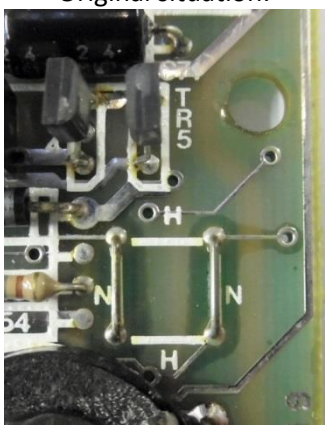
NEC ROM fix for the DivIDE interface

This manual describes how to fix a compatibility problem with the DivIDE interface and a ZX Spectrum 16/48K with NEC ROM.

This does NOT apply to a ZX Spectrum with Hitachi, AMI or other brand ROM.
It does also NOT apply to the DivMMC EnJOY! interface.

A NEC ROM within the ZX Spectrum 16/48K has a low power state that needs more time to resume from, compared to other brands of ROM.
This causes issues with the DivIDE interface with ESXDOS which requires a faster ROM.
To solve this, we can disable the low power state.
This does not have any negative side-effects.

Original situation:



Target situation:

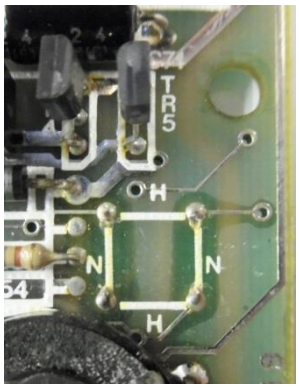
Required:

- Two 1N4148 diodes
- One 10K ohm resistor

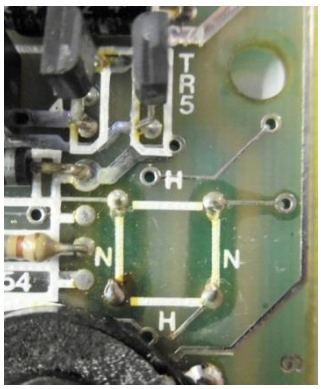
Cut the required parts on the side shown on this photo:

Notice the diode orientation (black line)!

1. Cut the two metal wires that are over the white ‘N’ lines:

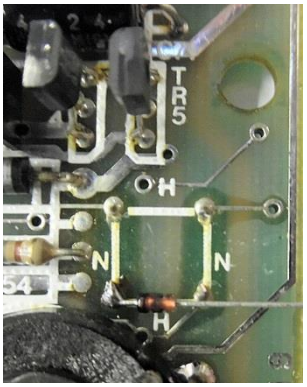


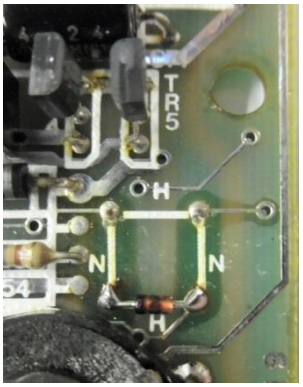
2. Presolder the bottom left pad:



3. Solder the first diode at the presoldered pad.

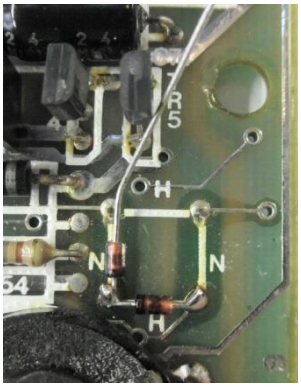
4. Cut the right side of the diode and solder it to the bottom right pad.

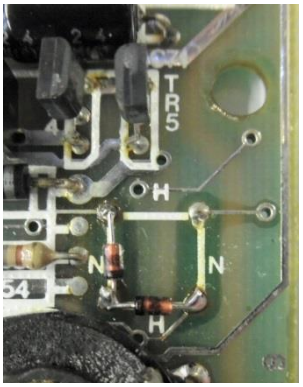




5. Solder the second diode at the presoldered pad.

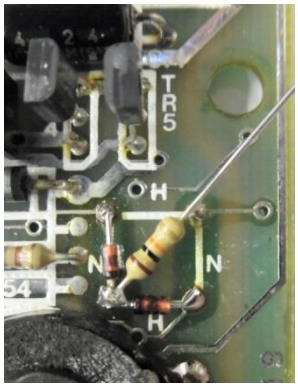
6. Cut the top side of the diode and solder it to the top left pad.

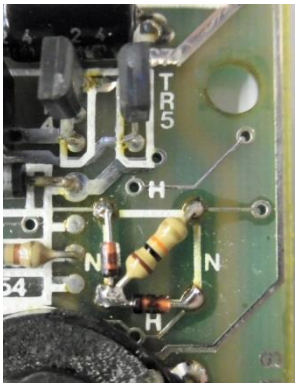




7. Solder the resistor at the presoldered pad.

8. Cut the resistor and solder it to the top right pad.





9. Solder a wire to the top right pad facing up.

Make sure it doesn't touch the thinner wire it crosses!

10. Cut and solder the wire to the thick board wire just above TR5 (this is a ground wire).

You're done!

Ben Versteeg - 2015
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