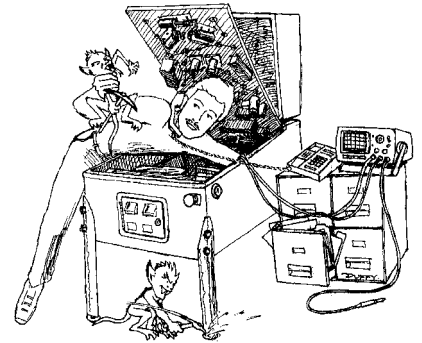


Service Bulletin N° 111



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TO: Parts & Service Managers

DATE: February 18, 1999

SUBJ: NEW!! EXTRA! EXTRA!
South Park Pinball uses 8MB EPROM's
for Expanded Speech & Sound Capabilities



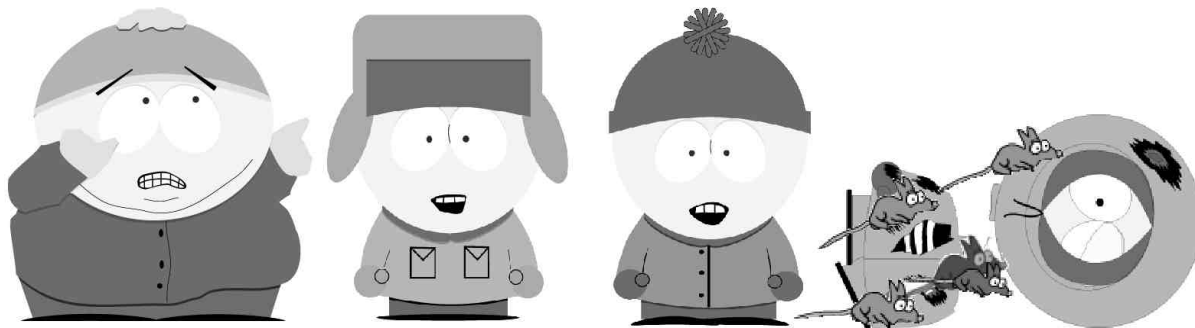
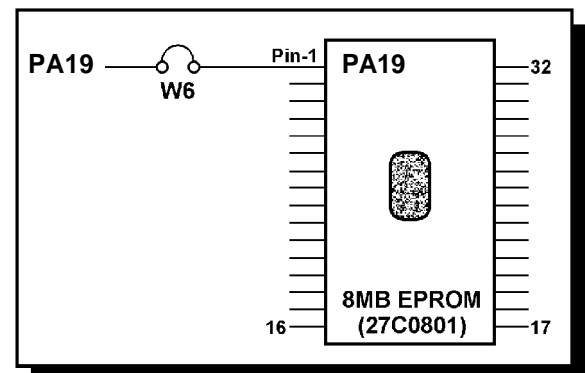
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Explanation:

Located on the **CPU/Sound Board** at **Voice Rom Locations U17, U21, U36, U37** you will find **8-MEGABYTE EPROMs** (M27C801-100FI / SPI Part N° 960-5016-00, blank EPROM). Boards that use the **8MB EPROMs** have Jumper "**W6**" installed (located to the right of "**U6**" 68B09E Microprocessor, see the *Component Layout* on the next page) these are **BACKWARD COMPATIBLE** with all 4MB applications. Games that use the **4MB Voice ROMs** *do not have* "**W6**" installed and **WILL NOT WORK CORRECTLY** with **8MB EPROMs** ("**W6**" *must be installed*). **All future games** will have CPU/Sound Board's with the jumper installed regardless of the type of voice ROMs being used to ensure compatibility.

What does the "**W6**" Jumper do? Pin-1 of the original **4MB EPROM** is "**Vpp**" which is used for programming when 12.5v DC is applied or used as an **Address Line** when in the 0v DC - 5v DC range. On our CPU/Sound Board, when "**W6**" is installed, this Pin is tied to **PA19** when removed Pin-1 is not used. If **8MB EPROMs** are used *without* "**W6**" installed, the symptoms will be garbled sound similar to a bird chirping or an *old 33-1/3 LP* being played at *78 RPM* (you older techs might remember what that sounded like).

The next page shows the *Component Layout* of the **CPU/Sound Board** describing the location of "**W6**" and **ROM locations, etc.**



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Any questions or comments, please contact Technical Support at the below numbers.

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