

COURIER GALAXY V AND VI, 80 CH MOD

a.01ufintoC136

b.0047ufintoC137

c.0047ufintoC138

d.(2)2ufintoC134

STEP3:1N914INTOD82

STEP4:2SC945intoTR33

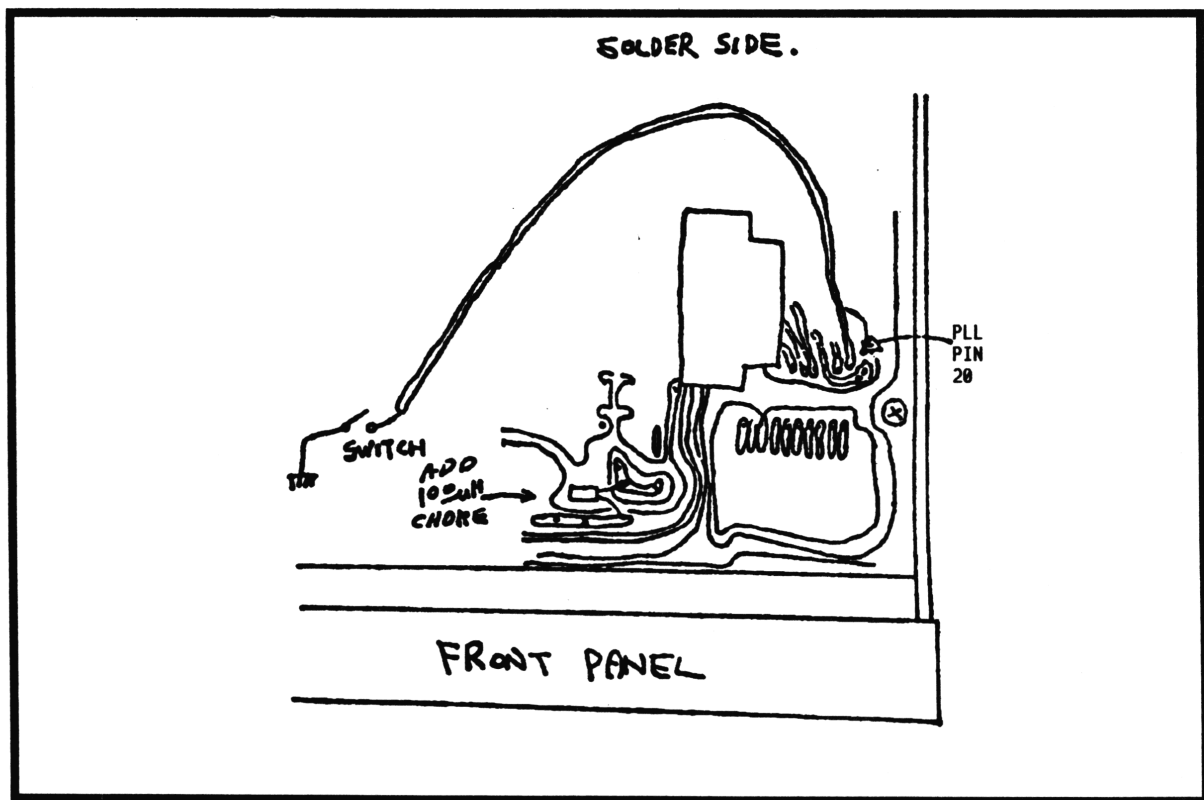
After you put all the parts in, solder a wire from J9 on the board to a 5 volt supply. add a switch in line with the wire, to make the peep switchable.

COURIER GALAXY V AND VI, 80 CH MOD

PLUS HALF CHANNEL MODIFICATION AND 10 KHZ SLIDER

• BRONCO CB

This modification consist in isolating pin 20 of the PLL IC chip LC-7131 from the circuit and connecting a SPST switch from pin 20 to ground. This switch can be one of the existing switches located in the front panel (like TONE, HI -LO) or a separated switch mounted on the side of the unit. With the switch in the close circuit position, normal 'CB' operation and with the switch in the open circuit position, the unit will operate from 27.420 MHz.



FIGURE# 10.....GALAXY V&VI 80 CH MOD

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(1) Cut the "PCB" copper patten trace around PLL IC LC-7131 pin 20, isolating pin from the rest of the circuit.

(2) Connect a SPST switch from PLL IC LC-7131 pin 20 to ground. The switch can be mounted on the side of the unit next to the PLL IC LC-7131(1)

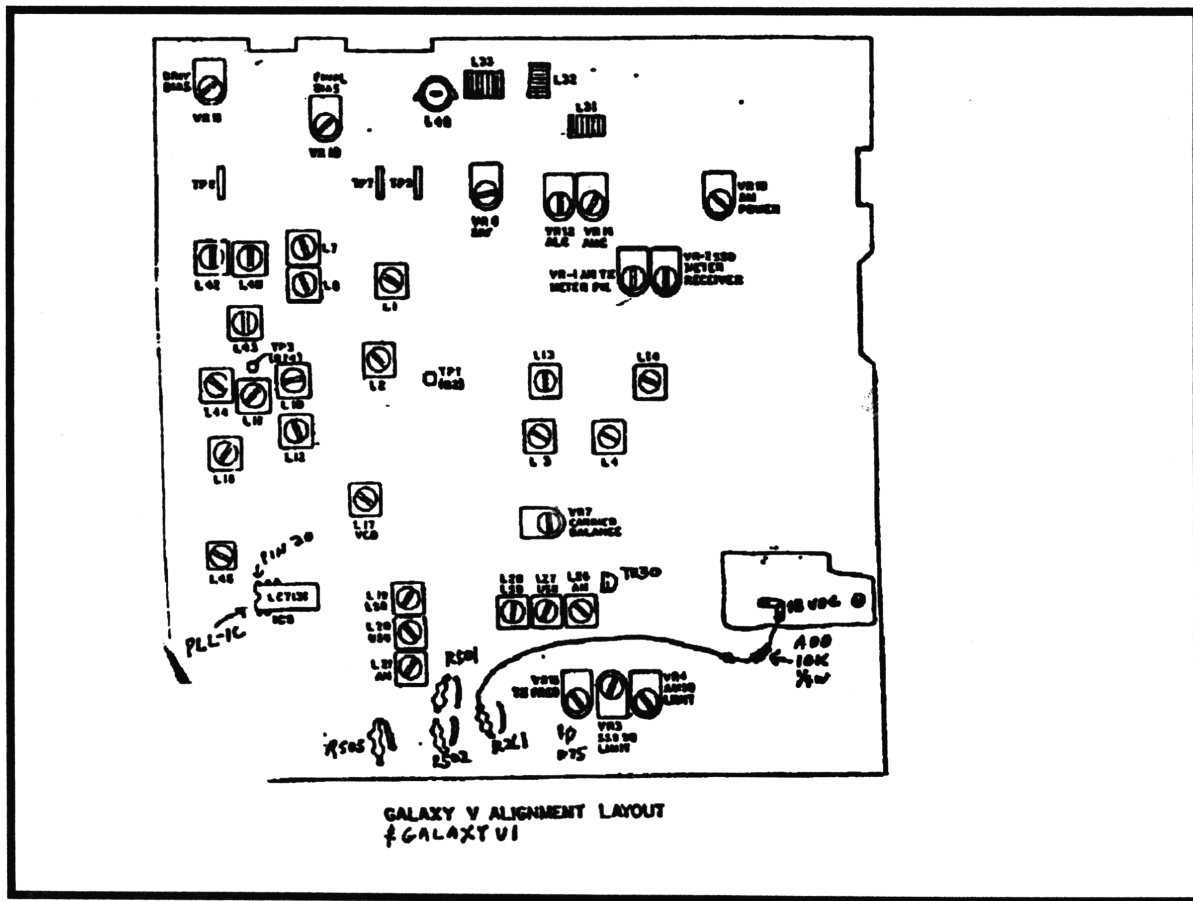
(3) Check the operation of the unit of all channels. Check the transmitter power output on ALL BANDS, adjust coils L44, L43, L42, and L40 if necessary.

THE 80 CHANNELS MODIFICATION IS COMPLETED.

CLARIFIER MODIFICATION FOR "10KHz" SLIDER

(1) Cut top lead of resistors R501, R502, AND D75. (Located in the PCB near the front panel and next to coil L21).

(2) Cut top lead of resistor R261 and solder a 4 inches long wire to the free end of the resistor R261, solder a 10 K (10,000 ohms) to the free end of the wire, then solder the free end fo the resistor to the 8 VDC PCB connection, located in the microphone preamplifier board attached to the side panel. (The 10K resistor is in series with the wire).



FIGURE# 11.....10KHZ SLIDER

120 CHANNEL MODIFICATION FOR THE COURIER GALAXY V AND VI

(3) Solder a 100 microhenry choke across resistor R505 located next to the 10.24 MHz crystal.

THE CLARIFIER MODIFICATION IS COMPLETED

120 CHANNEL MODIFICATION FOR THE COURIER GALAXY V AND VI

• BRONCO CB

(1) This modification consist in mixing the 16 MHz "VCO" output with a 20 MHz crystal oscillator to obtain a new 37-38 Mhz receiver first conversion and transmitter mixer frequency.

(2) The "VCO" output line is open and the new mixer circuit is placed in series with the VCO output, converting the 16Mhz VCO output to the new 37-38 MHz frequency.

(3) Mount the modification PC BOARD switch on the side chassis close to the PLL CHIP.

(4) Locate the four holes, PCB connections between coils L18 and L44. Remove jumper wire connected from hole "B" to hole "D".

(5) Connect and solder the four wires from the modification board to the four pcb holes as follows:

A-RED WIRE TO HOLE "A"; B-BLUE WIRE TO HOLE "B"; C-BLACK WIRE TO HOLE "C"; D-YELLOW WIRE TO HOLE "D"

(6) Remove coils L29 and L30 located in front of coils L27 and L28 connect coil L30 from pin "A" to pin "D" and coil L29 from pins "c" to "D" and coil L29 from pins "C" to "B". (see drawing)

FREQUENCY COUNTER MODIFICATION FOR GALAXY VI ONLY.

(7) Locate the shielded wire coming from the frequency counter module and connected to the main PCB, next to coil L46.

(8) Cut the PCB copper pattern trace connected to point "B" of the two pins "PCB" connector (This is connected to the center conductor of the shielded) and connect a jumper wire from the two pin connector hole "B" to hole "D" of the four hole "PCB" connections. (see drawing)

Locate the 4 pins connector, connected to the frequency counter module and reverse the "RED" and "WHITE" wires. If the "TRUE" USB or LSB is desired on