This is MB8734/MB8719 PLL SSB Chassis Trouble-Shooting Chart
Use in correllation with appropriate SAMS, Reference: Radio Shack TRC-450

General: Unit will not turn on: Broken power cable, blown fuse (check cause), bad pwr sw., defective wires/poor soldering.
No Rx: Defective-RF, Noise Blanker, AGC, PLL ckts. Ant. conn.
No Audio: Bad-mike/conn., Rx pwr source, Rx audio ckt., PLL ckt., Ch. Sel. sw., Sq. ckt., PA/CB/MON sw., Ext/Both/Int sw., Ext Spkr jack.
No Tx: Bad-mike/conn., Ant. conn., Tx power source, PLL/Carrier Osc ckts (bad or out of alignment), mike amp/bal. mod in SSB mode, Tx Amp-(between mixer and final stage).
No Modu: Bad mike/conn., TR20, IC4, mike amp.

Amplification:
No Rx Sound: 1. IC4 pin 9 should be 6VDC approx.
2. Sq. always on-TR14, TR15.
3. Meter deflects - thru IF stages O.K.
No AM-D21, D22, D24, TR13, VR403, TR36, IC4
No SSB, AM-O.K.; ck Fϕ and level TP3-none, ck Xtals, TR22, TR21, TR20.
No SSB-check Detector, TR13; AF stage, VR403, TR36, IC4.
4. Meter doesn't deflect-TR9, TR10, TR17, TR18, TR42, TR16, FET1, TR8, D13, D14. Check TP1 Fϕ for possible PLL being bad.
Noise Blanker In-op: TR1 thru TR8, D1, D2; mis-alignment L1 and L2.
Ch. LED doesn't light: Bad LED segment or contact, all segments TR23.
No Tx: Ck IC5-13.8VDC on Rx, 0VDC on Tx; if not TR37, mike/conn.
Ck IC5-8VDC on Tx; if not Tx B+ line shorted or bad IC.
Ck Fϕ at TP3 for carrier oscillation; if not ck TR22, TR21, TR20, D26 thru D31, X1 and X2.
Carrier OK, No Tx; ck Fϕ at TP1 against Fϕ Table. If not the same PLL Ckt defective. OK-ck IC3, IC6, TR38, TR39, and TR41.
No Tx-SSB mode and no mod. AM mode; Mike amp, ALC/AMC ckts bad, ck TR31, TR33, TR29, TR28.

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PLL Chip Trouble-shooting:
Should be RF at TP1; if not—check IC1 Pin 1 for 8VDC, if there ck IC2, L13 open/poor soldering. If not, ck IC5, L16 open/poor soldering.
Should be 2-5VDC at TP1; if not—1. TP10 should be 1-2V P/P RF, if not-ck emitter TR24 for 11.3258MHz (Fϕ depends on Xtal in unit) if there ck for bad TR23, TR14, L18 or poor soldering. If not ck for bad Xtal, Sw. Ckts, TR24.
2. If 1-2V P/P RF at TP10, ck Pins 11-16 of IC2 program logic. If not ck the Ch. Sw./cable-Program OK-then chip bad.
Check each Ch's Fϕ at TP1 per Logic Chart: If good, check TP9 for 3.5VDC when Ch. Selector at Ch. 40. If not readjust L13...If this all checks out then PLL Chip is GOOD...