AY-3-1350 continuous reading

The Elektor board (november 1980) used the automatic stopping function to stop the AY-3-1350 after each melody playing.
It is really simple to power the board in order to use the board all the time to read :

- the melodies one after the other

- a melody in particular

- all the 25 melodies

Modification

Suppress

- D1 to D17,

- R10 and R12,

- C3, C4, C5 and C8,

Replace:

- T1 with a 78L05 (connect the GND of the regulator)

- R9 and D18 with a 100nF capacitor

- R11 by a strap,

on the AY-3-1350,

- leave pin 15 not connected

- connect pin 9 to the common ES1-ES4 by connecting **P** and **N**,

- connect **R** to pin 17 ("restart" function),

- connect **S** to pin 10 ("next tune" function).

Use

S_A → read one melody (chosen by connecting **A, B, C, D,** or **E** to GND or pin 15 to **K, L, M,** or **N**) in loop if connected.

S_B → read each melody one after the other or in loop in maintained.

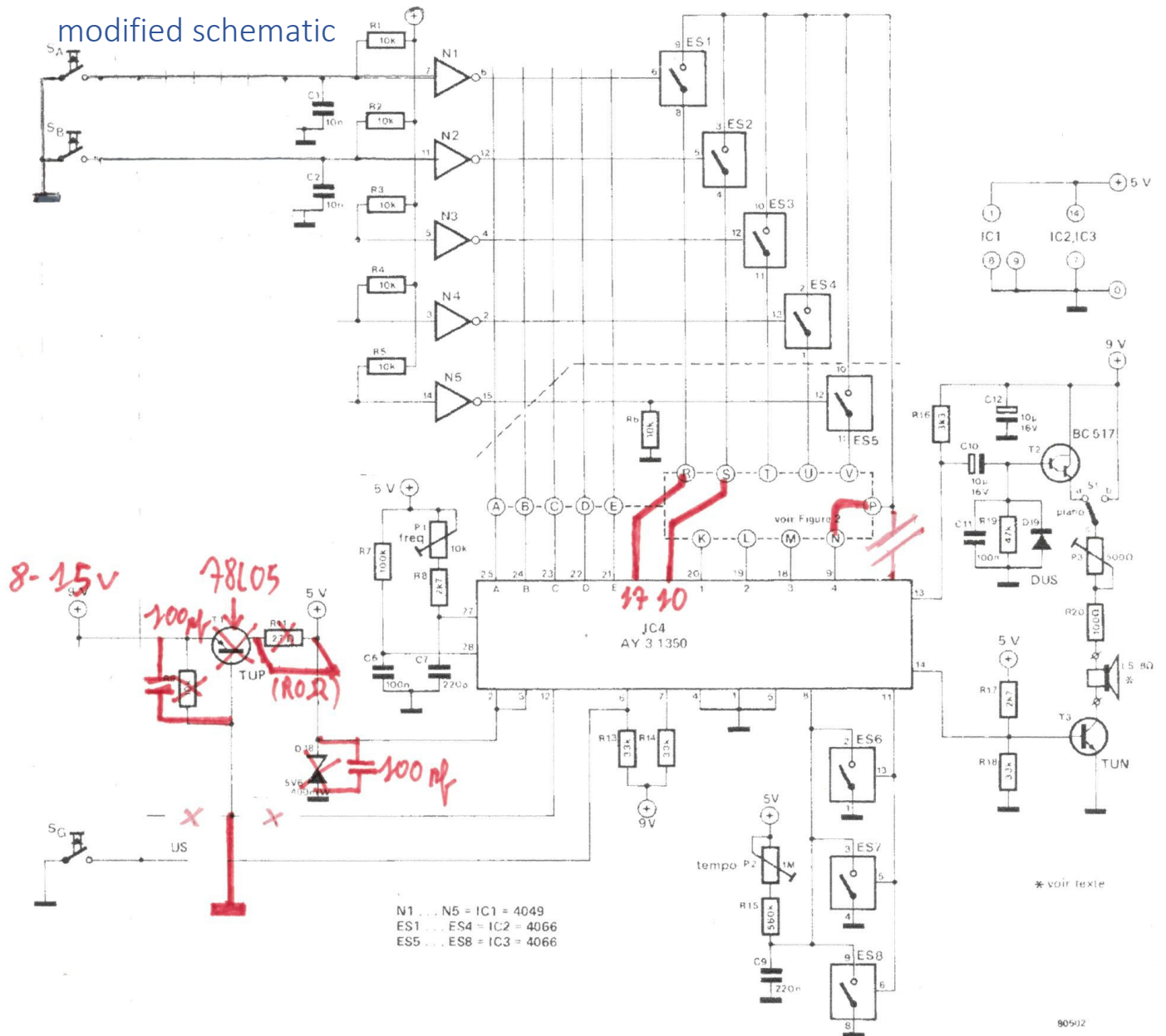S_G → reading one octave lower.

improvements…

New melodies by using 9 ports (D0-D7 +A0) of a Arduino card to simulate a external eprom.

Use another chip as the AY-3-8910/30…

modified schematic

8-15v
78L05
100nf
(R0Ω)
100 nf

N1 . . . N5 = IC1 = 4049
ES1 . . . ES4 = IC2 = 4066
ES5 . . . ES8 = IC3 = 4066

JC4
AY 3 1350

R.Dubois 08/2020

PCB