

TinyCAD wiring diagram How-To

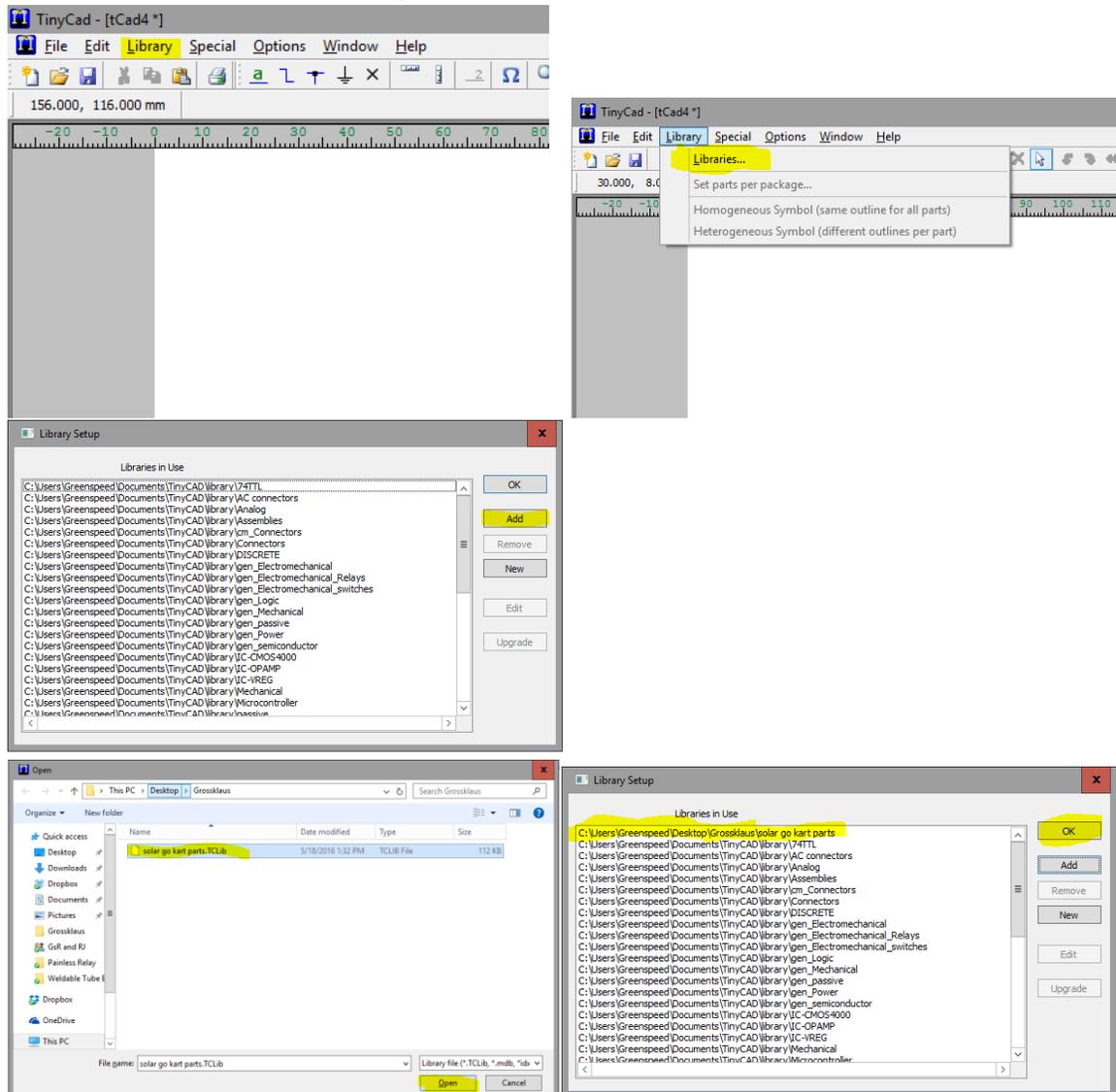
C. Grossklau 5/24/16

1) Download TinyCAD

Google “TinyCAD” and the first couple search results should be links to download the program. Select one of the sites and download TinyCAD.

2) Open TinyCAD and upload the “solar go kart parts.TCLib” library

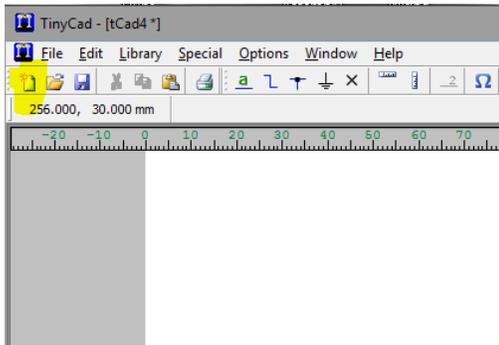
After opening TinyCAD use Open File to access the “solar go kart parts.TCLib” library. The library will be available for download on the Greenspeed website.



Select the library from where ever you saved it.

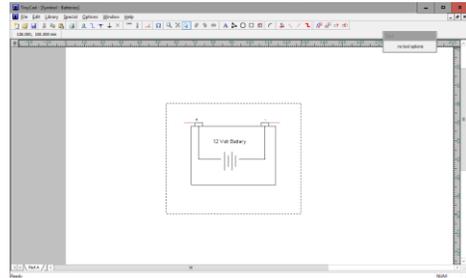
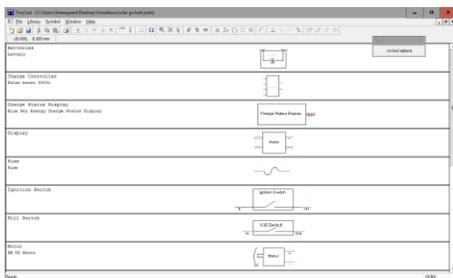
3) Make a new design

Select the “New” icon in the tool bar to create a new design. To add parts from the solar go kart parts library select “Library” in the tool bar and select “solar go kart parts.TCLib”. In there you will find all of the parts necessary to create the wiring diagrams for the solar go kart. Opening the library will open a new window inside of TinyCAD that can be minimized.



4) Using Library parts

To use the parts in the library go in to the library, click on the part you want to use. This will open the part inside of tiny cad in its own window. Using the cursor select all of the pieces of the part by clicking near the part and dragging a highlighting box around the entire part. After the part is highlighted you can copy it by either using the Ctrl C command or by right clicking it and selecting Copy. The part can then be added to your design by going back to your new design window and pasting it into your design.



5) Constructing your design

It is a good idea to copy and paste the major components of the design (Charge Controller, Motor Controller, Batteries, Motor and Solar Panels) into the design first. Set them in a logical orientation so that all of the other components will fit around them and there will be minimal crossing of wires. Next add the other components (switches, relays, ect.).

Pro tip: make your design with pencil and paper first to get a feeling for how it will all fit together.

6) Wiring

To add wires to your diagram select the Wire tool form the tool bar (or hit F2) and click on the labeled wire terminals that are included on the go kart parts. Make sure to minimize wires that cross each other. It makes the diagram very hard to read.

Pro tip: practice using the wiring tool before starting your design. It can be a little frustrating to figure out how to set the desired length of the wires.

