



مدیران خودرو  
خدمات پس از فروش



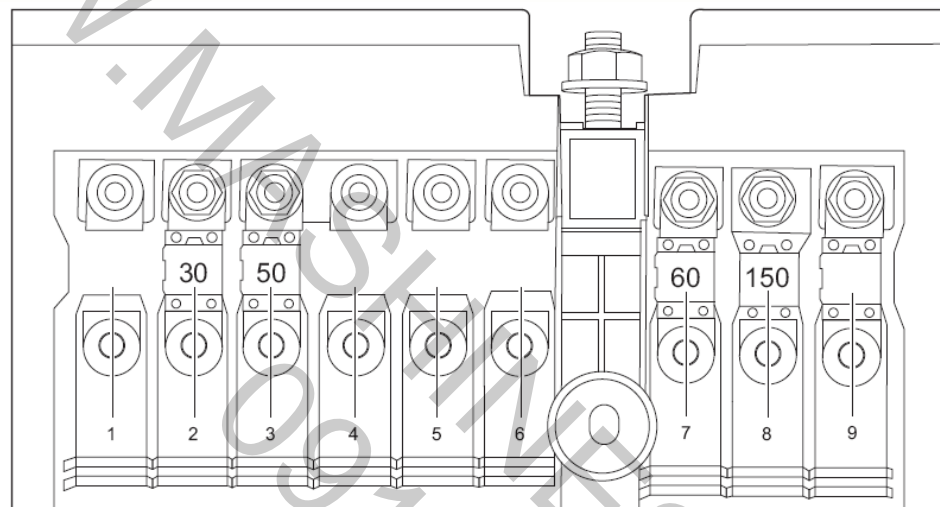
CHERY

# جزوه آموزشی سیستم برق خودروی Arrizo5



مدیریت فنی و مهندسی  
اداره آموزش  
کد : EL-85-01  
ویرایش اول

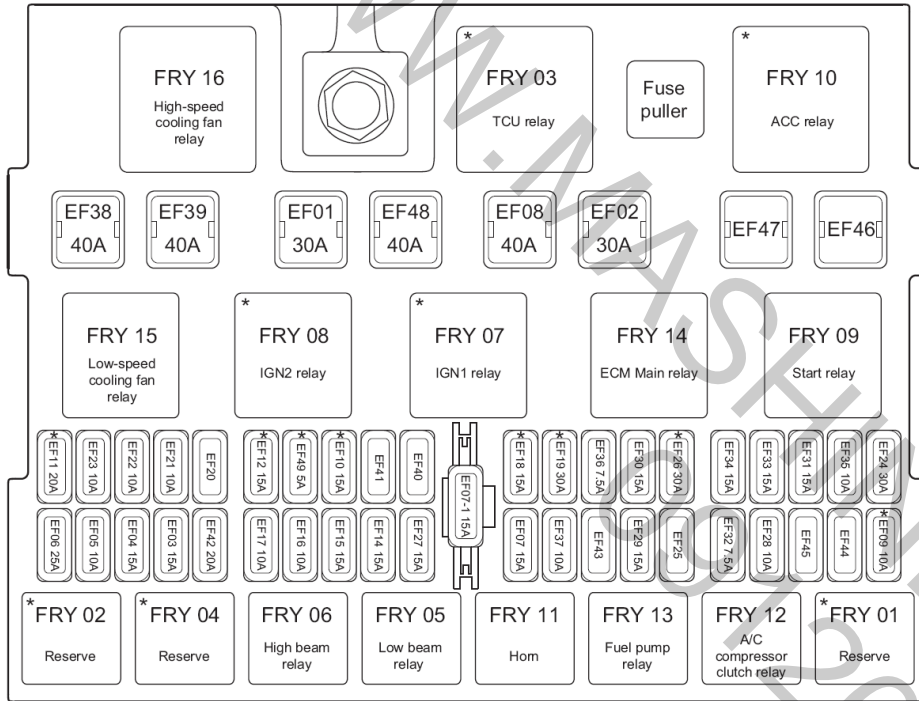
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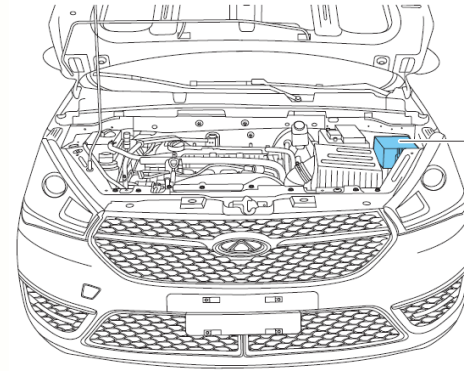
EM1A060010

**Power Fuse Description**

No.	Fuse	Description	No.	Fuse	Description
1	FB01	-	6	FB06	-
2	FB02	Instrument Panel Fuse and Relay Box	7	FB07	EPS (Reserve)
3	FB03	BCM	8	FB08	Alternator
4	FB04	-	9	FB09	-
5	FB05	-			

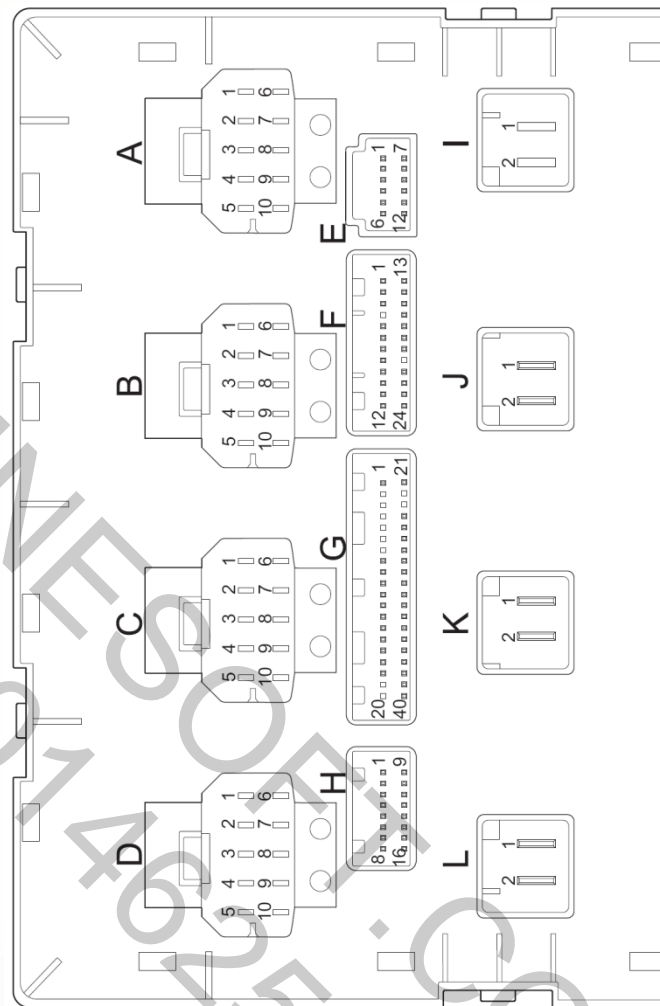
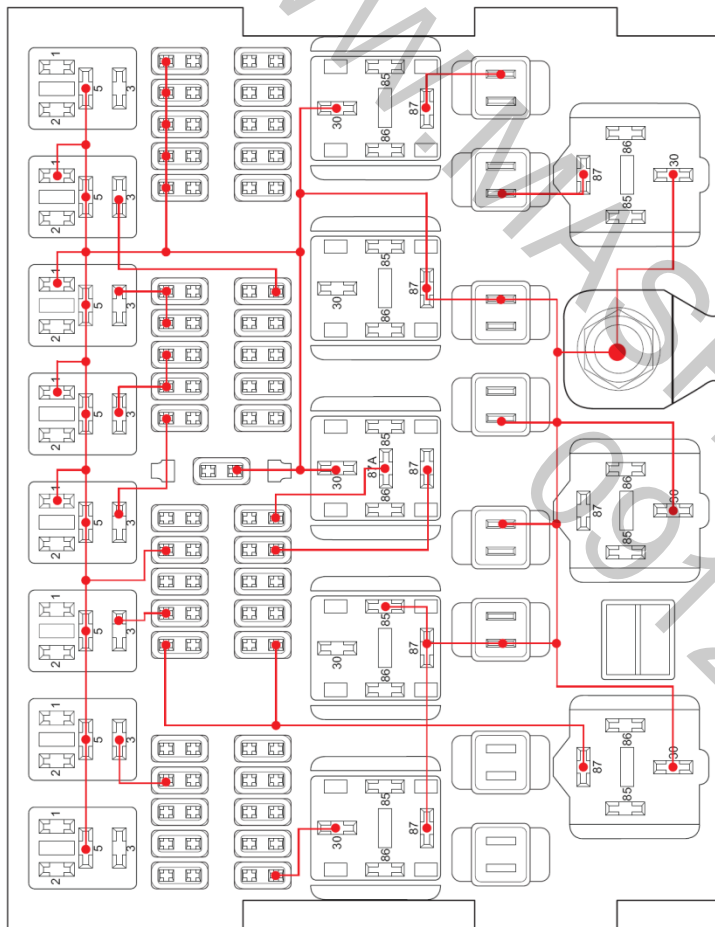


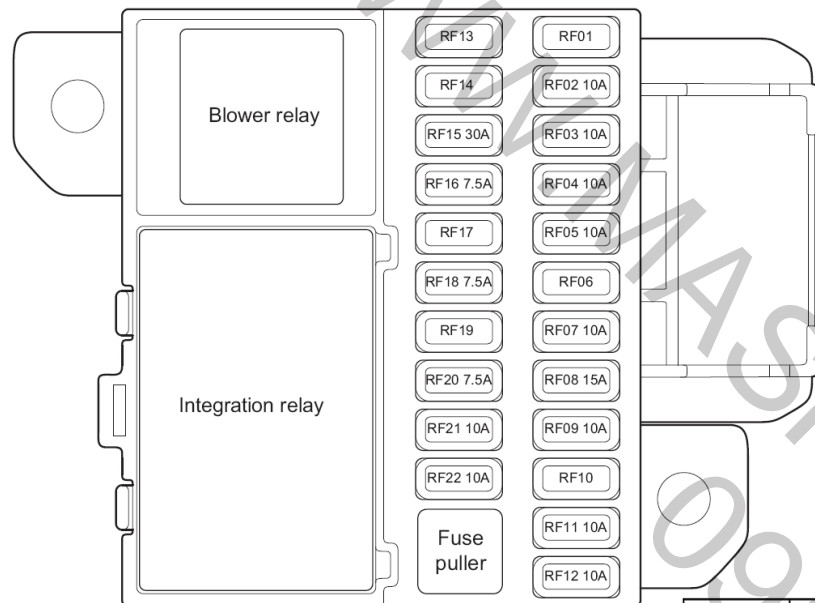
\*: If equipped



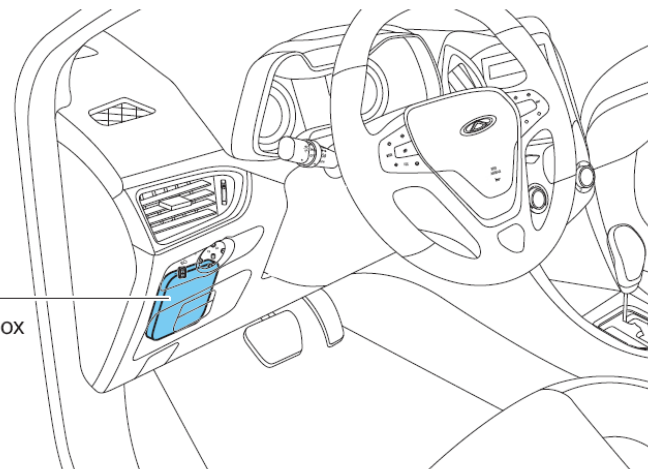
Engine Compartment Fuse and Relay Box

No.	Description	No.	Description	No.	Description
FB01	Spare	EF12	Front fog light	EF32	Upstream oxygen sensor
FB02	IP box	EF13	-	EF33	Injector
FB03	BCM	EF14	Low beam RH	EF34	Engine sensor
FB04	Spare	EF15	Low beam LH	EF35	Reserve
FB05	Reserve	EF16	High beam RH	EF36	Downstream oxygen sensor
FB06	Spare	EF17	High beam LH	EF37	ECM
FB07	Reserve	EF18	PEPS	EF38	Low-speed cooling fan
FB08	Generator	EF19	IP box (IGN)	EF39	High-speed cooling fan
FB09	Spare	EF20	Spare	EF40	Spare
EF01	Ignition switch	EF21	Brake switch	EF41	Spare
EF02	Blower	EF22	Back-up light	EF42	Sliding roof motor
EF03	Immobilizer/Brake light	EF23	Radar/AC pressure switch/Sunroof switch	EF43	Spare
EF04	Ignition switch	EF24	Starter	EF44	Spare
EF05	TCU (CVT model)/PEPS	EF25	Spare	EF45	Spare
EF06	ABS valve	EF26	IP box (ACC)	EF46	Spare
EF07	IP box (B+)	EF27	Horn	EF47	Spare
EF08	ABS pump	EF28	A/C compressor clutch	EF48	Reserve
EF09	Reserve	EF29	Fuel pump	EF49	Spare
EF10	Reserve	EF30	ECM		
EF11	TCU (CVT model)	EF31	Ignition coil		





Instrument Panel  
Fuse and Relay Box



No.	Description	No.	Description	No.	Description
RF01	-	RF09	A/C system/Outside rear view mirror/ Blower relay	RF17	-
RF02	ABS/ESP/SAS	RF10	-	RF18	Rear defroster indicator
RF03	Instrument cluster	RF11	A/C system/Audio system/Headlight leveling dial	RF19	-
RF04	Airbag	RF12	ECM/TCU/PEPS	RF20	Diagnosis interface/Key reminder switch
RF05	BCM	RF13	-	RF21	Instrument cluster
RF06	-	RF14	-	RF22	Audio system
RF07	Audio system/BCM	RF15	Rear defroster		
RF08	Cigarette lighter	RF16	Rear defroster relay		

SRS Control Module  
Audio System Control Module\*

ICM  
(Instrument Cluster Control Module)  
BCM  
(Body Control Module)

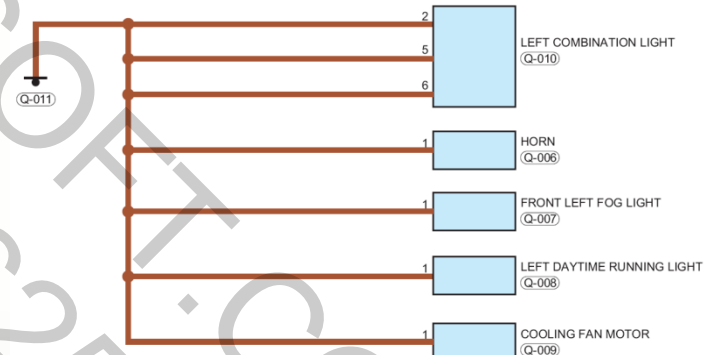
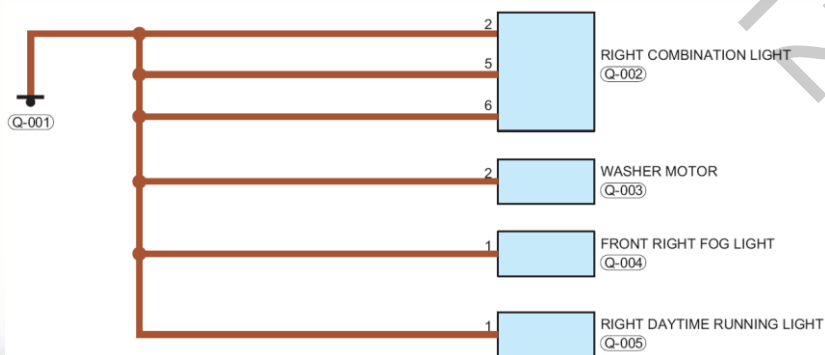
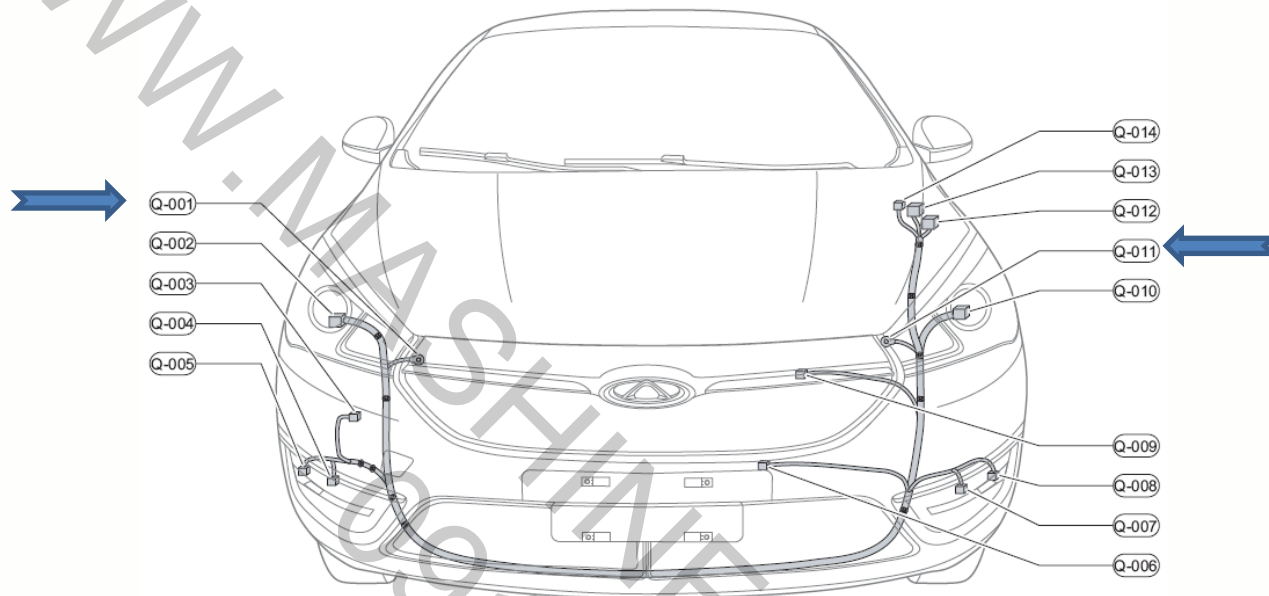
PEPS Control Module\*

TCU\*  
(Transmission Control Unit)

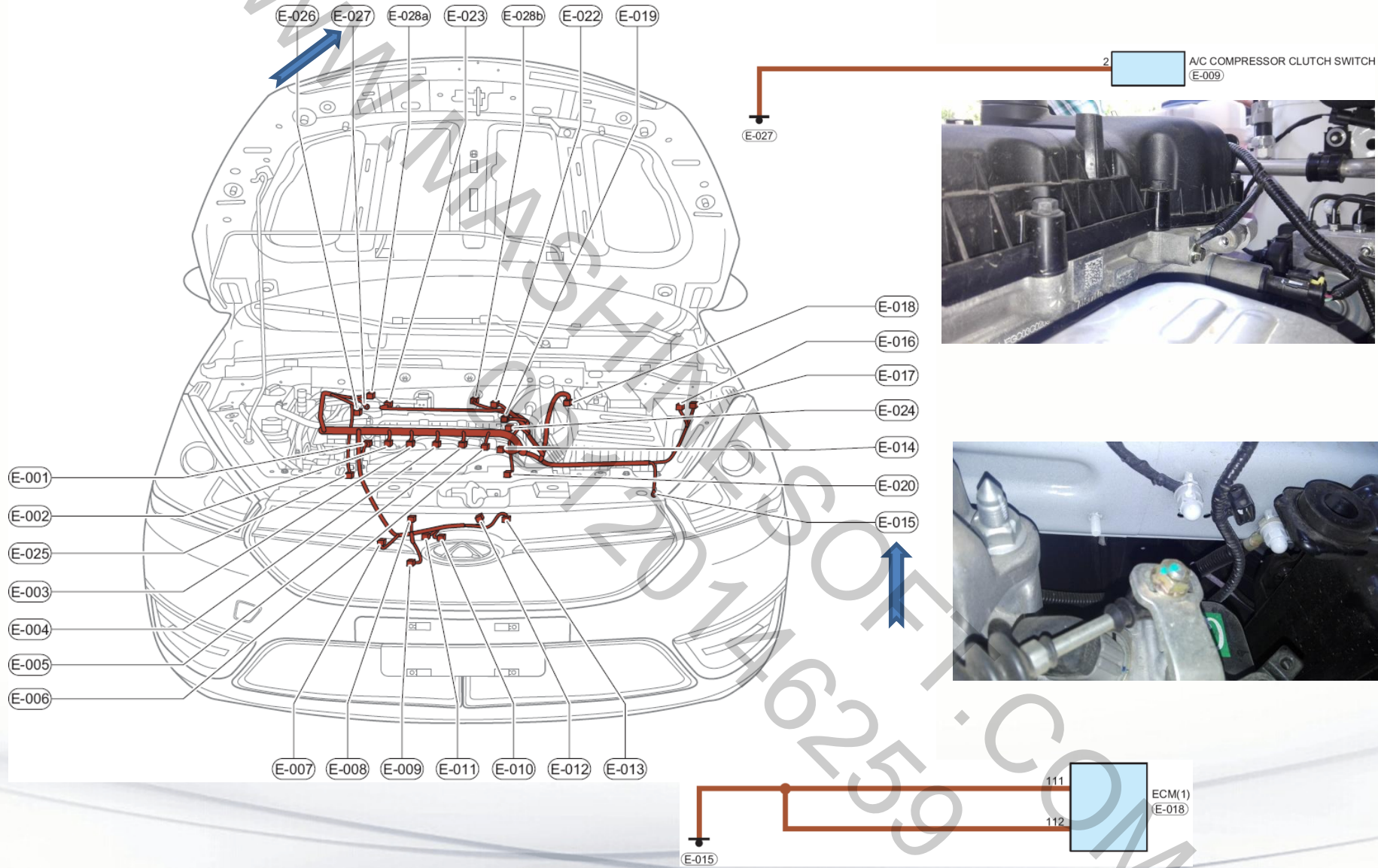
Reversing Radar Control Module

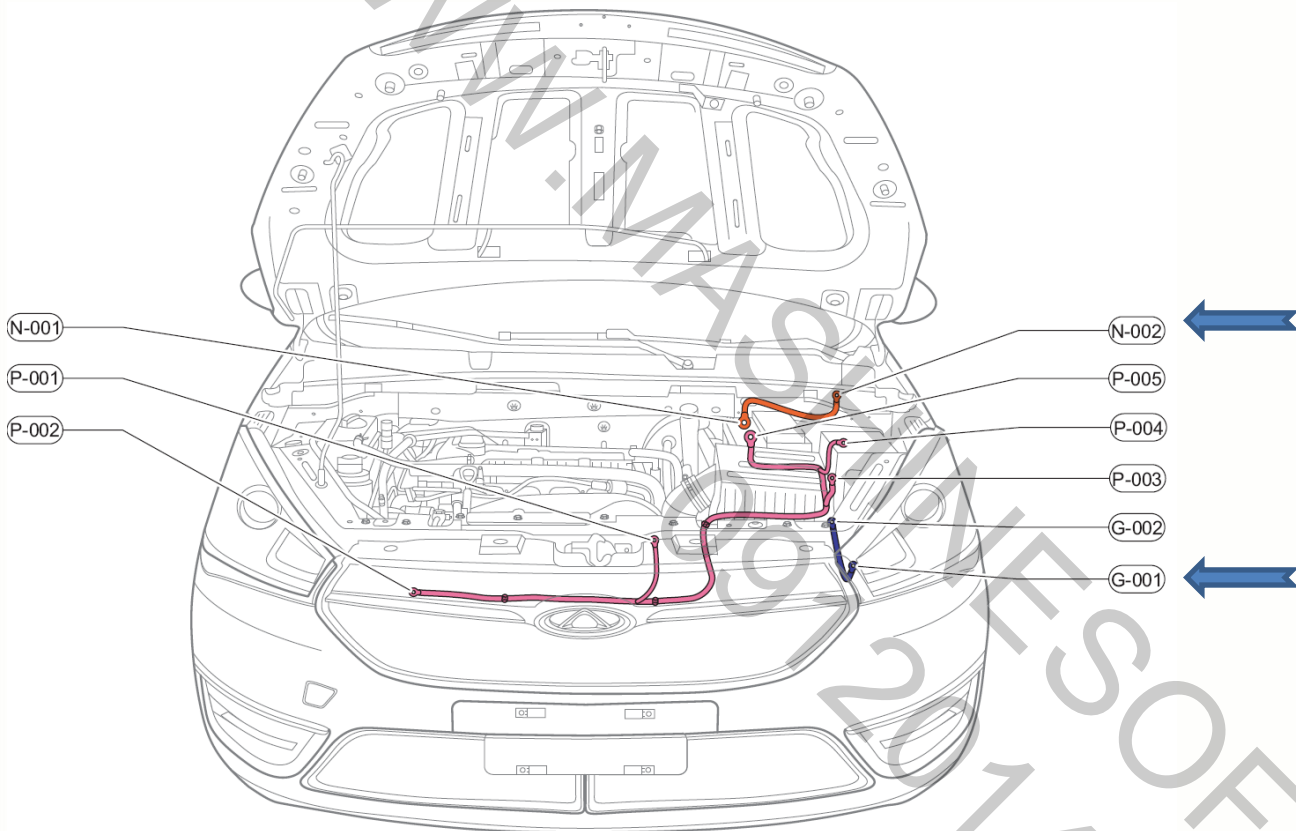
ABS/ESP Control Module

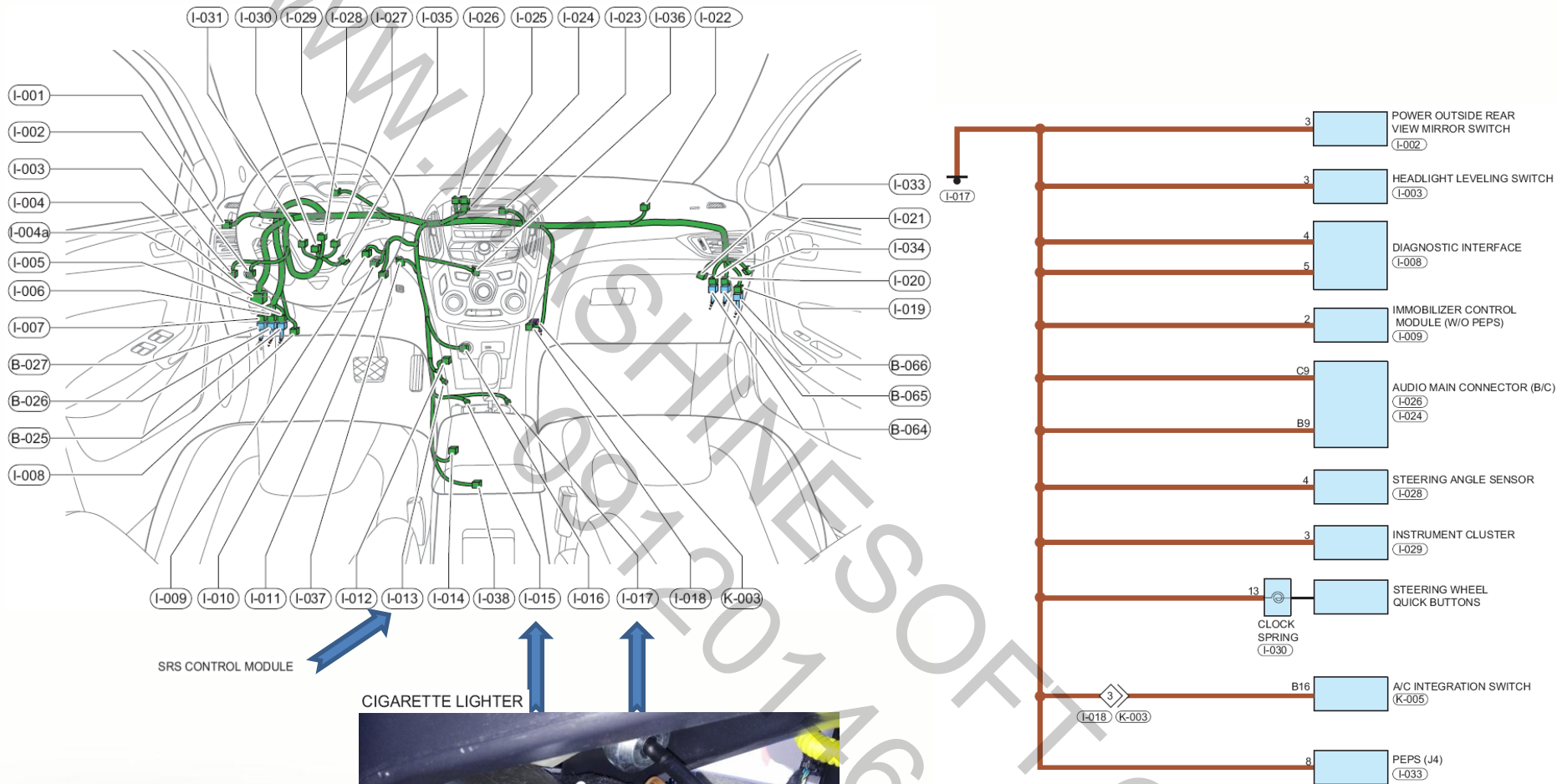
ECM (Engine Control Module)



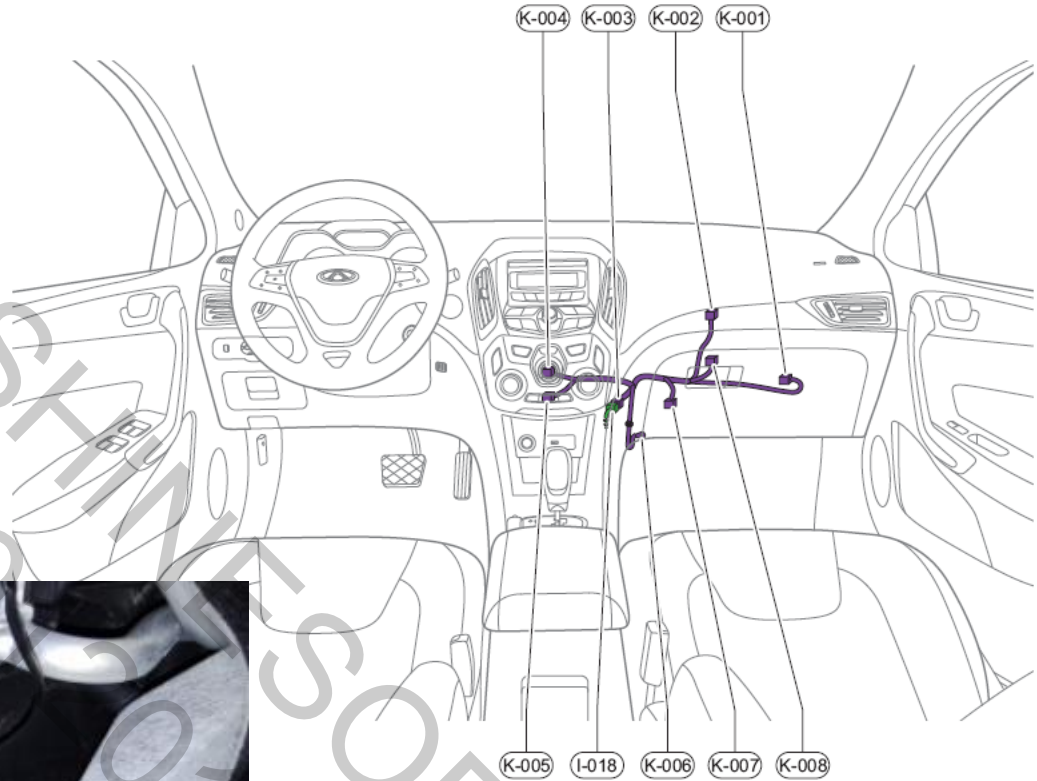




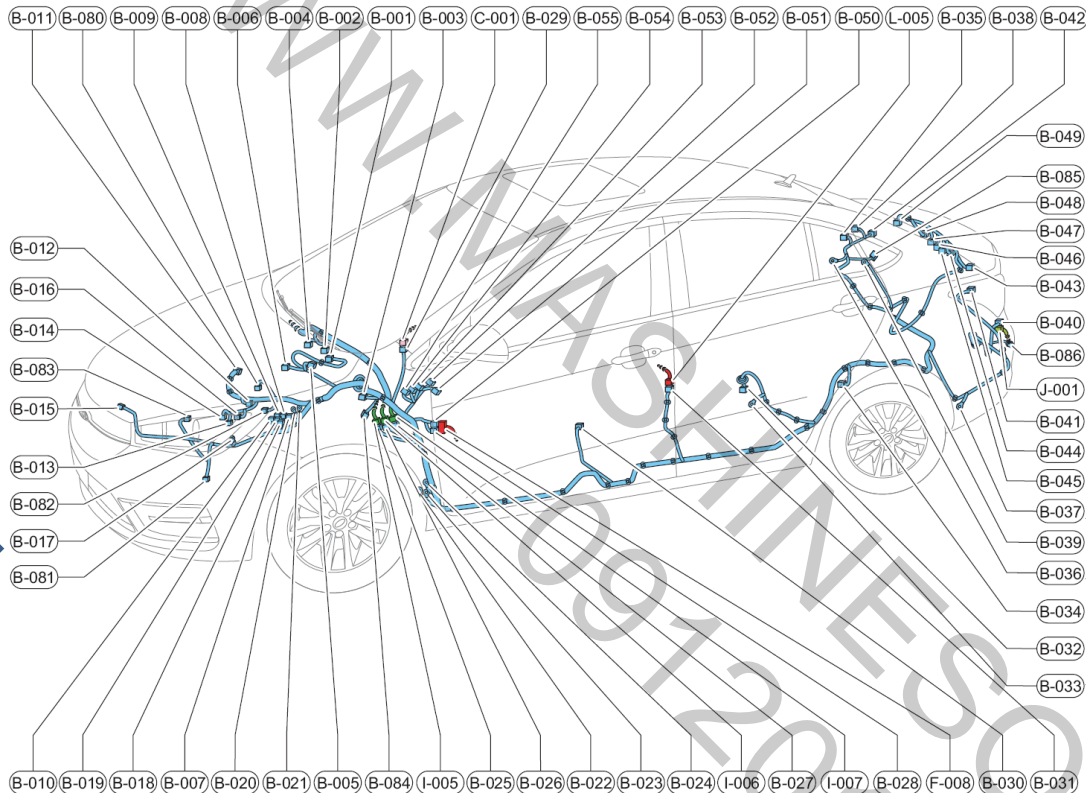




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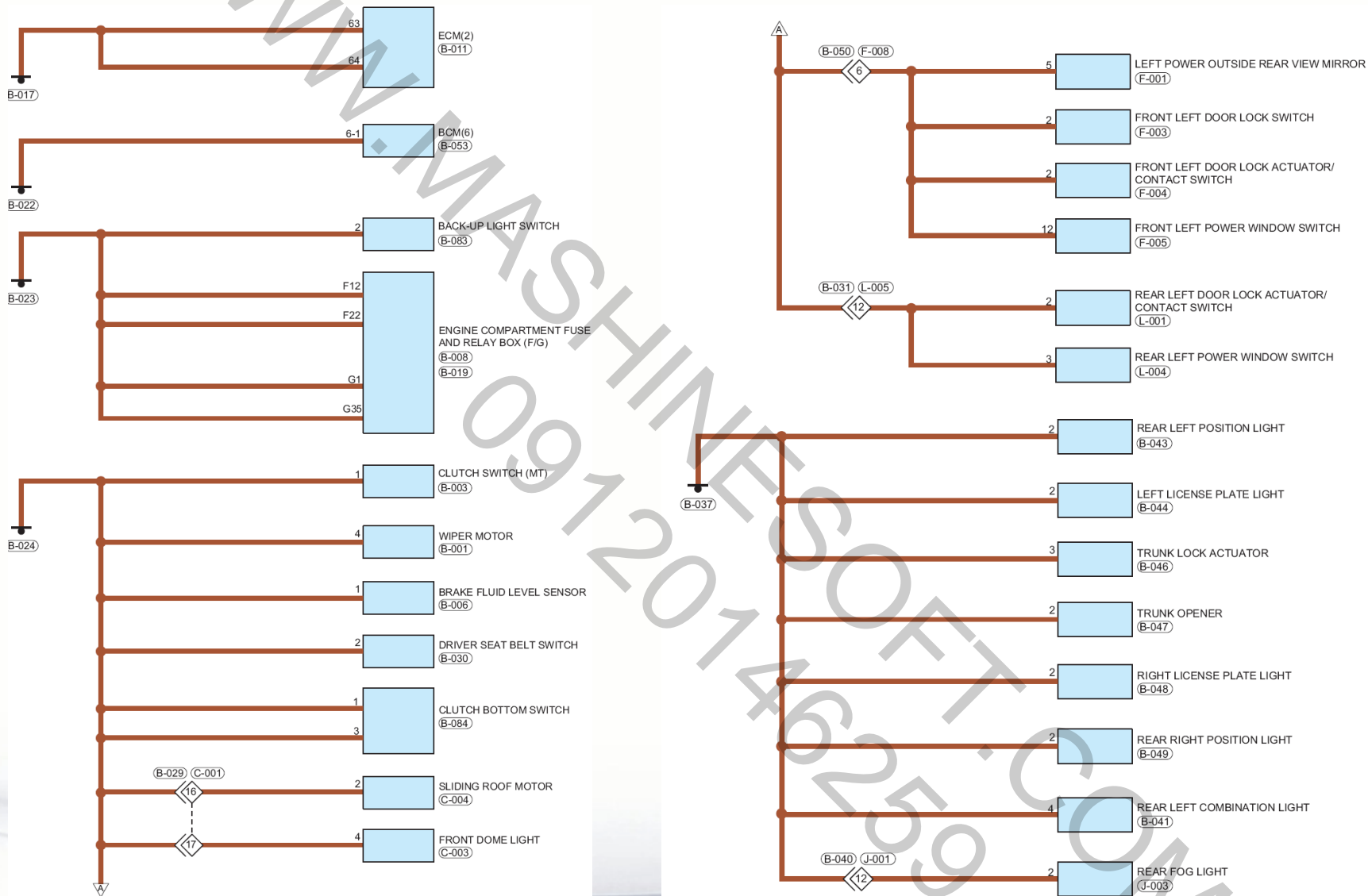


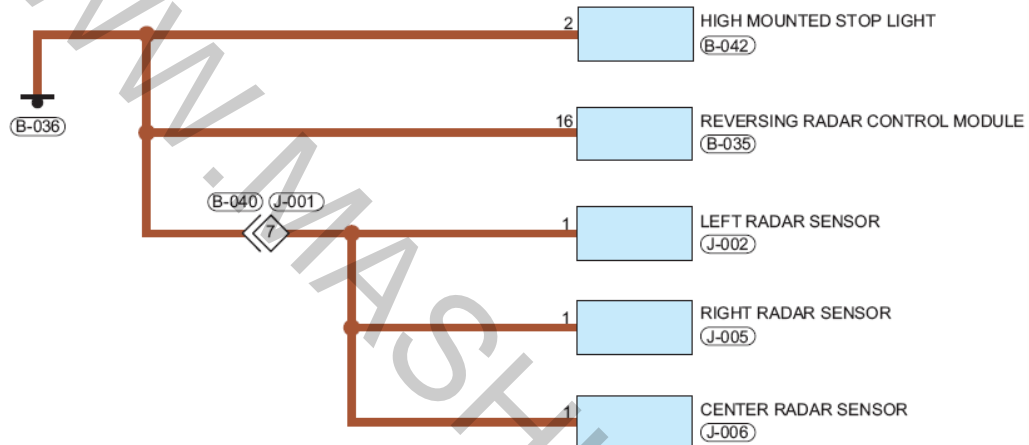
BLOWER SPEED SWITCH



FUEL PUMP MOTOR

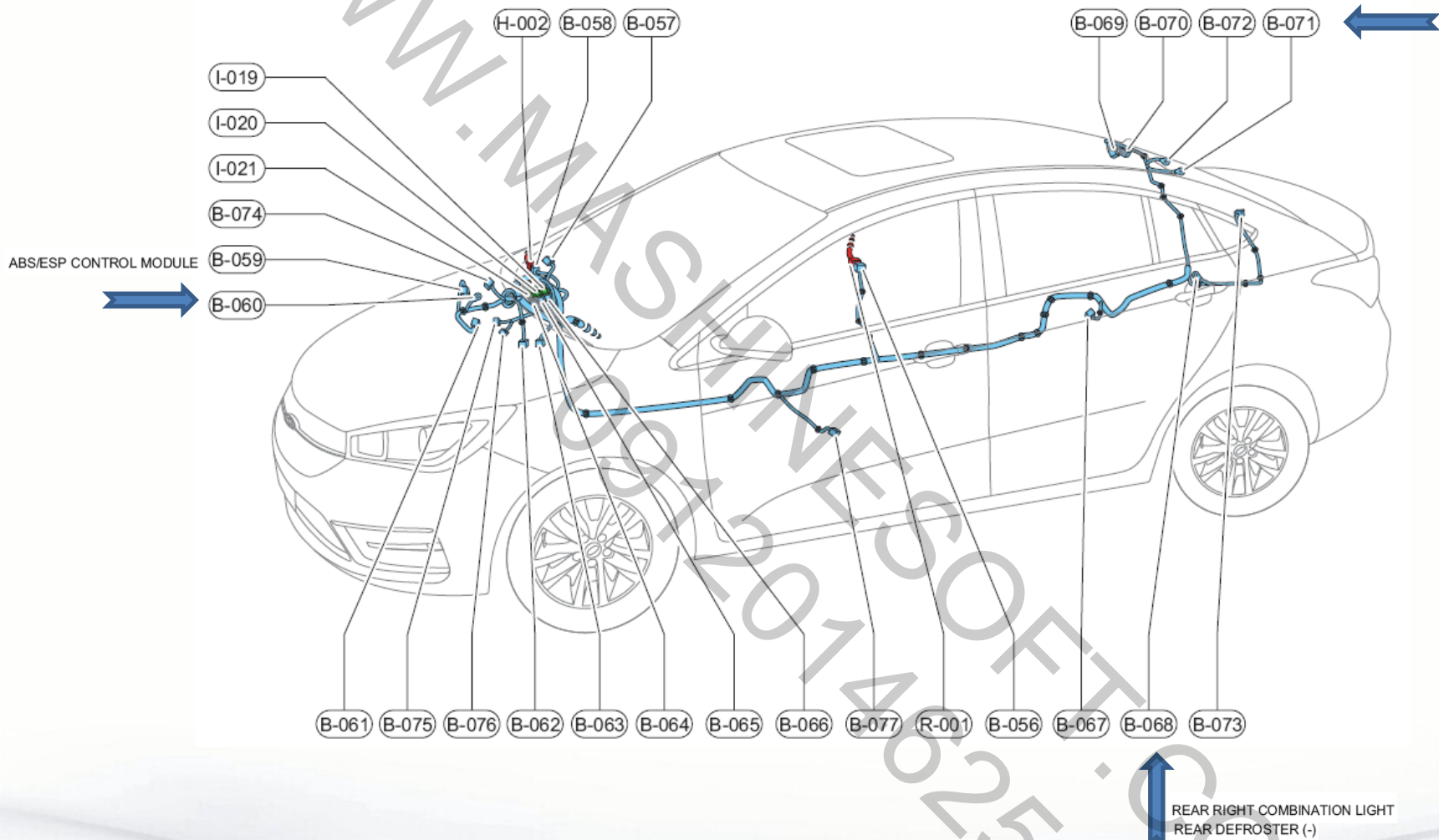




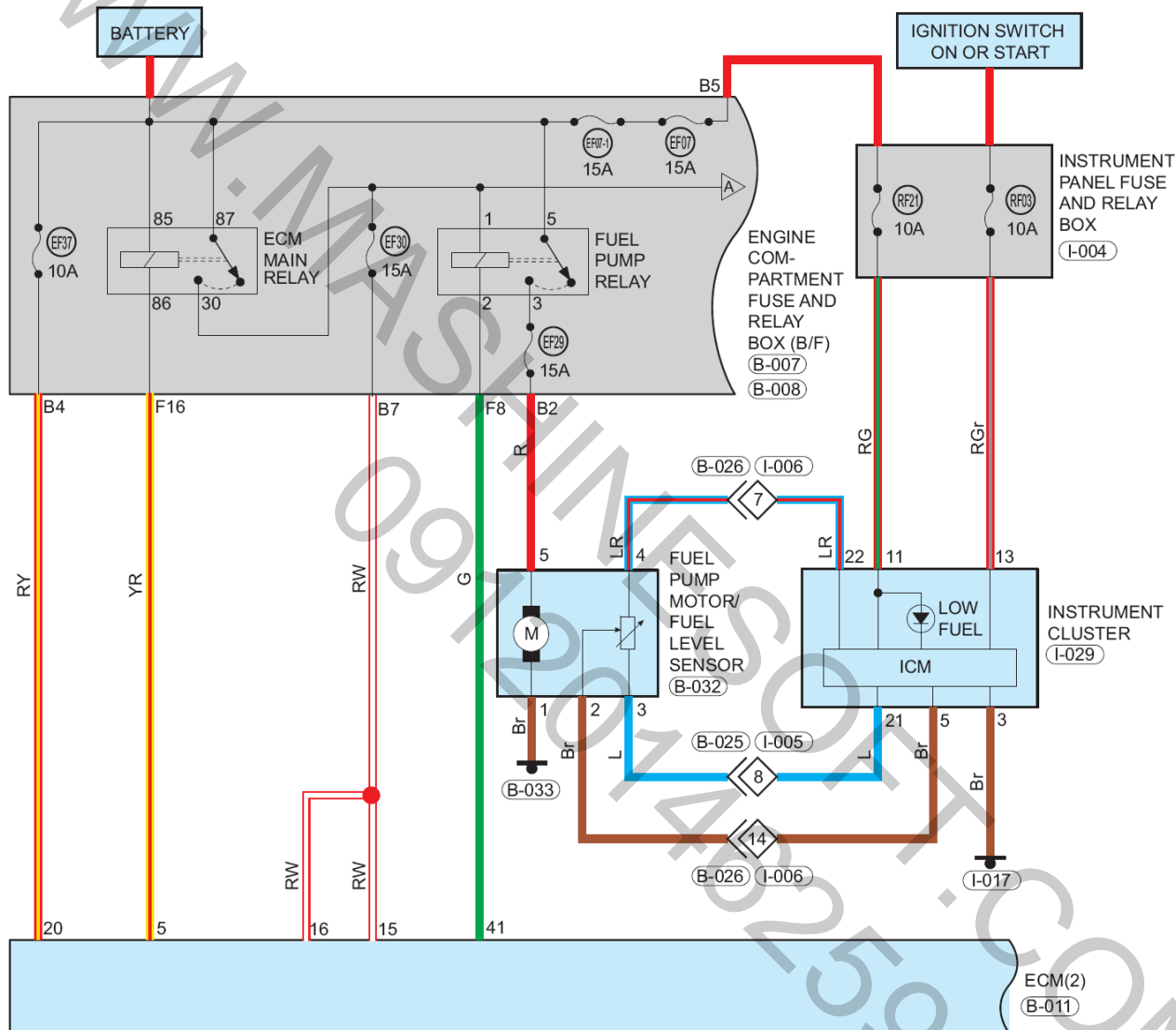


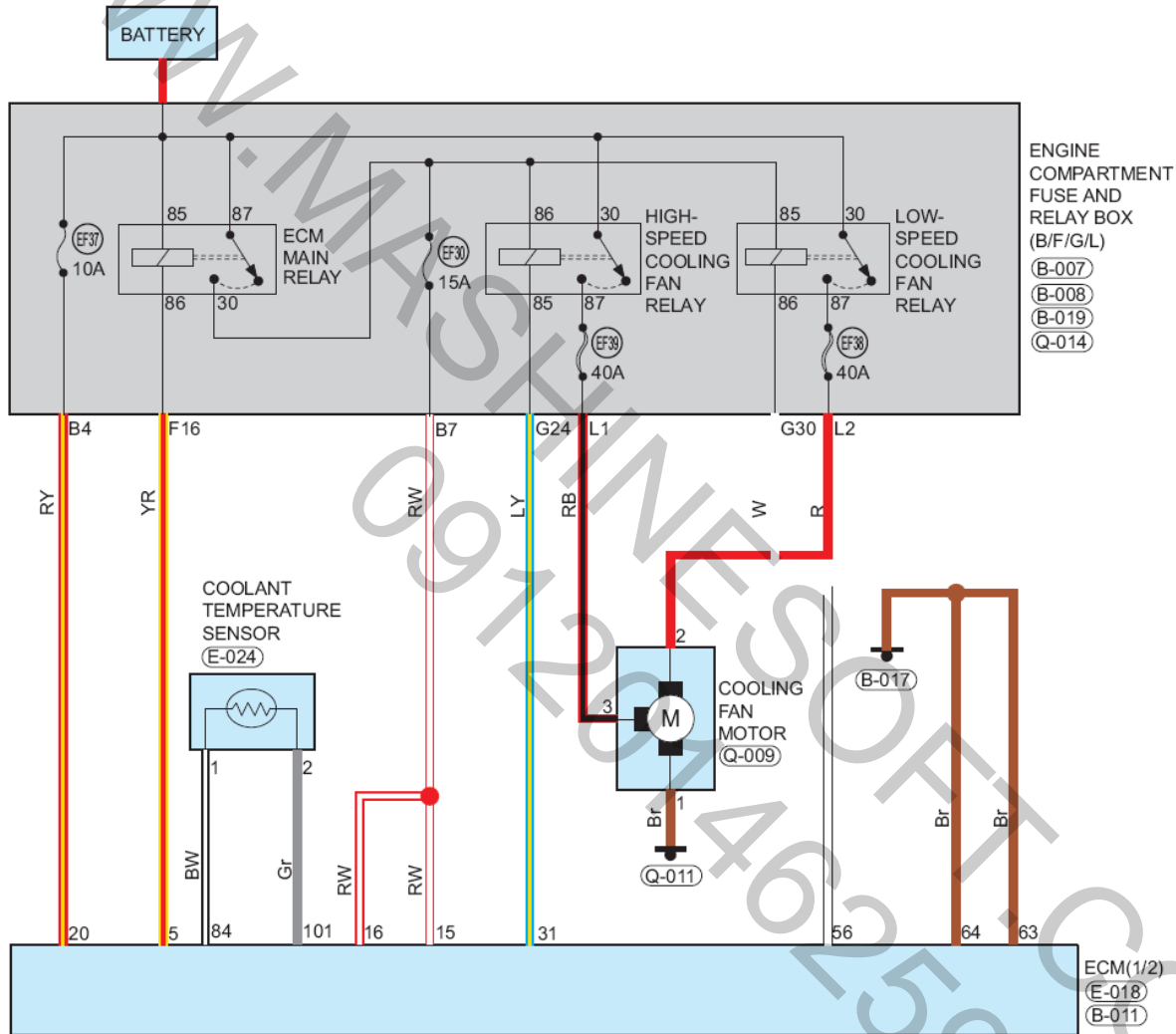
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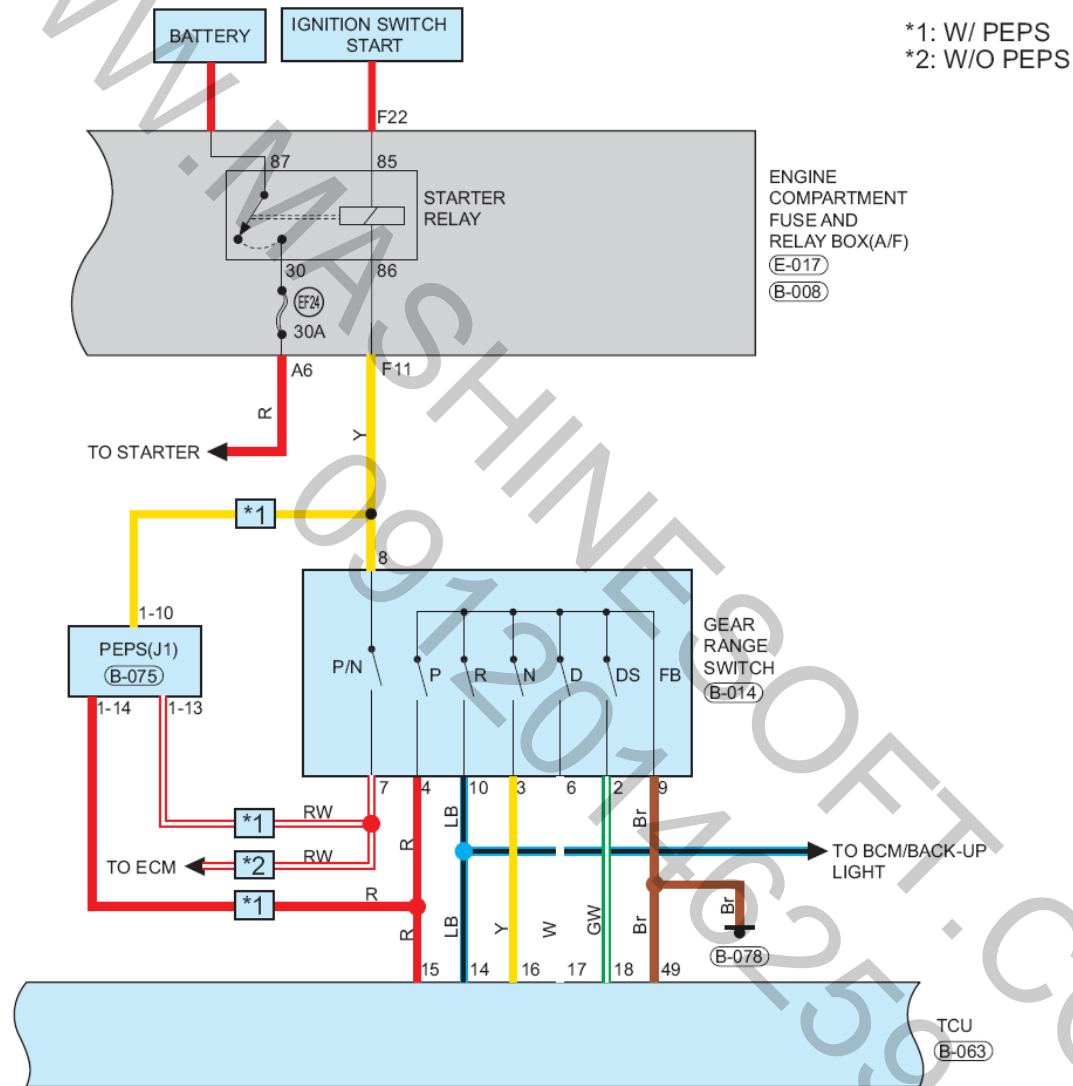
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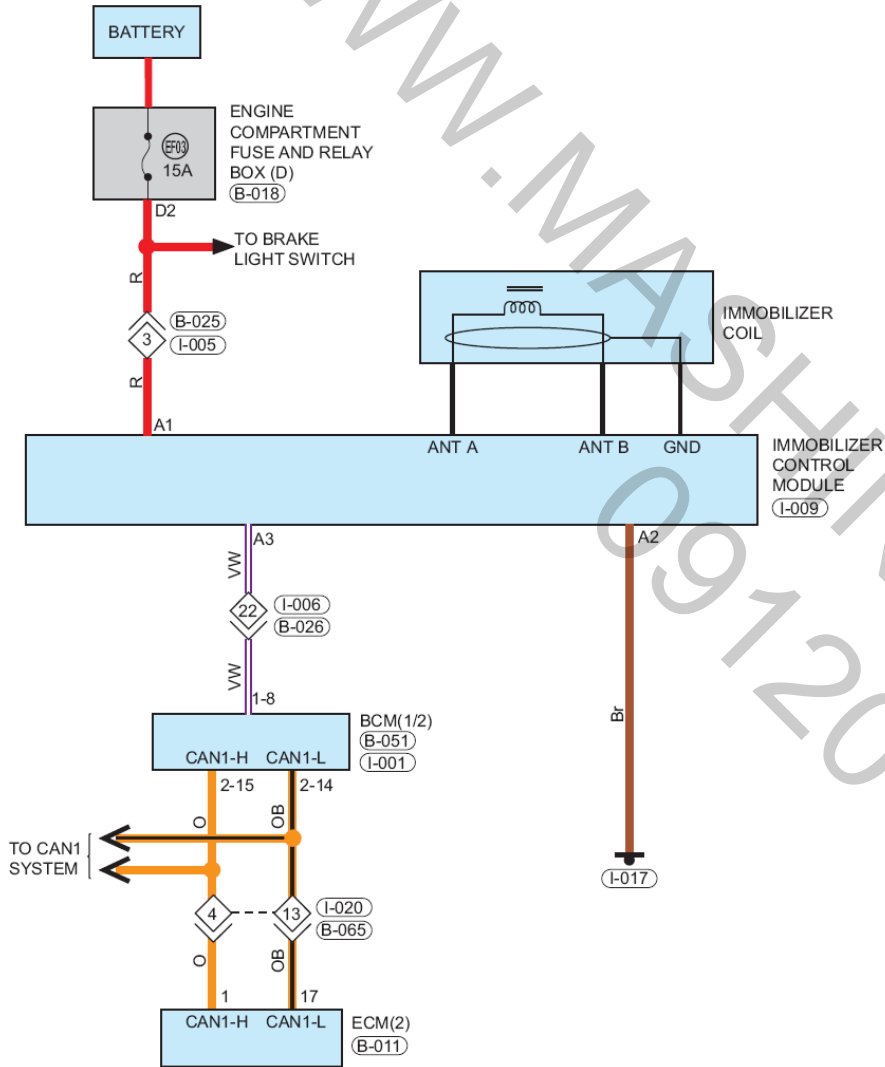


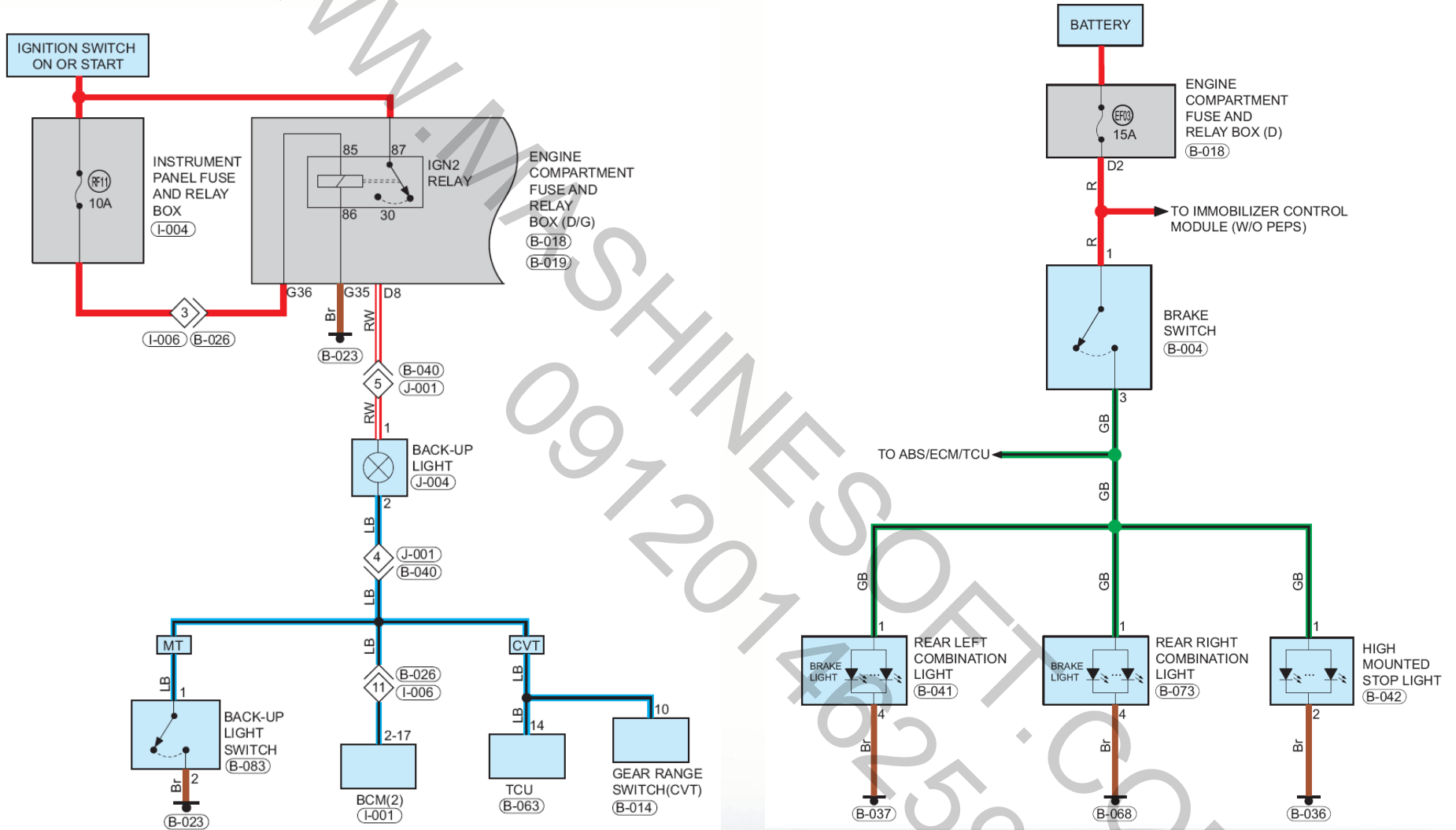


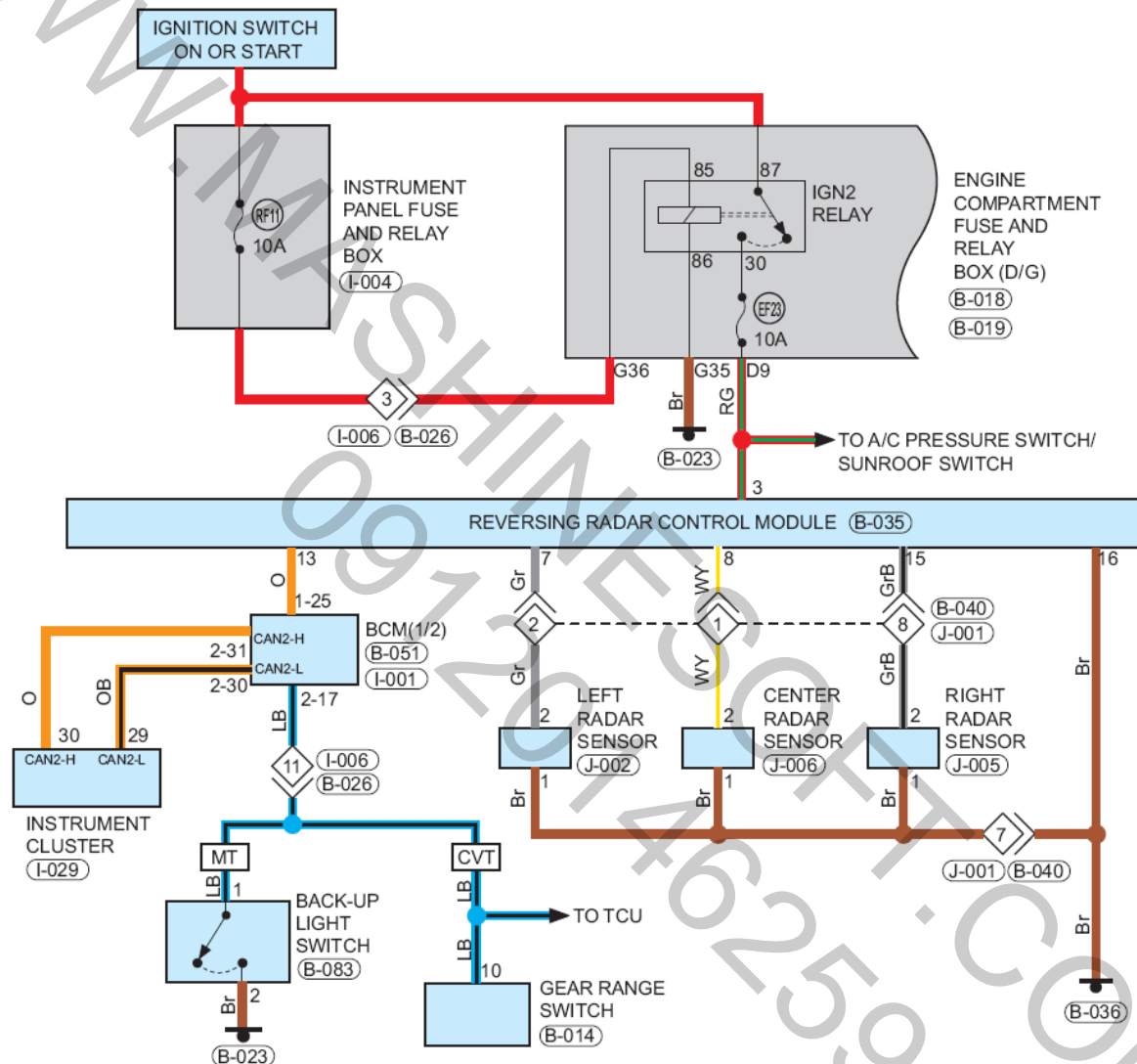


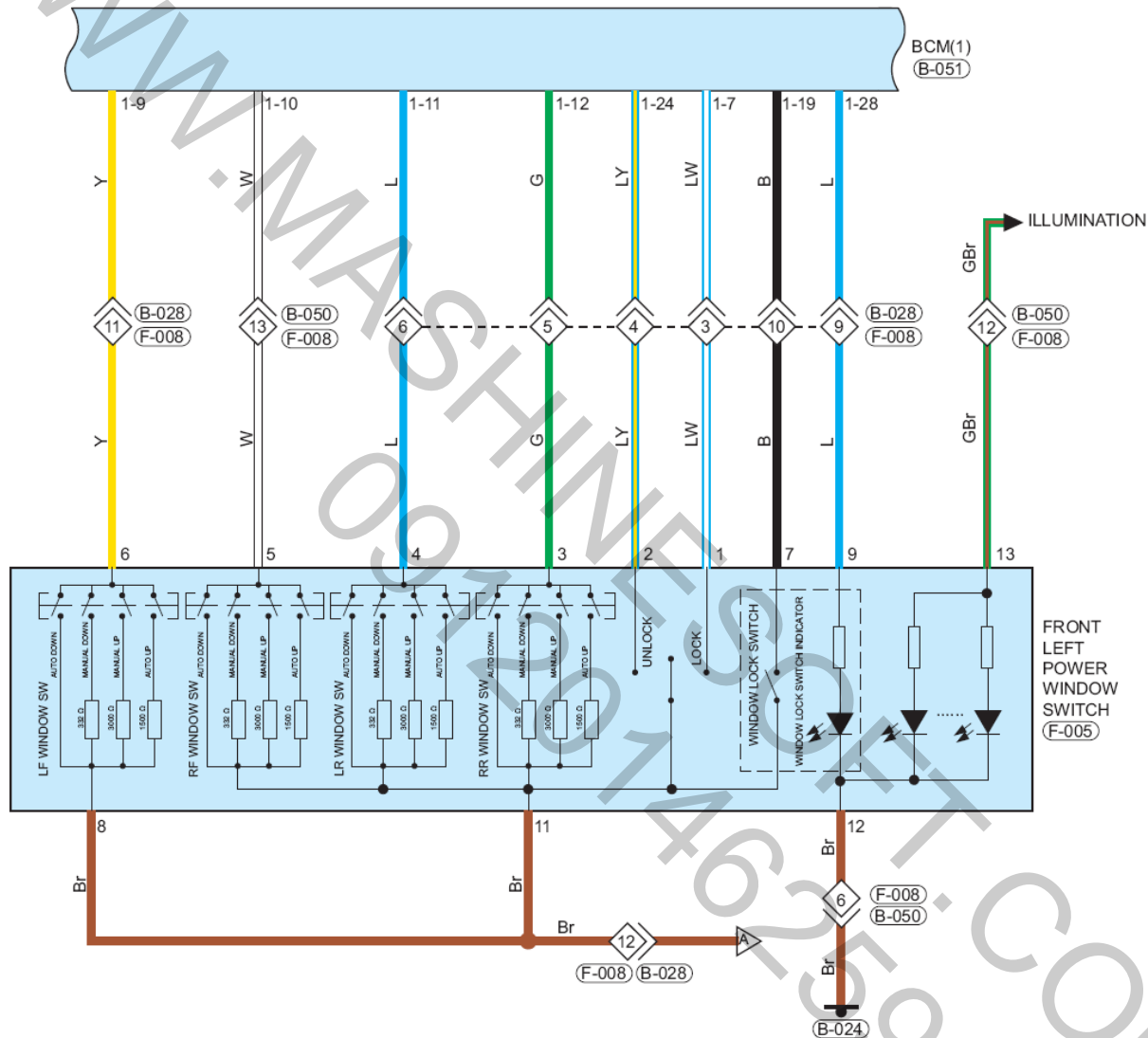


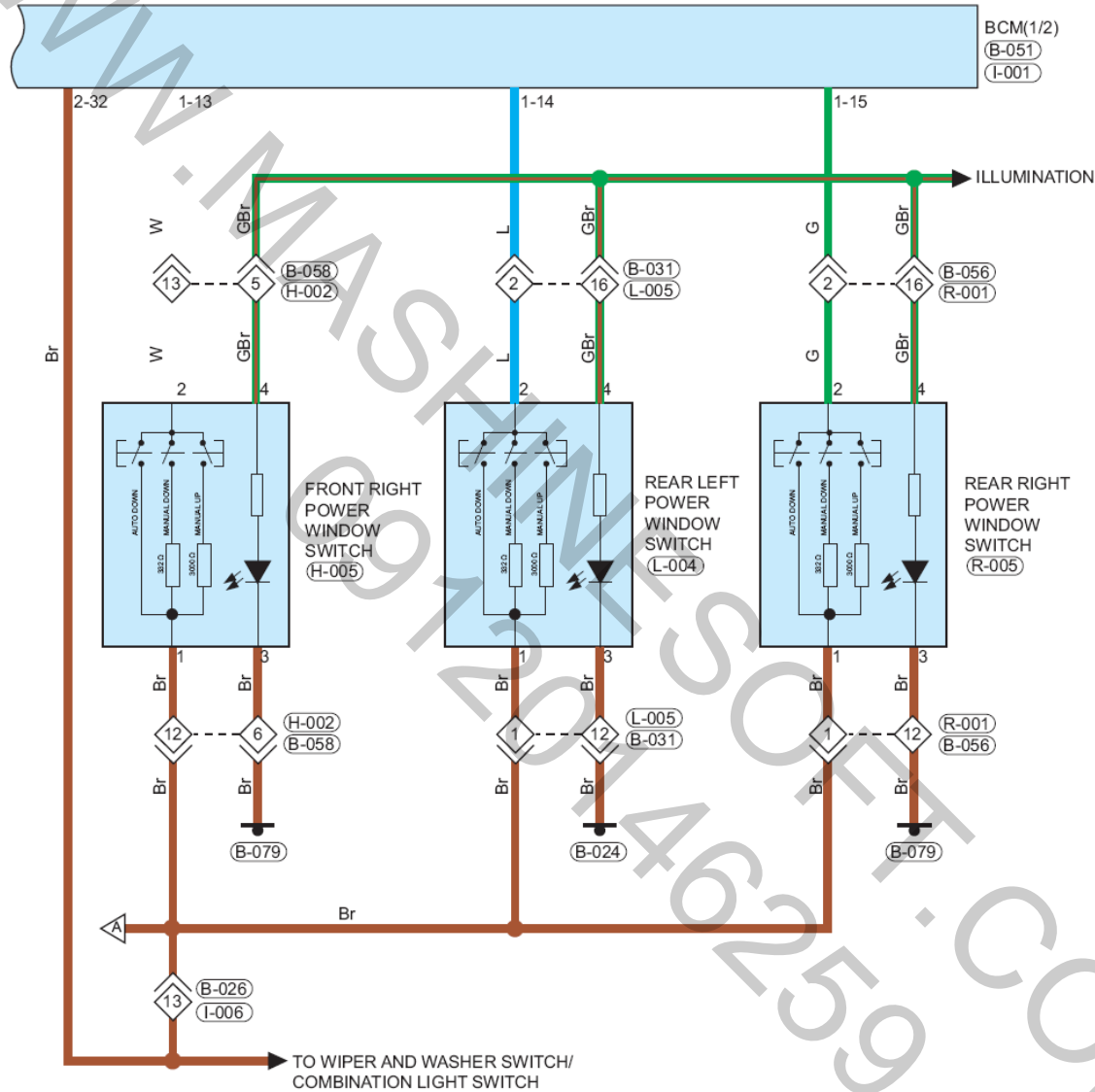




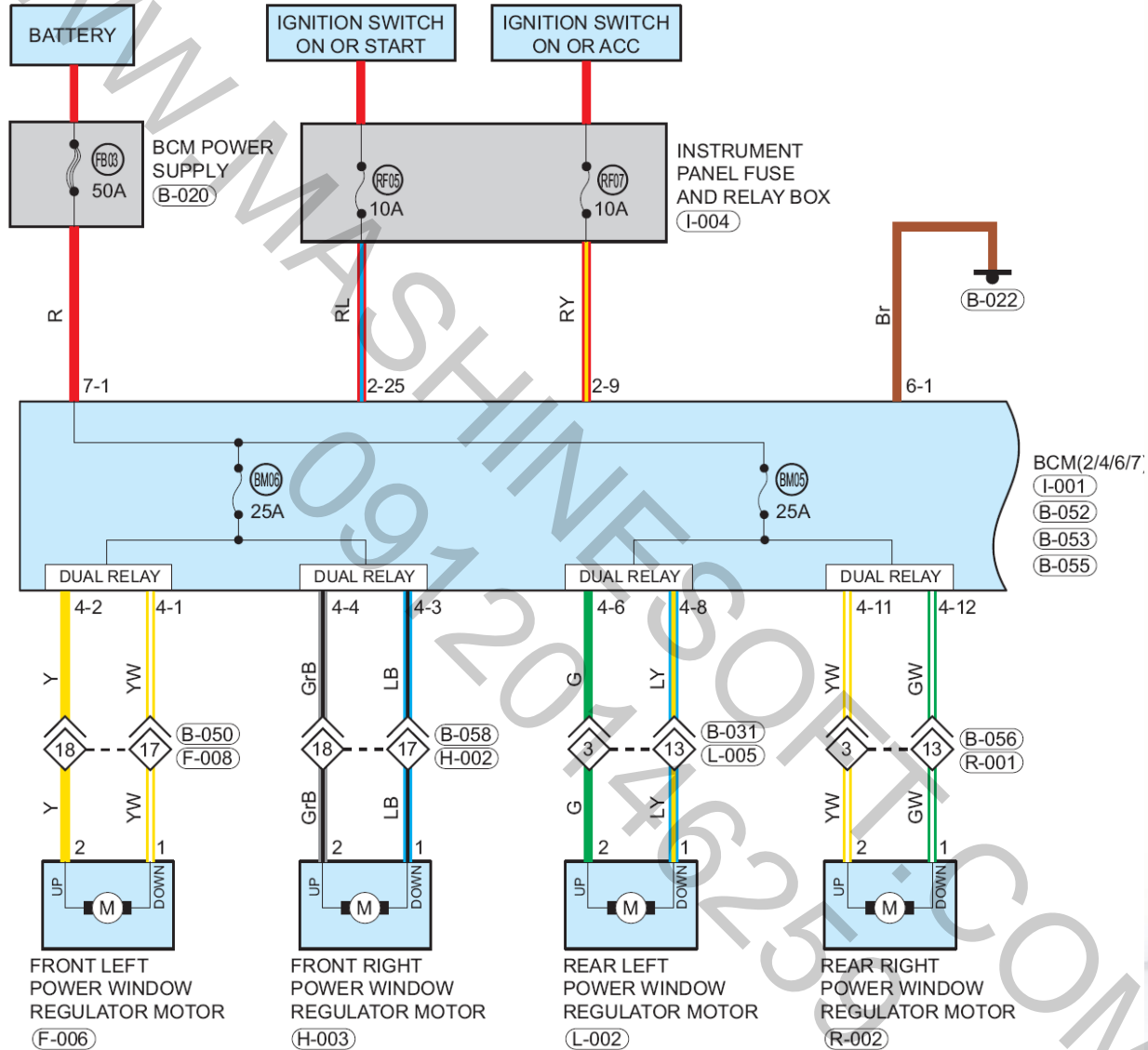


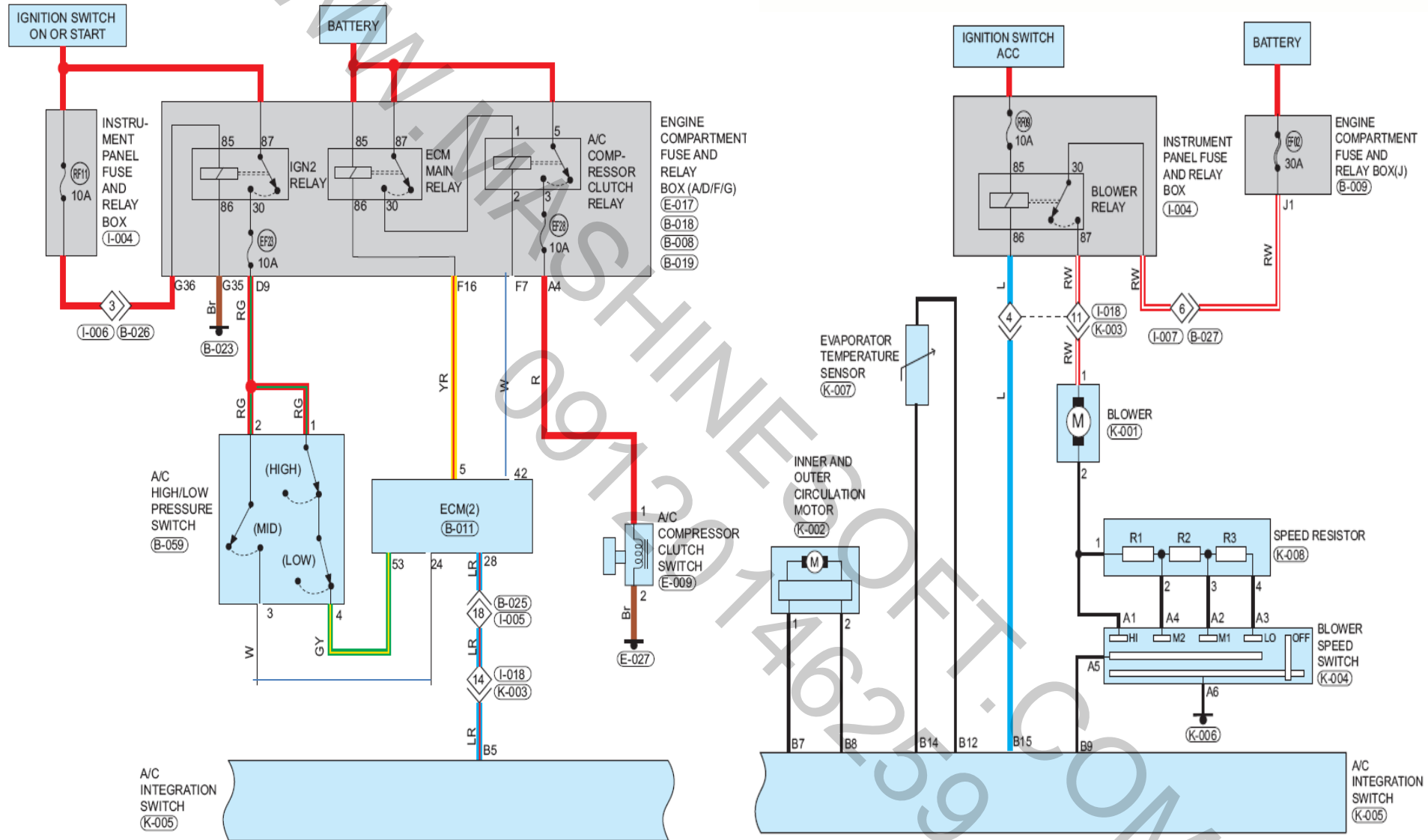


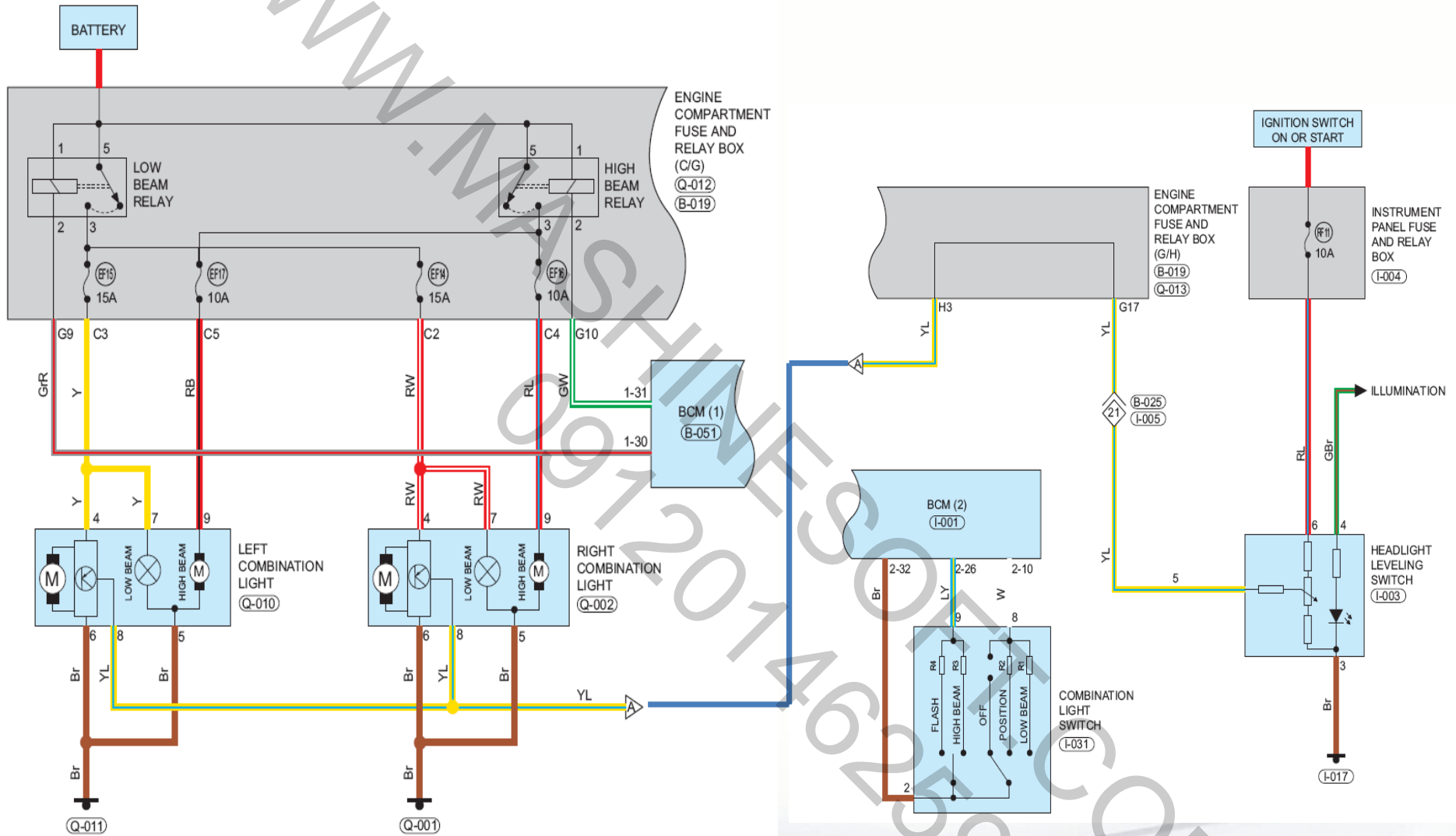


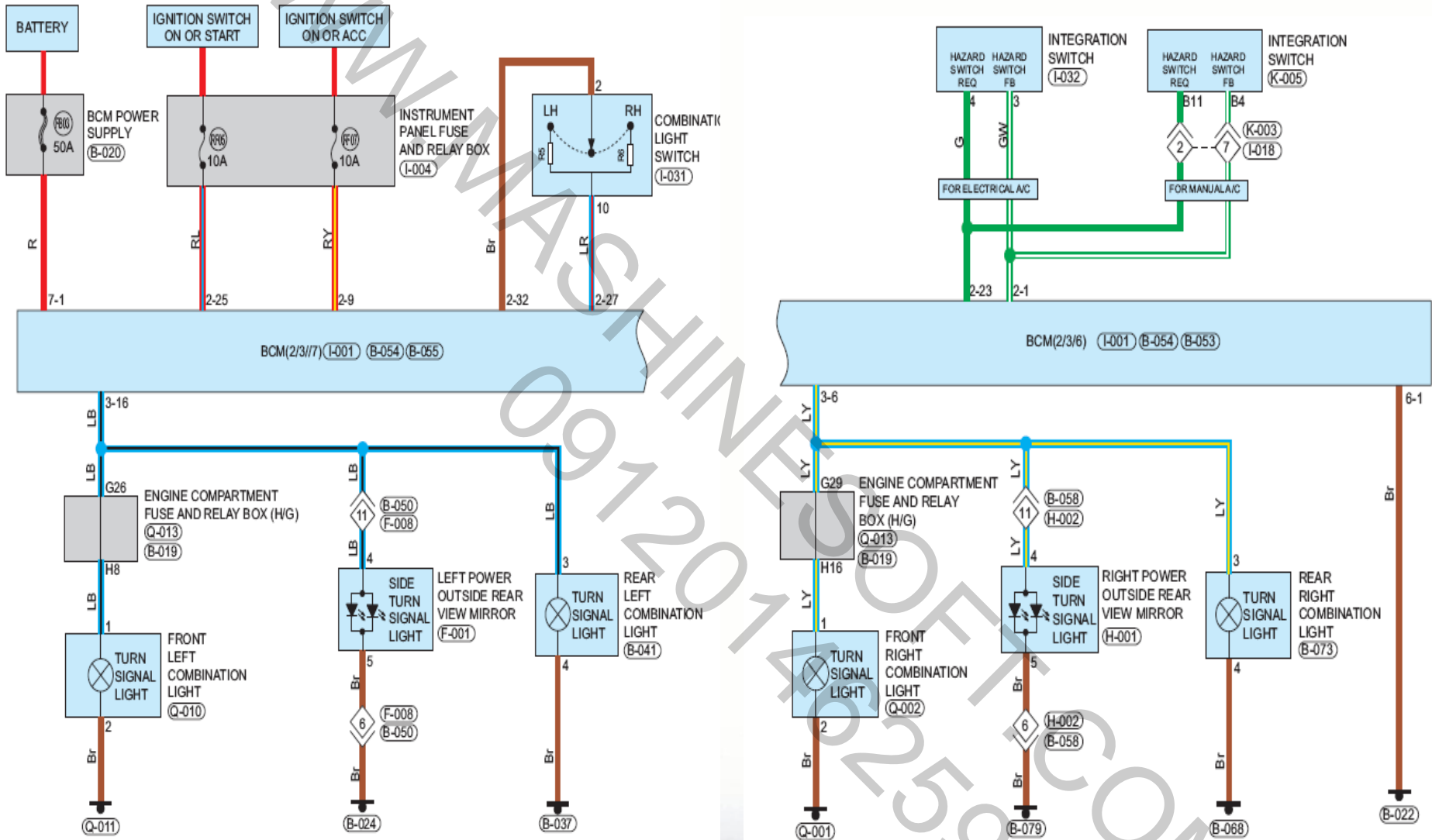


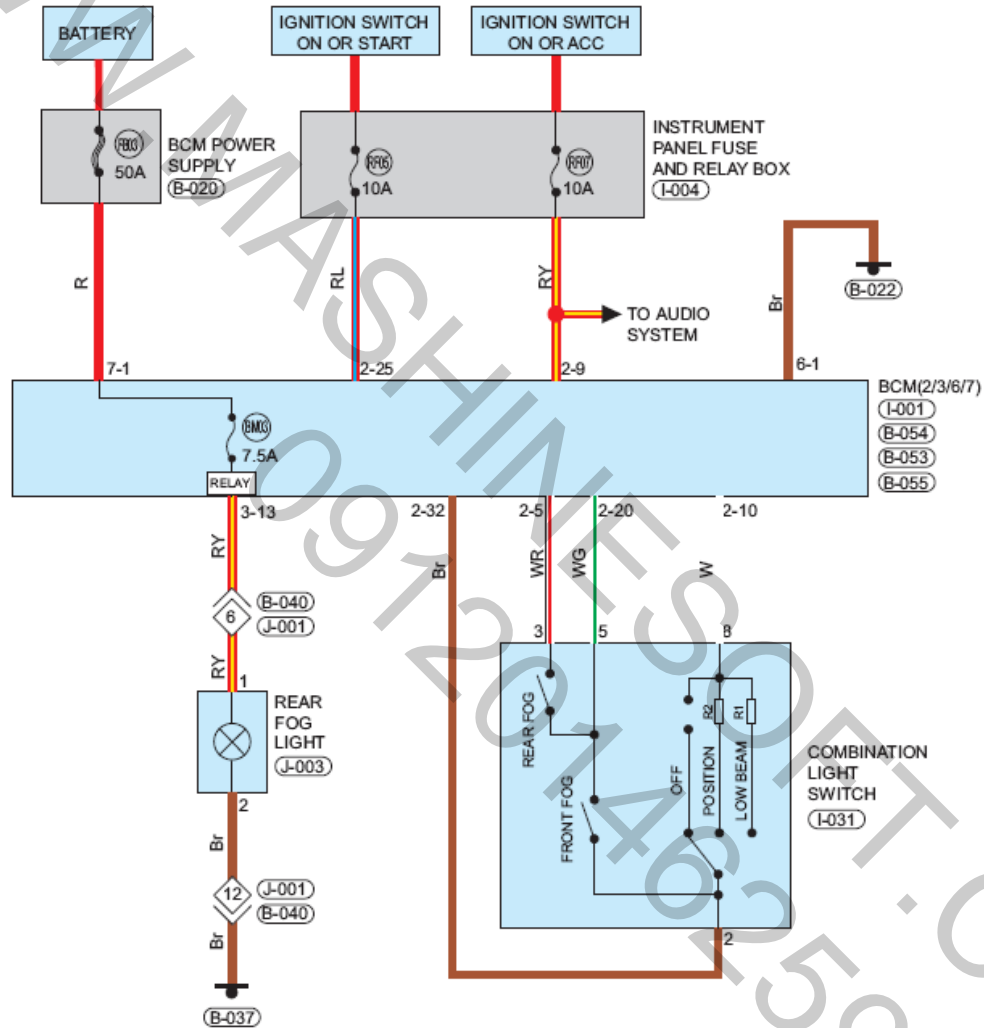


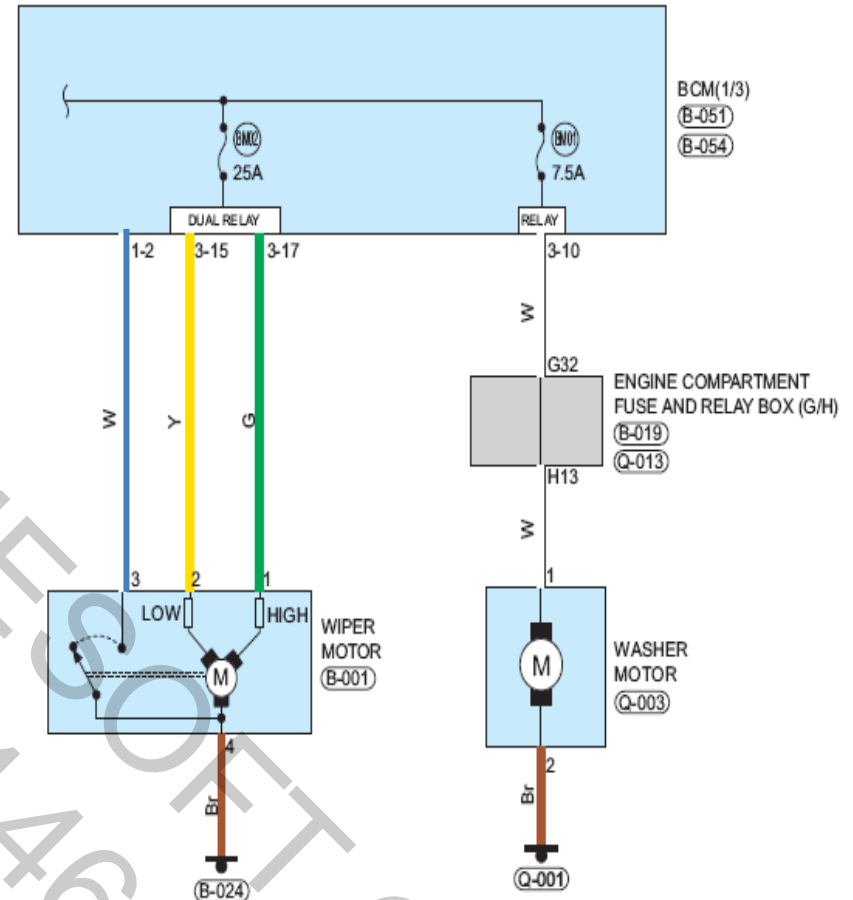
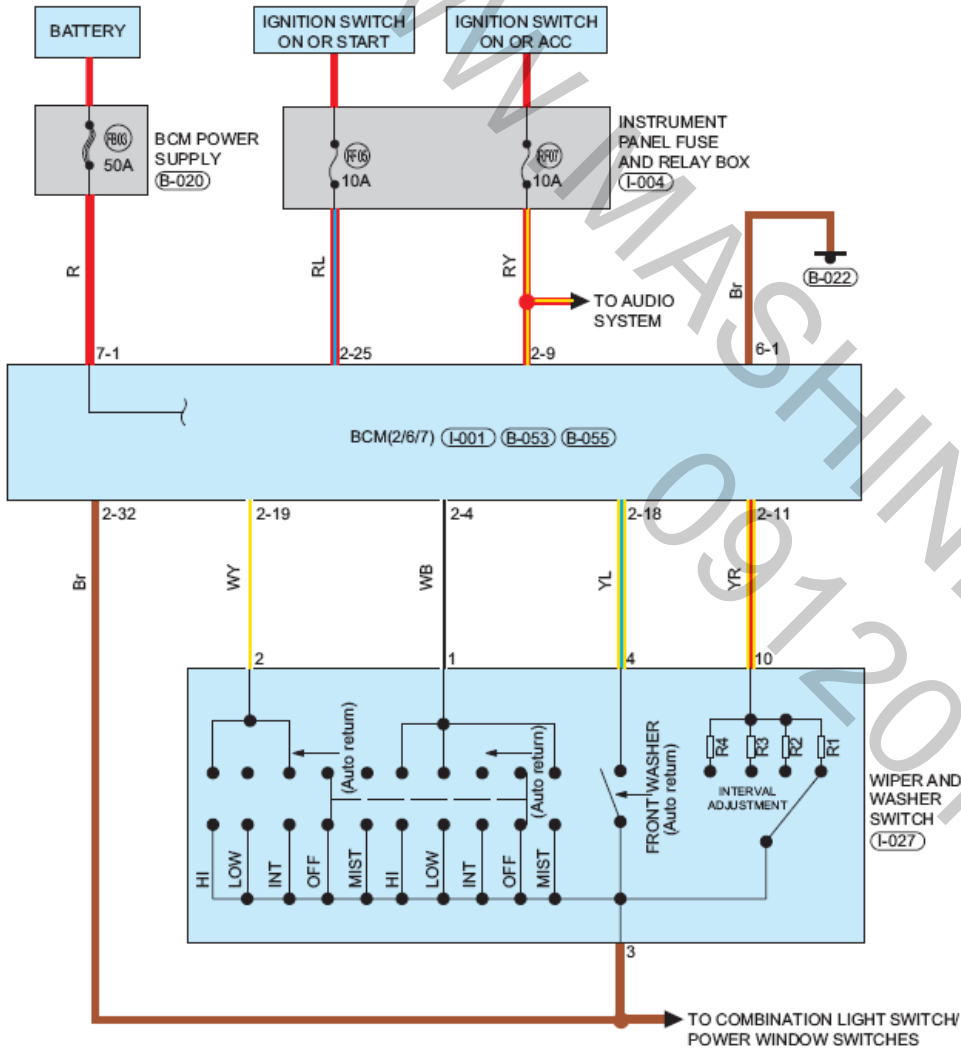




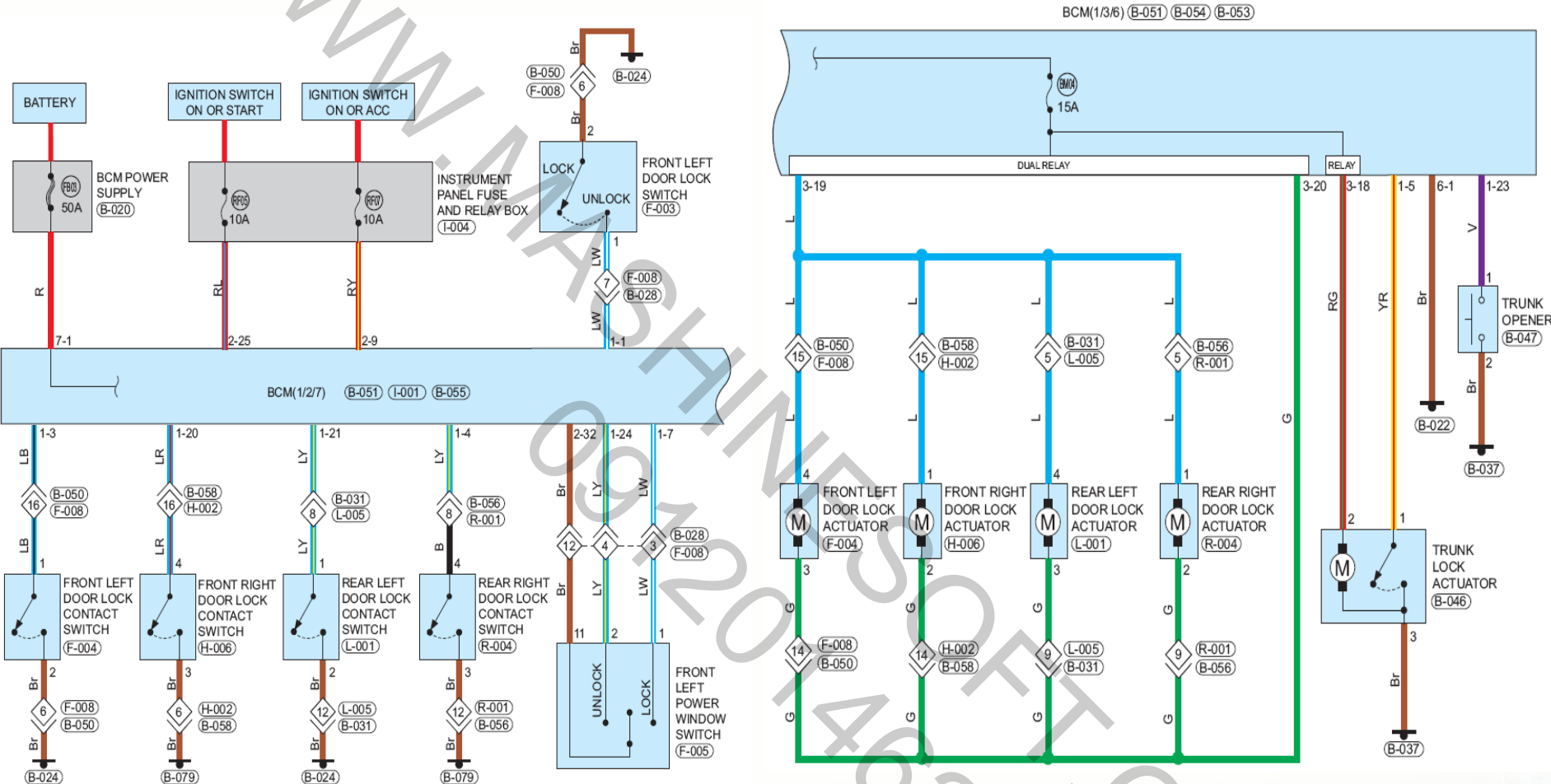


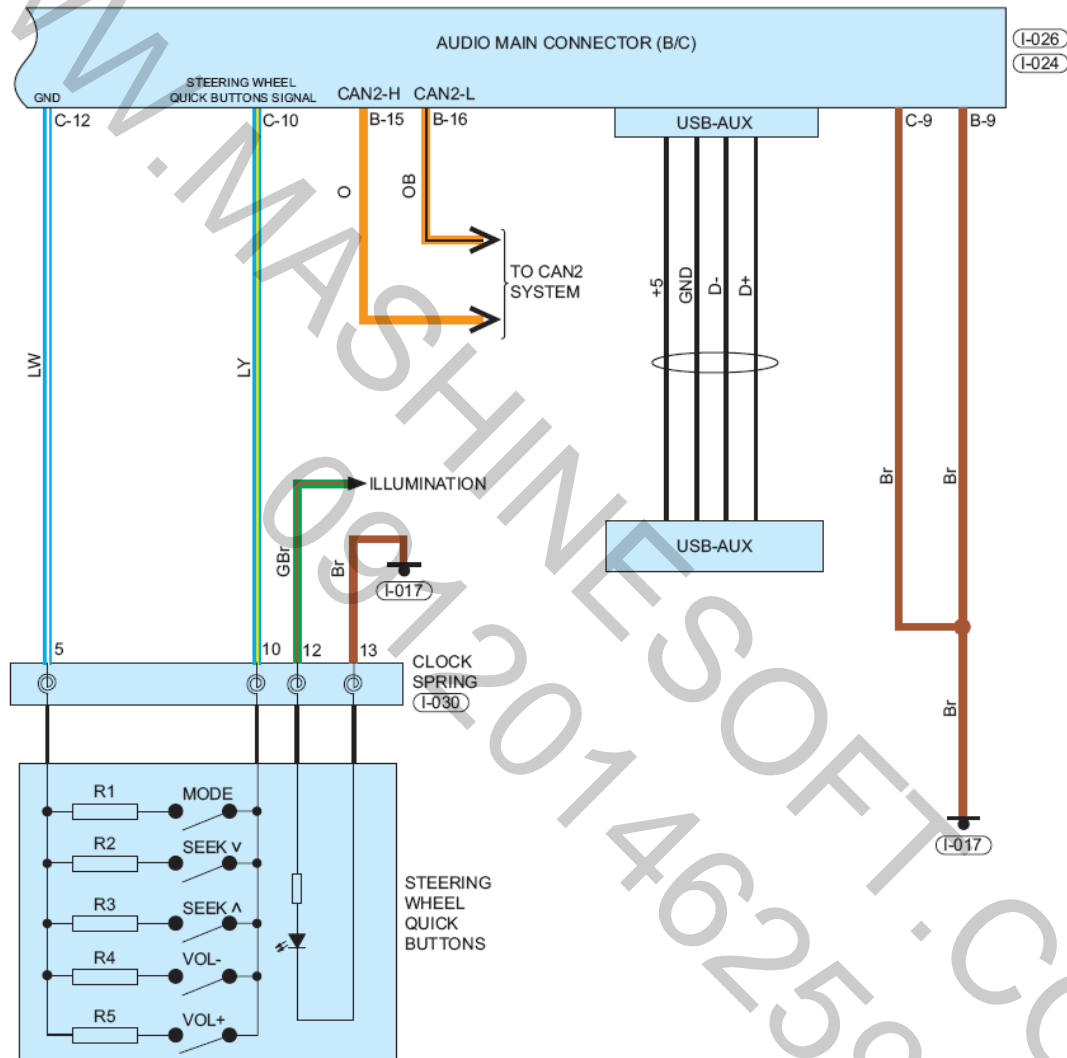




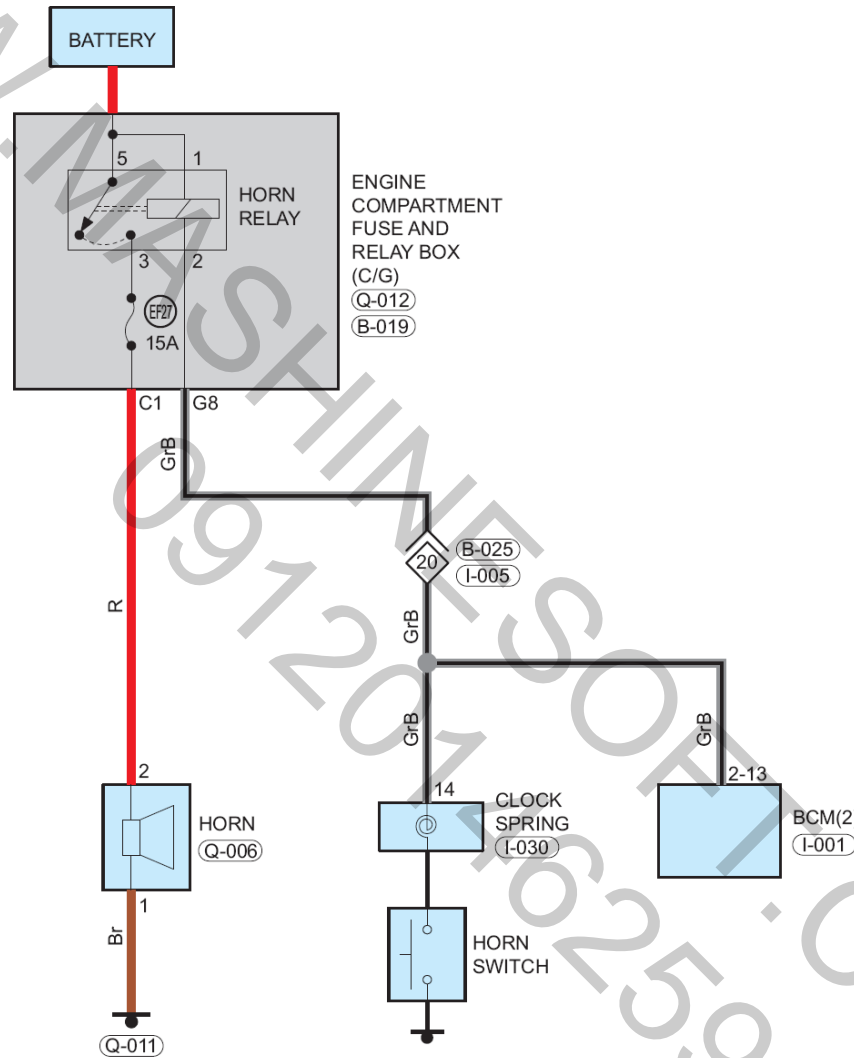


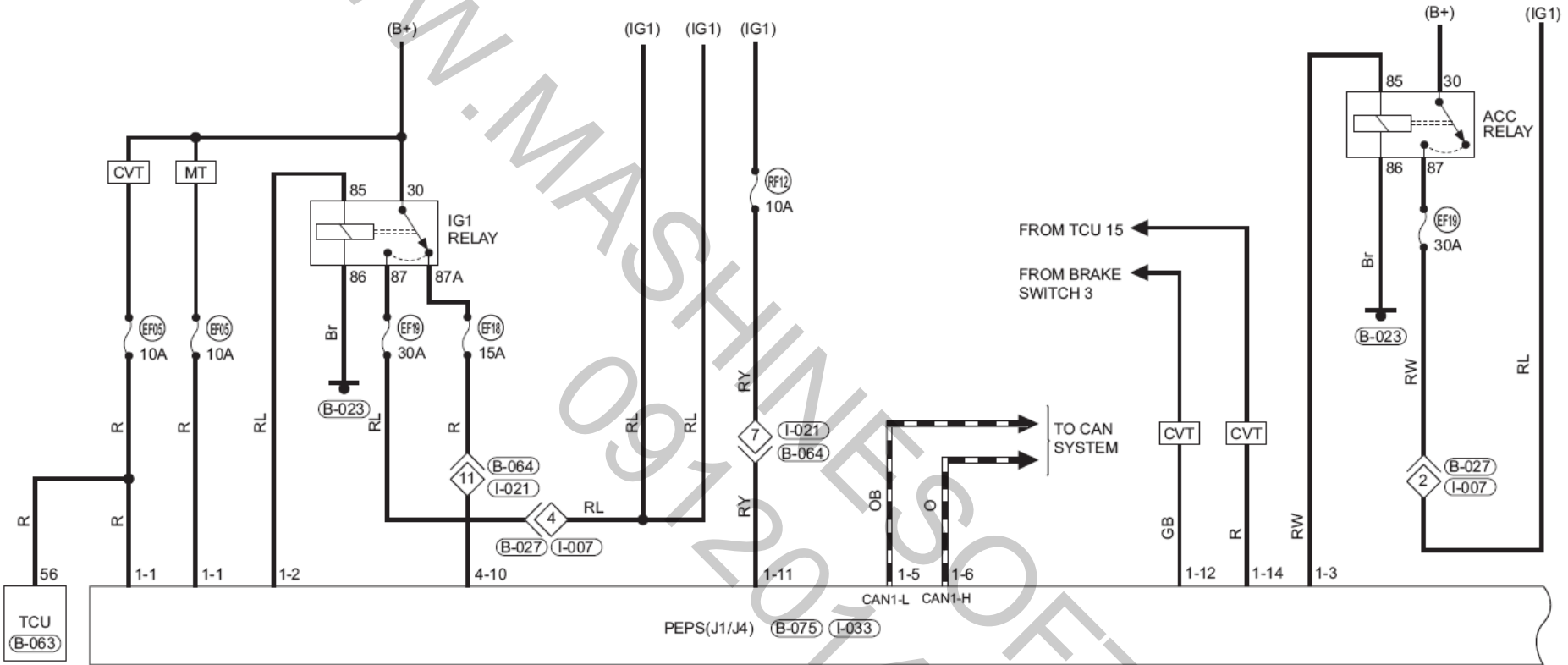
در صورت قطع یا اتصال کوتاه برگردان برف پاک کن چه ایرادی در سیستم برف پاک کن بوجود می آید؟

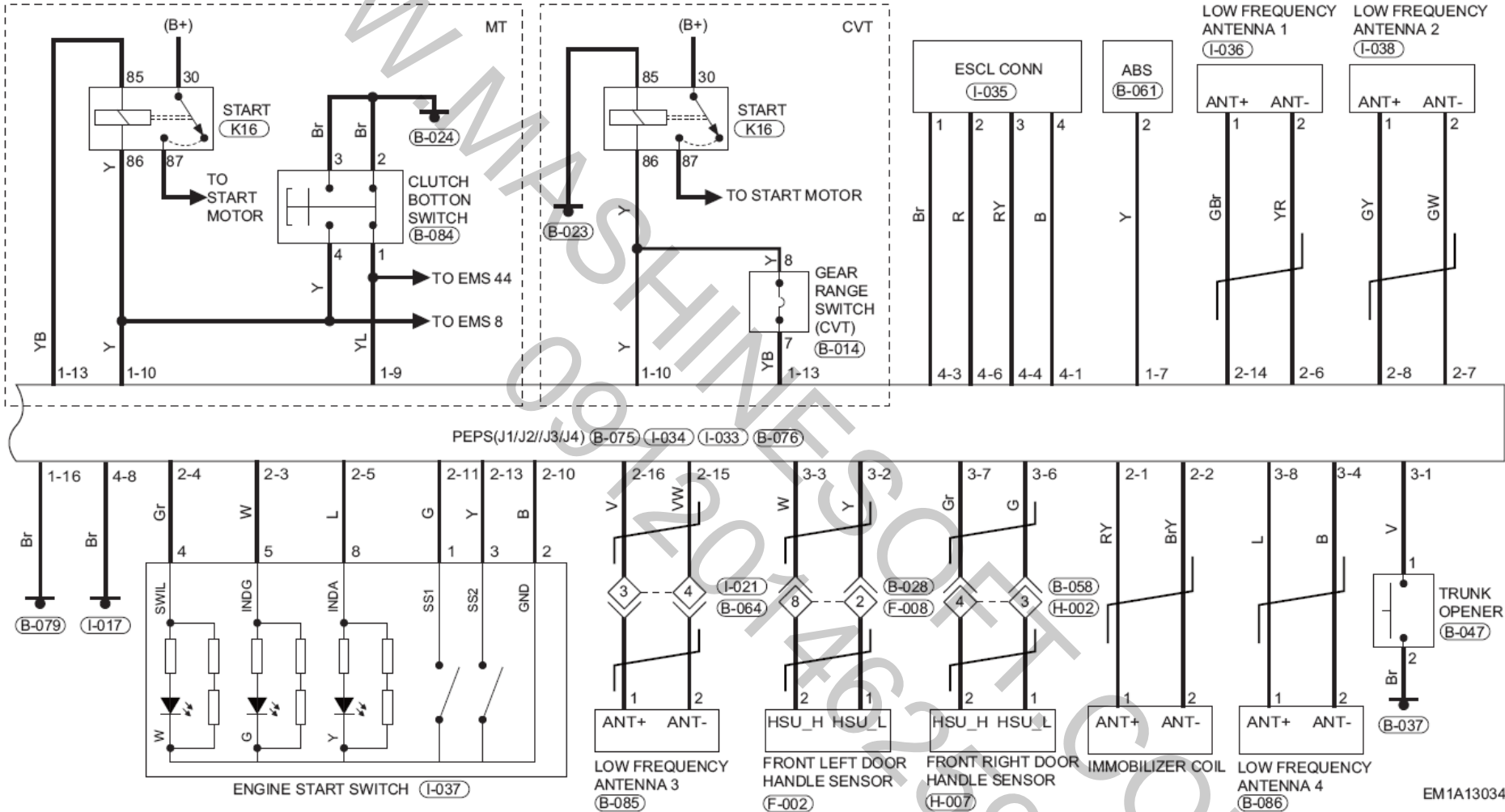




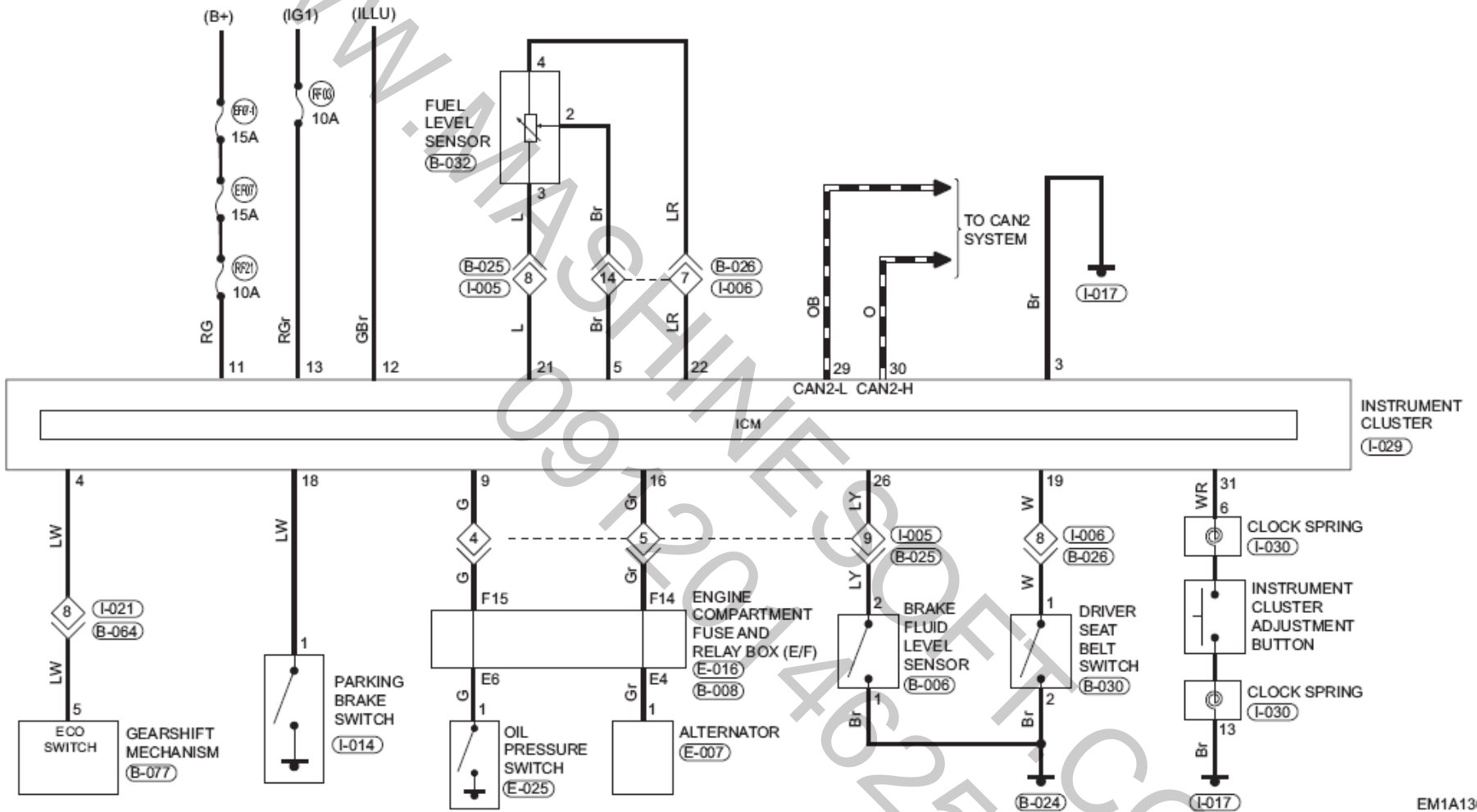




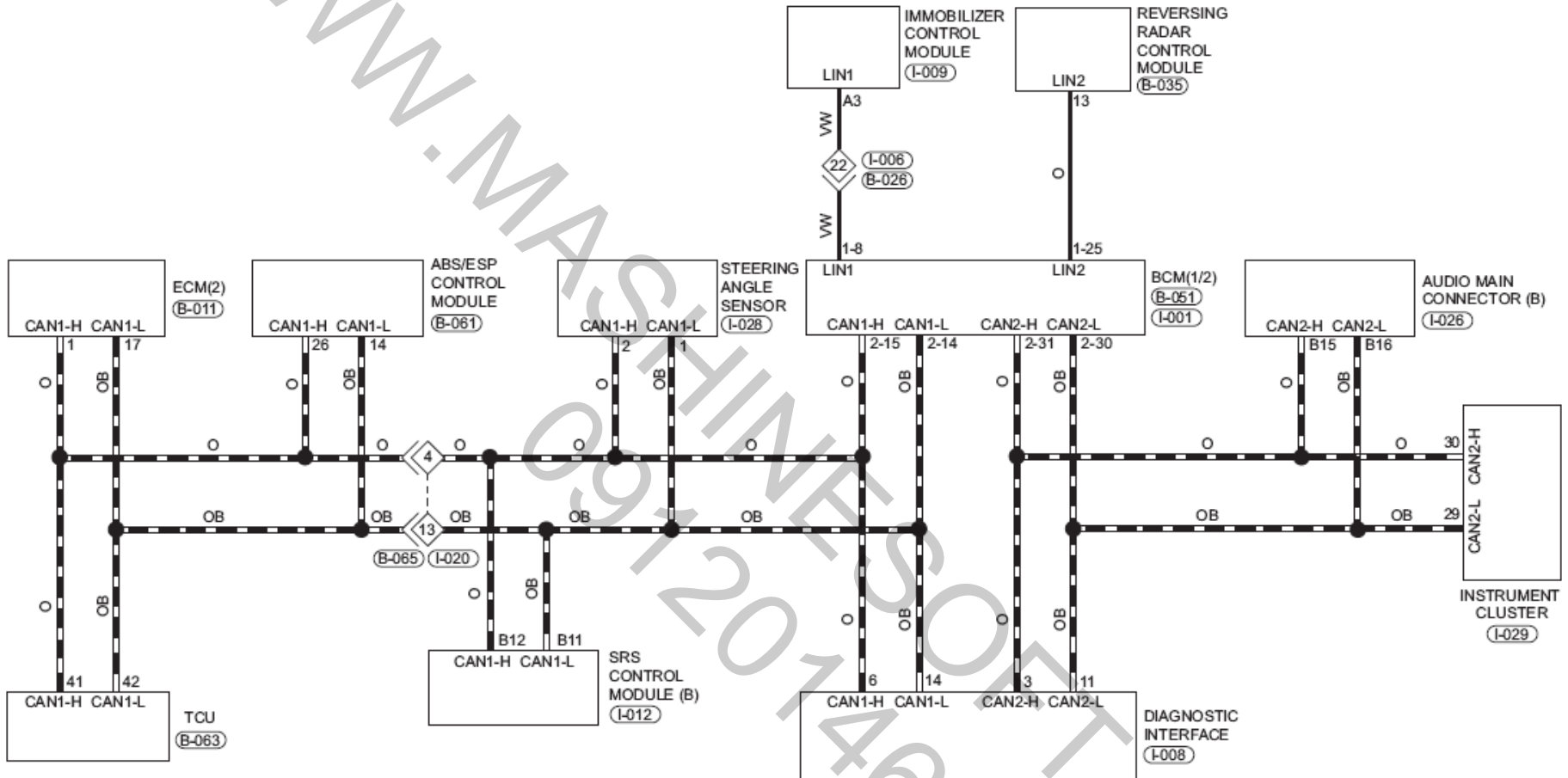




EM1A130340



EM1A130060



EM1A130210



Pin	Function	Pin	Function
PE1			
1	Door lock state signal	10	Front right window switch input
2	Front wiper stop end input	11	Rear left window switch input
3	Front left door opening state signal	12	Rear right window switch input
4	Rear right door opening state signal	13	Passenger's side front right window switch input
5	Trunk lid opening state signal	14	Passenger's side rear left window switch input
6	Reserved	15	Passenger's side rear right window switch input
7	Central control lock input	16	Reserved
8	LIN1—IMMO	17	Reserved
9	Front left window switch input	18	Reserved

Pin	Function	Pin	Function
PE1			
19	Power window disable switch input	26	Reserved
20	Front right door opening state signal input	27	Reserved
21	Rear left door opening state signal input	28	Power window disabled indicator lamp output
22	engine hood contact switch input	29	Front fog lamp Output— external relay
23	Trunk lid unlocking switch input (not for PEPS model)	30	Lower beam lamp output — external relay
24	Central control door unlocking switch input	31	Upper beam lamp output — external relay
25	LIN2— reversing radar	32	Reserved

Pin	Function	Pin	Function
PE2			

1	Hazard warning lamp switch indicator lamp	4	Front wiper input 2
2	Reserved	5	Rear fog lamp input
3	Reserved	6	Reserved

Pin	Function	Pin	Function
PE2			
7	Reserved	20	Front fog lamp Input
8	(not for PEPS model)Key-in state	21	Rear defroster/rearview mirror heating input
9	ACC position	22	Reserved
10	Lower beam lamp, small lamp, automatic lamp, turn-off switch input	23	Hazard warning lamp input
11	Wiper sensitivity input	24	Reserved
12	Rear defroster output	25	Gear signal
13	Horn output	26	Upper beam lamp switch input
14	HS_CAN1_L	27	Turn signal lamp switch input
15	HS_CAN1_H	28	Reserved
16	Reserved	29	Reserved
17	Reversing input	30	HS_CAN2_L
18	Front washer input	31	HS_CAN2_H
19	Front wiper input 2	32	Switch AGND

Pin	Function	Pin	Function
PP3			

1	Reserved	11	Reserved
2	Reserved	12	Reserved
3	Reserved	13	Rear fog lamp output
4	Anti-theft horn output	14	Reserved
5	Battery energy reservation output	15	Low-speed front wiper output
6	Right turn signal lamp output	16	Left-hand steering output
7	Left small lamp output	17	High-speed front wiper output
8	Right small lamp output	18	Trunk lid unlocking output
9	Reserved	19	Central control locking output
10	Front washer output	20	Central control unlocking output

Pin	FunctionF	Pin	Function
PP4			

1	Front left window down output	7	Reserved
2	Front left window up output	8	Rear left window down output
3	Front right window down output	9	Trunk lid lamp output
4	Front right window up output	10	ceiling lamp output(DOOR CONTROL position)
5	Safety indicator lamp output	11	Rear right window up Output
6	Rear left window up output	12	Rear right window down Output
PP7			
		Power supply	
PP6			
		GND	



### Conditions of activation:

1. Within 2 min when turning the ignition key to OFF;
2. The Flash switch is activated temporarily;
3. Each time by switching the Flash switch, the function will be activated for 30s, and the function can be activated for 8 times, i.e., 240s, at the maximum.

### Function:

For each switching, the function will be activated for 30s, and the function can be activated for 8 times, i.e., 240s, at the maximum. At the same time, BCM will turn the exterior small lamp and lower beam lamp on, and the instrument will indicate accordingly.



### Condition of deactivation:

- ① Follow me home function time out
- ② Press and hold the Flash switch
- ③ Turn the ignition key to ACC or ON

**Remark:** If the function times out and get deactivated within 2 min, this function can still be activated.

Condition of activation:

1. IGN OFF;
2. Follow Me Home function activated (Light times out and goes off);
3. Passive keyless entry signal is received;
4. Four doors are closed.



Condition of deactivation:

1. Keyless locking signal is received;
2. Any door is open;
3. The ignition key is turned to ACC or IGN ON.

**Remark:** When LMC function is activated, the lower beam lamp and small lamp will go on and last for 60 s at the maximum.

### Condition of activation:

1. When traveling at the speed of over 50 km/h;
2. The brake pedal is depress to the end;
3. The exterior turn signal lamp and turn signal lamp instrument indication as well as the hazard warning lamp will flicker twice as fast as in the normal condition.

### Condition of deactivation:

1. Re-activate the interior hazard warning lamp switch;
2. The acceleration pedal is depressed;
3. The ignition key is turned to OFF.

### Condition of activation:

1. The ignition key is turned to ON;
2. The impact signal is received from ABM;
3. The unlocking is activated at the first time, and at the second time after 1s;
4. The ceiling lamp (if the ceiling lamp is turned to DOOR) and hazard warning lamp will be turned on simultaneously, and turned off after 15 min.

### Condition of deactivation:

The ignition key is turned from ON to OFF, and then to ON again.

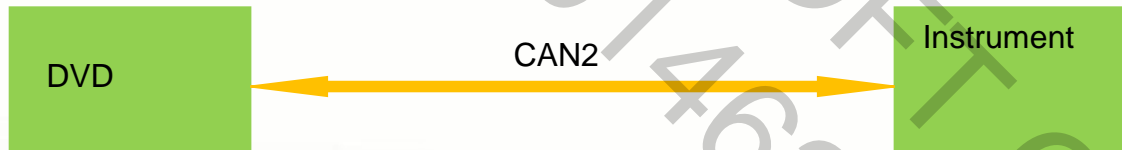
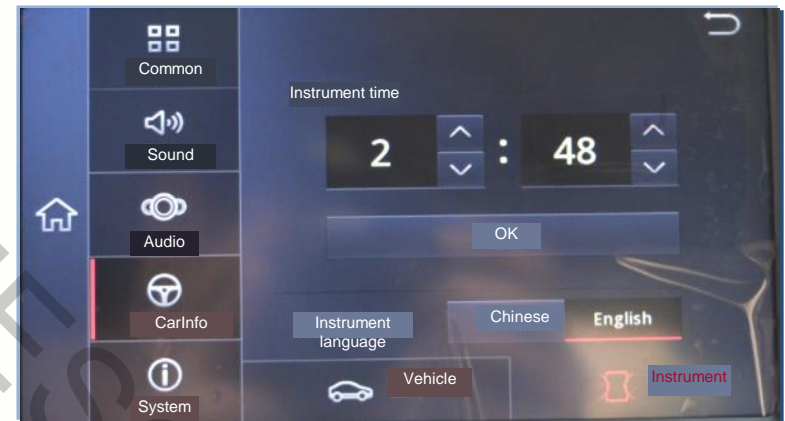
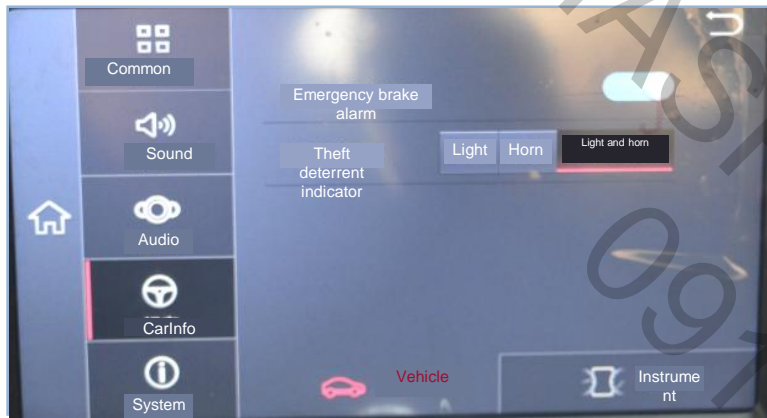
### Remark:

After impact, the central control locking function is disabled, but the central control unlocking function can be activated. The central control locking function can be restored through the following operation: turning the ignition key from ON to OFF.

The following functions can be set through DVD interface:

- Vehicle response in case of successful body anti-theft setting (only horn, only lamplight, or horn + lamplight, all OFF), horn + lamplight by default;
- Disabling of double-flash in emergency braking function, which is enabled by default.

No.	Buzz
1	Reversing radar
2	Over-speed alarm (inapplicable to domestic models)
3	Safety belt and front passenger's safety belt unfastened alarm
4	Key-in-ignition alarm (applicable to models with mechanical key)
5	Door open alarm
6	Hand brake ON alarm
7	Low oil pressure alarm
8	Left/right steering
9	High engine water temperature alarm
10	PEPS



در صورت مشاهده کد خطای U1300-55 configuration code error ، می بایست پیکره بندی ثبت شده در پشت آمپر (به شرح زیر) را با امکانات خودرو مقایسه نمایید. در صورت مغایرت می بایست کد پیکره بندی صحیح در پشت آمپر ثبت شود.

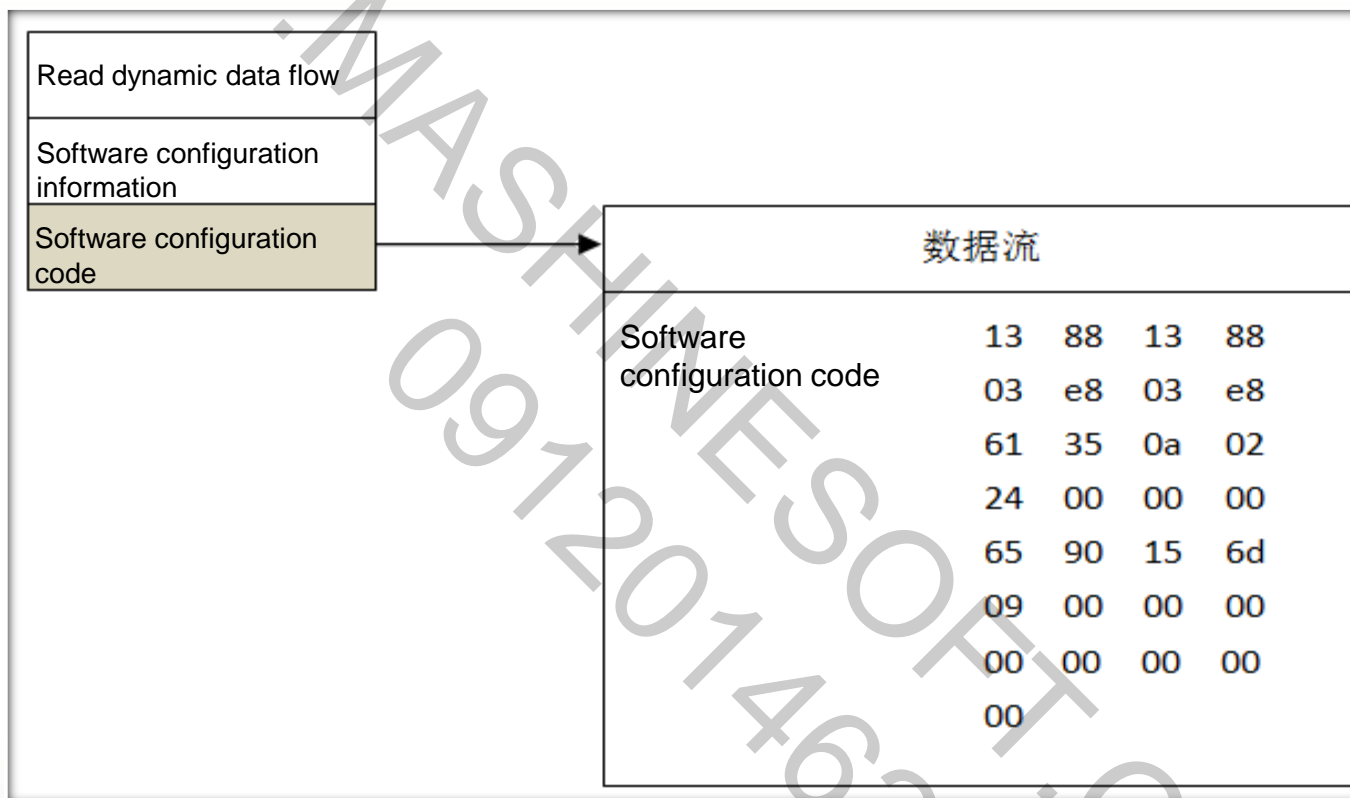
Read dynamic data flow
Software configuration information
Software configuration code

Data Flow	
Mileage for initial maintenance	5000Km
Mileage between scheduled maintenance	5000Km
Fuel consumption correction factor	1.00
Initial fuel consumption	10.00
PPK value	24885.00
Upper limit of fuel consumption	20L/100KM
Unit of temperature	°C
Language	Chinese
Speed	0.00Km/h
KM/Mile	Metric system
Over-speed alarm function	Not equipped

Over-speed alarm function	Not equipped
Position of driver's seat	Left-hand
Drive type	Front drive
Type of steering system	EPS system
Type of brake system	ESP
Transmission type	CVT
Airbag	6-way airbag
Daytime running lamp	Available
Engine fuel type	Gasoline
Cruise function	Available
Tire pressure system	None
A/C type	Single-zone automatic
PEPS system configuration	PEPS

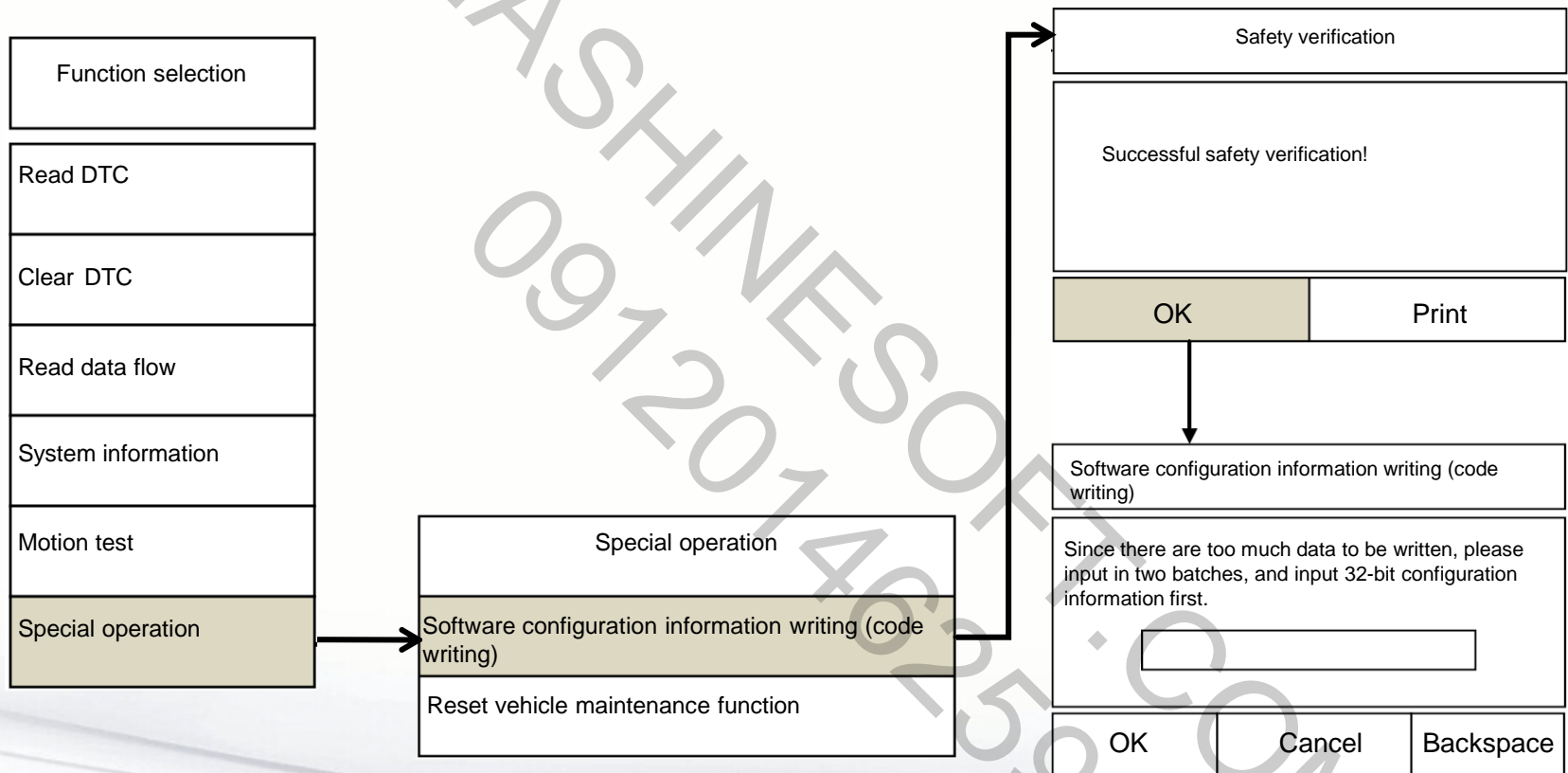


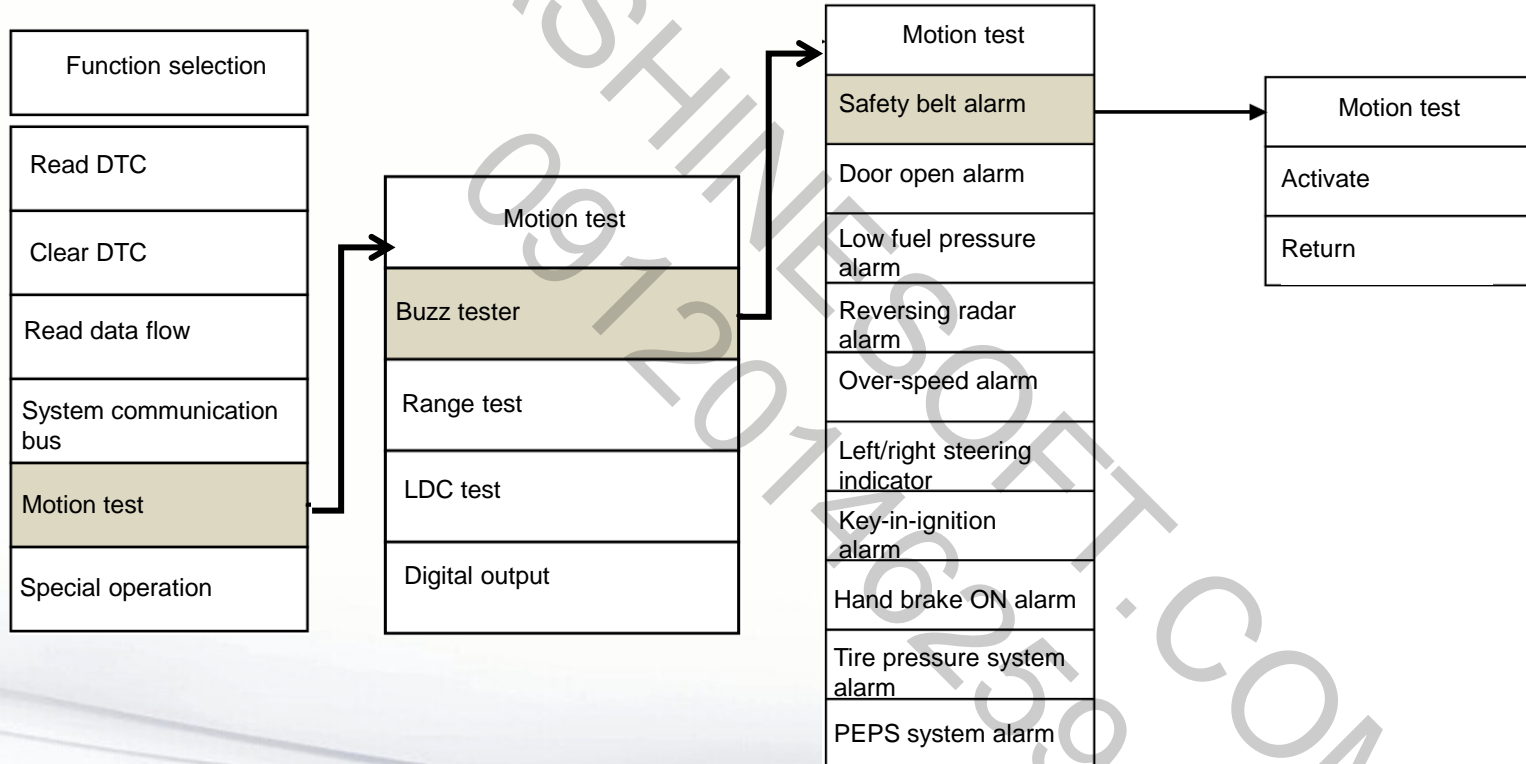
## یک نمونه کد پیکره بندی پشت آمپر

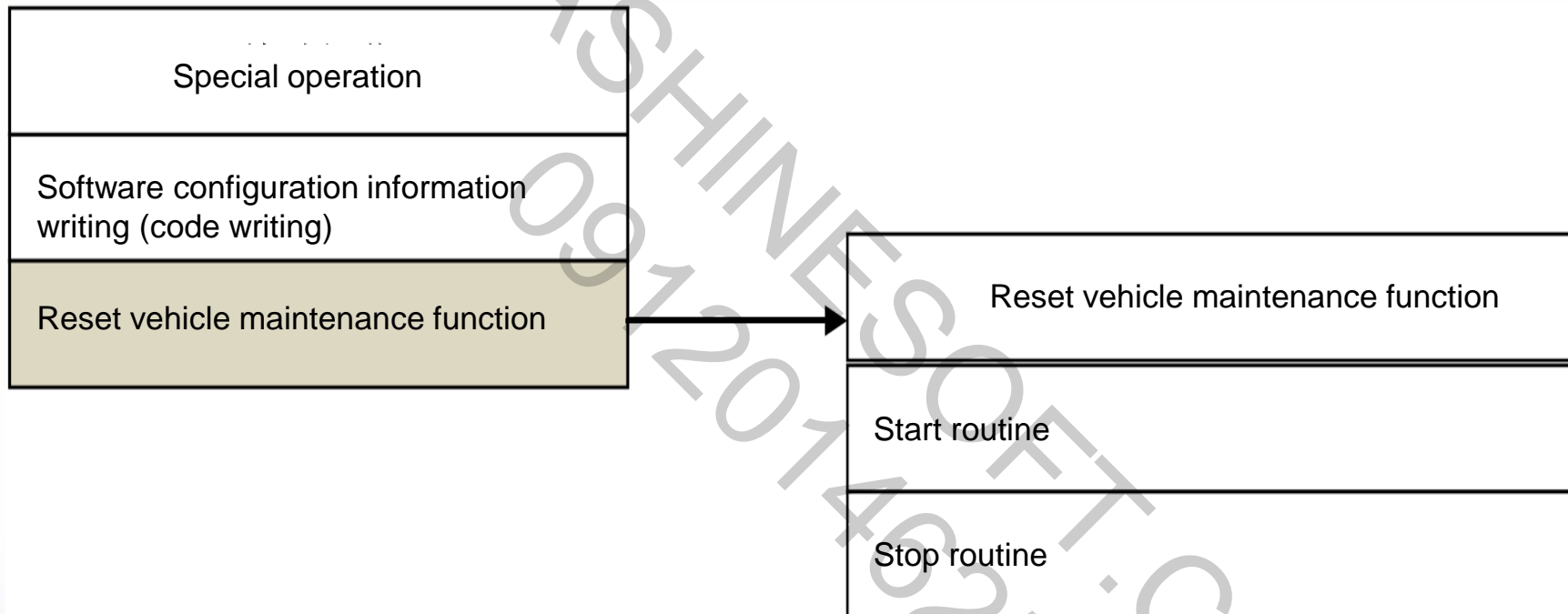


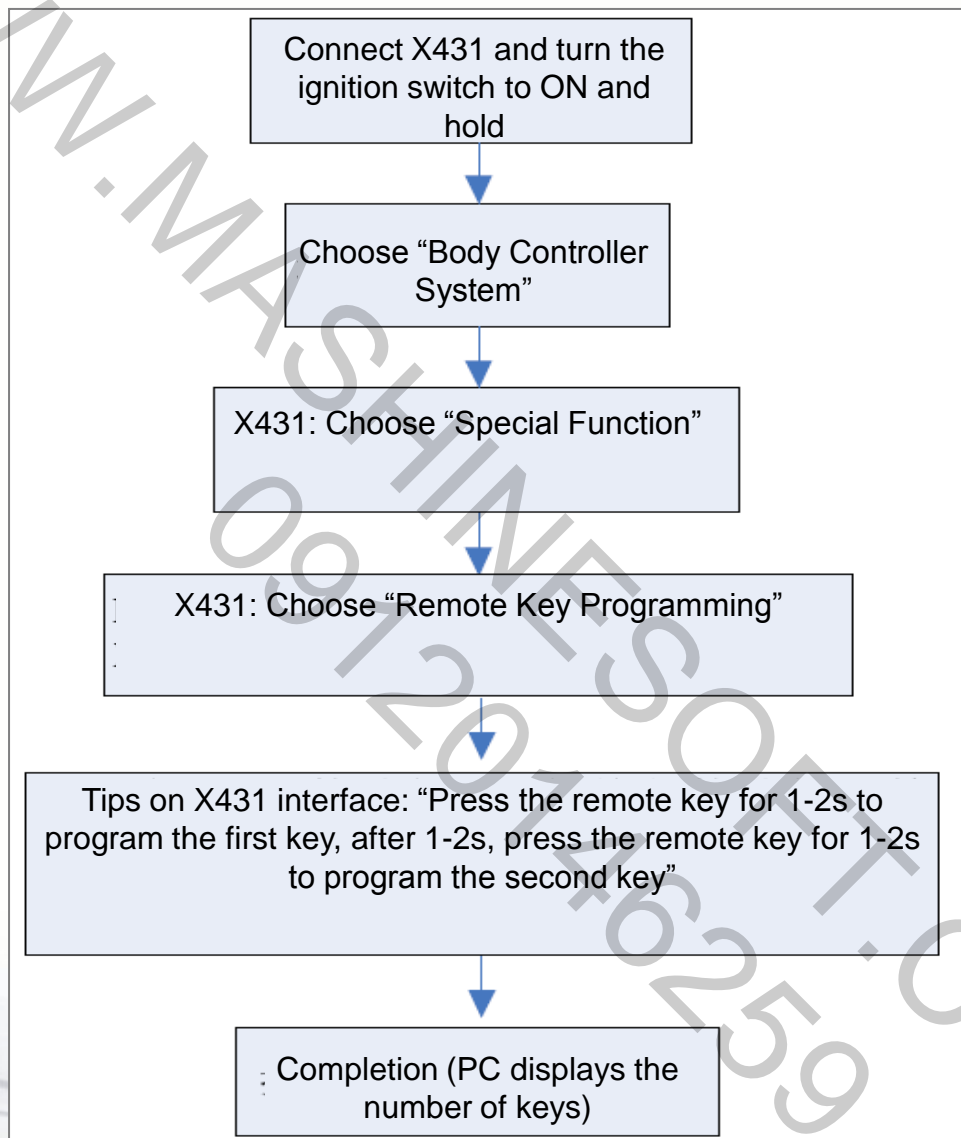
## ثبت کد پیکره بندی

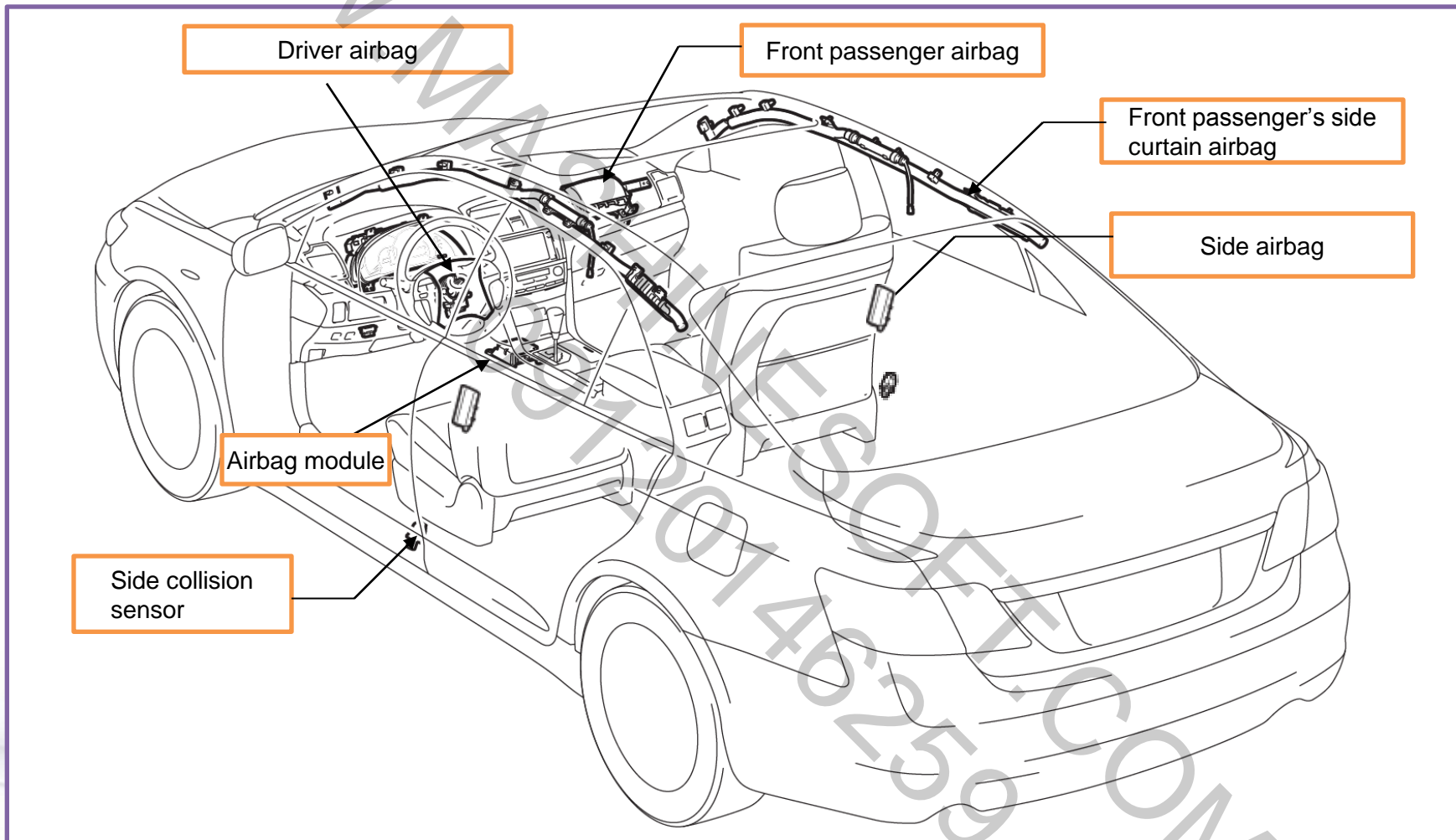
کد پیکره بندی متناسب با تیپ خودرو می بایست صحیح ثبت شود. در صورت تعویض پشت آمپر نسبت به ثبت کد پیکره بندی از طریق منوی Special operation اقدام نمایید.





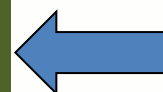








Collision, safety sensor  
(in the airbag  
controller)



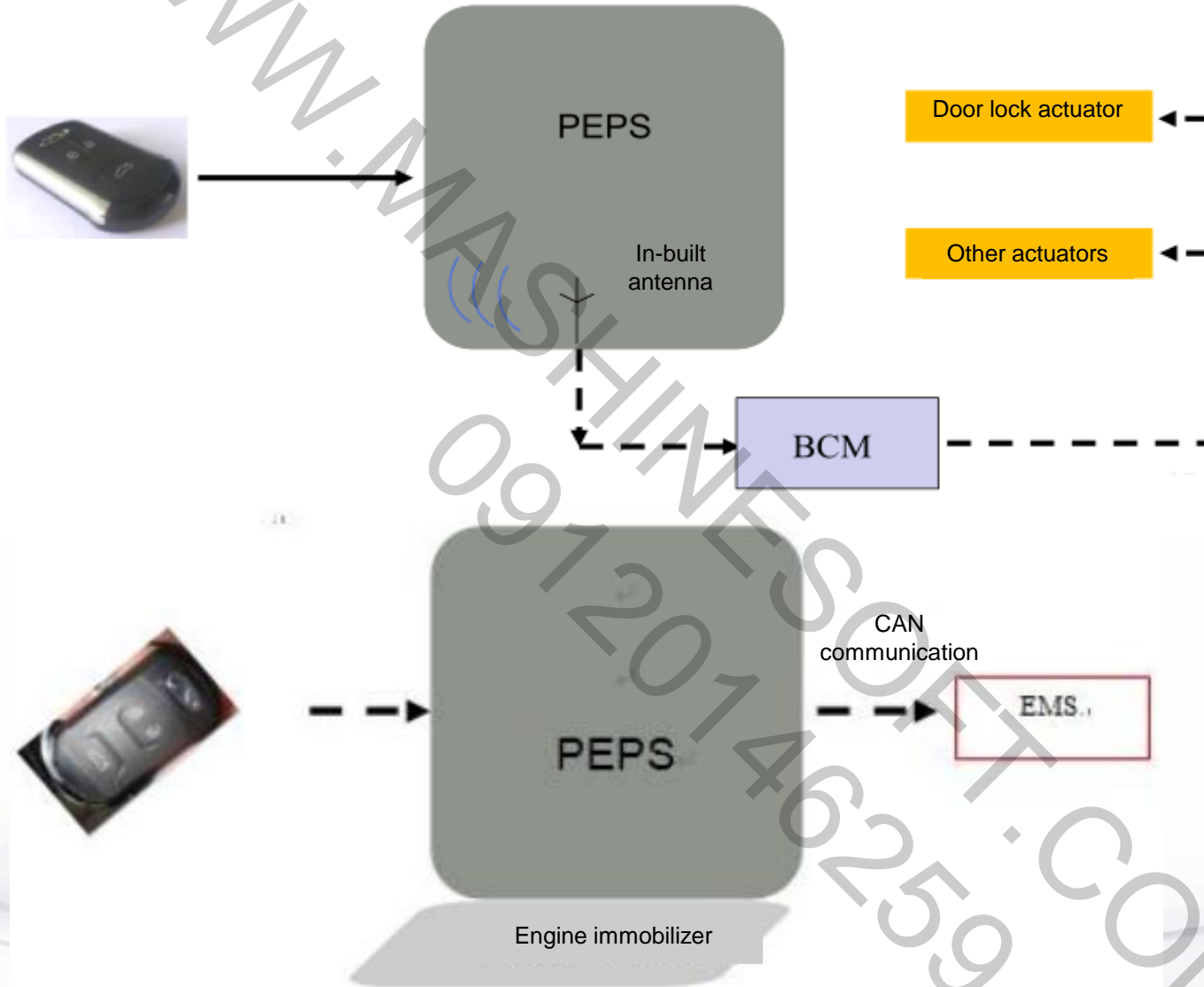
Arrow facing the  
forward direction



بدون پیش کشنده کمربند و ایربگ پرده ای



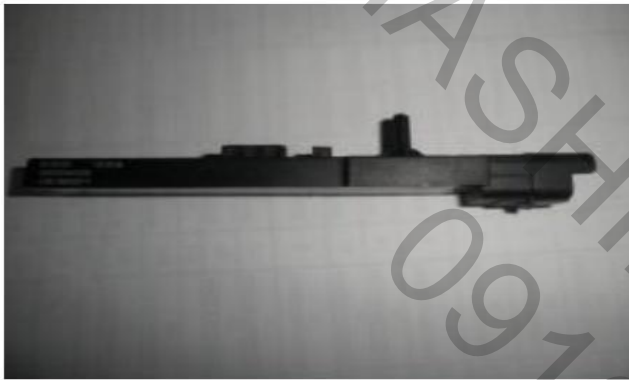
با پیش کشنده کمربند و ایربگ پرده ای





## Low-frequency Antenna

- Location
- Function: Detecting the presence of smart key, for authorization of one-button start



1# - 3# antenna (interior and rear bumper)



Door handle



Immobilizer antenna

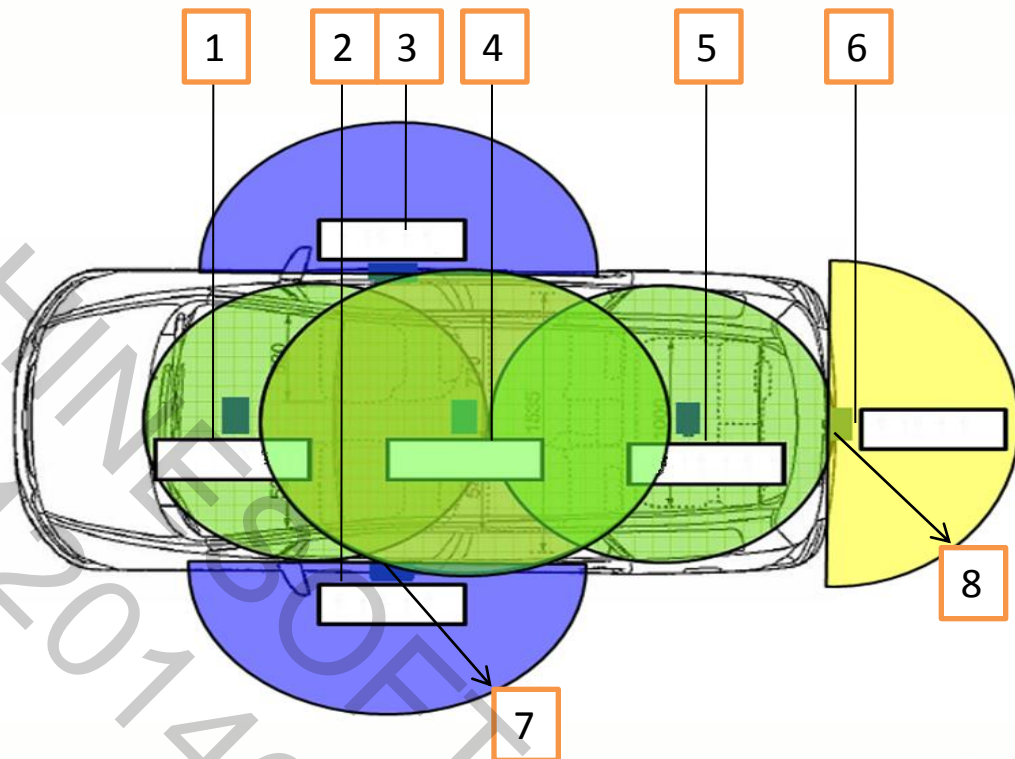


Door handle and antenna



## محدوده پوشش دهی :

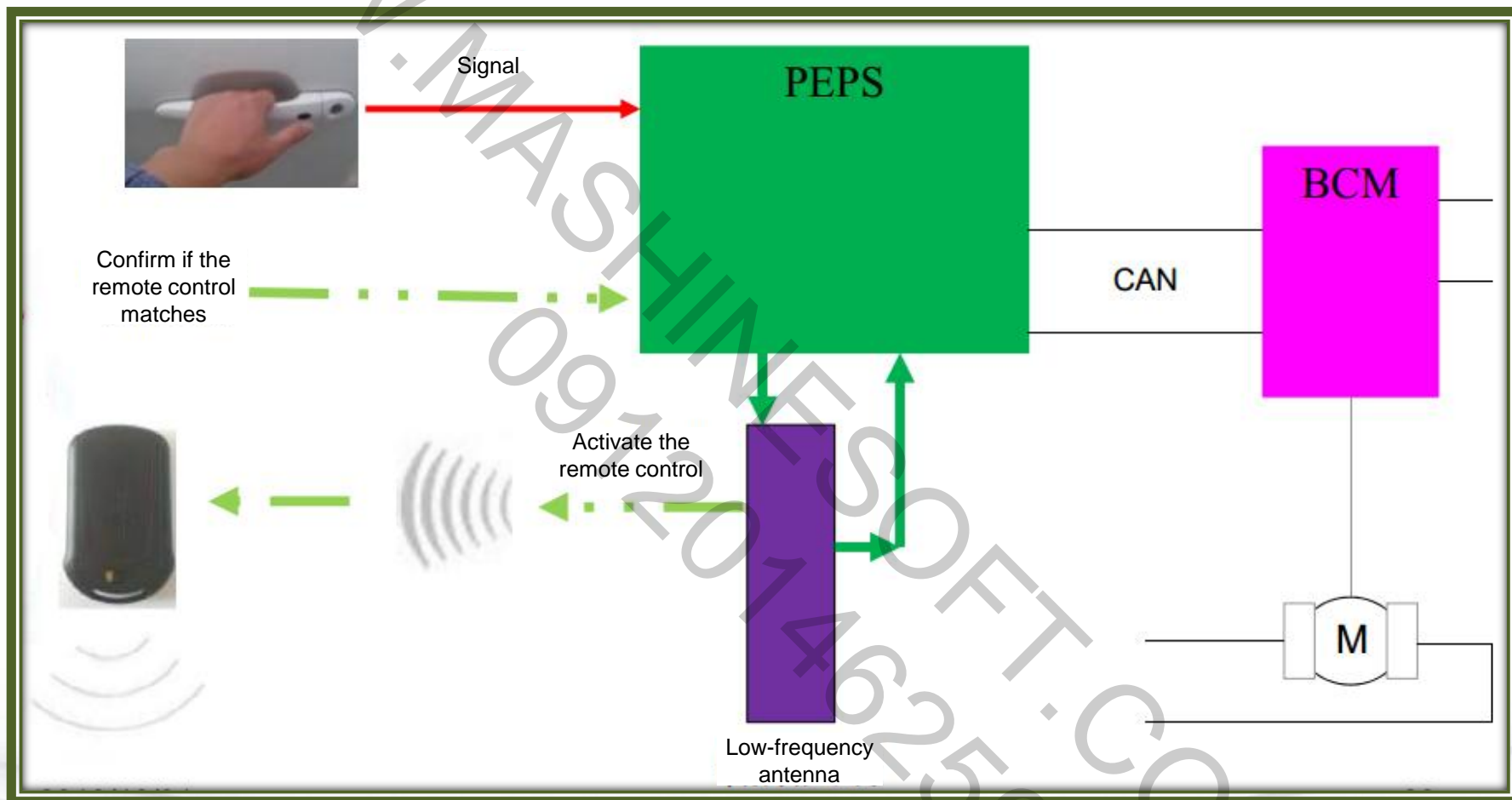
۱  
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۴  
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۶  
۷  
۸

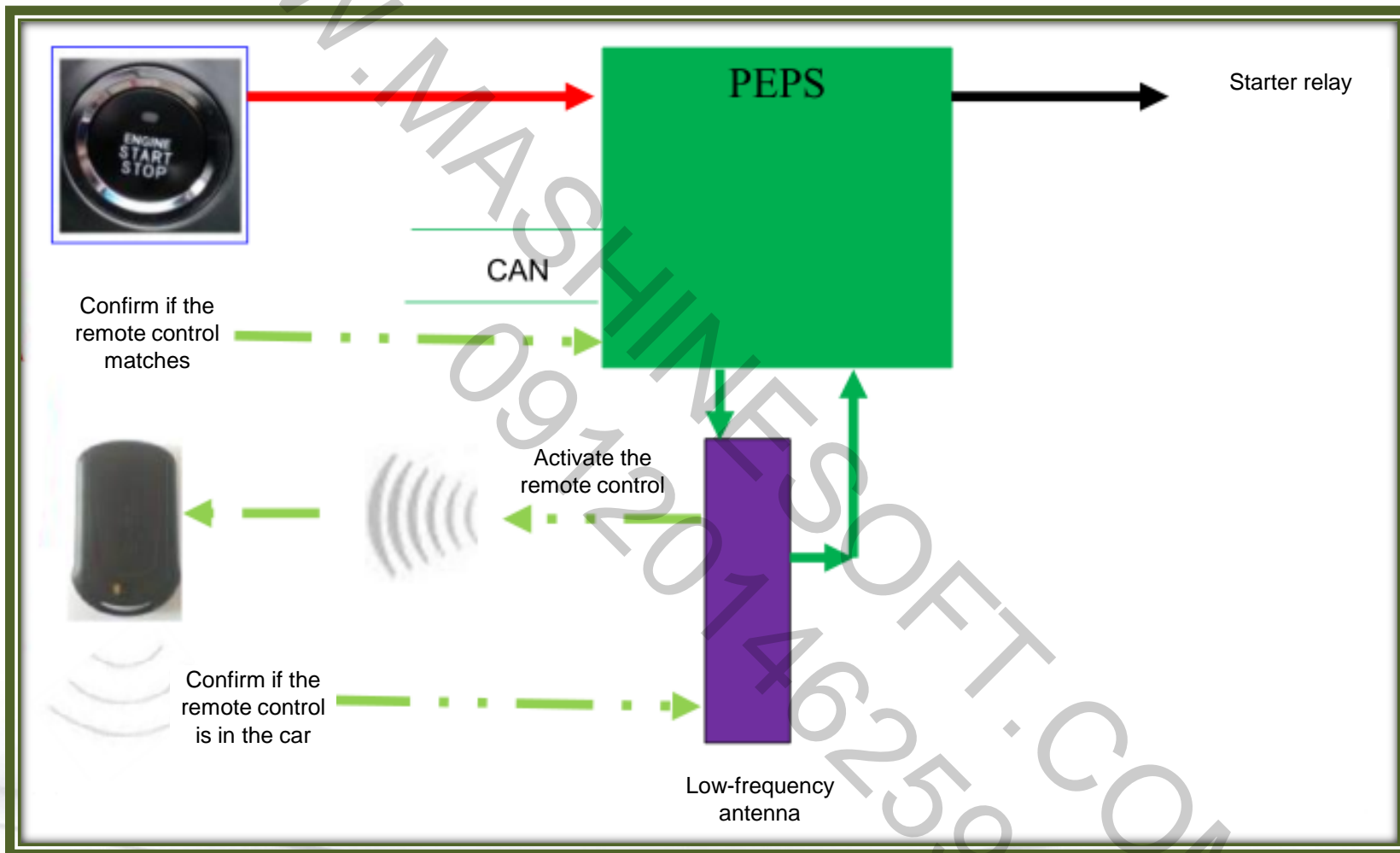


محدوده سبز رنگ :

محدوده آبی رنگ :

محدوده زرد رنگ :



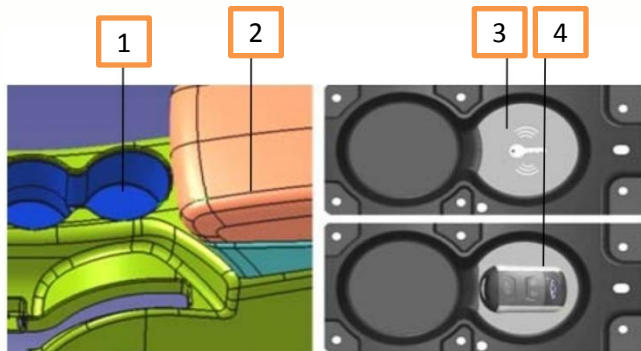


With Power OFF, place the key flat into the bottom of rear cup saucer, with the face up.

With the brake/clutch pedal not depressed, press the start button.

With Power ON, the instrument displays "Verification Successful, Start Allowed"

With the brake/clutch pedal depressed, press the start button

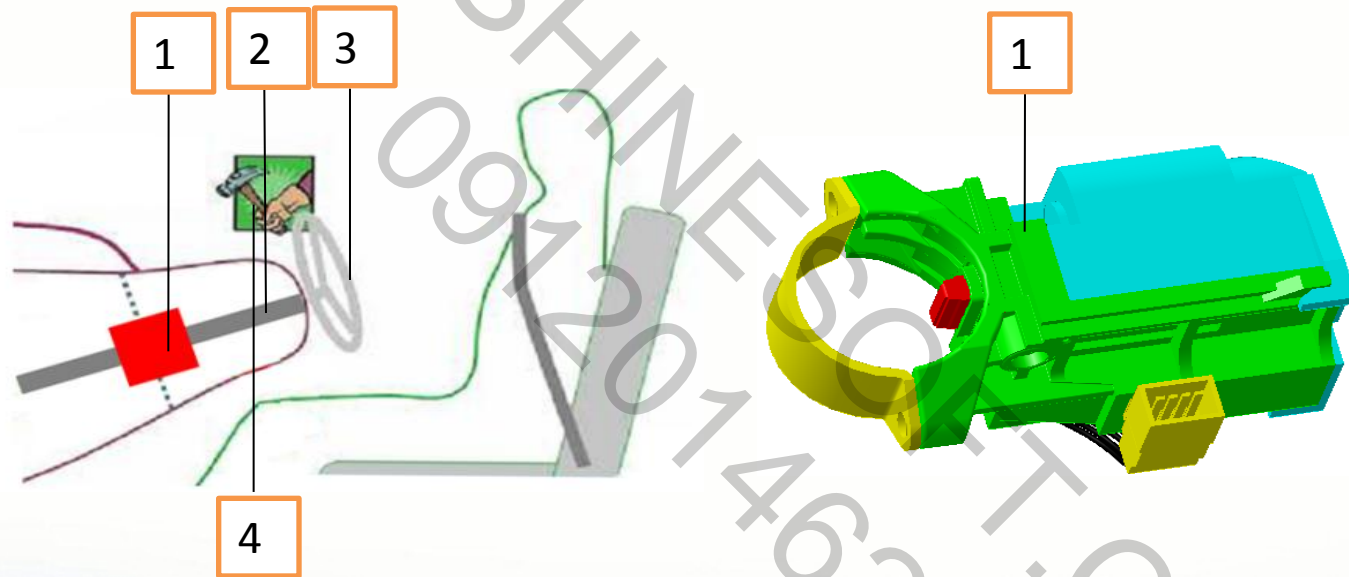


1. Cup saucer;
2. Armrest box;
3. Start key position icon;
4. Remote control.

Power to ST

Start

❖ این سیستم در خودروهای MT نصب شده و کاربرد دارد.



- 1. ESCL;
- 2. Steering column;
- 3. Steering wheel;
- 4. Prevent brutal use.

Read a VIN from EMS



Obtain the corresponding PIN from VIN



Place the key to be programmed on the key mark in the cup saucer.



Enter the immobilizer control system program of diagnosis tester



Choose "Add New Key" menu and enter a PIN



Diagnosis tester automatically executes the adding procedure



Read a VIN from EMS



Obtain the corresponding PIN from VIN



Enter the immobilizer control system program of diagnosis tester, and choose "Delete All Keys" menu



Place the key to be programmed on the key mark in the cup saucer.



Choose "Add Old Key" menu and enter a PIN



Diagnosis tester automatically executes the adding procedure

Read a VIN from EMS, and obtain the corresponding PIN from VIN



Install the new ESCL and keep the vehicle power OFF



Enter the immobilizer control system program of diagnosis tester and choose "Program ESCL" menu



Enter a PIN to let the diagnosis tester program ESCL



Turn off the ignition switch, open the front left door and listen if ESCL operates, now the steering wheel cannot be turned



Turn on the ignition switch and listen if ESCL operates, now the steering wheel can be turned

Read a VIN from EMS, and obtain the corresponding PIN from VIN



Install the new PEPS module and press ignition (IG) switch to power on the vehicle



Enter the immobilizer control system program of diagnosis tester and choose "Program IMMO" menu



Enter a PIN to let the diagnosis tester program IMMO



Complete programming of original keys one by one, as indicated in "Add Old Key"



For MT vehicles, choose "Erase ESCL", and then program ESCL after erasing procedure is completed for about 10 min.