

How to Use the Modem and Zip Drive in MS-DOS Mode with DOSSTART.BAT

Windows 95 uses the batch file DOSSTART.BAT to load MS-DOS real mode device drivers when it boots into MS-DOS mode. PCV130/150/200/220/240 models come with a DOSSTART.BAT file configured to load both a MS-DOS mouse driver and CD-ROM driver, as well the capability to load modem and Zip drive drivers.

If you start the computer in MS-DOS mode by pressing <F8> during boot and selecting "Command prompt only," you will not be able to immediately access the CD-ROM drive or use the mouse. In this case, typing in DOSSTART at the C:\ prompt and pressing <Enter> will run DOSSTART.BAT and enable these devices.

There are two other device drivers in DOSSTART.BAT that have been "Remmed out," that is, they have been deactivated, but can be made active by removing the "REM" comment at the beginning of their lines. These MS-DOS drivers, one for the modem and the other for the Iomega Zip drive, are shipped deactivated to save memory while in MS-DOS mode.

To activate the Zip drive in MS-DOS mode, do the following:

1. Open file C:\WINDOWS\DOSSTART.BAT in Notepad or other word processor.
2. Find the following line:
REM LH C:\Tools_95\GUEST
3. Delete the word "REM" from the front of the line. The line should now look like this:
LH C:\Tools_95\GUEST
4. Save and exit the file. The Zip drive will be enabled in MS-DOS the next time DOSSTART.BAT runs.

To activate the modem MS-DOS drivers, do the following:

1. Open file C:\WINDOWS\DOSSTART.BAT in Notepad or other word processor.
2. Find the following lines:
REM LH C:\REALMODE\Configp1 /I 3 /A 0x2f8 /D 10 /M 0x100
REM LH C:\REALMODE\LTTSR.EXE
3. Delete the words "REM" from the front of the lines. They should now look like this:
LH C:\REALMODE\Configp1 /I 3 /A 0x2f8 /D 10 /M 0x100
LH C:\REALMODE\LTTSR.EXE
4. Save and exit the file.
5. Open file C:\CONFIG.SYS in Notepad or other word processor.
6. Find the line:
Device=C:\windows\EMM386.exe noems
7. Change the last word from noems to ram. The line should now look like this:
Device=C:\windows\EMM386.exe ram
8. Save and exit the file. The modem driver will now be enabled in MS-DOS the next time DOSSTART.BAT runs.

NOTE: The change made to the CONFIG.SYS file is not the best setting for running Windows 95. If you intend to go back and forth between a MS-DOS communication program and Windows 95, a better

solution is to create a desktop shortcut to restart the computer in an optimum MS-DOS environment. To do this, do the following:

1. Do NOT edit DOSSTART.BAT as described above. Do not change DOSSTART.BAT.
2. In Window 95, right-click on the Desktop.
3. In the options menu, select New.
4. Select Shortcut.
5. In the Create Shortcut dialog box, enter COMMAND.COM in the command line. Click "Next."
6. Name the shortcut, if you wish, and click "Finish."
7. The new shortcut will appear on the Desktop. Right click on it and select Properties.
8. Select the Program tab.
9. Click on the Advanced button.
10. In the Advanced Program Settings dialog box, click on the "MS-DOS mode" option.
11. Click on "Specify a new MS-DOS configuration."
12. Edit the CONFIG.SYS text box to look like this:

```
DOS=High,UMB
Device=C:\Windows\Himem.sys
Device=C:\windows\EMM386.exe ram
Files=20
Buffers=40
Devicehigh=C:\Realmode\Atapi_CD.Sys /D:MSCD000 /I:0
```

13. Edit the AUTOEXEC.BAT text box to look like this:

```
LH C:\WINDOWS\COMMAND\MSCD.EXE /D:MSCD000 /M:12 /V /L:G
LH C:\WINDOWS\SYSTEM\SETUPSA.EXE /s
LH C:\REALMODE\MOUSE.EXE
LH C:\REALMODE\Configp1 /I 3 /A 0x2f8 /D 10 /M 0x100
LH C:\REALMODE\LTTSR.EXE
LH C:\Tools_95\GUEST
```

14. Click on the OK buttons to save changes and return to the Desktop.
15. To restart into MS-DOS with MS-DOS real mode drivers enabled, click on this new Desktop shortcut. When Windows 95 restarts into MS-DOS mode, it will add some additional lines to the AUTOEXEC.BAT file. Do not change them.

NOTE: This configuration may create a system conflict if you change to the Zip drive without a disk in that drive. Keeping a disk in the Zip drive will eliminate this issue.

Adding the line STACKS=0,0 to the CONFIG.SYS file will also resolve this conflict but may interfere with other applications.