

CW Audiofilter for the VHF-Transceiver Braun SE400

The Braun SE400 has an optional audiofilter for CW, which is a bandpassfilter consisting of High- and Low pass filters – see schematic.

Even when this option is not installed, the pcb is present but without components. So it's rather easy to install these components; but there is no layout available, therefore a reengineering was necessary! The following pages show the schematic with numbered parts (numbering by me – not from the manufacturer), layouts, partslists and a simulation of the filter in LTSpice. The dataset for the LTSpice simulation is available on my website:

<http://www.dl7maj.de/Braun.html>

Details of the mechanical works and construction can be seen in my videos on YT:

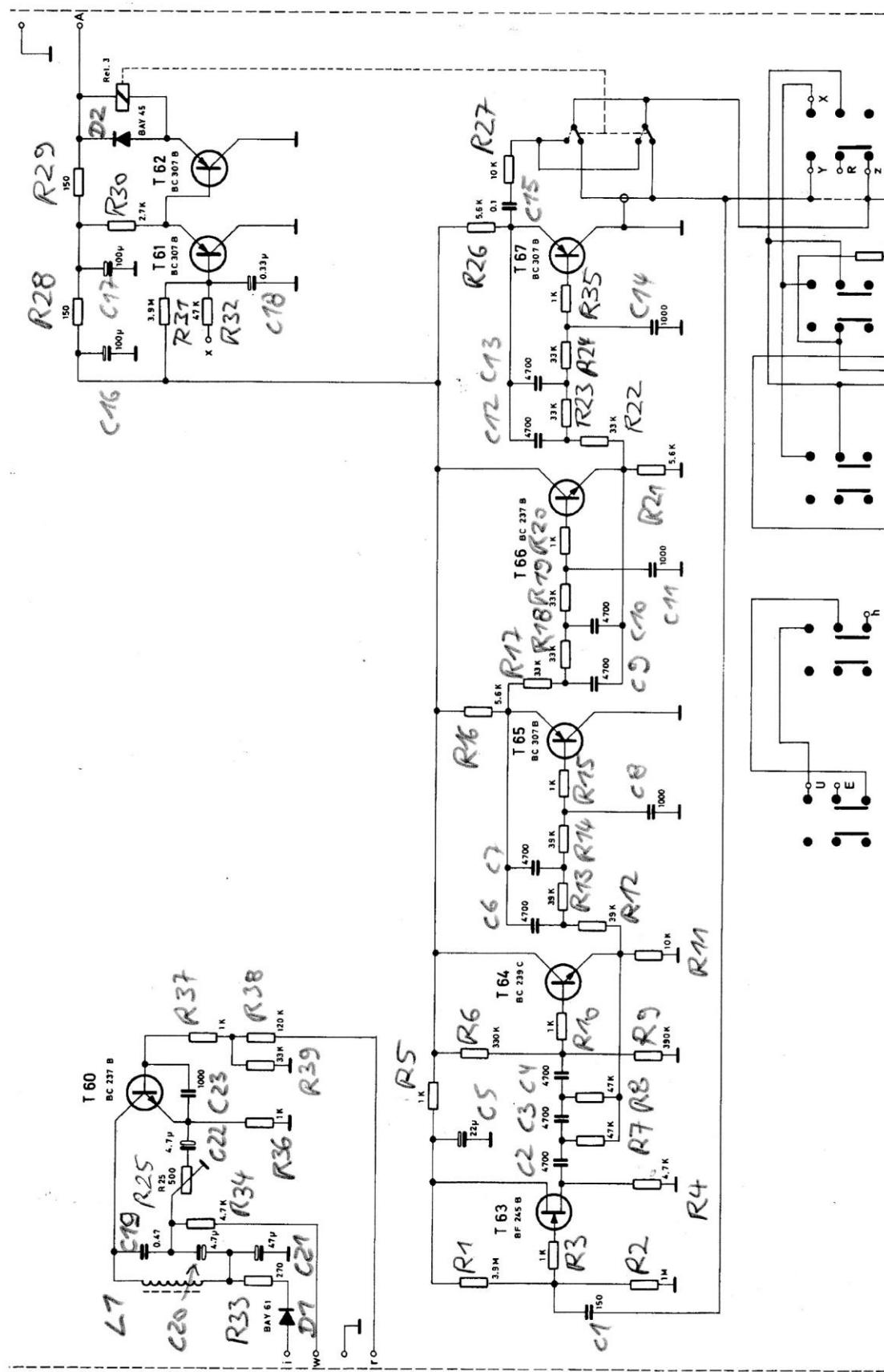
Part 1: <https://youtu.be/zj3SxCFO-4Y>

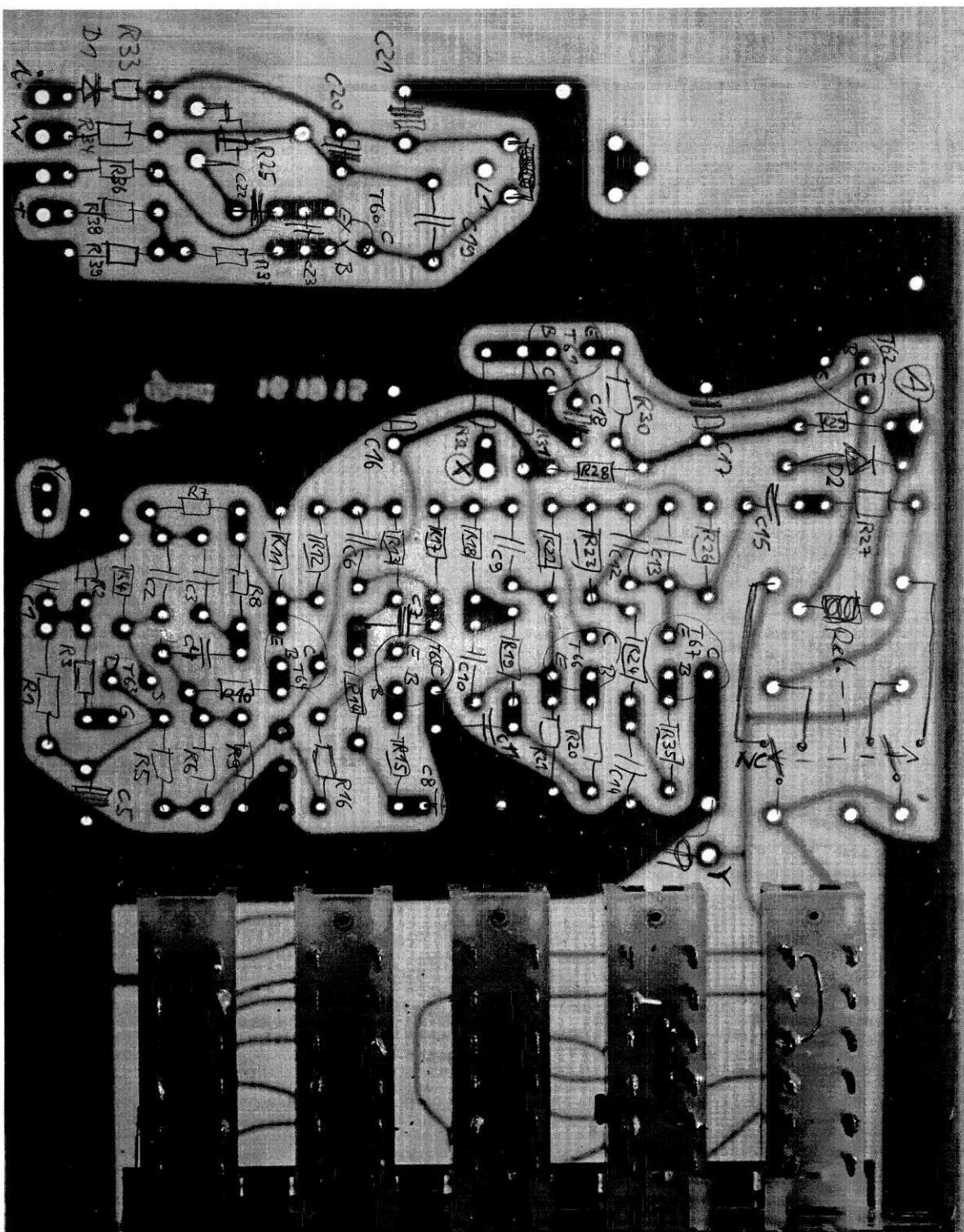
Part 2: <https://youtu.be/5jWjhg2U2VU>

Part 3: <https://youtu.be/stPdhrffxRs>

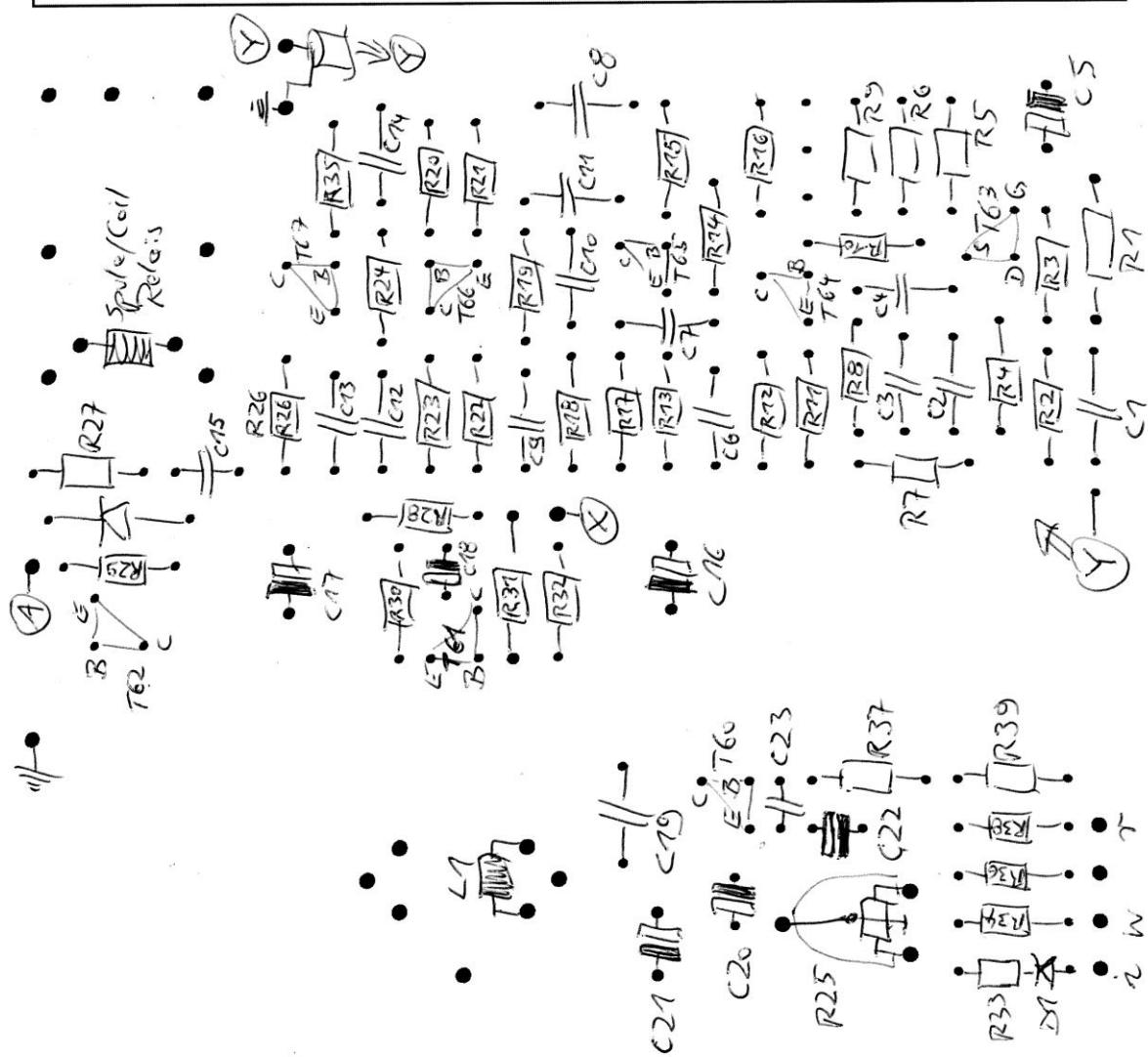
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Pushbutton Switches



R1	3M9			C1	150p		
R2	1M			C2	4n7		
R3	1k			C3	4n7		
R4	4k7			C4	4n7		
R5	1k			C5	22u/25V		
R6	330k			C6	4n7		
R7	47k			C7	4n7		
R8	47k			C8	1n		
R9	390k			C9	4n7		
R10	1k			C10	4n7		
R11	10k			C11	1n		
R12	39k			C12	4n7		
R13	39k			C13	4n7		
R14	39k			C14	1n		
R15	1k			C15	0u1		
R16	5k6			C16	100u/25V		
R17	33k			C17	100u/25V		
R18	33k			C18	0u33/25V		
R19	33k			C19	0u47	Folie	
R20	1k			C20	4u7/25V		
R21	5k6			C21	47u/25V		
R22	33k			C22	4u7/25V		
R23	33k			C23	1n		
R24	33k						
R25	500R	Trimpot		D1	BAY61	1N4007	
R26	5k6			D2	BAY45	1N4007	
R27	10k						
R28	150R			Rel3			
R29	150R						
R30	2k7			L1			
R31	3M9						
R32	47k			T60	BC237B		
R33	270R			T61	BC307B	BC557B	
R34	4k7			T62	BC307B	BC557B	
R35	1k			T63	BF245B		
R36	1k			T64	BC239C	BC237C	
R37	1k			T65	BC307B	BC557B	
R38	120k			T66	BC237B	BC237C	
R39	33k			T67	BC307B	BC557B	

