

## RS232 to TTL Kit Assembly Guide

Quick guide to building your TTL - RS232 kit P/N: 4210  
(kit version of P/N: 4202)

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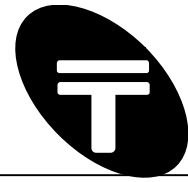
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**Thank you for choosing this Tronisoft product.  
We hope that assembly is as easy as 1, 2, 3!**

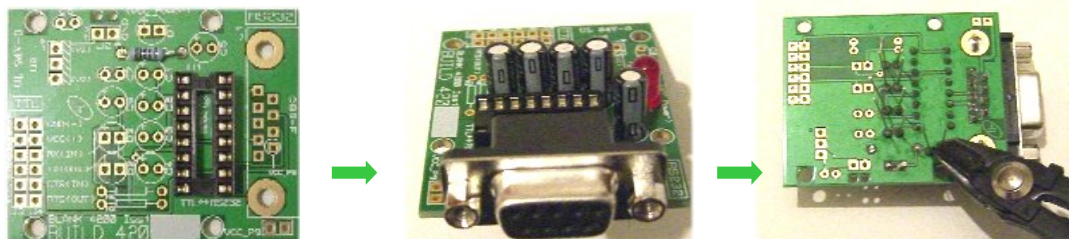
If you are not comfortable with building this kit then please seek assistance from a competent electronics enthusiast or professional.

### 1) Check Parts List

- 1 x 9 way D-type socket
- 1 x MAX232
- 1 x 16pin DIL socket (for MAX232 device)
- 5 x 1uF capacitor
- 1 x 1k resistor (for LED)
- 1 x ultra low current red LED (for power status)
- 1 x 6 way (2.54mm pitch) header
- 1 x double sided PCB

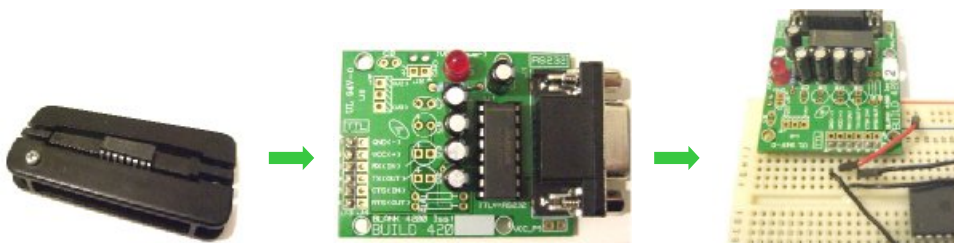
### 2) Start Soldering!

Fit small components first e.g. the resistor (R1) and DIL socket (U1). Then fit the LED (D1) and electrolytic capacitors (C1-C5) noting their polarity. Now solder the 9 way D-type socket (J1). After soldering ensure the leads are trimmed using a side-cutter.



### 3) Finish off and start using!

Now solder the 6 way header (TTL connection) underneath the board (J3). Clean off any flux on the PCB underside using a PCB cleaning solvent or similar and a brush. Finally (preferably using a IC straightner if you have one) ensure the MAX232 pins are straightened and then place into the DIL socket (U1). Take sensible antistatic precautions.



Check all solder joints for shorts or dry joints.

**Happy breadboarding!**

Feedback always welcome! If you have any suggestions or would simply like to tell us how this product is helping you with your projects or would like to make new product suggestions - we'd love to hear from you! Email us.