

Superstar 1700S (LC7120-PLL)

by B.W.

WEIRD, 'set-up/manufacture' involved with this unit.

Schematic is WRONG! Use Ham International UK for reference in doing any line-up/repair. Component wise is identical to the unit; location of parts will differ; as VR's for power/modulation are on board #444FM. (Schematic is on page 56 of Vol. 22.)

"1st thing to check for before applying power"....cable from #54 of PCB #444FM (Orange in this unit), should be soldered to Pin 24 of PLL chip....which is an idiot practice. If broken loose as it was in this unit, resolder to case of L5.

S/N: 4165122, Out-of-box: 1W, 4.5W, and 8W, in power ranges with maximum modulation of 35%. Alignment/Tune-up is as follows:

TX: L8, L9, L10, L12, L15, and L16. RX: L18, L19, L20, L22, L23, and L24.

VR1 - TX Mtr, VR2 - Sq Rng, and VR3 - RX Mtr....these adjustments will be found on the main PCB. VR10 thru 15 are on the small PCB #444FM:

VR10 - FM Insertion, VR11 - Hi Pwr Mod, VR12 - Mid Pwr Mod,

VR13 - Low Pwr Mod, VR14 - Mid RF Pwr, VR15 - Low RF Pwr.

Checking out/Playing around with this unit came up with the following: Q21 has been changed to a 2SD234. Rejection isn't that bad, so don't suggest adding another filter in series. C81 can be increased in value if needed for better ANL. By 'swapping crystals and realigning PLL circuitry' found out that chassis will start to "drop out" at about 28.8MHz, WITH PRESENT COMPONENTS... So if you wanted to shift the unit to upper Fo band will have to play with some component changes. Also, it is best to align in about 5W range for AM, while tuning for maximum modulation. 'Don't try to set-up in max RF range!..... Overall is very versatile and cheap unit.