



Rev 1.2

Homepin Blues Brothers Pinball

Open Source software and audio formatting guide

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Welcome to Blues Brothers pinball. An open source pinball machine where you can change songs, sounds and game rules. This document is a work in progress and will be updated regularly.

AUDIO (sounds & music):

The first thing to know is exactly how and in what format the sounds and music must be loaded to the machine. All sounds and music are on a micro SD card on the sound board. They *MUST* be loaded to the card using the following specifications or they will be ignored by the system:

Uncompressed WAV files on a FAT16 or FAT32 formatted microSD card of any size up to 32GB. 16-bit, 44.1kHz, stereo.

Note 1: This is the same bit depth and sample rate as audio CDs.

Note 2: Cards larger than 32GB can be used by formatting as FAT32, but this will limit the usable size to 32GB (which is far larger than will ever be needed in this application).

This is a lot easier to do than some initially think using an excellent (and FREE) program called "Audacity". I suggest you download this program and make yourself familiar with it.

<https://www.audacityteam.org/>

Dick (the original programmer and designer of this software) posts program updates and also a lot of other information on Github. The link to his Github posts is here:

<https://github.com/RetroPinUpgrade/BluesBrothers/blob/main/BluesBrothers.ino>

An understanding of Arduino programming is very helpful when looking at the code and contemplating changes.

The full service manual and other things including the adjustments flowchart is available at the Homepin website. You can get the flowchart (which is NOT in the printed manual because it changes regularly) here:

<https://www.homepin.com/bbservice.html>

It's currently 12 pages long and I advise you read it through and familiarise yourself with the available adjustments and settings as some of these are quite complex. Some adjustments, if changed, alter the operation of the machine to such an extent that some might think they have a fault or problem with their machine when it is merely menu adjustments.

More information will be compiled and posted as soon as possible.

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