

velleman K8026 3.5A Dimmer with Potentiometer Instruction Manual

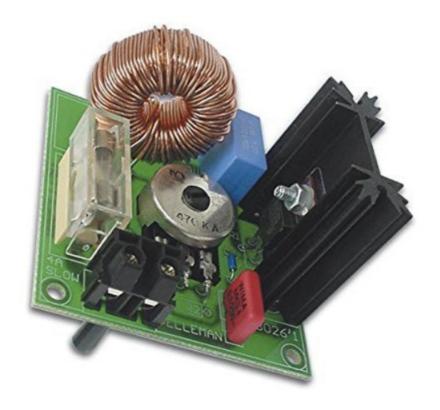
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velleman K8026 3.5A Dimmer with Potentiometer



Due to its small size, this small dimmer easily replaces an existing switch, permitting you to vary the brightness of a light or group of lights. The dimmer may also be used to adjust the speed of a motor, vacuum cleaner, or any other motor with carbon brushes. A mains suppresser is provided eliminating unde-sirable RFI. It is not suitable for halogen lamps.

Specifications

- protected against induction voltage peaks
- Load: 3.5A (750W at 230V and 380W at 110V)
- suppressed according to EN55015
- PCB dimensions: 60 x 60mm / 2.4 x 2.4"



Assembly

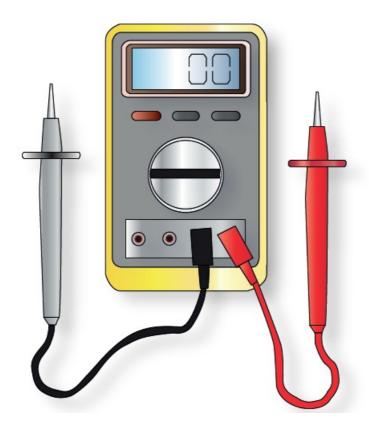
(Skipping this can lead to troubles!)

Ok, so we have your attention. These hints will help you to make this project successful. Read them carefully.

Make sure you have the right tools:



- A good quality soldering iron (25-40W) with a small tip.
- Wipe it often on a wet sponge or cloth, to keep it clean; then apply solder to the tip, to give it a wet look. This is called 'thinning' and will protect the tip, and enables you to make good connections. When solder rolls off the tip, it needs cleaning.
- Thin raisin-core solder. Do not use any flux or grease.
- A diagonal cutter to trim excess wires. To avoid injury when cutting excess leads, hold the lead so they cannot fly towards the eyes.
- Needle nose pliers, for bending leads, or to hold components in place.
- Small blade and Phillips screwdrivers. A basic range is fine.
- For some projects, a basic multi-meter is required, or might be handy.



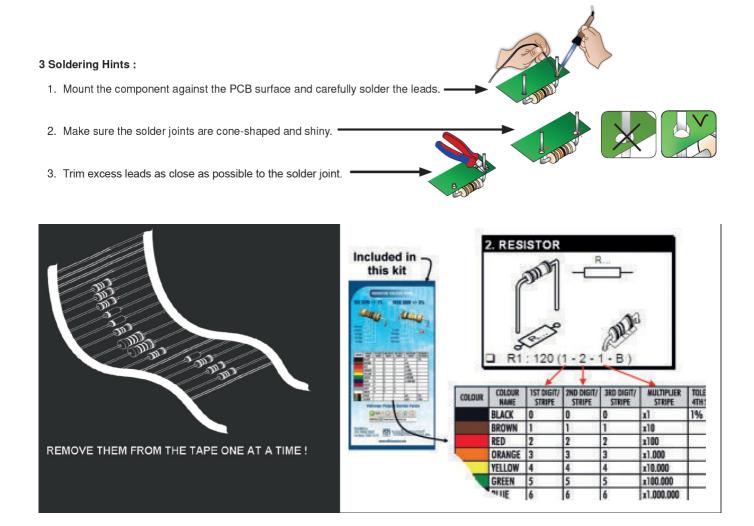
Assembly Hints

- Make sure the skill level matches your experience, to avoid disappointments.
- Follow the instructions carefully. Read and understand the entire step before you perform each operation.
- Perform the assembly in the correct order as stated in this manual.
- Position all parts on the PCB (Printed Circuit Board) as shown on the drawings.
- · Values on the circuit diagram are subject to changes, the values in this assembly guide are correct*.
- Use the check-boxes to mark your progress.
- Please read the included information on safety and customer service.

Soldering Hints

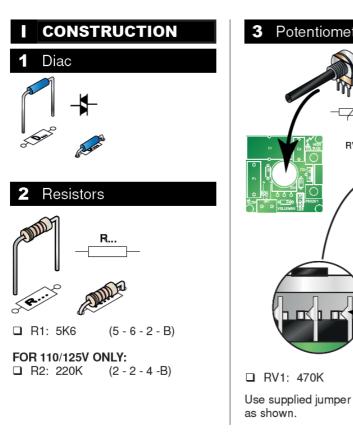
- 1. Mount the component against the PCB surface and carefully solder the leads.
- 2. Make sure the solder joints are cone-shaped and shiny.
- 3. Trim excess leads as close as possible to the solder joint.

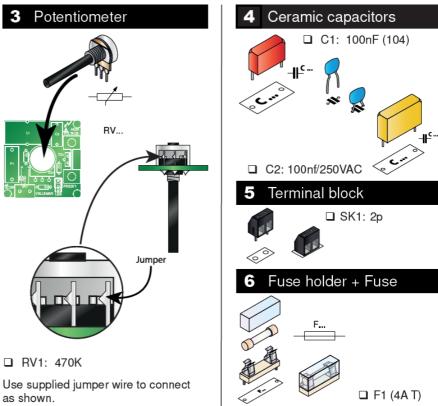
^{*} Typographical inaccuracies excluded. Always look for possible last minute manual updates, indicated as 'NOTE' on a separate leaflet.

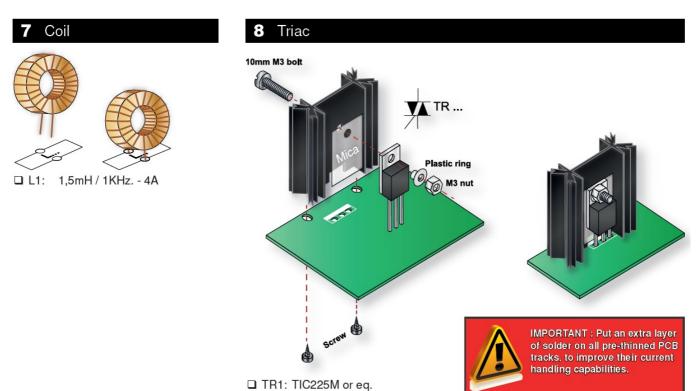


DO NOT BLINDLY FOLLOW THE ORDER OF THE COMPONENTS ONTO THE TAPE. ALWAYS CHECK THEIR VALUE ON THE PARTS LIST!

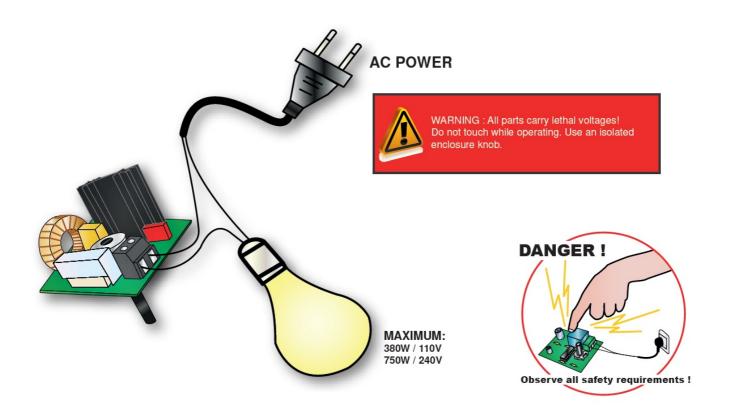
CONSTRUCTION

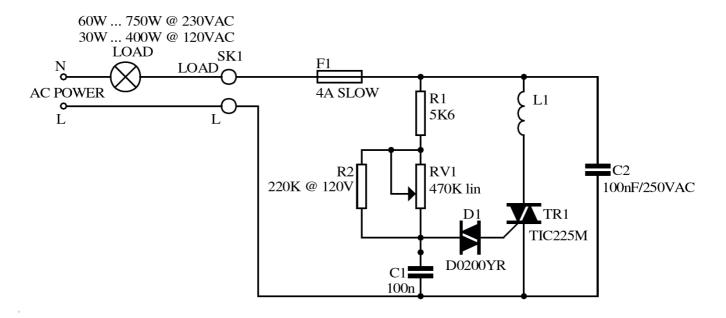


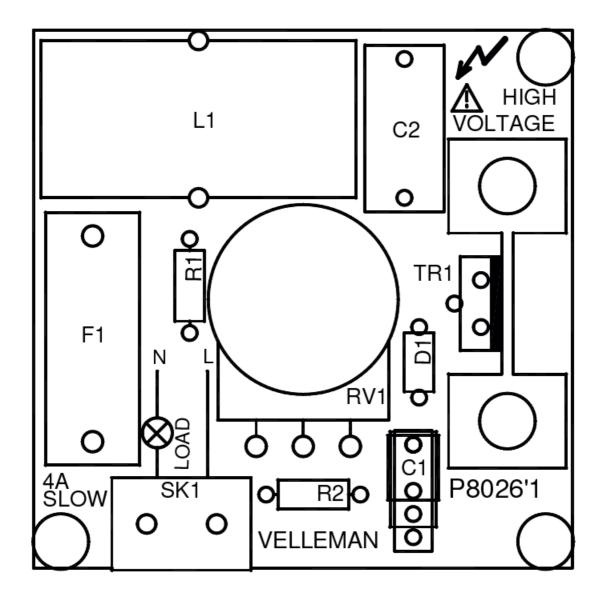




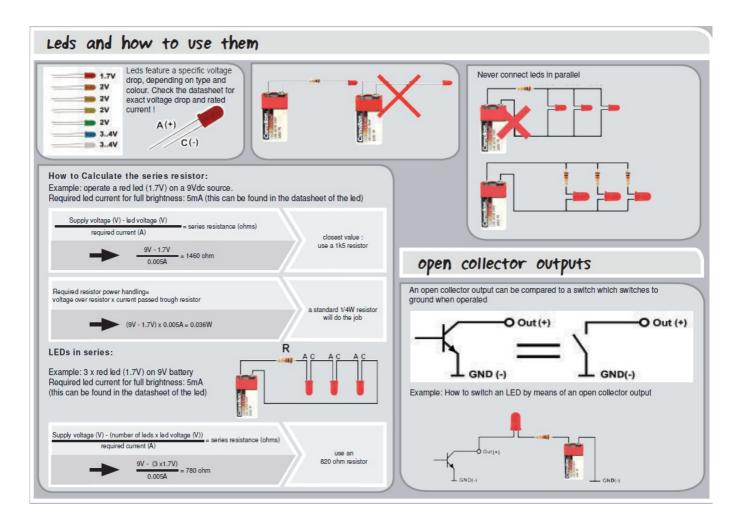
HOOK-UP EXAMPLE







Leds and how to use them



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Documents / Resources



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References

• O Details â€" Own brands â€" Velleman â€" Wholesaler and developer of electronics

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