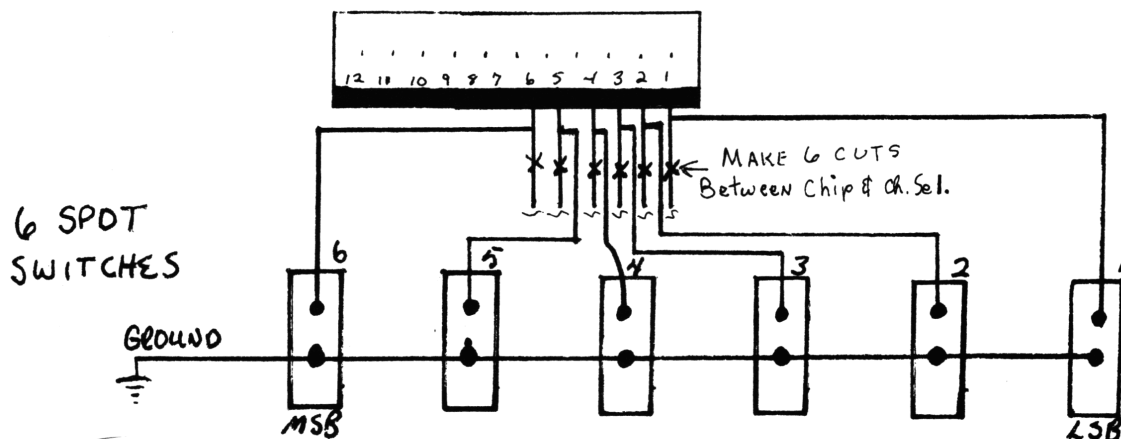


## AR144 UPDATE

We have found that if you replace the UPD2824C with a UPD2816C chip, and disconnect pin 15, you can go up to 10 meter without any other changes. Ground pin 9 for 28MHz channels. Open pin 6 to take it high for higher 28MHz channels. Adjust L14. You can use the following switch box to re-program all 6 program inputs(pins 1-6).

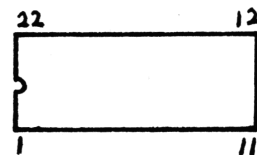


The only problem is that we haven't been able to get any channels between 27.405 and 28MHz!

## PLL PINOUT DIAGRAM

### UPD 2816C

Pin	1	Program input	P1
	2		P2
	3		P3
	4		P4'
	5		P5
	6		P6
	7	$\frac{1}{2}$ T- F/F input	
	8	$\frac{1}{2}$ T- F/F output	
	9	TX/RX switch input H-RX; L-TX	
	10	5.12MHz output	
	11	Power Supply Voltage	
	12	Crystal osc. output	
	13	Crystal osc. input	
	14	Buffered 10.24MHz output	
	15	Lock detector output(Xmit stop)	
	16	Lock detector integrator	
	17	Error signal output	
	18	Filter amplifier input	
	19	Filter amplifier output	
	20	Ref. freq. switch input H-10Kc; L-5Kc	
	21	Ground	
	22	Programmable divider input	



This chip is identical to the UPD 2824C, except that the latter does not have the pin 9 function.