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Consumer Products Division

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# **Virtual CD System (Release 3) Limitations**

Doc. # ST-182-081294

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Your Name \_\_\_\_\_ Phone \_\_\_\_\_

Document number ST-182-081294 Date \_\_\_\_\_

Document name Virtual CD System (Release 3) Limitations

### Corrections:

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### Where to send your corrections:

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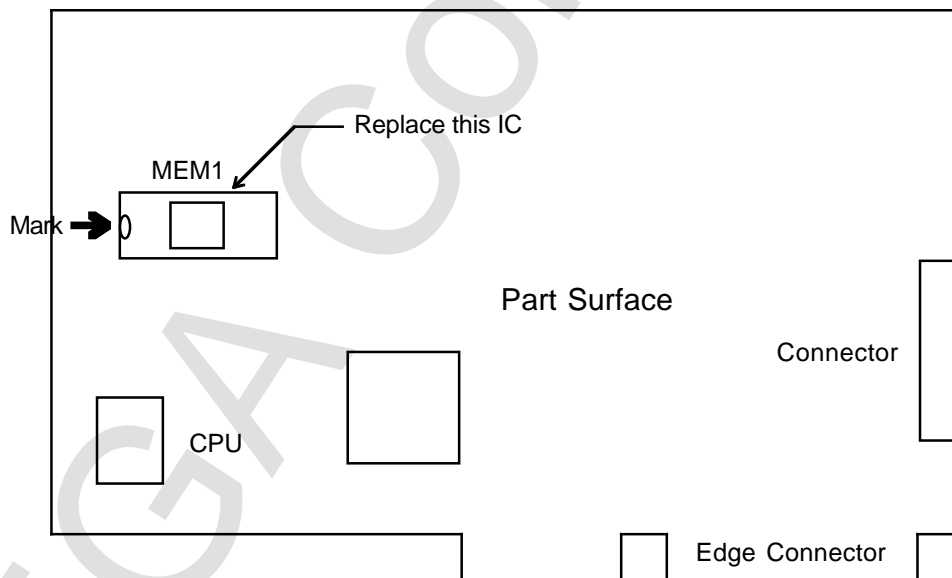
## Introduction

To accompany the upgrade of the main software of the virtual CD system currently being used, the firmware on the virtual CD interface board needs to be replaced to enable the use of the new main software. To this end, SEGA has included new firmware (Ver 3.1) contained in EPROM with this notice. Please follow the instructions below to replace the ROM on the CD interface board.

When using the new main software, make sure that the new firmware (ver 3.1) has been installed. If the new software is used with old firmware, the system will not operate correctly, or may not operate at all. Also, please make sure to return the old ROM as quickly as possible.

## ROM Replacement Procedure

1. If the board is installed in the computer, first shut off the computer power.
2. Remove the 50P interface cable from the virtual CD interface board.
3. Remove the cover of the computer, then loosen and remove the screws that fix the virtual CD interface board in place.
4. Carefully remove the board from the expansion slot and place the board on a desk or table covered with an anti-static sheet. Locate the ROM labeled MEM1 as shown on the diagram below and use a screwdriver or similar tool to pry up and remove the EPROM from the IC socket. Be careful not to bend the legs.



5. Install the new Ver.3.1 EP-ROM, sent with this notice, into the same location by pressing it into the IC socket; make sure the direction of the new IC is correct and confirm that it has been correctly installed.
6. Reverse the above procedures to reinstall the board back into the computer.
7. Install the main software and verify the operation of the new software by following the procedures in the operation manuals.

August 8, 1994  
SEGA of America  
Technical Support  
FAX: 415-802-3963

### Virtual CD System (Release 3)

The virtual CD software has been upgraded. We are sending the upgrade along with sample CD programs. This upgrade requires the replacement of the virtual CD board ROM for the new software to function. Refer to the procedure for replacing the ROM as shown on the previous page.

### Items Supplied

- Virtual CD System and Sample Program
  - Vol 1/3 . . . 1
  - 2/3 . . . 1
  - 3/3 . . . 1
- Virtual CD System and Sample Program Installation method
- Virtual CD System (Release 3) Restrictions

End



## **Virtual CD System (Release 3) Limitations**

### **VCDEMU**

1. The file interleave function in direct DOS file access is not supported.
2. The channel interleave function in direct DOS file access is not supported. (Is scheduled to be in the final specification.)
3. Scan FWD/REV is not supported.
4. Multi-index is not supported.

### **VCDPRE, VCDBUILD**

1. The following keywords are removed from the limitations list: Pause, PreGap, PostGap. Refer to Virtual CD Software release 2 documentation for other limitations. (In the CD tool and software library supporting documentation.)
2. Always use the File command and the EndFile command in the CDDA track. Currently CDDA must be defined as a ISO9660 file.

### **Other**

1. Some script lines are scheduled to be changed for the next release.
2. VCDUTL is not included.

## Virtual CD System (Release 3) Installation

### 1. Install the executable programs

Install the following files into the development machine.

```
[Disk#1] ¥saturdaysegabin¥vcd¥jvc.abs
        ¥saturdaysegabin¥vcd¥jvc.ini
        ¥saturdaysegabin¥vcd¥sddrv.tsk
        ¥saturdaysegabin¥vcd¥sysdbl.tsk
        ¥saturdaysegabin¥vcd¥newmap.bin
```

### 2. Install the Virtual CD Software

Install the following files into the virtual CD development machine.

```
[Disk#1] ¥saturdaysegabin¥vcd¥vcdbuild.exe
        ¥saturdaysegabin¥vcd¥vcdemu.exe
        ¥saturdaysegabin¥vcd¥vcdmktoc.exe
        ¥saturdaysegabin¥vcd¥vcdpredpre.exe
```

### 3. Install the Source Data for CD Image Creation

Install the following files into the virtual CD development machine.

```
[Disk#1] ¥saturdaysegabin¥vcd¥jvc.scr
        ¥saturdaysegabin¥vcd¥jvc.rti
        ¥saturdaysegabin¥vcd¥jvc.pvd
        ¥saturdaysegabin¥vcd¥jvc.prm
        ¥saturdaysegabin¥vcd¥pat_1.dat
        ¥saturdaysegabin¥vcd¥pat_10.dat
```

```
[Disk#2] snd8_1.dat
```

```
[Disk#3] snd8_3.dat
```

### 4. Create the CD Disk Image

Create the CD disk image in the CD development machine.

- Create a working file of the preprocessing program, then create the following files.

```
C:¥>type jvc.pre(RET) Create a file with these contents.
```

```
scr jvc.scr
```

```
rti jvc.rti
```

- Startup the preprocessing program

```
C:¥>vcdpred jvc.pre(RET)
```

- Create the CD Disk Image File

```
C:¥>vcdbuild jvc.pre(RET)
```

A file called jvc.dsk is created.

### 5. Start the Virtual CD Emulator

Start the virtual CD emulator in the CD development machine.

```
C:¥>chev us /f(RET)
```

```
C:¥>vcdemu jvc(RET)
```

The virtual CD emulator will start.



6. Reading the Program

Start the program development machine and Model M and execute the following:

```
: [BOOT ROM Initialization]
: <jvc.ini(RET)
: g 6002000(RET)
```

For more information on virtual CD, refer to the Virtual CD System User's Manual.

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