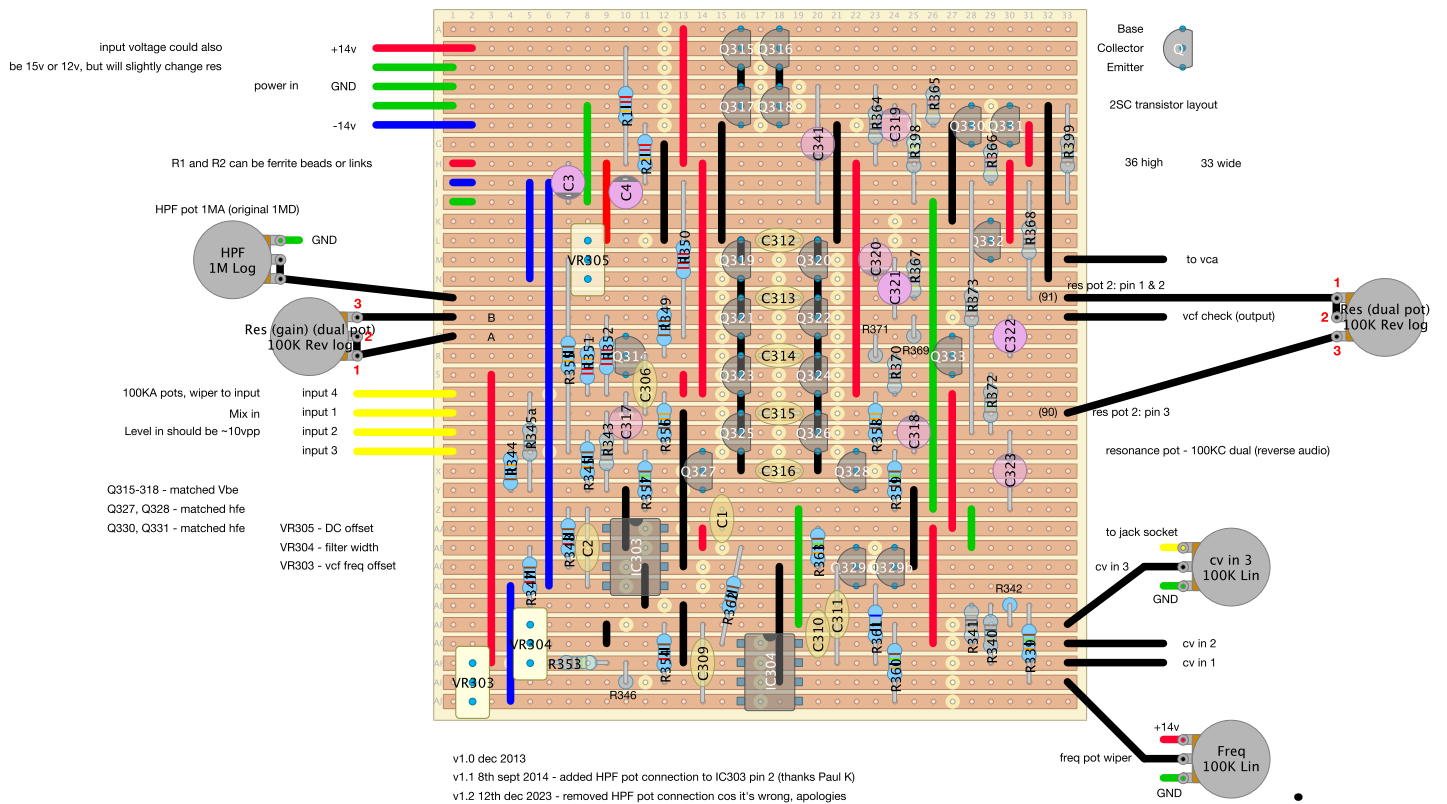


# Roland System 100 Model 101 VCF



- |  |              |
|--|--------------|
| Vero Board   | qty 1        |
| C1, C2, C309, C310   | 100nF        |
| C3, C4   | 100uF 35V    |
| C306   | 0.01uF       |
| C311   | 250pF        |
| C312, C313, C314, C315   | 0.068uF      |
| C316   | 0.015uF      |
| C317, C321, C322, C341   | 10uF 16V     |
| C318   | 47uF 16V     |
| C319, C320   | 1uF 35V      |
| C323   | 100uF 16V    |
| cv in 3, Freq  | 100K Lin     |
| HPF  | 1M Log       |
| IC303  | LM741        |
| IC304  | CA1458       |
| Q  | qty 1        |
| Q314   | 2SK30A-Y     |
| Q315, Q316, Q317, Q318, Q319, Q320, Q321, Q322, Q323, Q324, Q325, Q326, Q329a, Q329b, Q333 | 2SC945       |
| Q327, Q328, Q330, Q331, Q332   | 2SC1000GR    |
| R1, R2   | 22Ω          |
| R339, R360, R363   | 150K         |
| R340, R341, R342, R343, R344, R345, R345a, R346, R355, R369                                | 100K         |
| R347, R348, R354, R368, R370   | 10K          |
| R349   | 1.8K         |
| R350, R352   | 22K          |
| R351   | 220K         |
| R353, R357, R359   | 1.5K         |
| R356, R358   | 3.3K         |
| R361   | 680Ω         |
| R362, R364   | 1K           |
| R365   | 33K          |
| R366   | 47K          |
| R367   | 4.7K         |
| R371   | 10M          |
| R372   | 150Ω         |
| R373   | 100Ω         |
| R398, R399   | 1M           |
| Res (dual pot), Res (gain) (dual pot)  | 100K Rev log |
| VR303, VR305   | 100K Lin     |
| VR304  | 1K Lin       |

## Notes

C321 and C322 are bipolar electrolytics

C319 and C320 are tantalum capacitors. Make sure you get them in the right way.

The 741 could be replaced by a TL071

The CA1458 could probably be replaced by an LM358

2SC1000GR is basically unobtainable. 2SC2240GR works, and BC547 probably will (with a different pinout)

2SC945Q transistors were used in the original, I used a mixture of 945P and 945GR.

Res and Res (gain) is a dual pot, reverse audio. Available through eBay (search for C100k dual)

The service notes contain details on calibration.