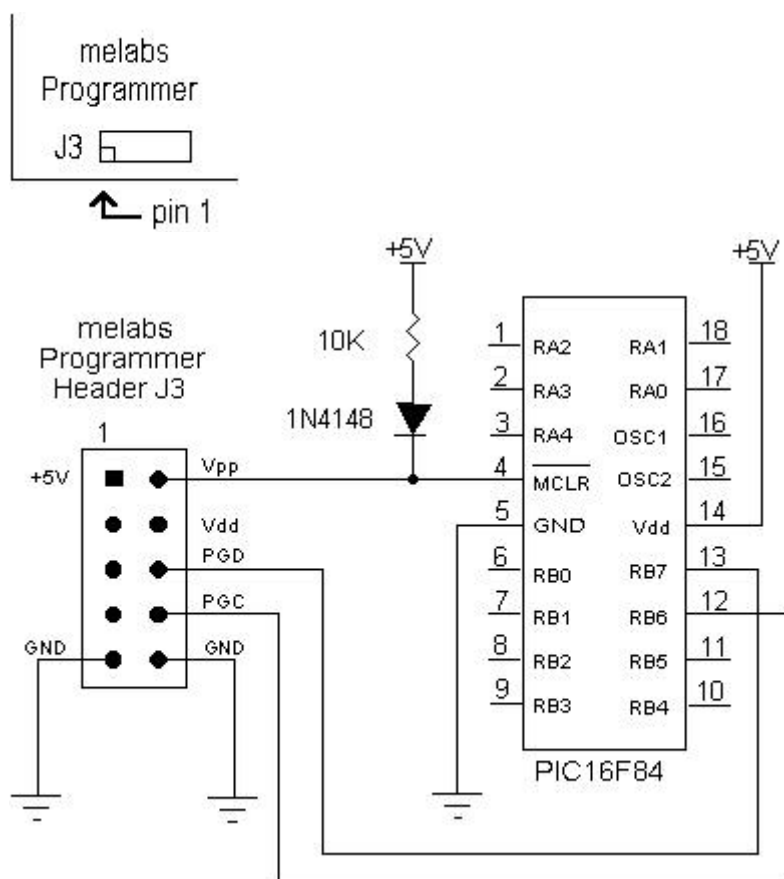


ICSP

In-Circuit Serial Programming with the EPIC Programmer or melabs Serial Programmer

Our Programmers may be used for in-circuit serial programming of serial programmable PICmicro MCUs through the 10-pin expansion header J3. Vpp, RB6, RB7 and ground should be connected as in the following diagram. Any additional connections to /MCLR, RB6 and RB7 should be designed as to not interfere with in-circuit programming. The cable connecting the programmer's 10-pin header to the target board should be less than 6 inches long. The drawing shows the pinouts and connections to the 18-pin PIC16F84. For other PICmicro MCUs, use their corresponding pin connections.



Note: +5 volts should be supplied to the PICmicro MCU by the target system. The +5 volt and Vdd lines from the EPIC Plus Programmer header are not intended to power external circuits.

Note for PIC16F62x: PORTB, pin 4 should be connected to ground to prevent interference from the Low Voltage Programming pin.

Note for PIC16F87x: PORTB, pin 3 should be connected to ground to prevent interference from the Low Voltage Programming pin.

Note for PIC18Fxxx: PORTB, pin 5 should be connected to ground to prevent interference from the Low Voltage Programming pin.

Note for PIC17C7xx: These devices may also be programmed in-circuit. However, different pins are required than shown above. See the Microchip programming spec on these devices for more information.

	ICSP	8-pin	8-pin	14-pin	18-pin	28-pin	40-pin
target connection		10Fxxx DIP	12F629 12F675	16F676 16F630	16C84 16F84(A) 16F627 16F628	16F73 16F76 16F870 16F872 16F873 16F873A 16F876 16F876A 18F242 18F248 18F252 18F258	16F74 16F77 16F871 16F874 16F874A 16F877 18F442 18F448 18F452 18F458
Gnd (ground, VSS)	9,10	7	8	14	5	8, 19	12, 31
Vcc (power, Vdd)	4	2	1	1	14	20	11, 32
CLK / PG K	8	4	6	12	12	27	39
DAT / PG D	6	5	7	13	13	28	40
Vpp/MCLR	2	8	4	4	4	1	1

Tabella con i PIC piu comuni, per ulteriori PIC consultare il sito www.microchip.com