

# The Singer

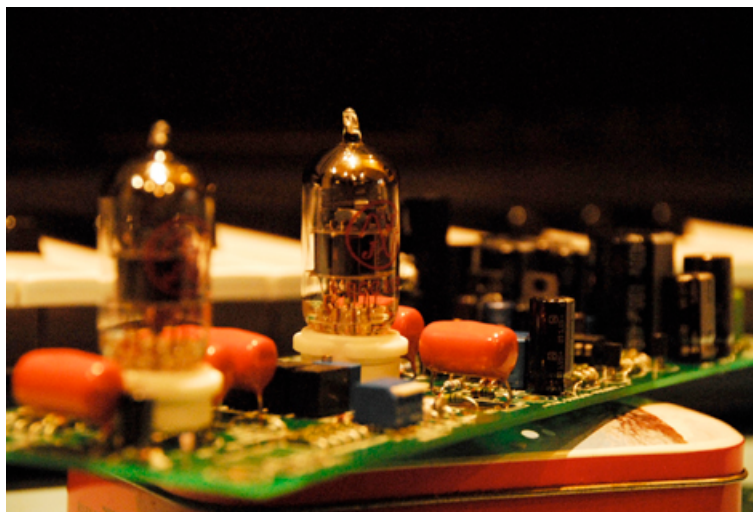
Electric Piano Tube Preamp

# Manual

Brought to you by Ernst Guitar Amps and Electric Piano Service.  
From the Lowlands of Holland.

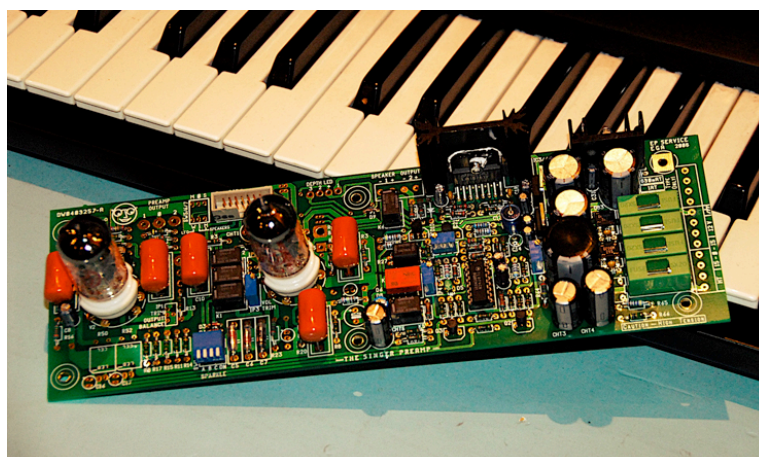
# The Singer

Replacement tube amp with stereo tremolo for Wurlitzer electric piano's.



## Features:

- Low noise
- Tube preamp
- Switchable 'Sparkle' (7 presets)
- Sparkle trim on pcb(fine tune to your taste)
- Stereo tremolo
- Tremolo switchable: Original Wurlitzer speed (pré trim on pcb).  
Manual speed control.  
Mono/Stereo for internal speakers.
- Solid state power amp for internal speakers
- Speakers switchable: Off/Stereo/Mono
- Tremolo speed visible thru front lamp (internal preset for intensity)
- Replaces original pcb and potentiometers
- Easy do it yourself installation
- 2mm thick pcb with 70u copperlayer
- 5 year limited warranty



## The manual.

### Knobs and switches on the outside.

#### Front controls:

- Volume volume control for speaker (if activated) and line output.
- Vibrato depth control for stereo vibrato

#### Line out panel:

- Jacks left and right output jacks. Use one for mono.
- Switch 3 way switch for internal power amp.  
Off – On Stereo – On Mono

#### Optional control panel:

- Speed manual speed control for the vibrato unit
- Sparkle switches between off or 7 sparkle presets
- Switch 3 way switch for the vibrato  
Off – Manual speed control – Wurlitzer preset speed.

- Power switch switches your beloved Wurlitzer on or off.

## WARNING:

**ALWAYS pull the power plug before playing with the switches and controls on the main pcb.**

### Switches and controls on the inside.

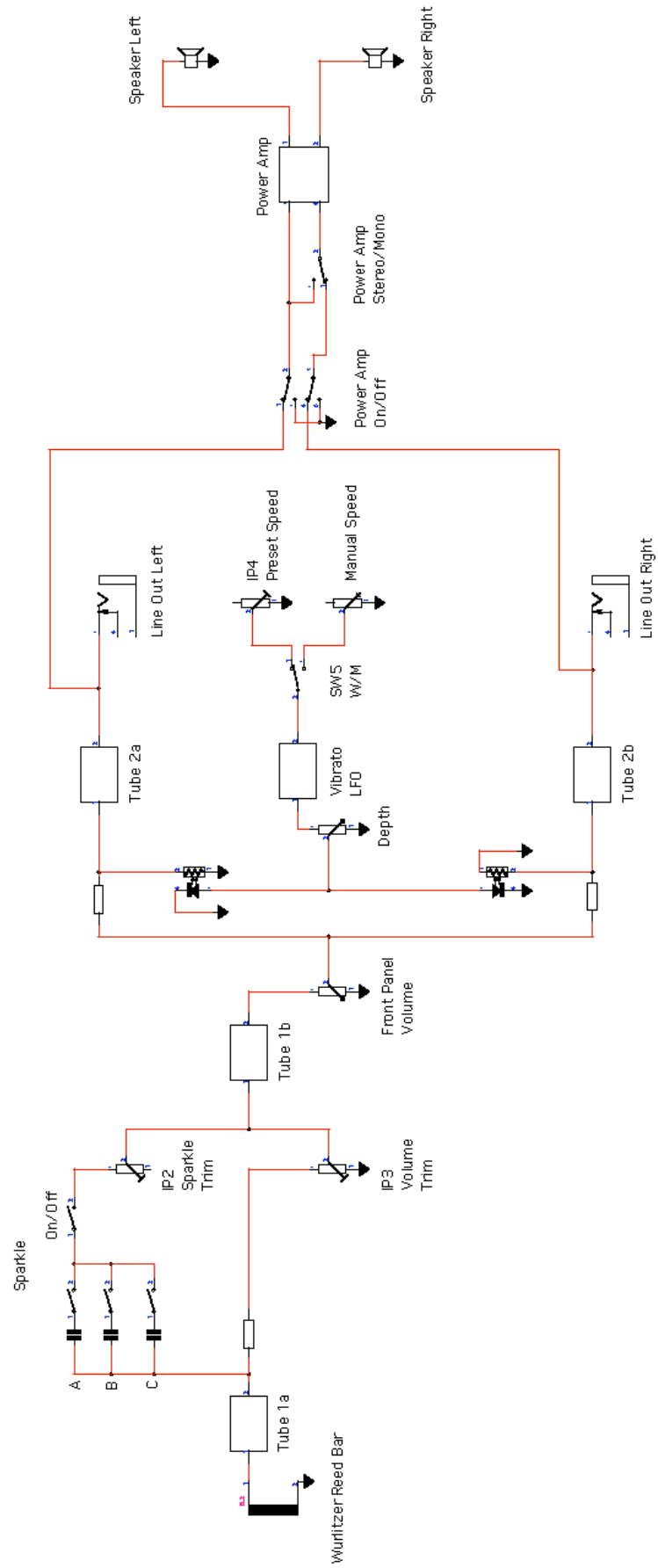
See board layout for switch and trimmer placement.

#### Factory preset controls:

- IP1 Trim Output Balance: factory trimmed output level.
- IP4 SPD: factory trimmed for original Wurlitzer vibrato speed
- IP6 Bias: factory trimmed optocoupler response.

#### User controls:

- IP2 Sparkle Trim: trim for desired amount of sparkle.
- IP3 Vol Trim: trim for preset volume. If set high you are able to control tube distortion with the main volume control.
- IP5 Trim for intensity of tremolo speed on power LED.
- SW1/2/3/4 Sparkle: if you do not use the remote rotary switch, preset to desired amount of Sparkle. The switch is marked A, B, C and On. Choose A, B or C or any combination of the three. The switch marked On engages Sparkle.
- SW5/6 If you do not have the optional control panel installed, switch SW5 to the 'W', Wurlitzer preset, position. SW6 is also controlled with the switch on the line out panel. It switches the internal power amp to stereo or mono mode.



The Singer block diagram.

