FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2005 CELICA.

Applicable models: ZZT230, 231 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
▲2005 CELICA Repair Manual	RM1131U
▲2005 TOYOTA New Car Features	NCF275U

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

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NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

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2005 CELICA
ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

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

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

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

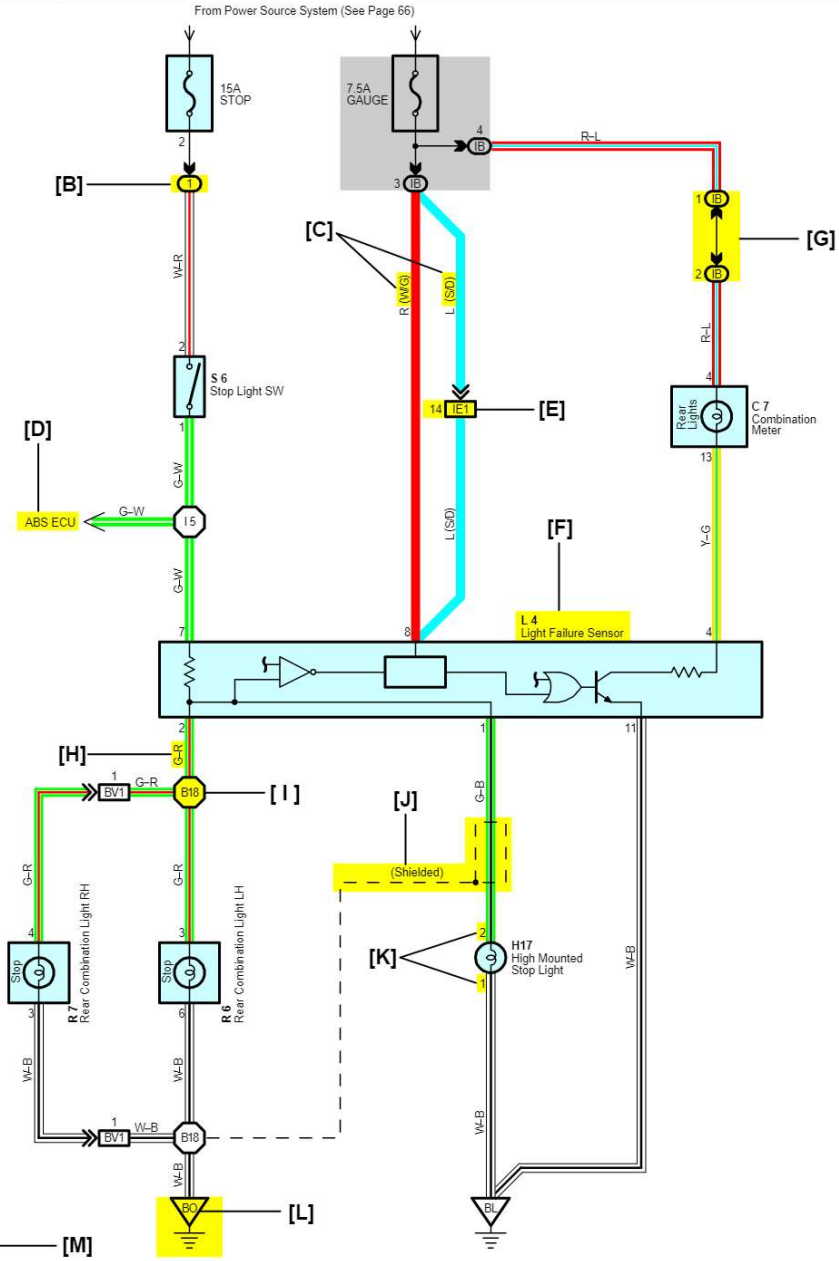
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand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

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, 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.

[A]

Stop Light

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



[A] : System Title

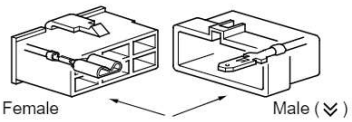
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

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 wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⩔).
Outside numerals are pin numbers.



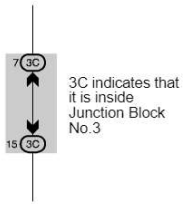
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

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

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

Example:



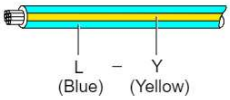
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

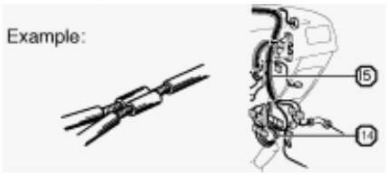
B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

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

Example: L - Y



[I] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).



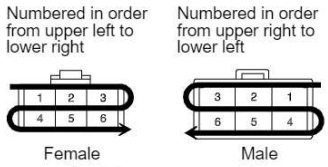
The Location of splice Point I 5 is indicated by the shaded section.

[J] : Indicates a shielded cable.



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

Example:



[L] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[M] : Page No.

[N] **System Outline**

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light 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 light 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.

[O] **Service Hints**

S6 Stop Light SW
2-1 : Closed with the brake pedal depressed

L4 Light Failure Sensor
1, 2, 7-Ground : Approx. 12 volts with the stop light SW on
4, 8-Ground : Approx. 12 volts with the ignition SW at ON position
11-Ground : Always continuity

[P] **: Parts Location**

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q] **: Relay Blocks**

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

[R] **: Junction Block and Wire Harness Connector**

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

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	42	Floor Wire and Instrument Panel Wire (Left Kick Panel)
BV1	50	Luggage Room Wire and Floor Wire (Luggage Room Left)

[T] **: Ground Points**

Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
BO	50	Back Panel Center

[U] **: Splice Points**

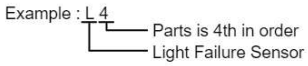
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	44	Cowl Wire	B18	50	Luggage Room Wire

[N] : Explains the system outline.

[O] : Indicates values or explains the function for reference during troubleshooting.

[P] : Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example : Part "L4" (Light Failure Sensor) is on page 36 of the manual.
* The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.



[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 "IE1" connects the floor 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 "BO" is described on page 50 of this manual and is installed on the back panel center.

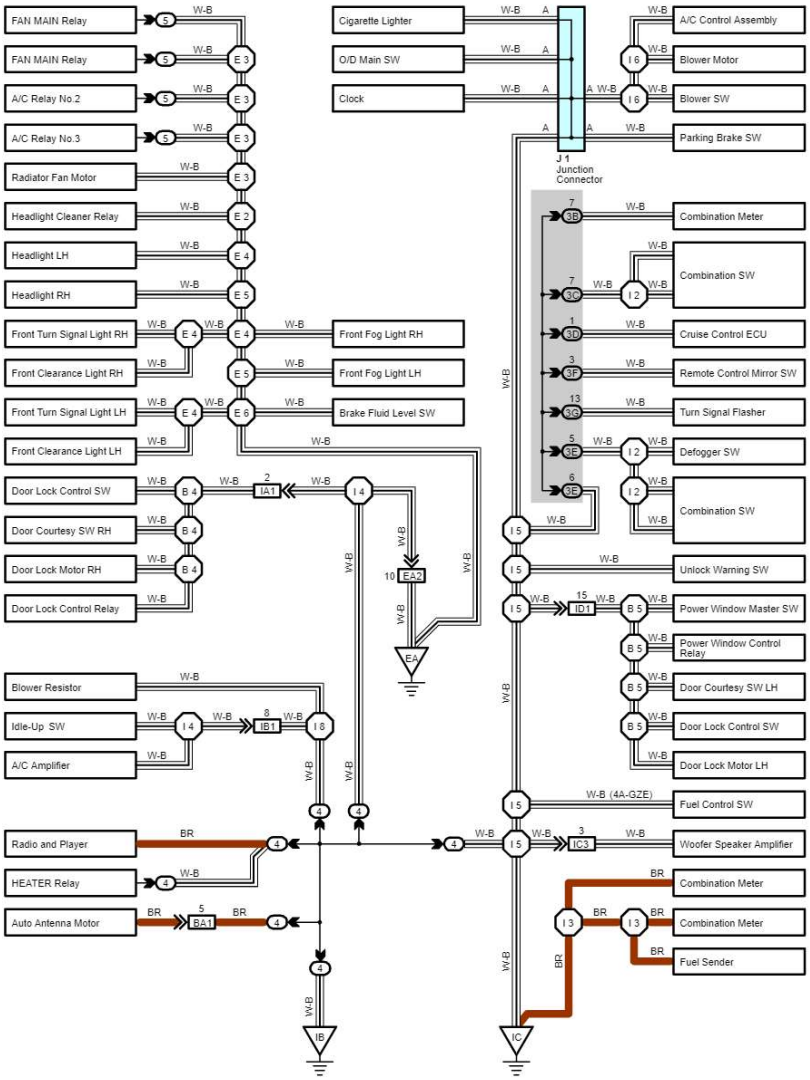
[U] : Indicates the reference page showing the position of the splice points on the vehicle.

Example : Splice point "I5" is on the Cowl Wire Harness and is described on page 44 of this manual.

B HOW TO USE THIS MANUAL

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

I GROUND POINT

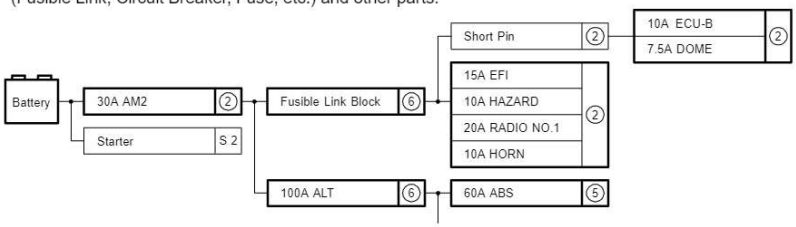


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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

J POWER SOURCE (Current Flow Chart)

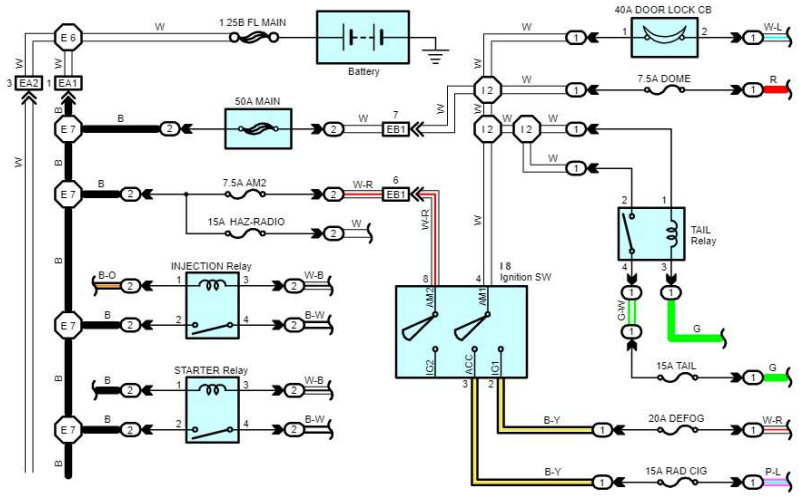
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



Engine Room R/B (See Page 20)

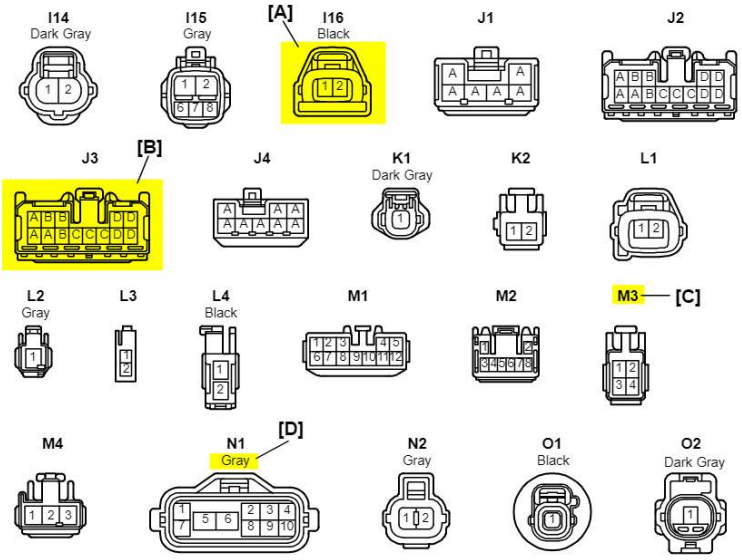
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off	214 230 112 122

Power Source



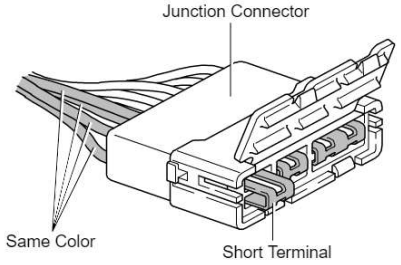
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



[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. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)
Wire harness sharing the same short terminal grouping have the same color.

[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.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070
A 2	A/C Condenser Fan Motor	90980-11237
A 3	A/C Condenser Fan Relay	90980-10940
A 4	A/C Condenser Fan Resistor	90980-10928
A 5	A/C Magnetic Clutch	90980-11271
A 6	A/T Oil Temp. Sensor	90980-11413
A 7	ABS Actuator	90980-11151
A 8	ABS Actuator	90980-11009
A 9	ABS Speed Sensor Front LH	90980-10941
A10	ABS Speed Sensor Front RH	90980-11002
A11	Airbag Sensor Front LH	90980-11856
A12	Airbag Sensor Front RH	
A13		90980-11194
		90980-11[illegible]

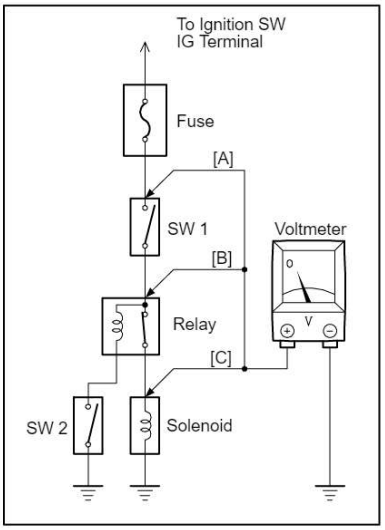
Code	Part Name	Part Number
D 4	Diode (Courtesy)	90980-11608
D 5	Diode (Interior Light)	90980-10962
D 6	Diode (Moon Roof)	90980-11608
D 7	Door Lock Control Relay	90980-10848
D 8	Door Lock Control SW LH	90980-11148
D 9	Door Lock Control SW RH	
D10	Door Courtesy SW LH	90980-11097
D11	Door Courtesy SW RH	
D12	Door Courtesy SW Front LH	90980-11156
D13	Door Courtesy SW Front RH	
D14	Door Courtesy SW Rear LH	
D15	Door Courtesy SW Rear RH	
D16	[illegible] and Unlock SW LH	90980-11170
	[illegible] RH	

[A] : Part Code

[B] : Part Name

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

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

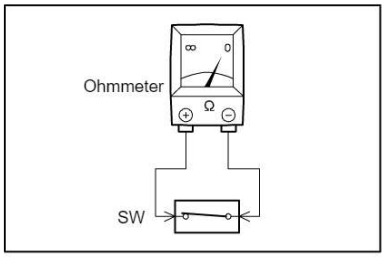


VOLTAGE CHECK

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

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

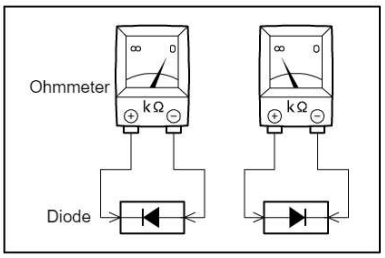
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

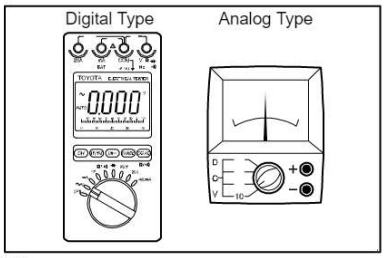
(a) Disconnect the battery terminal or wire so there is no voltage between the check points.

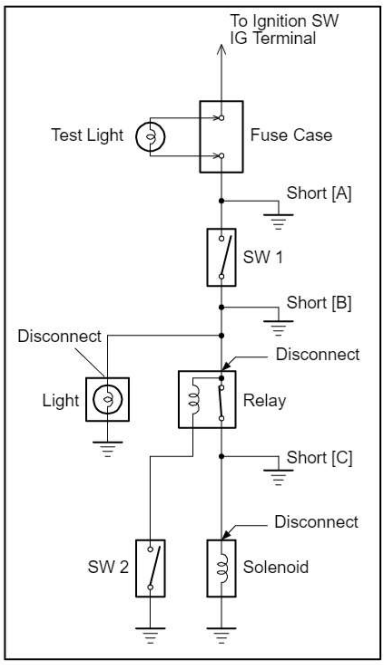
(b) Contact the two leads of an ohmmeter to each of the check points.



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

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





FINDING A SHORT CIRCUIT

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

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

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

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

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

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

CAUTION:

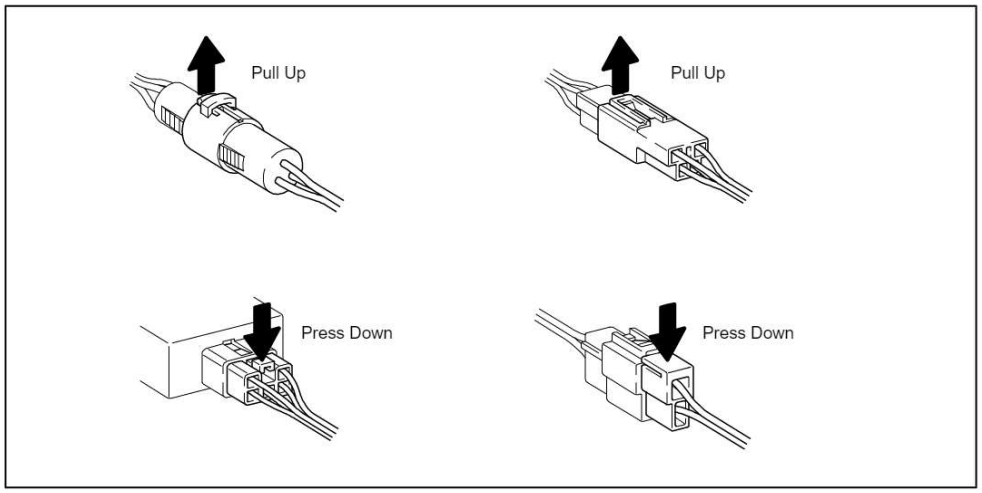
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

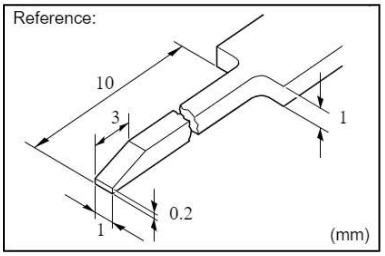
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

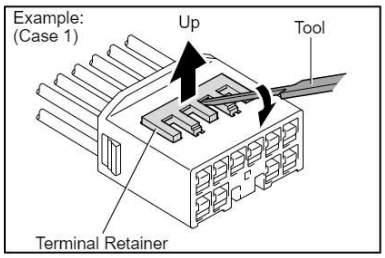
DISCONNECTION OF MALE AND FEMALE CONNECTORS

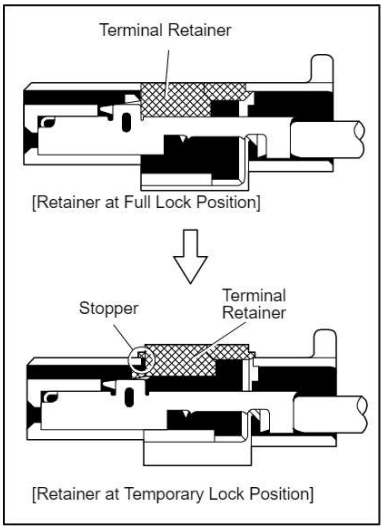
To pull apart the connectors, pull on the connector itself, not the wire harness.

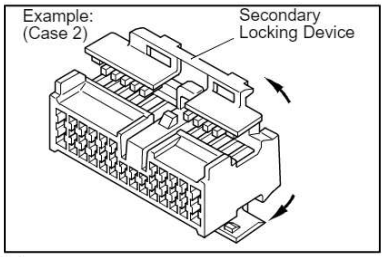
HINT : Check to see what kind of connector you are disconnecting before pulling apart.











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

1. PREPARE THE SPECIAL TOOL

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

2. DISCONNECT CONNECTOR

3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

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

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

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

   [A] For Non-Waterproof Type Connector

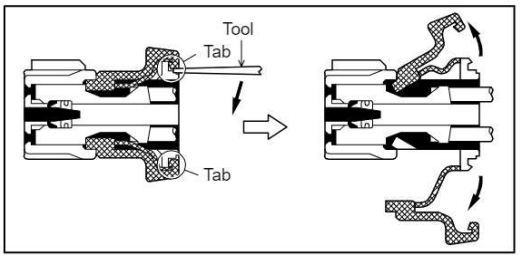
   HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

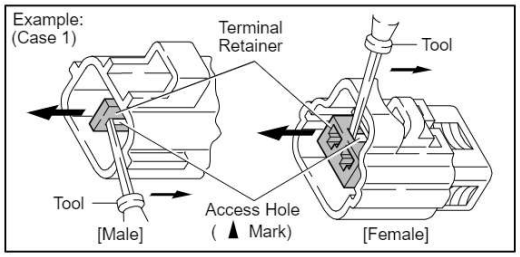
   "Case 1"

   Raise the terminal retainer up to the temporary lock position.

   "Case 2"

   Open the secondary locking device.



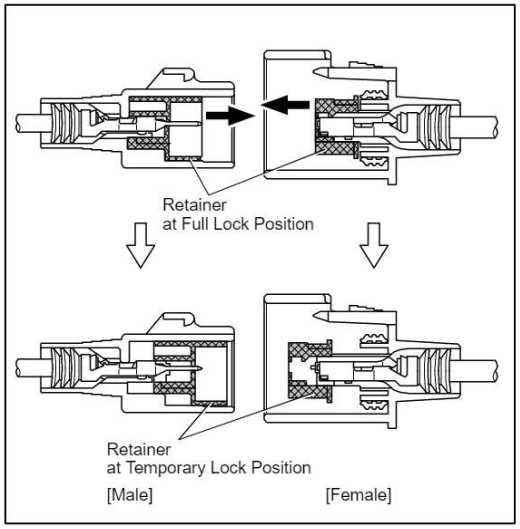


[B] For Waterproof Type Connector

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

Example:

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

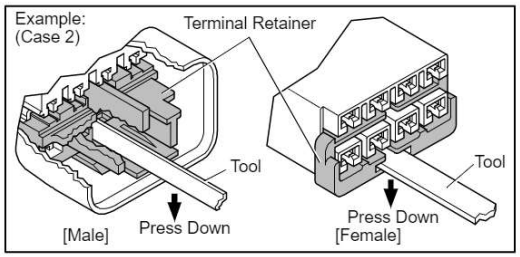


"Case 1"

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

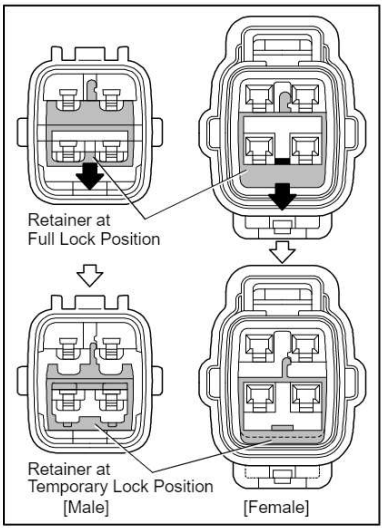
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

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

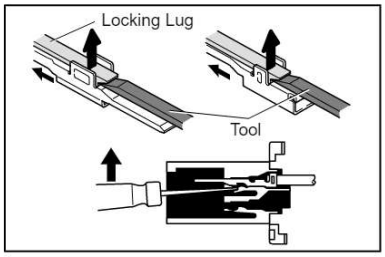


"Case 2"

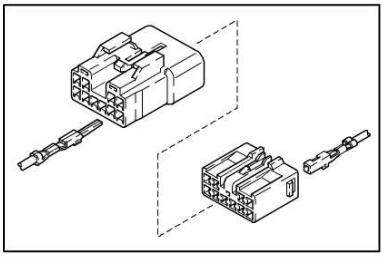
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



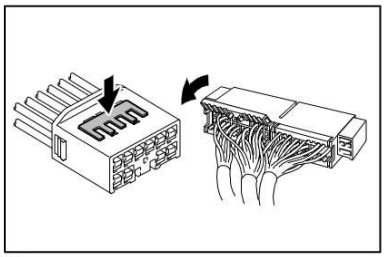
(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

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



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

5. CONNECT CONNECTOR

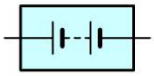
ABBREVIATIONS

The following abbreviations are used in this manual.

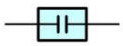
A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti-Lock Brake System
ACIS	=	Acoustic Control Induction System
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
EVAP	=	Evaporative Emission
FL	=	Fusible Link
HID	=	High Intensity Discharge
IC	=	Integrated Circuit
J/B	=	Junction Block
LH	=	Left-Hand
M/T	=	Manual Transaxle
MPX	=	Multiplex
O/D	=	Overdrive
R/B	=	Relay Block
RH	=	Right-Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
VSV	=	Vacuum Switching Valve
VVL	=	Variable Valve Lift
VVT	=	Variable Valve Timing
VVTL	=	Variable Valve Timing and Lift
w/	=	With
w/o	=	Without

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

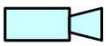
E GLOSSARY OF TERMS AND SYMBOLS



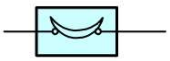
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



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



CIGARETTE LIGHTER
An electric resistance heating element.



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



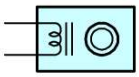
DIODE
A semiconductor which allows current flow in only one direction.



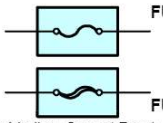
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



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



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



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

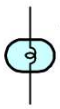
(for Medium Current Fuse)

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

(for High Current Fuse or Fusible Link)



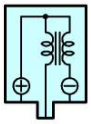
GROUND
The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.



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



HORN
An electric device which sounds a loud audible signal.



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



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



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



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



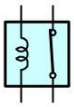
METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.



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

RELAY

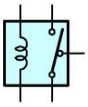
Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.



1. NORMALLY CLOSED

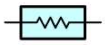


2. NORMALLY OPEN



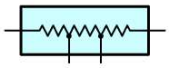
RELAY, DOUBLE THROW

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



RESISTOR

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



RESISTOR, TAPPED

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



RESISTOR, VARIABLE or RHEOSTAT

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



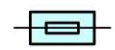
SENSOR (Thermistor)

A resistor which varies its resistance with temperature.



SENSOR, SPEED

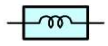
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.



(Reed Switch Type)

SHORT PIN

Used to provide an unbroken connection within a junction block.



SOLENOID

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

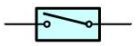
SPEAKER

An electromechanical device which creates sound waves from current flow.

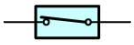


SWITCH, MANUAL

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



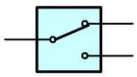
1. NORMALLY OPEN



2. NORMALLY CLOSED

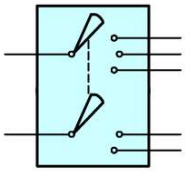
SWITCH, DOUBLE THROW

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



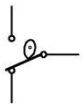
SWITCH, IGNITION

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



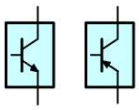
SWITCH, WIPER PARK

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



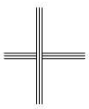
TRANSISTOR

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

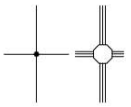


WIRES

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



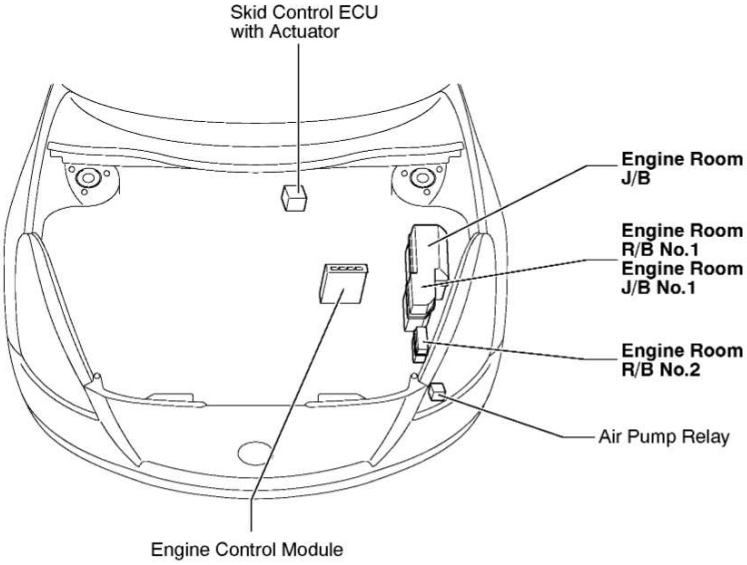
(1) NOT CONNECTED



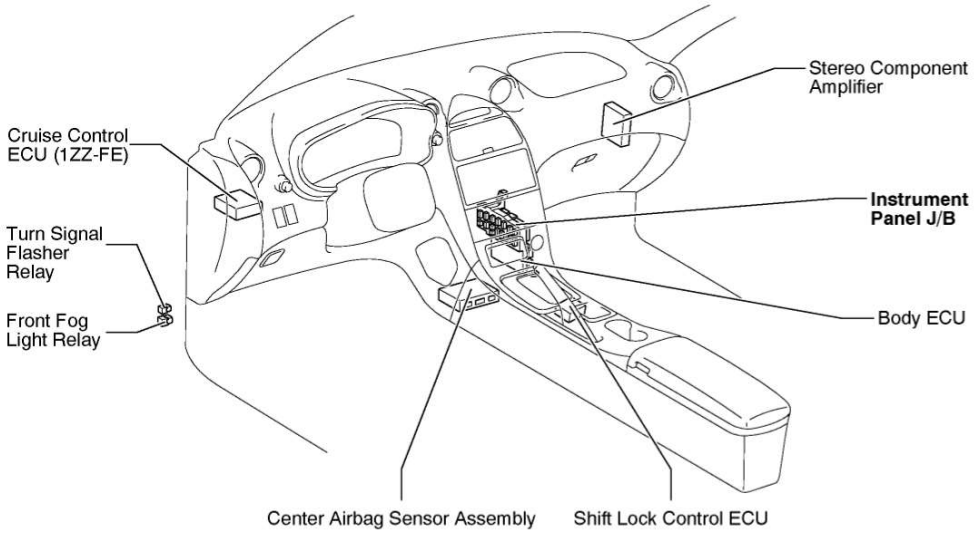
(2) SPLICED

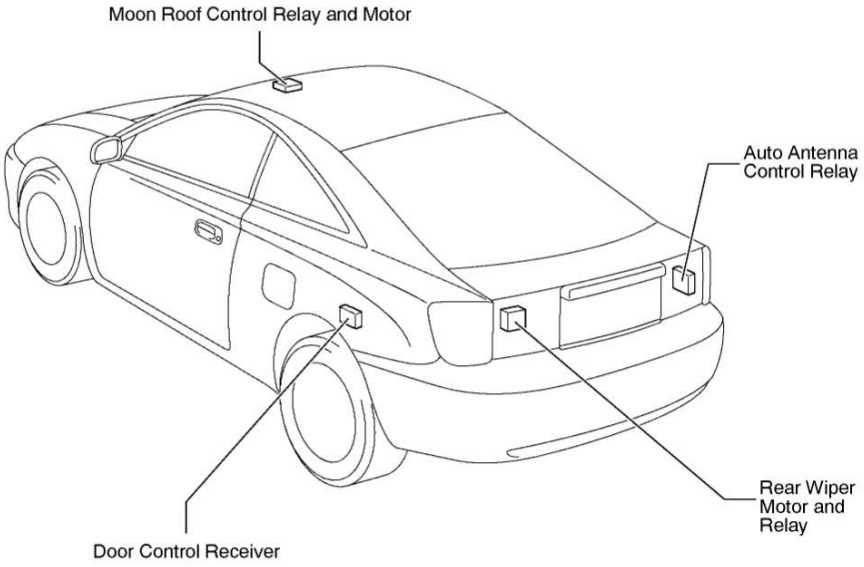
F RELAY LOCATIONS

[Engine Compartment]



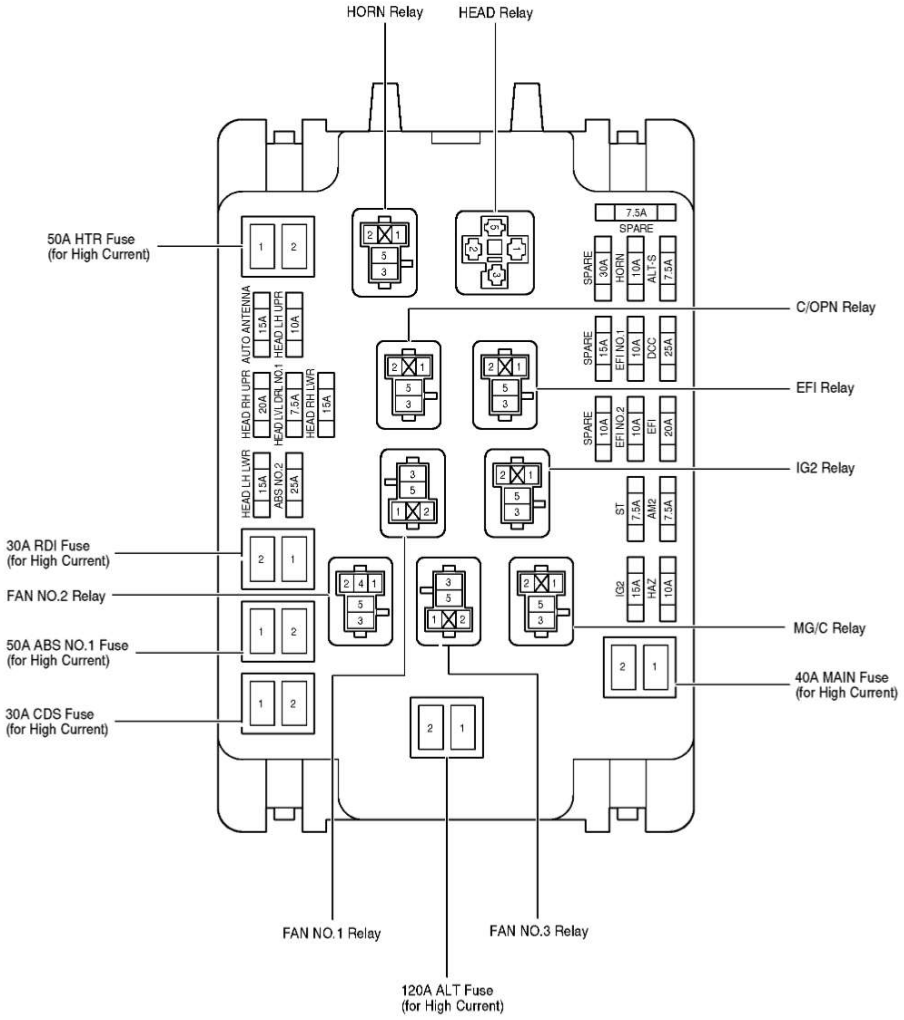
[Instrument Panel]



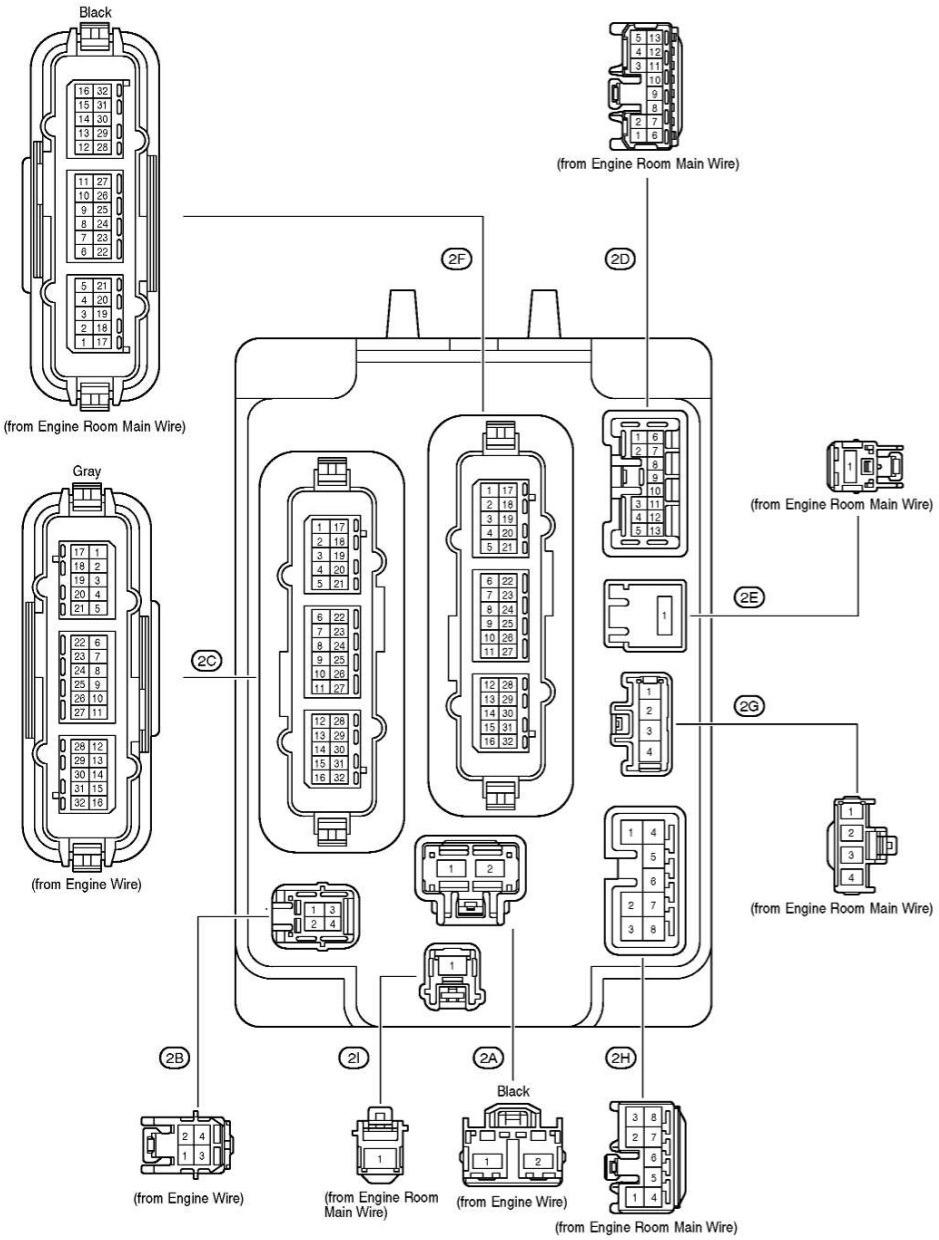

Moon Roof Control Relay and Motor
Auto Antenna Control Relay
Rear Wiper Motor and Relay
Door Control Receiver

F RELAY LOCATIONS

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

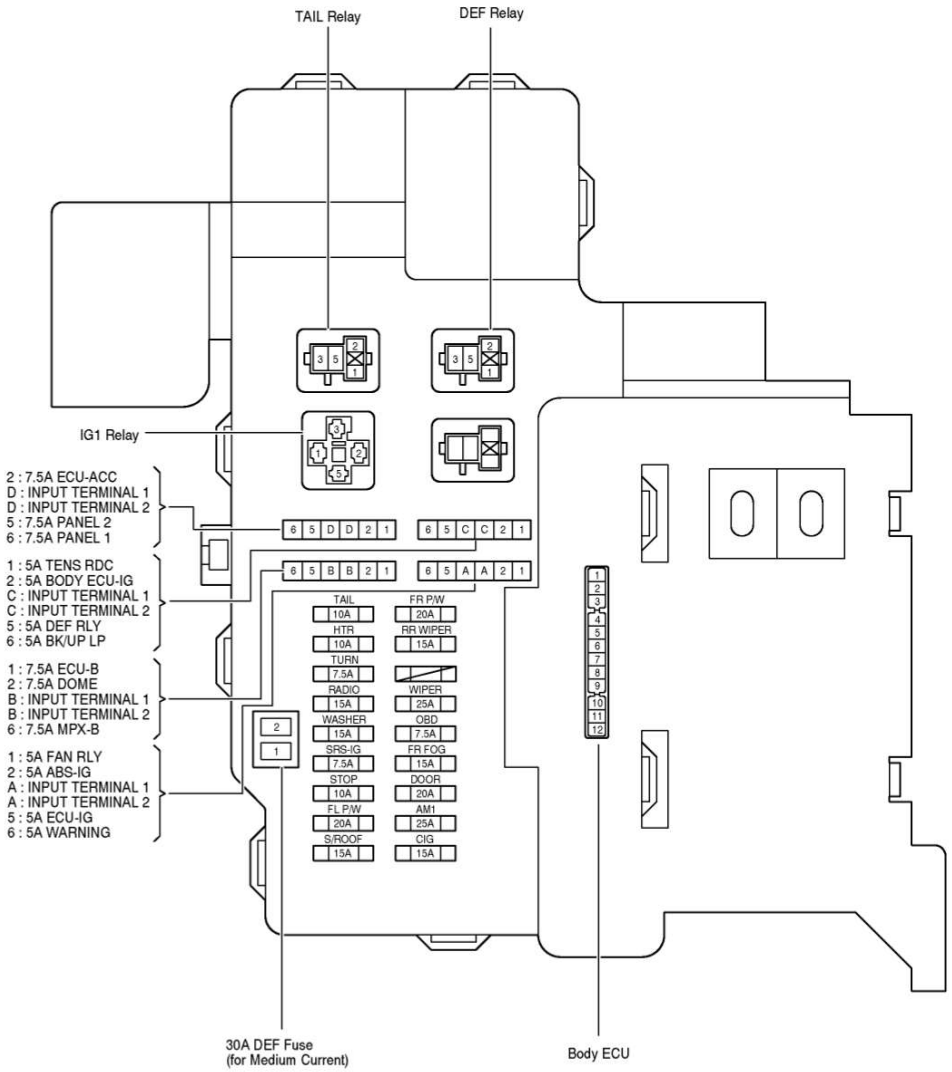


(Inner Circuit : See Page 28)

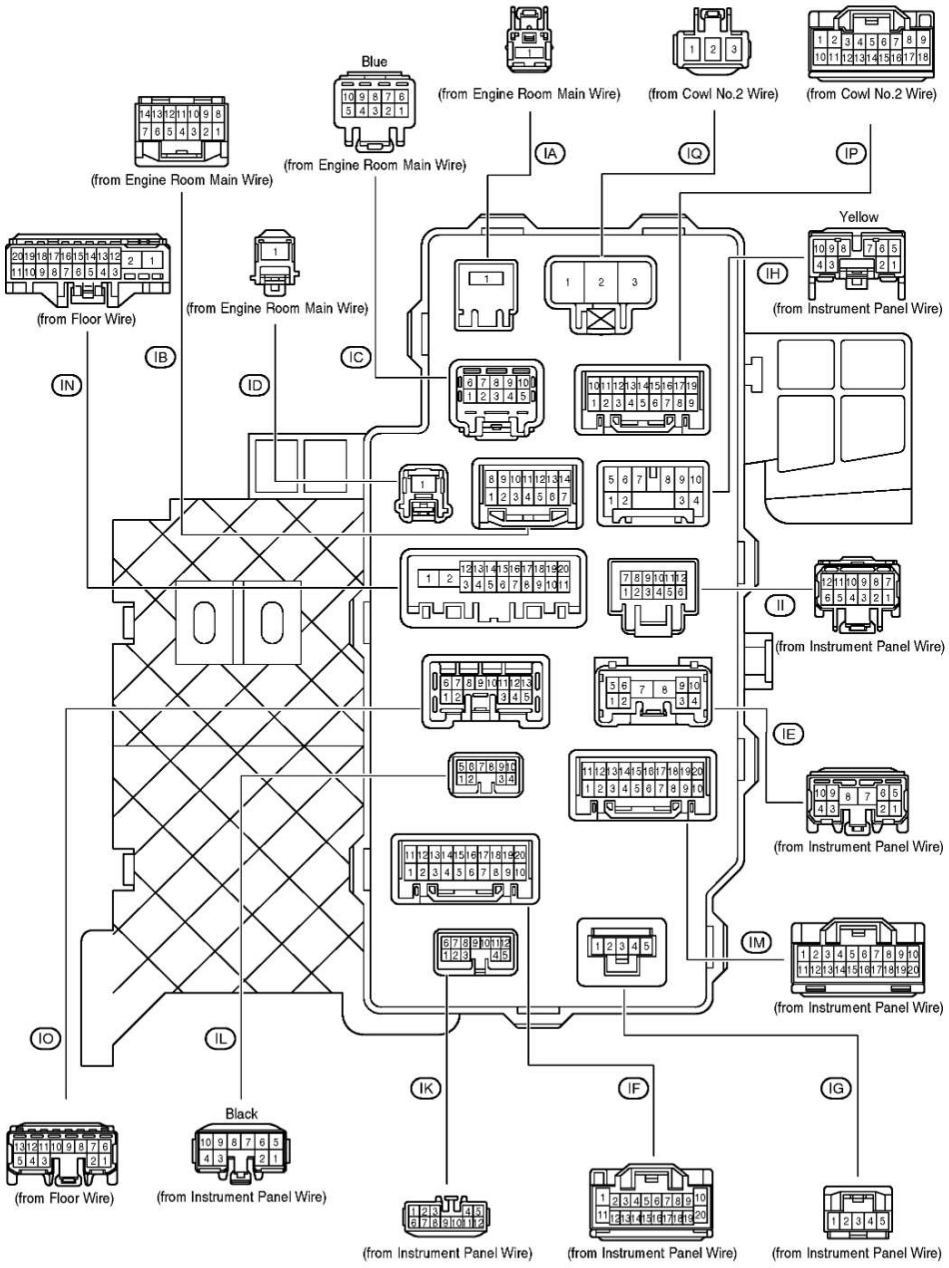


F RELAY LOCATIONS

: Instrument Panel J/B	Instrument Panel Brace RH (See Page 20)

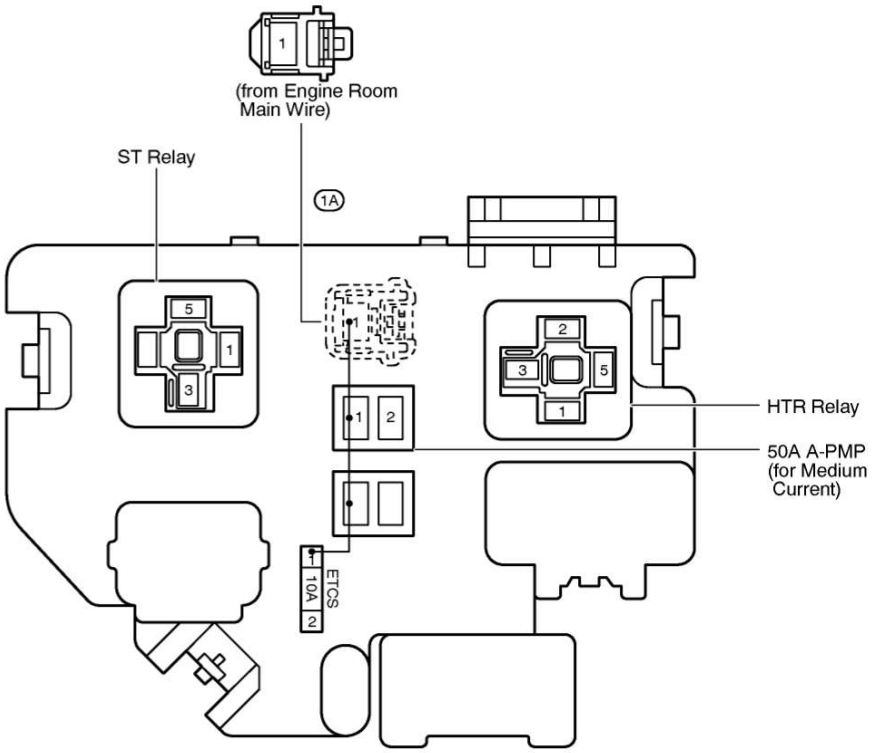


(Inner Circuit : See Page 30)

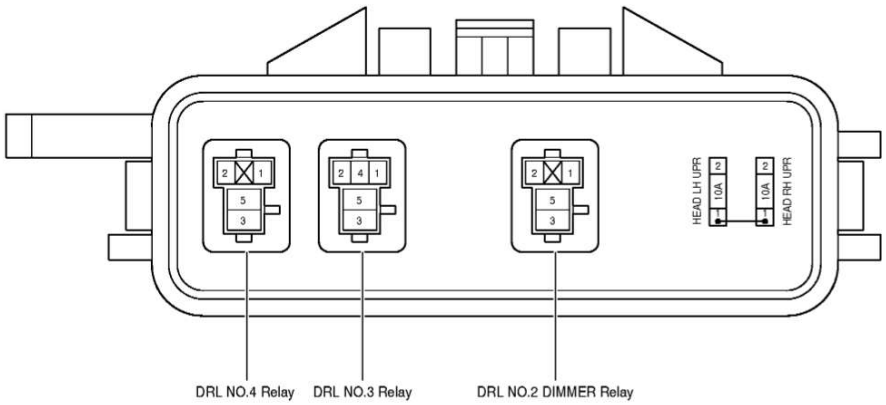


F RELAY LOCATIONS

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

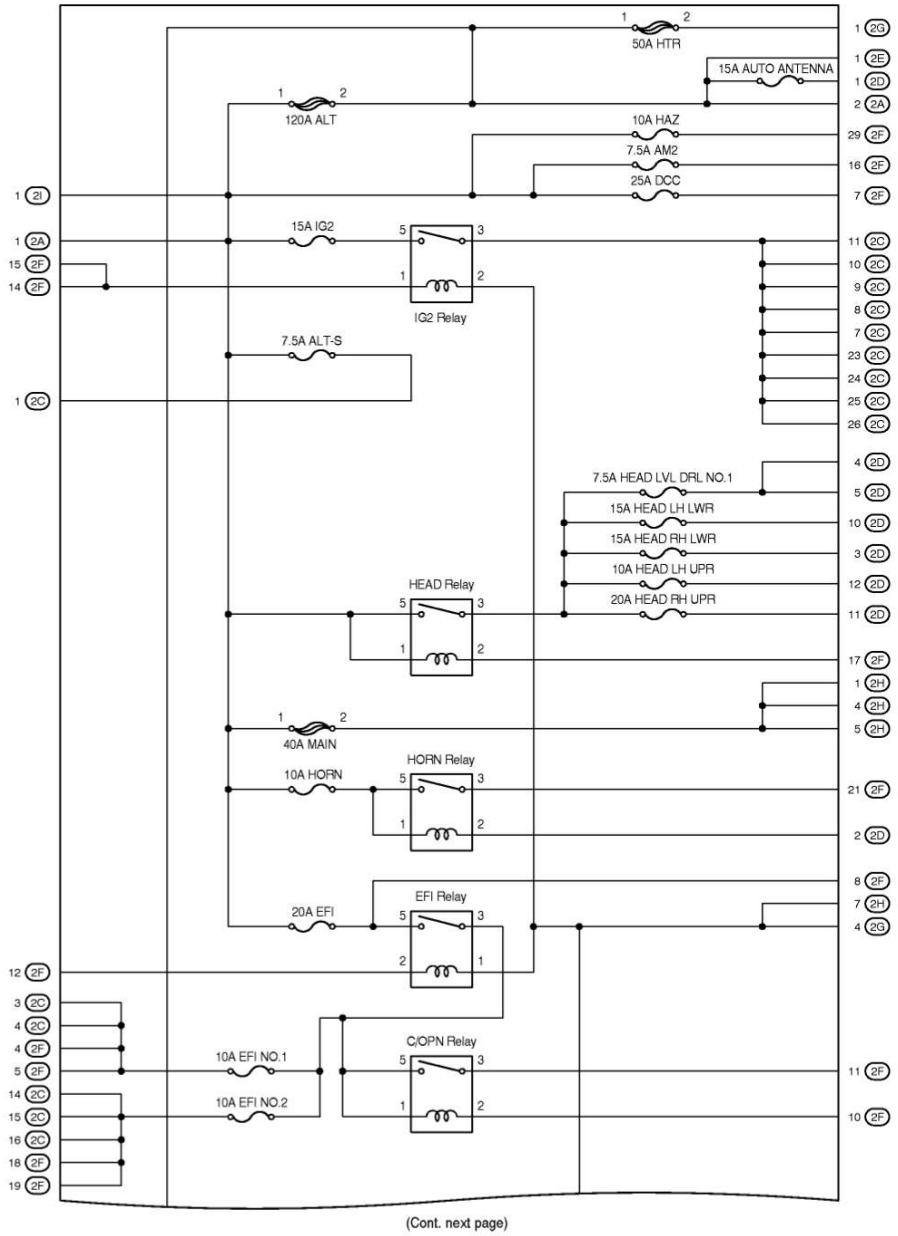


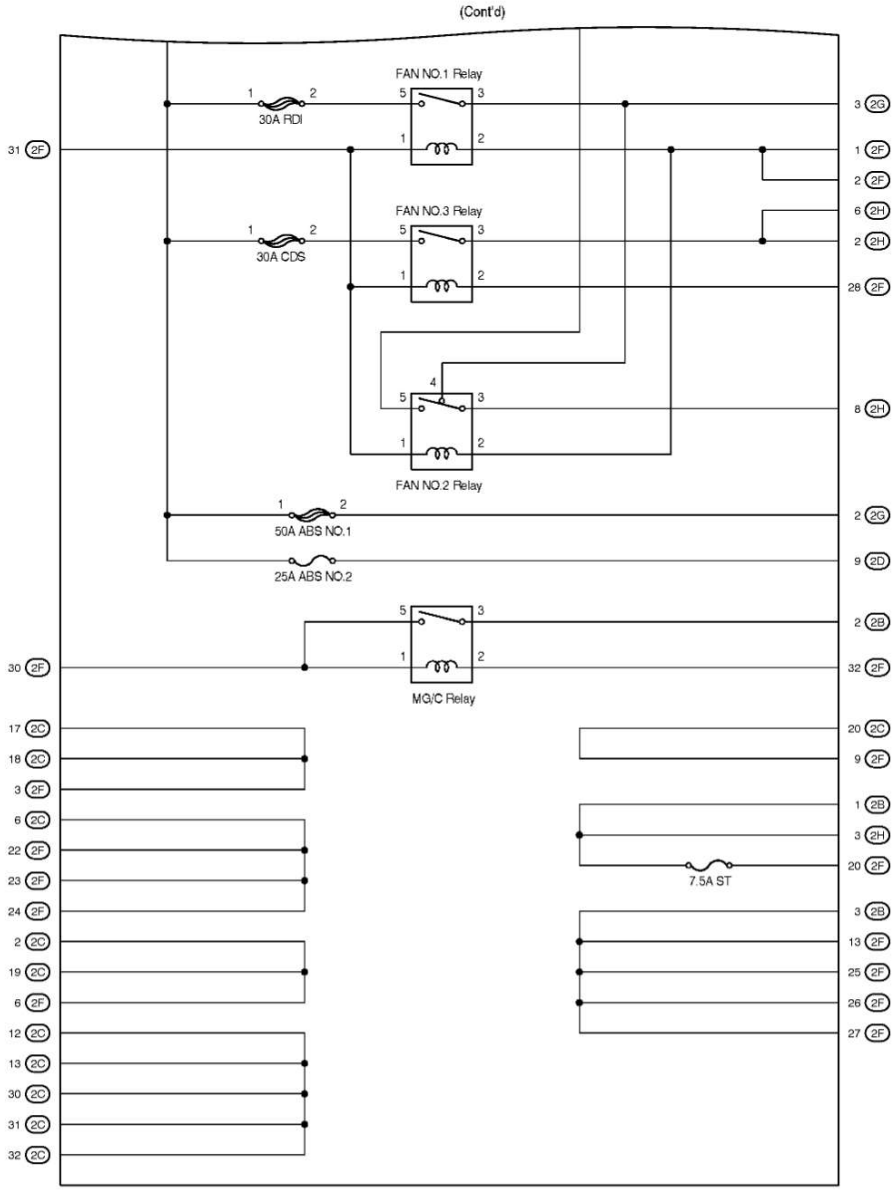
② : Engine Room R/B No.2	Engine Compartment Left (See Page 20)



F RELAY LOCATIONS

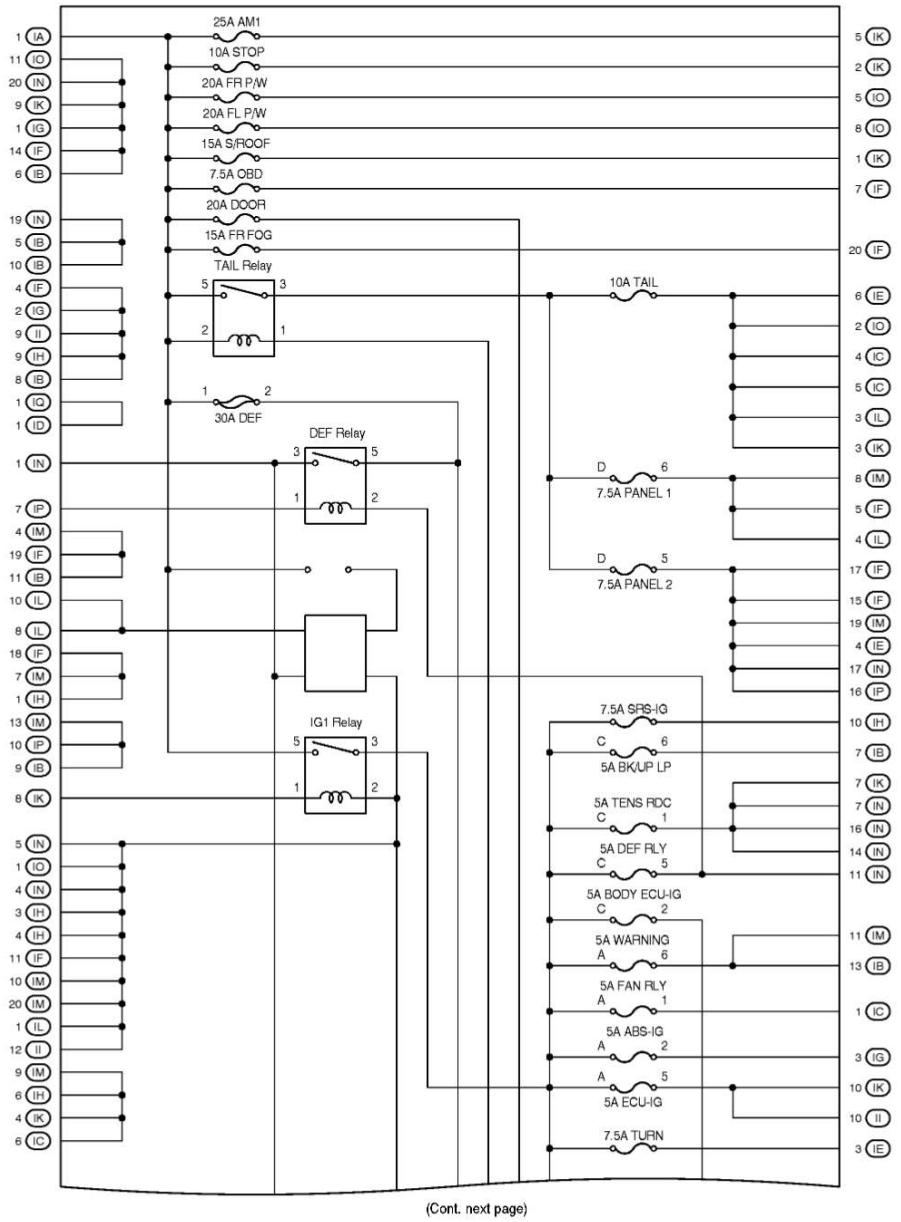
[Engine Room J/B Inner Circuit]

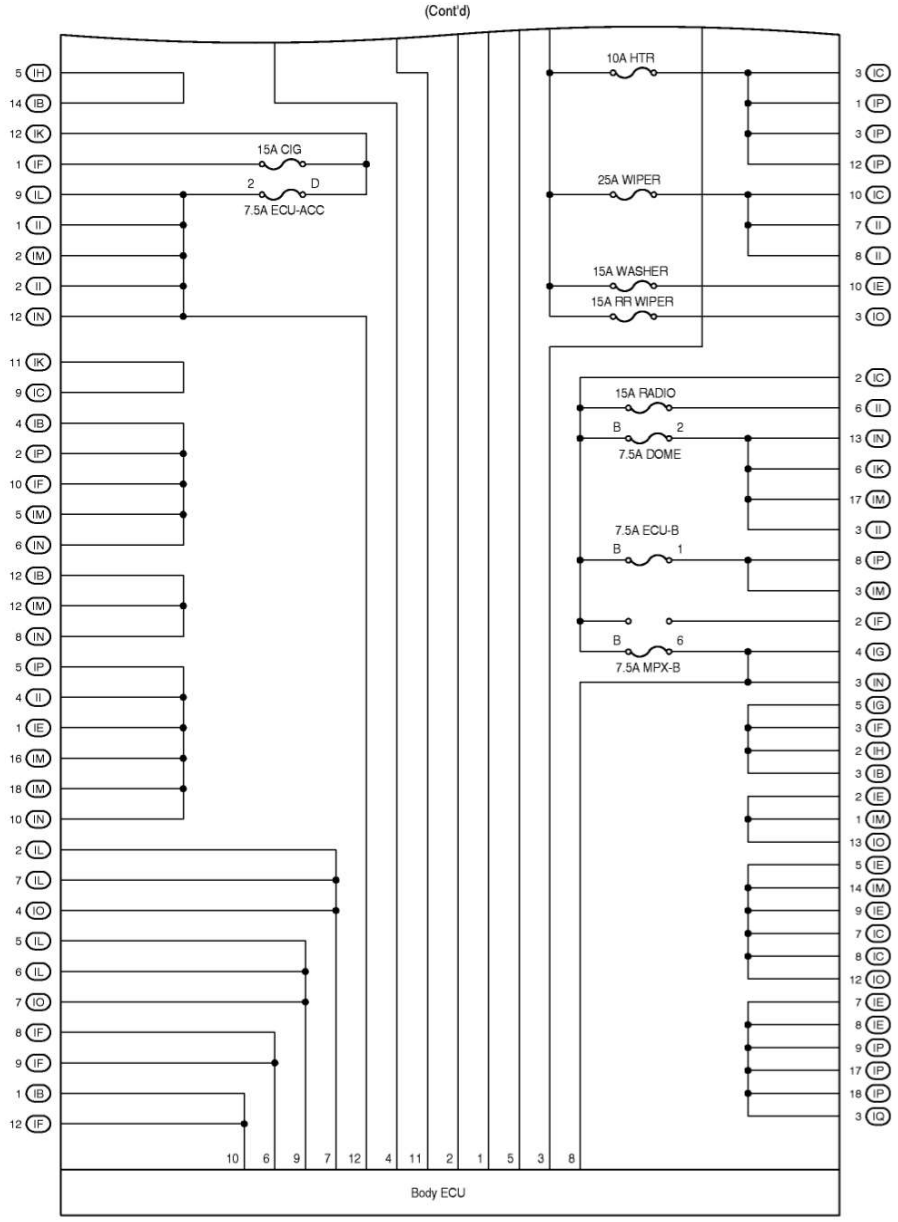



(Cont'd)
FAN NO.1 Relay
30A RDI
FAN NO.3 Relay
30A CDS
FAN NO.2 Relay
50A ABS NO.1
25A ABS NO.2
MG/C Relay
7.5A ST
31 2F
30 2F
17 2C
18 2C
3 2F
6 2C
22 2F
23 2F
24 2F
2 2C
19 2C
6 2F
12 2C
13 2C
30 2C
31 2C
32 2C
3 2G
1 2F
2 2F
6 2H
2 2H
28 2F
8 2H
2 2G
9 2D
2 2B
32 2F
20 2C
9 2F
1 2B
3 2H
20 2F
3 2B
13 2F
25 2F
26 2F
27 2F

F RELAY LOCATIONS

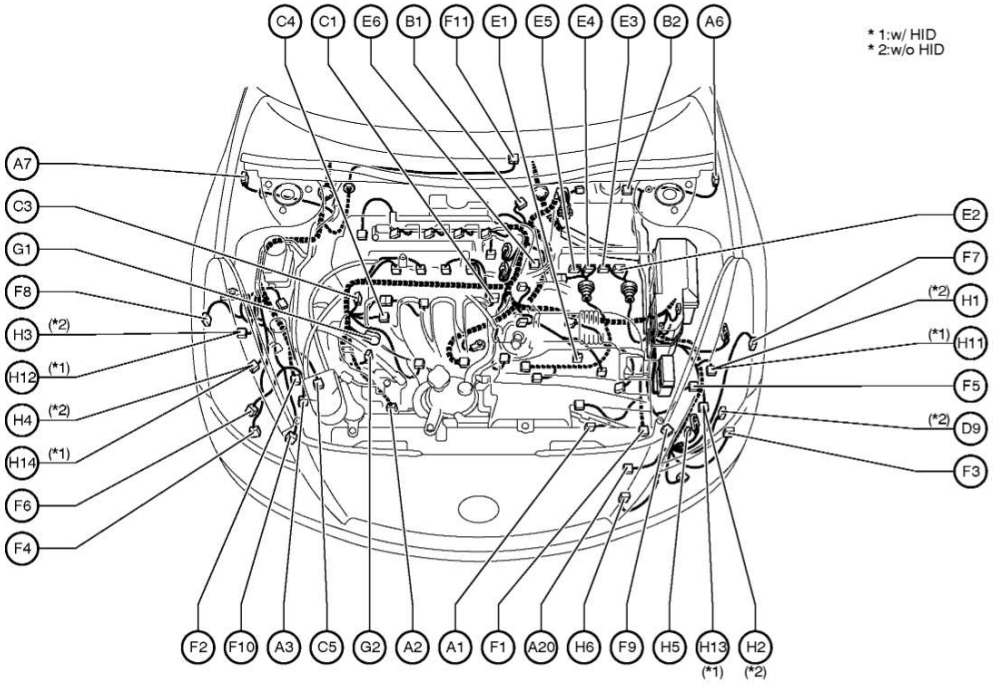
[Instrument Panel J/B Inner Circuit]




(Cont'd)
10A HTR
15A CIG
25A WIPER
15A WASHER
15A RR WIPER
15A RADIO
7.5A DOME
7.5A ECU-B
7.5A MPX-B
7.5A ECU-ACC
Body ECU

Position of Parts in Engine Compartment

[1ZZ-FE]



A 1 A/C Condenser Fan Motor
A 2 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Pressure SW
A 6 ABS Speed Sensor Front LH
A 7 ABS Speed Sensor Front RH
A20 Ambient Temp. Sensor

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

C 1 Camshaft Position Sensor
C 3 Camshaft Timing Oil Control Valve (VVT)
C 4 Crankshaft Position Sensor
C 5 Cruise Control Actuator

D 9 Daytime Running Light Resistor

E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Control Module
E 3 Engine Control Module
E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Coolant Temp. Sensor

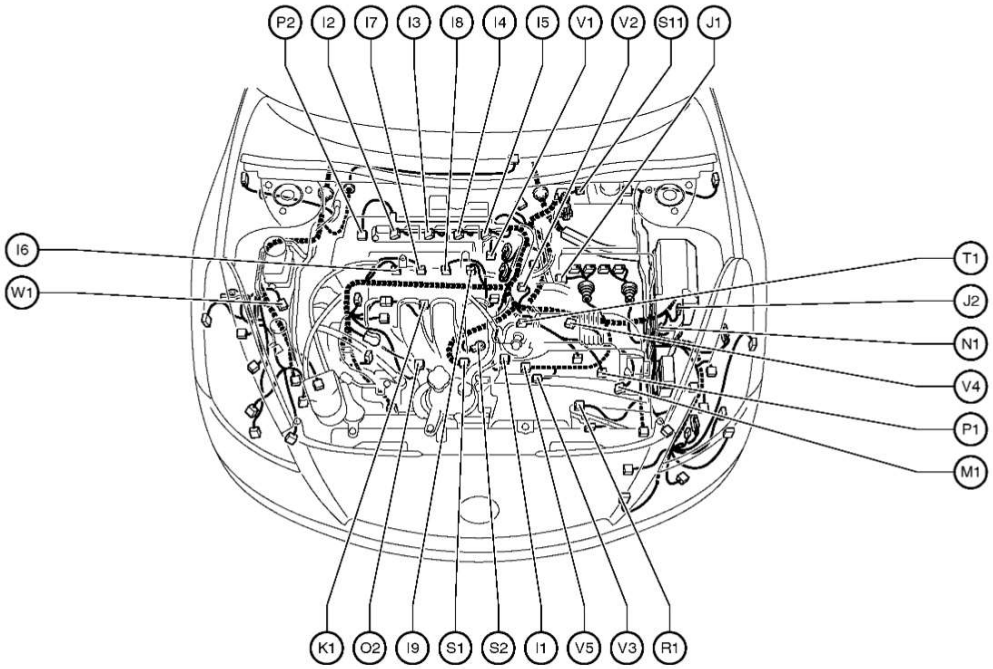
F 1 Front Airbag Sensor LH
F 2 Front Airbag Sensor RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Parking Light LH
F 6 Front Parking Light RH
F 7 Front Side Marker Light LH
F 8 Front Side Marker Light RH
F 9 Front Turn Signal Light LH
F 10 Front Turn Signal Light RH
F 11 Front Wiper Motor

G 1 Generator
G 2 Generator

H 1 Headlight LH (High)
H 2 Headlight LH (Low)
H 3 Headlight RH (High)
H 4 Headlight RH (Low)
H 5 Horn (High)
H 6 Horn (Low)
H 11 Headlight Beam Level Control Actuator LH
H12 Headlight Beam Level Control Actuator RH
H13 Headlight Assembly LH
H14 Headlight Assembly RH

Position of Parts in Engine Compartment

[1ZZ-FE]



I 1 Idle Air Control Valve
I 2 Ignition Coil and Igniter No.1
I 3 Ignition Coil and Igniter No.2
I 4 Ignition Coil and Igniter No.3
I 5 Ignition Coil and Igniter No.4
I 6 Injector No.1
I 7 Injector No.2
I 8 Injector No.3
I 9 Injector No.4

J 1 Junction Connector
J 2 Junction Connector

K 1 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition System)

O 2 Oil Pressure SW

P 1 Park/Neutral Position SW
P 2 Power Steering Oil Pressure SW

R 1 Radiator Fan Motor

S 1 Starter
S 2 Starter
S 11 Skid Control ECU with Actuator

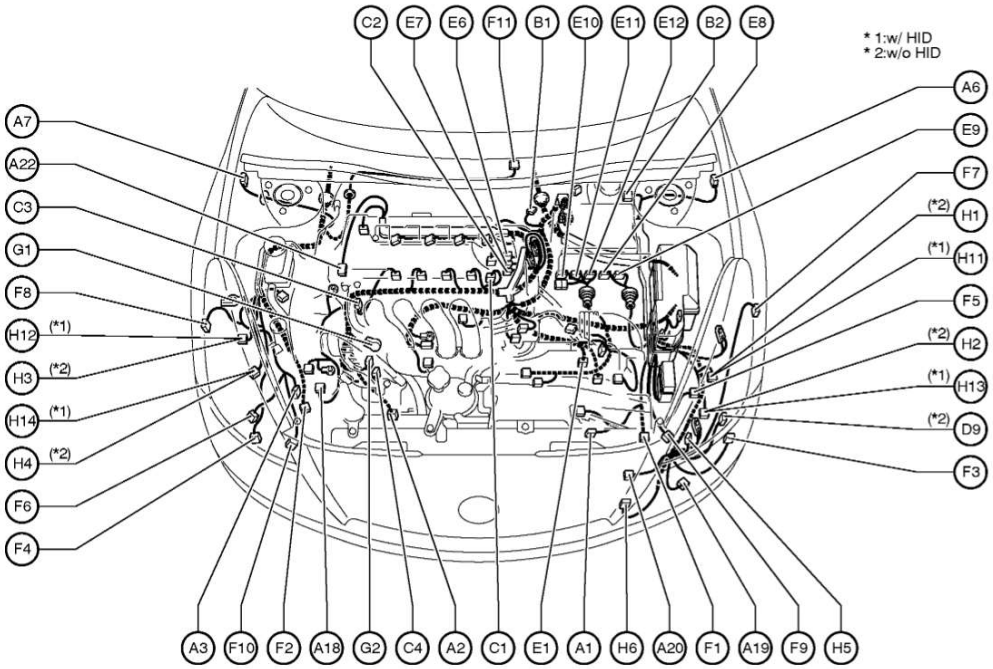
T 1 Throttle Position Sensor

V 1 Vehicle Speed Sensor (Combination Meter)
V 2 Vehicle Speed Sensor
(Electronically Controlled Transmission)
V 3 VSV (ACIS)
V 4 VSV (Canister Closed Valve)
V 5 VSV (EVAP)

W 1 Washer Motor

Position of Parts in Engine Compartment

[2ZZ-GE]



A 1 A/C Condenser Fan Motor
A 2 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Pressure SW
A 6 ABS Speed Sensor Front LH
A 7 ABS Speed Sensor Front RH
A18 Air Pump Motor
A19 Air Pump Relay
A20 Ambient Temp. Sensor
A22 Air Pump Pressure Sensor

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

C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve (VVL)
C 3 Camshaft Timing Oil Control Valve (VVT)
C 4 Crankshaft Position Sensor

D 9 Daytime Running Light Resistor

E 1 Electronically Controlled Transmission Solenoid
E 6 Engine Coolant Temp. Sensor
E 7 Oil Pressure SW (VVTL)
E 8 Engine Control Module
E 9 Engine Control Module
E10 Engine Control Module
E11 Engine Control Module
E12 Engine Control Module

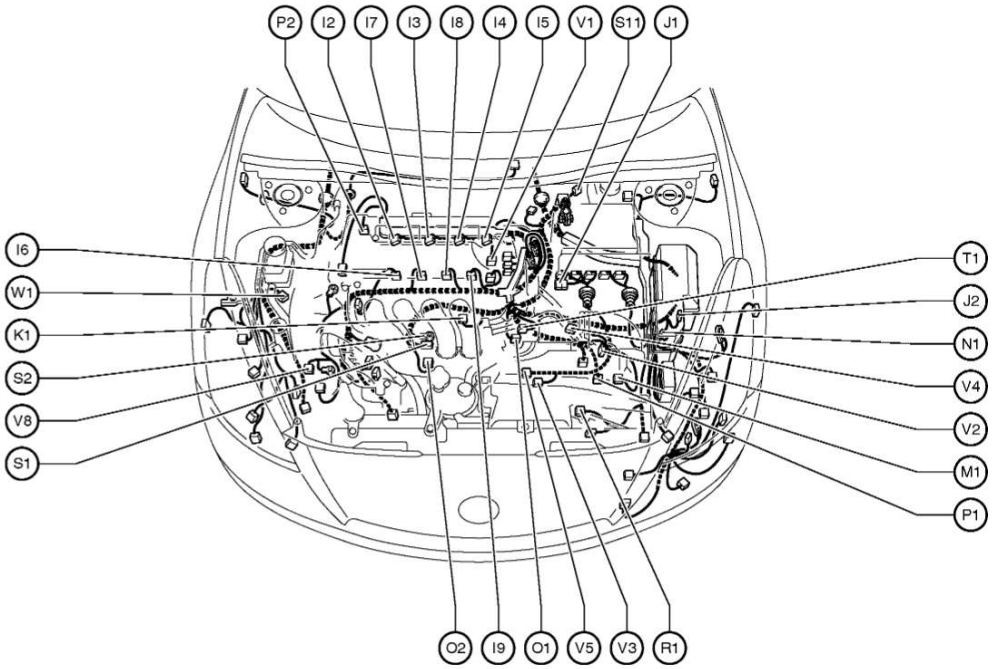
F 1 Front Airbag Sensor LH
F 2 Front Airbag Sensor RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Parking Light LH
F 6 Front Parking Light RH
F 7 Front Side Marker Light LH
F 8 Front Side Marker Light RH
F 9 Front Turn Signal Light LH
F10 Front Turn Signal Light RH
F11 Front Wiper Motor

G 1 Generator
G 2 Generator

H 1 Headlight LH (High)
H 2 Headlight LH (Low)
H 3 Headlight RH (High)
H 4 Headlight RH (Low)
H 5 Horn (High)
H 6 Horn (Low)
H11 Headlight Beam Level Control Actuator LH
H12 Headlight Beam Level Control Actuator RH
H13 Headlight Assembly LH
H14 Headlight Assembly RH

Position of Parts in Engine Compartment

[2ZZ-GE]



I 2 Ignition Coil and Igniter No.1
I 3 Ignition Coil and Igniter No.2
I 4 Ignition Coil and Igniter No.3
I 5 Ignition Coil and Igniter No.4
I 6 Injector No.1
I 7 Injector No.2
I 8 Injector No.3
I 9 Injector No.4

J 1 Junction Connector
J 2 Junction Connector

K 1 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition System)

O 1 O/D Direct Clutch Speed Sensor
O 2 Oil Pressure SW

P 1 Park/Neutral Position SW
P 2 Power Steering Oil Pressure SW

R 1 Radiator Fan Motor

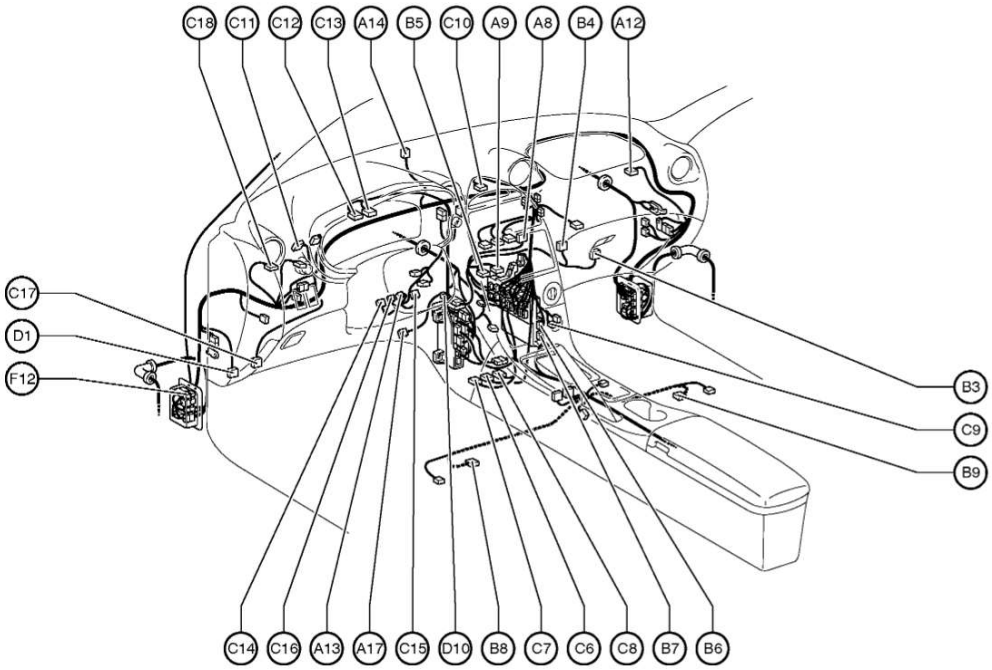
S 1 Starter
S 2 Starter
S 11 Skid Control ECU with Actuator

T 1 Throttle Position Sensor

V 1 Vehicle Speed Sensor (Combination Meter)
V 2 Vehicle Speed Sensor
(Electronically Controlled Transmission)
V 3 VSV (ACIS)
V 4 VSV (Canister Closed Valve)
V 5 VSV (EVAP)
V 8 VSV (Air Pump)

W 1 Washer Motor

Position of Parts in Instrument Panel



A 8 A/C Evaporator Temp. Sensor
A 9 A/C SW
A12 Airbag Squib (Front Passenger Airbag Assembly)
A13 Airbag Squib (Steering Wheel Pad)
A14 Automatic Light Control Sensor
A17 Accelerator Pedal Position Sensor

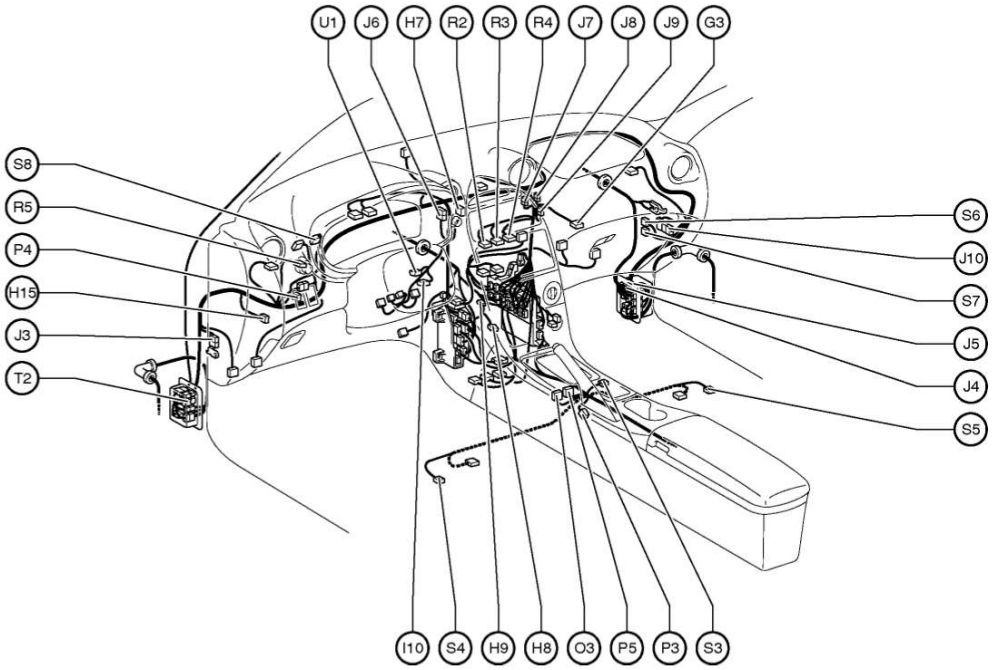
B 3 Blower Motor
B 4 Blower Resistor
B 5 Blower SW
B 6 Body ECU
B 7 Body ECU
B 8 Buckle SW LH
B 9 Buckle SW RH

C 6 Center Airbag Sensor Assembly
C 7 Center Airbag Sensor Assembly
C 8 Center Airbag Sensor Assembly
C 9 Cigarette Lighter
C10 Clock
C11 Clutch Start SW
C12 Combination Meter
C13 Combination Meter
C14 Combination SW
C15 Combination SW
C16 Combination SW
C17 Cruise Control Clutch SW
C18 Cruise Control ECU

D 1 Data Link Connector 3
D10 Diode (Rear Wiper)

F12 Front Fog Light Relay

Position of Parts in Instrument Panel



G 3 Glove Box Light and SW

H 7 Hazard SW
H 8 Heated Oxygen Sensor (Bank 1 Sensor 1)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H15 Headlight Beam Level Control SW

I 10 Ignition SW

J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 6 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 10 Junction Connector

O 3 O/D Main SW

P 3 Parking Brake SW
P 4 Power Window Lock SW
P 5 Power Window Master SW

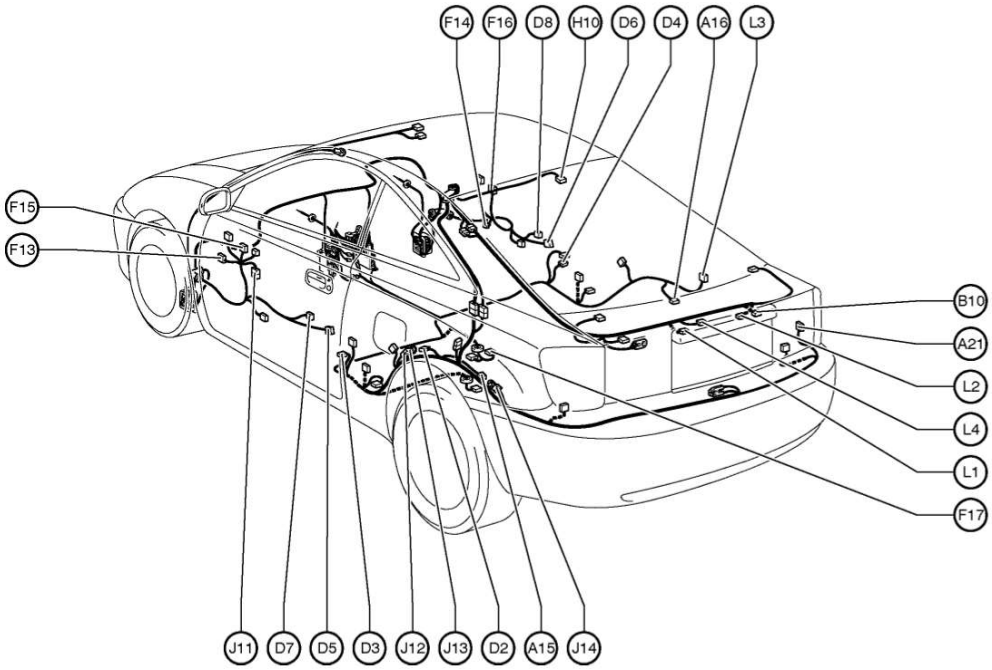
R 2 Radio and Player
R 3 Radio and Player
R 4 Radio and Player
R 5 Rheostat

S 3 Shift Lock Control ECU
S 4 Side Airbag Squib LH
S 5 Side Airbag Squib RH
S 6 Stereo Component Amplifier
S 7 Stereo Component Amplifier
S 8 Stop Light SW

T 2 Turn Signal Flasher Relay

U 1 Unlock Warning SW

Position of Parts in Body



A15 ABS Speed Sensor Rear LH
A16 ABS Speed Sensor Rear RH
A21 Auto Antenna Control Relay

B10 Back Door Lock Motor

D 2 Door Control Receiver
D 3 Door Courtesy SW LH
D 4 Door Courtesy SW RH
D 5 Door Key Lock and Unlock SW LH
Door Lock Detection SW LH
Door Lock Motor LH
D 6 Door Key Lock and Unlock SW RH
Door Lock Detection SW RH
Door Lock Motor RH
D 7 Door Side Airbag Sensor LH
D 8 Door Side Airbag Sensor RH

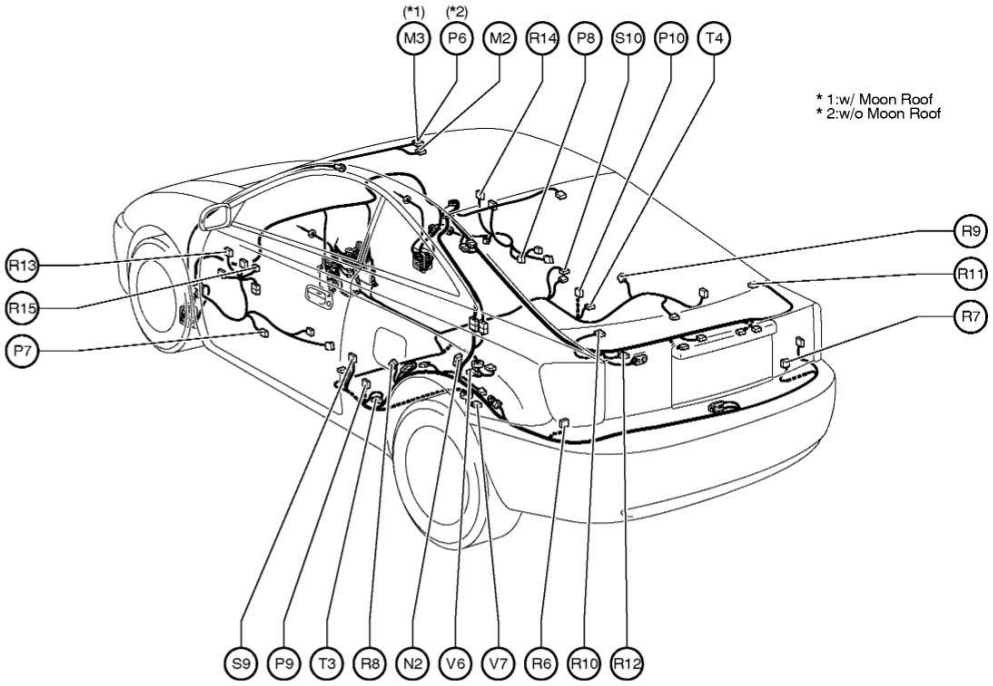
F 13 Front Door Speaker LH
F 14 Front Door Speaker RH
F 15 Front Door Tweeter Speaker LH
F 16 Front Door Tweeter Speaker RH
F 17 Fuel Pump
Fuel Sender

H10 High Mounted Stop Light

J 11 Junction Connector
J 12 Junction Connector
J 13 Junction Connector
J 14 Junction Connector

L 1 License Plate Light LH
L 2 License Plate Light RH
L 3 Luggage Compartment Light
L 4 Luggage Compartment Light SW

Position of Parts in Body



M 2 Moon Roof Control Relay and Motor
M 3 Moon Roof Control SW
Personal Light

N 2 Noise Filter (Rear Window Defogger)

P 6 Personal Light
P 7 Power Window Motor LH
P 8 Power Window Motor RH
P 9 Pretensioner LH
P10 Pretensioner RH

R 6 Rear Combination Light LH
R 7 Rear Combination Light RH
R 8 Rear Speaker LH
R 9 Rear Speaker RH
R10 Rear Window Defogger
R11 Rear Window Defogger
R12 Rear Wiper Motor and Relay
R13 Remote Control Mirror LH
R14 Remote Control Mirror RH
R15 Remote Control Mirror SW

S 9 Side Airbag Sensor LH
S10 Side Airbag Sensor RH

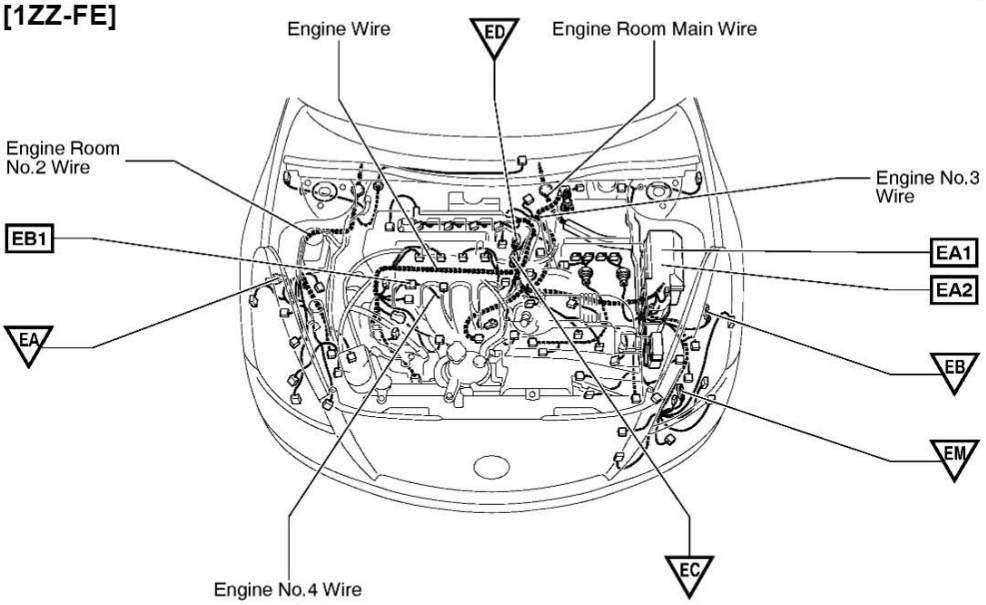
T 3 Tension Reducer Solenoid LH
T 4 Tension Reducer Solenoid RH

V 6 Vapor Pressure Sensor
V 7 VSV (Pressure Switching Valve)

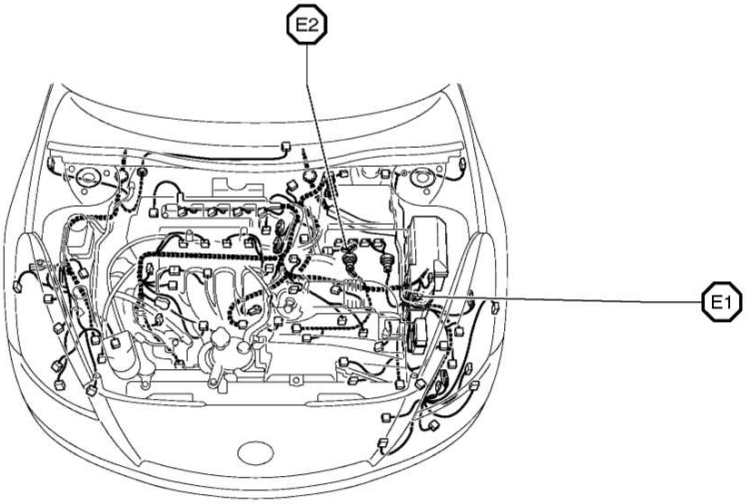
G ELECTRICAL WIRING ROUTING

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

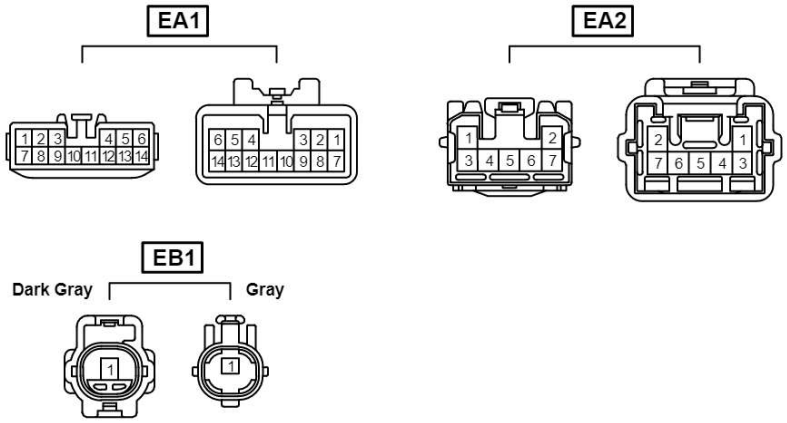
[1ZZ-FE]



⬡ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

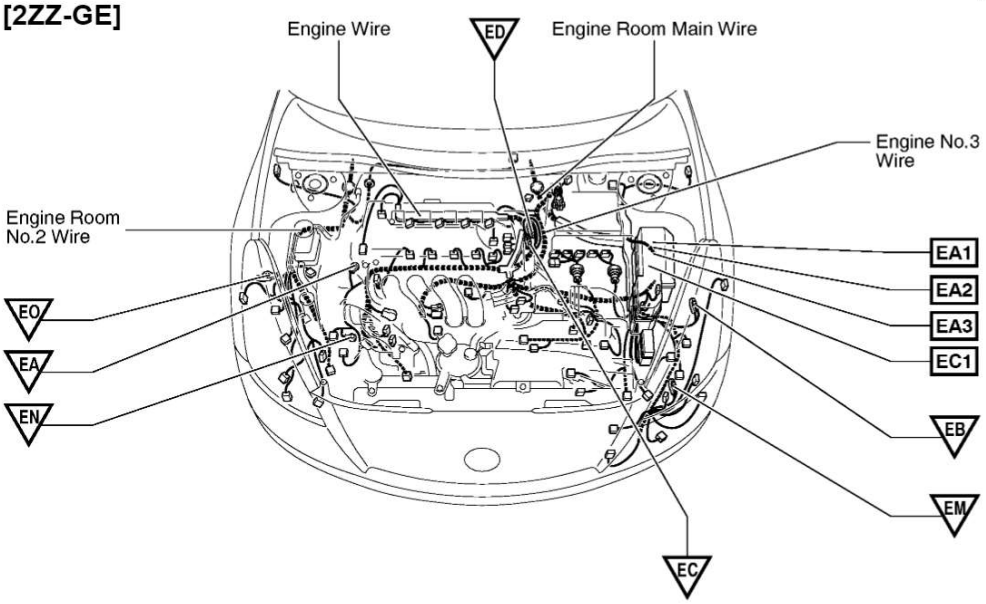


Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA2	
EB1	Engine No.4 Wire and Engine Wire (Under the Intake Manifold)

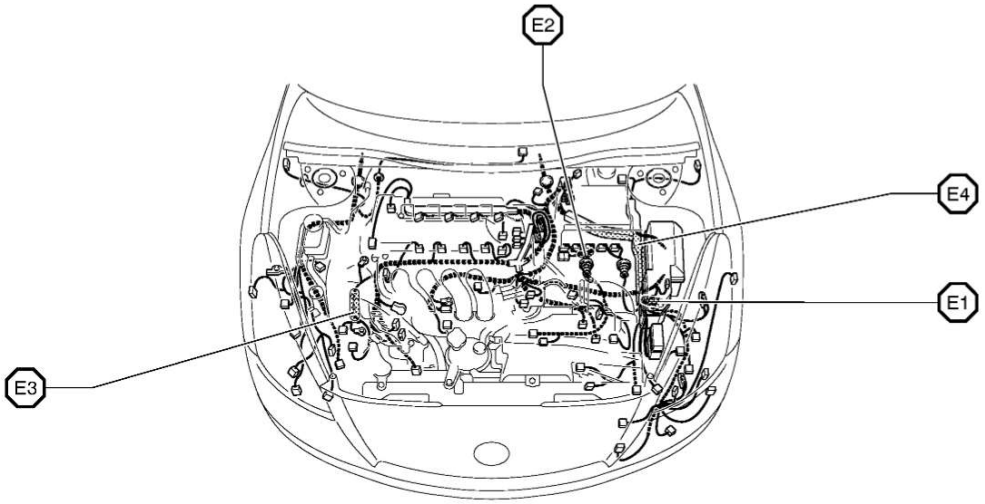
G ELECTRICAL WIRING ROUTING

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

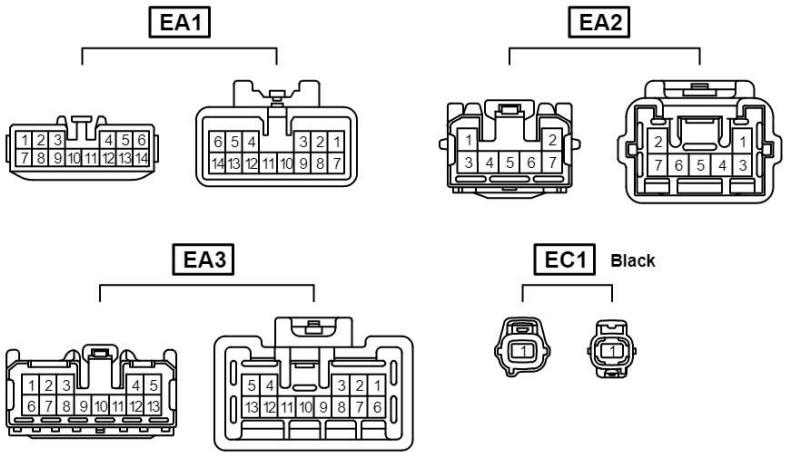
[2ZZ-GE]



⬡ : Location of Splice Points



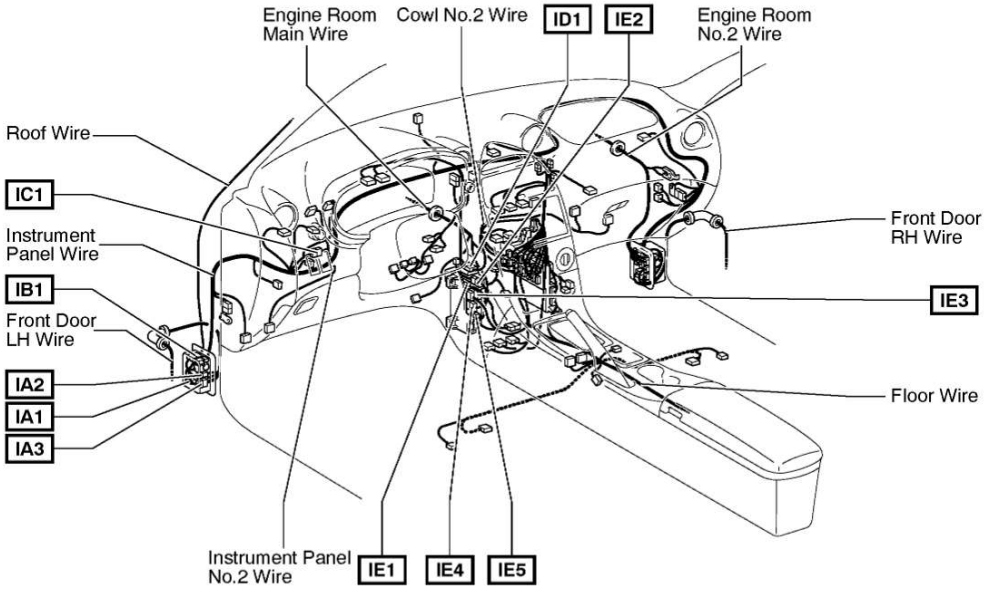
Connector Joining Wire Harness and Wire Harness



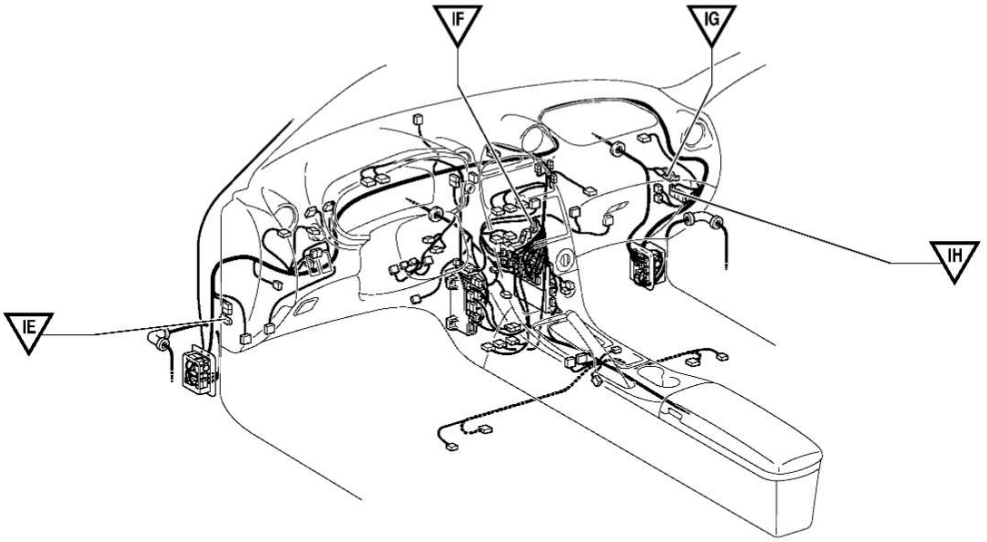
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA2	
EA3	
EC1	Engine Room Main Wire and Engine Wire (Inside of Engine Room R/B No.1)

G ELECTRICAL WIRING ROUTING

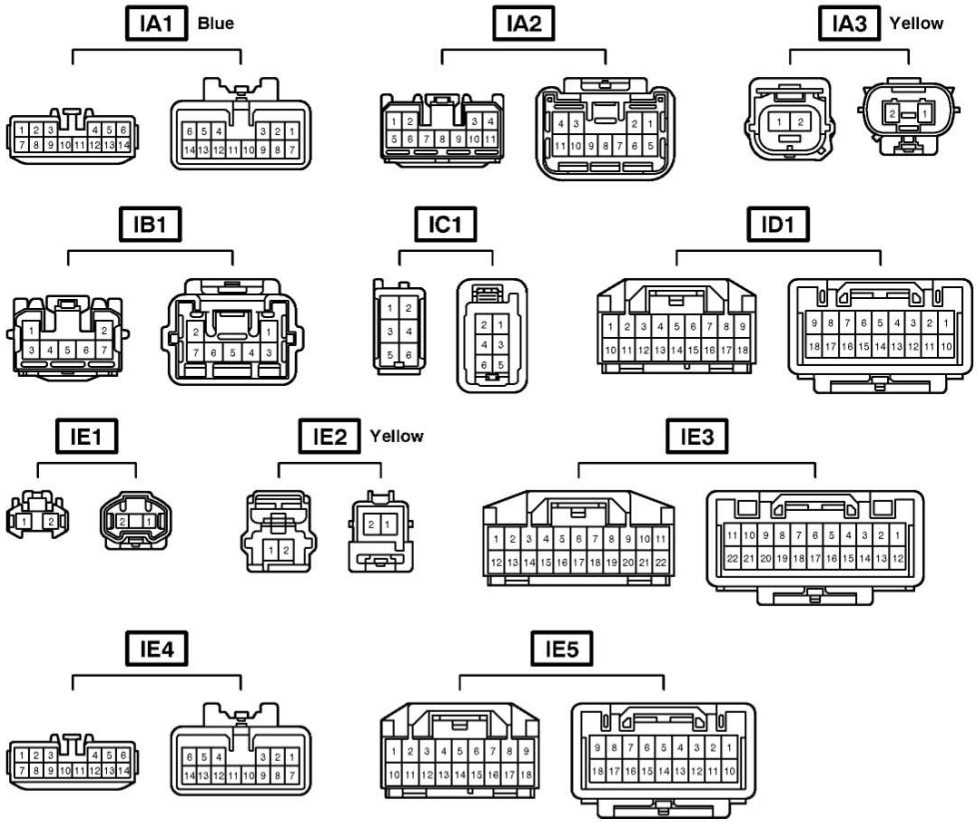
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

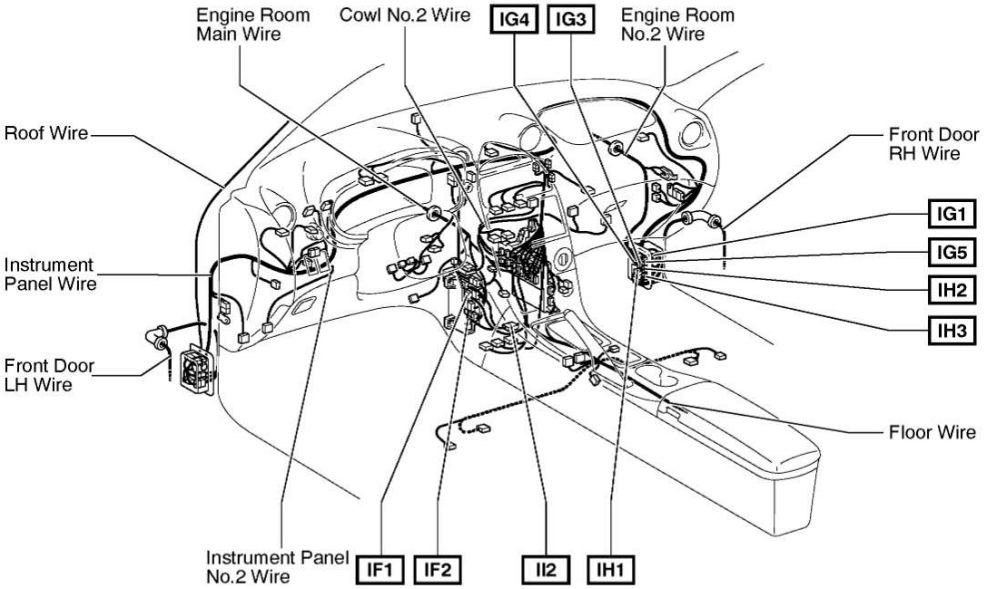


Connector Joining Wire Harness and Wire Harness

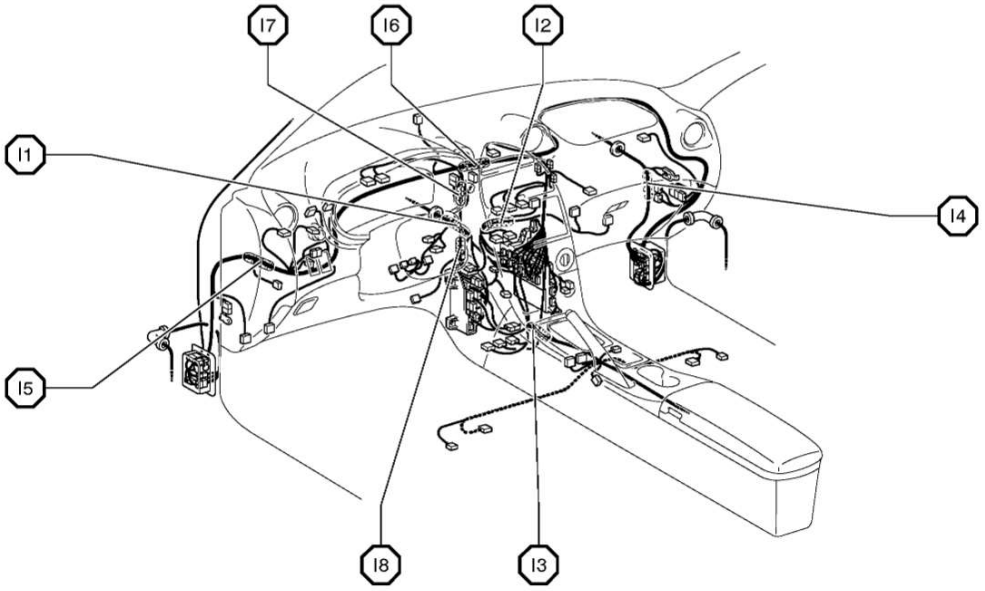


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2	
IA3	
IB1	Roof Wire and Instrument Panel Wire (Left Kick Panel)
IC1	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
ID1	Cowl No.2 Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE1	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE2	
IE3	
IE4	
IE5	

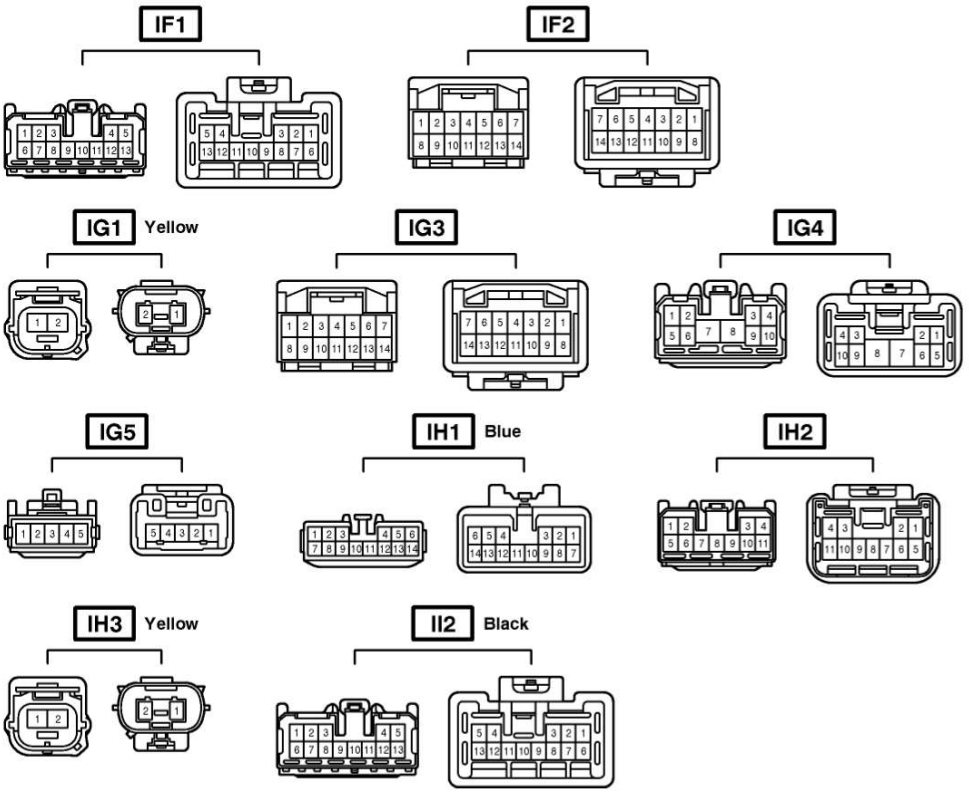
▭ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points



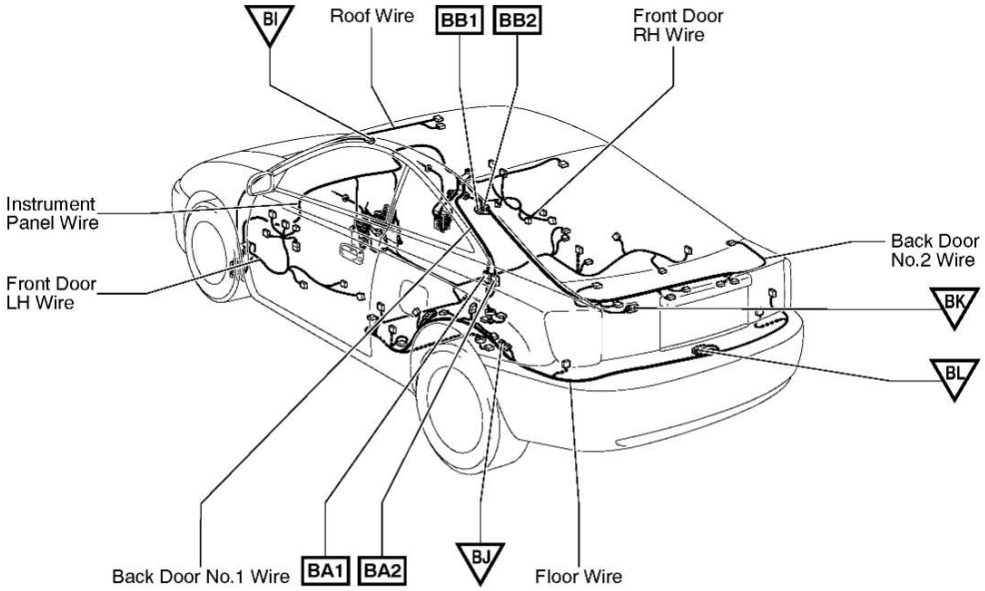
Connector Joining Wire Harness and Wire Harness



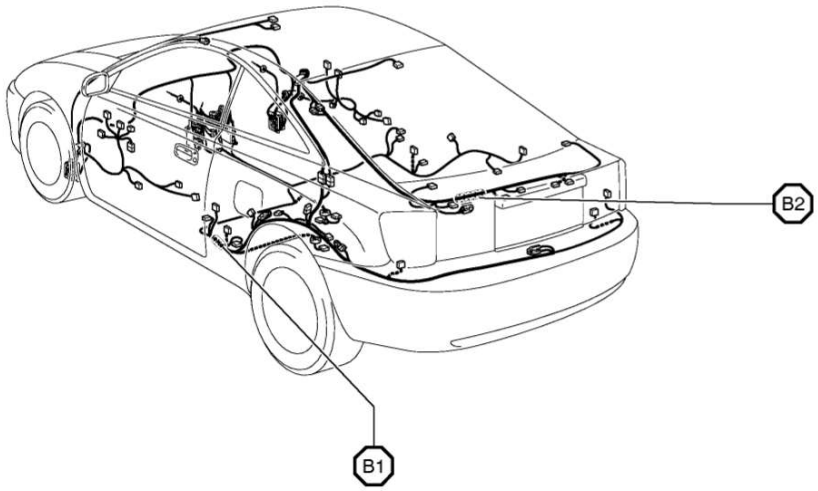
Code	Joining Wire Harness and Wire Harness (Connector Location)
IF1	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF2	
IG1	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IG3	
IG4	
IG5	
IH1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2	
IH3	
II2	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

G ELECTRICAL WIRING ROUTING

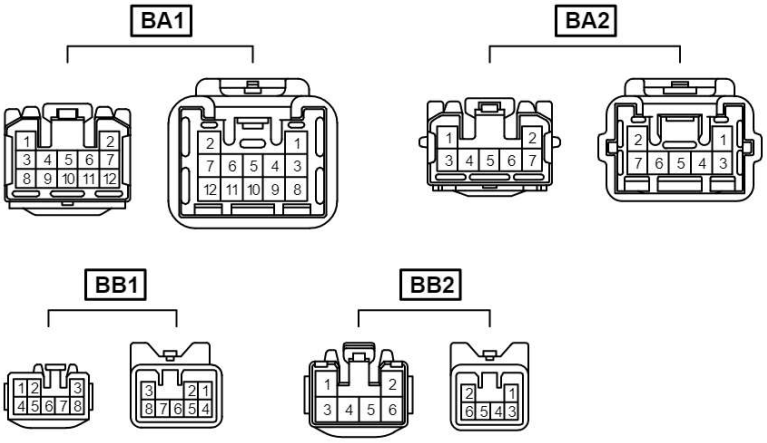
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

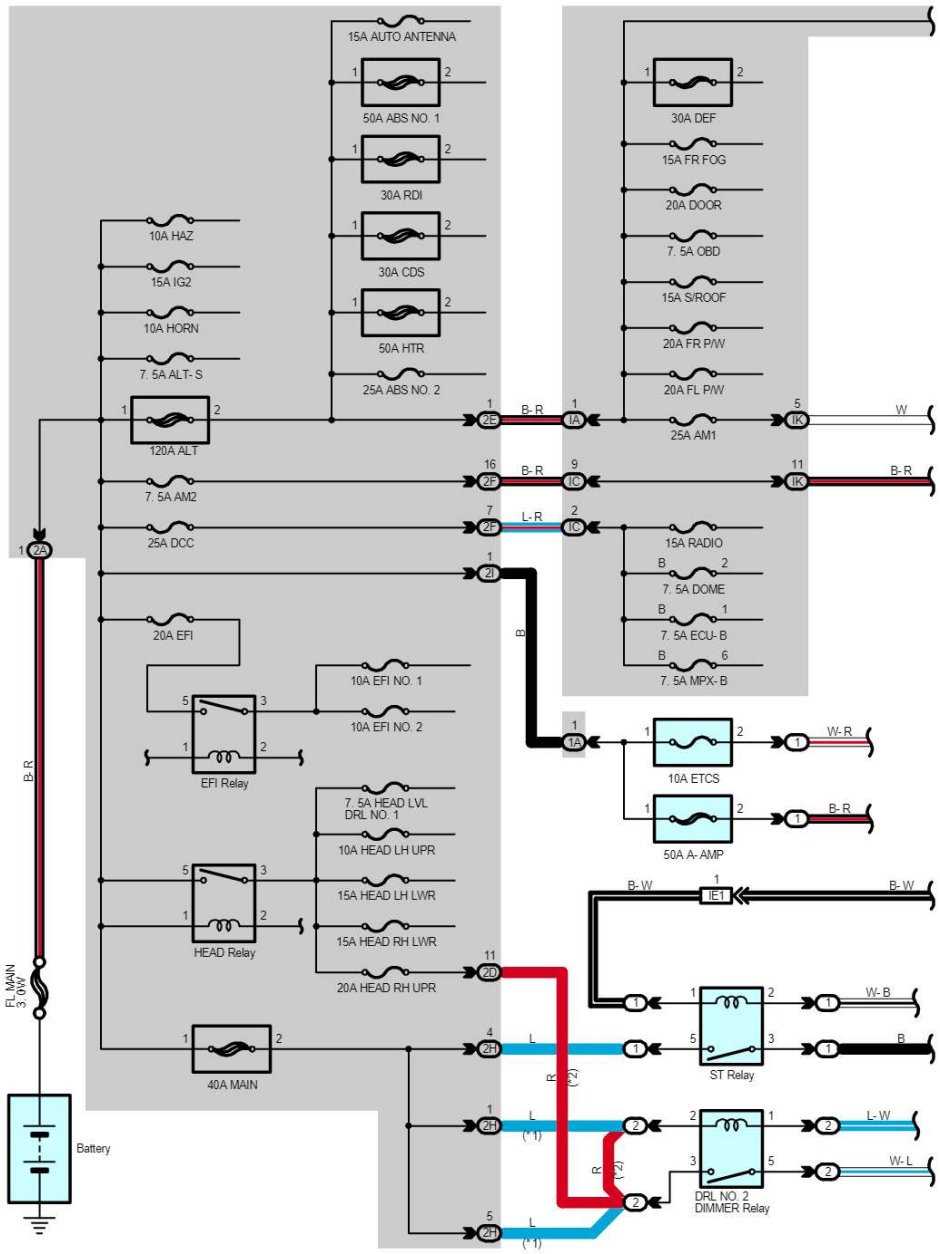


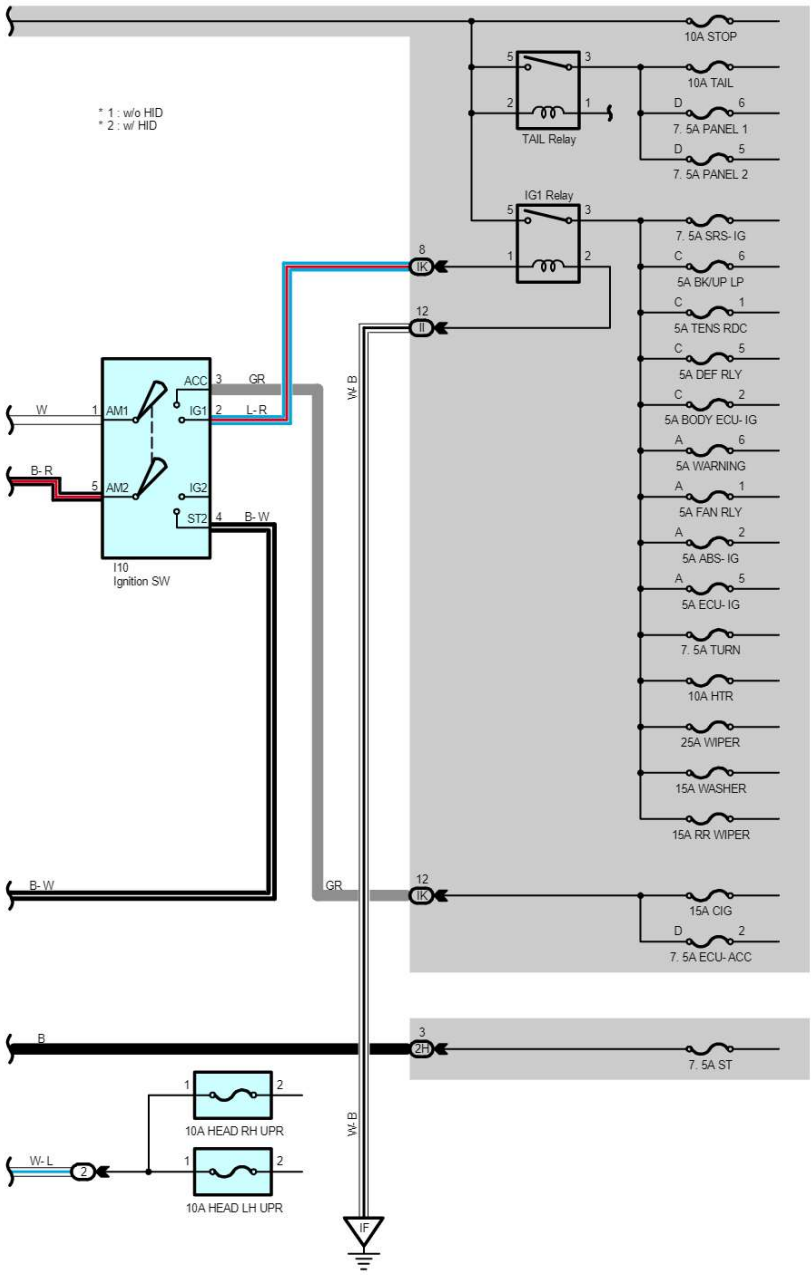
Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BA2	
BB1	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)
BB2	

MEMO

2005 CELICA
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

	Page
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Air Conditioning	214
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15A AUTO ANTENNA
50A ABS NO. 1
30A RDI
30A CDS
50A HTR
25A ABS NO. 2
10A HAZ
15A IG2
10A HORN
7. 5A ALT- S
120A ALT
7. 5A AM2
25A DCC
20A EFI
10A EFI NO. 1
10A EFI NO. 2
EFI Relay
7. 5A HEAD LVL DRL NO. 1
10A HEAD LH UPR
15A HEAD LH LWR
15A HEAD RH LWR
20A HEAD RH UPR
HEAD Relay
40A MAIN
FL MAIN 3. 0W
Battery
30A DEF
15A FR FOG
20A DOOR
7. 5A OBD
15A S/ROOF
20A FR P/W
20A FL P/W
25A AM1
15A RADIO
7. 5A DOME
7. 5A ECU- B
7. 5A MPX- B
10A ETCS
50A A- AMP
ST Relay
DRL NO. 2 DIMMER Relay
B- R
B- W
W- R
W- B
L- W
W- L
L- R
W
B
L
R
(*1)
(*2)


* 1 : w/o HID
* 2 : w/ HID
10A STOP
10A TAIL
TAIL Relay
7. 5A PANEL 1
7. 5A PANEL 2
IG1 Relay
7. 5A SRS- IG
5A BK/UP LP
5A TENS RDC
5A DEF RLY
5A BODY ECU- IG
5A WARNING
5A FAN RLY
5A ABS- IG
5A ECU- IG
7. 5A TURN
10A HTR
25A WIPER
15A WASHER
15A RR WIPER
15A CIG
7. 5A ECU- ACC
7. 5A ST
10A HEAD RH UPR
10A HEAD LH UPR
I10
Ignition SW
ACC
IG1
IG2
ST2
AM1
AM2
W
B- R
B- W
GR
L- R
W- B
W- L
B
IK
IT
2H
IF

Service Hints

HEAD Relay

5-3 : Closed with the light control SW at HEAD position or the dimmer SW at FLASH position
Closed with the engine running and the parking brake lever released (Parking brake SW off)

TAIL Relay

5-3 : Closed with the light control SW at TAIL or HEAD position

I10 Ignition SW

1-3 : Closed with the ignition key at ACC or ON position
1-2 : Closed with the ignition key at ON or ST position
5-4 : Closed with the ignition key at ST position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
I10	37				

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)
2	27	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

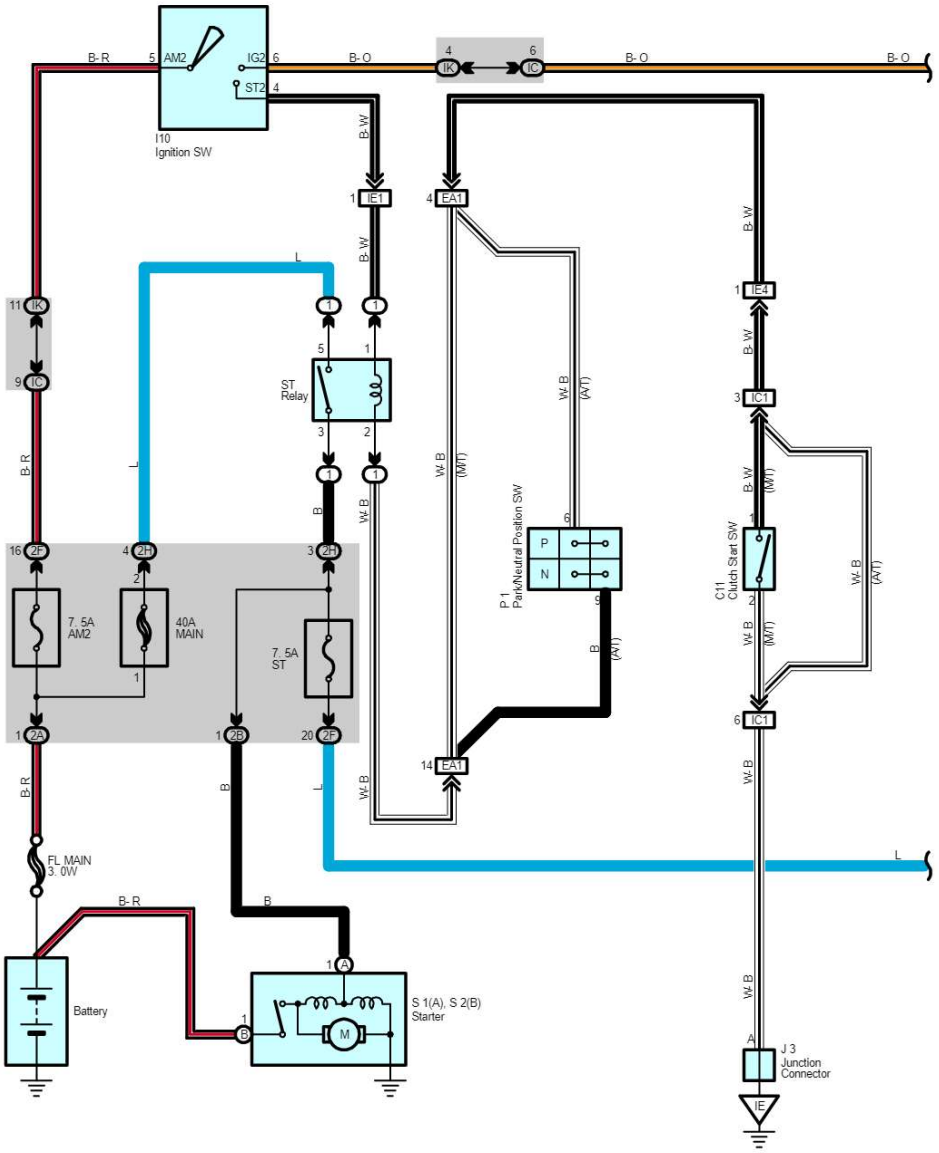
Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		
1A	26	Engine Room Main Wire and Engine Room J/B No.1 (Engine Compartment Left)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2E		
2F		
2H		
2I		

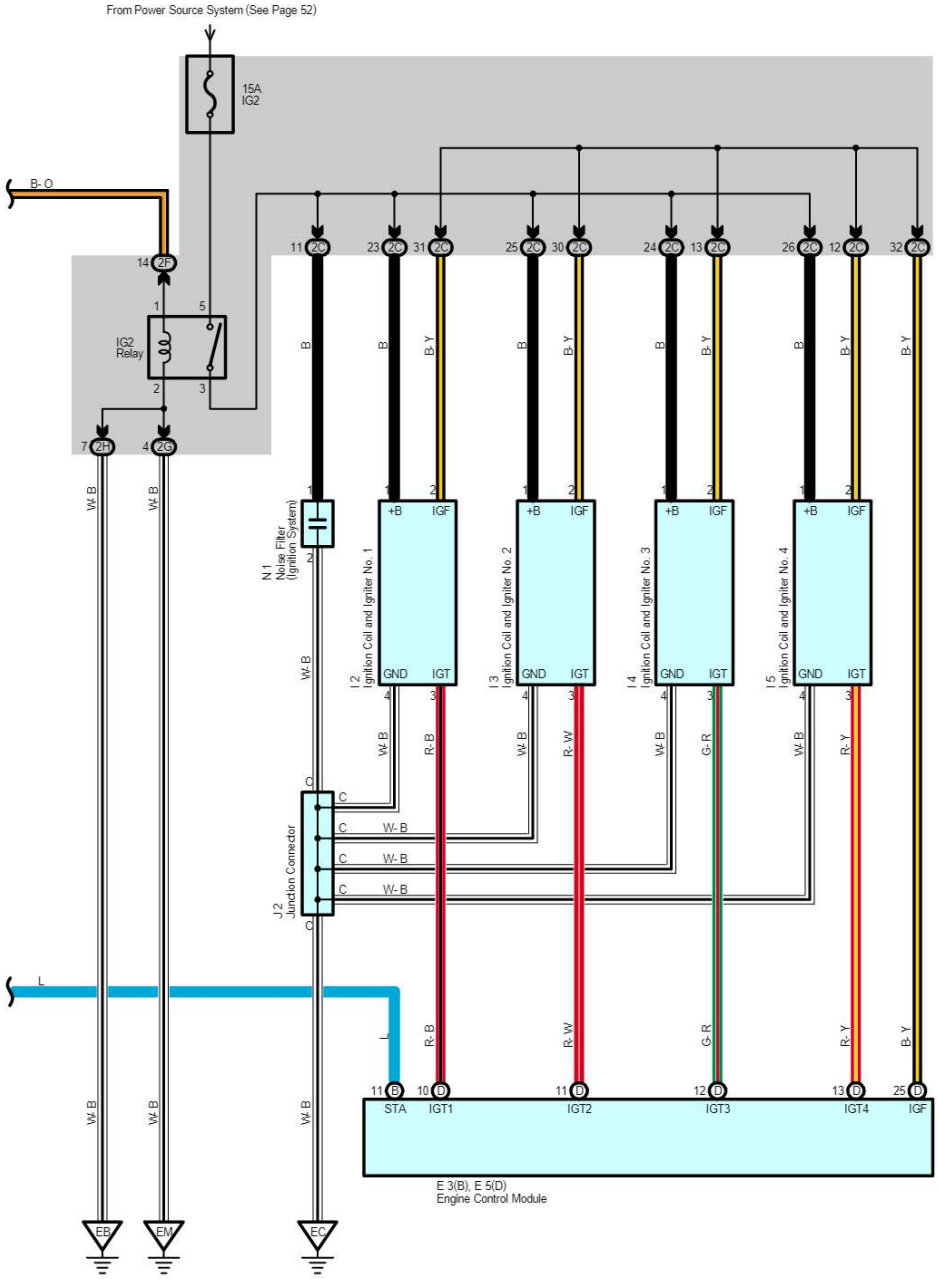
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH


B-R
5 AM2
IG2 6
ST2 4
I10
Ignition SW
B-O
4 IK
6 IC
B-O
B-O
B-W
1 IE1
4 EA1
B-W
1 IE4
B-W
3 IC1
L
11 IK
9 IC
5
1
ST
Relay
3
2
B-R
L
B
W-B
W-B
(M/T)
W-B
(A/T)
P 1
Park/Neutral Position SW
P
N
6
B
(A/T)
B-W
(M/T)
C11
Clutch Start SW
W-B
(A/T)
W-B
(M/T)
6 IC1
16 2F
4 2H
3 2H
2
7.5A
AM2
40A
MAIN
7.5A
ST
1
1 2A
1 2B
20 2F
14 EA1
W-B
B-R
B
L
W-B
L
FL MAIN
3.0W
B-R
B
1 A
Battery
1 B
M
S 1(A), S 2(B)
Starter
W-B
A
J 3
Junction
Connector
IE


From Power Source System (See Page 52)
15A
IG2
B-O
14 2F
1
5
IG2
Relay
2
3
7 2H
4 2G
11 2C
23 2C
31 2C
25 2C
30 2C
24 2C
13 2C
26 2C
12 2C
32 2C
B
B
B-Y
B
B-Y
B
B-Y
B
B-Y
B-Y
W-B
W-B
N 1
Noise Filter
(Ignition System)
I 2
Ignition Coil and Igniter No. 1
I 3
Ignition Coil and Igniter No. 2
I 4
Ignition Coil and Igniter No. 3
I 5
Ignition Coil and Igniter No. 4
+B
IGF
GND
IGT
W-B
R-B
R-W
G-R
R-Y
J 2
Junction Connector
C
W-B
L
11 B
STA
10 D
IGT1
11 D
IGT2
12 D
IGT3
13 D
IGT4
25 D
IGF
E 3(B), E 5(D)
Engine Control Module
EB
EM
EC

Service Hints

I10 Ignition SW

5-6 : Closed with the ignition SW at ON or ST position
5-4 : Closed with the ignition SW at ST position

C11 Clutch Start SW (M/T)

1-2 : Closed with the clutch pedal fully depressed

ST Relay

5-3 : Closed with the clutch start SW on (M/T), Park/Neutral position SW on (A/T) and the ignition SW at ST position

S1 (A), S2 (B) Starter

Points closed with the clutch start SW on and the ignition SW at ST position (M/T)
Points closed with the Park/Neutral position SW at P or N position and the ignition SW at ST position (A/T)

P1 Park/Neutral Position SW (A/T)

6-9 : Closed with the A/T shift lever at P or N position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C11	36	I4	33 (1ZZ-FE)	N1	33 (1ZZ-FE)
E3 B	32 (1ZZ-FE)	I5	33 (1ZZ-FE)	P1	33 (1ZZ-FE)
E5 D	32 (1ZZ-FE)	I10	37	S1 A	33 (1ZZ-FE)
I2	33 (1ZZ-FE)	J2	33 (1ZZ-FE)	S2 B	33 (1ZZ-FE)
I3	33 (1ZZ-FE)	J3	37		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

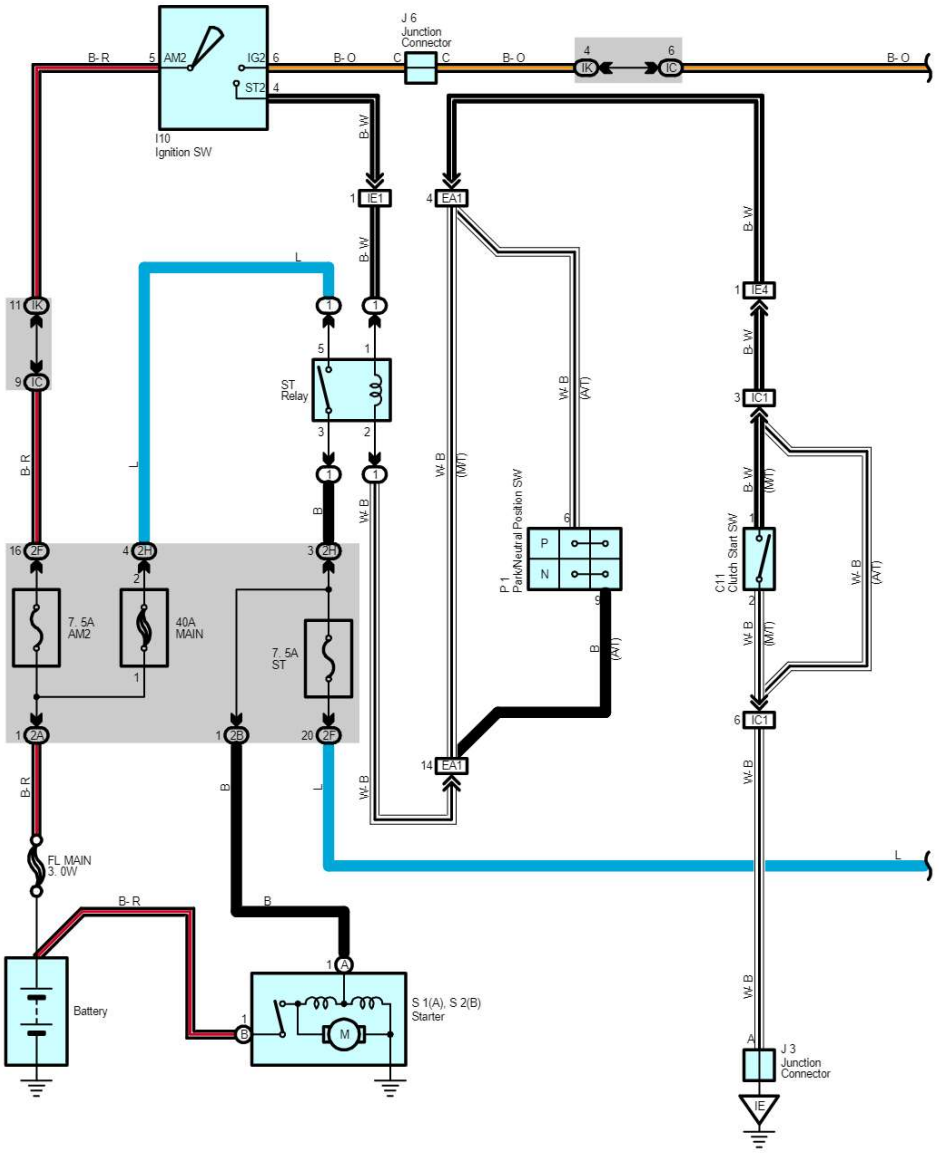
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

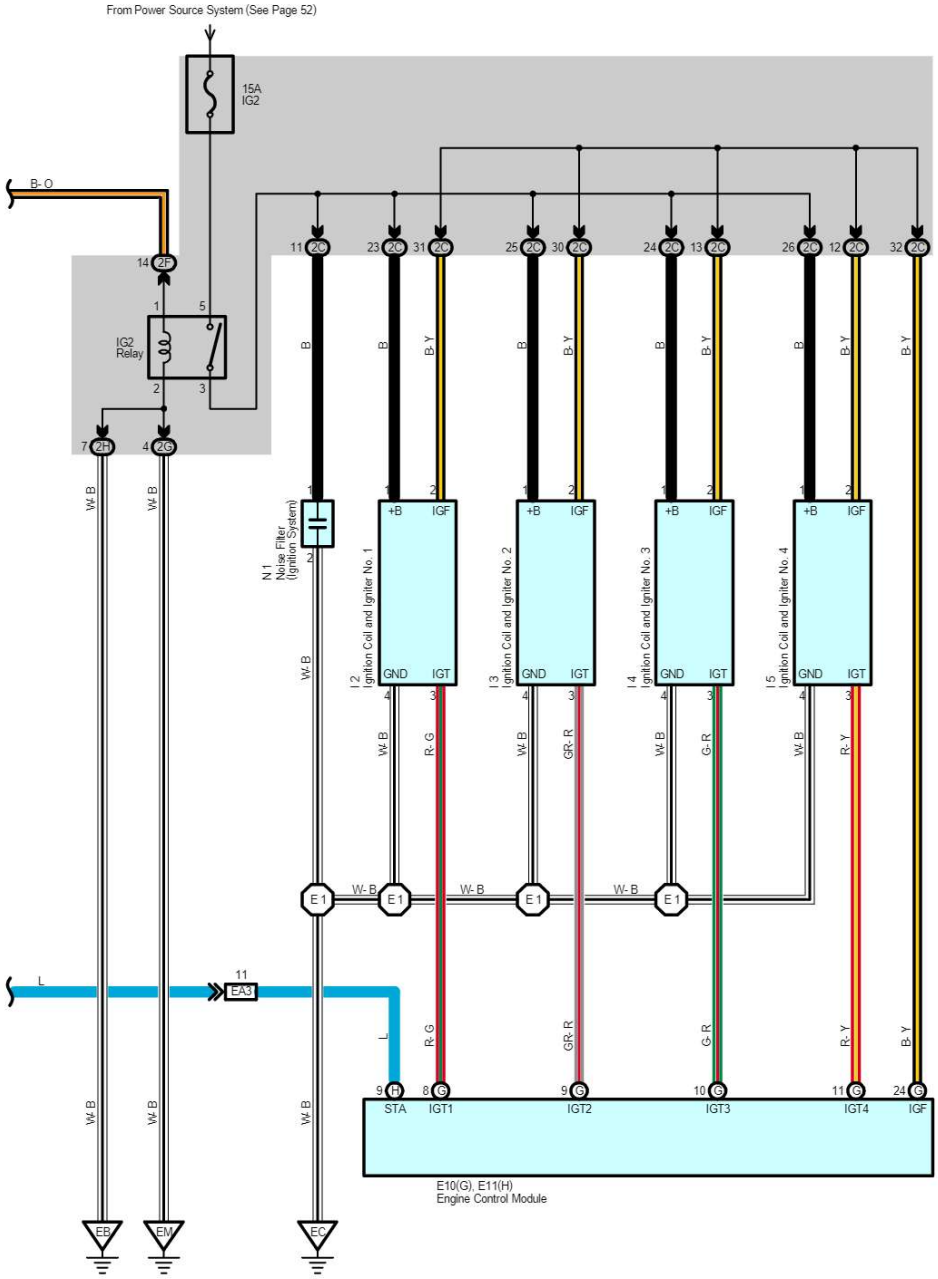
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE1	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE4		

: GROUND POINTS

Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
EC	40 (1ZZ-FE)	Cylinder Head Cover LH
EM	40 (1ZZ-FE)	Front Left Fender
IE	44	Cowl Side Panel LH


J 6
Junction
Connector
B-R
5 AM2
IG2 6
ST2 4
B-O
C
C
B-O
4
6
IK
IC
B-O
I10
Ignition SW
B-W
1 IE1
4 EA1
B-W
1 IE4
B-W
3 IC1
L
11 IK
9 IC
5
1
ST
Relay
3
2
W-B
(M/T)
W-B
(A/T)
B-W
(M/T)
B-R
L
B
W-B
16 2F
4 2H
3 2H
2
7. 5A
AM2
40A
MAIN
7. 5A
ST
1
P 1
Park/Neutral Position SW
P
N
6
B
(A/T)
C11
Clutch Start SW
W-B
(A/T)
W-B
(M/T)
6 IC1
1 2A
1 2B
20 2F
14 EA1
B-R
B
L
W-B
L
FL MAIN
3. 0W
B-R
B
Battery
1 A
1 B
M
S 1(A), S 2(B)
Starter
W-B
A
J 3
Junction
Connector
IE


From Power Source System (See Page 52)
15A
IG2
B-O
IG2
Relay
N1
Noise Filter
(Ignition System)
I2
Ignition Coil and Igniter No. 1
I3
Ignition Coil and Igniter No. 2
I4
Ignition Coil and Igniter No. 3
I5
Ignition Coil and Igniter No. 4
+B
IGF
GND
IGT
W-B
R-G
GR-R
G-R
R-Y
B-Y
L
EA3
STA
IGT1
IGT2
IGT3
IGT4
IGF
E10(G), E11(H)
Engine Control Module
EB
EM
EC

Service Hints

I10 Ignition SW

5-6 : Closed with the ignition SW at ON or ST position
5-4 : Closed with the ignition SW at ST position

C11 Clutch Start SW (M/T)

1-2 : Closed with the clutch pedal fully depressed

ST Relay

5-3 : Closed with the clutch start SW on (M/T), Park/Neutral position SW on (A/T) and the ignition SW at ST position

S1 (A), S2 (B) Starter

Points closed with the clutch start SW on and the ignition SW at ST position (M/T)
Points closed with the Park/Neutral position SW at P or N position and the ignition SW at ST position (A/T)

P1 Park/Neutral Position SW (A/T)

6-9 : Closed with the A/T shift lever at P or N position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C11	36	I4	35 (2ZZ-GE)	N1	35 (2ZZ-GE)
E10 G	34 (2ZZ-GE)	I5	35 (2ZZ-GE)	P1	35 (2ZZ-GE)
E11 H	34 (2ZZ-GE)	I10	37	S1 A	35 (2ZZ-GE)
I2	35 (2ZZ-GE)	J3	37	S2 B	35 (2ZZ-GE)
I3	35 (2ZZ-GE)	J6	37		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

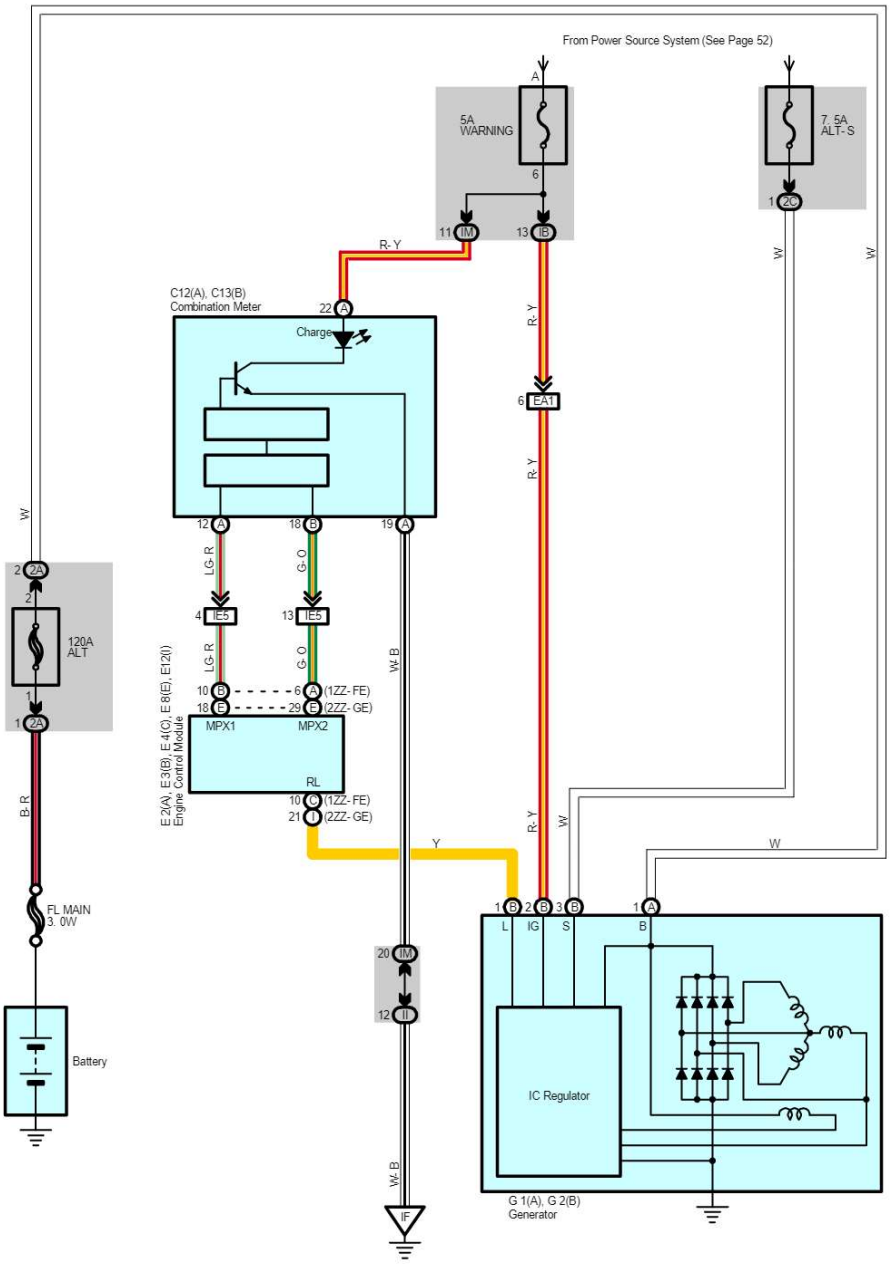
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	42 (2ZZ-GE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA3		
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE1	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE4		

: GROUND POINTS

Code	See Page	Ground Points Location
EB	42 (2ZZ-GE)	Front Left Fender
EC	42 (2ZZ-GE)	Cylinder Head Cover LH
EM	42 (2ZZ-GE)	Front Left Fender
IE	44	Cowl Side Panel LH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	42 (2ZZ-GE)	Engine Room Main Wire			


From Power Source System (See Page 52)
5A WARNING
7. 5A ALT- S
C12(A), C13(B) Combination Meter
Charge
120A ALT
FL MAIN 3. 0W
Battery
E 2(A), E 3(B), E 4(C), E 8(E), E12(I) Engine Control Module
MPX1
MPX2
RL
(1ZZ- FE)
(2ZZ- GE)
IC Regulator
G 1(A), G 2(B) Generator
L
IG
S
B
R- Y
W
W- B
B- R
LG- R
G- O
Y

Service Hints

G2 (B) Generator

(B) 3-Ground : 13.9-15.1 volts with the engine running at 2000 rpm and 25°C (77°F)
13.5-14.3 volts with the engine running at 5000 rpm and 115°C (239°F)

(B) 1-Ground : 0-4 volts with the ignition SW at ON position and the engine not running

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
C12	A	36	E4	C	32 (1ZZ-FE)	G1	A	34 (2ZZ-GE)
C13	B	36	E8	E	34 (2ZZ-GE)	G2	B	32 (1ZZ-FE)
E2	A	32 (1ZZ-FE)	E12	I	34 (2ZZ-GE)			34 (2ZZ-GE)
E3	B	32 (1ZZ-FE)	G1	A	32 (1ZZ-FE)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

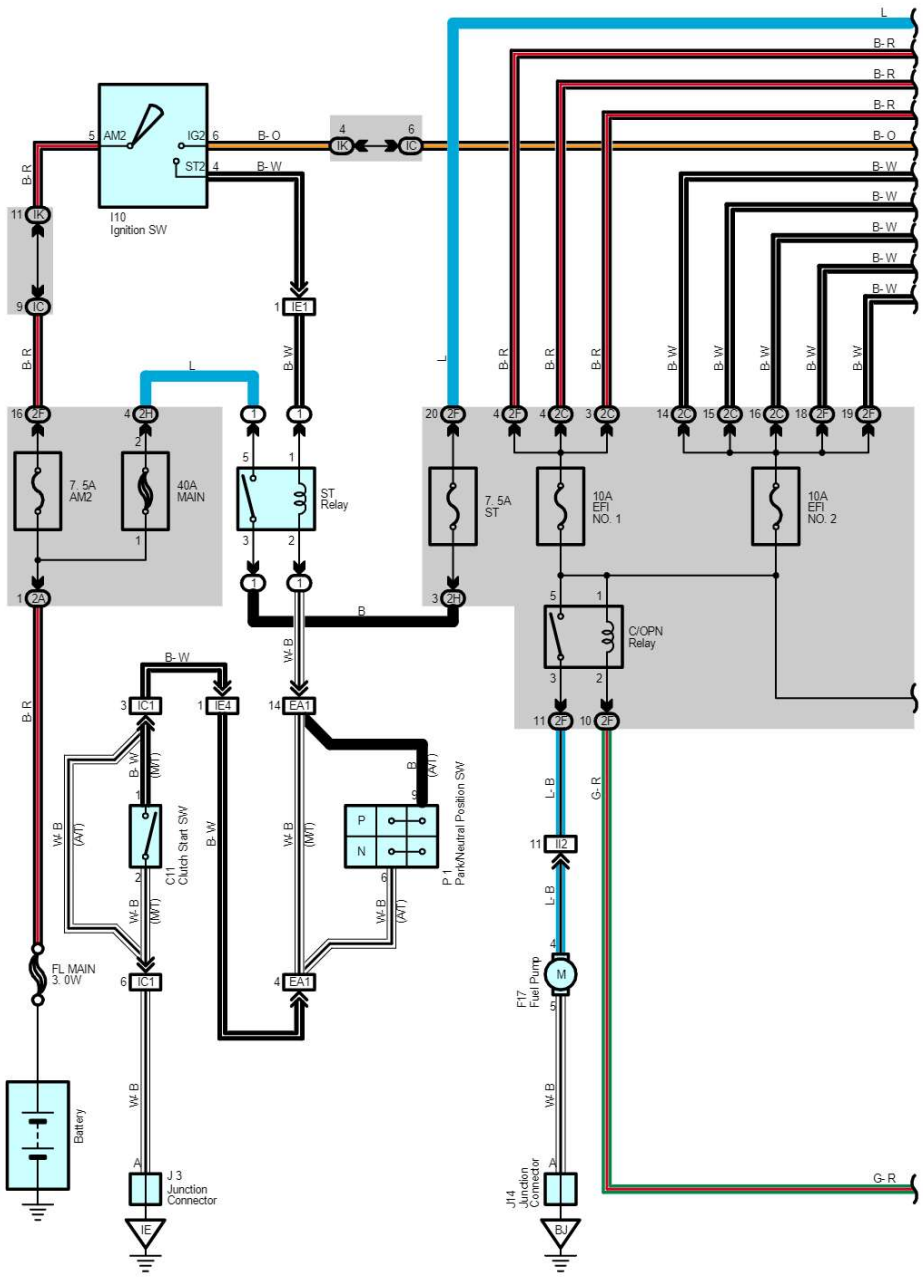
Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2C		

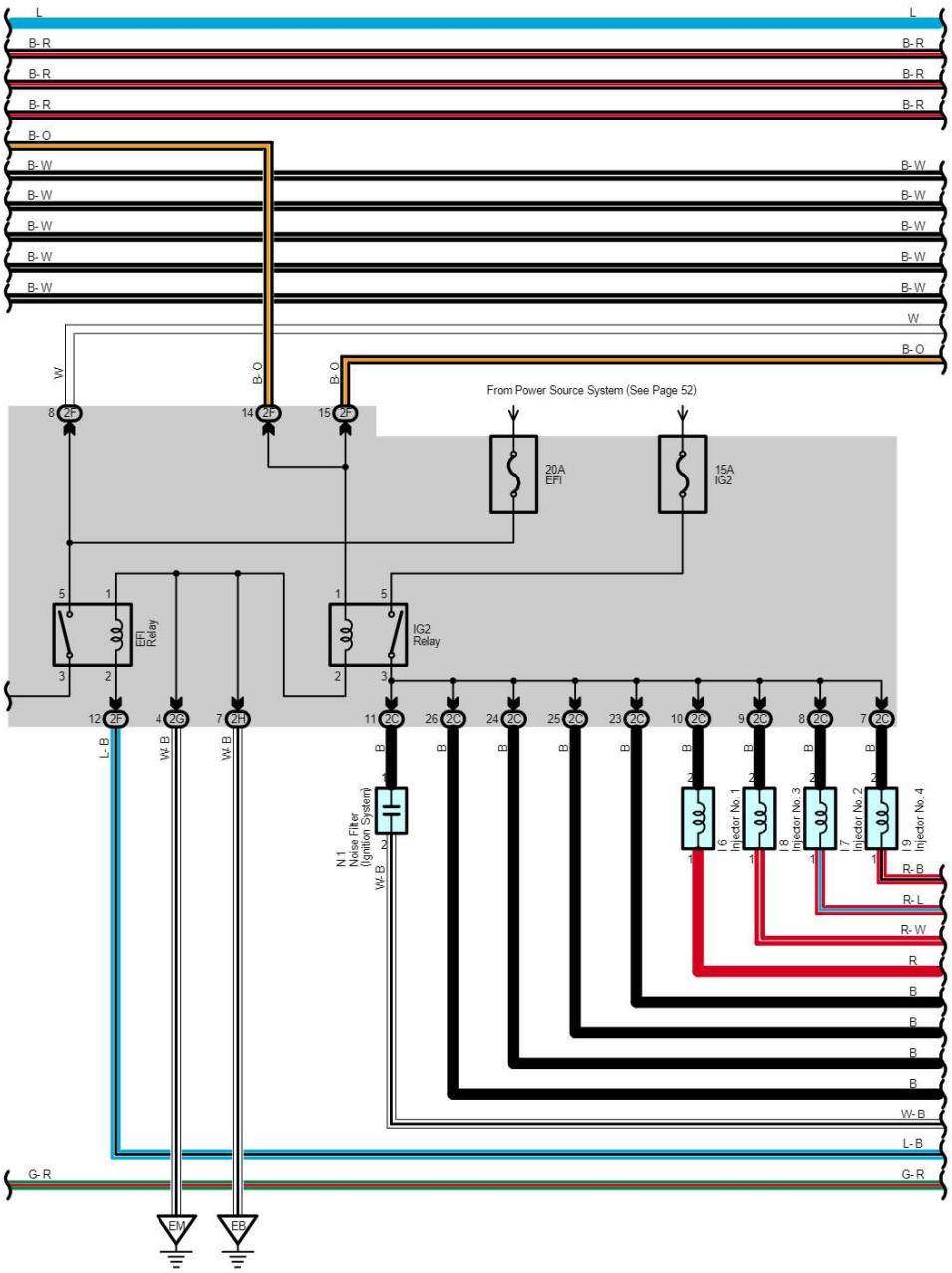
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

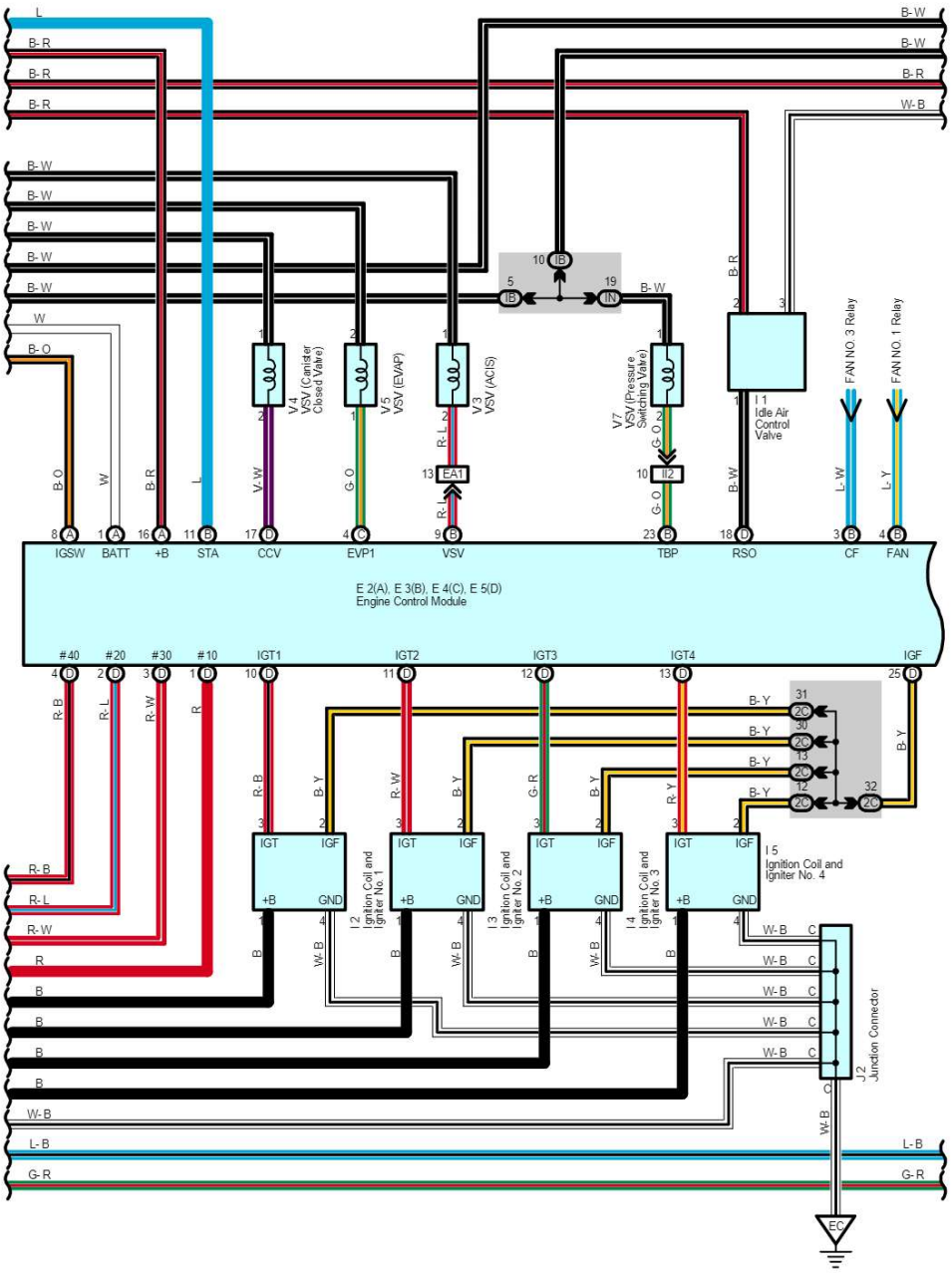
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	42 (2ZZ-GE)	
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

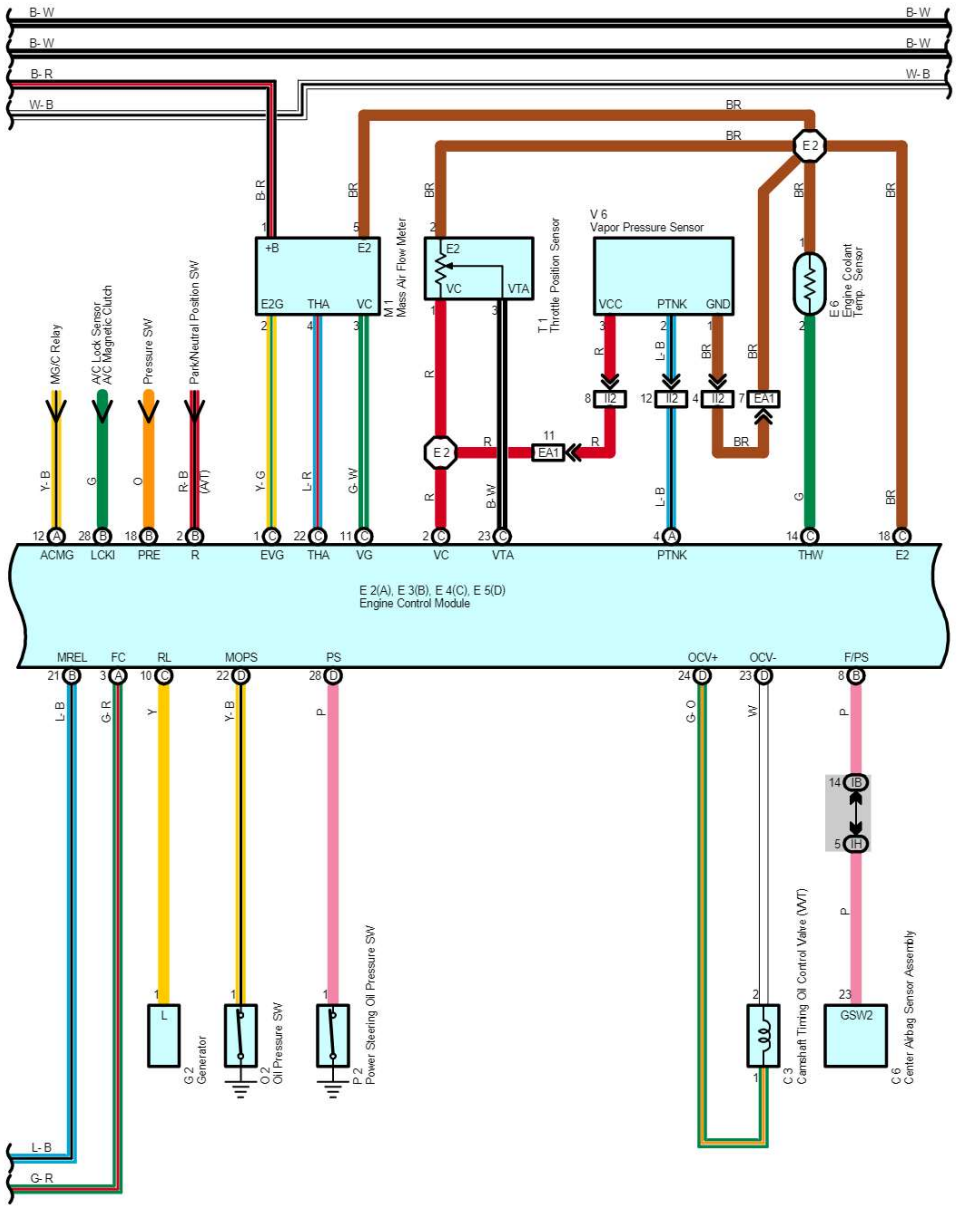
▽ : GROUND POINTS

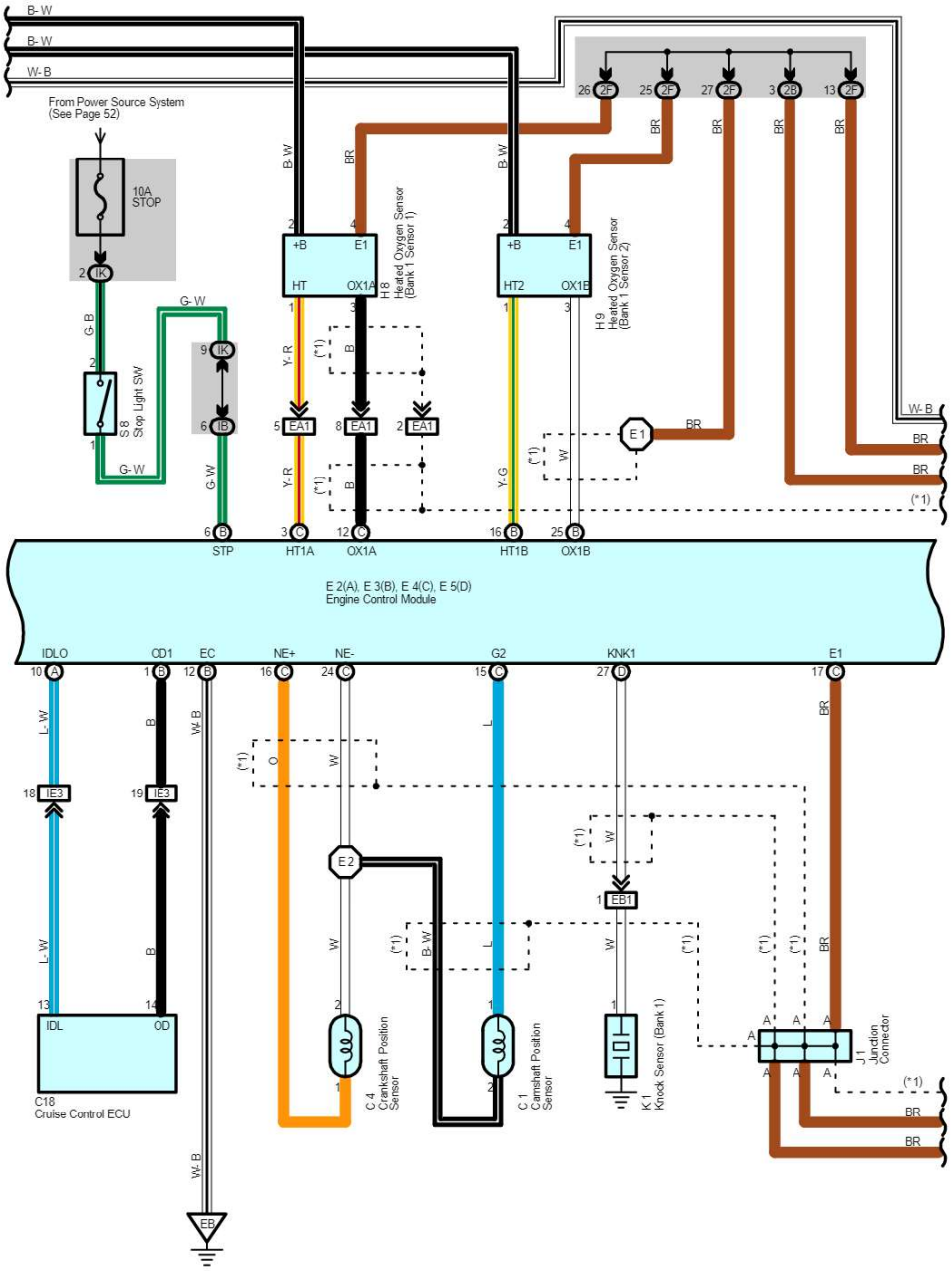
Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH

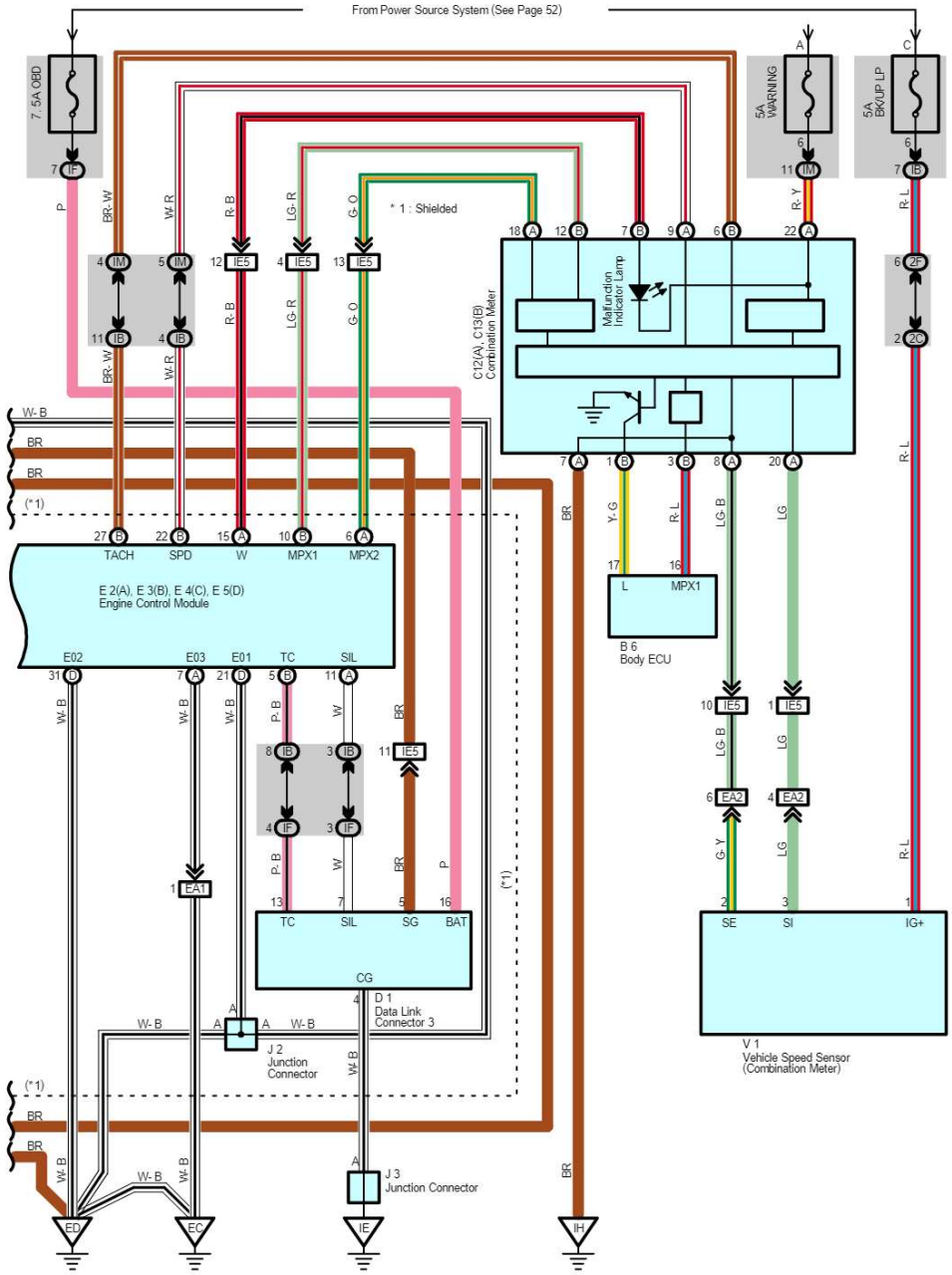

I10
Ignition SW
AM2
IG2
ST2
IK
IC
IE1
7.5A
AM2
40A
MAIN
ST
Relay
7.5A
ST
10A
EFI
NO. 1
10A
EFI
NO. 2
C/OPN
Relay
IC1
IE4
EA1
C11
Clutch Start SW
P
N
P1
Park/Neutral Position SW
FL MAIN
3.0W
Battery
J3
Junction
Connector
IE
F17
Fuel Pump
II2
J14
Junction
Connector
BJ
B-R
B-W
B-O
L
W-B
L-B
G-R
B
(MT)
(AT)


L
B-R
B-R
B-R
B-O
B-W
B-W
B-W
B-W
B-W
W
B-O
From Power Source System (See Page 52)
20A
EFI
15A
IG2
EFI
Relay
IG2
Relay
L-B
W-B
W-B
B
N-1
Noise Filter
(Ignition System)
W-B
I-6
Injector No. 1
I-8
Injector No. 3
I-7
Injector No. 2
I-9
Injector No. 4
R-B
R-L
R-W
R
B
B
B
B
W-B
L-B
G-R
G-R
EM
EB


V4 VSV (Canister Closed Valve)
V5 VSV (EVAP)
V3 VSV (ACIS)
V7 VSV (Pressure Switching Valve)
I 1 Idle Air Control Valve
FAN NO. 3 Relay
FAN NO. 1 Relay
IGSW
BATT
+B
STA
CCV
EVP1
VSV
TBP
RSO
CF
FAN
E 2(A), E 3(B), E 4(C), E 5(D) Engine Control Module
#40
#20
#30
#10
IGT1
IGT2
IGT3
IGT4
IGF
I 2 Ignition Coil and Igniter No. 1
I 3 Ignition Coil and Igniter No. 2
I 4 Ignition Coil and Igniter No. 3
I 5 Ignition Coil and Igniter No. 4
J 2 Junction Connector
EC


B-W
B-W
B-R
W-B
BR
E2
+B
E2G
THA
VC
E2
VC
VTA
VCC
PTNK
GND
M1
Mass Air Flow Meter
T1
Throttle Position Sensor
V6
Vapor Pressure Sensor
E6
Engine Coolant Temp. Sensor
M/G/C Relay
A/C Lock Sensor
A/C Magnetic Clutch
Pressure SW
Park/Neutral Position SW (A/T)
EAT
ACMG
LCKI
PRE
R
EVG
THA
VG
VC
VTA
PTNK
THW
E2
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
MREL
FC
RL
MOPS
PS
OCV+
OCV-
F/PS
G2
Generator
O2
Oil Pressure SW
P2
Power Steering Oil Pressure SW
C3
Camshaft Timing Oil Control Valve (VVT)
C6
Center Airbag Sensor Assembly
GSW2


B-W
B-W
W-B
From Power Source System
(See Page 52)
10A
STOP
G-B
G-W
S8
Stop Light SW
H8
Heated Oxygen Sensor
(Bank 1 Sensor 1)
H9
Heated Oxygen Sensor
(Bank 1 Sensor 2)
+B
E1
HT
OX1A
HT2
OX1B
Y-R
Y-G
B-W
BR
W-B
(*1)
E1
EA1
STP
HT1A
OX1A
HT1B
OX1B
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
IDLO
OD1
EC
NE+
NE-
G2
KNK1
E1
L-W
B
W-B
O
W
L
IE3
E2
EB1
IDL
OD
C18
Cruise Control ECU
C 4
Crankshaft Position
Sensor
C 1
Camshaft Position
Sensor
K1
Knock Sensor (Bank 1)
J1
Junction
Connector
EB


From Power Source System (See Page 52)
7.5A OBD
5A WARNING
5A BK/UP LP
* 1 : Shielded
C12(A), C13(B) Combination Meter
Malfunction Indicator Lamp
E 2(A), E 3(B), E 4(C), E 5(D) Engine Control Module
TACH
SPD
W
MPX1
MPX2
B 6 Body ECU
L
MPX1
D 1 Data Link Connector 3
J 2 Junction Connector
J 3 Junction Connector
V 1 Vehicle Speed Sensor (Combination Meter)
SE
SI
IG+
TC
SIL
SG
BAT
CG
E02
E03
E01
TC
SIL
W-B
BR
BR-W
W-R
R-B
LG-R
G-O
R-Y
R-L
P
P-B
LG-B
LG
G-Y
Y-G
(*1)

System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit
The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance which varies according to the 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 (Bank 1 sensor 1, bank 1 sensor 2) to TERMINALS OX1A, OX1B of the engine control module.
To stabilize detection performance by the heated oxygen sensors, the heated oxygen sensors are warmed. This heater is also controlled by the engine control module (HT1A, HT1B).

(4) RPM signal circuit
Camshaft position is detected by the camshaft position sensor and its signal is input to TERMINAL G2 of the engine control module as a control signal. 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 signal circuit
The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINAL VTA of the engine control module.

(6) Vehicle speed circuit
The vehicle speed sensor, installed inside the transmission, detects the vehicle speed and inputs a control signal into TERMINAL SPD of the engine control module.

(7) A/C SW signal circuit
The operating voltage of the A/C magnetic clutch is detected and the signal is input into TERMINAL ACMG of the engine control module as a control signal.

(8) Battery signal circuit
Voltage is constantly applied to TERMINAL BATT of the engine control module. With the ignition SW turned on, Voltage for engine control module start-up power supply is applied to TERMINAL +B of the engine control module via the EFI relay.

(9) 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.

(10) Stop light SW signal circuit
The stop light SW is used to detect whether or not the vehicle is braking and the signal is input into TERMINAL STP of the engine control module as a control signal.

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

(12) Engine knock signal circuit
Engine knocking is detected by knock sensor (Bank 1) and the signal is input into TERMINAL KNK1 as a control signal.

2. Control System

- SFI system
  The SFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (12) etc.) to the engine control module. The best fuel injection timing is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector (Inject the fuel). The sequential multiport fuel injection (Electronic fuel injection) 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 (Input signals from (1), (2), (4) to (12) etc.). 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.
- Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the heated oxygen sensors (Bank 1 sensor 1, bank 1 sensor 2) to improve detection performance of the sensors.
  The engine control module evaluates the signals from each sensor (Input signals from (1), (2), (4), (8) to (10) etc.), and outputs current to TERMINALS HT1A, HT1B to control the heater.
- ACIS
  ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.
  The engine control module judges the engine speed by the signals ((4), (5)) from each sensor and outputs signals to the TERMINAL VSV to control the VSV (ACIS).
- MPX
  The MPX communicates with the combination meter, as well as body ECU of the multiplex communication system

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.

Service Hints

E2 (A), E3 (B), E4 (C), E5 (D) Engine Control Module

BATT-E1 : Always 9.0-14.0 volts
+B-E1 : 9.0-14.0 volts (Ignition SW at ON position)
VC-E2 : 4.5-5.5 volts (Ignition SW at ON position)
VTA-E2 : 0.3-0.8 volts (Ignition SW ON and throttle valve fully closed)
3.2-4.9 volts (Ignition SW ON and throttle valve open)
THA-E2 : 0.5-3.4 volts (Ignition SW ON and intake air temp. 20°C, 68°F)
THW-E2 : 0.2-1.0 volts (Ignition SW ON and coolant temp. 80°C, 176°F)
STA-E1 : 6.0-14.0 volts (Engine cranking)
W-E1 : 9.0-14.0 volts (No trouble and engine running)
STP-E1 : 9.0-14.0 volts (Brake pedal depress)
IGT1, IGT2, IGT3, IGT4-E1 : 0.8-1.2 volts (Engine cranking or idling)
#10, #20, #30, #40-E01, E02 : 9.0-14.0 volts (Ignition SW at ON position)

Resistance of ECU Wiring Connectors

(Disconnect wiring connector)
VTA-E2 : 3.3-10.0 kΩ (Throttle valve fully open)
0.2-0.8 kΩ (Throttle valve fully closed)
VC-E2 : 3.0-7.0 kΩ
THA-E2 : 2.0-3.0 kΩ (Intake air temp. 20°C, 68°F)
THW-E2 : 0.2-0.4 kΩ (Coolant temp. 80°C, 176°F)

C/OPN Relay

5-3 : Closed with the starter cranking and engine running

EFI Relay

3-5 : Closed with the ignition SW at ON or ST position

E6 Engine Coolant Temp. Sensor

1-2 : 10.0-20.0 kΩ (-20°C, -4°F)
4.0-7.0 k Ω (0°C, 32°F)
2.0-3.0 kΩ (20°C, 68°F)
0.9-1.3 kΩ (40°C, 104°F)
0.4-0.7 kΩ (60°C, 140°F)
0.2-0.4 kΩ (80°C, 176°F)

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6	36	G2	32 (1ZZ-FE)	J14	38
C1	32 (1ZZ-FE)	H8	37	K1	33 (1ZZ-FE)
C3	32 (1ZZ-FE)	H9	37	M1	33 (1ZZ-FE)
C4	32 (1ZZ-FE)	I1	33 (1ZZ-FE)	N1	33 (1ZZ-FE)
C6	36	I2	33 (1ZZ-FE)	O2	33 (1ZZ-FE)
C11	36	I3	33 (1ZZ-FE)	P1	33 (1ZZ-FE)
C12 A	36	I4	33 (1ZZ-FE)	P2	33 (1ZZ-FE)
C13 B	36	I5	33 (1ZZ-FE)	S8	37
C18	36	I6	33 (1ZZ-FE)	T1	33 (1ZZ-FE)
D1	36	I7	33 (1ZZ-FE)	V1	33 (1ZZ-FE)
E2 A	32 (1ZZ-FE)	I8	33 (1ZZ-FE)	V3	33 (1ZZ-FE)
E3 B	32 (1ZZ-FE)	I9	33 (1ZZ-FE)	V4	33 (1ZZ-FE)
E4 C	32 (1ZZ-FE)	I10	37	V5	33 (1ZZ-FE)
E5 D	32 (1ZZ-FE)	J1	33 (1ZZ-FE)	V6	39
E6	32 (1ZZ-FE)	J2	33 (1ZZ-FE)	V7	39
F17	38	J3	37		

⬭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IH		
IK		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

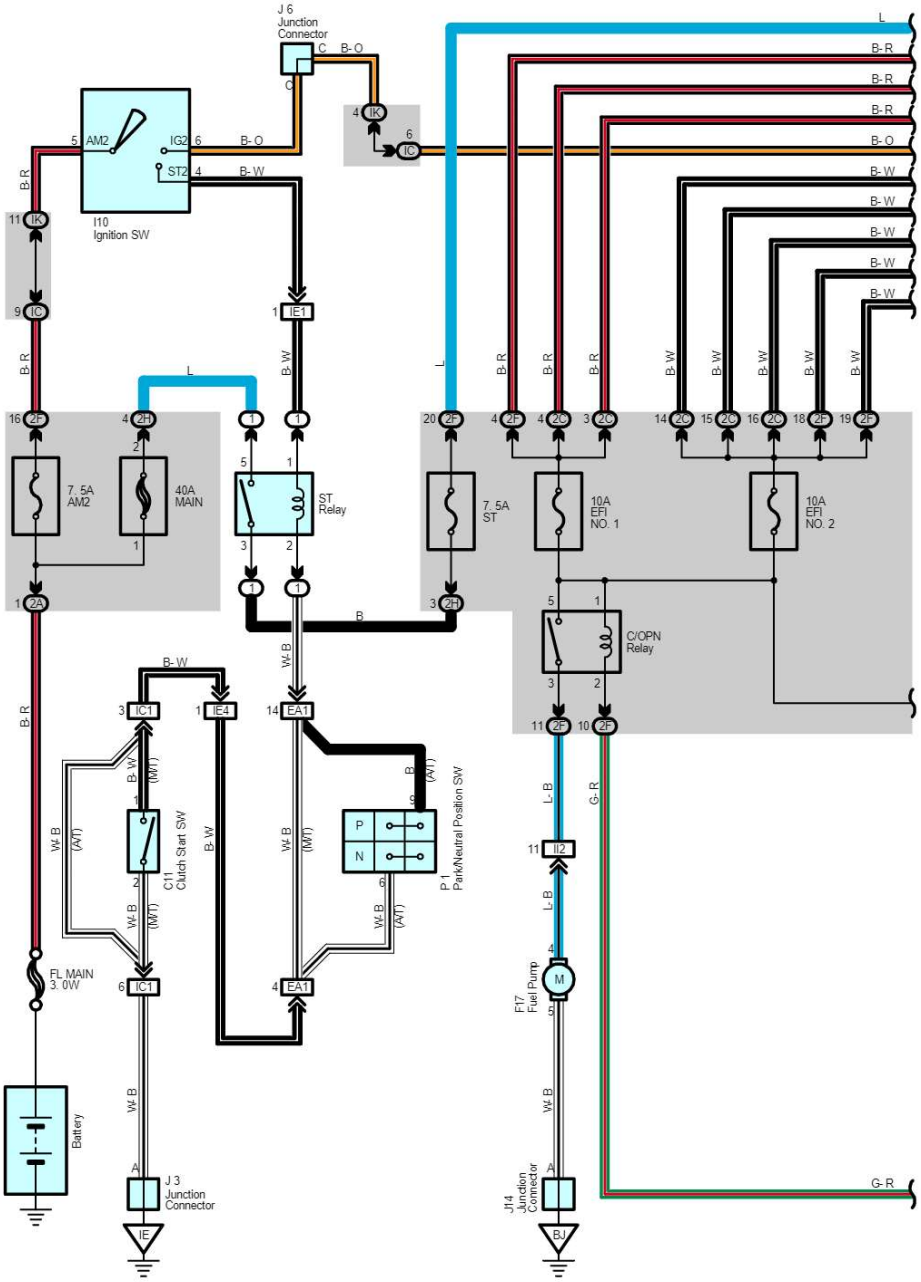
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA2		
EB1	40 (1ZZ-FE)	Engine No.4 Wire and Engine Wire (Under the Intake Manifold)
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE1	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE3		
IE4		
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

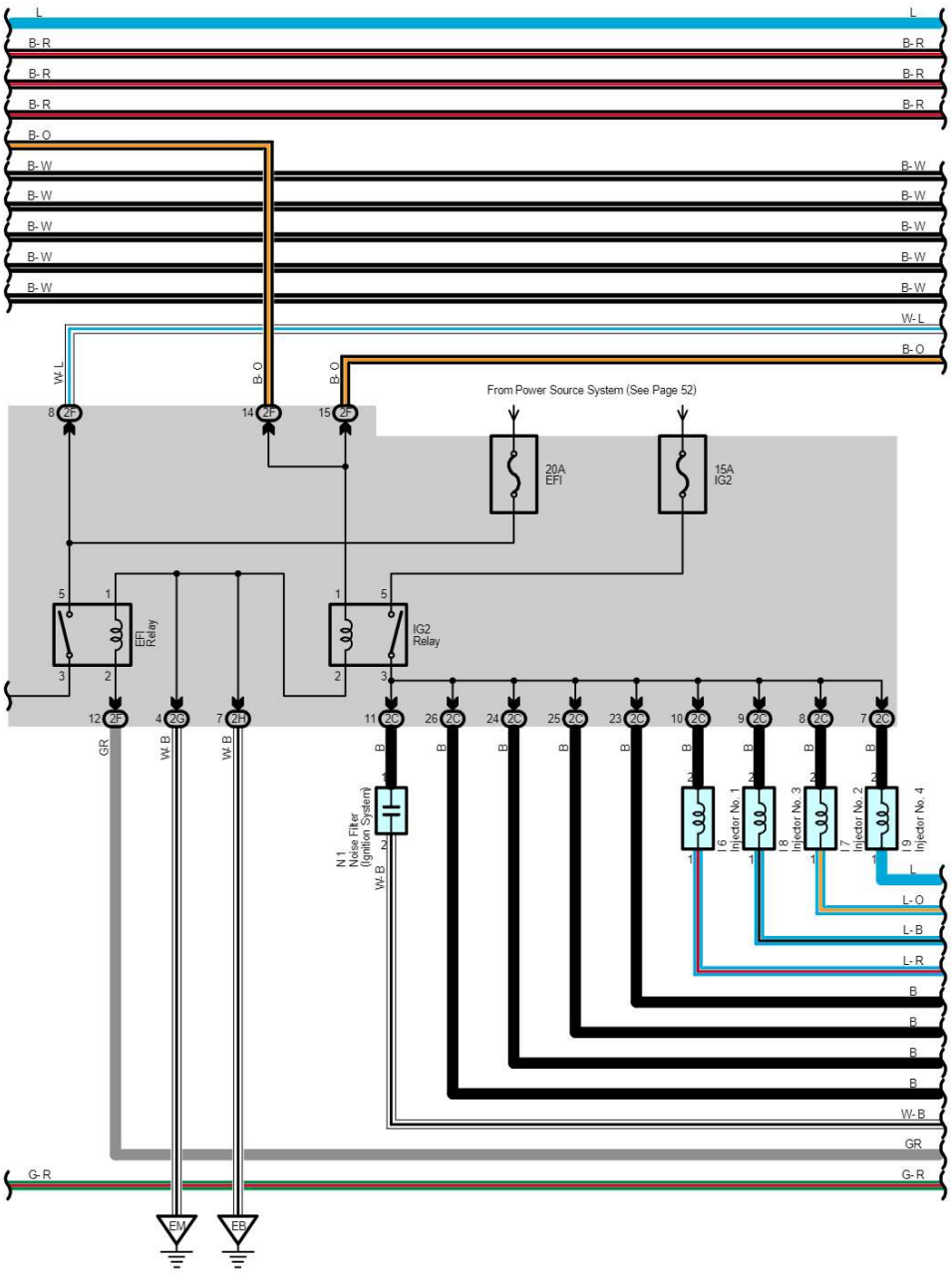
: GROUND POINTS

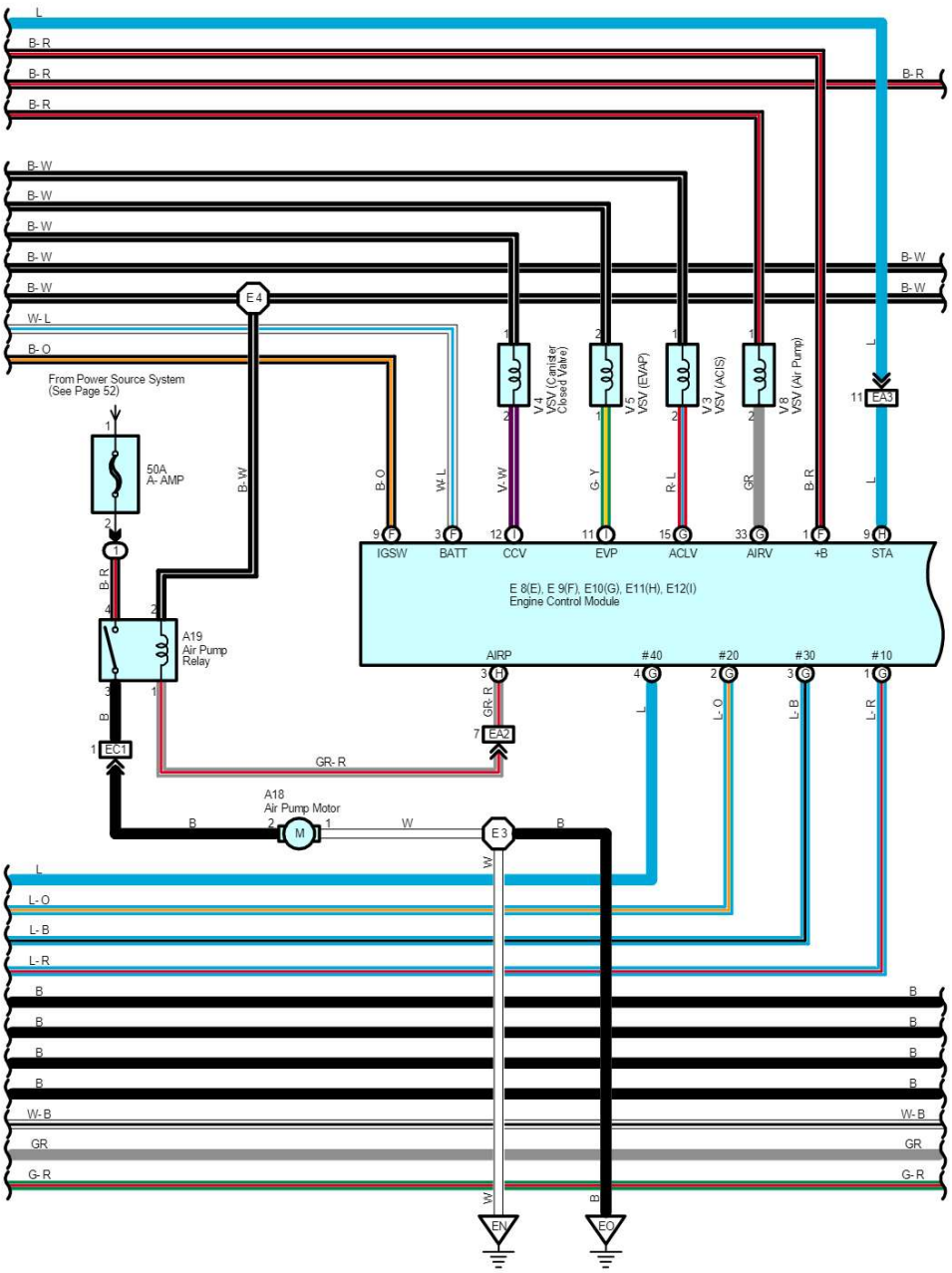
Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
EC	40 (1ZZ-FE)	Cylinder Head Cover LH
ED		
EM	40 (1ZZ-FE)	Front Left Fender
IE	44	Cowl Side Panel LH
IH	44	Cowl Side Panel RH
BJ	48	Luggage Room Left

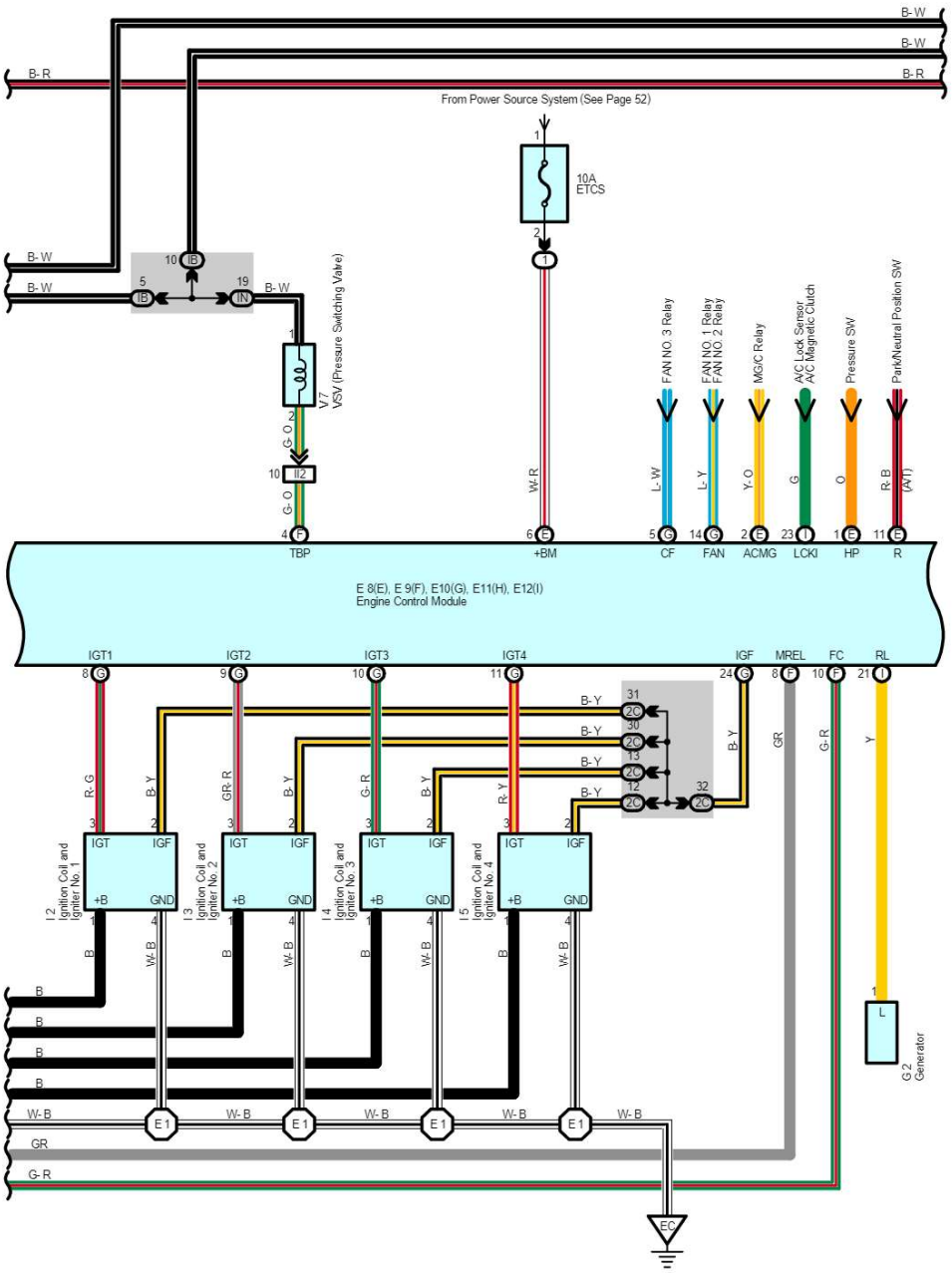
: SPLICE POINTS

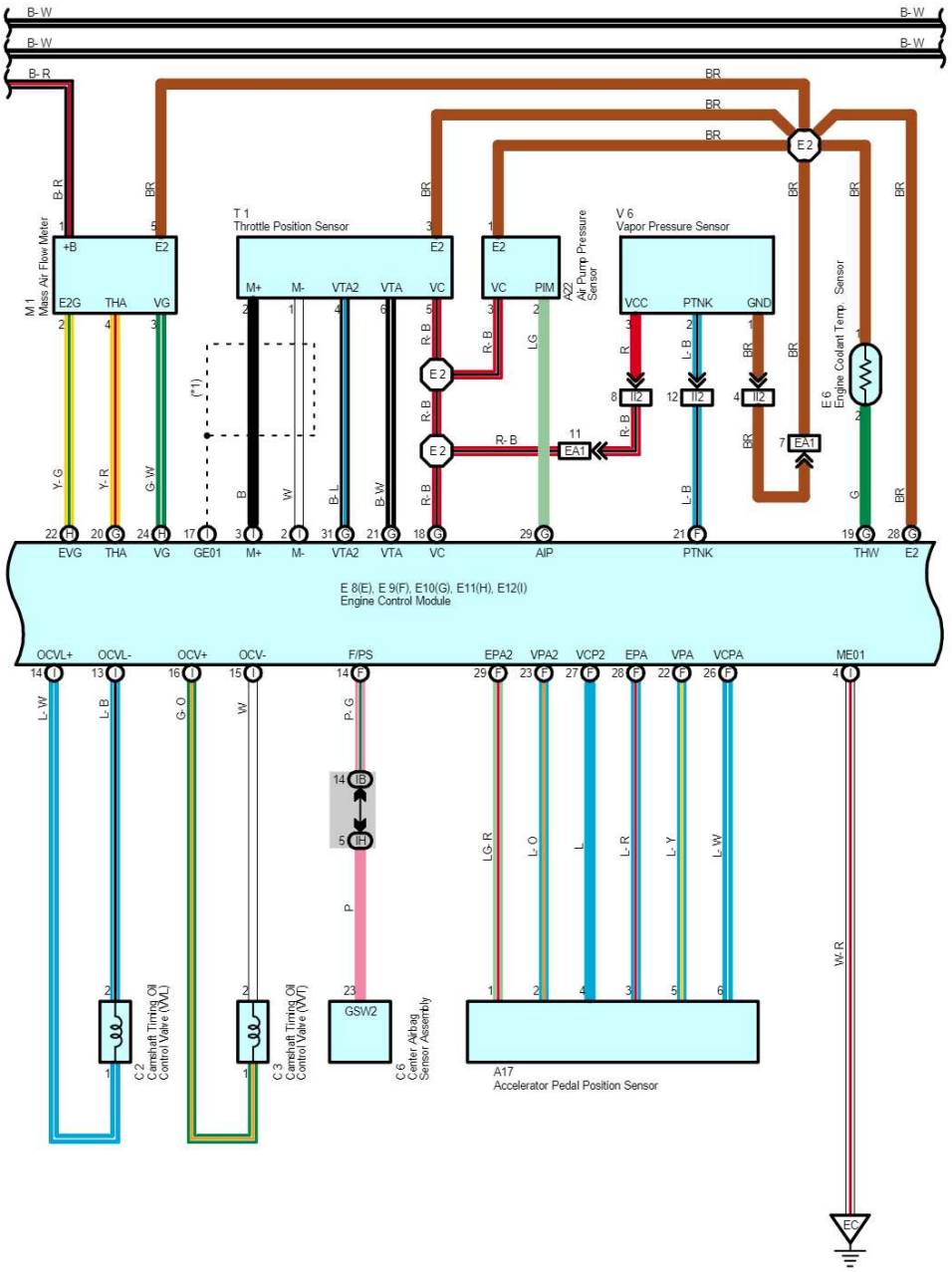
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	E2	40 (1ZZ-FE)	Engine Wire

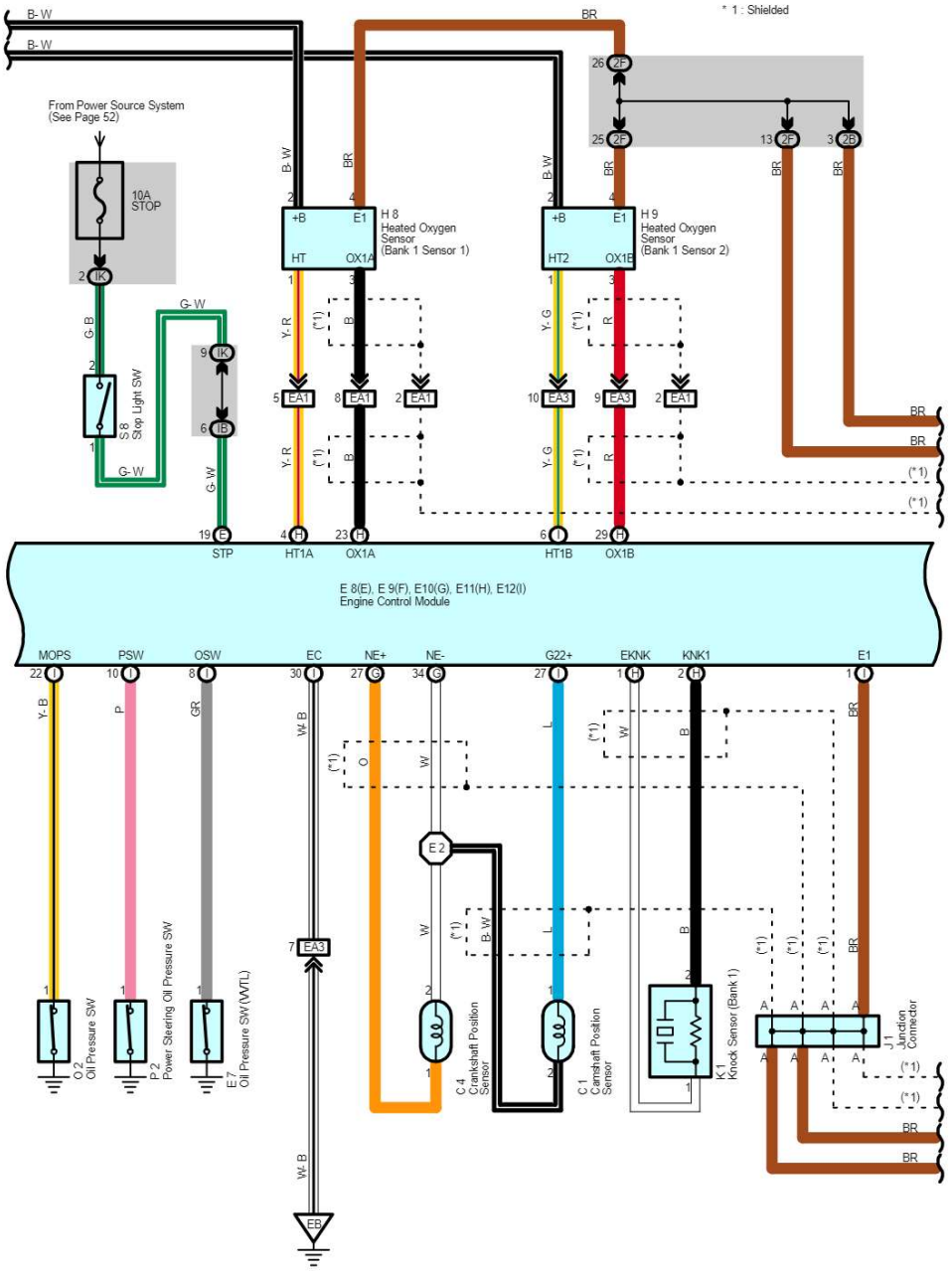

J 6
Junction
Connector
I10
Ignition SW
AM2
IG2
ST2
7. 5A
AM2
40A
MAIN
ST
Relay
7. 5A
ST
10A
EFI
NO. 1
10A
EFI
NO. 2
C/OPN
Relay
C11
Clutch Start SW
P 1
Park/Neutral Position SW
FL MAIN
3. 0W
Battery
J 3
Junction
Connector
F17
Fuel Pump
J14
Junction
Connector

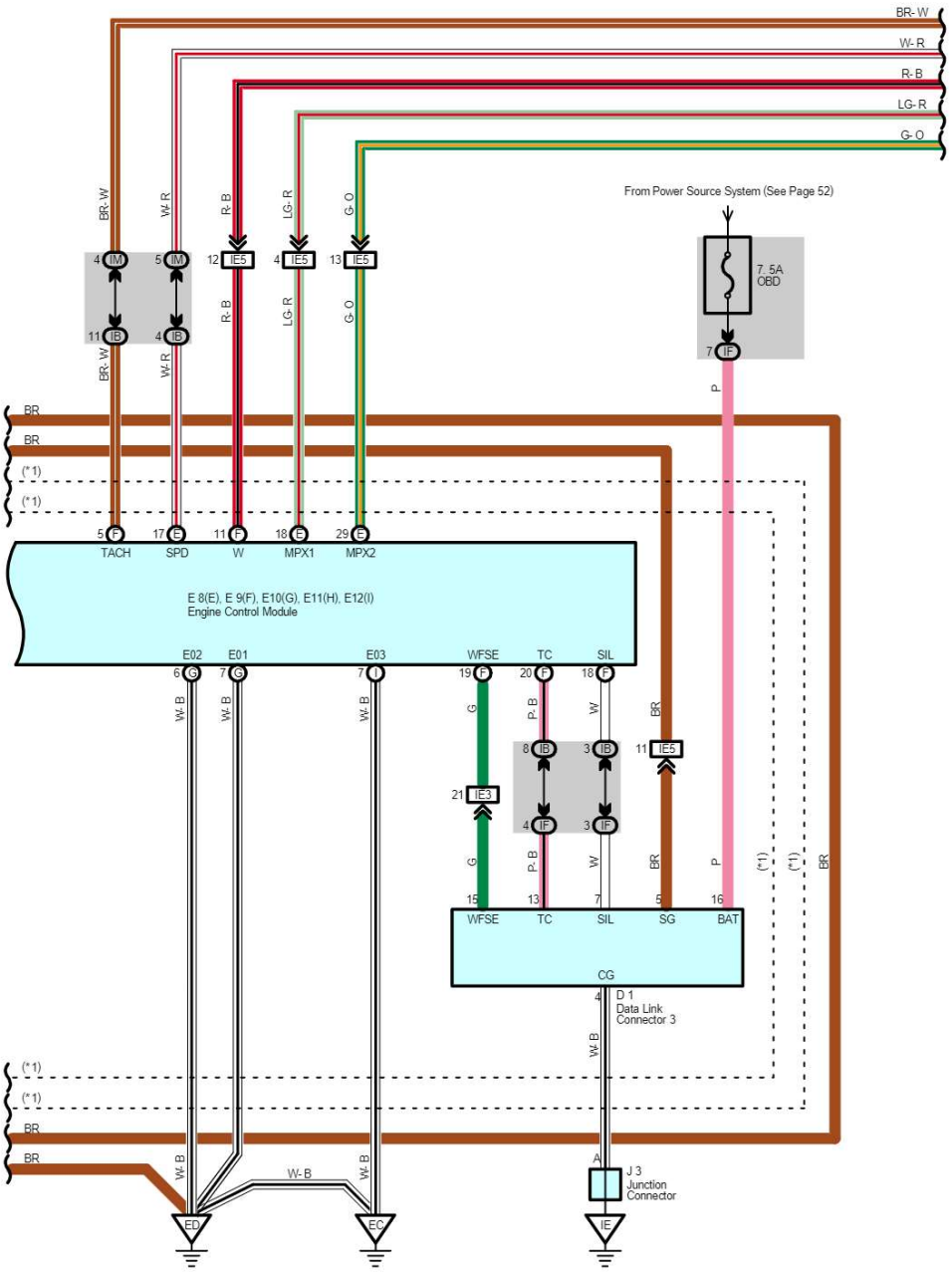

L
B-R
B-R
B-R
B-O
B-W
B-W
B-W
B-W
B-W
W-L
B-O
From Power Source System (See Page 52)
20A
EFI
15A
IG2
EFI
Relay
IG2
Relay
GR
W-B
W-B
N1
Noise Filter
(Ignition System)
W-B
I6
Injector No. 1
I8
Injector No. 3
I7
Injector No. 2
I9
Injector No. 4
L
L-O
L-B
L-R
B
B
B
B
W-B
GR
G-R
EM
EB

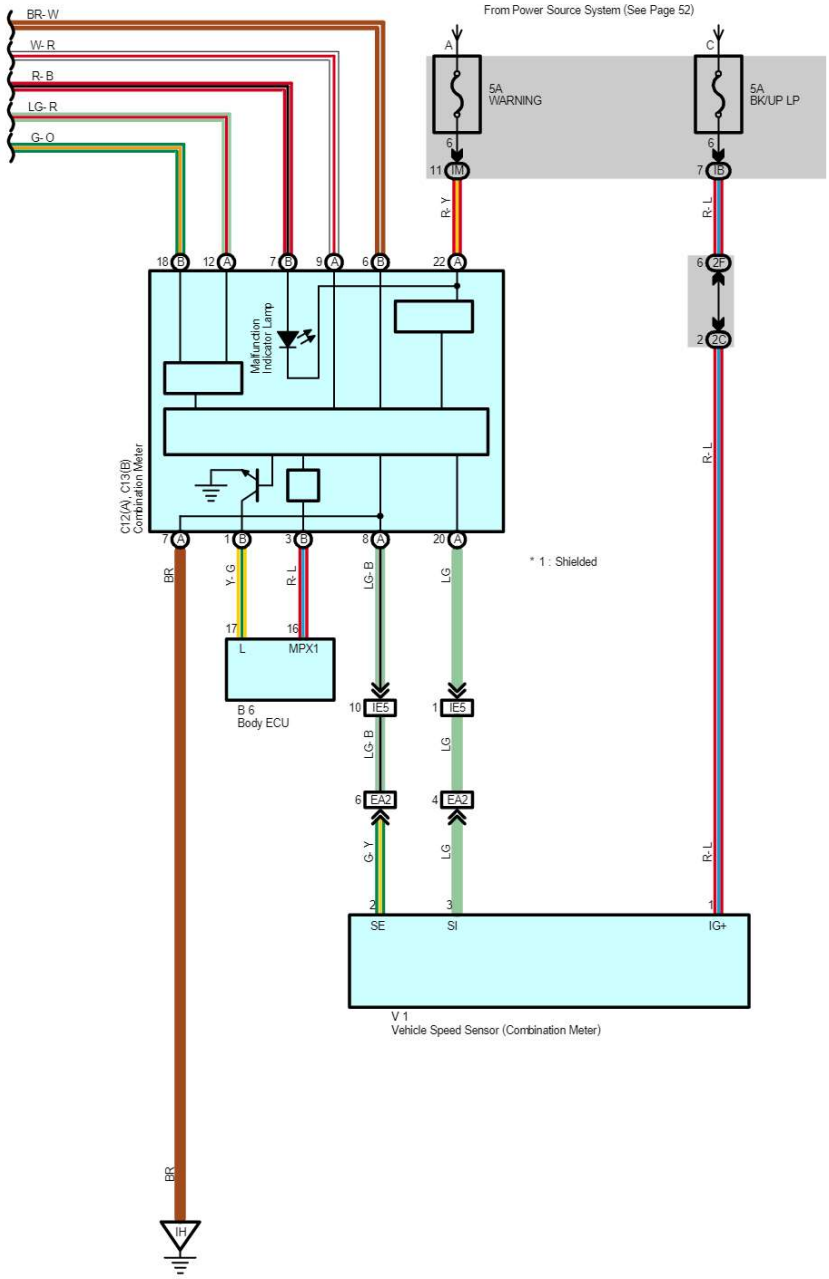

L
B-R
B-R
B-R
B-R
B-W
B-W
B-W
B-W
B-W
B-W
W-L
B-O
E4
From Power Source System
(See Page 52)
50A
A-AMP
B-W
B-O
W-L
V-W
G-Y
R-L
GR
B-R
L
V4
VSV (Canister
Closed Valve)
V5
VSV (EVAP)
V3
VSV (ACIS)
V8
VSV (Air Pump)
11 EA3
IGSW
BATT
CCV
EVP
ACLV
AIRV
+B
STA
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
A19
Air Pump
Relay
AIRP
#40
#20
#30
#10
GR-R
7 EA2
L
L-O
L-B
L-R
B
1 EC1
GR-R
A18
Air Pump Motor
M
W
E3
L
L-O
L-B
L-R
B
B
B
B
B
W-B
GR
G-R
EN
EO


B-W
B-W
B-R
B-R
From Power Source System (See Page 52)
10A
ETCS
B-W
B-W
B-W
V7
VSV (Pressure Switching Valve)
G-O
G-O
W-R
FAN NO. 3 Relay
FAN NO. 1 Relay
FAN NO. 2 Relay
MG/C Relay
A/C Lock Sensor
A/C Magnetic Clutch
Pressure SW
Park/Neutral Position SW
L-W
L-Y
Y-O
G
O
R-B
(A/T)
TBP
+BM
CF
FAN
ACMG
LCKI
HP
R
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
IGT1
IGT2
IGT3
IGT4
IGF
MREL
FC
RL
R-G
B-Y
GR-R
G-R
R-Y
GR
G-R
Y
IGT
IGF
+B
GND
I2
Ignition Coil and Igniter No.1
I3
Ignition Coil and Igniter No.2
I4
Ignition Coil and Igniter No.3
I5
Ignition Coil and Igniter No.4
B
W-B
E1
G2
Generator
GR
G-R
EC


B-W
B-R
BR
E2
M1
Mass Air Flow Meter
+B
E2G
THA
VG
T1
Throttle Position Sensor
M+
M-
VTA2
VTA
VC
A22
Air Pump Pressure Sensor
PIM
V6
Vapor Pressure Sensor
VCC
PTNK
GND
E6
Engine Coolant Temp. Sensor
(*1)
EA1
II2
EVG
GE01
AIP
THW
E8(E), E9(F), E10(G), E11(H), E12(I)
Engine Control Module
OCVL+
OCVL-
OCV+
OCV-
F/PS
EPA2
VPA2
VCP2
EPA
VPA
VCPA
ME01
C2
Camshaft Timing Oil Control Valve (WL)
C3
Camshaft Timing Oil Control Valve (WT)
GSW2
C6
Center Airbag Sensor Assembly
A17
Accelerator Pedal Position Sensor
EC


* 1 : Shielded
From Power Source System
(See Page 52)
10A
STOP
H 8
Heated Oxygen
Sensor
(Bank 1 Sensor 1)
H 9
Heated Oxygen
Sensor
(Bank 1 Sensor 2)
S 8
Stop Light SW
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
MOPS
PSW
OSW
EC
NE+
NE-
G22+
EKNK
KNK1
E1
O 2
Oil Pressure SW
P 2
Power Steering Oil Pressure SW
E 7
Oil Pressure SW (W/TL)
E 2
C 4
Crankshaft Position
Sensor
C 1
Camshaft Position
Sensor
K 1
Knock Sensor (Bank 1)
J 1
Junction
Connector
STP
HT1A
OX1A
HT1B
OX1B
EB


BR-W
W-R
R-B
LG-R
G-O
From Power Source System (See Page 52)
7.5A
OBD
TACH
SPD
W
MPX1
MPX2
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
WFSE
TC
SIL
SG
BAT
CG
D 1
Data Link
Connector 3
J 3
Junction
Connector
W-B
BR
P
G
P-B
W
(*1)


From Power Source System (See Page 52)
BR-W
W-R
R-B
LG-R
G-O
5A
WARNING
5A
BK/UP LP
Malfunction
Indicator Lamp
C12(A), C13(B)
Combination Meter
* 1 : Shielded
B 6
Body ECU
MPX1
V 1
Vehicle Speed Sensor (Combination Meter)
SE
SI
IG+
IH

System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit
The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance which varies according to the 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 (Bank 1 sensor 1, bank 1 sensor 2) to TERMINALS OX1A, OX1B of the engine control module.
To stabilize detection performance by the heated oxygen sensors, the heated oxygen sensors are warmed. This heater is also controlled by the engine control module (HT1A, HT1B).

(4) RPM signal circuit
Camshaft position is detected by the camshaft position sensor and its signal is input to TERMINAL G2 of the engine control module as a control signal. 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 signal circuit
The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA, VTA2 of the engine control module.

(6) Vehicle speed circuit
The vehicle speed sensor, installed inside the transmission, detects the vehicle speed and inputs a control signal into TERMINAL SPD of the engine control module.

(7) A/C SW signal circuit
The operating voltage of the A/C magnetic clutch is detected and the signal is input into TERMINAL ACMG of the engine control module as a control signal.

(8) Battery signal circuit
Voltage is constantly applied to TERMINAL BATT of the engine control module. With the ignition SW turned on, Voltage for engine control module start-up power supply is applied to TERMINAL +B of the engine control module via the EFI relay.

(9) 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.

(10) Stop light SW signal circuit
The stop light SW is used to detect whether or not the vehicle is braking and the signal is input into TERMINAL STP of the engine control module as a control signal.

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

(12) Engine knock signal circuit
Engine knocking is detected by knock sensor (Bank 1) and the signal is input into TERMINAL KNK1 as a control signal.

2. Control System

- SFI system
  The SFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (12) etc.) to the engine control module. The best fuel injection timing is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector (Inject the fuel). The sequential multiport fuel injection (Electronic fuel injection) 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 (Input signals from (1), (2), (4) to (12) etc.). 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.
- Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the heated oxygen sensors (Bank 1 sensor 1, bank 1 sensor 2) to improve detection performance of the sensors.
  The engine control module evaluates the signals from each sensor (Input signals from (1), (2), (4), (8) to (10) etc.), and outputs current to TERMINALS HT1A, HT1B to control the heater.
- ACIS
  ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.
  The engine control module judges the engine speed by the signals ((4), (5)) from each sensor and outputs signals to the TERMINAL ACLV to control the VSV (ACIS).
- MPX
  The MPX communicates with the combination meter, as well as body ECU of the multiplex communication system

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.

Service Hints

E8 (E), E9 (F), E10 (G), E11 (H), E12 (I) Engine Control Module

BATT-E1 : Always 9.0-14.0 volts
+B-E1 : 9.0-14.0 volts (Ignition SW at ON position)
VC-E2 : 4.5-5.5 volts (Ignition SW at ON position)
VTA-E2 : 0.3-0.8 volts (Ignition SW ON and throttle valve fully closed)
3.2-4.9 volts (Ignition SW ON and throttle valve open)
THA-E2 : 0.5-3.4 volts (Ignition SW ON and intake air temp. 20°C, 68°F)
THW-E2 : 0.2-1.0 volts (Ignition SW ON and coolant temp. 80°C, 176°F)
STA-E1 : 6.0-14.0 volts (Engine cranking)
W-E1 : 9.0-14.0 volts (No trouble and engine running)
STP-E1 : 9.0-14.0 volts (Brake pedal depress)
IGT1, IGT2, IGT3, IGT4-E1 : 0.8-1.2 volts (Engine cranking or idling)
#10, #20, #30, #40-E01, E02 : 9.0-14.0 volts (Ignition SW at ON position)

Resistance of ECU Wiring Connectors

(Disconnect wiring connector)
VTA-E2 : 3.3-10.0 kΩ (Throttle valve fully open)
0.2-0.8 kΩ (Throttle valve fully closed)
VC-E2 : 3.0-7.0 kΩ
THA-E2 : 2.0-3.0 kΩ (Intake air temp. 20°C, 68°F)
THW-E2 : 0.2-0.4 kΩ (Coolant temp. 80°C, 176°F)

C/OPN Relay

5-3 : Closed with the starter cranking and engine running

EFI Relay

3-5 : Closed with the ignition SW at ON or ST position

E6 Engine Coolant Temp. Sensor

1-2 : 10.0-20.0 kΩ (-20°C, -4°F)
4.0-7.0 k Ω (0°C, 32°F)
2.0-3.0 kΩ (20°C, 68°F)
0.9-1.3 kΩ (40°C, 104°F)
0.4-0.7 kΩ (60°C, 140°F)
0.2-0.4 kΩ (80°C, 176°F)

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A17	36	E10 G	34 (2ZZ-GE)	J6	37
A18	34 (2ZZ-GE)	E11 H	34 (2ZZ-GE)	J14	38
A19	34 (2ZZ-GE)	E12 I	34 (2ZZ-GE)	K1	35 (2ZZ-GE)
A22	34 (2ZZ-GE)	F17	38	M1	35 (2ZZ-GE)
B6	36	G2	34 (2ZZ-GE)	N1	35 (2ZZ-GE)
C1	34 (2ZZ-GE)	H8	37	O2	35 (2ZZ-GE)
C2	34 (2ZZ-GE)	H9	37	P1	35 (2ZZ-GE)
C3	34 (2ZZ-GE)	I2	35 (2ZZ-GE)	P2	35 (2ZZ-GE)
C4	34 (2ZZ-GE)	I3	35 (2ZZ-GE)	S8	37
C6	36	I4	35 (2ZZ-GE)	T1	35 (2ZZ-GE)
C11	36	I5	35 (2ZZ-GE)	V1	35 (2ZZ-GE)
C12 A	36	I6	35 (2ZZ-GE)	V3	35 (2ZZ-GE)
C13 B	36	I7	35 (2ZZ-GE)	V4	35 (2ZZ-GE)
D1	36	I8	35 (2ZZ-GE)	V5	35 (2ZZ-GE)
E6	34 (2ZZ-GE)	I9	35 (2ZZ-GE)	V6	39
E7	34 (2ZZ-GE)	I10	37	V7	39
E8 E	34 (2ZZ-GE)	J1	35 (2ZZ-GE)	V8	35 (2ZZ-GE)
E9 F	34 (2ZZ-GE)	J3	37		

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IH		
IK		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	42 (2ZZ-GE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA2		
EA3		
EC1	42 (2ZZ-GE)	Engine Room Main Wire and Engine Wire (Inside of Engine Room R/B No.1)
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE1	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE3		
IE4		
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

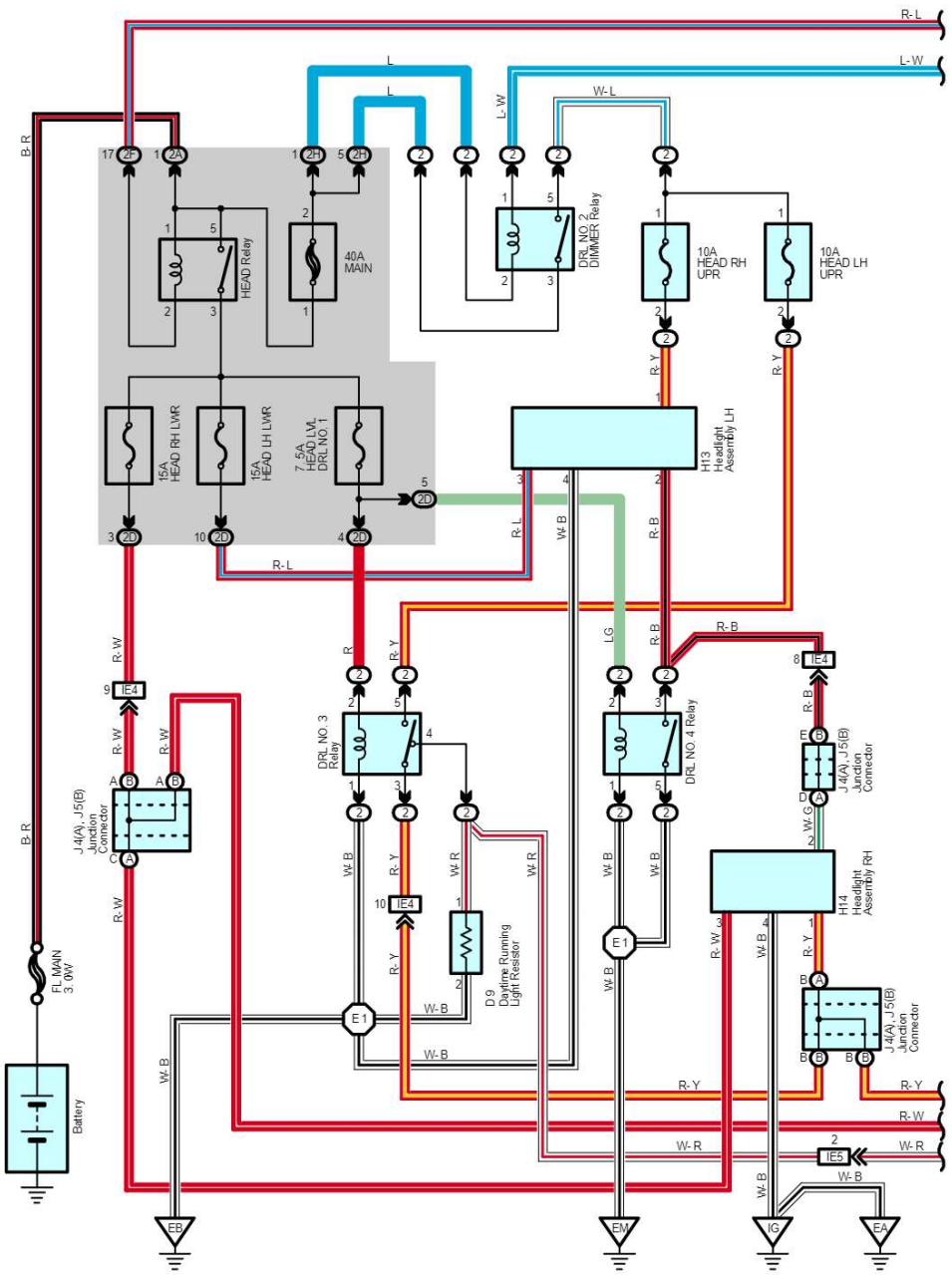
: GROUND POINTS

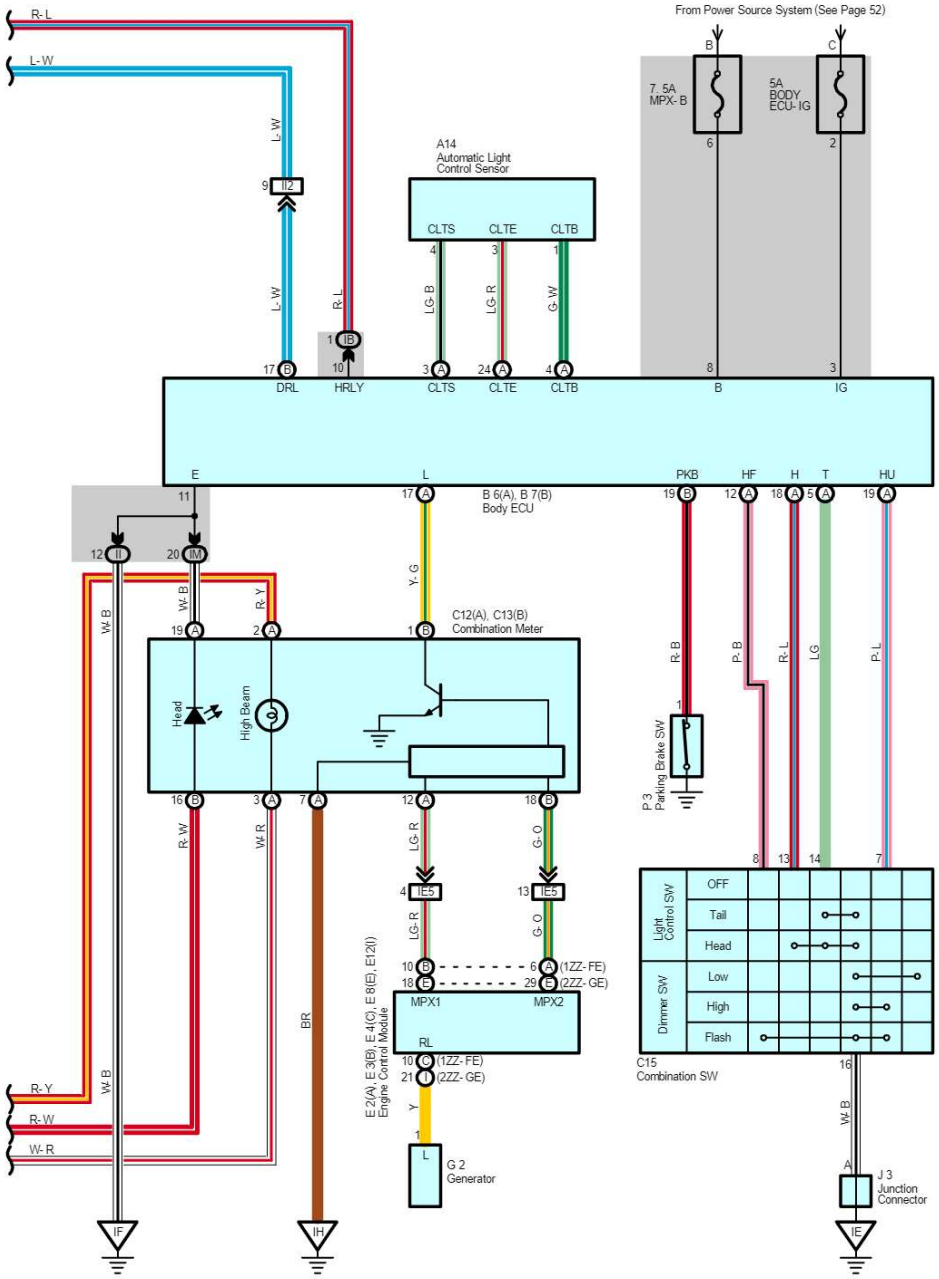
Code	See Page	Ground Points Location
EB	42 (2ZZ-GE)	Front Left Fender
EC	42 (2ZZ-GE)	Cylinder Head Cover LH
ED		
EM	42 (2ZZ-GE)	Front Left Fender
EN	42 (2ZZ-GE)	Air Pump Bracket
EO	42 (2ZZ-GE)	Engine Mount Brace RH
IE	44	Cowl Side Panel LH
IH	44	Cowl Side Panel RH
BJ	48	Luggage Room Left

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	42 (2ZZ-GE)	Engine Room Main Wire	E3	42 (2ZZ-GE)	Engine Wire
E2	42 (2ZZ-GE)	Engine Wire	E4	42 (2ZZ-GE)	Engine Room Main Wire

Headlight with HID




From Power Source System (See Page 52)
R-L
L-W
7.5A MPX-B
5A BODY ECU-IG
A14
Automatic Light Control Sensor
CLTS
CLTE
CLTB
DRL
HRLY
B
IG
E
L
PKB
HF
H
T
HU
B 6(A), B 7(B)
Body ECU
C12(A), C13(B)
Combination Meter
Head
High Beam
P 3
Parking Brake SW
Light Control SW
Dimmer SW
OFF
Tail
Head
Low
High
Flash
C15
Combination SW
MPX1
MPX2
RL
E 2(A), E 3(B), E 4(C), E 8(E), E12(I)
Engine Control Module
(1ZZ-FE)
(2ZZ-GE)
G 2
Generator
J 3
Junction Connector
BR
IF
IH
IE

Headlight with HID

System Outline

When the following conditions are met while the ignition SW is ON, and if the light control SW is at OFF or TAIL position, the daytime running light is controlled.
- Parking brake lever is released (Parking brake SW is OFF)
- Input signal from the generator

If any of the following conditions are met, the daytime running light control is canceled.
- Ignition SW is turned OFF.
- Light control SW is at HEAD position.

Service Hints

HEAD Relay

5-3 : Closed with the light control SW at HEAD position or the dimmer SW at FLASH position
Closed with the engine running and the parking brake lever released (Parking brake SW off)

C15 Combination SW

13-16 : Closed with the light control SW at HEAD position
8-16 : Closed with the dimmer SW at FLASH position
7-16 : Closed with the dimmer SW at FLASH or HIGH position

P3 Parking Brake SW

1-Ground : Closed with the parking brake lever pulled up

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A14		36	E2	A	32 (1ZZ-FE)	H13		34 (2ZZ-GE)
B6	A	36	E3	B	32 (1ZZ-FE)	H14		32 (1ZZ-FE)
B7	B	36	E4	C	32 (1ZZ-FE)			34 (2ZZ-GE)
C12	A	36	E8	E	34 (2ZZ-GE)	J3		37
C13	B	36	E12	I	34 (2ZZ-GE)	J4	A	37
C15		36	G2		32 (1ZZ-FE)	J5	B	37
D9		32 (1ZZ-FE)			34 (2ZZ-GE)	P3		37
		34 (2ZZ-GE)	H13		32 (1ZZ-FE)			

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	27	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

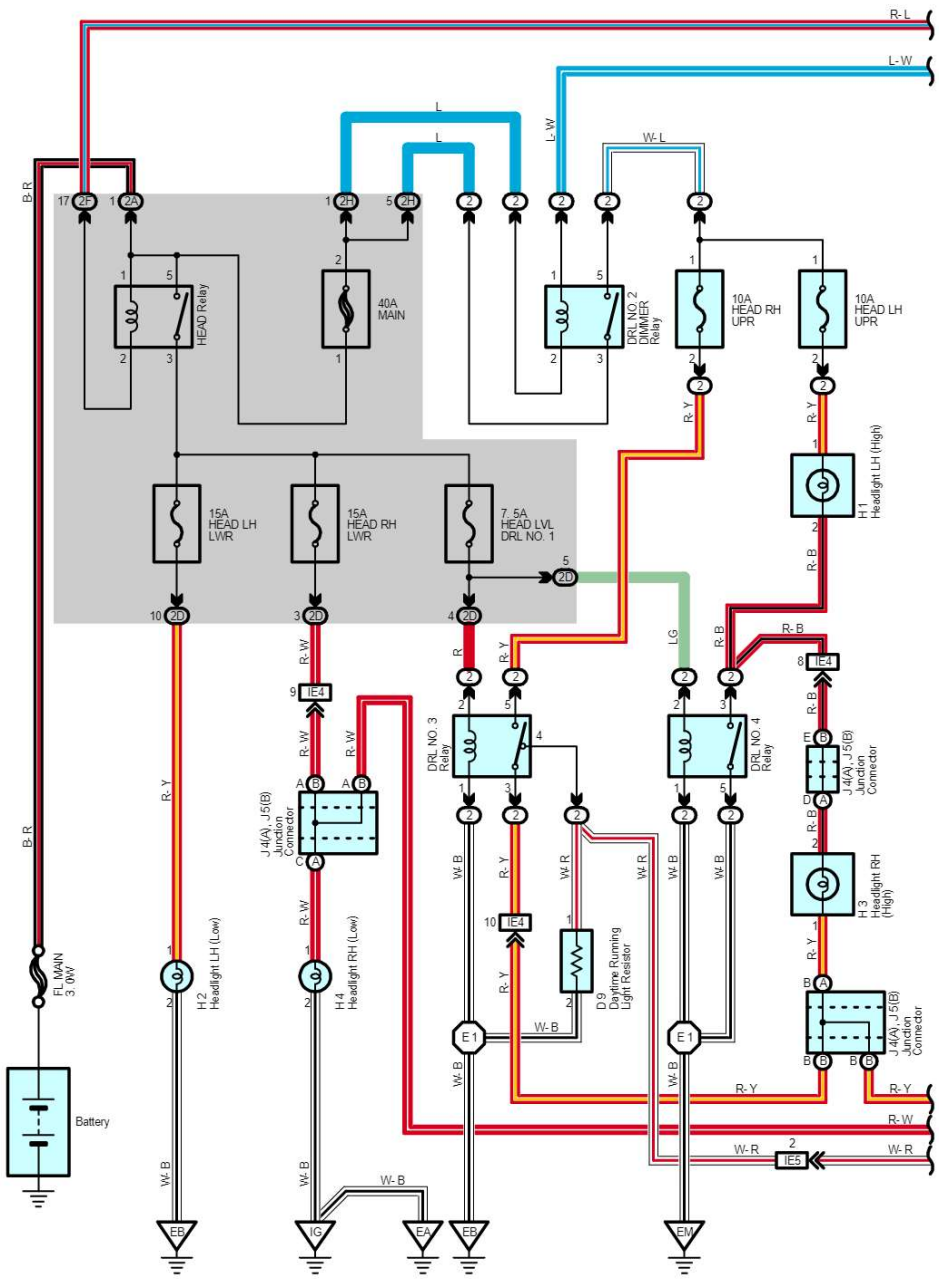
: GROUND POINTS

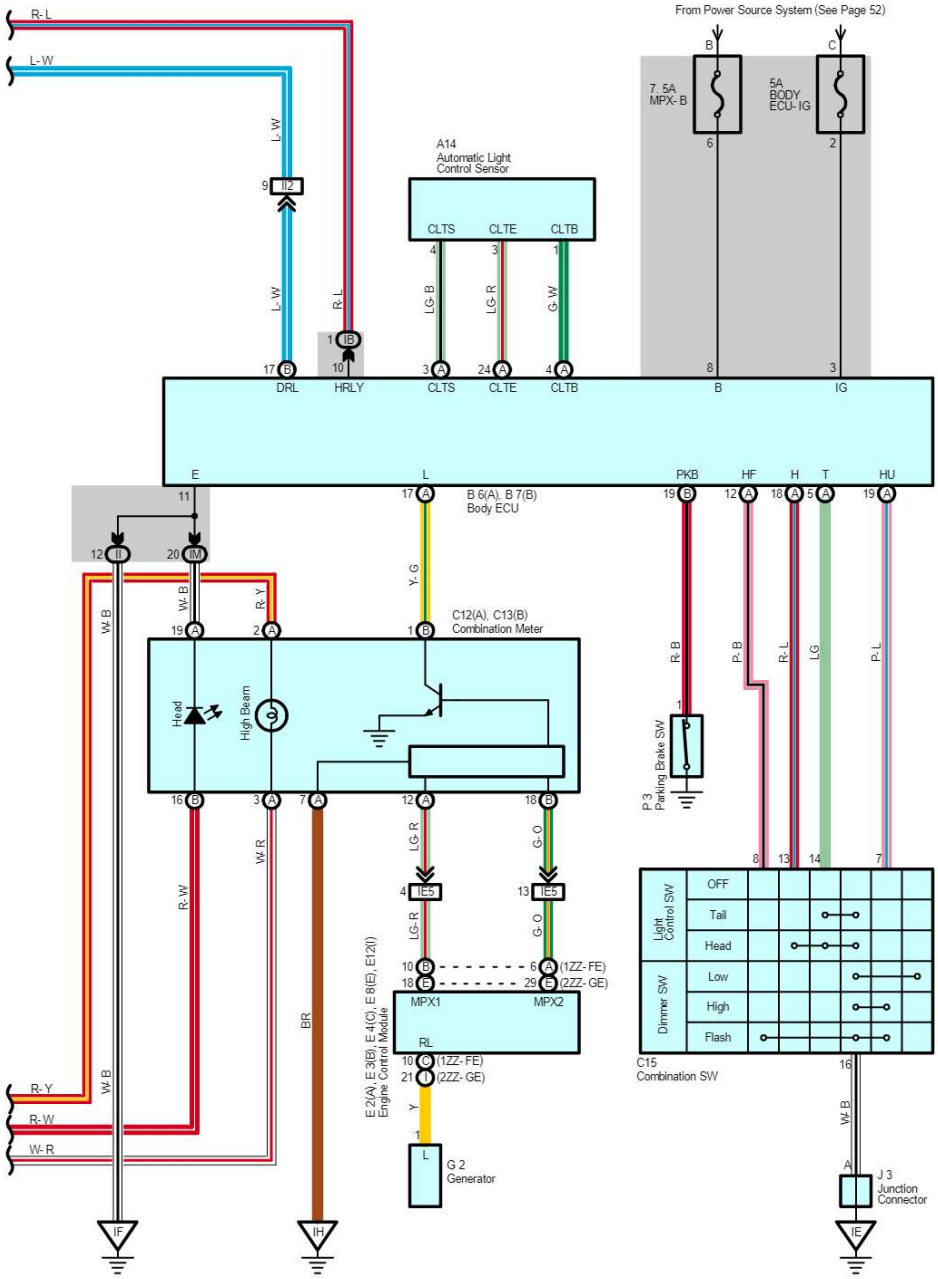
Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IG	44	Cowl Side Panel RH
IH		

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	I4	46	Engine Room No.2 Wire
	42 (2ZZ-GE)				

Headlight without HID




From Power Source System (See Page 52)
R-L
L-W
7.5A MPX-B
5A BODY ECU-IG
A14
Automatic Light Control Sensor
CLTS
CLTE
CLTB
L-W
R-L
LG-B
LG-R
G-W
DRL
HRLY
B
IG
E
L
PKB
HF
H
T
HU
B 6(A), B 7(B) Body ECU
C12(A), C13(B) Combination Meter
Y-G
W-B
R-Y
R-B
P-B
R-L
LG
P-L
Head
High Beam
P 3 Parking Brake SW
W-R
R-W
G-O
BR
MPX1
MPX2
RL
(1ZZ-FE)
(2ZZ-GE)
E2(A), E3(B), E4(C), E8(E), E12(I) Engine Control Module
Y
G 2 Generator
Light Control SW
Dimmer SW
OFF
Tail
Head
Low
High
Flash
C15 Combination SW
J 3 Junction Connector
IF
IH
IE

Headlight without HID

System Outline

When the following conditions are met while the ignition SW is ON, and if the light control SW is at OFF or TAIL position, the daytime running light is controlled.
- Parking brake lever is released (Parking brake SW is OFF)
- Input signal from the generator

If any of the following conditions are met, the daytime running light control is canceled.
- Ignition SW is turned OFF.
- Light control SW is at HEAD position.

Service Hints

HEAD Relay

5-3 : Closed with the light control SW at HEAD position or the dimmer SW at FLASH position
Closed with the engine running and the parking brake lever released (Parking brake SW off)

C15 Combination SW

13-16 : Closed with the light control SW at HEAD position
8-16 : Closed with the dimmer SW at FLASH position
7-16 : Closed with the dimmer SW at FLASH or HIGH position

P3 Parking Brake SW

1-Ground : Closed with the parking brake lever pulled up

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A14		36	E3	B	32 (1ZZ-FE)	H2		34 (2ZZ-GE)
B6	A	36	E4	C	32 (1ZZ-FE)	H3		32 (1ZZ-FE)
B7	B	36	E8	E	34 (2ZZ-GE)			34 (2ZZ-GE)
C12	A	36	E12	I	34 (2ZZ-GE)	H4		32 (1ZZ-FE)
C13	B	36	G2		32 (1ZZ-FE)			34 (2ZZ-GE)
C15		36			34 (2ZZ-GE)	J3		37
D9		32 (1ZZ-FE)	H1		32 (1ZZ-FE)	J4	A	37
		34 (2ZZ-GE)			34 (2ZZ-GE)	J5	B	37
E2	A	32 (1ZZ-FE)	H2		32 (1ZZ-FE)	P3		37

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	27	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

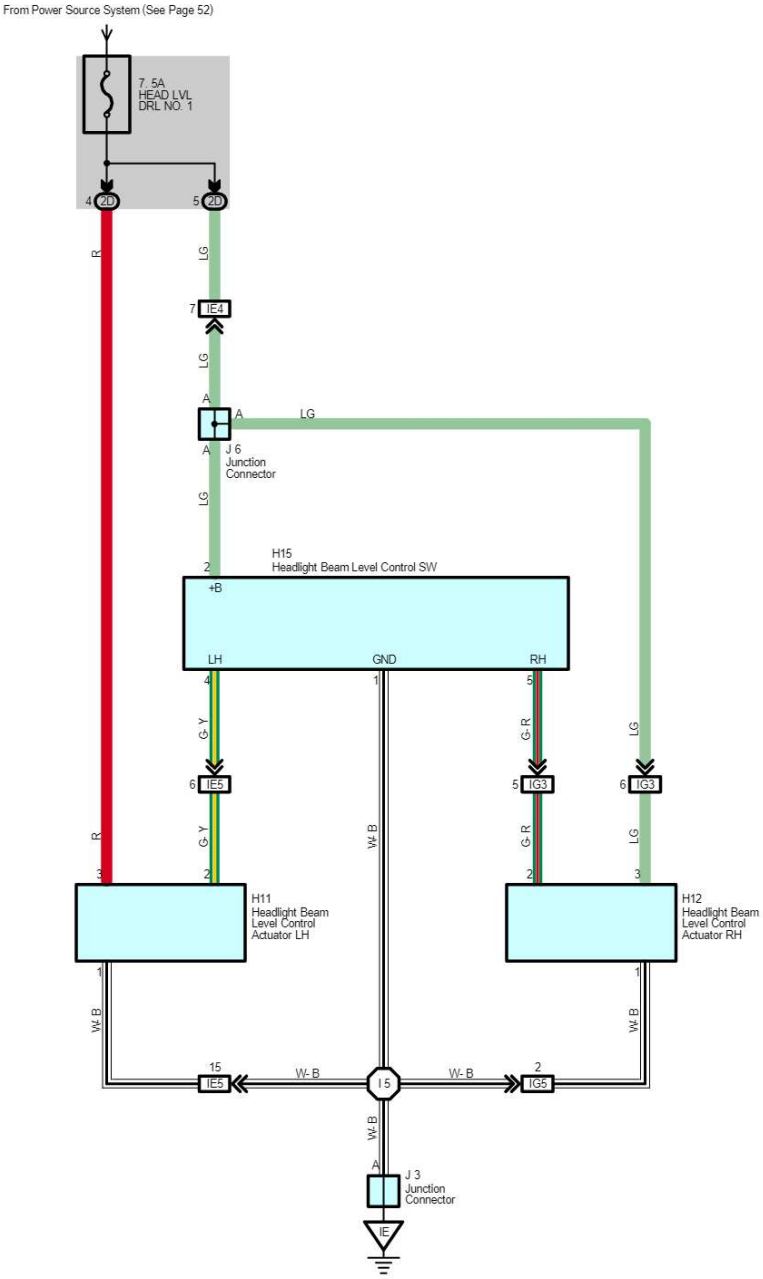
: **GROUND POINTS**

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IG	44	Cowl Side Panel RH
IH		

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	E1	42 (2ZZ-GE)	Engine Room Main Wire

Headlight Beam Level Control



Service Hints

H15 Headlight Beam Level Control SW

2-Ground : Always approx. 12 volts
1-Ground : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
H11	32 (1ZZ-FE)	H12	34 (2ZZ-GE)	J6	37
	34 (2ZZ-GE)	H15	37		
H12	32 (1ZZ-FE)	J3	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
IG3	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IG5		

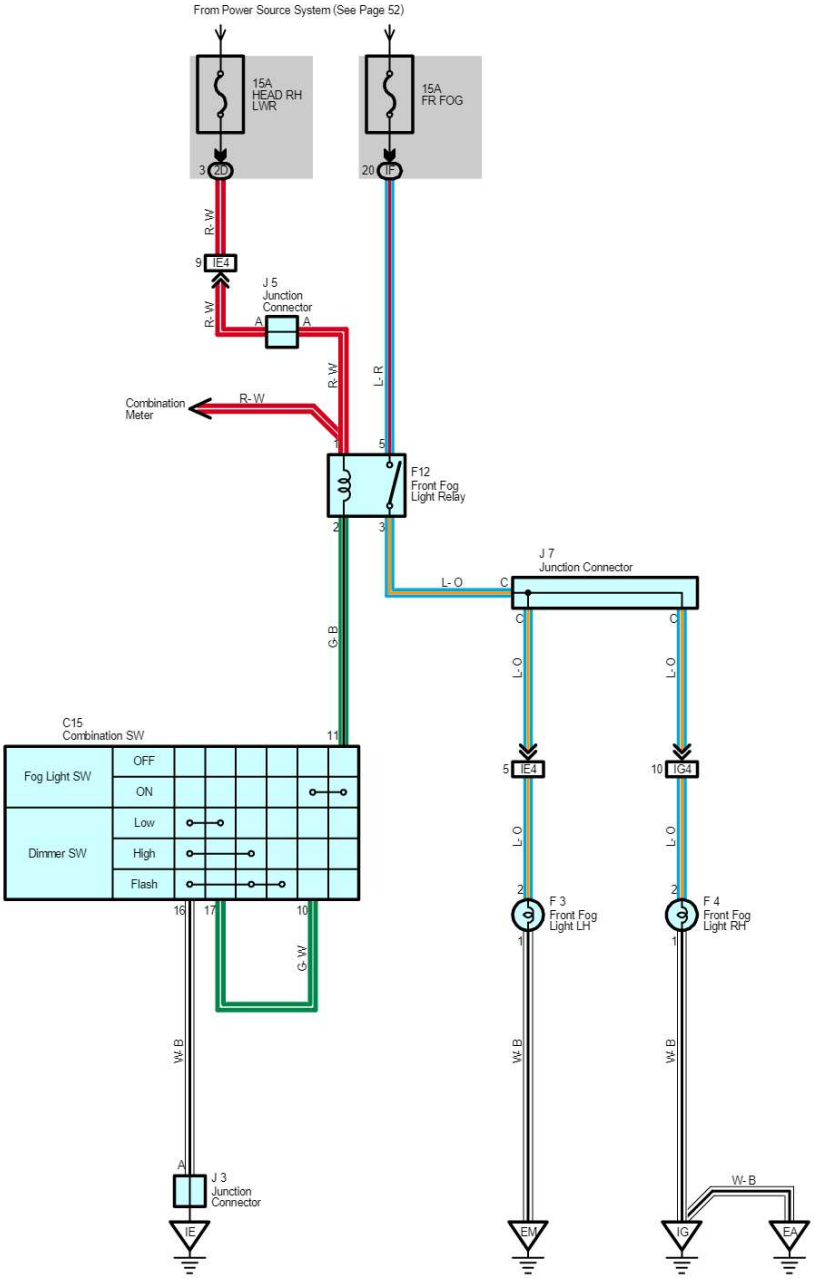
: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	46	Instrument Panel Wire			

Fog Light


From Power Source System (See Page 52)
15A
HEAD RH
LWR
15A
FR FOG
3 2D
20 1F
R-W
9 1E4
J 5
Junction
Connector
A A
R-W
L-R
Combination
Meter
R-W
1
5
F12
Front Fog
Light Relay
2
3
J 7
Junction Connector
L-O
C
C
C
G-B
L-O
L-O
C15
Combination SW
11
Fog Light SW
OFF
ON
Dimmer SW
Low
High
Flash
5 1E4
10 1G4
L-O
L-O
2
2
F 3
Front Fog
Light LH
F 4
Front Fog
Light RH
1
1
16
17
10
G-W
W-B
W-B
W-B
A
J 3
Junction
Connector
W-B
1E
EM
IG
EA

Service Hints

F12 Front Fog Light Relay

5-3 : Closed with the dimmer SW at LOW position and the fog light SW at ON position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C15	36	F4	32 (1ZZ-FE)	J3	37
F3	32 (1ZZ-FE)		34 (2ZZ-GE)	J5	37
	34 (2ZZ-GE)	F12	36	J7	37

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

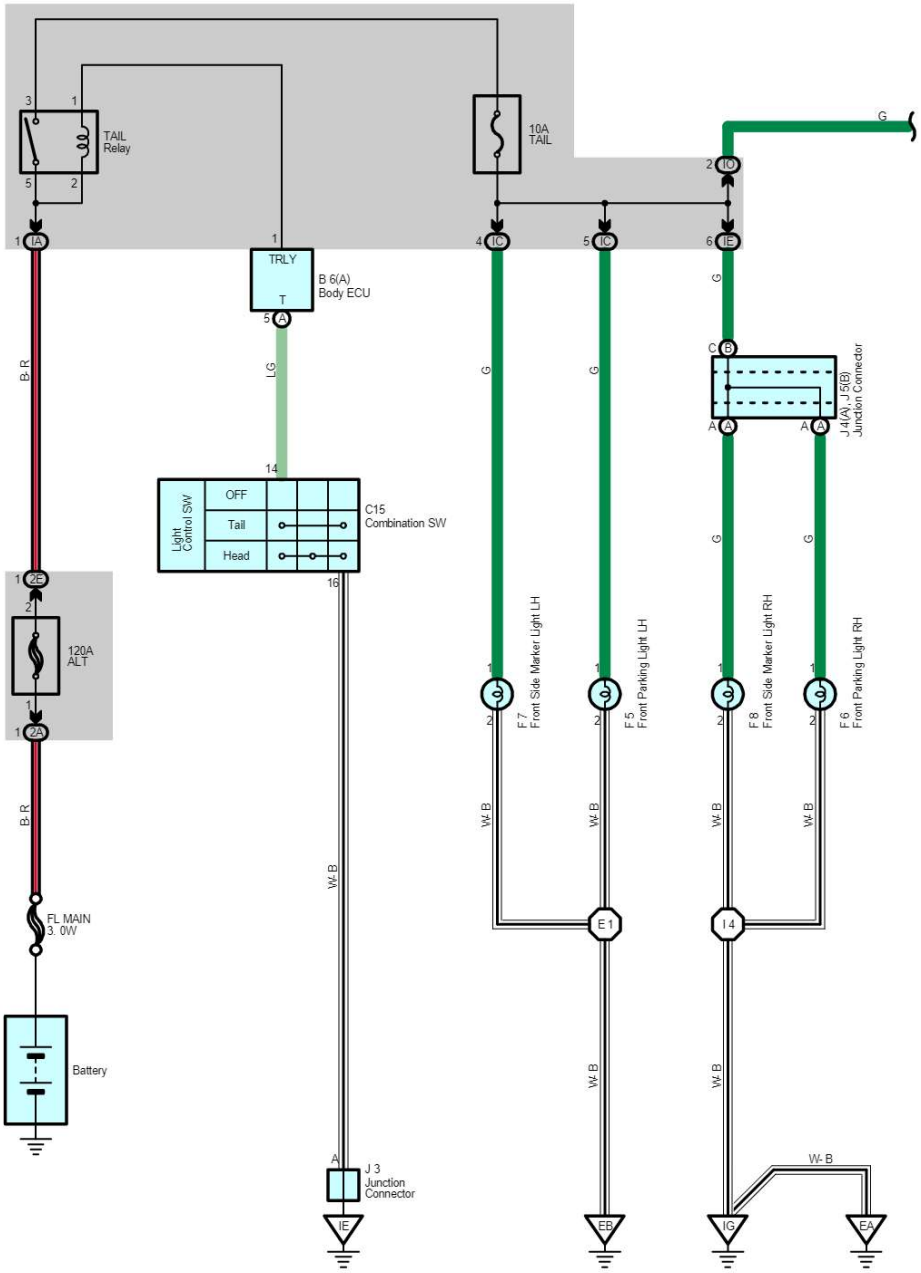
Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

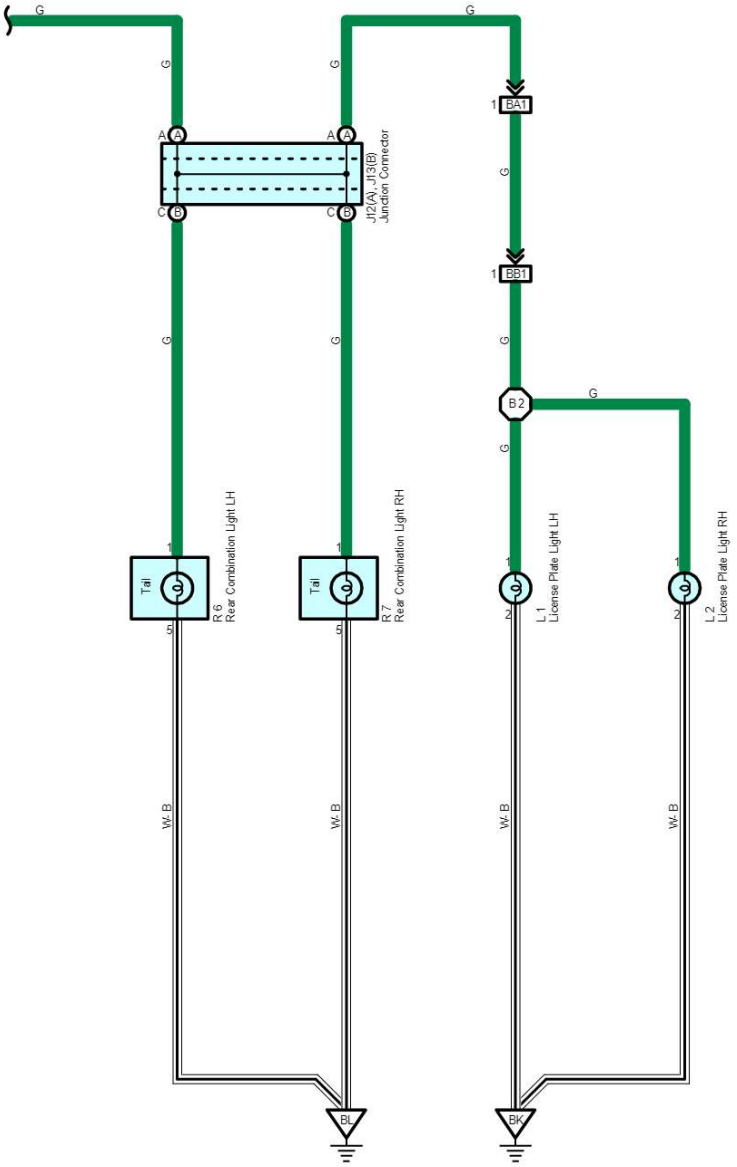
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG4	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IG	44	Cowl Side Panel RH


TAIL Relay
10A TAIL
TRLY
B 6(A) Body ECU
B-R
LG
G
W-B
OFF
Tail
Head
Light Control SW
C15 Combination SW
120A ALT
FL MAIN 3. 0W
Battery
J 3 Junction Connector
J 4(A), J 5(B) Junction Connector
F 7 Front Side Marker Light LH
F 5 Front Parking Light LH
F 8 Front Side Marker Light RH
F 6 Front Parking Light RH
E1
I4
IE
EB
IG
EA


G
G
G
G
A
A
C
B
J12(A), J13(B)
Junction Connector
1
BA1
1
BB1
B2
G
G
G
G
G
G
G
1
Tail
5
R6
Rear Combination Light LH
1
Tail
5
R7
Rear Combination Light RH
1
2
L1
License Plate Light LH
1
2
L2
License Plate Light RH
W-B
W-B
W-B
W-B
BL
BK

Taillight

Service Hints

TAIL Relay

5-3 : Closed with the light control SW at TAIL or HEAD position

C15 Combination SW

14-16 : Closed with the light control SW at TAIL or HEAD position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6 A	36	F7	34 (2ZZ-GE)	J13 B	38
C15	36	F8	32 (1ZZ-FE)	L1	38
F5	32 (1ZZ-FE)		34 (2ZZ-GE)	L2	38
	34 (2ZZ-GE)	J3	37	R6	39
F6	32 (1ZZ-FE)	J4 A	37	R7	39
	34 (2ZZ-GE)	J5 B	37		
F7	32 (1ZZ-FE)	J12 A	38		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2E	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

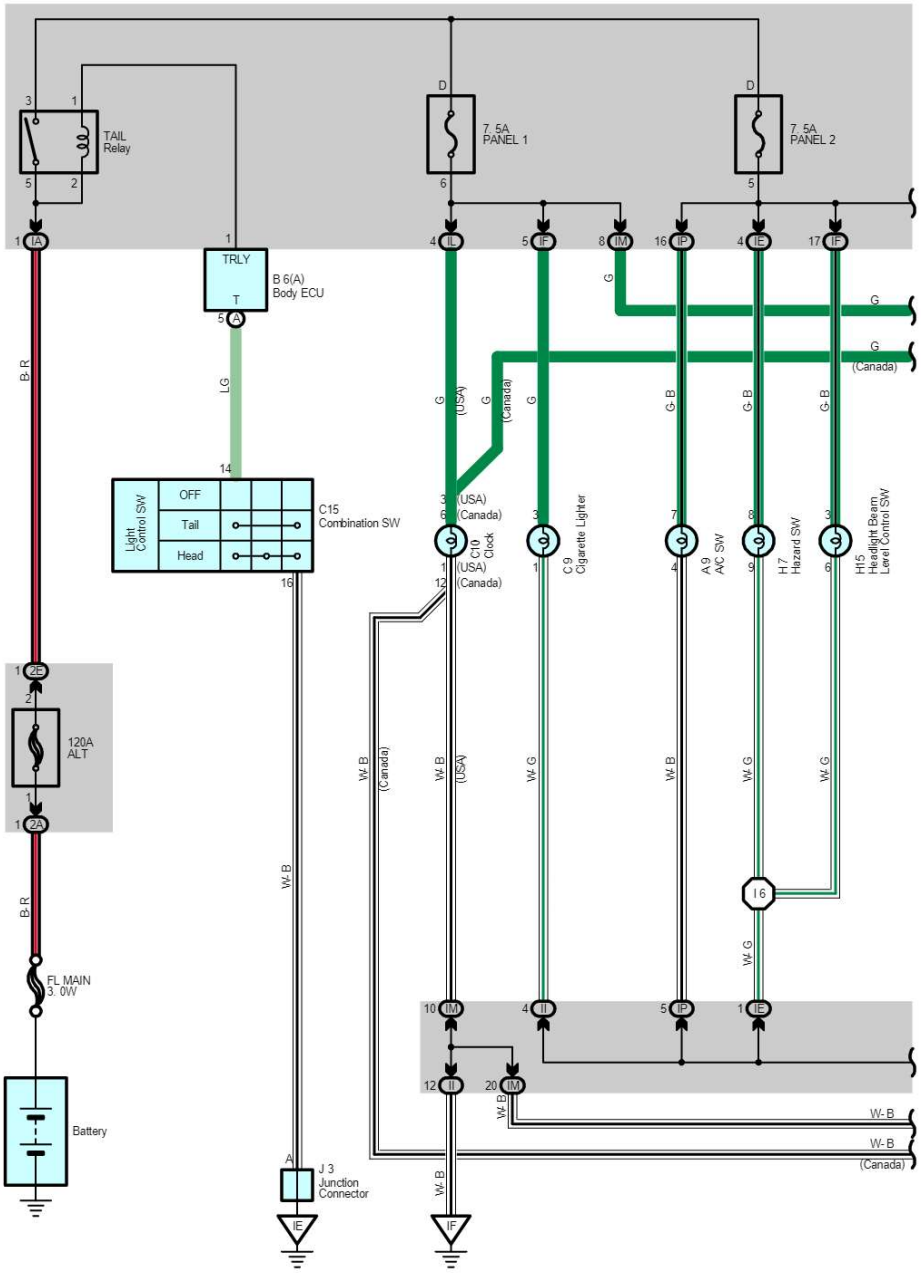
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

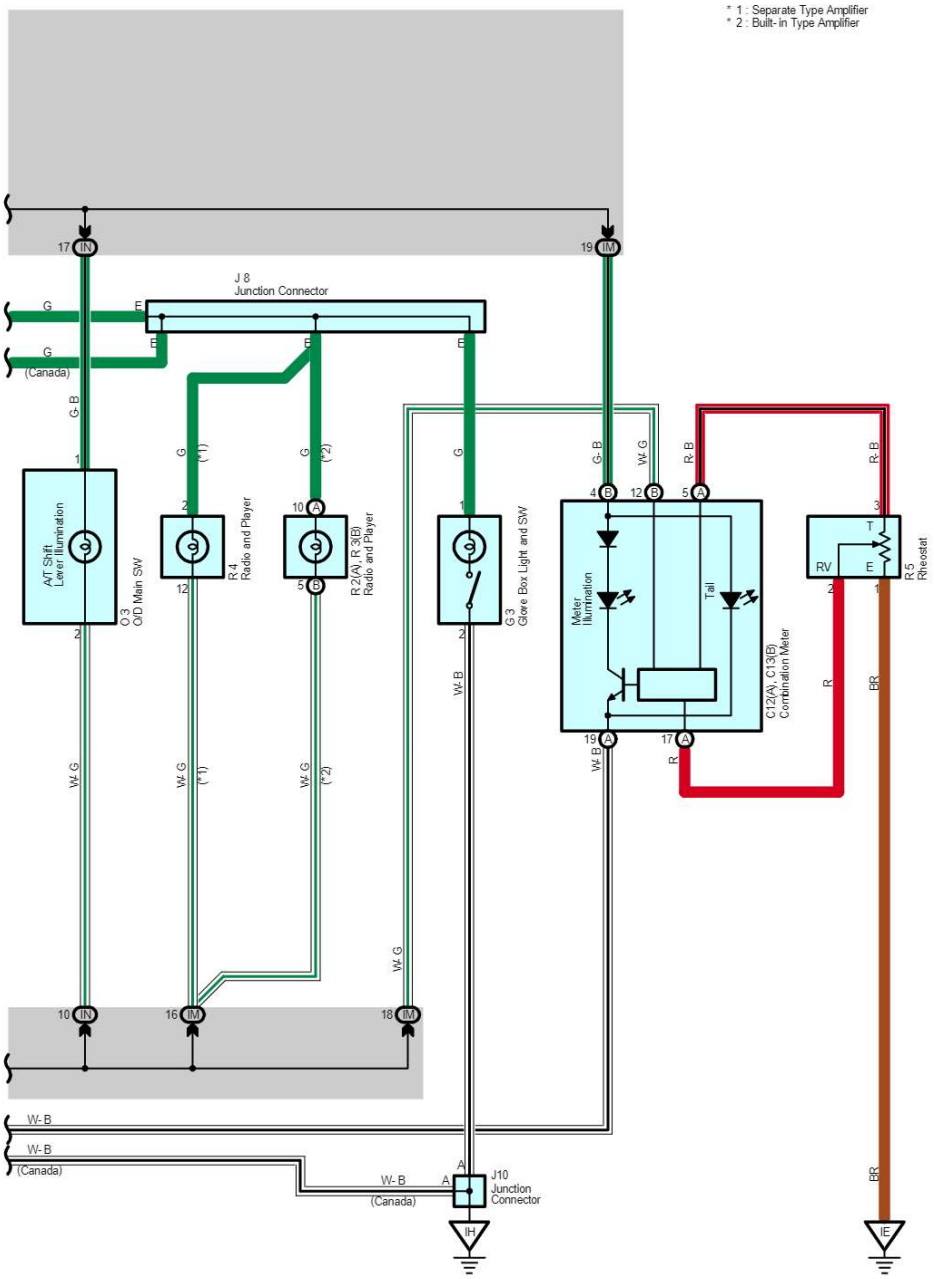
: GROUND POINTS

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IG	44	Cowl Side Panel RH
BK	48	Back Door Left
BL	48	Back Panel Center

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	I4	46	Engine Room No.2 Wire
	42 (2ZZ-GE)		B2	48	Back Door No.2 Wire


TAIL Relay
7.5A PANEL 1
7.5A PANEL 2
TRLY
B 6(A) Body ECU
Light Control SW
OFF
Tail
Head
C15 Combination SW
120A ALT
FL MAIN 3.0W
Battery
J 3 Junction Connector
C10 Clock
C9 Cigarette Lighter
A9 A/C SW
H7 Hazard SW
H15 Headlight Beam Level Control SW
I6
(USA)
(Canada)
B-R
L-G
G
G-B
W-B
W-G


* 1 : Separate Type Amplifier
* 2 : Built- in Type Amplifier
J 8
Junction Connector
A/T Shift Lever Illumination
O 3
O/D Main SW
R 4
Radio and Player
R 2(A), R 3(B)
Radio and Player
G 3
Glove Box Light and SW
Meter Illumination
Tail
C12(A), C13(B)
Combination Meter
R 5
Rheostat
J10
Junction Connector
(Canada)
(*1)
(*2)

Service Hints

TAIL Relay

5-3 : Closed with the light control SW at TAIL or HEAD position

C15 Combination SW

14-16 : Closed with the light control SW at TAIL or HEAD position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A9	36	C15	36	J10	37
B6 A	36	G3	37	O3	37
C9	36	H7	37	R2 A	37
C10	36	H15	37	R3 B	37
C12 A	36	J3	37	R4	37
C13 B	36	J8	37	R5	37

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

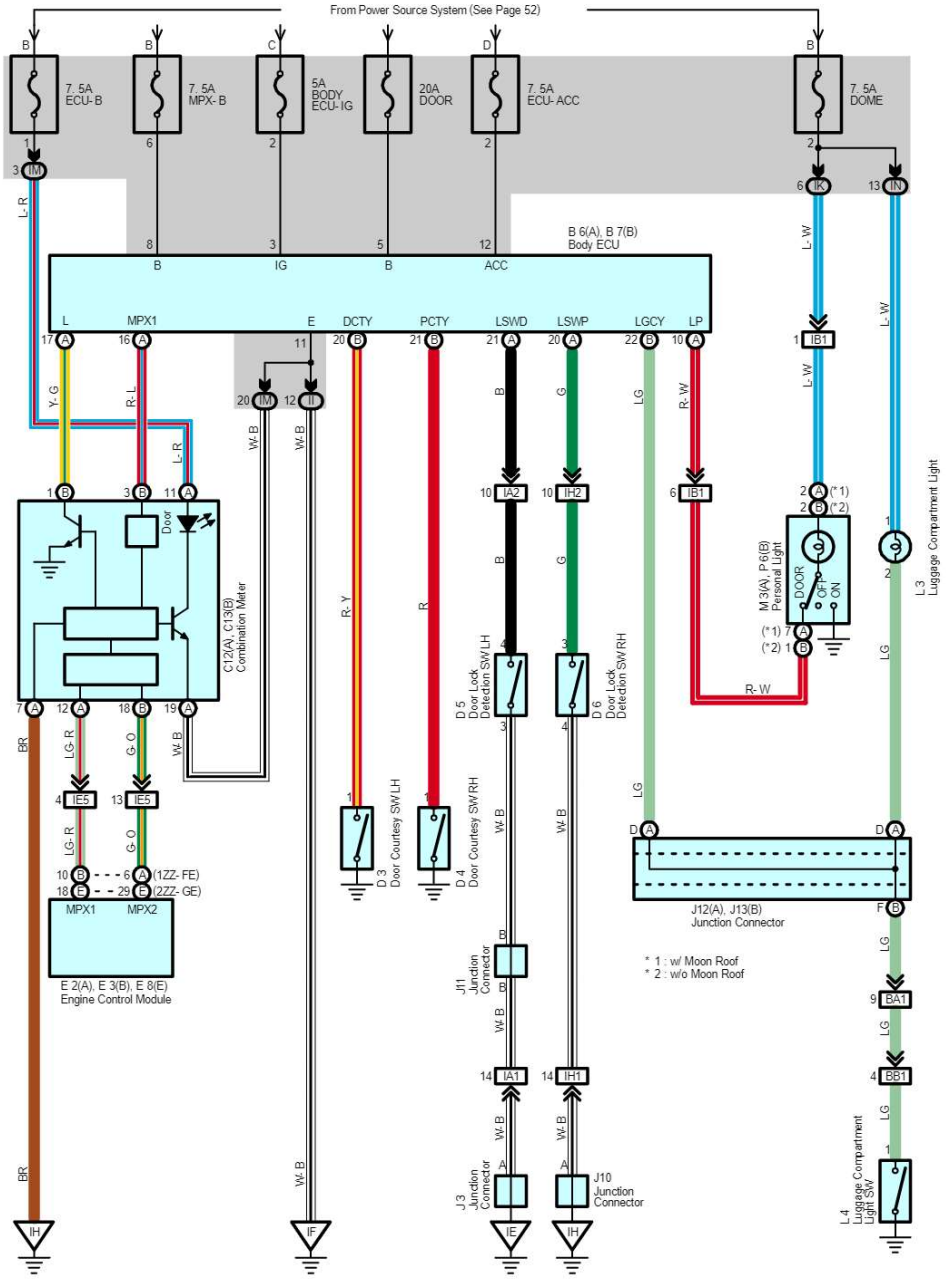
Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF		
II		
IL		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IP	25	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2E	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	46	Instrument Panel Wire			


From Power Source System (See Page 52)
7.5A ECU-B
7.5A MPX-B
5A BODY ECU-IG
20A DOOR
7.5A ECU-ACC
7.5A DOME
B 6(A), B 7(B) Body ECU
L
MPX1
E
DCTY
PCTY
LSWD
LSWP
LGCY
LP
C12(A), C13(B) Combination Meter
D 3 Door Courtesy SW LH
D 4 Door Courtesy SW RH
D 5 Door Lock Detection SW LH
D 6 Door Lock Detection SW RH
J11 Junction Connector
J12(A), J13(B) Junction Connector
J3 Junction Connector
J10 Junction Connector
M 3(A), P 6(B) Personal Light
L 3 Luggage Compartment Light
L 4 Luggage Compartment Light SW
E 2(A), E 3(B), E 8(E) Engine Control Module
(1ZZ- FE)
(2ZZ- GE)
* 1 : w/ Moon Roof
* 2 : w/o Moon Roof

System Outline

Illuminated Entry System

* Lights ON condition

When any door (Driver's side, front passenger's side, or back door etc.) is opened.

* Lights OFF condition

If any of the following conditions are met while the dome light is ON, the light fades out and is turned OFF.

When approximately 15 seconds have elapsed after all doors are closed.

When all doors are closed and the driver's side door and the front passenger's side door is locked.

When all the doors are closed with the ignition SW at ACC or ON position.

Service Hints

D3, D4 Door Courtesy SW LH, RH

1-Ground : Closed with door open

L4 Luggage Compartment Light SW

1-Ground : Luggage compartment door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B6	A	36	D6		38	J12	A	38
B7	B	36	E2	A	32 (1ZZ-FE)	J13	B	38
C12	A	36	E3	B	32 (1ZZ-FE)	L3		38
C13	B	36	E8	E	34 (2ZZ-GE)	L4		38
D3		38	J3		37	M3	A	39
D4		38	J10		37	P6	B	39
D5		38	J11		38			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

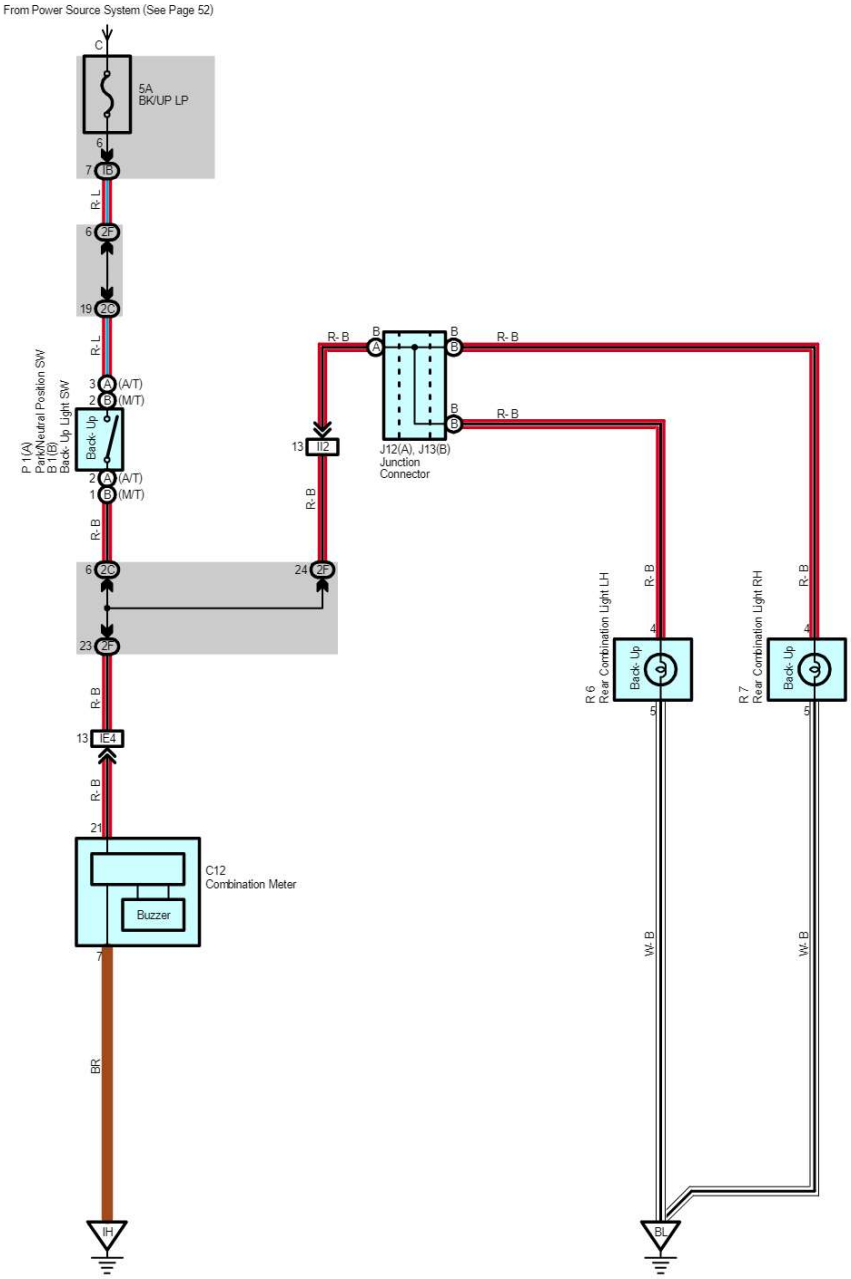
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IB1	44	Roof Wire and Instrument Panel Wire (Left Kick Panel)
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2		
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

Back-Up Light



Service Hints

P1 Park/Neutral Position SW (A/T)

3-2 : Closed with the shift lever at R position

B1 Back-Up Light SW (M/T)

2-1 : Closed with the shift lever in R position

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B1	B	32 (1ZZ-FE)	J12	A	38	P1	A	35 (2ZZ-GE)
		34 (2ZZ-GE)	J13	B	38	R6		39
C12		36	P1	A	33 (1ZZ-FE)	R7		39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

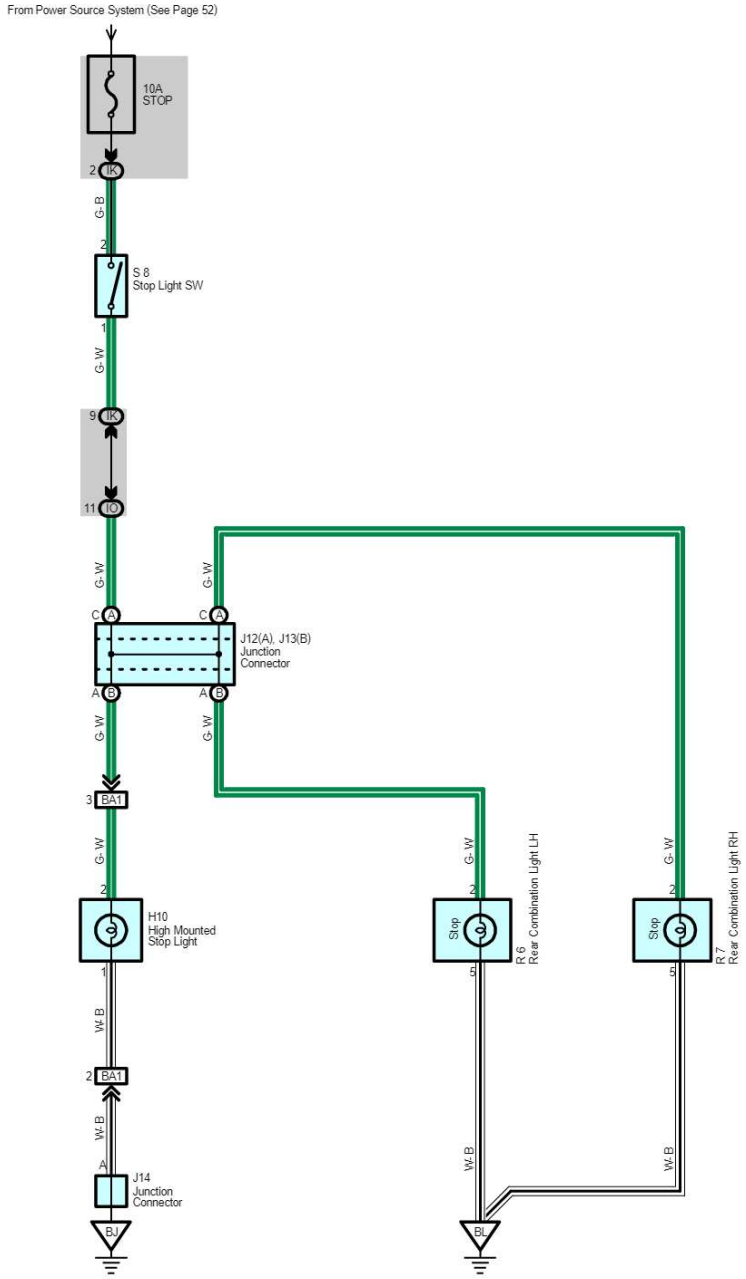
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IH	44	Cowl Side Panel RH
BL	48	Back Panel Center

Stop Light


From Power Source System (See Page 52)
10A
STOP
2 IK
G-B
2
S 8
Stop Light SW
1
G-W
9 IK
11 IO
G-W
G-W
C A
C A
J12(A), J13(B)
Junction
Connector
A B
A B
G-W
G-W
3 BA1
G-W
2
H10
High Mounted
Stop Light
1
W-B
2 BA1
W-B
A
J14
Junction
Connector
BJ
G-W
2
Stop
5
R6
Rear Combination Light LH
W-B
BL
G-W
2
Stop
5
R7
Rear Combination Light RH
W-B

Service Hints

S8 Stop Light SW

2-1 : Closed with the brake pedal depressed

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
H10		38	J14	38	S8	37
J12	A	38	R6	39		
J13	B	38	R7	39		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IK	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

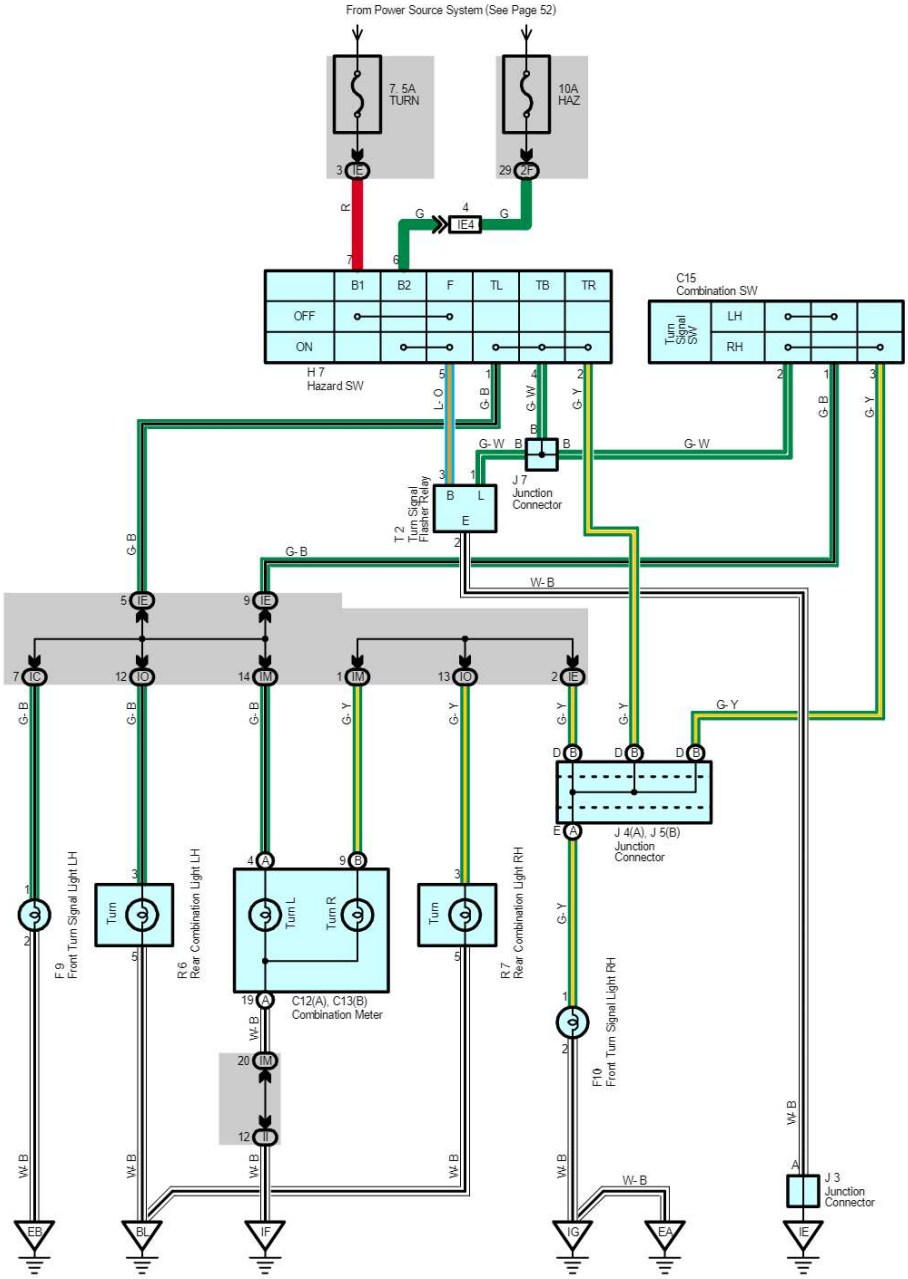
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BJ	48	Luggage Room Left
BL	48	Back Panel Center

Turn Signal and Hazard Warning Light



Service Hints

T2 Turn Signal Flasher Relay

3-Ground : Approx. 12 volts with the ignition SW on or the hazard SW on
1-Ground : Changes from 12 to 0 volts with the ignition SW on and the turn signal SW LH or RH position, and with the hazard SW on
2-Ground : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C12 A	36	F10	32 (1ZZ-FE)	J5 B	37
C13 B	36		34 (2ZZ-GE)	J7	37
C15	36	H7	37	R6	39
F9	32 (1ZZ-FE)	J3	37	R7	39
	34 (2ZZ-GE)	J4 A	37	T2	37

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

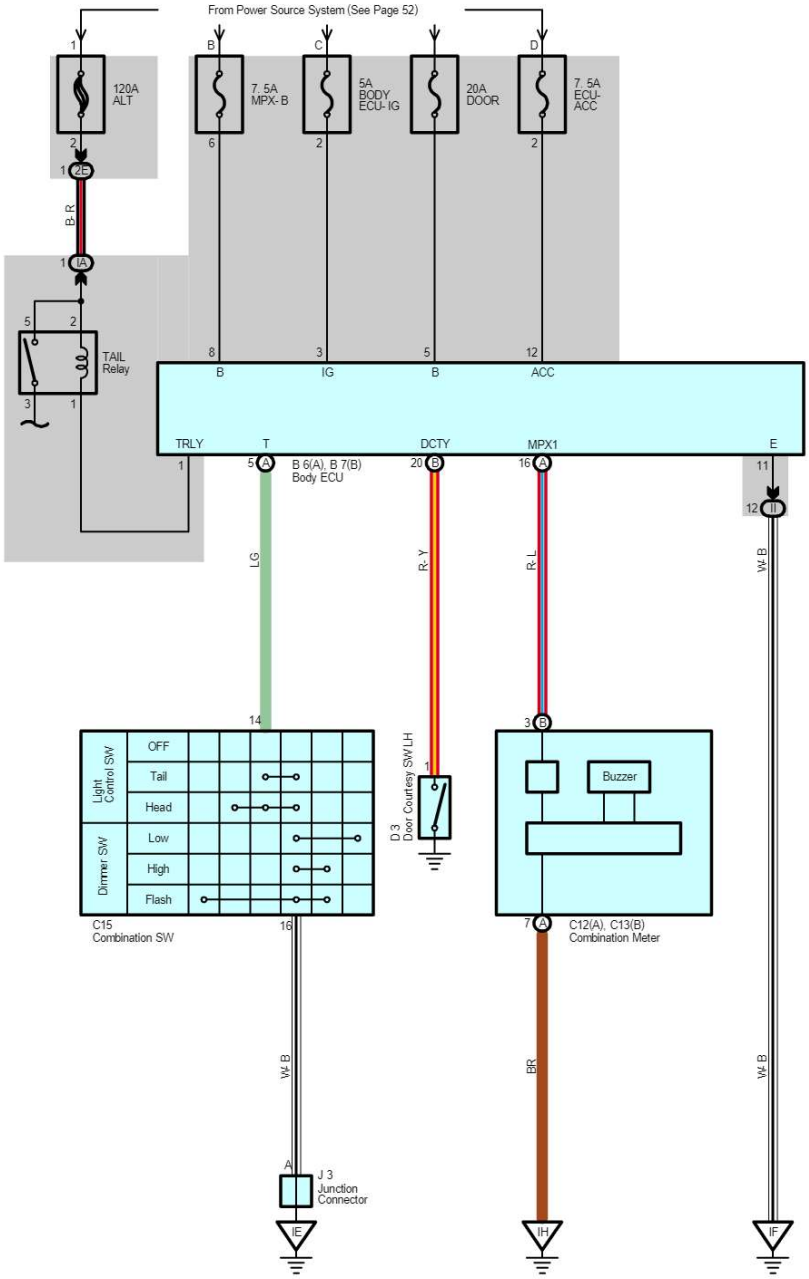
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IM		
IO	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IG	44	Cowl Side Panel RH
BL	48	Back Panel Center


From Power Source System (See Page 52)
120A ALT
7.5A MPX-B
5A BODY ECU-IG
20A DOOR
7.5A ECU-ACC
2E
B-R
1A
TAIL Relay
B
IG
B
ACC
TRLY
T
DCTY
MPX1
E
B 6(A), B 7(B) Body ECU
LG
R-Y
R-L
W-B
OFF
Tail
Head
Low
High
Flash
Light Control SW
Dimmer SW
C15 Combination SW
D 3 Door Courtesy SW LH
Buzzer
C12(A), C13(B) Combination Meter
BR
W-B
J 3 Junction Connector
1E
1H
1F

System Outline

When the ignition SW is OFF and the driver's side door is opened (Door courtesy SW ON) and the light control SW is at TAIL or HEAD position, the light reminder buzzer comes ON.

Service Hints

D3 Door Courtesy SW LH

1-Ground : Driver's door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
B6	A	36	C13	B	36	J3	37
B7	B	36	C15		36		
C12	A	36	D3		38		

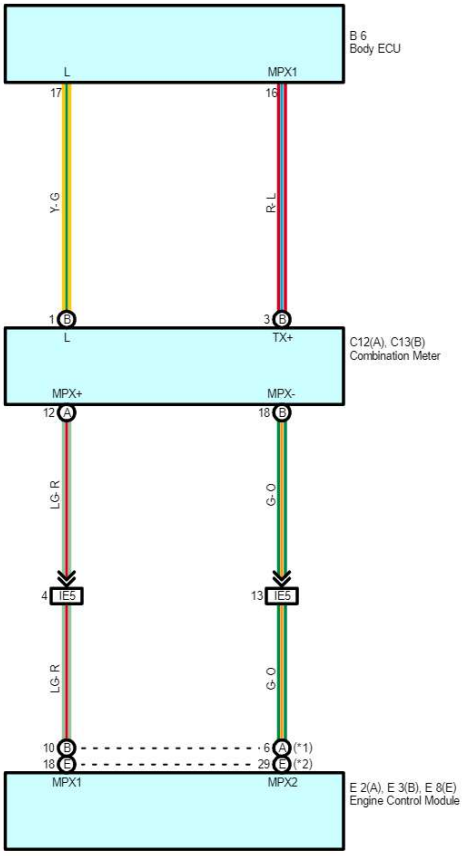
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2E	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

▽ : GROUND POINTS

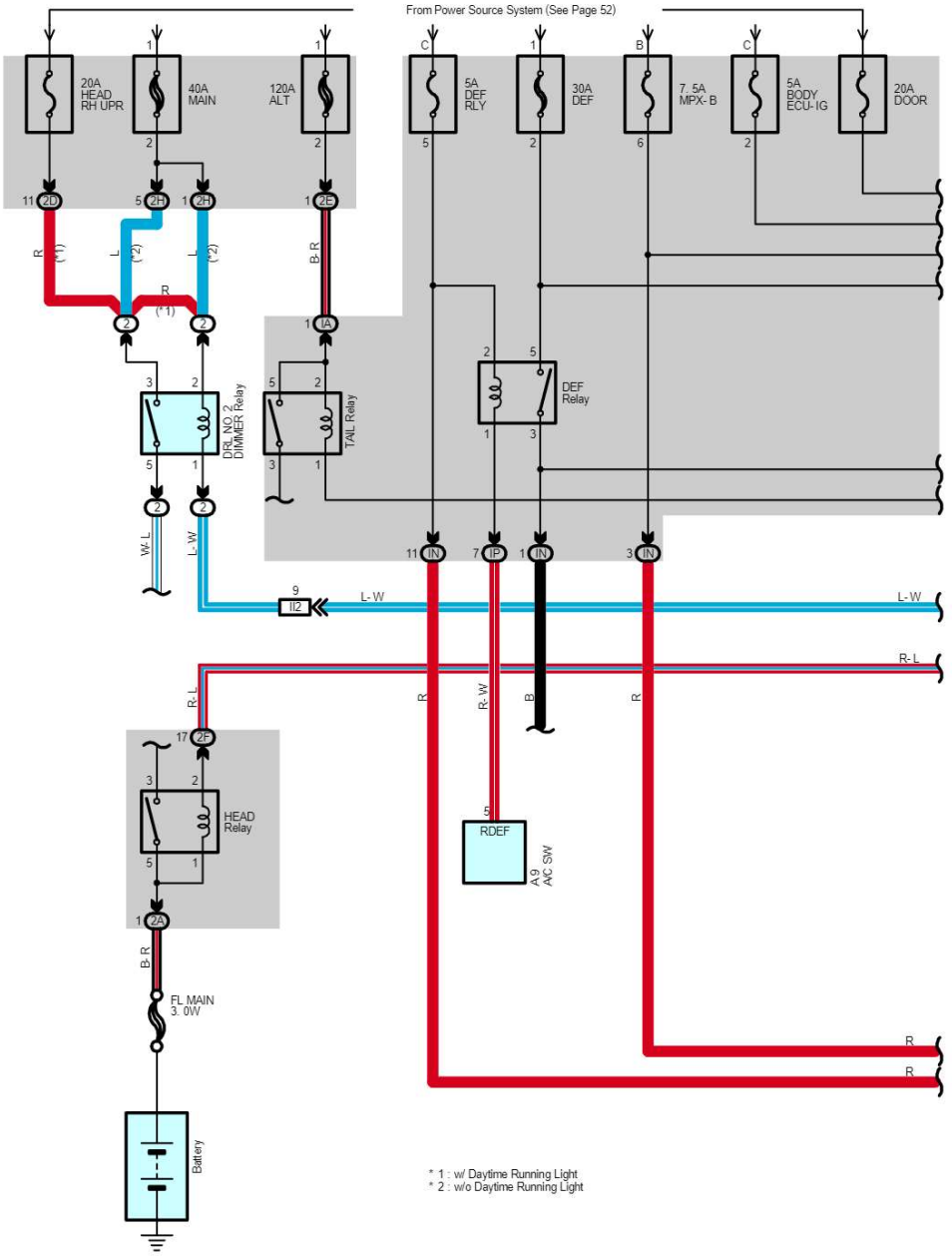
Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

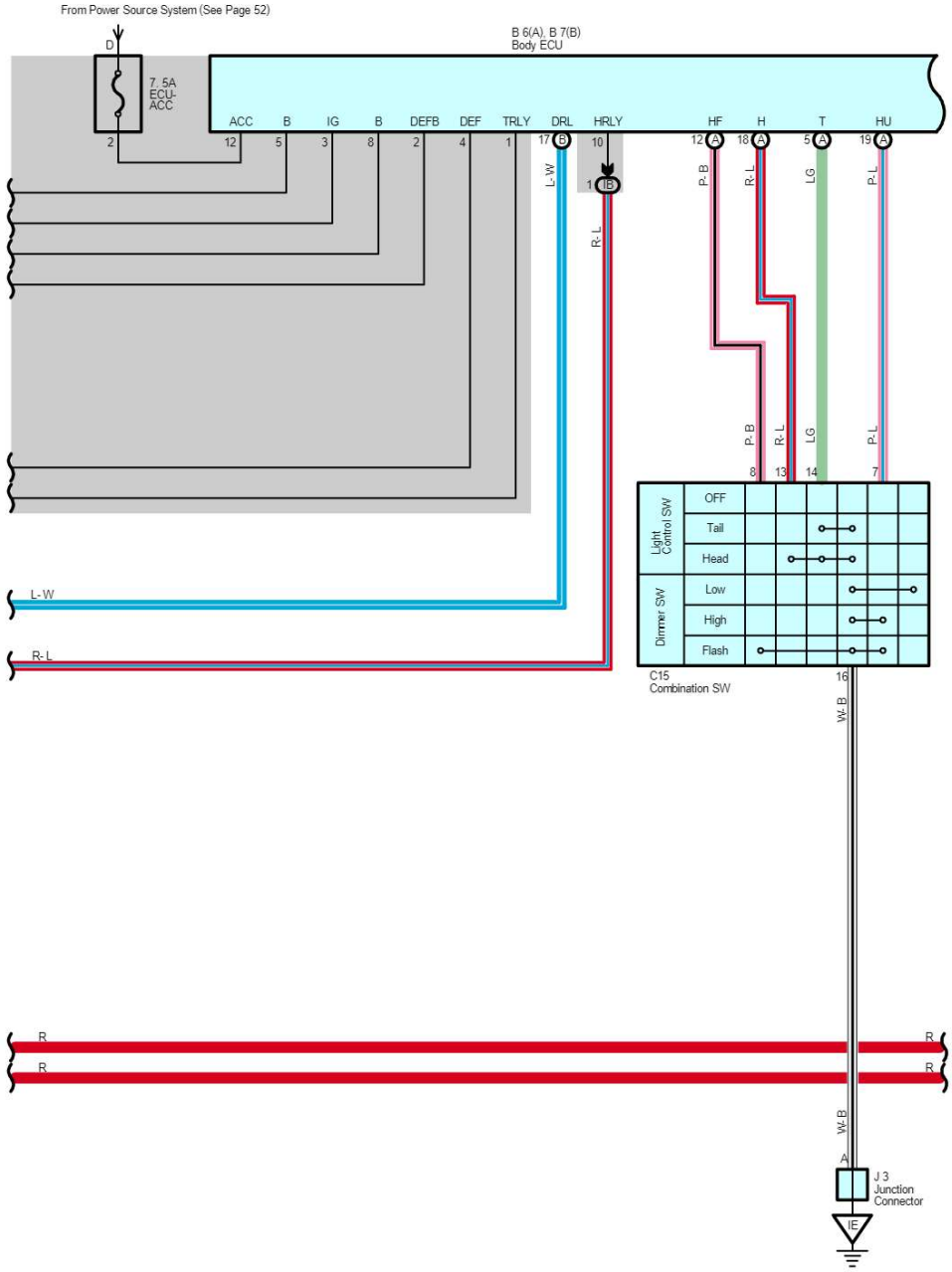
* 1 : 1ZZ- FE
* 2 : 2ZZ- GE

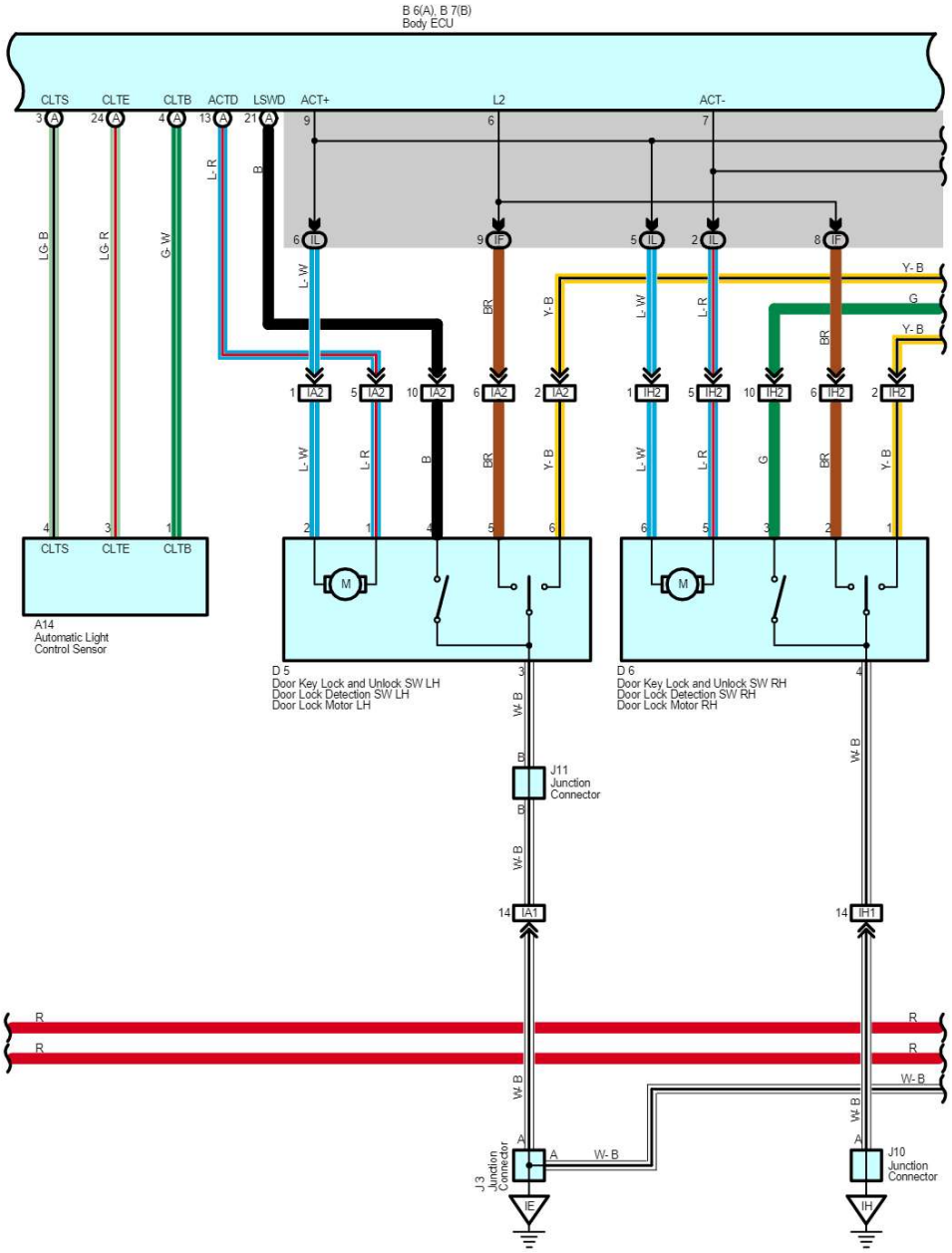


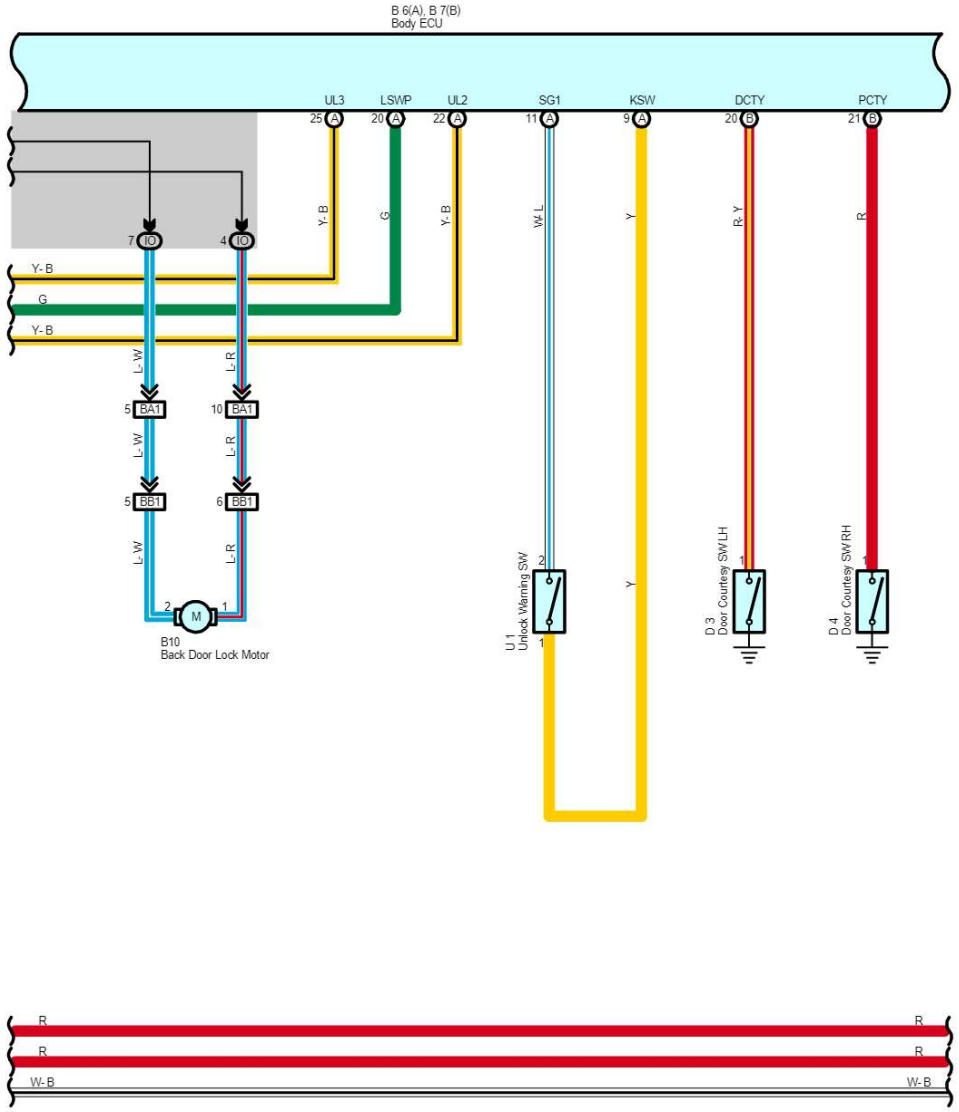
Multiplex Communication System Includes Following Systems

- **Door Lock Control**
- **Electronic Tension Reducer**
- **Headlight**
- **Interior Light**
- **Key Reminder**
- **Light Reminder**
- **Moon Roof**
- **Power Window**
- **Seat Belt Warning**
- **Wireless Door Lock Control**

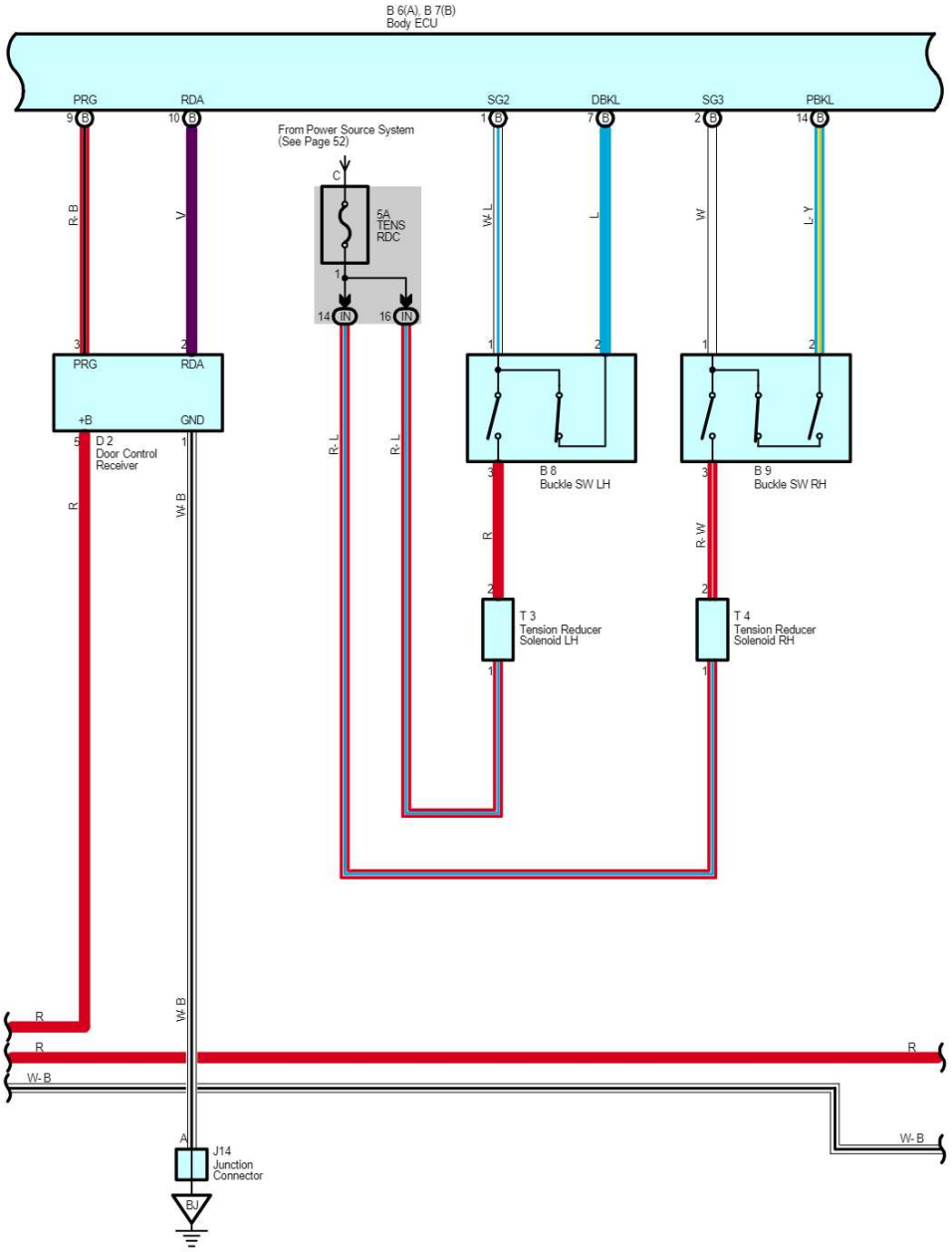

From Power Source System (See Page 52)
20A HEAD RH UPR
40A MAIN
120A ALT
5A DEF RLY
30A DEF
7. 5A MPX- B
5A BODY ECU- IG
20A DOOR
DRL NO. 2 DIMMER Relay
TAIL Relay
DEF Relay
HEAD Relay
RDEF
A/C SW
FL MAIN 3. 0W
Battery
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light

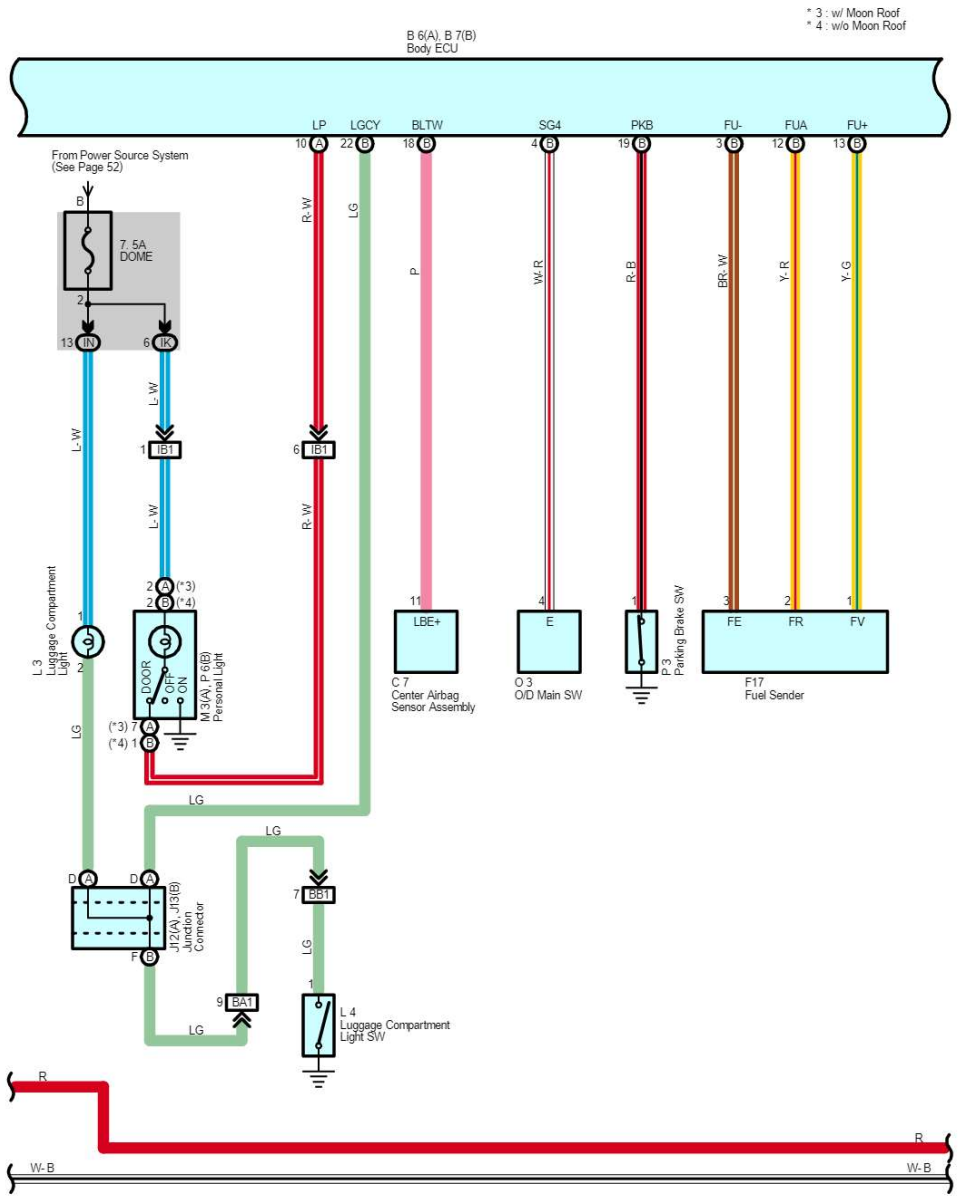

From Power Source System (See Page 52)
D
7. 5A
ECU-
ACC
2
B 6(A), B 7(B)
Body ECU
ACC
B
IG
B
DEFB
DEF
TRLY
DRL
HRLY
HF
H
T
HU
12
5
3
8
2
4
1
17
10
1
12
18
5
19
L-W
R-L
P-B
R-L
LG
P-L
8
13
14
7
Light Control SW
OFF
Tail
Head
Dimmer SW
Low
High
Flash
C15
Combination SW
16
W-B
L-W
R-L
R
R
R
R
W-B
A
J 3
Junction
Connector
IE

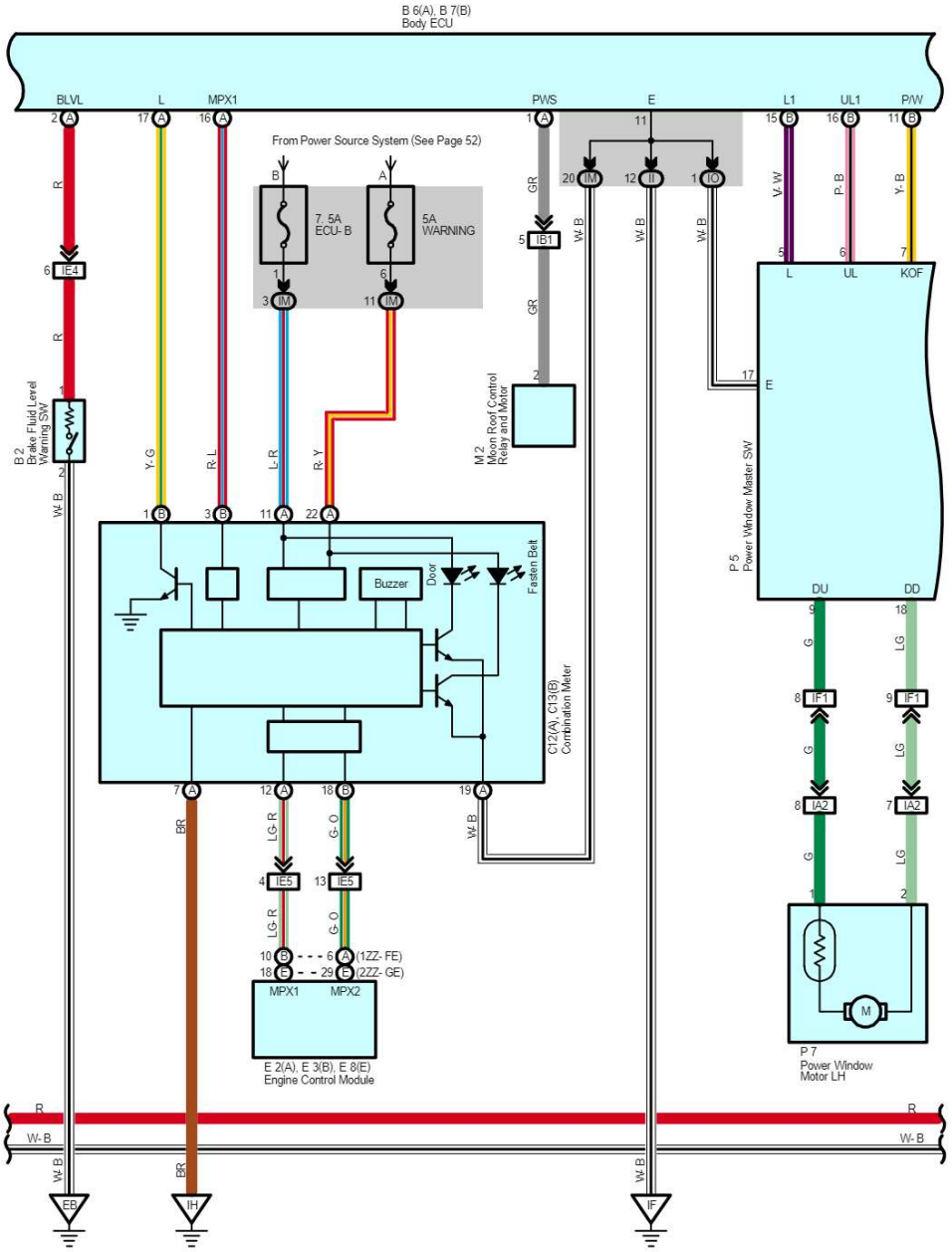

B 6(A), B 7(B)
Body ECU
CLTS
CLTE
CLTB
ACTD
LSWD
ACT+
L2
ACT-
LG-B
LG-R
G-W
L-R
B
L-W
BR
Y-B
G
A14
Automatic Light
Control Sensor
D 5
Door Key Lock and Unlock SW LH
Door Lock Detection SW LH
Door Lock Motor LH
D 6
Door Key Lock and Unlock SW RH
Door Lock Detection SW RH
Door Lock Motor RH
W-B
J11
Junction
Connector
J10
Junction
Connector
J3
Junction
Connector
R
IE
IH

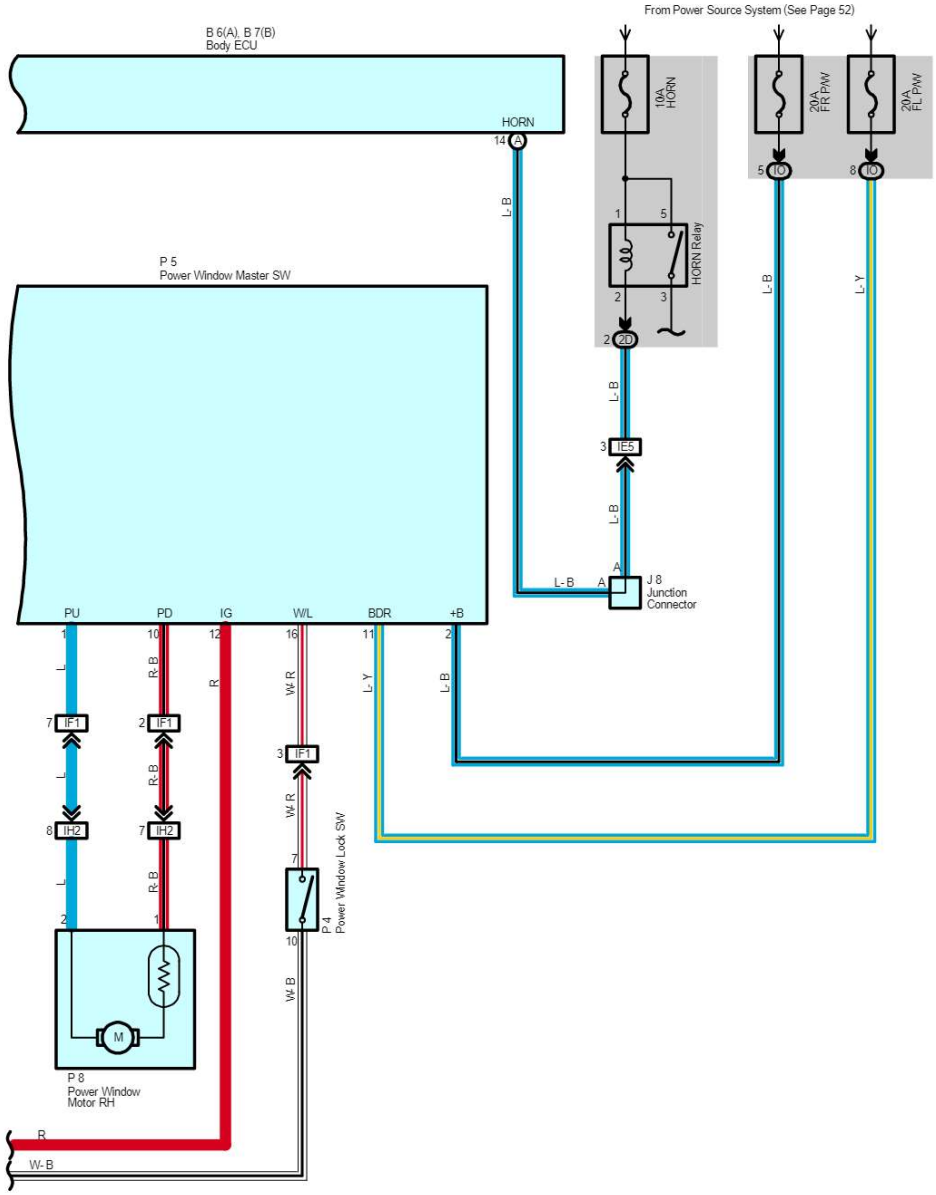

B 6(A), B 7(B)
Body ECU
UL3
LSWP
UL2
SG1
KSW
DCTY
PCTY
25
20
22
11
9
20
21
Y-B
G
Y-B
W-L
Y
R-Y
R
7
4
IO
IO
Y-B
G
Y-B
L-W
L-R
5
10
BA1
BA1
L-W
L-R
5
6
BB1
BB1
L-W
L-R
2
1
M
B10
Back Door Lock Motor
U1
Unlock Warning SW
2
1
Y
D3
Door Courtesy SW LH
1
D4
Door Courtesy SW RH
1

R
R
W-B
R
R
W-B


B 6(A), B 7(B)
Body ECU
PRG
RDA
SG2
DBKL
SG3
PBKL
9 B
10 B
1 B
7 B
2 B
14 B
From Power Source System
(See Page 52)
C
5A
TENS
RDC
1
14 IN
16 IN
R-B
V
W-L
L
W
L-Y
3
2
1
2
PRG
RDA
+B
GND
5
1
D 2
Door Control
Receiver
R
W-B
R-L
R-L
3
2
1
B 8
Buckle SW LH
R
T 3
Tension Reducer
Solenoid LH
3
2
1
B 9
Buckle SW RH
R-W
T 4
Tension Reducer
Solenoid RH
R
R
W-B
W-B
R
W-B
A
J14
Junction
Connector
BJ


* 3 : w/ Moon Roof
* 4 : w/o Moon Roof
B 6(A), B 7(B)
Body ECU
LP
LGCY
BLTW
SG4
PKB
FU-
FUA
FU+
From Power Source System
(See Page 52)
7. 5A
DOME
L-W
R-W
LG
P
W-R
R-B
BR-W
Y-R
Y-G
IB1
BB1
BA1
LBE+
E
FE
FR
FV
L3
Luggage Compartment
Light
DOOR
OFF
ON
M 3(A), P 6(B)
Personal Light
C 7
Center Airbag
Sensor Assembly
O 3
O/D Main SW
P 3
Parking Brake SW
F17
Fuel Sender
J12(A), J13(B)
Junction
Connector
L 4
Luggage Compartment
Light SW
R
W-B


B 6(A), B 7(B)
Body ECU
BLVL
L
MPX1
PWS
E
L1
UL1
P/W
From Power Source System (See Page 52)
7. 5A
ECU- B
5A
WARNING
B 2
Brake Fluid Level
Warning SW
M 2
Moon Roof Control
Relay and Motor
P 5
Power Window Master SW
Buzzer
Door
Fasten Belt
C12(A), C13(B)
Combination Meter
E 2(A), E 3(B), E 8(E)
Engine Control Module
MPX1
MPX2
(1ZZ- FE)
(2ZZ- GE)
P 7
Power Window
Motor LH
EB
IH
IF


From Power Source System (See Page 52)
B 6(A), B 7(B)
Body ECU
HORN
14
A
L-B
10A
HORN
20A
FR PW
20A
FL PW
5
10
8
10
1
5
2
3
HORN Relay
2
2D
L-B
L-Y
L-B
3
IE5
L-B
A
J 8
Junction
Connector
L-B
A
P 5
Power Window Master SW
PU
PD
IG
W-L
BDR
+B
1
10
12
16
11
2
L
R-B
R
W-R
L-Y
L-B
7
IF1
2
IF1
3
IF1
8
IH2
7
IH2
L
R-B
W-R
2
1
7
P 4
Power Window Lock SW
10
W-B
M
P 8
Power Window
Motor RH
R
W-B

Service Hints

Body ECU

3-Ground : Approx. 12 volts with ignition SW at ON or ST position
8-Ground : Always approx. 12 volts
5-Ground : Always approx. 12 volts
11-Ground : Always continuity
12-Ground : Approx. 12 volts with ignition SW at ACC or ON position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A9	36	D4	38	L4	38
A14	36	D5	38	M2	39
B2	32 (1ZZ-FE)	D6	38	M3 A	39
	34 (2ZZ-GE)	E2 A	32 (1ZZ-FE)	O3	37
B6 A	36	E3 B	32 (1ZZ-FE)	P3	37
B7 B	36	E8 E	34 (2ZZ-GE)	P4	37
B8	36	F17	38	P5	37
B9	36	J3	37	P6 B	39
B10	38	J8	37	P7	39
C7	36	J10	37	P8	39
C12 A	36	J11	38	T3	39
C13 B	36	J12 A	38	T4	39
C15	36	J13 B	38	U1	37
D2	38	J14	38		
D3	38	L3	38		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	27	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

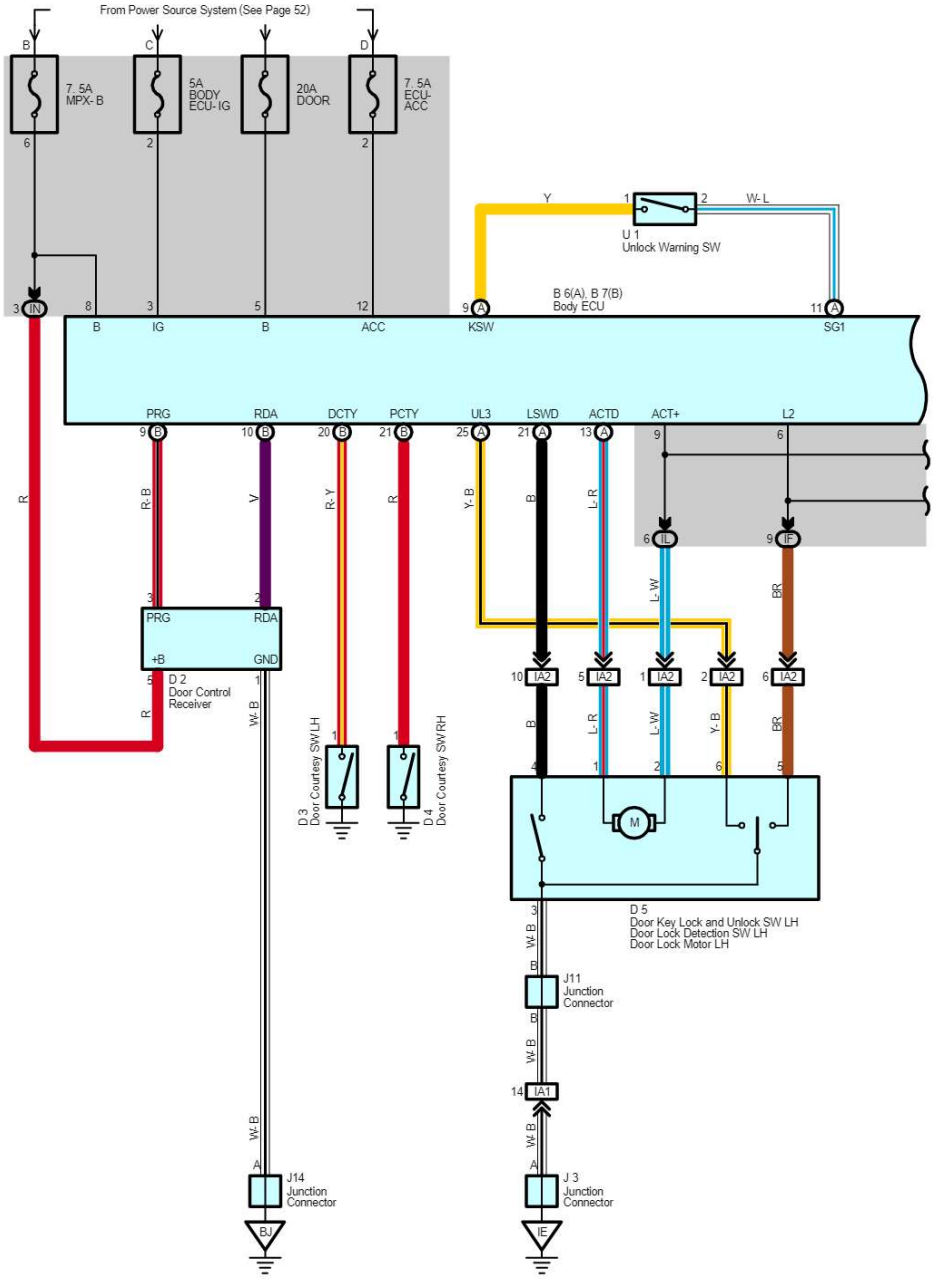
Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IB		
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IK		
IL		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO		
IP	25	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2E		
2F		
2H		

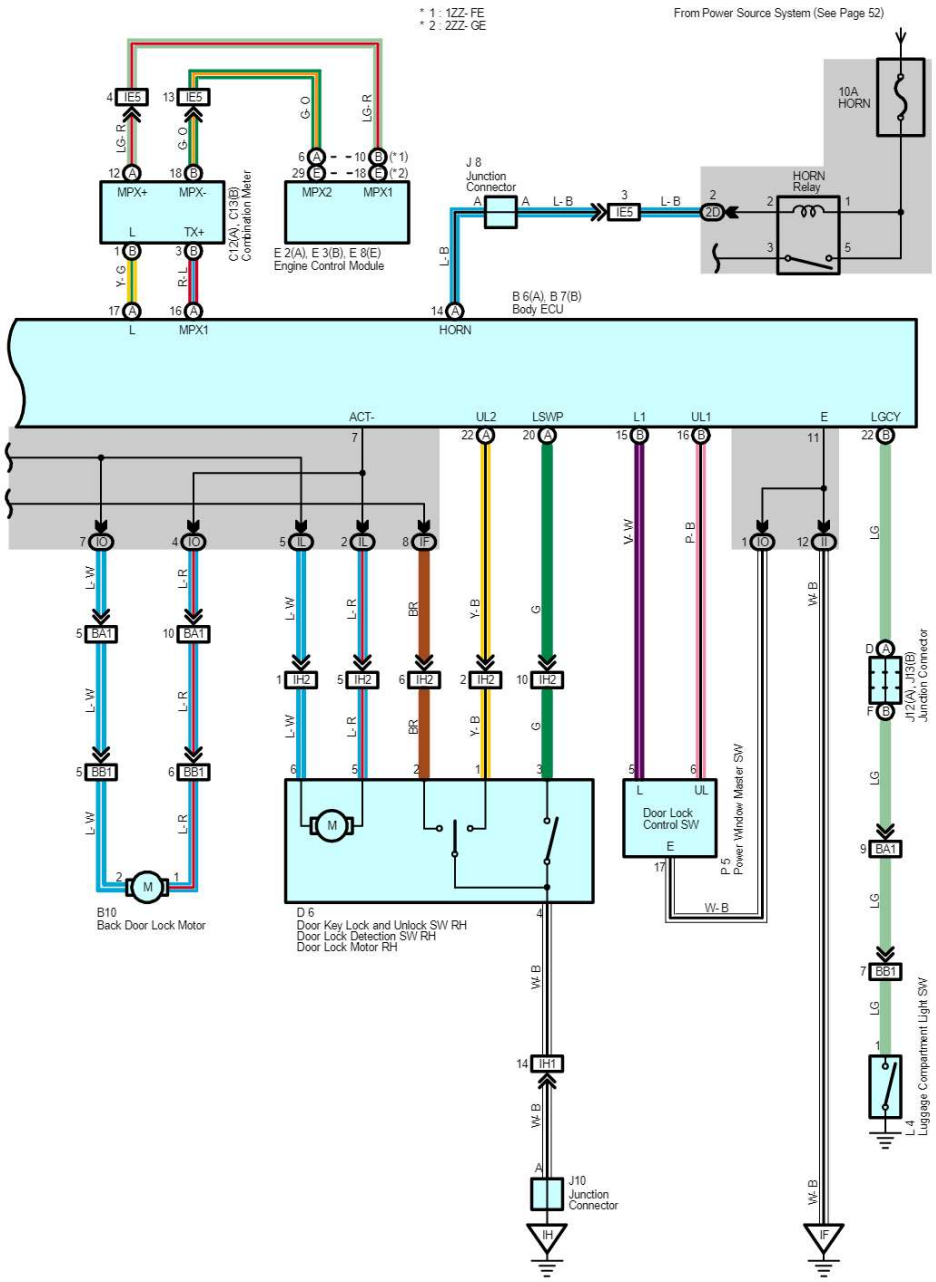
: **CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IB1	44	Roof Wire and Instrument Panel Wire (Left Kick Panel)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

: **GROUND POINTS**

Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH
BJ	48	Luggage Room Left


From Power Source System (See Page 52)
7. 5A MPX- B
5A BODY ECU- IG
20A DOOR
7. 5A ECU- ACC
U 1 Unlock Warning SW
B 6(A), B 7(B) Body ECU
PRG
RDA
DCTY
PCTY
UL3
LSWD
ACTD
ACT+
L2
D 2 Door Control Receiver
D 3 Door Courtesy SW LH
D 4 Door Courtesy SW RH
D 5 Door Key Lock and Unlock SW LH Door Lock Detection SW LH Door Lock Motor LH
J11 Junction Connector
J14 Junction Connector
J 3 Junction Connector


* 1 : 1ZZ-FE
* 2 : 2ZZ-GE
From Power Source System (See Page 52)
10A HORN
HORN Relay
J 8 Junction Connector
C12(A), C13(B) Combination Meter
E 2(A), E 3(B), E 8(E) Engine Control Module
B 6(A), B 7(B) Body ECU
ACT-
UL2
LSWP
L1
UL1
E
LGCY
B10 Back Door Lock Motor
D 6 Door Key Lock and Unlock SW RH
Door Lock Detection SW RH
Door Lock Motor RH
Door Lock Control SW
P5 Power Window Master SW
J12(A), J13(B) Junction Connector
L 4 Luggage Compartment Light SW
J10 Junction Connector

Wireless Door Lock Control

System Outline

In this system, the door control receiver receives weak radio wave transmitted from the transmitter built into the ignition key, and outputs signals to the body ECU. Through communication control of the body ECU, all the doors can be locked and unlocked by remote control.

1. Normal Operation

* Lock operation
  When the lock SW on the transmitter is pressed, all doors are locked.
* Unlock operation
  When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. Auto Lock Function

If the door is not opened within 30 seconds after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors will be locked automatically.

3. Wireless Door Lock Stop Function

If any of the following conditions is detected, the wireless door lock does not function.

* Lock operation
  Any door is open (The door courtesy SW is on). The ignition key is inserted into the ignition key cylinder (The unlock warning SW is on). The ignition SW is turned to the ON position.
* Unlock operation
  The ignition SW is turned to the ON position.

4. Buzzer Sound Function

The buzzer emits a sound when operating the transmitter, once for lock operation and twice for unlock operation.
When the lock SW is pressed while any door is open, the keyless buzzer goes on for 10 seconds. The buzzer will stop when all the doors are closed, or when unlocked with the unlock SW.

5. Illuminated Entry Function

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

6. Repeat Function

If the lock detection signal in response to the output signal is not received after the body ECU has output the lock signal, the lock signal is output again after approximately 2 sec.

7. Panic Function

When the panic SW on the transmitter is pressed, the panic mode is activated. The panic mode is canceled when the unlock SW or panic SW is pressed.

Service Hints

U1 Unlock Warning SW

2-1 : Closed with the ignition key in the cylinder

D2 Door Control Receiver

5-Ground : Always approx. 12 volts
1-Ground : Always continuity

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B6	A	36	D5		38	J11		38
B7	B	36	D6		38	J12	A	38
B10		38	E2	A	32 (1ZZ-FE)	J13	B	38
C12	A	36	E3	B	32 (1ZZ-FE)	J14		38
C13	B	36	E8	E	34 (2ZZ-GE)	L4		38
D2		38	J3		37	P5		37
D3		38	J8		37	U1		37
D4		38	J10		37			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

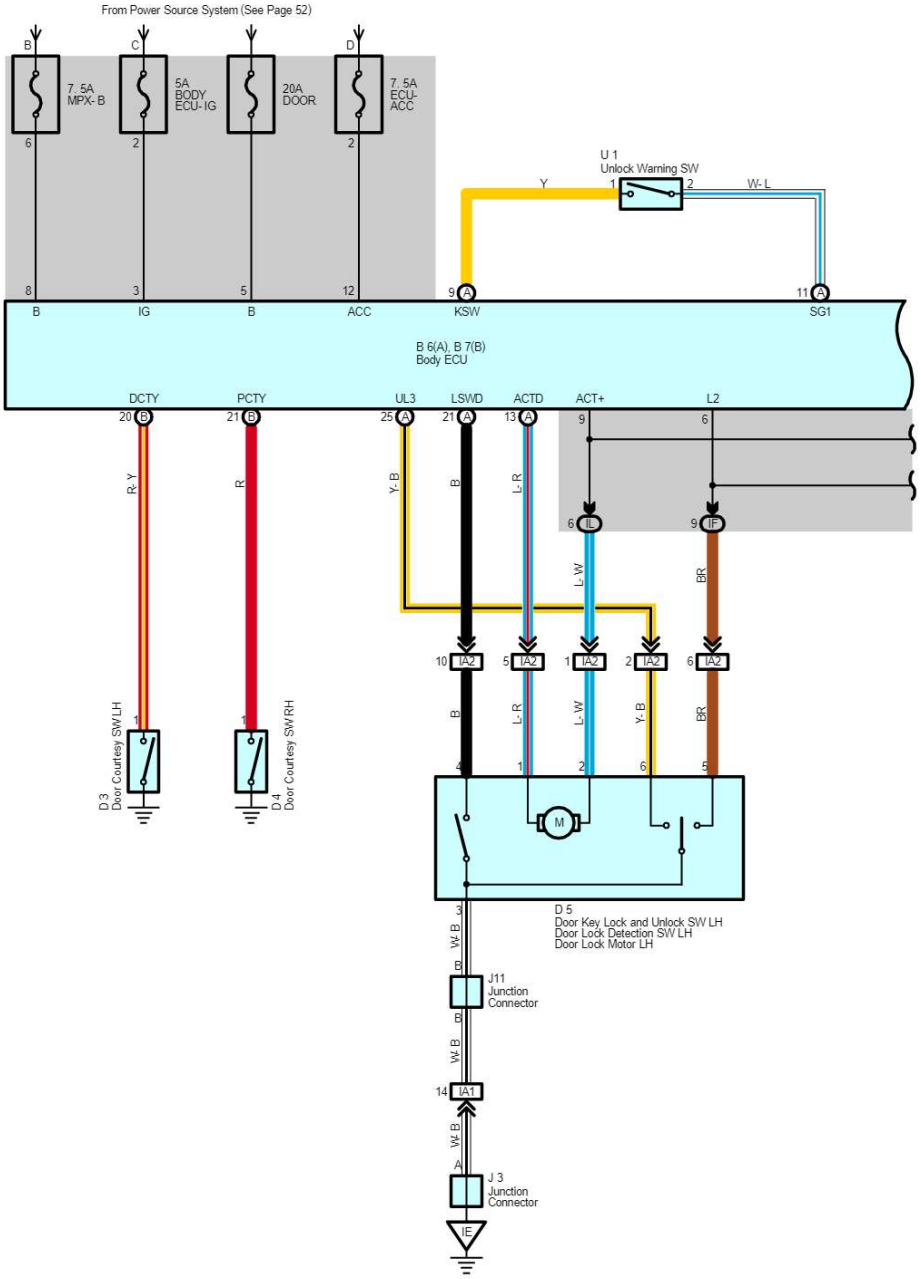
Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IL		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO		
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

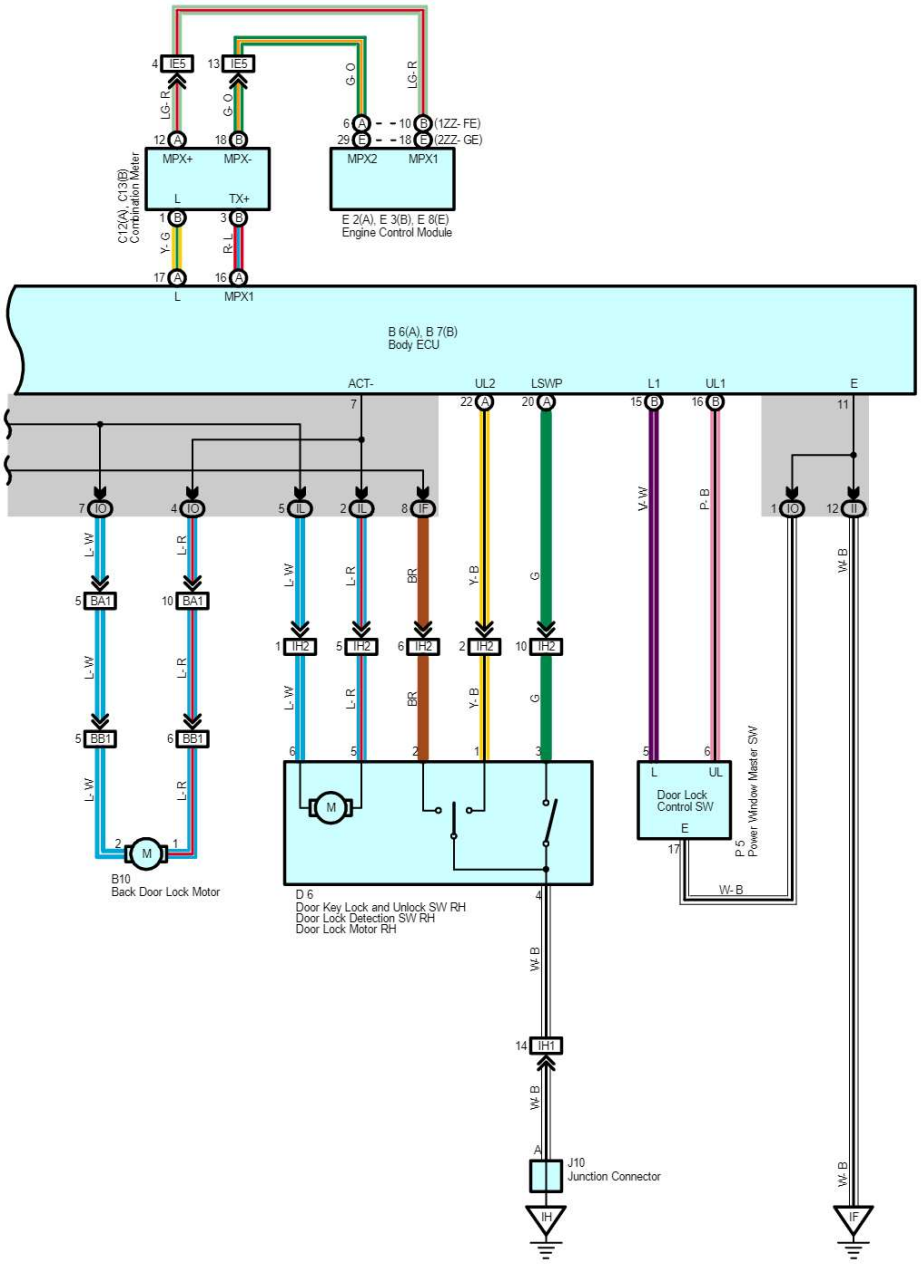
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2		
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH
BJ	48	Luggage Room Left


From Power Source System (See Page 52)
7. 5A MPX- B
5A BODY ECU- IG
20A DOOR
7. 5A ECU- ACC
U 1
Unlock Warning SW
Y
W- L
B
IG
B
ACC
KSW
SG1
B 6(A), B 7(B)
Body ECU
DCTY
PCTY
UL3
LSWD
ACTD
ACT+
L2
R- Y
R
Y- B
B
L- R
L- W
BR
D 3
Door Courtesy SW LH
D 4
Door Courtesy SW RH
D 5
Door Key Lock and Unlock SW LH
Door Lock Detection SW LH
Door Lock Motor LH
W- B
J11
Junction Connector
J 3
Junction Connector


4 IE5
13 IE5
LG-R
G-O
LG-R
G-O
6 A
29 E
10 B (1ZZ-FE)
18 E (2ZZ-GE)
12 A
18 B
MPX+
MPX-
MPX2
MPX1
L
TX+
C12(A), C13(B)
Combination Meter
1 B
3 B
Y-G
R-L
E 2(A), E 3(B), E 8(E)
Engine Control Module
17 A
16 A
L
MPX1
B 6(A), B 7(B)
Body ECU
ACT-
UL2
LSWP
L1
UL1
E
7
22 A
20 A
15 B
16 B
11
7 IO
4 ID
5 IL
2 IL
8 IF
1 IO
12 IL
V-W
P-B
W-B
L-W
L-R
BR
Y-B
G
5 BA1
10 BA1
1 IH2
5 IH2
6 IH2
2 IH2
10 IH2
5 BB1
6 BB1
M
2
1
B10
Back Door Lock Motor
D 6
Door Key Lock and Unlock SW RH
Door Lock Detection SW RH
Door Lock Motor RH
5
6
L
UL
Door Lock
Control SW
E
17
P 5
Power Window Master SW
W-B
4
14 IH1
A
J10
Junction Connector
IH
IF

Door Lock Control

System Outline

1. Manual Unlock Operation

When the door lock control SW on the center console is pressed to the UNLOCK, the signal is input to TERMINAL UL1 of the body ECU. The current flows from TERMINAL ACT- of the body ECU into the door lock motor to TERMINAL ACT+ of the body ECU to GROUND, to unlock the door.

2. Manual Lock Operation

When the door lock control SW on the center console is pressed to LOCK, signal is input to TERMINAL L1 of the body ECU. The current flows from TERMINAL ACT+ of the body ECU to door lock motor to TERMINAL ACT- of the body ECU to GROUND, to lock the door.

3. Door Key Unlock Operation

Unlock operation from driver door

When the door is unlocked once by the ignition key from the driver side, the signal from the door key lock and unlock SW in the door lock motor front LH is input to TERMINAL UL3 of the body ECU. This signal activates the body ECU to flow the current from TERMINAL ACT+ of the body ECU into the door lock motor front LH to TERMINAL ACT- of the body ECU to GROUND, to unlock only the driver door. Accordingly, if the second unlock operation is made within 3 sec. after the above unlock operation.

Unlock operation from passenger door

When the door is unlocked by the ignition key from the passenger side, the signal from the door key lock and unlock SW in the door lock motor front RH is input to TERMINAL UL2 of the body ECU. The current flows from TERMINAL ACT- of the body ECU into the door lock motor front RH to TERMINAL ACT+ of the body ECU to GROUND, to unlock all the doors at once.

4. Ignition Key Reminder Operation

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

Service Hints

D3, D4 Door Courtesy SW LH, RH

1-Ground : Closed with door open

P5 Power Window Master SW

5-17 : Closed with LOCK position
6-17 : Closed with UNLOCK position

D5 Door Key Lock and Lock SW, Door Lock Detection SW and Door Lock Motor LH

2-Ground : Approx. 12 volts with door lock motor at lock operate
1-Ground : Approx. 12 volts with door lock motor at unlock operate
5-3 : Closed with door lock cylinder locked with key
6-3 : Closed with door lock cylinder unlocked with key

D6 Door Key Lock and Lock SW, Door Lock Detection SW and Door Lock Motor RH

6-Ground : Approx. 12 volts with door lock motor at lock operate
5-Ground : Approx. 12 volts with door lock motor at unlock operate
2-4 : Closed with door lock cylinder locked with key
1-4 : Closed with door lock cylinder unlocked with key

○ : **PARTS LOCATION**

Code		See Page	Code		See Page	Code	See Page
B6	A	36	D4		38	J3	37
B7	B	36	D5		38	J10	37
B10		38	D6		38	J11	38
C12	A	36	E2	A	32 (1ZZ-FE)	P5	37
C13	B	36	E3	B	32 (1ZZ-FE)	U1	37
D3		38	E8	E	34 (2ZZ-GE)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

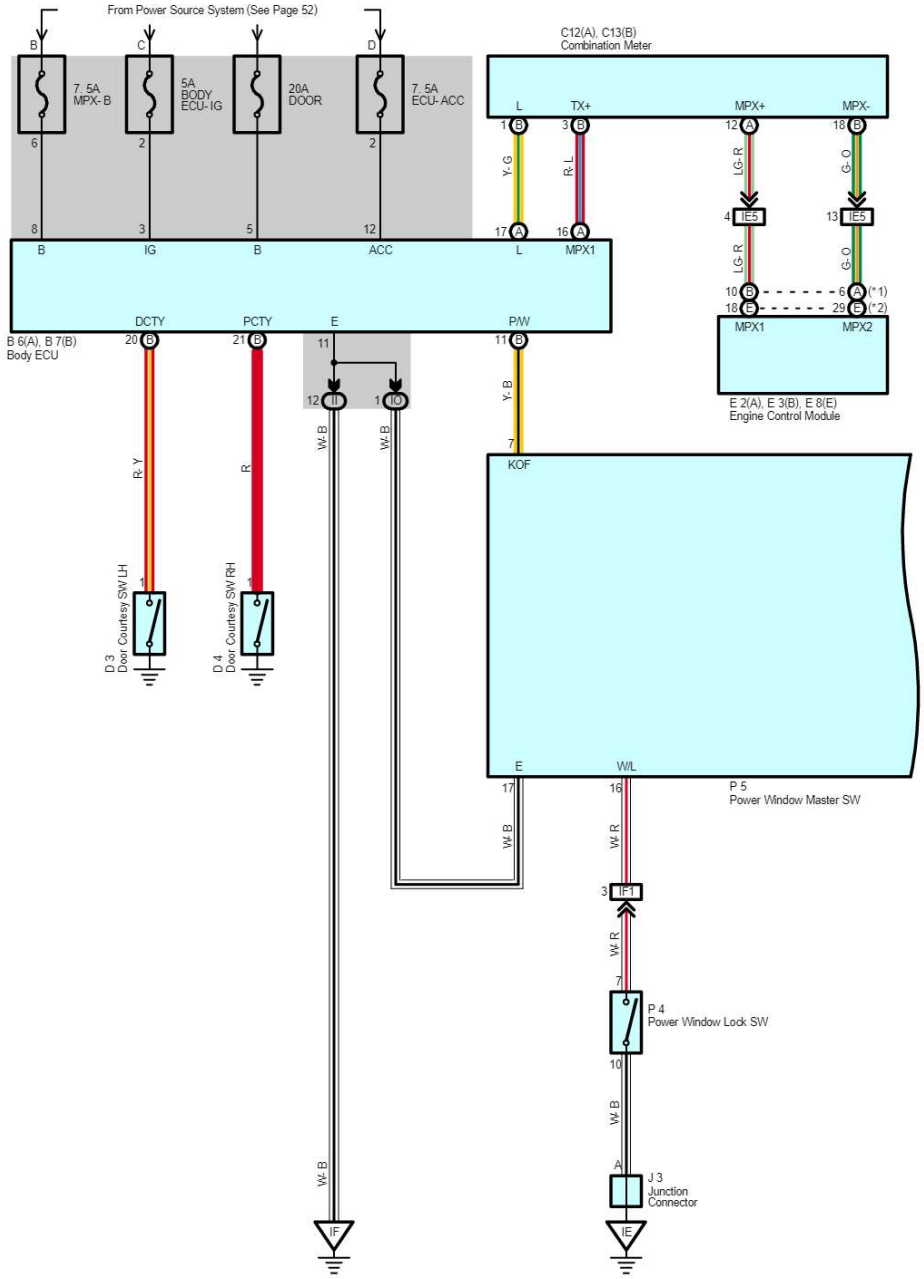
Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IL		
IO	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

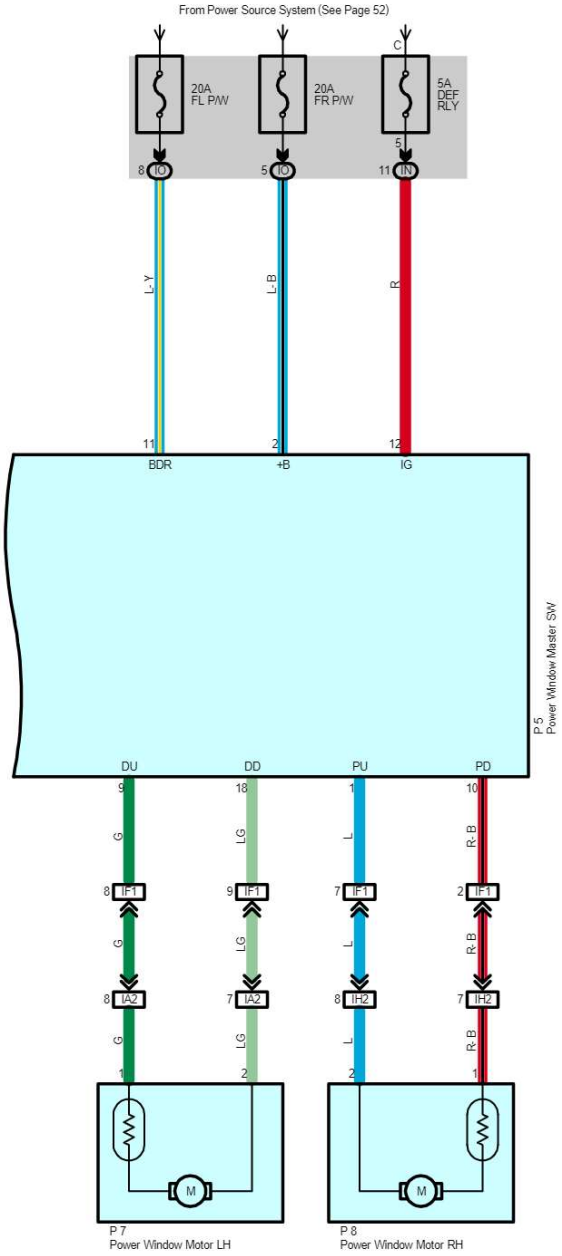
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2		
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH


From Power Source System (See Page 52)
7.5A MPX-B
5A BODY ECU-IG
20A DOOR
7.5A ECU-ACC
C12(A), C13(B) Combination Meter
L
TX+
MPX+
MPX-
Y-G
R-L
LG-R
G-O
IE5
B
IG
ACC
MPX1
MPX2
(*1)
(*2)
DCTY
PCTY
E
P/W
B 6(A), B 7(B) Body ECU
R-Y
R
W-B
Y-B
KOF
D 3 Door Courtesy SW LH
D 4 Door Courtesy SW RH
E 2(A), E 3(B), E 8(E) Engine Control Module
W/L
W-R
IF1
P 5 Power Window Master SW
P 4 Power Window Lock SW
J 3 Junction Connector
IF
IE


From Power Source System (See Page 52)
* 1 : 1ZZ- FE
* 2 : 2ZZ- GE
20A
FL P/W
20A
FR P/W
C
5A
DEF
RLY
5
8 IO
5 IO
11 IN
L-Y
L-B
R
11
2
12
BDR
+B
IG
P 5
Power Window Master SW
DU
DD
PU
PD
9
18
1
10
G
LG
L
R-B
8 IF1
9 IF1
7 IF1
2 IF1
8 IA2
7 IA2
8 IH2
7 IH2
1
2
2
1
M
M
P 7
Power Window Motor LH
P 8
Power Window Motor RH

Power Window

System Outline

1. Manual Operation by Power Window SW (Driver's Window)

With the ignition SW turned on and with the power window master SW (Driver's side) in UP position, current to TERMINAL 2 of the power window master SW flows to TERMINAL 9 of the master SW to TERMINAL 1 of the power window motor LH to motor to TERMINAL 2 to TERMINAL 17 of the master SW to GROUND, causing the power window motor to rotate in the up direction. The window ascends only while the SW is being pushed. In down operation, the flow of current from TERMINAL 2 of the power window master SW to TERMINAL 18 of the master SW causes the flow of current from TERMINAL 2 of the motor to motor to TERMINAL 1 to TERMINAL 9 of the master SW to TERMINAL 17 to GROUND, flowing in the opposite direction to manual up operation, causing the motor to rotate in reverse and lowering the window.

2. Auto Down Operation (Driver's Window)

With the ignition SW on and the driver's SW of the power window master SW in DOWN position, current to TERMINAL 2 of the master SW flows to TERMINAL 18 of the master SW to TERMINAL 2 of the power window motor LH to motor to TERMINAL 1 to TERMINAL 9 of the master SW to TERMINAL 17 to GROUND, causing the motor to rotate towards the down side. Then the control unit in the master SW is activated and it locks the driver's SW being pushed, causing the motor to continue to rotate in auto down operation.
When the window has completely descended, the current flowing between TERMINAL 9 of the master SW and TERMINAL 17 increases. As a result, the solenoid stops operating, the driver's SW turns off and the flow from TERMINAL 2 of the master SW to TERMINAL 18 is cut off, stopping the motor so that auto stop occurs.

3. Stopping of Auto Down Operation (Driver's Window)

When the driver's SW is pushed to the up side during auto down operation, a ground circuit opens in the master SW and current does not flow from TERMINAL 9 of the master SW to TERMINAL 16, so the motor stops, causing auto down operation to stop. If the driver's SW is pushed continuously, the motor rotates in the up direction in manual up operation.

4. Manual Operation by Power Window SW (Passenger's Window)

With power window master SW (Passenger's side) pushed to the up side, current from TERMINAL 11 of the power window master SW flows to TERMINAL 1 of the power window master SW to TERMINAL 2 of the window motor RH to motor to TERMINAL 1 to TERMINAL 10 of the power window master SW to TERMINAL 16 to TERMINAL 7 of the window lock SW to TERMINAL 10 to GROUND, causing the power window motor RH to rotate in the up direction. Up operation continues only while the power window master SW is pushed to the up side. When the window descends, current to the motor flows in the opposite direction, from TERMINAL 1 to motor to TERMINAL 2, and the motor rotates in reverse. When the window lock SW is pushed out to the normal side, the ground circuit to the passenger's window becomes open.
As a result, even if Open/Close operation of the passenger's window is tried, current from TERMINAL 11 of the power window master SW is not grounded and the motor does not rotate, so the passenger's window cannot be operated and window lock occurs.

5. Key Off Power Window Operation

Within approx. 43 sec. after the ignition SW is turned from on to off, the power window can be operated. However, if the driver or passenger door is opened during this period of time, the power window operation is stopped even through 43 sec. have not elapsed.

Service Hints

D3, D4 Door Courtesy SW LH, RH

1-Ground : Closed with the door open

P5 Power Window Master SW

17-Ground : Always continuity
12-Ground : Approx. 12 volts with the ignition SW on
9-Ground : Approx. 12 volts with the ignition SW at ON position and the master SW at UP position
18-Ground : Approx. 12 volts with the ignition SW at ON position and the master SW at DOWN or AUTO DOWN position

P4 Power Window Lock SW

7-10 : Open with the window lock SW at LOCK position

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
B6	A	36	D4		38	P4	37
B7	B	36	E2	A	32 (1ZZ-FE)	P5	37
C12	A	36	E3	B	32 (1ZZ-FE)	P7	39
C13	B	36	E8	E	34 (2ZZ-GE)	P8	39
D3		38	J3		37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

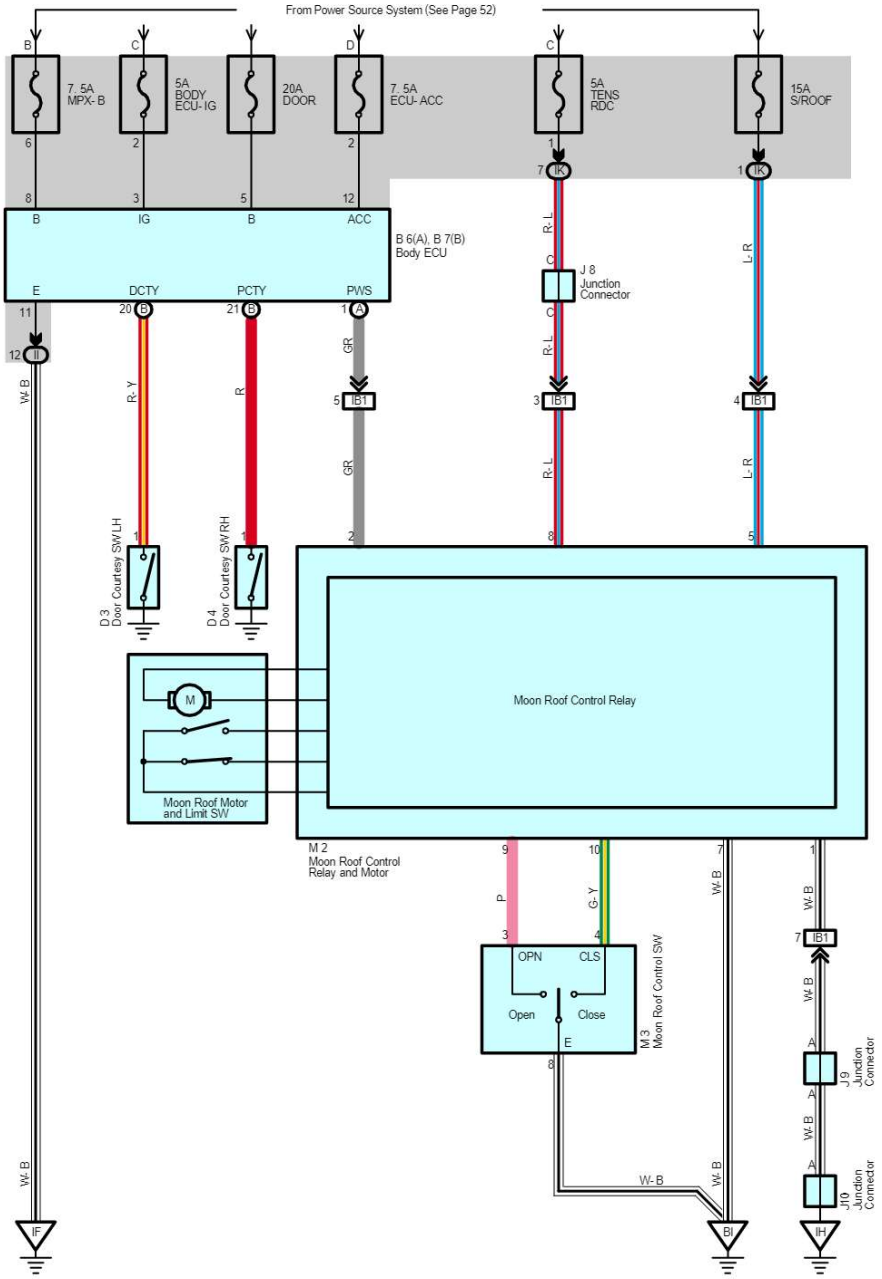
Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IH2	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH


From Power Source System (See Page 52)
7.5A MPX-B
5A BODY ECU-IG
20A DOOR
7.5A ECU-ACC
5A TENS RDC
15A S/ROOF
B 6(A), B 7(B) Body ECU
J 8 Junction Connector
Door Courtesy SW LH
Door Courtesy SW RH
Moon Roof Control Relay
Moon Roof Motor and Limit SW
M 2 Moon Roof Control Relay and Motor
M 3 Moon Roof Control SW
OPN
CLS
Open
Close
J 9 Junction Connector
J10 Junction Connector

System Outline

Key Off Moon Roof Operation

Within approx. 43 sec. after the ignition SW is turned from on to off, the moon roof can be operated. However, if the driver or passenger door is opened during this period of time, the moon roof operation is stopped even through 43 sec. have not elapsed.

Service Hints

M2 Moon Roof Control Relay and Motor

1, 7-Ground : Always continuity
8-Ground : Approx. 12 volts with the ignition SW at ON position
10-Ground : Approx. 12 volts with the ignition SW on and the moon roof control SW at CLOSE or UP position
9-Ground : Approx. 12 volts with the ignition SW on and the moon roof control SW at OPEN or DOWN position

M3 Moon Roof Control SW

4-8 : Closed with the moon roof control SW at CLOSE position
3-8 : Closed with the moon roof control SW at OPEN position
8-Ground : Always continuity

: PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B6	A	36	D4	38	J10	37
B7	B	36	J8	37	M2	39
D3		38	J9	37	M3	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		

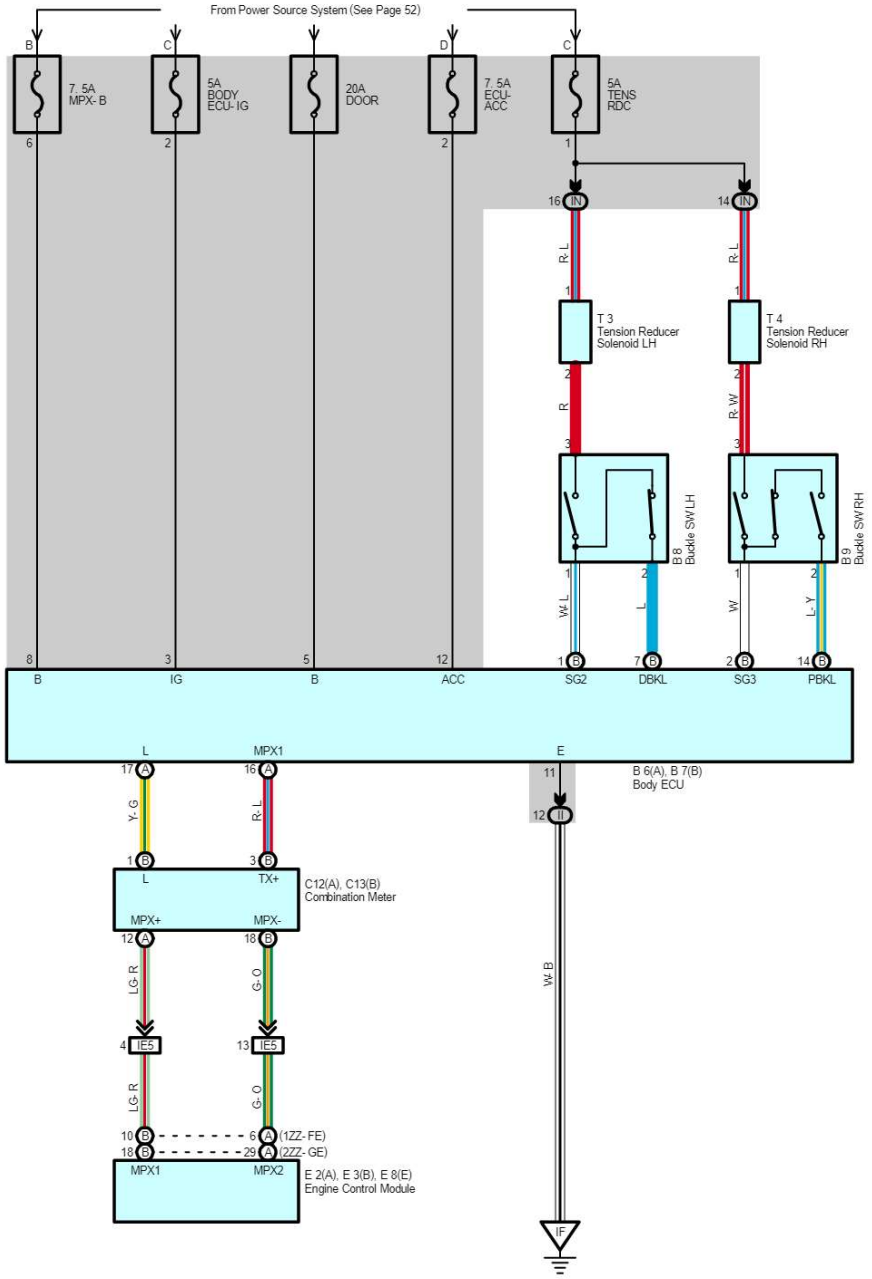
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	44	Roof Wire and Instrument Panel Wire (Left Kick Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH
BI	48	Roof Left

Electric Tension Reducer



Service Hints

B8 Buckle SW LH

1-3 : Closed with the driver's seat belt in use

B9 Buckle SW RH

1-3 : Closed with the passenger's seat belt in use

T3, T4 Tension Reducer Solenoid LH, RH

1-Ground : Approx. 12 volts with the ignition SW at ON position

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B6	A	36	C12	A	36	E8	E	34 (2ZZ-GE)
B7	B	36	C13	B	36	T3		39
B8		36	E2	A	32 (1ZZ-FE)	T4		39
B9		36	E3	B	32 (1ZZ-FE)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

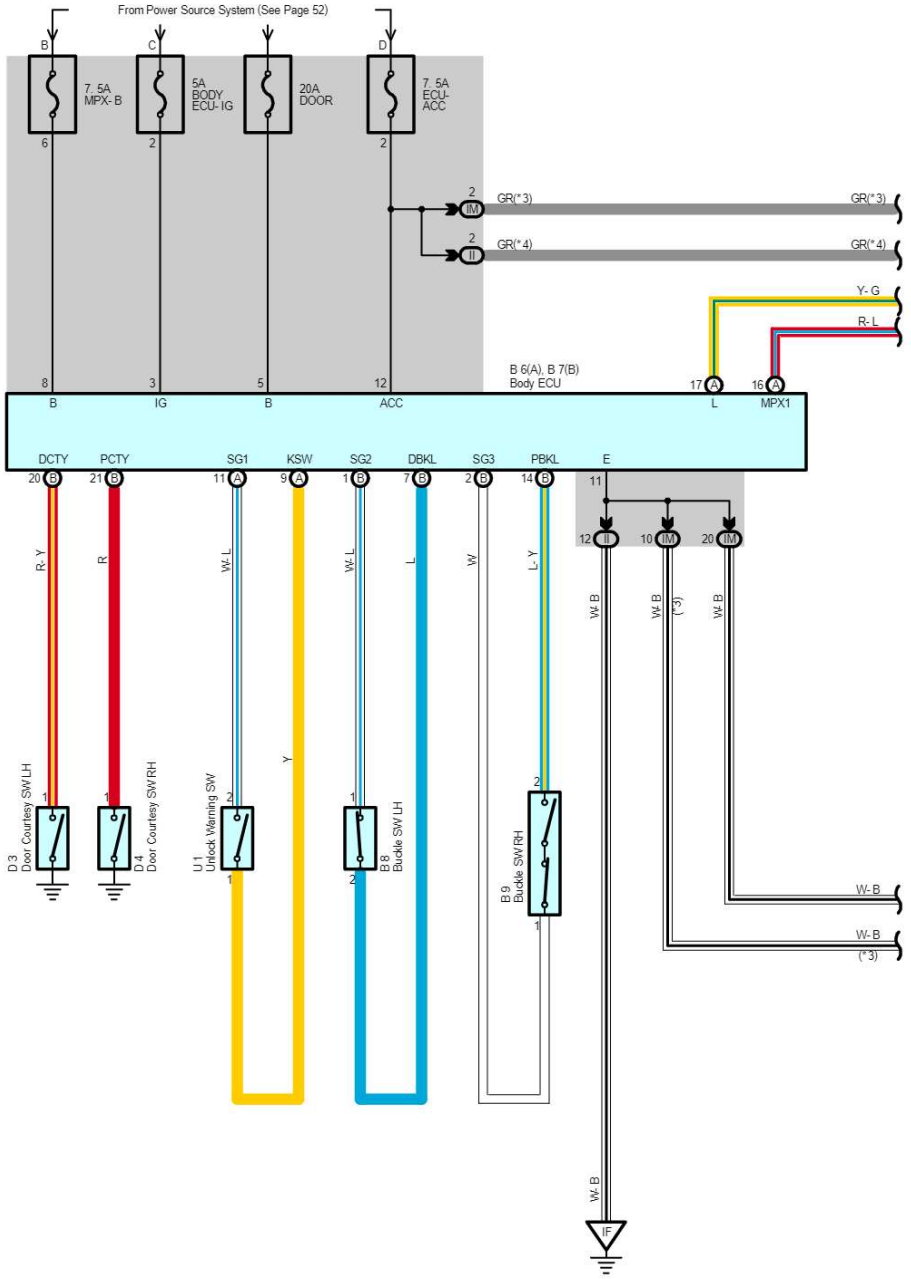
Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

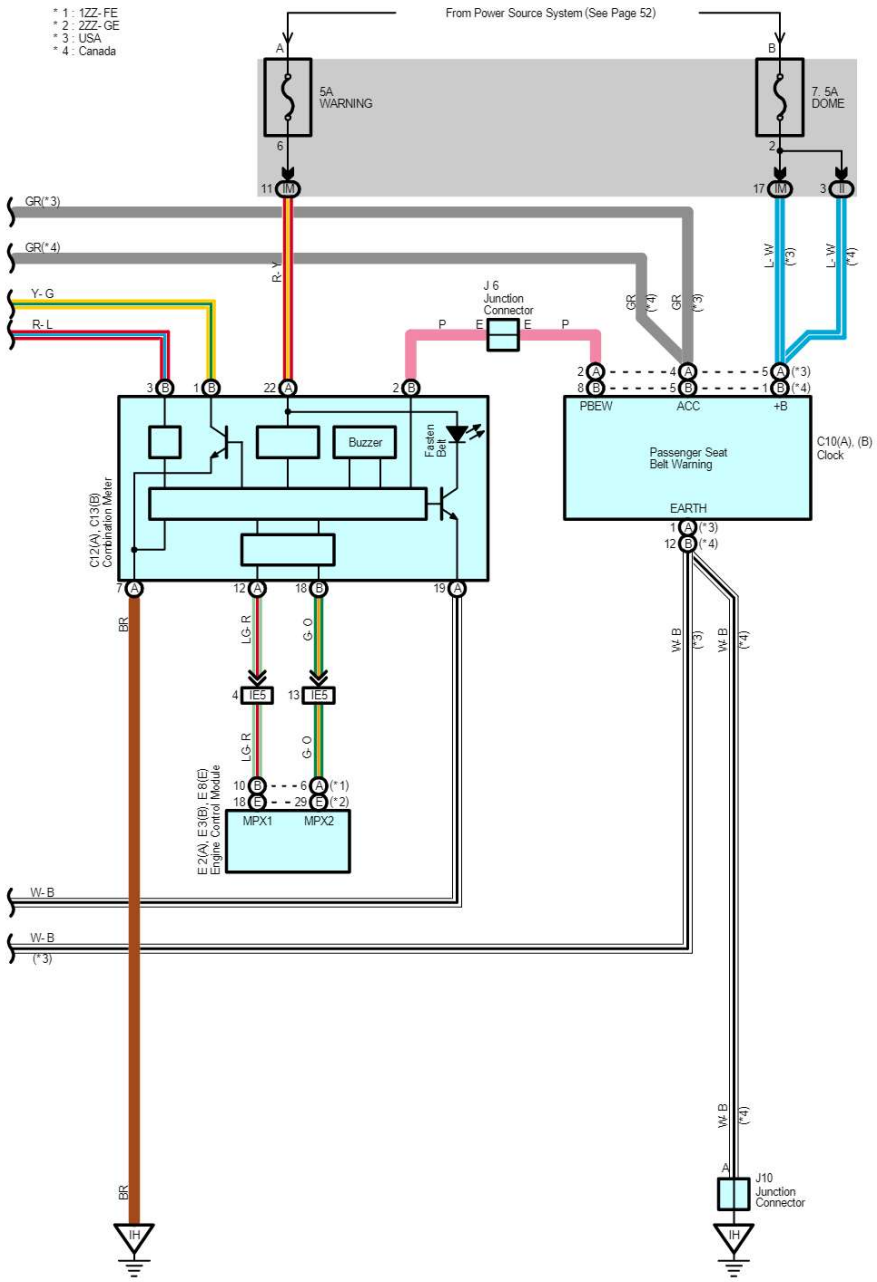
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH


From Power Source System (See Page 52)
B
C
D
7.5A MPX-B
5A BODY ECU-IG
20A DOOR
7.5A ECU-ACC
6
2
2
2
GR(*3)
GR(*3)
2
GR(*4)
GR(*4)
Y-G
R-L
8
3
5
12
B 6(A), B 7(B) Body ECU
17
16
B
IG
B
ACC
L
MPX1
DCTY
PCTY
SG1
KSW
SG2
DBKL
SG3
PBKL
E
20
21
11
9
1
7
2
14
11
12
10
20
R-Y
R
W-L
W-L
L
W
L-Y
W-B
W-B
(*3)
W-B
D3 Door Courtesy SW LH
D4 Door Courtesy SW RH
U1 Unlock Warning SW
B8 Buckle SW LH
B9 Buckle SW RH
Y
W-B
W-B
(*3)
W-B
IF


* 1 : 1ZZ-FE
* 2 : 2ZZ-GE
* 3 : USA
* 4 : Canada
From Power Source System (See Page 52)
5A
WARNING
7. 5A
DOME
GR(*3)
GR(*4)
R-Y
Y-G
R-L
J 6
Junction
Connector
L-W
(*3)
L-W
(*4)
GR
(*4)
GR
(*3)
PBEW
ACC
+B
Passenger Seat
Belt Warning
EARTH
C10(A), (B)
Clock
C12(A), C13(B)
Combination Meter
Buzzer
Fasten
Belt
BR
LG-R
G-O
IE5
E2(A), E3(B), E8(E)
Engine Control Module
MPX1
MPX2
W-B
W-B
(*3)
W-B
(*3)
W-B
(*4)
W-B
(*4)
J10
Junction
Connector
IH
IH

Key Reminder and Seat Belt Warning

System Outline

1. Seat Belt Warning System

When the ignition SW is turned to the ON position, the signal is input to the body ECU. At this time, to determine whether or not the driver fastens the seat belt, the signal from the buckle SW LH is input to TERMINAL DBKL of the body ECU. If the driver does not fasten the seat belt, the seat belt warning light in the combination meter flashes and the alarm buzzer goes on, in response to the communication control of the body ECU etc.
Additionally, the sensor (Inside of buckle SW RH) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.
If the passenger does not fasten the seat belt, the front passenger seat belt warning light is flashed.

2. Key Reminder System

If the driver door is opened with the ignition SW set at the ACC or OFF position and the ignition key remained inserted into the key cylinder (The unlock warning SW is on), the signal from the unlock warning SW is input to TERMINAL KSW of the body ECU and the signal from the door courtesy SW LH is input to TERMINAL DCTY of body ECU. As a result, through communication control of the body ECU etc. the buzzer in the combination meter goes on to warn the driver that the ignition key is still inserted.

Service Hints

B8 Buckle SW LH
1-2 : Opened with the driver's seat belt in use

D3 Door Courtesy SW LH
1-Ground : Closed with the LH door open

U1 Unlock Warning SW
2-1 : Closed with the ignition key in the cylinder

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B6	A	36	C12	A	36	E8	E	34 (2ZZ-GE)
B7	B	36	C13	B	36	J6		37
B8		36	D3		38	J10		37
B9		36	D4		38	U1		37
C10	A	36	E2	A	32 (1ZZ-FE)			
	B	36	E3	B	32 (1ZZ-FE)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

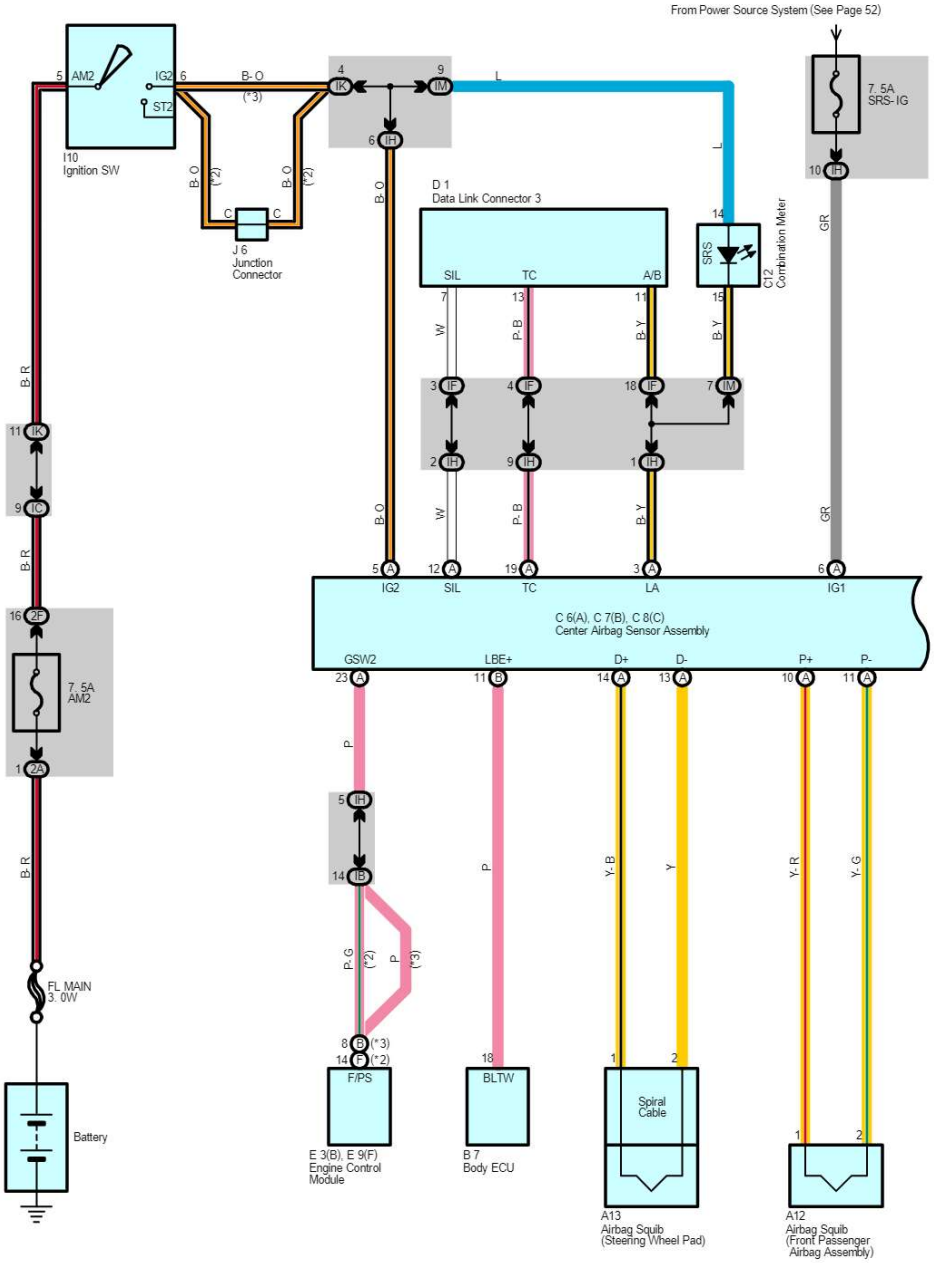
▽ : GROUND POINTS

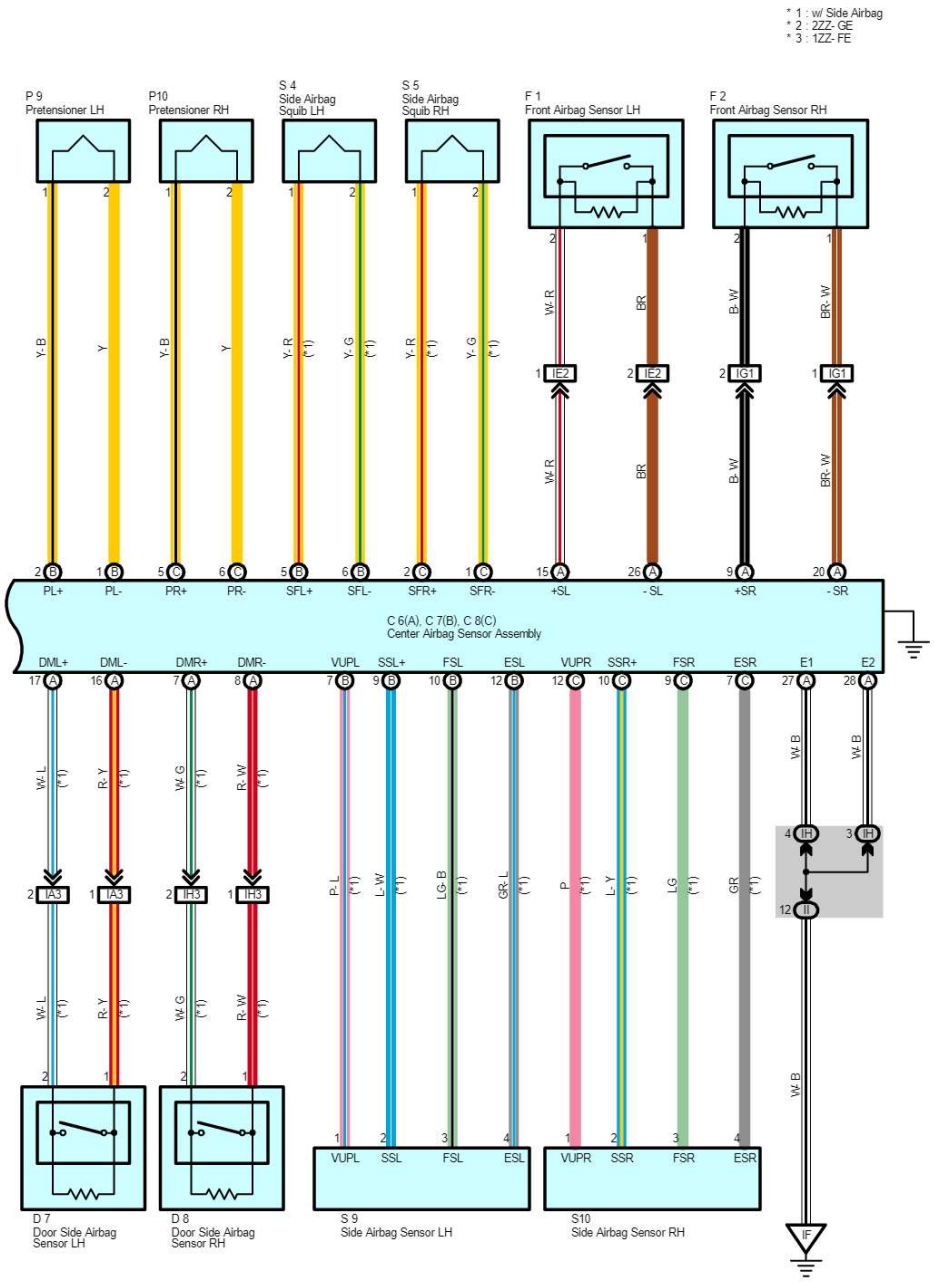
Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

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
- Seat belt pretensioner
- Center airbag sensor assembly
- Front airbag sensor assembly
- Door side airbag sensor assembly
- Side airbag sensor assembly


From Power Source System (See Page 52)
I10
Ignition SW
AM2
IG2
ST2
B-O
(*3)
J 6
Junction
Connector
(*2)
D 1
Data Link Connector 3
SIL
TC
A/B
SRS
C12
Combination Meter
7. 5A
SRS- IG
GR
L
W
P- B
B- Y
B- O
B- R
7. 5A
AM2
FL MAIN
3. 0W
Battery
C 6(A), C 7(B), C 8(C)
Center Airbag Sensor Assembly
IG2
SIL
TC
LA
IG1
GSW2
LBE+
D+
D-
P+
P-
P
P- G
Y- B
Y
Y- R
Y- G
(*2)
(*3)
F/PS
E 3(B), E 9(F)
Engine Control
Module
BLTW
B 7
Body ECU
Spiral
Cable
A13
Airbag Squib
(Steering Wheel Pad)
A12
Airbag Squib
(Front Passenger
Airbag Assembly)


* 1 : w/ Side Airbag
* 2 : 2ZZ- GE
* 3 : 1ZZ- FE
P 9
Pretensioner LH
P10
Pretensioner RH
S 4
Side Airbag
Squib LH
S 5
Side Airbag
Squib RH
F 1
Front Airbag Sensor LH
F 2
Front Airbag Sensor RH
PL+
PL-
PR+
PR-
SFL+
SFL-
SFR+
SFR-
+SL
- SL
+SR
- SR
C 6(A), C 7(B), C 8(C)
Center Airbag Sensor Assembly
DML+
DML-
DMR+
DMR-
VUPL
SSL+
FSL
ESL
VUPR
SSR+
FSR
ESR
E1
E2
D 7
Door Side Airbag
Sensor LH
D 8
Door Side Airbag
Sensor RH
S 9
Side Airbag Sensor LH
S10
Side Airbag Sensor RH

System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is on does, current from the SRS-IG fuse flows to TERMINAL (A) 6.
If an accident occurs while driving, deceleration caused by a frontal impact is detected by each of the sensor and the switch, in the center airbag sensor assembly and when the frontal impact exceeds a set level (When the safing sensor built into the center airbag sensor assembly is on and the center airbag sensor is on, the front airbag sensor are off), current from the SRS-IG fuse flows to TERMINALS (A) 14, (A) 10 of the center airbag sensor assembly to TERMINAL 1 of the airbag squib to TERMINAL 2 to TERMINALS (A) 13, (A) 11 of the center airbag sensor assembly to TERMINAL (A) 27, TERMINAL (A) 28 or BODY GROUND to GROUND.
When the safing sensor built into the center airbag sensor assembly is on and the front airbag sensor LH or RH is on, the center airbag sensor is off and current from the SRS-IG fuse flows to TERMINALS (A) 14, (A) 10 of the center airbag sensor assembly to TERMINAL 1 of the airbag squib to TERMINAL 2 to TERMINALS (A) 13, (A) 11 of the center airbag sensor assembly to TERMINAL (A) 9 or (A) 15 to TERMINAL 2 of the front airbag sensor to TERMINAL 1 to TERMINAL (A) 20 or (A) 26 of the center airbag sensor assembly to TERMINAL (A) 27, TERMINAL (A) 28 or BODY GROUND to GROUND, when the safing sensor built into the center airbag sensor assembly is on, and the front airbag sensor LH or RH is on and the center airbag sensor is on, one of the above-mentioned circuits is activated so that current flows to the airbag squibs, causing it to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
Simultaneously, the airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the passenger.

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A12	36	D7	38	I10	37
A13	36	D8	38	J6	37
B7	36	E3 B	32 (1ZZ-FE)	P9	39
C6 A	36	E9 F	34 (2ZZ-GE)	P10	39
C7 B	36	F1	32 (1ZZ-FE)	S4	37
C8 C	36		34 (2ZZ-GE)	S5	37
C12	36	F2	32 (1ZZ-FE)	S9	39
D1	36		34 (2ZZ-GE)	S10	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

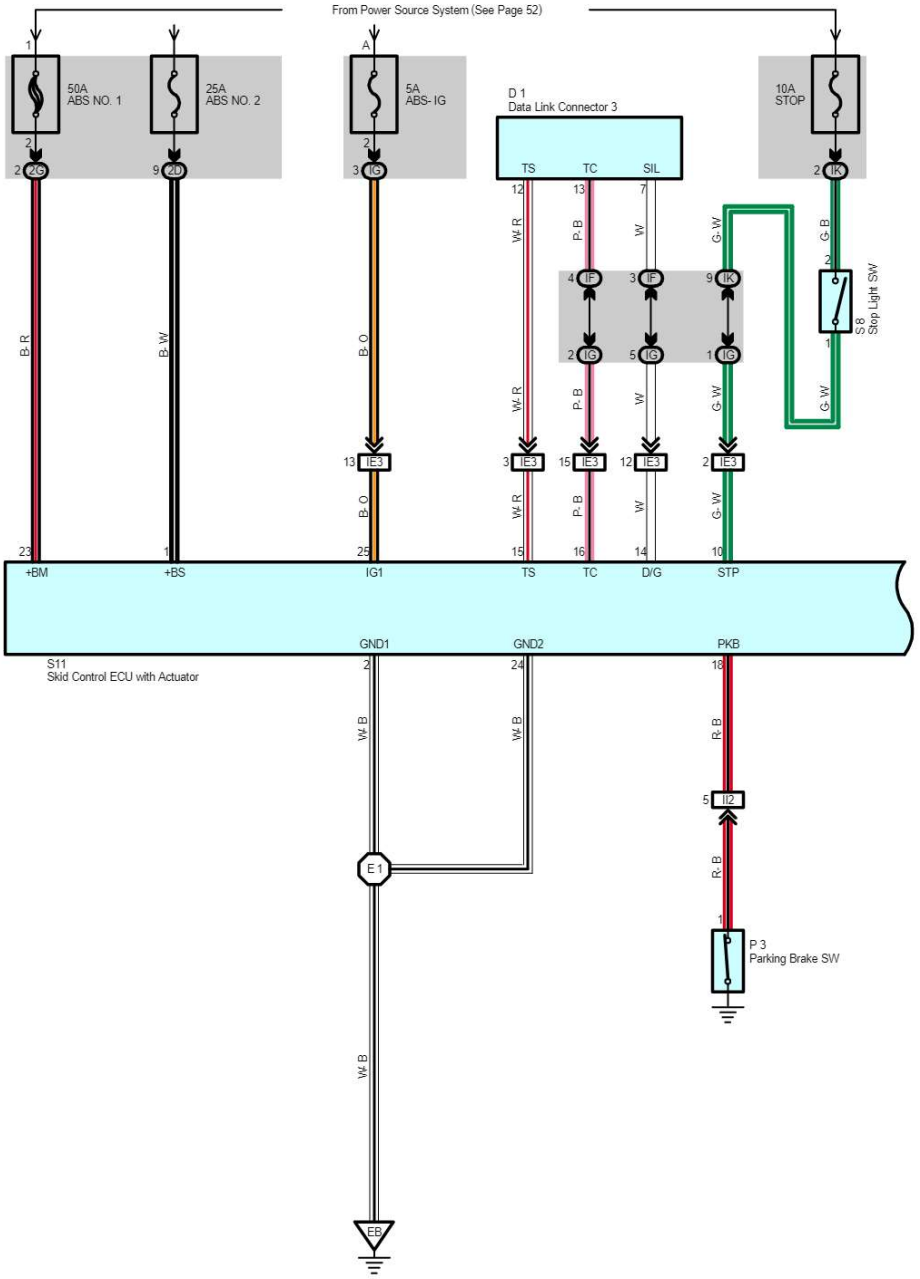
Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IH		
II		
IK		
IM		
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

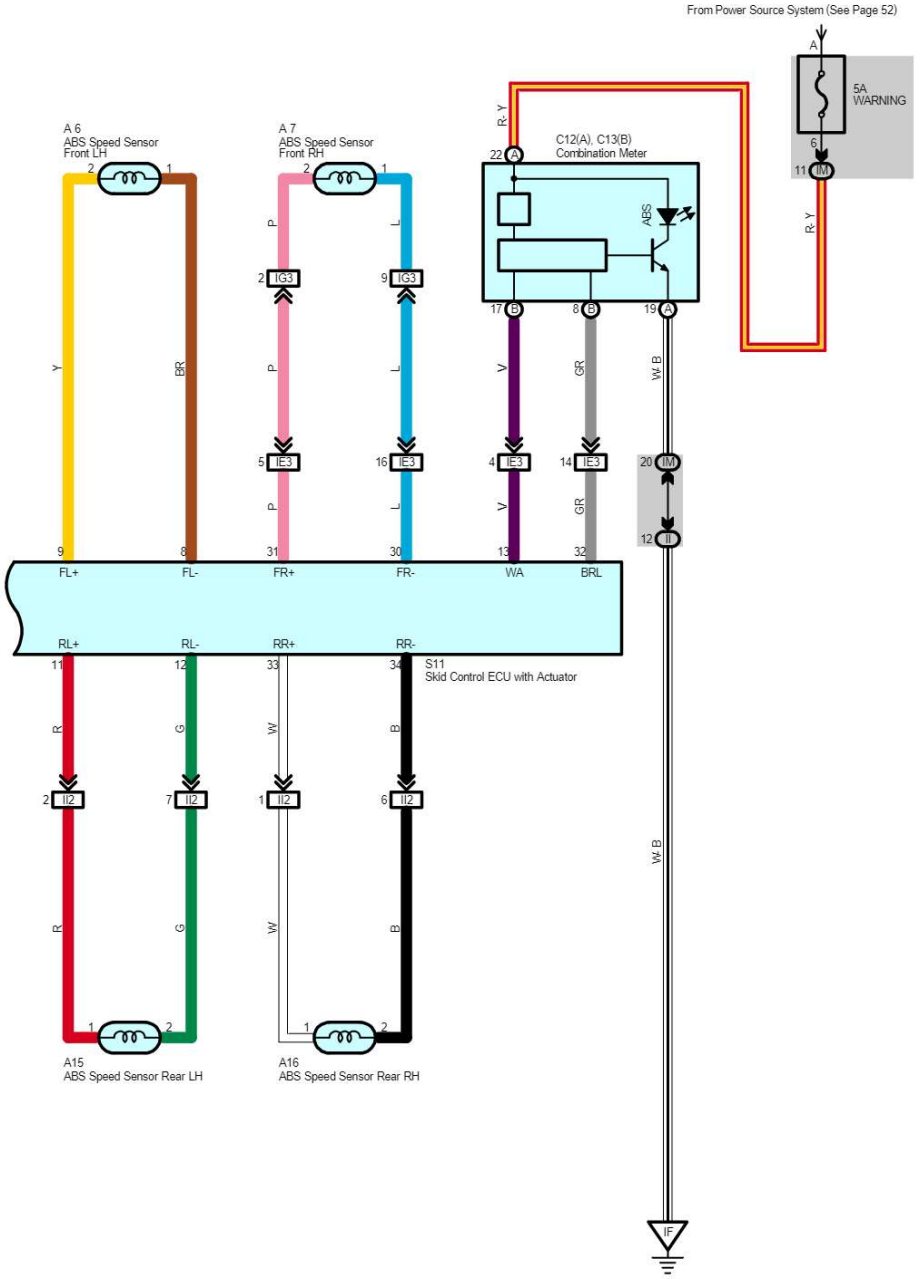
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG1	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IH3	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH


From Power Source System (See Page 52)
50A
ABS NO. 1
25A
ABS NO. 2
5A
ABS- IG
10A
STOP
D 1
Data Link Connector 3
TS
TC
SIL
B-R
B-W
B-O
W-R
P-B
W
G-W
G-B
S8
Stop Light SW
+BM
+BS
IG1
TS
TC
D/G
STP
GND1
GND2
PKB
S11
Skid Control ECU with Actuator
W-B
R-B
E 1
P 3
Parking Brake SW
EB


From Power Source System (See Page 52)
A
5A
WARNING
6
11 IM
R-Y
A 6
ABS Speed Sensor
Front LH
2
1
A 7
ABS Speed Sensor
Front RH
C12(A), C13(B)
Combination Meter
22 A
ABS
17 B
8 B
19 A
P
L
V
GR
W-B
2 IG3
9 IG3
5 IE3
16 IE3
4 IE3
14 IE3
20 IM
12 I1
Y
BR
9
8
31
30
13
32
FL+
FL-
FR+
FR-
WA
BRL
RL+
RL-
RR+
RR-
11
12
33
34
S11
Skid Control ECU with Actuator
R
G
W
B
2 II2
7 II2
1 II2
6 II2
1
2
A15
ABS Speed Sensor Rear LH
A16
ABS Speed Sensor Rear RH
IF

System Outline

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

1. Input Signals

(1) Speed sensor signal
The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control ECU with actuator.

(2) Stop light SW signal
A signal is input to TERMINAL STP of the skid control ECU with actuator when the brake pedal depressed.

2. System Operation

During sudden braking the skid control ECU with actuator which has signals input from each of the sensor, controls current to the solenoid inside the actuator and causes the hydraulic pressure acting on each of the wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, preventing locking of the vehicle wheels.
If the ECU judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current acting on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the ECU, by the same method as above. By repeated pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

Service Hints

S11 Skid Control ECU with Actuator

1, 23-Ground : Always approx. 12 volts
2, 24-Ground : Always continuity
25-Ground : Approx. 12 volts with the ignition SW at ON position
10-Ground : Approx. 12 volts with the brake pedal depressed

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A6	32 (1ZZ-FE)	A16	38	S8	37
	34 (2ZZ-GE)	C12 A	36	S11	32 (1ZZ-FE)
A7	32 (1ZZ-FE)	C13 B	36		34 (2ZZ-GE)
	34 (2ZZ-GE)	D1	36		
A15	38	P3	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IG		
II		
IK		
IM		
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

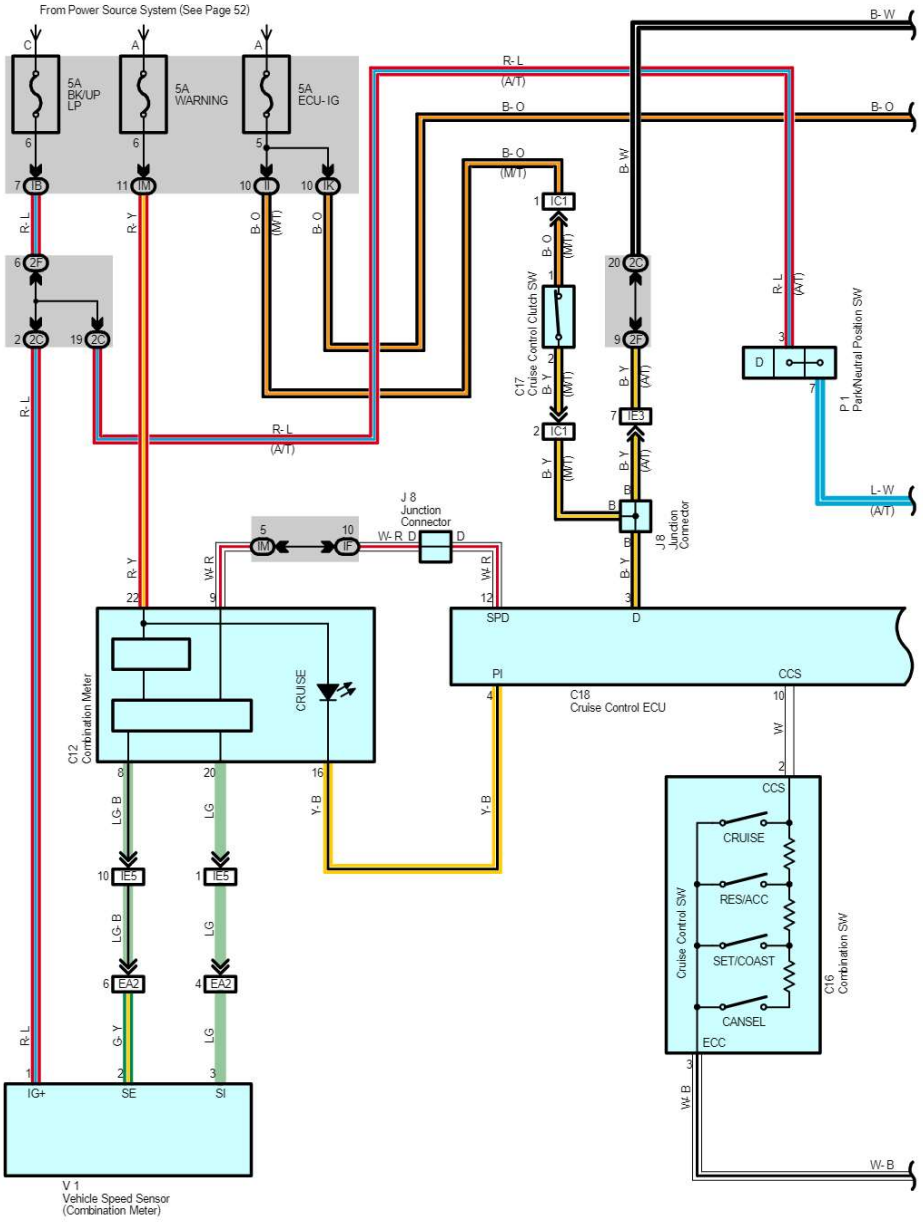
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG3	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

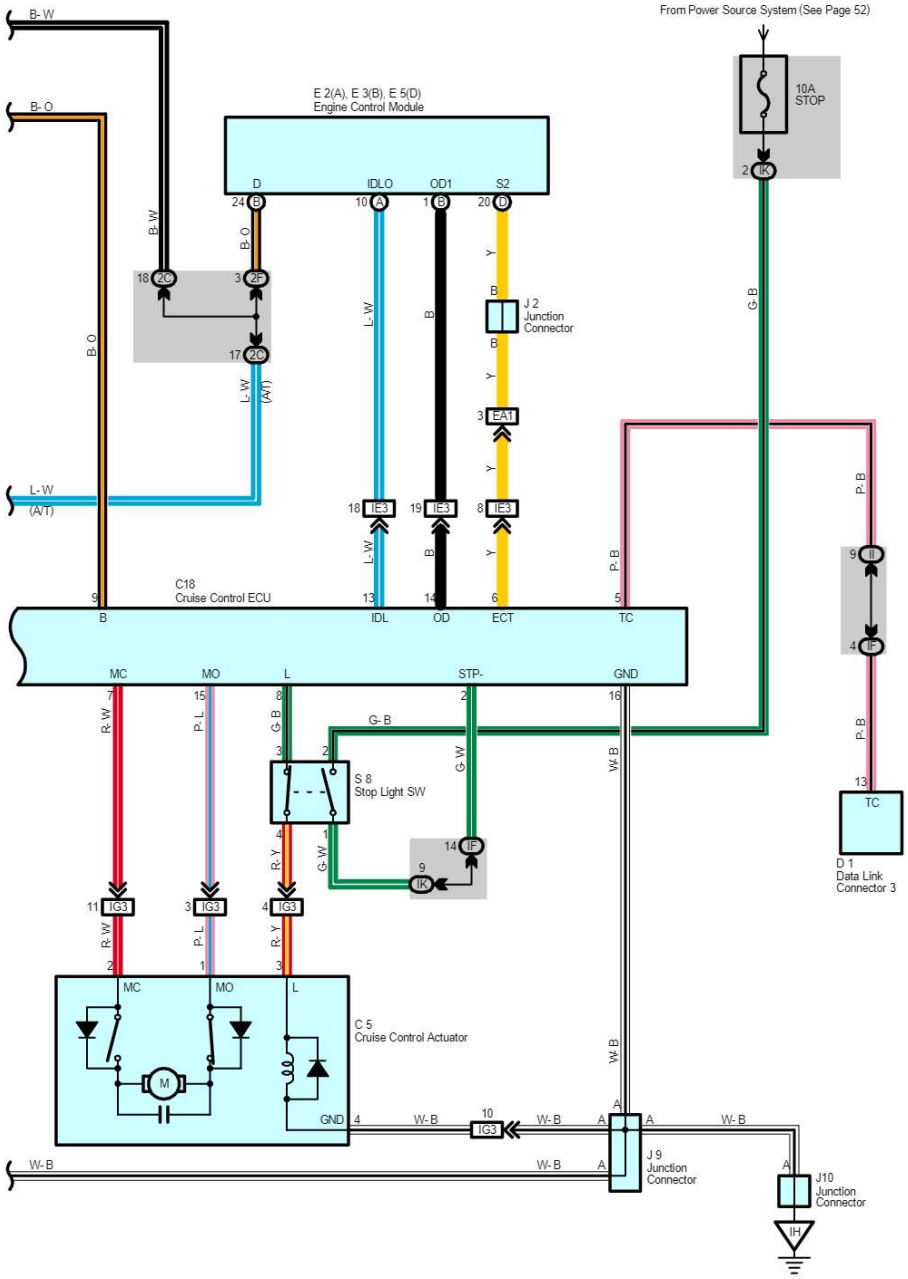
: **GROUND POINTS**

Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IF	44	Instrument Panel Brace RH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	E1	42 (2ZZ-GE)	Engine Room Main Wire


From Power Source System (See Page 52)
5A BK/UP LP
5A WARNING
5A ECU-IG
R-L (A/T)
B-O
B-O (M/T)
B-W
R-L
R-Y
B-O
B-O (M/T)
IB
IM
IJ
IK
2F
2C
19 2C
20 2C
9 2F
B-Y (A/T)
IC1
B-O (M/T)
C17 Cruise Control Clutch SW
B-Y (M/T)
IE3
D
P.1 Park/Neutral Position SW
L-W (A/T)
J 8 Junction Connector
W-R
IM
IF
R-Y
W-R
22
9
12
SPD
D
J8 Junction Connector
C12 Combination Meter
CRUISE
PI
CCS
C18 Cruise Control ECU
4
10
W
2
8
20
16
LG-B
LG
Y-B
IE5
EA2
G-Y
CCS
CRUISE
RES/ACC
SET/COAST
CANSEL
ECC
Cruise Control SW
C16 Combination SW
3
W-B
IG+
SE
SI
1
2
3
V 1 Vehicle Speed Sensor (Combination Meter)


From Power Source System (See Page 52)
10A
STOP
E 2(A), E 3(B), E 5(D)
Engine Control Module
D
IDLO
OD1
S2
J 2
Junction
Connector
EAT
C18
Cruise Control ECU
B
IDL
OD
ECT
TC
MC
MO
L
STP-
GND
S 8
Stop Light SW
C 5
Cruise Control Actuator
J 9
Junction
Connector
J10
Junction
Connector
D 1
Data Link
Connector 3
B-W
B-O
L-W
(A/T)
L-W (A/T)
R-W
P-L
G-B
G-W
R-Y
W-B
P-B

System Outline

The cruise control system allows to travel at a constant speed, by the operation of the switch, without having to depress the accelerator pedal. In this system, the engine throttle valve opening angle is adjusted automatically to control the vehicle at a constant speed.

1. Set Operation

When the cruise control main SW is turned ON, the cruise control system enters into standby mode, and the indicator light in the combination meter is turned ON.

2. Set Speed Control

When the SET/COAST switch is operated while traveling with the main SW ON, the speed when the switch is operated to OFF (Switch released) is memorized, and the vehicle speed is controlled at that speed.

3. Coast Control

When the SET/COAST switch is operated to ON, the motor in the actuator rotates the throttle valve until it is closed fully to decrease the vehicle speed, and the speed when the switch is operated to OFF is memorized, and the vehicle speed is controlled at that speed.
Furthermore, every time the SET/COAST switch is operated momentarily (Approximately 0.5 sec.) to ON, the memorized vehicle speed is decreased by approximately 1.5km/h.

4. Accel Control

When the RES/ACC switch is operated to ON, the motor in the actuator rotates the throttle valve to open direction to increase the vehicle speed, and the speed when the switch is operated to OFF is memorized, and the vehicle speed is controlled at that speed.
Furthermore, every time the RES/ACC switch is operated momentarily (Approximately 0.5 sec.) to ON, the memorized vehicle speed is increased by approximately 1.5km/h.

5. Manual Cancel Mechanism

If any of the following signals are input during cruise control traveling, the cruise control is canceled.

(1) Stop light SW is ON (Brake pedal is depressed)

(2) Park/Neutral Position SW D circuit is turned from ON to OFF (A/T)

(3) Cruise control clutch SW is ON (Clutch pedal is depressed) (M/T)

(4) The CANCEL SW of the control SW is ON

(5) The CRUISE SW is turned OFF

6. Resume Control

After canceling the cruise control (Except when the main SW is OFF) if the vehicle speed is above the minimum speed limit (Approximately 40km/h, 25mph), operating the RES/ACC switch from OFF to ON will cause the system to accelerate and resume to the vehicle speed before manual cancellation.

7. Electronically Controlled Transmission Control

During cruise control traveling, communication control is made to fix the electronically controlled transmission in normal pattern. However, in this case the indicator of the electronically controlled transmission does not change.

8. Overdrive Function

While traveling with the cruise control, if the overdrive cut speed is reached on an upgrade hill, the overdrive is released (O/D OFF) immediately.
This function increases the vehicle's traction so that the vehicle speed does not drop.

9. Auto Cancel Operation

If any of the following conditions are detected, the set speed is erased and the control is canceled.

(1) Disconnection or short in the Stop Light SW

(2) Abnormality in vehicle speed signal

(3) Abnormality in the actuator

(4) The actual vehicle speed becomes slower than the minimum speed limit

Service Hints

C16 Combination SW

2-3 : Continuity with the CRUISE SW on
2-3 : Approx. 1540 Ω with the CANCEL SW on
Approx. 630 Ω with the SET/COAST SW on
Approx. 240 Ω with the RES/ACC SW on

C18 Cruise Control ECU

9-Ground : Approx. 12 volts with the ignition SW at ON position
12-Ground : 4 pulses with 1 rotation of the rotor shaft
10-Ground : Approx. 1540 Ω with the CANCEL SW on in the control SW
Approx. 630 Ω with the SET/COAST SW on in the control SW
Approx. 240 Ω with the RES/ACC SW on in the control SW
16-Ground : Always continuity

○ : PARTS LOCATION

Code	See Page	Code		See Page	Code	See Page
C5	32 (1ZZ-FE)	E2	A	32 (1ZZ-FE)	J10	37
C12	36	E3	B	32 (1ZZ-FE)	P1	33 (1ZZ-FE)
C16	36	E5	D	32 (1ZZ-FE)	S8	37
C17	36	J2		33 (1ZZ-FE)	V1	33 (1ZZ-FE)
C18	36	J8		37		
D1	36	J9		37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

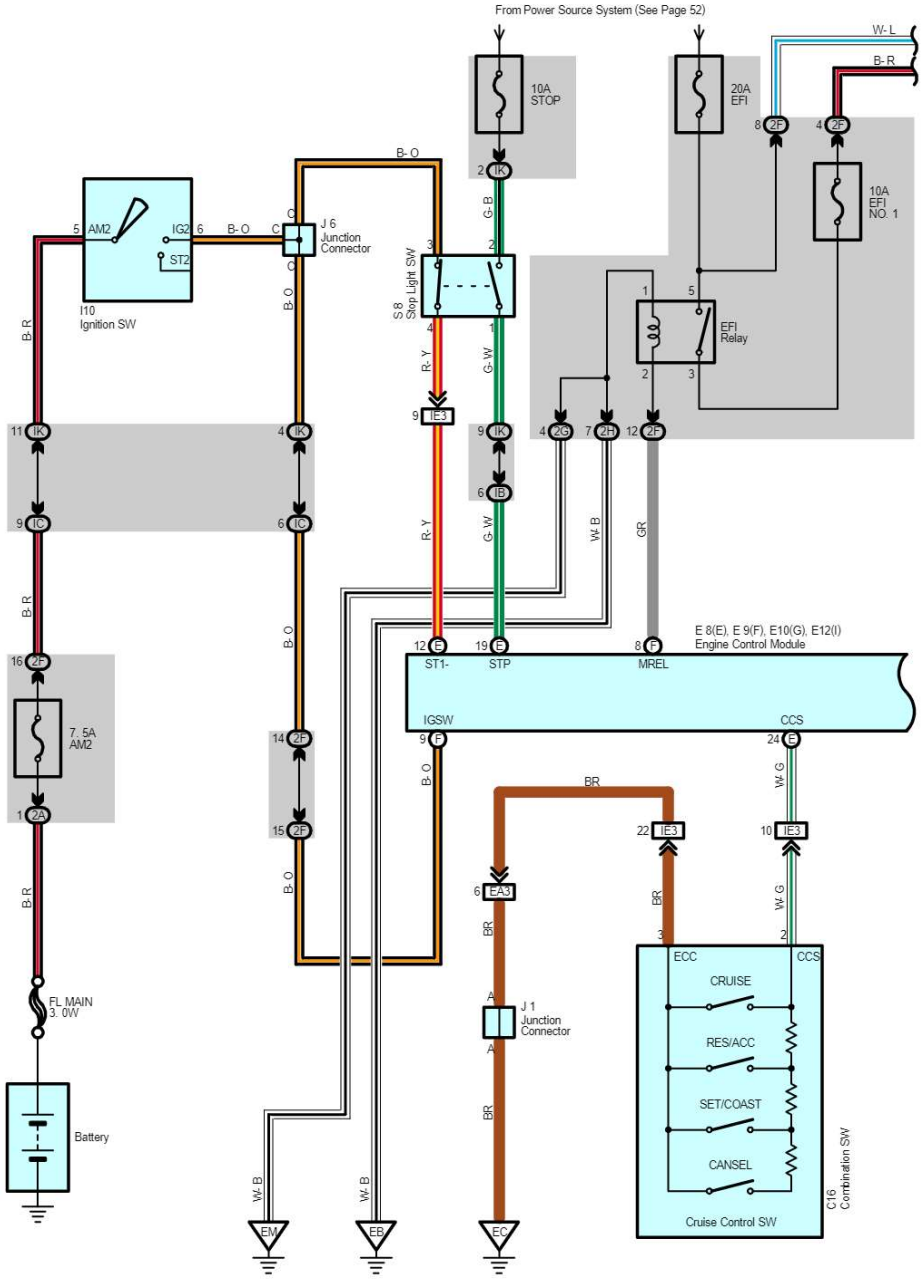
Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IK		
IM		
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

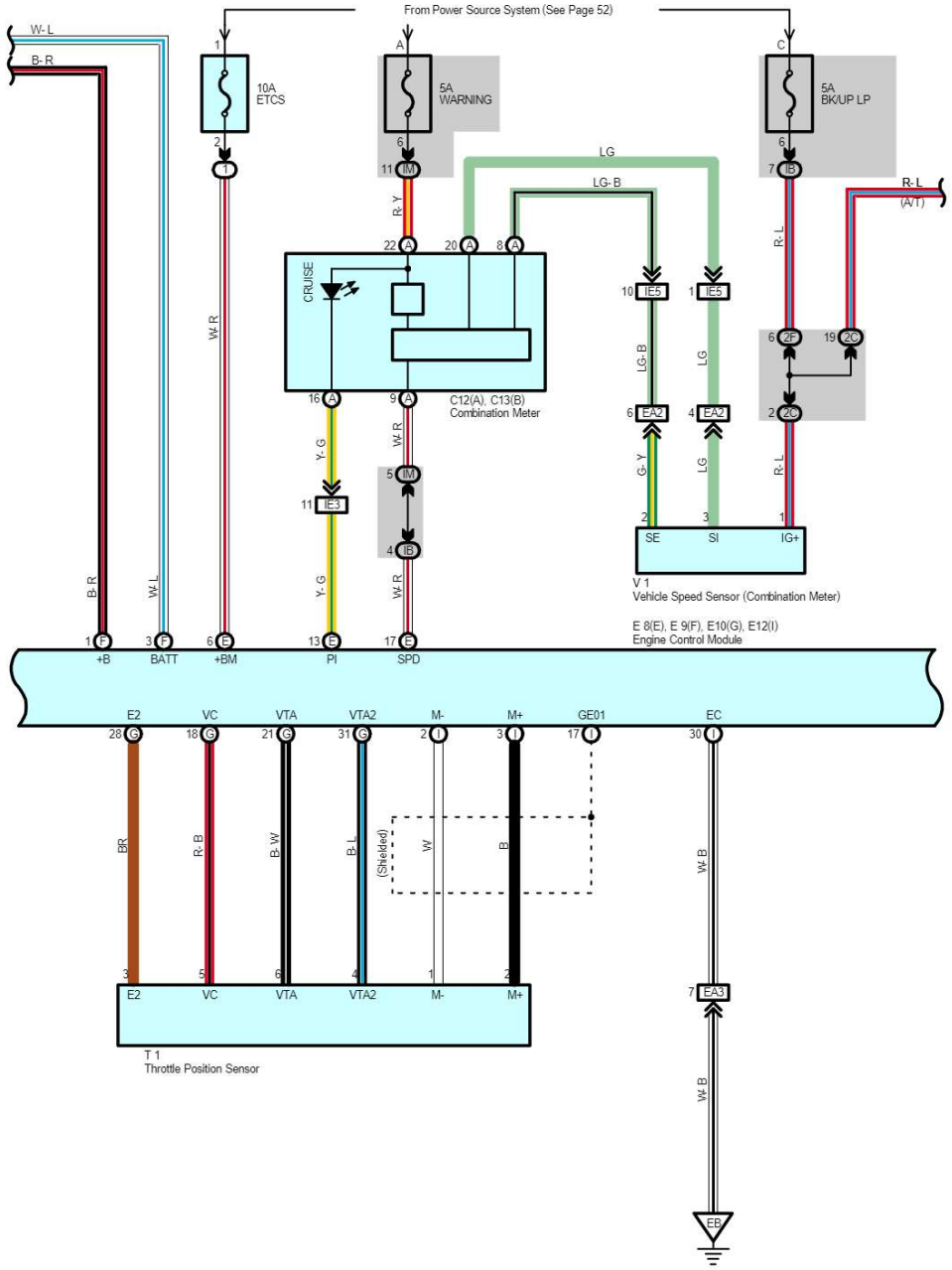
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

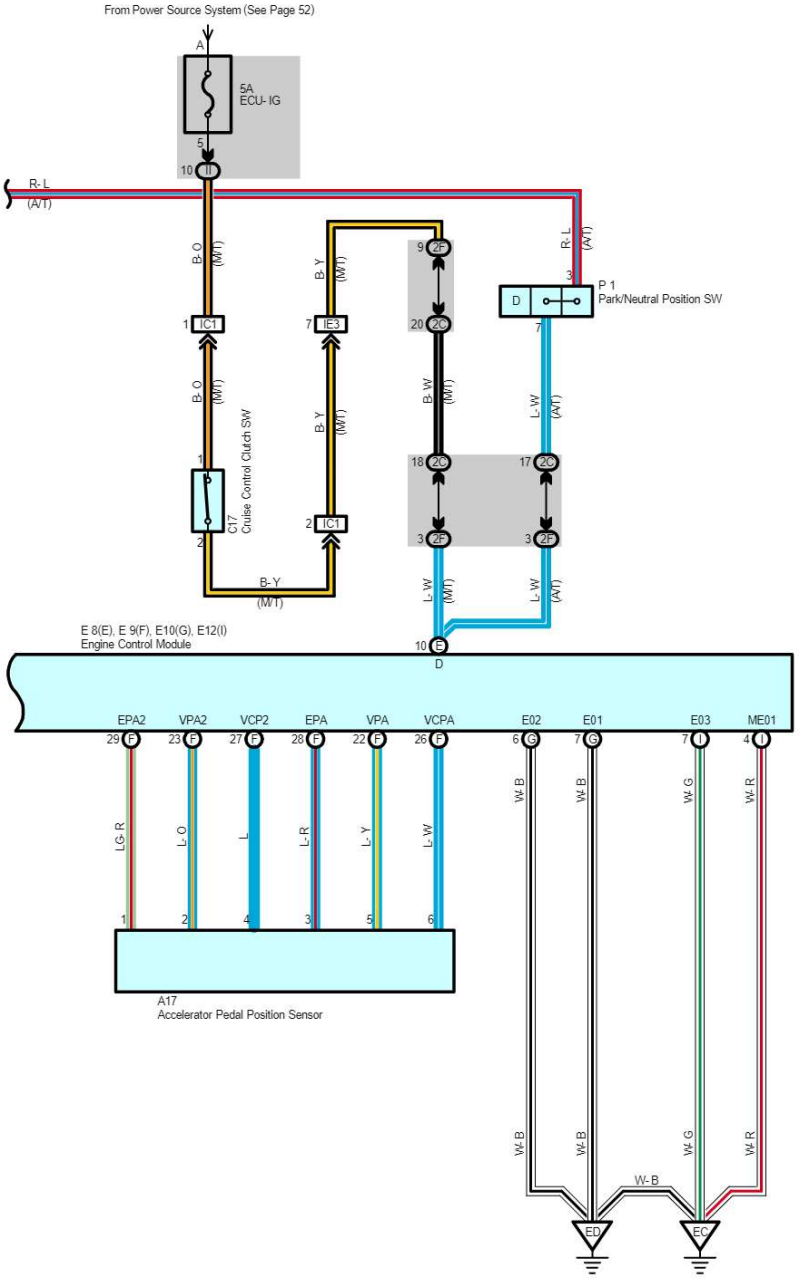
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA2		
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
IG3	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IH	44	Cowl Side Panel RH


From Power Source System (See Page 52)
10A STOP
20A EFI
W-L
B-R
10A EFI NO. 1
B-O
G-B
J 6 Junction Connector
I10 Ignition SW
AM2
IG2
ST2
S 8 Stop Light SW
EFI Relay
R-Y
G-W
W-B
GR
7. 5A AM2
FL MAIN 3. 0W
Battery
E 8(E), E 9(F), E10(G), E12(I) Engine Control Module
ST1-
STP
MREL
IGSW
CCS
BR
W-G
J 1 Junction Connector
ECC
CRUISE
RES/ACC
SET/COAST
CANSEL
Cruise Control SW
C16 Combination SW
EM
EB
EC


From Power Source System (See Page 52)
W-L
B-R
10A
ETCS
5A
WARNING
5A
BK/UP LP
LG
LG-B
R-Y
R-L
R-L
(A/T)
CRUISE
W-R
C12(A), C13(B)
Combination Meter
LG-B
LG
G-Y
LG
R-L
Y-G
W-R
Y-G
W-R
B-R
W-L
+B
BATT
+BM
PI
SPD
SE
SI
IG+
V 1
Vehicle Speed Sensor (Combination Meter)
E 8(E), E 9(F), E10(G), E12(I)
Engine Control Module
E2
VC
VTA
VTA2
M-
M+
GE01
EC
BR
R-B
B-W
B-L
(Shielded)
W
B
W-B
W-B
E2
VC
VTA
VTA2
M-
M+
T 1
Throttle Position Sensor
EB


From Power Source System (See Page 52)
A
5A
ECU- IG
5
10
R- L
(A/T)
B- O
(M/T)
B- Y
(M/T)
R- L
(A/T)
9 2F
20 2C
3
P 1
Park/Neutral Position SW
D
7
1 IC1
7 IE3
B- O
(M/T)
B- Y
(M/T)
B- W
(M/T)
L- W
(A/T)
1
C17
Cruise Control Clutch SW
2
2 IC1
18 2C
17 2C
3 2F
3 2F
B- Y
(M/T)
L- W
(M/T)
L- W
(A/T)
E 8(E), E 9(F), E10(G), E12(I)
Engine Control Module
10 E
D
EPA2
VPA2
VCP2
EPA
VPA
VCPA
E02
E01
E03
ME01
29 F
23 F
27 F
28 F
22 F
26 F
6 G
7 G
7 I
4 I
LG- R
L- O
L
L- R
L- Y
L- W
W- B
W- B
W- G
W- R
1
2
4
3
5
6
A17
Accelerator Pedal Position Sensor
W- B
W- B
W- G
W- R
W- B
E01
E02

System Outline

The cruise control system allows to travel at a constant speed, by the operation of the switch, without having to depress the accelerator pedal. In this system, the engine throttle valve opening angle is adjusted automatically to control the vehicle at a constant speed.

1. Set Operation

When the cruise control main SW is turned ON, the cruise control system enters into standby mode, and the indicator light in the combination meter is turned ON.

2. Set Speed Control

When the SET/COAST switch is operated while traveling with the main SW ON, the speed when the switch is operated to OFF (Switch released) is memorized, and the vehicle speed is controlled at that speed.

3. Coast Control

When the SET/COAST switch is operated to ON, the motor in the actuator rotates the throttle valve until it is closed fully to decrease the vehicle speed, and the speed when the switch is operated to OFF is memorized, and the vehicle speed is controlled at that speed.
Furthermore, every time the SET/COAST switch is operated momentarily (Approximately 0.5 sec.) to ON, the memorized vehicle speed is decreased by approximately 1.5km/h.

4. Accel Control

When the RES/ACC switch is operated to ON, the motor in the actuator rotates the throttle valve to open direction to increase the vehicle speed, and the speed when the switch is operated to OFF is memorized, and the vehicle speed is controlled at that speed.
Furthermore, every time the RES/ACC switch is operated momentarily (Approximately 0.5 sec.) to ON, the memorized vehicle speed is increased by approximately 1.5km/h.

5. Manual Cancel Mechanism

If any of the following signals are input during cruise control traveling, the cruise control is canceled.

(1) Stop light SW is ON (Brake pedal is depressed)

(2) Park/Neutral Position SW D circuit is turned from ON to OFF (A/T)

(3) Cruise control clutch SW is ON (Clutch pedal is depressed) (M/T)

(4) The CANCEL SW of the control SW is ON

(5) The CRUISE SW is turned OFF

6. Resume Control

After canceling the cruise control (Except when the main SW is OFF) if the vehicle speed is above the minimum speed limit (Approximately 40km/h, 25mph), operating the RES/ACC switch from OFF to ON will cause the system to accelerate and resume to the vehicle speed before manual cancellation.

7. Electronically Controlled Transmission Control

During cruise control traveling, communication control is made to fix the electronically controlled transmission in normal pattern. However, in this case the indicator of the electronically controlled transmission does not change.

8. Overdrive Function

While traveling with the cruise control, if the overdrive cut speed is reached on an upgrade hill, the overdrive is released (O/D OFF) immediately.
This function increases the vehicle's traction so that the vehicle speed does not drop.

9. Auto Cancel Operation

If any of the following conditions are detected, the set speed is erased and the control is canceled.

(1) Disconnection or short in the Stop Light SW

(2) Abnormality in vehicle speed signal

(3) Abnormality in the actuator

(4) The actual vehicle speed becomes slower than the minimum speed limit

Service Hints

C16 Combination SW

2-3 : Continuity with the CRUISE SW on
2-3 : Approx. 1540 Ω with the CANCEL SW on
Approx. 630 Ω with the SET/COAST SW on
Approx. 240 Ω with the RES/ACC SW on

E8 (E), E9 (F), E10 (G), E12 (I) Engine Control Module

(F) 9-Ground : Approx. 12 volts with the ignition SW at ON position
(E) 6, (F) 3-Ground : Always approx. 12 volts
(G) 6, (G) 7, (I) 4, (I) 7, (I) 30-Ground : Always continuity
(E) 19-Ground : Approx. 12 volts with the stop light SW at on
(E) 24-Ground : Continuity with the MAIN SW on
Approx. 1540 Ω with the CANCEL SW on
Approx. 630 Ω with the SET/COAST SW on
Approx. 240 Ω with the RES/ACC SW on

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A17	36	E9 F	34 (2ZZ-GE)	P1	35 (2ZZ-GE)
C12 A	36	E10 G	34 (2ZZ-GE)	S8	37
C13 B	36	E12 I	34 (2ZZ-GE)	T1	35 (2ZZ-GE)
C16	36	I10	37	V1	35 (2ZZ-GE)
C17	36	J1	35 (2ZZ-GE)		
E8 E	34 (2ZZ-GE)	J6	37		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		
IM		
2A	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2C		
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

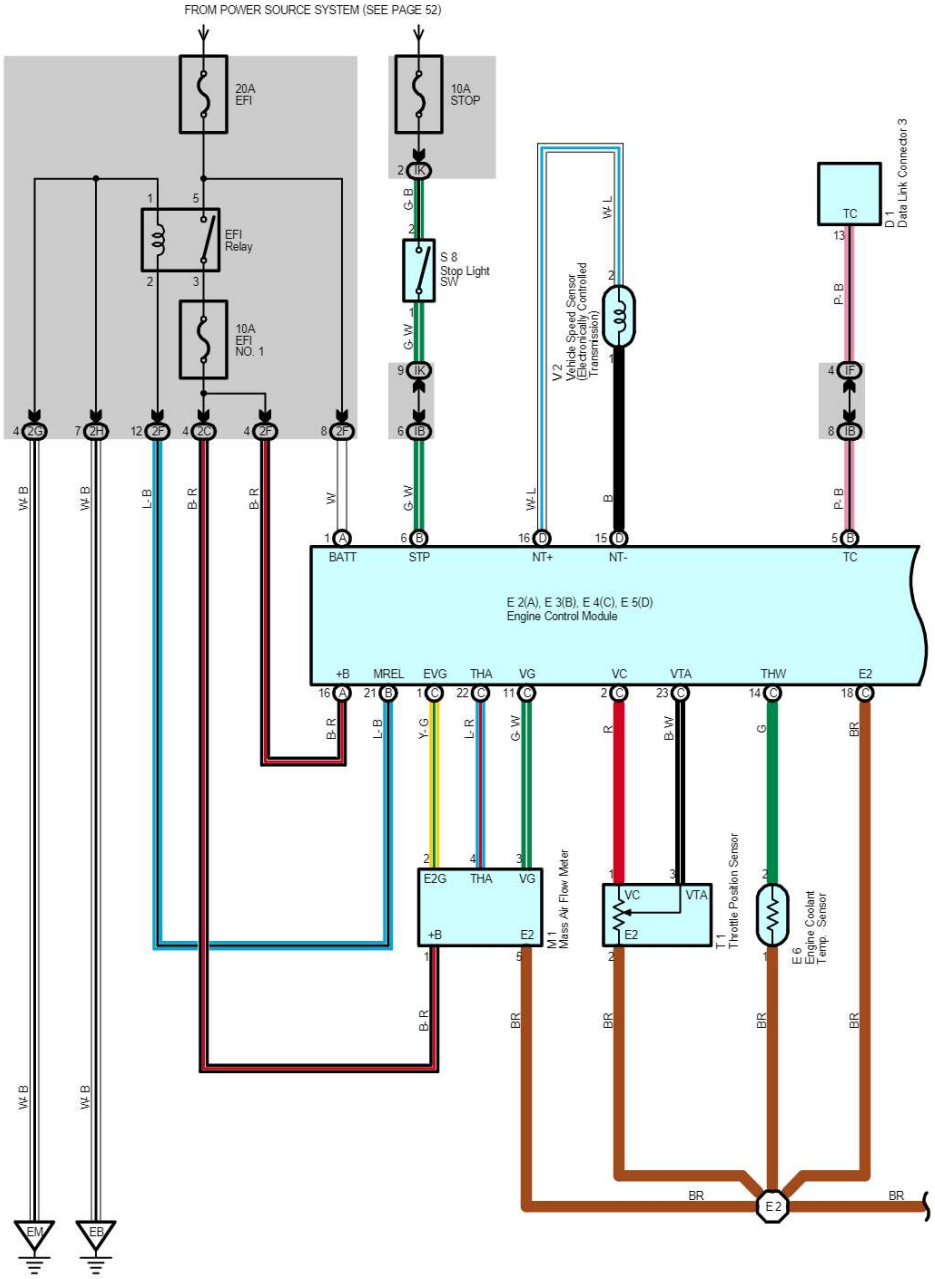
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

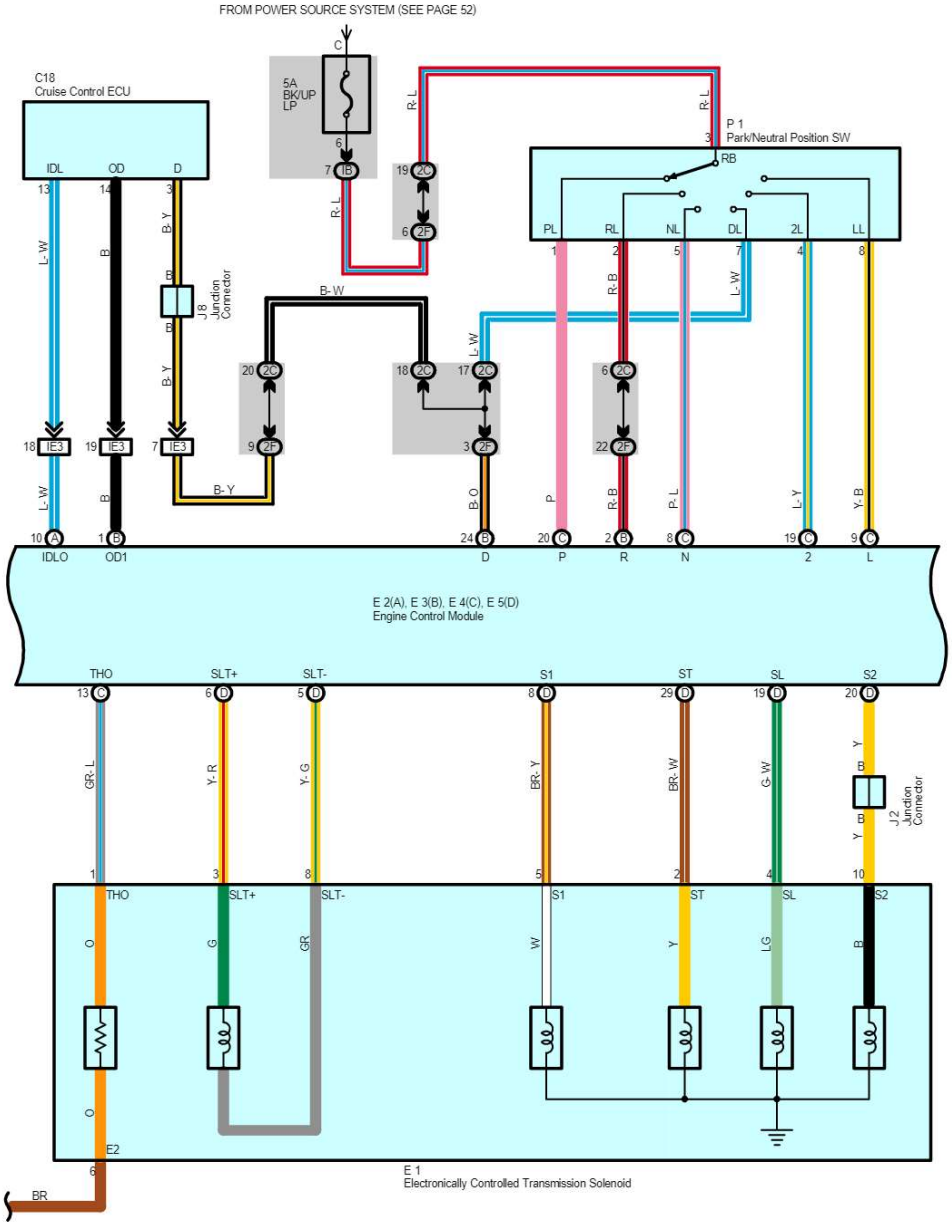
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	42 (2ZZ-GE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
EA3		
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		

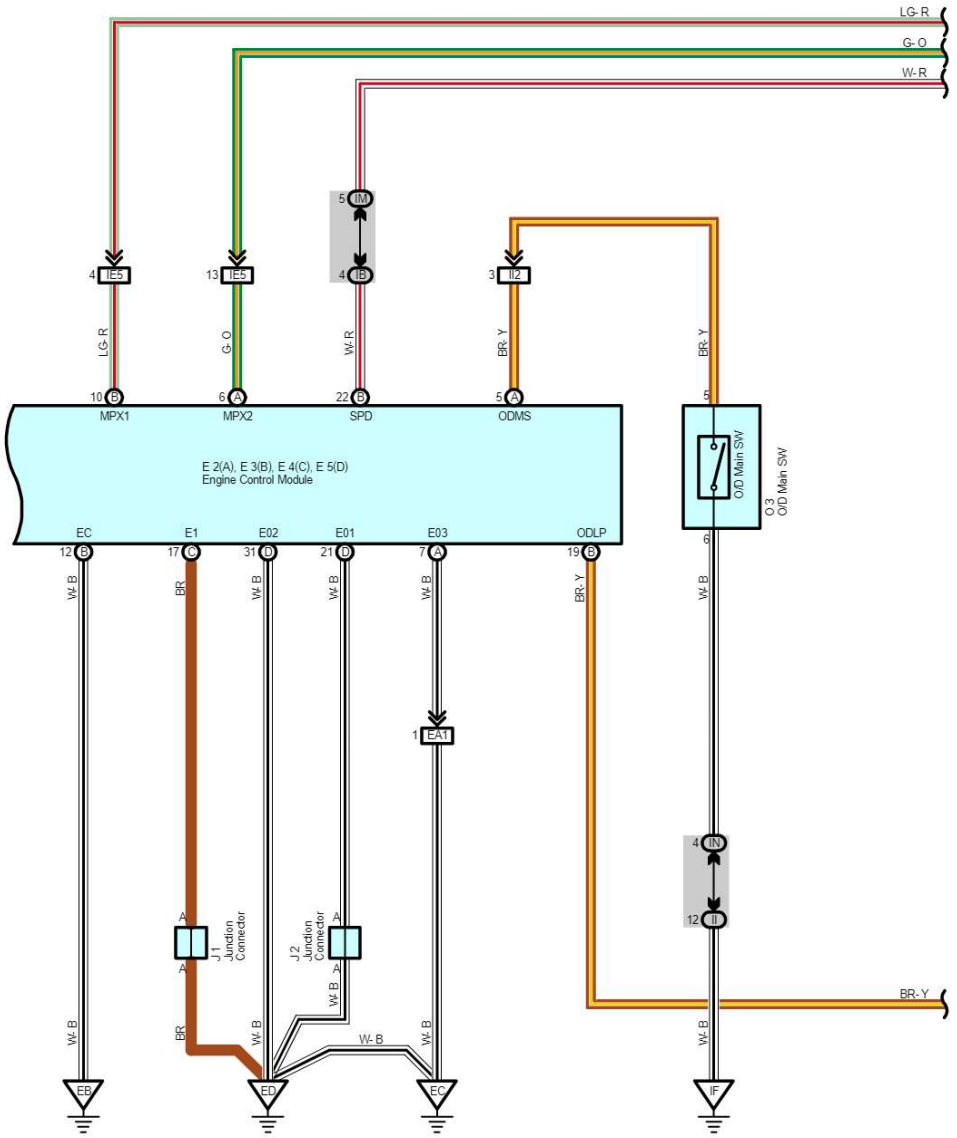
▽ : GROUND POINTS

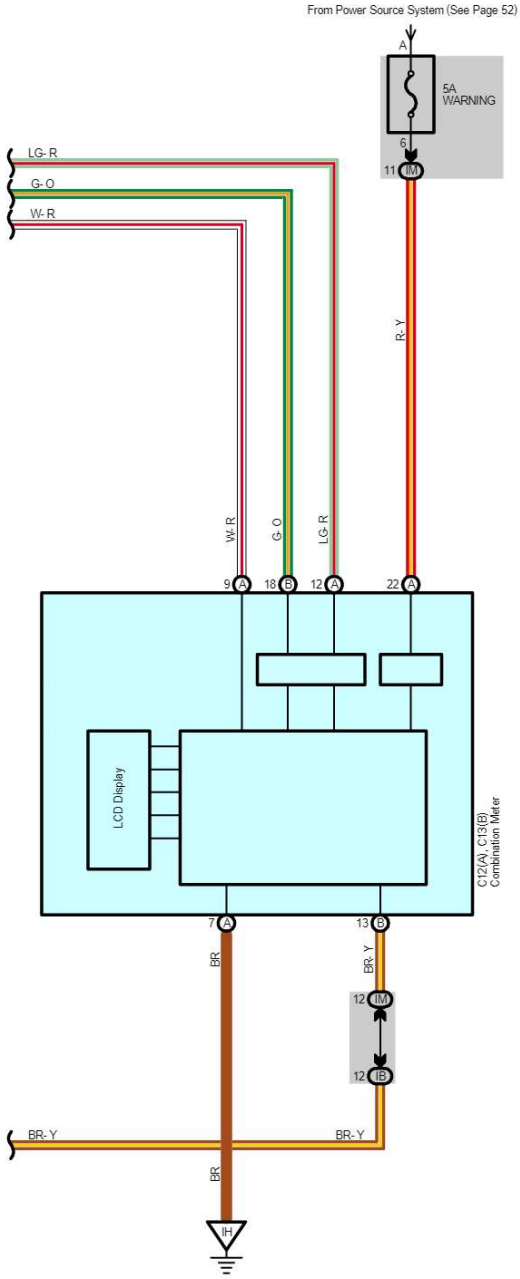
Code	See Page	Ground Points Location
EB	42 (2ZZ-GE)	Front Left Fender
EC	42 (2ZZ-GE)	Cylinder Head Cover LH
ED		
EM	42 (2ZZ-GE)	Front Left Fender
IH	44	Cowl Side Panel RH

ECT and A/T Indicator for 1ZZ-FE




FROM POWER SOURCE SYSTEM (SEE PAGE 52)
C18
Cruise Control ECU
IDL
OD
D
5A
BK/UP
LP
P 1
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
J8
Junction
Connector
IDLO
OD1
D
P
R
N
2
L
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
THO
SLT+
SLT-
S1
ST
SL
S2
J2
Junction
Connector
E2
E 1
Electronically Controlled Transmission Solenoid
BR


LG-R
G-O
W-R
5 IM
4 IE5
13 IE5
4 IB
3 II2
LG-R
G-O
W-R
BR-Y
BR-Y
10 B
6 A
22 B
5 A
5
MPX1
MPX2
SPD
ODMS
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
O/D Main SW
O 3
O/D Main SW
EC
E1
E02
E01
E03
ODLP
12 B
17 C
31 D
21 D
7 A
19 B
6
W-B
BR
W-B
W-B
W-B
BR-Y
W-B
1 EAT
4 IN
12 II
J1
Junction
Connector
J2
Junction
Connector
A
A
A
A
W-B
BR
W-B
W-B
W-B
W-B
BR-Y
W-B
EB
ED
EC
IF


From Power Source System (See Page 52)
A
5A
WARNING
6
11 IM
LG-R
G-O
W-R
R-Y
W-R
G-O
LG-R
9 A
18 B
12 A
22 A
LCD Display
C12(A), C13(B)
Combination Meter
7 A
13 B
BR
BR-Y
12 IM
12 IB
BR-Y
BR-Y
BR
IH

ECT and A/T Indicator for 1ZZ-FE

System Outline

Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL NT+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINAL VTA of the engine control module as throttle angle signal.
Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

Service Hints

V2 Vehicle Speed Sensor (Electronically Controlled Transmission)

1-2 : 560-680 Ω

E2 (A), E3 (B), E4 (C) Engine Control Module

BATT-E1 : Always approx. 12 volts
+B-E1 : Approx. 12 volts with ignition SW ON or ST position
MREL-E1 : Approx. 12 volts with ignition SW ON or ST position

P1 Park/Neutral Position SW

3-1 : Closed with shift lever in P position
3-2 : Closed with shift lever in R position
3-5 : Closed with shift lever in N position
3-7 : Closed with shift lever in D position
3-4 : Closed with shift lever in 2 position
3-8 : Closed with shift lever in L position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C12 A	36	E4 C	32 (1ZZ-FE)	O3	37
C13 B	36	E5 D	32 (1ZZ-FE)	P1	33 (1ZZ-FE)
C18	36	E6	32 (1ZZ-FE)	S8	37
D1	36	J1	33 (1ZZ-FE)	T1	33 (1ZZ-FE)
E1	32 (1ZZ-FE)	J2	33 (1ZZ-FE)	V2	33 (1ZZ-FE)
E2 A	32 (1ZZ-FE)	J8	37		
E3 B	32 (1ZZ-FE)	M1	33 (1ZZ-FE)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IK		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

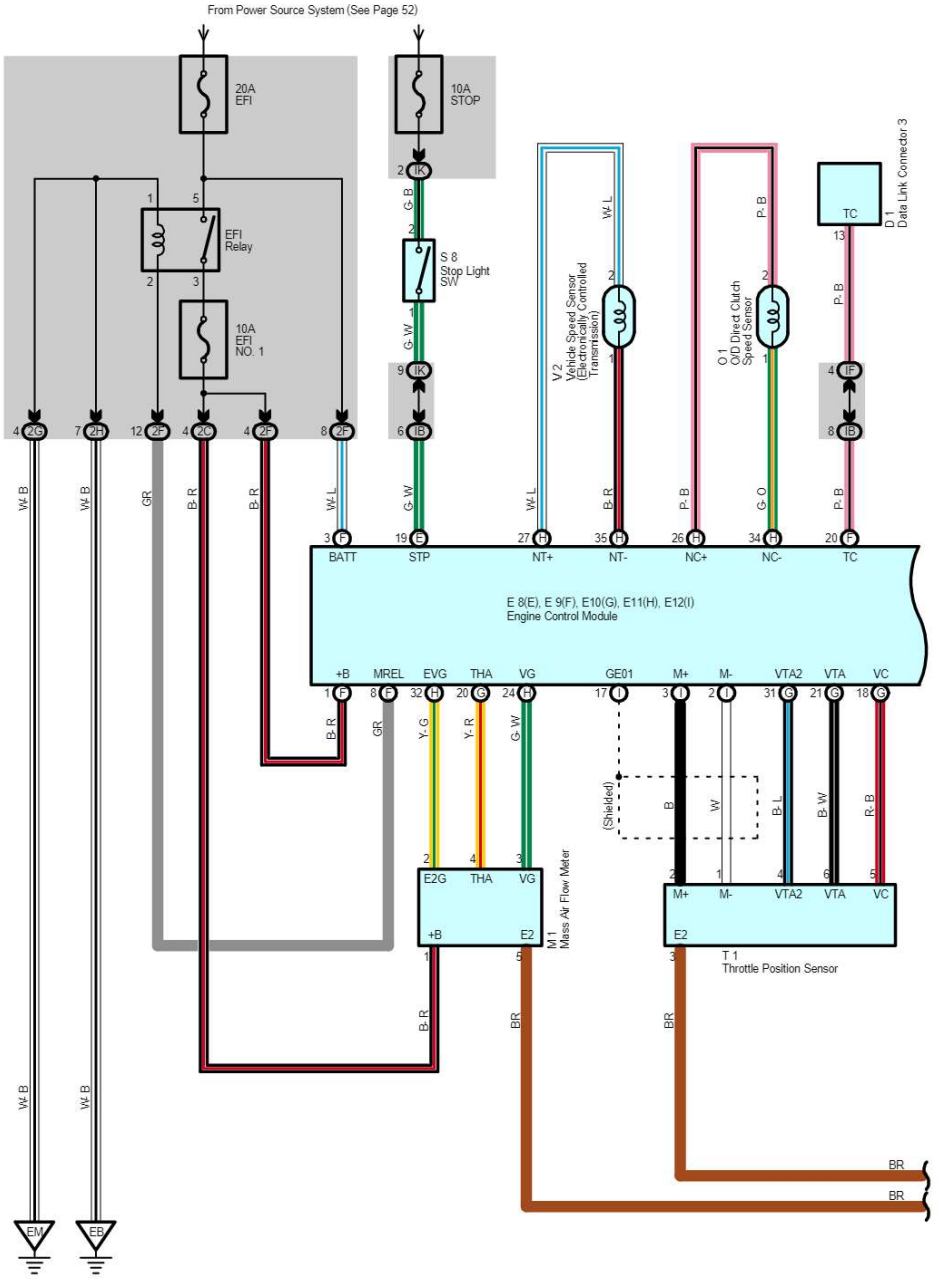
: **GROUND POINTS**

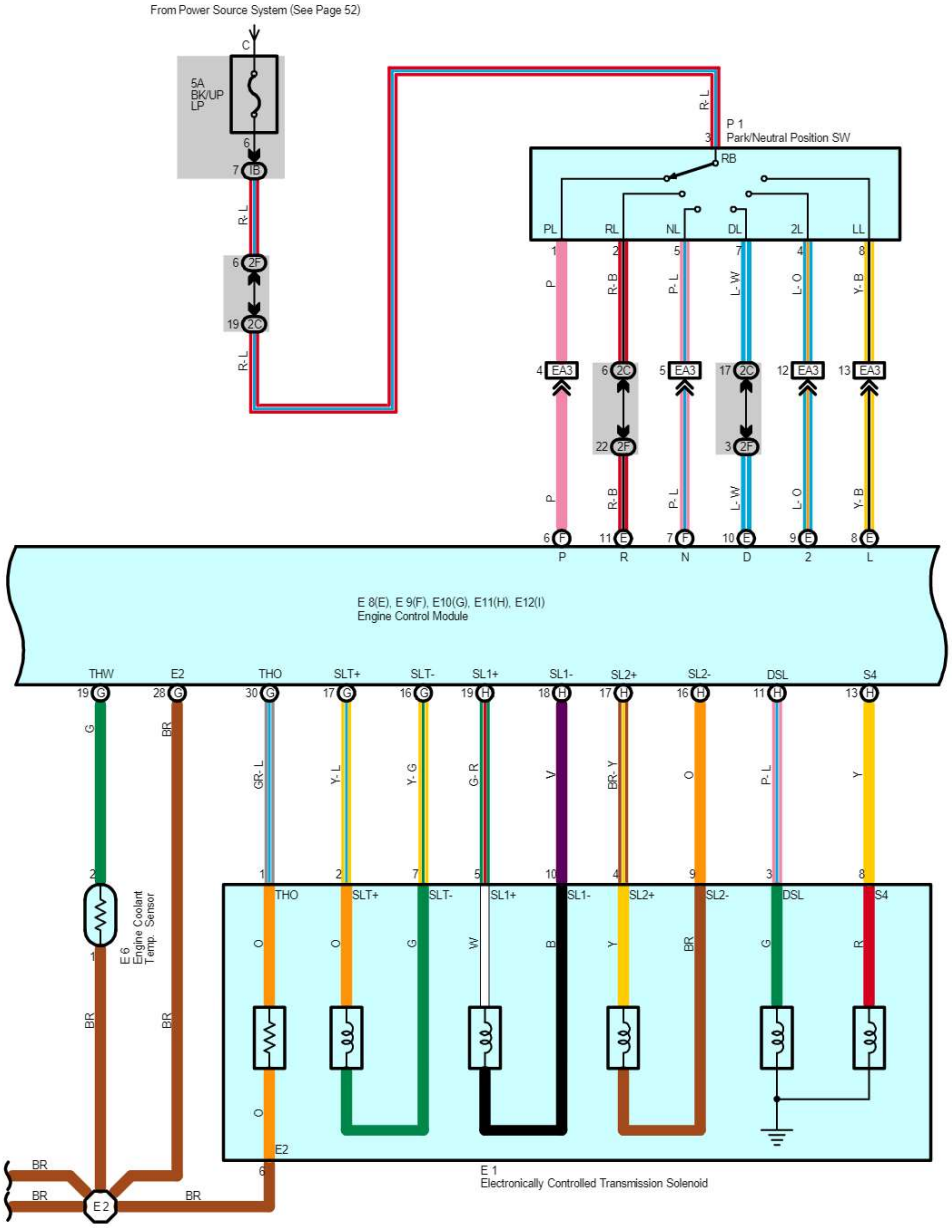
Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
EC	40 (1ZZ-FE)	Cylinder Head Cover LH
ED		
EM	40 (1ZZ-FE)	Front Left Fender
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

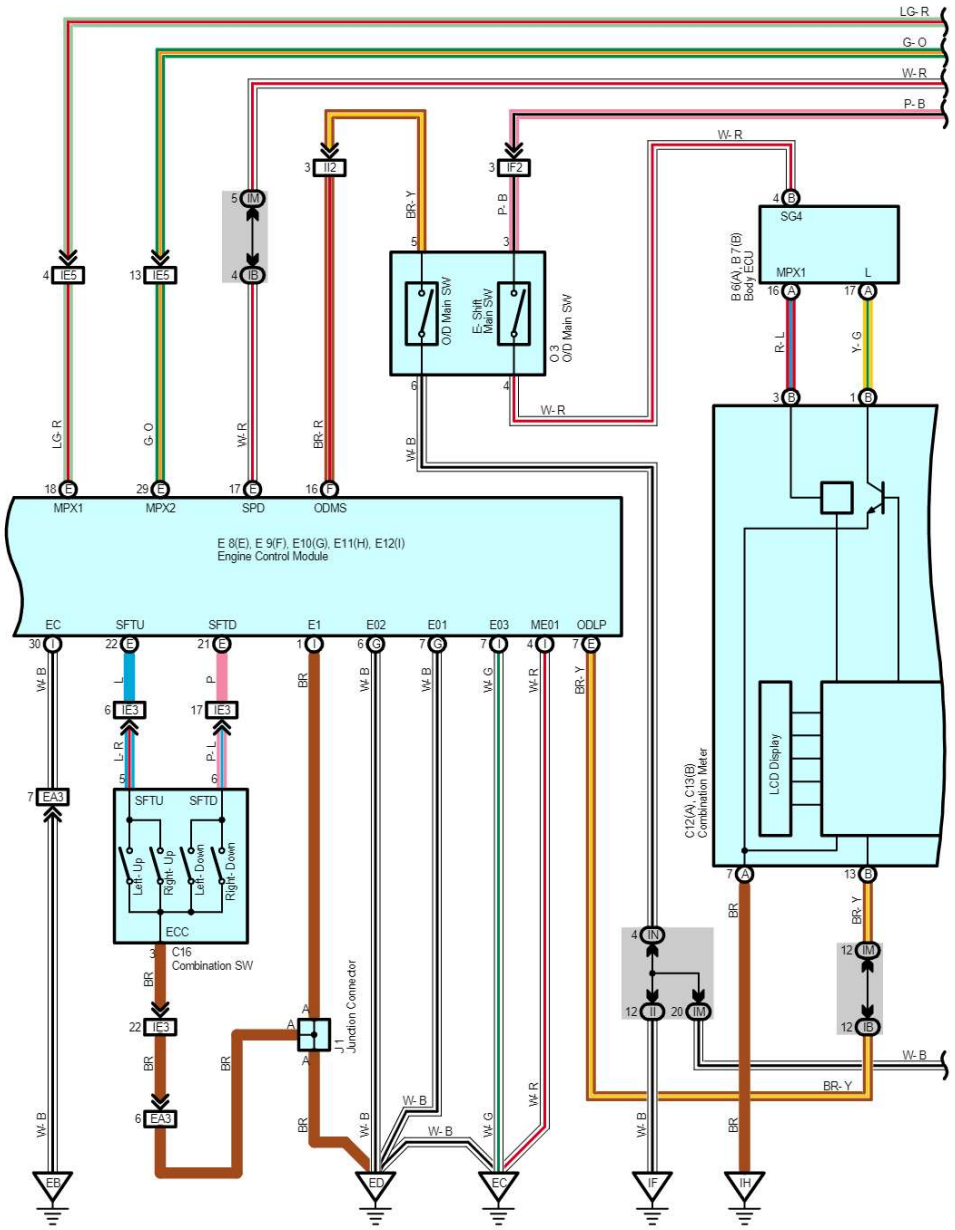
: **SPLICE POINTS**

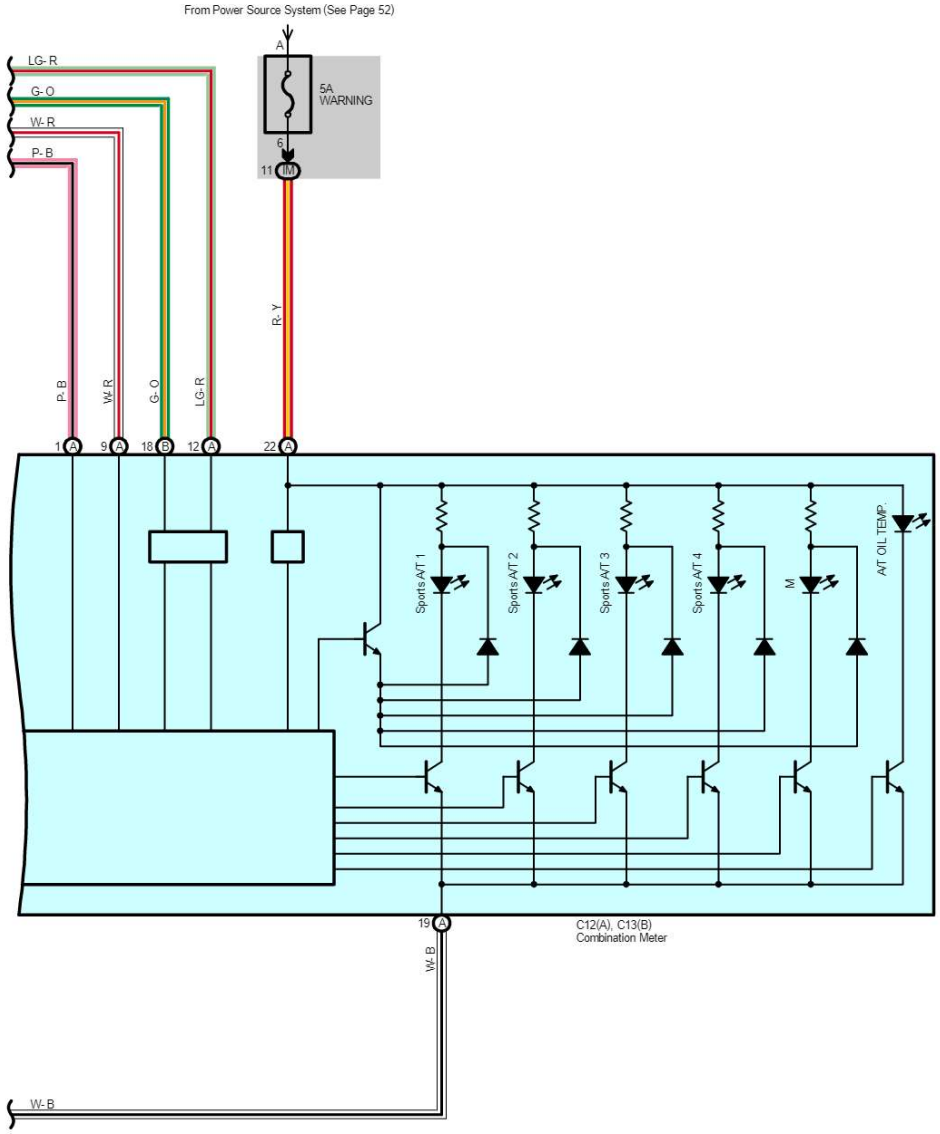
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	40 (1ZZ-FE)	Engine Wire			

ECT and A/T Indicator for 2ZZ-GE




From Power Source System (See Page 52)
5A
BK/UP
LP
P 1
Park/Neutral Position SW
RB
PL
RL
NL
DL
2L
LL
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
THW
E2
THO
SLT+
SLT-
SL1+
SL1-
SL2+
SL2-
DSL
S4
E 6
Engine Coolant
Temp. Sensor
E 1
Electronically Controlled Transmission Solenoid


LG-R
G-O
W-R
P-B
W-R
IE5
IE5
IM
IB
IT2
IF2
BR-Y
P-B
W-R
SG4
MPX1
L
B 6(A), B 7(B)
Body ECU
R-L
Y-G
O/D Main SW
E-Shift Main SW
O/D Main SW
LG-R
G-O
W-R
BR-R
W-B
MPX1
MPX2
SPD
ODMS
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
EC
SFTU
SFTD
E1
E02
E01
E03
ME01
ODLP
W-B
L
P
L-R
P-L
IE3
IE3
EA3
SFTU
SFTD
Left-Up
Right-Up
Left-Down
Right-Down
ECC
C16
Combination SW
BR
IE3
EA3
J1
Junction Connector
W-B
W-G
W-R
BR-Y
LCD Display
C12(A), C13(B)
Combination Meter
IN
IM
IM
IB
W-B
BR-Y
BR
EB
ED
EC
IF
IH


From Power Source System (See Page 52)
A
5A
WARNING
6
11
LG- R
G- O
W- R
P- B
R- Y
P- B
W- R
G- O
LG- R
1 A
9 A
18 B
12 A
22 A
Sports A/T 1
Sports A/T 2
Sports A/T 3
Sports A/T 4
M
A/T OIL TEMP.
19 A
C12(A), C13(B)
Combination Meter
W- B
W- B

ECT and A/T Indicator for 2ZZ-GE

System Outline

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL NT+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINAL VTA of the engine control module as throttle angle signal.
Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. E-Shift System

When the shift lever is set to the M position, the shift range can be switched with the UP or DOWN switch on the steering. (This limits to the maximum gear step and enables automatic shift-up and shift-down within the allowable range.)

Service Hints

V2 Vehicle Speed Sensor (Electronically Controlled Transmission)
1-2 : 560-680 Ω

O1 O/D Direct Clutch Speed Sensor
1-2 : 560-680 Ω

E9 (F), E12 (I) Engine Control Module
BATT-E1 : Always approx. 12 volts
+B-E1 : Approx. 12 volts with ignition SW ON or ST position
MREL-E1 : Approx. 12 volts with ignition SW ON or ST position

P1 Park/Neutral Position SW
3-1 : Closed with shift lever in P position
3-2 : Closed with shift lever in R position
3-5 : Closed with shift lever in N position
3-7 : Closed with shift lever in D position
3-4 : Closed with shift lever in 2 position
3-8 : Closed with shift lever in L position

O : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
B6	A	36	E6		34 (2ZZ-GE)	M1	35 (2ZZ-GE)
B7	B	36	E8	E	34 (2ZZ-GE)	O1	35 (2ZZ-GE)
C12	A	36	E9	F	34 (2ZZ-GE)	O3	37
C13	B	36	E10	G	34 (2ZZ-GE)	P1	35 (2ZZ-GE)
C16		36	E11	H	34 (2ZZ-GE)	S8	37
D1		36	E12	I	34 (2ZZ-GE)	T1	35 (2ZZ-GE)
E1		34 (2ZZ-GE)	J1		35 (2ZZ-GE)	V2	35 (2ZZ-GE)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IK		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA3	42 (2ZZ-GE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
IF2	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

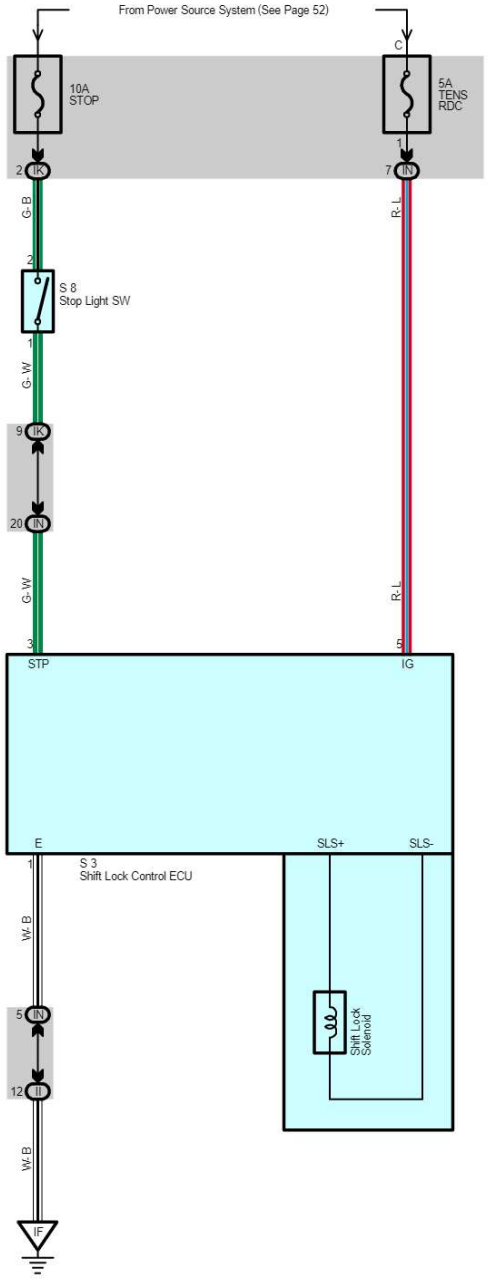
: GROUND POINTS

Code	See Page	Ground Points Location
EB	42 (2ZZ-GE)	Front Left Fender
EC	42 (2ZZ-GE)	Cylinder Head Cover LH
ED		
EM	42 (2ZZ-GE)	Front Left Fender
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	42 (2ZZ-GE)	Engine Wire			

Shift Lock


From Power Source System (See Page 52)
C
10A
STOP
5A
TENS
RDC
1
2
IK
7
IN
G-B
R-L
2
S 8
Stop Light SW
1
G-W
9
IK
20
IN
G-W
R-L
3
STP
IG
E
SLS+
SLS-
1
S 3
Shift Lock Control ECU
W-B
Shift Lock
Solenoid
5
IN
12
II
W-B
IF

Service Hints

S3 Shift Lock Control ECU

5-Ground : Approx. 12 volts with the ignition SW at ON position
1-Ground : Always continuity
3-Ground : Approx. 12 volts with the brake pedal depressed

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
S3	37	S8	37		

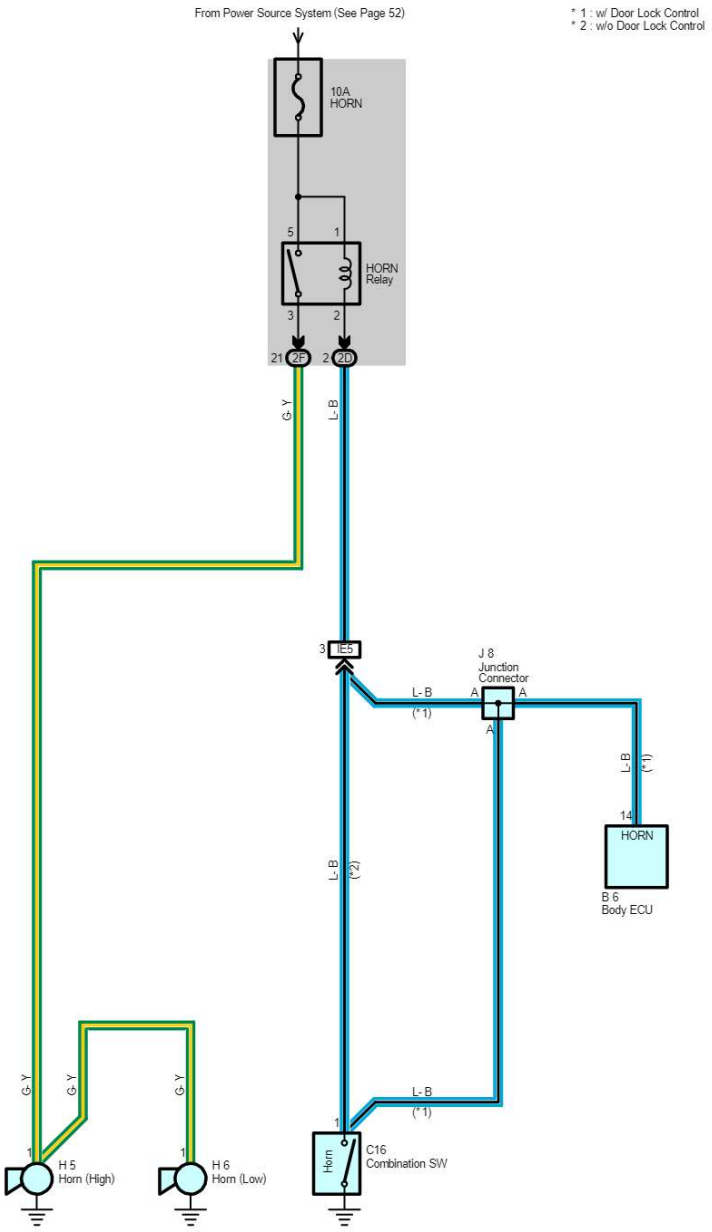
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH

Horn


From Power Source System (See Page 52)
* 1 : w/ Door Lock Control
* 2 : w/o Door Lock Control
10A
HORN
5
1
HORN
Relay
3
2
21
2F
2
2D
G-Y
L-B
3
IE5
J 8
Junction
Connector
L-B
(*1)
A
A
A
L-B
(*1)
14
HORN
B 6
Body ECU
L-B
(*2)
G-Y
G-Y
G-Y
L-B
(*1)
1
1
1
H 5
Horn (High)
H 6
Horn (Low)
Horn
C16
Combination SW

Service Hints

HORN Relay

5-3 : Closed with the horn SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6	36	H5	34 (2ZZ-GE)	J8	37
C16	36	H6	32 (1ZZ-FE)		
H5	32 (1ZZ-FE)		34 (2ZZ-GE)		

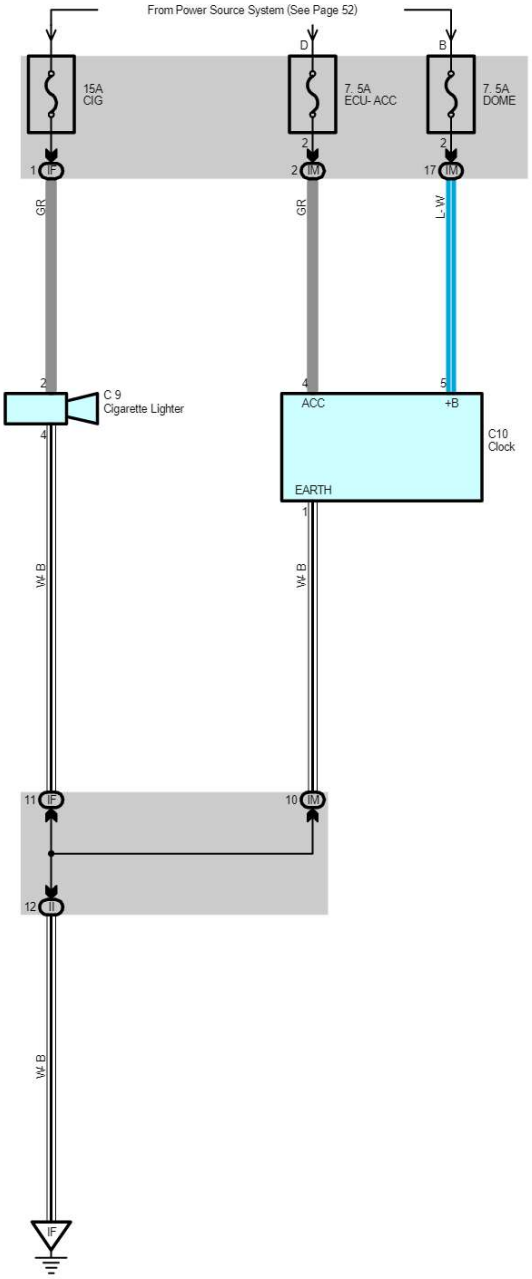
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

Cigarette Lighter and Clock for USA



Service Hints

C9 Cigarette Lighter

2-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4-Ground : Always continuity

C10 Clock

5-Ground : Always 12 volts (Power for clock)
4-Ground : Approx. 12 volts with the ignition SW at ACC or ON position (Power for indication)
1-Ground : Always continuity

O : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C9	36	C10	36		

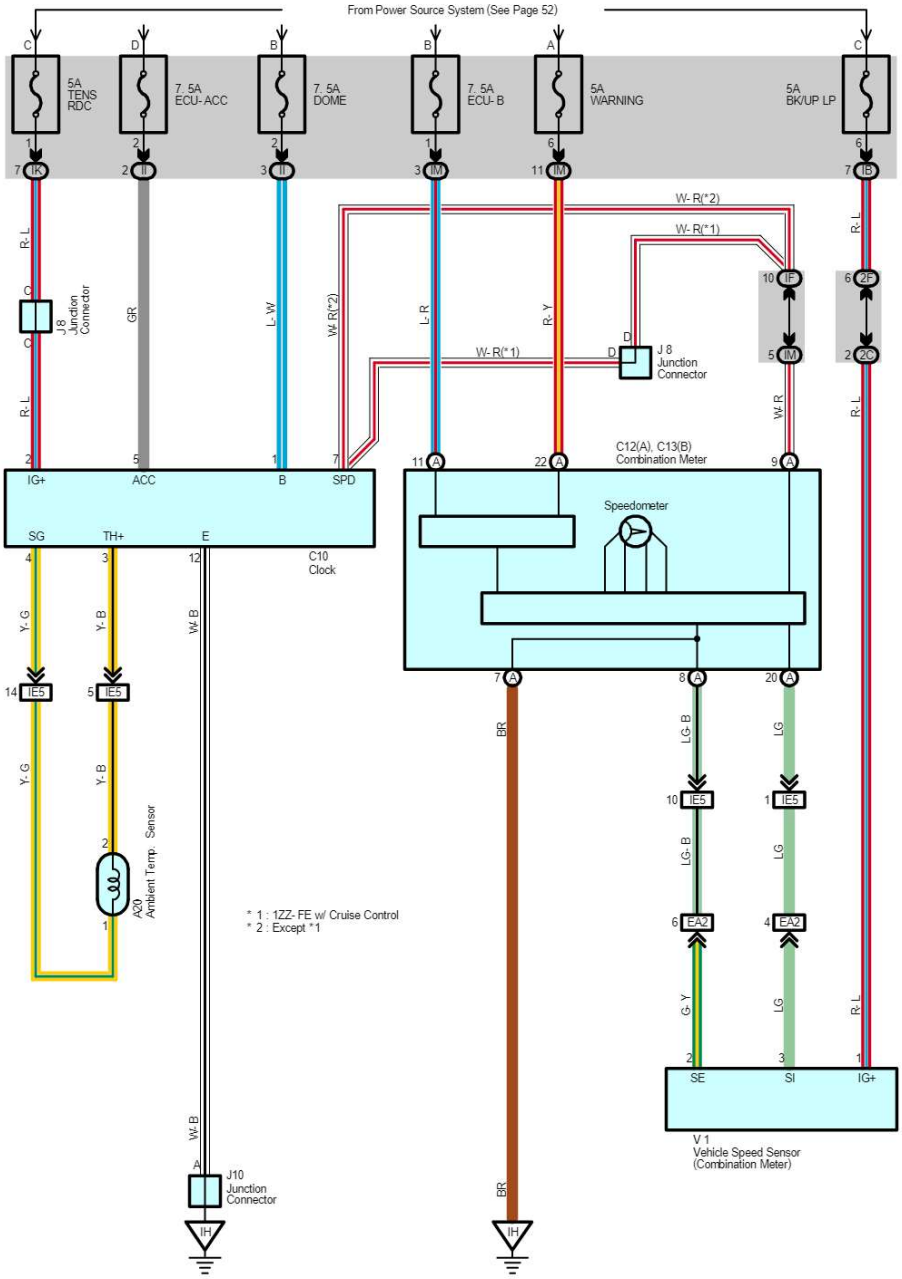
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IM		

: GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH

Clock for Canada



Service Hints

C10 Clock

1-Ground : Always approx. 12 volts
12-Ground : Always continuity
5-Ground : Approx. 12 volts with the ignition SW at ACC or ON position

○ : PARTS LOCATION

Code	See Page	Code		See Page	Code	See Page
A20	32 (1ZZ-FE)	C12	A	36	J10	37
	34 (2ZZ-GE)	C13	B	36	V1	33 (1ZZ-FE)
C10	36	J8		37		35 (2ZZ-GE)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

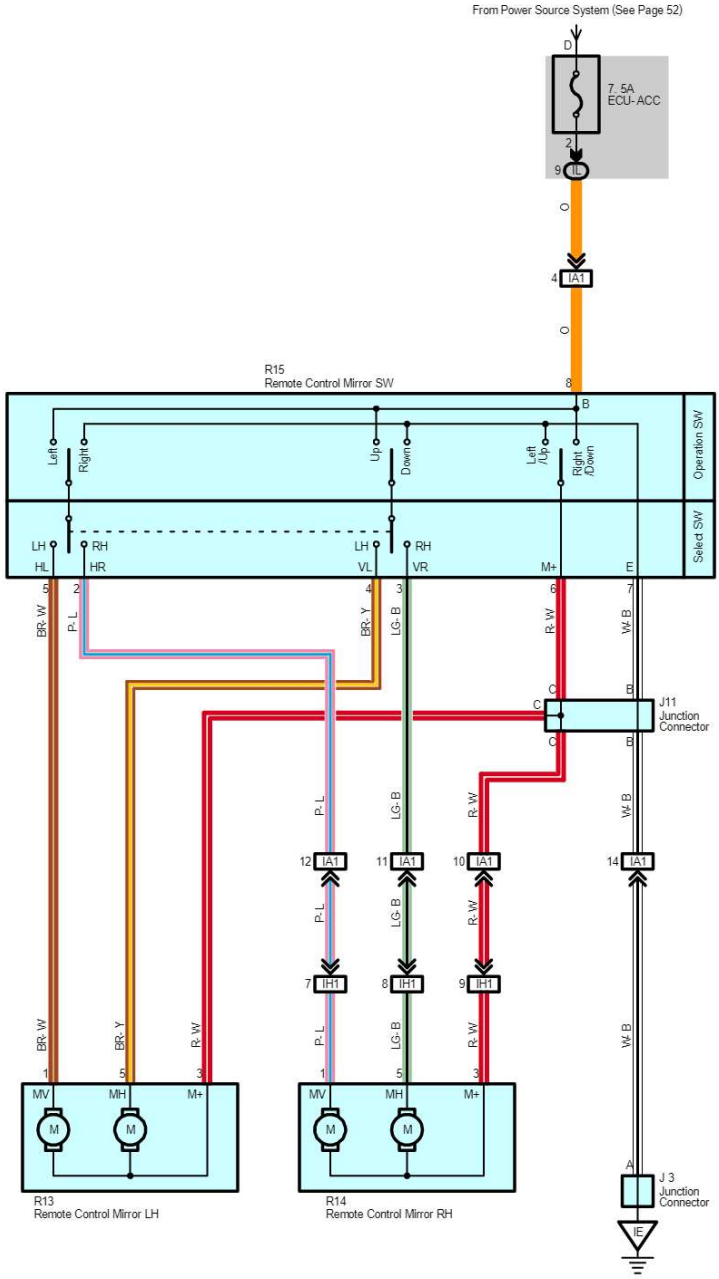
Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IK		
IM		
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	42 (2ZZ-GE)	
IE5	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IH	44	Cowl Side Panel RH


From Power Source System (See Page 52)
D
7.5A
ECU-ACC
2
9
O
4
IA1
O
R15
Remote Control Mirror SW
8
B
Left
Right
Up
Down
Left /Up
Right /Down
Operation SW
Select SW
LH
RH
HL
HR
LH
RH
VL
VR
M+
E
5
2
4
3
6
7
BR-W
P-L
BR-Y
LG-B
R-W
W-B
C
B
J11
Junction Connector
C
B
P-L
LG-B
R-W
W-B
12
IA1
11
IA1
10
IA1
14
IA1
P-L
LG-B
R-W
7
IH1
8
IH1
9
IH1
BR-W
BR-Y
R-W
P-L
LG-B
R-W
W-B
1
5
3
1
5
3
MV
MH
M+
MV
MH
M+
M
M
M
M
R13
Remote Control Mirror LH
R14
Remote Control Mirror RH
A
J 3
Junction Connector
IE

Service Hints

R15 Remote Control Mirror SW

8-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
6-7 : Continuity with the operation SW at UP or LEFT position
5-7 : Continuity with the operation SW at RIGHT position and the select SW at LH position
4-7 : Continuity with the operation SW at DOWN position and the select SW at LH position
2-7 : Continuity with the operation SW at RIGHT position and the select SW at RH position
3-7 : Continuity with the operation SW at DOWN position and the select SW at RH position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J3	37	R13	39	R15	39
J11	38	R14	39		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

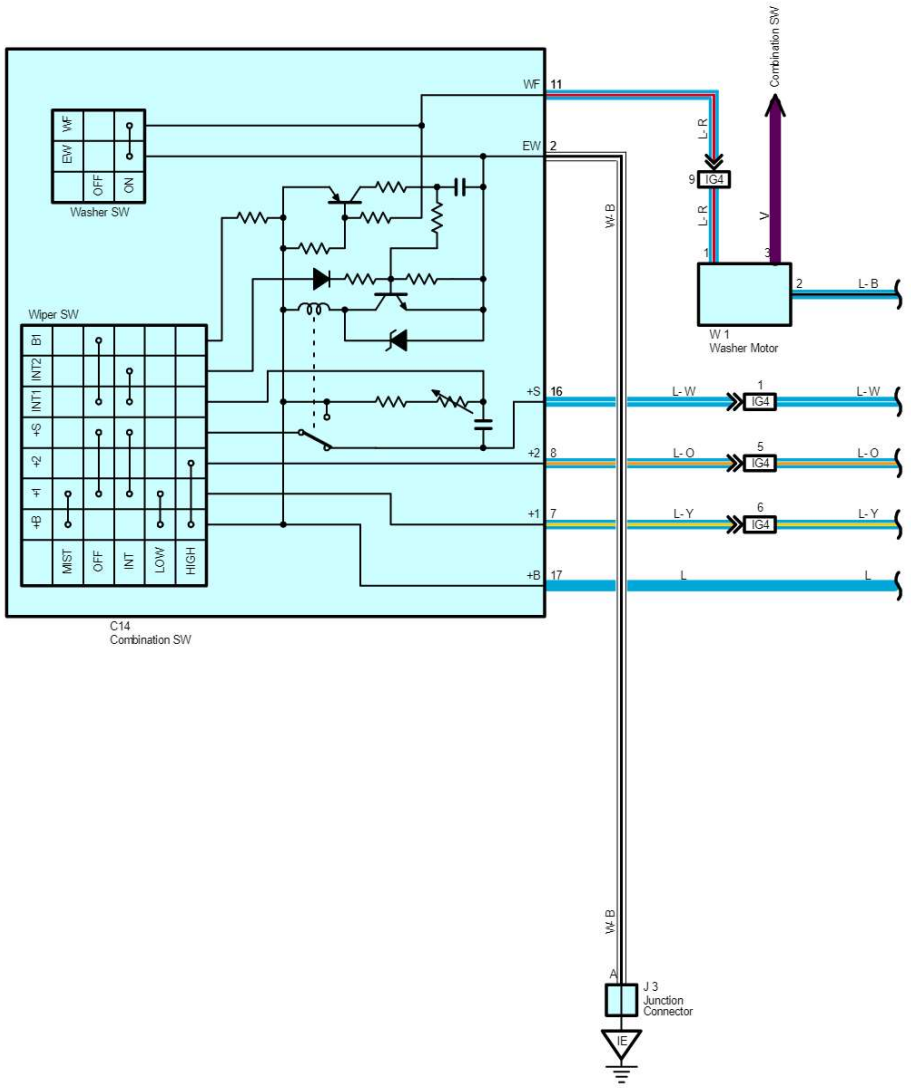
Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)

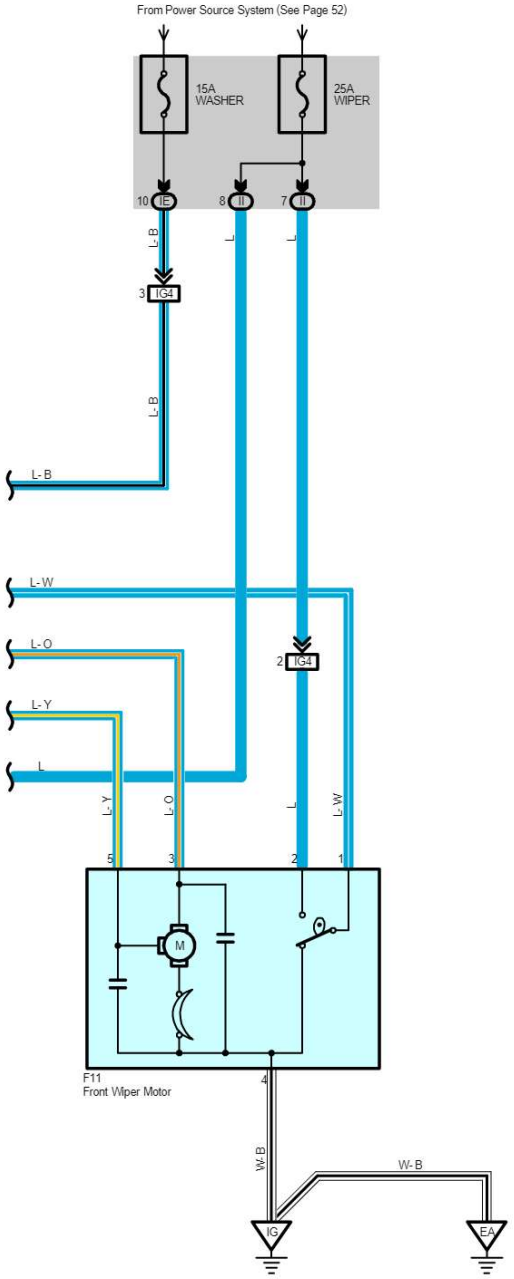
▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH


Combination SW
WF 11
EW 2
L-R
9 IG4
L-R
V
1
3
2
L-B
W 1
Washer Motor
W-B
Washer SW
WF
EW
OFF
ON
Wiper SW
B1
INT2
INT1
+S
+2
+1
+B
MIST
OFF
INT
LOW
HIGH
+S 16
+2 8
+1 7
+B 17
L-W
1 IG4
L-W
L-O
5 IG4
L-O
L-Y
6 IG4
L-Y
L
L
C14
Combination SW
W-B
A
J 3
Junction
Connector
IE


From Power Source System (See Page 52)
15A
WASHER
25A
WIPER
10
IE
8
IB
7
IB
L-B
L
L
3
IG4
L-B
L-B
L-W
L-O
2
IG4
L-Y
L
L-Y
L-O
L
L-W
5
3
2
1
M
F11
Front Wiper Motor
4
W-B
W-B
IG
EA

Front Wiper and Washer

System Outline

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

1. Low Speed Position

With the wiper SW turned to LOW position, current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to wiper motor to TERMINAL 4 to GROUND, causing the front wiper motor to run at low speed.

2. High Speed Position

With the wiper SW turned to HIGH position, current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 8 to TERMINAL 3 of the front wiper motor to wiper motor to TERMINAL 4 to GROUND, causing the front wiper motor to run at high speed.

3. INT Position

With the wiper SW turned to INT position, the relay operates and the current which is connected by relay function flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 2 to GROUND. This operates the intermittent circuit and current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to wiper motor to TERMINAL 4 to GROUND, and operating the wiper.
The intermittent operation is controlled by a condenser's charged and discharged function installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. MIST Position

With the wiper SW turned to MIST position, current flows from TERMINAL 17 of the front wiper and washer SW to front wiper mist SW to TERMINAL 2 to GROUND, and current flows from TERMINAL 17 to TERMINAL 7 to TERMINAL 5 of the wiper motor to wiper motor to TERMINAL 4 to GROUND, causing the front wiper motor to run at low speed.

5. Washer Interlocking Operation

With the washer SW pushed to on, current flows from TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 11 of the front wiper and washer SW to TERMINAL 2 to GROUND, causing the washer motor to run, and the window washer emits a water spray. This causes current to flow to washer continuity operation circuit in TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to wiper motor to TERMINAL 4 to GROUND, operating the wiper.

Service Hints

C14 Combination SW

2-Ground : Always continuity
17-Ground : Approx. 12 volts with the ignition SW at ON position
7-Ground : Approx. 12 volts with the wiper and washer SW at LOW or MIST position
Approx. 12 volts 2 to 12 seconds intermittently with the wiper and washer SW at INT position
16-Ground : Approx. 12 volts with the ignition SW on unless the wiper motor at STOP position
8-Ground : Approx. 12 volts with the wiper and washer SW at HIGH position

F11 Front Wiper Motor

1-2 : Closed unless the wiper motor at STOP position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C14	36	F11	34 (2ZZ-GE)	W1	33 (1ZZ-FE)
F11	32 (1ZZ-FE)	J3	37		35 (2ZZ-GE)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

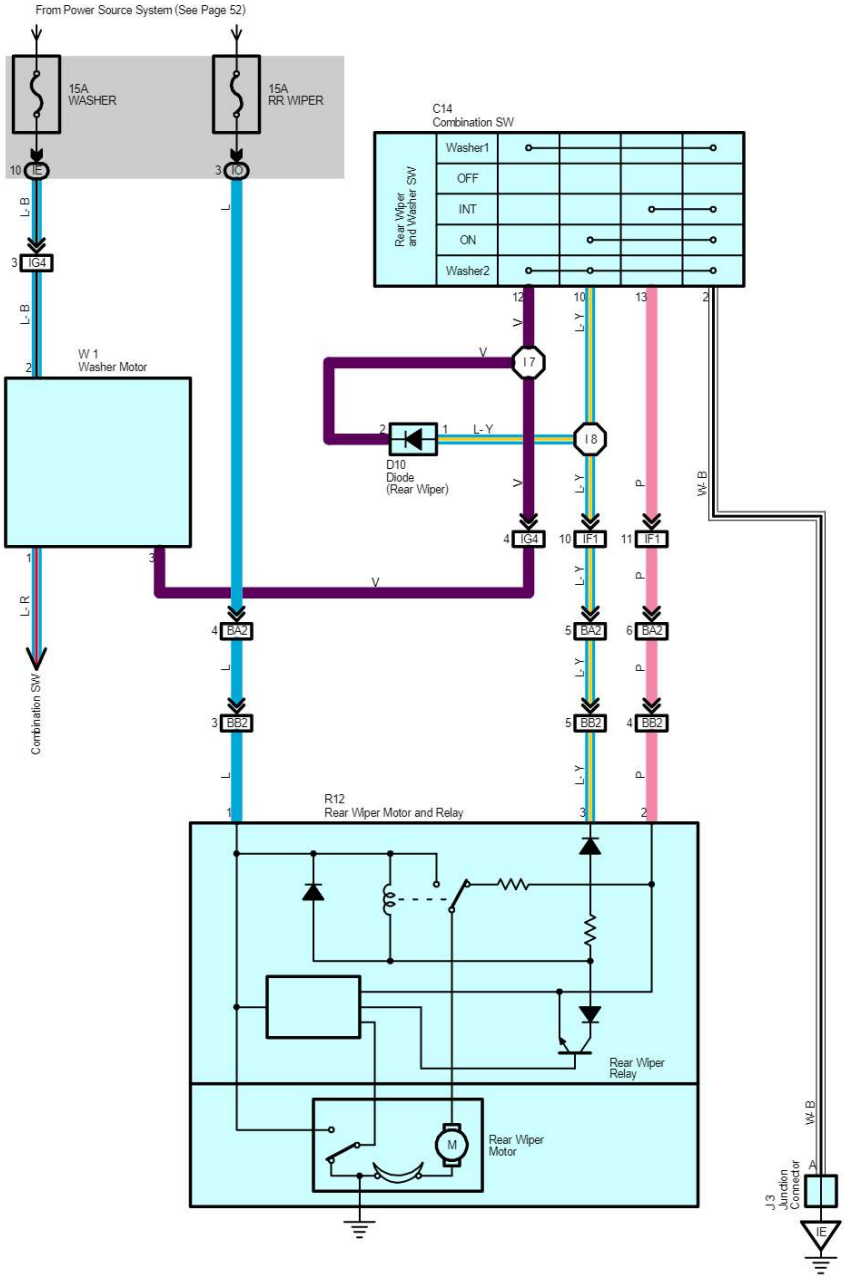
Code	See Page	Junction Block and Wire Harness (Connector Location)
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG4	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
IE	44	Cowl Side Panel LH
IG	44	Cowl Side Panel RH


From Power Source System (See Page 52)
15A
WASHER
15A
RR WIPER
C14
Combination SW
Rear Wiper and Washer SW
Washer1
OFF
INT
ON
Washer2
W 1
Washer Motor
D10
Diode
(Rear Wiper)
I7
I8
IG4
IF1
BA2
BB2
IE
R12
Rear Wiper Motor and Relay
Rear Wiper
Relay
Rear Wiper
Motor
M
Combination SW
J3
Junction
Connector
W-B
L-B
L-R
L-Y
L
V
P

System Outline

When the ignition SW is turned on, current flows to TERMINAL 2 of the washer motor, TERMINAL 1 of the rear wiper motor and relay through the RR WIPER fuse.

1. Rear Wiper Normal Operation

With the ignition SW turned on and rear wiper and washer SW turned on, current to TERMINAL 1 of the rear wiper motor and relay flows to TERMINAL 3 of the rear wiper motor and relay to TERMINAL 10 of the rear wiper and washer SW to TERMINAL 2 to GROUND. Thus, the relay coil is activated and current to the rear wiper motor to motor to GROUND, causing the motor to operate the wiper.

2. Rear Wiper Intermittent Operation

When the ignition SW is turned on and the rear wiper and washer SW is turned to INT position, current to TERMINAL 1 of the rear wiper motor and relay flows to TERMINAL 2 of the rear wiper motor and relay to TERMINAL 13 of the rear wiper and washer SW to TERMINAL 2 to GROUND.
This causes the motor to operate (The point changes) and the intermittent circuit of the relay operates. Intermittent operation of the circuit is controlled by the charging and discharging of the condenser installed inside the relay.

3. Washer Operation

With the ignition SW turned on and the rear wiper and washer SW turned to ON position, when the washer is turned ON (to Wiper ON side), current to TERMINAL 2 of the washer motor flows to TERMINAL 3 of the motor to TERMINAL 12 of the rear wiper and washer SW to TERMINAL 2 to GROUND so that the washer motor rotates and the window washer emits water.
With the ignition SW turned on and the rear wiper and washer SW turned to OFF position, when the washer is turned ON (to Wiper OFF side), current flows as above so that the washer motor rotates and the window washer emits water as well as the wiper operates.

Service Hints

W1 Washer Motor

2-Ground : Approx. 12 volts with the ignition SW at ON position
3-Ground : Continuity with the washer SW turned on

R12 Rear Wiper Motor and Relay

1-Ground : Approx. 12 volts with the ignition SW at ON position
2-Ground : Continuity with the rear wiper and washer SW at INT position
3-Ground : Continuity with the rear wiper and washer SW at ON position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C14	36	J3	37	W1	33 (1ZZ-FE)
D10	36	R12	39		35 (2ZZ-GE)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG4	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA2	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB2	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

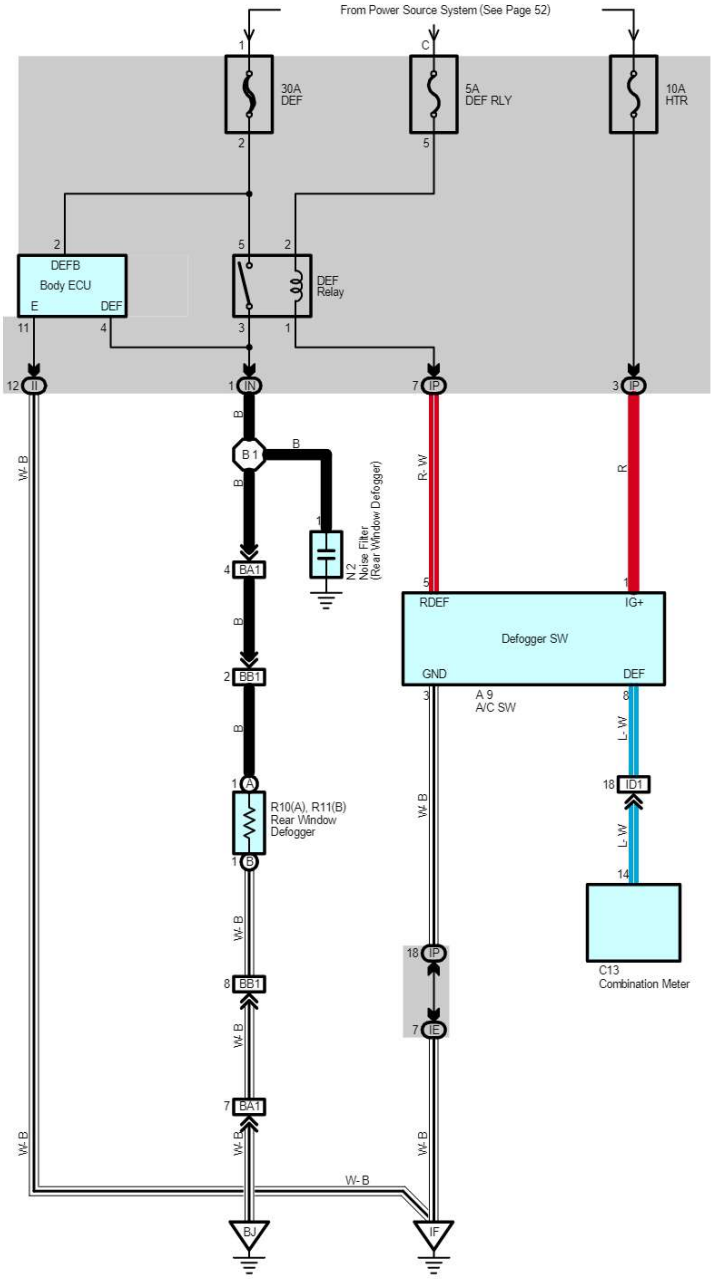
: GROUND POINTS

Code	See Page	Ground Points Location
IE	44	Cowl Side Panel LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I7	46	Instrument Panel Wire	I8	46	Instrument Panel Wire

Rear Window Defogger



Service Hints

DEF Relay

5-3 : Closed with the ignition SW at ON position and the defogger SW on

A9 A/C SW

1-Ground : Approx. 12 volts with the ignition SW at ON position
3-Ground : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A9	36	N2	39	R11 B	39
C13	36	R10 A	39		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IE II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IP	25	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	44	Cowl No.2 Wire and Instrument Panel Wire (Instrument Panel Brace LH)
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

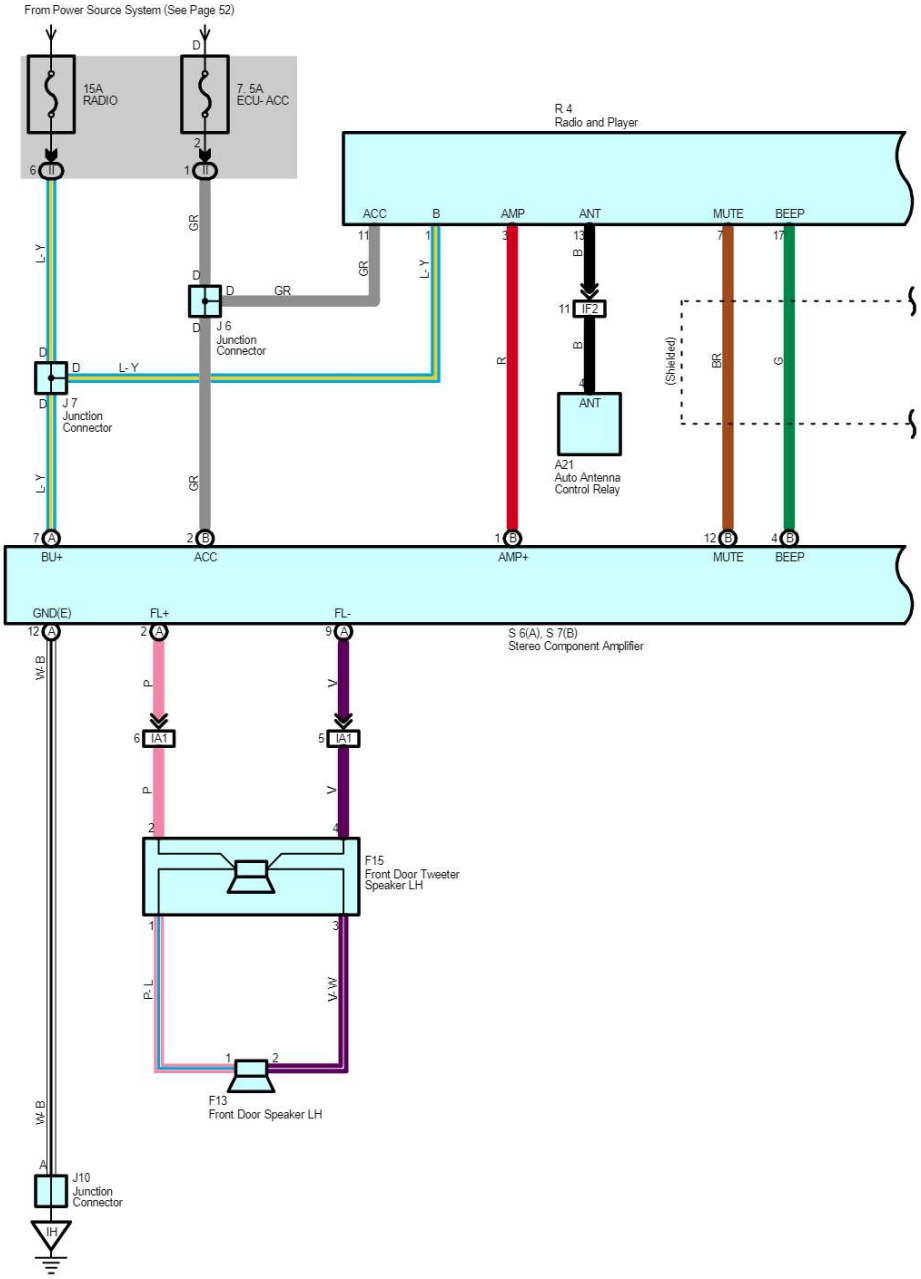
: GROUND POINTS

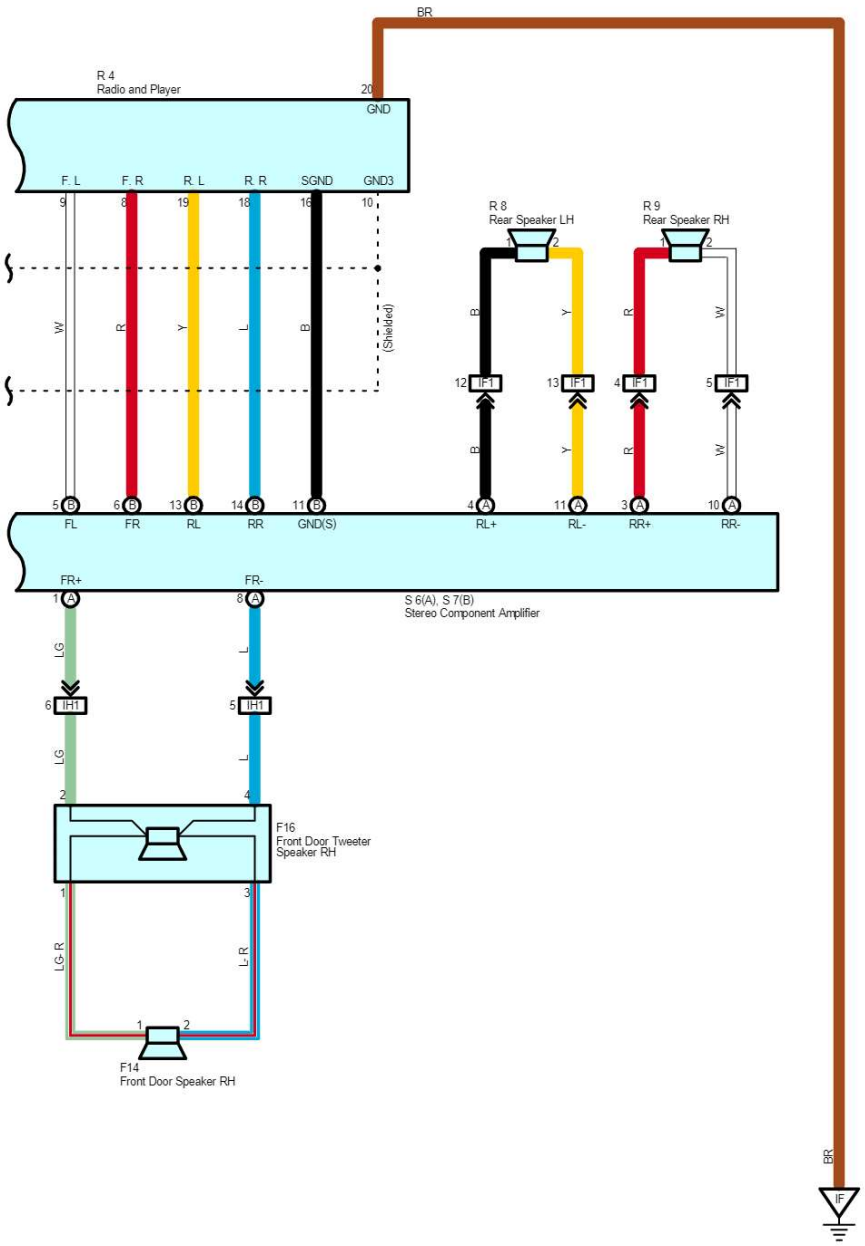
Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH
BJ	48	Luggage Room Left

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	48	Floor Wire			

Audio System for Separate Type Amplifier




BR
R 4
Radio and Player
20
GND
F. L
F. R
R. L
R. R
SGND
GND3
9
8
19
18
16
10
W
R
Y
L
B
(Shielded)
R 8
Rear Speaker LH
R 9
Rear Speaker RH
12 IF1
13 IF1
4 IF1
5 IF1
5 B
6 B
13 B
14 B
11 B
4 A
11 A
3 A
10 A
FL
FR
RL
RR
GND(S)
RL+
RL-
RR+
RR-
FR+
FR-
1 A
8 A
S 6(A), S 7(B)
Stereo Component Amplifier
LG
L
6 IH1
5 IH1
2
4
F16
Front Door Tweeter
Speaker RH
1
3
LG-R
L-R
1
2
F14
Front Door Speaker RH
BR
IF

Service Hints

S6 (A), S7 (B) Stereo Component Amplifier

(B) 2-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A)12-Ground : Always continuity
(A) 7-Ground : Always approx. 12 volts

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code		See Page
A21	38	J6	37	R9		39
F13	38	J7	37	S6	A	37
F14	38	J10	37	S7	B	37
F15	38	R4	37			
F16	38	R8	39			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)

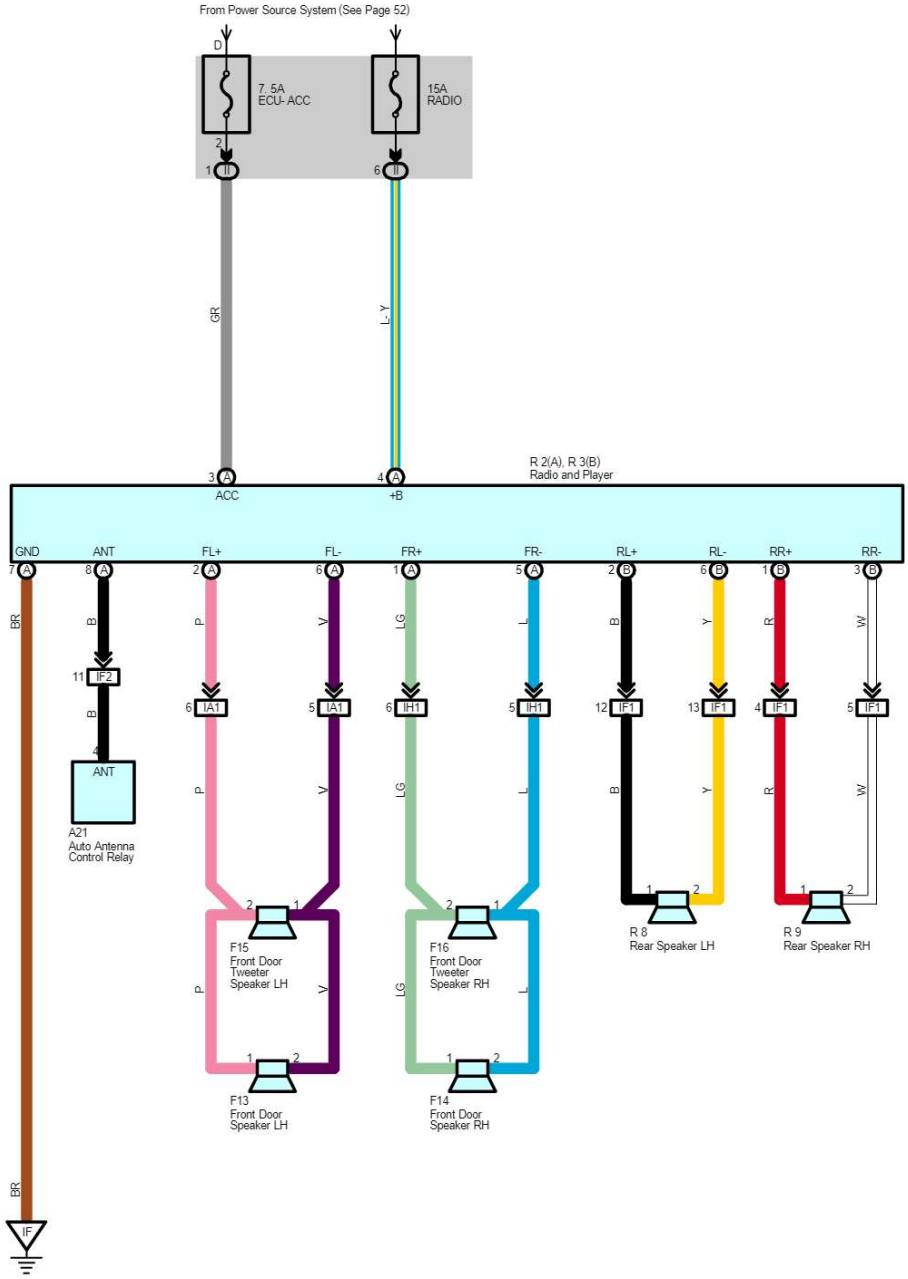
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF2		
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

Audio System for Built-In Type Amplifier



Service Hints

R2 (A) Radio and Player

(A) 4-Ground : Always approx. 12 volts
(A) 3-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 7-Ground : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A21	38	F15	38	R3 B	37
F13	38	F16	38	R8	39
F14	38	R2 A	37	R9	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)

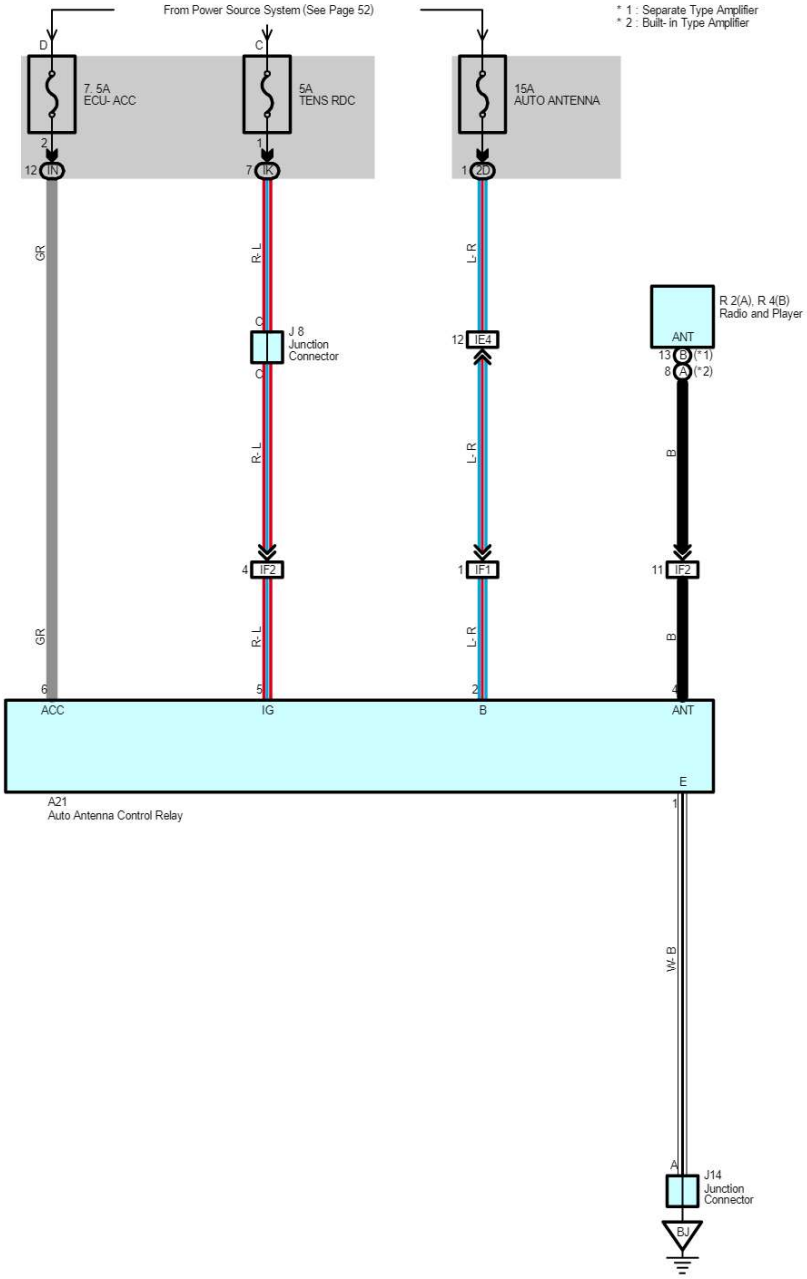
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF2		
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	44	Instrument Panel Brace RH

Auto Antenna



Service Hints

A21 Auto Antenna Control Relay

1-Ground : Always continuity
2-Ground : Always approx. 12 volts
6-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
5-Ground : Approx. 12 volts with the ignition SW at ON or ST position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A21	38	J14	38	R4 B	37
J8	37	R2 A	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
II	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IK		
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

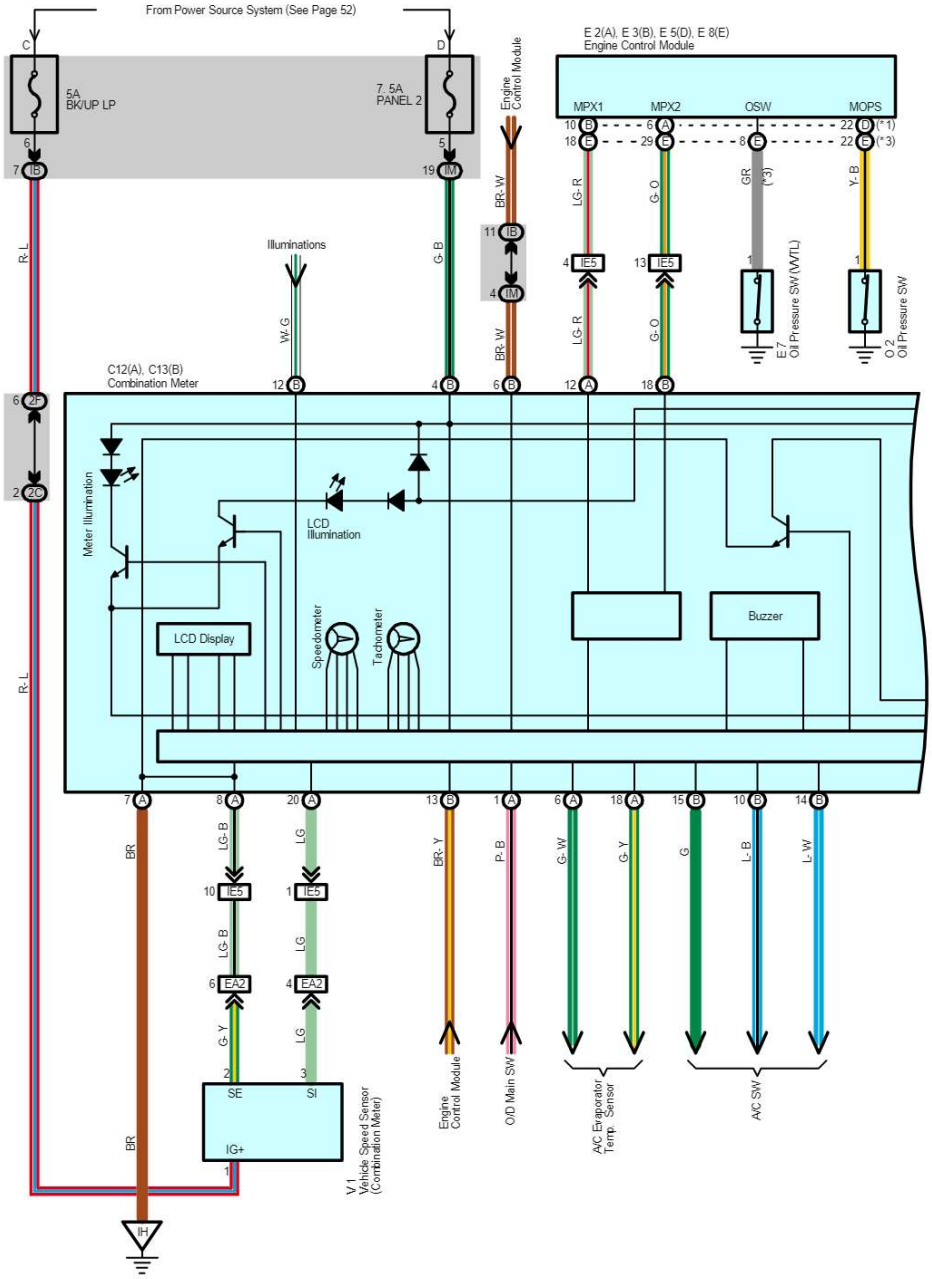
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

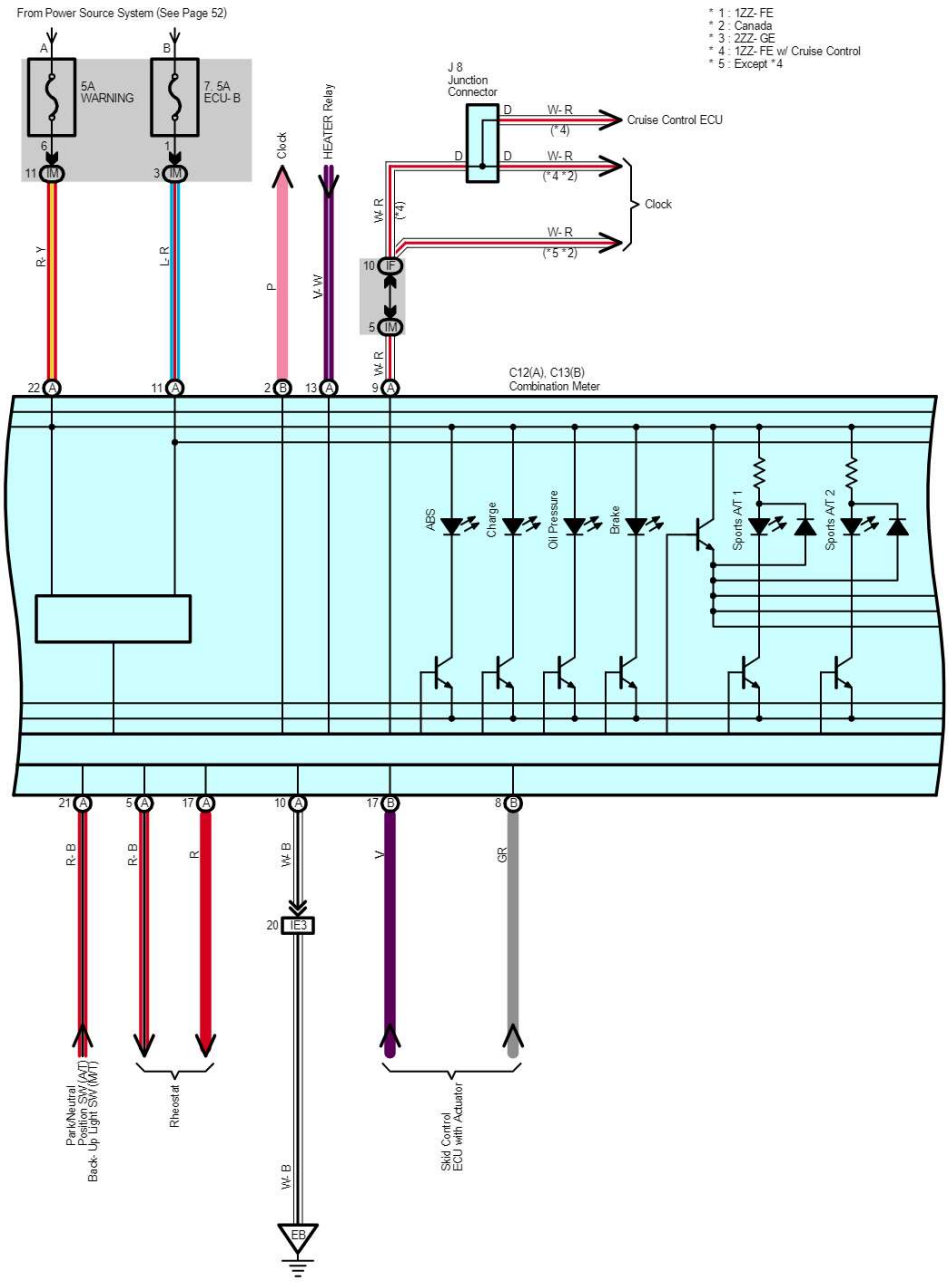
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF1	46	Floor Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IF2		

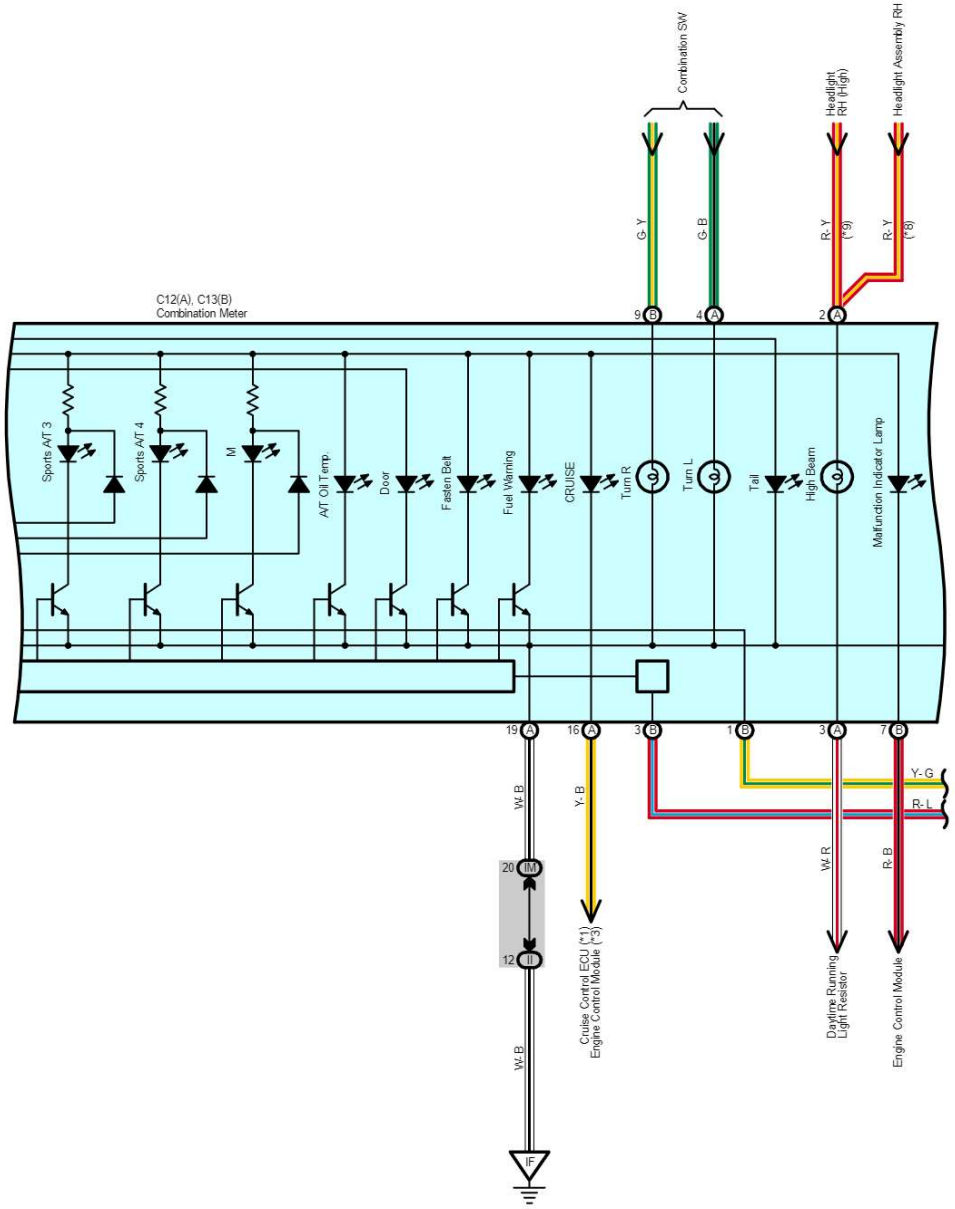
: GROUND POINTS

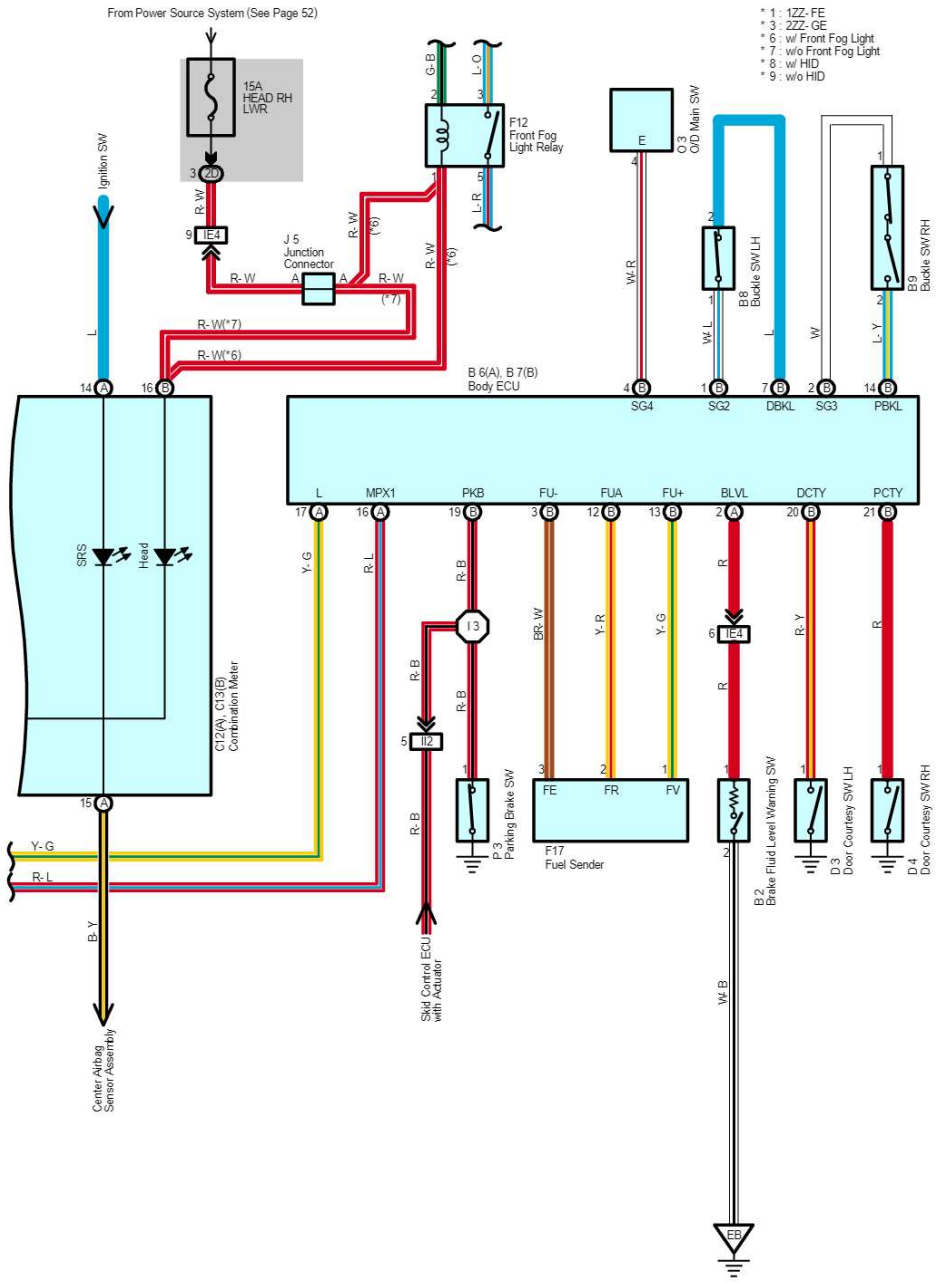
Code	See Page	Ground Points Location
BJ	48	Luggage Room Left

Combination Meter




From Power Source System (See Page 52)
* 1 : 1ZZ- FE
* 2 : Canada
* 3 : 2ZZ- GE
* 4 : 1ZZ- FE w/ Cruise Control
* 5 : Except *4
5A WARNING
7.5A ECU- B
J 8 Junction Connector
Cruise Control ECU
Clock
HEATER Relay
C12(A), C13(B) Combination Meter
ABS
Charge
Oil Pressure
Brake
Sports A/T 1
Sports A/T 2
Park/Neutral Position SW (A/T)
Back- Up Light SW (M/T)
Rheostat
Skid Control ECU with Actuator


Combination SW
Headlight RH (High)
Headlight Assembly RH
G-Y
G-B
R-Y (*9)
R-Y (*8)
C12(A), C13(B)
Combination Meter
9 B
4 A
2 A
Sports A/T 3
Sports A/T 4
M
A/T Oil Temp.
Door
Fasten Belt
Fuel Warning
CRUISE
Turn R
Turn L
Tail
High Beam
Malfunction Indicator Lamp
19 A
16 A
3 B
1 B
3 A
7 B
W-B
Y-B
Y-G
R-L
W-R
R-B
20 IM
12 IF
W-B
IF
Cruise Control ECU (*1)
Engine Control Module (*3)
Daytime Running Light Resistor
Engine Control Module


From Power Source System (See Page 52)
* 1 : 1ZZ-FE
* 3 : 2ZZ-GE
* 6 : w/ Front Fog Light
* 7 : w/o Front Fog Light
* 8 : w/ HID
* 9 : w/o HID
15A HEAD RH LWR
Ignition SW
F12 Front Fog Light Relay
O3 O/D Main SW
B8 Buckle SW LH
B9 Buckle SW RH
J 5 Junction Connector
B 6(A), B 7(B) Body ECU
SG4
SG2
DBKL
SG3
PBKL
L
MPX1
PKB
FU-
FUA
FU+
BLVL
DCTY
PCTY
SRS
Head
C12(A), C13(B) Combination Meter
P3 Parking Brake SW
F17 Fuel Sender
FE
FR
FV
B2 Brake Fluid Level Warning SW
D3 Door Courtesy SW LH
D4 Door Courtesy SW RH
Skid Control ECU with Actuator
Center Airbag Sensor Assembly
EB

Combination Meter

Service Hints

B2 Brake Fluid Level Warning SW
1-2 : Closed with the float down

P3 Parking Brake SW
1-Ground : Closed with the parking brake lever pulled up

O2 Oil Pressure SW
1-Ground : Opened with the oil pressure above approx. 0.2 kgf/cm^2 (2.8 psi, 19.6 kpa)

C12 (A) Combination Meter
(A)22-Ground : Approx. 12 volts with the ignition SW at ON position
(A)11-Ground : Always approx. 12 volts
(A) 7, (A) 10, (A) 19-Ground : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B2	32 (1ZZ-FE)	D4	38	J8	37
	34 (2ZZ-GE)	E2 A	32 (1ZZ-FE)	O2	33 (1ZZ-FE)
B6 A	36	E3 B	32 (1ZZ-FE)		35 (2ZZ-GE)
B7 B	36	E5 D	32 (1ZZ-FE)	O3	37
B8	36	E7	34 (2ZZ-GE)	P3	37
B9	36	E8 E	34 (2ZZ-GE)	V1	33 (1ZZ-FE)
C12 A	36	F12	36		35 (2ZZ-GE)
C13 B	36	F17	38		
D3	38	J5	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
II		
IM		
2C	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	42 (2ZZ-GE)	
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE4		
IE5		
II2	46	Engine Room Main Wire and Floor Wire (Instrument Panel Brace LH)

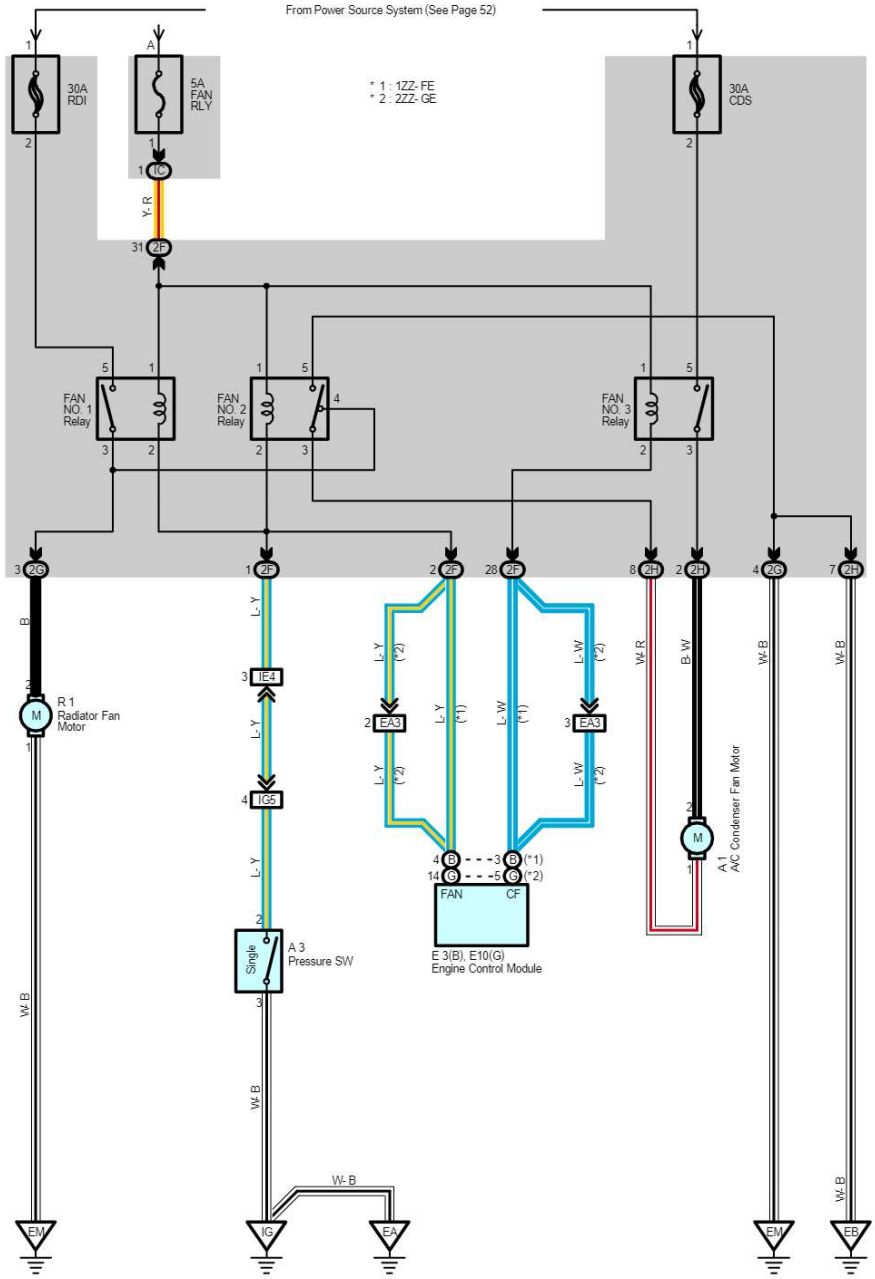
: GROUND POINTS

Code	See Page	Ground Points Location
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IF	44	Instrument Panel Brace RH
IH	44	Cowl Side Panel RH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	I3	46	Floor Wire
	42 (2ZZ-GE)				

Radiator Fan and Condenser Fan



System Outline

Fan motor operation
The fan motor is operated according to the condition of the A/C operation, water temperature, or abnormality in the A/C system.

Service Hints

A3 Pressure SW

3-2 : Open above approx. 15.5 kgf/cm^2 (220 psi, 1520 kpa)
Close below approx. 12.5 kgf/cm^2 (178 psi, 1226 kpa)

○ : PARTS LOCATION

Code	See Page	Code		See Page	Code	See Page
A1	32 (1ZZ-FE)	A3		34 (2ZZ-GE)	R1	33 (1ZZ-FE)
	34 (2ZZ-GE)	E3	B	32 (1ZZ-FE)		35 (2ZZ-GE)
A3	32 (1ZZ-FE)	E10	G	34 (2ZZ-GE)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

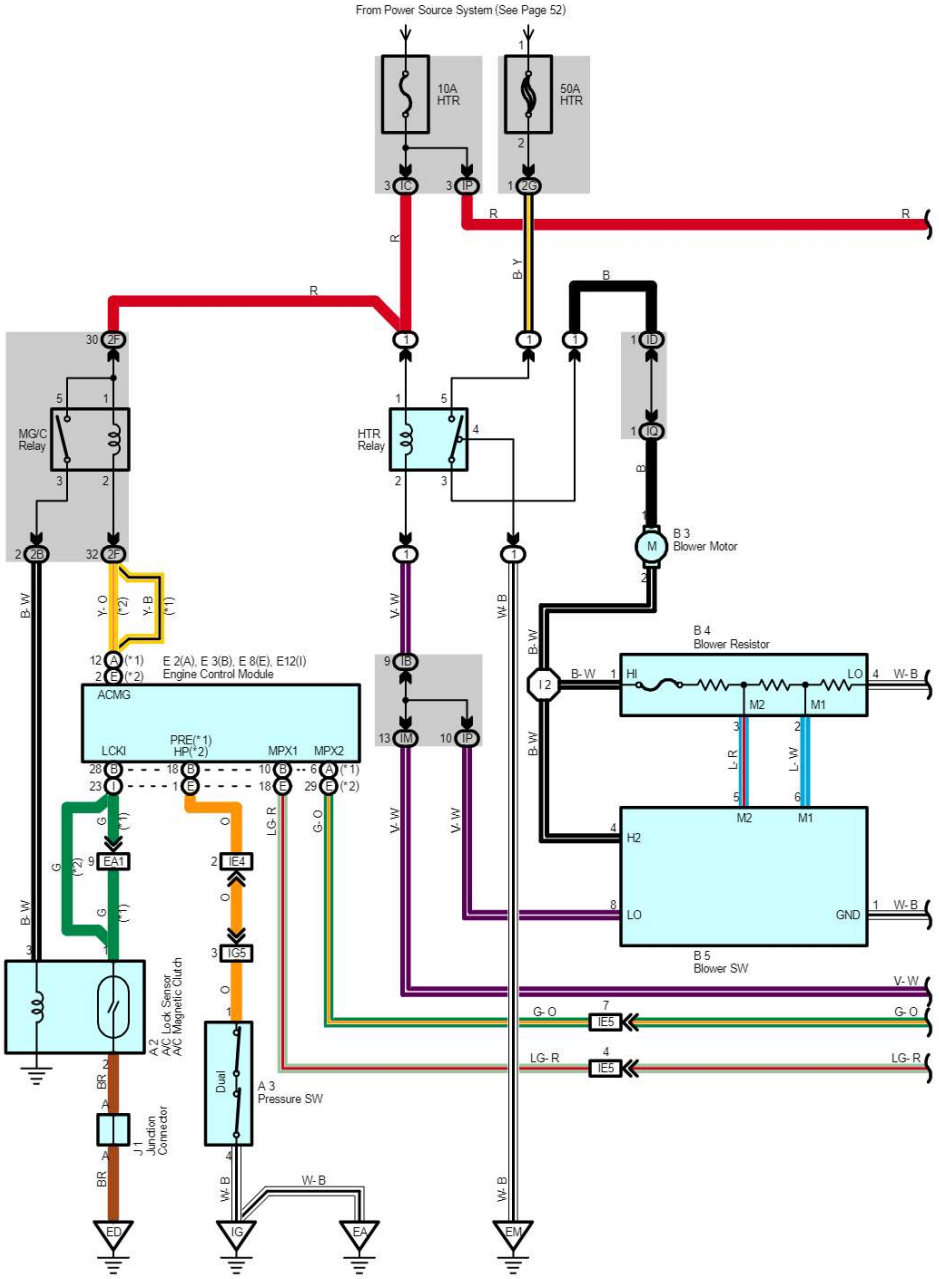
Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

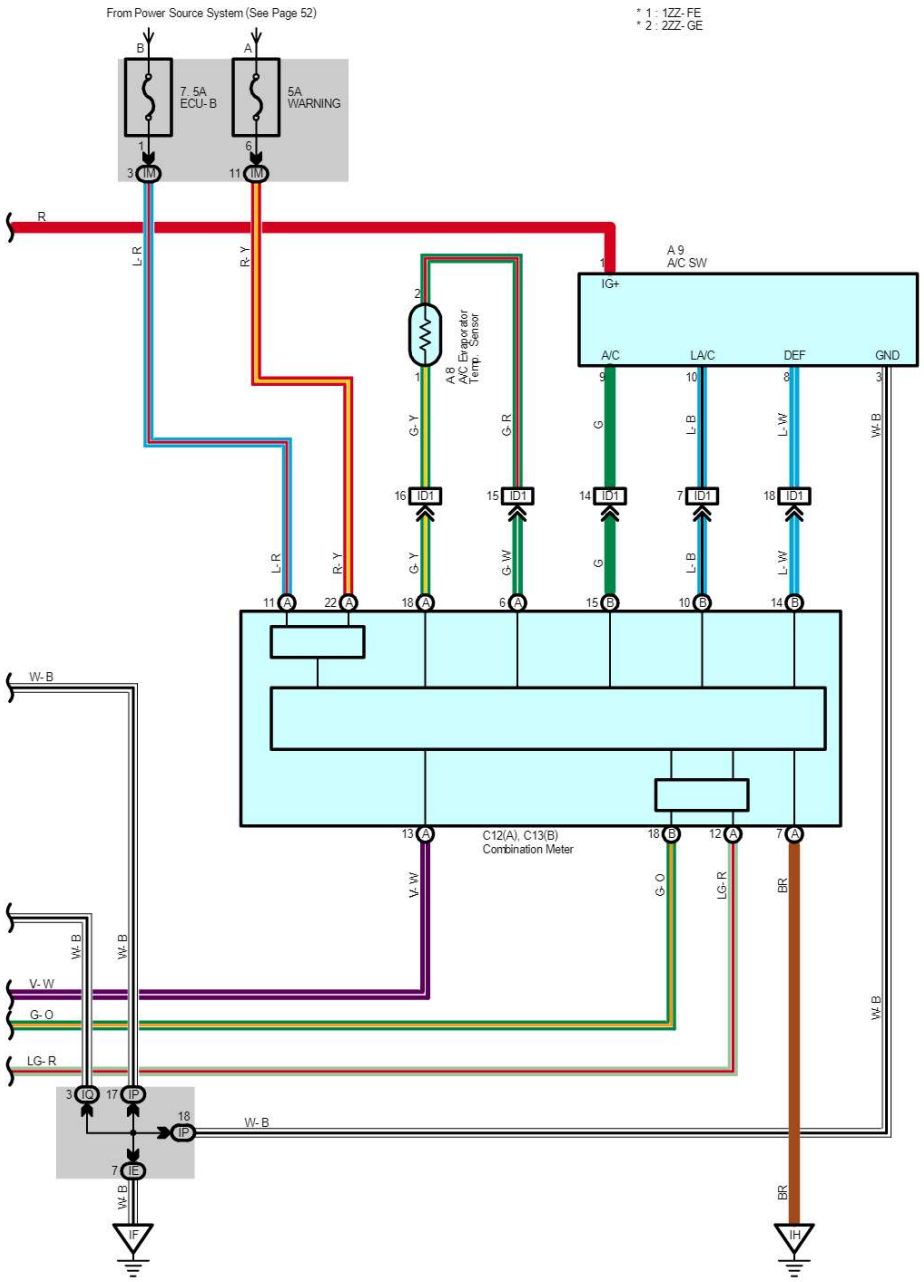
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA3	42 (2ZZ-GE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IG5	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	
	42 (2ZZ-GE)	
IG	44	Cowl Side Panel RH


From Power Source System (See Page 52)
10A HTR
50A HTR
MG/C Relay
HTR Relay
B 3 Blower Motor
B 4 Blower Resistor
HI
LO
M2
M1
H2
GND
B 5 Blower SW
E 2(A), E 3(B), E 8(E), E12(I) Engine Control Module
ACMG
LCKI
PRE(*1) HP(*2)
MPX1
MPX2
EA1
IE4
IG5
A 2 A/C Lock Sensor A/C Magnetic Clutch
A 3 Pressure SW
Dual
J 1 Junction Connector
ED
YG
EA
EM
B-W
Y-O
Y-B
V-W
W-B
B-Y
R
B
G
O
BR
L-R
L-W
LG-R
G-O


From Power Source System (See Page 52)
* 1 : 1ZZ-FE
* 2 : 2ZZ-GE
7.5A ECU-B
5A WARNING
A 9 A/C SW
IG+
A/C
LA/C
DEF
GND
A 8 A/C Evaporator Temp. Sensor
C12(A), C13(B) Combination Meter
R
L-R
R-Y
G-Y
G-R
G
L-B
L-W
W-B
G-W
V-W
G-O
LG-R
BR

System Outline

1. Heater Blower Motor Operation

Current is applied at all times through the HTR fuse (50A) to TERMINAL 5 of the HTR relay.
When the ignition SW is turned on, current flows through the HTR fuse (10A) to TERMINAL 1 of the HTR relay to the coil side to TERMINAL 2 to TERMINAL 8 of the blower SW.

* Low speed operation
When the blower SW is moved to LO position, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to switch on. This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 4 to GROUND, causing the blower motor to rotate at low speed.

* Medium speed operation (Operation at M1, M2)
When the blower SW is moved to M1 position, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, turning the HTR relay to switch on. This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL 6 of the blower SW to TERMINAL 1 to GROUND. At this time, the blower resistance of the blower resistor is less than at low speed, so the blower motor rotates at medium low speed.
When the blower SW is moved to M2 position, current flows through the motor flows from TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL 5 of the blower SW to TERMINAL 1 to GROUND. At this time, resistance of the blower resistor is less than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation
When the blower SW is moved to HIGH position, current flows to TERMINAL 8 of the blower SW to TERMINAL 1 to GROUND, turning the HTR relay to switch on.
This causes the current to flow from the HTR fuse (50A) to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 4 of the blower SW to TERMINAL 1 to GROUND, causing the blower motor to rotate at high speed.

Service Hints

B4 Blower Resistor

1-3 : Approx. 0.47 Ω
1-2 : Approx. 1.42 Ω
1-4 : Approx. 2.28 Ω

B5 Blower SW

8-1 : Continuity with the blower SW at LO, M1, M2 and HI position
6-1 : Continuity with the blower SW at M1 position
5-1 : Continuity with the blower SW at M2 position
4-1 : Continuity with the blower SW at HI position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A2	32 (1ZZ-FE)	B3	36	E3 B	32 (1ZZ-FE)
	34 (2ZZ-GE)	B4	36	E8 E	34 (2ZZ-GE)
A3	32 (1ZZ-FE)	B5	36	E12 I	34 (2ZZ-GE)
	34 (2ZZ-GE)	C12 A	36	J1	33 (1ZZ-FE)
A8	36	C13 B	36		35 (2ZZ-GE)
A9	36	E2 A	32 (1ZZ-FE)		

⬭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	25	Engine Room Main Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IC		
ID		
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IM		
IP	25	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IQ		
2B	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	42 (2ZZ-GE)	
ID1	44	Cowl No.2 Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE4	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE5		
IG5	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)

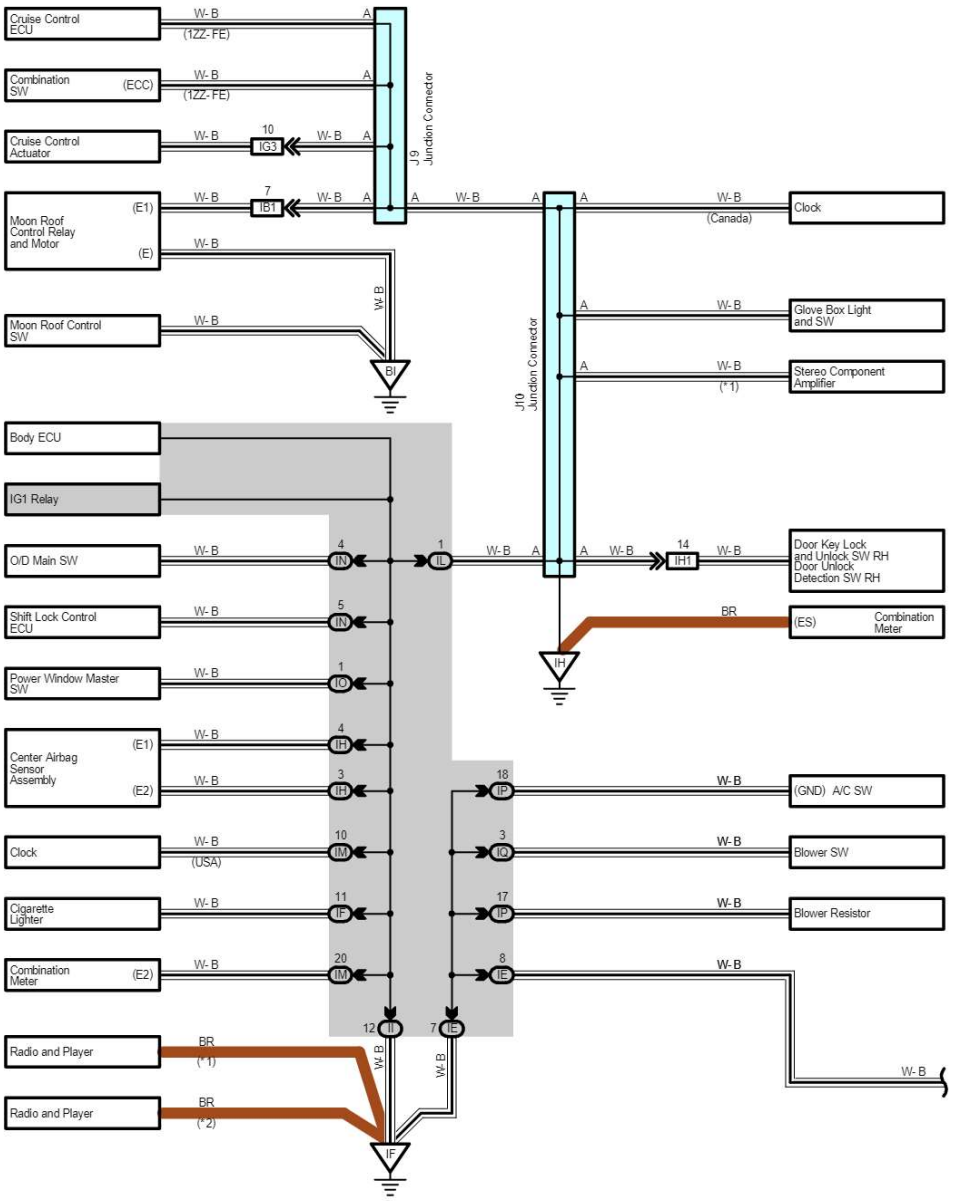
: GROUND POINTS

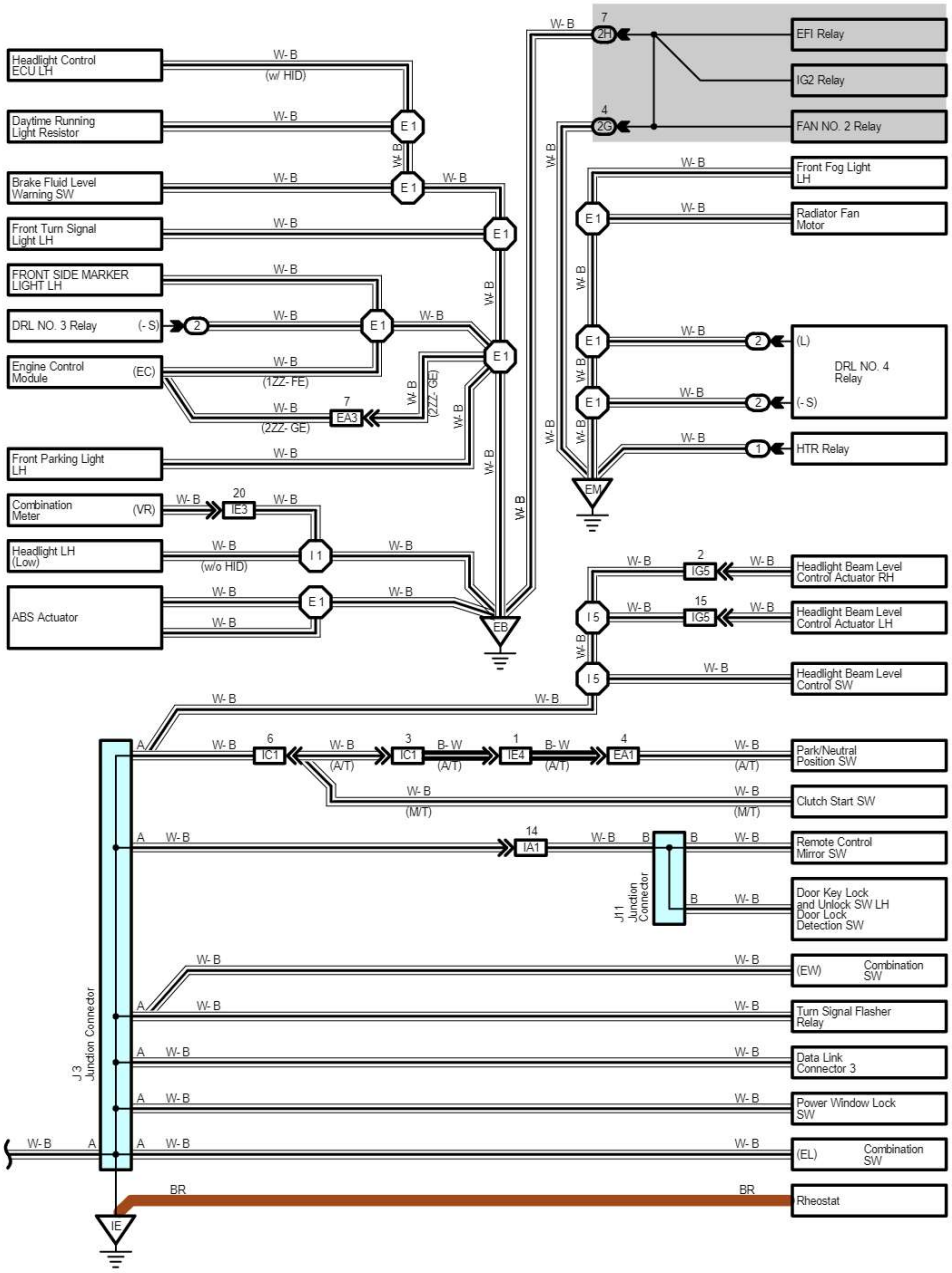
Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
ED	40 (1ZZ-FE)	Cylinder Head Cover LH
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
IF	44	Instrument Panel Brace RH
IG	44	Cowl Side Panel RH
IH		

: SPLICE POINTS

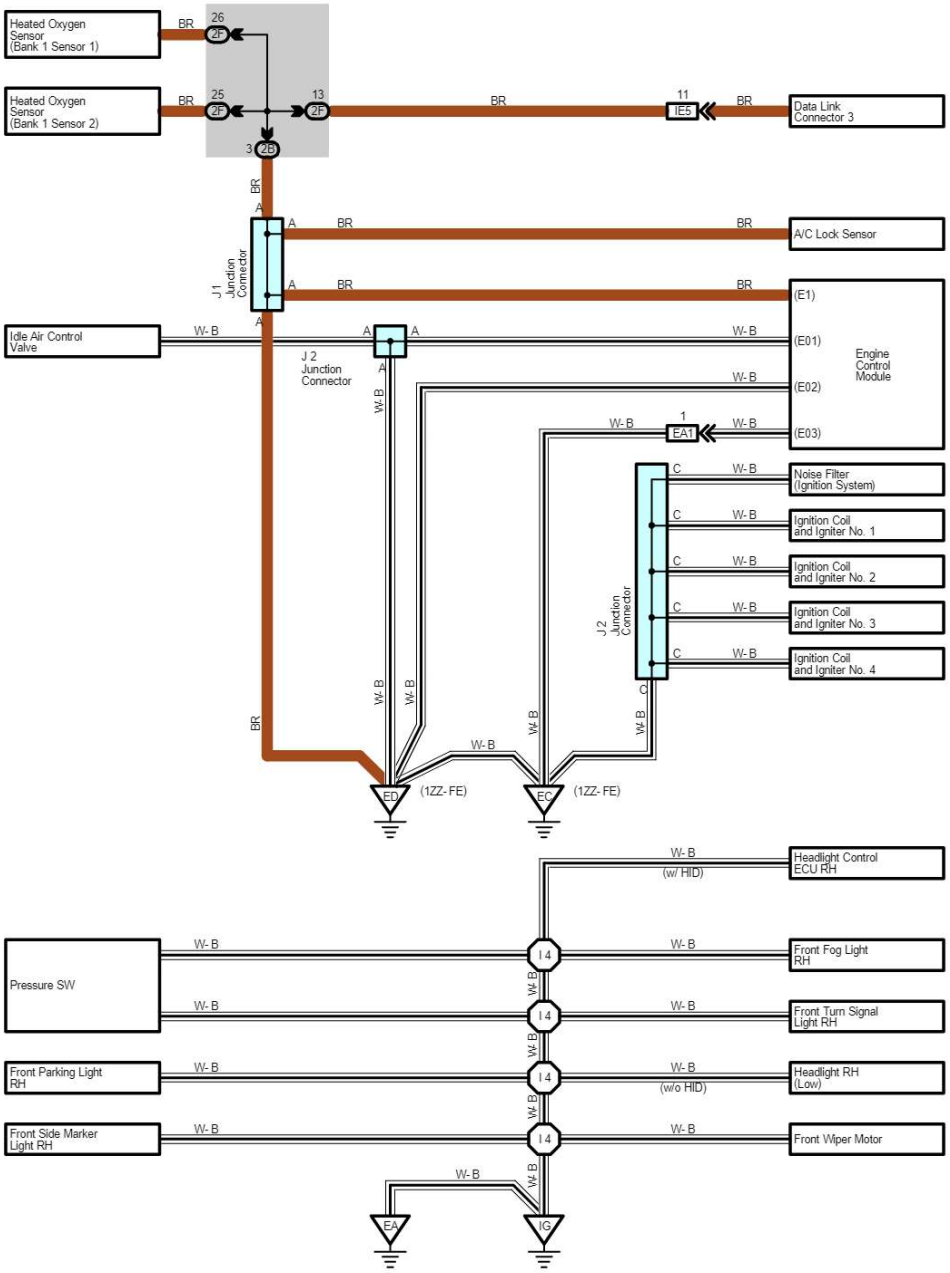
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	46	Cowl No.2 Wire			

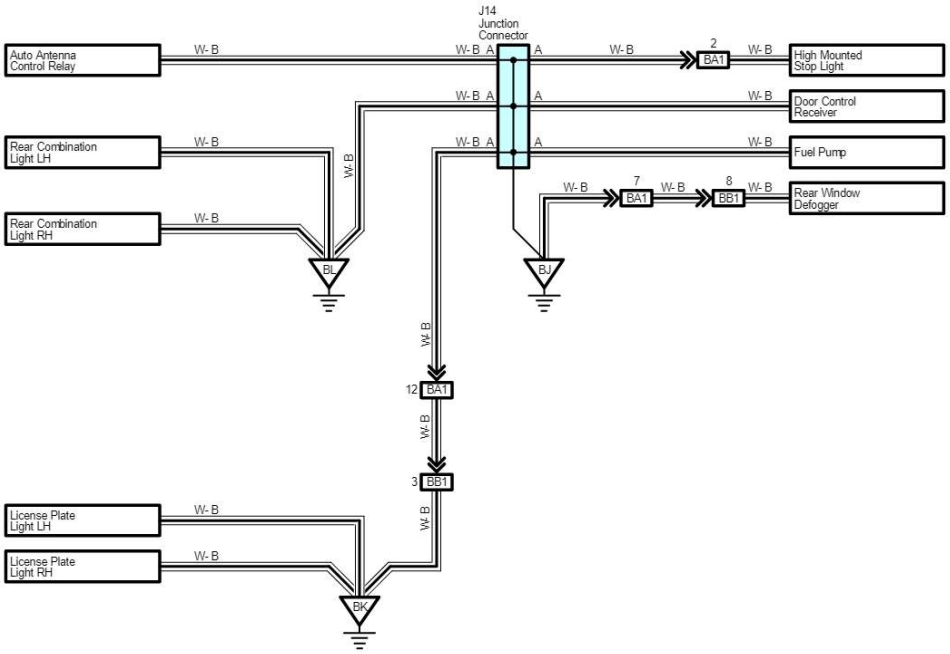
* 1 : Separate Type Amplifier
* 2 : Built- in Type Amplifier

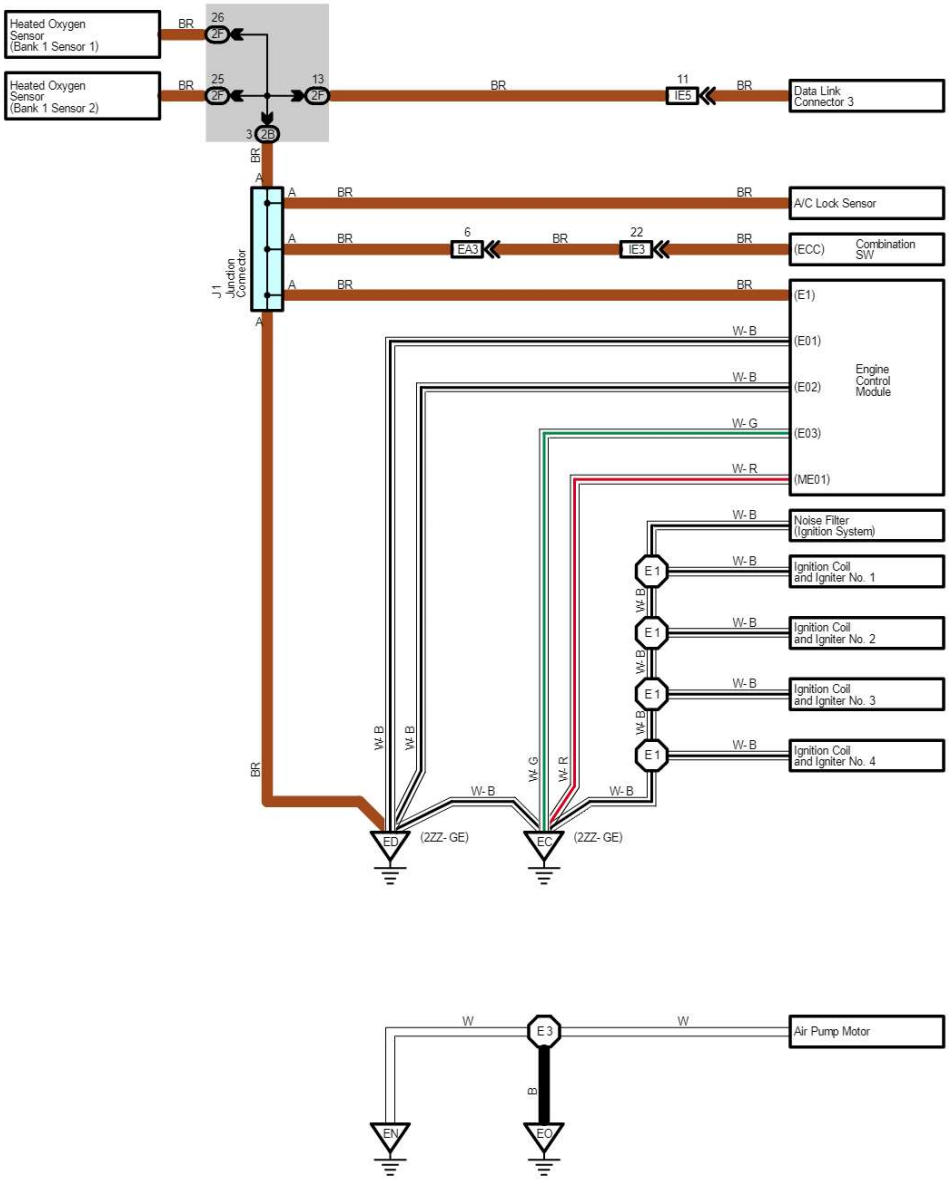



Headlight Control ECU LH
(w/ HID)
Daytime Running Light Resistor
Brake Fluid Level Warning SW
Front Turn Signal Light LH
FRONT SIDE MARKER LIGHT LH
DRL NO. 3 Relay
(- S)
Engine Control Module
(EC)
(1ZZ- FE)
(2ZZ- GE)
Front Parking Light LH
Combination Meter
(VR)
Headlight LH (Low)
(w/o HID)
ABS Actuator
EFI Relay
IG2 Relay
FAN NO. 2 Relay
Front Fog Light LH
Radiator Fan Motor
(L)
DRL NO. 4 Relay
(- S)
HTR Relay
Headlight Beam Level Control Actuator RH
Headlight Beam Level Control Actuator LH
Headlight Beam Level Control SW
Park/Neutral Position SW
(A/T)
Clutch Start SW
(M/T)
Remote Control Mirror SW
Door Key Lock and Unlock SW LH
Door Lock Detection SW
J11 Junction Connector
(EW)
Combination SW
Turn Signal Flasher Relay
Data Link Connector 3
Power Window Lock SW
(EL)
Combination SW
Rheostat
J3 Junction Connector
W- B
BR
E1
EB
EM
IE
I1
I5
IE3
IC1
IE4
EA1
IA1
IG5
2H
2G
EA3

I GROUND POINT




J14
Junction
Connector
Auto Antenna
Control Relay
W- B
W- B A
A
W- B
2
BA1
W- B
High Mounted
Stop Light
W- B A
A
W- B
Door Control
Receiver
Rear Combination
Light LH
W- B
W- B A
A
W- B
Fuel Pump
W- B
Rear Combination
Light RH
W- B
W- B
7
BA1
W- B
8
BB1
W- B
Rear Window
Defogger
BL
BJ
W- B
12
BA1
W- B
3
BB1
W- B
License Plate
Light LH
W- B
License Plate
Light RH
W- B
BK


Heated Oxygen Sensor (Bank 1 Sensor 1)
Heated Oxygen Sensor (Bank 1 Sensor 2)
BR
26
2F
25
2F
13
2F
3
2B
11
IE5
Data Link Connector 3
J1 Junction Connector
A/C Lock Sensor
6
EA3
22
IE3
(ECC)
Combination SW
(E1)
(E01)
(E02)
(E03)
(ME01)
Engine Control Module
W-B
W-G
W-R
Noise Filter (Ignition System)
E1
Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 4
ED
EC
(2ZZ-GE)
W
E3
B
Air Pump Motor
EN
EO

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J1	33 (1ZZ-FE)	J2	35 (2ZZ-GE)	J10	37
	35 (2ZZ-GE)	J3	37	J11	38
J2	33 (1ZZ-FE)	J9	37	J14	38

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	26	Engine Room R/B No.1 (Engine Compartment Left)
2	27	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IE	25	Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IF		
IH		
II		
IL		
IM		
IN	25	Floor Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IO		
IP	25	Cowl No.2 Wire and Instrument Panel J/B (Instrument Panel Brace RH)
IQ		
2B	23	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	40 (1ZZ-FE)	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B No.1)
	42 (2ZZ-GE)	
EA3	42 (2ZZ-GE)	
IA1	44	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB1	44	Roof Wire and Instrument Panel Wire (Left Kick Panel)
IC1	44	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Reinforcement LH)
IE3	44	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Brace LH)
IE4		
IE5		
IG3	46	Engine Room No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IG5		
IH1	46	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	48	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BB1	48	Back Door No.2 Wire and Back Door No.1 Wire (Back Door Upper Left)

I GROUND POINT

▽ : GROUND POINTS

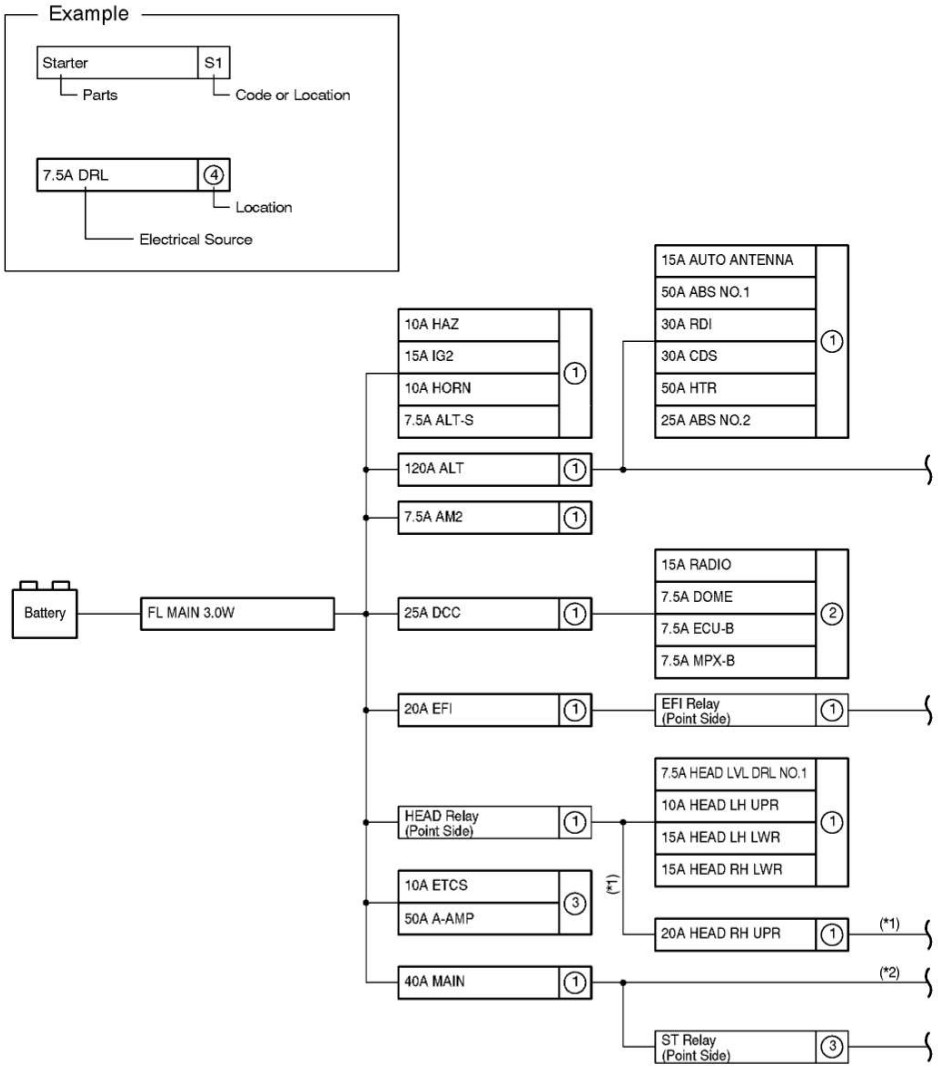
Code	See Page	Ground Points Location
EA	40 (1ZZ-FE)	Front Right Fender
	42 (2ZZ-GE)	
EB	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
EC	40 (1ZZ-FE)	Cylinder Head Cover LH
	42 (2ZZ-GE)	
ED	40 (1ZZ-FE)	
	42 (2ZZ-GE)	
EM	40 (1ZZ-FE)	Front Left Fender
	42 (2ZZ-GE)	
EN	42 (2ZZ-GE)	Air Pump Bracket
EO	42 (2ZZ-GE)	Engine Mount Brace RH
IE	44	Cowl Side Panel LH
IF	44	Instrument Panel Brace RH
IG	44	Cowl Side Panel RH
IH		
BI	48	Roof Left
BJ	48	Luggage Room Left
BK	48	Back Door Left
BL	48	Back Panel Center

○ : SPLICE POINTS

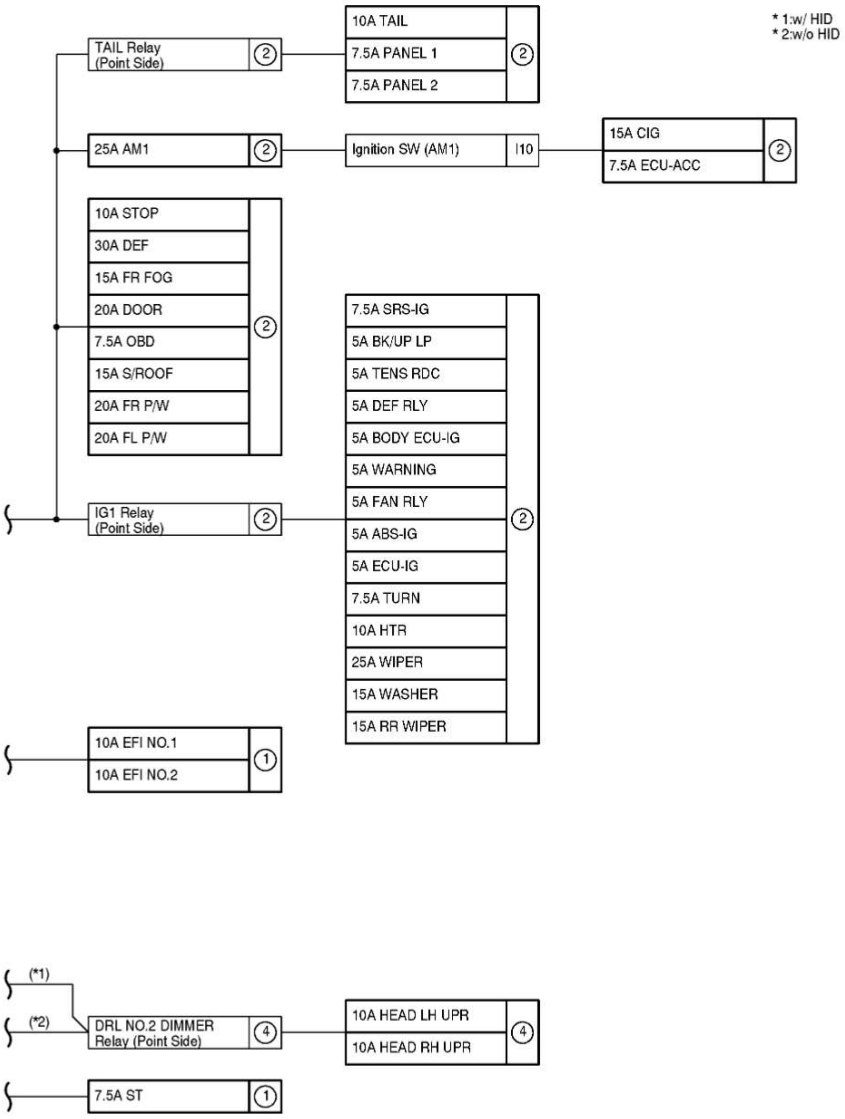
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	40 (1ZZ-FE)	Engine Room Main Wire	I1	46	Engine Room Main Wire
	42 (2ZZ-GE)		I4	46	Engine Room No.2 Wire
E3	42 (2ZZ-GE)	Engine Wire	I5	46	Instrument Panel Wire

J POWER SOURCE (Current Flow Chart)

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



[LOCATION] ① : Engine Room J/B (See page 22) ② : Instrument Panel J/B (See page 24)



③ : Engine Room R/B No.1 (See page 26)

④ : Engine Room R/B No.2 (See page 27)

Engine Room J/B (See Page 22)

Fuse		System	Page
7.5A	ALT-S	Charging	64
7.5A	AM2	Cruise Control (2ZZ-GE)	162
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		SRS	149
		Starting and Ignition (1ZZ-FE)	56
		Starting and Ignition (2ZZ-GE)	60
7.5A	HEAD LVL DRL NO.1	Headlight (w/o HID)	92
		Headlight Beam Level Control	96
7.5A	ST	Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		Starting and Ignition (1ZZ-FE)	56
		Starting and Ignition (2ZZ-GE)	60
10A	EFI NO.1	Cruise Control (2ZZ-GE)	162
		Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	168
		Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	174
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
10A	EFI NO.2	Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
10A	HAZ	Turn Signal and Hazard Warning Light	114
10A	HORN	Horn	182
		Multiplex Communication System	120
		Wireless Door Lock Control	130
15A	AUTO ANTENNA	Auto Antenna	204
15A	HEAD LH LWR	Headlight (w/ HID)	88
		Headlight (w/o HID)	92
15A	HEAD RH LWR	Combination Meter	206
		Fog Light	98
		Headlight (w/ HID)	88
		Headlight (w/o HID)	92
15A	IG2	Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		Starting and Ignition (1ZZ-FE)	56
		Starting and Ignition (2ZZ-GE)	60
20A	EFI	Cruise Control (2ZZ-GE)	162
		Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	168
		Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	174
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
20A	HEAD RH UPR	Headlight (w/ HID)	88
		Multiplex Communication System	120

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

Fuse		System	Page
25A	ABS NO.2	ABS	154
30A	CDS	Radiator Fan and Condenser Fan	212
30A	RDI	Radiator Fan and Condenser Fan	212
40A	MAIN	Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		Headlight (w/o HID)	92
		Multiplex Communication System	120
		Starting and Ignition (1ZZ-FE)	56
		Starting and Ignition (2ZZ-GE)	60
50A	ABS NO.1	ABS	154
50A	HTR	Air Conditioning	214
120A	ALT	Charging	64
		Illumination	104
		Light Reminder	116
		Multiplex Communication System	120
		Taillight	100

Instrument Panel J/B (See Page 24)

Fuse		System	Page
5A	ABS-IG	ABS	154
5A	BK/UP LP	Back-Up Light	110
		Clock (CANADA)	186
		Combination Meter	206
		Cruise Control (1ZZ-FE)	158
		Cruise Control (2ZZ-GE)	162
		Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	168
		Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	174
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
5A	BODY ECU-IG	Door Lock Control	134
		Electric Tension Reducer	144
		Headlight (w/ HID)	88
		Headlight (w/o HID)	92
		Interior Light	108
		Key Reminder and Seat Belt Warning	146
		Light Reminder	116
		Moon Roof	142
		Multiplex Communication System	120
		Power Window	138
		Wireless Door Lock Control	130
5A	DEF RLY	Multiplex Communication System	120
		Power Window	138
		Rear Window Defogger	196

* 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
5A	ECU-IG	Cruise Control (1ZZ-FE)	158
		Cruise Control (2ZZ-GE)	162
5A	FAN RLY	Radiator Fan and Condenser Fan	212
5A	TENS RDC	Auto Antenna	204
		Clock (CANADA)	186
		Electric Tension Reducer	144
		Moon Roof	142
		Multiplex Communication System	120
		Shift Lock	180
5A	WARNING	ABS	154
		Air Conditioning	214
		Charging	64
		Clock (CANADA)	186
		Combination Meter	206
		Cruise Control (1ZZ-FE)	158
		Cruise Control (2ZZ-GE)	162
		Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	168
		Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	174
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		Key Reminder and Seat Belt Warning	146
		Multiplex Communication System	120
7.5A	DOME	Cigarette Lighter and Clock (USA)	184
		Clock (CANADA)	186
		Interior Light	108
		Key Reminder and Seat Belt Warning	146
		Multiplex Communication System	120
7.5A	ECU-ACC	Audio System (Built-in Type Amplifier)	202
		Audio System (Separate Type Amplifier)	198
		Auto Antenna	204
		Cigarette Lighter and Clock (USA)	184
		Clock (CANADA)	186
		Door Lock Control	134
		Electric Tension Reducer	144
		Interior Light	108
		Key Reminder and Seat Belt Warning	146
		Light Reminder	116
		Moon Roof	142
		Multiplex Communication System	120
		Power Window	138
		Remote Control Mirror	188
		Wireless Door Lock Control	130
7.5A	ECU-B	Air Conditioning	214
		Clock (CANADA)	186

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

Fuse		System	Page
7.5A	ECU-B	Combination Meter	206
		Interior Light	108
		Multiplex Communication System	120
7.5A	MPX-B	Door Lock Control	134
		Electric Tension Reducer	144
		Headlight (w/ HID)	88
		Headlight (w/o HID)	92
		Interior Light	108
		Key Reminder and Seat Belt Warning	146
		Light Reminder	116
		Moon Roof	142
		Multiplex Communication System	120
		Power Window	138
		Wireless Door Lock Control	130
7.5A	OBD	Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
7.5A	PANEL 1	Illumination	104
7.5A	PANEL 2	Combination Meter	206
		Illumination	104
7.5A	SRS-IG	SRS	149
7.5A	TURN	Turn Signal and Hazard Warning Light	114
10A	HTR	Air Conditioning	214
		Rear Window Defogger	196
10A	STOP	ABS	154
		Cruise Control (1ZZ-FE)	158
		Cruise Control (2ZZ-GE)	162
		Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	168
		Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	174
		Engine Control (1ZZ-FE)	66
		Engine Control (2ZZ-GE)	76
		Shift Lock	180
		Stop Light	112
10A	TAIL	Taillight	100
15A	CIG	Cigarette Lighter and Clock (USA)	184
15A	FR FOG	Fog Light	98
15A	RADIO	Audio System (Built-in Type Amplifier)	202
		Audio System (Separate Type Amplifier)	198
15A	RR WIPER	Rear Wiper and Washer	194
15A	S/ROOF	Moon Roof	142
15A	WASHER	Front Wiper and Washer	190
		Rear Wiper and Washer	194
20A	DOOR	Door Lock Control	134
		Electric Tension Reducer	144

* 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
20A	DOOR	Interior Light	108
		Key Reminder and Seat Belt Warning	146
		Light Reminder	116
		Moon Roof	142
		Multiplex Communication System	120
		Power Window	138
		Wireless Door Lock Control	130
20A	FL P/W	Multiplex Communication System	120
		Power Window	138
20A	FR P/W	Multiplex Communication System	120
		Power Window	138
25A	WIPER	Front Wiper and Washer	190
30A	DEF	Multiplex Communication System	120
		Rear Window Defogger	196

Engine Room R/B No.1 (See Page 26)

Fuse		System	Page
10A	ETCS	Cruise Control (2ZZ-GE)	162
		Engine Control (2ZZ-GE)	76
50A	A-AMP	Engine Control (2ZZ-GE)	76

Engine Room R/B No.2 (See Page 27)

Fuse		System	Page
10A	HEAD LH UPR	Headlight (w/ HID)	88
		Headlight (w/o HID)	92
10A	HEAD RH UPR	Headlight (w/ HID)	88
		Headlight (w/o HID)	92

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

K CONNECTOR LIST

A 1
Black



A 2
Gray



A 3
Gray



A 6
Gray



A 7
Black



A 8



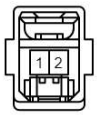
A 9



A12
Yellow



A13
Yellow



A14
Black



A15



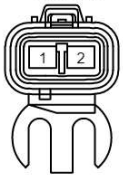
A16



A17
Gray



A18
Dark Gray



A19
Dark Gray



A20
Black



A21



A22
Black



B 1
Gray



B 2
Gray



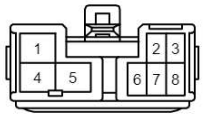
B 3
Black



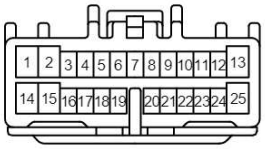
B 4
Black



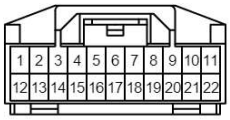
B 5



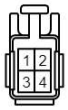
B 6



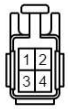
B 7



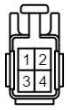
B 8



B 9



B10
Black



C 1
Black



C 2
Black



C 3
Black



C 4
(1ZZ-FE) Gray



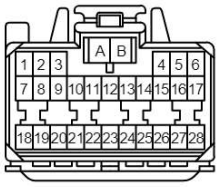
C 4
(2ZZ-GE) Black



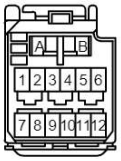
C 5
Black



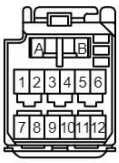
C 6
Yellow



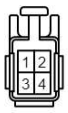
C 7
Yellow



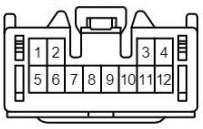
C 8
Yellow



C 9



C10
(Canada) Blue



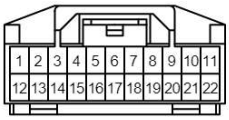
C10
(USA)



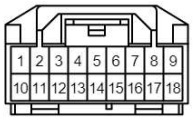
C11



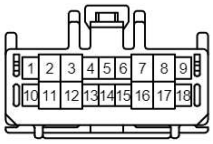
C12



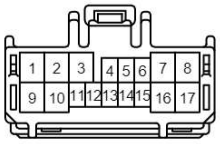
C13
Blue



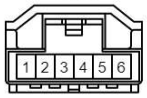
C14
Black



C15



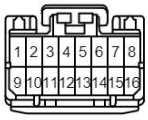
C16
Black



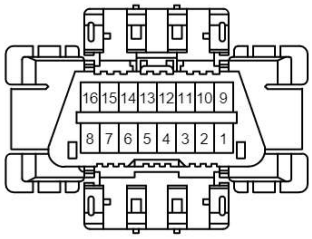
C17



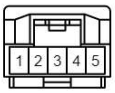
C18



D 1



D 2



D 3



D 4



K CONNECTOR LIST

D 5
Black



D 6
Black



D 7
Yellow



D 8
Yellow



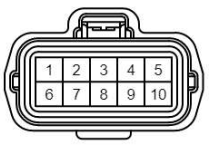
D 9
Gray



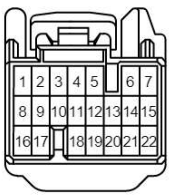
D10
Black



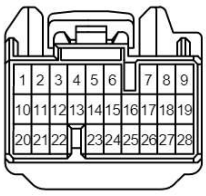
E 1
Gray



E 2



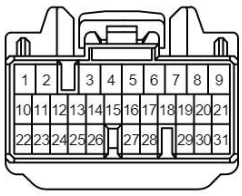
E 3
Black



E 4



E 5



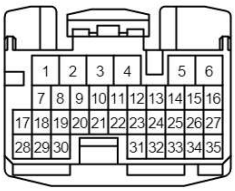
E 6
Gray



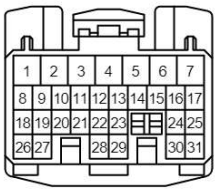
E 7
Gray



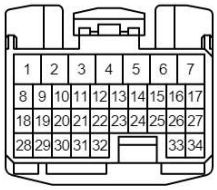
E 8



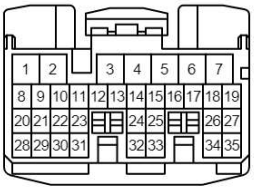
E 9



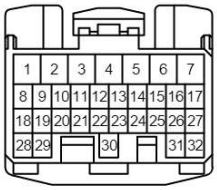
E10



E11



E12



F 1
Yellow



F 2
Yellow



F 3
Black



F 4



F 5
Black



F 6
Black



F 7



F 8



F 9
Gray



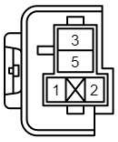
F10
Gray



F11
Black



F12



F13



F14



F15
(6 Speaker)



F15
(8 Speaker)



F16
(6 Speaker)



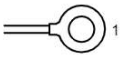
F16
(8 Speaker)



F17



G 1



G 2
Black



G 3
Black



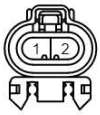
H 1
Black



H 2



H 3
Black



H 4



H 5
Black



H 6
Black



H 7
Black



H 8



H 9
Gray



H10



H11
Black



K CONNECTOR LIST

H12
Black



H13
Gray



H14
Gray



H15



I 1
Gray



I 2
Black



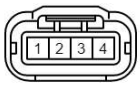
I 3
Black



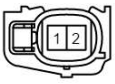
I 4
Black



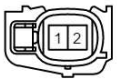
I 5
Black



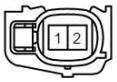
I 6
Black



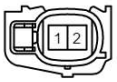
I 7
Gray



I 8
Black



I 9
Gray



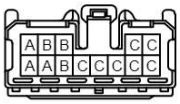
I10



J 1
Blue



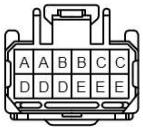
J 2



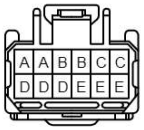
J 3



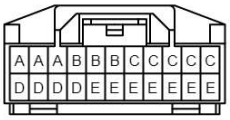
J 4
Black



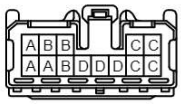
J 5
Black



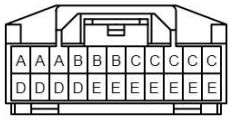
J 6



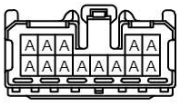
J 7
Blue



J 8



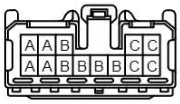
J 9
Black



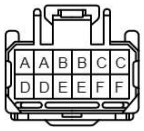
J10



J11



J12



J13



J14



K 1
(1ZZ-FE) Dark Gray



K 1
(2ZZ-GE) Black



L 1



L 2



L 3



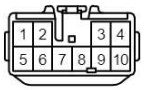
L 4



M 1
Black



M 2
Black



M 3



N 1
Black



N 2



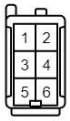
O 1
Black



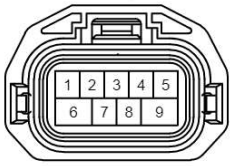
O 2
Gray



O 3



P 1
Gray



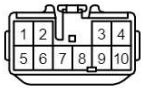
P 2
Black



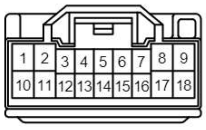
P 3
Black



P 4
Blue



P 5



P 6



P 7



P 8



P 9
Yellow



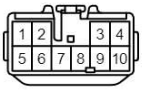
P10
Yellow



R 1
Gray



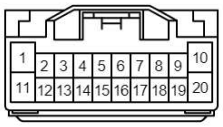
R 2
Blue



R 3
Blue



R 4

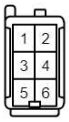


R 5

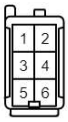


K CONNECTOR LIST

R 6



R 7



R 8



R 9



R10
Black



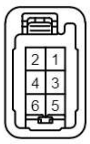
R11
Black



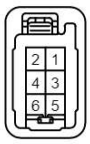
R12
Black



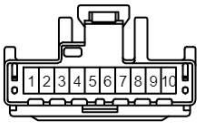
R13



R14



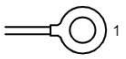
R15



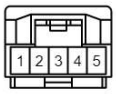
S 1
Black



S 2



S 3



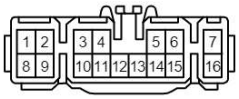
S 4
Yellow



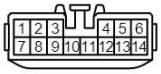
S 5
Yellow



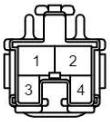
S 6



S 7



S 8



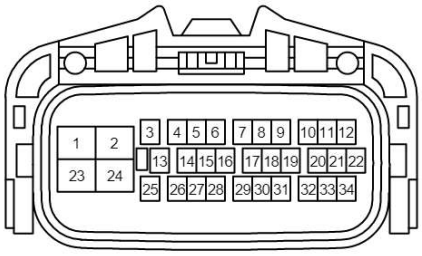
S 9
Yellow



S10
Yellow



S11
Black



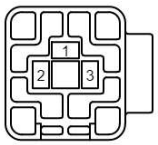
T 1
(1ZZ-FE) Black



T 1
(2ZZ-GE) Black



T 2



T 3



T 4



U 1



V 1
Black



V 2
Black



V 3
Blue



V 4
Black



V 5
Black



V 6
Black



V 7
Blue



V 8
Blue



W 1
Black



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Condenser Fan Motor	90980-11410
A 2	A/C Lock Sensor	90980-11016
	A/C Magnetic Clutch	
A 3	Pressure SW	90980-10943
A 6	ABS Speed Sensor Front LH	90980-11003
A 7	ABS Speed Sensor Front RH	
A 8	A/C Evaporator Temp. Sensor	90980-11918
A 9	A/C SW	90980-11923
A12	Airbag Squib (Front Passenger Airbag Assembly)	90980-11884
A13	Airbag Squib (Steering Wheel Pad)	
A14	Automatic Light Control Sensor	90980-11107
A15	ABS Speed Sensor Rear LH	90980-11060
A16	ABS Speed Sensor Rear RH	
A17	Accelerator Pedal Position Sensor	90980-11144
A18	Air Pump Motor	82824-20160
A19	Air Pump Relay	90980-11288
A20	Ambient Temp. Sensor	90980-11070
A21	Auto Antenna Control Relay	90980-10797
A22	Air Pump Pressure Sensor	90980-10845
B 1	Back-Up Light SW	90980-11051
B 2	Brake Fluid Level Warning SW	90980-11207
B 3	Blower Motor	90980-10214
B 4	Blower Resistor	90980-11136
B 5	Blower SW	90980-10877
B 6	Body ECU	90980-11877
B 7	Body ECU	90980-11915
B 8	Buckle SW LH	90980-10795
B 9	Buckle SW RH	
B10	Back Door Lock Motor	
C 1	Camshaft Position Sensor	90980-10947
C 2	Camshaft Timing Oil Control Valve (VVL)	90980-11162
C 3	Camshaft Timing Oil Control Valve (VVT)	
C 4	Crankshaft Position Sensor	90980-10947
C 5	Cruise Control Actuator	90980-11150
C 6	Center Airbag Sensor Assembly	90980-11872
C 7	Center Airbag Sensor Assembly	90980-11869
C 8	Center Airbag Sensor Assembly	90980-11867
C 9	Cigarette Lighter	90980-10795
C10	Clock (Canada)	90980-11475
	Clock (USA)	90980-10789
C11	Clutch Start SW	90980-10825
C12	Combination Meter	90980-11915
C13	Combination Meter	90980-11913
C14	Combination SW	90980-11594
C15	Combination SW	90980-11672
C16	Combination SW	90980-11986

Code	Part Name	Part Number
C17	Cruise Control Clutch SW	90980-10906
C18	Cruise Control ECU	90980-11391
D 1	Data Link Connector 3	90980-11665
D 2	Door Control Receiver	90980-11909
D 3	Door Courtesy SW LH	90980-10871
D 4	Door Courtesy SW RH	
D 5	Door Key Lock and Unlock SW LH	90980-11858
	Door Lock Detection SW LH	
	Door Lock Motor LH	
D 6	Door Key Lock and Unlock SW RH	
	Door Lock Detection SW RH	
	Door Lock Motor RH	
D 7	Door Side Airbag Sensor LH	90980-11856
D 8	Door Side Airbag Sensor RH	
D 9	Daytime Running Light Resistor	90980-10928
D10	Diode (Rear Wiper)	90980-10962
E 1	Electronically Controlled Transmission Solenoid	90980-11658
E 2	Engine Control Module	90980-11638
E 3	Engine Control Module	90980-11637
E 4	Engine Control Module	90980-11476
E 5	Engine Control Module	90980-11421
E 6	Engine Coolant Temp. Sensor	90980-11062
E 7	Oil Pressure SW (VVTL)	90980-11363
E 8	Engine Control Module	90980-12146
E 9	Engine Control Module	90980-12142
E10	Engine Control Module	90980-12144
E11	Engine Control Module	90980-12145
E12	Engine Control Module	90980-12143
F 1	Front Airbag Sensor LH	90980-11898
F 2	Front Airbag Sensor RH	
F 3	Front Fog Light LH	90980-11003
F 4	Front Fog Light RH	
F 5	Front Parking Light LH	90980-11156
F 6	Front Parking Light RH	
F 7	Front Side Marker Light LH	90980-11162
F 8	Front Side Marker Light RH	
F 9	Front Turn Signal Light LH	90980-11019
F10	Front Turn Signal Light RH	
F11	Front Wiper Motor	90980-11599
F12	Front Fog Light Relay	82660-20340
F13	Front Door Speaker LH	90980-10935
F14	Front Door Speaker RH	
F15	Front Door Tweeter Speaker LH (6 Speaker)	90980-10915
	Front Door Tweeter Speaker LH (8 Speaker)	90980-10794

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

Code	Part Name	Part Number
F16	Front Door Tweeter Speaker RH (6 Speaker)	90980-10915
	Front Door Tweeter Speaker RH (8 Speaker)	90980-10794
F17	Fuel Pump	90980-11077
	Fuel Sender	
G 1	Generator	90980-09212
G 2	Generator	90980-11349
G 3	Glove Box Light and SW	90980-11098
H 1	Headlight LH (High)	90980-11659
H 2	Headlight LH (Low)	90980-10481
H 3	Headlight RH (High)	90980-11659
H 4	Headlight RH (Low)	90980-10481
H 5	Horn (High)	90980-10619
H 6	Horn (Low)	
H 7	Hazard SW	90980-10801
H 8	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869
H 9	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028
H10	High Mounted Stop Light	90980-10859
H11	Headlight Beam Level Control Actuator LH	90980-11016
H12	Headlight Beam Level Control Actuator RH	
H13	Headlight Assembly LH	90980-10869
H14	Headlight Assembly RH	
H15	Headlight Beam Level Control SW	90980-10797
I 1	Idle Air Control Valve	90980-11145
I 2	Ignition Coil and Igniter No.1	90980-11885
I 3	Ignition Coil and Igniter No.2	
I 4	Ignition Coil and Igniter No.3	
I 5	Ignition Coil and Igniter No.4	
I 6	Injector No.1	90980-11875
I 7	Injector No.2	
I 8	Injector No.3	
I 9	Injector No.4	
I10	Ignition SW	90980-11778
J 1	Junction Connector	90980-10803
J 2	Junction Connector	90980-11542
J 3	Junction Connector	90980-11686
J 4	Junction Connector	90980-11661
J 5	Junction Connector	
J 6	Junction Connector	90980-11915
J 7	Junction Connector	90980-11542
J 8	Junction Connector	90980-11915
J 9	Junction Connector	90980-11542
J10	Junction Connector	90980-11686
J11	Junction Connector	90980-11542
J12	Junction Connector	90980-11661
J13	Junction Connector	

Code	Part Name	Part Number
J14	Junction Connector	90980-11686
K 1	Knock Sensor (Bank 1) (1ZZ-FE)	90980-11166
	Knock Sensor (Bank 1) (2ZZ-GE)	90980-11875
L 1	License Plate Light LH	90980-11148
L 2	License Plate Light RH	
L 3	Luggage Compartment Light	90980-10121
L 4	Luggage Compartment Light SW	90980-10871
M 1	Mass Air Flow Meter	90980-11317
M 2	Moon Roof Control Relay and Motor	90980-10997
M 3	Moon Roof Control SW	90980-11533
	Personal Light	
N 1	Noise Filter (Ignition System)	90980-11156
N 2	Noise Filter (Rear Window Defogger)	90980-10825
O 1	O/D Direct Clutch Speed Sensor	90980-11156
O 2	Oil Pressure SW	90980-11363
O 3	O/D Main SW	90980-11011
P 1	Park/Neutral Position SW	90980-11784
P 2	Power Steering Oil Pressure SW	90980-11428
P 3	Parking Brake SW	90980-10871
P 4	Power Window Lock SW	90980-10997
P 5	Power Window Master SW	90980-11973
P 6	Personal Light	90980-11148
P 7	Power Window Motor LH	90980-10860
P 8	Power Window Motor RH	
P 9	Pretensioner LH	90980-11862
P10	Pretensioner RH	
R 1	Radiator Fan Motor	90980-10928
R 2	Radio and Player	90980-10997
R 3	Radio and Player	90980-10996
R 4	Radio and Player	90980-12038
R 5	Rheostat	90980-10908
R 6	Rear Combination Light LH	90980-11011
R 7	Rear Combination Light RH	
R 8	Rear Speaker LH	90980-10935
R 9	Rear Speaker RH	
R10	Rear Window Defogger	90980-10913
R11	Rear Window Defogger	90980-10914
R12	Rear Wiper Motor and Relay	90980-10908
R13	Remote Control Mirror LH	90980-11587
R14	Remote Control Mirror RH	
R15	Remote Control Mirror SW	90980-11657
S 1	Starter	90980-11400
S 2	Starter	90980-09506
S 3	Shift Lock Control ECU	90980-11909
S 4	Side Airbag Squib LH	90980-11864
S 5	Side Airbag Squib RH	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
S 6	Stereo Component Amplifier	90980-10848
S 7	Stereo Component Amplifier	90980-10807
S 8	Stop Light SW	90980-11118
S 9	Side Airbag Sensor LH	90980-11857
S10	Side Airbag Sensor RH	
S11	Skid Control ECU with Actuator	90980-12020
T 1	Throttle Position Sensor (1ZZ-FE)	90980-11261
	Throttle Position Sensor (2ZZ-GE)	90980-11858
T 2	Turn Signal Flasher Relay	82751-07010
T 3	Tension Reducer Solenoid LH	90980-11369
T 4	Tension Reducer Solenoid RH	
U 1	Unlock Warning SW	90980-10860
V 1	Vehicle Speed Sensor (Combination Meter)	90980-11143
V 2	Vehicle Speed Sensor (Electronically Controlled Transmission)	90980-11156
V 3	VSV (ACIS)	
V 4	VSV (Canister Closed Valve)	90980-11162
V 5	VSV (EVAP)	90980-11156
V 6	Vapor Pressure Sensor	90980-11143
V 7	VSV (Pressure Switching Valve)	90980-11859
V 8	VSV (Air Pump)	90980-11156
W 1	Washer Motor	90980-10981

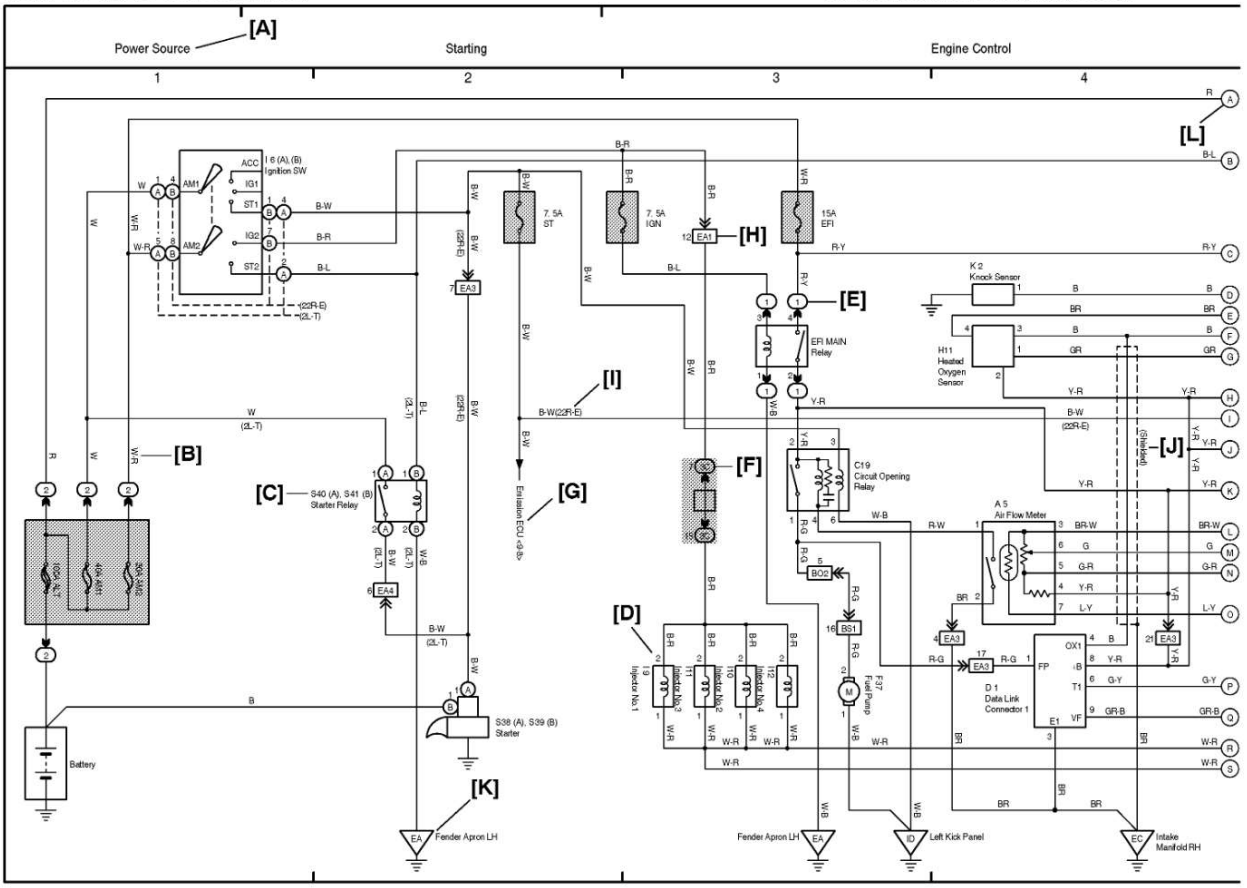
Code	Part Name	Part Number

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

HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



[A] : System Title

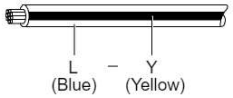
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

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

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

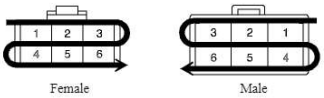
Example: L - Y



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

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

Example : Numbered in order from upper left to lower right / Numbered in order from upper right to lower left



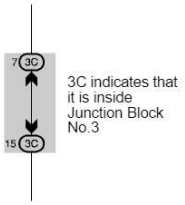
The numbering system for the overall wiring diagram is the same as above

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

Example : (1) Indicates Relay Block No.1

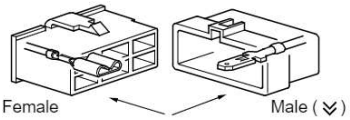
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

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



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

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

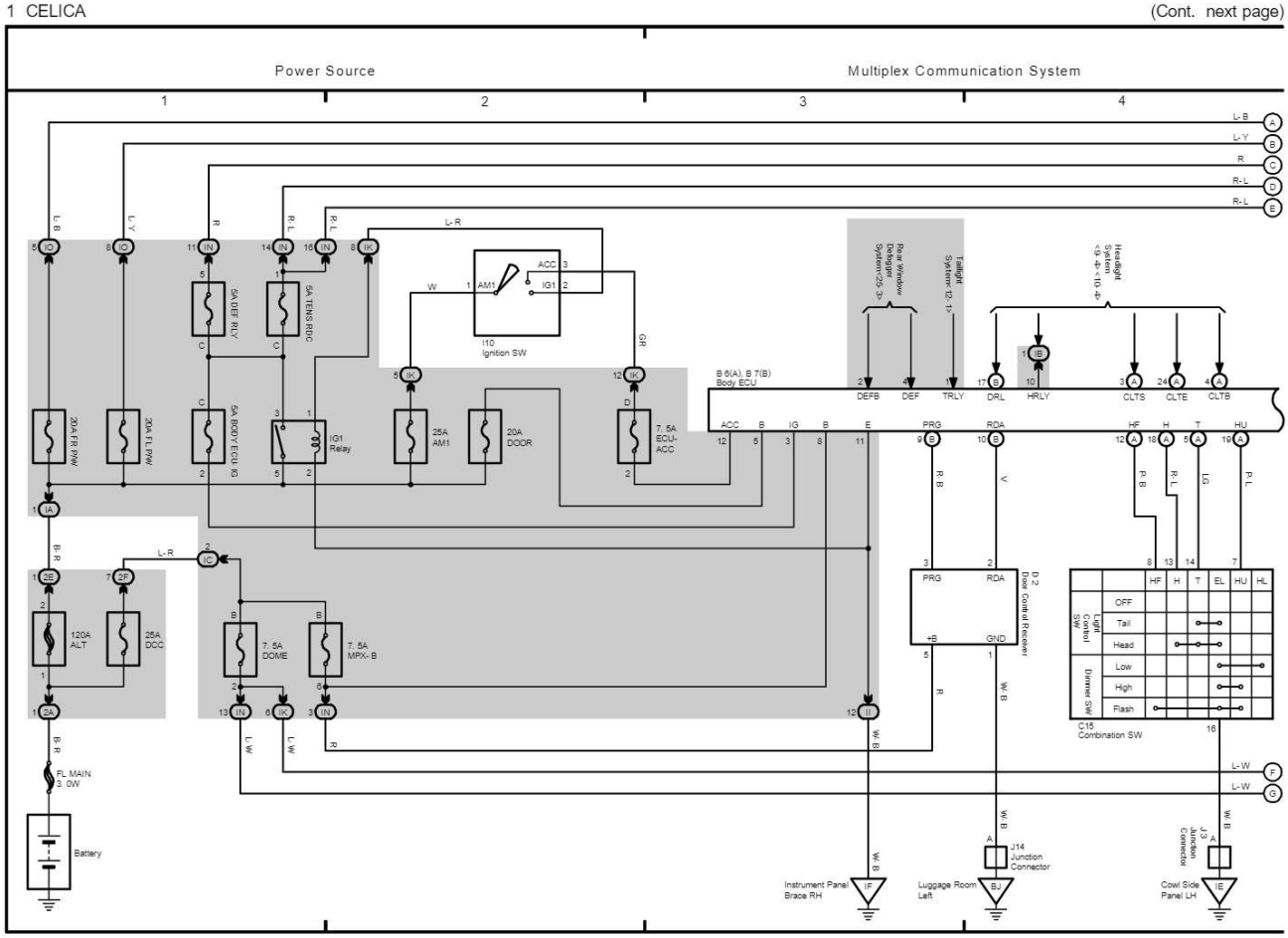
[L] : The same code occuring on the next page indicates that the wire harness is continuous.

SYSTEM INDEX

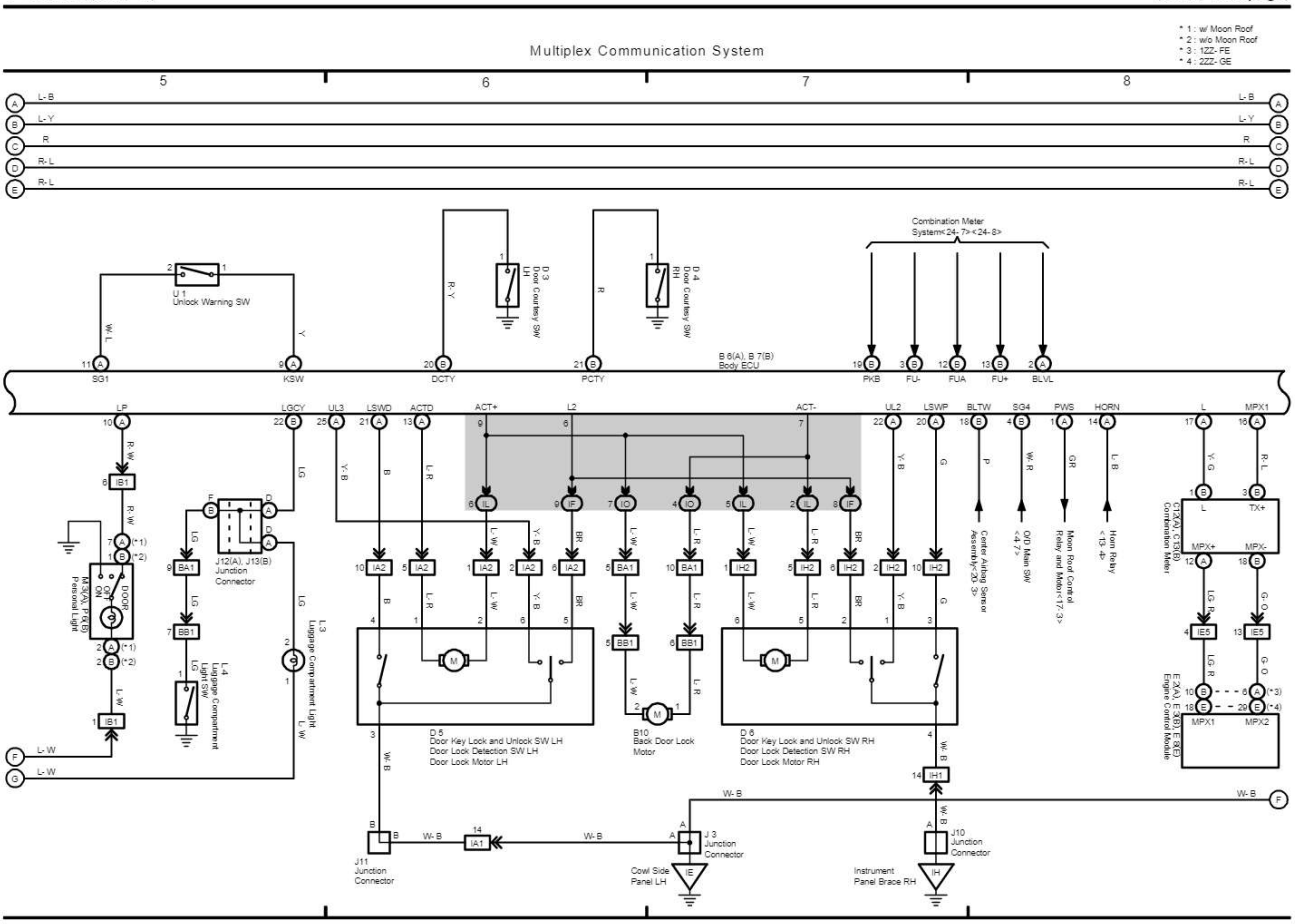
SYSTEMS	LOCATION
ABS	19-2
Air Conditioning	26-2
Audio System (Built-in Type Amplifier)	21-3
Audio System (Separate Type Amplifier)	22-2
Auto Antenna	23-3
Back-Up Light	13-2
Charging	8-2
Cigarette Lighter	21-2
Clock (Canada)	23-4
Clock (USA)	21-2
Combination Meter	24-2
Cruise Control (1ZZ-FE)	18-2
Cruise Control (2ZZ-GE)	2-15
Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)	5-2
Electronically Controlled Transmission and A/T Indicator (2ZZ-GE)	4-2
Engine Control (1ZZ-FE)	3-3
Engine Control (2ZZ-GE)	2-3
Fog Light	8-4
Front Wiper and Washer	16-2
Headlight Beam Level Control	11-2
Headlight (w/ HID)	9-2
Headlight (w/o HID)	10-2

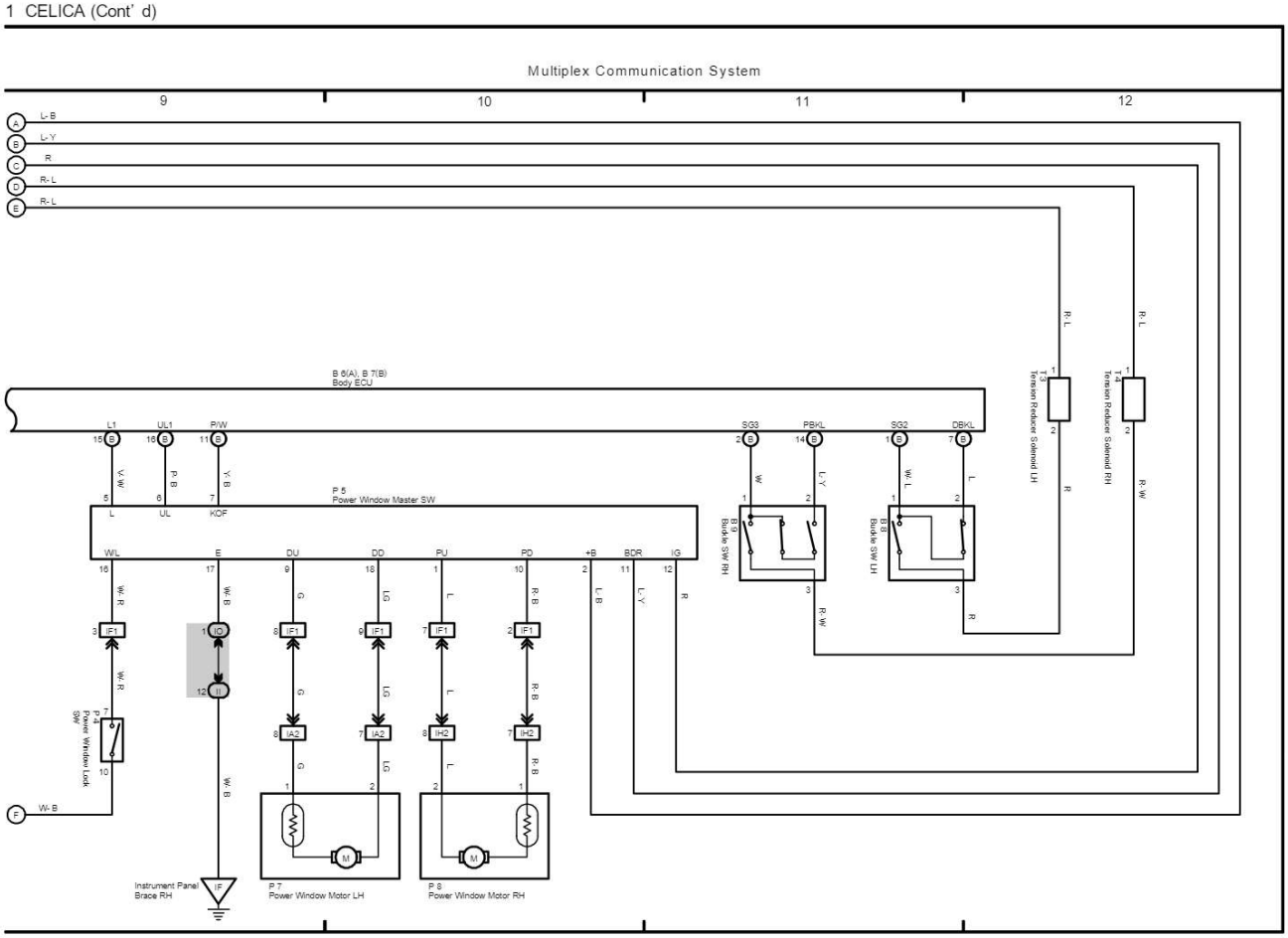
SYSTEMS	LOCATION
Horn	13-4
Ignition (1ZZ-FE)	6-3
Ignition (2ZZ-GE)	7-2
Illumination	14-2
Moon Roof	17-2
Multiplex Communication System * Door Lock Control * Electronic Tension Reducer * Interior Light * Key Reminder * Light Reminder * Power Window * Seat Belt Warning * Tension Reducer * Wireless Door Lock Control	1-3
Power Source	1~26-1
Radiator Fan and Condenser Fan	25-2
Rear Window Defogger	25-3
Rear Wiper and Washer	16-4
Remote Control Mirror	17-3
Shift Lock	15-4
SRS	20-2
Starting	6-2
Stop Light	13-3
Taillight	12-2
Turn Signal and Hazard Warning Light	15-2

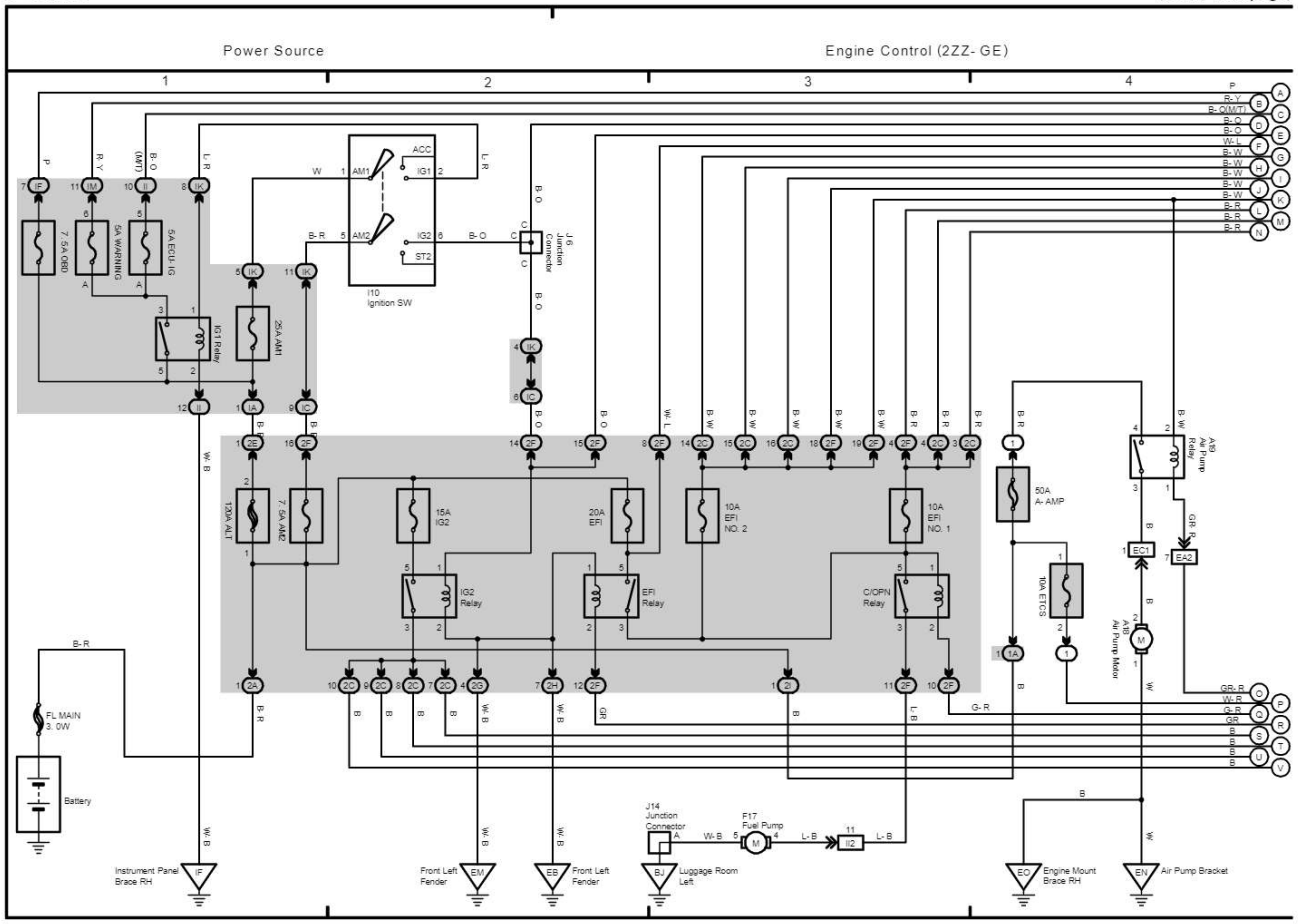
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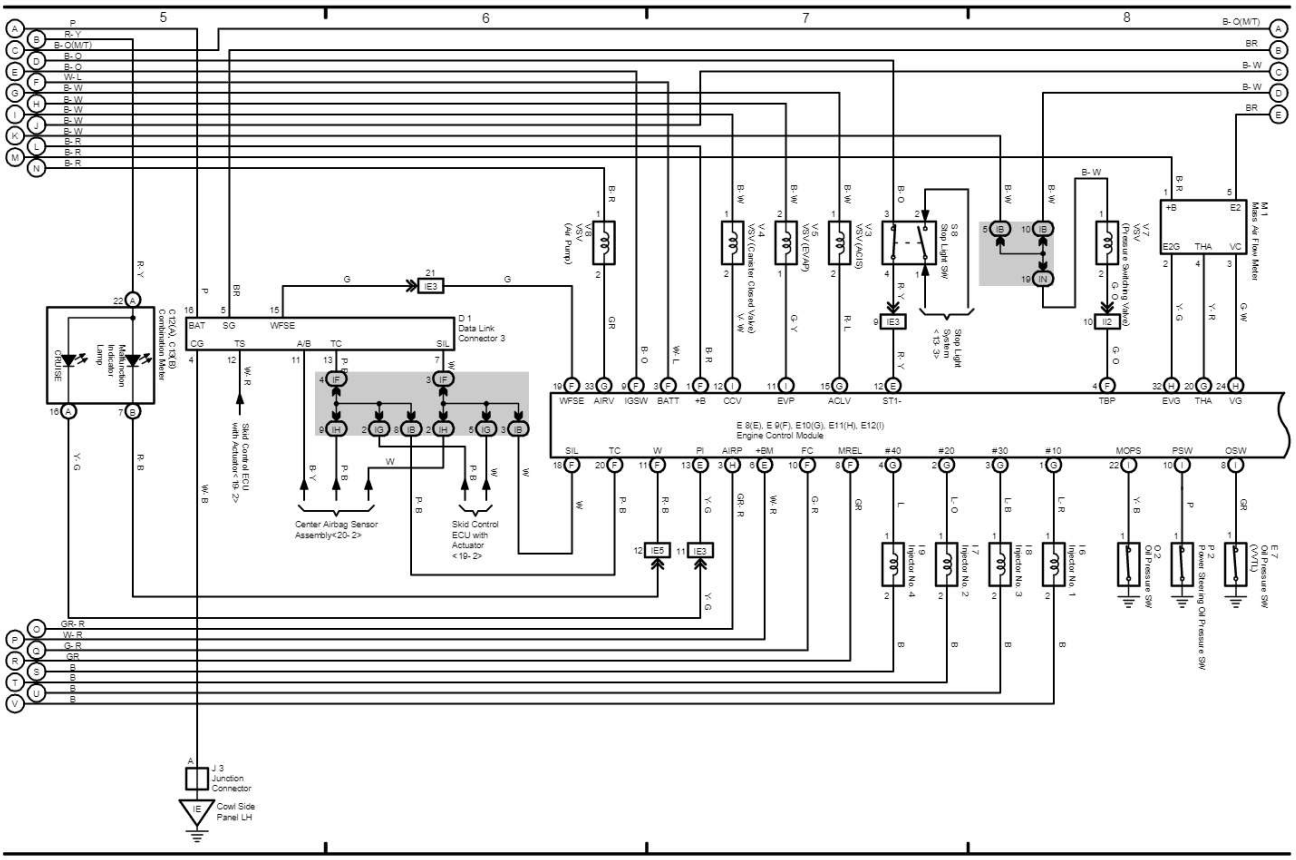
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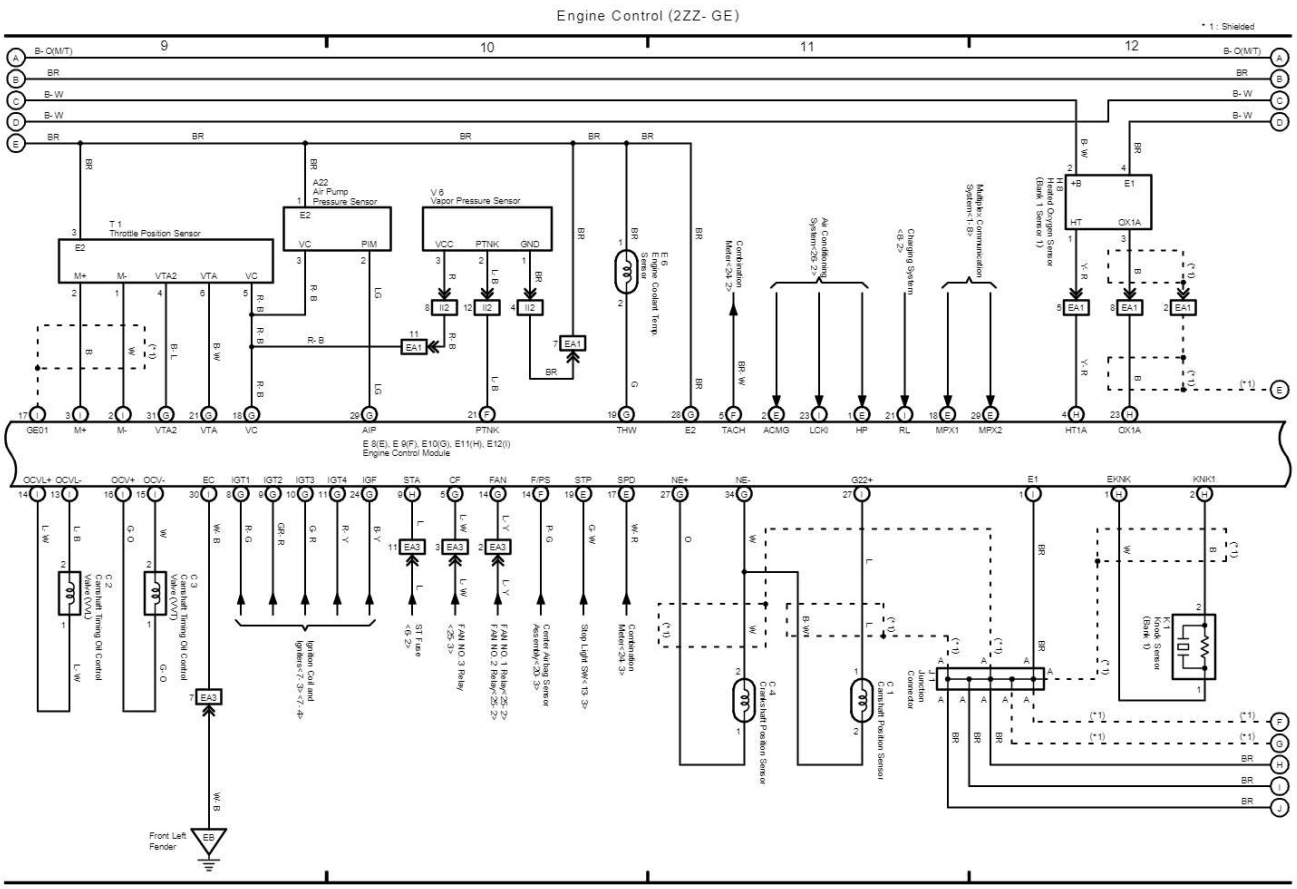


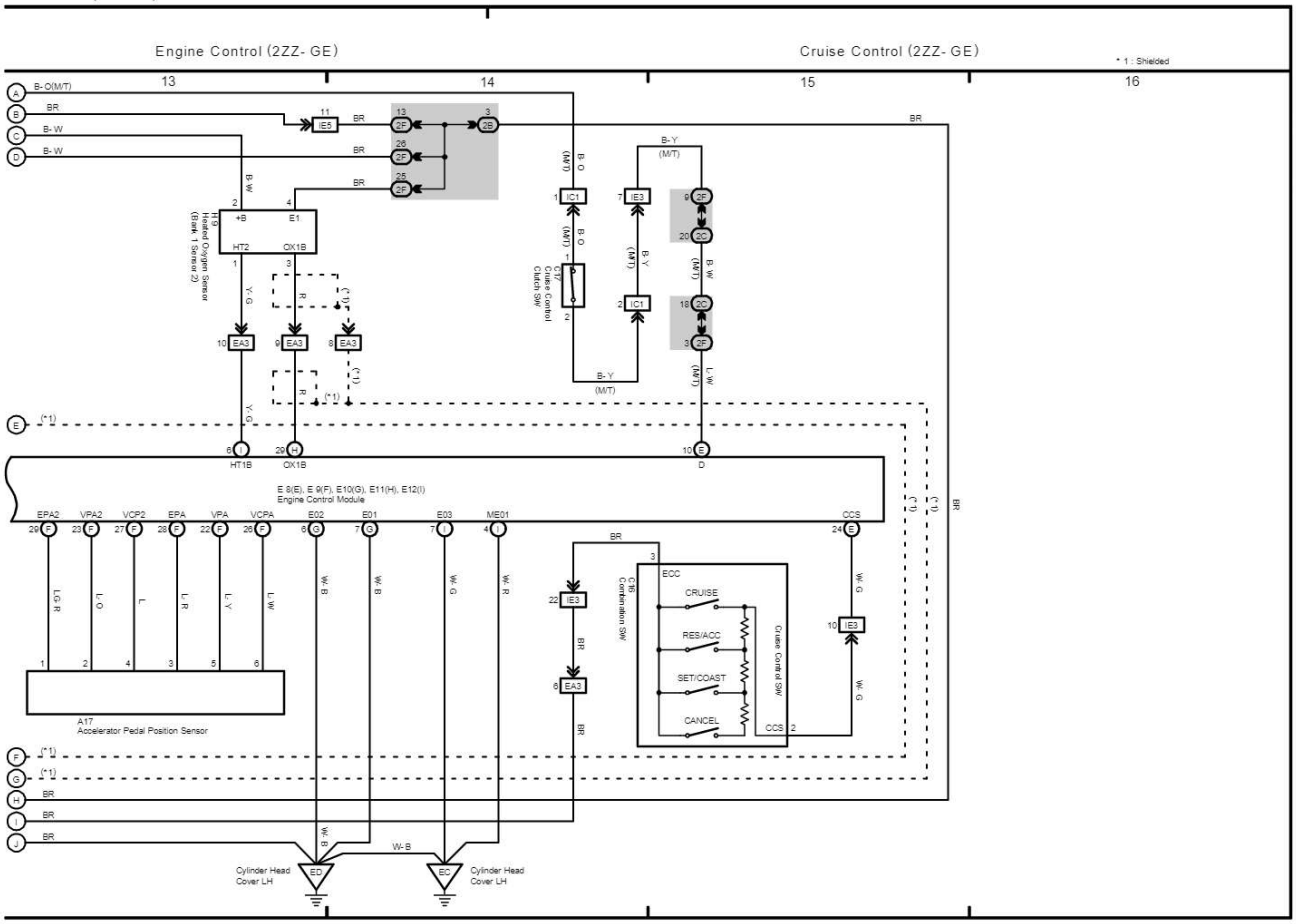

Multiplex Communication System
9
10
11
12
L-B
L-Y
R
R-L
R-L
B 6(A), B 7(B)
Body ECU
L1
UL1
P/W
SG3
PBKL
SG2
DBKL
V-W
P-B
Y-B
W
L-Y
W-L
L
P 5
Power Window Master SW
WL
E
DU
DD
PU
PD
+B
BDR
IG
W-R
W-B
G
LG
L
R-B
L-B
L-Y
R
IF1
IO
II
IA2
IH2
P 4
Power Window Lock SW
W-B
Instrument Panel Brace RH
IF
P 7
Power Window Motor LH
P 8
Power Window Motor RH
B 9
Buckle SW RH
B 10
Buckle SW LH
R-W
T 3
Tension Reducer Solenoid LH
T 4
Tension Reducer Solenoid RH


Power Source
Engine Control (2ZZ- GE)
1
2
3
4
ACC
IG1
IG2
ST2
AM1
AM2
I10
Ignition SW
J5
Junction
Connector
IG1 Relay
25A AM1
7.5A GAUGE
5A WARNING
5A ECU-IG
12A ALT
7.5A AM2
15A
IG2
IG2
Relay
20A
EFI
EFI
Relay
10A
EFI
NO. 2
10A
EFI
NO. 1
C/OPN
Relay
50A
A- AMP
10A ETCS
A/B
Air Pump
Relay
A/B
Air Pump Motor
EC1
EA2
FL MAIN
3. 0W
Battery
J14
Junction
Connector
F17
Fuel Pump
I2
Instrument Panel
Brace RH
Front Left
Fender
Front Left
Fender
Luggage Room
Left
Engine Mount
Brace RH
Air Pump Bracket

Engine Control (2ZZ- GE)

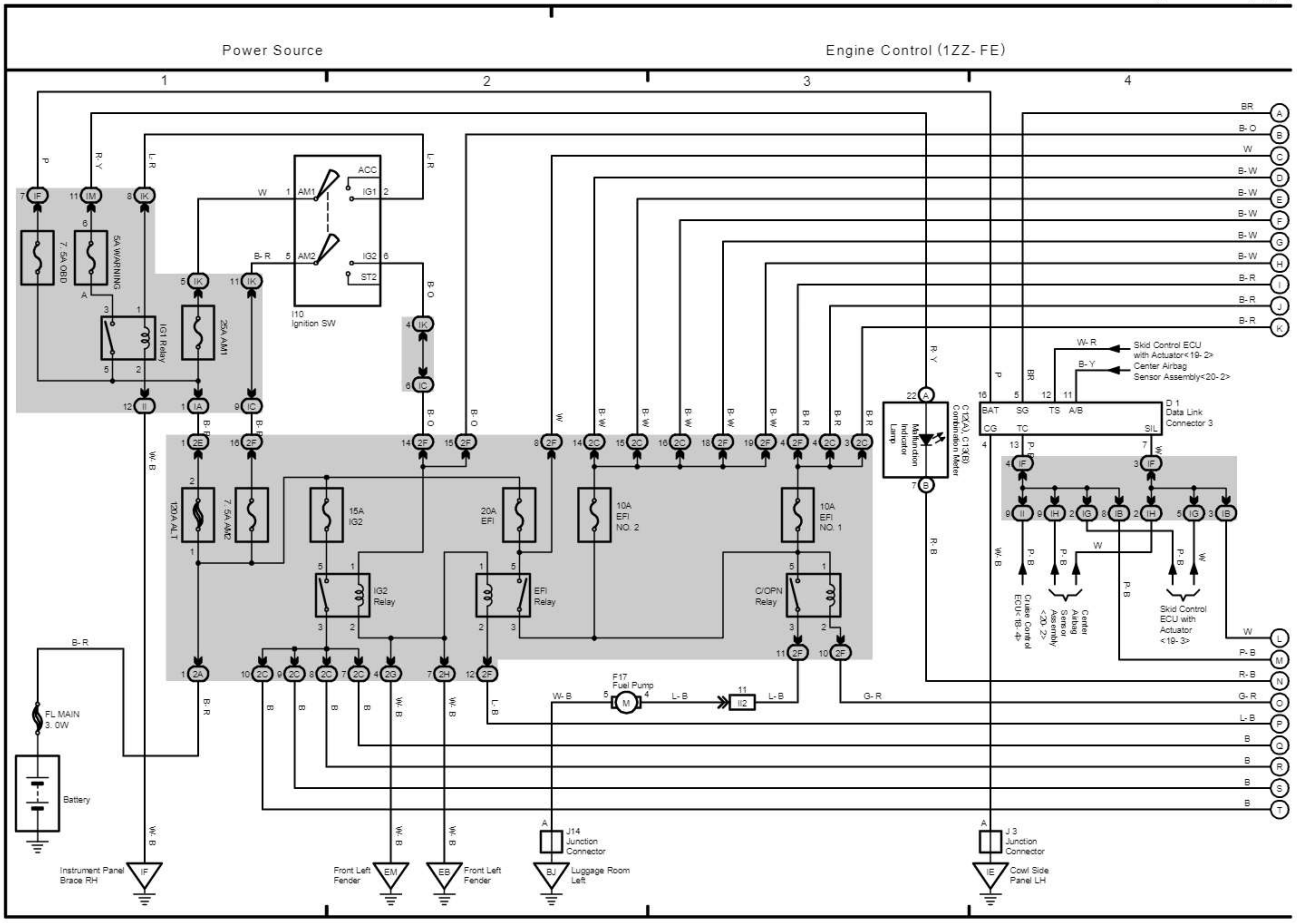


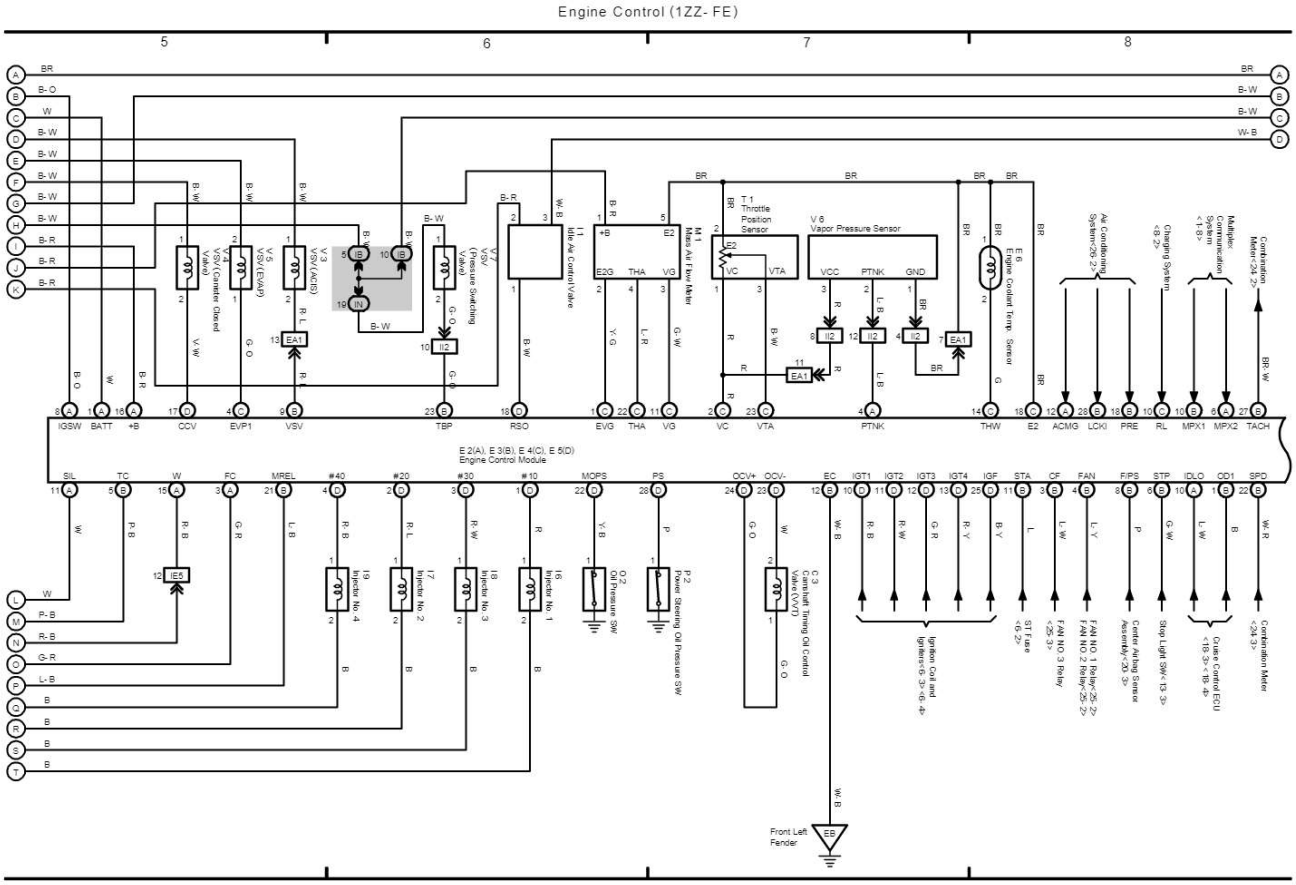

Engine Control (2ZZ- GE)
*1 : Shielded
T1 Throttle Position Sensor
A22 Air Pump Pressure Sensor
V6 Vapor Pressure Sensor
E6 Engine Coolant Temp. Sensor
Combination Meter<24-2>
Air Conditioning System<25-2>
Charging System <8-2>
Multiplex Communication System<1-8>
H3 Heated Oxygen Sensor (Bank 1 Sensor 1)
E8 Engine Control Module
C2 Camshaft Timing Oil Control Valve (VVL)
C3 Camshaft Timing Oil Control Valve (VVT)
Ignition Coil and Ignitor<7-3><7-4>
ST Fuse <6-2>
FAN NO.3 Relay <25-3>
FAN NO.1 Relay<25-2>
FAN NO.2 Relay<25-2>
Center Airbag Sensor Assembly<20-3>
Stop Light SW<13-3>
Combination Meter<24-3>
C4 Crankshaft Position Sensor
C1 Camshaft Position Sensor
Junction Connector
H2 Knock Sensor (Bank 1)
Front Left Fender

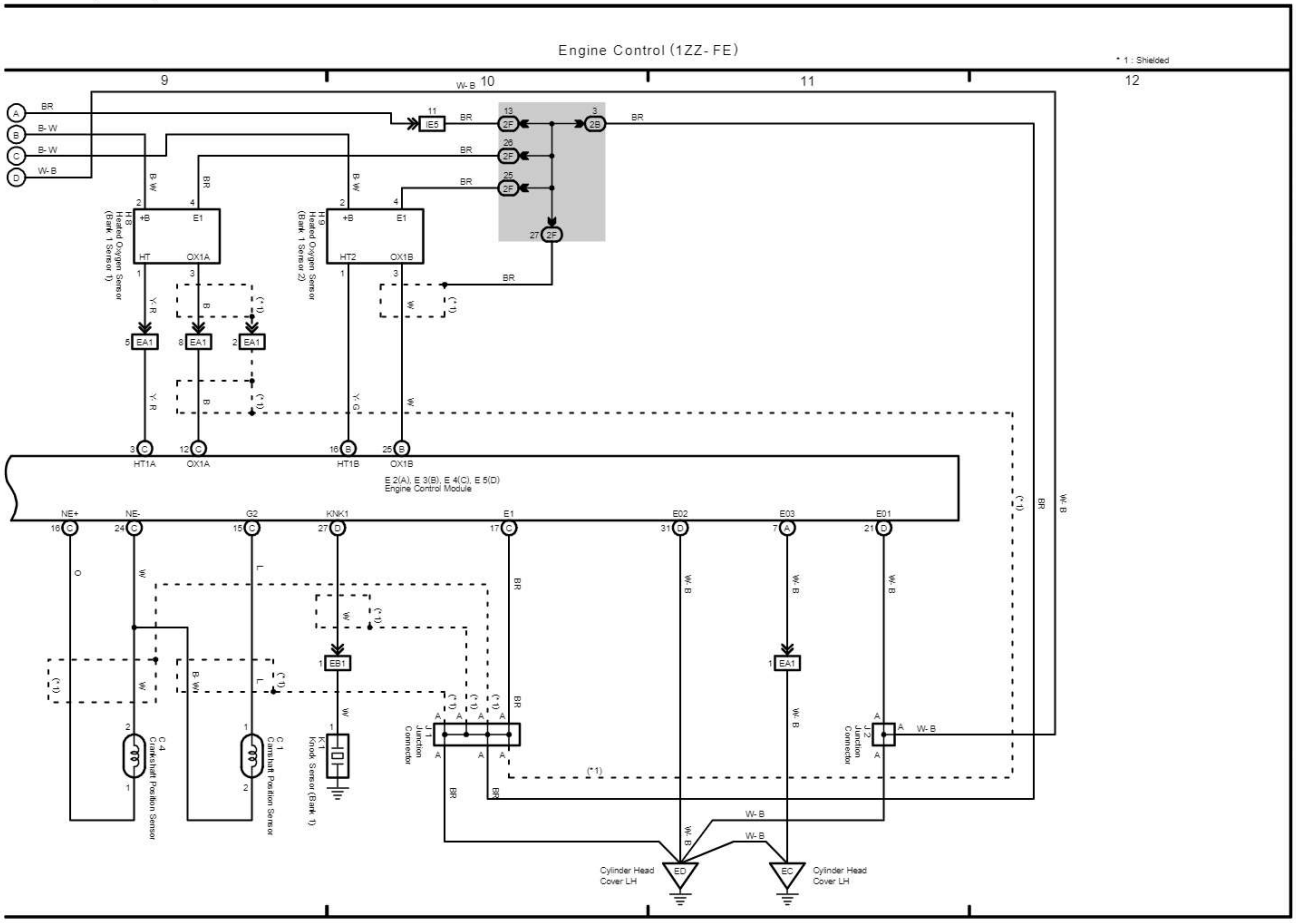

Engine Control (2ZZ- GE)
Cruise Control (2ZZ- GE)
* 1 : Shielded
13
14
15
16
Heated Oxygen Sensor (Bank 1 Sensor 2)
E 8(E), E 9(F), E10(G), E11(H), E12(I)
Engine Control Module
A17
Accelerator Pedal Position Sensor
Cruise Control Clutch SW
Cruise Control SW
Cylinder Head Cover LH
Cylinder Head Cover LH
ECC
CRUISE
RES/ACC
SET/COAST
CANCEL

MEMO

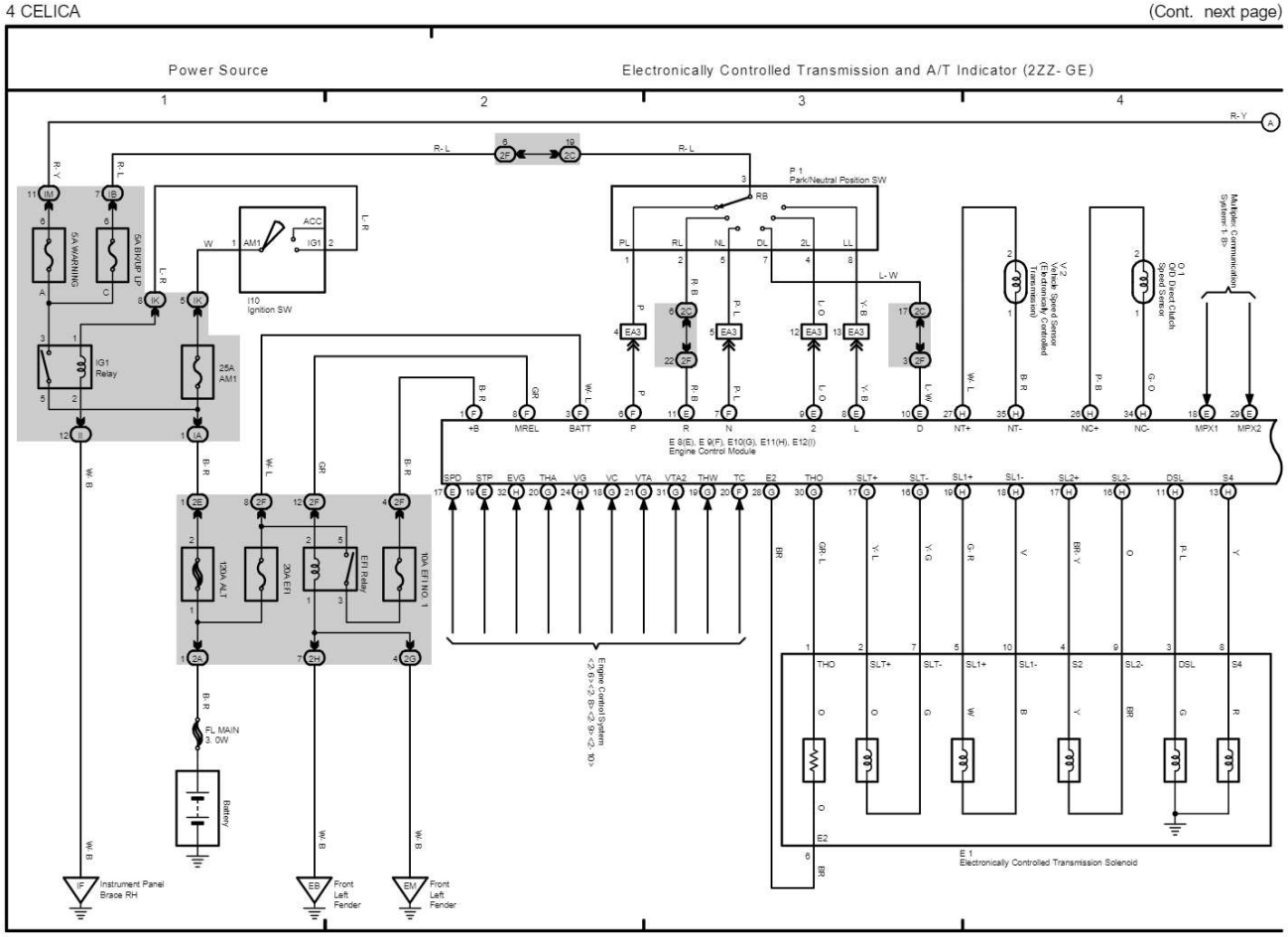
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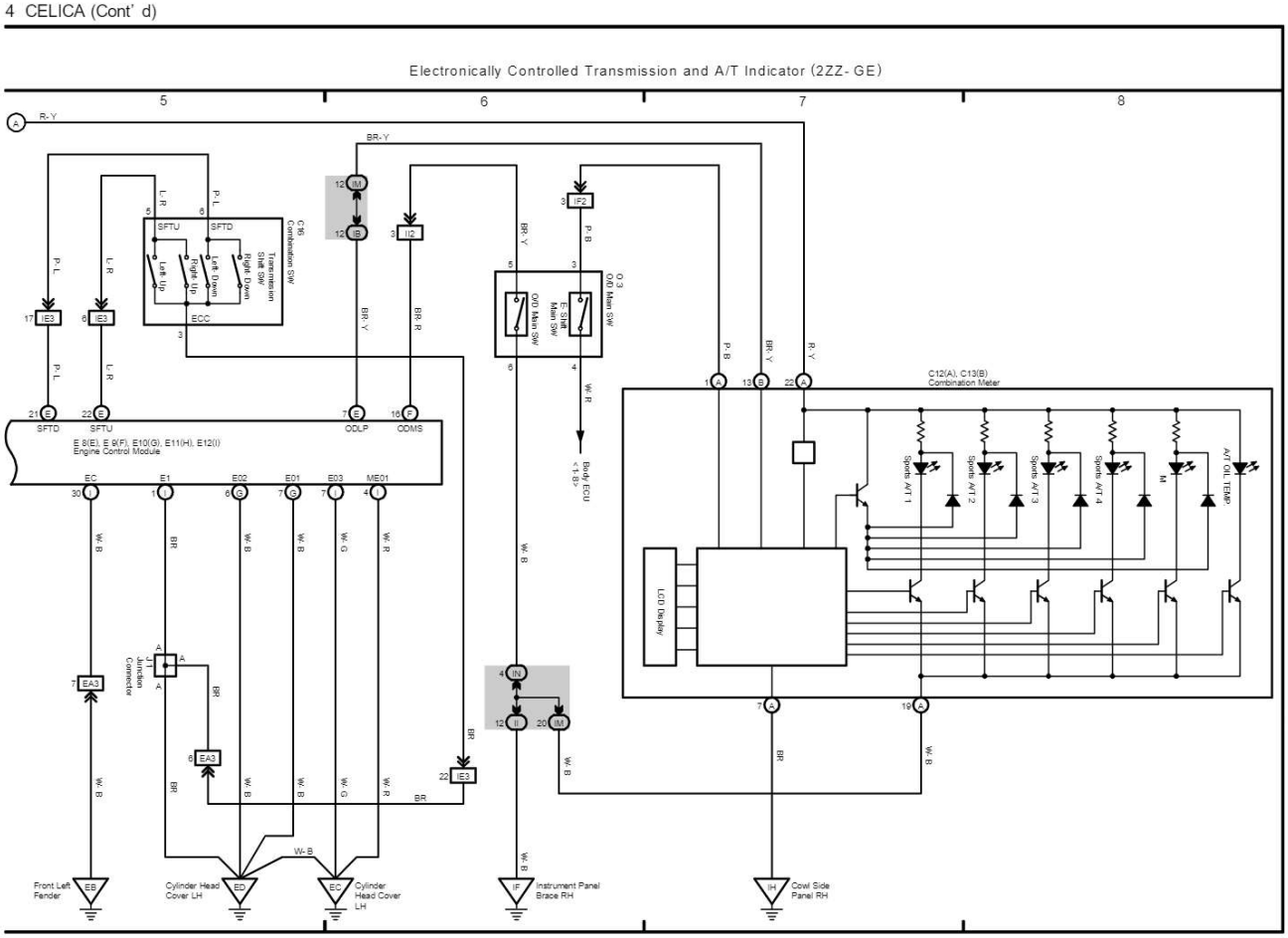



Engine Control (1ZZ- FE)
5
6
7
8
IGSW
BATT
+B
CCV
EVP1
VSV
TBP
RSO
EVG
THA
VG
VC
VTA
PTNK
THW
E2
ACMG
LCKI
PRE
RL
MPX1
MPX2
TACH
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
SIL
TC
W
FC
MREL
#40
#20
#30
#10
MOPS
PS
OCV+
OCV-
EC
IGT1
IGT2
IGT3
IGT4
IGF
STA
CR
FAN
F/PS
STP
IDLO
OD1
SPD
T 1
Throttle Position Sensor
V 6
Vapor Pressure Sensor
M 1
Mass Air Flow Meter
E 6
Engine Coolant Temp. Sensor
Air Conditioning System<26, 27>
Charging System
Multiple Communication System<1, 3>
Combination Meter<24, 27>
Front Left Fender
EB

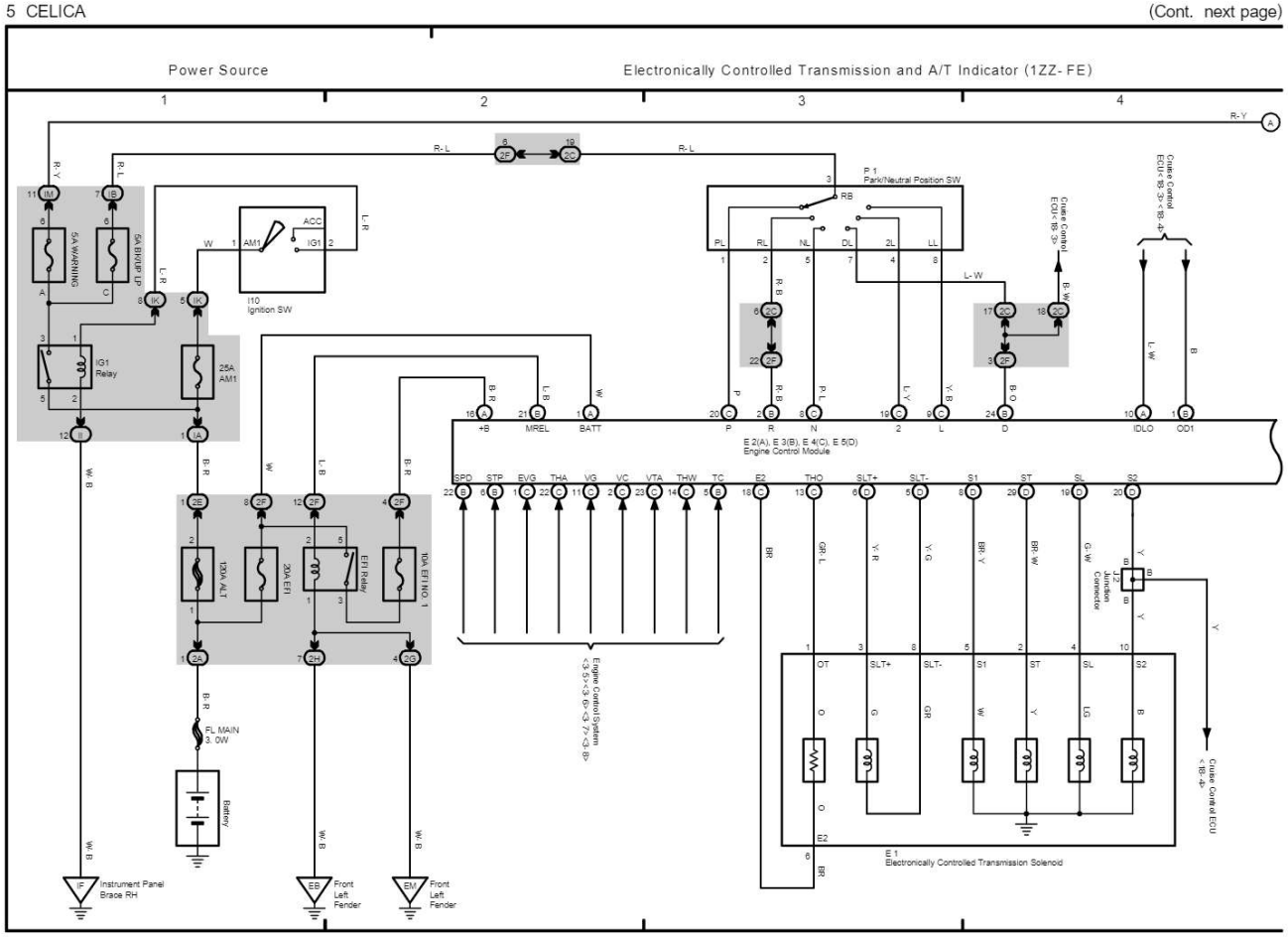

Engine Control (1ZZ-FE)
* 1 : Shielded
9
10
11
12
W-B
BR
B-W
W-B
Heated Oxygen Sensor (Bank 1 Sensor 1)
Heated Oxygen Sensor (Bank 1 Sensor 2)
+B
E1
HT
OX1A
HT2
OX1B
EA1
EB1
E5
2E
2F
2B
2C
2D
2F
2F
2F
2E
Y-R
B
W
Y-G
(*1)
HT1A
OX1A
HT1B
OX1B
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
NE+
NE-
G2
KNK1
E1
E02
E03
E01
O
L
C-4
Crankshaft Position Sensor
C-1
Camshaft Position Sensor
K-1
Knock Sensor (Bank 1)
J-1
Junction Connector
J-2
Junction Connector
Cylinder Head Cover LH
ED
EC
Cylinder Head Cover LH

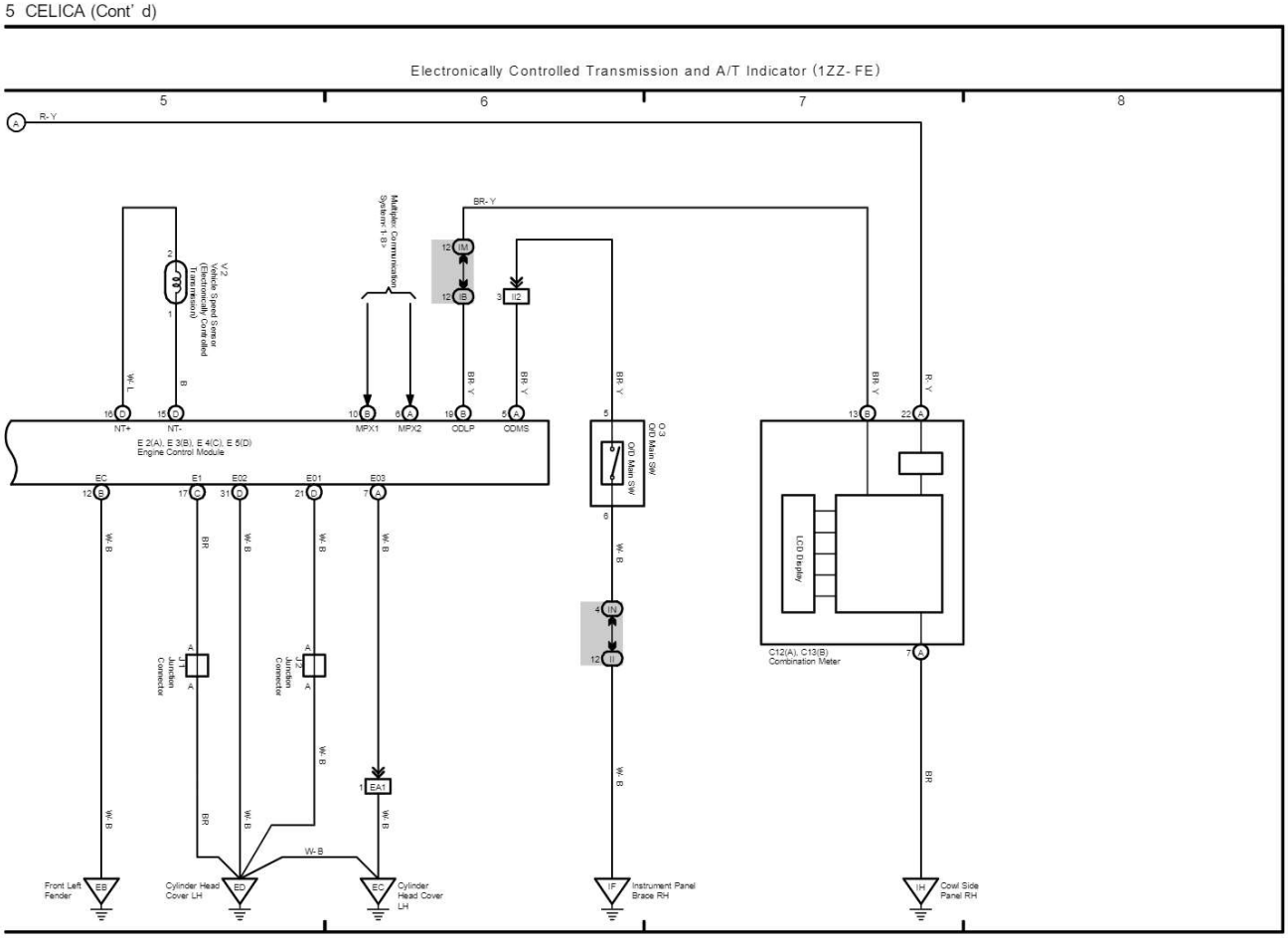
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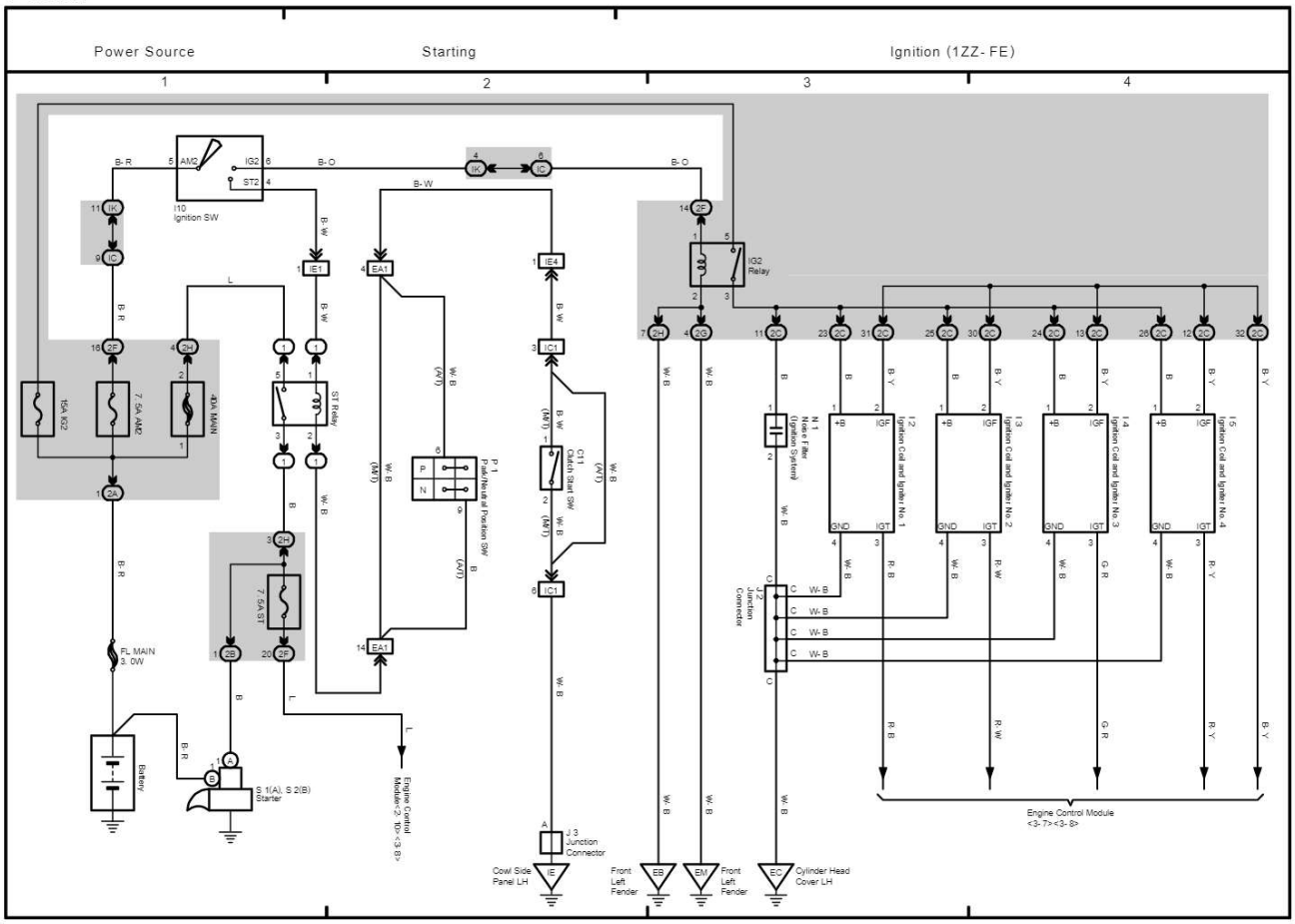


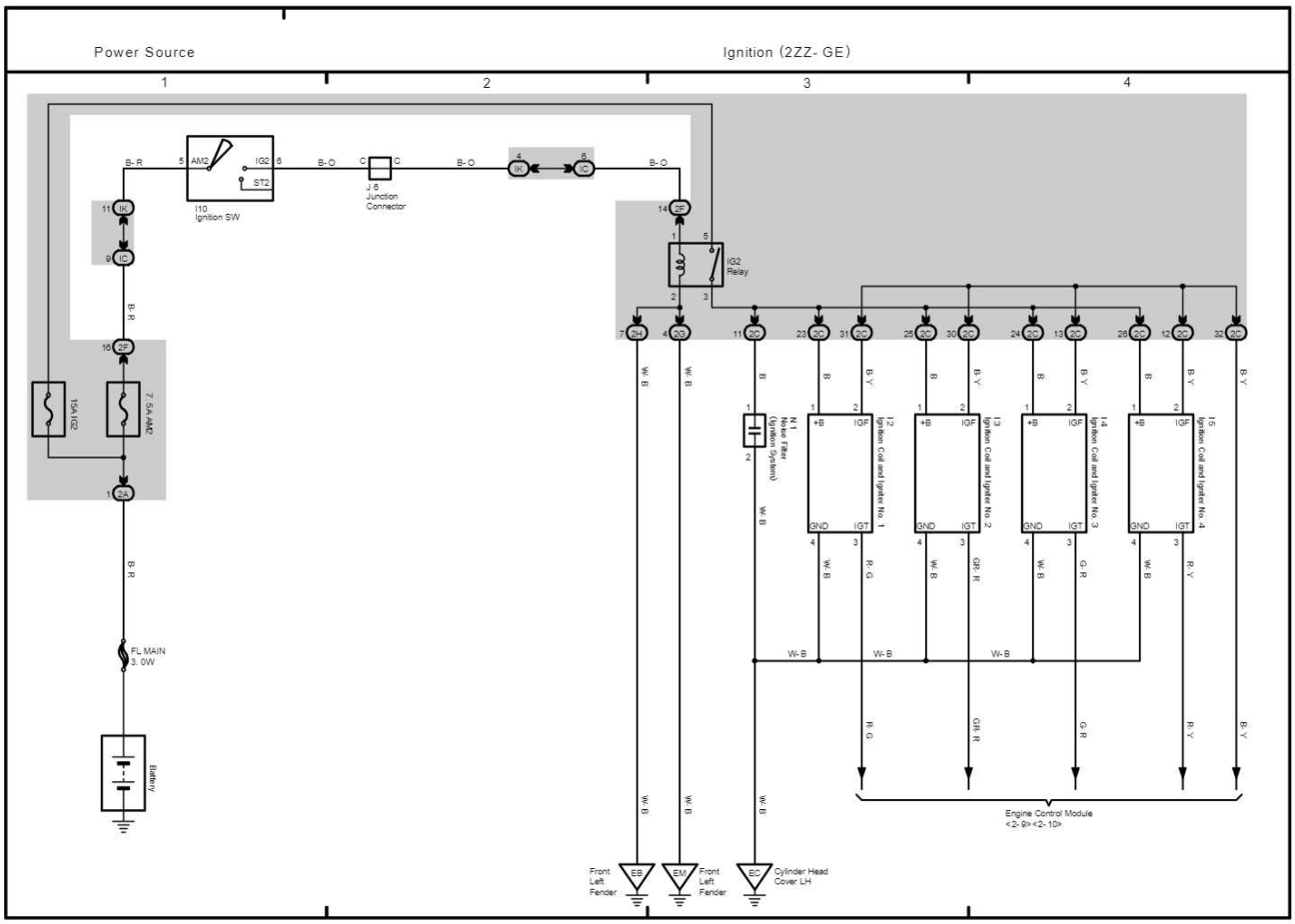

Electronically Controlled Transmission and A/T Indicator (2ZZ- GE)
5
6
7
8
R-Y
BR-Y
P-L
L-R
SFTU
SFTD
Left Up
Right Up
Left Down
Right Down
Transmission Shift SW
C16 Combination SW
ECC
IE3
IE2
II2
IM
IB
IF2
O/D Main SW
C.S Main SW
O.3 O/D Main SW
P-B
W-R
Body ECU <1.8>
C12(A), C13(B) Combination Meter
Sports A/T 1
Sports A/T 2
Sports A/T 3
Sports A/T 4
M
A/T OIL TEMP
LCD Display
E 8(E), E 8(F), E10(G), E11(H), E12(I)
Engine Control Module
EC
E1
E02
E01
E03
ME01
ODLP
ODMS
W-B
BR
W-G
W-R
EA3
IN
IM
Junction Connector
Front Left Fender
EB
Cylinder Head Cover LH
ED
EC
Cylinder Head Cover LH
IF
Instrument Panel Brace RH
IH
Cowl Side Panel RH

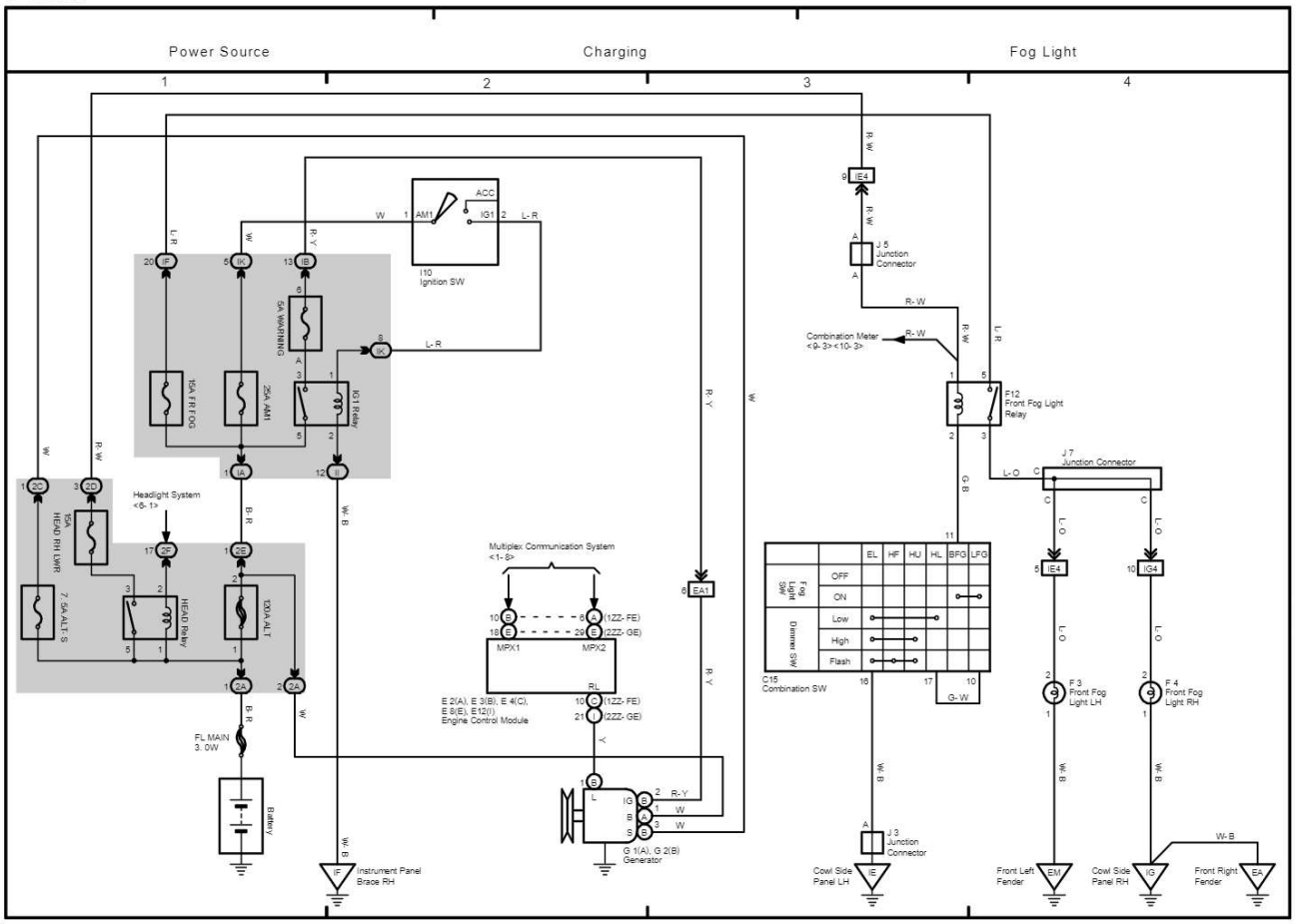
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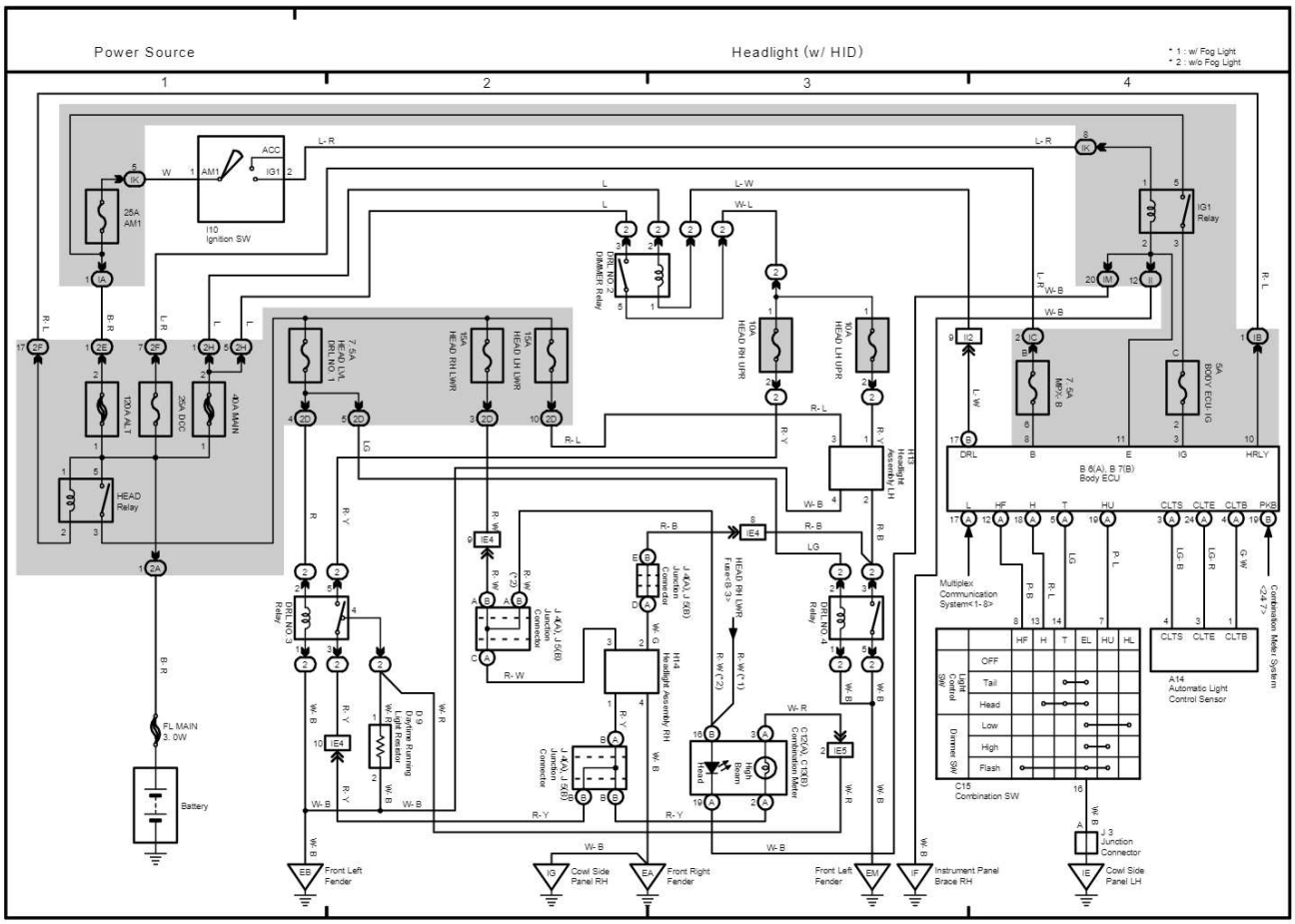


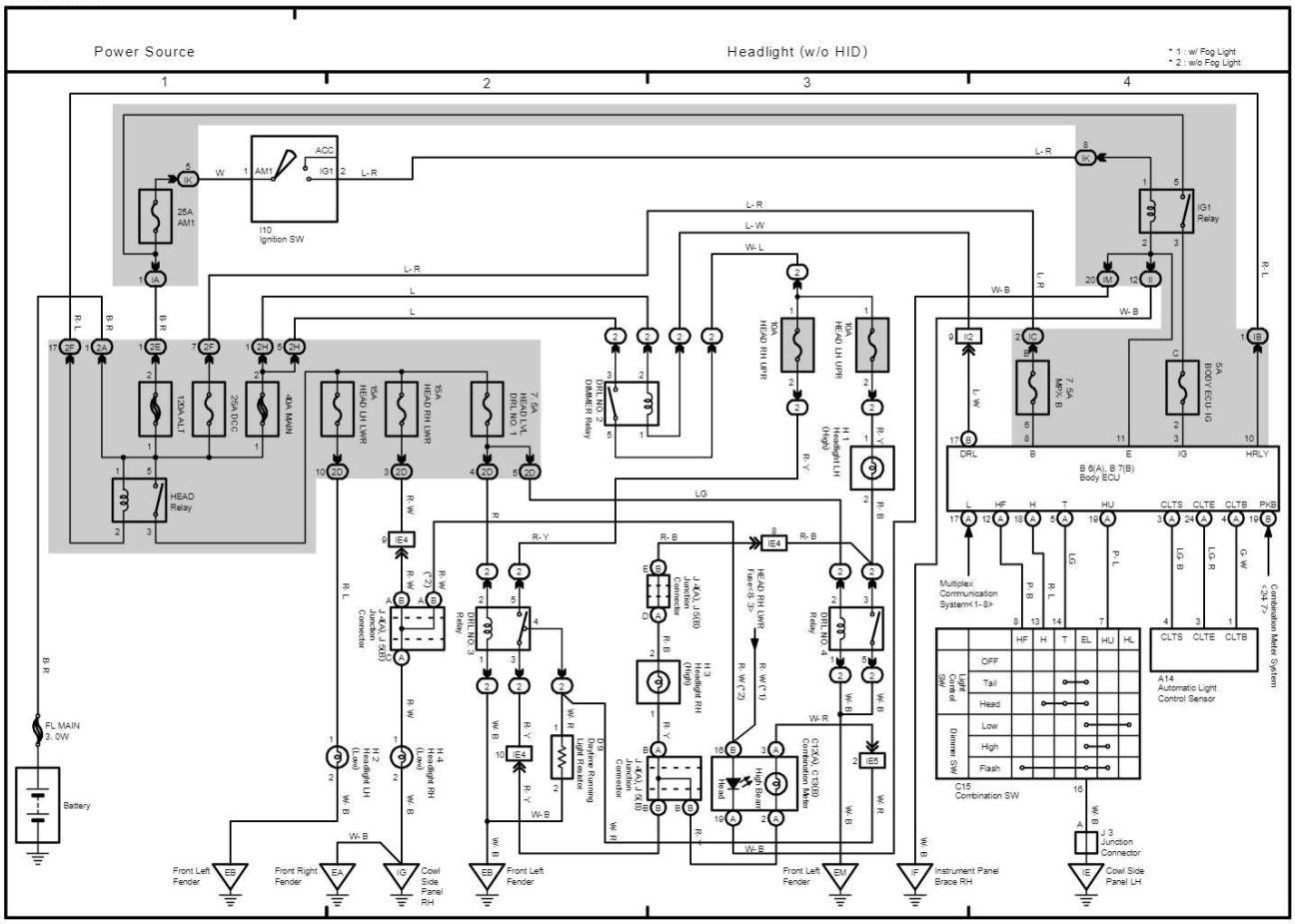

Electronically Controlled Transmission and A/T Indicator (1ZZ-FE)
5
6
7
8
R-Y
V2
Vehicle Speed Sensor
(Electronically Controlled Transmission)
W-L
B
Multiplex Communication System *1 *2
BR-Y
I2
BR-Y
BR-Y
BR-Y
R-Y
NT+
NT-
MPX1
MPX2
ODLP
ODMS
E 2(A), E 3(B), E 4(C), E 5(D)
Engine Control Module
O3
O/D Main SW
EC
E1
E02
E01
E03
W-B
BR
W-B
W-B
W-B
W-B
J1
Junction Connector
J2
Junction Connector
EA1
W-B
W-B
W-B
W-B
W-B
W-B
LCD Display
C12(A), C13(B)
Combination Meter
BR
Front Left Fender
EB
Cylinder Head Cover LH
ED
Cylinder Head Cover LH
EC
Instrument Panel Brace RH
IF
Cowl Side Panel RH
IH

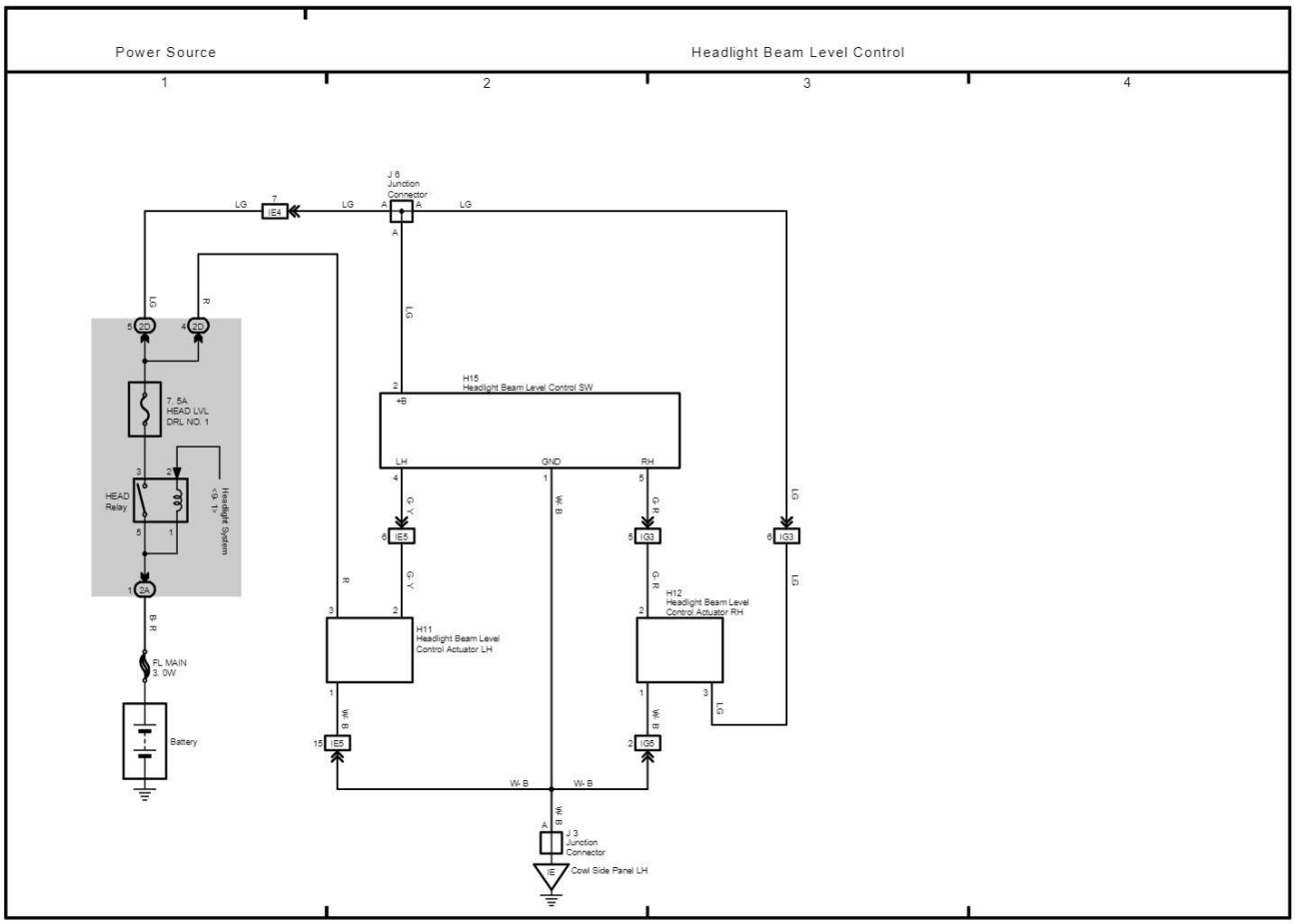

Power Source
Starting
Ignition (1ZZ- FE)
1
2
3
4
AM2
IG2
ST2
I10 Ignition SW
IG2 Relay
ST Relay
15A IG2
7.5A AM2
40A MAIN
7.5A ST
FL MAIN 3. 0W
Battery
S 1(A), S 2(B) Starter
P1 Park/Neutral Position SW
C11 Clutch Start SW
J 3 Junction Connector
Cowl Side Panel LH
Front Left Fender
Cylinder Head Cover LH
I1 Noise Filter (Ignition System)
I2 Ignition Coil and Ignitor No. 1
I3 Ignition Coil and Ignitor No. 2
I4 Ignition Coil and Ignitor No. 3
I5 Ignition Coil and Ignitor No. 4
J 1 Junction Connector
Engine Control Module <3- 7><3- 8>
Engine Control Module <2- 10><3- 8>


Power Source
Ignition (2ZZ- GE)
1
2
3
4
I10
Ignition SW
J 6
Junction
Connector
IG2
Relay
15A IG2
7.5A AM2
FL MAIN
3. 0W
Battery
N1
Noise Filter
(Ignition System)
I2
Ignition Coil and Igniter No. 1
I3
Ignition Coil and Igniter No. 2
I4
Ignition Coil and Igniter No. 3
I5
Ignition Coil and Igniter No. 4
Engine Control Module
<2- 9> <2- 10>
Front
Left
Fender
Front
Left
Fender
Cylinder Head
Cover LH

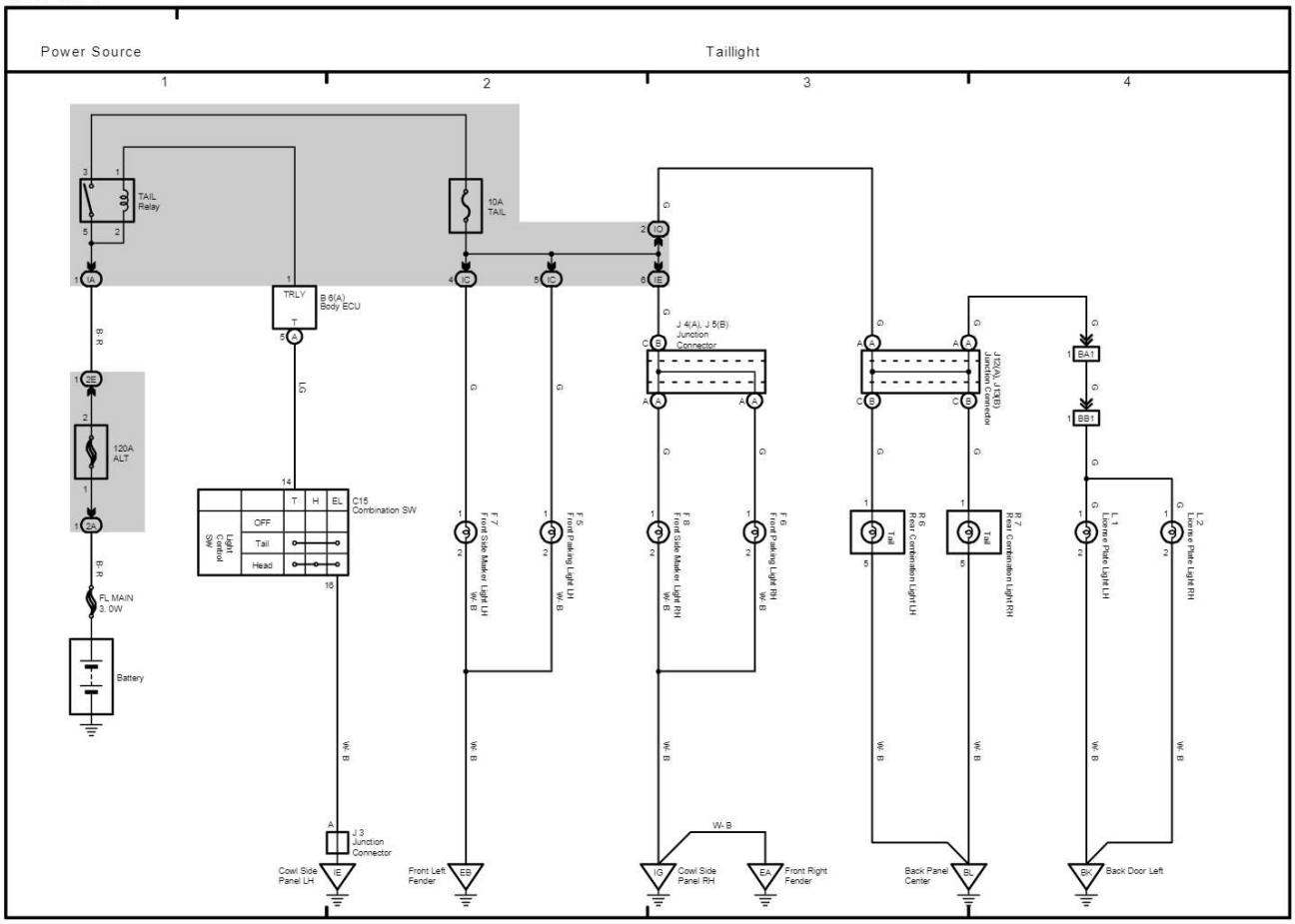

Power Source
Charging
Fog Light
1
2
3
4
ACC
IG1
AM1
I10
Ignition SW
5A WARNING
15A FR FOG
25A-AM1
IG1 Relay
J 5
Junction
Connector
Combination Meter
<9- 3><10- 3>
F12
Front Fog Light
Relay
J 7
Junction Connector
Headlight System
<6- 1>
15A
HEAD RH LWR
7.5A-ALT-S
HEAD Relay
120A-ALT
Multiplex Communication System
<1- 8>
MPX1
MPX2
E 2(A), E 3(B), E 4(C),
E 6(E), E12(I)
Engine Control Module
1ZZ- FE
2ZZ- GE
G 1(A), G 2(B)
Generator
FL MAIN
3. 0W
Battery
Instrument Panel
Brace RH
C15
Combination SW
Fog Light SW
Dimmer SW
OFF
ON
Low
High
Flash
EL
HF
HU
HL
BFG
LFG
J 3
Junction
Connector
Cowl Side
Panel LH
Front Left
Fender
Cowl Side
Panel RH
Front Right
Fender
F 3
Front Fog
Light LH
F 4
Front Fog
Light RH

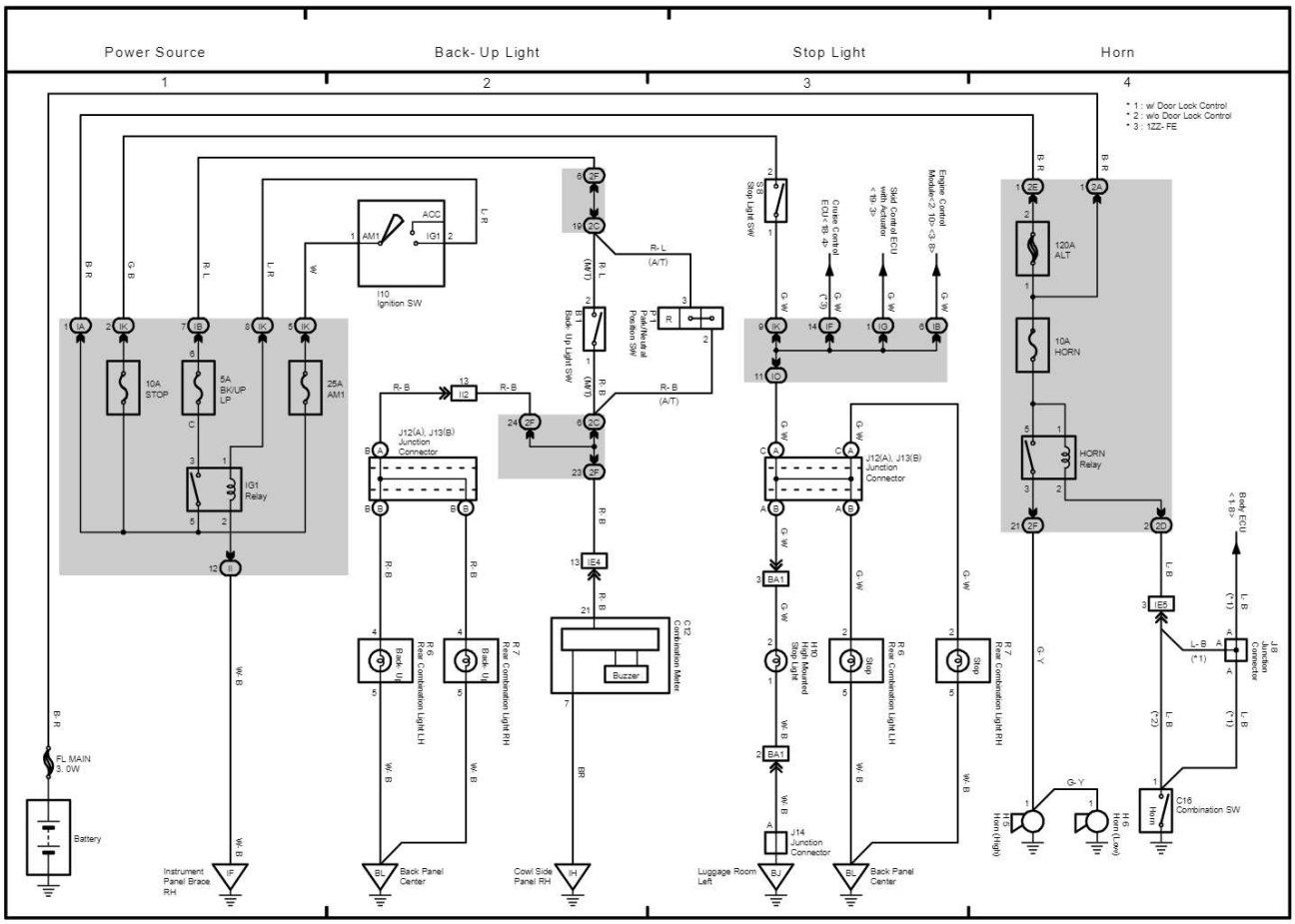

Power Source
Headlight (w/ HID)
* 1 : w/ Fog Light
* 2 : w/o Fog Light
1
2
3
4
ACC
IG1
AM1
I10
Ignition SW
25A
AM1
IG1
Relay
DRL NO.2
DIMMER Relay
10A
HEAD RH UPR
10A
HEAD LH UPR
7.5A
TAIL, LIC, DRL NO.1
15A
HEAD RH LWR
15A
HEAD LH LWR
7.5A
MPX B
5A
BODY ECU-IG
120A ALT
25A DCC
40A MAIN
HEAD
Relay
DRL NO.3
DRL NO.4
Relay
H13
Headlight
Assembly LH
H14
Headlight Assembly RH
J 4(A), J 5(B)
Junction
Connector
HEAD RH LWR
Fuse<8, 3>
Low
Beam
Head
C12(A), C13(B)
Combination Meter
High
Beam
Head
B 6(A), B 7(B)
Body ECU
DRL
B
E
IG
HRLY
Multiplex
Communication
System<1, 8>
L
HF
H
T
HU
CLTS
CLTE
CLTB
PKB
C15
Combination SW
Light
Control
SW
Dimmer SW
OFF
Tail
Head
Low
High
Flash
A14
Automatic Light
Control Sensor
Combination Meter System
<24, 7>
J 3
Junction
Connector
FL MAIN
3. 0W
Battery
D 9
Daytime Running
Light Resistor
Front Left
Fender
Cowl Side
Panel RH
Front Right
Fender
Front Left
Fender
Instrument Panel
Brace RH
Cowl Side
Panel LH

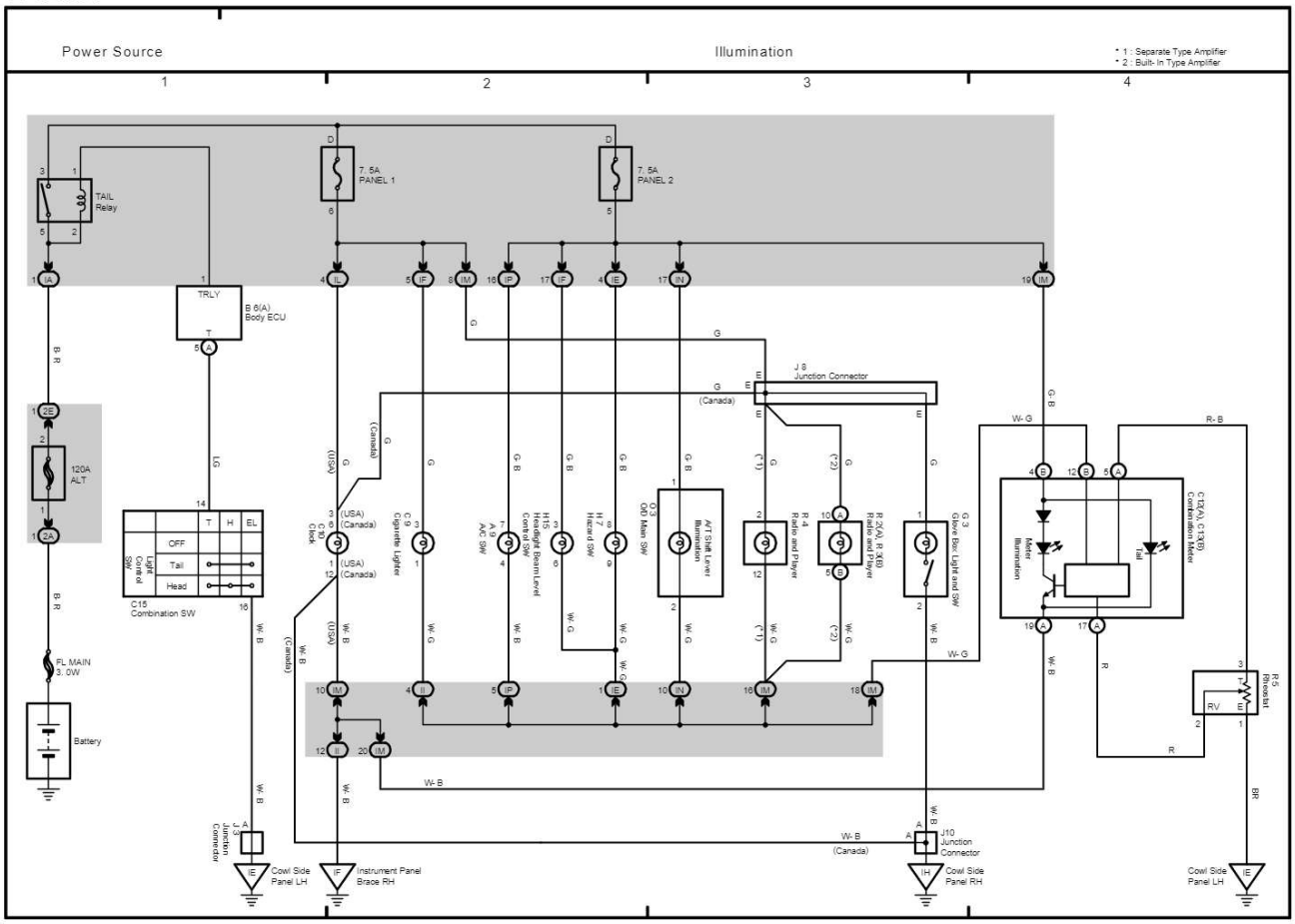

Power Source
Headlight (w/o HID)
* 1 : w/ Fog Light
* 2 : w/o Fog Light
1
2
3
4
ACC
IG1
AM1
I10
Ignition SW
25A
AM1
IG1
Relay
HEAD
Relay
10A
HEAD RH UPR
10A
HEAD LH UPR
DRL NO.2
DIMMER Relay
15A
HEAD LH LWR
15A
HEAD RH LWR
7.5A
TAIL LH
DRL NO.1
7.5A
TAIL RH
DRL NO.2
120A ALT
25A DCC
40A MAIN
5A
ECU-IG
7.5A
MPX B
B (A), B 7(B)
Body ECU
DRL
B
E
IG
HRLY
L
HF
H
T
HU
CLTS
CLTE
CLTB
PKB
Multiplex
Communication
System<1- 8>
Combination Meter System
<24 1>
A14
Automatic Light
Control Sensor
C15
Combination SW
Light Control SW
Dimmer SW
OFF
Tail
Head
Low
High
Flash
J 3
Junction
Connector
FL MAIN
3. 0W
Battery
H 1
Headlight LH
(High)
H 2
Headlight LH
(Low)
H 3
Headlight RH
(High)
H 4
Headlight RH
(Low)
DRL NO.3
Relay
DRL NO.4
Relay
HEAD RH LWR
Fuse<9- 3>
High Beam
Head
C1(A), C2(B)
Combination Meter
D9
Daytime Running
Light Resistor
Front Left
Fender
Front Right
Fender
Cowl
Side
Panel
RH
Instrument Panel
Brace RH
Cowl Side
Panel LH

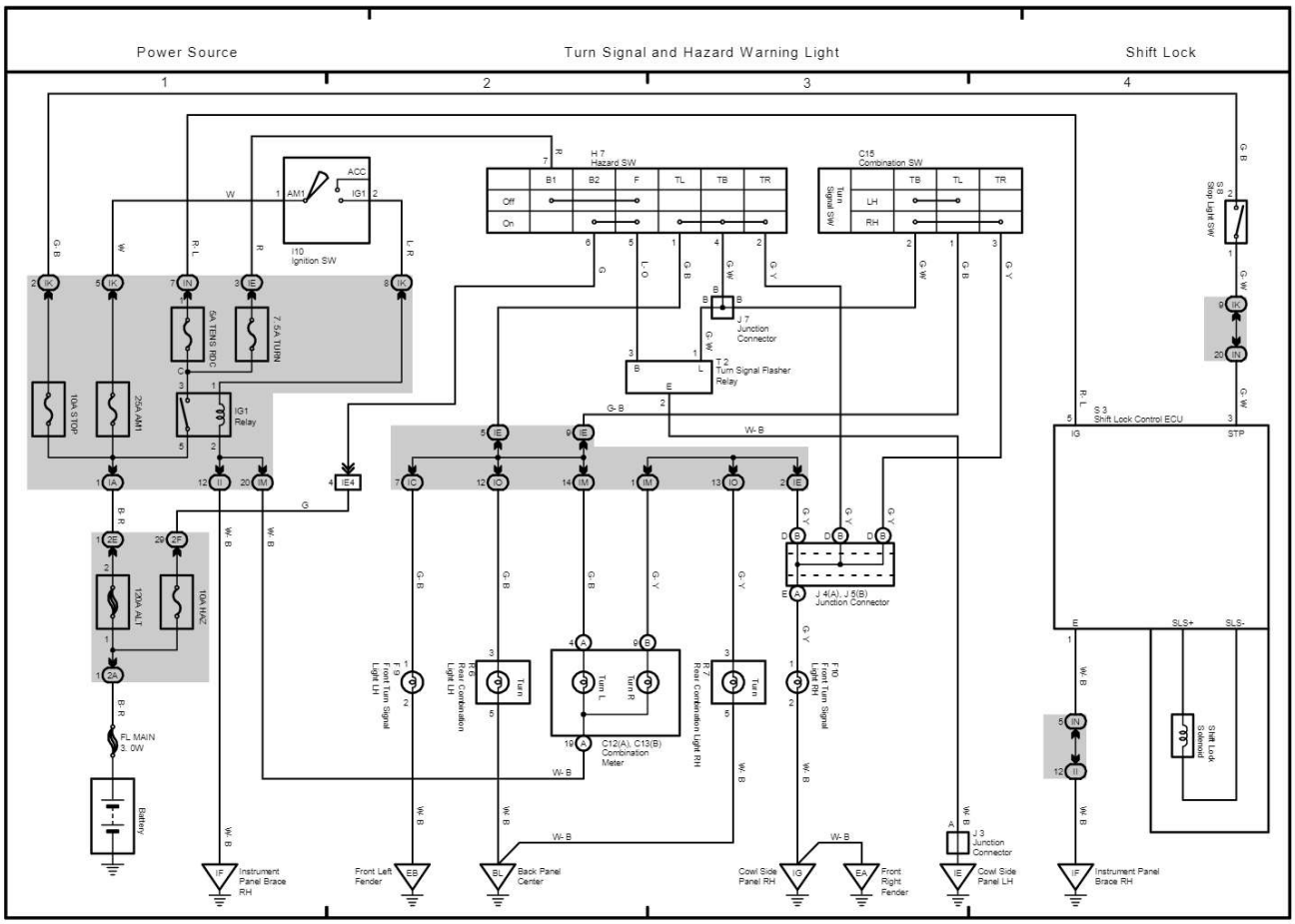

Power Source
Headlight Beam Level Control
1
2
3
4
J 6
Junction
Connector
IE4
LG
R
2D
7. 5A
HEAD LVL
DRL NO. 1
HEAD
Relay
Headlight System
<9 '17>
2A
B- R
FL MAIN
3. 0W
Battery
H15
Headlight Beam Level Control SW
+B
LH
GND
RH
G- Y
W- B
G- R
IE5
IG3
H11
Headlight Beam Level
Control Actuator LH
H12
Headlight Beam Level
Control Actuator RH
IG5
J 3
Junction
Connector
IE
Cowl Side Panel LH

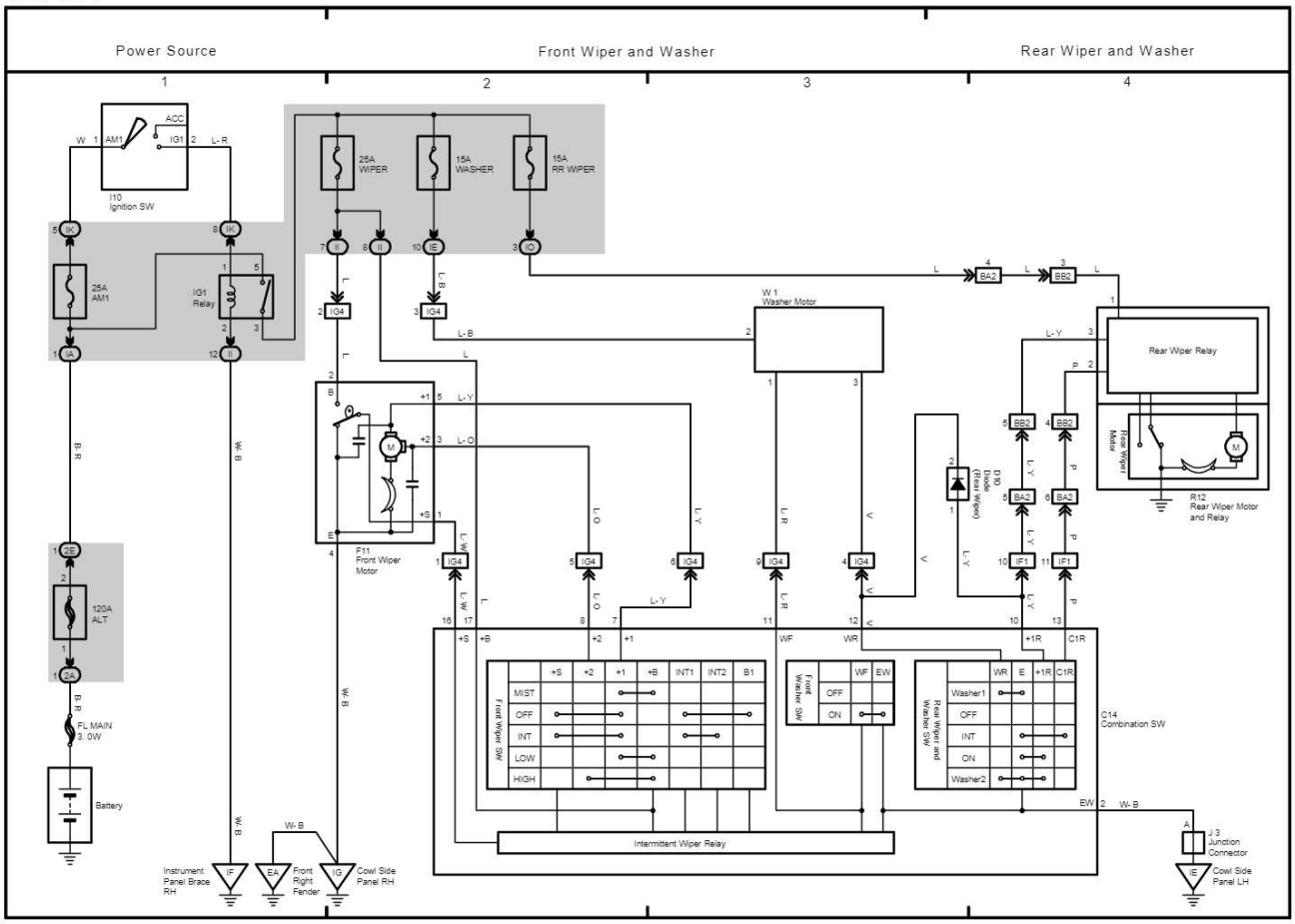
12 CELICA

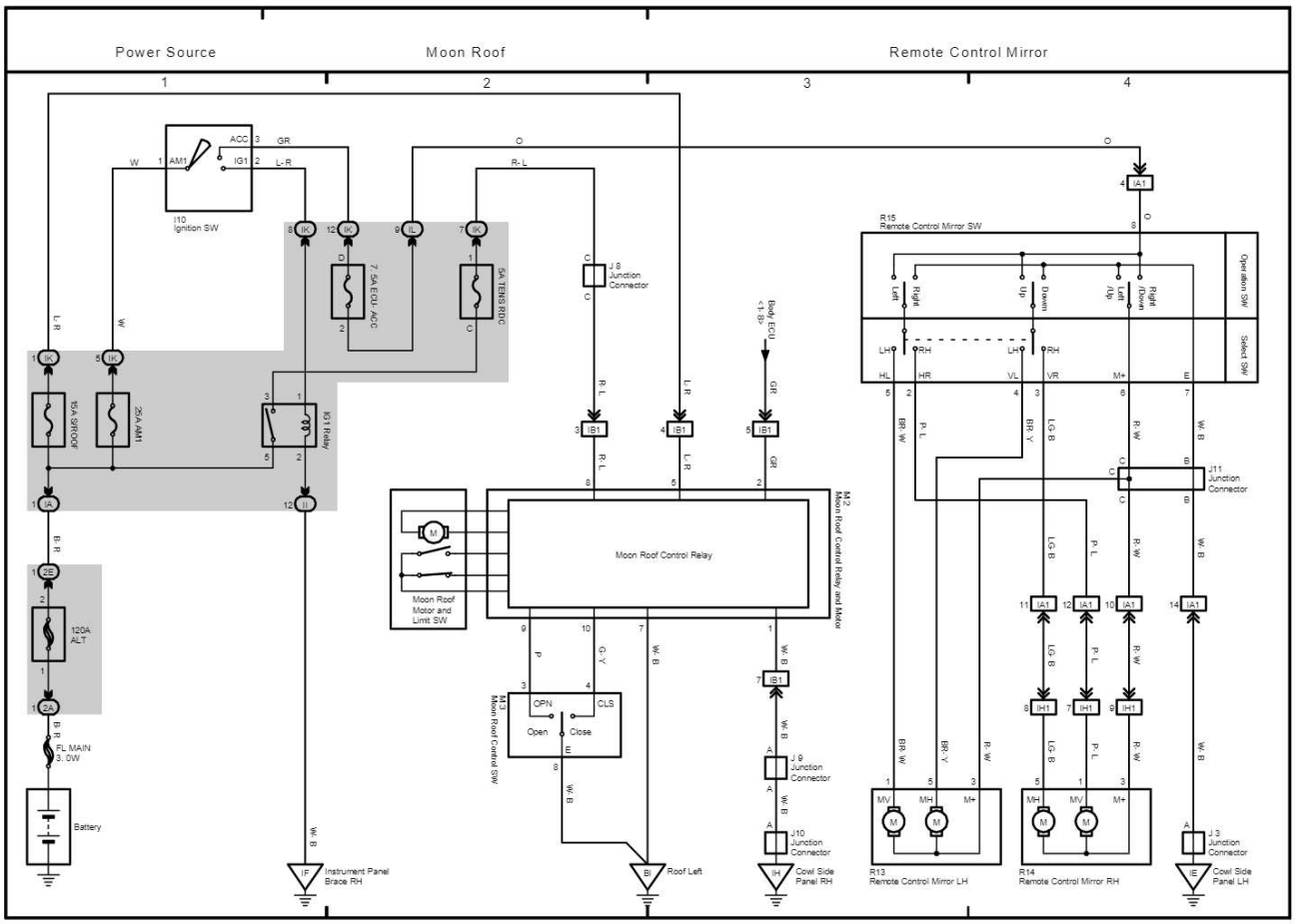

Power Source
Taillight
1
2
3
4
TAIL Relay
10A TAIL
TRLY
B 6(A) Body ECU
120A ALT
FL MAIN 3.0W
Battery
C15 Combination SW
OFF
Tail
Head
Light Control SW
J 4(A), J 5(B) Junction Connector
J 3 Junction Connector
F 7 Front Side Marker Light LH
F 5 Front Parking Light LH
F 8 Front Side Marker Light RH
F 6 Front Parking Light RH
R 6 Rear Combination Light LH
R 7 Rear Combination Light RH
L 1 Licence Plate Light LH
L 2 Licence Plate Light RH
Cowl Side Panel LH
Front Left Fender
Cowl Side Panel RH
Front Right Fender
Back Panel Center
Back Door Left

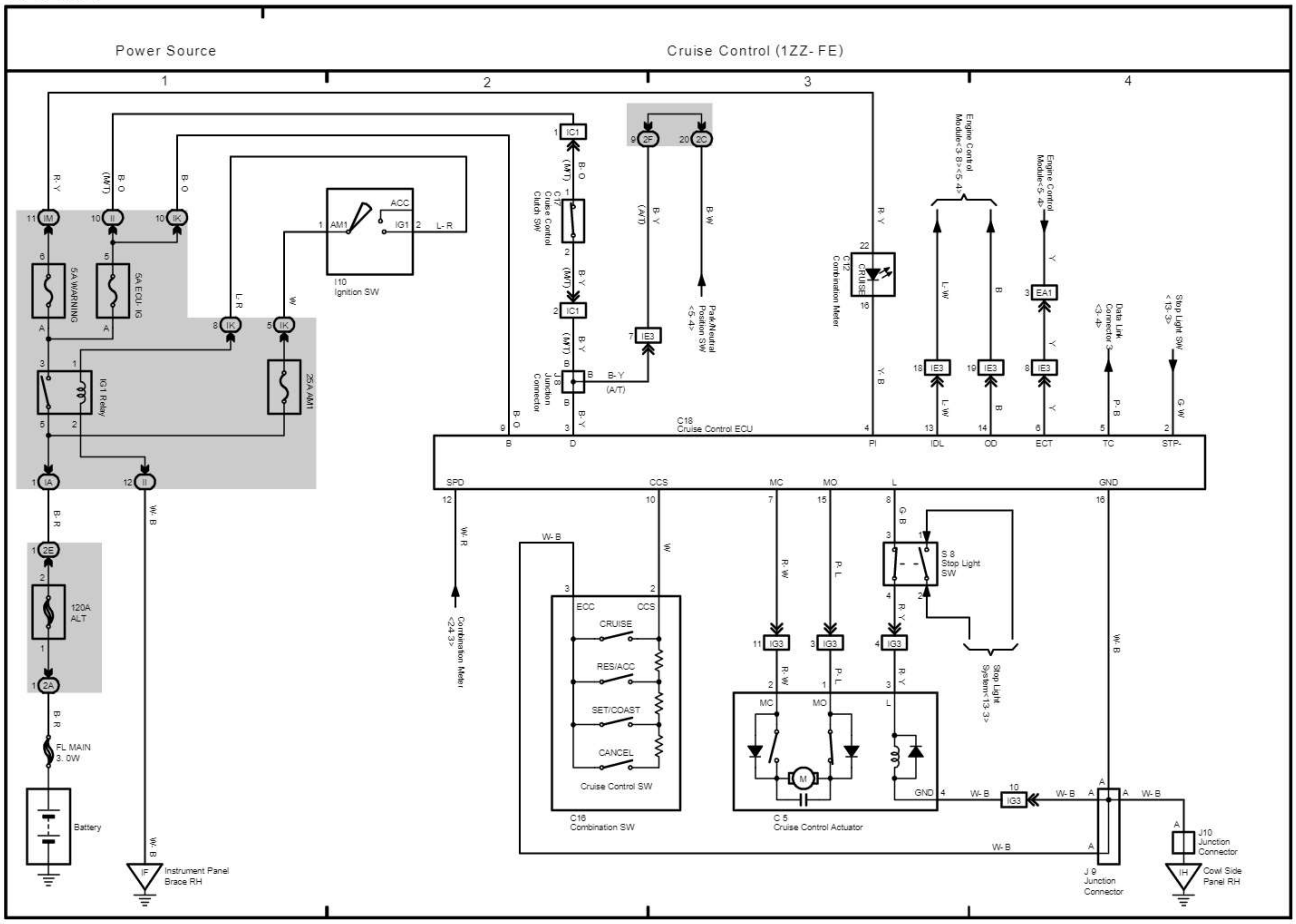

Power Source
Back- Up Light
Stop Light
Horn
1
2
3
4
* 1 : w/ Door Lock Control
* 2 : w/o Door Lock Control
* 3 : 1ZZ- FE
10A STOP
5A BK/UP LP
25A AM1
IG1 Relay
I10 Ignition SW
Back- Up Light SW
Park/Neutral Position SW
J12(A), J13(B) Junction Connector
R6 Rear Combination Light LH
R7 Rear Combination Light RH
C12 Combination Meter
Buzzer
Stop Light SW
Cruise Control ECU <'93 - '97>
Skid Control ECU with Actuator <'93 - '97>
Engine Control Module <2.1D> <3.0>
High Mounted Stop Light
J14 Junction Connector
120A ALT
10A HORN
HORN Relay
Horn (High)
Horn (Low)
C16 Combination SW
Body ECU <1.8>
J8 Junction Connector
FL MAIN 3.0W
Battery
Instrument Panel Brace RH
Back Panel Center
Cowl Side Panel RH
Luggage Room Left
Back Panel Center

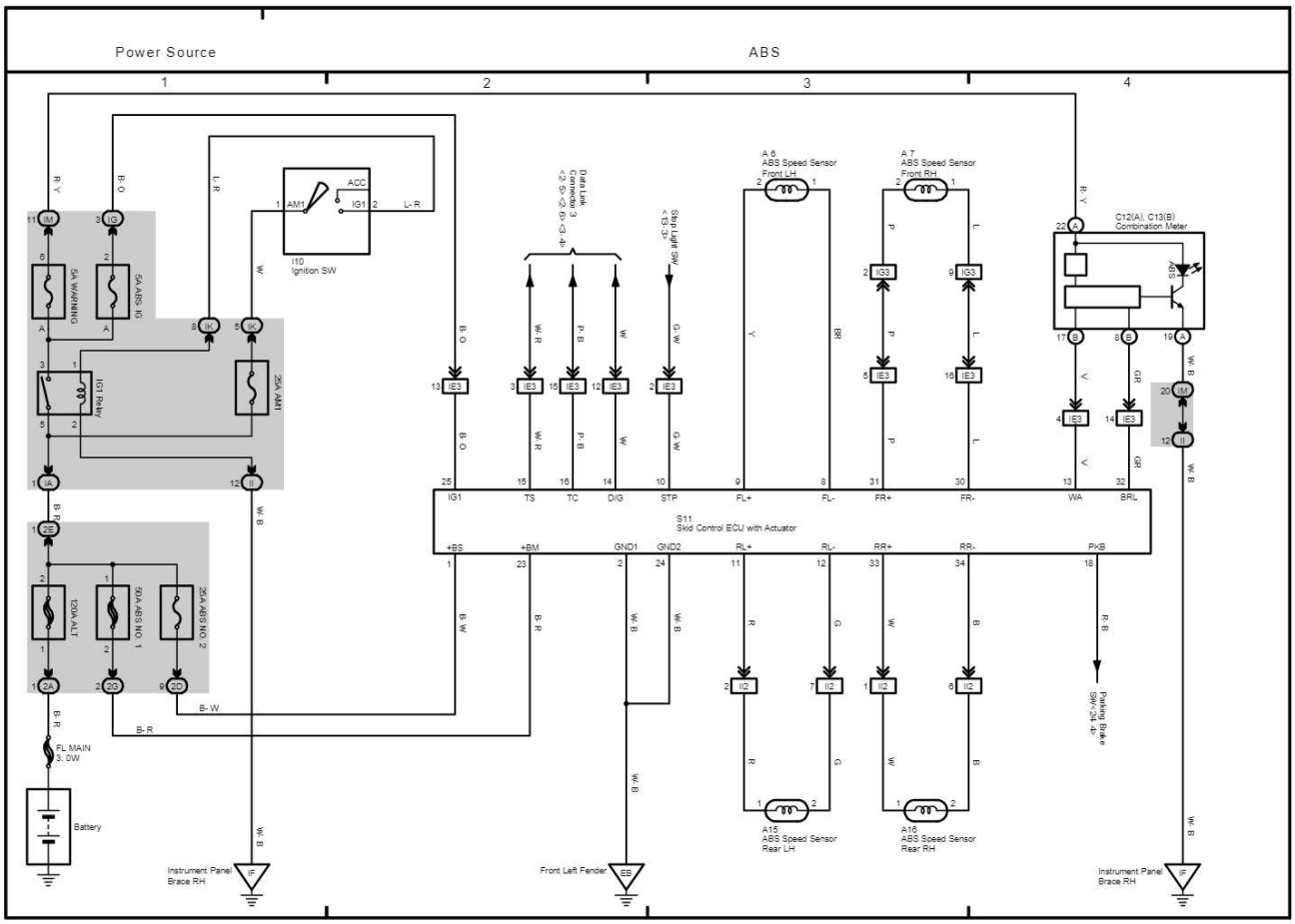

Power Source
Illumination
* 1 : Separate Type Amplifier
* 2 : Built- In Type Amplifier
1
2
3
4
TAIL Relay
7. 5A PANEL 1
7. 5A PANEL 2
TRLY
B 6(A) Body ECU
120A ALT
FL MAIN 3. 0W
Battery
C15 Combination SW
Light Control SW
OFF
Tail
Head
T
H
EL
J 8 Junction Connector
(Canada)
(USA)
(Canada)
C 9 Cigarette Lighter
C 10 Clock
A 8 A/C SW
H15 Headlight Beam Level Control SW
H 7 Hazard SW
O 3 O/D Main SW
A/T Shift Lever Illumination
R 4 Radio and Player
R 2(A), R 3(D) Radio and Player
G 3 Glove Box Light and SW
Meter Illumination
C13(A), C13(D) Combination Meter
TAIL
R5 Rheostat
J 9 Junction Connector
J10 Junction Connector
Cowl Side Panel LH
Instrument Panel Brace RH
Cowl Side Panel RH
Cowl Side Panel LH

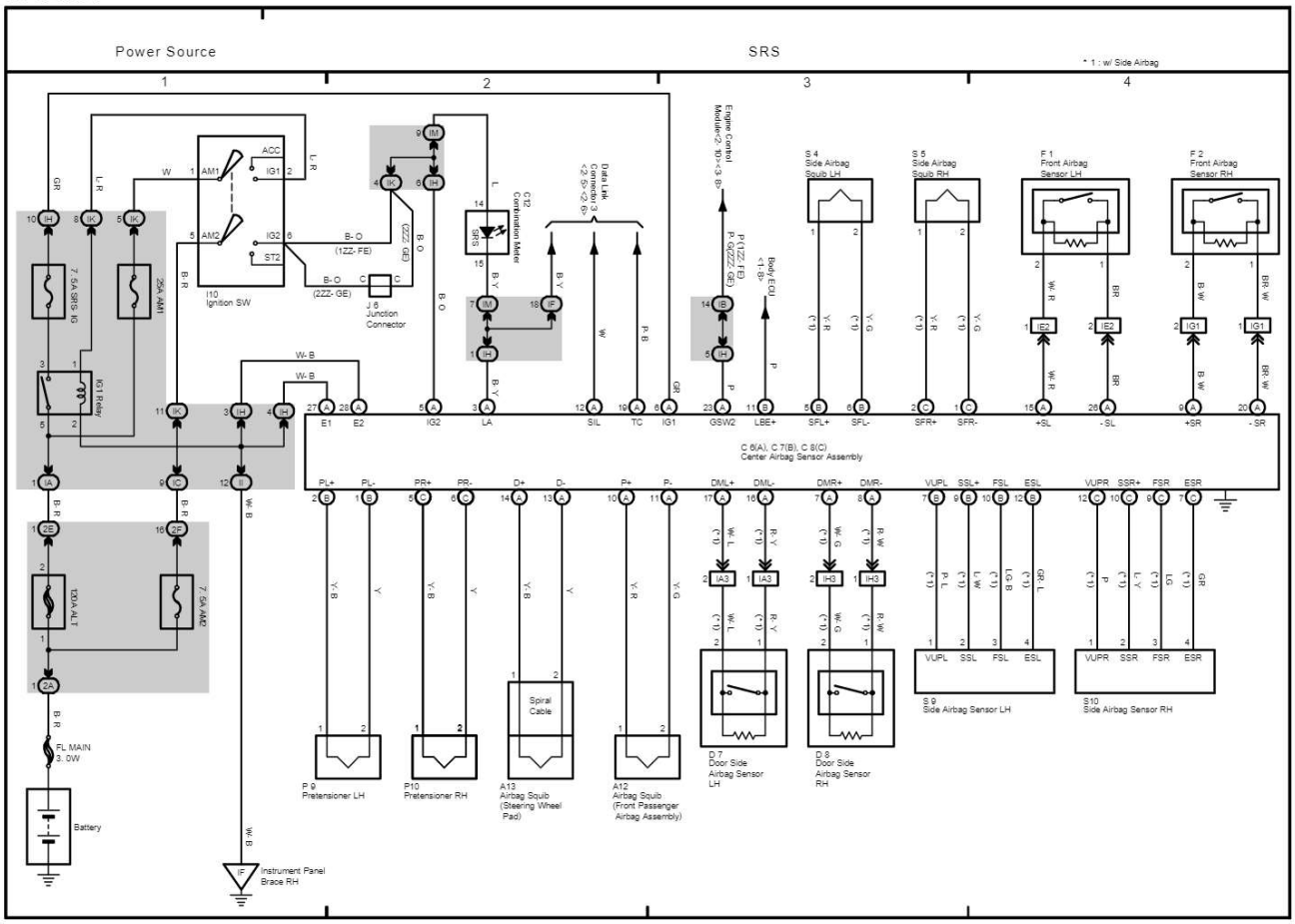

Power Source
Turn Signal and Hazard Warning Light
Shift Lock
1
2
3
4
H 7
Hazard SW
B1
B2
F
TL
TB
TR
Off
On
C15
Combination SW
Turn Signal SW
LH
RH
I10
Ignition SW
ACC
IG1
AM1
Stop Light SW
J 7
Junction Connector
T 2
Turn Signal Flasher Relay
IG1 Relay
10A STOP
25A AM1
5A TERS RDC
7.5A TURN
120A ALT
10A HAZ
FL MAIN
3. 0W
Battery
S 3
Shift Lock Control ECU
IG
STP
SLS+
SLS-
Shift Lock Solenoid
J 4(A), J 5(B)
Junction Connector
F 9
Front Turn Signal Light LH
R 6
Rear Combination Light LH
C12(A), C13(B)
Combination Meter
Turn L
Turn R
R 7
Rear Combination Light RH
F10
Front Turn Signal Light RH
J 3
Junction Connector
Instrument Panel Brace RH
Front Left Fender
Back Panel Center
Cowl Side Panel RH
Front Right Fender
Cowl Side Panel LH
Instrument Panel Brace RH

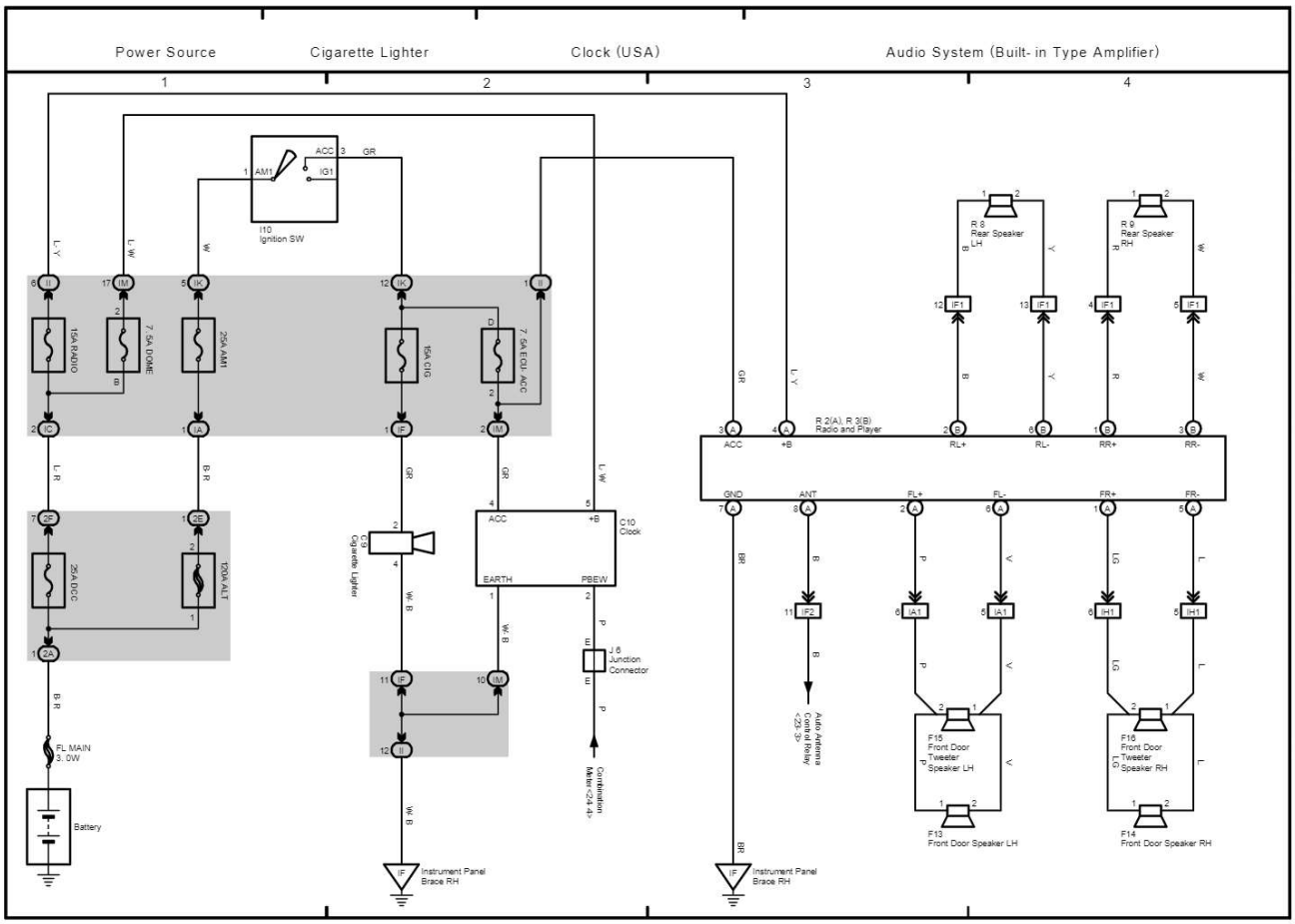

Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
ACC
AM1
IG1
I10
Ignition SW
25A
AM1
IG1
Relay
25A
WIPER
15A
WASHER
15A
RR WIPER
W 1
Washer Motor
Rear Wiper Relay
R12
Rear Wiper Motor
and Relay
D10
Diode
(Rear Wiper)
F11
Front Wiper
Motor
120A
ALT
FL MAIN
3. 0W
Battery
Intermittent Wiper Relay
C14
Combination SW
Front Wiper SW
Rear Wiper and
Washer SW
MIST
OFF
INT
LOW
HIGH
Washer1
Washer2
J 3
Junction
Connector
Instrument
Panel Brace
RH
Front
Right
Fender
Cowl Side
Panel RH
Cowl Side
Panel LH

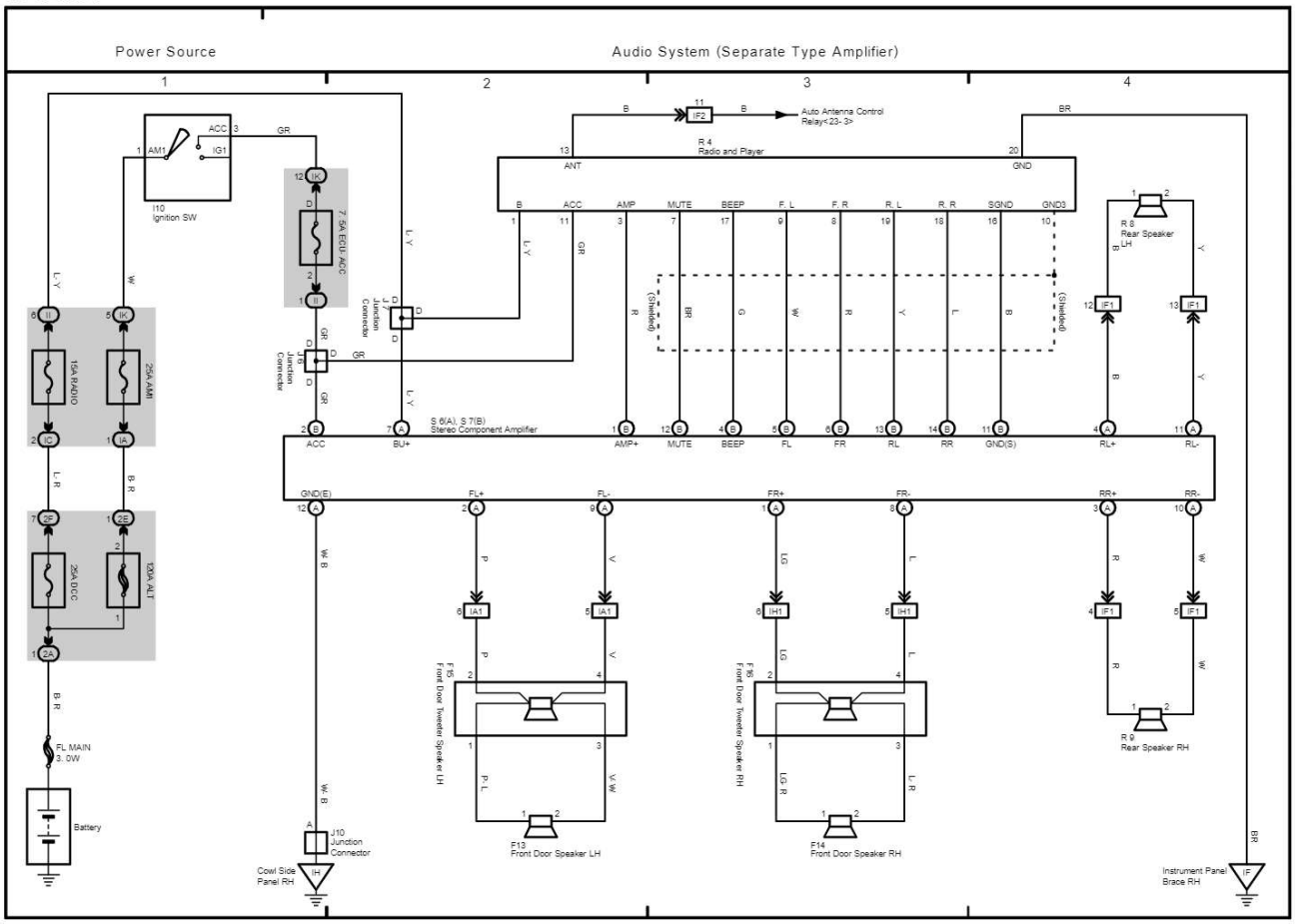

Power Source
Moon Roof
Remote Control Mirror
1
2
3
4
ACC
IG1
AM1
J10
Ignition SW
7.5A EFI, ACC
5A TEN, RDC
J 8
Junction
Connector
Body ECU
<F-I/S>
R15
Remote Control Mirror SW
Operation SW
Select SW
Left
Right
Up
Down
LH
RH
HL
HR
VL
VR
M+
E
J11
Junction
Connector
50A SROOF
25A AM1
IB1 Relay
120A
ALT
FL MAIN
3.0W
Battery
Moon Roof Control Relay
Moon Roof
Motor and
Limit SW
M12
Moon Roof Control Relay and Motor
M13
Moon Roof Control SW
OPN
CLS
Open
Close
J 9
Junction
Connector
J10
Junction
Connector
J 3
Junction
Connector
Instrument Panel
Brace RH
Roof Left
Cowl Side
Panel RH
Cowl Side
Panel LH
R13
Remote Control Mirror LH
R14
Remote Control Mirror RH
MV
MH
M+

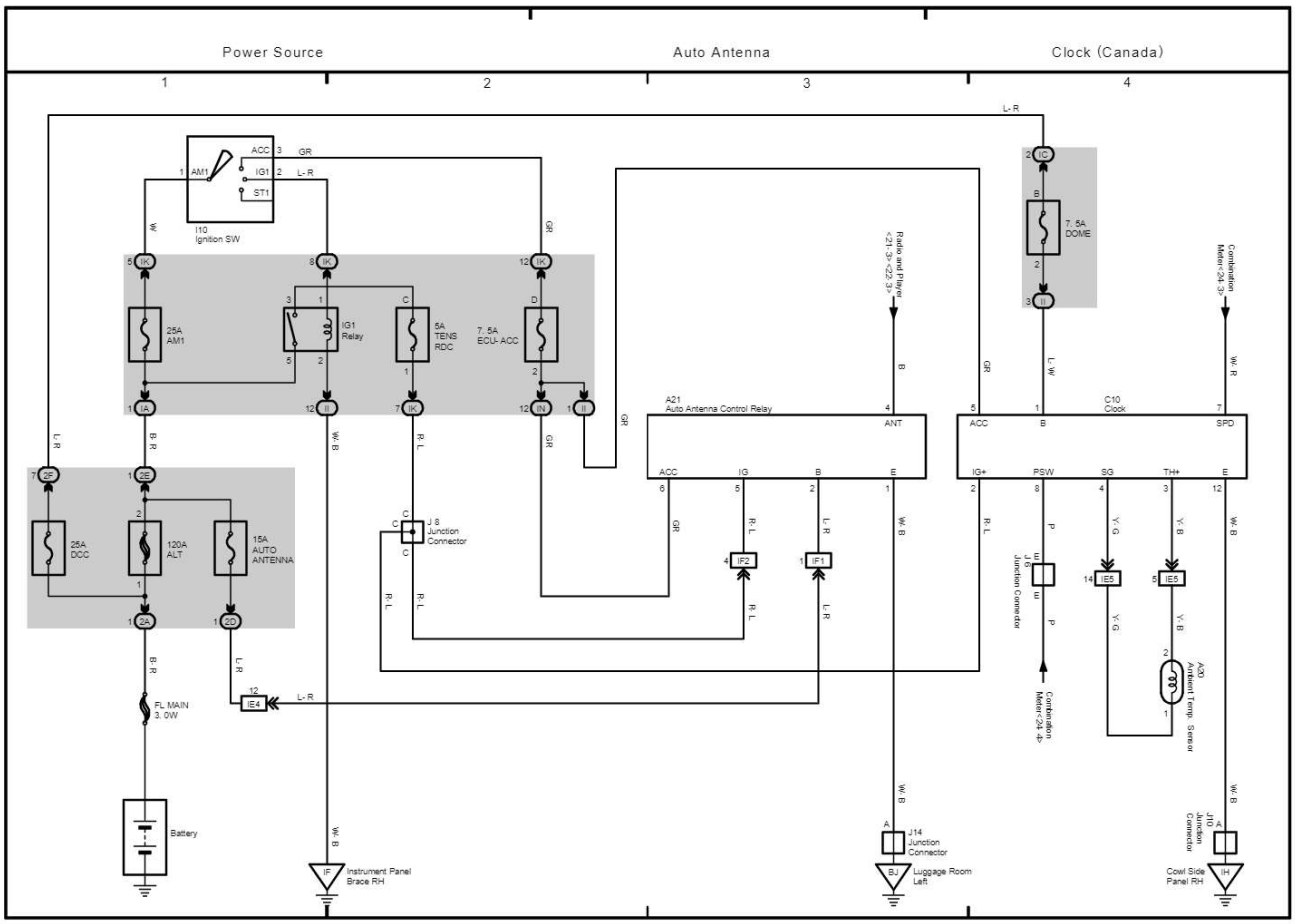

Power Source
Cruise Control (1ZZ- FE)
1
2
3
4
I10
Ignition SW
ACC
IG1
AM1
L - R
5A WARNING
5A ECU- IG
IG1 Relay
25A AM1
120A ALT
FL MAIN 3. 0W
Battery
Instrument Panel Brace RH
C17
Cruise Control Clutch SW
(M/T)
(A/T)
Park/Neutral Position SW <3, 4>
C18
Cruise Control ECU
C17
Combination Meter
Engine Control Module <3, 5>, <4>
Engine Control Module <5, 4>
Data Link Connector 3 <3, 4>
Stop Light SW <3, 3>
SPD
CCS
MC
MO
L
GND
PI
IDL
OD
ECT
TC
STP-
Combination Meter <24, 3>
C16
Combination SW
ECC
CRUISE
RES/ACC
SET/COAST
CANCEL
Cruise Control SW
C 5
Cruise Control Actuator
S 8
Stop Light SW
Stop Light System <13, 3>
J 9
Junction Connector
J10
Junction Connector
Cowl Side Panel RH


Power Source
ABS
1
2
3
4
R-Y
B-O
L-R
W
ACC
IG1
AM1
L-R
I10
Ignition SW
5A WARNING
5A ABS IG
IG1 Relay
25A AM1
B-R
W-B
2E
120A ALT
50A ABS NO. 1
25A ABS NO. 2
2A
2G
2D
B-W
B-R
FL MAIN
3.0W
Battery
Instrument Panel Brace RH
IF
Data Link Connector 3
<2-5> <2-6> <3-4>
W-R
P-B
W
Stop Light SW
G-W
IE3
IG1
TS
TC
D/G
STP
S11
Skid Control ECU with Actuator
+BS
+BM
GND1
GND2
Front Left Fender
EB
A6
ABS Speed Sensor Front LH
A7
ABS Speed Sensor Front RH
Y
BR
P
L
IG3
FL+
FL-
FR+
FR-
A15
ABS Speed Sensor Rear LH
A16
ABS Speed Sensor Rear RH
C12(A), C13(B)
Combination Meter
ABS
V
GR
WA
BRL
Parking Brake SW<24-4>
P-B
PKB
II2
R
G
W
B

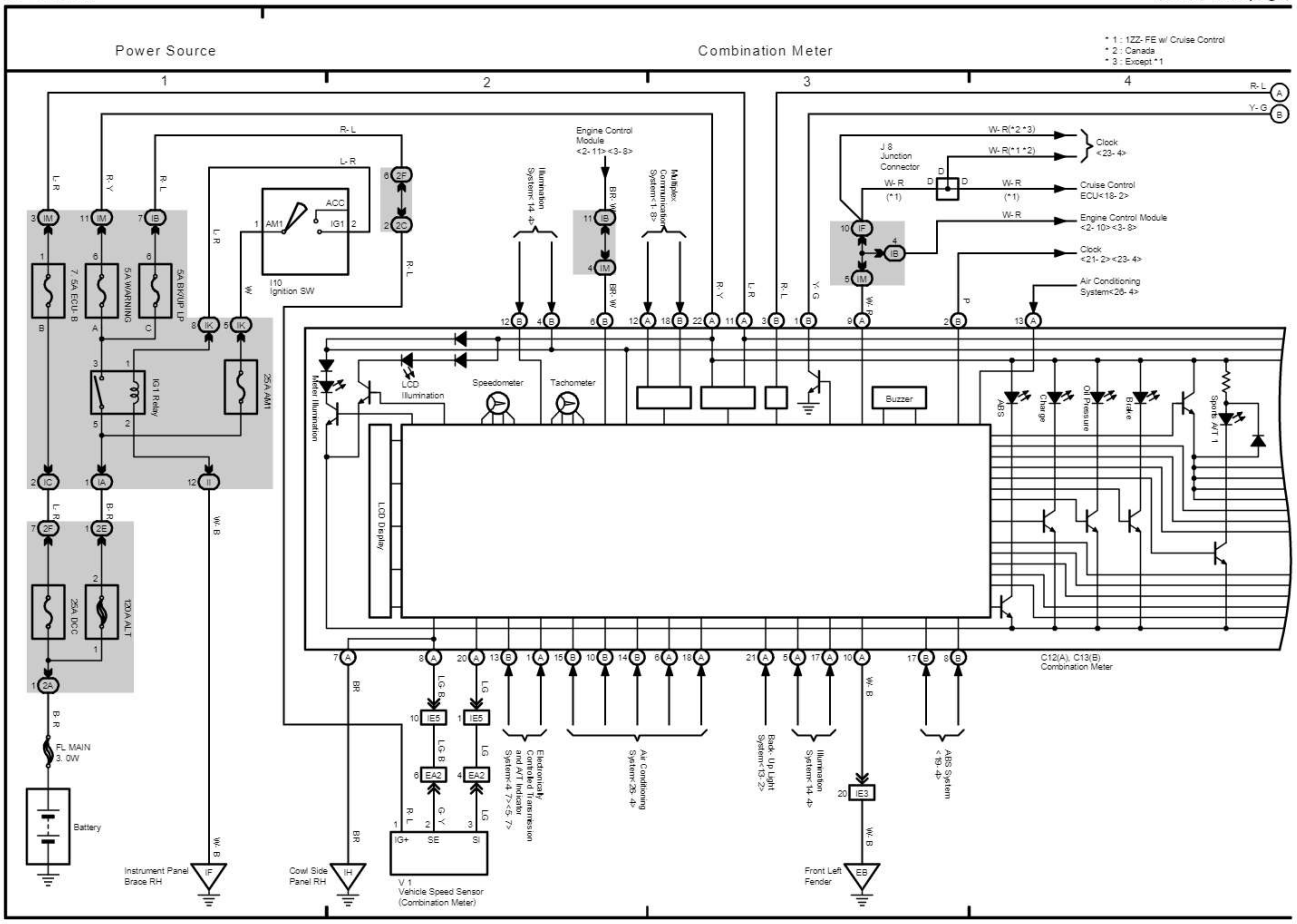

Power Source
SRS
* 1 : w/ Side Airbag
1
2
3
4
Engine Control Module<2.0D-3.6>
S 4 Side Airbag Squib LH
S 5 Side Airbag Squib RH
F 1 Front Airbag Sensor LH
F 2 Front Airbag Sensor RH
Body ECU <1.8>
Data Link Connector 3 <2.5><2.6>
C12 Combination Meter
I10 Ignition SW
J 6 Junction Connector
I01 Relay
2.0A-SRS
25A-AM1
10A-ALT
7.5A-AM2
FL MAIN 3.0W
Battery
Instrument Panel Brace RH
E1
E2
IG2
LA
SIL
TC
IG1
GSW2
LBE+
SFL+
SFL-
SFR+
SFR-
+SL
-SL
+SR
-SR
C 6(A), C 7(B), C 8(C) Center Airbag Sensor Assembly
PL+
PL-
PR+
PR-
D+
D-
P+
P-
DML+
DML-
DMR+
DMR-
VUPL
SSL+
FSL
ESL
VUPR
SSR+
FSR
ESR
P 9 Pretensioner LH
P10 Pretensioner RH
A13 Airbag Squib (Steering Wheel Pad)
A12 Airbag Squib (Front Passenger Airbag Assembly)
D 7 Door Side Airbag Sensor LH
D 8 Door Side Airbag Sensor RH
S 9 Side Airbag Sensor LH
S10 Side Airbag Sensor RH
Spiral Cable

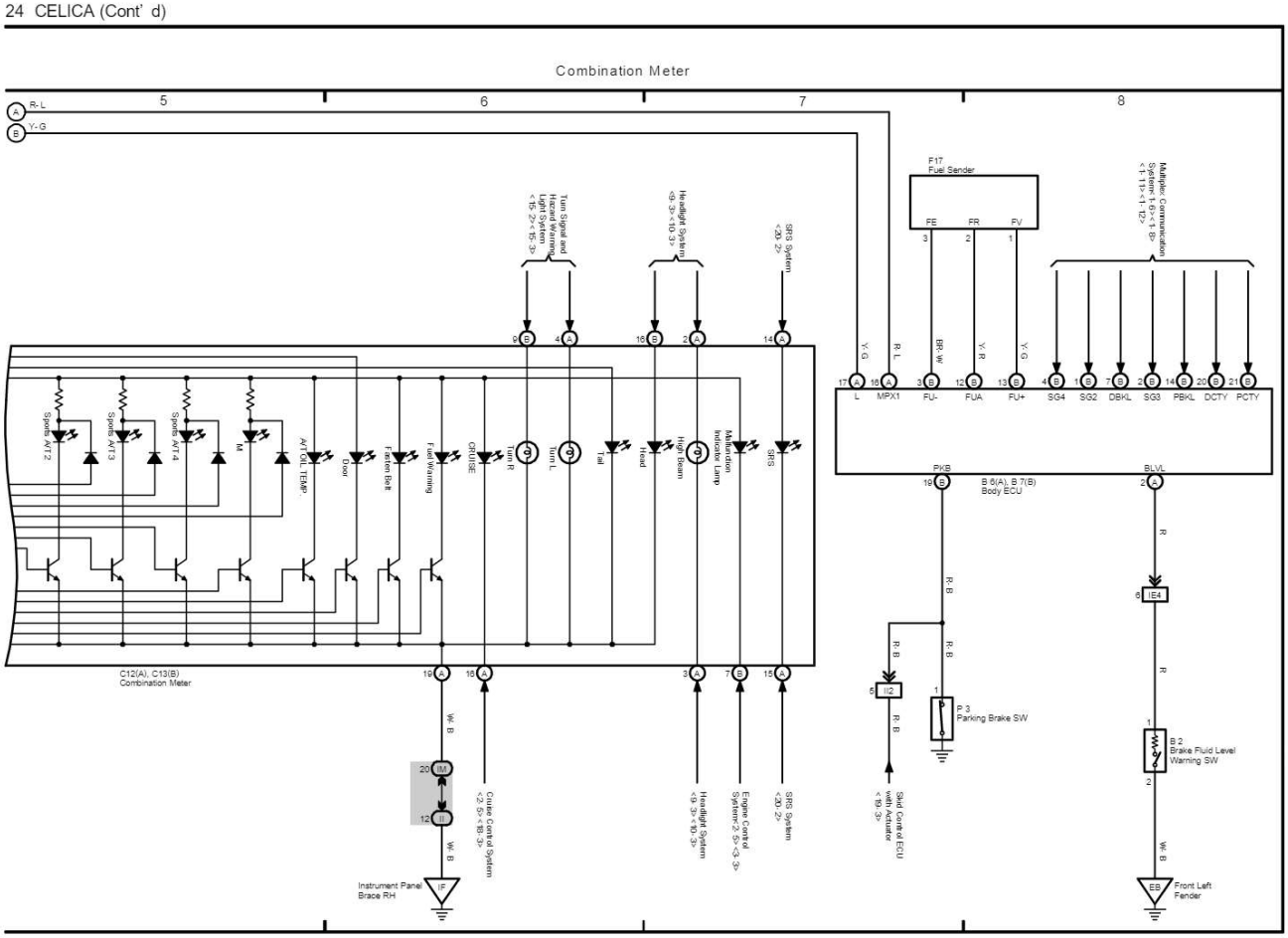

Power Source
Cigarette Lighter
Clock (USA)
Audio System (Built- in Type Amplifier)
1
2
3
4
I10
Ignition SW
ACC
IG1
AM1
15A RADIO
7.5A DOME
25A AM1
15A CIG
7.5A ECU-ACC
25A DCC
120A ALT
FL MAIN
3.0W
Battery
C9
Cigarette Lighter
C10
Clock
J6
Junction
Connector
Combination
Meter <24.4>
Instrument Panel
Brace RH
R 2(A), R 3(B)
Radio and Player
ACC
+B
GND
ANT
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
R 8
Rear Speaker
LH
R 9
Rear Speaker
RH
F15
Front Door
Tweeter
Speaker LH
F16
Front Door
Tweeter
Speaker RH
F13
Front Door Speaker LH
F14
Front Door Speaker RH
Auto Antenna
Control Relay
<23.3>


Power Source
Audio System (Separate Type Amplifier)
1
2
3
4
ACC
IG1
AM1
I10
Ignition SW
7.5A ECU-ACC
15A RADIO
25A AM1
25A D.C.C
100A ALT
2A
FL MAIN
3.0W
Battery
J10
Junction
Connector
Cowl Side
Panel RH
IH
IF2
Auto Antenna Control
Relay<23- 3>
R 4
Radio and Player
ANT
GND
B
ACC
AMP
MUTE
BEEP
F. L
F. R
R. L
R. R
SGND
GND3
S 6(A), S 7(B)
Stereo Component Amplifier
ACC
BU+
AMP+
MUTE
BEEP
FL
FR
RL
RR
GND(S)
RL+
RL-
GND(E)
FL+
FL-
FR+
FR-
RR+
RR-
R 8
Rear Speaker
LH
R 9
Rear Speaker RH
F12
Front Door Speaker LH
F14
Front Door Speaker RH
F 5
Front Door Tweeter Speaker LH
F 6
Front Door Tweeter Speaker RH
(Shielded)
Instrument Panel
Brace RH
IF

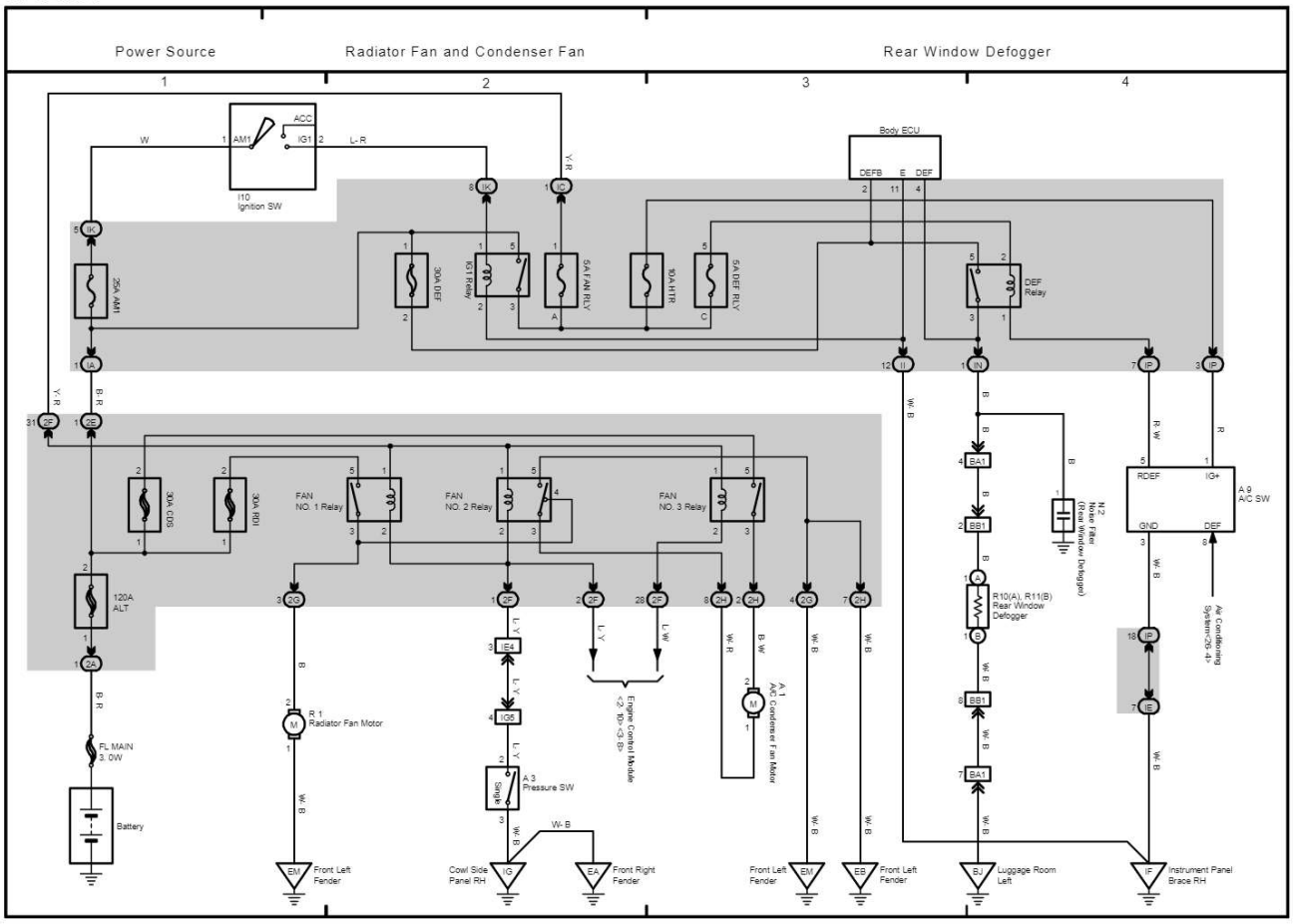

Power Source
Auto Antenna
Clock (Canada)
1
2
3
4
I10
Ignition SW
ACC
IG1
ST1
AM1
25A
AM1
IG1
Relay
5A
TENS
RDC
7.5A
ECU-ACC
7.5A
DOME
25A
DCC
120A
ALT
15A
AUTO
ANTENNA
A21
Auto Antenna Control Relay
ANT
ACC
IG
B
E
C10
Clock
IG+
PSW
SG
TH+
SPD
J8
Junction
Connector
IF2
IF1
IE2
IE4
IE5
FL MAIN
3.0W
Battery
IF
Instrument Panel
Brace RH
J14
Junction
Connector
BJ
Luggage Room
Left
A20
Ambient Temp. Sensor
J10
Junction
Connector
IH
Cowl Side
Panel RH
Radio and Player
<213,3-22,3>
Combination
Meter <24-3>
Combination
Meter <24-4>
Junction Connector

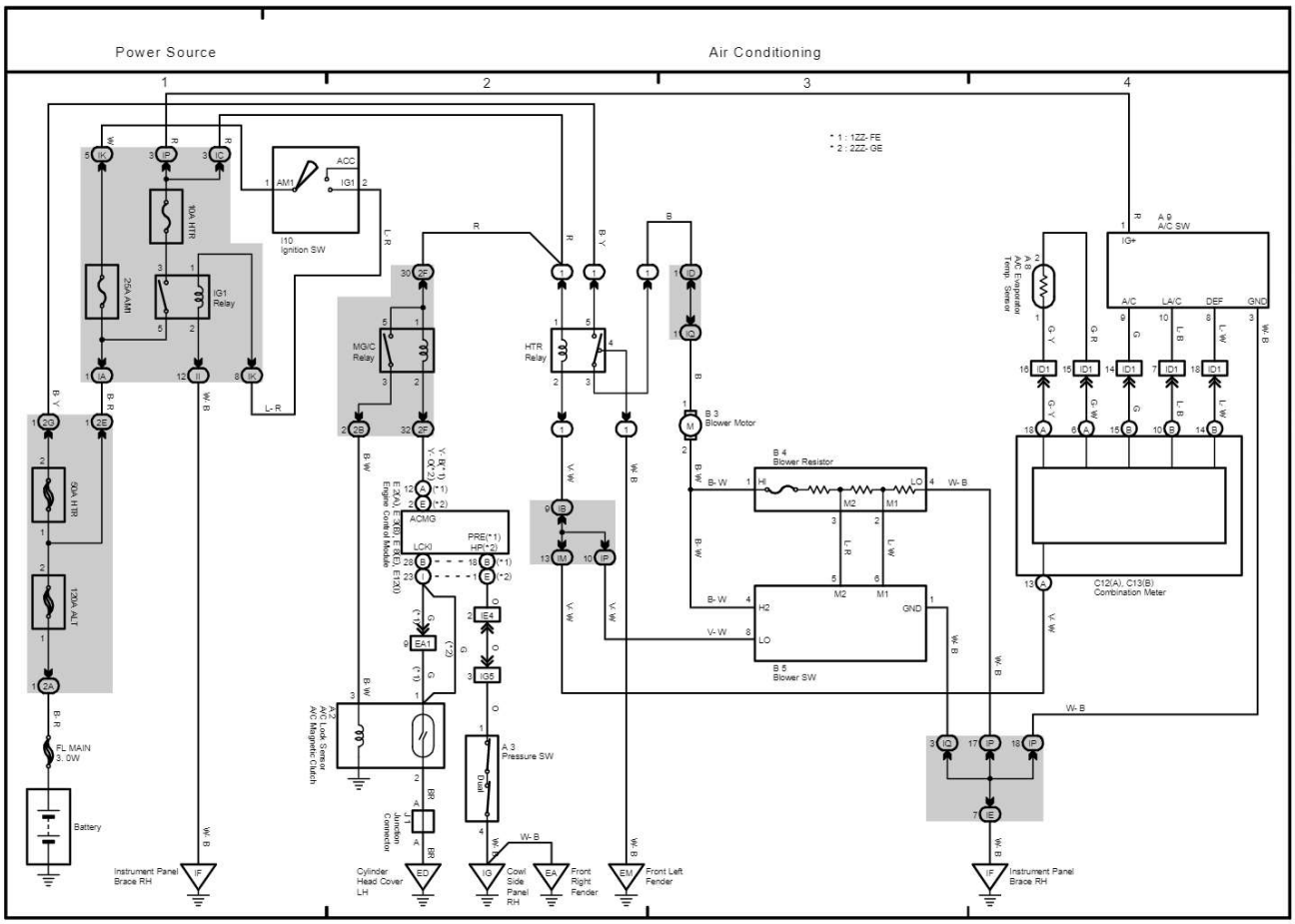
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Combination Meter
5
6
7
8
R-L
Y-G
Turn Signal and Hazard Warning Light System <15-2><15-3>
Headlight System <9-3><10-3>
SRS System <20-2>
F17 Fuel Sender
FE
FR
FV
Multiplex Communication System< 1-6><1-8><1-11><1-12>
Sports AT2
Sports AT3
Sports AT4
M
A/T OIL TEMP
Door
Fasten Belt
Fuel Warning
CRUISE
Turn R
Turn L
Tail
Head
High Beam
Malfunction Indicator Lamp
SRS
L
MPX1
FU-
FUA
FU+
SG4
SG2
DBKL
SG3
PBKL
DCTY
PCTY
C12(A), C13(B) Combination Meter
B 5(A), B 7(B) Body ECU
PKB
BLVL
IE4
P 3 Parking Brake SW
B 2 Brake Fluid Level Warning SW
Skid Control ECU with Actuator <10-3>
Cruise Control System <2-3><10-3>
Headlight System <9-3><10-3>
Engine Control System<2-5><3-3>
SRS System <20-2>
Instrument Panel Brace RH
IF
Front Left Fender
EB

25 CELICA


Power Source
Radiator Fan and Condenser Fan
Rear Window Defogger
1
2
3
4
ACC
AM1
IG1
I10
Ignition SW
W
L-R
Y-R
Body ECU
DEFB
E
DEF
25A AM1
30A DEF
IG1 Relay
5A FAN RLY
10A HTR
5A DEF RLY
DEF Relay
B-R
30A CDS
30A RDI
FAN NO. 1 Relay
FAN NO. 2 Relay
FAN NO. 3 Relay
120A ALT
FL MAIN 5.0W
Battery
R 1 Radiator Fan Motor
A 3 Pressure SW
Engine Control Module <2 ID> <3 ID>
A 1 A/C Condenser Fan Motor
N 2 Noise Filter (Rear Window Defogger)
R10(A), R11(B) Rear Window Defogger
RDEF
IG+
GND
DEF
A 9 A/C SW
Air Conditioning System<2G-4>
Front Left Fender
Cowl Side Panel RH
Front Right Fender
Front Left Fender
Front Left Fender
Luggage Room Left
Instrument Panel Brace RH


Power Source
Air Conditioning
1
2
3
4
* 1 : 1ZZ-FE
* 2 : 2ZZ-GE
ACC
IG1
AM1
I10
Ignition SW
10A HTR
25A AM1
IG1 Relay
MG/C Relay
HTR Relay
50A HTR
30A ALT
FL MAIN
3.0W
Battery
Instrument Panel Brace RH
Cylinder Head Cover LH
Splice Connection
Cowl Side Panel RH
Front Right Fender
Front Left Fender
B 3
Blower Motor
B 4
Blower Resistor
B 5
Blower SW
A 9
A/C SW
IG+
A/C
LA/C
DEF
GND
A 2
A/C Evaporator Temp. Sensor
C12(A), C13(B)
Combination Meter
A 3
Pressure SW
A 2
A/C Lock Sensor
A/C Magnetic Clutch
ACMG
PRE(*1)
HP(*2)
LCK
Engine Control Module
ECM(2ZZ-GE)
ECU-IG(1ZZ-FE)
Hi
LO
M2
M1
GND
H2