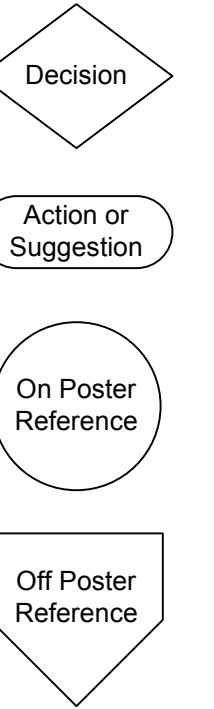


# Boot Failure Troubleshooting Flowchart

Excerpted and compiled from "Computer Repair with Diagnostic Flowcharts" ISBN 0972380116  
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<http://www.fonerbooks.com/pcrepair.htm>  
Version 1.0A

## Symbol Key



## Please Read

The author has done his best to provide accurate and up-to-date information in this Boot Failure Troubleshooting Flowchart, but he cannot guarantee that the information is correct or will fit your particular situation. This poster is supplied with the understanding that the publisher and the author are not engaged in rendering professional or engineering services. If expert assistance is required, the services of a competent professional should be sought.

## Power Supply Failure

## IDE Drive Failure

## CD or DVD Playback

## Video Failure

## Hard Drive Boot and Performance

## Motherboard, CPU, RAM Performance

## Conflict Resolution

## Motherboard, CPU, RAM Failure

## SCSI Failure

## 20 Pin Power Supply Motherboard Connector

ATX Version 1.2			
Pin 1	3.3V	3.3V	Pin 11
Pin 2	3.3V	-12.0V	Pin 12
Pin 3	GND	GND	Pin 13
Pin 4	5.0V	P_ON	Pin 14
Pin 5	GND	GND	Pin 15
Pin 6	5.0V	GND	Pin 16
Pin 7	GND	GND	Pin 17
Pin 8	P_OK	-5.0V	Pin 18
Pin 9	5VSB	5.0V	Pin 19
Pin 10	12.0V	5.0V	Pin 20

## Video Pinout

- 1 - Red
- 2 - Green
- 3 - Blue
- 4 - Monitor ID (Note: pins for ID bits often not present)
- 5 - Ground
- 6 - Red Return (coax shield)
- 7 - Green Return (coax shield)
- 8 - Blue Return (coax shield)
- 9 - No-Connection
- 10 - Sync Ground
- 11 - Monitor ID
- 12 - Monitor ID
- 13 - Horizontal-Sync
- 14 - Vertical-Sync
- 15 - Monitor ID

## SCSI ID's

ID	ID3	ID2	ID1	ID0
0				
1				X
2			X	
3			X	X
4	X			
5	X		X	
6	X	X		
7	X	X	X	
8	X			
9	X		X	
10	X		X	
11	X	X	X	
12	X	X		
13	X	X	X	
14	X	X	X	
15	X	X	X	X

## Standard Color Coding

Black	Ground
Orange	3.3V
Red	5.0V
Gray	P_OK
Purple	5.0VSB
Green	P_ON
Yellow	12.0V
Blue	-12.0V
White	-5.0V

Some brand name PCs use proprietary schemes for powers supply connectors.

Some brand name PCs use proprietary schemes for color coding. This table is generated from the ATX 1.2 Standard.

## LIST OF FLOWCHARTS FROM BOOK "COMPUTER REPAIR WITH DIAGNOSTIC FLOWCHARTS" NOT APPEARING ON POSTER

- > VIDEO PERFORMANCE
- > CD OR DVD RECORDING PROBLEM
- > MODEM FAILURE
- > MODEM PERFORMANCE
- > SOUND FAILURE
- > SOUND AND GAME CONTROLLER PERFORMANCE
- > NETWORK FAILURE
- > PERIPHERAL FAILURE

## A note about the book:

The book was not designed to be read from cover to cover. At the core of the book are seventeen diagnostic flowcharts, and the sole purpose of the text is to expand upon them. The flowcharts themselves are necessarily written in short-hand form, to fit a meaningful number of decision points on a page. A linear text is simply not possible due to the decision tree structure of the flowcharts. The diamond shape for each decision point in the flowchart is repeated in the outer margin of the pages following the flowchart. This marks the section of text that explains the action in more detail.