

How to Use This Manual

General Information

This manual provides circuit information for each system of the vehicle by separating the circuit of each system.

Displays the actual wire harness for each system circuit from the battery power supply to the ground point. (All circuit diagrams show the switch in the normal state (normally on or normally off).)

When troubleshooting any fault, first understand the working condition of the circuit which the fault was detected (refer to the system circuit), the power supply to the circuit (refer to the power supply) and the ground point (refer to the ground point).

02 Start troubleshooting the faulty circuit to solve the cause of the fault when understanding working condition of the circuit. Use the sections “Fuse Box Relay Information” and “Wire Harness Location” for parts, wire harness, connectors, and ground points of each system circuit.

Each system circuit indicates the wire harness associated with the system by arrows. If you need to understand the overall connection, refer to the “Overall Circuit Diagram” at the end of this manual.

WARNING

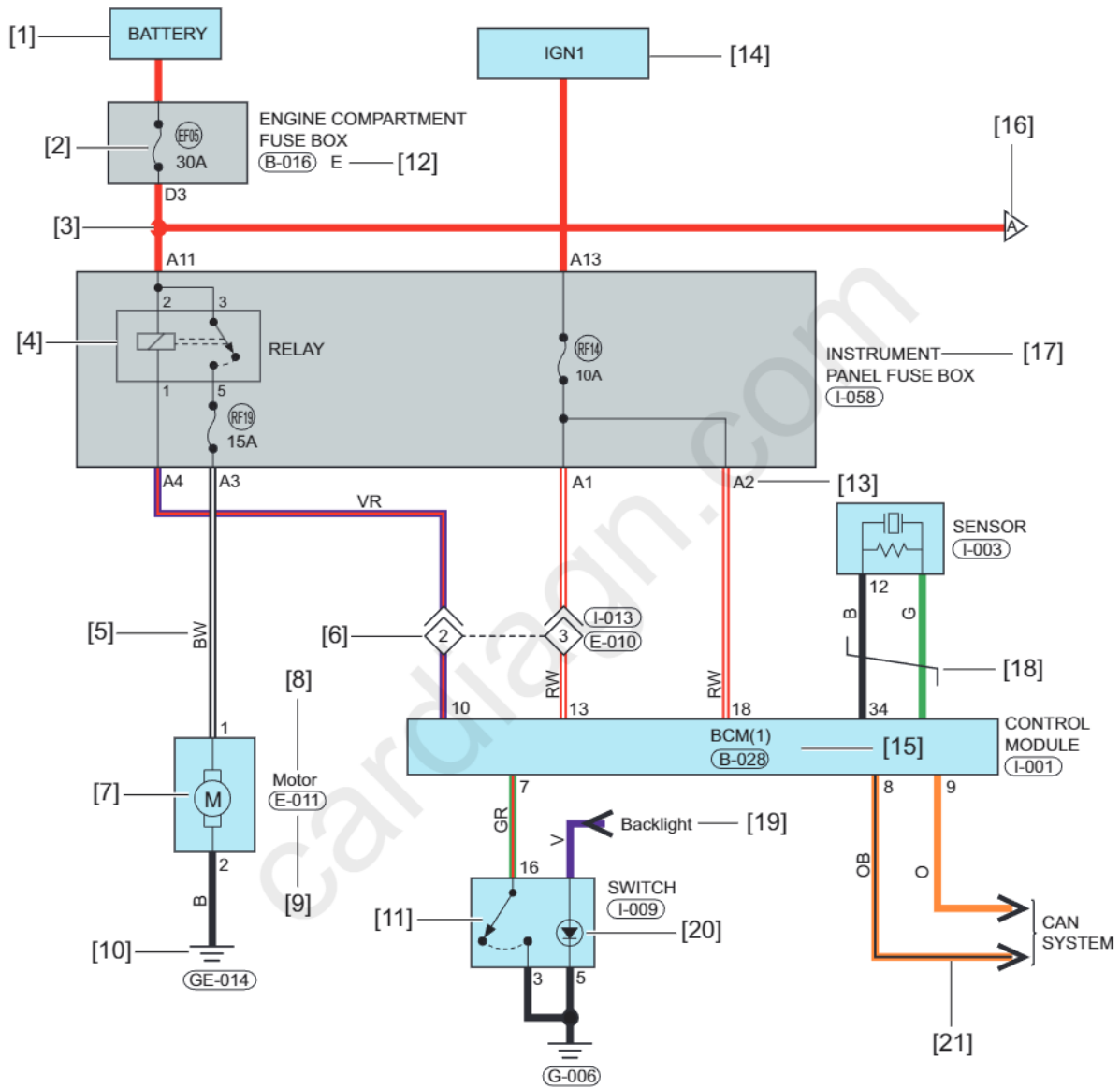
- The information in this manual is about wire harnesses. Information about components and assembly parts is for reference only. Please refer to the related repair manual.

Circuit Diagram Description

Provide circuit diagram to help technicians determine and detect vehicle faults efficiently.

Function and feature of circuit diagram:

- Power supply circuit is at the top of the page and the ground circuit is at the bottom.
- Display components (such as switches and fuses) as simple labels on a circuit diagram.



EWD001001

* The displayed circuit diagram shown here is an example only. It is different to the actual circuit shown in "System Circuit" section.

The following table is the symbol table defined in the circuit diagram.

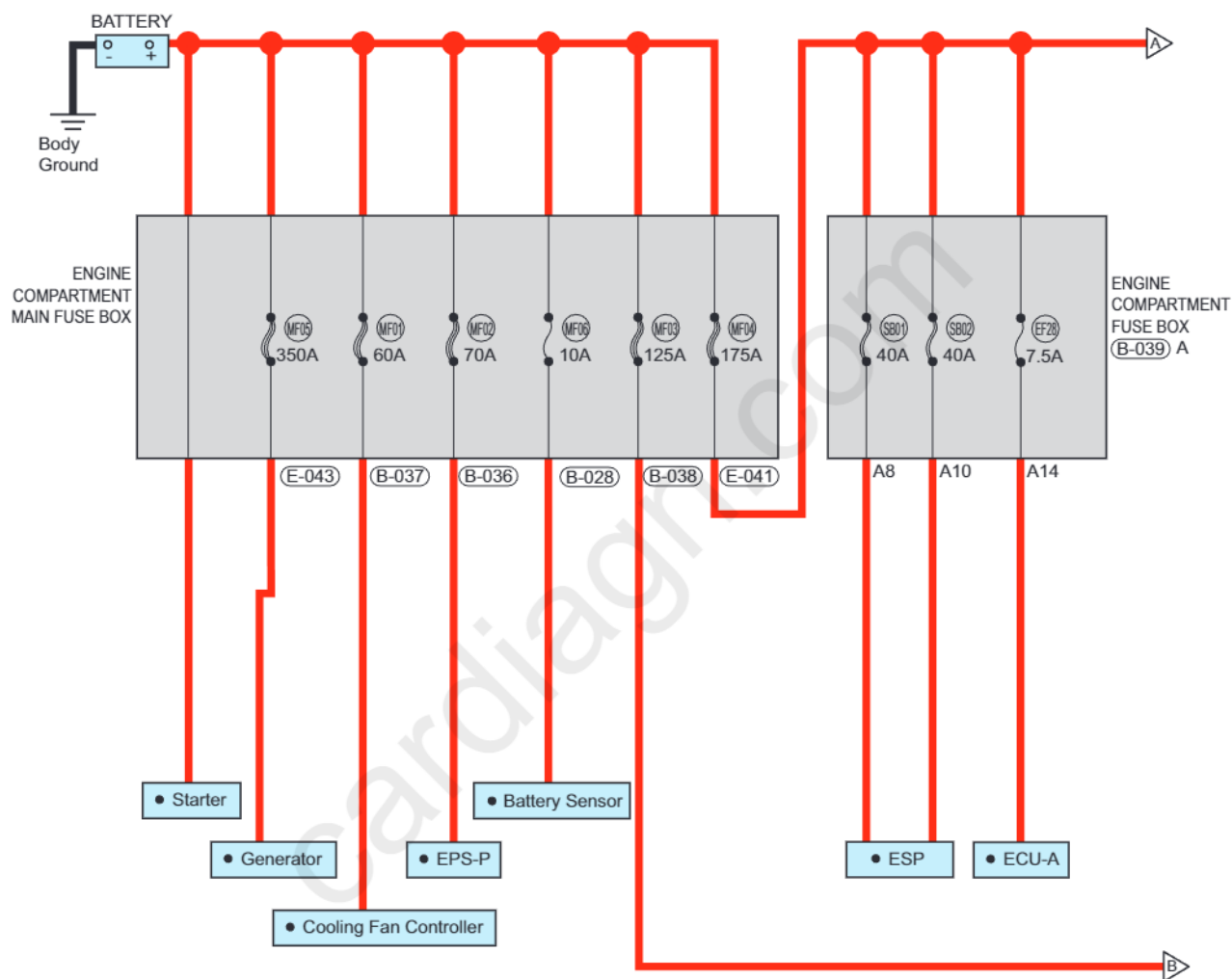
No.	Definition	Description
[1]	Battery	Indicates the power supply from positive battery to electrical equipment.
[2]	Fuse	This symbol indicates a fuse; “EF05” indicates the fuse number; “30A” indicates the rated current of the fuse.
[3]	Junction Point	A solid circle indicates a cross connection between the crossed wire harnesses.
[4]	Relay	This symbol indicates a relay; “MAIN RELAY” indicates the relay name; “1”, “2”, “3”, and “5”, or “85”, “86”, “87”, and “30” indicate the terminal number of relay.
[5]	Color	Indicates color of wire harness. The color code is as follows: B = Black; W = White; R = Red; G = Green; L = Blue; Y = Yellow; Br = Brown; O = Orange; Gr = Gray; P = Pink; V = Purple; Lg = Light Green. For example, “BrR” indicates that the primary color of the wire harness is brown and the secondary color is red.
[6]	Connector	Indicates the wire harness connector. “Λ” indicates female connector, “I-013” indicates the application number; “◇” indicates male connector, “E-010” indicates the application number. The numbers “2” and “3” on the inner side of male connector indicate the terminal number. “-----” indicates different terminals from the same wire harness connector.
[7]	Motor	This symbol indicates a motor.
[8]	Component Name	Indicates a component name.

No.	Definition	Description
[9]	Connector Code	“E-011” indicates the connector code of this component. The letter “E” indicates the wire harness code of connector in wire harness. The connector code is as follows: Q = Front Bumper Wire Harness; E = Engine Wire Harness; I = Instrument Panel Wire Harness; B = Interior Wire Harness; J = Rear Bumper Wire Harness; F = Front Left Door Wire Harness; H = Front Right Door Wire Harness; L = Rear Left Door Wire Harness; R = Rear Right Door Wire Harness; T = Back Door Wire Harness; K = A/C Wire Harness; D = Transmission Wire Harness. Y = HSD Connecting Wire Harness X = Display Connecting Wire Harness U = USB Connecting Wire Harness
[10]	Ground Point	Indicates ground point. For example, GQ-010, G indicates ground point, Q indicates the ground point on front bumper wire harness (different letters indicate the corresponding wire harness), and 010 indicates the number of ground point.
[11]	Switch	This symbol indicates a switch.
[12]	Fuse and Relay Box Connector	For example, B-015 E, that is connector B-015 named in this circuit diagram manual corresponds to connector E of real vehicle fuse and relay box.
[13]	Terminal Number	Indicates the connector terminal number of the component.
[14]	Ignition Switch	Indicates the power supply from ignition switch to electrical equipment.
[15]	Module Name	Indicates the module connectors stacked up and down and their corresponding connector numbers.
[16]	Connect to	Indicates the wire harness connected to the circuit diagram on next page. Letter “A” is connected to “A” in circuit diagram on next page.
[17]	Fuse and Relay Name	Indicates names of fuses and relays.
[18]	Twisted Wire	Indicates two wires are twisted.
[19]	Background Light Power Supply	Indicates illumination light power supply output from backlight adjustment switch.
[20]	LED	Used for indicator light, warning light or illumination light of switch or instrument cluster.
[21]	CAN	Indicates CAN wire harness in circuit diagram. Connected to CAN system.

Power Supply Description

“Power Distribution Center” section describes the parts that transmit current from each power supply. In the power supply circuit diagram, explains the situation that battery power supply to each system. Since all system circuit diagram start with the power supply, it is important to have a clear understanding of power distribution.

Example



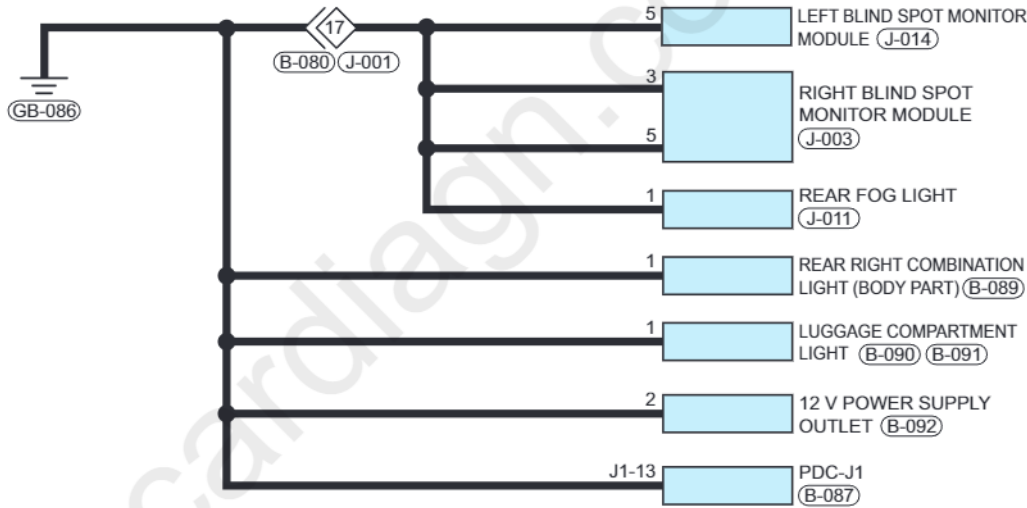
EWD003001

* The system shown here is used as an example only. It is different to the actual circuit shown in “Power Supply” section.

Ground Point Description

The ground point circuit diagram shows the connection from all major components to the corresponding ground point. When troubleshooting a fault ground point, check system circuits that use universal ground may help to quickly identify the faulty grounding. You can also use this method to check the connection between ground points.

Example

GROUND POSITION	PHYSICAL GRAPHICS
Right C-pillar Inner Plate	
	

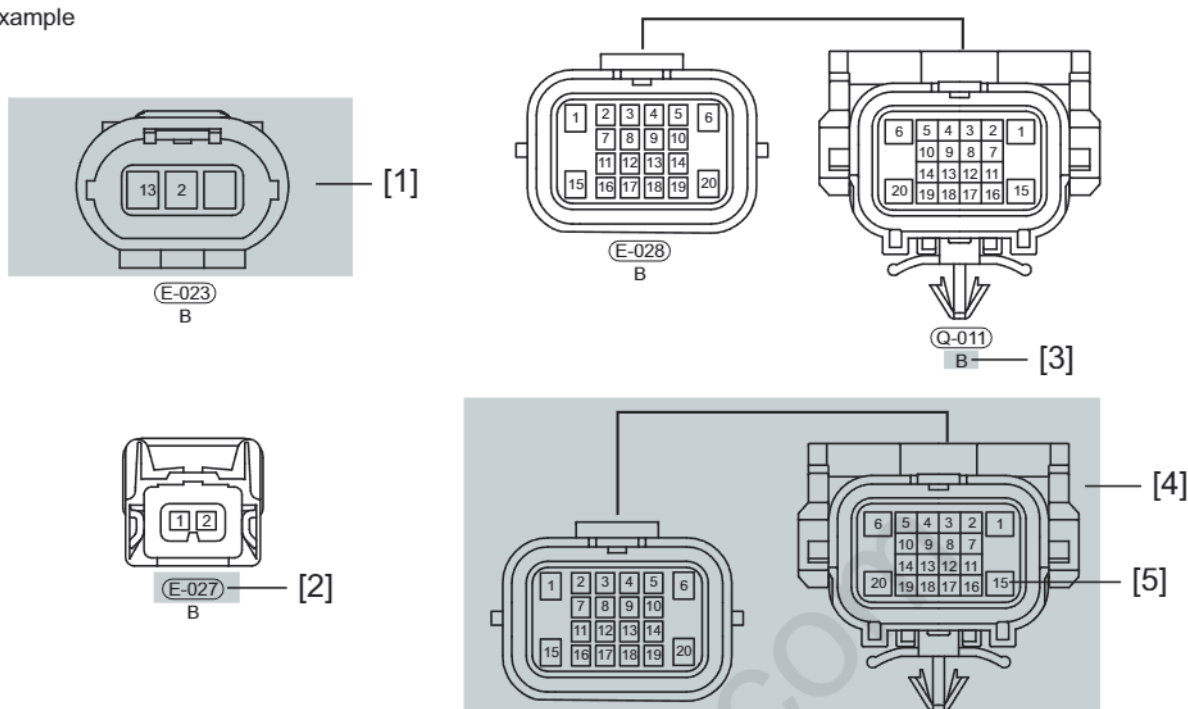
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EWD004001

* The system shown here is used as an example only. It is different to the actual circuit shown in "Ground Point" section.

Connector List Description

Example



EWD005001

No.	Definition	Description
[1]	Connector	It indicates the connector connected to the part. (This number indicates the terminal number.)
[2]	Connector code	It indicates the connector code.
[3]	Connector color	It indicates the connector color.
[4]	Wire harness connector	It indicates the shape of connector that combines the wire harness Left side: Shape of male connector Right side: Shape number of female connector indicates terminal number.
[5]	Terminal number	Numbers indicate terminal numbers. Numbering system for male and female connectors is different Example: Numbered sequentially from top left to bottom right Female Numbered sequentially from top right to bottom left Male

