PRINCO DDR3-1800 user guide and testing for ASUS M4A88TD-V Motherboard

AMD 965 3.40G

Part I：Standard test

It’s the easiest way to enjoy overclock benefit by using PRINCO DDR3-1800 DIMM board

How to use?

0. Clear BIOS to mainboard initial setting
1. Enter BIOS setup and [Ai Tweaker] menu
2. Enter [Ai Overclock Tuner] item and select [Manual]
3. Select [CPU/HT Reference Clock (MHz)] item，and increase to higher Base clock rate (ex:225). Then select [DRAM Frequency] item，and set the DDR3 memory to higher clock rate (ex:1800MHz). Don’t forget setting [CPU Ratio] item to suitable ratio (ex:15.0)

   (In this case we only focus on memory over clocking, not CPU)
4. Select[DRAM Voltage] item , and set the value to [1.60500]

Step 1 : Select " Ai Tweaker "

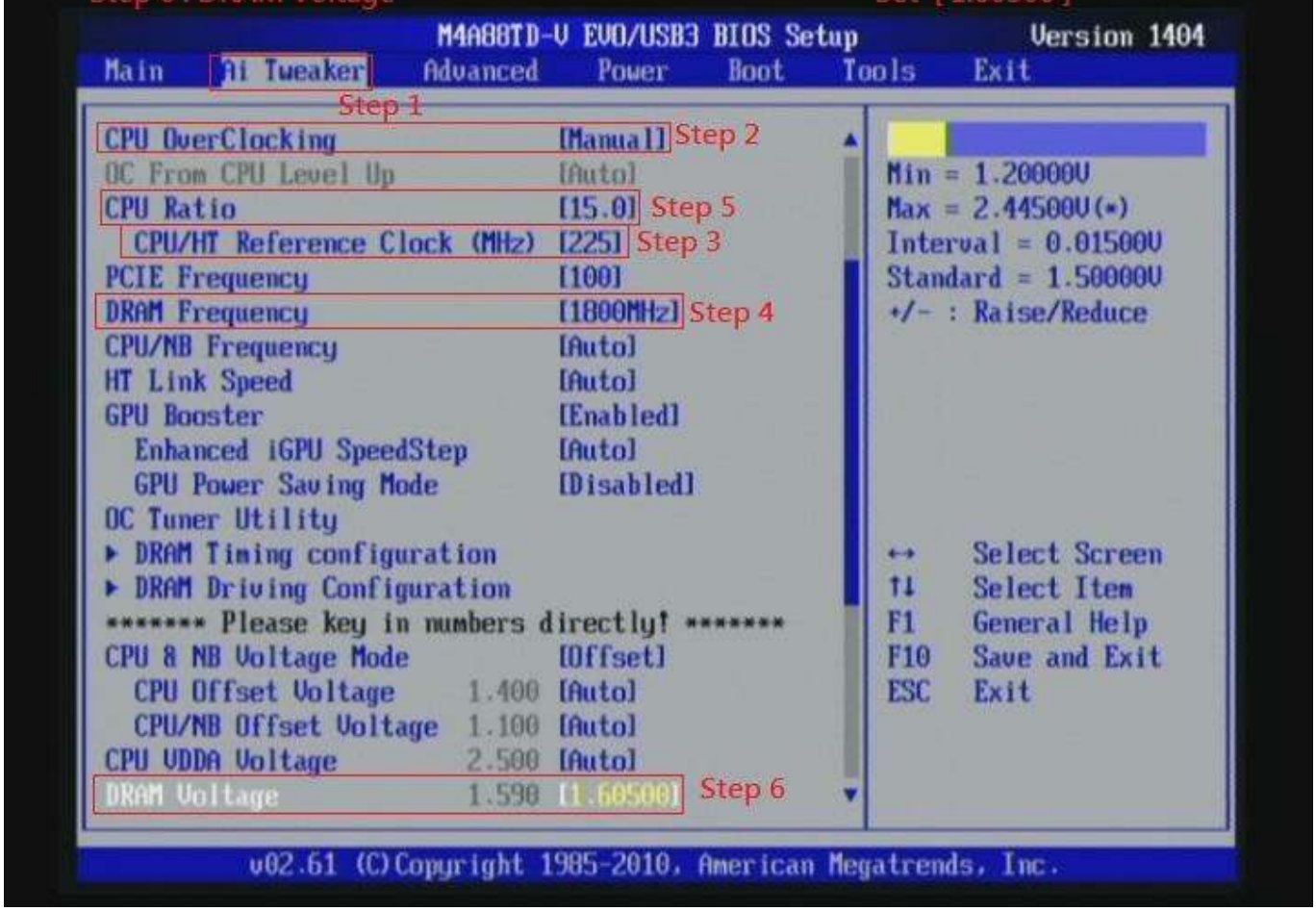
Step 2 : CPU Overclocking — Set [Manual]

Step 3 : CPU/HT Reference Clock (MHz) — Set [225]

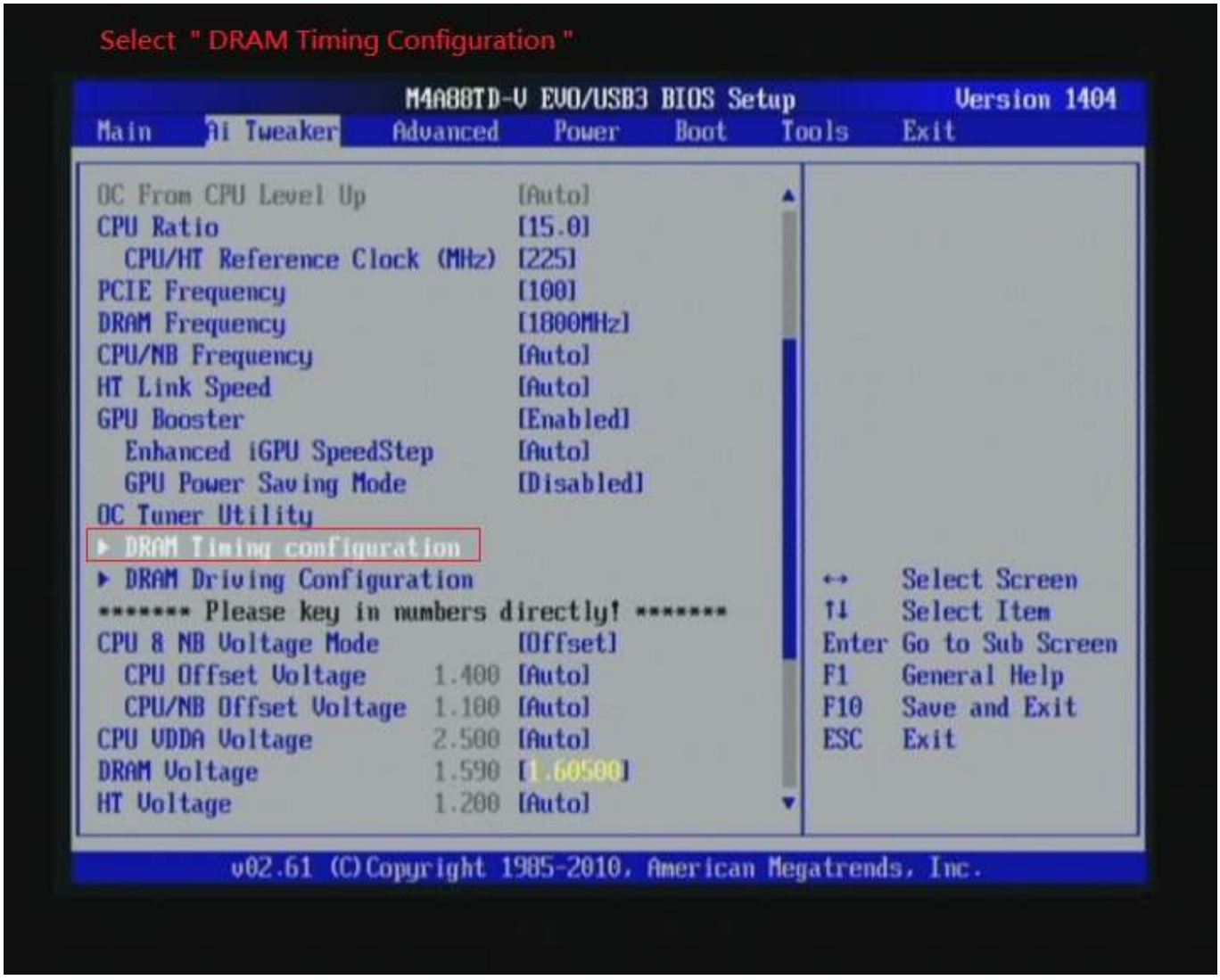
Step 4 : DRAM Frequency — Set [1800MHz]

Step 5 : CPU Ratio — Set [15.0]

Step 6 : DRAM Voltage — Set [1.60500]



5. Enter [DRAM Timing Configuration] item



6. set [DRAM CAS# Latency] item to [8 CLK]

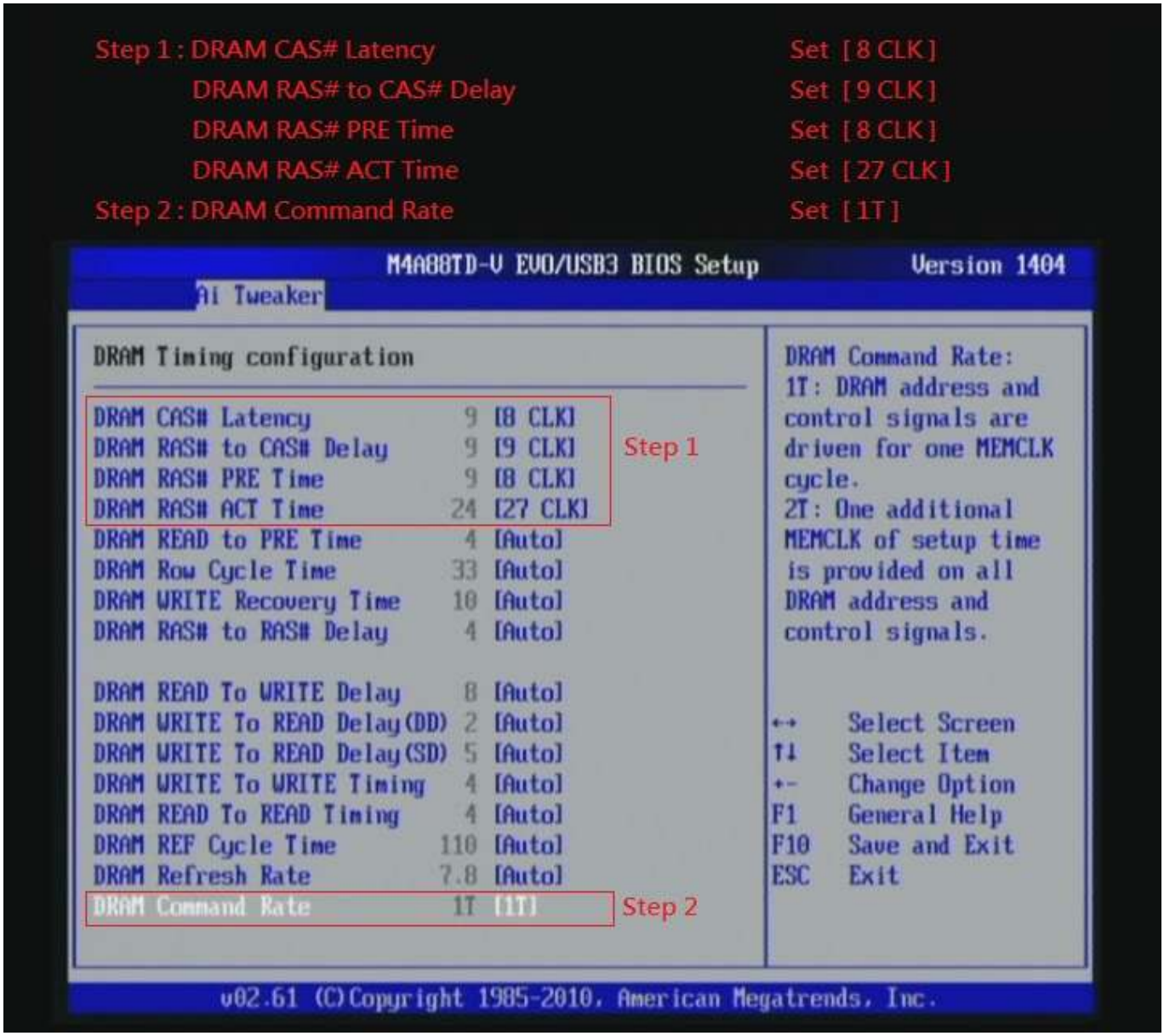
   set [DRAM RAS# to CAS# Delay] item to [9 CLK]

   set [DRAM RAS# PRE Time] item to [8 CLK]

   set [DRAM RAS# ACT Time] item to [27 CLK]

   set [DRAM Command Rate] item to [1T]

   then return to previous to [Ai Overclock Tuner] menu

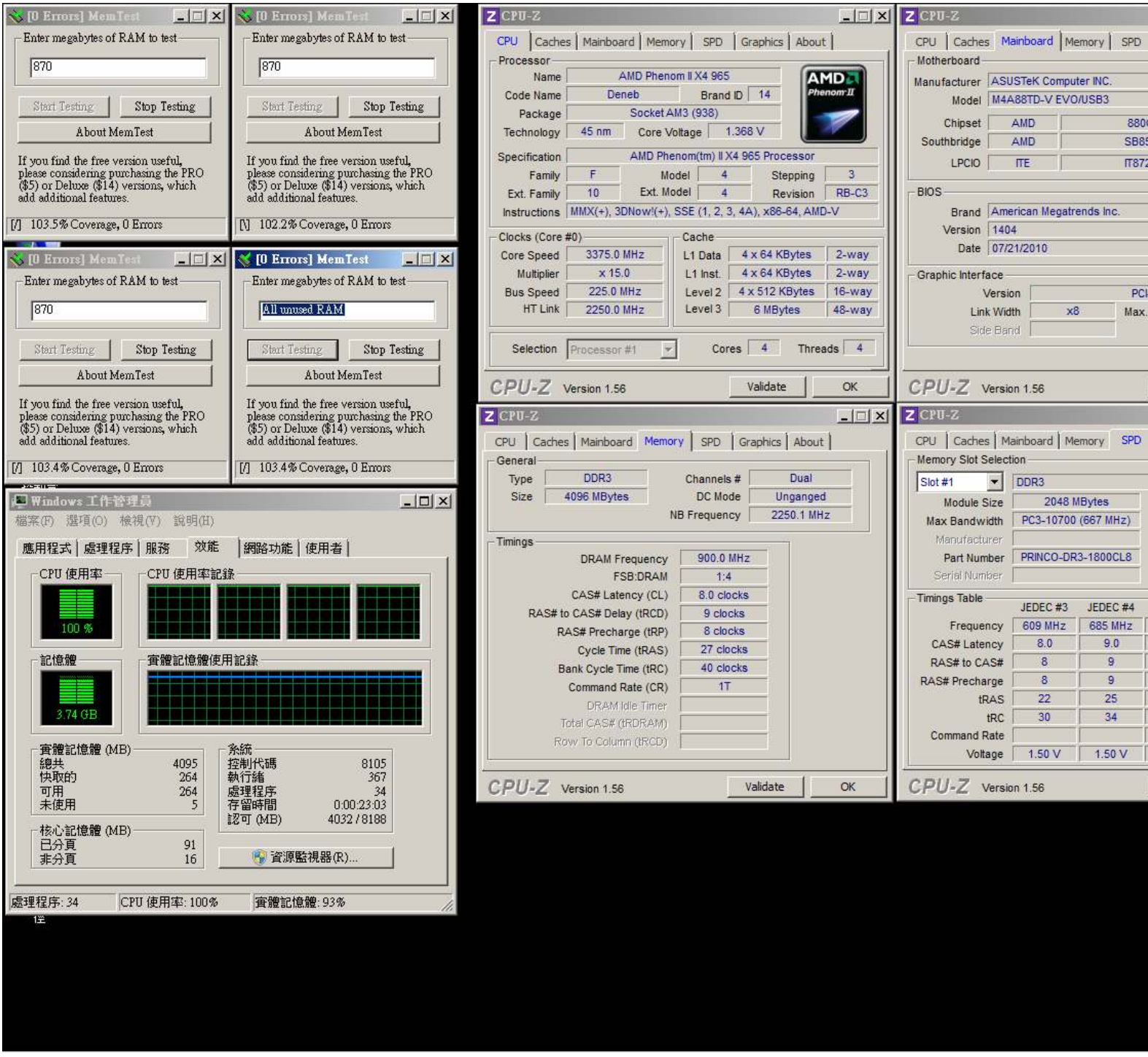


7. Save BIOS changes [F10] and exit

Test result?

In order to demonstrate the performance and stability of PRINCO DDR3-1800 DIMM board, We use the strictest stress testing, that is, multi-core MemTest in window 7.

(Data rate：900.0*2=1800,　timing：8, 9, 8, 27,　multi-core test => pass!)



Advanced Overclocking and Testing

Part II：Heavy test

If you want to know the potential of PRINCO DDR3-1800? Following are step-by-step howto.

How to use?

0. Clear BIOS to mainboard initial setting
1. Enter BIOS setup and [Ai Tweaker] menu
2. Enter [Ai Overclock Tuner] item and select [Manual]
3. Select [CPU/HT Reference Clock (MHz)] item，and increase to higher Base clock rate (ex:243). Then select [DRAM Frequency] item，and set the DDR3 memory to higher clock rate (ex:1944MHz). Don’t forget setting [CPU Ratio] item to suitable ratio (ex:14.0)

   (In this case we only focus on memory over clocking, not CPU)
4. Select[DRAM Voltage] item , and set the value to [1.65000]

Step 1 : Select " Ai Tweaker "

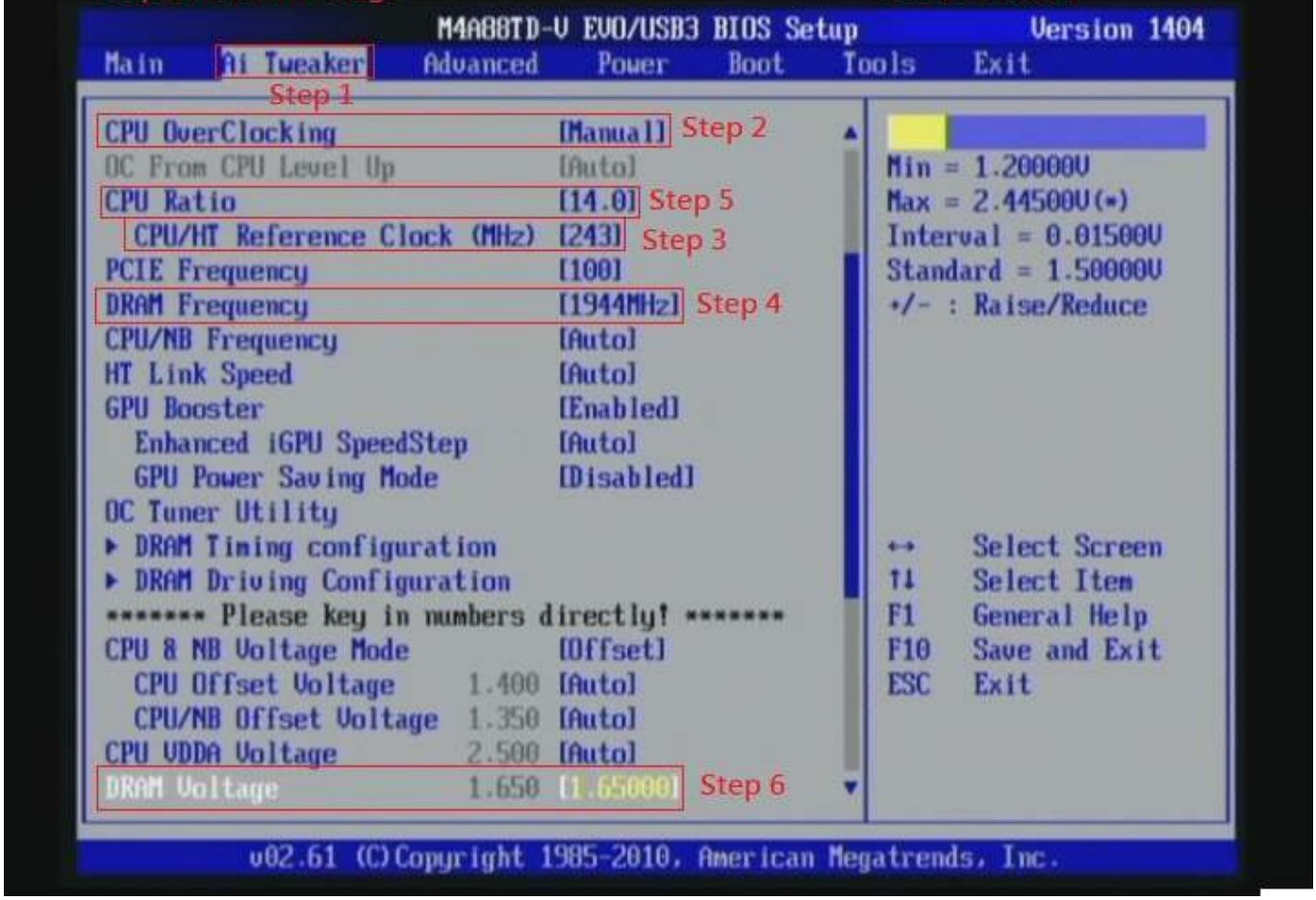
Step 2 : CPU Overclocking — Set [Manual]

Step 3 : CPU/HT Reference Clock (MHz) — Set [243]

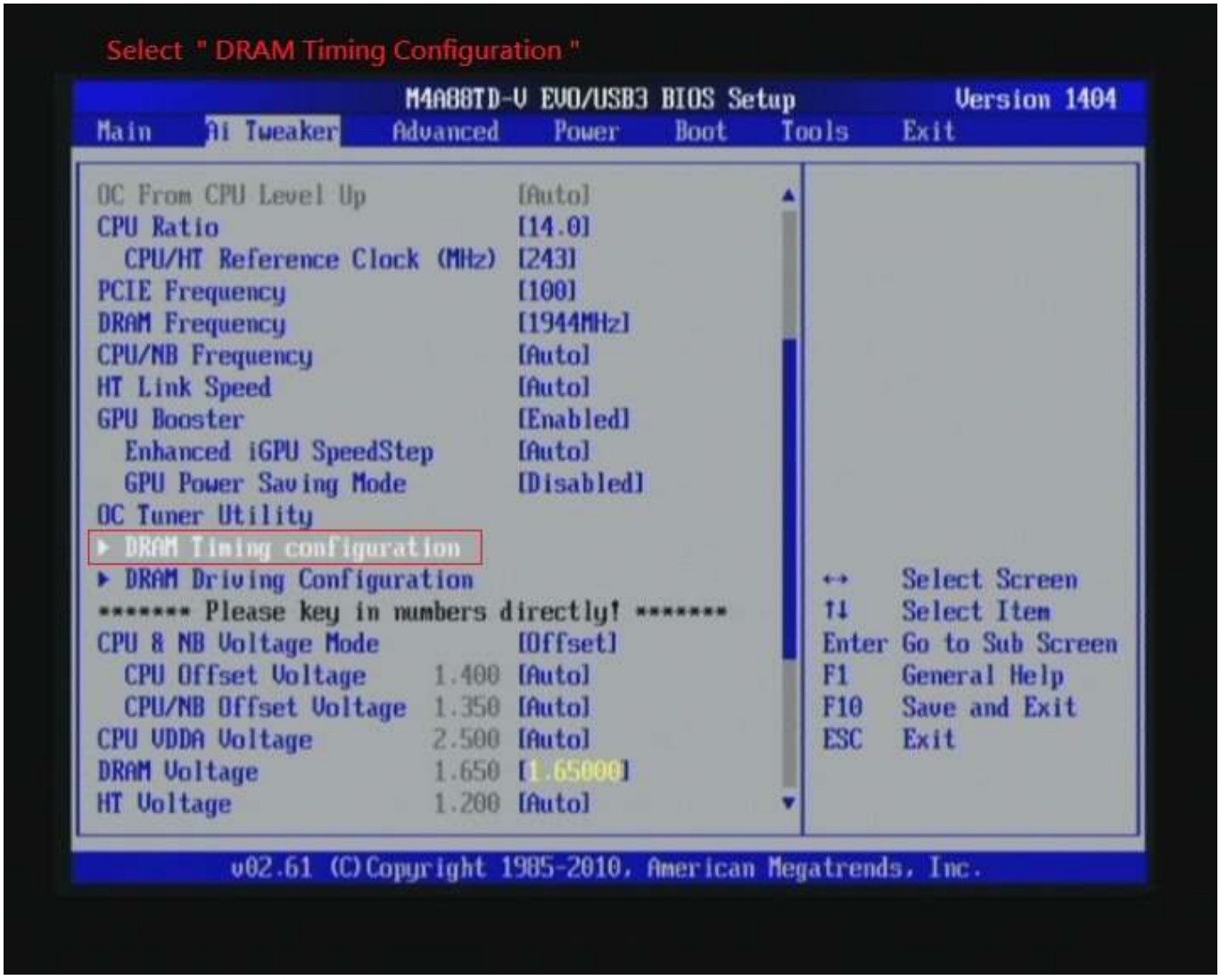
Step 4 : DRAM Frequency — Set [1944MHz]

Step 5 : CPU Ratio — Set [14.0]

Step 6 : DRAM Voltage — Set [1.65000]



5. Enter [DRAM Timing Configuration] item



6. set [DRAM CAS# Latency] item to [9 CLK]

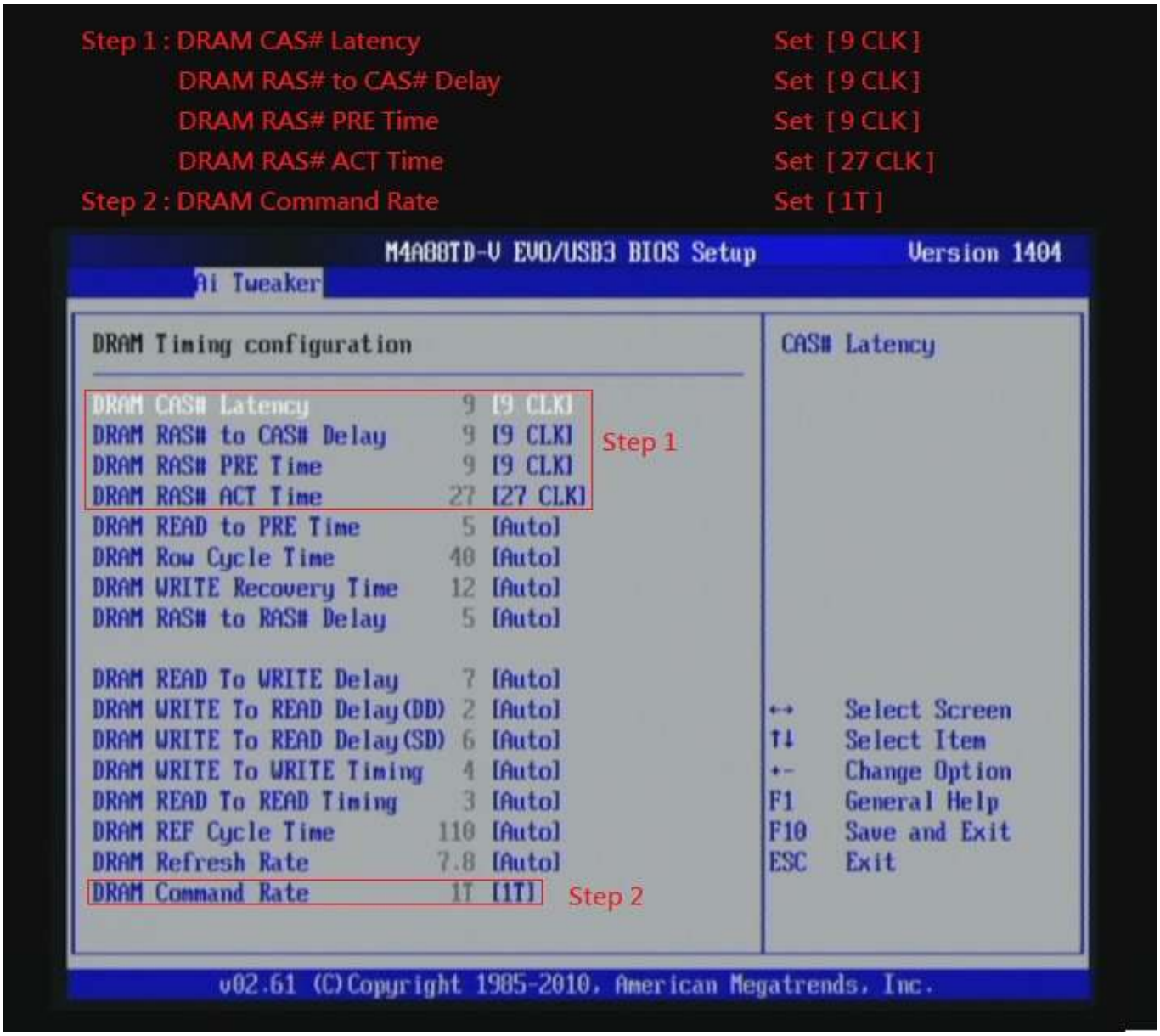
   set [DRAM RAS# to CAS# Delay] item to [9 CLK]

   set [DRAM RAS# PRE Time] item to [9 CLK]

   set [DRAM RAS# ACT Time] item to [27 CLK]

   set [DRAM Command Rate] item to [1T]

   then return to previous to [Ai Overclock Tuner] menu



7. Save BIOS changes [F10] and exit

Test result?

We use the strictest stress testing， multi-core MemTest in window 7， to show you PRINCO DDR3-1800 potential.

(Data rate：972.0*2=1944， timing：9, 9, 9, 27， multi-core test => pass!)