---148GTI-DX (Early-Late) - FACTS---

BAS

EARLY: A. S/N Range: 03000001-4498 to 13000001-1504

- B. PLL Chip is MB8719
- C. Crystal switching for LOW/MID/HIGH Fo ranges.

(for further frequency increases the the standard 8719 modification may be utilized. *Or just switch the crystals.)

- *Here is a discrepancy that would like to get cleared up as haven't run across an 'Early' unit to check it. If anyone can help on this; please do; and give serial no. of unit. (XX- the last two numbers!).
 - 1. Schematic shows X-2 as 15.03MHz; X-3 as 15.48MHz; and X4 as 15.93MHz....if this the case 14.58MHz will take you down another 40 ch., and 16.38MHz will take you up 40 more..
 - 2. Board layout diagram and Block diagram show X-2 is 15.48MHz; X-3 is 15.93MHz; and X-4 is 16.38MHz.... to go down another 40 ch. use 15.03MHz, and 16.83MHz for additional higher channels.

Of the 6 units I have seen all were 'Late' DX's, haven't even heard of anyone having an 'Early' yet.....

Good

- LATE: A. S/N Range is above 13000001-1504
 (Unit utilized for modification in Vol. 15 was #13015XX.)
 - B. ALL, (with exception of line-up) published in Vol. 15 and Vol. 16 of SCB was for 'Later' version (See OOP's this Vol.).
 - C. PIL Chip is MC145106P; with 2 MC14008BCP, 4-bit full adders to accomplish logic switching via selector/range switch.
 - D. PLL Pinout below:

(Chip B+)Vdd1	0	18Vss(D.C.	(Gnd)
F in2		17Po	u.m./
0sc in3		16P1	
Osc out-4		15P2	
$\frac{1}{2}$ 0sc5		14P3	
*Fo select6		13P4	
Ø Det7		12P5	
Lock Det8		11P6	
P89		10P7	
. 0/			

*Logic l=10KHz steps, Logic 0=5KHz steps,-SOMETIMES!!

Using above and information in Vols 15 & 16, can 'custom' modify the unit as you see fit with no problem... known frequency ranges on some 'Late' units are from 25.785MHz to 28.245MHz..Power output linearity??