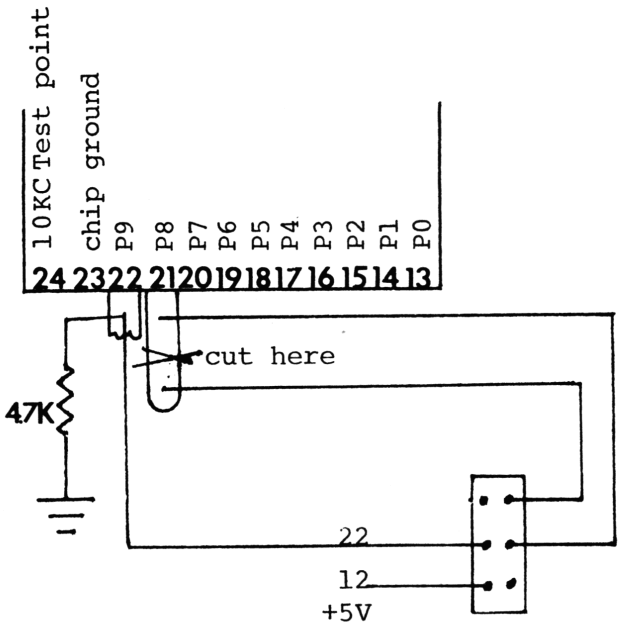
EXTRA! EXTRA! READ ALL ABOUT IT!!!

HOW TO GET ON 28 & 29 MHZ WITH THE UPD858 PLL CHIP

Here's How:



1. Isolate pin 22.

2. Install a 4.7K Ohm resistor from 22 to ground.

3. Wire up a DPDT switch as shown above. This gives channels up to 28.405.

If you really want to GET HIGH, take both pins 21, and 22 high for channel 28.965-29.405.

Taking pin 19 high also will net 29.455, on channel 8, up to 29.805 on channel 40.

Have fun with this one!

See also the following pages for more 858 goodies.

SSB TRUTH TABLE FOR 858 CHIP

1= VCC 0= 0Volts

	PINS								
Frequency	13	14	15	16	17	18	19	20	21
26.055	0	0	0	0	0	0	0	0	0
065	1	0	0	0	0	0	0	0	0
075	0	1	0	0	0	0	0	0	0
085	1	1	0	0	0	0	0	0	0
095	0	0	1	0	0	0	0	0	0
105	1	0	1	0	0	0	0	0	0
115	0	1	1	0	0	0	0	0	0
125	1	1	1	0	0	0	0	0	0
135	0	0	0	1	0	0	0	0	0
145	1	0	0	1	0	0	0	0	0
155	0	0	0	0	1	0	0	0	0
165	1	0	0	0	1	0	0	0	0
175	0	1	0	0	1	0	0	0	0
185	1	1	0	0	1	0	0	0	0
195	0	0	1	0	1	0	0	0	0
205	1	0	1	0	1	0	0	0	0
215	0	1	1	0	1	0	0	0	0
225	1	1	1	0	1	0	0	0	0
235	0	0	0	1	1	0	0	0	0
245	1	0	0	1	1	0	0	0	0
255	0	0	0	0	0	1	0	0	0
265	1	0	0	0	0	1	0	0	0
275	0	1	0	0	0	1	0	0	0
285	1	1	0	0	0	1	0	0	0
295	0	0	1	0	0	1	0	0	0
305	1	0	1	0	0	1	0	0	0
315	0	1	1	0	0	1	0	0	0
325	1	1	1	0	0	1	0	0	0
335	0	0	0	1	0	1	0	0	0
345	1	0	0	1	0	1	0	0	0
355	0	0	0	0	1	1	0	0	0
365	1	0	0	0	1	1	0	0	0
375	0	1	0	0	1	1	0	0	0
385	1	1	0	0	1	1	0	0	0
395	0	0	1	0	1	1	0	0	0
405	1	0	1	0	1	1	0	0	0
415	0	1	1	0	1	1	0	0	0
425	1	1	1	0	1	1	0	0	0
435	0	0	0	1	1	1	0	0	0
445	1	0	0	1	1	1	0	0	0
455	0	0	0	0	0	0	1	0	0
465	1	0	0	0	0	0	1	0	0
475	0	1	0	0	0	0	1	0	0
485	1	1	0	0	0	0	1	0	0
495	0	0	1	0	0	0	1	0	0
505	1	0	1	0	0	0	1	0	0
26.515	0	1	1	0	0	0	1	0	0

TRUTH TABLE FOR 858 CHIP (CONT)

Frequency	13	14	15	16	17	18	19	20	21
26.525	1	1	1	0	0	0	1	0	0
535	0	0	0	1	0	0	1	0	0
545	1	0	0	1	0	0	1	0	0
555	0	0	0	0	1	0	1	0	0
565	1	0	0	0	1	0	1	0	0
575	0	1	0	0	1	0	1	0	0
585	1	1	0	0	1	0	1	0	0
595	0	0	1	0	1	0	1	0	0
605	1	0	1	0	1	0	1	0	0
615	0	1	1	0	1	0	1	0	0
625	1	1	1	0	1	0	1	0	0
635	0	0	0	1	1	0	1	0	0
645	1	0	0	1	1	0	1	0	0
655	0	0	0	0	0	1	1	0	0
665	1	0	0	0	0	1	1	0	0
675	0	1	0	0	0	1	1	0	0
685	1	1	0	0	0	1	1	0	0
695	0	0	1	0	0	1	1	0	0
705	1	0	1	0	0	1	1	0	0
715	0	1	1	0	0	1	1	0	0
725	1	1	1	0	0	1	1	0	0
735	0	0	0	1	0	1	1	0	0
745	1	0	0	1	0	1	1	0	0
755	0	0	0	0	1	1	1	0	0
765	1	0	0	0	1	1	1	0	0
775	0	1	0	0	1	1	1	0	0
785	1	1	0	0	1	1	1	0	0
795	0	0	1	0	1	1	1	0	0
805	1	0	1	0	1	1	1	0	0
815	0	1	1	0	1	1	1	0	0
825	1	1	1	0	1	1	1	0	0
835	0	0	0	1	1	1	1	0	0
845	1	0	0	1	1	1	1	0	0
855	0	0	0	0	0	0	0	1	0
865	1	0	0	0	0	0	0	1	0
875	0	1	0	0	0	0	0	1	0
885	1	1	0	0	0	0	0	1	0
895	0	0	1	0	0	0	0	1	0
905	1	0	1	0	0	0	0	1	0
915	0	1	1	0	0	0	0	1	0
925	1	1	1	0	0	0	0	1	0
935	0	0	0	1	0	0	0	1	0
945	1	0	0	1	0	0	0	1	0
955	0	0	0	0	1	0	0	1	0
965	1	0	0	0	1	0	0	1	0
975	0	1	0	0	1	0	0	1	0
985	1	1	0	0	1	0	0	1	0
995	0	0	1	0	1	0	0	1	0
27.005	1	0	1	0	1	0	0	1	0

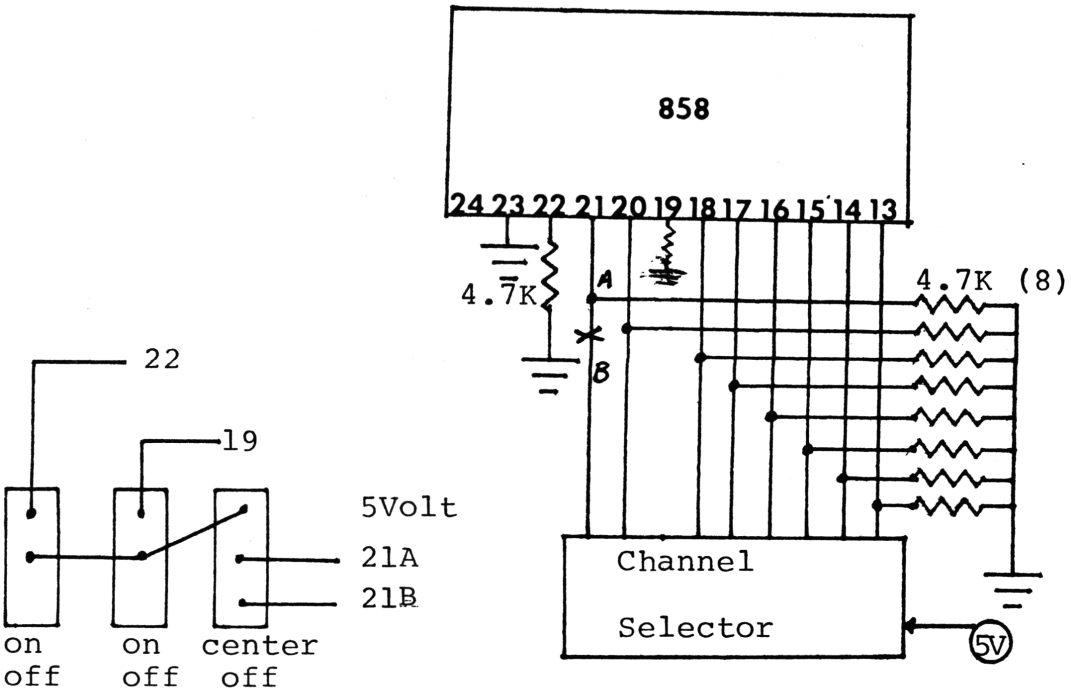
TRUTH TABLE FOR 858 CHIP (CONT)

Frequency	13	14	15	16	17	18	19	20	21
27.015	0	1	1	0	1	0	0	1	0
025	1	1	1	0	1	0	0	1	0
035	0	0	0	1	1	0	0	1	0
045	1	0	0	1	1	0	0	1	0
055	0	0	0	0	0	0	0	0	1*

*The scale of frequencies will have the same pin status as the frequencies at 26.---, after the point shown here. 27.055 has the same pin states as 26.055, except that pin 21 is now active. This progression will repeat itself as frequency increases.

If you take pin 22 high (with 21 low), you will get channels 27.965-28.405. With 19 high, you will get 28.455-28.805.

With 21 and 22 high you will get 28.965-29.405. With 19 high, you will get 29.455-29.805.



Steps to re-program 858

1. Isolate pin 19 and add 4700 Ohm ¼W carbon film resistor to ground.
2. Isolate pin 22 and add 4700 Ohm ¼W carbon film resistor to ground.
3. Cut pin 21 trace as shown above. ✕