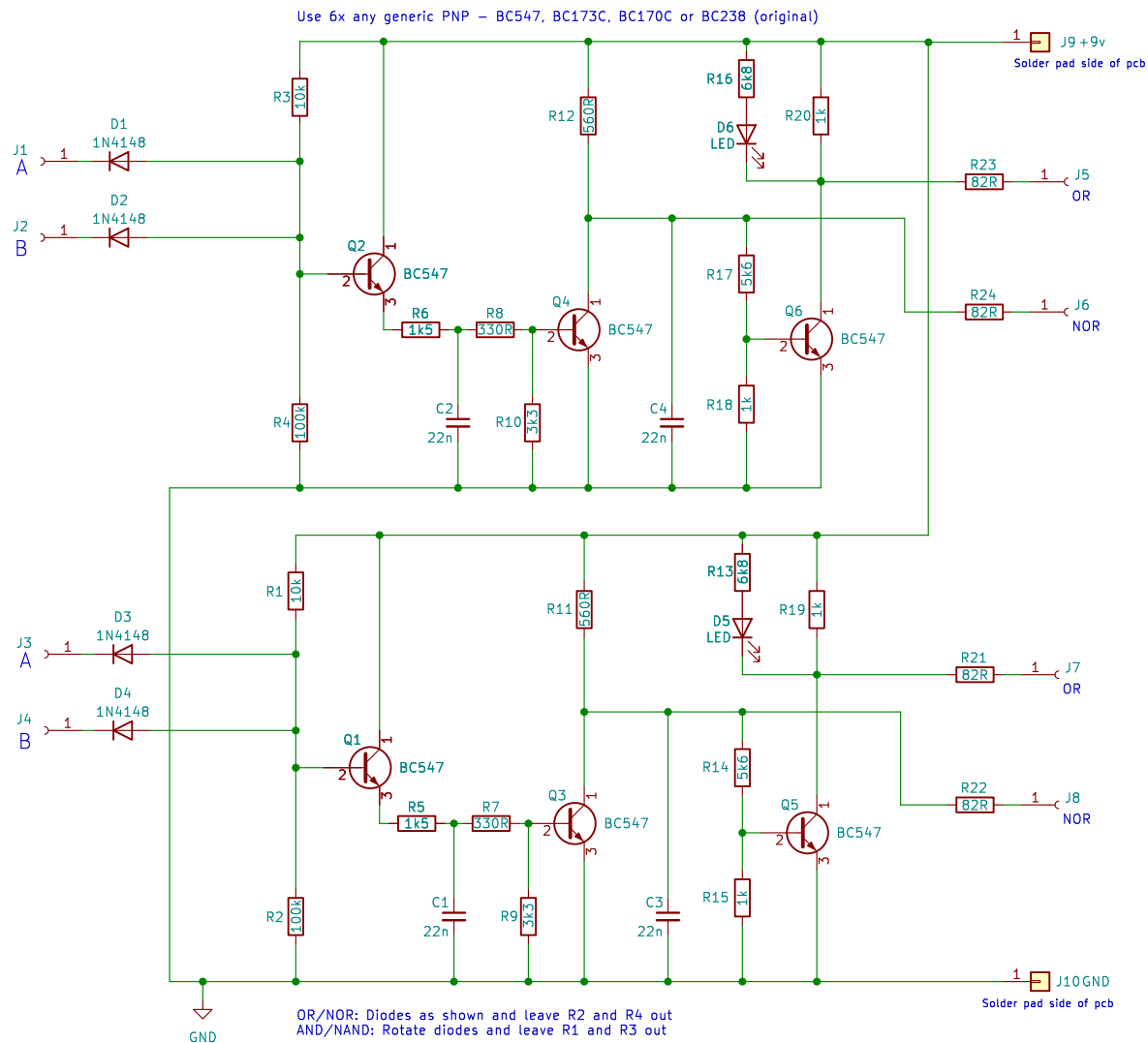




Classic Dual FT 2-input gate

NEGATIVE LOGIC

Arnoud van Delden

Whizzbizz

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Title: Classic Dual FT 2-input gate

Size: A4

Date: 2025-08-17

Rev:

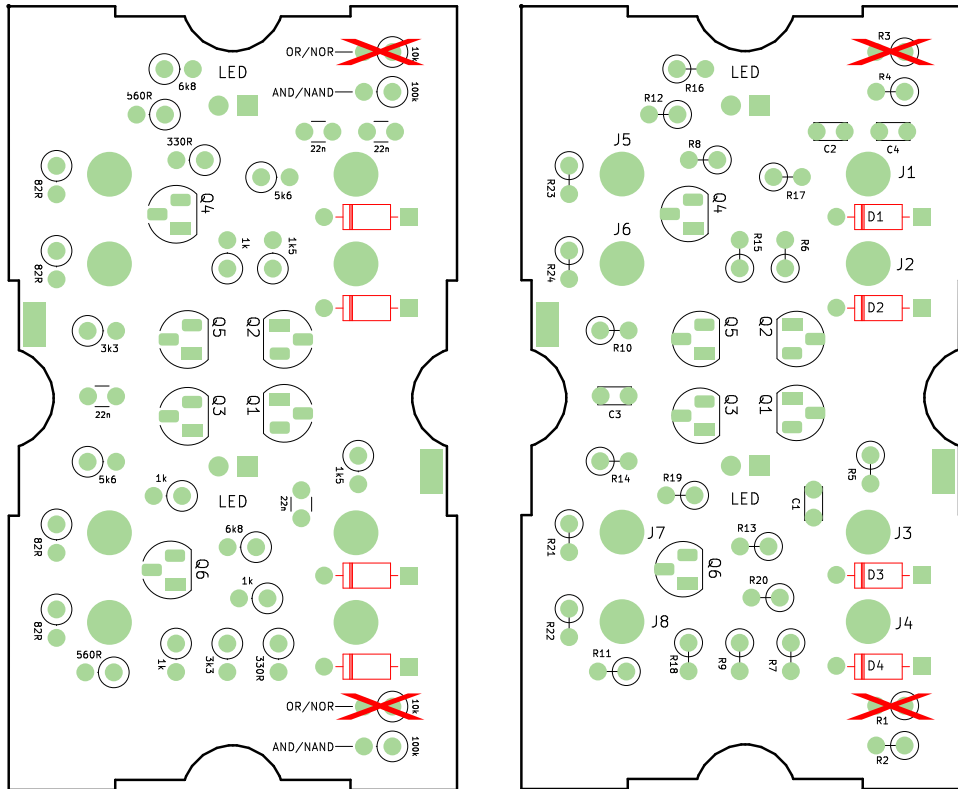
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Classic fischertechnik Dual AND/NAND "Silberling" - onderdelenlijst en componentenopstelling

Classic fischertechnik Dual AND/NAND "Silberling" - parts list and component layout

Classic fischertechnik Dual AND/NAND "Silberling" - Stückliste und Bauteilanordnung



AND/NAND: De vier diodes **andersom** solderen dan de afdruk op de pcb aangeeft en de positie van **R1 en R3 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 and R3 blank** on the pcb

AND/NAND: Löten Sie die vier Dioden **andersherum** als auf der Platine angegeben und lassen Sie die Position von **R1 und R3 frei**

Dual 2-input AND/NAND Gate

Reference	Footprint	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, J5, J6, J7, J8	PTN2-10 pin for FT plug	8	
C1, C2, C3, C4	Small Ceramic Capacitor	4	22n
D1, D2, D3, D4	Diode - Rotate on PCB!	4	1N4148
D5, D6	LED 3mm	2	LED
Q1, Q2, Q3, Q4, Q5, Q6	Generic NPN Transistor TO-92	6	BC547
R1, R3	Not Used	0	
R2, R4	1/4W Resistor (vertically mounted)	2	100K Ω
R5, R6	1/4W Resistor (vertically mounted)	2	1K5 Ω
R7, R8	1/4W Resistor (vertically mounted)	2	330 Ω
R9, R10	1/4W Resistor (vertically mounted)	2	3K3 Ω
R11, R12	1/4W Resistor (vertically mounted)	2	560 Ω
R13, R16	1/4W Resistor (vertically mounted)	2	6K8 Ω
R14, R17	1/4W Resistor (vertically mounted)	2	5K6 Ω
R15, R18, R19, R20	1/4W Resistor (vertically mounted)	4	1K Ω
R21, R22, R23, R24	1/4W Resistor (vertically mounted)	4	82 Ω