

Touch-tune for f.m. receivers

THIS circuit enables up to 10 channels to be touch tuned with a varicap supply voltage of up to 18V, and it features low drift with temperature variations. The 4017 is inhibited by R_4 until a channel is required. The appropriate section of the 4016 is turned on by finger contact which drives the clock inhibit line low. The 4017 counts clock pulses until the desired output goes high, and it is then

inhibited again. Components C_1 and R_5 ensure that channel 0 is selected at switch on.

In a receiver using the popular 1310 decoder, the circuit can be clocked at 19kHz using the buffered output from pin 10.

Alternatively, a 100Hz clock signal can be derived from a few turns of wire, around the mains transformer, and a

bridge rectifier as shown. Although no trouble has been experienced with static damage to the transmission gates, input protection as shown can be included.

For safety reasons this circuit should only be used in equipment incorporating a double wound mains transformer and an earthed chassis.

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