

.....This is the 02A 2-Board SSB chassis Trouble-shooting Chart.....
Use in correllation with appropriate SAMS, Reference GE: 3-5875A

NOTE: No attempt has been made to cover all eventualities. However, known trouble areas have been included to reinforce standard troubleshooting techniques.	
Dead unit (CB)	Blown DC input fuses, F & F1. 13.8 volt DC supply line open, S9 On/Off switch defective; D24 shorted; CH or L8 open.
No sound from speaker - external speaker works normally	External speaker jack (J4) open or defective. Open or defective speaker.
No sound in Receive mode: no modulation in Transmit mode.	Check voltage for proper operation of IC2 (AF Amp) and Q13 (AF Amp). Using a scope check for presence of audio input at pin 6. Check for audio output at pin 10. IC2 is used as a Power Amp in AM, a Mic Amp in SSB.
No modulation in Transmit; Sound normal in Receive mode.	AM: Defective microphone. Check for proper operating voltages of Q13, Q19, Q18, Q20. SSB: Defective microphone. Check for proper operating voltages of Q13, Q20. Check IC1 for proper operation with SPEECH COMPRESSOR on.
No sound in Receive mode, modulation normal in Transmit mode.	Check VR2 volume control for open or intermittent wiper contacts. Check squelch circuit Q15, Q16 & Q17 and associated components.
Squelch control will not squelch background noise.	AM: Improper adjustment of trim pot. RV7 (check Alignment Instructions for proper adjustment). Q15, Q16, Q17 defective. SSB: Improper adjustment of trim pots. RV7 or RV8 (check Alignment Instructions for proper adjustments). Q15, Q16, Q17 defective. Note: Squelch circuits receive signal from AGC line.
RF/IF section of Receiver dead.	Check for proper voltage on Q209 & Q210. Using frequency counter, check output of T203, if no output check PLL circuits.
AM IF section of Receiver dead.	Using frequency counter, check for output from Q202. Check Q5, Q6, Q8 & Q9 for proper operating voltages.
SSB IF section of Receiver dead.	Check for proper operating voltages of Q7, Q8, Q9 & Q10. Using a frequency counter, check for output of TP5.
Receiver off frequency.	Check synthesizer alignment. Check for proper operation of clarifier VR3. Check D204 and D205.
No RF output from transmitter.	AM: Check D202, Q206, Q207, Q208 and Q20 for proper voltages. SSB: Check IC202, IC1, Q206, Q207, & Q208 for proper voltages. Check for proper adjustment of RV201 (See Alignment Instructions).
Weak RF output from transmitter.	Check transmitter alignment; operating of transmitter stages IC202, Q206, Q207, Q208 and associated output components.
High VSWR reading, (AWI indicator lights).	Check antenna connections, must be clean and tight. Check coax cable for open, shorts, or weather deterioration. Note: AWI not used in SSB mode.
Transmitter off frequency.	Check D204 & D205 for open. Check synthesizer and transmitter alignment. (See Alignment for proper adjustment).
Can not transmit or intermittent transmit.	Check microphone for intermittent or open leads.
Transmit modulation distorted.	AM: Check Q13 & Q20 operating voltages, RV9 adjustment. (See Alignment Instructions). SSB: Check Q13, Q20, Q18 & Q19 operating voltages.
Noise blanker does not operate	Check for proper voltages on Q211, Q212, & Q213. Check for defective switch S3.
Incorrect S/RF meter reading.	Check Alignment Instructions for correct adjustment of RV5 & RV203 (AM) and RV4 (SSB). Check for defective meter rectifiers D8, D9 & D227.
PA function not operating.	Check S7, Jack (J3) and PA speaker.
Clarifier inoperative	Check VR3 for intermittent or open wiper contacts. Check for open D204 or R221.
Set works in DC but not AC	Check Q1, Q2, and Q501 for proper voltages. Check for proper adjustment of RV1 (See Alignment Instructions).