

EXPORT TUNEUPS

PACIFIC 800 SSB: (Worked from schematic on this one - SEE Vol 18 also!) CHANGE FINAL-to 2SC1307, check insulators on Driver/Final and change if needed. Owner's Manual on this unit is good; and schematic for unit comes with it! Plenty of switches to play with also on the front panel; as this chip is modifiable; (Programming Pins for this chip: 9 through 17). Rx Tune: 8T1, 8M1, 8M2, 8M3, 8M4, 8T4...Tx Tune: 8M9, 8M11, 121, 129. The adjustments inside unit (12 of them)? Fact: VR1-Rx Mtr, VR12-Driver Bias, VR10-Tx Mtr... (See Vol. 18 for additional locations)...Will print update on adjustments if received, as no unit to play with! SLIDE-Vol.18

MIDLAND 2001 (EXPORT): Owner's Manual is for U.S. model, has addendum for Export Version and schematic also. SPECIAL NOTE: Check Final immediately as schematic calls out 2SC495 being used as a Final-change to 2SC1306! This is only in some production runs-I HOPE, as don't have access to unit. Frequency shift is by two external crystals for low/hi bands, 14.91MHz for low band and 15.81MHz for hi band.. THEORY wise replacing the 15.81 crystal with a 14.46MHz crystal will achieve 40 additional channels on the lower side. Thus keeping off the SSB Fo's. (The crystal change should start you out at 26.065MHz-with realignment of PLL section..!) Rx Tune: L101, L102, L103, L104, L105, L106, L107. Tx Tune: L301, L302, L303, L304, L305, L306. Adjustments inside unit: RV103-S Meter, RV202-Tx Meter, RV201-AMC, RV101-Sq Rng... IF NEEDED ONLY-AMC defeat is C228... If too noisy, increase value of C131... Nice little unit and not too \$\$, from what I hear...

MAJOR M-120: If you are bi-lingual will have fun on the manual that comes with this unit, (or learn something new-French & German also.). Basic Hygain 02A 2-Crystal chassis, with additional FM and Oscillator boards. Also has been changed to Relay switching for additional plug-in (not available). Comes with schematic, but schematic of the Oscillator board is not given? Final is 2SC1306-See SCB Vol. 15, page 65 for basic idea on Power modification. (I have seen a 'sealed' full-blown modified unit already and checked on a dummy load: Freq Range was 25.685-28.305MHz, Power spread ran from 8.4W to 11.1W across the band...wrote up the freq's and is further on in this volume.) Also have heard that these units aren't expensive initially and 'out-of-box' performance needs only the the AM modulation turned up to about 90%. Line-up is basic Hygain 02A Chassis....(DO NOT REMOVE THE MODULATION LIMITER).....

GRANT-DX: This unit was the fastest unit to sell-out I have seen, GONE in two weeks flat! No frequency list comes with the EXPORT manual, but a schematic does come with it. 8719-PLL is fed by 2-4 bit adders; has 2-2SC2312's in parallel for RF Power (Final), and 2SC2166 used as a Driver. Unit doesn't have the 'split clarifier' as in the 02A chip exports; which is good-also furnished with unit is 'kit' for \pm 7KHz 'Slider', and instructions are good. The one mis-giving on this unit is no SWR meter? Power has to be turned down, if you are going to use a linear: VR13-AM, VR12-SSB, VR14-AMC. (Have heard that is smoking Linears!) Basically is a cross between Early/Late Versions of the Cobra 148GTL-DX with 'beefed' Transmit, switchable BEEP, standard U.S. clarifier, and NO SWR meter! If only they had used the MC145106P-PLL chip, and had an SWR Meter... No alignment on unit as yet, but have been told adjustments are marked on PCB.....