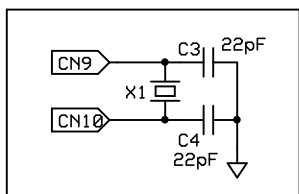


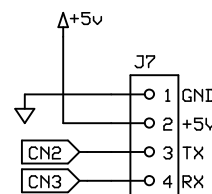
**OPTIONAL CRYSTAL/CERAMIC RESONATOR**



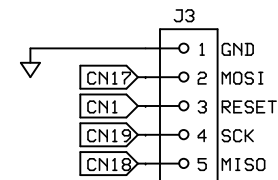
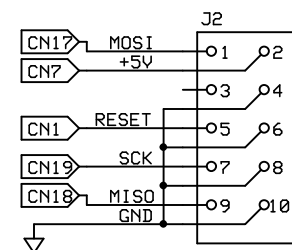
**NOTES:**

- THE MCU USES THE INTERNAL RC OSCILLATOR BY DEFAULT. IF DESIRED, YOU CAN ALSO USE EITHER A CERAMIC RESONATOR OR A CRYSTAL
- C3,C4 ARE 22PF-33PF, BUT AREN'T REQUIRED IF A CERAMIC RESONATOR IS USED
- J4,J5,J6 ARE SCREW TERMINALS FOR BATTERY AND MOTOR LEAD CONNECTIONS
- A 7805 CAN BE SUBSTITUTED FOR THE L4931, BUT VOLTAGE IN SHOULD BE 7V OR GREATER
- J8 HAS SHUNTS ACROSS THE PINS THAT CAN BE REMOVED IF YOU WISH TO CHANGE THE PINS USED TO DRIVE THE FAN8200
- JUMPER J9 IS USED TO ENABLE/DISABLETHE MOTORS.
- THE DATASHEET FOR THE L4931 RECOMMENDS A 10UF OR GREATER CAP ON THE OUTPUT. IF DESIRED, REPLACE C2 WITH A SMALL FACTOR CAPACITOR (TANTALUM OR SIMILAR) OF 10UF OR GREATER SIZE.

**SERIAL CONNECTOR**



**ISP CONNECTORS**



**CHIBOT CONTROLLER**

**Wright Hobbies LLC**

Eddy Wright

Rev 2.4.3

2/5/2007