Vehicle Application: Jeep Wrangler 2-Door 2007-2016 Part Number 75151-15

Installation Tips

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

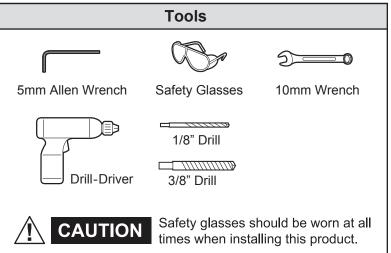
The manufacturer strongly recommends that this product be professionally installed.

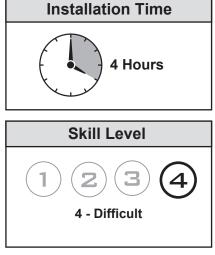
Failure to carefully follow the electrical installation steps could result in severe electrical shock which could harm the installer and/or damage the vehicle.

This product is designed primarily to enhance the appearance and comfort of the vehicle. Do not rely in any way on the components of this product to protect the occupants within the vehicle, or 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





We're here to help! Go to www.Bestop.com and click "Ask a Question"

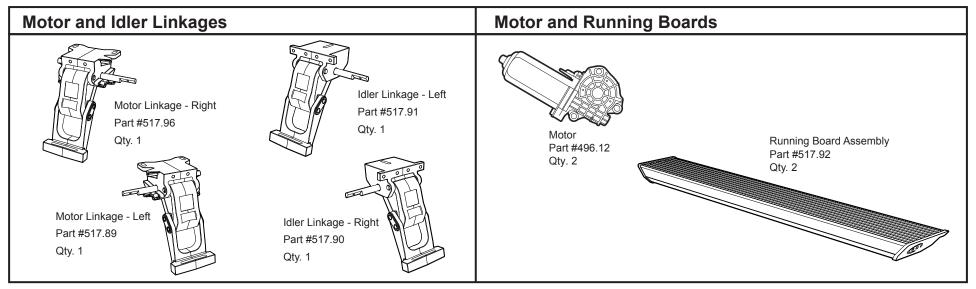
Support

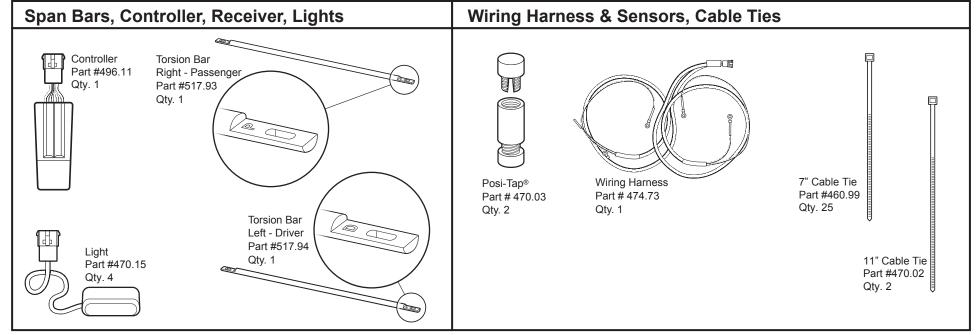


Vehicle Application: Jeep Wrangler 2-Door 2007- 2016 Part Number 75151-15

Parts List

- Required parts for installation





Vehicle Application: Jeep Wrangler 2-Door 2007- 2016 Part Number 75151-15

Parts List

- Required parts for installation

Fasteners #M6-1.0 x 35 #M8-1.25 x 25 #M6 Flat Washer #M6-1.0 Socket Cap Screw **Button Head Screw** Part # 481.96 Nylon Lock Nut Part # 460.95 Part # 522.95 Part # 490.93 Qty. 14 Qty. 6 Qty. 4 Qty. 4 #M6-1.0 x 30 Socket Cap Screw Part # 523.15 #M8 -1.25 #M8 Flat Washer #M8-1.25 x 20 Qty. 4 Hex Nut Part # 470.05 **Button Head Screw** Part # 473.84 Qty. 12 Part # 473.83 Qty. 1 Qty. 8 #M6-1.0 x 20 Socket Cap Screw Part # 470.00 Qty. 8

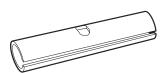




Drill Template Part # 523.18 Qty. 1



Linkage Mounting Insert Part # 522.67 Qty. 2



Torsion Bar Collar Part # 517.95 Qty. 4



PowerBoard® Fastener Tightening Sequence

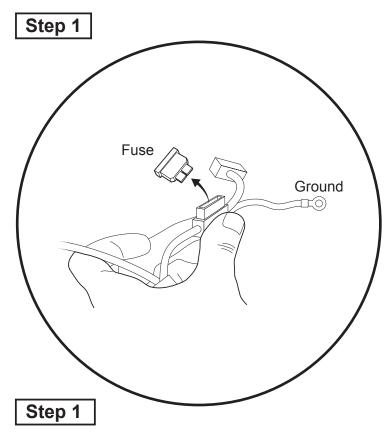
Fasteners Must Be Tightened in This Sequence to Promote Smooth Operation

- **1.** Mount linkages to the body of the Jeep finger tight only. (see sections 6 through 8).
- 2. Install and tighten the torsion bars to specification. (see section 8)
- **3.** Loosely install boards to mounting foot of linkages. (see section 9)
- 4. Retract the board, then tighten the board to the MOTOR LINKAGE ONLY. (Rear)
- **5.** Open the vehicle door to extend the board, then close the vehicle door to retract the board. Tighten the board to the FRONT idler linkage when the board is retracted or in the up position. (See section 10)
- **6.** Now tighten linkages to the Jeep body and Welded Body Flange.

Torque all fasteners to the following specifications:

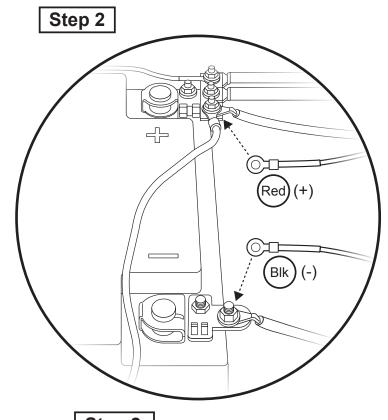
5-7 ft-lbs (6.79-9.40 NM / 60-84 in-lbs)

Do not exceed 7 ft-lbs.



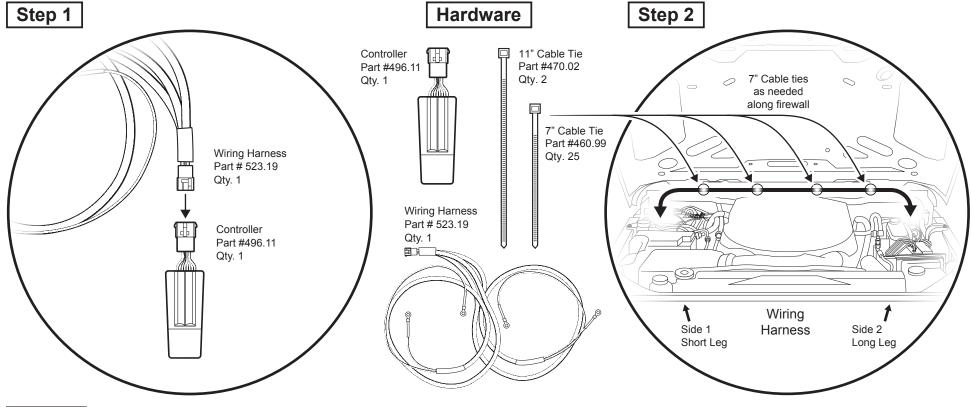


Remove the fuse from the wiring harness. Failure to do so could result in severe electrical shock which could harm the installer and/or damage the vehicle.



Step 2

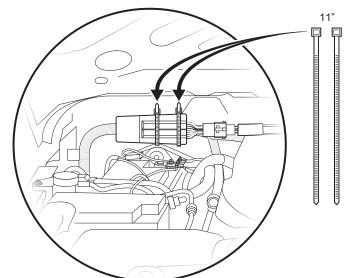
Connect the red lead from the wiring harness to the battery positive and the black lead to the battery negative.



Step 1

Connect the Wiring Harness to the Controller. Make sure that the locating tabs are fully engaged.

Secure the Controller to the vehicle wiring harness with two 11" Cable Ties.



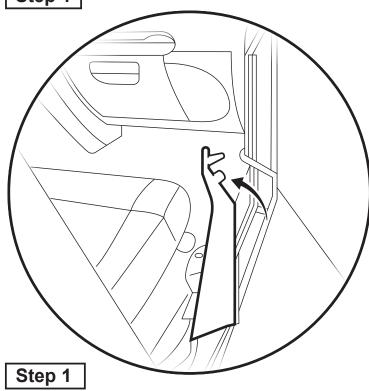
Step 2

Route the short leg of the Wiring Harness down the firewall and along the frame rail of the vehicle, on the same side as the battery. Keep the harness away from heat and exhaust system. Secure the harness to the frame using the #460.99 7" cable ties.

Route the long leg of the Wiring Harness across the firewall and down the opposite side of the vehicle from the battery location. Secure the harness to the firewall and frame using the #460.99

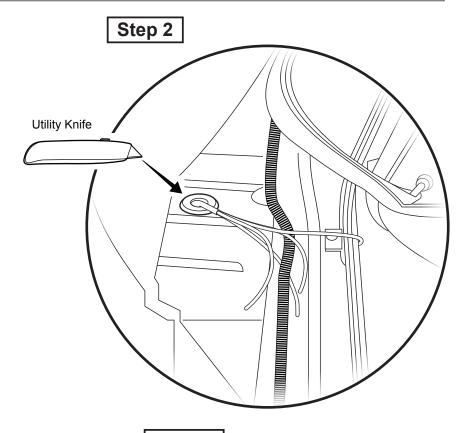
7" cable ties.





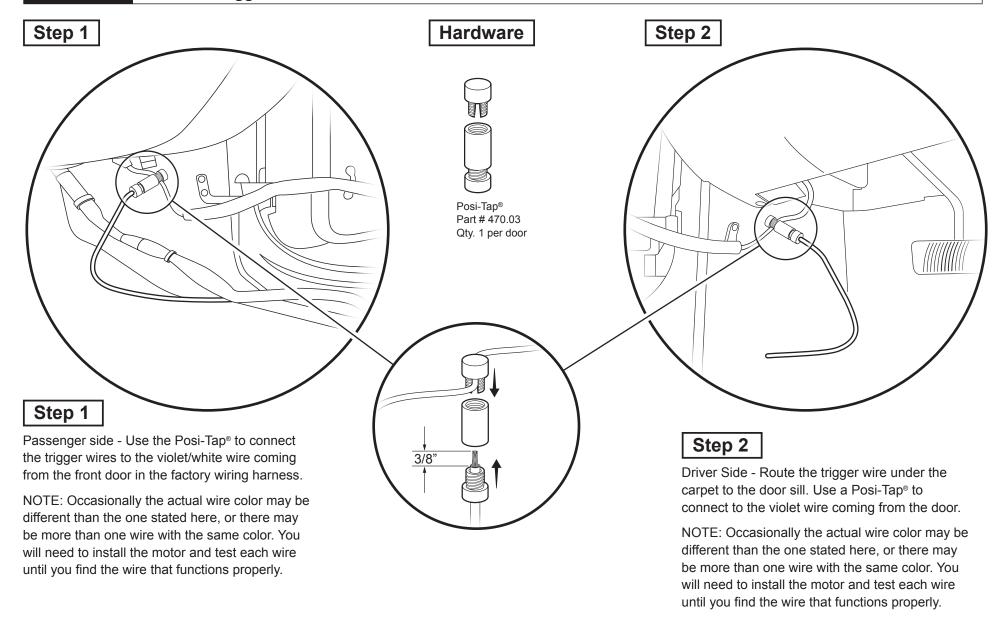
Remove the front door sills on both driver and passenger sides of the vehicle.

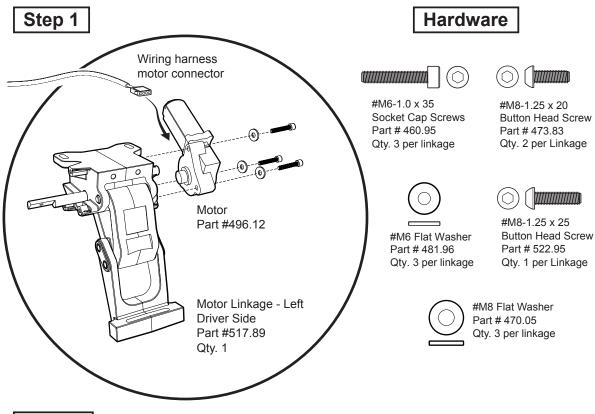
Passenger side shown.

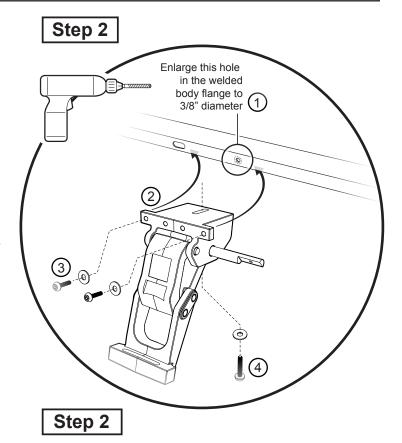


Step 2

Lift up the carpet. Slit the rubber grommet in the floor. Thread the trigger wires through the grommet and into the passenger compartment.







The Idler Linkage mounts toward the front of the vehicle. Left (driver) side shown.

- 1) Enlarge the small hole as shown to 3/8" dia.
- 2 Mount the Idler Linkage behind the welded body flange using 3 two #M8-1.25 x 20 Button Head Screws with #M8 Flat Washers.
- 4 Install one #M8-1.25x25 Button Head Screw with #M8 Flat Washer through the bottom of the Idler Linkage into the bottom of the vehicle body.

WARNING Only tighten the screws holding the Idler Linkages to the vehicle finger tight at this time.

Step 1

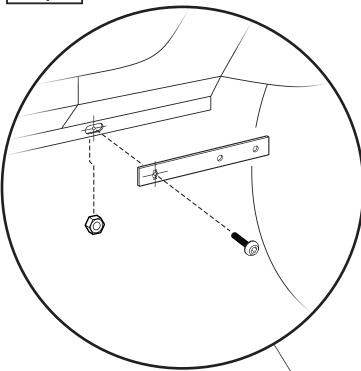
Attach a Motor to each Motor Linkage using three #M6-1.0 x 35mm Socket Cap Screws, with three #M6 Flat Washers.

Left (Driver) side motor linkage shown above. Repeat for Right (Passenger) side of the vehicle.

With the Motor-Linkage assembly near the vehicle mounting position - underneath the rear of the vehicle door opening - attach the wiring harness motor connector to the motor.

Repeat on the Right (Passenger) side of the vehicle.

Step 1



Hardware





#M8 - 1.25 x 20 Button Head Screw Part # 473.83 Qty. 1



#M8 - 1.25 Hex Nut Part # 473.84 Qty. 1



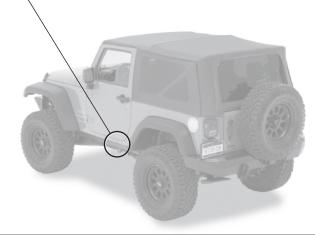
Drill Template Part # 523.18 Qty. 1

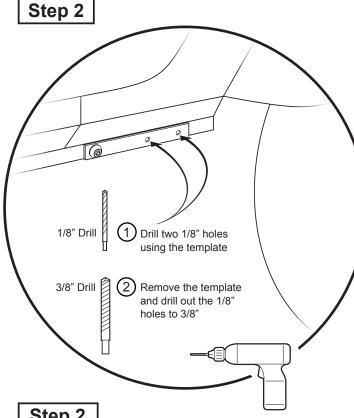
Step 1

Attach the supplied drilling template #523.18 to the body flange using one #M8-1.25x 20 Button Head Screw and one #M8-1.25 Hex Nut.

Locate the drilling template so the slotted template hole is centered over the slotted hole in the body flange, toward the rear.

Driver side shown.





Step 2

- 1) Drill two 1/8" holes in the vehicle welded body flange, using the drilling template.
- (2) Remove the template, and drill out the two 1/8" holes to 3/8".

Driver side shown. Repeat this process on the passenger side of the vehicle.

Step 1 **Hardware**





Linkage Mounting Insert Part # 522.67 Qty. 1 per Linkage

Button Head Screw Part # 522.95 Qty. 1 per Linkage



#M8-1.25 x 20 **Button Head Screw** Part # 473.83 Qtv. 8



#M8 Flat Washer Part # 470.05 Qty. 3 per linkage

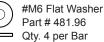




#M6-1.0 x 35 Socket Cap Screw Part # 460.95 Qty. 2 per Bar









#M6-1.0 Nylon Lock Nut Part # 490.93 Qty. 2 per Bar



(1)

(1) Insert one #M8-1.25x25 button head screw with #M8 Flat Washer through the Motor Linkage flange as shown above, and screw into the Linkage Mounting Insert #522.67 until the screw tip is flush with the top of the insert.

(2) Orient the Linkage Mounting Insert as shown above, and tilt the Motor Linkage so that the Linkage Insert will fit through the hole in the bottom of the Jeep body. The Motor Linkage should be behind the welded body flange.

(3) Install two #M8-1.25x20 Button Head Screws with #M8 Flat Washers through the welded body flange and into the threaded holes on the face of the Motor Linkage.

WARNING Only tighten the screws holding the Motor Linkages to the vehicle finger tight at this time.

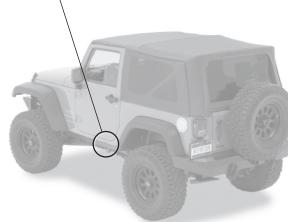


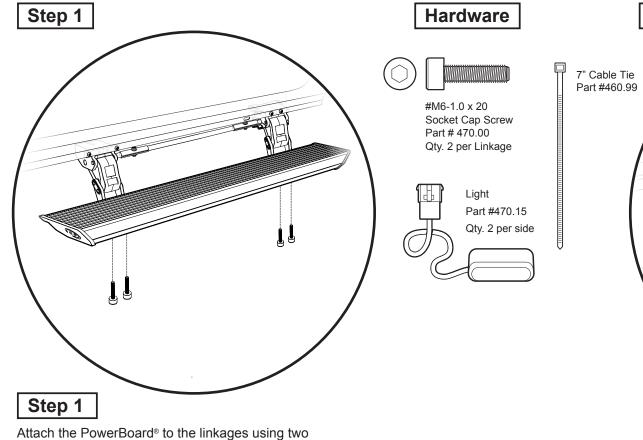
Step 2

(1) Slide a Torsion Bar Collar #517.95 onto each end of a Torsion Bar.

(4)

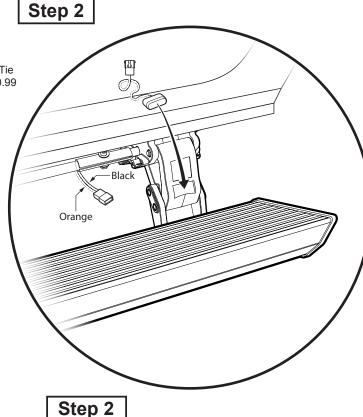
- (2) Place the Torsion Bar and collars into position on the ends of the shafts on each linkage. Make sure that the Torsion Bar is marked with a "D" for Driver side, and "P" for Passenger side.
- (3) Slide the collars over both the Torsion Bar and the linkage shafts, aligning the holes in the collars with the holes in the Torsion Bar and linkage shafts.
- (4) Assemble one #M6-1.0x35 Socket Cap Screw, two #M6 Flat Washers, and one #M6 Nylon Lock Nut through the hole in each collar. Tighten the screw before tightening the Nylon Lock Nut.





Attach the PowerBoard® to the linkages using two #M6-1.0x20 Socket Cap Screws per linkage.

WARNING Only tighten the screws holding the PowerBoards® to the Linkages finger tight at this time.



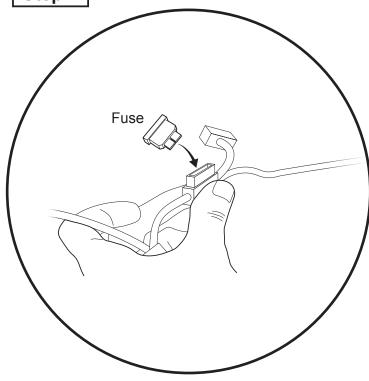
Clean the mounting surfaces with a 50/50 mix of isopropyl alcohol and water.

Remove the adhesive liner from the bottom of the light and firmly press it into the recessed area on the motor linkage.

Plug the pigtail from the light into the connector on the wiring harness with the orange and black wires. Secure loose wires with 7" Cable Ties as necessary.

Driver side shown. Repeat on passenger side.

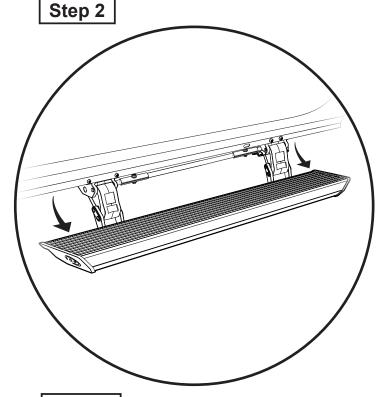
Step 1



WARNING

Never force the PowerBoard® up or down. Always use the motors to cycle the boards.

Never step on the PowerBoard® until it is fully deployed.



Step 2

Open and shut each door to make sure that the PowerBoards® deploy and retract properly.

Close the doors to retract the linkages. With the boards retracted, Tighten the fasteners holding the boards to the Motor Linkages (rear linkage).

Open the doors to extend the boards, then close the doors to retract the boards.

With the boards retracted, tighten the fasteners that hold the boards to the Idler Linkages (front linkage).



Tighten all fasteners according to the order and torque settings on page 4 of this guide.

Step 1

Make sure both doors are closed.

Re-install the fuse in the PowerBoard® Wire Harness, which was removed at the beginning of the installation process.

Keep hands clear of the linkages. Within approximately 30 seconds the boards will retract.



Vehicle Application: Jeep Wrangler 2-Door 2007-2016 Part Number 75151-15

POWERBOARD® TROUBLESHOOTING

Problem: Boards do not operate

Possible Causes:

- Connected to incorrect vehicle wire
- · Wire connections not secure
- Bad Battery Connection
- Fuse Burned
- Factory door-ajar circuit inoperable

Problem: Intermittent operation

Possible Causes:

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

Problem: Boards operate randomly

Possible Causes:

- · Wire connections not secure
- Connected to incorrect vehicle wire

Problem: Board shakes and/or shudders during operation

Possible Causes:

- · Bad ground
- · Wire connections not secure
- Links misaligned
- Bad battery connection

Problem: Board squeaks or creaks during operation:

Possible Causes:

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

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

· Gear shaft wedge screw is missing or loose

Problem: One door operates the board and the other does not:

· Wire connections not secure

POWERBOARD® SERVICE TIPS

Adjusting Linkage Alignment:

The board is designed to stop travel when the system senses a load. Misalignment can cause the board to stop early.

To adjust, loosen the boards from the linkages. Loosen the linkages from the vehicle. Cycle the boards up and down a few times.

With the linkages extended, re-tighten the boards to the linkages.

Cycle the boards again then re-tighten the linkages to the vehicle.

ATTENTION: DO NOT REMOVE THE FASTENERS

Confirming PowerBoard® is functional - black controller:

To test the controller (#496.11), 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 extend and the lights should turn on. The board should retract and the lights go off when the wire is removed from the ground.

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

Unfortunately, vehicle manufacturers do not consistently keep the same wire colors in their wire harnesses or there may be more than one wire of the same color. The PowerBoard® trigger wires need to be connected to 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 is 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 screwdriver.

Website: www.Bestop.com



Vehicle Application: Jeep Wrangler 2-Door 2007-2016 Part Number 75151-15

CARE AND MAINTENANCE:

The step pad surface and linkage arms should be washed with mild soap and water using a soft brush or sponge to dislodge any mud, dirt or accumulated road grime. Rinse with fresh water and avoid spraying the motors directly. After it is dry, lubricate the hinge with 3-In-One Oil. To prevent slipping, avoid applying waxes, lubricants, or protectants like Armor All® to the step surfaces.



PowerBoard® should always be stowed in the retracted position when driving.

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: 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.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de license. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

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