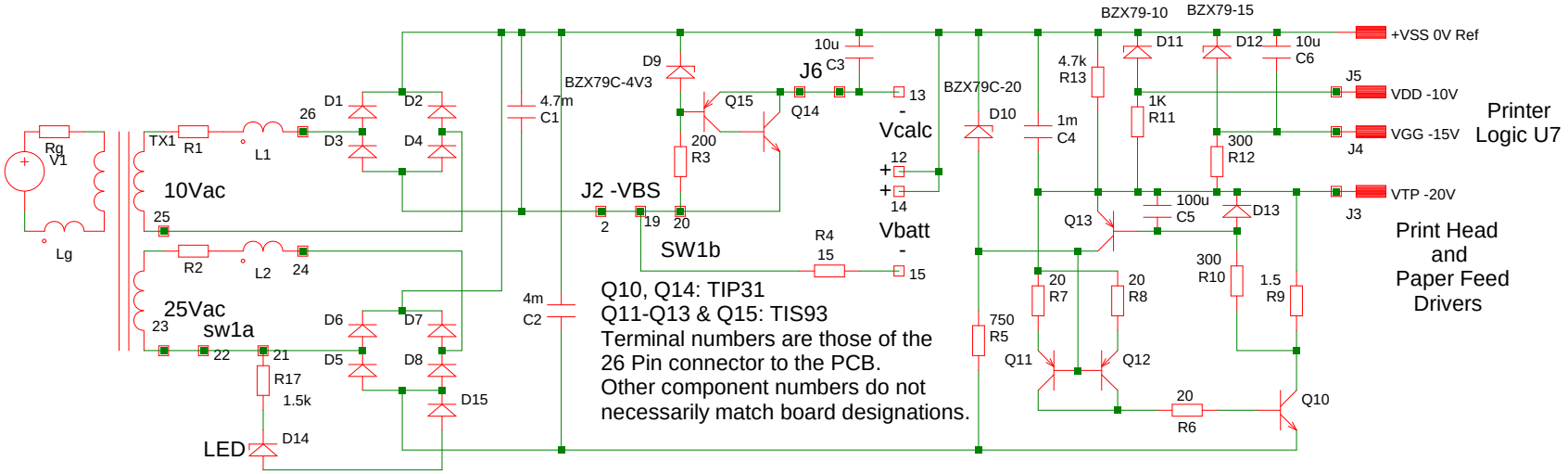

Texas Instruments PC-100B Printer Cradle Power Supply Schematic (used with TI-58/59 Programmable Calculator)

The above PSU circuit has been drawn from the printed circuit in my (UK) version of the PC-100B and should not be relied on for accuracy. It is very different from the power supply schematic contained in Fig 2. of US Patent 4,038,535 "Calculator-Print Cradle System" - Obtainable for $3 from http://patft.uspto.gov/netacgi/nph-Parser?patentnumber=4038535

The implementation of the Printer Logic and Driver circuits (not shown) however is very similar to Fig.3 of that Patent and the calculator pin connections are the same.
Discernable differences are: -
The ROMS #121 and #122 are missing in the PC-100B and there is no ROM Select switch.
U5 Buffers are missing and replaced by jumpers, as are R15 & R16.
The Print Head is a single EPN3120A instead of 5 x EPN3100
The Print Head connector is reduced to 25 pins, all duplicated column feeds E1 - E5 being deleted except those going to the pins opposite #13 - #16 Digit Heads in Item 21.
There is no separate Print Head protection circuit in the PSU and the diodes (161) in Fig. 3 are missing.

Martin A Cragg
July, 2004