

Date & Time	Memory	Speed
Date [05/01/1991] Time [13:18:47]	Base [ 640K] Extended [ 1024K] Total = 1664K	CPU [Fast] BUS [Fast]
Hard Drives	Floppy Drives	Video
C: [ Non Standard ] D: [ None ]	A: [1.44M 3.5-inch] B: [None ] Startup floppy [A:]	Video [VGA or EGA]

<ESC> Exit to DOS without saving setup	<CTRL_BRK> Reboot without saving
<F1> Help for option that cursor is on	<SPACE> Toggles options
<F2> Save setup and exit	<ARROW> Moves to next option

-MORE-

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TYPE	HEAD	CYLINDER	PRECOMP	PARK	SECTORS	SIZE (Megabytes)
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SCSI

None

1	4	306	128	305	17	10
2	4	615	300	615	17	20
3	6	615	300	615	17	30
4	8	940	512	940	17	62
5	6	940	512	940	17	46
6	4	615	None	615	17	20
7	8	462	256	511	17	30
8	5	733	None	733	17	30
9	15	900	None	901	17	112
10	3	820	None	820	17	20
11	5	855	None	855	17	35
12	7	855	None	855	17	49

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< <input type="checkbox"/> > Next Line	< <input type="checkbox"/> > Previous Line
<PgDn > Next Page	<PgUp > Previous Page
<ENTER> Update and Return to Main Screen	
< ESC > Return to Main Screen Without Updating	
< F1 > Help	

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TYPE	HEAD	CYLINDER	PRECOMP	PARK	SECTORS	SIZE (Megabytes)
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13	8	306	128	319	17	20
14	7	733	None	733	17	42
15						
16	4	612	0	663	17	20
17	5	977	300	977	17	40
18	7	977	None	977	17	56
19	7	1024	512	1023	17	59
20	5	733	300	732	17	30
21	7	733	300	732	17	42

22	5	733	300	733	17	30
23	4	306	0	336	17	10
24	5	1024	0	1024	17	42
25	4	615	0	615	17	20
26	4	1024	None	1023	17	34
27	5	1024	None	1023	17	42

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< [ ] > Next Line                                      < [ ] > Previous Line  
<PgDn > Next Page                                      <PgUp > Previous Page  
<ENTER> Update and Return to Main Screen  
< ESC > Return to Main Screen Without Updating  
< F1 > Help

TYPE	HEAD	CYLINDER	PRECOMP	PARK	SECTORS	SIZE (Megabytes)
28	10	981	None	980	17	81
29	8	512	256	512	17	34
30	5	965	0	965	17	40
31	8	751	0	751	17	49
32	16	755	0	755	17	100
33	14	653	0	653	17	75
34	8	776	0	776	33	100
35	9	1023	None	1023	17	76
36	10	1024	1023	1023	17	85
37	5	989	128	989	17	41
38	5	1024	1024	1024	17	42
39	6	820	820	820	17	40
40	8	1024	1024	1024	17	68
41	6	306	153	306	17	15
42	16	993	0	993	17	131

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< [ ] > Next Line                                      < [ ] > Previous Line  
<PgDn > Next Page                                      <PgUp > Previous Page  
<ENTER> Update and Return to Main Screen  
< ESC > Return to Main Screen Without Updating  
< F1 > Help

TYPE	HEAD	CYLINDER	PRECOMP	PARK	SECTORS	SIZE (Megabytes)
43	16	684	0	684	38	203
44	12	804	0	804	36	169
45	11	794	0	794	53	226
46	12	1019	0	1019	53	316
Any	16	755	0	754	17	100

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< [ ] > Next Line                                      < [ ] > Previous Line  
<PgDn > Next Page                                      <PgUp > Previous Page  
<ENTER> Update and Return to Main Screen  
< ESC > Return to Main Screen Without Updating  
< F1 > Help

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Non Standard Hard Disk Drive

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Heads                                      [ 0]  
Cylinders                                   [ 0]

Precompensation

Cylinder # or 'NONE' [ 0]  
Head Landing Zone [ 0]  
Sectors Per Track [ 0]

Enter the above information from  
your hard drive users manual.

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< ESC > Return to Selection Screen  
<ENTER> Complete One Entry

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4020 SX SETUP

12/7/90

Your computer contains a battery-powered, real-time CMOS RAM chip that stores information about the drive, memory, and video support installed in your system. Use the Setup utility to record your current system configuration into CMOS RAM.

The battery that powers the CMOS RAM also supplies power to the internal clock. The clock maintains current date and time information. If the system clock fails to keep accurate time, it might indicate the CMOS RAM battery is weak. If you need to replace the battery, contact a Radio Shack Service Center or refer to "Replacing the Battery" in the "Installing Optional Hardware" section.

You must run the setup utility each time you:

- \* Install or remove a video display adapter, an optional diskette drive or hard disk drive, or memory
- \* Change the CPU clock speed.
- \* Replace the CMOS RAM battery.

The computer stores the hardware configuration record in memory until the battery fails or you change the information with the Setup utility.

SETUP CONFIGURATION SCREEN

The Setup utility summarizes your system configuration, as it is currently recorded in CMOS RAM, on a graphic screen. If you run Setup after receiving a power-on configuration error message, this screen is displayed automatically when you insert the Utilities Diskette and press F1. This screen is also displayed when you run Setup from the Utilities Menu.

From the configuration screen, you can:

- \* Enter the current date and time.
- \* Specify the amount of base memory and extended memory currently installed in the computer.
- \* Identify the type of video adapter in the computer.
- \* Set the CPU clock speed.
- \* Identify any hard disk drives installed in the computer. For non-standard drives, you can specify:
  - The number of heads
  - The number of cylinders
  - The number of the precompensation cylinder

- The head landing zone, where the heads are parked
- The number of sectors per track

NOTE: The computer supports up to 2 hard disk drives. Setup designates one drive as drive C, the other as drive D. Logical drives (partitions within a physical drive) are not recognized by Setup.

- \* Identify any diskette drives in your computer and enable or disable the on-board diskette drive controller.

The keys listed on the screen enable you to move among the various sections on the screen and provide the following functions:

- \* ESC - Ends Setup without saving the displayed configuration. Returns to the Utilities Menu (if you are using the Utilities Diskette) or the operating system prompt. If you changed any configuration settings, the changes will not be saved.
- \* F1 - Displays help about the currently highlighted field.
- \* F2 - records the currently displayed configuration into CMOS RAM and reboots the computer. Press F2 when you are finished updating the system configuration.
- \* CTRL+BRK - Restarts the computer without saving the currently displayed configuration.
- \* SPACE BAR - Displays the values that can be assigned to a Setup parameter. For hard drives, pressing the space bar displays a list of all predefined disk types. For the date and time, pressing the space bar clears the current entry. For all other fields, pressing the space bar changes the value displayed on the screen.
- \* DIRECTION KEYS - Enable you to move to the section of the screen you want to update, and to move among fields within a section.

Note: Keep a current list of your configuration.

#### RUNNING SETUP AFTER POWER-ON SELF-TESTS

When you turn on the computer, it automatically runs a series of diagnostic power-on self-tests. If these tests reveal any differences between the actual system configuration and the recorded configuration, you will hear a warning signal (beep) and see a message that asks you to run Setup. If you receive a configuration error:

1. Run Setup to correct the information recorded in CMOS RAM.
2. Make a note of the errors listed on the Setup Warning Information screen.
3. Update and save the system configuration. The system will reset and put the new settings into effect.

NOTE: If, after you reset the computer, it still sounds a warning signal and prompts you to run Setup:

- \* Make sure all system cords are plugged in solidly.
- \* Make sure the expansion adapters are seated properly.
- \* Make sure all jumpers and switches are set correctly.
- \* Check to see that the hardware information in Setup is correct.
- \* Make sure the CMOS RAM battery is properly connected.

#### RUNNING SETUP FROM THE UTILITIES MENU

To run Setup from the Utilities Menu:

1. Type 4 and press ENTER.
2. Make a note of any configuration errors listed.
3. Press any key to display the Setup configuration screen.
4. Update and save the configuration screen.

#### RUNNING SETUP FROM THE MS-DOS PROMPT

You can copy the Setup utility to your operating system diskette or your hard disk. This enables you to change hardware configuration information without first restarting the computer and inserting the Utilities Diskette.

Use the MS-DOS copy command to copy Setup from the Utilities Diskette to another diskette or to a hard disk. To run the Setup utility from the operating system diskette or hard disk, type the following command, at the operating system prompt (A> or C>): SETUPS20 and press ENTER.