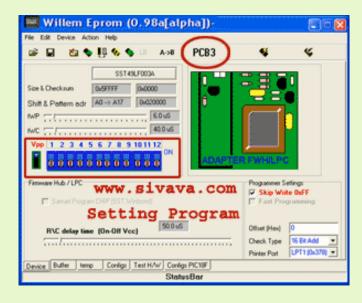
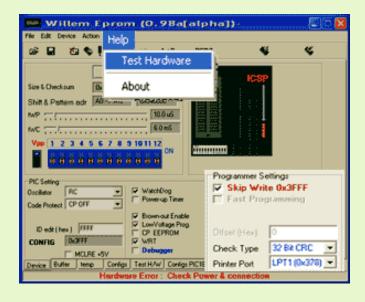


Willem's EPROM Program Operating Manual (English language)



Using EPROM ,EEPROM,FLASH,PIC Program

Before put the IC in the 'Willem' board, you have to run software fist for cutting Vdd and Vpp which will supply to EPROM. You can check Willem Eprom board connecting by using tab bar **Test H/W** on button of the panel or using menu **Help -> Text Hardware**



• Selecting the IC number that you want to program by using menu **DEVICE** or click the button

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File Edit Device Action Help		File Edit Device Action Help	
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Vpp 1 2 3 4 5 5 7 SRAM DS12:xx/TimerKeeper Pirmware HJ8 / LPC Serial programming		Vpp 1 2 3 5 7 0 3 10 11 AVR Image: State	
PCSeting Dicitiator RC Code Protect CP OFF ID odt (hex) FFFF ID odt (hex) FFFF	Ship Write Galiff Ship Write Galiff Fatt Pacy america and deal	PC Setting Decidator PC Por Code Protect CP OFF P Por D edit(her) PFF Code Protect POF Por D edit(her) PFF Por D edit(her) PFF Por Code Potect Potect	F 0
CONFIG DEFIF CONFIG	ter Pot UPT1 (\$k378)	CONFIG 04937 F 0F 0 CONFIG 04937 F 0F 0 F MDLRE +5V F 0ebr 29-VF/49LF/SOM Device 8V/m temp Config: Test HX Hardware Error: Check Power & connection	191C - 3x3780 -

• For theIC type 8-pin,18-pin setting DIPswitch doesn't need, but for the IC type 28-pin, 32-pin you have to set the DIPswitch same as the DIPswitchsetting picture. Programming the IC FLASH Memory 28C 29F 29C040 4 Mbit you have to set the jumber, which locates on left side

Programming **the IC FLASH Memory 28C,29F,29C040 4 Mbit** you have to set the jumber, which locates on letf side of the DIPswitch, to the position 2-3(Default position is 1-2).

🚥 Willem Eprom (O. 98a[alpha])- 🔤 🗋 🔀				
File Edit Device Action Help				
86A 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PC83		4	
PIC15FE71 Size & Checksum Dx7FF Dx62501F009 Shift & Pattern adr AU # A12 Dx6450000 N/P F F Buddens VP 1 2 3 4 5 6 7 8 9101112 Vp0 1 2 3 4 5 6 7 8 9101112 I 1 1 1 1 1 1 1 0 0 0 1				
Oscillator FIC WatchDog Code Protect CP OFF		Fogannie Si Ship Writ Fost Pro-	o Or3FFF	
ID edt(hex) FTTT C EDemoutEnable CONFIG DoftTT: CONFIG DoftTT: CONFIG CONFIG DoftTT: CONFIG DoftTT: CONFIG DoftTT: CONFIG CONFIG DoftTT: CONFIG CONFIG: CONFIG CONFIG: CONFIG CONFIG: CONFIG CONFIG: CONFIG CONFIG: CONFIG: CONFIG CONFIG: CON		Ottoot 91003 Check Type Printer Part	0 2284 CPC • UPT1 (04078) •	
Desice Buter temp Configs Test H/W Configs PICISE Hardware Error : Check Power & connection				

• When you has finished the file, then select menu **ACTION** (as the picture below) or click icon on toolbar menu.

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PI Size & Checkson Shift & Pottern odd: MP MC MC MC PIC Setting Disclator Code Postect CP OFF TD edd(hes) PTFF	Read Program/Test RAM Compare/Verify Blank Check Erase 28/29/49/89/90/PIC Get ID 28/29/49/89/90 Clear Buffer Invert DATA RomIdent Swap BYTE Move A to B address	Ctrl+R Ctrl+P Ctrl+C Ctrl+B Ctrl+E Ctrl+E Ctrl+I		
CONFIG 0.0F37	IV WRT IV Debugger	Check Type 2204 CPC = Printer Post UPT1 (2x376) =		
Device Dutter temp Configs Test H/W Configs PICISF Heardware Error: Check Power & connection				

Toolbar Menu and Action Menu Description				
👟 Read Chip	Reads program from the IC			
Vrogram/TestRAM	Writes program into the IC			
Compare/Verify	Compares the program in the IC with the program in buffer			
& Erase 28/29/49/89/90/PIC	Erases the program in the IC (* the IC number 27C has to erase by UV light)			
& CheckEmpty	Checks the IC is empty (0xFF)			
Get ID 28/29/49/89/90/PIC	Reads the ID code from CHIPS (For some devices when the software reads the ID code, it will set parameters to the CHIPS automatically)			
Boot Block Lockout	Protects the data from rewriting. This data can not earase by Erase command. (Make sure you don't want to change this data anymore)			
	Mode 1:	No protection		
Lock Modes 89C	Mode 2:	Protects the program in the chip from reading of comand MOVC from outside memory, but it doesn't protect verification from the machine which's able to programming		
	Mode 3:	same mode 2 and protects verification		
	Mode 4:	same as mode 3 and protects the chip from out side memory programming		
ClearBuffer (0xFF)	Erases program from buffer = 0xFF			
CheckSumBuffer	Calculates CheckSum in buffer			

Programming PIC you have to set more parameters as the picture below.

🚥 Willem Eprom (0, 98a[alpha])- 🛛 🔤 🖸 🔀				
File Edit Device Action Help				
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Shift & Pattern adr 40+2 A12 0444	2017/09 000/26 L0 =6 22 CN			
Oscillator RC Code Protect CP OFF	₩ WatchDog Power-up Timer	Programmer Settings Skip Write Gu3FFF Fort Pragramming		
ID edk (hex.) FFFF CONFIG Dx3FFF MCLRE +5V	Øiown-out Enable ✓ Biown-out Enable ✓ LowVoltage Prog. ✓ CP EEPROM ✓ WRT ✓ WRT ✓ Debugger	Citizet 34ava D. Check Type 22 88 CPC - Private Port UPT1 (5278) -		
Hardware Error : Check Power & connection				

Programing Data (EPROM, EEPROM, FLASH, PIC)

- 1. Select device type (Menu Device)
- 2. Set the DIP switch (see window STATUS)
- 3. Load program file (Menu File -> Load xxx)
- 4. Insert the IC to the ZIF Socket or the DIP socket
- 5. For:
 - Eprom 27Cxxx,27xxx make sure you earase all data (UV erase) by use (Menu Action -> Checkempty)
 - Flash, Eeprom erase data by (Menu Action -> Erase 28x, 29x, 49x, AT89x)
 - PIC check parameter setting first by use (Menu Progsettings)
- 6. Program (Menu Action -> Program)

Reading Data (EPROM, EEPROM, FLASH, PIC)

- 1. Select device type (Menu Device)
- 2. Set the DIP switch (see window STATUS)
- 3. Insert the IC to the ZIF Socket or the DIP socket
- 4. Read data (Menu Action -> Read)
- 5. Save data, You can save as two types 1. binary(.bin) or 2. Intel hex (.hex) (Menu File ->Save xxx)

Programming MCS-51 (Adapter board is needed

- 1. Select pin type (40 or 20pin) and number program (Menu Device)
- 2. Set the DIP switch (see window STATUS)
- 3. Insert the IC to Adaptor board
- 4. Select device type. For ATMEL chip you can read the ID code and set parameters automatically (auto select)
- 5. Load program file (Menu File -> Load xxx)
- 6. Erase old program existing in the IC (Menu Action -> Erase 28C,29C,AT89)
- 7. Burn program (Menu Action -> Program)
- 8. Protect your data (protect from copying) (Menu Action ->Lock Bit)

TIPS

Programming AT89C55WD is needed voltage at least 5.6V Programming data into the IC (follow ATMEL specification, it guarantees at 6.5 V) If voltage less than 5.6V, it maybe can't program some lot of CHIPs. It can solve this promblem by attaching one diode at the second pin of the IC 7805. The voltage that supply to the IC will be 0.6+0.6+5 = 6.2 V and the voltage that supply other chips will be increase 5.6 V. When you have finished programming, you should move the added diod out to decrease voltage to 5.6V. (For PCB model PB3B We added more jumper for select voltage 5V, 5.6V, 6.2V)

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