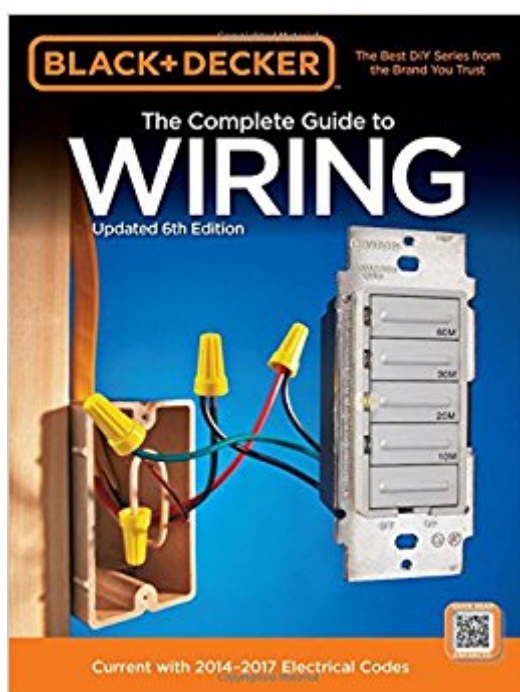


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# Black & Decker The Complete Guide To Wiring, Updated 6th Edition: Current With 2014-2017 Electrical Codes (Black & Decker Complete Guide)



## Synopsis

Vanity lights on the sides of the mirror provide good lighting. Vanity Lights Many bathrooms have a single fixture positioned above the vanity, but a light source in this position casts shadows on the face and makes grooming more difficult. Light fixtures on either side of the mirror is a better arrangement. For a remodel, mark the mirror location, run cable, and position boxes before drywall installation. You can also retrofit by installing new boxes and drawing power from the existing fixture. The light sources should be at eye level; 66" is typical. The size of your mirror and its location on the wall may affect how far apart you can place the sconces, but 36" to 40" apart is a good guideline.

### How to Replace Vanity Lights in a Finished Bathroom

#### Tools & Materials

Drywall saw, drill, combination tool, circuit tester, screwdrivers, hammer, electrical boxes and braces, vanity light fixtures, NM cable, wire connectors, eye protection

**Step 1** Turn off the power at the service panel. Remove the old fixture from the wall, and test to make sure that the power is off. Then remove a strip of drywall from around the old fixture to the first studs beyond the approximate location of the new fixtures. Make the opening large enough that you have room to route cable from the existing fixture to the boxes.

**Step 2** Mark the location for the fixtures, and install new boxes. Install the boxes about 66" above the floor and 18" to 20" from the centerline of the mirror (the mounting base of some fixtures is above or below the bulb, so adjust the height of the bracing accordingly). If the correct location is on or next to a stud, you can attach the box directly to the stud; otherwise you'll need to install blocking or use boxes with adjustable braces (shown).

**Step 3** Open the side knockouts on the electrical box above the vanity. Then drill 5 8" holes in the centers of any studs between the old fixture and the new ones. Run two NM cables from the new boxes for the fixtures to the box above the vanity. Protect the cable with metal protector plates. Secure the cables with cable clamps, leaving 11" of extra cable for making the connection to the new fixtures. Remove sheathing, and strip insulation from the ends of the wires.

**Step 4** Connect the white wires from the new cables to the white wire from the old cable, and connect the black wires from the new cables to the black wire from the old cable. Connect the ground wires. Cover all open boxes, and then replace the drywall, leaving openings for the fixture and the old box. (Cover the old box with a solid junction box cover plate.)

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Install the fixture mounting braces on the boxes. Attach the fixtures by connecting the black circuit wire to the black fixture wire and connecting the white circuit wire to the white fixture wire. Connect the ground wires. Position each fixture over each box, and attach with the mounting screws. Restore power, and test the circuit.

## Book Information

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## Customer Reviews

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Creative Publishing international is a worldwide publisher of how-to books. The company's current retail offering includes over 300 titles on topics covering home improvement, home decorating, sewing, crafting, hunting & fishing, and photography. Over the past 15 years, CPI has developed high-quality photography step-by-step books with nationally recognized brand partners like Black & Decker and Singer.

This is it. I've purchased several DIY wiring books and this one is clearly the best. Specifically I was looking to uncover the mysteries of how to wire a room for lighting and the switches that control that lighting. I wanted the book to have pictures that would show which wires are for what...and why. I wanted to know how three-way switches do their magic (it's the traveler wire), and I wanted to know tricks of the trade about how to put a switch in the middle of a "run" of lighting wires or at the end, and how would I properly tie into existing circuits. This book does all those things, and it has color diagrams and plain talk instructions to help the novice learn what, why, and where. As I said at the start, it's the best I've found...and I'd been looking for awhile. Search is over.

I found B&D Advanced Home Wiring (half the length) better organized and usable, but unfortunately out of date. I repeatedly went back to the older version to clarify things, or get more detail. This new version is annoying, because it covers some things without giving adequate instructions, and in

some cases the instructions aren't great. For instance, using an accordion duct for a bathroom vent. Years ago, I was able to put in a service panel with the older book and a little online research. When I tried to do that with the new book I couldn't. Had to retrace the old way. One really basic thing this book failed to address was how to mechanically fulfill the current code demands of getting all the additional wires with their pigtails into outlet boxes. Saying, "use bigger boxes" isn't sufficient. I used bigger boxes, and adding just one additional line into a bigger box results in nine 6+" wires, plus 3 shorter wires to pigtail=12 wires plus their connectors and the outlet itself. I know you aren't supposed to cram, but even with a bigger box I crammed a lot. [To my way of thinking, the new code is way badly-conceived and will result in much greater fire hazard due to the inevitable cramming.] Maybe the book just tries to cover too much ground, and thoroughness on any particular topic gets compromised.

this book is a good starter book for persons who do not know anything about wiring. the best part of the book is it has lots of color pictures and step by step instructions.

This is a very important book that contains all the updated building codes needed in wiring.. Husband loves it.

Ok, but some pictures of work with three wire plus ground should have stressed that such wire is required by recent code upgrades.

This book has good explanations, and even some diagrams and how-to's for common projects.

Covers a lot of standard applications.

great for a home owner, but always remember to get county to inspected

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