



## INSTALLATION INSTRUCTIONS

<b>PART NUMBER</b>	<b>158-8729</b>
<b>PART DESCRIPTION</b>	<b>115V CHARGER UPGRADE KIT TO 6AWG</b>
<b>REV DATE</b>	<b>6/24/2010</b>
<b>MACHINE MODELS</b>	<b>ALL BATTERY OPERATED MACHINES</b>



Basic knowledge of the operation of the lane machine

### TOOLS NEEDED:

Wire Cutters	Med. Flathead Screwdriver	Voltage Meter
Small Flathead Screwdriver	Phillips Screwdriver	11/32" Wrench
#10mm Wrench or Socket	Ruler (KW/B)	Magic Marker (KW/B)
Electric Drill ½" chuck (KW/B)	1" Drill Bit (KW/B)	



### TECHNICAL NOTE

**Please thoroughly read the instructions prior to performing the installation of this assembly.**

**To avoid any potential problems, if at any time during the process you have a question, stop and contact our Tech Support department at the numbers listed below.**

Please visit our growing library of videos to see if these instructions are available!



[www.youtube.com/user/KegelBowling81](http://www.youtube.com/user/KegelBowling81)



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**turned off (E-Stop button in down/off position) before starting this upgrade.**

1. Using the medium flathead screwdriver, unscrew the positive & negative lugs on the end of the battery charger. Remove existing 10AWG wires.
2. Locate the new six foot (6') 6AWG wire cable that has a blue battery disconnect housing on one end & ferrules crimped on the opposite end (w/ the smaller 18AWG wires). Slide the red wires (already crimped into the ferrule) into the POSITIVE lug location on the end of the battery charger. Screw the lug down completely onto the ferrule until VERY tight. Pull on the wire to make sure connection is secure.
3. Slide the black wires (already crimped into the ferrule) into the NEGATIVE lug location on the end of the battery charger. Screw the lug completely down onto the ferrule until VERY tight. Pull on the wire to make sure connection is secure.
4. Plug the charger into the power source, and check voltage at the battery disconnect housing to assure proper operation.
5. Lay the machine down into the operating position.
6. Using the Phillips screwdriver, remove all of the screws that secure the black molded guard to the left side (7-pin side) of the machine. Pull guard off.
7. Next, remove the screws that secure the Center PC/Relay Plate in the Electrical Compartment and move out of the way to access the batteries.
8. Using the 10mm wrench or socket, loosen & remove the bolts that secure the red & black ring terminals to the batteries (outside locations), leaving the fuse link secured. Using the wire cutters, cut the ring terminal off the two wires and remove the wires from the harness all the way back to the battery disconnect housing (blue plug) in the Duster Compartment. Save the battery bolts and the red & black terminal covers as they will be installed on the new wire assy.
9. Inside the Duster Compartment, remove Recovery Tank & set aside. Remove the two 8-32 x screws that mounts the battery disconnect housing (blue plug) to the mounting angle on the side plate using the Phillips screwdriver and 11/32" wrench.



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**\*\*\*NOTE: STEP #10 IS TO BE COMPLETED ONLY UPGRADING A  
MODEL B KUSTODIAN WALKER\*\*\***

10. Using a magic marker and ruler, mark a location on the right side of the Tank & Vacuum Wall that is 5" up from the floor plate and 2" in from the side plate, directly behind and slightly below the battery disconnect housing mount angle. Using the drill & 1" bit, drill a hole through the wall into the Electrical Compartment. It is VERY IMPORTANT that the hole is drilled in the correct dimensions to prevent the bit from hitting the Buffer Motor and /or wiring inside the Electrical Compartment. Deburr the hole on both sides to remove any sharp burrs caused by drilling
11. Install the rubber grommet included in the upgrade kit in the hole in the Tank & Vacuum Wall.
12. Mount the battery disconnect housing (blue plug) of the new (40") wire assy onto the mounting angle using the two 8-32 screws removed in step #8. Run the wire assy through the grommet and over to the batteries.
13. Slide the red & black terminal covers (removed from old wires in step#8) onto the wires. Mount the red wire ring terminal to the POSITIVE battery terminal on the left battery and then the black wire ring terminal to the NEGATIVE battery terminal on the right battery. Tighten the bolts completely then slide terminal covers into place.
14. Place the Center PC/Relay Plate back into position and secure w/ the mounting screws that were removed in step #7, be careful not to pinch any wires between the plate & the mounting clips.
15. Re-install the black molded guard back onto the left side of the machine using the screws removed during step #6.
16. Put the Recovery Tank back into the machine.
17. Turn the machine on (E-Stop breaker released to the up position). Using the voltage meter, check for voltage at the 'battery disconnect housing' to assure that the wires were installed properly.



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