

Portable Disk Drive

OPERATION MANUAL

Cat. No. 26-3808



The FCC Wants You to Know

This equipment generates and uses radio frequency energy. If not installed and used properly, that is, in strict accordance with the manufacturer's instructions, it 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 the 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, you should consult the dealer or an experienced radio television technician for additional suggestions. You 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 US Government Printing Office, Washington, DC 20402, Stock No. 904-000-00345-4.

Warning

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals (computer input output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this computer. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

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Introduction

Congratulations on your purchase of the TANDY Portable Disk Drive.

Your Portable Disk Drive interfaces to your Portable Computer through the RS-232C port and may be powered by batteries for maximum portability. Its compactness and light weight enable you to carry it along with your Portable Computer. Although tiny in size, a 3.5-inch diskette can store up to 100,000 bytes of data.

Now you can utilize your Portable Computer to its greatest potential without worrying about a shortage of memory space.

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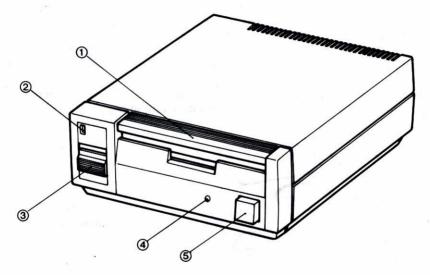
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Description of the Portable Disk Drive

Open the package and take out the Portable Disk Drive. Do not throw away the packing material or the box. They may be useful if you ever need to transport the Portable Disk Drive.

The Portable Disk Drive package includes:

- a Portable Disk Drive
- a Utility Diskette
- a cable for connection to a Portable Computer



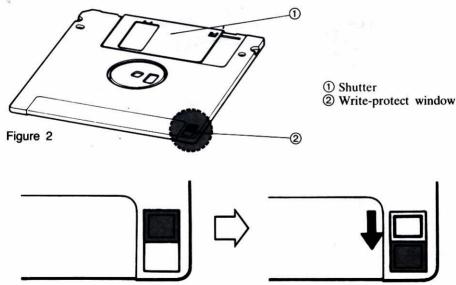
- 1 Disk In/Out Bar
- 2 Low Battery Indicator
- 3 Power Switch
- Access Indicator
- S Eject Button

Figure 1

Diskette

Always handle your diskettes carefully. Take the same precautions you would use with your music cassettes and high-fidelity phonograph records. A small indentation, dust particle or scratch can render all or part of a diskette unreadable — permanently!

- 1. Always remove a diskette from the Drive before turning the system on or off. (Do not eject a diskette when the access indicator is lit.)
- 2. Keep diskettes away from magnetic fields (transformers, AC motors, TVs, radios, etc.). Strong magnetic fields will erase data stored on a diskette.
- 3. Handle a diskette with the shutter closed. (Refer to Figure 2 below.) Do not touch any of the exposed surfaces. Do not try to wipe or clean the diskette surface; it scratches very easily.
- 4. Keep diskettes out of direct sunlight and away from heat.
- 5. Avoid contaminating diskettes with cigarette ashes, dust or other particles.
- **6.** In extremely dusty environments, you may need to provide filtered air to the room where you use your Portable Computer.



When the write-protect tab is positioned so that the window is closed, data can be written to the diskette.

When the tab is positioned so that the window is open, data is write-protected.

Figure 3

Figure 4

Installation

Connecting to the Portable Computer

Connect the Portable Computer and the Portable Disk Drive using the connection cable referred to in Figure 5. The larger connector plugs into the RS-232C port on the rear side of the Portable Computer; the smaller connector plugs into the RS-232C port on the rear side of the Portable Disk Drive. Both plugs are asymmetrical, so if a plug can't be inserted easily, don't force it. Just turn the plug over and try again. Be sure that the cable connections are secure. Loose connections will cause problems since data is transferred through this cable.

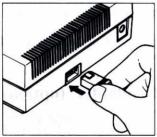
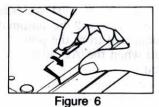


Figure 5

Battery installation



1. Press the tab as illustrated in Figure 6. Remove the battery compartment cover.

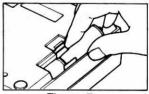


Figure 7

- 2. Insert four "AA" batteries. Be sure the batteries are set in the battery compartment as shown in Figure 7.
- 3. Replace the battery compartment cover.

With four new alkaline batteries, the Portable Disk Drive can operate continuously for up to two full hours. When the low battery indicator lights up, you should still have approximately 30 minutes of continuous operating time left. No operation will occur if the batteries are too low; in fact, the low battery indicator will not even light up.

Notes:

- A)When the batteries become weak, the low battery indicator will light up. When this happens, replace all four batteries with new ones. We recommend our 23-552 alkaline batteries.
- B) Turn off the power switch when the unit is not being used. If the unit will not be used for a long time, or if the AC adapter is to be used for an extended period of time, remove the batteries to avoid damaging fluid leakage.

(Be aware that even commercially available batteries which are guaranteed may sometimes leak.)

Connecting the AC adapter (option)

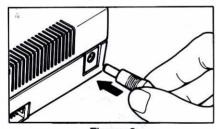


Figure 8

Connect the AC adapter (Cat. No. 26-3804) to the DC6V jack, and then plug the adapter into a wall outlet.

Notes:

- A)Use only the 26-3804 AC adapter.
- B) The batteries will be automatically disconnected from the power supply circuit when the AC adapter is connected.
- C) If the unit will not be used for a long period of time, disconnect the AC adapter from both the wall outlet and this unit's jack.
- D)Don't connect and disconnect the AC adapter while the disk is inserted in the unit.

System start-up

Be sure that the cable connections are secure and that the batteries have been installed or the AC adapter has been connected according to the instructions in the **Installation** section.

If you are ready, start-up the Portable Disk Drive by following the procedure below.

Note: This software cannot be used with any Portable Computer operating in conjunction with the Disk/Video Interface (Cat. No. 26-3806).

Setting the system disk

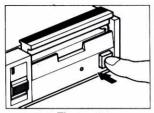


Figure 9

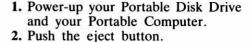




Figure 10

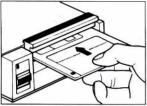




Figure 11

3. Insert the utility disk (that was provided) with the label side up, as shown in Figure 10.

Notes:

- A)Use only a 3.5-inch floppy disk.
- B) If you insert the disk with the wrong side up, damage to the diskette will occur.
- 4. Push down on the disk in/out bar until it snaps into place.

Note: To remove the disk from the unit, push the eject button. If the diskette doesn't pop out the first time, just press the eject button again.



When the access indicator is lit, don't remove the disk from the unit.

Figure 12

Loading the file management software

- 1. Before loading the file management software into your Portable Computer, be sure that all of the DIP switches are in the ON position. (Refer to the next section, Setting the DIP switches of the Portable Disk Drive.)
- 2. Turn on the Portable Computer and the Portable Disk Drive. Insert your utility diskette.
- 3. You will automatically enter the main Menu of the Portable Computer. With the cursor over the word BASIC, press ENTER.

4. Type in the following program (Be sure to use all capital letters):

10 OPEN"COM: 88N1DNN"FOR OUTPUT AS#1 20 PRINT#1, "S10985157C00AD7EF08B3AS901FE" 30 LOAD"COM: 88N1ENN".R SAVE" IPL. BA"

5. To exit BASIC and return to the Menu, press F8.

6. Highlight the program name IPL. BA with the cursor. Then run the program simply by pressing **ENTER**. The following meassage will be displayed:

---INITIAL PROGRAM LOADER---WAIT A MINUTE!

now loading file-manager

Notes:

A)If this message does not appear on the LCD, you may have made a mistake in programming. Press SHIFT BREAK; when the Ok prompt appears, type: LOAD" IPL". List and check the program; edit it, if necessary. Then run the program again.

B) If "?OM Error" appears on the screen, your Portable Computer does not have enough free memory to run the IPL program. (You need at least 8K of free RAM.) To resolve this problem, just kill some files and

try again.

C) If the low battery indicator on the Disk Drive flickers, the DIP switches on the bottom of the Portable Disk Drive are not set correctly. See the next section (Setting the DIP switches of the Portable Disk Drive) and set all four switches to the ON position. Then begin again with step 2.

D)After running the IPL program, the terminal settings for Telcom will need to be changed back to your normal settings. Refer to your Portable Computer owner's manual for information on changing these settings.

E) Check your system date and time. Loading the file management software may cause this date and time to change.

7. After about 20 seconds, the LCD will return to the Menu automatically. You will find "FLOPFY.CO" in the Menu.
Now all of the file management programs are stored in the RAM of the Portable Computer.

Note: "FLOPPY.CO" is the file name of the file management program. If you do not find "FLOPPY.CO" on the main Menu, the program was not successfully loaded. Chances are that there was not enough free memory. (You need to have at least 8K of free RAM available.) Kill some files and try again, beginning with step 2 above.

8. If you should have any problems with your system locking up while loading "FLOFFY.CO", press SHIFT BREAK to free up the system and F8 to return to the main Menu. Eject the diskette and turn the Portable Disk Drive's power switch to OFF; then begin again with step 2 above.

Setting the DIP switches of the Portable Disk Drive

Before you use the Portable Disk Drive, set the DIP switches on the bottom side of the Portable Disk Drive. Follow these steps.

- 1. Remove the diskette from the Portable Disk Drive.
- 2. Turn off the power switch of the Portable Disk Drive.
- 3. Turn the Portable Disk Drive upside down, and you will see the DIP switch cover.
- **4.** Remove the DIP switch cover by inserting the tip of a pen or a screwdriver into the small opening so that the cover pops off. Then you will be able to see all four switches.

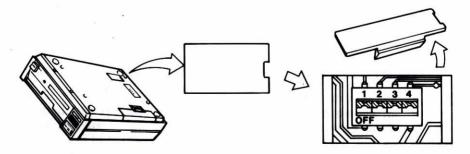


Figure 13

5. Change the position of the four switches to the OFF position if you will now be using the file management program. Change the switch positions to ON if you are just starting-up the system and loading the file management program.

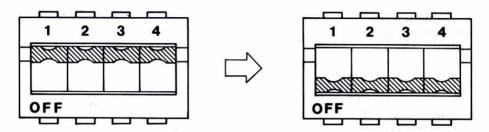


Figure 14

Important Note!

If you don't set the DIP switches, the file management software will not work. If you try to use it without setting these switches, the low battery indicator of the Portable Disk Drive will flicker on and off very fast to remind you. Remove the diskette from the Drive, turn off the power and set the DIP switches to their correct positions.

File management functions

The Portable Disk Drive performs the following file management functions:

Command	Key	Function			
Files	F1	Displays the file names of all the DO, BA and CO files on			
Intercentary		the disk to the Portable Computer's LCD.			
Load	F2	Loads the DO , BA or CO file on the disk to the Portable Computer.			
Save	F3	Saves the DO, BA or CO file in the RAM of the Portable Computer to the disk.			
Bkup	F4	Duplicates information from one disk to another.			
Kill	F5	Erases the DO, BA or CO file on the disk.			
Name	F6	Changes the file name on the disk.			
Format	F7	Formats the disk.			
Menu	F8	Exits and returns to the main Menu of the Portable Computer.			

Table 1

File management start-up

Before you start-up the system, make sure that the DIP switches are set correctly. (Refer to Setting the DIP switches of the Portable Disk Drive.)

- 1. Turn on the power switches of the Portable Computer and the Portable Disk Drive. Insert a diskette.
- 2. In the main Menu on the LCD of the Portable Computer, move the cursor to FLOPPY.CO and press ENTER.
- 3. The following command menu appears on the LCD:

Disk File Manager Ver.01.00.00

00:00:00

F1: Files F2: Load F3: Save F4: Bkup F5: Kill F6: Name F7: Format F8: Menu

Select F1 - F8 ?

xxxxx Bytes free

00:00:00 is "hour:minute:second" which is the same as the time shown on the main Menu.

xxxxx Bytes free indicates the amount of free RAM available in your Portable Computer.

4. By pressing any of the F1 - F8 keys, you can select and execute the commands of the file management program.

Notes:

A)If you should choose to load another machine language program (e.g., Spectaculator) into the RAM of your Portable Computer, that program may be written over the file management program that resides in high memory. If this happens, you will need to reload FLOPPY.CO into high memory. To do this, go into BASIC. If you are using a Model 100 Portable Computer, type: CLEAR 256,59400. For TANDY 200, type: CLEAR 256,57500. Exit back to the main Menu. Then highlight the file FLOPPY.CO and press ENTER to run the program.

B) Also note that, once loaded, FLOPPY.CO is stored in both high and low memory, even after you return to the main Menu (see the free memory number on the main Menu decreased). To clear the file management program from high memory, go into BASIC and type CLEAR 256, MAXRAM ENTER. To remove FLOPPY.CO from the main Menu, go into BASIC and type:KILL"FLOPPY.CO. This will completely eliminate FLOPPY.CO from your Portable Computer.

Commands

Files

1. When the command menu appears on the LCD, press [F1].

2. All file names and their file size (in bytes) will be displayed. For example:

AMERIC.DO	2300	BCC	.BA	699
CANADA.DO	5829	F5HC	.BA	59
TTCFG .BA	49	WGH50	.co	2119

Note: File names are displayed with up to 12 or 28 names on one screen, depending on the Portable Computer you are using. If there are more than 12 or 28 names, press any key. Then the rest of the file names will be displayed on the next screen. There can be a maximum of 40 file names on each diskette.

3. At the bottom of the last screen of file names on the disk, you will see the amount of free space available on the disk.

For example:

4. Press any key, and the LCD will return to the command menu.

Load

1. When the command menu appears on the LCD, press F2.

2. The Portable Computer will ask you which file you want to load from the disk.

File Load

File Name on Disk:

3. After you type in the file name with the appropriate extension (e.g., TANDY.DO ENTER), the Portable Computer will ask you for the file name in RAM to which this disk file is to be loaded.

File Name on RAM :

If you want to assign the same file name as on disk, just press **ENTER**. The Portable Computer will name the file in RAM the same as on disk.

Note: The extension (file type, .DO, .BA, .CO) of the file name in RAM will automatically be the same as on the disk file name, even if you don't key it in. If you key in a different extension, the Computer will disregard it and make the extension the same anyway.

4. If the file name designated in step 3 already exists in RAM, the Portable Computer will ask you:

Already Exists. Are you sure? (Y/N)

If you want to overwrite the existing file in RAM and load the file from disk, press Y ENTER.

If you don't want to overwrite the existing file in RAM, press NENTER.

Then the LCD will return to the command menu.

Note: If the free RAM area on the Portable Computer is not sufficient to load the file, "Lack of Space" will be displayed. This means you will need to kill some files.

5. After loading a file, you will see the following message:

Ok Hit any Key.

6. Press any key, and the LCD will return to the command menu.

Save

- 1. When the command menu appears on the LCD, Press [F3].
- 2. The Portable Computer will ask you which file you want to save from RAM:

File Save

File Name on RAM:

3. After you type in the file name with the appropriate extension (e.g., AAA.DO ENTER), the Portable Computer will ask you for the file name on the disk to which the RAM file is to be saved.

File Name on Disk:

If you want to assign the same file name as in RAM, just press ENTER. The Portable Computer will name the file on disk the same as in RAM.

Note: The extension (file type) of the file name on disk will automatically be the same as that of the RAM file, even if you don't key it in. If you key in a different extension, the Computer will disregard it and make the extension the same anyway.

4. If the file name designated in step 3 already exists on disk, the Portable Computer will ask you:

Already Exists. Are you sure? (Y/N)

If you want to overwrite the existing file on disk and save the file from RAM, press Y ENTER.

If you don't want to overwrite the existing file on disk, press N

Then the LCD will return to the command menu.

Note: If the free area on the disk is not sufficient to save the file, "Lack of Space" will be displayed. This means you will need to kill some files or use another disk with more free area.

5. After saving a file, you will see the following message:

Ok Hit any Key.

6. Press any key, and the LCD will return to the command menu.

Note: If you attempt to save a file to a diskette that is only partially formatted, the file may not be properly saved, even though the "Ok" prompt appears on the LCD. After you save a file on a newly-formatted disk, press F1 (the Files command) to be sure the file was properly saved. If it was not, begin again by re-formatting the disk.

Bkup

Note: Before you execute the Bkup command, write-protect the source diskette so that source data will not be erased. Follow the instructions in the Diskette section.

- 1. When the command menu appears on the LCD, press F4.
- 2. The following message will appear on the LCD:

Insert Blank Disk. Are you sure? (Y/N)

After you insert the blank disk, press Y ENTER. If the disk contains data, the Portable Computer will ask you:

Diskette Contains Data. one des live some Continue? (Y/N)

If you want to retain the data and stop the backup procedure, respond by pressing N ENTER; the display will return to the command menu. If you want to continue, respond by pressing Y ENTER.

The Portable Disk Drive will begin formatting the blank disk and the message "Formatting..." will be displayed on the LCD at the same time. It will take about 100 seconds.

3. After formatting, the following message will be displayed:

Insert Source Disk, then Hit any Key. [Reading

hard sector No.]

After you insert the source disk, press any key.

4. The following message will be displayed:

Disk, then Hit any Key. [Writing Insert Blank hard sector No.] and returned this CDL add base red on rest of

After you insert the blank disk again, press any key.

5. Repeat steps 3 and 4, until all data is copied from the source disk to a blank disk.

Note: The number of hard sectors copied at one time depends on the amount of free space available in RAM.

If a lot of free space is available in RAM, fewer disk changes will be required.

For your reference, the hard sector number being accessed is displayed at each Bkup operation.

After backing-up all data, you will see the following message:

Ok Hit any Key.

6. Press any key, and the LCD will return to the command menu.

Note: If a mistake is made in the disk change operation, or if an error has occurred, the LCD will prompt you as follows:

Abort Continue? (Y/N)

A)If you want to attempt the backup procedure again, press Y ENTER. The following message will be displayed:

Insert Source Disk, then Hit any Key.

Proceed to backup according to the messages on the LCD, as in steps 3 and 4 above.

B) If you want to stop the backup procedure, press N ENTER. The LCD will return to the command menu.

Notes:

- A)To stop the backup procedure once it has begun, press SHIFT BREAK.
- B) Use the F1 command to verify that a complete backup was accomplished.

Kill

1. When the command menu appears on the LCD, press F5. The Computer will ask you for the name you want to erase.

Erase File Name:

2. After you type in the file name (e.g., USA. DO ENTER), the Portable Computer will make sure you want to erase the file:

Are you sure? (Y/N)

A)If you key in Y ENTER, the file will be erased and you will see the following message:

Ok Hit any Key.

The LCD will return to the command menu.

B) If you don't want to erase this file, press N ENTER.

The LCD will return to the command menu.

Name

- 1. When the command menu appears on the LCD, press F6.
- 2. The Portable Computer will ask you which file you want to rename:

Rename Old File Name on Disk:

3. After you key in the file name (e.g., TANDY.DO ENTER), the Computer will ask you for the new file name.

New File Name on Disk:

the the Fill continuend to verify that a complete backup was a complete backup was a

4. Key in the new file name (e.g., RADIOS.DO ENTER).

If a file with the same name as the one you just entered already exists on disk, the Computer will tell you:

Already Exists Hit any Key.

Press any key, and the LCD will return to the command menu.

Note: The extension (file type) of the file name in the new name will be the same as in the old one, even if you don't key it in.

If you key in a different extension, the Computer will disregard it and make the extension the same anyway.

Sometimes it will take 20 seconds to execute a rename.

5. After renaming, you will see the following message:

Ok Hit any Key.

The LCD will return to the command menu.

Note: Do not press SHIFT BREAK to stop renaming.

Format

- 1. When the command menu appears on the LCD, press F7.
- 2. The Portable Computer will make sure you want to format the disk.

Format. Are you sure? (Y/N)

A)After you insert the disk, press Y ENTER. If the disk contains data, the Portable Computer will ask you:

Diskette Contains Data. Continue? (Y/N)

If you want to retain the data and stop the formatting procedure, respond by pressing N ENTER; the display will return to the command menu. If you want to continue, respond by pressing Y ENTER. While the Portable Computer is formatting the disk, the LCD will display the message "Formatting ...". It will take about 100 seconds to format.

After formatting, you will see the following message:

Ok Hit any Key.

Press any key, and the LCD will return to the command menu.

B) If you don't want to format the disk, press N ENTER.

The LCD will return to the command menu.

Note: If you interrupt the formatting process by pressing SHIFT BREAK, the Portable Disk Drive will continue to access the disk. If this happens, the disk may not be completely formatted.

Menu

When you want to return to the main Menu of the Portable Computer, press F8. The LCD returns to the main Menu.

When errors occur in the system, the display will show an error message. These error messages are listed below, along with some possible causes for each one. If you should get an error message, press any key to return to the command menu.

Drive not Ready

- 1. The Drive is not turned on or batteries installed in the Drive are exhausted.
- 2. The cable is not connected.
- 3. The Drive has a mechanical problem.
- 4. The Drive is formatting a disk.
- 5. DIP switches are set to ON.

Communication Error

- 1. During communication with the Computer, the power to the Drive is cut off.
- 2. During communication with the Computer, the cable is disconnected from the Portable Computer and/or from the Drive.
- 3. During communication with the Computer, a checksum error occurs.

Abort

- 1. By pressing SHIFT BREAK, the command being executed is stopped.
- 2. Abort occurs if you change the diskette while executing the Name command.

File not Found

1. The file designated doesn't exist in the RAM of the Computer or on disk.

Already Exists

1. The file designated already exists in the RAM of the Computer or on disk.

Lack of Space

- 1. The free area for creating a new file is lacking in the RAM of the Computer or on disk.
- 2. When executing the Name or Bkup command, the working area in the RAM of the Computer is insufficient.

Error messages

Write Protected

1. The disk is write-protected; the Drive cannot write the data to the disk.

Hard Trouble

1. When this message is displayed, return to the command menu; eject the diskette and turn the Drive off and on. If this message is still displayed repeatedly, there is a mechanical problem in the Drive.

Disk I/O Error

- 1. The data on the disk is destroyed.
- 2. The disk is not formatted.
- 3. The disk is physically damaged.
- 4. The Drive has a mechanical problem.

Disk not In

1. The disk is not inserted in the Drive.

File Empty

1. An attempt was made to save a file with no data.

Invalid File Type Landau and 1 MA 1983

1. An attempt was made to load a file type other than .BA, .DO or .CO.

Appendices

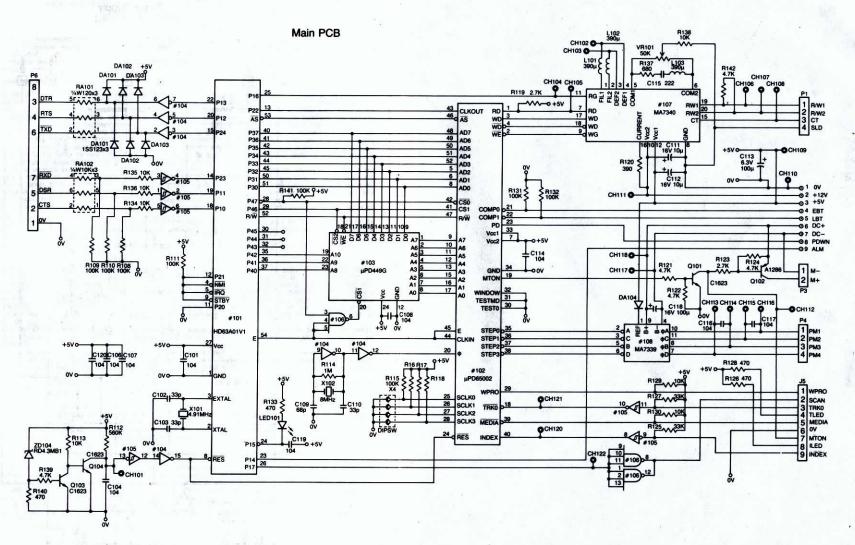
ero monaga.

Specifications A

Storage capacity (Formatted)	dynamicos e y con-
Per disk	101.12K bytes
Per track	
Per hard sector	그리 아이들이 하나 아이를 하는데 하는데 그렇게 살아왔다면 그렇게 두 이 있다면 하다.
and the standard of the second	1,200 oytes
zapit same ti	
Disk Annual Control of the Control o	
Number of surfaces Number of memory blocks	
Total number of tracks	40
Total number of hard sectors	
An analysis and the	
Recording systems	ture/
Recording method	FM
Recording density	
Track density	
Data transfer rate	
2 Commercial States of Commercial States	
Process time	
Average access time	820 ms
Track to track	
Settling time	20 ms
Motor start time	1 s
105-C-231	
Rotational speed	300 rpm
London	
Number of Index	2
Power sources	4 AA alkaline batteries
TOTAL SOULES	(Cat. No. 23-552)
	or
	AC Adapter
The state of the s	(Cat. No. 26-3804)

Power consumption			1.5 W 0.16W
Battery life		Continuous Minimum 2 Waiting only Minimum 10	hours
Low Battery			
Weight		1 lb 14 oz 850 grams (Including 4	
Dimensions	5-1/4" × 6-13/32" × 2-1/8" 133 (W) × 163 (L) × 54 (H) m/m		
Media used		3.5-inch mic	mir galitee
Interface			
Transfer rate		Booting Operating	9600 bits/sec. 19200 bits/sec.

Schematic diagram B



NOTES: A) RATED POWER OF UNSPECIFIED RESISTOR: 1/8W B) #104: TC50H000F, #105: TC4584F, #106: TC40H010F

SERVICE POLICY

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Radio Shack's nationwide network of service facilities provides quick, convenient, and reliable repair services for all TANDY/Radio Shack computer products, in most instances. Warranty service will be performed in accordance with Radio Shack's Limited Warranty. Non-warranty service will be provided at reasonable parts and labor costs.

Because of the sensitivity of computer products, and the problems which can result from improper servicing, the following limitations also apply to the services offered by Radio Shack:

- If any of the warranty seals on any Radio Shack and Tandy computer products it sells are broken, Radio Shack reserves the right to refuse to service the product or to void any remaining warranty on the product.
- 2. If any computer product purchased from Radio Shack has been modified so that it is not within manufacturer's specifications, including, but not limited to, the installation of any non-Radio Shack parts, components, or replacement boards, then Radio Shack reserves the right to refuse to service the product, void any remaining warranty, remove and replace any non-Radio Shack part found in the product, and perform whatever modifications are necessary to return the product to original factory manufacturer's specifications.
- The cost for the labor and parts required to return the computer product to original manufacturer's specifications will be charged to the customer in addition to the normal repair charge.

CUSTOM MANUFACTURED FOR RADIO SHACK, A DIVISION OF TANDY CORPORATION

U.S.A.: FORT WORTH, TEXAS 76102 CANADA: BARRIE, ONTARIO L4M 4W5

TANDY CORPORATION

AUSTRALIA

BELGIUM

U. K.

91 KURRAJONG AVENUE MOUNT DRUITT, N.S.W. 2770 PARC INDUSTRIEL 5140 NANINNE (NAMUR) BILSTON ROAD WEDNESBURY WEST MIDLANDS WS10 7JN