Service Bulletin Nº 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
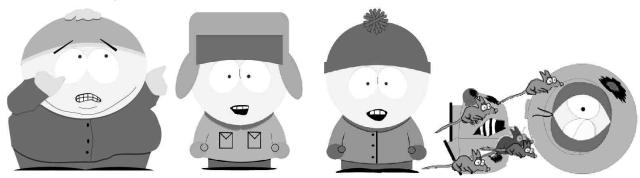
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Explanation:

Located on the **CPU/Sound Board** at **Voice Rom Locations U17, U21, U36, U37** you will find **8-MEGABYTE EPROMs** (M27C801-100FI / SPI Part Nº 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 symtoms will be garbled sound similiar 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).*
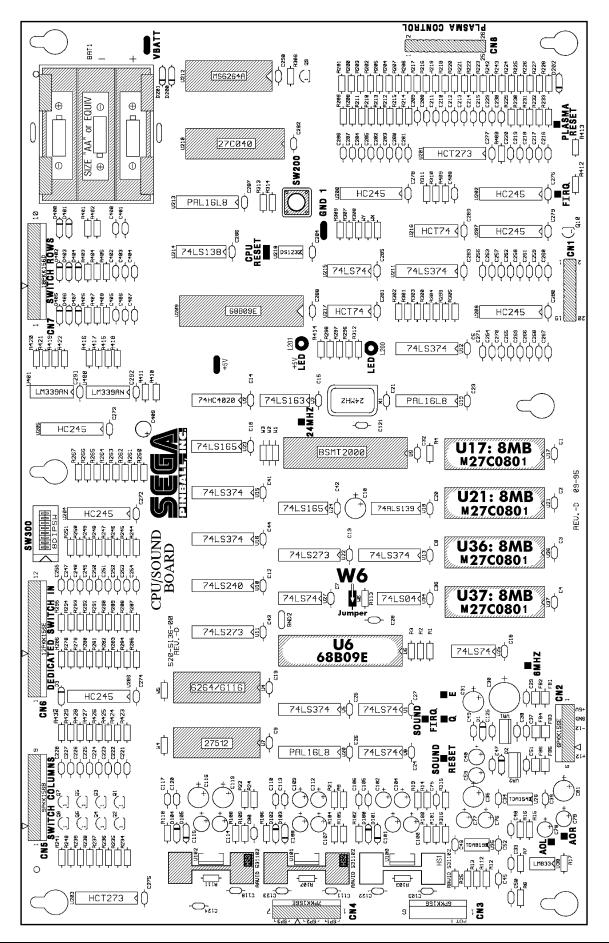
The next page shows the *Component Layout* of the **CPU/Sound Board** describing the location of "**W6**" and **ROM** *locations, etc.*

PA19 —o o— W6   Pin-1   PA19 — 32
8MB EPROM (27C0801)   16 — 17

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

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CPU/SOUND BOARD

PLASMA CONTROL

U17: 8MB M27C0801
U21: 8MB M27C0801
U36: 8MB M27C0801
U37: 8MB M27C0801

U6 68B09E

BSMT2000

W6 Jumper

SEGA PINBALL INC.

520-5136-00 REV.-D

REV.-D 09-95

SWITCH ROWS
SWITCH COLUMNS
DEDICATED SWITCH IN
SWITCH IN