There are two different versions of this cpu.

     The 25-5130 came with 2 MB of memory on the memory adapter board.
     The 25-5130A came with 1 MB of memory on the memory adapter board.

Memory Chip Kits -

256K SIMMS
     √25-5135 consists of two 256K X 9 SIMM chips at 80 nanoseconds.
     √25-5031 consists of four 256K x 9 SIMM chips at 100 nanoseconds. The
          individual chips can be ordered from Tandy National Parts under
          cat# 25-5130, part# MX-0384.

1MB SIMMS
      25-5137 consists of two 1 MB x 9 SIMM chips at 60 nanoseconds.
     √25-5134 consists of two 1 MB x 9 SIMM chips at 80 nanoseconds.
     √25-5033 consists of two 1 MB x 9 SIMM chips at 100 nanoseconds.

Memory Boards

     √25-6030 is a specialized 32-bit access memory expansion board for
          the 4033LX. This product can be ordered from Tandy National Parts
          under catalog #25-6030.

      Third Party - Memory expansion can also be accomplished by using a
          third party, 16-bit memory adapter. These types of adapter boards
          do not take advantage of the on-board 32-bit memory slots of the
          4033LX.

√ = Discontinued Radio Shack product

TANDY 4033LX - Expand from 1MB (25-5130A) or Expand from 2MB (25-5130)			
	First Memory Adapter	Second Memory Adapter	Add to Second Adapter
2MB	(4) MX-0384 (25-5130A)	N/A	N/A
4MB	N/A (25-5130)	25-6030	(8) MX-0384
	(4) MX-0384 (25-5130A)	25-6030	(8) MX-0384
4MB	(2) 25-5137 (replace existing chips)	N/A	N/A
8MB	(4) 25-5137 (replace existing chips)	N/A	N/A
10MB	(4) 25-5137 (replace existing chips)	25-6030	(8) MX-0384
16MB	(4) 25-5137 (replace existing chips)	25-6030	(4) 25-5137

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|     |     |                      |          |          |
| 25-6030 & MX-0384 are available from Tandy National Parts |
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Installing Additional Memory

The 4033 LX comes standard with either 1 MB or 2MB of high-speed RAM
upgradable to 16MB. It has two 32-bit memory expansion slots for the use
of 32-bit memory adapters (cat# 25-6030). It has one 32-bit memory
expansion adapter installed in Memory Expansion Slot 2 on the main logic
board. Refer Faxback Doc# 1657 for a diagram of the main logic board and
location of the memory expansion slots.

Fill this adapter with 1MB or 256K SIMMs, increases memory to 8MB.
Adding a second 32-bit memory adapter (cat# 25-6030) and SIMMs, increases
the memory to 16MB.

Each memory expansion adapter (cat# 25-6030) holds two banks of memory.
Four SIMMs are required to fill each bank. If you use 256KB SIMMs, one bank
equals 1MB. If you use 1MB SIMMs, one bank equals 4MB. The diagram below
shows two memory expansion adapters. Banks 0 and 1 are on the first adapter,
which is installed in Slot 2. Banks 2 and 3 are on the second adapter.

Installing a second 32-Bit Memory Adapter (cat # 25-6030)

The main logic board has a special bracket for the installation of a
second 32-bit memory expansion adapter. Follow these steps to attach
this bracket to the adapter and install the adapter in the computer:

1. If the adapter comes with a long mounting bracket, detach the
    bracket by removing the two screws that secure the adapter. You do
    not need this bracket.

2. The bracket on the main logic board has two screws - one attaching
    the bracket to the main logic board, the other for attaching the
    adapter to the bracket. Remove the screw that attaches the bracket
    to the main logic board.

3. Remove the adapter screw. Then, use it to attach the bracket to
    the SIMM side of the adapter.

4. Slide the end of the adapter with the newly attached mounting into
    the plastic guide slot at the front of the computer. Carefully
    slide the adapter down into the guide and into the memory expansion
    slot. Be sure that the adapter is fully seated and that the tab
    on the mounting bracket has entered the corresponding hole in
    the main logic board.

5. Use the main logic board screw (removed previously) to secure
    the mounting bracket to the main logic board.

Memory Configurations

The memory bank assignments, SIMM types, and number of SIMMs for each
adapter memory configuration are shown in the following table. The
computer is shipped with either 1 MB or the 2MB configuration indicated
in the table.

Total Memory	Memory Bank Assignment	SIMM Types	Total Number of SIMMs
First Memory Expansion Adapter Installed			
1MB	0	256KB x 9*	4
2MB	0,1	256KB x 9	8
4MB	0	1MB x 9	4
8MB	0,1	1MB x 9	8
First and Second 32-bit Memory Expansion Adapters Installed			
4MB	0,1,2,3	256KB x 9	16
10MB	0,1,2,3	1MB x 9 on first adapter 256KB x 9 on second adapter	8 @ 1MB 8 @ 256KB
16MB	0,1,2,3	1MB x 9	16
*The notation "x 9" indicates that each byte of the SIMM has eight data bits and one parity bit.			

When you add memory, remember:

° The first adapter is already installed in 32-bit Memory Expansion Slot 2. Use Slot 1 for the second memory adapter.

° This computer requires 100ns SIMMs.

° Add the new SIMMs using the configuration listed in the previous table.

° Refer to your SIMM kit installation documentation for more information, including instructions on removing SIMMs if necessary.

° Run the Setup program on the Utilities Diskette to complete the installation.

32-Bit Memory vs. 16-Bit Memory

The 16-bit standard expansion adapter slots can also be used for add-on memory, but the 32-bit memory expansion slots are preferred for three reasons:

° They provide much higher performance at a lower cost.

° Using the 32-bit slots leaves the six 16-bit slots open for other options.

° If you have any memory installed in the 16-bit slots and you add

a second 32-bit memory expansion adapter, the computer will no
longer recognize the memory in the 16-bit slots unless you
change the addresses on the 16-bit memory expansion adapter.
The addresses are usually set with DIP switches on the expansion
adapter. See the adapter documentation for more information.

IF you install standard 16-bit memory expansion adapters that uses
DRAM memory, be sure they have 150-nanosecond (150ns) or faster DRAM
memory.

NOTE: You do not have to set any jumpers or DIP switches on the
computer for standard 16-bit memory expansion adapters.