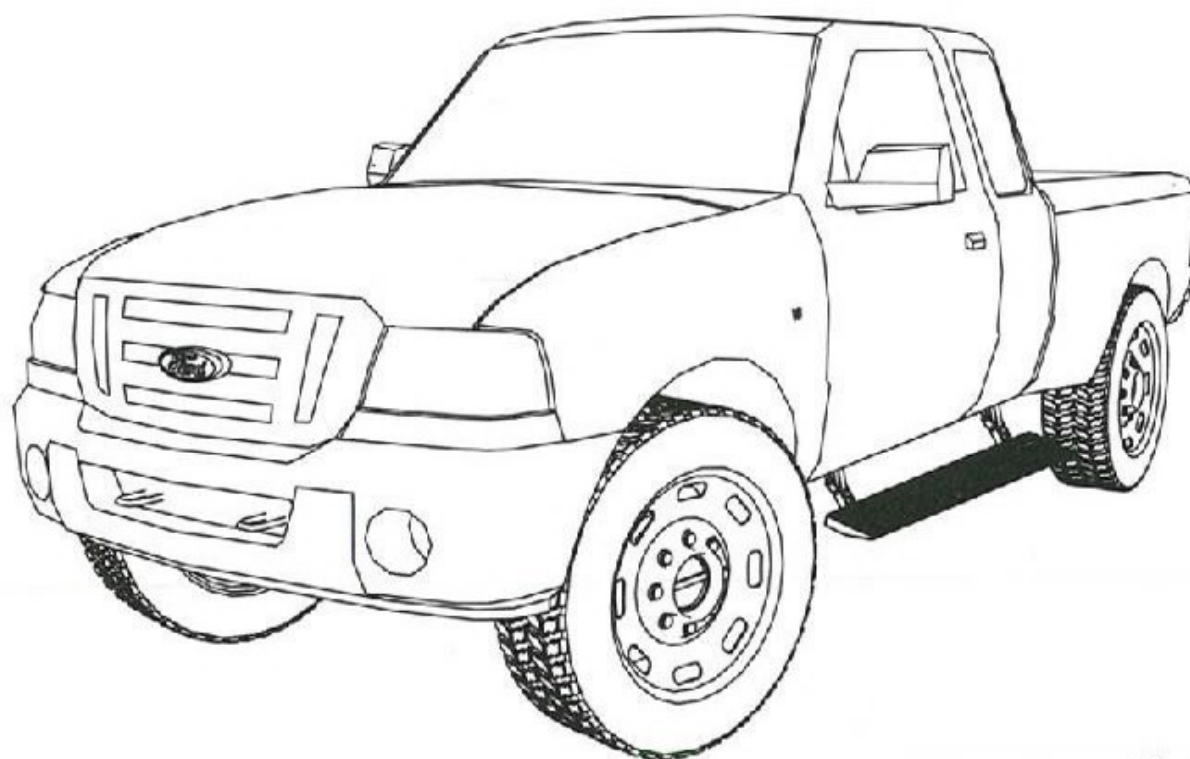


# FORD RANGER T6 POWER BOARD



APPLICATION: Ford Ranger T6 2015



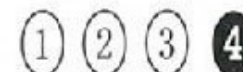
## INSTALLATION GUIDE

### INSTALLATION TIME



3:00 hrs

### SKILL LEVEL



4=Experienced

PART: PST05-1010  
PST05-1030

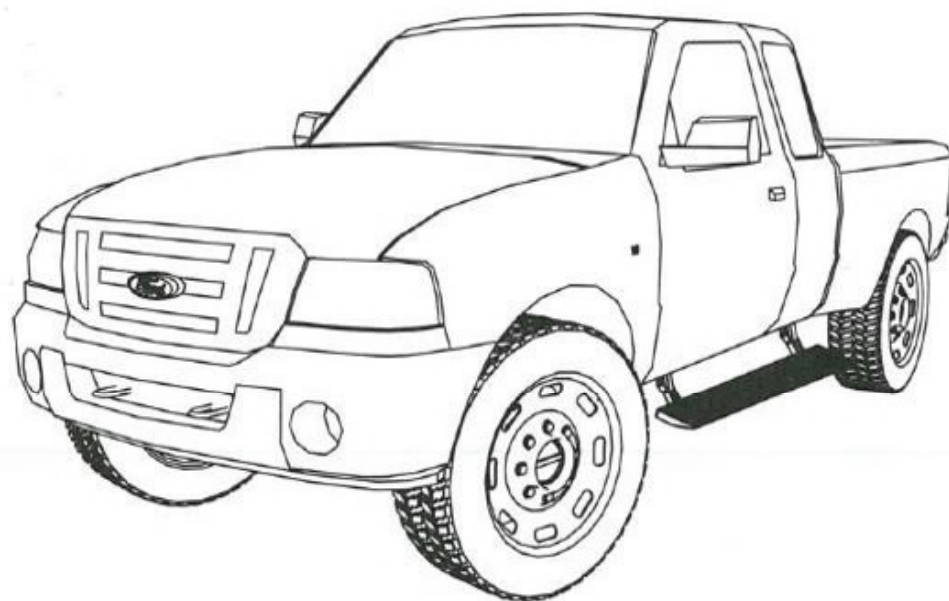
TOOLS REQUIRED:

- ① 5 mm hex key wrench (allen wrench)
- ② 13mm socket
- ③ Pry
- ④ Wire stripper/cutter
- ⑤ Vinyl tape
- ⑥ Screwdriver

**jhp** new vehicle  
enhancements

PST1603D

## Contents



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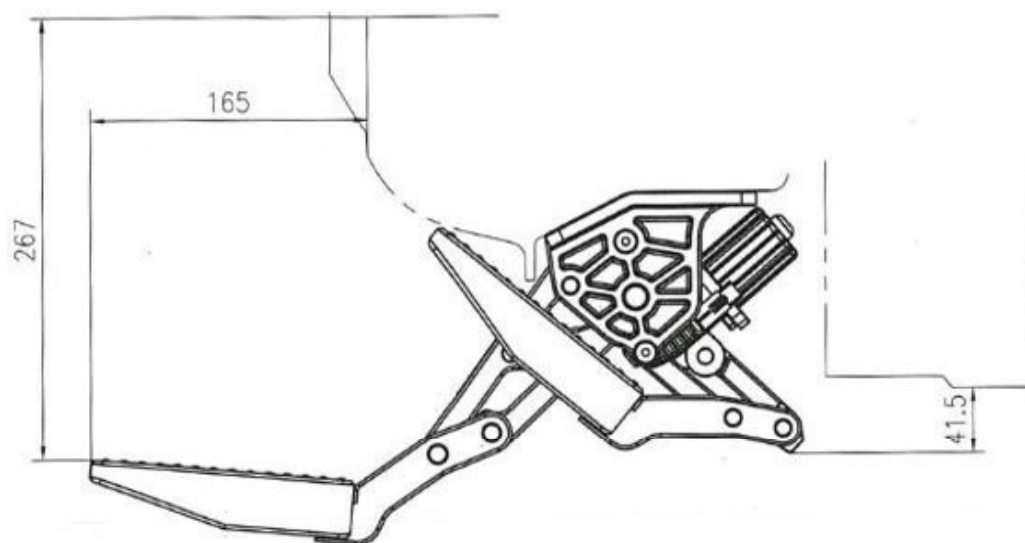
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## Product Technical Specifications



Rated voltage: 12V

Rated load:  $\leq 300\text{kg}$

Length: 1.86m

Gross weight: 24kg

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.

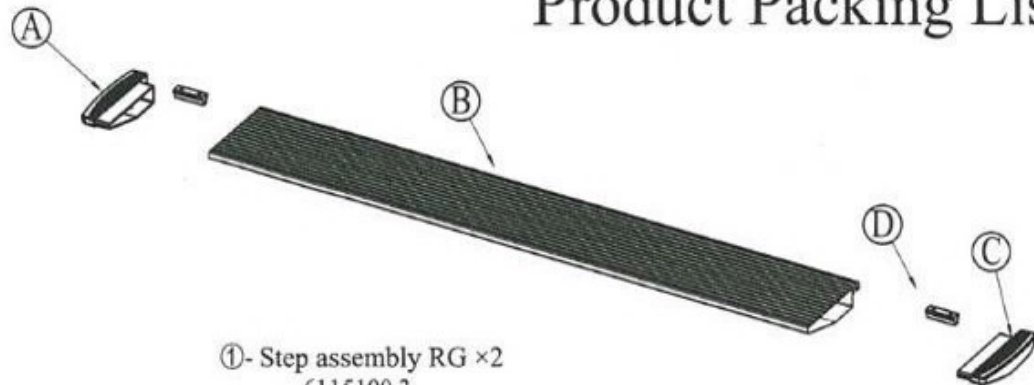
Please make sure the children and the aged will keep 25cm safe distance while power board is working to avoid any bumped or jammed.



# FORD RANGER T6

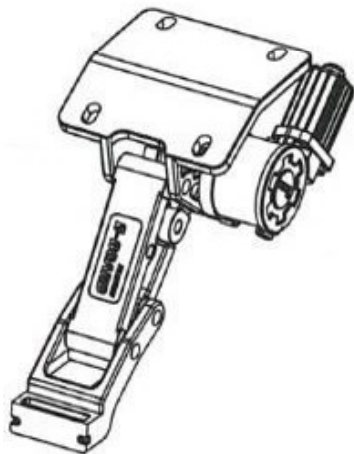
**E-BOARD**

## Product Packing List

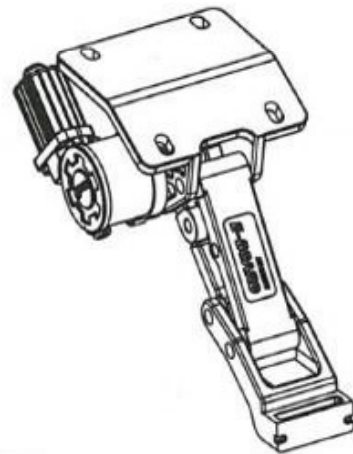


(A) 6126100.3-4	End cap left B	(×1)
(B) 6115100.2-1	Step RG	(×1)
(C) 6126100.3-1	End cap right B	(×1)
(D) 6126100.3-3	T-nut	(×2)

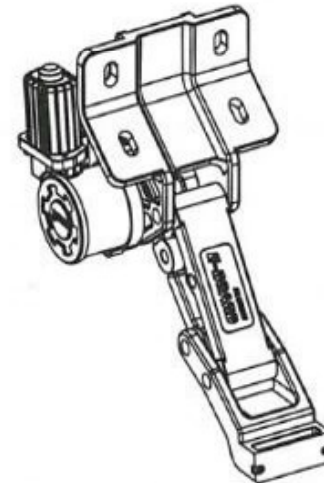
①- Step assembly RG x2  
6115100.3



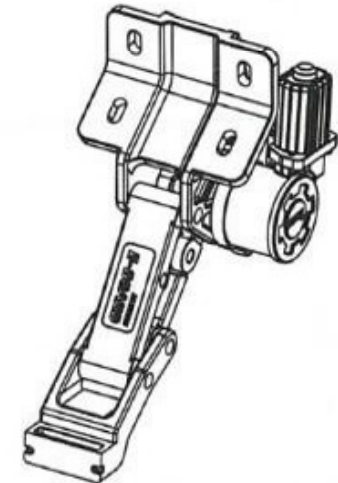
②-Front Motor Linkage Right RG-R×1  
6115100.1R



③-Front Motor Linkage Left RG-L×1  
6115100.1L



④-Rear Motor Linkage Left RG-L×1  
6115100.2L



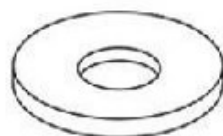
⑤-Rear Motor Linkage Right RG-R×1  
6115100.2R

# FORD RANGER T6

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⑥- Full thread (coarse)  
hexagon head bolt ×8  
GB/T5783-2000 M10×35



⑦-Flat washer grade A ×8  
GB/T96.1-2002 10



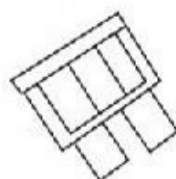
⑧-Spring washer ×8  
GB/T93-1987 10



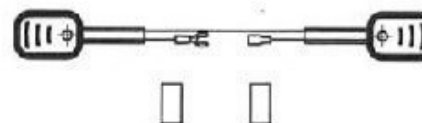
⑨-Socket Cap Bolt ×8  
GB/T70.1-2000 M6×20



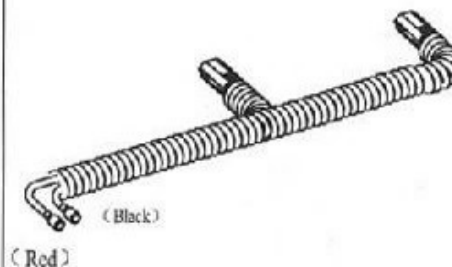
⑩-Cable tie ×25  
GB/T22344-2008 5×300



⑪-25A fuse ×2



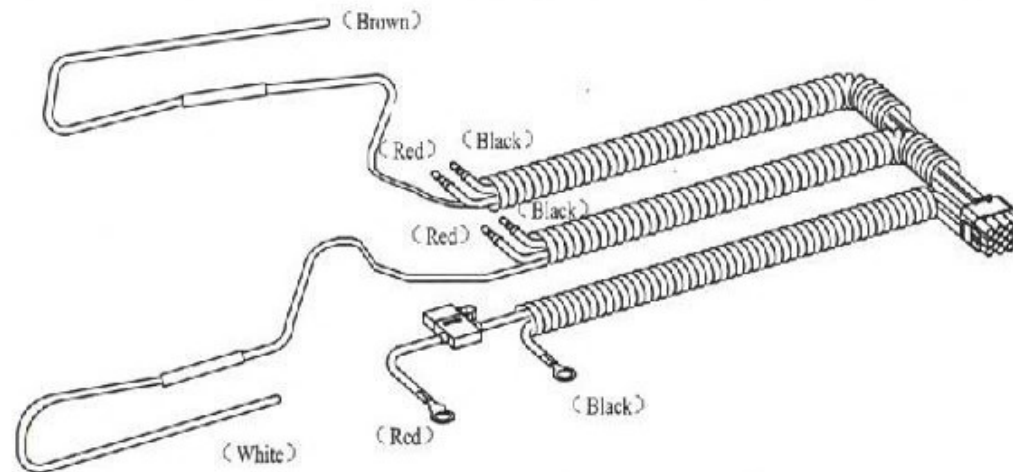
⑫-Magnetic inductor ×2  
Magnet×4



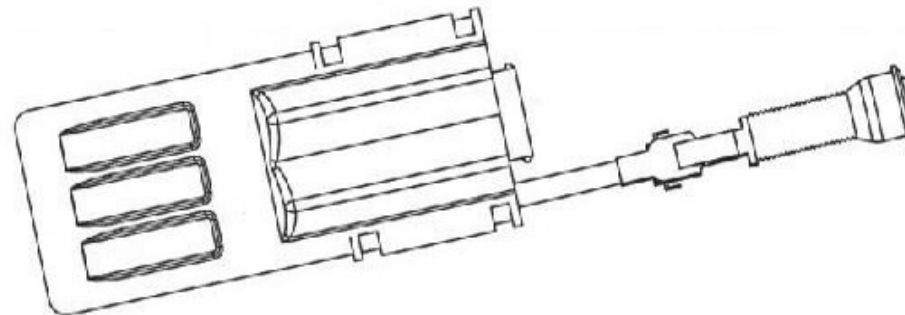
⑬-Motor connection wire RG×2  
6115100.4.3

# FORD RANGER T6

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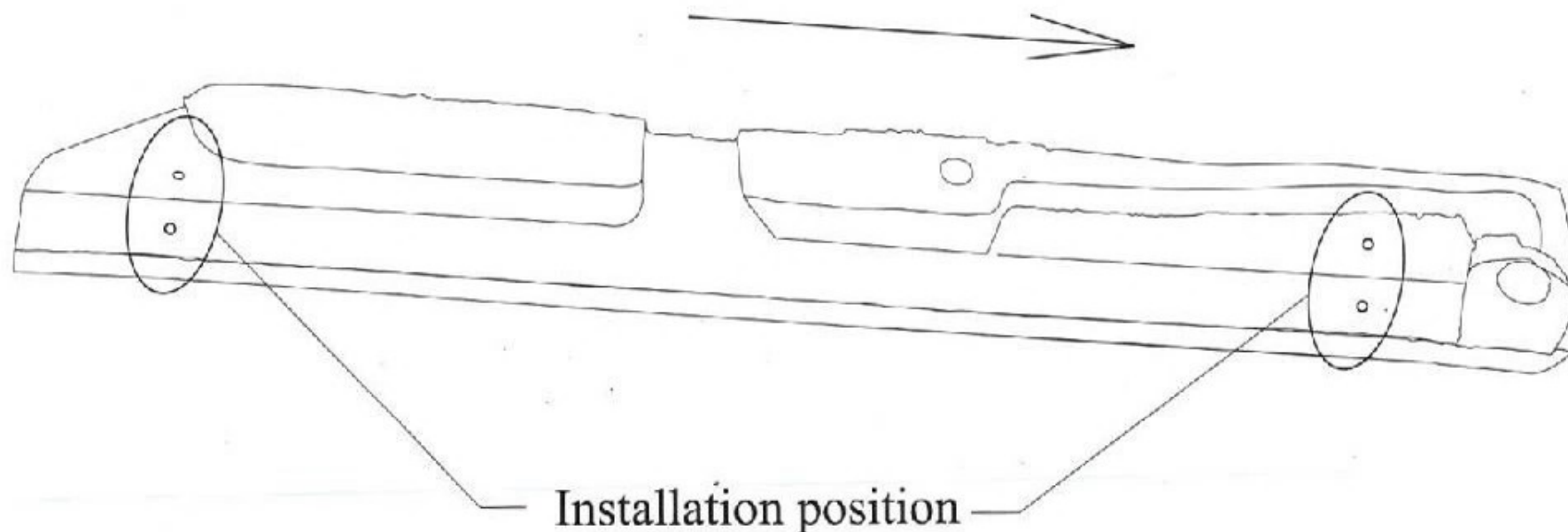
⑭ -Control input wire RG×1  
6115100.4.1



⑮ -Controller assembly RG×1  
6115100.4.6

## Mechanical Installation

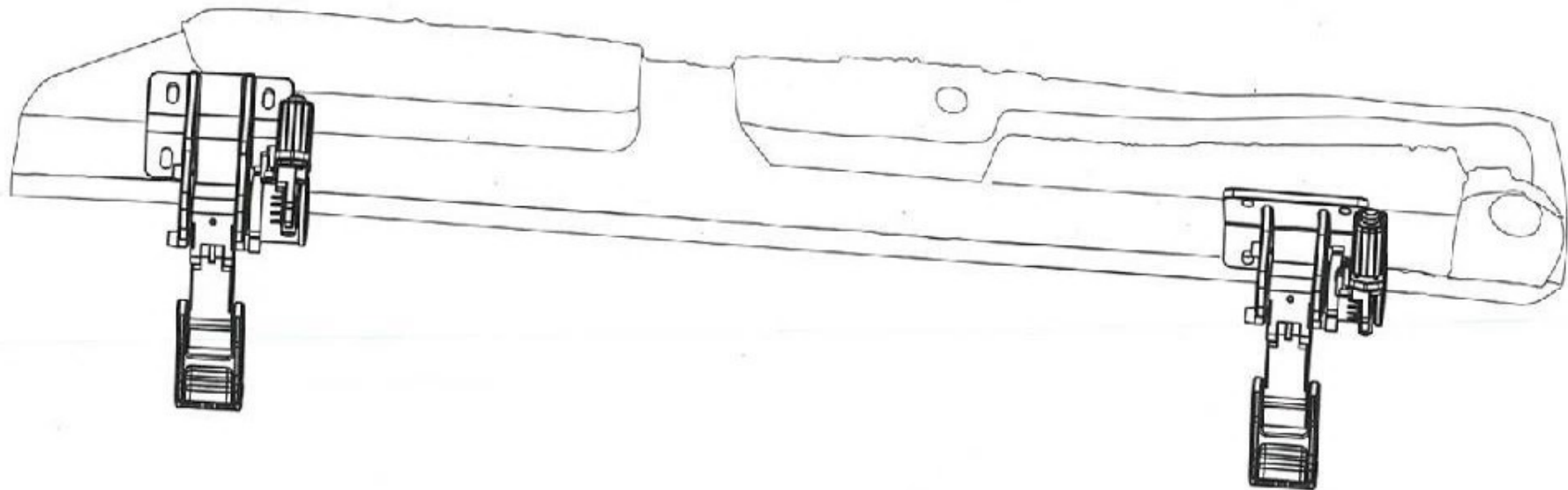
Front



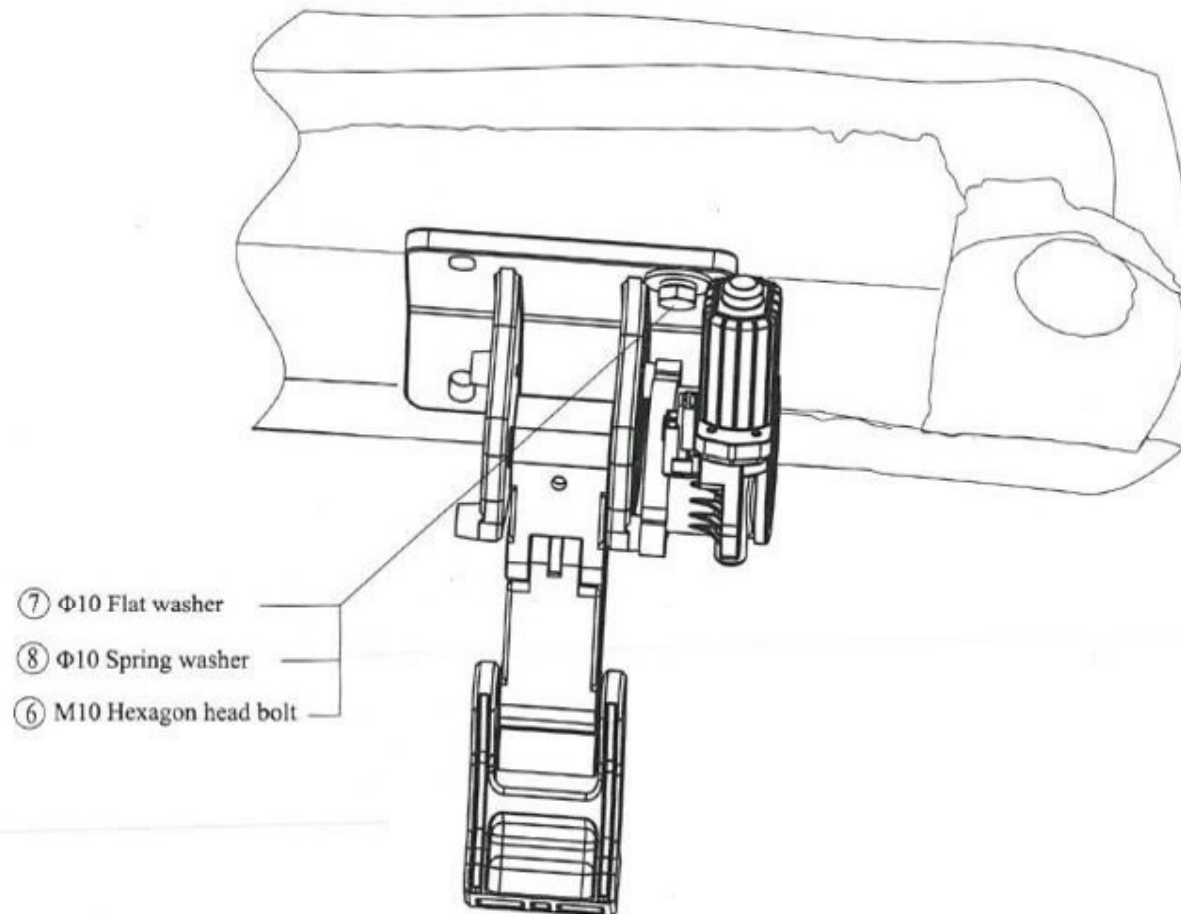
Installation position  
on the Left

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

Front

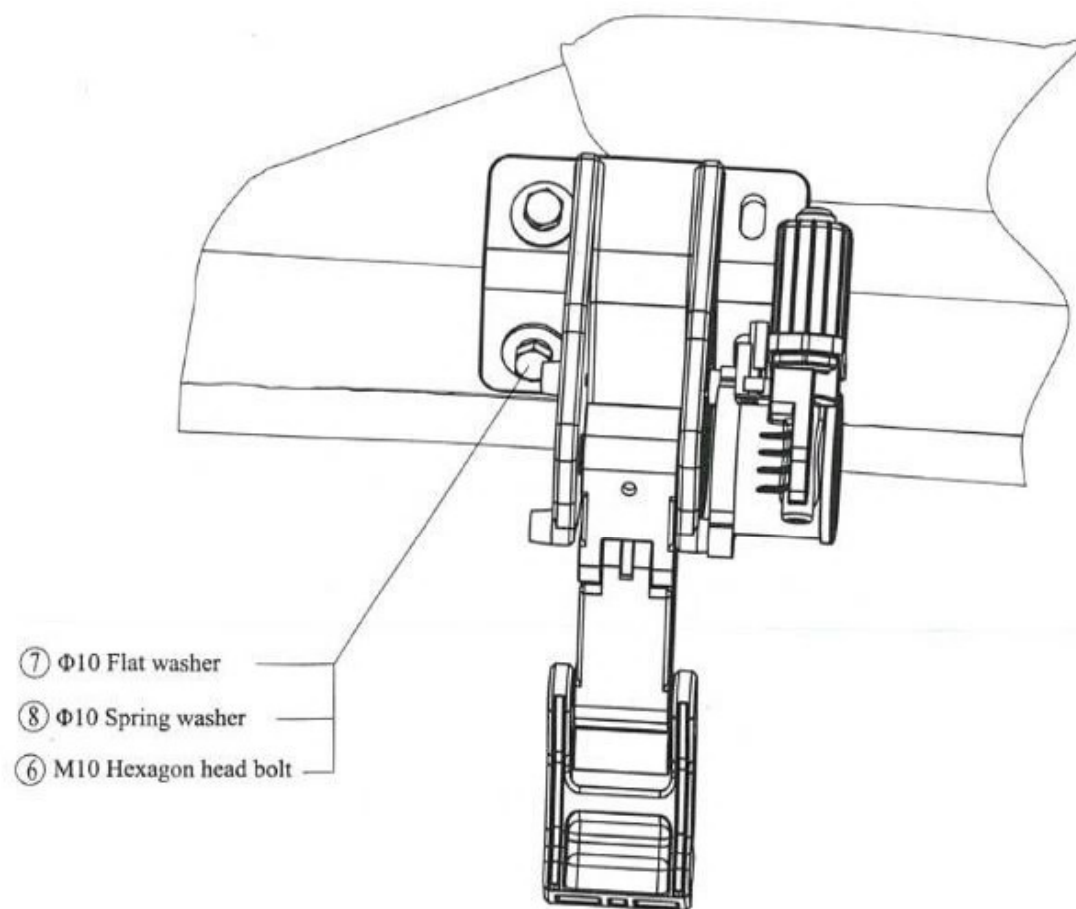






Step 1: As shown in the picture, fixing the hexagon flange nut into the corresponding screw and pre-tighten it. Then fixing the hexagon head bolt (with spring washer and flat washer) into the corresponding installation hole, and pre-tighten it. Tighten the above hexagon flange nut and hexagon head bolt.  
(Tightening torque 30Nm)

On the front of left side

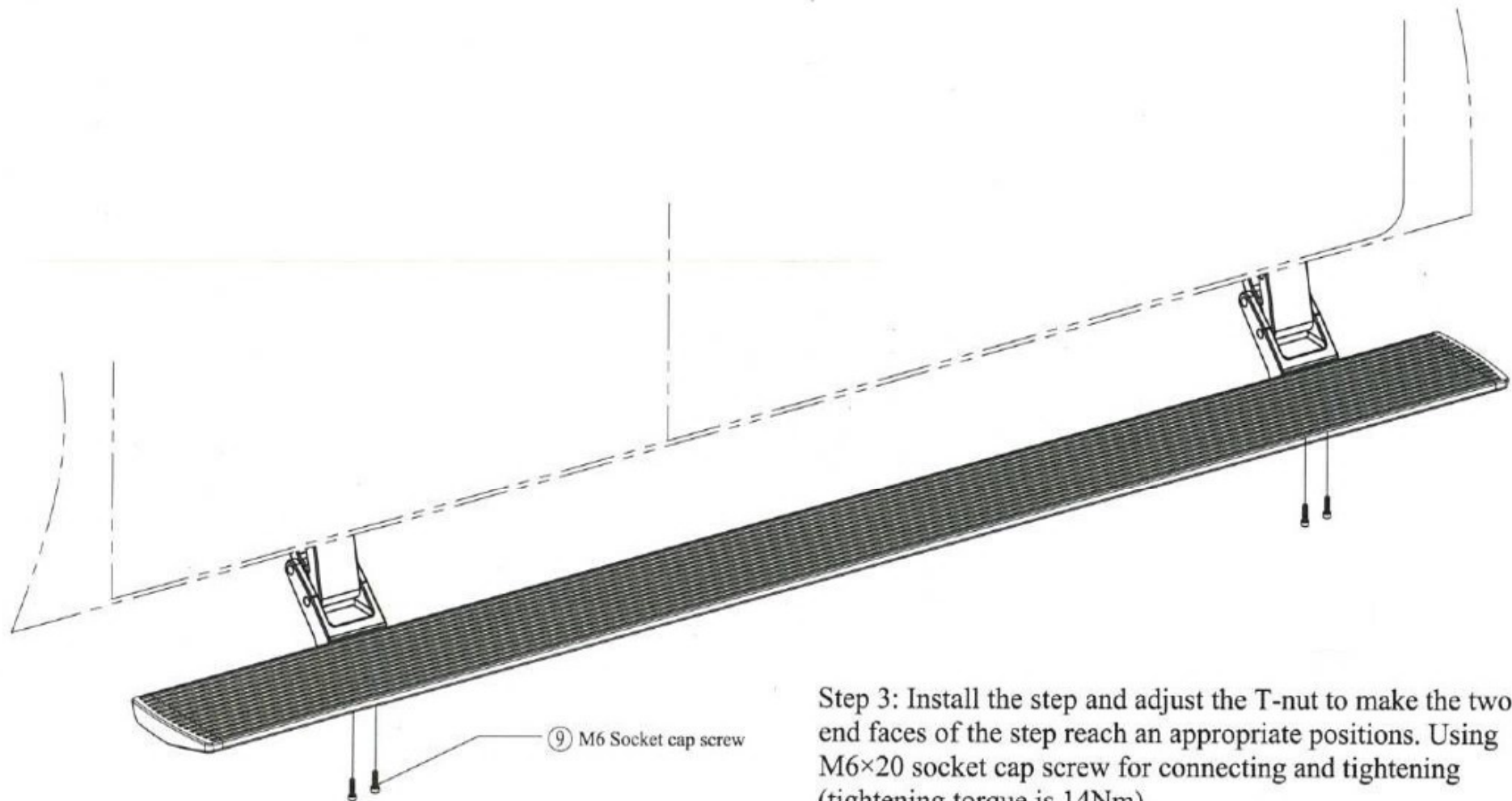


Step 2: As shown in the picture, fixing the hexagon flange nut into the corresponding screw and pre-tighten it. Then fixing the hexagon head bolt (with spring washer and flat washer) into the corresponding installation hole and pre-tighten it. Tighten the above hexagon flange nut and hexagon head bolt.  
(Tightening torque 30Nm)

On the rear of the left side

# FORD RANGER T6

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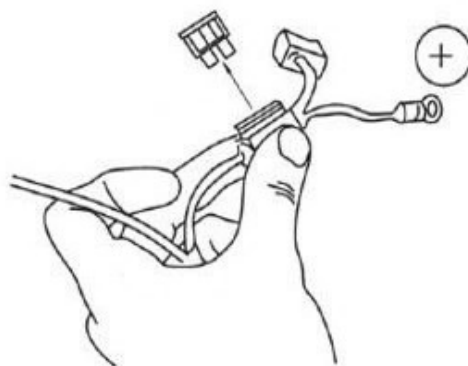
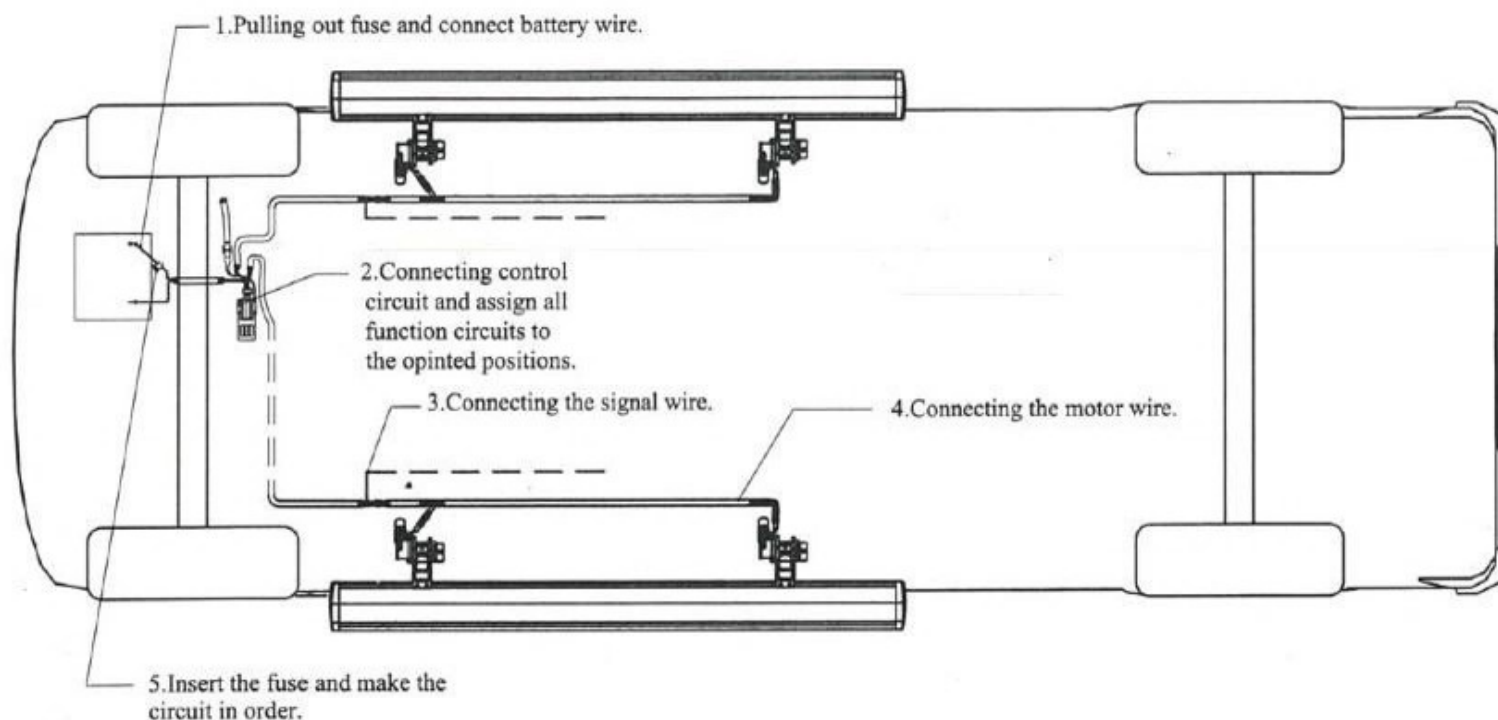


Step 3: Install the step and adjust the T-nut to make the two end faces of the step reach an appropriate positions. Using M6×20 socket cap screw for connecting and tightening (tightening torque is 14Nm).

# FORD RANGER T6

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Electric Installation of  
Magnetic Control

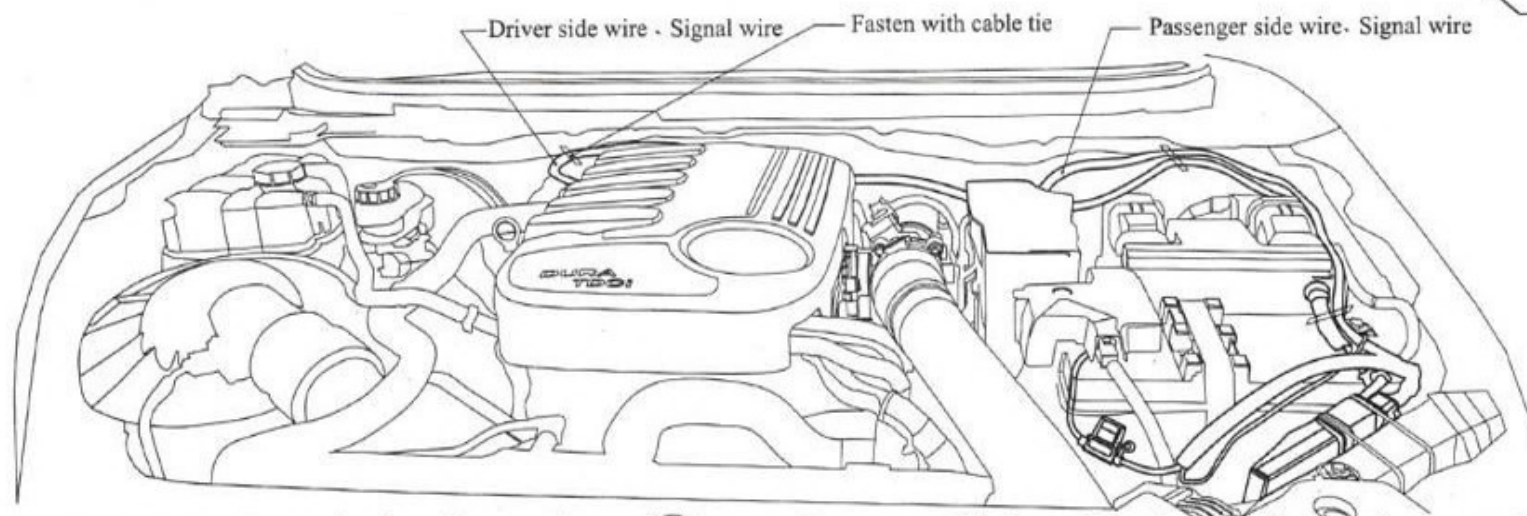


Step 4: Find ⑭ control input wire, pull out the fuse (ensuring circuit safety during installation) and connect positive and negative to vehicle battery.

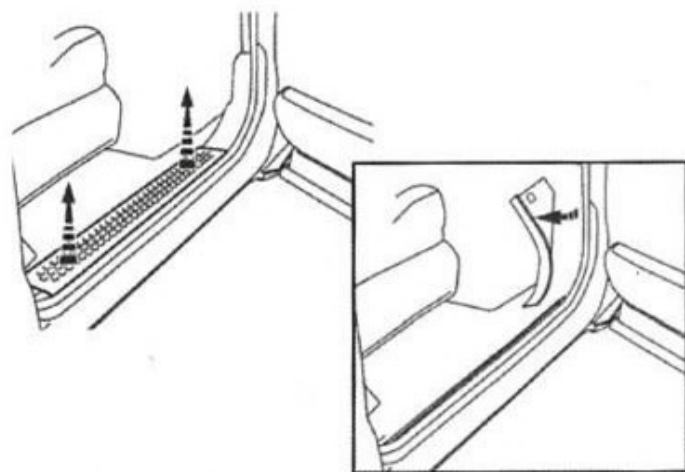


# FORD RANGER T6

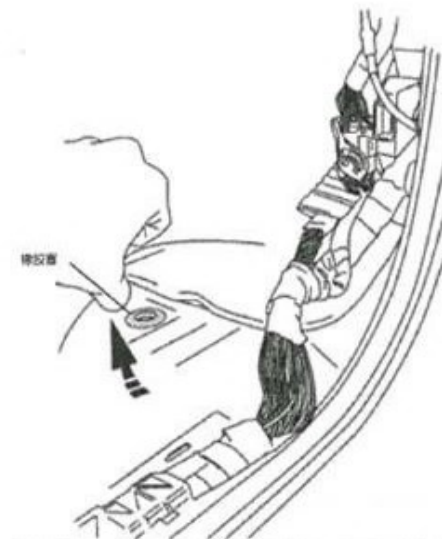
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Step 5: As shown in the picture, fasten (15) controller assembly by cable tie, and fix up wire according to the wire label. Fixing wire by cable tie after all the wire go through the vehicle bottom, reaching vehicle bottom and inside.



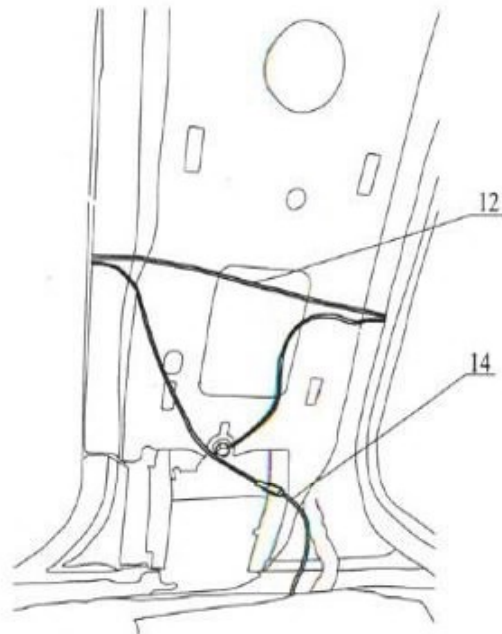
Step 6: Signal wire connection:  
Pry the cover plate at the front passenger side as shown in the left picture, lift the foot cushion (right picture) and two signal wires of left and right doors have to pass through from the sealing rubber cover and get into the vehicle. (A hole should be bored in advance on the rubber cover.)



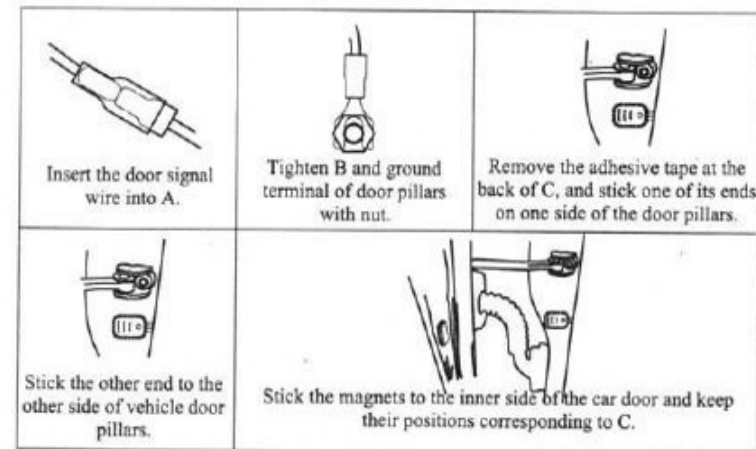
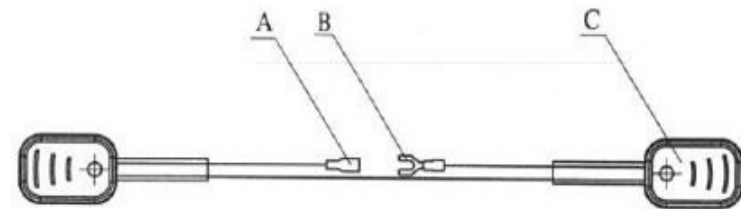
# FORD RANGER T6

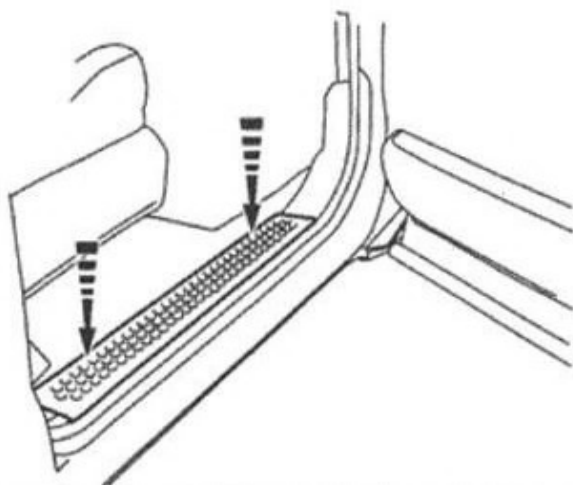
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## Introduction of magnetic inductor

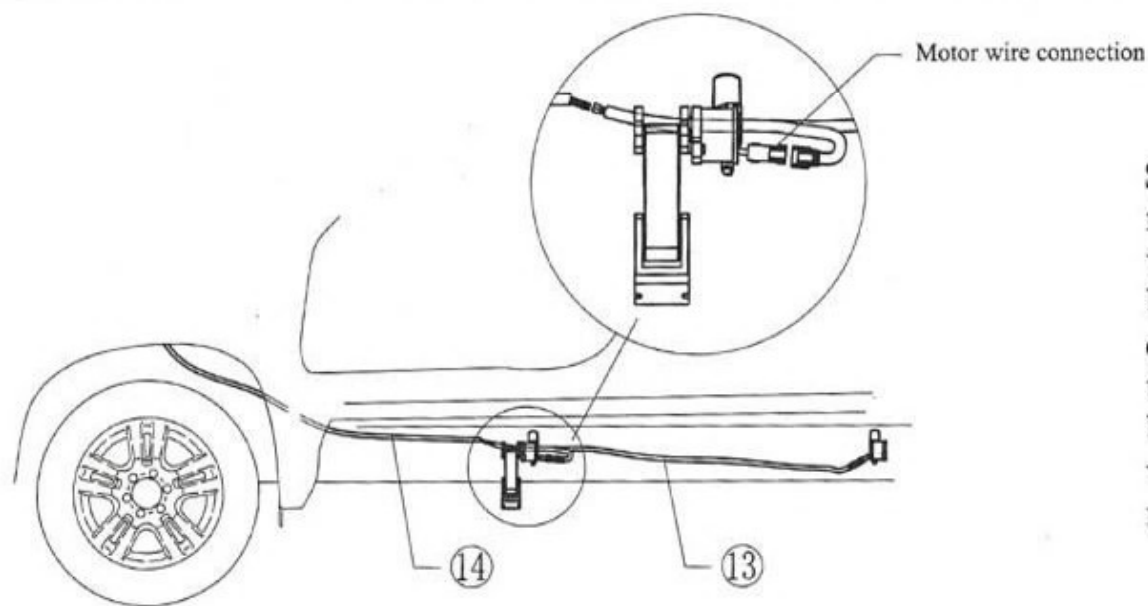


As shown in the above picture, connect signal wire of ⑭ control input wire with insulation connector A of ⑫ wire magnetic inductor, and connect terminal B with ground terminal of vehicle pillars.



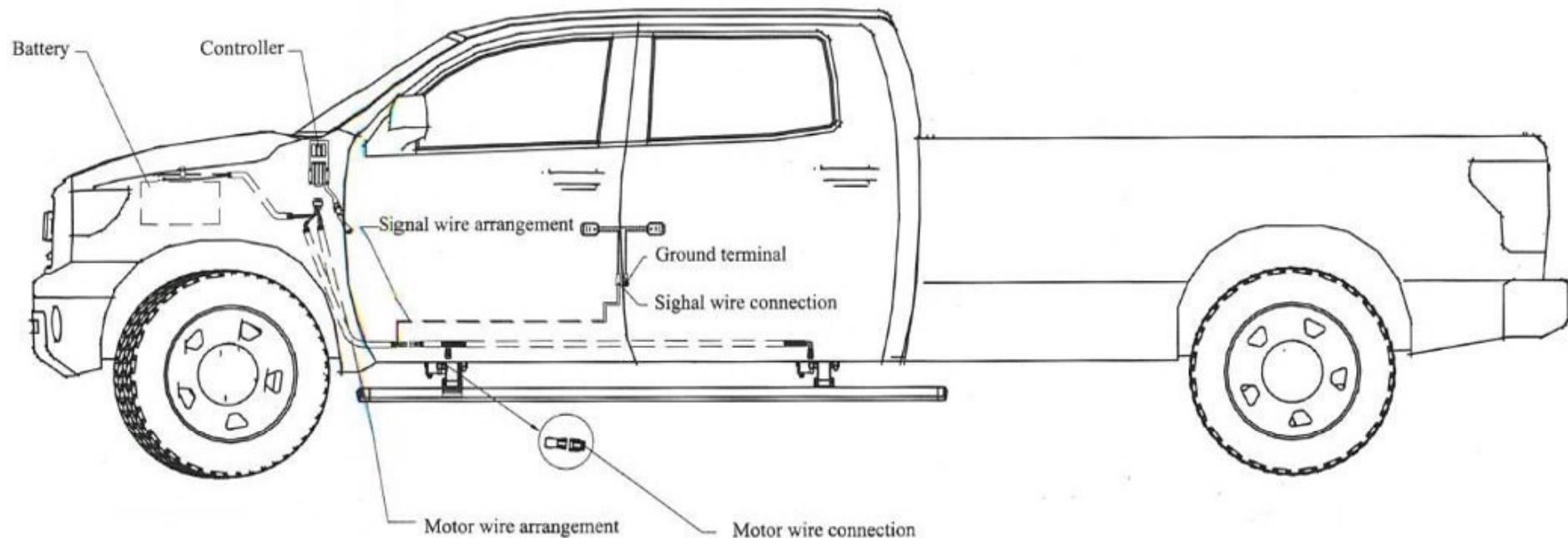


Step 7: Making the wire in order and close cover plate.



Step 8: 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 cable tie to ensure the wire is neat. Same wire installation for the other side.



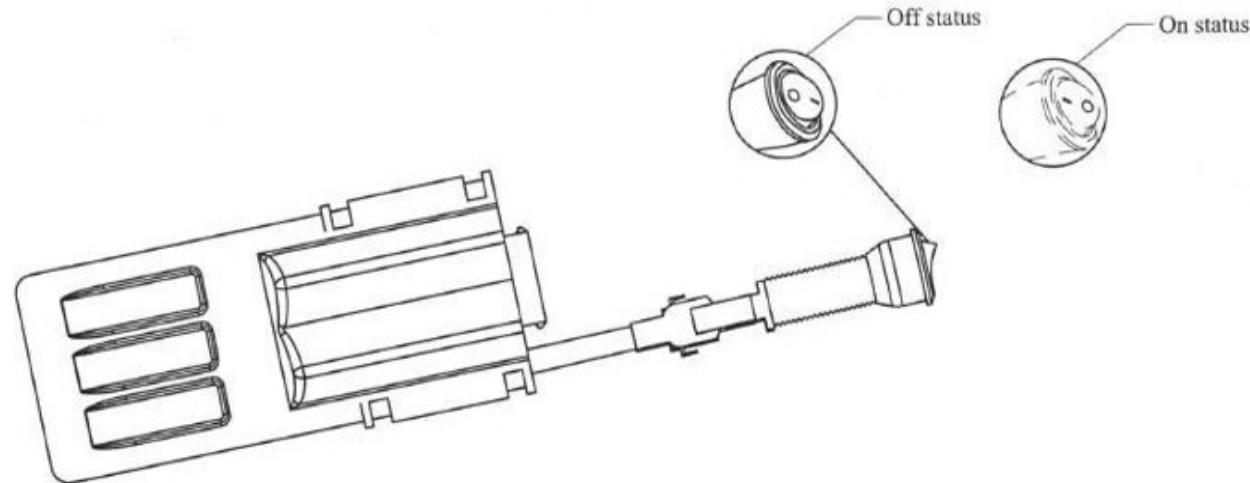


Step 9: Insert back the fuse, make the wire in order. Check if the circuits of all parts are installed completely and test if the step can work normally. If it can work normally, the step installation is completed. (If it cannot work normally, please check the installation of each part.)

Summary of electric part



## Instructions of Emergency Switch



### I. Function of emergency switch

Press the red switch button in case of any emergency or product failure to protect vehicle will not damage under these condition. Both 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!



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