

## Installation Instructions PowerBoard

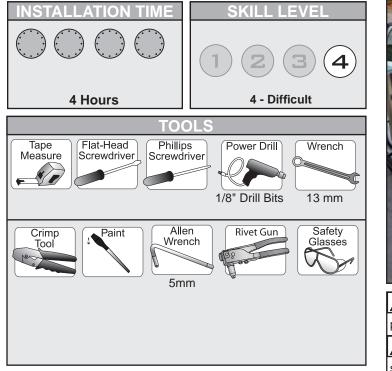
Automatic Retracting Running Board

#### Vehicle Application

• Dodge Ram Quad Cab Pickup 2002 - 2008 Part Number: 75101-15 • Dodge Ram Mega Cab Pickup 2006 - 2009 Part Number: 75118-15

• Dodge Ram Quad Cab Pickup, 2500 / 3500 / HD 2003 - 2009 Part Number: 75101-15

www.Bestop.com - We're here to help! Visit our web site and click on "Ask a Question". Click here for more Truck Accessories by Bestop.



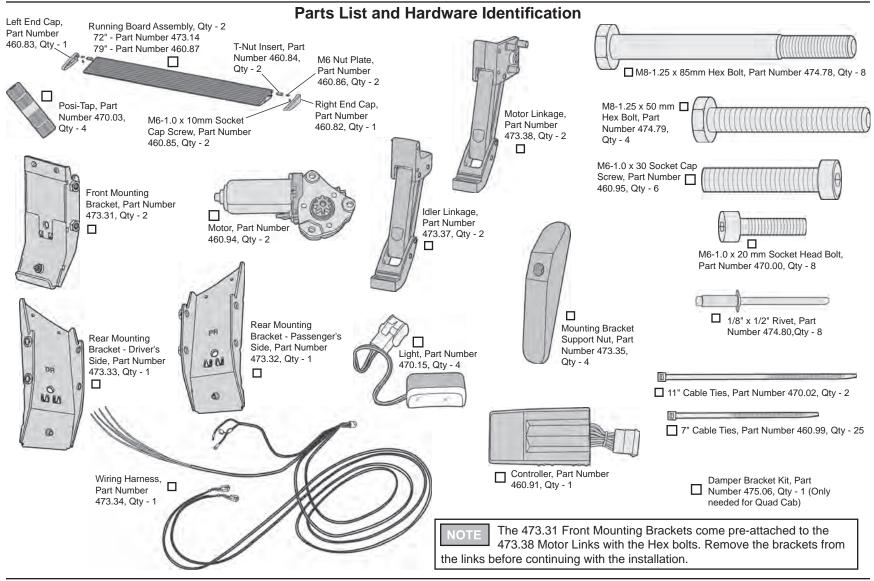


**WARNING** Failure to carefully follow the electrical installation steps could result in severe electrical shock which could harm the installer and/or damage the vehicle.

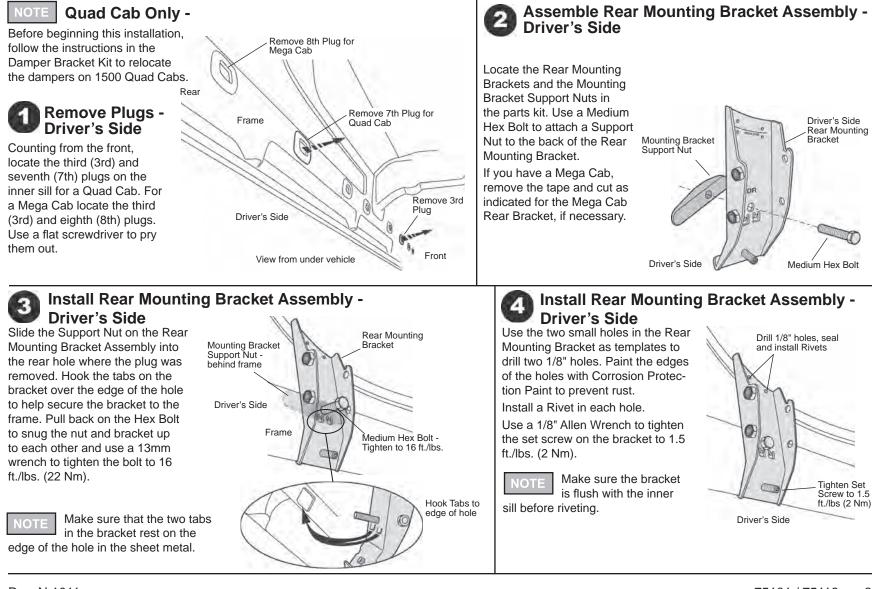
# WARNING Do not rely in any way on the components of this product to protect against injury or death in the event of an accident. Never operate the vehicle in excess of manuracturer's specifications.

#### WEAR SEAT BELTS AT ALL TIMES

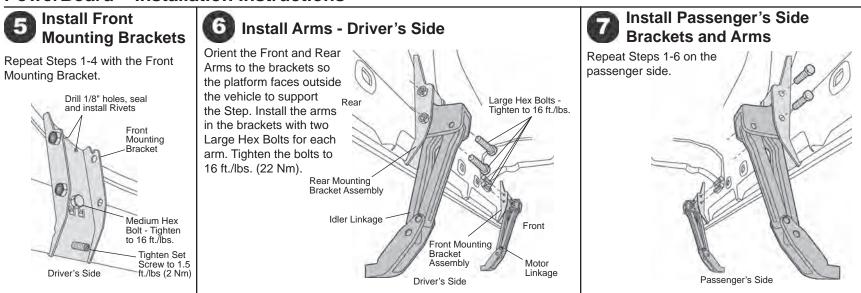
Read and follow, precisely, all installation instructions provided when installing product. Failure to do so may result in a poor fit and could place occupants of the vehicle in a potentially dangerous situation.



Rev. N 1011

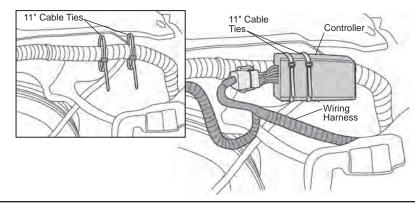


Rev. N 1011



## **Install Controller and Wiring Harness**

Loosely wrap 11" Cable Ties around harness in engine compartment. Slide the Controller through the Cable Ties and tighten. Attach the Wiring Harness to the Controller.



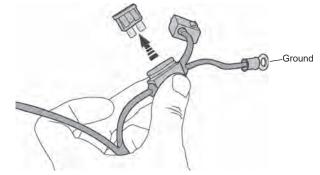


**WARNING** Remove the fuse from the Wiring Harness.



### **Remove Fuse from Wiring Harness**

Remove the fuse from the Wiring Harness. Failure to do so could result in severe electrical shock which could harm the installer and/or damage the vehicle.

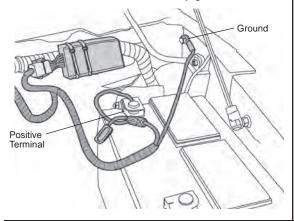


Rev. N 1011



## 10 Attach Power Leads

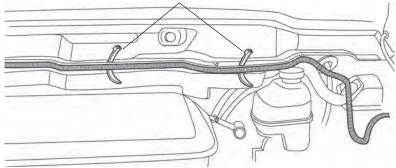
Attach the read power lead to the positive battery terminal and black lead to the body ground.



#### **(1)** Secure Wiring Harness

Route the longer leg of the harness that terminates in a plug across the front of the engine compartment and down to the motor on the passenger side step. Route the shorter leg to the motor on the driver's side step. Use the 7" Cable Ties in the parts kit to secure the harness out of the way.

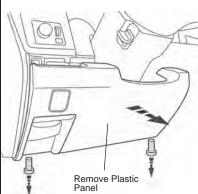
Use 7" Cable Ties to secure Wiring Harness

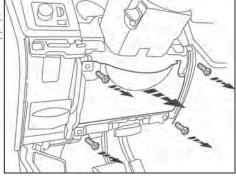


# 12 Install Wiring Harness Route the leg of the Wiring Harness with the unterminated wires down to the grommet access through the firewall. Drill a hole in the grommet and feed the wires O Underside of Vehicle

## Remove Plastic Panels

Remove the plastic panels below the steering wheel. Remove the metal panel under the plastic panel. Model years 2002 - 2005 will not have this panel.



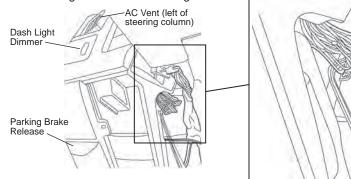


Rev. N 1011

through the firewall.

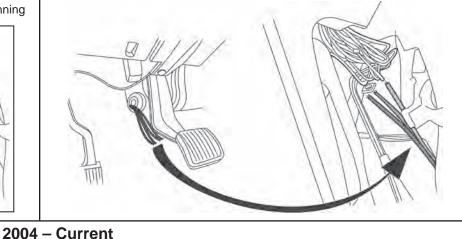
## 14 Locate Wiring Harness

Locate the bundle of wires high and to the left of the steering column, behind the dash light dimmer switch. 2002 - 2005 model years will find this bundle running down the right side of the steering column.



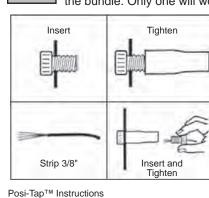
## 15 Install Wiring Harness

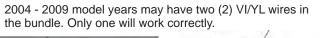
Pull the unterminated wires of the harness up to the harness.





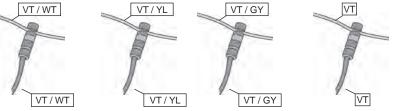
Use the Posi-Taps<sup>™</sup> to splice the PowerBoard trigger wires into the door ajar wires indicated for your vehicle model year.

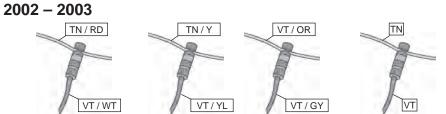




VT / WT

NOTE





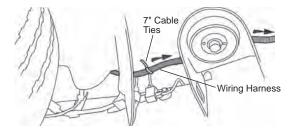
Occasionally the actual wire color may be different than stated here. You will need to install to the motor and test each wire until you find the wire that functions correctly.

Rev. N 1011



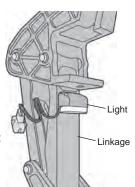
## Install Wiring Harness

Route harness to motors and secure under vehicle with 7" Cable Ties.



## 18 Install Lights

Clean the outboard surface of the of the Linkage below the bottom mounting bolt. Peal the adhesive liner off the back of the Light and firmly press it 1/8" below the mounting bolt. Plug the light into the connector with the black and orange wires in the wire harness. Repeat with the other three lights. Secure lose wires with Cable Ties.

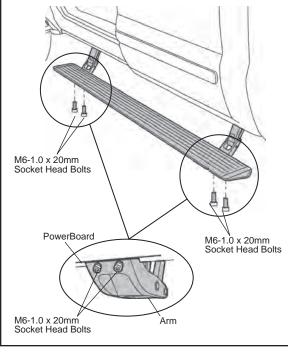


## 22 Install Running Boards

Mount the Steps to the linkages. Slide the mounting T-Nut into position. Install M6-1.0 x 20mm Socket Head Bolts to secure the boards. Use a 5mm Allen Wrench to tighten the bolts.

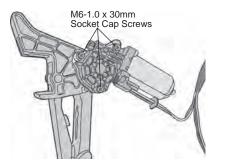
Make sure the board moves up and down freely by hand. If it binds, loosen the linkage to body attachment bolts and adjust the linkage position until the boards move freely. **Do not tighten the bolts at this time.** 

**NOTE** Tightening the fasteners before cycling the step several times may create a bind, causing a squeaking sound and preventing the boards from retracting completely and evenly.



# 20 Install Motor

Slide Motor assembly onto drive shaft and mounting bosses of Motor Linkage assembly. Use three (3) M6-1.0 x 30mm Socket Cap Screws to secure Motor. Plug female connector into Motor. Wrap any exposed wires from the motor with electrical tape.





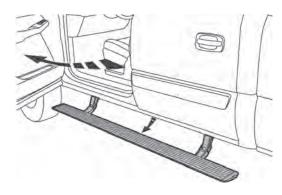
Reinstall the fuse in the harness.

## Test Doors and PowerBoards

Open the doors to make sure that the PowerBoard drops into position on each side of the vehicle.

Reinstall any remaining trim panels.

## Cycle boards several times and then fully tighten all bolts.



#### PowerBoard Troubleshooting

#### Issue:

Possible cause

#### Boards do not operate:

- Connected to incorrect vehicle wire
- Wire connections not secure
- Fuse burned
- Factory door-ajar circuit inoperable

#### Board creaks or squeaks during operation:

- Gear shaft wedge bolt is loose
- Loosen mounting bracket and board attachment screws. Adjust linkages so they are parallel to each other and the noise is gone. Tighten all fasteners.

#### Intermittent operation:

- Wire connections not secure
- Bad ground
- Bad battery connection

#### Boards operate randomly:

- Wire connections not secure
- Connected to incorrect vehicle wire

## Board stays down all the time and can be moved by hand:

- Gear shaft wedge screw is missing or loose
- Board shakes and or shutters during operation:

#### Bad ground

- Wire connections not secure
- Bad battery connection

## One or more doors operate the board and other do not:

• Wire connections not secure

### **PowerBoard Service Tips**

# Confirming PowerBoard is functional-black controller:

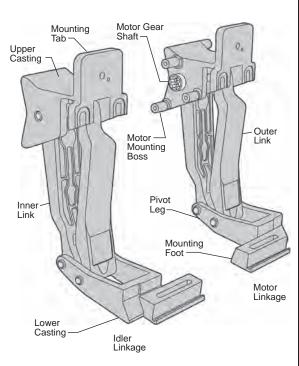
To test if the black controller (460.91), wire harness, motor and lights work, hook up to battery and touch any of the 4 door trigger wires to ground. The board for that side should go down and the lights should turn on. The board should go up and the lights should turn off when the wire is removed from ground.

# Boards don't operate correctly when connected to wires identified in instructions:

Unfortunately vehicle manufactures do not consistently keep the same wire colors in their wire harnesses. The PowerBoard trigger wires need to be connected the factory door-ajar wire that is connected to each door latch switch. The correct wire is likely in the same bundle that is identified in the instructions. If none of them work you can locate the correct wire by removing the door panel and tracing the wire bundle that leads to the door latch.

Use an ohm meter or continuity tester to find the doorajar wire on PowerBoards with black controllers. The correct wire will go from neutral to ground when the door is opened and return to neutral when the door is shut. Connect one test lead to the negative battery terminal and probe the wires with the other lead. You can use a pin or a Posi-Tap connector to pierce the wire insulation. The correct wire will make the tester go from no continuity to complete continuity when the door opened and return to no continuity when the door is shut. You can also shut the door latch with the door open by pushing on the latch catch with a screw driver.

### Linkage Component Identification



### LIMITED WARRANTY

We warrant our product to be free from defects in material and workmanship, for the terms specified below, provided there has been normal use and proper maintenance. This warranty applies to the original purchaser only. All remedies under this warranty are limited to the repair or replacement of any item or items found by the factory to be defective within the time period specified. If you have a warranty claim, first you must call our factory at the number below for instructions. You must retain proof of purchase and submit a copy with any items returned for warranty work. Upon completion of warranty work, if any, we will return the repaired or replaced item or items to you freight prepaid. Damage to our products caused by accidents, fire, vandalism, negligence, misinstallation, misuse, Acts of God, or by defective parts not manufactured by us, is not covered under this warranty.

THE WARRANTY TIME PERIOD IS AS FOLLOWS FOR ALL PowerBoards MANUFACTURED BY OUR COMPANY: THREE YEARS / 36,000 MILES FROM DATE OF PURCHASE.

ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE CREATED HEREBY ARE LIMITED IN DURATION TO THE SAME DURATION AND SCOPE AS THE EXPRESS WRITTEN WARRANTY. OUR COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Bestop

For further information or request for warranty work, please contact: Bestop Inc. Customer Service Toll-Free: (800)845-3567 Main: (303)465-1755 E-mail: csbestop@Bestop.com Website: www.Bestop.com