

HOW TO MAKE YOUR COBRA 142GTL CLARIFIER SLIDE

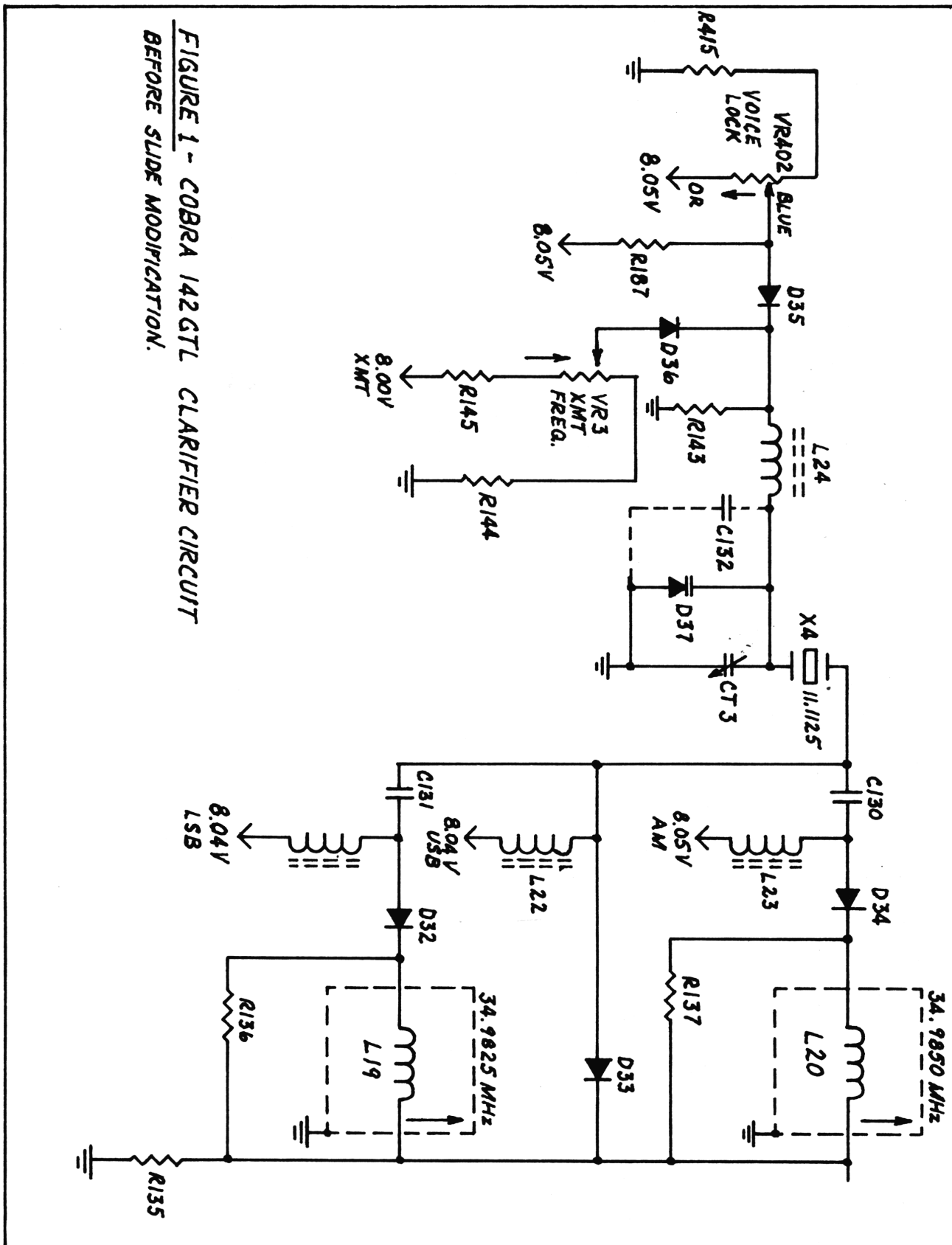
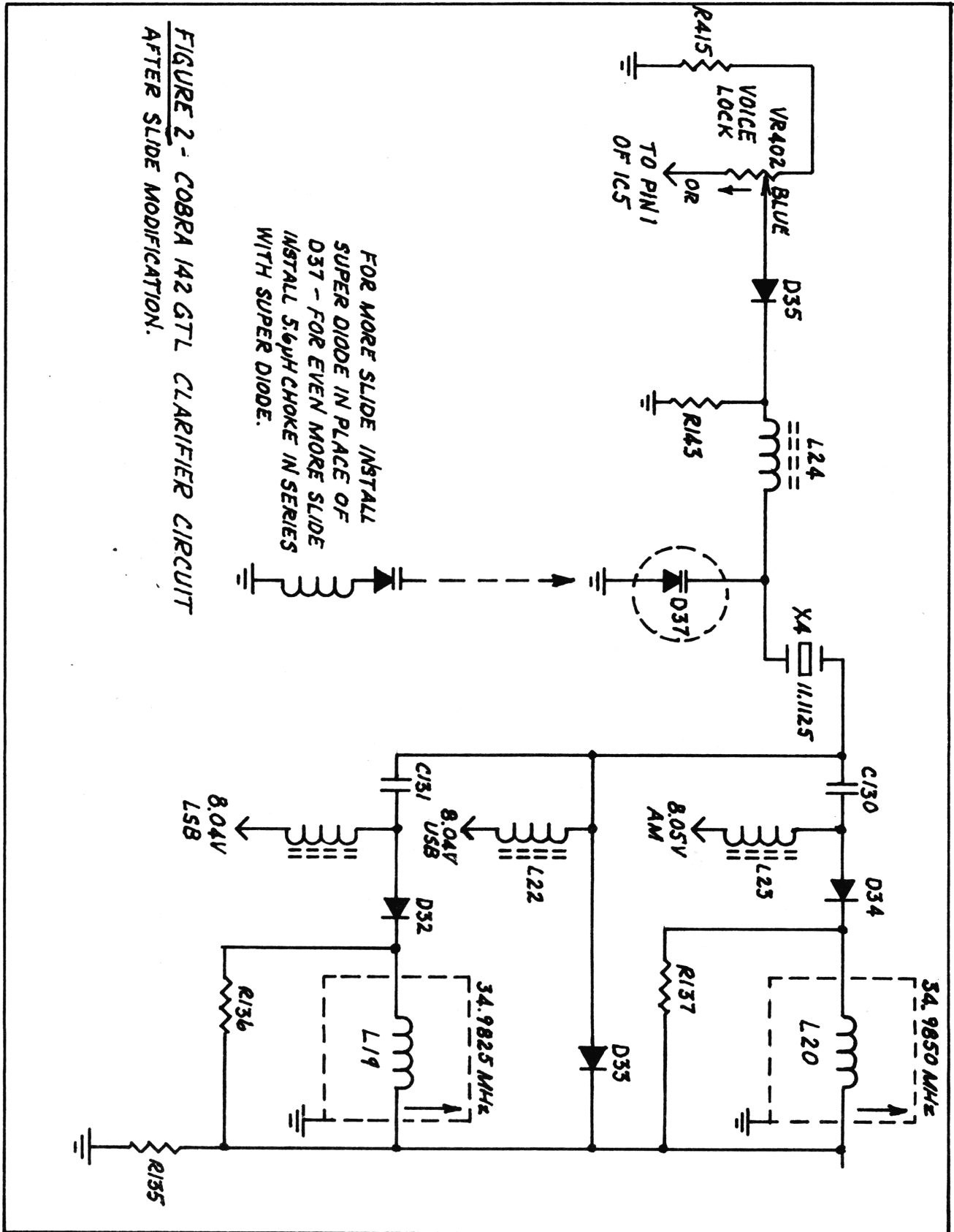


FIGURE 1 - COBRA 142GTL CLARIFIER CIRCUIT BEFORE SLIDE MODIFICATION.



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Our first objective is to eliminate the transmit control voltage which is fed through VR3 (the transmit frequency adjust) to D36 and to the varactor D37. This is done by clipping out D36.

Next, we need to feed a steady voltage to the clarifier at point A. We can get a constant 8V source from pin 1 of IC5. So, cut off the orange wire going to the clarifier and run a new wire from there to IC5. (See Drawing 2) Also, clip R187.

↳ TO OPEN HOLE NEXT TO R136 & L19

To increase the slide, remove any parallel capacitance to D37. In this circuit we will remove C132 and CT3. Also, D37 can be replaced with a super diode, or a 5.6uH choke can be added in series with D37 for more slide. (Anode of D37 to choke to ground: See Drawing 2)

This oscillator circuit is common to receive and transmit. As we turn the VOICE LOCK, the voltage to the varactor changes. This causes the capacitance of D37 which is in series with X4 to change, thereby shifting frequency. Any change in voltage gives a corresponding change in frequency. This is why our 8V source must be very stable on receive and transmit. This circuit works in a tripler so the change is also tripled.

The Best way is to change 11.1125 with 11.3258 uniden small crystal. Ground the Red/wht wire on the clarifier AND change D37 TO A super slide diode. end result is +4Kc/-4Kc

