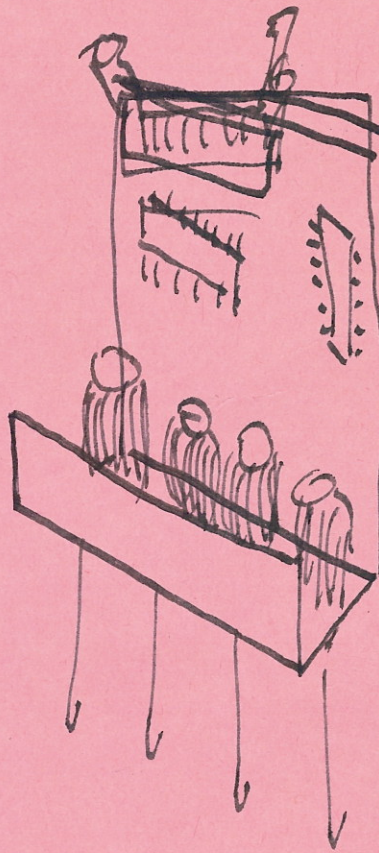


P2

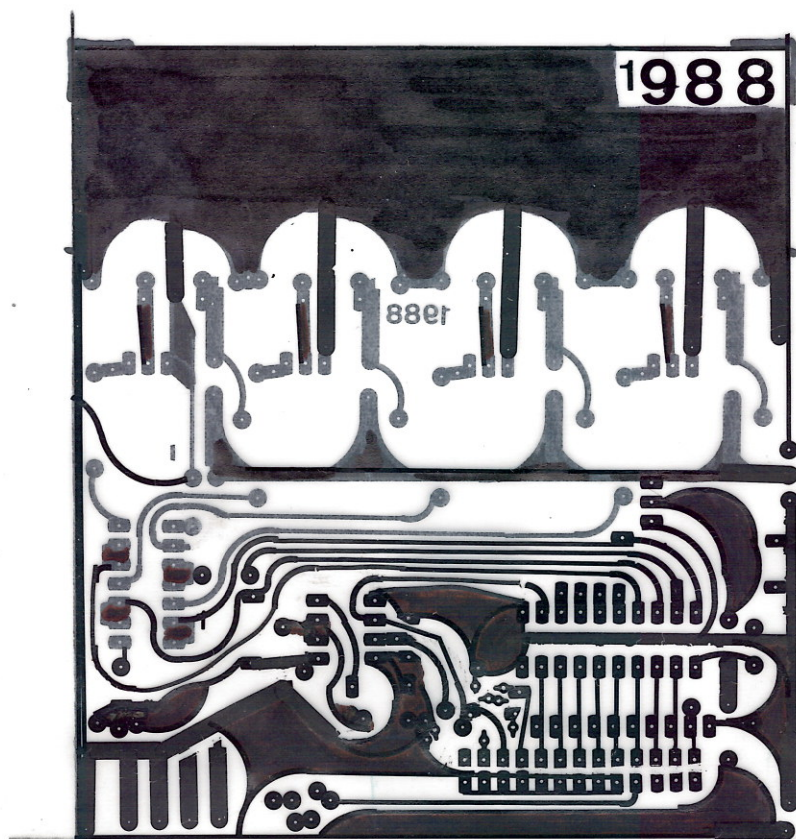
Printernaald driver



[- 8-bit parallel input
(4 bits only used)

Roberto

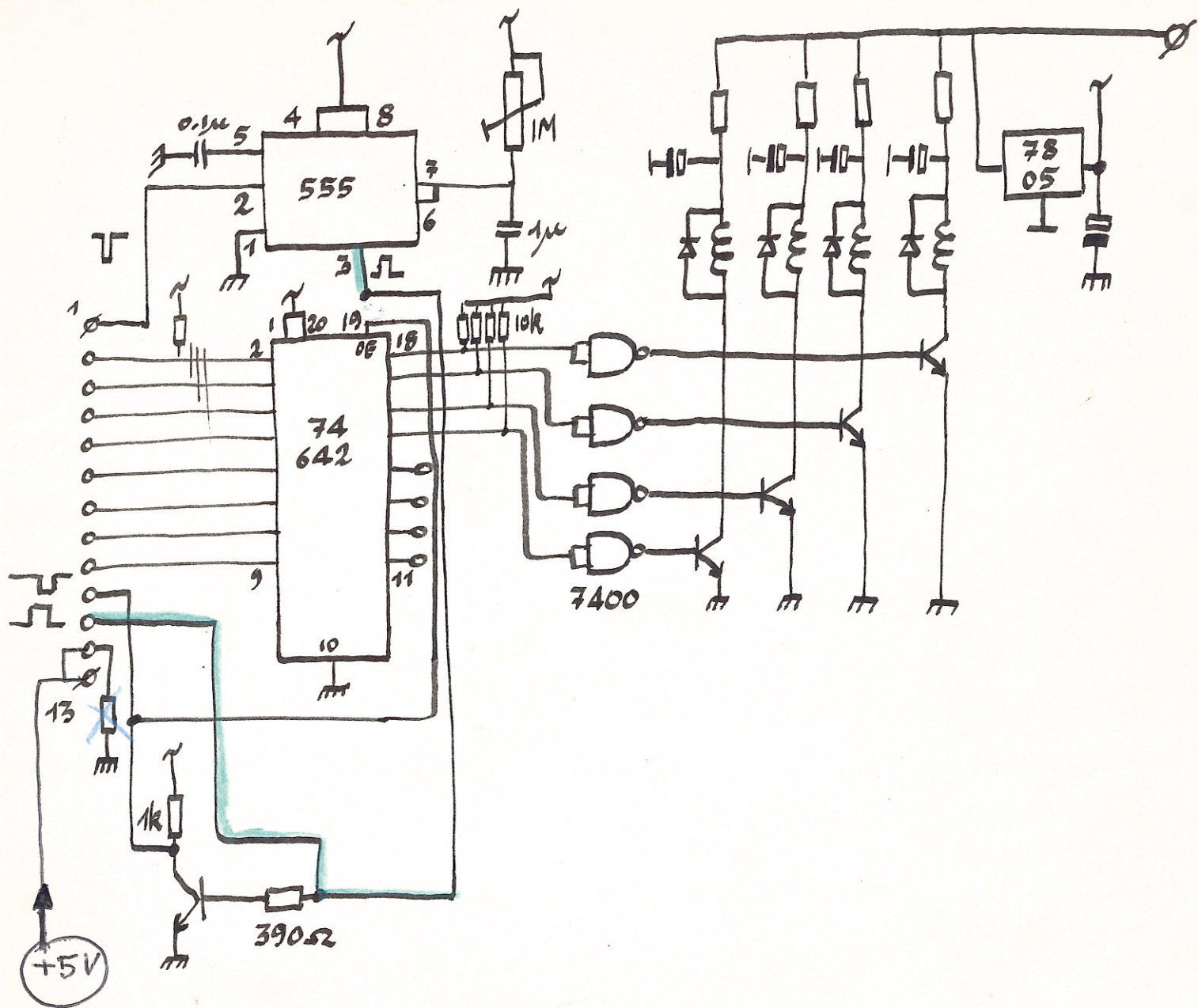
4 3 2 1



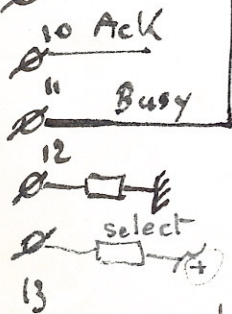
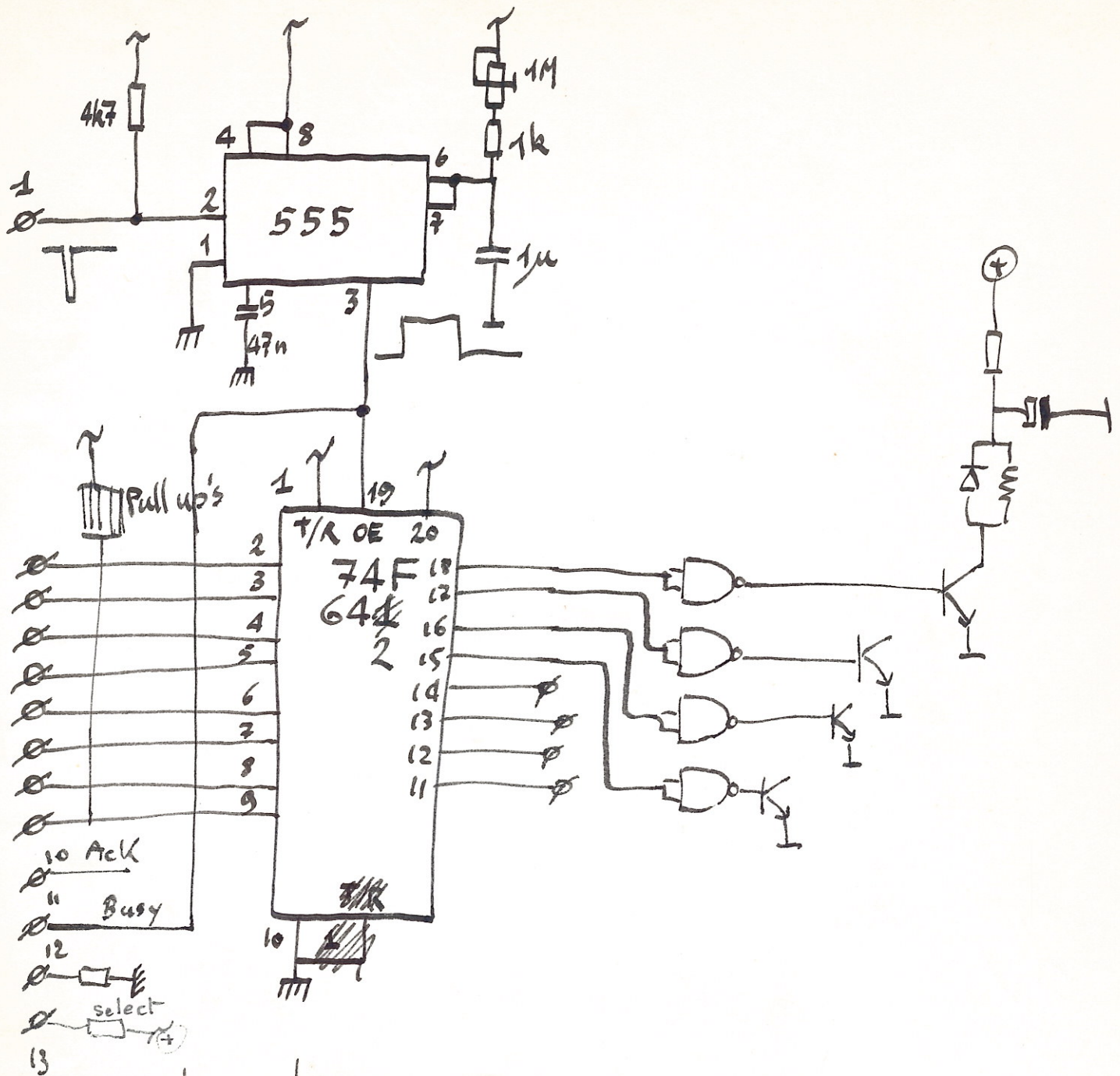
[deze kaart lezen
de foto print
aandrukken

01/1988.

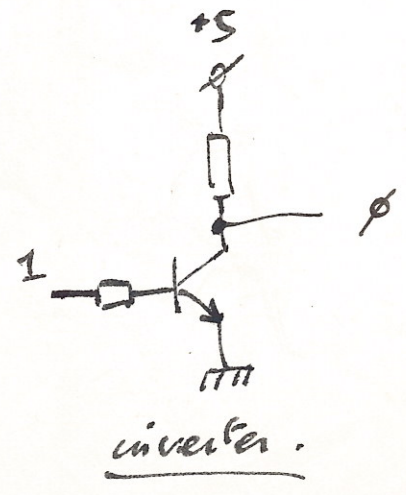
Printernaald-
driver

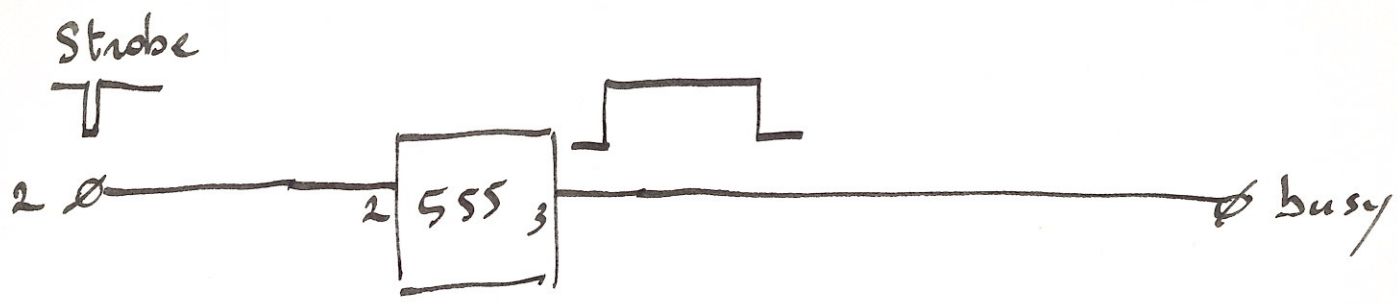


8 08/88.
 Voeding via flatcable.



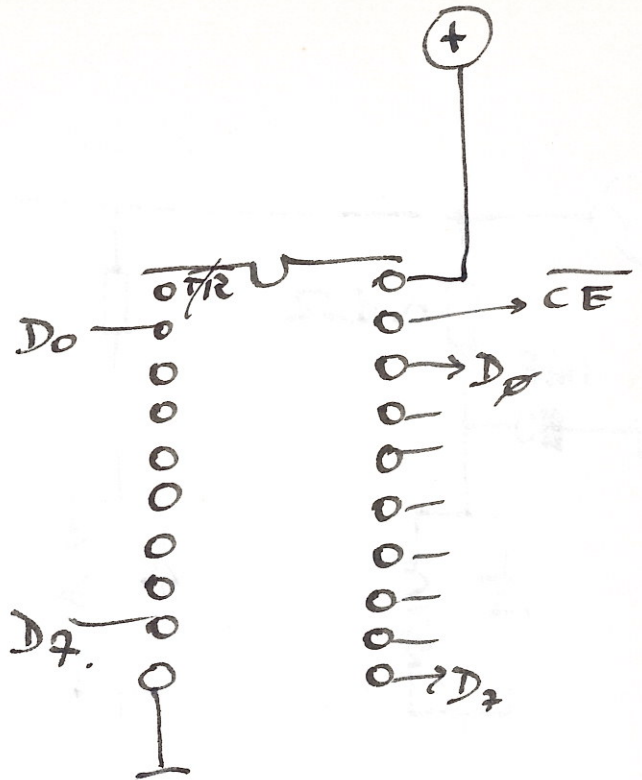
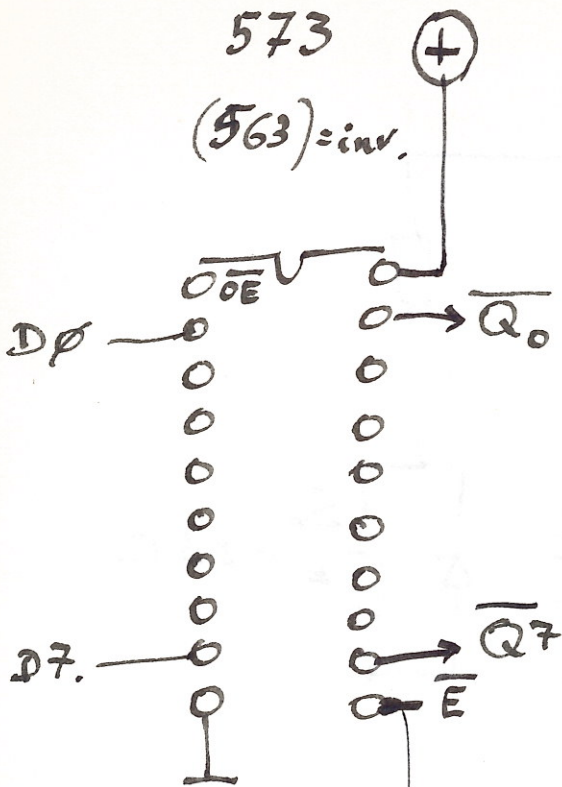
T/R	\overline{OE}	
1	\emptyset	A=B
1	1	Hi-Z.





Latch
573

(563) = inv.



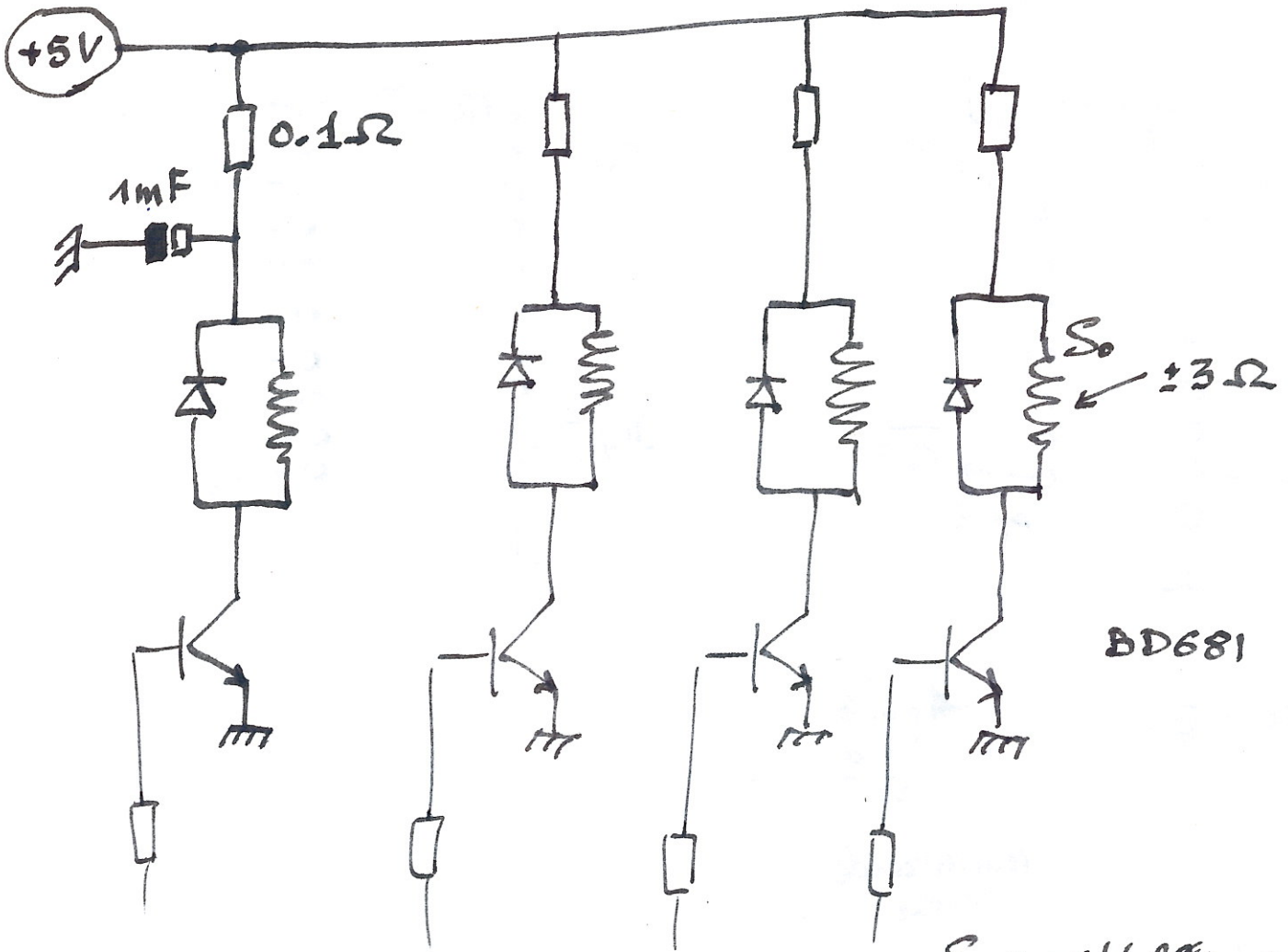
\overline{OE} | \overline{E}

pin 3
vld
555
↑
peinvertende
strobe!

$$E = 1 \Rightarrow D_0 \dots \Rightarrow \overline{Q_0}$$

$$\overline{OE} = \emptyset \Rightarrow \text{data op output}$$

$$1 \Rightarrow \text{Hi } \geq \text{ output}$$

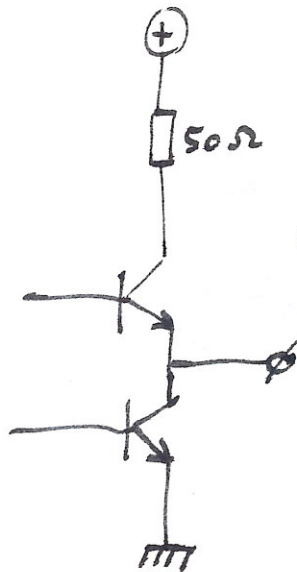


BD681

RC konstante 1/255

→ C = 1mF
 ⇒ R = 40Ω!
 onmogelijk!

→ U_i:



Totem-pole
TTL

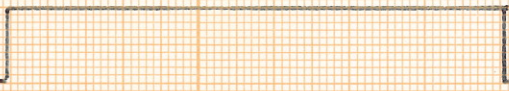
S₀ = wikkeling
 epoetjes ;
 ca. 10meter
 Cu 0,3mm
 (0,32mm met
 isolatie lak)

STROBE

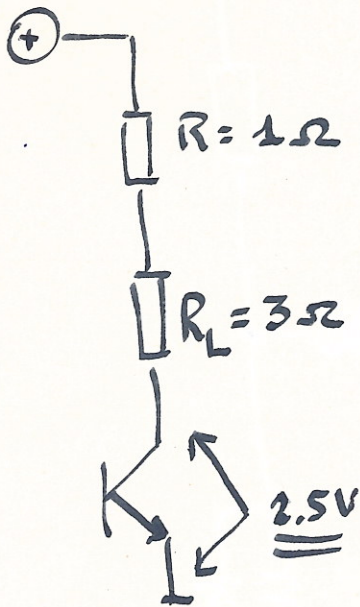


valid

555
pin 3



$$U = IR$$



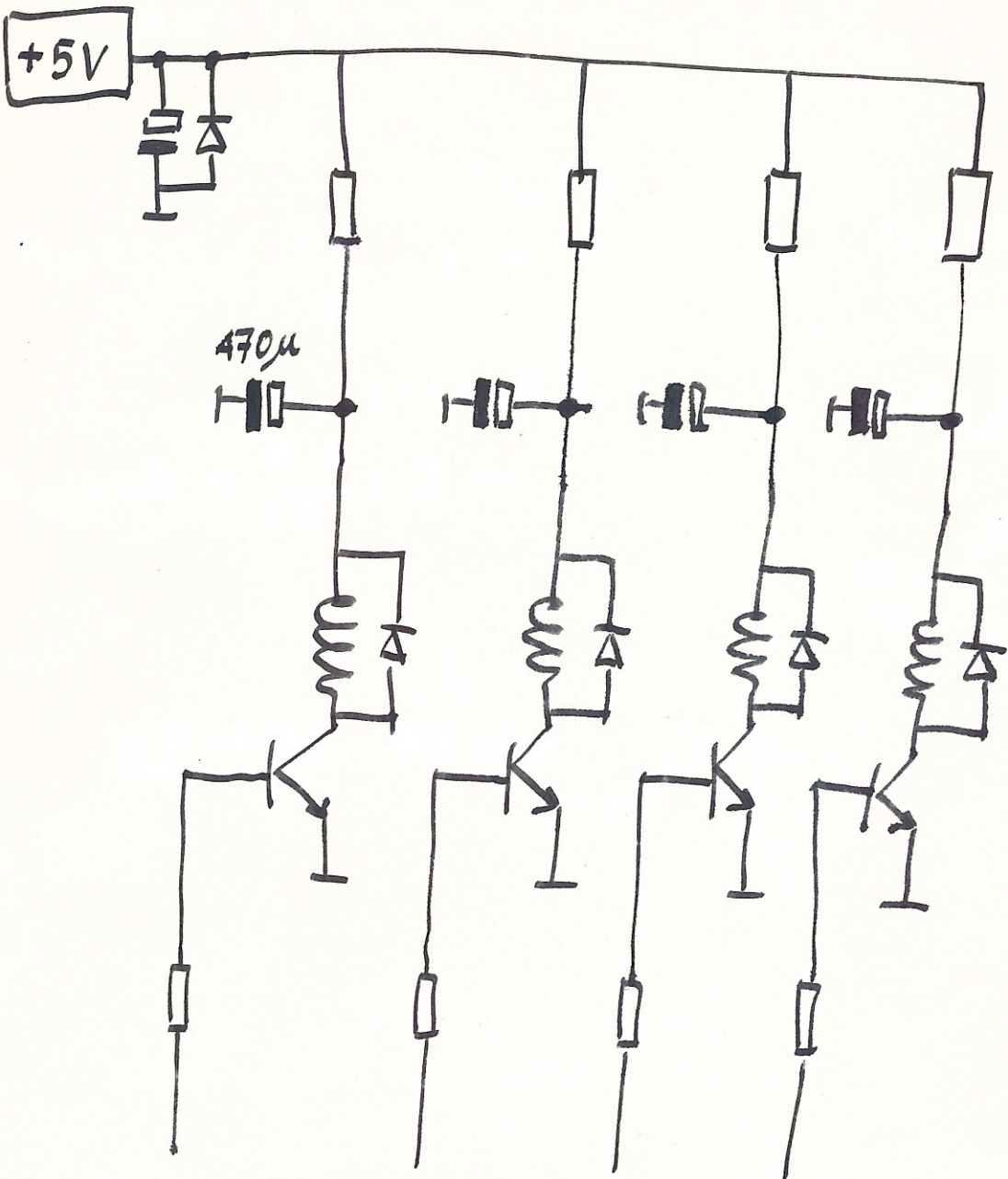
if $U_b = 5V$.

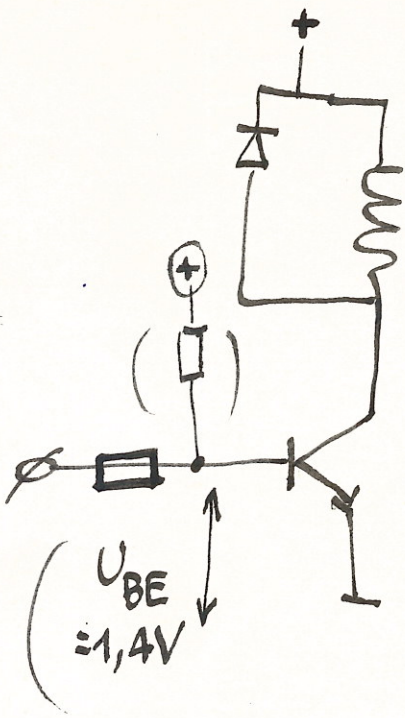
$$\rightarrow I = \frac{2.5}{4} = 625mA$$

if $R = 0.1\Omega$

$$\rightarrow I = \frac{2.5}{3.1} = 800mA.$$

$$P_{R_{max}} = 1A \cdot 1\Omega \cdot 1A = \underline{\underline{1W}}$$





Darlington!
 bvb. TIP110
 $(\beta = 1000)$

of BD681

$$V_{CEsat} = 2V$$

$$\beta = 1000 \quad @ \quad I_c = 1 \text{ Amp}$$

$$\rightarrow I_b = \frac{1}{1000} = \underline{\underline{1 \text{ mA}}}$$



$$\underline{\text{Dissip}} = 1A \times 2V = \underline{\underline{2W}}$$

(max 50W)!

$$V_L = 3V / 1A$$

$$\rightarrow R_L = \frac{3}{1} = \underline{\underline{3\Omega}}$$

