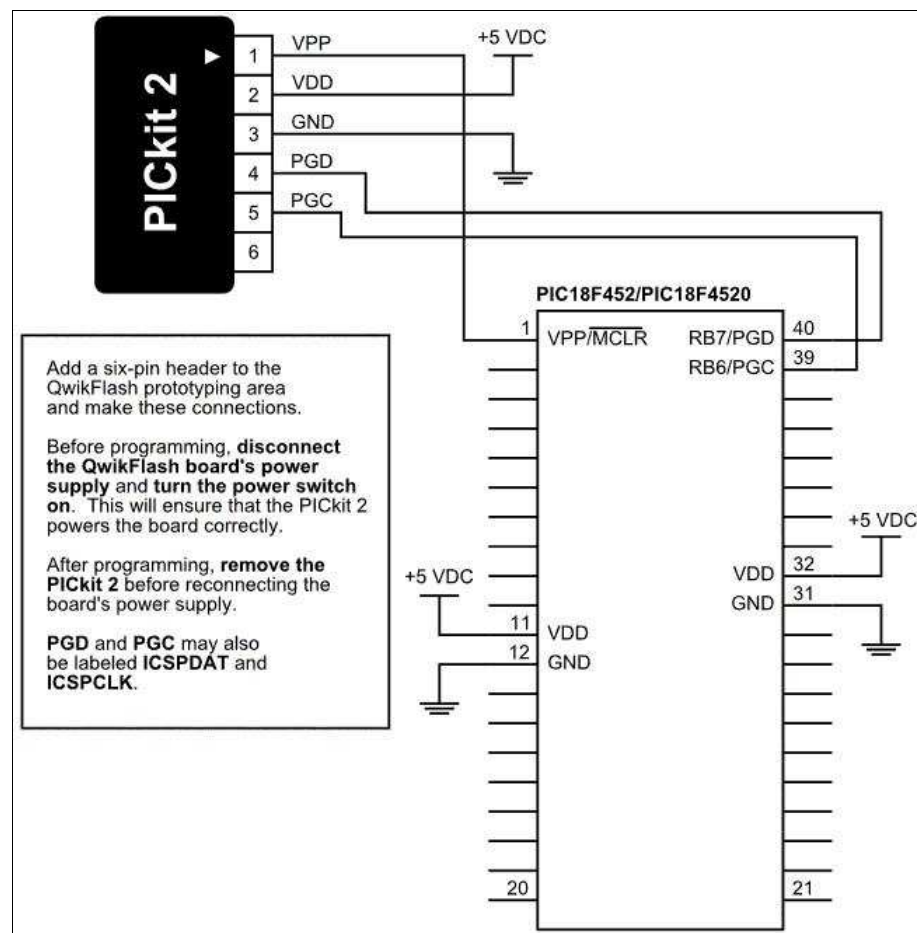# QwikProgram 2 Usage Guide

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QwikProgram 2 is a simplified tool for downloading QwikBug to a PIC18F452 or PIC18F4520, for use with a QwikFlash board. This tool is not supported by Microchip Technology, Inc. - please contact the author (at louis@gatech.edu) if you have any trouble.

**Note**: This software is designed for use with John Peatman's QwikFlash board, which uses the PIC18F452 or PIC18F4520. If you are using a different PIC, or are not using this board, you might want to download the official Microchip programming software for the PICkit 2.

- Connect the PICkit 2's programming pins to the corresponding pins on the target microcontroller, as shown below.



- You can set this circuit up on a breadboard, and then transfer the microcontroller to the QwikFlash board.
- You can also wire up the necessary connections in the QwikFlash board's prototyping area. **If you do this, be sure to disconnect the QwikFlash board's power supply and**

**turn the power switch on.** When the power switch is turned off, the positive voltage supply is shorted to ground.

- When QwikProgram 2 starts up, it will attempt to detect the PICkit 2 and any microcontroller attached to it. If you need to perform this detection again, select **Detect** from the **Device** menu.
- Click **Write** to download QwikBug. If the PICkit 2's firmware is in need of an upgrade, then this button will display **Upgrade** instead. You will be able to write the hex file once the firmware upgrade completes.

If QwikProgram 2 cannot find the PICkit 2, try rebooting your computer with the programmer connected to a USB port.

If you have any questions or if something goes wrong, please contact the author, Louis Howe, at louis@gatech.edu. QwikProgram 2 is based on the source code released by Microchip for their PICkit 2 Windows programming software.