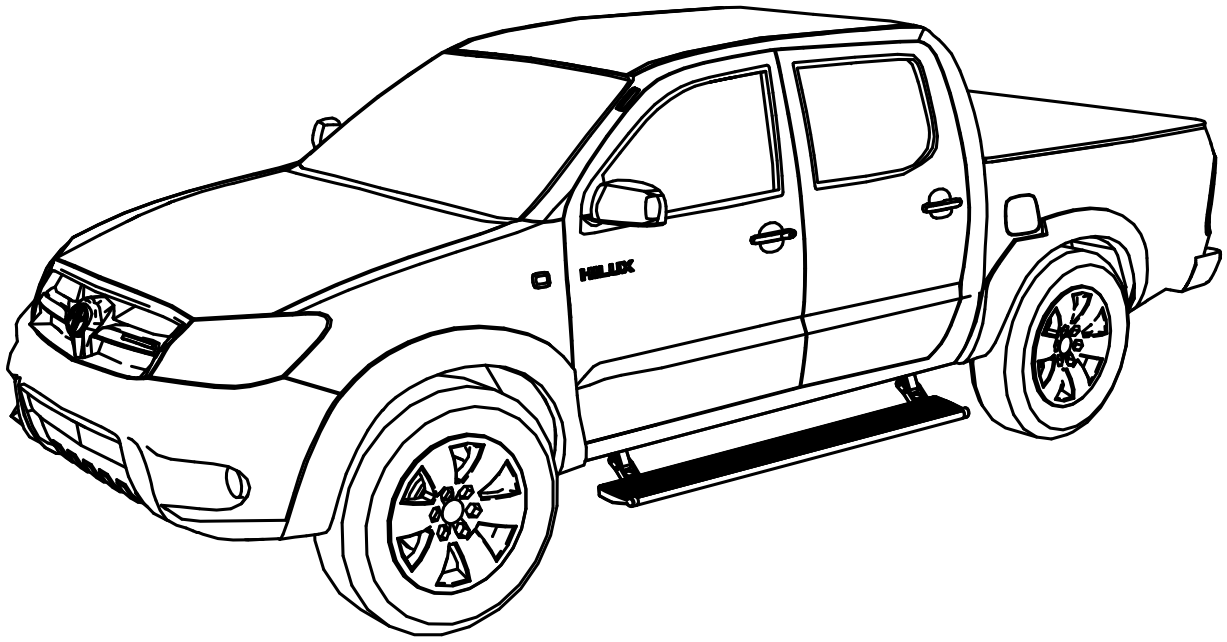
E-BOARD

TOYOTA HILUX VIGO POWER BOARD



APPLICATION: HILUX VIGO 2015 CE

INSTALLATION GUIDE

INSTALLATION TIME

3:00 hrs

SKILL LEVEL

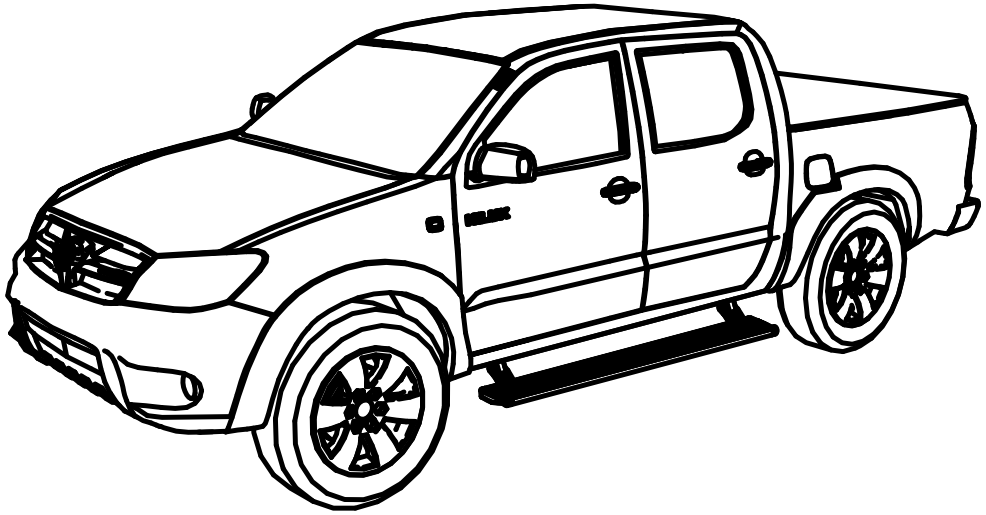
① ② ③ ④

4=Experienced

PART: PST05-1310

TOOLS REQUIRED:

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



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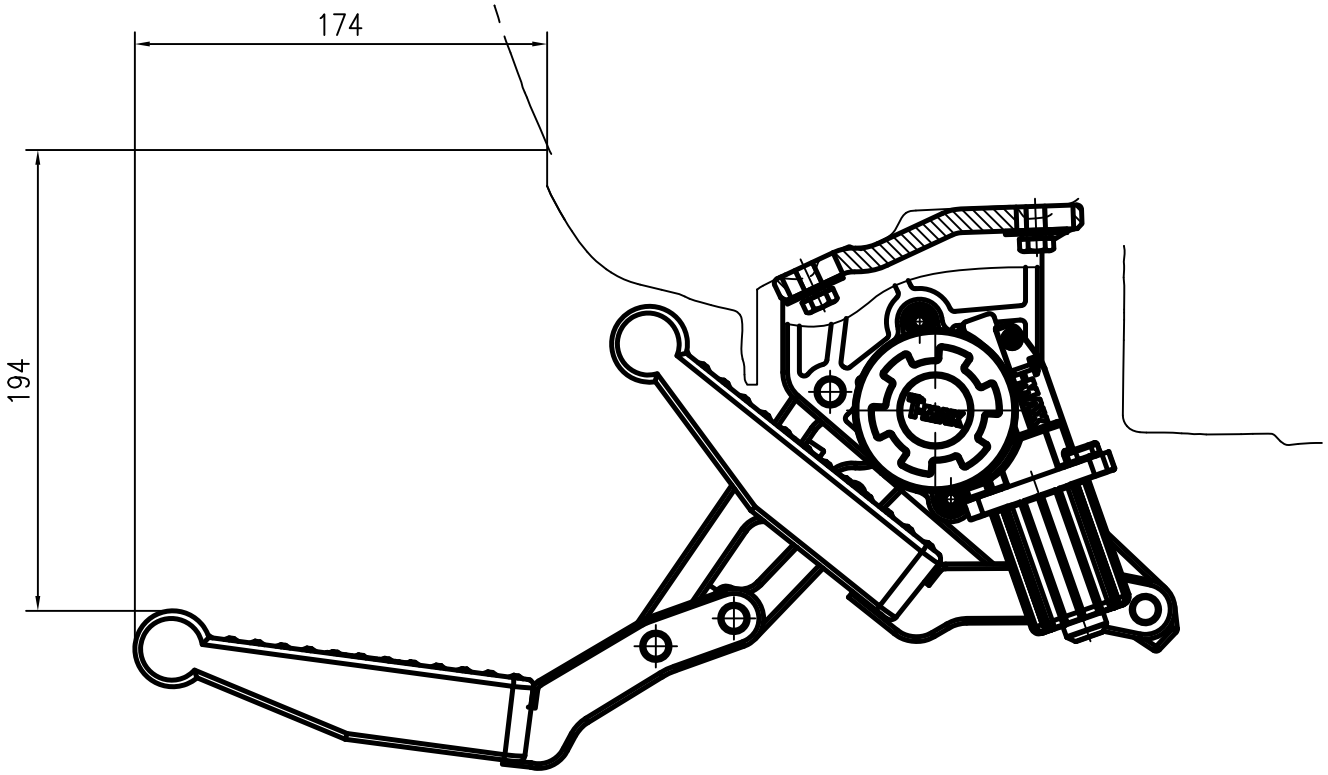
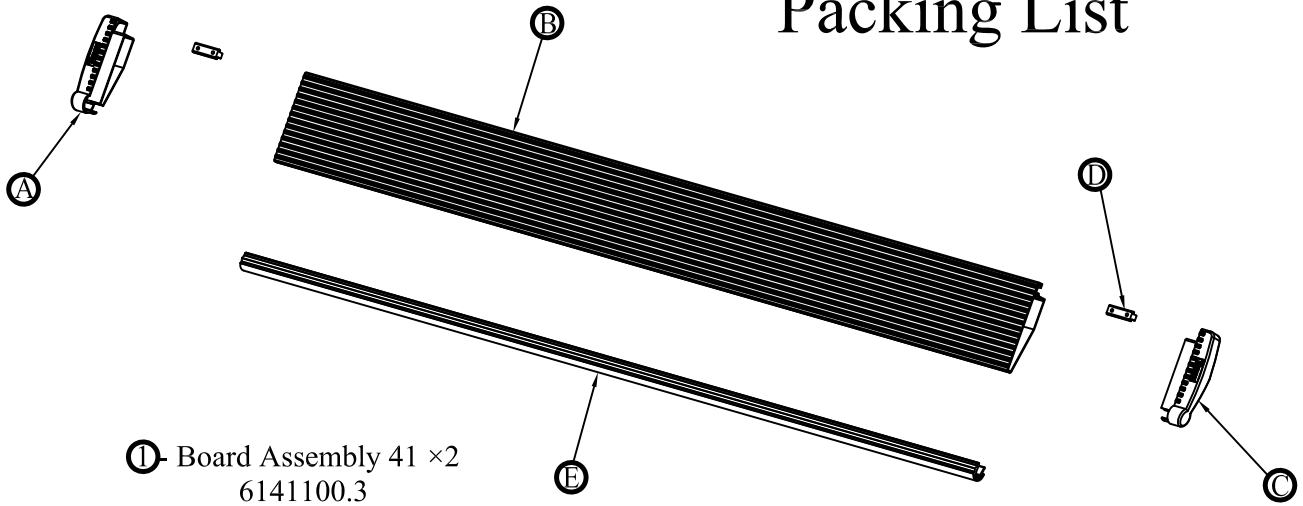
Technical Specifications



Rated voltage: 12V
Rated load: ≤300kg
Length: 1.63m
Gross weight: 26.5kg
Forward extension size: 174mm
(Horizontal distance between the edge of power board and the vehicle door when the board extends)
Board falling dimension: 194mm
(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.)

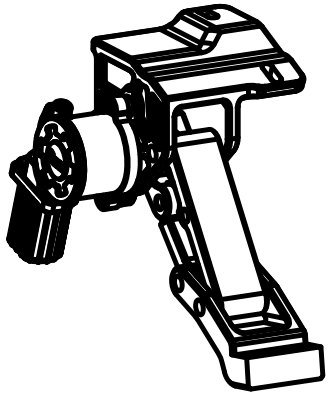
Note: Impact load is not allowed.
Please make sure the children and the aged will keep 20cm safe distance while power board is working to avoid any bumped or jammed.

Packing List

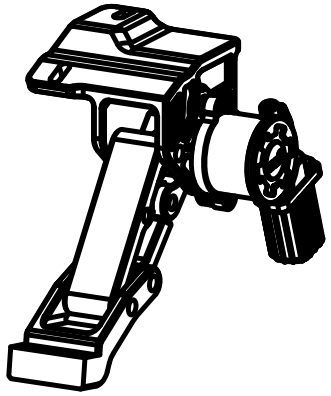


① Board Assembly 41 ×2
6141100.3

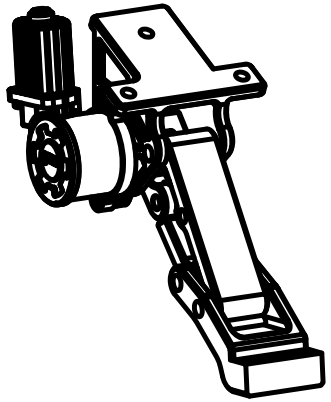
（A）6128100.2-2	PR End Cap Left	（×1）
（B）6141100.3-1	Board 41	（×1）
（C）6128100.2-1	PR End Cap Right	（×1）
（D）6126100.3-3	T-nut	（×2）
（E）6141100.3-2	Skidproof Tube 41	（×1）



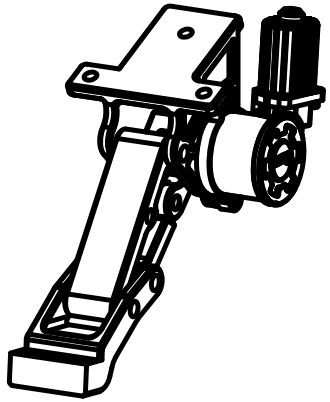
②-Front Motor Linkage 41R ×1
6141100.1R



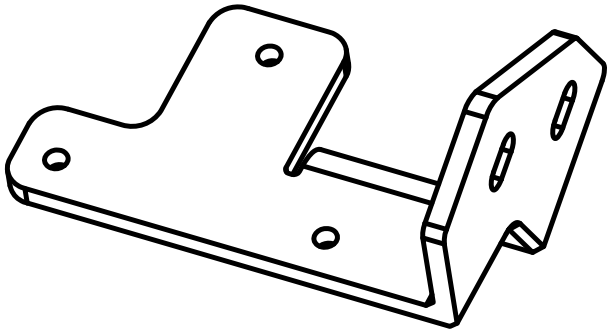
③-Front Motor Linkage 41L ×1
6141100.1L



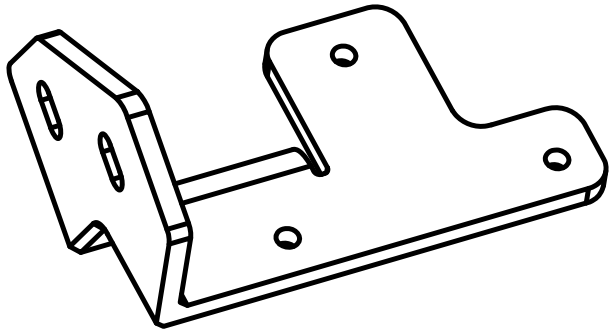
④-Rear Motor Linkage 41L ×1
6141100.2L



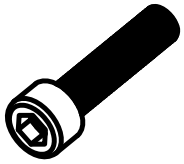
⑤-Rear Motor Linkage 41R ×1
6141100.2R



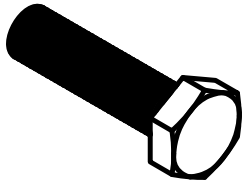
⑥-Mounting Plate 41L ×1
6141100.0.1L



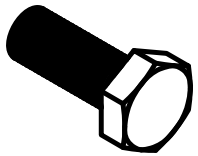
⑦-Mounting Plate 41R ×1
6141100.0.1R



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

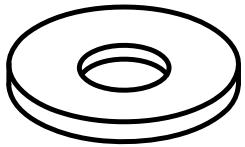


⑨-Hexagon Head Bolt×6
GB/T5783-2000 M8×30

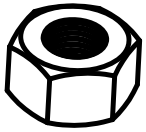


⑩-Hexagon Head Bolt×6
GB/T5783-2000 M8×20

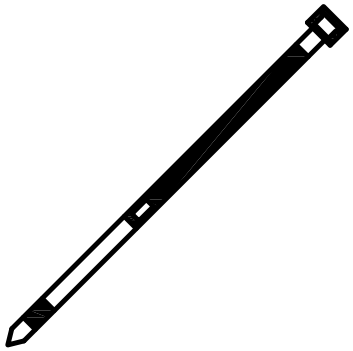
⑪-Spring Washer ×14
GB/T93-1987 8



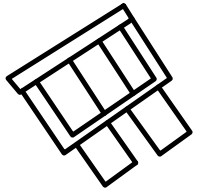
⑫-Flat Washer Grade A ×14
GB/T96.1-2000 8



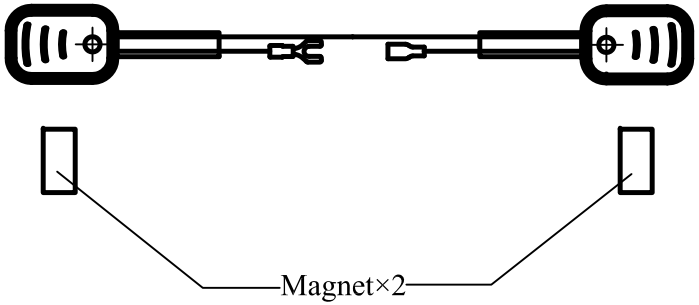
⑬ -Hex Nut ×2
GB/T6170-2000 M8



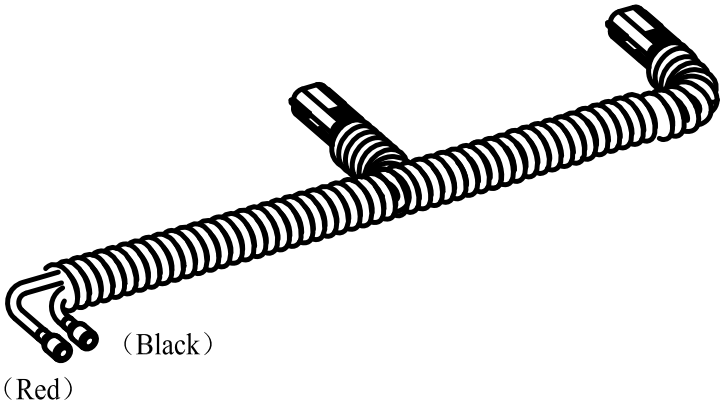
⑭-Cable Tie ×25
GB/T22344-2008 5×300



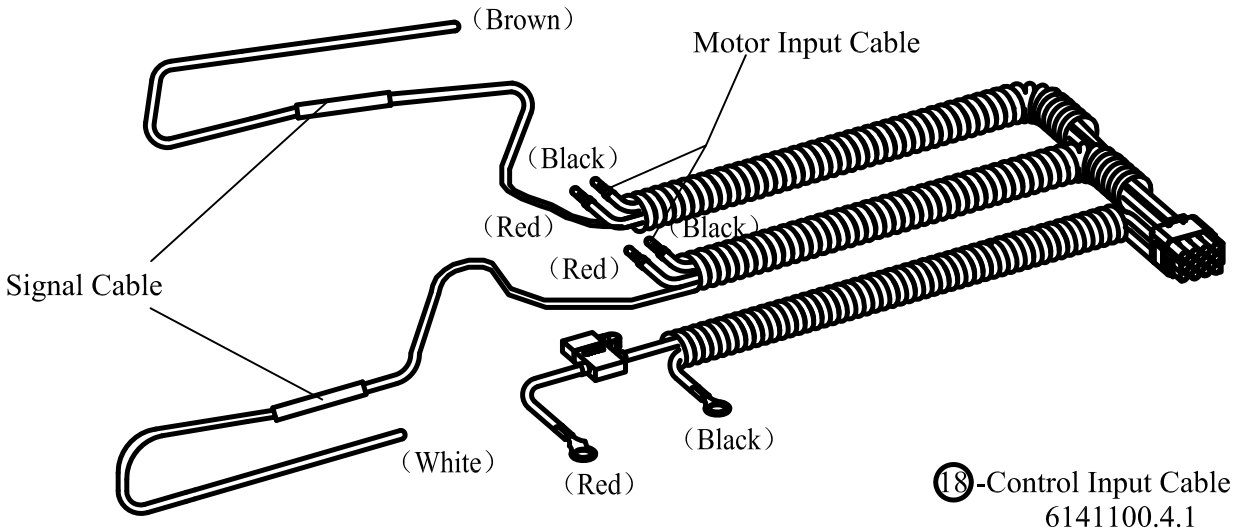
⑮-25A Fuse ×2



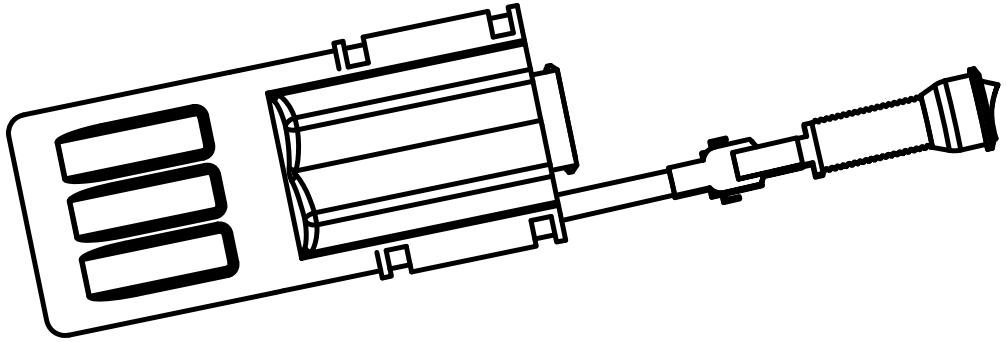
⑯-Magnetic Inductor ×2
Magnet×4



⑰-Motor Connection Cable×2
6141100.4.3

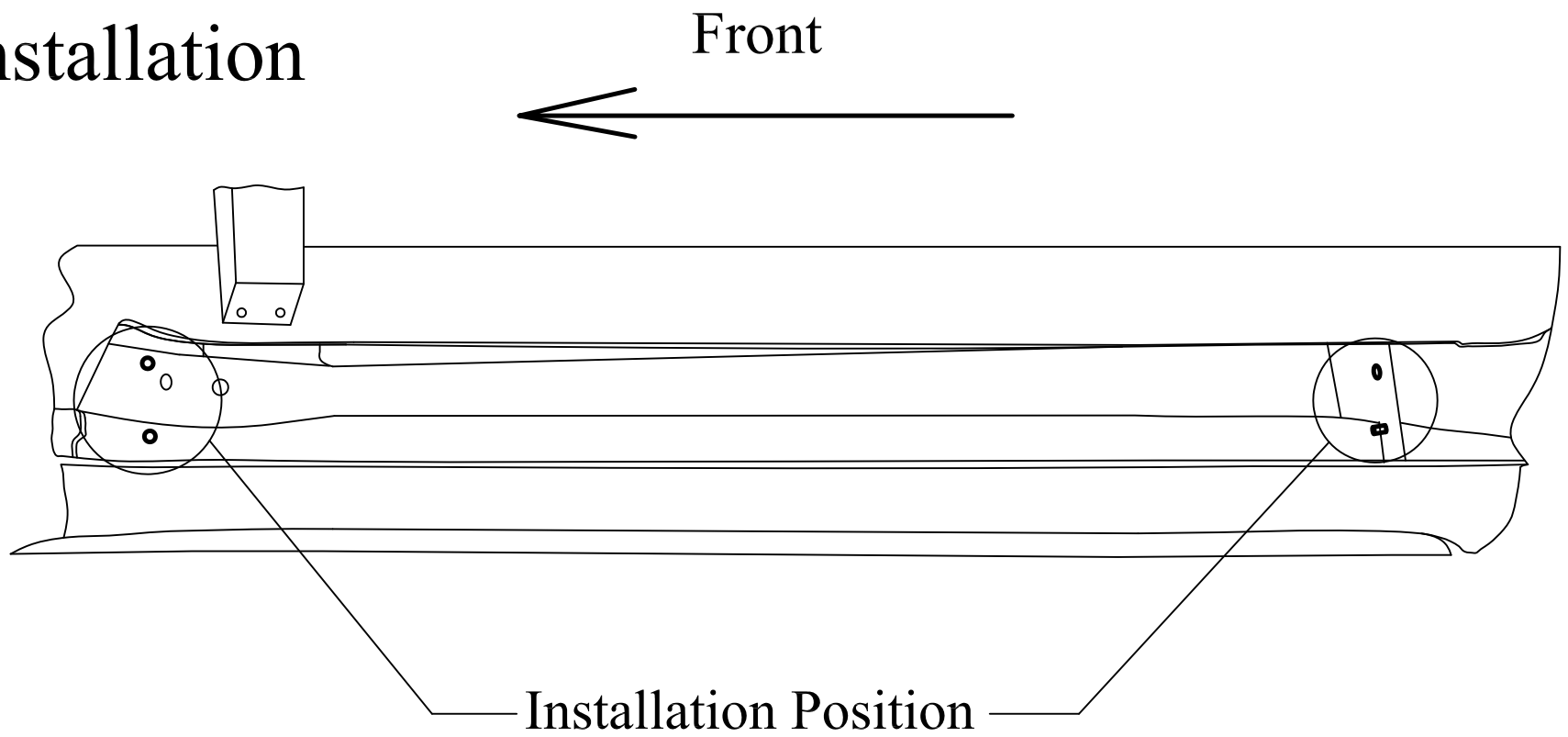


18-Control Input Cable 41×1
6141100.4.1



19-Controller Assembly 41×1
6141100.4.6

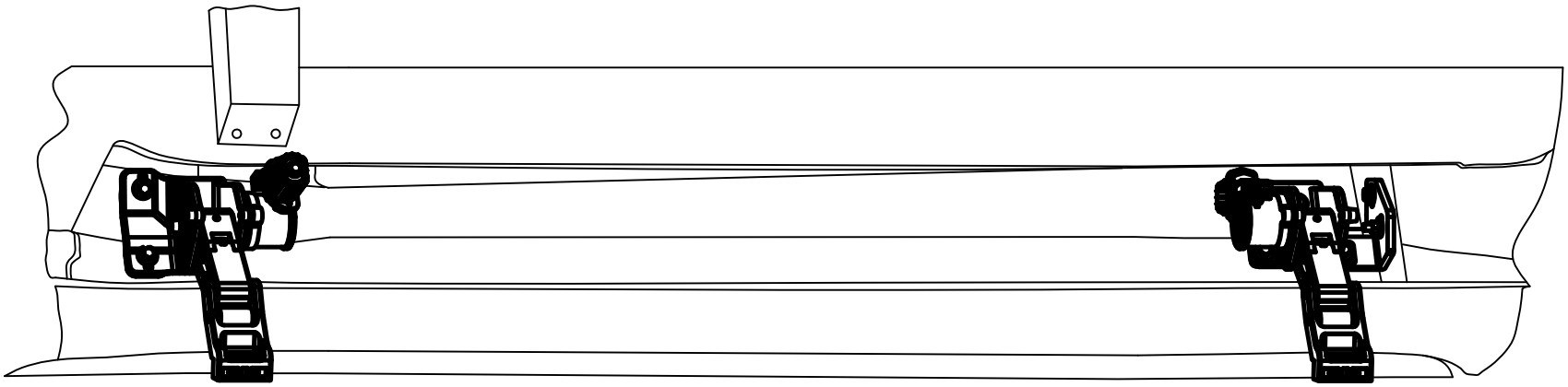
Mechanical Installation

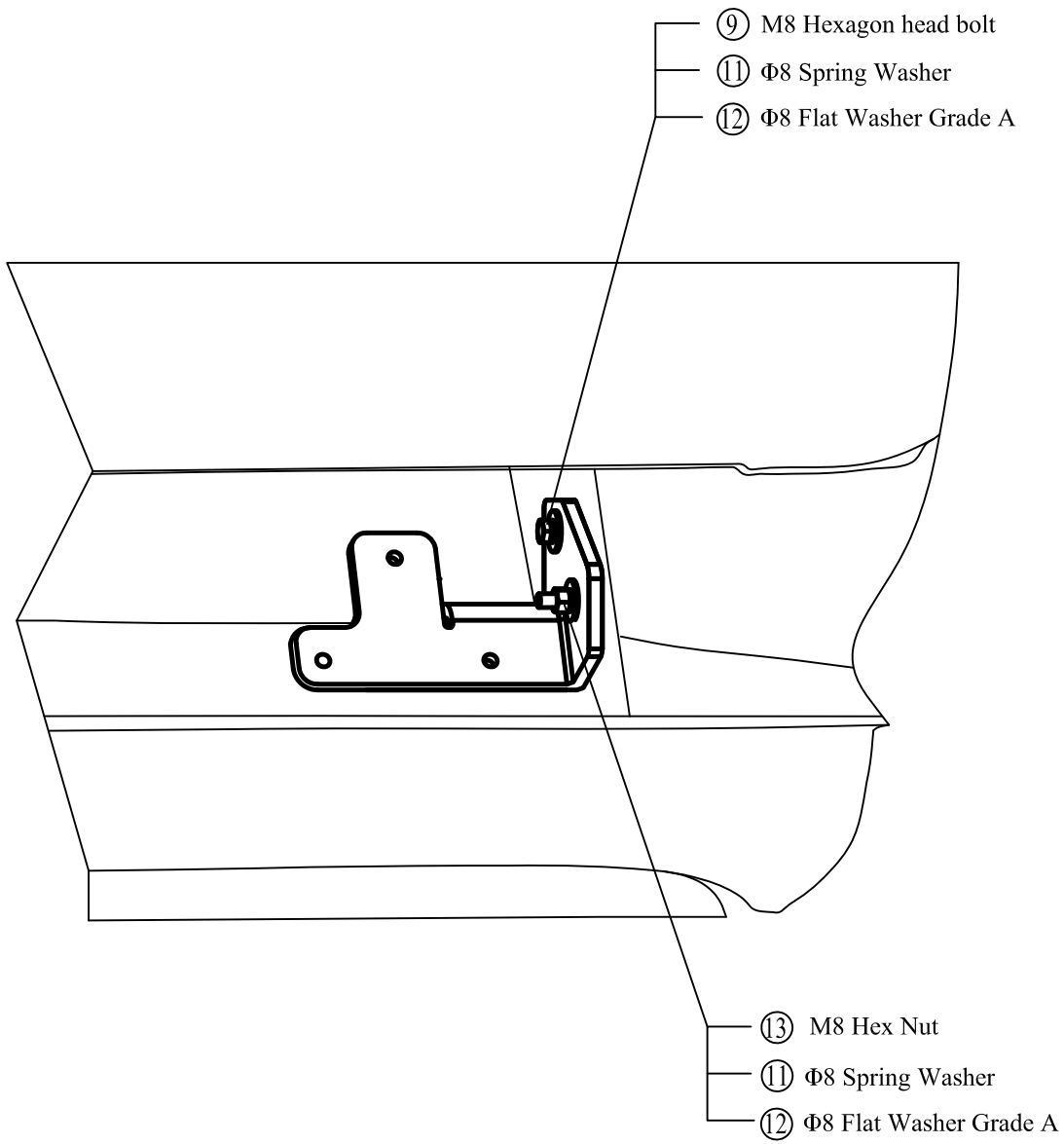


Installation position on the right side

As shown in the picture: Threaded hole and threaded rod of two sides are the installation holes. The installation holes should be match with the holes on the mounting plate and linkage.

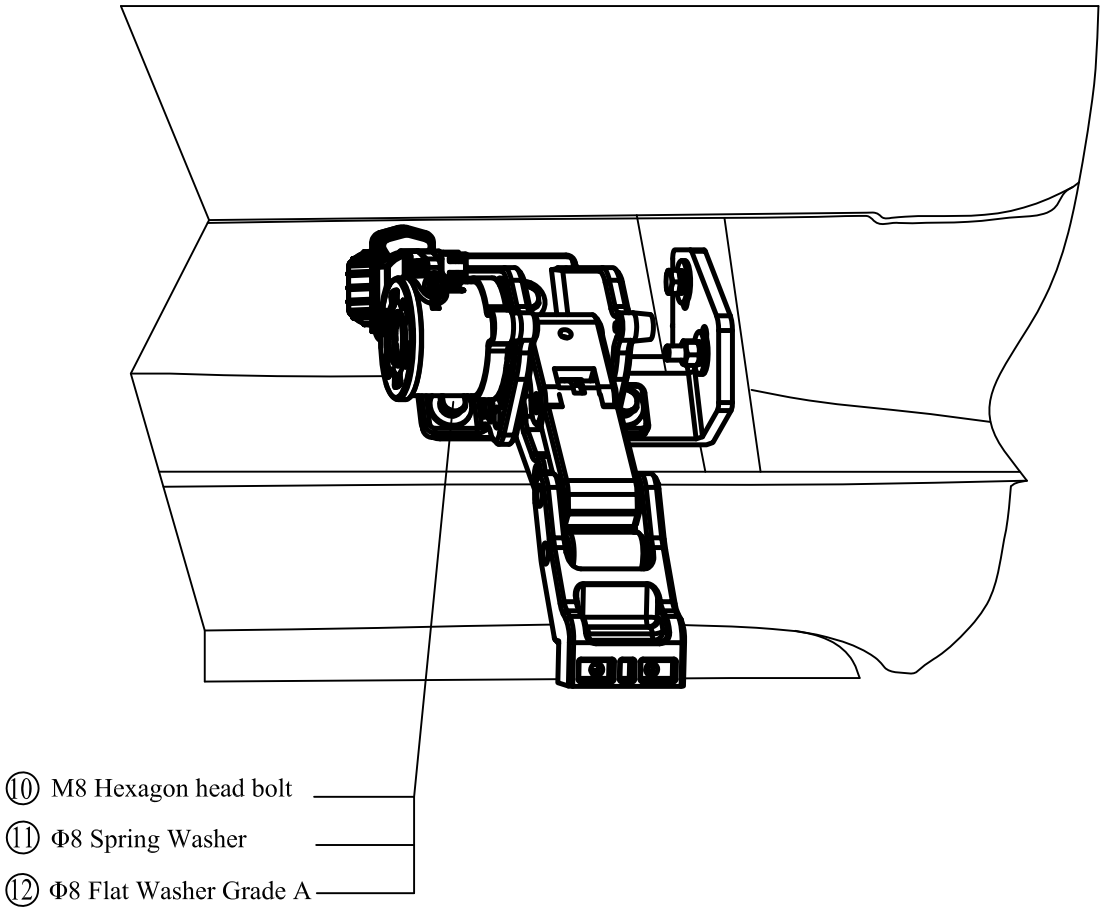
Front





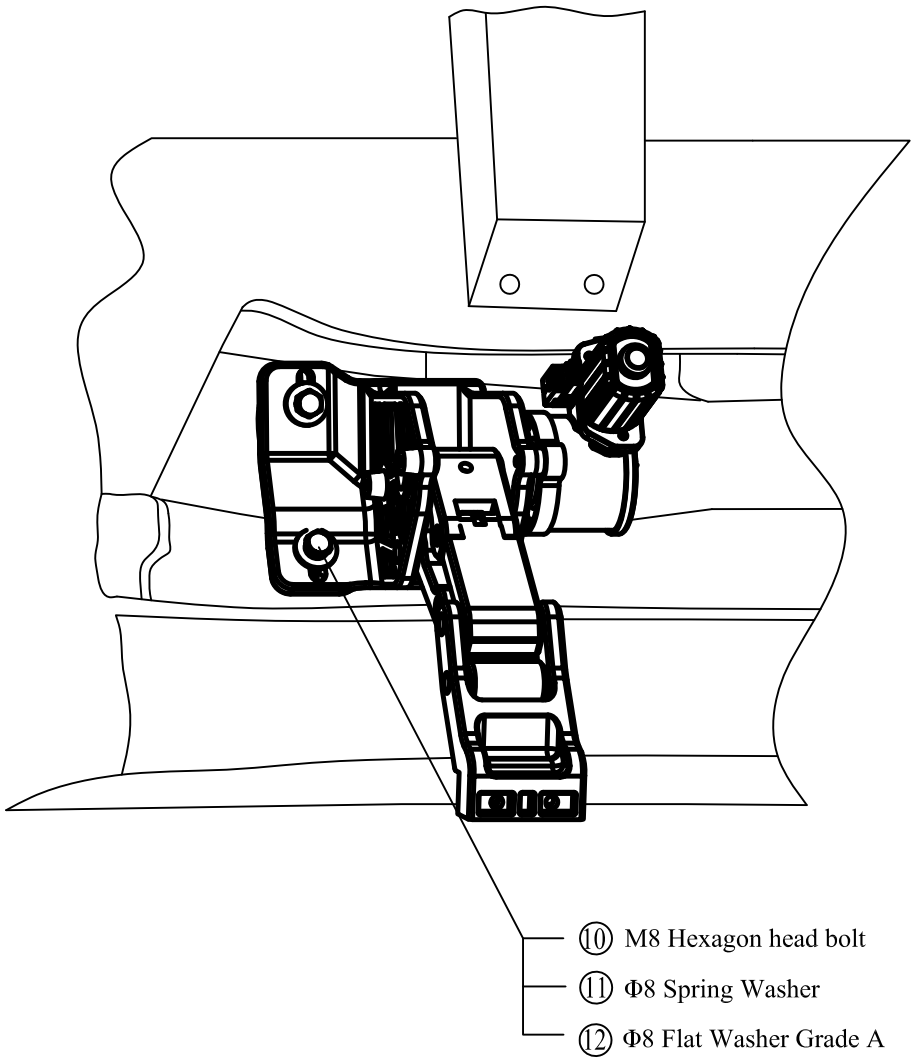
Step 1: As shown in the picture, screw ⑬ the hex nut and ⑨ hexagon head bolt (with ⑪ spring washer and ⑫ flat washer grade A) into the corresponding installation position to fix the mounting plate on the vehicle body and pre-tighten it. (Tightening torque 30Nm)

On the rear right side



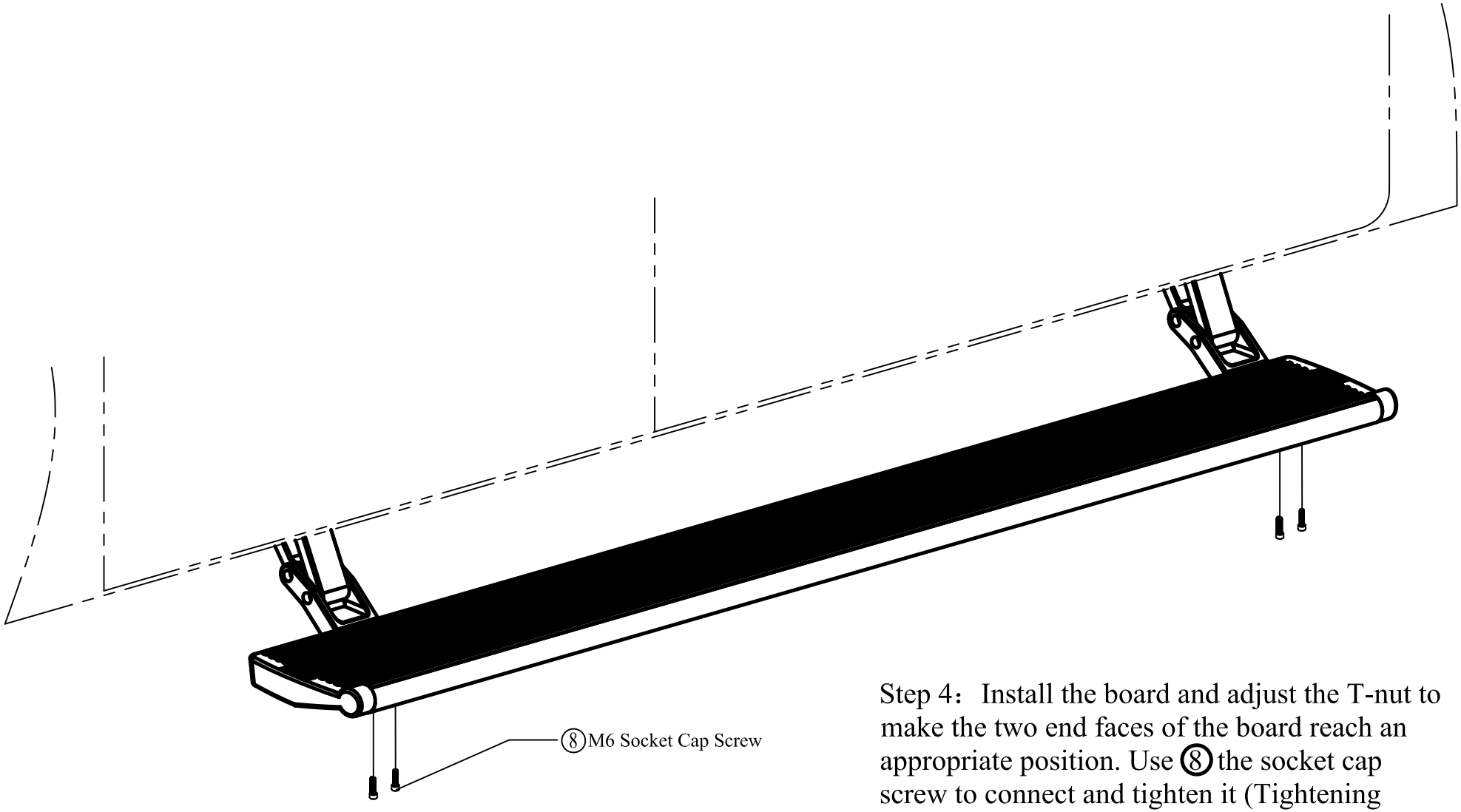
Step 2: As shown in the picture, screw ⑩ the hexagon head bolt (with ⑪ spring washer and ⑫ flat washer grade A) into the corresponding installation hole. Tighten the above hex bolt ⑩, to make the rear motor linkage and transition plate combined together .
(Tightening torque 30Nm)

On the rear right side



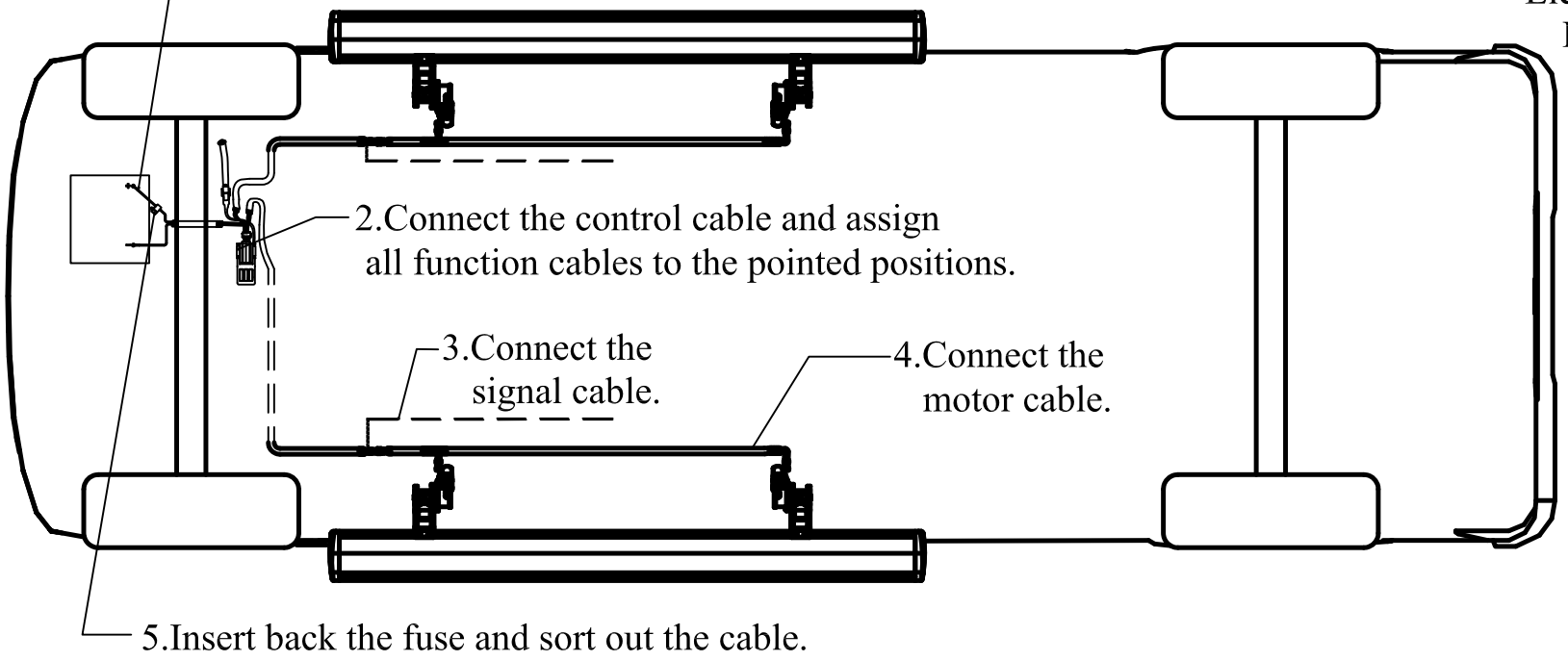
Step 3: As shown in the picture, screw ⑩ the hexagon head bolt (with ⑪ spring washer and ⑫ flat washer grade A) into the corresponding installation hole. Tighten the above hex bolt ⑩ ,to make the front motor linkage and vehicle body combined together . (Tightening torque 30Nm)

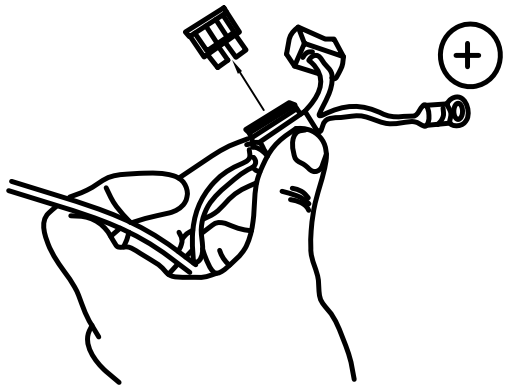
On the front right side



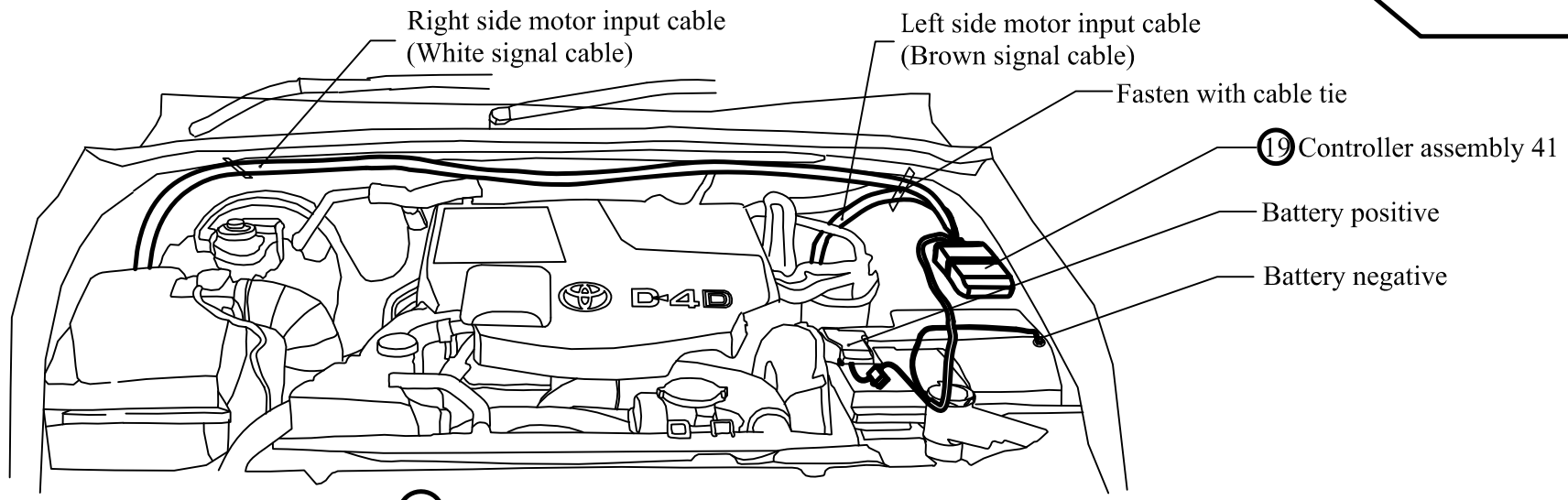
Step 4：Install the board and adjust the T-nut to make the two end faces of the board reach an appropriate position. Use ⑧ the socket cap screw to connect and tighten it (Tightening torque is 14Nm).

Electric Installation of Magnetic Control

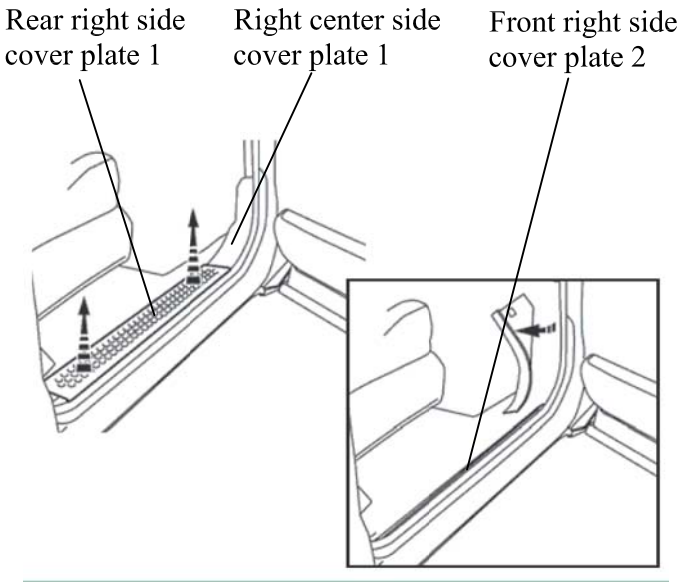




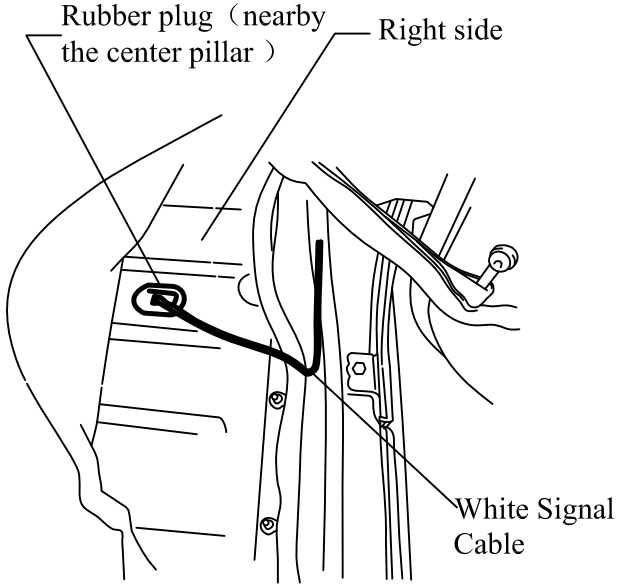
Step 5: Find ⑱ control input cable and pull out the fuse (ensuring circuit safety during installation) and connect positive cable to the positive vehicle battery and negative cable to the negative vehicle battery.



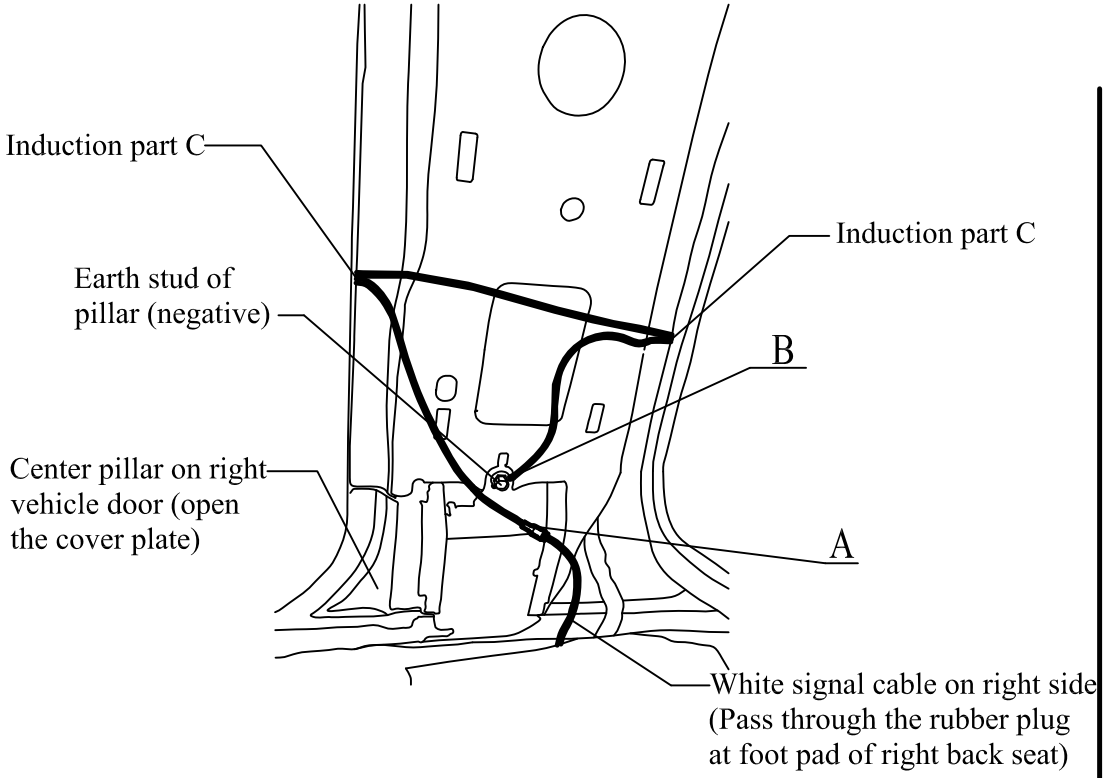
Step 6: As shown in the picture, fasten 19 controller assembly by cable tie, and assign the cables according to the label. The motor cable pass through the vehicle floor to the vehicle bottom, and signal cable pass through the rubber plug in the engine compartment to the vehicle inside. Fix the cable harness on the vehicle by cable tie.



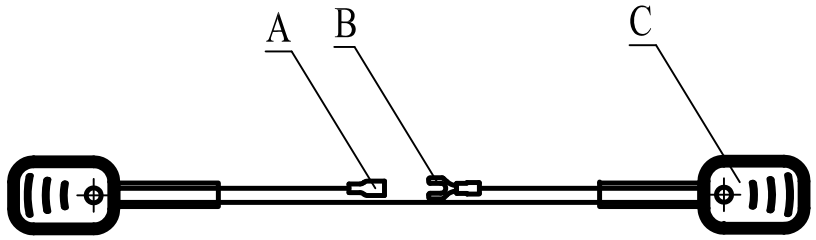
Step 7: Signal Cable connection: Pry the three cover plates at the right side (front door , rear door and the center pillar) as shown in the left picture, lift the foot cushion and white signal wire have to pass though from the sealing rubber cover and get into the vehicle. (A hole should be bored in advance on the rubber cover.) Left side is same as right side. Pry the three cover plates at the left side (front door , rear door and the center pillar) , lift the foot cushion and brown signal cable have to pass though from the sealing rubber cover and get into the vehicle.



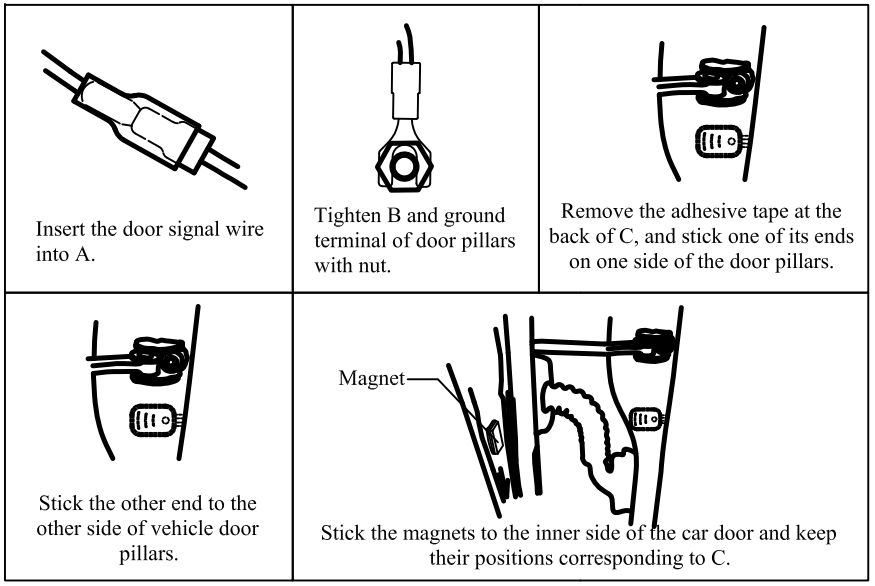
Introduction of magnetic inductor

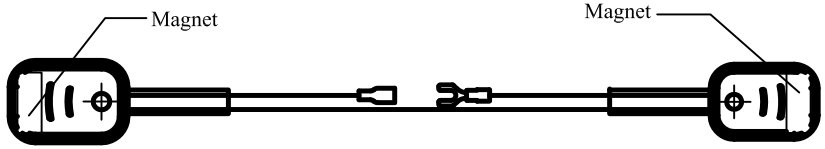


Step 8: Open the cover plate of center pillar of right side vehicle, exposing the above part(as shown above) . Connect the white signal cable to the terminal A and loosen the earth stud of center pillar of vehicle(ensure there is no oil paint interface of stud and the earth stud). Connect terminal "B" to the earth stud, and tighten it. Stick the induction part C to both side of pillar(shown as above picture) and 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.

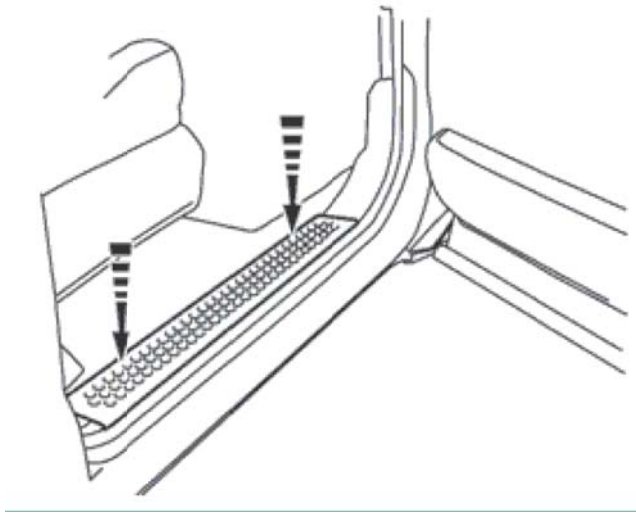


Introduction of magnetic inductor

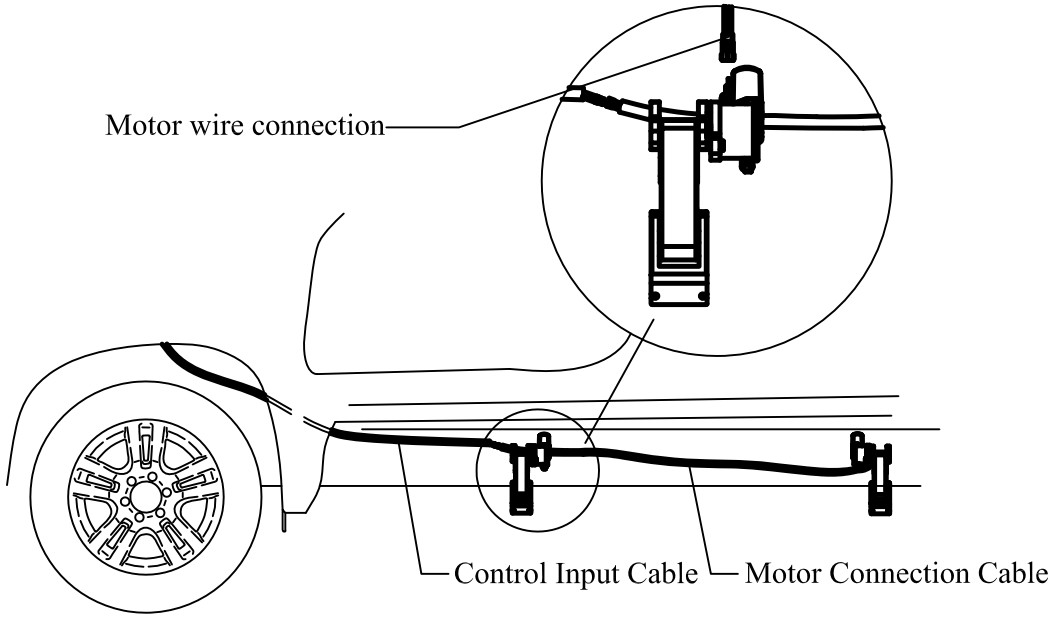




Instruction: when close the door , the magnet corresponding position is as shown above picture.

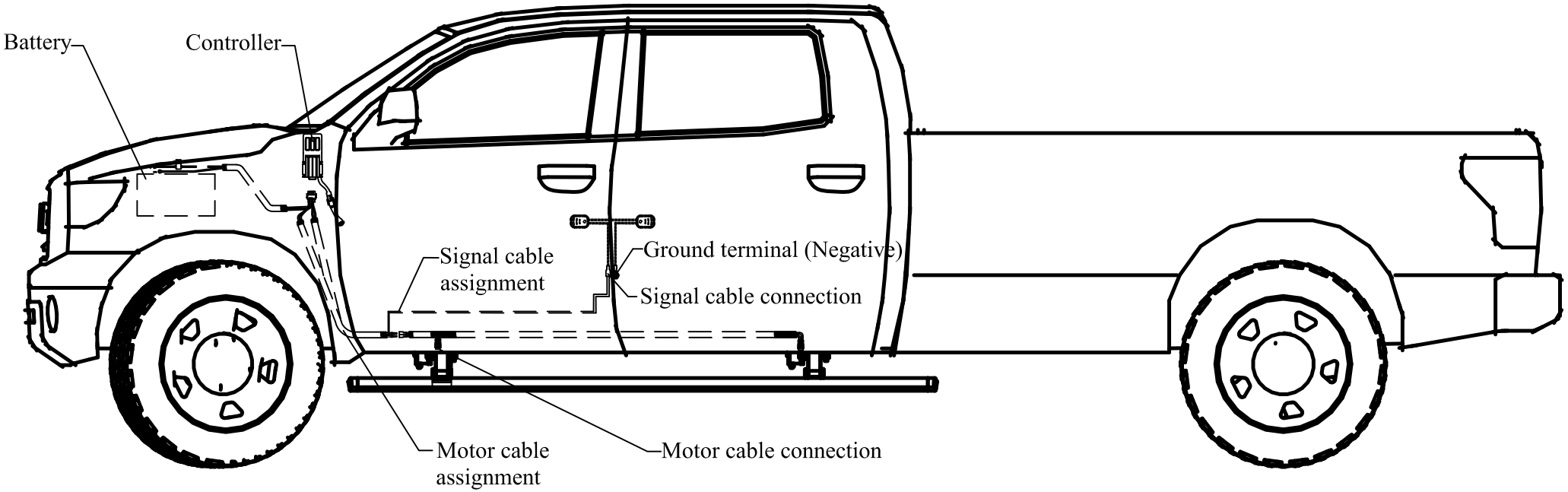


Step 9: Make the cables in order and close cover plate.



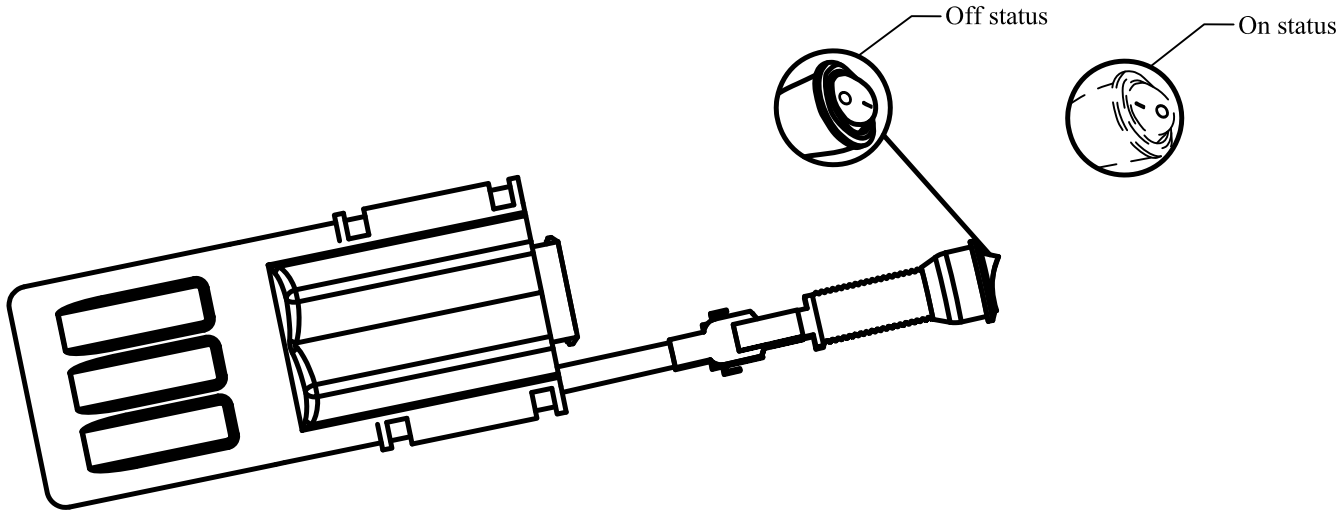
Step 10: Motor cable connection, connecting ⑰ the motor connection cable with ⑱ control input cable and arrange the cable along the vehicle beam. Note that the connectors of conductors of the same color should be connected together. Same color motor connector should be connected together. Fasten the cable on the vehicle beam by cable tie to ensure the cable is neat. Same cable installation for the other side.

Summary of electric part



Step 11: Insert back the fuse, make the cables in order. Check if all the cables if installed completely and test if the board can work normally. If it can work normally, the installation is completed. (If it cannot work normally, please check the installation of each 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

E-BOARD®

Produced by

T-MAX(HANGZHOU)TECHNOLOGY CO.,LTD