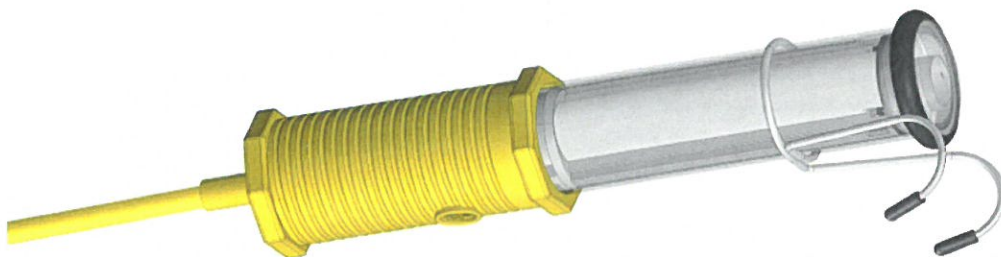


# Installation Instructions For Catalog No. HBL16LEDR 120 Volt **LED** Head Kit



## TOOLS NEEDED

1. Phillips Screwdriver
2. Side Cutters
3. Pliers
4. Wire Strippers
5. Hand Crimpers
6. Tape Measure
7. OHM Meter

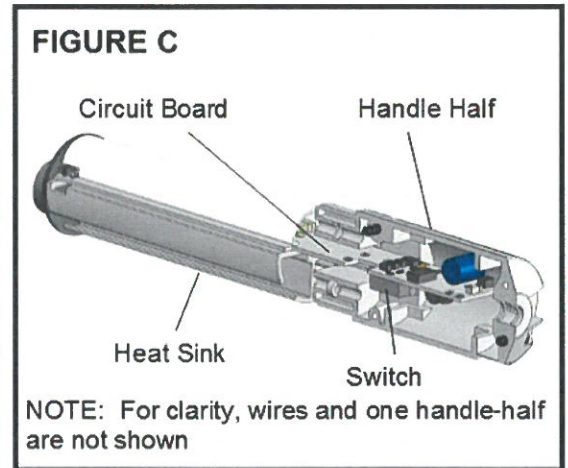
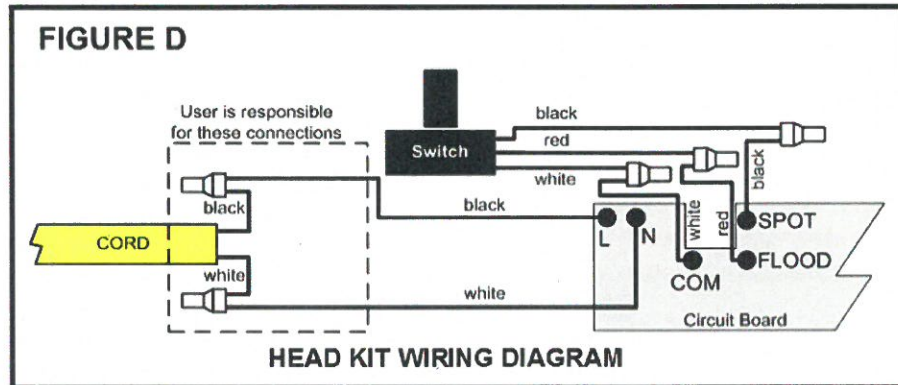
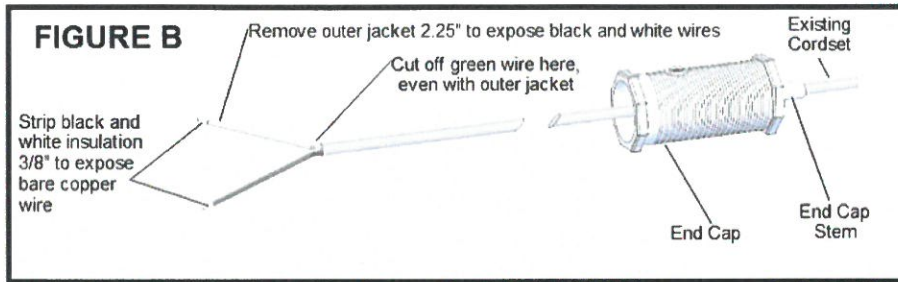
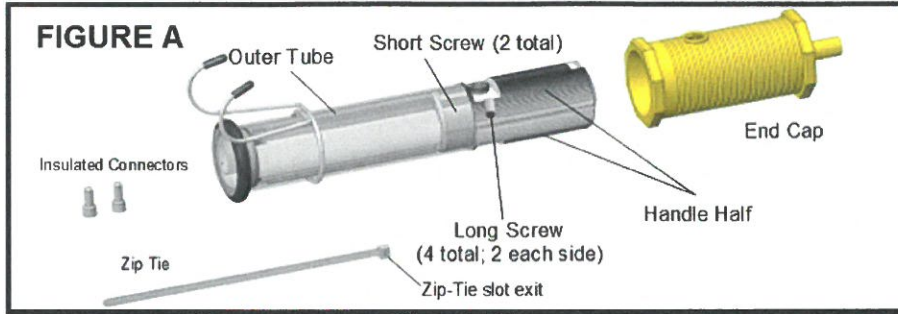
## IMPORTANT!

When attaching a new LED head kit, make sure there is **NO** ballast in line. **Do not** install a LED head kit on reel or cordset that has a ballast. You **MUST** remove ballast and connect color coded wires together with connectors.

## UNPLUG FIXTURE FROM ELECTRICITY BEFORE STARTING THIS PROCEDURE

1. Remove kit assembly from plastic bag and perform the following steps in preparation for the installation (see fig. A).
  - A. Remove the black endcap from kit
  - B. Remove the two short screws that hold the tube in place on the lamp handle. Gently pull the outer tube straight off of the lamp handle.
  - C. The parts (zip-tie and insulated connectors) are located inside plastic bag.
2. The following steps will insure that the cordset/reel, onto which this head kit is being mounted, is working and/or usable.
  - A. **UNPLUG CORDSET/REEL FROM POWER SOURCE!!**
  - B. If installing to a reel, be sure the reel operates smoothly and the latching mechanism locks. If the latching mechanism does not lock, do not rebuild the head kit, contact the factory to repair the reel.
  - C. Inspect the entire length of the cord of the cordset/reel for damage. If the cord is damaged, do not rebuild the headkit contact the factory for needed repair.
  - D. Wipe down cordset/reel using a mild degreaser and a clean rag.
  - E. **After disconnecting the cordset/reel from the power source**, cut the old lighthouse off of the cord as close to the lighthouse as possible.
  - F. Pick up the endcap, from the new kit, and insert the cord through the stem (see fig. B) until it extends approximately 6" out of the handle. If the cord will not slide through the endcap, lubricate it with a drop of liquid soap.
  - G. Strip the outer jacket 2.25" from the end of the cord (see fig. B).
  - H. Strip the end of the black and white wires 3/8" to expose the bare copper wire. If cord has 3 wires, cut green wire at outer insulation of cord. (see fig. B).
  - I. With an OHM meter, check to be sure you have electrical continuity from plug blades to the now exposed wires.
  - J. Remove the four (4) long screws (two on each side) that hold the lamp handle together. Now pull handle apart.
  - K. Connect black wire from cord to black wire labeled "L" from circuit board (see fig. D).
  - L. Connect white wire from cord to white wire labeled "N" from circuit board (see fig. D).
  - M. Attach the zip-tie strain relief around the outer jacket about 1/4" away from the end of the outer jacket. Cut off extra zip-tie at zip-tie slot exit.
3. Organize the wires in the large cavity inside the lamp handle.
4. Orient the Circuit-Board/Heatsink subassembly with respect to the handle half with the switch according to fig. C.
5. Now put the two halves back together and insert the four (4) long screws into the appropriate holes.
6. Slide the outer tube onto the handle. Do **NOT** yet insert & tighten outer tube short screws.
7. **TAKE CAUTION IN THIS STEP TO NOT TOUCH ANY WIRES OR THE CIRCUIT BOARD!!** Plug the unit into power. If your unit has a switch, actuate the switch. Insure that the side light and end light (if equipped) cycle on/off. **NOTE:** Side light and end light should NOT be on at the same time.
8. If your unit does not work, take the following steps:
  - A. **UNPLUG CORDSET/REEL FROM POWER SOURCE!!**
  - B. Gently pull the outer tube straight off of the lamp handle.
  - C. Review/repeat the above steps starting from 2J to troubleshoot the problem. If your unit still does not work, call 260-824-3440. **DO NOT CONTINUE WITH INSTALLATION.**
9. Insert the two short outer tube screws and hand-tighten them down (don't tighten too much or you'll strip out the hole).
10. Push up the end cap into its appropriate position. It should cover the two short screws that you just tightened. Insure that the switch button is located directly over the switch.
11. Installation is now complete. Test the light to make sure that it works properly (see step 8). If not, make sure that you've followed all of the directions. If your unit still does not work, call 260-824-3440

# ILLUSTRATIONS



**KEEP THIS MANUAL  
GARDER CE MANUEL**

**FOR REPLACEMENT PARTS OR REPAIRS CONTACT  
GENERAL MANUFACTURING AT 260-824-3440**

Wiring Device-Kellems  
Hubbell Incorporated (Deleware)  
Shelton, CT 06484  
1-800-288-6000  
www.hubbell-wiring.com  
PD2804

