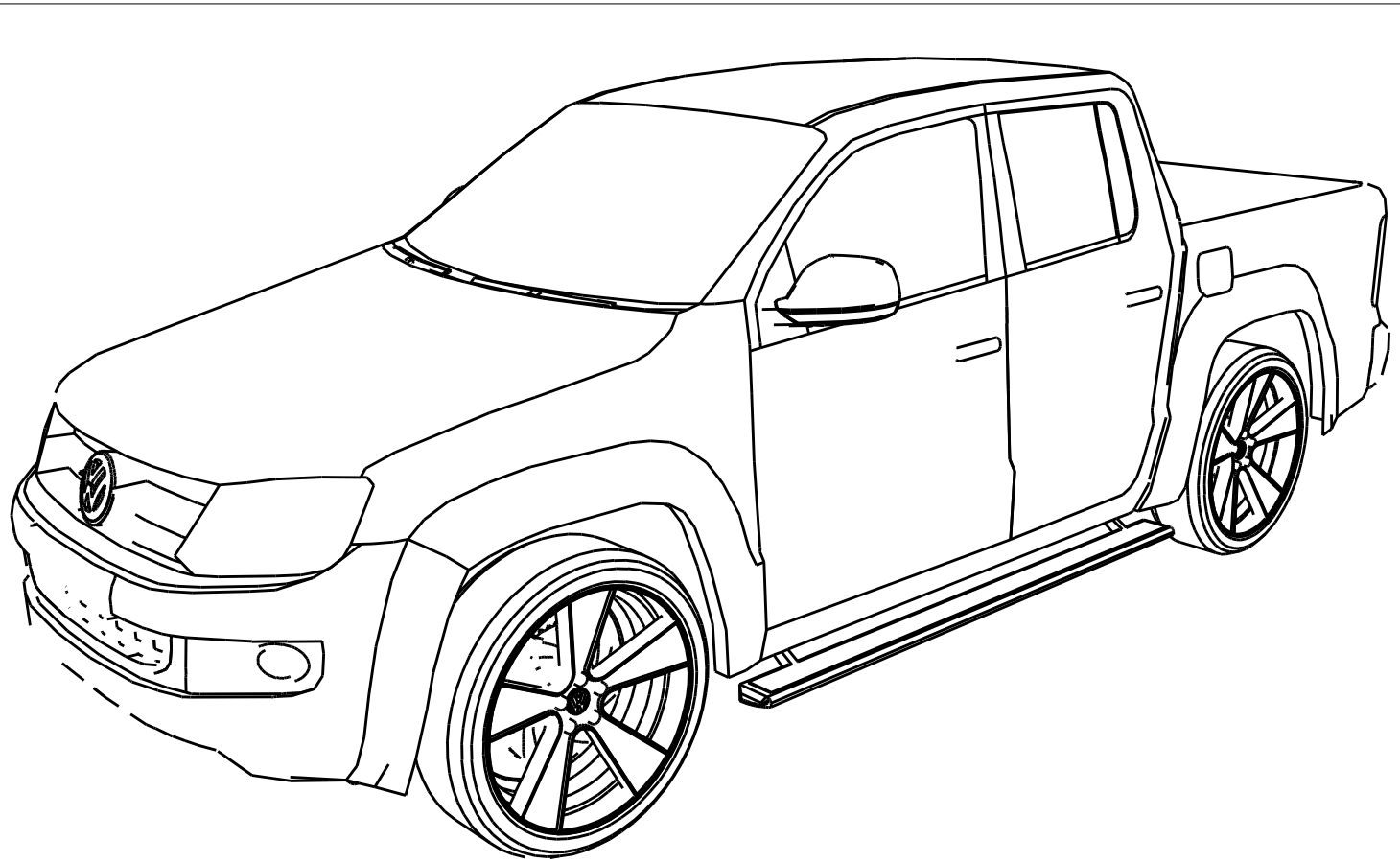
E-BOARD

Volkswagen Amarok POWER BOARD

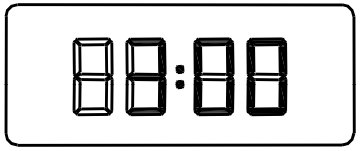


APPLICATION： Volkswagen Amarok 2009-UP

Volkswagen Amarok POWER BOARD

INSTALLATION GUIDE

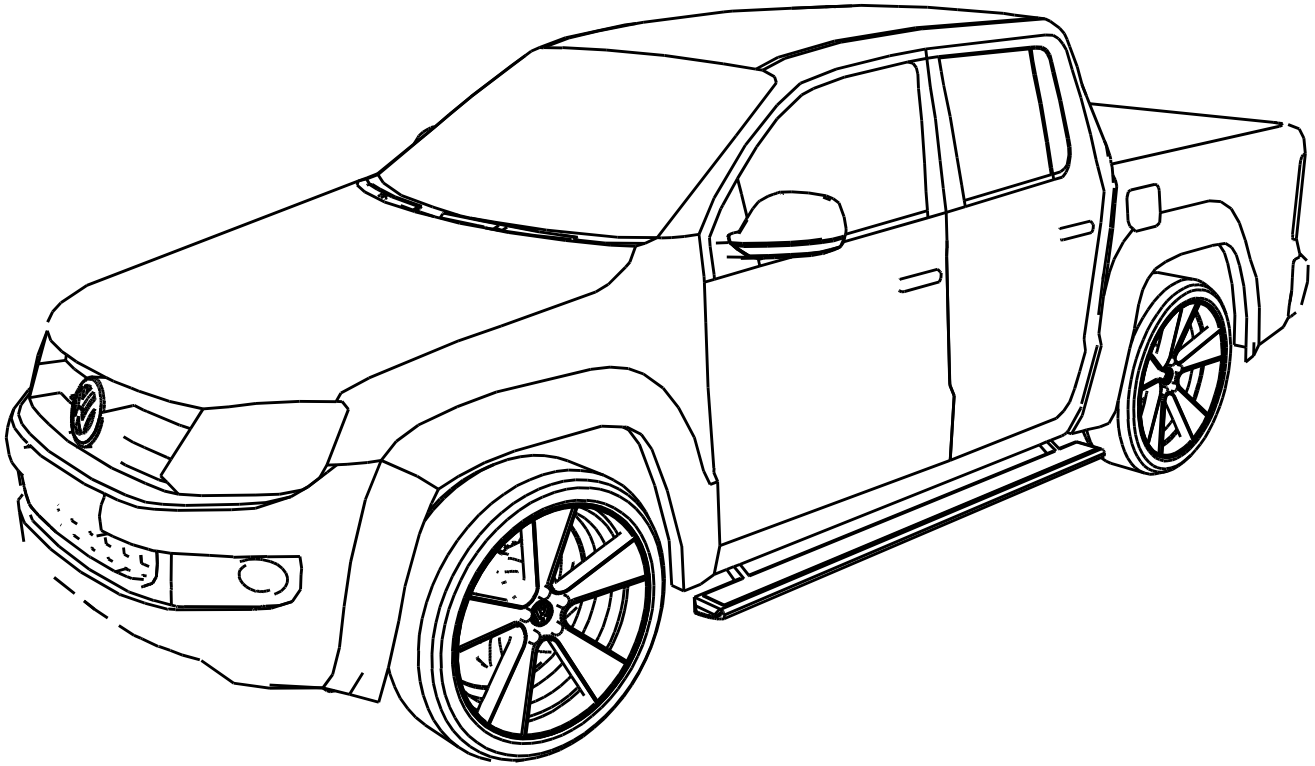
INSTALLATION TIME



Product Number： PST05-2210
PST05-2230

Tools Required:

① 5mm Hex Key Wrench (Allen Wrench)
② 12mm Socket Spanner
③ 13mm Socket Spanner
④ 12mm Open Spanner
⑤ Pry Card
⑥ Cable Stripper/Cutter
⑦ Electrical Tap
⑧ Screw Driver



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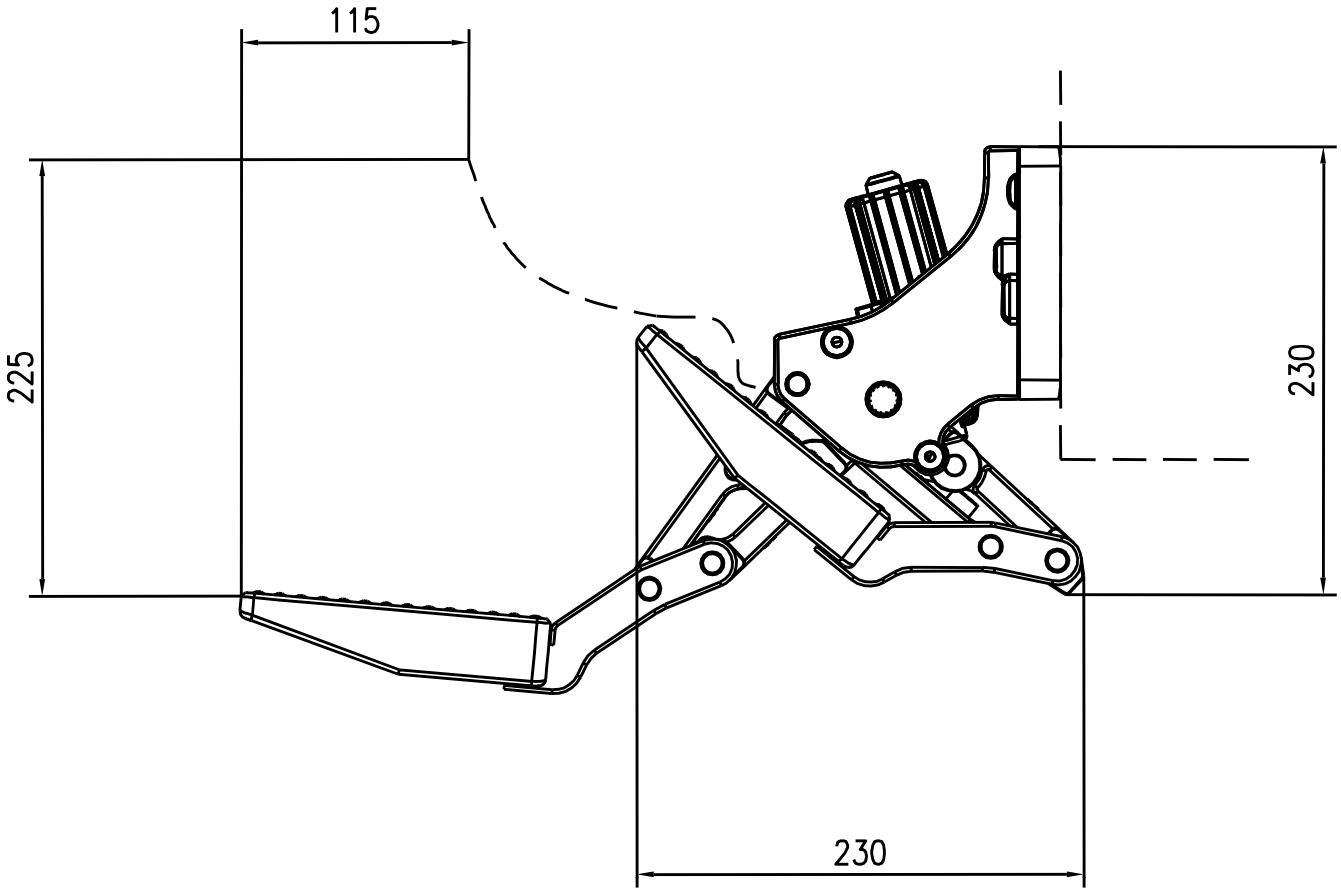
The product is developed and produced by T-MAX, and the related patents are blow.
Patents:US8,469,380;US9,656,609;US9,308,870;US9,688,205;US9,669,766

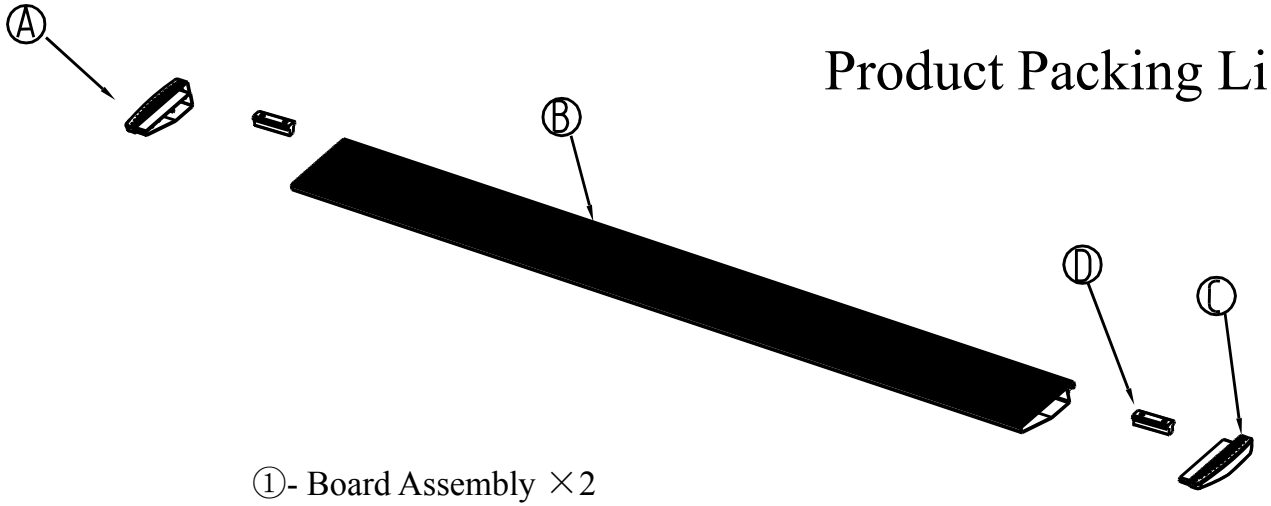
Product Technical Specification



Rated Voltage: 12V
Specified Load: ≤300kg
Gross Weight: 21kg
Forward Extension Length: 115mm
(Horizontal distance between the edge of power board and the vehicle door when the board extends)
Board falling dimension : 225mm
(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 errors, manufacturing errors of vehicle bottom and etc.,)

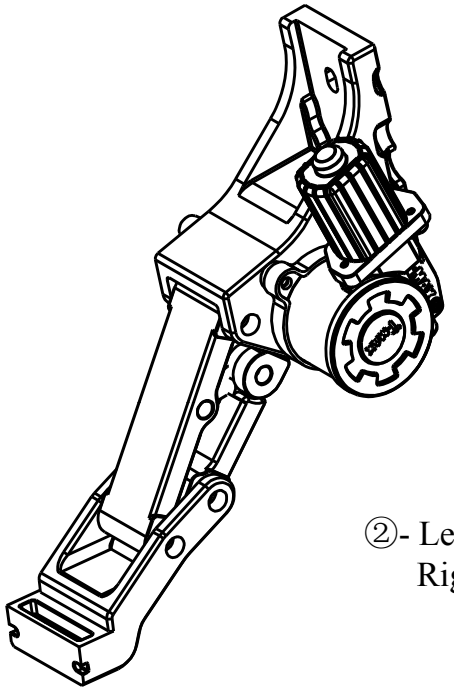
Note：Impact load is not allowed.
Please make sure the children and the aged will keep 20cm safe distance while power board is working to avoid any bump or jam.

Product Packing List

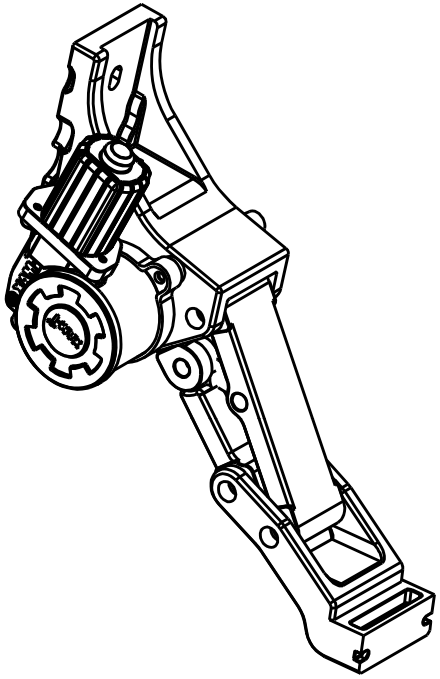


①- Board Assembly ×2
6154100.3

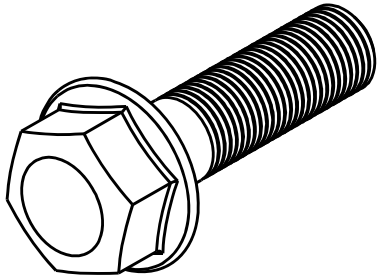
（A）6126100.3-3L Left End Socket54（×1）
（B）6154100.2-1 Board （×1）
（C）612600.3-3R Right End Socket54 （×1）
（D）6126100.3-3 T-nut（×2）



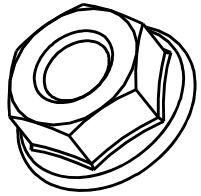
②- Left Front Motor Linkage ×1
Right Rear Motor Linkage×1
6154100.1L



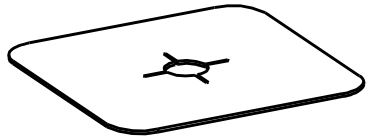
③- Left Rear Motor Linkage ×1
Right Front Motor Linkage ×1
6154100.1R



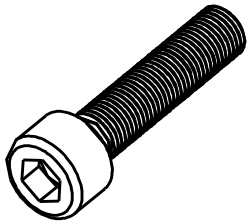
④- Hexagon Flange Bolt ×8
QC/T340-1999 M8×25



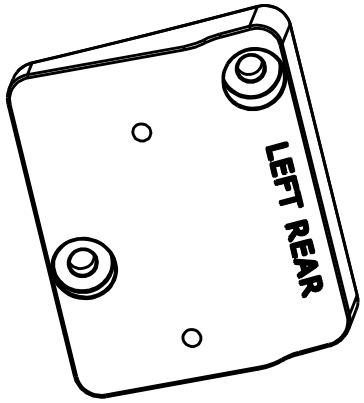
⑤- Hexagon Flange Nut ×8
GBT 6177.1-2000 M8



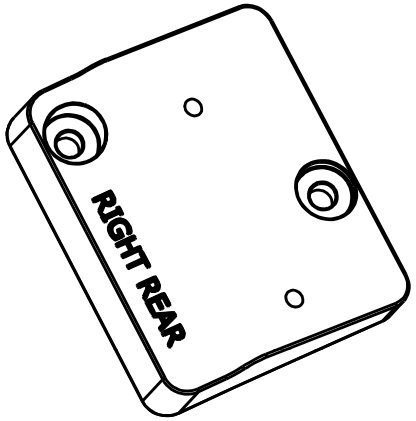
⑥-M8 Lock Washer×8
6154100.0-3



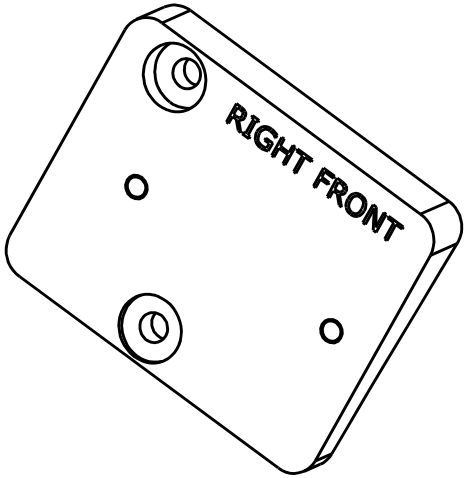
⑦- Socket Cap Screw ×8
GB/T70.1-2000 M6×25



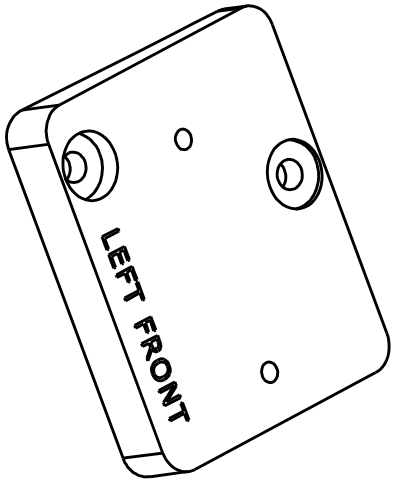
⑧- Rear Mounting Plate L×1
6154100.0-4L



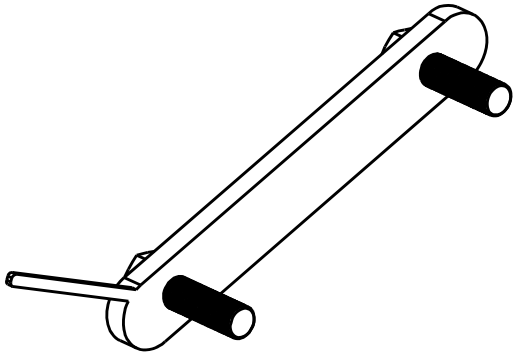
⑨- Rear Mounting Plate R×1
6154100.0-4R



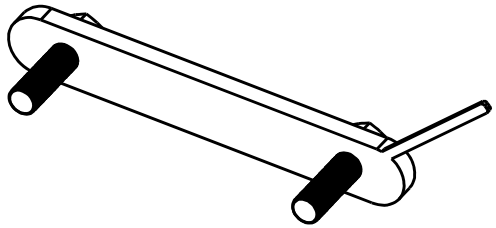
⑩-Mounting Plate 2-L×1
6154100.0-5L



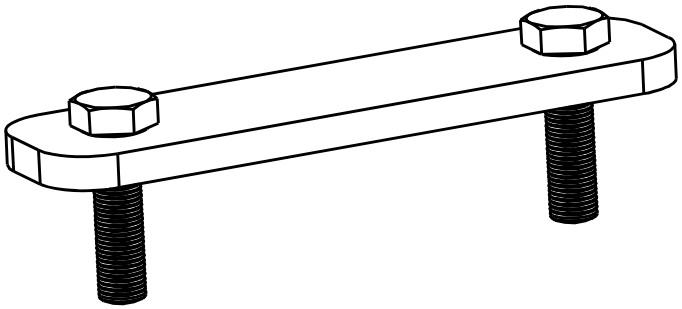
⑪ - Mounting Plate 2-R×1
6154100.0-5R



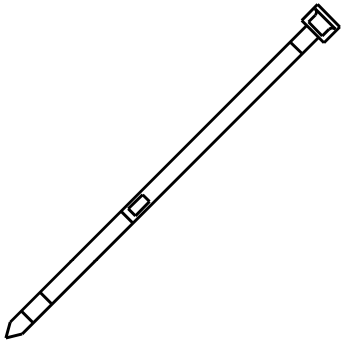
⑫ - Front Mounting Nut 54L×1
6154100.0-1L



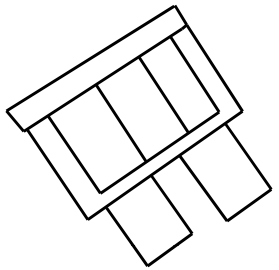
⑬ - Front Mounting Nut 54R×1
6154100.0-1R



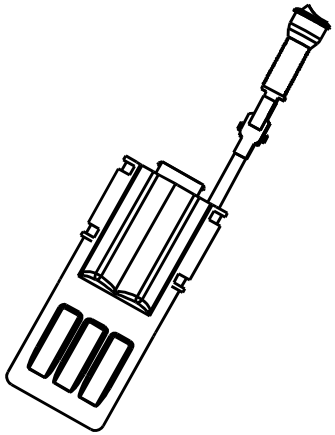
⑭ - Rear Mounting Nut 54×2
6154100.0-2



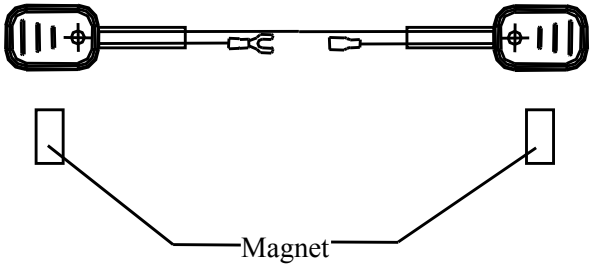
⑮ - Cable Tie ×25
GB/T22344-2008 5×300



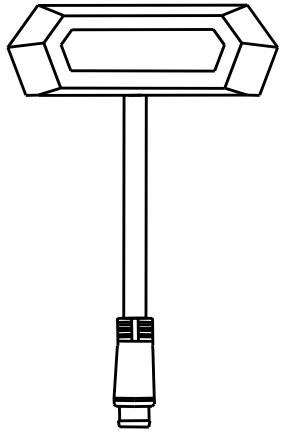
⑯ - Fuse ×2



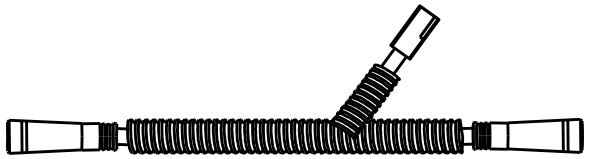
⑰ - Controller Assembly 54×1
6124100.4.4



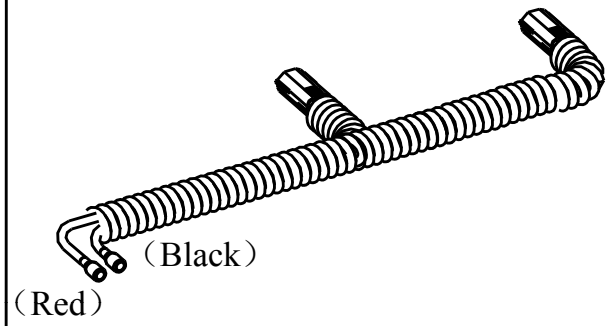
⑱ - Wired Magnetic Induction Module ×2
-Magnet×4



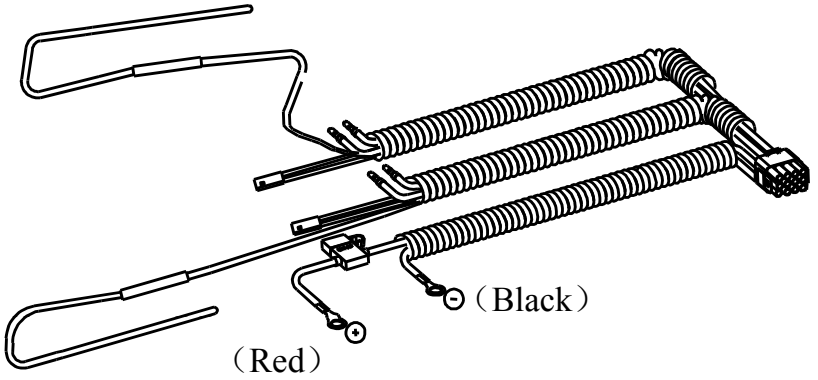
⑲ - LED Light Belt Module ×4
6161100.4.8
（Optional）



⑳ -Light Belt Connection Cable54×2
6154100.4.1
（Optional）

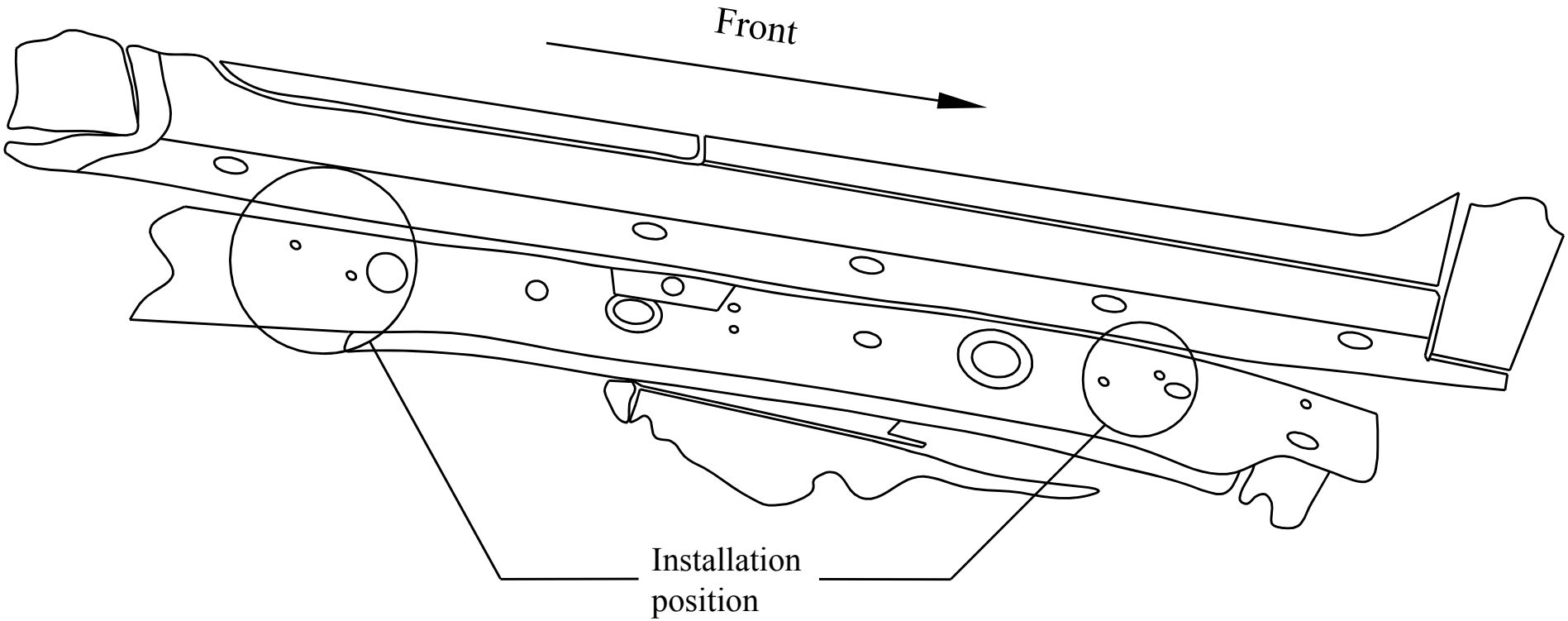


㉑ - Motor Connection Cable 54×2
6154100.4.3



㉒ - Control Input Cable 54×1
6154100.4.2

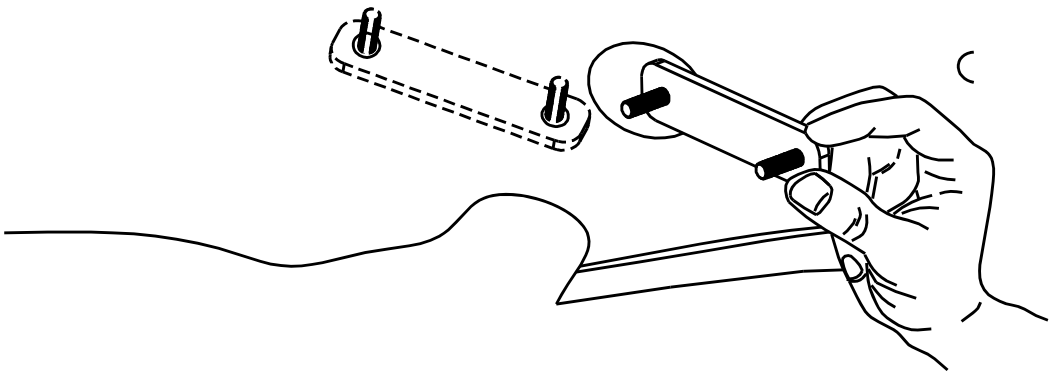
Mechanical Installation



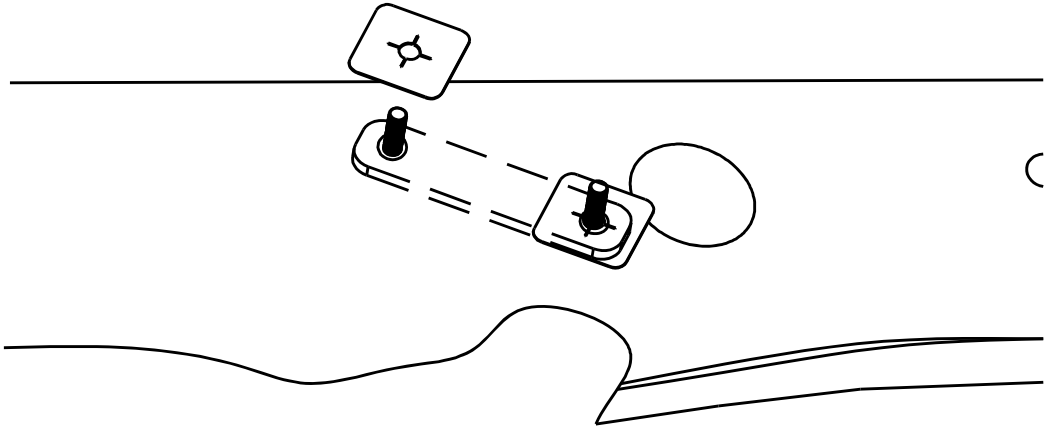
Installation Position On the Right Side

As shown in the picture, these are the two installation positions on the right side of the vehicle, and the installation mode of the front and rear linkage are similar .

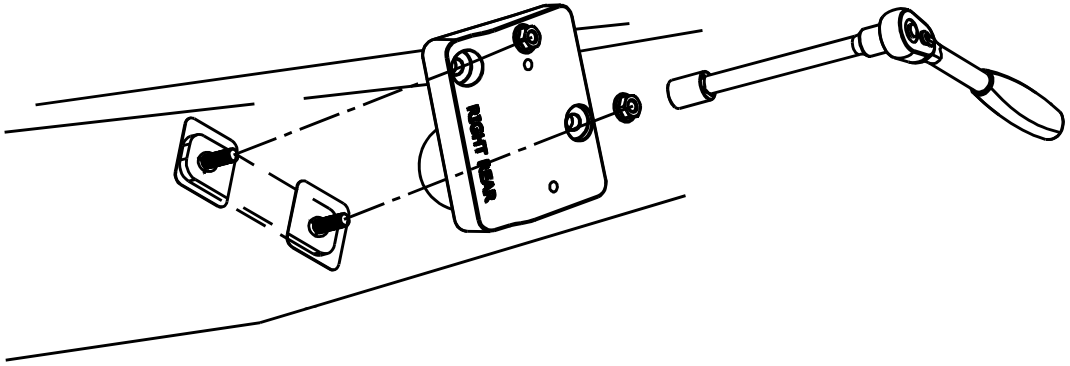
Right Rear Motor Linkage Installation



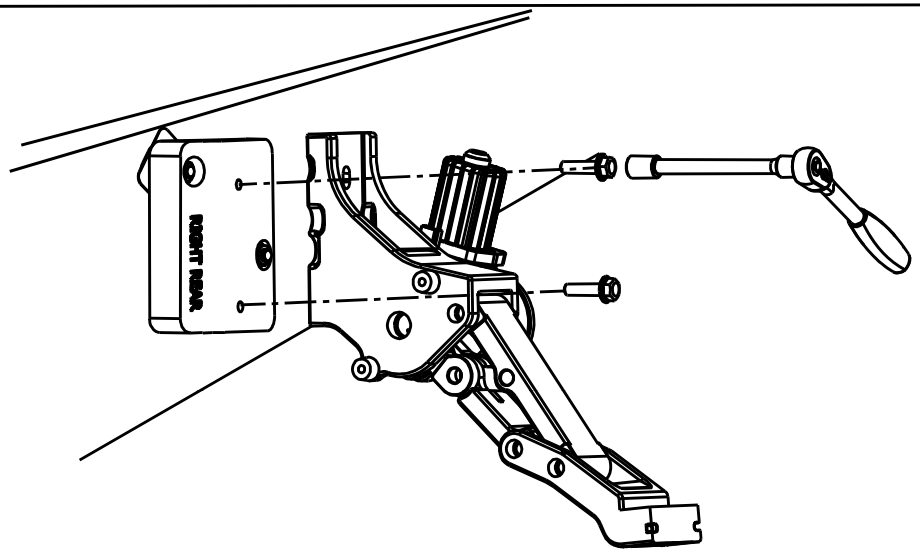
Step 1: Put in the rear mounting nut 54 through the hole in the beam, then get the bolts through the two holes which are corresponding to the beam.



Step 2: Put the M8 lock washers on the two bolts.

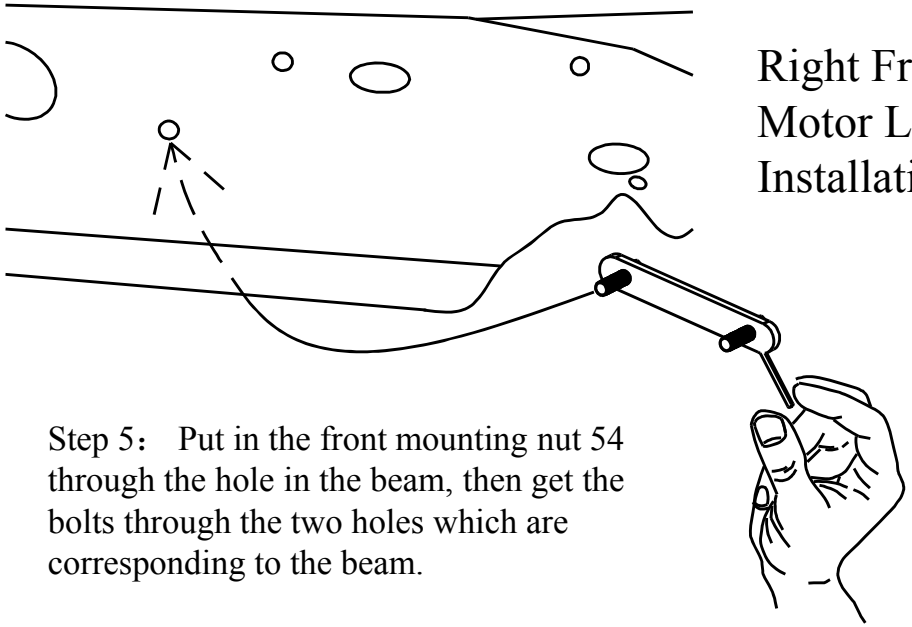


Step 3: Install the rear mounting plate R, then screw hexagon flange nut and tighten it (Tighten Torque 30 Nm).

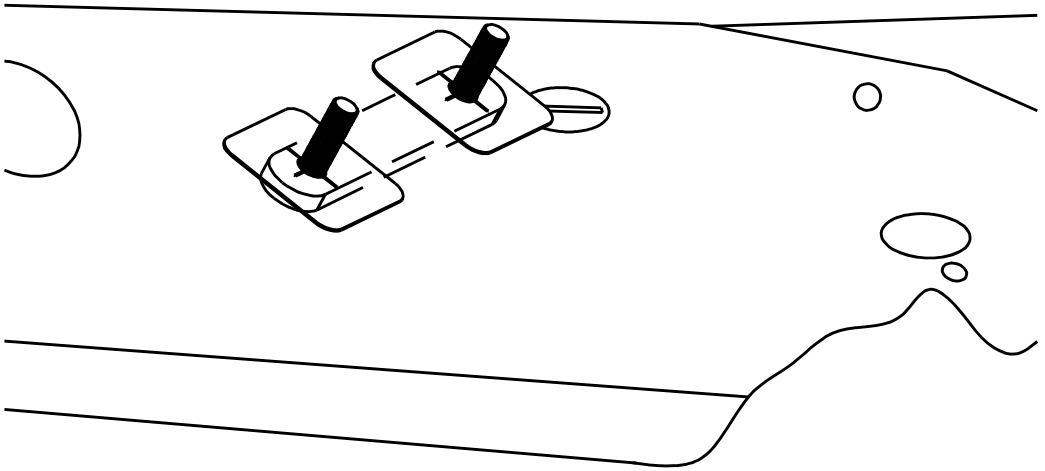


Step 4: Install the motor linkage ,then screw hexagon flange bolt and tighten it (Tighten Torque 30 Nm).

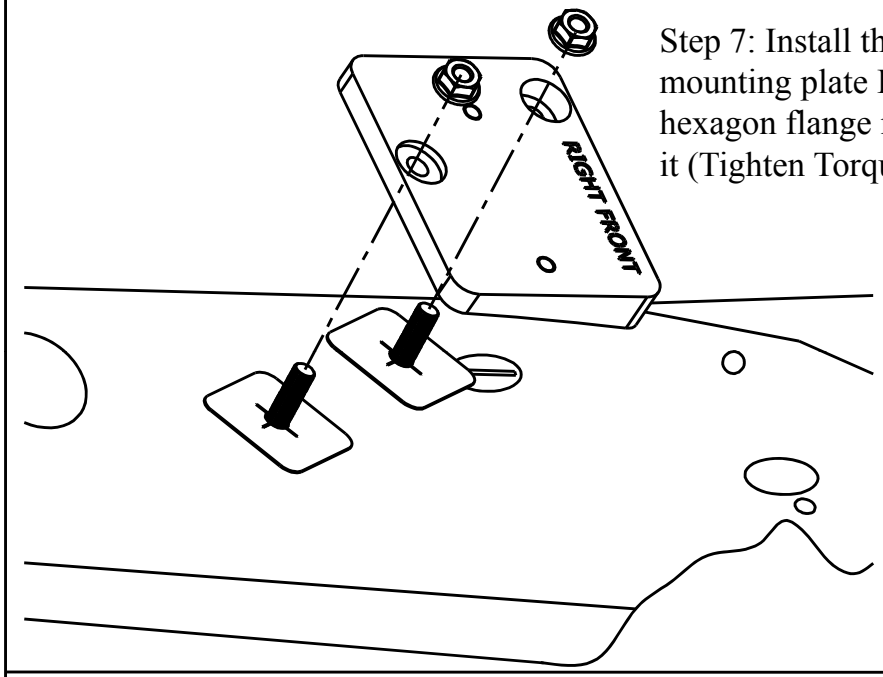
Right Front Motor Linkage Installation



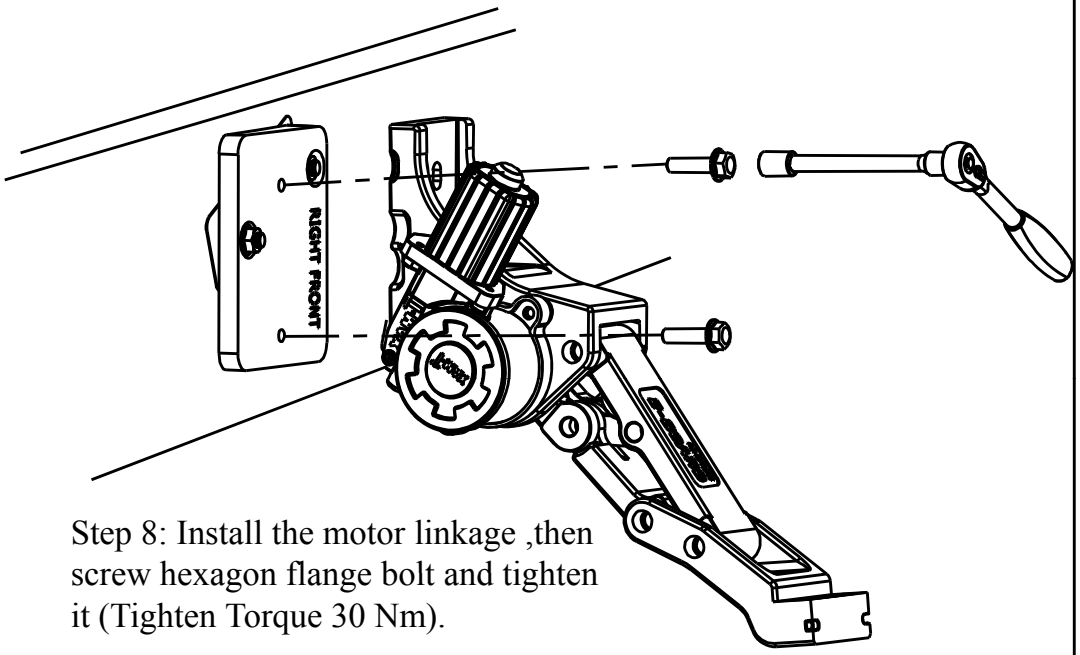
Step 5： Put in the front mounting nut 54 through the hole in the beam, then get the bolts through the two holes which are corresponding to the beam.



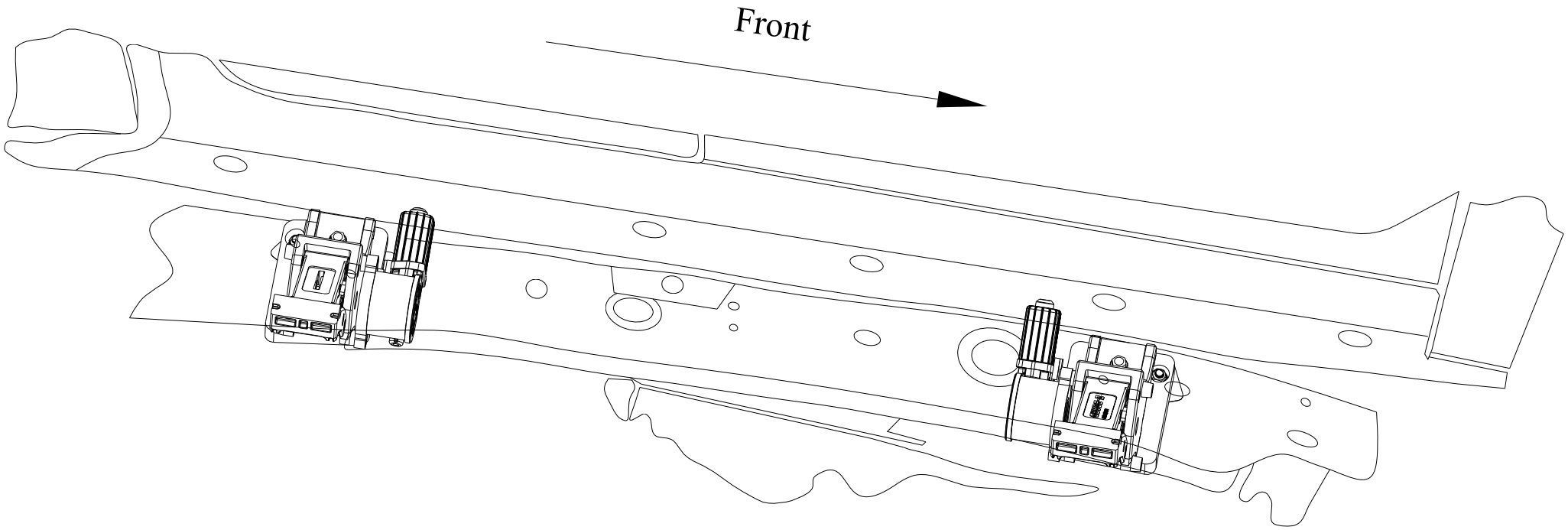
Step 6: Put the M8 lock washers on the two bolts.



Step 7: Install the front mounting plate R, then screw hexagon flange nut and tighten it (Tighten Torque 30 Nm).

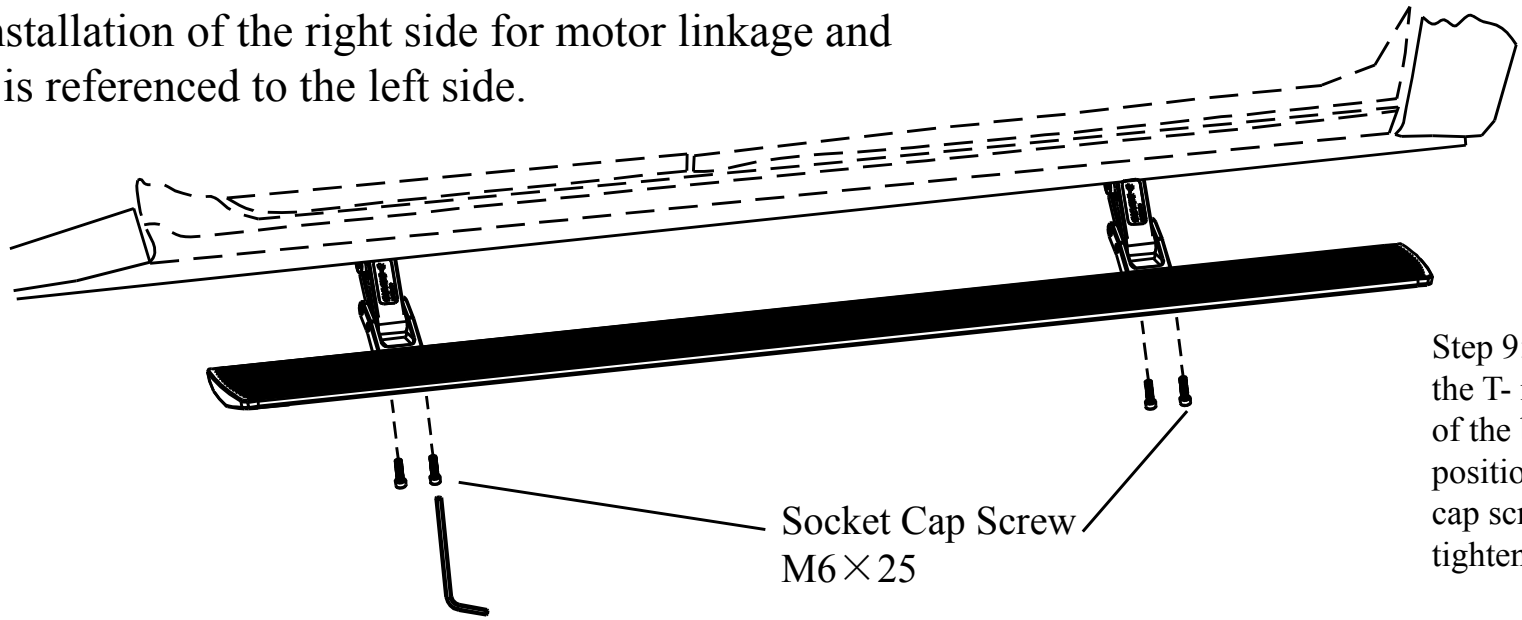


Step 8: Install the motor linkage ,then screw hexagon flange bolt and tighten it (Tighten Torque 30 Nm).

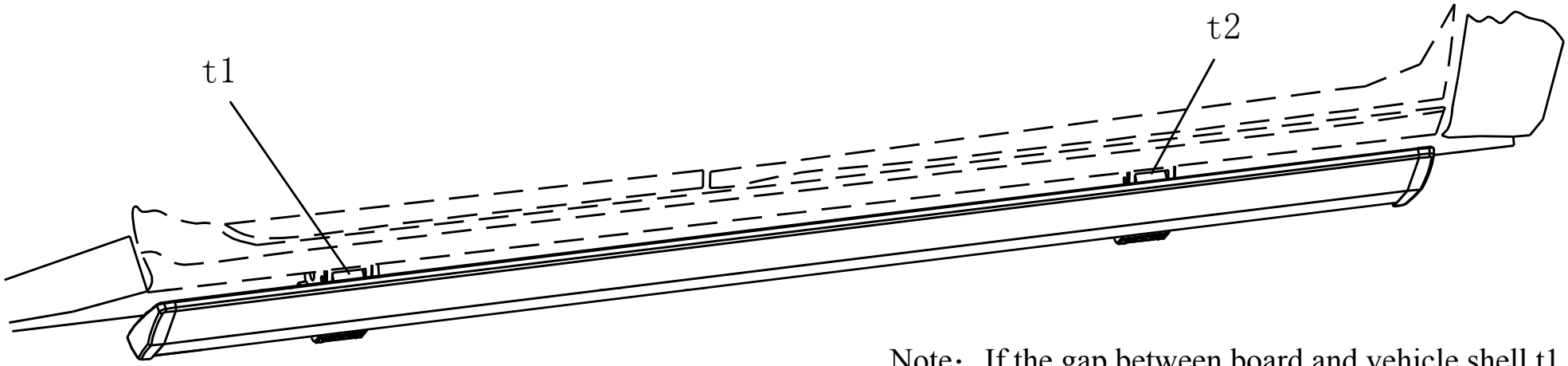


As shown in the picture ,it’s the status of motor linkage installing completely on the right side of the vehicle.

The installation of the right side for motor linkage and board is referenced to the left side.

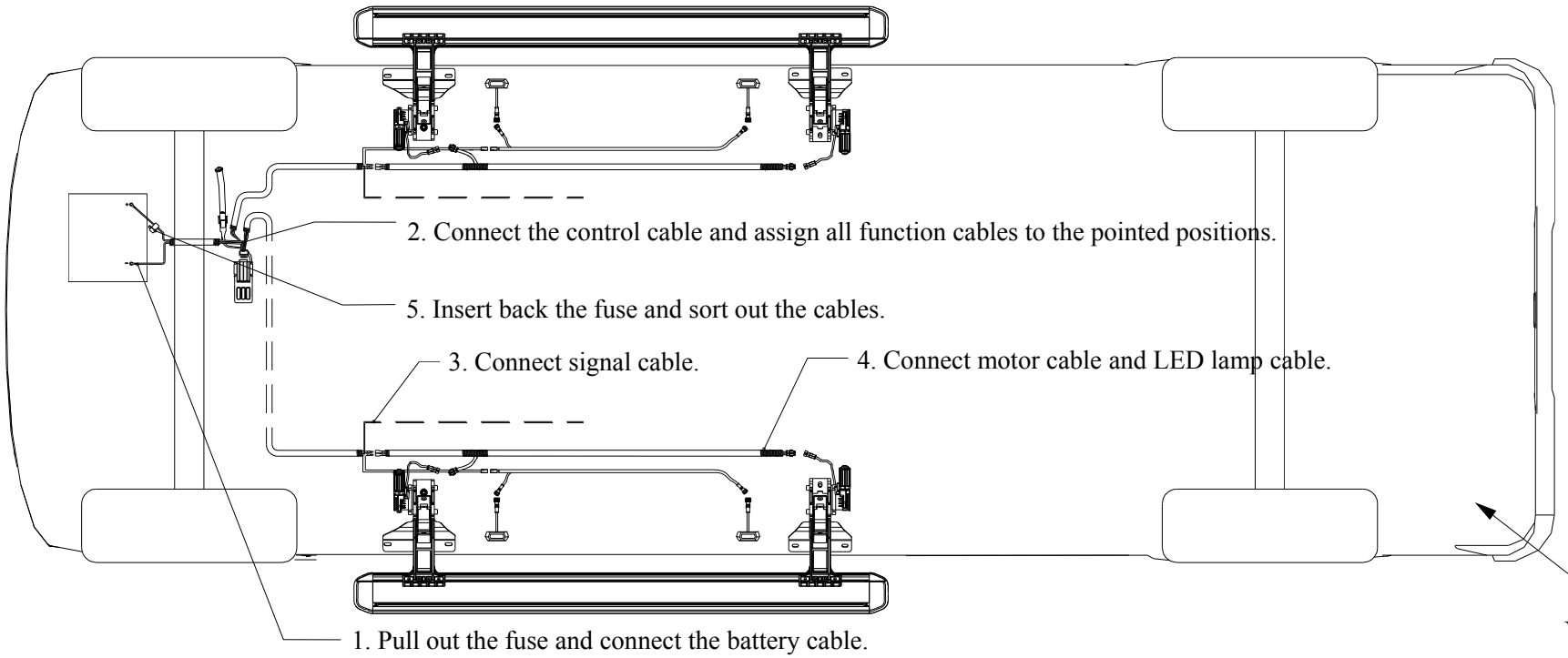


Step 9: Install the board and adjust the T- nut to make the two end faces of the board reach to an appropriate position. Then use M6×25 socket cap screws for connecting and tightening (Tighten torque 12Nm).

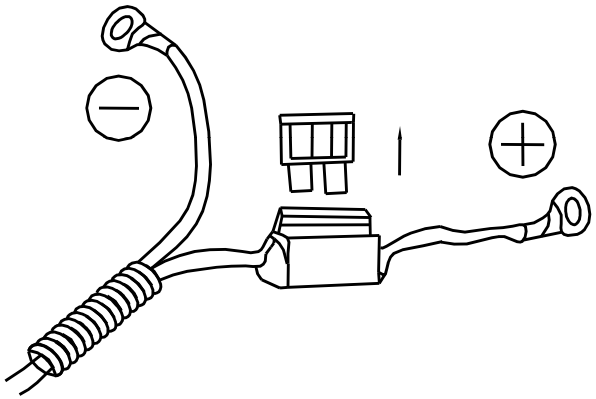


Note：If the gap between board and vehicle shell t1 is close to t2 at the status of getting back, and the gap is not more than 13mm, then the board is installed successfully.

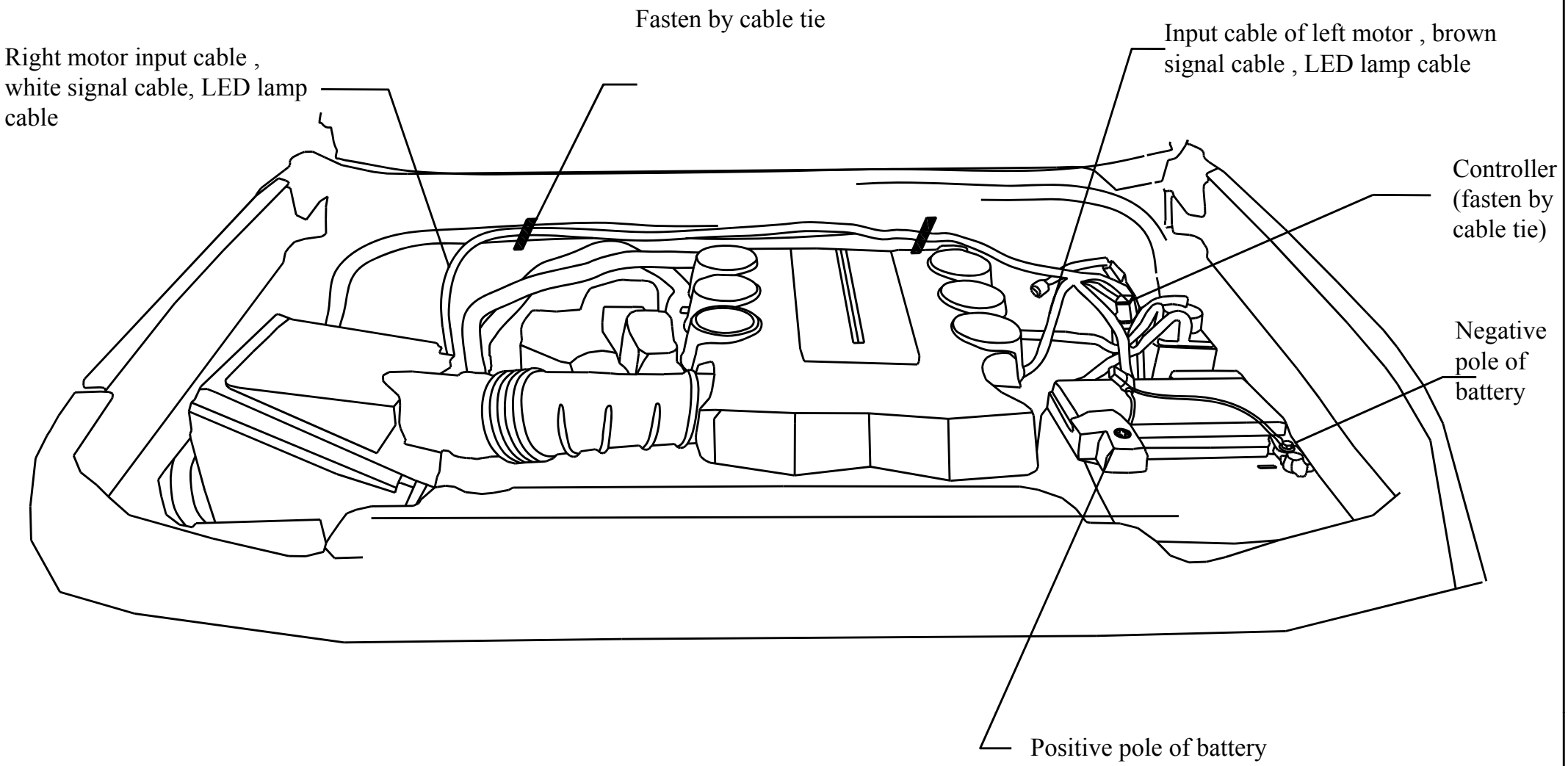
Electric Installation of Wired Magnetic Control Mode



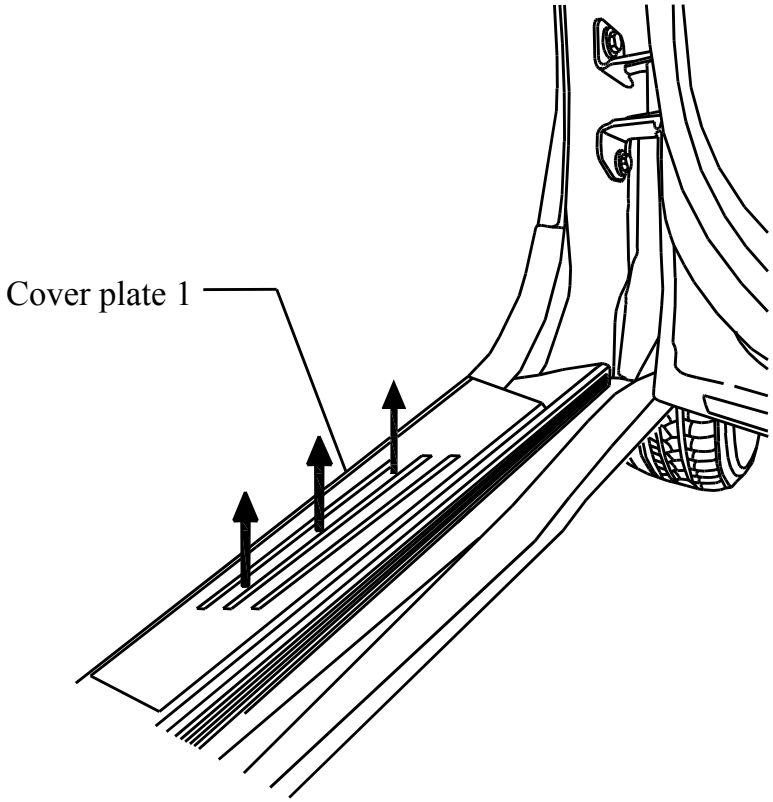
（The instruction is mentioned for the LED type. The installation for the basic type is basically similar to LED type，but the only difference is without LED lamp.）

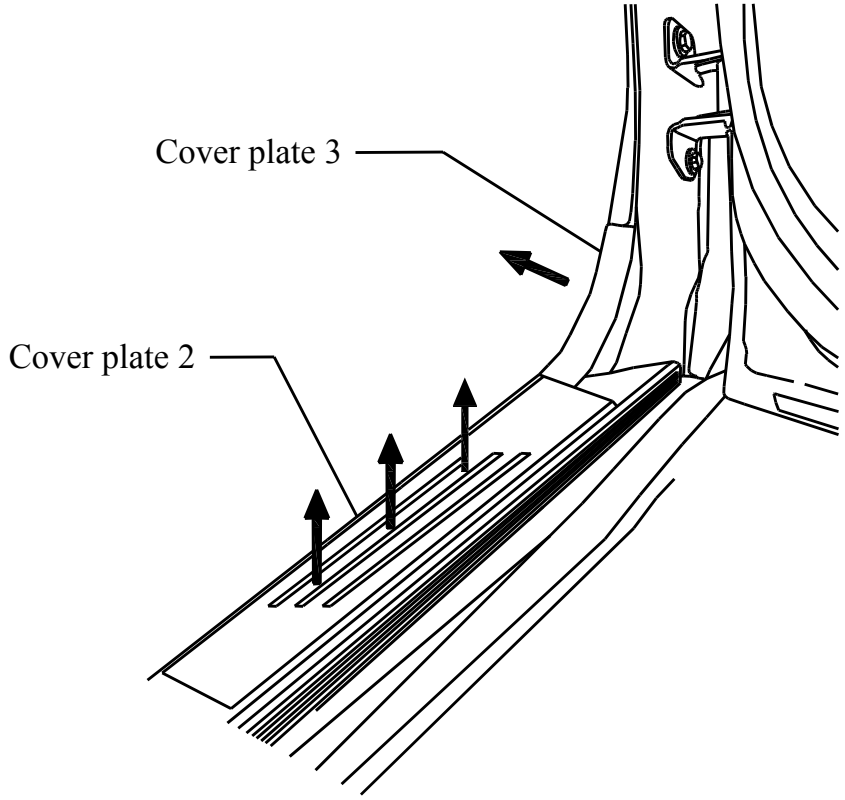


Step 10: Find out the control input cable and pull out the fuse (ensuring circuit safety during installation) and connect the positive and negative pole of cable harness to vehicle battery respectively.
Note: Battery cable can not be modified privately.



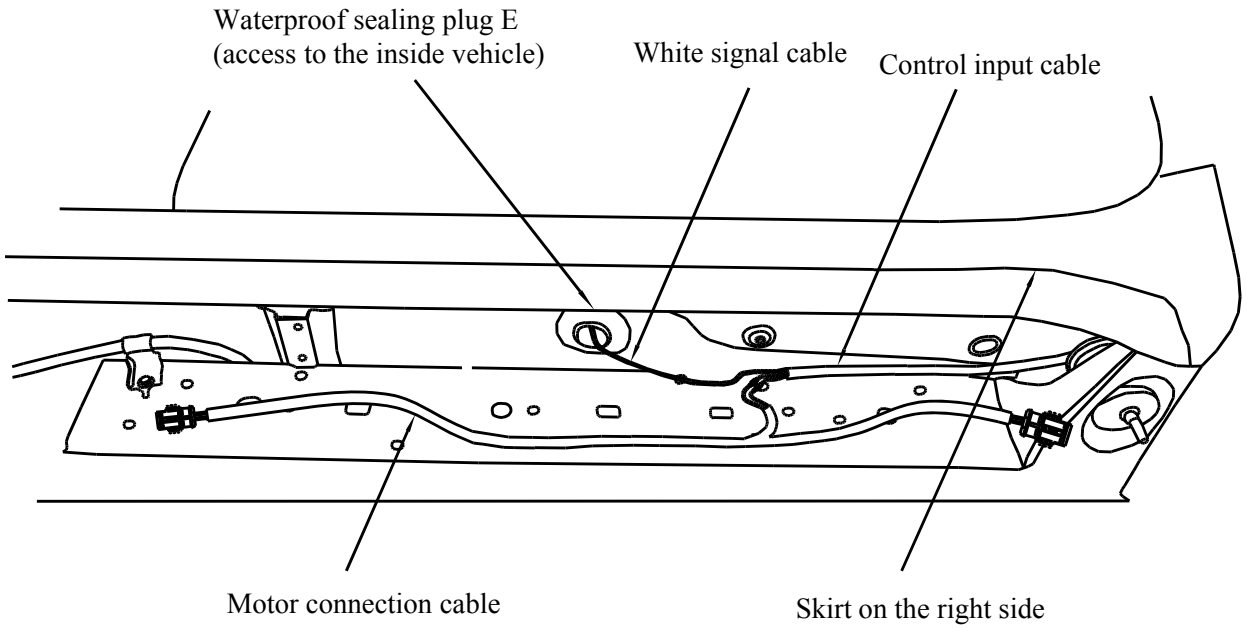
Step11：Fasten the controller assembly using the cable tie. Arrange the cables as shown in the picture， connect the motor input cable with the motor connection cable of front and rear motor linkage , and fasten the cable harness onto the vehicle body .



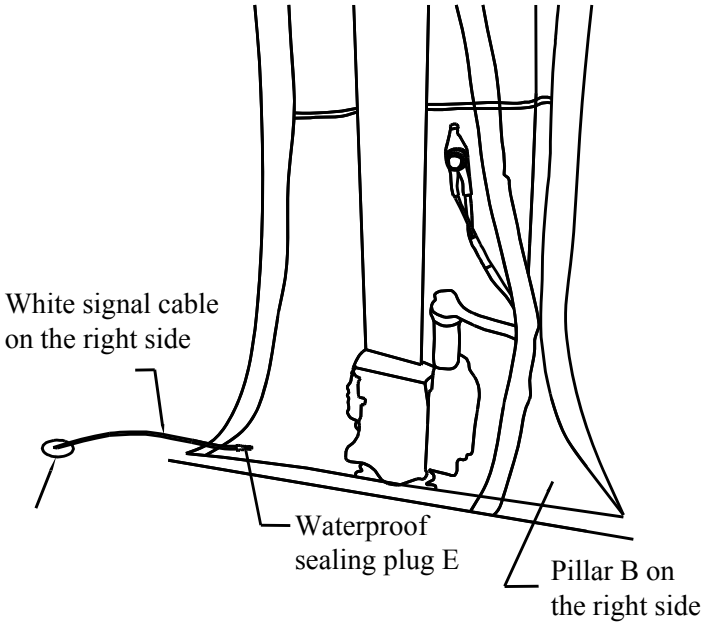


Step12: Connection of signal cable: Pry the cover plate 1, 2 and 3 as shown above . Follow the operation sequence as the picture ① and ② shown, pull the white signal cable through the waterproof sealing plug on the vehicle bottom to the inside vehicle, then get it to the pillar B. The arrangement of brown signal cable on the left vehicle bottom is same as the white signal cable.

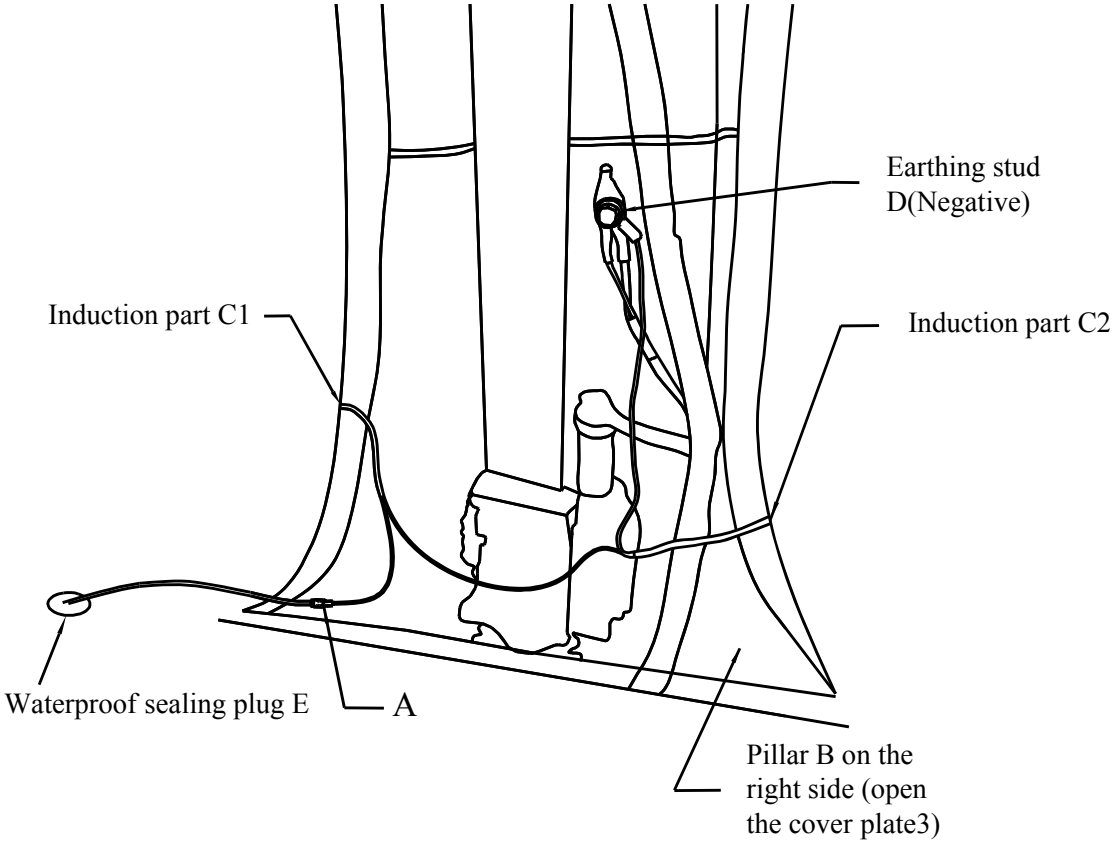
①


Waterproof sealing plug E
(access to the inside vehicle)
White signal cable
Control input cable
Motor connection cable
Skirt on the right side

②

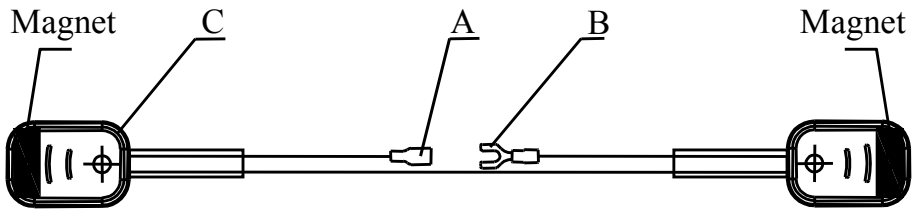

White signal cable
on the right side
Waterproof
sealing plug E
Pillar B on
the right side

Instruction of wired magnetic control installation

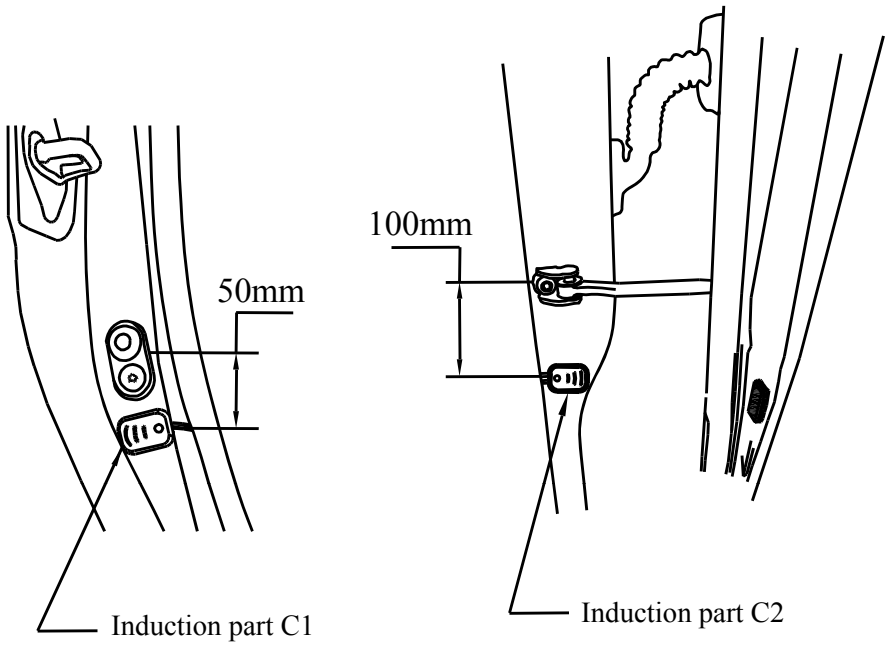


Step 13:Open the cover plate of pillar B on the right side of the vehicle , expose the above part (as shown above), connect the white signal cable to terminal A of cable harness magnetic inductor , loosen the earthing stud of pillar D , insert fork type terminal B into the earthing stud , and then tighten the earthing stud. Arrange the induction part C to the both side of pillar B, stick the magnet on the inside of vehicle door which is corresponding with induction part. The connection of brown signal cable on the left side and cable harness magnetic inductor are same as the arrangement of the right side.

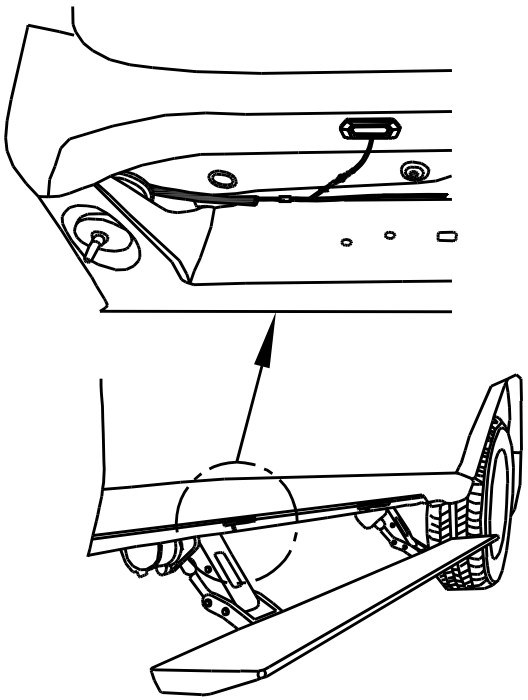
Cable Harness Magnetic Inductor

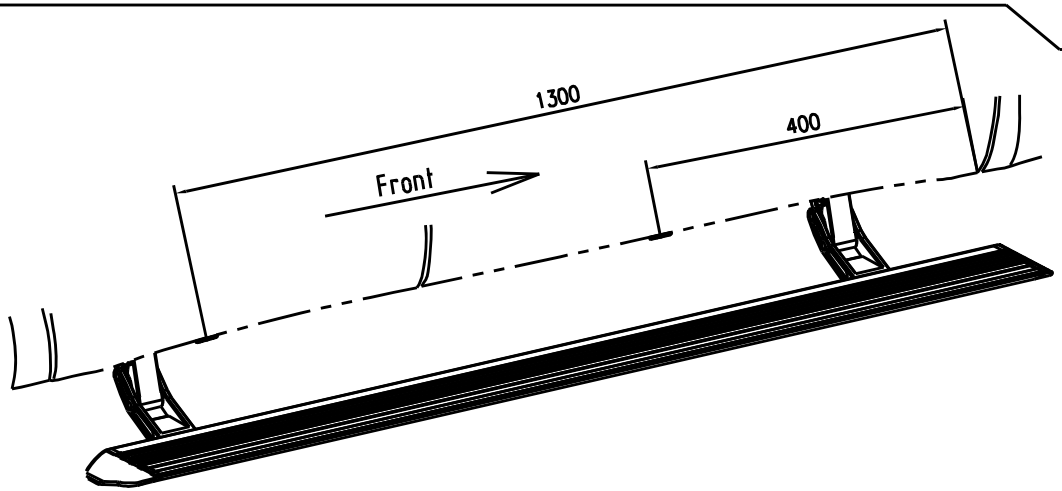


Instruction: The magnet position after closing the door is shown as above the picture.

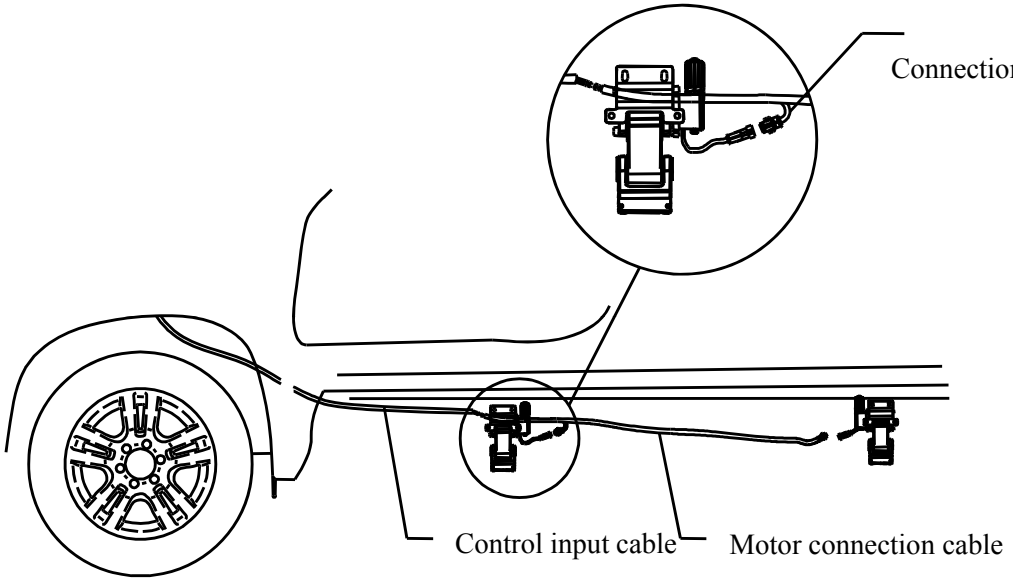


Note: The installation position of induction C1 and C2 is shown as above the picture.



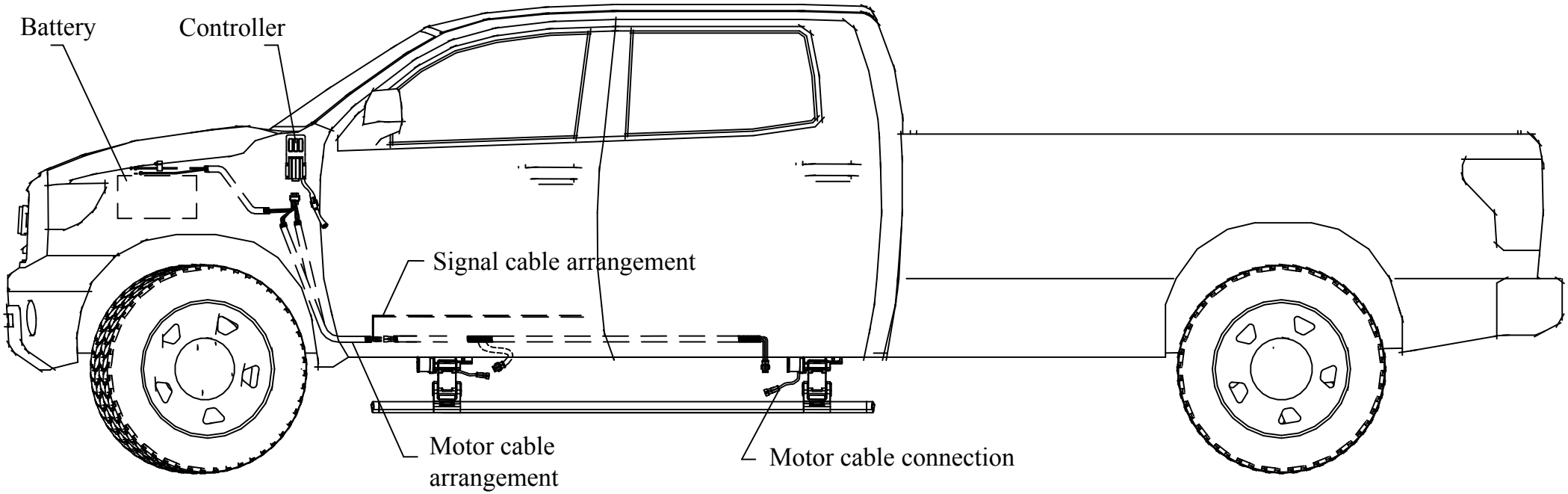


Step 14: Installation of LED lamp : Tear off the double-sided adhesive tape behind the LED lamp and stick it to the thin wall blow the vehicle skirt. The distance from designated pasting position of LED lamp (Wipe the pasting position clean with a rag.) to front gate crack line of front door is as shown in the picture (Front LED lamp is 400mm and rear LED lamp is 1300mm).



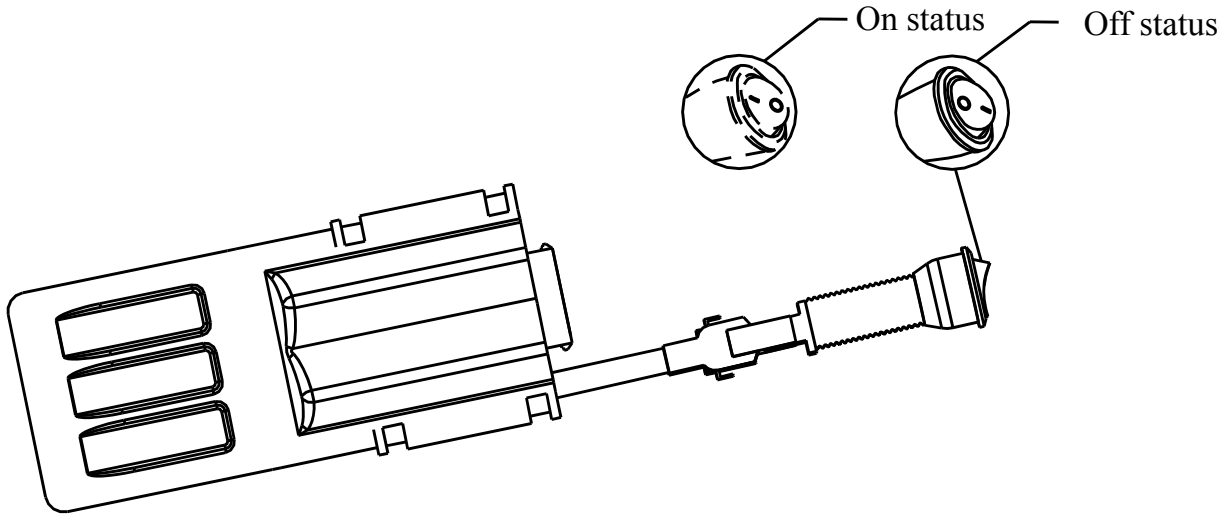
Step 15: Installation of motor cable: Connect the connector of motor connection cable with control input cable and arrange the cable harness along with the vehicle beam . At the same time, notice that the connectors of the same color cable should be connected to each other. Connect motor connector with the connector of motor connection cable. Then fasten the cable harness on the vehicle beam by cable tie to make the cable harness neat. Same cable installation is for the other side.

Summary of Electric Part



Step 16 : Check out the emergency switch of controller to make sure it is off. Insert back the fuse , arrange the cable harness 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 can not work normally , please check the completeness of 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 screw’s 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 burns out.
		Fault connection of motor cable: recheck if all plugs are connected well.
		Fault connection of vehicle door control signal: recheck the connection of cables according to the diagram.
		Fault of controller: if there is no problem for all cables, please contact with our after sale service center.
	Mechanics Malfunction	An object is blocking the board.
		The two installation surfaces are not at the same level.

Note: In the using process , you may meet some other unknown trouble. Please contact us timely to feedback the problems , we will solve them 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 provides free maintenance for any malfunction related to the manufacturer. Warranty period lasts 24 months or 5 kilo in 2 years after sale. For individual related faults, T-MAX provides paid maintenance.

2、T-MAX promises to provide lifetime maintenance for Way Past Warranty 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 stripping 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			
Purchase Shop			

Maintenance records

Date	Fault Description	Fault Reasons	Result	Note

Produced by

T-MAX(HANGZHOU)TECHNOLOGY CO.,LTD