



DOS ENVIRONMENT memory considerations when installing AOR PC control software

One copy protection "TOKEN" is automatically transferred from the master disk to the target directory (while running in WINDOWS by creating a DOS SHELL ENVIRONMENT... this will be unseen as it all happens in background).

If your machine has a very low level of available memory (due to poor setup or many SCSI drivers etc) the process may fail.

Before installation and before launching WINDOWS type:

MEM [enter] at the DOS prompt.

The report may look like (based upon a 486SX25 with 8MB RAM):

Memory Type	Total	=	Used	+	Free
Conventional	640K		38K		602K
Upper	155K		92K		63K
Reserved	128K		128K		0K
Extended (XMS)	7,269K		2,269K		5,000K
Total memory	8,192K		2,527K		5,665K
Total under 1 MB	795K		130K		665K

Largest executable program size **602K (616,016 bytes)**
Largest free upper memory block 63K (64,064 bytes)
MS-DOS is resident in the high memory area.

The LARGEST EXECUTABLE PROGRAM SIZE (third line from the bottom) should be greater than 540K.

If the reported memory is lower and you are running MS-DOS 6.xx type:

MEMMAKER [enter] at the DOS prompt.

This will cause DOS to automatically optimise your memory setup and should release sufficient memory to permit safe installation. If there still appears a very low memory report, check the CONFIG.SYS and AUTOEXEC.BAT files to see if there are a lot of drivers being loaded. If there are a lot of drivers, temporarily REM them out, reboot the computer and check "MEM" again.

As a SHELL is used, ensure that plenty of environment space allocated in the CONFIG.SYS file. Check that a DOS SHELL line exists:

```
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS
BUFFERS=30,0
FILES=50
DOS=UMB
LASTDRIVE=E
FCBS=4,0
DEVICEHIGH /L:1,12048 =C:\DOS\SETVER.EXE
DOS=HIGH COUNTRY=044, ,C:\DOS\COUNTRY.SYS
DEVICEHIGH /L:1,15792 =C:\DOS\DISPLAY.SYS CON=(EGA, ,1)
DEVICEHIGH /L:1,9072 =C:\DOS\ANSI.SYS
SHELL=C:\DOS\COMMAND.COM C:\DOS\ /p /e:1024
```

The switch /e:1024 should be added if not already there to ensure that there is plenty of environment space present.

Check that the number of FILES available are also set to at least 50 in CONFIG.SYS

The master disk contains TWO TOKENS so if you have encountered problem when installing first time, remove any directory which has been created (and program group in WINDOWS). You can then try to install a second time bearing the above memory points in mind.

Please note: Two disks are now provided with some packages, one set for Windows95 and another for Windows98... they are marked **W95 / W98**. Each version provides different copy protection drivers more suited to the specified operating system, but of course you may experiment and use either with earlier version of Windows 3.1x, however use them only in pairs!