



## Roteiro de Testes da PC INSPECTOR PCI

### Hard Disk Test

0001h - Controller Internal Diagnostic

0002h - Drive Ready  
0004h - Recalibrate Drive  
0008h - Linear Seek  
0010h - Funnel Seek  
0020h - Random Seek  
0040h - Linear Read  
0080h - Random Read

### Hard Disk Read/Write Surface Test

0001h - Testing Memory Buffers  
0002h - Surface Data Inversion

### Com Port Test

0001h - COM Type Detection  
0002h - IRQ Generation  
0004h - Baud Rate Register  
0008h - Line Control Register  
0010h - Modem Control Register  
0020h - Interrupt Control Register  
0040h - Sizing FIFO Receiver  
0080h - Verify FIFO Trigger Levels  
0100h - FIFO Buffer Data & Address  
0200h - Max Baud Rate Detection  
0400h - Internal Loopback Status  
0800h - Internal Loopback Transmitting

1000h - External Loopback Status  
2000h - External Loopback Trans

### Modem Test

0001h - Modem Detection  
0002h - IRQ Generation  
0004h - Device Product Code  
0008h - Modem ROM Checksum  
0010h - Modem RAM Self Test  
0020h - Fax Class Support  
0040h - Software Reset  
0080h - Factory Default  
0100h - Speaker Control  
0200h - Volume Control  
0400h - Dial/Connect Control  
0800h - Hook Control

### LPT Test

0001h - LPT Type Detection  
0002h - Ext. Loopback IRQ Generation  
0004h - LPT General Control Register  
0008h - SPP/BPP/EPP Data Port  
0010h - BPP Bi-Directional Operation  
0020h - EPP Address Register  
0040h - EPP Data Ports 0-3  
0080h - ECP Control Register

0100h - ECP Internal FIFO Sizing

0200h - ECP FIFO Testing  
0400h - ECP IRQ Assignment  
0800h - ECP ISA IRQ Line Monitoring  
1000h - ECP Configuration Registers  
2000h - External Loopback

### CD(DVD)-ROM Test

0001h - Drive Ready/Status OK  
0002h - Media Presence and Valid  
0004h - Door Lock/Unlock Support  
0008h - Sequential Seek/Holding Track  
0010h - Random Seek/Head Positioning  
0020h - Sequential Coil Read  
0040h - Random Read/Accurate Streaming

### A.R.M.D. Test

0001h - Drive Ready/Status OK  
0002h - Medium Presence  
0004h - Linear Seek  
0008h - Linear Read  
0010h - Random Read  
0020h - Linear Read/Write/Verify

### Floppy Drive Test

0001h - Controller Diagnostic  
0002h - Determine Drive Parameters  
0004h - Linear Seek/Read  
0008h - Funnel Seek/Read  
0010h - Random Seek/Read  
0020h - Linear Read/Write/Verify  
0040h - Funnel Read/Write/Verify  
0080h - Random Read/Write/Verify  
0100h - Verify Rotation Speed

### Sound Blaster Test

0001h - FM Hardware Detection  
0002h - SB DSP Detection  
0004h - DSP Interrupt Line  
0008h - SB 8-Bit DMA Channel  
0010h - Mixer Detection

### PCI Bus Test

0001h - PCI BIOS Detection  
0002h - PCI Buses Scan  
0004h - Device Access Test  
0008h - Device Search Test  
0010h - Class Search Test  
0020h - Check Device Status  
0040h - Check Device BIST

### Plug-and-Play Test

0001h - PnP BIOS Detection  
0002h - Device Node Access  
0004h - Verify Node Access  
0008h - Check Node Resources

0001h - Read ISA PnP Cards

0020h - Check ISA PnP Cards

### SM Bus Test

0001h - SM Bus Host Detection  
0002h - SM Bus Host Registers Test  
0004h - SM Bus Status  
0008h - SM Bus Device Scanning  
0010h - SM Bus Operation

### Keyboard Controller Test

0001h - Kbd Controller Cmd Byte Access  
0002h - Kbd Controller Selftest  
0004h - Keyboard Interface  
0008h - Keyboard Interface Disable  
0010h - Keyboard Interface Enable  
0020h - Keyboard Data line On/Off  
0040h - Keyboard Clock line On/Off  
0080h - Keyboard Overrun Handler  
0100h - BIOS Buffer Overrun Check

### APM Test

0001h - APM BIOS Detection  
0002h - APM Real Mode Connect  
0004h - APM 16-bit Connect  
0008h - APM 32-bit Connect  
0010h - APM Disconnect  
0020h - CPU Idle/Busy  
0040h - Get Power Status  
0080h - Enter Standby Mode  
0100h - Enter Suspend Mode

### CPU Test

0001h - Protected Mode Instructions  
0002h - Stack Manipulation  
0004h - Flag Conditions  
0008h - Arithmetic Instructions  
0010h - Data Transfer Control  
0020h - Execution Control  
0040h - Processor Control  
0080h - String Operations  
0100h - IA MMX Instructions  
0200h - Intel IA MMX-2 Instructions  
0400h - AMD 3DNow! Instructions  
0800h - Internet Streaming SIMD

### FPU Test

0001h - FDIV Bug  
0002h - FPU Busy Status  
0004h - FPU Stack  
0008h - FPU Tag Condition  
0010h - Data Transfer & Constants  
0020h - Compare Functions  
0040h - Arithmetic Instructions  
0080h - Transcendental Functions  
0100h - Floating Unit Control

### FALHAS MAIS COMUM APRESENTADAS NO DIAGNÓSTICO:

0001h - SM Bus Host Detection - Significa que a Placa mãe pode não tem o SM Bus (Não é defeito).

0100h - BIOS Buffer Overrun Check - Geralmente a falha é porque a Placa mãe não tem o recurso Buffer de Teclado.