Программатор Pickit 2



Проще всего работать в программе "PICkit 2 Programmer", идущей вместе с программатором – не требуется лишних действий, все настройки по-умолчанию (проще только спец. программа для Бинаров).

Итак, начнём с установки программы:

 На диске, идущем в комплекте с программатором есть папка Install, а в ней папка Pickit 2. Запускаем Setup.

2. Далее установка программы. Устанавливаем программу на компьютер (скрины привожу ниже).



😼 PICkit 2 v2.50.02	😼 PICkit 2 v2.50.02 📃 🗖 🔀
Welcome to the PICkit 2 v2.50.02 Setup Wizard MICROCHIP	Select Installation Folder
The installer will guide you through the steps required to install PICkit 2 v2.50.02 on your computer.	The installer will install PICkit 2 v2.50.02 to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse". <u>F</u> older:
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	C:\Program Files\Microchip\PICkit 2 v2\ Browse Disk Cost Disk Cost Install PICkit 2 v2.50.02 for yourself, or for anyone who uses this computer: © Everyone
Cancel < Back	C Just me Cancel < Back

PICkit 2 v2.50.02	□ X B PICkit 2 v2.50.02	
Confirm Installation	MICROCHIP	plete
The installer is ready to install PICkit 2 v2.50.02 on your computer.	PICkit 2 v2.50.02 has been	successfully installed.
Click "Next" to start the installation.	Click "Close" to exit.	
	Please use Windows Updat	e to check for any critical
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спаять шлейфы для соединения программатора с микросхемами согласно отверстиям в плате и разъёму в программаторе.

На этом рисунке приведена схема подключения Pickit 2 к микросхеме Pic16F886.



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MICROCHIP

Close

pdates to the .NET Framework

Пульты бывают двух модификаций

В **старых** пультах контакты для программирования расположены в два ряда по три контакта, а в **новых** - 5 контактов вряд.

Таблица с описанием разъёмов:

Контакт на плате	Функция
1	ICSPCLK/PGC
2	ICSPDAT/PGD
3	VPP/MCLR
4	VDD/+5v
5	VSS/GND
6	Не используется

Для изготовления шлейфов идеально подходит рядный разъём для впайки в плату. В магазинах электроники таких полно, я подбирал по разъёму программатора (в платах пульта и котла соответствующие разъёмы и отверстия). Такие разъёмы продаются по 20 или 40 контактов (они легко делятся). Для котла можно так же подобрать соответствующую "маму".







Теперь самое интересное – приступаем к работе с программой Pickit 2

- **1.** Подключаем программатор к ноутбуку и соединяем его с платой при помощи шлейфа.
- Запускаем программу. При запуске программа PICkit 2 Programmer тестирует соединение с микросхемой и если со шлейфом ничего не напутали и зачистили от лака контакты на пульте, то в окне состояния будет написано: PICkit 2 found and connected. PIC Device Found. Так же будет отображена подключенная к программатору микросхема: PIC16F886
- Поле VDD PICkit 2 оставляем без изменений по-умолчанию 5 вольт, галочки ставить не нужно.
- 4. Перед началом заливки новой прошивки необходимо считать и сохранить EEPROM на блоке управления иначе если его случайно затереть, то восстановить будет не возможно – в нём хранится заводская калибровка датчика пламени и при затирании данных будет выдаваться соответствующая ошибка! (EEPROM пульта хранит только настройки таймеров и время работы котла). Можно сохранить только EEPROM, а можно и все данные целиком в одном файле *.hex, оперируя галочками, разрешающими работу (чтение или запись) с основной памятью и EEPROMom.
- 5. После сохранения EEPROма приступаем к заливке: Меню Fail → Import Hex (Ctrl+i)

PICkit 2 Pr	ogrammer				
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Выбираем соответствующий версии котла или пульта *. НЕХ файл. Прошивки для котлов Бинар 5 и Бинар 5-С/СВ РАЗНЫЕ. Номера бензиновых прошивок начинаются с единицы, а дизельных с **двойки.**

- **6.** Далее: отображает скрин 1 состояние программы после добавления *.hex файла
- 7. Перед началом записи необходимо защитить EEPROM – убираем галочку (скрин 2). При этом появится надпись: Preserve device EEPROM data on write.
- 8. Теперь можно заливать прошивку жмём кнопку Write (скрин 2). Программа запишет в чип данные и верифицирует их (скрин 3). Если всё прошло удачно, то появится надпись : Programming Successful. (скрин 4)

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Удачи!

