

SHARP®

RAM FILE BOARD

MODEL

MZ-1R32

OPERATION MANUAL

FOREWORD

Thank you for your purchase of the SHARP RAM File Board, MZ-1R32. Please read this manual carefully for proper use. Also, be sure to keep this manual for later use. This manual should be helpful during use or when problem arise.

Note

Do not touch the bottom of this board or the ICs, because static electricity might damage the ICs.

Note that the aluminum foil lapping this board is to protect the ICs from static electricity. Be sure, therefore, to remove the foil immediately before installation.

Outline

The RAM file board contains 512 Kbyte RAM and is used to give additional memory to the computer.

Up to two RAM file board can be installed.

The added memory is used for the memory disk and printer buffer functions (described later) as well as for the system memory.

Applicable models

- MZ-5600 series
- MZ-5600A series

Note: An optional operating system supporting the RAM file board is required to use the RAM file board. (MS-DOS, CP/M-86: Use version 1.1A or higher.)

When using the MZ-5631/MZ-5631A/MZ-5641/MZ-5641A, the optional expansion unit is required in addition.

1. Features

The RAM file board is used for the following functions:

1 Memory disk

The memory disk (sometimes called RAM file) function can achieve much faster access to programs and data than a floppy disk or hard disk by using a part of memory for input/output of programs and data. Since the contents of memory disk will be cleared with power off to the computer, be sure to save any important files onto the disk before turning power off.

This function is very convenient for the temporary save of programs and data or for data search.

2 Printer Buffer

The printer buffer function can shorten the waiting time while printing by using a part of memory for buffer in which data from the computer will be stored. Programs can proceed to the next task after sending all data to be printed.

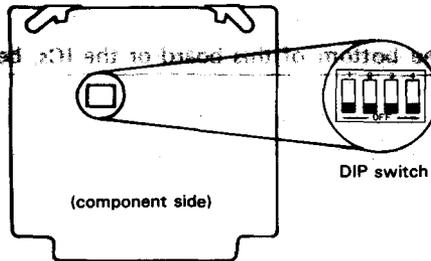
3 System Memory

128 Kbytes of memory on the RAM file board(s) can be used for the system memory to increase the memory of the computer from 512 Kbytes to 640 Kbytes.

Note: In the case of the MZ-5600, first increase the system memory to 512 Kbytes by installing the optional extension RAM board, then to 640 Kbytes by using the memory on the RAM file board.

2. DIP switch settings

First set the DIP switch as shown in the figure below.



	SW1	SW2	SW3	SW4	Switch settings	Description
First board (factory set)	OFF	OFF	OFF	OFF		384K bytes: Used as memory disk (printer buffer) 128K bytes: Used as system RAM (total system RAM capacity increases to 640K bytes)
First board	OFF	OFF	OFF	ON		All 512K bytes are used as memory disk (printer buffer)
Second additional	ON	OFF	OFF	OFF		All 512K bytes are used as memory disk (printer buffer) <i>Note:</i> When mounting the second board, be sure to set the DIP switches as illustrated. The wrong setting can cause the board's memory to be destroyed. The setting for the second board is similarly incorrect if only one board is mounted.

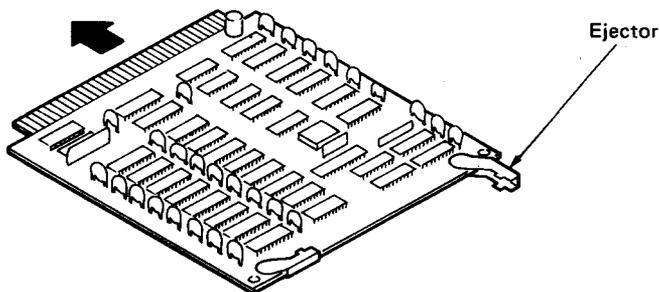
3. RAM file board and memory map

First board		Second board				
SW1	SW4	SW1	SW4			
OFF	OFF	/		C 0 0 0 0 H 7 6 5 4 3 2 1 0 A 0 0 0 0 H 7 6 5 4 3 2 1 0 8 0 0 0 0 H 7 6 5 4 3 2 1 0 128KB 384KB		
OFF	ON			C 0 0 0 0 H 7 6 5 4 3 2 1 0 A 0 0 0 0 H 7 6 5 4 3 2 1 0 8 0 0 0 0 H 7 6 5 4 3 2 1 0 512KB		
OFF	OFF			ON	OFF	C 0 0 0 0 H 7 6 5 4 3 2 1 0 A 0 0 0 0 H 7 6 5 4 3 2 1 0 8 0 0 0 0 H 7 6 5 4 3 2 1 0 128KB 896KB
OFF	ON			ON	OFF	C 0 0 0 0 H 7 6 5 4 3 2 1 0 A 0 0 0 0 H 7 6 5 4 3 2 1 0 8 0 0 0 0 H 7 6 5 4 3 2 1 0 1MB

Note: Set DIP switches 2 and 3 to OFF when installing the first and second boards.

4. Installation

- (1) Turn OFF the power switch of the computer.
- (2) Remove the screws first, and then the slot cover for the expansion unit (One of slot covers 1, 2, 3 and 4).
- (3) Insert the board into the slot along the slot guide, in the direction of the arrow.
- (4) Put the slot cover back and tighten it with the screws.



Notes:

- 1) Do not simultaneously install the RAM file board (MZ-1R32) and the Z-80 board (MZ-1M04)*. If these are mounted at the same time, memory on both boards may be destroyed.
- 2) When removing this board, pull out the ejectors at both ends (see right side of figure above), and then pull the board straight out with holding the ejectors.

* Subject to limited distribution.

5. Setting the Size

When using the memory on the RAM file board as the memory disk or printer buffer, specify their sizes using the operating system. (MS-DOS, CP/M-86: Use the IOCNF utility.)

For details, refer to the manual for your operating system.

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