

## Intel P43000E775

# Intel Pentium 4 3.0GHz 800MHz 1MB Socket 775 CPU User Manual

Model: P43000E775

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Intel Pentium 4 3.0GHz 800MHz 1MB Socket 775 CPU. Please read these instructions carefully before proceeding with installation.



Image: Intel Pentium 4 3.0GHz 800MHz 1MB Socket 775 CPU, showing the top view of the processor with its heat

## SETUP AND INSTALLATION

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The Intel Pentium 4 processor is designed for Socket 775 motherboards. Proper installation is crucial for optimal performance and to prevent damage.

### Before Installation:

- Ensure your motherboard supports the Socket 775 form factor and the Intel Pentium 4 processor with an 800 MHz system bus.
- Verify that your motherboard's BIOS is updated to support this specific CPU model (Intel Pentium 4 processor 530).
- Gather necessary tools: thermal paste, CPU cooler, and a Phillips head screwdriver.
- Discharge static electricity by touching a grounded metal object before handling the CPU.

### Installation Steps:

1. Open the CPU socket retention lever on the motherboard.
2. Carefully align the CPU with the socket. The processor has notches that correspond to keys in the socket. Do not force the CPU into place.
3. Gently lower the CPU into the socket. It should sit flush without resistance.
4. Close the CPU socket retention lever to secure the processor.
5. Apply a thin, even layer of thermal paste to the top surface of the CPU.
6. Install the CPU cooler according to its manufacturer's instructions, ensuring proper contact with the CPU's heat spreader.
7. Connect the CPU cooler's fan power cable to the designated header on the motherboard.

## OPERATING CHARACTERISTICS

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The Intel Pentium 4 3.0GHz 800MHz 1MB Socket 775 CPU is designed for high performance in demanding applications. Key operational specifications include:

- **Clock Speed:** 3.0 GHz
- **System Bus Speed:** 800 MHz
- **L2 Cache:** 1 MB
- **Socket Type:** LGA775 (775-pin PLGA package type)
- **S-Spec Numbers:** SL7PU, SL7J6, SL7KK (These identify specific processor revisions.)

Once installed, the CPU operates automatically under the control of the operating system and motherboard BIOS. Ensure adequate cooling is maintained during operation to prevent overheating.

## MAINTENANCE

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CPUs generally require minimal maintenance. The primary focus should be on maintaining an effective cooling solution.

- **Dust Removal:** Periodically clean dust from the CPU cooler heatsink and fan using compressed air. Excessive dust can impede airflow and lead to higher operating temperatures.
- **Thermal Paste:** If the CPU cooler is removed for any reason, the thermal paste should be cleaned

off both the CPU and the cooler, and a fresh layer applied before reinstallation.

- **Environmental Conditions:** Operate the computer in a clean, well-ventilated environment to prevent dust buildup and ensure proper heat dissipation.

## TROUBLESHOOTING

If you encounter issues after installing your Intel Pentium 4 CPU, consider the following common troubleshooting steps:

- **No Power/No Display:**
  - Verify the CPU is correctly seated in the socket and the retention lever is fully closed.
  - Ensure the CPU cooler is properly installed and its fan is connected.
  - Check all power connections to the motherboard and components.
  - Confirm motherboard compatibility and BIOS version.
- **System Instability/Crashes:**
  - Monitor CPU temperatures. High temperatures can cause instability. Ensure the CPU cooler is functioning correctly and thermal paste is properly applied.
  - Run memory diagnostic tools to rule out RAM issues.
  - Check for any bent pins on the CPU (if applicable to the specific package type, though LGA775 pins are on the socket).
- **Slow Performance:**
  - Ensure the operating system and drivers are up to date.
  - Verify that the CPU is running at its advertised clock speed in the BIOS or system monitoring software.
  - Check for background processes consuming excessive CPU resources.

## SPECIFICATIONS

Feature	Detail
Processor Model	Intel Pentium 4 processor 530
Clock Speed	3.0 GHz
System Bus Speed	800 MHz
L2 Cache	1 MB
Socket Type	Socket 775 (LGA775)
Package Type	775-pin PLGA
S-Spec Numbers	SL7PU, SL7J6, SL7KK
Manufacturer	Intel
Model Number	P43000E775
Item Weight	1 pounds (approximate)

## WARRANTY INFORMATION

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Specific warranty details for this product are not available in the provided information. Please refer to the original product packaging or the official Intel website for current warranty terms and conditions.

## SUPPORT

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For technical support, driver downloads, or further assistance, please visit the official Intel support website:

[Intel Support Website](#)

You may also refer to the Intel store on Amazon for additional product information [Intel Store](#)