

## FORD 2015-20 F-150 / 17-20 F250/F350 Retractable Steps

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.

If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.

Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.

Periodically check all hardware for tightness.

### KIT CONTENTS:

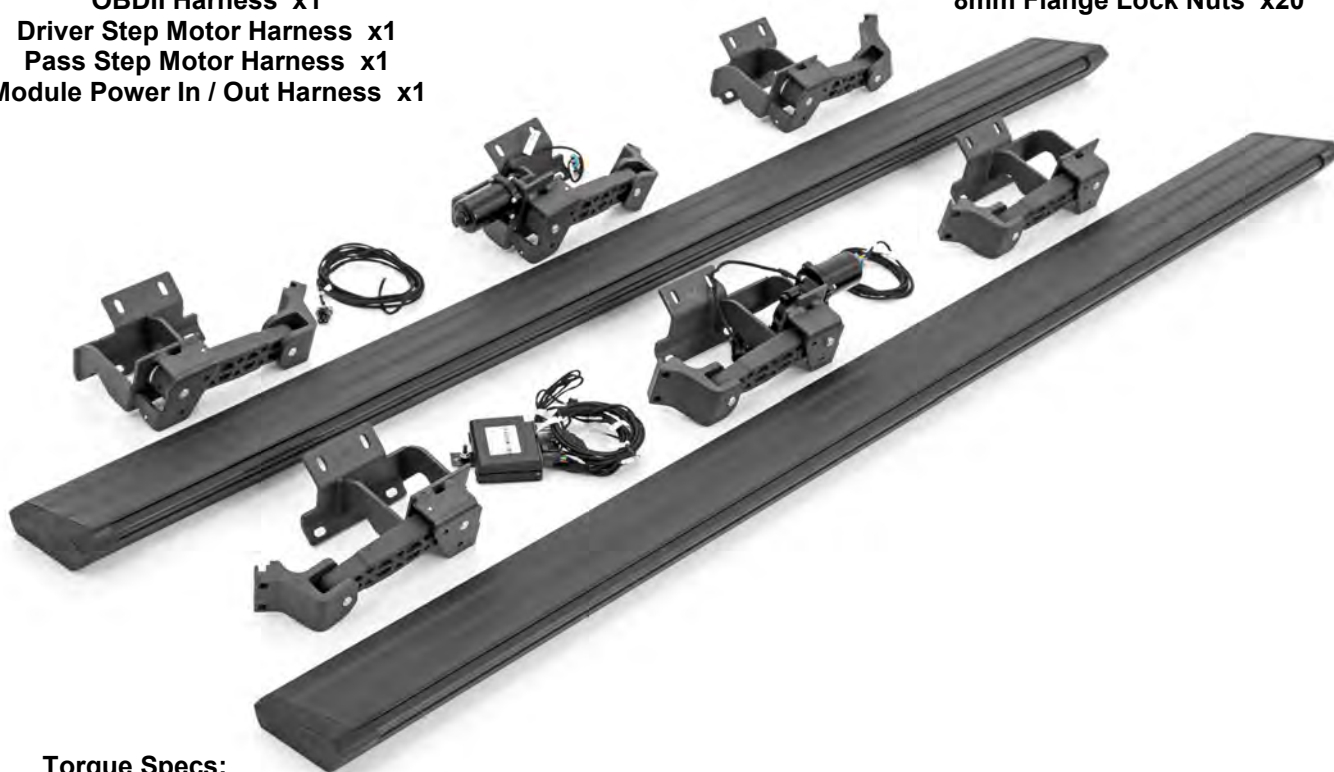
RF, RR Idler Arm Right x2  
 LF, LR Idler Arm Left x2  
 RM, Step Motor Right x1  
 LM, Step Motor Left x1  
 Control Module x1  
 Fused Power Sub Harness x1  
 OBDII Harness x1  
 Driver Step Motor Harness x1  
 Pass Step Motor Harness x1  
 Module Power In / Out Harness x1

### TOOLS NEEDED:

Utility Knife  
 5mm Allen Wrench  
 10mm Wrench or Socket  
 13mm Wrench or Socket

### HARDWARE INCLUDED:

Wire Insert Tool x1  
 Cable Ties x20  
 6mm Lock Washers x12  
 6mm x 20mm Socket Head Bolts x12  
 8mm Lock Washers x20  
 8mm Flat Washers x20  
 8mm Flange Lock Nuts x20

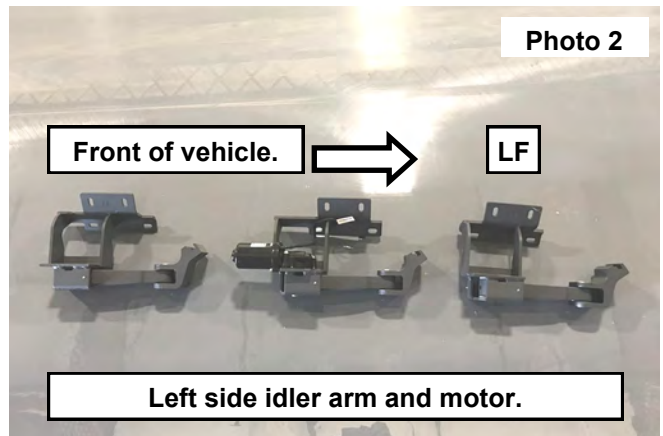
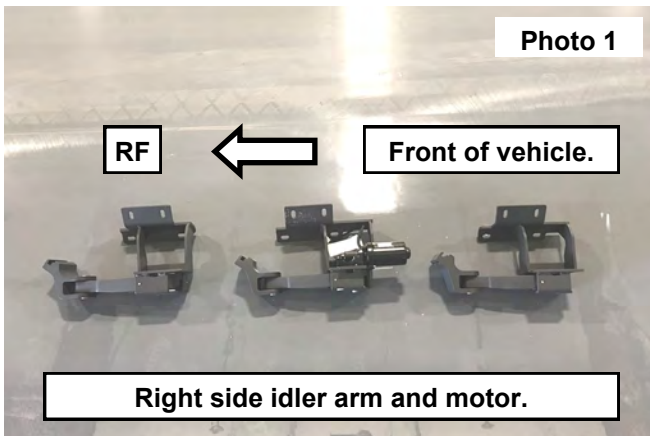


### Torque Specs:

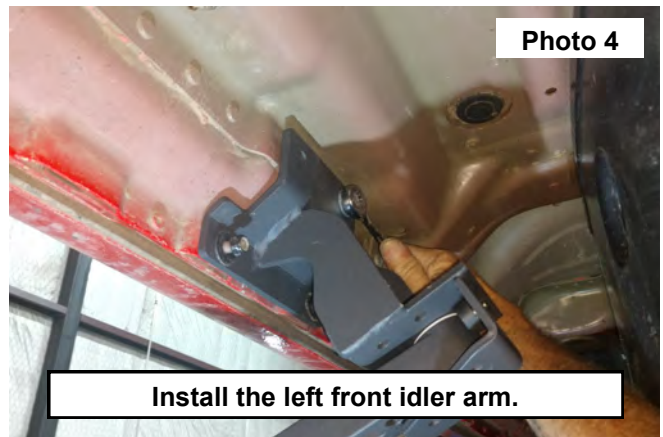
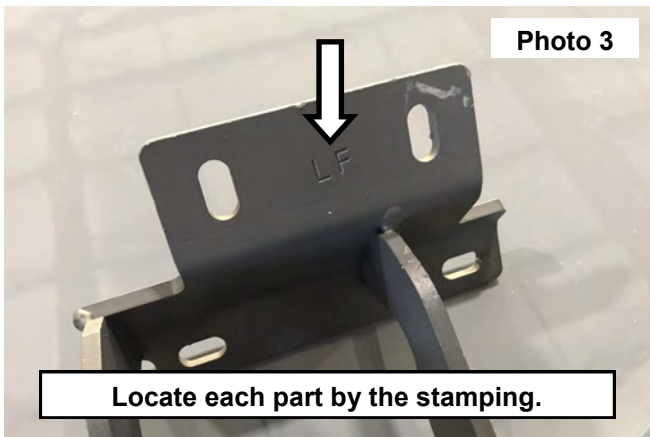
Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16"	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8"	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16"	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2"	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16"	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8"	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4"	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

## INSTALLATION INSTRUCTIONS

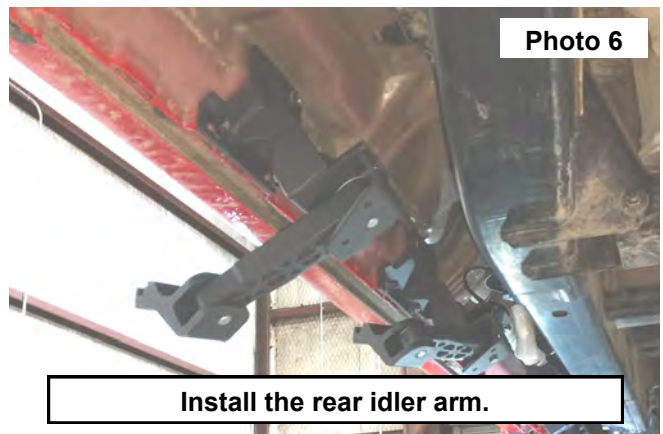
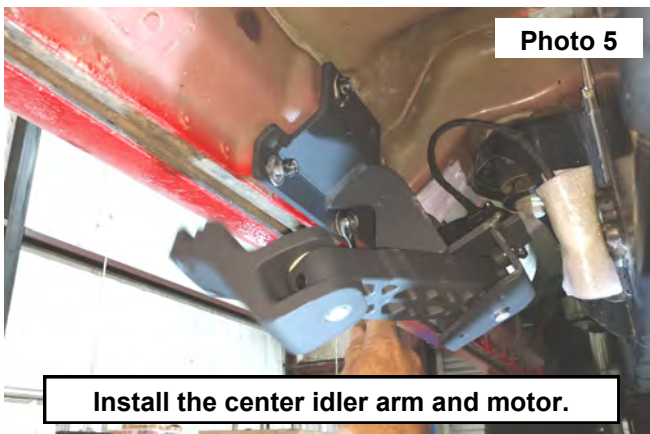
1. Locate the right side step brackets from front to back as labeled **RF**, **RM**, **RR**. Shown with idler arm and motor. **See Photo 1**. Right will be the Passenger Side.
2. Locate the Left side step brackets from front to back as labeled **LF**, **LM**, **LR**. Shown with idler arm and motor. **See Photo 2**. Left will be the Driver Side.



3. Identify each mount by the stamping on the bracket. Shown is the **LF** bracket. **See Photo 3**.
4. Locate the **LF** idler arm and install onto the left front studs using (3) of the supplied 8mm flange lock nuts. Snug mounts to the vehicle using a 13mm wrench. **See Photo 4**.

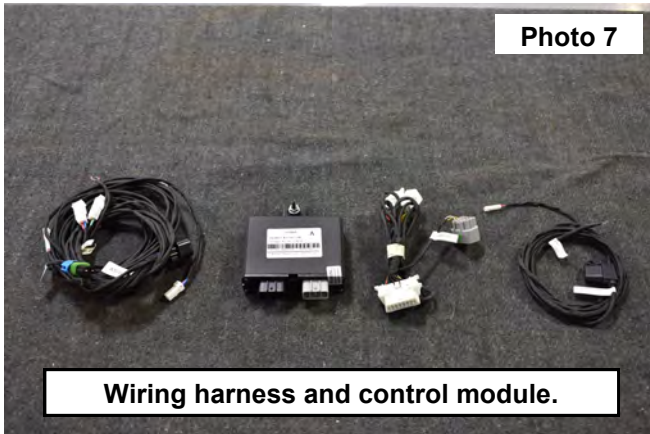


5. Install the **LM** arm and motor bracket onto the center studs using (4) of the supplied 8mm flange lock nuts. Snug mounts to the vehicle using a 13mm wrench. **See Photo 5**.
6. Locate the **LR** idler arm and install onto the rear studs using (3) of the supplied 8mm flange lock nuts. Snug mounts to the vehicle using a 13mm wrench. **See Photo 6**.





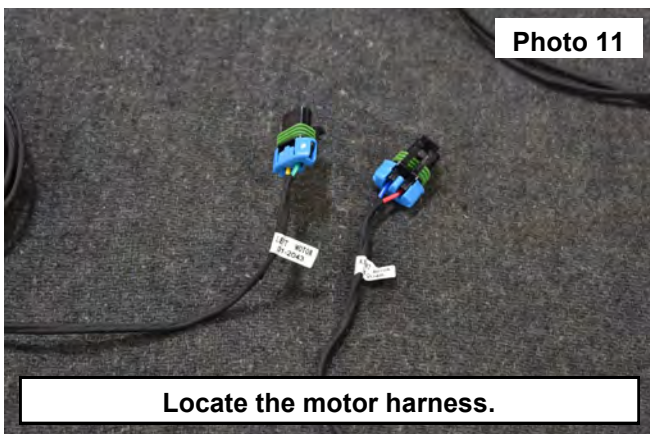
7. Repeat the installation on the opposite side of the vehicle of the **RF, RM, RR** brackets.
8. Locate the wiring harnesses and the control module. **See Photo 7.**
9. On the driver side, remove the door entry scuff plate from the vehicle. **See Photo 8.**



10. Lift the carpet up and locate the rubber gromet in the floor. Then remove the plug and retain for wiring installation. **See Photo 9.**
11. Using a razor knife, cut a X pattern in the rubber gromet. **See Photo 10.**

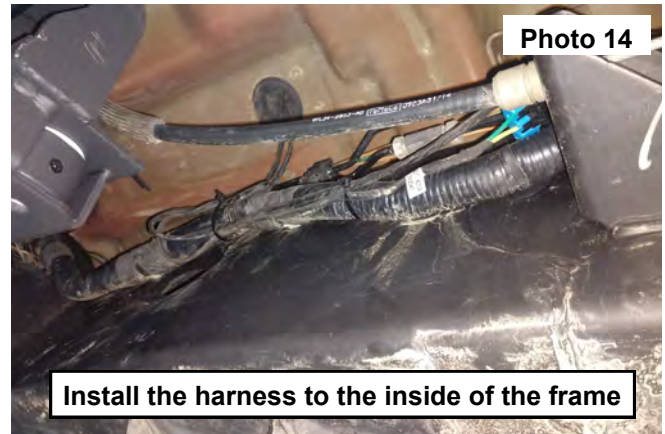


12. Locate the wiring harnesses for the step motors. **See Photo 11.**
13. Install the steps motor harness through the crossmember in the frame to the passengers side of the vehicle. **See Photo 12.**

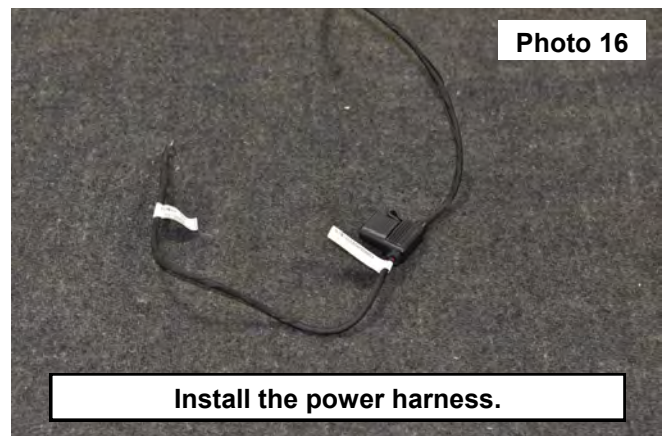
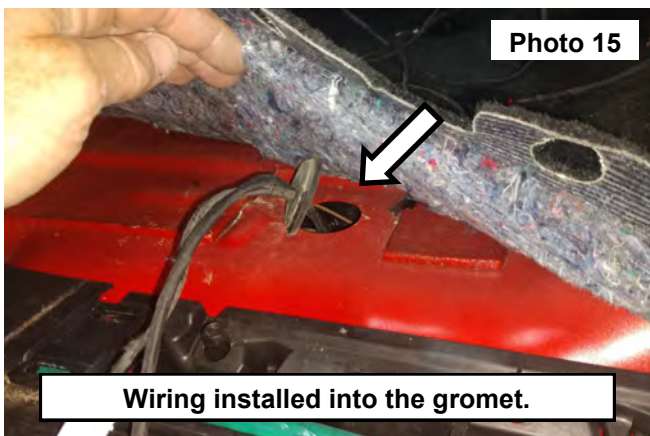




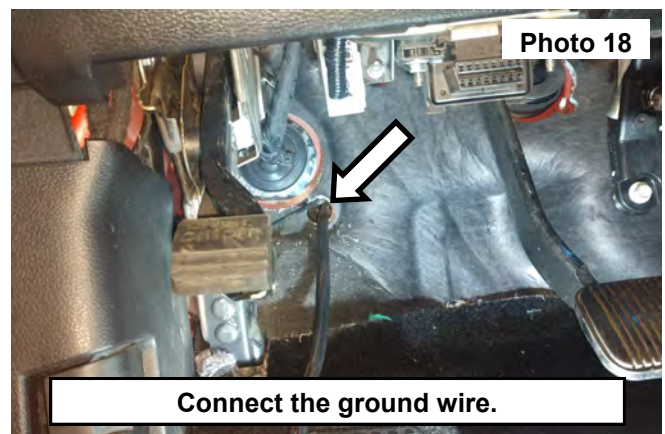
14. Connect the harness to the motor plug . Secure the wires away from any heat or moving parts on the passenger side of the vehicle. **See Photo 13.**
15. Connect the driver side step motor to the wiring harness, insert the wires through the rubber gromet in the floor to the inside of the vehicle. Use the supplied cable ties to secure the harness away from heat and moving parts. **See Photos 14 and 15.**



16. Locate the Fused power wire shown in **Photo 16.**

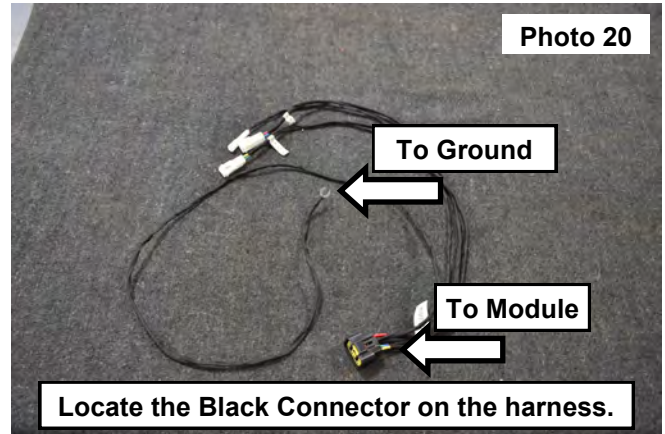
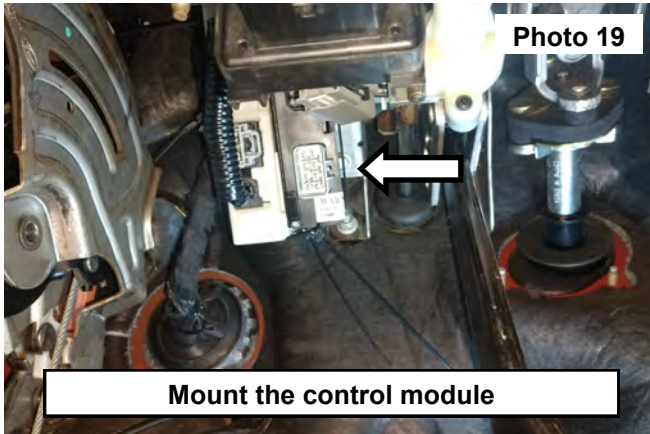


17. Install the fused power wire across the fire wall to the battery. **See Photo 17. Do not connect at this time.**
18. Insert the power wire through the rubber gromet located at the lower fire wall. **See Photo 18.**

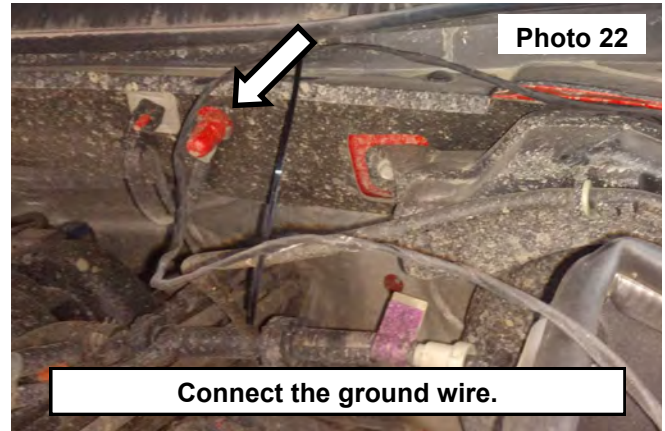
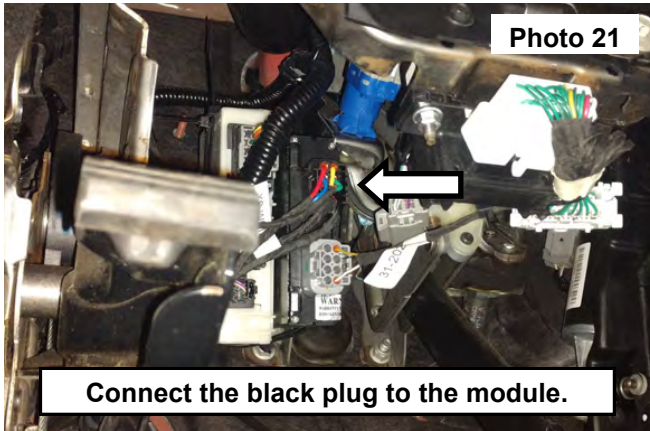




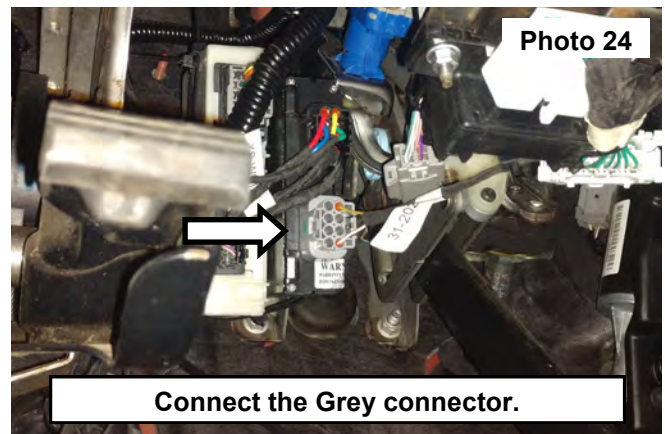
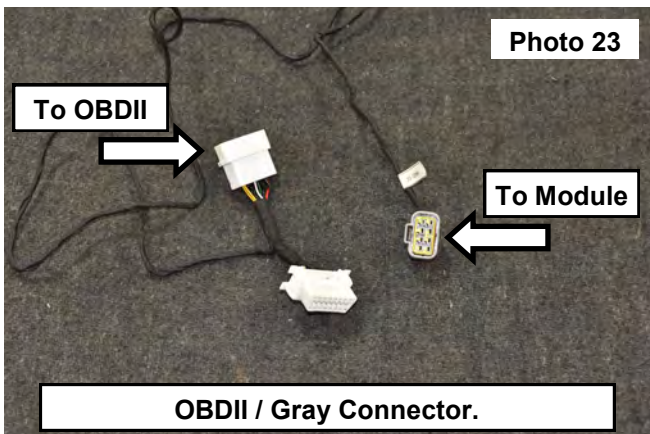
19. Looking under dash on driver side find an area to mount the module without it being into the way of brake and gas pedal and out of harms way. Use the supplied cable ties to mount the control model. **See Photo 19.**
20. Locate the wiring harness shown in **Photo 20.**



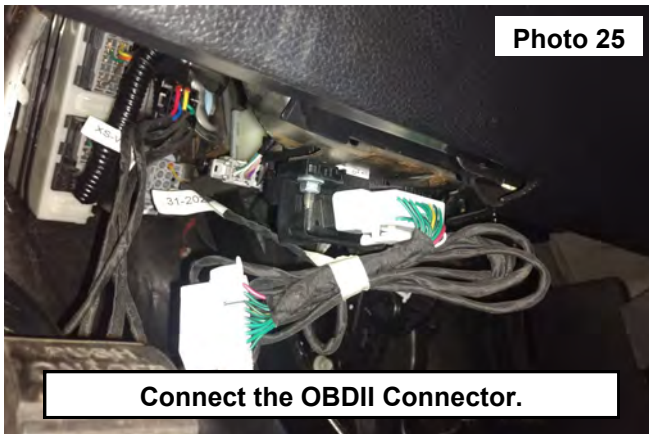
21. Connect the black connector from the harness shown in photo 24 to the step module mounted under the dash. **See Photo 21.**
22. Connect the ground wire to the ground post located on the firewall of the cab. Use a 10mm wrench to loosen, install ground wire and tighten. **See Photo 22.**



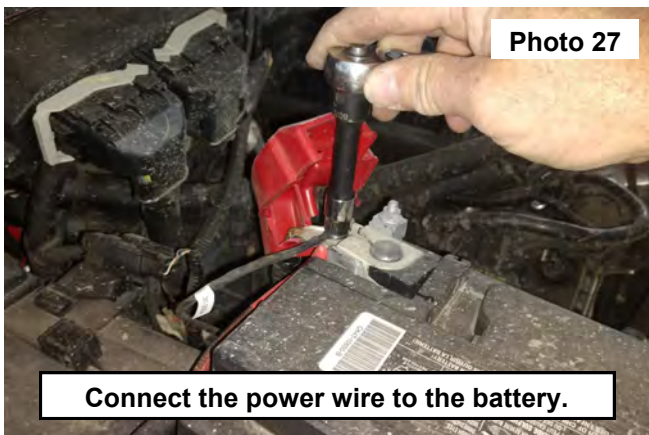
23. Locate the wiring harness shown in **Photo 23.**
24. Connect the Grey connector on the wiring harness shown in photo 23 to the module installed under the dash. **See Photo 24.**



25. Connect the OBDII Connector on the wiring harness shown in photo 23 to the OBDII port located at the bottom of the dash on the drivers side. **See Photo 25.**
26. Connect the black plug harness to the motor harnesses and the power wire. Then install the carpet and scuff plate back into the vehicle. **See Photo 26.**

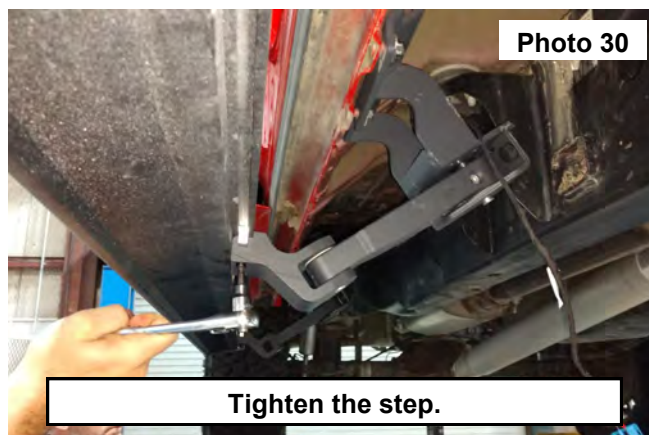
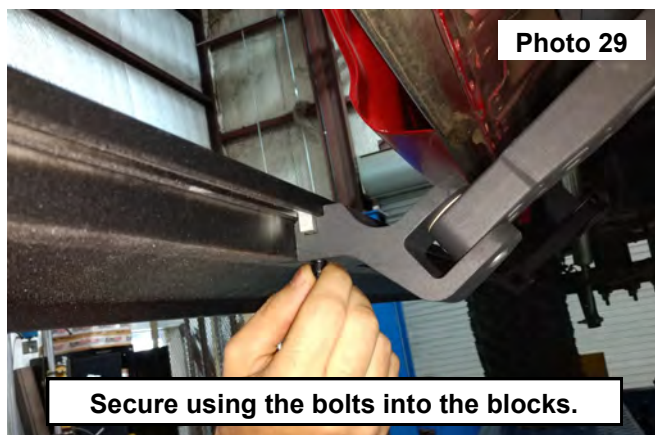


27. Close all doors on the vehicle. Connect the fused power wire to the positive battery post on the terminal of the vehicle using a 10mm socket. **See Photo 27.**
28. Test the motors by opening and closing each door to confirm that each door operates the step motor correctly.
29. Open one door on each side. With the motor and idler arms extended outward, install one step board onto the mounts. Center the step on the vehicle when open. **See Photos 28 and 29.**





30. Slide the mounting block under each of the (3) mounts, then secure the step board using (2) of the supplied socket head bolts in each step mount. **See Photo 29. Make sure the idler arm is against the bump stop on the mounting bracket when installing to the board.**
31. Check that the step is center on the vehicle and snug the hardware using a 5mm allen wrench. **See Photo 30.**



32. Test the step by closing the door. Make sure step does not hit frame and wires are not in harms way.
33. Make sure the step is not in any bind when opening or closing, use shims if needed.
34. Tighten the hinge mount to the step brackets using a 13mm socket. Add shims to get desire look if the step needs to be leveled from the front to the rear of the vehicle.
35. Check all hardware every 500 miles.
36. Double check that all wires are secured with a cable tie away from harms way and away from exhaust heat.

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