Larson Systems Inc.



060-40000-0101-00 FLASH Hard Drive Corruption Repair

About This Manual

This manual could contain technical inaccuracies or typographical errors. Changes are periodically made to the information contained herein. These changes will be incorporated in new editions of the manual.

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1 INVALID SYSTEM DISK

Because the FLASH tester uses a typical hard disk it is vulnerable to corruption. The PC motherboard of the tester has a power monitor circuit that resets the board if the +5 volts either falls below 4.75V or above 5.25V. When Windows is not shut down properly, as in the case of a power failure due to power loss or board reset, the hard drive can become corrupted. Depending on the level of corruption it may be possible to recover the drive using a CD drive and the original XP install CD.

If an external USB CD drive is available then the attempt can be made to repair the hard drive with it still in the FLASH head.

The BIOS settings may have to be changed to allow the CD drive or the USB CD drive to be the first boot device. This setting is in the Advanced Settings under the label First Boot Device. Write down whatever changes are made to make the CD drive the fist boot device. The following pictures are for FLASH testers running the PCM-3370 motherboard.



When the CD drive is used as a boot device the normal XP Install startup is started. The Windows Installer environment will begin to load immediately, however if a USB CD drive is used it may take a few minutes for the environment to load completely.

CPU ID-rucode ID : 66BA/00 CPU Clock : 933PHz Pri. Master Disk : LDM,ATA 33, Pri. Slawe Disk : Mone Sec. Master Disk : Mone Sec. Slawe Disk : None	Cache Menory : 512K 40010MB Display Type : EGAL-UGA Serial Port(s) : 378 278 Parallel Port(s) : 378 SDRMM at Bank : 0	u latasi Setup
USB Storage Device : USB 2.0 Driv PCI device listing Bus No. Device No. Func No. Vends 0 7 1 1106	ar/Device Class Device Class 0571 0101 1DE Cntrir 3038 0C03 Serial Bus Cntrir	1RQ 14 10
0 7 2 1106 0 15 0 10EC 1 0 0 5333		11 Min 5

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Follow these steps in order until one succeeds. You may have to reboot after each step.

1) Boot to the Recovery Console.



- a. Enter the command fixboot
 - i. This command attempt to fix any errors with the boot sector of the hard drive.
- b. Enter the command chkdsk /r
 - i. This command perform a chkdsk to look for damaged files and repairs them. When this finishes remove the CD and allow the system to boot normally.
- 2) Attempt a normal install. The install program will do one of two thing
 - a. It will see the original install and ask to simply overwrite the existing install. This is the preferred method of repair. Allow this to happen. This will re-install damaged files and reset certain section of the registry without deleting it entirely.
 - b. The installer will attempt to perform a normal, blank hard drive install. DO NOT LET THIS HAPPEN. Turn the power off and allow the CD to reboot.
- 3) The disk is currently unrecoverable.

Reset the boot devices in the BIOS.