

# BLACK+ DECKER™

## LED UNDER CABINET LIGHTING

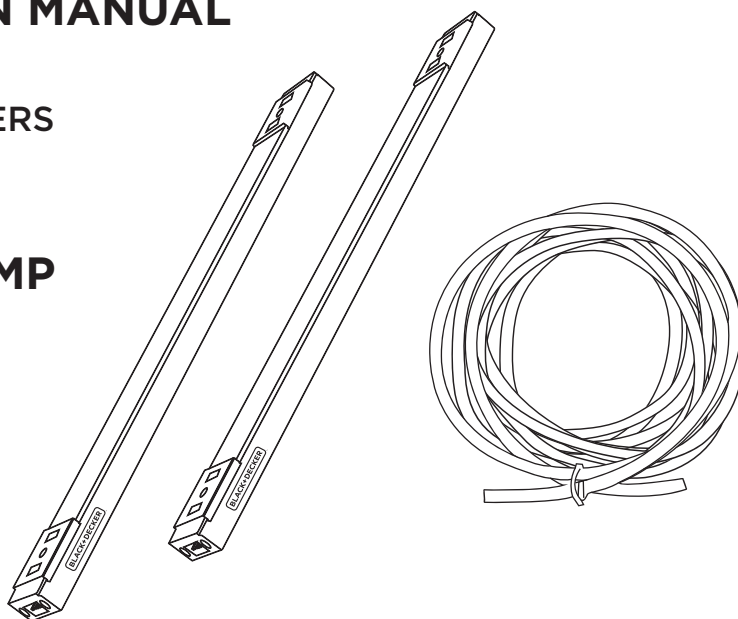
### INSTRUCTION MANUAL

CATALOG NUMBERS

**LEDUC9-1WB**

**LEDUC9-1CB**

**LEDUC-25JUMP**



**Thank you for choosing BLACK+DECKER!**

**PLEASE READ THIS MANUAL BEFORE RETURNING THIS  
PRODUCT FOR ANY REASON.**

If you have a question or experience a problem with your BLACK+DECKER purchase, go to [PureOpticsLED.com/Support](http://PureOpticsLED.com/Support). If you can't find the answer or do not have access to the internet, call 1-855-784-4322 from 8 a.m. to 5 p.m. Monday - Friday to speak with an agent. Please have the catalog number available when you call. To find the catalog number, please refer to product packaging.

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## SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

**⚠ DANGER:** Indicates a imminently hazardous situation, which, if not avoided, will result in death or serious injury and/or property damage.

**⚠ WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.

**⚠ CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.

**NOTICE:** Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

## IMPORTANT SAFEGUARDS

BLACK+DECKER LED Under Cabinet Lights are intended for indoor home and office use and have not been tested for operation at different voltages or use outdoors. Each of these misuses could damage the light and/or create unsafe operating conditions.

## TO REDUCE THE RISK OF INJURY

Before any use, be sure everyone using this light reads and understands all safety instructions and other information contained in this manual.

**⚠ CAUTION:** Failure to comply with the recommendations outlined in this instruction manual will void warranty.

**⚠ WARNING:** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

### SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

**⚠ WARNING:** To reduce the risks associated with impact and hazardous voltage which, if not avoided, could result in death or serious injury and/or property damage.

- Use indoors and in dry locations only; keep all liquids away from the light.
- Do not alter or modify the light, ground plug, or polarized plug blades.
- Do not use light with other adapters or voltage supplies.
- Do not attempt to disassemble light; product is to be serviced by qualified service personnel only—there are no user serviceable parts inside.
- Always power off and unplug light before cleaning.
- Clean exterior only with a dry, clean cloth; do not immerse light in water to clean.
- Do not insert objects into light.
- If any irregularities are detected during use, turn off the switch and unplug the light.

**⚠ WARNING:** To reduce the risks associated with excessive heat and fire which, if not avoided, could result in death or serious injury and/or property damage:

- Avoid usage in high temperature areas.(104°F/40°C)
- Avoid putting light next to heater.
- Lights should not be covered with flammable objects (cloth, paper, etc.)

**⚠ CAUTION:** To reduce the risks associated with environmental contamination which, if not avoided, could result in minor or moderate injury:

- Dispose of task lights in accordance with applicable local government regulations.

**⚠ WARNING**

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

**INTENDED USE:** BLACK+DECKER LED Under Cabinet Lights are intended to provide task lighting indoors. Use in any other application has not been evaluated and may lead to an unsafe condition.

## SYSTEM OVERVIEW

This product is designed and will only work with all three components listed below: LIGHT BARS, WIRE and a POWER SUPPLY. Each are sold separately. Please ensure you have purchased all three system components before starting your project.

## FUNCTIONAL DESCRIPTION

LIGHT BARS		WIRE
<b>A</b> <b>LEDUC9-1WB</b> LED Under Cabinet Light Bar, 9 in. Lumens: 310 Watts: 4 CRI: 81 CCT: 2700K	<b>B</b> <b>LEDUC9-1CB</b> LED Under Cabinet Light Bar, 9 in. Lumens: 320 Watts: 4 CRI: 82 CCT: 4000K	<b>C</b> <b>LEDUC-25JUMP</b> 25' 20AWG Solid Core Wire
<b>POWER SUPPLY</b>		
<h2>For Use with a Class 2 Transformer</h2> <p><b>24W Power Supply will Power up to 6 Lights</b> <b>48W Power Supply will Power up to 12 Lights</b></p>		

## POWERING ON/OFF

**Using the Power Button:** Press the power button located on the light bar once to turn the lights on. To turn off, press the power button again. (See FIG. 1)

**Using the Motion Sensor:** Ensure that your hand is within at least 2" of the motion sensor on the mounted control box. Wave your hand in any direction underneath the control box to turn the power on and/or off. (See FIG. 2)

## USING THE DIMMER

There are ten (10) preset lighting levels that can be adjusted with the dimmer button. To select your lighting level, ensure that the system is already powered on. Hold down the button to change the lighting level and/or switch between the presets. (See FIG. 1)

**NOTE:** This lighting system has a memory function that will use the last selected brightness level the next time it is powered on.

## USING THE TIMER

This lighting system is equipped with an optional auto shutoff timer switch that will power the unit off after three (3) hours. To activate, switch to the "on" position. To disable, switch to the "off" position. (See FIG. 3)

## PUSH CONNECT INSTALLATION

- The wire can be cut to custom lengths and is used to connect the light bar(s) to the control box and link light bars together.
- Inside of the wire are two (2) white wires and one (1) gray wire (See FIG. 4); To expose the solid copper wire, cut approximately 3/8" on each of the three wires.
- After exposing the solid copper wires, connect to the control box or light bar (depending on where you are in the installation process)
- To connect to the control box or light bar, simply push the copper wires into the connection on the control box or light bar. (See FIG. 5)

**NOTE:** The gray wire **must always link to the middle connection**, while the white wires can connect to either of the outer connections.

- If connected properly, the wire should hold securely and not disengage.

**NOTE:** If you need to release a wire from a light bar, remove the end cap to expose the connection (see FIG. 6) and use the included tool to press and release the copper wires from the light.

## APPLICATION OPTIONS

### Tool-Free

1. Wipe down the mounting surface with a clean, lint-free cloth.
2. Peel red backing from the adhesive.
3. With the adhesive side facing the mounting surface, place the piece firmly on its desired location and hold for 5 seconds.

### Screw-In

1. Follow the Tool-Free application steps.
2. Remove light bars from bar mounting clips to expose the screw holes. (See FIG. 7)  
**NOTE:** Skip this step for wire clips as the screw hole is already exposed.
3. Drill 7/32" pilot holes through each exposed screw hole. (See FIG. 8)
4. Secure each mounting clip using the provided mounting screws.

## CONFIGURATION OPTIONS

**Split Configuration:** For layouts where preferred power source is centrally located within cabinets/mounting surfaces. (See FIG. 9)

**Continuous Configuration:** For layouts where preferred power source is on either side of cabinets/mounting surfaces. (See FIG. 10)

## INSTALLATION TIPS

### Optimal Illumination

For cabinets up to 36" in length, one (1) light bar can be used. For cabinets over 36" in length, two (2) light bars should be used.

### Light Bar Placement

Use the spacer provided in your kit to help measure and guide the placement of each light bar.

### Hiding Jumper Wires

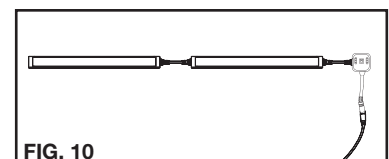
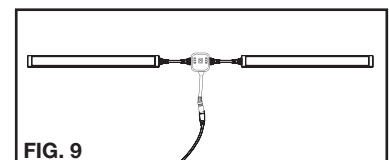
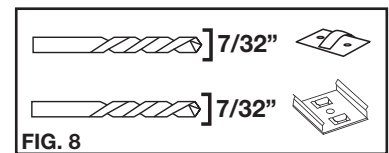
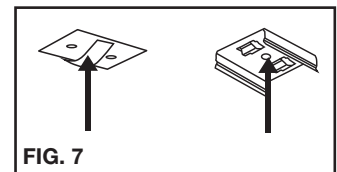
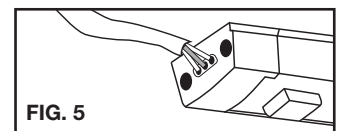
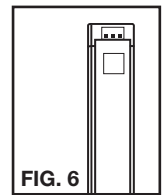
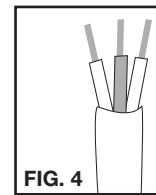
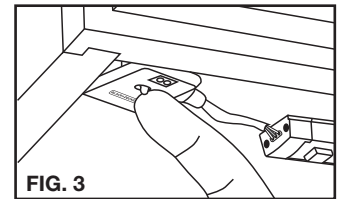
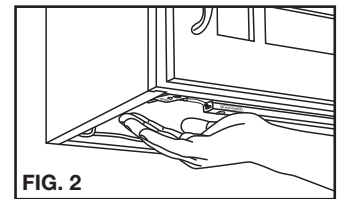
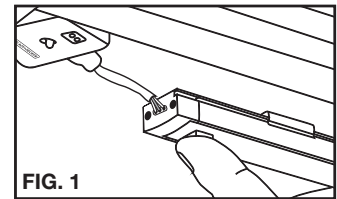
Use the included wire clips to hide all loose and hanging wires: To mount the wire clips, use the Tool-Free or Screw-In application process.

### Running Wires Through Cabinets

**Jumper Wire:** To feed the light bar jumper wire through a cabinet, use a 7/32" drill bit (not included).

**Power Adapter Wire:** To feed the power adapter wire through a cabinet, use a 3/8" drill bit (not included).

**Control Box Wire:** To feed the control box wire through a cabinet, use a 1/2" drill bit (not included).



# STEP-BY-STEP INSTALLATION

For additional information, please visit [PureOpticsLED.com](http://PureOpticsLED.com)

It is important and necessary to follow all local and national electrical codes. If you are unsure of your local codes, please contact your local town or city electrical inspector.

## 1. Consider layout and configuration

- Determine how many lights you'll need to install - each light bar is designed to effectively illuminate cabinets 12"-36".  
**NOTE:** Keep in mind that each power supply option has a maximum amount of light bars it can power.
- Determine the location of your control box with hands-free power control; An ideal location is on the underside of a cabinet in an easily accessible location.
- Determine the location of your power supply (plug-in or direct wire options) and take note of the length of your power cord, which will connect to the control box.  
**NOTE:** There are several installation methods that can allow for flexible placement of your hands-free on/off control box that are illustrated under **CONFIGURATION OPTIONS**.

## 2. Install the control box

- After determining its desired location, follow the Tool-Free application steps (see **FIG. 11**). Before mounting, be sure to leave room for the jumper wires, which will connect on one or both sides of the control box (depending on your configuration).
- Using a 3/8" drill bit, drill holes as needed to connect your control box to the power supply (See **FIG. 12**)  
**PRO TIP:** If connecting the control box to the power supply inside of a cabinet, use a 1/2" drill bit to feed the control box wire into the cabinet.

## 3. Install the light bars

- Slide two (2) bar mounting clips on to each light bar.
- Using your installation spacer as a guide, mount light bars using Tool-Free or Screw-In application process. (See **FIG. 13**)

## 4. Connect the control box to the nearest light bar

- Cut the desired length of wire needed to connect the control box to the nearest light bar.
- Cut and strip the wire to expose approximately 3/8" of the solid copper wire on each of the three wires.
- Push the solid copper wires into their respective connections on the control box.  
**NOTE:** The gray wire must always link to the middle connection, while the white wires can connect to either of the outer connections. (See **FIG. 14**)

## 5. Connect the light bars together

- Repeat the process outlined in step 4 to connect two light bars together. (See **FIG. 15**)
- To hide the jumper wires, route them through the frames of each cabinet by using a 7/32" bit to drill holes as close to the front of the frame as possible. (See **FIG. 16**)

## 6. Hide excess wires

- Use the included wire clips to hide all loose and hanging wires (see **FIG. 17**); To mount the wire clips, use the Tool-Free or Screw-In application process.

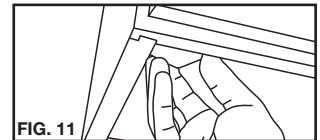


FIG. 11

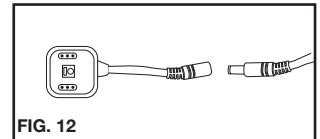


FIG. 12



FIG. 13

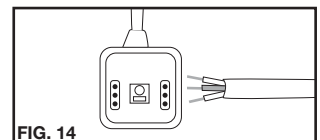


FIG. 14

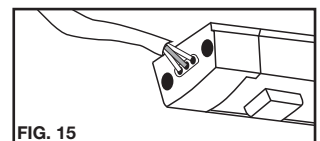


FIG. 15

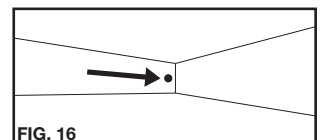


FIG. 16

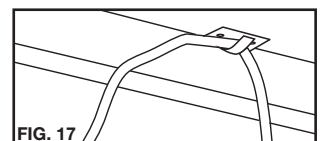


FIG. 17

## THREE-YEAR LIMITED WARRANTY

Amx Inc. warrants to the original retail purchaser that the product purchased is free from defects in material and workmanship, and agrees to repair or replace, at Amx's option, any defective BLACK+DECKER™ branded under cabinet lighting product (3) years from the date of purchase. Warranty is not transferable. Proof of purchase date required. This warranty covers only damage resulting from defects in material or workmanship; it does not cover conditions or malfunctions resulting from normal wear, neglect, abuse, accident, or repairs attempted or made by other than our national repair center or authorized warranty service centers. You are responsible for the costs of shipping the defective product to Amx Inc.

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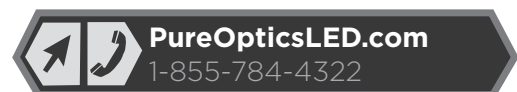
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