

**ELECTRIC SIDE
STEP MANUAL**

F-150



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Tools Needed:



Pincher



Warped Board



Ratchet wrench



Medium Socket Wrench



Insulated Rubber Tape



Cutter Knife

Kit Contents:

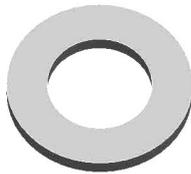
LF, LM, LR X1 RF, RM, RR X1 Idler Arm Bracket Right X2 Idler Arm Bracket Left X2
 Step Motor Right X1 Step Motor Left X1 Control Module X1 Fused Power Sub Harness X1
 OBDII Harness X1 Driver Step Motor Harness X1 Pass Step Motor Harness X1
 Module Power In / Out Harness X1



Hardware Included:



M8 nuts* 18 pcs



M8 washer * 18 pcs



M8 spring washer * 18 pcs



Tie Wires * 20 pcs



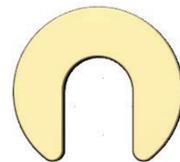
M6*25 socket cap screw * 12 pcs



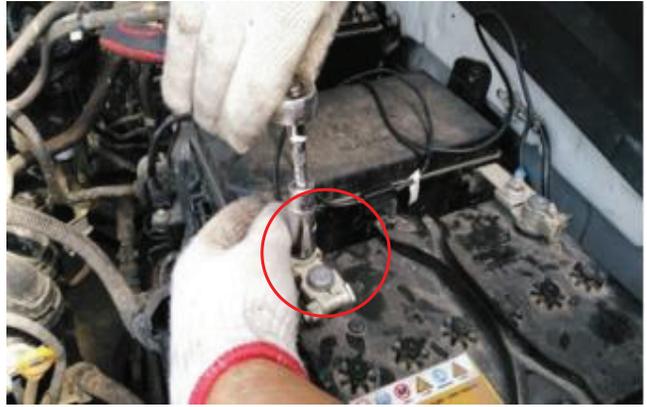
M6 spring washer * 12 pcs



Plastic line * 1 pcs



U shape washer *10 pcs



1, Connect power harness with battery positive. **TIGHTEN BATTERY SCREW!**



2, Locate the wire from the battery across fire wall over to driver side fender well.



3, Remove left front door sill cover. Locate the wire down fender well and along frame to the floor grommet and go inside the cab from the hole under carpet.



4, Locate the negative as above picture and tighten the screw. Use a wrench to loose and tighten.



5, Locate control module under dash on driver side. Use the supplied screw and nut to mount the control module.



6, Remove the door sill cover of right front side of the vehicle.
Drill a 1/2" hole in the center of the plastic plug in the floor of the passenger's side cab floor.



7, Locate right motor wire and black CAN wiring from driver side to passenger side by supplied plastic line. Connect right motor wire with ECU wiring.



8, Locate motor wire from chassis to cabin through the hole under carpet. Keep white connector inside the cabin to avoid water.



9, Plug with vehicle OBDII connector as above picture.

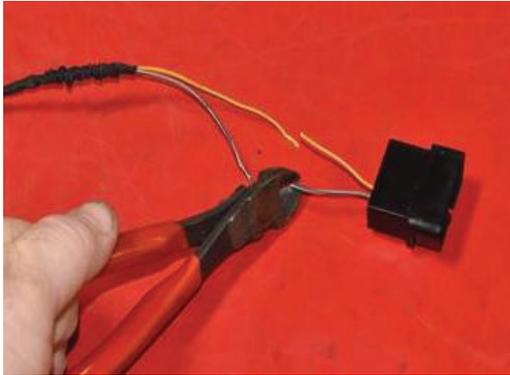


10, Fix all wires along with vehicle wiring by tie wires. Recover door sill cover and carpet.

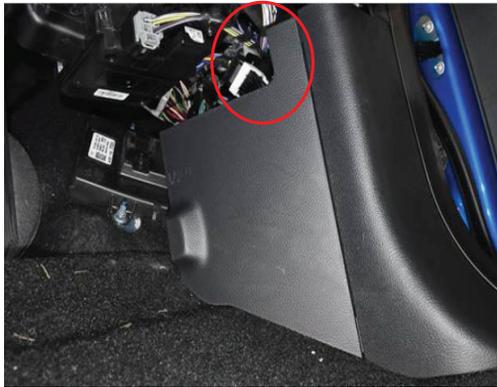


11, Connect plugs with control module. Plug (black color) matches control module joint (black color). Plug (grey color) matches control module joint (grey color).

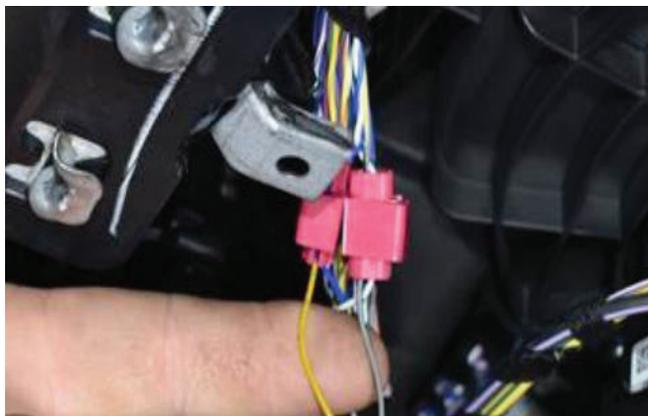
Regarding 2021+ version, OBD connector not work. Please follow below steps to get information:



1, Cut OBD wiring. Take off protection plate under passenger position.



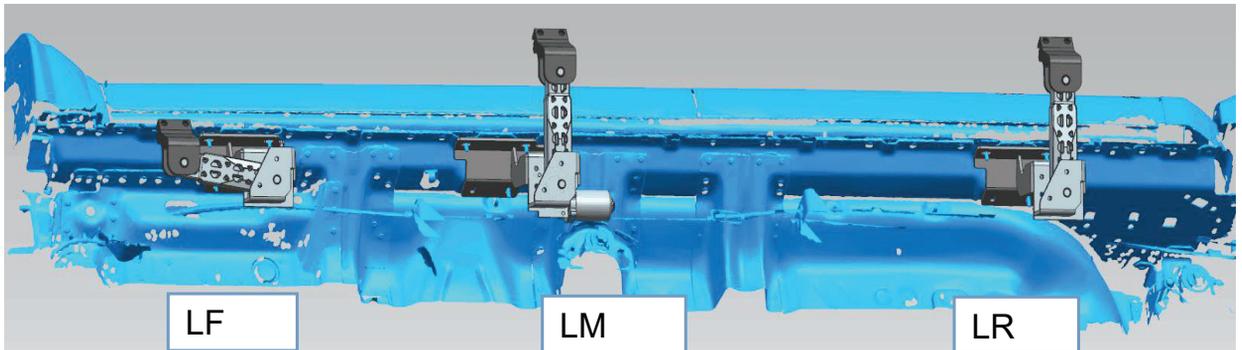
2, locate wiring at left upper position. Find blue and white twisted lines.



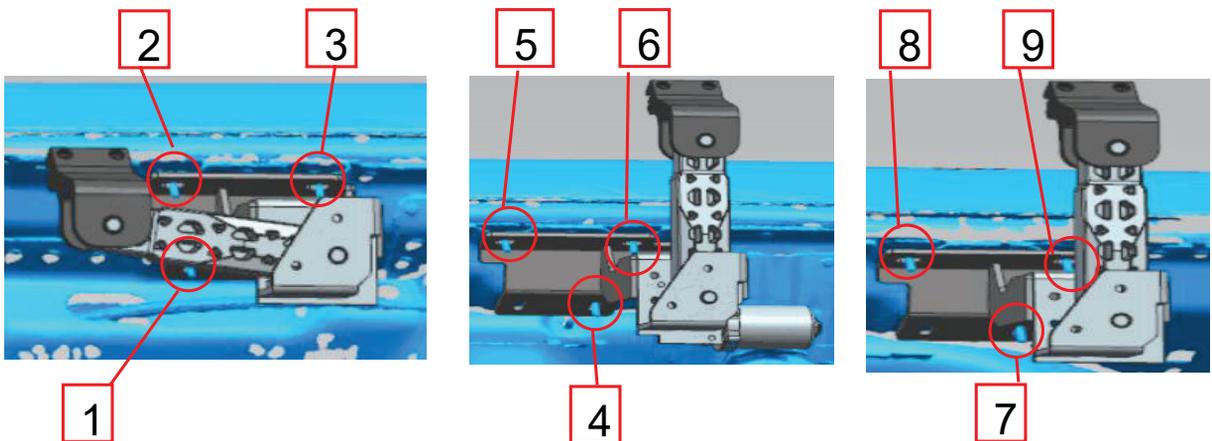
3, use clips to connect them: OBD yellow to blue and OBD white to white, clip them tightly. Recover plate.



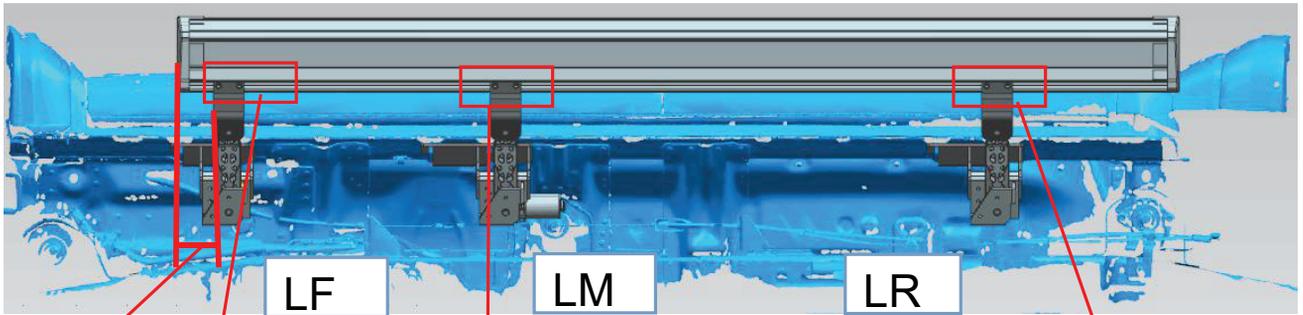
12, Locate left side brackets from front to rear as labeled LF, LM, LR.



13, Locate right side brackets underneath of body as above picture



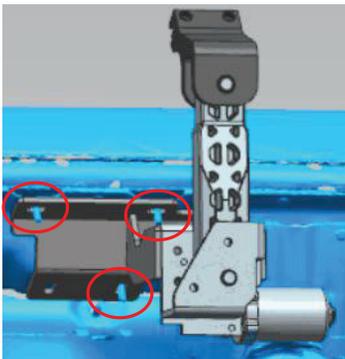
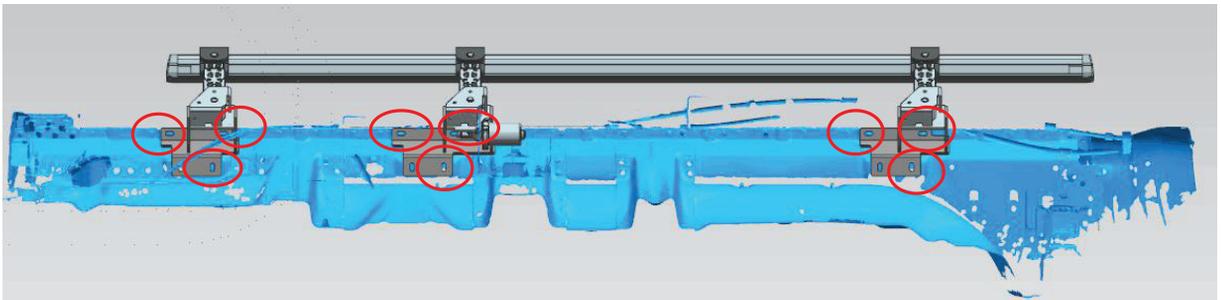
14 ,No. 1.2.3.4.5.6.7.8.9 use M8 nuts and washer to fix. **IMPORTANT: DON'T TIGHTEN** nuts, keep them a little loose.



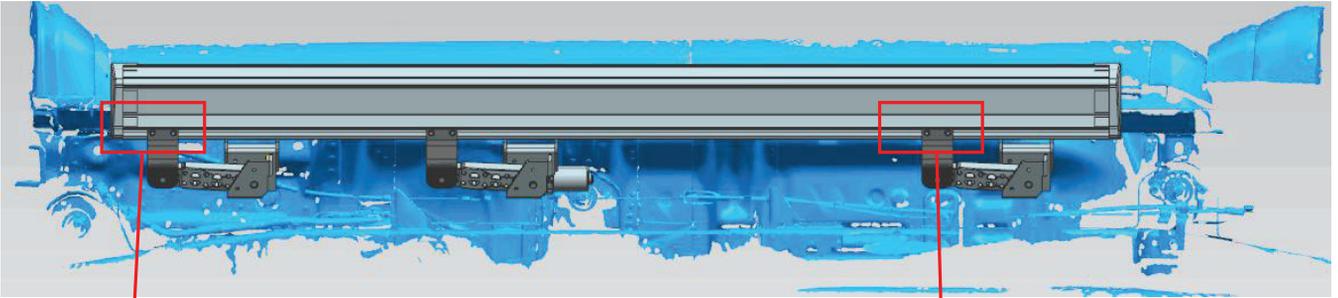
55mm

15, use M6 socket cap screw and M6 spring washer to fix board with brackets, **TIGHTEN THOSE 2 SCREWS.**

16, use M6 socket cap screw and M6 spring washer to fix, **LF & LR NOT TIGHTEN SCREWS**, keep them a little loose so that can adjust the balance.



17, Tighten all screws to fix the brackets on body, each bracket with 3 nuts.



18, Insert fuse, connect ECU and motor, open and close the door. When close, the board will retract. During retracting, push the board to let board retract totally to make gap smaller. Then tighten screws to fix LF and LR brackets with board. Open and close the door to double check if it work well.



19, Install right side in same way as left side

20, Open and close all doors to check if it works well

21, Double check that all wiring are secured with a cable tie and away from exhaust heat. Check all hardware every 500 miles.



Deploy



Retract