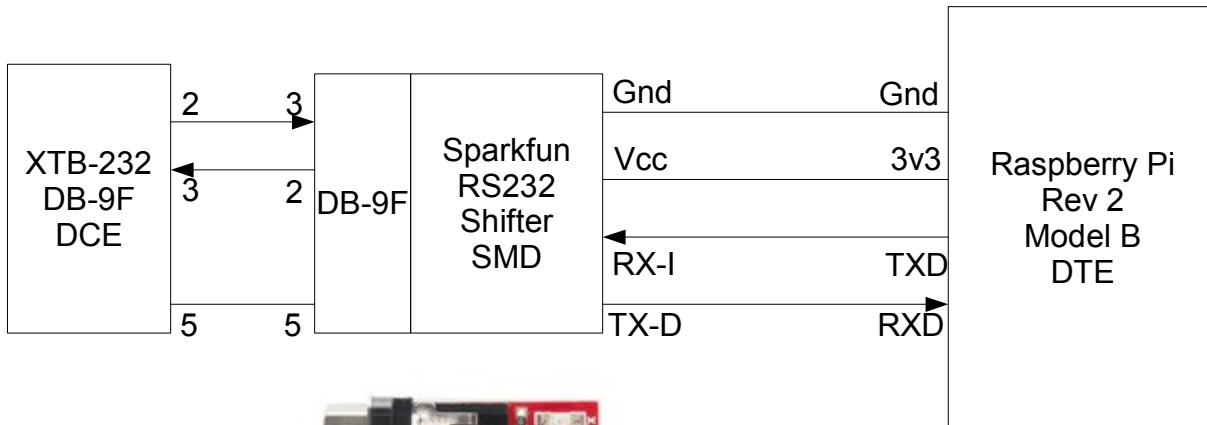
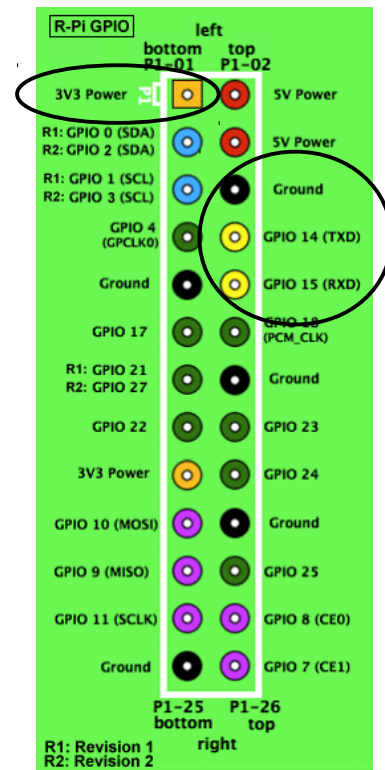


# How to connect a JVDE XTB-232 to a Raspberry Pi using a Sparkfun RS232 Shifter SMD



<https://www.sparkfun.com/products/449>



## Notes

- The markings on the Sparkfun Shifter reflect a DCE. This is further indicated by the use of a DB-9F connector.
- The wiring between the XTB-232 DB-9F and the Sparkfun Shifter DB-9F needs to be "null modem". Hence, the signals on pins 2 and 3 must be swapped (Tx/Rx swap). Pin 5 is GND.
- The data received from the RPi on the Sparkfun Shifter RX-I signal is transmitted on Shifter DB-9F pin 2. A null modem cable is needed to swap this signal to the XTB-232 DB-9F pin 3.
- Correspondingly, the data received from the XTB-232 DB-9F pin 2 through the Shifter's DB-9F pin 3 (null modem) is transmitted to the RPi from the Shifter's TX-D line to the RXD pin.