

REALTRUCK[®]

INSTALLATION INSTRUCTIONS



PART NO.

- 20410125T/PC

PRODUCT DESCRIPTION

- VoltStep Electric Running Board

VEHICLE APPLICATION

- Mercedes Benz Sprinter

PRODUCT SAFETY & LEGAL DISCLAIMER

- **IMPORTANT READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY.**
- **Review the product package and contents prior to beginning the installation.** Take care when opening the packaging and removing items. If a return is needed you will want to return the product in its original packaging if possible.
- This instruction guide is provided as a GENERAL installation guide, some vehicles vary dimensionally and may require additional steps.
- Test fit the product on the vehicle prior to any third party modifications and or finishing. The manufacturer and/or distributors do not accept responsibility for third party charges, labor and or third part replacement modifications. Some modifications may void the factory warranty.
- Exercise due-diligence when installing this product. The manufacturer and distributors of this product do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product. Careless installation and operation can result in serious injury or equipment damage.
- This product is for general off-road use. All liability for installation and use rests with the owner/operator.
- **INSTALLER:** Once installation is complete, please return this guide along with other documentation included in this product back to the consumer for future reference. The manufacturer/distributors of this product do not guarantee this particular version will be available at a later date.

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INSTALLATION INSTRUCTIONS

INJURY HAZARD

Please complete a shop and tool inspection prior to beginning the installation.

- Always make sure you have a clean, dry and well lit work area.
- Always remove jewelry, loose fitting clothing and wear protective gloves and eye protection.
- Always use extreme caution when jacking or raising a vehicle for work. Set the emergency brake and use tire/wheel blocks and jack stands. Refer to the vehicle manufacturer hand book. Utilize the vehicle manufacturers designated lifting points.
- Always use appropriate and adequate care in lifting parts during disassembly and installation. Seek help in lifting heavy or large items into place. Utilize jacks and or lifting devices when available.
- Always insure products are secure during disassembly and installation.
- Always wear eye protection and take steps to protect any exposed skin during the installations. Drilling, cutting and grinding plastic and metal may create flying particles that can cause injury.
- Always use extreme caution when drilling, cutting and or grinding on a vehicle. Thoroughly inspect the area to be drilled, on both sides of material, prior to modification and relocate any objects that may become damaged.
- Always assemble and tighten all fasteners per the installation instructions.
- Always route electrical cables carefully. Avoid moving parts, parts that may become hot and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical connections.

MAINTENANCE AND CARE

- Always perform regular inspections and maintenance on mounts and related fasteners.
- Periodically check and tighten all fasteners.
- Stripped, fractured, or bent fasteners must be replaced.
- After washing the vehicle make sure to fully dry all surfaces.
- In areas with cold temperatures make sure to wash the product often to remove harmful materials used on road ways.
- Never use abrasive cleaners or polish compounds. Clean with a gentle soap and water. If you use wax use a non-abrasive automotive wax such as pure carnauba wax.

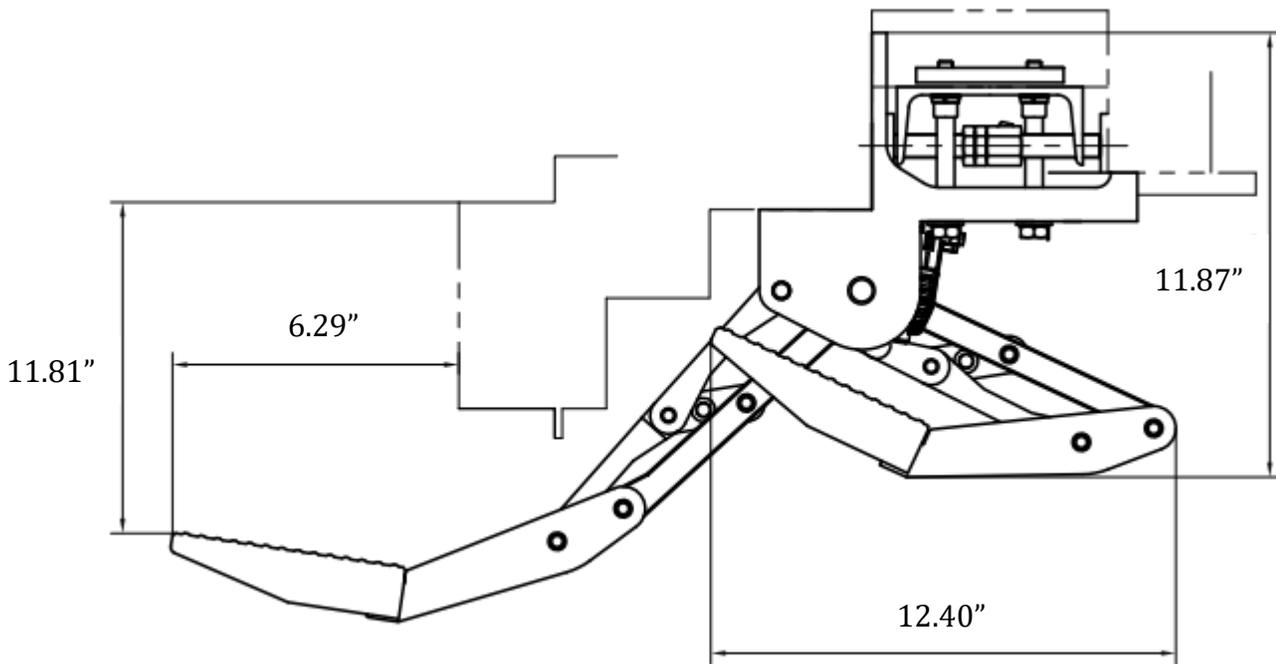
WARNING

Some products have been designed to work together with factory rear sensor systems, factory forward facing sensor systems and factory air bags.

- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by RealTruck Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, factory sensor housing, orientation, and operating conditions are all variables that will influence functionality of the sensors.
- Installation of some product may effect the factory air bag systems.
- Some products allow the use of third party products such as winches, shackles, hooks, etc. Follow the respective manufacturers operating instructions for use with our products.
- Make sure to fully understand the product, it's intended use and operation prior to use.
- Above all... be safe!



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PRODUCT TECHNICAL SPECIFICATIONS

- Rated Voltage 12V
- Load Rating: 600 lb. Per side
- Gross Weight: 55 lb.
- Horizontal Extension: 6.29" (Horizontal distance between the edge of power board and the vehicle door when the board extends)
- Step Height: 11.81" (Vertical height difference between the edge of power board and the vehicle door while board extending.)

WARNING: Keep a minimum of 10" safe distance while the RealTruck VoltStep is operating to avoid any personal injury or damage to the running boards. RealTruck VoltSteps are not designed to provide vehicle body protection. Components can be damaged by hard impact or contact with foreign objects.



INSTALLATION INSTRUCTIONS

Parts List			Parts List		
ITEM	QTY.	Description	ITEM	QTY.	Description
1	1 PAIR	BOARD	14	6 PIECE	M10 x 30mm CAP HEAD SCREW
2	2 PIECE	VoltStep MOTOR	15	4 PIECE	M16 HEX NUT
3	2 PIECE	THREADED PLATE	16	4 PIECE	M8 x 100mm HEX BOLT
4	2 PIECE	M16 THREADED STUD	17	1 PIECE	BOARD FENDER
5	2 PIECE	M16 BOLT	18	5 PIECE	ZIP TIE
6	1 PIECE	MAIN BRACKET	19	1 PIECE	WIRE CONNECTOR
7	4 PIECE	SQUARE SPACER	20	1 PIECE	CONTROLLER ASSEMBLY
8	6 PIECE	M10 LOCK WASHER	21	2 PIECE	FUSE
9	6 PIECE	M10 FLAT WASHER	22	1 PIECE	MOTOR CONNECTION HARNESS
10	4 PIECE	Tab Washer	23	1 PIECE	MAIN HARNESS
11	4 PIECE	M8 FLAT WASHER	24	4 PIECE	M8 LOCK WASHER
12	4 PIECE	M6 x 20mm CAP HEAD SCREW			
13	4 PIECE	M6 x 25mm CAP HEAD SCREW			

RealTruck recommends you, the installer, read this installation instruction manual from front to back before installing the product. You may also [click here](https://realtruck.com/installation-instructions/) to view an installation video or visit <https://realtruck.com/installation-instructions/>.

TOOLS NEEDED FOR INSTALLATION:

- 5/32" ALLEN KEY
- 5mm ALLEN KEY
- 13MM SOCKET/WRENCH
- 10MM SOCKET/WRENCH
- PRY TOOLS
- Electrical Tape
- Box Cutter
- Wrench

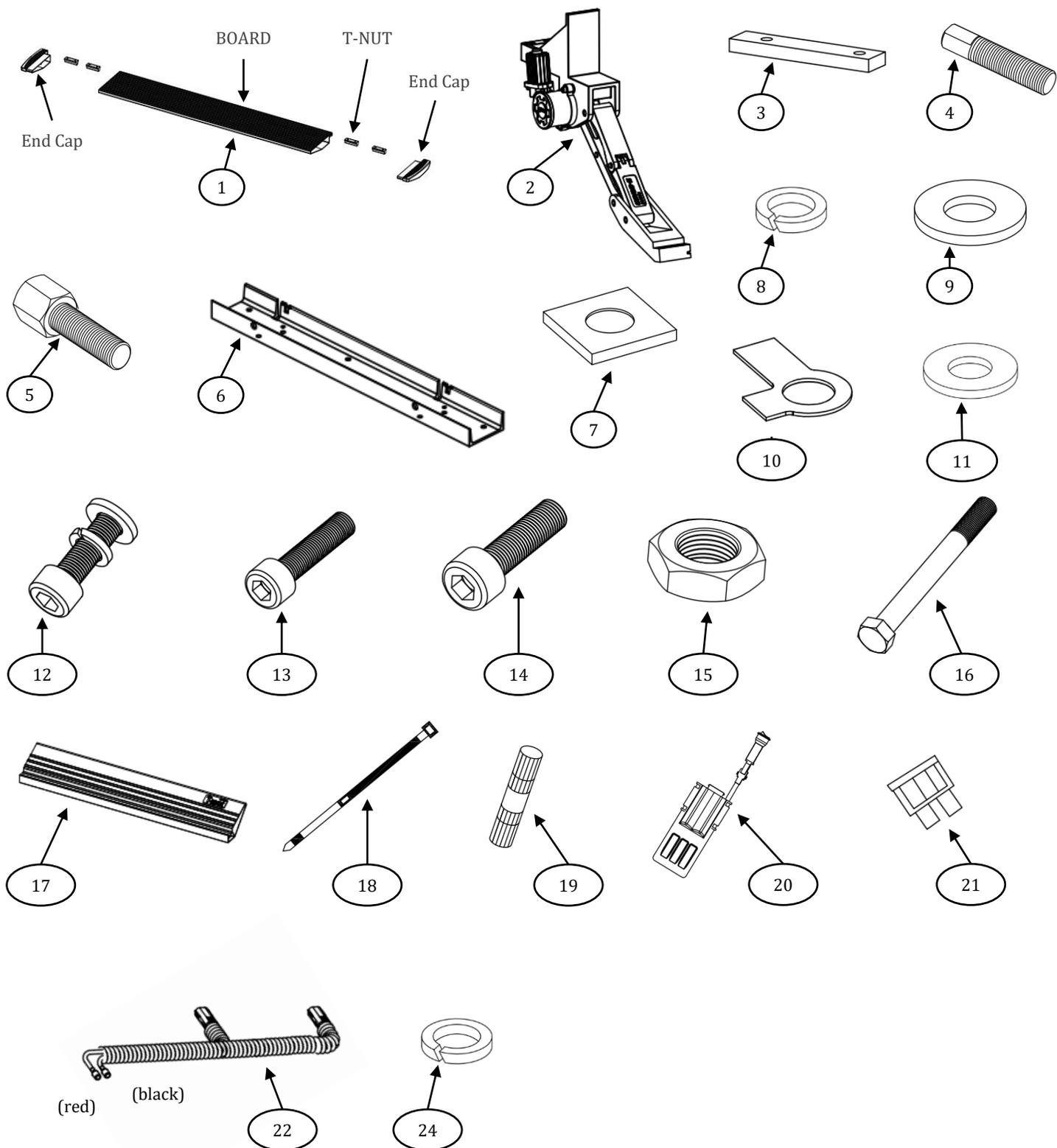
ESTIMATED TIME FOR INSTALLATION:

3 – 4 hours

If you need installation service for your new product, call the authorized distributor from whom you purchased the product or an authorized installation service company which can be found by calling toll free 1-888-427-4466

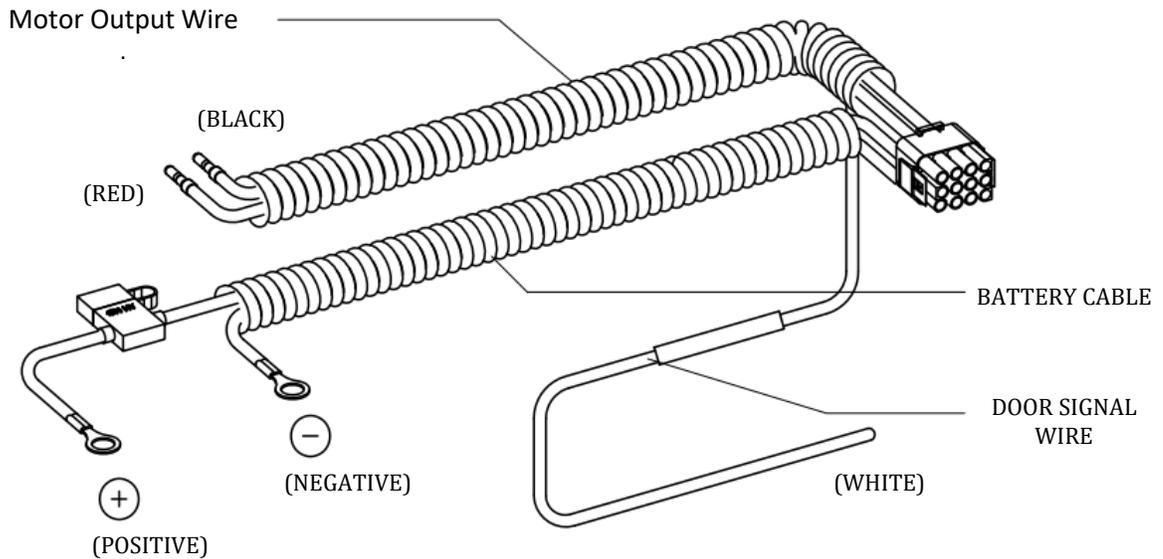
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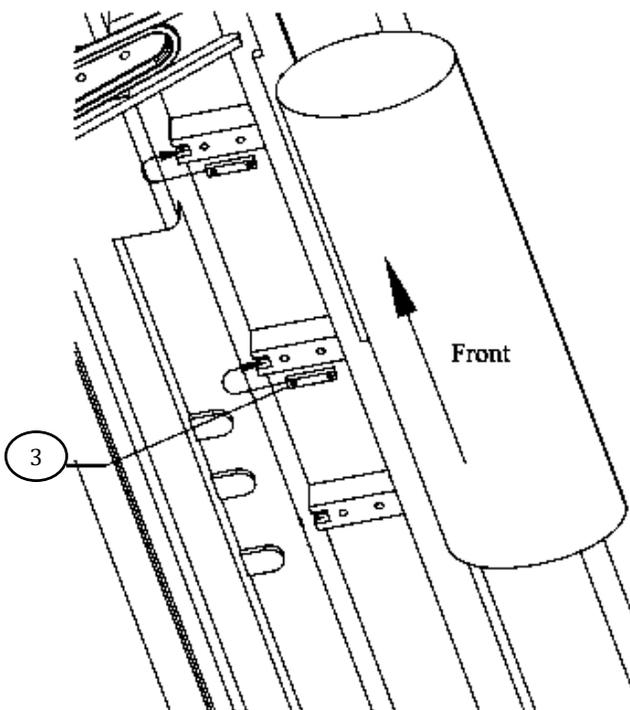
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STEP 1: Starting on the Passenger side. Locate the mounting holes under the vehicle and insert the threaded plates at the front and center as shown in illustration 1. At the rear insert the 3/8" U-bolt as shown in Figure 2. The short side is inserted through one hole and out through the other hole.

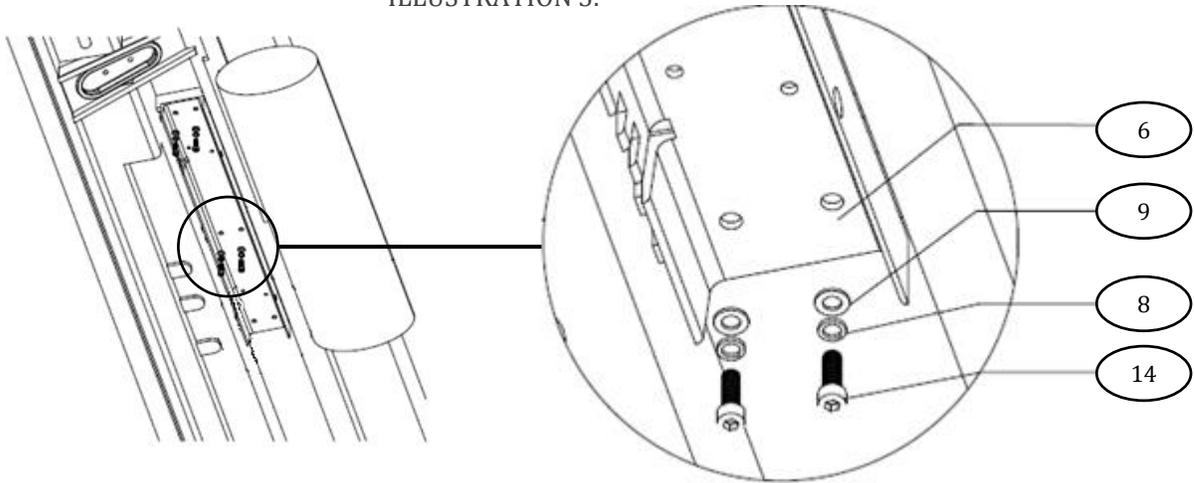
ILLUSTRATION 1.



INSTALLATION INSTRUCTIONS

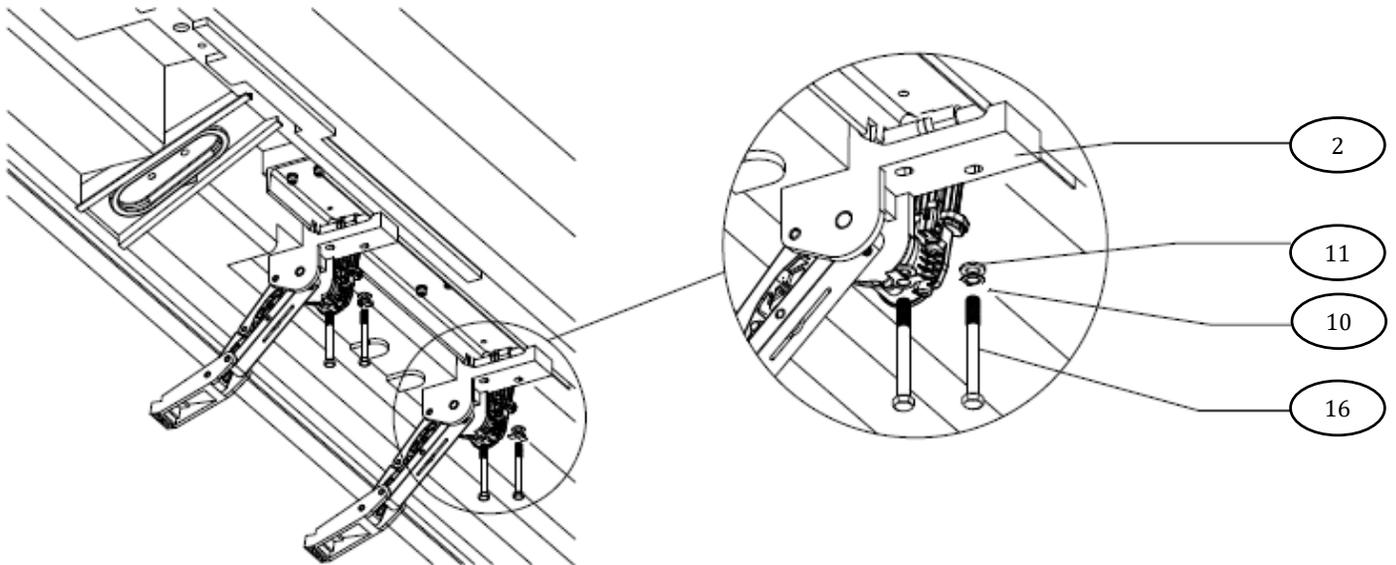
STEP 2: Place the main bracket as shown in illustration 3 and fix with: 2 flat and pressure washers M10, 2 Allen cylindrical head screws M10 x 30mm in each section, (front and center). In the rear part where I insert the 3/8" U-bolt, fix with: 2 flat washers and 3/8" pressure washers and 2 hex nuts. 3/8"

ILLUSTRATION 3.



STEP 3: Place the BOARD brackets on the main bracket as shown in illustration 4. Secure with: 2 hex head screws. M8 x 100mm, 2 flat and tab washer.

ILLUSTRATION 4.

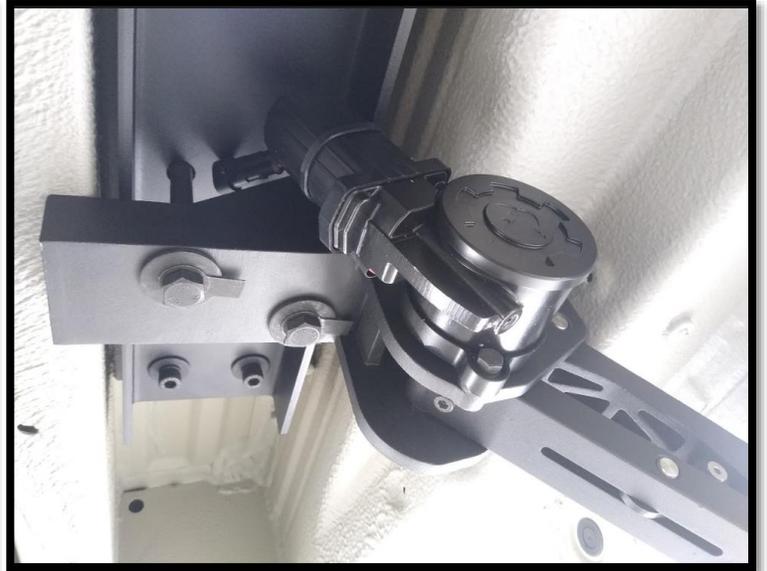


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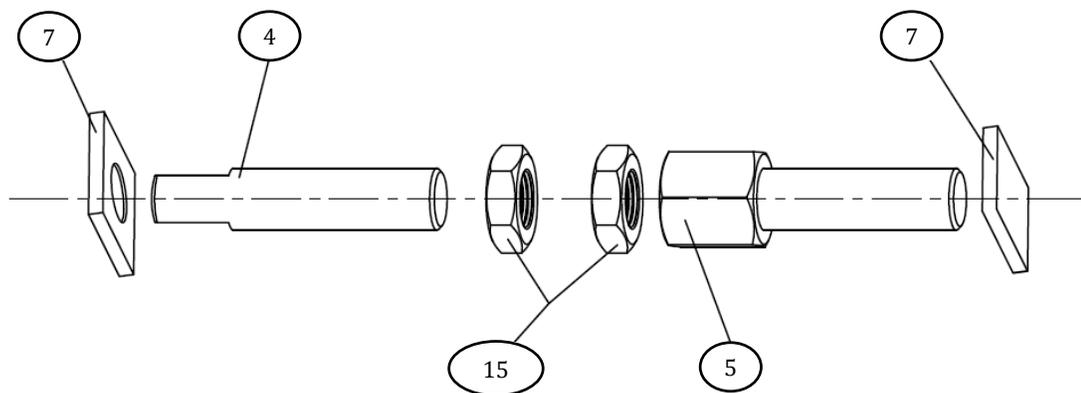
Left side mounted



Right side mounted

Step 4: Assemble 2 hex nuts, M16 to the M16 stud, then attach the stud to the screw nut and tighten the M16 nuts as shown in illustration 5.

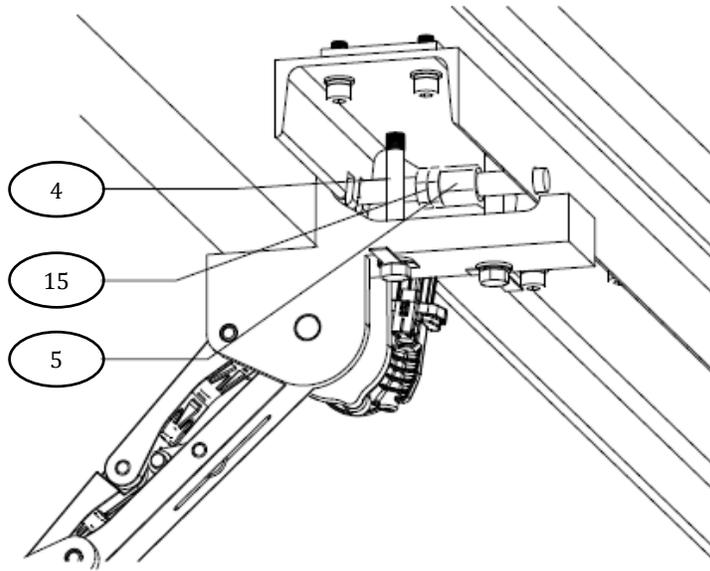
ILLUSTRATION 5.



INSTALLATION INSTRUCTIONS

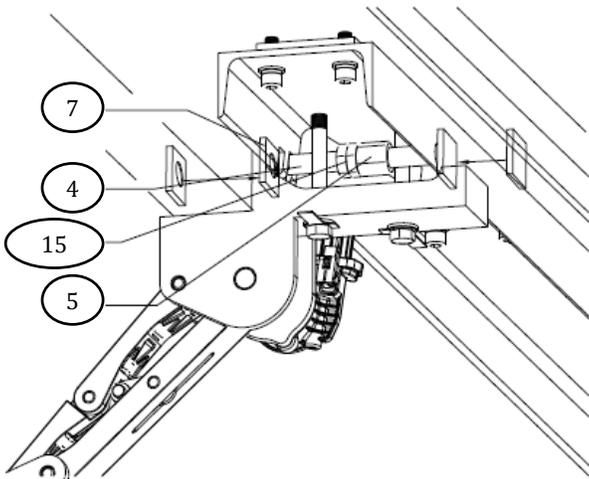
Step 5: Place the stud and bolt assembly into the main bracket holes, adjust as necessary with the remaining M16 nuts in the center of the assembly

ILLUSTRATION 6.



Step 6: Position the square spacer as shown in Figure 7, and then turn the adjusting nut to press the square spacer against the slot in the chassis..

ILLUSTRATION 7.



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Step 7: Place the Board Fender on the T-Nuts inside the foot peg and secure with M6 x 20mm bolts, M6 flat washer and M6 lock washer, as shown in illustration 8. NOTE: Make sure the Fender is centered

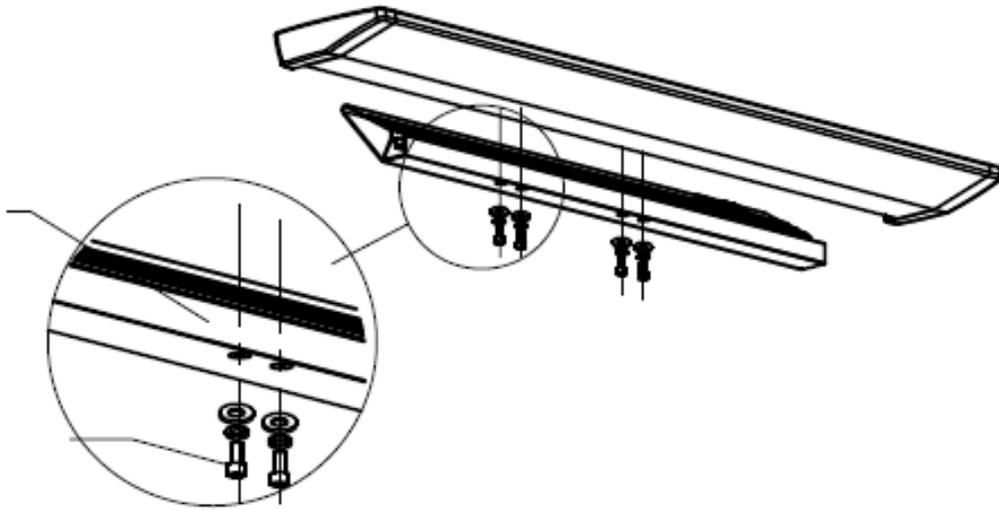
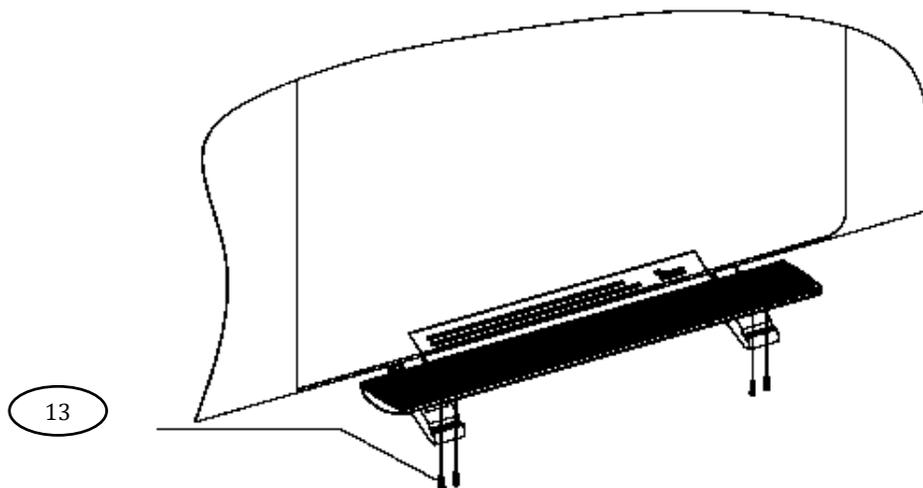


ILLUSTRATION 8.



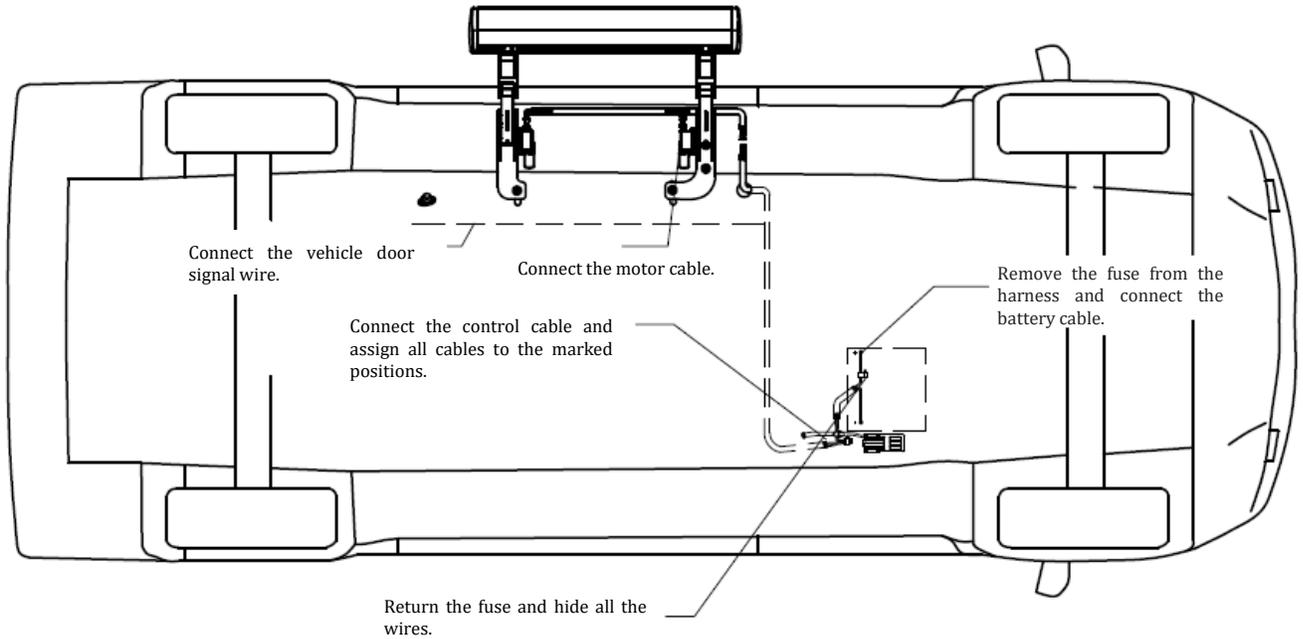
Step 8: Separate the T-nuts that are inside the bracket and place the bracket on the brackets as shown in illustration 8. Secure with M6 x 25mm screws, M6 flat washer and pressure washer.



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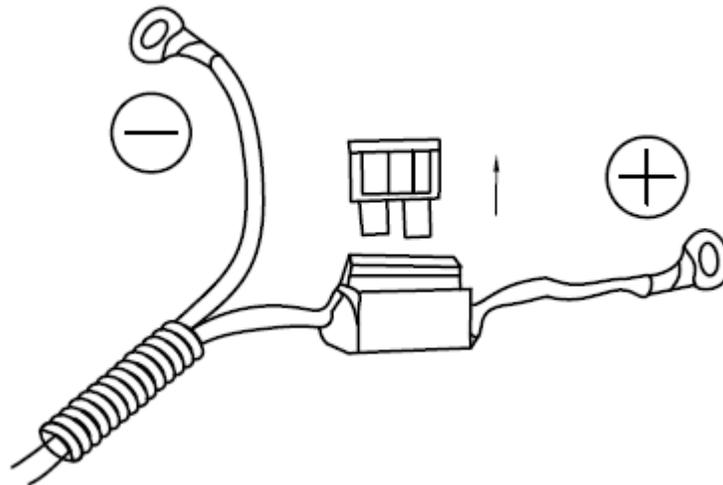
Wiring your VoltSteps

ILLUSTRATION 9.



Step 9: Remove the fuse from the harness and connect the battery cable..

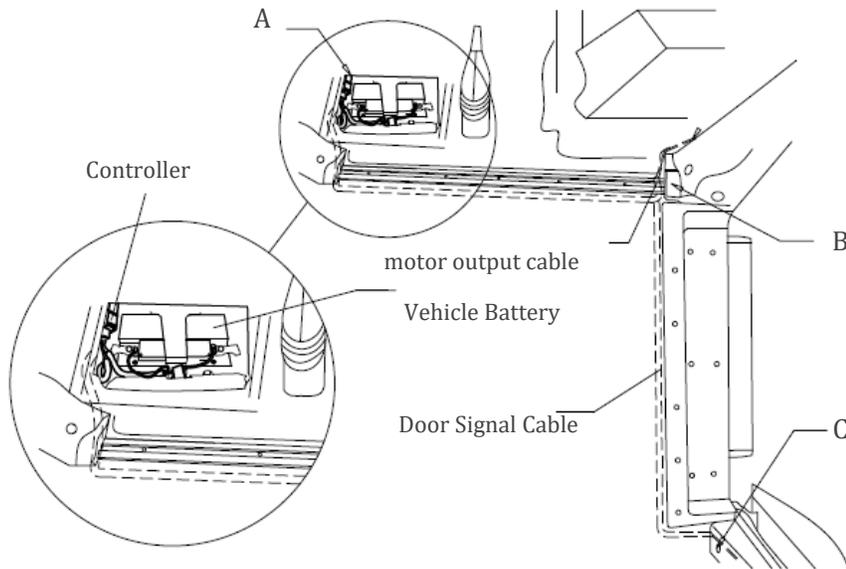
ILLUSTRATION 9.



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Step 10: Push the driver's seat forward and also push the battery cover forward, plug the control input cable into the controller assembly and connect the positive and negative terminal. The controller assembly is positioned as in illustration 9.

ILLUSTRATION 9.

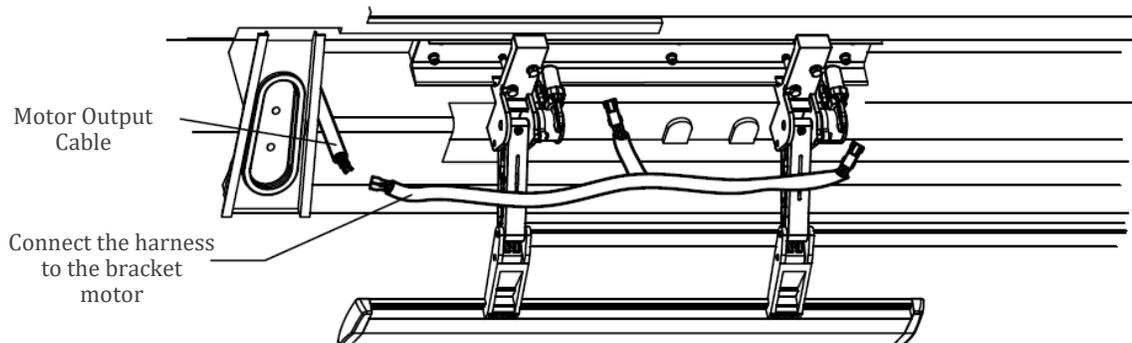


Step 11: Remove the carpet cover, and then arrange the control input cable as shown with the dotted line, pass the motor output cable through position B in the figure, and then pass the motor output cable to through the vehicle floor until you reach the bottom of the vehicle.

Step 12: Run signal wire to vehicle door switch signal position C. See illustration 9.

Step 13: Run the motor output cable out of the vehicle, and then connect the motor output cable and the motor cable. Pay attention that the wire of the same color is connected. Remove the motor cable as shown in the picture, and fix the motor cable around the vehicle frame with the cable tie, then connect the motor to the motor cable on both sides.

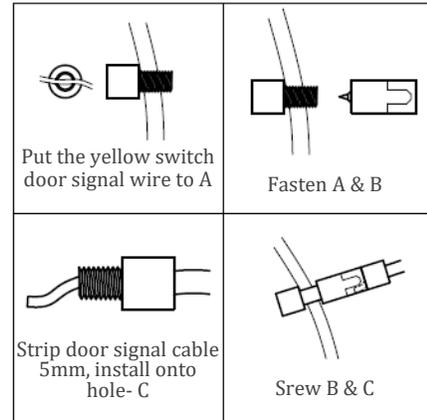
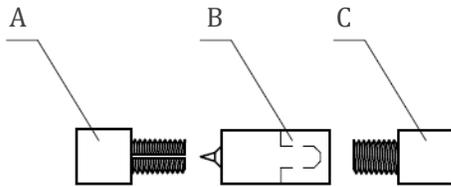
ILLUSTRATION 10.



INSTALLATION INSTRUCTIONS

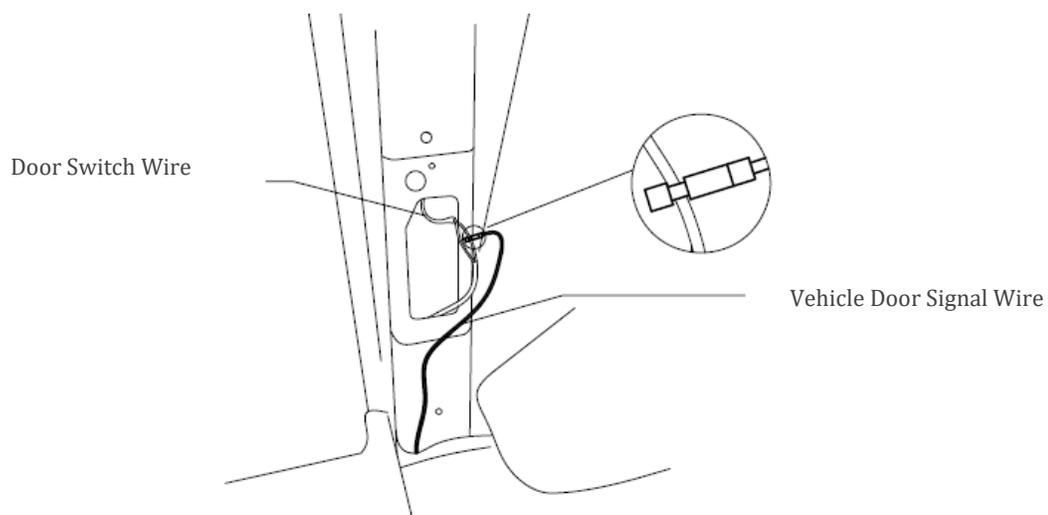
Wiring your VoltSteps

ILLUSTRATION 11.



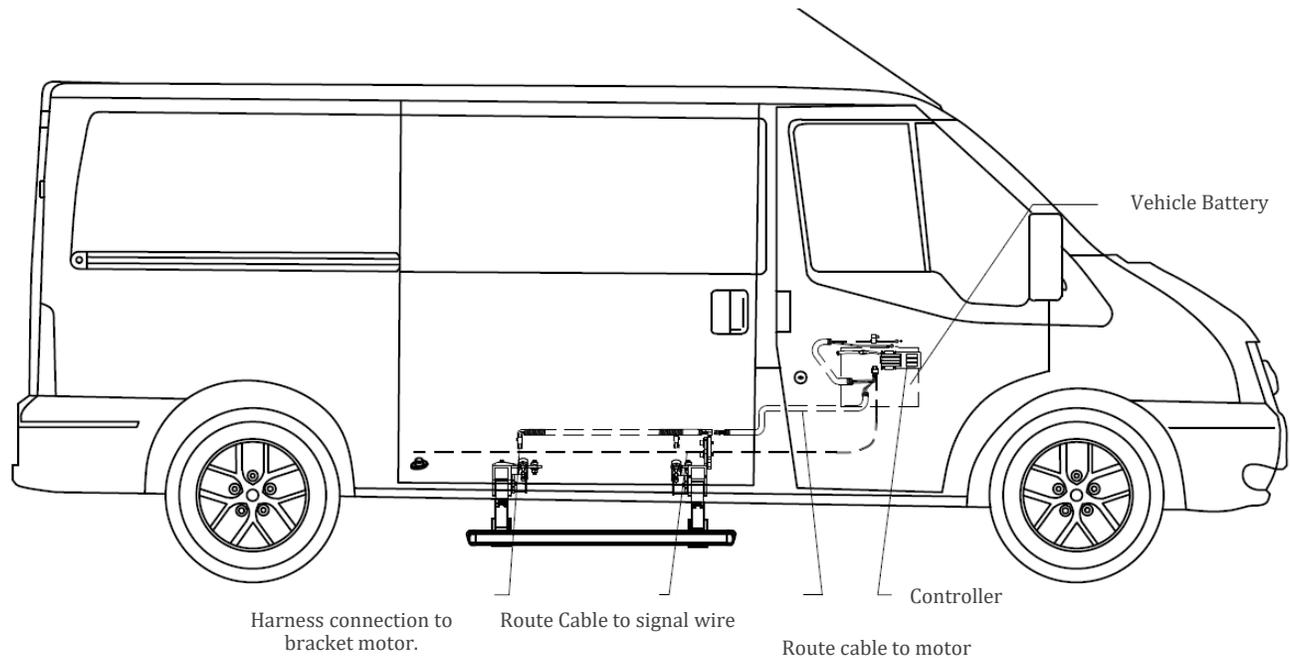
Step 14: Find the vehicle door signal wire (yellow color) and make the front part of the wire connector stick on the yellow wire. Make the middle of the cable connector puncture the yellow cable and tighten it. And then strip 5mm of the vehicle door signal wire (white color) and run the vehicle door signal from the end of the wire connector to the middle of the wire connector and tighten it.

ILLUSTRATION 12.



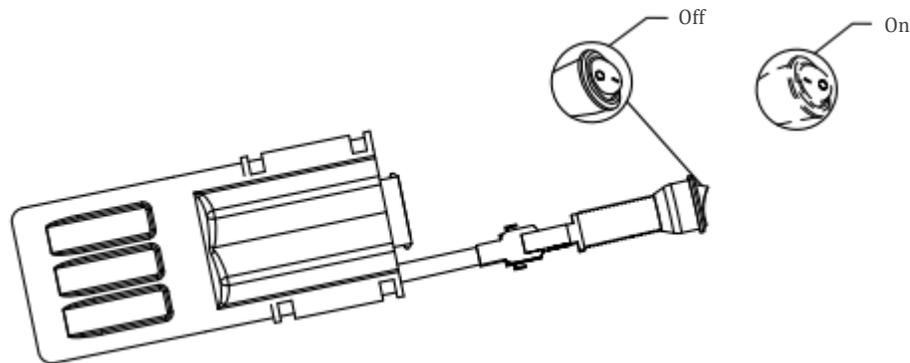
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ILLUSTRATION 13.



Paso 15: Check the emergency switch, make sure it is off, and insert the fuse back. Operate the running board if it doesn't work normally, check all the above steps according to the assembly instructions.

ILLUSTRATION 14.



Emergency switch function.

Please press the red switch button in case of emergency or product failure to protect the vehicle will not be damaged under these conditions. Both boards will return automatically while the emergency switch button is on



INSTALLATION INSTRUCTIONS

Emergency switch function.

Please press the red switch button in case of emergency or product failure to protect the vehicle will not be damaged under these conditions. Both boards will return automatically while the kill switch button is on. The condition for using the emergency switch:

- 1.- Product failure.
- 2.- The user needs the power board not to work while thinking about the on-road/off-road situation.
- 3.- Do not use the power board if the motor link or control cable is damaged.

Using the emergency switch

- 1.- Press the emergency switch button and the emergency switch is ON and at the same time, the power board will automatically return and stop working. In case of product failure, contact after-sales service.
- 2.- Press the emergency switch button again, and the emergency switch will turn off, and at the same time, the power board will return to its normal working state.
- 3.- The original state of the emergency switch is OFF.



INSTALLATION INSTRUCTIONS

LIMITED WARRANTY

RealTruck Automotive warrants to Buyer that for a period of five (5) years from the date of shipment of the product(s) ("Warranty Period") for black finishes and chrome finishes, that such products will materially conform to the specifications set forth in RealTruck Automotive's specifications in effect as of the date of shipment(s) and will be free from material defects in material workmanship.

RealTruck Automotive warrants to Buyer that for the life of the product(s) from the date of shipment of the product(s) ("Warranty Period") for polished stainless steel finished products purchased after April 2004, that such products will materially conform to the specifications set forth in RealTruck Automotive's specifications in effect as of the date of shipments and will be free from material defects in material workmanship.

Warranty claims must be accompanied with the original invoice and photos of the product. It is the customer's responsibility to clean regularly and protect finish with regular applications of a nonabrasive polish that is compatible with the product's finish.

This warranty covers the cost of the product only and does not include the cost of removal, installation, third party modifications or shipping of the product. In no event shall RealTruck Automotive be liable to buyer or any third party for any damage or harm caused by the product or use thereof, regardless of weather such damages were foreseeable and whether or not RealTruck Automotive has been advised of the possibility of such damages, notwithstanding the failure of any agreed or other remedy of its essential purpose. This warranty is void if the product shows signs of alteration, misuse, mishandling, improper care, neglect, improper application and/or damage due to improper installation.

With respect to any such product(s) during the limited warranty period, RealTruck Automotive shall, in its sole discretion, either: (i) provide a one-time repair or replacement of such products (or the defective part) or (ii) credit or refund the price of such products at the pro rata contract rate provided that, if RealTruck Automotive so requests, Buyer shall, at RealTruck Automotive's expense, return such product(s) to RealTruck Automotive. The remedies shall be the Buyer's sole and exclusive remedy and RealTruck Automotive's entire liability for any breach of the limited warrant(ies).

RealTruck Automotive disclaims all other warranties except to the extent that any such warranty cannot be validly disclaimed under applicable law.

Finish Limited Warranty:

Limited lifetime on stainless steel products (after April 2004)

5 year warranty on black powder coat products

5 year warranty on chrome products

This warranty does not cover exposed welds

Electronics Limited Warranty:

1 year warranty VoltStep Motors or electronics

Finish warranty covers peeling, flaking, or cracking. Washing all finishes regularly with car wash soap and rinsing well with water is the best method for maintaining the finish on your products. You must also protect the finish with nonabrasive automotive wax on a regular basis. The use of any compound which contains abrasives becomes a self-defeating exercise as the compound scratches the finish and opens it to corrosion. The use of harsh chemicals used to remove bugs and tar may also cause the finish to fail and should be avoided.

If you are unsatisfied with your purchase please contact the establishment you purchased the product from.

If you need to place a warranty claim or need assistance, the RealTruck Automotive customer service team will answer any questions you may have. Please contact the RealTruck Automotive customer service team at 1-888-427-4466 during normal business hours Monday thru Friday 7 am to 5 pm PST. You may also email <https://realtruck.com/contact-realtruck-com>. In order to better serve you please provide a copy of the original invoice / receipt, a photo of the issue you are experiencing and a photo of the vehicle the product is installed on.

All warranty returns must have an approved RGA number. The RGA number must be clearly marked on the exterior of the return package. All approved warranty returns must be shipped to RealTruck Automotive Products, 1002 Carriers Drive, Laredo, Texas 78045.

PRODUCT REGISTRATION

Please remember to register your new purchase. You may register your product at <https://realtruck.com/warranty-registration>

. Registering your product may help speed any future warranty or customer service inquiries.

Thank you again for purchasing from RealTruck Products

Please take a few minutes to view additional products for your vehicle and more at realtruck.com
These installation instructions are available on the Real Truck web site along with installation videos for many of our products.