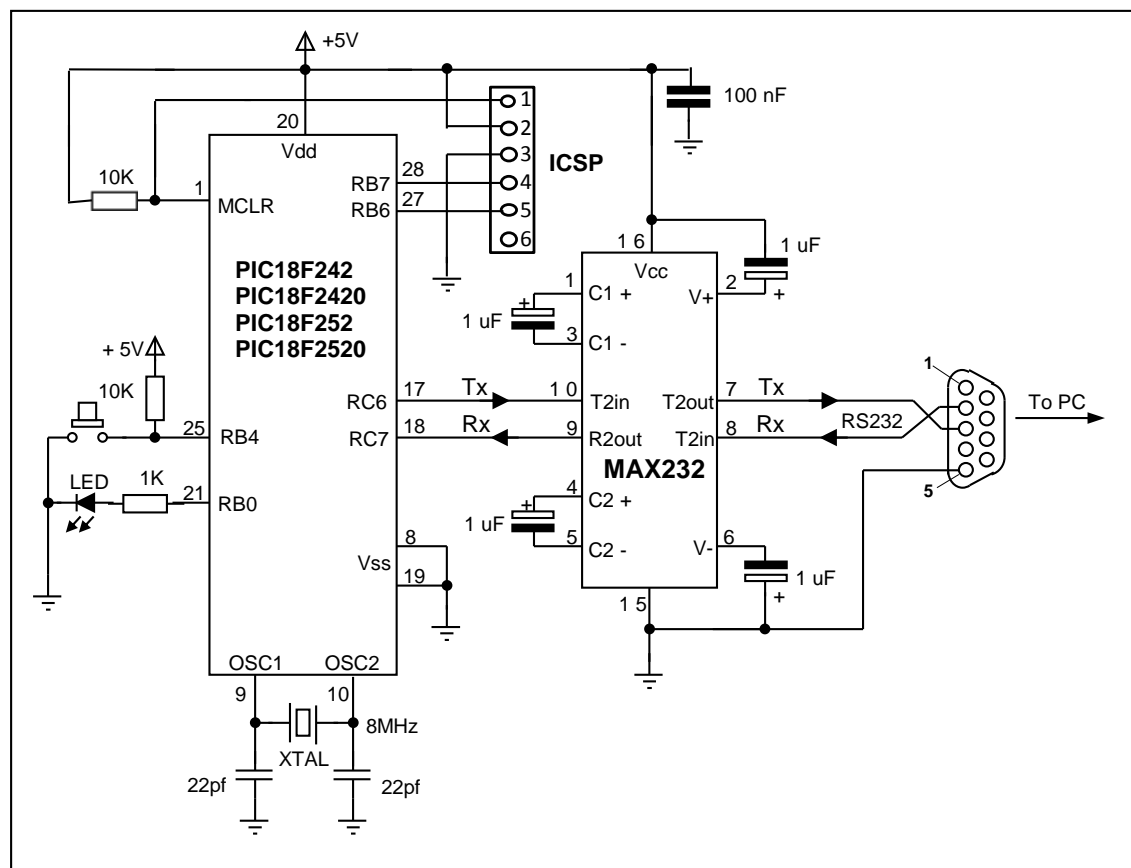


VPS\_P18 can be tested with minimal hardware if you do not use all the peripherals catered for. The following are the basic requirements and can be assembled on a piece of stripboard. The circuit includes a LED and pushbutton but you can omit them. The MAX232 IC is required to convert the serial port signals to the required RS232 levels. The 8MHz crystal is important. The initialization software will set up the hardware to use the PIC's PLL, for an effective 32MHz clock rate, and a 38400 Baud rate for communicating

with the PC running the VPS\_P18 software. For those PC's without a serial port you can use a USB-to-serial converter. You can use a PicKit2 or PicKit3 with the ICSP interface.



Basic circuit diagram for 28-pin processor

The following is the circuit diagram for the breadboard module.

