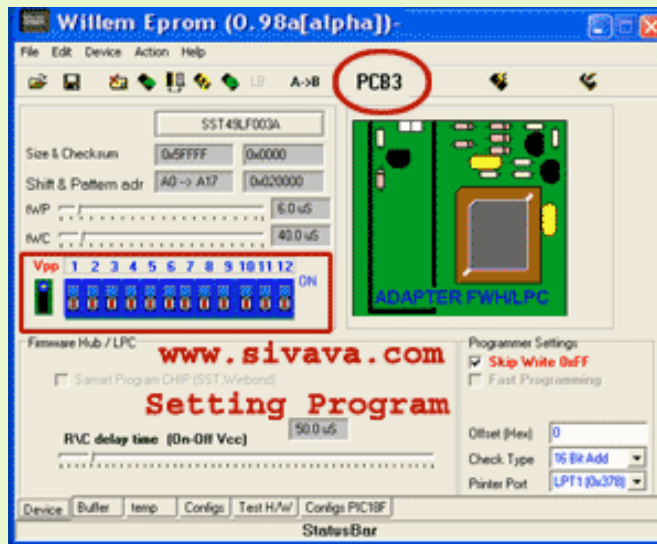


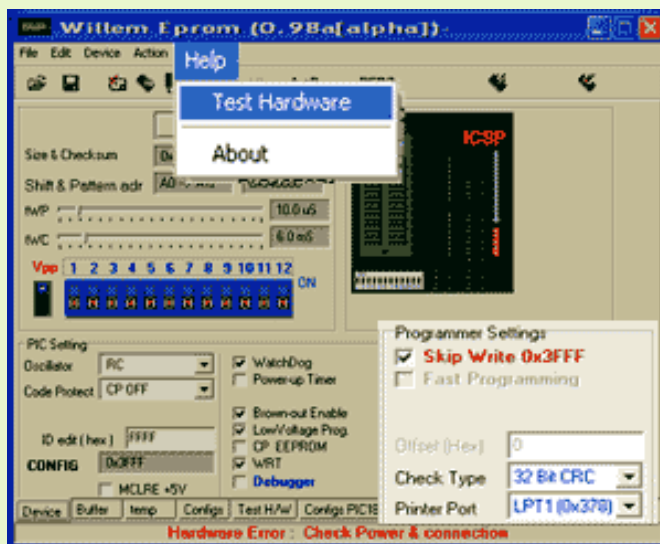


Willem's EPROM Program Operating Manual ([English language](#))

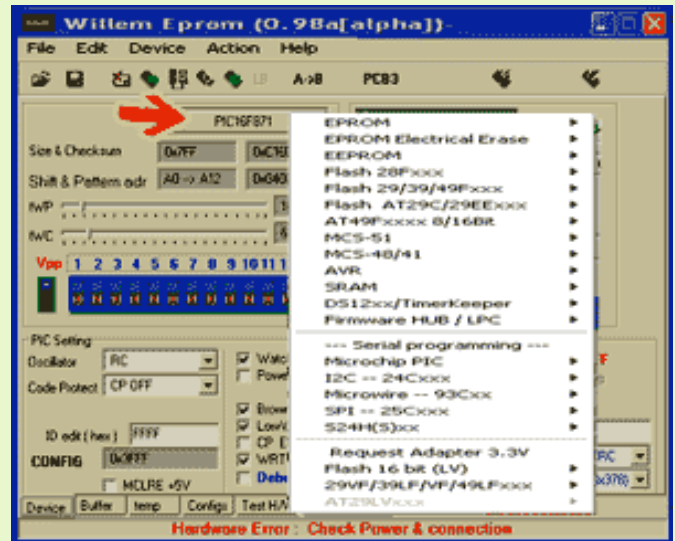
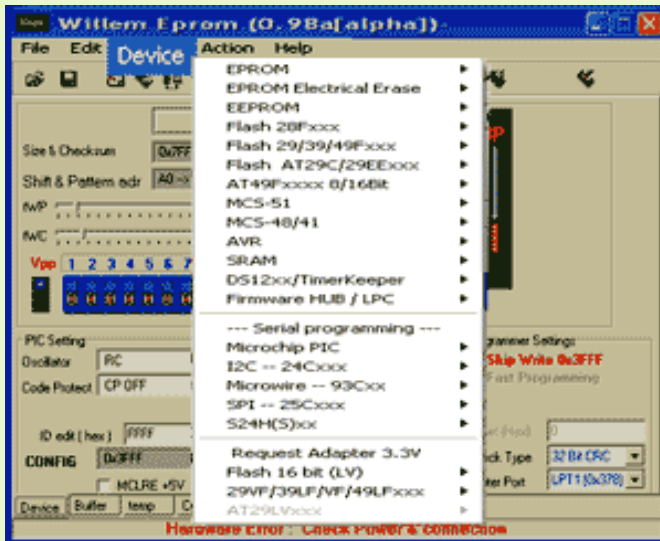


Using EPROM ,EEPROM,FLASH,PIC Program

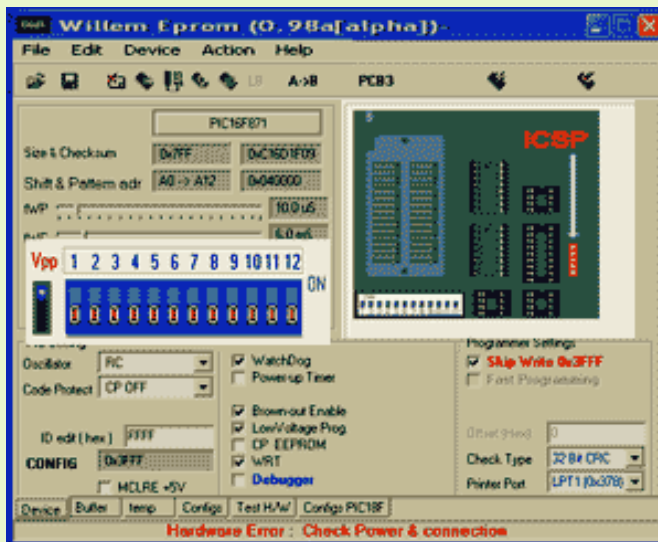
- Before put the IC in the 'Willem' board, you have to run software first for cutting Vdd and Vpp which will supply to EPROM. You can check Willem Eprom board connecting by using tab bar **Test H/W** on button of the panel or using menu **Help -> Text Hardware**



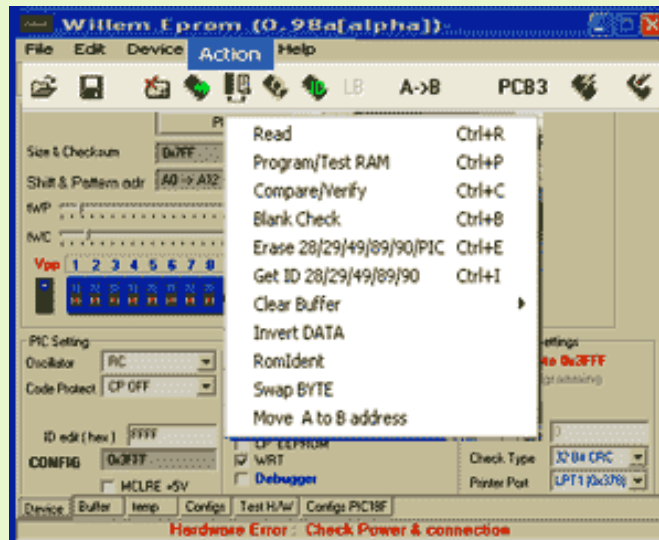
- Selecting the IC number that you want to program by using menu **DEVICE** or click the button









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



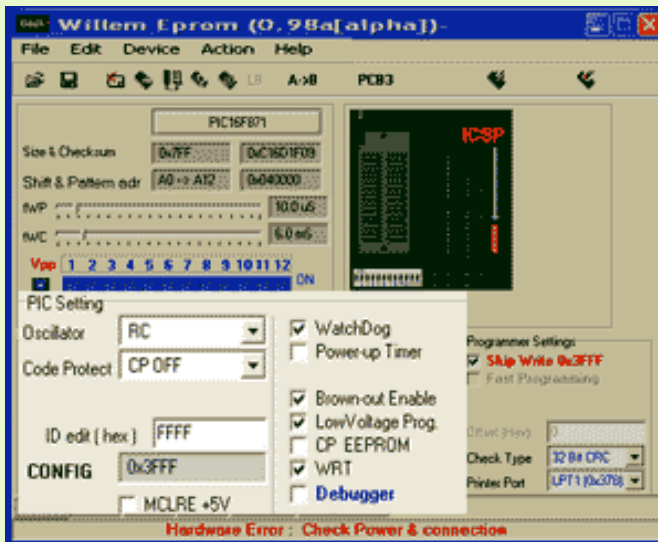
- When you has finished the file, then select menu **ACTION** (as the picture below) or click icon on toolbar menu.



Toolbar Menu and Action Menu Description

 Read Chip	Reads program from the IC
 Program/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 erase by Erase command. (Make sure you don't want to change this data anymore)
Lock Modes 89C	<p>Mode 1: No protection</p> <p>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</p> <p>Mode 3: same mode 2 and protects verification</p> <p>Mode 4: same as mode 3 and protects the chip from outside memory programming</p>
 ClearBuffer (0xFF)	Erases program from buffer = 0xFF
CheckSumBuffer	Calculates CheckSum in buffer

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



Programming 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:
 - o Eprom 27Cxxx,27xxx make sure you erase all data (UV erase) by use (Menu Action -> Checkempty)
 - o Flash,Eeprom erase data by (Menu Action -> Erase 28x, 29x, 49x, AT89x)
 - o 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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