SPECIFIC TUNEUPS

New '84 - Realistic TRC-86 (21-1608), 1W/3 Ch. Walkie-Talkie.
Cheap, low-priced walkie-talkie.....Over-priced at $40 retail. Has no I.F. filtering! VR3-Sq. RX Adj: T1, T2, T3, T4, T5, and T6. Adjust TX with antenna fully extended and use field strength meter. TX Adj: T8, T9, T10, I4, L2. (Canadian models: remove wires going to junction C72/Q13-collector, R61, and R62. Only do this if additional modulation is needed.) R45 may be changed to lower value for power increase. 20
** See page 46 for Fo Modification Notes.

New '84 - Realistic TRC-214 (21-1637), 3W/3 Ch. Walkie-Talkie.
Almost, worth the money on this one. Only difference from the other 3 Channel units is the Antenna, Ext. Ant. Jack, Ext. Power Jack, and a different RF Final. This unit does have I.F. Filtering, and is fair. VR3-Sq Rng. RX Adj: T1, T2, T3, T5, T6. Transmit may be adjusted on a dummy load or field strength meter. Suggest dummy load, and doing the final adjustment using the Antenna and field strength meter for T10 and I4. TX Adj: T6, T9, T10, I4. R41 may be changed to lower value for higher power output. If additional modulation is needed remove R60 (15K). ** See page 48 for Fo Modification Notes.

Realistic TRC-208 (21-1651), 5W/6 Ch. Walkie-Talkie.
Transmit: Peak in HIGH PWR, using Scope or Field Strength Meter, the antenna should be fully extended for optimum efficiency. May be peaked on dummy load: T6, L3, L6, I7, and VR5. Adjust VR3 for maximum modulation. Switch to LOW PWR: adjust VR2 for max mod. Mod. defeat is R49 (1K), located to right of audio chip on PCB component side. RX Adj: T3, T4, T1, T2, in this order. VR1-Sq Rng. NOTE: R/S part # for new antenna is A-0292 and some $$$$.... ** See page 48 for Fo Modification Notes.

J.C. Penney 981-6221 (uPD861-PLL, 2-Xtal Chassis).
CAUTION: Square holes in some tuning coils...Use correct tuning tool.
Transmit: Peak - T701, T702, T703, T704, T705; R708 may be changed to a lower value to increase power. Receive: Peak - T101, T102, T201, T202; DON'T TOUCH T104, unless you are familiar with NF adjustment! Change C211 to 3.3Mfd/50VDC electrolytic to improve noise - be careful as will deter audio; might have to start with a lower value.
RTL-S Mtr; RT2-RF Mtr; RT101-RF Mixer Gain; RT102-TX Fo Adjustment.
Modulation increase may be achieved by removing D502 and/or Q502 also. Overall performance of unit - fair.

CORRECTION: Vol. 19, Pg. 34.
GRANT-DX, UPPER Fo MOD.
CHANGE: Pin number from 8 to 9, see correct drawing below.

PLL chip, Pin 11
PLL chip, Pin 9