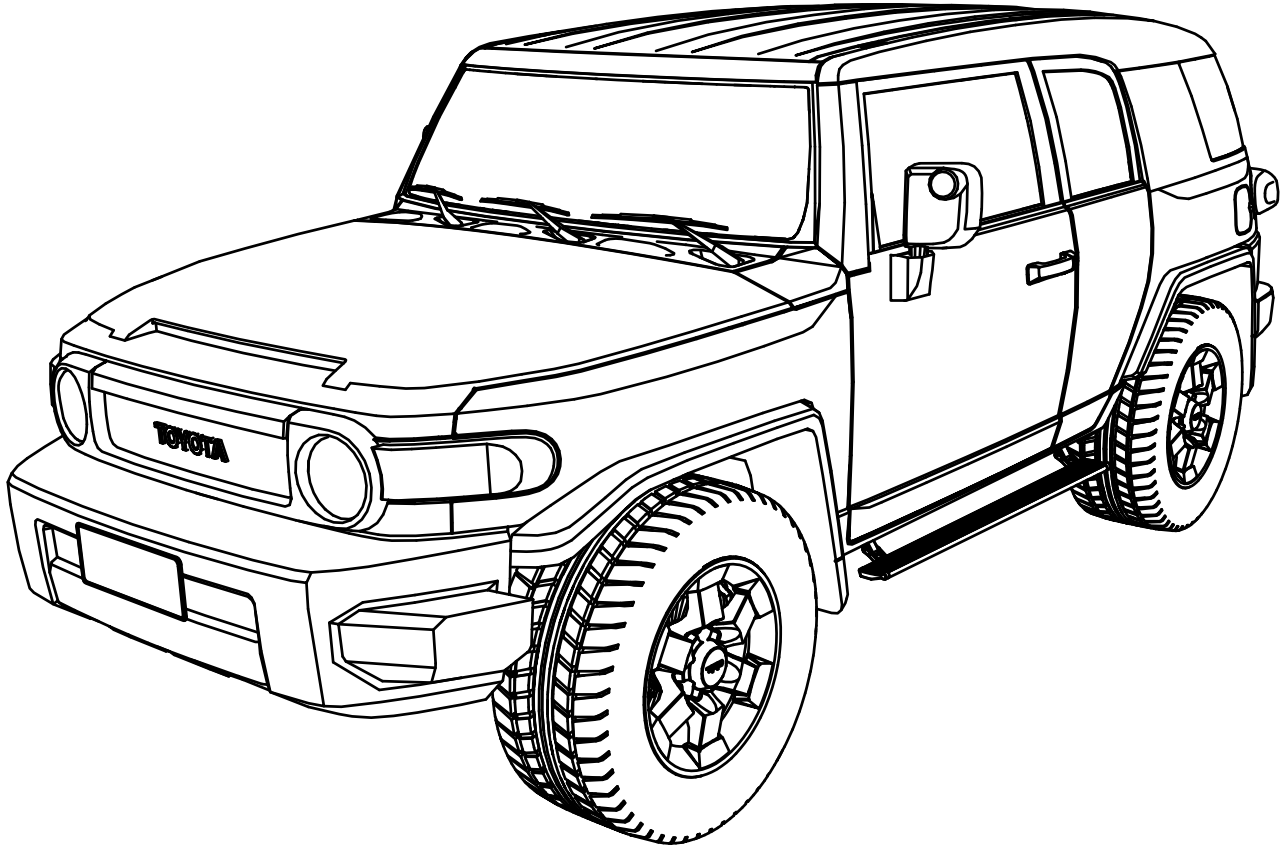
E-BOARD

TOYOTA FJ CRUISER POWER BOARD



INSTALLATION GUIDE

INSTALLATION TIME

3:00 hrs

SKILL LEVEL

① ② ③ ④

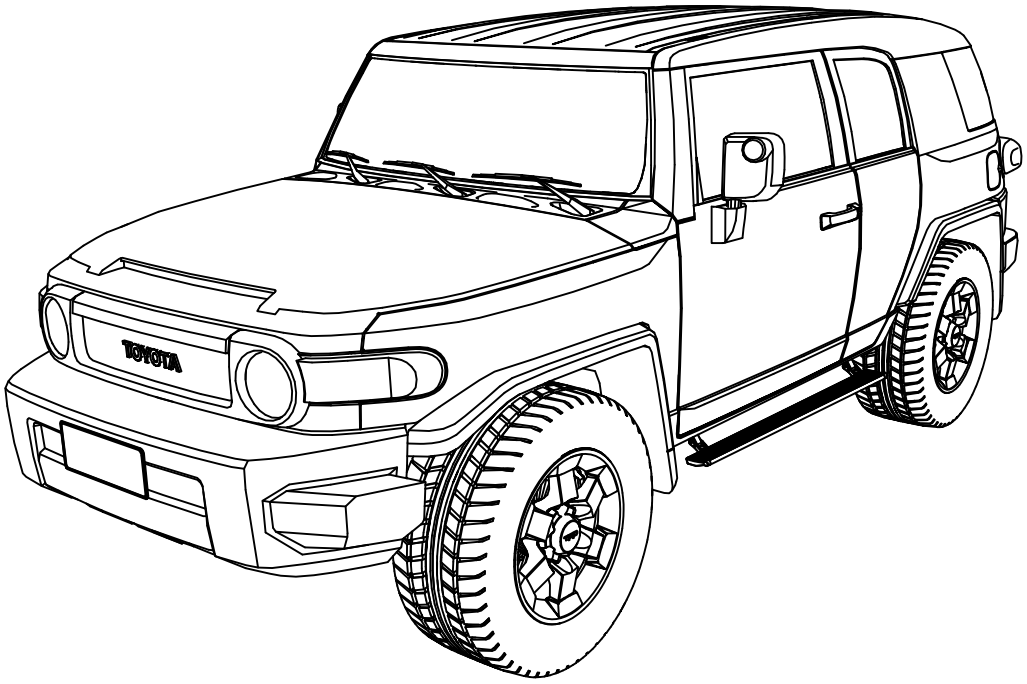
4=Experienced

APPLICATION: TOYOTA FJ CRUISER CE

PART: PST02-1310

TOOLS REQUIRED:

①5mm Hex Key Wrench (Allen Wrench)
②13mm Box Wrench
③Pry
④Wire Strippers
⑤Vinyl Tape
⑥Screw Driver



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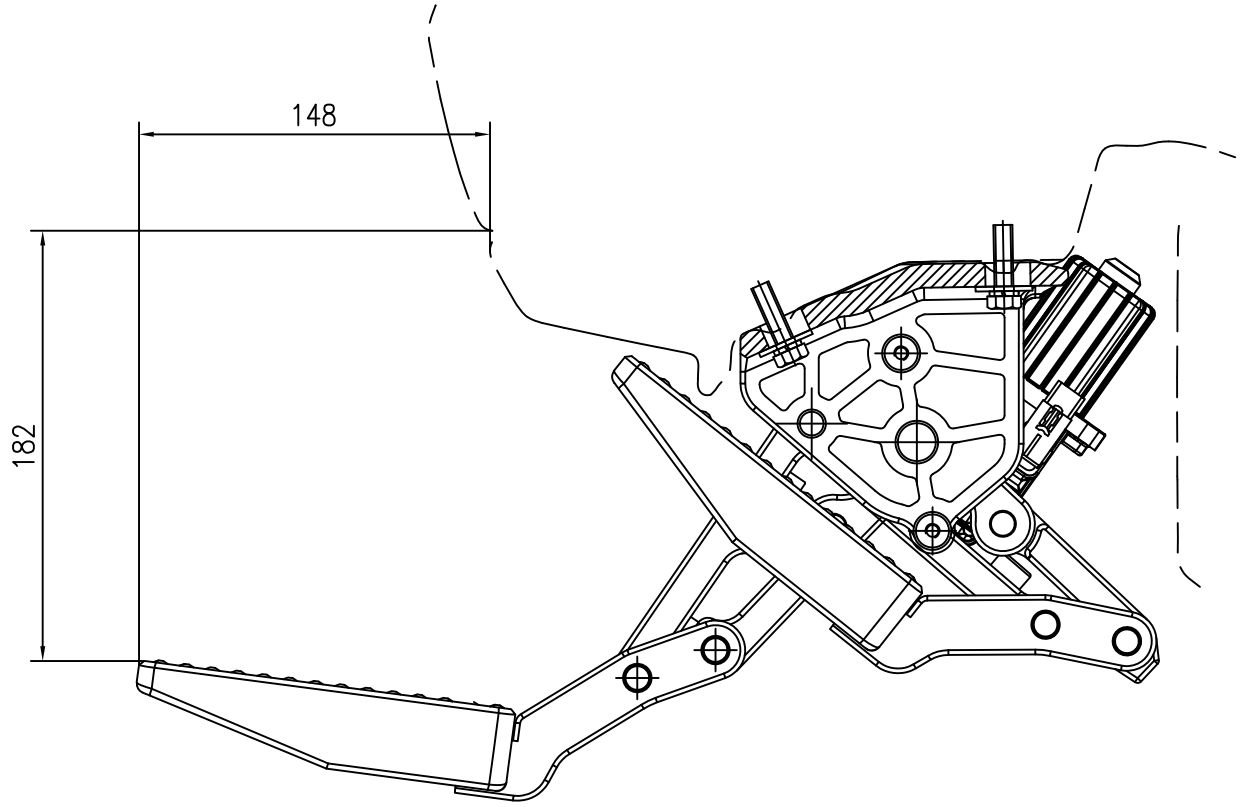
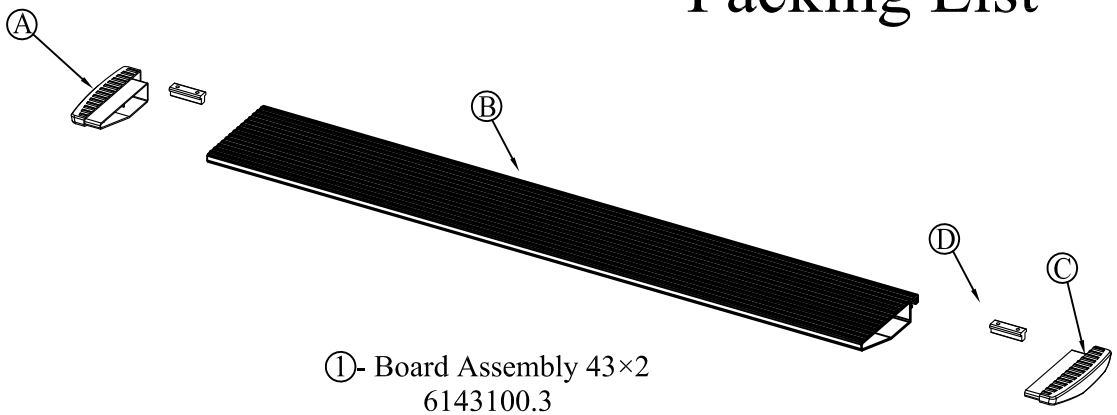
Technical Specifications



Rated voltage: 12V
Rated load: ≤300kg
Length: 1.56m
Gross weight: 23kg
Forward extension size: 148mm
(Horizontal distance between the edge of power board and the vehicle door when the board extends)
Board falling dimension: 182mm
(Vertical height difference between the edge of power board and the vehicle door while board extending.)
(Both dimensions of forward and falling are theoretical, which may vary due to uncertainties such as installation error, manufacturing errors of vehicle bottom and etc.)

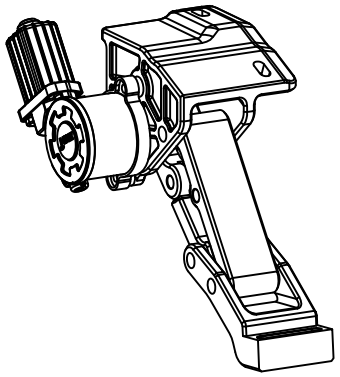
Note: Impact load is not allowed.
Please make sure the children and the aged will keep 20cm safe distance while power board is working to avoid any bumped or jammed.

Packing List

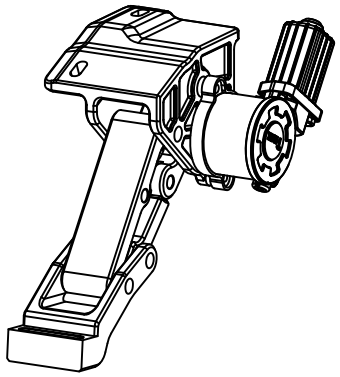


①- Board Assembly 43×2
6143100.3

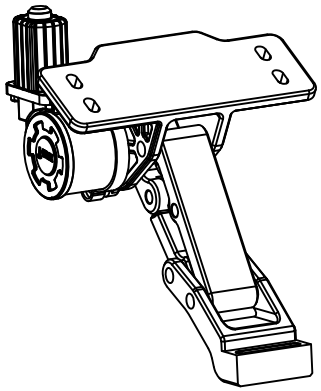
（A）6126100.3-4 End cap left B （×1）
（B）6143100.3-1 Board 43 （×1）
（C）6126100.3-1 End cap right B （×1）
（D）6126100.3-3 T-nut （×2）



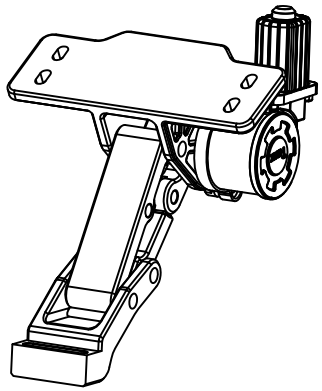
②-Front Motor Linkage Right 43R×1
6143100.1R



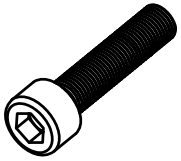
③-Front Motor Linkage Left 43L×1
6143100.1L



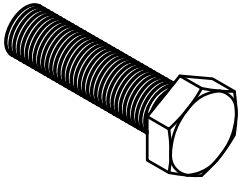
④-Rear Motor Linkage Left 43L×1
6143100.2L



⑤-Rear Motor Linkage Right 43R×1
6143100.2R

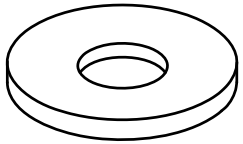


⑥-Socket Cap Bolt×8
GB/T70.1-2000 M6×20

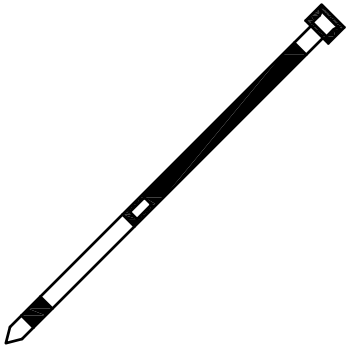


⑦- Hexagon Head Bolt×8
GB/T5783-2000 M8×30

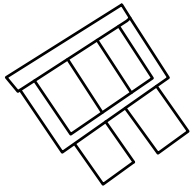
⑧-Spring Washer×8
GB/T93-1987 8



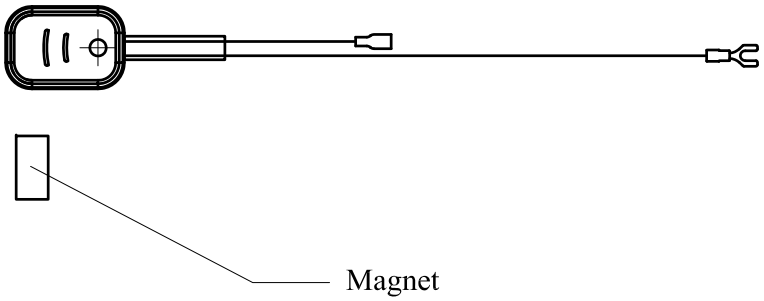
⑨-Flat Washer Grade A×8
GB/T96.1-2000 8



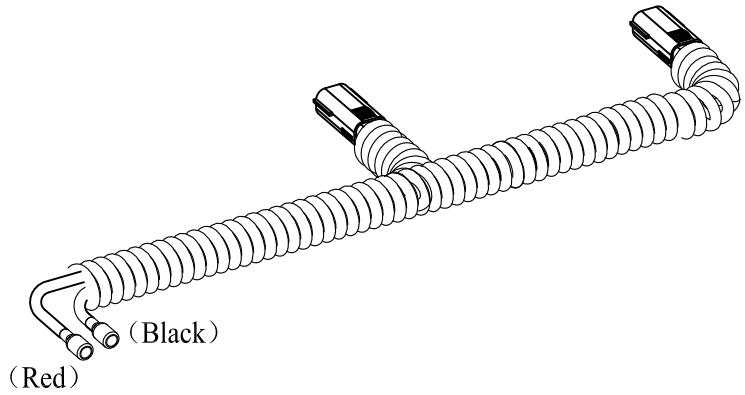
⑩-Cable Tie ×25
GB/T22344-2008 5×300



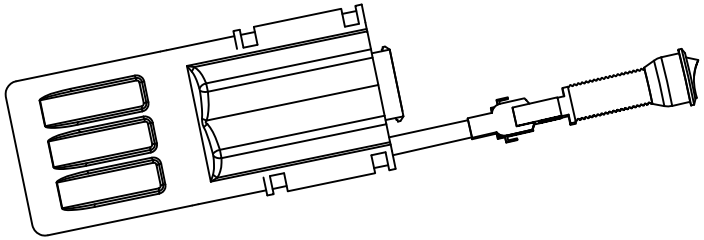
⑪- Fuse ×2



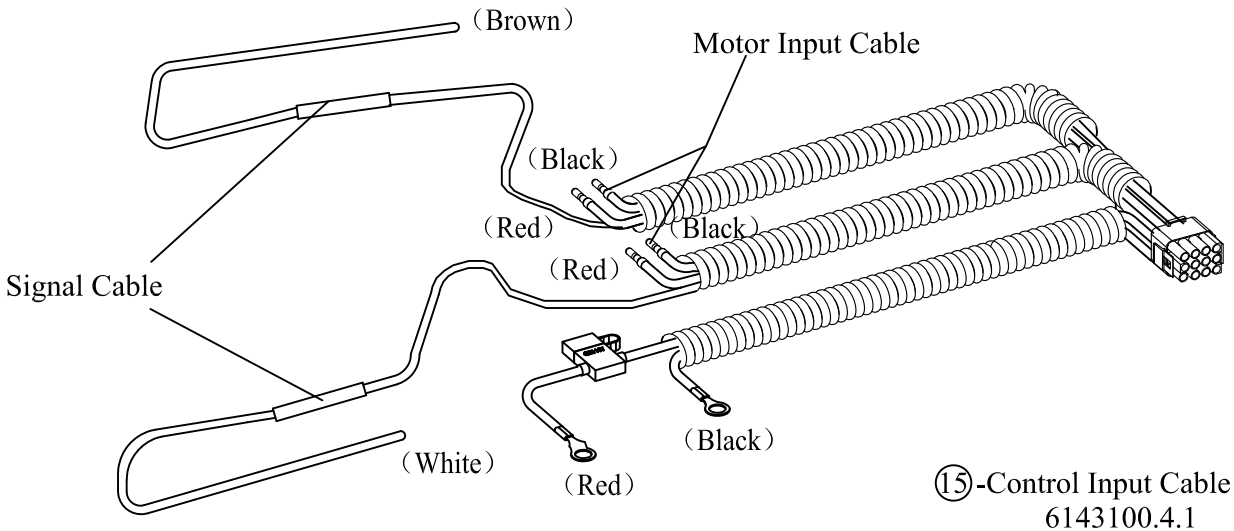
⑫-Magnetic Inductor ×2
Magnet×2



⑬-Motor Connection Cable 43×2
6143100.4.3



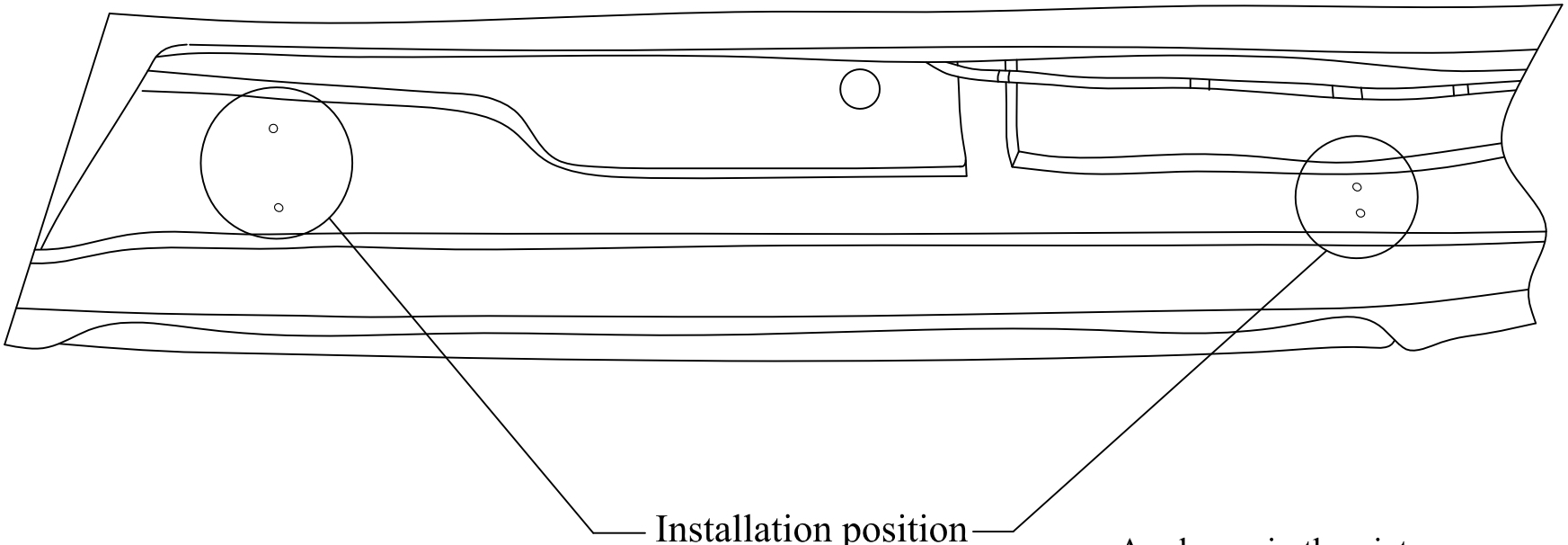
⑭- Controller Assembly 43×1
6143100.4.6



⑮-Control Input Cable 43×1
6143100.4.1

Mechanical Installation

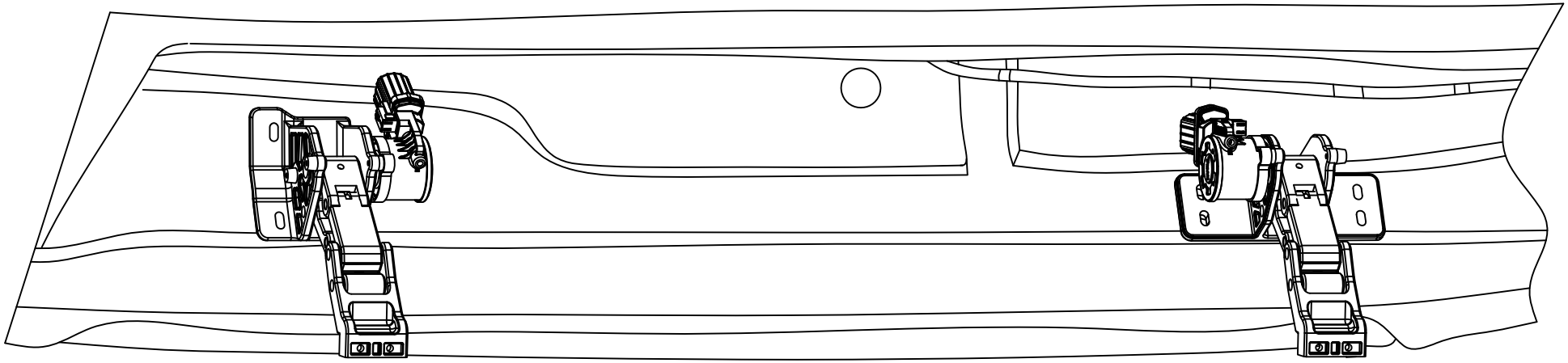
Front

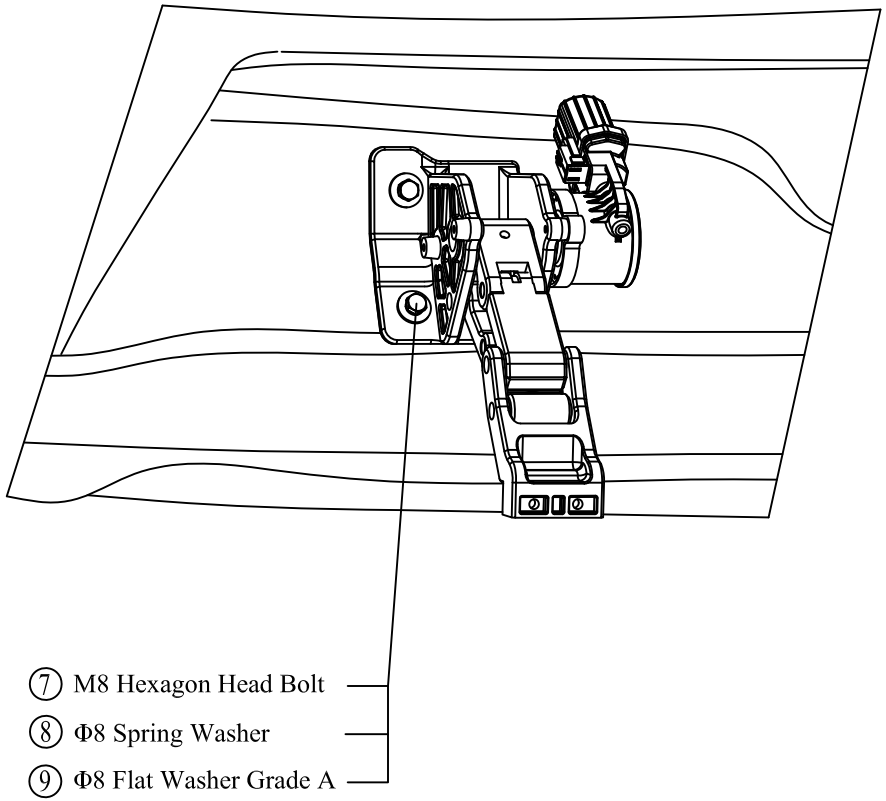


Installation position on the Right

As shown in the picture:
Threaded hole and threaded rod of both side are installation spots. Please ensure that the threaded hole and threaded rod are matched with the installation hole of motor linkage.

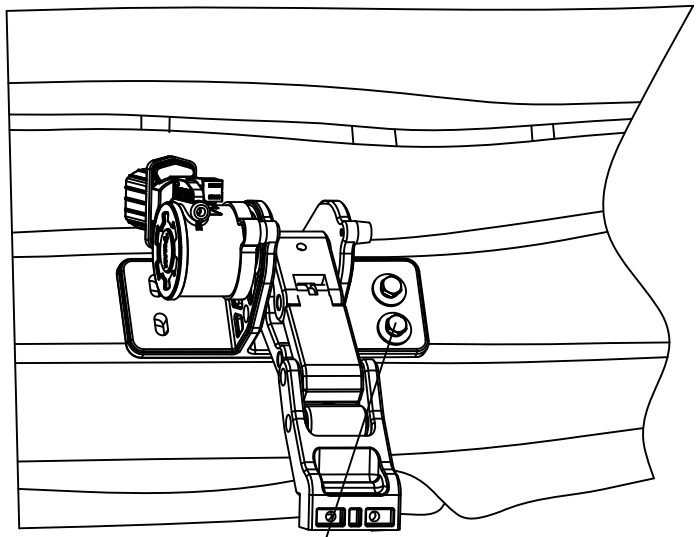
Front





Step 1: As shown in the picture, fixing the M8 hexagon head bolt (with spring washer and flat washer) into the corresponding installation hole and pre-tighten it. Tighten the above hexagon flange nut and make front motor linkage connect with vehicle body closely. (Tighten Torque 30Nm)

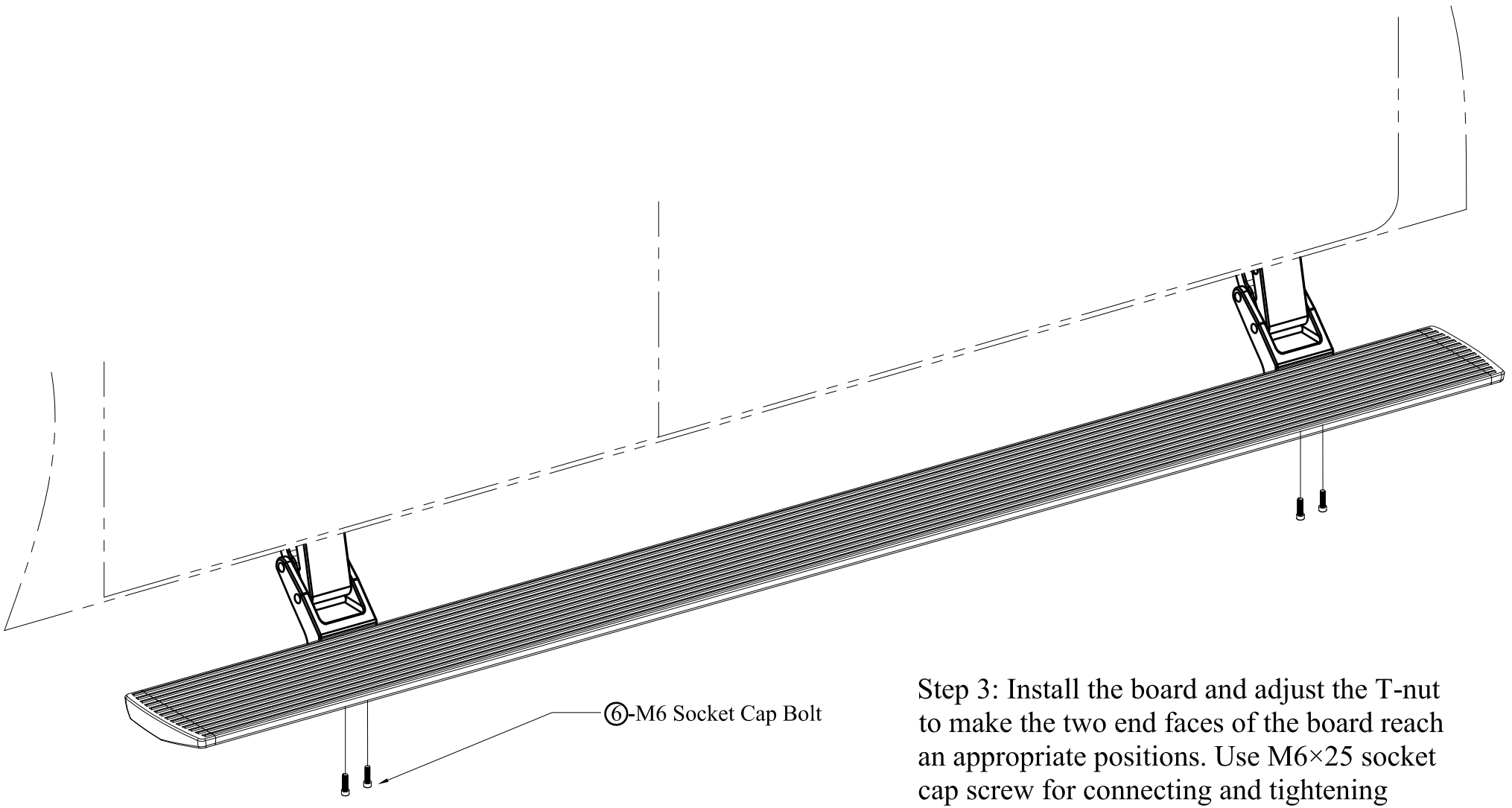
On the front right side



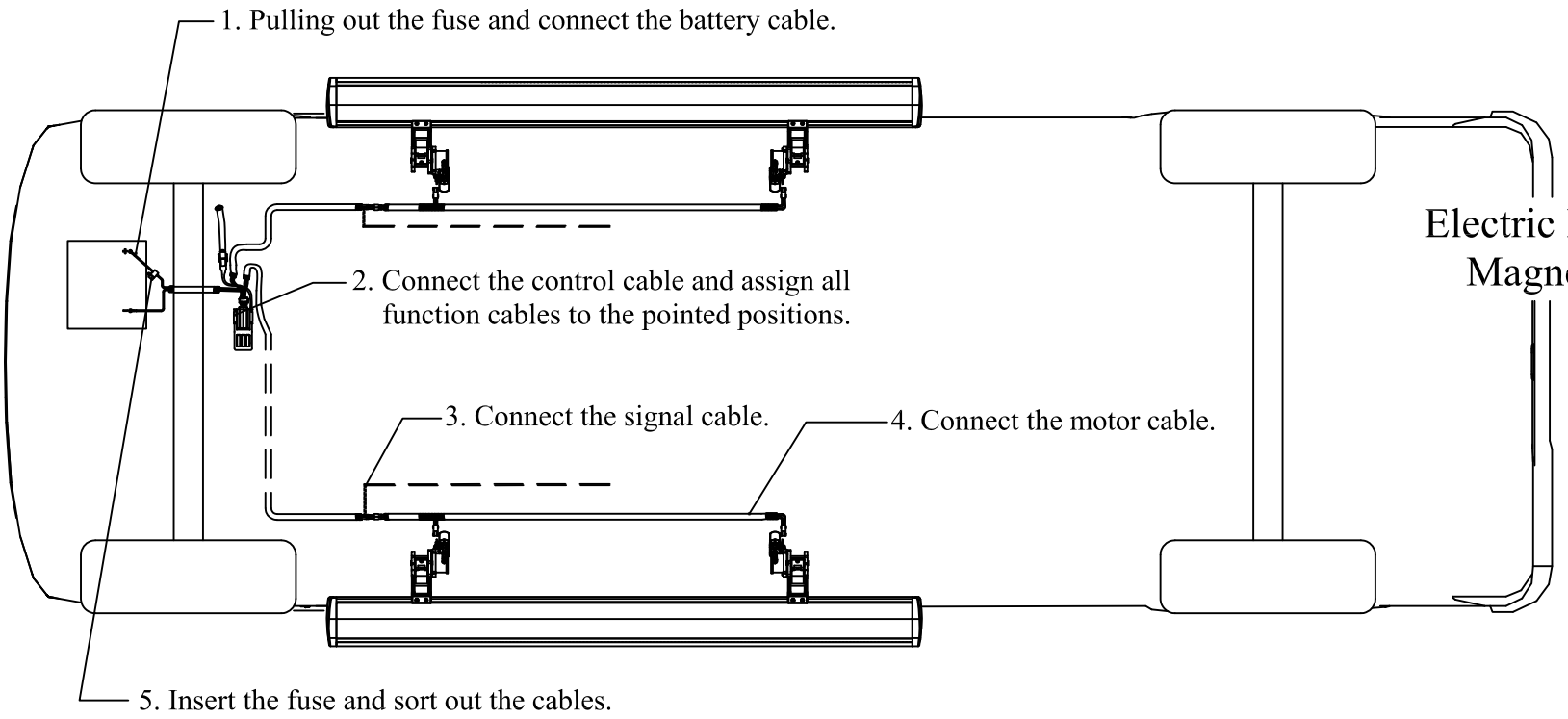
⑦ M8 Hexagon Head Bolt
⑧ Φ8 Spring Washer
⑨ Φ8 Flat Washer Grade A

Step 2: As shown in the picture, fixing the M8 hexagon head bolt (with spring washer and flat washer) into the corresponding installation hole and pre-tighten it. Tighten the above hexagon flange nut and make rear motor linkage connect with vehicle body closely. (Tighten Torque 30Nm)

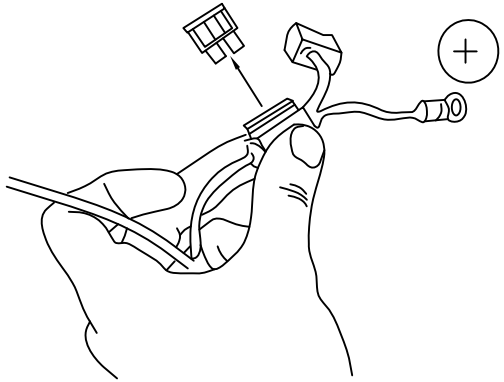
On the rear right side



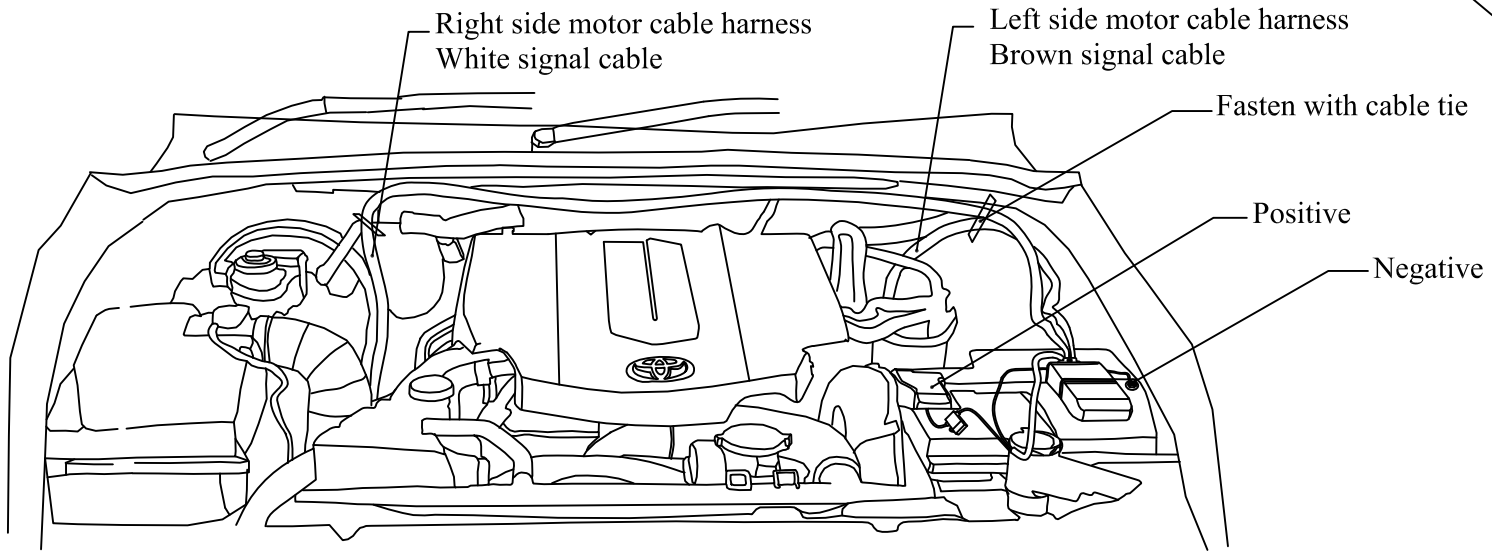
Step 3: Install the board and adjust the T-nut to make the two end faces of the board reach an appropriate positions. Use M6×25 socket cap screw for connecting and tightening (Tighten torque 12Nm).



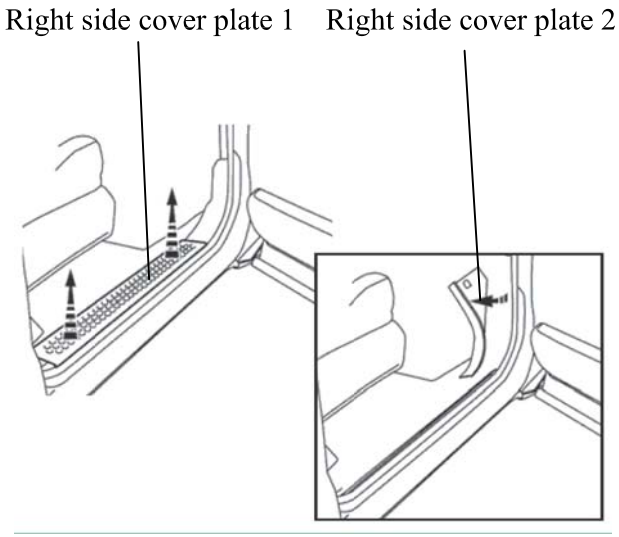
Electric Installation of Magnetic Control



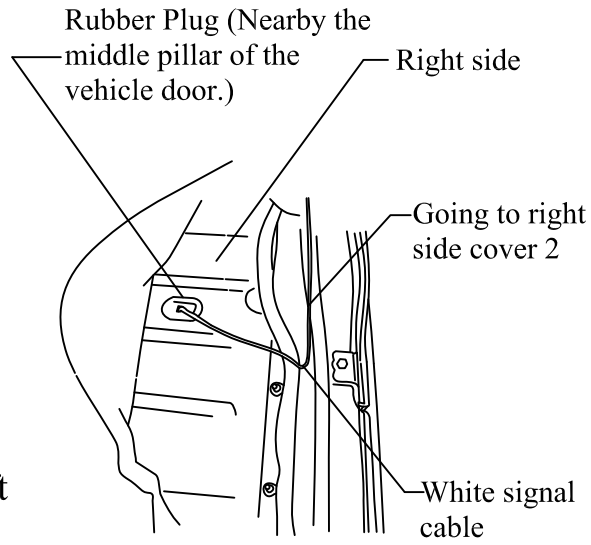
Step 4: Find the control input cable, pull out the fuse (ensuring the safety during installation) and connect the positive and negative to the vehicle battery.



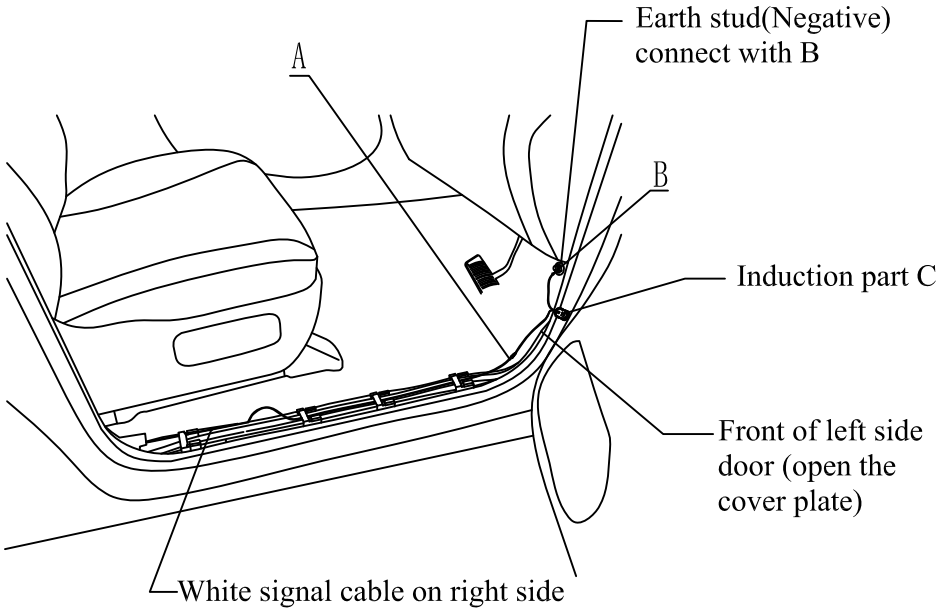
Step 5: As shown in the picture, fasten controller assembly by cable tie, and assign the cables according to the label. Cable harness pass through the vehicle floor to the vehicle bottom and inside, and fix the cable harness on the vehicle by cable tie.



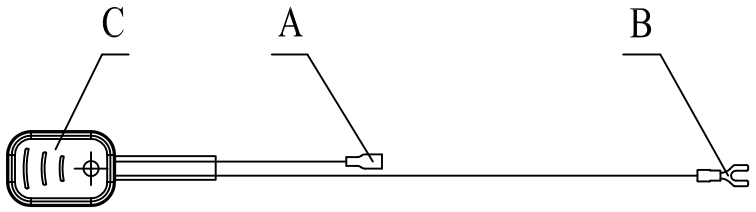
Step 6： Signal Cable Connection: Pry the cover of front, rear and middle pillar at right side, show as the left picture 1 & 2. Open the foot pad at right side, show as the right picture. The white signal cable pass through the right side rubber plug and get into the vehicle, (A hole should be drilled in advance on the rubber plug.) and the white signal cable pass through the right side cover 1 to the middle pillar at the right side. Open the corresponding cover plate at left side according to the installation of right side, and the brown signal cable pass through the left side rubber plug and get into the vehicle, and pass through the left side cover to the middle pillar at the left side.



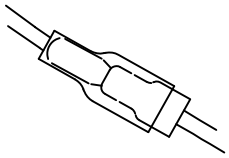
Introduction of magnetic inductor



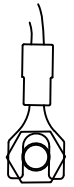
Step7：Open the cover plate of middle pillar of right side vehicle door, expose the above part (as shown above), connect the white signal cable to terminal A, loosen the earth stud of middle pillar of vehicle (ensure there is no oil paint interface of stud and pillar), connect terminal B to the earth stud, and then tighten the earth stud. Stick the induction part C to the both side of pillar (shown above picture), stick the magnet on the inside of vehicle door which is corresponding with induction part. The connection of left side brown signal cable and cable harness induction are same as the installation of the right side.



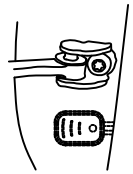
Cable harness induction



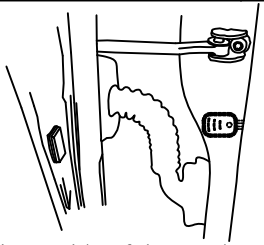
Insert the door signal cable into A



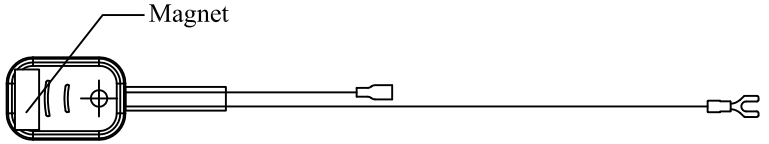
Tighten the nut connecting B and ground terminal of door pillars



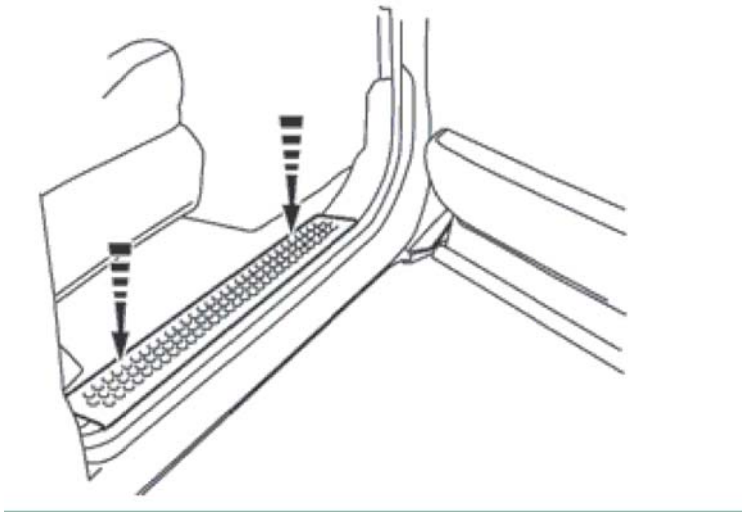
Remove the adhesive tape at the back of C, and stick one end on one side of the door pillars.



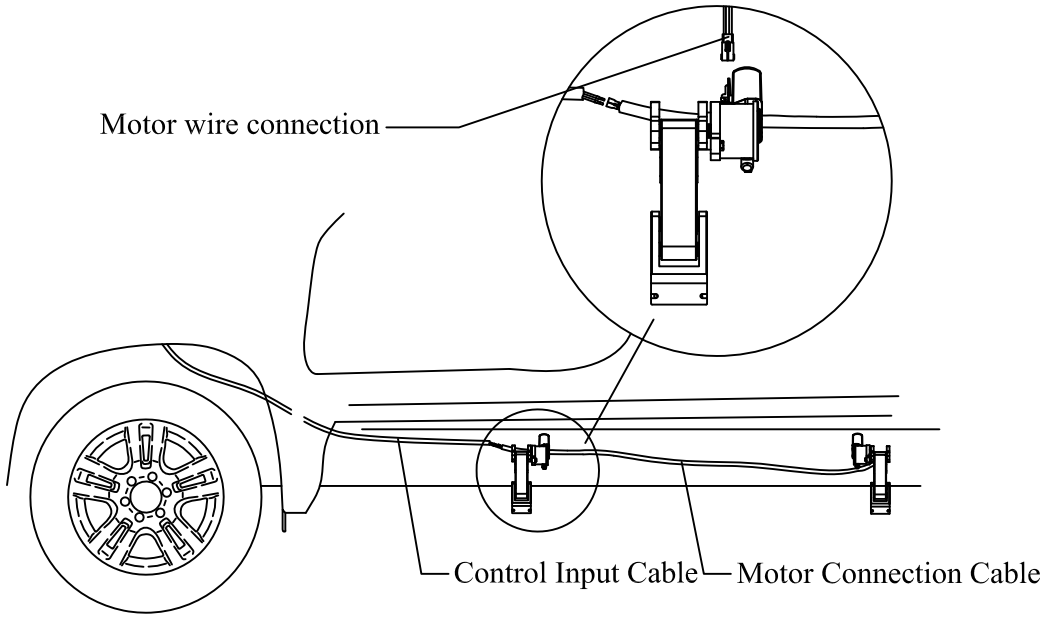
Stick the magnets to the inner side of the car door and keep their positions corresponding to C



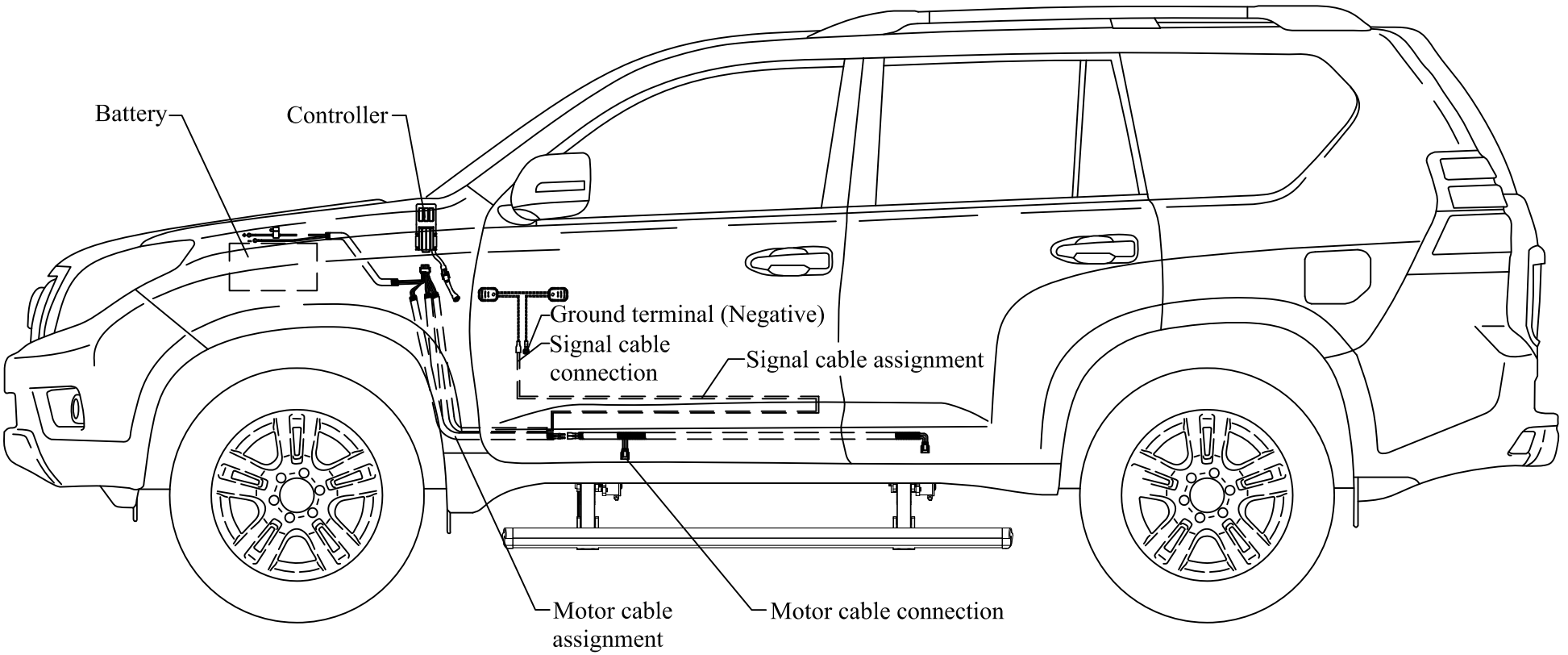
Instruction：The magnet position after closing the door is shown as above picture.



Step 8: Assign the cables in order and close the cover plate.



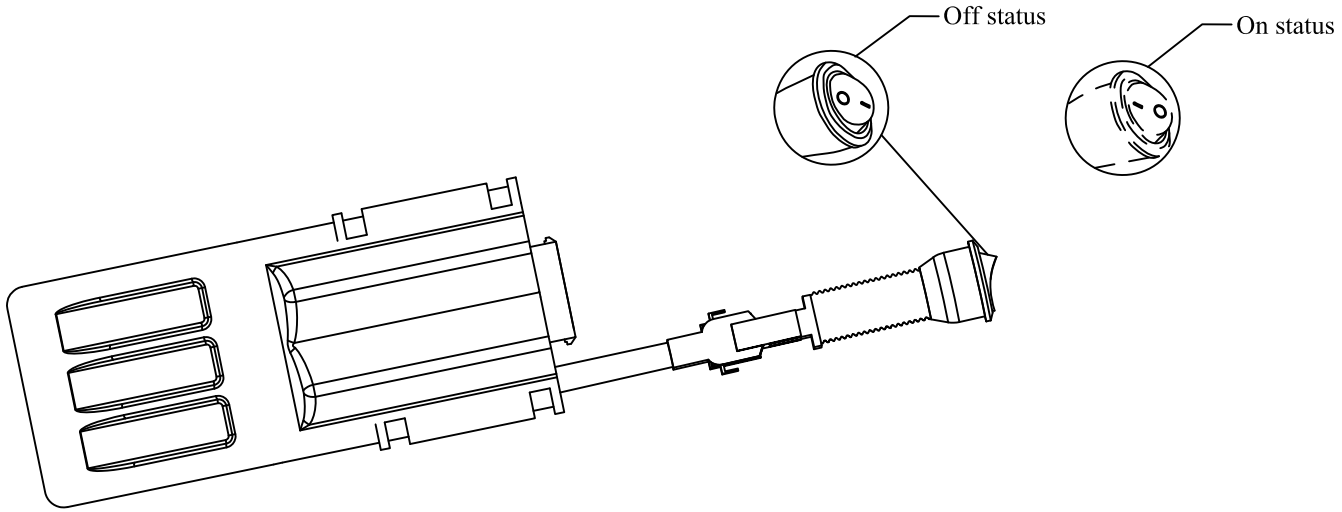
Step 9: Motor cable connection, connect the motor connection cable and control input cable, and assign the cable along with the vehicle beam. Note that the same color cable should be connected together. Fasten the cable on the vehicle beam by cable tie. Same cable installation is for the other side.



Step 10: Insert back the fuse, assign the cable in order. Check if all the cables are connected well and test if the power board can work normally. If it can work normally, the board installation is completed. (If it cannot work normally, please check the installation of each part.)

Summary of electric part

Instructions of Emergency Switch



I. Function of emergency switch

Press the red switch button in case of any emergency or product failure to protect vehicle will not damage under these condition. Both boards will go back automatically while the emergency switch button is turned on.

II. The condition for using emergency switch:

1. Product failure;
2. User needs power board not work while the road / off-road situation is tough.
3. Please do not use power board if motor linkage or control wire is damaged.

III. Emergency switch using method:

1. Press emergency switch button, and the emergency switch is "on". And at the same time, the power board will automatically go back and stop working. In case of product failure, please contact with after-sales service.
2. Press the emergency switch button again, and the emergency switch is "off". And at the same time, the power board will return to its normal working status.
3. The original status of emergency switch is "off".

Maintenance		
3 months Periodical Inspection	Inspect the normal operation of the mechanism	
	Inspect damage for each joint of the control cable and the bare part outside of the girder	
	Inspect screws looseness of motor and power board	
Special Case Inspection	Clean sediment on time for power board and its components	
	Clean ice on time for power board and its components	
Maintenance card		
The board couldn't activate when doors open and close	Electrical Malfunction	Fault of wiring the battery
		Fault of wiring door signal
		Fault of controller
		Fault of motor wiring
		Fault of motor
		Inspect the wiring according to the wiring layout when the door control signal failure occurs
	Mechanics Malfunction	An object is block the board
		Boards are not mounting symmetrical

Note:In the use process, you may meet some other unknown trouble. Please contact us timely to feedback the problems, we will solve it for you as soon as possible. Thank you!

T-MAX Product Warranty Instructions

Thank you very much for using our product!

I Maintenance Instruction

1、During warranty period, T-MAX provides free maintenance for any malfunction related to the manufacturer. 2 years warranty after sale. For individual related faults, T-MAX provides paid maintenance.

2、T-MAX promises to provide lifetime maintenance and only charges for necessary material and labor. The charging standard refers to the ATM fee scale of local T-MAX terminal service provider.

3、For all replaced parts, T-MAX ensures to provide maintenance within 12 months after the replacement.

4、The ownership of the old parts from the replacement belongs to T-MAX（Hangzhou） Technology Co., Ltd.

5、Within the limit of law, the interpretation of warranty policy belongs to T-MAX（Hangzhou）Technology Co., Ltd.

II Situations below will not offer free warranty:

1、No warranty certificate ;

2、Fault caused by customer's misusing or Incorrect installation ;

3、Fault caused by none professional maintenance staff's disassembly ;

4、Fault caused by force majeure ;

5、Fault, scratch and torn due to movement or falling ;

6、Fault caused by improper maintenance or misusing .

III、Precautions：

1、In the case of extreme off-road， electric pedal is not recommended to avoid the damage of the pedal;

2、After extreme off-road， start maintenance for electric pedal to protect the performance and the longevity of the pedal;

3、Electrical parts: Check the control lines in T-MAX Terminal Services branch regularly;

4、Mechanical parts: Pedal and pedal components should be cleaned up promptly when sediment appears;

5、Power board should be using frequently. The idle time should not exceed three months;

6、Power board need maintenance regularly in T-MAX terminal service branch;

7、Forbidding high temperature when using the power board;
8、The heads of both sides of the single pedal are made of plastic. They are pedal's exterior decorating parts. Do not board;
9、Do not put thick mats or other debris on power board to avoid the danger of wrong strpping on the pedal;
10、After initial installation, please pay attention to check for looseness. Tighten screws if necessary. Usually after 3-5 times retractable rear door switch pedal in place, the power board could be fixed finally and checked regularly .
11、How to exclude unexpected failures of power board?
The board couldn't activate when doors open and close
① Electrical fault: the connection point and line failure, the gate control trigger line failure, controller failure, the electrical motor cable failure, motor failure; send to local T-MAX Terminal Services branch to detect and repair.
② Mechanical faults: a foreign object obstruction pedal movement, the installation of two pedal mounting surfaces is not at the same level; send to local T-MAX Terminal Services branch to detect and repair. Pedal when the door is reflected insensitively.
Gate control signal is error. Send to local T-MAX Terminal Services branch to check the wiring according to the control wiring diagram.

Warranty card

Product Type		User name	
Product Name		Tel	
Factory number		Address	
Date of purchase			
Shop of purchase			

Maintenance records

Date	Fault Descriptions	Fault Reasons	Result	Note

Produced by

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