

Bayou Jumper rev C (Red Panel) Bill of Materials 21 July 2021

Inv√	Quant	Part ID(s)	Description	Marking	Notes
			CAPACITORS		
	1	C31	22 pF NP0 ceramic, 0.1" LS	22J , 22, or 220	Optional - do not install yet
	2	C21,C30	4-20 pF trimmer capacitor	pink body	Note orientation of flat side
	3	C4, C18, C26	100 pf NP0 ceramic, 0.1" LS	101	
	1	C20	120 pF NP0 ceramic, 0.2" LS	121	
	1	C16	220 pF NP0 ceramic, 0.2" LS	221	
	1	C23	390 pF NP0 ceramic, 0.2" LS	391	
	1	C22	470 pF NP0 ceramic, 0.2" LS	471	
	3	C8, C14, C15	0.001 μF 200V NP0 ceramic, 0.2" LS	102	
	1	C28	0.0033 μF NP0 ceramic, 0.1" LS	332	
	4	C1,C2,C11,C17	0.01 μF ceramic, 0.1" LS	103	
	1	C24	0.033 μF ceramic, 0.2" LS	333	
	7	C5,C7,C19,C25, C27,C29,C32	0.1 μF ceramic, 0.1" LS	104	
	1	C34	0.22 μF ceramic, 0.2" LS	224	
	1	C10	1 μF electrolytic, 0.1" LS	1 μF	Note polarity
	4	C3,C6,C9,C13,	4.7 μF electrolytic, 0.1" LS	4.7 μF	Note polarity
	1	C12	47 μF electrolytic, 0.1" LS	47 μF	Note polarity
			DIODES		
	3	D1, D2, D3	1N5819 Schottky diode	1N5819	Note polarity
	1	D4	Red/Green bi-color LED, 5 mm, common cathode, water clear lens		Note polarity, installed under front panel
			CONNECTORS		
	1	J1	BNC jack		Antenna
	1	J2	2.1x5.5 mm coaxial power jack		Power input
	1		2.1x5.5mm coaxial power plug		Mates with J2
	1	J3	1/8" mono jack, metal frame		Key
	1	J4	1/8" stereo jack, plastic housing		Phones
	2	J5, J6	Molex® female pins		Crystal socket
			INDUCTORS		
	1	L1	T68-2 iron powder toroid core	Yellow body	
	1	L2	1.0 μH molded choke	Wide Silver-Brown-Gold-Black-Silver	L2 is the physically larger choke
	1	L4	470 μH molded choke	Wide Silver-Yellow-Violet-Brown-Silver	L4 is the physically smaller choke
			TRANSISTORS		
	2	Q1, Q3	2N3904 NPN BJT, TO-92	2N3904	
	1	Q2	J-310 JFET, TO-92	J-310	
	2	Q4, Q6	IRF-510 MOSFET, TO-220	IRF-510	Static sensitive
	1	Q5	2N7000 MOSFET, TO-92	2N7000	Static sensitive
	1	Q7	TIP-42 PNP BJT, TO-220	TIP-42	

RESISTORS				
1	R16	100 Ω 1/4W 5% resistor	BRN-BLK-BRN	
2	R17, R19	1.0 K 1/4W 5% resistor	BRN-BLK-RED	R19 is installed under the front panel
1	R20	2.2 K 1/4W 5% resistor	RED-RED-RED	R20 is installed under the front panel
1	R3	2.7 K 1/4W 5% resistor	RED-VIO-RED	
2	R7, R12	3.3 K 1/4W 5% resistor	ORG-ORG-RED	
1	R5	33 K 1/4W 5% resistor	ORG-ORG-ORG	
1	R15	100 K 1/4W 5% resistor	BRN-BLK-YEL	
1	R13	330 K 1/4W 5% resistor	ORG-ORG-YEL	
4	R9,R11,R14,R18	470 K 1/4W 5% resistor	YEL-VIO-YEL	
2	R2, R4	1.0 M 1/4W 5% resistor	BRN-BLK-GRN	
POTENTIOMETERS				
1	R1	5.0 K potentiometer	B5 02	
3	R6, R8, R10	50 K potentiometer	B5 03	
SWITCH				
1	SW1	4-pole 3-position rotary switch		
INTEGRATED CIRCUITS				
1	U1	NJM2113 audio amp DIP-8	NJM2113	Use supplied socket
1	U2	78L06 voltage regulator TO-92	78L06	
CRYSTALS				
1	X1	7030 kHz quartz crystal HC-49	7030	
1	X2	7122 kHz quartz crystal HC-49	7122	
2		Crystal Adapter PC board	Cajun Crystals	
OTHER HARDWARE				
1		Front panel PC board	Rev C	red solder mask
1		Main PC board	Rev C	green solder mask
2		Nylon screw insulator/bushing		Use with J5 & J6
1		“chicken head” pointer knob, will require an Allen wrench, 1.5 mm		OFF-Rx-Tx switch
3		Small control knob		VOLUME, REGEN, ATTEN controls
1		Large dial knob		Main tuning
4		2” long x 3/8” square wood post		For box mounting
15		3/8” #6-32 machine screw		For standoffs
6		5/8” #6-32 F-F hex standoff		Board-to-board
1		1/2” #6-32 M-F hex standoff		For xtal test post
1		3/16” #6-32 machine screw		For xtal test post
1		3/8” #6-32 F-F hex standoff		For CW key
1		Key knob		For CW key
4		#6-32 hex nuts		For CW key
1		PCB ”leaf spring” lever		For CW key
4		#6 flat washers		For CW key
1		3/8” #8-32 BRASS screw		For CW key
4		#6-32 sheet metal screws		joins panel to box
1		#4-40 x 1/2” machine screw		For Q7 mounting
1		#4-40 nut		For Q7 mounting

	6 ft		AWG #24 enameled magnet wire		For toroid L1
	9 in		AWG #22 tinned bus wire		For jacks and jumpers
	6 in		AWG #10 bare copper wire		For crystal pins
	3 in		RED/BLACK insulated wire		For power jack
	12 in		“Dupont” female-female jumper wire		LED connections
	5	TP1, V-reg, GRN/RxVcc, RED	Header pins, 1 conductor		1 spare supplied
	1		DIP socket 8 pin		Socket for U1
			Optional parts (Not supplied with kit) for modifications		See manual appendices
		R5a	TBD, could be potentiometer		
		C33	TBD, approx. 560 pF		
		R21	TBD – optional component		
		Filter switch	SPST miniature toggle		For Soup’er Up’er
		Fine Tuning	1K potentiometer Bourns series PV09, 25 mm shaft, center detent Bourns PTV09A-4225F-B102		For Soup’er Up’er Same physical size & type as R1
		C20a	10 pF NP0 ceramic, 0.2” LS	10	In case needed to move tuning range lower