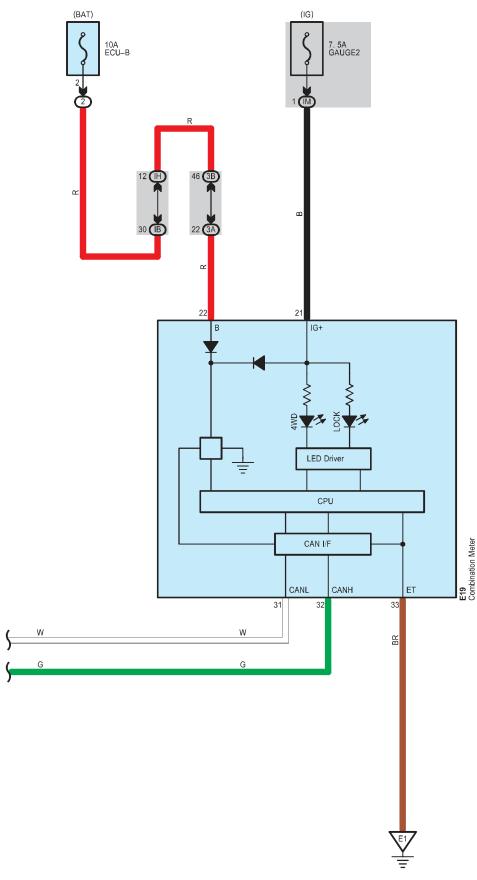
- * 1 : 2GR-FE * 2 : 2AZ-FE * 3 : Shielded











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

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

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page	
Α	.3	56	B3		53 (2AZ-FE)	E19	54	
A9	Α	50 (2GR-FE)	B22		53 (2AZ-FE)	E41	55	
1 73	^	52 (2AZ-FE)	B26		51 (2GR-FE)	E50	55	
	19	50 (2GR-FE)			53 (2AZ-FE)	E57	55	
^	13	52 (2AZ-FE)	B30	В	51 (2GR-FE)	E68	55	
A	35	56	D30	С	53 (2AZ-FE)	E69	55	
A	36	56	B46		51 (2GR-FE)	E70	55	
A37		56	E11		54	K6	59	
A:	38	56	E13		54	O1	61	
В3		51 (2GR-FE)	E17	С	54			

: Relay Blocks

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

: Junction Block and Wire Harness Connector

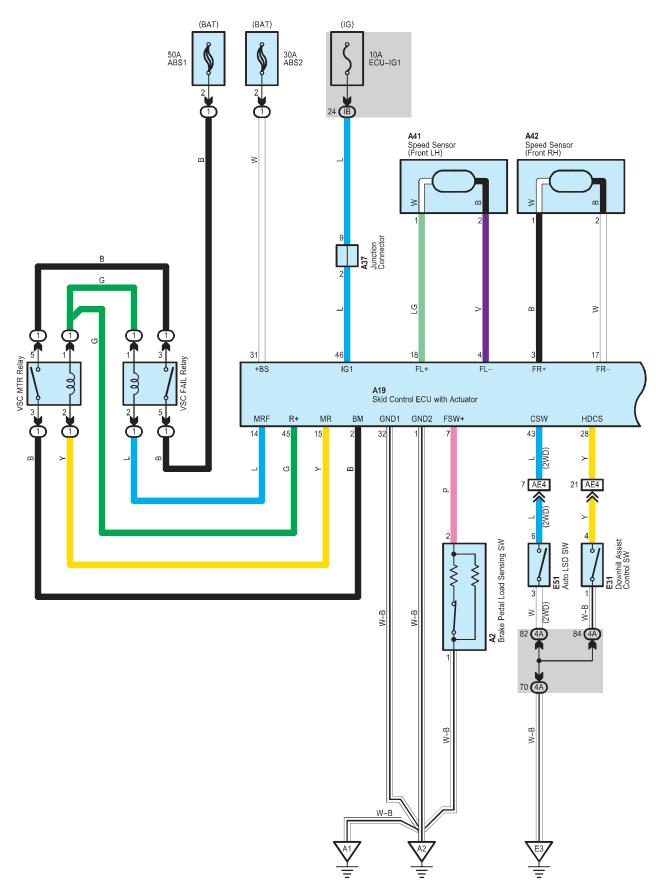
Code	See Page	Junction Block and Wire Harness (Connector Location)					
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)					
3B	36						
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)					
ID							
IE	30						
IH	- 31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)					
IM							
IS							

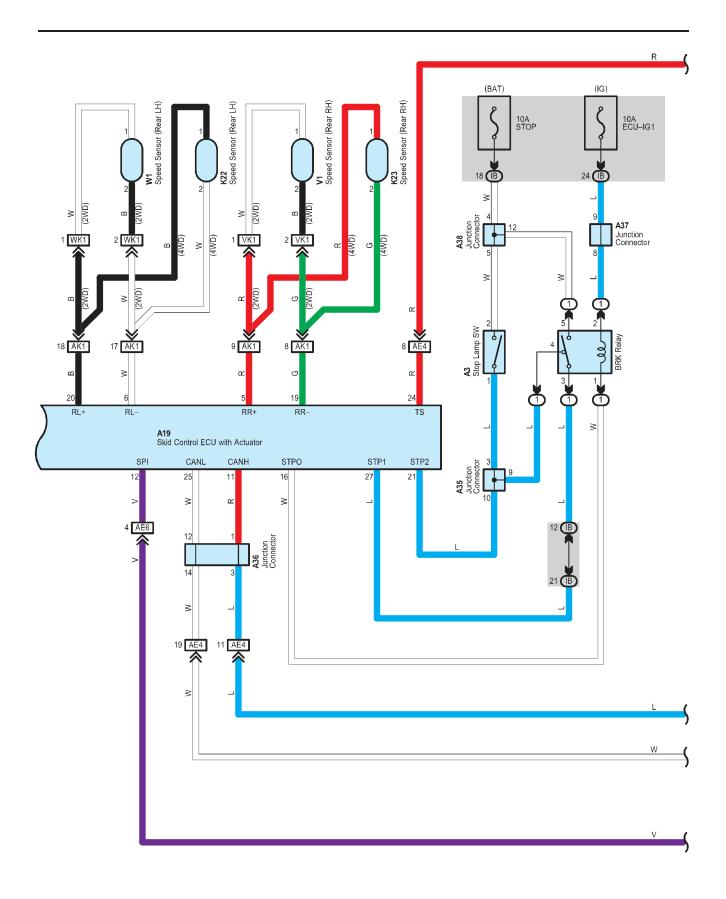
: Connector Joining Wire Harness and Wire Harness

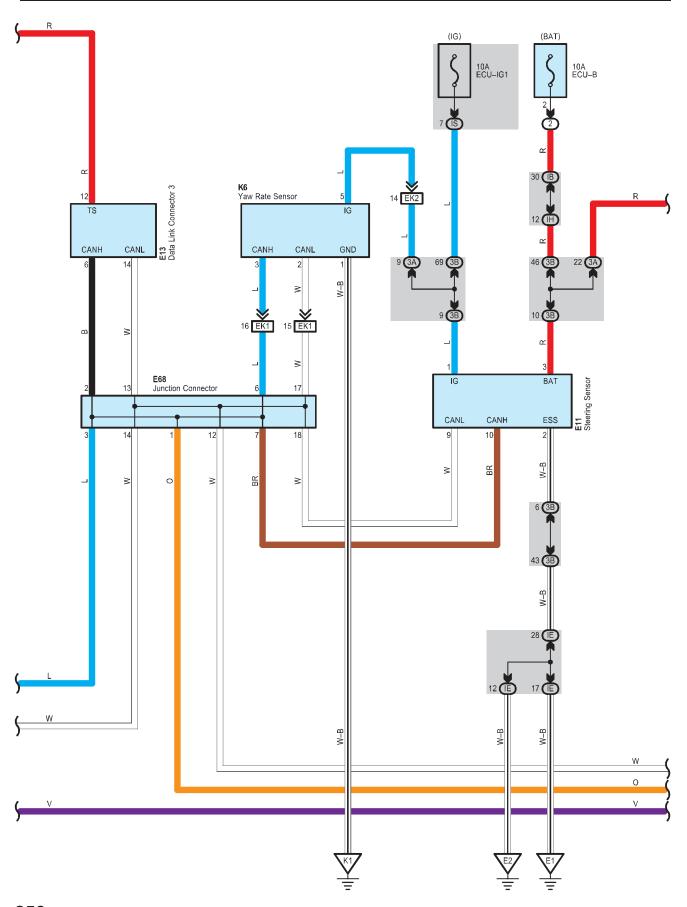
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)						
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)						
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)						
DAI	65 (2AZ-FE)	ignie whe and Engine Room Main whe (hiside of the Engine Room Ro No.) and Engine Room 3/5 No. 1)						
EK1	- 66	Instrument Panel Wire and Floor Wire (Left Kick Panel)						
EK2	00	Inistrument Paner whe and Ploor whe (Left Rick Paner)						
MK1	67	Floor No.4 Wire and Floor Wire (Left Quarter Panel)						
MO1	67	Floor No.4 Wire and Frame No.3 Wire (Near the Rear Differential)						

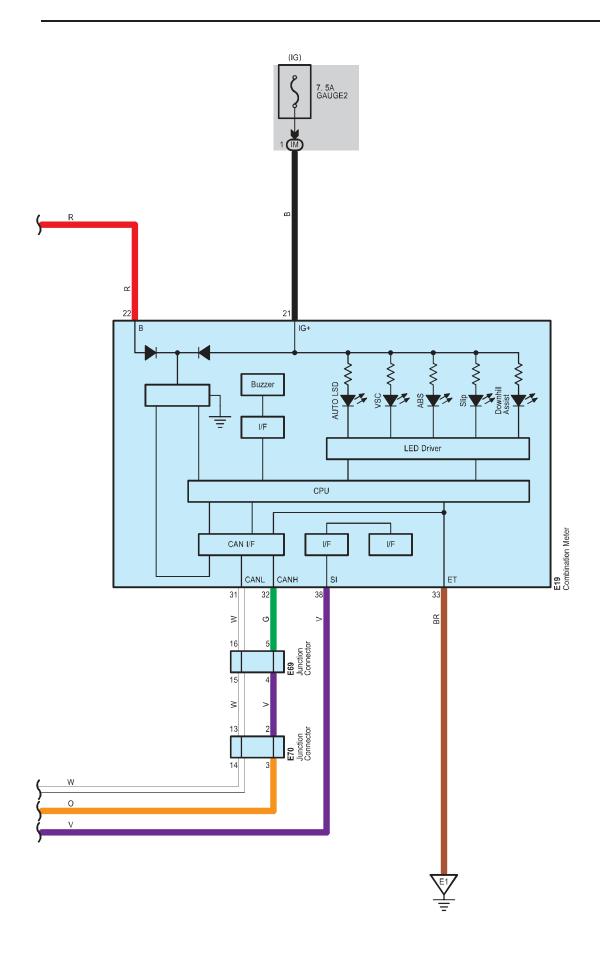
∇

Code	See Page	Ground Points Location				
B1	65 (2AZ-FE)	Left Side of the Cylinder Head				
В3	64 (2GR-FE)	Left Side of the Cylinder Flead				
E1	66	Left Kick Panel				
E2	66	Instrument Panel Reinforcement Left				
E4	66	Right Kick Panel				
K1	67	Left Center Pillar				









1. ABS Operation

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

2. Traction Control Operation

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

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under—or over—steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under—or over—steering.

To reduce large over-steering:

If the VSC system determines that the over–steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over–steering to produce the moment toward the outside of the vehicle and reduce the over–steering. To reduce large under–steering:

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

4. Fail Safe Function

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

5. Downhill Assist Control Operation

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

6. Hill-Start Assist Control Operation

When starting on a steep hill for ascending, the hill–start support control automatically puts the brake on momentarily – from the moment when the driver releases his foot from the brake pedal until he steps on the accelerator pedal – to help the driver start the vehicle safely and smoothly.

Please bear in mind, however, that it activates the brake system for only 3 seconds.

7. Auto LSD

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

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	56	A41	52 (2AZ-FE)	E69	55
А3	56	A42	50 (2GR-FE)	E70	55
A19	50 (2GR-FE)	7,42	52 (2AZ-FE)	K6	59
Als	52 (2AZ-FE)	E11	54	K22	59
A35	56	E13	54	K23	59
A36	A36 56		54	V1	61
A37	A37 56		54	W1	61
A38	A38 56		55		
A41	50 (2GR-FE)	E68	55		

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
I	1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)
	ı	23 (2AZ-FE)	Lingine Room R/B No. 1 (Lingine Compartment Left)
Ī	2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)
		27 (2AZ-FE)	Englie Rouli R/B No.2 (Englie Compartment Right)

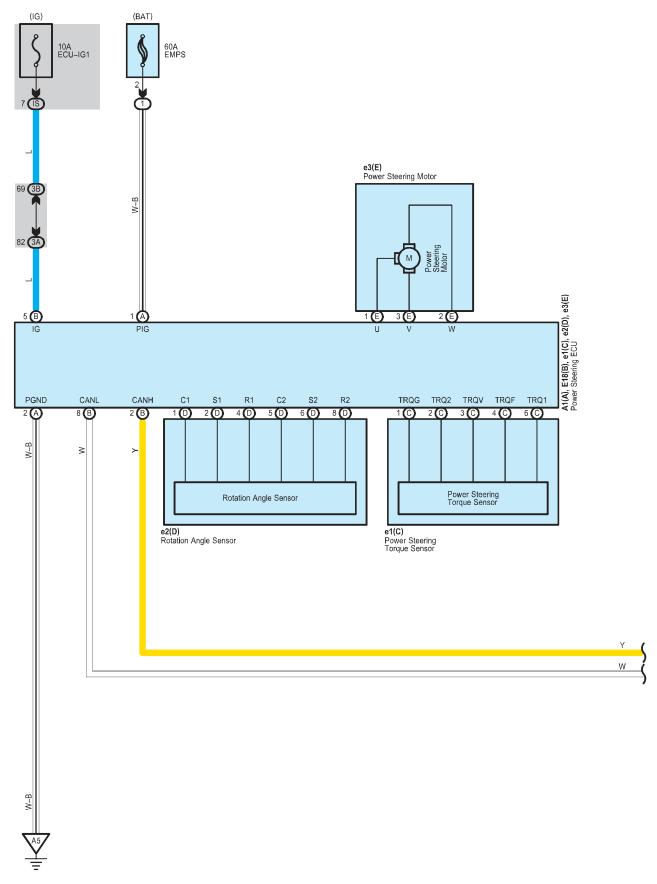
: Junction Block and Wire Harness Connector

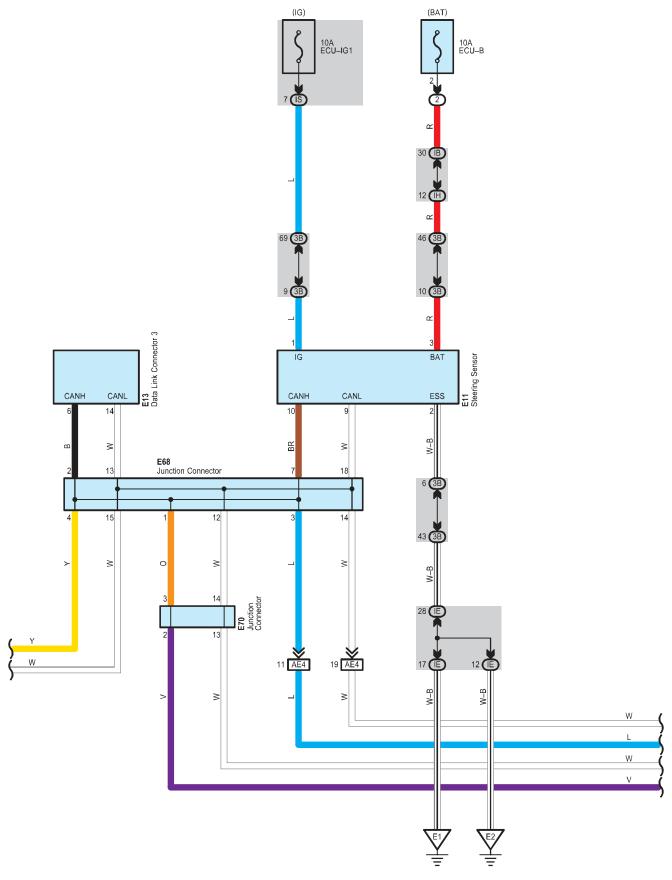
Code	See Page	Junction Block and Wire Harness (Connector Location)				
3A	38	Instrument Danel Wire and I/D No. 2 (Instrument Danel Center)				
3B	30	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)				
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)				
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)				
IE	30					
IH	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)				
IM		- Instrument Paner whe and instrument Paner 3/6 (Cowr Side Left)				
IS	31					

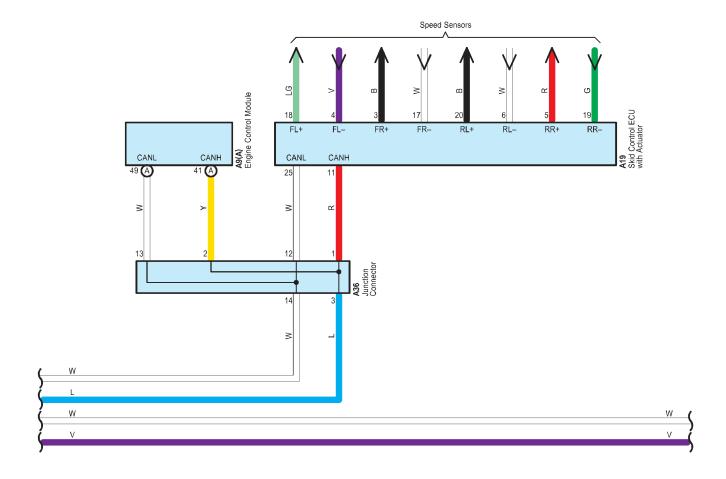
: Connector Joining Wire Harness and Wire Harness

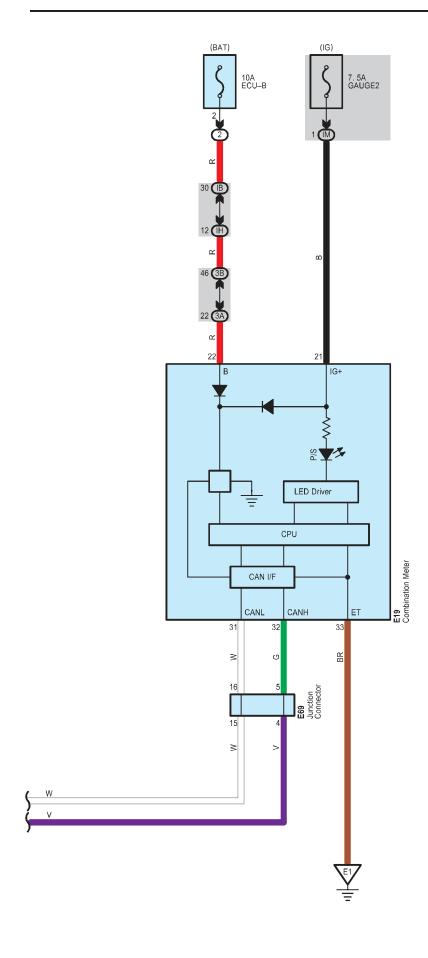
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
AE4	- 66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)					
AE6	00	Linging Noon Main wing and instrument range wing (Left Side of the instrument range)					
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)					
EK1	- 66	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
EK2	00						
VK1	67	Skid Control Sensor Wire Rear RH and Floor Wire (Quarter Wheel House Panel RH)					
WK1	67	Skid Control Sensor Wire Rear LH and Floor Wire (Quarter Wheel House Panel LH)					

Code	See Page	Ground Points Location					
A1	64 (2GR-FE)						
_ ^'	65 (2AZ-FE)	Front Left Fender					
A2	64 (2GR-FE)	FIGUR Leit Ferruer					
A2	65 (2AZ-FE)						
E1	66	Left Kick Panel					
E2	66	Instrument Panel Reinforcement Left					
E3	66	Instrument Panel Reinforcement Center					
K1 67 Left Center Pillar							









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

: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
A1	Α	A 56		11	54	E70		55
A9	Α	50 (2GR-FE)	E13		54	e1	С	57
73	_ ^	52 (2AZ-FE)	E18	В	54	e2	D	57
	19	50 (2GR-FE)	E19		54	e3	Е	57
^	13	52 (2AZ-FE)	E68		55			
A	36	56	E69		55			

: Relay Blocks

ſ	Code	See Page	Relay Blocks (Relay Block Location)							
ſ	1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)							
	'	23 (2AZ-FE)	Linging Room V.D. No. 1 (Engine Compartment Lent)							
ſ	2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)							
	2	27 (2AZ-FE)	Engine Room VB No.2 (Engine Compartment Right)							

: Junction Block and Wire Harness Connector

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

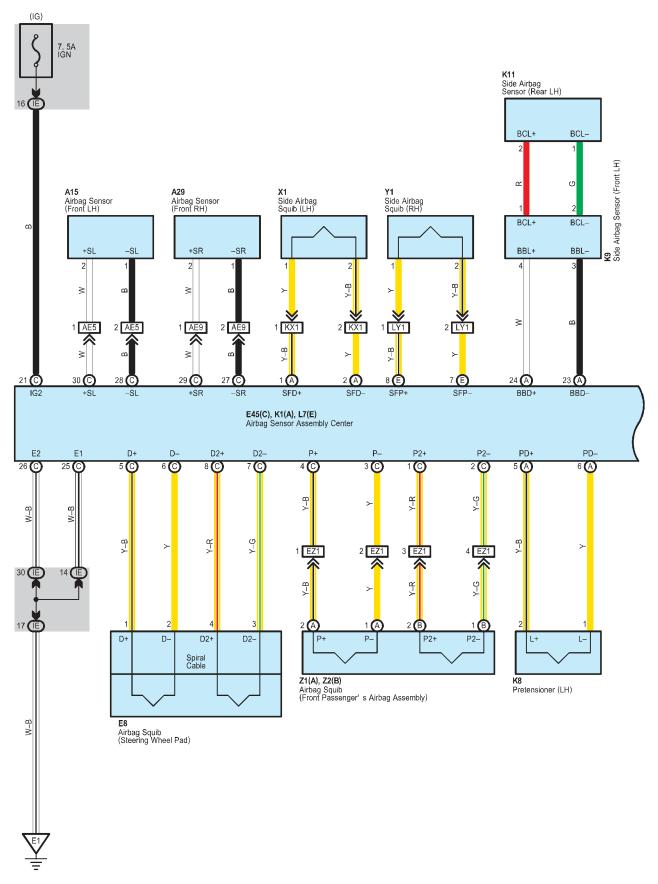
: Connector Joining Wire Harness and Wire Harness

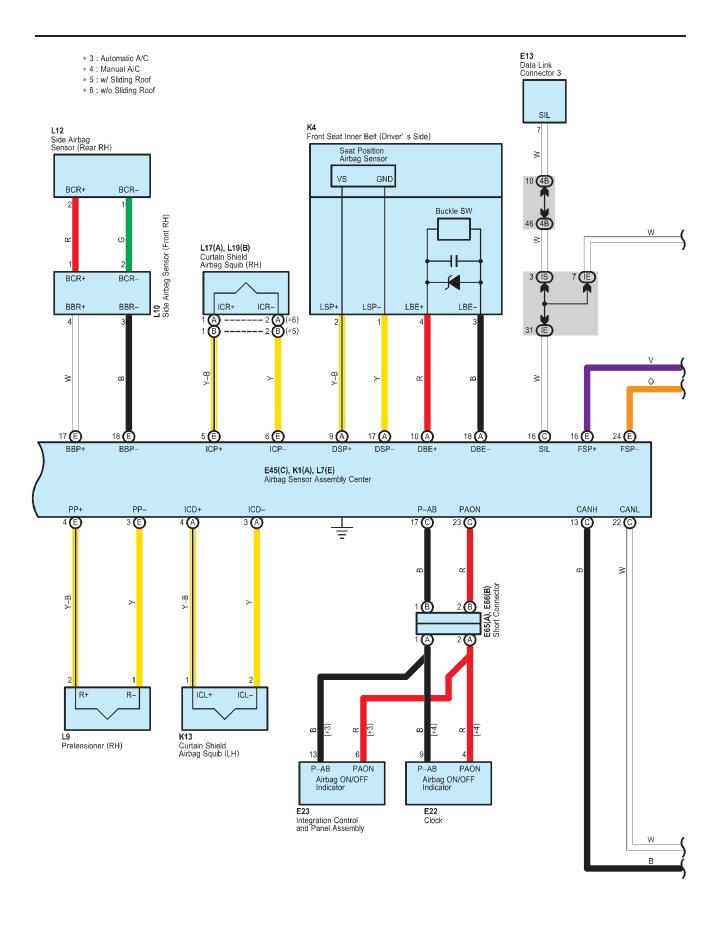
Code	See Page	Page Joining Wire Harness and Wire Harness (Connector Location)	
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	

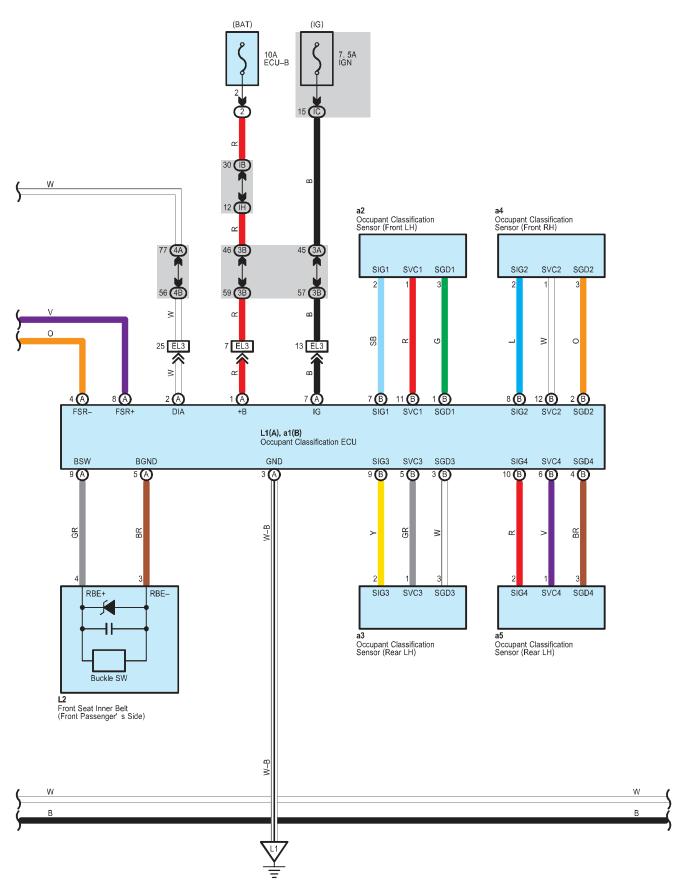
Code	See Page	Ground Points Location	
A5	66	ft Side of the Instrument Panel	
E1	66	t Kick Panel	
E2	66	Instrument Panel Reinforcement Left	

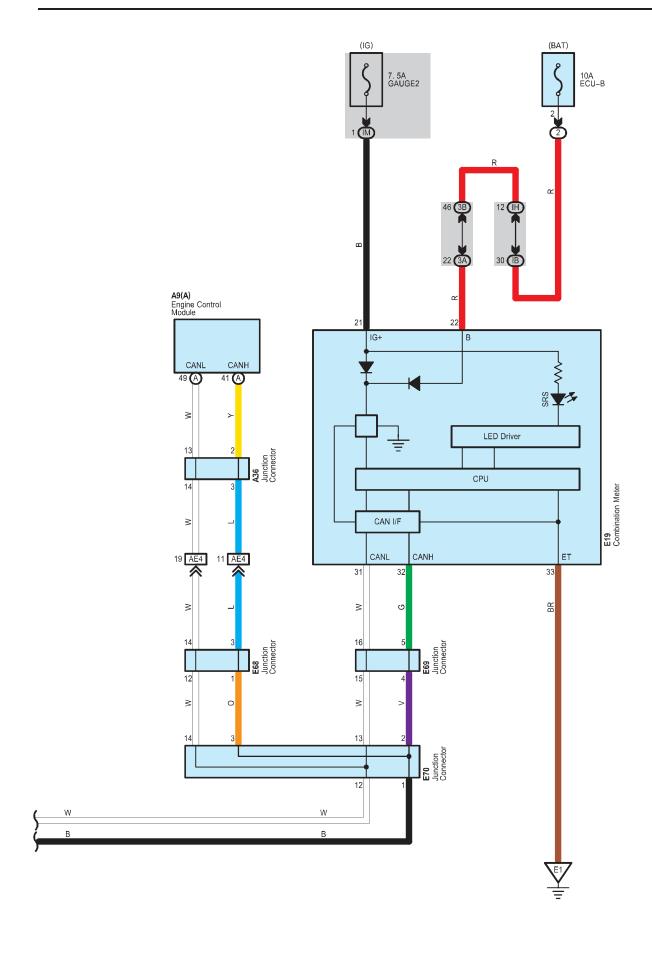
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

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









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

: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
A9	9 A	50 (2GR-FE)	E66 B 55		L10		60	
A3	_ ^	52 (2AZ-FE)	Εθ	68	55	L12		60
	15	50 (2GR-FE)	E69		55	L17	Α	60
^	13	52 (2AZ-FE)	E7	70	55	L19	В	60
Α.	29	50 (2GR-FE)	K1	Α	57	Х	1	62
_ ^	23	52 (2AZ-FE)	K4		62	Y1		62
A	36	56	K8		59	Z1	Α	57
E	8	54	K	9	59	Z2	В	57
Е	13	54	K.	11	59	a1	В	62
Е	19	54	K′	13	59	а	2	62
E	22	54	L1	Α	62	а	3	62
E23		54	L	2	62	а	4	62
E45	С	55	L7	Е	57	а	5	62
E65	А	55	L	9	60			

: Relay Blocks

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

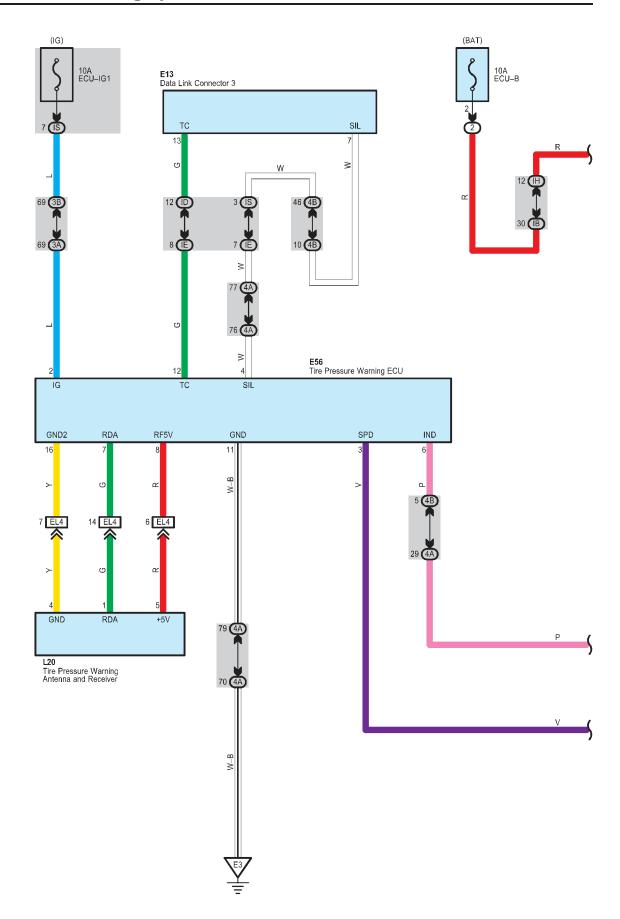
Junction Block and Wire Harness Connector

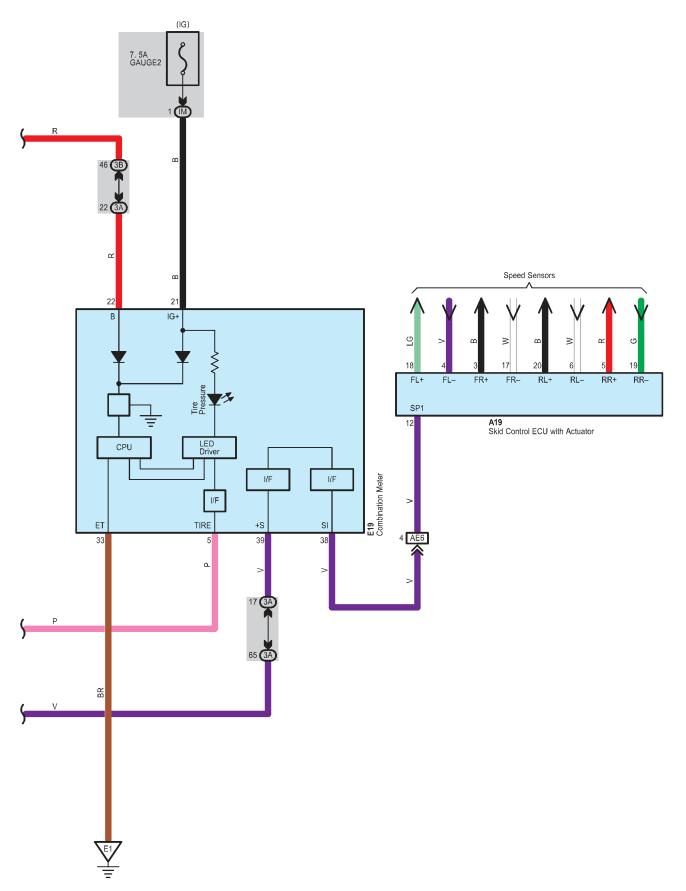
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	36	inistrainent Paner Wile and 3/D No.3 (inistrainent Paner Genter)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B	44	
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
IC		
ΙE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IH		
IM	31	
IS		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	ning Wire Harness and Wire Harness (Connector Location)			
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE5	00				
AE9	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)			
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)			
EZ1	66	Instrument Panel Wire and Instrument Panel Wire Assembly (Behind the Glove Box)			
KX1	68	Floor Wire and Seat Airbag Wire LH (Left Side of the Driver's Seat)			
LY1	68	Floor No.2 Wire and Seat Airbag Wire RH (Under the Front Passenger's Seat)			

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





Tire Pressure Warning System

System Outline

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

: Parts Location

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

: Relay Blocks

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

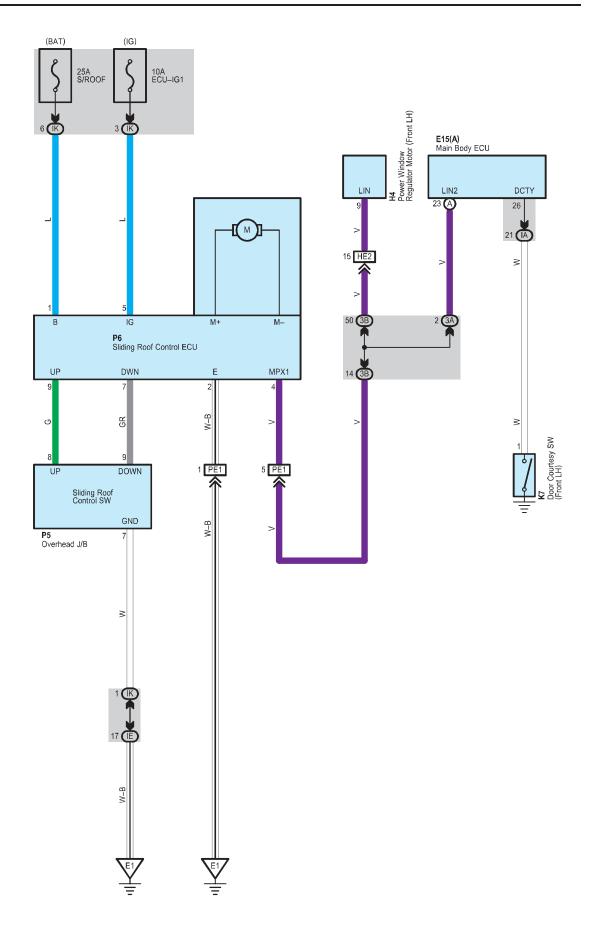
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

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



O : Parts Location

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

0

: Junction Block and Wire Harness Connector

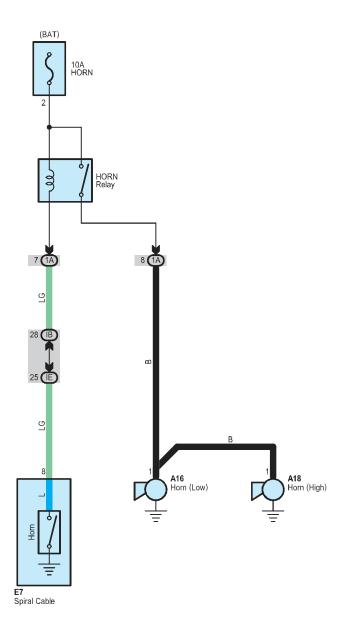
Code	See Page	Junction Block and Wire Harness (Connector Location)		
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
3B	36	institutient ranei wire and 3/D No.3 (institutient ranei Genter)		
IA	30	Floor Wire and Instrument Panel J/B (Cowl Side Left)		
IE 30 Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IK 30 Roof Wire and Instrument Panel J/B (Cowl Side Left)		Roof Wire and Instrument Panel J/B (Cowl Side Left)		

: Connector Joining Wire Harness and Wire Harness

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

: \

Ī	Code	See Page	Ground Points Location
I	E1	66	Left Kick Panel



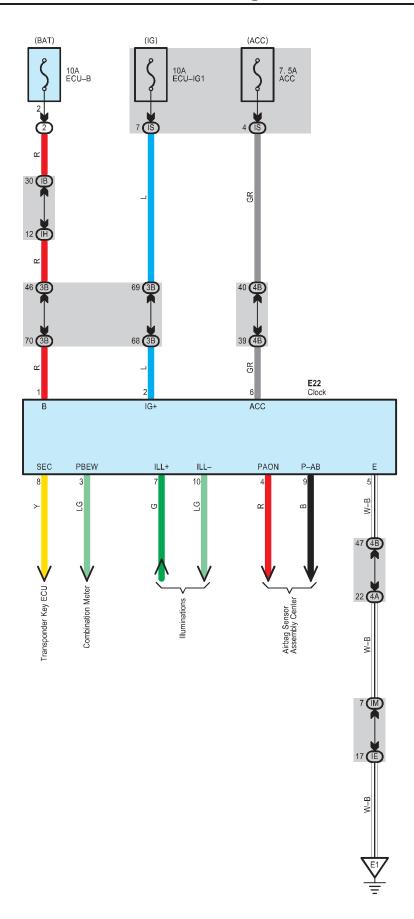
: Parts Location

Code	See Page	Code	See Page	Code	See Page
A16	50 (2GR-FE)	I A18 I	50 (2GR-FE)	E7	54
Alb	52 (2AZ-FE)		52 (2AZ-FE)		

0

: Junction Block and Wire Harness Connector

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



: Parts Location

Code	See Page	Code	See Page	Code	See Page
E22	54				

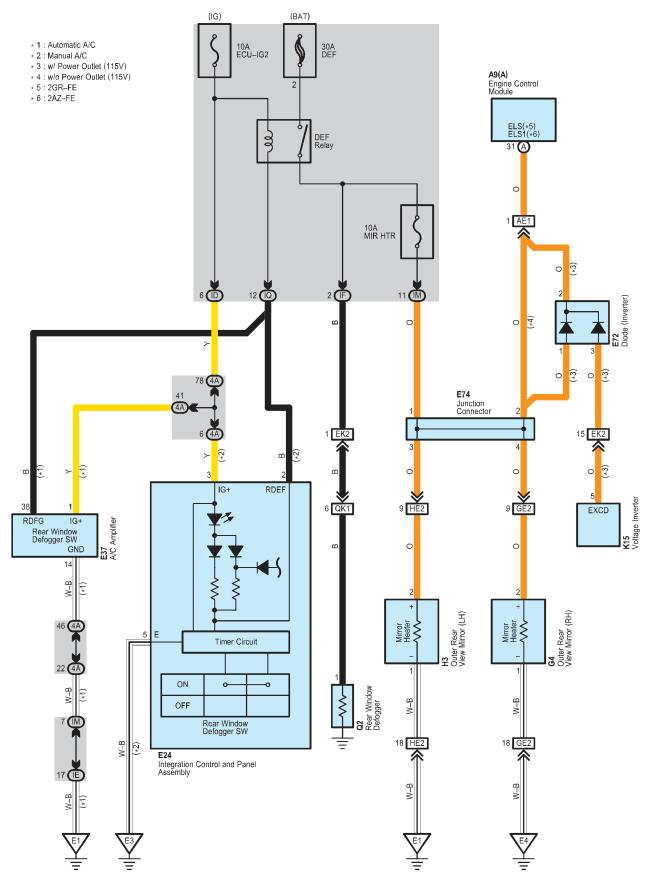
: Relay Blocks

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

: Junction Block and Wire Harness Connector

Code See Page Junction Block and Wire Harness (Connector Location)		Junction Block and Wire Harness (Connector Location)		
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)		
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)		
4B	44	instrument raner vviie and 3/D NO.4 (instrument raner Genter)		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)		
IE	30			
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)		
IM	31	- Instrument Panel Wile and Instrument Panel 3/6 (Cowl Side Lett)		
IS	01			

Code See Page Ground Points Location		See Page	Ground Points Location
I	E1	66	Left Kick Panel



O : Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A9	Α	50 (2GR-FE)	E72	55	K15	59
Α3		52 (2AZ-FE)	E74	55	Q2	61
E2	24	54	G4	58		
E	37	55	H3	58		

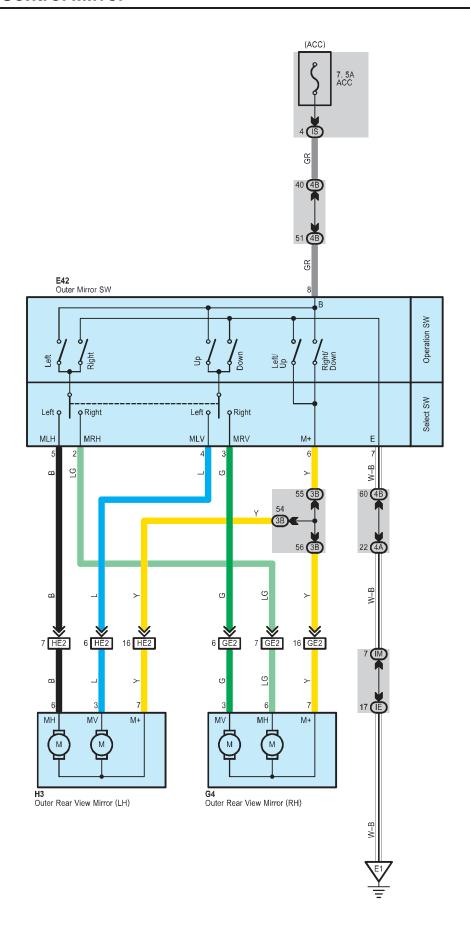
: Junction Block and Wire Harness Connector

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

: Connector Joining Wire Harness and Wire Harness

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

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



: Parts Location

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

0

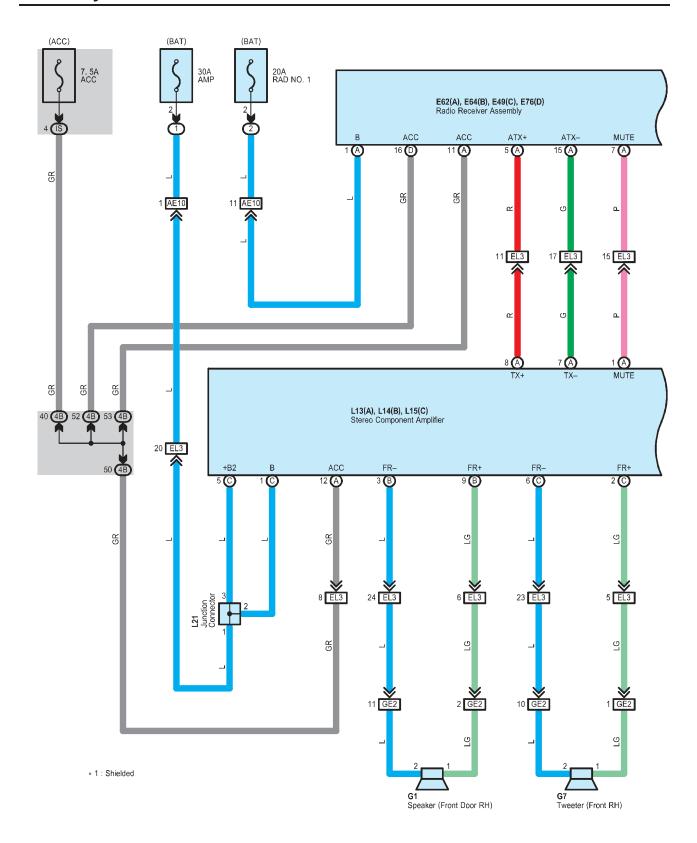
: Junction Block and Wire Harness Connector

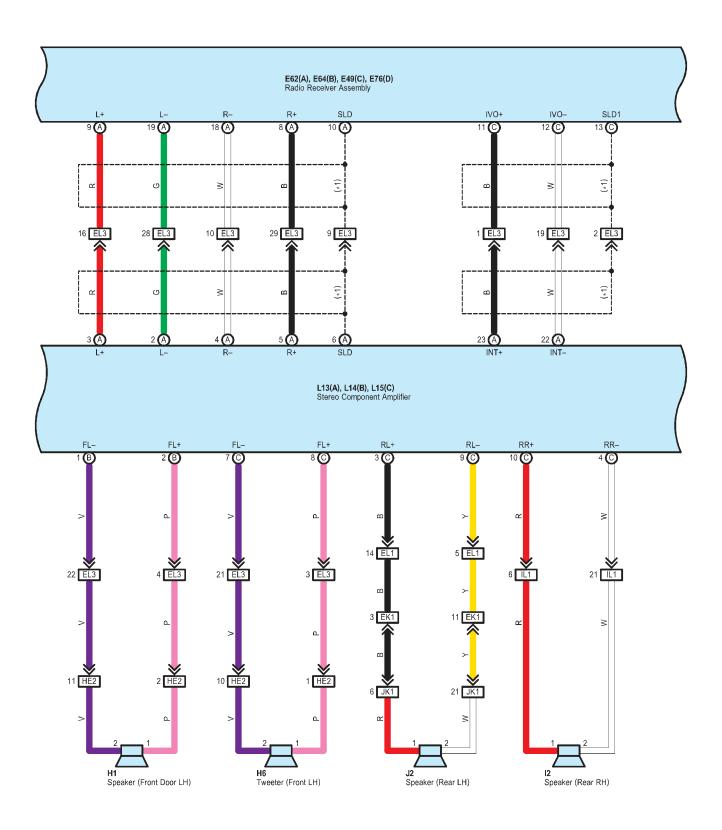
Code	See Page	Junction Block and Wire Harness (Connector Location)	
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
4B			
IE	30		
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IS			

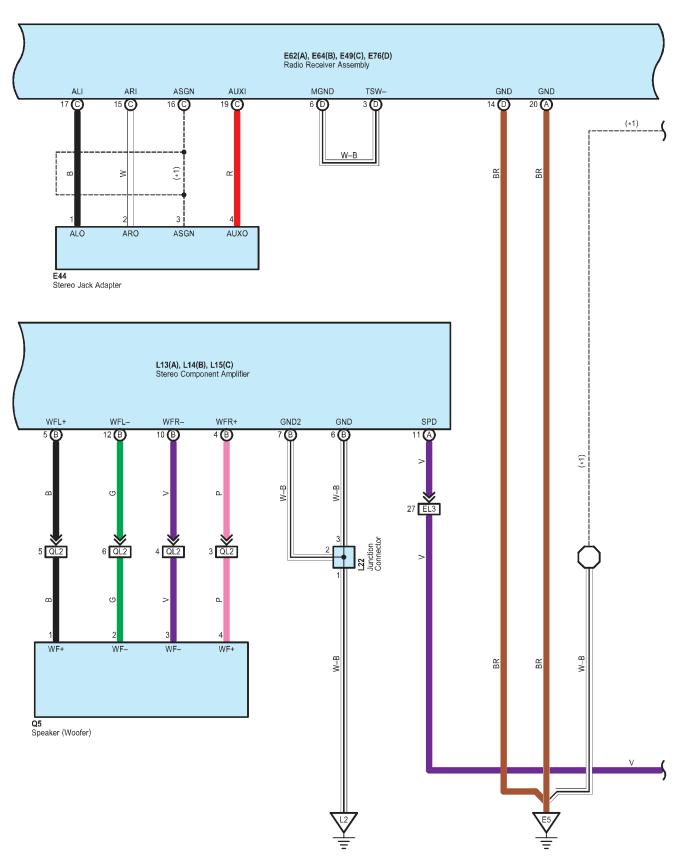
: Connector Joining Wire Harness and Wire Harness

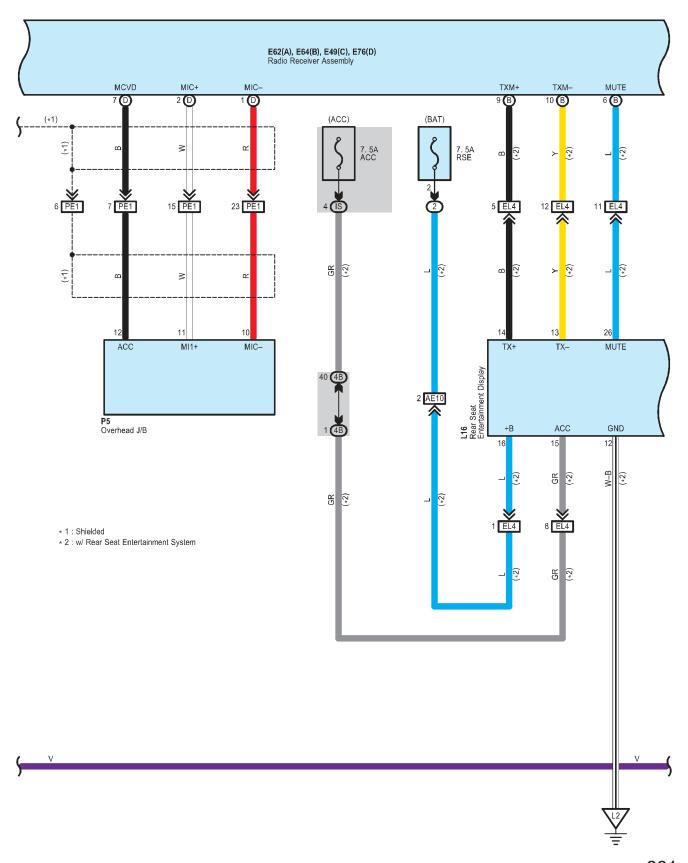
Code	Code See Page Joining Wire Harness and Wire Harness (Connector Location)	
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

Ī	Code	See Page	Ground Points Location
I	E1	66	Left Kick Panel

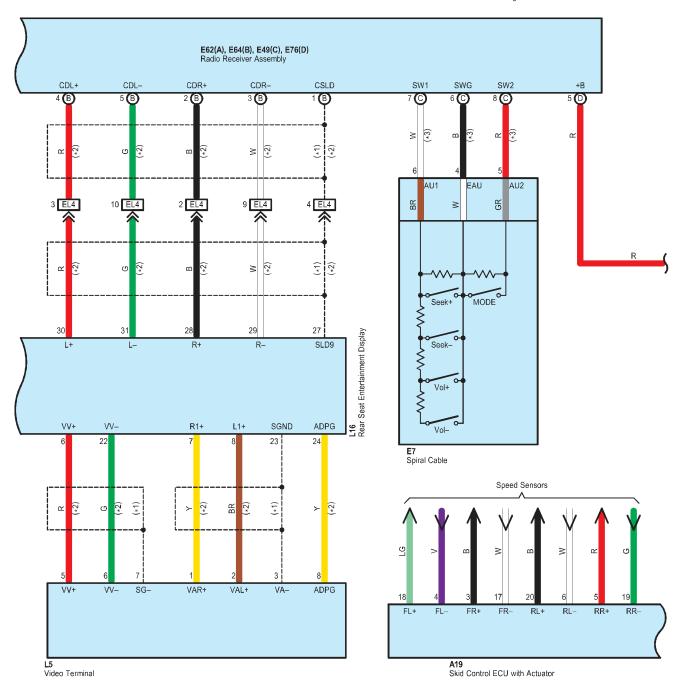




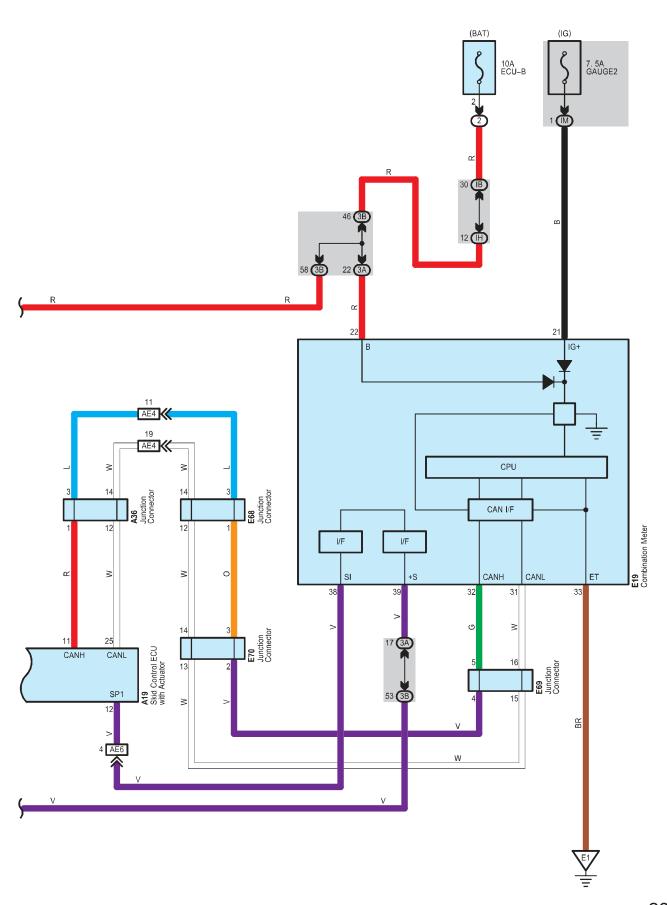




- * 1 : Shielded
- * 2 : w/ Rear Seat Entertainment System
- * 3 : w/ Audio SW in Steering Wheel



(v



Audio System for JBL

: Parts Location

Co	de	See Page	Code		See Page	Co	de	See Page
A.	10	50 (2GR-FE)	E69		55	L13	Α	60
_ ^	13	52 (2AZ-FE)	E70		55	L14	В	60
A	36	56	E76 [)	55	L15	С	60
E	7	54	G1		58	L16		60
E,	19	54	G7		58	L21		60
E4	44	55	H1		58	L2	22	60
E49	С	55	H6		58	P5		61
E62	E62 A 55		I2		58	Q5		61
E64 B		55	J2		58			
Εθ	68	55	L5		57			

: Relay Blocks

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

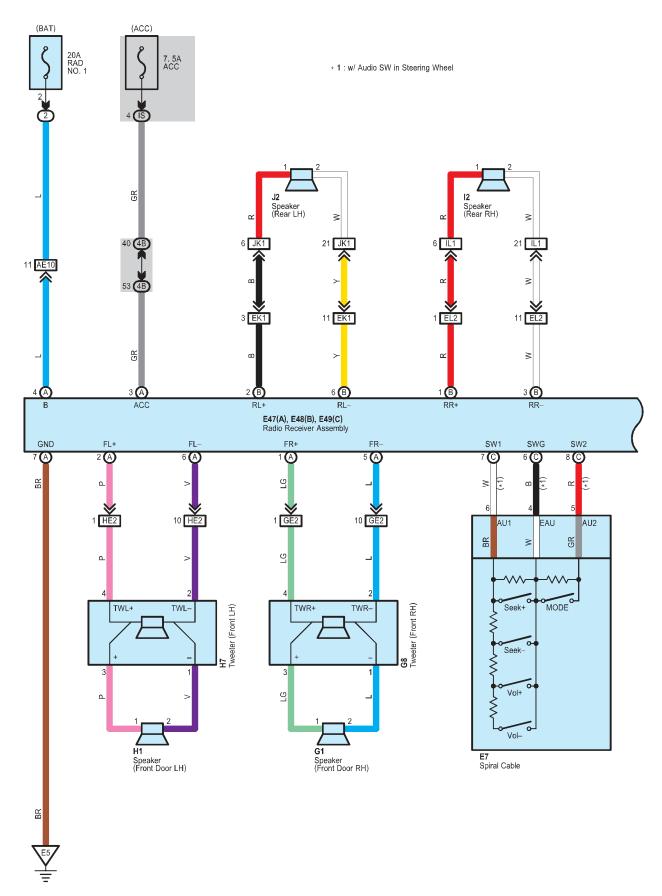
: Junction Block and Wire Harness Connector

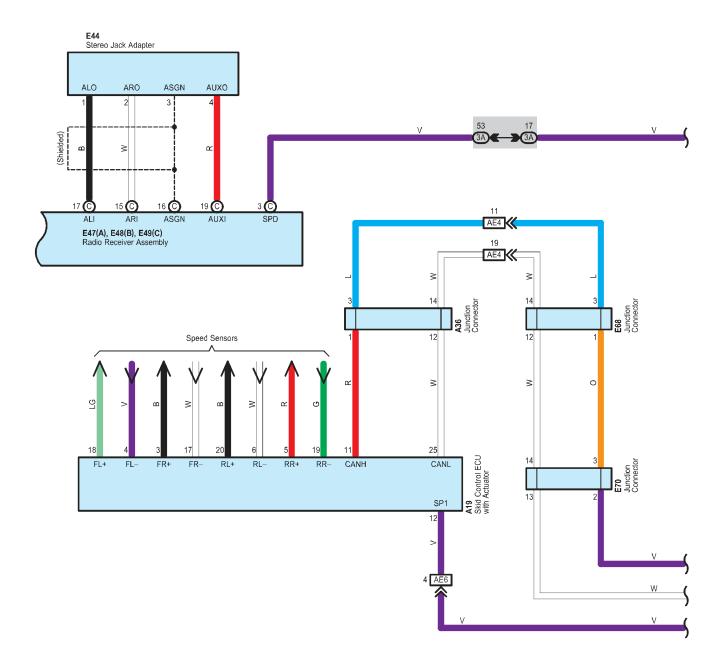
Code	See Page	Junction Block and Wire Harness (Connector Location)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	36	monument ranei vviie and 3/0 ivo.3 (monument ranei Celitei)			
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IH	30				
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IS	- 31				

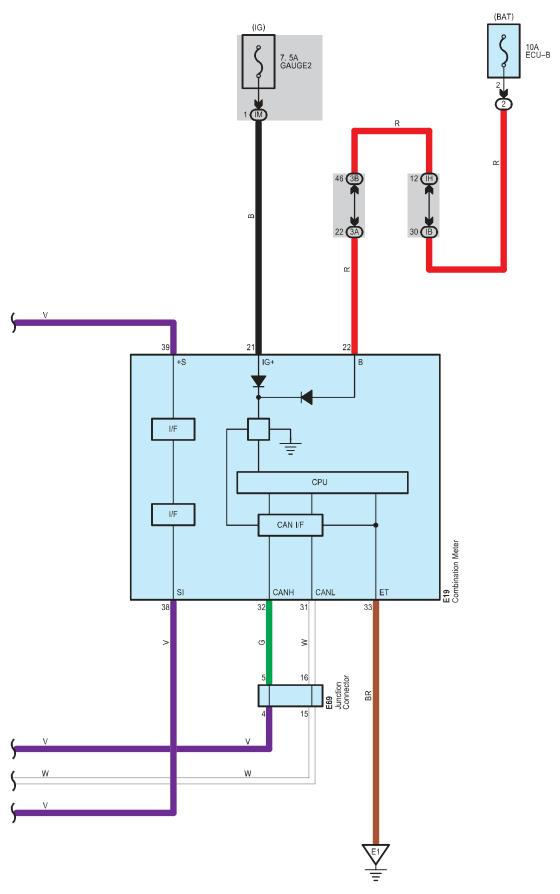
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
AE4	- 66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)					
AE6	- 00	Engine Room Main Wire and instrument Paner Wire (Left Side of the instrument Paner)					
AE10	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)					
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
EL1							
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)					
EL4	1						
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)					
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)					
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)					
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)					
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)					
QL2	67	Back Door No.3 Wire and Floor No.2 Wire (Right Rear Quarter Panel)					

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







: Parts Location

Code	See Page	Code		See Page	Code	See Page
A19	50 (2GR-FE)	E47	Α	55	G1	58
Als	52 (2AZ-FE)	E48	В	55	G8	58
A36	56	E49	С	55	H1	58
E7	54	Εθ	68	55	H7	58
E19	54	E69		55	12	58
E44	55	E70		55	J2	58

: Relay Blocks

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

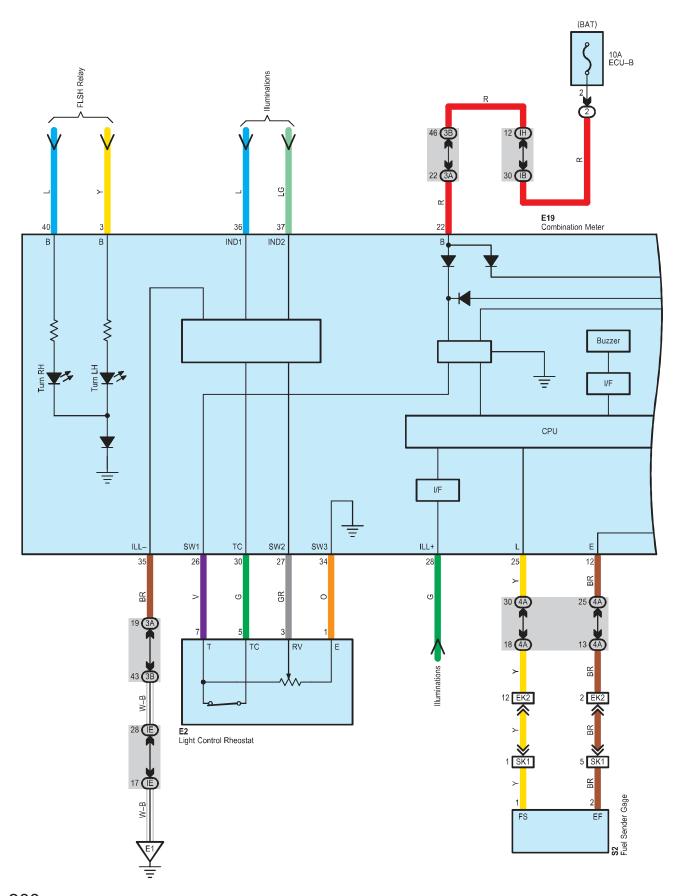
Junction Block and Wire Harness Connector

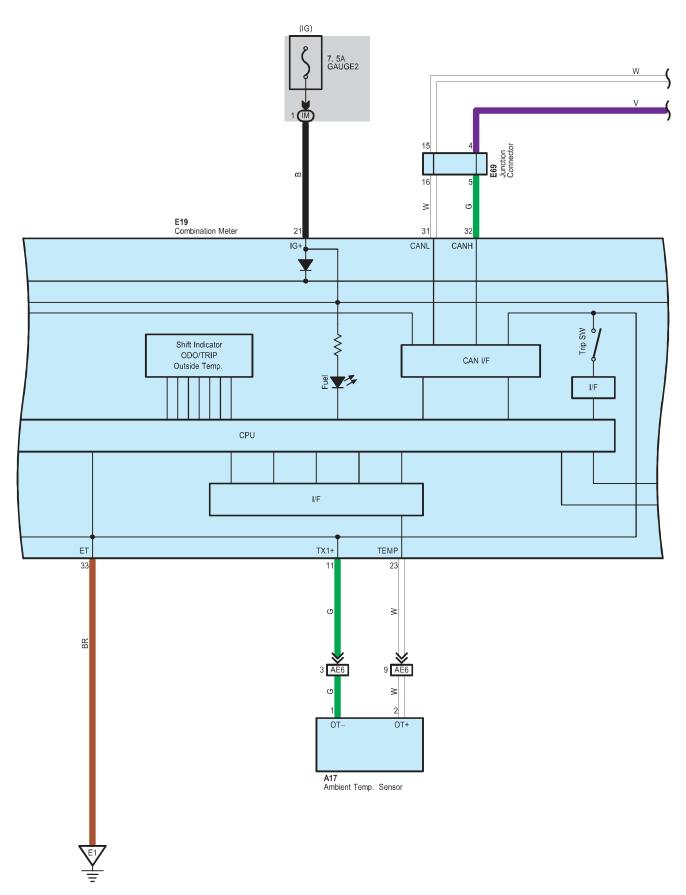
Code	See Page	Junction Block and Wire Harness (Connector Location)			
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
3B	36	instrument Fanet wife and 3/5 No.3 (instrument Fanet Center)			
4B	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
IH	30				
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)			
IS	31				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6	00	Lighte Noon wan whe and instrument rane whe (Lett Side of the instrument rane)			
AE10	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)			
EK1	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)			
EL2	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)			
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)			
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)			
IL1	67	Rear Door No.1 RH Wire and Floor No.2 Wire (Right Center Pillar)			
JK1	67	Rear Door No.1 LH Wire and Floor Wire (Left Center Pillar)			

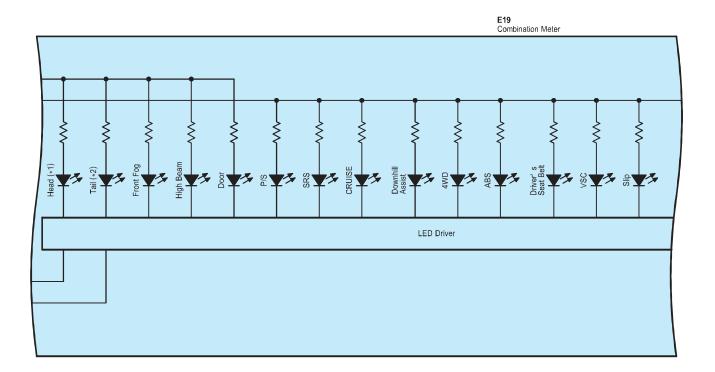
Code	See Page	Ground Points Location
E1	66	Left Kick Panel
E5	66	Instrument Panel Reinforcement Center



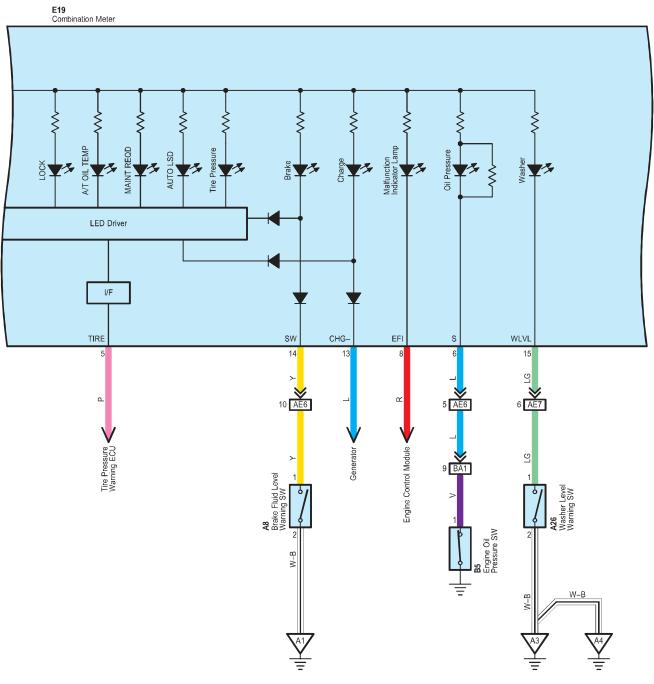


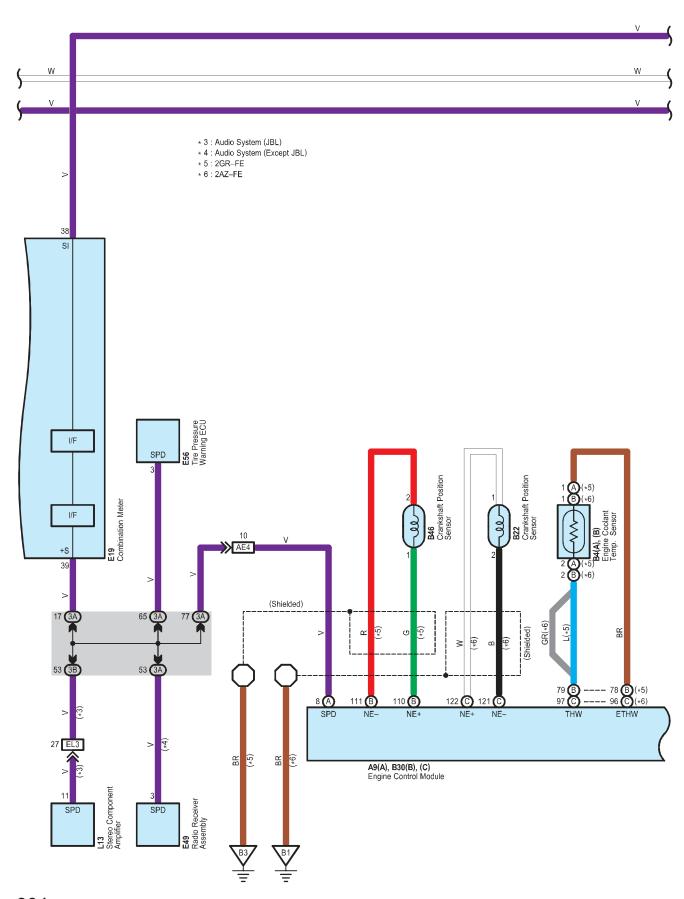
Combination Meter

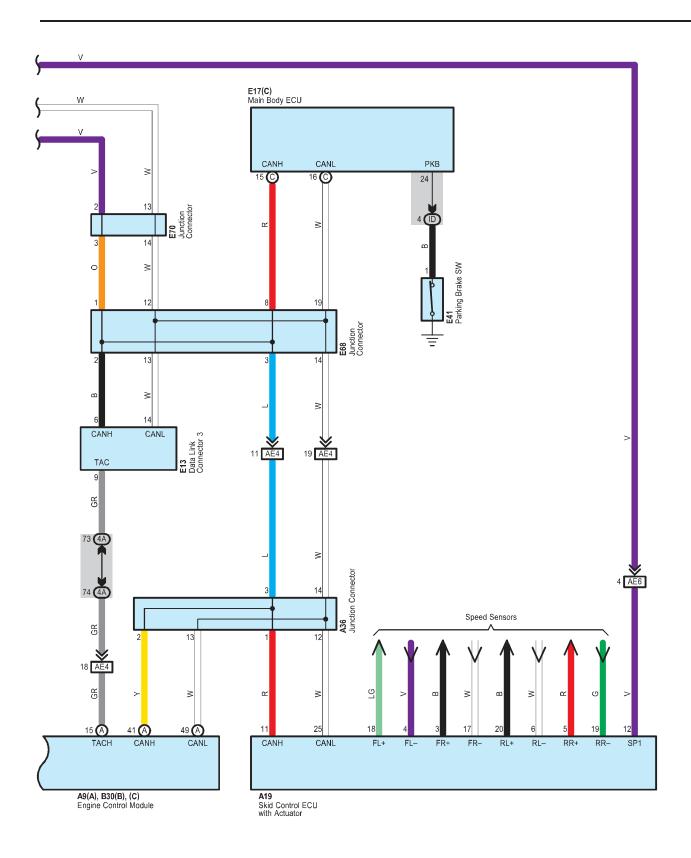
- * 1 : USA * 2 : Except USA
- \(\times \) \(\t











Combination Meter

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
	۸8	50 (2GR-FE)	B4	Α	51 (2GR-FE)	E19	54
	10	52 (2AZ-FE)	D-7	В	53 (2AZ-FE)	E41	55
A9	Α	50 (2GR-FE)	В	5	51 (2GR-FE)	E49	55
AJ		52 (2AZ-FE)		J	53 (2AZ-FE)	E56	55
^	.17	50 (2GR-FE)	B22		53 (2AZ-FE)	E68	55
^	. 17	52 (2AZ-FE)	B30	В	51 (2GR-FE)	E69	55
	19	50 (2GR-FE)	D30	С	53 (2AZ-FE)	E70	55
^	.13	52 (2AZ-FE)	B46		51 (2GR-FE)	L13	60
^	26	50 (2GR-FE)	E2		54	S2	61
_ ^	20	52 (2AZ-FE)	E13		54	·	
Α	36	56	E17	С	54		

: Relay Blocks

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

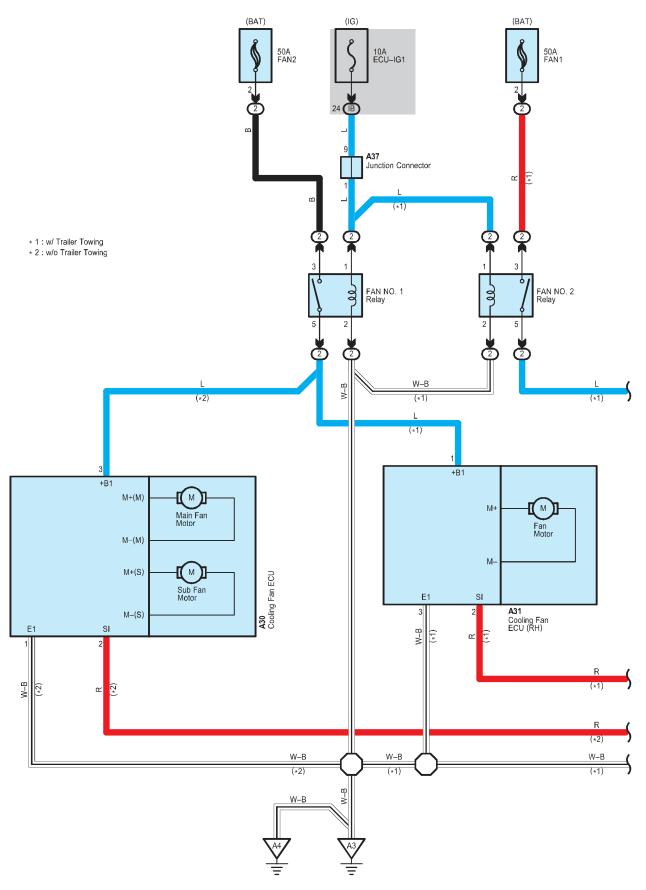
: Junction Block and Wire Harness Connector

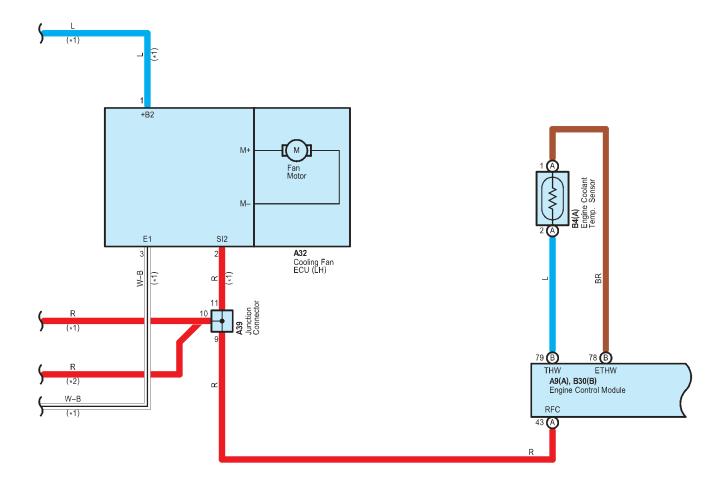
Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	30	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)
ID		Instrument Panel Wire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

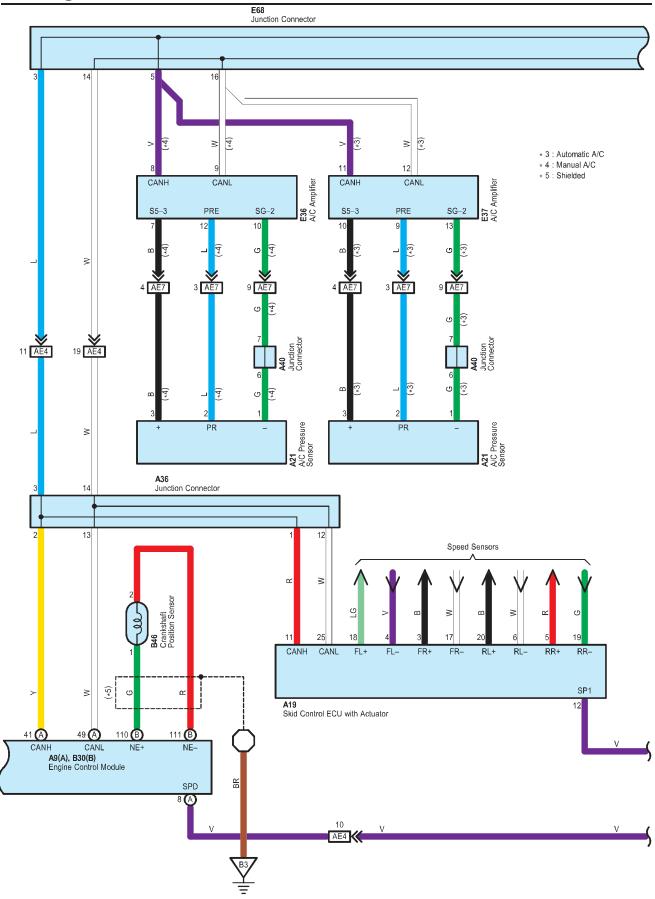
: Connector Joining Wire Harness and Wire Harness

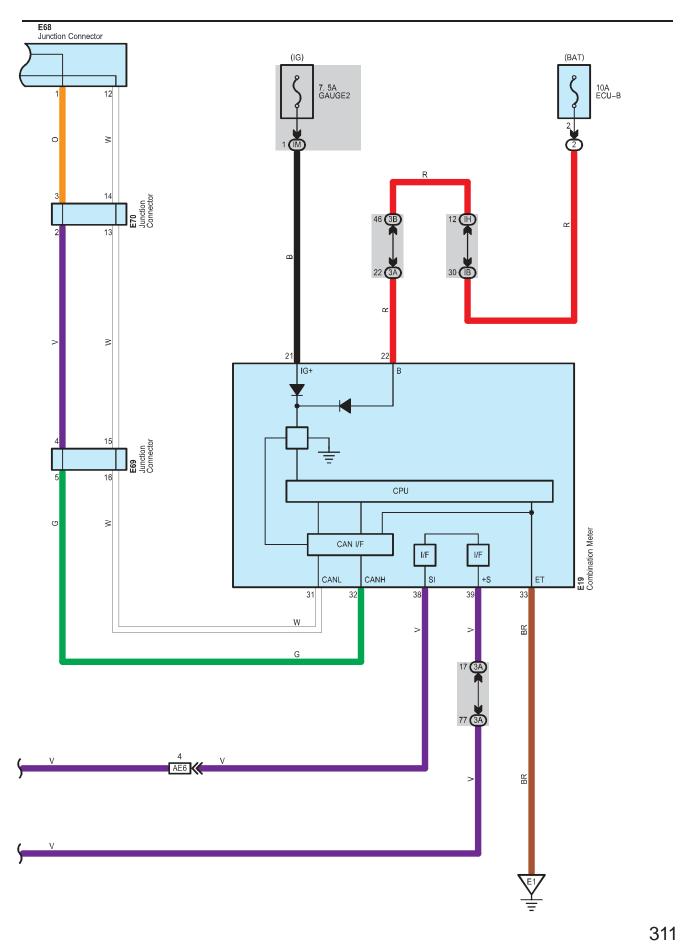
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE4	- 66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6	00				
AE7	66	ngine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)			
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)			
DAI	65 (2AZ-FE)	Engine whe and Engine Room Main whe (hiside of the Engine Room R/B No. 1 and Engine Room J/B No. 1)			
EK2	66	Instrument Panel Wire and Floor Wire (Left Kick Panel)			
EL3	66	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)			
SK1	66	Fuel Gauge Wire and Floor Wire (Under the Console Box)			

Code	See Page	Ground Points Location	
A1	64 (2GR-FE)	Front Left Fender	
Δ'	65 (2AZ-FE)	TOTAL CERT FORCE	
А3	64 (2GR-FE)		
7.5	65 (2AZ-FE)	Front Right Fender	
A4	64 (2GR-FE)	Torritagniti ender	
A4	65 (2AZ-FE)		
B1	65 (2AZ-FE)	Left Side of the Cylinder Head	
В3	64 (2GR-FE)	Left Slue of the Cylinder Flead	
E1	66	Left Kick Panel	









Cooling Fan for 2GR-FE

System Outline

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

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
A9	Α	50 (2GR-FE)	A	37	56	E36	55
А	19	50 (2GR-FE)	A39		50 (2GR-FE)	E37	55
A	21	50 (2GR-FE)	A4	40	50 (2GR-FE)	E68	55
A	30	50 (2GR-FE)	B4	Α	51 (2GR-FE)	E69	55
A	A31 50 (2GR-FE)		B30	В	51 (2GR-FE)	E70	55
A	32	50 (2GR-FE)	B4	16	51 (2GR-FE)		
A36		56	Ε´	19	54		

: Relay Blocks

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

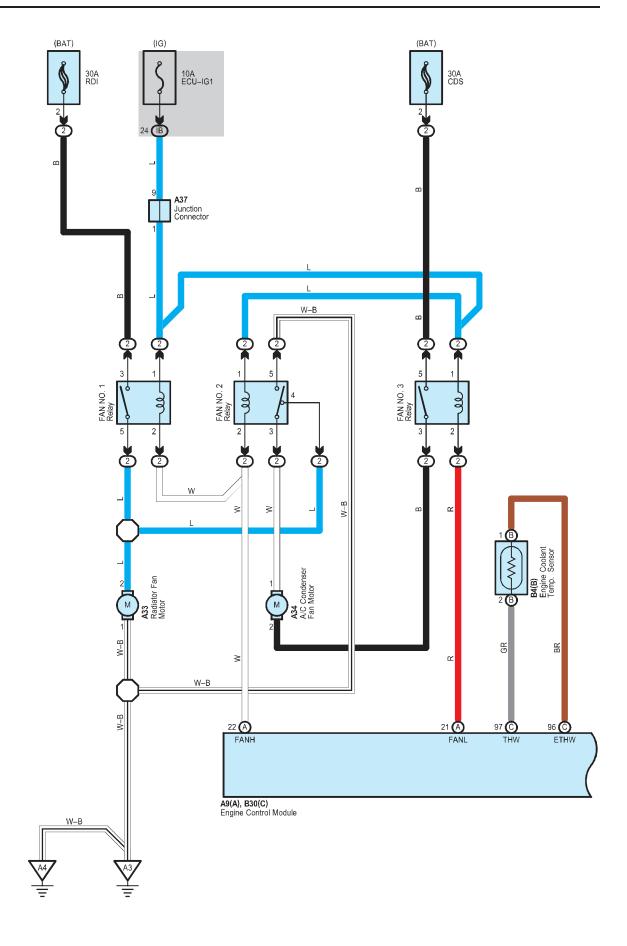
: Junction Block and Wire Harness Connector

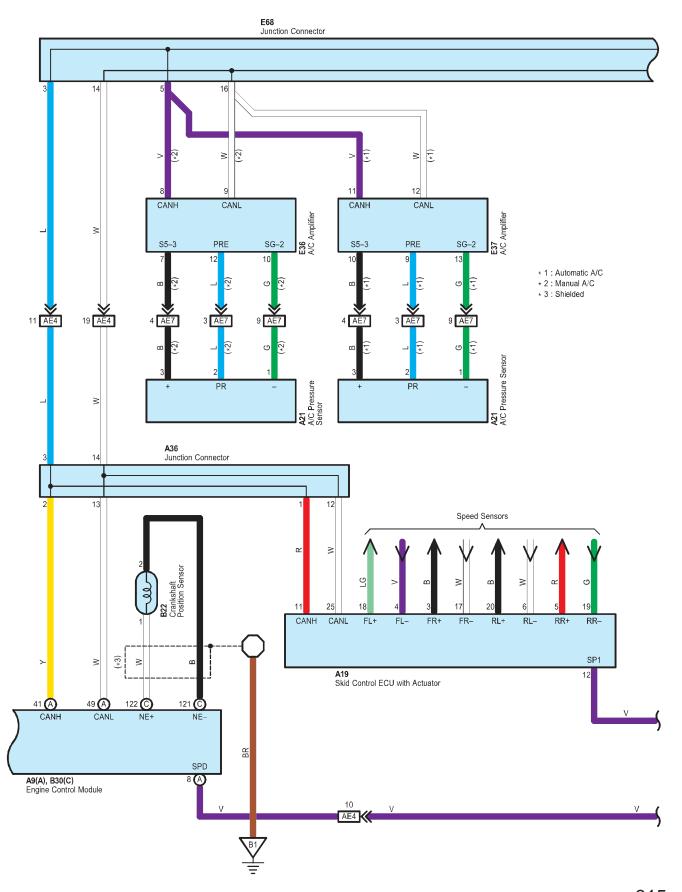
Code	See Page	Junction Block and Wire Harness (Connector Location)	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
3B	36		
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IM	31		

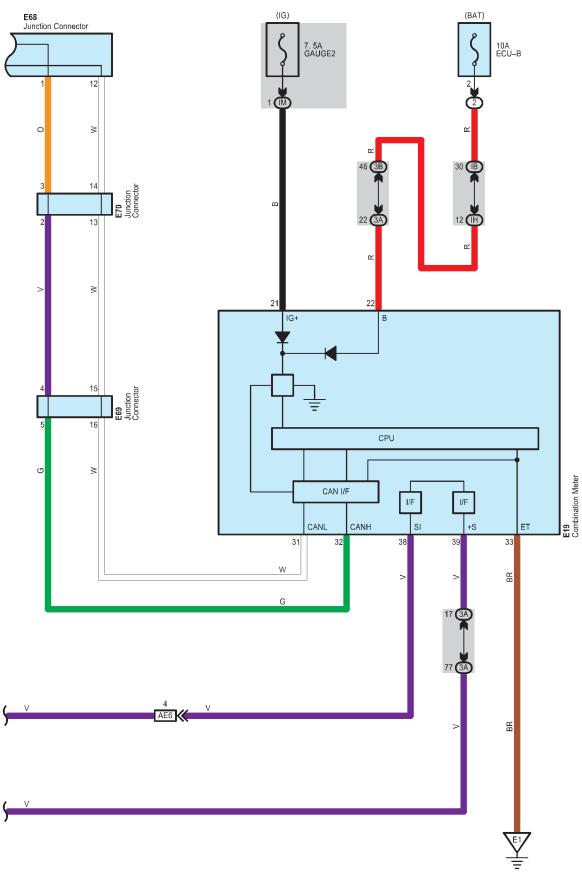
: Connector Joining Wire Harness and Wire Harness

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

Code	See Page	Ground Points Location	
A3	64 (2GR-FE)	Front Right Fender	
A4	04 (2GK-1 L)		
В3	64 (2GR-FE)	eft Side of the Cylinder Head	
E1	66	Left Kick Panel	







System Outline

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

: Parts Location

Co	de	See Page	Code		See Page	Code	See Page
A9	A 52 (2AZ–FE)		A37		56	E37	55
A.	19	52 (2AZ-FE)	B4	В	53 (2AZ-FE)	E68	55
A:	21	52 (2AZ-FE)	B2	22	53 (2AZ-FE)	E69	55
A33		A33 52 (2AZ–FE)		С	53 (2AZ-FE)	E70	55
A:	34	52 (2AZ-FE)	E1	19	54		
A36		56	E36		55		

: Relay Blocks

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

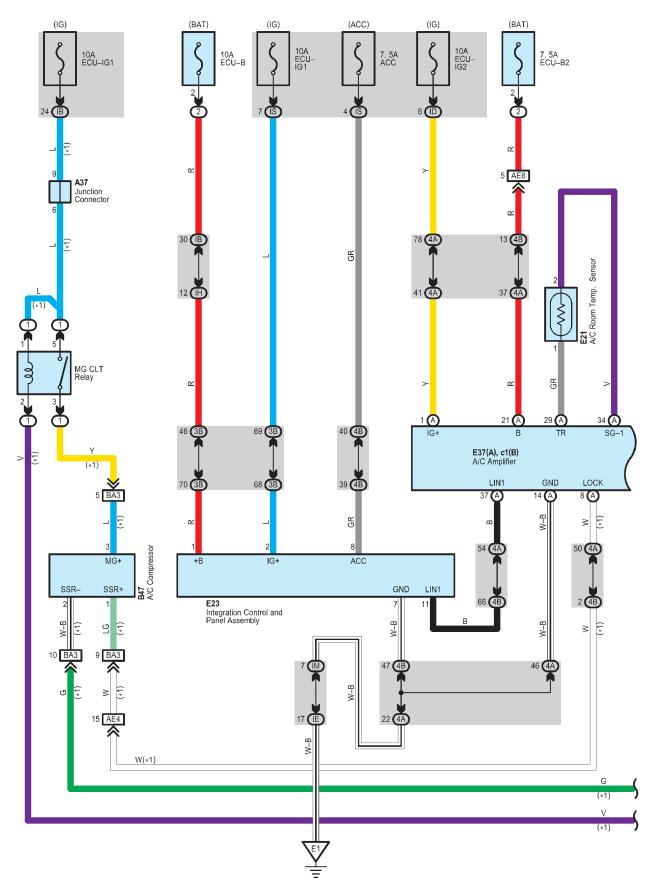
: Junction Block and Wire Harness Connector

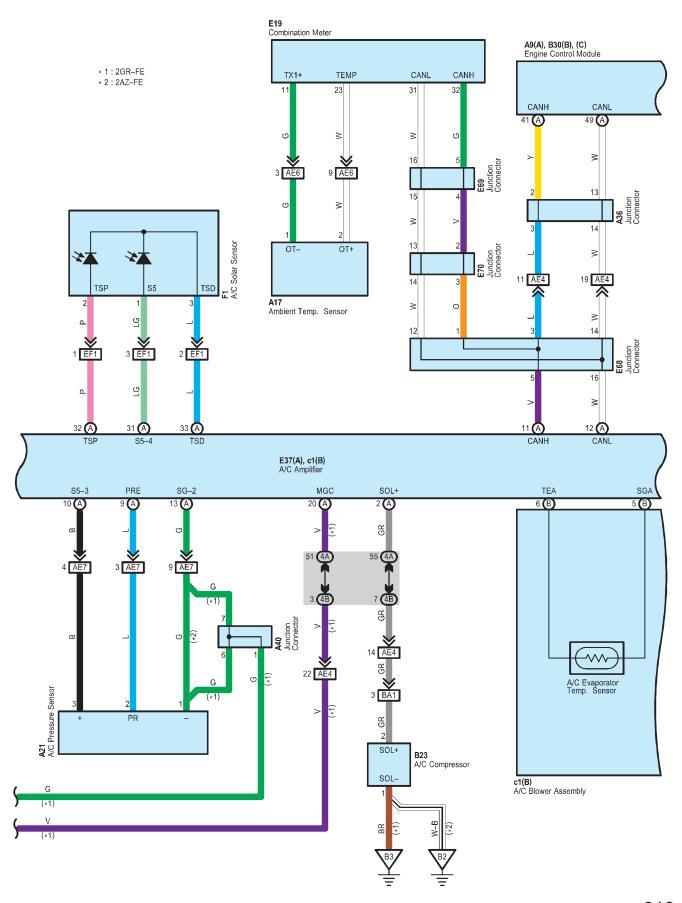
Code	See Page	Junction Block and Wire Harness (Connector Location)	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
3B			
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
IH	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IM	31		

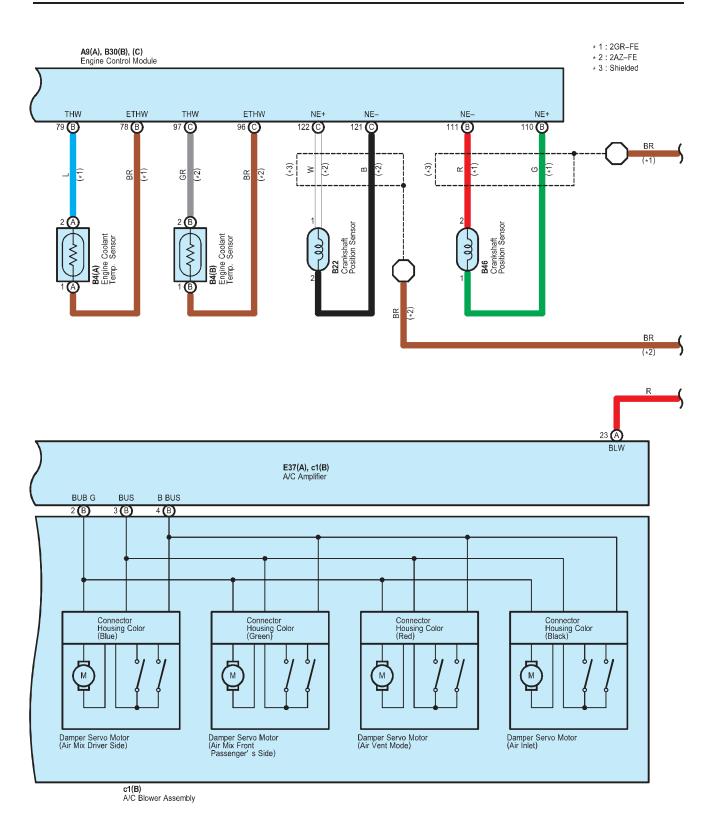
: Connector Joining Wire Harness and Wire Harness

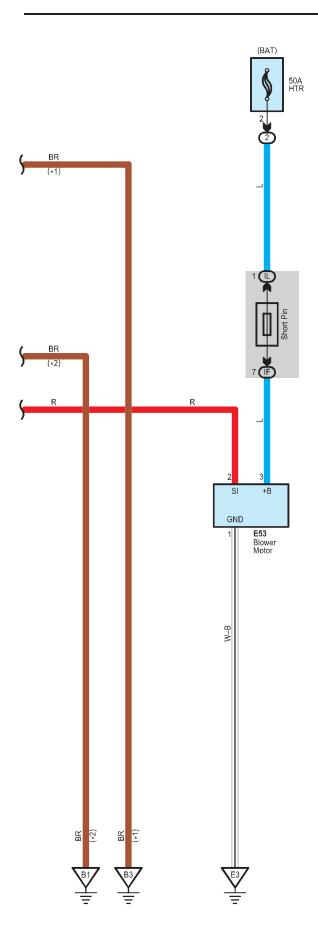
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)			
AE6	Linging Noon Wall wille and institution range will (Left Side of the institution range)				
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)			

Code	See Page	Ground Points Location		
А3	65 (2AZ–FE)	Front Right Fender		
A4	03 (ZAZ-FE)	FIGUR NIGHT FEHICE		
B1	65 (2AZ-FE)	Left Side of the Cylinder Head		
E1	66	Left Kick Panel		









Automatic Air Conditioning and Clock

Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	Α	50 (2GR-FE)	B4	Α	51 (2GR-FE)	E21		54
A9		52 (2AZ-FE)		В	53 (2AZ-FE)	E2	23	54
A17		50 (2GR-FE)	B22		53 (2AZ-FE)	E37	Α	55
A17		52 (2AZ-FE)	B23		51 (2GR-FE)	E53		55
A21		50 (2GR-FE)	B23		53 (2AZ-FE)	E68		55
		52 (2AZ-FE)	B30	В	51 (2GR-FE)	Εθ	69	55
A36		56	1 530	С	53 (2AZ-FE)	E7	70	55
A37		56	B46		51 (2GR-FE)	F1		57
Δ.	A40	50 (2GR-FE)		47	51 (2GR-FE)	c1	В	57
A40		52 (2AZ-FE)	E19		54			

: Relay Blocks

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

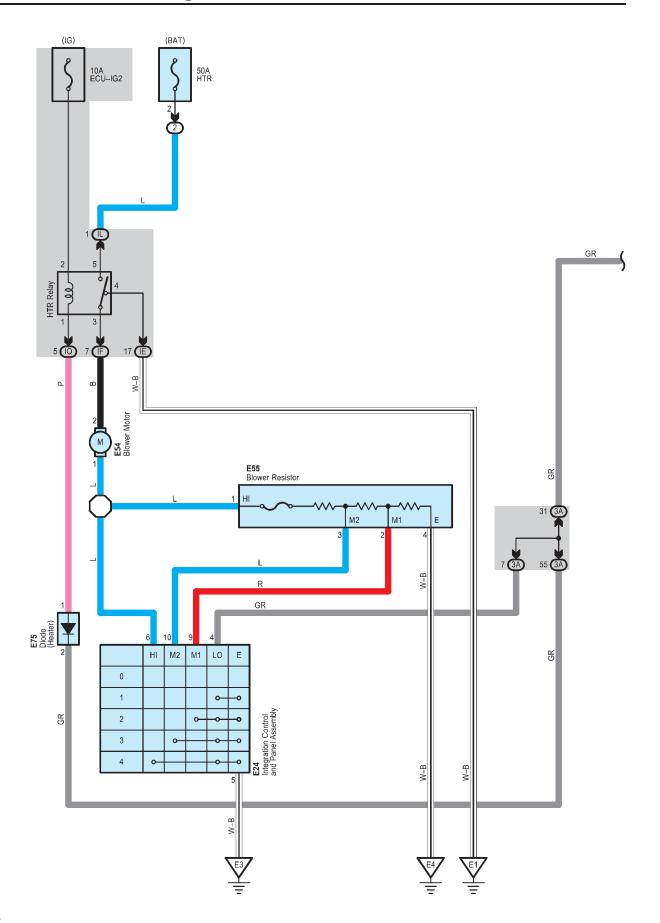
: Junction Block and Wire Harness Connector

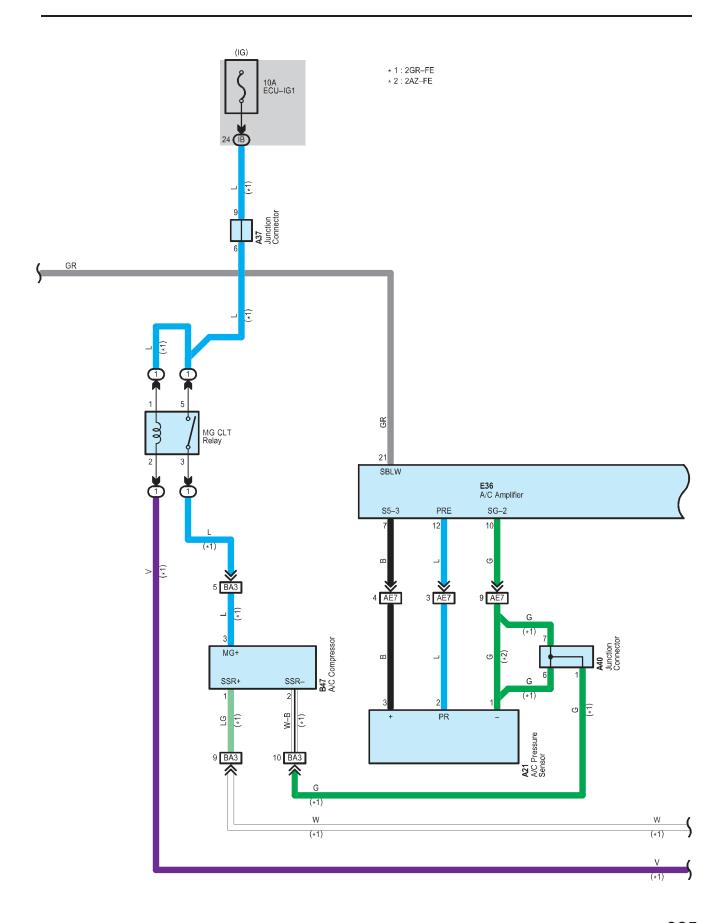
Code	See Page	Junction Block and Wire Harness (Connector Location)			
3B	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)			
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)			
4B	44				
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)			
ID	30	Instrument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

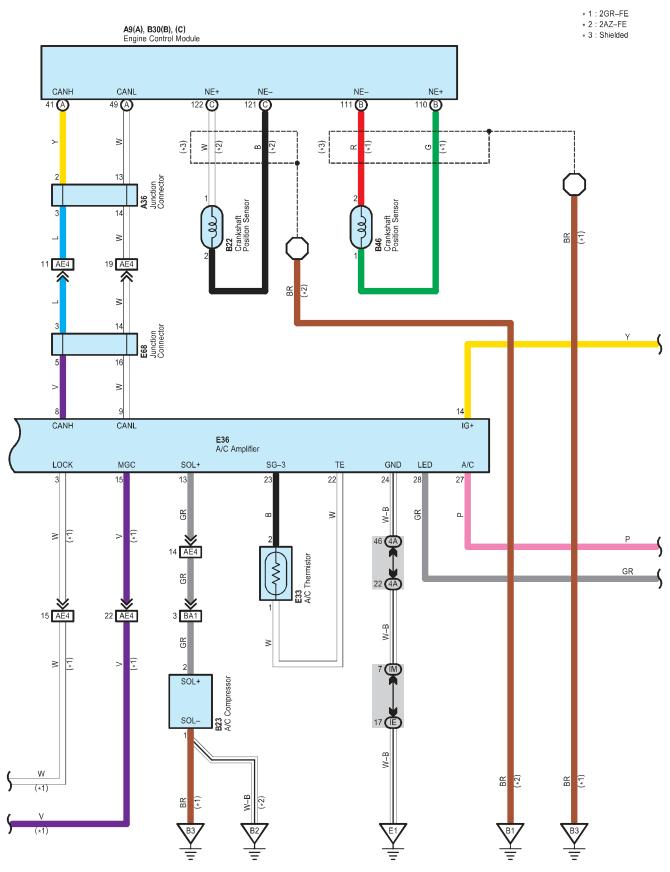
: Connector Joining Wire Harness and Wire Harness

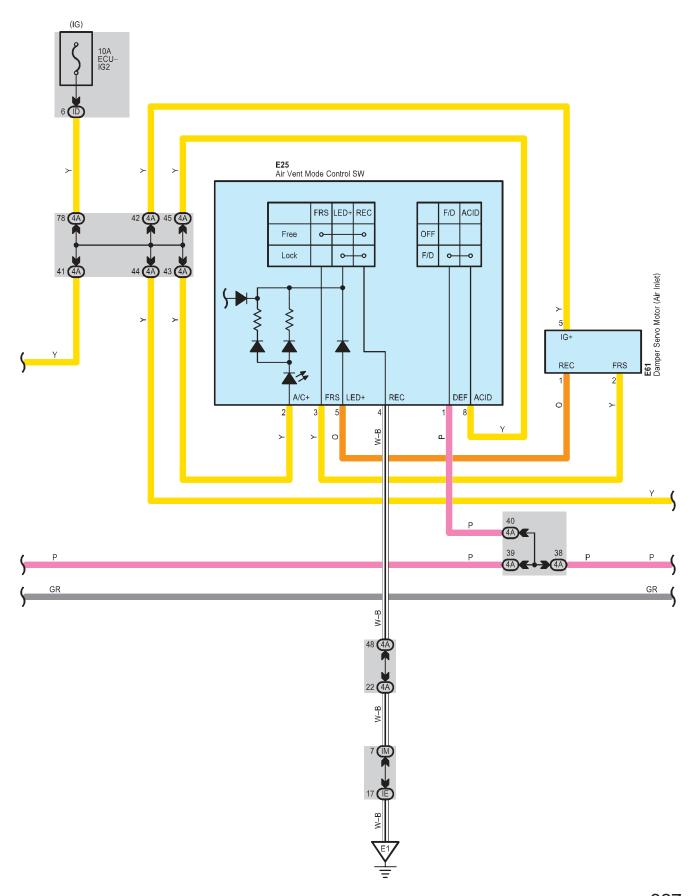
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)		
AE6	00	Linguise (Noon) ividing vivile and instrument ranei vivile (Lent Side of the instrument ranei)		
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)		
AE8	00	Engine Room Main whe and instrument Faner whe (Right Side of the Instrument Paner)		
BA1	64 (2GR-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)		
DAT	65 (2AZ-FE)			
BA3	64 (2GR-FE)			
EF1	66	Instrument Panel Wire and Instrument Panel No.2 Wire (Left Side of the Instrument Panel)		

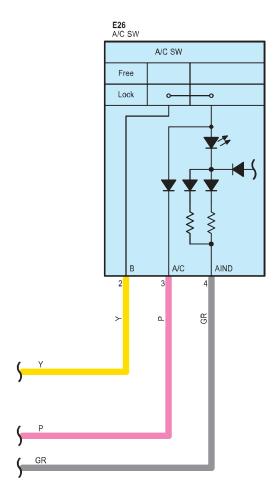
Code	See Page	Ground Points Location		
B1	65 (2AZ–FE)	Left Side of the Cylinder Head		
B2	05 (ZAZ-FE)			
В3	64 (2GR-FE)			
E1	66	Left Kick Panel		
E3	66	Instrument Panel Reinforcement Center		











O : Parts Location

Code		See Page	Co	de	See Page	Code	See Page	
A9	Α	A 50 (2GR–FE) B23 51 (2GR–FE) E33 54	54					
7.9	52 (2AZ–FE) 53 (2AZ–F		53 (2AZ-FE)	E36	55			
A	21	50 (2GR-FE)	B30	В	51 (2GR-FE)	E54	55	
		52 (2AZ-FE)	D30	С	53 (2AZ-FE)	E55	55	
A	36	56	B46		51 (2GR-FE)	E61	55	
A	37	56	B	47	51 (2GR-FE)	E68	55	
Δ,	40	50 (2GR-FE)	E24		54	E75	55	
^.	τυ	52 (2AZ-FE)	E:	25	54	_		
B	22	53 (2AZ-FE)	E:	26	54			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)	
'	23 (2AZ-FE)	Engine Room Rob No. 1 (Engine Compartment Len)	
2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right)	
	27 (2AZ-FE)	Englie Room N.B.140.2 (Englie Compartment Ngrit)	

: Junction Block and Wire Harness Connector

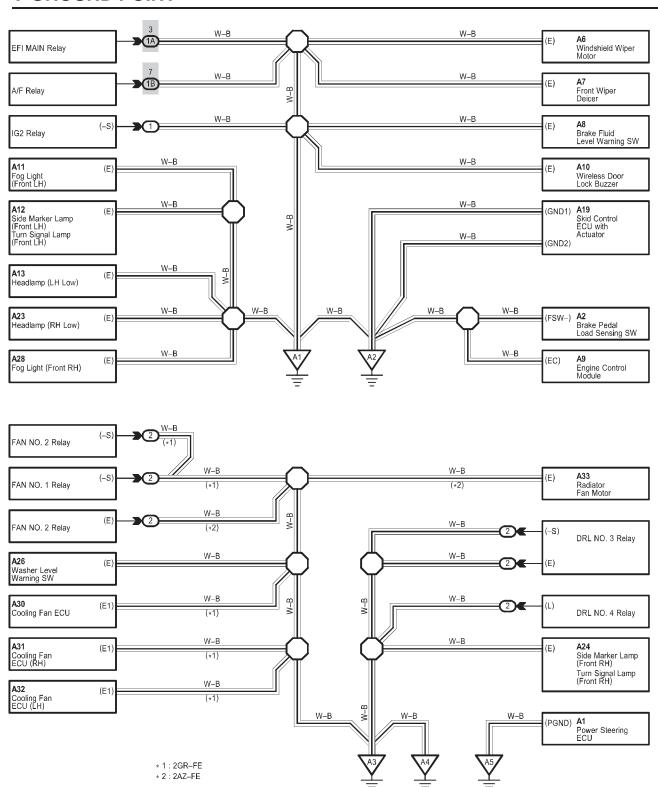
Code	See Page	Junction Block and Wire Harness (Connector Location)	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)	
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)	
IB	30	Engine Room Main Wire and Instrument Panel J/B (Cowl Side Left)	
ID			
IE	20		
IF	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)	
IL		Instrument Paner whe and instrument Paner 0/B (Cowi Side Left)	
IM	31		
IQ	31		

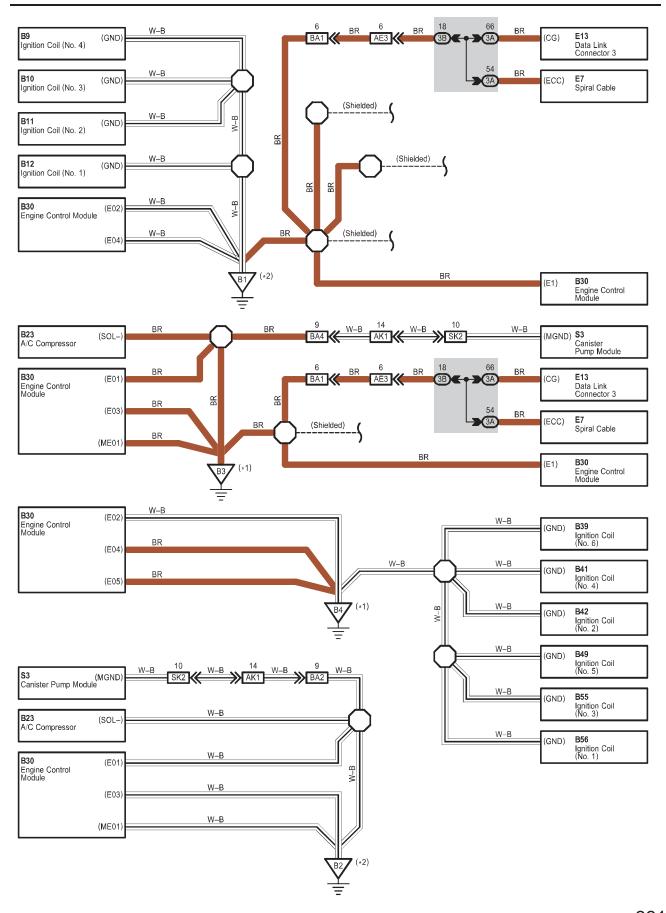
: Connector Joining Wire Harness and Wire Harness

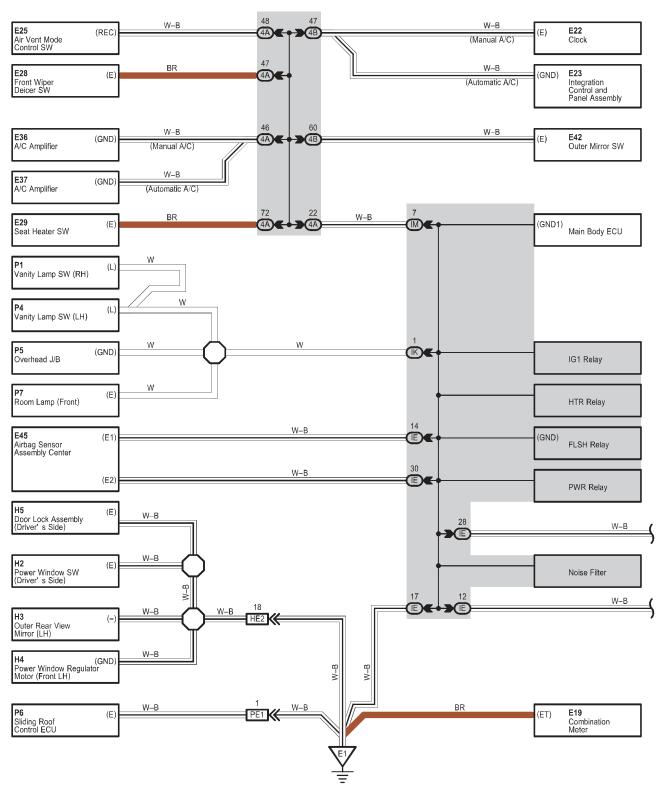
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)
AE7	66	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)
BA1	64 (2GR-FE)	
DAI	65 (2AZ-FE)	Engine Wire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

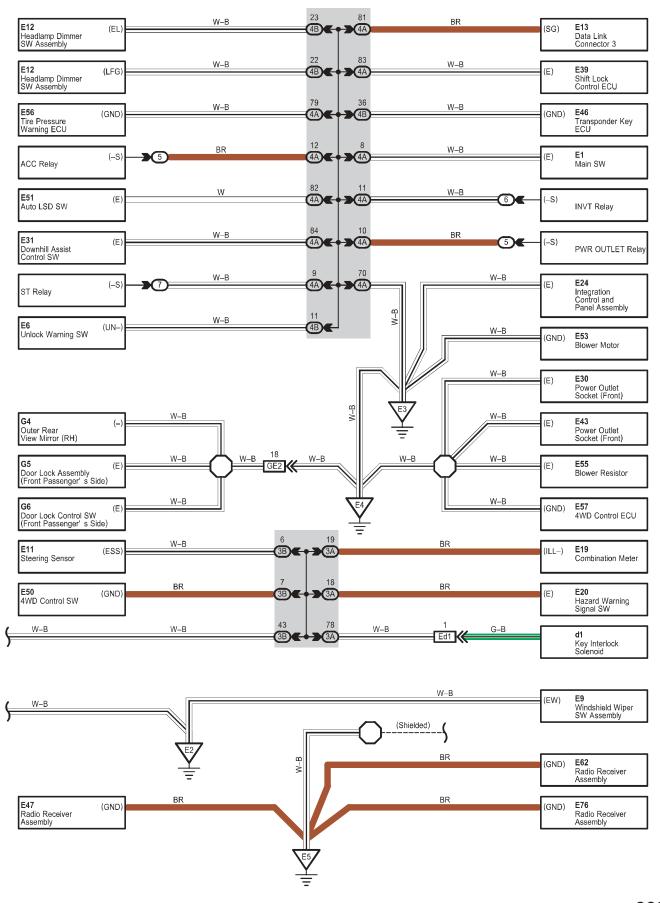
: Ground Points

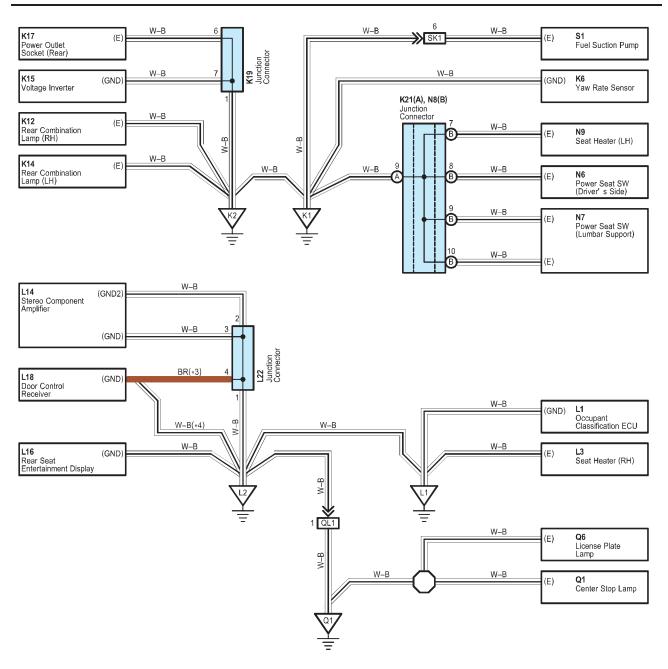
Code	See Page	Ground Points Location
B1	65 (2AZ-FE)	
B2	03 (ZAZ-I L)	Left Side of the Cylinder Head
В3	64 (2GR-FE)	
E1	66	Left Kick Panel
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel











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

: Parts Location

Code		de	See Page	Co	de	See Page	Code	See Page
Г	K19		59	L2	22	60		
Г	K21	Α	62	N8	В	62		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
1	22 (2GR-FE)	Engine Room R/B No.1 (Engine Compartment Left)	
'	23 (2AZ-FE)	_ingline (100m) 17/15 140. In Lengtine Compartment Leng	
2	26 (2GR-FE)	Engine Room R/B No.2 (Engine Compartment Right) R/B No.5 (Cowl Side Left)	
2	27 (2AZ-FE)		
5	28		
6	28	R/B No.6 (Cowl Side Left)	
7	29	R/B No.7 (Cowl Side Left)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	
3A	38	Instrument Panel Wire and J/B No.3 (Instrument Panel Center)
3B	30	mistament and whe and ord No.5 (mistament and benter)
4A	44	Instrument Panel Wire and J/B No.4 (Instrument Panel Center)
4B	44	instrument Fanet whe and 3/D No.4 (instrument Fanet Center)
IE	30	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)
IK	30	Roof Wire and Instrument Panel J/B (Cowl Side Left)
IM	31	Instrument Panel Wire and Instrument Panel J/B (Cowl Side Left)

: Connector Joining Wire Harness and Wire Harness

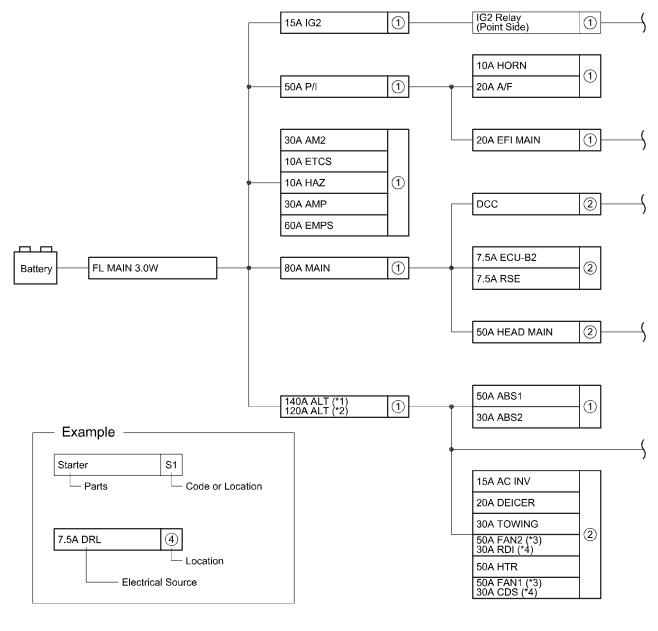
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
AE3	66	Engine Room Main Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	
AK1	66	Engine Room Main Wire and Floor Wire (Left Kick Panel)	
BA1	64 (2GR-FE)		
] DAT	65 (2AZ-FE)	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.1 and Engine Room J/B No.1)	
BA2	65 (2AZ-FE)	Engine whe and Engine Room Main whe (inside of the Engine Room R/B No. 1 and Engine Room 3/B No. 1)	
BA4	64 (2GR-FE)		
Ed1	66	Instrument Panel Wire and Solenoid Wire (Steering Column)	
GE2	66	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)	
HE2	66	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)	
PE1	66	Roof Wire and Instrument Panel Wire (Left Side of the Instrument Panel)	
QL1	67	Back Door No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)	
SK1	- 66	Fuel Gauge Wire and Floor Wire (Under the Console Box)	
SK2] 00	ruel Gauge ville and riool ville (officer the Corisole Box)	

I GROUND POINT

: Ground Points

V		
Code	See Page	Ground Points Location
A1	64 (2GR-FE)	
AI	65 (2AZ-FE)	Front Left Fender
A2	64 (2GR-FE)	- Troncenter ender
72	65 (2AZ-FE)	
A3	64 (2GR-FE)	
AJ	65 (2AZ-FE)	Front Right Fender
A4	64 (2GR-FE)	- Homenighth ender
74	65 (2AZ-FE)	
A5	66	Left Side of the Instrument Panel
B1	65 (2AZ–FE)	
B2	03 (ZAZ-I L)	Left Side of the Cylinder Head
В3	64 (2GR-FE)	Left Side of the Cylinder Head
B4	04(2011-12)	
E1	66	Left Kick Panel
E2	66	Instrument Panel Reinforcement Left
E3	66	Instrument Panel Reinforcement Center
E4	66	Right Kick Panel
E5	66	Instrument Panel Reinforcement Center
K1	67	Left Center Pillar
K2	67	Left Quarter Panel
L1	67	Right Center Pillar
L2	67	Right Quarter Panel
Q1	67	Left Side of the Back Door

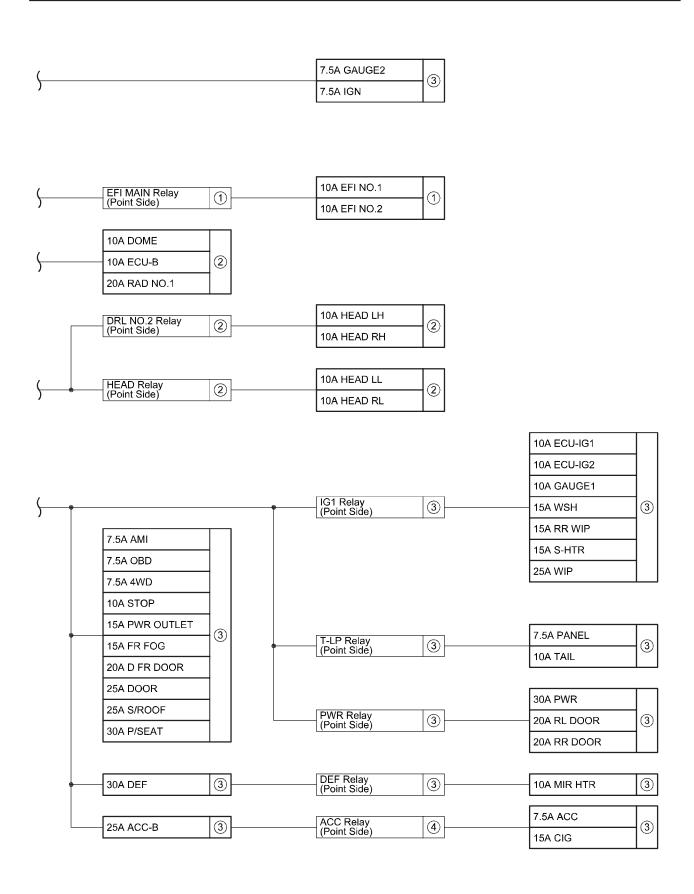
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.



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

[LOCATION]

- ①: Engie Room R/B No.1 and Engine Room J/B No.1 (See Page 22 (*3), 23 (*4))
- ②: Engie Room R/B No.2 (See Page 26 (*3), 27 (*4))
- ③: Instrument Panel J/B (See Page 30)
- 4 : R/B No.5 (See Page 28)



J POWER SOURCE (Current Flow Chart)

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

	Fuse	System	Page
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
10A	EFI NO.1	Electronically Controlled Transmission and A/T Indicator (2GR-FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
10A	EFI NO.2	Engine Control (2AZ–FE)	116
TUA	EFINO.2	Engine Control (2GR-FE)	100
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR-FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
10A	ETCS	Electronically Controlled Transmission and A/T Indicator (2GR-FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Engine Immobiliser System	130
10A	HAZ	Turn Signal and Hazard Warning Light	146
10A	HORN	Horn	280
		Engine Control (2AZ–FE)	116
450	100	Engine Control (2GR–FE)	100
15A	IG2	Ignition (2AZ–FE)	88
		Ignition (2GR-FE)	84
20A	A/F	Engine Control (2GR-FE)	100
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR-FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	220
20A	EFI MAIN	Electronically Controlled Transmission and A/T Indicator (2GR-FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR-FE)	100
		Engine Immobiliser System	130
30A	ABS2	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
30A	AMP	Audio System (JBL)	288
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
30A	AM2	Ignition (2AZ–FE)	88
		Ignition (2GR–FE)	84
		Starting	82
50A	ABS1	ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
60A	EMPS	EPS	262
	1	1	

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

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

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

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

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

J POWER SOURCE (Current Flow Chart)

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

Instrument Panel J/B (See page 30)

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

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

	Fuse	System	Page
7.5A	AM1	Engine Control (2GR–FE)	100
7.071	7 ((V))	Starting	82
		ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and	050
		Hill-Start Assist Control	256
		Audio System (Except JBL)	296
		Audio System (JBL) Charging (w/ Trailer Towing)	288 92
		Charging (w/o Trailer Towing) Charging (w/o Trailer Towing)	96
		Combination Meter	300
		Cooling Fan (2GR–FE)	308
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
7.5A	GAUGE2	Engine Control (2AZ–FE)	116
7.07	0,10022	Engine Control (2GR–FE)	100
		EPS	262
		Front Fog Light	140
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Radiator Fan and Condenser Fan (2AZ-FE)	314
		Seat Belt Warning	172
		SRS	267
		Taillight and Illumination	158
		Tire Pressure Warning System	274
		4WD	246
7.5A		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
	IGN	Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Engine Immobiliser System Seat Belt Warning	130 172
		SRS	267
7.5A	OBD	Data Link Connector 3	128
7.5A 7.5A	PANEL	Taillight and Illumination	158
7.5A	4WD	4WD	246
		ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill–Start Assist Control	256
10A	ECU-IG1	Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)	318
		Clock (w/o Automatic Air Conditioning)	282
		Cooling Fan (2GR–FE)	308
		Cooling Fan (2GR–FE)	308

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

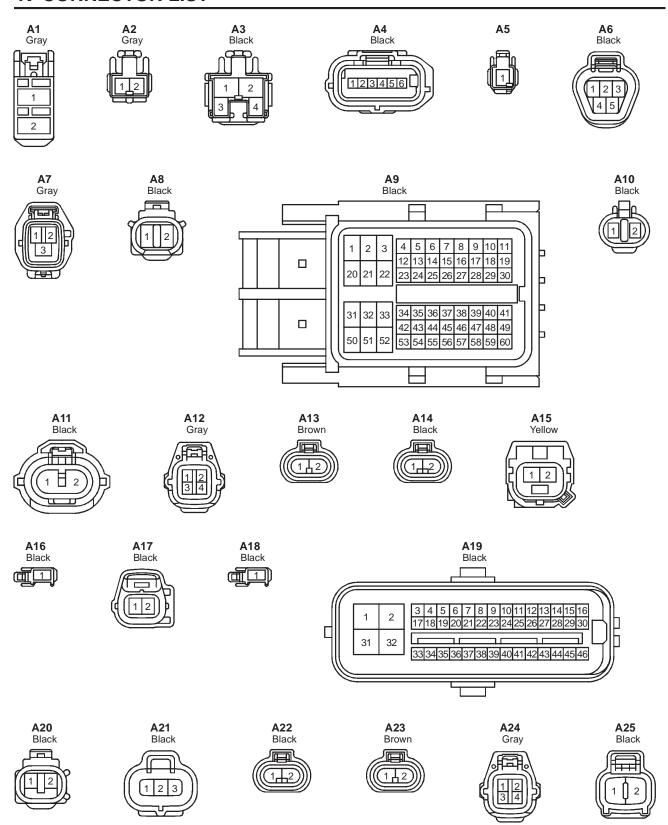
J POWER SOURCE (Current Flow Chart)

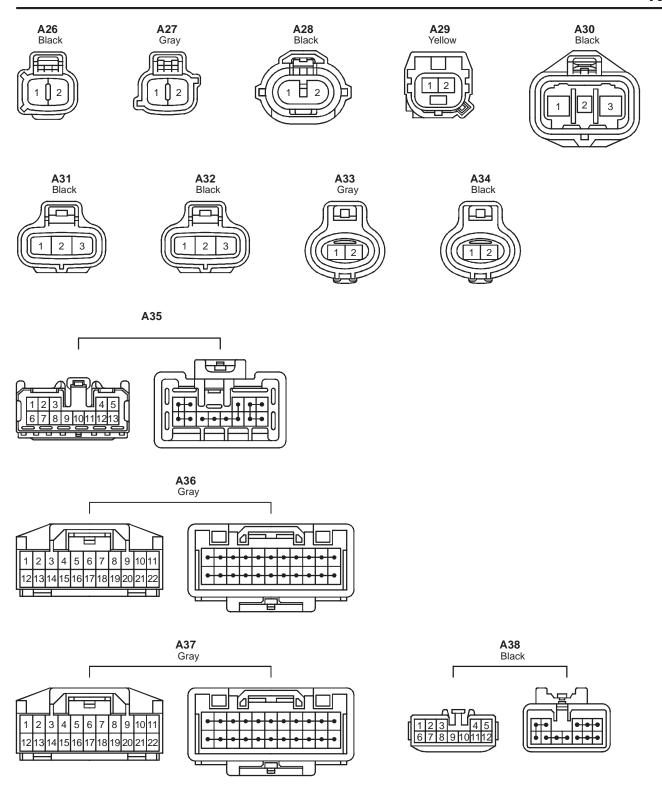
	Fuse	System	Page
		Door Lock Control	204
10A		EPS	262
		Front Window Deicer	190
		Headlight	134
		Interior Light	150
		Key Reminder	170
		Light Auto Turn Off System	144
	F011 104	Manual Air Conditioning	324
	ECU-IG1	Power Outlet (115V)	182
		Radiator Fan and Condenser Fan (2AZ-FE)	314
		Shift Lock	210
		Sliding Roof	278
		Stop Light	166
		Tire Pressure Warning System	274
		Wireless Door Lock Control	196
		4WD	246
		Automatic Air Conditioning and	
		Clock (w/ Automatic Air Conditioning)	318
10A	ECU-IG2	Manual Air Conditioning	324
		Rear Window Defogger and Mirror Heater	284
		Turn Signal and Hazard Warning Light	146
		Back-Up Light	168
	GAUGE1	Charging (w/ Trailer Towing)	92
		Charging (w/o Trailer Towing)	96
10A		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR–FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		4WD	246
10A	MIR HTR	Rear Window Defogger and Mirror Heater	284
		ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and	
	STOP	Hill-Start Assist Control	256
		Cruise Control (2AZ–FE)	238
		Cruise Control (2GR-FE)	230
		Electronically Controlled Transmission and A/T Indicator (2AZ–FE)	220
10A		Electronically Controlled Transmission and A/T Indicator (2GR–FE)	212
		Engine Control (2AZ–FE)	116
		Engine Control (2GR–FE)	100
		Shift Lock	210
		Stop Light	166
		4WD	246
10A	TAIL	Front Fog Light	140
10/3		Taillight and Illumination	158
15A	CIG	Power Outlet (12V)	184

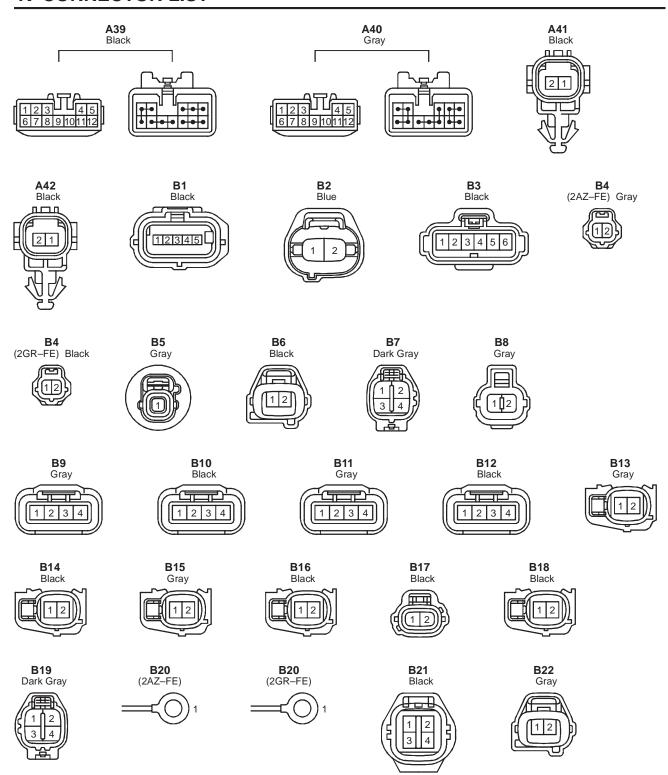
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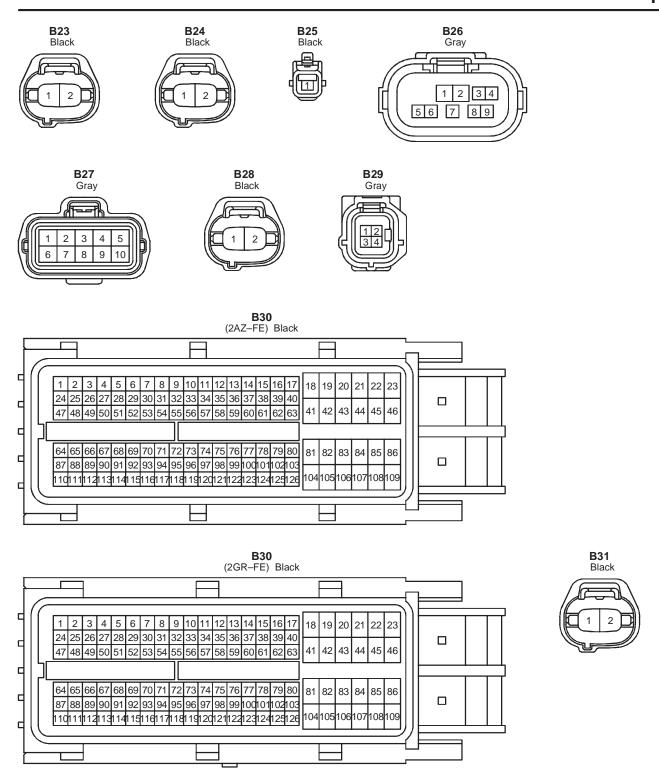
	Fuse	System	Page
15A	FR FOG	Front Fog Light	140
15A	PWR OUTLET	Power Outlet (12V)	184
15A	RR WIP	Rear Wiper and Washer	188
15A	S-HTR	Seat Heater	180
15A	WSH	Front Wiper and Washer	186
	VVON	Rear Wiper and Washer	188
20A	D FR DOOR	Power Window	192
20A	RL DOOR	Power Window	192
20A	RR DOOR	Power Window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

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

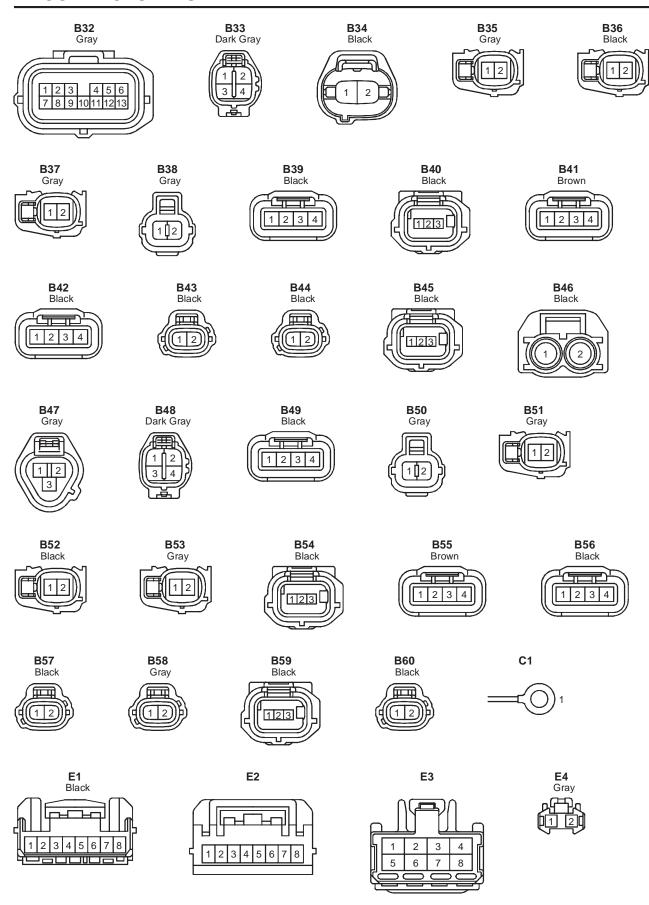


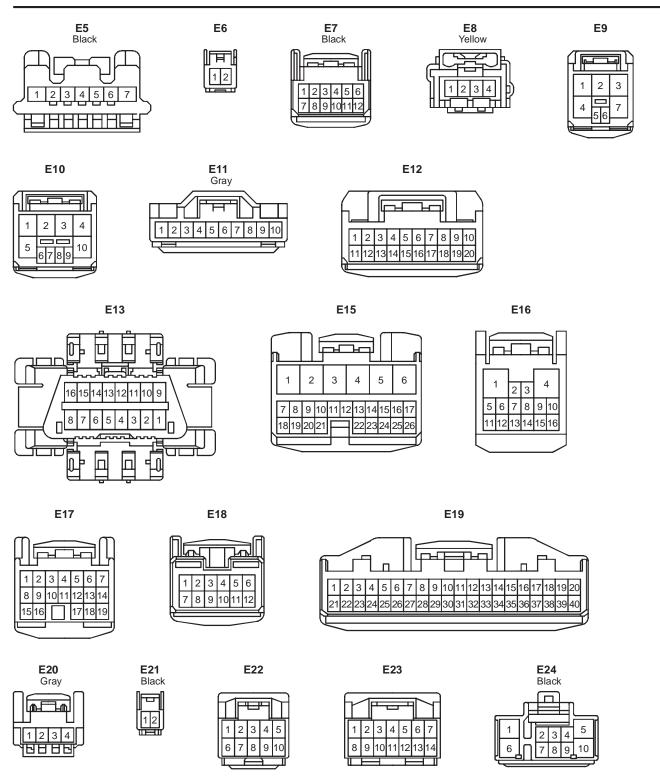


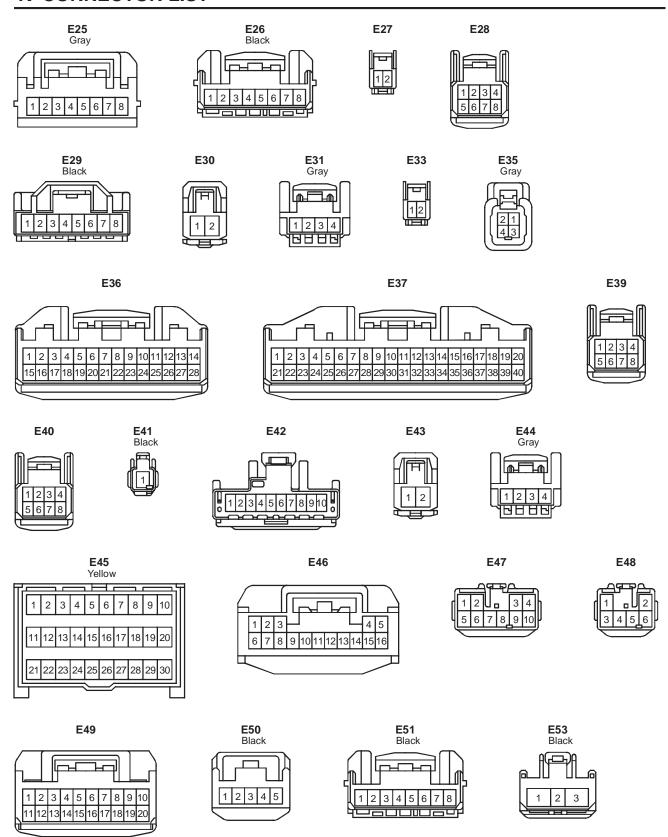


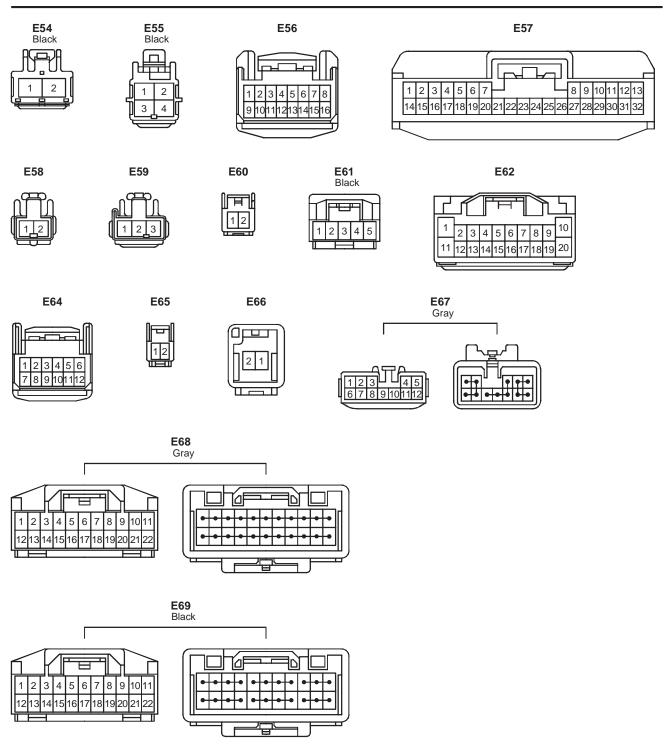


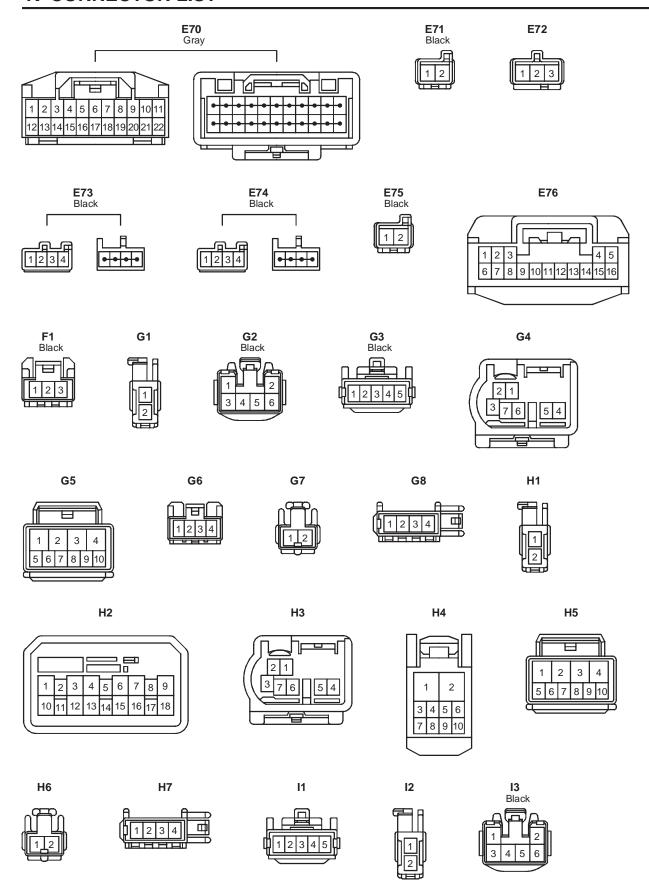
K CONNECTOR LIST

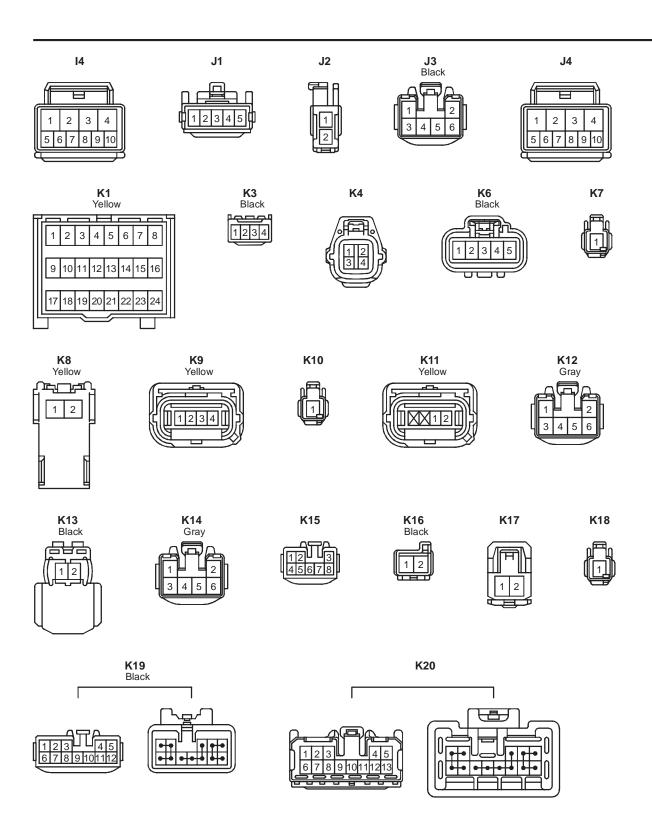


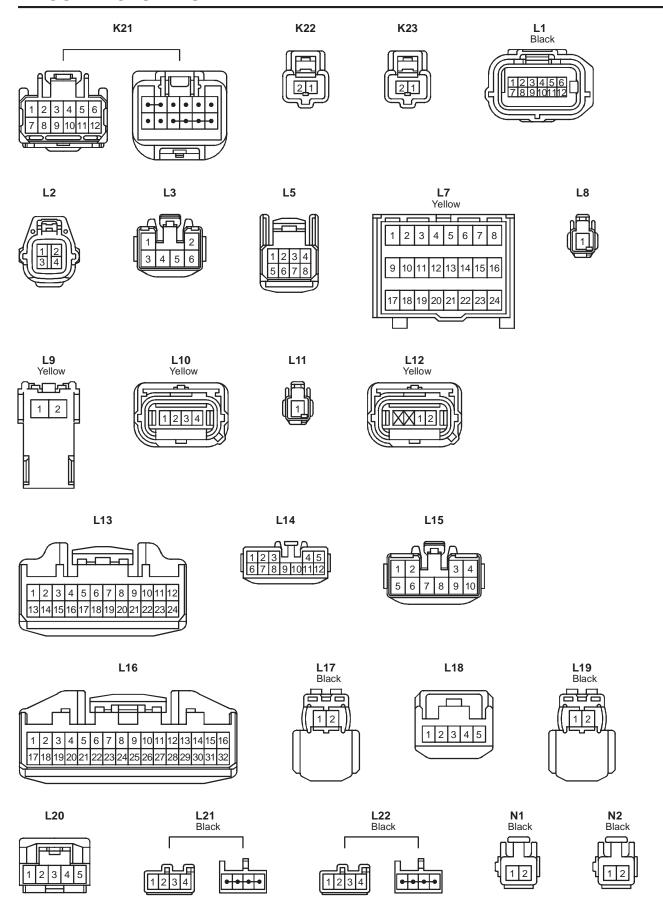


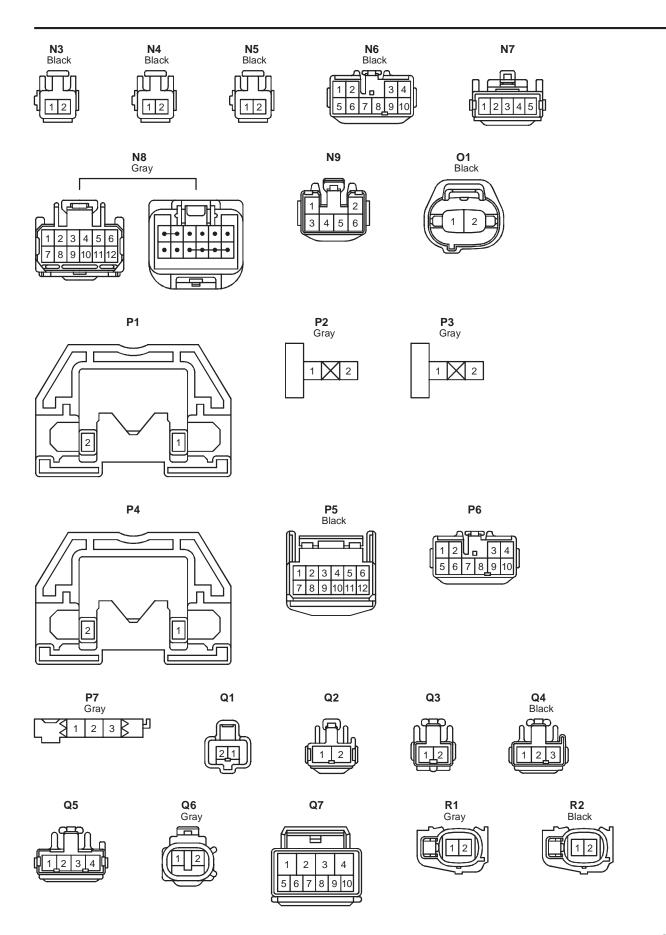


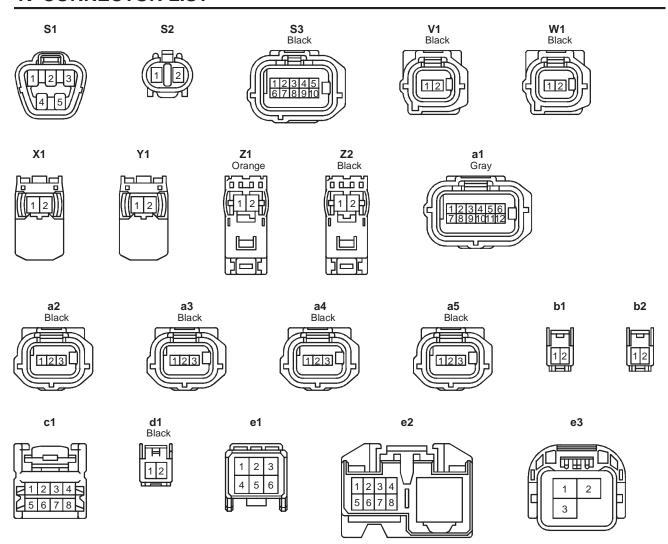


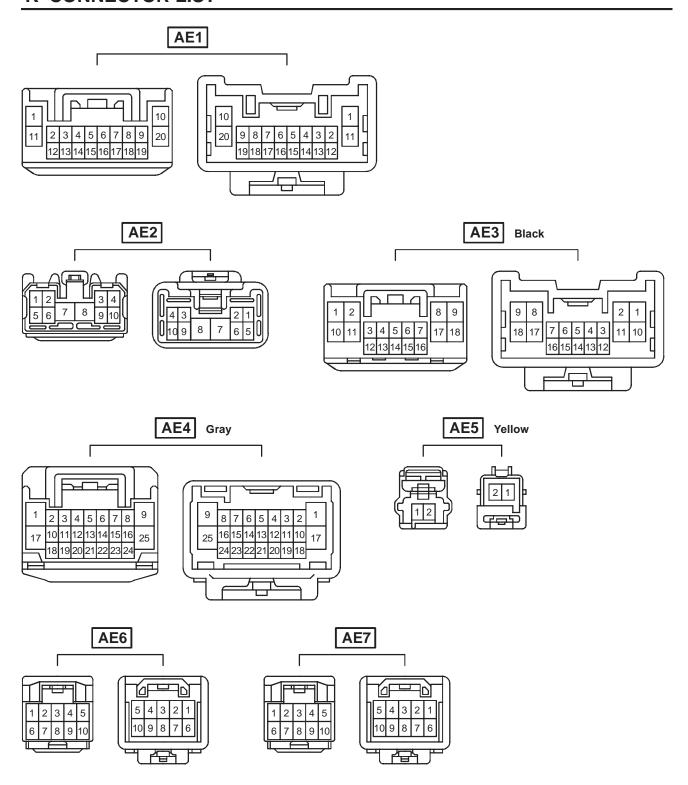


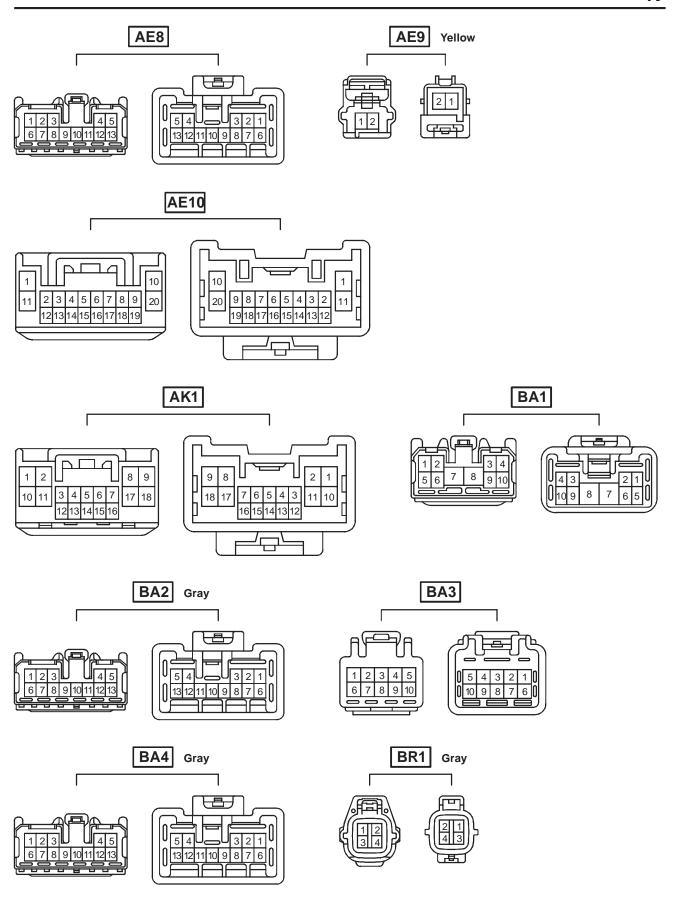


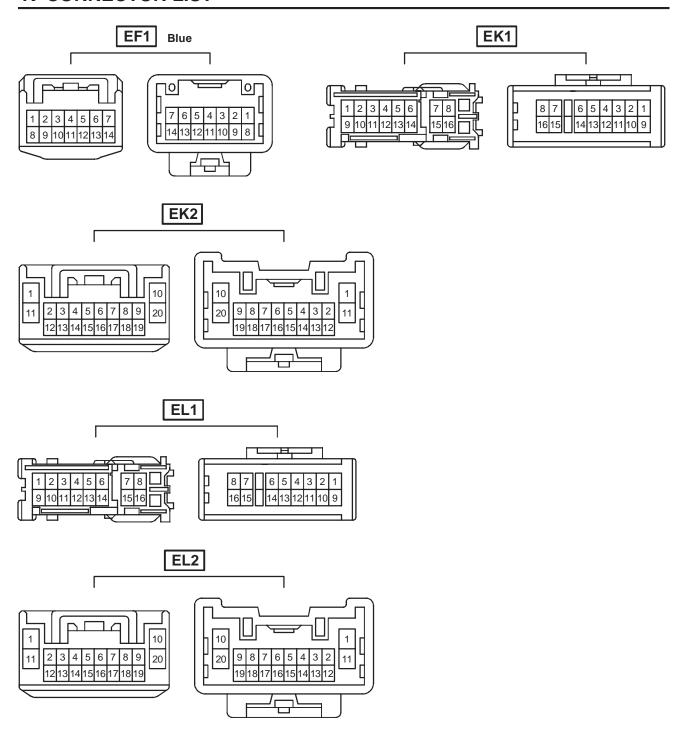


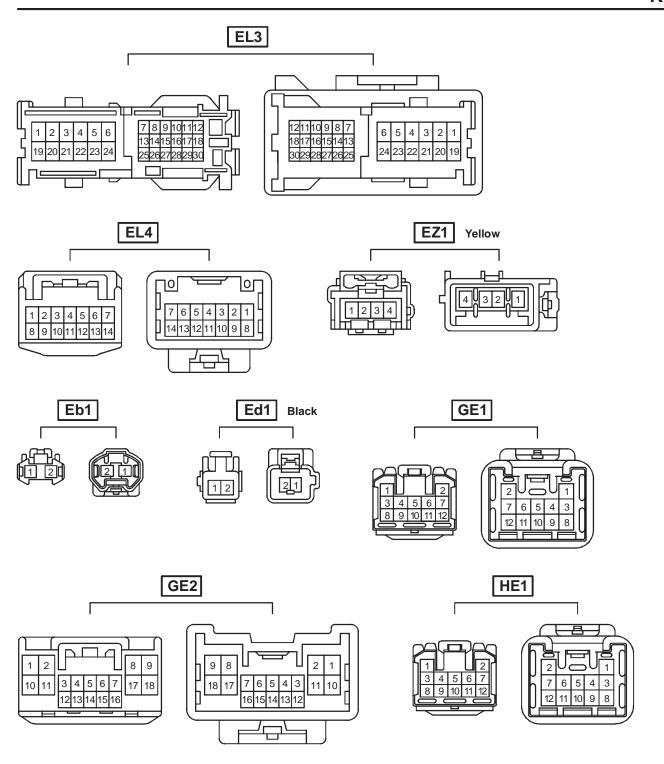


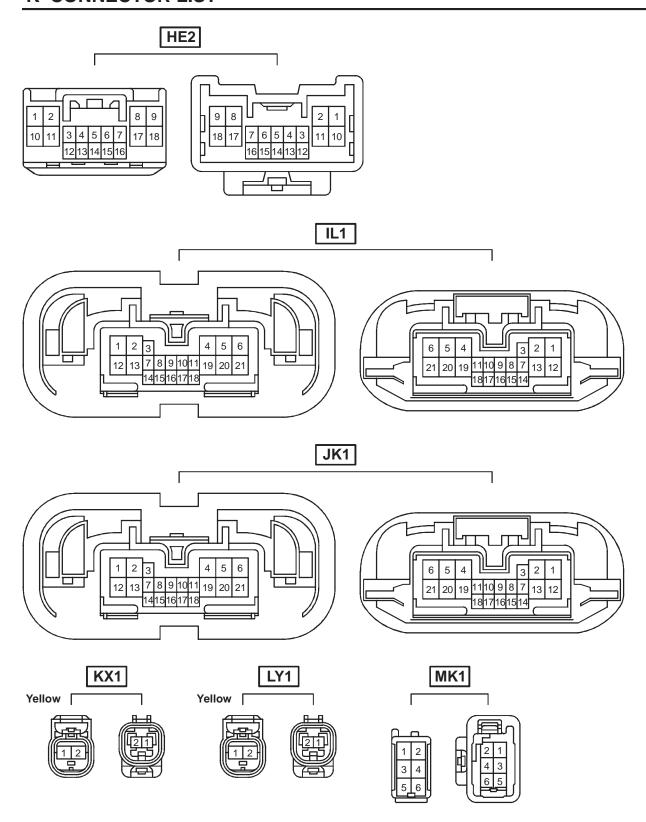


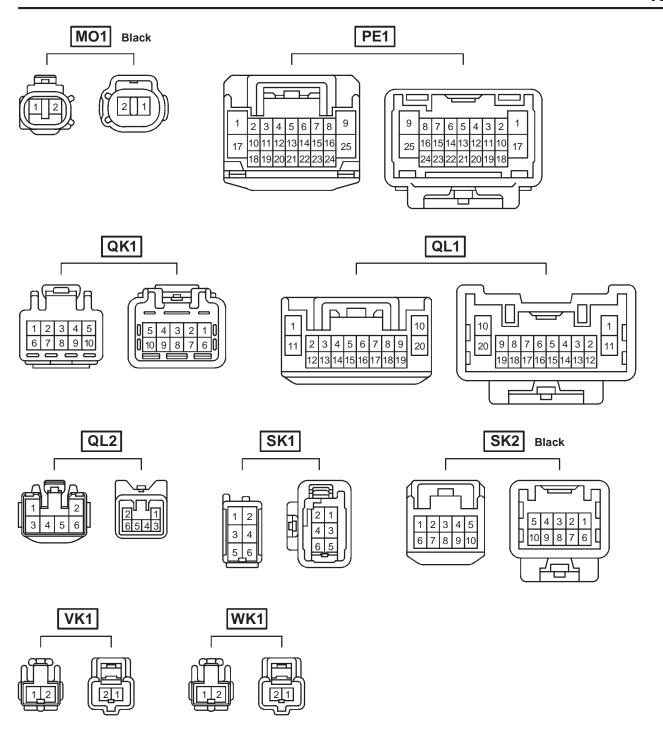












L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A1	Power Steering ECU	90980-12653	В3	Throttle Body Assembly	90980–11858
A2	Brake Pedal Load Sensing SW	90980-10860	B4	Engine Coolant Temp. Sensor	90980-10735
A3	Stop Lamp SW	90980–11118	B5	Engine Oil Pressure SW	90980–11363
A4	Accelerator Position Sensor	90980–12303	B6	Camshaft Position Sensor	90980-10947
A5	Trailer Socket	90980–10871	B7	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
A6	Windshield Wiper Motor	90980–11599	B8	Noise Filter (Ignition)	90980-10843
A7	Front Wiper Deicer	90980–11132	B9	Ignition Coil (No.4)	
A8	Brake Fluid Level Warning SW	90980–11207	B10	Ignition Coil (No.3)	1
A9	Engine Control Module	90980–12461	B11	Ignition Coil (No.2)	90980–11885
A10	Wireless Door Lock Buzzer	90980–11142	B12	Ignition Coil (No.1)	1
A11	Fog Light (Front LH)	82824–60460	B13	Fuel Injector (No.4)	
	Side Marker Lamp (Front LH)		B14	Fuel Injector (No.3)	1
A12	Turn Signal Lamp (Front LH)	90980–10942	B15	Fuel Injector (No.2)	90980–11875
A13	Headlamp (LH Low)	90980–11096	B16	Fuel Injector (No.1)	1
A14	Headlamp (LH High)	90980–11095	B17	Camshaft Timing Oil Control Valve	90980–11162
A15	Airbag Sensor (Front LH)	90980–12490	B18	Knock Control Sensor (Bank 1)	90980–11875
A16	Horn (Low)	90980–10619	B19	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980–11028
A17	Ambient Temp. Sensor	90980–11070		Generator (2AZ–FE)	90980-09213
A18	Horn (High)	90980–10619	B20	Generator (2GR–FE)	90980-09983
A19	Skid Control ECU with Actuator	90980–12297	B21	Generator	90980–11964
A20	Fuel Pump Resistor	90980-11003	B22	Crankshaft Position Sensor	90980–10947
A21	A/C Pressure Sensor	90980–10845	B23	A/C Compressor	00000 10011
A22	Headlamp (RH High)	90980-11095	-	Transmission Revolution Sensor (Counter	90980–11156
A23	Headlamp (RH Low)	90980-11096	B24	Gear)	
7120	Side Marker Lamp (Front RH)	30300 11030	B25	Starter	90980-11400
A24	Turn Signal Lamp (Front RH)	90980–10942	B26	Park/Neutral Position SW	90980-12362
A25	Rear Washer Motor	90980–11051	B27	Electronically Controlled Transmission	90980–11658
A26	Washer Level Warning SW	90980-11068		Solenoid	
A27	Front Washer Motor	90980-11019	B28	Transmission Revolution Sensor (Turbine)	90980–11156
A28	Fog Light (Front RH)	82824–60460	B29	Battery Current Sensor	90980–12495
A29	Airbag Sensor (Front RH)	90980-12490	B30	Engine Control Module (2AZ–FE)	90980–12398
A30	Cooling Fan ECU	90980-12490		Engine Control Module (2GR-FE)	90980–12396
	Cooling Fan ECU (RH)	90900-12030	B31	VSV (Air Intake Control)	90980–11156
A31 A32	Cooling Fan ECU (LH)	90980–10841	B32	Electronically Controlled Transmission Solenoid	90980-12326
A33	Radiator Fan Motor		B33	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	90980–11178
A34	A/C Condenser Fan Motor	90980–10928	B34	VSV (Purge)	90980-11156
A35	Junction Connector	90980–11542	B35	Fuel Injector (No.6)	30300-11130
A36	Junction Connector	30300-11342	B36	Fuel Injector (No.4)	90980–11875
A37	Junction Connector	90980–11915	B37	Fuel Injector (No.2)	30300-11075
			B38	Noise Filter (Ignition LH)	90980-10843
A38	Junction Connector Junction Connector	00000 10000	l——	Ignition Coil (No.6)	90980-10843
A39		90980–10803	B39 B40	VVT Sensor (Bank 2 Exhaust Side)	
A40	Junction Connector		l——	` ´	90980–12353
A41	Speed Sensor (Front LH)	90980–12627	B41	Ignition Coil (No.4)	90980–11885
A42	Speed Sensor (Front RH)	00000 10000	B42	Ignition Coil (No.2)	<u> </u>
B1	Mass Air Flow Meter	90980-12292			
B2	VSV (Purge)	90980-11156	I		

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

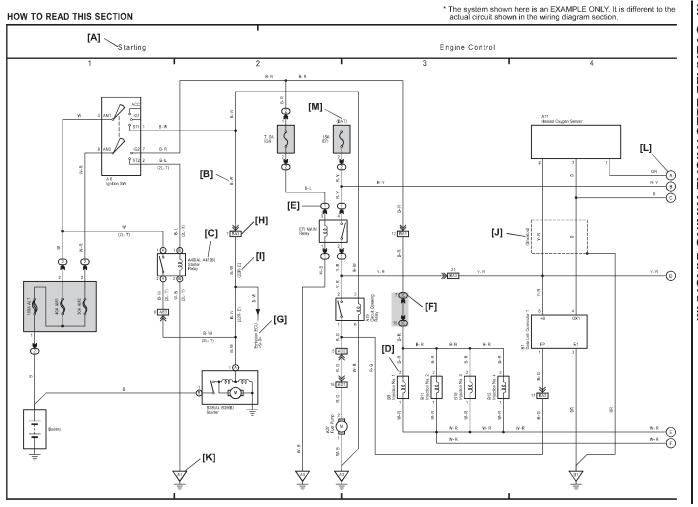
Code	Part Name	Part Number	Code	Part Name	Part Number
	Camshaft Timing Oil Control Valve (LH		E27	Front Console Illumination	90980–11918
B43	Exhaust Side)	90980–11162	E28	Front Wiper Deicer SW	90980–12551
B44	Camshaft Timing Oil Control Valve (LH Intake Side)	30300-11102	E29	Seat Heater SW	90980–11989
B45	VVT Sensor (Bank 2 Intake Side)	90980-12353	E30	Power Outlet Socket (Front)	90980-12498
B46	Crankshaft Position Sensor	90980-12611	E31	Downhill Assist Control SW	82824–21030
B47	A/C Compressor	90980-11016	E33	A/C Thermistor	90980–11918
B48	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178	E35	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–10794
B49	Ignition Coil (No.5)	90980–11885	E36	A/C Amplifier	90980-12555
B50	Noise Filter (Ignition RH)	90980–10843	E37	A/C Amplifier	90980–12557
B51	Fuel Injector (No.5)		E39	Shift Lock Control ECU	00000 12551
B52	Fuel Injector (No.3)	90980–11875	E40	Transmission Control SW	90980–12551
B53	Fuel Injector (No.1)		E41	Parking Brake SW	90980–10871
B54	VVT Sensor (Bank 1 Exhaust Side)	90980–12353	E42	Outer Mirror SW	90980–11657
B55	Ignition Coil (No.3)		E43	Power Outlet Socket (Front)	90980–12498
B56	Ignition Coil (No.1)	90980–11885	E44	Stereo Jack Adapter	82824–21030
D.E.7	Camshaft Timing Oil Control Valve (RH		E45	Airbag Sensor Assembly Center	90980–12391
B57	Exhaust Side)	90980–11162	E46	Transponder Key ECU	90980-12423
B58	VSV (ACIS)		E47	Radio Receiver Assembly	90980–10997
B59	VVT Sensor (Bank 1 Intake Side)	90980-12353	E48	Radio Receiver Assembly	90980–10996
B60	Camshaft Timing Oil Control Valve (RH	90980–11162	E49	Radio Receiver Assembly	90980-12460
04	Intake Side)	00000 00500	E50	4WD Control SW	90980–12366
C1	Starter	90980-09506	E51	Auto LSD SW	90980–12558
E1	Main SW	90980–12558	E53	Blower Motor	90980–11667
E2	Light Control Rheostat	90980-12550	E54	Blower Motor	90980–11579
E3	Ignition SW	90980-11615	E55	Blower Resistor	90980–11136
E4	Ignition Key Cylinder Lamp	90980-11148	E56	Tire Pressure Warning ECU	90980–12553
E5	Transponder Key Amplifier	90980-12092	E57	4WD Control ECU	90980–12422
E6 E7	Unlock Warning SW Spiral Cable	90980-12063	E58	Option Connector (TVIP)	90980–10860
E8	Airbag Squib (Steering Wheel Pad)	90980–12552 90980–12160	E59	Option Connector (Bus Buffer)	90980–10908
E9	Windshield Wiper SW Assembly	90980-12160	E60	A/T Shift Lever Illumination	90980–12063
E10	Windshield Wiper SW Assembly Windshield Wiper SW Assembly	90980-12359	E61	Damper Servo Motor (Air Inlet)	90980–11909
E10	Steering Sensor	90980-12359	E62	Radio Receiver Assembly	90980–12038
E12	Headlamp Dimmer SW Assembly	90980-12162	E64	Radio Receiver Assembly	90980–12552
E13	Data Link Connector 3	90980-12400	E65	Short Connector	90980–11918
E15	Main Body ECU	90980-12561	E66	Short Connector	90980–11917
E16	Main Body ECU	90980-12329	E67	Junction Connector	90980–10803
E17	Main Body ECU	90980-12329	E68	Junction Connector	_
E18	Power Steering ECU	90980-12614	E69	Junction Connector	90980–11915
E19	Combination Meter	90980-12514	E70	Junction Connector	
E20	Hazard Warning Signal SW	82824–21030	E71	Diode (Rear Wiper)	90980–10962
E21	A/C Room Temp. Sensor	90980-11918	E72	Diode (Inverter)	90980–11071
E21	Clock	90980-11918	E73	Junction Connector	90980–11398
E23	Integration Control and Panel Assembly	90980-11923	E74	Junction Connector	30000 11000
E24	Integration Control and Panel Assembly	90980-11911	E75	Diode (Heater)	90980–10962
E25	Air Vent Mode Control SW	90980-10993	E76	Radio Receiver Assembly	90980–12423
LZ0	All Veril Mode Corillol 344	30300-12000	F1	A/C Solar Sensor	90980-11987

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
G1	Speaker (Front Door RH)	90980–10935	L1	Occupant Classification ECU	90980–12356
G2	Power Window Regulator Motor (Front RH)	90980–10797	L2	Front Seat Inner Belt (Front Passenger's Side)	90980–10942
G3	Power Window SW (Front Passenger's Side)	90980–10789	L3	Seat Heater (RH)	90980–10797
G4	Outer Rear View Mirror (RH)	90980–12059	L5	Video Terminal	90980–12551
	Door Lock Assembly (Front Passenger's		L7	Airbag Sensor Assembly Center	90980–12390
G5	Side)	90980–12226	L8	Door Courtesy SW (Front RH)	90980–10871
G6	Door Lock Control SW (Front Passenger's Side)	90980-11950	L9	Pretensioner (RH)	90980-12253
G7	Tweeter (Front RH)	90980–10860	L10	Side Airbag Sensor (Front RH)	90980-12225
G8	Tweeter (Front RH)	90980–10000	L11	Door Courtesy SW (Rear RH)	90980–10871
H1	Speaker (Front Door LH)	90980–10935	L12	Side Airbag Sensor (Rear RH)	90980-12352
H2	Power Window SW (Driver's Side)	90980–12122	L13	Stereo Component Amplifier	90980-12554
H3	Outer Rear View Mirror (LH)	90980–12059	L14	Stereo Component Amplifier	90980-10803
H4	Power Window Regulator Motor (Front LH)	90980–12328	L15	Stereo Component Amplifier	90980-10801
H5	Door Lock Assembly (Driver's Side)	90980–12226	L16	Rear Seat Entertainment Display	90980–12556
H6	Tweeter (Front LH)	90980–10860	L17	Curtain Shield Airbag Squib (RH)	90980–12575
H7	Tweeter (Front LH)	90980–12304	L18	Door Control Receiver	90980–12366
l1	Power Window SW (Rear RH)	90980–10789	L19	Curtain Shield Airbag Squib (RH)	90980–12575
12	Speaker (Rear RH)	90980–10935	L20	Tire Pressure Warning Antenna and Receiver	90980–11909
13	Power Window Regulator Motor (Rear RH)	90980-10797	L21	Junction Connector	
14	Door Lock Assembly (Rear RH)	90980–12226	L22	Junction Connector	90980–11398
J1	Power Window SW (Rear LH)	90980–10789	-	Power Seat Motor (Driver's Seat Slide	
J2	Speaker (Rear LH)	90980–10935	N1	Control)	
J3	Power Window Regulator Motor (Rear LH)	90980–10797	N2	Power Seat Motor (Driver's Seat Lifter Control)	
J4	Door Lock Assembly (Rear LH)	90980–12226		Power Seat Motor (Driver's Seat Front	
K1	Airbag Sensor Assembly Center	90980–12392	N3	Vertical Control)	90980–10825
K3	Power Outlet Socket (115V)	90980–10601	N4	Power Seat Motor (Driver's Seat Reclining	1
K4	Front Seat Inner Belt (Driver's Side)	90980–10942		Control)	
K6	Yaw Rate Sensor	90980–11904	N5	Power Seat Motor (Driver's Seat Lumbar Support Control)	
K7	Door Courtesy SW (Front LH)	90980–10871	N6	Power Seat SW (Driver's Seat)	90980–10997
K8	Pretensioner (LH)	90980–12253	N7	Power Seat SW (Lumbar Support)	90980–10789
K9	Side Airbag Sensor (Front LH)	90980-12225	N8	Junction Connector	90980–11661
K10	Door Courtesy SW (Rear LH) Side Airbag Sensor (Rear LH)	90980–10871 90980–12352	N9	Seat Heater (LH)	90980–10797
K11	Rear Combination Lamp (RH)		01	4WD Linear Solenoid	90980–11156
K12	Curtain Shield Airbag Squib (LH)	90980-10797	P1	Vanity Lamp SW (RH)	90980–12322
K13	Rear Combination Lamp (LH)	90980–12575 90980–10797	P2	Vanity Lamp (RH)	
K14	Voltage Inverter	90980-10797	P3	Vanity Lamp (LH)	1 -
K16	Diode (Room Lamp)	90980–10799	P4	Vanity Lamp SW (LH)	90980-12322
K17	Power Outlet Socket (Rear)	90980–10902	P5	Overhead J/B	90980-12559
K18	Door Courtesy SW (Back Door)	90980–10871	P6	Sliding Roof Control ECU	90980–10997
K19	Junction Connector	90980–10803	P7	Room Lamp (Front)	-
K20	Junction Connector	90980–11542	Q1	Center Stop Lamp	90980–11060
K21	Junction Connector	90980–11661	Q2	Rear Window Defogger	90980–10916
K22	Speed Sensor (Rear LH)		Q3	Room Lamp (Rear)	90980–10860
K23	Speed Sensor (Rear RH)	90980–10859	Q4	Rear Wiper Motor	90980–11296

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

0- 1-	Deat News	Don't Niverbook	0 - 1 -	Deat News	Deat November
Code	Part Name	Part Number	Code	Part Name	Part Number
Q5	Speaker (Woofer)	90980–11013	a2	Occupant Classification Sensor (Front LH)	
Q6	License Plate Lamp	90980-11003	а3	Occupant Classification Sensor (Rear LH)	90980–12353
Q7	Back Door Lock Assembly	90980-12226	a4	Occupant Classification Sensor (Front RH)	90960-12333
R1	Knock Control Sensor (Bank 2)	90980-11875	а5	Occupant Classification Sensor (Rear RH)]
R2	Knock Control Sensor (Bank 1)	90960-11675	b1	Foot Lamp (Front LH)	00000 11010
S1	Fuel Suction Pump	90980-11077	b2	Foot Lamp (Front RH)	90980–11918
S2	Fuel Sender Gage	90980-11140	c1	A/C Amplifier	90980-12264
S3	Canister Pump Module	90980-12380		A/C Blower Assembly	90960-12264
V1	Speed Sensor (Rear RH)	90980-12416	d1	Key Interlock Solenoid	90980-12063
W1	Speed Sensor (Rear LH)	90980-12416	-4	Power Steering ECU	00004 40400
X1	Side Airbag Squib (LH)	00000 40450	e1	Power Steering Torque Sensor	82824–42160
Y1	Side Airbag Squib (RH)	90980-12452	e2	Power Steering ECU	00004 40470
Z1	Airbag Squib (Front Passenger's Airbag	90980-12224	ll ez	Rotation Angle Sensor	82824–42170
	Assembly)	10000		Power Steering ECU	00004 40040
Z2	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12219	e3	Power Steering Motor	82824–42240
a1	Occupant Classification ECU	90980-12357			



[A] : System Title

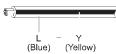
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

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





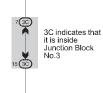
The numbering system for the overall wiring diagram is the same as above

[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

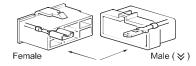
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.





[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.

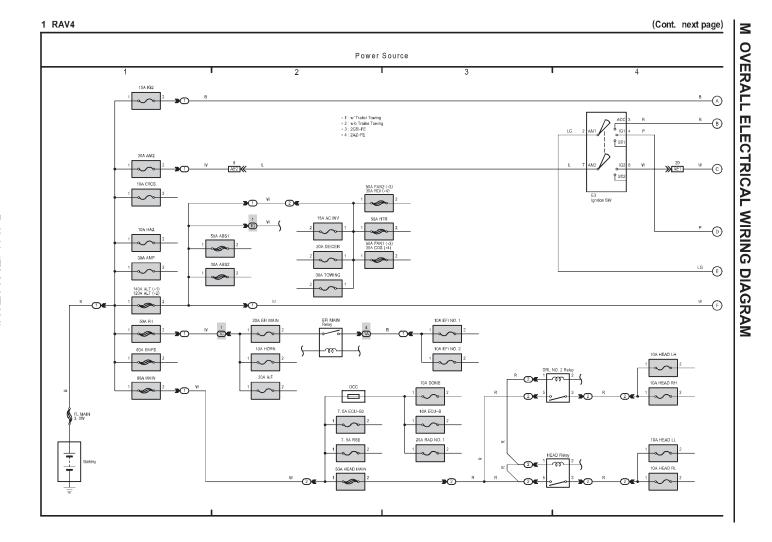
[L] : The same code occurring on the next page indicates that the wire harness is continuous.

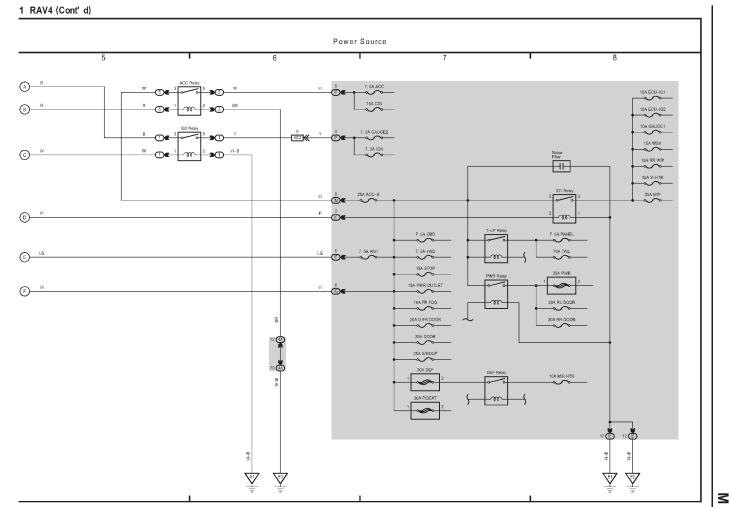
[M]: Indicates the ignition key position(s) when the power is supplied to the fuse(s).

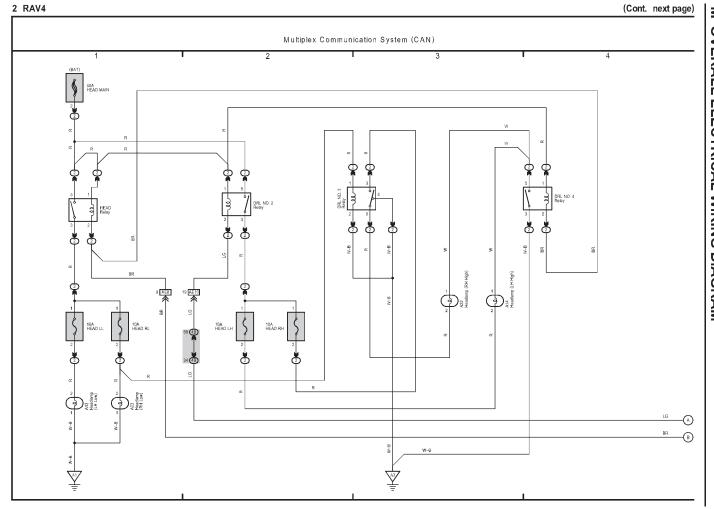
M OVERALL ELECTRICAL WIRING DIAGRAM

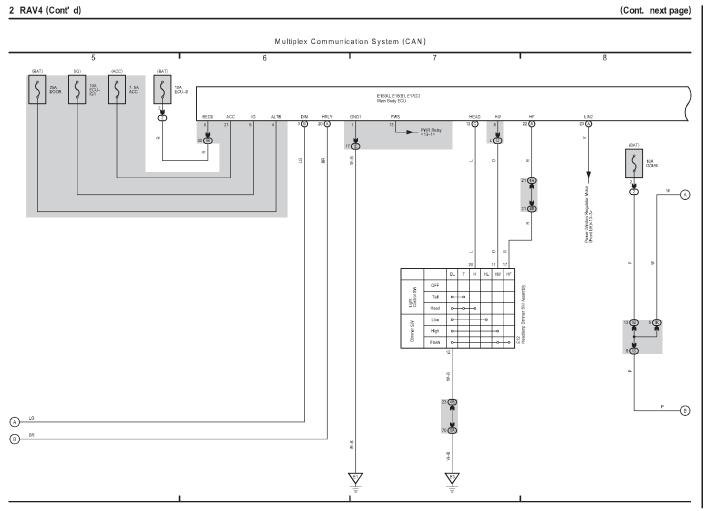
372 **SYSTEM INDEX**

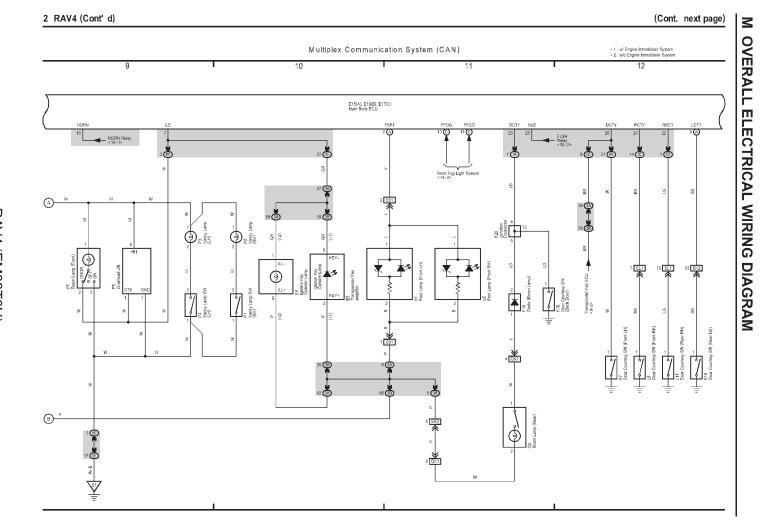
Audio System (Except JBL)

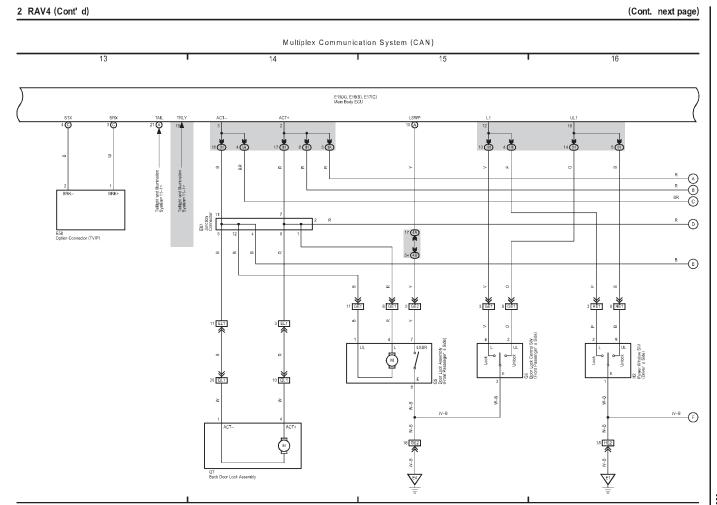


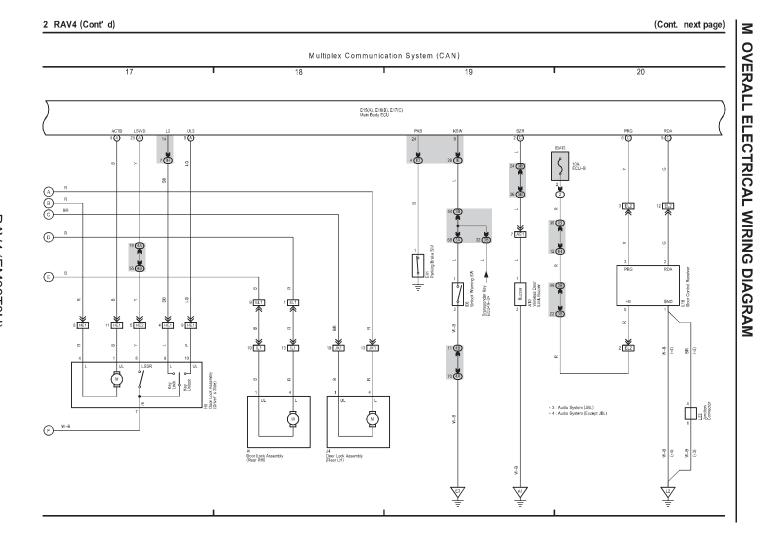


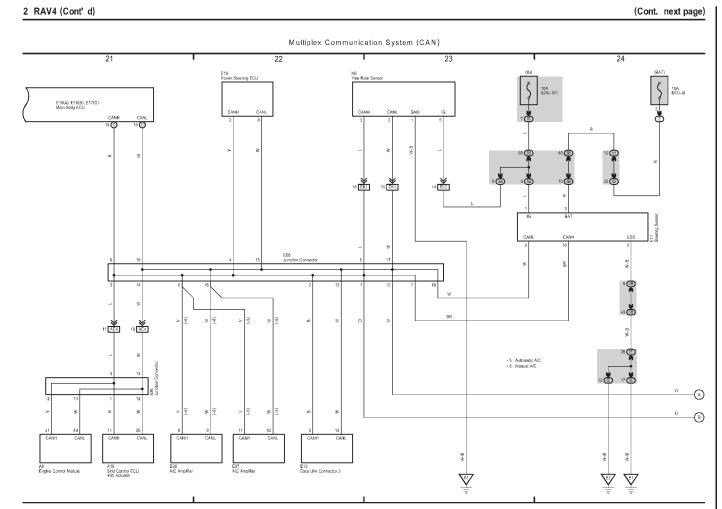


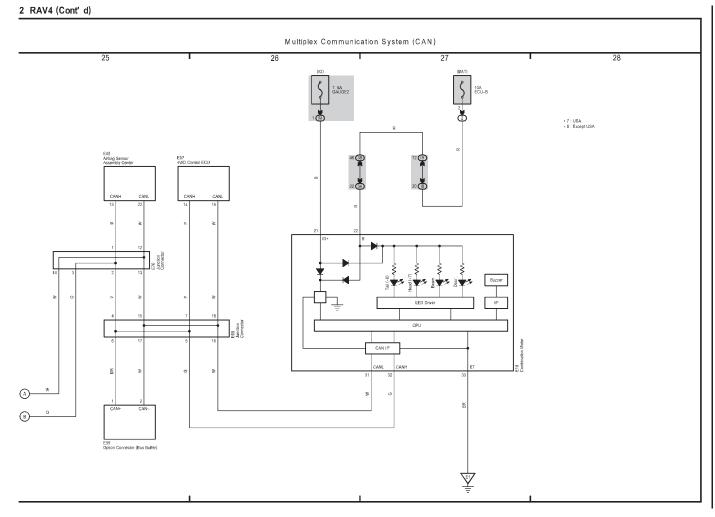


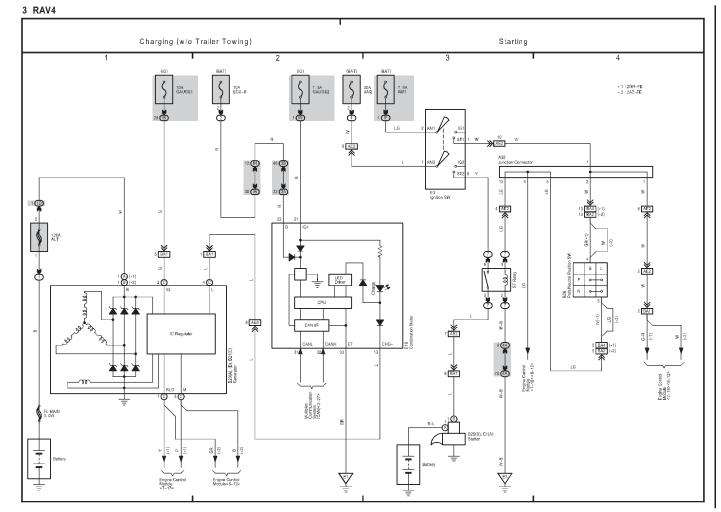




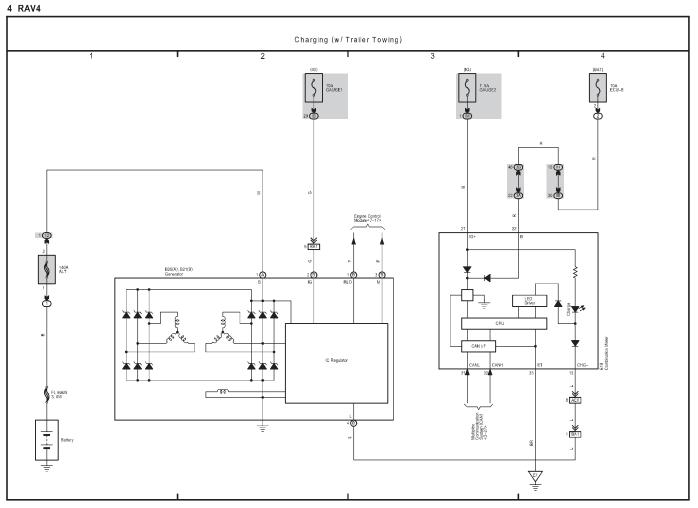


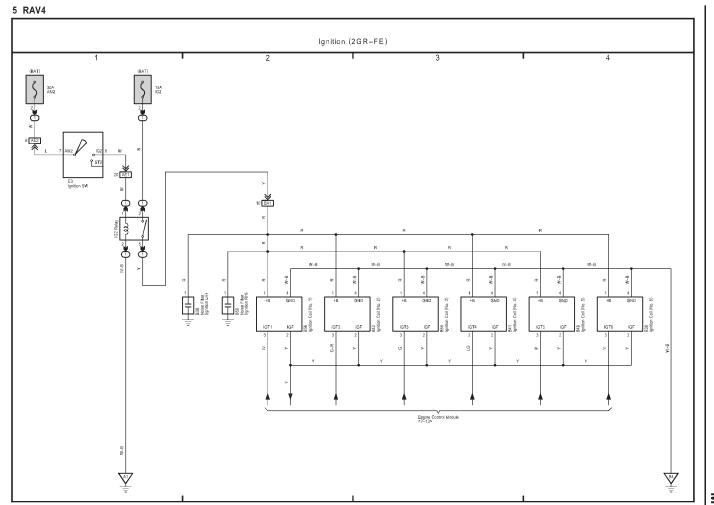


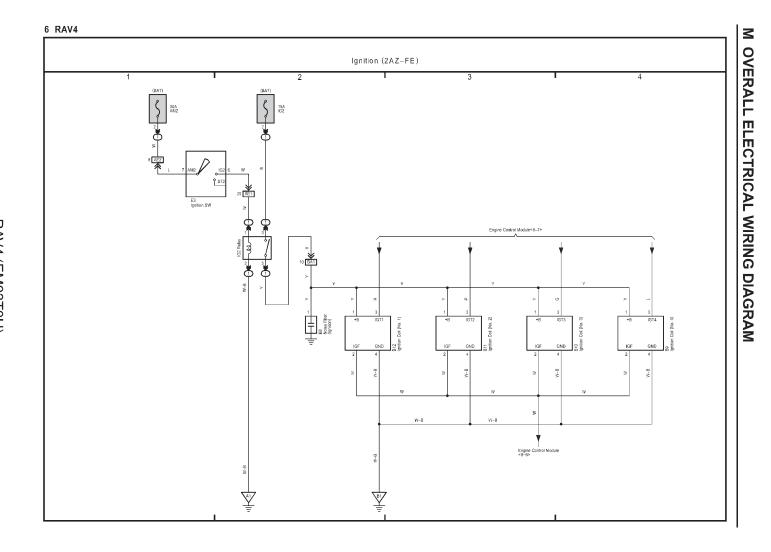


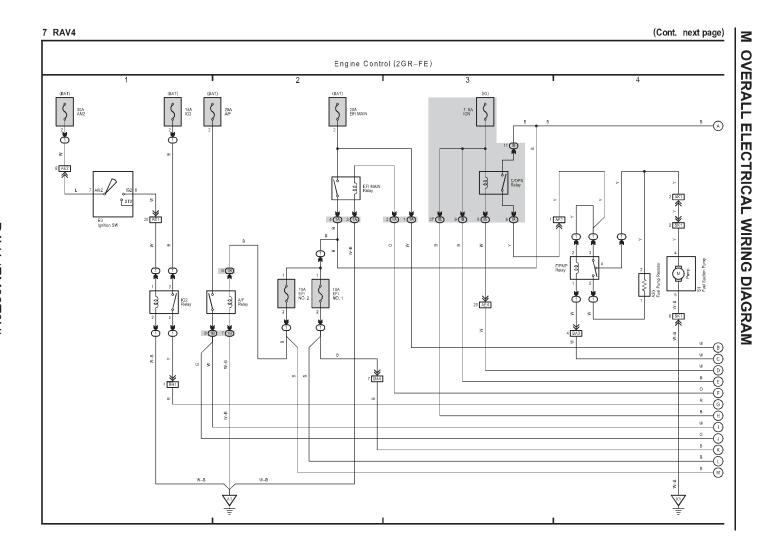


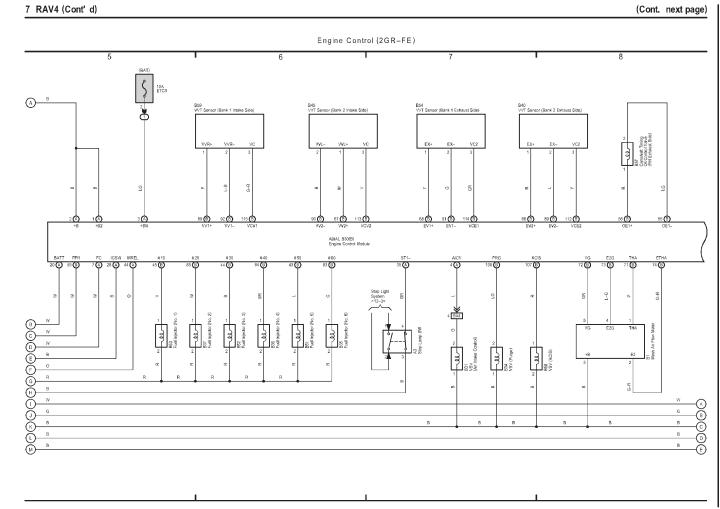


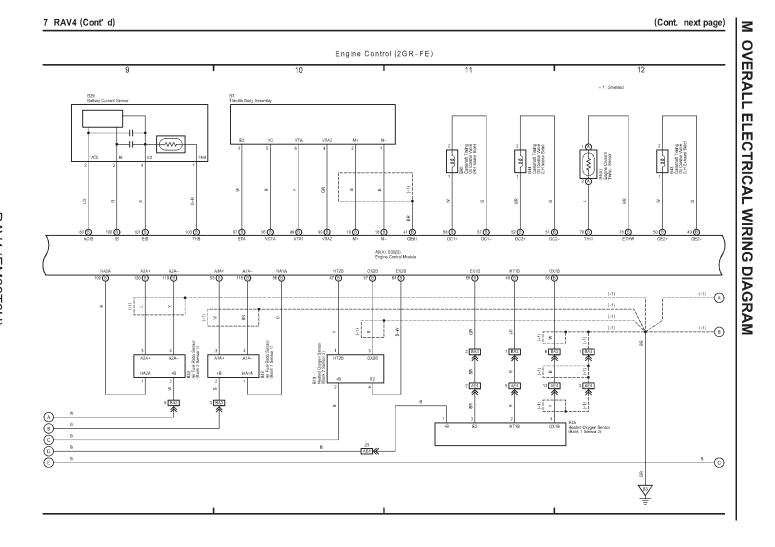


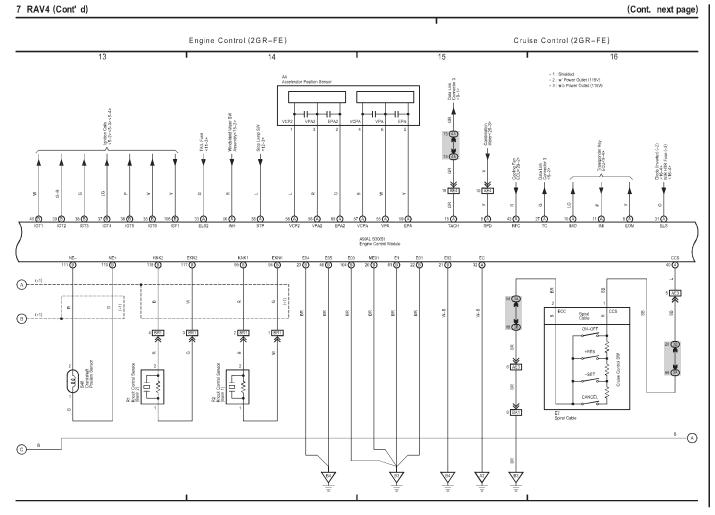


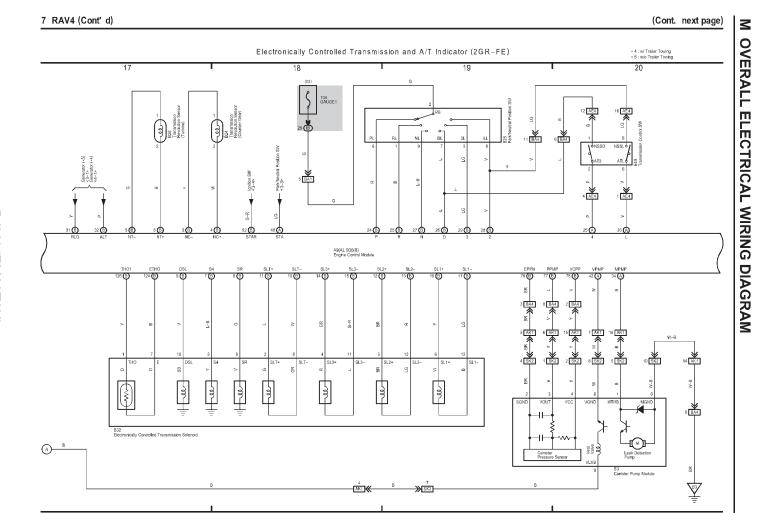


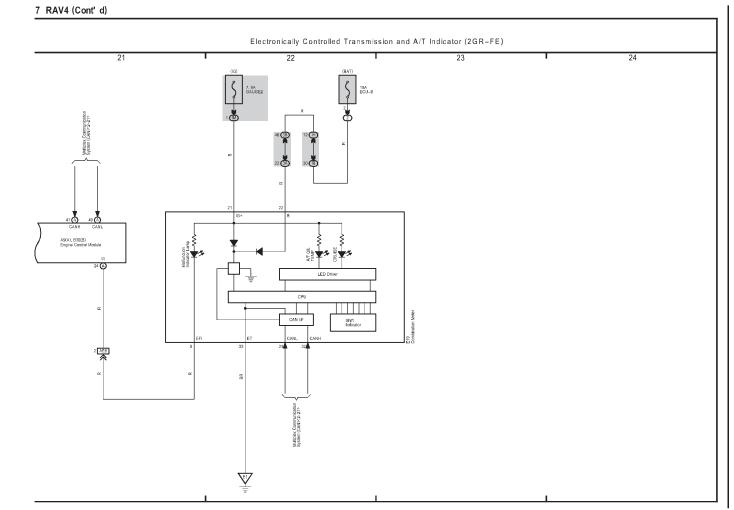


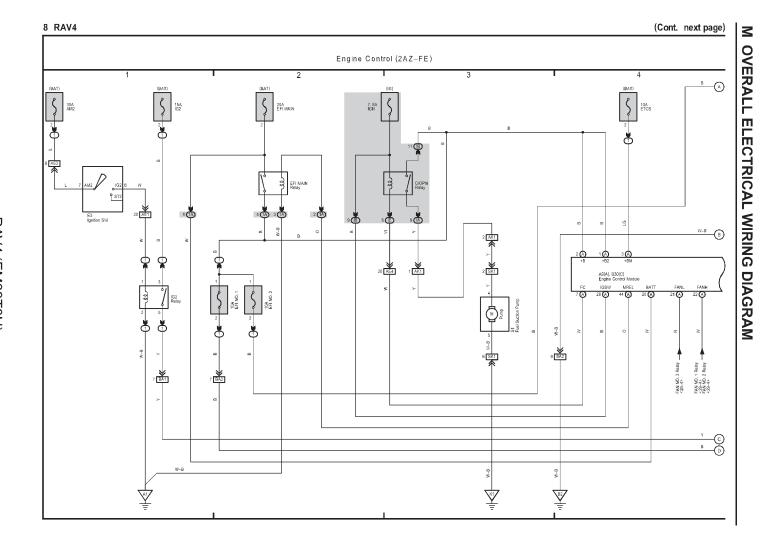


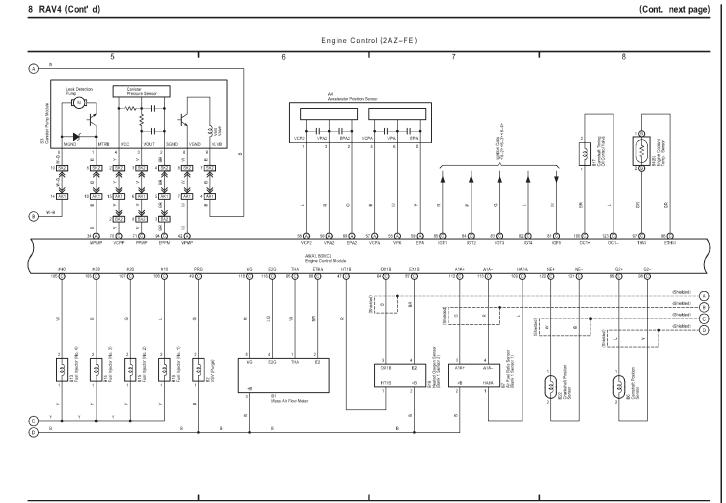


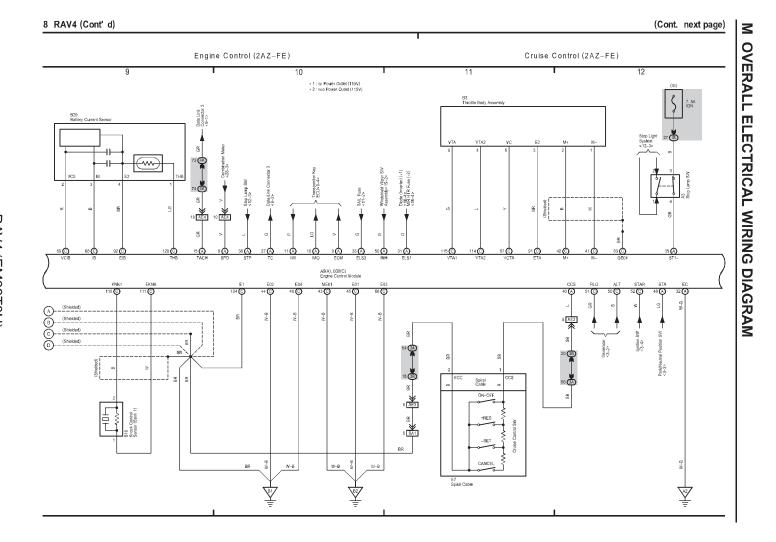


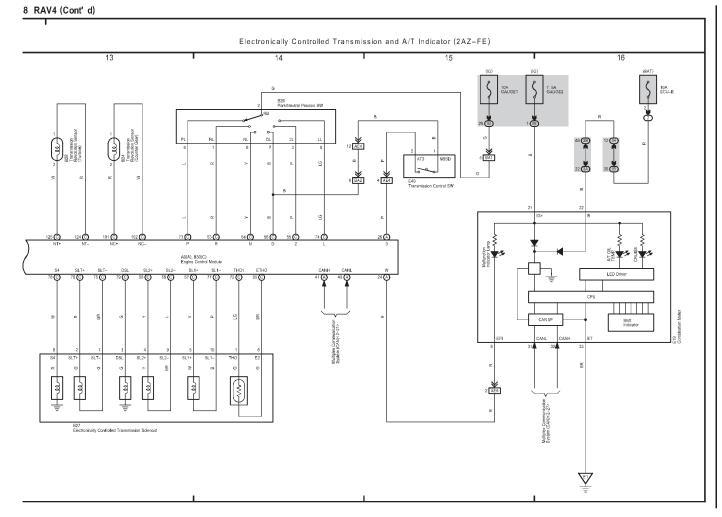




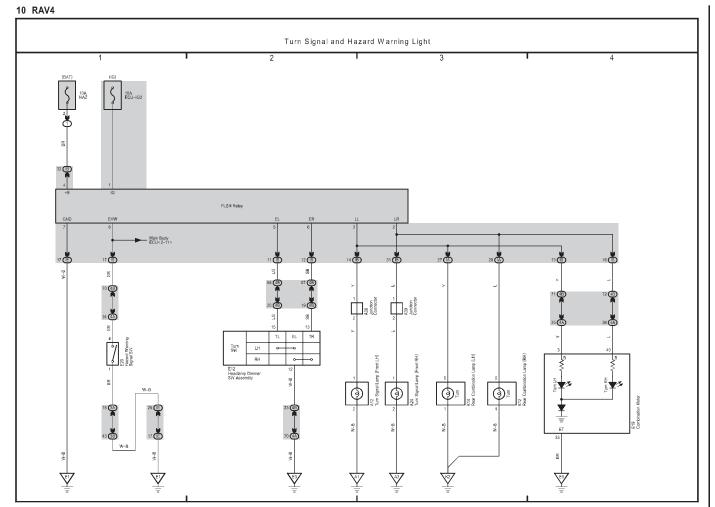


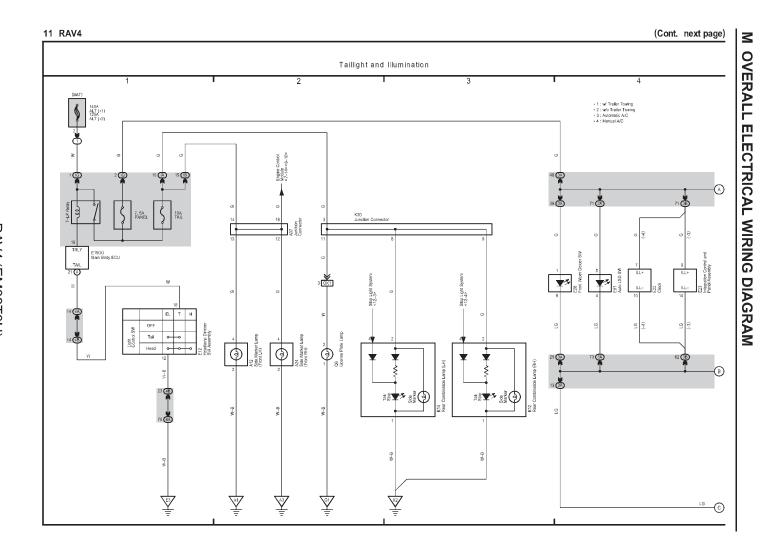


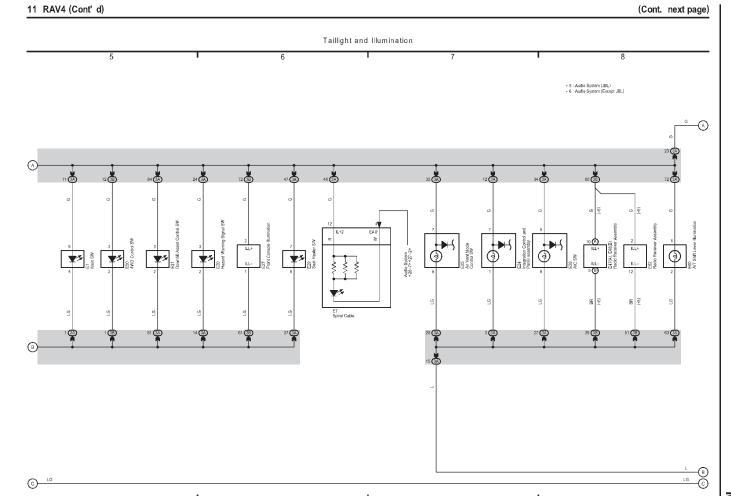




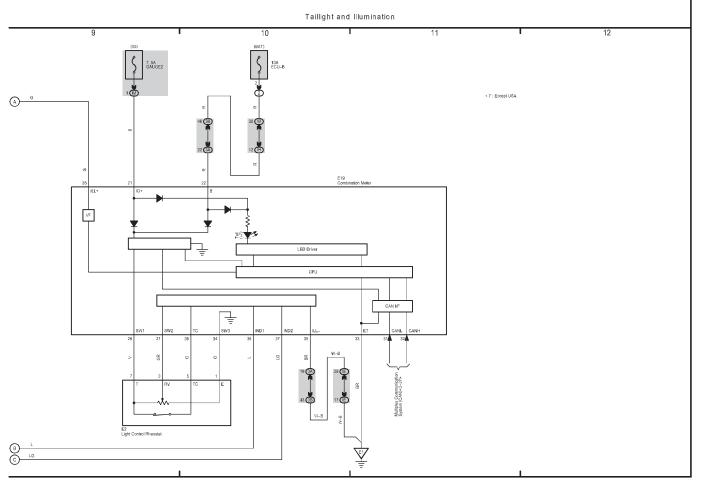
M OVERALL ELECTRICAL WIRING DIAGRAM



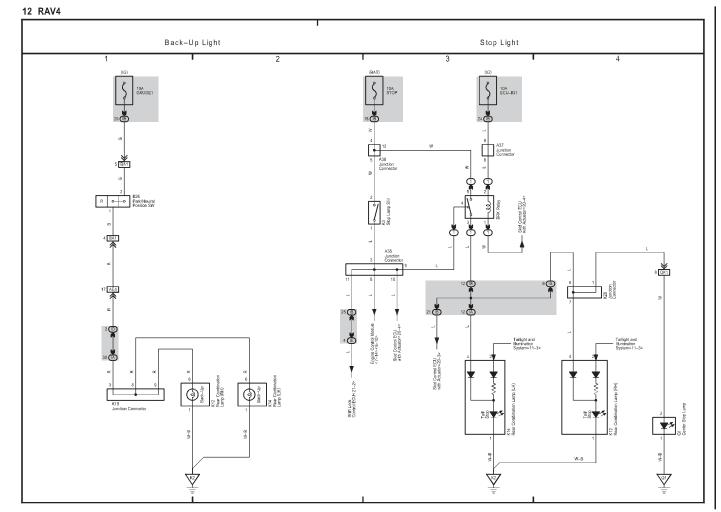


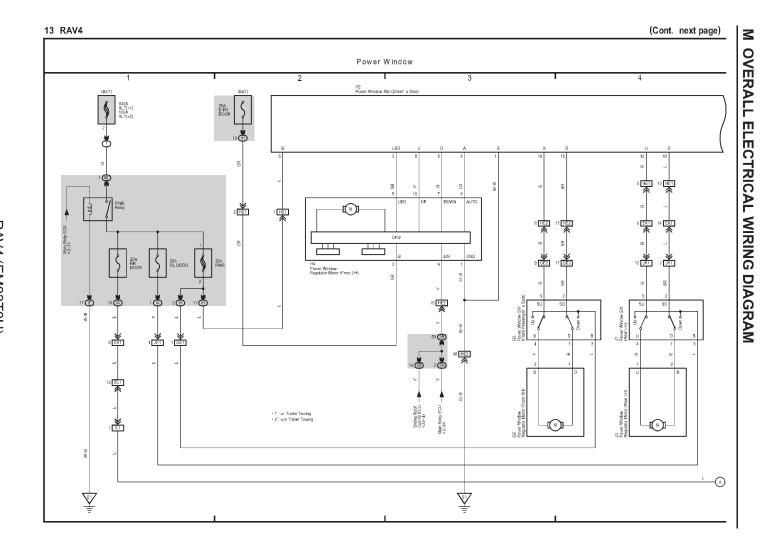




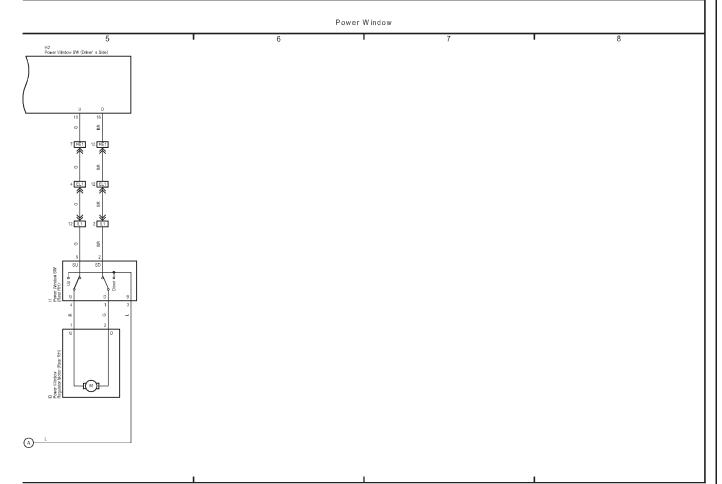


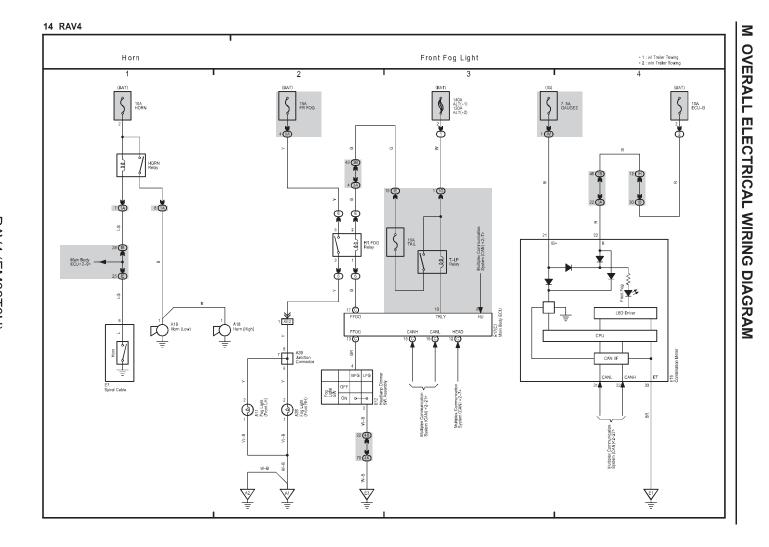
M OVERALL ELECTRICAL WIRING DIAGRAM

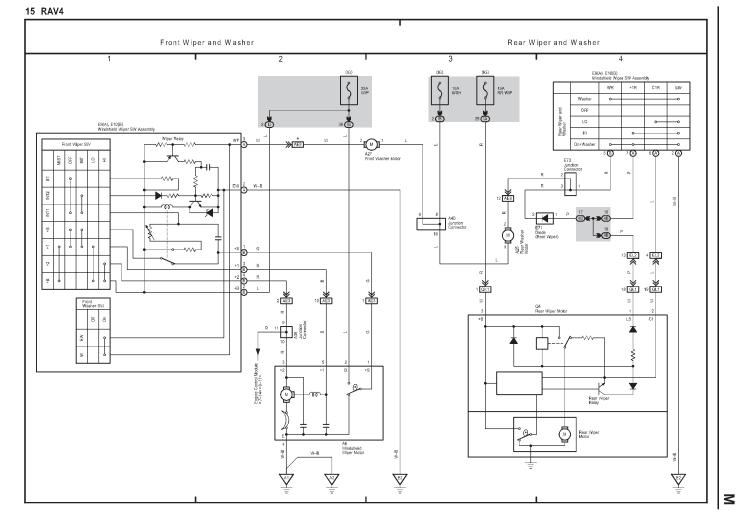


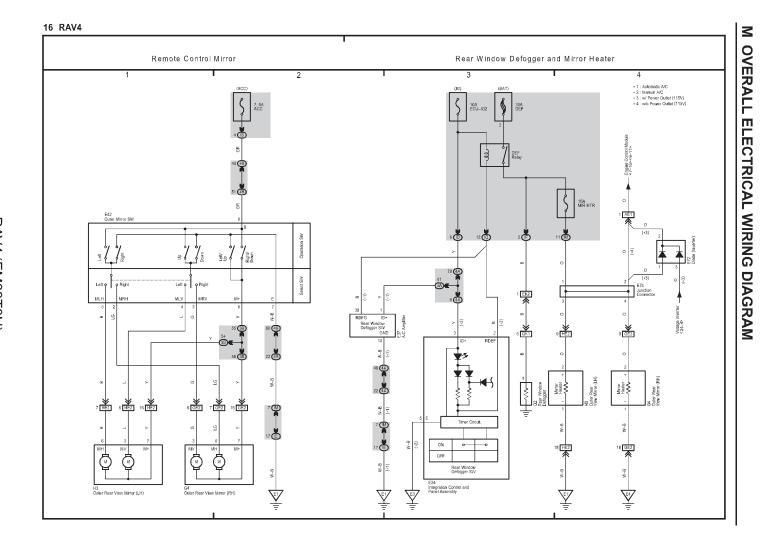


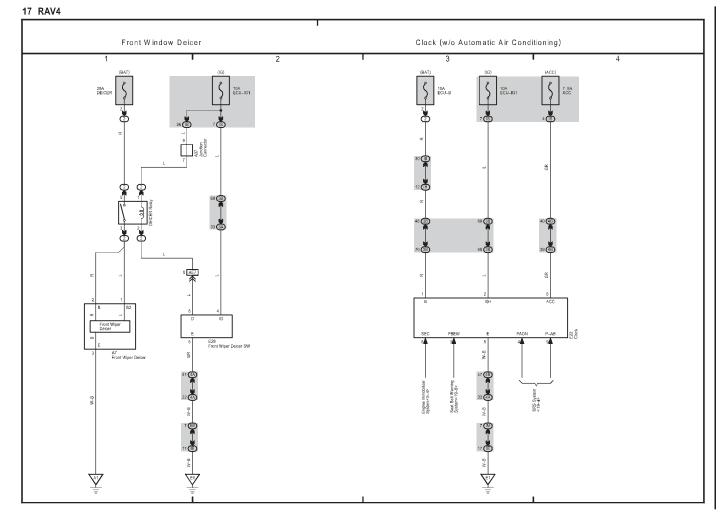
13 RAV4 (Cont' d)

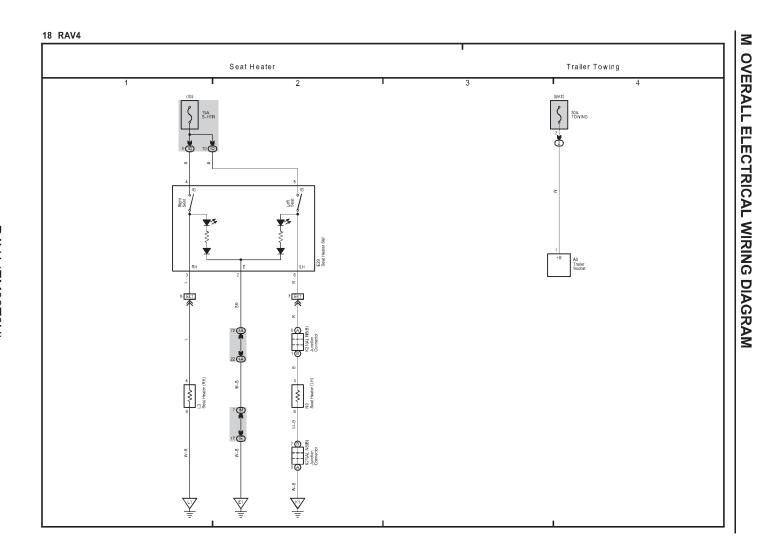


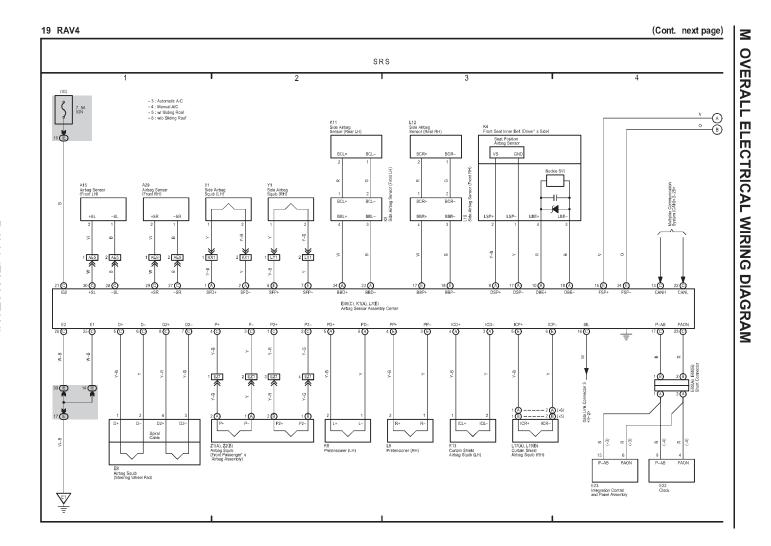


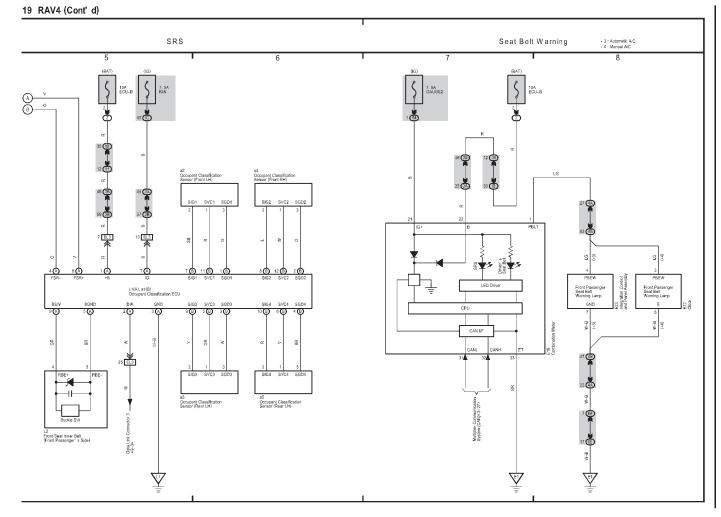


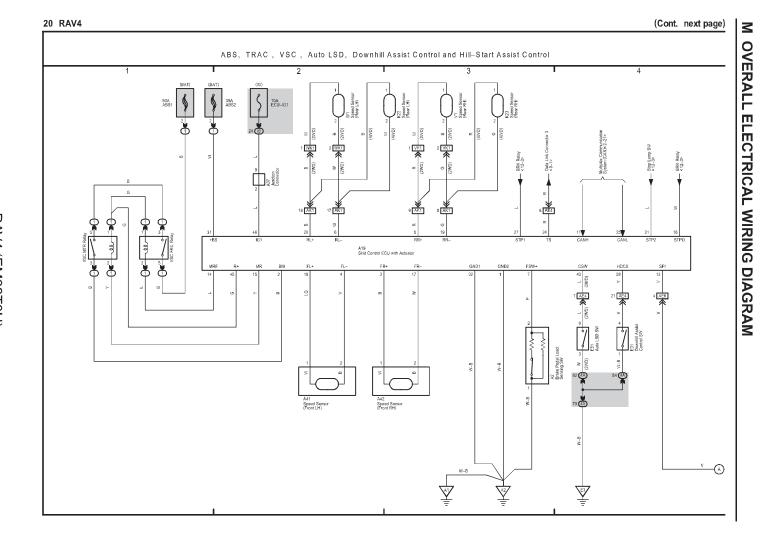












20 RAV4 (Cont' d)

