myPinballs Squawk & Talk Sound Board Information & Setup

Thanks for buying one of our computer sound boards. We hope you enjoy using our product. Before you plug in your new Squawk & Talk sound board please make sure the following in game checks are made. Plugging a new sound board into a game of unknown condition may damage your new board and void any warranty

For Pinball Use Only

1) +12vDC Unregulated Supply correct and stable from main power transformer assembly
2) +6.3vAC General Illumination Supply correct and stable from main power transformer assembly
3) Replace in door volume 100 Ohm pot with quality part

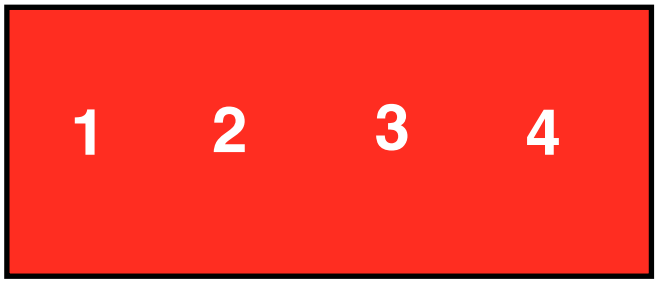
For Arcade Use Only

1) +5v DC Regulated Supply correct and stable from main power transformer assembly
2) -5v DC Regulated Supply correct and stable from main power transformer assembly

ROM DIP Switches - SW1 - SW2

The dip switch settings on this board have been optimised for best use and simplification. There are 16 switches in 4 banks of 4 which represent the 4 rom sockets. Once you have installed your game rom set, following the below instructions to set the board for the correct configuration.

SW1 1-4 configures ROM Socket IC2
SW1 5-8 configures ROM Socket IC3
SW2 1-4 configures ROM Socket IC4
SW2 5-8 configures ROM Socket IC5



Rom Size 2716 (CE - GND, A11- +5v)
1 - on
2 - off
3 - off
4 - on

Rom Size 2732 (CE - GND, A11 - A11)
1 - on
2 - off
3 - on
4 - off

Rom Size 2532 (CE -A11, A11 - +5V)
1 - off
2 - on
3 - off
4 - on

Sound Generator Use - Dip Switch SW3 - Pinball Spec Boards Only

If your board has roms pre-installed and does not use the AY-3-8912 sound generator located at IC8 then it will not be installed and the switches in SW3 set to on. If you want to use your board in another game later that uses the extra sound generator, a chip can be purchased from us as part of the new games sound rom set. When used SW3 should be set to off. Contact us if you want additional rom sets.

Adjusting the volume

2 volume adjustments are included on the board and are labelled accordingly. They adjust the balance between the sound effects and speech calls. To increase the volume for the specified section turn the pot clockwise. To decrease the volume for the specified section turn the pot anti-clockwise.

The overall volume can be controller via the in door or cabinet volume pot.

Effects / Reverb Settings

SW4 Jumper is installed as default, but can be removed if you are using a 3rd party reverb/echo system, or one of our daughter card effects systems.

Test Pads & System Diagnosis
Should you need to test the board in the future the following test points are included:

TP1 : +5V - Red LED
TP2 : +12v Unregulated (+5v regulator feed) - Red LED
TP3 : VMA
TP4 : IRQ
TP5 : Reset
TP6 : R/W
TP7 : E
TP8: GND
TP9: Reset 2 (Not currently used)
TP10: Sound Generator Output
TP11: -5V
TP12: -12.6V (-5v regulator feed)

A green system LED is also included which flashes during boot up to signify the successful test of each board area. The flashes signify:

1st Flash - Main Processor (CPU) chip IC1 is working
2nd Flash - 1st I/O companion chip IC7 is working
3rd Flash - 2nd I/O companion chip IC6 is working
4th Flash - Sound Generator chip IC8 is working (if installed)
5th Flash - Speech Generator chip IC10 is working