

SECTION 6. TESTING YOUR IBM PCjr

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Introduction

This section contains a set of step-by-step instructions that help you determine if your IBM PCjr is operating properly.

You will be asked to look at, or listen to, the way your IBM PCjr responds to what you ask it to do. You will then be asked questions about what you saw or heard. Some of the colors shown in this book may be different than the colors on your screen. This is because not all televisions and displays produce the same colors. When you are asked if your screen looks like an example in this book, the important things are the shapes of the color blocks and figures and the wording of the messages.

Important

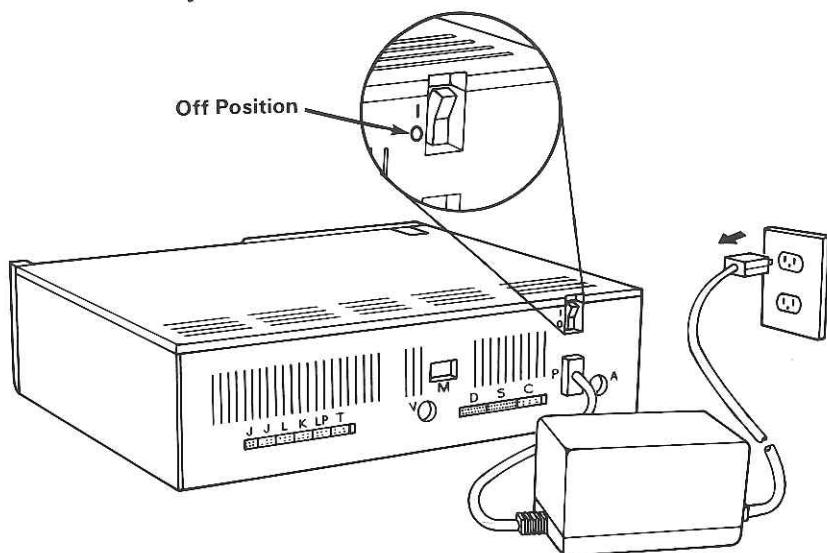
Whenever you have a suspected problem with your IBM PCjr and wish to run tests, always start with "First Things First" in this section.

Notes:

First Things First

CAUTION

Always turn your IBM PCjr power off and unplug the power cord from the wall outlet before checking any cables, or when installing options to your system.



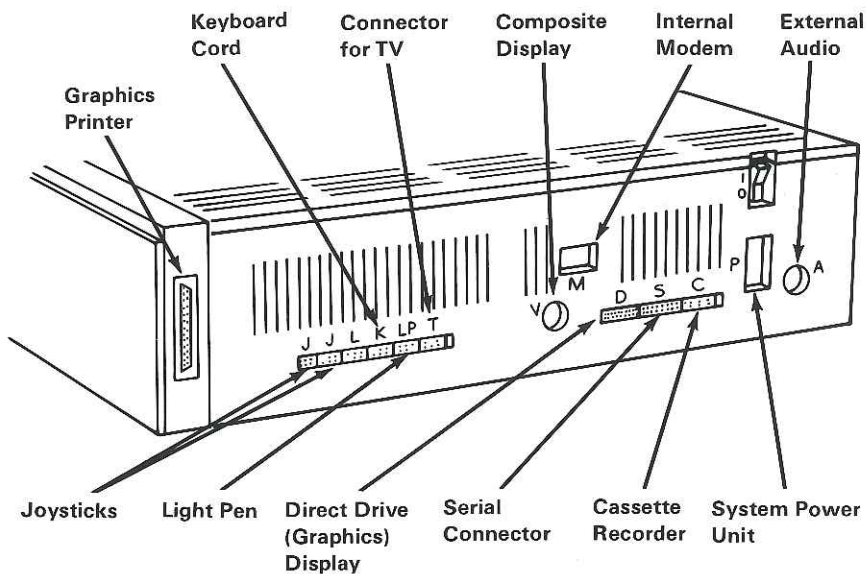
- 1 Turn your IBM PCjr power off. Go to Step 2.
- 2 Turn power off on everything attached to your IBM PCjr (printers, Television, etc.). Go to Step 3.
- 3 Unplug your IBM PCjr and your display or television power cords from the wall outlet. Go to Step 4.

4

Remove all non-IBM attachments and cables except the display or television and the IBM Connector for Television. Go to Step 5.

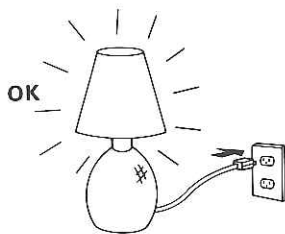
5

Be sure all other cables are inserted into the rear of your IBM PCjr correctly. Go to Step 6.



6

Check the wall outlet by plugging in a working lamp and switching it on. Go to Step 7.



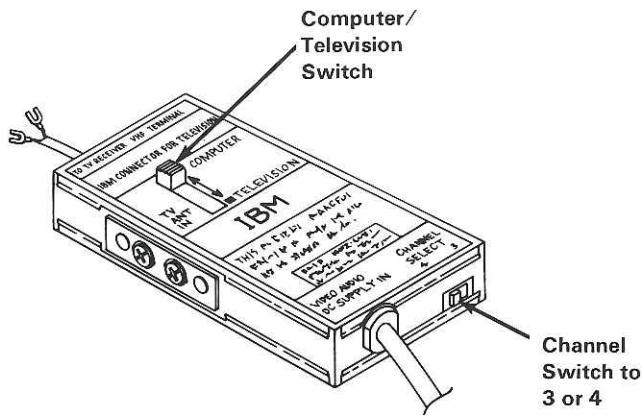
7

If you are not using a television, go to Step 9.

If you are using a television select either channel 3 or 4 (whichever one is not used in your area). Go to Step 8.

8

If you are using a television, set the Computer/Television switch on your IBM Connector for Television to "Computer" and the Channel switch to the same channel you selected for your television. If the channel you select does not seem to work well try the other. Make sure the IBM Connector for Television is connected to the VHF terminal on your television. Go to Step 9.



9

Plug your television or display into a working wall outlet. Turn your display or television power on. Go to Step 10.

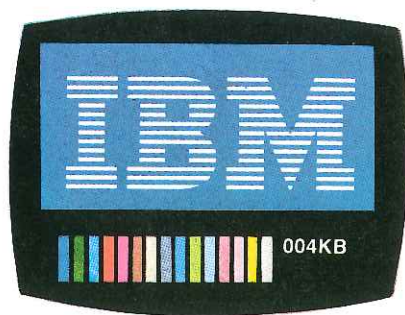
10

If you have any cartridges or diskettes in your IBM PCjr, remove them.

Before you turn your IBM PC^{jr} power on, let's review the three things that should happen when you do.

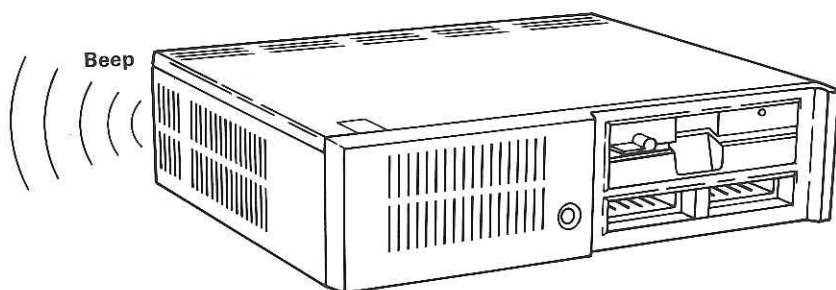
FIRST

The IBM Color Bar Screen with correct memory appears.



SECOND

One beep from the system unit.



THIRD

The IBM Personal Computer BASIC Message Screen appears.

The IBM Personal Computer Basic
Version C1.20 Copyright IBM Corp.1981
XXXXXX Bytes free
OK
—

1 **LIST** 2 **RUN-** 3 **LOAD** 4 **SAVE** 5 **CONT-**

11 Plug your IBM PCjr into a working wall outlet. Go to Step 12.

12 Turn your IBM PCjr power on.

Did the three responses occur?

YES - Go to Step 13.

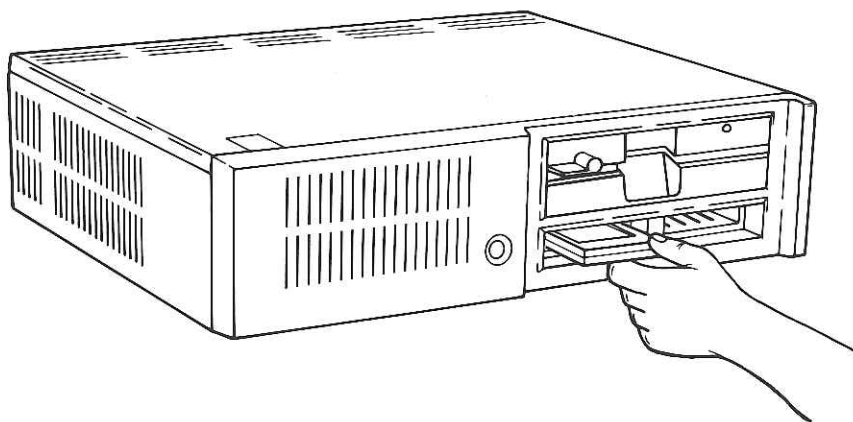
NO - Go to Step 21.

13 If you do not have a cartridge, go to Step 20.

If you do have a cartridge, insert it into the left cartridge slot of your IBM PCjr as shown below.

Hold your cartridge with the label side up so you can read it.

Firmly slide the cartridge into either slot until it snaps in place. If it does not snap in place make sure you have the label side up.



When a cartridge is inserted, your IBM PC*jr* resets as if you had just performed a reset from the keyboard. The screen clears and then the cartridge program screen appears.

After the screen clears, does the cartridge program screen appear?

YES - Remove the cartridge and go to Step 14.

NO - Remove the cartridge and go to Step 16.

14

Insert the cartridge into the right cartridge slot of your IBM PC*jr*.

After the screen clears, does the cartridge program screen appear?

YES - Go to Step 20.

NO - Go to Step 15.

15

Remove the cartridge and reinsert it.

After the screen clears, does the cartridge program screen appear?

YES - Go to Step 20.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

16

Insert the cartridge into the right cartridge slot of your IBM PCjr.

After the screen clears, does the cartridge program screen appear?

YES - Remove the cartridge and insert it into the left cartridge slot again. Go to Step 17.

NO - Remove the cartridge and go to Step 18.

17

After the screen clears, does the cartridge program screen appear?

YES - Go to Step 20.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

18

If you have another cartridge, insert it into the left cartridge slot. Go to Step 19.

If you do not have another cartridge, have your IBM PCjr serviced. See "Service Information" in this section. (Your cartridge may not be working, so keep it with your IBM PCjr.)

19

After the screen clears, does the cartridge program screen appear?

YES - The first cartridge you inserted is not working correctly and may need to be replaced. If you wish to continue with testing your IBM PCjr, Go to Step 20.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

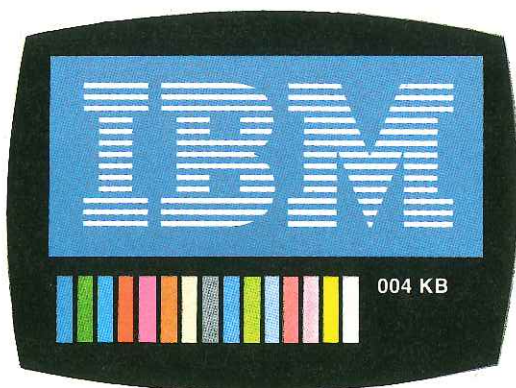
20

If you have a cartridge in your IBM PCjr remove it. Go to "Running the IBM PCjr Tests" in this section.

21

You are here because you did not receive the three correct responses when you turned your IBM PCjr power on.

Did the IBM Color Bar screen appear?



YES - Go to Step 22.

NO - Go to Step 24.

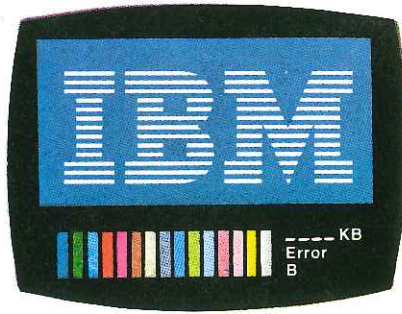
22

Did the letters IBM appear correctly in the box at the top of the screen?

YES - Go to Step 23.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

Does the word "ERROR" and a letter appear in the lower right-hand corner of your screen?



YES - Follow the instructions found in the Error Message Table starting on the next page.

NO - Go to Step 24.

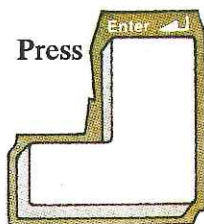
Error Message Table

ERROR	ACTION
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A	Have your IBM PCjr serviced. See "Service Information" in this section.
D	
G	
X	

B	Keyboard Problem This error may be caused by extremely bright light (such as direct sunlight or bright fluorescent light). Move your IBM PCjr away from the bright light and turn the power on. If you still get this error have your IBM PCjr serviced. See "Service Information" in this section.
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C	Cassette Problem If you want to use your IBM PCjr without using your cassette
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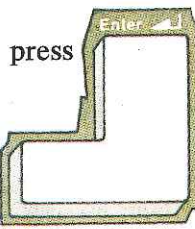


If you want to use a cassette recorder, have your IBM PCjr serviced. See "Service Information" in this section.

E

Modem Problem

If you want to use your IBM PCjr without using your modem

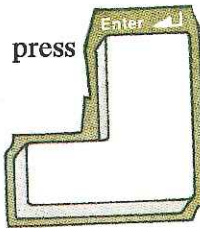


If you want to use a modem, have your IBM PCjr serviced. See "Service Information" in this section.

H

Diskette Problem

If you want to use your IBM PCjr without using the diskette drive,



If you want to use the diskette drive, have your IBM PCjr serviced. See "Service Information" in this section.

24

Did you hear any beeps?

YES - Go to Step 25.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

25

Did you hear just one beep?

YES - Go to Step 26.

NO - Have your IBM PCjr serviced. See "Service Information" in this section.

26

If you have a television, go to Step 27.

If you have an IBM Personal Computer Color Display, go to "IBM Color Display Check Out Procedure" in this section.

If you have an IBM PCjr Color Display, go to the "IBM PCjr Color Display Check Out Procedure." This is in the "IBM PCjr Color Display Installation and Operating Instructions," in Section 5, "The IBM PCjr Options."

If you have any other display, make sure the display is working correctly. If the display is working correctly, have your IBM PCjr serviced. See "Service Information" in this section.

- 27** Turn your television power off. Go to Step 28.
- 28** Disconnect your IBM Connector for Television from the rear of your IBM PCjr. Go to Step 29.
- 29** Set the Computer/Television switch on the IBM Connector for Television to "Television". Go to Step 30.
- 30** Set your television channel to a local station. Go to Step 31.
- 31** Turn your television power on.

Does your television work?

YES - Have your IBM Connector for Television and your IBM PCjr serviced. See "Service Information" in this section.

NO - Connect your IBM PCjr to a working television.