SPECIFIC TUNE-UPS

Hygain IV Mdl. 673, Base: RV103-AMC, RV101-Sq Rng, RV104-Tx Mtr, RV102-Rx Mtr.
Tune L-111, L-109, L-108 for max RF forward output. (*)

Kraco KB2345, Base: RV2-AMC, RV1-Sq Rng, RV3-Rx Mtr, RV4-Tx Mtr.
Tune L-7, L-8, L-9 for max RF forward output: 12W final push it! (*)

(*) Xtals for extra Fo's - Vol. 1; Low Fo conversion Vol. 11, pg. 36; Xtal switching Vol. 15, pg. 64. --both units...

G.E. 3-5813B PLL02A: RV1-Sq Rng; RV2-AMC (Don't defeat); RV3-Rx Mtr; RV4-Tx Mtr; RV501-AWI adjust. Tune L12, L11, and L7 for max forward. 12W Final, change insulator to mica type.

LAFAYETTE OWNERS

As most of you know by now Lafayette is no longer in the C.B. business. But....have found the source for parts, manuals, service...(U.S. MODELS ONLY)

Terryville Electronics, Inc.; 693 Old Town Road; Terryville, New York 11776
Ph. No. 516-473-0192 ..... Re: Ellen at TEI.

COLT OWNERS

People have been writing to find the source of parts for Colts: Had a time finding it, but was pleasantly surprised! CO-OPERATION in capitol letters! (U.S. MODELS ONLY)

Cibcoa; 625 Academy Drive; Northbrook, Illinois 60062-2472
.... Re: John Malloy...(Suggest you write as are also a **LARGE** electronics wholesale ONLY distributor) Mark letter ATTN: John Malloy...

SBE OWNERS

All I received was a change of address, no particulars!

SBE, Inc.; 4700 San Pablo Ave.; Emeryville, Calif. 94608 Ph. No. 415-652-1805

PALOMAR OWNERS

All I received was address, no particulars!

Palomar Electronics Repair Service; 1320 Grand Ave.; San Marcos, Calif. 92069
Ph. No. 619-744-0720

TROUBLE-SHOOTING TABLES

The following 5 pages are re-written/modified trouble-shooting charts for use by the technician; use in correllation with original schematic if needed. In most cases the chassis are identical.

This is Rec86345 PLL SSB Chassis Trouble-Shooting Chart
Use in correllation with appropriate SAMS, Reference Radio Shack TRC-448.

Acc; will be used instead of; associated circuitry components in text!

NOTE: Check PLL first, with Ch. Sel at CH-19.
Frequency Counter at TP4, ck for following: 1. 34.985MHz, AM-Rx
2. 19.3825MHz, LSB-Rx/Tx
If both frequencies OK, PLL is functional. If not see below..
a. F_o wrong in AM - ck Q5, D6, L2, Q9, X2, Q11, IC1, Acc.
b. F_o wrong in LSB - ck Q4, D5, L1, Q1, T1, Q10, X3, Q11, Acc.
c. Both wrong - ck IC2, X4, Q3, Q4, Q6, Q7, Q8, Q13, Ch. Sel. Sw., Acc.

General Trouble-Shooting
1. Meter lamp out, set dead - ck power cord, Q229, meter lamp, fuse
2. Fuse blows - ck for reversed polarity hook-up, D2104, Q299, D244.
Collector short to chassis-Q204, Q205, Q234, Q235. Acc.
3. Meter lamp out in Rx - ck D229, lamp
4. Meter lamp out in MON/PA - ck D230, lamp
5. Mod. Indicator, no flash in AM - ck Q218, D226, D227, lamp

Receive-Transmit Trouble-Shooting
1. No Rx in SSB; OK in AM-Rx, AM/SSB-Tx: ck Q215, Q216, Q217, Acc
2. No Rx/Tx in SSB; OK in AM-Rx/Tx: ck Q1, Acc
3. No Rx-AM/SSB, No Tx-SSB; OK in AM-Tx: ck XF201, Q207, Q208, T207, T208, Acc.
4. No Rx in both AM/SSB: ck Q223, Q224, Q235, and Acc.
5. No audio; OK in Tx-AM/SSB: ck speaker, Ext. Spkr. Jack, Squelch Control, Relay, Acc.
6. No Tx-AM/SSB: ck Q201, Q202, Q203, Q204, Q205, Relay, D251, Mode Sw., Mike Cable/Plug/Sw., Acc.
7. No Tx-AM; OK in SSB Tx: Q236, D228, Mode Sw., Acc
8. No Tx-SSB; OK in Tx-AM and Rx-AM/SSB: ck IC3, Q15, Q17, Q18, D19, D20, D21, D22, T9, D211, D249, D250, Acc.
9. No function on Squelch control: ck VR209, VR302, VR206, Q230, Q231, Acc
10. Rx oscillates in AM; OK in Rx-SSB: ck D1, Mode Switch, Acc
11. Low sensitivity Rx-SSB; OK in Tx-SSB: ck Q219, Q220, Q221, Q228, Q223, Q224, Q225, Acc
12. No modulation in AM; OK in Rx-AM, Tx-SSB: ck IC3, Q15, Q17, Q18, T216, Acc
13. Rx AGC and SSB ALC inoperative: ck Q214, Acc
14. Noise Blanker/ANL inoperative: ck IC201, Q226, Q228, D236, D237, D238, D239, D216, NB Switch, Acc
15. PA inoperative; CB operation OK: ck PA/CB Sw., PA Jack
16. RF Gain inoperative: ck Q220, D253, VR302, Acc
17. Clarifier inoperative (As is clarifier, not modified!): ck D12, D13, D14, VR304, VR2, Acc

Remember this unit has separate VCO's for AM/USB and LSB...

The above should help out those persons who have been trying to repair the TRC-448's, since the Custom Conversion appeared in Vol. 16..
NOTE: When doing full-blown modification it has been necessary to change D5 and D6 to "Super Diodes" in about 1 of 10 units for full frequency coverage..