

# Rottendog MPU9211 William's System 9-11 Installation Instructions

The Rottendog MPU9211 board is for all Williams System 9 and 11 games, and is an improved board over the previous MPU011A, now working on all System 9 and early System 11 games as well as the rest of the System 11 games. It comes with trimmer pots (blue) that allows you to balance the volume output between the sound and speech. This is a multi turn pot that can take quite a number of turns to "get it right".

The Rottendog MPU9211 board comes "almost" plug-and-play, however, there are a few things that must be done and should be checked prior to installation. These things are:

**For all games:** We suggest that you check the power supply for proper voltage output, and all coils be actuated manually to insure none are damaged. A locked on burned coil should be clipped and replaced.

**For System 11 Games:** Your original MPU board will have anywhere from 2 to 4 ROMs specific to your game. There will always be U26 and U27, and for most games U21 and U22. Move these ROMs from your original MPU board to the new Rottendog MPU9211, making sure the ROMs are not installed backwards. Installing them backwards will damage them, pay attention to the notch, not any wording on a label.

Your original MPU board will also have either 1 or 2 Microprocessors. These will be labeled 6802 or 6808 on the chips themselves. Move these processor chips from your original MPU board to the new Rottendog MPU9211, again making sure they are not installed backwards. These go in to locations U15 and U24. (If only one, put into U15)

**For System 9 Games:** The original Game ROMs **WILL NOT** work in the MPU9211 board. Modified ROMs may be purchased or burned to eproms and are available to download. As like the System 11 instructions, game ROMs and processor chips need to be moved over in the same way. On a System 9 game, the sound board is not needed and can be disconnected and removed. Also note that since the System 9 is installed "upside down" compared to an 11, the mounting holes will be offset in the wrong direction and will need to be held up when secured; we suggest you secure at all points.

Please note early versions had a jumper that would be moved to change from System 9 to 11, this jumper is no longer needed and will be removed on future versions.