

**Service Diagnostics**  
**Version 2.13.18**  
**July 6, 1992**

This section of the read-me lists and and/or describes errors that have been found in the manual since it was originally written. It also documents enhancements or changes which have been added to increase program usability and to correct discrepancies between the manual description and the actual product functions.

**PAGE 18, 21-23 ... UTILITIES MENU**

Options C, D, E, copy, format, backup/restore have been deleted.

**PAGE 41 ... IRQ MAP**

this section title should read "80X86 Interrupt map" The 80X86 Interrupt Map displays the interrupt vector, description, and owner of all software interrupt vectors.

**PAGE 47, 51, 101 ... MEMORY TESTS**

"Execute above tests" has been moved to menu selection "C", so only the quick data and address tests will be run.

"Burn-in Test" has been renamed more appropriately "Memory Hysteresis Test" and is now menu selection "D". "Walking Bit Test" is now menu selection "E".

**PAGE 53A ... FOLLOWING "MEMORY MAP"**

The following information should be added:

EMM information: This selection provides information about the Expanded Memory Manager. This includes the size of expanded memory, number of pages and memory location.

Toggle Parity Checking: Parity errors are caught by Service Diagnostics. They may be reported or not depending on the setting of this option. By selecting IGNORE reporting parity errors, if any, are are trapped and reported after the test is run. If REPORT parity errors is selected, all parity errors are reported immediately.

**PAGE 84-89, 125-129 ... ALIGNMENT**

These sections should be deleted. Alignment functions are now available with Service Diagnostics as a separate software module with it's own User's Manual.

# **SERVICE DIAGNOSTICS**

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Professional PC Diagnostics  
User's Manual

## **ERRATA and Release Notes**

## **PAGE 105 ... PARALLEL PORT TEST**

This new release comes with a slightly different parallel loopback plug. The new pin-outs are as follows:

DB-25	4 .....	15
	5 .....	17
	6 .....	13
	7 .....	12
	8 .....	10
	9 .....	11

Prior versions of the loopback plugs are fully compatible with this new software release. You do not need to order new plugs.

## **PAGE 111 ... TABLE 5 SAMPLE HARD DRIVE SPECS.**

For additional hard drive specifications, call Landmark at (800) 683-6696 and ask for DiskBase. DiskBase includes specs for over 2200 drive types. Also included are jumper settings, controller specs and settings, and BIOS hard drive tables by BIOS type.

## **PRODUCT NOTES**

This new version of Service Diagnostics contains the following enhancements and feature improvements:

- Improved testing and detection of XMS, and LIM 4.0 extended and expanded memory.
- The floppy drive alignment tests have been removed from Service Diagnostics. this was done largely because of limited disk space. AlignIt is now included with all Service Diagnostics kits that feature alignment and offers similar test suites.
- The digital alignment disks used with previous versions of Service Diagnostics will not work with AlignIt. The new AlignIt diskettes will not work with older versions of Service Diagnostics. Replacement diskettes for your preferred program are available. Update cost depends on date of purchase. Please call your Product Consultant.
- Improved video detection.
- Improved testing of SVGA boards with 1MB of RAM.

- Improved the printer logging capabilities.

- Developed new detection software that determines when the system is in Protected Mode, DOS is loaded in HMA, or when other Extended or Expanded memory drivers are loaded. Note: Under certain circumstances such as running the CPU in Protected Mode, loading DOS in high memory, or running certain LIM/EMS memory drivers it is not appropriate to run Service Diagnostics, because of the limited hardware access available.

- Detection and testing capability for the Harris 80C86/80C88 chips has been added as an optional module.

- Each CPU is now shipped on an individual diskette (dual media is included where applicable):

PC/XT 8088/86

AT 286

AT 386

AT 486

MC 8088/8086

MC 30 286

MC 286

MC 386

MC 486

Other modules available, but not included:

PC/XT V20

PC/XT Harris

PC/XT 286

- Added detection and support for the CHIPS SuperMath 387s.

- The Popad test has been removed. The Popad instruction problem is a well known 386 CPU anomaly. The testing was removed in order to eliminate the alarm that it caused many users. It's important to note that this is a real bug in some 386 CPUs that could cause problems if it is utilized by application software.

- The DOS copy/format diskette utility was disabled. Call Landmark at (800) 683-6696 for more information on SuperCopy, the only software utility that can reformat floppy disks to volumes up to 1.7MB.

- The backup/verify/restore functions have been removed.

- The floppy diagnostic test has been improved. It now properly tests and detects high and low density 3.5 and 5.25 diskettes.