Professional PC Diagnostics

Ideal For:
- Service and Repair Technicians
- Corporate Micro Managers
- OEMs
- Design QA & QC Engineers

This Package Includes:
- PC/XT Diagnostics
- AT – 286 Diagnostics
- AT – 386 Diagnostics
- AT – 486 Diagnostics
- MC – 8086
- MC – 30286
- MC – 286
- MC – 386
- MC – 486
- PC/XT ROM POST
- XT ROM POST
- AT ROM POST – Twin
- AT ROM POST – Single
- Loopback Plugs

C. Test
C. Test
D. Diagnos
E. Utilities
F. Logging

Service Diagnostics™

World's Most Mature PC Diagnostics

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What You Get With Service Diagnostics

Unlike other diagnostic test packages that reduce test features in order to work on all systems, Service Diagnostics has special versions for a complete testing job. Buy one version or get all of them in "The Kit". All versions include appropriate serial and parallel loopback plugs and are available in a self-booting format for non-DOS (such as UNIX) systems. See the front of this package for a complete list of options and contents.

The Professional's Choice

First introduced for PCs in 1981, Service Diagnostics was the first third-party diagnostic for IBM PC, XT, AT, PS/2's, and compatibles. Service Diagnostics has been the professionals choice in rigorous field testing for more than a decade.

Perfect for Service Professionals

Service Diagnostics has the features and functions you need to find the problem and put a system back in service – fast. Intuitive, easy to use menus allow you to:

- Have full looping and error control
- Log results to parallel ports, serial ports, or disk file of choice
- Display/edit system time, date and CMOS RAM contents
- Display context-sensitive help

CPU & Motherboard Tests

These check your systems CPU, math coprocessor, DMA, interrupt controllers, counter/timers, and CMOS RAM (for ATs).

Award-Winning Memory Tests

A battery of tests that check every byte in base, extended and expanded memory. The test relocates itself, reporting address and bit errors; trapping and displaying parity errors. Quick, Memory Address, Walking-bit, Memory Hysteresis, Memory refresh, Memory map, and Contents tests are available.

Video Adapter and Monitor Tests

Twelve tests check character generators, palette circuitry, color purity, monitor adjustment, display memory, attributes, and modes on monochrome (MDA), color (CGA), enhanced color (EGA), video graphics array (VGA) adapters and associated monitors.

Hard Drive Tests & Utilities

This suite of functions allow you to fully test all hard drives in the system including MFM, RLL, IDE, SCSI, and ESDI drives with controllers that accept and execute standard BIOS commands.

Tests-Read, write/read, seek/read, and controller tests use up to fifteen worst-patterns to allow you to select write pre-compensation, sector interleave, track skew, and completely validate any range of tracks, sectors, and heads on the drive. All test functions will create a bad sector table.

Utilities–Edit a bad sector table, perform low-level format of any hard drive area using your choice of sector interleave factor. Bad sectors are marked by table entries. Set up multiple partitions on the hard drives with the partition editor.

Serial, Parallel & Printer Tests

Fully check all serial and parallel ports in both internal and external parallel loopback modes. Printer tests verify all ASCII characters in all positions in upper and lower case, plus control commands for carriage motion and printing attributes on daisywheel (Qume, Spinwriter, and Diablo), dot matrix (Epson 80 and 100, and DEC LA 50), standard line, and character printers.

Keyboard Tests

These display a map and scan codes for keys you press on all 84 and 101 key keyboards.

Jumpstart™ ROM POST

The ROM POST replaces BIOS ROM chips when the system doesn't work well enough to boot, giving a full screen display of the status of your system. Even without a keyboard and monitor the ROM POST will generate beep codes for error reporting. Use it to check out system circuitry and peripherals needed to boot, running continuously in a loop, displaying cumulative error counts:

- CPU register and logic, and 8087 math coprocessor
- 8253 timer, 8237 DMA controller & 8259 interrupt controller
- Parity error detection and memory refresh logic
- Correct maskable/non-maskable interrupt detection
- Display adapter (MDA, CGA, EGA, VGA)
- Keyboard, keyboard controller, floppy controller, drive A: read Base memory at normal & slow refresh rates; POST checksum
- Display of motherboard switch CMOS configuration; and more.

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SERVICE DIAGNOSTICS
XT/AT SOFTWARE

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