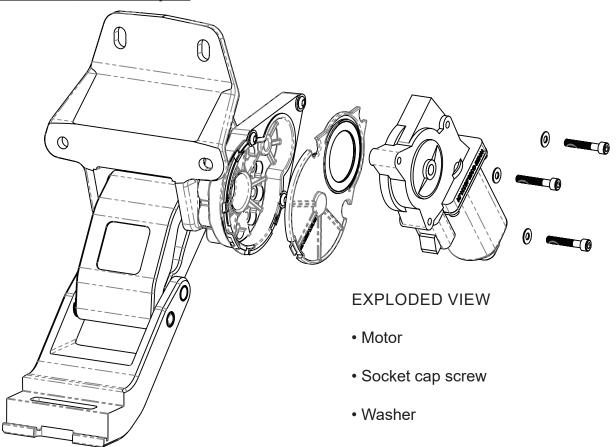
	INSTALL	ATION GUIDE	Ξ	
<b>AM</b> Resear		WECS MADE IN	<b>.</b> ер	
APPLICATION	LENGTH	MODEL YR	PART #	
Ford Expedition MAX	90"'	2020	76337-01A	
			INSTALLATION TIME 2-3 HOURS Professional installation recommended SKILL LEVEL (1) (2) (3) (4) (4) (4) (2) (3) (4) (4) (5) (4) (5) (5) (4) (5) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7	
AMP RESEARCH TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 7:00 AM - 5:00 PM PST Invented, engineered and manufactured exclusively by AMP Research in the USA. May be covered by one of the following patents:				
6,641,158; 6,830,257; 6,834,875; 6,938, Printed in USA.	909; 7,055,839; 7,380,8	07; 7,398,985; 7,584,975 ©20	12 AMP Research. All rights reserved.	
www.amp-research.com		1/9	IM76337 rev 05.05.20	

INSTALLATION GUIDE

Attaching motor to linkage assembly

# The motors must be attached to the linkage assemblies after linkage installation, after Step 1.



### CAUTION: HANDLE WITH CARE.

To insure 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.

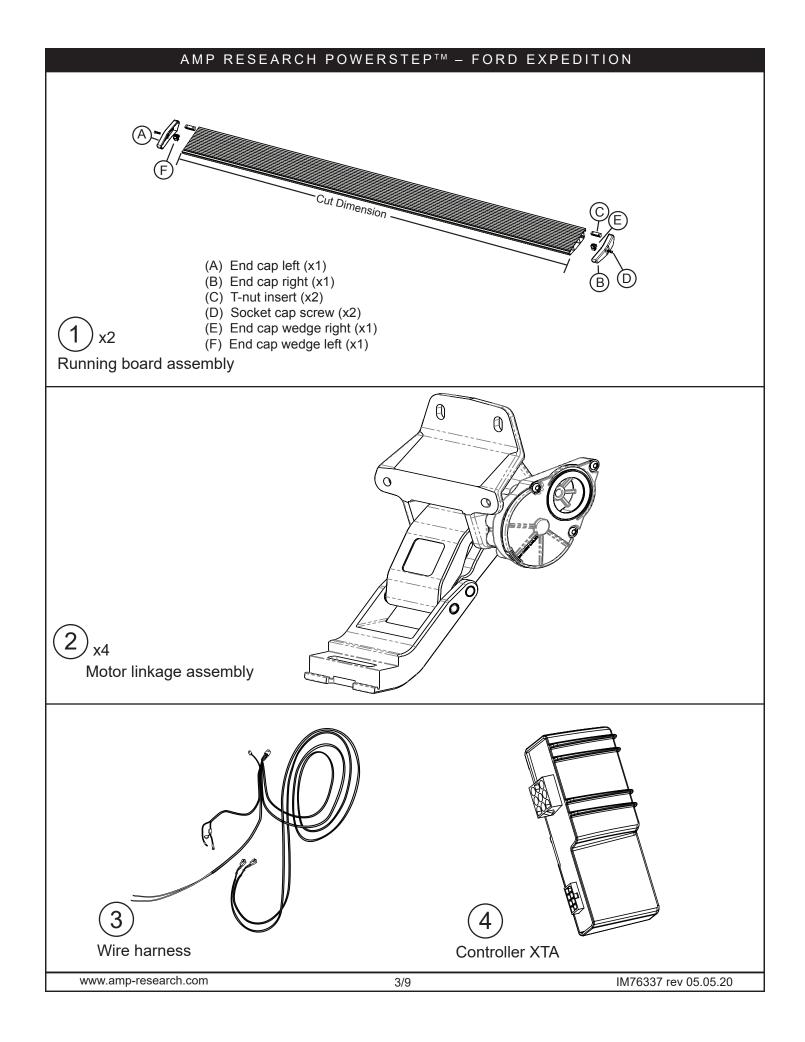
CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor.

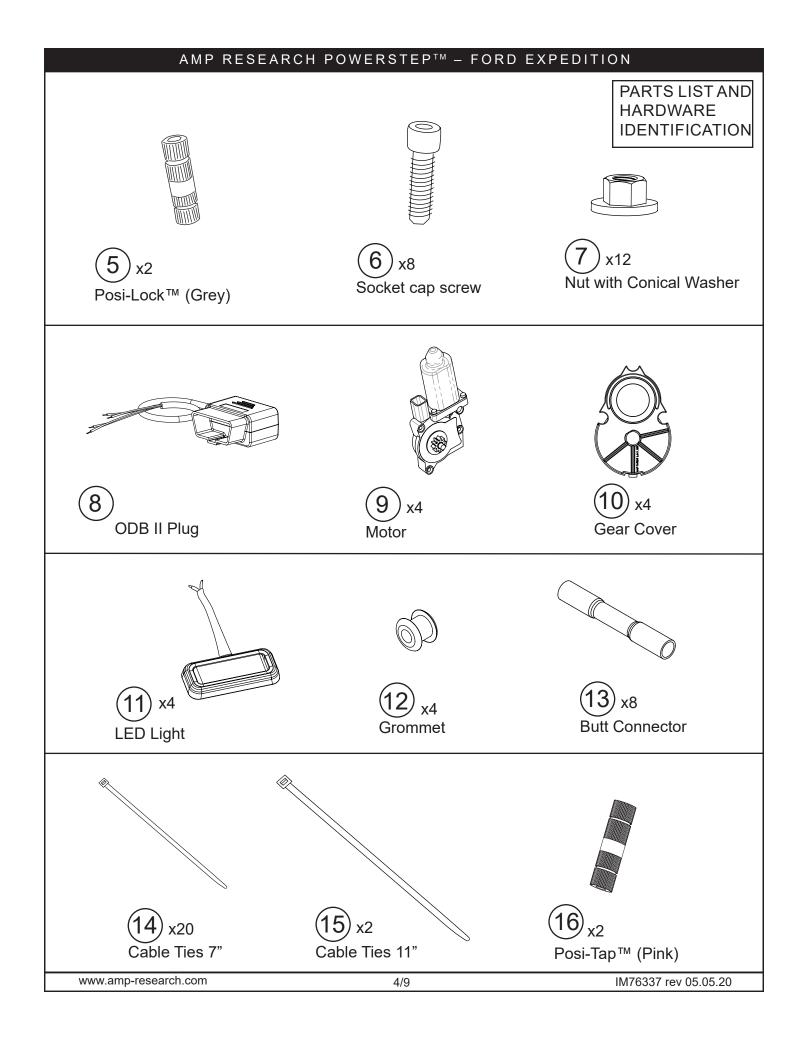
Instructions:

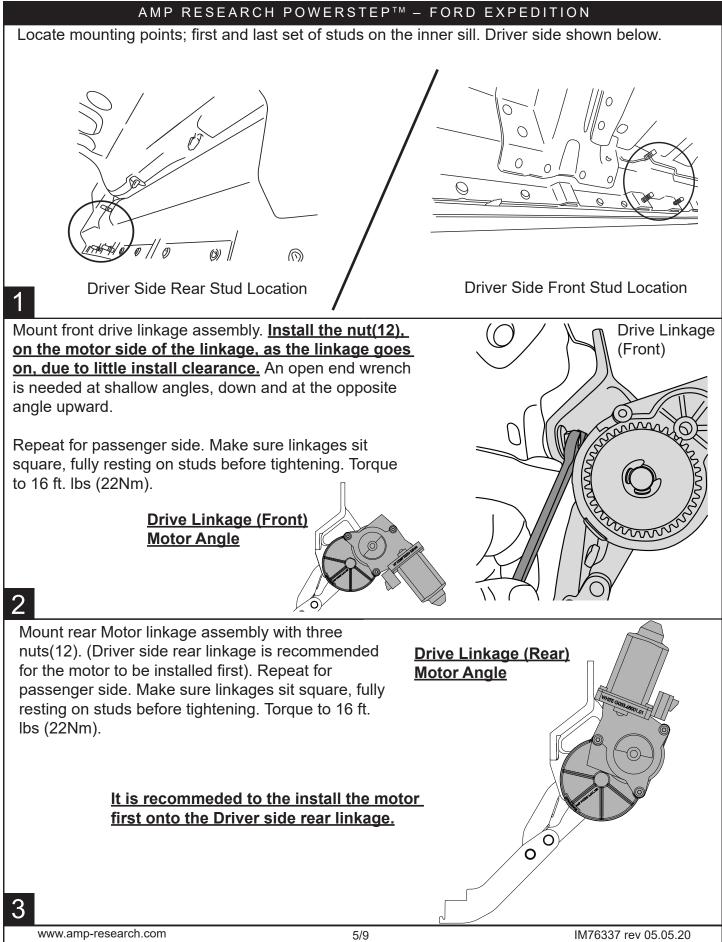
1. Position the gear cover in place as shown if not already in place.

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 allen wrench. Tighten screws to 36 in-lbs (4N-m). Do not over torque.



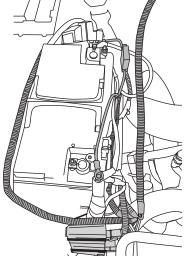




Remove fuse from wire harness



Attach wire harness to controller (make sure connector locking tabs fully engage). Mount controller with the two 11" tie wraps to factory conduit, just forward of battery.

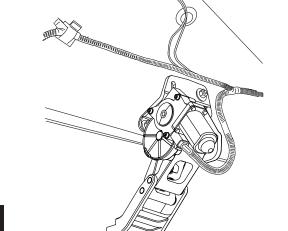


### 4

6

8

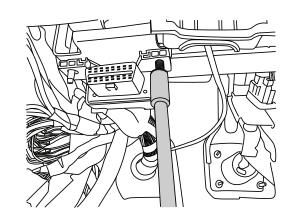
Route factory harness underneath vehicle and plug in motors (both sides). Route remaining LED light wires back towards rear of vehicle.



Remove grommet in floor panel above front linkage on driver side. Poke small hole into grommet and thread the two trigger wires through and up into the cabin of vehicle. Seal grommet with silicone sealer. 7

5

Locate OBD port and remove bolt and nut holding it in place with 8mm socket to gain better access to back side of plug.



www.amp-research.com

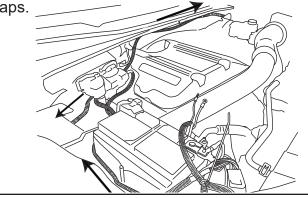
9

POKE SMALL HOLE

6

6

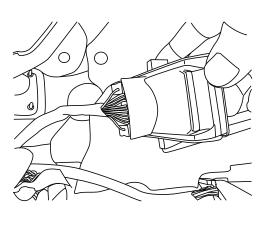
Connect red and black power leads to battery accessory studs. Red lead goes to positive. Route shorter leg of harness down passengerside wheel well and longer leg of harness down along driver side wheel well. Secure with tie wraps.



Remove driver side front kick panel and door sill plate. Roll back carpet to access hole for passing trigger wires into cab of vehicle.

Locate the following wires and connect with supplied Posi-Tap<sup>™</sup> to the following wire colors listed below.

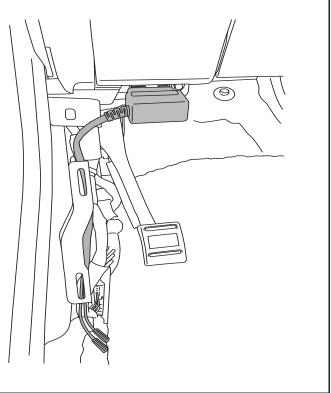
Factory Can Wire	OBD Module wire Color	
Grey with Orange Stripe	White Wire	
Purple with Orange Stripe	Blue Wire	



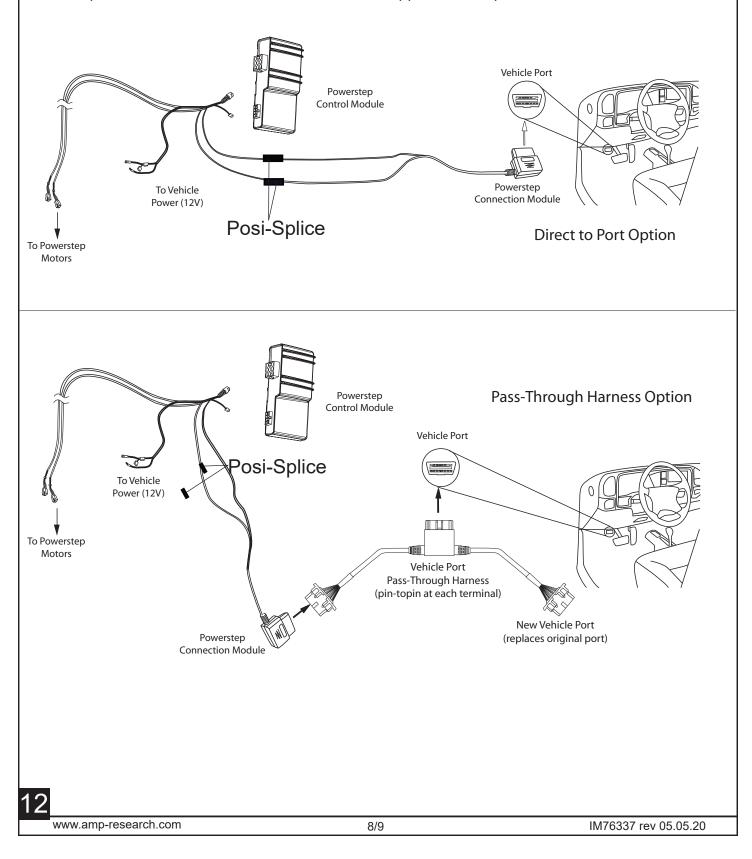
## 10

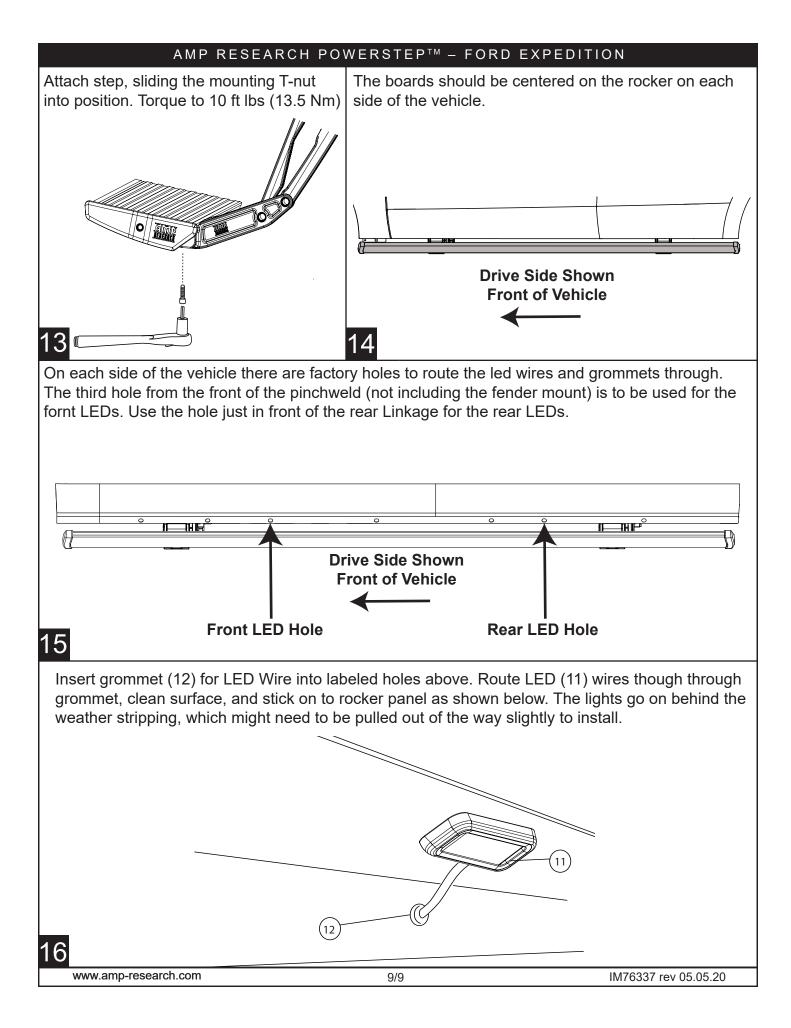
Use supplied Posi-Lock<sup>™</sup> connectors to attach the 2 purple wires of the obd harness to the main harness. Attach matching colors on the harness to the wires on the module. Lastly reinstall Factory OBD port removed in step 11. Plug in module to OBD port on the vehicle.

Reinstall sill plate removed from step 8.

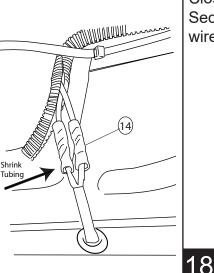


**OBD II install:** Use Supplied Posi Twist connectors to attach the Plug and Play Module to the Harness. Attach matching colors on the harness to the wires on the module. Plug in module to OBD II port on the vehicle. Secure harness with supplied tie wraps.

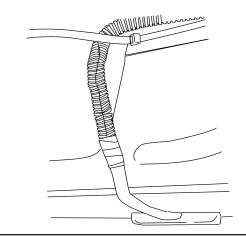




Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Heat the shrink tubing on the connecters to seal wires.

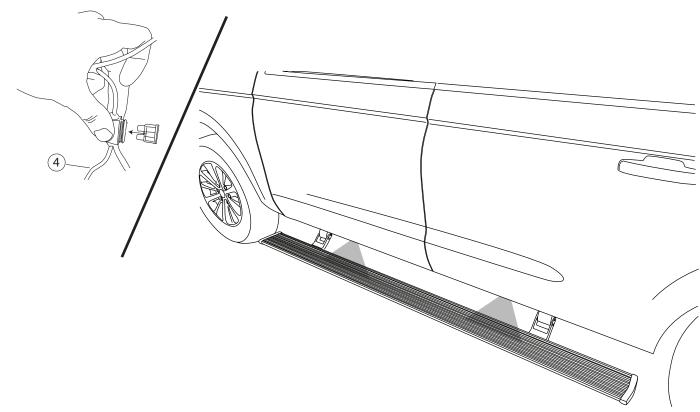


Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties with lamp wires pulled upward to avoid any wire snagging.



### Replace fuse.

17



#### 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 reillumintated by closing and opening any door of vehicle.



AMERICAN DESIGNED, ENGINEERED AND MANUFACTURED.

### Thank you for your recent AMP Research Purchase.

# **REGISTER YOUR PRODUCT TODAY FOR FASTER SERVICE & PRODUCT UPDATES**

Please visit:

www.amp-research.com/productregistration or scan the QR Code



Product Registration Benefits:

• Ensure we have your purchase receipt and product info in our system which is required for warranty

• Faster and easier access to customer service and tech support in the unlikely event you need warranty or product support

Registration helps us keep you up to date on product information and offers

To view other Amp Research products that may be offered for your vehicle. **Please visit: www.amp-research.com**Rev 01.05.21

## **AMP** RESERRCH 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.

### **5-YEAR LIMITED WARRANTY**

AMP RESEARCH warrants this product to be free from defects in material and workmanship for FIVE (5) YEARS FROM DATE OF PURCHASE, 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 replacement of the product itself, or the repair or replacement of any component part thereof, found by the factory to be defective within the time period specified. The decision to repair or replace is wholly within the discretion of the manufacturer.

This warranty specifically excludes labor. 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.

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 that vary from state to state.

FOR WARRANTY ISSUES WITH THIS PRODUCT PLEASE CALL AMP RESEARCH CUSTOMER SERVICE 1-888-983-2204

### WARNING

Be sure to read and precisely follow the provided instructions when installing this product. Failure to do so could place the vehicle occupants in a potentially dangerous situation. After installing or reinstalling, re-check to insure that the product is properly installed.