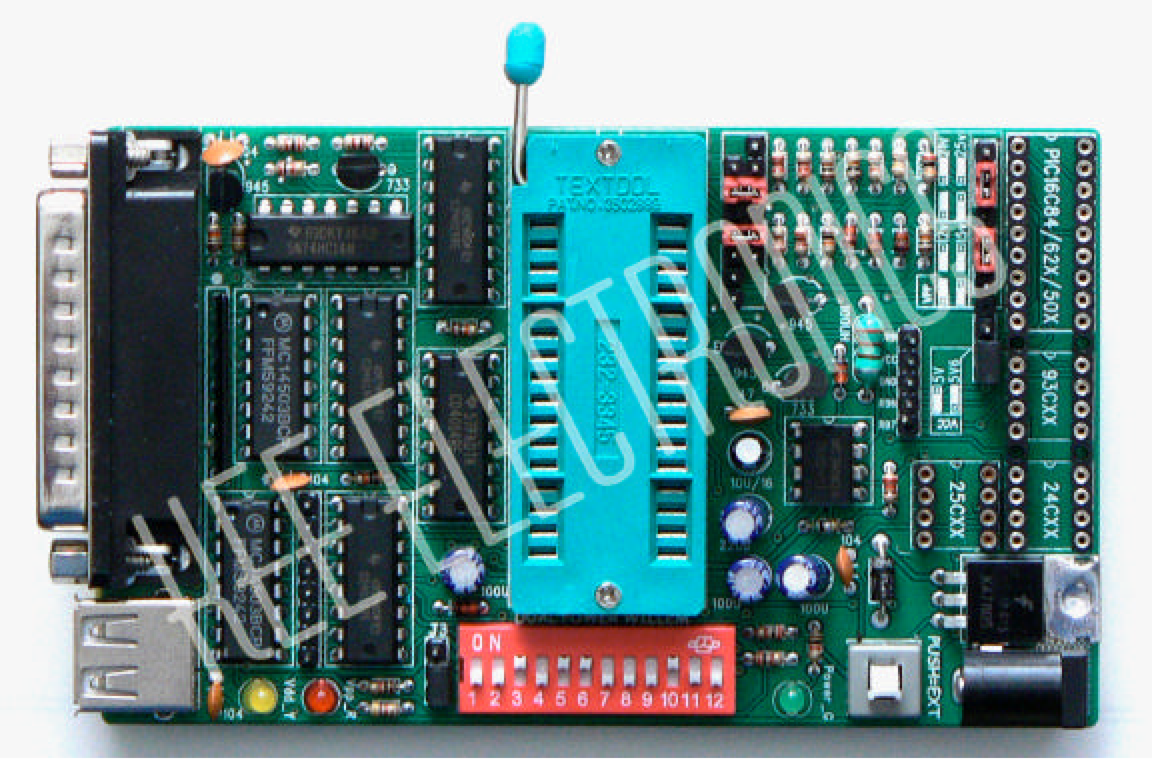
How to program your 12F629 with DualPower Willem programmer

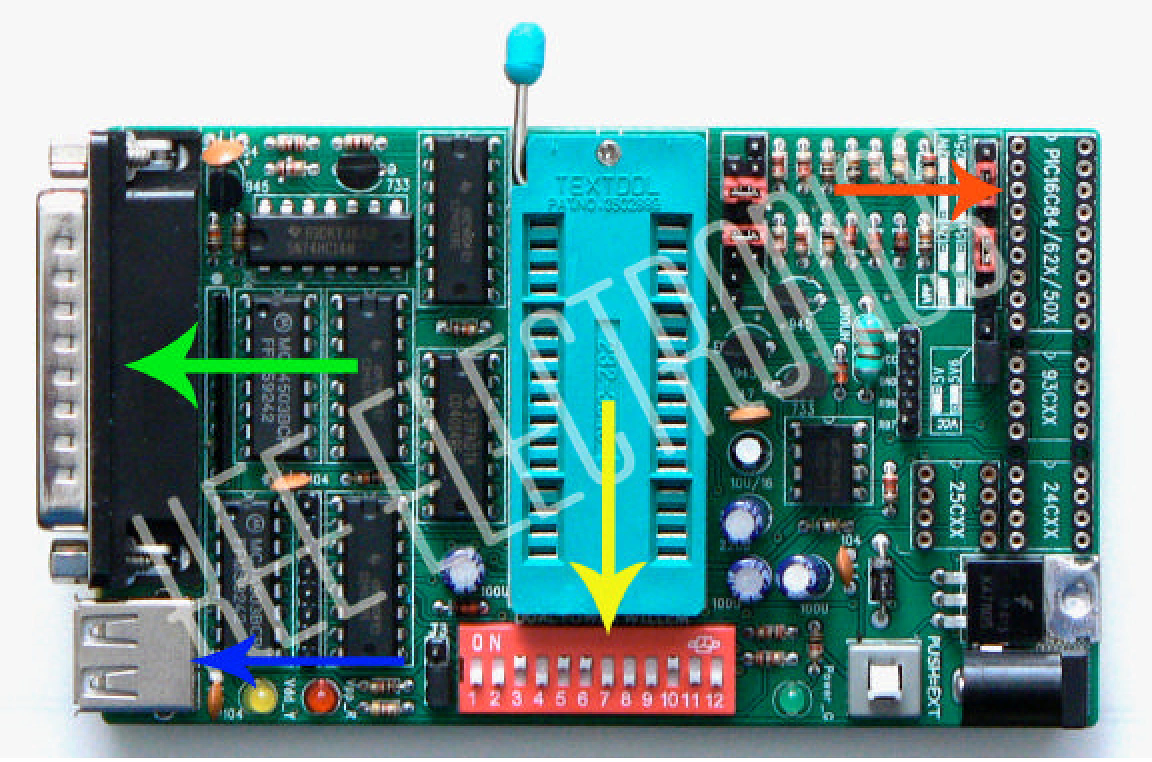


This guide will show you how to programme your PIC using a willem programmer. These are low cost open source programmers which can be built, or bought prebuilt (check E-bay). They are not expensive and can be used to programme a variety of chips. Please note however there are many different versions of the Willem programmer, with many different PCB designs, so the one you buy may not look exactly like the one shown in the picture. You can use any other programmer capable of programming the PIC12F629, the method should not differ that much.

****NOTE****

Under windows XP, you may not be able to gain full access to the I/O ports, you will need to download “USERPORT” and install this on the PC if you get “access violations” or other error messages when trying to run the programmer software.

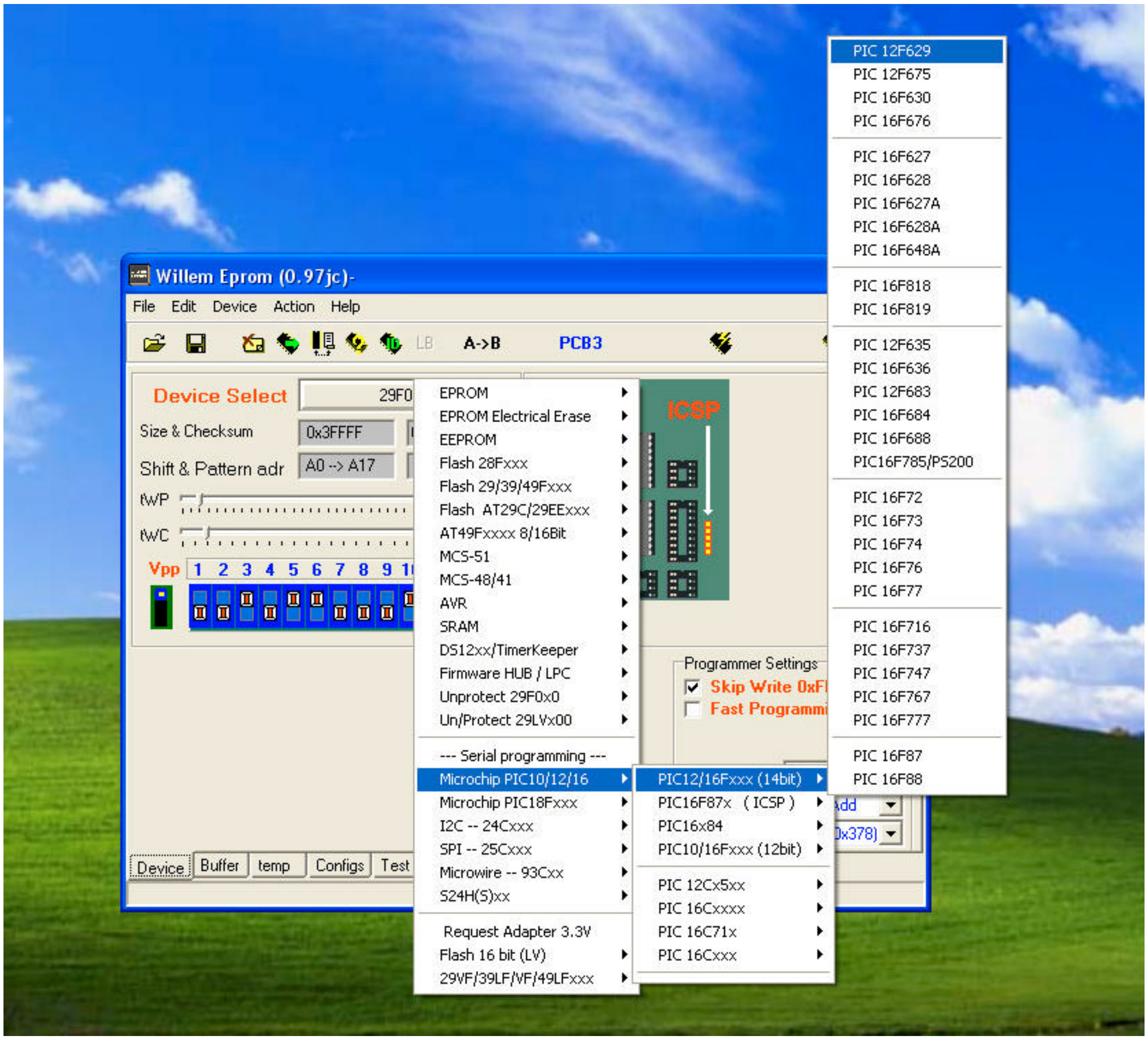
Programmer Layout



Green arrow = to PC Parallel port
Yellow arrow = Programmers DIP switch bank
Red arrow = IC socket where PIC12F629 should be placed
Blue arrow = USB port for external power.
Plug both the parallel lead and USB lead into the PC, or alternatively use the DC power jack (9-12v, 300mA).

Programming the PIC12F629

Setting the programmer up for programming is a simple affair, the willem`s software will show a diagram of how toset the DIP switches up for which ever device you are working with. The willem software that I use does not support the PIC12F629 however it does show the DIP selection for the PIC12F635 which is very similar. From now on this guide will be made up mainly of screen shots.


Willem Eprom (0.97jc)-

Device Select 29F0

Size & Checksum 0x3FFFF

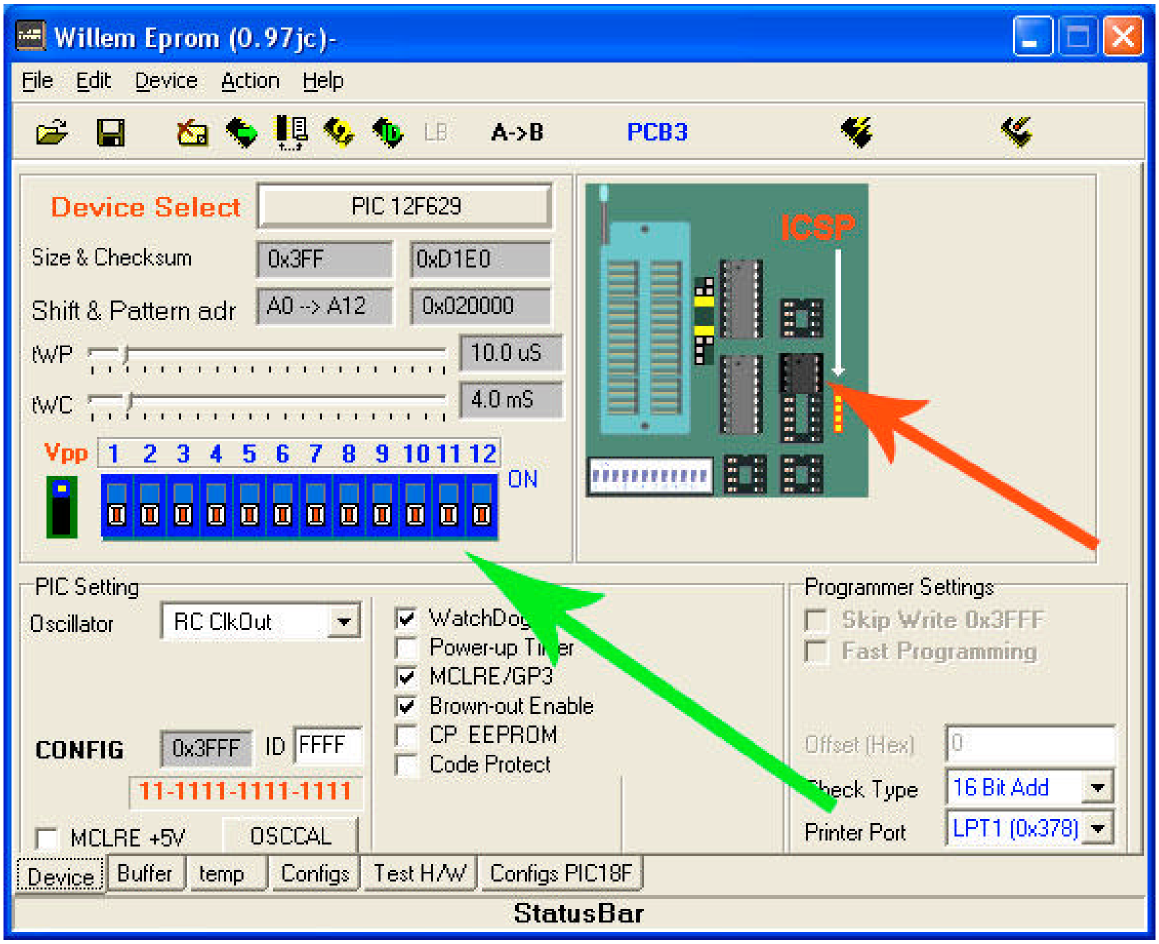
Shift & Pattern adr A0 --> A17

Programmer Settings

☑ Skip Write 0xFl

□ Fast Programmi

Open the willem programmer’s software, go to Device select and choose the PIC12F629 as shown in the screen shot.



Device Select: PIC 12F629

Size & Checksum: 0x3FF 0xD1E0

Shift & Pattern adr: A0 --> A12 0x020000

tWP: 10.0 uS

tWC: 4.0 mS

Vpp 1 2 3 4 5 6 7 8 9 10 11 12 ON

PIC Setting

Oscillator: RC ClkOut

☑ WatchDog Timer
☐ Power-up Timer
☑ MCLRE/GP3
☑ Brown-out Enable
☐ CP EEPROM
☐ Code Protect

CONFIG: 0x3FFF ID: FFFF

11-1111-1111-1111

☐ MCLRE +5V OSCCAL

Programmer Settings

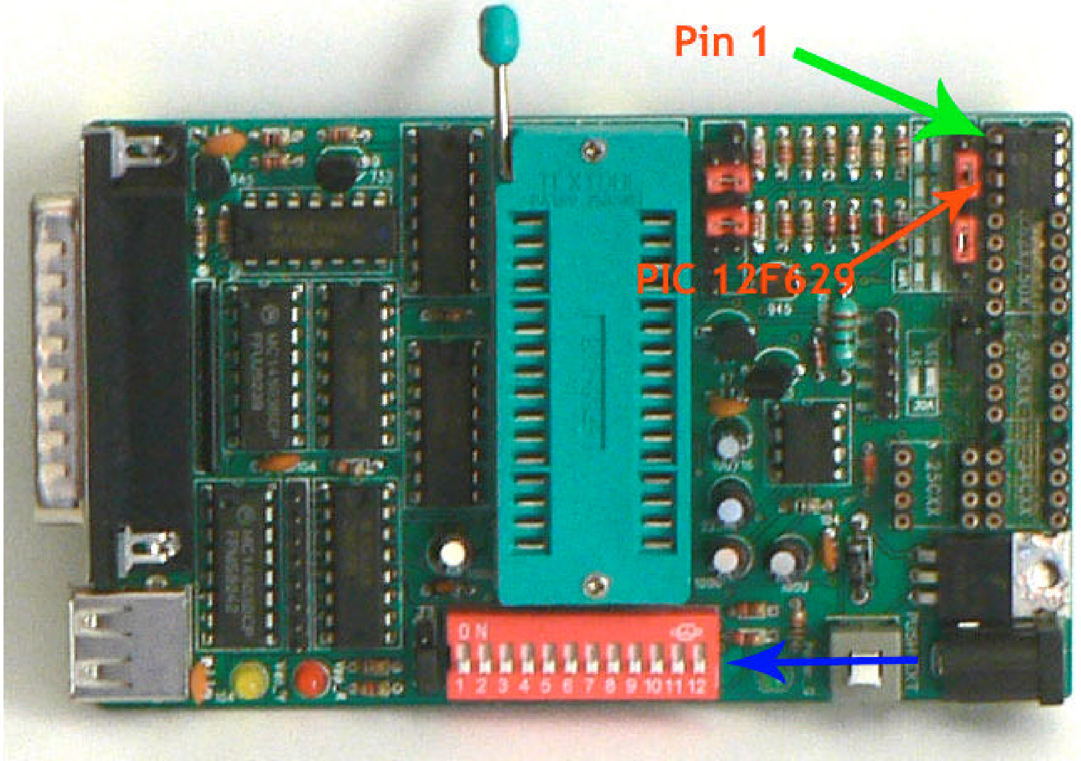
☐ Skip Write 0x3FFF
☐ Fast Programming

Offset (Hex): 0

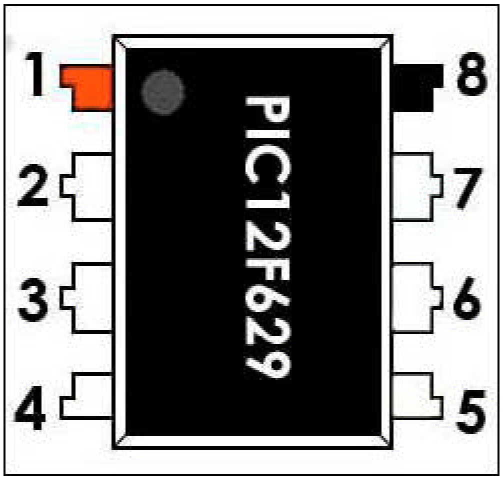
Check Type: 16 Bit Add

Printer Port: LPT1 (0x378)

By default the DIP switches on your programmer may not be set up correctly for this programming job. Handy that the willem software gives you a diagram of where the chip should reside on the programmer (Red arrow) and also the DIP switch selection indicated by the green arrow. You show now place the PIC chip into the programmer (shown in further detail in the following diagrams), and also set the DIP switches.

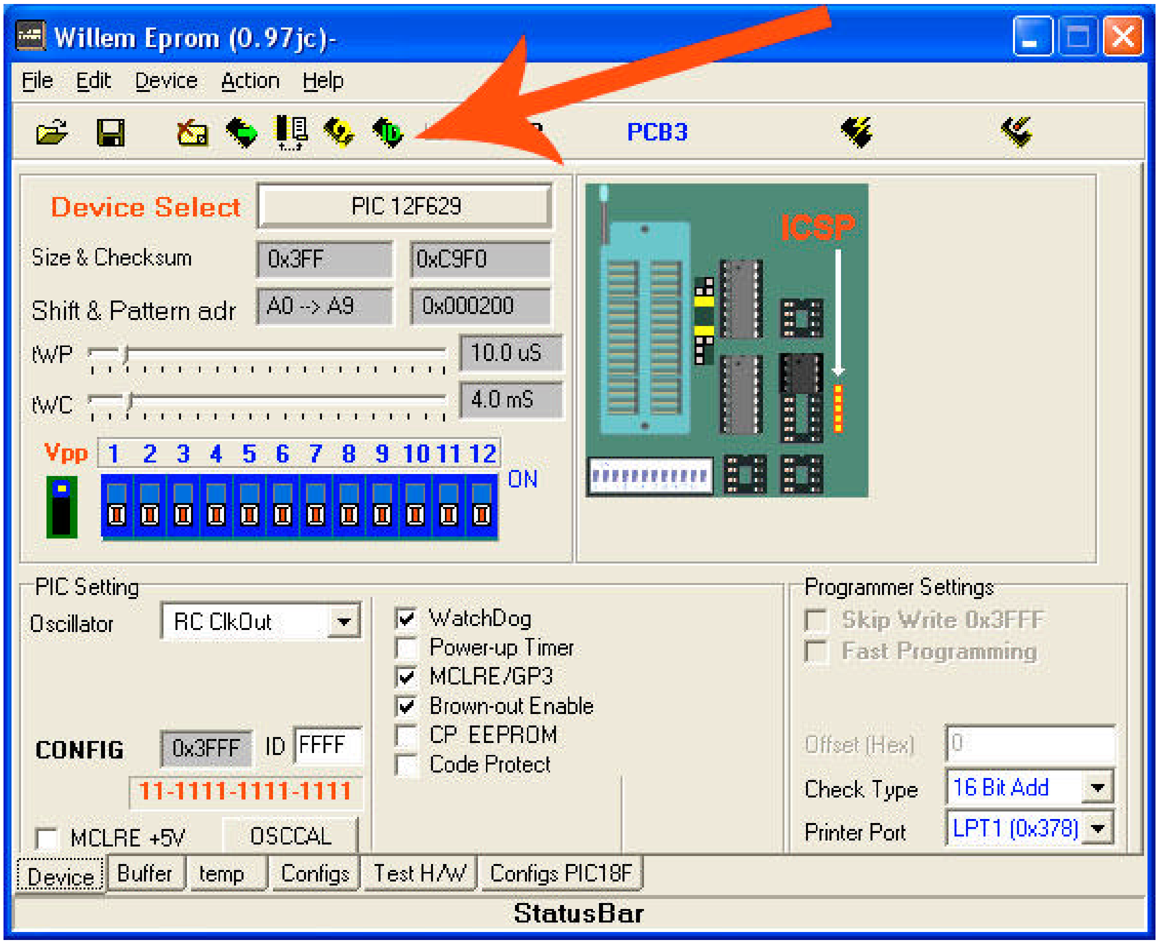


The PIC should be placed as shown by the red arrow with PIN 1 on the top left row of the socket as shown by the green arrow. It is important that this is inserted correctly, if done wrong you could damage the PIC or the programmer. There is a small circular indent on the PIC, the leg immediately to the left of this is always PIN 1.



This diagram shows the PIN numbers of the PIC.

The DIP switches are indicated by the blue arrow and all 12 should be in the off position (or down).



Device Select: PIC 12F629

Size & Checksum: 0x3FF 0xC9F0

Shift & Pattern adr: A0 --> A9 0x000200

tWP: 10.0 uS

tWC: 4.0 mS

PIC Setting

Oscillator: RC ClkOut

☑ WatchDog
☐ Power-up Timer
☑ MCLRE/GP3
☑ Brown-out Enable
☐ CP EEPROM
☐ Code Protect

CONFIG 0x3FFF ID FFFF

11-1111-1111-1111

☐ MCLRE +5V OSCCAL

Programmer Settings

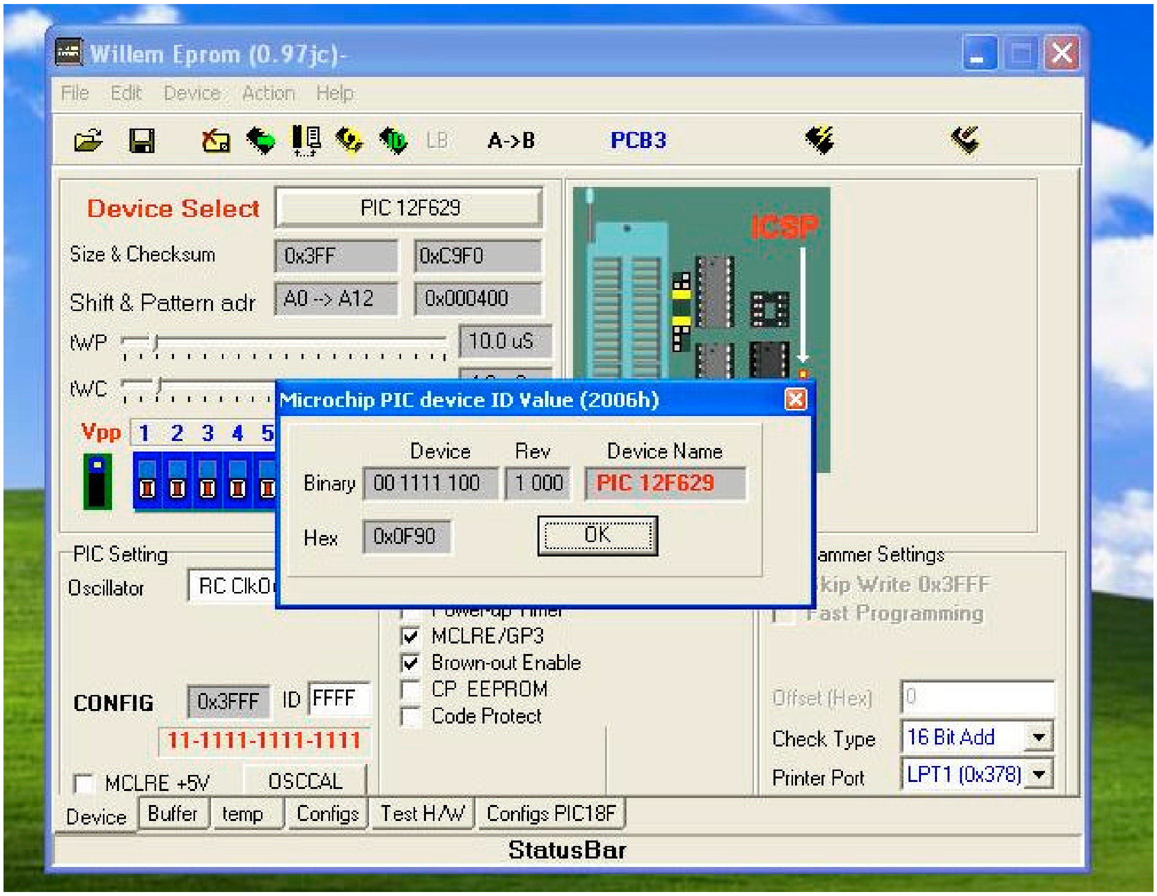
☐ Skip Write 0x3FFF
☐ Fast Programming

Offset (Hex): 0

Check Type: 16 Bit Add

Printer Port: LPT1 (0x378)

It’s a good practice to always check that the programmer can read the Device_ID. Click on the button indicated by the red arrow.



Device Select: PIC 12F629

Size & Checksum: 0x3FF | 0xC9F0

Shift & Pattern adr: A0 --> A12 | 0x000400

tWP: 10.0 uS

tWC

Microchip PIC device ID Value (2006h)

	Device	Rev	Device Name
Binary	00 1111 100	1 000	PIC 12F629
Hex	0x0F90		

OK

PIC Setting

Oscillator: RC ClkO

Power-up Timer

☑ MCLRE/GP3

☑ Brown-out Enable

☐ CP EEPROM

☐ Code Protect

CONFIG: 0x3FFF ID: FFFF

11-1111-1111-1111

☐ MCLRE +5V OSCCAL

ammer Settings

kip Write 0x3FFF

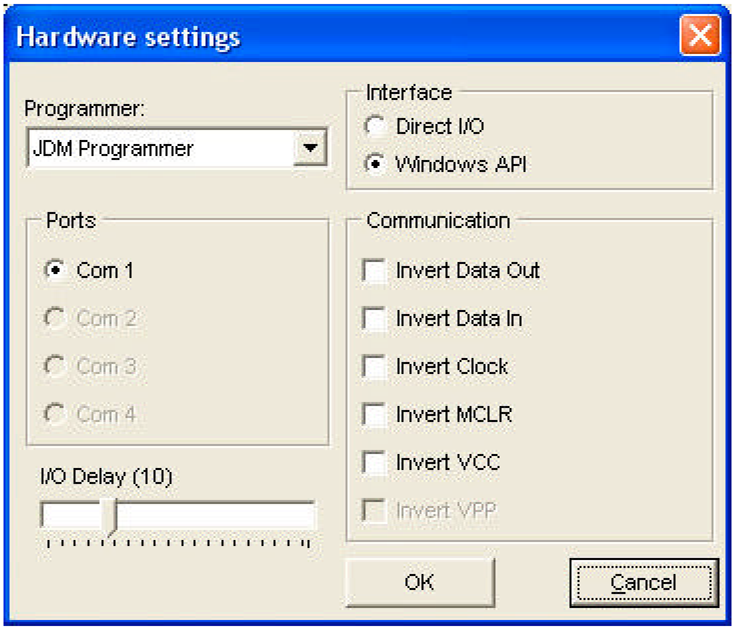
☐ Fast Programming

Offset (Hex): 0

Check Type: 16 Bit Add

Printer Port: LPT1 (0x378)

You should now be presented by a small window which will indicate the details of your PIC. If it does not show the Device name, please check that PIC is inserted correctly and try again. If it still will not show the Device name, your PIC may be damaged. If all is good we can now move on to programming your PIC.



Hardware settings

Programmer: JDM Programmer

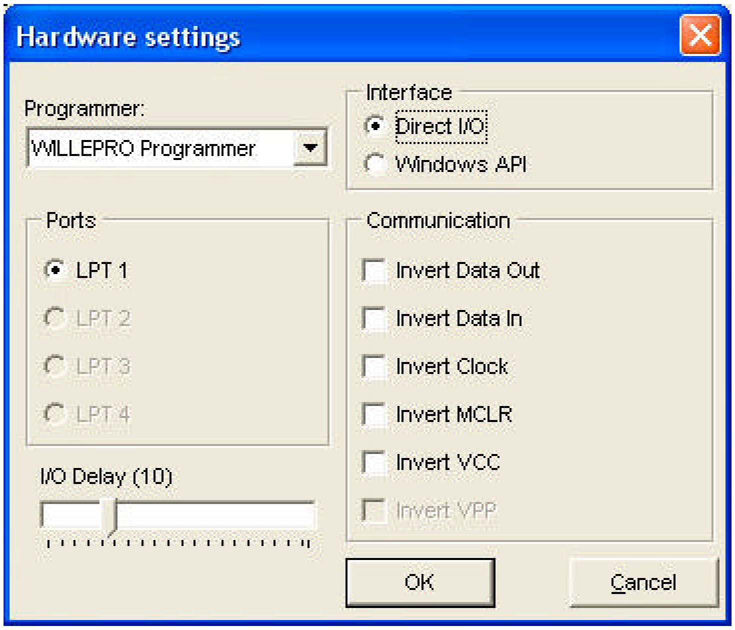
Interface
● Windows API
○ Direct I/O

Ports
● Com 1
○ Com 2
○ Com 3
○ Com 4

I/O Delay (10)

Communication
□ Invert Data Out
□ Invert Data In
□ Invert Clock
□ Invert MCLR
□ Invert VCC
□ Invert VPP

Start the program ICprog. You should now be presented with a screen to set your programmer up. We only need to select the programmer type here.



Hardware settings

Programmer: WILLEPRO Programmer

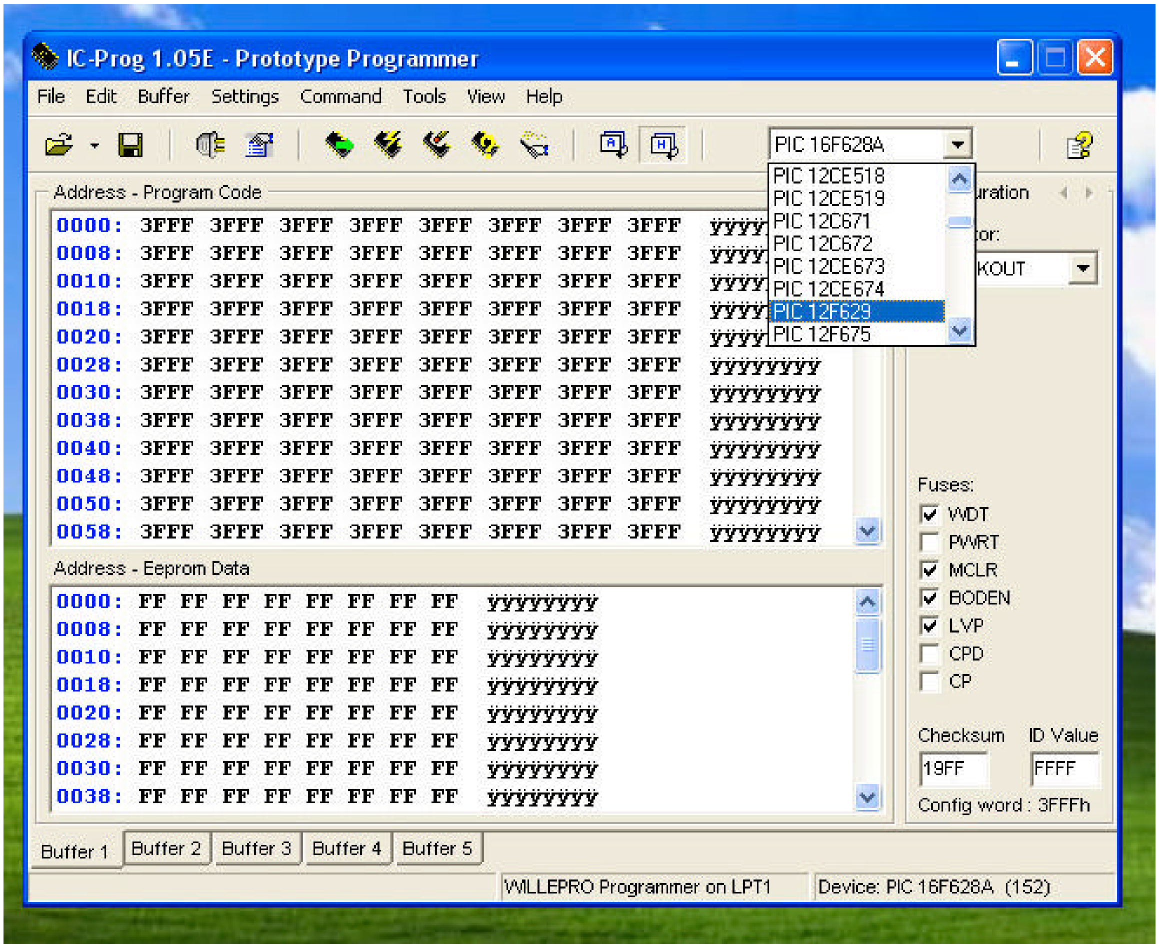
Interface
● Direct I/O
○ Windows API

Ports
● LPT 1
○ LPT 2
○ LPT 3
○ LPT 4

I/O Delay (10)

Communication
□ Invert Data Out
□ Invert Data In
□ Invert Clock
□ Invert MCLR
□ Invert VCC
□ Invert VPP

Use the drop down box, and select the “willepro programmer” and then click OK.



PIC 16F628A

- PIC 12CE518
- PIC 12CE519
- PIC 12C671
- PIC 12C672
- PIC 12CE673
- PIC 12CE674
- PIC 12F629
- PIC 12F675

Address - Program Code

```
0000:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿ
0008:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿ
0010:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿ
0018:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿ
0020:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿ
0028:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0030:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0038:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0040:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0048:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0050:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0058:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
```

Address - Eeprom Data

```
0000:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0008:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0010:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0018:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0020:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0028:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0030:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0038:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
```

uration

tor:

KOUT

Fuses:

☑ WDT
☐ PWRT
☑ MCLR
☑ BODEN
☑ LVP
☐ CPD
☐ CP

Checksum 19FF

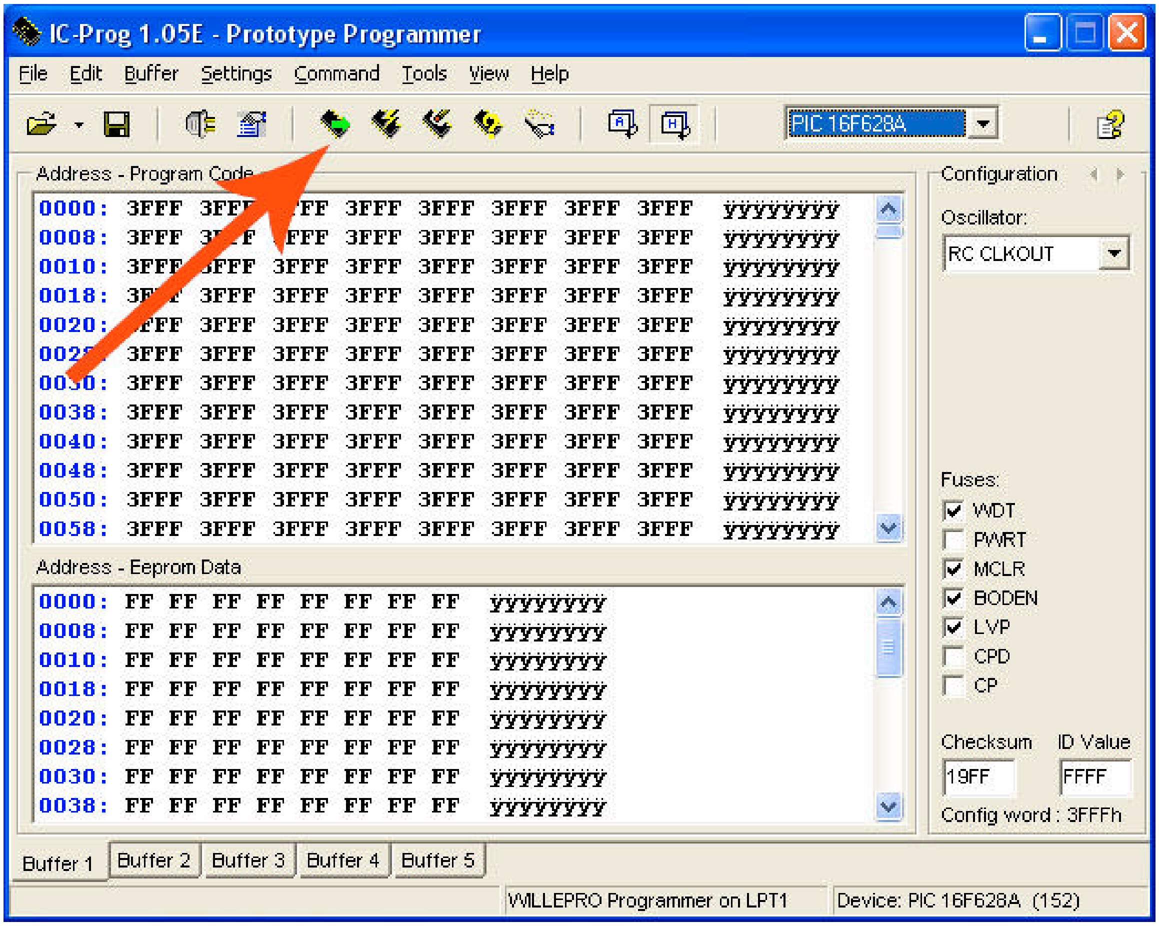
ID Value FFFF

Config word : 3FFFh

WILLEPRO Programmer on LPT1

Device: PIC 16F628A (152)

We now need to select the PIC type, use the drop down box and select “PIC12F629”.



Device: PIC 16F628A

Address - Program Code

```
0000:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0008:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0010:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0018:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0020:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0028:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0030:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0038:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0040:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0048:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0050:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
0058:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
```

Address - Eeprom Data

```
0000:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0008:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0010:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0018:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0020:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0028:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0030:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0038:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
```

Configuration

Oscillator: RC CLKOUT

Fuses:

☑ WDT
☐ PWRT
☑ MCLR
☑ BODEN
☑ LVP
☐ CPD
☐ CP

Checksum: 19FF

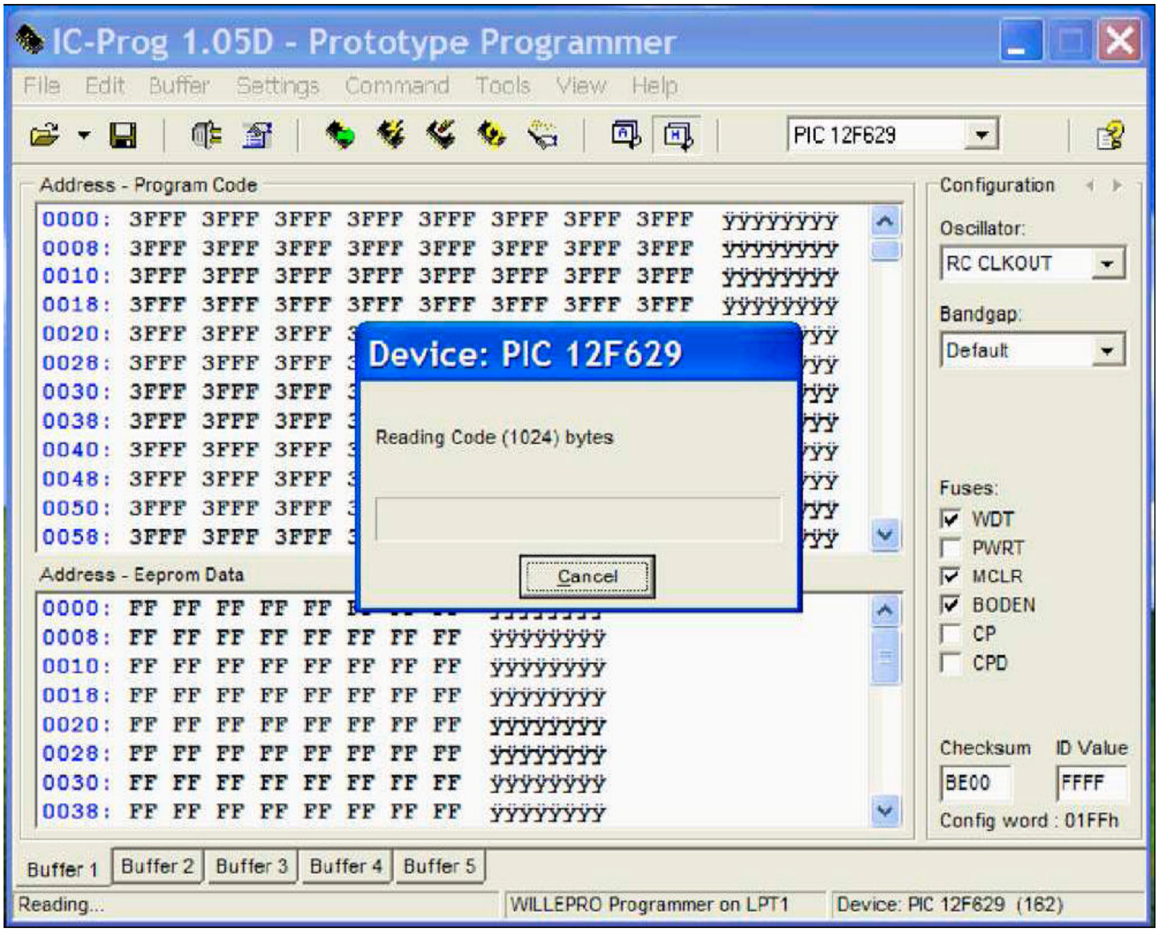
ID Value: FFFF

Config word : 3FFFh

WILLEPRO Programmer on LPT1

Device: PIC 16F628A (152)

Your screen should now look like this. We now need to read the chip, press the button as indicated by the red arrow.



```
0000:  3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF   ÿÿÿÿÿÿÿÿ
0008:  3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF   ÿÿÿÿÿÿÿÿ
0010:  3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF   ÿÿÿÿÿÿÿÿ
0018:  3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF   ÿÿÿÿÿÿÿÿ
0020:  3FFF 3FFF 3FFF 3                                ÿÿ
0028:  3FFF 3FFF 3FFF 3                                ÿÿ
0030:  3FFF 3FFF 3FFF 3                                ÿÿ
0038:  3FFF 3FFF 3FFF 3                                ÿÿ
0040:  3FFF 3FFF 3FFF 3                                ÿÿ
0048:  3FFF 3FFF 3FFF 3                                ÿÿ
0050:  3FFF 3FFF 3FFF 3                                ÿÿ
0058:  3FFF 3FFF 3FFF 3                                ÿÿ
```

```
0000:  FF FF FF FF FF F
0008:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0010:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0018:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0020:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0028:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0030:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0038:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
```

Device: PIC 12F629

Reading Code (1024) bytes

Oscillator: RC CLKOUT

Bandgap: Default

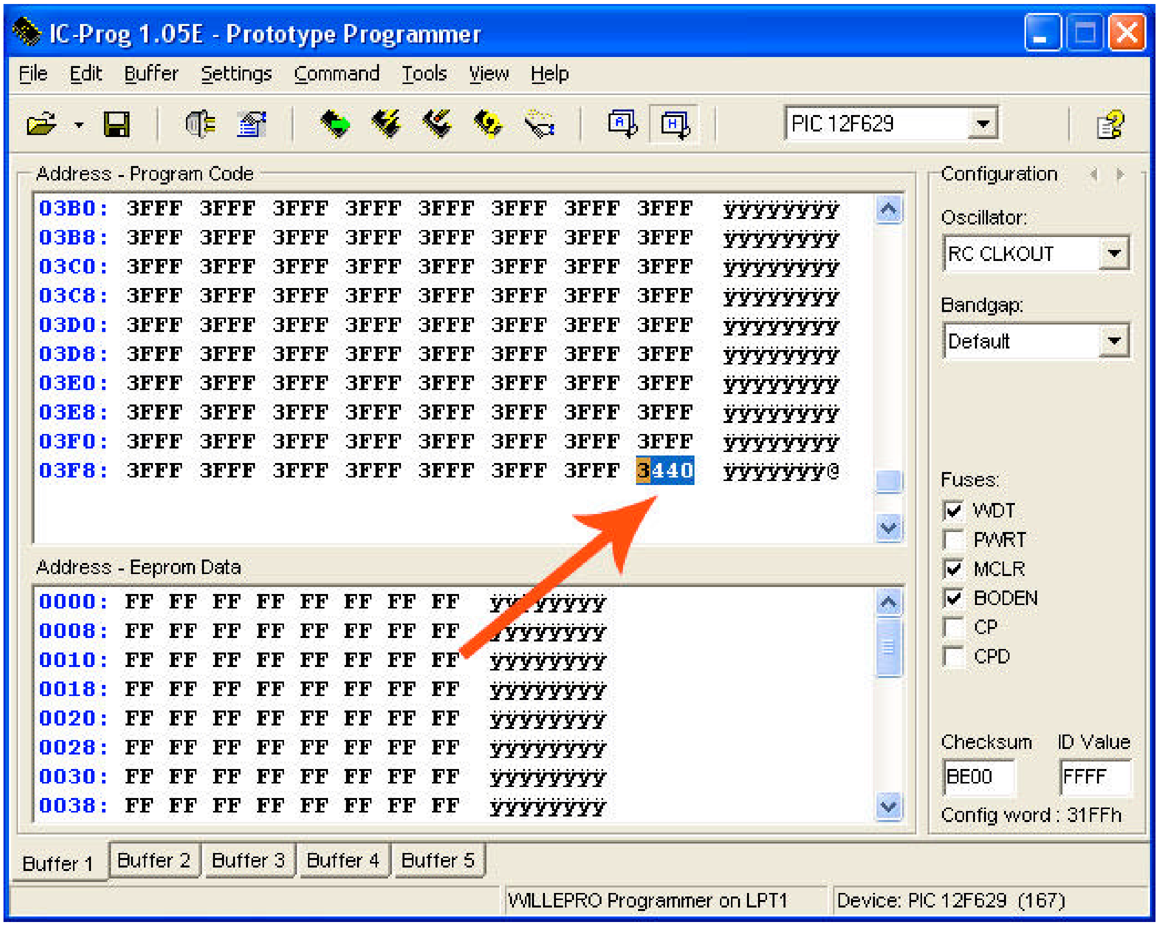
Fuses:
☑ WDT
☐ PWRT
☑ MCLR
☑ BODEN
☐ CP
☐ CPD

Checksum: BE00 ID Value: FFFF

Config word : 01FFh

Reading... | WILLEPRO Programmer on LPT1 | Device: PIC 12F629 (162)

The chip will now be read as shown above.



Address - Program Code

```
03B0:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03B8:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03C0:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03C8:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03D0:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03D8:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03E0:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03E8:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03F0:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF   ÿÿÿÿÿÿÿÿ
03F8:  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3FFF  3440   ÿÿÿÿÿÿÿ@
```

Address - Eeprom Data

```
0000:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0008:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0010:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0018:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0020:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0028:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0030:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
0038:  FF  FF  FF  FF  FF  FF  FF  FF   ÿÿÿÿÿÿÿÿ
```

Oscillator: RC CLKOUT

Bandgap: Default

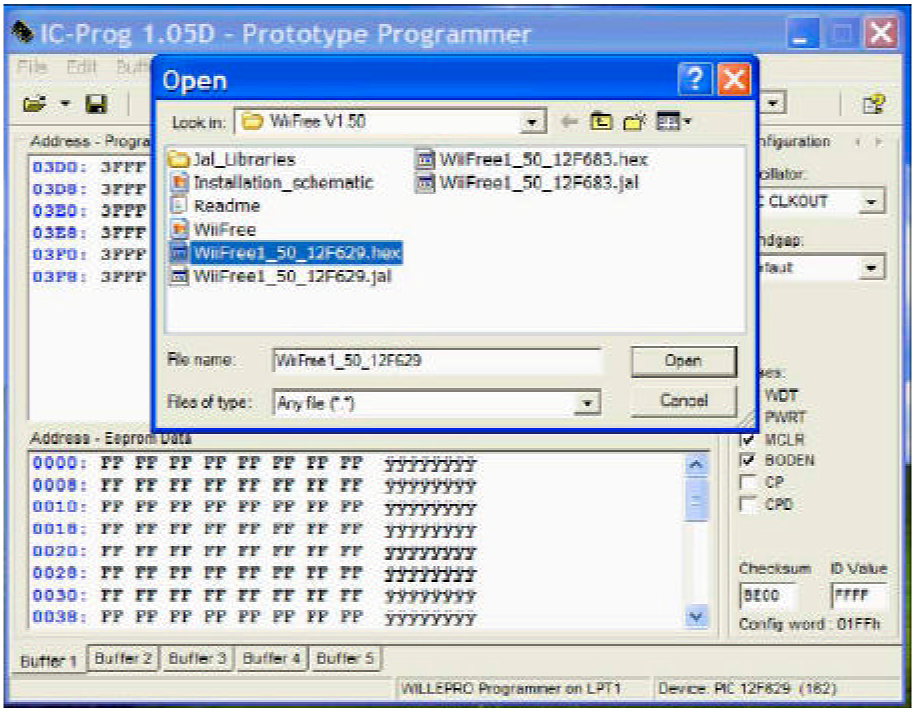
Fuses:
☑ WDT
□ PWRT
☑ MCLR
☑ BODEN
□ CP
□ CPD

Checksum: BE00
ID Value: FFFF
Config word : 31FFh

WILLEPRO Programmer on LPT1
Device: PIC 12F629 (167)

*************IMPORTANT*************

In the “Address – Programme Code” box, scroll down and the last value is the PIC chips Oscillator value (as indicated by the red arrow) and is pretty much unique, out of 100 chips few will have the same value, it is imperative that this value is wrote down somewhere, setting the wrong value or blank value will render the chip defective. You can program the value back again, providing that you know it.



Look in: WiiFree V1.50

- Jal_Libraries
- Installation_schematic
- Readme
- WiiFree
- WiiFree1_50_12F629.hex
- WiiFree1_50_12F629.jal
- WiiFree1_50_12F683.hex
- WiiFree1_50_12F683.jal

File name: WiiFree1_50_12F629

Files of type: Any file (*.*)

Address - Progra

```
03D0:  3FFF
03D8:  3FFF
03E0:  3FFF
03E8:  3FFF
03F0:  3FFF
03F8:  3FFF
```

Address - Eeprom Data

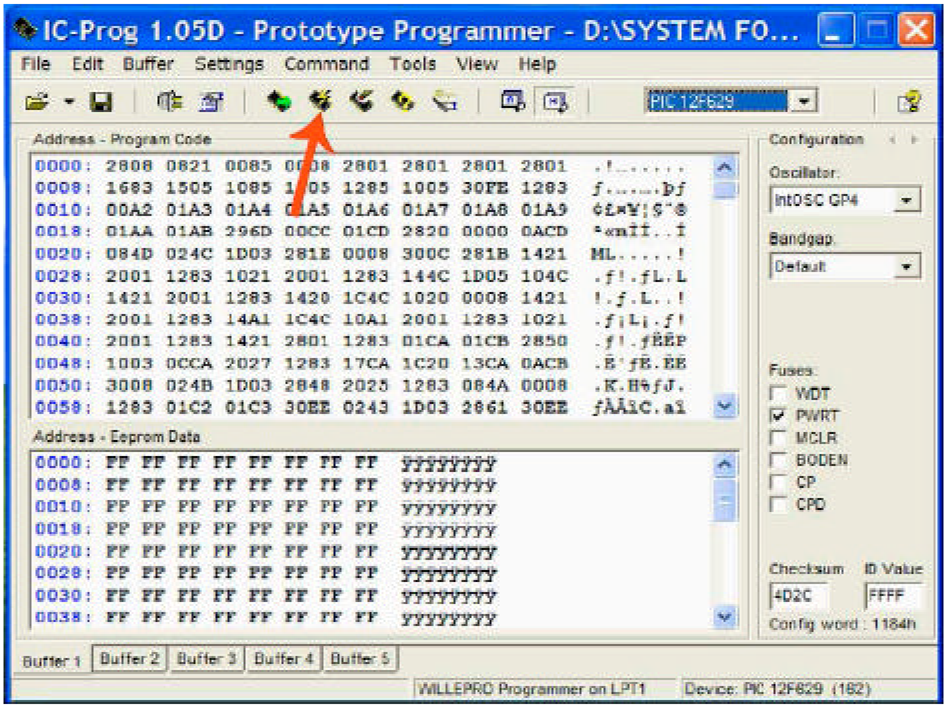
```
0000:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0008:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0010:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0018:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0020:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0028:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0030:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0038:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
```

nfiguration
cillator: CLKOUT
ndgap: fault
ses:
WDT
PWRT
☑ MCLR
☑ BODEN
☐ CP
☐ CPD

Checksum: BE00 ID Value: FFFF
Config word : 01FFh

WILLEPRO Programmer on LPT1 Device: PIC 12F629 (182)

We must now open the Hex file to be programmed. For this guide I am using the Wiifree 1.50 file. Open this file.



Address - Program Code

```
0000:  2808 0821 0085 0[illegible]08 2801 2801 2801 2801   .!......
0008:  1683 1505 1085 1[illegible]05 1285 1005 30FE 1283   ƒ.......Þƒ
0010:  00A2 01A3 01A4 [illegible]1A5 01A6 01A7 01A8 01A9   ¢£¤¥¦§¨©
0018:  01AA 01AB 296D 00CC 01CD 2820 0000 0ACD   ª«mÌÍ..Í
0020:  084D 024C 1D03 281E 0008 300C 281B 1421   ML......!
0028:  2001 1283 1021 2001 1283 144C 1D05 104C   .ƒ!.ƒL.L
0030:  1421 2001 1283 1420 1C4C 1020 0008 1421   !.ƒ.L..!
0038:  2001 1283 14A1 1C4C 10A1 2001 1283 1021   .ƒ¡L¡.ƒ!
0040:  2001 1283 1421 2801 1283 01CA 01CB 2850   .ƒ!.ƒÊËP
0048:  1003 0CCA 2027 1283 17CA 1C20 13CA 0ACB   .Ê'ƒÊ.ÊË
0050:  3008 024B 1D03 2848 2025 1283 084A 0008   .K.H%ƒJ.
0058:  1283 01C2 01C3 30EE 0243 1D03 2861 30EE   ƒÂÃîC.aî
```

Address - Eeprom Data

```
0000:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0008:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0010:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0018:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0020:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0028:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0030:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0038:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
```

Configuration

Oscillator: IntOSC GP4

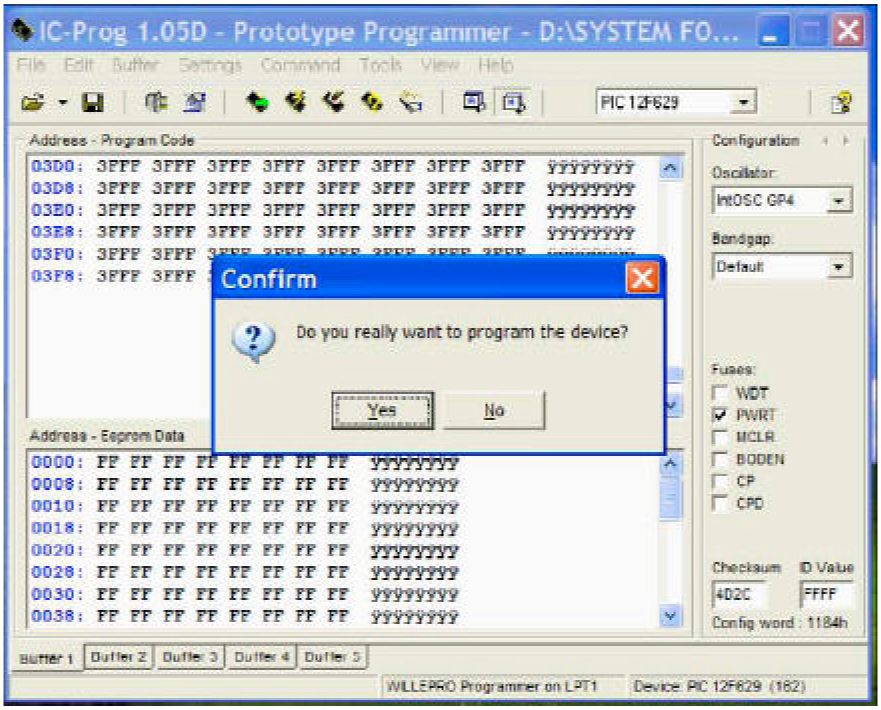
Bandgap: Default

Fuses:
☐ WDT
☑ PWRT
☐ MCLR
☐ BODEN
☐ CP
☐ CPD

Checksum: 4D2C ID Value: FFFF
Config word : 1184h

WILLEPRO Programmer on LPT1 Device: PIC 12F629 (182)

You should now be presented by the above. Press the “program all” button indicated by the red arrow.



IC-Prog 1.05D - Prototype Programmer - D:\SYSTEM FO...

PIC 12F629

Address - Program Code

```
03D0: 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF  ÿÿÿÿÿÿÿÿ
03D8: 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF  ÿÿÿÿÿÿÿÿ
03E0: 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF  ÿÿÿÿÿÿÿÿ
03E8: 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF 3FFF  ÿÿÿÿÿÿÿÿ
03F0: 3FFF 3FFF
03F8: 3FFF 3FFF
```

Confirm

Do you really want to program the device?

Address - Eeprom Data

```
0000: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0008: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0010: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0018: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0020: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0028: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0030: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
0038: FF FF FF FF FF FF FF FF  ÿÿÿÿÿÿÿÿ
```

Configuration

Oscillator: IntOSC GP4

Bandgap: Default

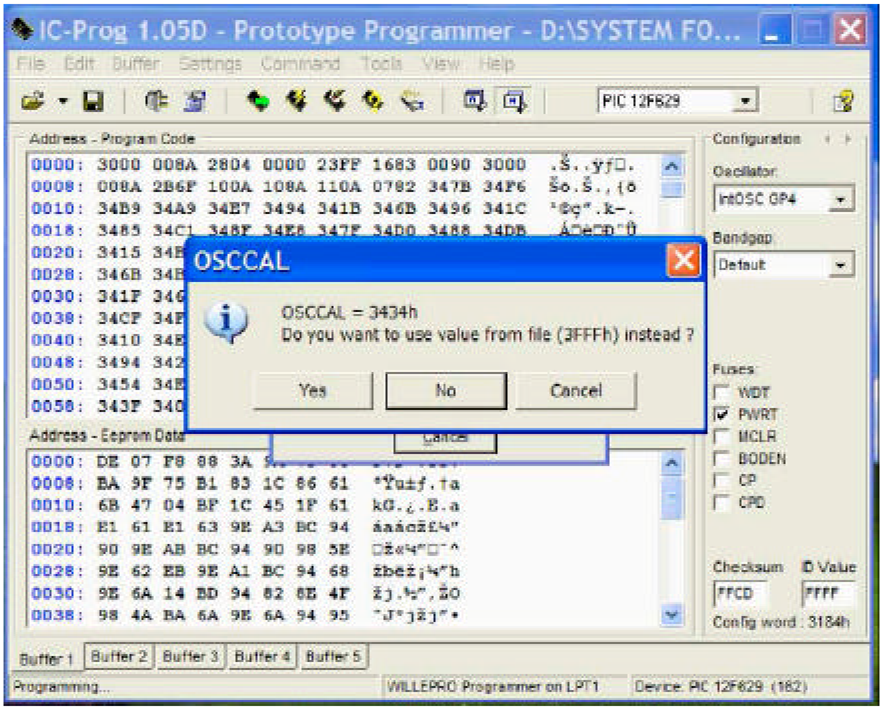
Fuses:
□ WDT
☑ PWRT
□ MCLR
□ BODEN
□ CP
□ CPD

Checksum: 4D2C   ID Value: FFFF

Config word : 1184h

WILLEPRO Programmer on LPT1   Device: PIC 12F629 (182)

You will be asked to confirm programming the device, select yes. It will now re-read the device.



IC-Prog 1.05D - Prototype Programmer - D:\SYSTEM FO...

PIC 12F629

Address - Program Code

```
0000: 3000 008A 2804 0000 23FF 1683 0090 3000  .Š..ÿƒ□.
0008: 008A 2B6F 100A 108A 110A 0782 347B 34F6  Šo.Š.,{ö
0010: 34B9 34A9 34E7 3494 341B 346B 3496 341C  ¹©ç".k–.
0018: 3485 34C1 348F 34E8 347F 34D0 3488 34DB  …Á□è□Ðˆ Û
0020: 3415 34B
0028: 346B 34B
0030: 341F 346
0038: 34CF 34F
0040: 3410 34E
0048: 3494 342
0050: 3454 34E
0058: 343F 340
```

OSCCAL

OSCCAL = 3434h
Do you want to use value from file (3FFFh) instead ?

Address - Eeprom Data

```
0000: DE 07 F8 88 3A
0008: BA 9F 75 B1 83 1C 86 61  ºŸu±ƒ.†a
0010: 6B 47 04 BF 1C 45 1F 61  kG.¿.E.a
0018: E1 61 E1 63 9E A3 BC 94  áaácž£¼"
0020: 90 9E AB BC 94 90 98 5E  □ž«¼"□˜^
0028: 9E 62 EB 9E A1 BC 94 68  žbëž¡¼"h
0030: 9E 6A 14 BD 94 82 8E 4F  žj.½",ŽO
0038: 98 4A BA 6A 9E 6A 94 95  ˜Jºjžj"•
```

Configuration

Oscillator: IntOSC GP4

Bandgap: Default

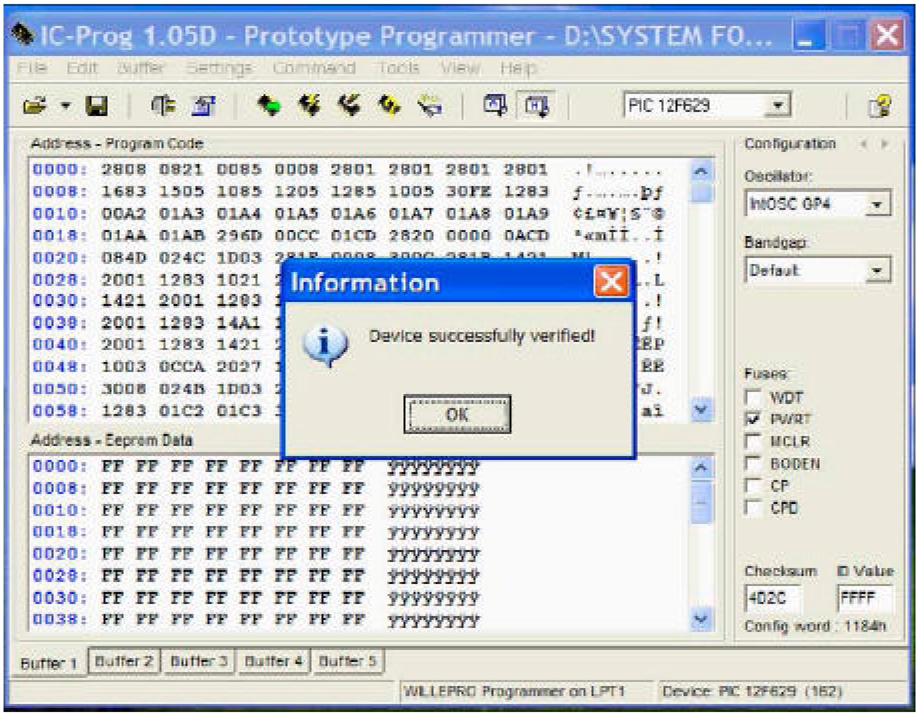
Fuses:
□ WDT
☑ PWRT
□ MCLR
□ BODEN
□ CP
□ CPD

Checksum: FFCD   ID Value: FFFF

Config word : 3184h

Programming...   WILLEPRO Programmer on LPT1   Device: PIC 12F629 (182)

You should now be presented with another option, you must select NO, else the OSC value will be overwritten. You can always manually re-write the OSC value if you make a mistake, which is why it is important to make a note of this value for each chip when working with them.



IC-Prog 1.05D - Prototype Programmer - D:\SYSTEM FO...

PIC 12F629

Address - Program Code

```
0000:  2808 0821 0085 0008 2801 2801 2801 2801   .!......
0008:  1683 1505 1085 1205 1285 1005 30FE 1283   ƒ......þƒ
0010:  00A2 01A3 01A4 01A5 01A6 01A7 01A8 01A9   ¢£¤¥¦§¨©
0018:  01AA 01AB 296D 00CC 01CD 2820 0000 0ACD   ª«mÌÍ..Í
0020:  084D 024C 1D03                                  ..!
0028:  2001 1283 1021                                  ..L
0030:  1421 2001 1283                                  ..!
0038:  2001 1283 14A1                                  ƒ!
0040:  2001 1283 1421                                  EP
0048:  1003 0CCA 2027                                  EE
0050:  3008 024B 1D03                                  J.
0058:  1283 01C2 01C3                                  ai
```

Information

Device successfully verified!

Address - Eeprom Data

```
0000:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0008:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0010:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0018:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0020:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0028:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0030:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
0038:  FF FF FF FF FF FF FF FF   ÿÿÿÿÿÿÿÿ
```

Configuration

Oscillator: IntOSC GP4

Bandgap: Default

Fuses:

□ WDT
☑ PWRT
□ MCLR
□ BODEN
□ CP
□ CPD

Checksum: 4D2C

ID Value: FFFF

Config word : 1184h

WILLEPRO Programmer on LPT1

Device: PIC 12F629 (162)

That’s it; you can now remove the chip and place it into your socket which you have soldered into your Wii.