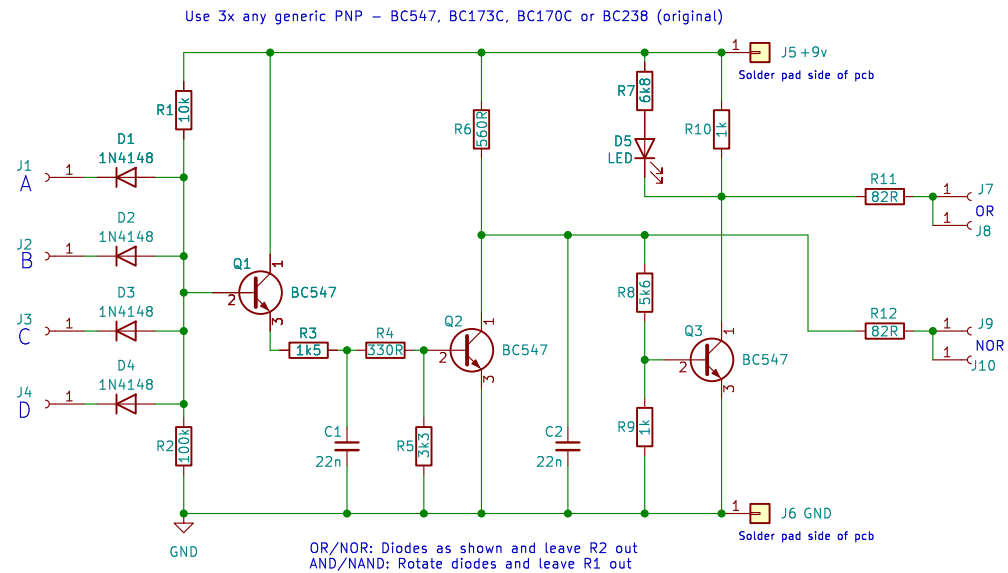




Classic FT 4–input gate

NEGATIVE LOGIC

Arnoud van Delden
Whizzbizz

Sheet: /
File: Classic FT 4–input Gate.kicad_sch

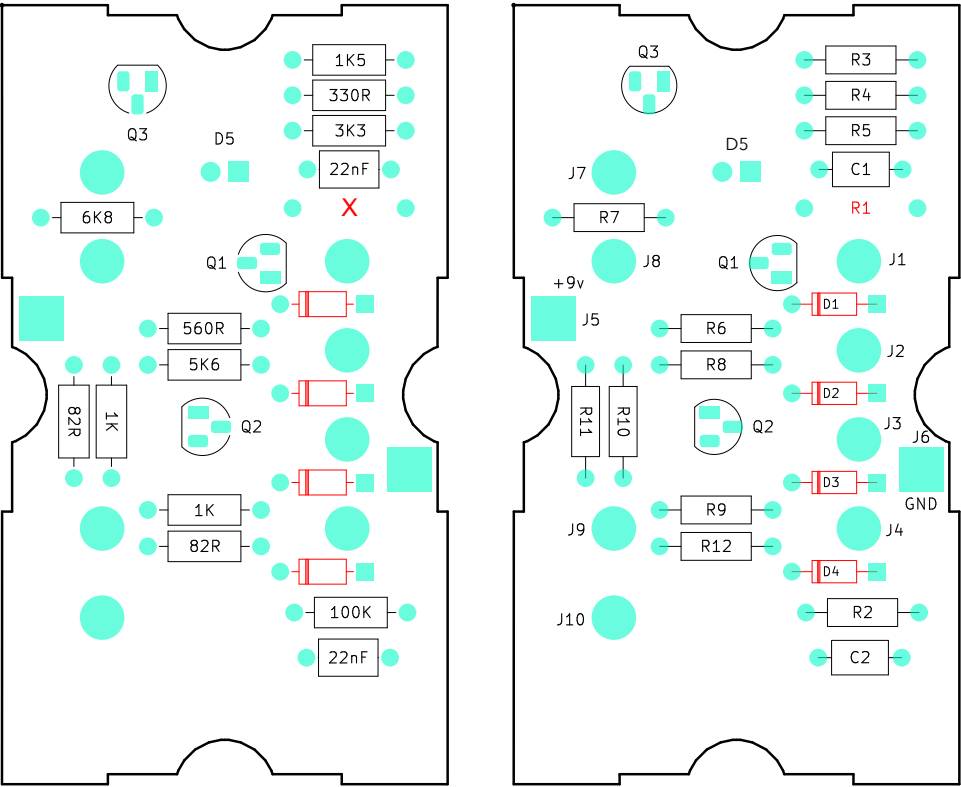
Title: Classic analog FT 4–input gate

Size: A4 Date: 2024–05–14
KiCad E.D.A. kicad 7.0.10

Rev:
Id: 1/1

Classic fischertechnik AND/NAND "Silberling" rebuild - onderdelenlijst en componentenopstelling
Classic fischertechnik AND/NAND "Silberling" rebuild - parts list and component layout
Classic fischertechnik AND/NAND "Silberling" Rekonstruktion - Stückliste und Bauteilanordnung

Classic FT AND/NAND



AND/NAND: De vier diodes andersom solderen dan de afdruk op de pcb aangeeft en de positie van R1 leeglaten op de print

AND/NAND: Solder the four diodes the other way than the printout on the pcb indicates and leave the position of R1 blank on the pcb

AND/NAND: Löten Sie die vier Dioden andersherum als auf der Platine angegeben und lassen Sie die Position von R1 frei

Designator	Type	Quantity	Value
Silberling Case	3D Printed	1	
Module lid with front plate	3D Printed + Laminated Front	1	
Screw 2x6 for lid		4	
3mm Metal Strip Long	3mm Metal Strip Long	2	
3mm Metal Strip Short	3mm Metal Strip Short	2	
J1, J2, J3, J4, J7, J8, J9, J10	PTN2-10 pin for FT plug	8	
C1, C2	Small Ceramic Capacitor	2	22 nF
D1, D2, D3, D4	Diode - Rotate on PCB!	4	1N4148
D5	LED 3mm	1	LED
J5	Side Strip Solder	1	+9v
J6	Side Strip Solder	1	GND
Q1, Q2, Q3	Generic NPN Transistor TO-92	3	BC547
R1	Not Used	0	
R2	1/4W Resistor	1	100K Ω
R3	1/4W Resistor	1	1K5 Ω
R4	1/4W Resistor	1	330 Ω
R5	1/4W Resistor	1	3K3 Ω
R6	1/4W Resistor	1	560 Ω
R7	1/4W Resistor	1	6K8 Ω
R8	1/4W Resistor	1	5K6 Ω
R9, R10	1/4W Resistor	2	1K Ω
R11, R12	1/4W Resistor	2	82 Ω