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The programming guide contains the information and instructions necessary to properly replace the internal software of the SOROKA digital voice recorder.

## 1. Overview of internal software.

1.1 The main node of the recorder is a microprocessor that provides most of the operations performed in the recorder, such as mathematical processing of data from the microphone, storage of the file system for the memory card, control of the dictaphone operation modes, display control and monitoring of the power supply voltage. The manufacturer does not exclude the possibility that after the introduction of the recorder into operation there will be new versions of the software for the microprocessor, which will improve some of the technical characteristics or eliminate the shortcomings identified in the operation of the recorder. In this regard, it was decided to provide users with the possibility of replacing the microprocessor software, which in some cases will avoid significant financial and time costs for both the user and the manufacturer. Therefore, the purpose of this manual is to provide the user with the complete information necessary to replace the recorder software.

## 2. Precautionary measures.

2.1 When the internal software is replaced, the recorder switches to the maximum current consumption mode for some time (from 30 seconds to several minutes depending on the memory capacity of the microSD card). Therefore, the user must charge the recorder's battery immediately before replacing the software.

2.2 it is not recommended to use a microSD card larger than 16 Gb to reprogram the recorder., since it will greatly increase the time to overwrite the recorder software.

2.3 to reprogram the recorder, always use a microSD card formatted only as described in step 3.2. this document.

**Attention!!! All requirements of this manual must be followed when replacing the internal software. Failure to comply with the requirements or the order of their implementation can lead to irretrievable loss of performance recorder.**

### 3. Action sequence.

3.1 Charge the battery of the recorder.

3.2 Format the memory card in the manner shown in figure 1.

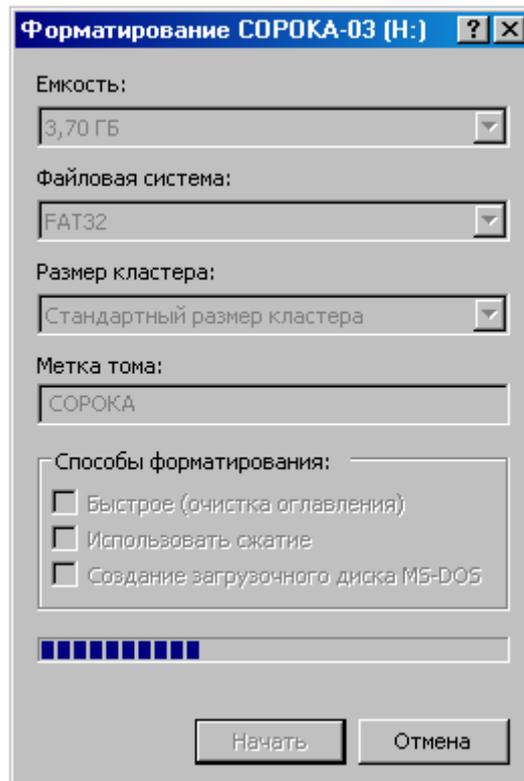


Figure 1. Set the way the microSD card is formatted before writing the boot file to it.

3.3 Copy the boot file (loader.2lb) to a formatted memory card.

3.4 Insert the memory card with the boot file into the recorder and turn it on.

3.5 After turning on the recorder, the led should blink orange continuously.

3.6 Wait until the indicator blinks orange and blinks green several times, which means that the recorder software overwrites successfully.

3.7 After reprogramming the recorder, remove the memory card and the boot file.

3.8 The Recorder is ready for operation.