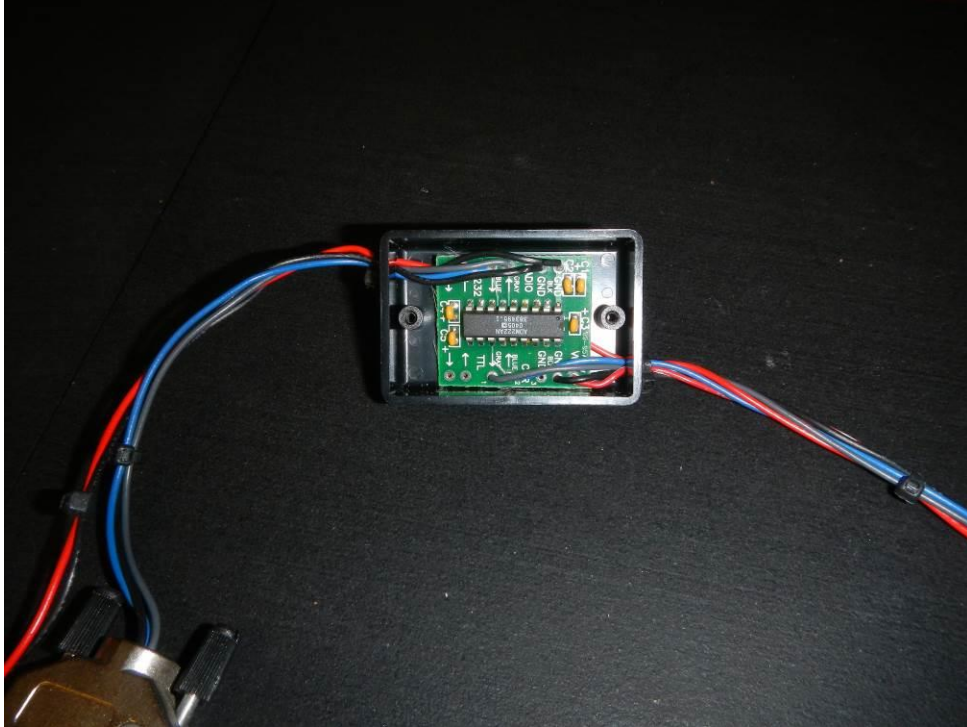# Modify 504552 to RS232

The converter 504552 is used to convert RS232 to TTL signals for older CPR2102 time switches. It is used in several designs, these modifications work for all of them.

1. Remove the cover and identify the Time switch side and the RS232 side. Note in the picture below the RS232 side is facing up in the photograph. Similarly the TTL side is facing down.
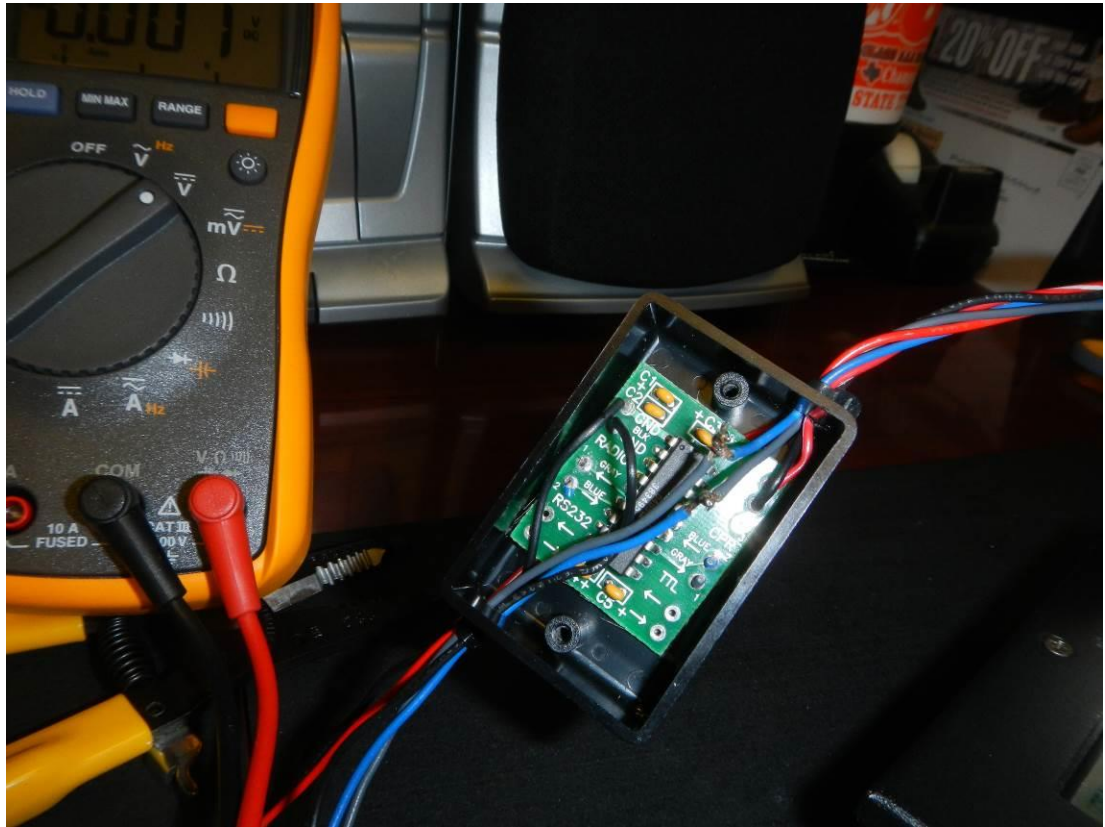
2. There are grey and blue wires coming in from both ends. Clip them from the board. Leave all other wires attached.
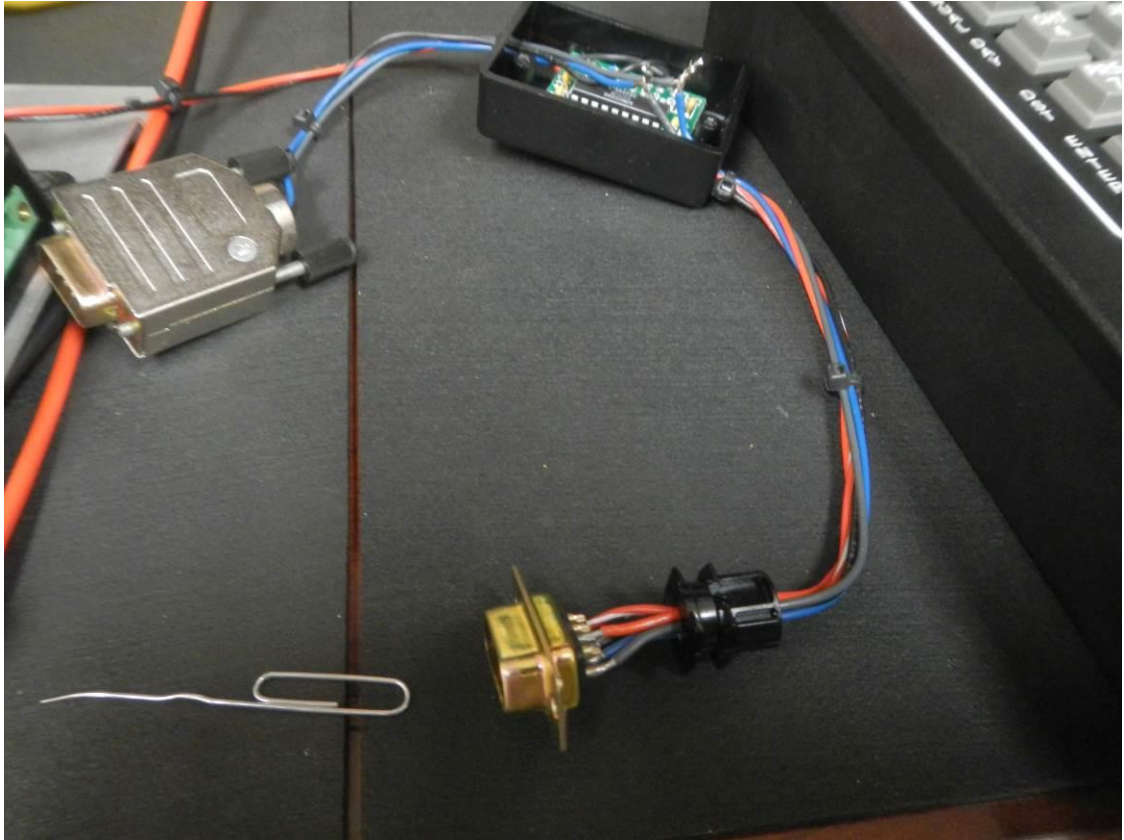
See picture below.

3. Solder the blue to the grey for both sides as seen below. Blue TTL to grey RS232,Grey TTL to Blue RS232. Once soldered insulate them from each other with either electricians tape or perhaps heat shrink tubing.

4. On the TTL connecter to the time switch you need to move the wire from Pin1 to Pin 9. This wire should be grey.

5. Re attach the covers and you are done.