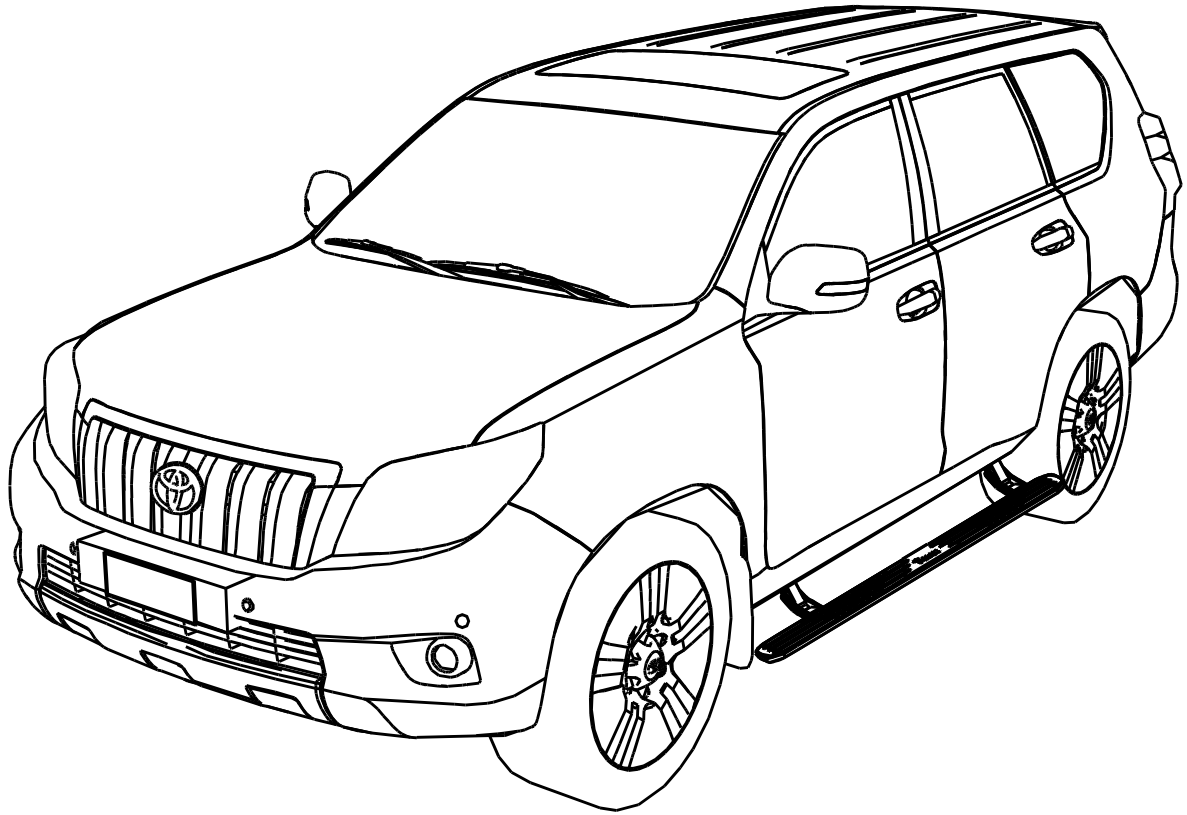
E-BOARD

TOYOTA PRADO 150 POWER BOARD



APPLICATION：2015-UP

TOYOTA PRADO 150

INSTALLATION GUIDE

INSTALLATION TIME

TIME 3:00

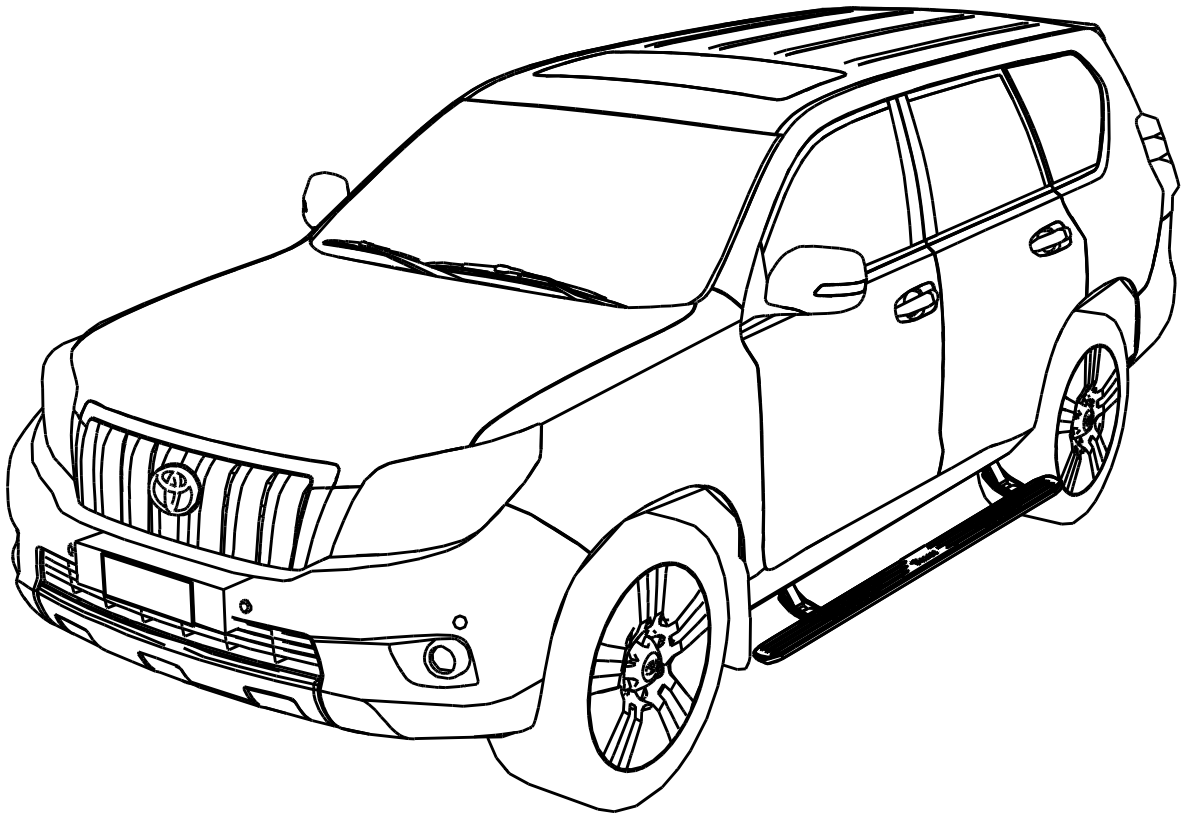
SKILL LEVEL

① ② ③ ④

PART：PST02-0610

TOOLS REQUIRED：

① 5mmHex Key Wrench(allen wrench)
② 13mm Socket
③ Pry
④ Wire stripper/cutter
⑤ Vinyl Tape
⑥ Screw Driver



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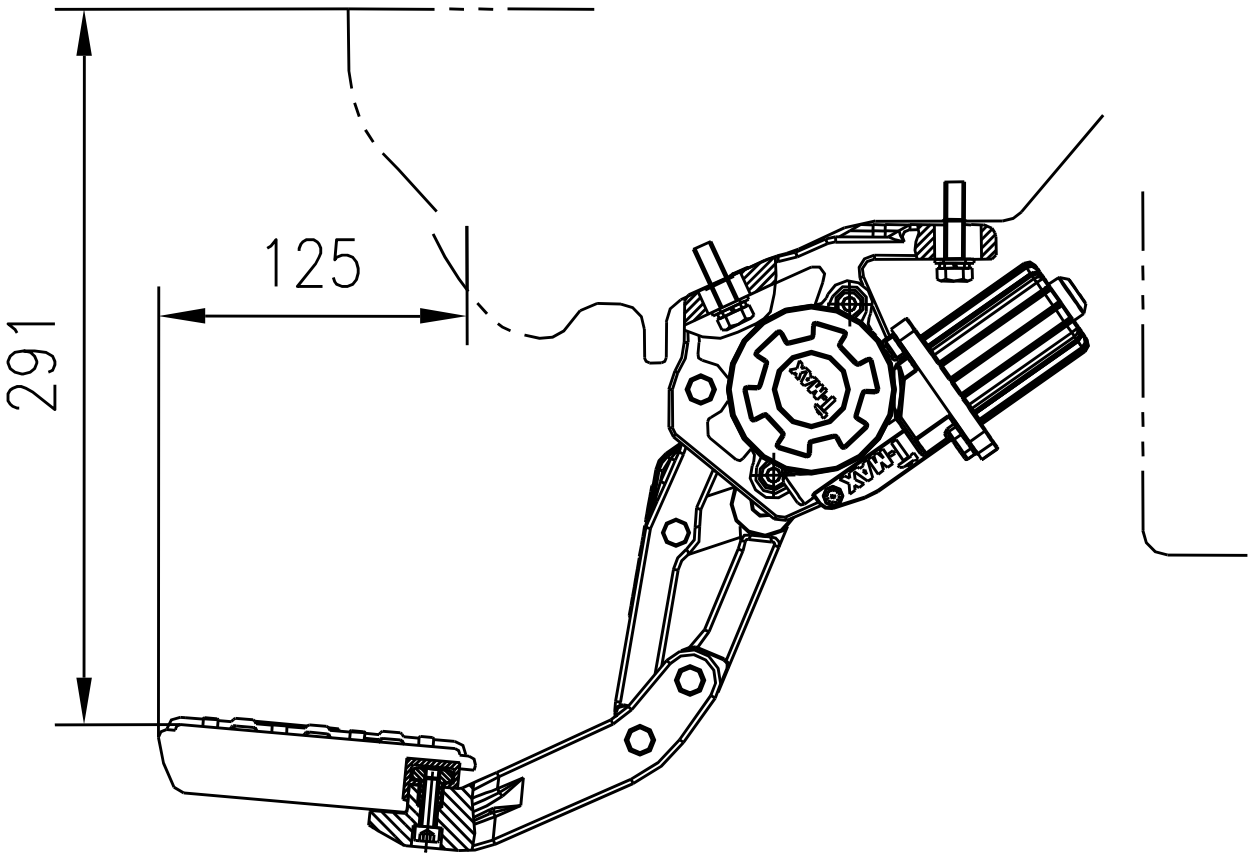
Product Technical Specification



Rated voltage：12V

Rated load ：≤300kg

Length ： 1.46m

Gross weight ： 35kg

Forward extension size ： 125mm

(Horizontal distance between the edge of power board and the vehicle door when the board extends)

Board falling dimension ： 291mm

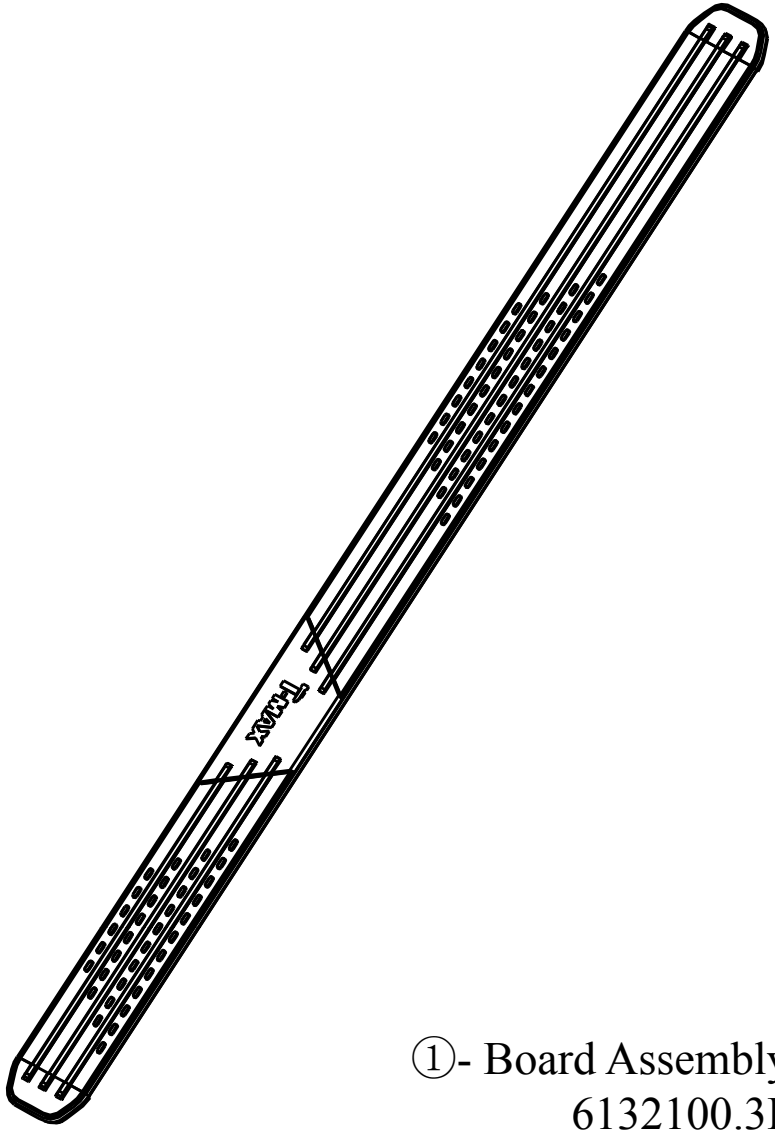
(Vertical height difference between the edge of power board and the vehicle door while board extending.)

(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.)

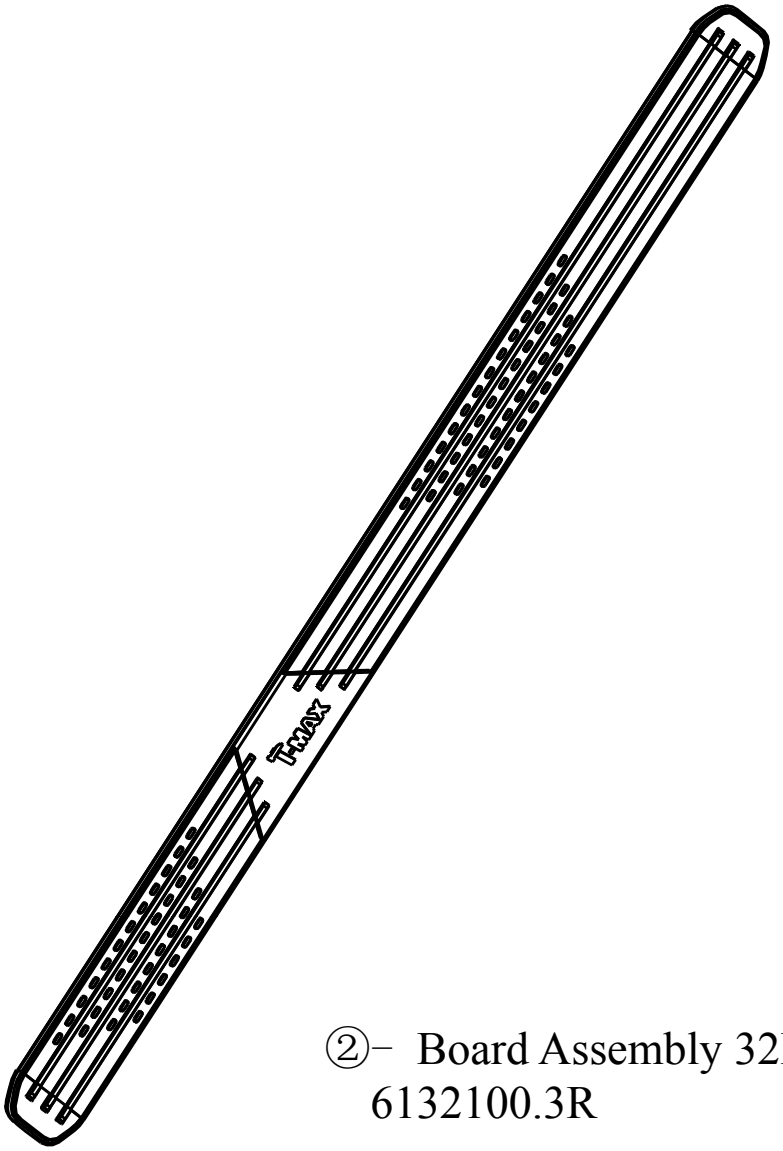
Note: Impact load is not allowed.

Please make sure the children and the aged will keep 20cm safe distance while power board is working to avoid any bumped or jammed.

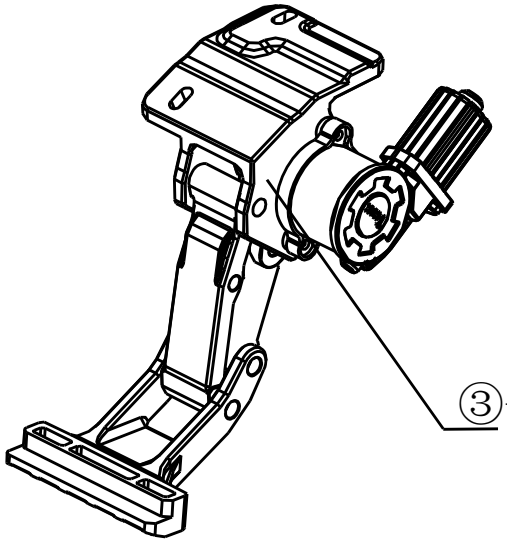
Product Packing List



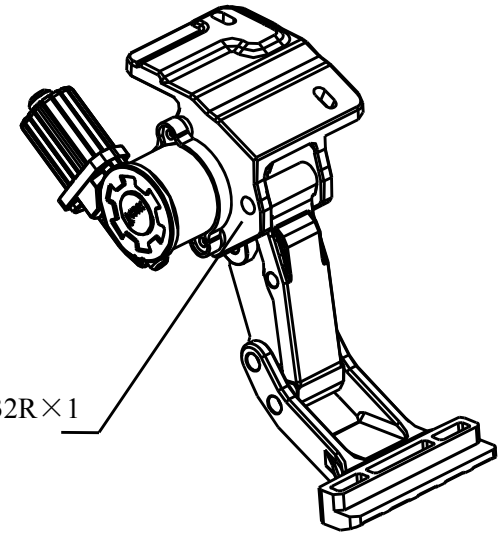
①- Board Assembly 32L×1
6132100.3L



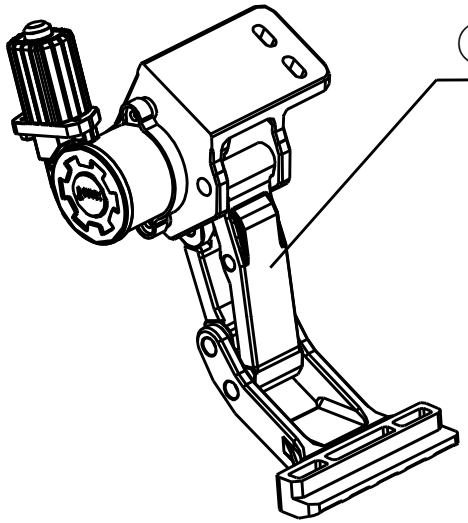
②- Board Assembly 32R×1
6132100.3R



③– Front Motor Linkage Left 32L×1
6132100.1L

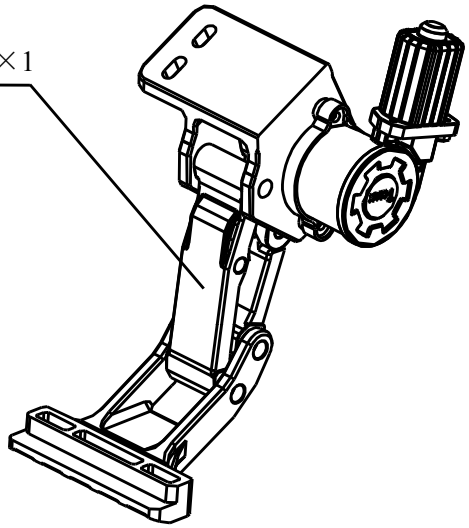


④- Front Motor Linkage Right 32R×1
6132100.1R

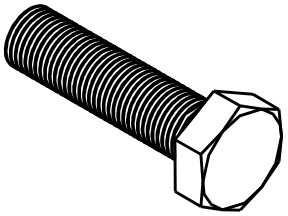


⑤– Rear Motor Linkage Left 32L×1
6132100.2L

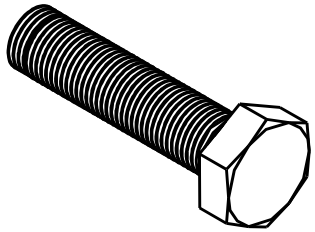
⑥– Rear Motor Linkage Right 32R×1
6132100.2R



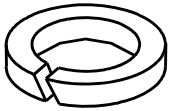
Parts for Linkage Installation



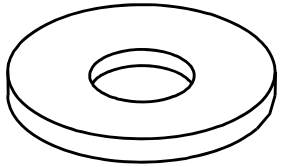
⑦-Hexagon Head Bolt×6
GB/T5783-2000 M8×30



⑧-Hexagon Head Bolt×2
GB/T5783-2000 M8×35

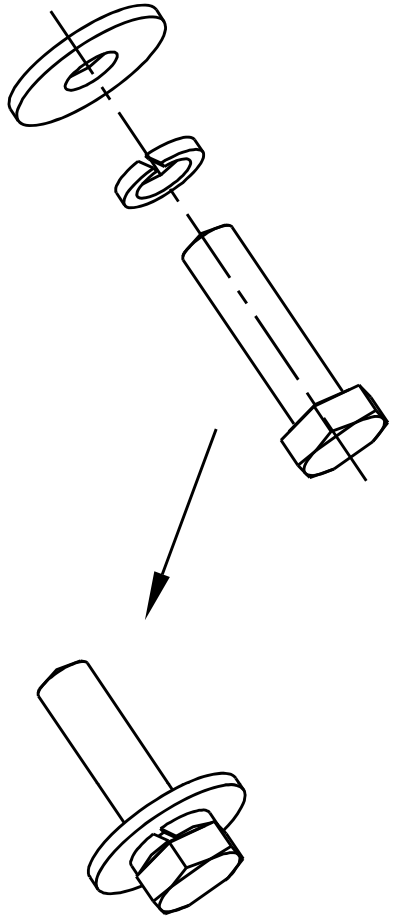


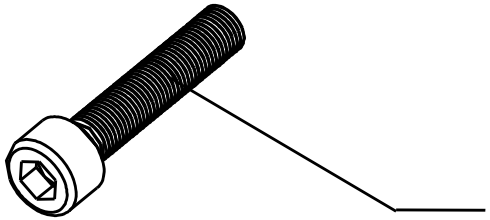
⑨-Spring washer×8
GB/T93-1987 8



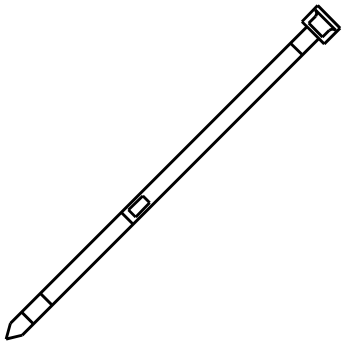
⑩-Flat washer grade A×8
GB/T96.1-2000 8

Instruction

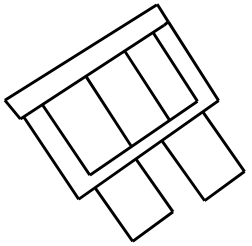




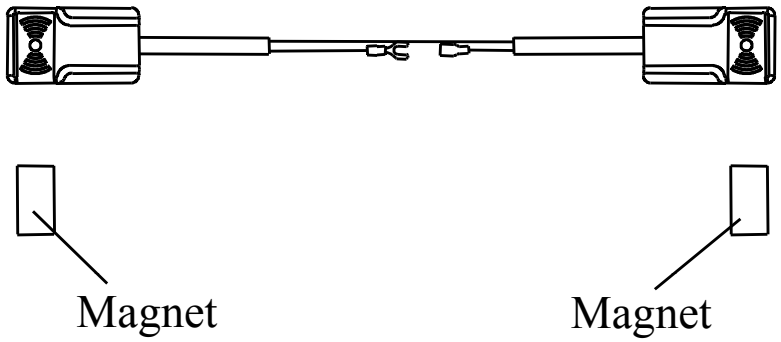
⑪-Socket Cap Bolt×8
GB/T70.1-2000 M6×25



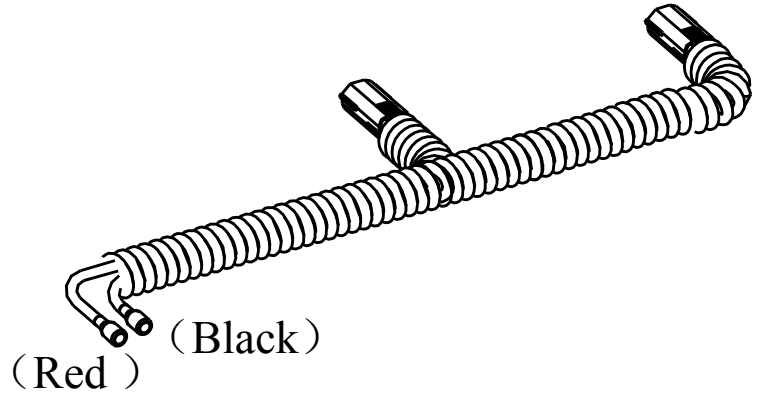
⑫-Cable Tie×25
GB/T22344-2008 5×300



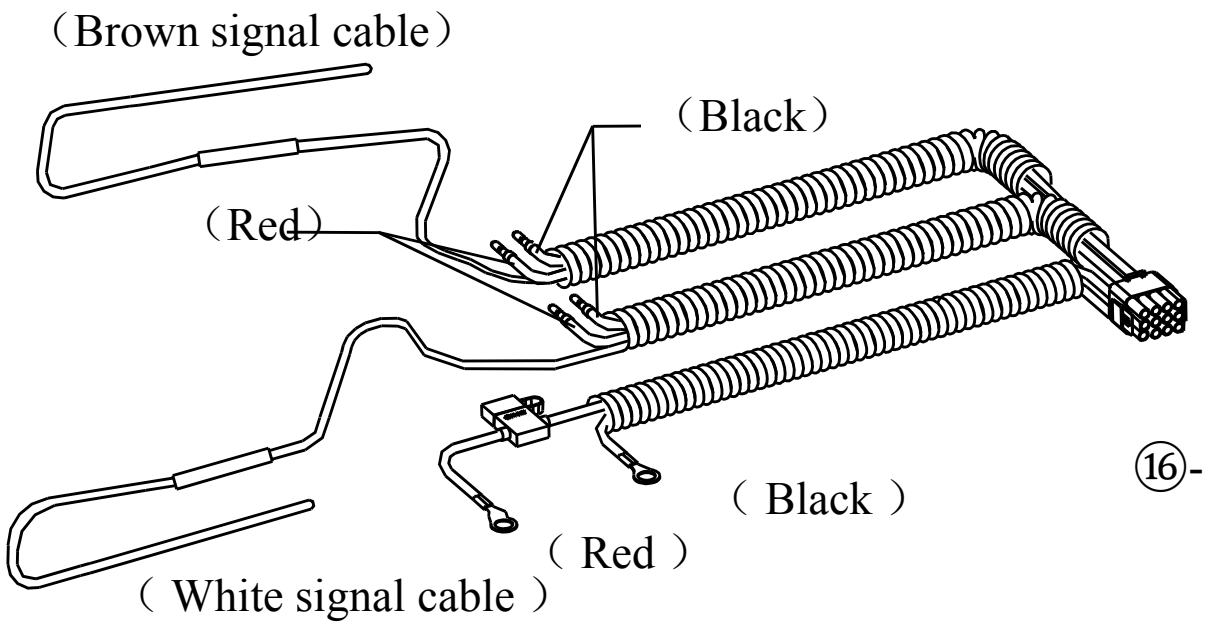
⑬-Fuse×2



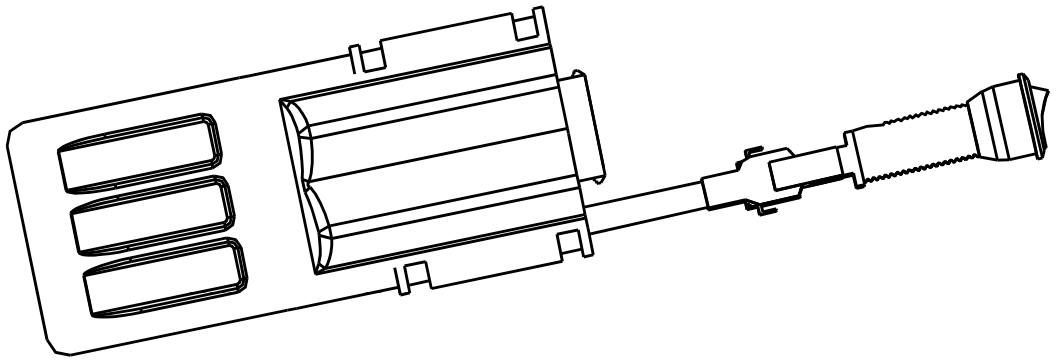
⑭-Magnetic Inductor ×2
Magnet×4



⑮-Motor Connection Cable 32×2
6132100.4.3

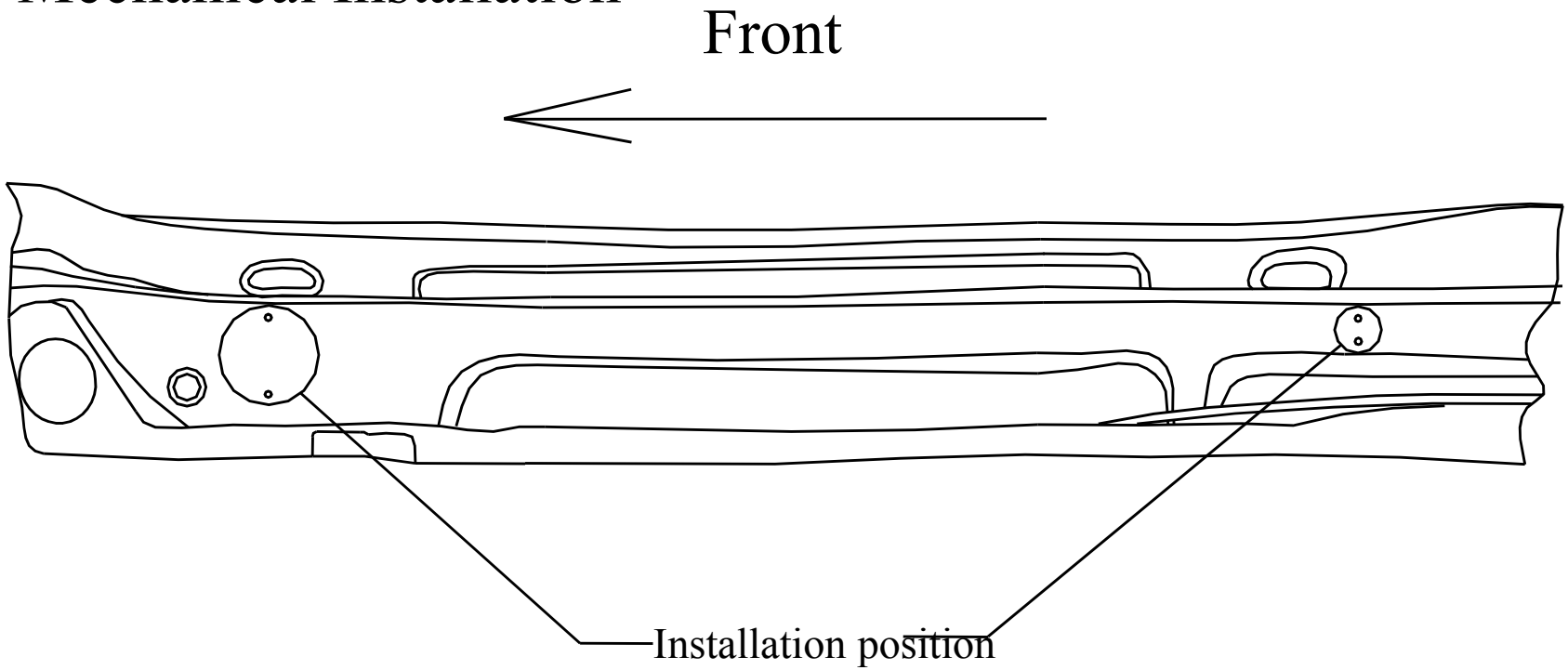


⑯- Control Input Cable 32×1
6132100.4.1



⑰- Controller Assembly 32×1
6124100.4.4A

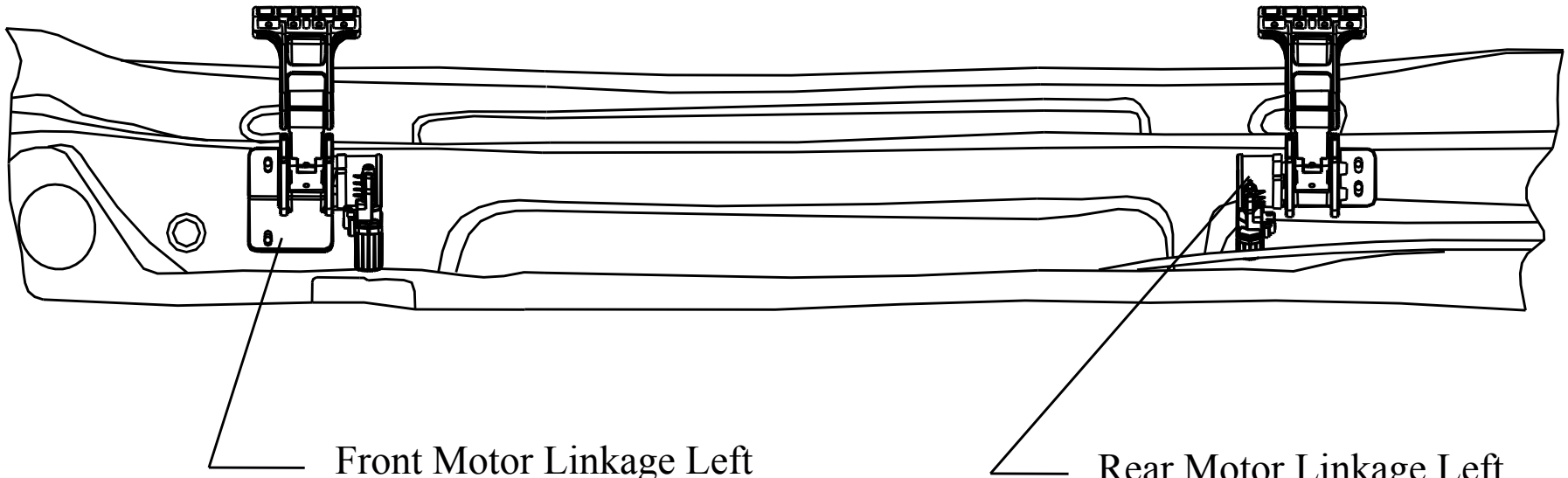
Mechanical Installation



Installation position on the Left

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

Front

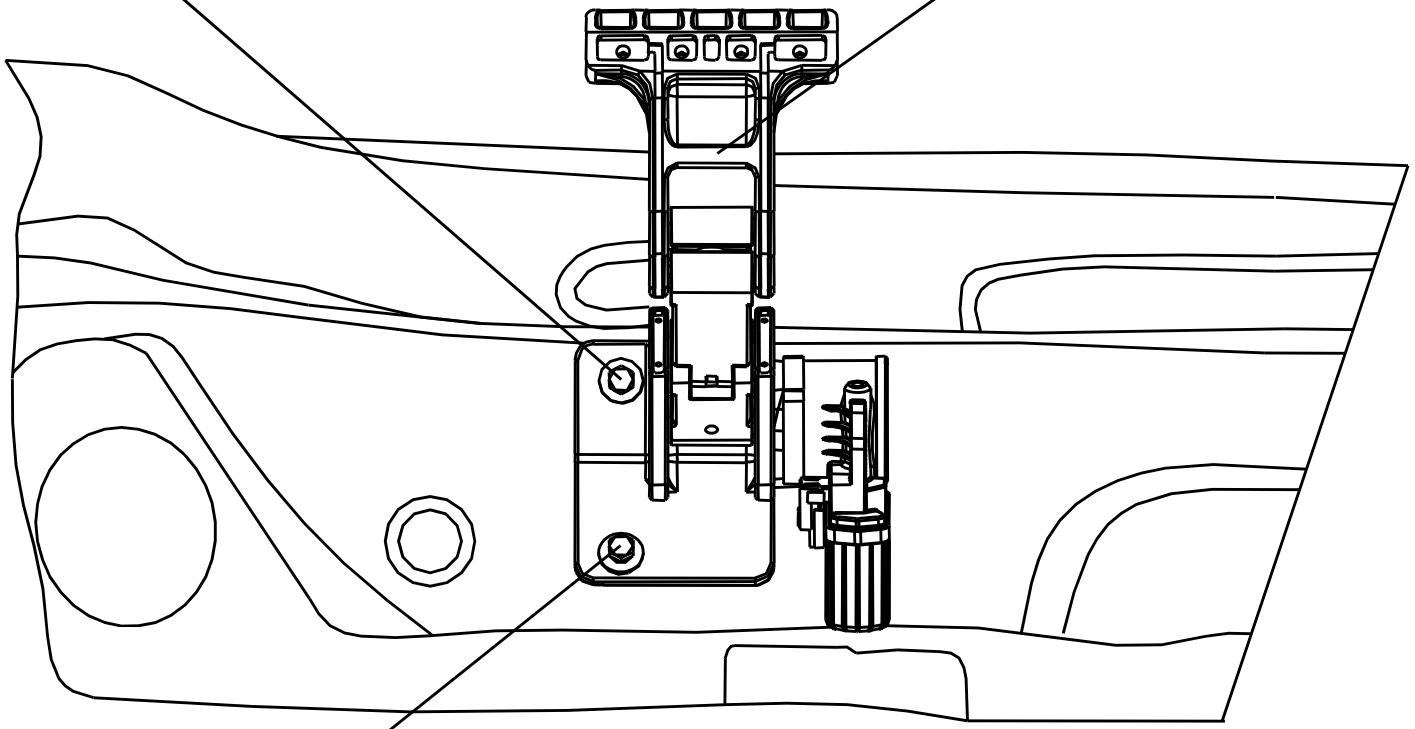


On the left side

As shown in the picture: the threaded holes should be matched with the installation hole of motor linkage.

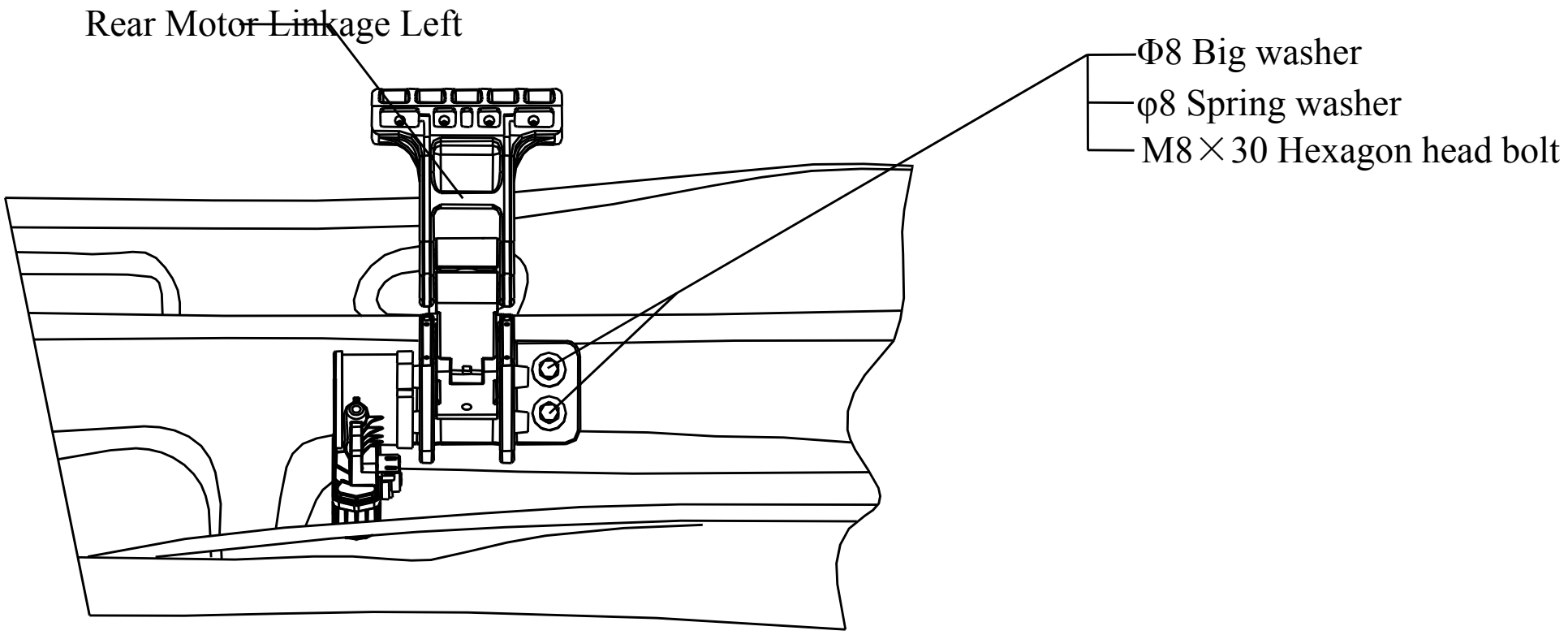
Φ8 Big washer
Φ8 Spring washer
M8×30 Hexagon head bolt

Front Motor Linkage Left

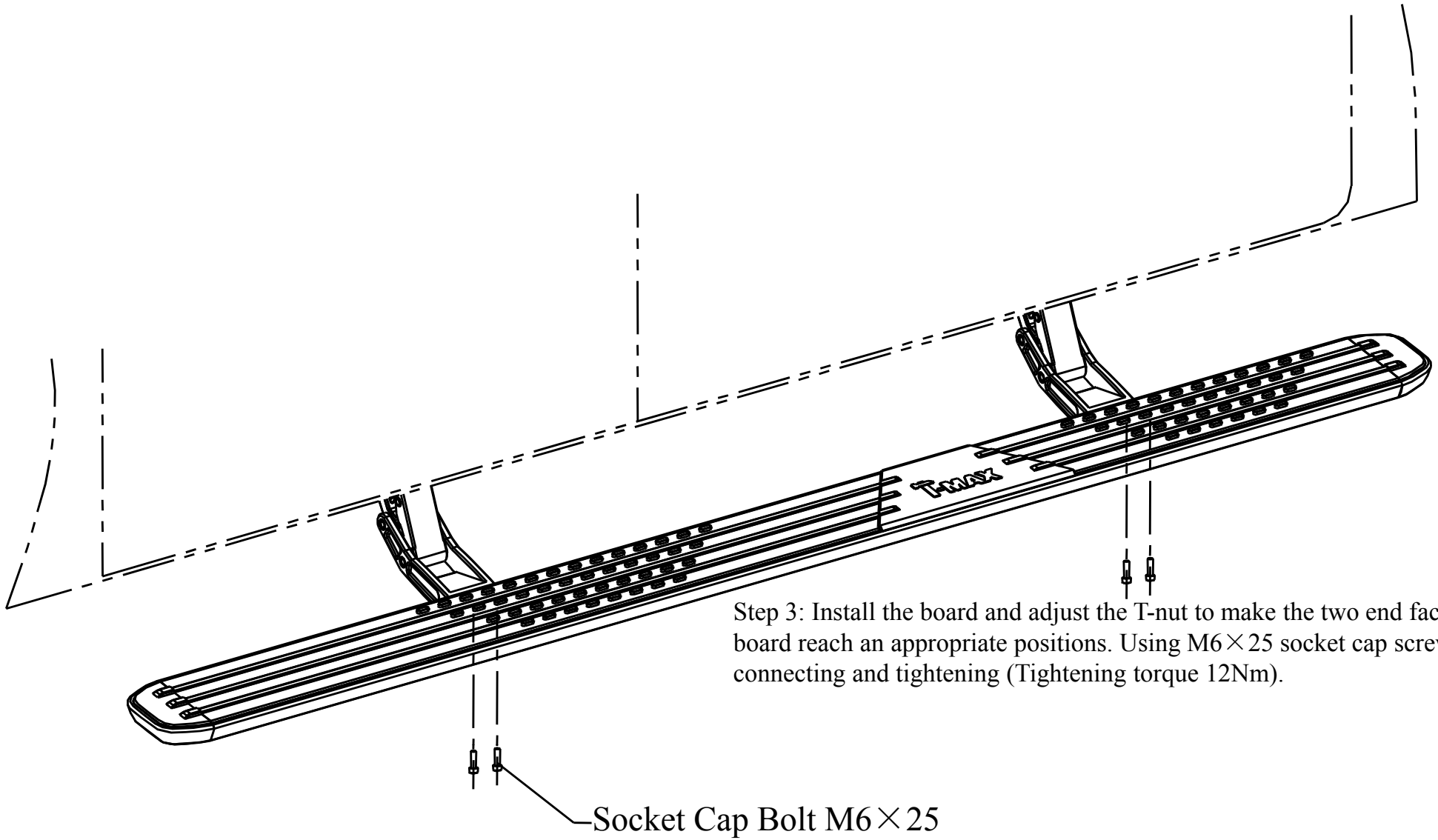


φ8 Big washer
Φ8 Spring washer
M8×35 Hexagon head bolt

Step 1: As shown in the picture, fixing the hexagon head bolt (with spring washer and big washer) into the corresponding installation hole and pre-tighten it. Making the front motor linkage left closely combine with the vehicle body.(Tightening torque 23Nm)



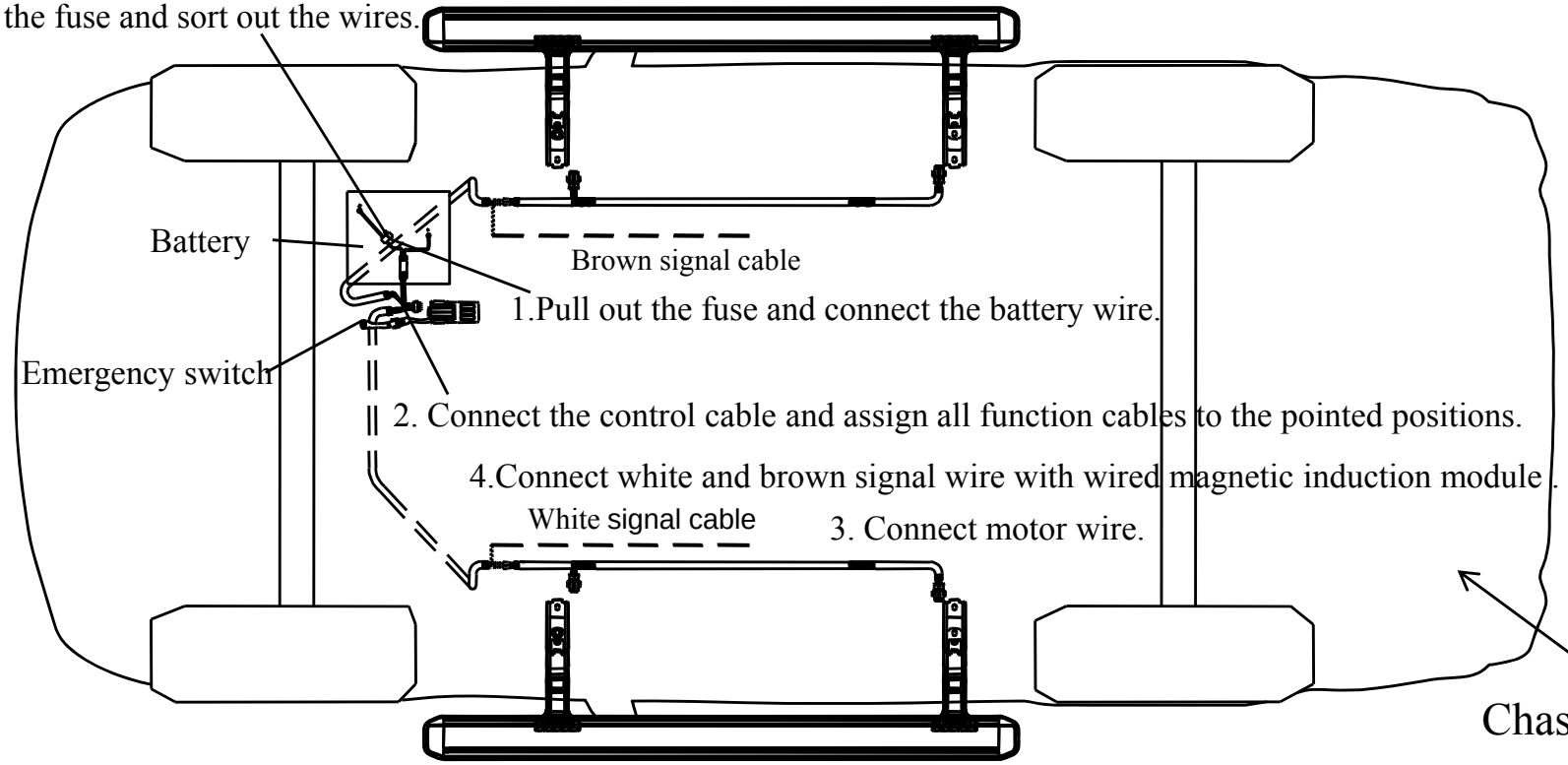
Step 2: As shown in the picture, fixing the hexagon head bolt (with spring washer and big washer) into the corresponding installation hole and pre-tighten it. Making the front motor linkage left closely combine with the vehicle body.(Tightening torque 23Nm)

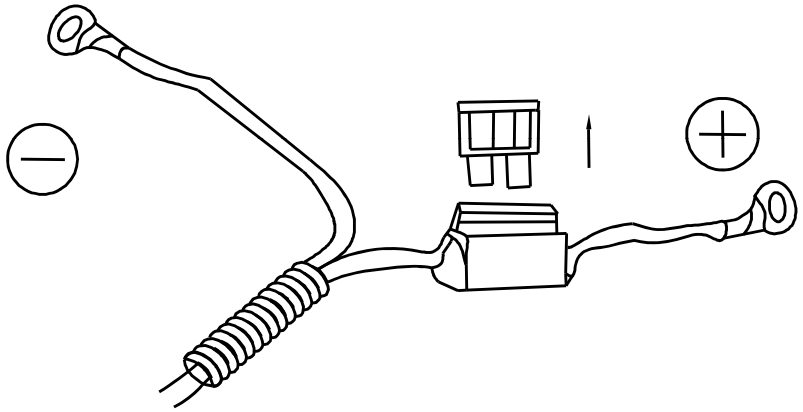


Step 3: Install the board and adjust the T-nut to make the two end faces of the board reach an appropriate positions. Using M6×25 socket cap screw for connecting and tightening (Tightening torque 12Nm).

Same board and linkage installation for the other side.

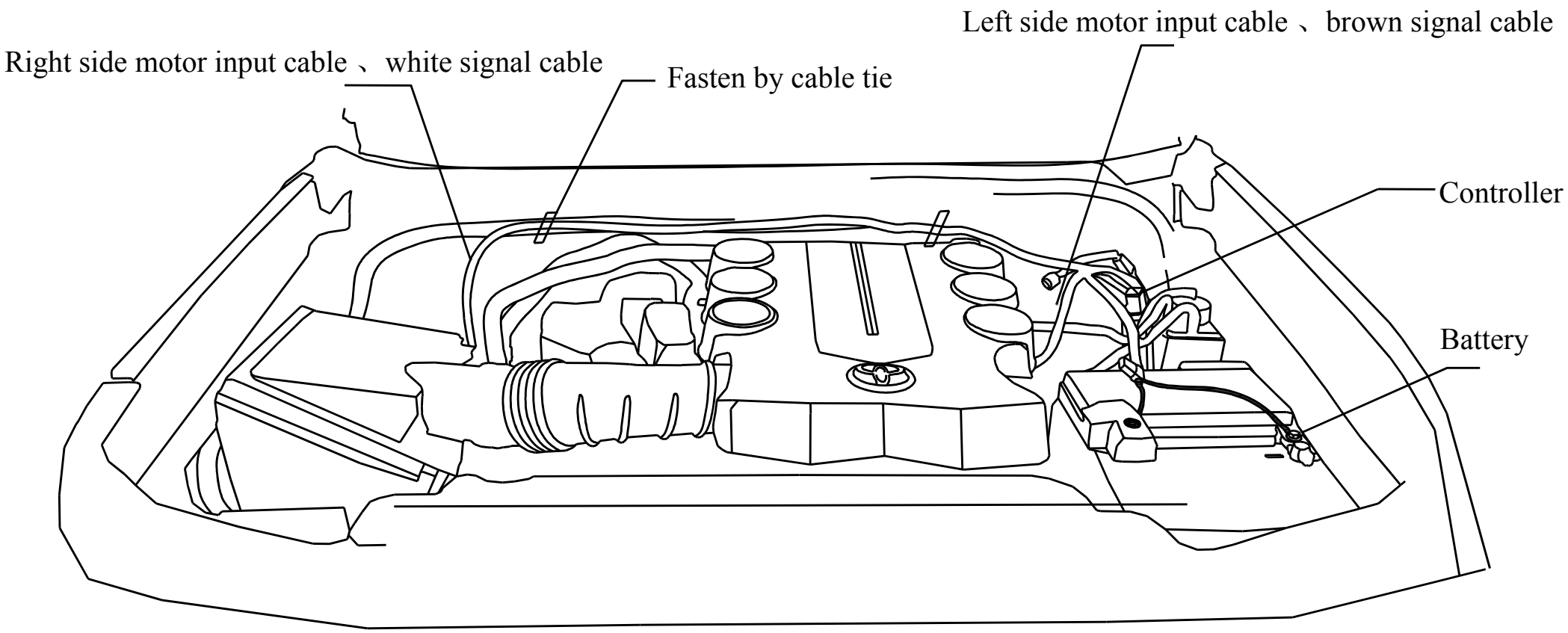
Electric Installation of Magnetic Control





Step 4: Find out the control input wire and pull out the fuse (ensuring circuit safety during installation) and connect the positive and negative pole of wire harness to vehicle battery respectively.

Note: Control wire can not be modified privately.



Step 5: As shown in the picture, fasten the controller assembly by cable tie, and assign the cables according to the label. The cable harness pass through the engine cabin to the vehicle bottom , and motor input cable connect to the motor connection cable on both sides, and the fasten the cables on the vehicle body.

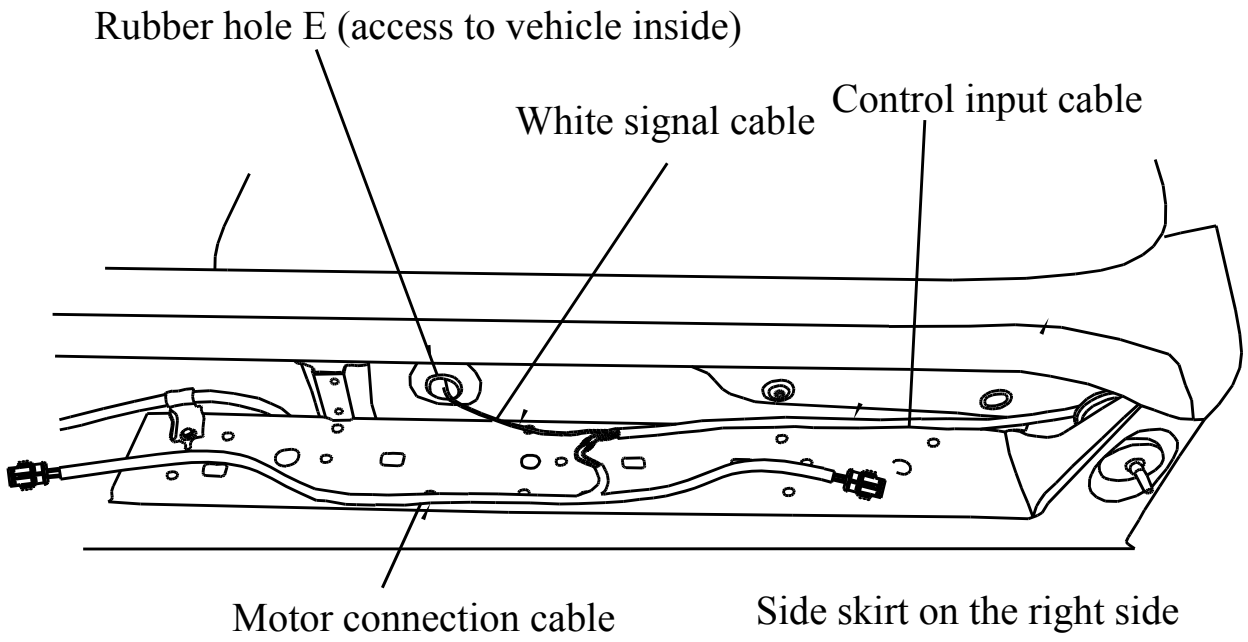


Figure 1

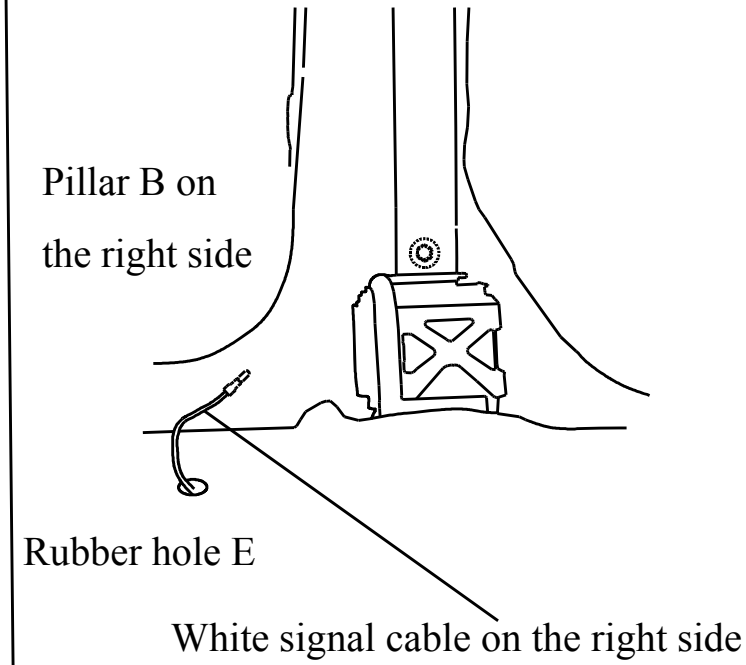
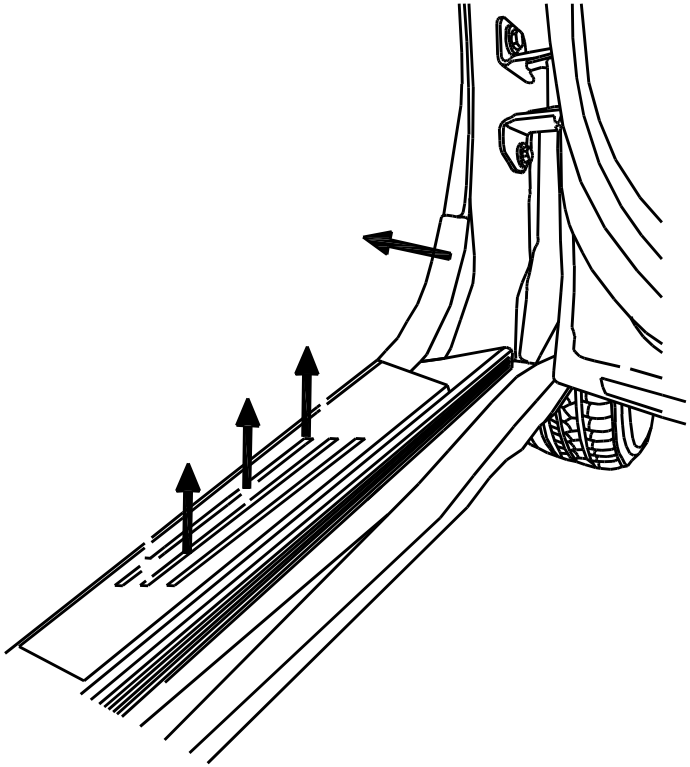
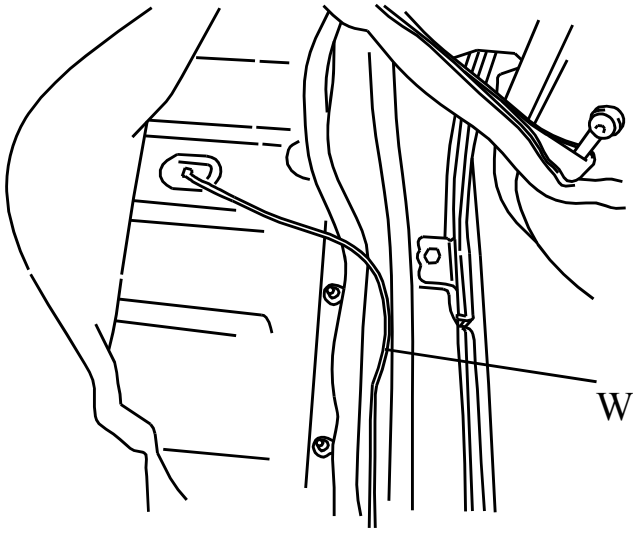


Figure 2

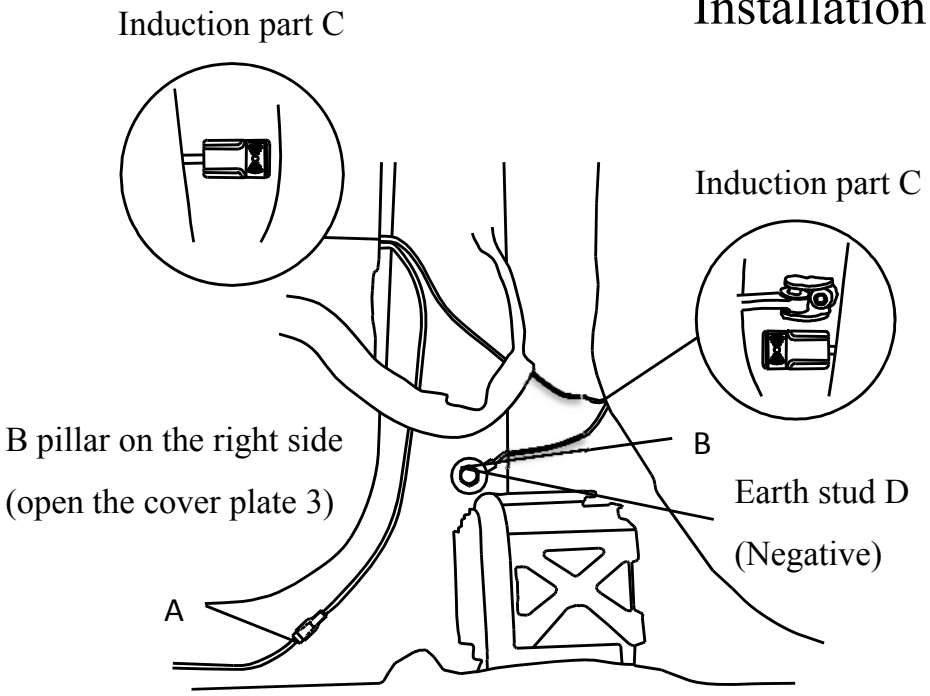
Step6： The arrangement of motor connection wire and signal wire : Arrange the motor connection wire along the beam as shown in the picture, the motor wire plug extends to motors of linkage ,As shown in Figure 1.Pass the white signal cable from the bottom of the car into the car,near the B-pillar,as shown in Figure 2.





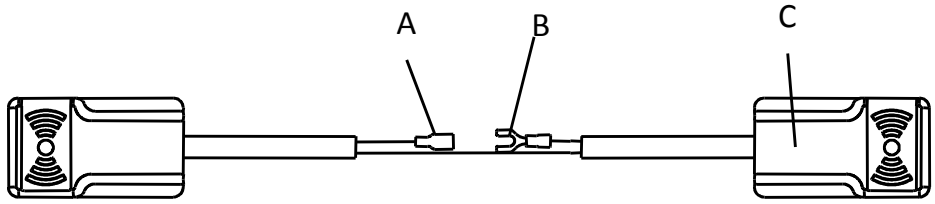
Step7： Connection of signal wire: Pry the sill panel and A-pillar panel on the left above . Pull the white signal wire into the vehicle through the rubber grommet of chassis on the right side.

Installation of Magnetic Inductor

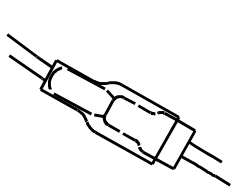


White signal cable on the right side

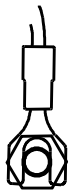
Step 8: Open the cover plate of B pillar, expose the above part (as shown above), connect the white signal cable to terminal A, loosen the earth stud D, connect terminal B to the earth stud D， and then tighten the earth stud. Stick the induction part C to the both side of pillar B (shown above picture), stick the magnet on the inside of vehicle door which is corresponding with induction part. The connection of driver side brown signal cable and cable harness induction are same as the installation of the passenger side.



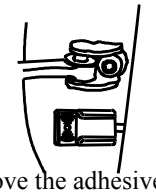
Cable harness induction



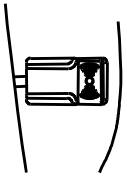
Insert the door signal cable into A.



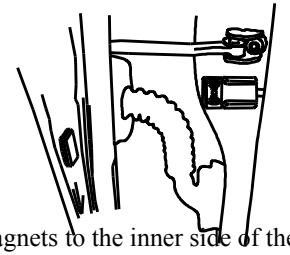
Tighten B and ground terminal of door pillars with nut.



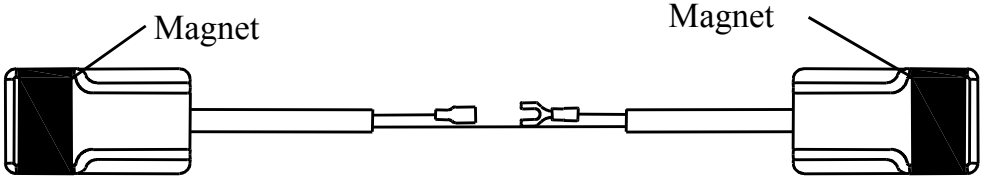
Remove the adhesive tape at the back of C, and stick one of its ends on one side of the door pillars.



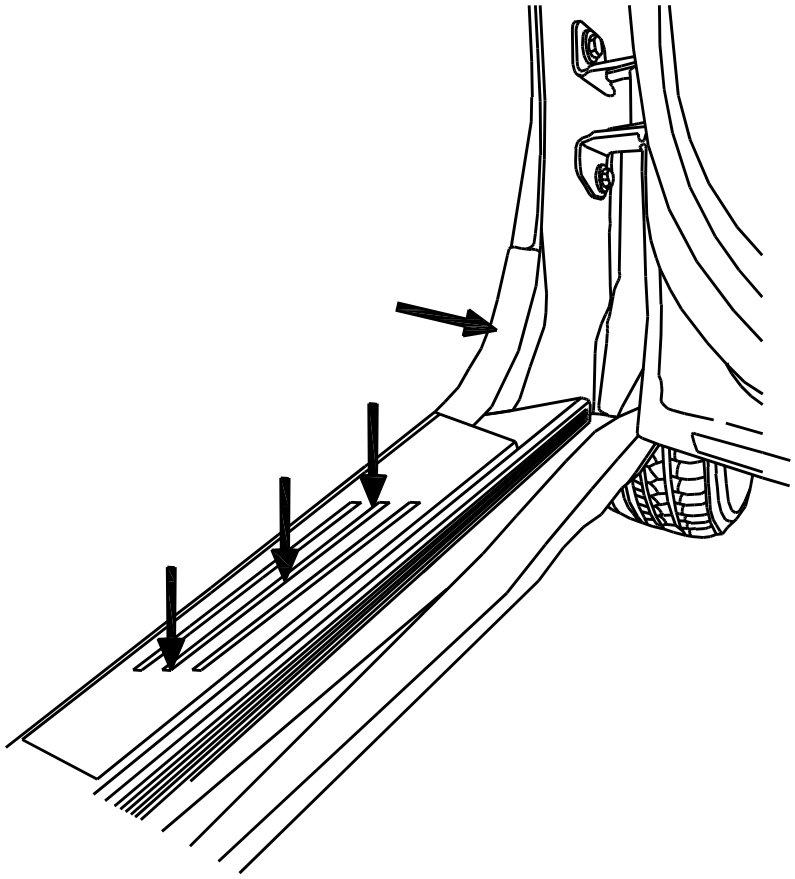
Stick the other end to the other side of vehicle door pillars.



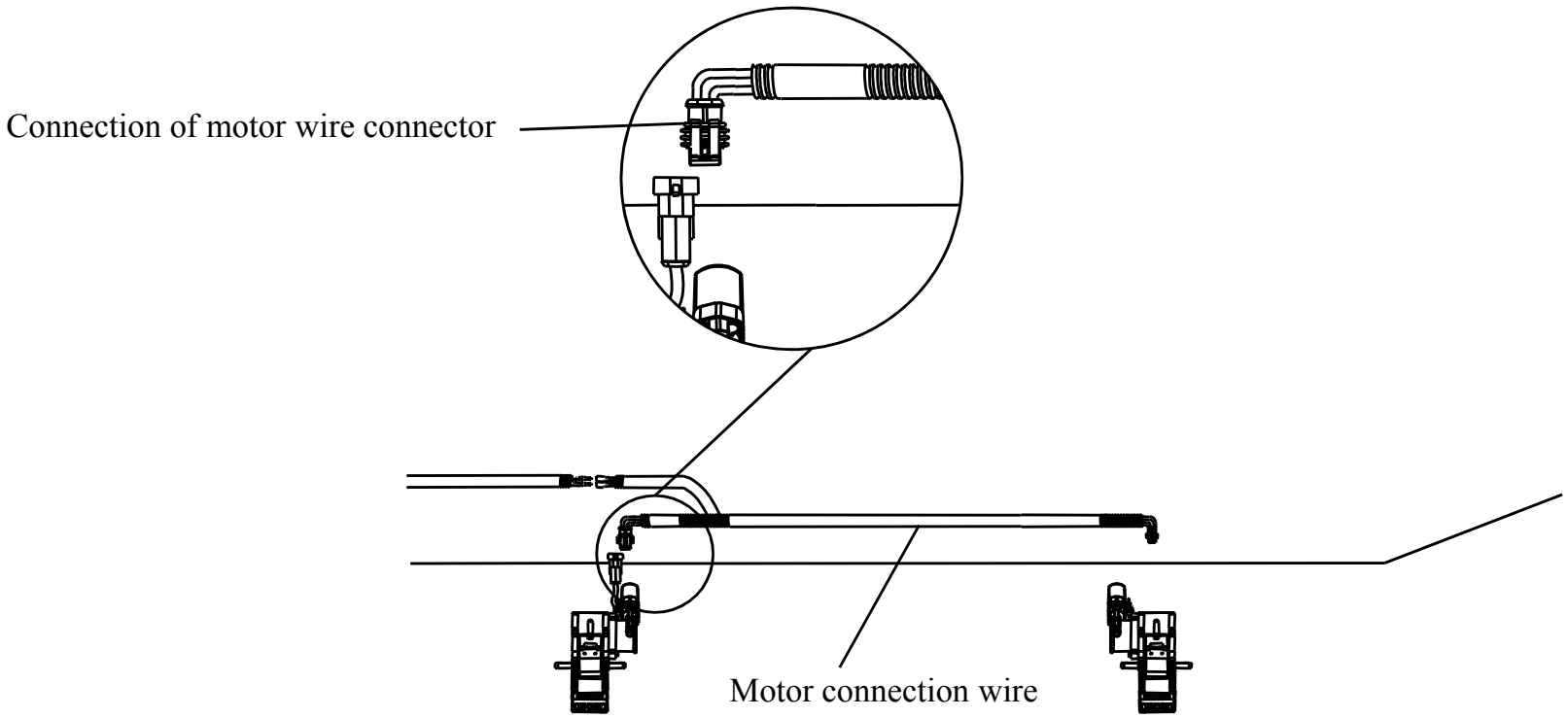
Stick the magnets to the inner side of the vehicle door and keep their position corresponding to C



Instruction：When close the door, the magnet corresponding position is as shown in picture.

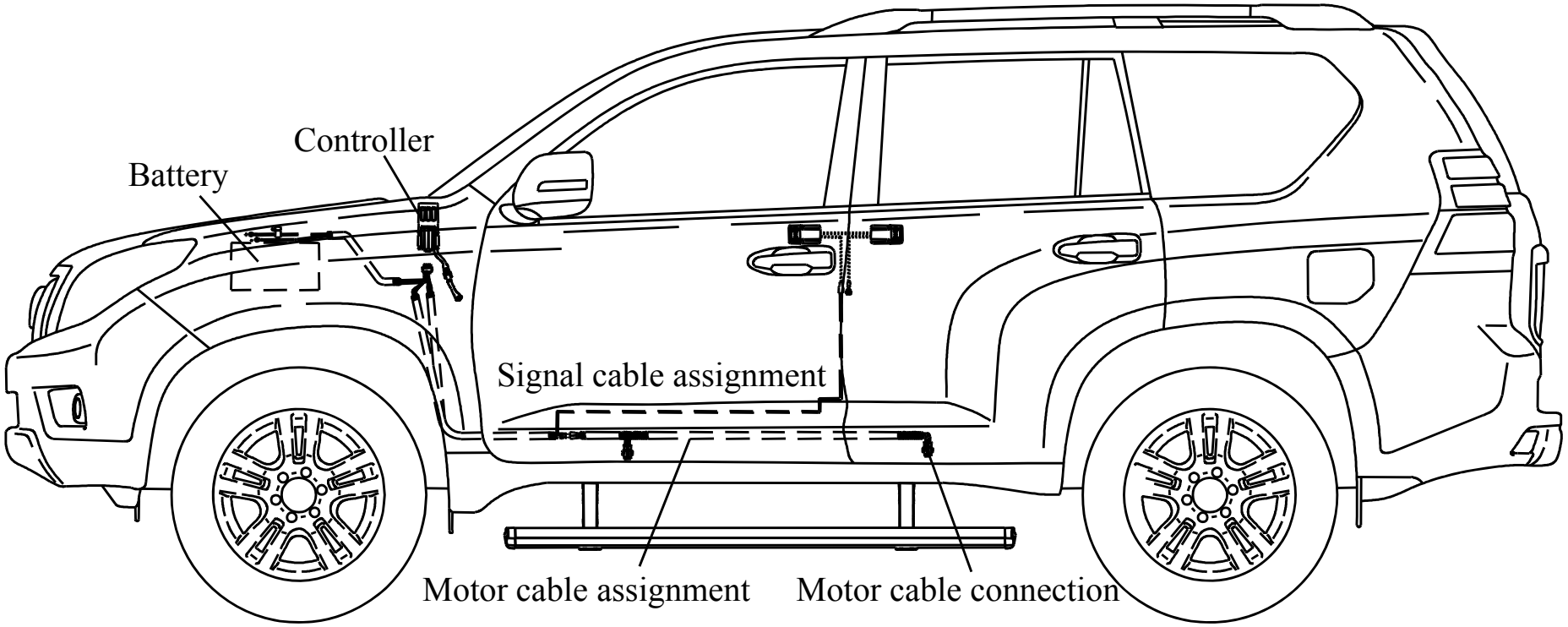


Step 9：Sort out the wire harness and close the panels. The installation of white signal wire on the left side is same with the right side .



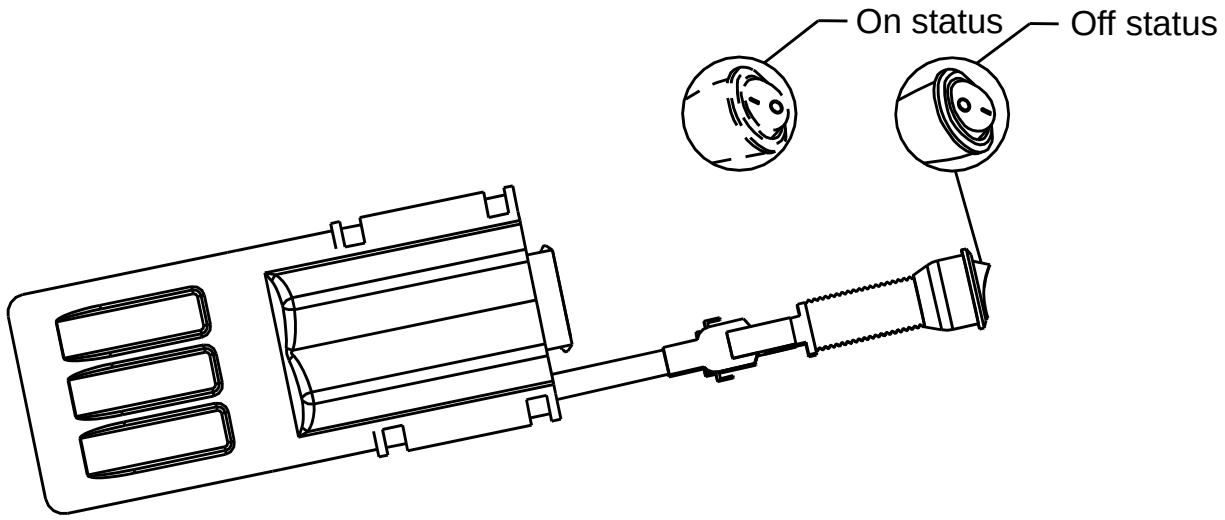
Step 10: Motor cable connection, connecting motor connection cable with control input cable and assign the cable along the vehicle beam. Note that the same color cable should be connected together. Fasten the cable on the vehicle beam by cable tie. Same cable installation is for the other side.

Summary of electric part



Step 11: 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.)

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 using condition of emergency switch:

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

III. Emergency switch using method:

1. Press emergency switch button, and the emergency switch is "on". And at the same time, the steps 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 cable connection and the bare part outside of the vehicle beam.	
	Inspect screws looseness of motor and power board .	
Special Case Inspection	Clean the sediment on time for power board and the linkages.	
	Clean the ice on time for power board and the linkages.	
Maintenance card		
The power board couldn't work normally when doors open and close	Electrical Malfunction	Fault connection of battery cable: recheck if you swap the battery's poles over, and if the fuse blow out.
		Fault connection of motor cable: recheck if all plugs are connected well.
		Fault connection of door signal cable: recheck the connection of cables according to the diagram.
		Fault of controller: if there is no problem for all cables, please contact our after sales service center.
	Mechanics Malfunction	The foreign material hinders the board work.
		The two mounting surface are not at the same level.

Note: Please contact us if any unknown trouble happened. We will solve it for you as soon as possible. Thank you!

T-MAX Product Warranty Instructions

Thank you very much for choosing our product!

I Maintenance Instruction
1、During warranty period, T-MAX will supply free maintenance for any malfunction related to the manufacturer. 2 years warranty after sales. For individual related faults, T-MAX provides paid maintenance.
2、T-MAX supply 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 faulty parts will belong to T-MAX（Hangzhou） Technology Co., Ltd.
5、The interpretation right 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 misusing or incorrect installation;
3、Fault caused by unprofessional maintenance staff's disassembly
4、Fault caused by force majeure ;
5、Fault, scratch and damage due to movement or falling
6、Fault caused by improper maintenance or misusing .

III、Precautions：
Electric power board is not recommended to be used during off-road to avoid board damage
The power board should be maintained after an off-road driving, to keep the good performance and life time;
Electrical parts: Check the control cable in T-MAX Terminal Services branch regularly;
Mechanical parts: should be cleaned up promptly when sediment appears on the board or board linkage;
Power board should be used frequently. The idle time should not exceed three months;
Power board needs to be maintained regularly in T-MAX terminal service branch;
Operate the power board at high temperatures is prohibited.
The end covers of power board are decorations and made of plastic, please don't tread.
Do not put thick foot pad or other sundries on power board to avoid the danger caused by wrong stepping.
After the initial installation, please check for looseness. Tighten screws if necessary. The power board will go to proper position after 3-5 cycles opening and closing the vehicle door. And then please check it regularly.
11、How to exclude unexpected failures of power board?
The power board couldn't work normally when vehicle door open and close
① Electrical faults: cable connection failure, door signal cable failure, controller failure, motor cable failure, motor failure; Please go to local T-MAX Terminal Services branch to detect and repair.
② Mechanical faults: the foreign material hinders the board work; two mounting surface are not at the same level; please go to local T-MAX Terminal Services branch to detect and repair.

The power board is not quick in action: it is door signal cable failure. Please go to local T-MAX Terminal Services branch and check cable connection according to diagram.

Warranty card

Product Type		**User Name**	
Product Name		**Tel**	
Factory Number		**Address**	
Date of Purchase			
Shop of Purchase			

Maintenance records

Date	Fault Description	Fault Reasons	Result	Note

E-BOARD®

Produced by
T-MAX(HANGZHOU)TECHNOLOGY CO.,LTD

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