

It seems there is a problem between the SX2 and Carnivore2 firmware/boot menu version 2.50. You won't be able to hear any SCC or FM sounds with Carnivore 2.50 firmware/boot menu. We hope the problem will be solved with future updates from RBSC but the only workaround at the moment is to downgrade **Carnivore2** to 2.40 version.

**You are welcome to send your Carnivore2 back to us for reprogramming. The service is free of charge for our customers. Contact us.**

The firmware programming procedure is detailed in the official Carnivore2 documentation (under "How to upload the firmware"):

[https://sysadminmosaic.ru/en/msx/carnivore2/carnivore2?redirect=1#how to upload the firmware](https://sysadminmosaic.ru/en/msx/carnivore2/carnivore2?redirect=1#how_to_upload_the_firmware)

Bare in mind you will need a PC with Windows, Altera Quartus II Software and a USB-Blaster compatible programmer.

It is easier to downgrade the **boot menu**. This is done directly from MSXDOS using the C2MAN utility. Execute the utility from DOS command line. You will be presented with the following menu:

```
Main Menu
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1 - Write ROM image into FlashROM
2 - Create new configuration entry
3 - Browse/edit cartridge's directory
4 - Restart the computer
9 - Open cartridge's Service Menu
0 - Exit to MSX-DOS [ESC]
```

-Choose **option 9** from the Main menu (Open cartridge's Service Menu).

```
Service Menu
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1 - Show FlashROM's block usage
2 - Optimize directory entries
3 - Init/Erase all directory entries
4 - Write Boot Menu (BOOTCMFC.BIN)
5 - Write IDE ROM BIOS (BIDECMFC.BIN)
6 - Write FMPAC ROM BIOS (fmpcmfc.bin)
7 - Fully erase FlashROM chip
0 - Return to main menu [ESC]
```

-Choose 4 from the service menu (Write Boot Menu (BOOTCMFC.BIN)). You will need to confirm the action with "y" (yes). The procedure takes only a few seconds.

-Once it is done exit the utility and reset the computer

**Make sure you have the BOOTCMFC.BIN v.2.40 file in the same directory as the C2MAN utility.**