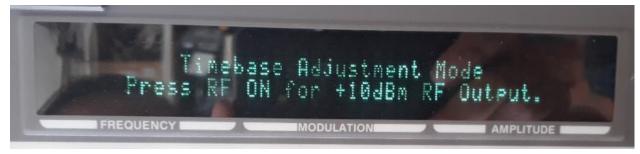
## <u>Timebase adjust procedure for HP8648 signal generator</u> yo4hfu – 2018

## 1. Switch OFF HP8648

2. Change to position 1 the rear side DIP Switch "Timebase Adjust"



- **3.** Switch ON HP8648, wait 30 minutes or more in order to warm-up the unit, OPT1E5 needs enough time to oven the 10MHz internal oscillator.
- 4. Next message will be displayed:

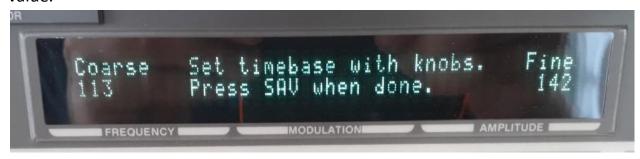


**5.** Push "RF ON" key. Connect accurate frequency counter (1Hz resolution) to HP8648 RF output. Output signal has 10dBm and 100MHz.

**6.** Adjust Frequency knob for Coarse and Amplitude knob for Fine until frequency indication of counter is exactly 100,000.000MHz.



**7.** When indication is stable, press "SAV" key in order to save new calibration value.



**8.** Switch OFF HP8648 and change DIP switch back to 0 position.

Done! Frequency calibration of signal generator will be better for next period. Before calibration I found small deviation of frequency, maximum 20Hz at 100MHz.

Frequency counter drive by GPS disciplined oscillator is recommend for best accuracy.