

# ADAPTEC ACB-237XC TROUBLESHOOTING CHECKLIST

- ❑ **Gets a 1790 at boot-up:**  
A 1790 Error is normal for an unformatted drive. Just press F1 to continue.
- ❑ **Long boot time:**  
Some AT systems may continue to retry booting to the hard drive even though it has not been formatted yet. You will have to allow this re-trying to continue for up to two minutes before the system will boot to the floppy drive. Then you can proceed to Debug and format the drive.
- ❑ **Can't read floppy or boot to A: (ACB-2372C only)**  
Check floppy cables; be sure J1 goes to both floppy drives. Be sure that pin 1 on the controller is connected to Pin 1 of the drive. If only one drive is being used, the last connector on the twisted cable should be connected to the drive. A floppy cable has 7 wires twisted, between the drive connectors.
- ❑ **Recal error, or no drive attached error:**  
Check the drive select jumper on hard disk drive; be sure that it is correctly set for the type of cable you are using.  
Check hard disk cables. Be sure J4 goes to Drive 1, J3 goes to Drive 2, and J5 goes to both drives. Be sure that Pin 1 on the controller is connected to Pin 1 of the drive. If only one drive is being used, only J5 and J4 should be used. Do not use a floppy cable for hard drives.
- ❑ **Misc. errors, or no format routine:**  
Check that the jumpers on controller are set as shown in this guide.
- ❑ **Extra defects, or fails to format:**  
Make sure the drive is RLL certified. Check with the drive manufacturer.
- ❑ **Won't boot to C:**  
Check to see that the SETUP program shows drive type 1 is selected.
- ❑ **Intermittent operation errors, or Read/Write errors:**  
Check that the terminator on each drive is set properly.  
Check that the power supply can support the added current required by the drive. Be sure that the +5V and +12V voltages are correct. Consult with the drive vendor for the correct drive power requirements.
- ❑ **System hang or boot problems:**  
Try installing the BUS WAIT STATE Jumper. The DTK 10 MHz system needs this jumper installed on the controller board.
- ❑ **If none of the above steps cure the problem, then swap out components in this order and try again:**  
Replace the cables with known-good cables  
Swap the drive with a known-good drive  
Swap the 237XC controller with another 237XC controller.

## F.C.C. CERTIFICATION

This equipment generates and uses radio frequency, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type-tested and found to comply with the limits for a Class B computing device in accordance with the specifications in 'Subpart J of Part 15 of FCC Rules' which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

'How to Identify and Resolve Radio-TV Interference Problems.' This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

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## FIVE-YEAR LIMITED LIFE-TIME WARRANTY

The Seller warrants to the Buyer that the products to be delivered under this purchase order will be free from defects in material and workmanship under normal use and service. Seller's obligations under this Warranty are limited, of its sole option, to (i) replacing or (ii) repairing or (iii) giving credit for, any such products which shall, within five (5) years from date of shipment, be returned to the Seller's factory; transportation charges prepaid, and which one, after examination, disclosed to the Seller's satisfaction to be thus defective. THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, STATUTORY, OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE SELLER'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR THE SELLER ANY OTHER LIABILITIES IN CONNECTION WITH THE SALE OF THE SAID ARTICLES. This warranty shall not apply to any of such products which shall have been repaired or altered, except by the Seller, or which shall have been subjected to misuse, negligence, or accident. The aforementioned provisions do not extend the original warranty period of any product which has either been repaired or replaced by Seller. Prior to returning any products to Seller, Buyer must request and obtain a Return Material Authorization (RMA) number from the Seller.

## CHANGES

The material in this guide is for information only and is subject to change without notice. Adaptec reserves the right to make changes in the product design without reservation and without notification to its users.

If you require further information or other technical support, please contact your authorized dealer.

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510052-00 Rev. A SM/MAC 4/89

# ACB-237XC

## Installation Guide

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# QUICK INSTALLATION

1. Install controller and drives into your AT, and cable them together. Run a floppy\* drive cable from "FD" to both floppy drives. The connector on the END of the cable goes to drive 1. Run a 34-pin hard drive cable from HD and connect to both hard drives. Connect one 20-pin cable each to hard drive 1 from DR1, and to hard drive 2 from DR2.
  2. Run your AT "SETUP" program from your AT DIAGS diskette and set the hard drives to type 1.
  3. Boot to DOS, and run DEBUG.
  4. Type in : A > DEBUG <CR>  
-G=C800:5 <CR>
  5. The Adaptec format menu will come up.
  6. Choose: 1 - to primary-format drive 1.
  7. Enter the number of heads and cylinders for your drive.
  8. Now just keep hitting the enter key <CR>, (to select each default entry).
  9. After format is complete. Choose q - to end this program.
  10. Now you are ready to install your operating system software.  
Go to DOS FDISK and FORMAT, or, SPEEDSTOR, DISK MANAGER, SCO XENIX, OS/2, UNIX, etc.
  11. If you run into any problem, consult the troubleshooting checklist on page 5.
- \* If you have the hard-drive-only controller, ACB-2370C, please ignore all references to floppy drives.

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JUMPERS	
J2-1	HARD DRIVE PORT ADDRESS * Not installed = 1F0 - 1F7 Installed = 170 - 177
J2-2	NOT USED
J2-3	BUS WAIT STATE * Not installed = Enabled Installed = Disabled
J2-4	STEP RATE/ RECAL * Not installed = 16 μSec rate and recal to 0 Installed = Recal to 0 minus 1 and 35μsec rate
J2-5	READ AHEAD CACHE * Not installed = Enabled Installed = Disabled
J2-6	NOT USED
J2-7	NOT USED
J2-8	NOT USED

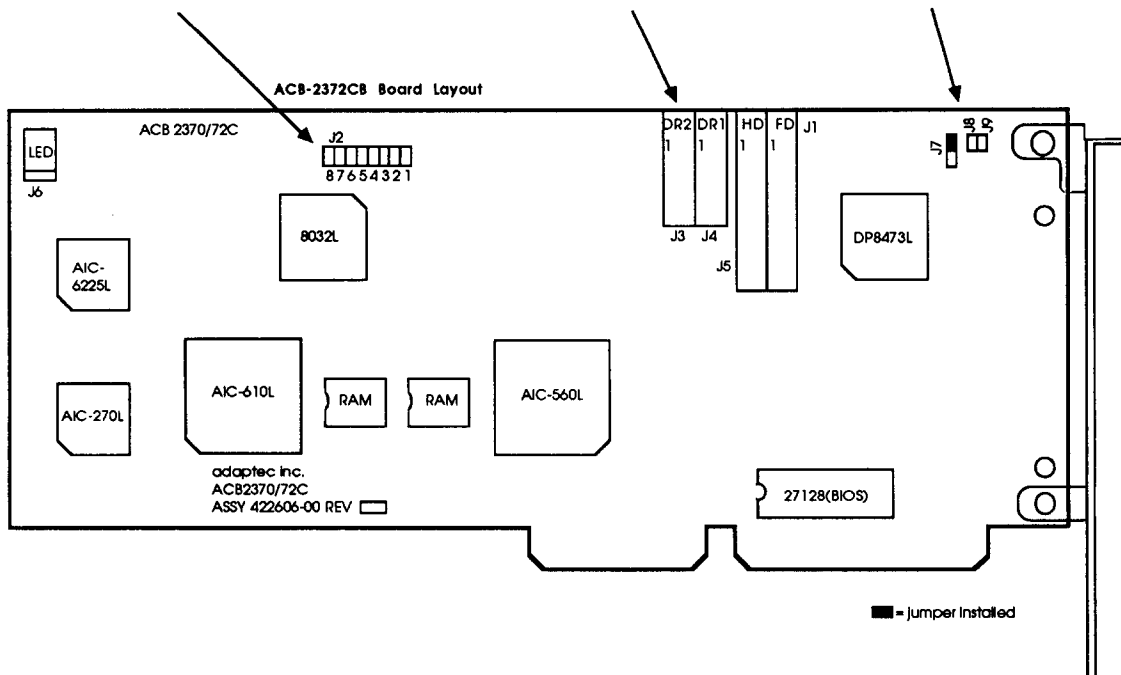
CONNECTORS
J1 - FLOPPY DRIVE
J3 - HARD DRIVE 2. DATA CABLE
J4 - HARD DRIVE 1. DATA CABLE
J5 - HARD DRIVE CONTROL CABLE
J6 - DRIVE ACTIVITY LIGHT

JUMPERS	
J7 - BIOS ADDRESS SELECTION	* 1-2 C8000-CBFFF 2-3 CC000-CFFFF NONE = BIOS DISABLED
J8 - FLOPPY DISK PORT ADDRESS	Installed = Secondary 370-377 *None = Primary 3F0-3F7
J9 - FLOPPY DISABLE	Installed = Disabled *None = Primary 3F0-3F7

\* = as shipped

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