

***MC68HC705V8, MC68HC705V12
EEPROM Programming Tool***

***ODESSA
2002***

1.1 What You'll Need

The following checklists describe items that are shipped with your programming tool and any additional items that you need to use this programming tool.

Hardware checklist

Host	-A 32-bit x86 based or Pentium PC with a free LPT (Printer port), a hard-disk system
Memory	-Minimum 16 Mbytes
Display	-Color VGA display recommended
Power supply	-A 12-volt/300 mA linear power supply source
Cable	-An DB25 "straight-thru" cable

Software checklist

OS	-MS-Windows (Win95, Win98, Win2000)
Software tool	-ETL HC705V12 control software

Unpacking the package

Contents:	-MC68HC705V8/V12 programmer board -25-pin "straight-thru" cable - ETL CD with control software
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1.2 Installing the Programmer Tool

The programmer tool is designed to accept 2 different types of MC68HC705V family micro-controllers derivatives (IC s), which fit of these devices: MC68HC705V8 | MC68HC705V12.

Before installation the programmer tool, setup ETL HC705V12 software on the PC, follow to wizard prompt.

To install the programmer tool, follow these steps:

- 1) Insert a explorer IC into Programmer toll according with 1-st key position, make sure that IC installed correct.
- 2) Connect a LPT cable to the 25-pin connector on the programmer tool to a LPT (1,2) port on the PC.
- 3) Connect the power supply source according with correct polarity (an external 12 V DC power supply source is required).
- 4) Turn ON power supply source, make sure that LED1 flashing few seconds and stop (light colour GREEN continuously).
- 5) Start HC705V12 control software.
- 6) Click "Device" button first (see Figure 1) and wait when auto detect is completed (See Figure 2).
- 7) Click on inlay "Program Sequence", "Read Sequence" (see Figure 2) and push operation buttons on your choice "Read", "Erase", "Program", "Verify" (See Figure 3).
- 8) Press "Start" button to begin operation (See Figure 3).

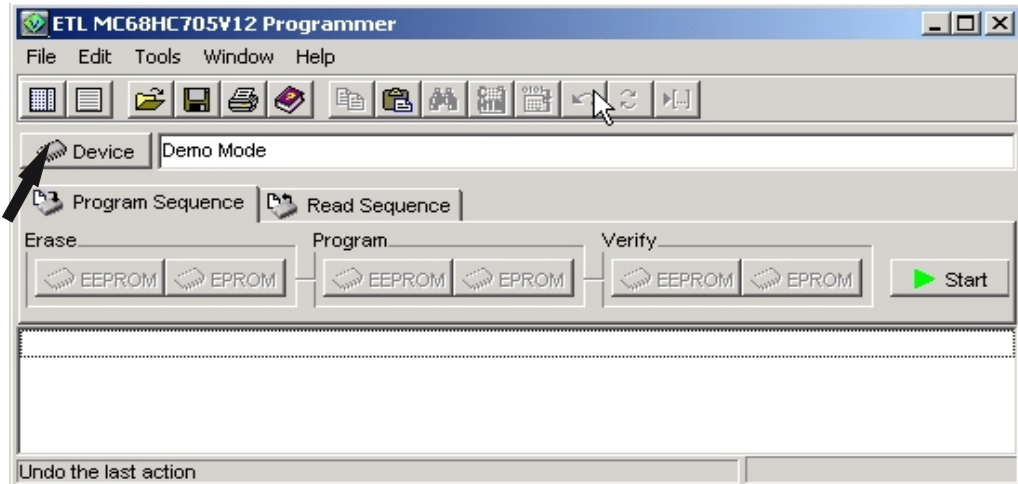


Figure 1 (Select Device)

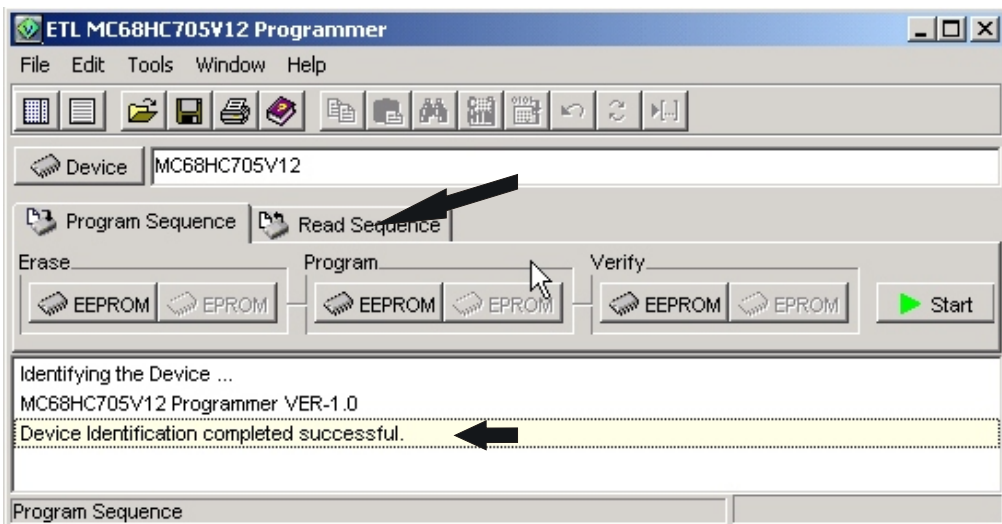


Figure 2 (Identification completed)

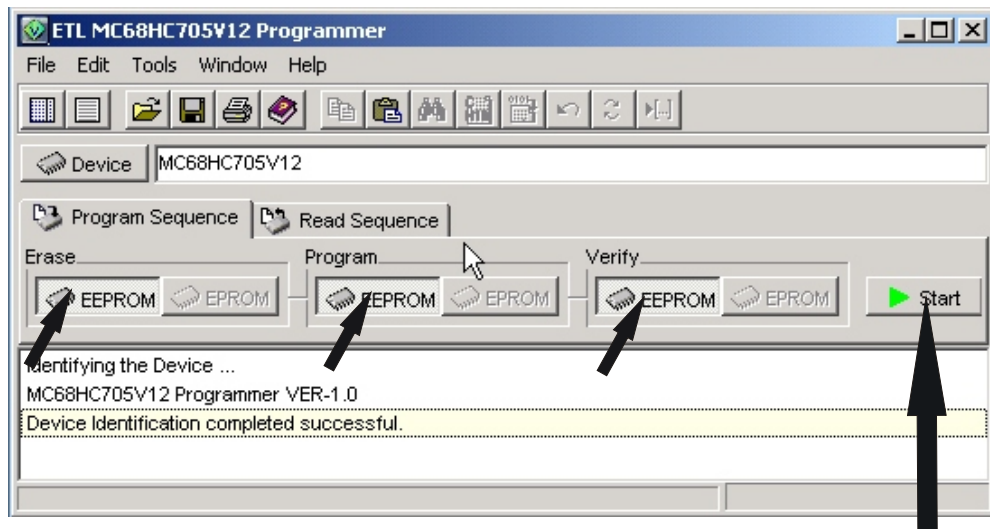


Figure 3 (Operation buttons)

Begin operation

9) Click Editor Button for preview a dump contents and edit data in case of necessary (see Figure 4).

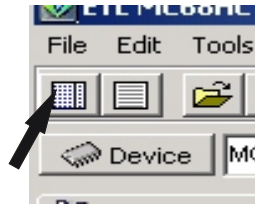


Figure 4 (Editor button)

LED REPORT:

- 1) LED1 appear ORANGE colour continuously:
 - IC not inserted
 - Bad contact in socket (see Figure 5)
- 2) LED1 appear RED colour continuously:
 - Service mode entered
- 3) LED1 fast flashing GREEN colour:
 - IC identification in progress
 - "Write" or "Read" operation in progress

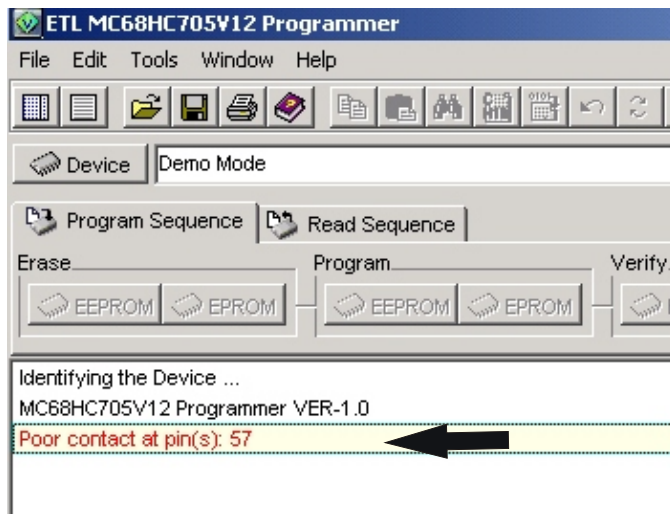


Figure 5 (Error: pure contact)

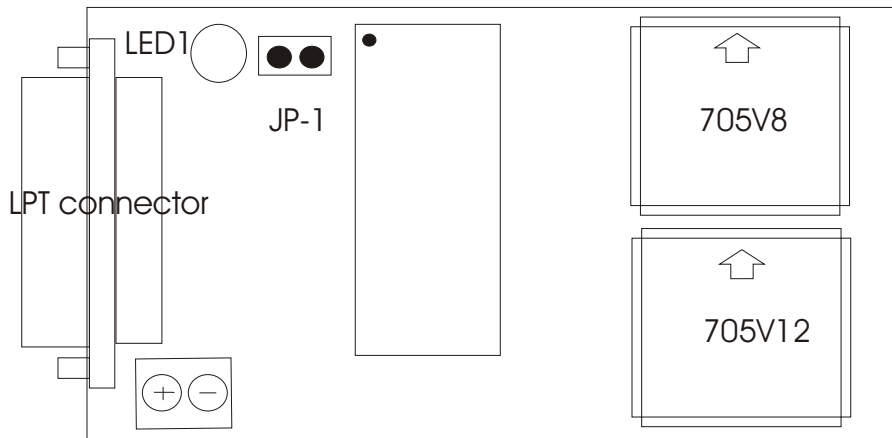
CAUTION:

- Don't insert two IC's into sockets at the same time
- Don't mount P1 and P2 jumpers (reserved for test needs)
- Don't forget unmount Jp1 jumper before hardware update

Warranty statement: ETL warrants that Product delivered shall conform to applicable. Report any defects for a 45 days period from the applicable date of invoice.

APPENDIX 1:

Figure 6: Programmer board layout



Power supply connector

APPENDIX 2:

Supported Microcontrollers:

- MC68HC705V12 (mask set 0H24M)
- MC68HC705V8 (mask set 4F82W)

APPENDIX 3:

Troubleshooting the programmer:

If you should have some difficulties when programming a 705V... part which is inserted into sockets such as incorrect data reading or writing - click menu button "Tools" first, next click "LPT port Options" button then set LPT base address, Speed and Ready pin settings to resolve the problem.

If you should have some difficulties with control software such as disappear progress bar, Fonts changes or other click menu button "Tools" first, next click "Reset to default" button then return installation-specific settings.