



Installation Instructions

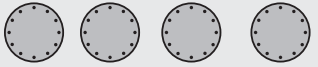

PowerBoard




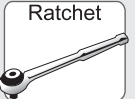
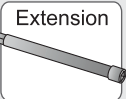
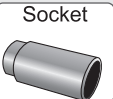

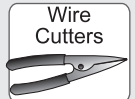
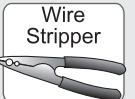
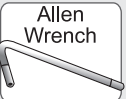



Automatic Retracting Running Board

Vehicle Application

- Ford Super Duty F-250/350/450 Crew Cab
1999 – 2007
Part Number: 75104-15

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INSTALLATION TIME	SKILL LEVEL
	
4 Hours	4 - Difficult

TOOLS				
 Tape Measure	 Flat-Head Screwdriver	 Phillips Screwdriver	 Ratchet	 Extension
 Socket 8 mm, 13 mm	 Crimp Tool	 Wire Cutters	 Wire Stripper	 Allen Wrench 4 mm, 3/16"
 Electrical Tape	 Silicone Sealant	 Safety Glasses		



NOTE Due to Ford factory wiring changes, some 2002-2003 models require the two wires going to each motor plug to be reversed for the boards to operate properly when using the supplied controller. As a result the lights will not work correctly. Do not install light kit at this time. Call (800) 845-3567 to get a different controller (part number 473.30) that will operate the lights correctly.

! 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.

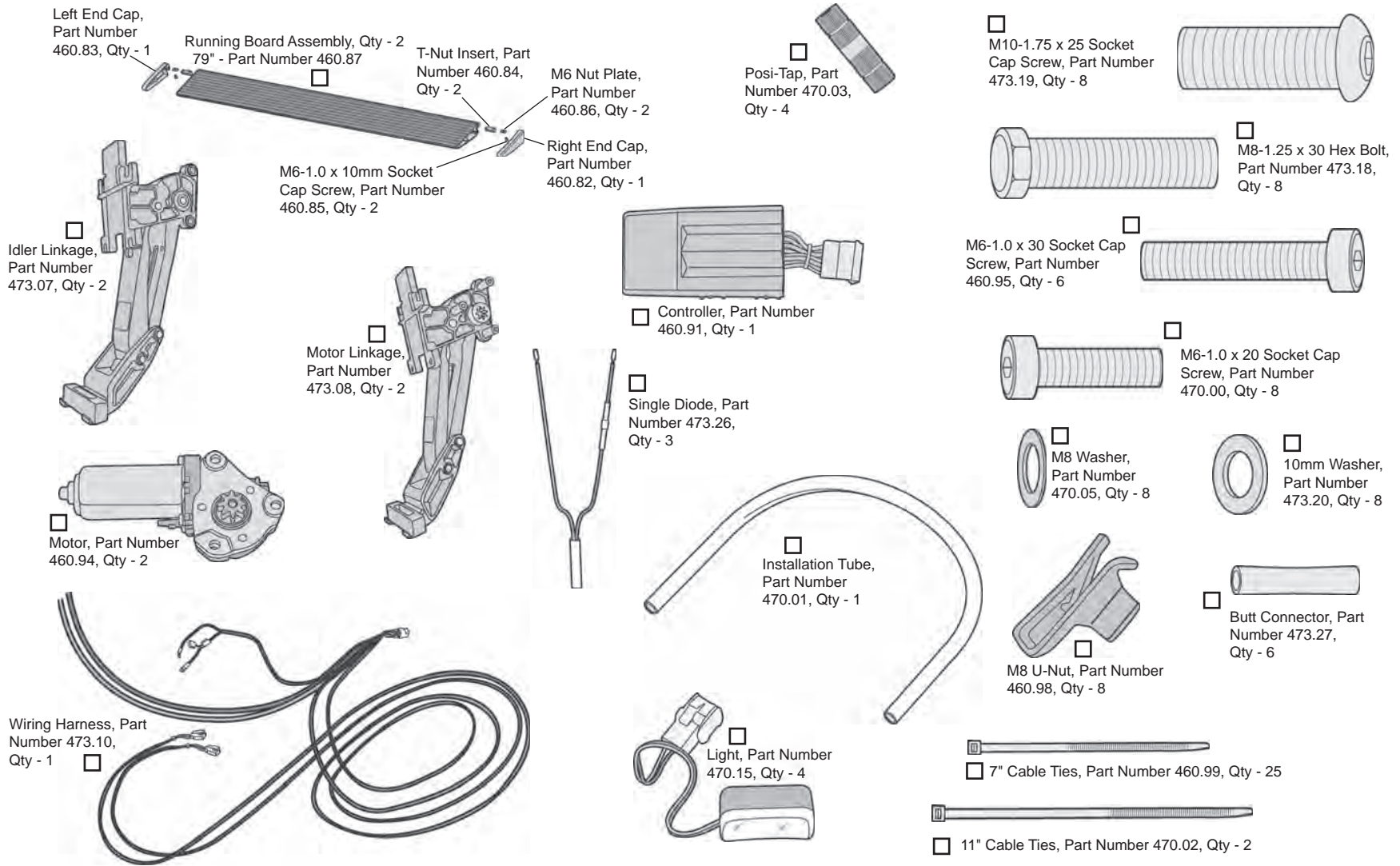
! WARNING Do not rely in any way on the components of this product to protect against injury or death in the event of an accident. Never operate the vehicle in excess of manufacturer's specifications.

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

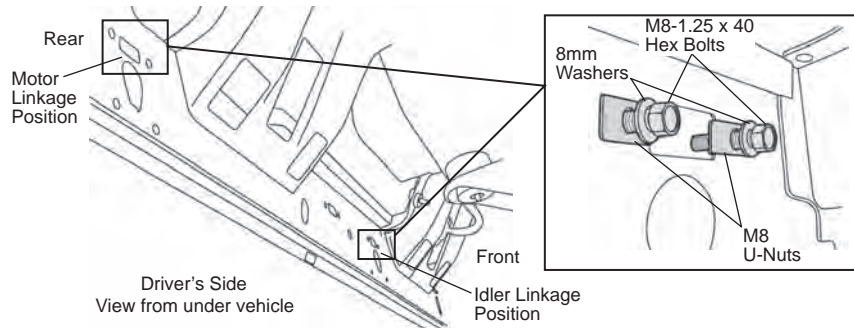
Parts List and Hardware Identification



PowerBoard – Installation Instructions

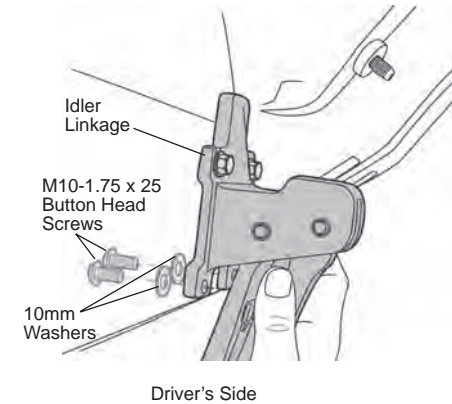
1 Install M8 U-Nuts

Counting from the front, locate the second (2nd) and last set of mounting holes on the inner sill on the driver's side. Use an M8-1.25 x 40 Hex Bolt and an 8mm Washer to install an M8 U-Nut on each side of each hole. Do not tighten the bolts at this time.



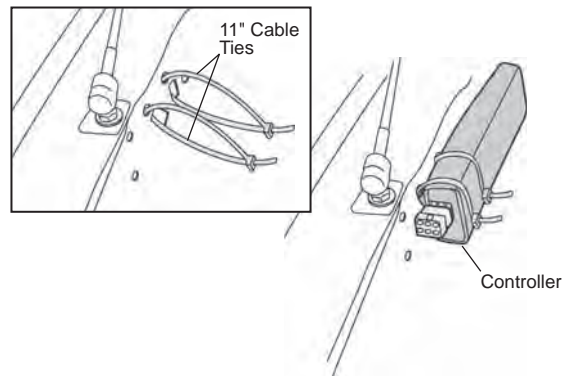
2 Install Linkages

Install a Motor Linkage in the rear hole and an Idler Linkage in the front hole. Slip the notches in the Linkages under the bolts and washers installed in Step One. Secure the bottom of the Linkages with two M10-1.75 x 25 Button Head Screws and two 10mm Washers. Tighten the fasteners to 16 ft. lbs. Repeat Steps One and Two on the passenger side of the vehicle.



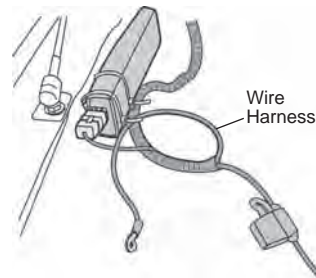
3 Install Controller in Vehicle

Loop the two (2) 11" Cable Ties through the holes in the side of the engine compartment. Slide the Controller into the loops and tighten them.



4 Connect Wire Harness to Controller

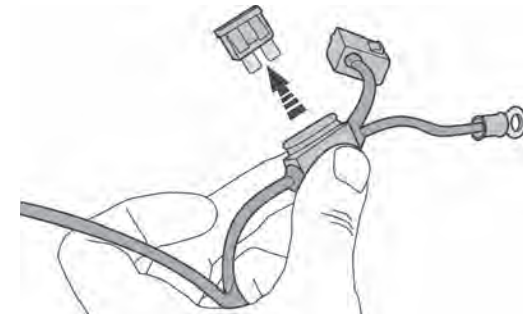
Connect the Wire Harness to the Controller. Make sure that the locking tabs on the connectors are fully engaged.



⚠ WARNING Remove the fuse from the Wiring Harness.

5 Remove Fuse from Wiring Harness

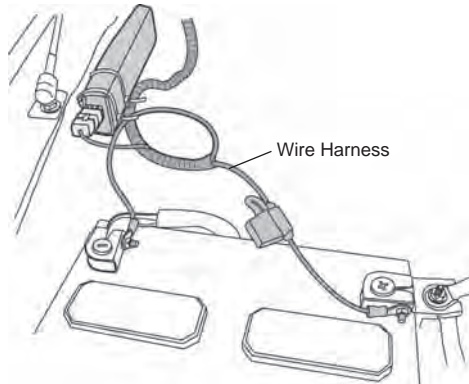
Remove the fuse from the Wiring Harness. Failure to do so could result in severe electrical shock which could harm the installer and/or damage the vehicle.



PowerBoard – Installation Instructions

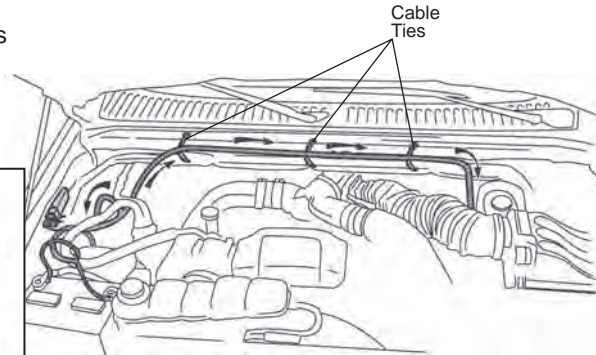
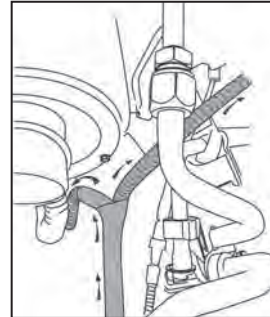
6 Secure Controller and Wire Harness

Connect the Controller power and ground to battery, red lead to positive and black lead to negative.



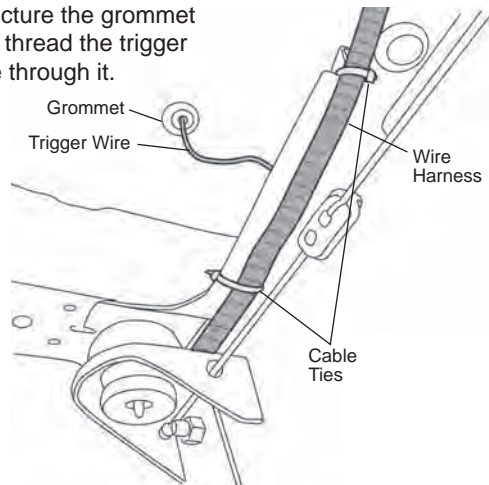
7 Route Wire Harness

Route the Wire Harness legs down to the wheels wells and to the Motor Linkages. The long leg goes across the front to the driver's side. Use Cable Ties to secure all loose sections of the harness.



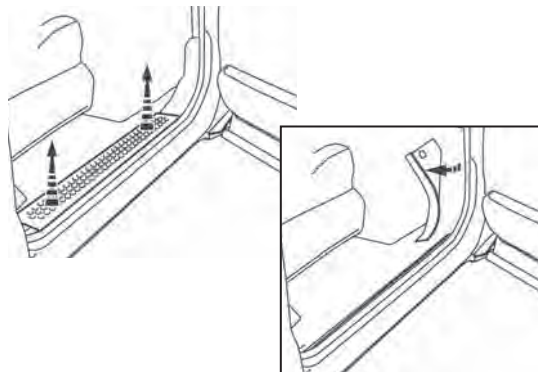
8 Route Wire Harness

Puncture the grommet and thread the trigger wire through it.



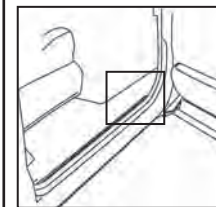
9 Remove Kick Panel

Open the passenger door and remove the step plate and kick panel.

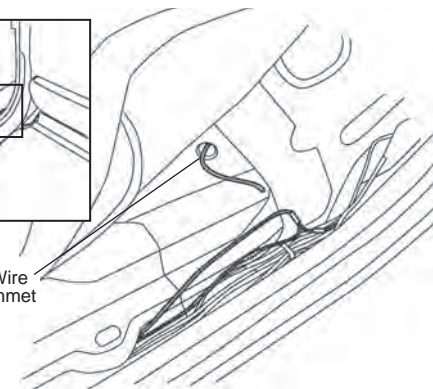


10 Route Trigger Wire

Pull back the carpet and pull the trigger wires through the grommet. Seal the holes in the grommet with silicone sealant.



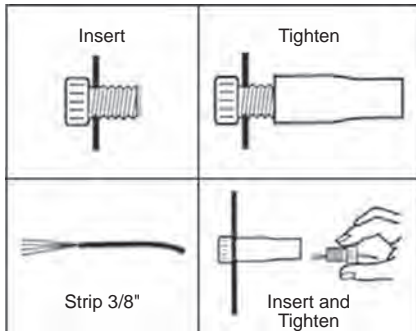
Pull Trigger Wire through Grommet



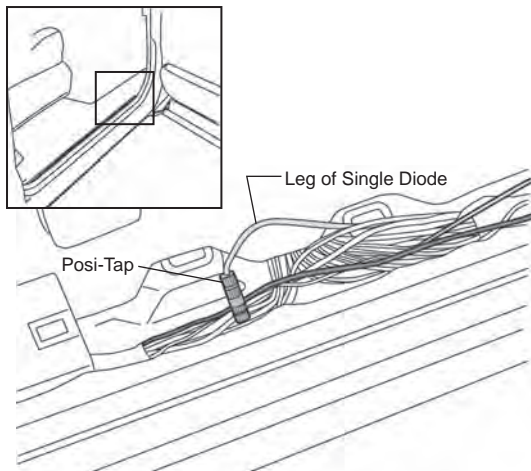
PowerBoard – Installation Instructions

11 Wiring

Use a Posi-Tap connector to make wiring connections. See the Wiring Information for your vehicle for details and step-by-step instructions. Colors and procedures vary according to model year.

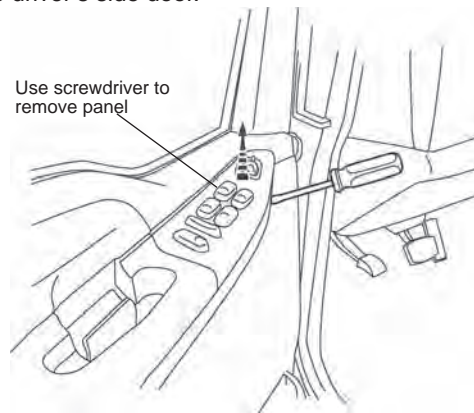


Posi-Tap™ Instructions



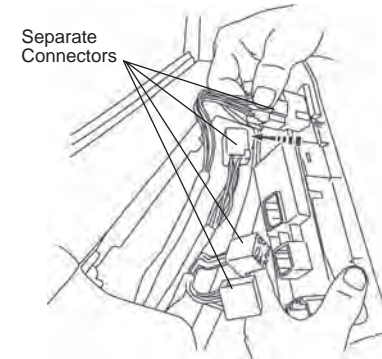
12 Remove Driver's Side Door Button Panel - Prior to 2007 Only

Use a flat screwdriver to pry up the button panel on the driver's side door.



13 Disconnect Driver's Side Button Panel - Prior to 2007 Only

Separate the connectors and remove the panel from the driver's side door.



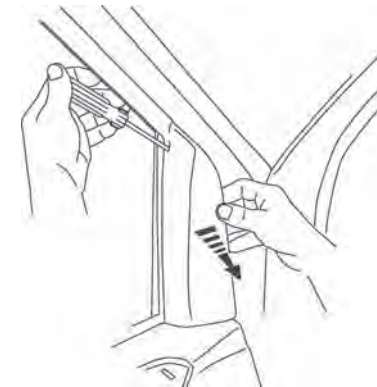
14 Remove Driver's Side Door Light Lens - Prior to 2007 Only

Use a flat screwdriver to pry out the light lens on the driver's side door.



15 Remove Driver's Side Upper Door Molding - Prior to 2007 Only

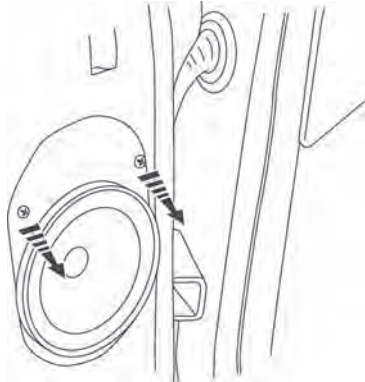
Remove the upper door molding on the driver's side door.



PowerBoard – Installation Instructions

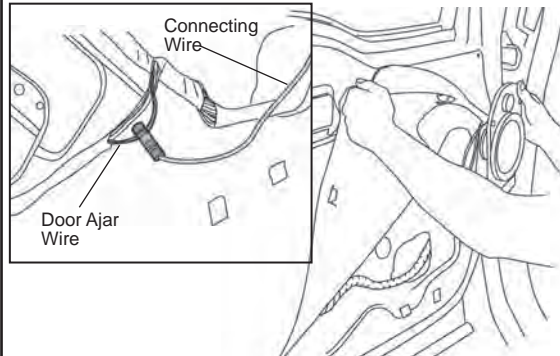
16 Remove Driver's Speaker Screws - Prior to 2007 Only

Remove the screws that attach the speaker to the driver's side door.



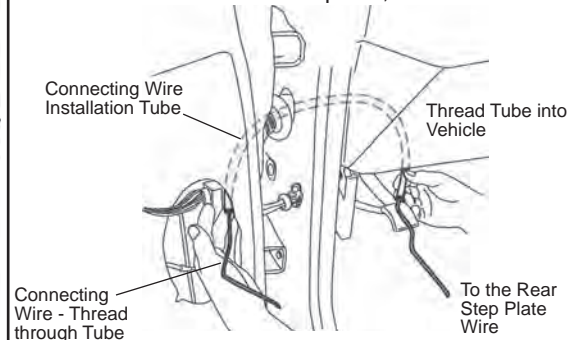
17 Install Connecting Wire - Prior to 2007 Only

Pull back the molding on the door to access the wiring and splice a Single Diode Harness and the Connecting Wire into position according to the wiring diagram that applies to your vehicle.



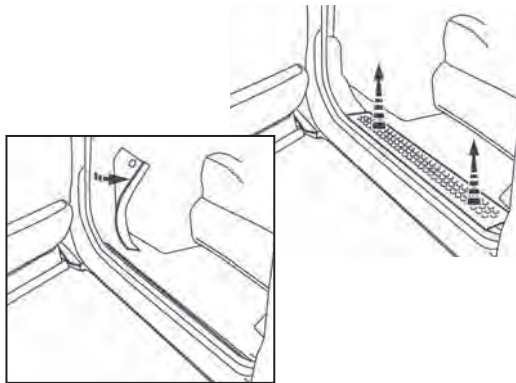
18 Thread Connecting Wire - Prior to 2007 Only

Locate the plastic Connecting Wire Installation Tube in the parts kit. Thread the tube into the hole in the door, through the openings in the door and into the vehicle. Then thread the Connecting Wire through the tube. Once the wire is in place, remove the tube.



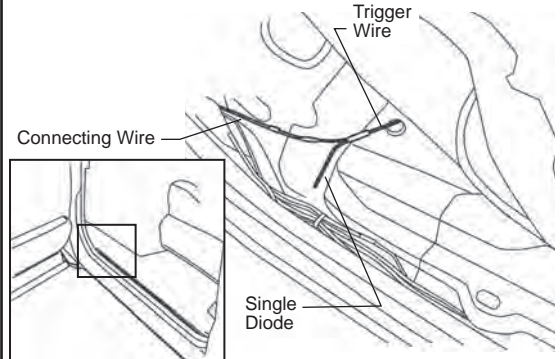
19 Remove Kick Panel

Open the driver door and remove the step plate and kick panel.



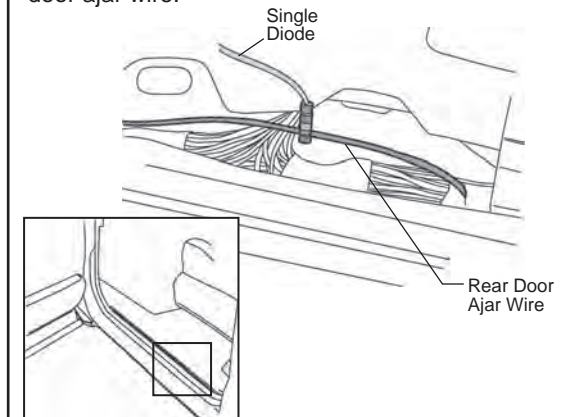
20 Route Trigger Wire

Pull back the carpet and pull the trigger wires through the grommet. Connect to a Single Diode connector. Seal the holes in the grommet with silicone sealant.



21 Connect Trigger Wire

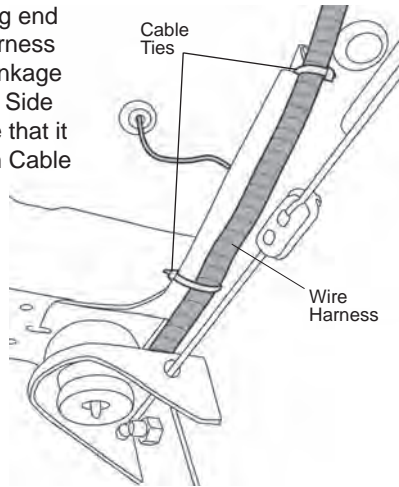
Connect the open leg of the Single Diode to the rear door ajar wire.



PowerBoard – Installation Instructions

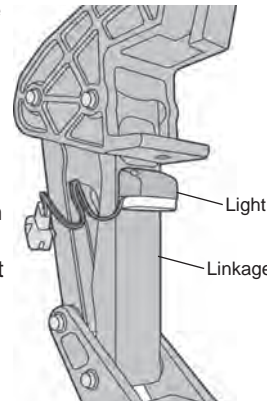
22 Secure Harness – Driver’s Side

Thread the plug end of the Wire Harness to the Motor Linkage on the Driver’s Side and make sure that it is secured with Cable Ties.



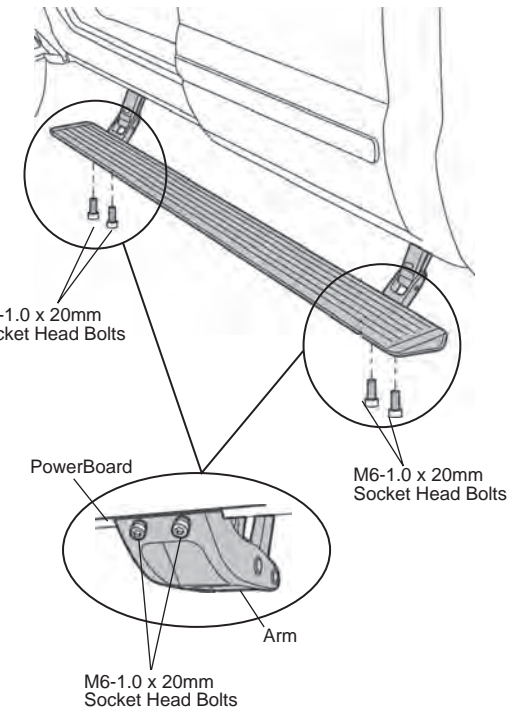
23 Install Lights

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.



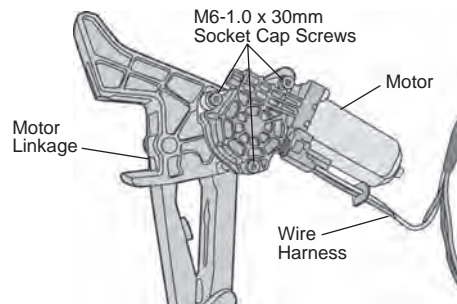
24 Install Running Boards

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.



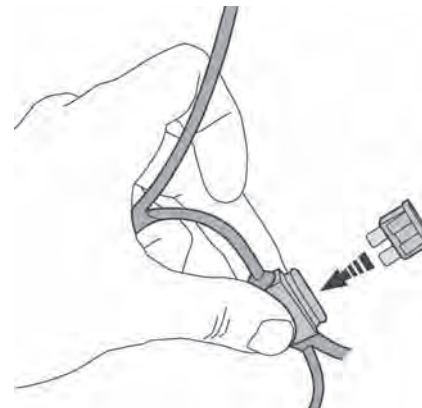
25 Install Motor

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.



26 Reinstall Fuse

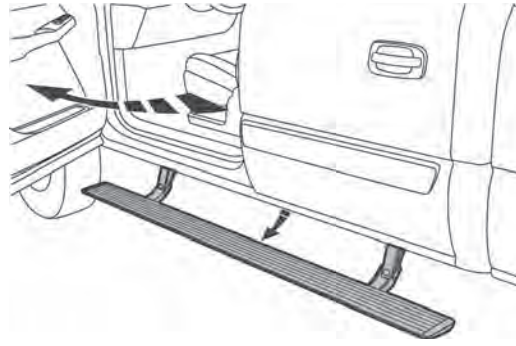
Reinstall the fuse in the harness.



PowerBoard – Installation Instructions

27 Test Doors

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



28 Reassemble Doors

Once you have confirmed that the PowerBoard works properly reassemble the doors, if necessary, and reinstall the kick plates and door sills.

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:

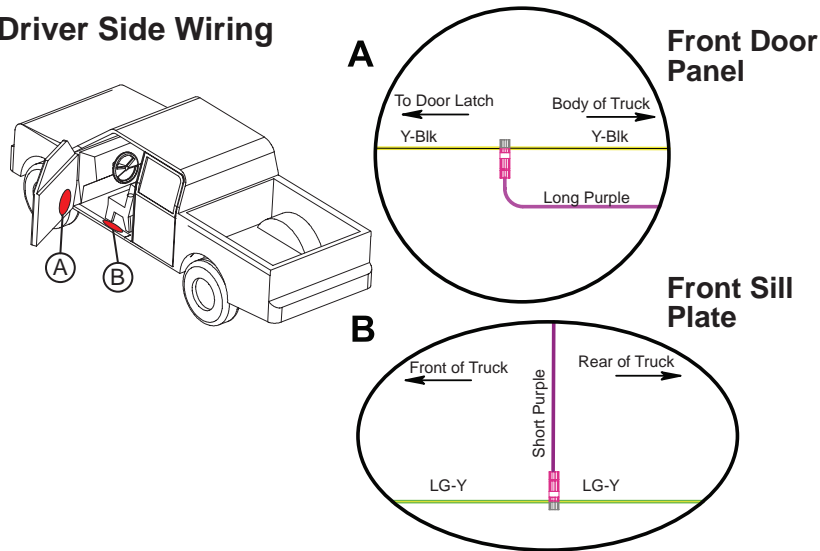
Bestop Inc. Customer Service
Toll-Free: (800)845-3567
Main: (303)465-1755
E-mail: csbestop@Bestop.com
Website: www.Bestop.com

PowerBoard – Wiring Instructions

Ford Super Duty (2007)
with remote keyless entry

07
W

Driver Side Wiring



1. Remove front kick panel and locate bundle of wires leaving front door just above e-brake assembly (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).

CAUTION: You may find two (2) wires with these colors; the correct wire will ground when the door is open (ohm meter will read low resistance with door open and OL (open line) with door closed).

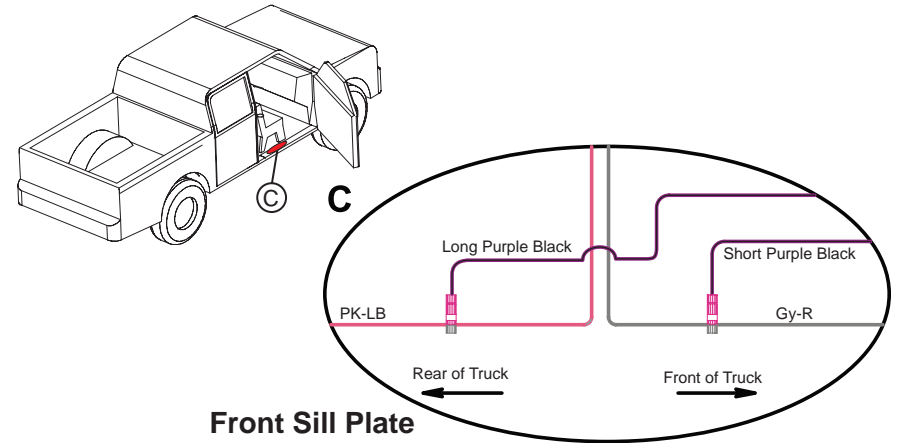
2. Using supplied Posi-Tap connectors, splice long purple trigger wire into yellow with black stripe wire.

3. Use supplied Posi-Tap connectors to splice remaining purple trigger wire into rear door ajar wire (light green with yellow stripe).

CAUTION: You may find two (2) wires with these colors; the correct wire will ground when the door is open (ohm meter will read low resistance with door open and OL (open line) with door closed).

Posi-Tap™
Connector

Passenger Side Wiring



1. Remove sill plate and open wire bundle and locate door ajar wires (Rear: pink with light blue stripe: front: grey with red stripe. Both wires pass under front seat as shown in Figure C.

2. Use supplied Posi-Tap connectors to splice a purple-black wire into each door ajar wire.

Notes:

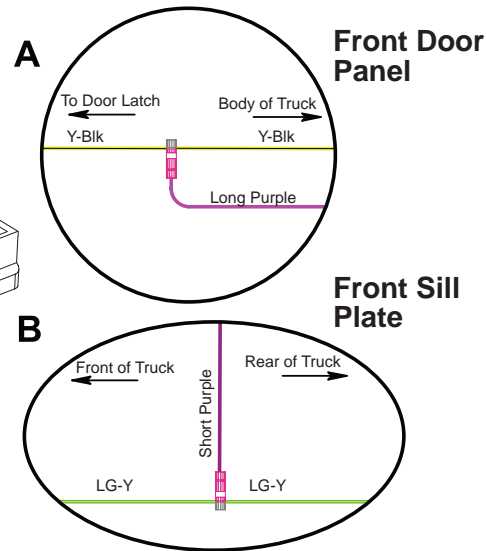
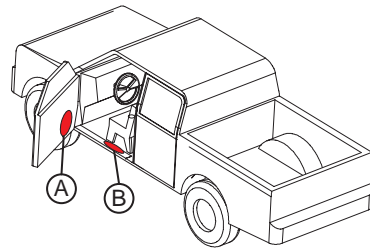
- All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
- Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
- Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

PowerBoard – Wiring Instructions

Ford Super Duty (2004 – 2006)
with remote keyless entry

04 - 06
W

Driver Side Wiring



1. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).
- CAUTION: You may find two (2) wires with these colors; use wire that leads out to door latch.**
2. Route the long purple wire through the door.
3. Using supplied Posi-Tap connectors, splice the purple wire into yellow with black stripe wire.
4. Use supplied Posi-Tap connectors to splice purple trigger wire into rear door ajar wire (light green with yellow stripe).

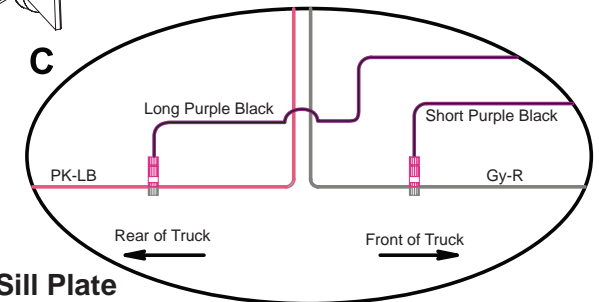
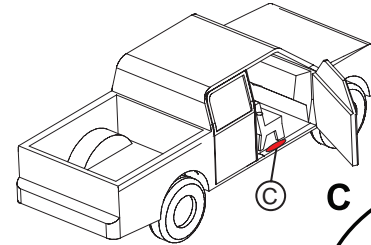
CAUTION: You may find two (2) wires with these colors; the correct wire will ground when the door is open (ohm meter will read low resistance with door open and OL (open line) with door closed.

Notes:

1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

Posi-Tap™
Connector

Passenger Side Wiring



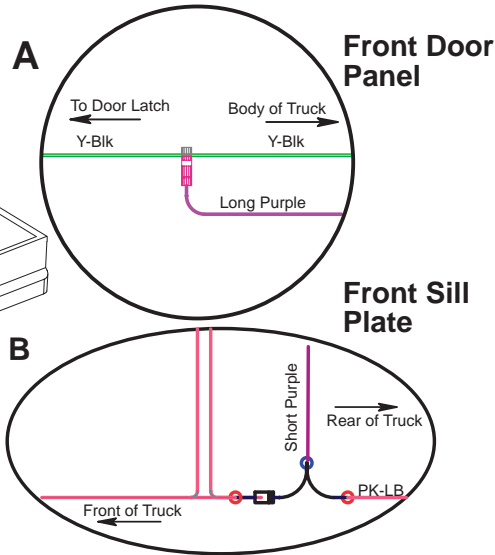
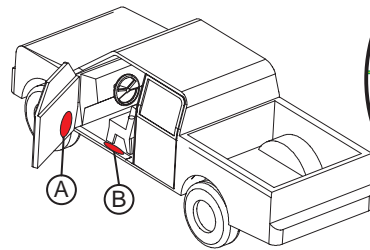
1. Remove sill plate and open wire bundle and locate door ajar wires (Rear: pink with light blue stripe: front: grey with red stripe. Both wires pass under front seat as shown in Figure C.
2. Use supplied Posi-Tap connectors to splice a purple-black wire into each door ajar wire.

PowerBoard – Wiring Instructions

Ford Super Duty (2004 – 2006)
without remote keyless entry

04 - 06
W/O

Driver Side Wiring



1. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).

CAUTION: You may find two (2) wires with these colors; use wire that leads out to door latch.

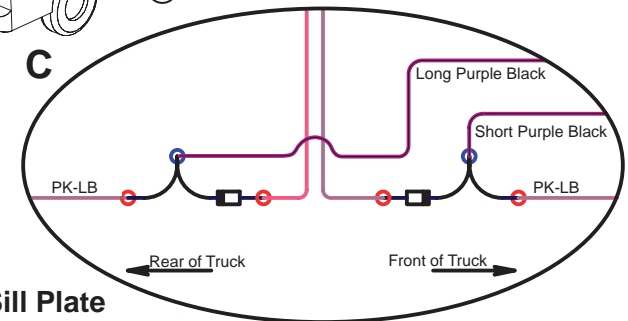
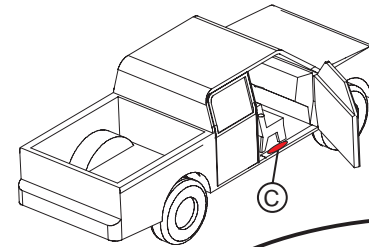
2. Route the long purple wire through the door.
3. Using supplied Posi-Tap connectors, splice the purple wire into yellow with black stripe wire.
4. Use supplied Posi-Tap connectors to splice purple trigger wire into rear door ajar wire (light green with yellow stripe).

CAUTION: You may find two (2) wires with these colors; the correct wire will ground when the door is open (ohm meter will read low resistance with door open and OL (open line) with door closed).

Notes:

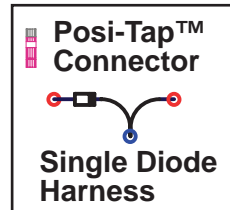
1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

Passenger Side Wiring



Front Sill Plate

1. Remove front sill plate and open wire bundle and locate rear door ajar wire (pink with light blue stripe). This wire will be located rear of the junction where the wires route under the front passenger seat.
2. Cut wire and install Single Diode harness as shown in Figure C.
3. Locate front door ajar wire (also pink with light blue stripe). This wire will be located in front of the junction where the wires route under the front passenger seat.
4. Cut wire and install Single Diode harness as shown in Figure C.
5. After both Single Diode harnesses have been installed, attach a purple-black trigger wire to each blue connector on each diode harness.



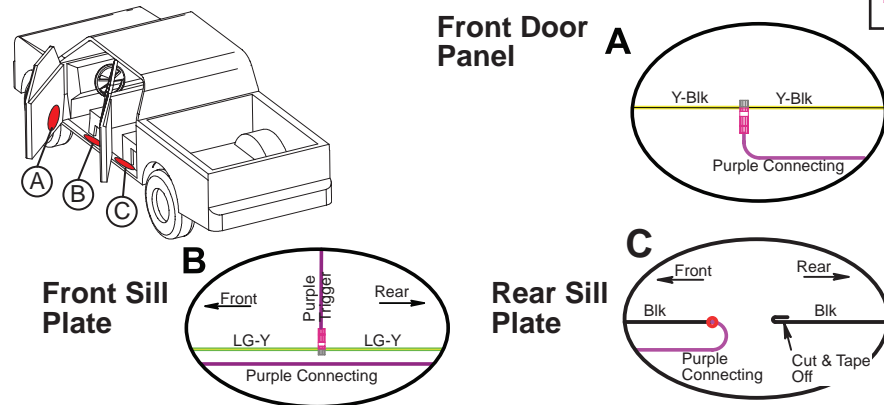
PowerBoard – Wiring Instructions

**Ford Super Duty (2002 – 2003)
with remote keyless entry**

**02 - 03
W**

NOTE Due to Ford factory wiring changes, some 2002-2003 models require the two wires going to each motor plug to be reversed for the boards to operate properly when using the supplied controller. As a result the lights will not work correctly. Do not install light kit at this time. Call (800) 845-3567 to get a different controller (part number 473.30) that will operate the lights correctly.

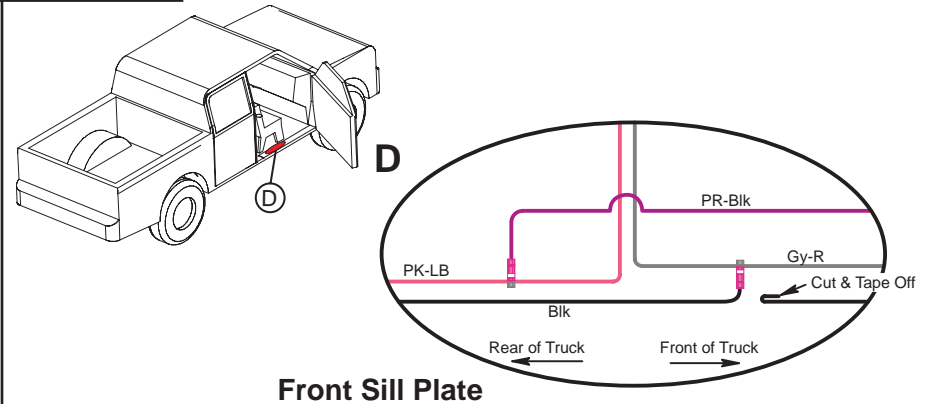
Driver Side Wiring



1. Cut one purple wire next to the controller plug. Pull the wire out of the harness and save for use as a connecting wire.
2. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).
CAUTION: You may find two (2) wires with these colors; use wire that leads out to door latch.
3. Using supplied Posi-Tap connectors, splice a purple connecting wire into yellow with black stripe wire.
4. Route purple wire back into cab of vehicle and back toward rear sill plate.
5. Remove rear sill plate, open wire bundle and locate 18Ga black wire. Cut this wire and attach the end of the purple connecting wire from Step 3 as shown in Figure C.
6. Use supplied Posi-Tap connectors to splice purple trigger wire into rear door ajar wire (light green with yellow stripe) located under front sill plate.
CAUTION: You may find two (2) wires with these colors; the correct wire will ground when the door is open (ohm meter will read low resistance with door open and OL (open line) with door closed).

**Posi-Tap™
Connector**

Passenger Side Wiring



1. Remove passenger side front sill plate, open wire bundle and locate door ajar wires (pink with light blue stripe). This wire will be located rear of the junction where wires route under passenger seat.
2. Use supplied Posi-Tap connectors to splice a purple-black trigger wire into door ajar wire.
3. Cut the black 18Ga wire found in wire bundle, forward of junction where wires route under front seat.
4. Use supplied Posi-Tap connectors to splice a rear section of cut black wire into front door ajar wire (grey with red stripe) as shown.
5. Tape off the remaining open end of the black wire (front section).
6. The second purple-black wire will not be used.

Notes:

1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

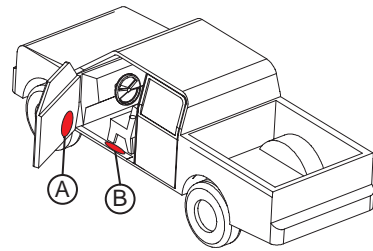
PowerBoard – Wiring Instructions

**Ford Super Duty (2002 – 2003)
with remote keyless entry**

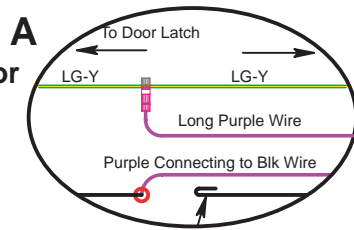
**02 - 03
W/O**

NOTE Due to Ford factory wiring changes, some 2002-2003 models require the two wires going to each motor plug to be reversed for the boards to operate properly when using the supplied controller. As a result the lights will not work correctly. Do not install light kit at this time. Call (800) 845-3567 to get a different controller (part number 473.30) that will operate the lights correctly.

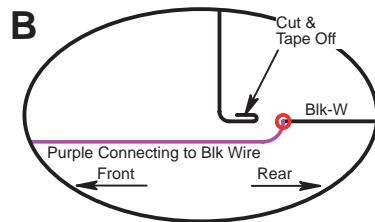
Driver Side Wiring



Front Door Panel



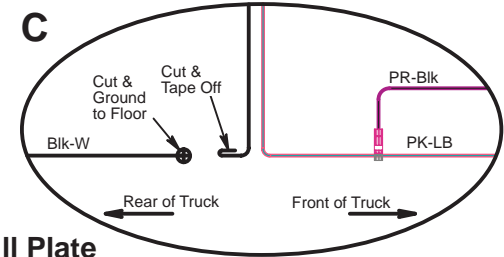
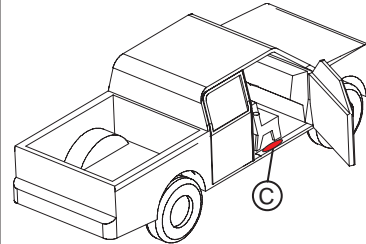
Front Sill Plate



1. Cut the purple wire next to the controller plug. Pull the wire out of the harness and save for use as a connecting wire.
2. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (light green with yellow stripe).
3. Route the long purple wire through the door. Using supplied Posi-Tap connectors, splice the long purple wire into light green with yellow stripe wire.
4. Locate black 18Ga wire in the same area (Area A). Cut wire and attach the purple connecting wire to one end as shown. Tape off the open end as shown.
5. Route the connecting wire through the door and accordion back toward the front sill plate (Area B).
6. Open wire bundle under front sill plate and locate the door ajar wire (black with white stripe).
7. Cut this wire and connect the other end of the purple connecting wire that comes from the black wire of Step 3 to the rear end of the wire. Tape off the open end of the cut wire as shown in Figure B.

**Posi-Tap™
Connector**

Passenger Side Wiring



Front Sill Plate

1. Remove passenger side front sill plate, open wire bundle and locate front door ajar wire (pink with light blue stripe). This wire will be located forward of the junction where wires route under passenger seat.
2. Use supplied Posi-Tap connectors to splice a purple-black trigger wire into door ajar wire (pink with light blue stripe).
3. Locate the ground wire for the rear door ajar wire (black with a white stripe). This wire will be located to rear of the junction where the wires route under the passenger front seat.
4. Cut this wire (black with white stripe) and ground the one end to the vehicle's ground as shown. We suggest using ring terminal and sheet metal screw or extend wire to a grounded terminal. Tape off the open end.
6. The second purple-black wire will not be used.

Notes:

1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

PowerBoard – Wiring Instructions

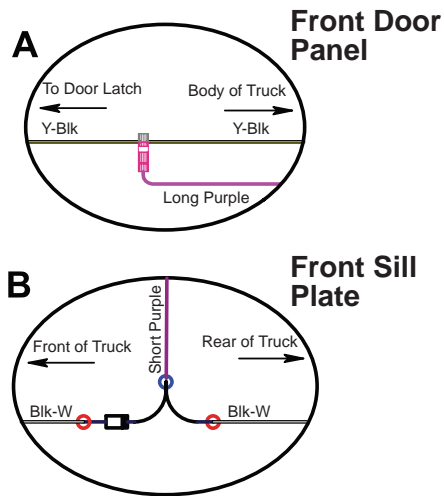
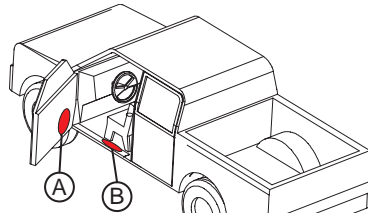
**Ford Super Duty (2001)
with remote keyless entry**

**99 - 01
W**

NOTE

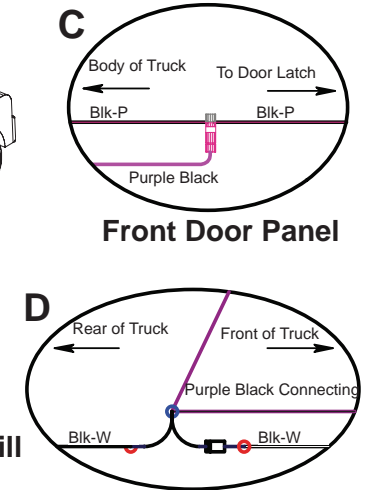
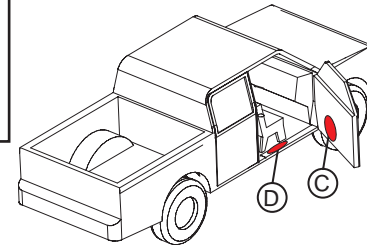
On 2001 and older models the factory harness does not split and cross over from passenger to driver side under front seats, but does on all other model years.

Driver Side Wiring



1. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).
- CAUTION: You may find two (2) wires with these colors; use wire that leads out to door latch.**
2. Route the long purple trigger wire through the door.
3. Using supplied Posi-Tap connectors, splice the purple wire into yellow with black stripe wire.
4. Remove the front sill plate. Open wire bundle and locate rear door ajar wire (black with white stripe).
5. Cut wire and install Single Diode harness as shown in Figure B.
6. Connect blue connector of Single Diode harness to purple trigger wire that was pulled through the floor.

Passenger Side Wiring



1. Cut the long purple wire with black stripe next to the controller plug. Pull the wire out of the harness and save for use as a connecting wire.
2. Use supplied Posi-Tap™ connectors to splice the purple-black connecting wire into black with pink stripe wire.
3. Route the purple-black wire back into cab of vehicle and down to sill plate.
4. Remove step plate (Area D), open wire bundle and locate rear door ajar wire (black with a white stripe).
5. Cut wire and install a Single Diode harness oriented as in Figure C.
6. Attach connecting wire from Step 3 and purple-black signal wire from PowerBoard harness to Single Diode harness as shown in Figure D.

Notes:

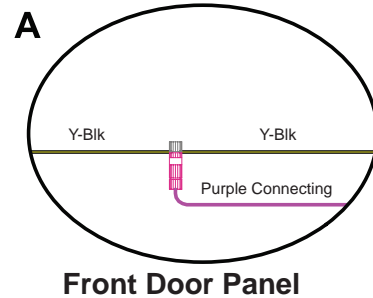
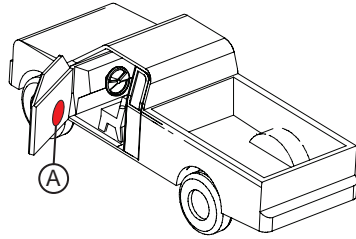
1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.

PowerBoard – Wiring Instructions

Ford Super Duty (2004 – 2006) Regular Cab & Extended Cab
with remote keyless entry

04 - 06
W

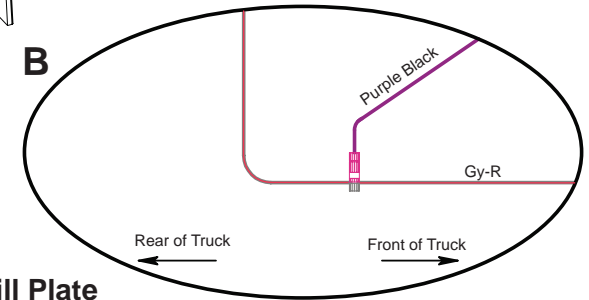
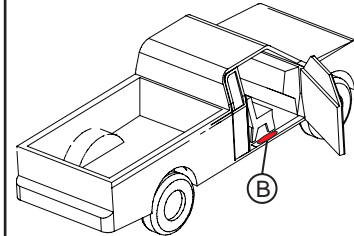
Driver Side Wiring



1. Remove front door panel and locate bundle of wires below and to the left of speaker (Area A). Open bundle and locate 18Ga Door Ajar Wire (yellow with black stripe).
- CAUTION: You may find two (2) wires with these colors; use wire that leads out to door latch.**
2. Route the long purple trigger wire through the door.
 3. Using supplied Posi-Tap connectors, splice the purple wire into yellow with black stripe wire.
 4. The other purple wire will not be used.

Passenger Side Wiring

Posi-Tap™
Connector



1. Remove passenger side sill plate. Open wire bundle and locate door ajar wire (grey with red stripe).
2. Use supplied Posi-Tap connectors to splice a purple-black trigger wire into grey with red stripe wire.
3. The other purple-black wire will not be used.

Notes:

1. All signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gauge than this.
2. Occasionally the wire colors do not match the wire schematics. Under these circumstances, you will need to locate the door ajar signal wires. Each door will have one wire leading out to its latch and one ground wire coming away. The ground wire will usually be solid black. The signal wire needed is the other wire.
3. Make sure you secure all wires after installation. Loose wires can be damaged and may cause a failure of the PowerBoard's function.