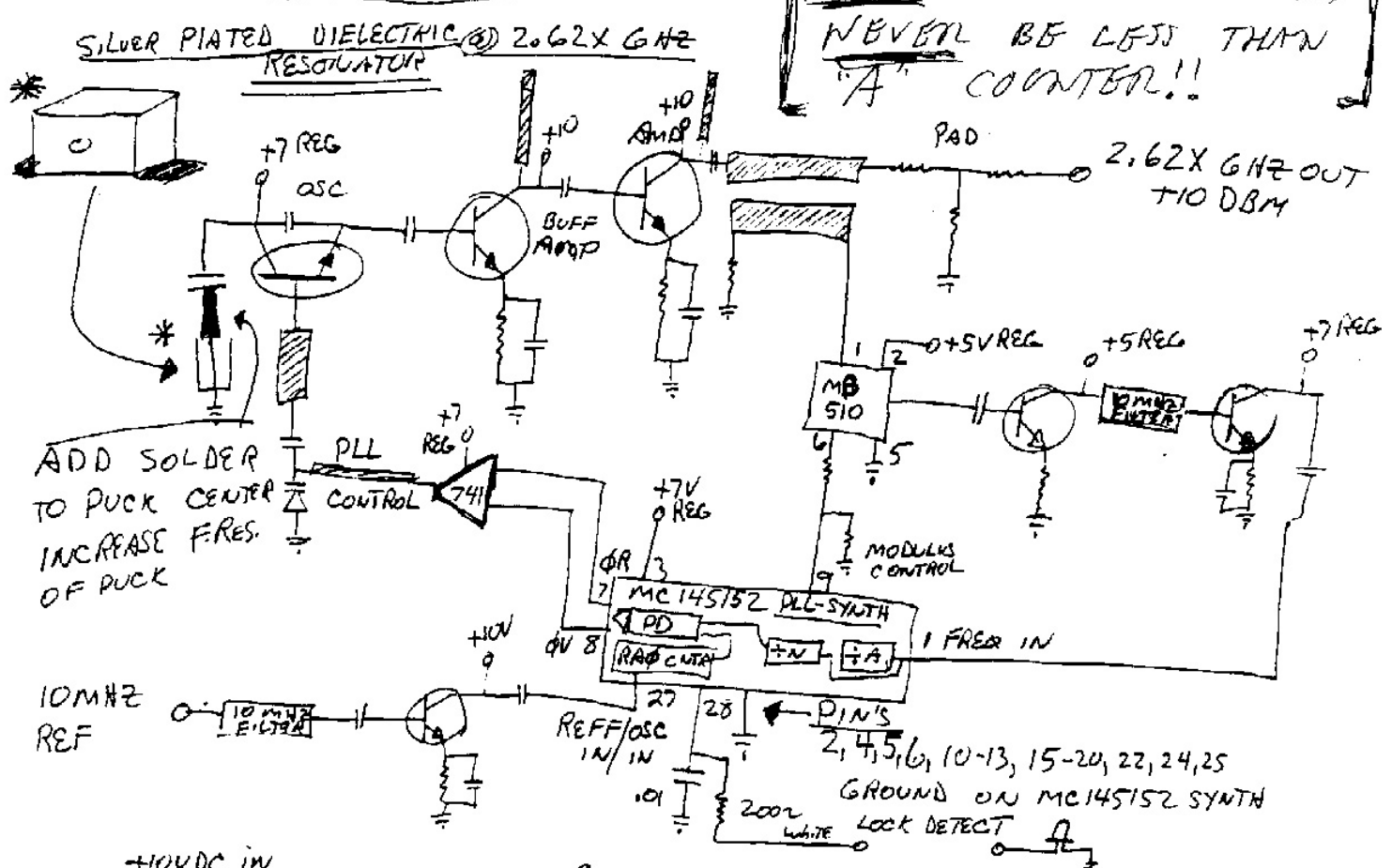


5/30/2002

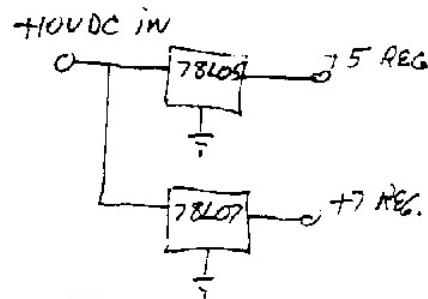
NOTE: "N" COUNTER MUST NEVER BE LESS THAN "A" COUNTER!!



CONVERSION TO 2640 MHz

1. TOP OF BOARD CUT MC145152 PIN #22 (LIFT HIGH)
2. BOTTOM OF BOARD GROUND PINS 21-22-23 (SHORT COMMON)
3. ADD SOLDER TO DECREASE INDUCTANCE DRO PUCK CENTER

A COUNTER 6 BIT ÷ 0 TO 63  
 N COUNTER 10 BIT ÷ 3 TO 1023  
 RAØ COUNTER SET TO ÷ 8 (10MHz/8 = 1.25 MHz)



MC145152	PINS															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	REFERENCE FREQ	
	F <sub>IN</sub>	V <sub>SS</sub>	V <sub>DD</sub>	RAØ	RA1	RA2	ØR	ØV	MOD CNTL	A5	NØ	N1	N2	N3		
	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
	N4	N5	N6	N7	N8	N9	A1	A2	AØ	A3	A4	OSC OUT	OSC IN	L.D.		

STOCK BOARD = 2620 MHz = 1.25 x ((N x 256) + (A x 16))  
 N=8 A=3  
 2620 MHz = 1.25 x ((2048) + (48))

MODIFIED BOARD TO 2640 MHz = 1.25 x ((8 x 256) + (4 x 16))  
 ((2048) + (64))

CHANGING THE "A" COUNTER FROM "3" TO "4" CHANGES SYNTH PROGRAMMING UP 20 MHz FROM 2620 MHz TO 2640 MHz

\* MODIFICATION TO DRO PUCK. ADD SOLDER BRIDGE TO INCREASE SIZE OF CENTER OF DRO PUCK TO BOARD CHIP CAPACITOR. REDUCE'S INDUCTANCE & INCREASES DRO RESONANT FREQUENCY.