



INSTALLATION INSTRUCTIONS

PART NUMBER	158-8730
PART DESCRIPTION	220V CHARGER UPGRADE KIT TO 6AWG
REV DATE	6/24/2010
MACHINE MODELS	ALL BATTERY OPERATED MACHINES



Basic knowledge on ALL aspects of the lane machine, including mechanical, electrical and operating software

TOOLS NEEDED:

Wire Cutters

Small Flathead Screwdriver

#10mm Wrench or Socket

Electric Drill ½" chuck (KW/B)

Med. Flathead Screwdriver

Phillips Screwdriver

Ruler (KW/B)

1" Drill Bit (KW/B)

Voltage Meter

11/32" Wrench

Magic Marker (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



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via e-mail at LMC@Kegel.net
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Make sure battery charger is unplugged from the power source and machine is turned off (E-Stop button in down/off position) before starting this upgrade.

unplug the grey housing from the end of the battery charger. Using a small flathead screwdriver, push down on the flat metal retaining prong in the housing and remove the 10AWG wires. Do this on both sides.

1. Locate the new six foot (6') 6AWG wire cable that has a 'blue battery disconnect housing' on one end & terminals crimped on the opposite end (w/ the smaller 18AWG wires). Push the red wires into the POSITIVE housing location & the black wires into the NEGATIVE housing location until the lip on the bottom of the terminals snap into place over the retaining prong. Pull on the wires to make sure connections are secure.
2. Plug the grey housing back into the battery charger. Plug the charger into the power source, and check voltage at the battery disconnect housing to assure proper operation.
3. Lay the machine down into the operating position.
4. 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.
5. 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.
6. 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.
7. 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 #9 IS TO BE COMPLETED ONLY UPGRADING A
MODEL B KUSTODIAN WALKER*****

8. 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
9. Install the rubber grommet included in the upgrade kit in the hole in the Tank & Vacuum Wall.
10. 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.
11. 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.
12. Place the Center PC/Relay Plate back into position and secure w/ the mounting screws removed in step #7, being careful not to pinch any wires between the plate & the mounting clips.
13. Re-install the black molded guard back onto the left side of the machine using the screws removed during step #6.
14. Put the Recovery Tank back into the machine.
15. 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 proper wire installation/connection at the batteries.



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