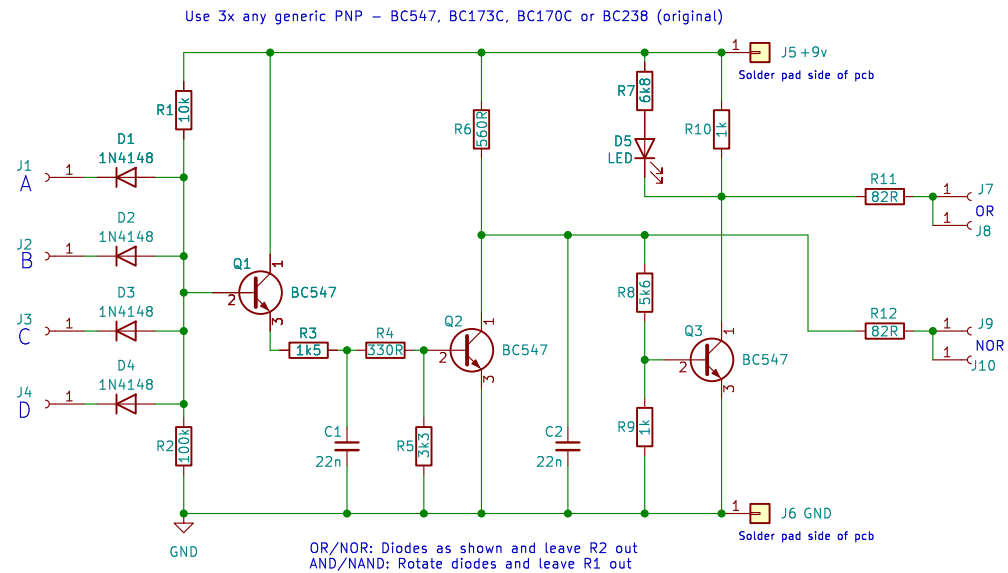




## Classic FT 4–input gate

NEGATIVE LOGIC

Arnoud van Delden  
**Whizzbizz**

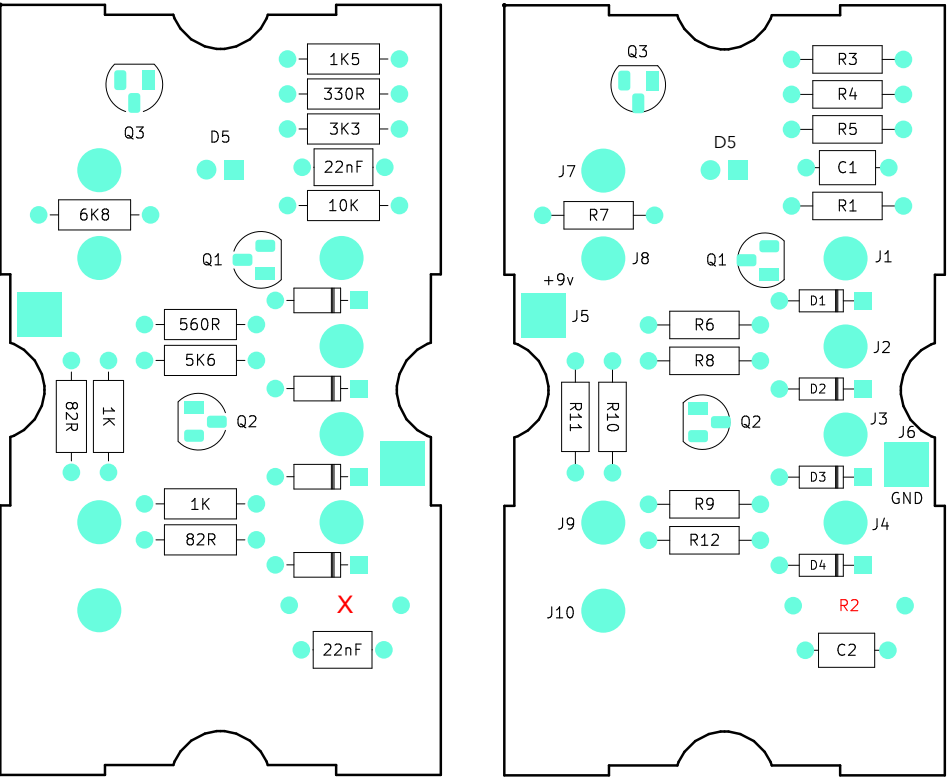
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**Title: Classic analog FT 4–input gate**

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

Rev:  
Id: 1/1

Classic fischertechnik OR/NOR "Silberling" rebuild - onderdelenlijst en componentenopstelling  
Classic fischertechnik OR/NOR "Silberling" rebuild - parts list and component layout  
Classic fischertechnik OR/NOR "Silberling" Rekonstruktion - Stückliste und Bauteilanordnung



OR/NOR: De positie van **R2 leeglaten** op de print

OR/NOR: Leave the position of **R2 blank** on the pcb

OR/NOR: Lassen Sie die Position von **R2 frei**

Classic FT OR/NOR

| 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                  | Small Diode                  | 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                              | 1/4W Resistor                | 1        | 10K $\Omega$ |
| R2                              | Not Used                     | 0        |              |
| R3                              | 1/4W Resistor                | 1        | 1K5 $\Omega$ |
| R4                              | 1/4W Resistor                | 1        | 330 $\Omega$ |
| R5                              | 1/4W Resistor                | 1        | 3K3 $\Omega$ |
| R6                              | 1/4W Resistor                | 1        | 560 $\Omega$ |
| R7                              | 1/4W Resistor                | 1        | 6K8 $\Omega$ |
| R8                              | 1/4W Resistor                | 1        | 5K6 $\Omega$ |
| R9, R10                         | 1/4W Resistor                | 2        | 1K $\Omega$  |
| R11, R12                        | 1/4W Resistor                | 2        | 82 $\Omega$  |