

WIRE HARNESS

WIRE HARNESS INFORMATION	49-3	VEHICLE FUSE & RELAY	49-26
General Information	49-3	General Information	49-26
Description	49-3	Description	49-26
Circuit Diagram Information	49-3	Fuse & Relay	49-27
Circuit Diagram Instruction	49-4	Engine Compartment Fuse and Relay Box	49-27
Electrical Troubleshooting	49-7	Instrument Panel Fuse and Relay Box	49-28
Wire Harness Troubleshooting	49-7	BCM Fuse Box	49-29
Voltage Test	49-7		
Circuit Continuity Test	49-7	VEHICLE WIRE HARNESS LAYOUT	49-30
Short Circuit Test	49-7	General Information	49-30
Electrical Troubleshooting Tools	49-8	Description	49-30
Electrical Repair	49-9	Vehicle Wire Harness Layout	49-31
Wire Harness Repair	49-9	Entire Vehicle Wire Harness Layout	49-31
Fuse Replacement	49-9	Engine Wire Harness	49-32
Electrical Components	49-10	Engine Compartment Wire Harness	49-34
VEHICLE POWER DISTRIBUTION	49-12	Instrument Panel Wire Harness	49-36
General Information	49-12	Body Wire Harness	49-39
Description	49-12	Front Left Door Wire Harness	49-42
Circuit Diagram	49-13	Front Right Door Wire Harness	49-43
Power Distribution	49-13	Rear Left Door Wire Harness	49-44
VEHICLE GROUND DISTRIBUTION	49-21	Rear Right Door Wire Harness	49-45
General Information	49-21	Rear Bumper Wire Harness	49-46
Description	49-21	A/C Wire Harness	49-47
Circuit Diagram	49-22	Battery Positive/Negative Wire Harness	49-48
Ground Distribution	49-22	Roof Wire Harness	49-49
		Defroster Negative Wire Harness	49-50

WIRE HARNESS INFORMATION

General Information

Description

The wire harness information contains basic introductions of circuit diagrams, inspection methods of cables and connectors, as well as layout of connector positions and wire harness positions, etc.

Circuit Diagram Information

The circuit diagrams are classified into each chapter in Service Manual. If a component appears in a specific system, its related information (such as wire harness, connector and terminal, etc.) will appear in the circuit diagram and be introduced in detail. For example, the information of Engine Control Module (ECM) is mainly introduced in chapter 6. If the component wire harnesses involve other systems, the component information will also appear in the corresponding systems.

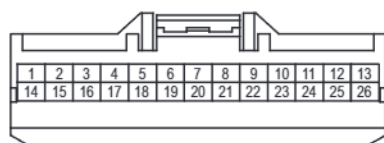
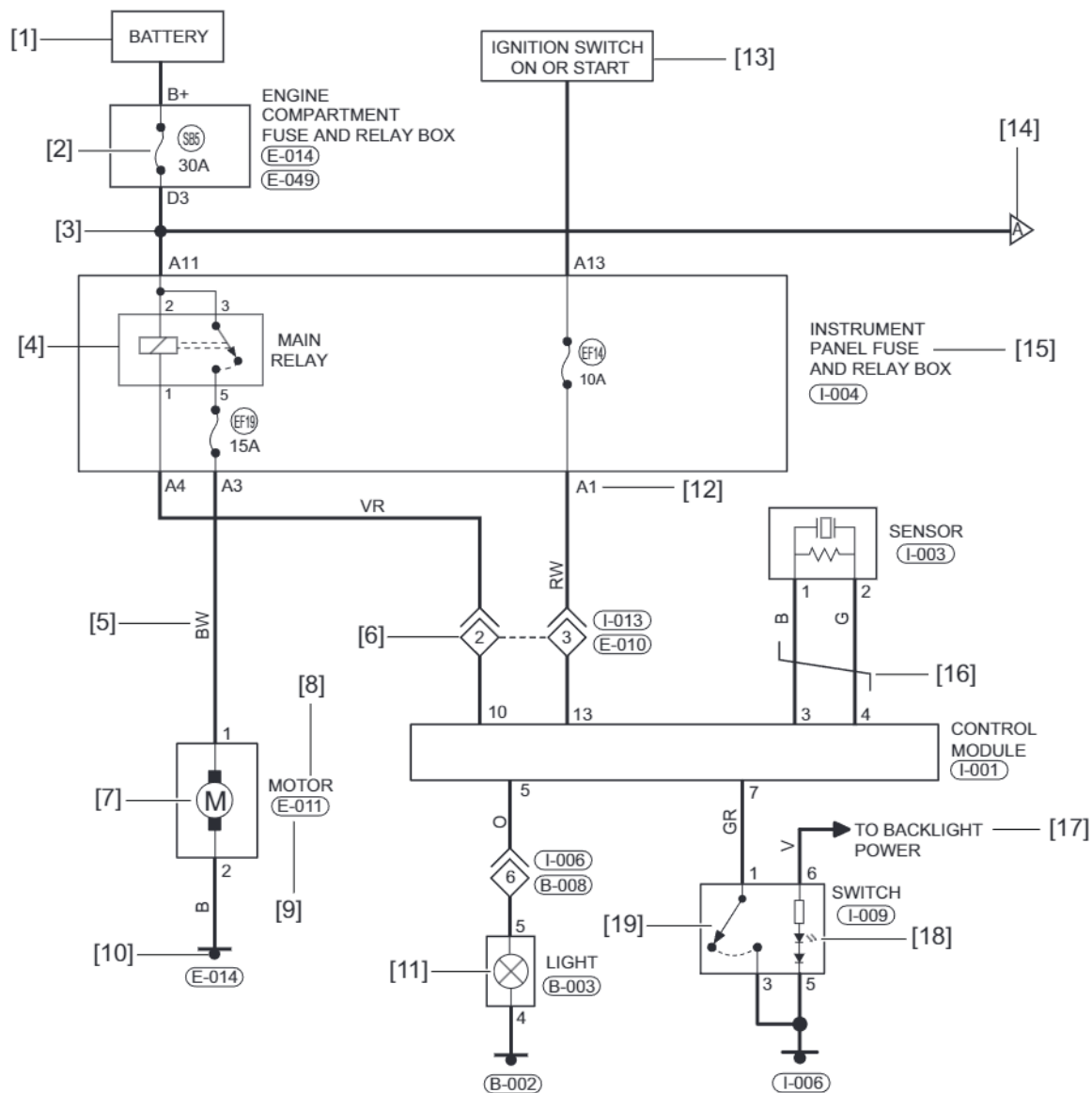
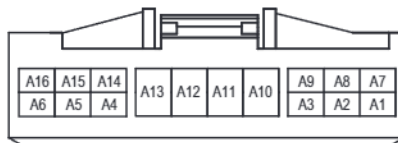
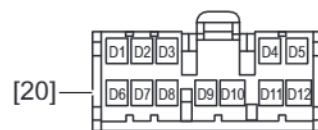
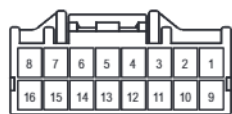
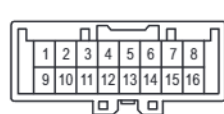
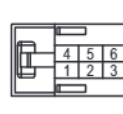
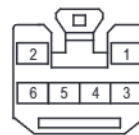
Chery automobile offers related circuit diagram information of the vehicle electrical equipment to help the technicians determine and detect the vehicle malfunction effectively.

Functions and features of the circuit diagram:

- The power supply circuit is on the top of the page, while the ground circuit is at the bottom.
- Components (such as switches and fuses) are displayed on the circuit diagram in the form of simple icon.

Circuit Diagram Instruction

EXAMPLE

I-001
WI-004
WE-049
WB-008
WI-013
WE-011
GrI-009
WB-003
WI-003
WE-014
B+

EA19490000

The connector pin layout is shown at the bottom of the circuit diagram.

The following is a list of the symbols defined in the circuit diagram.

No.	Definition	Description
1	Battery	It indicates the power supply from the battery positive to the electrical equipment.
2	Fuse	This symbol indicates a fuse; "SB5" indicates the fuse number; "30A" indicates the rated amperage of the fuse.
3	Splice Point	The solid circle indicates that each intersecting wire is interconnected.
4	Relay	This symbol indicates a relay; "MAIN RELAY" indicates the relay name; "1, 2, 3 and 5" indicate the terminal numbers of the relay.
5	Color	It indicates the color of this wire. The color codes are as follows: B = Black; W = White; R = Red; G = Green; L = Blue; Y = Yellow; Br = Brown; O = Orange; Gr = Gray; P = Pink; V = Violet; Lg = Light Green. For example: "BrR" indicates that the main color is brown in the wire color, and the second color is red.
6	Connector	It indicates the plug-in connector. "Λ" is the female connector, and "I-013" is the applicable number; "◇" is the male connector, and "E-010" is the applicable number. The number "2" inside the male connector symbol indicates the used terminal number. "----" indicates different terminals come from the same junction connectors.
7	Motor	This symbol indicates a motor.
8	Component Name	It indicates the name of a component.
9	Connector No.	"E-011" indicates the connector number of the component. The letter "E" indicates the wire harness code in which the connector is located. The connector codes are as follows: E = Engine Wire Harness, Engine Compartment Wire Harness; I = Instrument Panel Wire Harness; B = Body 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 = Rear Bumper Wire harness; K = A/C Wire Harness; P = Battery Positive/Negative Wire Harness; C = Roof Wire Harness.
10	Ground Point	It indicates the ground connection.
11	Bulb	This symbol indicates a bulb.
12	Terminal No.	It indicates the terminal number in the connector of the component.
13	Ignition Switch	It indicates the power supply from the ignition switch to the electrical equipment.
14	Connected to ...	It indicates that the wire harness is connected to the circuit diagram on the next page. The letter "A" is connected with "A" in the circuit diagram on the next page.

No.	Definition	Description
15	Fuse and Relay Box Name	It indicates the name of the fuse and relay box.
16	Twisted-pair	It indicates that the two wires are twisted.
17	Backlight Power Supply	It indicates the backlight illumination power supply output from the fuse of the front position light.
18	LED	It is used for indicators, warning lights or illuminations in the switches or instrument cluster.
19	Switch	This symbol indicates a switch.
20	Connector View	It indicates the cross section of the connector and description of the terminal number.
21	Connector Color	The letter "W" indicates the color of the connector. The color codes are the same as above.

Electrical Troubleshooting

Wire Harness Troubleshooting

The following 6 steps help to troubleshoot the wire harness. Be sure to check the non-original components added to the vehicle before performing any diagnosis. If the vehicle is equipped with these components, disconnect them to verify these added components are not the cause of the problem.

Perform the following steps when troubleshooting the wire harness:

1. Verify the problem.
2. Look for any related symptom (by inspecting the components in the same circuit).
3. Analyze the symptom (use the wire harness diagram to determine the layout of the circuit, the area where the problems most likely occur and the area where the diagnosis will continue).
4. Isolate the problem area.
5. Repair the problem area.
6. Check for proper operation (in this step, check all the items in the repaired circuit for proper operation).

Voltage Test

1. The negative probe (black) of the voltmeter is grounded.
2. Connect the positive probe (red) of the voltmeter to the selected measuring point (turn the ignition switch on as necessary). Check the voltage value displayed on the voltmeter.

Circuit Continuity Test

1. Turn off all the electrical equipment and ignition switch, and disconnect the negative battery cable.
2. Remove the circuit to be tested.
3. Connect the two probes of the ohmmeter to the two ends of the circuit to be tested respectively, and check the circuit continuity (low resistance means there is good continuity in the circuit).

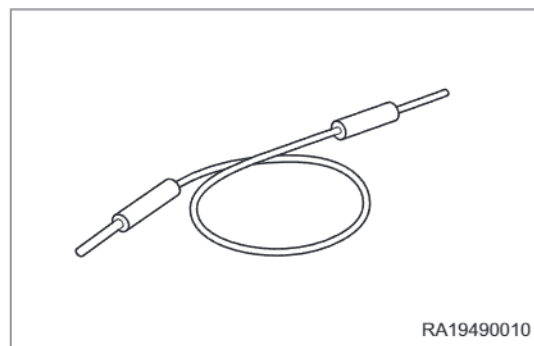
Short Circuit Test

1. Measure and record the battery voltage.
2. Pull out the fuse of the circuit to be tested or disconnect the power supply end of the test circuit.
3. Connect the positive probe (red) of the voltmeter to the positive battery terminal and the negative probe (black) to the power supply end of the circuit.
4. Check the voltage value displayed on the voltmeter. If the voltage value of the battery is displayed, it indicates that the test circuit is shorted to ground.

Electrical Troubleshooting Tools

1. Jumper Wire

- a. The jumper wire is used to create a temporary circuit. Connect the jumper wire between the terminals of a circuit to bypass the switch.

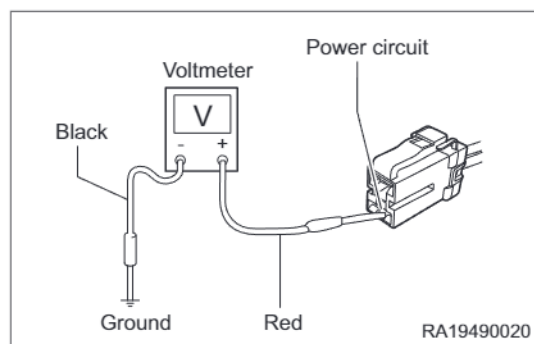


CAUTION

- DO NOT connect a jumper wire from power supply end to body ground, as this may damage the wire harnesses or electrical components.

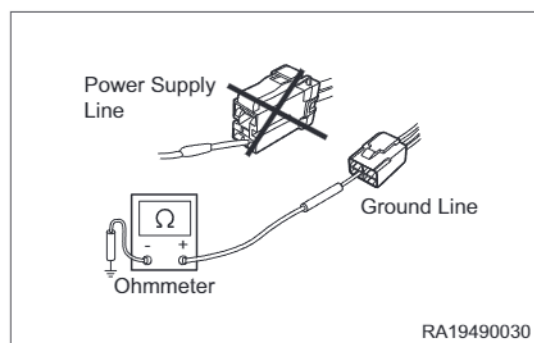
2. Voltmeter

- a. The voltmeter is used to measure the circuit voltage. The measurement range should be higher than 15 V. Measure the voltage by connecting the positive probe (red) of the voltmeter to the positive lead of the test component and the negative probe (black) to the negative lead or body ground.



3. Ohmmeter

The ohmmeter is used to measure the resistance between two points in a circuit, or check the circuit for an open or short.



CAUTION

- DO NOT connect the ohmmeter to the circuit when applying voltage to the circuit, as this may result in inaccurate measured data or even damaging the ohmmeter.

Electrical Repair

Wire Harness Repair

CAUTION

- Measure the length of the lead to be repaired and select a proper substitute lead before servicing.
- If there are several leads to be repaired, please stagger the repaired parts.

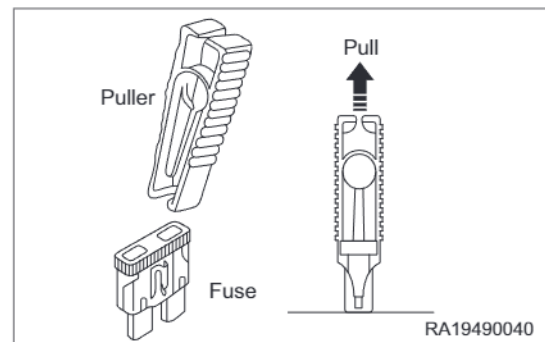
1. Peel off 0.5 inch insulating layer from the lead to be repaired and the substitute lead.
2. Connect the original lead to the substitute lead with the heat shrink tube and compress the metal core of the heat shrink tube with a tool, so that the original lead and the substitute lead can be connected firmly.
3. Heat the heat shrink tube to shrink the outer rubber layer and ensure that the sealing of repaired area is in good condition.
4. Wrap the repaired lead with insulating tape.

Fuse Replacement

CAUTION

- The energizing test should be performed after replacing the fuse. If the fuse is blown again, check the corresponding circuit for short. If any electrical equipment or additional device which exceeds the rated current is installed, replace it with the fuse with higher amperes.

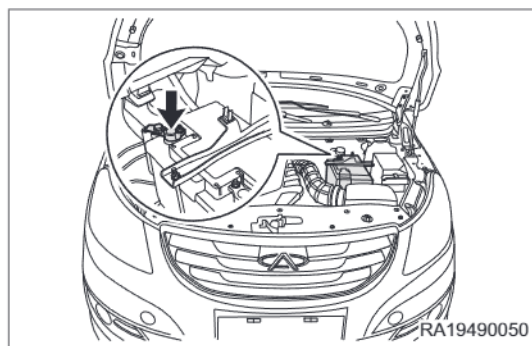
1. Turn off all the electrical equipment and ignition switch before servicing.
2. Remove the blown fuse with a fuse puller.
3. Replace the fuse with a new one which has the same specification.



Electrical Components

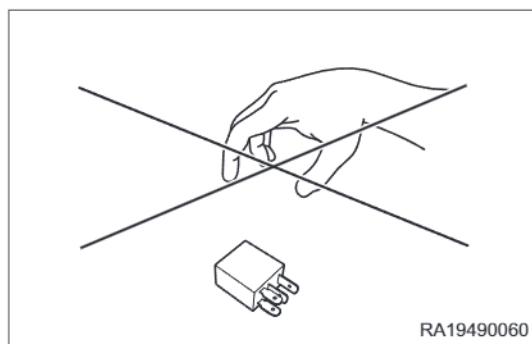
1. Battery cable

- a. Disconnect the negative battery cable (arrow) before servicing the electrical components.



2. Sensor, switch and relay

- a. Do not drop or tap the sensor, switch or relay to avoid damaging the components during servicing.

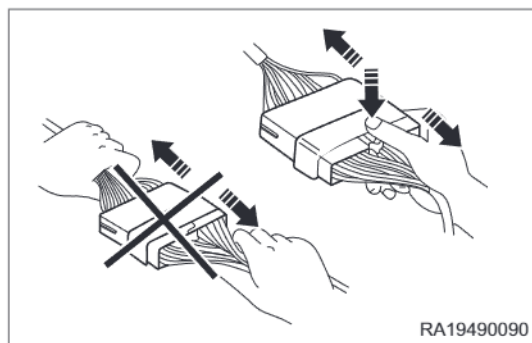


CAUTION

- Use the relay of the same specification with the original one during replacement.

3. Connector

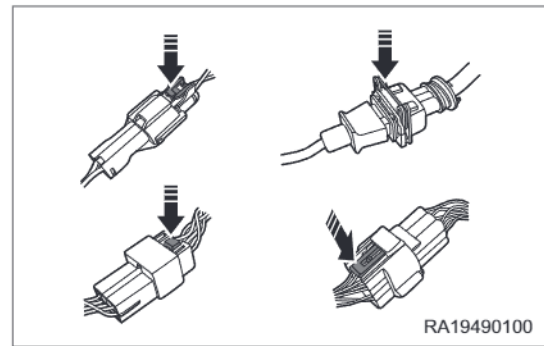
- a. Disconnect the connector.
 - Hold the connector by hand and press the connector clip to disconnect it.



CAUTION

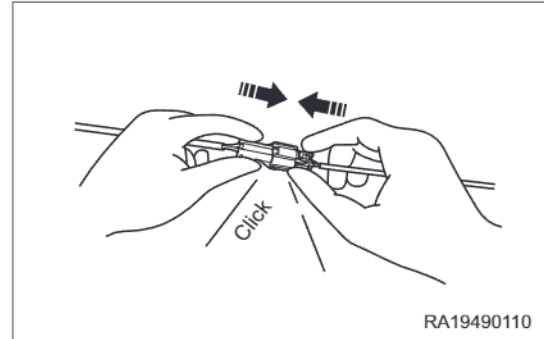
- DO NOT pull the wire harness forcibly to avoid damaging the components when disconnecting the connector.

- There are a variety of ways to fix the connector clip, and the common disconnection methods are shown in the illustration.



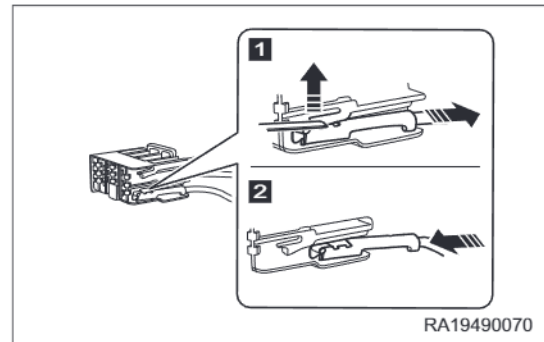
b. Install the connector.

- A "click" can be heard when the connector is installed in place.



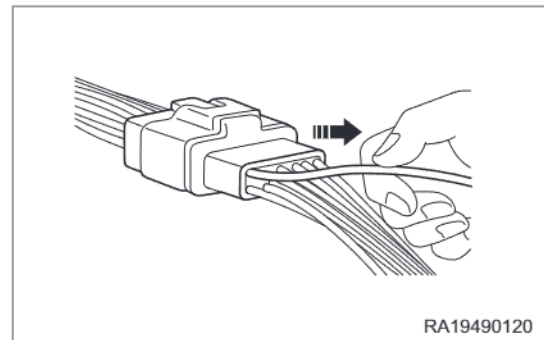
c. Replace the connector terminal.

- As shown in the illustration (1), insert a suitable tool into the terminal to lift up the fixing clip, and then pull out the terminal from behind.
- During installation, push the terminal from the back of the connector to ensure that the fixing clip is installed in place as shown in the illustration (2).



d. Check the connector terminal.

- Pull a single wire harness terminal gently to check if it is installed in place.



VEHICLE POWER DISTRIBUTION

General Information

Description

The power distribution system provides secure, reliable and efficient power for all electrical equipment on the entire vehicle.

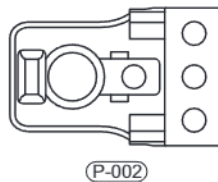
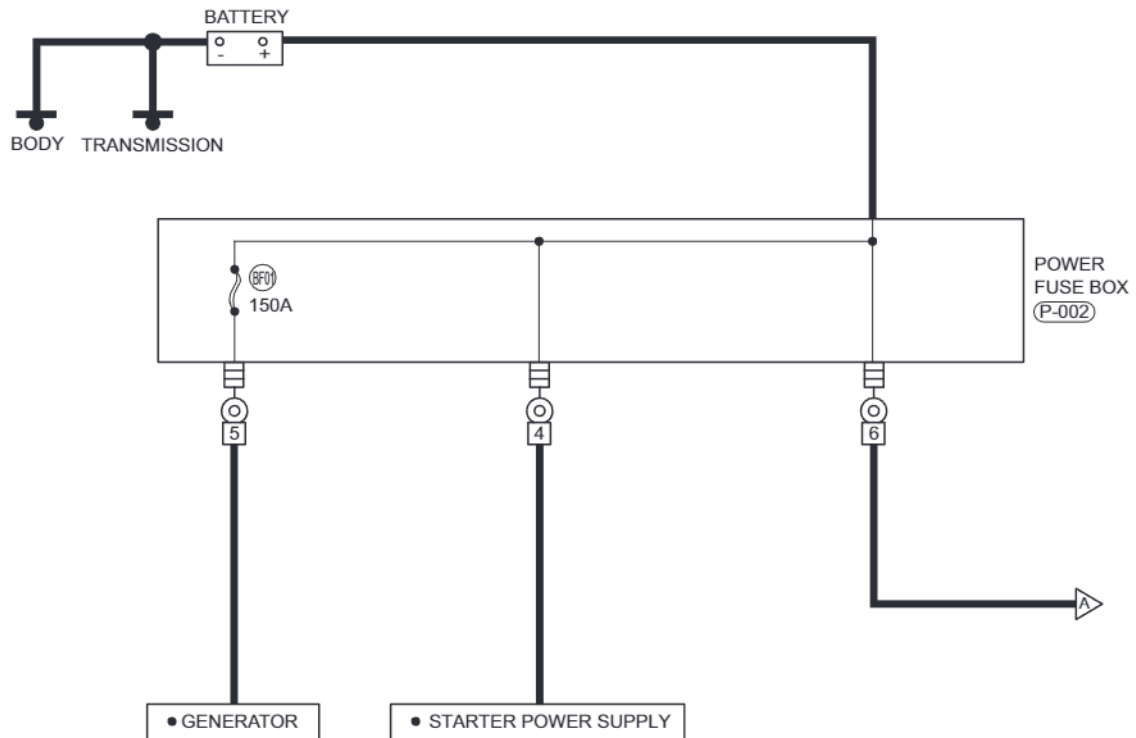
The power distribution system consists of the following components:

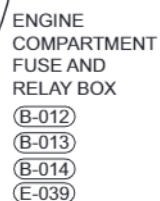
- Battery
- Engine compartment fuse and relay box
- Instrument panel fuse and relay box
- Ignition switch
- Fuse
- Relay

Circuit Diagram

Power Distribution

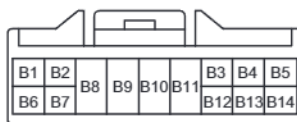
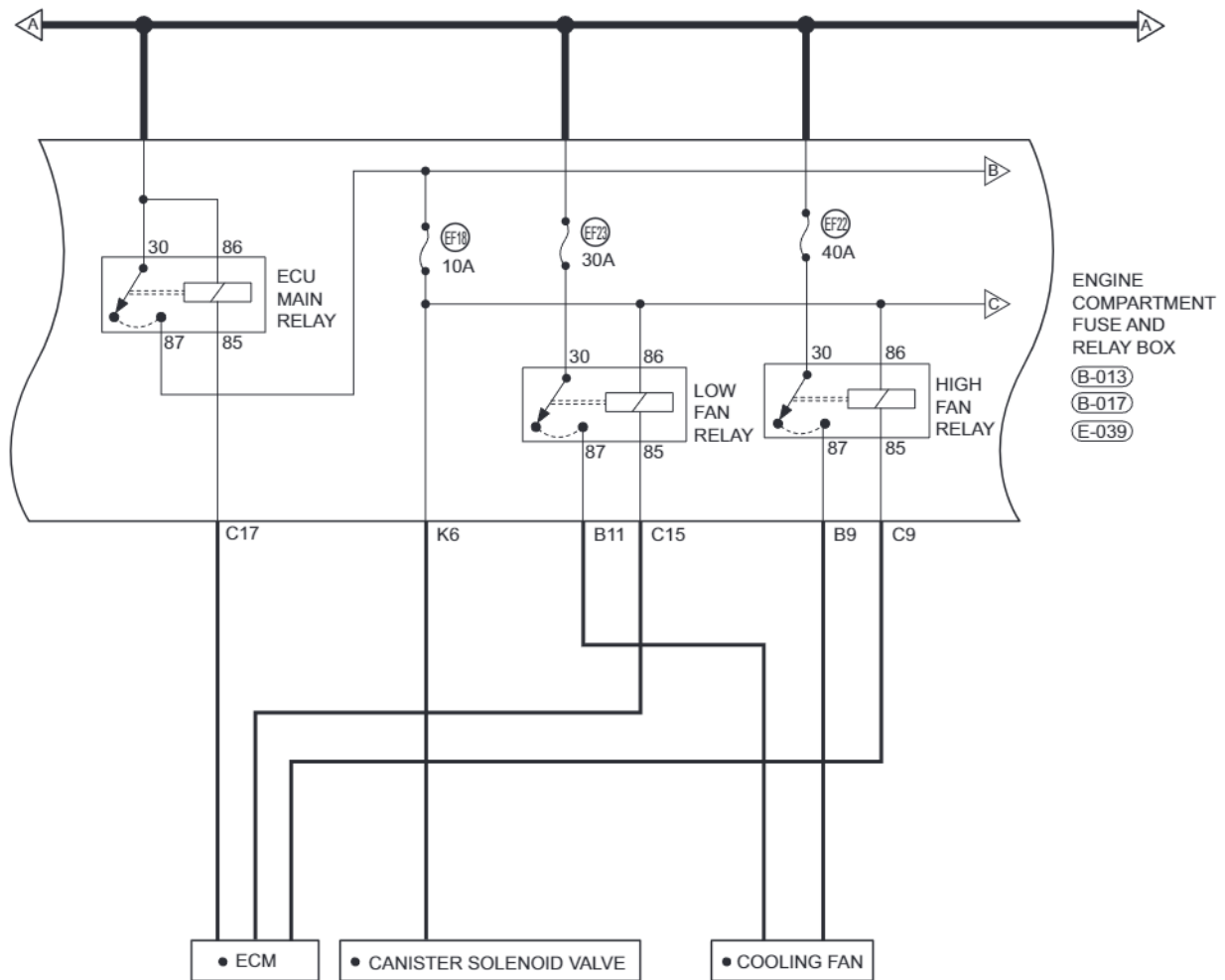
Power Distribution (Page 1 of 8)



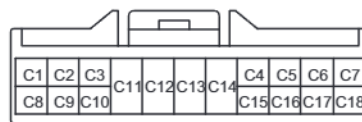


49

Power Distribution (Page 3 of 8)



(E-039)
W

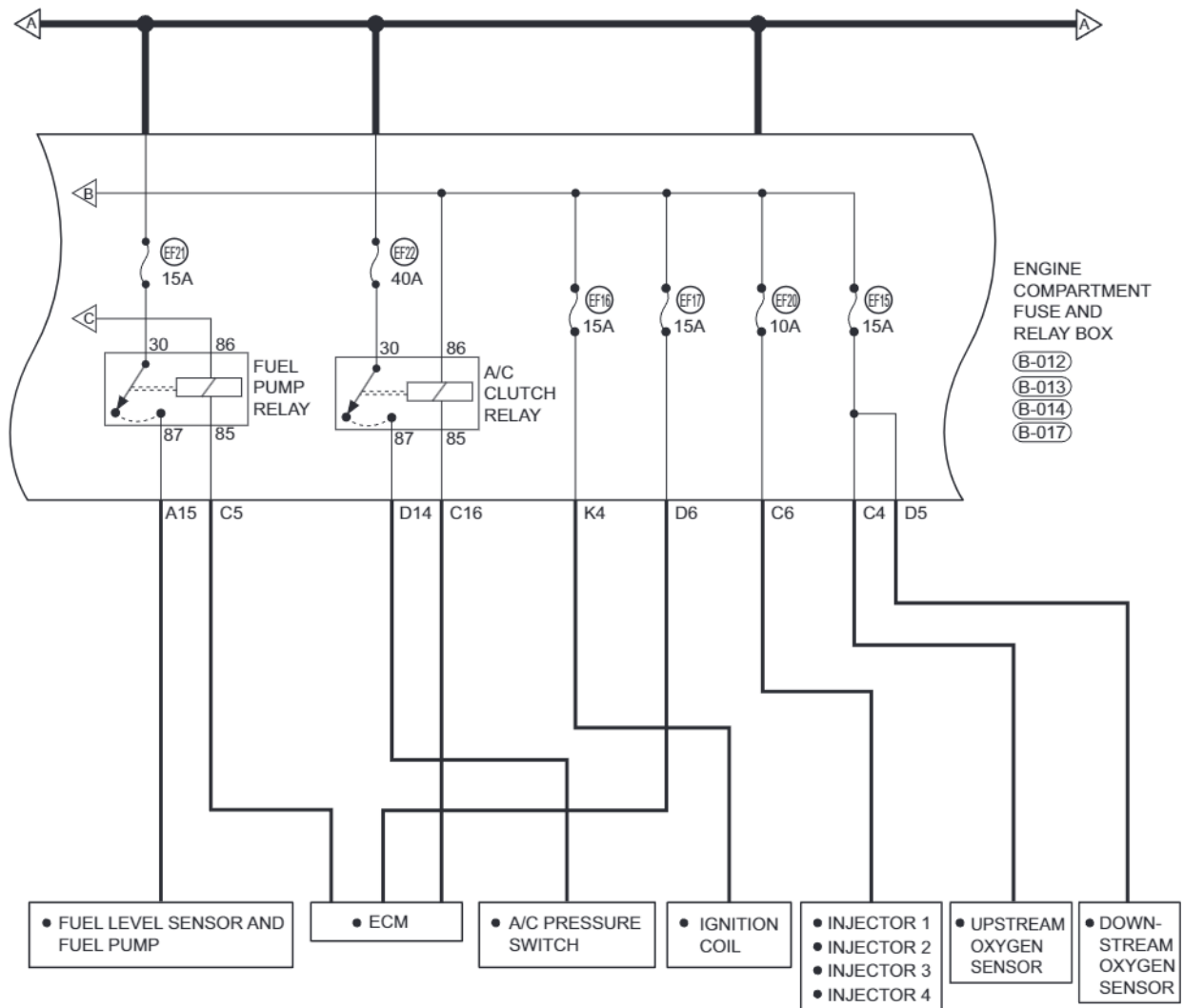
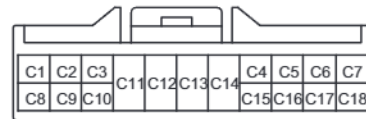
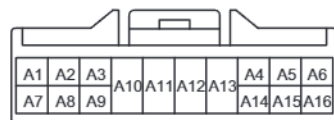
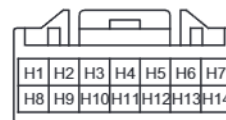


(B-013)
W



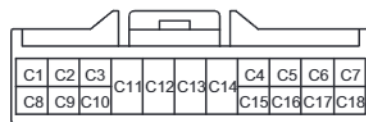
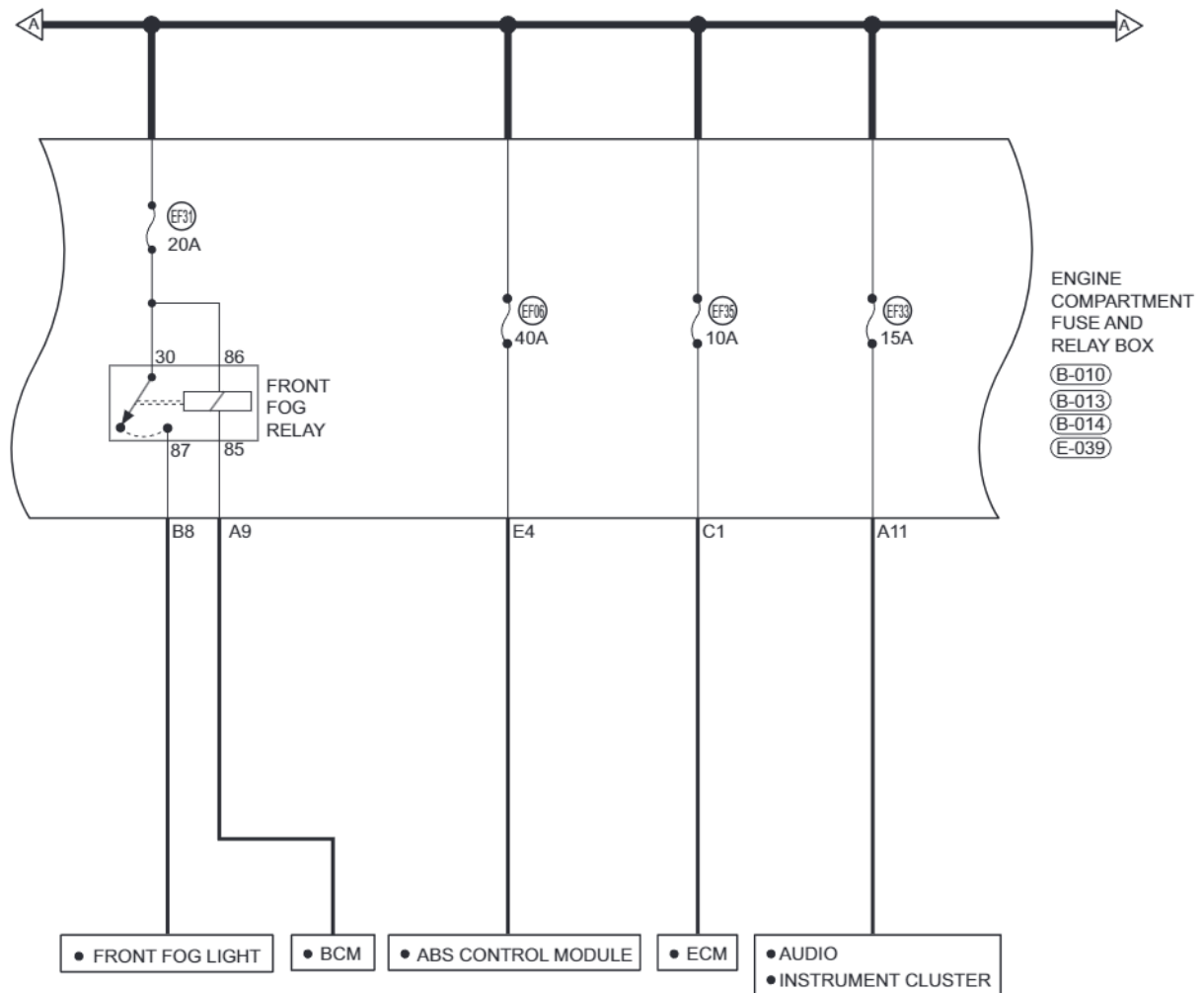
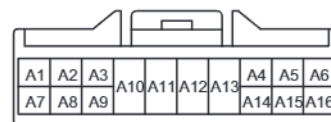
(B-017)
W

Power Distribution (Page 4 of 8)

(B-012)
W(B-013)
W(B-014)
W(B-017)
W

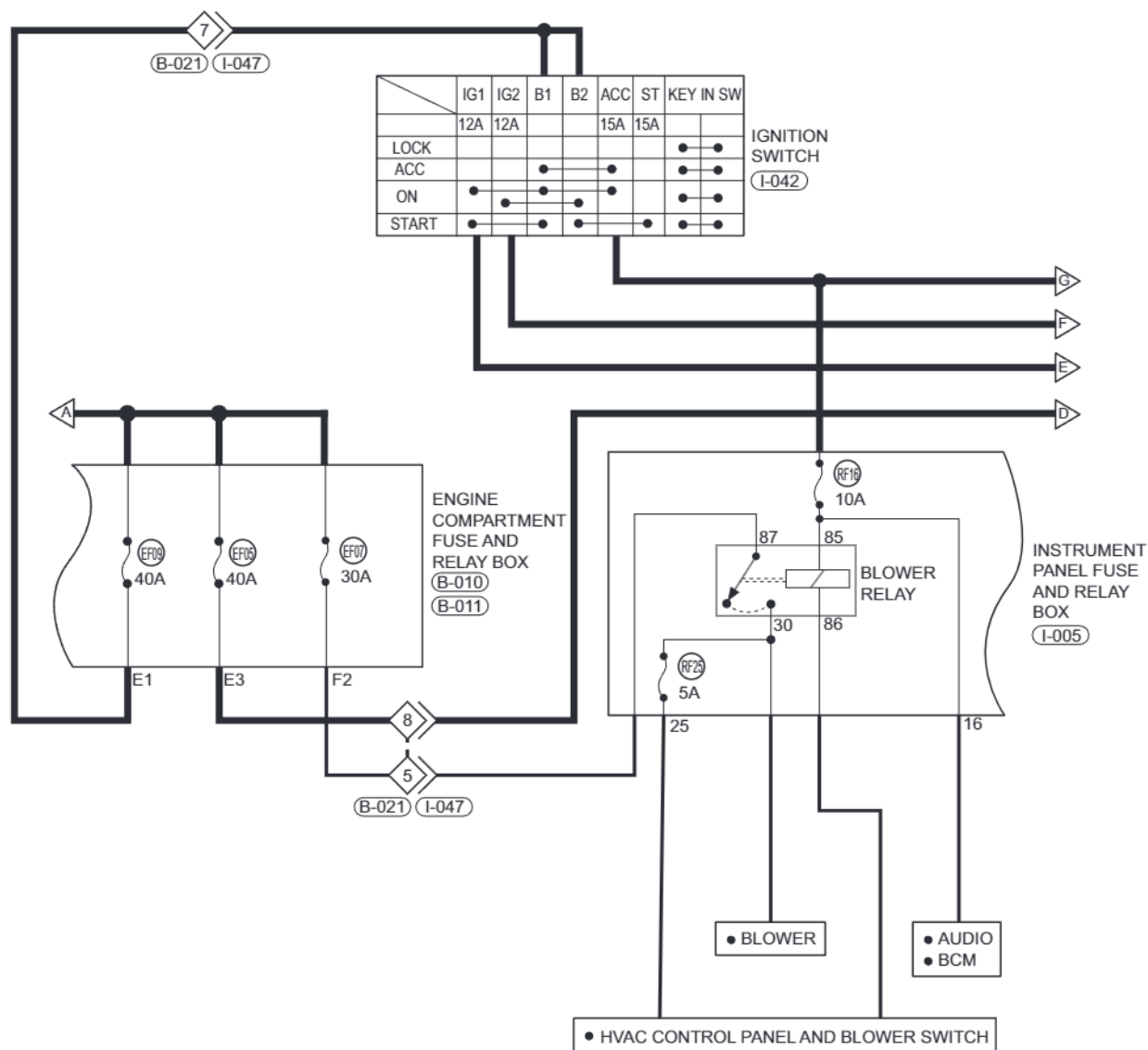
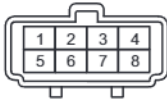
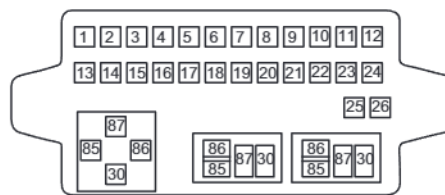
EA19490040

Power Distribution (Page 5 of 8)

(B-013)
W(B-014)
W(E-039)
W(B-010)
W

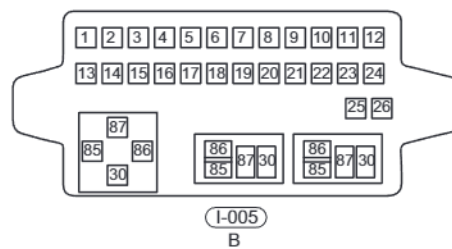
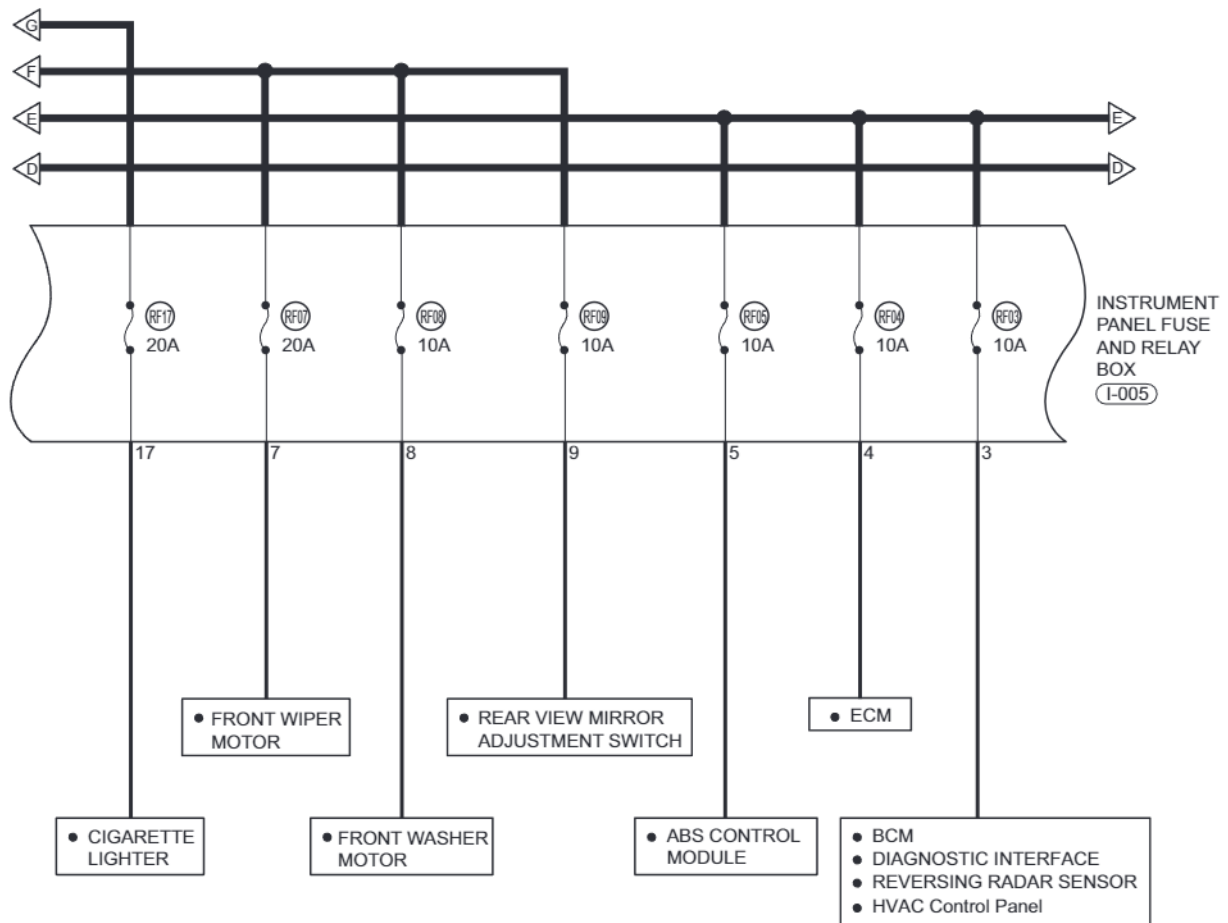
EA19490050

Power Distribution (Page 6 of 8)

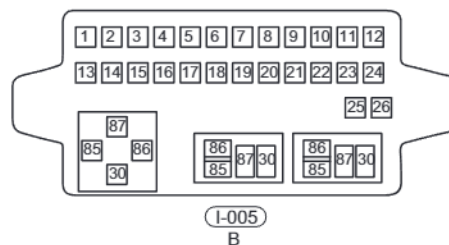
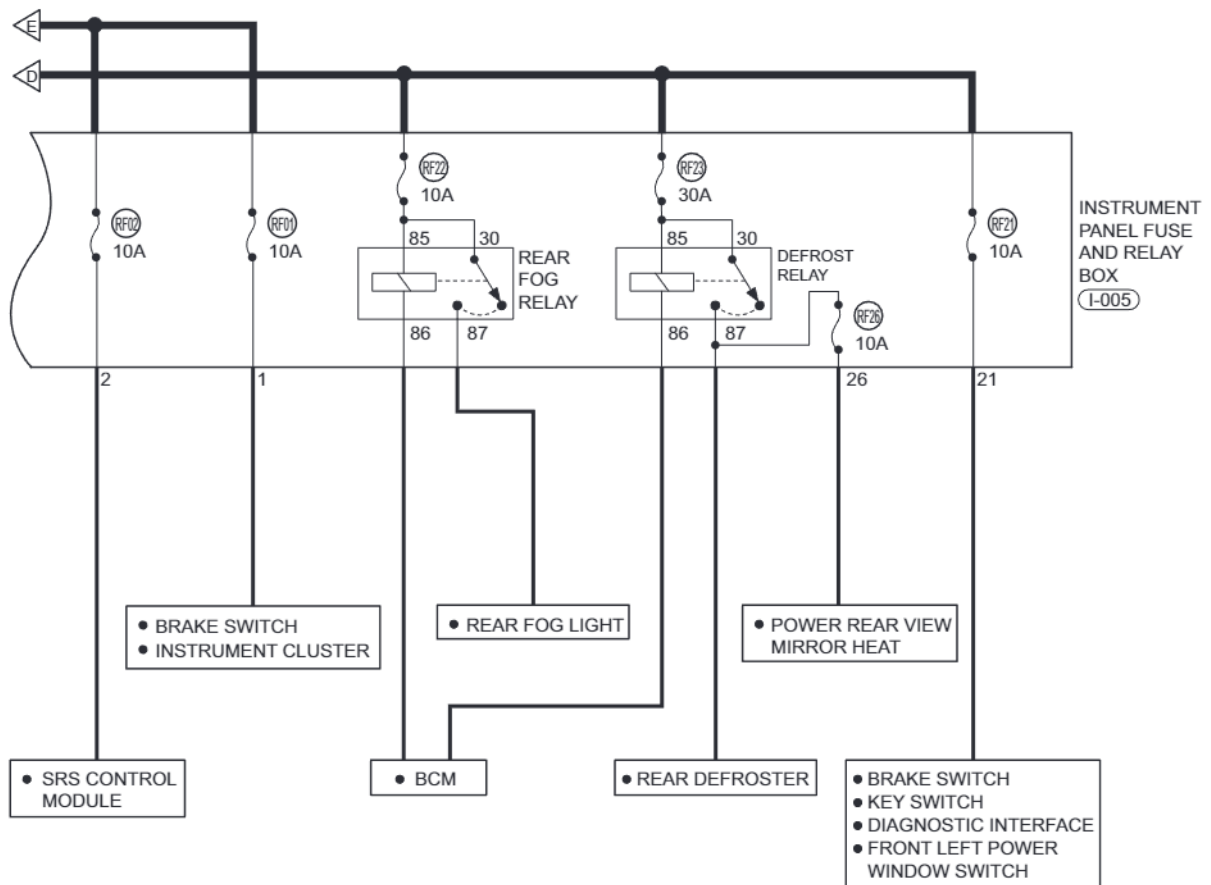
(B-010)
W(B-011)
Lg(B-021)
W(I-042)
L(I-005)
B

EA19490060

Power Distribution (Page 7 of 8)



Power Distribution (Page 8 of 8)



EA19490080

VEHICLE GROUND DISTRIBUTION

General Information

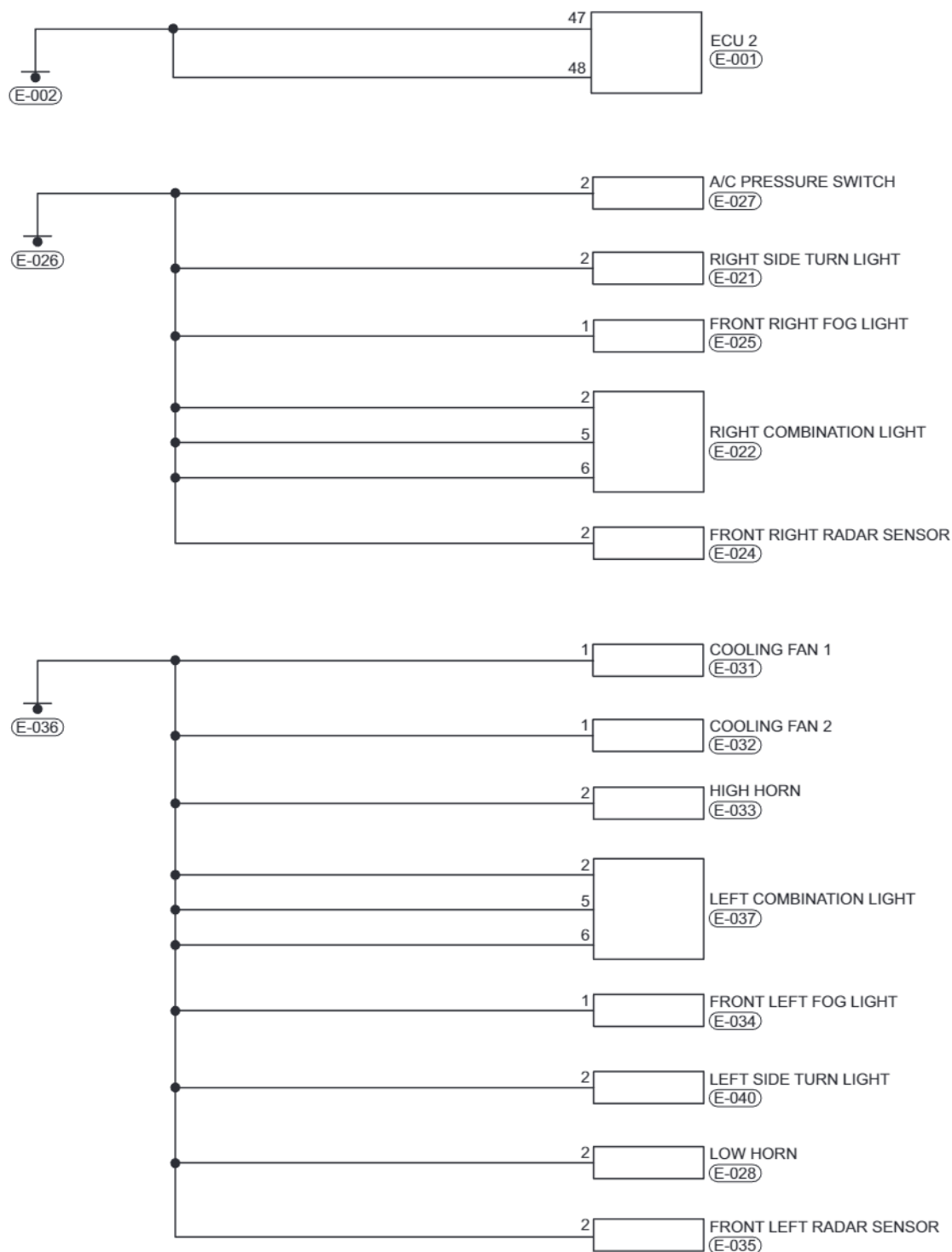
Description

The ground distribution system provides the centralized and convenient information about the ground positions for the electrical equipment on the entire vehicle. Technicians can find the relevant electrical equipment quickly through the ground points and solve the problem accurately and efficiently.

Circuit Diagram

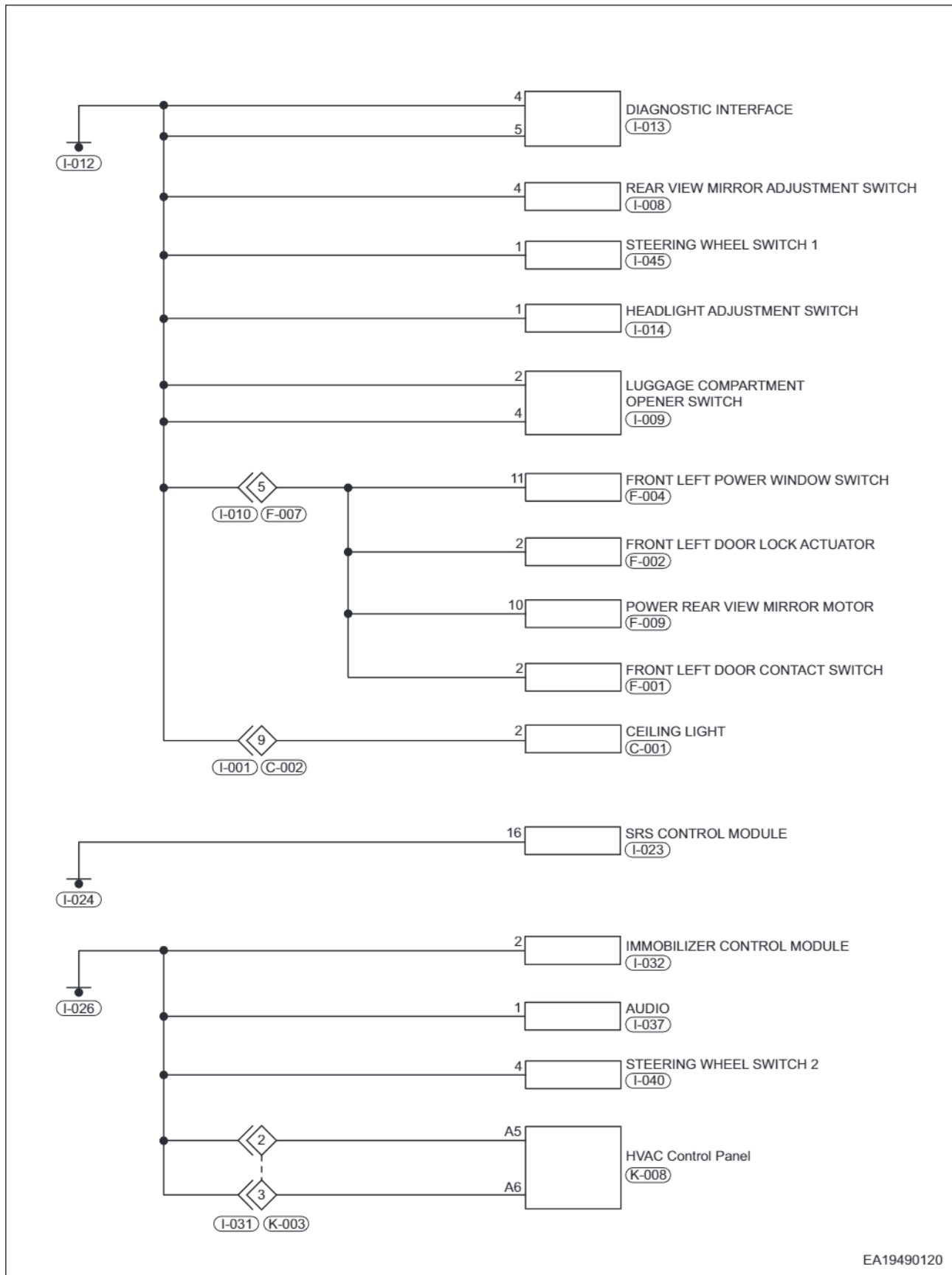
Ground Distribution

Ground Distribution (Page 1 of 4)



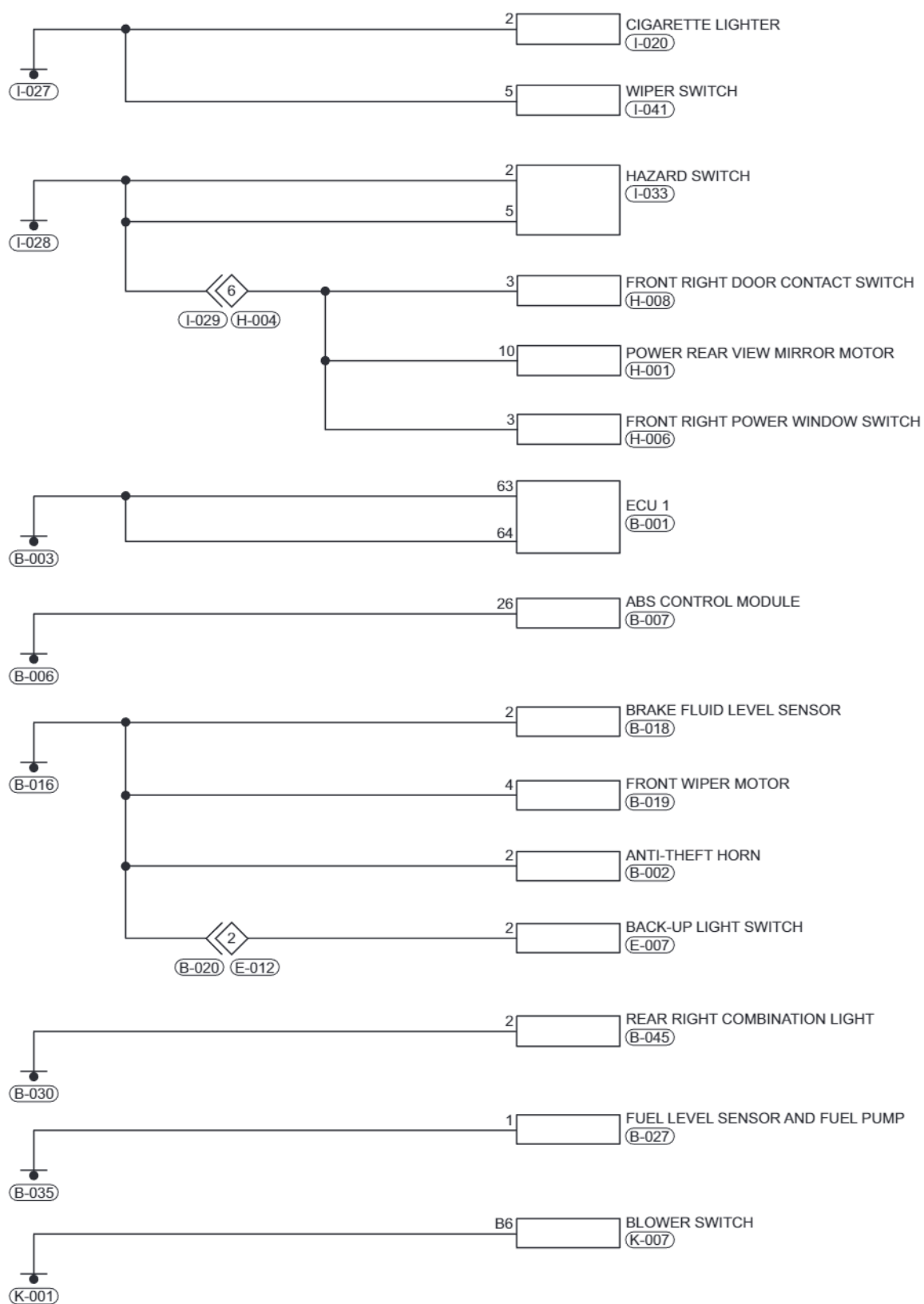
EA19490110

Ground Distribution (Page 2 of 4)



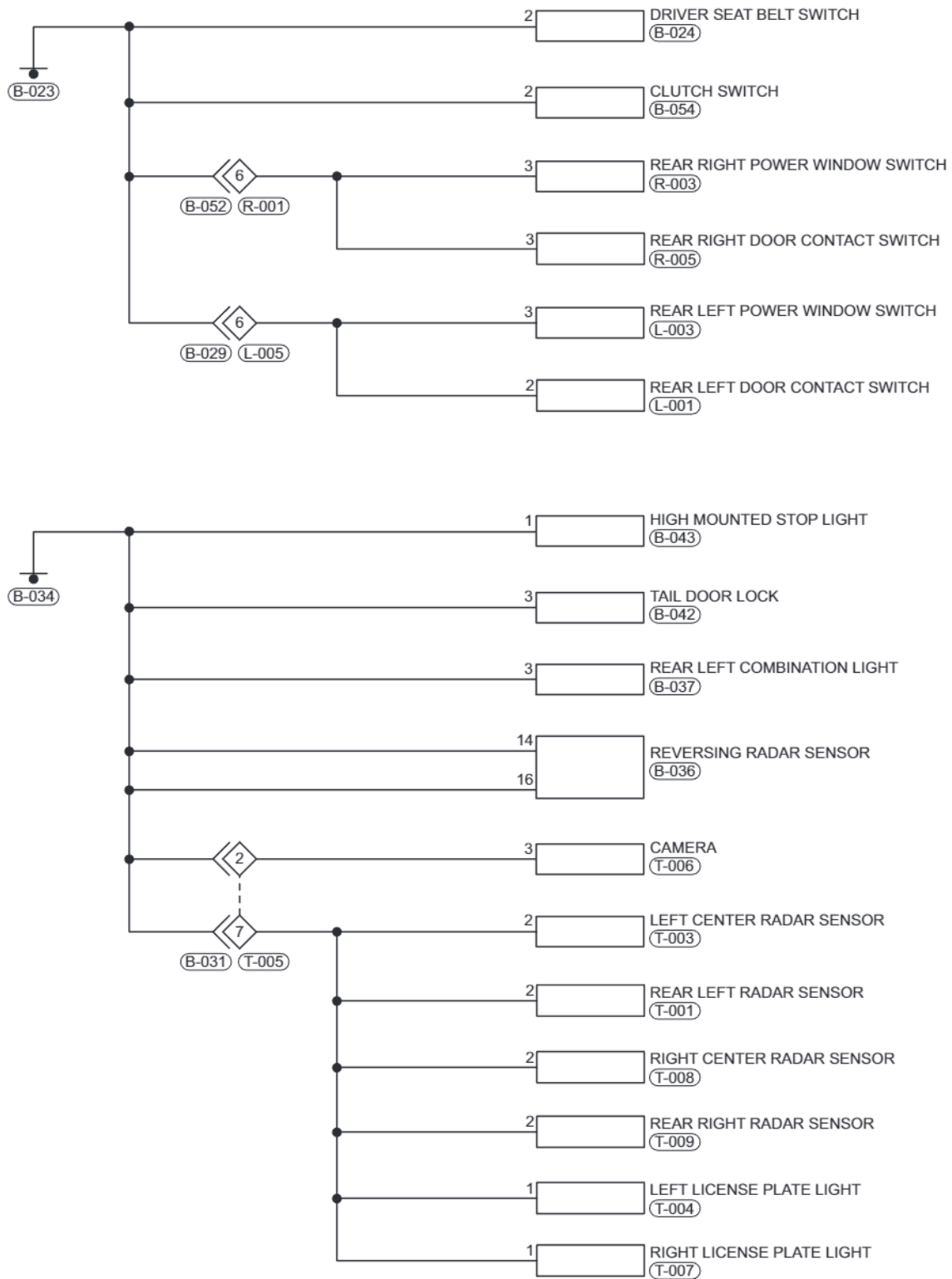
EA19490120

Ground Distribution (Page 3 of 4)



EA19490130

Ground Distribution (Page 4 of 4)



EA19490140

VEHICLE FUSE & RELAY

General Information

Description

Each system should be equipped with fuses and relays to ensure the normal operation of vehicle electrical system. The fuses and relays are integrated into the fuse and relay boxes which are installed in the following specific positions of vehicle:

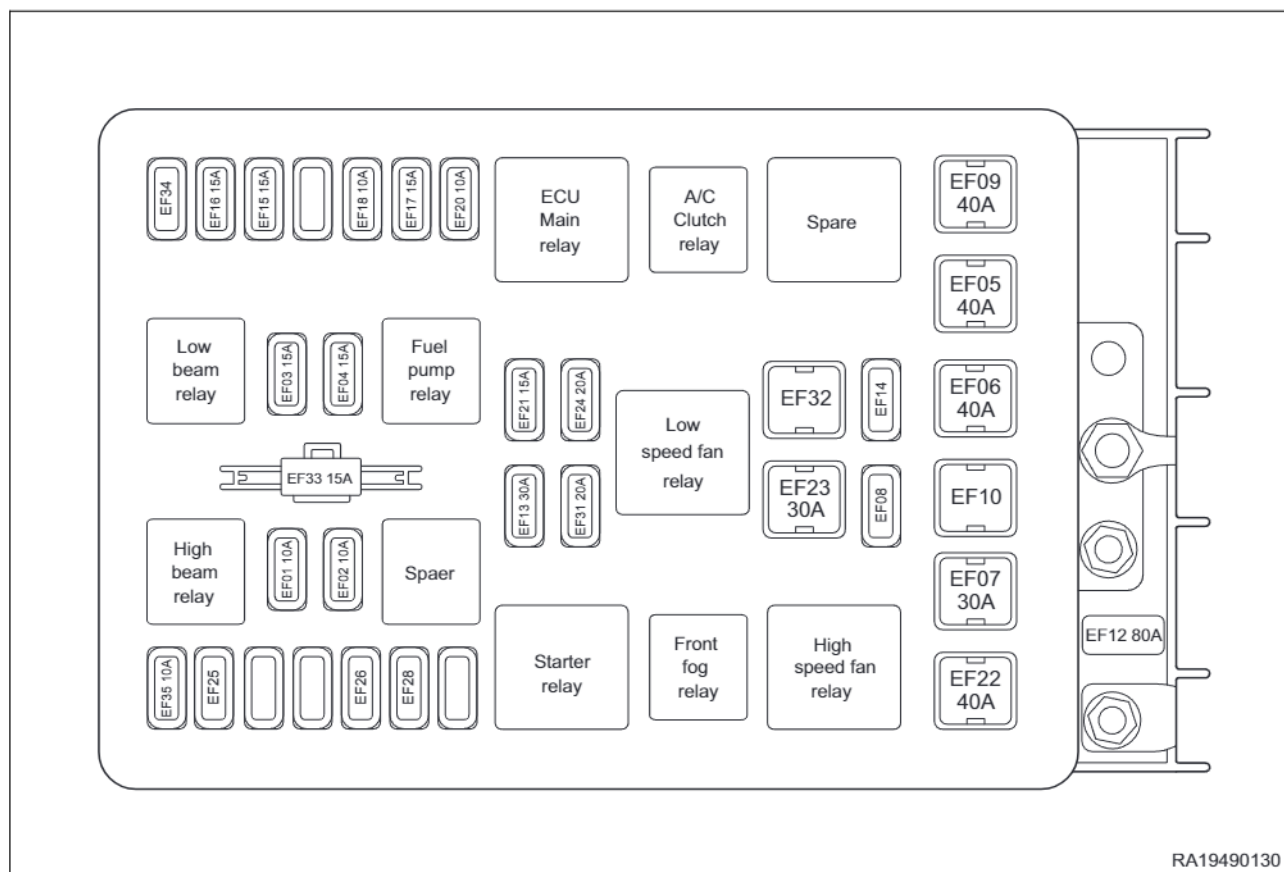
Engine compartment fuse and relay box: located on the left side of engine compartment and the rear side of front left combination light.

Instrument panel fuse and relay box: located on the lower left side of instrument panel.

BCM fuse box: located on lower side of instrument panel.

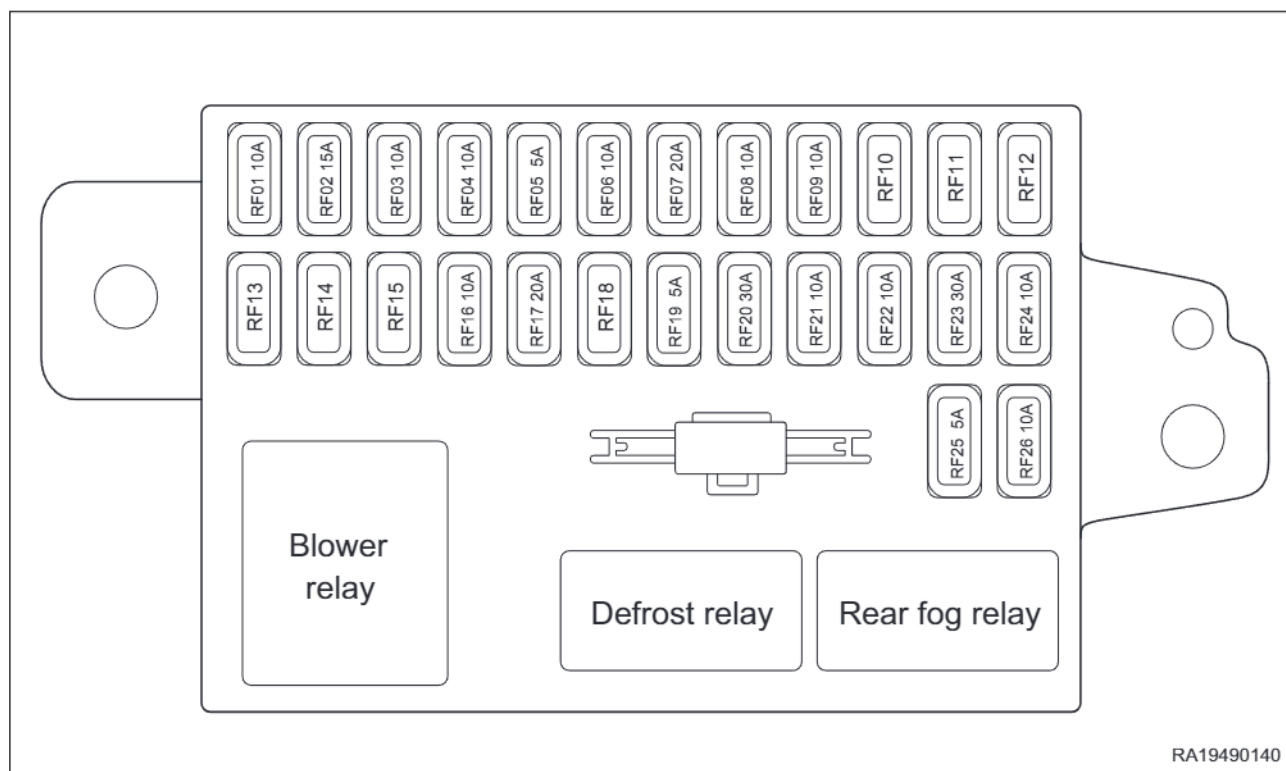
Fuse & Relay

Engine Compartment Fuse and Relay Box



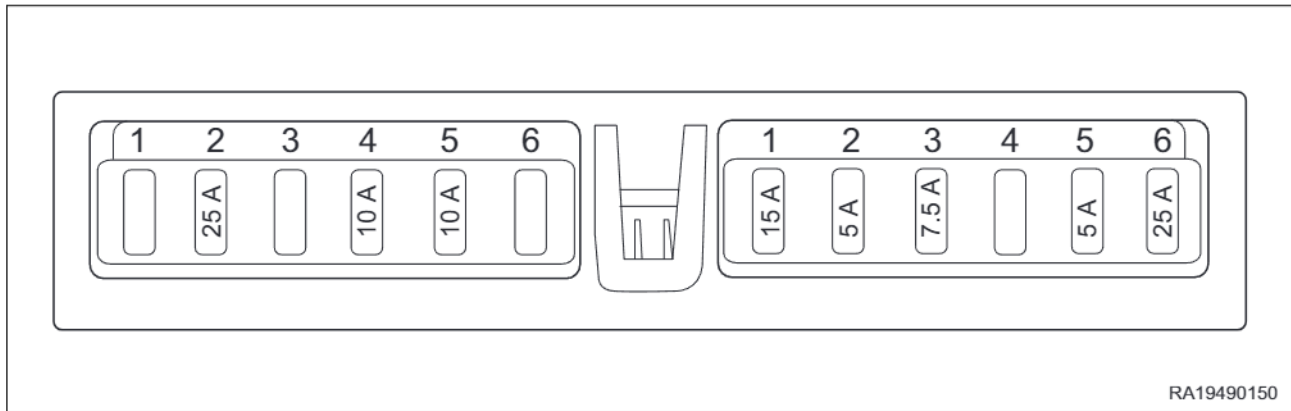
No.	Description	No.	Description
EF01	Left Headlight High Beam	EF17	ECU EMS
EF02	Right Headlight High Beam	EF18	Canister/Fuel Pump/High-speed Fan Relay/Low-speed Fan Relay Coil
EF03	Left Headlight Low Beam	EF20	Injector
EF04	Right Headlight Low Beam	EF21	Fuel Pump
EF05	Instrument Panel Fuse and Relay Box	EF22	High-speed Fan
EF06	ABS Pump	EF23	Low-speed Fan
EF07	Blower	EF24	A/C
EF08	Reserve	EF25	Reserve
EF09	Ignition Switch	EF26	Reserve
EF10	Reserve	EF28	Reserve
EF12	BCM	EF31	Front Fog Light
EF13	Starter	EF32	Reserve
EF14	Reserve	EF33	Instrument Cluster/Audio System
EF15	Upstream/Downstream Oxygen Sensor	EF34	Reserve
EF16	Ignition Coil	EF35	ECU

Instrument Panel Fuse and Relay Box



No.	Description	No.	Description
RF01	Instrument Cluster	RF14	-
RF02	Airbag	RF15	-
RF03	Diagnosis/Radar/A/C Control Panel/BCM	RF16	Audio System/Sunroof Switch (If equipped)/ Blower Relay Coil/BCM
RF04	ECU	RF17	Cigarette Lighter
RF05	ABS	RF18	-
RF06	TCU (If equipped)	RF19	TCU (If equipped)
RF07	Front Wiper	RF20	Sunroof (If equipped)
RF08	Front Washer	RF21	Key in Switch/Diagnosis/Stop Switch/Ignition Switch
RF09	Power Outside Rear View Mirror	RF22	Rear Fog Light
RF10	-	RF23	RF23
RF11	-	RF24	Position Switch (If equipped)
RF12	-	RF25	A/C Control Panel
RF13	-	RF26	Rear View Mirror Heating (If equipped)

BCM Fuse Box



No. (Left)	Description	No. (Right)	Description
1	Reserve	1	Trunk Lock/Door Lock Motor
2	Rear Left Lifter/Rear Right Lifter	2	Front Left Position Light/Rear Left Position Light
3	Reserve	3	Front Right Position Light/Rear Right Position Light/Left License Plate Light/Right License Plate Light
4	High Pitched Horn/Low Pitched Horn	4	Reserve
5	Dome Light/Front Left Map Light/Front Right Map Light/Key Light	5	Reserve
6	Reserve	6	Front Left Lifter/Front Right Lifter

VEHICLE WIRE HARNESS LAYOUT

General Information

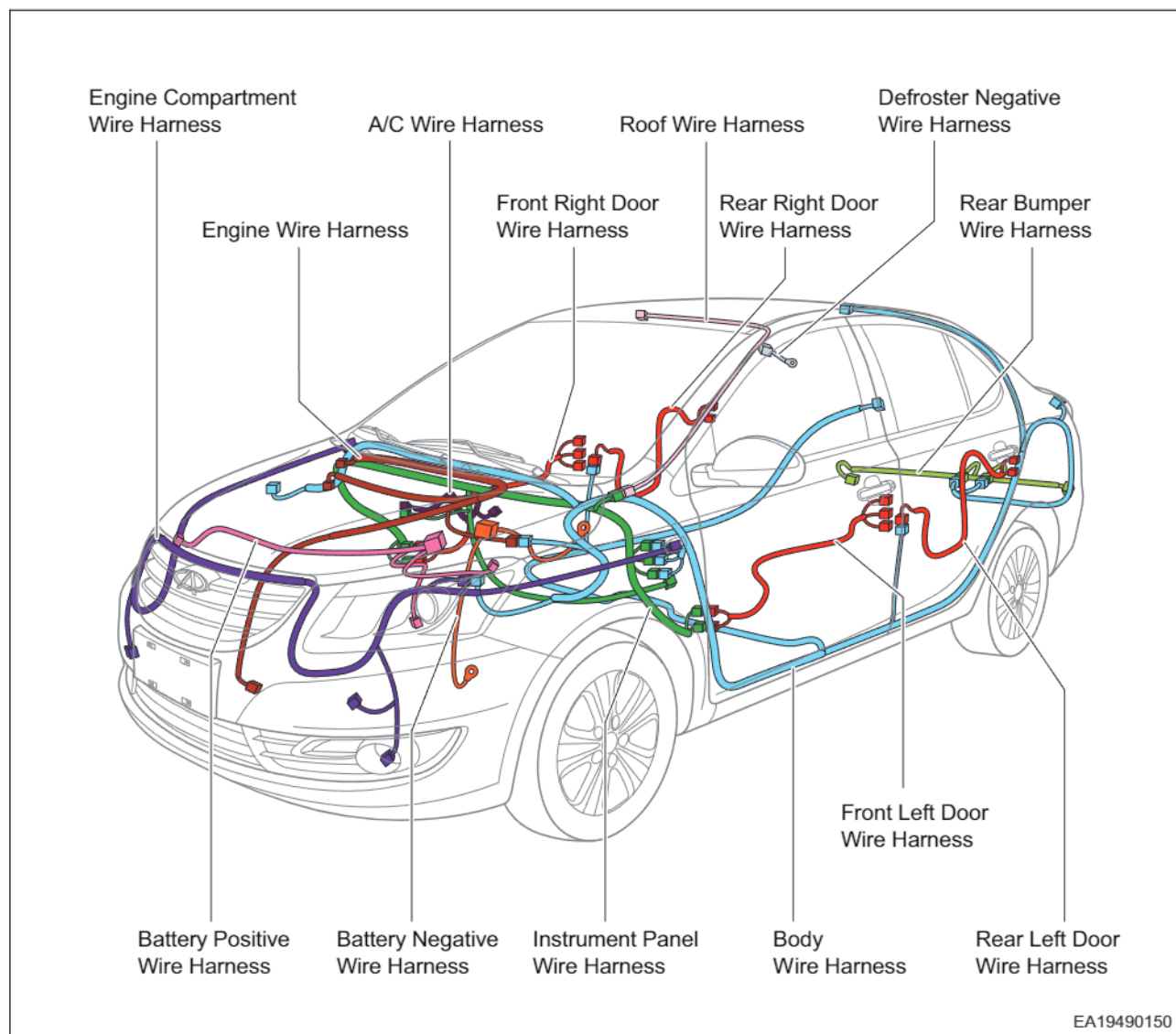
Description

The wire harness layout introduces the location information of vehicle wire harness and electrical components in the form of graphic. The entire vehicle wire harnesses are divided into the following parts:

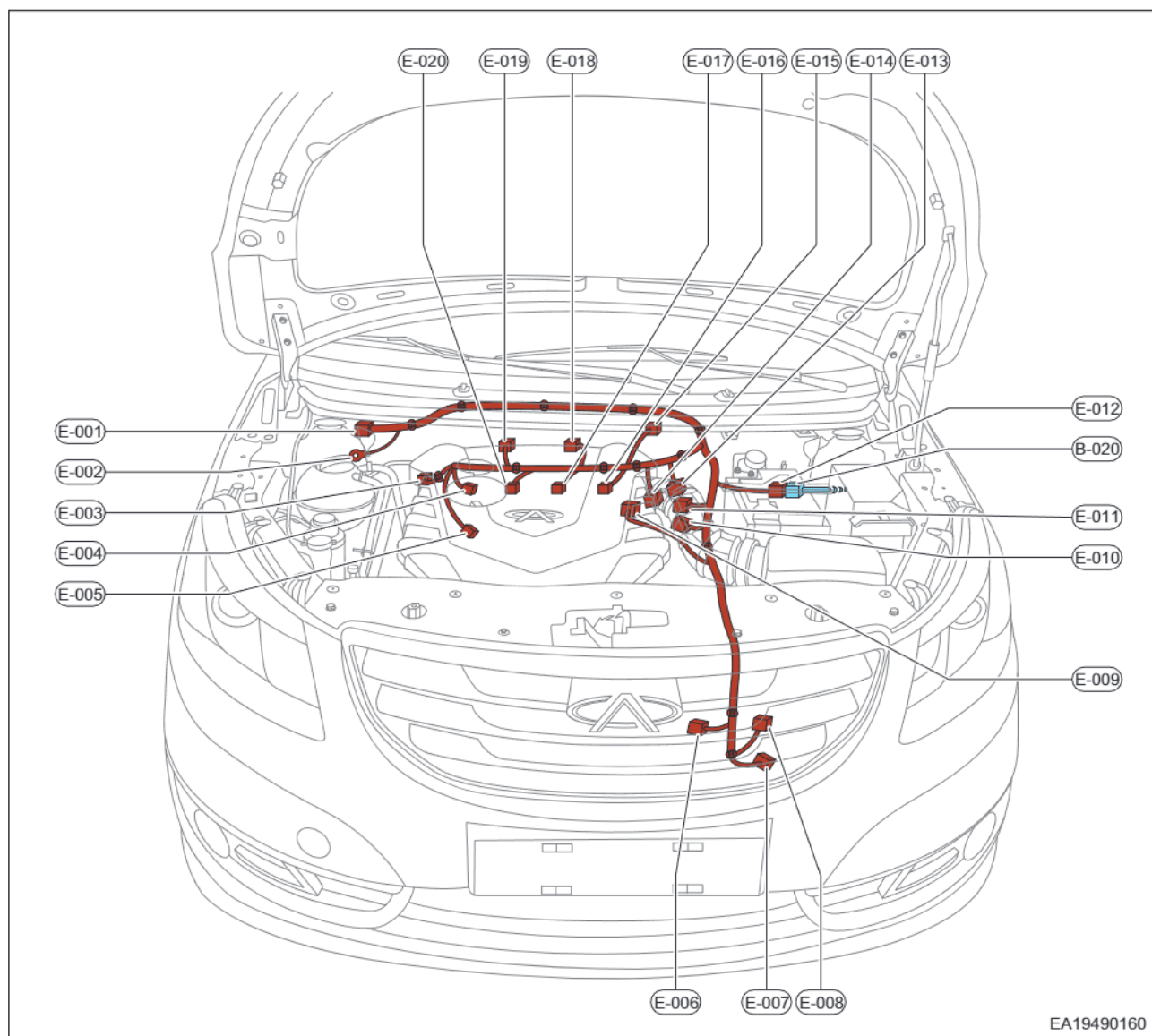
- Entire Vehicle Wire Harness Layout
- Engine Wire Harness
- Engine Compartment Wire Harness
- Instrument Panel Wire Harness
- Body Wire Harness
- Front Left Door Wire Harness
- Front Right Door Wire Harness
- Rear Left Door Wire Harness
- Rear Right Door Wire Harness
- Rear Bumper Wire harness
- A/C Wire Harness
- Battery Positive/Negative Wire Harness
- Roof Wire Harness
- Defogger Negative Wire Harness

Vehicle Wire Harness Layout

Entire Vehicle Wire Harness Layout



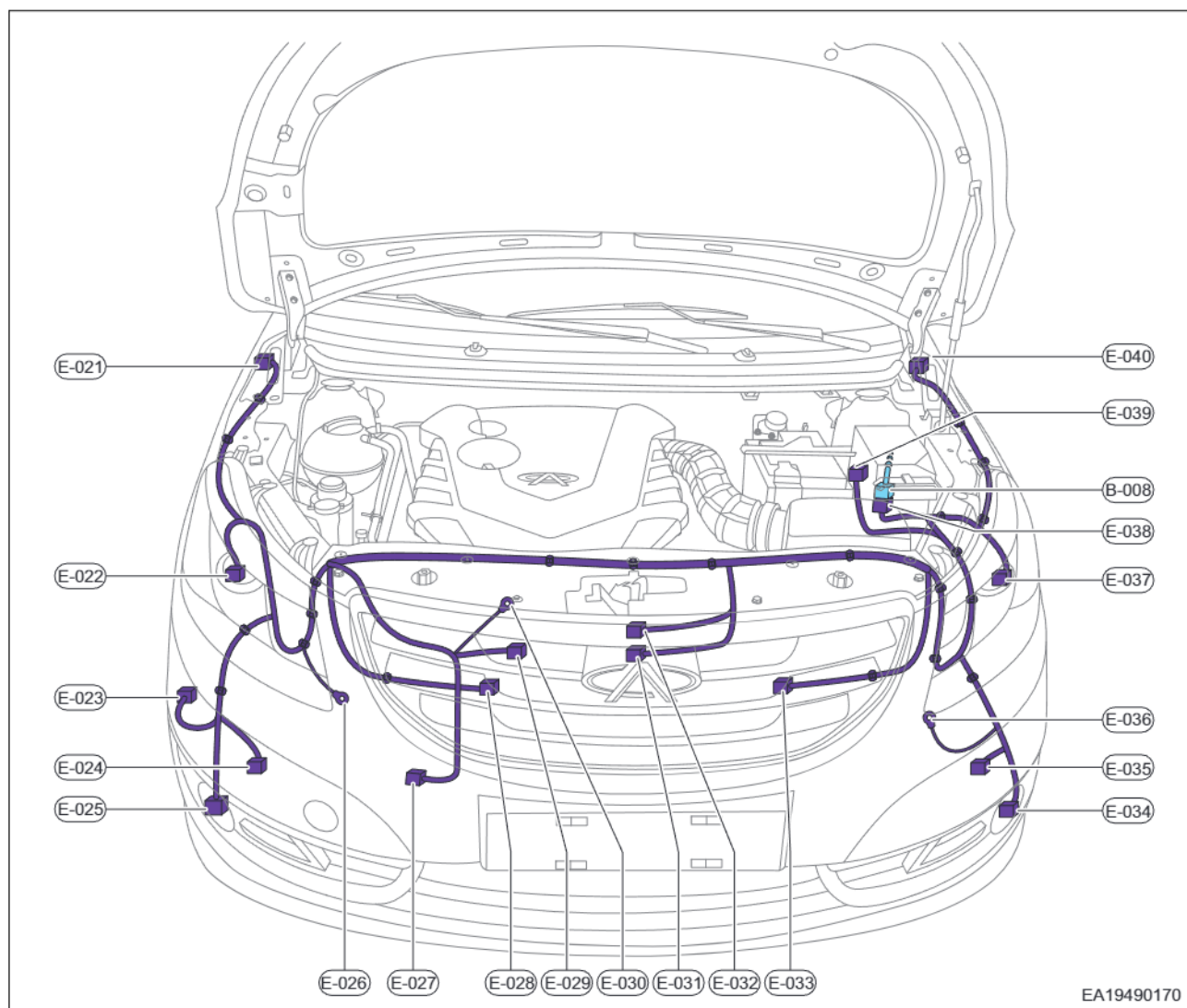
Engine Wire Harness



Connector Code	Connector Color/Pin	Connector Name
E-001	B/48	ECU 1
E-002	-	Ground
E-003	B/3	Knock Sensor
E-004	B/2	Injector 1
E-005	B/1	Oil Pressure Switch
E-006	B/4	Upstream Oxygen Sensor
E-007	B/2	Back-up Light Switch
E-008	B/4	Downstream Oxygen Sensor
E-009	B/3	Camshaft Position Sensor
E-010	B/4	Ignition Coil
E-011	B/1	Starter Solenoid Switch

Connector Code	Connector Color/Pin	Connector Name
E-012	B/16	to Body Wire Harness Connector B-020
E-013	B/3	Engine Speed Sensor
E-014	B/2	Coolant Temperature Sensor
E-015	B/6	Throttle Position Sensor
E-016	B/2	Injector 4
E-017	B/2	Injector 3
E-018	B/2	Canister Solenoid Valve
E-019	B/4	Intake Pressure/Temperature Sensor
E-020	B/2	Injector 2

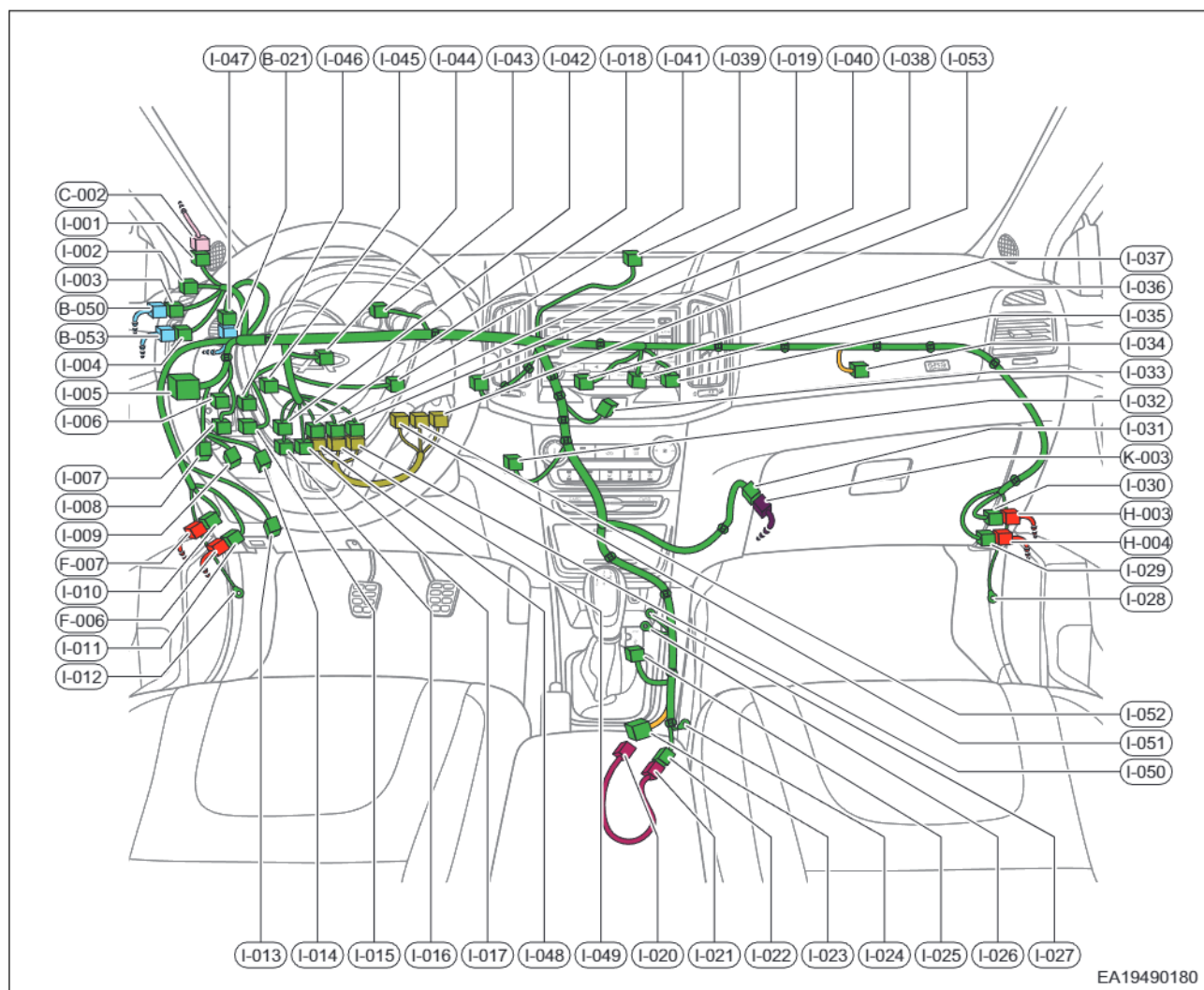
Engine Compartment Wire Harness



Connector Code	Connector Color/Pin	Connector Name
E-021	W/2	Right Side Turn Light
E-022	B/10	Right Combination Light
E-023	Gr/2	Front Washer Motor
E-024	Lg/2	Front Right Radar Sensor
E-025	B/2	Front Right Fog Light
E-026	-	Ground
E-027	B/2	A/C Pressure Switch
E-028	Gr/2	Low Horn
E-029	G/1	Power Steering Pump Switch
E-030	-	Generator
E-031	B/3	Cooling Fan 1
E-032	B/3	Cooling Fan 2

Connector Code	Connector Color/Pin	Connector Name
E-033	Gr/2	High Horn
E-034	B/2	Front Left Fog Light
E-035	Lg/2	Front Left Radar Sensor
E-036	-	Ground
E-037	B/10	Left Combination Light
E-038	B/16	to Body Wire Harness Connector B-008
E-039	W/14	Engine Compartment Fuse and Relay Box (B)
E-040	W/2	Left Side Turn Light

Instrument Panel Wire Harness

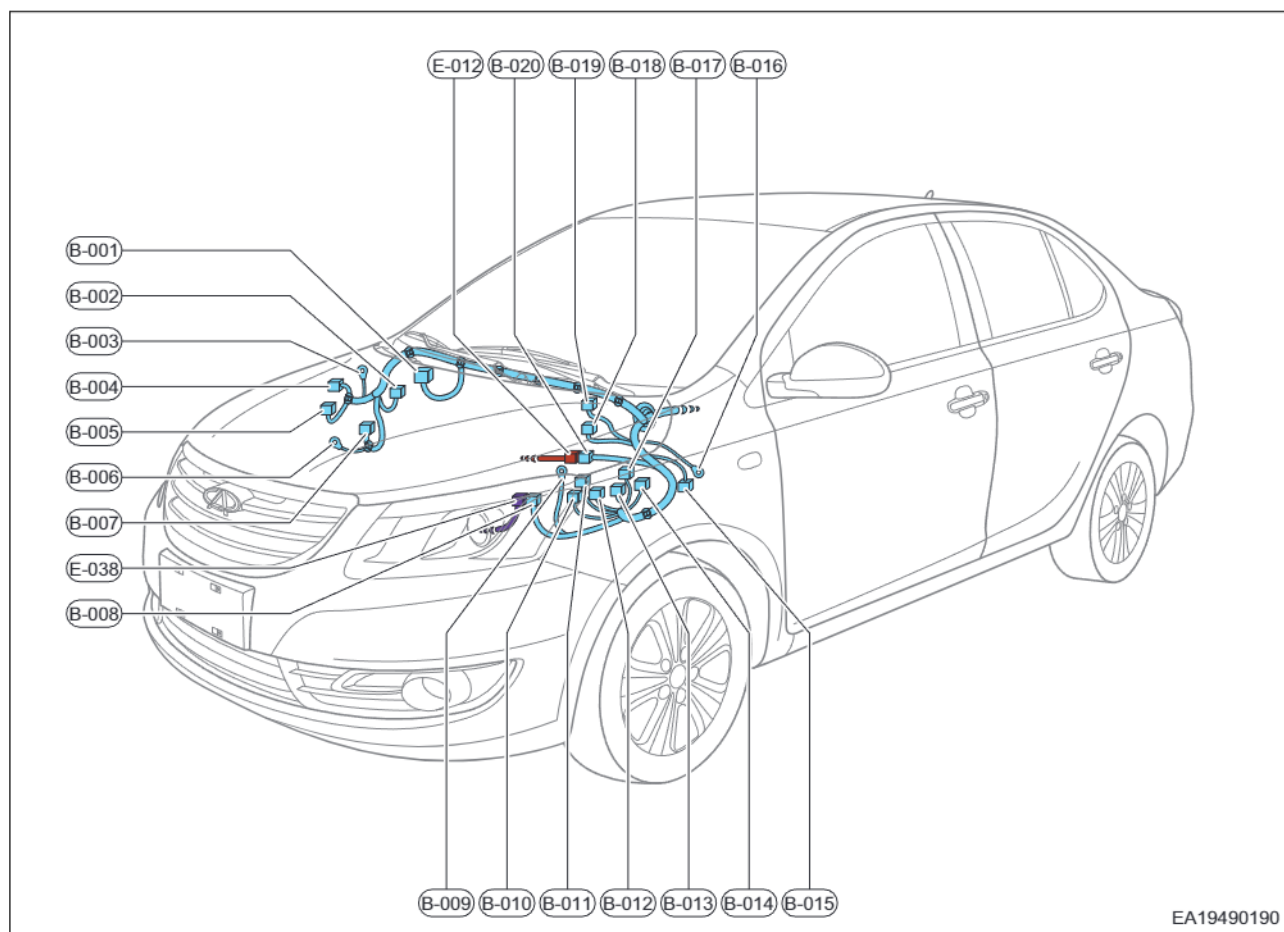


Connector Code	Connector Color/Pin	Connector Name
I-001	W/10	to Roof Wire Harness C-002
I-002	Gr/1	Antenna
I-003	W/42	to Body Wire Harness Connector B-050
I-004	L/42	to Body Wire Harness Connector B-053
I-005	B	Instrument Panel Fuse and Relay Box
I-006	L/32	BCM (B)
I-007	B/1	BCM (E)
I-008	B/10	Rear View Mirror Adjustment Switch
I-009	B/8	Luggage Compartment Opener Switch
I-010	W/16	to Front Left Door Wire Harness Connector F-007
I-011	W/14	to Front Left Door Wire Harness Connector F-006
I-012	-	Ground
I-013	B/16	Diagnostic Interface

Connector Code	Connector Color/Pin	Connector Name
I-014	Gr/6	Headlight Adjustment Switch
I-015	W/12	BCM (D)
I-016	W/2	Ignition Switch Light
I-017	W/4	Key Switch
I-018	Y/2	to Spiral Cable Connector I-048
I-019	Lg/1	to Spiral Cable Connector I-049
I-020	W/2	Cigarette Lighter
I-021	W/2	to Instrument Panel Wire Harness Connector I-022
I-022	W/2	to Cigarette Lighter Wire Harness Connector I-021
I-023	G/32	SRS Control Module
I-024	-	Ground
I-025	B/8	USB 1
I-026	-	Ground
I-027	-	Ground
I-028	-	Ground
I-029	W/14	to Front Right Door Wire Harness Connector H-004
I-030	W10	to Front Right Door Wire Harness Connector H-003
I-031	W/15	to A/C Wire Harness Connector K-003
I-032	B/8	Immobilizer Control Module
I-033	B/6	Hazard Switch
I-034	G/2	Front Passenger Airbag
I-035	B/1	Antenna
I-036	B/8	USB 2
I-037	B/16	Audio
I-038	B/4	Adjustment Switch
I-039	Lg/2	Anti-theft Indicator
I-040	W/4	to Spiral Cable Connector I-050
I-041	B/10	Wiper Switch
I-042	L/6	Ignition Switch
I-043	L/32	Instrument Cluster
I-044	Lg/4	Brake Switch
I-045	W/13	Combination Light Switch
I-046	G/32	BCM (A)
I-047	W/8	to Body Wire Harness Connector B-021
I-048	Y/2	to Instrument Panel Wire Harness Connector I-018
I-049	Lg/1	to Instrument Panel Wire Harness Connector I-019
I-050	W/4	to Instrument Panel Wire Harness Connector I-040

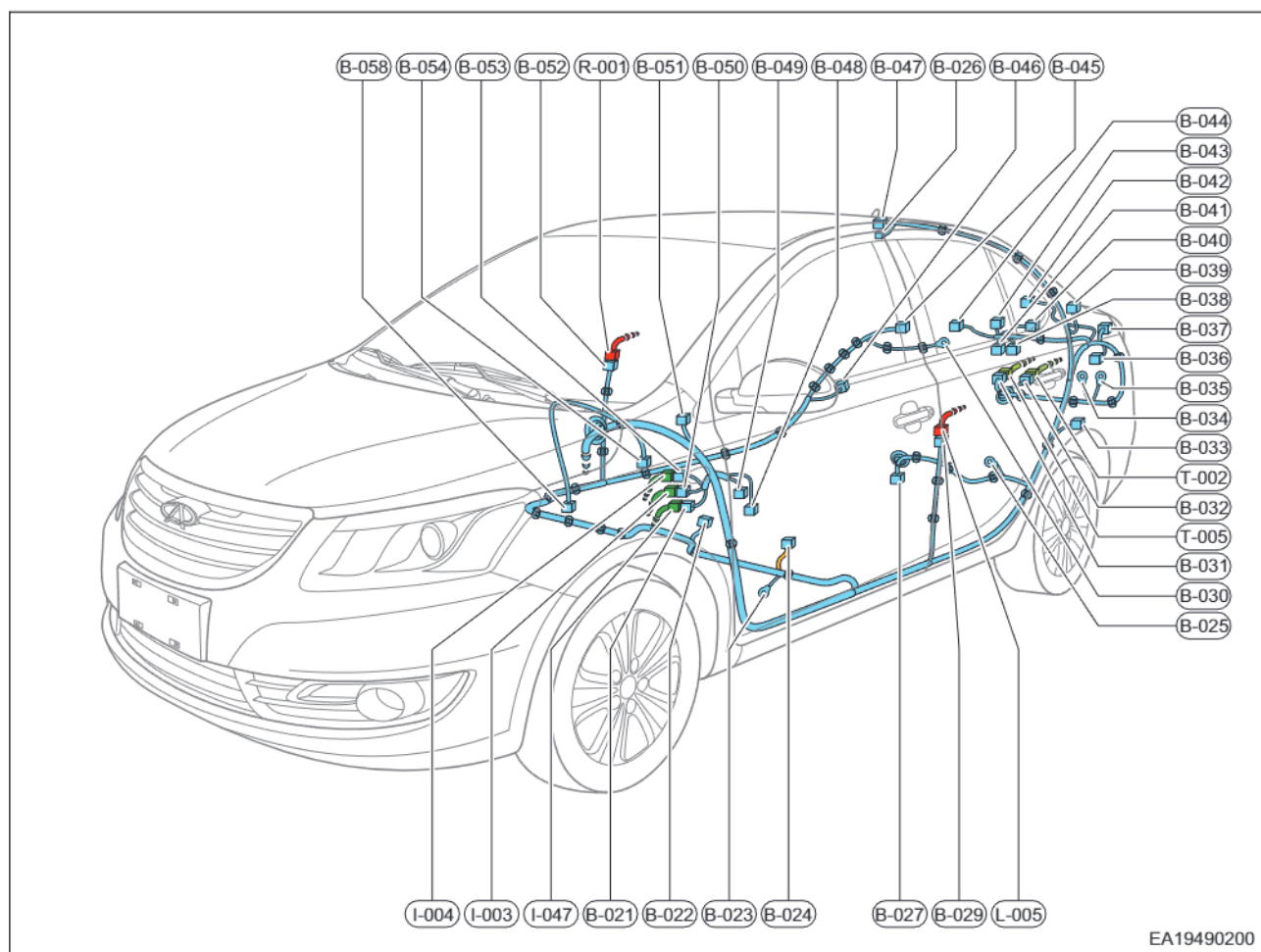
Connector Code	Connector Color/Pin	Connector Name
I-051	Y/2	Driver Airbag
I-052	Lg/1	Horn Switch
I-053	W/4	Remote Audio System Controls

Body Wire Harness



Connector Code	Connector Color/Pin	Connector Name
B-001	B/64	ECU 2
B-002	B/2	Anti-theft Horn
B-003	-	Ground
B-004	B/4	A/C High/Low Pressure Switch
B-005	B/2	Front Right Wheel Speed Sensor
B-006	-	Ground
B-007	B/26	ABS Control Module
B-008	B/16	to Engine Compartment Wire Harness Connector E-038
B-009	-	Fuse Box
B-010	W/4	Engine Compartment Fuse and Relay Box (E)
B-011	Lg/2	Engine Compartment Fuse and Relay Box (F)
B-012	W/20	Engine Compartment Fuse and Relay Box (D)B-013W/ 18 Engine Compartment Fuse and Relay Box (C)
B-014	W/16	Engine Compartment Fuse and Relay Box (A)
B-015	B/2	Front Left Wheel Speed Sensor
B-016	-	Ground

Connector Code	Connector Color/Pin	Connector Name
Ground	W/14	Engine Compartment Fuse and Relay Box (K)
B-018	W/2	Brake Fluid Level Sensor
B-019	B/6	Front Wiper Motor
B-020	B/16	to Engine Wire Harness Connector E-012

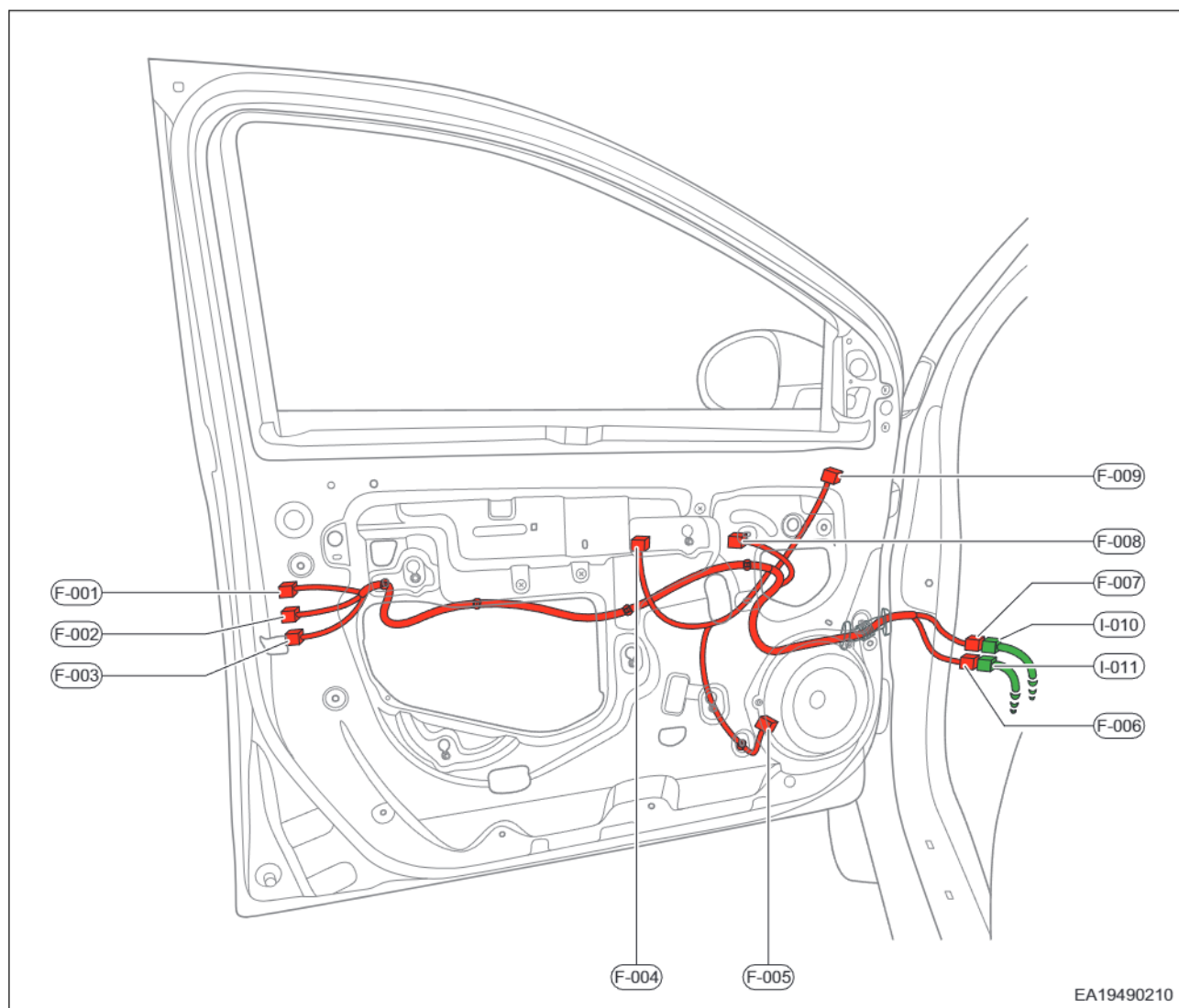


EA19490200

Connector Code	Connector Color/Pin	Connector Name
B-021	W/8	to Instrument Panel Wire Harness Connector I-047
B-022	W/1	Parking Brake Switch
B-023	-	Ground
B-024	W/2	Driver Seat Belt Switch
B-025	-	Ground
B-026	Gr/1	Antenna
B-027	B/5	Fuel Level Sensor and Fuel Pump
B-029	W/14	to Rear Left Door Wire Harness Connector L-005
B-030	-	Ground
B-031	B/8	to Rear Bumper Wire Harness Connector T-005

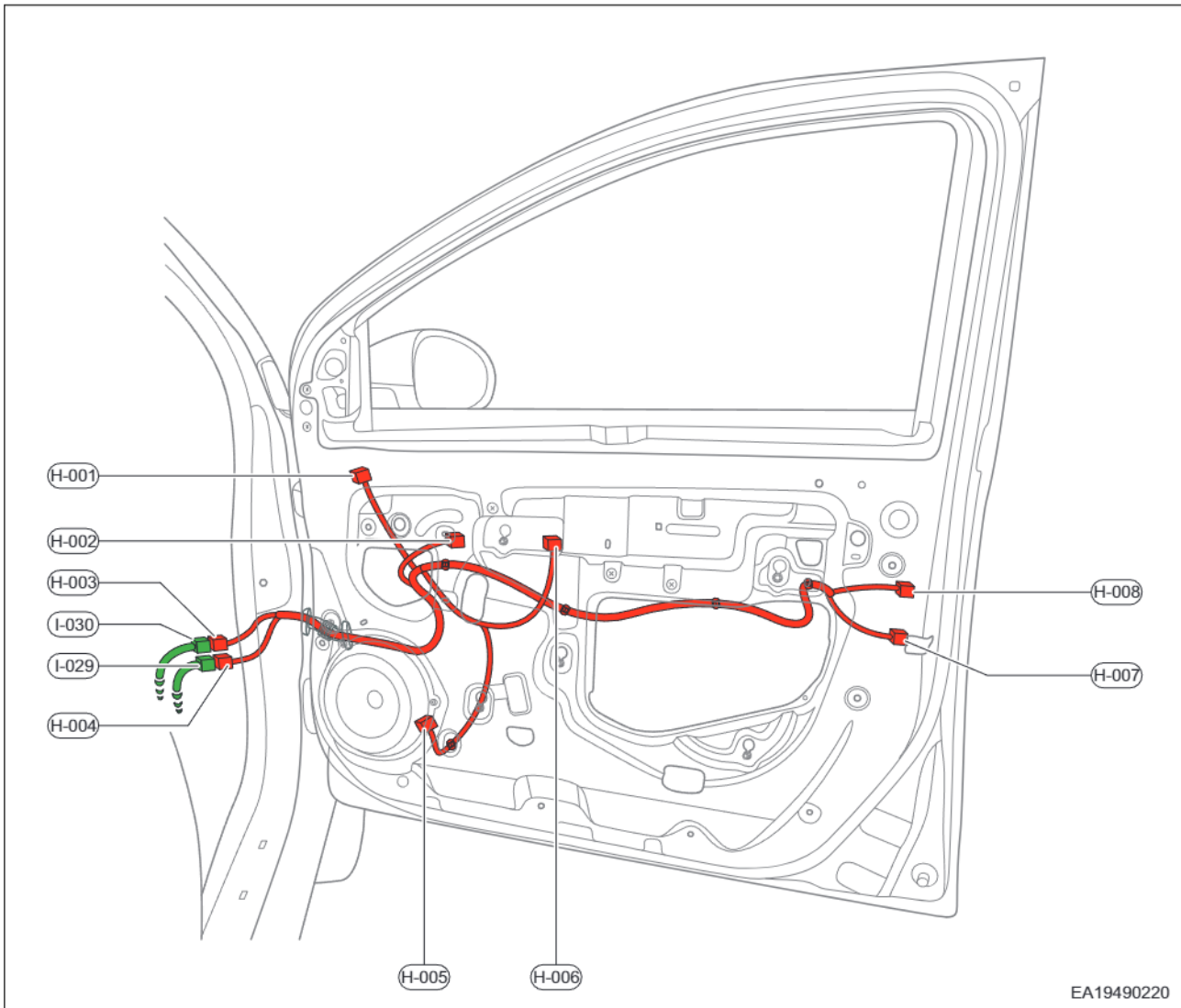
Connector Code	Connector Color/Pin	Connector Name
B-032	B/4	to Rear Bumper Wire Harness Connector T-002
B-033	W/2	Rear Left Wheel Speed Sensor
B-034	-	Ground
B-035	-	Ground
B-036	W/16	Reversing Radar Sensor
B-037	W/6	Rear Left Combination Light
B-038	G/1	Luggage Compartment Light 1
B-039	B/1	Rear Defroster
B-040	B/2	Rear Left Low Speaker
B-041	G/1	Luggage Compartment Light 2
B-042	W/3	Tail Door Lock
B-043	W/2	High Mounted Stop Light
B-044	B/2	Rear Right Low Speaker
B-045	W/6	Rear Right Combination Light
B-046	W/2	Rear Right Wheel Speed Sensor
B-047	W/1	Antenna Amplifier
B-048	Gr/1	BCM (F) Power Supply
B-049	W/20	BCM (C)
B-050	W/42	to Instrument Panel Wire Harness Connector I-003
B-051	Gr/1	Antenna
B-052	W/14	to Rear Right Door Wire Harness Connector R-001
B-053	L/42	to Instrument Panel Wire Harness Connector I-004
B-054	B/2	Clutch Switch
B-058	B/6	Electronic Accelerator Pedal

Front Left Door Wire Harness



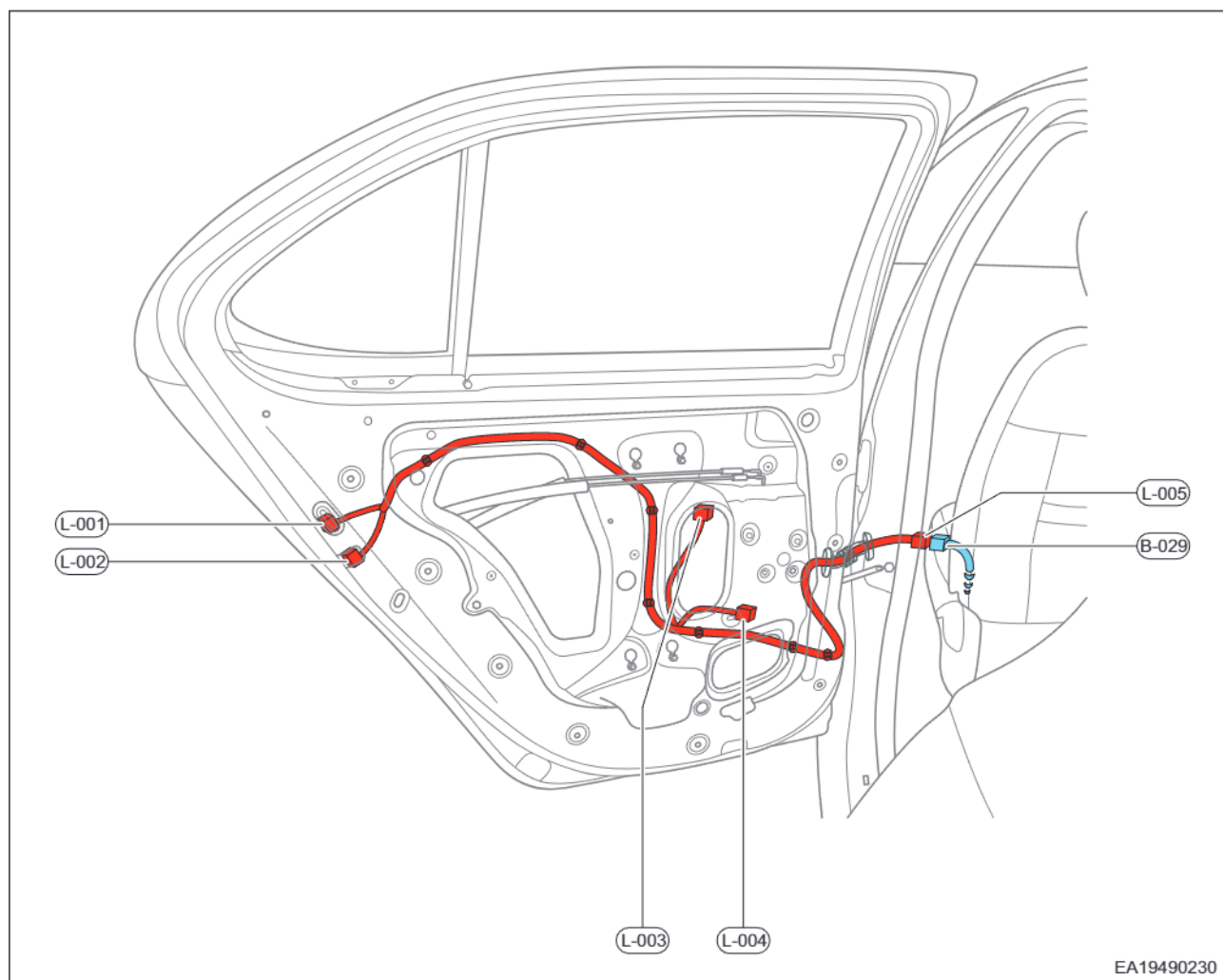
Connector Code	Connector Color/Pin	Connector Name
F-001	B/4	Front Left Door Contact Switch
F-002	Gr/4	Front Left Door Lock Actuator
F-003	B/2	Front Left Door Lock Motor
F-004	Br/16	Front Left Power Window Switch
F-005	B/2	Front Left Low Speaker
F-006	W/14	to Instrument Panel Wire Harness Connector I-011
F-007	W/16	to Instrument Panel Wire Harness Connector I-010
F-008	Gr/2	Front Left Power Window Regulator Motor
F-009	W/12	Power Rear View Mirror Motor

Front Right Door Wire Harness



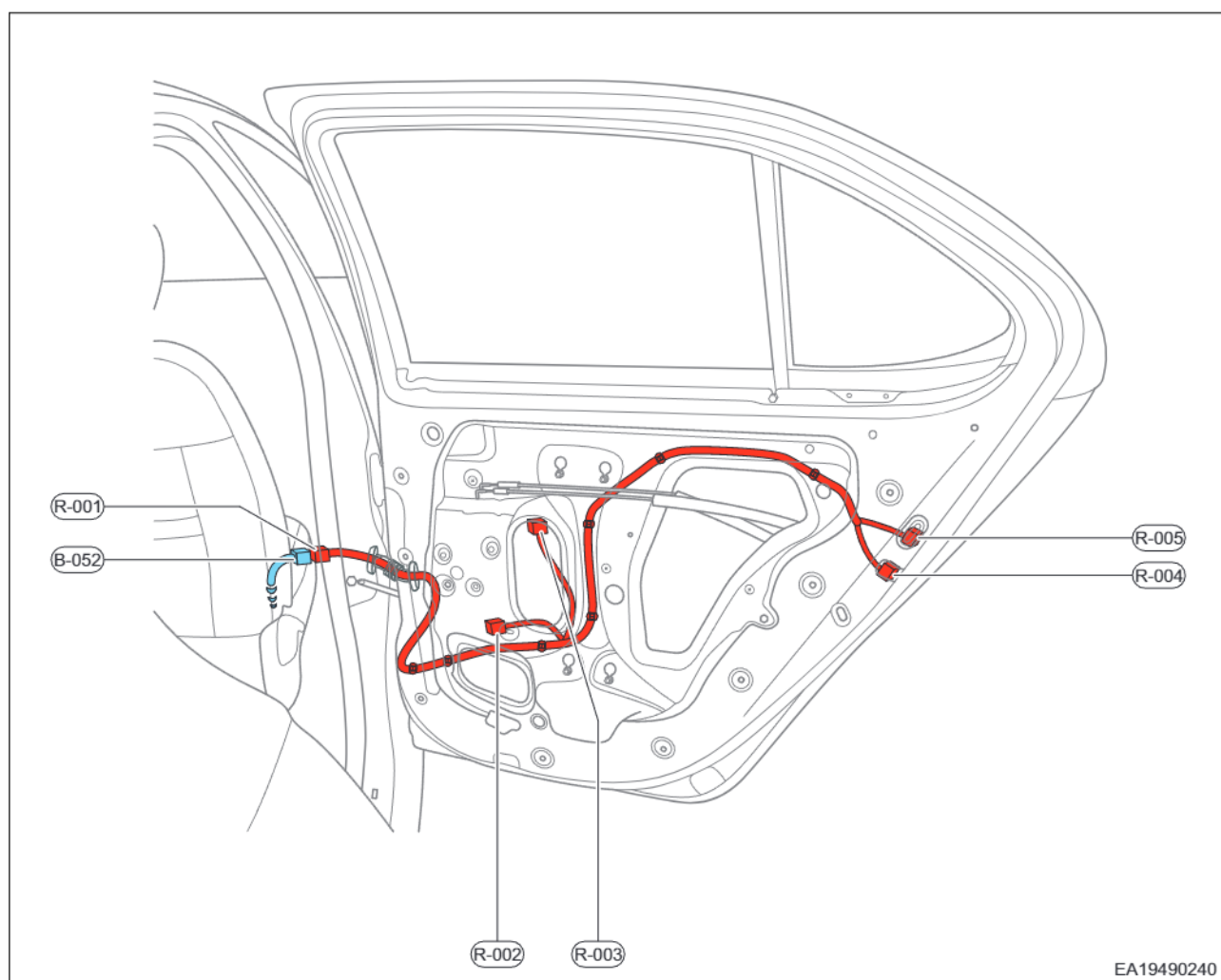
Connector Code	Connector Color/Pin	Connector Name
H-001	W/12	Power Rear View Mirror Motor
H-002	Gr/2	Front Right Power Window Regulator Motor
H-003	W/10	to Instrument Panel Wire Harness Connector I-030
H-004	W/14	to Instrument Panel Wire Harness Connector I-029
H-005	B/2	Front Right Low Speaker
H-006	B/10	Front Right Power Window Switch
H-007	B/2	Front Right Door Lock Motor
H-008	B/4	Front Right Door Contact Switch

Rear Left Door Wire Harness



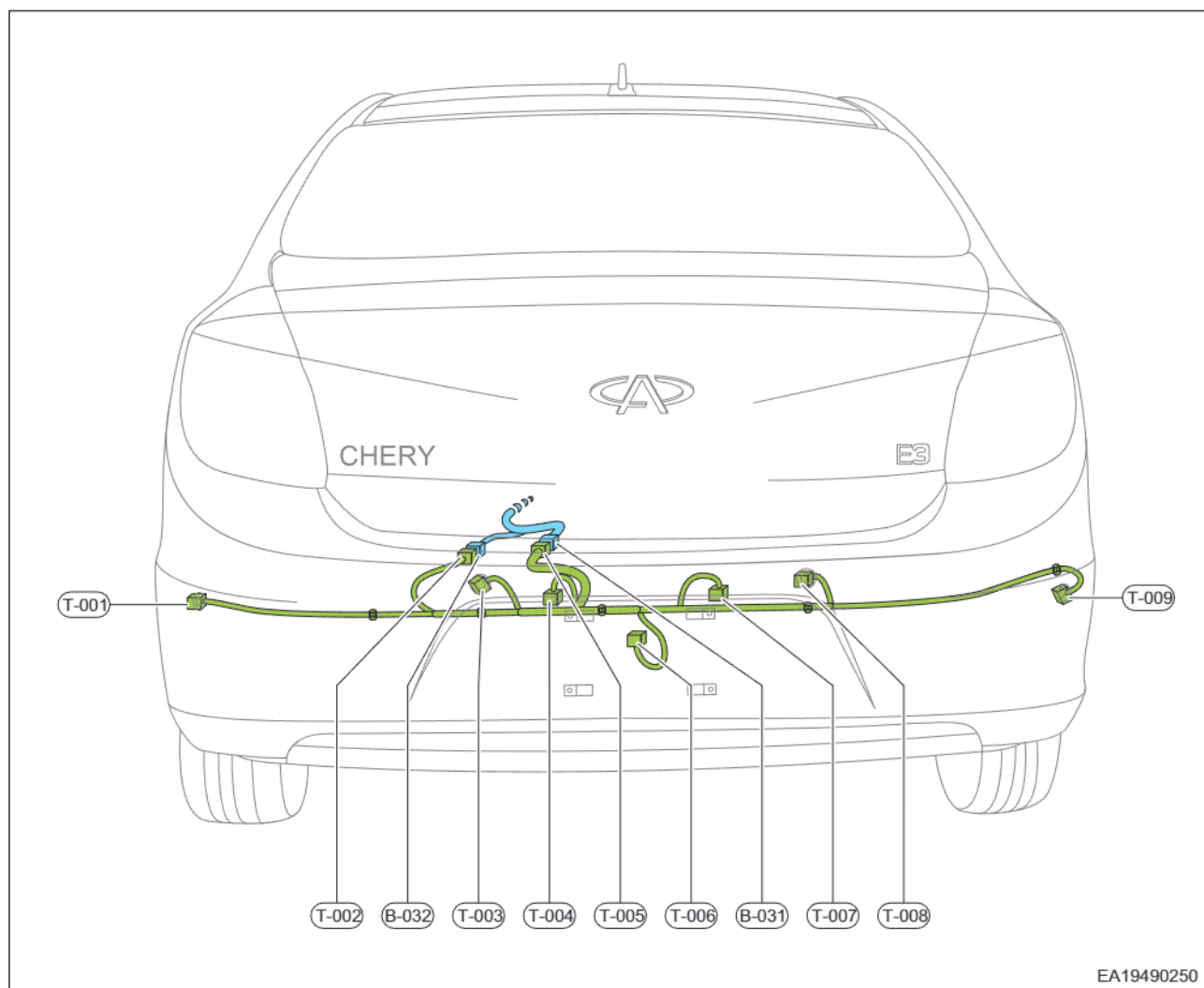
Connector Code	Connector Color/Pin	Connector Name
L-001	B/4	Rear Left Door Contact Switch
L-002	B/2	Rear Left Door Lock Motor
L-003	B/10	Rear Left Power Window Switch
L-004	Gr/2	Rear Left Power Window Regulator Motor
L-005	W/14	to Body Wire Harness Connector B-029

Rear Right Door Wire Harness



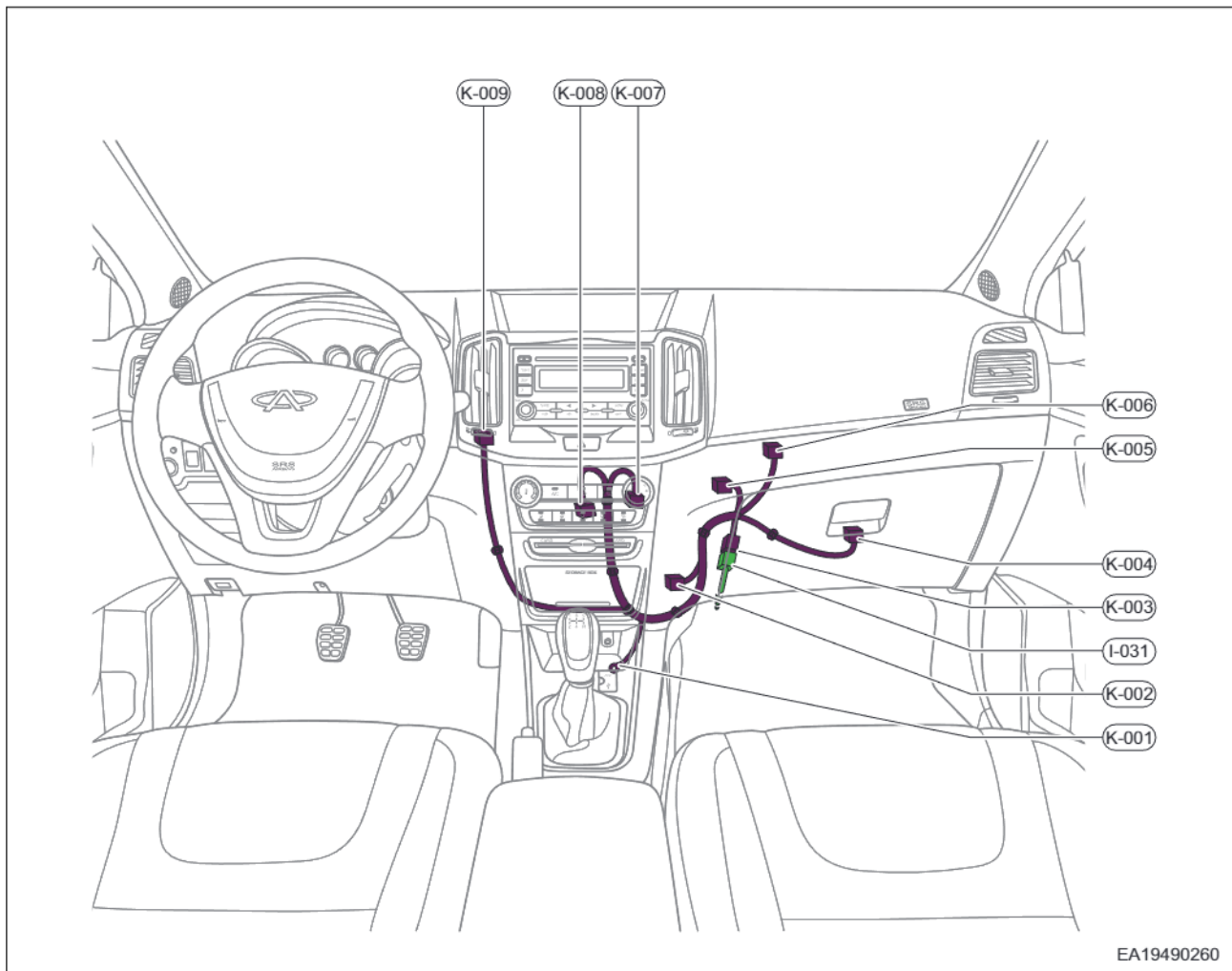
Connector Code	Connector Color/Pin	Connector Name
R-001	W/14	to Body Wire Harness Connector B-052
R-002	Gr/2	Rear Right Power Window Regulator Motor
R-003	B/10	Rear Right Power Window Switch
R-004	B/2	Rear Right Door Lock Motor
R-005	B/4	Rear Right Door Contact Switch

Rear Bumper Wire Harness



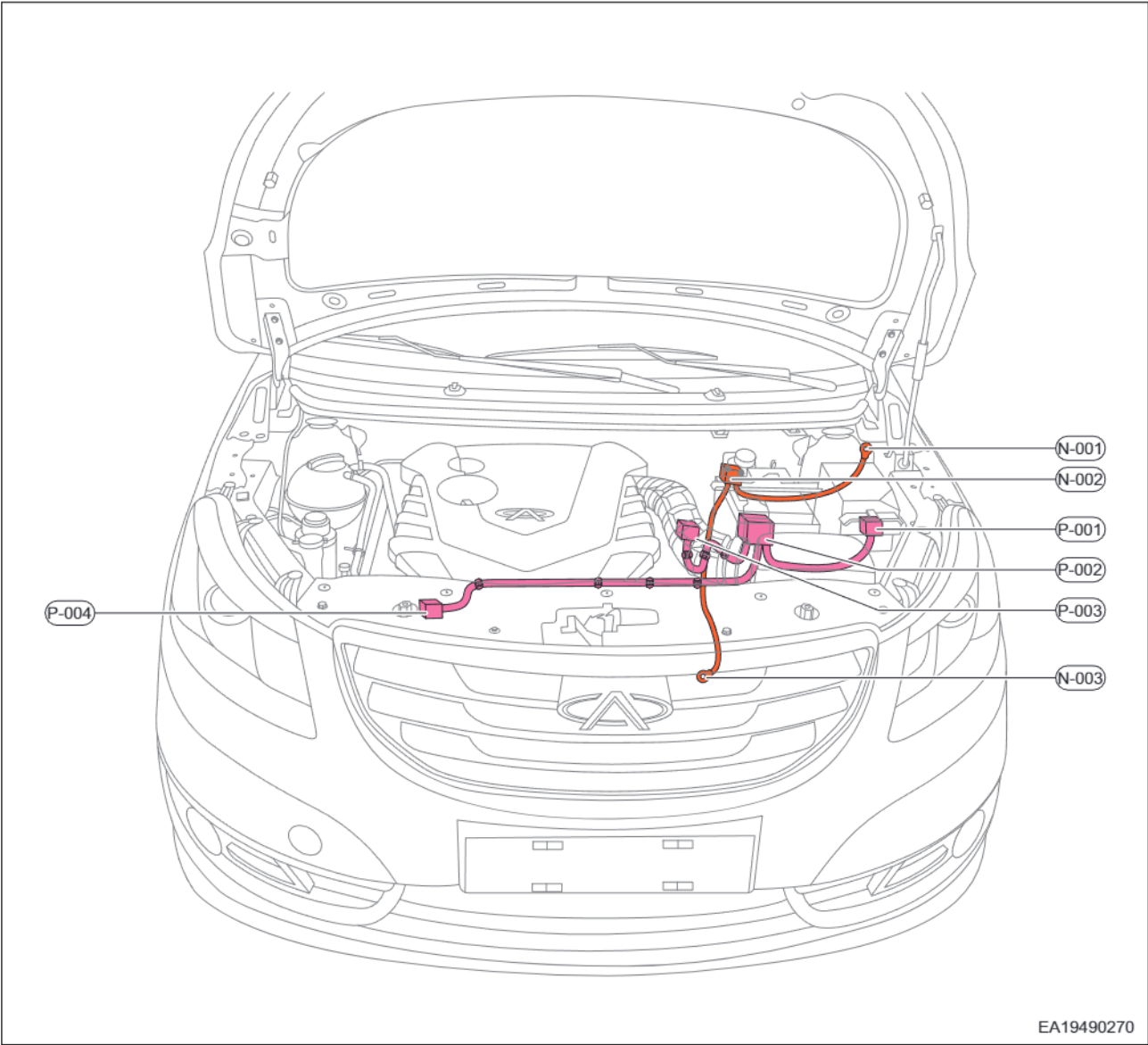
Connector Code	Connector Color/Pin	Connector Name
T-001	L/2	Rear Left Radar Sensor
T-002	B/4	to Body Wire Harness Connector B-032
T-003	L/2	Left Center Radar Sensor
T-004	B/2	Left License Plate Light
T-005	B/8	to Body Wire Harness Connector B-031
T-006	B/4	Camera
T-007	B/2	Right License Plate Light
T-008	L/2	Right Center Radar Sensor
T-009	L/2	Rear Right Radar Sensor

A/C Wire Harness



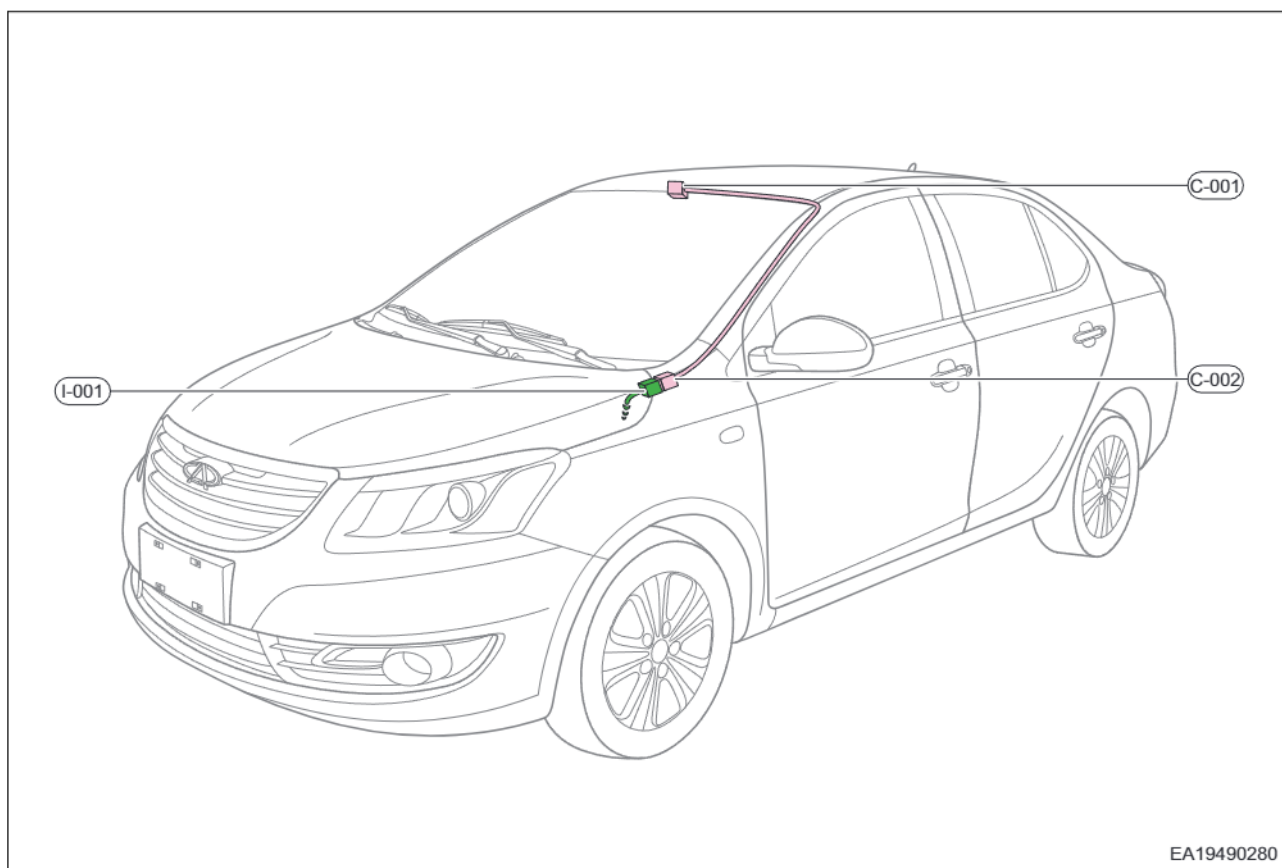
Connector Code	Connector Color/Pin	Connector Name
K-001	-	Ground
K-002	W/2	Evaporator Temperature Sensor
K-003	W/15	To Instrument Panel Wire Harness Connector I-031
K-004	W/2	Blower
K-005	W/4	Speed Resistor
K-006	L/6	Inner and Outer Circulation Motor
K-007	W/6	Blower Switch
K-008	B/20	HVAC Control Panel
K-009	W/7	Mode Damper Motor

Battery Positive/Negative Wire Harness



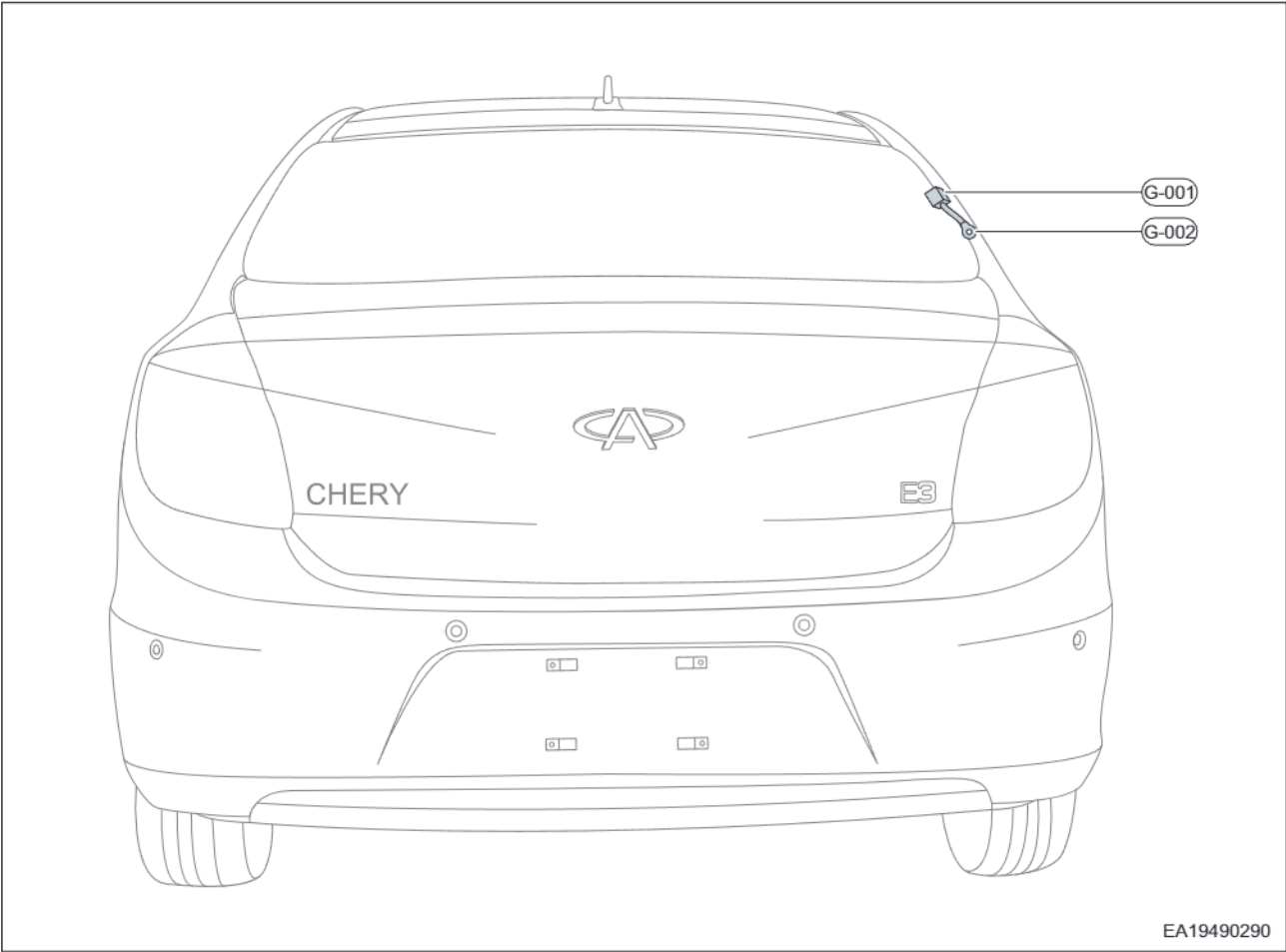
Connector Code	Connector Color/Pin	Connector Name
P-001	-	Engine Compartment Fuse Box Power Supply
P-002	-	Power Fuse Box
P-003	-	Starter Power Supply
P-004	-	Generator
N-001	-	Body Ground
N-002	-	Battery Negative
N-003	-	Transmission Ground

Roof Wire Harness



Connector Code	Connector Color/Pin	Connector Name
C-001	W/6	Ceiling Light
C-002	W/10	to Instrument Panel Wire Harness Connector I-001

Defroster Negative Wire Harness



Connector Code	Connector Color/Pin	Connector Name
G-001	B/1	Defroster Negative
G-002	-	Ground

A

Abbreviation Table, Introduction	02-26
Adjustment Item, Maintenance	05-7
Air Conditioning	29-1
Air Conditioning, Preparation	03-32
Air Conditioning, Service Specifications	04-35
Audio System	37-1
Audio System, Preparation	03-39
Audio System, Service Specifications	04-43
Axle	21-1
Axle, Preparation	03-24
Axle, Service Specifications	04-24

B

Body Dimensions	48-1
Brake	25-1
Brake Control System	24-1
Brake Control System, Preparation	03-27
Brake Control System, Service Specifications	04-29
Brake, Preparation	03-28
Brake, Service Specifications	04-30

C

Circuit Diagnosis Information, Introduction	02-14
Circuit Information, Introduction	02-21
Clutch	18-1
Clutch, Preparation	03-22
Clutch, Service Specifications	04-21

D

Diagnosis & Testing, Air Conditioning	29-12
Diagnosis & Testing, Audio System	37-9
Diagnosis & Testing, Axle	21-9
Diagnosis & Testing, Brake	25-9
Diagnosis & Testing, Brake Control System	24-13
Diagnosis & Testing, Clutch	18-7
Diagnosis & Testing, Differential	20-6
Diagnosis & Testing, Door Lock	35-14
Diagnosis & Testing, Engine Immobilizer	32-6
Diagnosis & Testing, Hydraulic Assist Steering	28-7
Diagnosis & Testing, Instrument Cluster	36-10
Diagnosis & Testing, Lighting System	33-19
Diagnosis & Testing, Parking Brake	26-6
Diagnosis & Testing, QR515MHA Transmission	17-10
Diagnosis & Testing, Rear View Mirror	42-7
Diagnosis & Testing, Reversing Radar System	38-8
Diagnosis & Testing, Seat Belt	31-7
Diagnosis & Testing, SQR477F Charging System	16-6
Diagnosis & Testing, SQR477F Cooling System	12-11
Diagnosis & Testing, SQR477F Emission Control System	09-6
Diagnosis & Testing, SQR477F Engine Management System	06-18
Diagnosis & Testing, SQR477F Engine Mechanical	07-17
Diagnosis & Testing, SQR477F Exhaust System	11-6
Diagnosis & Testing, SQR477F Fuel Supply System	08-10

INDEX

Diagnosis & Testing, SQR477F Ignition System	14-6
Diagnosis & Testing, SQR477F Intake System	10-8
Diagnosis & Testing, SQR477F Lubrication System	13-8
Diagnosis & Testing, SQR477F Starting System	15-6
Diagnosis & Testing, Steering Column	27-6
Diagnosis & Testing, Supplemental Restraint System	30-8
Diagnosis & Testing, Suspension	22-9
Diagnosis & Testing, Tire and Wheel	23-6
Diagnosis & Testing, Windshield/Window Glass	41-12
Diagnosis & Testing, Wiper and Washer	34-7
Diagnosis & Testing, Horn	39-6
Differential	20-1
Differential, Preparation	03-23
Differential, Service Specifications	04-23
Door Lock	35-1
Door Lock, Preparation	03-37
Door Lock, Service Specifications	04-41
Drive Shaft	19-1
Drive Shaft, Service Specifications	04-22

E

Engine Hood/Door	45-1
Engine Hood/Door, Preparation	03-45
Engine Hood/Door, Service Specifications	04-51
Engine Immobilizer	32-1
Engine Unit Repair, SQR477F Engine Mechanical	07-62
Exterior	46-1
Exterior, Preparation	03-46
Exterior, Service Specifications	04-53

G

General Information, Air Conditioning	29-3
General Information, Audio System	37-3
General Information, Axle	21-3
General Information, Body Dimensions	48-3
General Information, Brake	25-3
General Information, Brake Control System	24-3
General Information, Clutch	18-3
General Information, Differential	20-3
General Information, Door Lock	35-3
General Information, Drive Shaft	19-3
General Information, Engine Hood/Door	45-3
General Information, Engine Immobilizer	32-3
General Information, Exterior	46-3
General Information, Hydraulic Assist Steering	28-3
General Information, Instrument Cluster	36-3
General Information, Instrument Panel	43-3
General Information, Interior	47-3
General Information, Lighting System	33-3
General Information, Other System	40-3
General Information, Parking Brake	26-3
General Information, QR515MHA Transmission	17-3
General Information, Rear View Mirror	42-3
General Information, Reversing Radar System	38-3
General Information, Seat	44-3

General Information, Seat Belt	31-3
General Information, SQR477F Charging System	16-3
General Information, SQR477F Cooling System	12-3
General Information, SQR477F Emission Control System	09-3
General Information, SQR477F Engine Management System	06-3
General Information, SQR477F Engine Mechanical	07-3
General Information, SQR477F Exhaust System	11-3
General Information, SQR477F Fuel Supply System	08-3
General Information, SQR477F Ignition System	14-3
General Information, SQR477F Intake System	10-3
General Information, SQR477F Lubrication System	13-3
General Information, SQR477F Starting System	15-3
General Information, Steering Column	27-3
General Information, Supplemental Restraint System	30-3
General Information, Suspension	22-3
General Information, Tire and Wheel	23-3
General Information, Windshield/Window Glass	41-3
General Information, Wiper and Washer	34-3
General Information, Horn	39-3

H

Horn	39-1
Horn, Preparation	03-41
Horn, Service Specifications	04-45
Hydraulic Assist Steering	28-1
Hydraulic Assist Steering, Preparation	03-31
Hydraulic Assist Steering, Service Specifications	04-34

I

Inspection Items, Maintenance	05-8
Instrument Cluster	36-1
Instrument Cluster, Preparation	03-38
Instrument Cluster, Service Specifications	04-42
Instrument Panel	43-1
Instrument Panel, Preparation	03-44
Instrument Panel, Service Specifications	04-48
Interior	47-1
Interior, Preparation	03-47
Interior, Service Specifications	04-54
Introduction	02-1

L

Lighting System	33-1
Lighting System, Preparation	03-35
Lighting System, Service Specifications	04-39

M

Maintenance	05-1
Maintenance Items, Maintenance	05-3

O

On-vehicle Service, Air Conditioning	29-15
On-vehicle Service, Audio System	37-11
On-vehicle Service, Axle	21-10
On-vehicle Service, Brake	25-12
On-vehicle Service, Brake Control System	24-57
On-vehicle Service, Clutch	18-8
On-vehicle Service, Differential	20-7

INDEX

On-vehicle Service, Door Lock	35-40
On-vehicle Service, Drive Shaft	19-5
On-vehicle Service, Engine Hood/Door	45-9
On-vehicle Service, Engine Immobilizer	32-7
On-vehicle Service, Exterior	46-7
On-vehicle Service, Hydraulic Assist Steering	28-12
On-vehicle Service, Instrument Cluster	36-34
On-vehicle Service, Instrument Panel	43-10
On-vehicle Service, Interior	47-8
On-vehicle Service, Lighting System	33-61
On-vehicle Service, Other System	40-5
On-vehicle Service, Parking Brake	26-7
On-vehicle Service, QR515MHA Transmission	17-12
On-vehicle Service, Rear View Mirror	42-8
On-vehicle Service, Reversing Radar System	38-9
On-vehicle Service, Seat	44-7
On-vehicle Service, Seat Belt	31-8
On-vehicle Service, SQR477F Charging System	16-7
On-vehicle Service, SQR477F Cooling System	12-14
On-vehicle Service, SQR477F Emission Control System	09-7
On-vehicle Service, SQR477F Engine Management System ...	06-196
On-vehicle Service, SQR477F Engine Mechanical	07-21
On-vehicle Service, SQR477F Exhaust System	11-7
On-vehicle Service, SQR477F Fuel Supply System	08-13
On-vehicle Service, SQR477F Ignition System	14-8
On-vehicle Service, SQR477F Intake System	10-9

On-vehicle Service, SQR477F Lubrication System	13-11
On-vehicle Service, SQR477F Starting System	15-8
On-vehicle Service, Steering Column	27-9
On-vehicle Service, Supplemental Restraint System	30-41
On-vehicle Service, Suspension	22-11
On-vehicle Service, Tire and Wheel	23-8
On-vehicle Service, Windshield/Window Glass	41-48
On-vehicle Service, Wiper and Washer	34-8
On-vehicle Service, Horn	39-15
Other System	40-1

P

Parking Brake	26-1
Parking Brake, Preparation	03-29
Parking Brake, Service Specifications	04-32
Preparation	03-1

Q

QR515MHA Transmission	17-1
QR515MHA Transmission, Preparation	03-20
QR515MHA Transmission, Service Specifications	04-19

R

Rear View Mirror	42-1
Rear View Mirror, Preparation	03-43
Rear View Mirror, Service Specifications	04-47
Replacement Instruction, Maintenance	05-6
Reversing Radar System	38-1
Reversing Radar System, Preparation	03-40
Reversing Radar System, Service Specifications	04-44

S

Seat.....	44-1
Seat Belt	31-1
Seat Belt, Preparation	03-34
Seat Belt, Service Specifications.....	04-38
Seat, Service Specifications.....	04-50
Service Information, Introduction.....	02-3
Service Specifications	04-1
SQR477F Charging System.....	16-1
SQR477F Charging System, Preparation	03-19
SQR477F Charging System, Service Specifications.....	04-18
SQR477F Cooling System	12-1
SQR477F Cooling System, Preparation	03-15
SQR477F Cooling System, Service Specifications.....	04-14
SQR477F Emission Control System	09-1
SQR477F Emission Control System, Preparation	03-12
SQR477F Emission Control System, Service Specifications.....	04-11
SQR477F Engine Management System	06-1
SQR477F Engine Management System, Preparation	03-3
SQR477F Engine Management System, Service Specifications.....	04-3
SQR477F Engine Mechanical.....	07-1
SQR477F Engine Mechanical, Preparation	03-5
SQR477F Engine Mechanical, Service Specifications.....	04-4
SQR477F Exhaust System	11-1
SQR477F Exhaust System, Preparation	03-14
SQR477F Exhaust System, Service Specifications.....	04-13
SQR477F Fuel Supply System	08-1
SQR477F Fuel Supply System, Preparation	03-11
SQR477F Fuel Supply System, Service Specifications.....	04-10
SQR477F Ignition System.....	14-1

SQR477F Ignition System, Preparation	03-17
SQR477F Ignition System, Service Specifications.....	04-16
SQR477F Intake System.....	10-1
SQR477F Intake System, Preparation	03-13
SQR477F Intake System, Service Specifications.....	04-12
SQR477F Lubrication System.....	13-1
SQR477F Lubrication System, Preparation	03-16
SQR477F Lubrication System, Service Specifications.....	04-15
SQR477F Starting System	15-1
SQR477F Starting System, Preparation	03-18
SQR477F Starting System, Service Specifications.....	04-17
Steering Column.....	27-1
Steering Column, Preparation	03-30
Steering Column, Service Specifications.....	04-33
Supplemental Restraint System	30-1
Supplemental Restraint System, Preparation	03-33
Supplemental Restraint System, Service Specifications.....	04-37
Suspension	22-1
Suspension, Preparation	03-26
Suspension, Service Specifications.....	04-26

T

Tire and Wheel	23-1
Tire and Wheel, Service Specifications.....	04-28

V

Vehicle Fuse & Relay, Wire Harness	49-26
Vehicle Ground Distribution, Wire Harness	49-21
Vehicle Information, Introduction	02-10
Vehicle Power Distribution, Wire Harness	49-12

INDEX

Vehicle Wire Harness Layout, Wire Harness	49-30
--	-------

W

Wheel Alignment, Suspension	22-40
Windshield/Window Glass	41-1
Windshield/Window Glass, Preparation	03-42
Windshield/Window Glass, Service Specifications	04-46
Wiper and Washer	34-1
Wiper and Washer, Preparation	03-36
Wiper and Washer, Service Specifications	04-40
Wire Harness	49-1
Wire Harness Information, Wire Harness	49-3

