

This diagram illustrates the internal wiring of the Main Board, which is housed within the control box. The board features a PIC 16F1937 microcontroller and a MAX232 level shifter. The wiring connects various components, including a ribbon connector, a 12V switch, a 5V switch, and a 5V LED. The diagram shows the following connections:

- Ribbon Connector:**
 - 5v to PB switch
 - 5v to pwr on LED
 - signal from PB switch
 - 12v from switch
 - Gnd to rdy ESC rdy LED
 - 5v to ESC rdy LED
 - Gnd to LEAK LED
- PIC 16F1937:**
 - MCLR
 - RA0/AN0
 - RA1/AN1
 - RA2/AN2
 - RA3/AN3
 - RA4
 - RA5/AN4/SS
 - RD0/RD/AN5
 - RD1/RD/AN6
 - RD2/CS/AN7
 - OSC1/VCLKIN
 - OSC2/VCLKOUT
 - RC0
 - RC1
 - RC2
 - RC3
 - RD0/PSP0
 - RD1/PSP1
- MAX232:**
 - C1+
 - C1-
 - C2+
 - C2-
 - T1IN
 - T2IN
 - R1OUT
 - R2OUT
 - T1OUT
 - T2OUT
 - R1IN
 - R2IN
- Other Components:**
 - 12V switch
 - 5V switch
 - 5V LED
 - 12V LED
 - 5V LED
 - 12V LED

<https://bitdrivencircuits.com/ROV/ROVhome.html>
<https://github.com/electroBin/RovControlBox>

