Installing Schematic Design Tools 386+

These instructions tell how to install:

❖ OrCAD's installation program—INSTALL

❖ The ESP design environment

❖ **Schematic Design Tools 386+** v1.20 (SDT 386+)

Before you begin

Before beginning the installation, read this section carefully. The information presented here may affect your installation of INSTALL, the ESP design environment, or SDT 386+.

❖ Back up your system before installing OrCAD design tools.

❖ Run CHKDSK (or an equivalent program) to verify your available disk space, and verify that no problems exist on your hard disk. Correct any hard disk problems before starting the installation process. You need about 10 MB free for a complete installation.

❖ Verify the version numbers of any previous installation of OrCAD design tools. Although you can install these disks over previous versions, you might be able to save some time if you are already using the current version of INSTALL and the ESP design environment.

❖ If INSTALL detects a previous installation of the installation program, the ESP design environment, or SDT 386+, the installation may vary from the steps in this document.

Trouble-shooting

If INSTALL has problems while you are installing the software, try these possible solutions:

❖ If you are running INSTALL from within Windows, exit Windows and restart INSTALL. INSTALL may not always work while Windows is running.

❖ If you were not running Windows, SHARE may be running. Disable SHARE in your AUTOEXEC.BAT file and reboot your system.

❖ Look in your AUTOEXEC.BAT and CONFIG.SYS files and disable any terminate-and-stay-resident programs (TSRs) you may have running. Then reboot your system.

Using
INSTALL

If you have not installed OrCAD products before, please read this section. Otherwise, please skip to the section *Installing INSTALL*.

When you are presented with a list of options, several keystrokes are available:

Space	Toggles the item at the cursor's location, and then moves the highlighting down one line.
Enter←	Accepts the settings.
Y	Selects all items in a list.
N	Deselects all items in a list.
Page Up	Moves the highlighting up the list by one page.
Page Down	Moves the highlighting down the list by one page.
Home	Moves the highlighting to the beginning of the list.
End	Moves the highlighting to the end of the list.
↑	Moves the highlighting up one line.
↓	Moves the highlighting down one line.
Esc	Quits INSTALL at any time and returns you to DOS.

When a list contains items with "YES" or "NO" responses, you may respond "YES" to as many or as few as you wish. When a list does not contain "YES" or "NO" items, move the highlighting to the *one* item of your choice.

In some cases, INSTALL asks you to type in a parameter. Press Enter← when you have finished typing in your parameter.

When INSTALL asks you to press Esc to quit, or any other key to continue, the instructions in this document will ask you to press Enter←. You may, however, press any key other than Esc to continue.

Installation parameters

INSTALL uses several installation parameters. You can—if you wish—change these parameters. You may accept all of the defaults (OrCAD recommends that you do) to make installation simpler, faster, and easier. The default directory structure for the OrCAD design environment is shown in figure 1. OrCAD recommends that you use this directory structure. If you do, the installation is simple and fast.
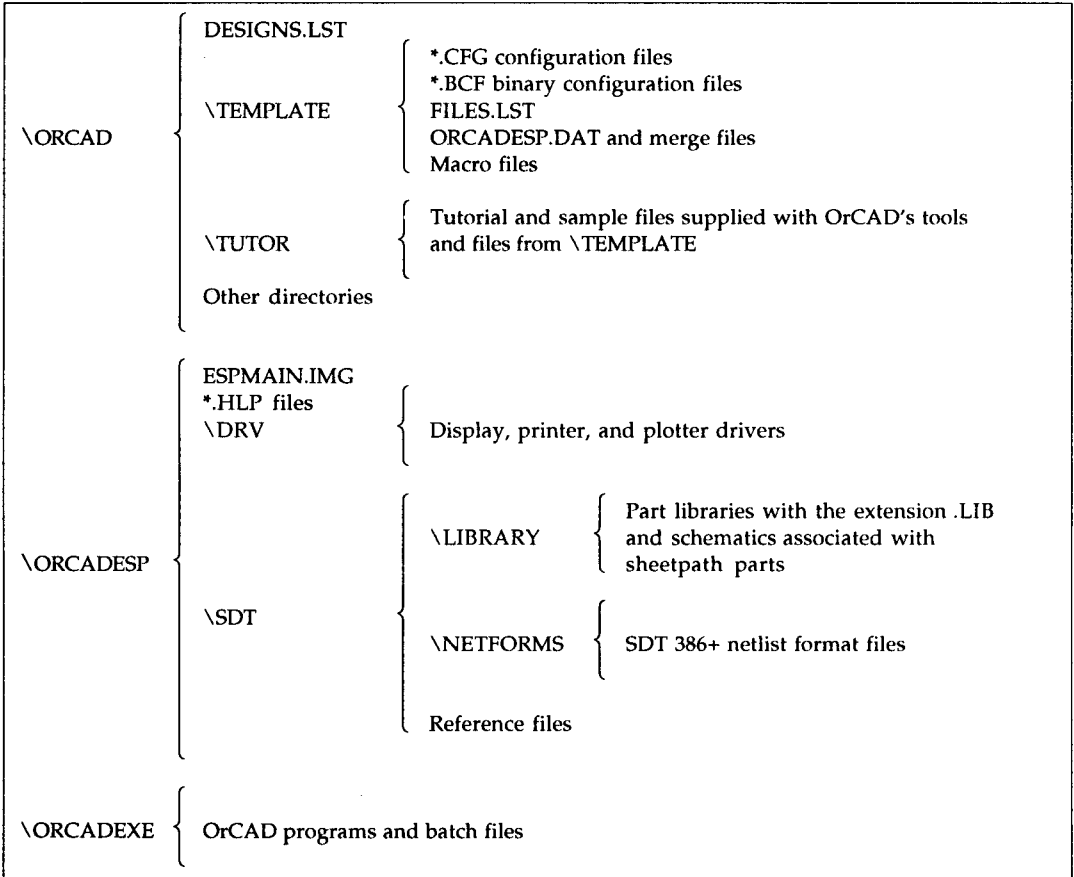
\ORCAD	DESIGNS.LST		
	\TEMPLATE	*.CFG configuration files *.BCF binary configuration files FILES.LST ORCADESP.DAT and merge files Macro files	
	\TUTOR	Tutorial and sample files supplied with OrCAD's tools and files from \TEMPLATE	
	Other directories		
\ORCADESP	ESPMAIN.IMG *.HLP files \DRV	Display, printer, and plotter drivers	
	\SDT	\LIBRARY	Part libraries with the extension .LIB and schematics associated with sheetpath parts
		\NETFORMS	SDT 386+ netlist format files
		Reference files	
\ORCADEXE	OrCAD programs and batch files		

Figure 1. OrCAD directory structure.

To change a parameter, select it and then provide the necessary information, as described below:

❖ The source disk drive.

If you select this item, INSTALL displays a list of available drives. Highlight the drive that contains the source disk, and press (Enter↵).

❖ The destination hard drive. The default is C:.

If you select this item, INSTALL displays a list of available drives. Highlight the desired target drive and press (Enter↵).

❖ The project directory. The default is \ORCAD.

If you select this item, INSTALL allows you to type in a new path. Press (Enter↵) when you finish.

❖ The global file directory. The default is \ORCADESP.

If you select this item, INSTALL allows you to type in a new path. Press (Enter↵) when you finish.

❖ The executable program directory. The default is \ORCADEXE.

If you select this item, INSTALL allows you to type in a new path. Press (Enter↵) when you finish.

❖ The AUTOEXEC.BAT file. You can choose to have INSTALL modify your AUTOEXEC.BAT file, or you can use a text editor to do it yourself. INSTALL provides information about the changes you need to make.

If you select this item, INSTALL displays a note about the AUTOEXEC.BAT file. Press (Enter↵) to continue. Later during the installation, INSTALL will ask you to confirm that you would like INSTALL to modify your AUTOEXEC.BAT file.

❖ Video driver.

If you select this item, INSTALL displays a list of available initial display drivers. Highlight your initial display driver, and press (Enter↵).

❖ Text editor.

If you select this item, INSTALL allows you to type in a new editor path. Press (Enter↵) when you finish.

INSTALL also asks you to enter the name of the new editor. Press (Enter↵) when you finish.

Installing INSTALL

You must install OrCAD's installation program if any of the following are true:

❖ INSTALL is not currently installed on your computer.

❖ The INSTALL disk version is newer than the one installed on your computer.

❖ You want to install your software in a custom directory structure.

❖ You want to change video, printer, or plotter drivers.

If none of the above are true, proceed to the next section, *Running INSTALL*.

If you need to install from the INSTALL disk, follow these steps:

1. Put the Install disk in your disk drive.

2. Change the current drive to the installation disk's drive. For example, if the installation disk is in drive B, enter **B:**.

3. Type **install**, and press ⌷Enter↵⌷.

4. INSTALL shows you the default installation settings, and asks if you want to customize them. For the simplest, and easiest installation, OrCAD recommends that you don't change the settings.

   Press ⌷N⌷ or ⌷Y⌷, and then press ⌷Enter↵⌷. If you press ⌷N⌷, skip to step 6. INSTALL will use the default directory structure shown in figure 1.

   If you press ⌷Y⌷, proceed to step 5.

5. INSTALL asks you if you wish to modify any of the current installation parameters. Select the appropriate items, and press ⌷Enter↵⌷.

   See *Installation parameters* to modify the current installation parameters, if necessary.

6. INSTALL displays an installation note. Read it, and press
   (Enter◄┘).

△   *NOTES: In steps 7, 8, and 9, select as many drivers as you need, or
    might want to use in the future. You can set multiple selections to
    "YES."*

    *In steps 7, 8, and 9, drivers that appear with an asterisk in front of
    them are drivers that may be downloaded from the OrCAD BBS at
    (503) 671–9401. You may call OrCAD technical support at
    (503) 671–9400 to request the necessary driver(s) if you do not have
    access to a modem.*

7. INSTALL asks you to select the type, manufacturer, or chip set
   for your video card. Select the type, manufacturer, or chip set,
   and press (Enter◄┘).

△   *NOTE: You must install at least one video driver, or you wont be
    able to run the ESP design environment.*

8. INSTALL asks you to select the plotter drivers you wish to
   install on your system. Select the plotter drivers, and press
   (Enter◄┘).

9. INSTALL asks you to select the printer drivers you wish to
   install on your system. Select the printer drivers, and press
   (Enter◄┘).

   INSTALL copies files onto your hard disk.

10. INSTALL asks if it may modify or create your
    AUTOEXEC.BAT file if needed. Press (Y) or (N).

    OrCAD recommends you press (Y).

If you press Ⓨ, INSTALL tells you how the AUTOEXEC.BAT file was changed. Otherwise, INSTALL tells you how you should modify your AUTOEXEC.BAT file.

Press (Enter↵) to continue. INSTALL is now ready to install OrCAD products.

Running INSTALL

To install the ESP design environment and the SDT 386+ tool set, follow these steps:

1. If you are not already in the INSTALL program, change to the directory defined by the ORCADEXE environment variable. Then type **install** and press (Enter↵).

2. INSTALL displays an introductry note. Read the note, and press (Enter↵) to continue.

3. INSTALL asks you to select the tool sets you wish to install on your system. Select "OrCAD ESP Design Environment" and "OrCAD Schematic Design Tools," and press (Enter↵).

4. INSTALL shows you the default installation settings, and asks if you want to customize them. OrCAD recommends that you don't change them.

    Press Ⓝ or Ⓨ, and then press (Enter↵). If you press Ⓝ, skip to step 6. INSTALL will use the default directory structure shown in figure 1.

    If you press Ⓨ, proceed to step 5.

5. INSTALL asks you if you wish to modify any of the current installation parameters. Select the appropriate items and press (Enter↵).

You need to set the current installation parameters the same way you did in step 5 of *Installing INSTALL*. The installation parameters are not retained after INSTALL is installed on your hard disk.

See *Installation parameters* to modify the current installation parameters, if necessary.

6. INSTALL displays the current installation parameters. Press (Enter↵) to continue.

7. INSTALL asks you to insert the ESP Disk (PC platform). Do this, and press (Enter↵).

Installing the ESP design environment

To install the ESP design environment, follow these instructions:

1. INSTALL asks if this is a new installation of the ESP design environment. Press (Y), and then press (Enter↵).

2. INSTALL asks you if you wish to modify any of the current installation parameters. Select the appropriate items, and press (Enter↵).

    See *Installation parameters* to modify the current installation parameters.

    INSTALL copies files onto your hard disk.

3. INSTALL informs you when the installation or the update is finished. Press (Enter↵) to continue.

4. When INSTALL displays a message telling you it is complete, press (Enter↵).

5. INSTALL asks you to insert SDT Disk 1. Do this, and press (Enter↵).

Installing the SDT 386+ tool set

To install SDT 386+, follow these steps:

1. Read the message INSTALL displays about a scan for the ESP design environment, and press (Enter↵) to continue.

2. INSTALL asks if you want to customize the installation. OrCAD recommends that you don't customize.

   Press (N) or (Y), and then press (Enter↵). If you press (N), skip to step 6. INSTALL will every file from the SDT disks.

   If you press (Y), proceed to step 3.

3. INSTALL asks for your initial display adapter type for SDT 386+. Highlight your display adapter, and press (Enter↵).

△ *NOTE: In steps 3 and 4, select as many libraries and netlist formats as you need, or might want to use in the future. You can set multiple selections to "YES."*

4. INSTALL asks you to select the libraries you wish to install on your system. Select the libraries, and press (Enter↵).

5. INSTALL asks you to select the netlist formats you wish to install on your system. Select the netlist formats, and press (Enter↵).

6. Insert each disk, as INSTALL requests, and press (Enter↵) to continue.

7. INSTALL displays a message about updating the ESP environment. Press (Enter↵) to continue.

8. When you return to the DOS prompt, INSTALL has finished.

Restarting **INSTALL**	If you need to reinstall a tool set, or add drivers or libraries, follow these instructions:

1. Change the current directory to the directory defined by the ORCADEXE environment variable.

2. Type **install**, and press (Enter↵).

3. If you are restarting INSTALL, turn to *Running INSTALL*. You need to retrace your steps to the point where you exited INSTALL.