



Installation Instructions

PowerBoard



Automatic Retracting Running Board



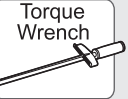

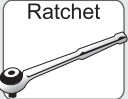
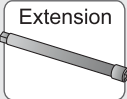
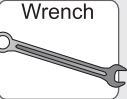
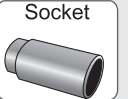



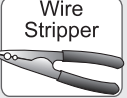



Vehicle Application

•Chevy Silverado/GMC Sierra Extended Cab
2007 and newer
(excluding 2011 Diesels)
Part Number: 75123-15

•Chevy Silverado/GMC Sierra Crew Cab
2007 and newer
(excluding 2011 Diesels)
Part Number: 75126-15

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INSTALLATION TIME	SKILL LEVEL
	
4 Hours	4 - Difficult

TOOLS				
 Tape Measure	 Flat-Head Screwdriver	 Torque Wrench	 Power Drill 9/32" Drill Bit	 Ratchet
 Extension	 Wrench 13 mm	 Socket 10 mm, 13 mm	 Allen Wrench 5 mm	 Crimp Tool
 Wire Cutters	 Wire Stripper	 Electrical Tape	 Silicone Sealant	 Safety Glasses



! WARNING The manufacturer strongly recommends that this product be professionally installed.

! 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.

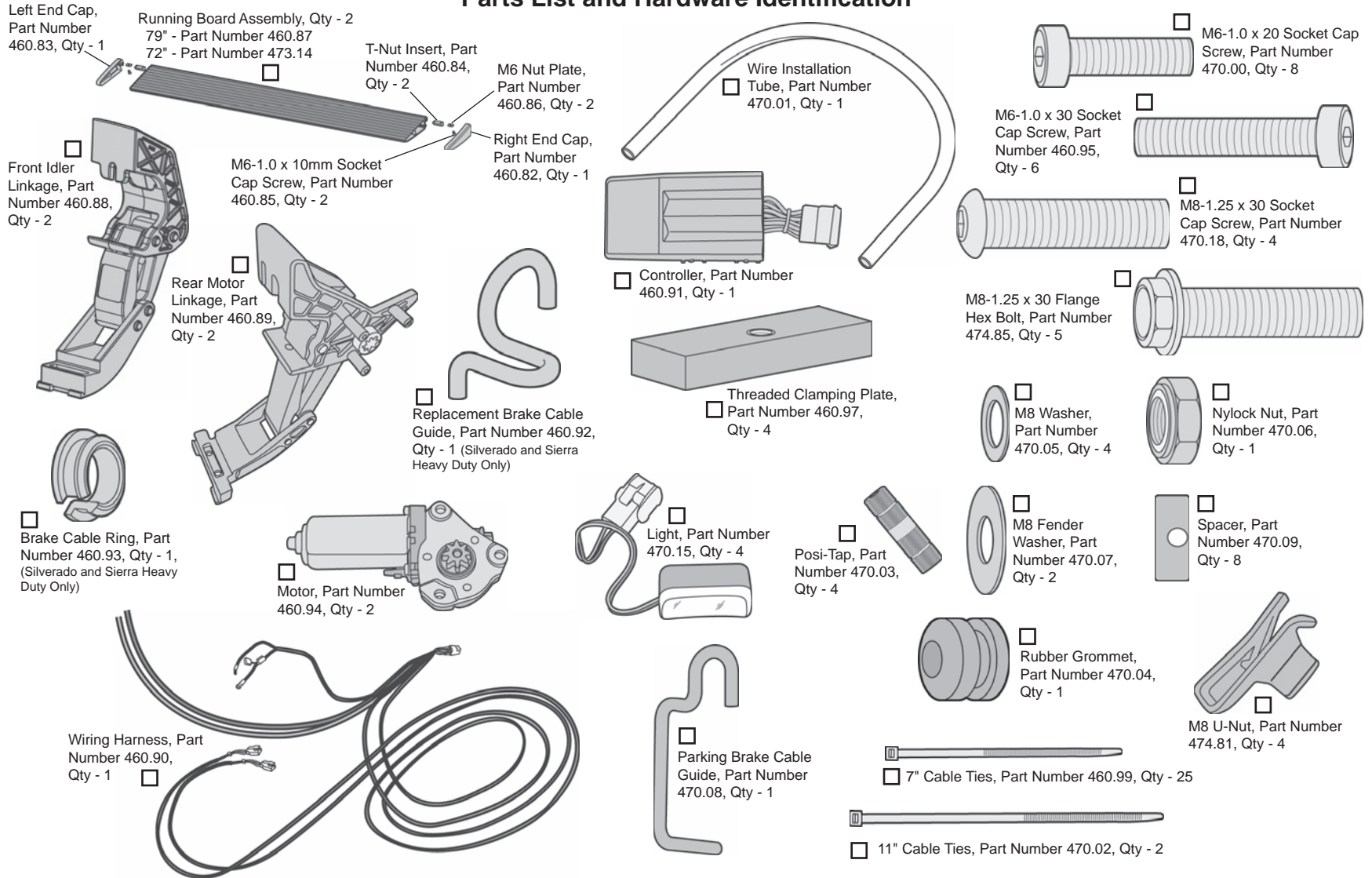
! WARNING Do not rely in any way on the components of this product to protect against injury or death in the event of an accident. Never operate the vehicle in excess of manufacturer's specifications.

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.

PowerBoard – Installation Instructions

Parts List and Hardware Identification



PowerBoard – Installation Instructions

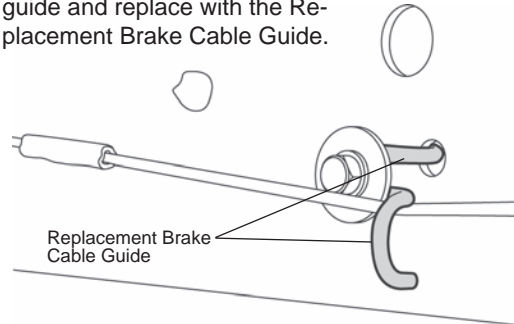
NOTE Steps 1 and 2 are for HD 2500 and 3500 only. For all other vehicles skip to Step 3.

Short Bed
Step 1 only.

Long Bed
Steps 1 and 2.

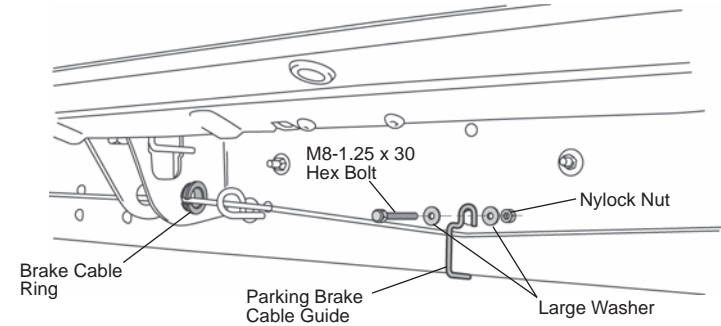
1 Heavy Duty Trucks Only Install Replacement Brake Cable Guides

Remove the forward brake cable guide and replace with the Replacement Brake Cable Guide.



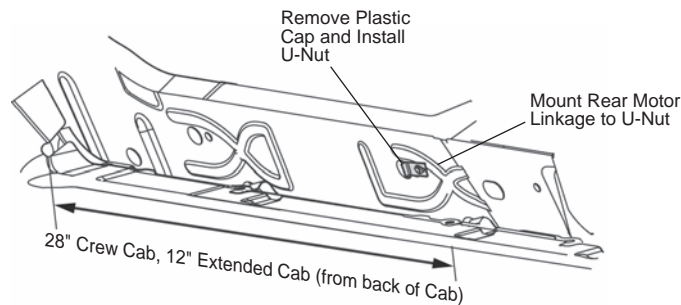
2 Heavy Duty Long Bed Only Install Brake Cable Ring and Parking Brake Cable Guide

Install Brake Cable Ring in rear of middle body mount. Install new Parking Brake Cable Guide in existing frame hole as shown.



3 Install Rear Motor Linkage

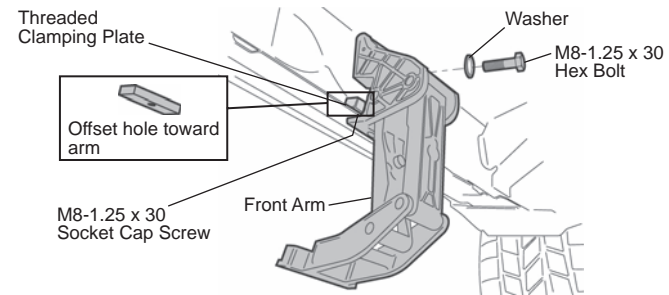
Remove the plastic cap and install a U-Nut in fourth sheet metal tab / hole from front. Mount driver side Rear Motor Linkage to U-Nut so that the Arm will clear parking brake cable..



4 Install Front Idler Linkage

Install driver side Front Idler Linkage in first sheet metal tab / hole from front. Install Threaded Clamping Plate on top of pinch weld. Thread M8-1.25 x 30 Socket Cap Screw into clamping plate and torque to 16 ft-lbs. (22 N m). Then install an M8-1.25 x 30 Hex Bolt and Washer. Finger tighten only. Repeat Steps 3 and 4 to install the passenger side Linkages.

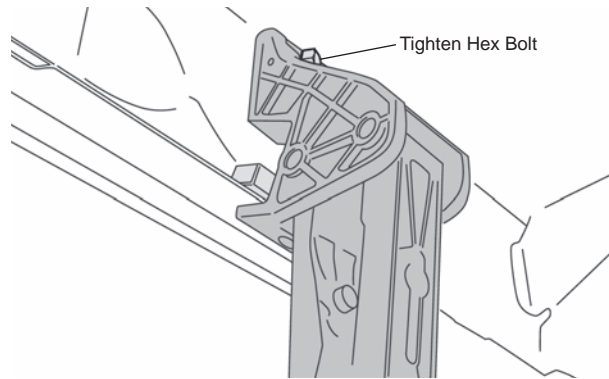
NOTE If there is a weld nut at this location, do not use the Threaded Clamping Plate.



PowerBoard – Installation Instructions

5 Tighten Front Idler Linkage

Tighten fastener (12) from Step 3 to 16 ft-lbs. (22 N m).

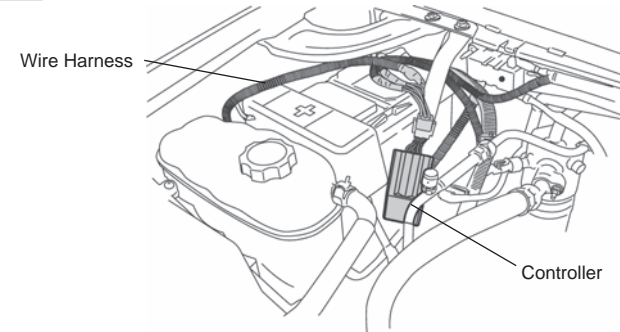


6 Install Controller and Wire Harness

Use the two (2) 11" Cable Ties to mount the Controller to the support arm next to the battery (behind the support arm on diesel engines).

Plug in the Wire Harness. Make sure that the locking tabs engage.

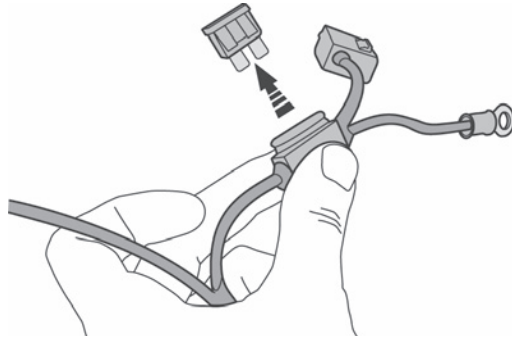
NOTE On hybrid models mount the Controller on the driver's side.



! WARNING Remove the fuse from the Wiring Harness.

7 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.

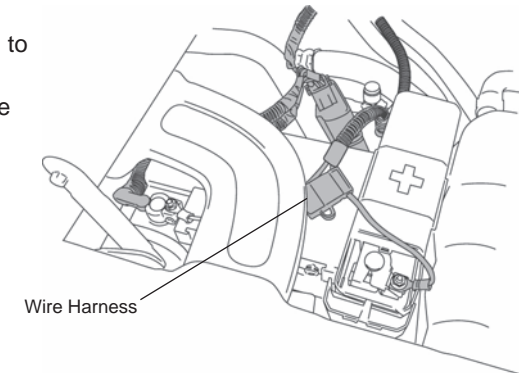


! CAUTION Do not ground wrench when engaged with nut.

8 Attach Leads

Attach power lead (RED wire) to positive pole on the battery.

Attach ground lead to negative battery pole.

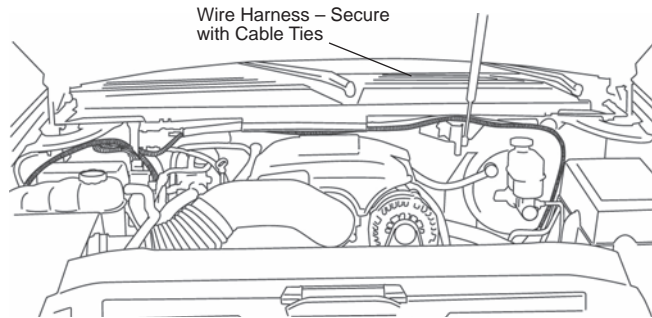


PowerBoard – Installation Instructions

9 Route Wire Harness – Gas Engine

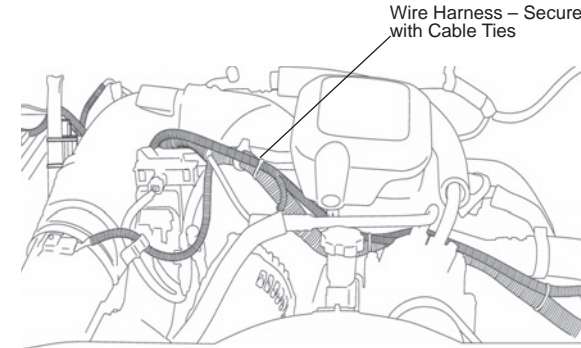
Route long end of wire harness above engine and down through drivers side wheel well. Cable tie harness to cowling clips on fire wall. Route short end down passengers side.

NOTE On hybrid models route the long end of the wire harness down the passenger wheel well and the short end down the driver's side.



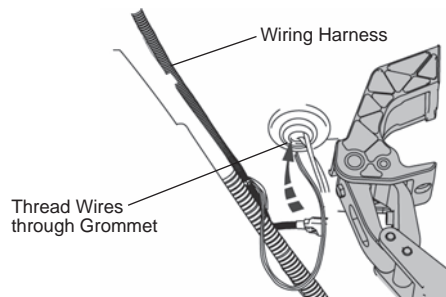
10 Route Wire Harness – Diesel Engine

Route long end of wire harness under intake and along factory engine harness to driver side wheel well. Route short end down passengers side.



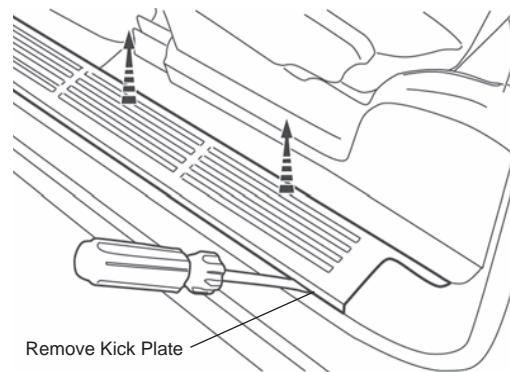
11 Install Wires – Driver's Side

Puncture the grommet in the underside of the floor panel near the front door and thread the two wires from the Wiring Harness through the grommet.



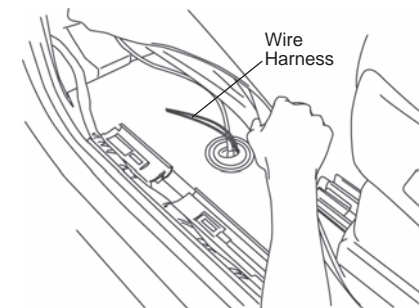
12 Remove Kick Plate – Driver's Side

Use a flat screwdriver to pop off the threshold cover and remove the kick plate.



13 Route Wires – Driver's Side

Pull up the carpet and thread both wires through the floor panel. Seal hole with silicone sealant and cover with tape so carpet does not stick to sealant.

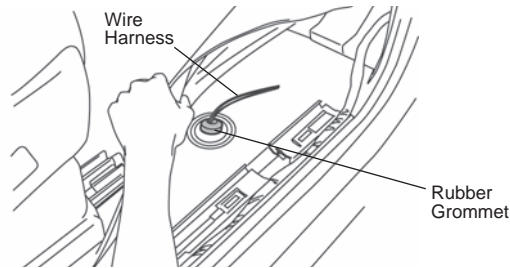


PowerBoard – Installation Instructions

14 Install Wires – Passenger’s Side

Remove the kick plate, drill a 9/32" hole in the floor panel, from inside the vehicle, and install the Rubber Grommet from the parts kit. Then thread the wires from the harness through the Grommet.

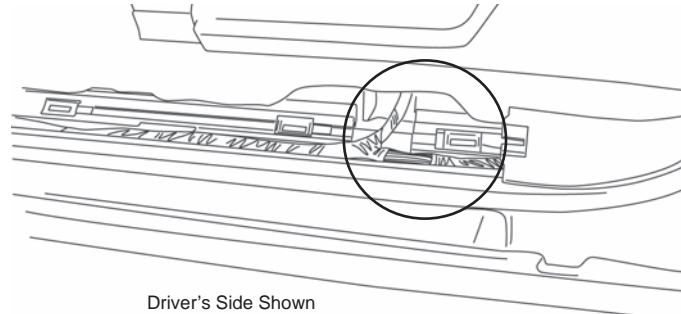
Thread the wires through the floor panel and seal the hole with silicone sealant and cover with tape so carpet does not stick to sealant.



15 Connect Wires – Crew Cab Only

Remove the wire wrap and find LIGHT BLUE with BLACK STRIPE wire on the driver’s side. On the passenger side find GREEN with BLACK STRIPE wire. The wire should be located rear of the “T” junction where the wires cross under the front seat.

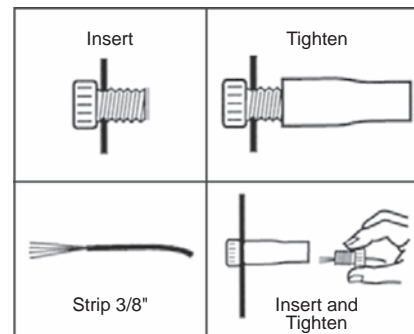
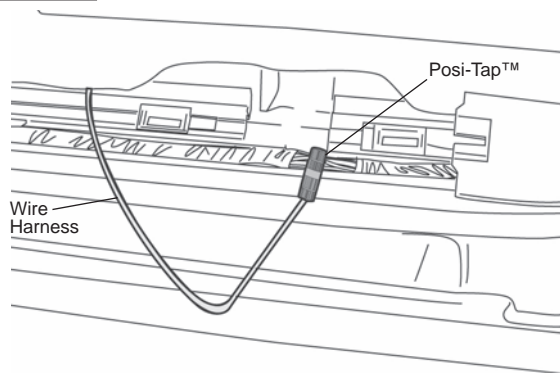
NOTE If you have an Extended Cab, these wires will not be used. Tape off the short white wire.



16 Connect Wires – Crew Cab Only

Use the Posi-Tap™ Connector to splice the shorter white trigger wire into the Light Blue or Green wire found in Step 15.

NOTE If you have an Extended Cab, these wires will not be used. Tape off the extra wires.

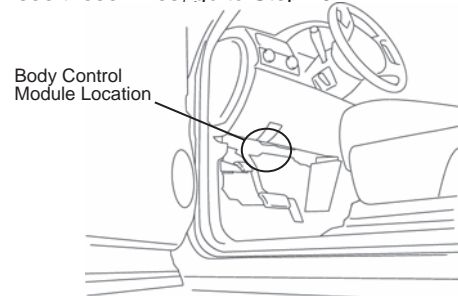


Posi-Tap™ Instructions

17 Locate Front Door Ajar Wires

Hybrid models go to Step 19.

Locate and inspect the Body Control Module above the brake pedal under the dashboard. The BCM is the only module with a pink connector. Check to see if the front door ajar signal wires are present in the pink connector: Grey/Black, Tan/White. If you do not see these wires, go to Step 20.

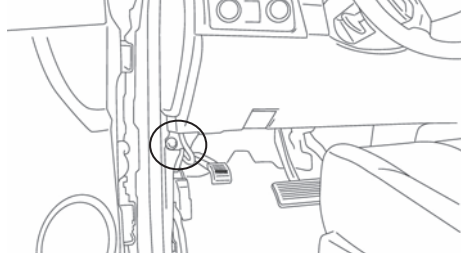


PowerBoard – Installation Instructions

18 Locate Front Door Ajar Wires

Remove driver side kick panel and open the loom wrapped in grey tape to access the Grey / Black stripe wire. Behind the passenger side kick panel the loom wrapped in tape and heading to the door will have a Tan / White stripe wire. Connect PowerBoard Green wire to the factory wires. Proceed to Step 26.

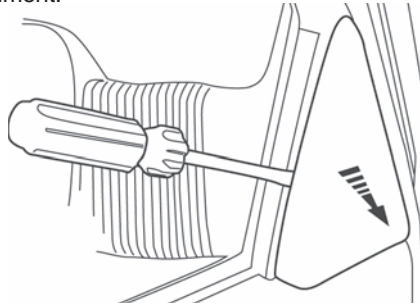
NOTE If you can not find the Grey / Black and Tan / White wires go to Step 21.



19 Remove Door Trim

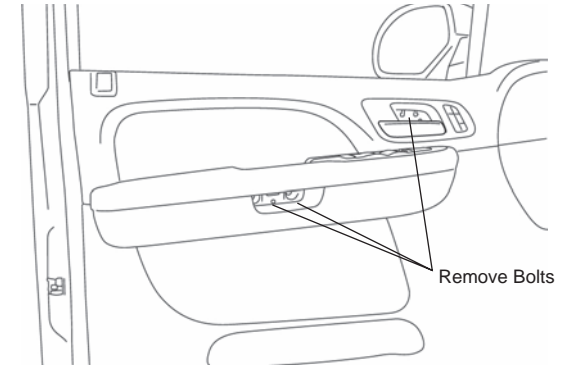
Vehicles that do not have the front door ajar signal wires in the pink connector of the BCM or behind the kick panel must have the front door panels removed in order to access the front door ajar signal wires.

Remove the plastic trim on the door near the mirror attachment.



20 Remove Door Panel

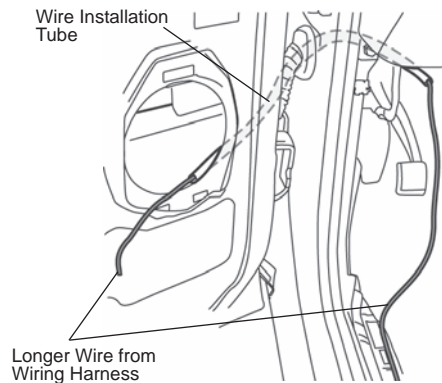
Pry back tab on door lock to remove, then pry off plastic covers by handle and door latch. Remove the three (3) door bolts and then remove door panel by prying loose all panel fasteners.



21 Thread Long Wire from Harness

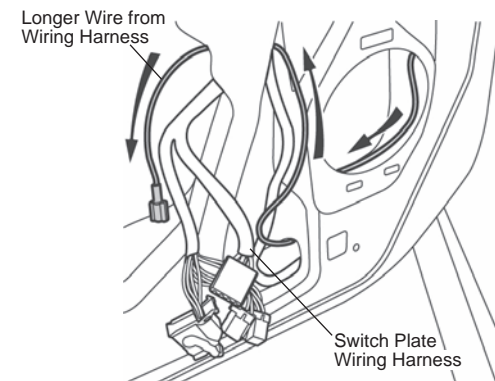
Pull back the door weather guard, unbolt the speaker and unplug it.

Locate the plastic Wire Installation Tube in the parts kit. Thread the tube into the hole in the door, through the accordion between the door and the vehicle. Then thread the longer Green wire from the Wiring Harness through the tube into the door. Once the wire is in place, remove the tube from the door side.



22 Route Connecting Wire in Door

Thread the longer Green wire from the Wiring Harness along the path of the Wiring Harness that goes to the switch plate in the door.



PowerBoard – Installation Instructions

23 Connect Wires

Locate the brown plug and use the supplied Posi-Tap™ connector to splice into trigger wire.

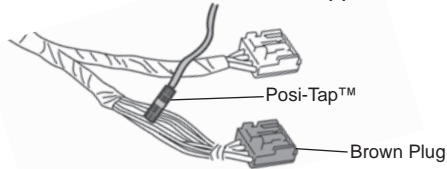
Drivers side: Grey / Black wire

Passengers side: Tan / White wire

Reassemble door and replace plugs. Plugs must be replaced for PowerBoard to operate.

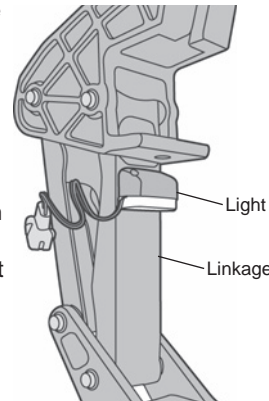
NOTE Models may vary so check all wire bundles until you find the correct colored wire.

NOTE On Hybrid models the PowerBoard trigger wire colors will not match factory wires because the wire harness is flipped.



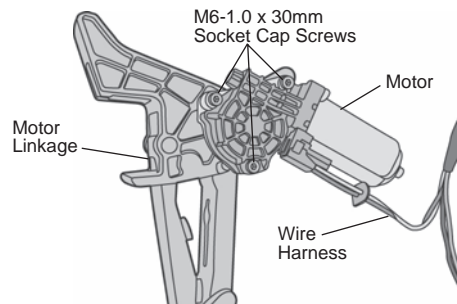
24 Install Lights

Clean the outboard surface of the of the Linkage below the bottom mounting bolt. Peel 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 loose wires with Cable Ties.



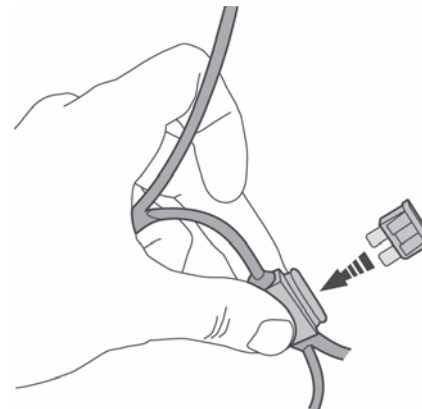
26 Install Motor

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.



27 Reinstall Fuse

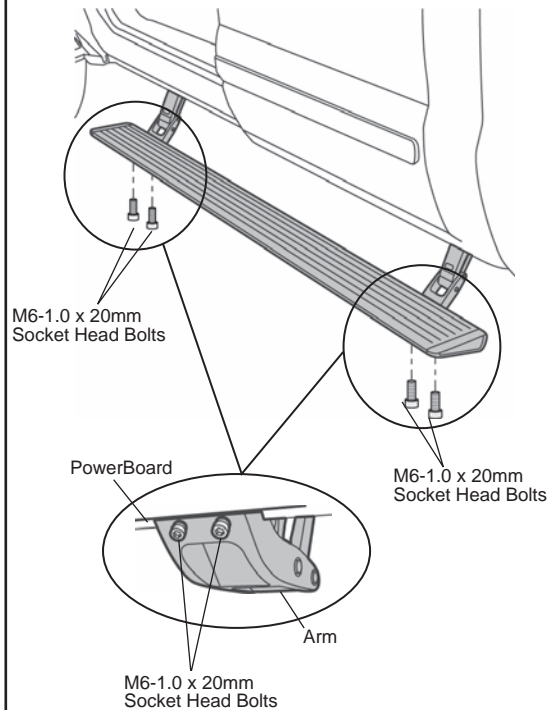
Reinstall the fuse in the harness.



25 Install Running Boards

Orient the Running Boards on the vehicle aligning the rear of the board with the rear edge of the back doors. 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 to 10 ft./lbs.

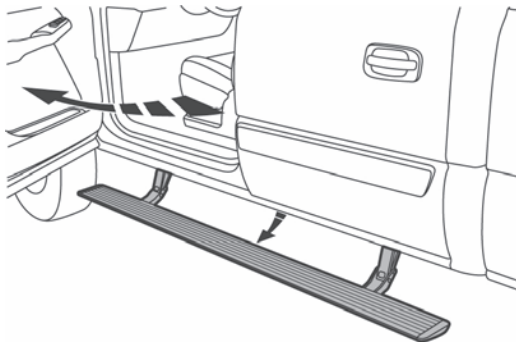
Make sure the board moves up and down freely by hand. If it binds, loosen the linkage to body attachment bolts and adjust the linkage position until the boards move freely. Retighten the linkage to body attachment bolts.



PowerBoard – Installation Instructions

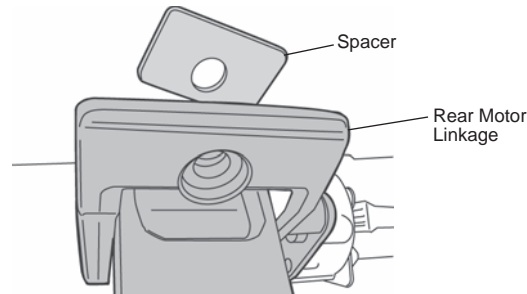
28 Test Doors

Open the doors to make sure that the PowerBoard drops into position on each side of the vehicle. Reinstall any remaining trim panels.



29 Adjust Running Board Position

Shut all doors and check to see if there is a gap between the running board and the body. If the running board is touching the body add spacers between the body pinch weld and linkage mounting flange as shown until the board no longer touches the body.



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 door-ajar 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.

PowerBoard – Installation Instructions

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.

For further information or request for warranty work, please contact:

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E-mail: csbestop@Bestop.com
Website: www.Bestop.com

