

Bayou Jumper rev B Bill of Materials (15 October 2020)

| Inv√ | Quant | Part ID(s) | Description | Marking | Notes |
|------|-------|-------------------------------|---|--|--|
| | | | CAPACITORS | | |
| | 1 | C20a | 10 pF NP0 ceramic, 0.2" LS | 10 | Optional – not supplied in kit |
| | 1 | C31 | 22 pF NP0 ceramic, 0.1" LS | 22 | Optional - do not install yet |
| | 2 | C21,C30 | 4-20 pF trimmer capacitor | pink body | Note orientation |
| | 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 | 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 | | |
| | 2 | J3,J4 | 1/8" stereo phone jack | | |
| | 2 | J5,J6 | Molex® 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 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 |

| 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 | | R20 installed under front panel |
| 1 | R20 | 2.2 K 1/4W 5% resistor | RED-RED-RED | | installed under 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 | 502 | | |
| 3 | R6,R8,R10 | 50 K potentiometer | 503 | | |
| 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 | | |
| OTHER HARDWARE | | | | | |
| 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 J5 & J6 |
| 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 | | |
| | 1 | | DIP socket 8 pin | | Socket for U1 |
| | | | Optional (Not supplied with kit) parts for modifications | | See manual appendices |
| | | R5a | TBD, could be potentiometer | | |
| | | C33 | TBD, approx. 560 pF | | |
| | | 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 |