ADAPTEC ACB-232XD
TROUBLESHOOTING CHECKLIST

- ❑ ***Gets a 1790 at boot-up.***
  A 1790 Error is normal at boot-up.
  continue.
- ❑ ***Long boot time:***
  Some PC 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-try 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:***
  Check floppy cable. ***Boot to A (ACB-2322D only):***
  sure that Pin 1 on the be sure J5 goes to both floppy drives. Be
  drive. If only one drive the controller is connected to Pin 1 of the
  the twisted cable drive is being used, only the last connector on
  16 twisted between should be used. A floppy cable has wires 10-
- ❑ ***Recal error, or no*** the two drive connectors.
  Check the drive s ***drive attached error:***
  that it is correctly select jumper on the hard disk drive; be sure
  Check hard drive set for the type of cable you are using.
  Drive 1, and J4 go cables. Be sure J3 goes to Drive 0, J2 goes to
  controller is connected both drives. Be sure that Pin 1 on the
  being used, only connected to Pin 1 of the drive. If only one drive is
- ❑ ***Incorrect drive p*** J3 and J4 should be used.
  ESDI drives have ju ***meters:***
  for "bytes per sec jumpers for number of sectors per track" and
  your drive vendor also for hard or soft sectoring. Consult
  use soft sectoring for proper settings of these jumpers. Do not
- ❑ ***Misc. errors, or no*** ***format routine:***
  Check that the c controller jumpers are correctly set.
- ❑ ***Excessive defect*** ***or fails to format:***
  Make sure the d drive is ESDI certified. Check with the drive
  manufacturer.
- ❑ ***Won't boot to C:***
  Check to see that t
  drive type 1 is sele the SETUP program and CMOS RAM show
- ❑ ***Intermittent oper*** ***tion errors, or Read/Write errors:***
  Check that the te
  Check that the p terminator on each drive is set properly.
  required by the d power supply can support the added current
  are correct. Consu Be sure that the +5V and +12V voltages
  power requireme with the drive vendor for the correct drive
- ❑ ***If none of the abo***
  out components ve steps cure the problem, then swap
  in this order and try again:
  Replace the cab
  Swap the drive w with known-good cables.
  Swap the 232XD with known-good drive.
  Swap the controller with another 232XD controller.
- ❑ ***Adaptec maintai*** ***s a bulletin board for information and***
  questions.
  Call (408) 945-77 7 or (408) 945-8869 by modem.

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F.C.C. CERTIFICATION

This equipment gene ...a...s and uses radio frequency, and if not installed and used properly, that is ...in strict accordance with the manufacturer's instructions, may cause interfere... 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 pro... reasonable protection against such interference in a residential installation ... However, there is no guarantee that interference will not occur in a particular ...nstallation. If this equipment does cause interference to radio or television re...eption, 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 f...llowing measures:

Reorient receiving ...ntenna.
Relocate the comp... with respect to the receiver.
Move the compute... away from the receiver.
Plug the computer ...into a different outlet so that computer and receiver are on diffe...nt branch circuits.

If necessary, the us... 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. 004-000-00...345-4.

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FIVE-...EAR LIMITED LIFE-TIME WARRANTY

The Seller warrants t... the buyer that the products to be delivered under this purchase order will b... be free from defects in material and workmanship under normal use and serv... Seller's obligations under this Warranty are limited, at its sole option, to ... 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 Selle... factory, transportation charges prepaid, and which are, after examinati... disclosed to the Seller's satisfaction to be thus defective. THIS WARR... ANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, STATUTO... RY OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY A... FITNESS FOR A PARTICULAR PURPOSE, AND OF ALL OTHER OBLIGATIONS ... OR LIABILITIES ON THE SELLER'S PART, AND IT NEITHER ASSUMES NOR AUTH... ORIZES ANY OTHER PERSON TO ASSUME FOR THE SELLER ANY OTHER LIABILITIE... IN CONNECTION WITH THE SALE OF THE SAID ARTICLES. This warranty shall n... 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 ex... and the original warranty period of any product which has either been rep... aired or replaced by Seller. Prior to returning any products to Seller, Bu... yer must request and obtain a Return Material Authorization ("RMA ... number from the seller.

CHANGES

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

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

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510074-00 REV. A PC/MAC 9/89

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adaptec

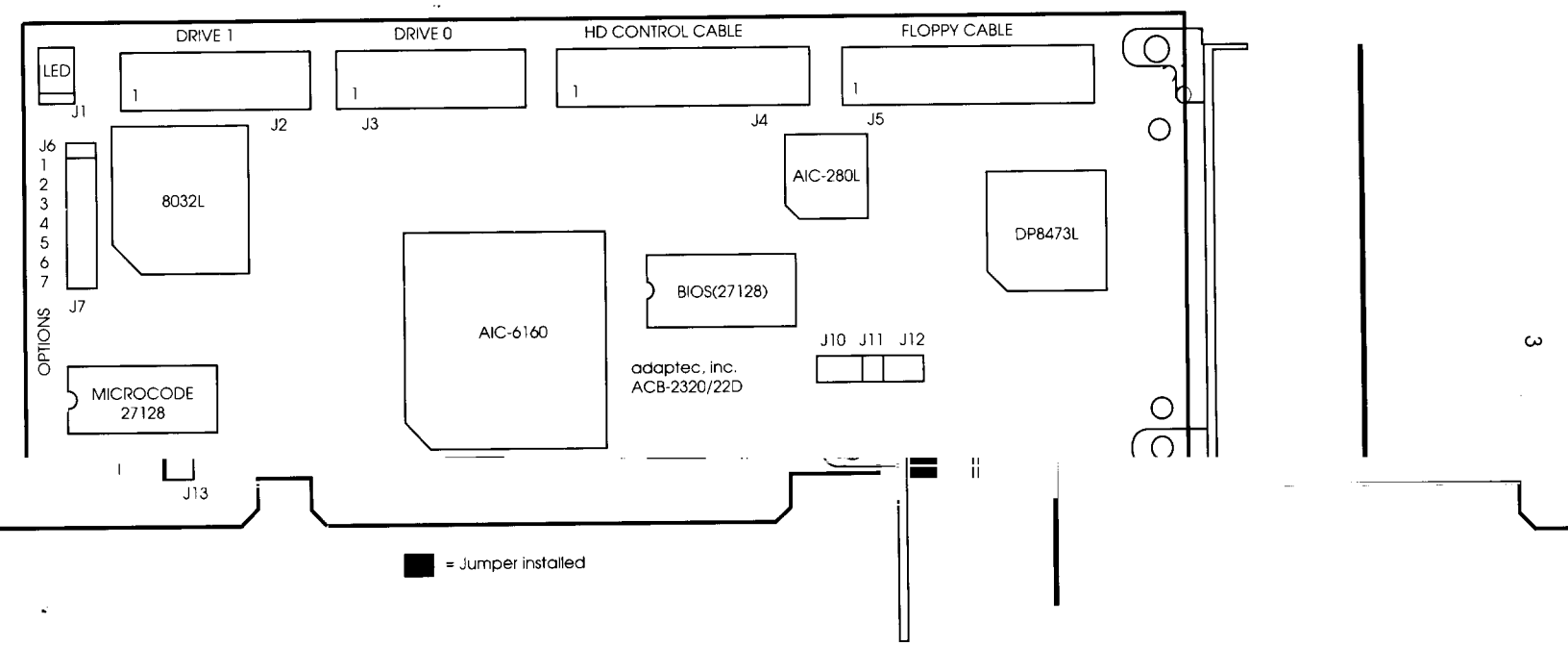
...-232XD
...ator Guide

QUICK INSTALLATION

1. Install controller and drives into cable them together. Run a flo both floppy drives (ACB-2322D on the END of the cable goes t hard drive cable from J4 and c drives. Connect one 20-pin cab the first hard drive, and from J2 drive (if installed).
2. Run your PC AT "SETUP" and set 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
6. Choose: 1 - to primary-format c
7. The controller will read the num cylinders from the drive. The m list will also be read in.
8. Now just keep hitting <CR>, (ta
9. After format is complete, Choo program*. (Or 2 - to primary fo
10. Now you are ready to install yo software. Go to DOS FDISK anc STOR, DISK MANAGER, SCO XE

*Note: If you are using DOS and yo more than 1024 cylinders, selec enable 63-sector translation. G then install your operating syste

your PC AT, and
by cable from J5 to
ly). The connector
drive 0. Run a 34-pin
nnect to both hard
le each from J3 to
to the second hard
the hard drives to
be displayed.
rive 0.
ber of heads and
nufacturer's defect
take the defaults).
se q - to end this
nat the second drive)
ur hard drive has
l option 3, then
ull the program and



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CONNECTORS
J5 - FLOPPY DRIVE
J3 - HARD DRIVE 0. DATA CABLE
J2 - HARD DRIVE 1. DATA CABLE
J4 - HARD DRIVE CONTROL CABLE
J1 - DRIVE ACTIVITY LIGHT

* = as shipped
Out = No jumper installed
In = Jumper installed

JUMPERS				
J10-1	HARD DISK PORT ADDRESS *Out = 1F0-1F7 In = 170-177			
J10-2	FLOPPY DISK PORT ADDRESS *Out = 3F0-3F7 In = 370-377			
J10-3	FLOPPY DISK DISABLE *Out = Floppy enabled In = Floppy disabled			
J11-1	FLOPPY DRIVE SPEED *Out = Single speed In = Dual speed			
J12	BIOS ADDRESS	1	2	3
	*C8000	out	out	out
	CC000	in	out	out
	D0000	out	in	out
	D4000	in	in	out
	Disabled	out	out	in
	D8000	in	out	in
	DC000	out	in	in
J13	*1-2 IRQ 14 2-3 IRQ 15			

SOFTWARE OPTION JUM	
J7-1	NOT USED
J7-2	LOGICAL DRIVE SPL *Out = drive uses ph parameters In = Drive 0 is split in logical drives, (if over 1024 cylind
J7-3	RESERVED
J7-4	NOT USED
J7-5	READ AHEAD CACH *Out = Enabled In = No Read Ahea performed.
J7-6	RESERVED
J7-7	RESERVED