

### Power Supply

The schematic diagram illustrates a power supply circuit. It includes three input terminals: X5-1 (labeled 1), X5-2 (labeled 2), and X5-3 (labeled 3, with MSTBV3 below it). X5-1 is connected to a 1N4004 diode (D1) in series with a 220 ohm resistor (R16). X5-2 is connected to a 1N4004 diode (D2). X5-3 is connected to a 10uF 25V capacitor (C16). The outputs of D1 and D2 are connected to the IN pin of an LM317 voltage regulator (IC7). The ADJ pin of IC7 is connected to a 220 ohm resistor (R15) and a 100nF capacitor (C15) to ground. The OUT pin of IC7 is connected to a 390 ohm resistor (R14) and a 10uF 25V capacitor (C13) to ground. The output of the regulator is labeled VDD. There is also a section labeled VCC, which is connected to the IN pin of an LM317 voltage regulator (IC6). The ADJ pin of IC6 is connected to a 220 ohm resistor (R16) and a 10uF 25V capacitor (C14) to ground. The OUT pin of IC6 is connected to a 10uF 25V capacitor (C16) to ground. The output of IC6 is labeled VCC.

Oscillators	<p>The diagram shows four oscillator modules labeled OSC1, OSC2, OSC3, and OSC4. Each module is connected to ground (GND) through a capacitor. The capacitors are labeled C7, C8, C9, and C10. The frequencies for each oscillator are 20MHz, 20MHz, 32.768 kHz, and 20MHz respectively.</p>
Programming	<p>The diagram shows an ICSP-5/90 module connected to various pins. The pins are labeled VPP, VDD, VSS, PGD, PGC, and MCLR. A resistor R13 is connected between VDD and MCLR. The value of R13 is 10k.</p>
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