## Roland AG-5 Funny Cat





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## Silly Feline PCB layout and wiring



Full size toner transfer pattern



The full sized PCB layout is shown at bottom left, and the parts stuffing diagram and wiring diagram is at left. Pots are show viewed from the back.

Note that the original Funny Cat was not a true bypass box. The input impedance of this effect will be in the 50K region, enough to have treble loss when the SDS/Normal switch is in the "Normal" position. A true bypass around the whole thing might be a good addition.

In making the PCB, all holes except off-board wiring pads and the switch pads are drilled out to 0.028" to 0.032". The off-board wiring pads need to be about 0.040", and the switch pad holes need to be 0.060" to 0.062" to accommodate the pins of the specified switch.

Notice the square pads. Those are polarity designators. The square pads in the IC layout patterns signify pin 1. In the electrolytic caps, the square pad is the (+) pin. Only Q2A or Q2B are used, not both. Q2A is the original type number with pinout ECB for the Japanese "2SC" types, and Q2B is pinned out EBC for "2N" types. Use whichever type you can get, but put it in the correct footprint.

On the board layout, C6 and R9 are reversed in order from the schematic. This has no effect on the unit's operation.