



INSTALLATION INSTRUCTIONS

PART NUMBER	158-8672
PART DESCRIPTION	LED LIGHT UPGRADE
REV DATE	3/13/2013
MACHINE MODELS	ION / KW / KPLUS



Basic knowledge of the Lane machine including mechanical and electrical

TOOLS NEEDED:

Wire Strippers
Screwdriver
Wire Nippers / Dykes

Phillips Screwdriver
¼" Wrench

Small Flathead
7/16" Wrench

PARTS NEEDED:

(1) 158-8672A LED Light Assy
(1) 158-6455 Light Switch Plate
(1) 153-2203 10-32 x 3/8" MS
(2) 153-2216A 4-40 x 7/8" MS
(10) 153-1047 4" Wire Tie

(1) LED Light Harness Assy
(1) 153-1203 Microswitch w/ Roller
(1) 153-2604 10-32 x ½" MS
(2) 153-2231 4-40 Locknut
(1) 153-2510 Nylon Washer



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

KEGEL TECH SUPPORT:
Within USA - 1-800-280-2695
Outside USA - +1 863-734-0200
via e-mail at LMC@Kegel.net
website www.kegel.net



1. With the lane machine setting down in the operating position, remove the 10-pin side guard.
2. Remove the 4 phillips screws that mount the Touchscreen to the frame. There will be 2 on the 10-pin side panel and 2 located on the rear panel. Move the Touchscreen up and out of the way.
3. Remove the empty cleaner tank from the rear wall by removing the 2 mounting bolts. Use the supplied wire ties to neatly secure the LED Light Assembly to the LDS sensor cable and cleaner tube. Before tightening wire ties, have the LEDs facing the conditioner and cleaner tanks as shown below. DO NOT over-tighten the wire ties or damage to the LED light could occur.



4. Re-install the cleaner supply tank assembly.
5. Locate the yellow wire harness assembly in the kit and plug it into the LED light. Run the longer yellow wires along the top of the cleaner tank and over the cleaner pump. Run the shorter yellow and brown wires along the LDS sensor cable, over the conditioner tank and out through the large grommet in the frame. Neatly secure the wires using 4" wire ties.
6. Remove the splash guard latch from the block that is mounted to the side of the machine. Locate the Light Switch Plate from the install kit and fasten this plate to the block assembly as show in the figure 2. Use the 3/8 length machine screw for the top and use the 1/2" screw for the bottom to attach.

7. Remove the micro-switch from the kit and push the connectors from the long yellow wire onto the micro-switch. You will slide either connector (does not matter which) onto the terminal marked COM and NC (Normally Closed) Show in figure 3.
8. Fasten the micro-switch to the switch plate using the 4-40 x 7/8" MS & 4-40 Locknuts. Tighten securely, but do not over-tighten or the micro-switch as the housing could crack.
9. Locate the white fiber washer from the kit and install the splash guard latch onto the block with the nylon washer between the block and the latch assembly.

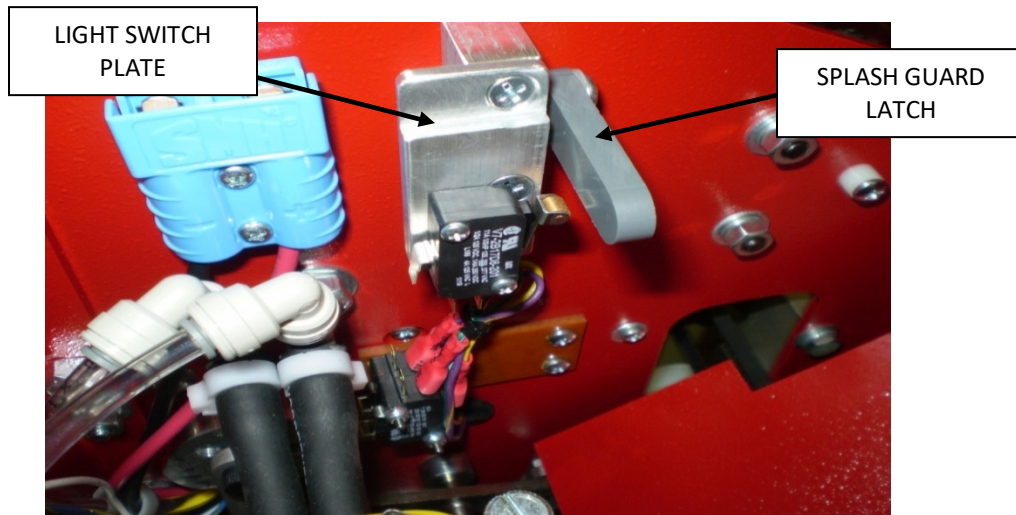


FIGURE 2

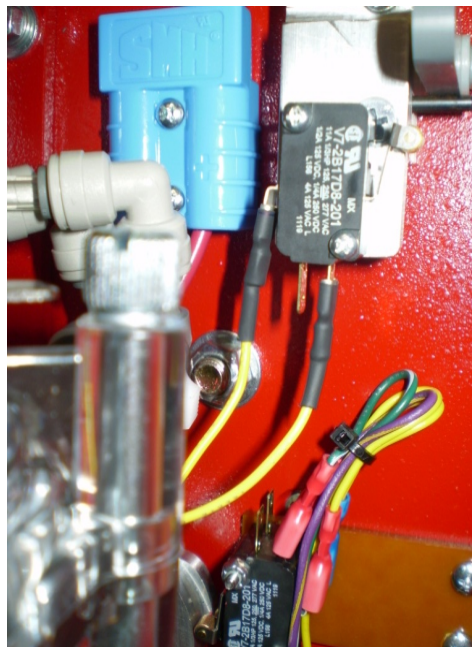


FIGURE 3

10. Strip 3/8" of insulation off both the yellow and brown wires on the right side of the machine.
11. With a small straight blade screwdriver, install the stripped portion of yellow wire into the bottom blue wago block on the left side of the wago assy. Install the stripped portion of the brown wire into the bottom orange wago on the left side of the wago assy. Lightly pull on both wires to make sure they are properly secured. Shown in Figure 4.

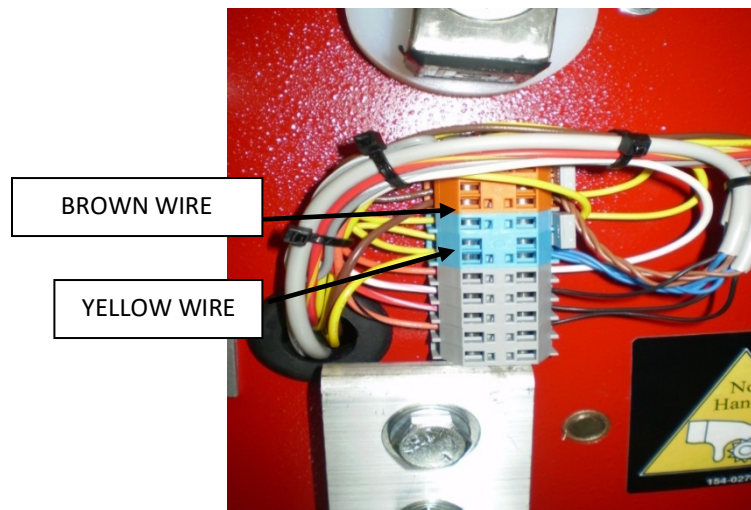


FIGURE 4

12. Reinstall the Touchscreen assembly and the 10-pin side cover.
13. Power up the lane machine and check the function of the light. It may be necessary to adjust the switch.