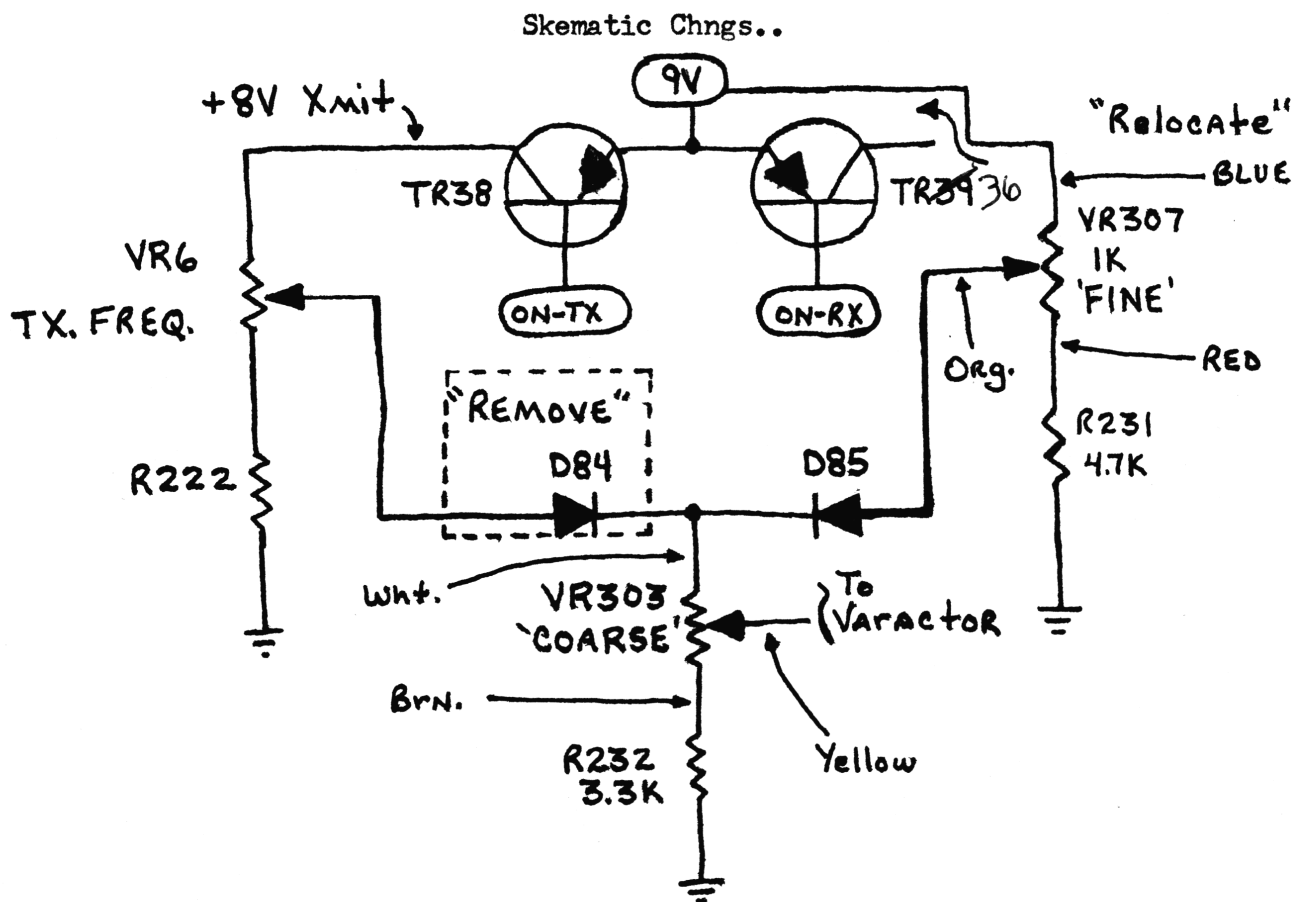


148GTL-DX (EARLY) LATE

This is a 'Proven' modification for the Clarifier and alignment for improving the SSB use.. As you probably are aware of, this unit uses a two-part clarifier-but only the COARSE section is unlocked as designed. Because of the detent on the COARSE potentiometer, synchronizing the RX and TX frequencies is usually very difficult.. The following 'mod.', and alignment solves all the problems: D.S.

This Sucks Too

1. Remove D84.
2. Move Blue wire at top end of VR307 (FINE) from TR36 Collector to TR36 Emitter.



"FOLLOW ALIGNMENT ON NEXT PAGE - EXACTLY AS WRITTEN!"

148GTL-DX (~~EARLY~~) GATE

3. Realign as follows:

- A. Select CH. 39, MID band.
- B. Monitor TP3 with frequency counter.
- C. Adjust L21 for 16.700000MHz, AM Mode
- D. Adjust L22 for 16.702500MHz, USB Mode
- E. Adjust L23 for 16.697500MHz, LSB Mode
- F. Adjust L17 for maximum RF at TP4 (Rec).
- G. Adjust L19 for maximum RF at TP3 (Rec).
- H. On CH. 40, adjust L18 for 2.5VDC at TP2.
- I. Adjust L52, L53, and L55 for max power output; Xmt on CH. 40, AM.
- J. Adjust VR7 to null carrier on LSB Xmit.
- K. Adjust VR8 for correct output power reading on TX PWR MTR.
- L. Adjust VR13 for 6 watt output power (AM).
- M. Adjust the following in Receive for max S-meter reading:
L7, L8, L9, L11, L12, L13, L14, L15...
- N. With 100 microvolt input adjust the following:
VR2 for S9 reading in AM Mode.
VR1 for S9 reading in SSB Mode.

MIDLAND 151M (77-151) LC7131 PLL

See drawing below for adjusts - No VR #'s on PCB.....
View is from front of unit...(Need a skem. for our files!)

