2006 xA
ELECTRICAL WIRING DIAGRAM

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.

FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2006 xA.

Applicable models: NCP61 Series

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

Manual Name	Pub. No.
● 2006 SCION xA Repair Manual	RM00D0U
● 2006 SCION New Car Features	NM0060U

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

TOYOTA MOTOR CORPORATION

NOTICE

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

First Printing : Jun. 28, 2005 01–050628–00

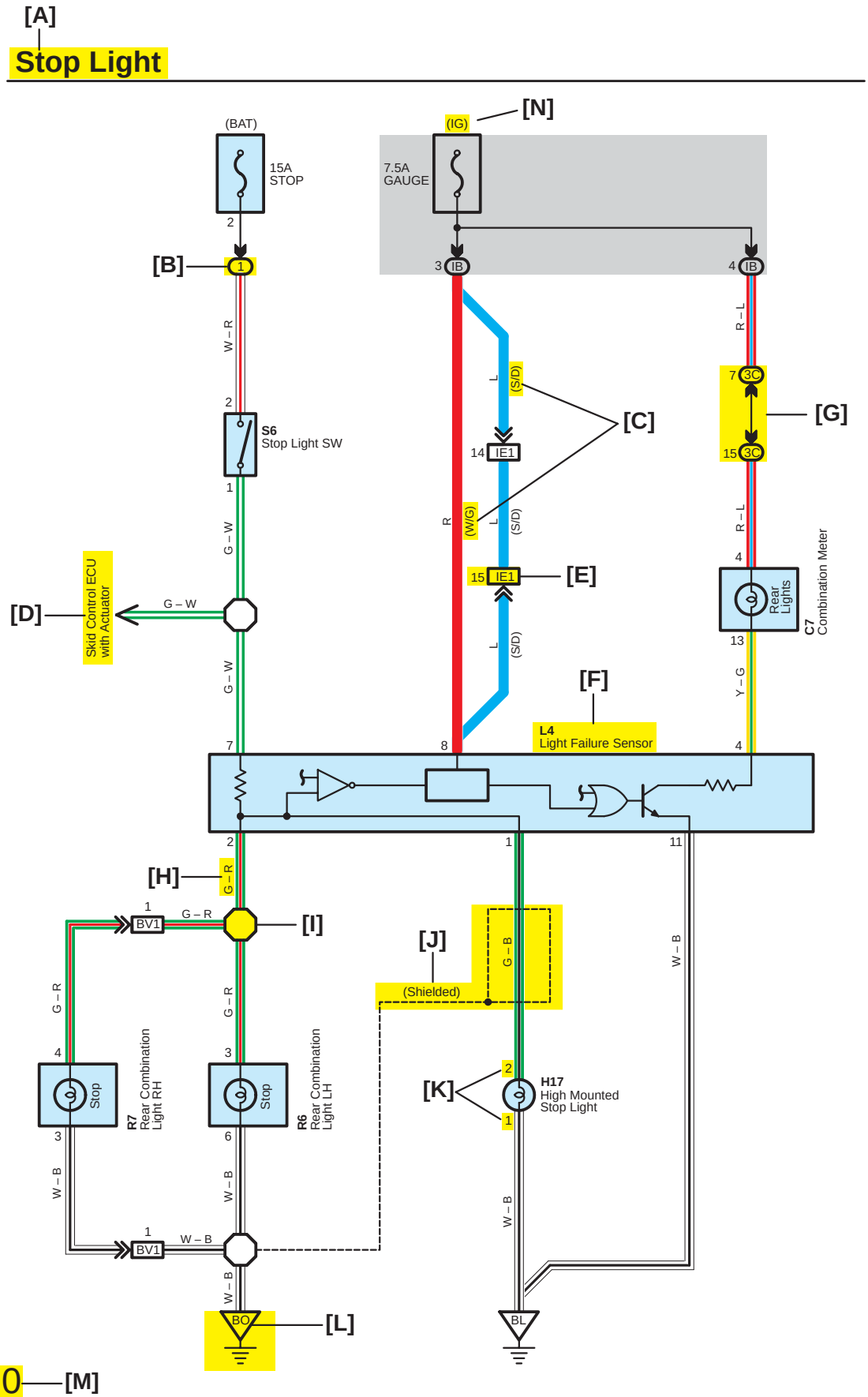
This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

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

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

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

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



[A] : System Title

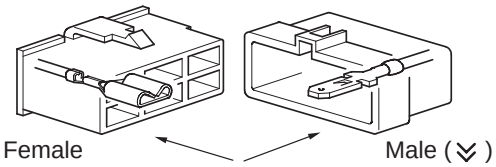
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: (1) Indicates Relay Block No.1

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

[D] : Indicates related system.

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



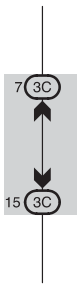
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

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:



3C indicates that it is inside Junction Block No.3

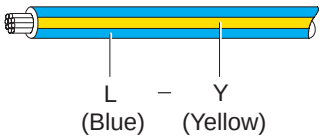
[H] : Indicates the wiring color.

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				

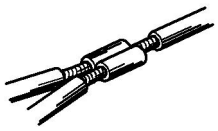
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y



[I] : Indicates a wiring Splice Point

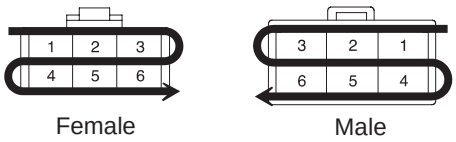
Example:



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

[O] **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.

[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)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
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**

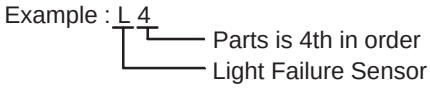
Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
BO	50	Back Panel Center

[O] : Explains the system outline.

[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.

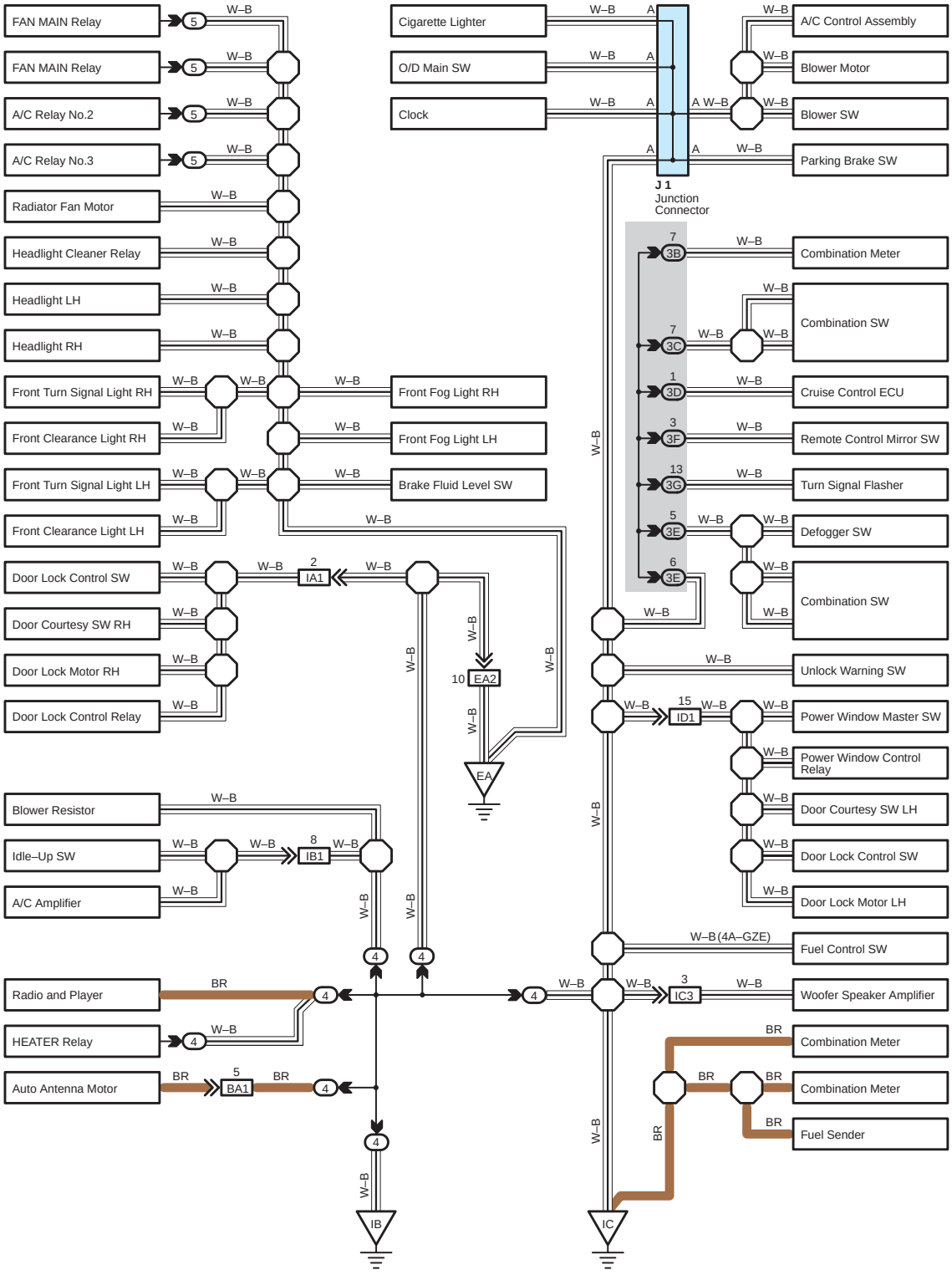
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

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

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

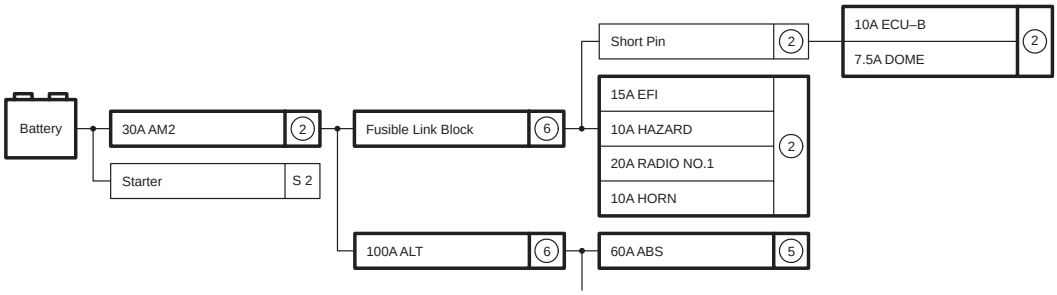


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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)

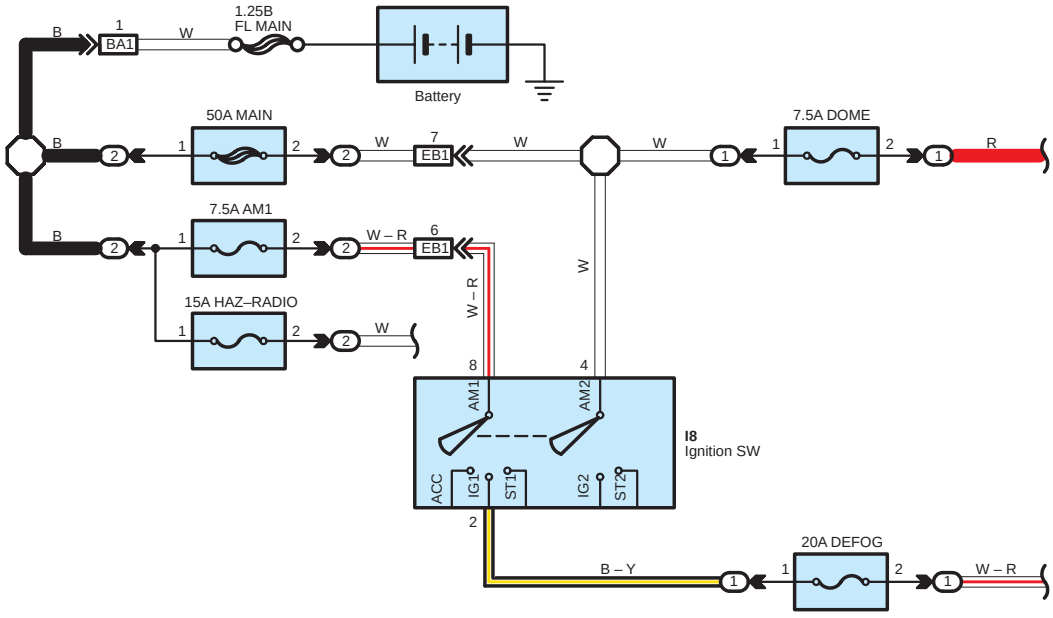
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

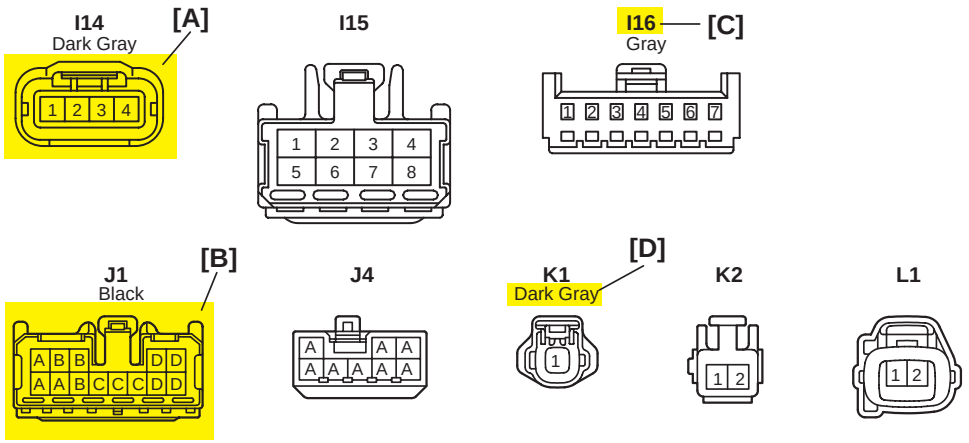
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off System	214 230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

Power Source

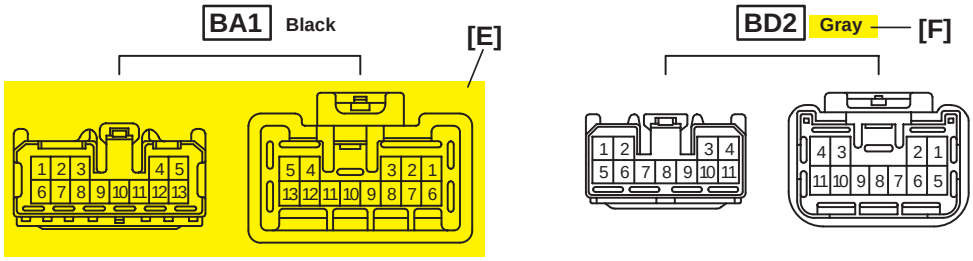


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST

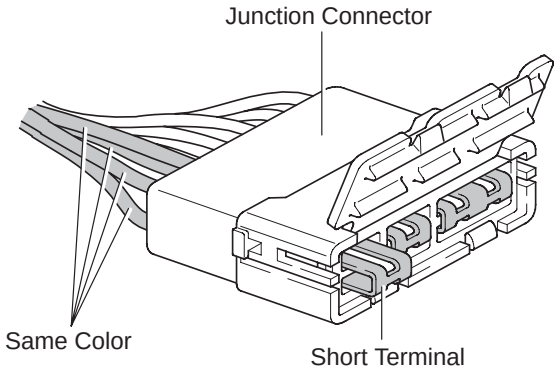


K CONNECTOR LIST



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

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



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

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

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

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
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]	[B]	[C]
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

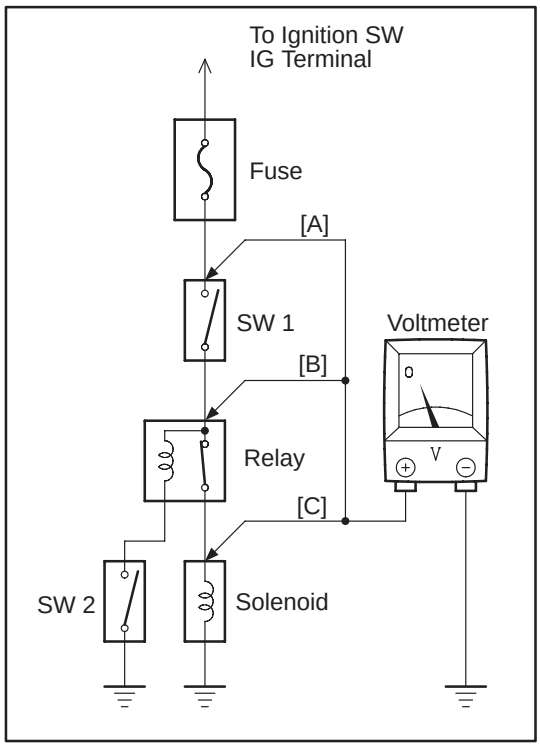
Code	Part Name	Part Number
D 4	Diode (Courtesy)	90980–11608
D 5	Diode (Interior Light)	90980–10962
D 6	Diode (Moon Roof)	90980–11608
D 7	Door Lock Control Relay	90980–10848
D 8	Door Lock Control SW LH	90980–11148
D 9	Door Lock Control SW RH	
D10	Door Courtesy SW LH	90980–11097
D11	Door Courtesy SW RH	
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	and Unlock SW LH	90980–11170
	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.

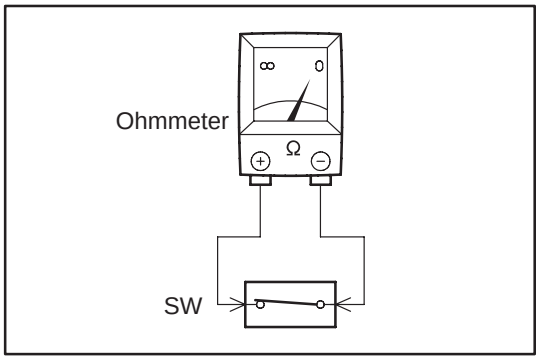


VOLTAGE CHECK

(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)

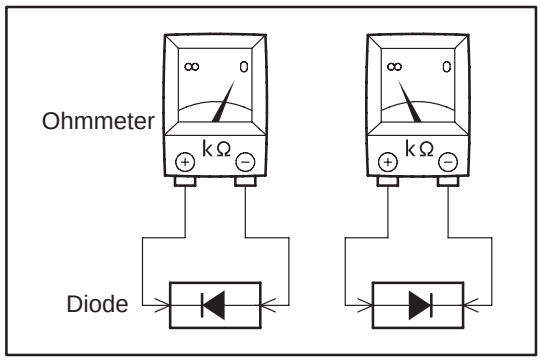
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



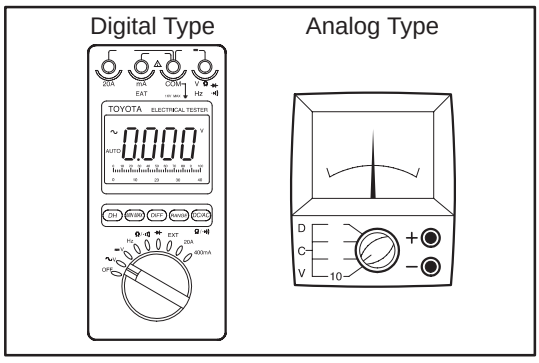
CONTINUITY AND RESISTANCE CHECK

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

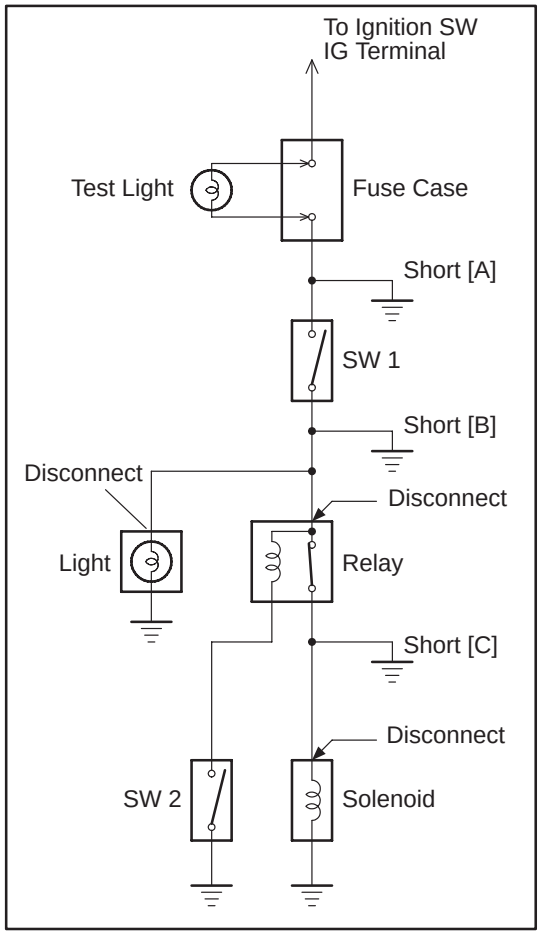
(b) Contact the two leads of an ohmmeter to each of the check points.



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:

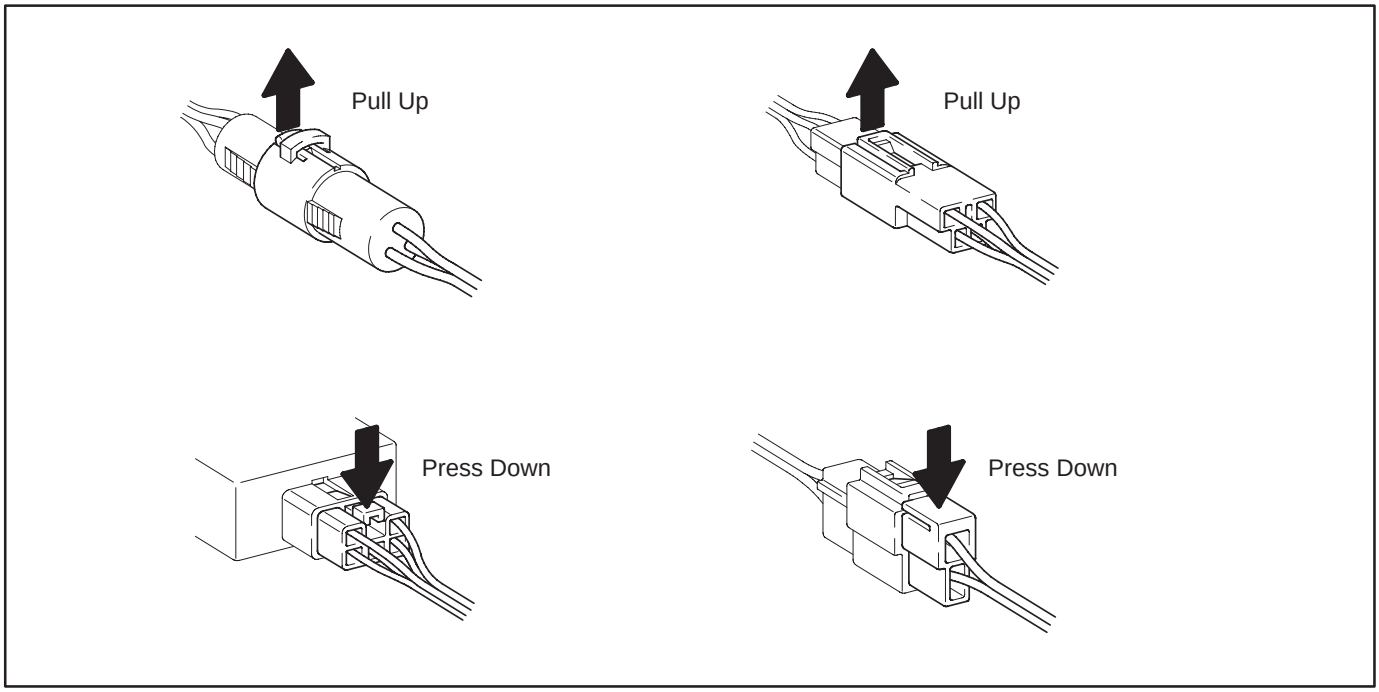
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

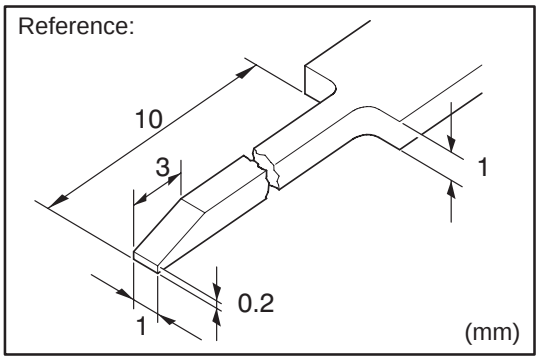
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

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.



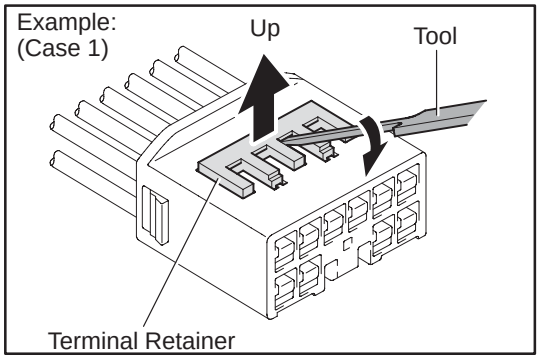


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

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

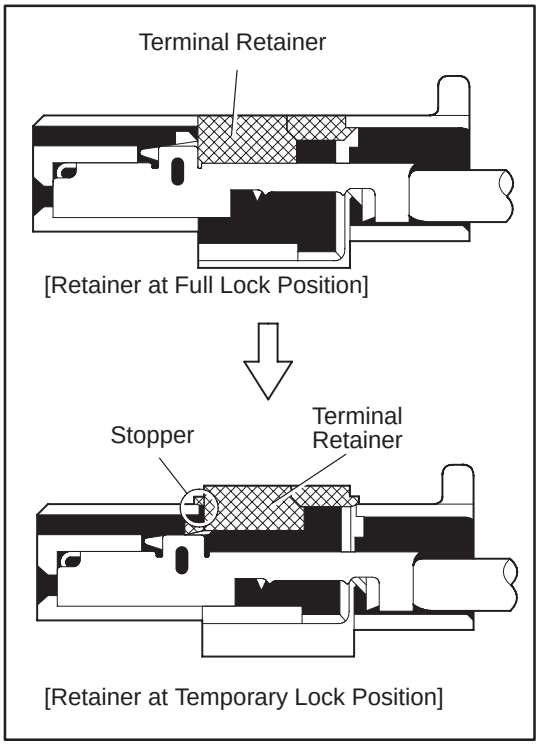


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

   (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.

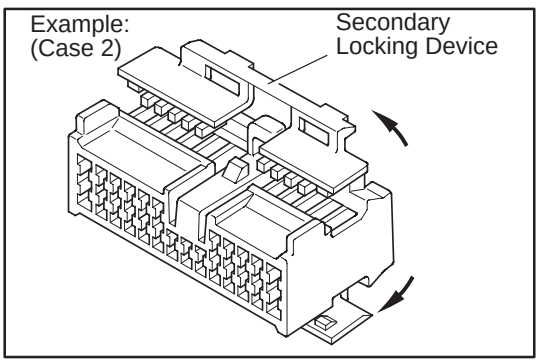


[A] For Non–Waterproof Type Connector

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

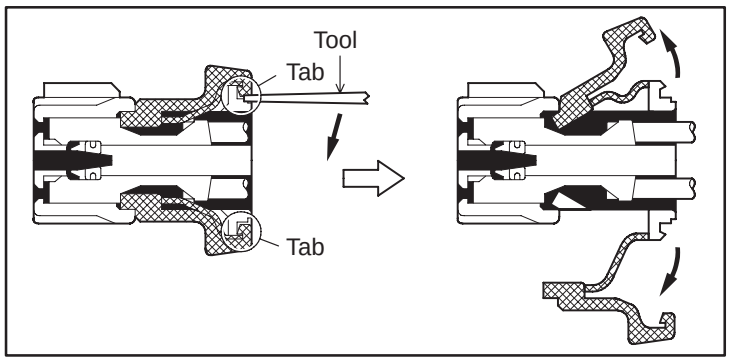
"Case 1"

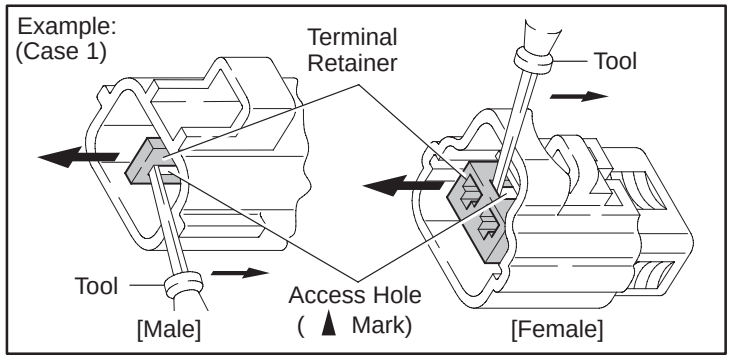
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.



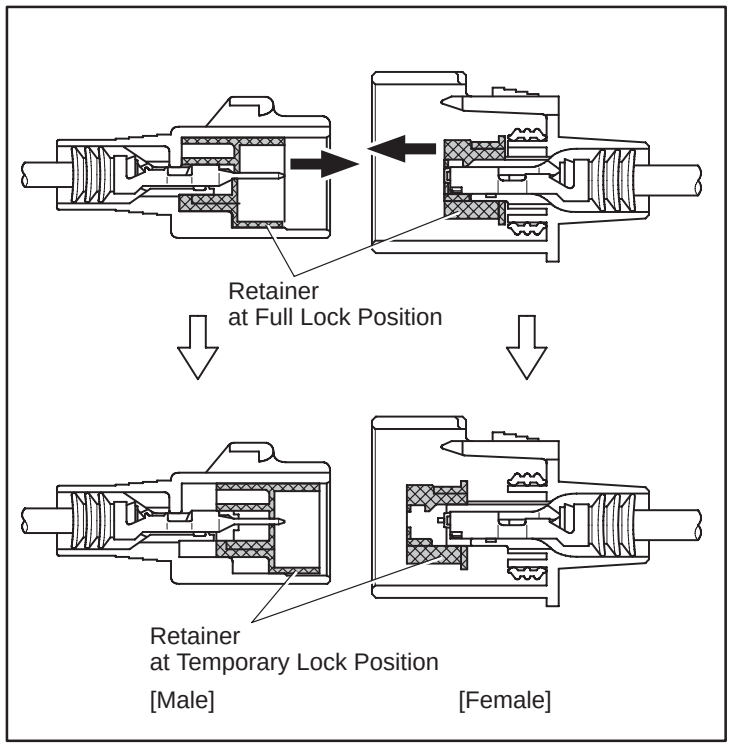


[B] For Waterproof Type Connector

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

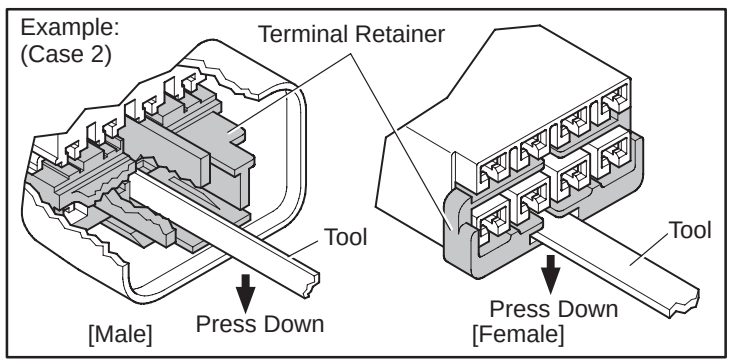


”Case 1”

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

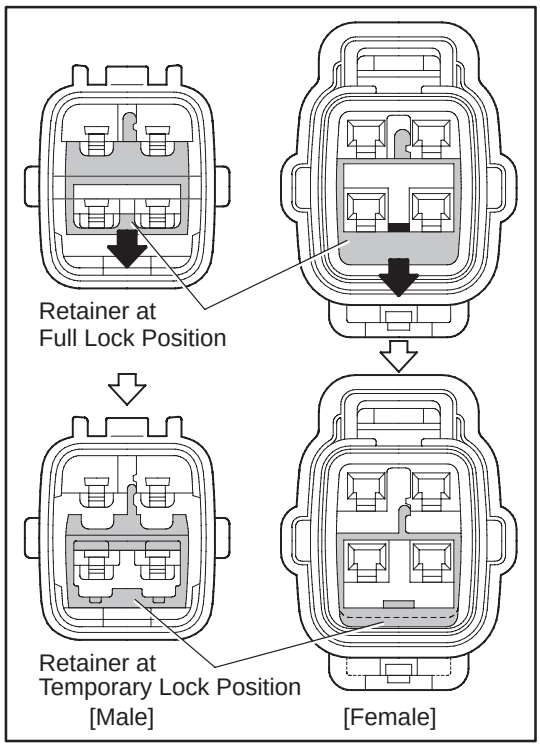
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

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

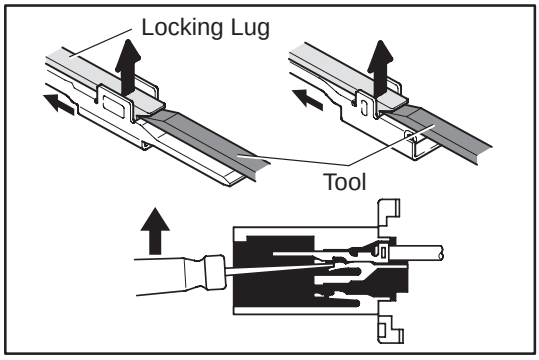


”Case 2”

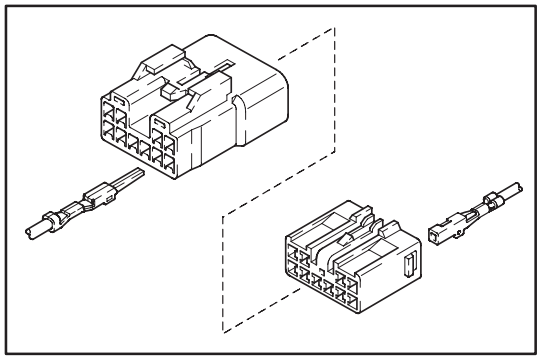
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



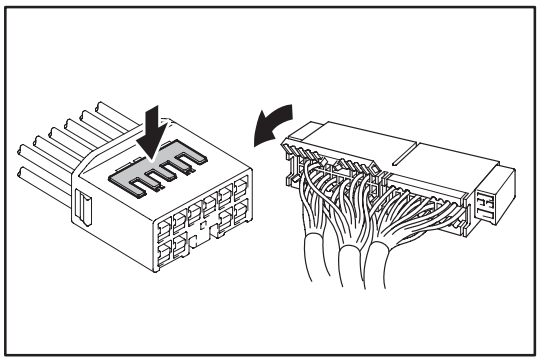
(c) Release the locking lug from terminal and pull the terminal out from rear.



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

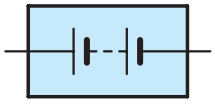
ABBREVIATIONS

The following abbreviations are used in this manual.

A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
CAN	=	Controller Area Network
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
IAC	=	Idle Air Control
IC	=	Integrated Circuit
INT	=	Intermittent
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left–Hand
M/T	=	Manual Transaxle
O/D	=	Overdrive
PTC	=	Positive Temperature Coefficient
R/B	=	Relay Block
RH	=	Right–Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
TVIP	=	TOYOTA Vehicle Intrusion Protection
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
w/	=	With
w/o	=	Without

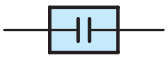
* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

E GLOSSARY OF TERMS AND SYMBOLS



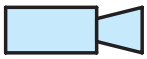
BATTERY

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



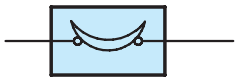
CAPACITOR (Condenser)

A small holding unit for temporary storage of electrical voltage.



CIGARETTE LIGHTER

An electric resistance heating element.



CIRCUIT BREAKER

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

DIODE

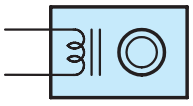
A semiconductor which allows current flow in only one direction.

DIODE, ZENER

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

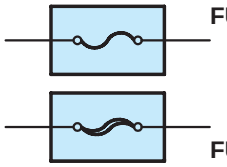
PHOTODIODE

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



DISTRIBUTOR, IIA

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



(for Medium Current Fuse)

(for High Current Fuse or Fusible Link)

FUSE

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

FUSIBLE LINK

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

GROUND

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

1. SINGLE FILAMENT

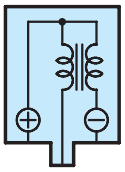
2. DOUBLE FILAMENT

HEADLIGHTS

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

HORN

An electric device which sounds a loud audible signal.



IGNITION COIL

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

LIGHT

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

LED (LIGHT EMITTING DIODE)

Upon current flow, these diodes emit light without producing the heat of a comparable light.

METER, ANALOG

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

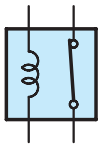
METER, DIGITAL

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

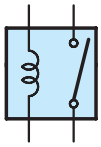
MOTOR

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

RELAY



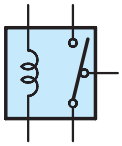
1. NORMALLY CLOSED



2. NORMALLY OPEN

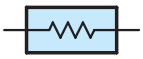
Basically, an electrically operated switch which may be normally closed (1) or open (2).
Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.

RELAY, DOUBLE THROW



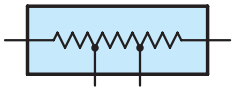
A relay which passes current through one set of contacts or the other.

RESISTOR



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

RESISTOR, TAPPED

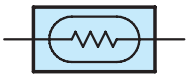


A resistor which supplies two or more different non adjustable resistance values.

RESISTOR, VARIABLE or RHEOSTAT

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

SENSOR (Thermistor)



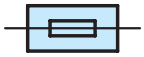
A resistor which varies its resistance with temperature.

SENSOR, SPEED

(Reed Switch Type)

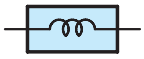
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

SHORT PIN



Used to provide an unbroken connection within a junction block.

SOLENOID

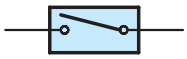


An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

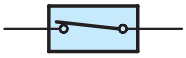
SPEAKER

An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



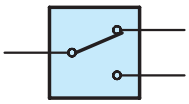
1. NORMALLY OPEN



2. NORMALLY CLOSED

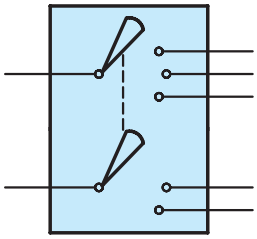
Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

SWITCH, DOUBLE THROW



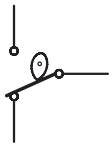
A switch which continuously passes current through one set of contacts or the other.

SWITCH, IGNITION



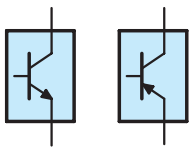
A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.

SWITCH, WIPER PARK



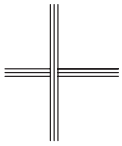
Automatically returns wipers to the stop position when the wiper switch is turned off.

TRANSISTOR

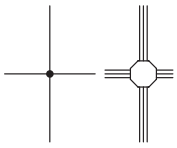


A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at ”base”.

WIRES



(1) NOT CONNECTED

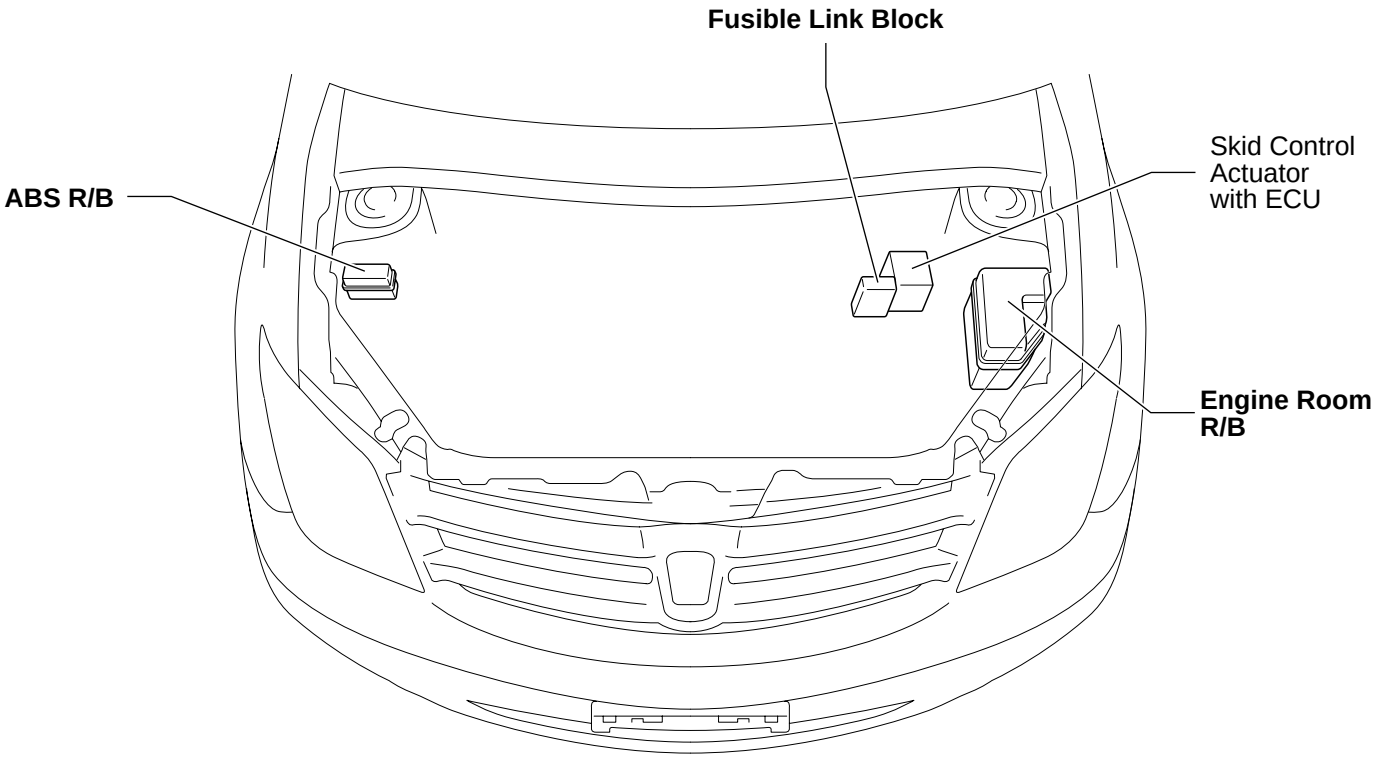


(2) SPLICED

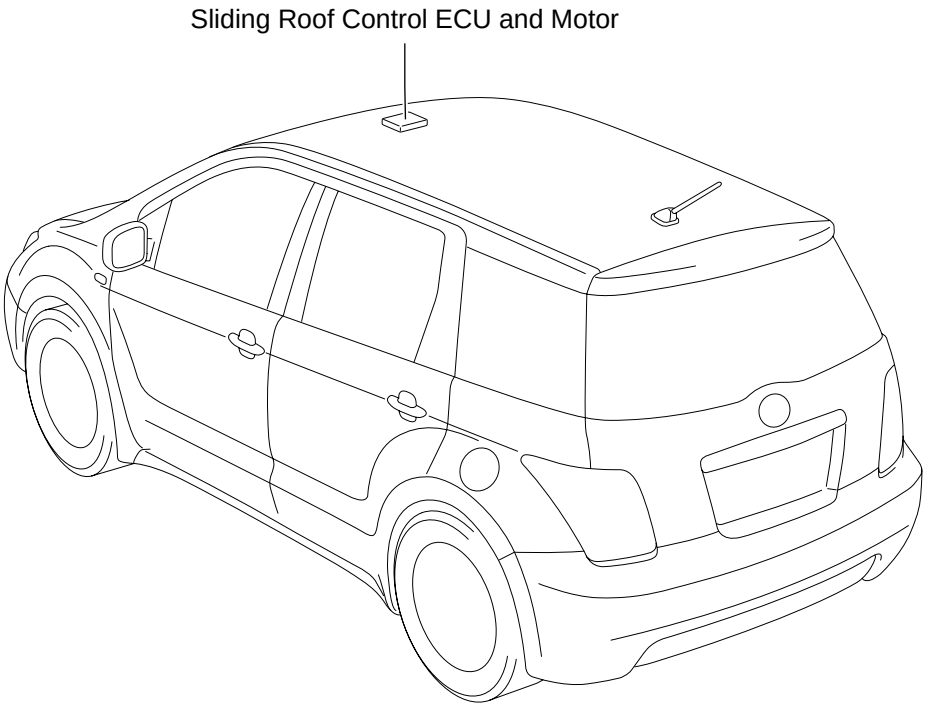
Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (⬡) mark at the junction are spliced (joined) connections.

F RELAY LOCATIONS

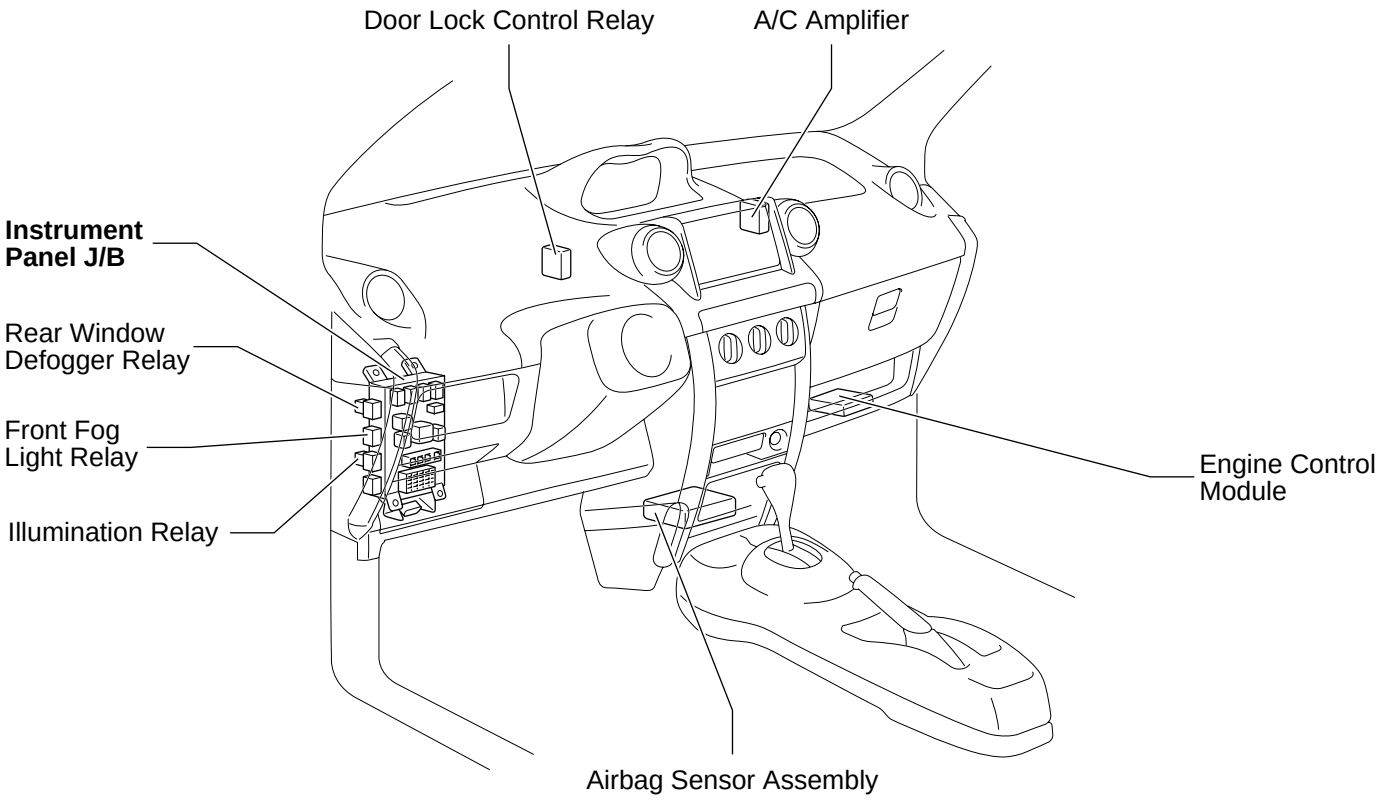
[Engine Compartment]



[Body]



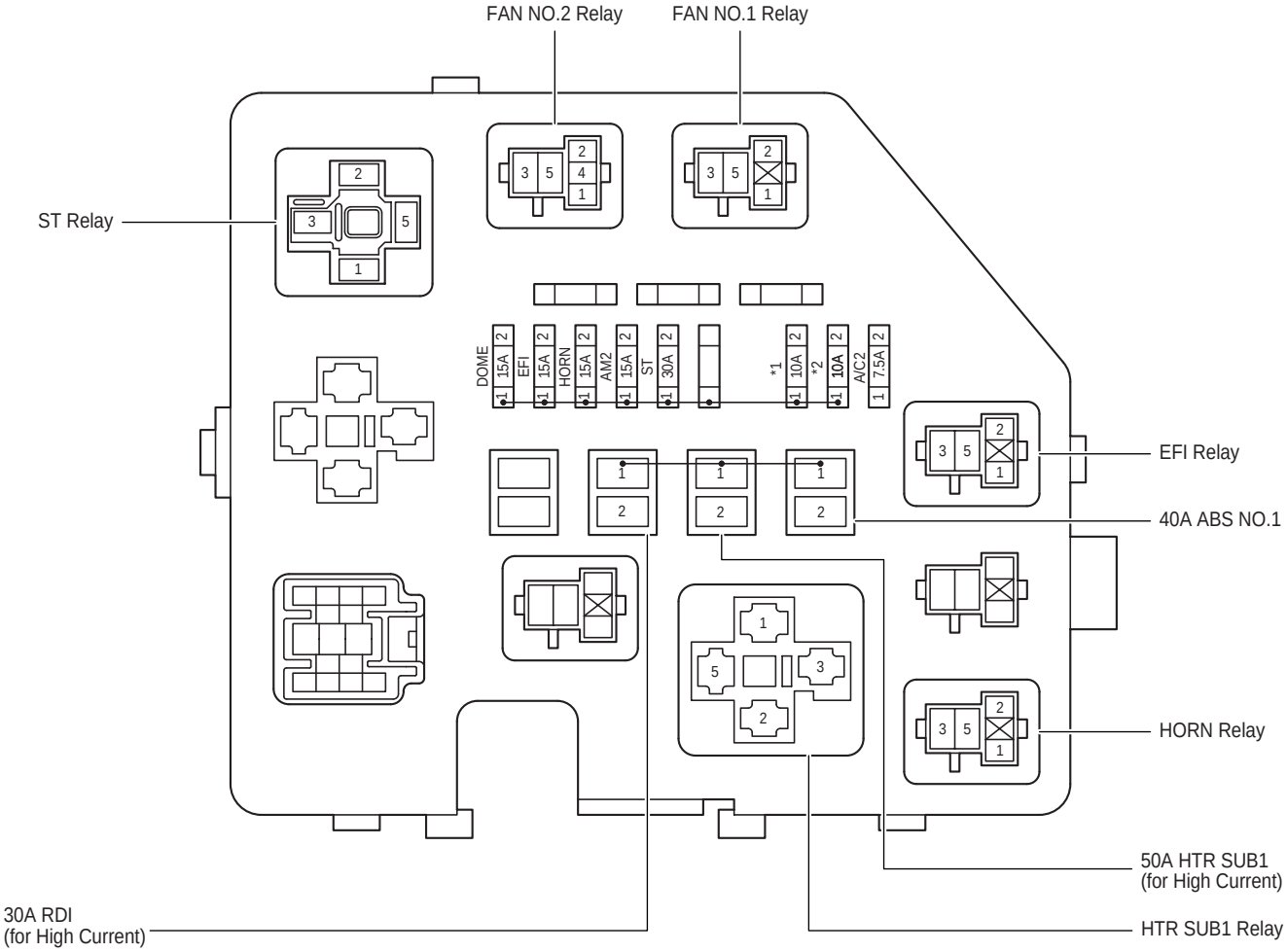
[Instrument Panel]



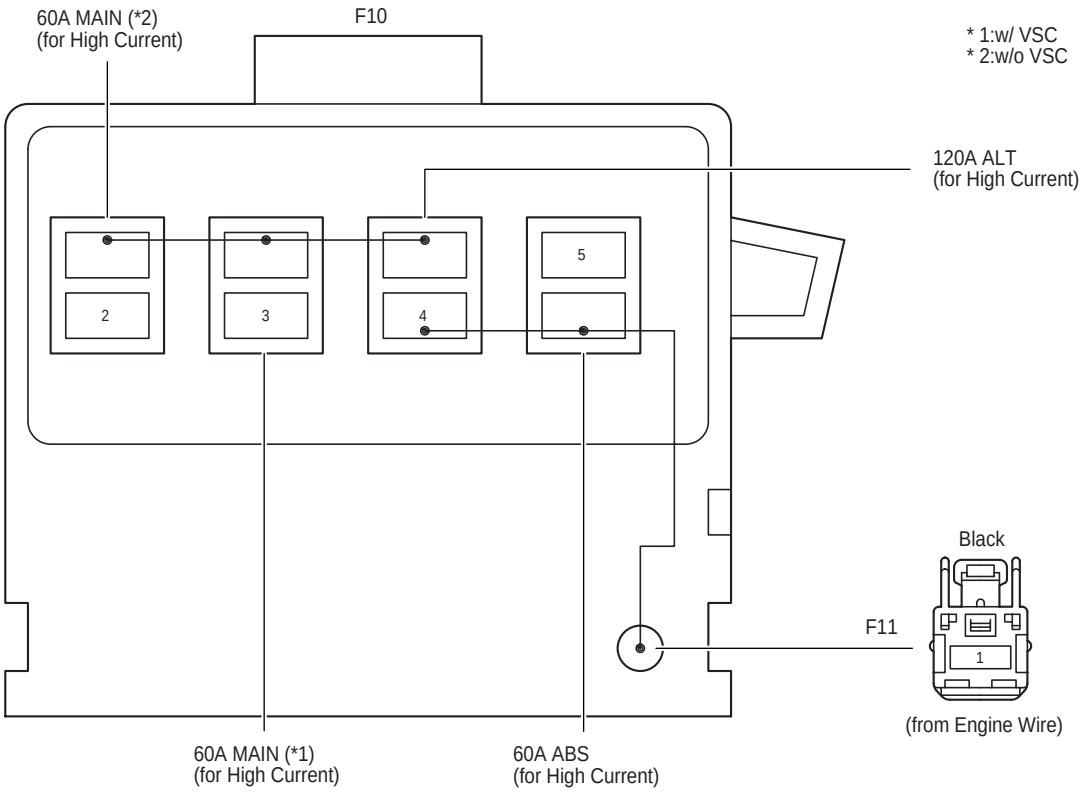
F RELAY LOCATIONS

② : Engine Room R/B	Engine Compartment Left (See Page 20)

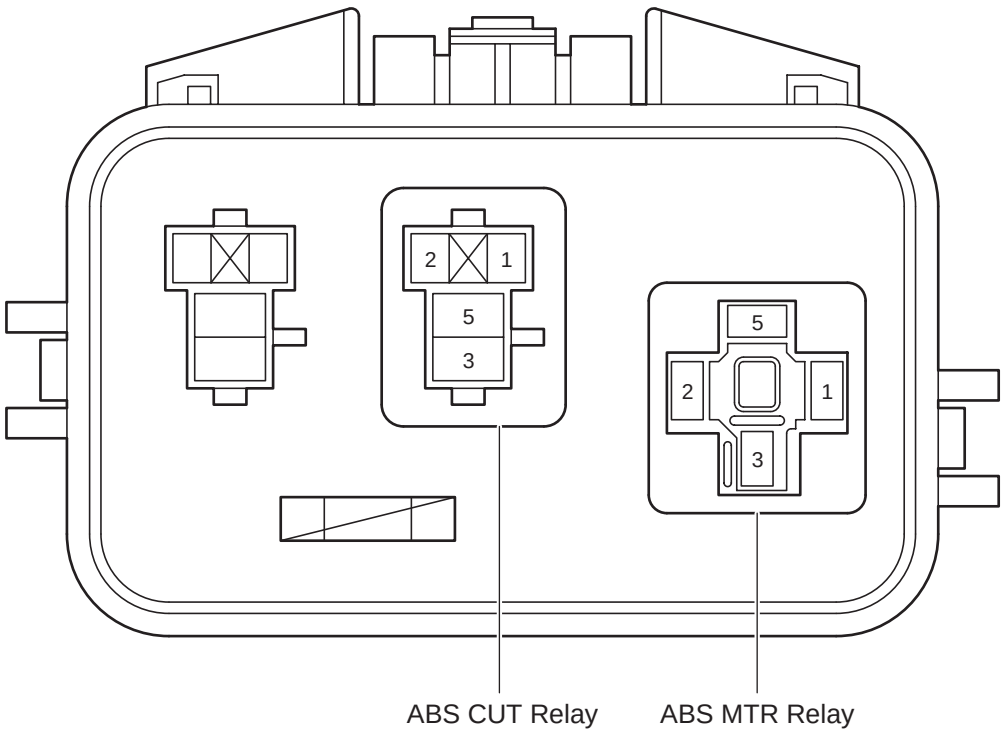
* 1:H-LP LH / H-LP LO LH
* 2:H-LP RH / H-LP LO RH



Fusible Link Block	Engine Compartment Left (See Page 20)

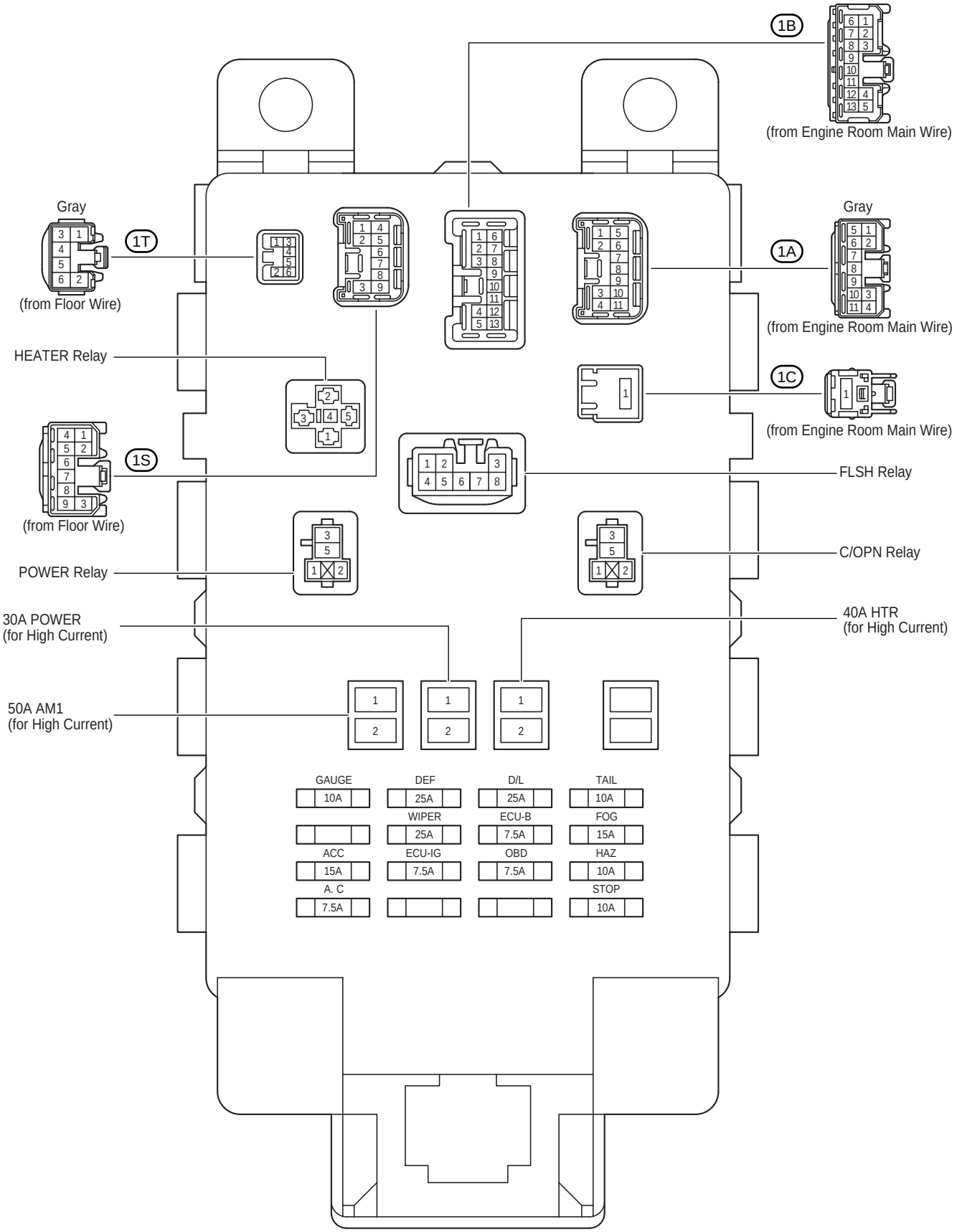


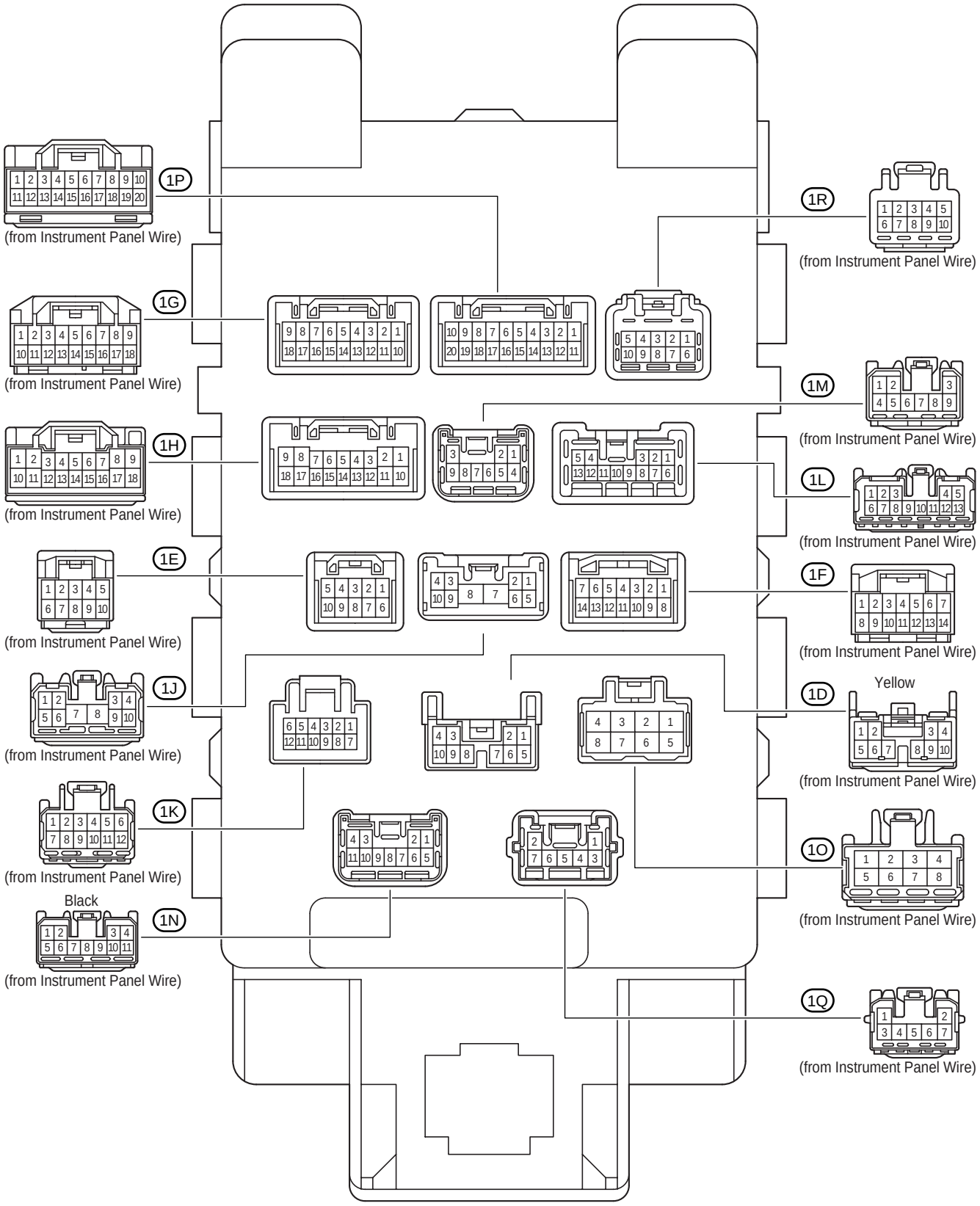
③ : ABS R/B	Engine Compartment Right (See Page 20)



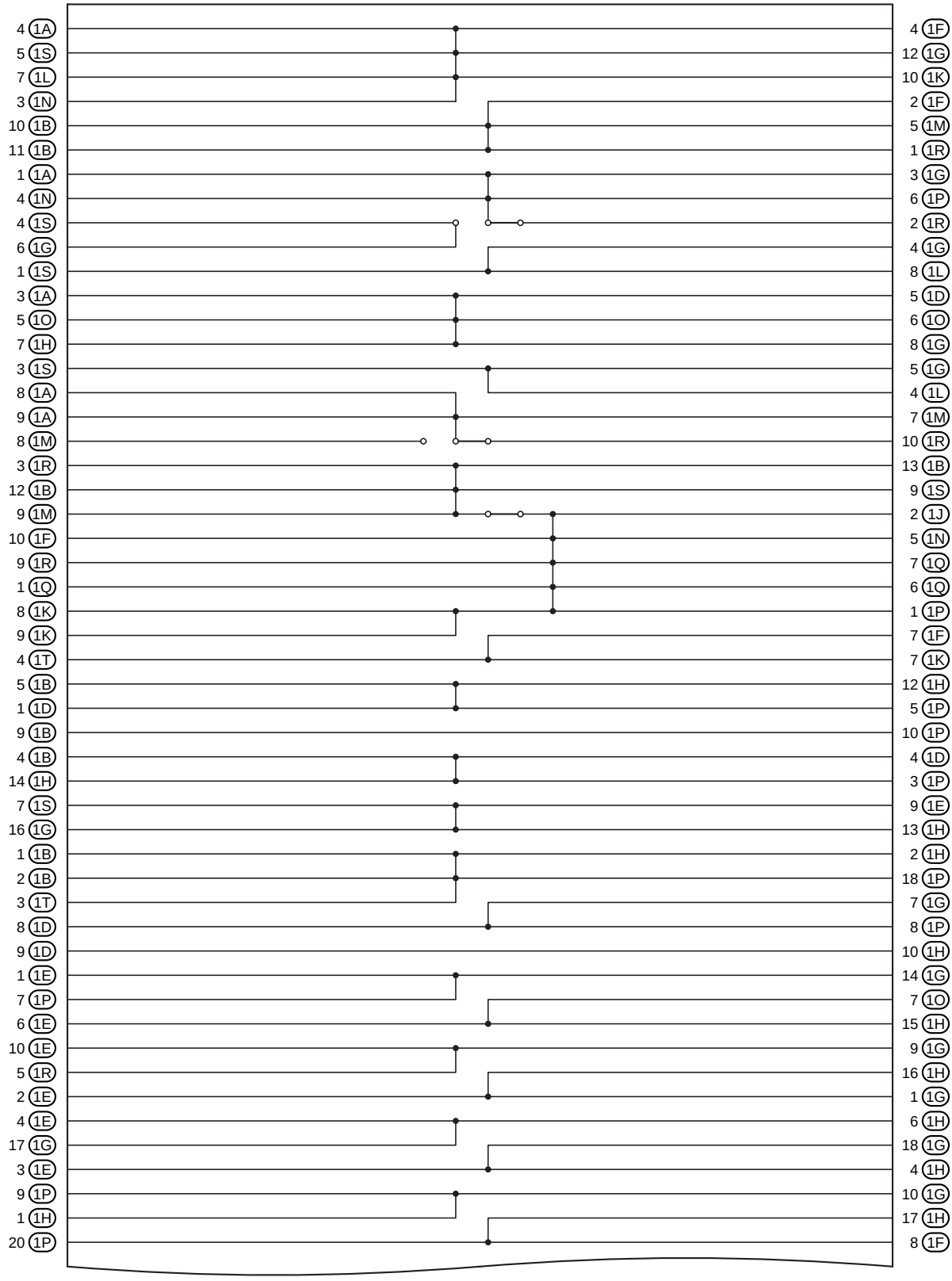
F RELAY LOCATIONS

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



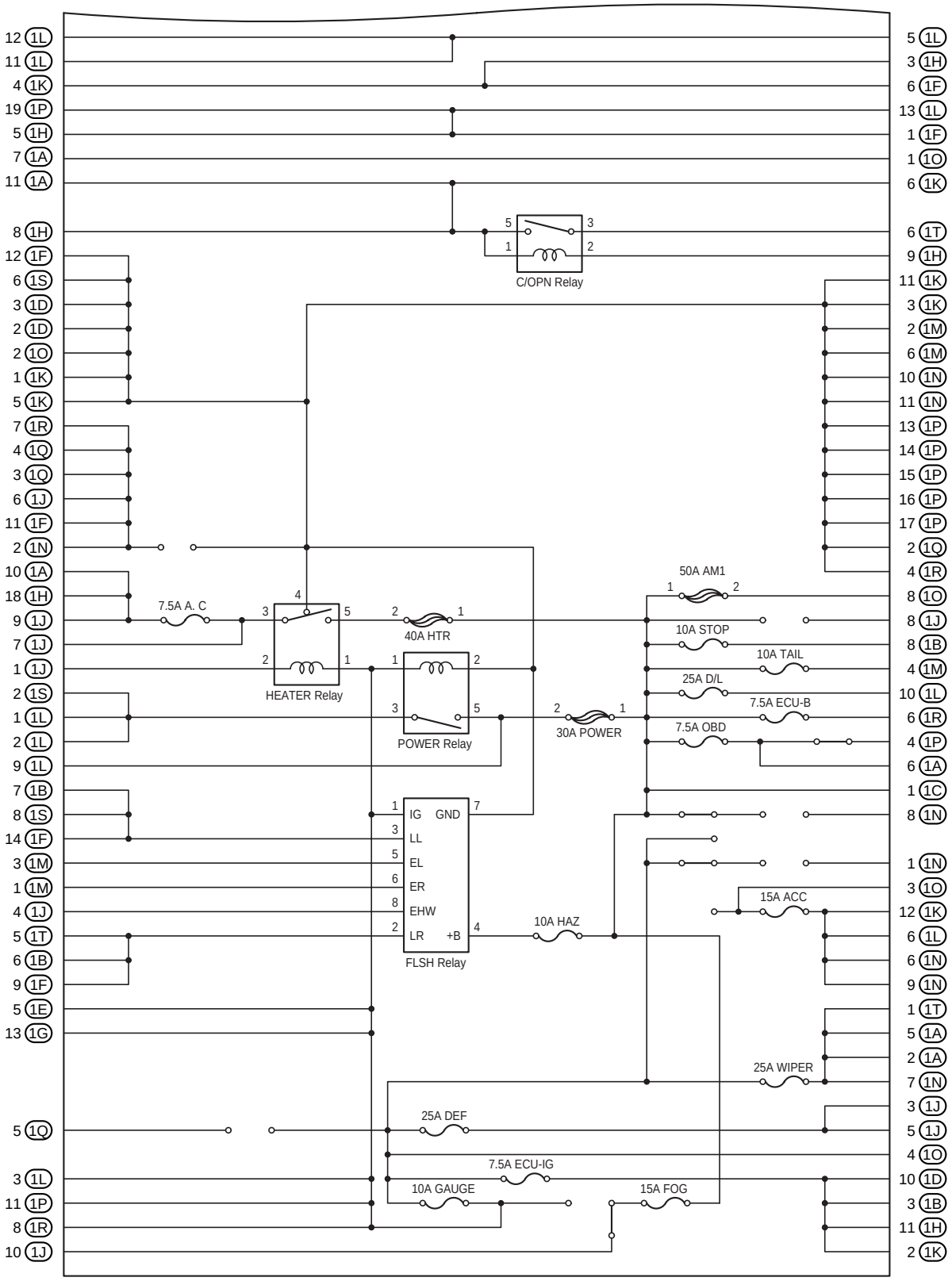

1P
(from Instrument Panel Wire)
1R
(from Instrument Panel Wire)
1G
(from Instrument Panel Wire)
1M
(from Instrument Panel Wire)
1H
(from Instrument Panel Wire)
1L
(from Instrument Panel Wire)
1E
(from Instrument Panel Wire)
1F
(from Instrument Panel Wire)
1J
(from Instrument Panel Wire)
Yellow
1D
(from Instrument Panel Wire)
1K
(from Instrument Panel Wire)
1O
(from Instrument Panel Wire)
Black
1N
(from Instrument Panel Wire)
1Q
(from Instrument Panel Wire)

[Instrument Panel J/B Inner Circuit]

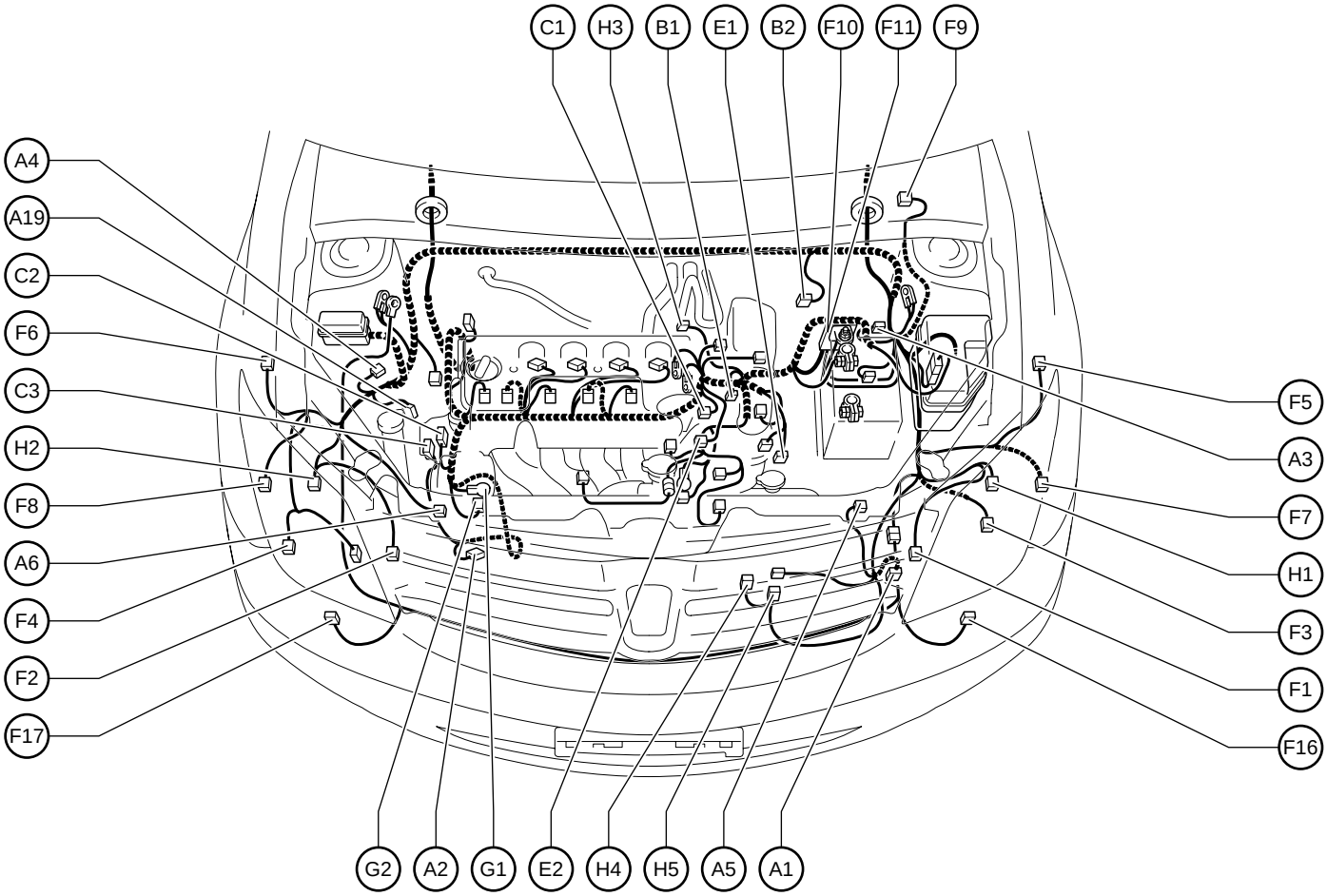


(Cont. next page)

(Cont'd)


12 1L
11 1L
4 1K
19 1P
5 1H
7 1A
11 1A
8 1H
12 1F
6 1S
3 1D
2 1D
2 1O
1 1K
5 1K
7 1R
4 1Q
3 1Q
6 1J
11 1F
2 1N
10 1A
18 1H
9 1J
7 1J
1 1J
2 1S
1 1L
2 1L
9 1L
7 1B
8 1S
14 1F
3 1M
1 1M
4 1J
5 1T
6 1B
9 1F
5 1E
13 1G
5 1Q
3 1L
11 1P
8 1R
10 1J
5 1L
3 1H
6 1F
13 1L
1 1F
1 1O
6 1K
6 1T
9 1H
11 1K
3 1K
2 1M
6 1M
10 1N
11 1N
13 1P
14 1P
15 1P
16 1P
17 1P
2 1Q
4 1R
8 1O
8 1J
8 1B
4 1M
10 1L
6 1R
4 1P
6 1A
1 1C
8 1N
1 1N
3 1O
12 1K
6 1L
6 1N
9 1N
1 1T
5 1A
2 1A
7 1N
3 1J
5 1J
4 1O
10 1D
3 1B
11 1H
2 1K
C/OPN Relay
7.5A A. C
HEATER Relay
40A HTR
POWER Relay
30A POWER
50A AM1
10A STOP
10A TAIL
25A D/L
7.5A ECU-B
7.5A OBD
IG
GND
LL
EL
ER
EHW
LR
+B
FLSH Relay
10A HAZ
15A ACC
25A WIPER
25A DEF
7.5A ECU-IG
10A GAUGE
15A FOG

Position of Parts in Engine Compartment



A 1 A/C Condenser Fan Resistor
A 2 A/C Magnetic Valve
A 3 ABS Speed Sensor Front LH
A 4 ABS Speed Sensor Front RH
A 5 Airbag Sensor Front LH
A 6 Airbag Sensor Front RH
A19 A/C 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
C 3 Crankshaft Position Sensor

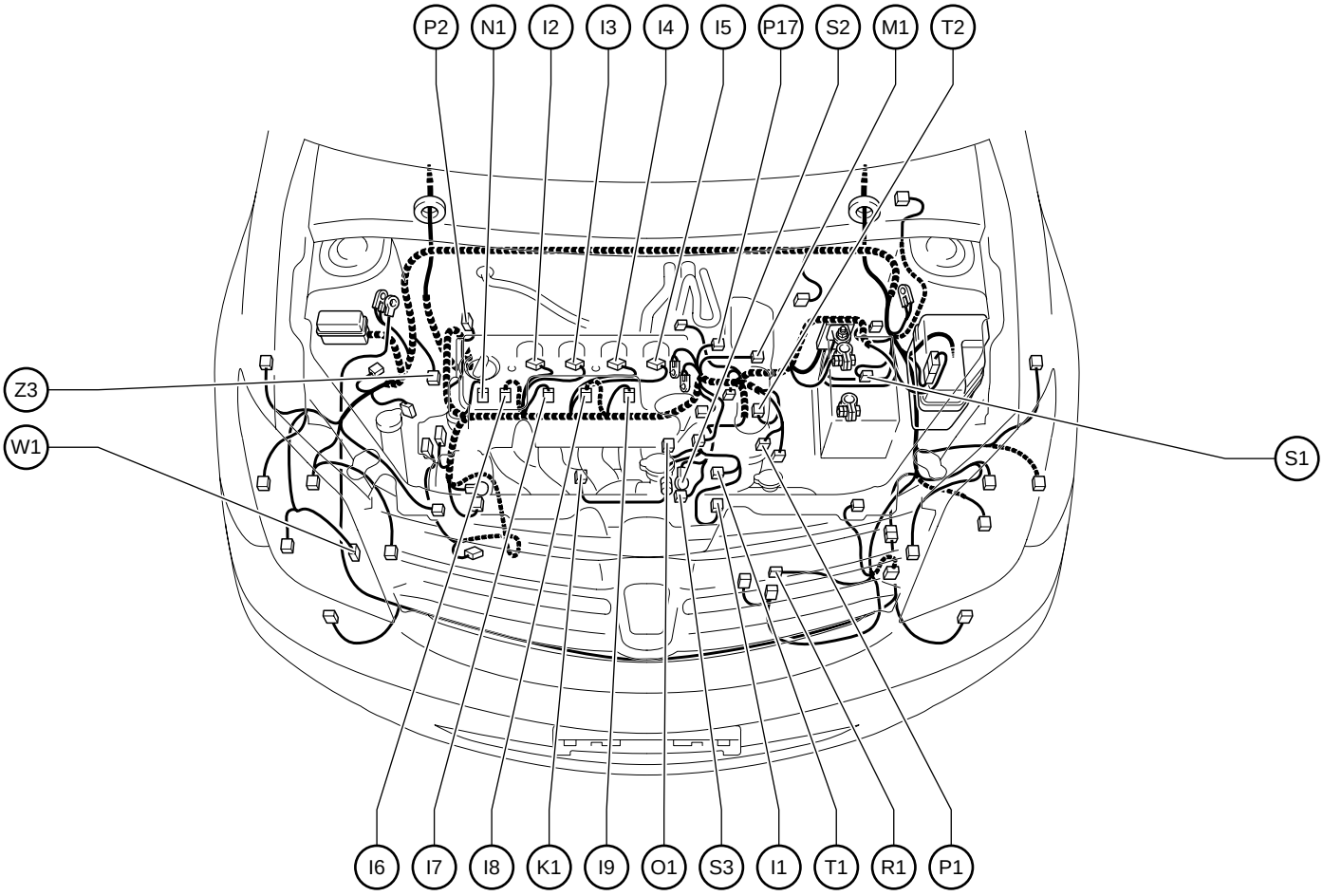
E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Coolant Temp. Sensor

F 1 Front Parking Light LH
F 2 Front Parking Light RH
F 3 Front Side Marker Light LH
F 4 Front Side Marker Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Wiper Motor
F10 Fusible Link Block
F11 Fusible Link Block
F16 Front Fog Light LH
F17 Front Fog Light RH

G 1 Generator
G 2 Generator

H 1 Headlight LH
H 2 Headlight RH
H 3 Heated Oxygen Sensor (Bank 1 Sensor 1)
H 4 Horn (High)
H 5 Horn (Low)

Position of Parts in Engine Compartment



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

K 1 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition)

O 1 Oil Pressure SW

P 1 Park/Neutral Position SW
P 2 Power Steering Oil Pressure Sensor
P17 VSV (Purge)

R 1 Radiator Fan Motor

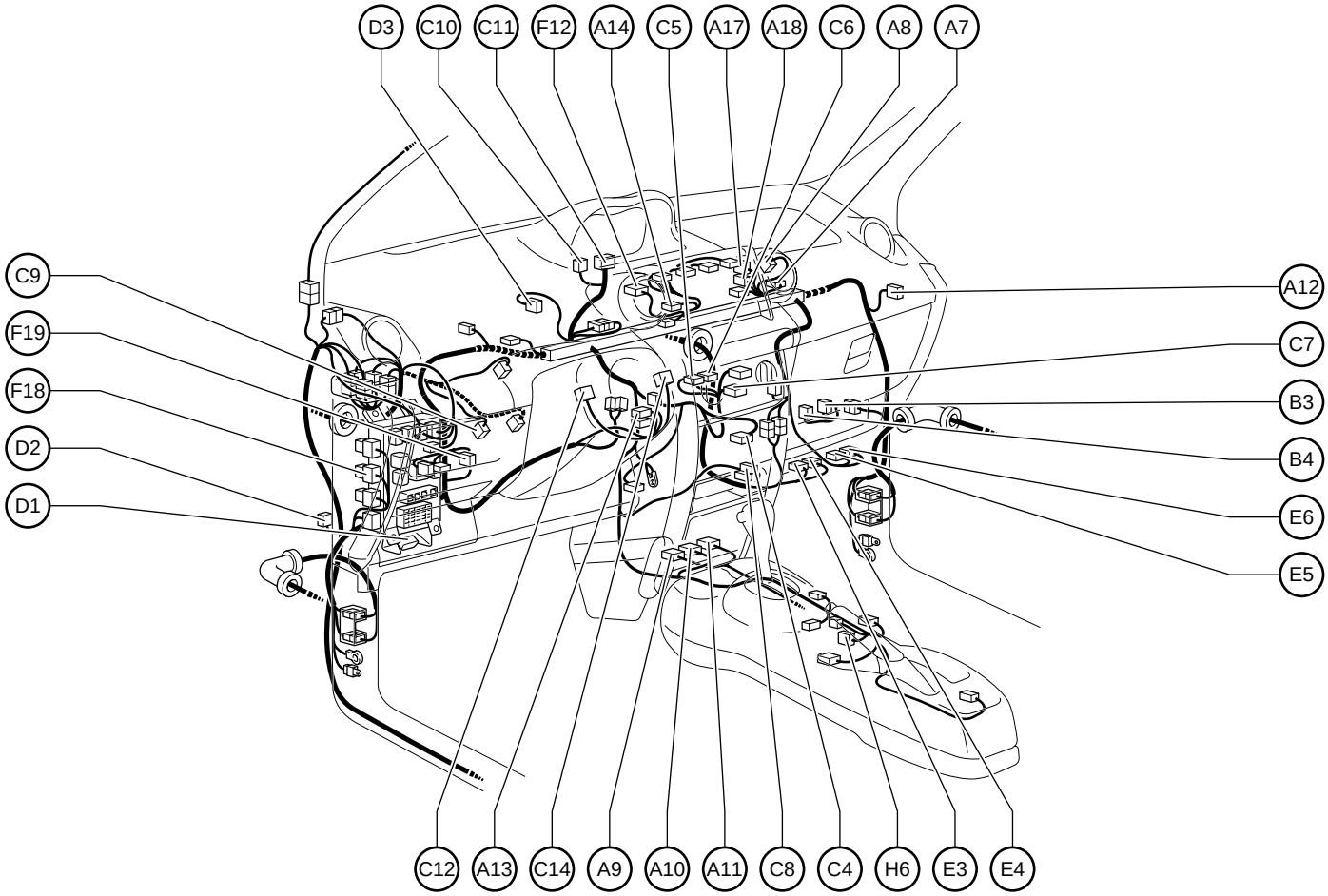
S 1 Skid Control Actuator with ECU
S 2 Starter
S 3 Starter

T 1 Throttle Position Sensor
T 2 Turbine Speed Sensor

W 1 Washer Motor

Z 3 Option Connector (TVIP Siren)

Position of Parts in Instrument Panel



A 7 A/C Thermistor
A 8 Air Inlet Control Servo Motor
A 9 Airbag Sensor Assembly
A10 Airbag Sensor Assembly
A11 Airbag Sensor Assembly
A12 Airbag Squib (Front Passenger Airbag Assembly)
A13 Airbag Squib (Steering Wheel Pad)
A14 Antenna Amplifier
A17 A/C Amplifier
A18 A/C Amplifier

B 3 Blower Motor
B 4 Blower Resistor

C 4 Center Cluster Box Illumination
C 5 Center Cluster SW
C 6 Center Cluster SW
C 7 Center Cluster SW
C 8 Cigarette Lighter
C 9 Clutch Start SW
C10 Combination Meter
C11 Combination Meter
C12 Combination SW
C14 Combination SW

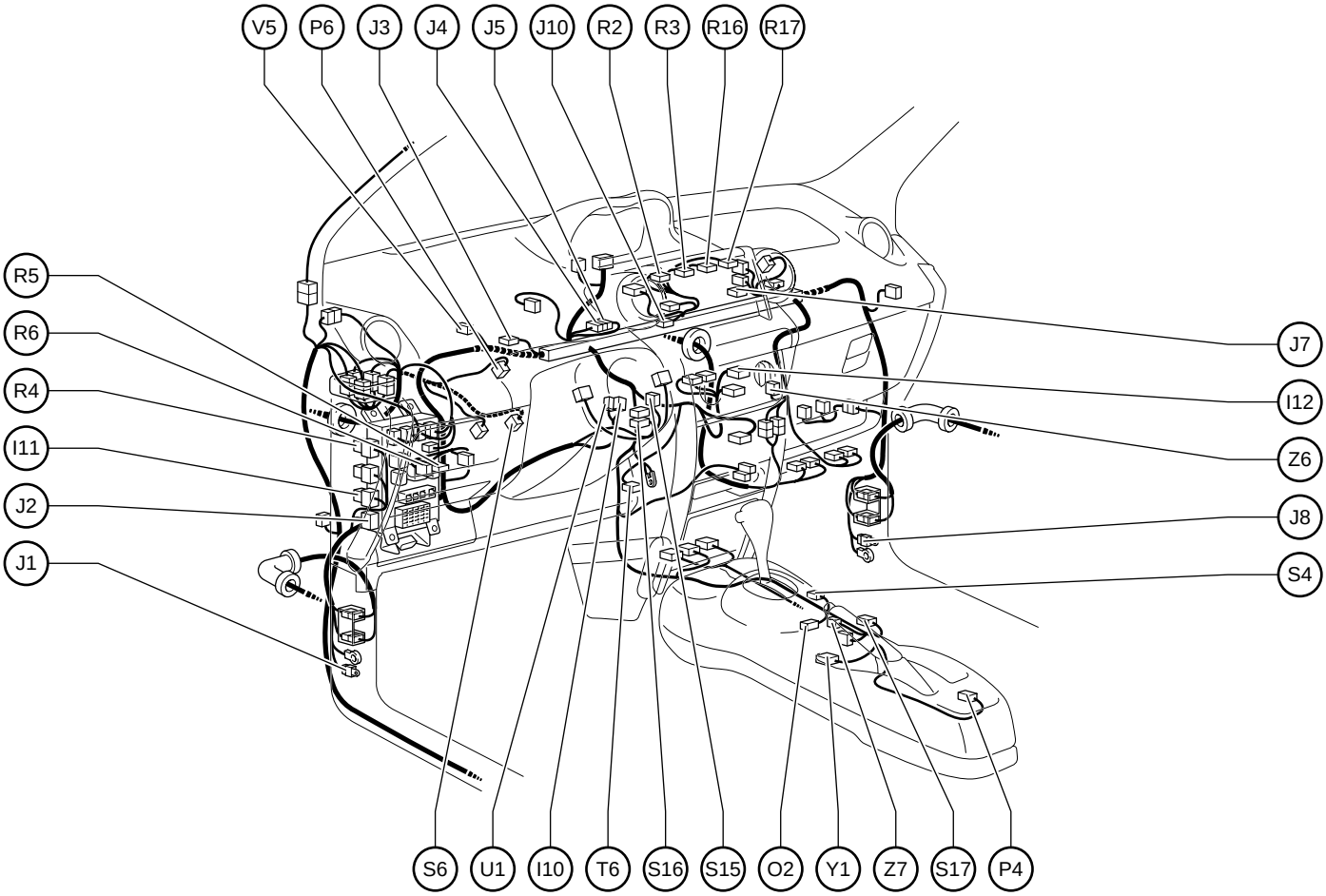
D 1 Data Link Connector 3
D 2 Diode (Personal Light)
D 3 Door Lock Control Relay

E 3 Engine Control Module
E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Control Module

F12 Foot Mode SW
Max Cool SW
Max Hot SW
F18 Front Fog Light Relay
F19 Front Fog Light SW

H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)

Position of Parts in Instrument Panel



I 10 Ignition SW
I 11 Illumination Relay
I 12 Inside SW

J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 10 Junction Connector

O 2 O/D Main SW
Shift Lever Position Illumination

P 4 Parking Brake SW
P 6 PTC Heater

R 2 Radio and Player
R 3 Radio and Player
R 4 Rear Window Defogger Relay
R 5 Remote Control Mirror SW
R 6 Rheostat
R16 Radio and Player
R17 Radio and Player

S 4 Shift Lock Control SW
S 6 Stop Light SW
S15 Steering Sensor
S16 Spiral Cable
S17 Stereo Jack Adapter

T 6 TRAC Off SW

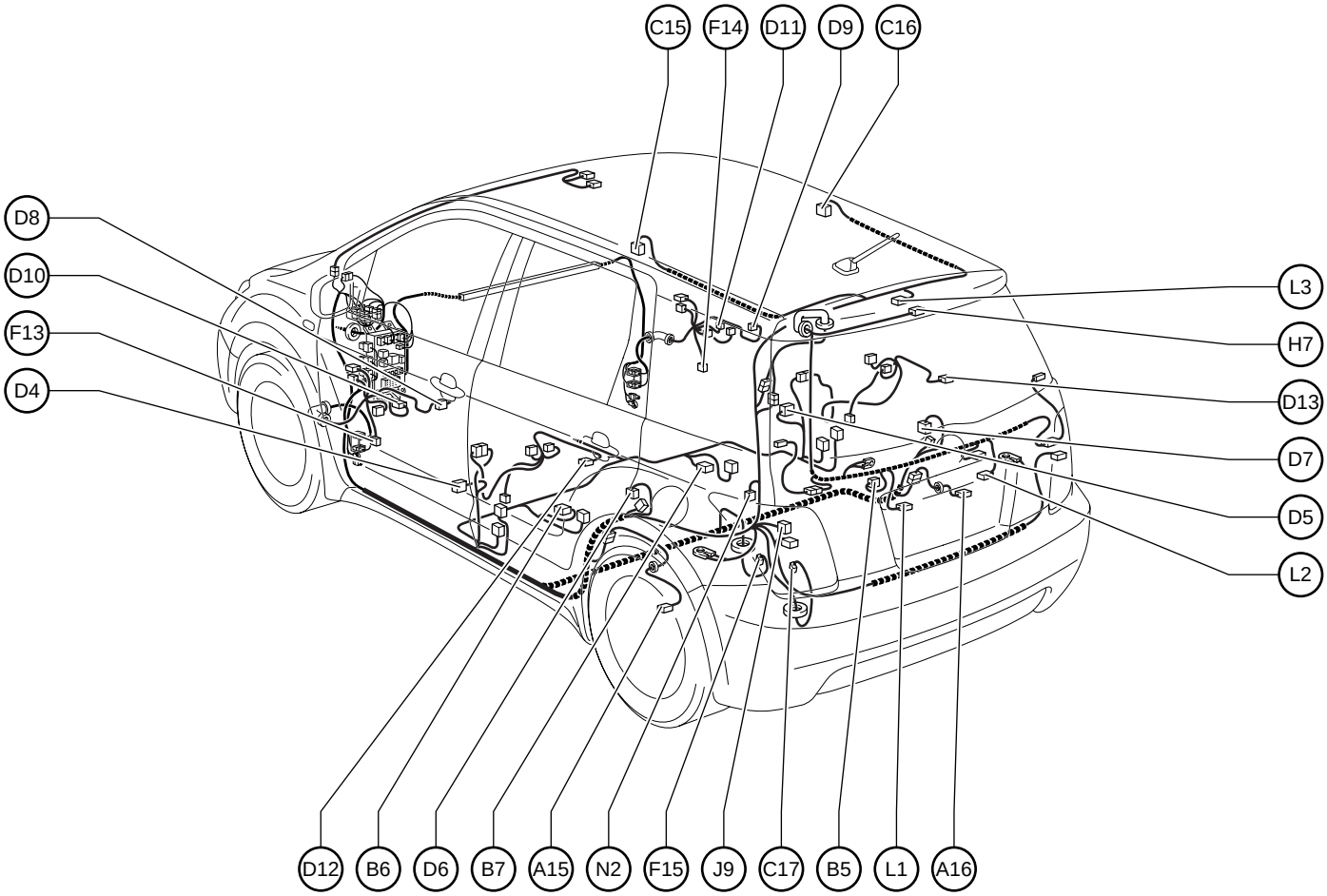
U 1 Unlock Warning SW

V 5 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Z 6 Option Connector (TVIP ECU)
Z 7 Option Connector (IPOD Unit)

Position of Parts in Body



A15 ABS Speed Sensor Rear LH
A16 ABS Speed Sensor Rear RH

B 5 Back Door Courtesy SW
Back Door Lock Motor
B 6 Buckle SW LH
B 7 Buckle SW RH

C15 Curtain Shielded Airbag Squib LH
C16 Curtain Shielded Airbag Squib RH
C17 Canister Pump Module

D 4 Door Courtesy SW Front LH
D 5 Door Courtesy SW Front RH
D 6 Door Courtesy SW Rear LH
D 7 Door Courtesy SW Rear RH
D 8 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D 9 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
D10 Door Lock Control SW LH
Power Window Master SW
D11 Door Lock Control SW RH
D12 Door Lock Motor Rear LH
D13 Door Lock Motor Rear RH

F 13 Front Speaker LH
F 14 Front Speaker RH
F 15 Fuel Pump
Fuel Sender

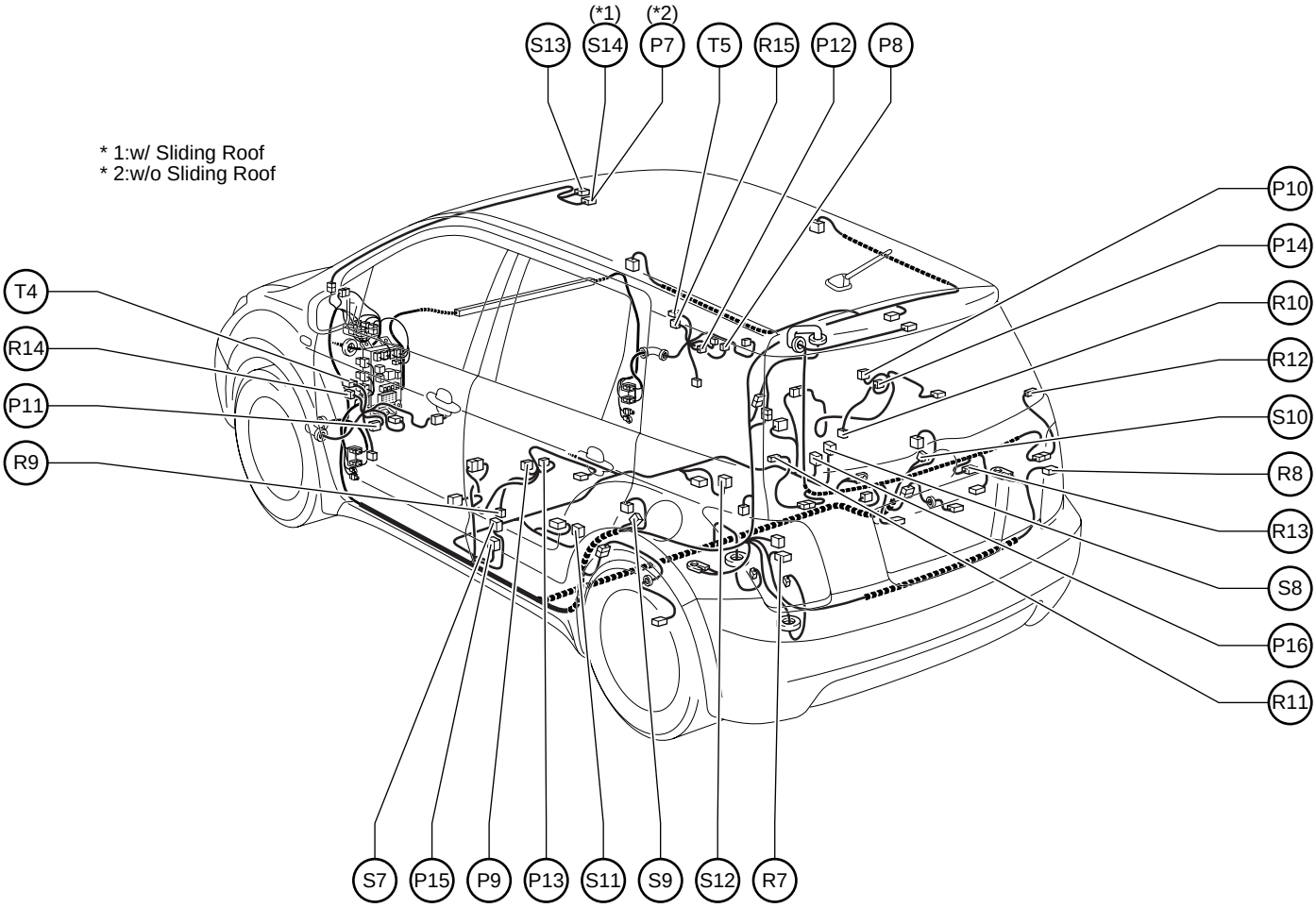
H 7 High Mounted Stop Light

J 9 Junction Connector

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

N 2 Noise Filter (Rear Window Defogger)

Position of Parts in Body



P 7 Personal Light
P 8 Power Window Control SW Front RH
P 9 Power Window Control SW Rear LH
P10 Power Window Control SW Rear RH
P11 Power Window Motor Front LH
P12 Power Window Motor Front RH
P13 Power Window Motor Rear LH
P14 Power Window Motor Rear RH
P15 Pretensioner LH
P16 Pretensioner RH

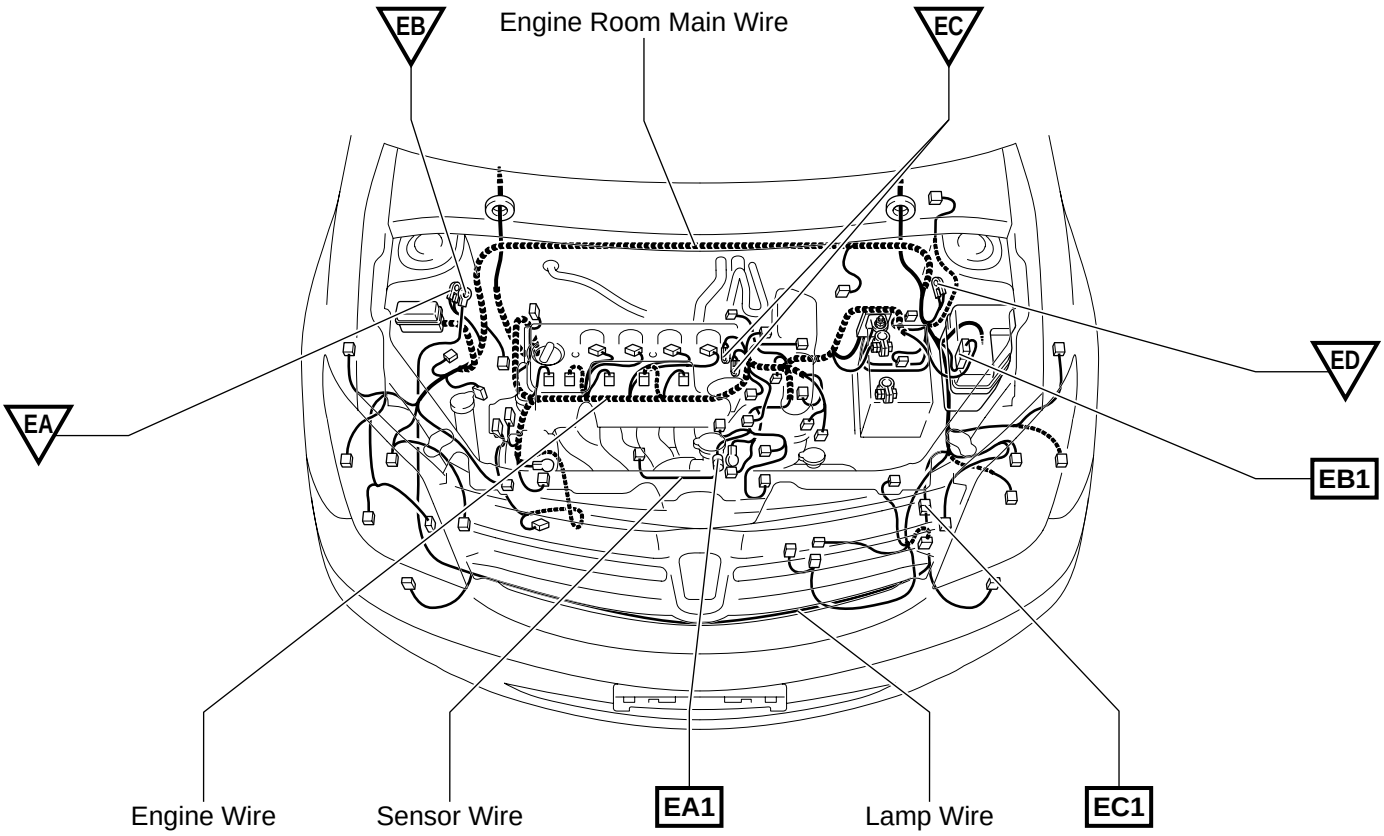
R 7 Rear Combination Light LH
R 8 Rear Combination Light RH
R 9 Rear Speaker LH
R10 Rear Speaker RH
R11 Rear Window Defogger
R12 Rear Window Defogger
R13 Rear Wiper Motor
R14 Remote Control Mirror LH
R15 Remote Control Mirror RH

S 7 Side Airbag Sensor Front LH
S 8 Side Airbag Sensor Front RH
S 9 Side Airbag Sensor Rear LH
S10 Side Airbag Sensor Rear RH
S11 Side Airbag Squib LH
S12 Side Airbag Squib RH
S13 Sliding Roof Control ECU and Motor
S14 Personal Light
Sliding Roof Control SW

T 4 Tweeter LH
T 5 Tweeter RH

G ELECTRICAL WIRING ROUTING

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



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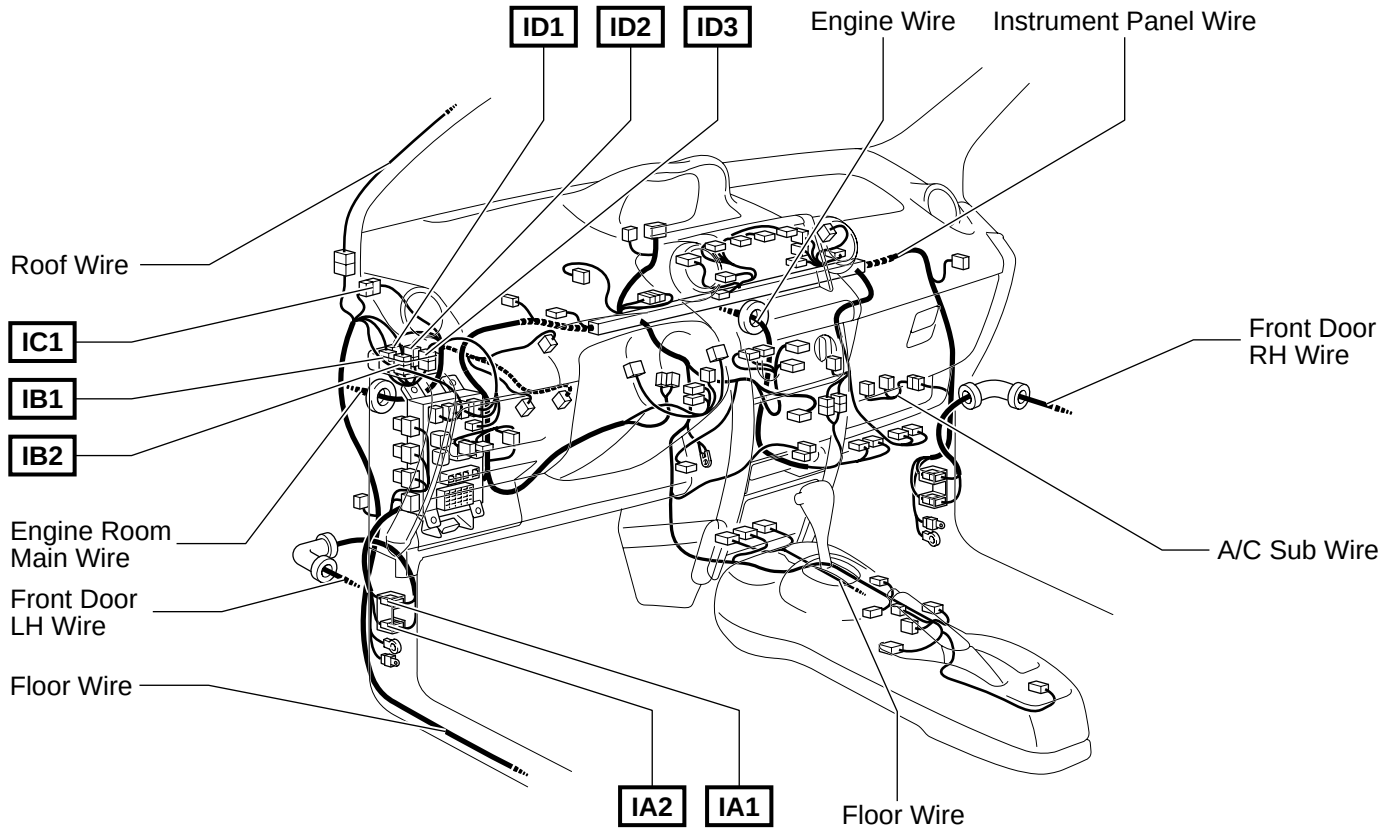
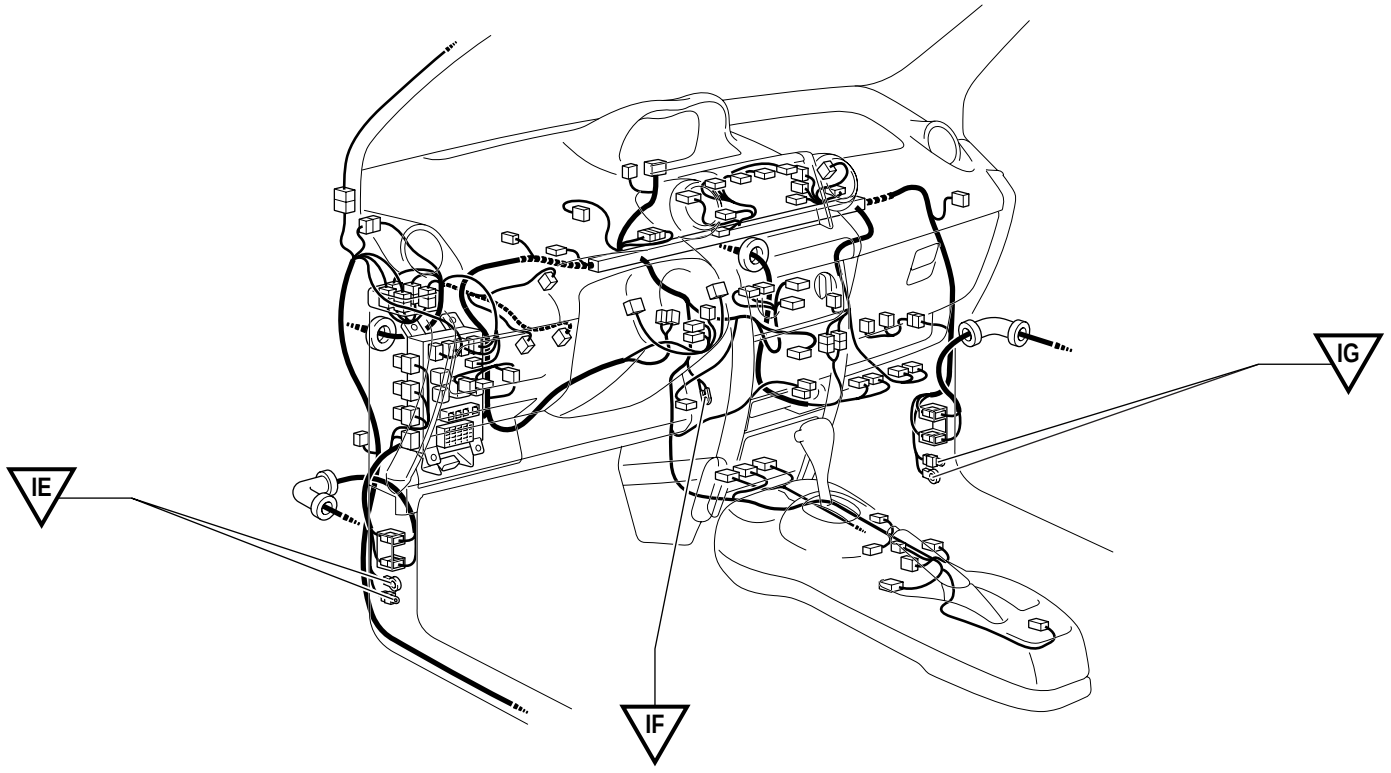


▽ : Location of Ground Points



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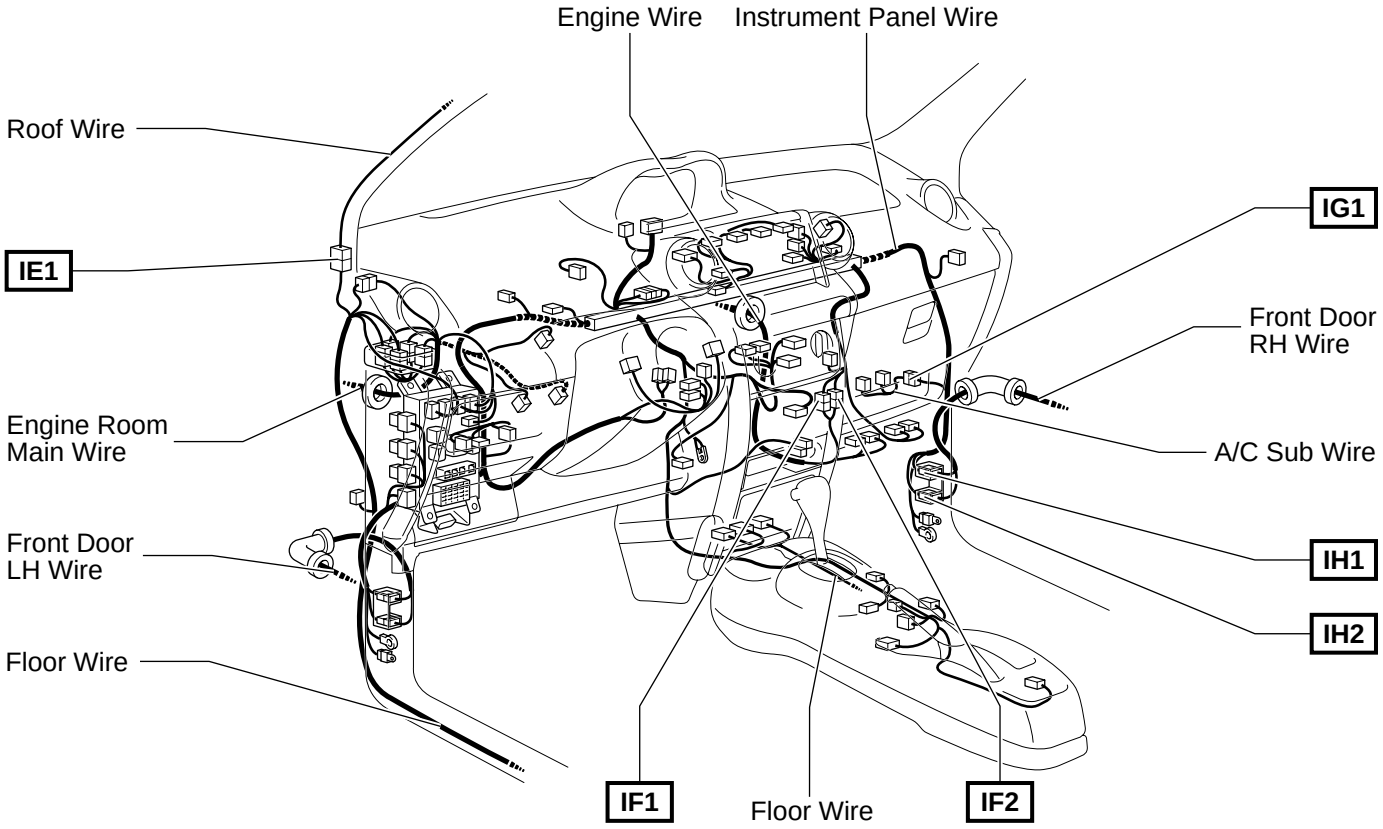

G ELECTRICAL WIRING ROUTING

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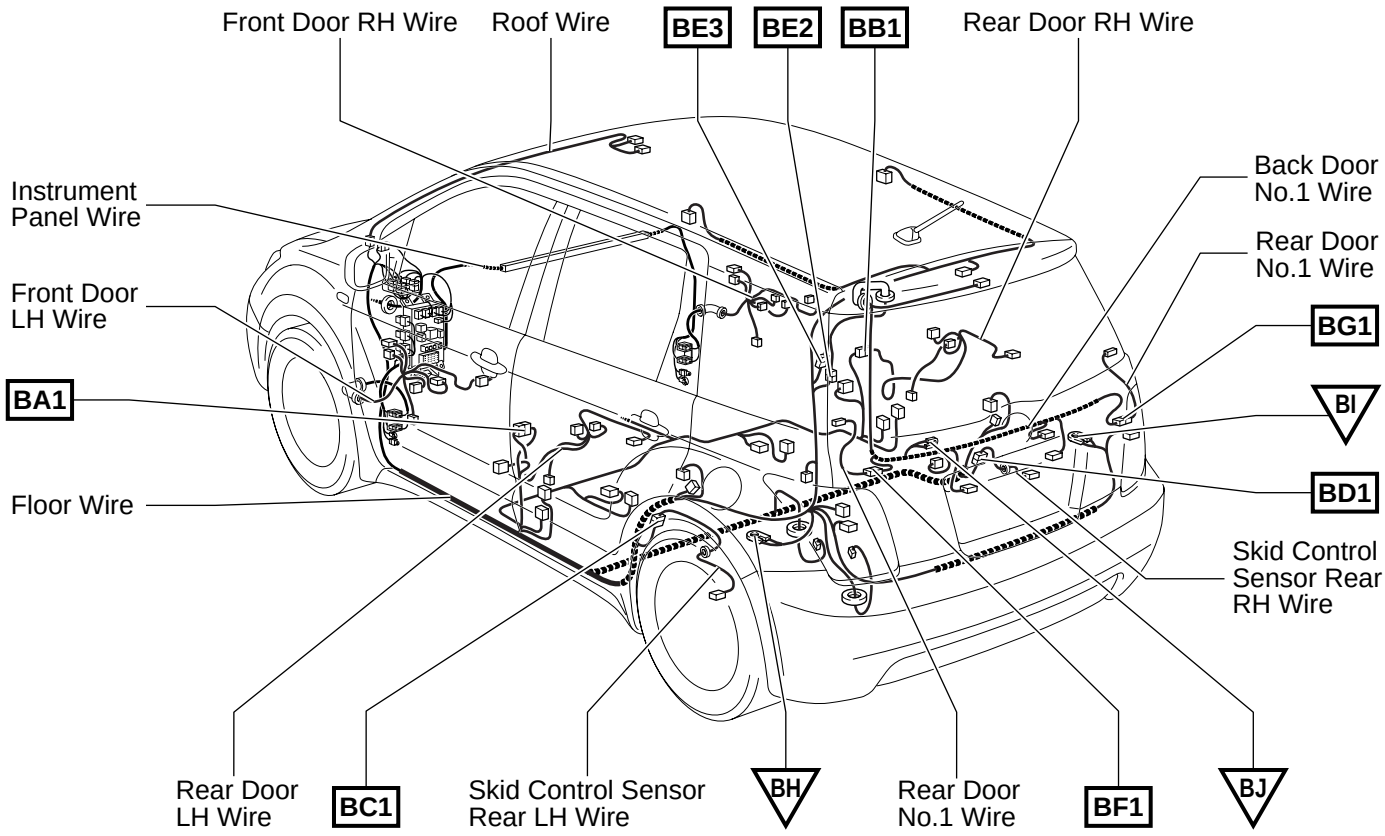
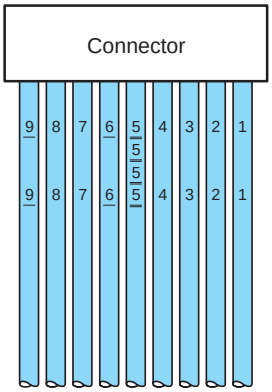
▽ : Location of Ground Points



HINT



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

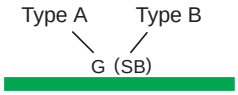
Type A : The wire harness that uses the color–coded wire.

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

This means that there is a case where the wire harness used for even the same section may have different colored wire depending on the models.

Therefore, the wire colors are also mentioned in this manual as follows.

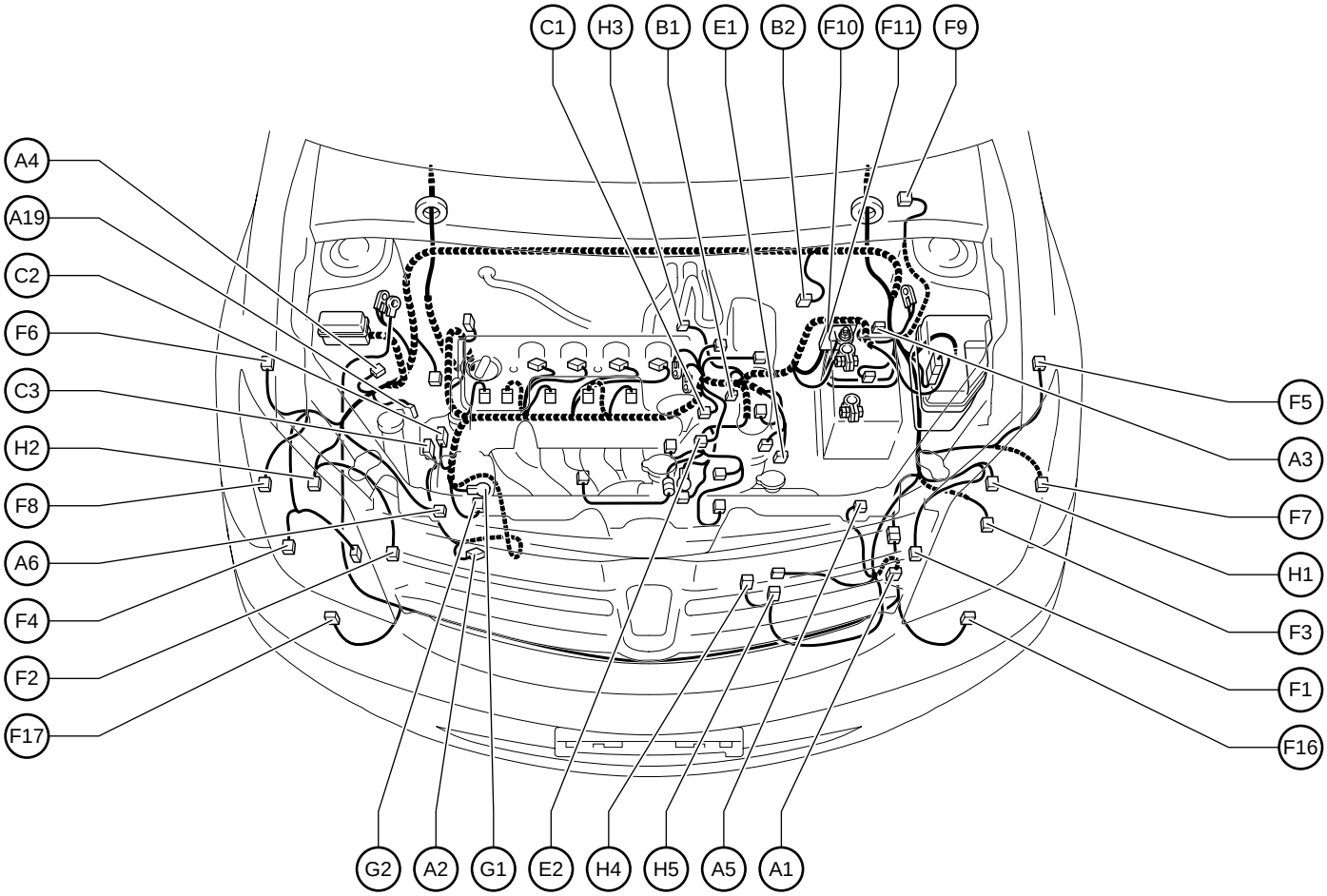
<Example>



In case of using the same colored wires, each terminal number is printed on the wire as shown in the illustration on the left in order to distinguish each wiring.

Be sure to connect the terminal to the same place as indicated by the terminal number printed on the wire after disconnecting the terminal from the connector.

Position of Parts in Engine Compartment



A 1 A/C Condenser Fan Resistor
A 2 A/C Magnetic Valve
A 3 ABS Speed Sensor Front LH
A 4 ABS Speed Sensor Front RH
A 5 Airbag Sensor Front LH
A 6 Airbag Sensor Front RH
A19 A/C 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
C 3 Crankshaft Position Sensor

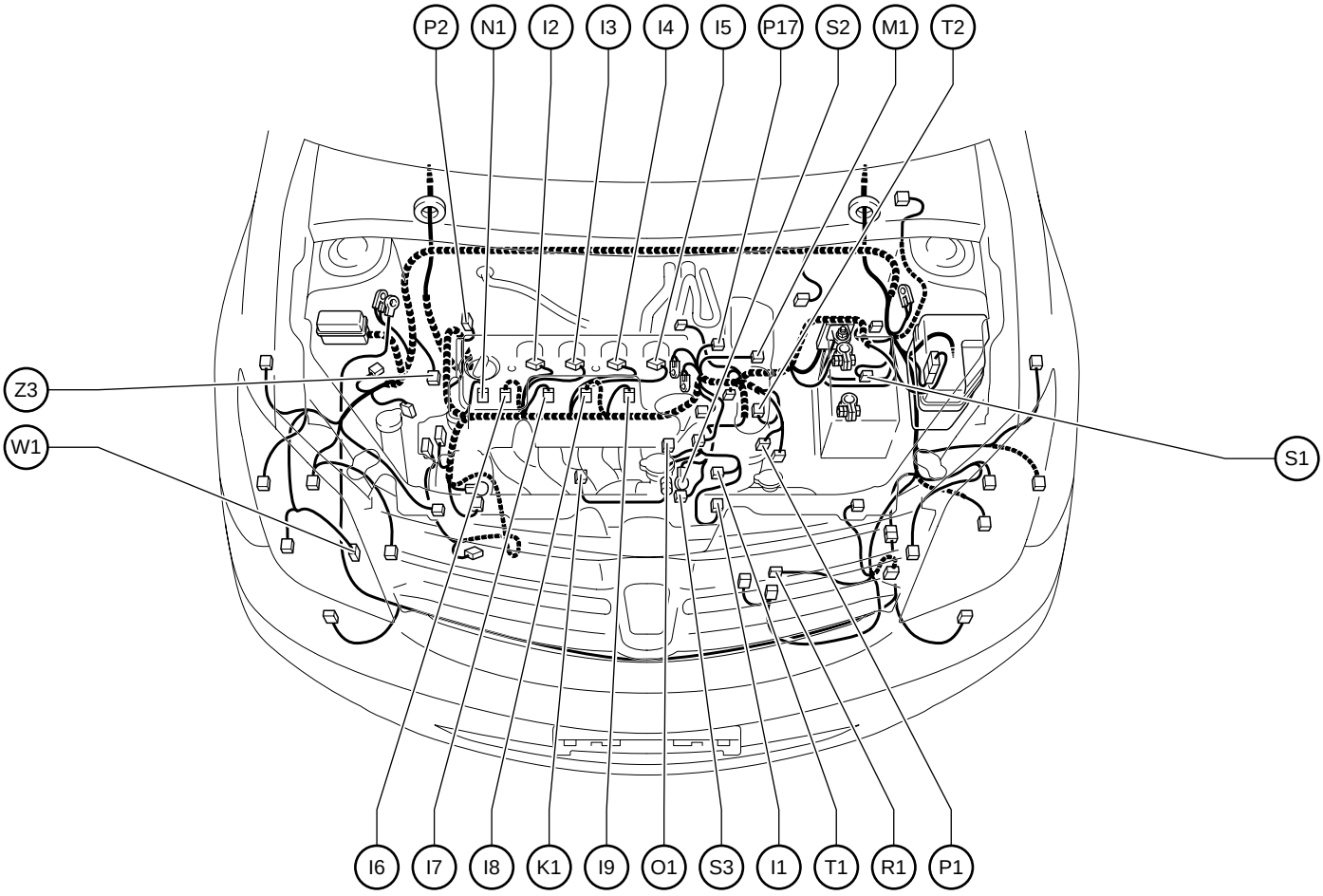
E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Coolant Temp. Sensor

F 1 Front Parking Light LH
F 2 Front Parking Light RH
F 3 Front Side Marker Light LH
F 4 Front Side Marker Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Wiper Motor
F10 Fusible Link Block
F11 Fusible Link Block
F16 Front Fog Light LH
F17 Front Fog Light RH

G 1 Generator
G 2 Generator

H 1 Headlight LH
H 2 Headlight RH
H 3 Heated Oxygen Sensor (Bank 1 Sensor 1)
H 4 Horn (High)
H 5 Horn (Low)

Position of Parts in Engine Compartment



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

K 1 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition)

O 1 Oil Pressure SW

P 1 Park/Neutral Position SW
P 2 Power Steering Oil Pressure Sensor
P17 VSV (Purge)

R 1 Radiator Fan Motor

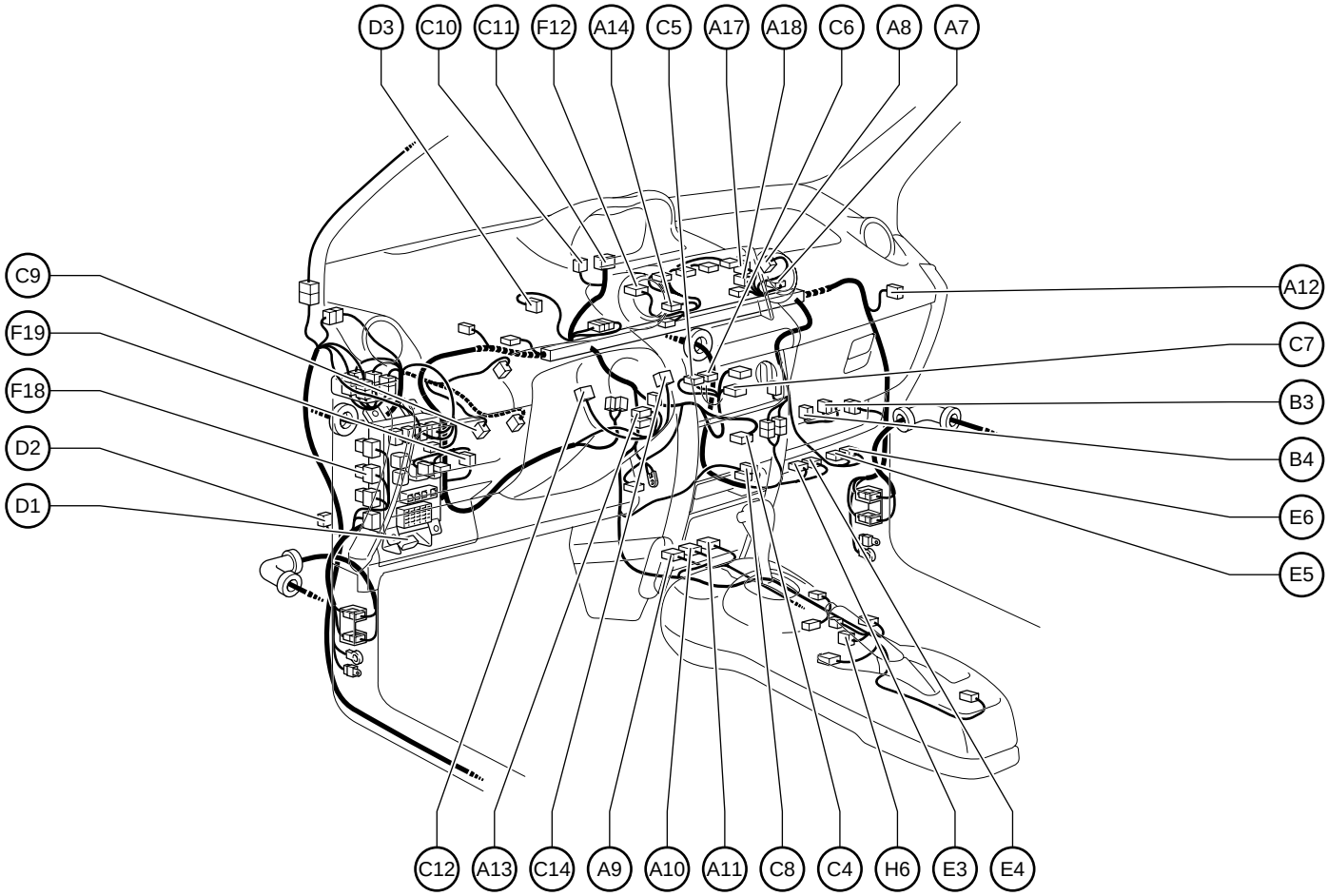
S 1 Skid Control Actuator with ECU
S 2 Starter
S 3 Starter

T 1 Throttle Position Sensor
T 2 Turbine Speed Sensor

W 1 Washer Motor

Z 3 Option Connector (TVIP Siren)

Position of Parts in Instrument Panel



A 7 A/C Thermistor
A 8 Air Inlet Control Servo Motor
A 9 Airbag Sensor Assembly
A10 Airbag Sensor Assembly
A11 Airbag Sensor Assembly
A12 Airbag Squib (Front Passenger Airbag Assembly)
A13 Airbag Squib (Steering Wheel Pad)
A14 Antenna Amplifier
A17 A/C Amplifier
A18 A/C Amplifier

B 3 Blower Motor
B 4 Blower Resistor

C 4 Center Cluster Box Illumination
C 5 Center Cluster SW
C 6 Center Cluster SW
C 7 Center Cluster SW
C 8 Cigarette Lighter
C 9 Clutch Start SW
C10 Combination Meter
C11 Combination Meter
C12 Combination SW
C14 Combination SW

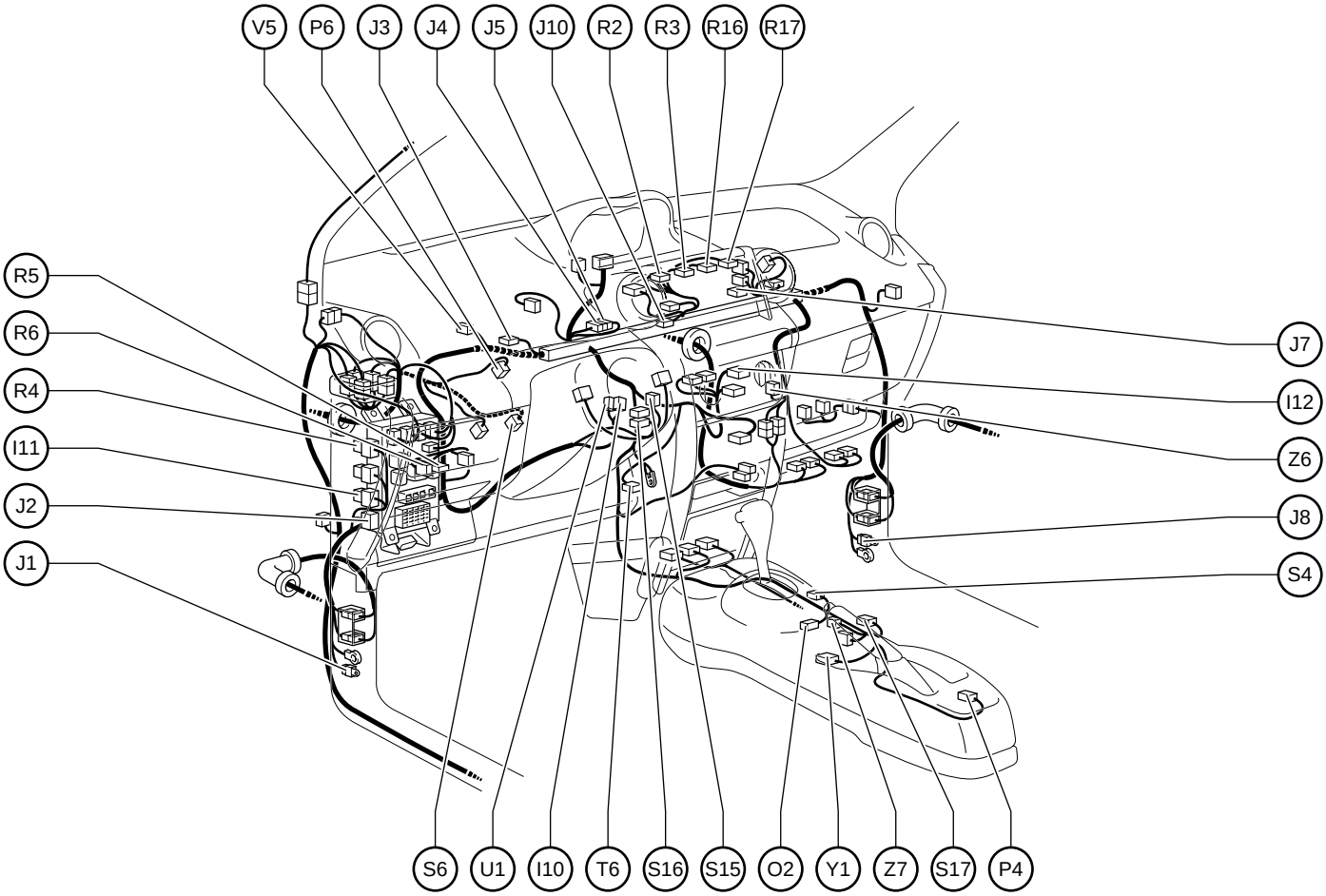
D 1 Data Link Connector 3
D 2 Diode (Personal Light)
D 3 Door Lock Control Relay

E 3 Engine Control Module
E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Control Module

F12 Foot Mode SW
Max Cool SW
Max Hot SW
F18 Front Fog Light Relay
F19 Front Fog Light SW

H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)

Position of Parts in Instrument Panel



I 10 Ignition SW
I 11 Illumination Relay
I 12 Inside SW

J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 10 Junction Connector

O 2 O/D Main SW
Shift Lever Position Illumination

P 4 Parking Brake SW
P 6 PTC Heater

R 2 Radio and Player
R 3 Radio and Player
R 4 Rear Window Defogger Relay
R 5 Remote Control Mirror SW
R 6 Rheostat
R16 Radio and Player
R17 Radio and Player

S 4 Shift Lock Control SW
S 6 Stop Light SW
S15 Steering Sensor
S16 Spiral Cable
S17 Stereo Jack Adapter

T 6 TRAC Off SW

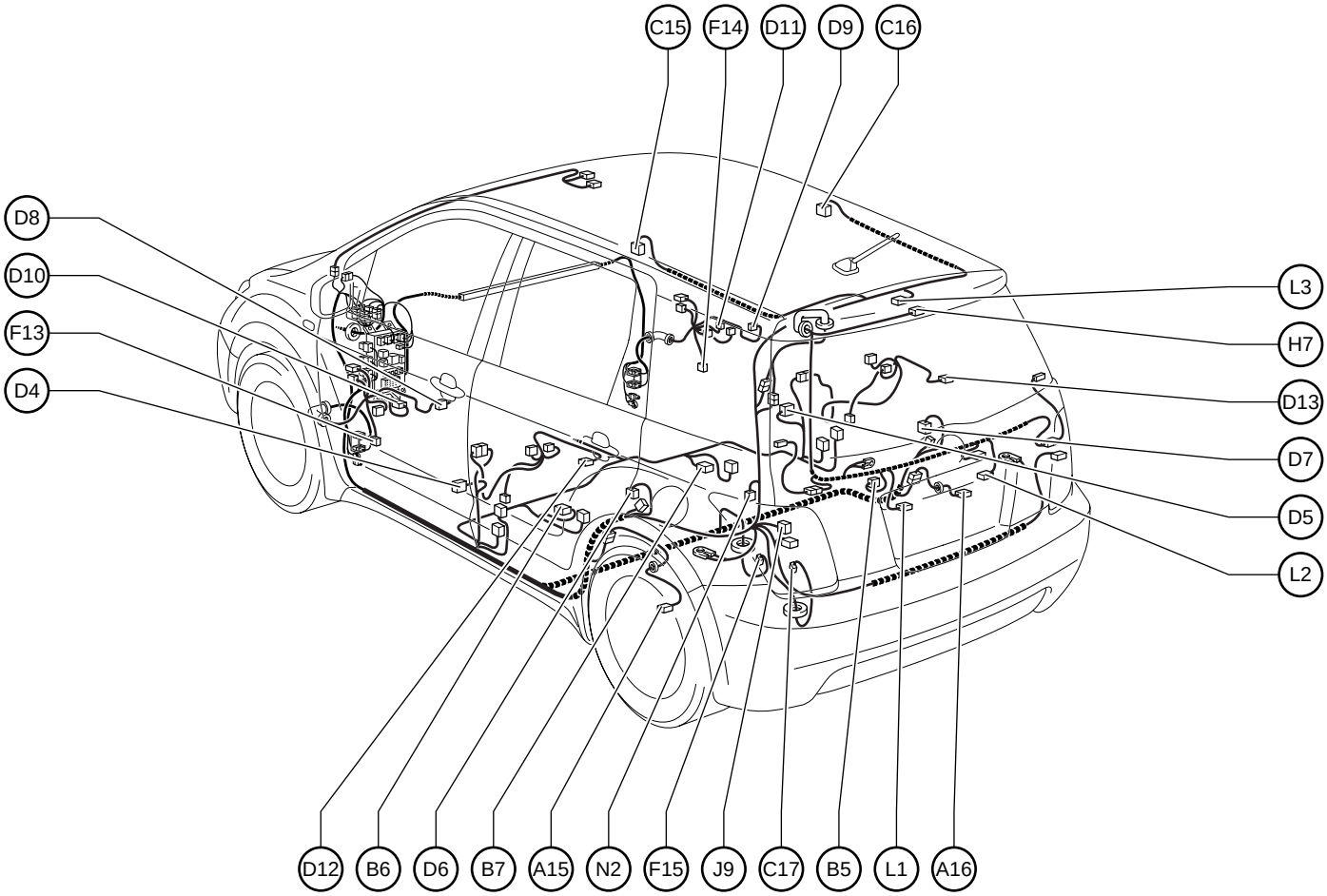
U 1 Unlock Warning SW

V 5 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Z 6 Option Connector (TVIP ECU)
Z 7 Option Connector (IPOD Unit)

Position of Parts in Body



A15 ABS Speed Sensor Rear LH
A16 ABS Speed Sensor Rear RH

B 5 Back Door Courtesy SW
Back Door Lock Motor
B 6 Buckle SW LH
B 7 Buckle SW RH

C15 Curtain Shielded Airbag Squib LH
C16 Curtain Shielded Airbag Squib RH
C17 Canister Pump Module

D 4 Door Courtesy SW Front LH
D 5 Door Courtesy SW Front RH
D 6 Door Courtesy SW Rear LH
D 7 Door Courtesy SW Rear RH
D 8 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D 9 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
D10 Door Lock Control SW LH
Power Window Master SW
D11 Door Lock Control SW RH
D12 Door Lock Motor Rear LH
D13 Door Lock Motor Rear RH

F 13 Front Speaker LH
F 14 Front Speaker RH
F 15 Fuel Pump
Fuel Sender

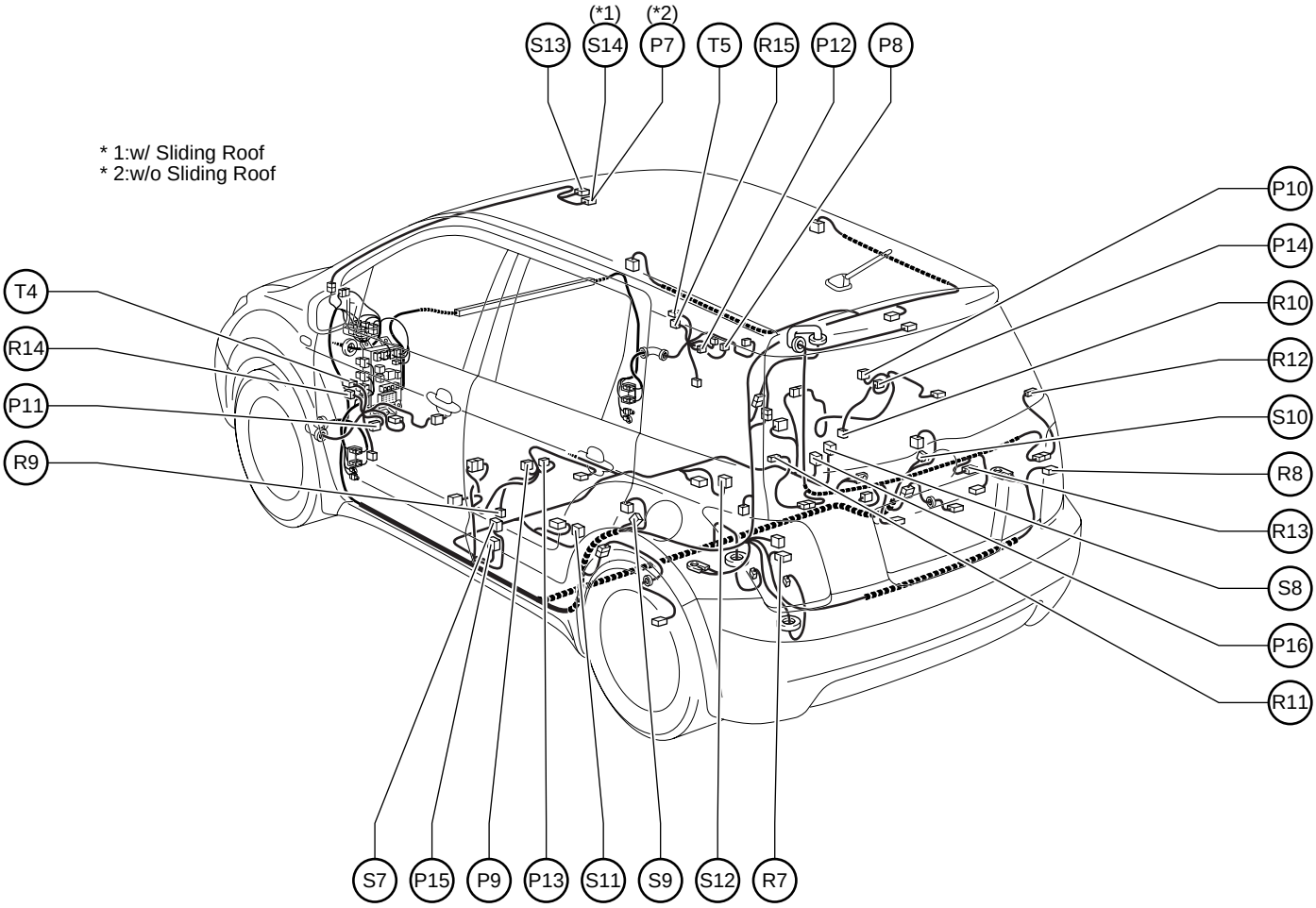
H 7 High Mounted Stop Light

J 9 Junction Connector

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

N 2 Noise Filter (Rear Window Defogger)

Position of Parts in Body



P 7 Personal Light
P 8 Power Window Control SW Front RH
P 9 Power Window Control SW Rear LH
P10 Power Window Control SW Rear RH
P11 Power Window Motor Front LH
P12 Power Window Motor Front RH
P13 Power Window Motor Rear LH
P14 Power Window Motor Rear RH
P15 Pretensioner LH
P16 Pretensioner RH

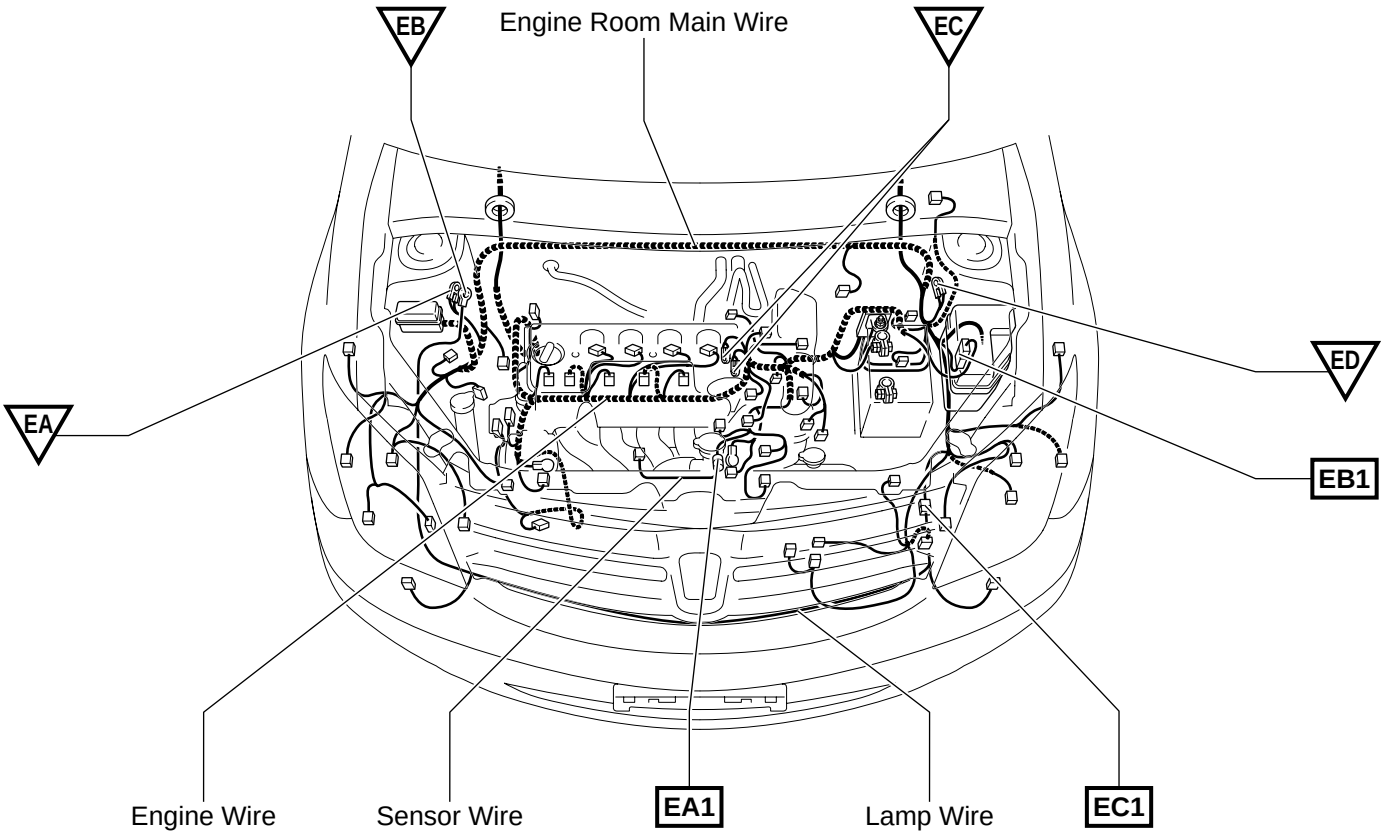
R 7 Rear Combination Light LH
R 8 Rear Combination Light RH
R 9 Rear Speaker LH
R10 Rear Speaker RH
R11 Rear Window Defogger
R12 Rear Window Defogger
R13 Rear Wiper Motor
R14 Remote Control Mirror LH
R15 Remote Control Mirror RH

S 7 Side Airbag Sensor Front LH
S 8 Side Airbag Sensor Front RH
S 9 Side Airbag Sensor Rear LH
S10 Side Airbag Sensor Rear RH
S11 Side Airbag Squib LH
S12 Side Airbag Squib RH
S13 Sliding Roof Control ECU and Motor
S14 Personal Light
Sliding Roof Control SW

T 4 Tweeter LH
T 5 Tweeter RH

G ELECTRICAL WIRING ROUTING

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



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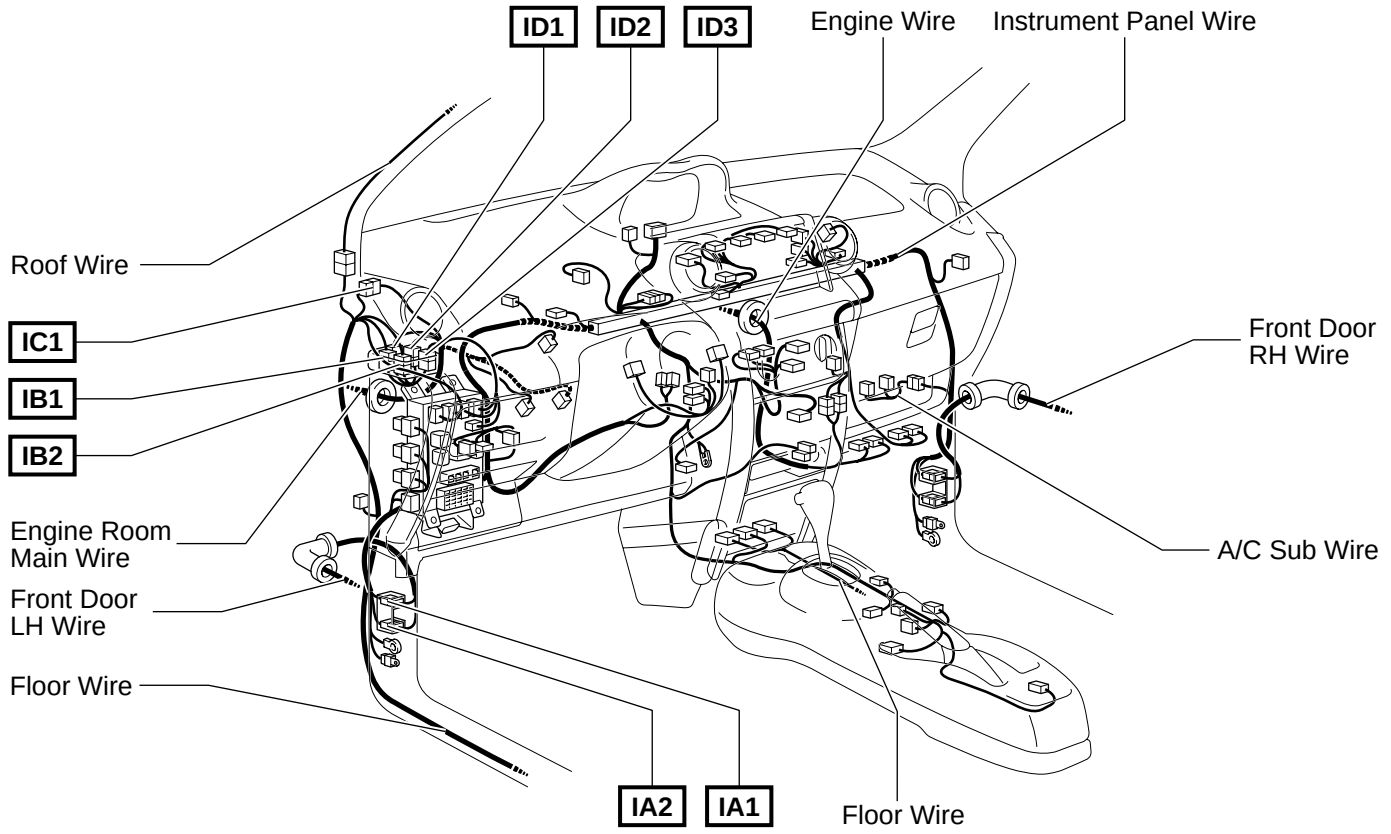

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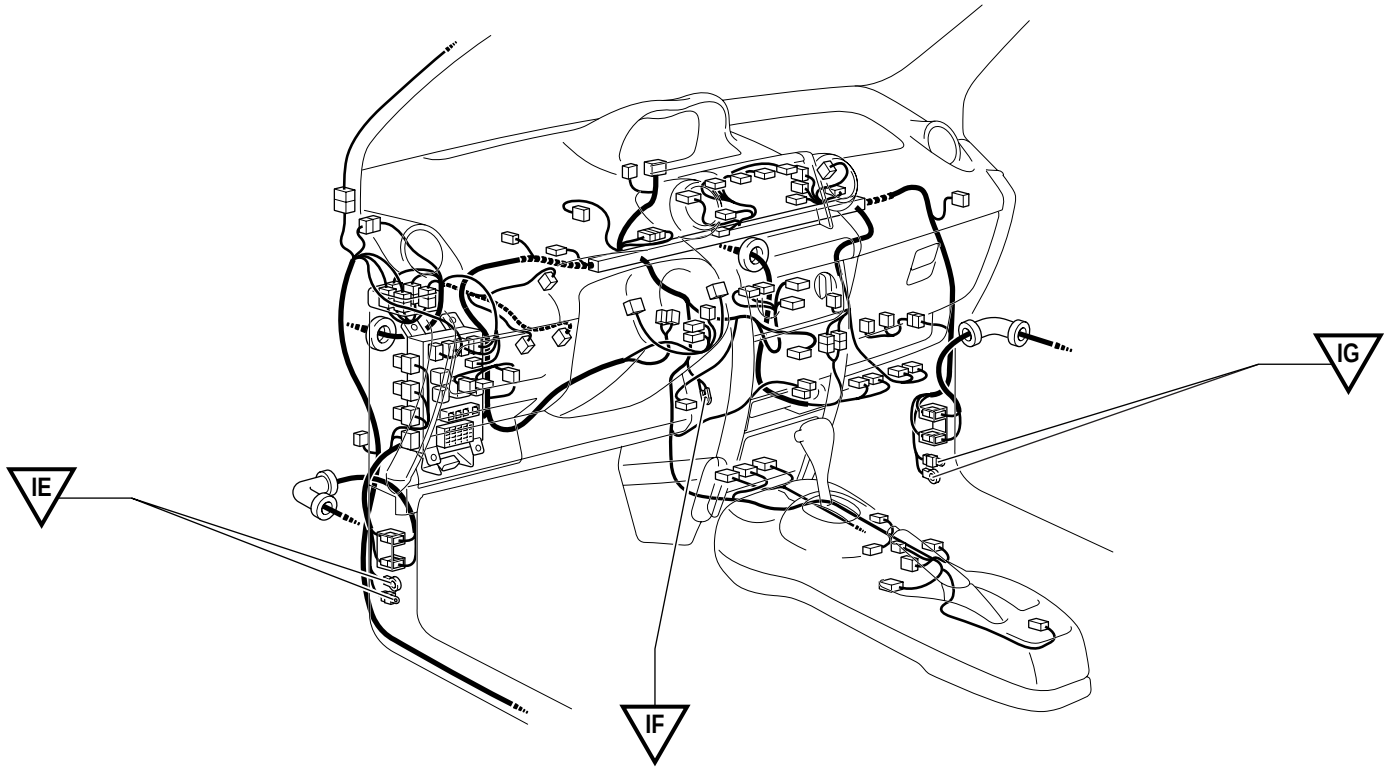

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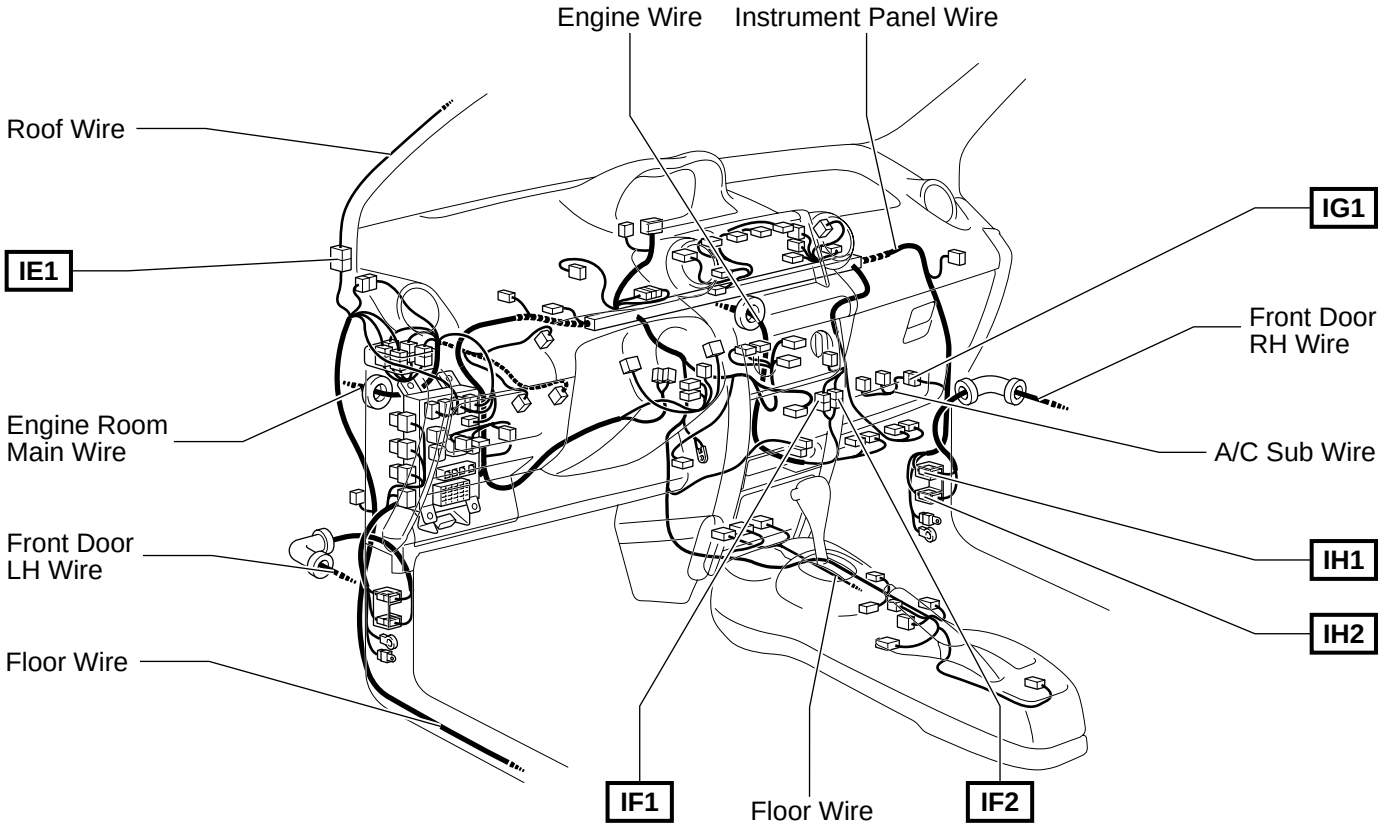

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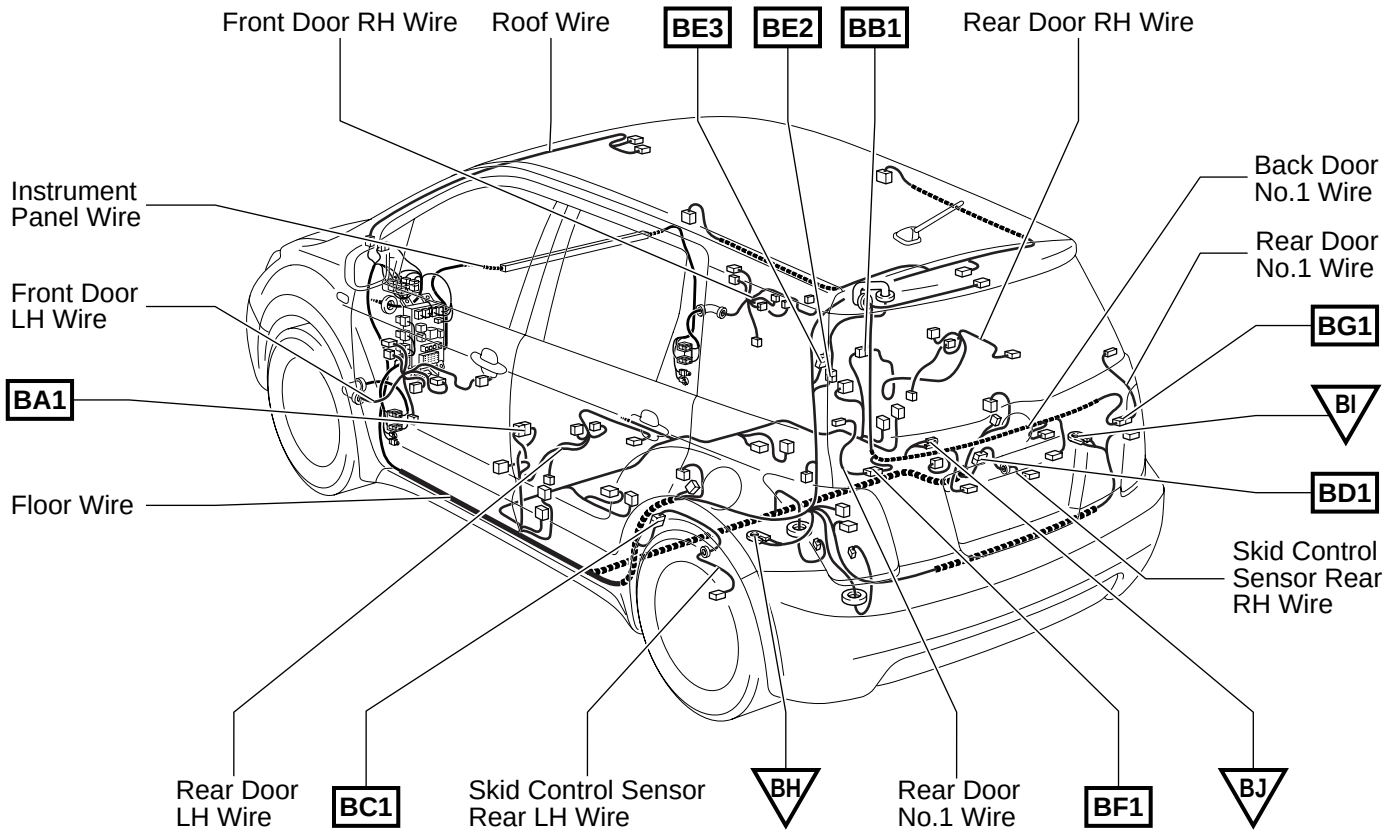
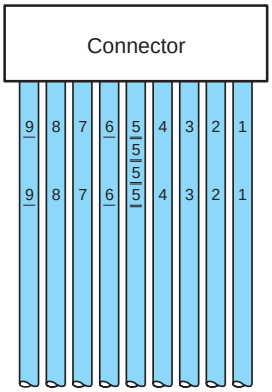


HINT



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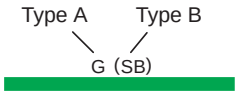

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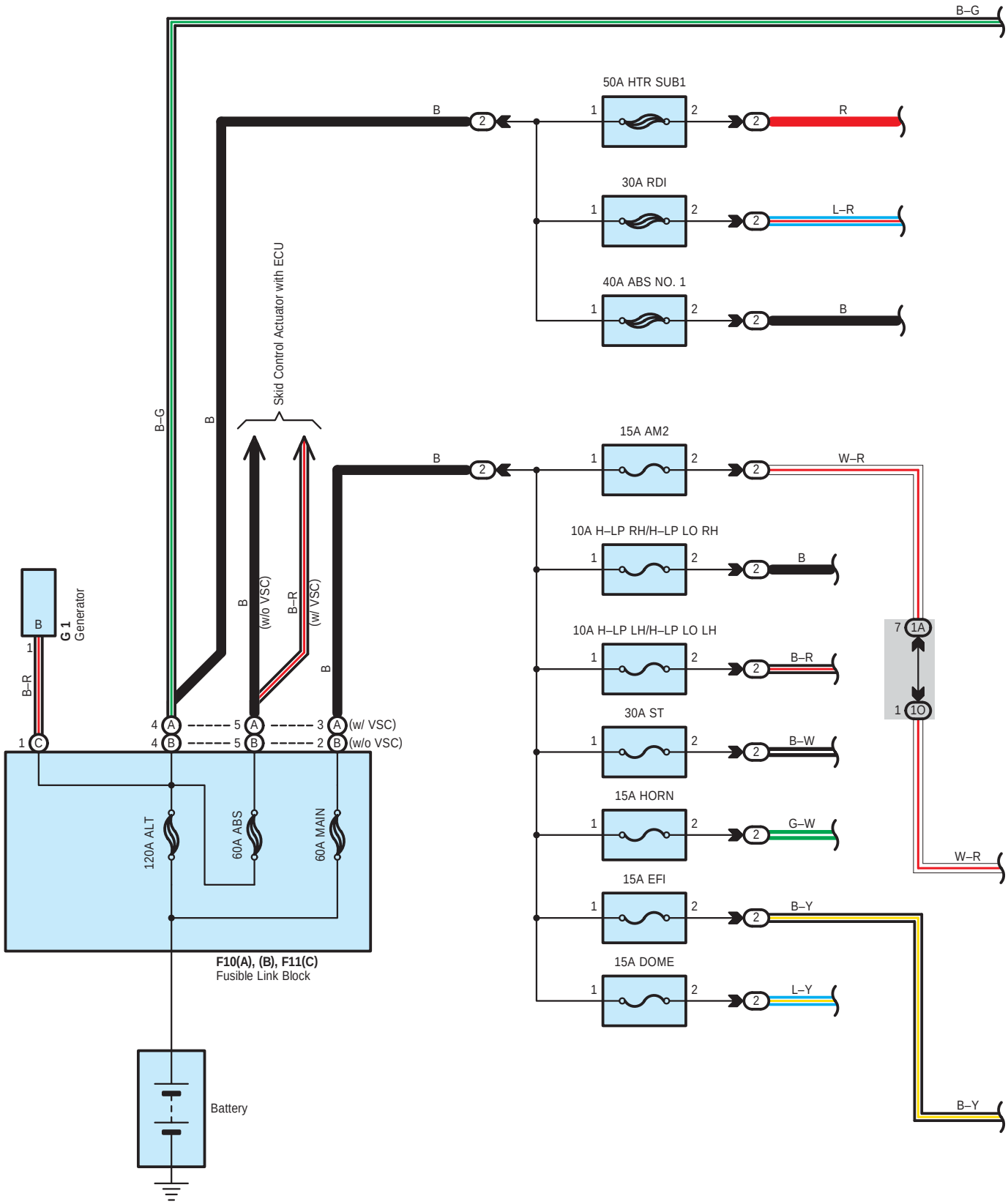
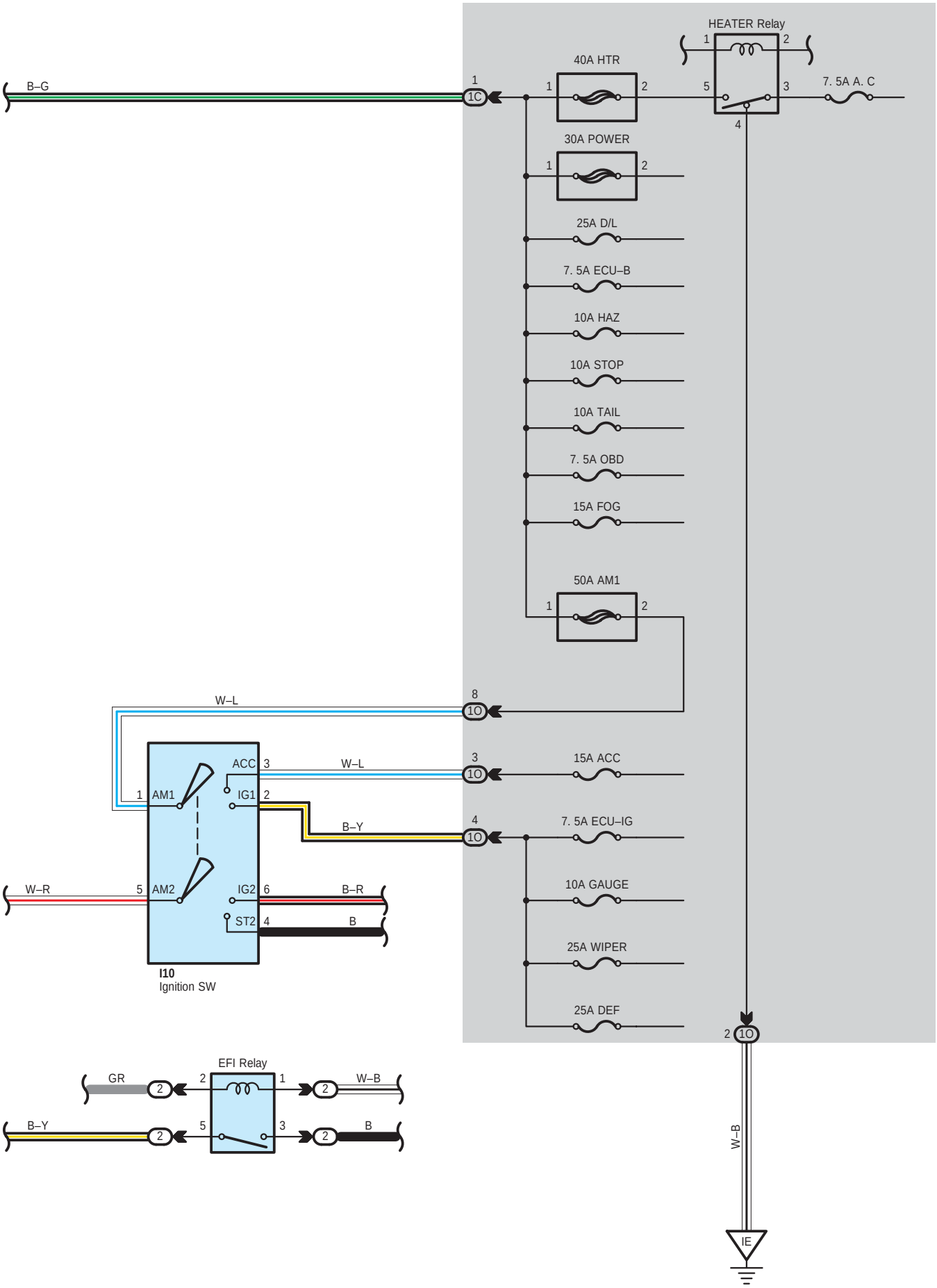

B–G
50A HTR SUB1
B
R
30A RDI
L–R
40A ABS NO. 1
B
Skid Control Actuator with ECU
B–G
B
15A AM2
W–R
10A H–LP RH/H–LP LO RH
B
10A H–LP LH/H–LP LO LH
B–R
30A ST
B–W
15A HORN
G–W
15A EFI
B–Y
15A DOME
L–Y
B (w/o VSC)
B–R (w/ VSC)
B
G 1
Generator
B
B–R
4 A 5 A 3 A (w/ VSC)
4 B 5 B 2 B (w/o VSC)
120A ALT
60A ABS
60A MAIN
F10(A), (B), F11(C)
Fusible Link Block
Battery
7 1A
1 1O
W–R
B–Y


HEATER Relay
40A HTR
B–G
1C
7. 5A A. C
30A POWER
25A D/L
7. 5A ECU–B
10A HAZ
10A STOP
10A TAIL
7. 5A OBD
15A FOG
50A AM1
W–L
1O
15A ACC
B–Y
7. 5A ECU–IG
10A GAUGE
25A WIPER
25A DEF
ACC
IG1
AM1
AM2
IG2
ST2
W–R
B–R
B
I10
Ignition SW
EFI Relay
GR
W–B
B–Y
W–B
IE

○ : **Parts Location**

Code		See Page	Code		See Page	Code	See Page
F10	A	28	F11	C	28	I10	31
	B	28	G1		28		

⬭ : **Relay Blocks**

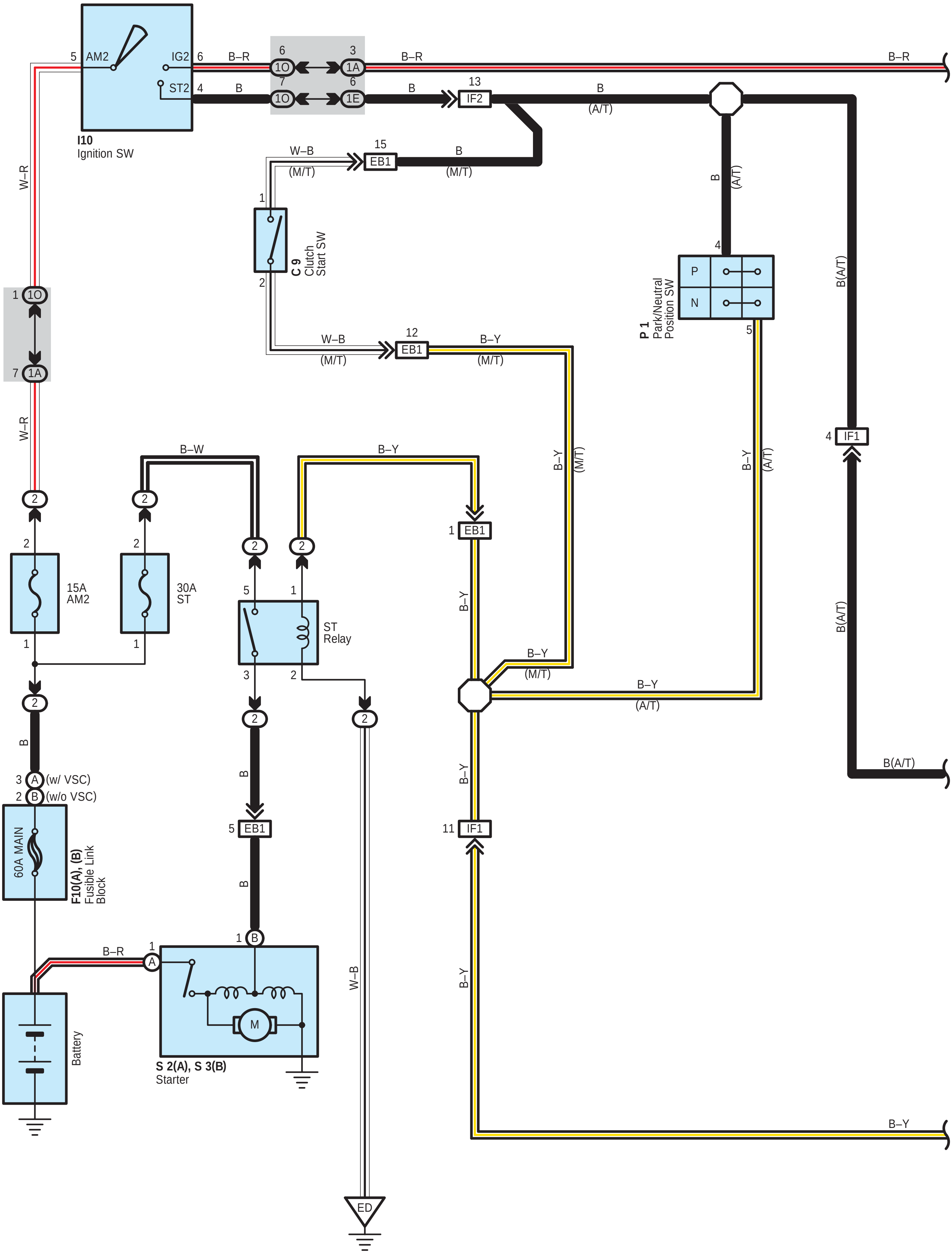
Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

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

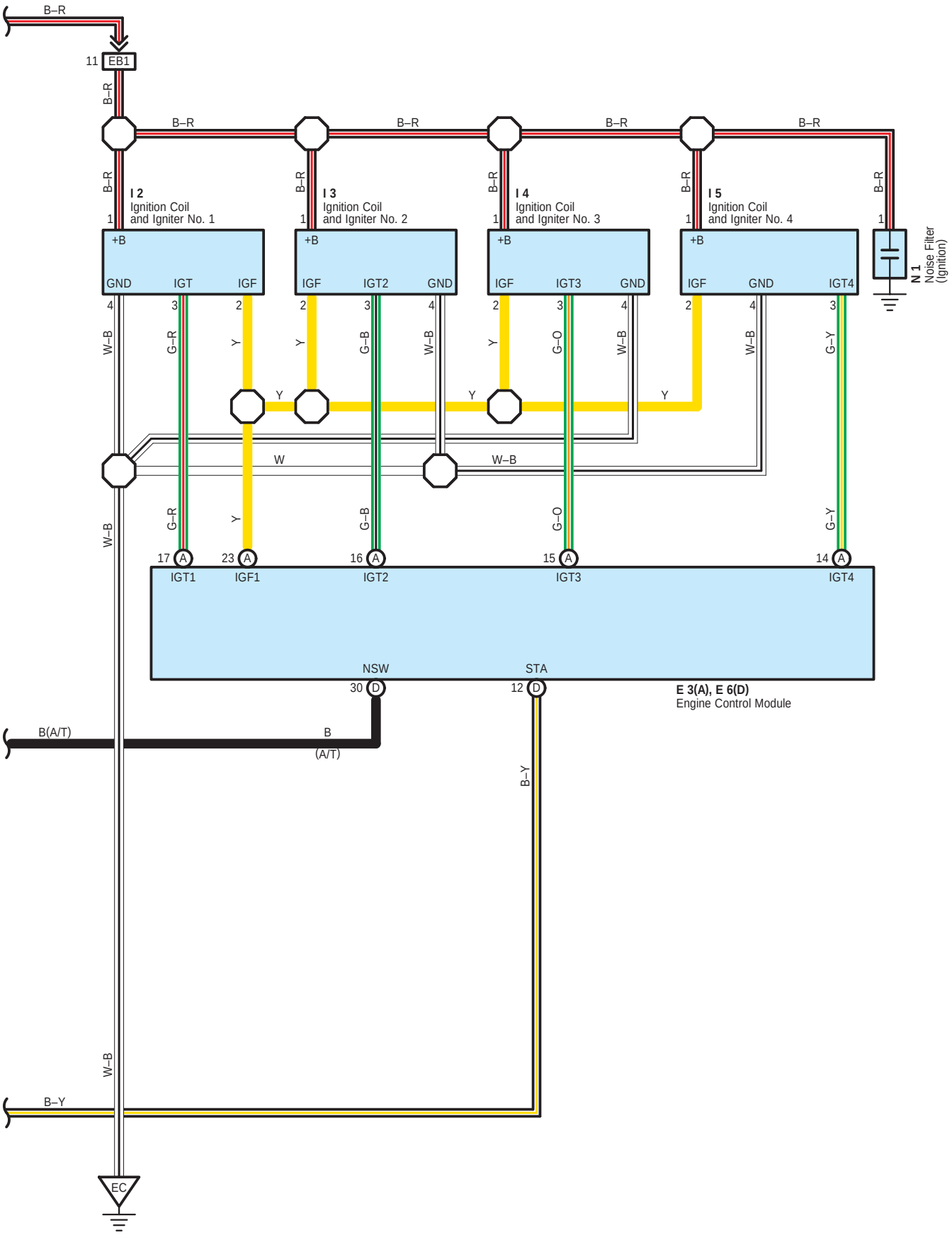
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C		
1O	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	36	Left Kick Panel



I10
Ignition SW
AM2
IG2
ST2
B–R
W–R
W–B
(M/T)
B
(A/T)
1O
1A
1E
IF2
EB1
IF1
C 9
Clutch
Start SW
P 1
Park/Neutral
Position SW
P
N
B(A/T)
B–Y
B–W
15A
AM2
30A
ST
ST
Relay
(w/ VSC)
(w/o VSC)
60A MAIN
F10(A), (B)
Fusible Link
Block
Battery
S 2(A), S 3(B)
Starter
M
ED


B–R
11 EB1
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
GND
IGT
IGF
IGF
IGT2
GND
IGF
IGT3
GND
IGF
GND
IGT4
N 1
Noise Filter
(Ignition)
W–B
G–R
Y
G–B
G–O
G–Y
W
17 A
IGT1
23 A
IGF1
16 A
IGT2
15 A
IGT3
14 A
IGT4
NSW
30 D
STA
12 D
E 3(A), E 6(D)
Engine Control Module
B(A/T)
B
(A/T)
B–Y
EC

: Parts Location

Code		See Page	Code	See Page	Code		See Page
C9		30	I2	29	N1		29
E3	A	30	I3	29	P1		29
E6	D	30	I4	29	S2	A	29
F10	A	28	I5	29	S3	B	29
F10	B	28	I10	31			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		

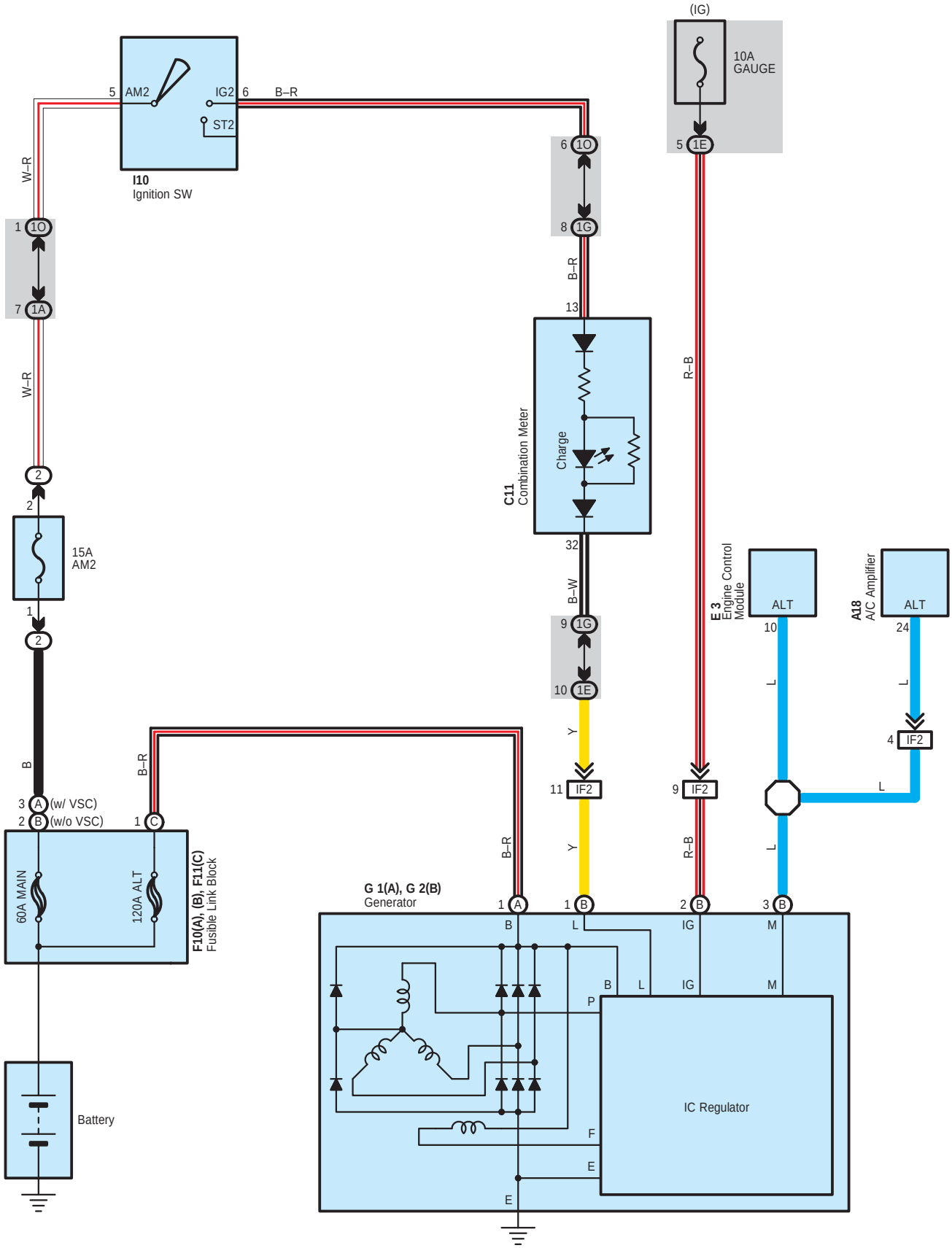
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	34	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IF1	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
IF2		

: Ground Points

Code	See Page	Ground Points Location
EC	34	Cylinder Head
ED	34	Front Fender Apron LH

2006 xA
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS


(IG)
10A
GAUGE
5 1E
5 AM2
IG2 6 B–R
ST2
I10
Ignition SW
6 1O
8 1G
B–R
13
C11
Combination Meter
Charge
32
B–W
9 1G
10 1E
R–B
E 3
Engine Control
Module
ALT
10
A18
A/C Amplifier
ALT
24
L
4 IF2
L
W–R
1 1O
7 1A
W–R
2
2
15A
AM2
1
2
B
3 A (w/ VSC)
2 B (w/o VSC)
B–R
1 C
Y
11 IF2
9 IF2
R–B
L
F10(A), (B), F11(C)
Fusible Link Block
60A MAIN
120A ALT
G 1(A), G 2(B)
Generator
1 A
1 B
2 B
3 B
B
L
IG
M
P
F
E
IC Regulator
Battery

: Parts Location

Code	See Page	Code		See Page	Code		See Page
A18	30	F10	A	28	G1	A	28
C11	30		B	28	G2	B	28
E3	30	F11	C	28	I10		31

: Relay Blocks

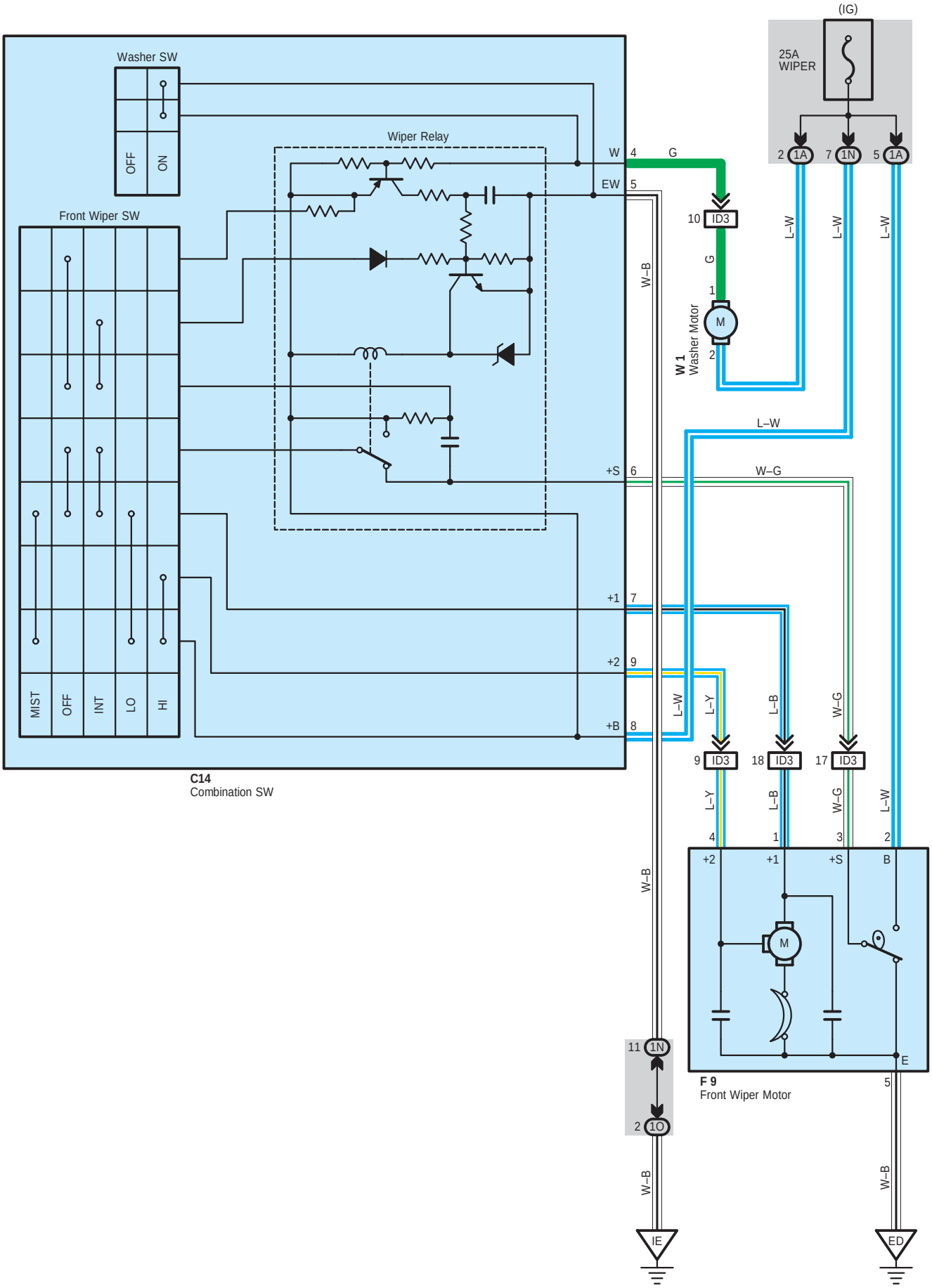
Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1O		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)


(IG)
25A
WIPER
2 1A
7 1N
5 1A
Washer SW
OFF
ON
Wiper Relay
Front Wiper SW
MIST
OFF
INT
LO
HI
W
EW
+S
+1
+2
+B
4
5
6
7
9
8
G
W–B
L–W
W–G
L–Y
L–B
10 ID3
1
M
2
W 1
Washer Motor
9 ID3
18 ID3
17 ID3
4
1
3
2
+2
+1
+S
B
E
F 9
Front Wiper Motor
11 1N
2 1O
IE
ED
C14
Combination SW

System Outline

With the ignition SW turned on, the current flows to TERMINAL 8 of the front wiper and washer SW, TERMINAL 2 of the washer motor and TERMINAL 2 of the front wiper motor through the WIPER fuse.

1. Low Speed Position

With the front wiper SW turned to LO position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

2. High Speed Position

With the front wiper SW turned to HI position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 9 to TERMINAL 4 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at high speed.

3. INT Position

With the front wiper SW turned to INT position, the wiper relay operates and current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 5 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper operates. Intermittent operation is controlled by a condenser charge and discharge function in the relay.

4. Mist Position

With the front wiper SW turned to MIST position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

5. Washer Interlocking Operation

With the washer SW pulled to ON position, the current flows from the WIPER fuse to TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 4 of the front wiper and washer SW to TERMINAL 5 to GROUND and causes the washer motor to run and the window washer to spray. Simultaneously, current flows from the WIPER fuse to TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND, causing the wiper to function.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C14	30	F9	28	W1	29

: Junction Block and Wire Harness Connector

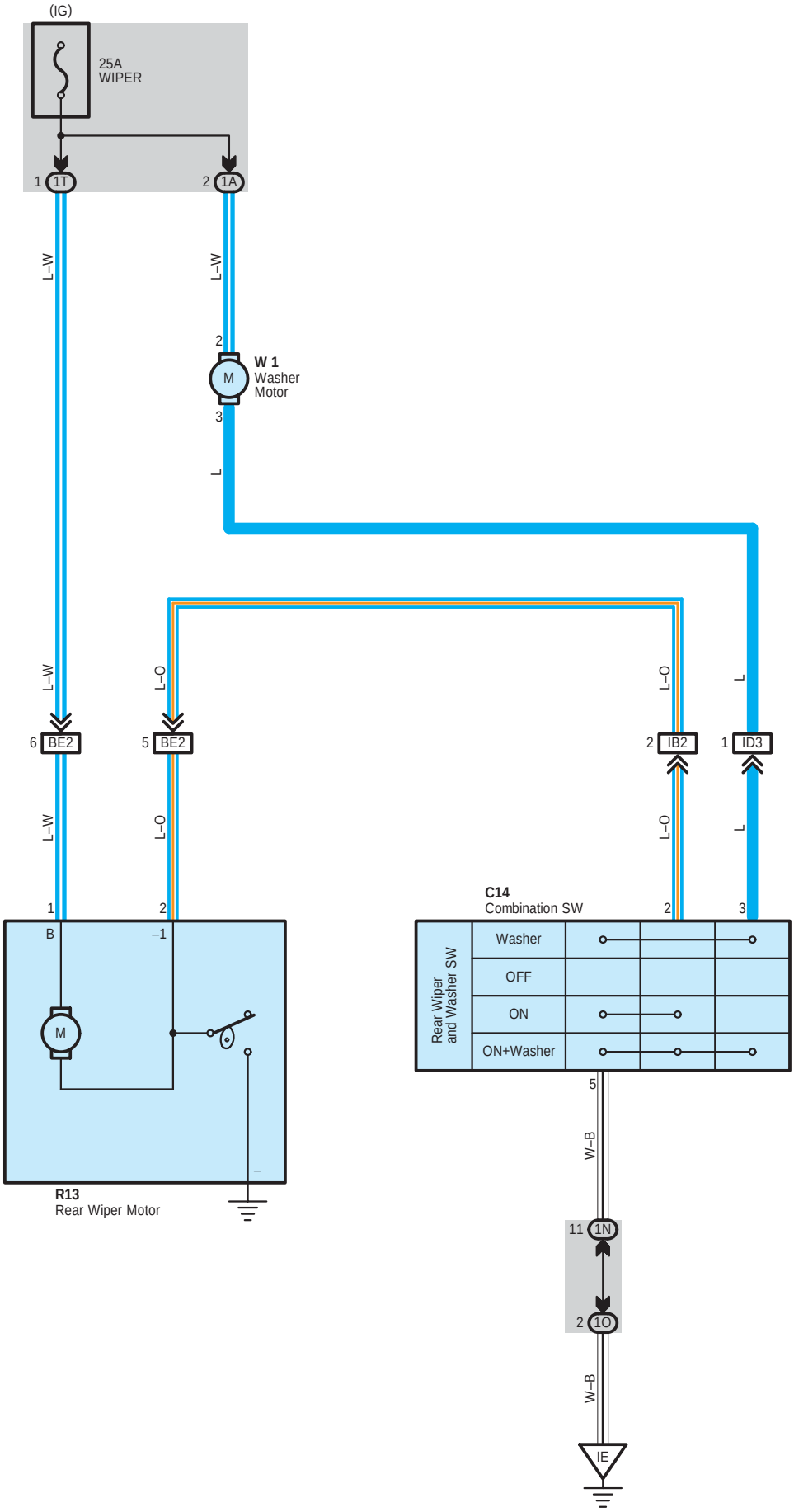
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel


(IG)
25A
WIPER
1
1T
2
1A
L–W
L–W
2
W 1
Washer
Motor
M
3
L
L–W
L–O
L–O
L
6
BE2
5
BE2
2
IB2
1
ID3
L–W
L–O
L–O
L
1
2
2
3
B
–1
C14
Combination SW
Rear Wiper
and Washer SW
Washer
OFF
ON
ON+Washer
M
R13
Rear Wiper Motor
5
W–B
11
1N
2
1O
W–B
IE

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 through the WIPER fuse.

1. Rear Wiper Normal Operation

With the ignition SW turned on and rear wiper and washer SW turned to ON position, current flows to TERMINAL 1 of the rear wiper motor to TERMINAL 2 of the rear wiper and washer SW to TERMINAL 5 to GROUND. Causing the rear wiper motor operated.

2. Washer Operation

With the ignition SW turned on and the rear wiper and washer SW turned to ON position, when the wiper SW is turned further (ON+ washer position), current flows to TERMINAL 2 of the washer motor to TERMINAL 3 to TERMINAL 3 of the rear wiper and washer SW to TERMINAL 5 to GROUND so that the washer motor rotates and the window washer emits a water, only while the switch is fully turned.
When the wiper SW is off and then turned to washer position (Wiper off side), only the washer operates.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C14	30	R13	33	W1	29

: Junction Block and Wire Harness Connector

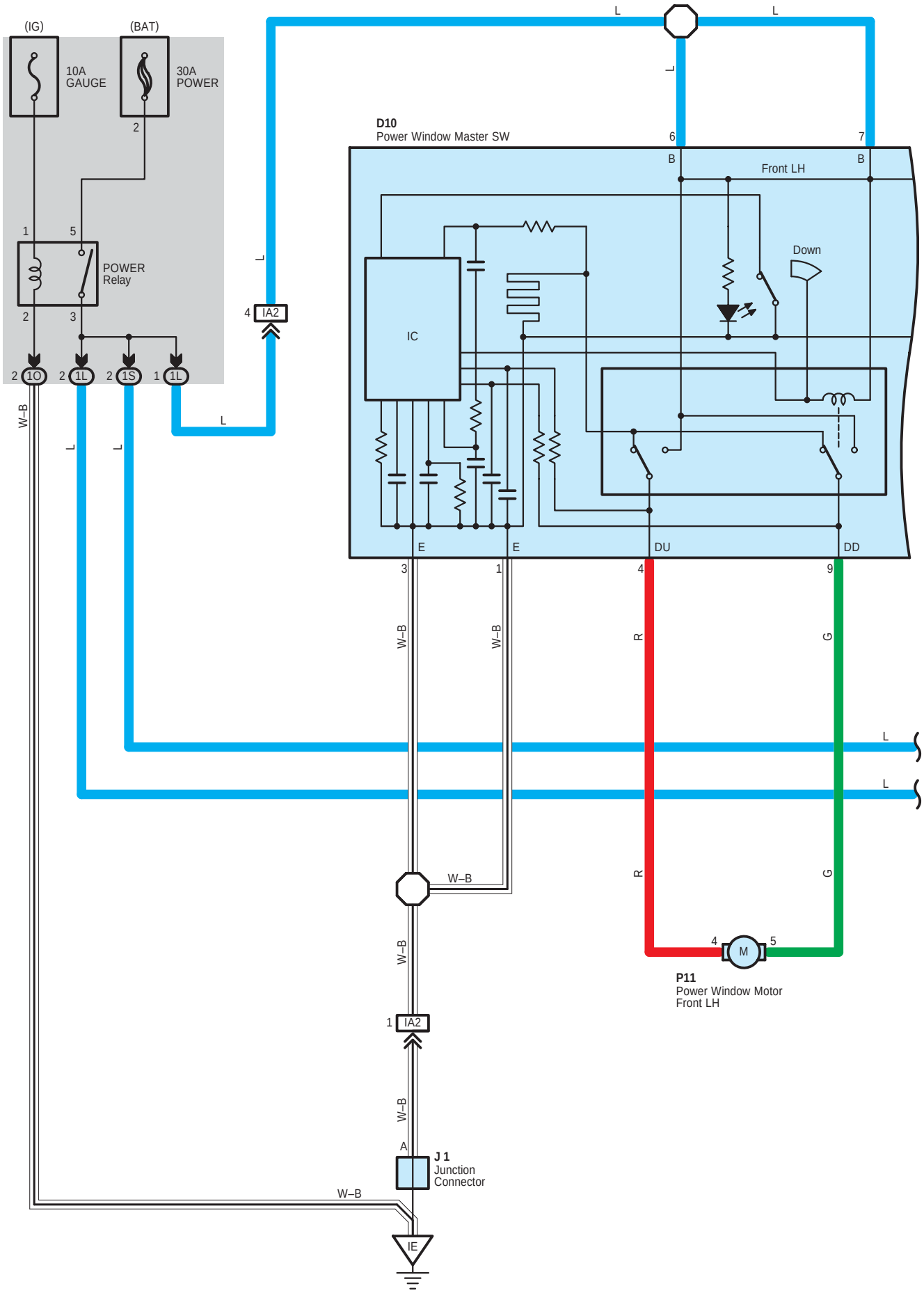
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

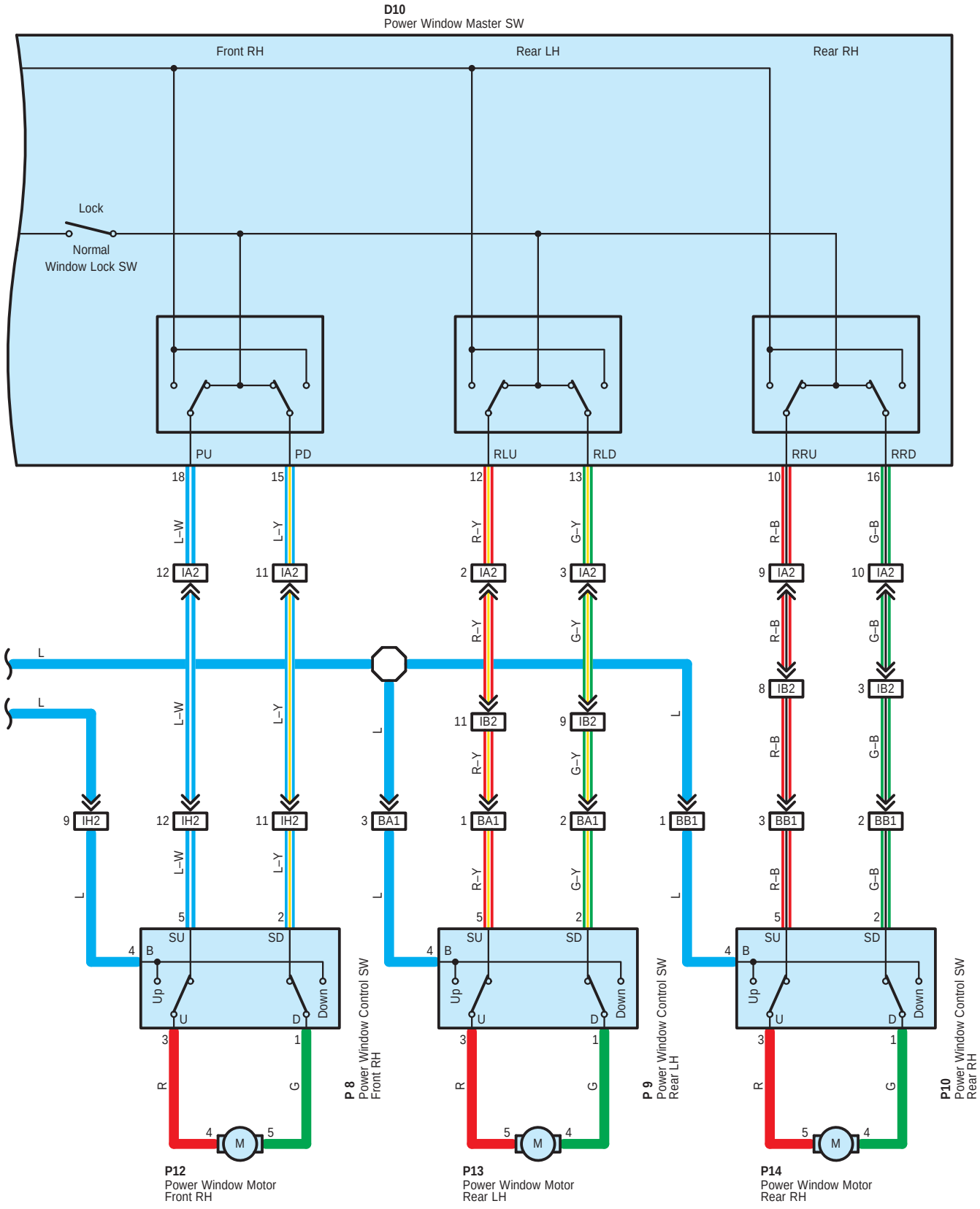
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
BE2	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel


(IG)
(BAT)
10A
GAUGE
30A
POWER
2
1
5
POWER
Relay
2
3
4
IA2
2 1O
2 1L
2 1S
1 1L
W–B
L
D10
Power Window Master SW
6
7
B
B
Front LH
Down
IC
E
E
DU
DD
3
1
4
9
W–B
W–B
R
G
L
L
W–B
R
G
4
M
5
P11
Power Window Motor
Front LH
1
IA2
W–B
A
J 1
Junction
Connector
W–B
IE


D10
Power Window Master SW
Front RH
Rear LH
Rear RH
Lock
Normal
Window Lock SW
PU
PD
RLU
RLD
RRU
RRD
18
15
12
13
10
16
L–W
L–Y
R–Y
G–Y
R–B
G–B
12 IA2
11 IA2
2 IA2
3 IA2
9 IA2
10 IA2
L
11 IB2
9 IB2
8 IB2
3 IB2
9 IH2
12 IH2
11 IH2
3 BA1
1 BA1
2 BA1
1 BB1
3 BB1
2 BB1
5
2
4 B
SU
SD
Up
Down
U
D
3
1
R
G
4
5
M
P 8
Power Window Control SW
Front RH
P 9
Power Window Control SW
Rear LH
P10
Power Window Control SW
Rear RH
P12
Power Window Motor
Front RH
P13
Power Window Motor
Rear LH
P14
Power Window Motor
Rear RH

Power Window

System Outline

When the ignition SW is turned on, the current flows from the GAUGE fuse through the POWER relay to GROUND, thus the POWER relay is turned on and the current flows through the POWER fuse to TERMINAL 5 of the POWER relay to TERMINAL 3 to TERMINAL B of the power window master SW and TERMINAL B of the power window control SW front RH, Rear LH and RH.

1. Manual Operation (Power Window Master SW)

When the power window master SW (Driver's) is pushed down one step, the current flows from TERMINAL B of the power window master SW to TERMINAL DD to TERMINAL 5 of the power window motor front LH to TERMINAL 4 to TERMINAL DU of the power window master SW to TERMINAL E to GROUND, and the motor rotates to open the window. When the power window master SW is pulled up one step, the current flows from TERMINAL B of the power window master SW to TERMINAL DU to TERMINAL 4 of the power window motor front LH to TERMINAL 5 to TERMINAL DD of the power window master SW to TERMINAL E to GROUND, and the motor rotates in the opposite direction from open and closes the window. All the other windows are opened/closed by operating the respective power window master SW. When the window lock SW is pushed to the lock 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 attempted, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the passenger's window can not be operated and window lock occurs.

2. Auto Down Operation (Driver's Window)

When the power window master SW (Driver's) is pushed down two steps, the power window master SW determines that it is AUTO operation and the current flows from TERMINAL B of the power window master SW to TERMINAL DD to TERMINAL 5 of the power window motor front LH to TERMINAL 4 to TERMINAL DU of the power window master SW to TERMINAL E to GROUND. Because the hold circuit inside the power window master SW keeps the relay on the down side activated, the power window motor continues operating even if the power window master SW is released. When the driver's window is fully opened, the hold circuit turns off and the relay on the down side turns off, and auto down operation is completed.

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

When the power window master SW (Driver's) is pulled to the up side during auto down operation, a ground circuit opens in the power window master SW and current does not flow from TERMINAL DU of the power window master SW to TERMINAL E, so the motor stops, causing auto down operation to stop. If the power window master SW is pulled continuously, the motor rotates in the up direction in manual up operation.

4. Manual Operation (Power Window Control SW Front RH, Rear LH and RH)

With the power window control SW (Front RH, rear LH or RH) pulled to the up side, current flows from TERMINAL B of the power window control SW to TERMINAL U to power window motor to TERMINAL D of the power window control SW to TERMINAL SD to TERMINAL PD, RLD or RRD of the power window master SW to TERMINAL E to GROUND and rotates the power window motor (Front RH, rear LH or RH) in the up direction. Up operation continues only while the power window control SW is pulled to the up side. When the window descends, the current flowing to the motor flows in the opposite direction, and the motor rotates in reverse. When the window lock SW is pushed to the lock 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 attempted, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the passenger's window can not be operated and window lock occurs.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
D10	32	P9	33	P12	33
J1	31	P10	33	P13	33
P8	33	P11	33	P14	33

: Junction Block and Wire Harness Connector

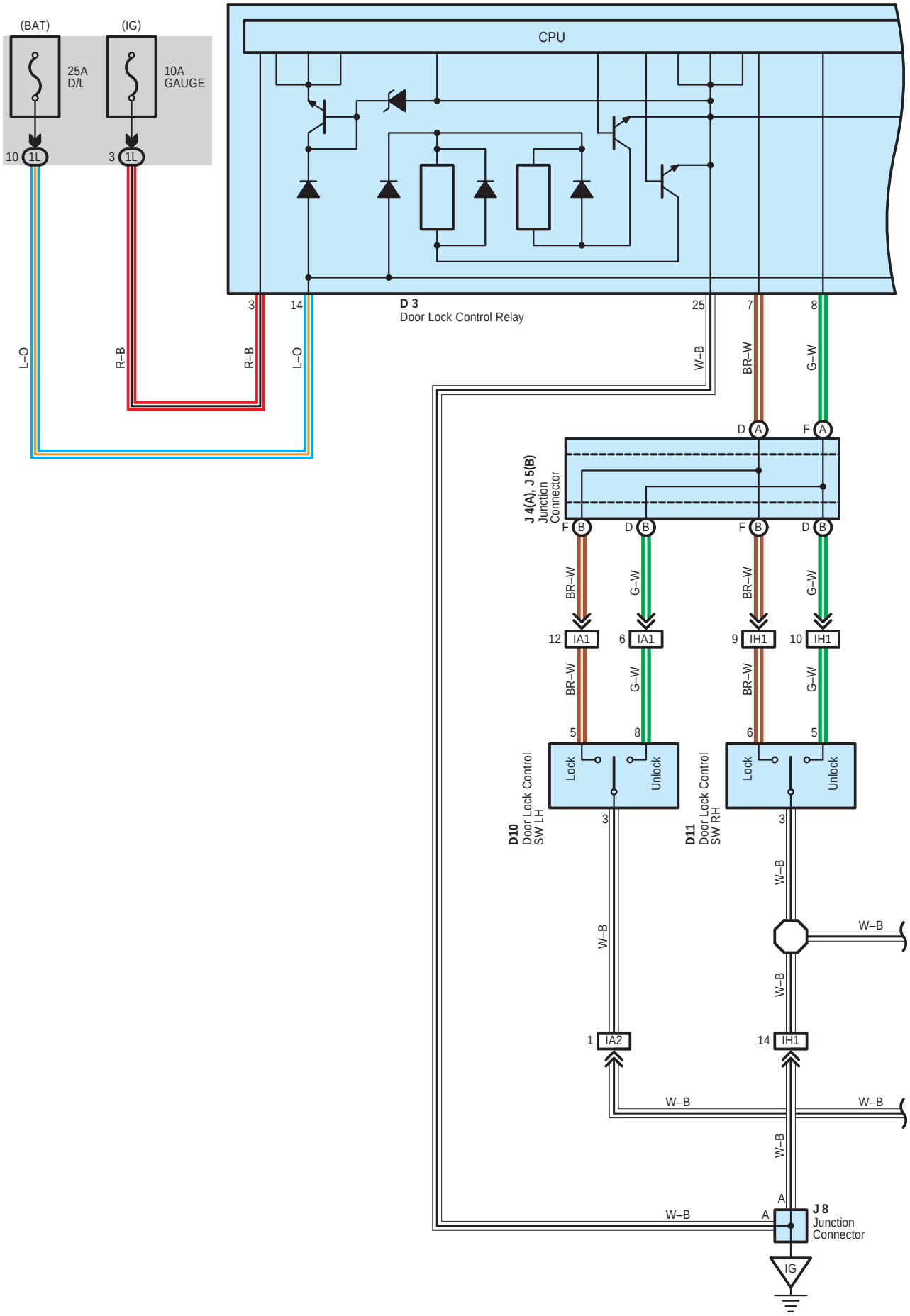
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

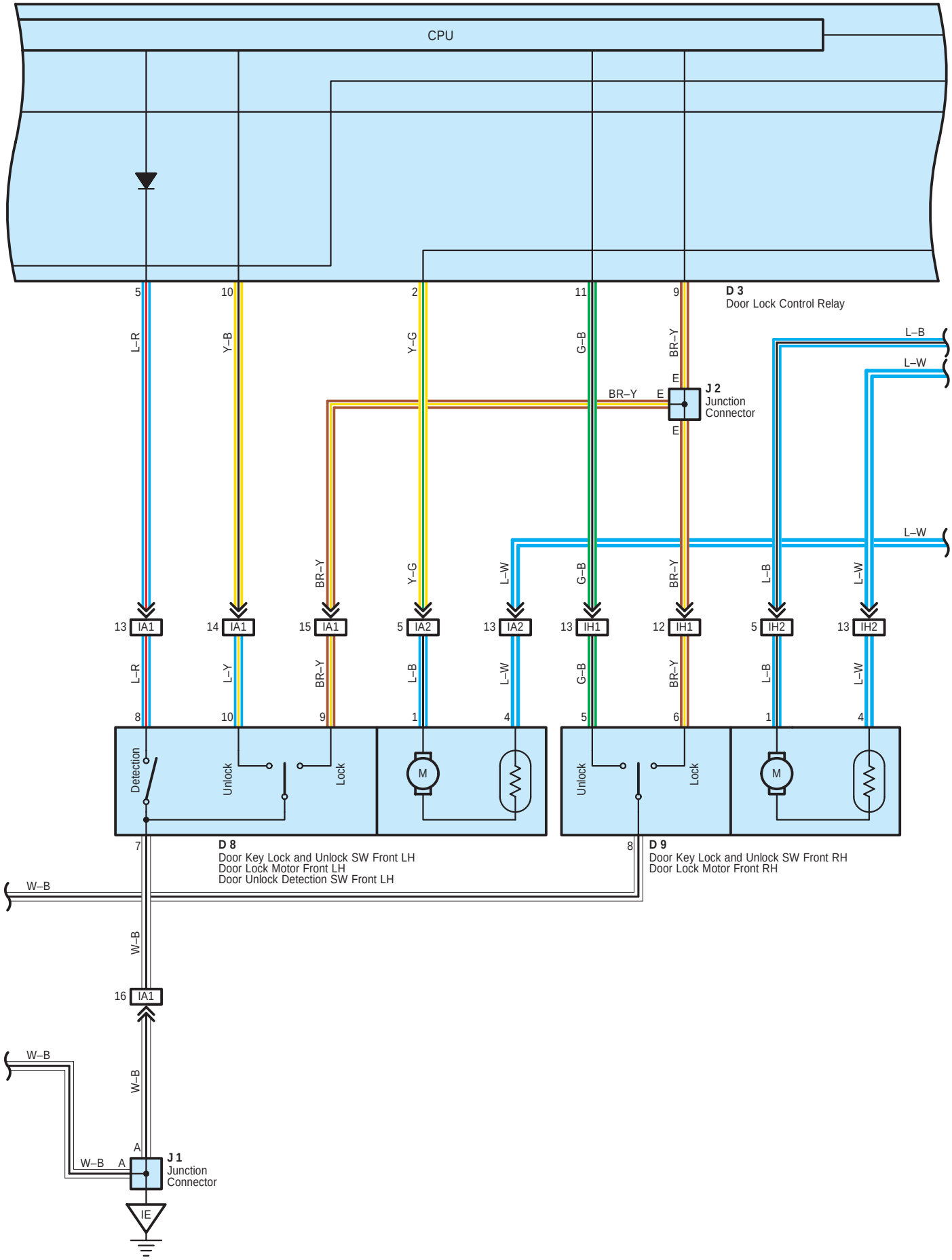
: Connector Joining Wire Harness and Wire Harness

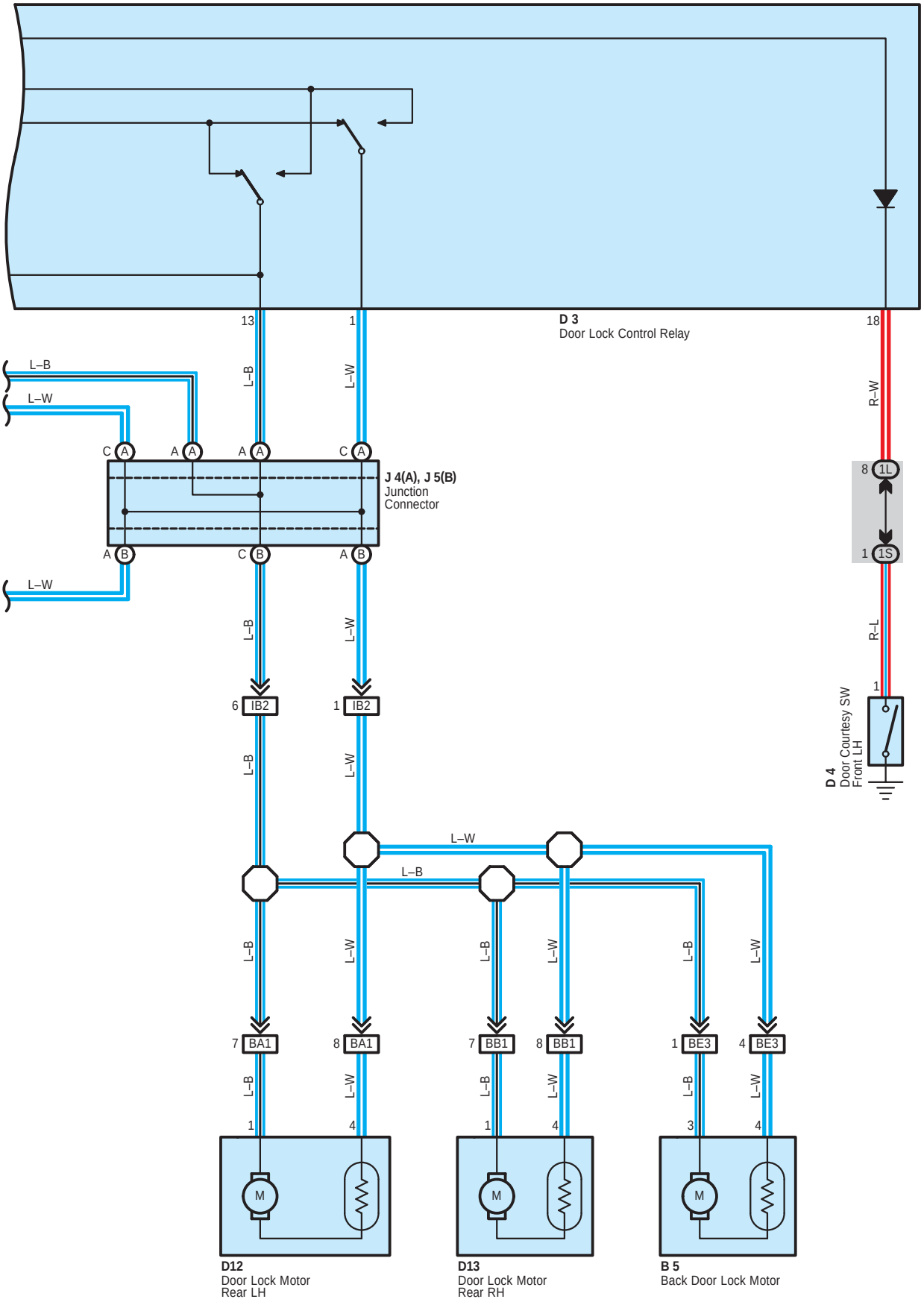
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IH2	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	38	Rear Door LH Wire and Floor Wire (Center Pillar LH)
BB1	38	Rear Door RH Wire and Floor Wire (Center Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel


(BAT)
(IG)
25A
D/L
10A
GAUGE
10
1L
3
1L
CPU
D 3
Door Lock Control Relay
3
14
25
7
8
L–O
R–B
R–B
L–O
W–B
BR–W
G–W
D
A
F
A
J 4(A), J 5(B)
Junction
Connector
F
B
D
B
F
B
D
B
BR–W
G–W
BR–W
G–W
12
IA1
6
IA1
9
IH1
10
IH1
BR–W
G–W
BR–W
G–W
5
8
6
5
Lock
Unlock
Lock
Unlock
D10
Door Lock Control
SW LH
D11
Door Lock Control
SW RH
3
3
W–B
W–B
W–B
W–B
1
IA2
14
IH1
W–B
W–B
W–B
A
W–B
A
J 8
Junction
Connector
IG


CPU
5
10
2
11
9
D 3
Door Lock Control Relay
L–R
Y–B
Y–G
G–B
BR–Y
L–B
L–W
BR–Y
E
J 2
Junction
Connector
E
E
L–W
BR–Y
Y–G
L–W
G–B
BR–Y
L–B
L–W
13 IA1
14 IA1
15 IA1
5 IA2
13 IA2
13 IH1
12 IH1
5 IH2
13 IH2
L–R
L–Y
BR–Y
L–B
L–W
G–B
BR–Y
L–B
L–W
8
10
9
1
4
5
6
1
4
Detection
Unlock
Lock
M
Unlock
Lock
M
7
D 8
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
8
D 9
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
W–B
W–B
16 IA1
W–B
W–B
A
W–B
A
J 1
Junction
Connector
IE


D 3
Door Lock Control Relay
13
1
18
L–B
L–W
R–W
J 4(A), J 5(B)
Junction
Connector
8 1L
1 1S
R–L
D 4
Door Courtesy SW
Front LH
6 IB2
1 IB2
7 BA1
8 BA1
7 BB1
8 BB1
1 BE3
4 BE3
M
D12
Door Lock Motor
Rear LH
D13
Door Lock Motor
Rear RH
B 5
Back Door Lock Motor

System Outline

The current always flows to TERMINAL 14 of the door lock control relay through the D/L fuse.

1. Manual Lock Operation

When the door lock control SW or door key lock and unlock SW are operated to LOCK position, a lock signal is input to TERMINAL 7 or 9 of the door lock control relay and causes the door lock control relay to function. The current flows from TERMINAL 14 of the door lock control relay to TERMINAL 1 to the door lock motors to TERMINALS 2 and 13 of the door lock control relay to TERMINAL 25 to GROUND and the door lock motors locks the door.

2. Manual Unlock Operation

When the door lock control SW or door key lock and unlock SW are operated to UNLOCK position, an unlock signal is input to TERMINAL 8, 10 or 11 of the door lock control relay and causes the door lock control relay to function. The current flows from TERMINAL 14 of the door lock control relay to TERMINALS 2 and 13 to the door lock motors to TERMINAL 1 of the door lock control relay to TERMINAL 25 to GROUND and the door lock motors unlocks the door.

3. Double Operation Unlock Operation

When the door key lock and unlock SW front LH is turned to the unlock side, only the driver's door is unlocked. By turning the door key lock and unlock SW front LH to the unlock side, a signal is input to TERMINAL 10 of the door lock control relay, and if the signal is input again within 3 seconds by turning the SW to the unlock side again, current flows from TERMINAL 13 of the door lock control relay to the door lock motors to TERMINAL 1 of the door lock control relay to TERMINAL 25 to GROUND, causing all the other doors are unlocked.

○ : Parts Location

Code	See Page	Code	See Page	Code		See Page
B5	32	D10	32	J2		31
D3	30	D11	32	J4	A	31
D4	32	D12	32	J5	B	31
D8	32	D13	32	J8		31
D9	32	J1	31			

: Junction Block and Wire Harness Connector

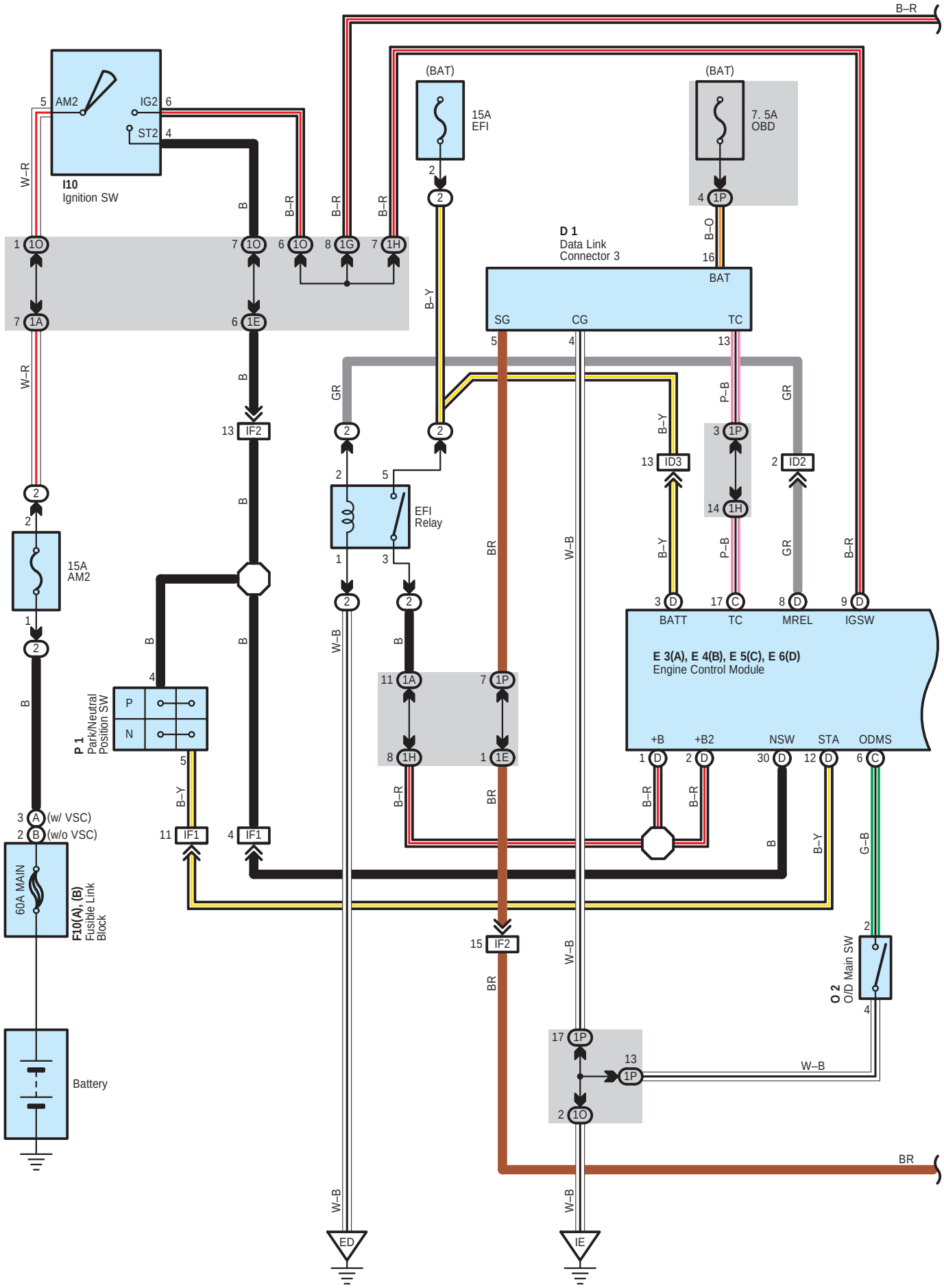
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

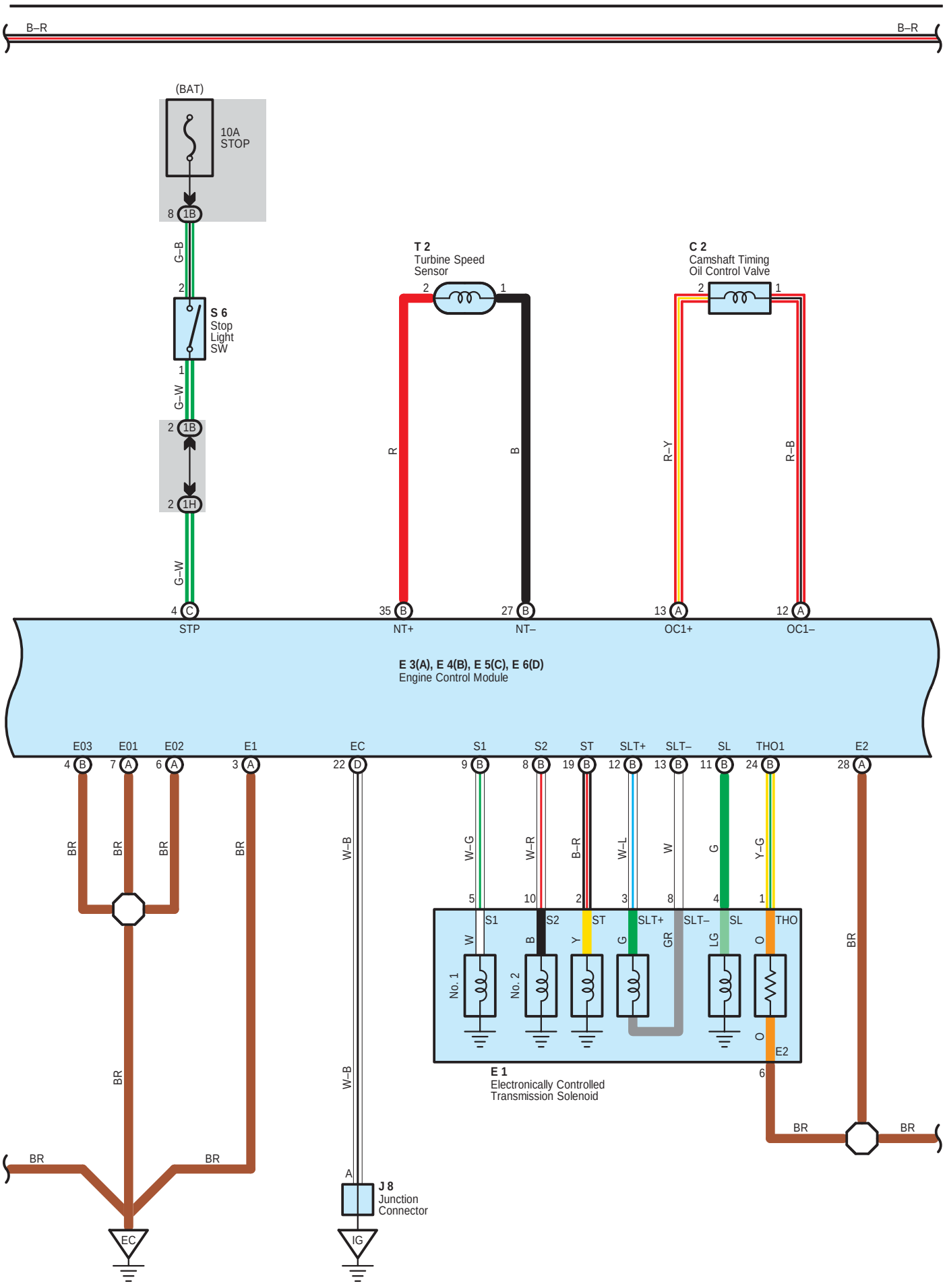
: Connector Joining Wire Harness and Wire Harness

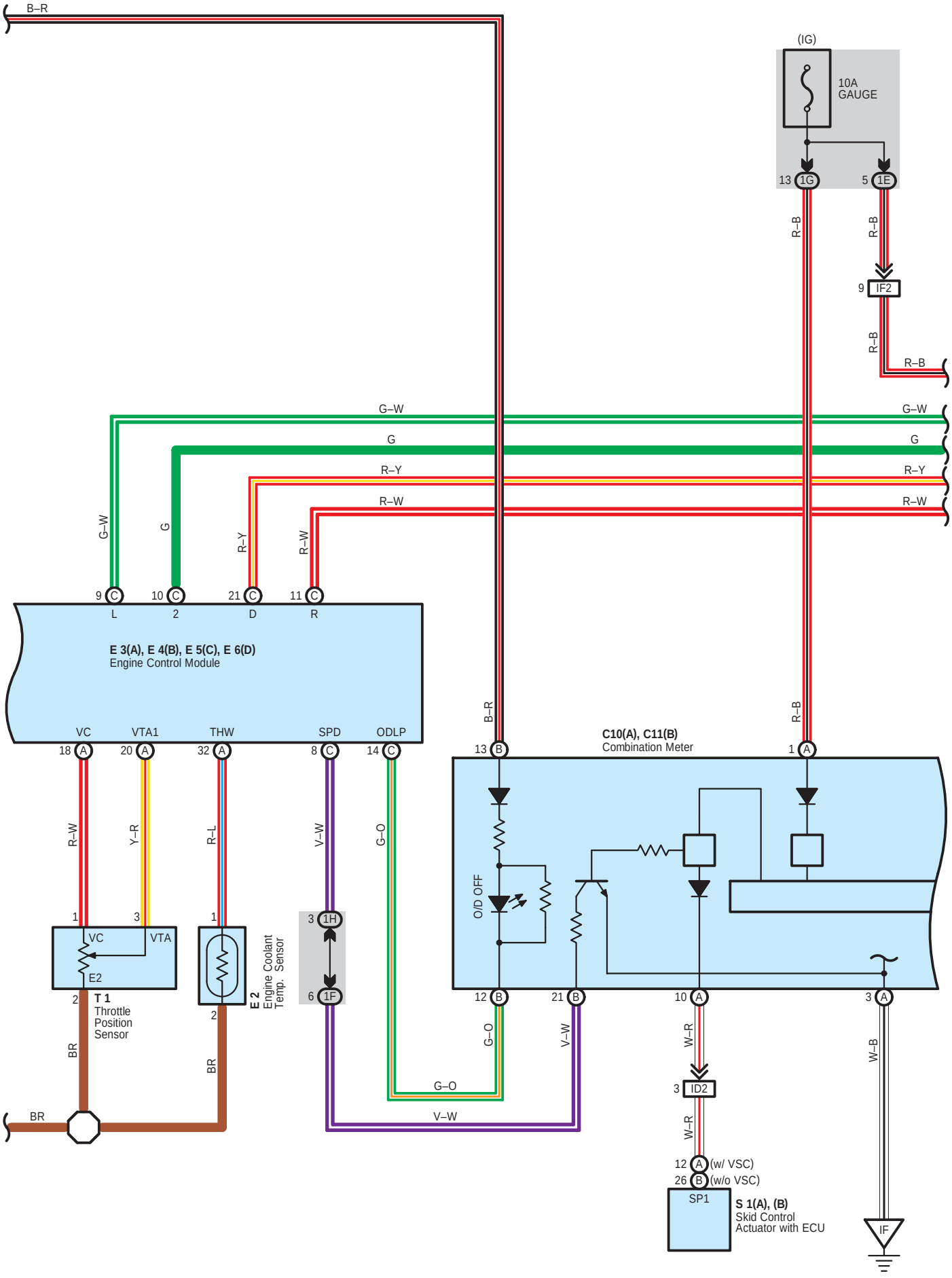
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IB2	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IH1	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH2		
BA1	38	Rear Door LH Wire and Floor Wire (Center Pillar LH)
BB1	38	Rear Door RH Wire and Floor Wire (Center Pillar RH)
BE3	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)

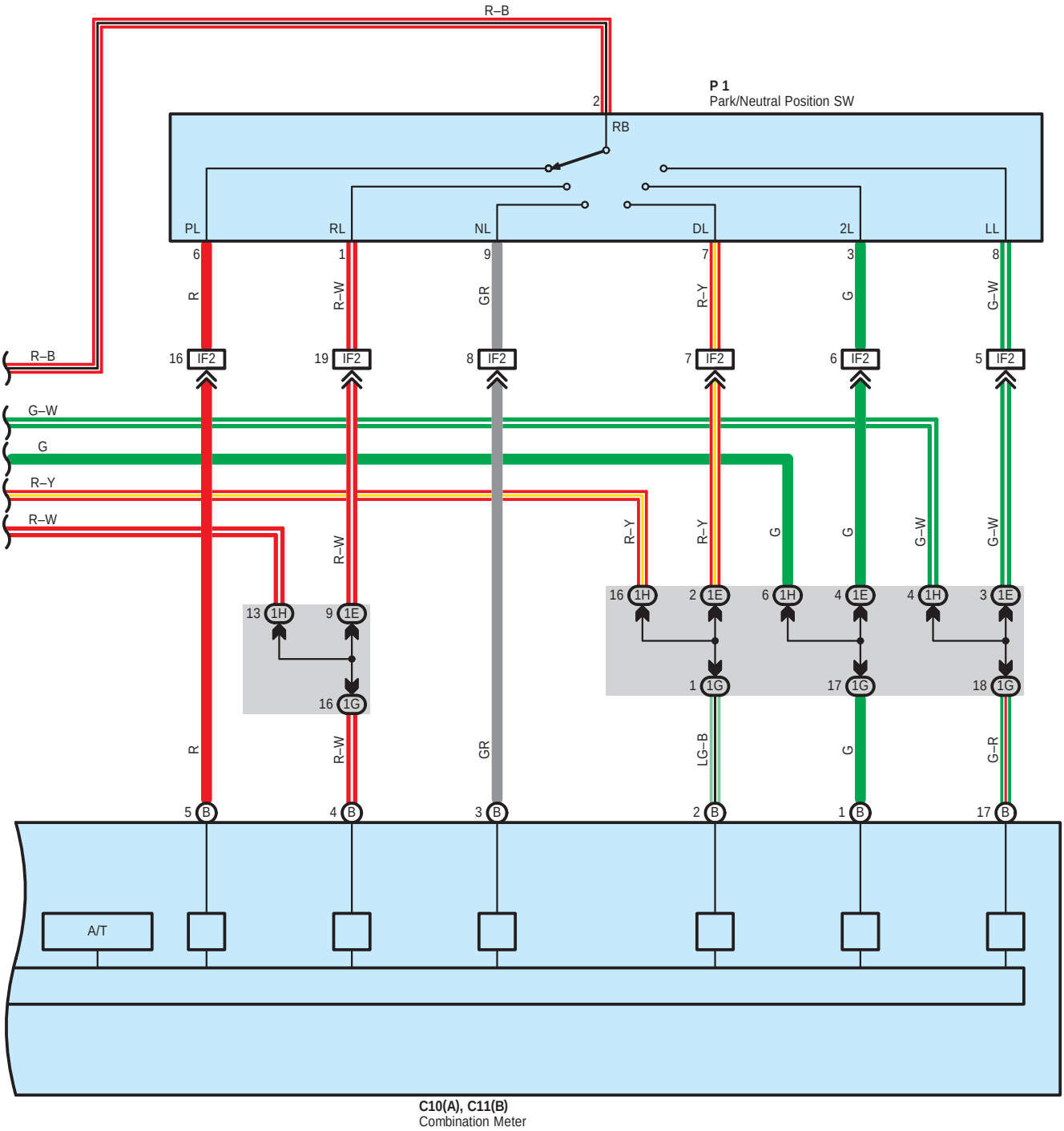
: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IG	36	Right Kick Panel


B–R
(BAT)
15A
EFI
(BAT)
7. 5A
OBD
I10
Ignition SW
AM2
IG2
ST2
D 1
Data Link
Connector 3
BAT
SG
CG
TC
EFI
Relay
15A
AM2
P 1
Park/Neutral
Position SW
(w/ VSC)
(w/o VSC)
60A MAIN
F10(A), (B)
Fusible Link
Block
Battery
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
BATT
TC
MREL
IGSW
+B
+B2
NSW
STA
ODMS
O 2
O/D Main SW
ED
IE


B–R
B–R
(BAT)
10A
STOP
8 1B
G–B
2
S 6
Stop
Light
SW
1
G–W
2 1B
2 1H
G–W
4 C
STP
T 2
Turbine Speed
Sensor
2
1
R
B
35 B
NT+
27 B
NT–
C 2
Camshaft Timing
Oil Control Valve
2
1
R–Y
R–B
13 A
OC1+
12 A
OC1–
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
E03
E01
E02
E1
EC
S1
S2
ST
SLT+
SLT–
SL
THO1
E2
4 B
7 A
6 A
3 A
22 D
9 B
8 B
19 B
12 B
13 B
11 B
24 B
28 A
BR
W–G
W–R
B–R
W–L
W
G
Y–G
BR
5
10
2
3
8
4
1
S1
S2
ST
SLT+
SLT–
SL
THO
W
B
Y
G
GR
LG
O
No. 1
No. 2
O
E2
6
E 1
Electronically Controlled
Transmission Solenoid
BR
BR
BR
BR
BR
BR
W–B
W–B
A
J 8
Junction
Connector
EC
IG


B–R
(IG)
10A
GAUGE
13 1G
5 1E
R–B
9 IF2
G–W
G
R–Y
R–W
9 C L
10 C 2
21 C D
11 C R
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
VC
VTA1
THW
SPD
ODLP
18 A
20 A
32 A
8 C
14 C
C10(A), C11(B)
Combination Meter
13 B
1 A
O/D OFF
12 B
21 B
10 A
3 A
R–W
Y–R
R–L
V–W
G–O
1
3
VC
VTA
E2
T 1
Throttle
Position
Sensor
2
BR
E 2
Engine Coolant
Temp. Sensor
3 1H
6 1F
W–R
W–B
3 ID2
12 A (w/ VSC)
26 B (w/o VSC)
SP1
S 1(A), (B)
Skid Control
Actuator with ECU
IF


R–B
P 1
Park/Neutral Position SW
2
RB
PL
RL
NL
DL
2L
LL
6
1
9
7
3
8
R
R–W
GR
R–Y
G
G–W
R–B
16 IF2
19 IF2
8 IF2
7 IF2
6 IF2
5 IF2
G–W
G
R–Y
R–W
R–Y
R–Y
G
G
G–W
G–W
13 1H
9 1E
16 1G
16 1H
2 1E
6 1H
4 1E
4 1H
3 1E
1 1G
17 1G
18 1G
R
R–W
GR
LG–B
G
G–R
5 B
4 B
3 B
2 B
1 B
17 B
A/T
C10(A), C11(B)
Combination Meter

System Outline

Previous automatic transaxle have selected each gear shift using the mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure and lock–up pressure etc., through the solenoid valve. Engine control module controls each solenoid valve based on the input signals from each sensor, which makes smooth driving possible by shift selection for each gear that is most appropriate to the driving conditions at that time.

1. Gear Shift Operation

During driving, the engine control module selects the shift for each gear which is most appropriate to the driving conditions, based on input signals from the engine coolant temp. sensor to TERMINAL THW of the engine control module, and also the input signals to TERMINAL NT+ of the engine control module from the turbine speed sensor devoted to the direct clutch. Current is then output to the electronically controlled transmission solenoid. When shifting to 1st gear, current flows from TERMINAL S1 of the engine control module to TERMINAL 5 of the electronically controlled transmission solenoid to GROUND, and from TERMINAL S2 of the engine control module to TERMINAL 10 of the electronically controlled transmission solenoid to GROUND, and continuity to solenoids No.1 and No.2 causes the shift.
For the 2nd gear, current flows from TERMINAL S1 of the engine control module to TERMINAL 5 of the electronically controlled transmission solenoid to GROUND, and continuity to the solenoid No.1 causes the shift.
For the 3rd gear, there is no continuity to either No.1 or No.2 solenoid.
Shifting into 4th gear (Overdrive) takes place when current flows from TERMINAL S2 of the engine control module to TERMINAL 10 of the electronically controlled transmission solenoid to GROUND, and continuity to the solenoid No.2 causes the shift.

2. Lock–Up Operation

When the engine control module judges from each signal that lock–up operation conditions have been met, current flows from TERMINAL SL of the engine control module to TERMINAL 4 of the electronically controlled transmission solenoid to GROUND, causing continuity to the lock–up solenoid and causing lock–up operation.

3. Clutch Pressure Control

The electronically controlled transmission solenoid is controlled by the current from TERMINAL SL of the engine control module, and controls the accumulator hydraulic pressure.
As a result, the clutch to hydraulic pressure is adjusted precisely, and allows stable shift change.

4. Line Pressure Control

The electronically controlled transmission solenoid is controlled by the current from TERMINAL SLT+ of the engine control module, and controls the throttle hydraulic pressure.
As a result, the line pressure can be controlled precisely, and the to hydraulic pressure is adjusted according to the shift change condition, and allows smooth shift change.

5. Shifting Control in Uphill/Downhill Traveling

This system determines whether the vehicle is traveling on an incline or decline from the throttle opening angle, vehicle acceleration condition and brake pedal operation, and controls the shift up to O/D to allow smooth driving.

6. Clutch to Clutch Control

When shifting from the 3rd gear to the 4th gear, the current from the engine control module TERMINAL ST controls the electronically controlled transmission solenoid, to control the drain orifice hydraulic pressure (Switch orifice). The electronically controlled transmission solenoid is also controlled by the current from the engine control module TERMINAL SLT+, to adjust the hydraulic pressure precisely, which ensures smooth shifting.

7. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine control module, the engine control module operates and continuity to the lock–up solenoid is cut.

8. Overdrive Circuit

* Overdrive on
  When the engine is turned on from ignition off, the engine control module turns the O/D on. When the O/D main SW is pushed while the O/D is off, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned on by the engine control module. In this case, the engine control module controls the gear shift according to the vehicle's driving condition, using the O/D range. At this time, the O/D off indicator light is off.
* Overdrive off
  When the O/D main SW is pushed while the O/D is on, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned off. At this time, the current flows through the O/D off indicator light to TERMINAL ODLP of the engine control module. As a result, the O/D off indicator light turns on, and the engine control module controls the gear shift according to the vehicle's driving condition, without using the O/D range.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C2	28	E4 B	30	O2	31
C10 A	30	E5 C	30	P1	29
C11 B	30	E6 D	30	S1 A	29
D1	30	F10 A	28	S1 B	29
E1	28	F10 B	28	S6	31
E2	28	I10	31	T1	29
E3 A	30	J8	31	T2	29

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

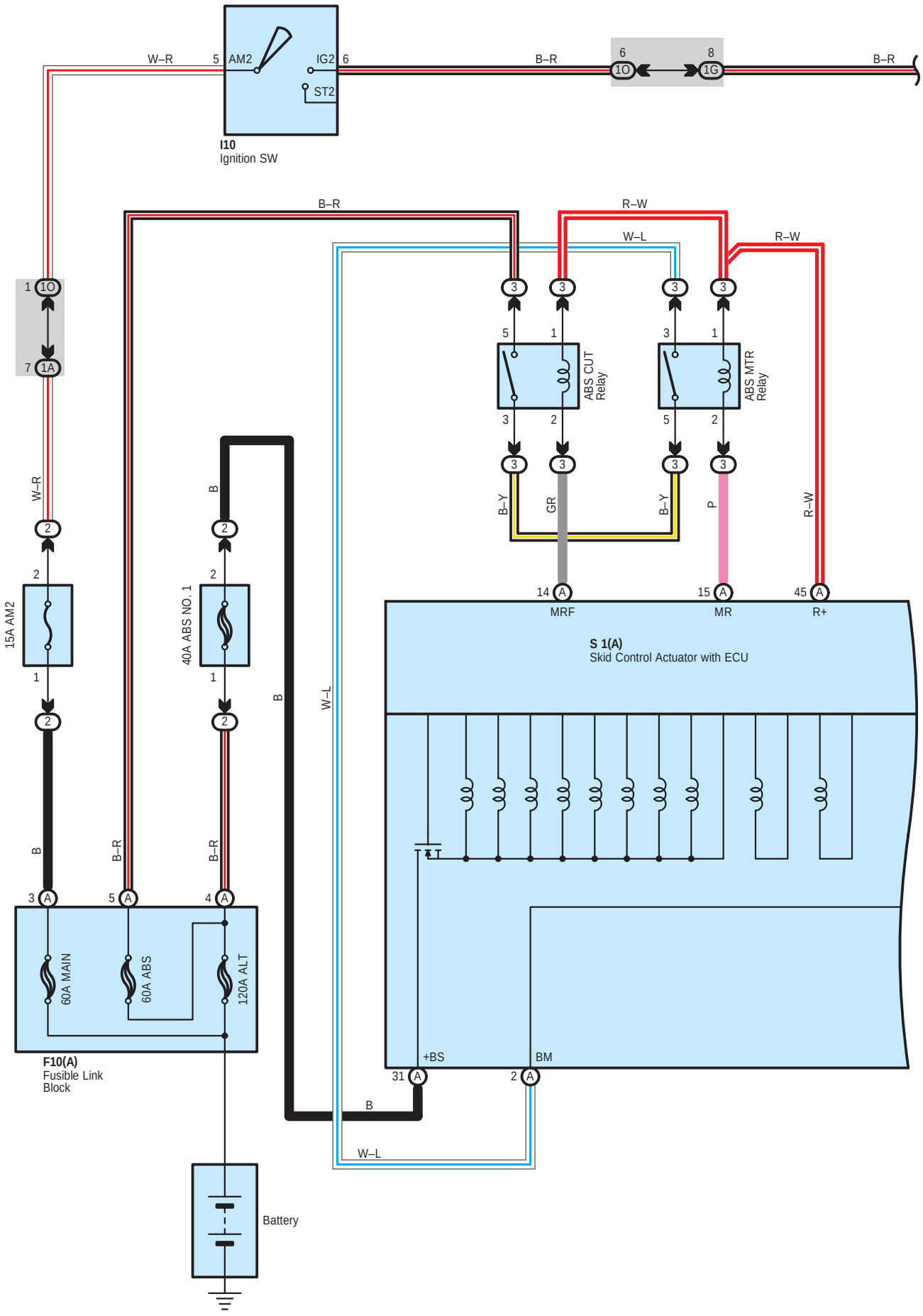
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1H		
1O		
1P		

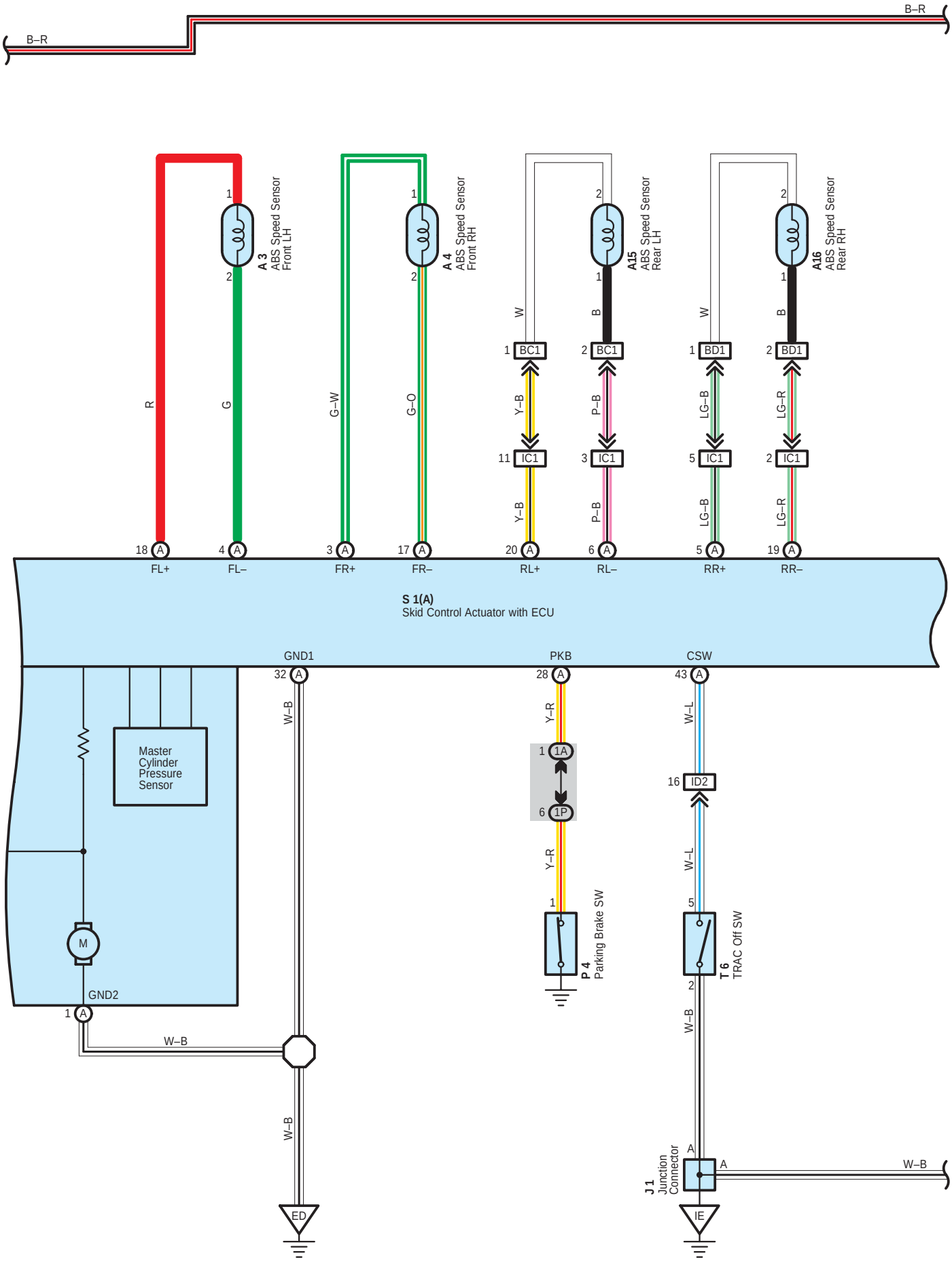
: Connector Joining Wire Harness and Wire Harness

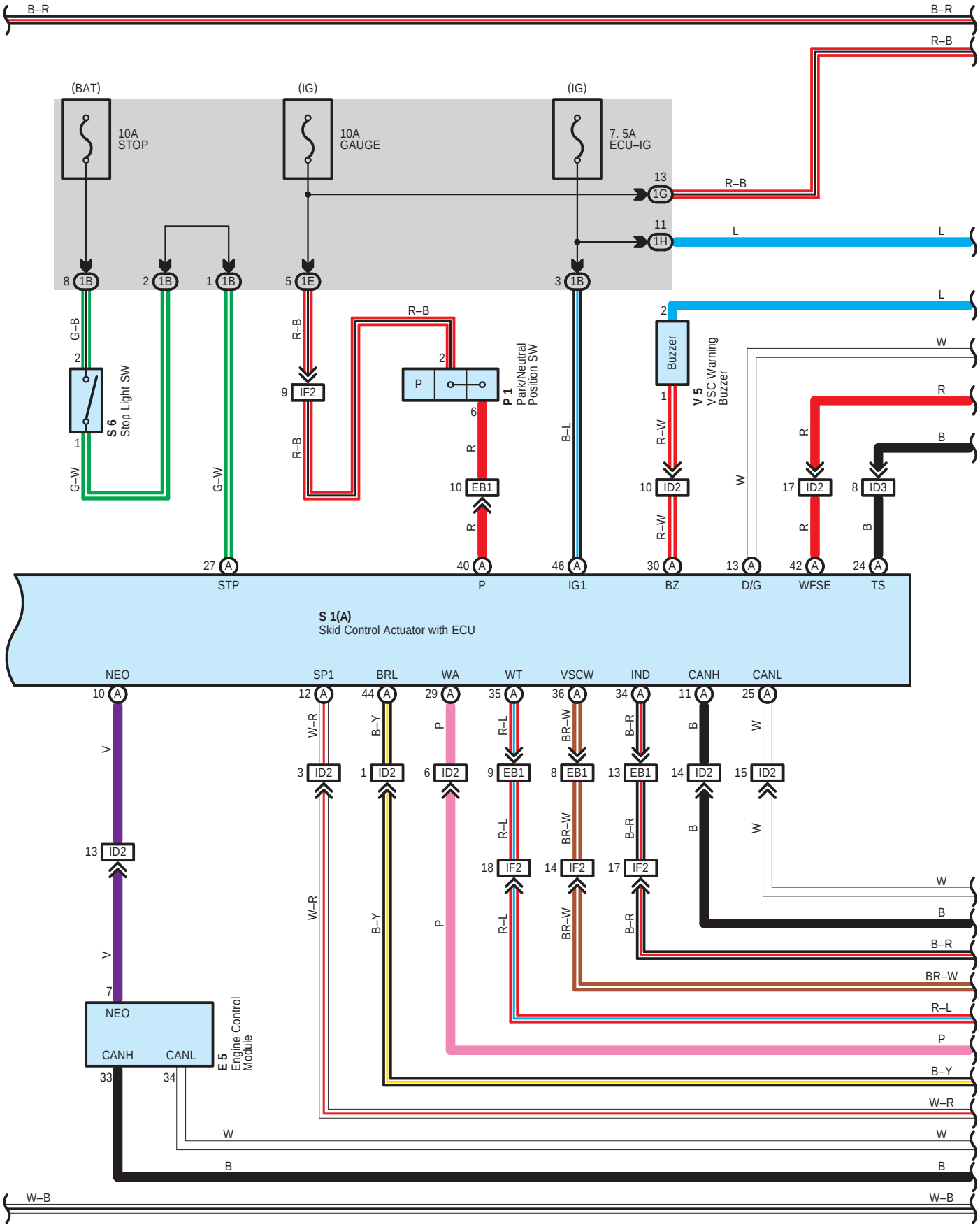
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID3		
IF1	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
IF2		

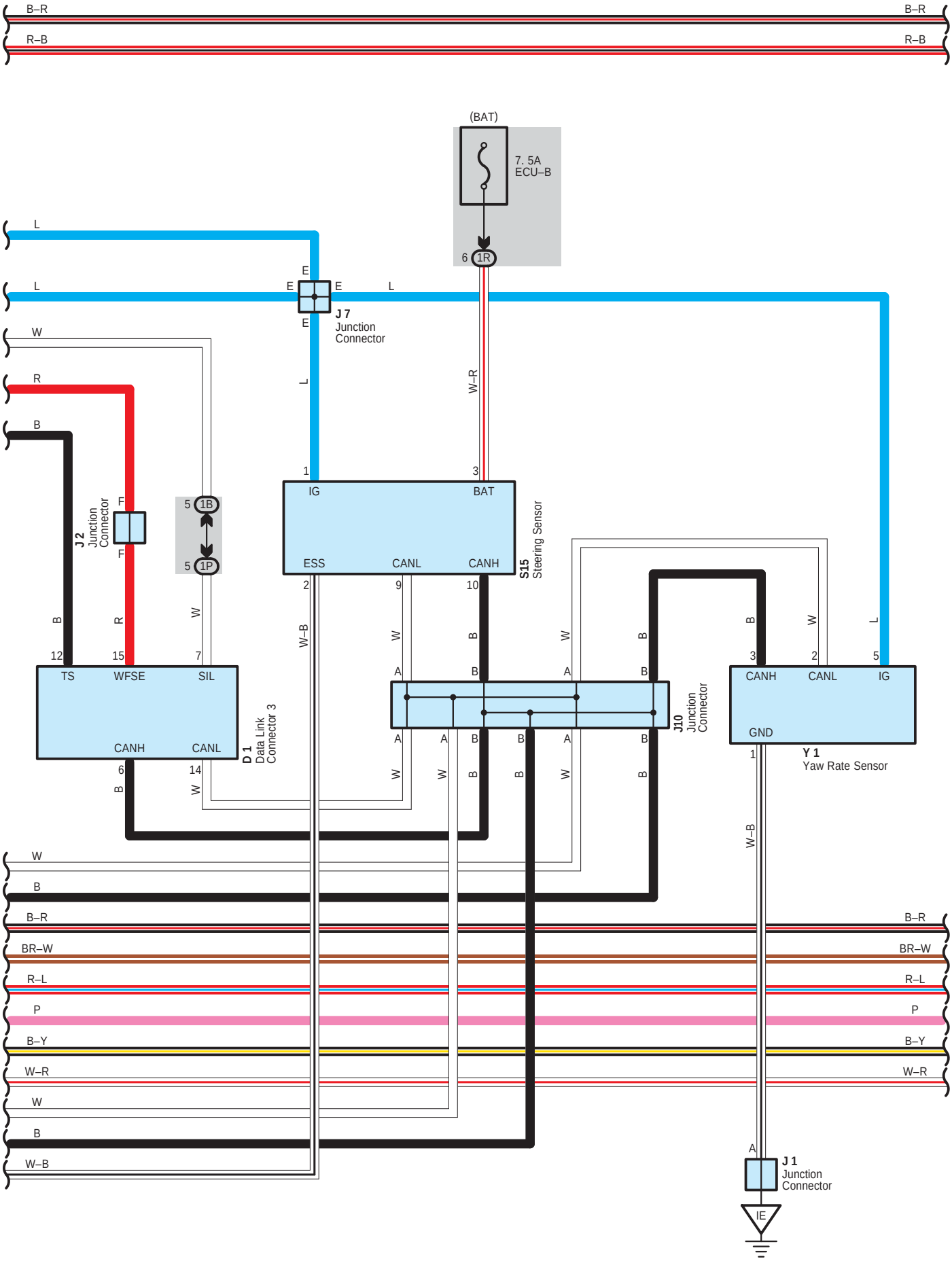
: Ground Points

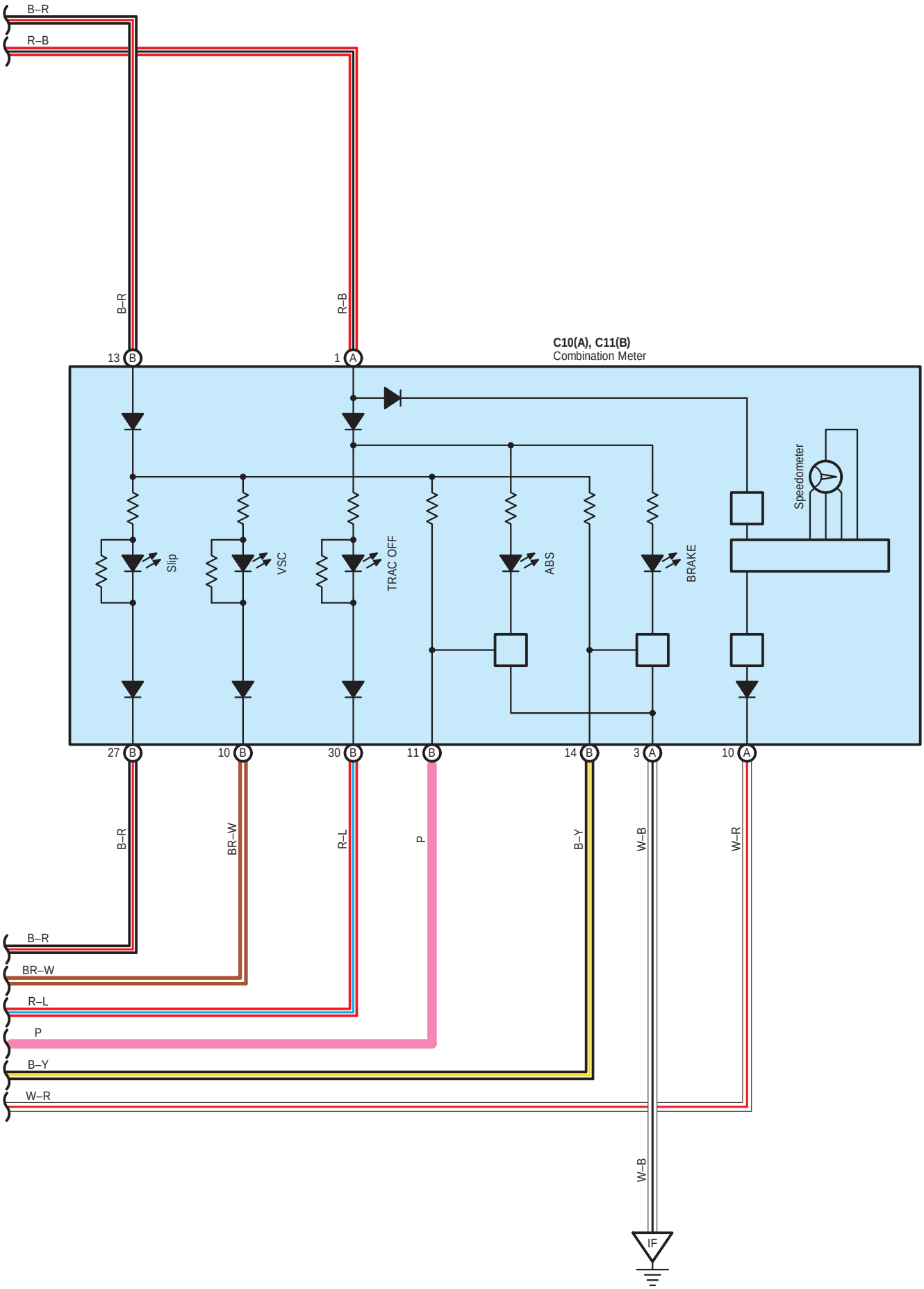
Code	See Page	Ground Points Location
EC	34	Cylinder Head
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
IG	36	Right Kick Panel


W–R
5
AM2
IG2
6
ST2
I10
Ignition SW
B–R
6
1O
8
1G
B–R
B–R
R–W
W–L
R–W
1
1O
7
1A
3
5
1
ABS CUT Relay
3
2
3
1
ABS MTR Relay
5
2
B–Y
GR
B–Y
P
R–W
W–R
B
2
2
2
2
15A AM2
40A ABS NO. 1
1
1
2
2
B
B–R
B–R
W–L
3
A
5
A
4
A
60A MAIN
60A ABS
120A ALT
F10(A)
Fusible Link Block
14
A
MRF
15
A
MR
45
A
R+
S 1(A)
Skid Control Actuator with ECU
+BS
BM
31
A
2
A
B
W–L
Battery


B–R
B–R
A 3
ABS Speed Sensor
Front LH
A 4
ABS Speed Sensor
Front RH
A15
ABS Speed Sensor
Rear LH
A16
ABS Speed Sensor
Rear RH
R
G
G–W
G–O
W
B
Y–B
P–B
LG–B
LG–R
BC1
BD1
IC1
18 FL+
4 FL–
3 FR+
17 FR–
20 RL+
6 RL–
5 RR+
19 RR–
S 1(A)
Skid Control Actuator with ECU
GND1
PKB
CSW
32
28
43
W–B
Y–R
W–L
1A
1P
ID2
Master
Cylinder
Pressure
Sensor
M
GND2
P 4
Parking Brake SW
T 6
TRAC Off SW
J 1
Junction
Connector
ED
IE


B–R
R–B
(BAT)
(IG)
(IG)
10A
STOP
10A
GAUGE
7. 5A
ECU–IG
13
1G
11
1H
L
8 1B
2 1B
1 1B
5 1E
3 1B
G–B
S 6
Stop Light SW
G–W
R–B
9 IF2
P 1
Park/Neutral
Position SW
6
R
10 EB1
B–L
2
Buzzer
1
R–W
V 5
VSC Warning
Buzzer
W
R
B
17 ID2
8 ID3
27 A
STP
40 A
P
46 A
IG1
30 A
BZ
13 A
D/G
42 A
WFSE
24 A
TS
S 1(A)
Skid Control Actuator with ECU
NEO
SP1
BRL
WA
WT
VSCW
IND
CANH
CANL
10 A
12 A
44 A
29 A
35 A
36 A
34 A
11 A
25 A
V
13 ID2
7
3 ID2
1 ID2
6 ID2
9 EB1
8 EB1
13 EB1
14 ID2
15 ID2
W–R
B–Y
P
R–L
BR–W
B–R
B
W
18 IF2
14 IF2
17 IF2
NEO
CANH
CANL
E 5
Engine Control
Module
33
34
W–B


B–R
R–B
(BAT)
7. 5A
ECU–B
6 1R
L
E
J 7
Junction
Connector
W
R
B
W–R
1
3
IG
BAT
ESS
CANL
CANH
S15
Steering Sensor
J 2
Junction
Connector
5 1B
5 1P
2
9
10
W–B
W
B
A
12
15
7
TS
WFSE
SIL
CANH
CANL
D 1
Data Link
Connector 3
6
14
J10
Junction
Connector
3
2
5
CANH
CANL
IG
GND
Y 1
Yaw Rate Sensor
1
BR–W
R–L
P
B–Y
J 1
Junction
Connector
IE


B–R
R–B
B–R
R–B
13 B
1 A
C10(A), C11(B)
Combination Meter
Slip
VSC
TRAC OFF
ABS
BRAKE
Speedometer
27 B
10 B
30 B
11 B
14 B
3 A
10 A
B–R
BR–W
R–L
P
B–Y
W–B
W–R
B–R
BR–W
R–L
P
B–Y
W–R
W–B
IF

System Outline

1. ABS Operation

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

2. Traction Control Operation

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

3. VSC Operation

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

To reduce large over–steering :

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

To reduce large under–steering :

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

TRAC OFF SW

The traction control SW is used to stop the TRAC function. After the engine is started, the TRAC system is stopped (Turned off) and the TRAC OFF indicator light lights up. When the TRAC OFF SW is pressed again, the TRAC system enters the stand–by mode. If the engine is stopped and restarted, the TRAC system enters the stand–by mode regardless of the traction control SW.

VSC system cannot cut off by using TRAC OFF SW.

4. Mutual System Control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift–down.

VSC system operation indication

The Slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

5. Fail Safe Function

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	28	F10 A	28	S1 A	29
A4	28	I10	31	S6	31
A15	32	J1	31	S15	31
A16	32	J2	31	T6	31
C10 A	30	J7	31	V5	31
C11 B	30	J10	31	Y1	31
D1	30	P1	29		
E5	30	P4	31		

: **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)
3	23	ABS R/B (Engine Compartment Right)

: **Junction Block and Wire Harness Connector**

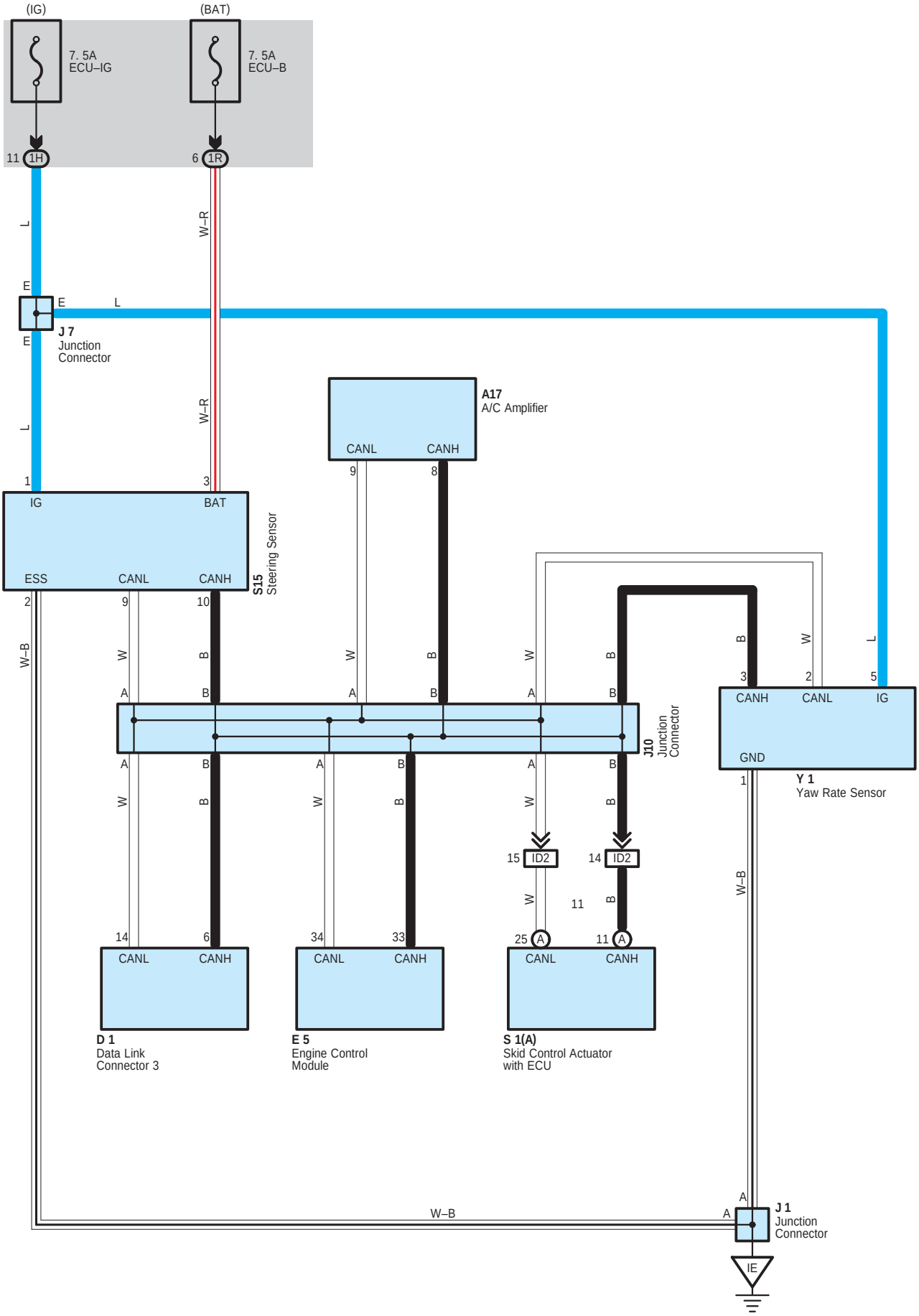
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1O		
1P		
1R		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	34	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IC1	36	Engine Room Main Wire and Floor Wire (Left Side of the Cowl Panel)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID3		
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
BC1	38	Skid Control Sensor Rear LH Wire and Floor Wire (Front Side of the Quarter Wheel House Inner Panel LH)
BD1	38	Skid Control Sensor Rear RH Wire and Floor Wire (Front Side of the Quarter Wheel House Inner Panel RH)

: **Ground Points**

Code	See Page	Ground Points Location
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH


(IG)
(BAT)
7. 5A
ECU–IG
7. 5A
ECU–B
11 1H
6 1R
L
W–R
E
E
L
E
J 7
Junction
Connector
W–R
L
A17
A/C Amplifier
CANL
CANH
9
8
1
3
IG
BAT
ESS
CANL
CANH
S15
Steering Sensor
2
9
10
W–B
W
B
W
B
W
B
A
B
A
B
A
B
J10
Junction
Connector
B
W
L
3
2
5
CANH
CANL
IG
GND
Y 1
Yaw Rate Sensor
1
W–B
A
B
A
B
A
B
W
B
W
B
W
B
15 ID2
14 ID2
11
W
B
14
6
34
33
25 A
11 A
CANL
CANH
CANL
CANH
CANL
CANH
D 1
Data Link
Connector 3
E 5
Engine Control
Module
S 1(A)
Skid Control Actuator
with ECU
W–B
A
A
J 1
Junction
Connector
IE

System Outline

Multiplex communication system (CAN) uses a serial communication protocol and communicates with a differential voltage. In this network system, TERMINALS CANH and CANL are used for communication between the ECUs and sensors, and excellent data communication speed and communication error detecting facility are provided.

This system is working for the following systems:
* ABS
* Air Conditioning
* Engine Control
* TRAC
* VSC

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A17	30	J1	31	S1 A	29
D1	30	J7	31	S15	31
E5	30	J10	31	Y1	31

: Junction Block and Wire Harness Connector

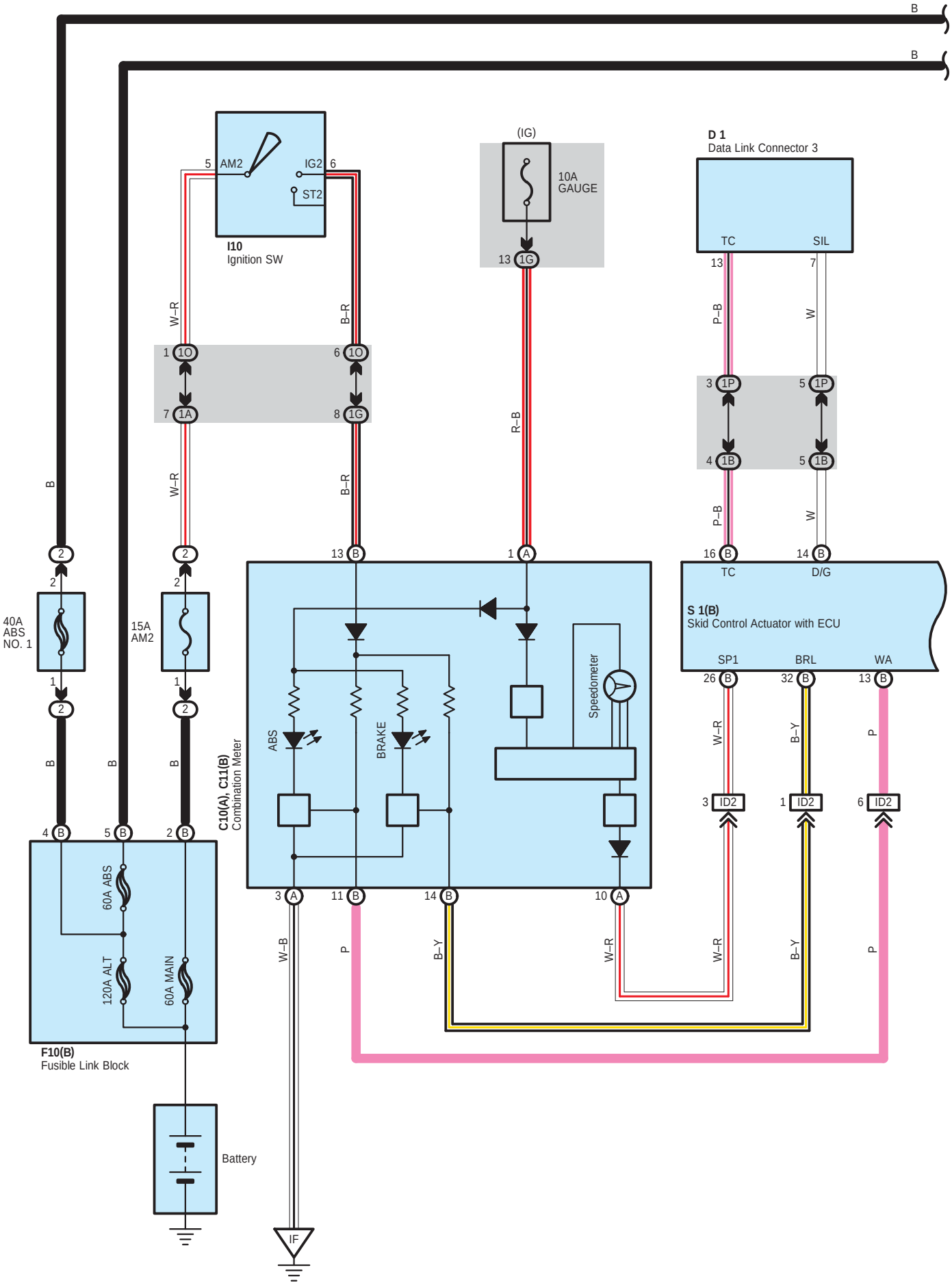
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1R		

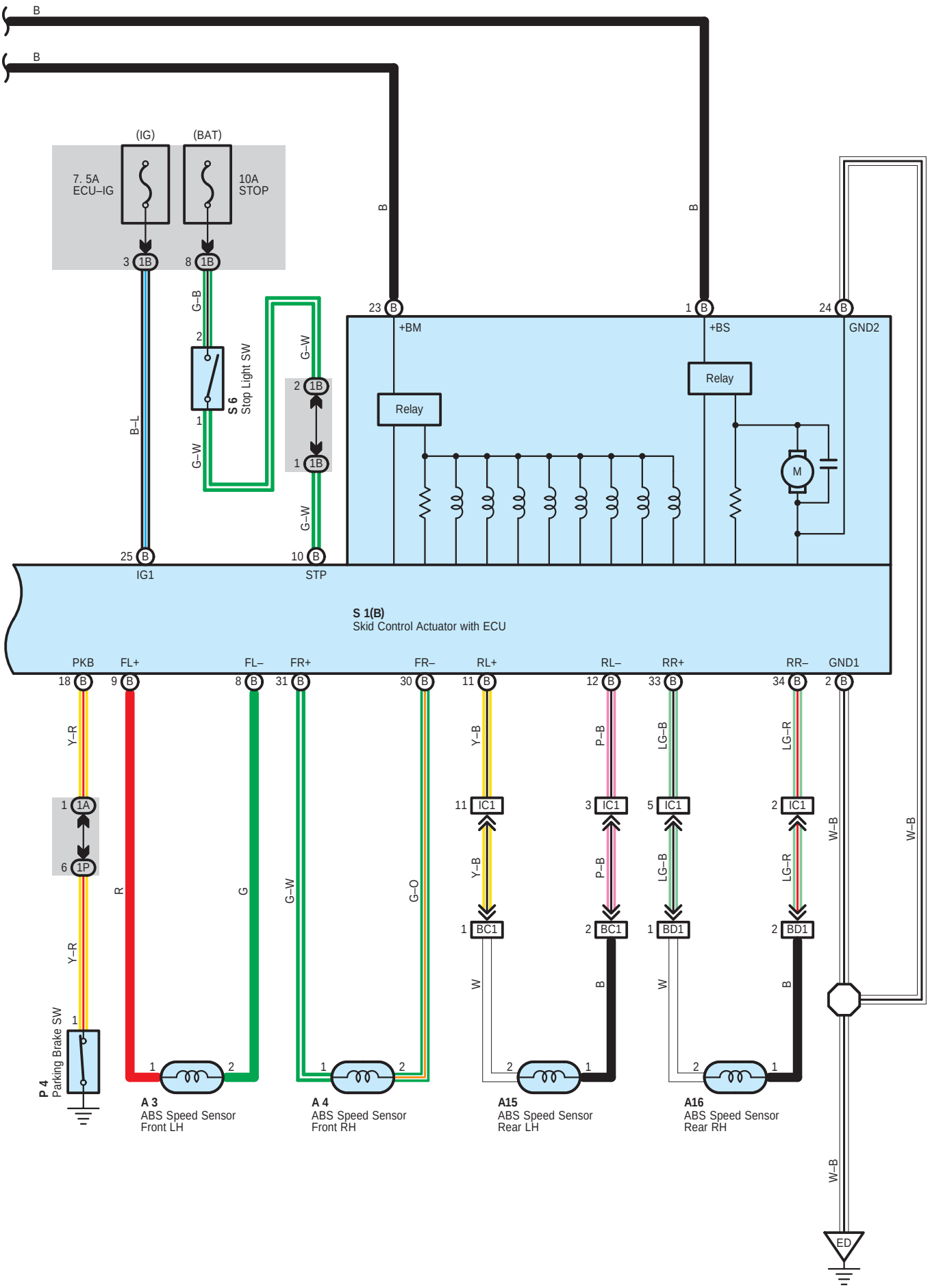
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel


B
B
I10
Ignition SW
5 AM2
IG2 6
ST2
(IG)
10A
GAUGE
13 1G
D 1
Data Link Connector 3
TC
SIL
13
7
P–B
W
3 1P
5 1P
4 1B
5 1B
P–B
W
16 B
14 B
TC
D/G
S 1(B)
Skid Control Actuator with ECU
SP1
BRL
WA
26 B
32 B
13 B
W–R
B–Y
P
3 ID2
1 ID2
6 ID2
W–R
B–Y
P
W–R
B–Y
P
W–B
IF
W–R
B–R
1 1O
7 1A
6 1O
8 1G
R–B
13 B
1 A
2
2
40A
ABS
NO. 1
15A
AM2
1
2
B
4 B
5 B
2 B
60A ABS
120A ALT
60A MAIN
F10(B)
Fusible Link Block
Battery
C10(A), C11(B)
Combination Meter
ABS
BRAKE
Speedometer
3 A
11 B
14 B
10 A


B
B
(IG)
(BAT)
7. 5A
ECU–IG
10A
STOP
3 1B
8 1B
B
B
G–B
2
S 6
Stop Light SW
1
G–W
B–L
2 1B
1 1B
G–W
G–W
23 B
1 B
24 B
+BM
+BS
GND2
Relay
Relay
M
25 B
IG1
10 B
STP
S 1(B)
Skid Control Actuator with ECU
PKB
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
GND1
18 B
9 B
8 B
31 B
30 B
11 B
12 B
33 B
34 B
2 B
Y–R
1 1A
6 1P
Y–R
1
P 4
Parking Brake SW
R
G
G–W
G–O
Y–B
11 IC1
Y–B
1 BC1
W
P–B
3 IC1
P–B
2 BC1
B
LG–B
5 IC1
LG–B
1 BD1
W
LG–R
2 IC1
LG–R
2 BD1
B
W–B
W–B
W–B
ED
1
2
A 3
ABS Speed Sensor
Front LH
A 4
ABS Speed Sensor
Front RH
A15
ABS Speed Sensor
Rear LH
A16
ABS Speed Sensor
Rear RH

ABS without VSC

System Outline

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

1. Input Signal

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control actuator with ECU.

(2) Stop light SW signal

A signal is input to TERMINAL STP of the skid control actuator with ECU when the brake pedal is depressed.

2. System Operation

During sudden braking, the skid control actuator with ECU which has signals input from each sensor lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir.
The pump inside the skid control actuator with ECU is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of vehicle wheels.
If the skid control actuator with 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.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	28	C10 A	30	I10	31
A4	28	C11 B	30	P4	31
A15	32	D1	30	S1 B	29
A16	32	F10 B	28	S6	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1P		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	36	Engine Room Main Wire and Floor Wire (Left Side of the Cowl Panel)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
BC1	38	Skid Control Sensor Rear LH Wire and Floor Wire (Front Side of the Quarter Wheel House Inner Panel LH)
BD1	38	Skid Control Sensor Rear RH Wire and Floor Wire (Front Side of the Quarter Wheel House Inner Panel RH)

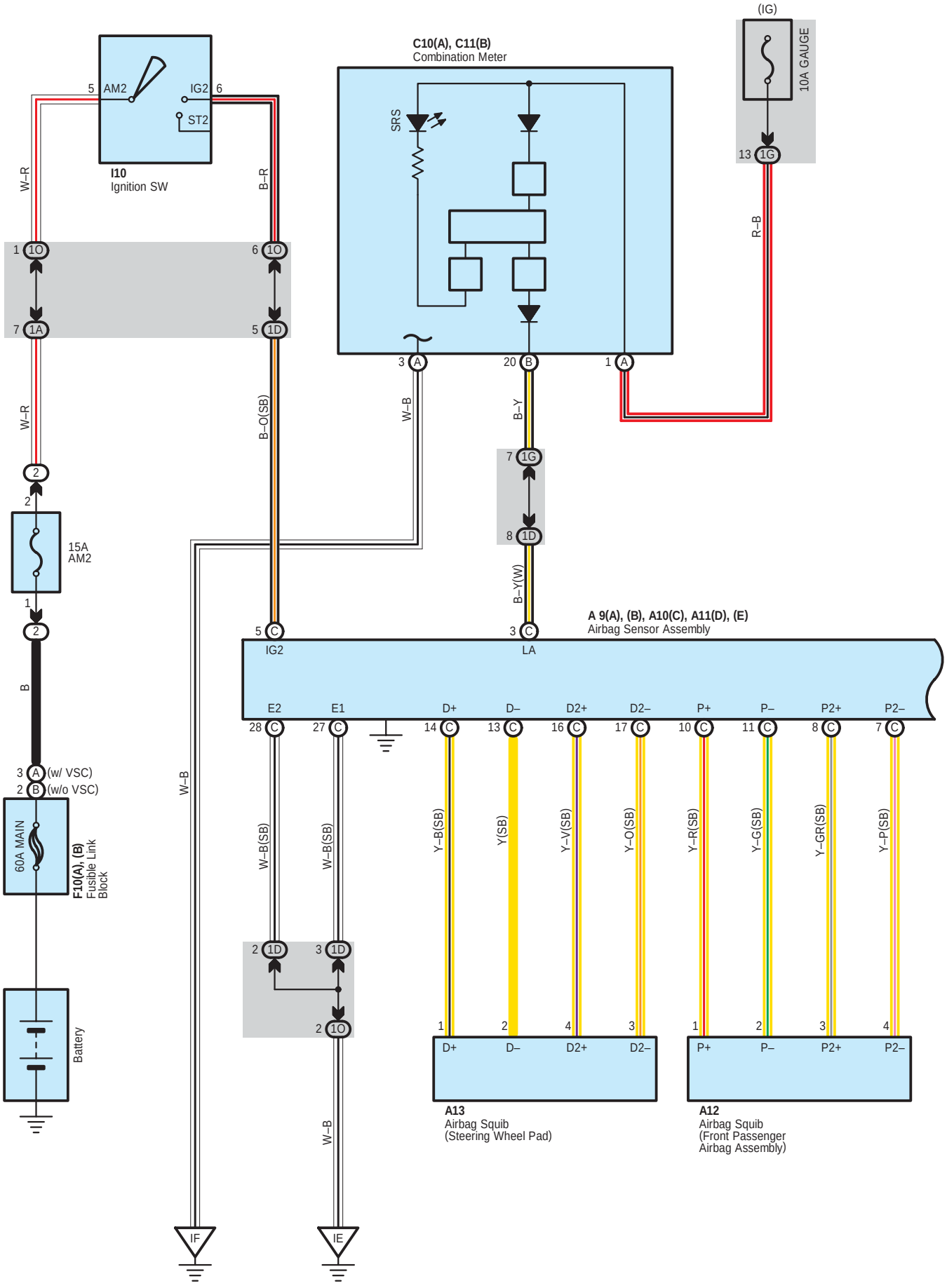
: Ground Points

Code	See Page	Ground Points Location
ED	34	Front Fender Apron LH
IF	36	Instrument Panel Brace LH

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

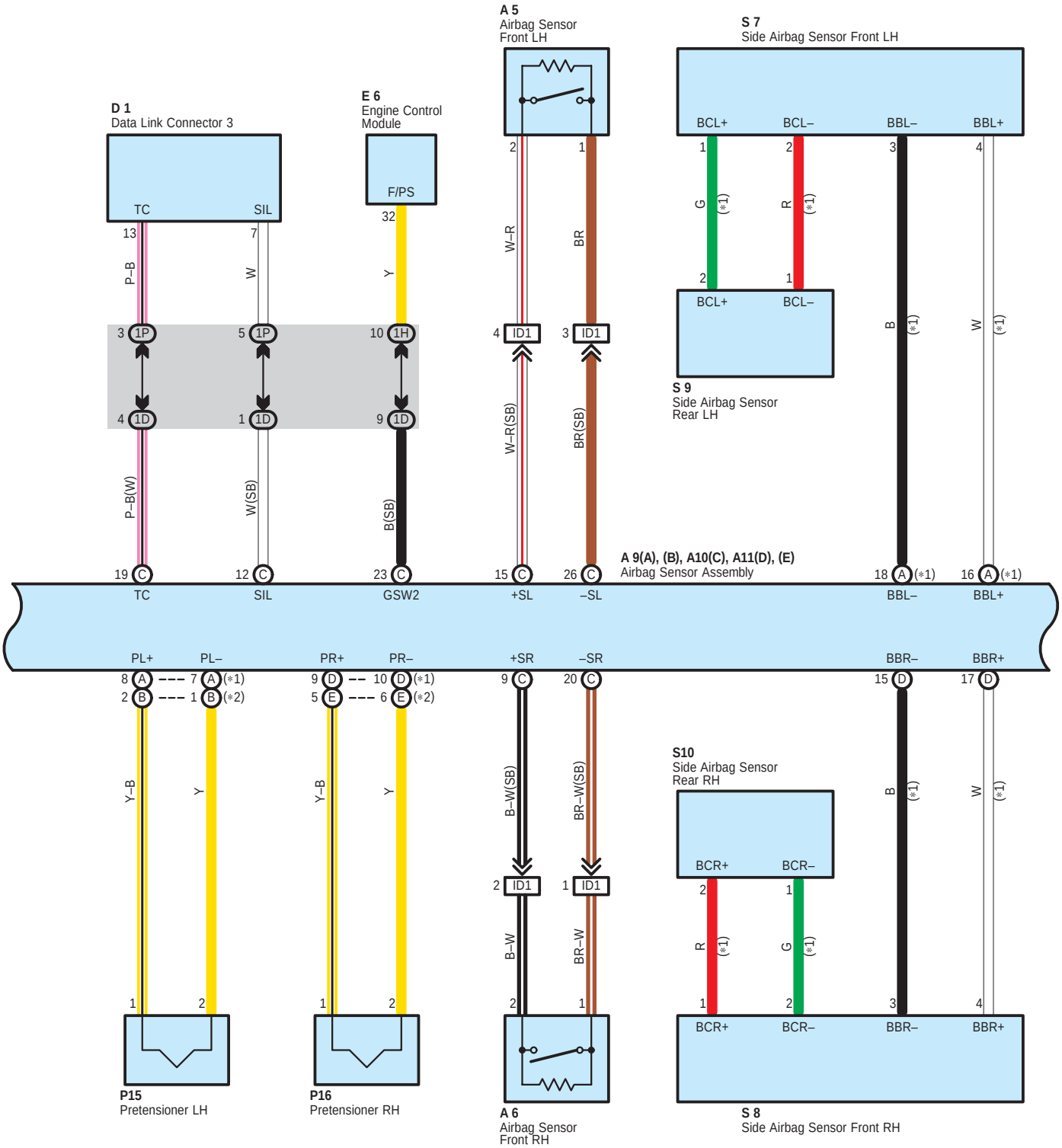
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is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

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

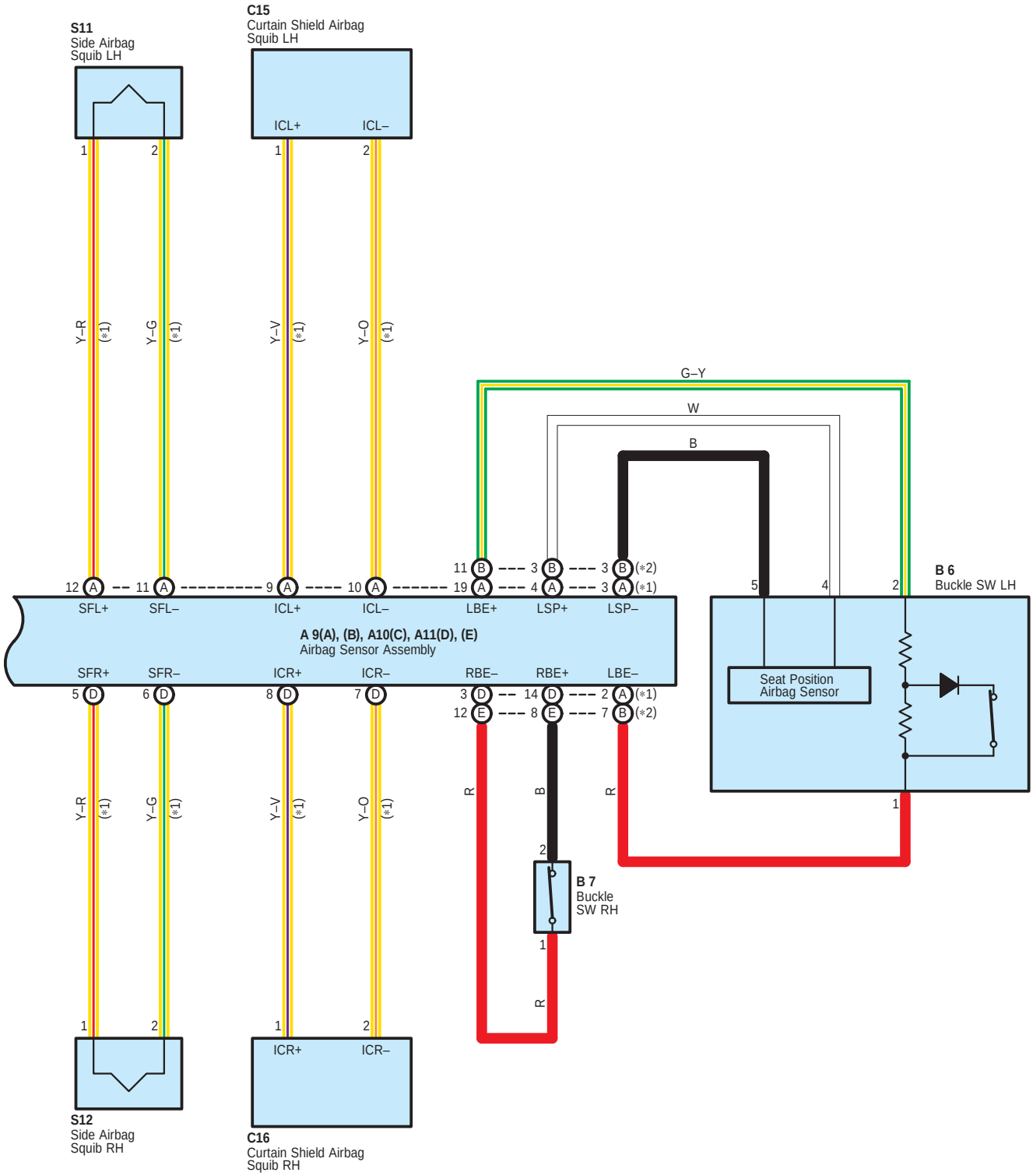

I10
Ignition SW
5 AM2
IG2 6
ST2
W–R
B–R
C10(A), C11(B)
Combination Meter
SRS
(IG)
10A GAUGE
13 1G
R–B
1 1O
6 1O
7 1A
5 1D
3 A
20 B
1 A
W–B
B–Y
B–O(SB)
7 1G
8 1D
B–Y(W)
2
2
15A
AM2
1
2
B
3 A (w/ VSC)
2 B (w/o VSC)
60A MAIN
F10(A), (B)
Fusible Link
Block
Battery
A 9(A), (B), A10(C), A11(D), (E)
Airbag Sensor Assembly
5 C
IG2
3 C
LA
E2
E1
D+
D–
D2+
D2–
P+
P–
P2+
P2–
28 C
27 C
14 C
13 C
16 C
17 C
10 C
11 C
8 C
7 C
W–B(SB)
W–B(SB)
Y–B(SB)
Y(SB)
Y–V(SB)
Y–O(SB)
Y–R(SB)
Y–G(SB)
Y–GR(SB)
Y–P(SB)
2 1D
3 1D
2 1O
W–B
IF
IE
1 D+
2 D–
4 D2+
3 D2–
A13
Airbag Squib
(Steering Wheel Pad)
1 P+
2 P–
3 P2+
4 P2–
A12
Airbag Squib
(Front Passenger
Airbag Assembly)

Note :
Since there is a case where the different wire color is used depending on the vehicle, a wire color code like " G(SB)" is used in this manual.
Please refer to page 40 for details.

∗ 1 : w/ Side Airbag
∗ 2 : w/o Side Airbag



∗ 1 : w/ Side Airbag
∗ 2 : w/o Side Airbag



System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON, the current from the ignition SW flows to TERMINAL (C) 5 of the airbag sensor assembly.
If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the ignition SW flows to TERMINALS (C) 14, (C) 16, (C) 10, (C) 8, (A) 8 (w/ side airbag) or (B) 2 (w/o side airbag) and (D) 9 (w/ side airbag) or (E) 5 (w/o side airbag) of the airbag sensor assembly to the airbag squibs and the pretensioners to TERMINALS (C) 13, (C) 17, (C) 11, (C) 7, (A) 7 (w/ side airbag) or (B) 1 (w/o side airbag) and (D) 10 (w/ side airbag) or (E) 6 (w/o side airbag) of the airbag sensor assembly to TERMINAL (C) 27, (C) 28 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.
When the side impact also exceeds a set level, the current from the ignition SW flows to TERMINALS (A) 12, (D) 5, (A) 9 and (D) 8 of the airbag sensor assembly to the side airbag squibs and the curtain shield airbag squibs TERMINALS (A) 11, (D) 6, (A) 10 and (D) 7 of the airbag sensor assembly to TERMINAL (C) 27, (C) 28 or BODY GROUND to GROUND, causing side airbag squibs and curtain shield airbag squibs to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.
The curtain shield airbag can ease an impact on the head of the front and rear passengers and reduce risks of injury.
The pretensioners make sure of the seat belt restrainability.

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A5		28	B7		32	P15	33
A6		28	C10	A	30	P16	33
A9	A	30	C11	B	30	S7	33
	B	30	C15		32	S8	33
A10	C	30	C16		32	S9	33
A11	D	30	D1		30	S10	33
	E	30	E6		30	S11	33
A12		30	F10	A	28	S12	33
A13		30		B	28		
B6		32	I10		31		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

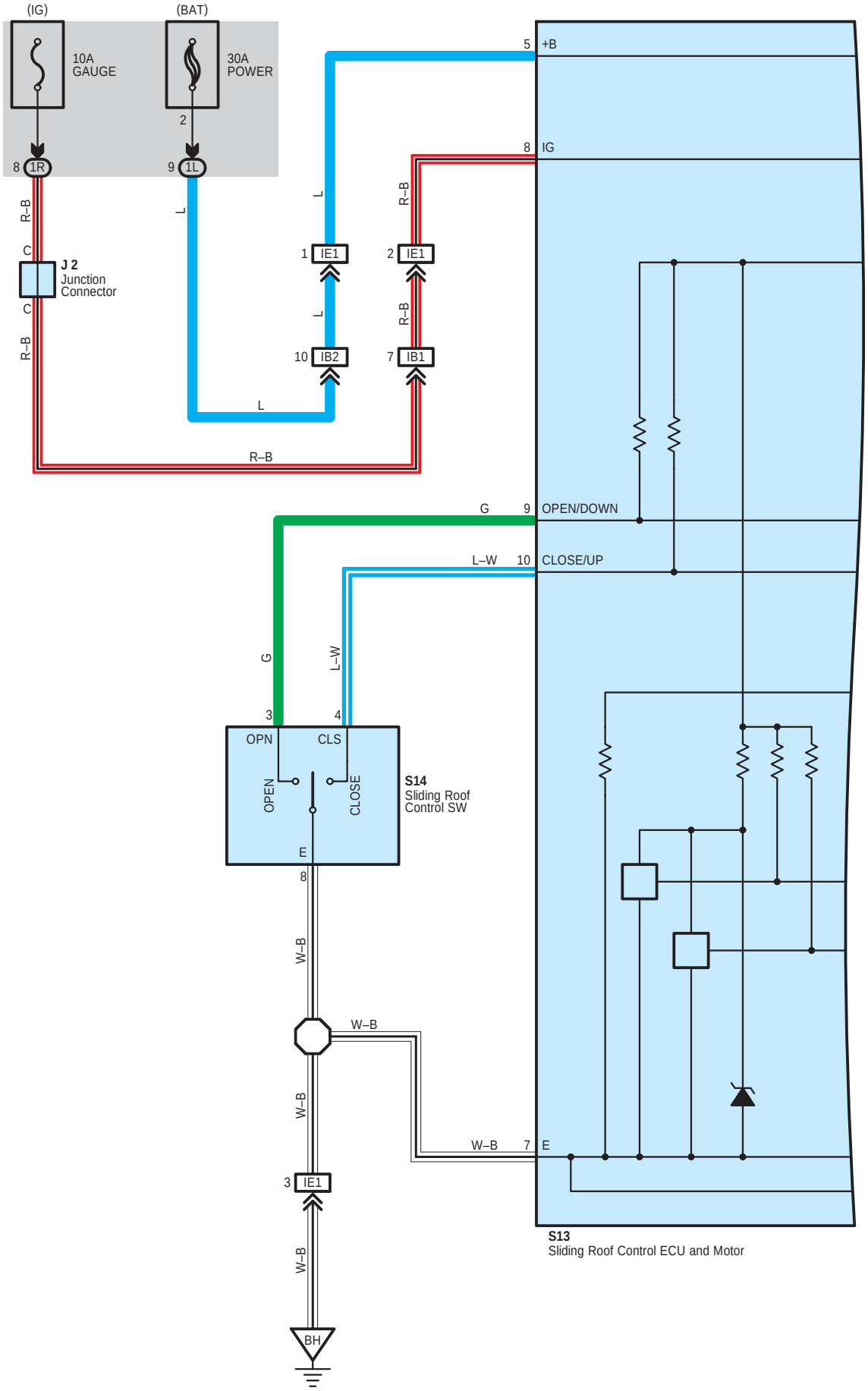
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1O		
1P		

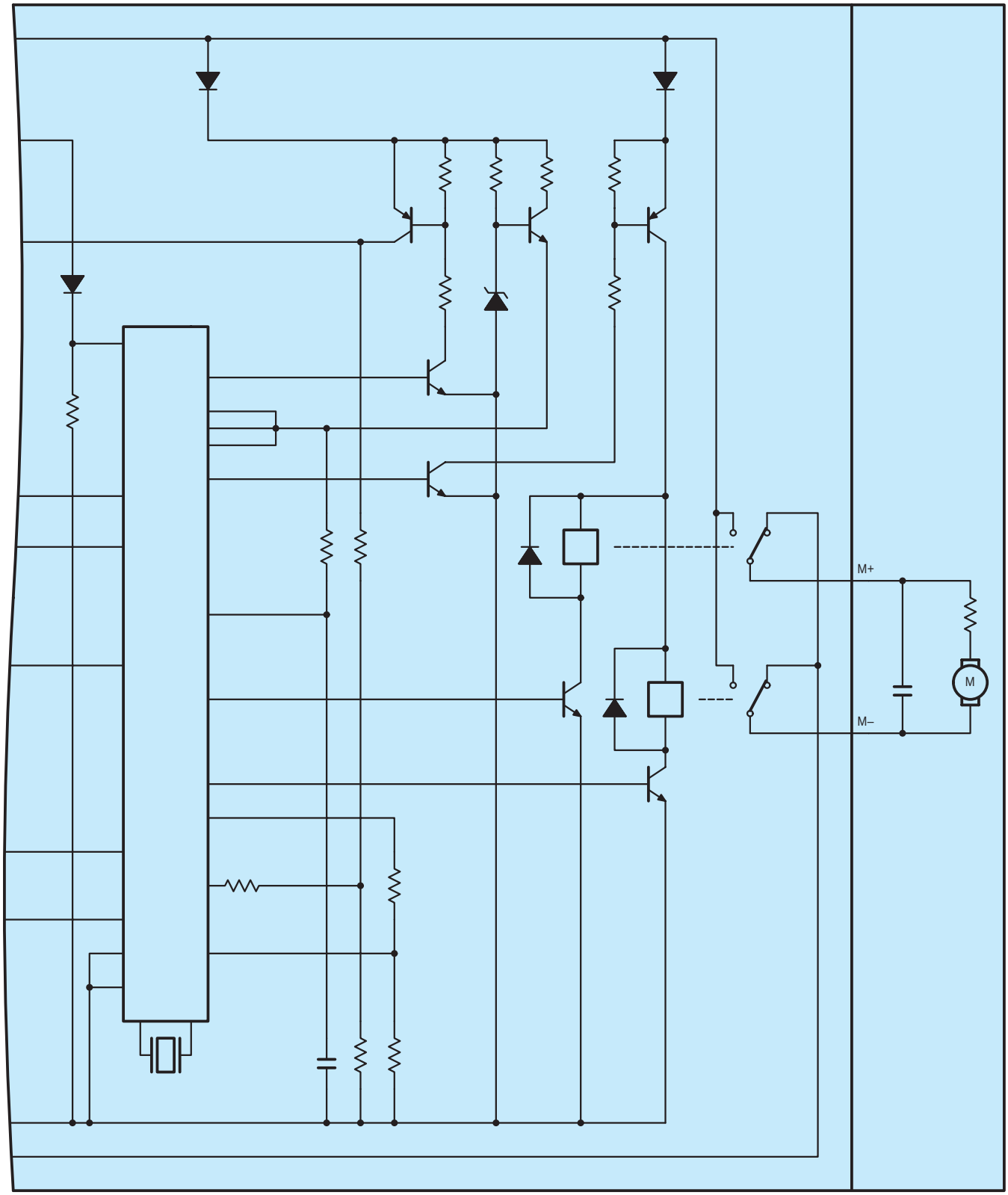
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH


(IG)
(BAT)
10A
GAUGE
30A
POWER
2
8 1R
9 1L
R–B
L
C
J 2
Junction
Connector
C
R–B
L
L
R–B
1 IE1
2 IE1
L
R–B
10 IB2
7 IB1
L
R–B
5 +B
8 IG
G 9 OPEN/DOWN
L–W 10 CLOSE/UP
G
L–W
3
4
OPN
CLS
OPEN
CLOSE
E
S14
Sliding Roof
Control SW
8
W–B
W–B
W–B
W–B 7 E
3 IE1
W–B
BH
S13
Sliding Roof Control ECU and Motor



S13
Sliding Roof Control ECU and Motor

Sliding Roof

System Outline

The sliding roof can be operated when the ignition SW is turned to ON position.

1. Slide Open Operation

The sliding roof fully opens automatically by pressing the OPEN button of the sliding roof control SW once. The sliding roof opens half and stops the operation once. If the sliding roof control switch is pressed again when the sliding roof is operating, the movement of the sliding roof stops.

2. Slide Close Operation

If you keep pressing the CLOSE button of the sliding roof control SW when the sliding roof is closes.

3. Tilt Up Operation

If you press the CLOSE button of the sliding roof control SW, the sliding roof is tilted up. However, the sliding roof is not tilted up when it is open

4. Tilt Down Operation

If you press the OPEN button when the TILT UP of the sliding roof control SW is pressed, the sliding roof is tilted down.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
J2	31	S13	33	S14	33

: Junction Block and Wire Harness Connector

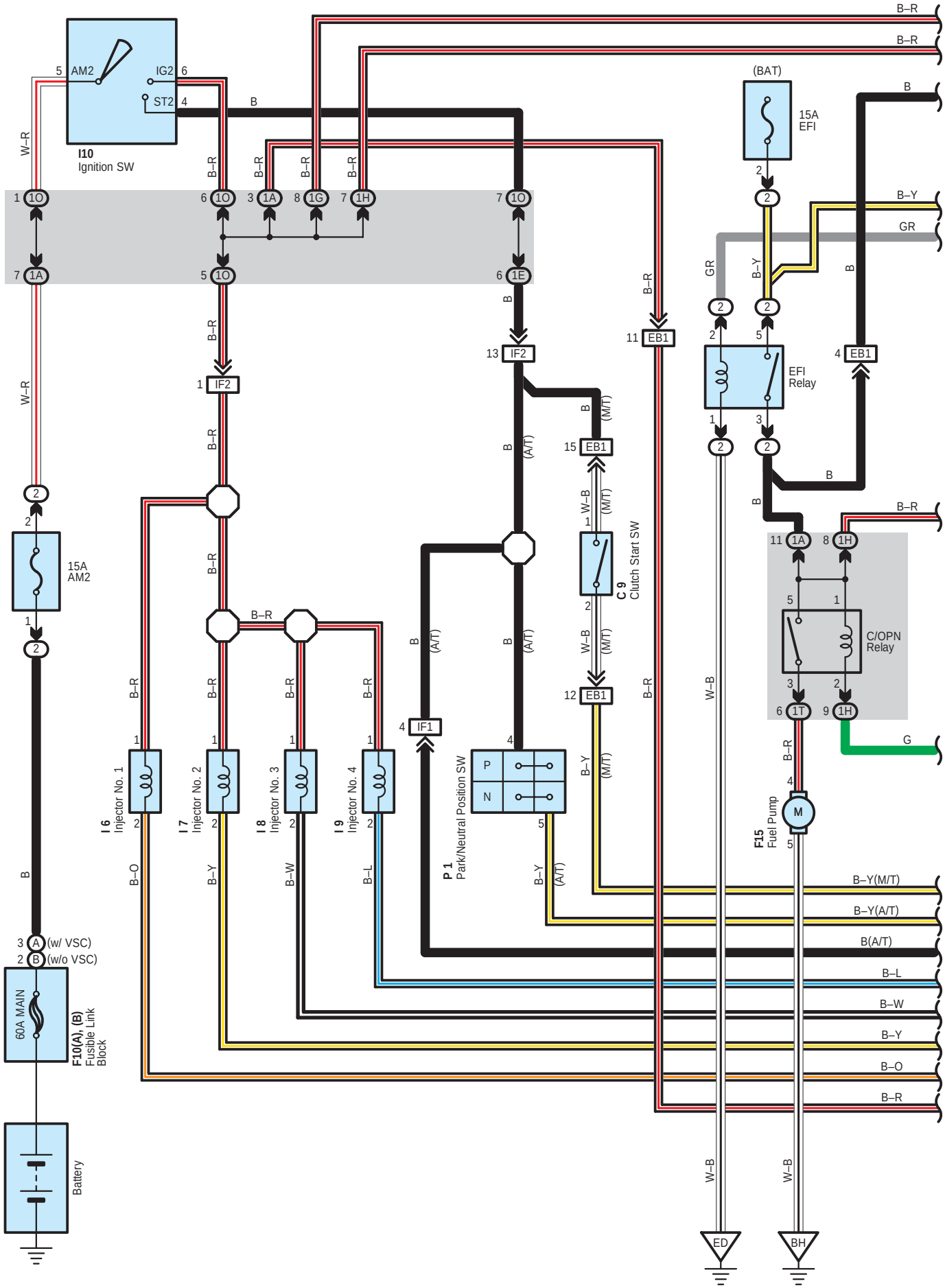
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1R		

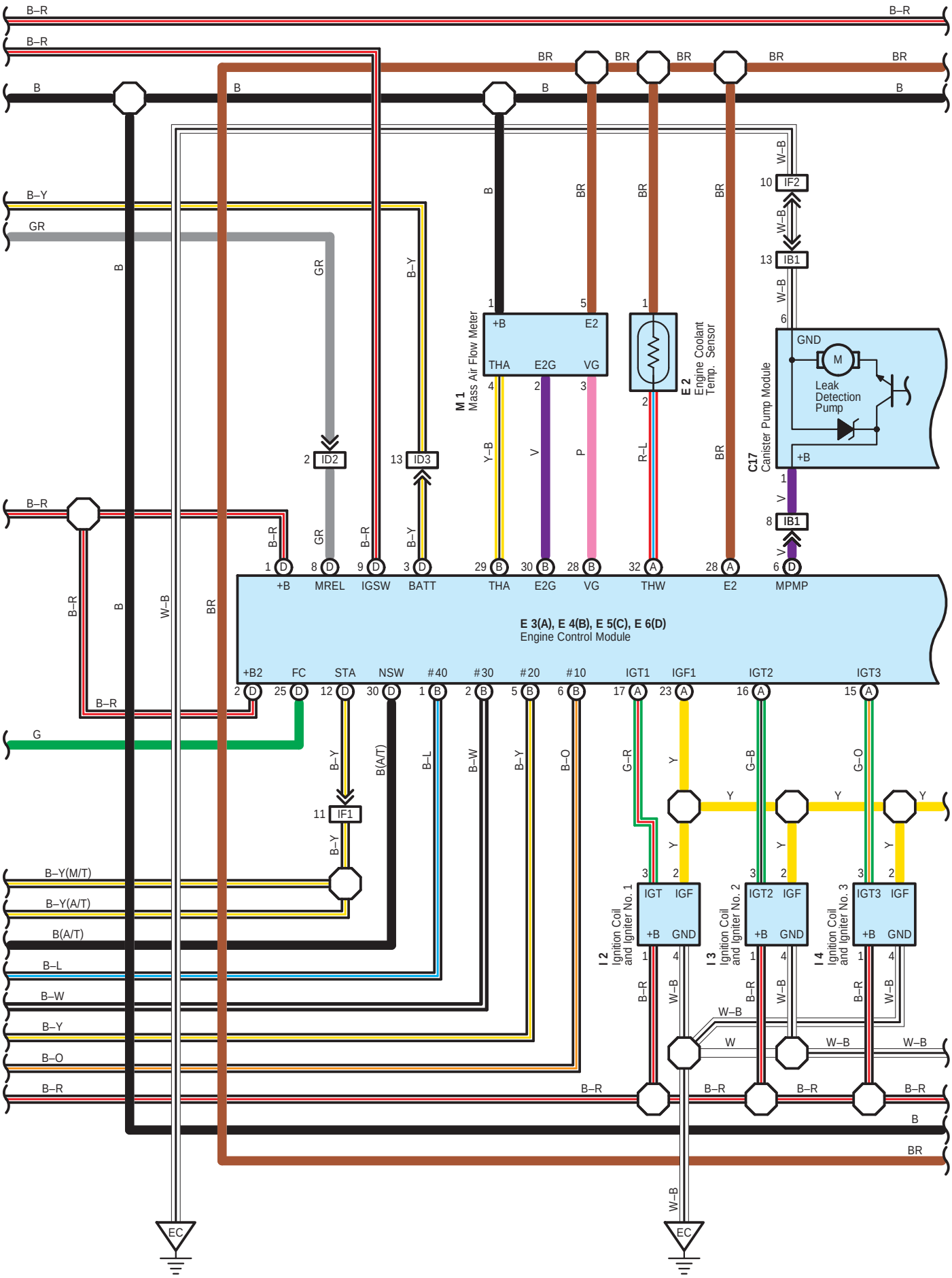
: Connector Joining Wire Harness and Wire Harness

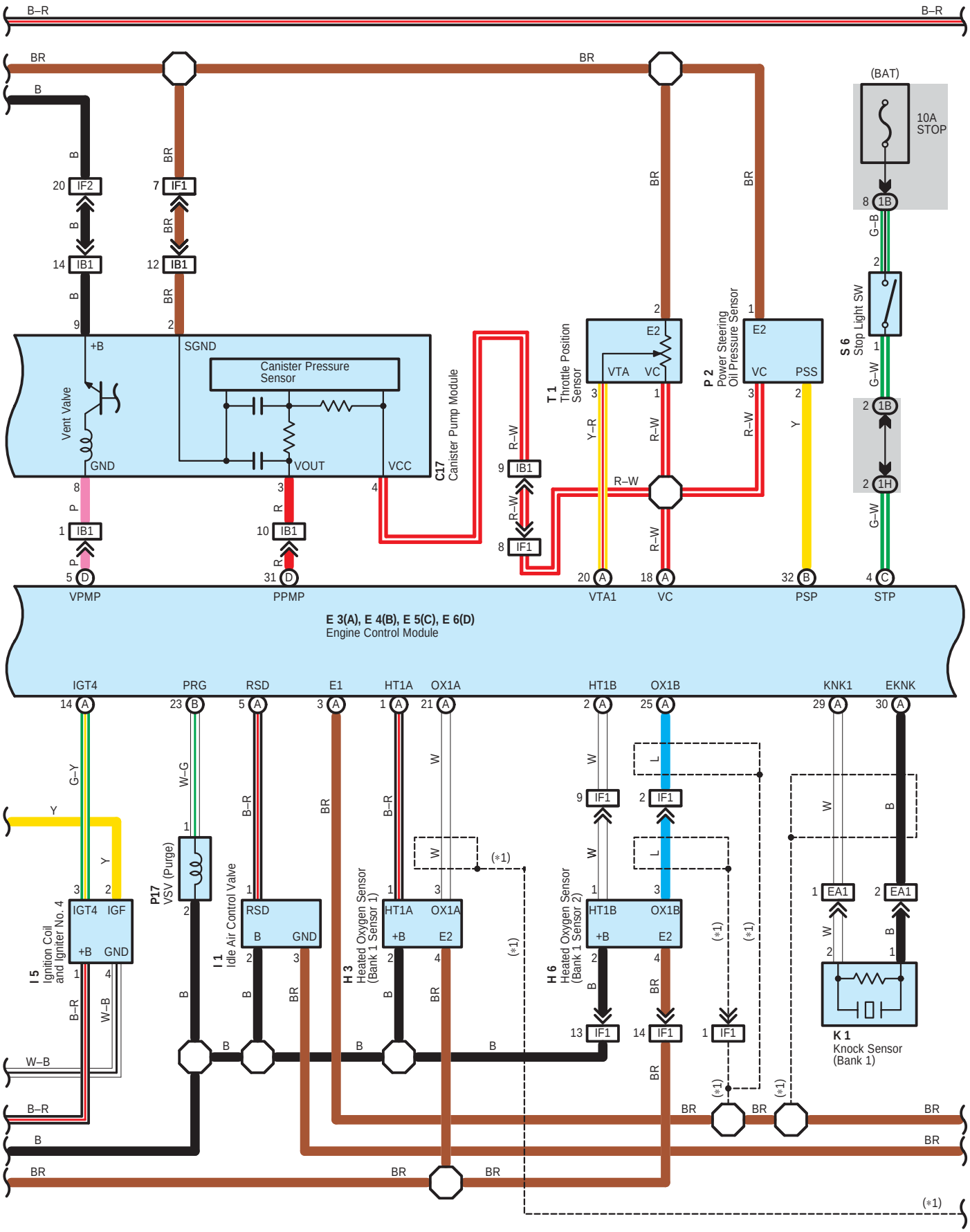
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IB2		
IE1	37	Roof Wire and Floor Wire (Upper Side of the Cowl Side Panel LH)

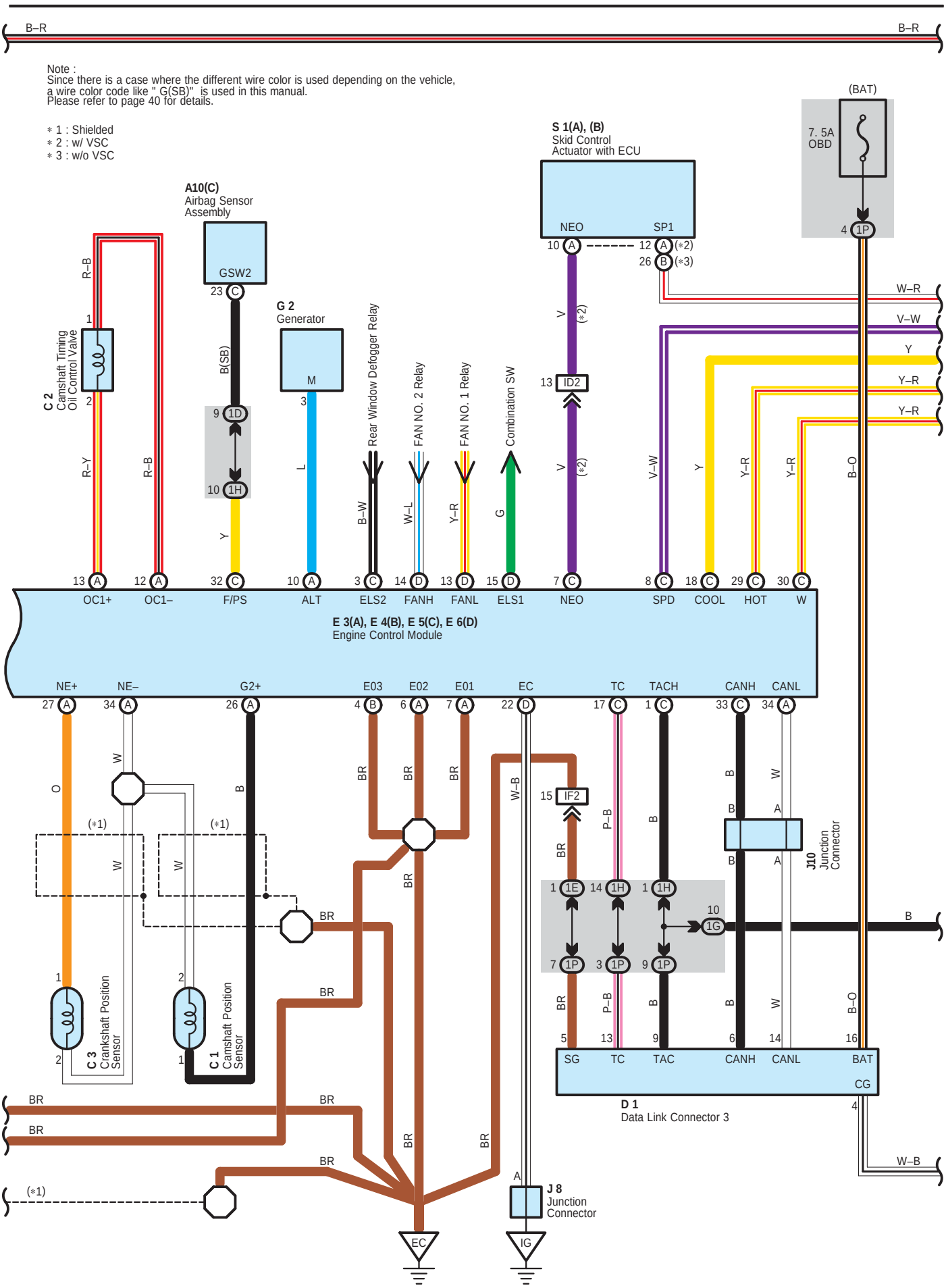
▽ : Ground Points

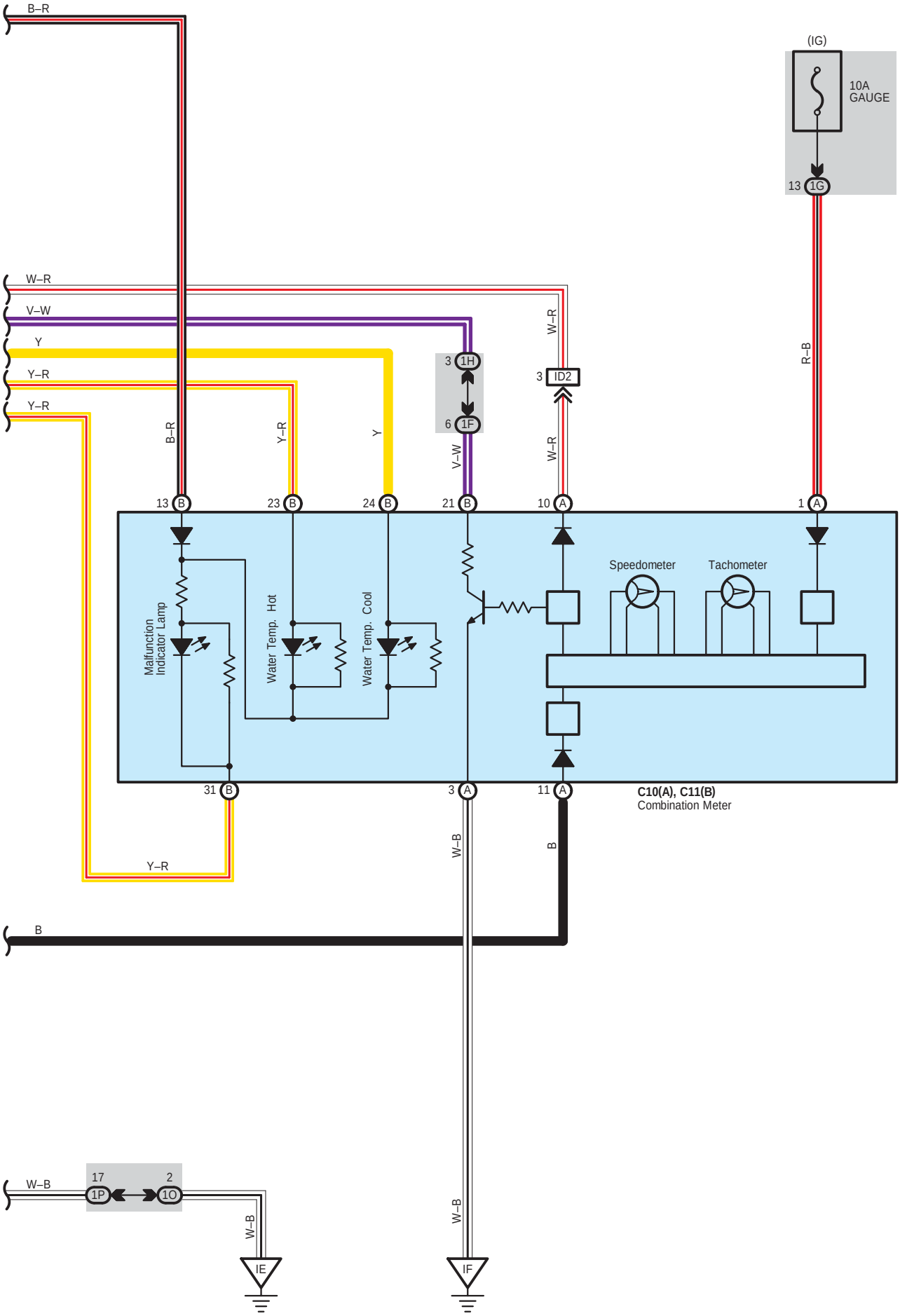
Code	See Page	Ground Points Location
BH	38	Left Quarter Pillar


I10
Ignition SW
AM2
IG2
ST2
(BAT)
15A
EFI
15A
AM2
EFI
Relay
C/OPN
Relay
C 9
Clutch Start SW
P 1
Park/Neutral Position SW
I 6
Injector No. 1
I 7
Injector No. 2
I 8
Injector No. 3
I 9
Injector No. 4
F15
Fuel Pump
F10(A), (B)
Fusible Link
Block
60A MAIN
Battery
(w/ VSC)
(w/o VSC)
ED
BH
B–R
B–Y
B
W–R
W–B
GR
B–O
B–W
B–L
B–Y(M/T)
B–Y(A/T)
B(A/T)
G


B–R
B
BR
B–Y
GR
W–B
M 1
Mass Air Flow Meter
+B
E2
THA
E2G
VG
E 2
Engine Coolant Temp. Sensor
THW
C17
Canister Pump Module
GND
M
Leak Detection Pump
IF2
IB1
ID2
ID3
IF1
+B
MREL
IGSW
BATT
THA
E2G
VG
THW
E2
MPMP
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
+B2
FC
STA
NSW
#40
#30
#20
#10
IGT1
IGF1
IGT2
IGT3
B(A/T)
B–L
B–W
B–O
G–R
G–B
G–O
Y
G
B–Y(M/T)
B–Y(A/T)
I 2
I 3
I 4
Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
IGT
IGF
IGT2
IGT3
GND
W
EC


B–R
B–R
BR
B
20 IF2
7 IF1
14 IB1
12 IB1
9
2
+B
SGND
Canister Pressure Sensor
Vent Valve
GND
VOUT
VCC
C17 Canister Pump Module
8
3
4
1 IB1
10 IB1
5 D
31 D
VPMP
PPMP
R–W
9 IB1
8 IF1
T1 Throttle Position Sensor
E2
VTA
VC
Y–R
R–W
20 A
18 A
VTA1
VC
P 2 Power Steering Oil Pressure Sensor
PSS
32 B
PSP
(BAT)
10A STOP
8 1B
G–B
S 6 Stop Light SW
G–W
2 1B
2 1H
4 C
STP
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
IGT4
PRG
RSD
E1
HT1A
OX1A
HT1B
OX1B
KNK1
EKNK
14 A
23 B
5 A
3 A
1 A
21 A
2 A
25 A
29 A
30 A
G–Y
Y
W–G
B–R
BR
W
L
B
I 5 Ignition Coil and Igniter No. 4
IGT4 IGF
+B GND
W–B
P17 VSV (Purge)
I 1 Idle Air Control Valve
RSD
B GND
H 3 Heated Oxygen Sensor (Bank 1 Sensor 1)
HT1A OX1A
+B E2
H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
HT1B OX1B
9 IF1
2 IF1
13 IF1
14 IF1
1 IF1
(*1)
1 EA1
2 EA1
K 1 Knock Sensor (Bank 1)


B–R
B–R
Note :
Since there is a case where the different wire color is used depending on the vehicle, a wire color code like "G(SB)" is used in this manual.
Please refer to page 40 for details.
∗ 1 : Shielded
∗ 2 : w/ VSC
∗ 3 : w/o VSC
A10(C)
Airbag Sensor Assembly
GSW2
S 1(A), (B)
Skid Control Actuator with ECU
NEO
SP1
(BAT)
7. 5A
OBD
G 2
Generator
C 2
Camshaft Timing Oil Control Valve
Rear Window Defogger Relay
FAN NO. 2 Relay
FAN NO. 1 Relay
Combination SW
ID2
OC1+
OC1–
F/PS
ALT
ELS2
FANH
FANL
ELS1
NEO
SPD
COOL
HOT
W
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
NE+
NE–
G2+
E03
E02
E01
EC
TC
TACH
CANH
CANL
J10
Junction Connector
C 3
Crankshaft Position Sensor
C 1
Camshaft Position Sensor
D 1
Data Link Connector 3
SG
TC
TAC
CANH
CANL
BAT
CG
J 8
Junction Connector
EC
IG


B–R
(IG)
10A
GAUGE
13 1G
W–R
V–W
Y
Y–R
Y–R
B–R
Y–R
Y
3 1H
6 1F
V–W
W–R
3 ID2
W–R
R–B
13 B
23 B
24 B
21 B
10 A
1 A
Malfunction
Indicator Lamp
Water Temp. Hot
Water Temp. Cool
Speedometer
Tachometer
31 B
3 A
11 A
C10(A), C11(B)
Combination Meter
W–B
B
Y–R
B
W–B
17
1P
2
1O
W–B
IE
W–B
IF

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. thus the engine coolant temp. is input in the form of a control signal into TERMINAL THW of the engine control module.

(2) Intake air temp. signal circuit

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

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust gases is detected and input as a control signal into TERMINALS OX1A and OX1B of the engine control module.

(4) RPM signal circuit

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

(5) Throttle signal circuit

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

(6) Vehicle speed signal circuit

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

(7) NSW signal circuit (A/T)

The Park/Neutral position SW detects whether the shift position are in neutral, parking or not, and inputs a control signal into TERMINAL NSW of the engine control module.

(8) Battery signal circuit

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

(9) 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.

2. Control System

* SFI system
  The SFI system monitors the engine condition through the signals, which are input from each sensor to the engine control module. The best fuel injection volume is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector. (Inject the fuel). The SFI system produces control of fuel injection operation by the engine control module in response to the driving conditions.
* ESA system
  The ESA system monitors the engine condition through the signals, which are input to the engine control module from each sensor. The best ignition timing is detected 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 ignition coil and igniter to provide the best ignition timing for the driving conditions.
* IAC system
  The IAC system increases the RPM and provides idling stability for fast idle–up when the engine is cold and when the idle speed has dropped due to electrical load, etc. The engine control module evaluates the signals from each sensor, outputs current to TERMINAL RSD, and controls the idle air control valve.
* Fuel pump control system
  The engine control module operation outputs to TERMINAL FC and controls the C/OPN relay. Thus controls the fuel pump drive speed in response to conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunctioning in the engine control module signal system, the malfunction system is recorded in the memory. The malfunctioning system can then be found by reading the display (Code) of the malfunction indicator lamp.

4. Fail–Safe System

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10 C	30	F10 A	28	I9	29
C1	28	F10 B	28	I10	31
C2	28	F15	32	J8	31
C3	28	G2	28	J10	31
C9	30	H3	28	K1	29
C10 A	30	H6	30	M1	29
C11 B	30	I1	29	P1	29
C17	32	I2	29	P2	29
D1	30	I3	29	P17	29
E2	28	I4	29	S1 A	29
E3 A	30	I5	29	S1 B	29
E4 B	30	I6	29	S6	31
E5 C	30	I7	29	T1	29
E6 D	30	I8	29		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

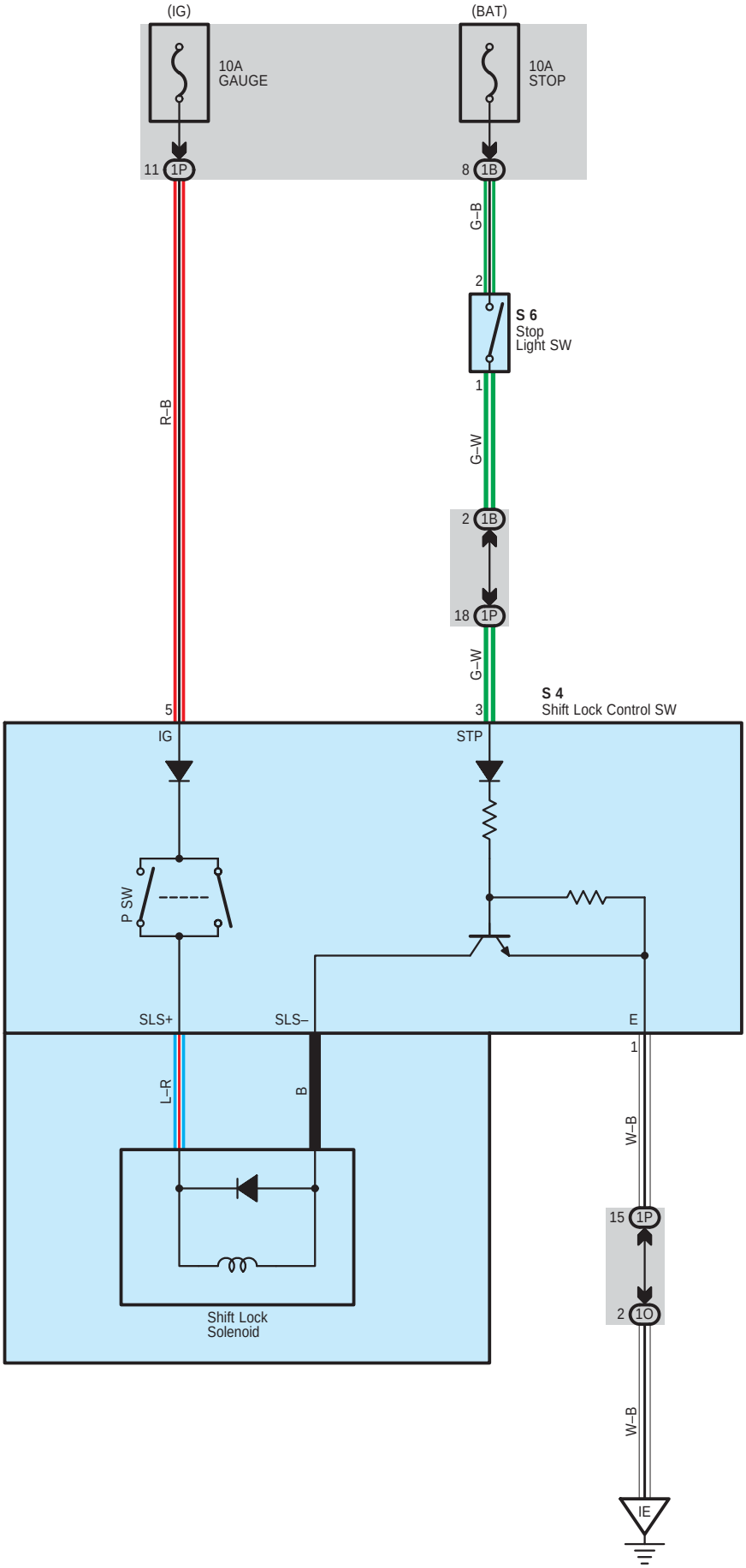
Code	See Page	Junction Block and Wire Harness (Connector Location)
10		
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1H		
1O		
1P		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	34	Engine Wire and Sensor Wire (Near the Starter)
EB1	34	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID3		
IF1	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
IF2		

: Ground Points

Code	See Page	Ground Points Location
EC	34	Cylinder Head
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
IG	36	Right Kick Panel
BH	38	Left Quarter Pillar


(IG)
(BAT)
10A
GAUGE
10A
STOP
11
1P
8
1B
G–B
2
S 6
Stop
Light SW
1
R–B
G–W
2
1B
18
1P
G–W
S 4
Shift Lock Control SW
5
3
IG
STP
P SW
SLS+
SLS–
E
1
L–R
B
W–B
15
1P
2
1O
Shift Lock
Solenoid
W–B
IE

System Outline

The current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.
When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL 5 of the shift lock control SW.

Shift Lock Mechanism

With the ignition SW at ON position, when a signal that the brake pedal is depressed (Stop light SW on) and a signal that the shift lever is put in P position (Continuity P SW) is input to the shift lock control SW, the shift lock control SW operates and the current flows from TERMINAL 5 of the shift lock control SW to TERMINAL SLS+ to the shift lock solenoid to TERMINAL SLS– of the shift lock control SW to TERMINAL 1 to GROUND. This causes the shift lock solenoid to turn on (Plate stopper disengages) and the shift lever can shift into position other than P position.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
S4	31	S6	31		

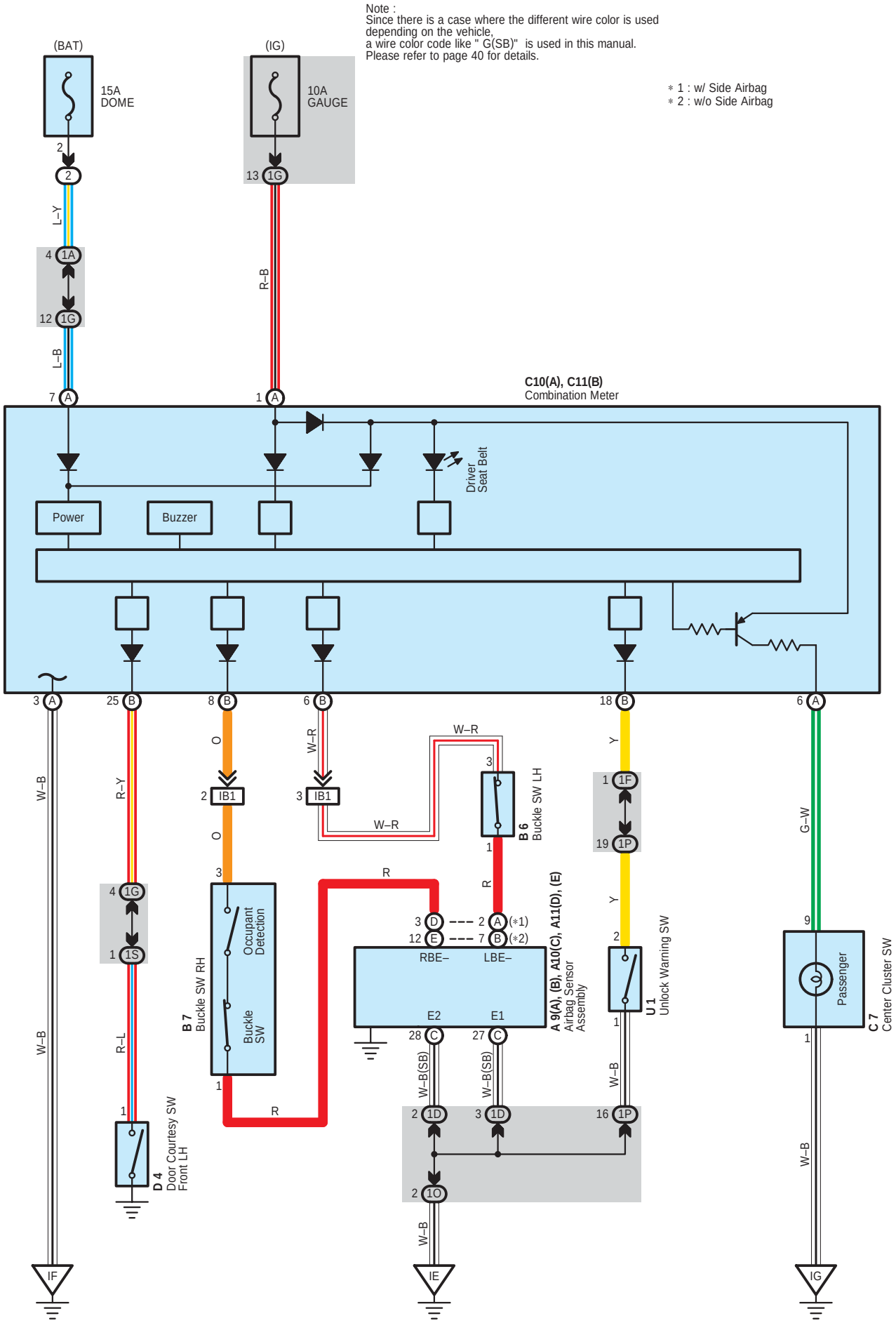
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1O	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1P		

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel

Key Reminder and Seat Belt Warning



System Outline

Current is always applied from the DOME fuse to TERMINAL (A) 7 of the combination meter. When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL (A) 1 of the combination meter.

1. Seat Belt Warning System

When the ignition SW turned on, a signal is input to the combination meter. To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to TERMINAL (B) 6 of the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.
In addition, the front passenger is recognized by a sensor (Occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the buckle SW RH is input to TERMINAL (B) 8 of the combination meter, and the front passenger seat belt warning light blinks.

2. Key Reminder System

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to TERMINAL (B) 18 of the combination meter, and from the door courtesy SW front LH to TERMINAL (B) 25 of the combination meter. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	30	A11	E	30	C10	A	30
	B	30	B6		32	C11	B	30
A10	C	30	B7		32	D4		32
A11	D	30	C7		30	U1		31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

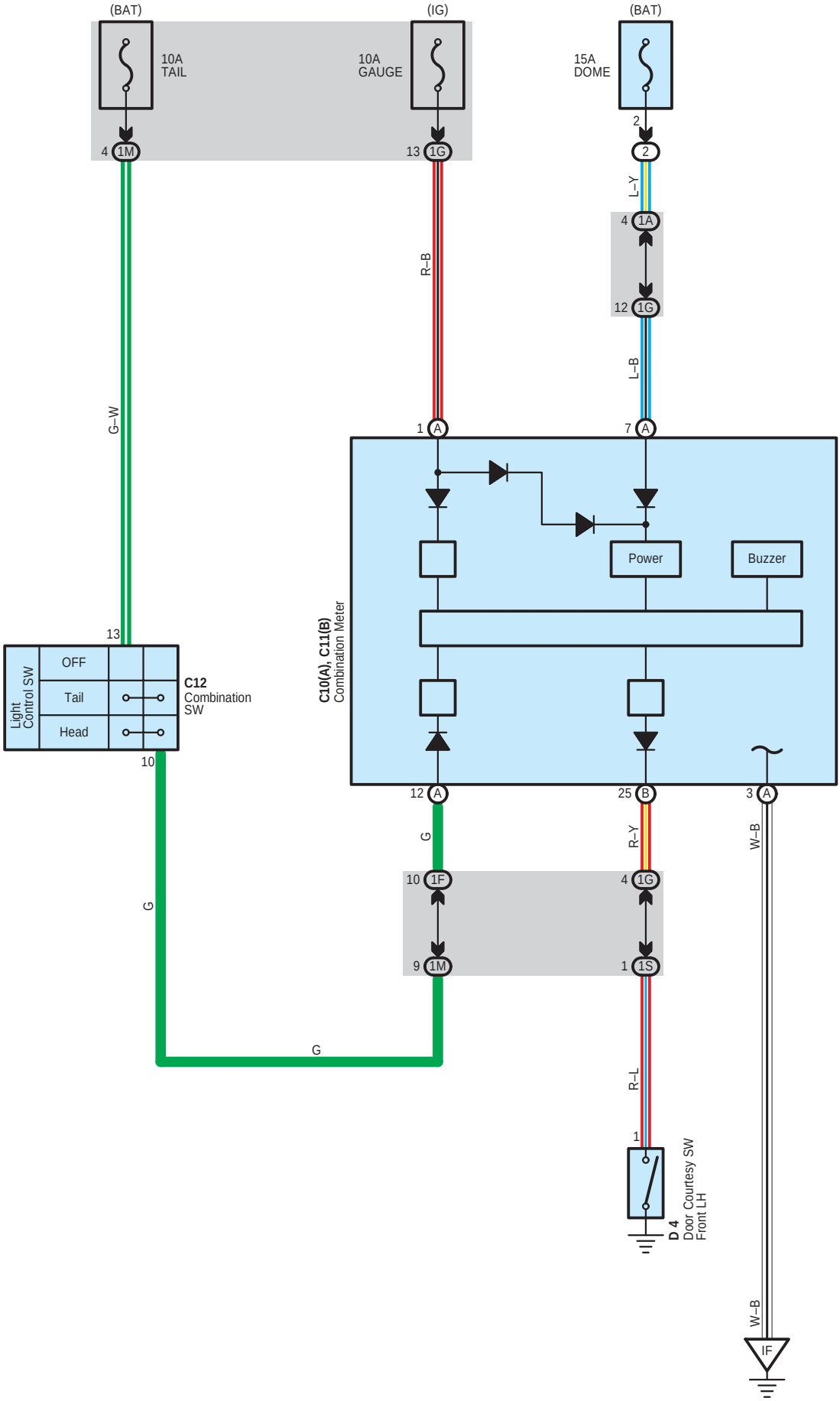
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1O		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
IG	36	Right Kick Panel


(BAT)
10A
TAIL
(IG)
10A
GAUGE
(BAT)
15A
DOME
4 1M
13 1G
2
2
L–Y
4 1A
12 1G
L–B
R–B
G–W
1 A
7 A
Power
Buzzer
C10(A), C11(B)
Combination Meter
13
Light
Control SW
OFF
Tail
Head
C12
Combination
SW
10
12 A
25 B
3 A
G
R–Y
W–B
10 1F
9 1M
4 1G
1 1S
G
G
R–L
1
D 4
Door Courtesy SW
Front LH
W–B
IF

System Outline

The current is applied at all times to TERMINAL (A) 7 of the combination meter through the DOME fuse.
When the ignition SW is turned to ON position, the current flows to TERMINAL (A) 1 of the combination meter through the GAUGE fuse. When the light control SW is turned to TAIL or HEAD position, current is applied to TERMINAL (A) 12 of the combination meter through the TAIL fuse.

Light Reminder System

When the light control SW is in TAIL or HEAD position, the ignition SW turned to OFF from ON position, the driver's door opened (Door courtesy SW on), the current flows to TERMINAL (A) 1 of the combination meter stops. As a result, the combination meter is activated and current flows from TERMINAL (A) 7 of the combination meter, the buzzer in the combination meter goes on to remind the light is lighting up.

: Parts Location

Code		See Page	Code	See Page	Code	See Page
C10	A	30	C12	30		
C11	B	30	D4	32		

: Relay Blocks

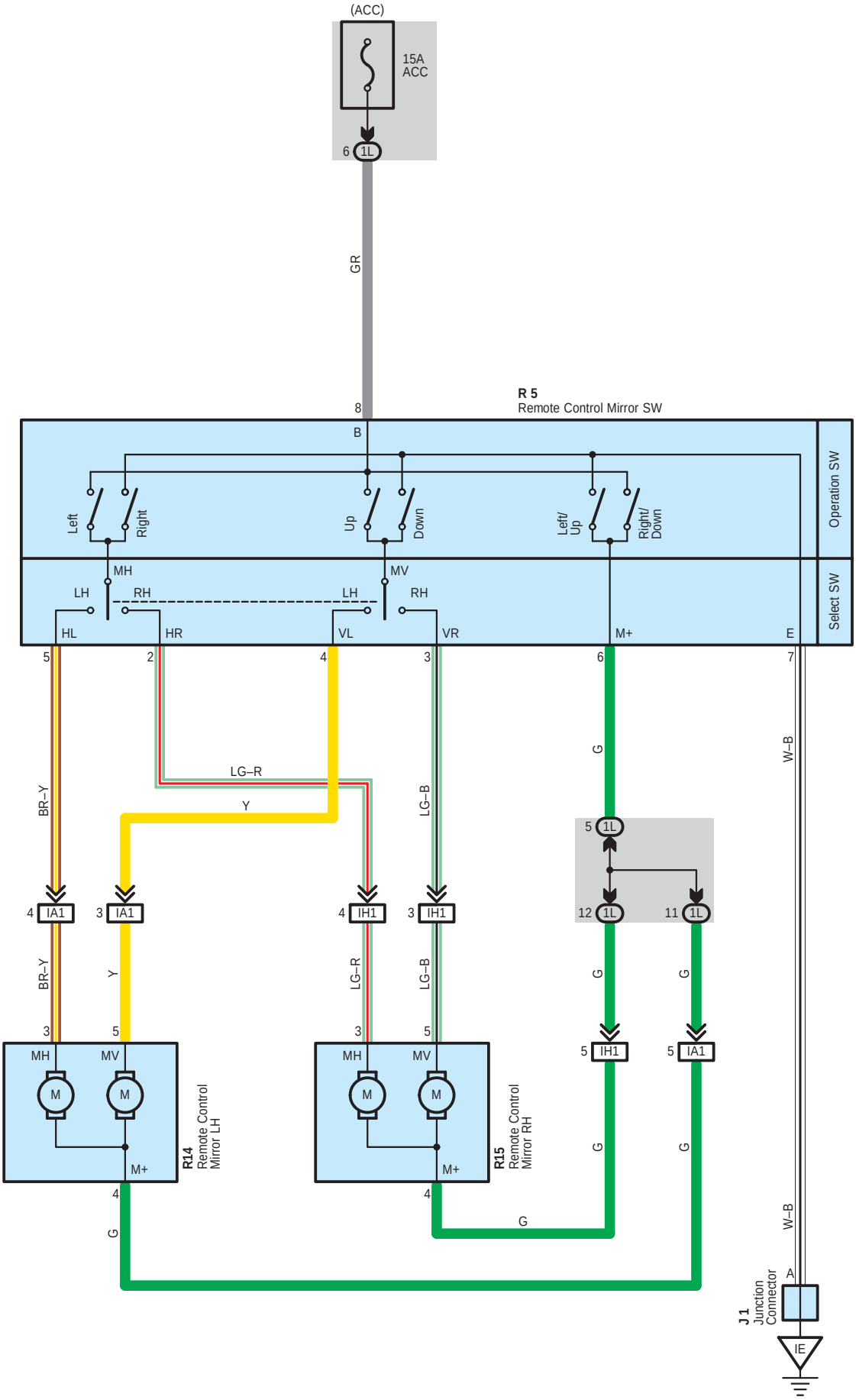
Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1M		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	36	Instrument Panel Brace LH


(ACC)
15A
ACC
6 1L
GR
8
R 5
Remote Control Mirror SW
B
Left
Right
Up
Down
Left/
Up
Right/
Down
Operation SW
MH
MV
LH
RH
LH
RH
Select SW
HL
HR
VL
VR
M+
E
5
2
4
3
6
7
G
W–B
LG–R
Y
BR–Y
LG–B
5 1L
4 IA1
3 IA1
4 IH1
3 IH1
12 1L
11 1L
BR–Y
Y
LG–R
LG–B
G
G
3
5
3
5
5 IH1
5 IA1
MH
MV
MH
MV
M
M
M
M
M+
M+
R14
Remote Control
Mirror LH
R15
Remote Control
Mirror RH
4
4
G
G
G
G
W–B
A
J1
Junction
Connector
IE

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J1	31	R14	33		
R5	31	R15	33		

: Junction Block and Wire Harness Connector

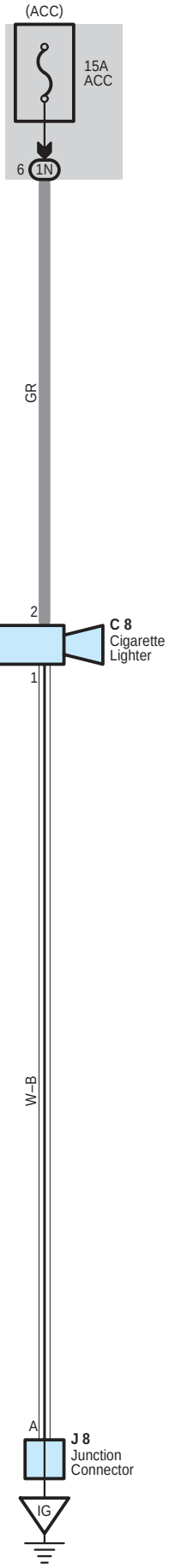
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IH1	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel


(ACC)
15A
ACC
6
1N
GR
2
C 8
Cigarette
Lighter
1
W–B
A
J 8
Junction
Connector
IG

○ : **Parts Location**

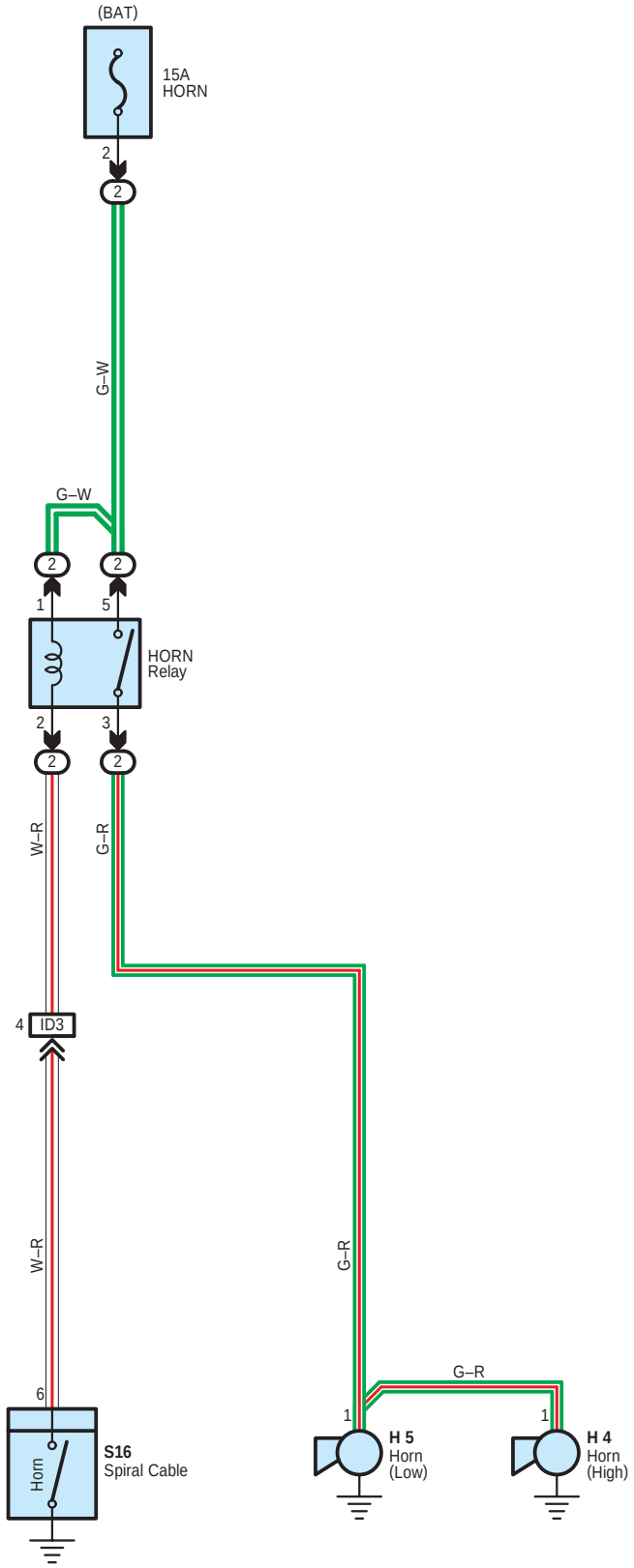
Code	See Page	Code	See Page	Code	See Page
C8	30	J8	31		

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IG	36	Right Kick Panel


(BAT)
15A
HORN
2
2
G–W
G–W
2
2
1
5
HORN
Relay
2
3
2
2
W–R
G–R
4
ID3
W–R
G–R
G–R
6
1
1
Horn
S16
Spiral Cable
H 5
Horn
(Low)
H 4
Horn
(High)

: Parts Location

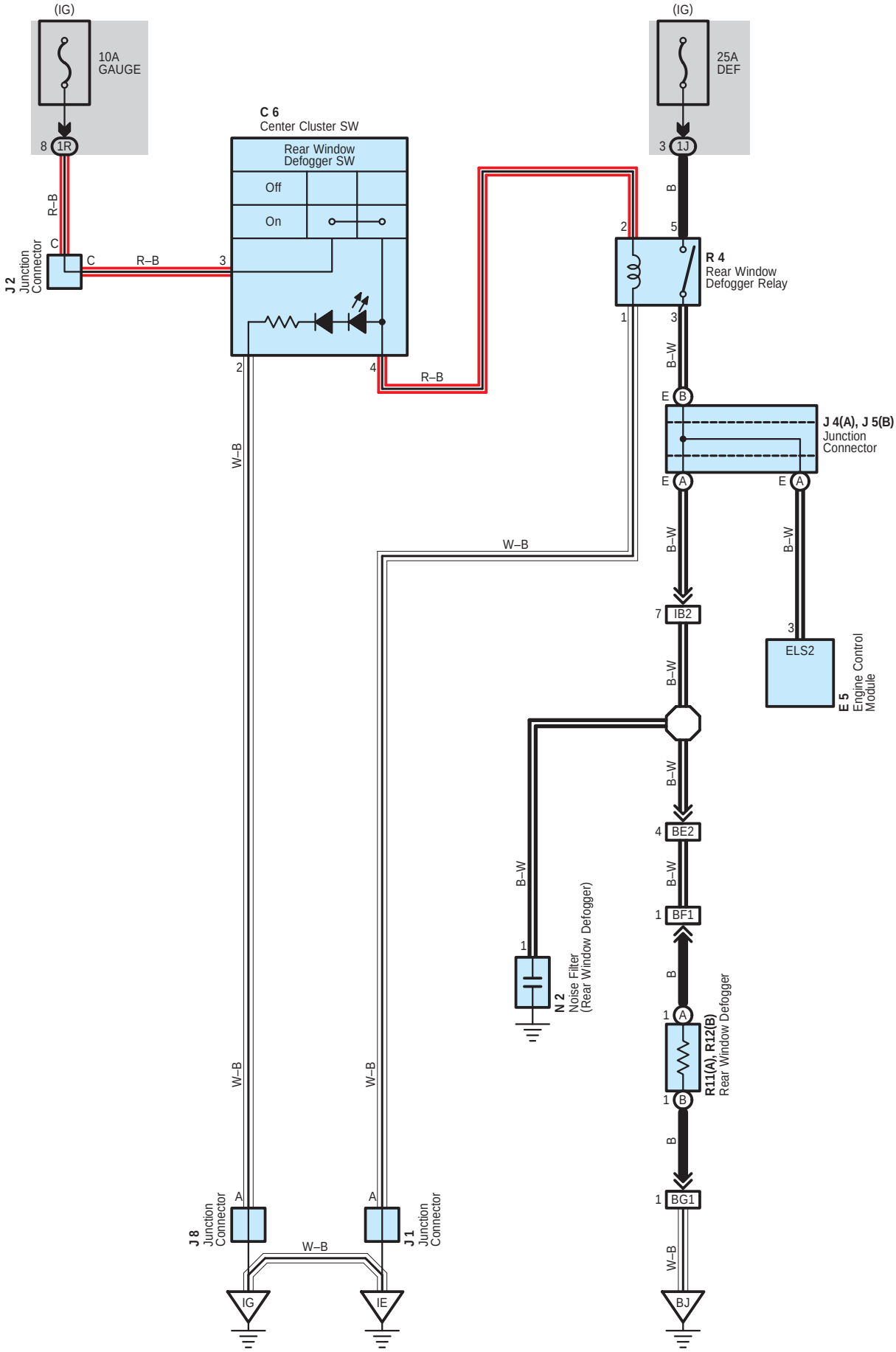
Code	See Page	Code	See Page	Code	See Page
H4	28	H5	28	S16	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)


(IG)
10A
GAUGE
8
1R
R–B
C
J 2
Junction
Connector
C
R–B
3
C 6
Center Cluster SW
Rear Window
Defogger SW
Off
On
2
4
R–B
W–B
(IG)
25A
DEF
3
1J
B
2
5
R 4
Rear Window
Defogger Relay
1
3
B–W
E
B
J 4(A), J 5(B)
Junction
Connector
E
A
E
A
B–W
B–W
W–B
7
IB2
B–W
3
ELS2
E 5
Engine Control
Module
B–W
4
BE2
B–W
1
BF1
B
1
A
R11(A), R12(B)
Rear Window Defogger
1
B
B
1
BG1
W–B
BJ
B–W
1
N 2
Noise Filter
(Rear Window Defogger)
W–B
W–B
A
A
J 8
Junction
Connector
J 1
Junction
Connector
W–B
IG
IE

: Parts Location

Code	See Page	Code		See Page	Code		See Page
C6	30	J4	A	31	R4		31
E5	30	J5	B	31	R11	A	33
J1	31	J8		31	R12	B	33
J2	31	N2		32			

: Junction Block and Wire Harness Connector

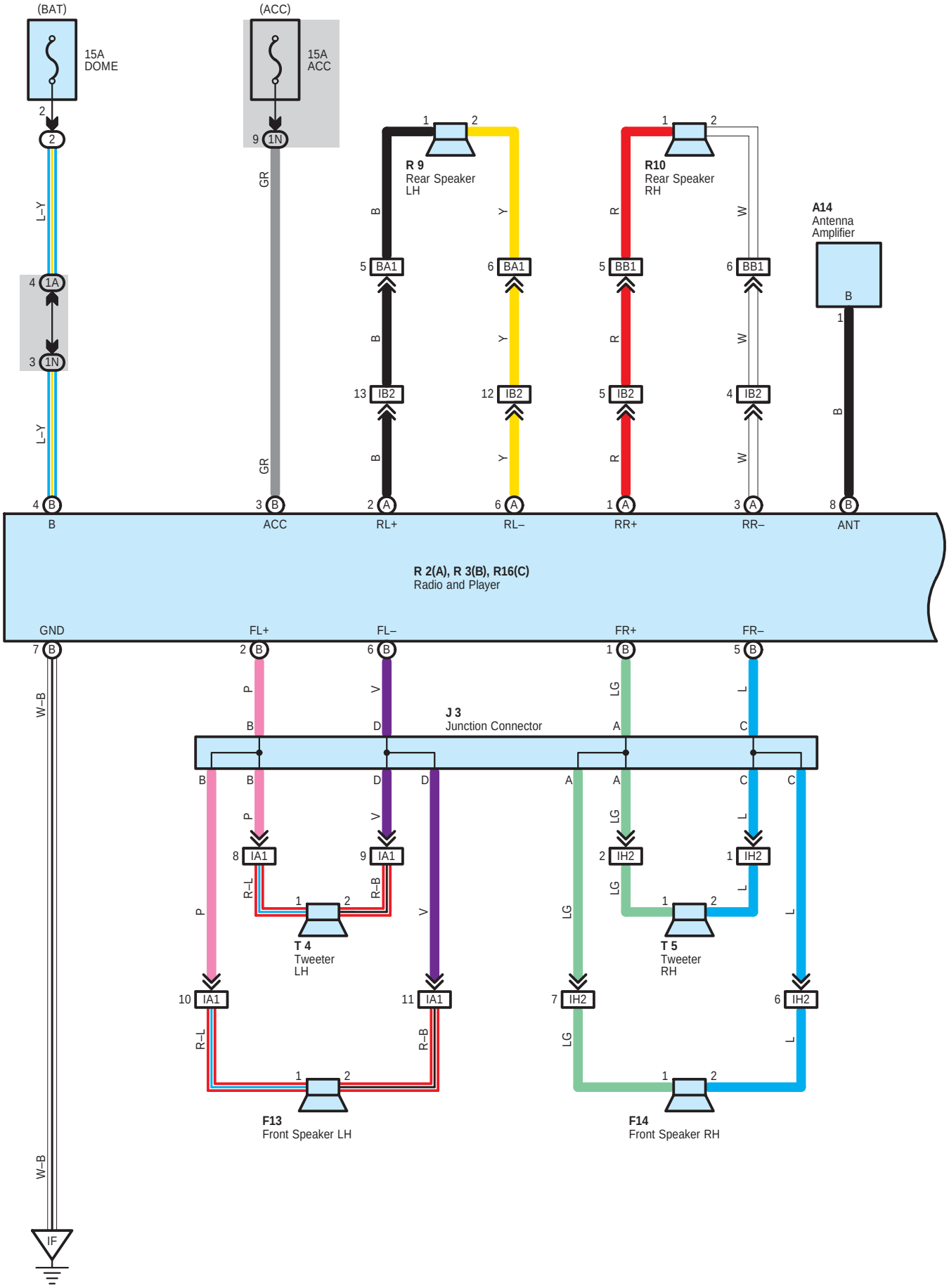
Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1R		

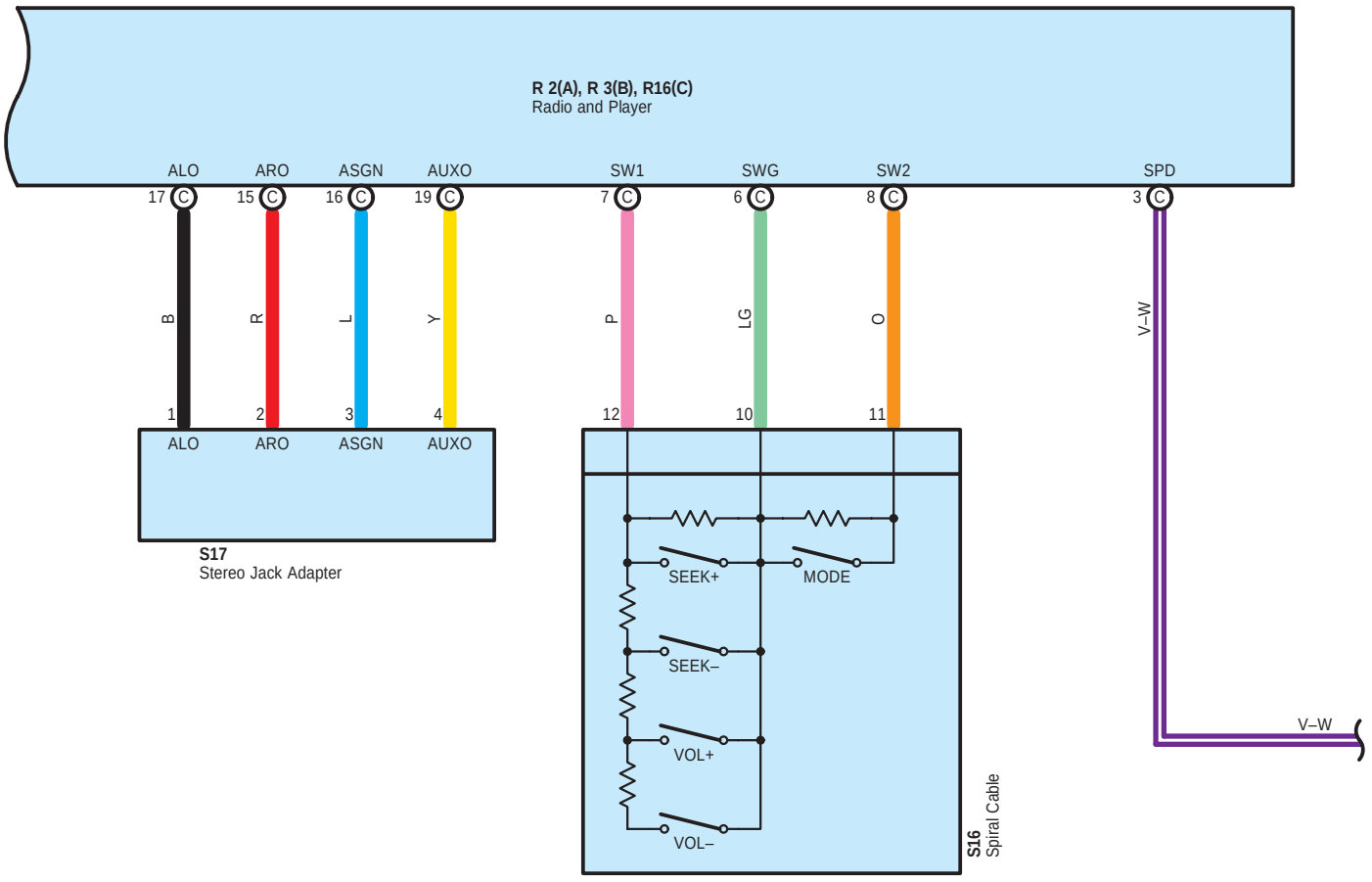
: Connector Joining Wire Harness and Wire Harness

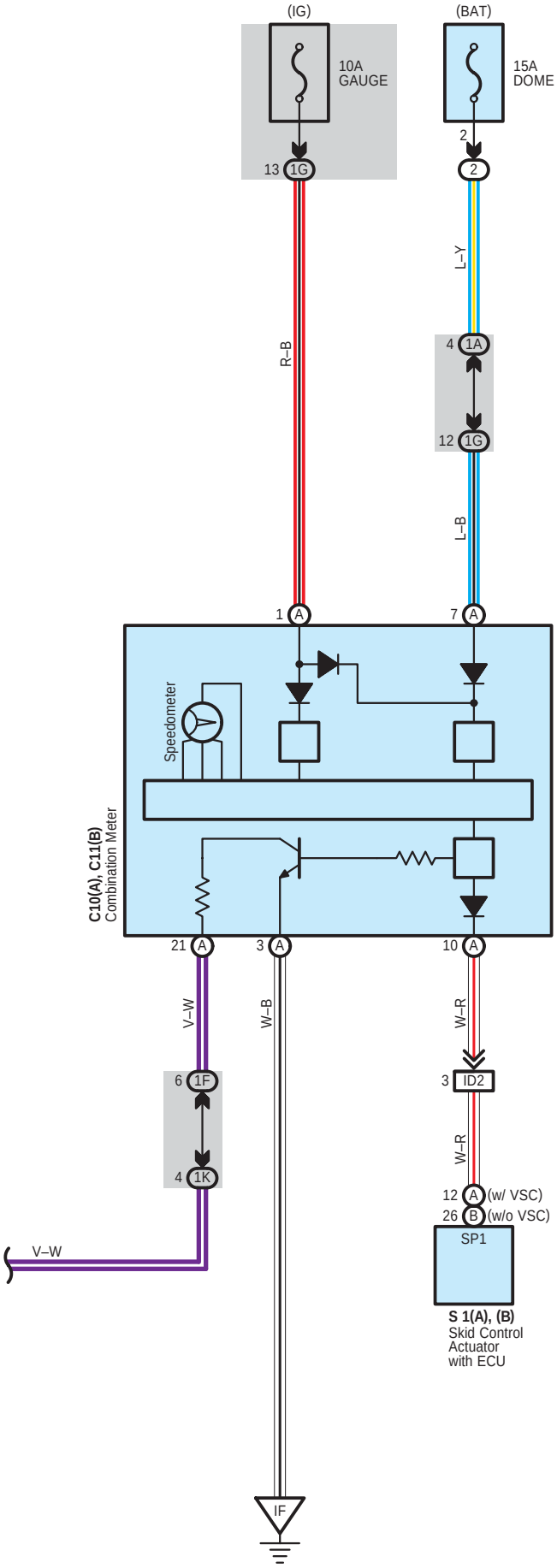
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
BE2	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BF1	38	Back Door No.1 Wire and Rear Door No.1 Wire (Left Side of the Back Door Panel)
BG1	38	Back Door No.1 Wire and Rear Door No.1 Wire (Right Side of the Back Door Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IG	36	Right Kick Panel
BJ	38	Back Door Panel LH


(BAT)
15A
DOME
(ACC)
15A
ACC
R 9
Rear Speaker
LH
R10
Rear Speaker
RH
A14
Antenna
Amplifier
R 2(A), R 3(B), R16(C)
Radio and Player
J 3
Junction Connector
T 4
Tweeter
LH
T 5
Tweeter
RH
F13
Front Speaker LH
F14
Front Speaker RH
B
ACC
RL+
RL–
RR+
RR–
ANT
GND
FL+
FL–
FR+
FR–
IF


R 2(A), R 3(B), R16(C)
Radio and Player
ALO
ARO
ASGN
AUXO
SW1
SWG
SW2
SPD
17
15
16
19
7
6
8
3
B
R
L
Y
P
LG
O
V–W
1
2
3
4
12
10
11
ALO
ARO
ASGN
AUXO
S17
Stereo Jack Adapter
SEEK+
MODE
SEEK–
VOL+
VOL–
V–W
S16
Spiral Cable


(IG)
(BAT)
10A
GAUGE
15A
DOME
13 1G
2
2
L–Y
R–B
4 1A
12 1G
L–B
1 A
7 A
Speedometer
C10(A), C11(B)
Combination Meter
21 A
3 A
10 A
V–W
W–B
W–R
6 1F
4 1K
3 ID2
W–R
12 A (w/ VSC)
26 B (w/o VSC)
SP1
V–W
S 1(A), (B)
Skid Control
Actuator
with ECU
IF

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A14	30	R2 A	31	S1 B	29
C10 A	30	R3 B	31	S16	31
C11 B	30	R9	33	S17	31
F13	32	R10	33	T4	33
F14	32	R16 C	31	T5	33
J3	31	S1 A	29		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

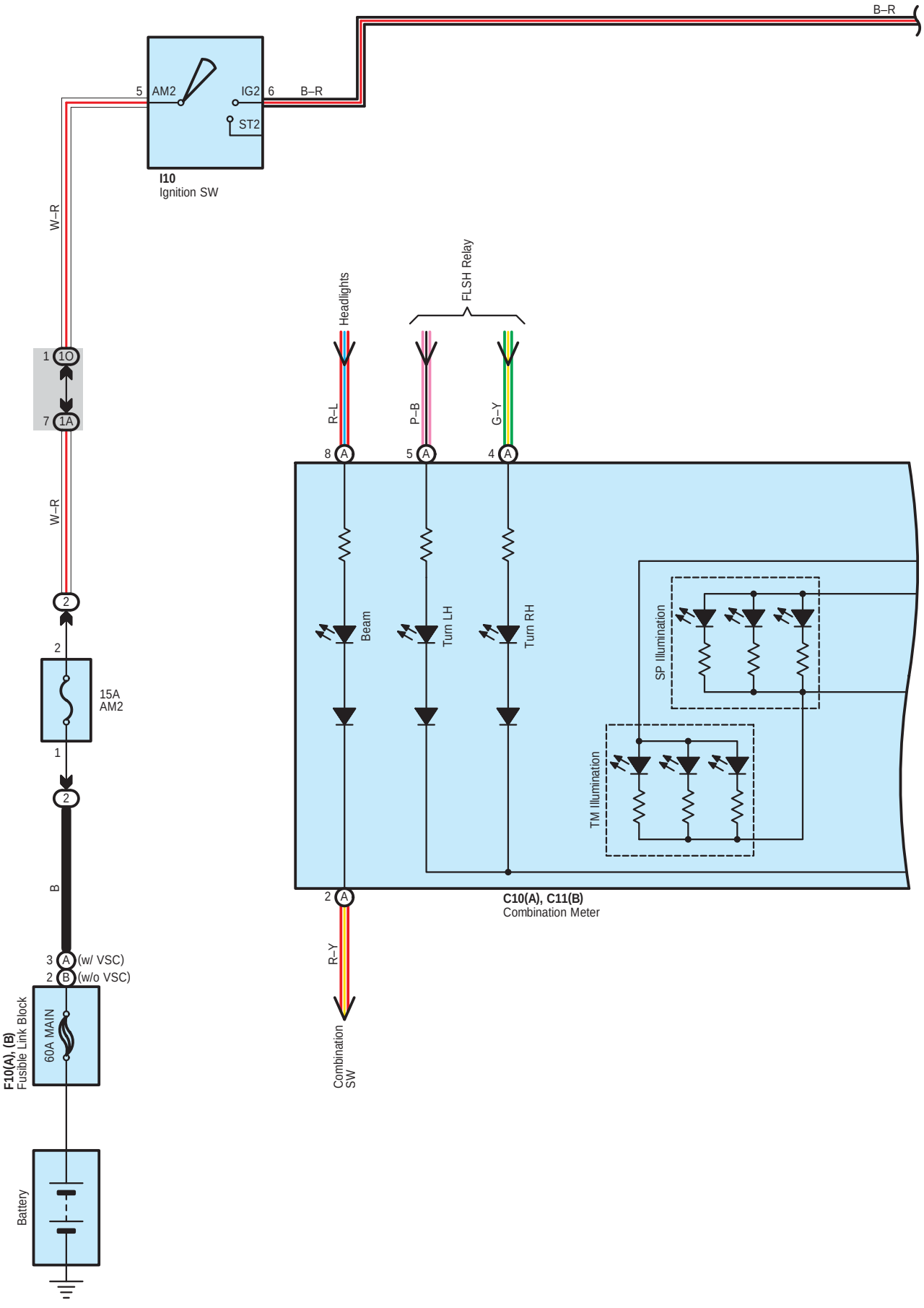
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1K		
1N		

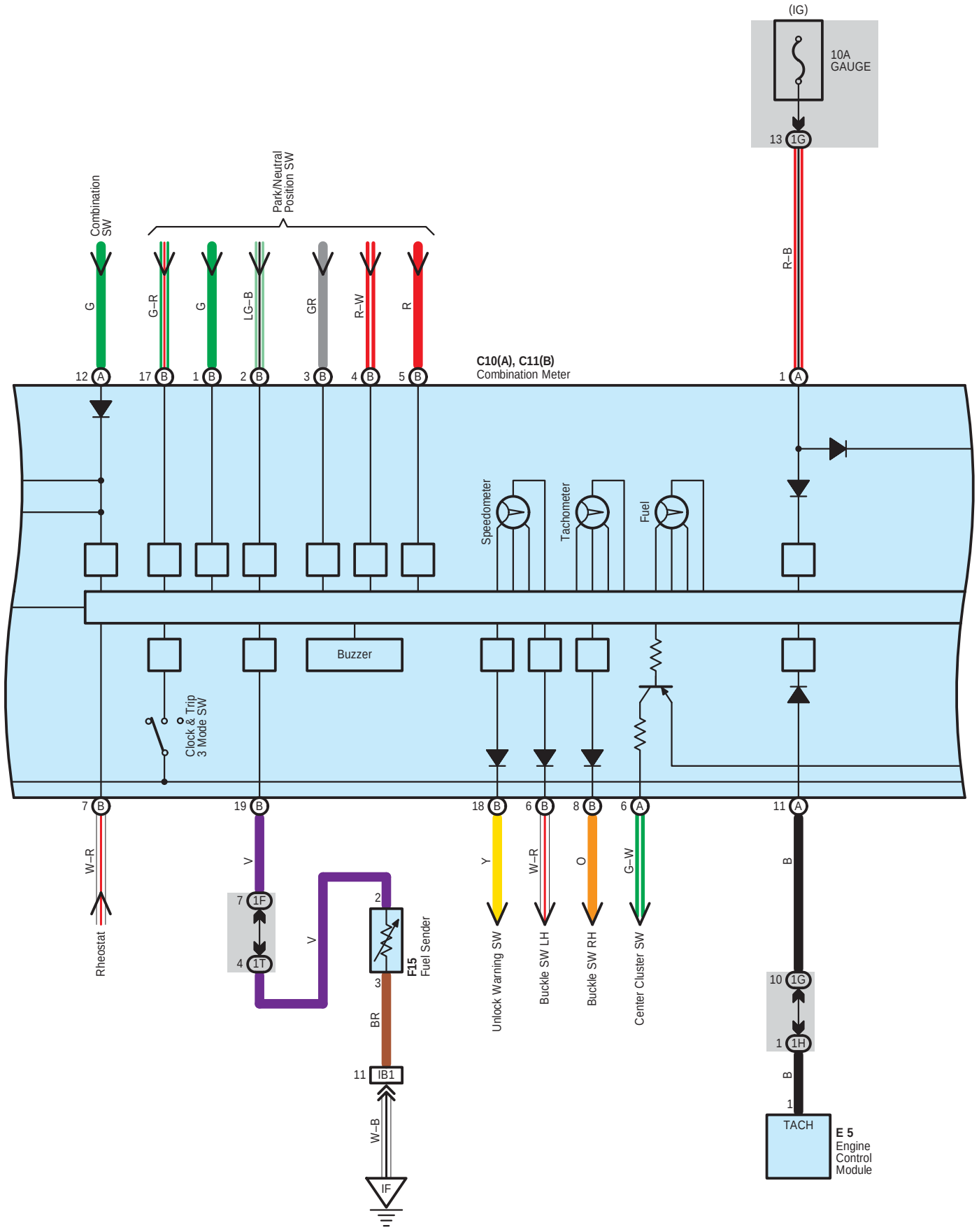
: Connector Joining Wire Harness and Wire Harness

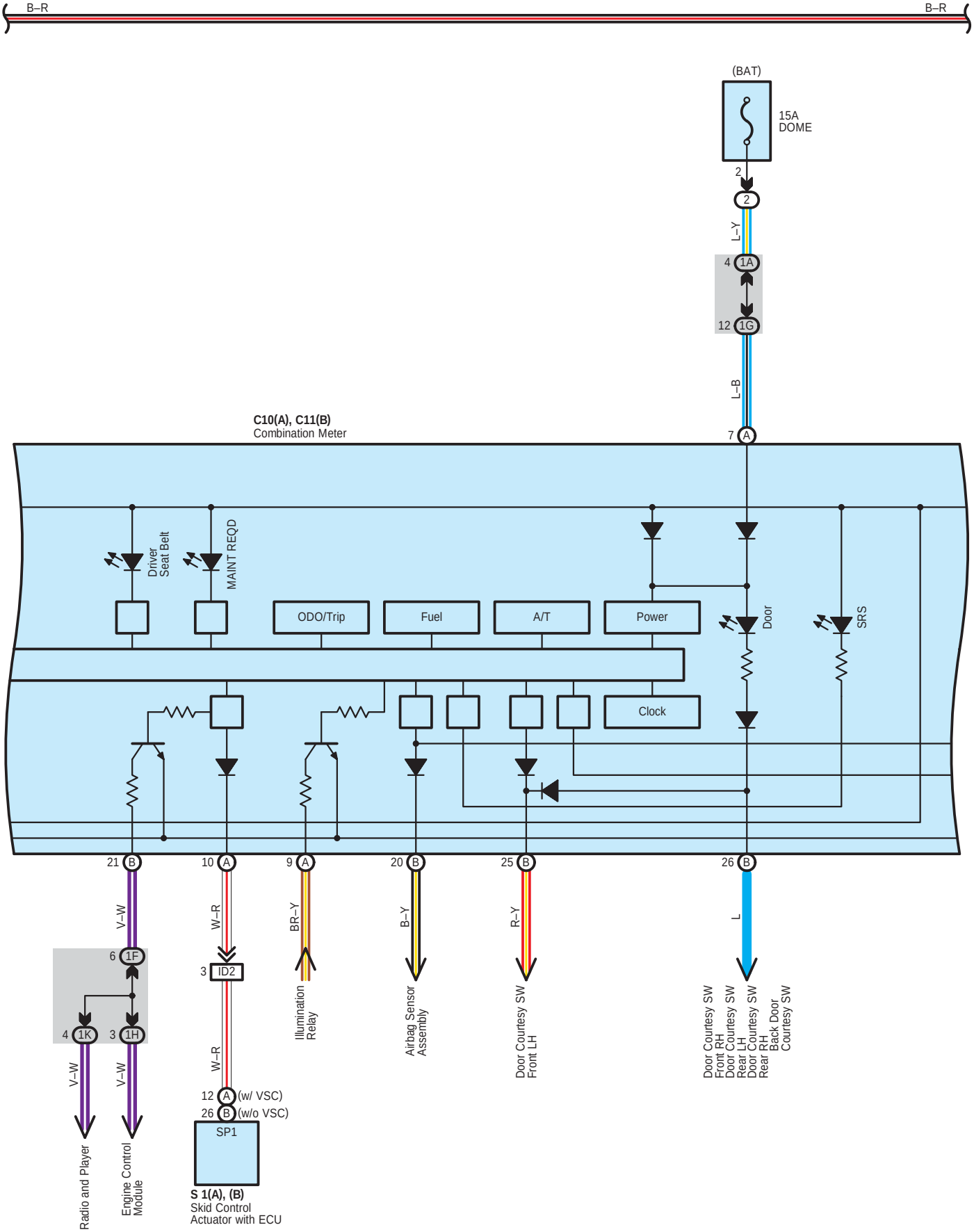
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IB2	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IH2	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	38	Rear Door LH Wire and Floor Wire (Center Pillar LH)
BB1	38	Rear Door RH Wire and Floor Wire (Center Pillar RH)

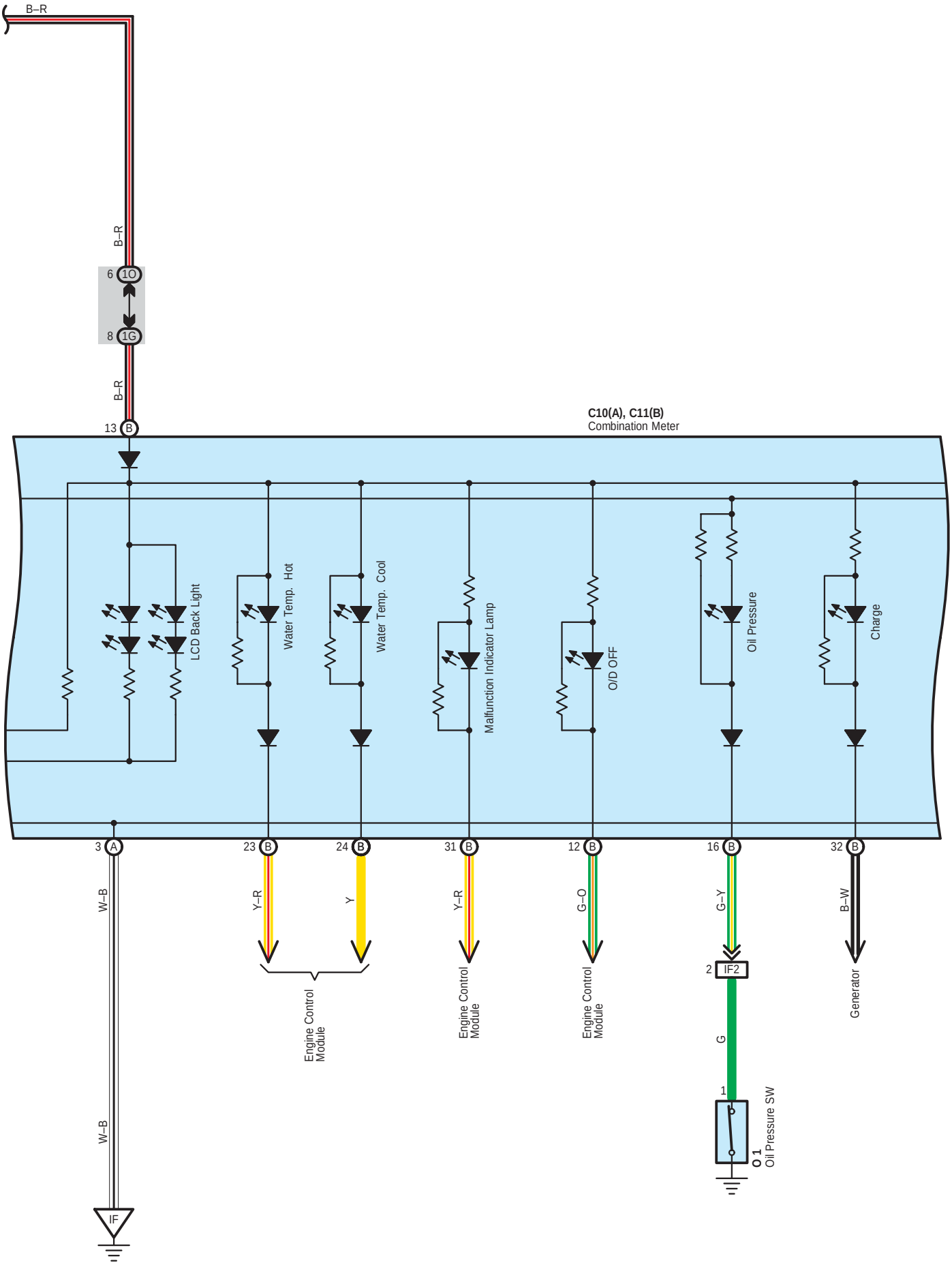
: Ground Points

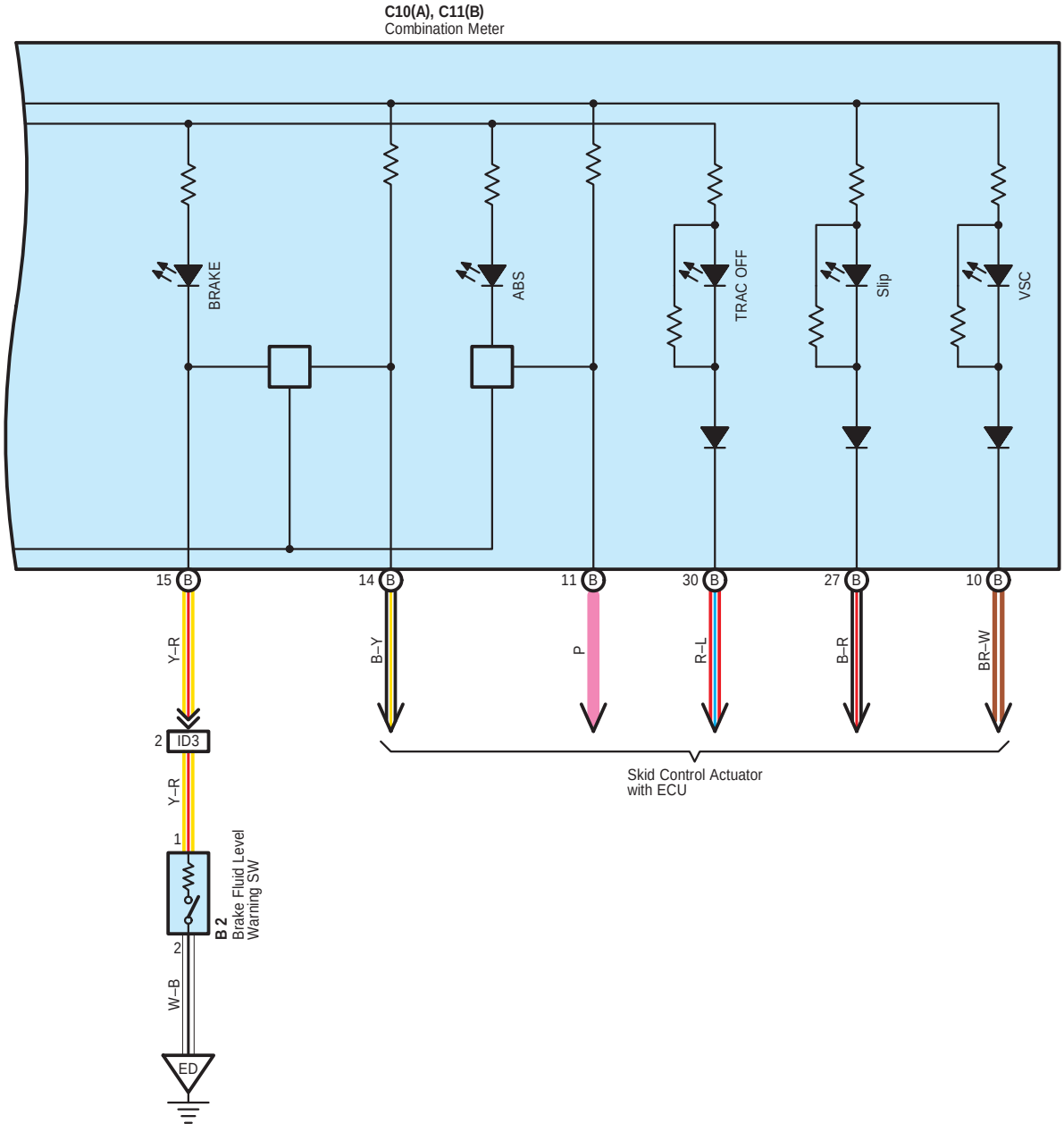
Code	See Page	Ground Points Location
IF	36	Instrument Panel Brace LH


B–R
5 AM2
IG2 6 B–R
ST2
I10
Ignition SW
W–R
1 1O
7 1A
W–R
2
2
15A
AM2
1
2
B
3 A (w/ VSC)
2 B (w/o VSC)
F10(A), (B)
Fusible Link Block
60A MAIN
Battery
Headlights
FLSH Relay
R–L
P–B
G–Y
8 A
5 A
4 A
Beam
Turn LH
Turn RH
SP Illumination
TM Illumination
2 A
C10(A), C11(B)
Combination Meter
R–Y
Combination SW


B–R
B–R
(IG)
10A
GAUGE
13 1G
R–B
1 A
Combination
SW
Park/Neutral
Position SW
G
G–R
G
LG–B
GR
R–W
R
12 A
17 B
1 B
2 B
3 B
4 B
5 B
C10(A), C11(B)
Combination Meter
Speedometer
Tachometer
Fuel
Buzzer
Clock & Trip
3 Mode SW
7 B
19 B
18 B
6 B
8 B
6 A
11 A
W–R
V
Y
W–R
O
G–W
B
Rheostat
7 1F
4 1T
V
2
3
F15
Fuel Sender
BR
11 IB1
W–B
IF
Unlock Warning SW
Buckle SW LH
Buckle SW RH
Center Cluster SW
10 1G
1 1H
B
1
TACH
E 5
Engine
Control
Module


B–R
B–R
(BAT)
15A
DOME
2
2
L–Y
4 1A
12 1G
L–B
7 A
C10(A), C11(B)
Combination Meter
Driver Seat Belt
MAINT REQD
ODO/Trip
Fuel
A/T
Power
Door
SRS
Clock
21 B
10 A
9 A
20 B
25 B
26 B
V–W
W–R
BR–Y
B–Y
R–Y
L
6 1F
4 1K
3 1H
3 ID2
W–R
V–W
V–W
12 A (w/ VSC)
26 B (w/o VSC)
SP1
Illumination Relay
Airbag Sensor Assembly
Door Courtesy SW Front LH
Door Courtesy SW Front RH
Door Courtesy SW Rear LH
Door Courtesy SW Rear RH
Back Door Courtesy SW
Radio and Player
Engine Control Module
S 1(A), (B)
Skid Control Actuator with ECU


B–R
B–R
6 1O
8 1G
B–R
13 B
C10(A), C11(B)
Combination Meter
LCD Back Light
Water Temp. Hot
Water Temp. Cool
Malfunction Indicator Lamp
O/D OFF
Oil Pressure
Charge
3 A
23 B
24 B
31 B
12 B
16 B
32 B
W–B
W–B
IF
Y–R
Y
Engine Control Module
Y–R
Engine Control Module
G–O
Engine Control Module
G–Y
2 IF2
G
1
O 1
Oil Pressure SW
B–W
Generator


C10(A), C11(B)
Combination Meter
BRAKE
ABS
TRAC OFF
Slip
VSC
15 B
14 B
11 B
30 B
27 B
10 B
Y–R
B–Y
P
R–L
B–R
BR–W
2 ID3
Y–R
1
B 2
Brake Fluid Level
Warning SW
2
W–B
ED
Skid Control Actuator
with ECU

: Parts Location

Code		See Page	Code		See Page	Code		See Page
B2		28	F10	A	28	O1		29
C10	A	30		B	28	S1	A	29
C11	B	30	F15		32		B	29
E5		30	I10		31			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K		
1O		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

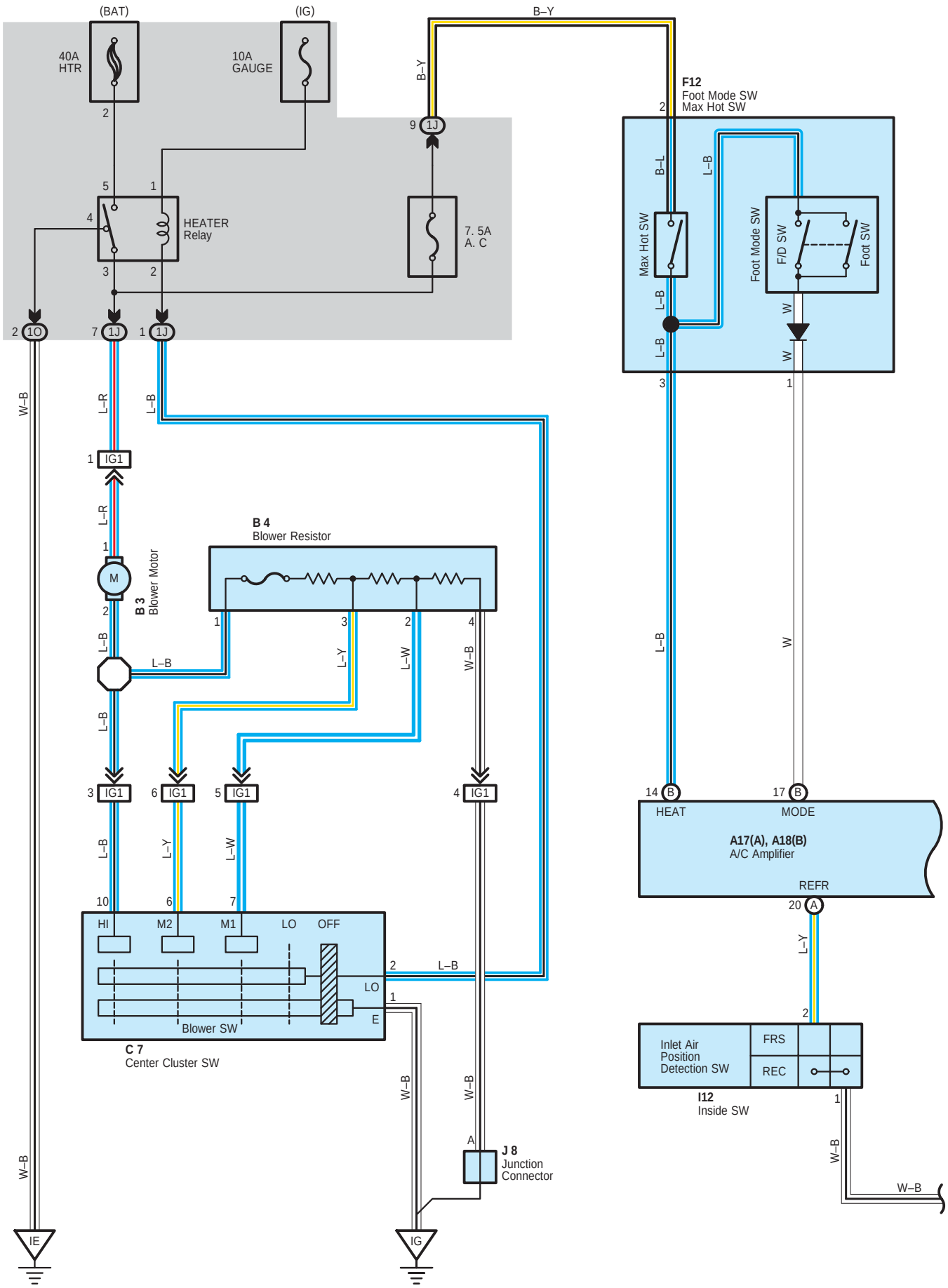
: Connector Joining Wire Harness and Wire Harness

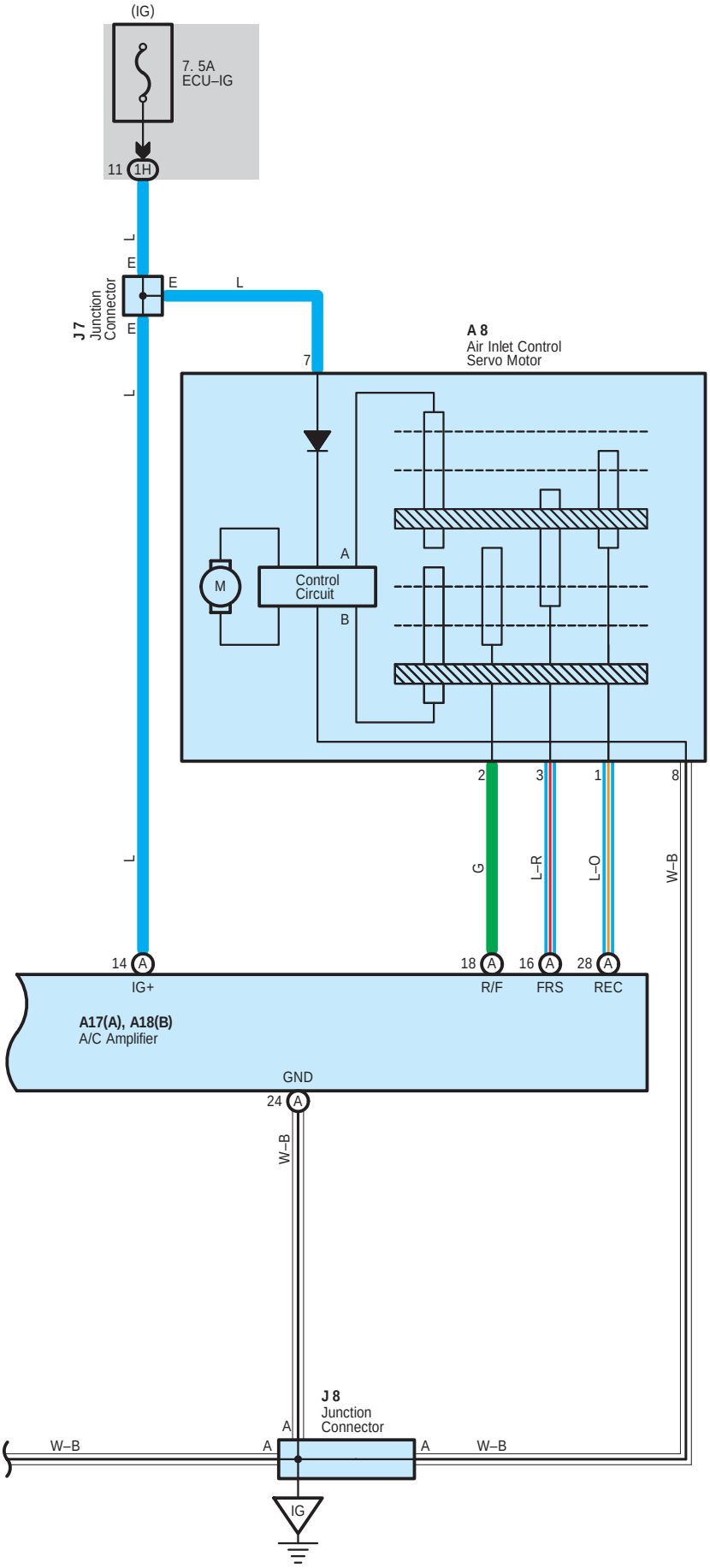
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
ID3		
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)

: Ground Points

Code	See Page	Ground Points Location
ED	34	Front Fender Apron LH
IF	36	Instrument Panel Brace LH

Two Way Flow Heater




(IG)
7. 5A
ECU–IG
11
1H
L
E
J 7
Junction
Connector
E
L
E
L
7
A 8
Air Inlet Control
Servo Motor
A
M
Control
Circuit
B
2
3
1
8
G
L–R
L–O
W–B
14
A
IG+
18
A
R/F
16
A
FRS
28
A
REC
A17(A), A18(B)
A/C Amplifier
GND
24
A
W–B
J 8
Junction
Connector
A
W–B
A
A
W–B
IG

Two Way Flow Heater

System Outline

When all of the following conditions are met, the recirculation/fresh air inlet damper is switched to the DUAL MODE position.
* The recirculation/fresh air switch is at FRESH position
* The blower SW is on.
* The max hot SW is on.
* The foot mode SW is at FOOT or F/D position.

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A8		30	B4	30	J7	31
A17	A	30	C7	30	J8	31
A18	B	30	F12	30		
B3		30	I12	31		

: Junction Block and Wire Harness Connector

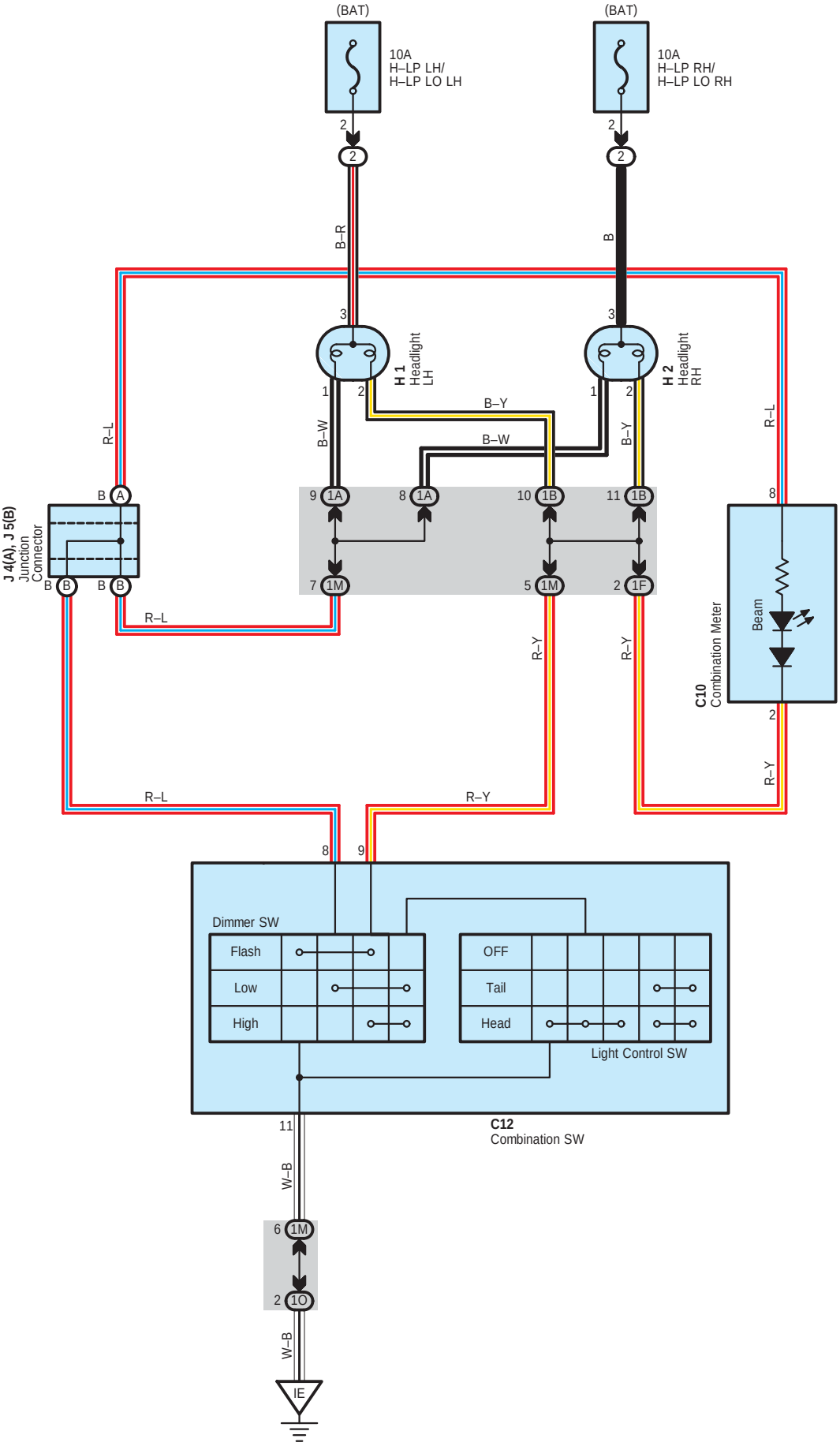
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1O		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	37	Instrument Panel Wire and A/C Sub Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IG	36	Right Kick Panel


(BAT)
10A
H–LP LH/
H–LP LO LH
(BAT)
10A
H–LP RH/
H–LP LO RH
B–R
B
H 1
Headlight
LH
H 2
Headlight
RH
B–Y
B–W
B–W
B–Y
R–L
R–L
J 4(A), J 5(B)
Junction
Connector
1A
1A
1B
1B
1M
1M
1F
C10
Combination Meter
Beam
R–L
R–Y
R–Y
R–Y
R–L
Dimmer SW
Flash
Low
High
OFF
Tail
Head
Light Control SW
C12
Combination SW
W–B
1M
1O
W–B
IE

: Parts Location

Code	See Page	Code	See Page	Code		See Page
C10	30	H1	28	J4	A	31
C12	30	H2	28	J5	B	31

: Relay Blocks

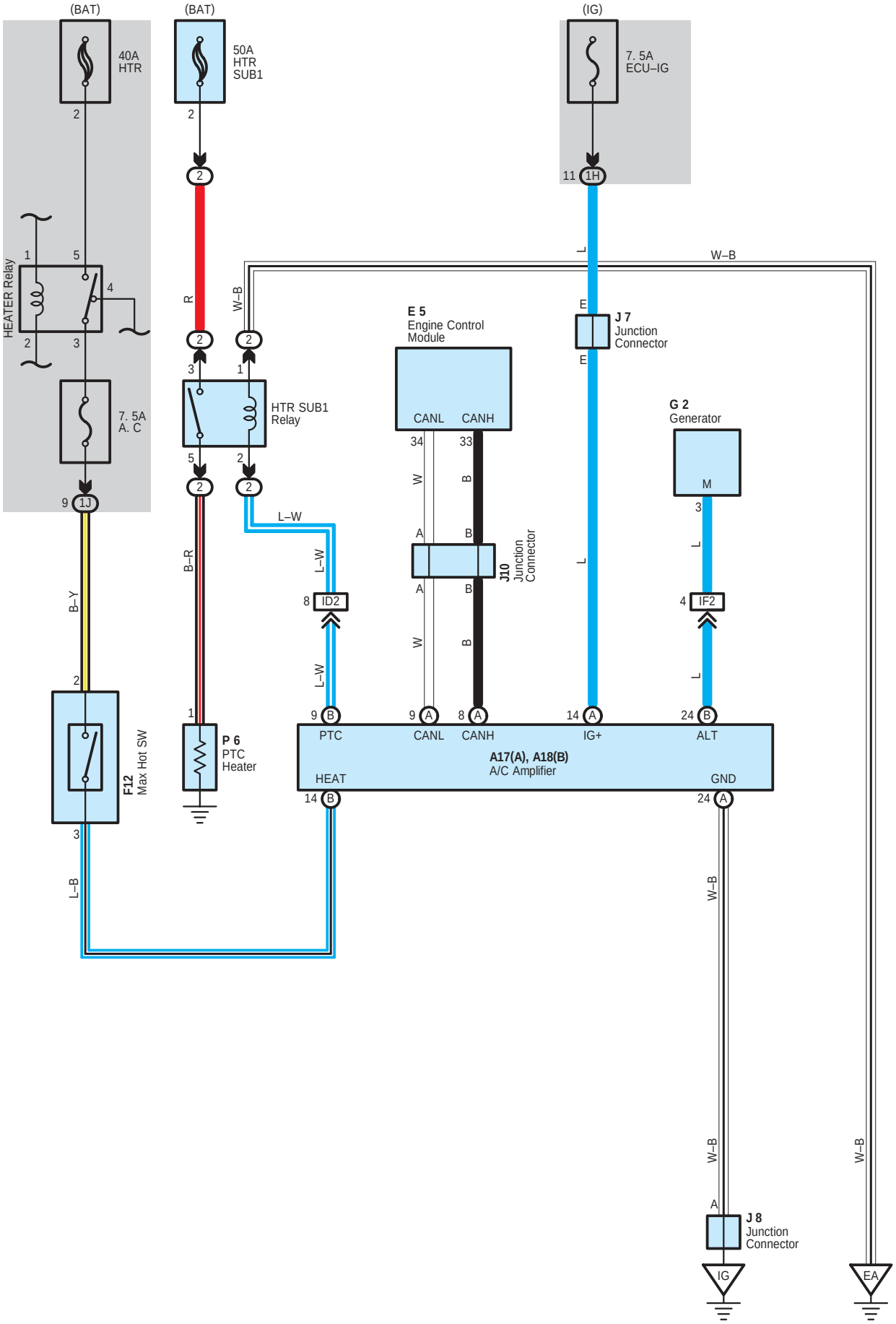
Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1M		
1O		

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel


(BAT)
(BAT)
(IG)
40A HTR
50A HTR SUB1
7. 5A ECU–IG
HEATER Relay
7. 5A A. C
HTR SUB1 Relay
E 5 Engine Control Module
J 7 Junction Connector
G 2 Generator
J10 Junction Connector
F12 Max Hot SW
P 6 PTC Heater
A17(A), A18(B) A/C Amplifier
PTC
CANL
CANH
IG+
ALT
HEAT
GND
ID2
IF2
J 8 Junction Connector
IG
EA
W–B
L
R
B–R
B–Y
L–W
L–B
W
B

System Outline

When all of the following conditions are met, the PTC heater operates.
* The engine coolant temp. has reached the specified temperature.
* The engine RPM has exceeded the specified RPM for more than 5 seconds continuously.
* The max hot SW is on.

If any of the above conditions change, the PTC heater stops. The PTC heater is turned on/off according to the generator's charge/discharge condition.

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A17	A	30	F12	30	J8	31
A18	B	30	G2	28	J10	31
E5		30	J7	31	P6	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

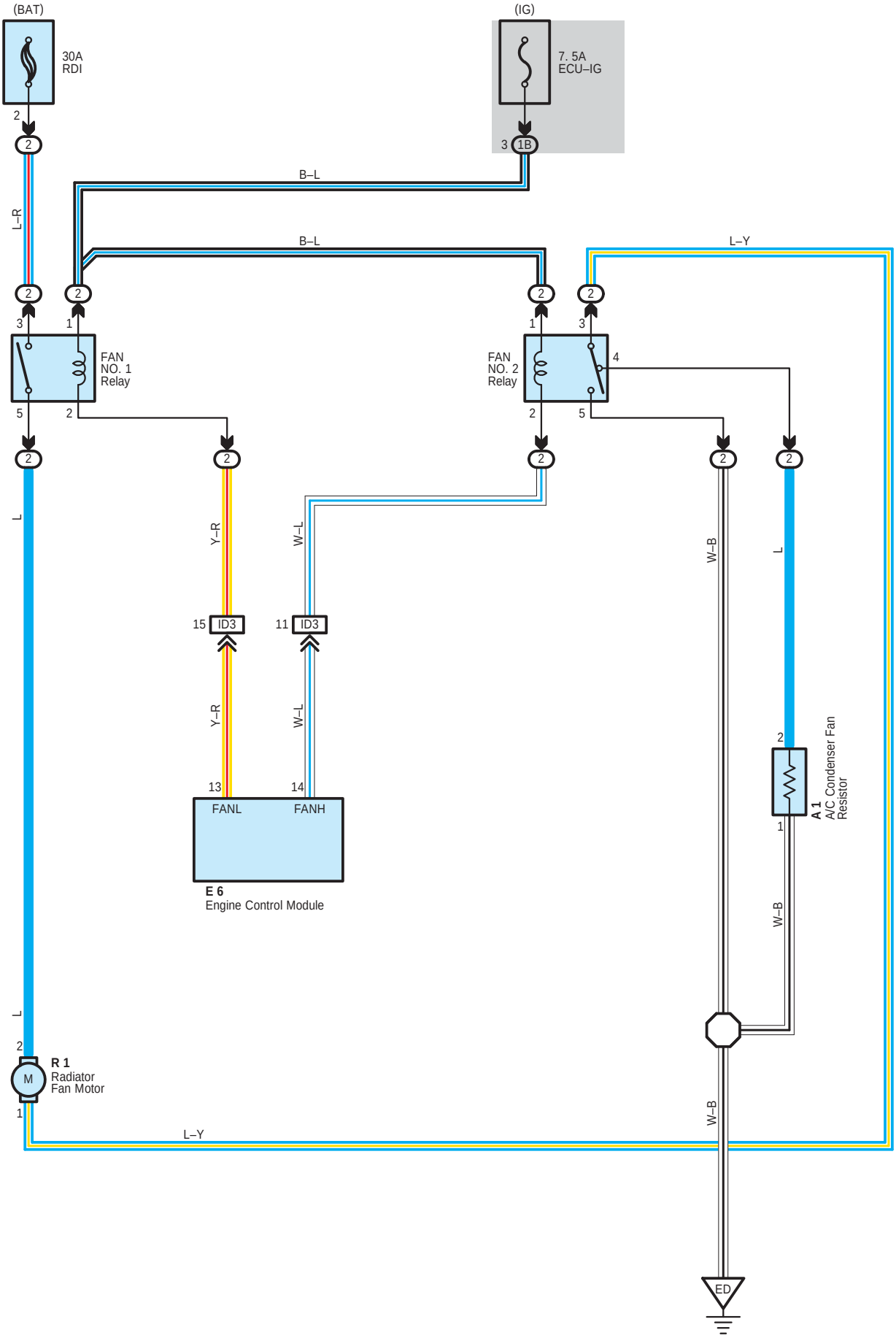
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Fender Apron RH
IG	36	Right Kick Panel


(BAT)
30A
RDI
(IG)
7. 5A
ECU–IG
3 1B
B–L
L–R
B–L
L–Y
FAN
NO. 1
Relay
FAN
NO. 2
Relay
Y–R
W–L
15 ID3
11 ID3
Y–R
W–L
13 FANL
14 FANH
E 6
Engine Control Module
W–B
L
A 1
A/C Condenser Fan
Resistor
W–B
L
R 1
Radiator
Fan Motor
L–Y
W–B
ED

System Outline

The current is applied at all times through the RDI fuse to TERMINAL 3 of the FAN NO.1 relay.
When the ignition SW is turned on, the current flows through the ECU–IG fuse to FAN NO.1 relay (Coil side) to TERMINAL 6 of the engine control module. At the same time as this current flow, the current from ECU–IG fuse flows to the FAN NO.2 relay (Coil side) to TERMINAL 7 of the engine control module.

1. Low Speed Operation

When the A/C system is operating, the FAN NO.1 Relay is turned on. As a result, the current flows from the RDI fuse to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 4 to TERMINAL 2 of the A/C condenser fan resistor to TERMINAL 1 to GROUND, and the radiator fan motor rotates at low speed.

2. High Speed Operation

When the engine control module operated, the FAN NO.1 and NO.2 relay is turned on. As a result, the current flows from the RDI fuse to FAN NO.1 relay (Point side) to radiator fan motor to TERMINAL 3 of the FAN NO.2 Relay to TERMINAL 5 to GROUND, and the radiator fan motor rotates at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	28	E6	30	R1	29

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

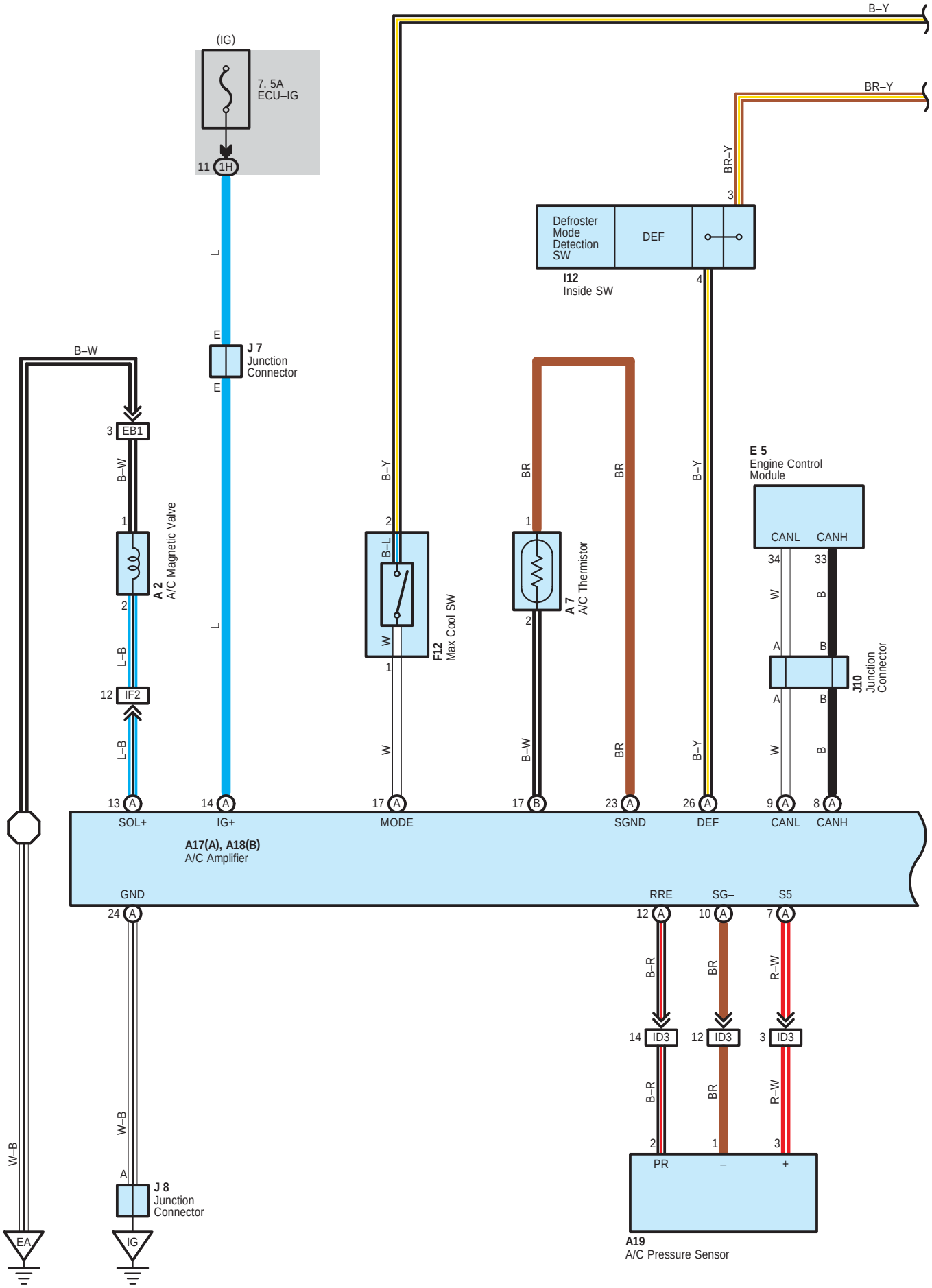
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

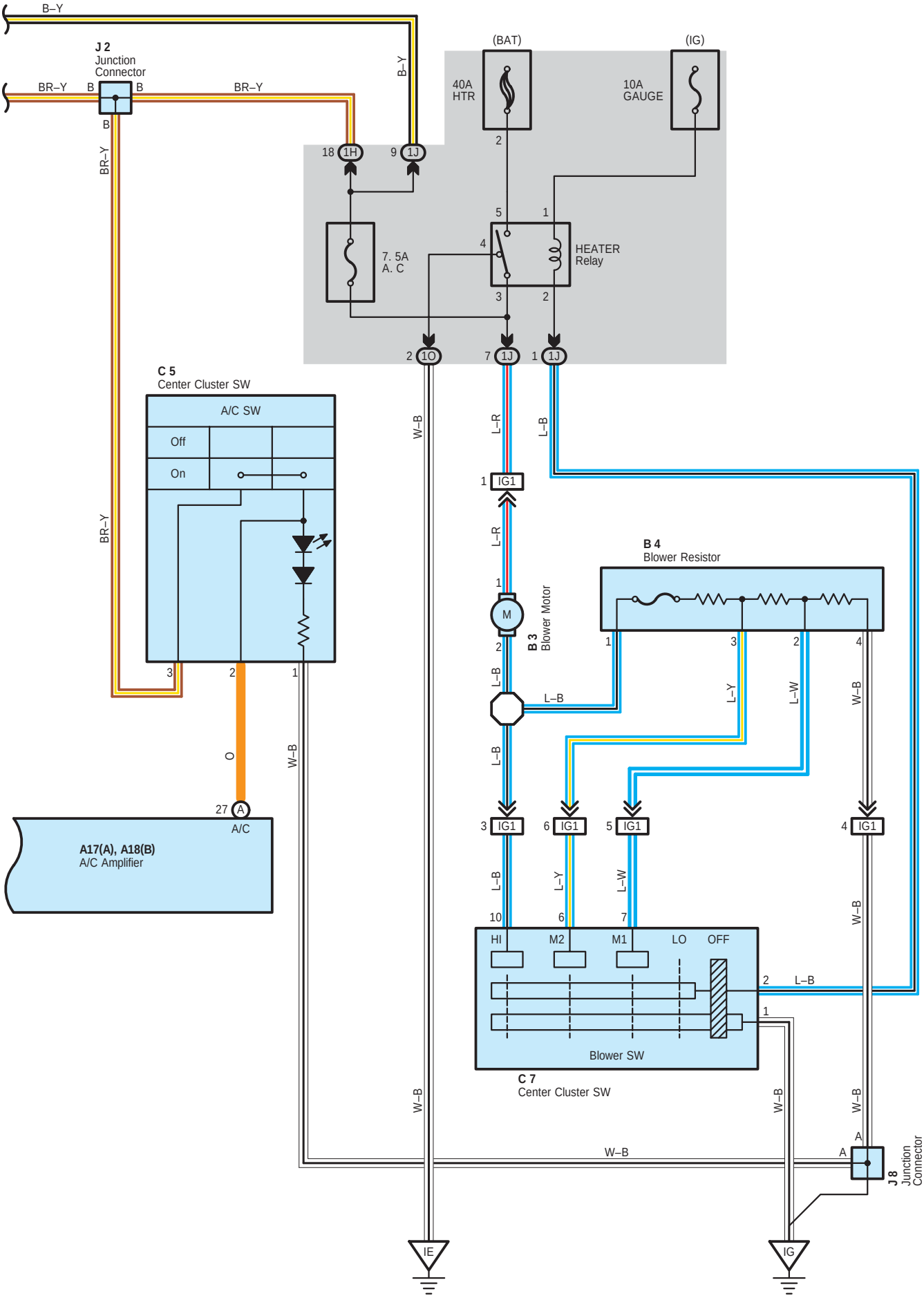
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

: Ground Points

Code	See Page	Ground Points Location
ED	34	Front Fender Apron LH


B–Y
BR–Y
(IG)
7. 5A
ECU–IG
11 1H
L
E
J 7
Junction
Connector
E
L
BR–Y
3
Defroster
Mode
Detection
SW
DEF
I12
Inside SW
4
B–W
3 EB1
B–W
1
A 2
A/C Magnetic Valve
2
L–B
12 IF2
L–B
B–Y
2
B–L
W
1
F12
Max Cool SW
BR
1
A 7
A/C Thermistor
2
B–W
BR
B–Y
E 5
Engine Control
Module
CANL
CANH
34
33
W
B
A
B
J10
Junction
Connector
A
B
W
B
13 A
SOL+
14 A
IG+
17 A
MODE
17 B
23 A
SGND
26 A
DEF
9 A
CANL
8 A
CANH
A17(A), A18(B)
A/C Amplifier
GND
24 A
RRE
12 A
SG–
10 A
S5
7 A
B–R
BR
R–W
14 ID3
12 ID3
3 ID3
B–R
BR
R–W
2
1
3
PR
–
+
A19
A/C Pressure Sensor
W–B
W–B
A
J 8
Junction
Connector
EA
IG


B–Y
J 2
Junction
Connector
BR–Y
B
B
BR–Y
B
BR–Y
B–Y
(BAT)
(IG)
40A
HTR
10A
GAUGE
2
18
1H
9
1J
5
1
4
7. 5A
A. C
HEATER
Relay
3
2
2
1O
7
1J
1
1J
C 5
Center Cluster SW
A/C SW
Off
On
BR–Y
W–B
L–R
L–B
1
IG1
L–R
B 4
Blower Resistor
1
M
2
B 3
Blower Motor
L–B
L–B
1
3
2
4
L–Y
L–W
W–B
L–B
O
W–B
3
2
1
27
A
A/C
A17(A), A18(B)
A/C Amplifier
3
IG1
6
IG1
5
IG1
4
IG1
L–B
L–Y
L–W
W–B
10
6
7
HI
M2
M1
LO
OFF
2
L–B
1
Blower SW
C 7
Center Cluster SW
W–B
W–B
W–B
A
A
W–B
J 8
Junction
Connector
IE
IG

System Outline

Current is applied at all times through the HTR fuse to TERMINAL 5 of the HTR relay.
When the ignition SW is turned on, the current flows through the GAUGE fuse to TERMINAL 1 of the HTR relay to TERMINAL 2 to TERMINAL 6 of the blower SW.

Blower Motor Operation

* Low speed operation
  When the blower SW is moved to LO position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on. This causes the current flows from the HTR fuse 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, rotating the blower motor at low speed.

* Medium speed operation (Operation at M1, M2)
  When the blower SW is moved to M1 position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on. This causes the current flows from the FR HTR fuse 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 7 of the blower SW to TERMINAL 5 to GROUND. At this time, the blower resistance of the blower resistor is smaller than at low speed, so the blower motor rotates at medium low speed.
  When the blower SW is moved to M2 position, the current flows through the HTR relay to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL 6 of the blower SW to TERMINAL 1 to GROUND. At this time, resistance of the blower resistor is smaller than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation
  When the blower SW is moved to HI position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on.
  This causes the current flows from the HTR fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 10 of the blower SW to TERMINAL 1 to GROUND, rotating the blower motor at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	28	B4	30	J2	31
A7	30	C5	30	J7	31
A17 A	30	C7	30	J8	31
A18 B	30	E5	30	J10	31
A19	28	F12	30		
B3	30	I12	31		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1O		

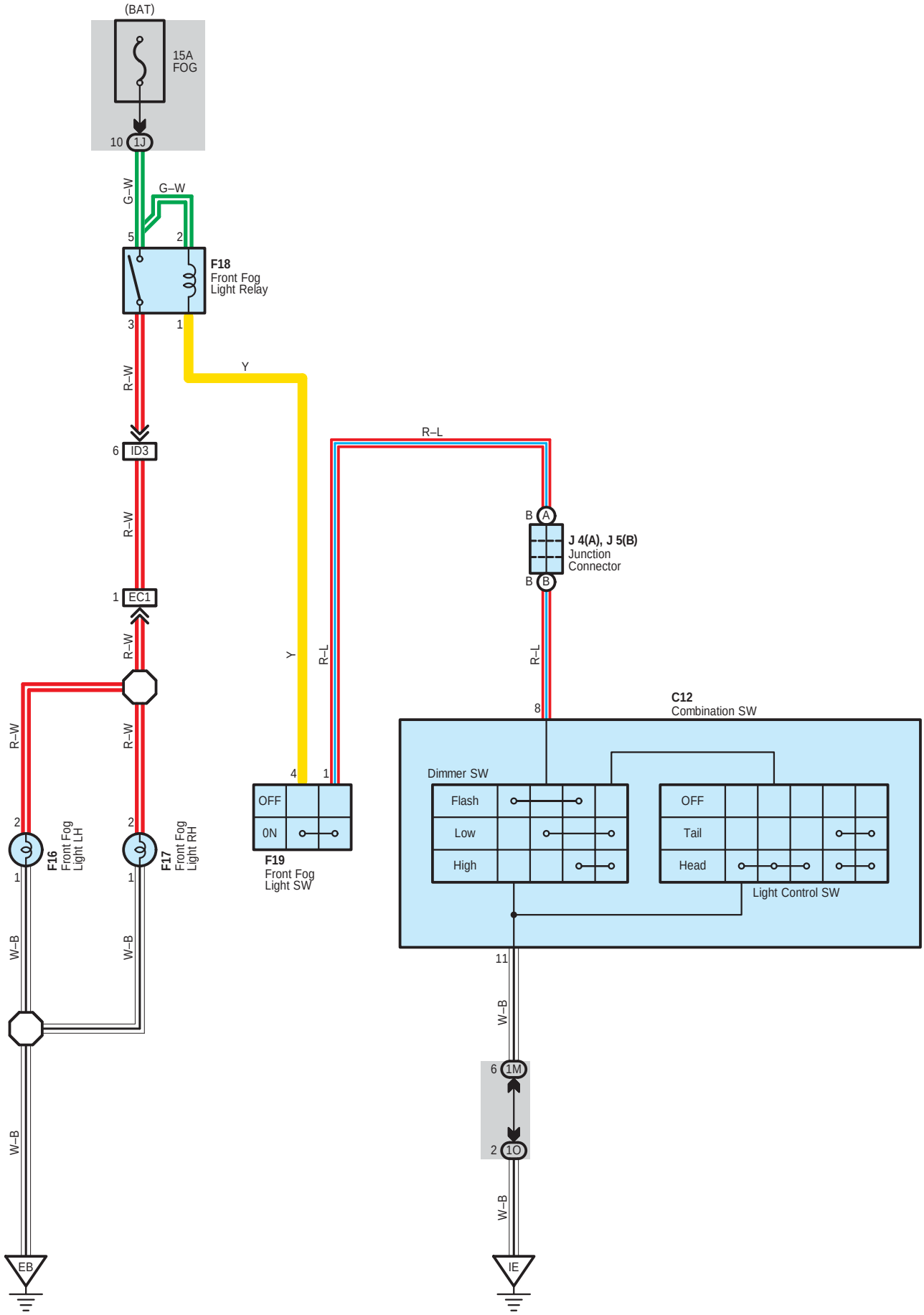
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	34	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
IG1	37	Instrument Panel Wire and A/C Sub Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Fender Apron RH
IE	36	Left Kick Panel
IG	36	Right Kick Panel

Front Fog Light



○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C12	30	F18	30	J5 B	31
F16	28	F19	30		
F17	28	J4 A	31		

⬭ : Junction Block and Wire Harness Connector

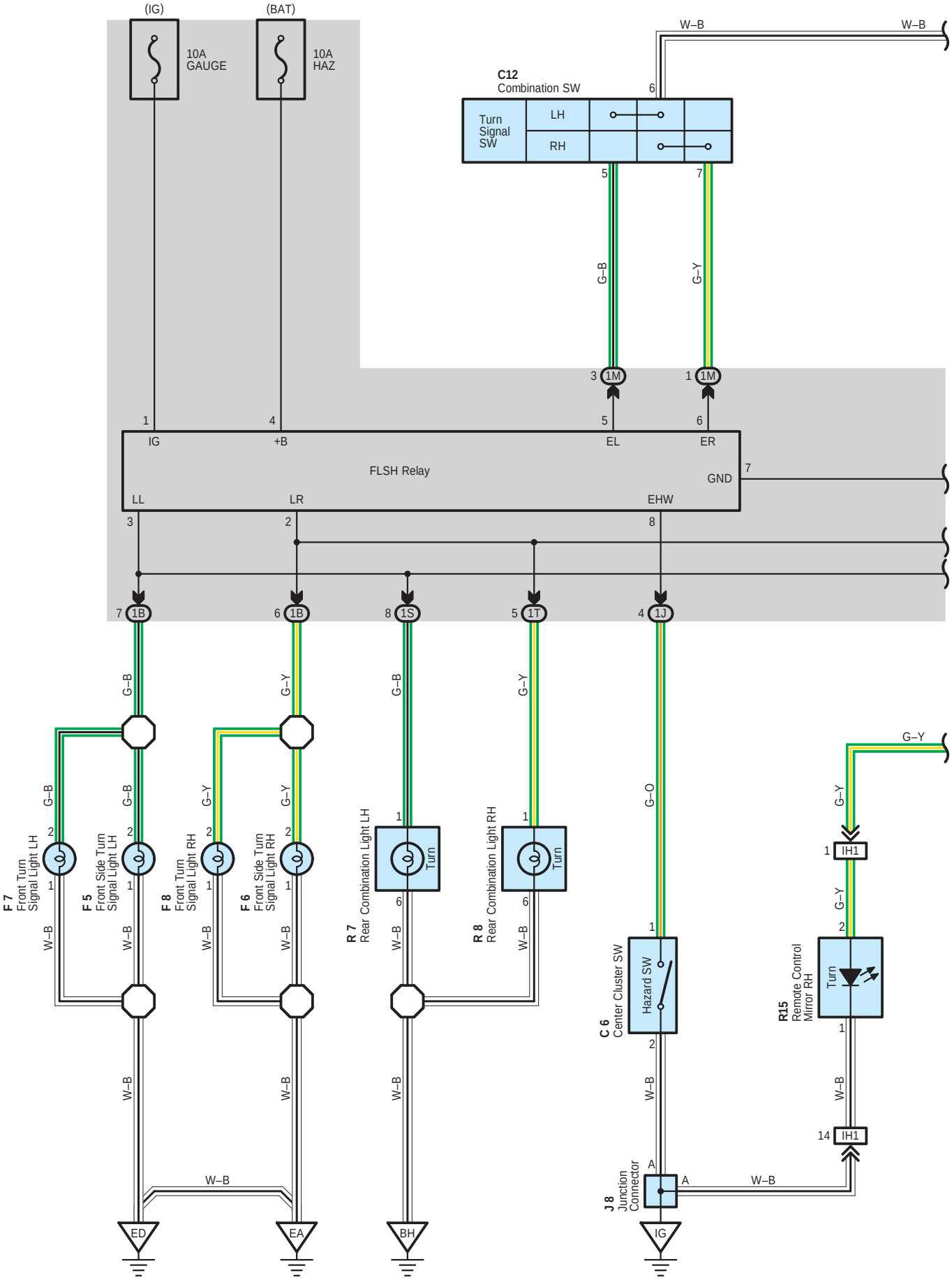
Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1M		
1O		

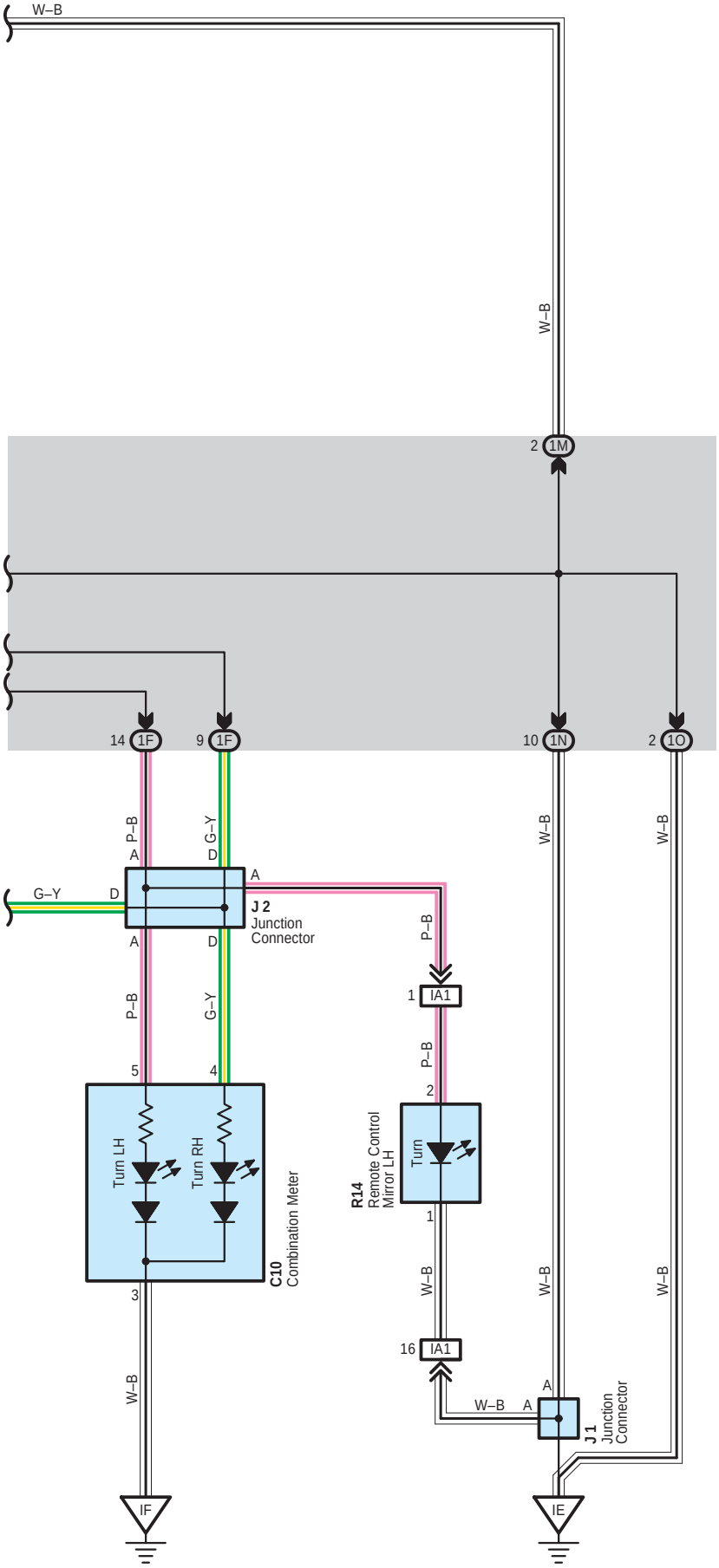
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	34	Engine Room Main Wire and Lamp Wire (Behind the Radiator Side Support LH)
ID3	36	Engine Room Main Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)

▽ : Ground Points

Code	See Page	Ground Points Location
EB	34	Front Fender Apron RH
IE	36	Left Kick Panel


(IG)
(BAT)
10A
GAUGE
10A
HAZ
C12
Combination SW
Turn
Signal
SW
LH
RH
W–B
W–B
6
5
7
G–B
G–Y
3 1M
1 1M
1
4
5
6
IG
+B
EL
ER
FLSH Relay
GND
7
LL
LR
EHW
3
2
8
7 1B
6 1B
8 1S
5 1T
4 1J
G–B
G–Y
G–B
G–Y
G–O
F 7
Front Turn
Signal Light LH
F 5
Front Side Turn
Signal Light LH
F 8
Front Turn
Signal Light RH
F 6
Front Side Turn
Signal Light RH
R 7
Rear Combination Light LH
R 8
Rear Combination Light RH
Turn
Turn
W–B
W–B
W–B
W–B
W–B
W–B
W–B
W–B
W–B
ED
EA
BH
IG
C 6
Center Cluster SW
Hazard SW
J 8
Junction
Connector
A
A
W–B
G–Y
G–Y
1 IH1
G–Y
2
R15
Remote Control
Mirror RH
Turn
1
W–B
14 IH1


W–B
W–B
2 1M
14 1F
9 1F
10 1N
2 1O
P–B
G–Y
W–B
W–B
A
D
G–Y
D
A
J 2
Junction
Connector
A
D
P–B
G–Y
P–B
1 IA1
P–B
5
4
2
Turn LH
Turn RH
Turn
R14
Remote Control
Mirror LH
C10
Combination Meter
1
3
W–B
W–B
W–B
16 IA1
A
W–B
A
J 1
Junction
Connector
IF
IE

Turn Signal and Hazard Warning Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	30	F7	28	R7	33
C10	30	F8	28	R8	33
C12	30	J1	31	R14	33
F5	28	J2	31	R15	33
F6	28	J8	31		

: Junction Block and Wire Harness Connector

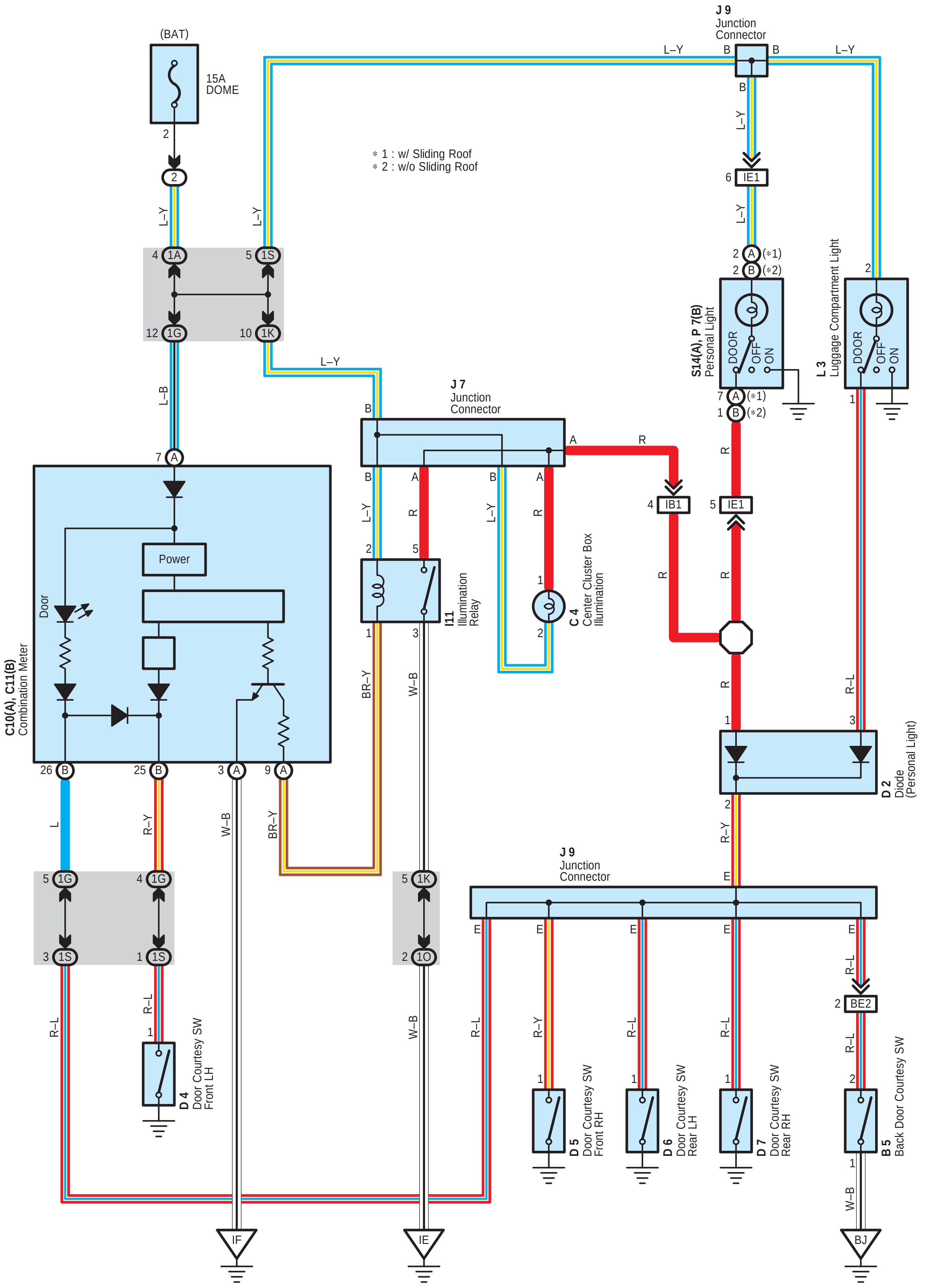
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1M		
1N		
1O		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
1T		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IH1	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Fender Apron RH
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
IG	36	Right Kick Panel
BH	38	Left Quarter Pillar


(BAT)
15A DOME
J 9 Junction Connector
∗ 1 : w/ Sliding Roof
∗ 2 : w/o Sliding Roof
S14(A), P 7(B) Personal Light
DOOR
OFF
ON
L 3 Luggage Compartment Light
J 7 Junction Connector
C10(A), C11(B) Combination Meter
Door
Power
I11 Illumination Relay
C 4 Center Cluster Box Illumination
D 2 Diode (Personal Light)
D 4 Door Courtesy SW Front LH
D 5 Door Courtesy SW Front RH
D 6 Door Courtesy SW Rear LH
D 7 Door Courtesy SW Rear RH
B 5 Back Door Courtesy SW
L–Y
L–B
R
R–Y
R–L
BR–Y
W–B
L
IE1
IB1
BE2
IF
IE
BJ

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B5	32	D4	32	J7	31
C4	30	D5	32	J9	32
C10 A	30	D6	32	L3	32
C11 B	30	D7	32	P7 B	33
D2	30	I11	31	S14 A	33

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

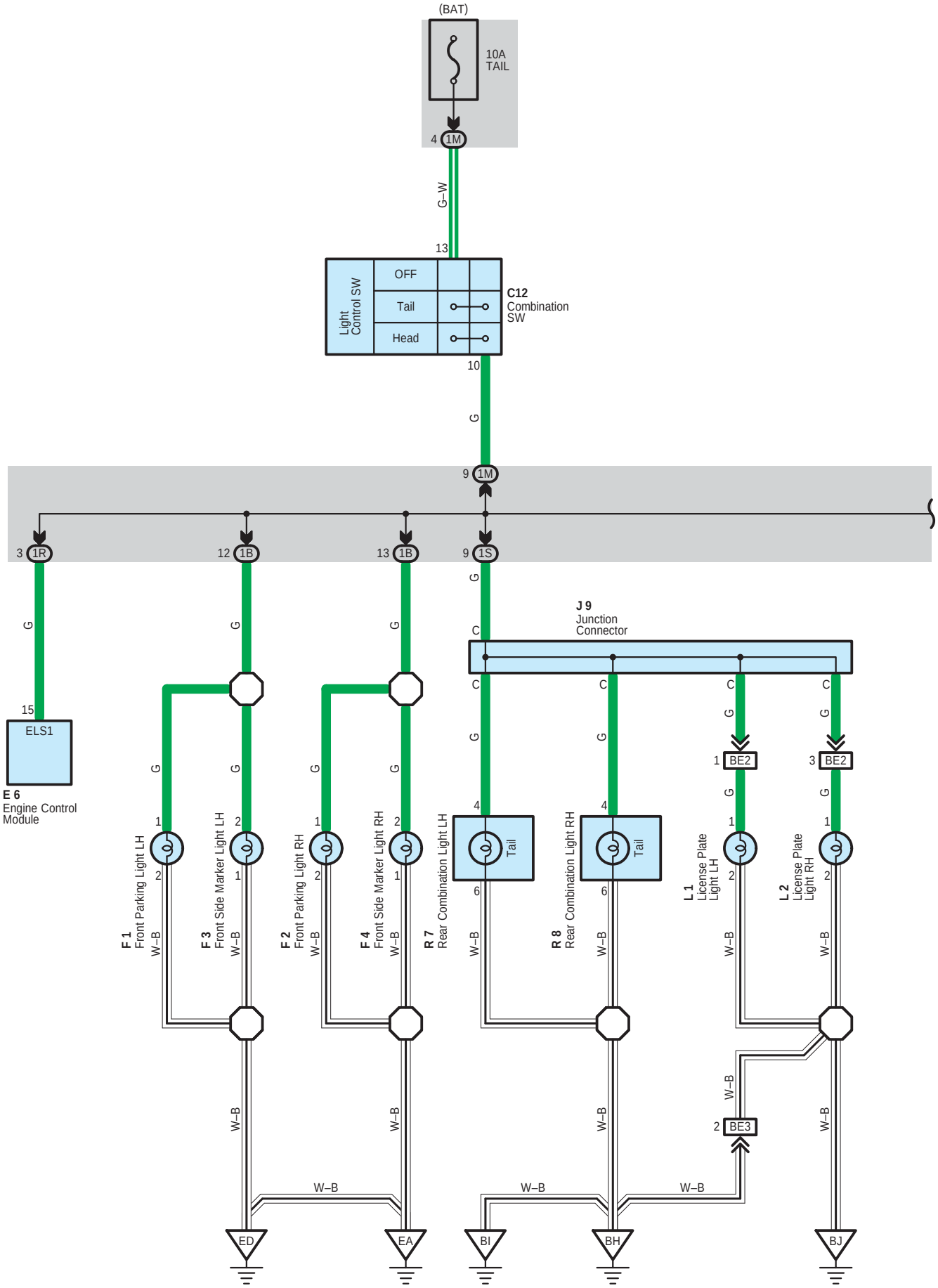
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
1O		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

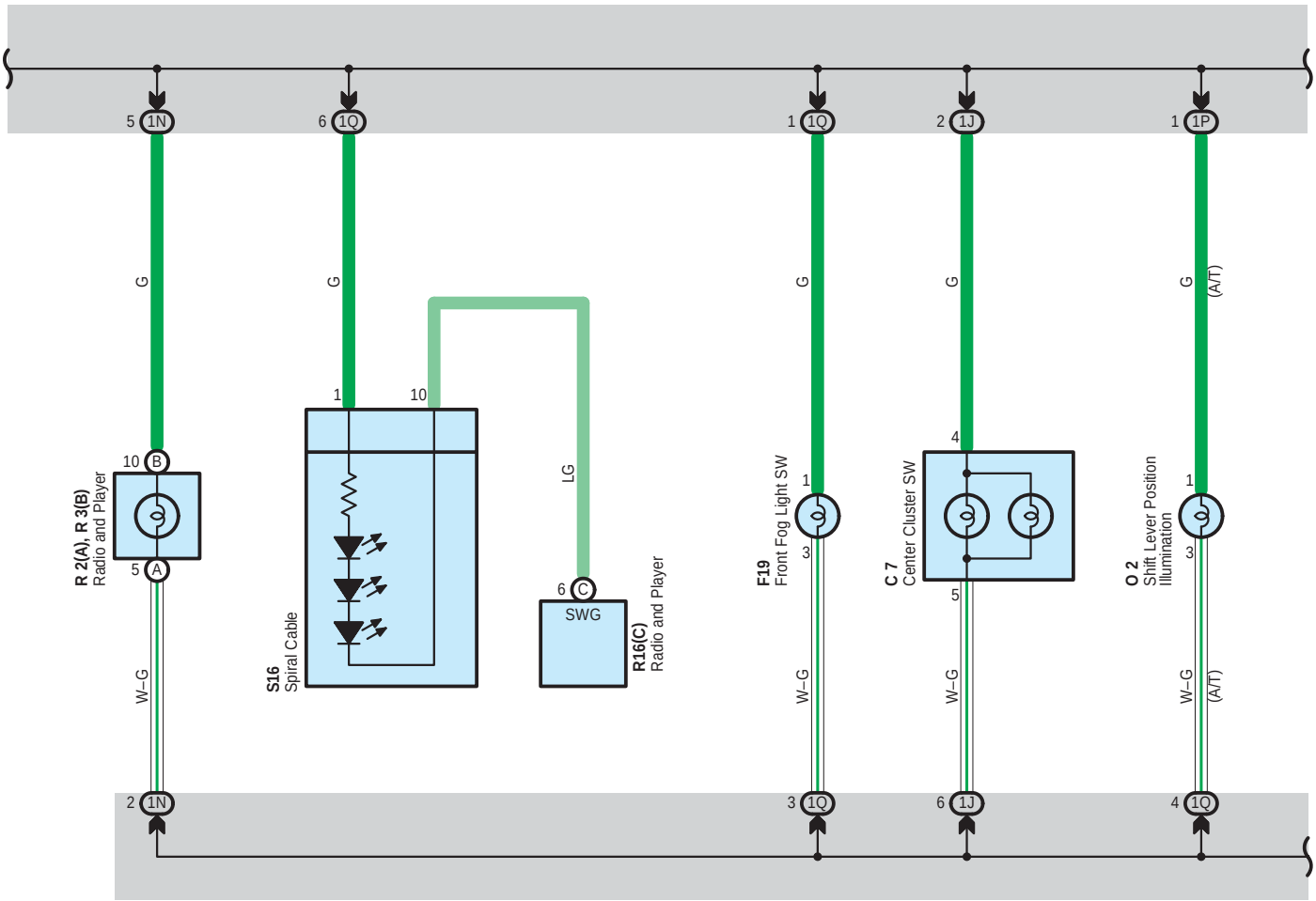
: Connector Joining Wire Harness and Wire Harness

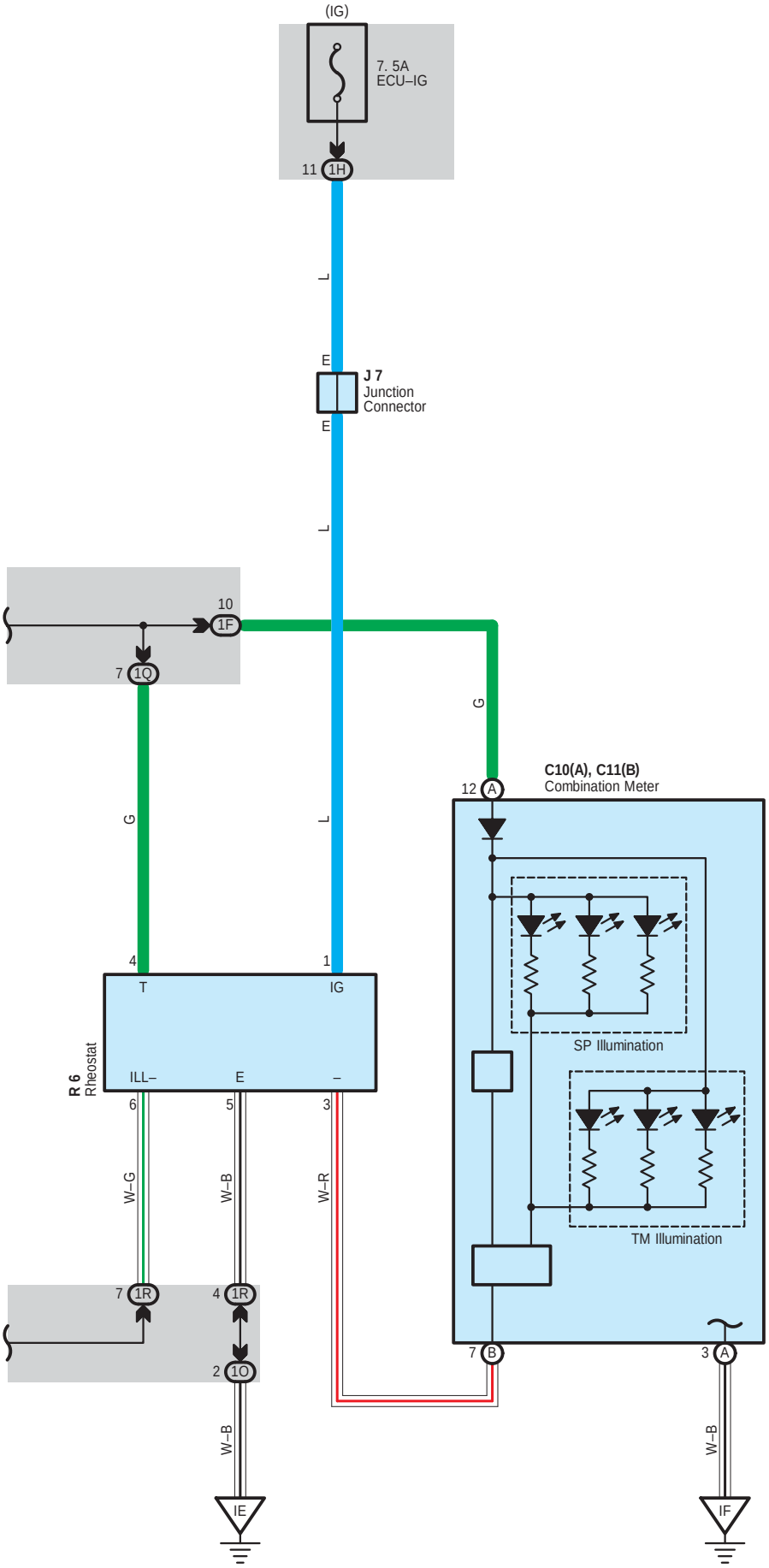
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IE1	37	Roof Wire and Floor Wire (Upper Side of the Cowl Side Panel LH)
BE2	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)

: Ground Points

Code	See Page	Ground Points Location
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
BJ	38	Back Door Panel LH


(BAT)
10A
TAIL
4 1M
G–W
13
Light Control SW
OFF
Tail
Head
C12
Combination SW
10
G
9 1M
3 1R
12 1B
13 1B
9 1S
G
15
ELS1
E 6
Engine Control Module
J 9
Junction Connector
C
1 BE2
3 BE2
2 BE3
F 1
Front Parking Light LH
F 3
Front Side Marker Light LH
F 2
Front Parking Light RH
F 4
Front Side Marker Light RH
R 7
Rear Combination Light LH
R 8
Rear Combination Light RH
Tail
L 1
License Plate Light LH
L 2
License Plate Light RH
W–B
ED
EA
BI
BH
BJ


5 1N
6 1Q
1 1Q
2 1J
1 1P
G
G
G
G
G
(A/T)
10 B
5 A
R 2(A), R 3(B)
Radio and Player
W–G
1
10
S16
Spiral Cable
LG
6 C
SWG
R16(C)
Radio and Player
F19
Front Fog Light SW
1
3
W–G
C 7
Center Cluster SW
4
5
W–G
O 2
Shift Lever Position
Illumination
1
3
W–G
(A/T)
2 1N
3 1Q
6 1J
4 1Q


(IG)
7. 5A
ECU–IG
11 1H
L
E
J 7
Junction
Connector
E
L
10
1F
7 1Q
G
G
L
C10(A), C11(B)
Combination Meter
12 A
SP Illumination
TM Illumination
4
T
1
IG
R 6
Rheostat
ILL–
E
–
6
5
3
W–G
W–B
W–R
7 1R
4 1R
2 1O
7 B
3 A
W–B
W–B
IE
IF

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C7	30	F4	28	R3 B	31
C10 A	30	F19	30	R6	31
C11 B	30	J7	31	R7	33
C12	30	J9	32	R8	33
E6	30	L1	32	R16 C	31
F1	28	L2	32	S16	31
F2	28	O2	31		
F3	28	R2 A	31		

⬭ : Junction Block and Wire Harness Connector

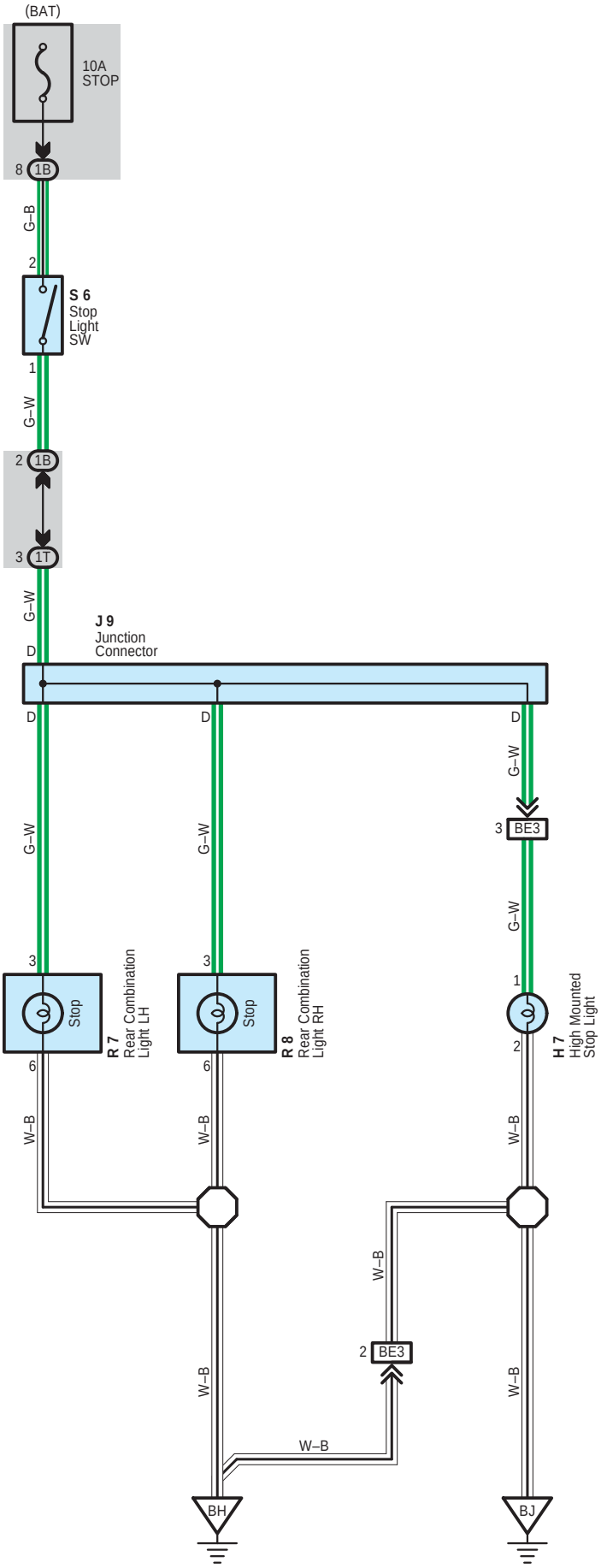
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J		
1M		
1N		
1O		
1P		
1Q		
1R		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE2	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BE3		

▽ : Ground Points

Code	See Page	Ground Points Location
EA	34	Front Fender Apron RH
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
BH	38	Left Quarter Pillar
BI	38	Right Quarter Pillar
BJ	38	Back Door Panel LH


(BAT)
10A
STOP
8
1B
G–B
2
S 6
Stop
Light
SW
1
G–W
2
1B
3
1T
G–W
J 9
Junction
Connector
D
D
D
D
G–W
G–W
3
BE3
G–W
3
3
1
Stop
Stop
R 7
Rear Combination
Light LH
R 8
Rear Combination
Light RH
H 7
High Mounted
Stop Light
6
6
2
W–B
W–B
W–B
W–B
W–B
2
BE3
W–B
BH
BJ

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H7	32	R7	33	S6	31
J9	32	R8	33		

: Junction Block and Wire Harness Connector

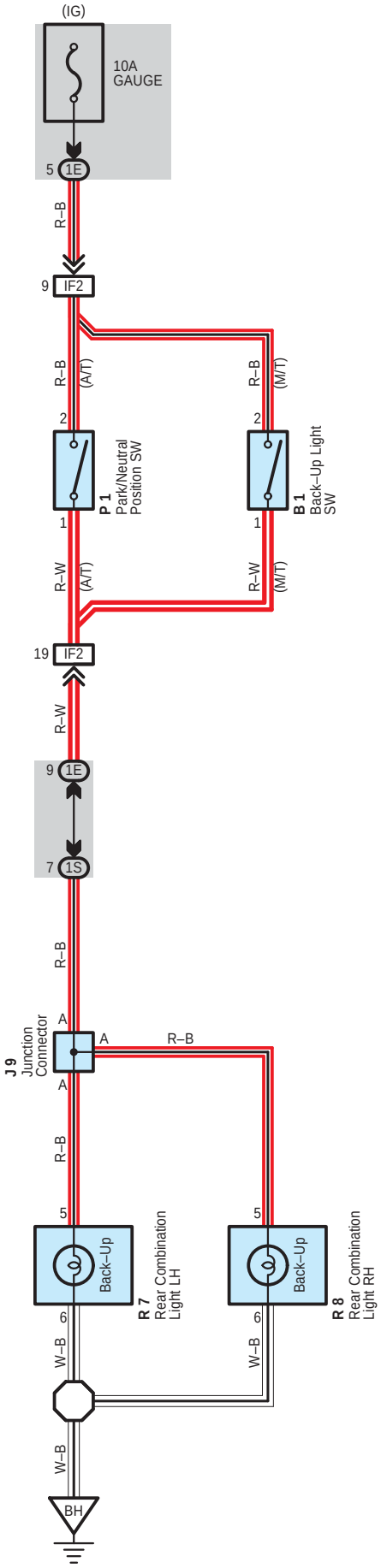
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE3	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)

: Ground Points

Code	See Page	Ground Points Location
BH	38	Left Quarter Pillar
BJ	38	Back Door Panel LH


(IG)
10A
GAUGE
5
1E
R–B
9
IF2
R–B
(A/T)
2
1
P 1
Park/Neutral
Position SW
R–B
(M/T)
2
1
B 1
Back–Up Light
SW
R–W
(A/T)
R–W
(M/T)
19
IF2
R–W
9
1E
7
1S
R–B
A
J 9
Junction
Connector
A
A
R–B
R–B
5
5
Back–Up
R 7
Rear Combination
Light LH
Back–Up
R 8
Rear Combination
Light RH
6
6
W–B
W–B
W–B
BH

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B1	28	P1	29	R8	33
J9	32	R7	33		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

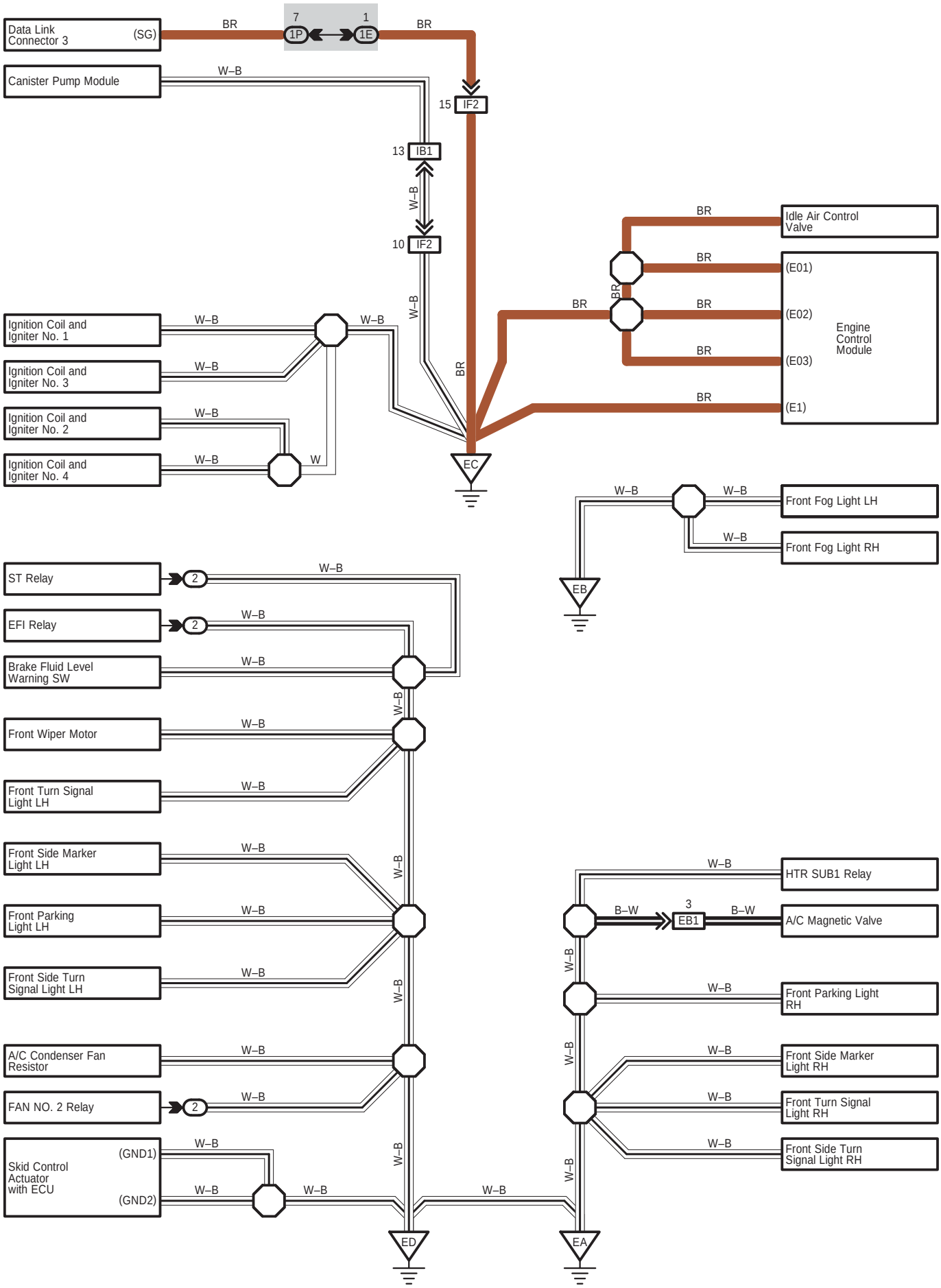
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)

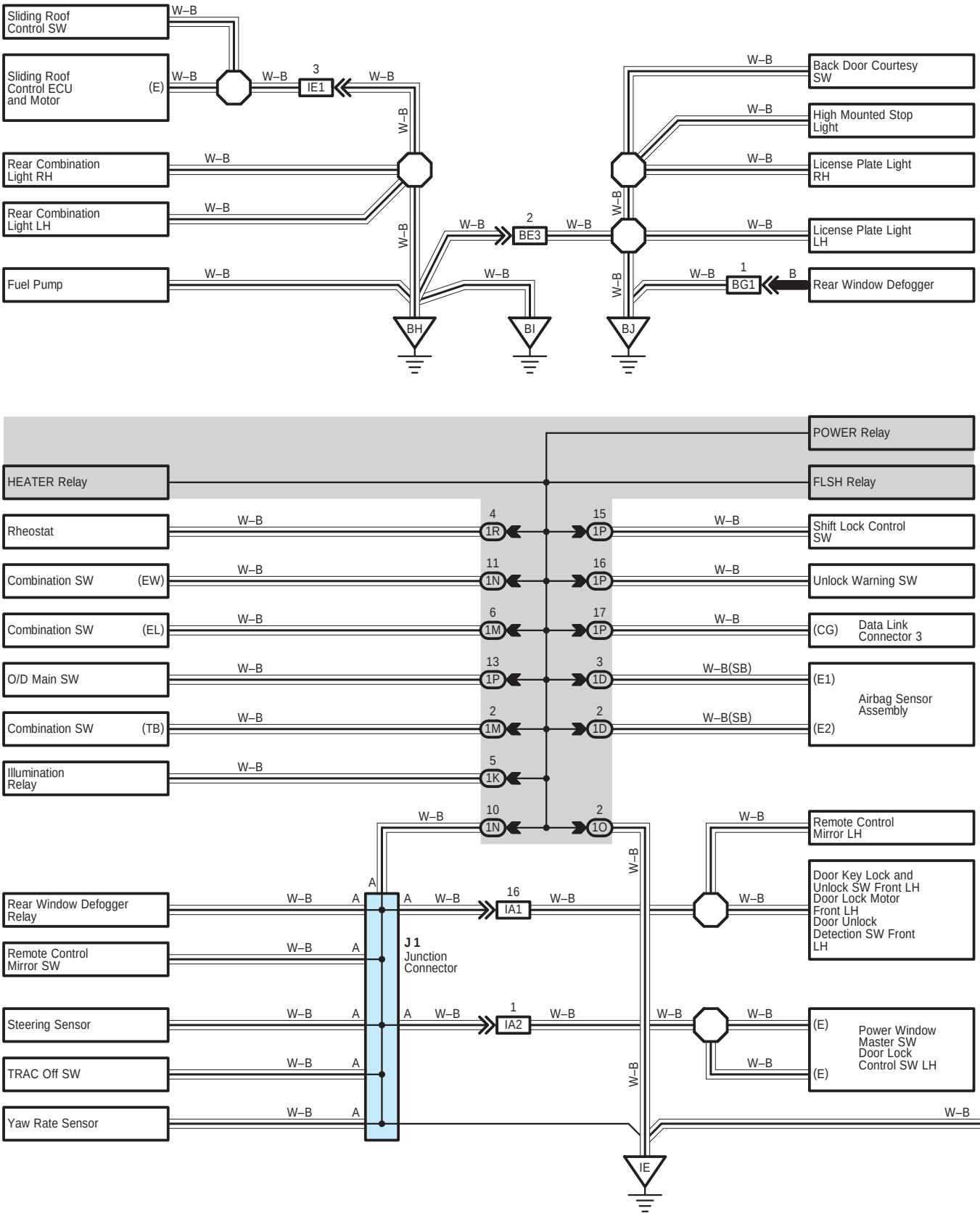
: Ground Points

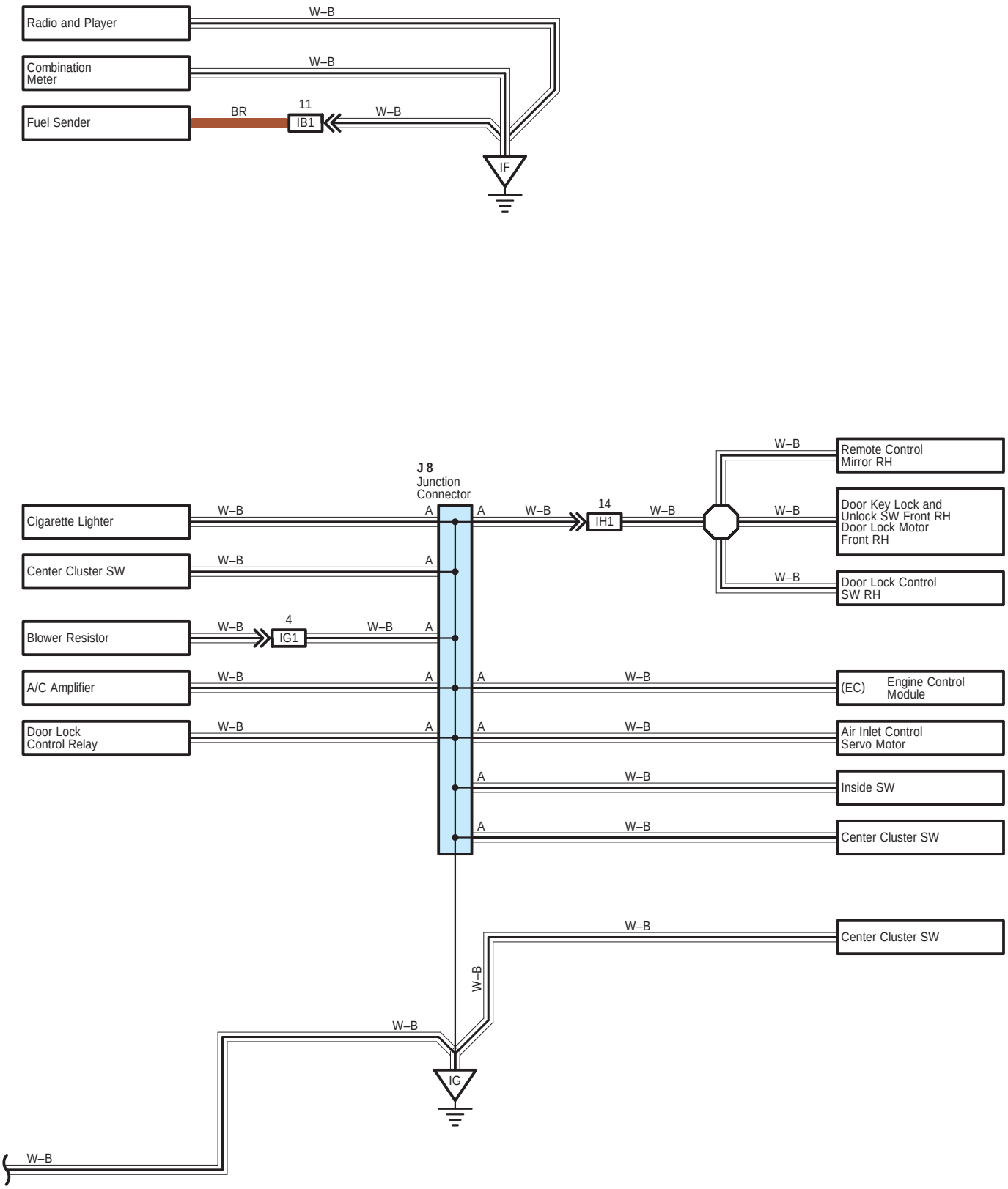
Code	See Page	Ground Points Location
BH	38	Left Quarter Pillar

I GROUND POINT



Note :
Since there is a case where the different wire color is used depending on the vehicle, a wire color code like " G(SB)" is used in this manual.
Please refer to page 40 for details.




Radio and Player
W–B
Combination Meter
W–B
Fuel Sender
BR
11
IB1
W–B
IF
J8
Junction Connector
Cigarette Lighter
W–B
A
A
W–B
14
IH1
W–B
W–B
Remote Control Mirror RH
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Lock Control SW RH
Center Cluster SW
Blower Resistor
4
IG1
A/C Amplifier
Door Lock Control Relay
(EC) Engine Control Module
Air Inlet Control Servo Motor
Inside SW
Center Cluster SW
IG

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J1	31	J8	31		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1K		
1M		
1N		
1O		
1P		
1R		

: Connector Joining Wire Harness and Wire Harness

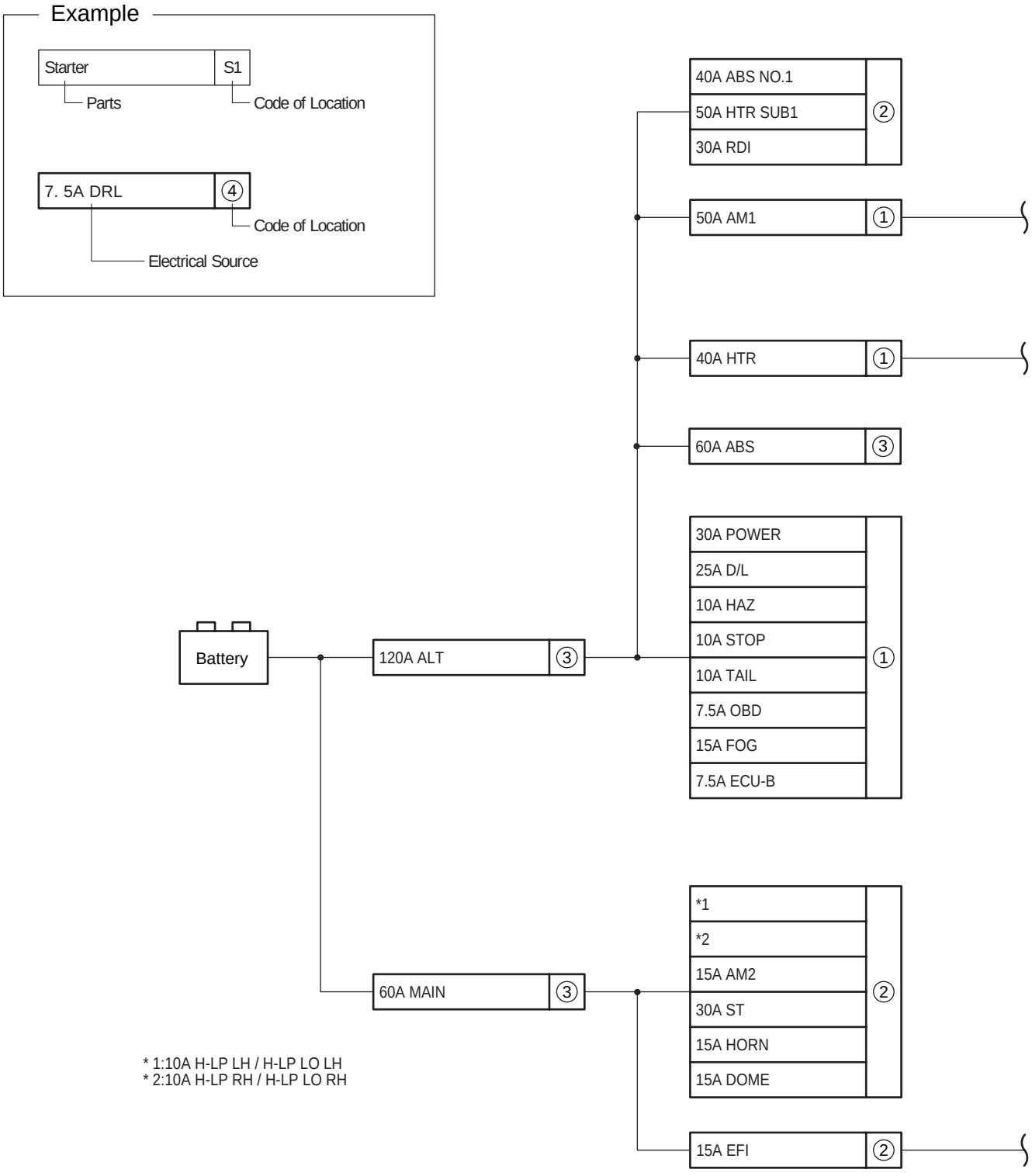
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	34	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA1	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IB1	36	Floor Wire and Instrument Panel Wire (Upper Side of the Instrument Panel J/B)
IE1	37	Roof Wire and Floor Wire (Upper Side of the Cowl Side Panel LH)
IF2	37	Engine Wire and Instrument Panel Wire (Left Side of the Blower Unit)
IG1	37	Instrument Panel Wire and A/C Sub Wire (Right Kick Panel)
IH1	37	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BE3	38	Back Door No.1 Wire and Floor Wire (Quarter Panel LH)
BG1	38	Back Door No.1 Wire and Rear Door No.1 Wire (Right Side of the Back Door Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Fender Apron RH
EB		
EC	34	Cylinder Head
ED	34	Front Fender Apron LH
IE	36	Left Kick Panel
IF	36	Instrument Panel Brace LH
IG	36	Right Kick Panel
BH	38	Left Quarter Pillar
BI	38	Right Quarter Pillar
BJ	38	Back Door Panel LH

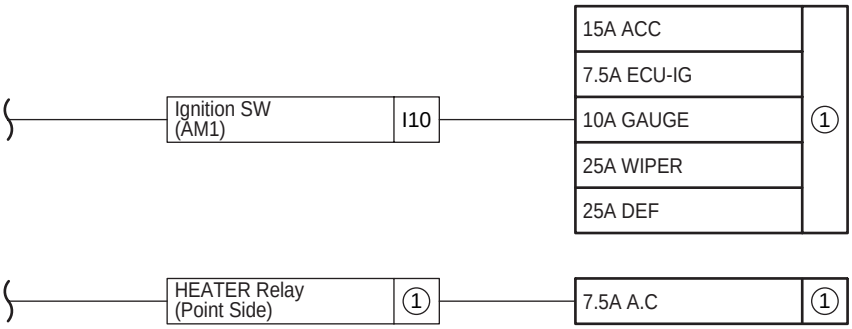
J POWER SOURCE (Current Flow Chart)

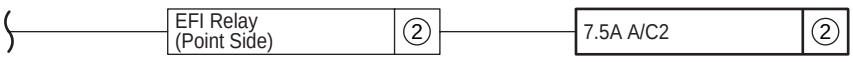
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



[LOCATION]

① : Instrument Panel J/B (See Page 24) ② : Engine Room R/B (See Page 22)





③ : Fusible Link Block (See Page 23)

Instrument Panel J/B (See Page 24)

Fuse		System	Page
7.5A	A.C	Air Conditioning	150
		PTC Heater	146
		Two Way Flow Heater	142
7.5A	ECU–B	ABS (w/ VSC), TRAC and VSC	96
		Multiplex Communication System (CAN)	104
7.5A	ECU–IG	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Air Conditioning	150
		Multiplex Communication System (CAN)	104
		PTC Heater	146
		Radiator Fan and Condenser Fan	148
		Taillight and Illumination	70
		Two Way Flow Heater	142
7.5A	OBD	Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
10A	GAUGE	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Air Conditioning	150
		Audio System	132
		Back–Up Light	76
		Charging	50
		Combination Meter	136
		Door Lock Control	86
		Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
		Key Reminder and Seat Belt Warning	120
		Light Reminder	122
		Power Window	82
		Rear Window Defogger	130
		Shift Lock	118
		Sliding Roof	114
		SRS	109
		Turn Signal and Hazard Warning Light	64
		Two Way Flow Heater	142
10A	HAZ	Turn Signal and Hazard Warning Light	64
10A	STOP	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
		Shift Lock	118
		Stop Light	74

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

Fuse		System	Page
10A	TAIL	Light Reminder	122
		Taillight and Illumination	70
15A	ACC	Audio System	132
		Cigarette Lighter	126
		Remote Control Mirror	124
15A	FOG	Front Fog Light	62
25A	DEF	Rear Window Defogger	130
25A	D/L	Door Lock Control	86
25A	WIPER	Front Wiper and Washer	78
		Rear Wiper and Washer	80
30A	POWER	Power Window	82
		Sliding Roof	114
40A	HTR	Air Conditioning	150
		PTC Heater	146
		Two Way Flow Heater	142

Engine Room R/B (See Page 22)

Fuse		System	Page
10A	H–LP LH/H–LP LO LH	Headlight	60
10A	H–LP RH/H–LP LO RH	Headlight	60
15A	AM2	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Charging	50
		Combination Meter	136
		Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
		SRS	109
		Starting and Ignition	46
15A	DOME	Audio System	132
		Combination Meter	136
		Interior Light	68
		Key Reminder and Seat Belt Warning	120
		Light Reminder	122
15A	EFI	Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
15A	HORN	Horn	128
30A	RDI	Radiator Fan and Condenser Fan	148
30A	ST	Starting and Ignition	46
40A	ABS NO.1	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
50A	HTR SUB1	PTC Heater	146

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

Fusible Link Block (See Page 23)

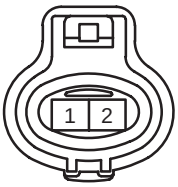
Fuse		System	Page
60A	ABS	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
60A	MAIN	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Charging	50
		Combination Meter	136
		Electronically Controlled Transmission and A/T Indicator	90
		Engine Control	52
		SRS	109
		Starting and Ignition	46
120A	ALT	ABS (w/ VSC), TRAC and VSC	96
		ABS (w/o VSC)	106
		Charging	50

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

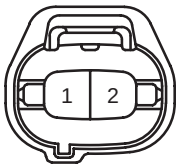
K CONNECTOR LIST

*1 : w/o Side Airbag

A 1
Black



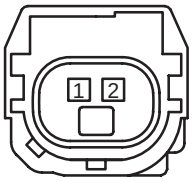
A 2
Gray



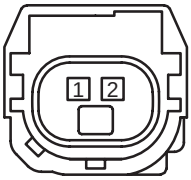
A 3

A 4
Black

A 5
Yellow

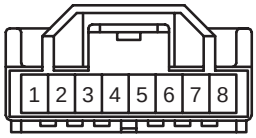


A 6
Yellow

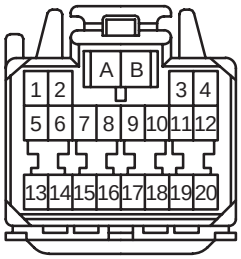


A 7

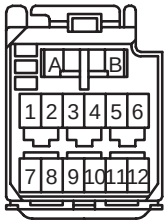
A 8
Black



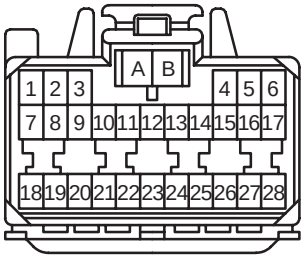
A 9
(w/ Side Airbag) Yellow



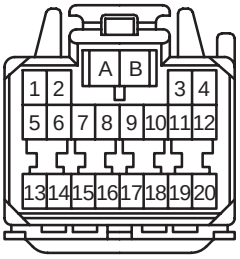
A 9
(*1) Yellow



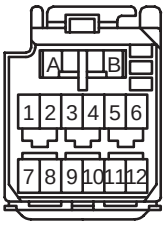
A10
Yellow



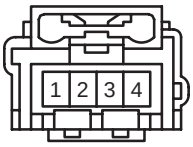
A11
(w/ Side Airbag) Yellow



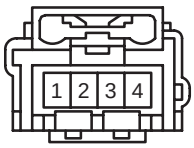
A11
(*1) Yellow



A12
Yellow



A13
Yellow

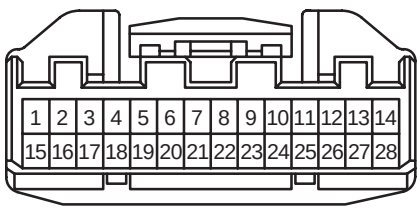


A14

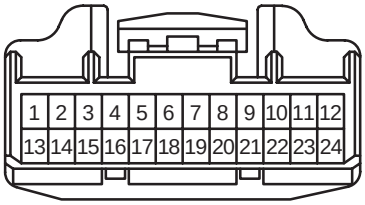
A15
Black

A16
Black

A17



A18

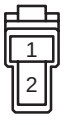


A19
Black

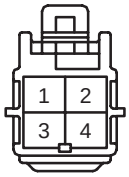
B 1
Gray

B 2
Gray

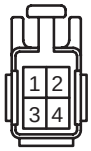
B 3
Black



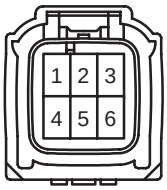
B 4
Black



B 5



B 6

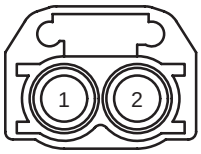


B 7

C 1
Black

C 2
Black

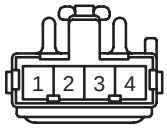
C 3
Black



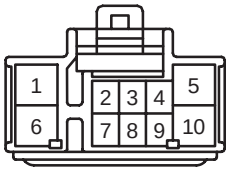
C 4

C 5

C 6
Gray



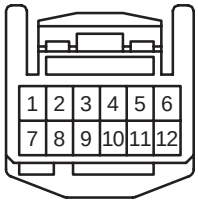
C 7



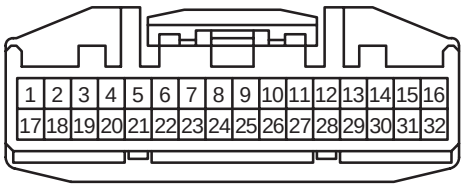
C 8

C 9

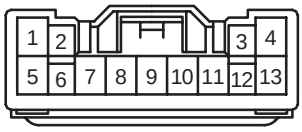
C10



C11



C12



C14
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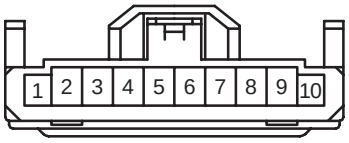
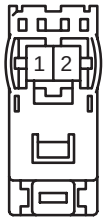
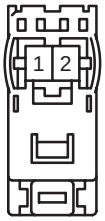


C15
Black

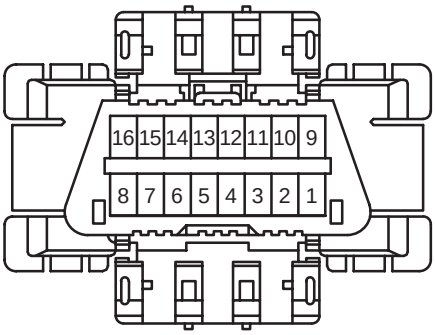


C16
Black

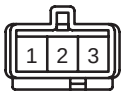


C17
Black

D 1

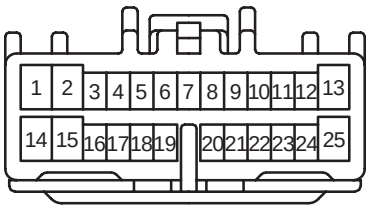


D 2



K CONNECTOR LIST

D 3



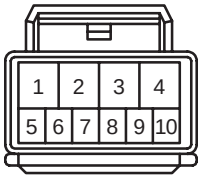
D 4

D 5

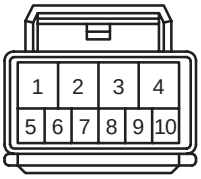
D 6

D 7

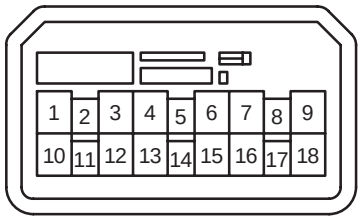
D 8



D 9

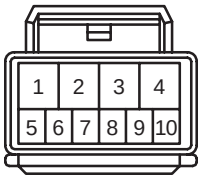


D10

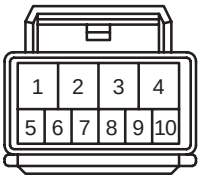


D11

D12



D13



E 1
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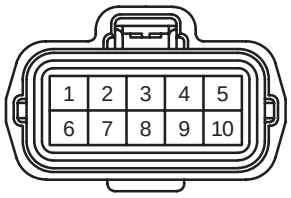
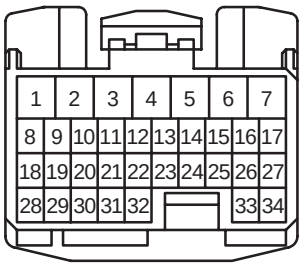
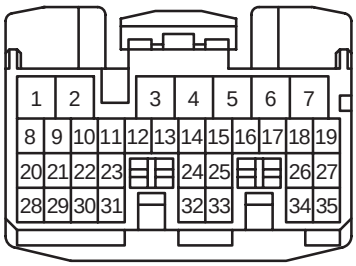


E 2
Gray

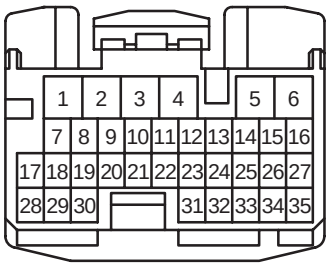
E 3



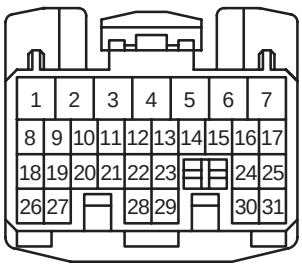
E 4



E 5



E 6



F 1
Brown

F 2
Brown

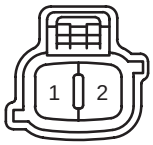
F 3

F 4

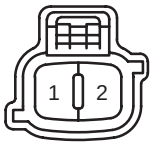
F 5
Gray

F 6
Gray

F 7
Gray



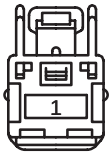
F 8
Gray



F 9
Black

F10
Black
(See Page 23)

F11
Black



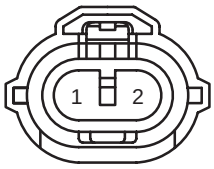
F12

F13
Gray

F14
Gray

F15
Dark Gray

F16
Black



F17
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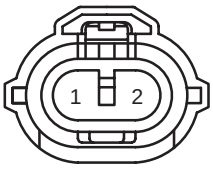
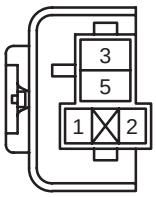


F18



F19
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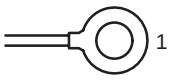
G 1



G 2
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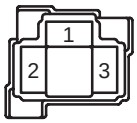
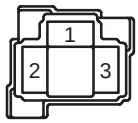
H 1



H 2



H 3
Gray

H 4
Black

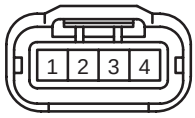
H 5
Black

H 6
Gray

H 7

I 1
Black

I 2
Black



I 3
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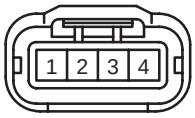

I 4
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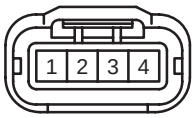

I 5
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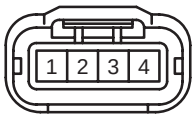
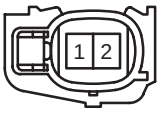


I 6
Black



I 7
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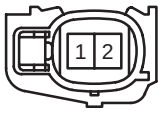

I 8
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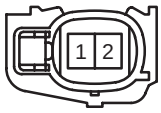

I 9
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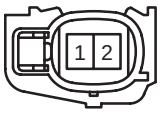
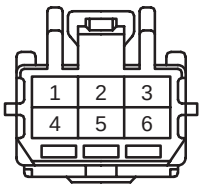
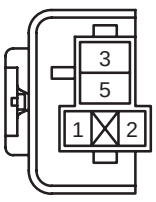


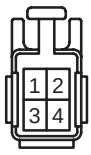
I10



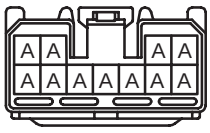
I11



I12

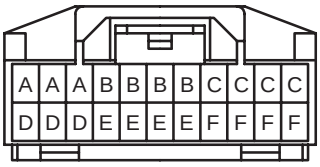


J 1



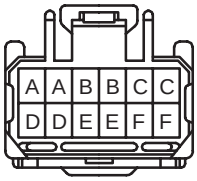
K CONNECTOR LIST

J 2

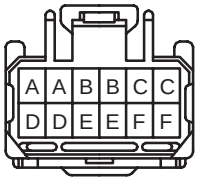


J 3

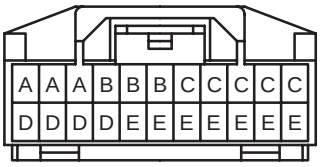
J 4



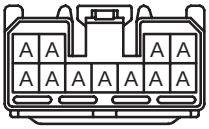
J 5



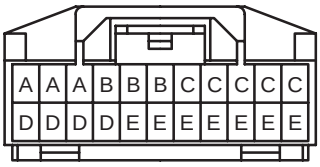
J 7



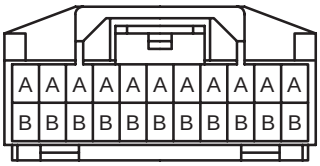
J 8



J 9



J10



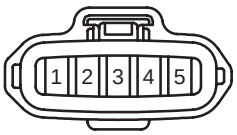
K 1
Gray

L 1
Gray

L 2
Gray

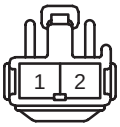
L 3

M 1
Black



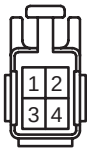
N 1
Gray

N 2

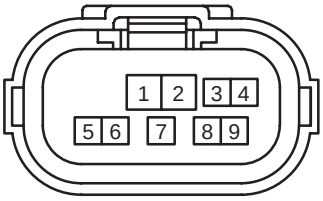


O 1
Gray

O 2
Blue



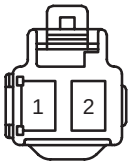
P 1
Gray



P 2
Black

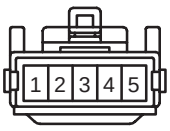
P 4

P 6

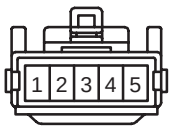


P 7

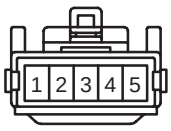
P 8



P 9



P10



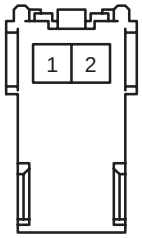
P11
Black

P12
Black

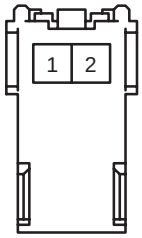
P13
Black

P14
Black

P15
Yellow



P16
Yellow



P17
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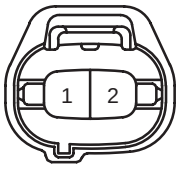
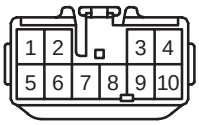


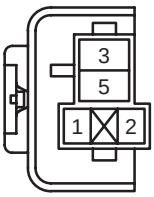
R 1
Gray

R 2

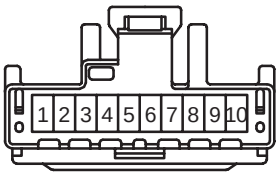
R 3
Blue



R 4



R 5



R 6
Blue

R 7

R 8

R 9
Blue

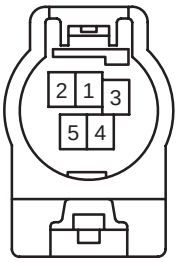
R10
Blue

R11
Black

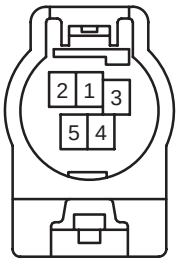
R12
Black

R13

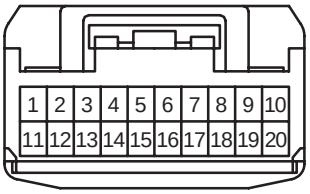
R14



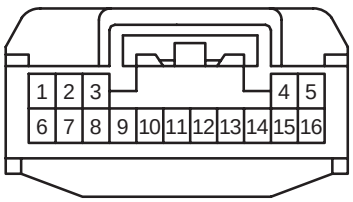
R15



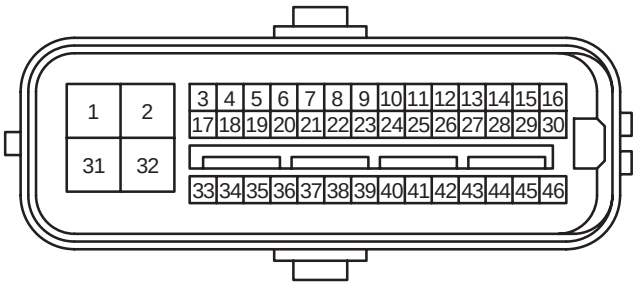
R16



R17

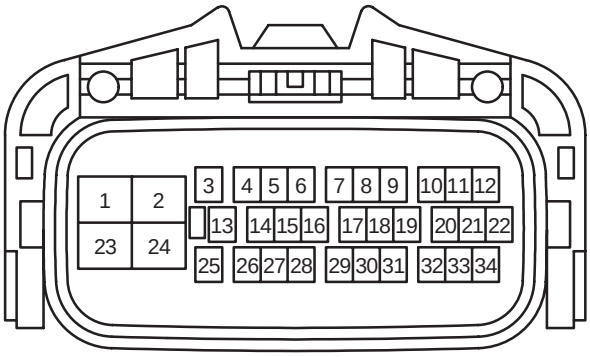


S 1
(w/ VSC) Black

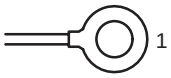


K CONNECTOR LIST

S 1
(w/o VSC) Black

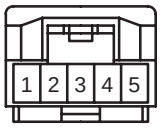


S 2

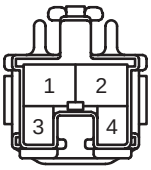


S 3
Black

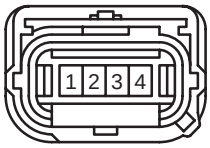
S 4



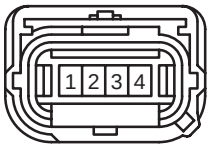
S 6
Black



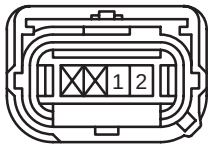
S 7
Yellow



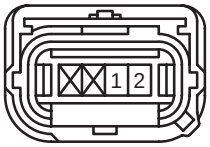
S 8
Yellow



S 9
Yellow



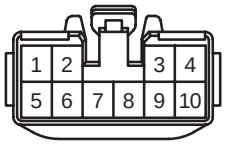
S10
Yellow



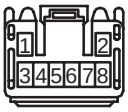
S11
Yellow

S12
Yellow

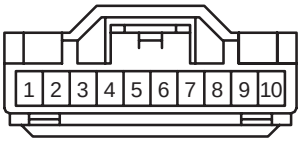
S13



S14

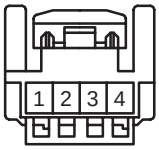


S15



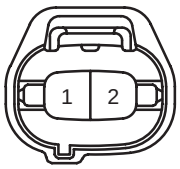
S16

S17
Gray



T 1
Black

T 2
Black



T 4

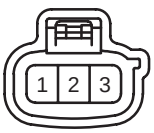
T 5

T 6
Black

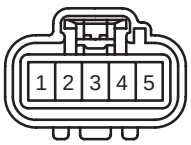
U 1

V 5
Black

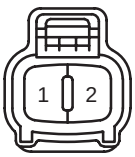
W 1
Black



Y 1
Black

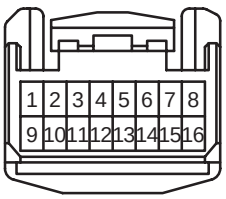


Z 3
Gray



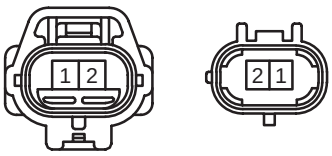
Z 6

Z 7

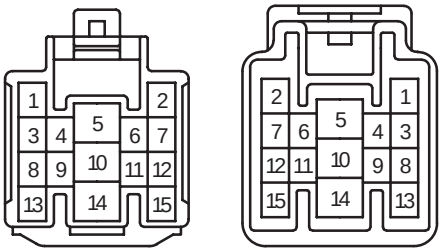


K CONNECTOR LIST

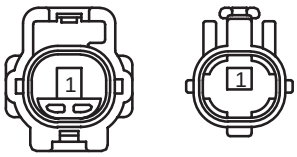
EA1 Gray



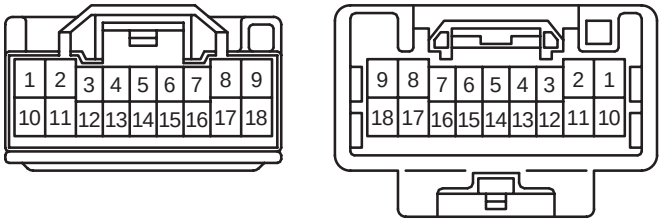
EB1



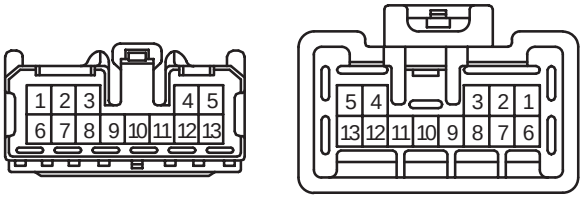
EC1 Gray



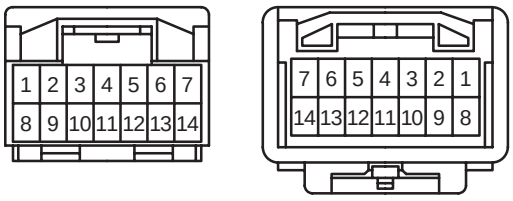
IA1



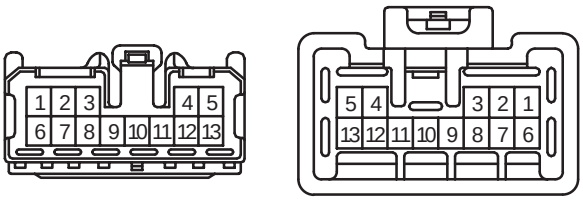
IA2



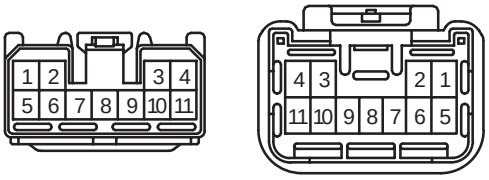
IB1 Gray



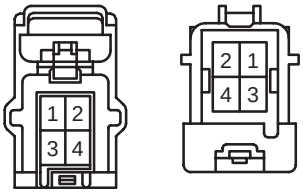
IB2



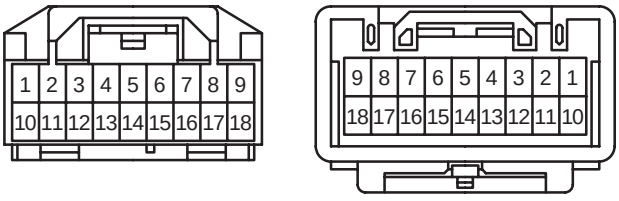
IC1



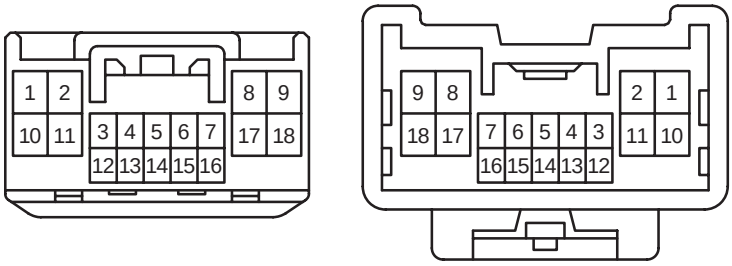
ID1 Yellow



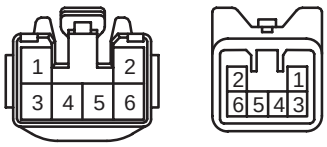
ID2



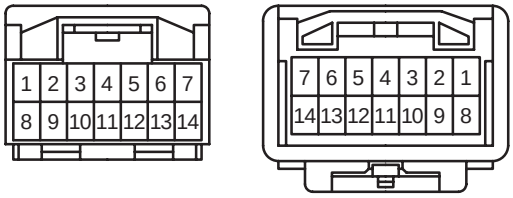
ID3 Blue



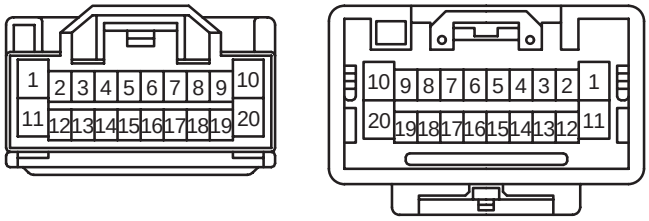
IE1



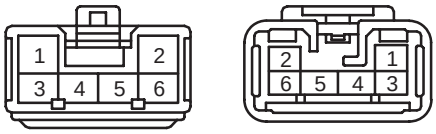
IF1



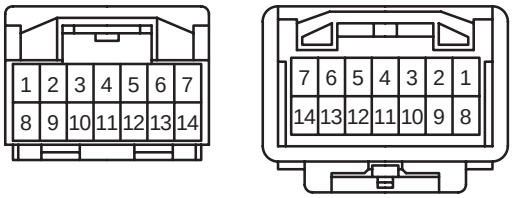
IF2



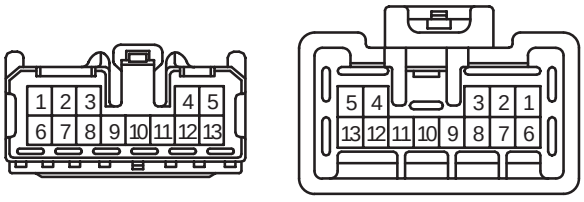
IG1



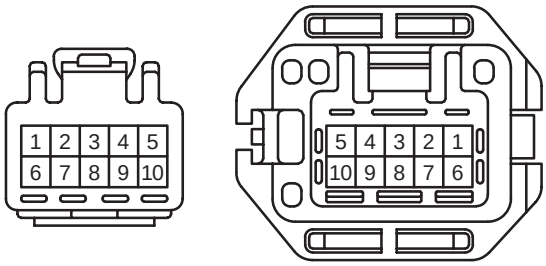
IH1



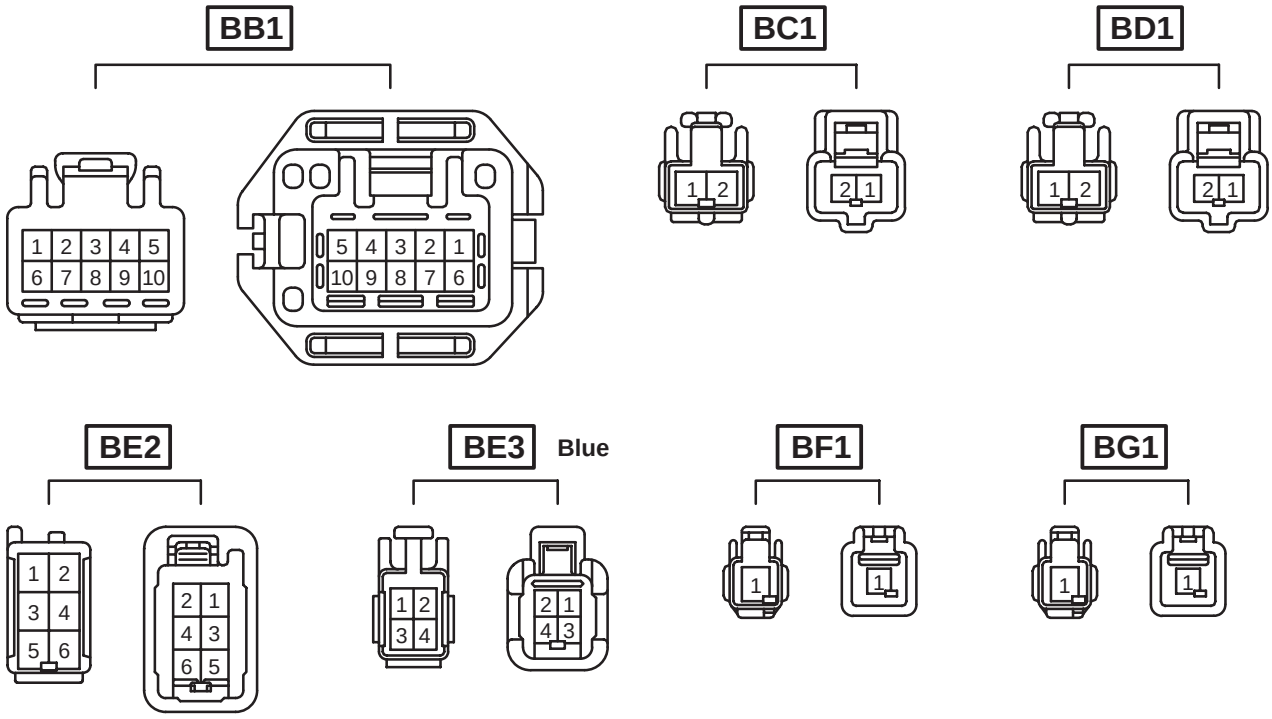
IH2



BA1



K CONNECTOR LIST



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Condenser Fan Resistor	90980–10928
A 2	A/C Magnetic Valve	90980–11156
A 3	ABS Speed Sensor Front LH	90980–11002
A 4	ABS Speed Sensor Front RH	
A 5	Airbag Sensor Front LH	90980–12401
A 6	Airbag Sensor Front RH	
A 7	A/C Thermistor	90980–11918
A 8	Air Inlet Control Servo Motor	90980–11989
A 9	Airbag Sensor Assembly (w/ Side Airbag)	82824–50160
	Airbag Sensor Assembly (w/o Side Airbag)	90980–11869
A10	Airbag Sensor Assembly	90980–11872
A11	Airbag Sensor Assembly (w/ Side Airbag)	82824–50150
	Airbag Sensor Assembly (w/o Side Airbag)	90980–11867
A12	Airbag Squib (Front Passenger Airbag Assembly)	90980–12160
A13	Airbag Squib (Steering Wheel Pad)	
A14	Antenna Amplifier	90980–10870
A15	ABS Speed Sensor Rear LH	90980–11900
A16	ABS Speed Sensor Rear RH	
A17	A/C Amplifier	90980–12410
A18	A/C Amplifier	90980–12200
A19	A/C Pressure Sensor	90980–10845
B 1	Back–Up Light SW	90980–11250
B 2	Brake Fluid Level Warning SW	90980–11207
B 3	Blower Motor	90980–10214
B 4	Blower Resistor	90980–11136
B 5	Back Door Courtesy SW	90980–10795
	Back Door Lock Motor	
B 6	Buckle SW LH	90980–12257
B 7	Buckle SW RH	90980–11020
C 1	Camshaft Position Sensor	90980–10947
C 2	Camshaft Timing Oil Control Valve	90980–11162
C 3	Crankshaft Position Sensor	90980–12028
C 4	Center Cluster Box Illumination	90980–10860
C 5	Center Cluster SW	90980–10908
C 6	Center Cluster SW	90980–11013
C 7	Center Cluster SW	90980–10993
C 8	Cigarette Lighter	90980–10760
C 9	Clutch Start SW	90980–10825
C10	Combination Meter	90980–12183
C11	Combination Meter	90980–12153
C12	Combination SW	90980–12007
C14	Combination SW	90980–12008
C15	Curtain Shield Airbag Squib LH	90980–12219
C16	Curtain Shield Airbag Squib RH	
C17	Canister Pump Module	90980–12380
D 1	Data Link Connector 3	90980–11978

Code	Part Name	Part Number
D 2	Diode (Personal Light)	90980–11071
D 3	Door Lock Control Relay	90980–11877
D 4	Door Courtesy SW Front LH	90980–10871
D 5	Door Courtesy SW Front RH	
D 6	Door Courtesy SW Rear LH	
D 7	Door Courtesy SW Rear RH	
D 8	Door Key Lock and Unlock SW Front LH	90980–12226
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
D 9	Door Key Lock and Unlock SW Front RH	
	Door Lock Motor Front RH	
D10	Door Lock Control SW LH	90980–12122
	Power Window Master SW	
D11	Door Lock Control SW RH	90980–10797
D12	Door Lock Motor Rear LH	90980–12226
D13	Door Lock Motor Rear RH	
E 1	Electronically Controlled Transmission Solenoid	90980–11658
E 2	Engine Coolant Temp. Sensor	90980–10735
E 3	Engine Control Module	90980–12144
E 4	Engine Control Module	90980–12145
E 5	Engine Control Module	90980–12146
E 6	Engine Control Module	90980–12142
F 1	Front Parking Light LH	90080–98298
F 2	Front Parking Light RH	
F 3	Front Side Marker Light LH	90980–11162
F 4	Front Side Marker Light RH	
F 5	Front Side Turn Signal Light LH	
F 6	Front Side Turn Signal Light RH	
F 7	Front Turn Signal Light LH	90980–11019
F 8	Front Turn Signal Light RH	
F 9	Front Wiper Motor	90980–11599
F10	Fusible Link Block	–
F11	Fusible Link Block	90980–11775
F12	Foot Mode SW	90980–10908
	Max Cool SW	
	Max Hot SW	
F13	Front Speaker LH	90980–10935
F14	Front Speaker RH	
F15	Fuel Pump	90980–11077
	Fuel Sender	
F16	Front Fog Light LH	82824–60460
F17	Front Fog Light RH	
F18	Front Fog Light Relay	82660–52030
F19	Front Fog Light SW	90980–10601
G 1	Generator	90980–09373

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

Code	Part Name	Part Number
G 2	Generator	90980–11349
H 1	Headlight LH	90980–11314
H 2	Headlight RH	
H 3	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980–10869
H 4	Horn (High)	90980–10619
H 5	Horn (Low)	
H 6	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–11028
H 7	High Mounted Stop Light	90980–11148
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
I11	Illumination Relay	82660–52030
I12	Inside SW	90980–10795
J 1	Junction Connector	90980–11539
J 2	Junction Connector	90980–11915
J 3	Junction Connector	90980–10803
J 4	Junction Connector	90980–11661
J 5	Junction Connector	
J 7	Junction Connector	90980–11915
J 8	Junction Connector	90980–11539
J 9	Junction Connector	90980–11915
J10	Junction Connector	
K 1	Knock Sensor (Bank 1)	90980–11166
L 1	License Plate Light LH	90980–11148
L 2	License Plate Light RH	
L 3	Luggage Compartment Light	90980–10935
M 1	Mass Air Flow Meter	90980–11317
N 1	Noise Filter (Ignition)	90980–10843
N 2	Noise Filter (Rear Window Defogger)	90980–10916
O 1	Oil Pressure SW	90980–11363
O 2	O/D Main SW	90980–10795
	Shift Lever Position Illumination	
P 1	Park/Neutral Position SW	90980–12362
P 2	Power Steering Oil Pressure Sensor	90980–10845
P 4	Parking Brake SW	90980–10871
P 6	PTC Heater	90980–10903
P 7	Personal Light	90980–11148

Code	Part Name	Part Number
P 8	Power Window Control SW Front RH	90980–10789
P 9	Power Window Control SW Rear LH	
P10	Power Window Control SW Rear RH	
P11	Power Window Motor Front LH	90980–10797
P12	Power Window Motor Front RH	
P13	Power Window Motor Rear LH	
P14	Power Window Motor Rear RH	
P15	Pretensioner LH	90980–12253
P16	Pretensioner RH	
P17	VSV (Purge)	90980–11156
R 1	Radiator Fan Motor	90980–10928
R 2	Radio and Player	90980–10996
R 3	Radio and Player	90980–10997
R 4	Rear Window Defogger Relay	82660–52030
R 5	Remote Control Mirror SW	90980–11657
R 6	Rheostat	90980–10797
R 7	Rear Combination Light LH	
R 8	Rear Combination Light RH	
R 9	Rear Speaker LH	90980–10935
R10	Rear Speaker RH	
R11	Rear Window Defogger	90980–11853
R12	Rear Window Defogger	
R13	Rear Wiper Motor	90980–10860
R14	Remote Control Mirror LH	82824–48090
R15	Remote Control Mirror RH	
R16	Radio and Player	90980–12460
R17	Radio and Player	90980–12423
S 1	Skid Control Actuator with ECU (w/ VSC)	90980–12297
	Skid Control Actuator with ECU (w/o VSC)	90980–12020
S 2	Starter	90980–09506
S 3	Starter	90980–11400
S 4	Shift Lock Control SW	90980–11909
S 6	Stop Light SW	90980–11118
S 7	Side Airbag Sensor Front LH	90980–12225
S 8	Side Airbag Sensor Front RH	
S 9	Side Airbag Sensor Rear LH	90980–12352
S10	Side Airbag Sensor Rear RH	
S11	Side Airbag Squib LH	90980–11864
S12	Side Airbag Squib RH	
S13	Sliding Roof Control ECU and Motor	90980–10801
S14	Personal Light	90980–11533
	Sliding Roof Control SW	
S15	Steering Sensor	90980–12162
S16	Spiral Cable	90980–12183

L PART NUMBER OF CONNECTORS

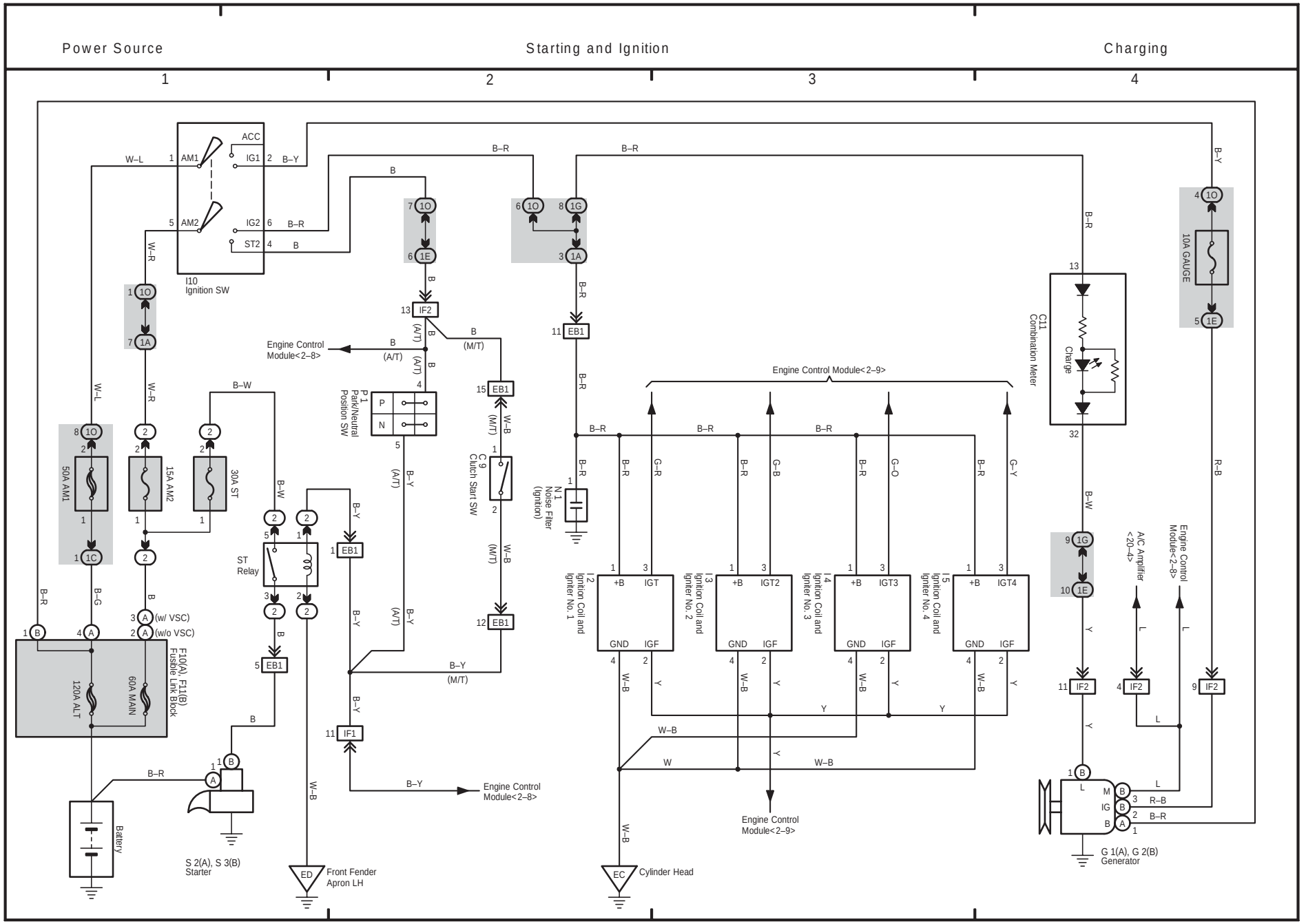
Code	Part Name	Part Number
S17	Stereo Jack Adapter	82824–21030
T 1	Throttle Position Sensor	90980–11261
T 2	Turbine Speed Sensor	90980–11156
T 4	Tweeter LH	90980–11159
T 5	Tweeter RH	
T 6	TRAC Off SW	90980–10631
U 1	Unlock Warning SW	90980–10860
V 5	VSC Warning Buzzer	90980–10906
W 1	Washer Motor	90980–10981
Y 1	Yaw Rate Sensor	90980–11904
Z 3	Option Connector (TVIP Siren)	90980–11051
Z 6	Option Connector (TVIP ECU)	90980–10871
Z 7	Option Connector (IPOD Unit)	90980–12553

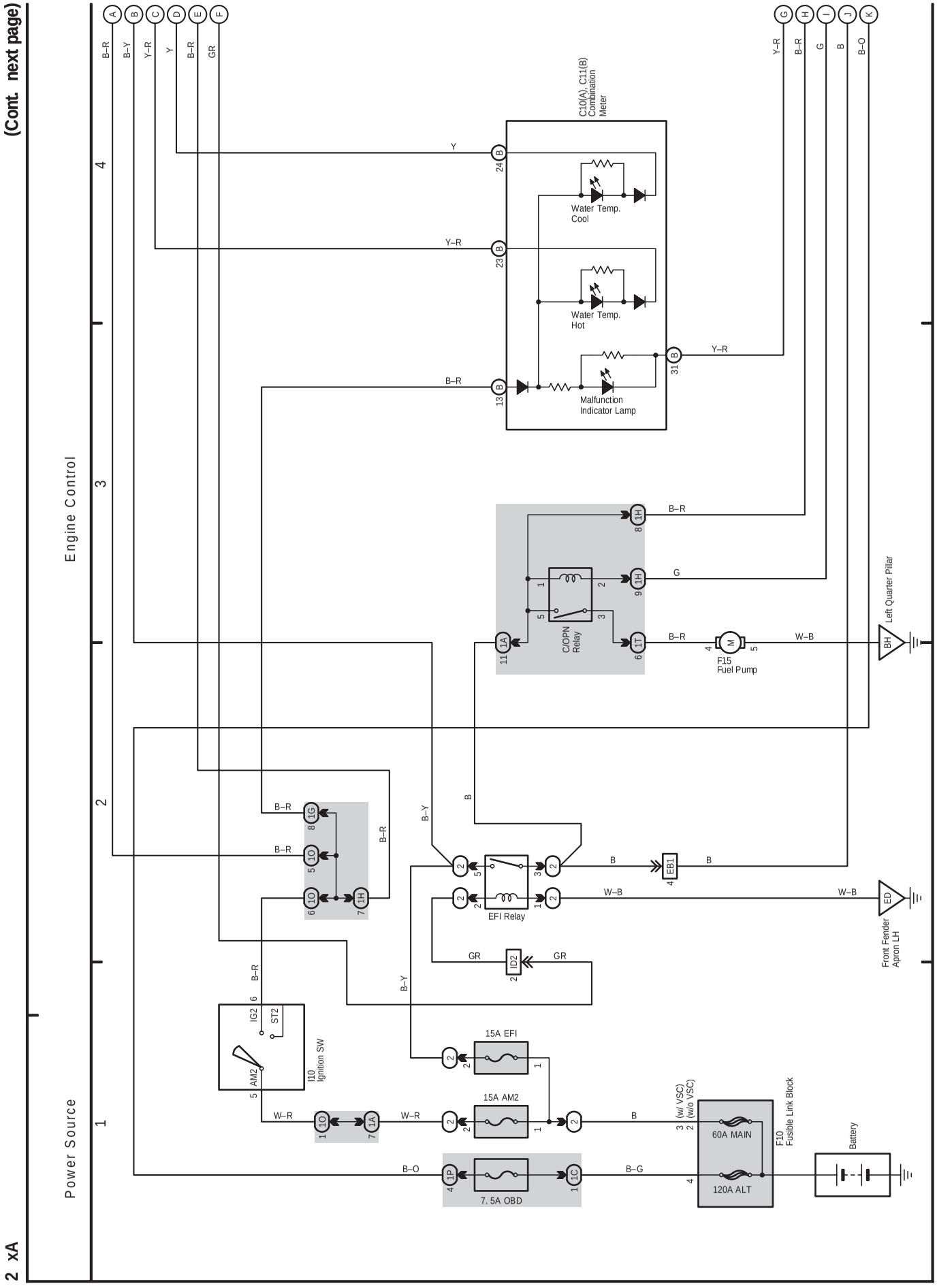
Code	Part Name	Part Number

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

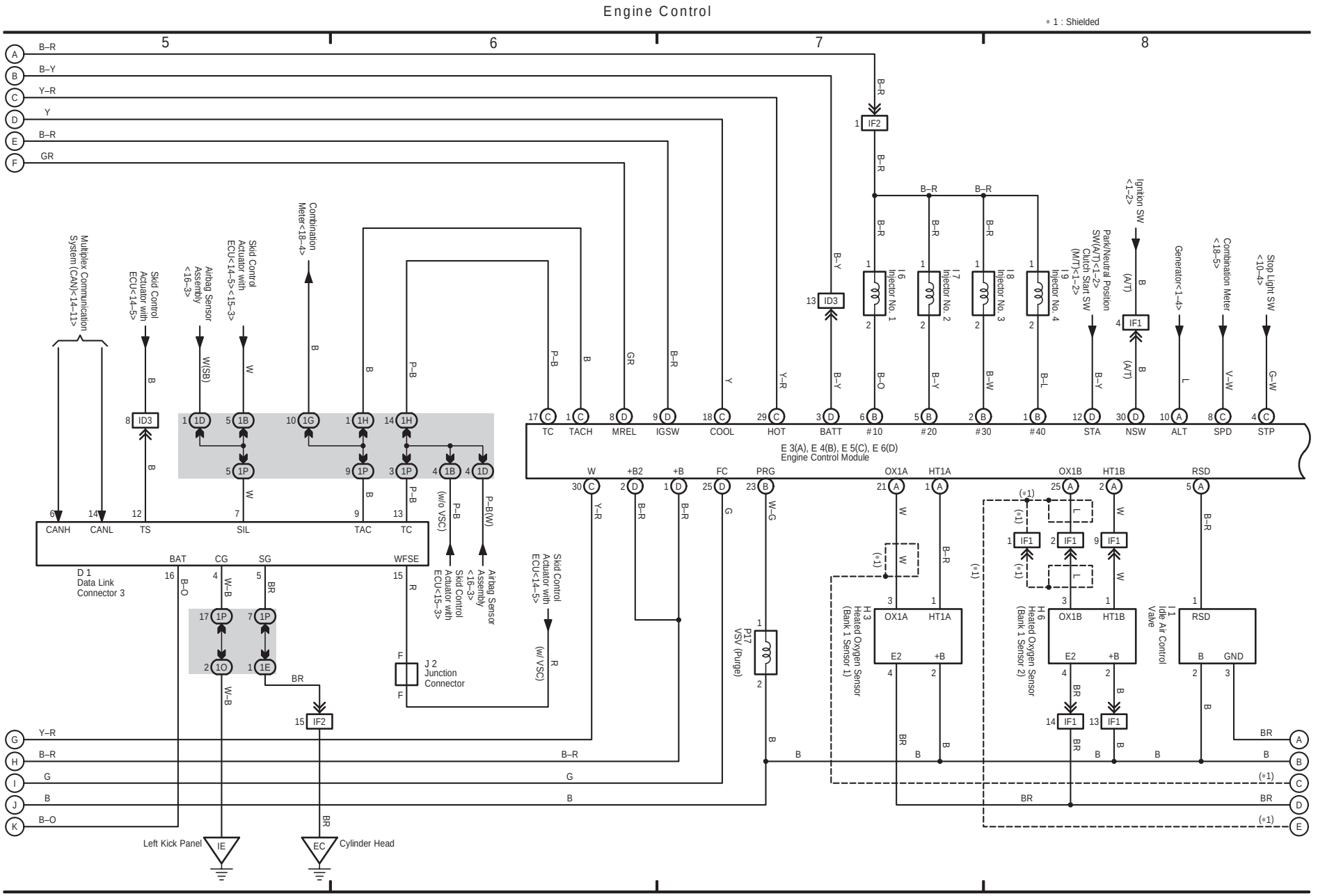
Code	Part Name	Part Number	Code	Part Name	Part Number

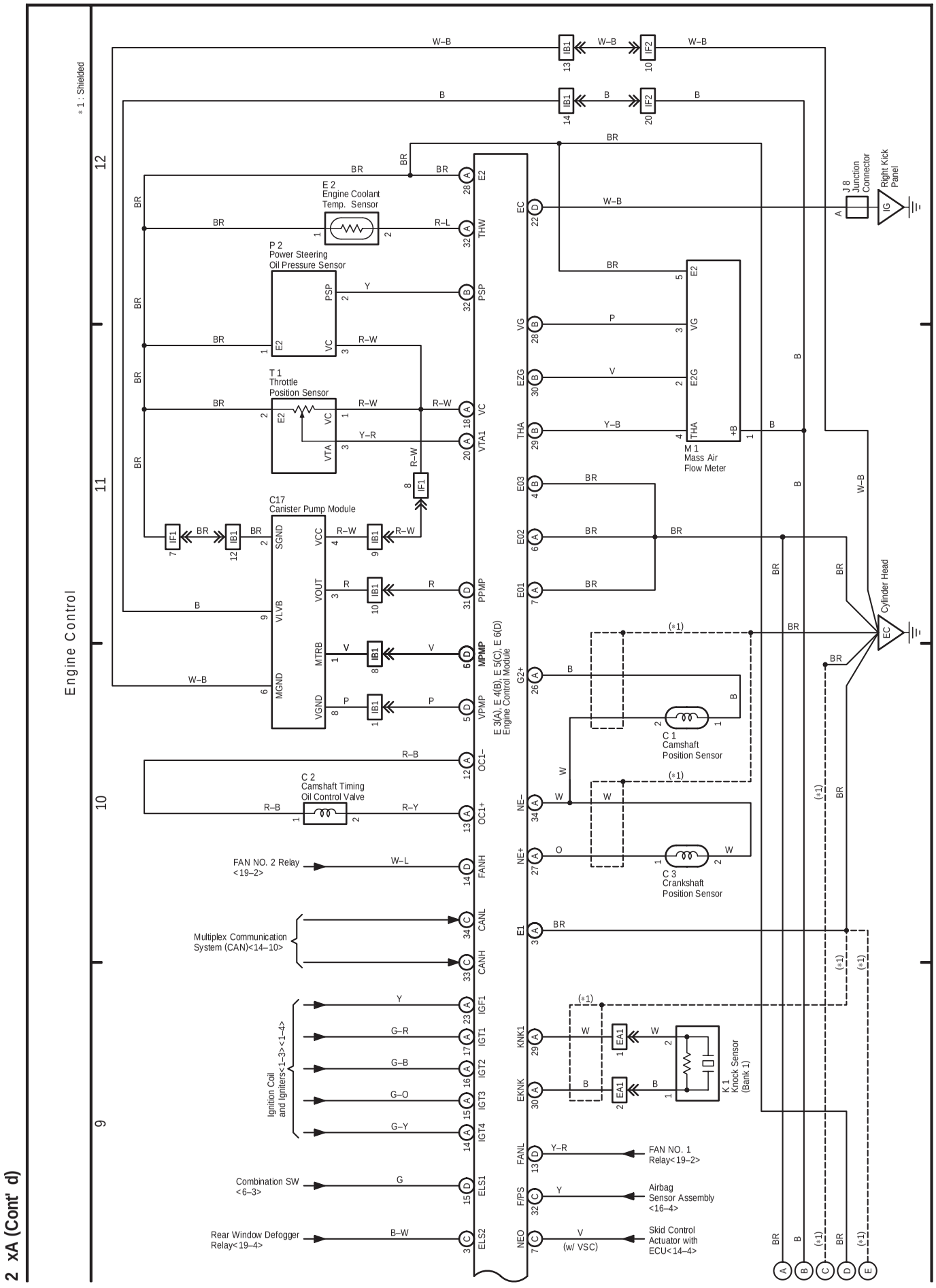
1 xA


Power Source
Starting and Ignition
Charging
1
2
3
4
I10
Ignition SW
ACC
IG1
IG2
ST2
AM1
AM2
W–L
W–R
B–Y
B–R
B
B–W
50A AM1
15A AM2
30A ST
120A ALT
60A MAIN
F10(A), F11(B)
Fusible Link Block
(w/ VSC)
(w/o VSC)
Battery
S 2(A), S 3(B)
Starter
ST
Relay
P1
Park/Neutral
Position SW
Engine Control
Module<2–8>
C9
Clutch Start SW
N1
Noise Filter
(Ignition)
Engine Control Module<2–9>
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
IGT
IGT2
IGT3
IGT4
GND
IGF
G–R
G–B
G–O
G–Y
W–B
Y
W
L
R–B
C11
Combination Meter
Charge
10A GAUGE
A/C Amplifier
<20–4>
Engine Control
Module<2–8>
G 1(A), G 2(B)
Generator
ED
Front Fender
Apron LH
EC
Cylinder Head


(Cont. next page)
Power Source
Engine Control
2 xA
C10(A) C11(B)
Combination
Meter
Water Temp.
Cool
Water Temp.
Hot
Malfunction
Indicator Lamp
C/OPN
Relay
F15
Fuel Pump
Left Quarter Pillar
Front Fender
Apron LH
EFI Relay
I10
Ignition SW
15A EFI
15A AM2
7. 5A OBD
(w/ VSC)
(w/o VSC)
60A MAIN
120A ALT
F10
Fusible Link Block
Battery

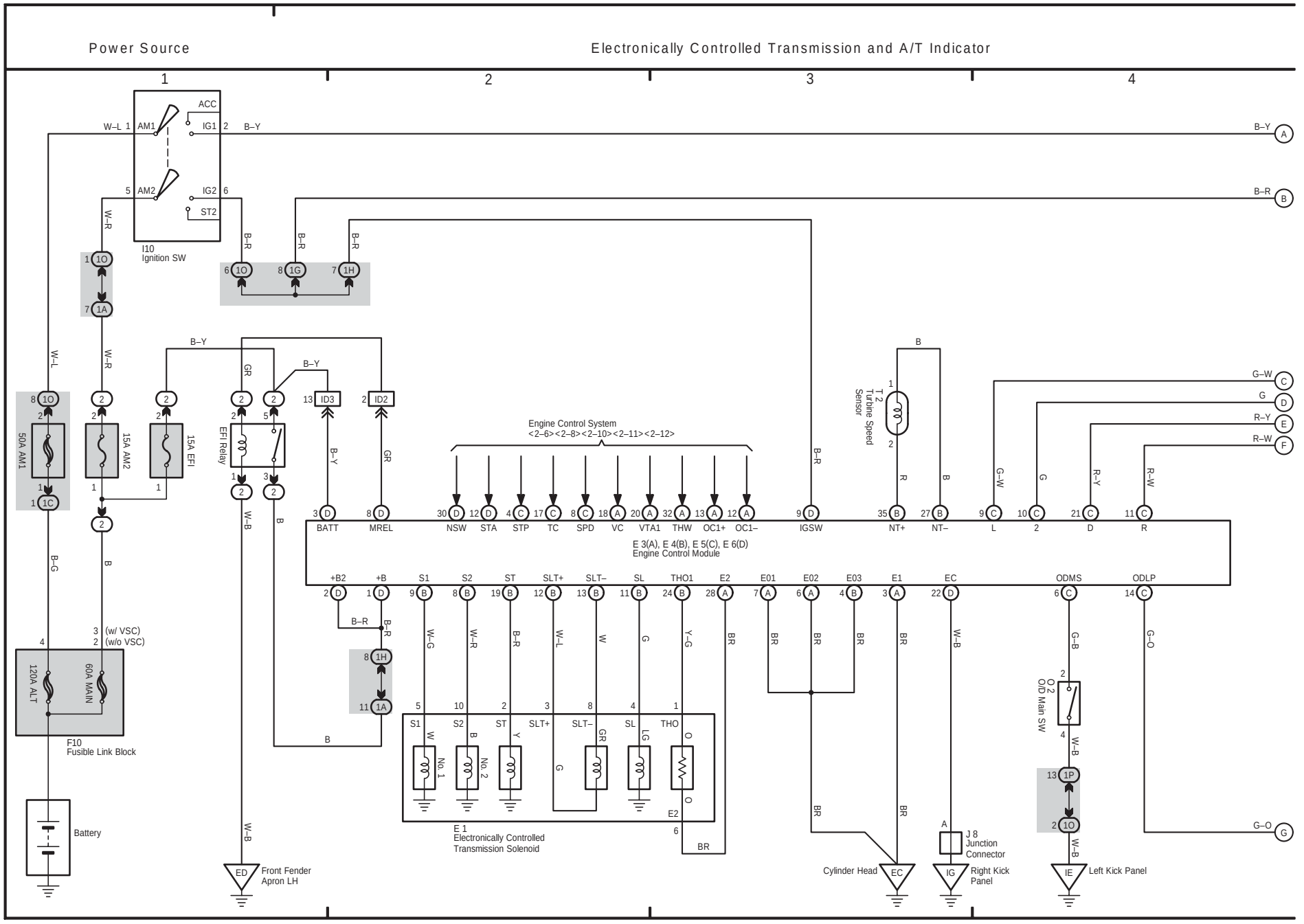
(Cont. next page)

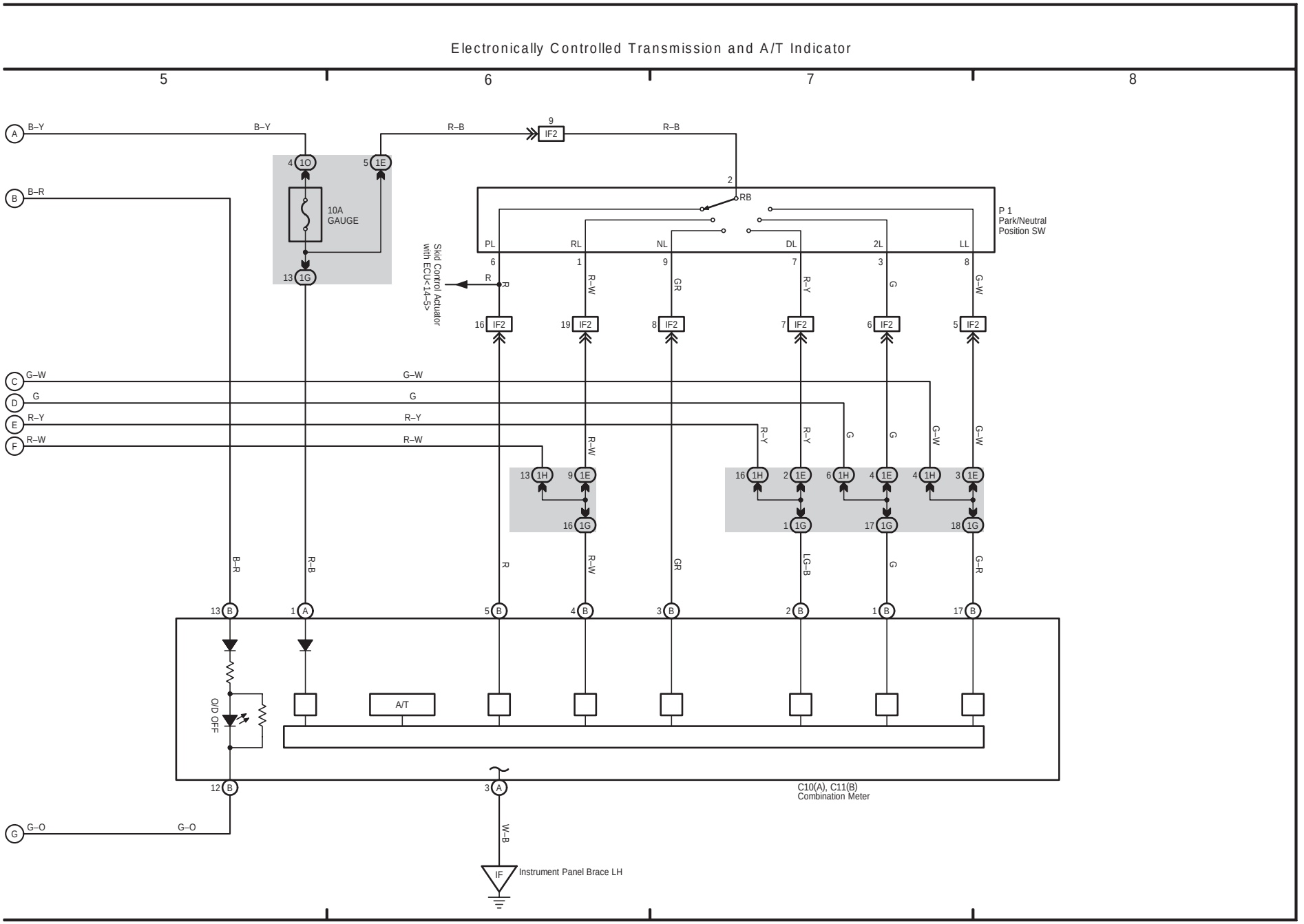


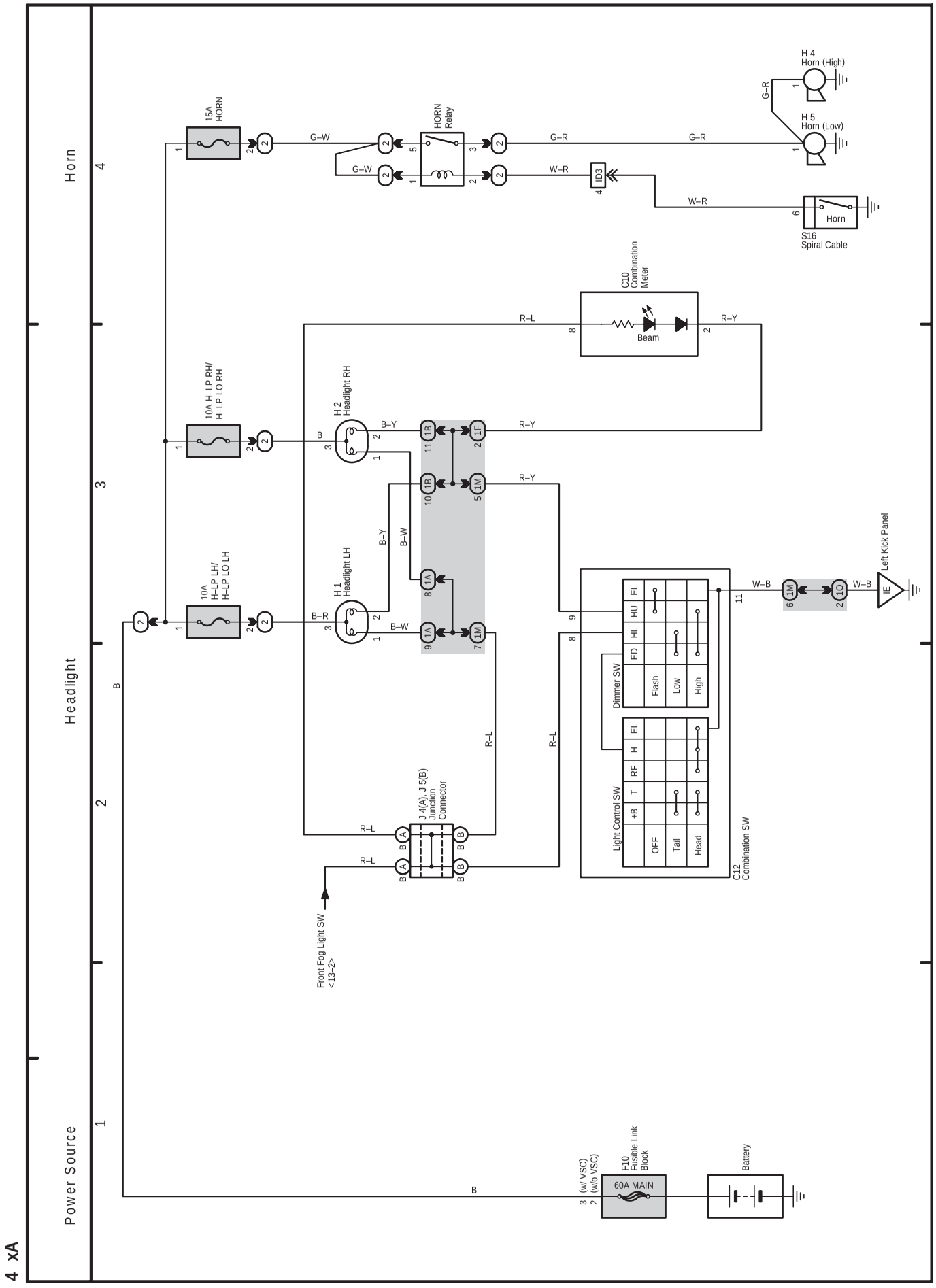

2 xA (Cont' d)
Engine Control
* 1 : Shielded
E 2
Engine Coolant
Temp. Sensor
P 2
Power Steering
Oil Pressure Sensor
T 1
Throttle
Position Sensor
C17
Canister Pump Module
C 2
Camshaft Timing
Oil Control Valve
M 1
Mass Air
Flow Meter
C 1
Camshaft
Position Sensor
C 3
Crankshaft
Position Sensor
K 1
Knock Sensor
(Bank 1)
J 8
Junction
Connector
Right Kick
Panel
Cylinder Head
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
FAN NO. 2 Relay
<19–2>
Multiplex Communication
System (CAN)<14–10>
Ignition Coil
and Igniters<1–3><1–4>
Combination SW
<6–3>
Rear Window Defogger
Relay<19–4>
FAN NO. 1
Relay<19–2>
Airbag
Sensor Assembly
<16–4>
Skid Control
Actuator with
ECU<14–4>
(w/ VSC)

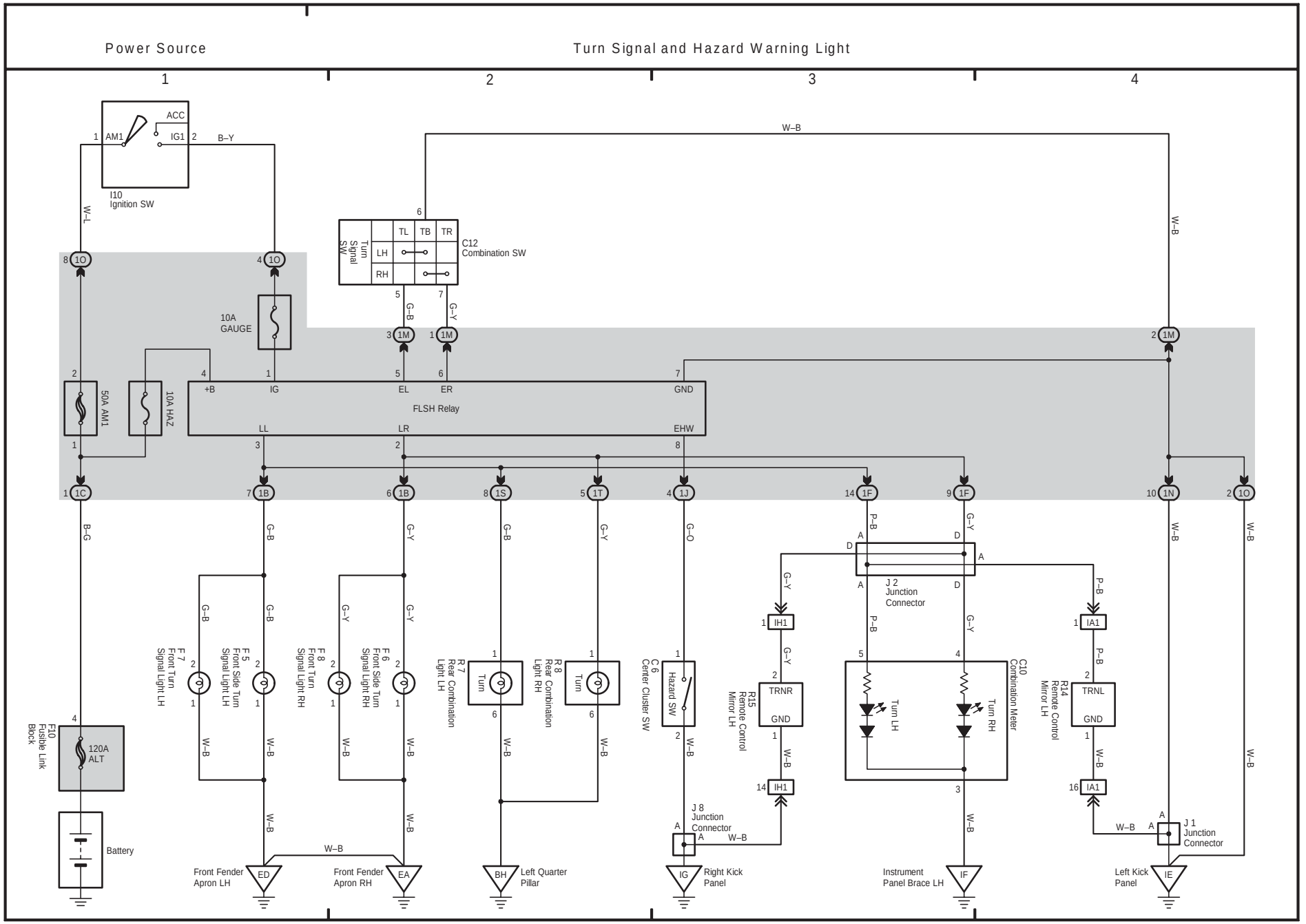
3 xA

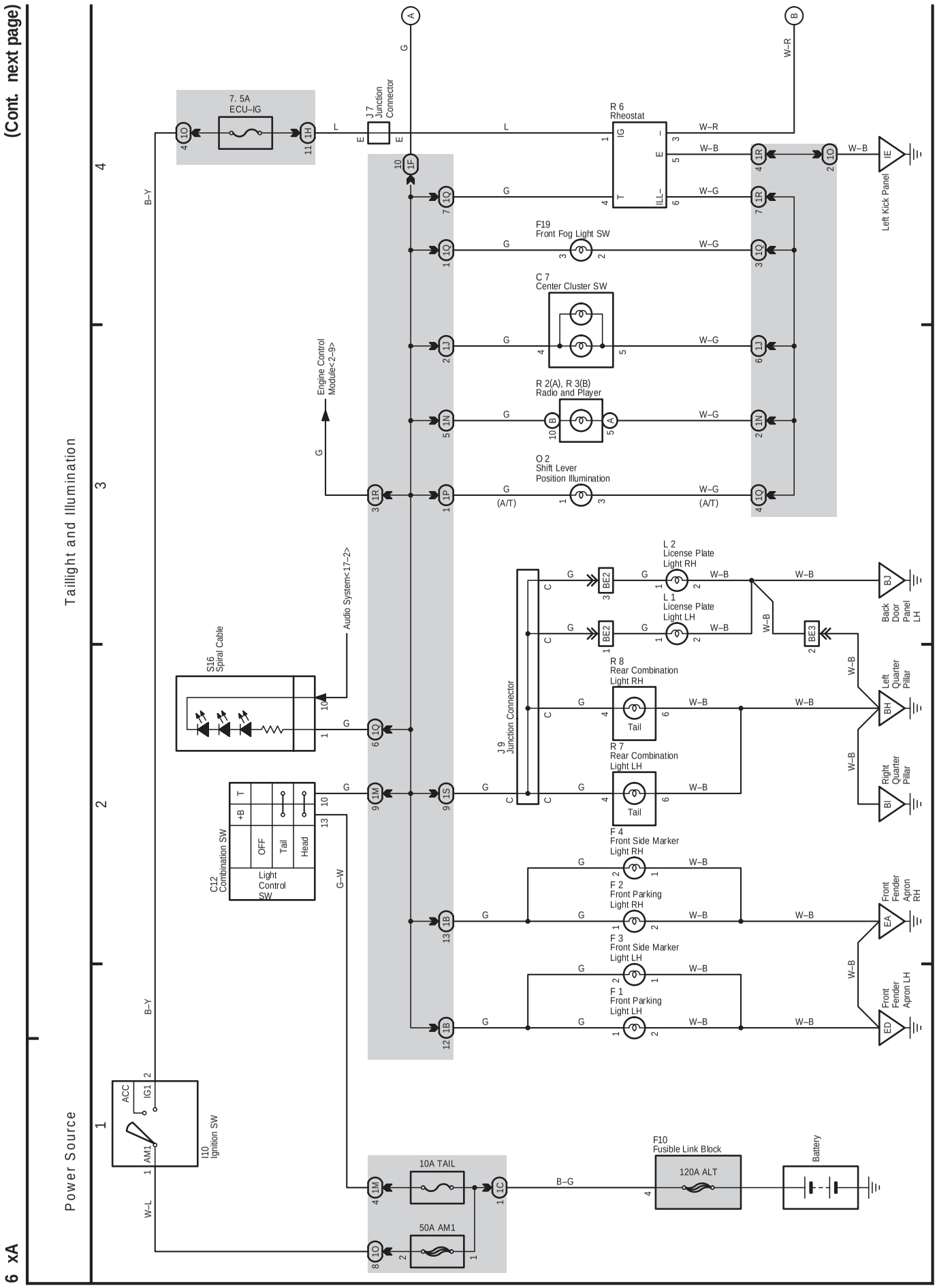
(Cont. next page)




Electronically Controlled Transmission and A/T Indicator
5
6
7
8
B–Y
B–Y
R–B
9
IF2
R–B
4 1O
5 1E
10A
GAUGE
13 1G
2
RB
P 1
Park/Neutral
Position SW
PL
RL
NL
DL
2L
LL
6
1
9
7
3
8
R
R–W
GR
R–Y
G
G–W
Skid Control Actuator
with ECU<14–5>
16 IF2
19 IF2
8 IF2
7 IF2
6 IF2
5 IF2
B–R
G–W
G
R–Y
R–W
13 1H
9 1E
16 1G
16 1H
2 1E
6 1H
4 1E
4 1H
3 1E
1 1G
17 1G
18 1G
B–R
R–B
R
R–W
GR
LG–B
G
G–R
13 B
1 A
5 B
4 B
3 B
2 B
1 B
17 B
O/D OFF
A/T
12 B
3 A
C10(A), C11(B)
Combination Meter
G–O
G–O
W–B
IF
Instrument Panel Brace LH

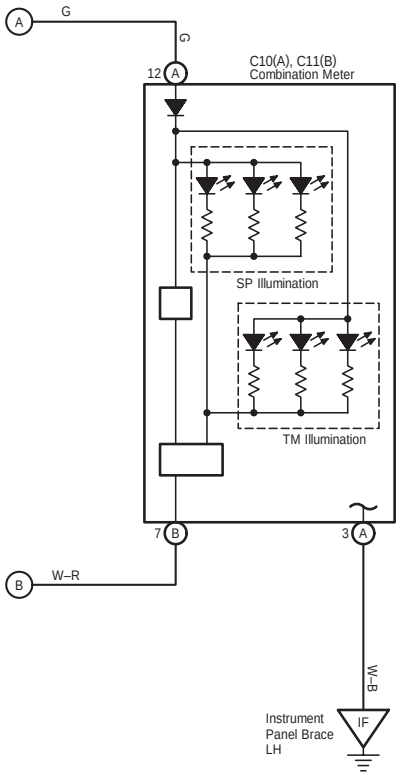

4 xA
Power Source
Headlight
Horn
1
2
3
4
15A HORN
HORN Relay
H 4 Horn (High)
H 5 Horn (Low)
G–W
G–R
W–R
ID3
Horn
S16 Spiral Cable
C10 Combination Meter
Beam
R–L
R–Y
10A H–LP RH/ H–LP LO RH
H 2 Headlight RH
B
B–Y
1B
1F
1M
10A H–LP LH/ H–LP LO LH
H 1 Headlight LH
B–R
B–W
1A
Left Kick Panel
IE
W–B
1O
Dimmer SW
Flash
Low
High
EL
HU
HL
ED
Light Control SW
OFF
Tail
Head
+B
T
RF
H
C12 Combination SW
J 4(A), J 5(B) Junction Connector
Front Fog Light SW <13–2>
F10 Fusible Link Block
(w/ VSC)
(w/o VSC)
60A MAIN
Battery

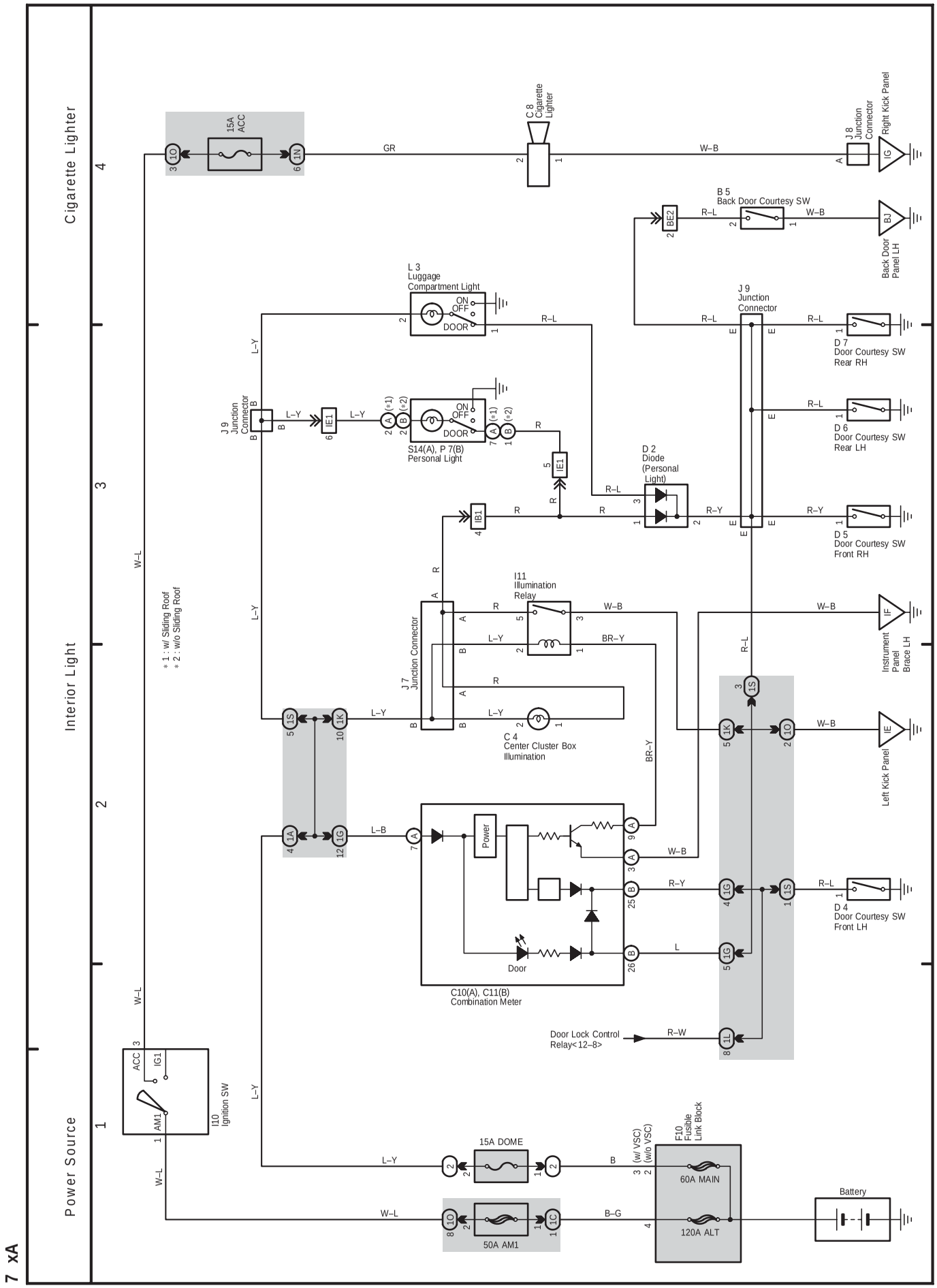

Power Source
Turn Signal and Hazard Warning Light
1
2
3
4
ACC
AM1
IG1
B–Y
I10
Ignition SW
W–L
W–B
C12
Combination SW
Turn Signal SW
TL
TB
TR
LH
RH
G–B
G–Y
10A GAUGE
50A AM1
10A HAZ
+B
IG
EL
ER
GND
FLSH Relay
LL
LR
EHW
F10
Fusible Link Block
120A ALT
Battery
B–G
F7
Front Turn Signal Light LH
F5
Front Side Turn Signal Light LH
F8
Front Turn Signal Light RH
F6
Front Side Turn Signal Light RH
R7
Rear Combination Light LH
R8
Rear Combination Light RH
Turn
C6
Center Cluster SW
Hazard SW
J 8
Junction Connector
R15
Remote Control Mirror LH
TRNR
GND
IH1
J 2
Junction Connector
P–B
C10
Combination Meter
Turn LH
Turn RH
R14
Remote Control Mirror LH
TRNL
IA1
J 1
Junction Connector
Front Fender Apron LH
ED
Front Fender Apron RH
EA
BH
Left Quarter Pillar
IG
Right Kick Panel
Instrument Panel Brace LH
IF
Left Kick Panel
IE

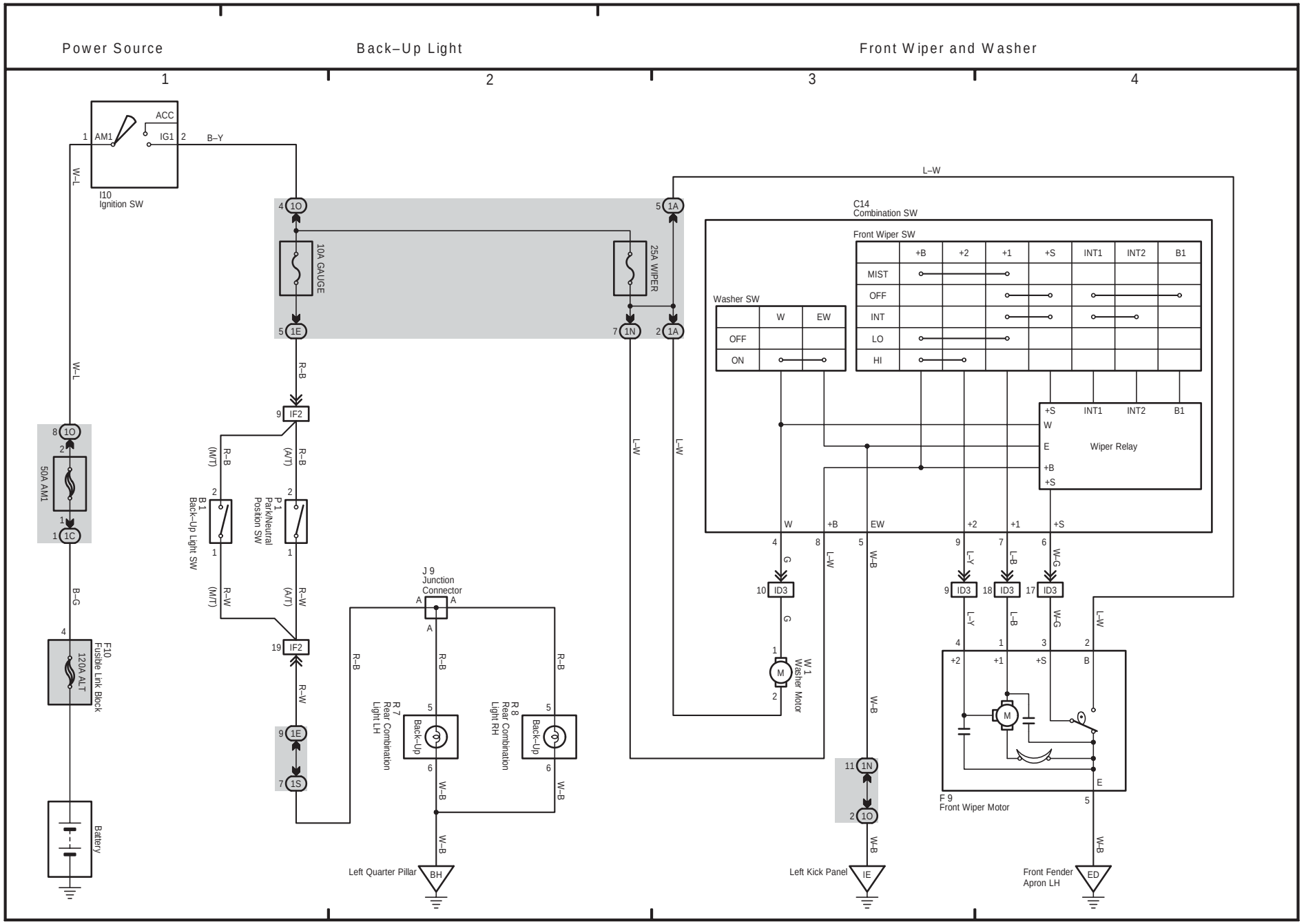

(Cont. next page)
Taillight and Illumination
Power Source
6 xA
7. 5A
ECU–IG
J 7
Junction
Connector
R 6
Rheostat
F19
Front Fog Light SW
C 7
Center Cluster SW
R 2(A), R 3(B)
Radio and Player
O 2
Shift Lever
Position Illumination
Engine Control
Module<2–9>
Left Kick Panel
L 2
License Plate
Light RH
L 1
License Plate
Light LH
Back
Door
Panel
LH
Audio System<17–2>
S16
Spiral Cable
J 9
Junction Connector
R 8
Rear Combination
Light RH
R 7
Rear Combination
Light LH
Tail
Left
Quarter
Pillar
Right
Quarter
Pillar
C12
Combination SW
Light
Control
SW
OFF
Tail
Head
+B
T
F 4
Front Side Marker
Light RH
F 2
Front Parking
Light RH
F 3
Front Side Marker
Light LH
F 1
Front Parking
Light LH
Front
Fender
Apron
RH
Front
Fender
Apron LH
I10
Ignition SW
ACC
IG1
AM1
10A TAIL
50A AM1
F10
Fusible Link Block
120A ALT
Battery
W–R
W–B
W–G
B–Y
B–G
G–W
W–L
G

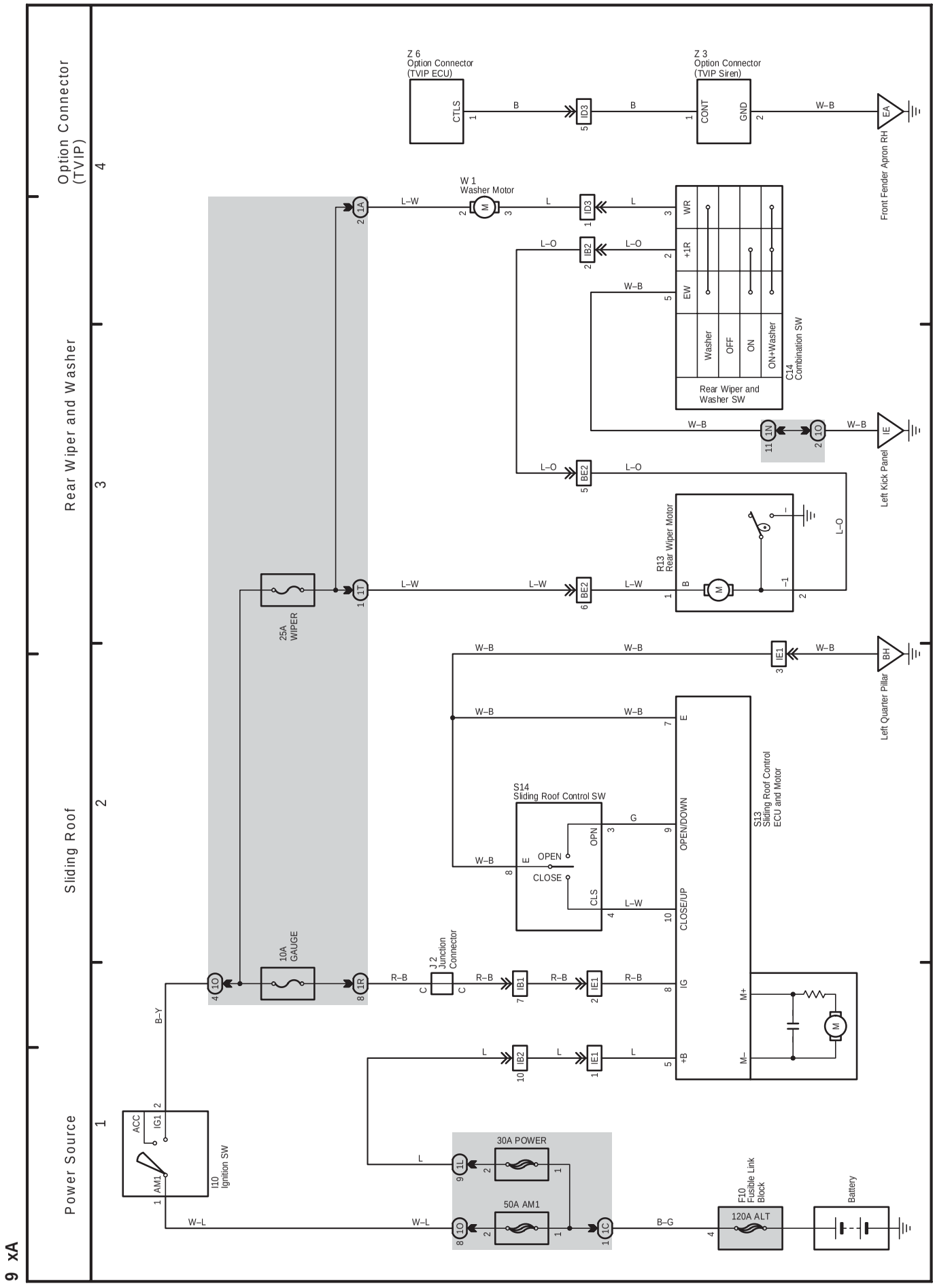
Taillight and Illumination

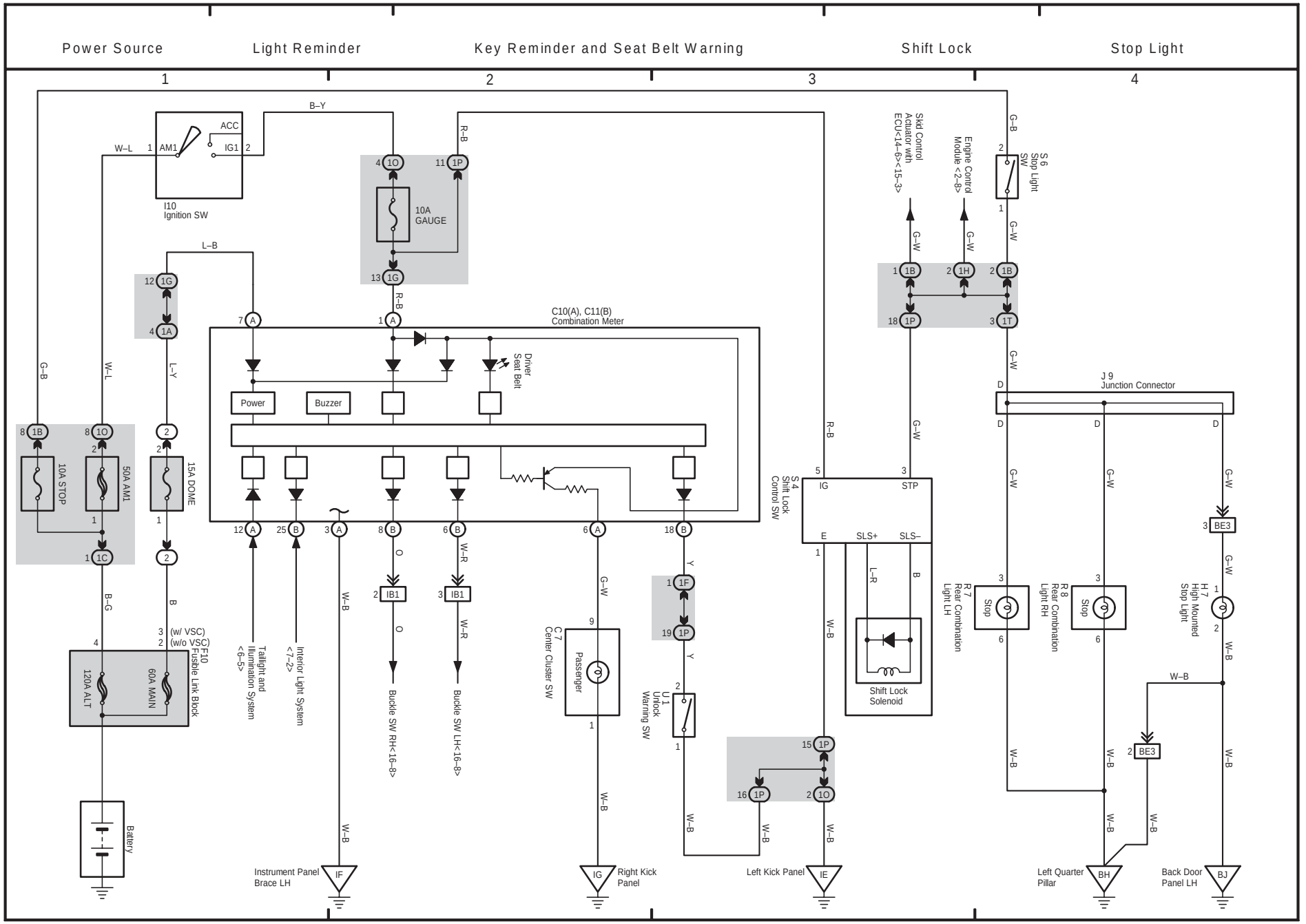
5 6 7 8



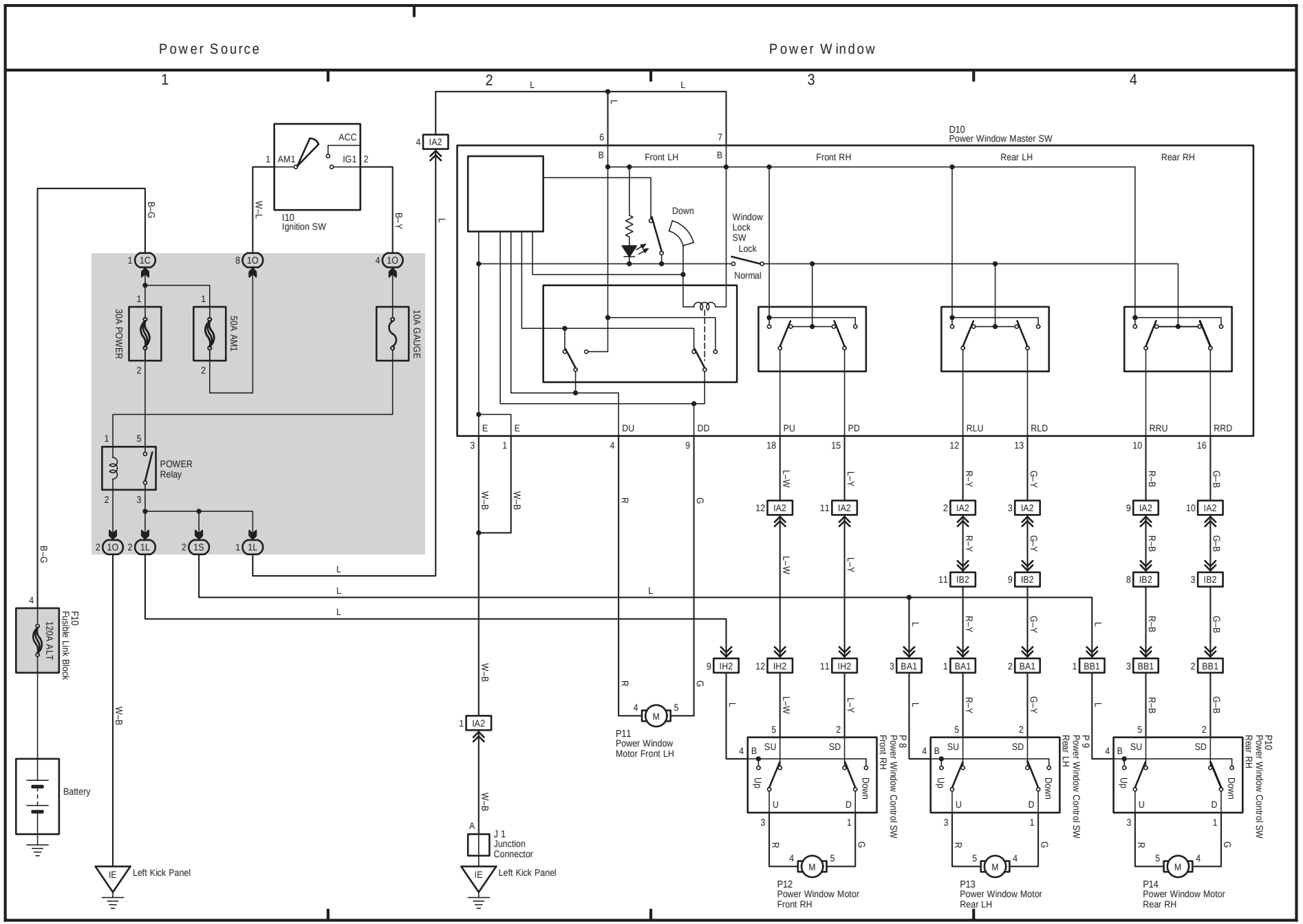

Cigarette Lighter
Interior Light
Power Source
15A ACC
C 8 Cigarette Lighter
J 8 Junction Connector
Right Kick Panel
B 5 Back Door Courtesy SW
Back Door Panel LH
L 3 Luggage Compartment Light
J 9 Junction Connector
D 7 Door Courtesy SW Rear RH
D 6 Door Courtesy SW Rear LH
D 5 Door Courtesy SW Front RH
D 4 Door Courtesy SW Front LH
S14(A), P 7(B) Personal Light
D 2 Diode (Personal Light)
I11 Illumination Relay
J 7 Junction Connector
C 4 Center Cluster Box Illumination
Instrument Panel Brace LH
Left Kick Panel
C10(A), C11(B) Combination Meter
Door
Power
Door Lock Control Relay<12–8>
I10 Ignition SW
ACC
IG1
AM1
15A DOME
50A AM1
F10 Fusible Link Block
(w/ VSC)
(w/o VSC)
60A MAIN
120A ALT
Battery
* 1 : w/ Sliding Roof
* 2 : w/o Sliding Roof
7 xA


Power Source
Back–Up Light
Front Wiper and Washer
1
2
3
4
ACC
AM1
IG1
B–Y
I10
Ignition SW
W–L
10A GAUGE
25A WIPER
1O
1A
1E
1N
C14
Combination SW
Front Wiper SW
+B
+2
+1
+S
INT1
INT2
B1
MIST
OFF
INT
LO
HI
Washer SW
W
EW
ON
L–W
R–B
IF2
(M/T)
(A/T)
B 1
Back–Up Light SW
P 1
Park/Neutral
Position SW
R–W
50A AM1
1C
B–G
F10
Fusible Link Block
120A ALT
Battery
J 9
Junction
Connector
A
R 7
Rear Combination
Light LH
R 8
Rear Combination
Light RH
Back–Up
W–B
Left Quarter Pillar
BH
W 1
Washer Motor
G
ID3
L–Y
L–B
W–G
Wiper Relay
E
F 9
Front Wiper Motor
B
M
Left Kick Panel
IE
Front Fender
Apron LH
ED


Option Connector (TVIP)
Rear Wiper and Washer
Sliding Roof
Power Source
1
2
3
4
Z 6
Option Connector
(TVIP ECU)
CTLS
Z 3
Option Connector
(TVIP Siren)
CONT
GND
Front Fender Apron RH
EA
W 1
Washer Motor
Rear Wiper and
Washer SW
C14
Combination SW
WR
+1R
EW
Washer
OFF
ON
ON+Washer
Left Kick Panel
IE
R13
Rear Wiper Motor
25A
WIPER
Left Quarter Pillar
BH
S14
Sliding Roof Control SW
OPEN
CLOSE
OPN
CLS
S13
Sliding Roof Control
ECU and Motor
OPEN/DOWN
CLOSE/UP
10A
GAUGE
J2
Junction
Connector
I10
Ignition SW
ACC
IG1
AM1
30A POWER
50A AM1
F10
Fusible Link
Block
120A ALT
Battery
IG
+B
M+
M–

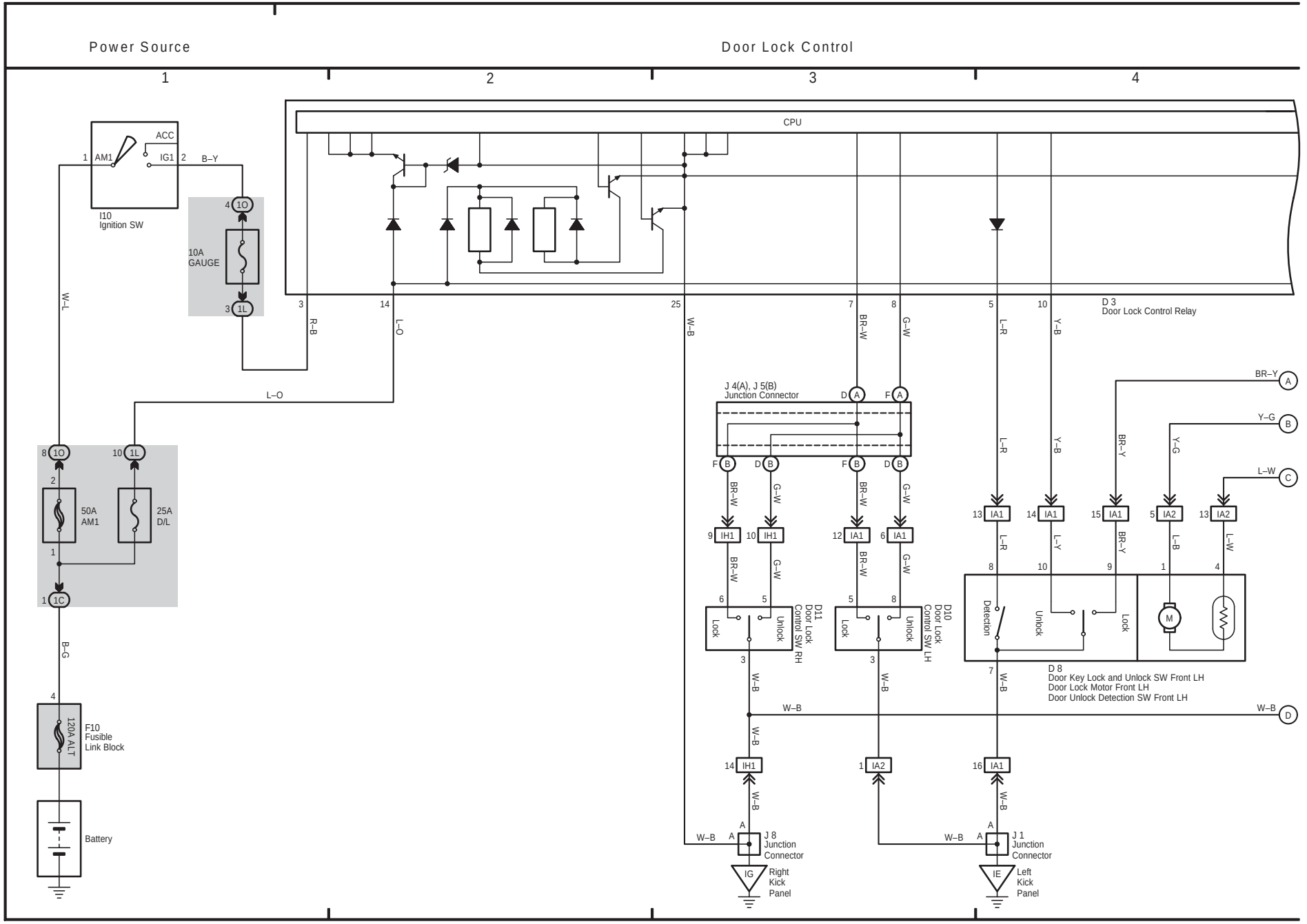

Power Source
Light Reminder
Key Reminder and Seat Belt Warning
Shift Lock
Stop Light
1
2
3
4
I10
Ignition SW
ACC
IG1
AM1
W–L
B–Y
10A
GAUGE
R–B
L–B
C10(A), C11(B)
Combination Meter
Power
Buzzer
Driver
Seat Belt
G–B
W–L
L–Y
10A STOP
50A AM1
15A DOME
B–G
B
F10
Fusible Link Block
120A ALT
60A MAIN
(w/ VSC)
(w/o VSC)
Battery
Taillight and
Illumination System
<6–5>
Interior Light System
<7–2>
W–B
O
Buckle SW RH<16–8>
W–R
Buckle SW LH<16–8>
G–W
C7
Center Cluster SW
Passenger
Y
U1
Unlock
Warning SW
Instrument Panel
Brace LH
IF
Right Kick
Panel
IG
Left Kick Panel
IE
Skid Control
Actuator with
ECU<14–6><15–3>
Engine Control
Module <2–8>
S6
Stop Light
SW
S4
Shift Lock
Control SW
IG
STP
E
SLS+
SLS–
L–R
B
Shift Lock
Solenoid
J9
Junction Connector
R7
Rear Combination
Light LH
R8
Rear Combination
Light RH
H7
High Mounted
Stop Light
Stop
BE3
Left Quarter
Pillar
BH
Back Door
Panel LH
BJ

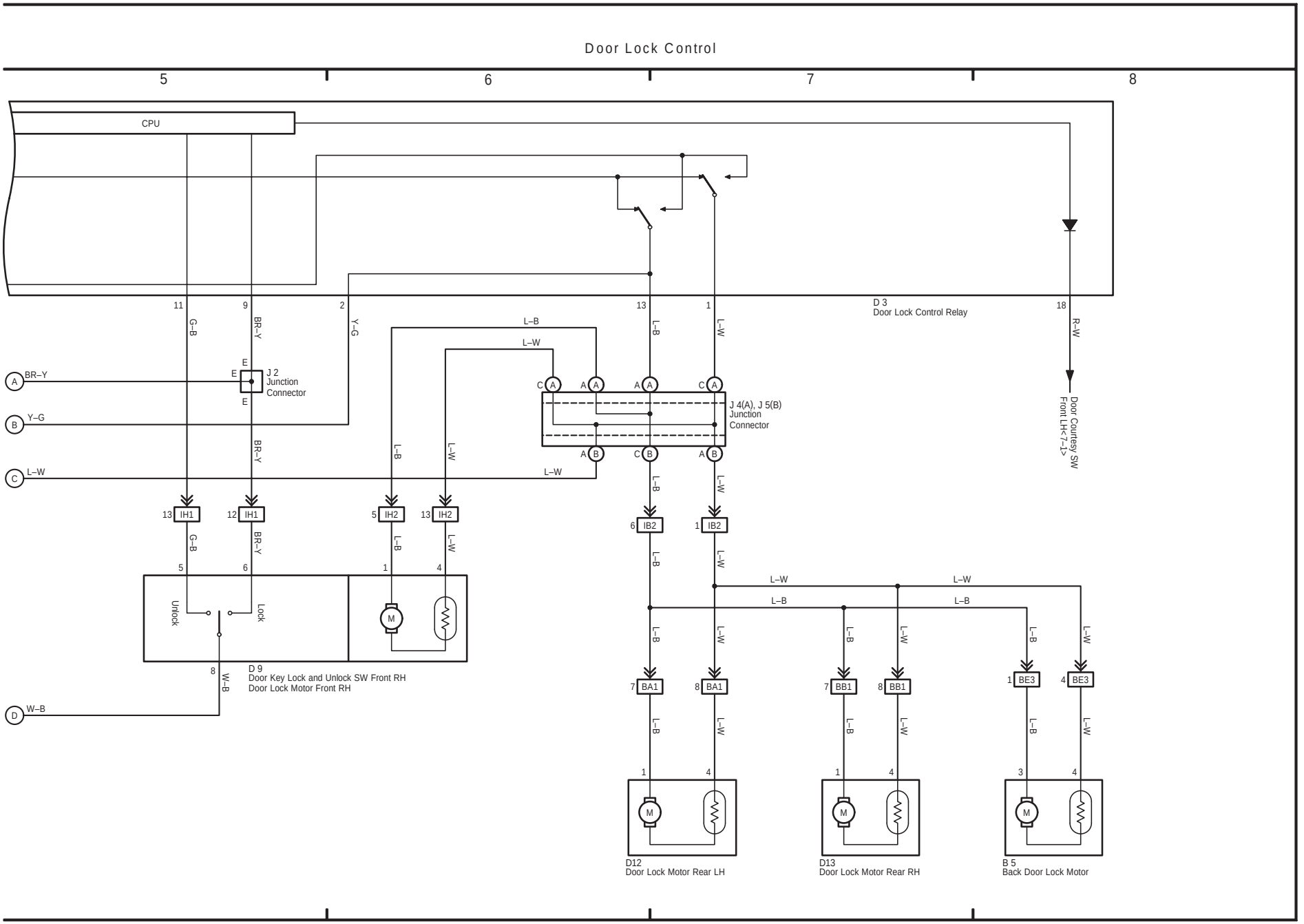
11 xA


Power Source
Power Window
1
2
3
4
ACC
AM1
IG1
I10
Ignition SW
D10
Power Window Master SW
Front LH
Front RH
Rear LH
Rear RH
Down
Window Lock SW
Lock
Normal
30A POWER
50A AM1
10A GAUGE
POWER Relay
F10
Fusible Link Block
120A ALT
Battery
J 1
Junction Connector
Left Kick Panel
P11
Power Window Motor Front LH
P12
Power Window Motor Front RH
P13
Power Window Motor Rear LH
P14
Power Window Motor Rear RH
P 8
Power Window Control SW Front RH
P 9
Power Window Control SW Rear LH
P10
Power Window Control SW Rear RH
Up
Down
SU
SD
U
D

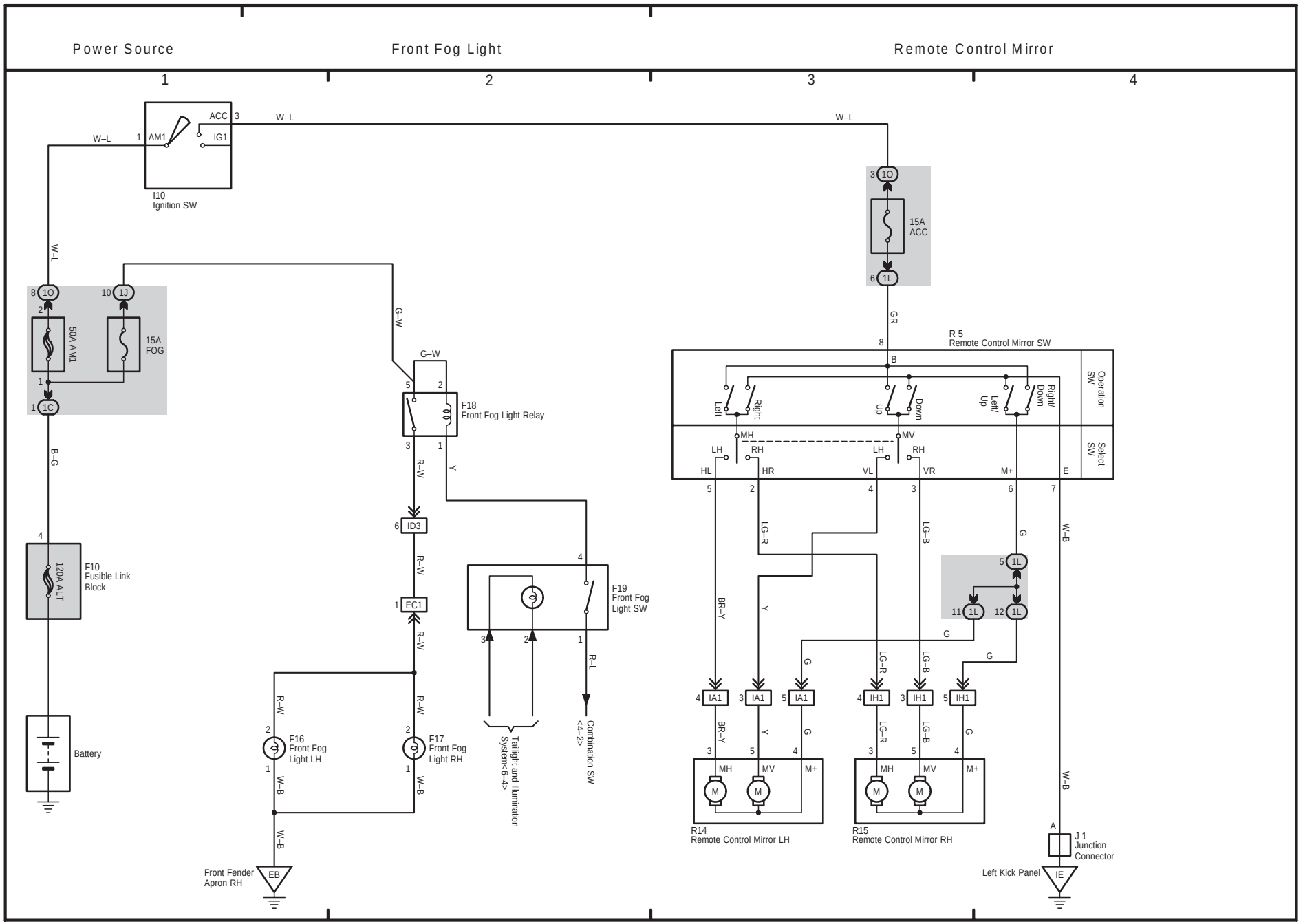
12 xA

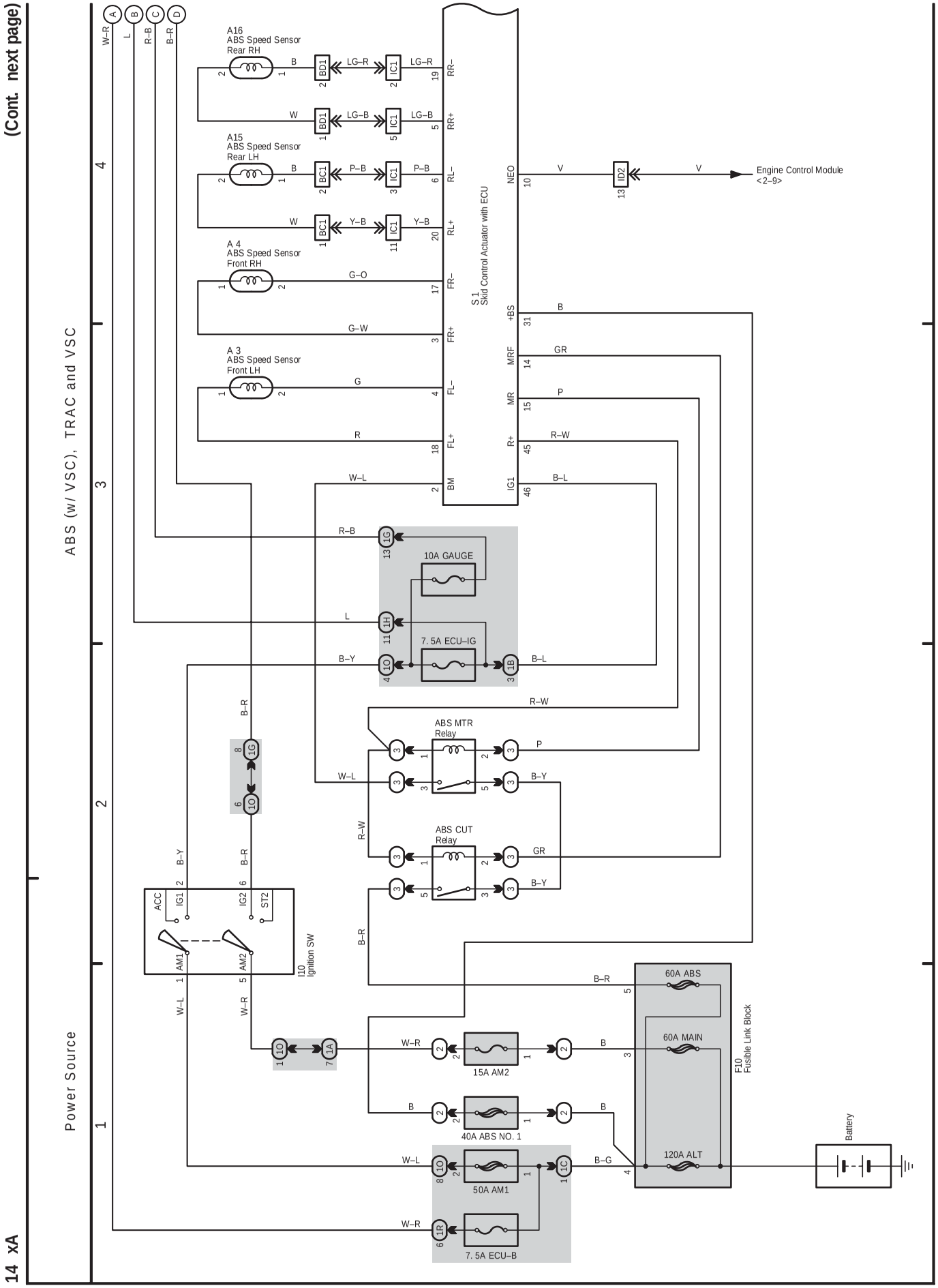
(Cont. next page)




Door Lock Control
5
6
7
8
CPU
11
9
2
13
1
D 3
Door Lock Control Relay
18
R–W
Door Courtesy SW
Front LH<7–1>
G–B
BR–Y
Y–G
L–B
L–W
A
BR–Y
E
J 2
Junction
Connector
B
Y–G
C
L–W
J 4(A), J 5(B)
Junction
Connector
13 IH1
12 IH1
5 IH2
13 IH2
6 IB2
1 IB2
5
6
1
4
Unlock
Lock
M
8
W–B
D
W–B
D 9
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
7 BA1
8 BA1
7 BB1
8 BB1
1 BE3
4 BE3
D12
Door Lock Motor Rear LH
D13
Door Lock Motor Rear RH
3
B 5
Back Door Lock Motor

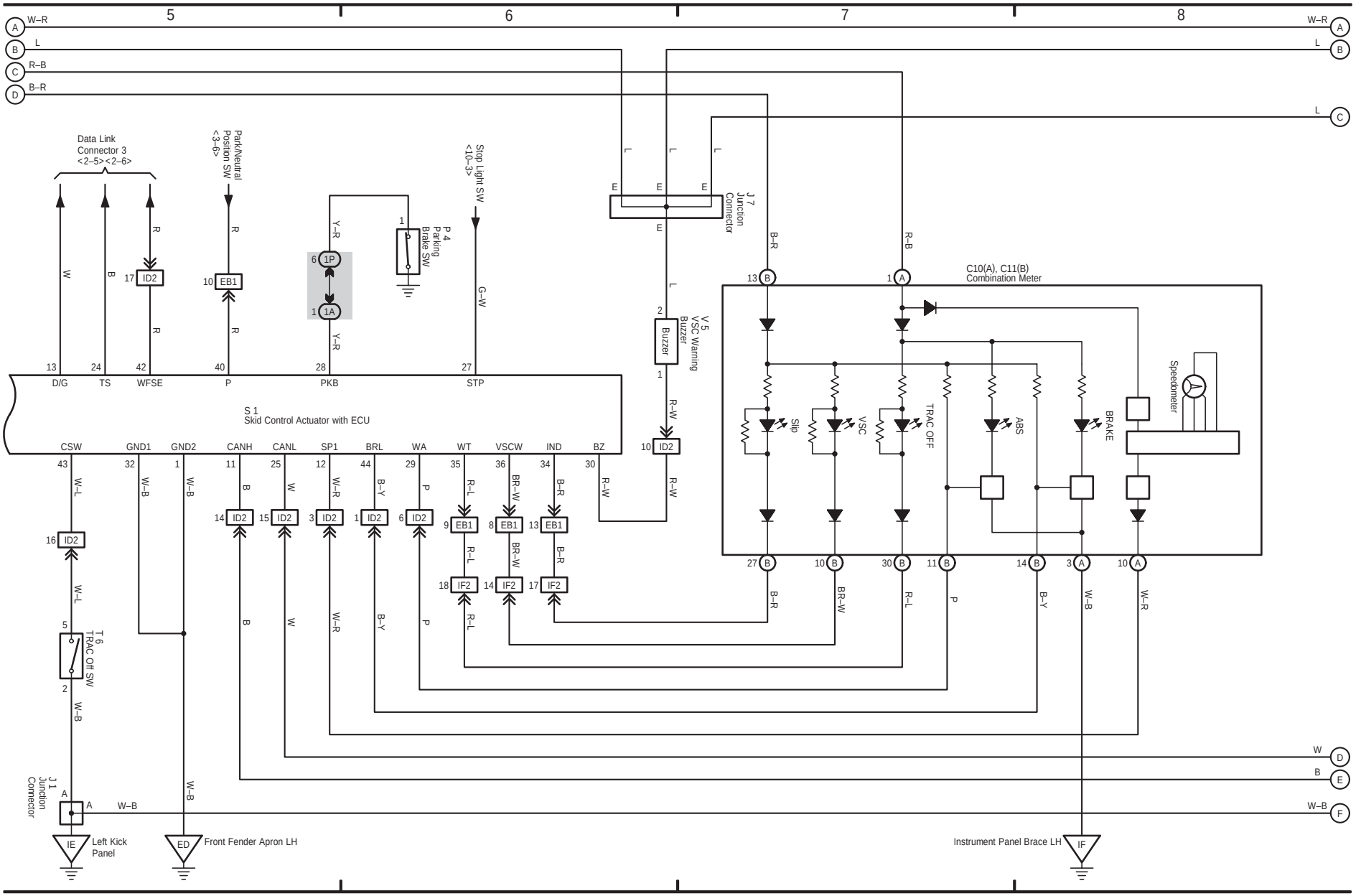
13 xA


Power Source
Front Fog Light
Remote Control Mirror
1
2
3
4
I10
Ignition SW
ACC
IG1
AM1
W–L
15A
ACC
1O
1L
GR
R 5
Remote Control Mirror SW
Operation SW
Select SW
Left
Right
Up
Down
Left/ Up
Right/ Down
MH
MV
LH
RH
HL
HR
VL
VR
M+
E
50A AM1
15A
FOG
1C
1J
B–G
G–W
F18
Front Fog Light Relay
R–W
Y
ID3
EC1
F10
Fusible Link
Block
120A ALT
Battery
F19
Front Fog
Light SW
R–L
F16
Front Fog
Light LH
F17
Front Fog
Light RH
W–B
Front Fender
Apron RH
EB
Taillight and Illumination System<6–4>
Combination SW <4–2>
LG–R
LG–B
G
BR–Y
IA1
IH1
R14
Remote Control Mirror LH
R15
Remote Control Mirror RH
J 1
Junction
Connector
Left Kick Panel
IE

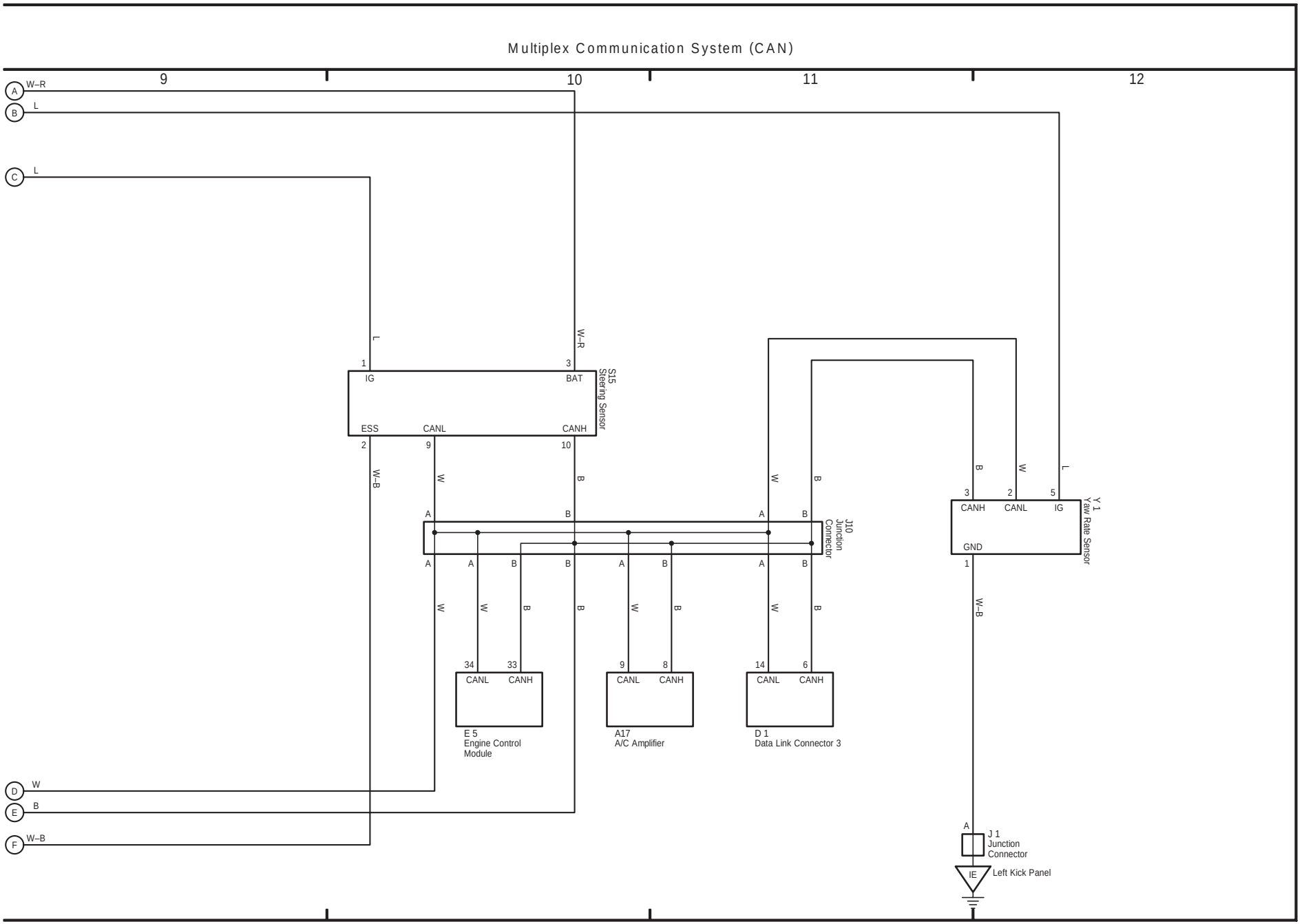

(Cont. next page)
ABS (w/ VSC), TRAC and VSC
Power Source
14 xA
A16
ABS Speed Sensor
Rear RH
A15
ABS Speed Sensor
Rear LH
A 4
ABS Speed Sensor
Front RH
A 3
ABS Speed Sensor
Front LH
S 1
Skid Control Actuator with ECU
Engine Control Module
<2–9>
10A GAUGE
7. 5A ECU–IG
ABS MTR
Relay
ABS CUT
Relay
I10
Ignition SW
ACC
IG1
IG2
ST2
60A ABS
60A MAIN
120A ALT
F10
Fusible Link Block
15A AM2
40A ABS NO. 1
50A AM1
7. 5A ECU–B
Battery

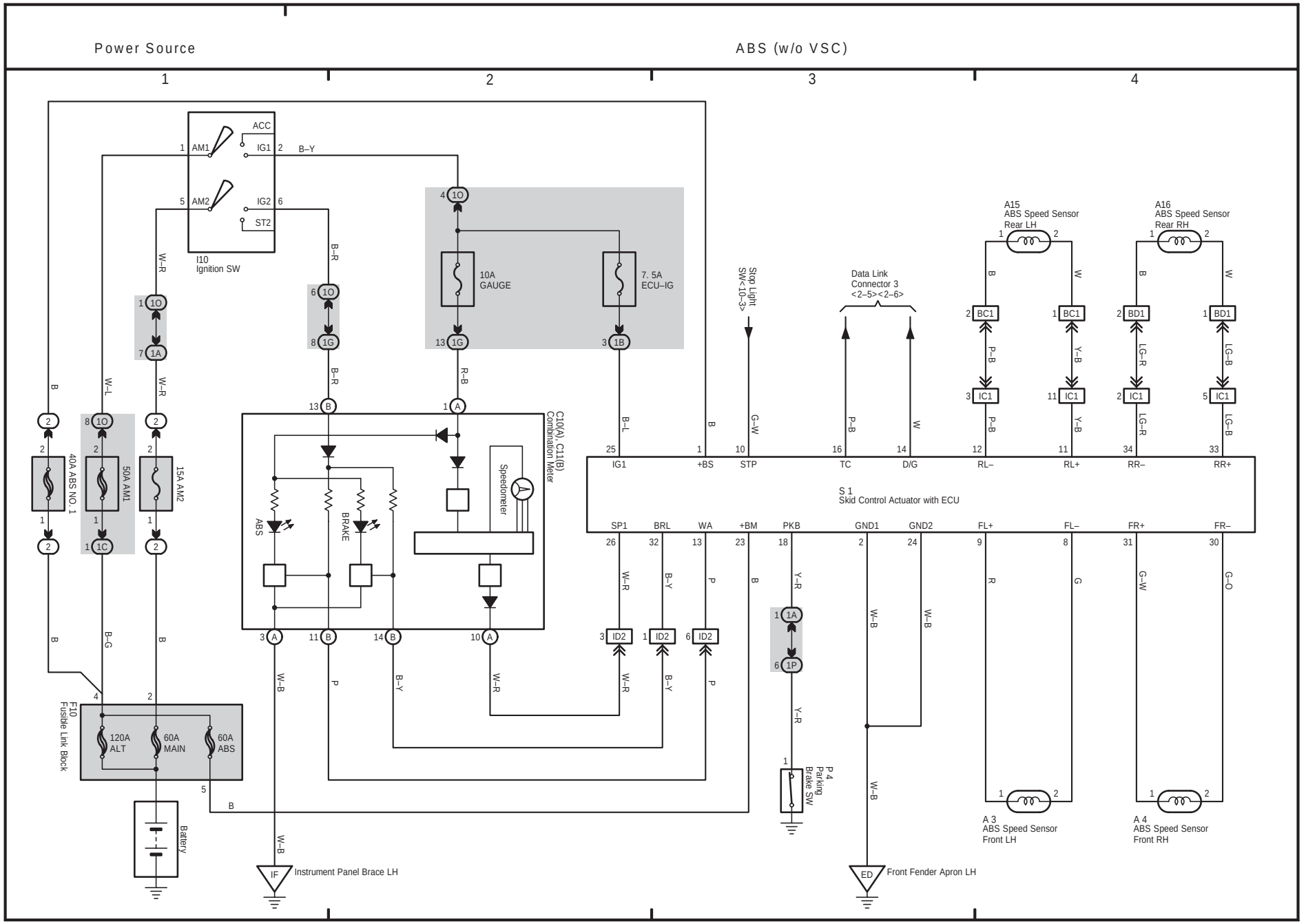
(Cont. next page)

ABS (w/ VSC), TRAC and VSC



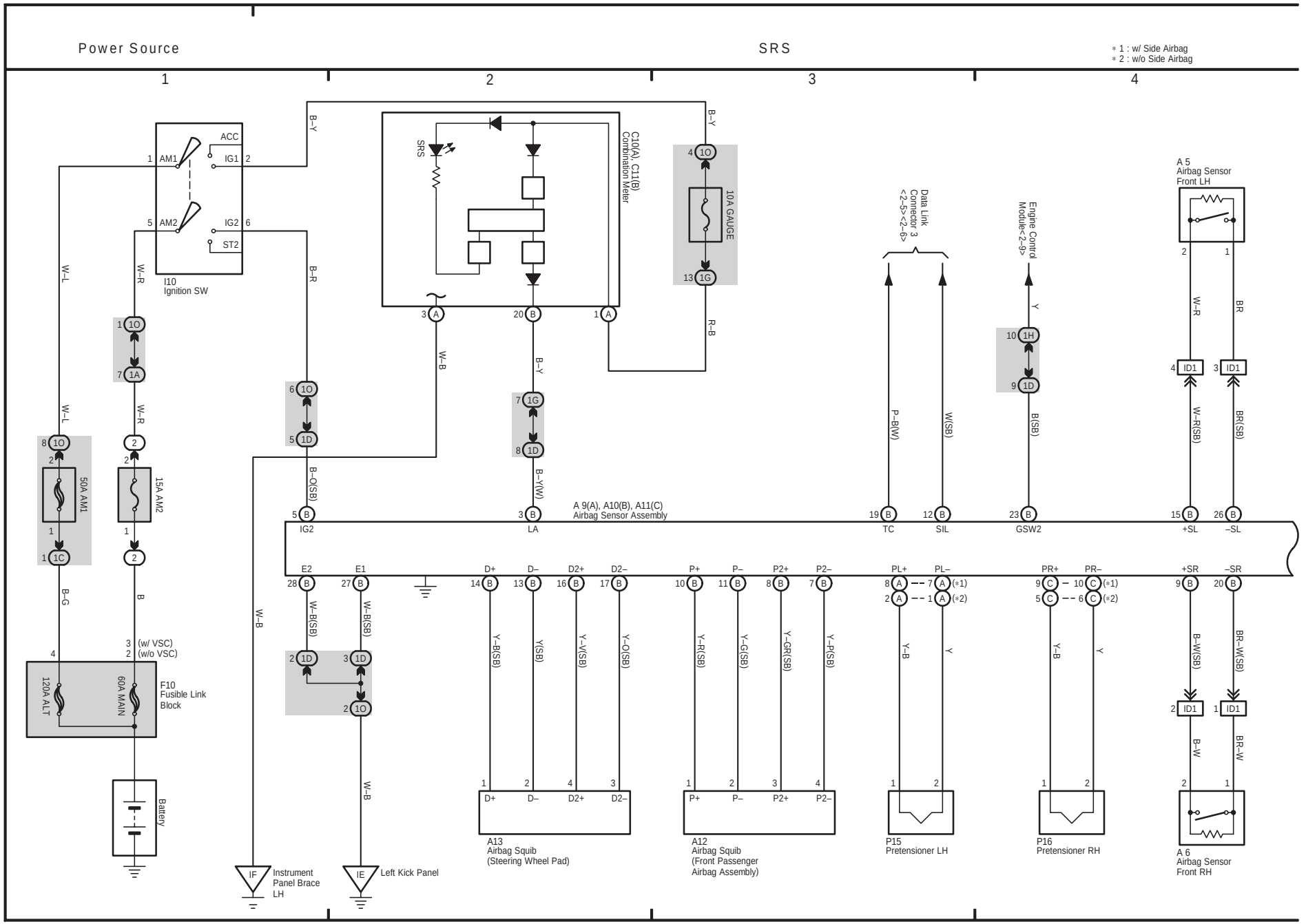
14 xA (Cont' d)

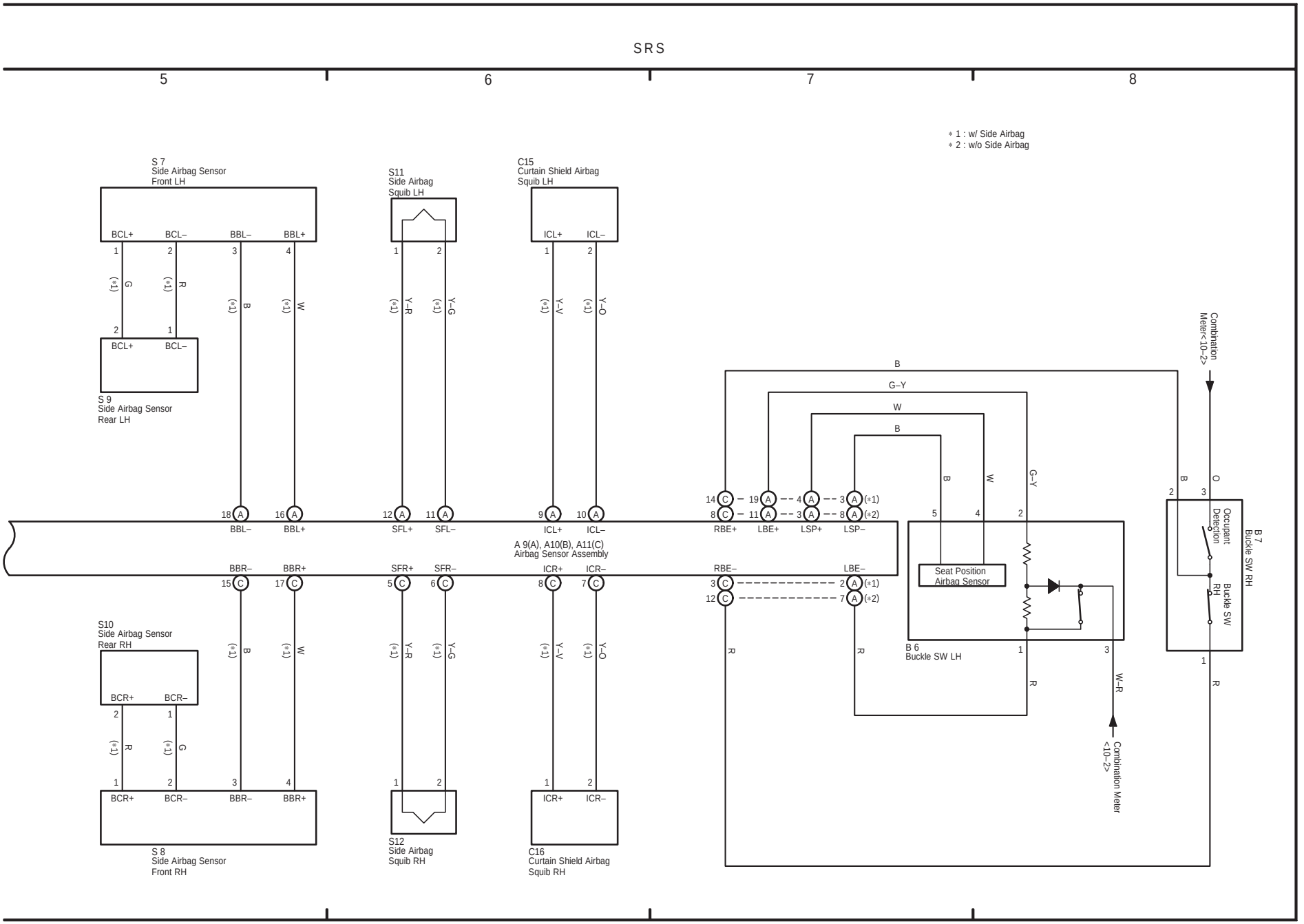

Multiplex Communication System (CAN)
9
10
11
12
A W–R
B L
C L
D W
E B
F W–B
S15
Steering Sensor
IG
BAT
ESS
CANL
CANH
J10
Junction
Connector
Y 1
Yaw Rate Sensor
GND
E 5
Engine Control
Module
A17
A/C Amplifier
D 1
Data Link Connector 3
J 1
Junction
Connector
IE
Left Kick Panel


Power Source
ABS (w/o VSC)
1
2
3
4
ACC
AM1
IG1
B–Y
AM2
IG2
ST2
I10
Ignition SW
W–R
B–R
10A
GAUGE
7. 5A
ECU–IG
R–B
B–L
Stop Light
SW<10–3>
G–W
Data Link
Connector 3
<2–5><2–6>
P–B
W
A15
ABS Speed Sensor
Rear LH
A16
ABS Speed Sensor
Rear RH
Y–B
LG–R
LG–B
W–L
B
40A ABS NO. 1
50A AM1
15A AM2
C10(A), C11(B)
Combination Meter
ABS
BRAKE
Speedometer
IG1
+BS
STP
TC
D/G
RL–
RL+
RR–
RR+
S 1
Skid Control Actuator with ECU
SP1
BRL
WA
+BM
PKB
GND1
GND2
FL+
FL–
FR+
FR–
B–G
W–B
P
B–Y
Y–R
R
G
G–W
G–O
F10
Fusible Link Block
120A
ALT
60A
MAIN
60A
ABS
Battery
P 4
Parking
Brake SW
A 3
ABS Speed Sensor
Front LH
A 4
ABS Speed Sensor
Front RH
IF
Instrument Panel Brace LH
ED
Front Fender Apron LH

16 xA

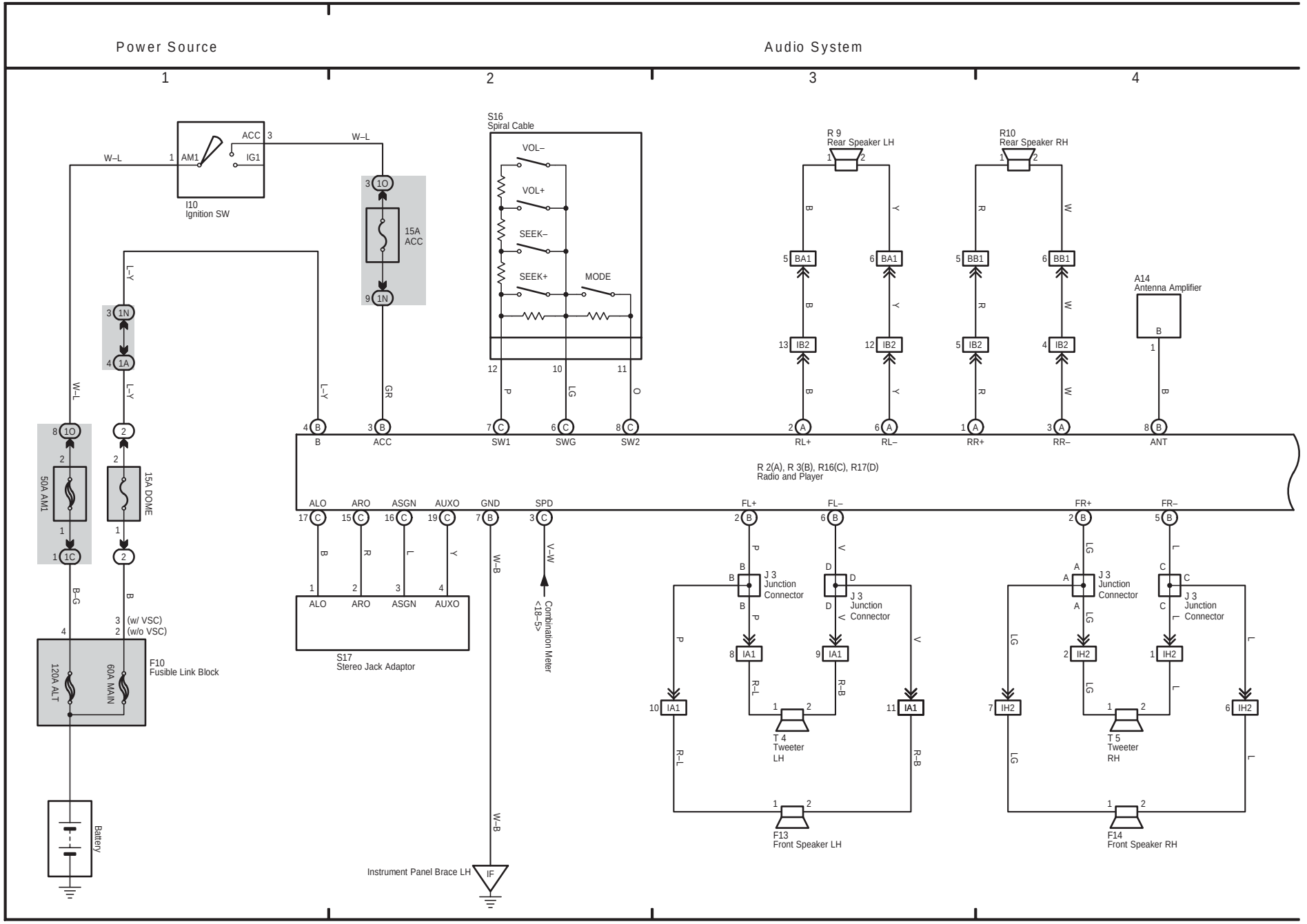
(Cont. next page)




SRS
5
6
7
8
* 1 : w/ Side Airbag
* 2 : w/o Side Airbag
S 7
Side Airbag Sensor
Front LH
BCL+
BCL–
BBL–
BBL+
S 9
Side Airbag Sensor
Rear LH
S11
Side Airbag
Squib LH
C15
Curtain Shield Airbag
Squib LH
ICL+
ICL–
A 9(A), A10(B), A11(C)
Airbag Sensor Assembly
RBE+
LBE+
LSP+
LSP–
RBE–
LBE–
Seat Position
Airbag Sensor
B 6
Buckle SW LH
B 7
Buckle SW RH
Occupant
Detection
Buckle SW
RH
Combination
Meter<10–2>
Combination Meter
<10–2>
S10
Side Airbag Sensor
Rear RH
BCR+
BCR–
BBR–
BBR+
S 8
Side Airbag Sensor
Front RH
S12
Side Airbag
Squib RH
C16
Curtain Shield Airbag
Squib RH
SFR+
SFR–
SFL+
SFL–
ICR+
ICR–
W–R

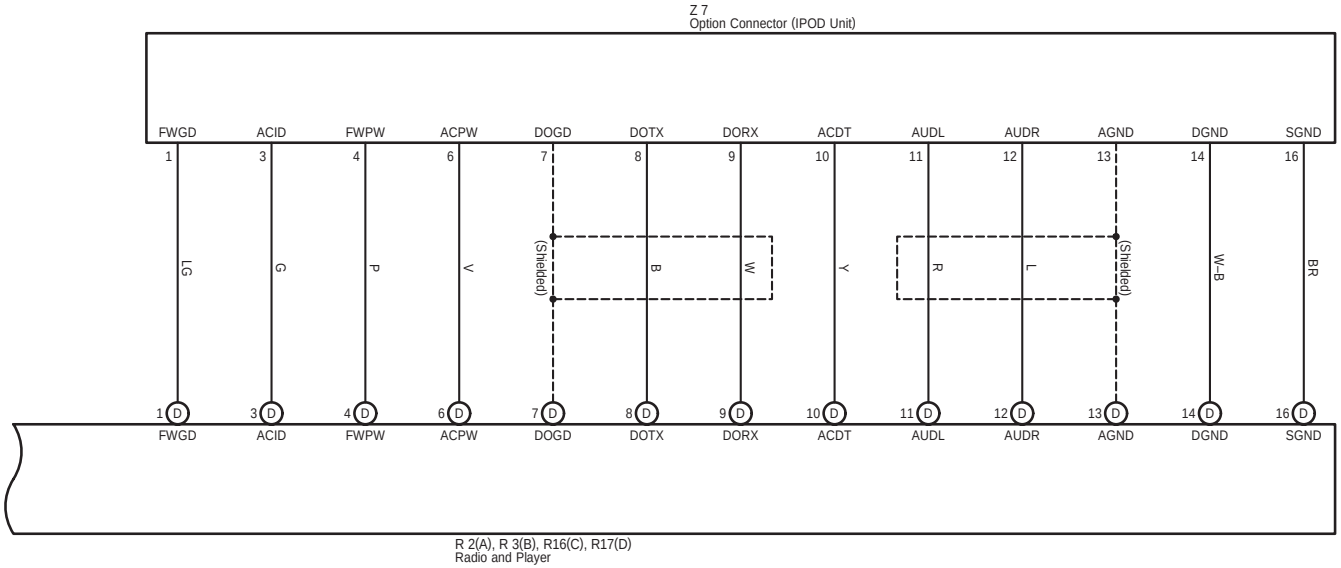
17 xA

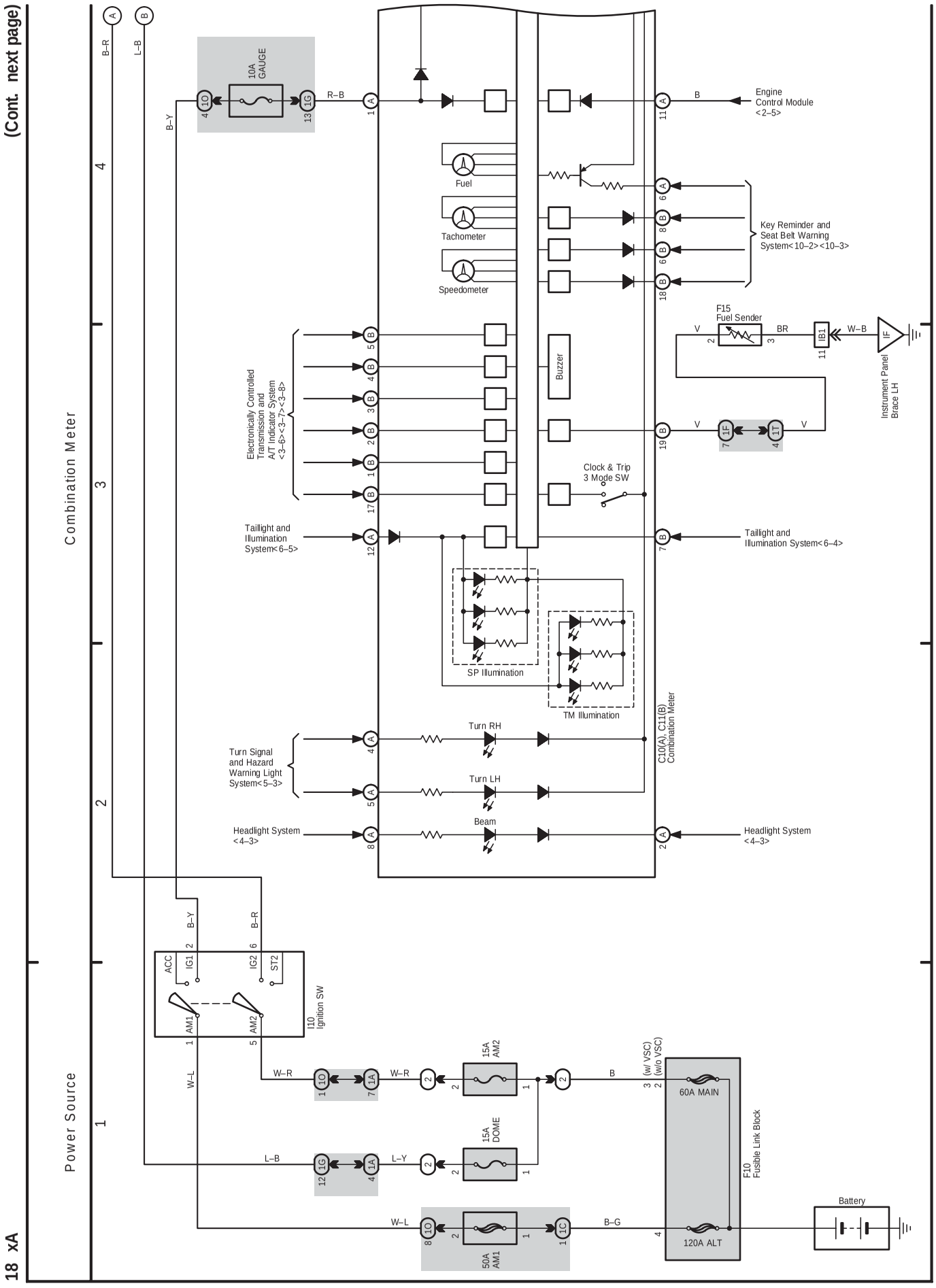
(Cont. next page)

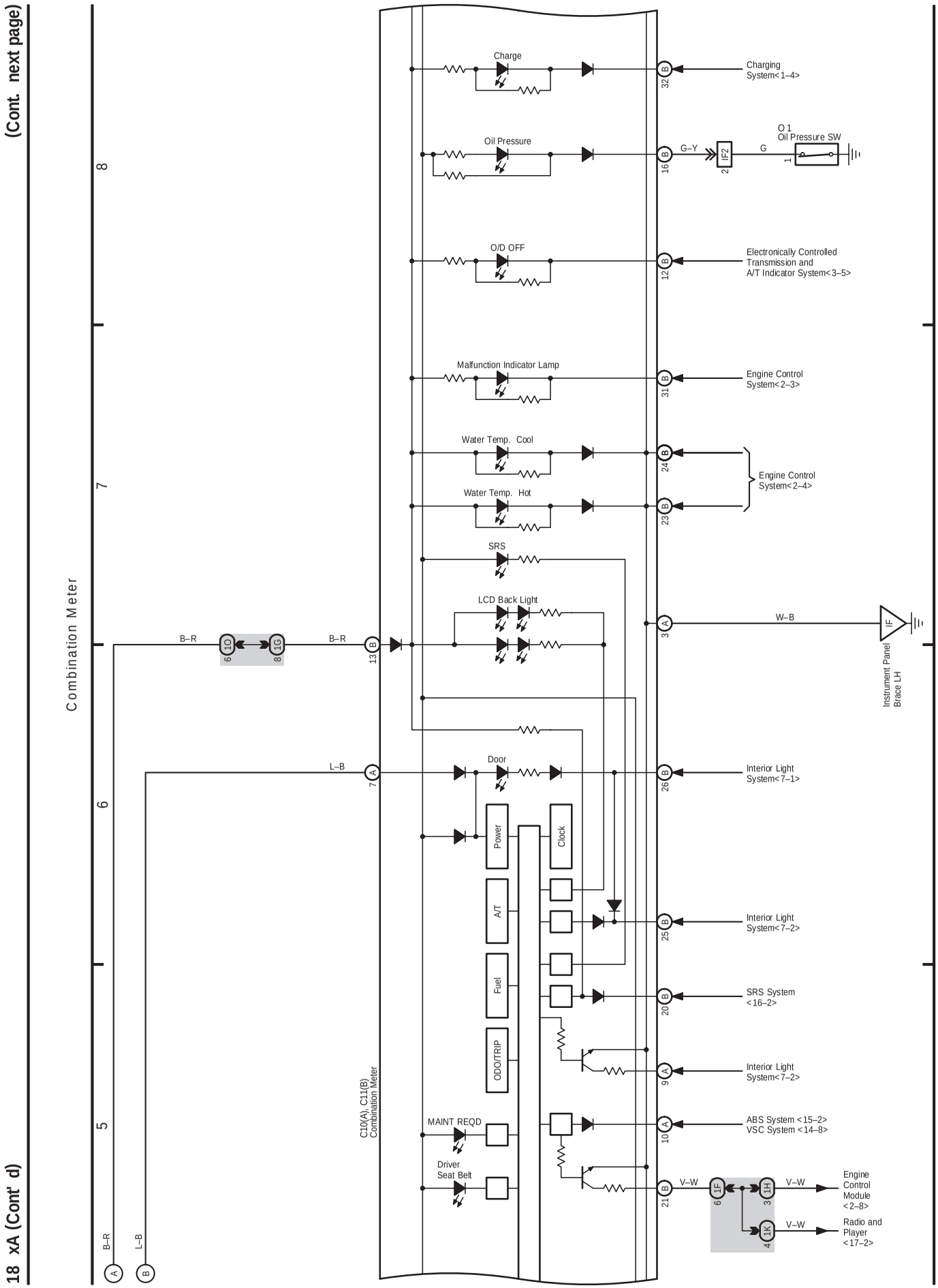


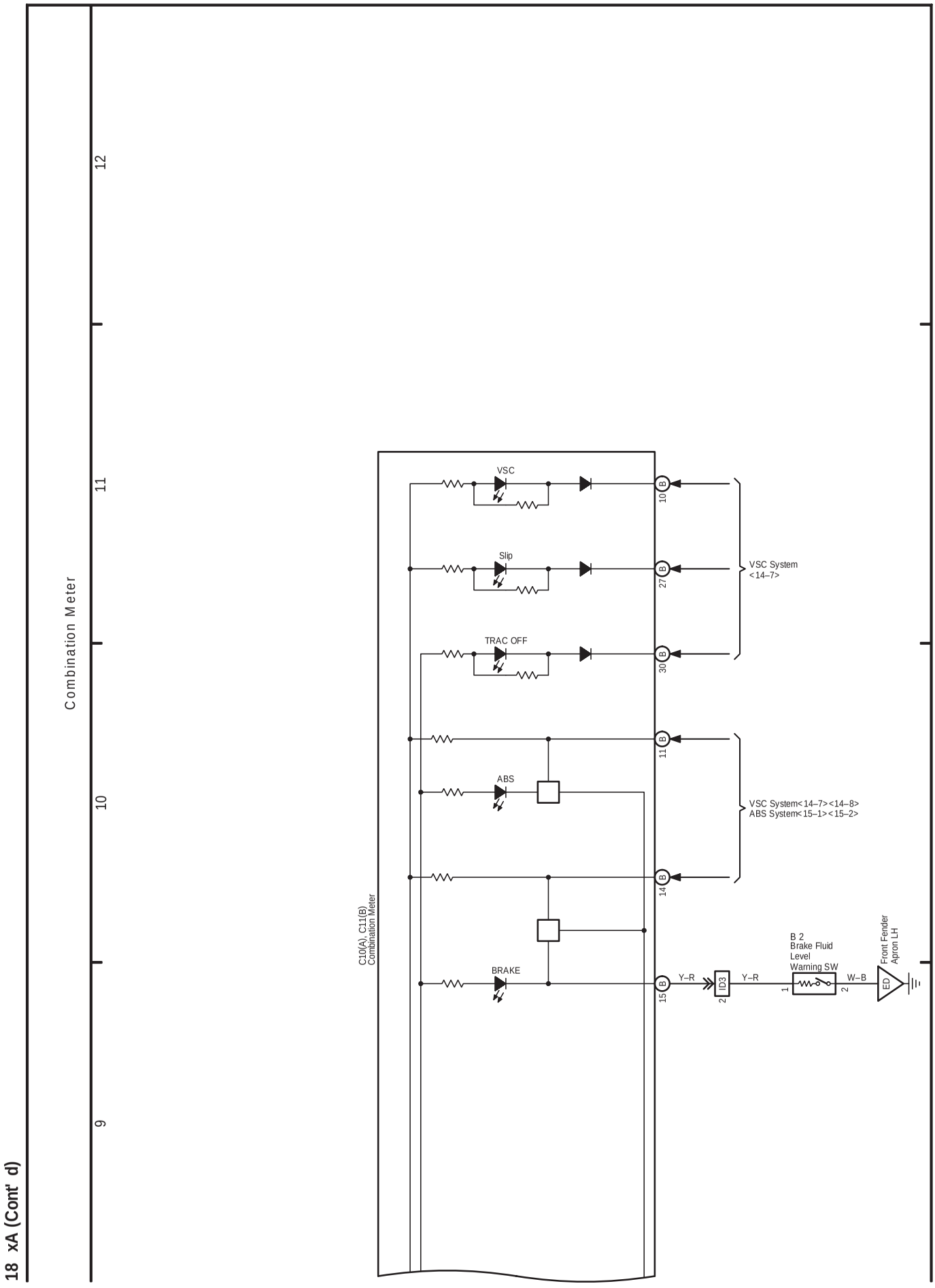
Audio System

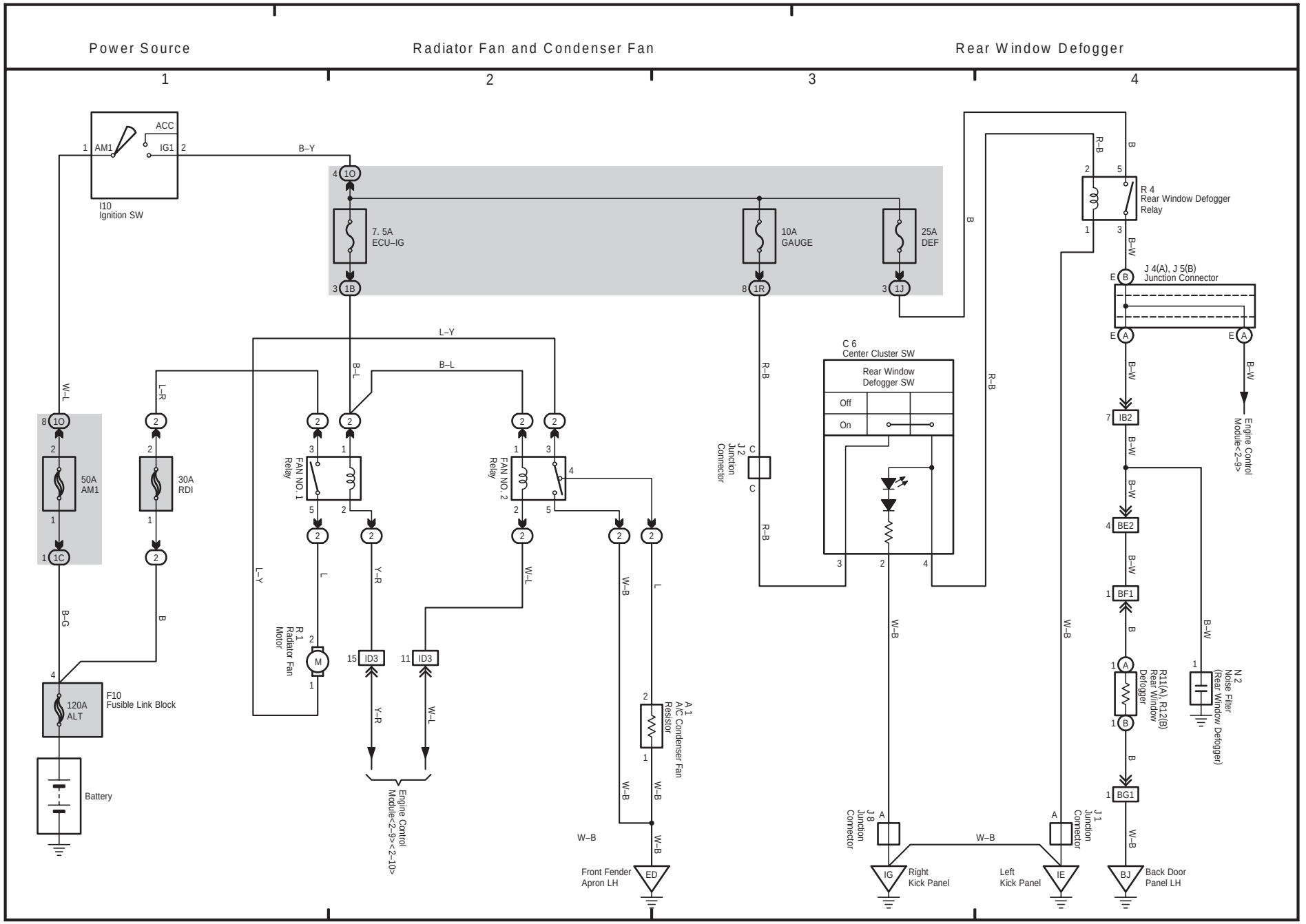
5 6 7 8



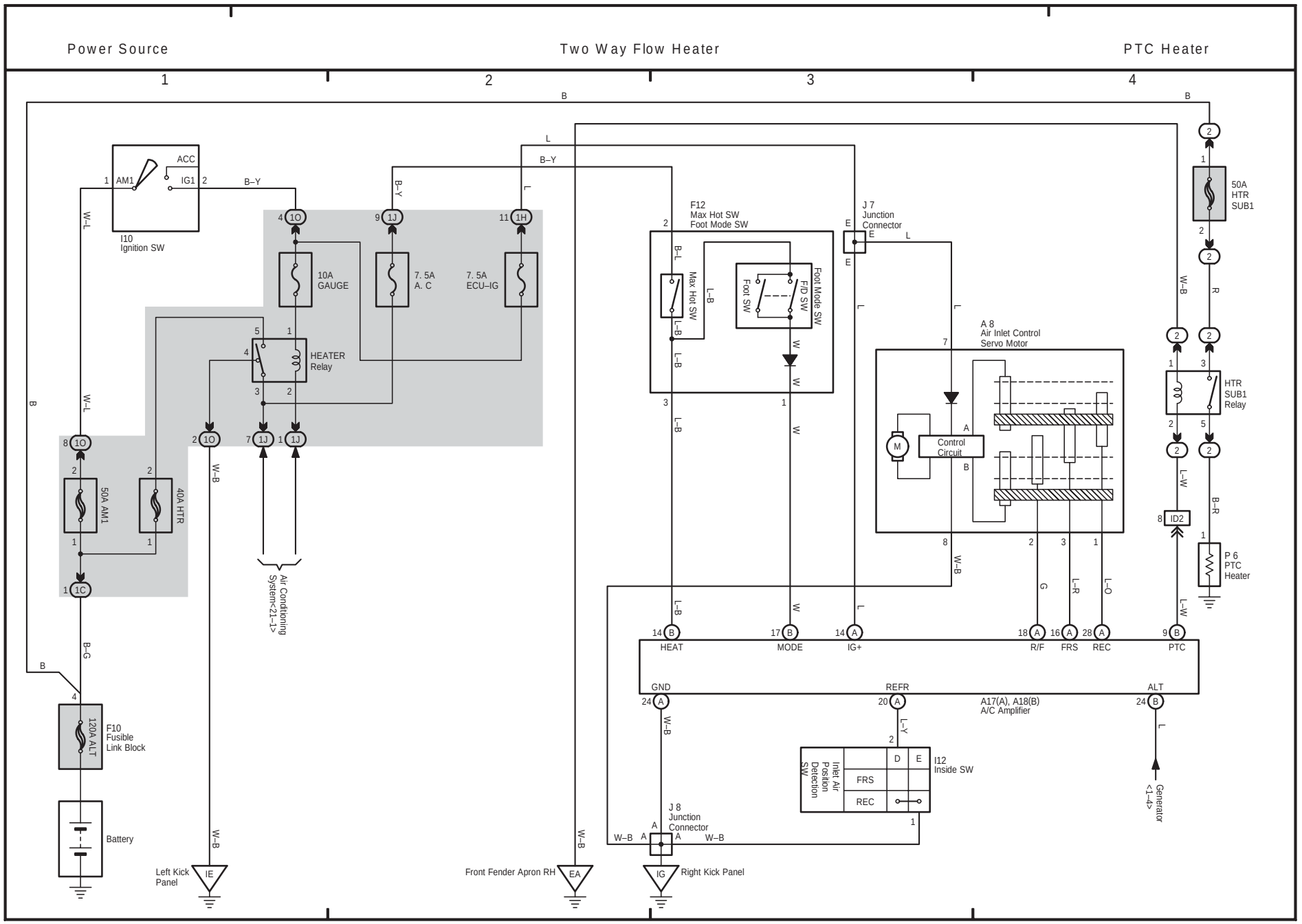

(Cont. next page)
Combination Meter
Power Source
18 xA
10A GAUGE
Engine Control Module <2–5>
Fuel
Tachometer
Speedometer
Key Reminder and Seat Belt Warning System<10–2><10–3>
F15 Fuel Sender
Instrument Panel Brace LH
Electronically Controlled Transmission and A/T Indicator System <3–6><3–7><3–8>
Buzzer
Clock & Trip 3 Mode SW
Taillight and Illumination System<6–5>
Taillight and Illumination System<6–4>
SP Illumination
TM Illumination
C10(A), C11(B) Combination Meter
Turn Signal and Hazard Warning Light System<5–3>
Turn RH
Turn LH
Beam
Headlight System <4–3>
I10 Ignition SW
15A AM2
15A DOME
50A AM1
60A MAIN
120A ALT
F10 Fusible Link Block
Battery

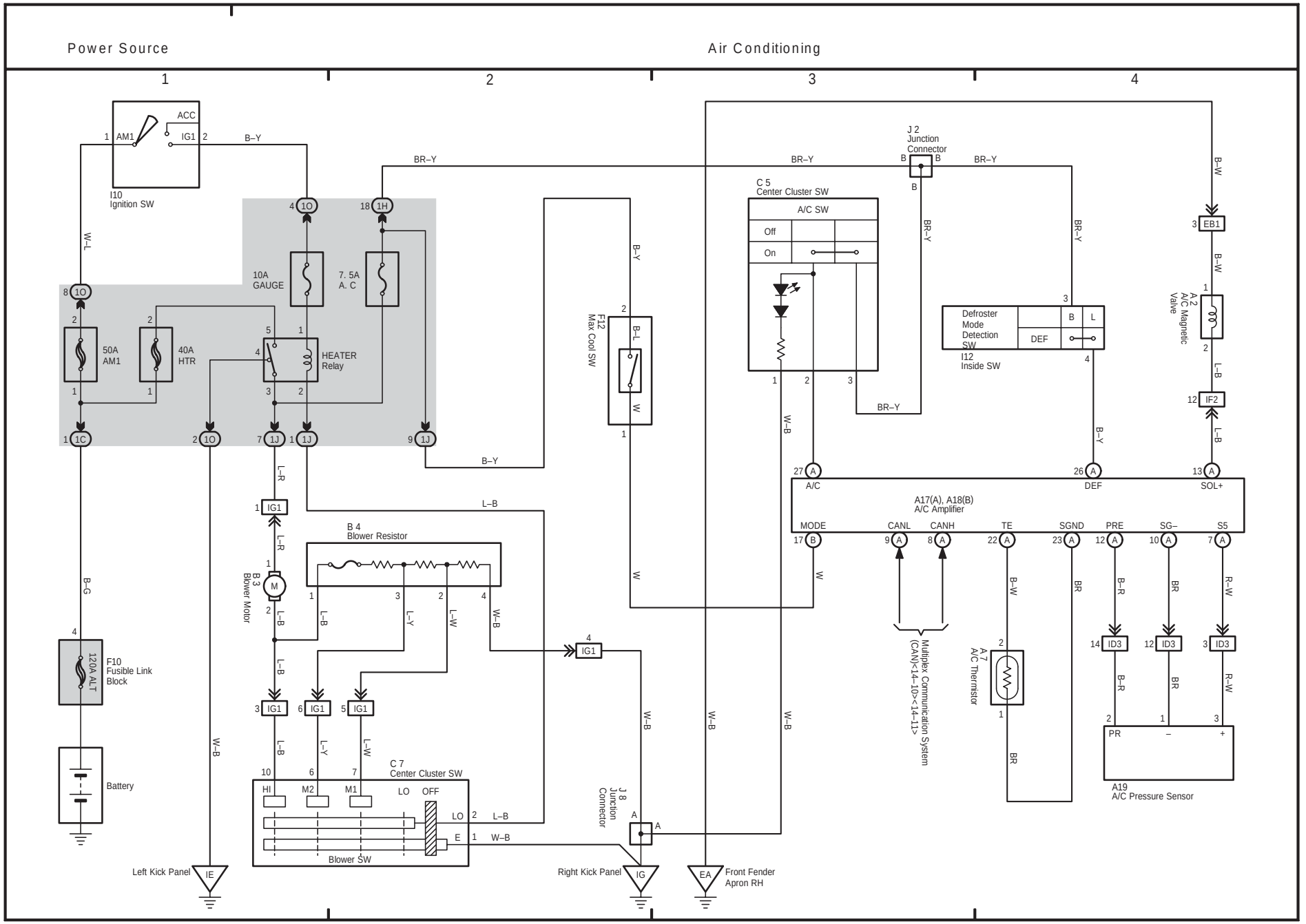

18 xA (Cont' d)
(Cont. next page)
Combination Meter
8
7
6
5
Charge
Charging System<1–4>
Oil Pressure
O1 Oil Pressure SW
G–Y
G
IF2
O/D OFF
Electronically Controlled Transmission and A/T Indicator System<3–5>
Malfunction Indicator Lamp
Engine Control System<2–3>
Water Temp. Cool
Water Temp. Hot
Engine Control System<2–4>
SRS
LCD Back Light
W–B
IF
Instrument Panel Brace LH
B–R
1O
1G
L–B
Door
Power
Clock
A/T
Fuel
ODO/TRIP
Interior Light System<7–1>
Interior Light System<7–2>
SRS System <16–2>
Interior Light System<7–2>
MAINT REQD
Driver Seat Belt
ABS System <15–2>
VSC System <14–8>
V–W
1F
1H
1K
Engine Control Module <2–8>
Radio and Player <17–2>
C10(A), C11(B) Combination Meter


12
11
10
9
Combination Meter
VSC
Slip
TRAC OFF
ABS
BRAKE
10 (B)
27 (B)
30 (B)
11 (B)
14 (B)
15 (B)
VSC System <14–7>
VSC System<14–7><14–8>
ABS System<15–1><15–2>
C10(A), C11(B)
Combination Meter
Y–R
2 ID3
Y–R
B 2
Brake Fluid
Level
Warning SW
1
2
W–B
ED
Front Fender
Apron LH
18 xA (Cont' d)


Power Source
Radiator Fan and Condenser Fan
Rear Window Defogger
1
2
3
4
ACC
AM1
IG1
I10
Ignition SW
B–Y
7. 5A
ECU–IG
10A
GAUGE
25A
DEF
L–Y
B–L
L–R
W–L
50A
AM1
30A
RDI
FAN NO. 1
Relay
FAN NO. 2
Relay
R 1
Radiator Fan
Motor
Y–R
W–L
L
W–B
B–G
B
F10
Fusible Link Block
120A
ALT
Battery
A 1
A/C Condenser Fan
Resistor
Engine Control
Module<2–9><2–10>
C 6
Center Cluster SW
Rear Window
Defogger SW
Off
On
J 2
Junction
Connector
R–B
R 4
Rear Window Defogger
Relay
J 4(A), J 5(B)
Junction Connector
B–W
IB2
BE2
BF1
BG1
R11(A), R12(B)
Rear Window
Defogger
N 2
Noise Filter
(Rear Window Defogger)
Engine Control
Module<2–9>
J 8
Junction
Connector
J 1
Junction
Connector
IG
Right
Kick Panel
IE
Left
Kick Panel
BJ
Back Door
Panel LH
ED
Front Fender
Apron LH

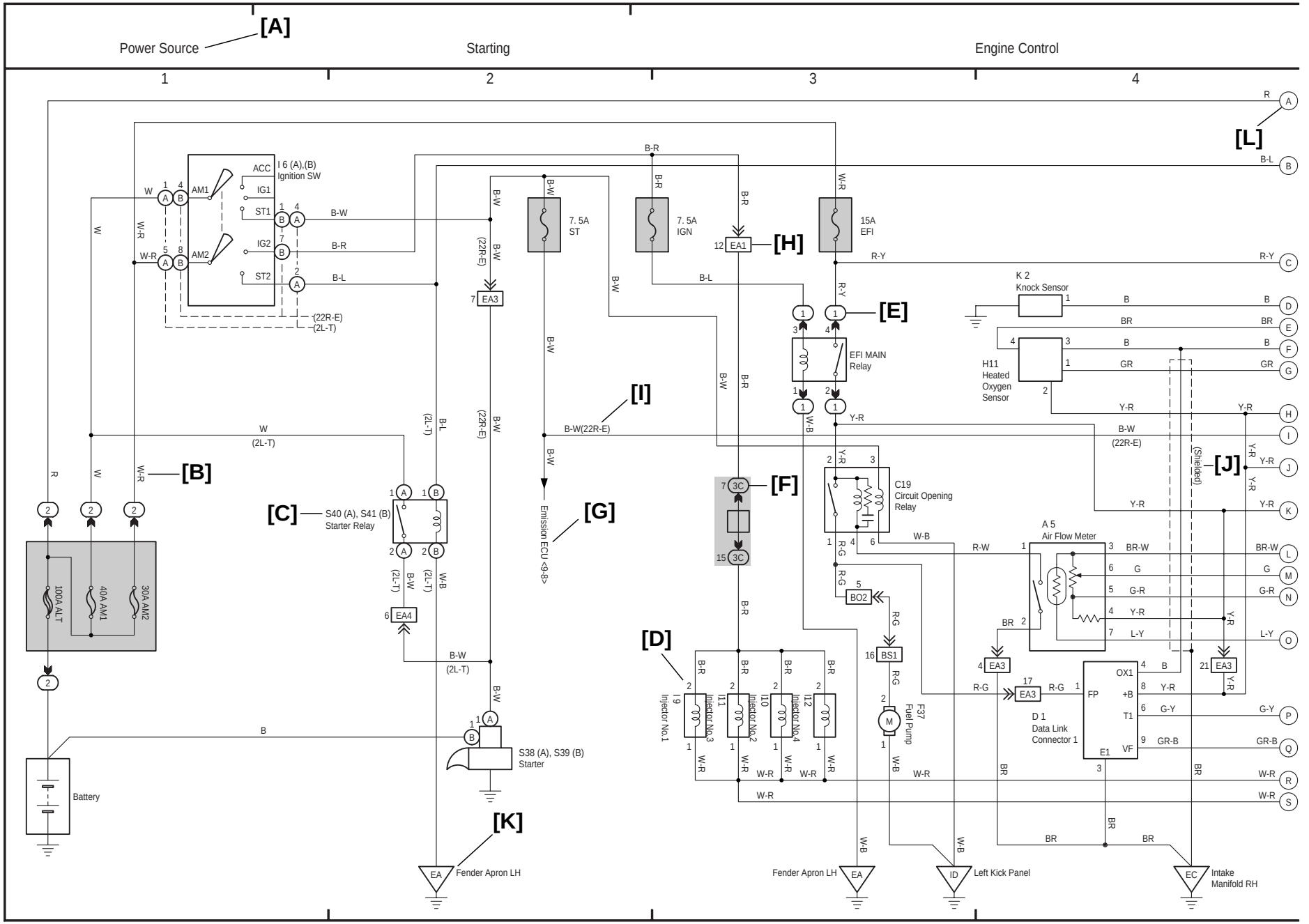
20 xA


Power Source
Two Way Flow Heater
PTC Heater
1
2
3
4
ACC
AM1
IG1
I10
Ignition SW
10A
GAUGE
7. 5A
A. C
7. 5A
ECU–IG
HEATER
Relay
50A AM1
40A HTR
F10
Fusible
Link Block
120A ALT
Battery
Left Kick
Panel
IE
Air Conditioning
System<21–1>
F12
Max Hot SW
Foot Mode SW
Max Hot SW
Foot SW
FID SW
Foot Mode SW
J 7
Junction
Connector
A 8
Air Inlet Control
Servo Motor
Control
Circuit
50A
HTR
SUB1
HTR
SUB1
Relay
ID2
P 6
PTC
Heater
HEAT
MODE
IG+
R/F
FRS
REC
PTC
GND
REFR
ALT
A17(A), A18(B)
A/C Amplifier
I12
Inside SW
Inlet Air
Position
Detection
SW
FRS
REC
J 8
Junction
Connector
Front Fender Apron RH
EA
IG
Right Kick Panel
Generator
<1–4>


Power Source
Air Conditioning
1
2
3
4
I10
Ignition SW
ACC
AM1
IG1
B–Y
W–L
10A
GAUGE
7. 5A
A. C
50A
AM1
40A
HTR
HEATER
Relay
F10
Fusible Link
Block
120A ALT
Battery
B–G
W–B
Left Kick Panel
IE
B 3
Blower Motor
B 4
Blower Resistor
L–R
L–B
L–Y
L–W
W–B
C 7
Center Cluster SW
HI
M2
M1
LO
OFF
Blower SW
F12
Max Cool SW
B–L
W
B–Y
J 8
Junction
Connector
Right Kick Panel
IG
EA
Front Fender
Apron RH
J 2
Junction
Connector
BR–Y
C 5
Center Cluster SW
A/C SW
Off
On
I12
Inside SW
Defroster
Mode
Detection
SW
DEF
A 2
A/C Magnetic
Valve
EB1
IF2
B–W
L–B
B–Y
A17(A), A18(B)
A/C Amplifier
A/C
DEF
SOL+
MODE
CANL
CANH
TE
SGND
PRE
SG–
S5
Multiplex Communication System
(CAN)<14–10><14–11>
A 7
A/C Thermistor
ID3
B–R
BR
R–W
A19
A/C Pressure Sensor
PR
–
+

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

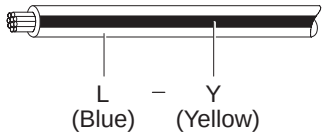
[B] : Indicates the wiring color.

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.

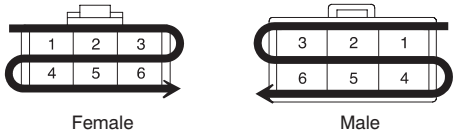
Example: L – Y



[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



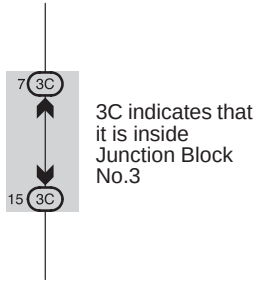
The numbering system for the overall wiring diagram is the same as above

[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

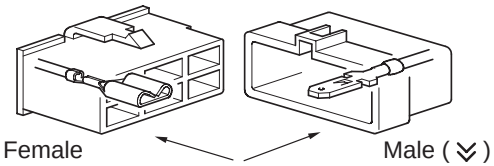
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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