

# A INTRODUCTION

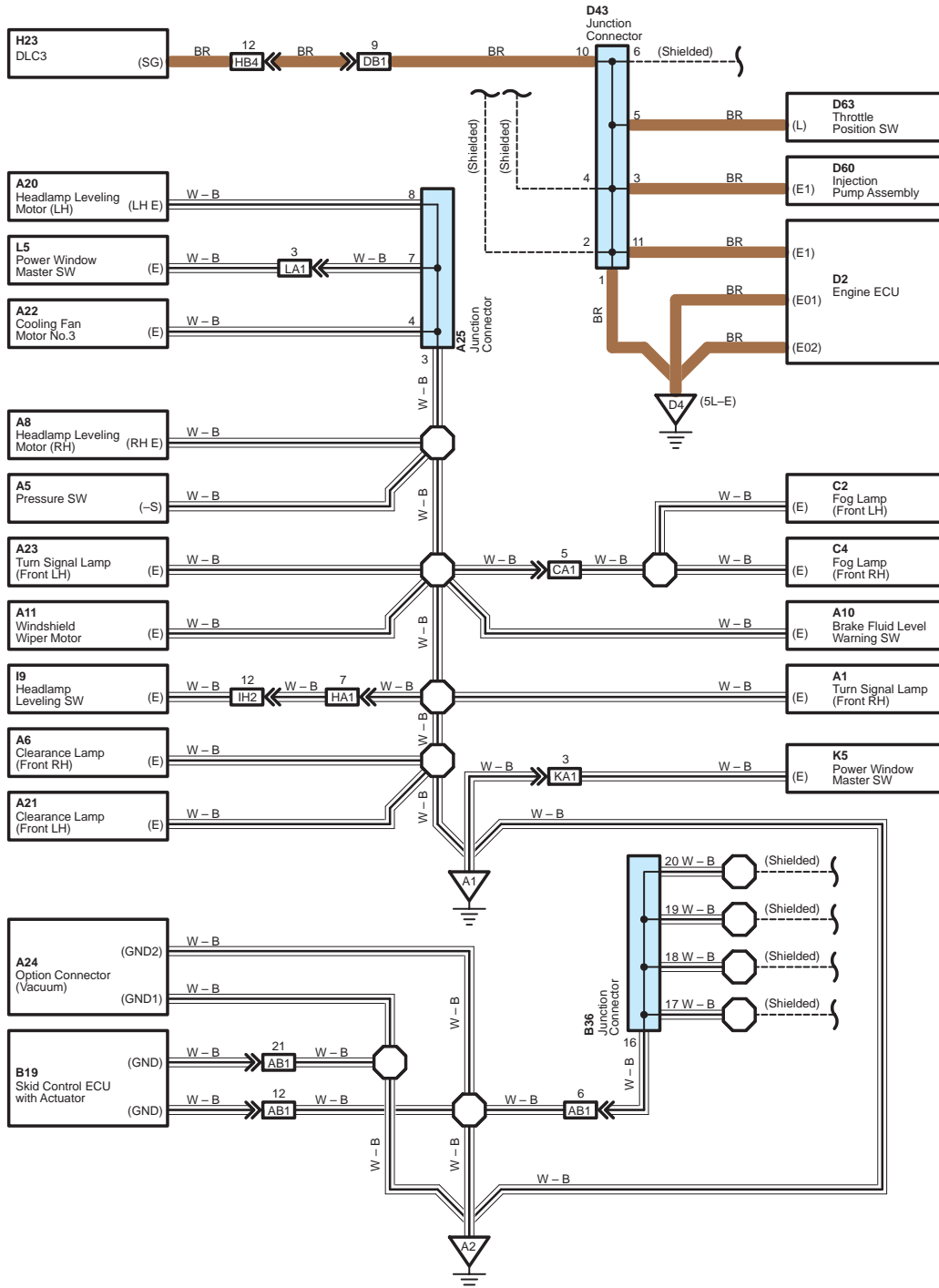
This manual consists of the following 13 sections:

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. (Only wiring information for complete circuits is included.)
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
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. (Only wiring information for complete circuits is included.)

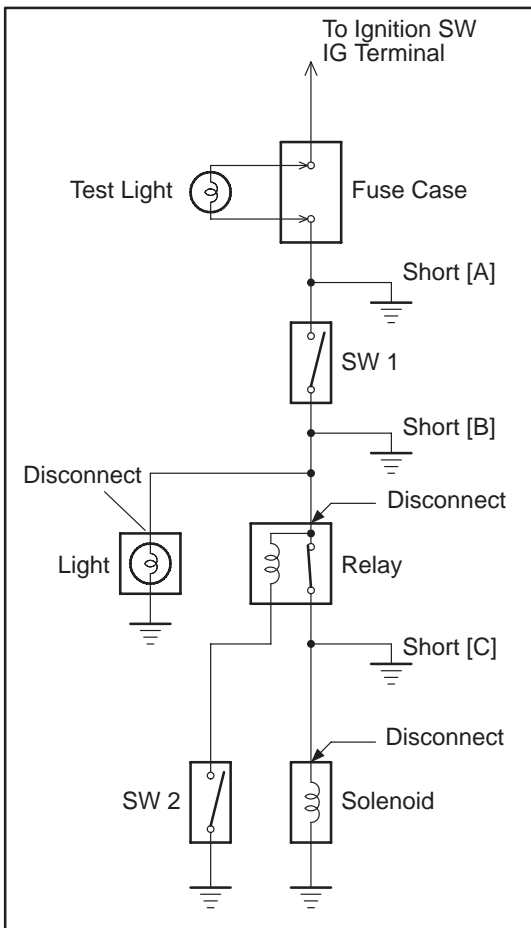
# B HOW TO USE THIS MANUAL

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 (  $\nabla A1$  ,  $\nabla A2$  and  $\nabla D4$  shown below) can also be checked this way.

## I GROUND POINT



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



## FINDING A SHORT CIRCUIT

- Remove the blown fuse and disconnect all loads of the fuse.
- Connect a test light in place of the fuse.
- 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)

- 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.
- Find the exact location of the short by lightly shaking the problem wire along the body.

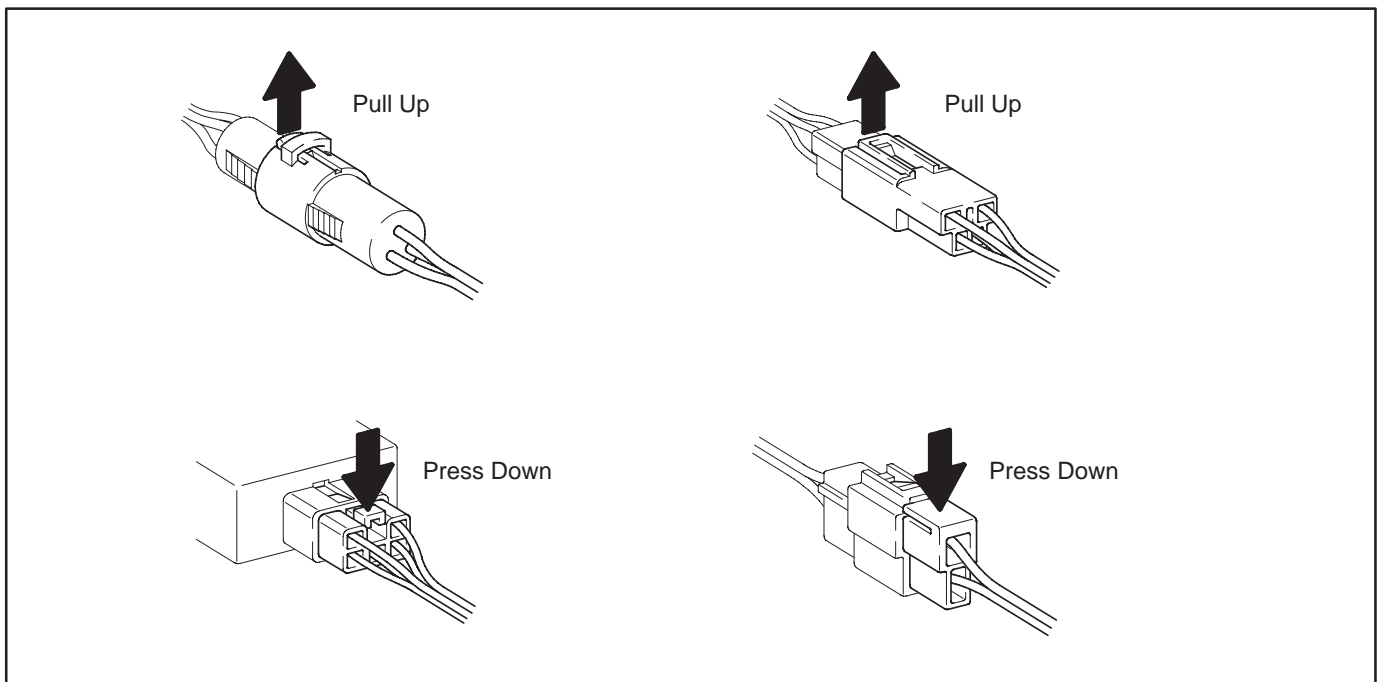
## CAUTION:

- 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.)
- 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.



**ABBREVIATIONS**

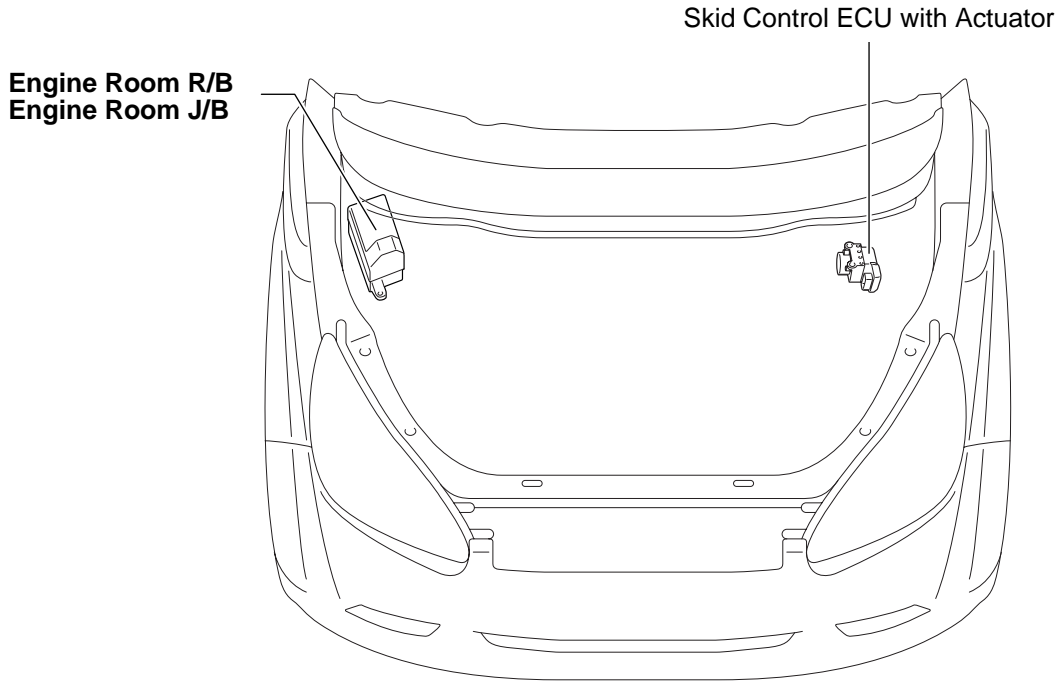
The following abbreviations are used in this manual.

A/C	=	Air Conditioner
A/T	=	Automatic Transaxle
ABS	=	Anti-Lock Brake System
CPU	=	Central Processing Unit
DLC3	=	Data Link Connector 3
ECT	=	Electronic Control Transmission
ECU	=	Electronic Control Unit
EFI	=	Electronic Fuel Injection
ESA	=	Electronic Spark Advance
FL	=	Fusible Link
INT	=	Intermittent
ISC	=	Idle Speed Control
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left-Hand
M/T	=	Manual Transaxle
R/B	=	Relay Block
RH	=	Right-Hand
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
VSV	=	Vacuum Switching Valve
VVT	=	Variable Valve Timing
w/	=	With
w/o	=	Without

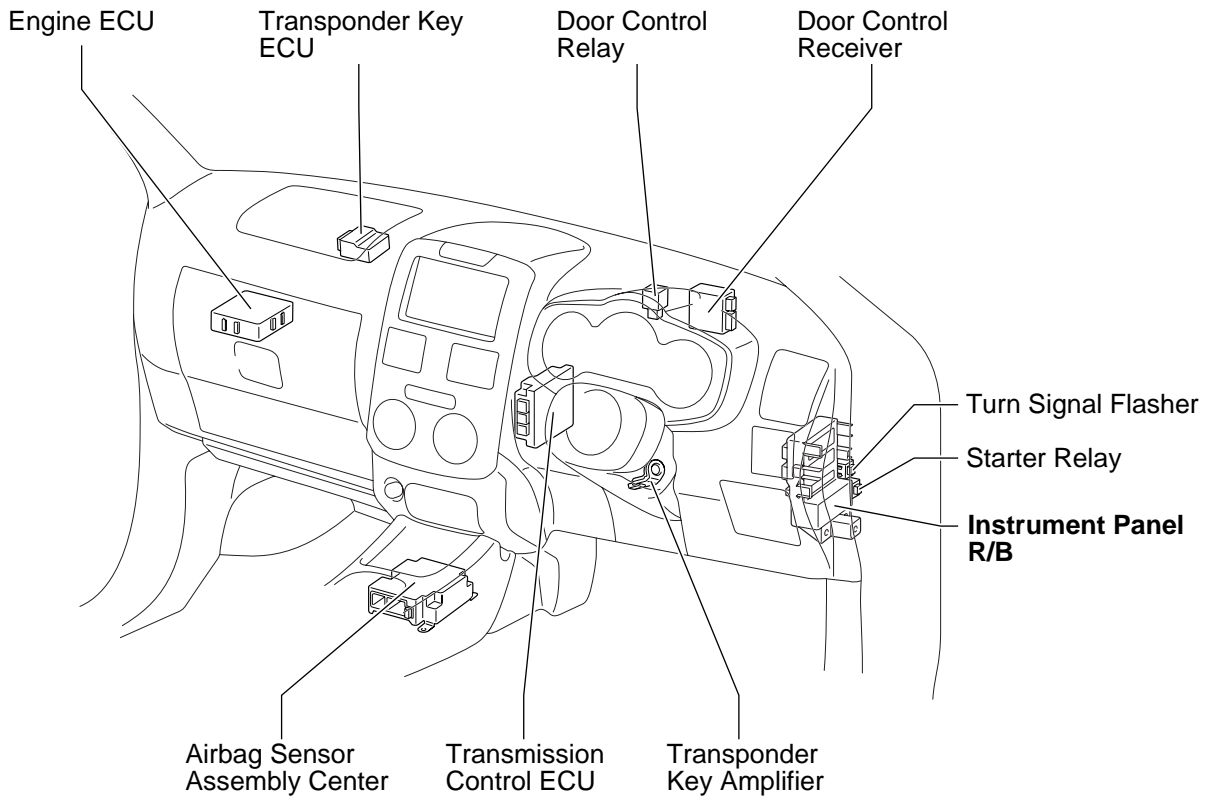
\* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

# F RELAY LOCATIONS

## [Engine Compartment]

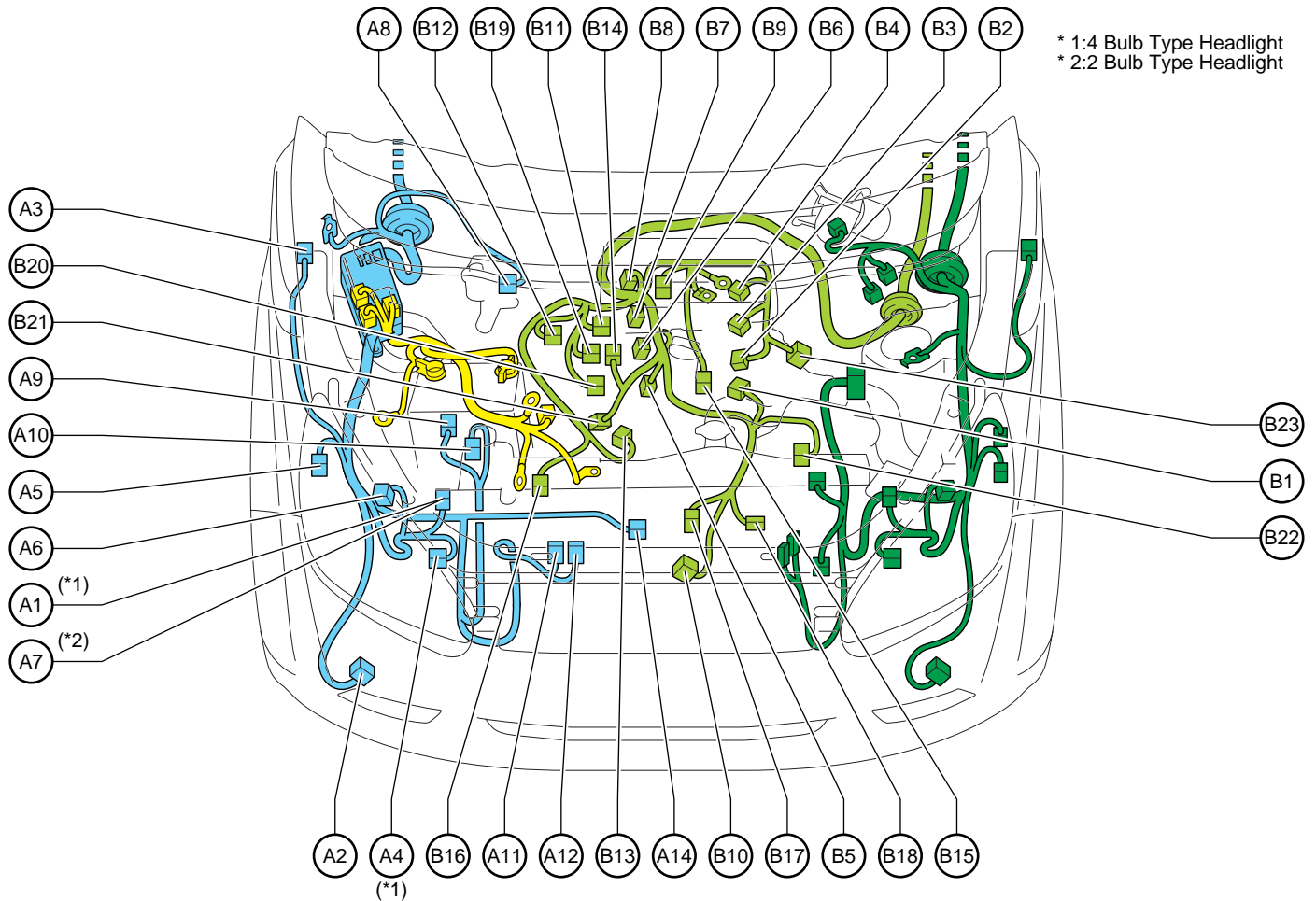


## [Instrument Panel]



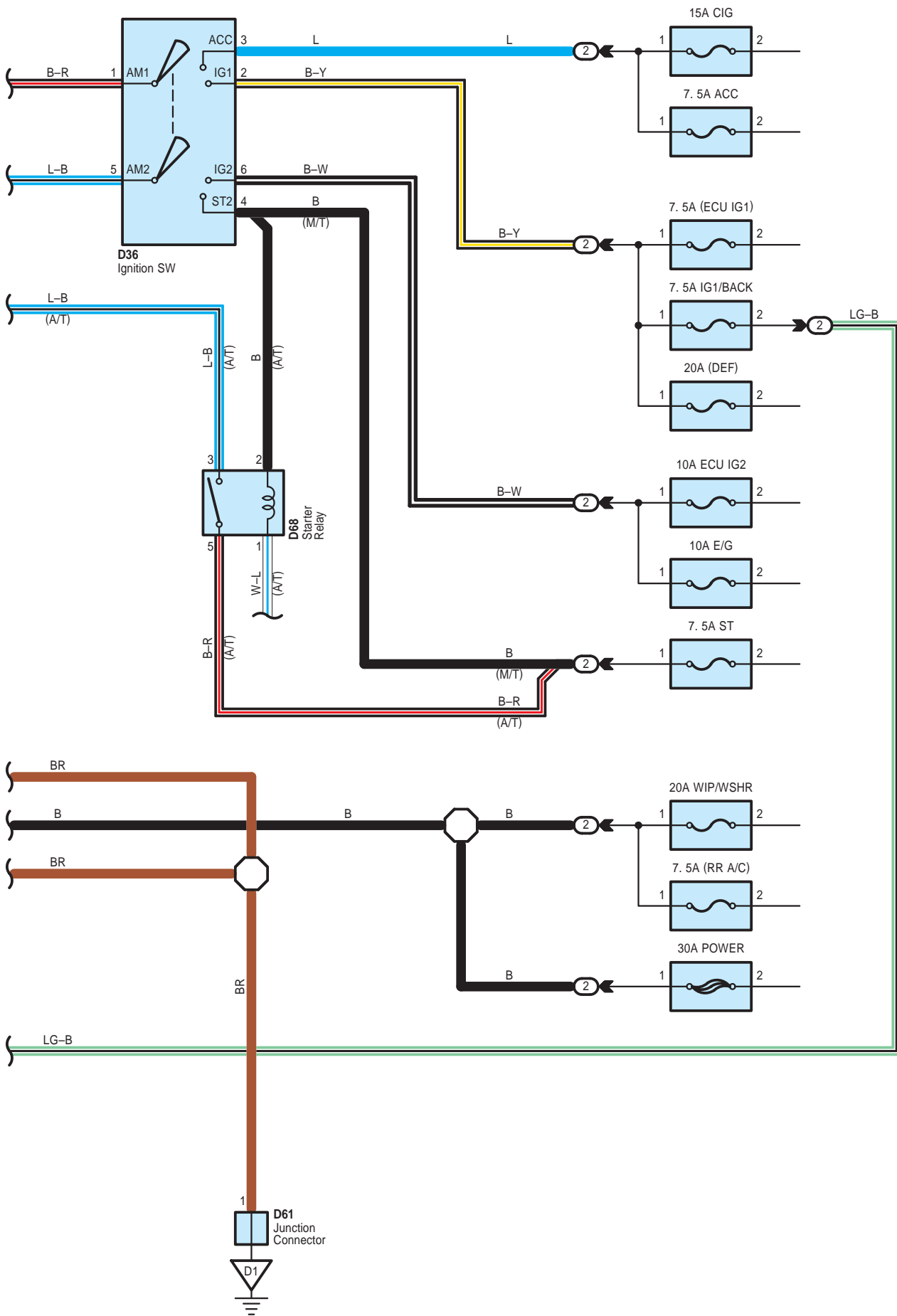
# G ELECTRICAL WIRING ROUTING

## Position of Parts in Engine Compartment



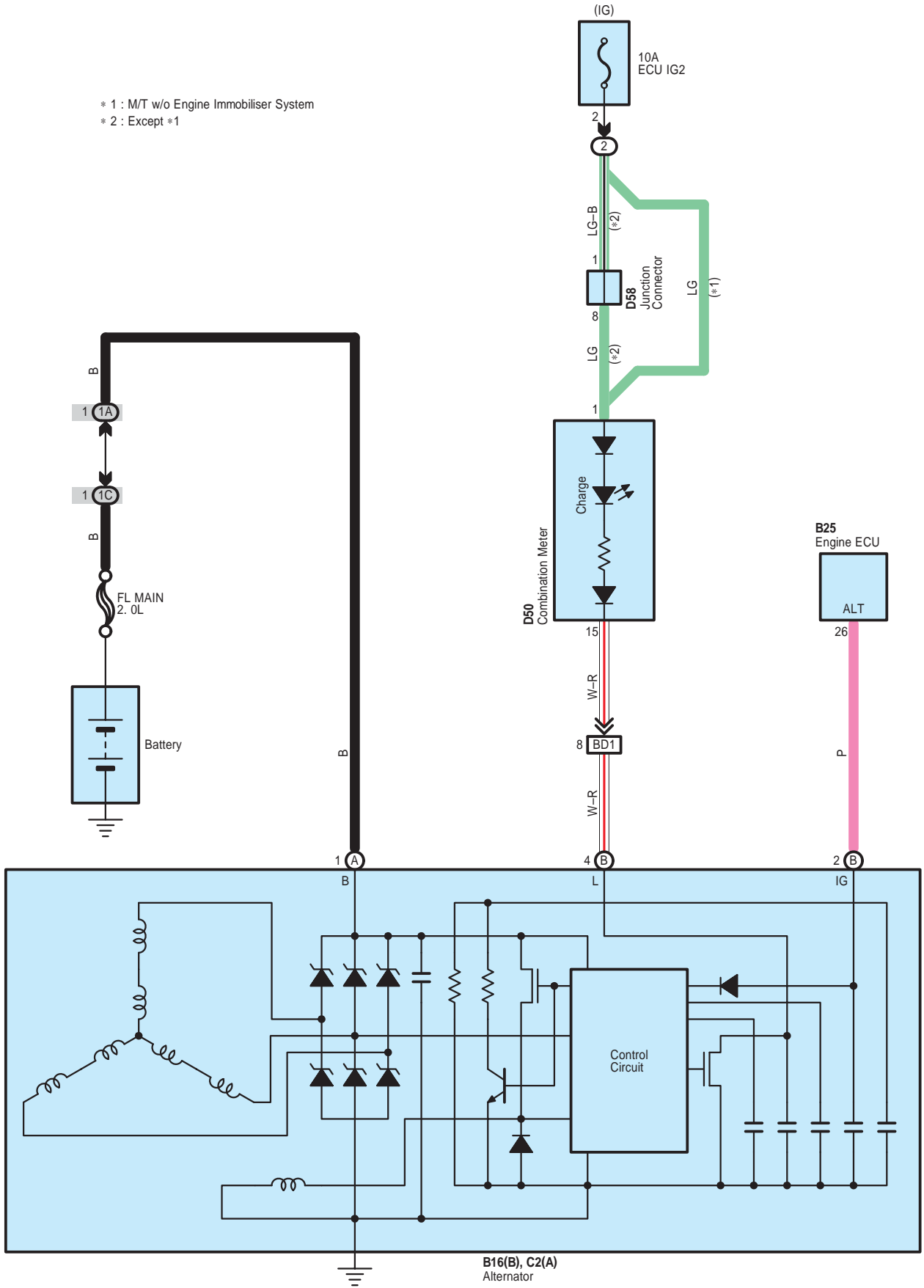
- A 1 Headlamp Assembly (RH)
- A 2 Fog Lamp (Front RH)
- A 3 Turn Signal Lamp (Front Side RH)
- A 4 Headlamp Assembly (RH)
- A 5 Turn Signal Lamp (Front RH)
- A 6 Clearance Lamp (Front RH)
- A 7 Headlamp (RH)
- A 8 Brake Fluid Level Warning SW
- A 9 Speed Sensor (Front RH)
- A 10 Airbag Sensor (Front)
- A 11 Horn (Low)
- A 12 Horn (Low)
- A 14 Radiator Fan Motor

- B 1 Ignition Coil (No.1)
- B 2 Ignition Coil (No.2)
- B 3 Ignition Coil (No.3)
- B 4 Ignition Coil (No.4)
- B 5 Fuel Injector (No.1)
- B 6 Fuel Injector (No.2)
- B 7 Fuel Injector (No.3)
- B 8 Fuel Injector (No.4)
- B 9 Camshaft Position Sensor
- B 10 Crankshaft Position Sensor
- B 11 Vacuum Sensor
- B 12 Throttle Body Assembly
- B 13 Knock Control Sensor
- B 14 Intake Air Temp. Sensor
- B 15 Water Temp. Sender Gage  
Water Temp. Sensor
- B 16 Alternator
- B 17 Engine Oil Pressure SW
- B 18 A/C Compressor
- B 19 Throttle Body ISC Valve
- B 20 VSV (Purge)
- B 21 Camshaft Timing Oil Control Valve
- B 22 Power Steering Oil Pressure SW
- B 23 Oxygen Sensor (Bank 1 Sensor 1)



# Charging

- \* 1 : M/T w/o Engine Immobiliser System
- \* 2 : Except \*1





# Engine Control

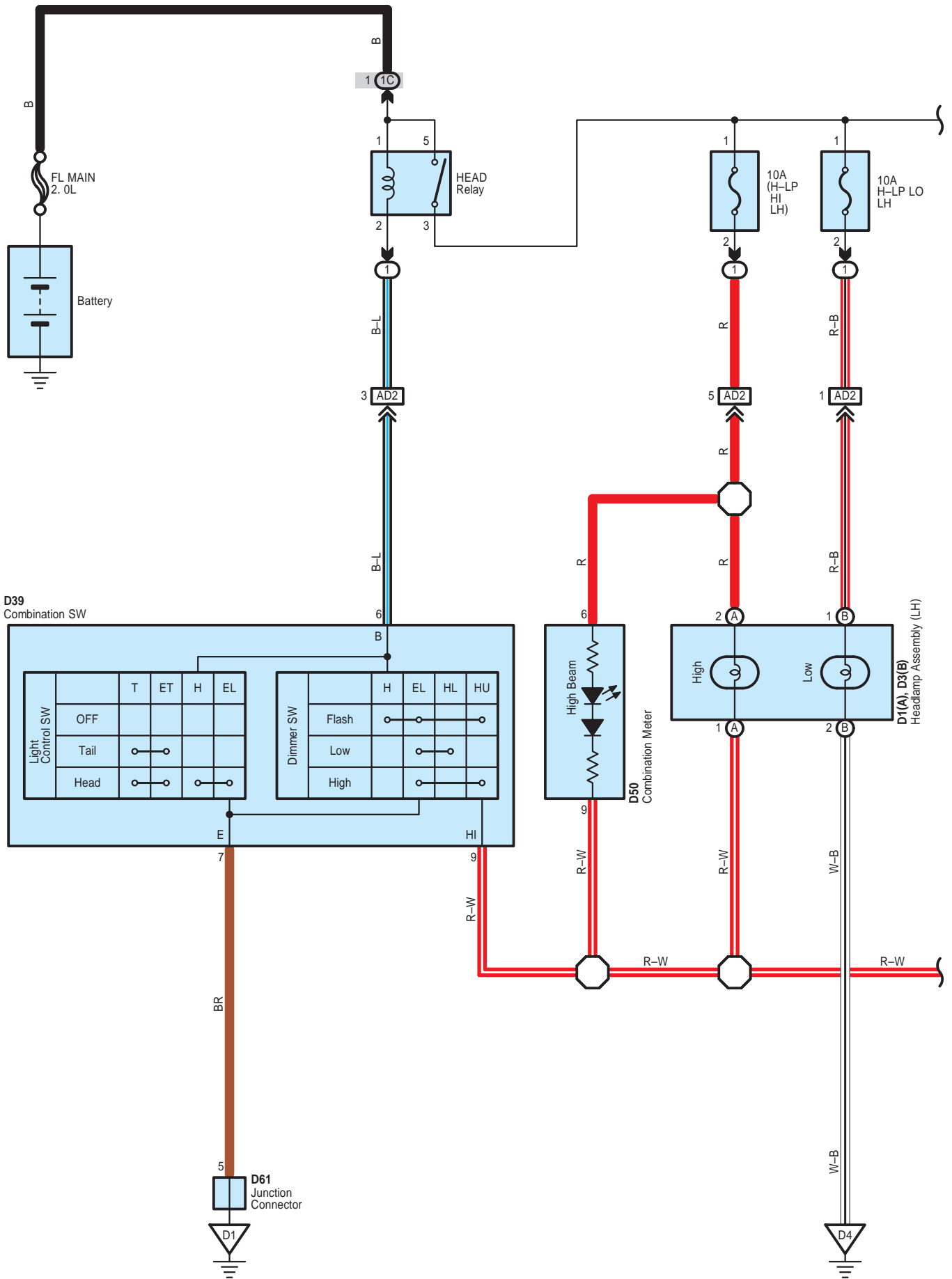
---



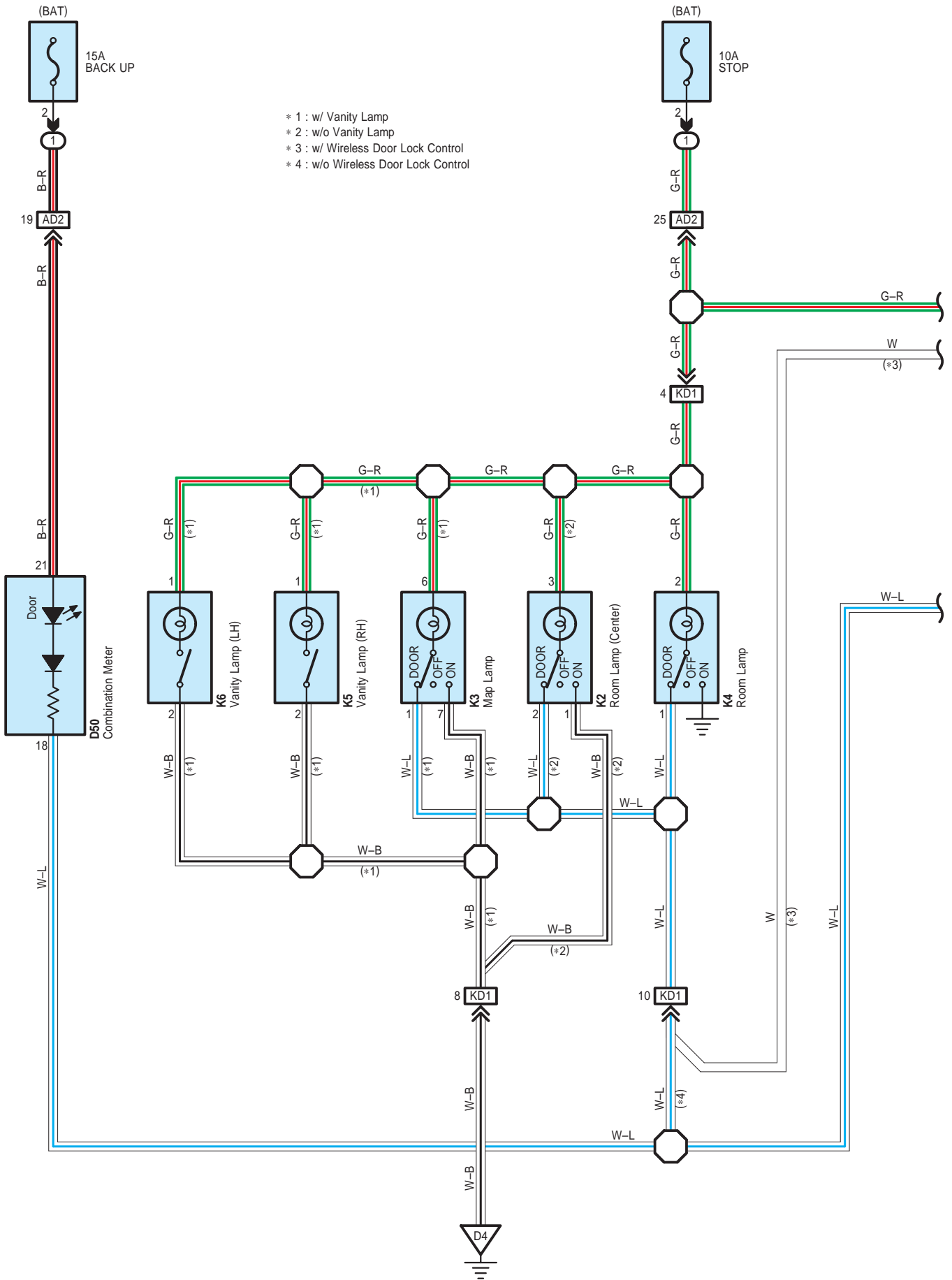
## : Ground Points

Code	See Page	Ground Points Location
B1	30	Rear Side of Engine Block
D1	31	Instrument Panel Brace LH
D4	30	Left Fender Apron
I1	32	Under the Right Rear Quarter Panel
I2	32	Under the Left Rear Quarter Panel

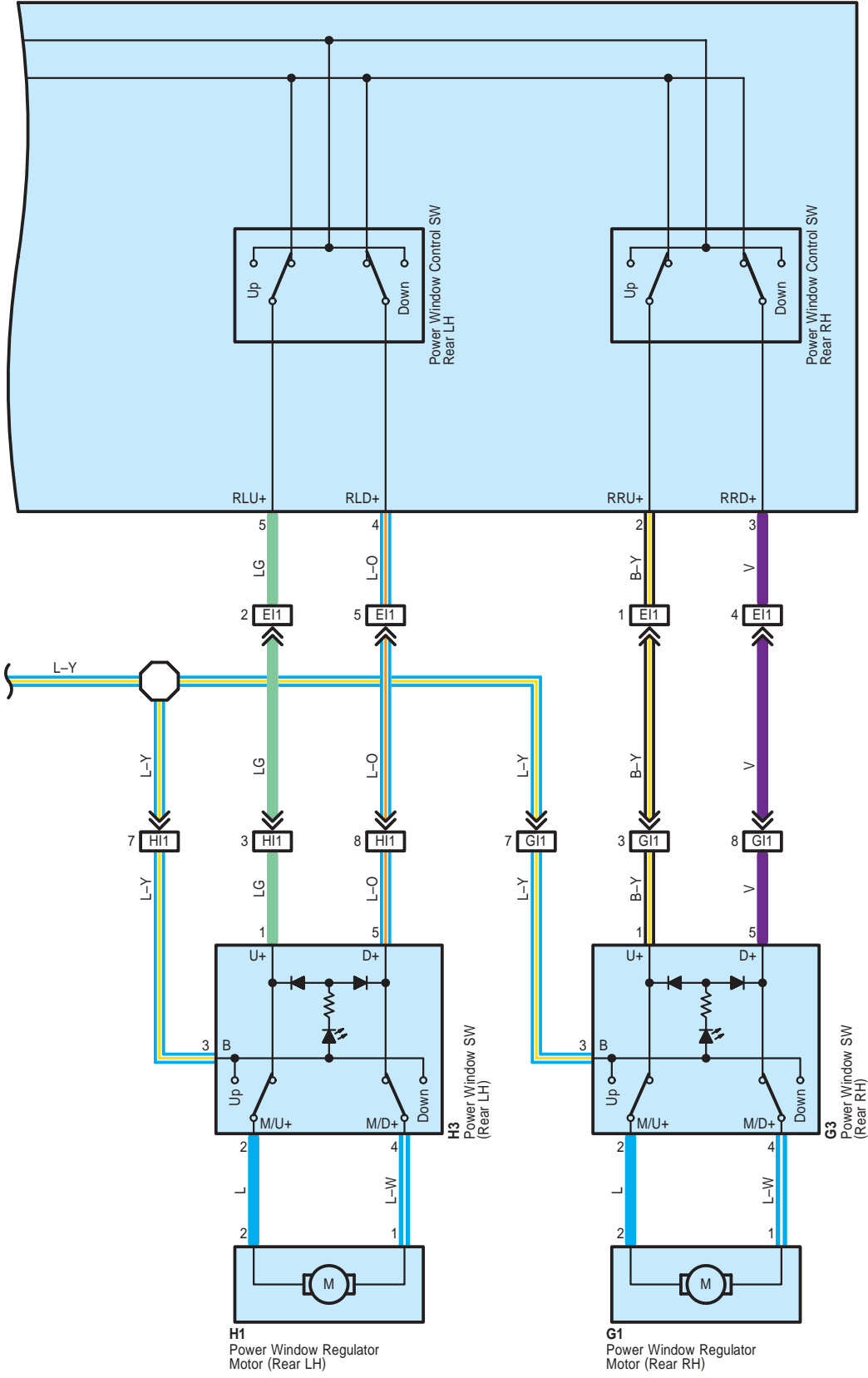
# Headlight for 4 Bulb Type



# Interior Light



**E4**  
Power Window Master SW



---

 : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
D29	26				

 : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Right)
2	23	Instrument Panel R/B (Right Kick Panel)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AD2	31	Engine Room Main Wire and Instrument Panel Wire (Right Side of the Instrument Panel)

 : **Ground Points**

Code	See Page	Ground Points Location
D4	30	Left Fender Apron

# I GROUND POINT

