# INSTALLATION GUIDE



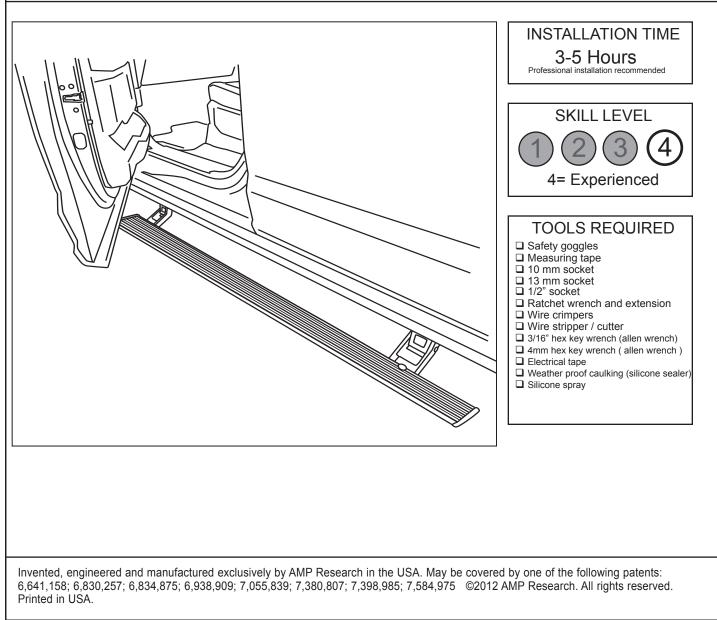
APPLICATION

AMP Part #

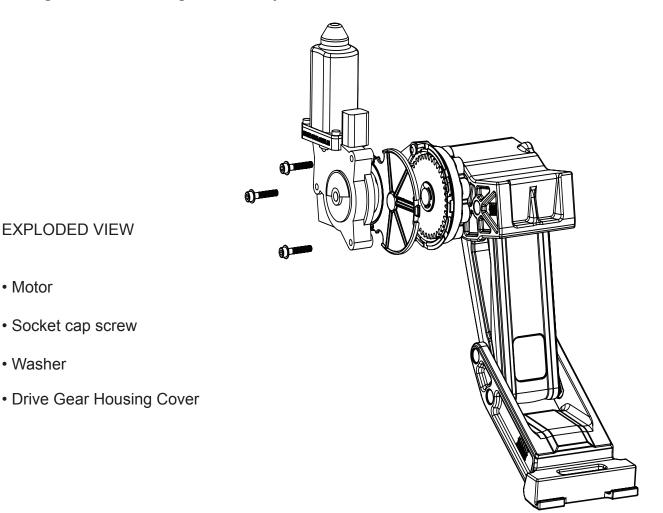
Ford F150 - SuperCrew 2004-2008

77105-01A

Note: The application works only on the Super Crew model Vehicles.



**INSTALLATION GUIDE** Attaching motor to Linkage assembly.



# CAUTION: HANDLE WITH CARE.

To ensure our customers receive all components with full integrity, we pack the motors separate from their linkage assemblies. This requires that the installer position and fasten the motor before continuing with the install. Please follow the instructions below and handle the assembly carefully.

CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor.

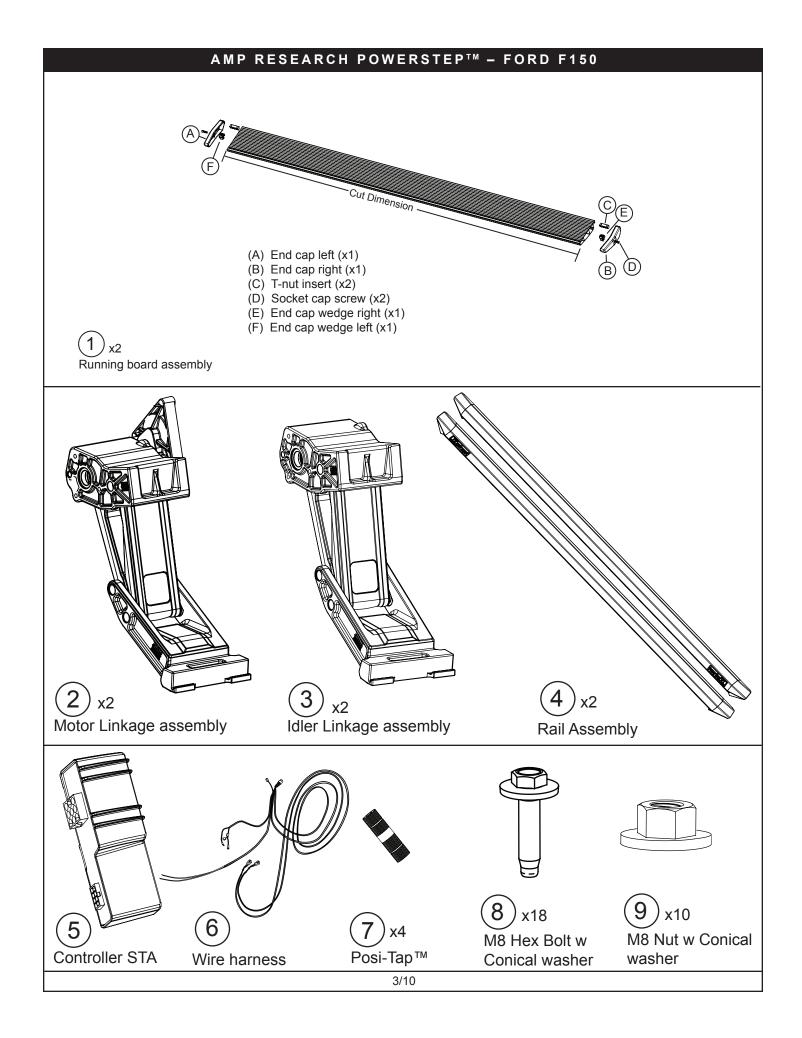
Instructions:

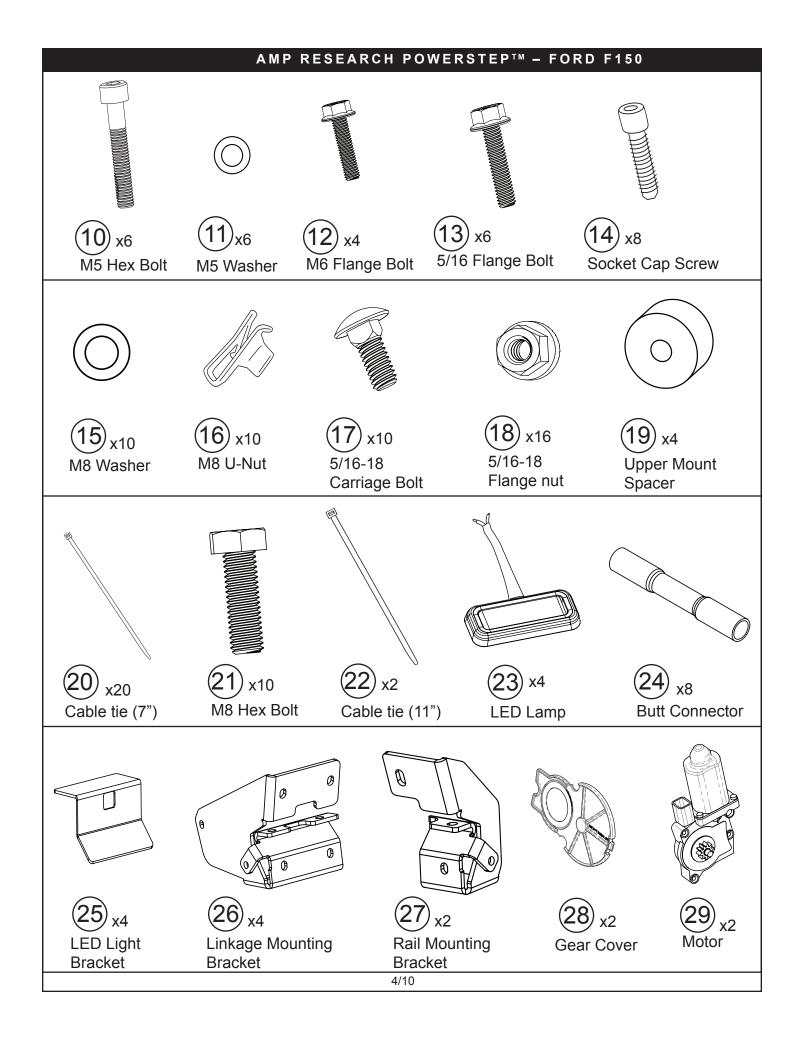
Motor

1. Position the gear cover in place as shown if not already in place.

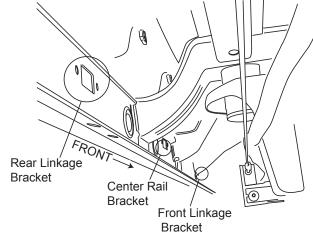
2. Seat motor into position on the three mounting bosses. This may require an adjustment of the gear by moving the swing arms.

3. After seating into place, fasten the motor with the three motor mount screws with 4mm Hex Head. Tighten screws to 36 in-lbs (4N-m). Do not over torque.



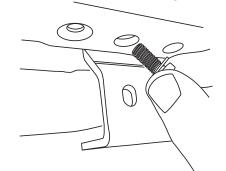


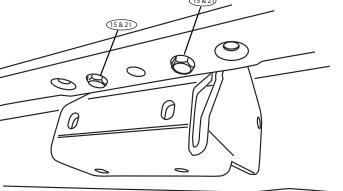
Locate mounting points. Frist middle and last set of holes on the inner sill. Install 5 u nuts (16) in upper mount holes.



# 1

Set Brackets into position and use provided M8 Bolts (21) and washers (15) on outside and provided M8 nuts on the backside. Do not tighten.





# 2

Using provided captive washer m8 bolts (8) install upper bracket hardware to brackets. Do not tighten.

Set Rail up into position. Start with rear bracket work towards the front brackets. Attach Carriage bolts 5x (17) and Flange Nut 5X (18). Center rail at front and rear door line. Torque Flange Nuts to 16 ft-lbs. Insert Flange bolt (13) and nut (18) into side of bracket. Do

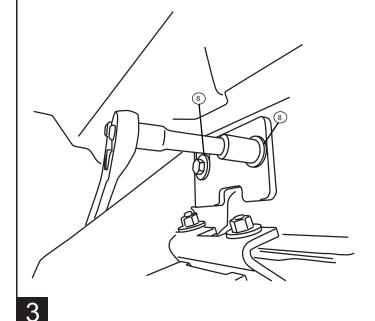
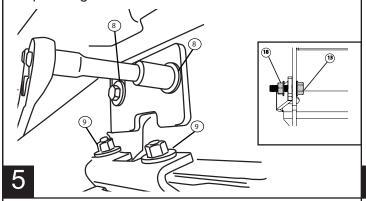
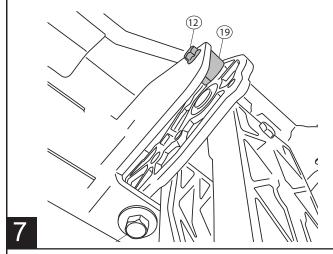


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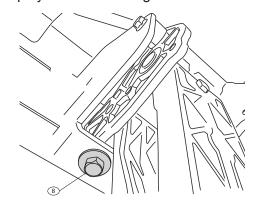
Starting from the rear of the vehicle work your way forward. Using a 13mm socket and wrench tighten Pinch weld bolts (21) and nut (9) first to 16ft-lbs. Next tighten upper sill bolts (8) to 16ft-lbs. Next torque flange bolt and nut on bracket tab to 16ft-lbs.



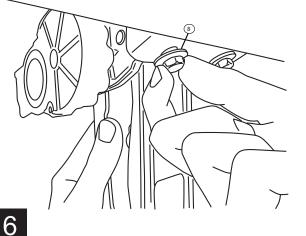
Install provided spacer (19) and M6 bolt (12) into upper mount as shown on both the Drive and Idler linkages. Do not tighten.



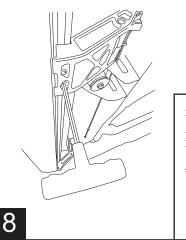
Using a 13mm socket Torque linkage bolts 4x (8) from step 5 to 16 ft-lbs Next use a 10mm socket, torque linkage spacer bolt 2x (12) from step 6 to 8 ft-lbs. Once linkages are tight cycle board to verify steps deploy under own weight.



Thread supplied bolts 2x (8) into Front Idler Linkage. Repeat step for Rear Drive Linkage. Do not tighten.

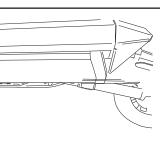


Slide mounting T-nut into position, Center board in rail pocket. Tighten fasteners to 10 ft-lbs.



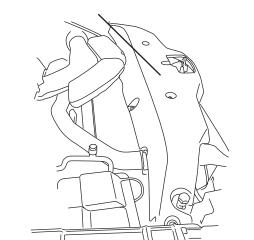
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Attach motor to harness. Using a 4mm hex Torque to 36 in-Lbs.

Remove fan shroud to allow for wire routing. Shroud will be reinstalled in a later step.



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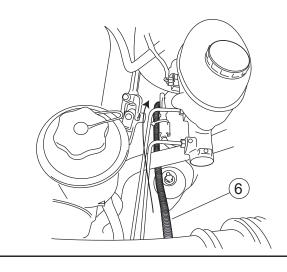
Remove fuse.

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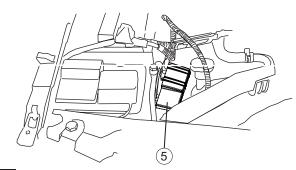
Connect red and black power leads to battery. Red lead goes to positive. Route shorter leg of harness down passenger-side wheel well.

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Route longer leg of harness down along driver-side wheel well and along frame of vehicle. Secure with tie wraps.



Mount controller with the two 11" tie wraps to factory conduit. Route wire harness under core support and down toward controller. Attach harness to controller (make sure connector locking tabs fully engage).



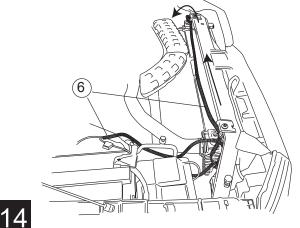
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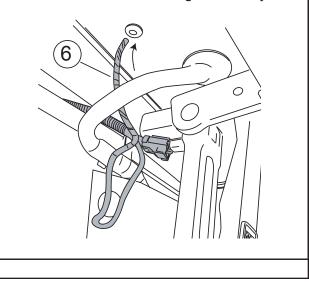
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Secure harness with tie wraps.

Route longer leg of harness across front and down under driver side. Secure harness with tie wraps and reinstall shroud.

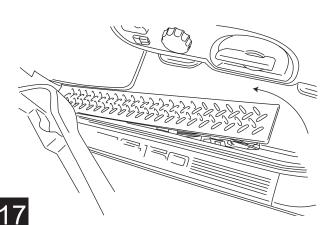


Puncture grommet and thread all four trigger wires up into the cabin of vehicle. The grommet is located on driver-side behind forward linkage assembly.

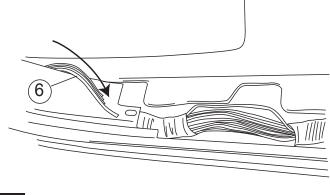


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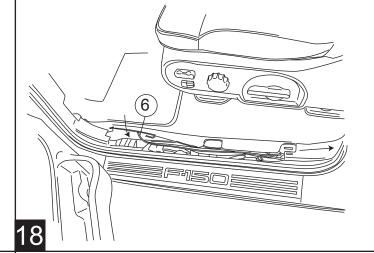
Remove drivers-door sill plate and pull back carpet to reveal trigger wires threaded though grommet.



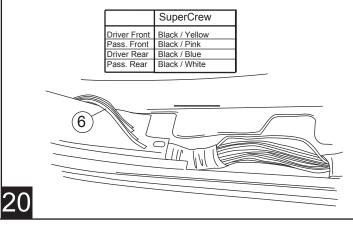
Remove rear door step plate and open wire bundle. Route trigger wires to rear door sill plate.



Pull wires from grommet and route back along factory wire harness to back door sill plate.

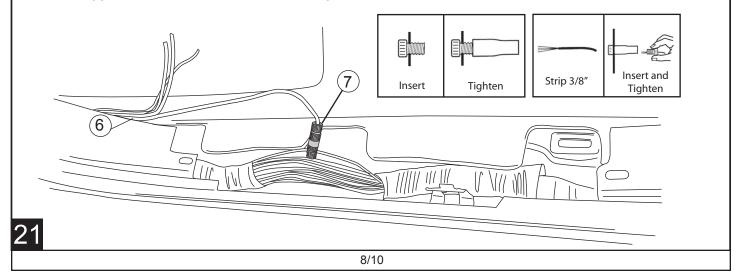


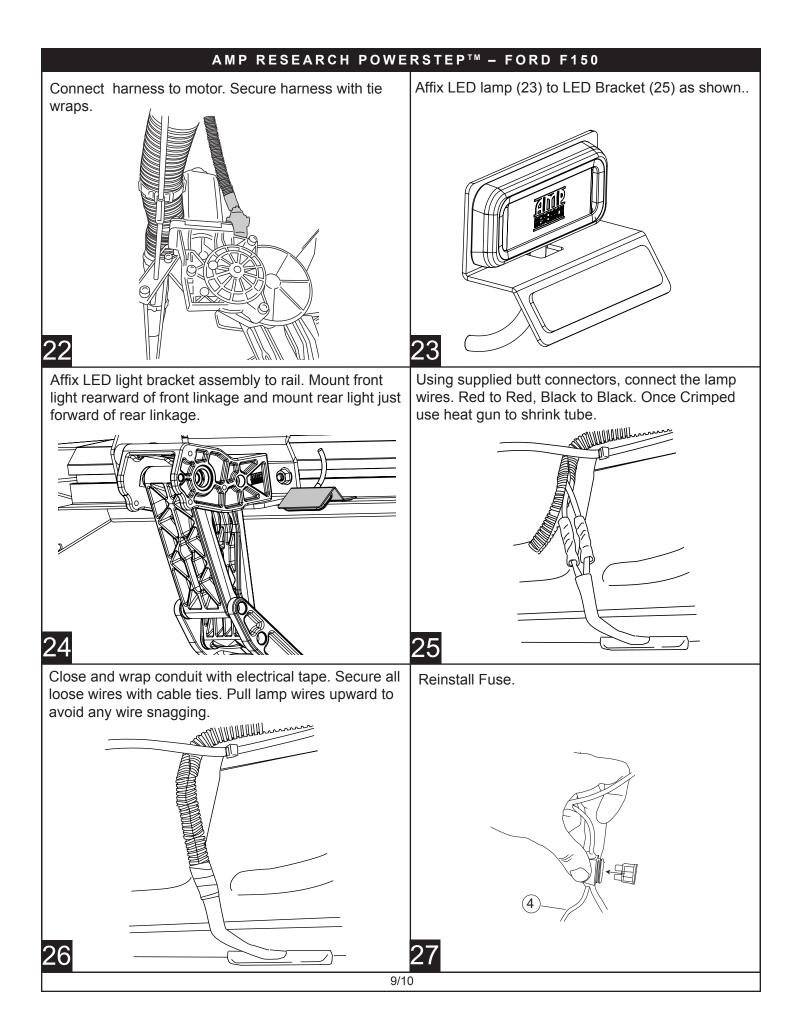
Locate the appropriate signal wires as noted below. Note: There may be up to five Black with Blue Stripe wires; use the one that looks unique (ie. different blue stripe... weight and shade).



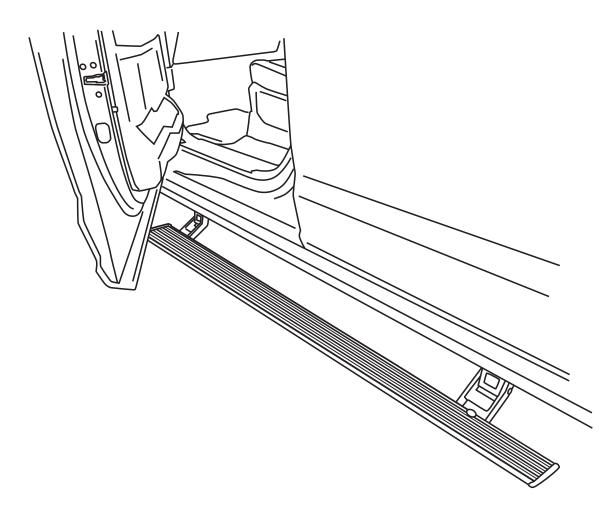
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Using supplied Posi-Taps<sup>™</sup>, splice Power Step trigger wires into the corresponding door ajar wires. The SuperCrew (having 4 independent doors) is the only application that will use all four wires; tape off the two unused trigger wires on the SuperCab and Regular Cab.





Check that all doors activate the Power Step and the LED Lights work when doors open and close. Reinstall any remaining trim panels.



#### FINAL SYSTEM CHECK

Check that all doors activate the PowerStep and the LED lights work when doors open and close. **NORMAL OPERATION:** When the doors open, PowerStep automatically deploys from under the vehicle. When the doors are closed, PowerStep will automatically return to the stowed/retracted position. **Note** *that there is a 2-second delay before the PowerStep returns to the stowed/retracted position.* **CORRECT OPERATION OF LIGHTS:** All four lamps will illuminate upon opening any door of vehicle. Lamps will stay on until restowing of both Power Steps or until 5 minutes has expired with the doors open. When the lights timeout after 5 minutes, they can be reilluminated by closing and opening any door of vehicle.

# апр Research Power Step

# Congratulations on your purchase of the genuine AMP Research PowerStep! Here's what you should know...

**POWER-DEPLOYABLE RUNNING BOARDS OPERATION:** AMP Research PowerStep running boards automatically move when the doors are opened to assist entering and exiting the vehicle.



### Automatic power deploy:

The running boards will extend down and out when the doors are opened.

#### Automatic power stow:

The running boards will return to the stowed position when the doors are closed. There will be a 2-second delay before the running boards move to the stowed position.

#### Automatic stop:

If an object is in the way of the moving running board, the running board will automatically stop. To reset, clear any obstruction, then simply open and close the door to resume normal operation.



#### Manually set in the deployed (OUT) position for access to the roof:

The running boards can be manually set in the deployed position by firmly holding the step down with your foot while at the same time closing the door. To resume normal operation, open and close the door.



**Maintenance:** In adverse conditions, debris such as mud, dirt, and salt may become trapped in the running board mechanism, possibly leading to unwanted noise. If this occurs, manually set the running boards to the deployed position and flush the front and rear hinge arms with a high-pressure car wash wand. <u>Avoid spraying the motors directly</u>. After washing, apply silicone spray lubricant to the hinge pivot pins. Do not apply silicone, wax or protectants like Armor All<sup>®</sup> to the running board stepping surface.

**Caution!** Keep hands away when the running board is in motion.

Looking for dependable running boards and step bars? Rely on AMP Research for quality and long-lasting products.