

# **\*\*HOWTO PROGRAM A PIC18f452 WITH A PICKIT2\*\***

*This page is here in hopes of helping someone else avoid having to go through what i did in figuring it all out.*

The Pickit2 USB Programmer WILL generate the required voltages for HVP programming of the chip.

It is possible to program you midibox core pic chip with this adapter and a Pickt2 from Microchip by following these steps.

**1. BUILD THIS ICSP ADAPTER** In order to do HVP with this circuit, you will need to short

the jumper going to pin 38 of the pic18f452.

...will insert my schematic schreenshot here when i can get the uploader to work.

until then it's attached to these forum posts:  
<http://www.midibox.org/forum/index.php/topic,10877.0.html>  
<http://www.midibox.org/forum/index.php/topic,10500.0.html>

**2. PLUG IN YOUR PICKIT2 TO YOUR PC VIA USB.**

**3. CONNECT THE PICKIT2 TO THE ADAPTER YOU BUILT IN STEP 1.** pin one of the pickit2 is the pin marked with a small triangle,

align this with your adapters icsp header's pin one.

**4. INSERT YOUR PIC18f452 IN THE ADAPTER'S IC SOCKET.**

pin 1 of the ic socket will be connected to pin 1 on the pickit2 for a ref. point.

**5. start the pickit2 upload app.**

you should already have installed this from your pickit2 CD.

**6. load the most current bootloader file**

LINK TO THE MIOS DOWNLOADS PAGE: [http://www.ucapps.de/mios\\_download.html](http://www.ucapps.de/mios_download.html)

**7. CLICK THE UPLOAD HEX FILE BUTTON IN THE PICKIT2 APP.**

**8. once the software tells you it's done, click verify.**

**9. PULL THE CHIP FROM THE PROGRAMMING ADAPTER AND INSERT IT TO YOUR MBHP\_CORE.**

## 10. from here, there is plenty of other documents on the wiki describing the next steps...

LINK: [http://www.ucapps.de/mios\\_bootstrap.html](http://www.ucapps.de/mios_bootstrap.html)

other from posts that were helpful in this research...

<http://www.midibox.org/forum/index.php/topic,11754.0.html> - dscussion of me starting to build a

MBHP\_CORE <http://www.midibox.org/forum/index.php/topic,9831.0.html> - discussion about HVP versus

LVP <http://www.midibox.org/forum/index.php/topic,10050.0.html> - another discussion about HVP

versus LVP

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<http://midibox.org/dokuwiki/> - **MIDIbox**

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Last update: **2009/01/25 19:04**

