



مدیران خودرو
خدمات پس از فروش



سیستم برق خودروی Tiggo 5

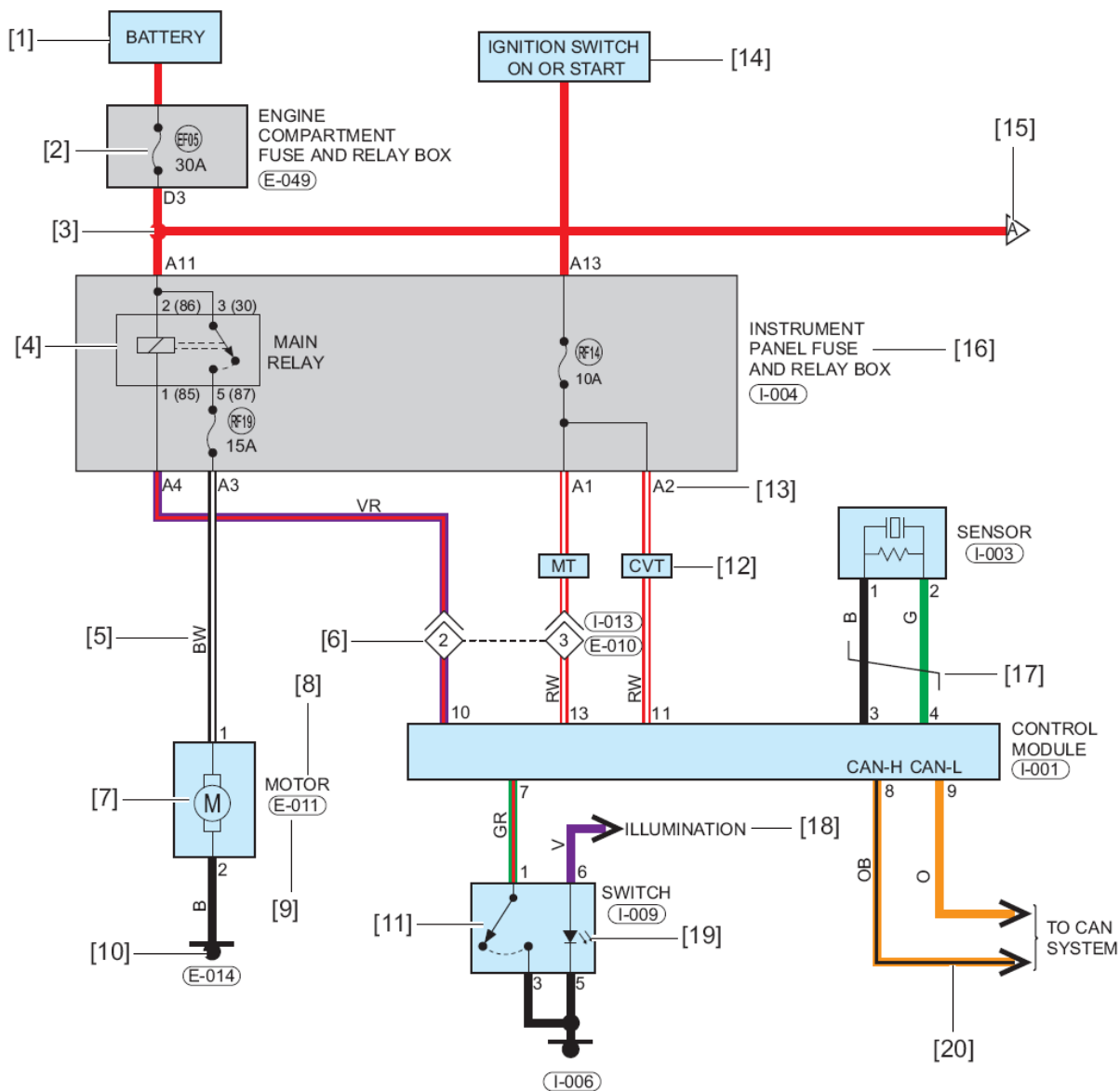


مدیریت فنی و مهندسی
تهیه کننده: محمد صادق قناعتیان

ویرایش دوم

کد: ELC-79-2

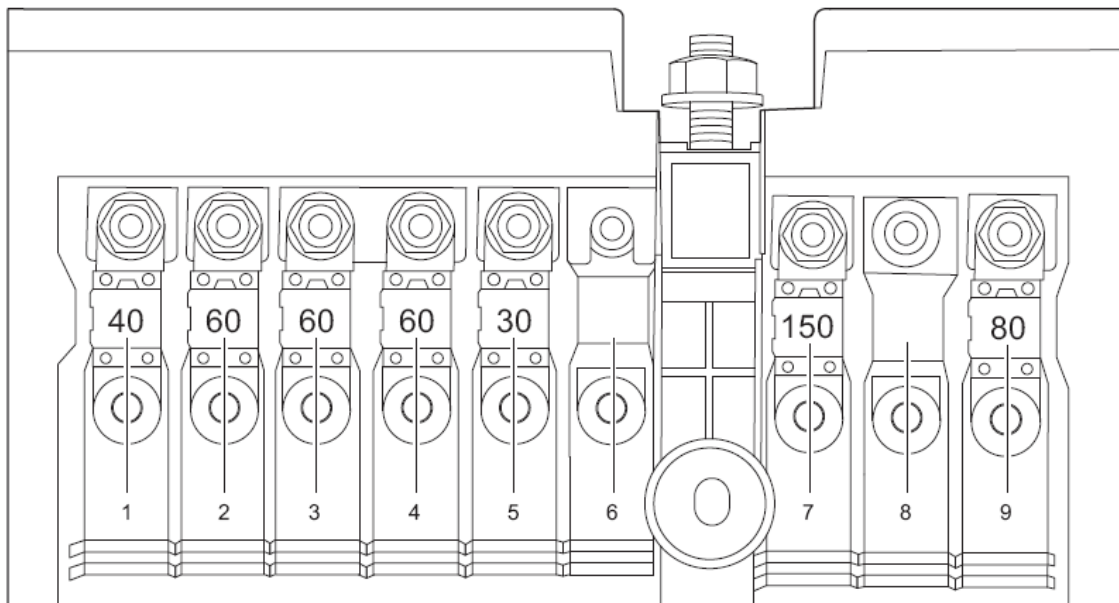
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B = Black;
W = White;
R = Red;
G = Green;
L = Blue;
Y = Yellow;
Br = Brown;
O = Orange;
Gr = Gray;
P = Pink;
V = Violet;
Lg = Light Green.

E = Engine 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 = Back Door Wire Harness;
P = Battery Wire Harness;
N = Ground Wire Harness;
K = A/C System Wire Harness.

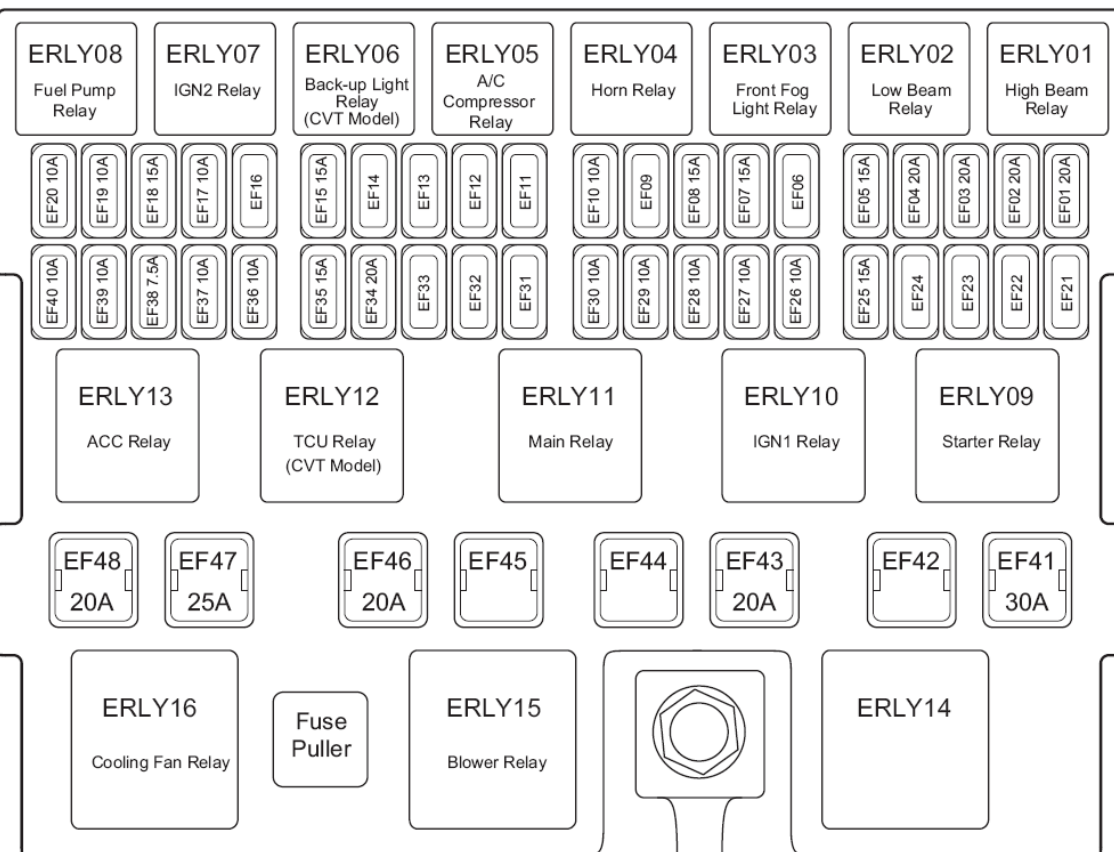
جعبه فیوز قدرت



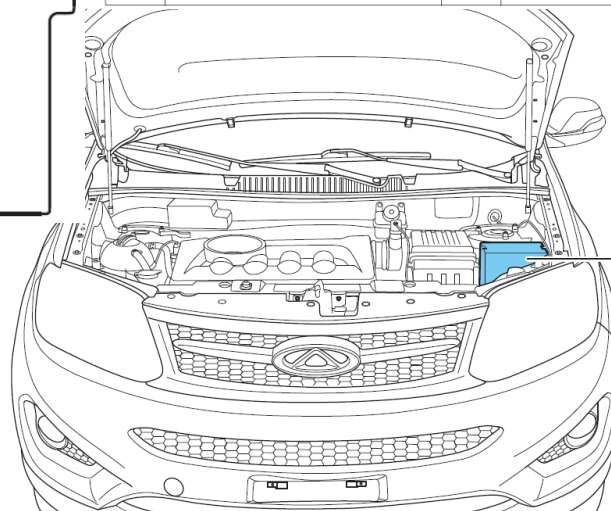
ET21060010

Power Fuse Description

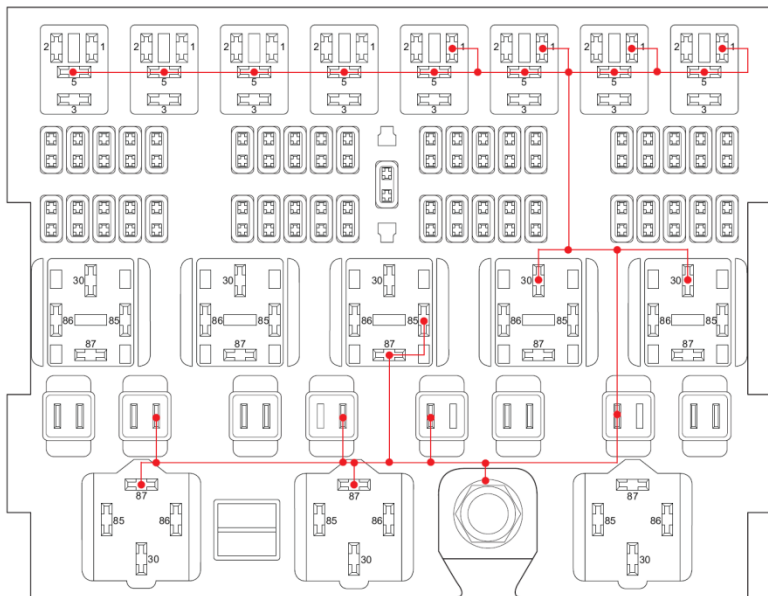
No.	Fuse	Description	No.	Fuse	Description
1	MF01	ABS/ESP	6	MF06	-
2	MF02	Fan	7	MF07	Alternator
3	MF03	BCM	8	MF08	-
4	MF04	IP Fuse and Relay Box B	9	MF09	EPS
5	MF05	Blower			



No.	Description	No.	Description
EF01	Right Headlight High Beam	EF25	Horn
EF02	Left Headlight High Beam	EF26	Spare
EF03	Right Headlight Low Beam	EF27	Air Flow Meter/Canister
EF04	Left Headlight Low Beam	EF28	Back-up Light Switch (for MT Model)
EF05	Front Fog Light	EF29	Alternator Excitation
EF06	-	EF30	Back-up Light/Reversing Radar (for CVT Model)
EF07	Ignition Coil	EF31	-
EF08	Injector/Camshaft Timing	EF32	-
EF09	-	EF33	-
EF10	A/C Compressor	EF34	IGN Power Supply
EF11	-	EF35	Fuel Pump
EF12	-	EF36	ABS/ESP
EF13	-	EF37	Spare
EF14	-	EF38	Fuel Pump Relay Coil/Fan Relay Coil
EF15	IGN2	EF39	Oxygen Sensor
EF16	-	EF40	ECM
EF17	ECM/TCU (for CVT Model)	EF41	Starter
EF18	Spare	EF42	-
EF19	TCU (for CVT Model)/ECM	EF43	IGN1
EF20	Spare	EF44	-
EF21	-	EF45	-
EF22	-	EF46	TCU (for CVT Model)
EF23	-	EF47	ABS/ESP
EF24	-	EF48	ACC



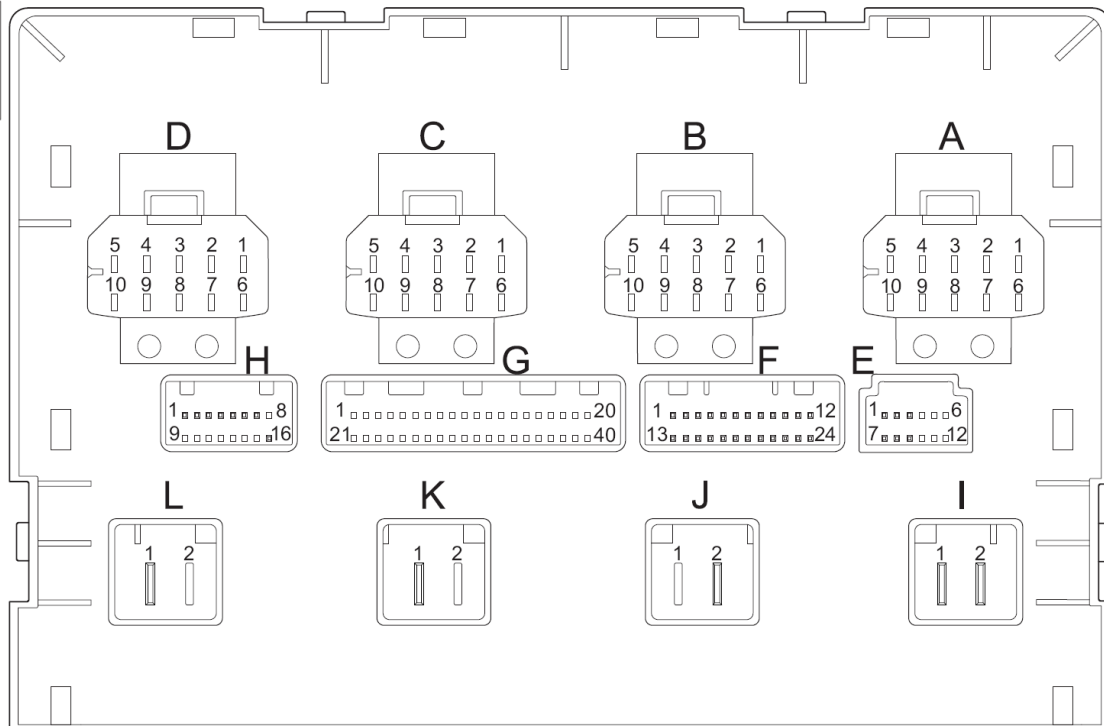
جعبه
فیوز
موتور

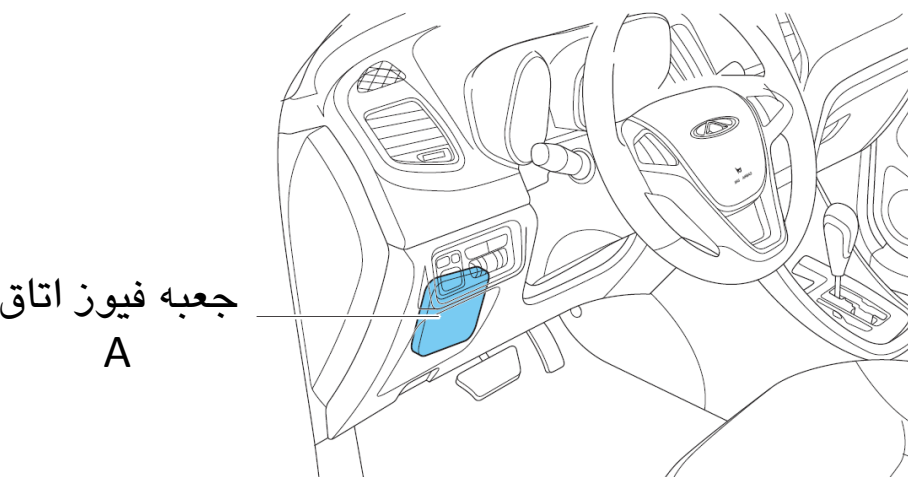
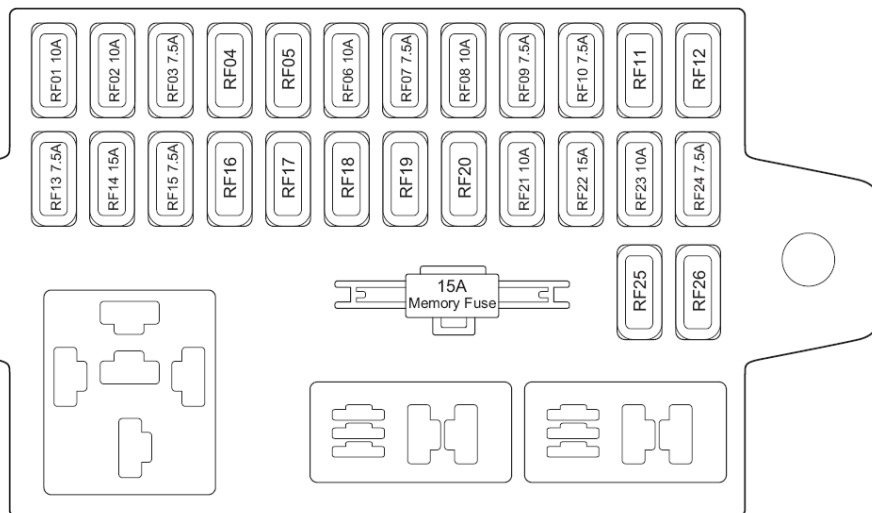


نمای جلوی جعبه فیوز موتور

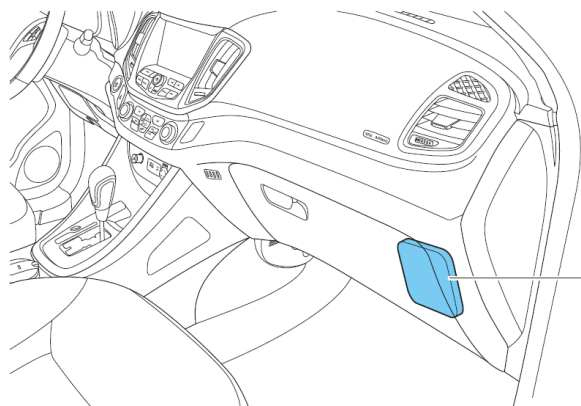
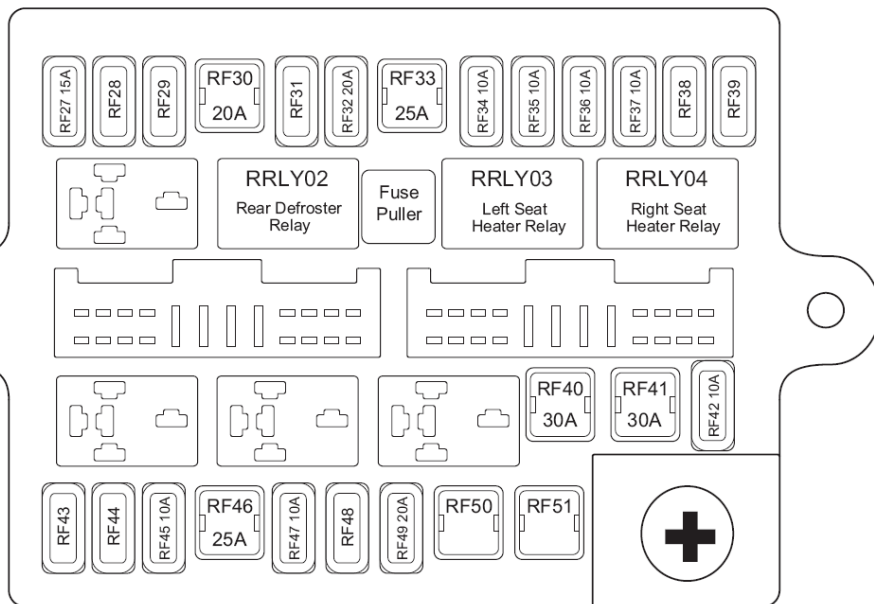


نمای پشت جعبه فیوز موتور



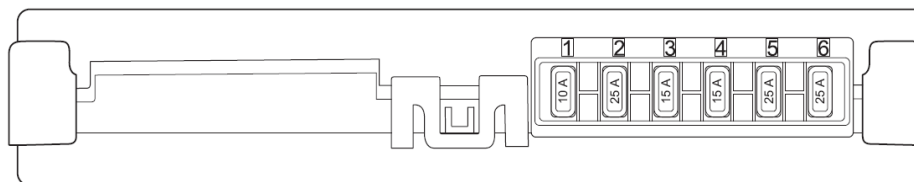


No.	Description	No.	Description
RF01	Reversing Radar	RF14	Cigarette Lighter
RF02	Sport Switch Backlight (for CVT Model)/ Headlight Adjustment Switch	RF15	Outside Rear View Mirror Adjustment Switch/Sunroof Switch/Seat Heater Relay Coil
RF03	Back-up Light Relay Coil (for CVT Model)	RF16	-
RF04	-	RF17	-
RF05	-	RF18	-
RF06	Steering Angle Sensor/ Instrument Cluster/ Front Passenger Seat Belt Reminder Light/ Diagnostic Interface/Engine Immobilizer/ ESP Indication	RF19	-
RF07	BCM/EPS/PEPS	RF20	-
RF08	Airbag	RF21	Automatic A/C Control Panel
RF09	Brake Switch/Yaw Rate Sensor	RF22	Audio System
RF10	A/C Control Panel	RF23	Instrument Cluster/Diagnostic Interface
RF11	-	RF24	Key Switch
RF12	-	RF25	-
RF13	Rear Defroster Relay Coil/Blower Relay Coil/Audio System/BCM	RF26	-

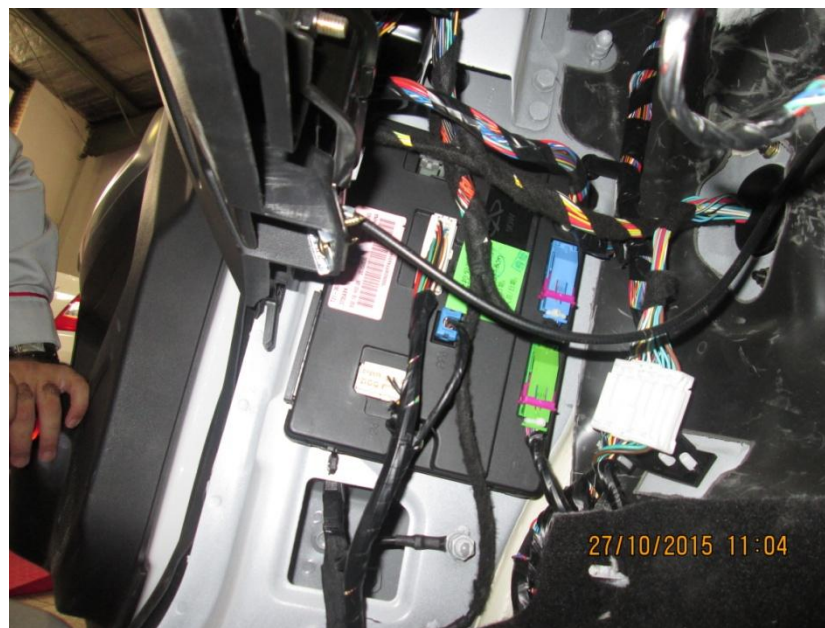


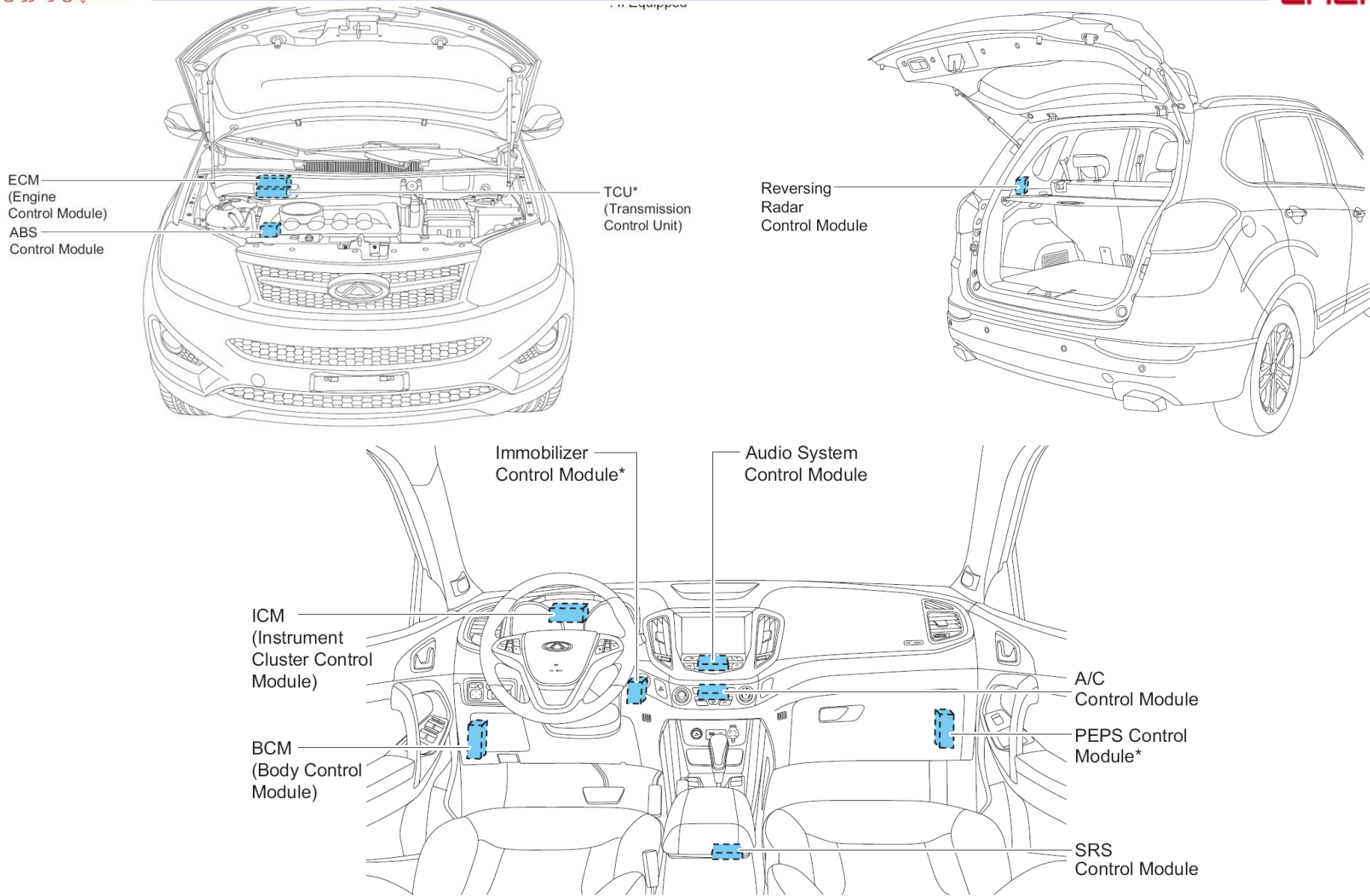
جعبه فیوز اتاق
B

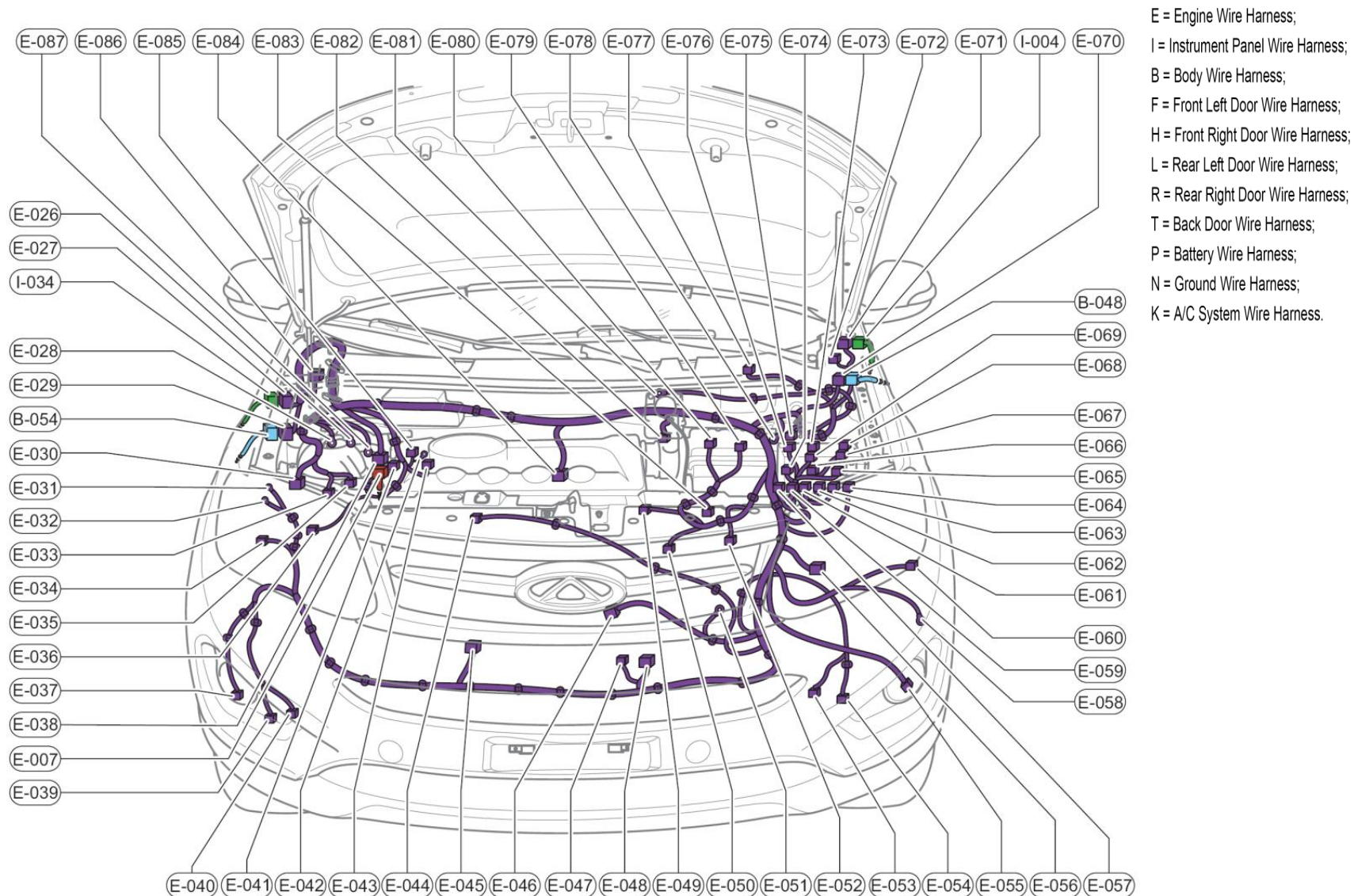
No.	Description	No.	Description
RF27	Spare	RF40	Right Window Jam Protection
RF28	-	RF41	Left Window Jam Protection
RF29	-	RF42	Outside Rear View Mirror Heating/ Defrosting Feedback Signal
RF30	IP Fuse and Relay Box A	RF43	-
RF31	-	RF44	-
RF32	Power Seat Adjustment	RF45	Backup Power Supply
RF33	Rear Defroster	RF46	Ignition Switch
RF34	Left Seat Heater	RF47	PEPS
RF35	Brake Light Switch	RF48	-
RF36	Reserve	RF49	Sunroof
RF37	Right Seat Heater	RF50	-
RF38	-	RF51	-
RF39	-		

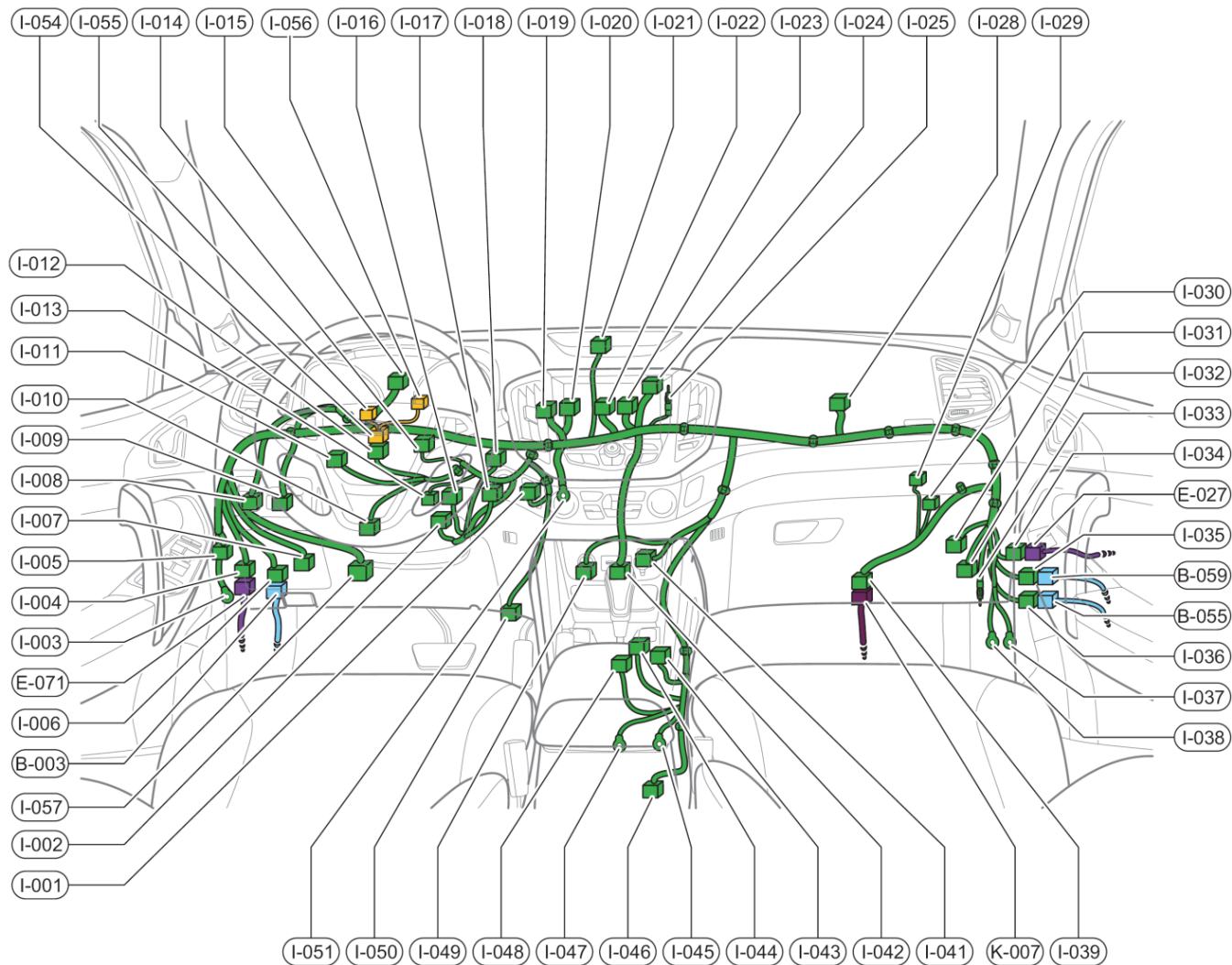


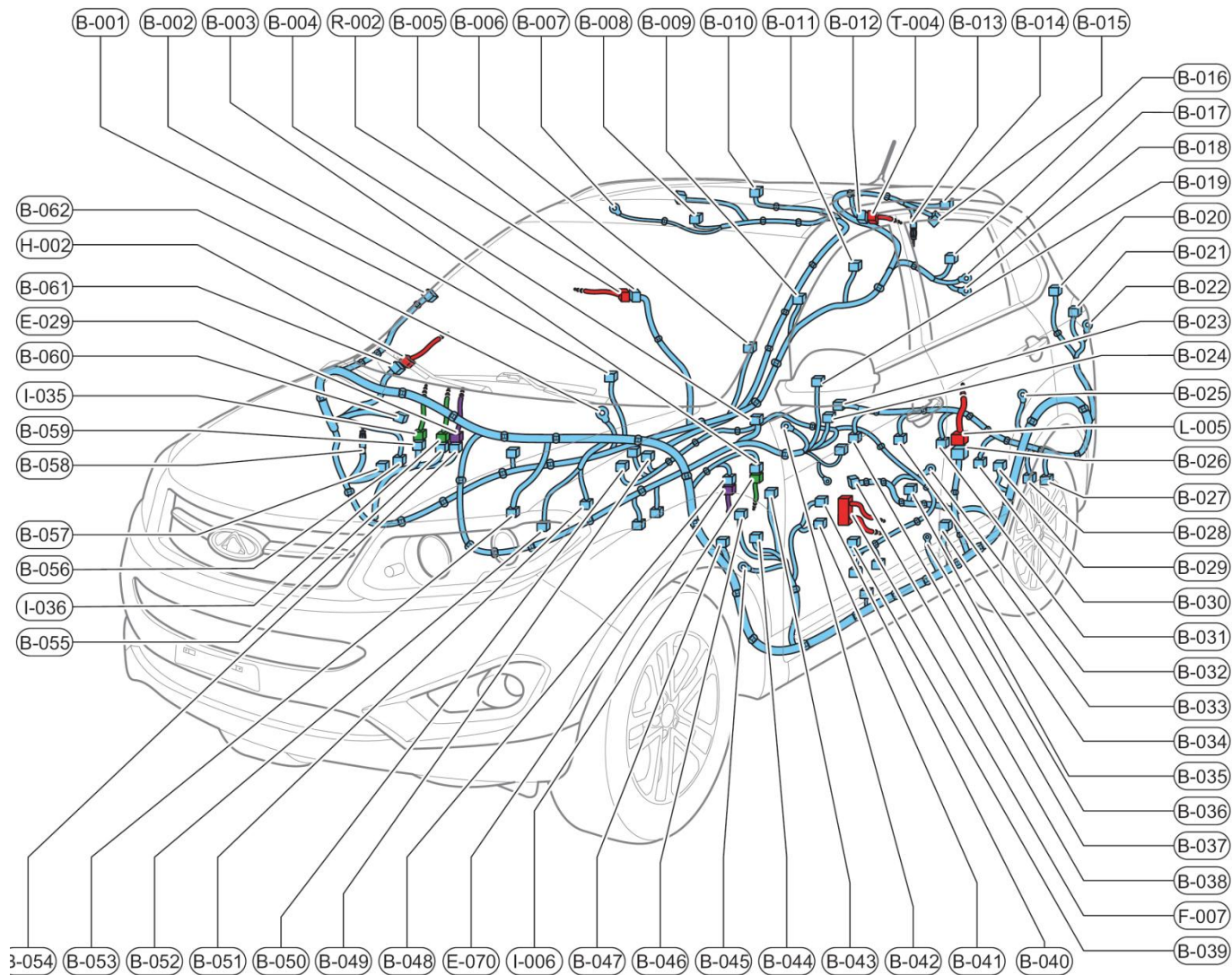
No.	Description	No.	Description
1	Front Washer/Rear Washer	4	Door Lock/Trunk Lock
2	Front Wiper	5	Rear Power Windows
3	Rear Wiper/Rear Fog Light	6	Front Power Windows

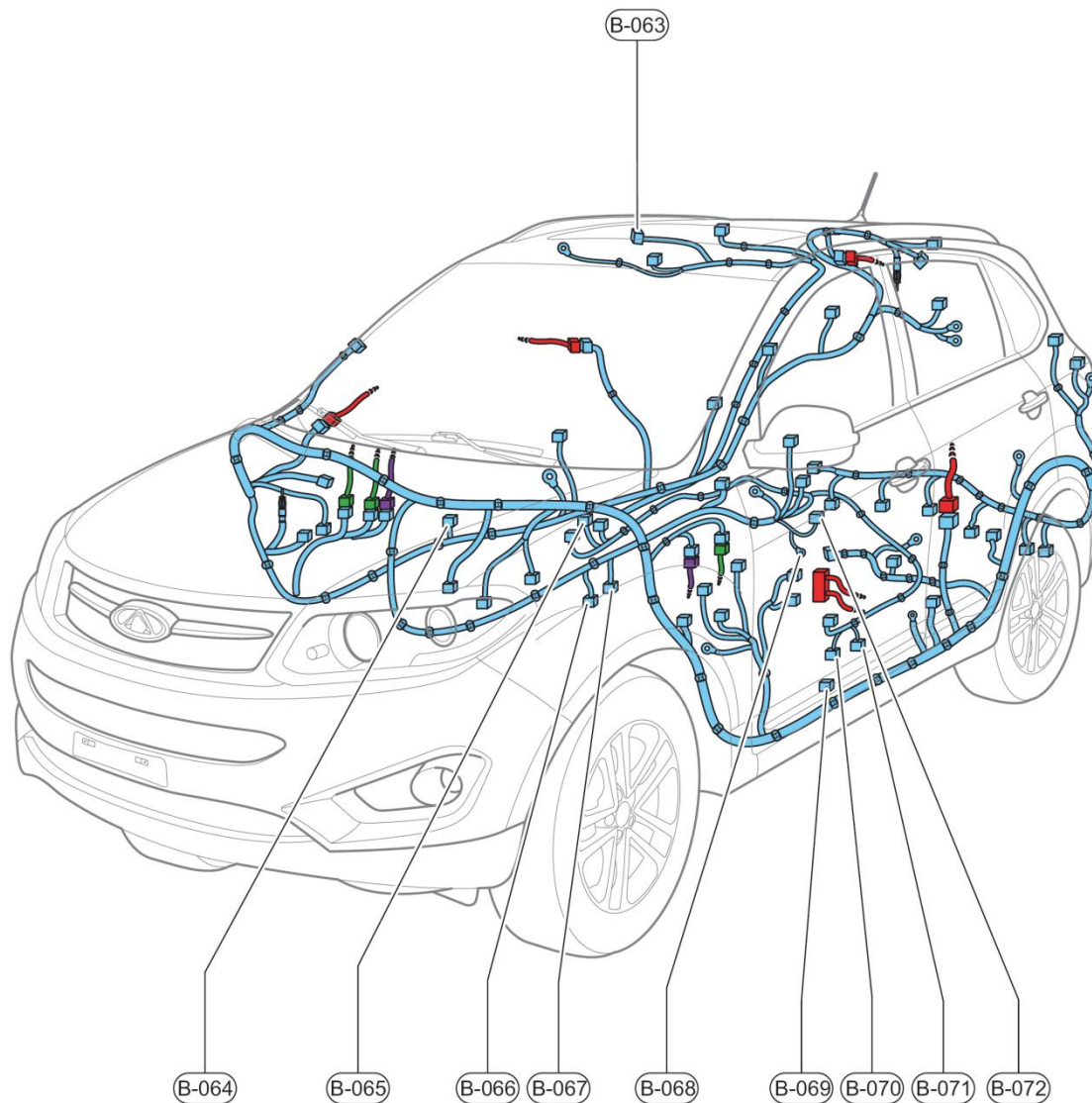


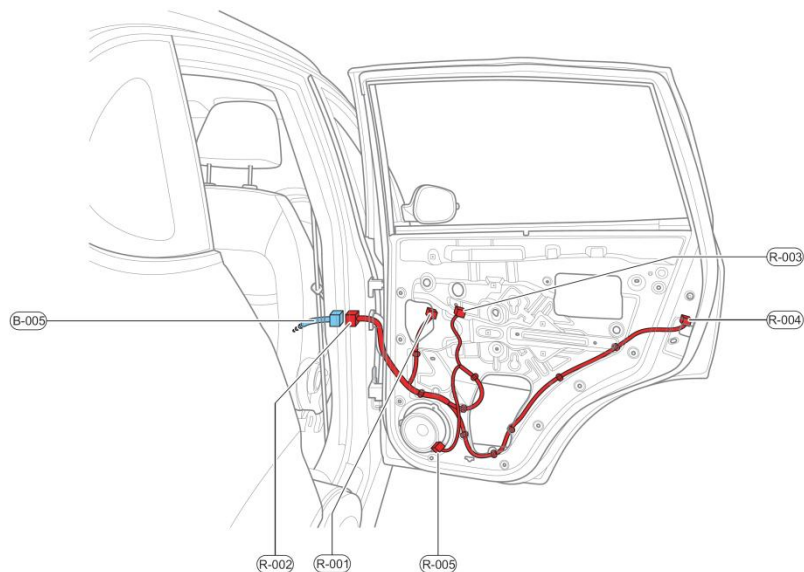
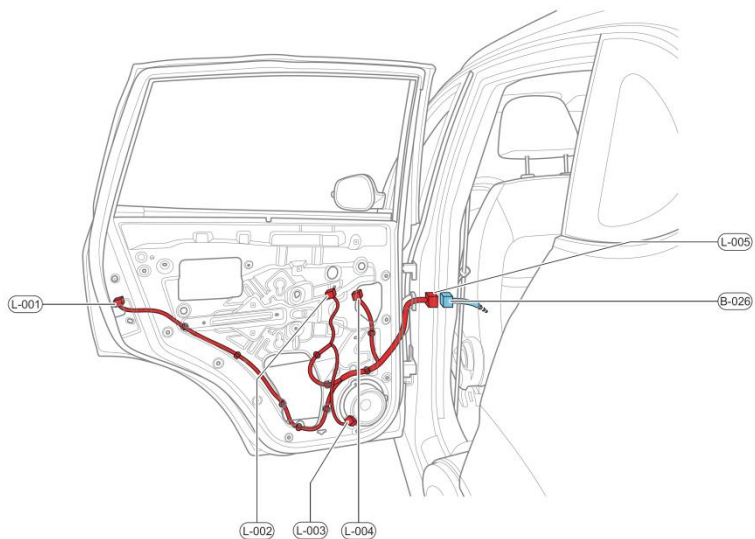
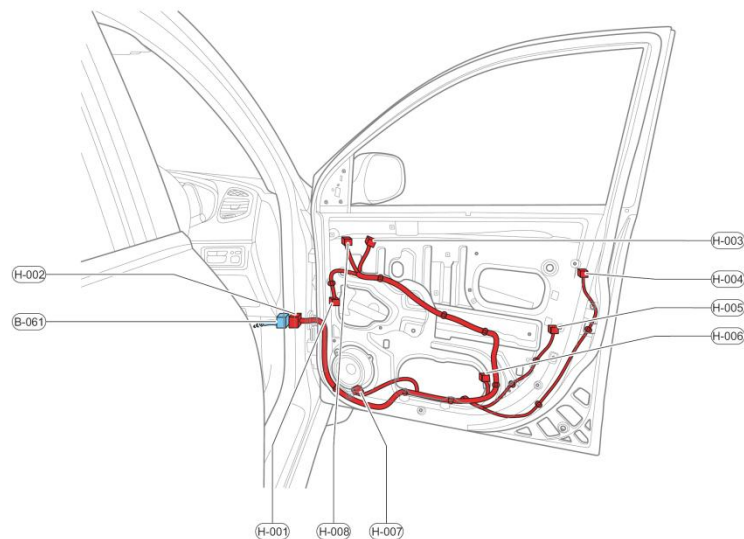
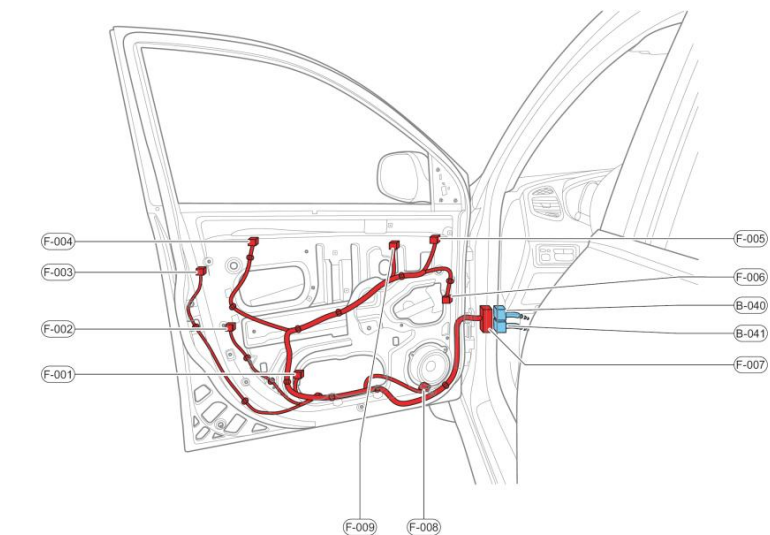




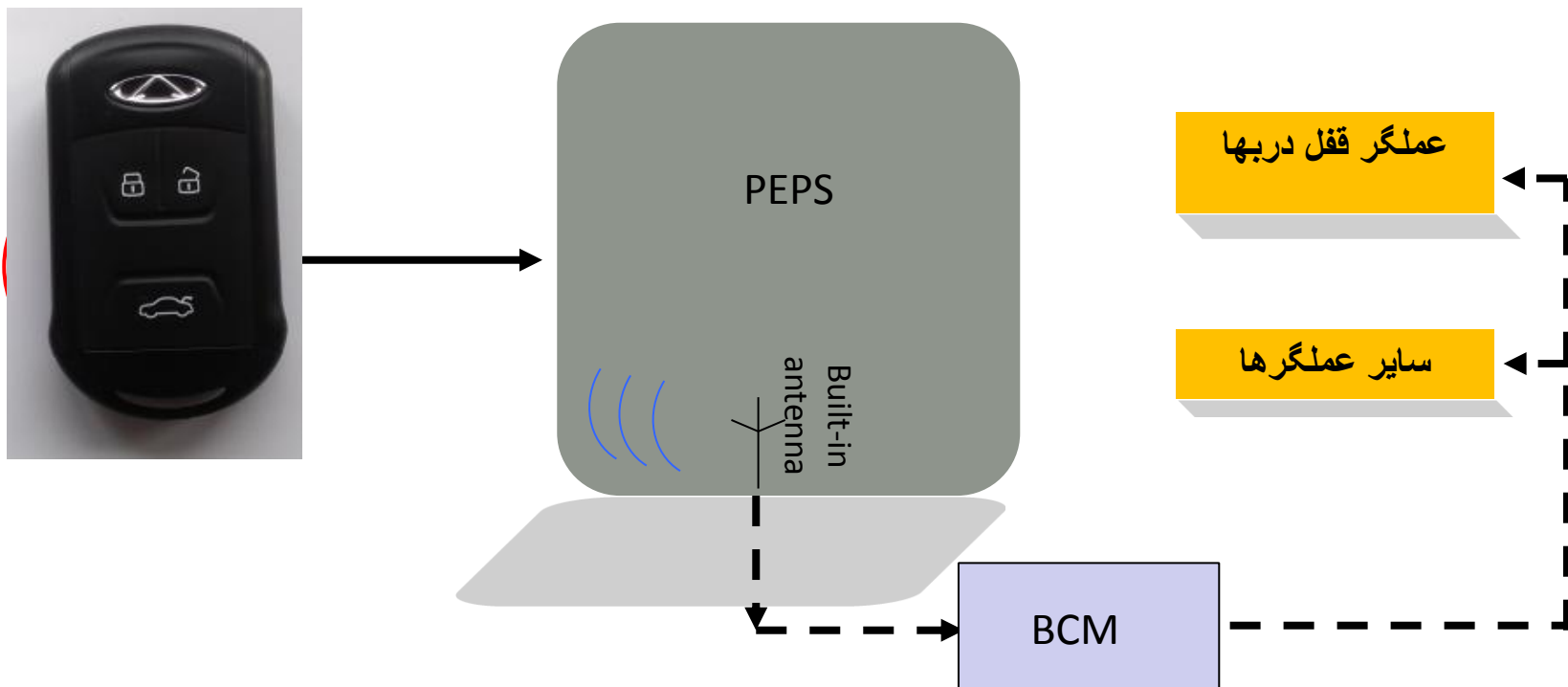






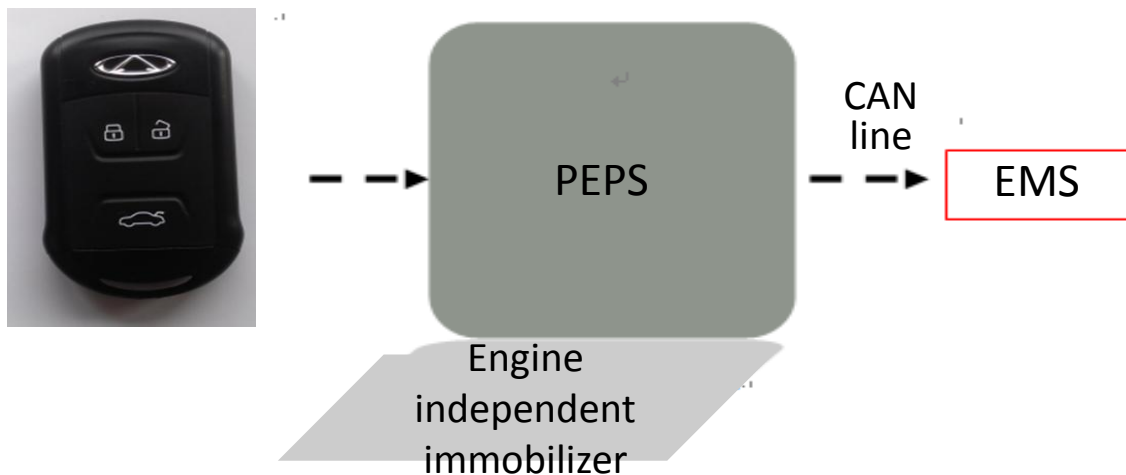


PEPS (Passive Entry Passive Start)



عملکرد سیستم PEPS

- ورود غیر فعال
- عملکرد ریموت کنترل عادی
- استارت غیر فعال
- باز شدن هوشمند صندوق
- سیستم ضد سرقت موتور



اجزای سیستم PEPS

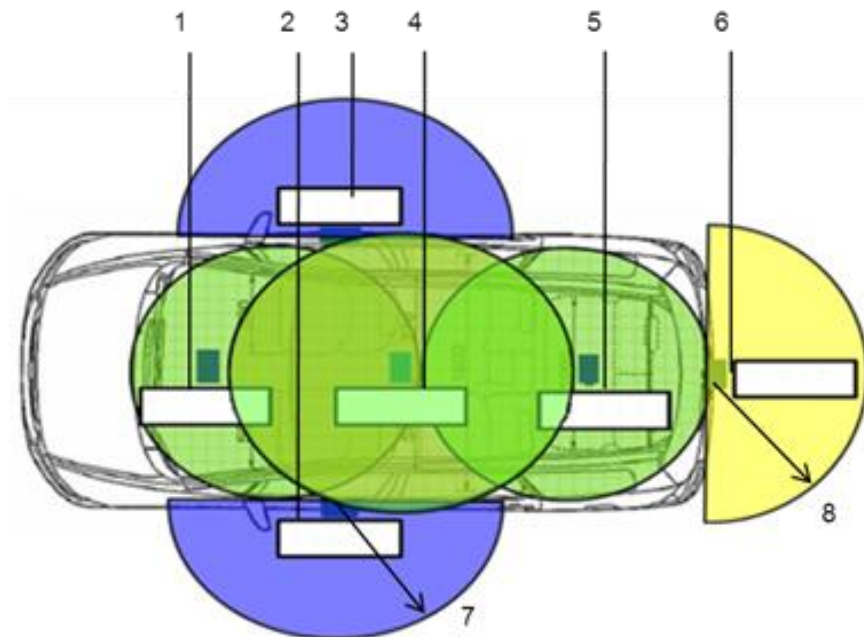
- مدول PEPS
- ۳ عدد آنتن داخلی خودرو
- یک عدد آنتن اضطراری
- سوئیچ و آنتن دستگیره دربها و سپر عقب



- سوئیچ هوشمند
- دکمه استارت غیر فعال
- میکرو سوئیچ درب صندوق



- ۱
- ۲
- ۳
- ۴
- ۵
- ۶
- ۷
- ۸



FR door



Trunk lid



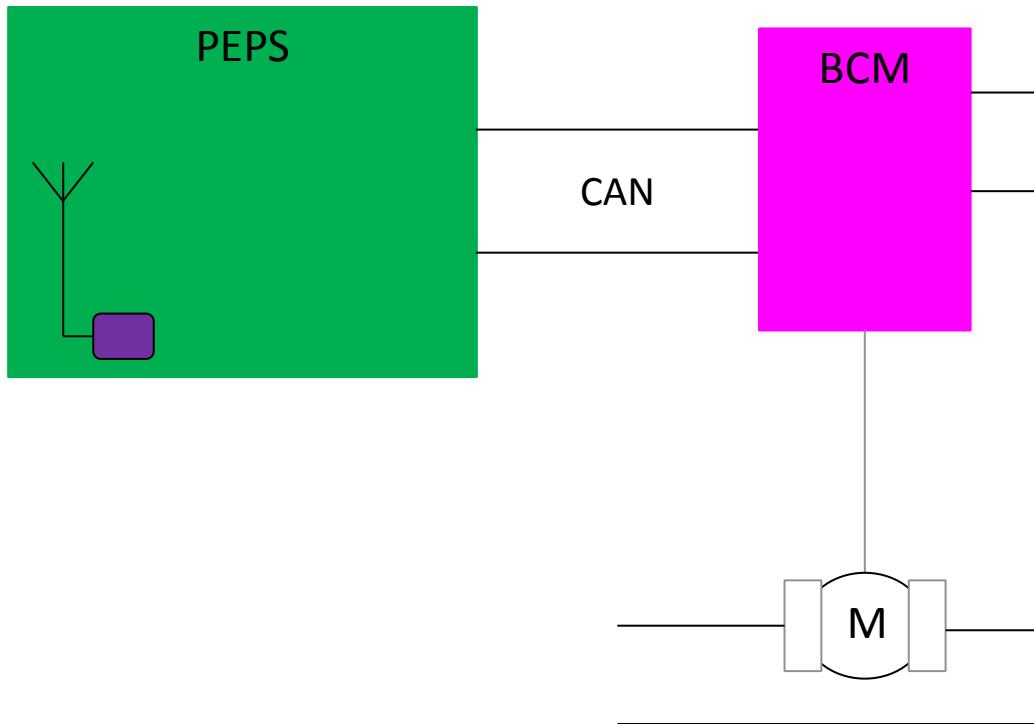
FL door

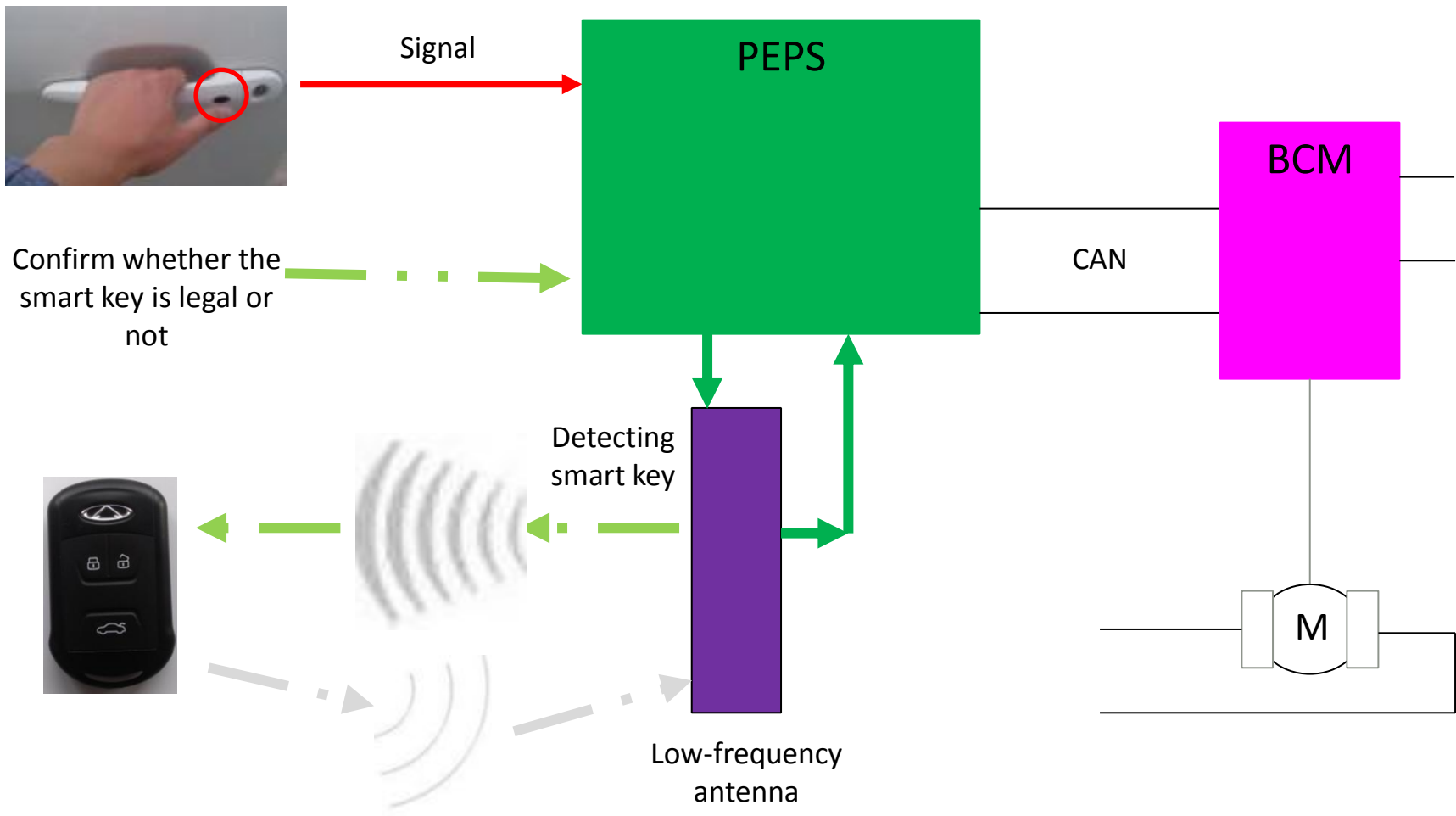
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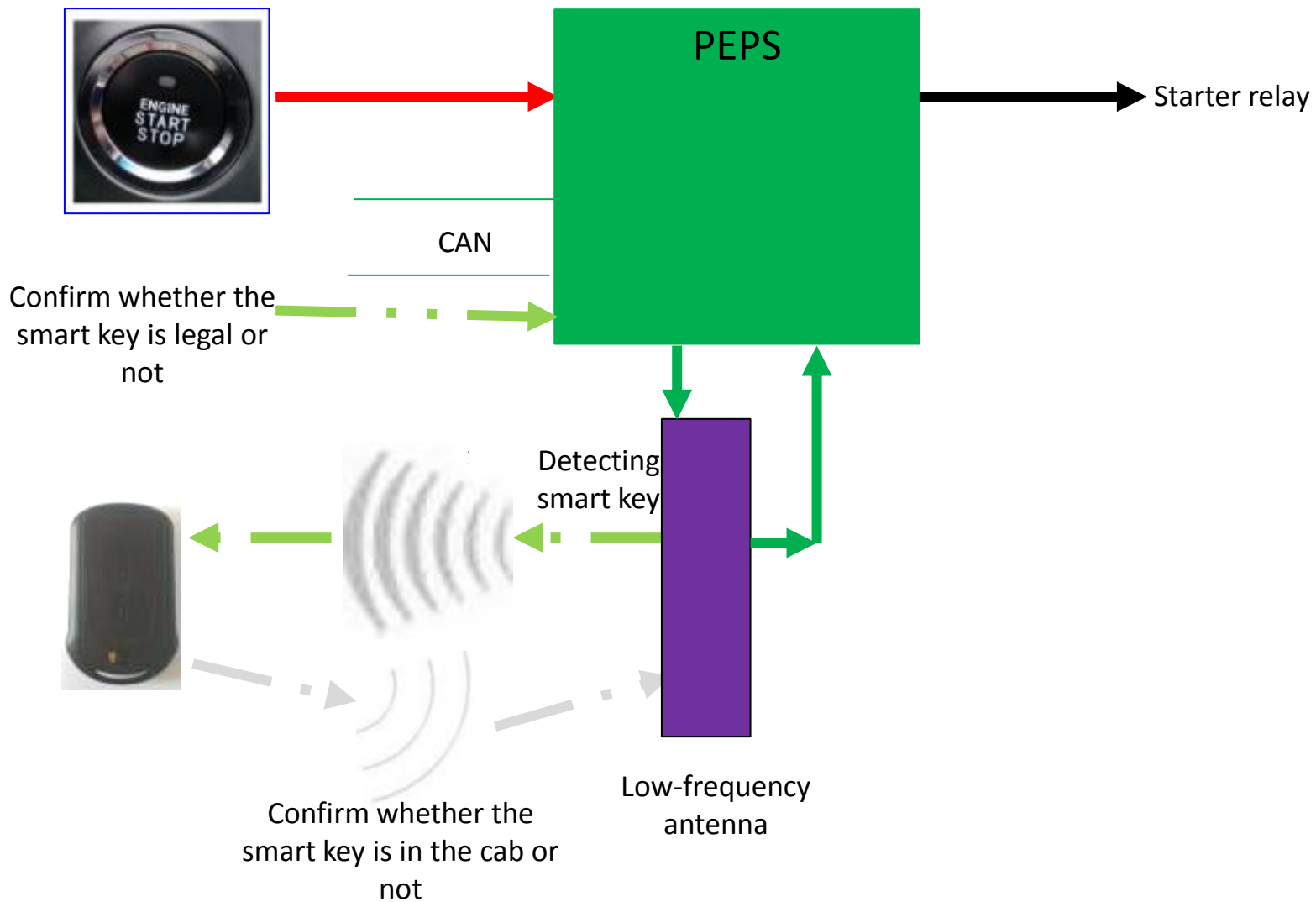
-منطقه آبی:

-منطقه زرد:

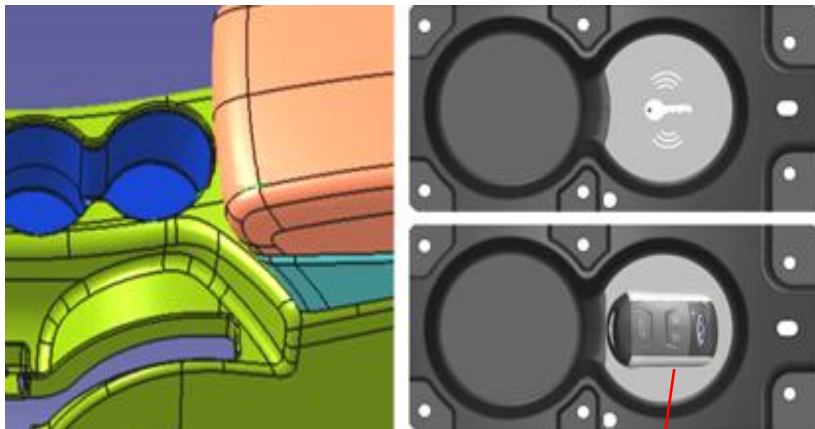
عملکرد سیستم قفل مرکزی با سوئیچ هوشمند





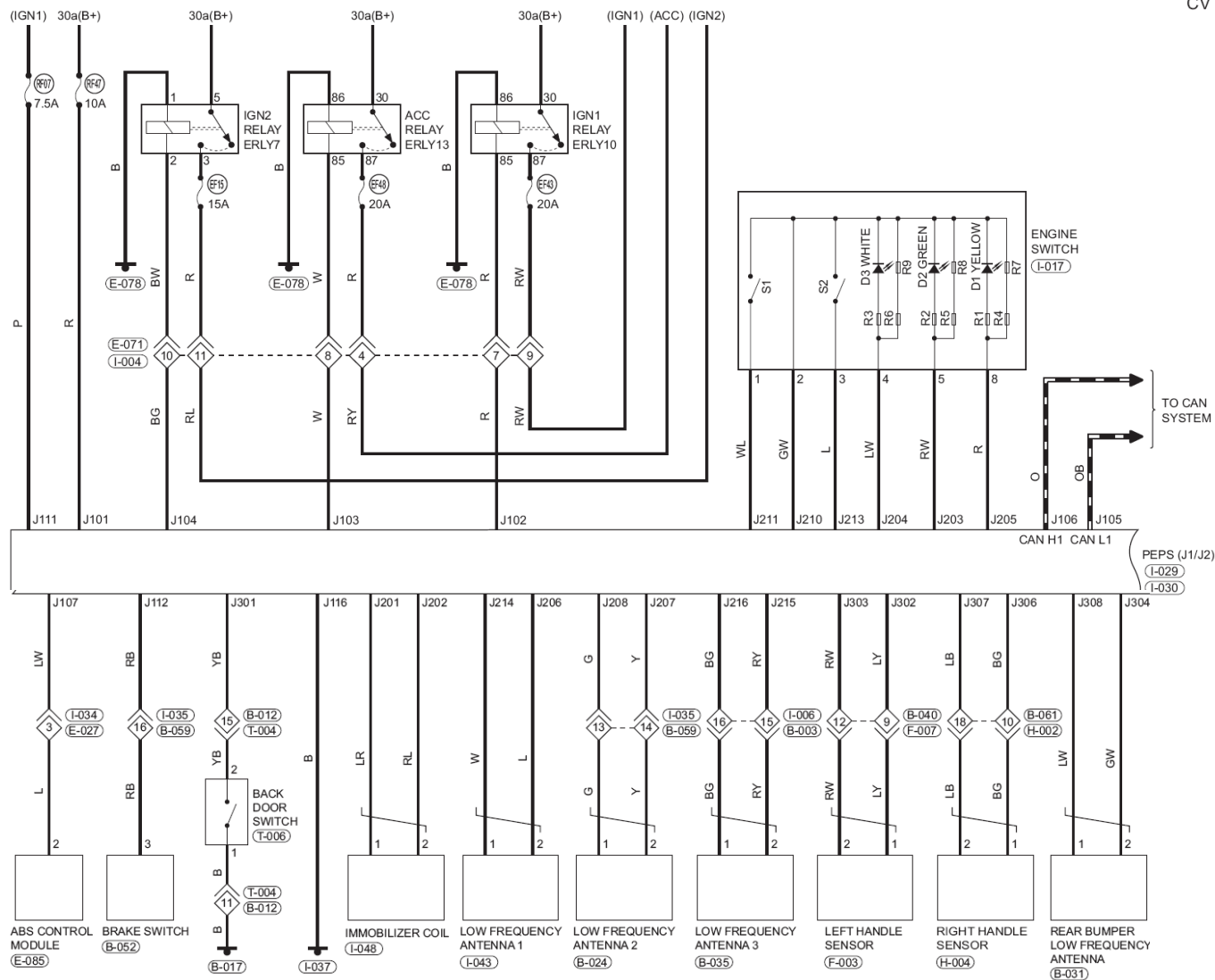


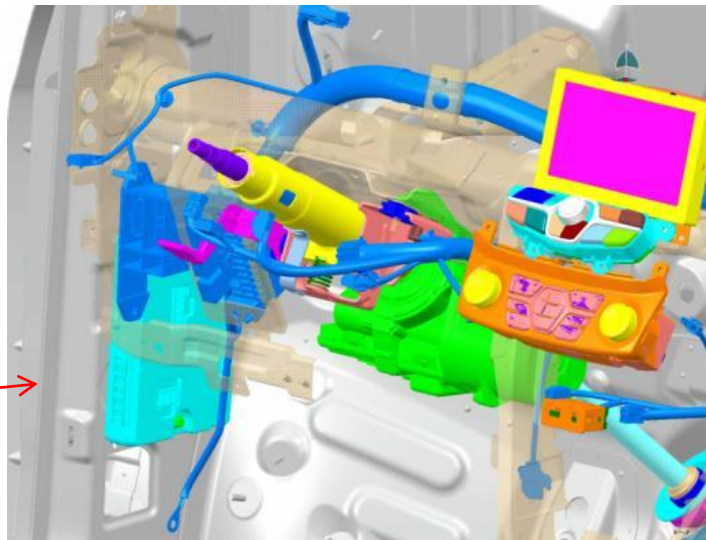
روش اضطراری روشن کردن خودرو



Front side up

CVT





D1	D2	D3		D4	D5
D6	D7	D8	D9	D10	D11
D12					

(B-044)
W

A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16

(I-005)

G

B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30	B31	B32
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16

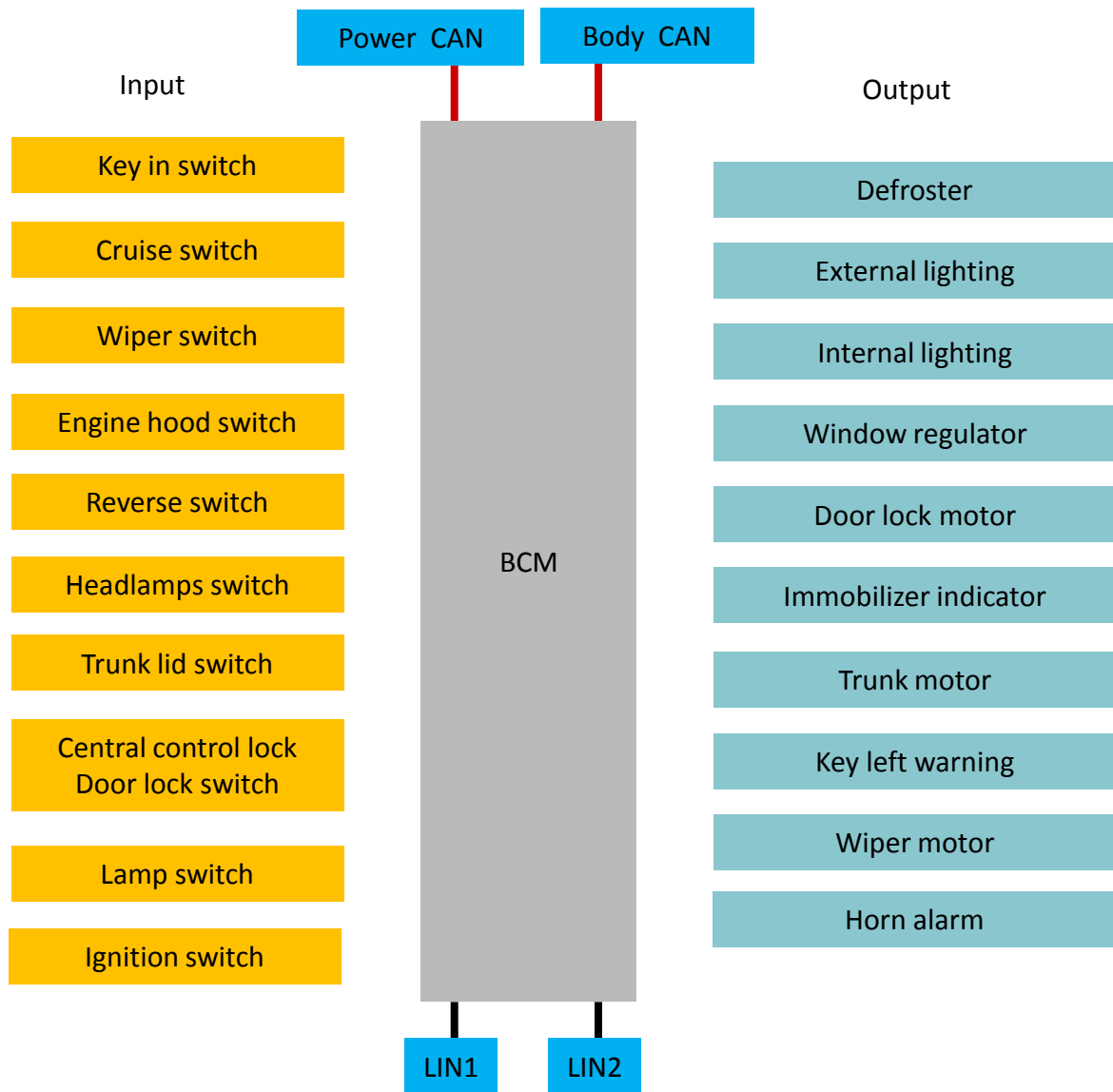
(B-047)

L



(E-072)

W



BCM (A) Terminal Definition

Terminal No.	Description	Terminal No.	Description
A1	Hazard Switch Illumination	A17	Hazard Switch
A2	-	A18	Wiper/Washer Switch
A3	-	A19	Wiper/Washer Switch
A4	Wiper/Washer Switch	A20	Front Fog Light Switch
A5	Rear Fog Light Switch	A21	Rear Defroster Switch
A6	Wiper/Washer Switch	A22	Wiper/Washer Switch
A7	-	A23	Front Passenger Seat Heater Switch
A8	Key Reminder Switch (MT)	A24	-
A9	Ignition Switch (ACC)	A25	Ignition Switch (ON/START)
A10	Combination Light Switch	A26	Headlight High Beam
A11	Wiper/Washer Switch	A27	Turn Signal Light Switch
A12	Rear Defroster Relay Coil	A28	Cruise Control
A13	Horn Relay Coil	A29	-
A14	CAN-L1	A30	CAN-L2
A15	CAN-H1	A31	CAN-H2
A16	-	A32	Cruise Control

BCM (B) Terminal Definition

Terminal No.	Description	Terminal No.	Description
B1	Driver Seat Heater Switch	B17	Reversing Signal
B2	Front Wiper Motor (Return)	B18	Rear Wiper Motor (Return)
B3	Front Left Door Contact Switch	B19	Window Lock Switch
B4	Rear Right Door Contact Switch	B20	Front Right Door Contact Switch
B5	Back Door Lock	B21	Rear Left Door Contact Switch
B6	Front Left Door Contact Switch	B22	Hood Contact Switch
B7	Front Left Power Window Switch	B23	Back Door Switch
B8	-	B24	Front Left Power Window Switch
B9	Front Left Power Window Switch	B25	Reverse Radar Data Signal
B10	Front Right Power Window Switch	B26	Front Right Door Courtesy Light
B11	Rear Left Power Window Switch	B27	Front Left Door Courtesy Light
B12	Rear Right Power Window Switch	B28	Anti-theft Indicator (CVT)
B13	Front Right Power Window Switch	B29	Front Fog Relay
B14	Rear Left Power Window Switch	B30	Low Beam Relay
B15	Rear Right Power Window Switch	B31	High Beam Relay
B16	Antenna	B32	-

BCM (C) Terminal Definition

Terminal No.	Description	Terminal No.	Description
C1	Rear Washer Motor	C11	-
C2	-	C12	-
C3	-	C13	Rear Right/Left Fog Light
C4	Anti-theft Horn	C14	Rear Wiper Motor
C5	Door Courtesy Light/Room Light/Key Lamp (MT)/Luggage Compartment Light	C15	Front Wiper Motor (Low Speed)
C6	Right Turn Signal Light/Right Rear View Mirror	C16	Left Turn Signal Light/Left Rear View Mirror
C7	Left Position Light/License Plate Light	C17	Front Wiper Motor (High Speed)
C8	Right Position Light/Headlight Adjustment Switch	C18	Back Door Lock Actuator
C9	Left Seat Heater Relay Coil	C19	Door Actuator
C10	Front Washer Motor	C20	Door Actuator

BCM (D) Terminal Definition

Terminal No.	Description	Terminal No.	Description
D1	Front Left Power Window Regulator Motor	D7	Right Seat Heater Relay Coil
D2	Front Left Power Window Regulator Motor	D8	Rear Left Power Window Regulator Motor
D3	Front Right Power Window Regulator Motor	D9	Luggage Compartment Light
D4	Front Right Power Window Regulator Motor	D10	Rear Room Light/Key Lamp (MT)
D11	Front Left Power Window Regulator Motor	D5	Front Right Power Window Regulator Motor
D12	Rear Right Power Window Regulator Motor	D6	Rear Left Power Window Regulator Motor

Follow Me Home	Working pre-conditions: ① Within 2 minutes after the key is turned to OFF; ② The Flash switch is activated shortly. Activation: Parking lamp and low beam lamp are lit by BCM, the indicator lamp on instrument cluster will be lit.
	Within 2 minutes after the key is turned to OFF, each operate Flash switch, Follow Me Home will be activated for 30s, and this function can be activated for 8 times at most(240s).
	When Follow Me Home is activated, if its working time reaches, it will off automatically.
	When Follow Me Home is activated, long press Flash switch(>3s), low beam lamp and parking lamp will be off and the function will be quit.
	When Follow Me Home is activated, turn IGN SW to ACC/ON, and Follow Me Home will stop.
	With the key at OFF, within 2 minutes after Follow Me Home is activated, if the time still not exceed 2 minutes since turn off Follow Me Home function, Follow Me Home can be still activated.

Battery power saving	1. Turn IGN SW to OFF, open any door, the battery power saving function will be activated. In this case, if ceiling lamp switch is turned to door position, the ceiling lamp will remain lit, and it will be off after 15 minutes delay.
	2. Turn IGN SW to OFF, open the trunk, the battery power saving function will be activated. In this case, trunk lamp will remain lit, and it will be off after 15 minutes delay.
	3. Turn IGN SW to OFF, open the engine hood, the battery power saving function will be activated for 15 minutes. If any of door/engine hood/trunk lid is opened within 15 minutes, another 15min counting will be restarted.
Door lock protection	Continuously press lock/unlock button for 10 times, and the lock/unlock function will be deactivated for 30s to protect the lock motor.

Window glass regulate	When ignition switch ON, the glass can be regulated by window regulate switch.
	<i>Manual mode:</i> Long press window glass regulate switch, the glass will move correspondingly; release the switch, the glass will stop moving immediately.
	<i>Automatic mode:</i> Short press window glass regulate switch, the corresponding glass will lower automatically; press the switch again, the glass will stop moving.
	Within 2 minutes after the key is turned from ON to ACC/OFF, the window glass can be operated by the window glass regulate switch.
	Within 2 minutes after the key is turned from ON to ACC/OFF, if any front door is opened, window glass regulate function will be immediately deactivated.
	When window glass regulator motor is working, if the key is turned to START, window glass regulator motor will pause to work, and restore the regulating operation after the engine is started.

