

## Bayou Jumper rev A Bill of Materials (19 April 2017)

Inv√	Quant	Part ID(s)	Description	Marking	Notes
			<b>CAPACITORS</b>		
	1	C20a	10 pF NP0 ceramic	10	Do not install yet
	1	C31	22 pF NP0 ceramic	22	Do not install yet
	2	C21,C30	4-20 pF trimmer capacitor	pink body	
	3	C4, C18,C26	100 pf NP0 ceramic	101	
	1	C20	120 pF NP0 ceramic	121	
	1	C16	220 pF NP0 ceramic	221	
	1	C23	390 pF NP0 ceramic	391	
	1	C22	470 pF NP0 ceramic	471	
	3	C8,C14,C15	0.001 μF 200V NP0 ceramic	102	
	1	C28	0.0033 μF NP0 ceramic	332	
	4	C1,C2,C11,C17	0.01 μF ceramic	103	
	1	C24	0.033 μF ceramic	333	
	7	C5,C7,C19,C25,C27, C29,C32	0.1 μF ceramic	104	
	1	C10	1 μF electrolytic	1 μF	
	4	C3,C6,C9,C13,	4.7 μF electrolytic	4.7 μF	
	1	C12	47 μF electrolytic	47 μF	
			<b>DIODES</b>		
	3	D1,D2,D3	1N5819 Schottky diode	1N5819	
			<b>CONNECTORS</b>		
	1	J1	BNC jack - antenna		
	1	J2	2.1x5.5 mm coaxial power jack		
	2	J3,J4	1/8" stereo phone jack		
	2	J5,J6	Molex® pins – crystal socket		
			<b>INDUCTORS</b>		
	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
			<b>TRANSISTORS</b>		
	2	Q1,Q3	2N3904 BJT transistor TO-92	2N3904	
	1	Q2	MPF-102 JFET transistor TO-92	MPF-102	
	2	Q4,Q6	IRF-510 MOSFET TO-220	IRF-510	Static sensitive
	1	Q5	2N7000 MOSFET TO-92	2N7000	Static sensitive
			<b>RESISTORS</b>		
	1	R16	100 Ω 1/4W 5% resistor	BRN-BLK-BRN	
	1	R17	1.0 K 1/4W 5% resistor	BRN-BLK-RED	
	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	R18 marked 1M on PCB
	2	R2,R4,	1.0 M 1/4W 5% resistor	BRN-BLK-GRN	

			<b>POTENTIOMETERS</b>		
1	R1		5.0 K potentiometer	502	
3	R6,R8,R10		50 K potentiometer	503	
			<b>SWITCH</b>		
1	SW1		4-pole 3-position rotary switch		
			<b>INTEGRATED CIRCUITS</b>		
1	U1		NJM2113 audio amp DIP-8	NJM2113	OK to use socket (not supplied in kit)
1	U2		78L06 voltage regulator TO-92	78L06	
			<b>CRYSTALS</b>		
1	X1		7030 kHz quartz crystal HC-49	7030	
1	X2		7122 kHz quartz crystal HC-49	7122	
			<b>OTHER HARDWARE</b>		
1			Front panel PC board	Rev A	green
1			Main PC board	Rev A	green
2			Crystal Adapter PC board	Cajun Crystals	
2			Nylon screw insulator/bushing		Use with J4 & J5
1			2.1x5.5mm coaxial power plug		Mates with J2
1			“chicken head” pointer knob		OFF-Rx-Tx switch
3			Small control knob		
1			Large dial knob		Main tuning
4			2” long x 3/8” square wood post		
15			3/8” #6-32 machine screw		
6			5/8” #6-32 F-F hex standoff		
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
6 ft			AWG #24 enameled wire		For toroid L1
6 in			AWG #22 tinned bus wire		
6 in			AWG #10 bare copper wire		For crystal pins
3 in			RED/BLACK insulated wire		
3	TP1, V-reg, Rx-Vcc		Header pins, 1 conductor		
			<b>Optional (Not supplied with kit) parts for modifications</b>		<b>See manual appendices</b>
	R5a		TBD, could be potentiometer		
	C33		TBD, approx. 560 pF		
	Filter switch		SPST miniature toggle		
	Fine Tuning		1K potentiometer		Same type as R1