



Installation Instructions

PowerBoard

Automatic Retracting Running Board

Vehicle Application

• Dodge Ram Crew Cab Pickup
2009 - Current
Part Number: 75138-15

• Dodge Ram Quad Cab Pickup
2009 - Current
Part Number: 75143-15

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INSTALLATION TIME	SKILL LEVEL
4 Hours	4 - Difficult

TOOLS				
 Tape Measure	 Wrench 13mm and 19mm	 Socket 10mm and 13mm	 Ratchet	 Extension
 Wire Cutters	 Wire Stripper	 Allen Wrench 1/8" and 3/16"	 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

Left End Cap, Part Number 460.83, Qty - 1

Running Board Assembly, Qty - 2
72" - Part Number 473.14
79" - Part Number 460.87

T-Nut Insert, Part Number 460.84, Qty - 2

M6 Nut Plate, Part Number 460.86, Qty - 2

Right End Cap, Part Number 460.82, Qty - 1

M6-1.0 x 10mm Socket Cap Screw, Part Number 460.85, Qty - 2

Motor Linkage, Right (Shown) - Part Number 475.54, Qty - 1
Left - Part Number 475.55, Qty - 1

Idle Linkage, Right (Shown) - Part Number 475.52, Qty - 1
Left - Part Number 475.53, Qty - 1

Support Bracket, Part Number 474.35, Qty - 2

Motor, Part Number 460.94, Qty - 2

Posi-Tap, Part Number 470.03, Qty - 4

Roll Pin, Part Number 475.12, Qty - 8

Controller, Part Number 460.91, Qty - 1

7" Cable Ties, Part Number 460.99, Qty - 25

11" Cable Ties, Part Number 470.02, Qty - 2

Light, Part Number 470.15, Qty - 4

Bracket Insert, Part Number 473.35, Qty - 2

Mounting Insert, Part Number 474.34, Qty - 4

M6-1.0 x 30 Socket Cap Screw, Part Number 460.95, Qty - 6

M8-1.25 Rivet Nut, Part Number 473.75, Qty - 8

Rivet Nut Tool, Part Number 473.76, Qty - 1

M6-1.0 x 30 Hex Bolt, Part Number 474.36, Qty - 4

M8-1.25 x 30 Hex Bolt, Part Number 473.18, Qty - 10

M6-1.0 x 20 Socket Cap Screw, Part Number 470.00, Qty - 8

M8-1.25 x 15 Flange Bolt, Part Number 473.81, Qty - 2

8 mm Washer, Part Number 470.05, Qty - 8

8 mm Fender Washer, Part Number 470.07, Qty - 2

75143 Quad Cab Only

M8-1.25 Nylock Nut, Part Number 470.06, Qty - 1

Brake Cable Bracket, Part Number 473.78, Qty - 1

8mm Washer, Part Number 470.07, Qty - 1

M8-1.25 x 25 Hex Bolt, Part Number 460.46, Qty - 1

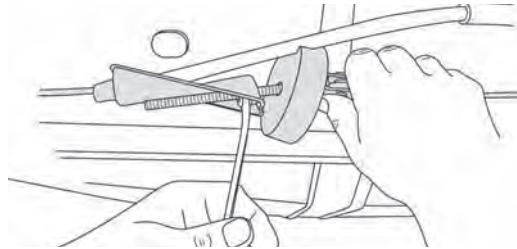
Wiring Harness, Part Number 473.74, Qty - 1

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NOTE Steps 1 through 4 are for Quad Cab Vehicles only. If you have Crew Cab, skip to Step 5.

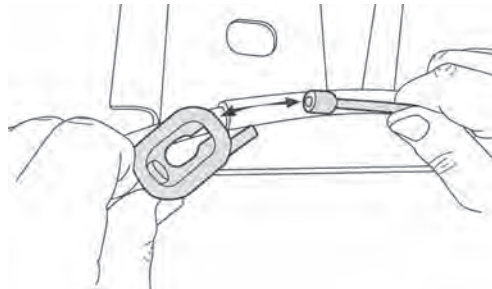
1 Install Brake Cable Bracket - Quad Cab Only

Locate the brake cable adjustment nut on the driver's side of the frame toward the rear. Mark the position of the nut. Hold the adjustment nut with a 13mm wrench and loosen the cable to create some slack.



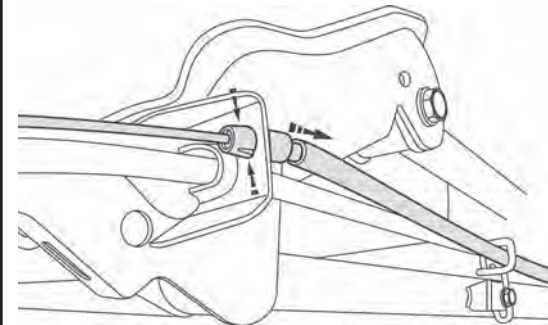
2 Install Brake Cable Bracket - Quad Cab Only

Once you have enough slack, detach the brake cable just behind the brake cable adjustment nut.



3 Install Brake Cable Bracket - Quad Cab Only

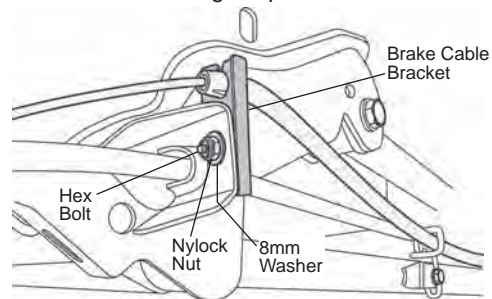
Depress the locking tabs on the brake cable guide and slide it out through the hole in the frame. Unthread the brake cable from the frame mount.



4 Install Brake Cable Bracket - Quad Cab Only

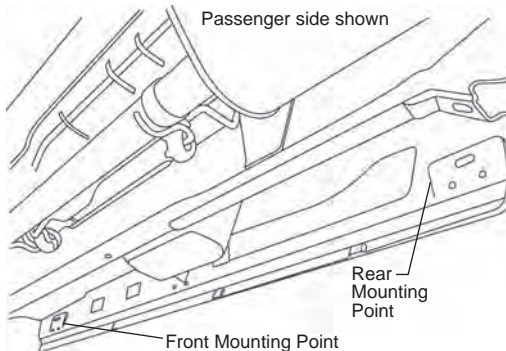
Slide the brake cable guide into the Brake Cable Bracket provided in the parts kit. Use the Hex Bolt, 8mm Washer and Nylock Nut from the kit to mount the Brake Cable Bracket to the frame.

Reattach the brake cable and adjust the brake cable adjustment nut to its original position.



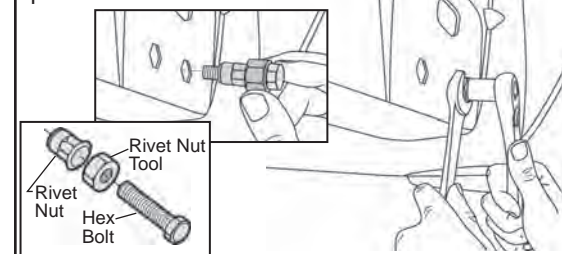
5 Locate Linkage Mounting Points

Locate the mounting points for the Idler and Motor Linkages. The Idler Linkage mounts in the front and the Motor Linkage mounts in the rear. Remove the tape from the sill drain hole at both mounting points.



6 Install Rivet Nuts

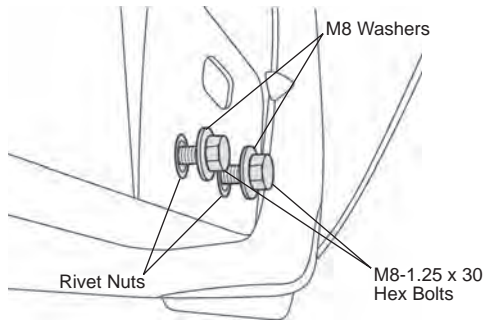
Assemble a Hex Bolt, Rivet Nut Tool and Rivet Nut. Place the assembly into the cutout in the sill. Hold the Rivet Nut Tool with a 19 mm wrench and tighten the bolt until the Rivet Nut deforms and secures to the sheet metal (15 ft. lbs.). Hold the Rivet Nut Tool with a wrench and remove the bolt and tool. Repeat for all Rivet Nuts in the four linkage mounting positions.



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7 Install Bolts in Rivet Nuts

Install M8-1.25 x 30 Hex Bolts and Washers in the Rivet Nuts. Leave about 1/2" of thread showing. Make sure that the M8 Washers are flush to the bolt head.



8 Orient Mounting Insert on Linkage

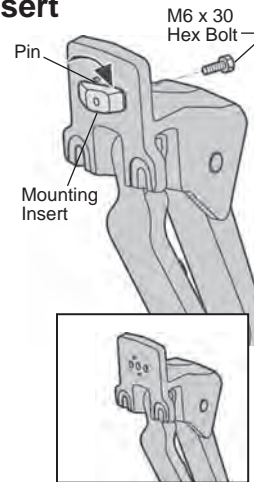
Vehicles except Quad Cab:

Tap a Roll Pin in the small upper hole in the Linkage. Hold the Linkage firmly and use an M6 x 30 Hex Bolt to install the Mounting Insert in the center hole in the Linkage. Make sure the insert is oriented properly

Quad Cab Idler Linkages

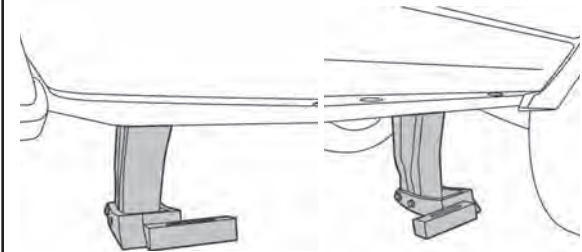
Only: Install the Mounting Insert in the rear hole and tap a Roll Pin in the small lower hole.

All other applications: Tap a Roll Pin in both small holes.



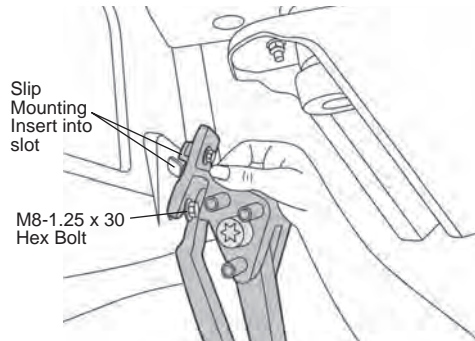
9 Orient Linkages

Orient the Linkages on the vehicle with the Idler Linkages to the rear and the Motor Linkages to the front. The feet on the Linkages should face each other on each side of the vehicle.



10 Install Linkages

Retract the Linkage part way and make sure the Mounting Insert is in the proper position. Tilt the Linkage and slide the mounting slots over the bolts installed in Step 7. Rotate the Linkage until the Mounting Insert slips into the slot in the sheet metal.

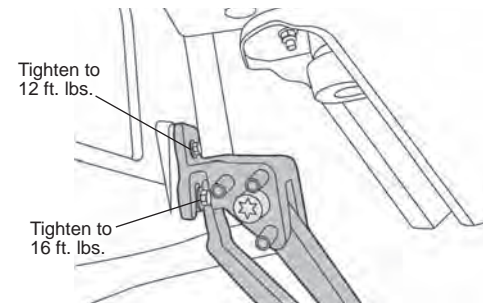


11 Install Linkages

Use a 13mm wrench to tighten the M8 Flange Hex Bolt to 12 ft. lbs. Do not allow the bolt to rotate counter-clockwise which may disengage the Mounting Insert.

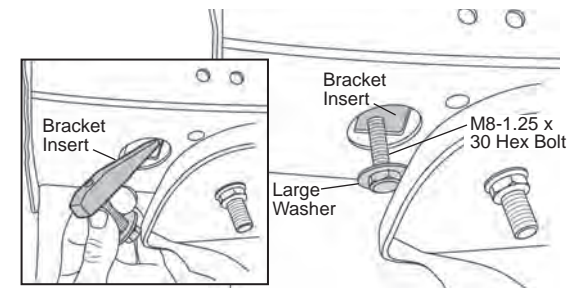
Then tighten the lower Hex Bolts to 16 ft. lbs.

Repeat for all Linkages



12 Install Bracket Insert

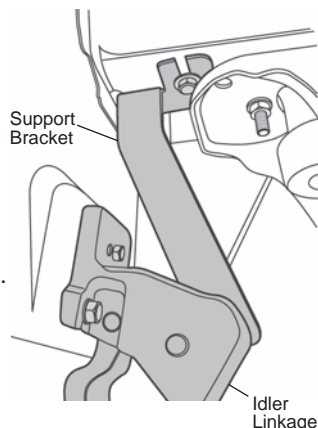
Thread an M8-1.25 x 30 Hex Bolt and Large Washer into a Bracket Insert. Slide the Bracket Insert assembly into the body support member above the Idler Linkage. Orient the Bracket Insert with the long end pointing toward the center of the vehicle. Leave enough threads showing to install the Support Bracket.



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13 Install Support Bracket

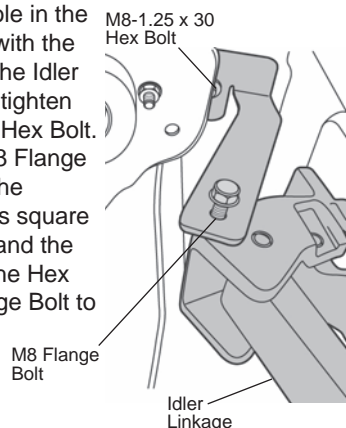
Slide the slotted end of the Support Bracket over the M8-1.25 x 30 Hex Bolt and Large Washer from the Bracket Insert Assembly. The lower part of the bracket should rest against the rear of the Idler Linkage.



NOTE: Support Bracket is not required on Mega Cab.

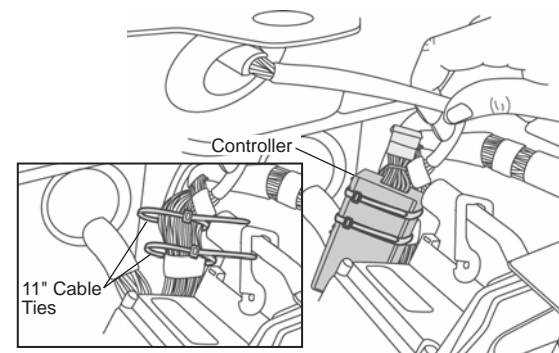
14 Secure Support Bracket

Align the lower hole in the Support Bracket with the threaded hole in the Idler Linkage. Loosely tighten the M8-1.25 x 30 Hex Bolt. Then insert an M8 Flange Bolt. Check that the Support Bracket is square with the Linkage and the vehicle. Tighten the Hex Bolt and the Flange Bolt to 16 ft. lbs.



15 Install Controller

Loosely wrap 11" Cable Ties around the large bundle of wires behind the battery in engine compartment. Slide the Controller through the Cable Ties and tighten.

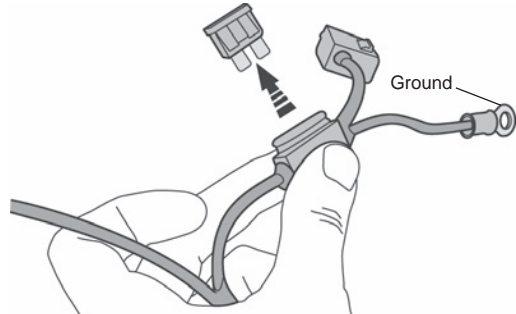


WARNING

Remove the fuse from the Wiring Harness.

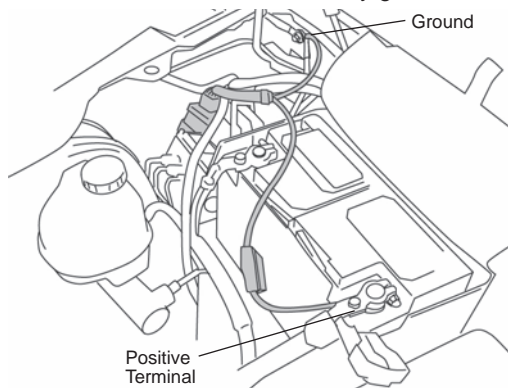
16 Remove Fuse from Wiring Harness

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.



17 Attach Power Leads

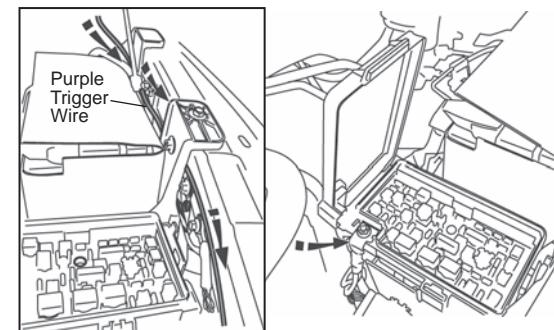
Attach the Wiring Harness to the Controller. Connect the red power lead to the positive battery terminal and black lead to the body ground.



18 Route Trigger Wires

Route the purple Wire Harness trigger wires down to the fuse box in front of the battery.

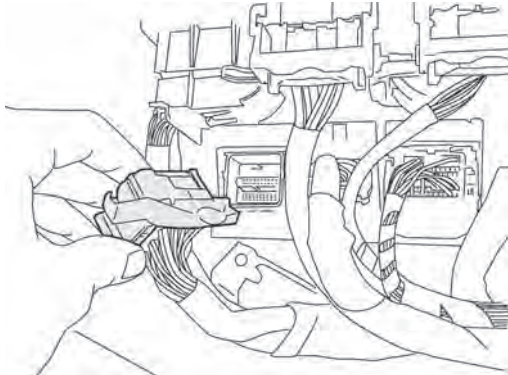
Use a 13mm wrench to remove the fuse box lid and power lead. Depress the release tabs and lift the fuse box to access the bottom.



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19 Disconnect Fuse Box

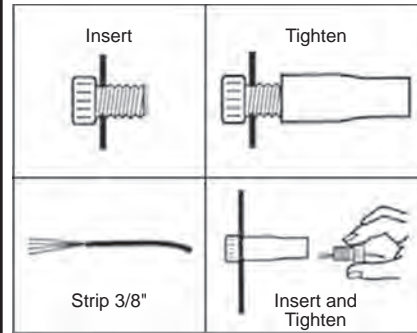
Locate the black connector with the gray latch, labeled "G" on the bottom of the fuse box. Disconnect it.



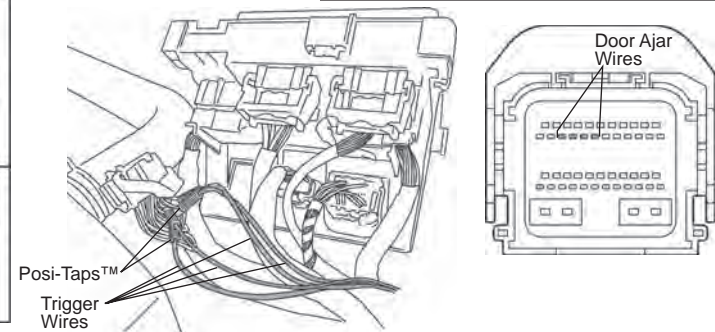
20 Wiring

Locate the vehicle's Door Ajar wires on the connector from Step 16. The trigger wires are color coded to match the Door Ajar wires. Use the Posi-Taps™ to splice the trigger wires into the matching Door Ajar wires.

Cavity	Color	Function
14	Violet	Driver Door Ajar Switch Sensor
15	Violet / White	Passenger Door Ajar Switch Sensor
16	Violet / Gray	Driver Rear Door Ajar Switch Sensor
17	Violet / Yellow	Passenger Rear Door Ajar Switch Sensor



Posi-Tap™ Instructions

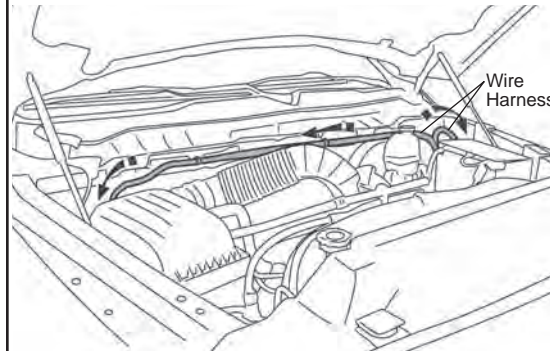


21 Reconnect Fuse Box

Replace the connector removed in Step 16. Replace the wire bundles and fuse box.

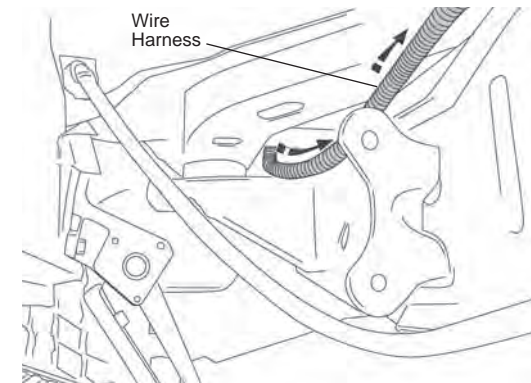
22 Route Wiring Harness

Route the long leg of the Wire Harness across the engine compartment to the passenger side wheel well. Route the short leg to the driver's side. Secure them with 7" Cable Ties.



23 Route Wiring Harness – Driver's Side

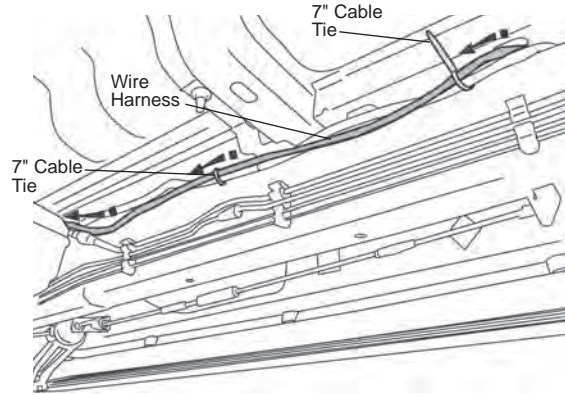
On the driver's side route the Wire Harness down along the underside of the floor and the frame. Secure it with 7" Cable Ties.



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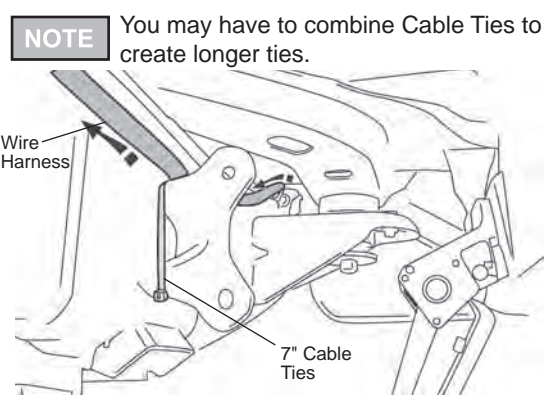
24 Route Wiring Harness – Driver’s Side

Continue to route the Wire Harness along the inside and top of the driver’s side frame. Secure it with 7” Cable Ties.



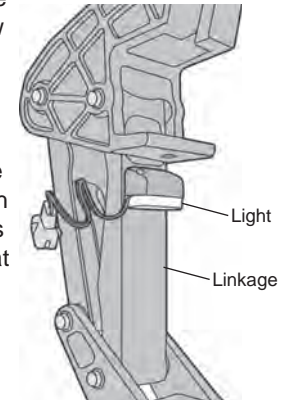
25 Route Wiring Harness – Passenger’s Side

Route the Wire Harness down to the wheel well on the Passenger side and along the top of the frame rail. Secure it with 7” Cable Ties.



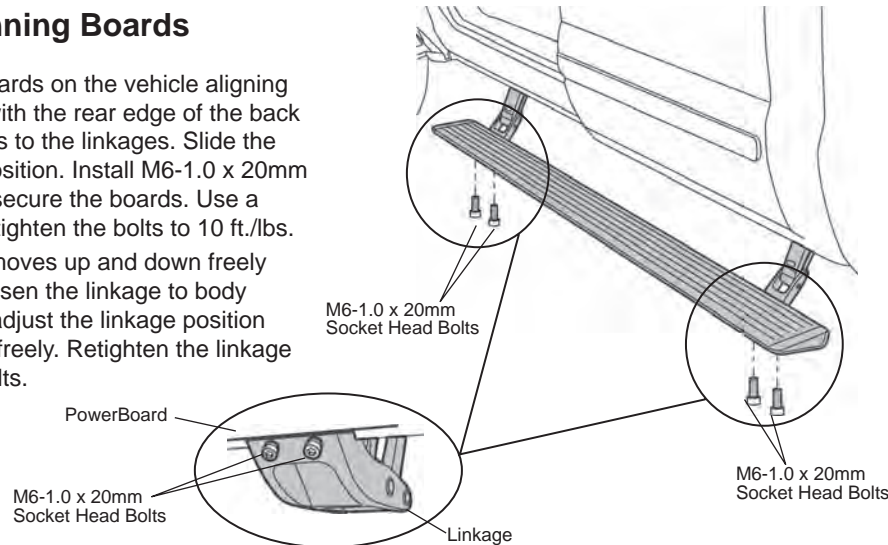
26 Install Lights

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.



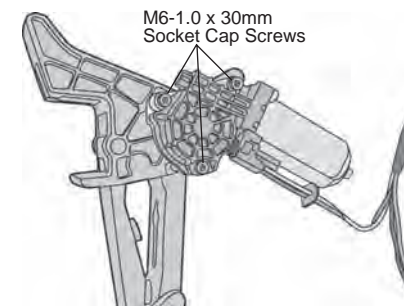
27 Install Running Boards

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.



28 Install Motor

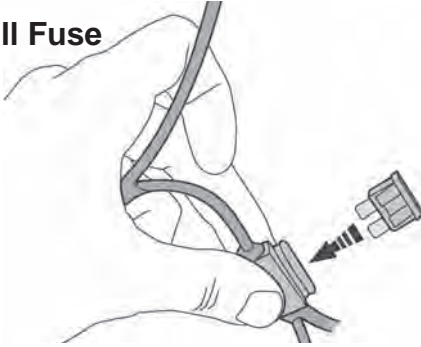
Slide Motor assembly onto drive shaft and mounting bosses of Motor Linkage assembly. Use three (3) M6-1.0 x 30mm Socket Cap Screws to secure Motor. Plug female connector into Motor. Wrap any exposed wires from the motor with electrical tape.



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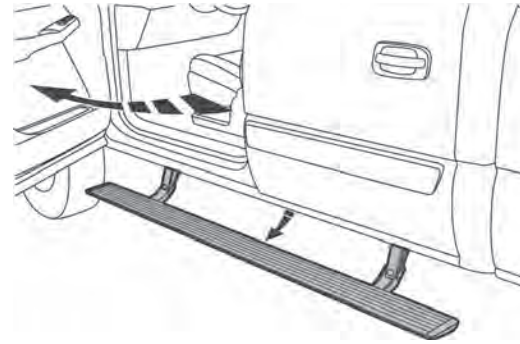
29 Reinstall Fuse

Reinstall the fuse in the harness.



30 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.



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.

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