



DHF spot welder Firmware Upgrade

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1. Introduction

The Damien DHF digital high frequency spot welder series allow the customer to download new firmware from damien's web site. Free upgrades are available as well as

- Upgradable firmware via web : download the latest upgrades from the web and load them into the welder.

2. Steps for downloading a new firmware

1. Download the firmware upgrade on your computer from damien's website (http://www.damientech.com/us/dhf_fw.htm)

The file must be have a .HEX extension.

Connect the spot welder with an RS232 cable to the RS232 port of your PC.

Keep the two left buttons pressed while you turn the Spot welder on.

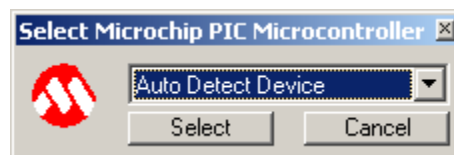
You should see on the screen the following message :

```
- Digital Welding Control -  
(C) Damien technologie 2005  
BOOTLOADER v1.0 started
```

If you have a problem you can always exit the Bootloader by turning off the spot welder, keep the two right buttons pressed while you turn the Spot welder back on.

2. Launch the Microchip P1618QP Application on your PC (you can download this Microchip software for free from the microchip website <http://www.microchip.com> or at http://www.damientech.com/us/soft/pic18_bootloader/pic18_bootloader.exe)

The following window will appear :



3. Click on Cancel, the following window appears :

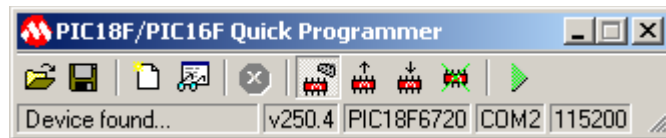



4. Right click on "COM1" to select the PC's RS232 port your welder is connected to.


5. Right click on "9600" and select the fastest speed 115200 bauds.

6. Click on the connect device  icon

Make sure that the programmer has detected a device, for example PIC18F6720 as shown below, if the message PICUNKNOWN appears, it means the RS232 connection failed. If the connection failed, check that the RS232 cable is correctly connected and make sure you selected the right RS232 port

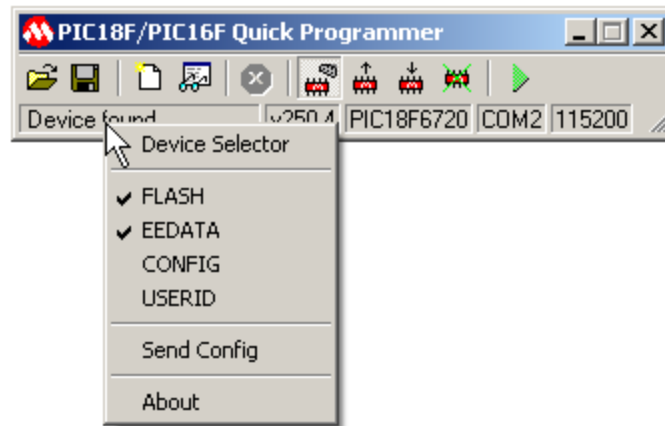


7. Click on the  file icon and open the .HEX firmware file you downloaded

8. Click on the  erase icon to rase the current firmware in the spot welder

9. If you right click on the status you can select what to program. By default both FLASH and EEDATA are selected which is generally the way you want to proceed.

- If only FLASH is checked, the firmware will be upgraded but your welding programs will be preserved.
- If only EEDATA is checked the firmware will not be upgraded and only the welding programs will be re-programmed.
- If both FLASH and EEDATA are checked, the firmware will be upgraded and the default welding programs will be loaded in the spot welder



10. Click on the write  icon to program the new firmware in the spot welder

If you see the message “failed to write device...” there was a problem programming the chip. It is possible that the firmware you are trying to install is not licenced for this machine or that you are attempting to install an incorrect version of free upgrade (e.g. Installing an upgrade rev. 2.6 on a machine with rev. 2.3 is allowed, but installing the upgrade rev. 2.6 on a machine with rev. 1.x is not allowed)


11. Click on the execute  icon to end the bootloader sequence and start the spot welder firmware

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