INTEL® PIIX4/PIIX4E TESTING NOTES FOR

INTEL® 430TX MAINBOARDS,
INTEL® 440LX/EX MAINBOARDS AND
INTEL® 440BX MAINBOARDS

I. INTRODUCTION

The **PIIX4/PIIX4E** is a part of **Intel® 430TX, 440LX/EX and 440BX** chipset. The following devices are components of **PIIX4/PIIX4E**:

> **Intel® 82371AB/EB PCI to ISA Bridge**
> **Intel® 82371AB/EB PCI Bus Master IDE Controller**
> **Intel® 82371AB/EB PCI to USB Universal Host Controller**
> **Intel® 82371AB/EB Power Management Controller**

In **Microsoft® Windows™ 95**, special device information **(*.INF)** are used to specify and define the characteristics of various controller and device classes of the operating system. These *.INF files can be found in the \WINDOWS\INF directory.

However, the PCI Device Ids for the functions embedded in the **PIIX4/PIIX4E** component is not listed in the current versions of the Windows™ 95 specified below.

> **Version 950**   **Windows™ 95 (Retail Release)**
>
> **Version 950A**   **Windows™ 95 OEM Service Release 1 (OSR1)**
>
> **Version 950B**   **Windows™ 95 OEM Service Release 2.0 (OSR2) or Windows™ 95 OEM Service Release 2.0 plus USB Supplement (OSR2.1)**

For this reason, after installation of Windows™ 95 in **Intel® 430TX, 440LX/EX, 440BX** systems, many devices are not recognized and therefore will have **either ! or ? in Device Manager.**

To solve this problem, changes to the **MACHINE.INF**, **MSHDC.INF**, **NODRIVER.INF** and **USB.INF** (for version 950B) must be made.

II. SOLUTION

Modifying the ***.INF** files require an enormous amount of time and patience. For this reason, this utility will modify the ***.INF** files for you. Your original *.INF files will be backed up with the *.000 extension.

Take note, however, that this only applies to the versions of Windows™ 95 described above.

III. EXPLANATION ON USB

For **Windows™ 95 OSR2 plus USB Supplement (OSR 2.1) release,** USB is already supported.   No additional USB drivers are needed.

For **Windows™ 95 OSR2**, **USBSUPP.EXE** must be installed first, before running this utility. USBSUPP.EXE can be acquired from Microsoft.

For **Windows™ 95 950 and 950A**, USB is not supported and therefore no drivers are necessary.

IV.   CONCLUSION

Hope that this utility will simplify Windows™ 95 installation in **Intel® 430TX, 440LX/EX and 440BX** systems.