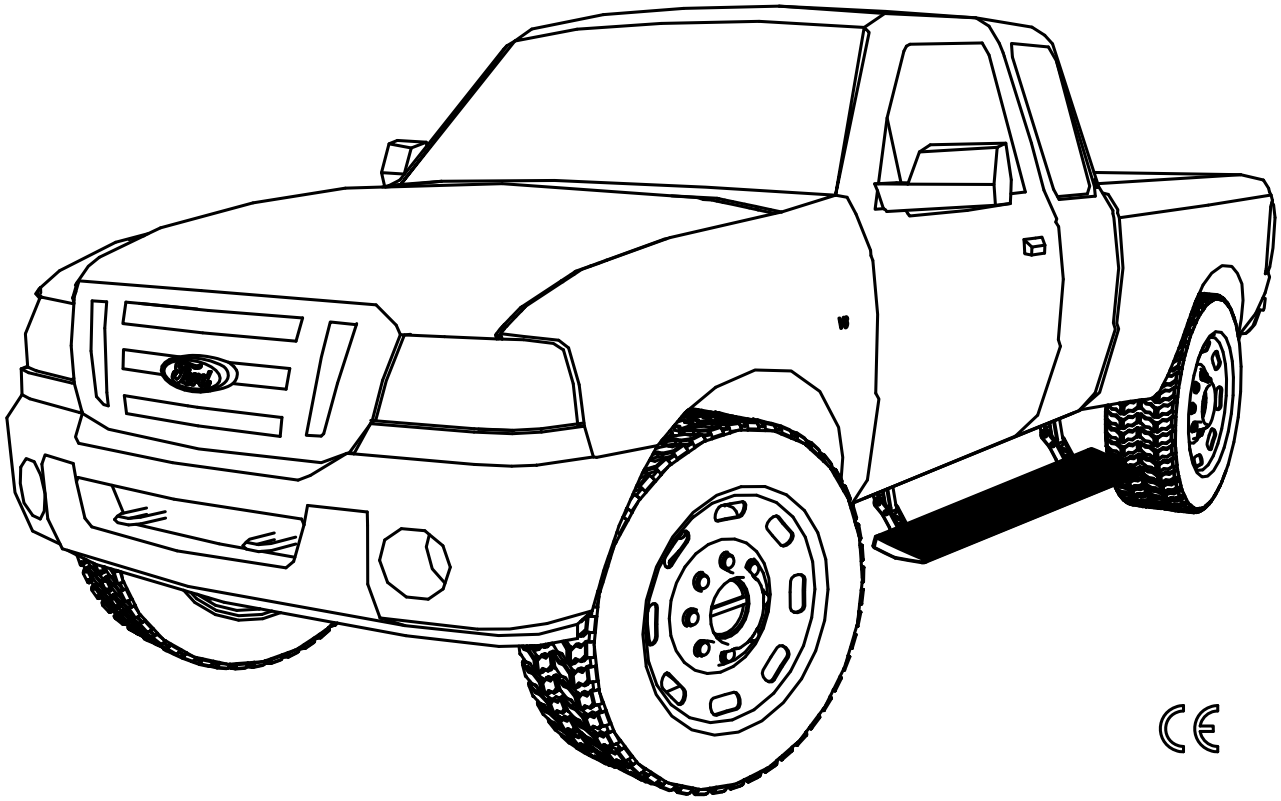
E-BOARD

Mazda BT-50 POWER BOARD



APPLICATION: Mazda BT-50

INSTALLATION GUIDE

INSTALLATION TIME

3:00 hrs

SKILL LEVEL

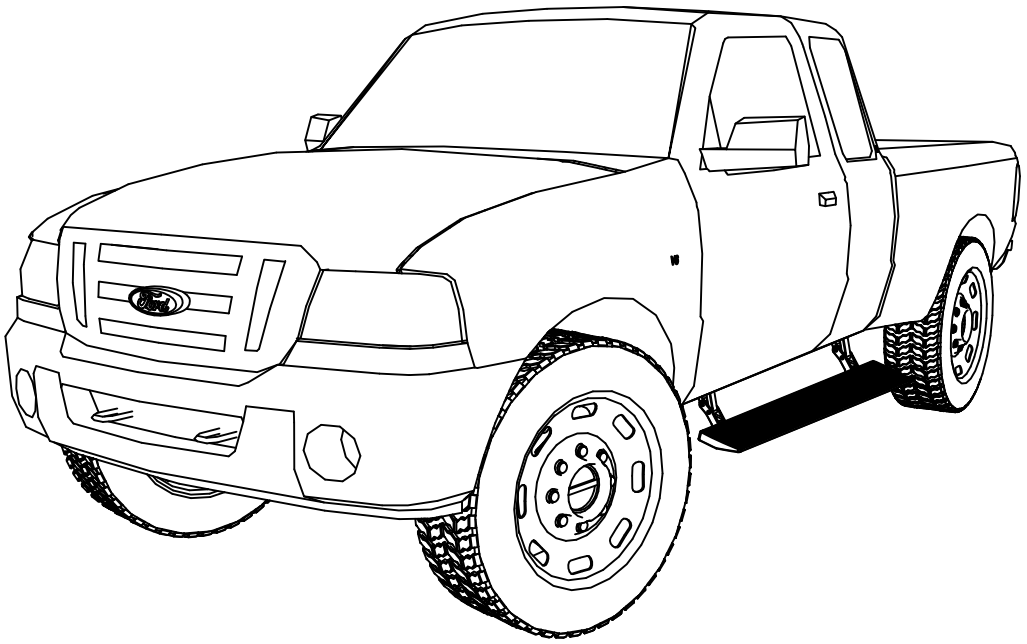
1 2 3 **4**

4=Experienced

PART: PST05-2610

TOOLS REQUIRED:

① 5 mm Hexagon Socket Wrench (Allen Wrench)
② 13mm Socket Spanner
③ Pry Tool
④ Wire Dtripper/Cutter
⑤ Vinyl Tape
⑥ Screw Driver



Contents

Product Technical Specification..... 02

Product Packing List 03

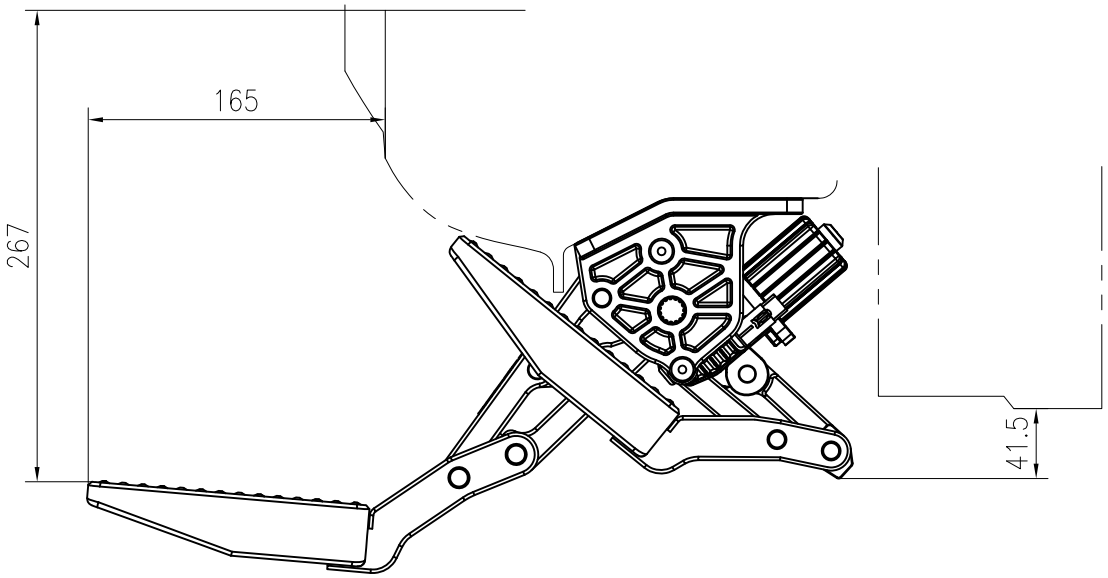
Mechanical Installation..... 06

Electrical Installation..... 11

Maintenance..... 17

Warranty Card 19

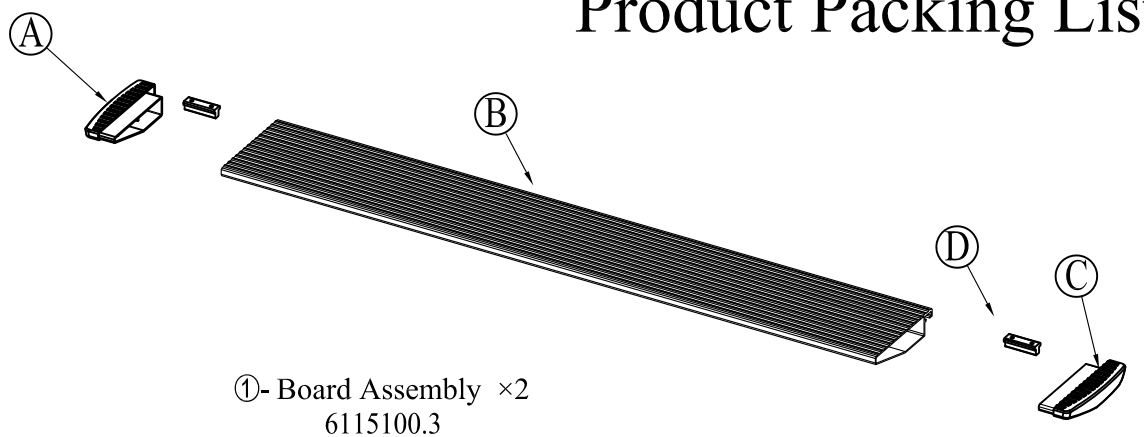
Product Technical Specifications



Rated voltage: 12V
Rated load: ⩽300kg
Gross weight: 22kg
Forward extension size: 165mm
(Horizontal distance between the edge of power board and the vehicle door when the step extends)
Step falling dimension: 267mm
(Vertical height difference between the edge of power board and the vehicle door while step 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.)

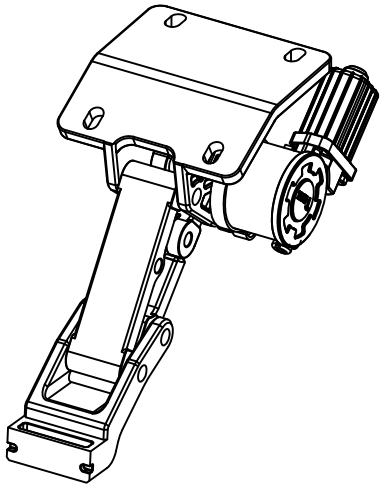
Note: Impact load is not allowed.
Please make sure the children and the aged will keep 25cm safe distance while power board is working to avoid any bumped or jammed.

Product Packing List

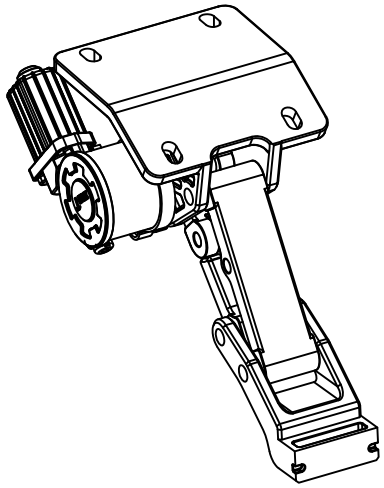


①- Board Assembly ×2
6115100.3

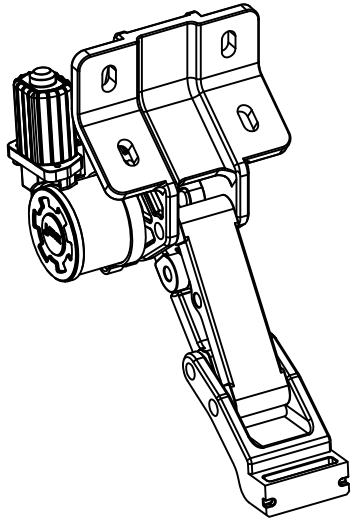
（A）6126100.3-4	End cap left B	（×1）
（B）6115100.2-1	Board	（×1）
（C）6126100.3-1	End cap right B	（×1）
（D）6126100.3-3	T-nut	（×2）



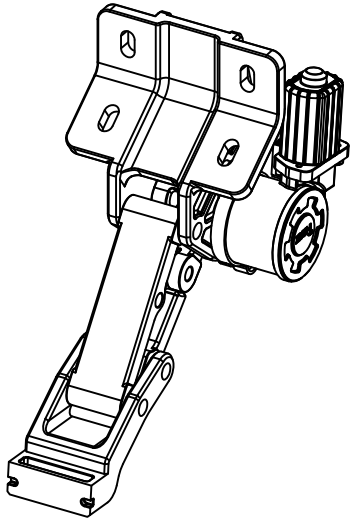
②-Front Motor Linkage Right ×1
6115100.1R



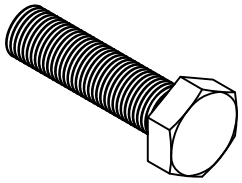
③-Front Motor Linkage Left ×1
6115100.1L



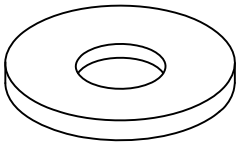
④-Rear Motor Linkage Left ×1
6115100.2L



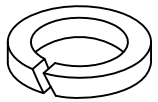
⑤-Rear Motor Linkage Right ×1
6115100.2R



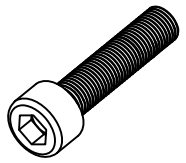
⑥- Full Thread (coarse)
Hexagon Head Bolt ×8
GB/T5783-2000 M10×35



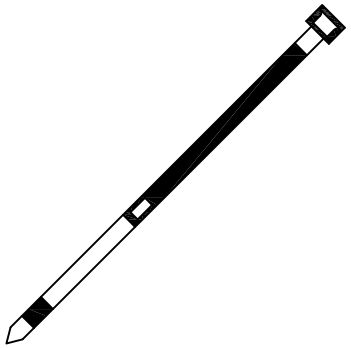
⑦-Larger Washer Grade A ×8
GB/T96.1-2002 10



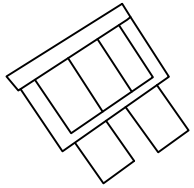
⑧-Spring Washer ×8
GB/T93-1987 10



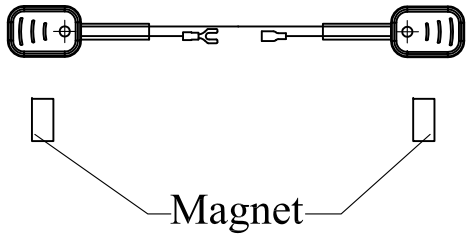
⑨-Socket Cap Bolt ×8
GB/T70.1-2000 M6×25



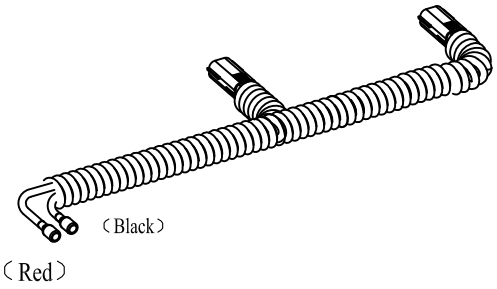
⑩-Wire Tie ×25
GB/T22344-2008 5×300



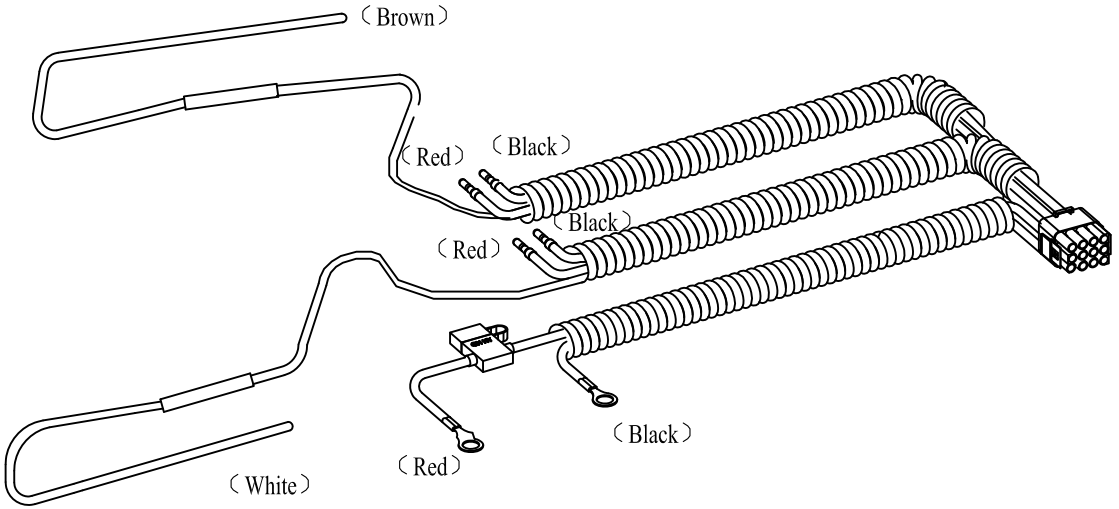
⑪- Fuse ×2



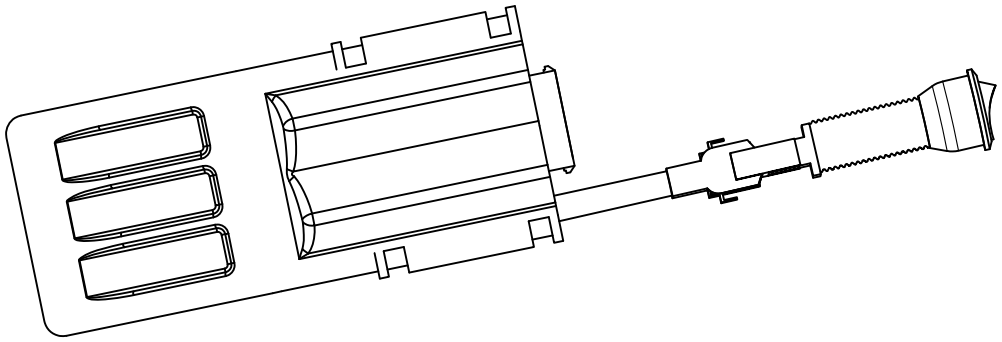
⑫-Magnetic Inductor ×2
Magnet×4



⑬-Motor Connection Wire ×2
6115100.4.3

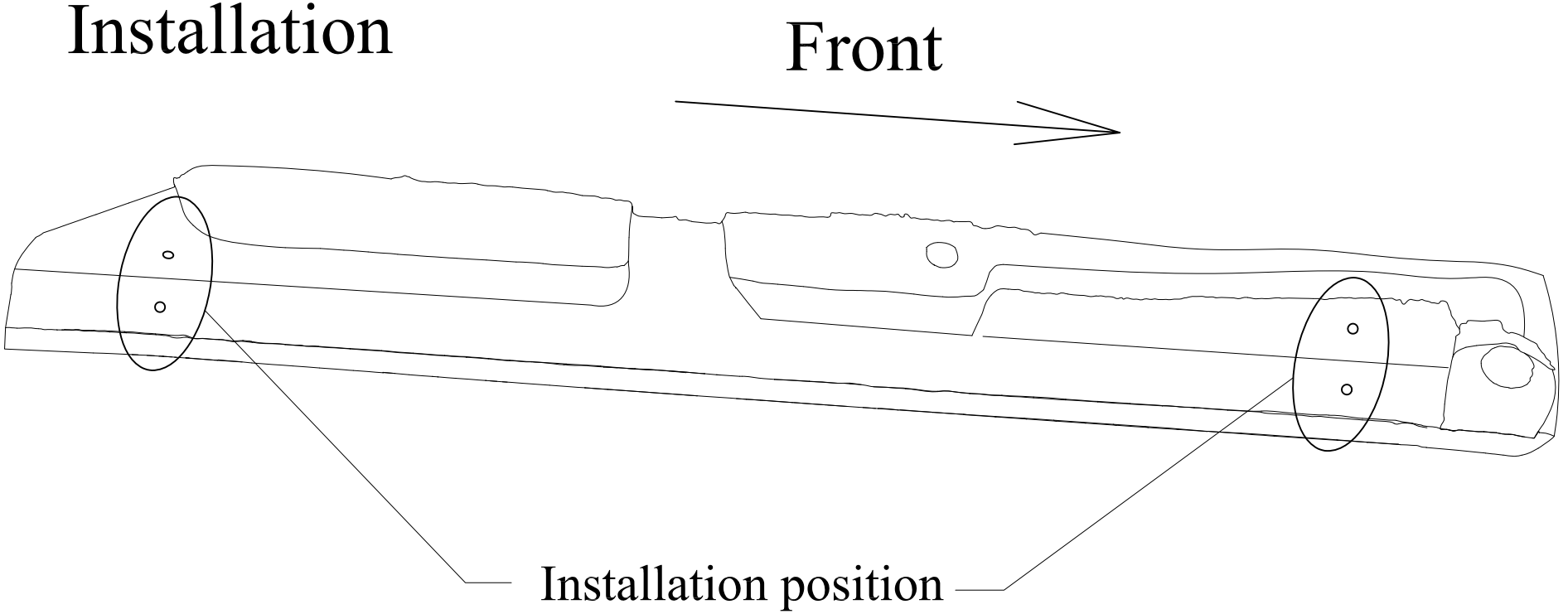


⑭-Control Input Wire ×1
6115100.4.1



⑮-Controller Assembly ×1
6115100.4.6

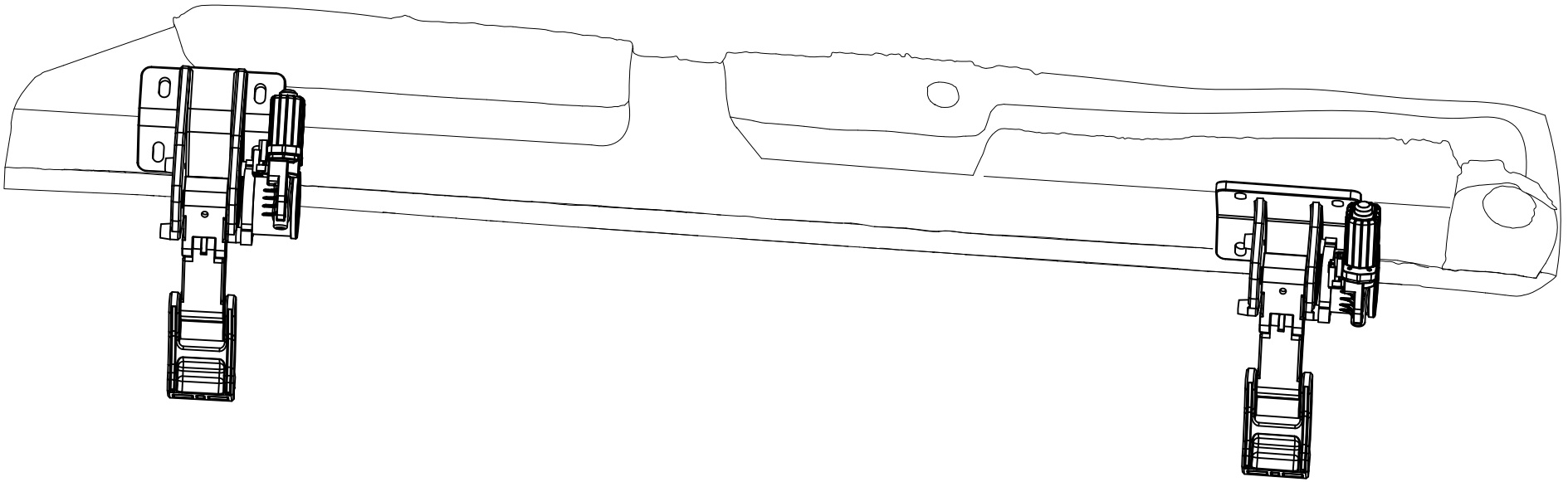
Mechanical Installation

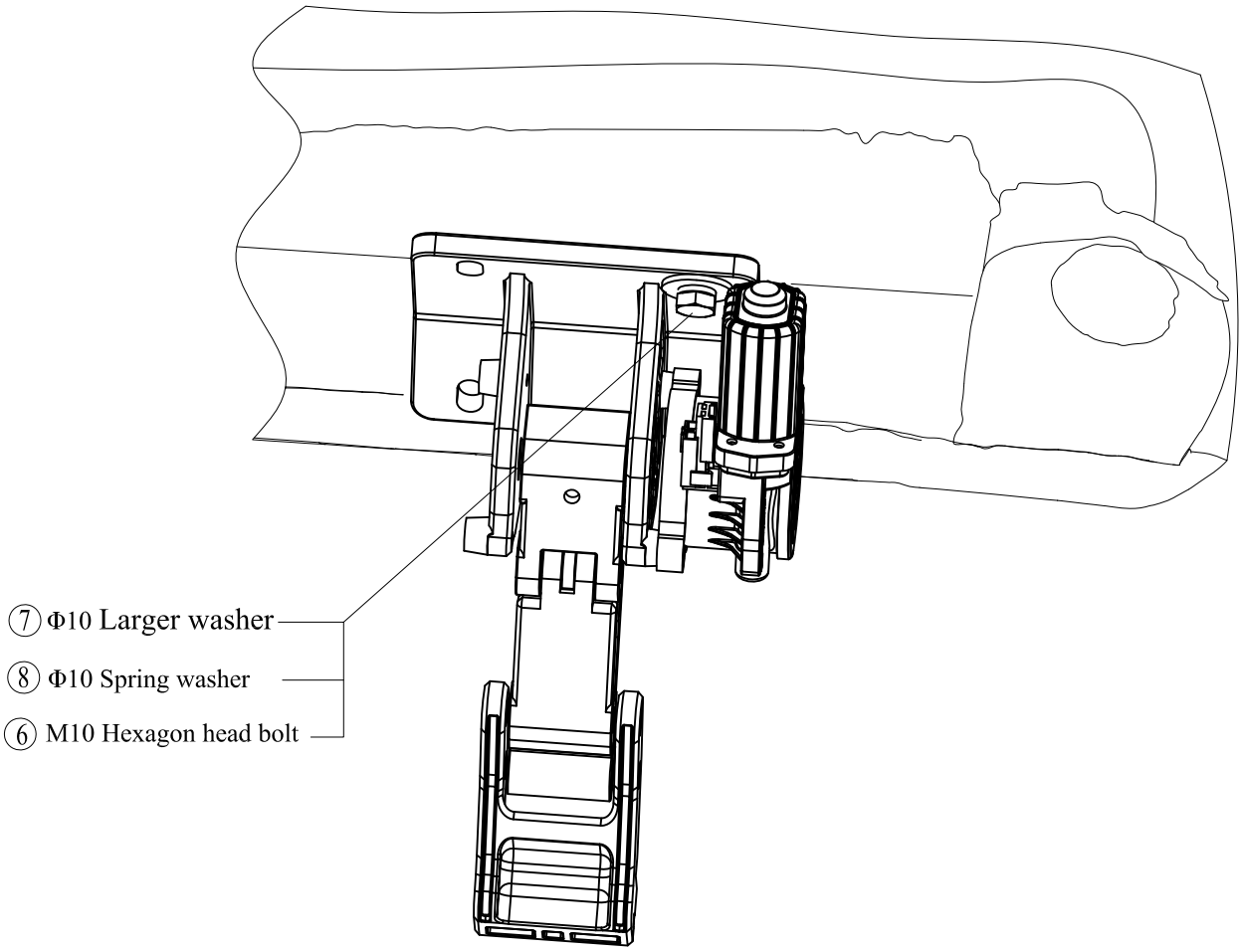


Installation position on the Left

As shown in the picture: The installation hole of motor linkage should be match vehicle original step fixing hole.

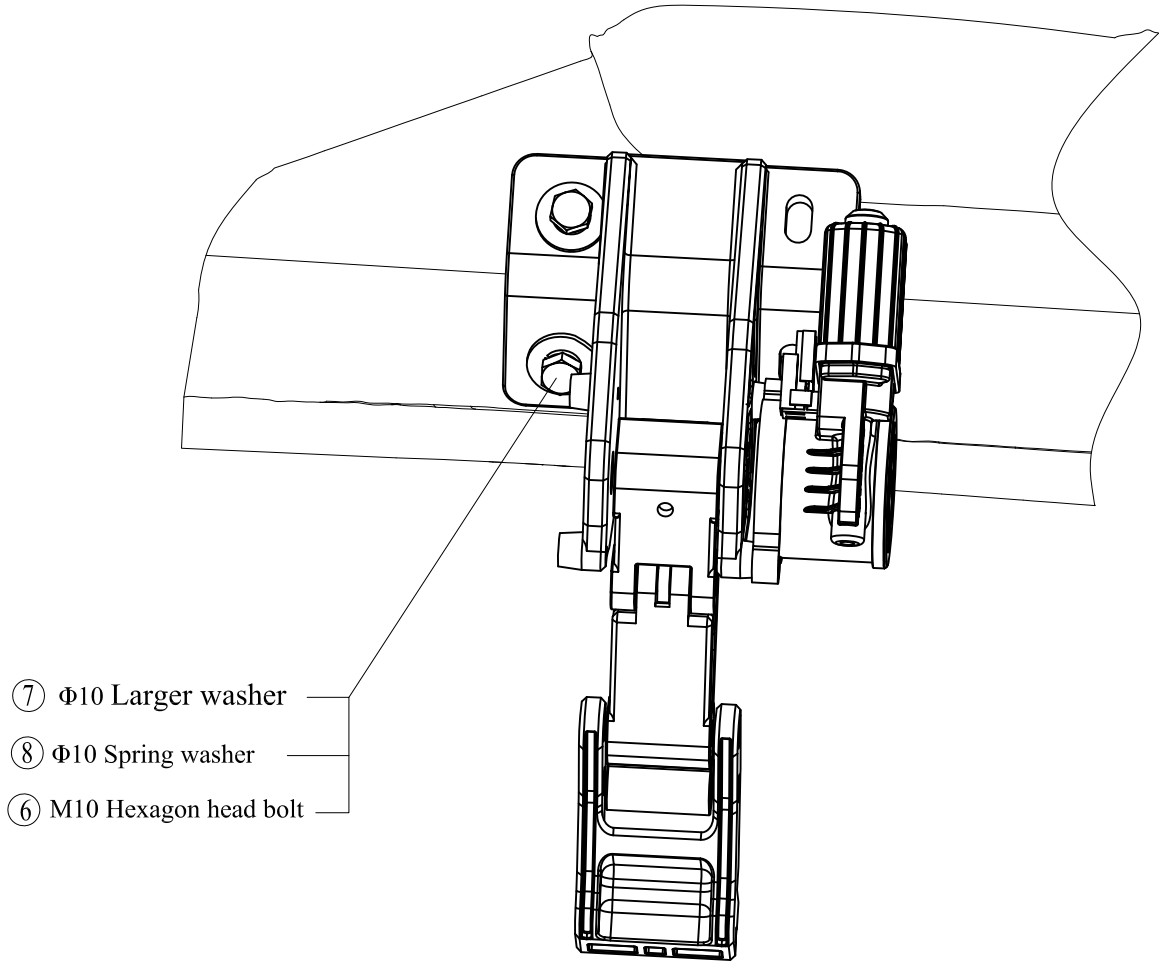
Front





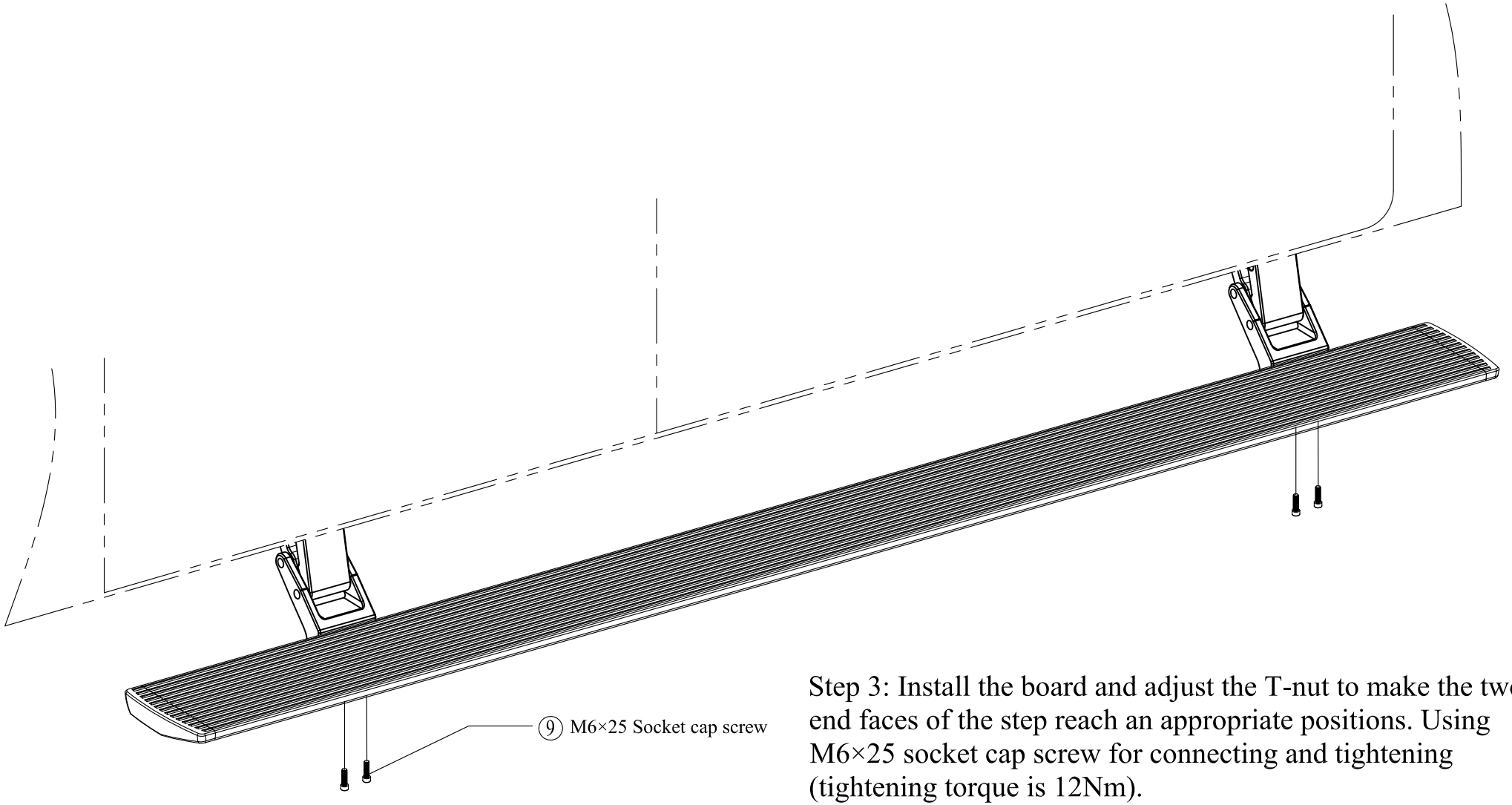
Step 1: Fixing the hexagon head bolt (with spring washer and larger washer) into the corresponding installation hole and pre-tighten it. Then tighten it (Tightening torque 24Nm).

On the front of left side



Step 2: Fixing the hexagon head bolt (with spring washer and larger washer) into the corresponding installation hole and pre-tighten it. Then tighten it (Tightening torque 24Nm).

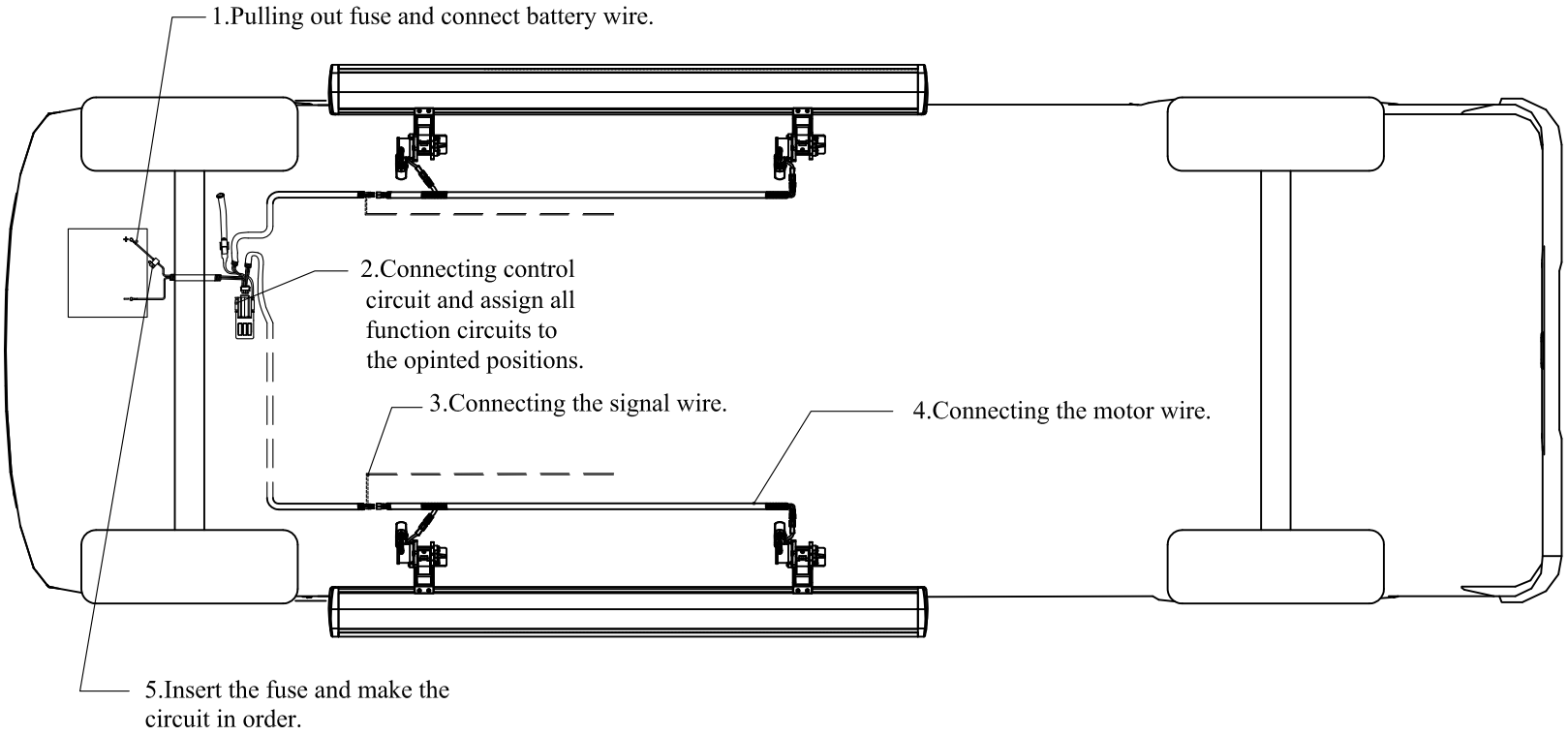
On the rear of the left side

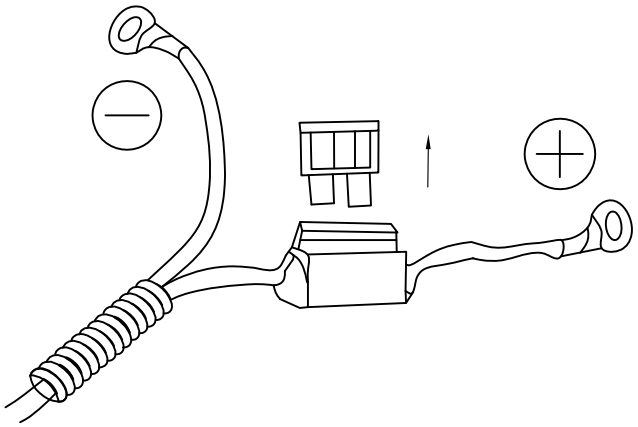


Step 3: Install the board and adjust the T-nut to make the two end faces of the step reach an appropriate positions. Using M6×25 socket cap screw for connecting and tightening (tightening torque is 12Nm).

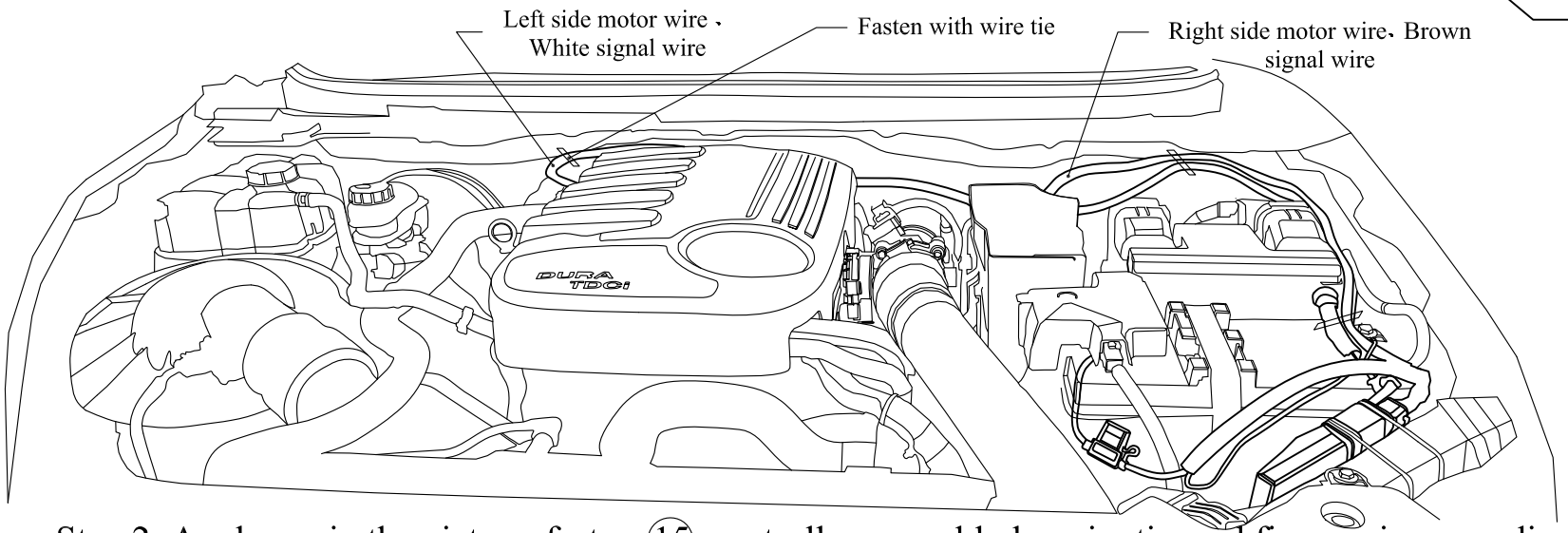
Mazda BT-50

Electric Installation for Magnetic Control

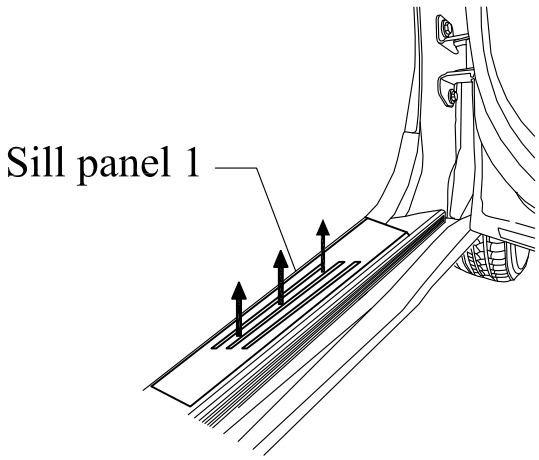




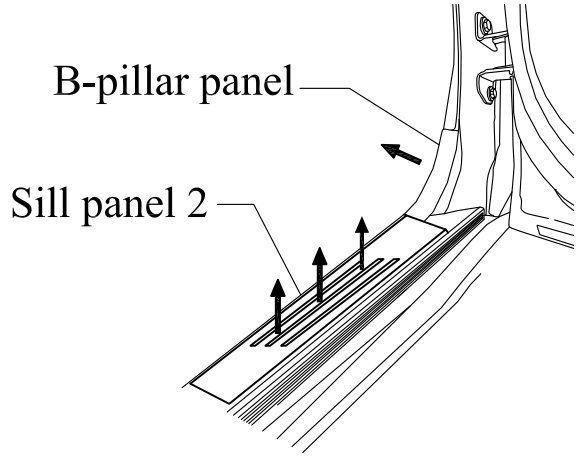
Step 1: Find ⑭ control input wire, pull out the fuse (ensuring circuit safety during installation) and connect positive and negative to vehicle battery.



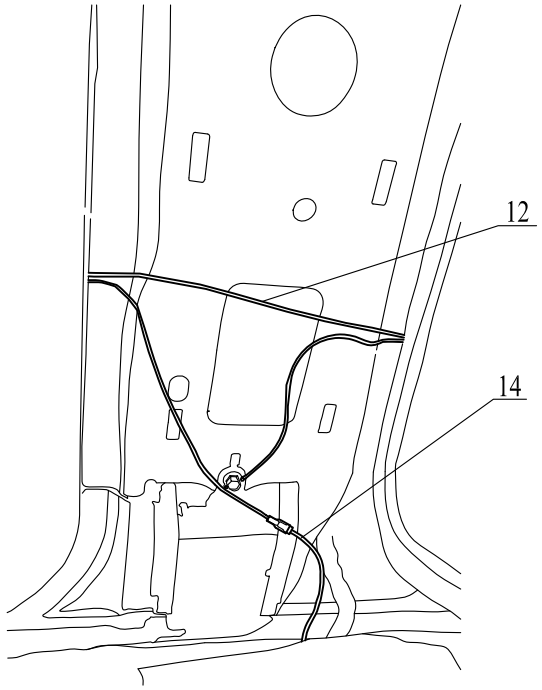
Step 2: As shown in the picture, fasten (15) controller assembly by wire tie, and fix up wire according to the wire label. Fixing wire by wire tie after all the wire go through the vehicle bottom, reaching vehicle bottom and inside.



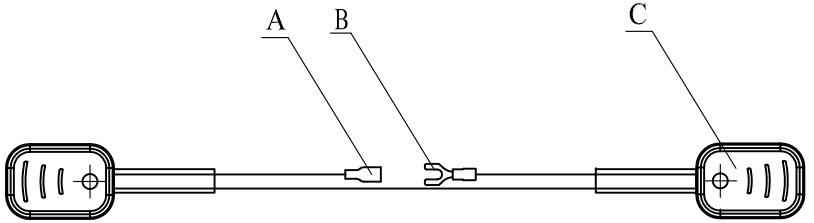
Step 3: Signal Wire Connection: Pry the sill panel 1, 2 and B-pillar panel on the right side of the vehicle show as the picture. Then open the carpet, the brown signal wire pass through the rubber grommet and get into the inside of the vehicle. The installation on the left side of vehicle is as same as the right side.

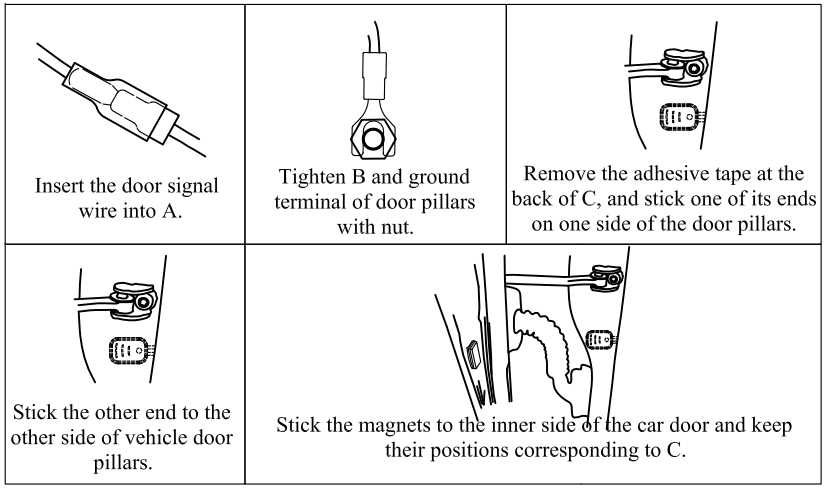


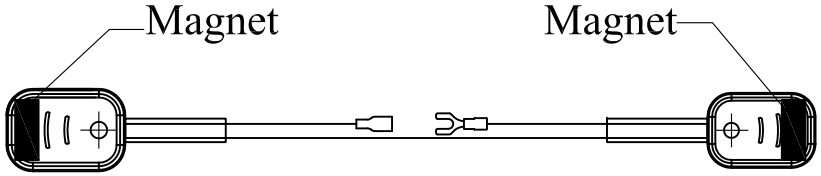
Introduction of magnetic inductor



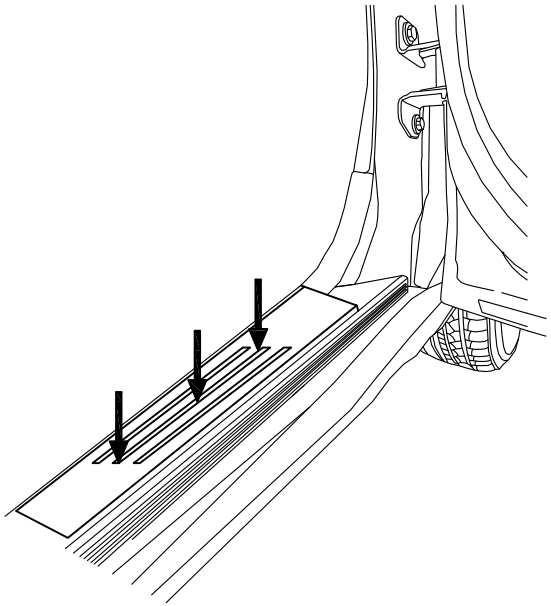
As shown in the above picture, connect signal wire of ⑭ control input wire with insulation connector A of ⑫ wire magnetic inductor, and connect terminal B with ground terminal of B-pillar.



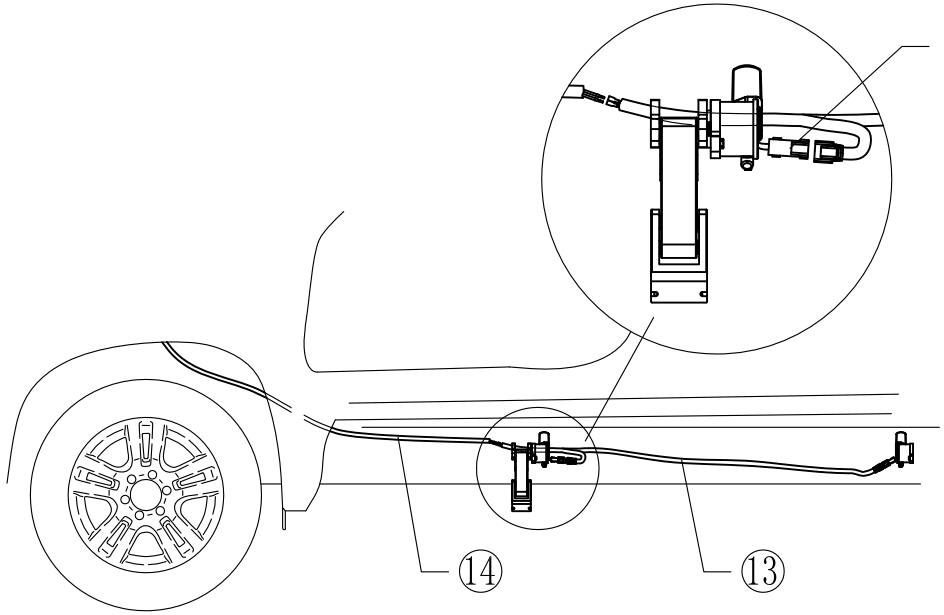




Instruction: The magnet position after closing the door is shown as above picture.

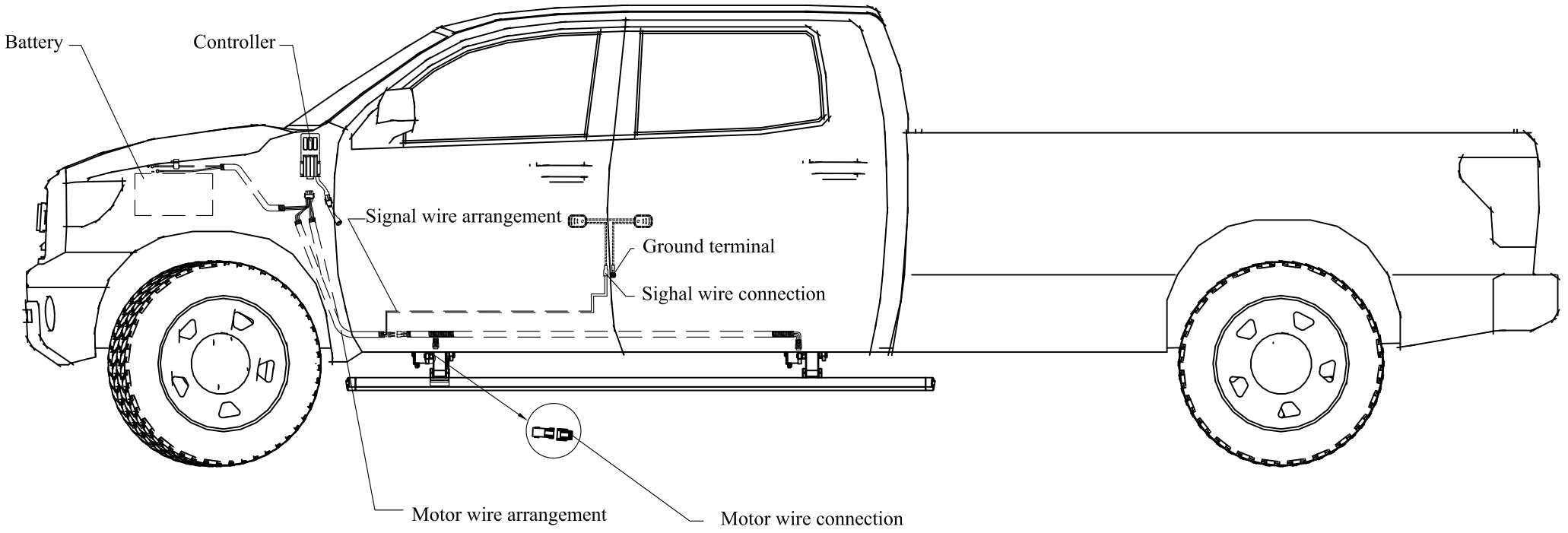


Step 4: Assign the wire in order and close the sill panel.



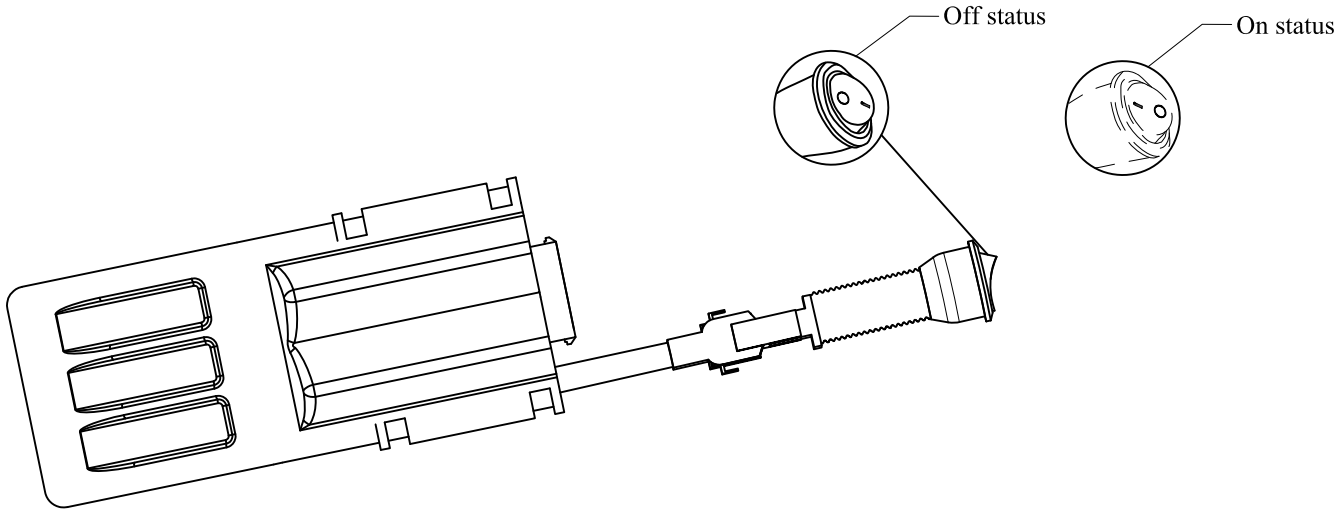
Step 5: Motor wire connection, connecting ⑬ motor connection wire with ⑭ control input wire and arrange the wire along the vehicle beam. Note that the connectors of conductors of the same color should be connected together. Same color motor connector should be connected together. Fasten the wire on the vehicle beam by wire tie to ensure the wire is neat. Same wire installation for the other side.

Summary of Electric Part



Step 6: Insert back the fuse, make the wire in order. Check if the circuits of all parts are installed completely and test if the step can work normally. If it can work normally, the step 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 steps 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 steps 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 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 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. 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			
Shop of purchase			

Maintenance records

Date	Fault Descriptions	Fault Reasons	Result	Note

E-BOARD®

Produced by

T-MAX(HANGZHOU)TECHNOLOGY CO.,LTD