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This is 858 SSB Chassis Trouble-Shooting Chart
Use in correllation with appropriate SAMS, Reference Radio Shack: TRC-449
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General: Unit will not turn on: Broken Power cable, Fuse Blown (Check cause), Bad Power Switch, wiring to power supply ckts.

No RX: Defective RF ckt, Noise Blanker, AGC, PLL ckts, Also Ant. Conn. No Sound: RX Power, RX Audio, PLL ckts. Channel Switch, PA/CB switch, Ext. Sp. jack, and SQ ckts.

No TX: Microphone, Relay, Power supply ckts., PLL ckts, Mike Amp/Bal. Mod. ckts, TX Amp.

No Mod: Mike/connector, TR20 or IC4 (AM Mode), Mike amplifier.

Amplification:

- No Rx Sound: 1. Check for short ckt or broken wire in output Xfmr (T1) also cold solder joints on PCB. Pri-0.2 ohm, Sec.-0.5 ohm.
 - 2. Audio Chip-IC4, Pin 10 should be approx 7VDC.
 - 3. Squelch always on: TR12, TR13, TR14, TR21, also check for cold solder on Sq cntrl ground.
 - 4. Sig. Mtr deflects: D10, D11, D12, TR15.
 - No Audio even in SSB mode: FET-1, TR9, TR8, TR6, TR5, TR4.
- No TX-AM: 1. TR43, TR44, TR25, TR26, TR27, TR28, FET6, FET7, D7, D35 and related circuits.
- No TX-SSB: 1. If AM TX and Modulation O.K., TR6, IC2, TR16, FET7 and related circuits.
- No AM Modulation: Signal flow is IC3, D22, D21, TR20, TR22, IC4; also check TR18, TR19.
- No Noise Blanker Operation: Mis-alignment of L1 and L2, TR1, TR2, TR3. No LED Channel indicator Lights: TR36, TR37, if unit has sockets to these check also for corrosion build-up.

PLL Chip Trouble-shooting:

Should be RF at TP8; if not-check for 9.2VDC approx at Pin 1 IC5; if so IC5 bad, L17 open, poor soldering. No voltage D44 bad, L16 open, soldering again.

TP7; if not.....

- Should be 2.2VDC at......1. Check for 0.5V P-P RF at TP6; if not ck TR40, 124, TR34, TR38, TR39, X3, X4, X6, selector switch, and poor soldering.
 - 2. If RF present, ck Pin 5/6 IC7 for 10KHz Sawtooth waveshape. If not there, Ck for 5VDC Pin 2 IC6, X5, IC7, poor soldering, also 5VDC P/S line.
 - 3. Ck Pin 13-21 IC7, logic per truth table vs selector. If not, ck at switch and cable, for bad sw or cable.
 - 4. Ck Pin 11 IC7 for readable MHz signal, also at base TR30. If not, Ck FET4, 119, TR30, TR31, TR35, defective soldering pins 2, 3, 4 of IC7.

TP7, Check that the Ch....-Recheck Step 3 above, double check the cable Fo matches truth table;.... contact with socket... if not.....

TP7, Ch. 1 on selector; Realign L-17... Check for 2VDC, if not.....

IF AFTER ALL ABOVE CAN'T GET PLL TO WORK CORRECTLY! - BAD CHIP!