

HINTS/KINKS/GOOFS

EXCALIBUR SSB (MCL45106PLL): AM TX; no adjustment on RF power as was going full blast. Found TR51 Shorted E-B. Replaced 2SA1012 with 2N6124. (Special Note: Replaced with this as was only type I had on hand, Cross-Reference called out ECG-153, 7A/50W.) The 2N6124 is 10A/50W cross-referenced to ECG-378.

L33; busted slug? NOTE... There is no hole in bottom of coil form to get at from the other end if you remove. Will have to pick it out piece by piece - CAREFULLY..

Hygain 671B: Low TX modulation, Low/Intermittent RX audio... Found C81 bad.

Ham International UK 120FM: If having problem getting enough drive in AM; remove VR12 and VR13.

BEWARE of PCB being bowed across back of chassis! Will readily crack, 10 of 12 units checked had a bowed boards, and hairline cracks.

Superstar 3900 (High Band) S/N: 201909 reference. Vol. 22, pg 40 ANL/NB conversion. Have found some units that are being built with Green wire instead of Red.

858 SSB chassis: Problem - squeal for about 1/2 sec when keying up, then would disappear? Turned out to be L37 - ? It went away with a slight adjustment - RCH.

RCA 14T305..02A-PLL: Be careful when modifying, mod is the same - but traces on the PCB are different...

TECH TIP: COBRA GTL and LTD AM Mobiles. Symptom-No Transmit but Final, Driver, and Buffer transistors are good. RF probe or Scope shows signal on Buffer and Driver (Base) but little or no signal on Driver (Collector) and Final transistors. Troubleshooting: check DC voltage on pin 9 of the TA7310P transmit mixer IC. DC xmit voltage should be around 8 to 9 volts. Problem: voltage of zero caused by shorted bypass electrolytic capacitor (33 ufd 10V or similar) on the supply line between the power supply feed thru resistor and the 27 Mhz RF output can primary coil supplying power to the Xmit mixer IC. The feed-thru resistor may be between 33 and 560 ohms. The bad electrolytic capacitor may not be on the schematic but is in the radio. Solution: replace the bad capacitor with any value between 10 and 50 ufd at 15 to 50 volt rating.