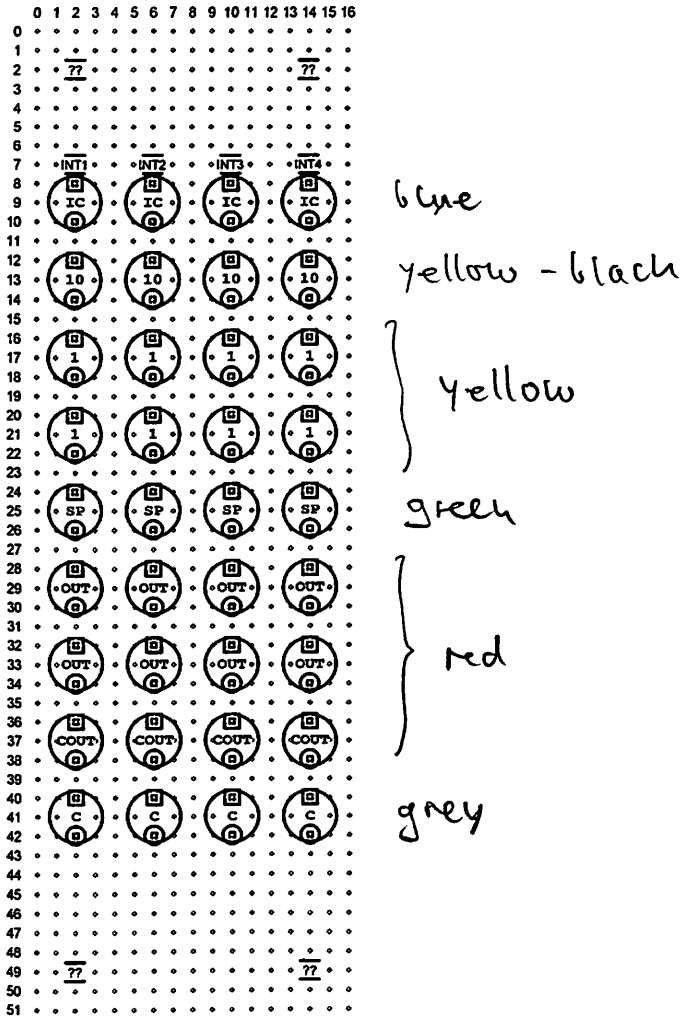
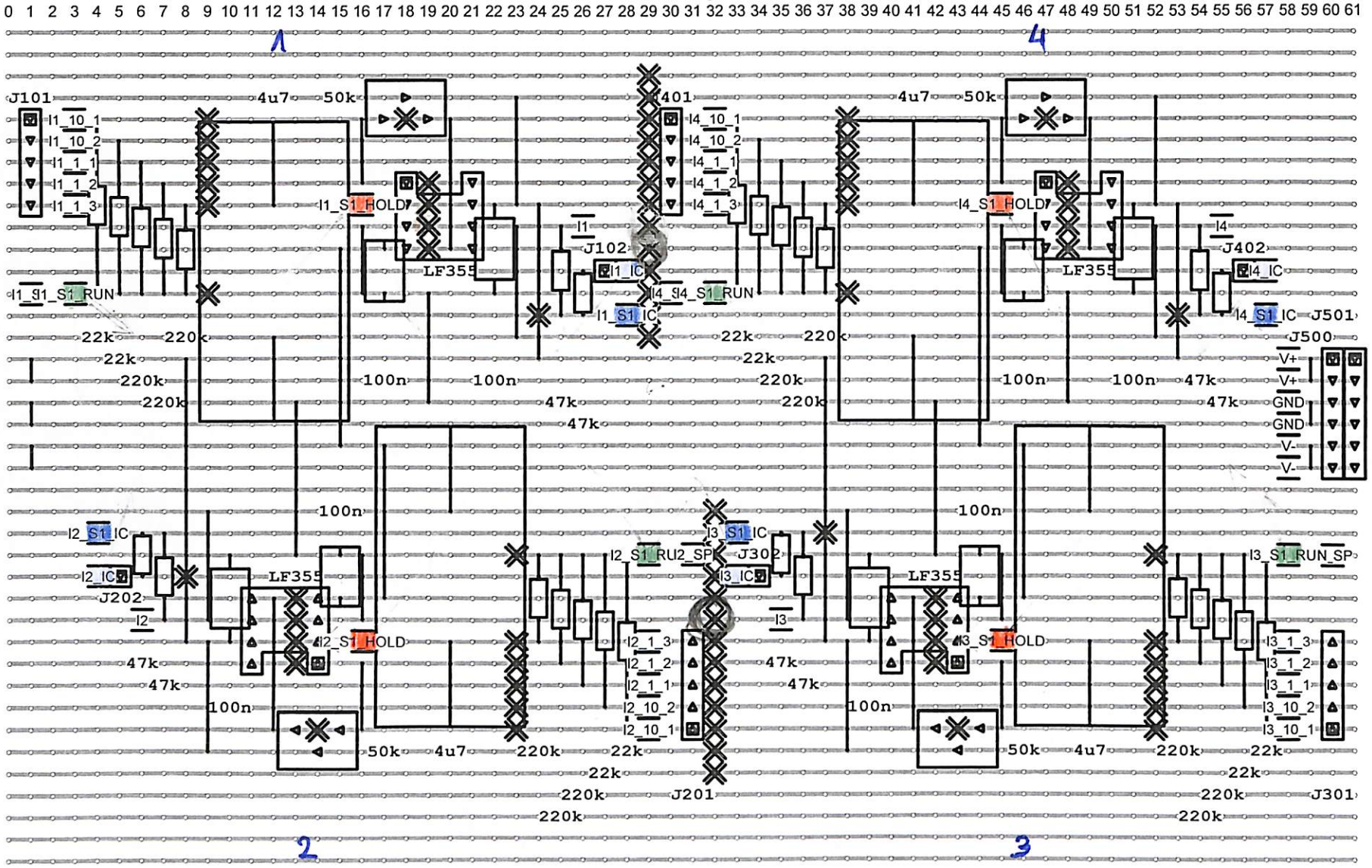
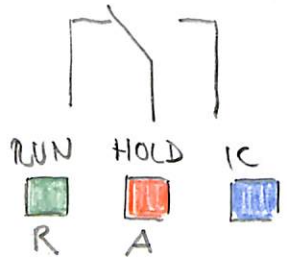
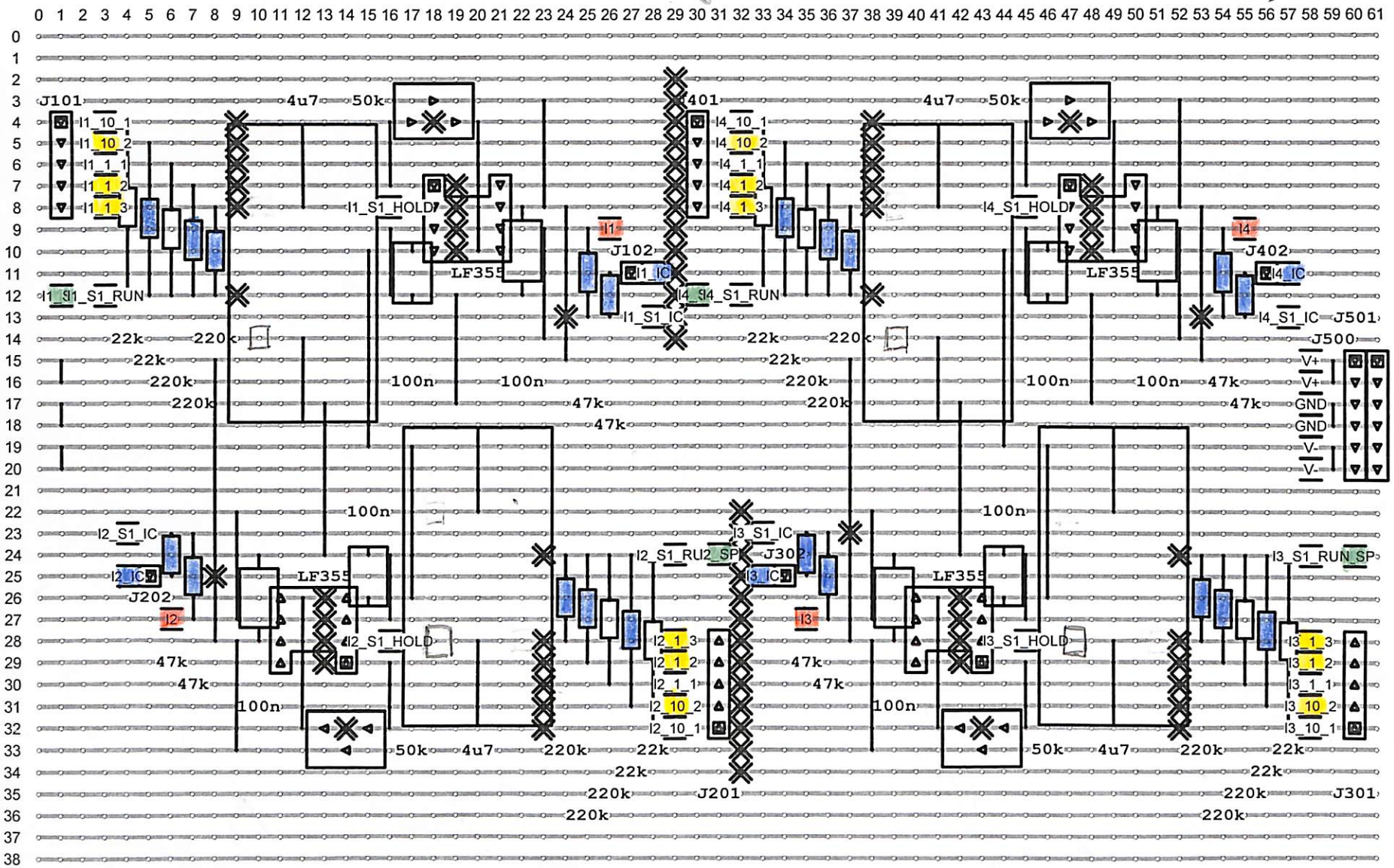

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
??
??
INT1
INT2
INT3
INT4
IC
10
1
SP
OUT
COUT
C
??
??
blue
yellow - black
yellow
green
red
grey

Integrator V2 – Relais-Board Connections





Integrator V2 - Front Panel connections



1/10

SP

INT

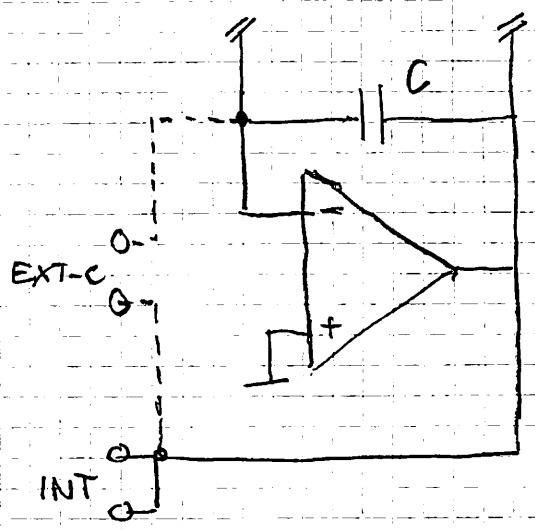
IC

☐ connection for external capacitor,
+ provide 3 INT connectors instead of 2.

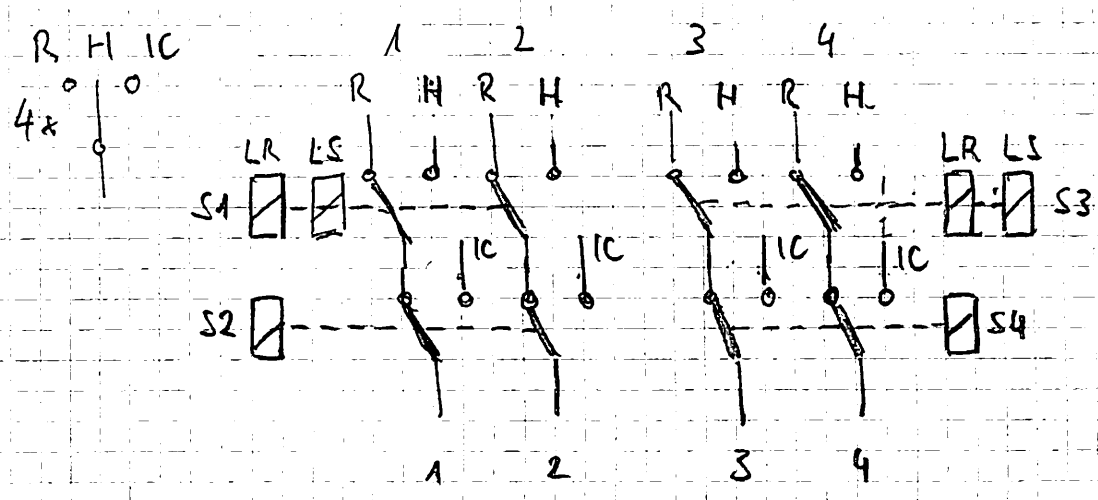
26.11.2017

Analog Computer Integrator V2

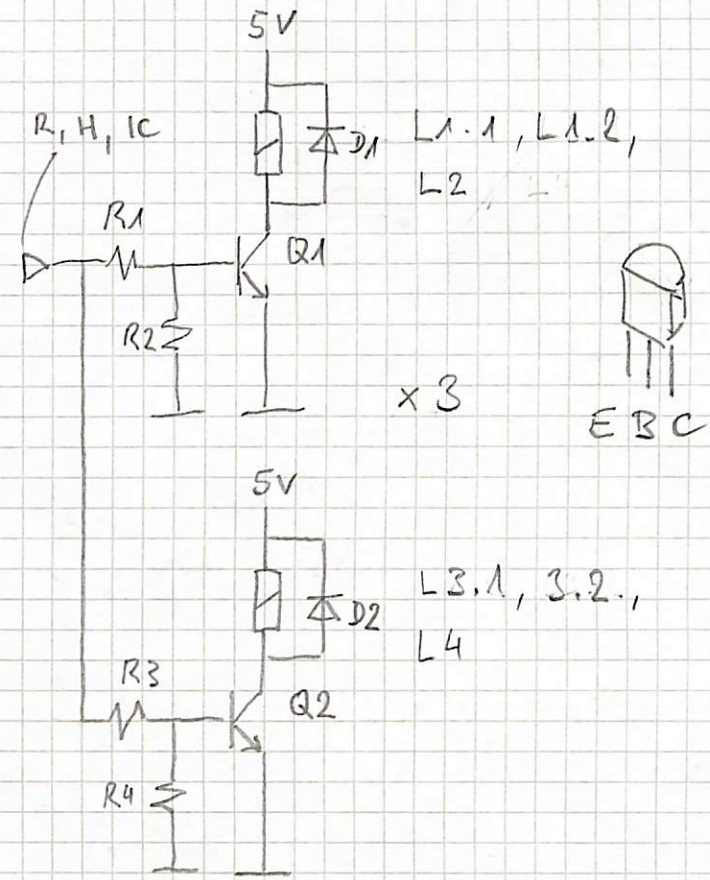
Extension for external integration capacitors



Relais-Switching the Integrator



S1, S3 fistable, two coils
S2, S4 monostable, single coil



L1.1, L1.2, L2

L1, L3 I = 40mA

L2, L4 I = 30mA

Qn = 2N4401

h_{FE} (10mA) = 80

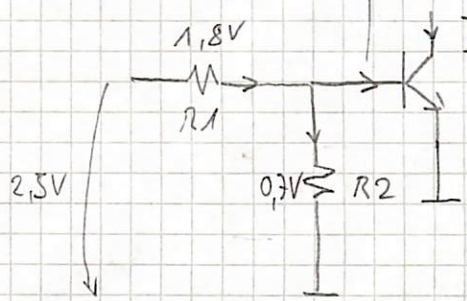
R1, R3 =

R2, R4 =

L3.1, 3.2., L4

D1, D2 = 1N4148

$I_B = \frac{40mA}{80} = 500\mu A$



$I_{R1} - I_B - I_{R2} = 0$

$\frac{1,8V}{R1} - 500\mu A - \frac{0,7V}{R2} = 0$

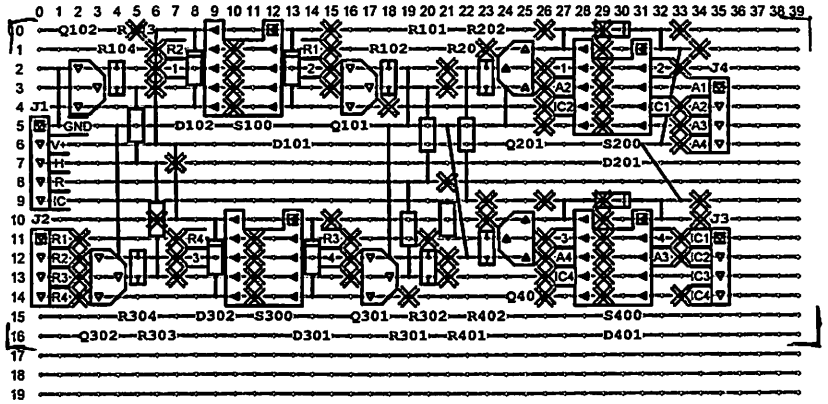
$I_{R1} = 700\mu A$ $R_1 = 2571\,\Omega$

$R_1 = 2k7 \rightarrow I_{R1} = 667\mu A$

$R_2 = \frac{0,7}{167\mu A} = 4191\,\Omega = 4k7$

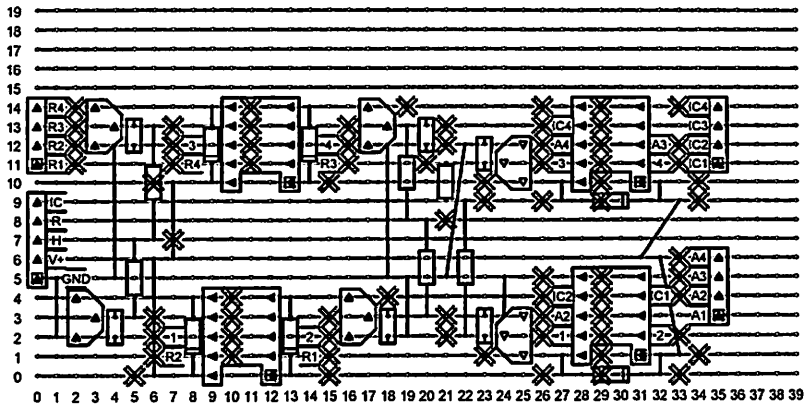
F

Integrator V2 – Relais-Board



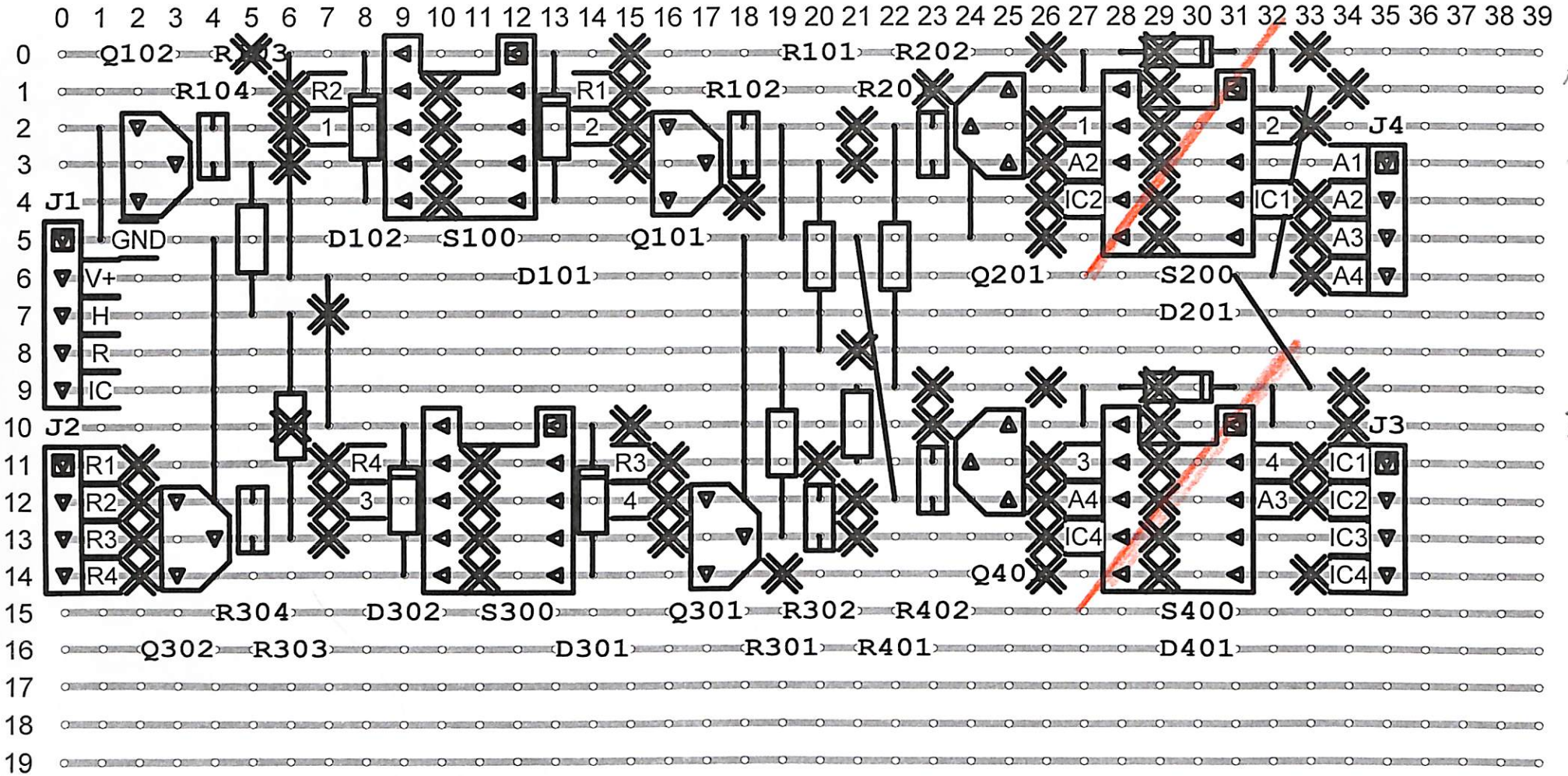
R

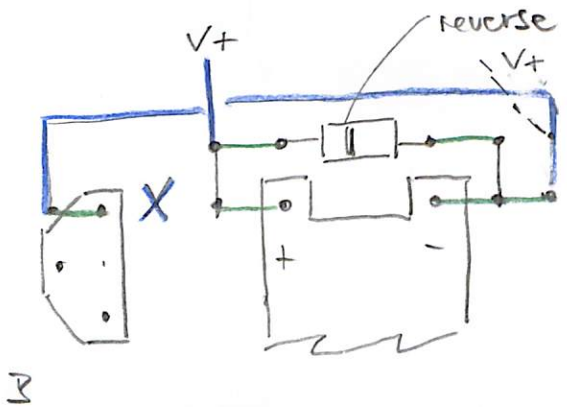
Integrator 1/2 - Relais-Board

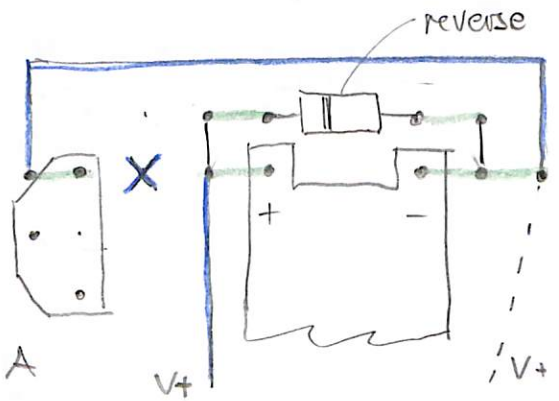


F

Integrator V2 – Relais-Board







add

remove