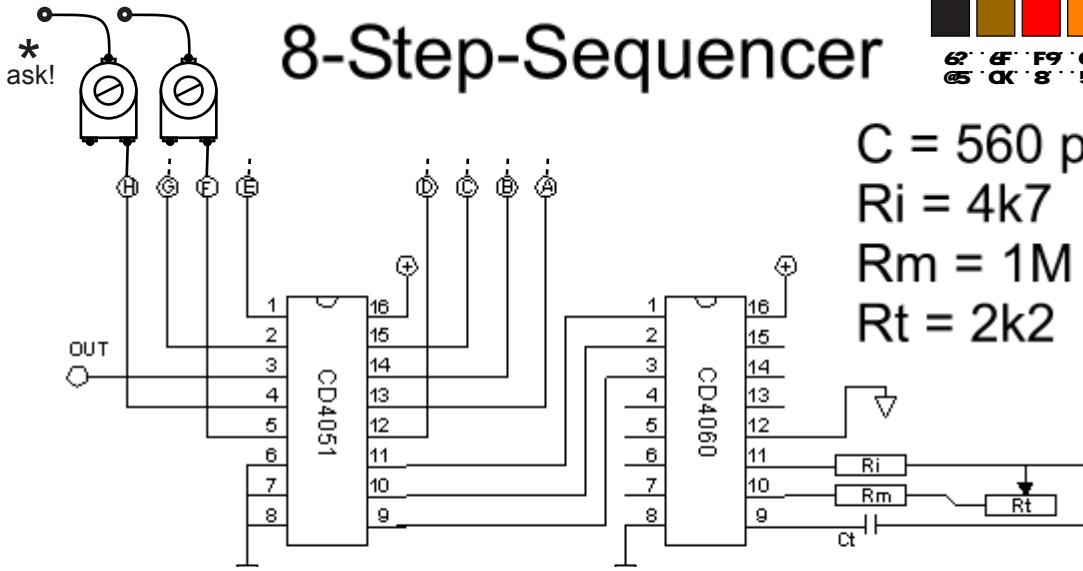
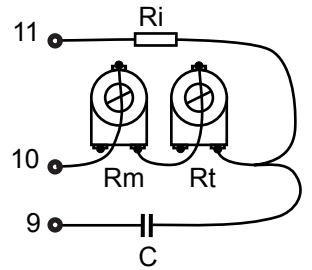


\$ % & () * + , -
 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
 @ # \$ % & ' () * + , - . / : ;
 < = > ? [\] ^ _ ` { | } ~

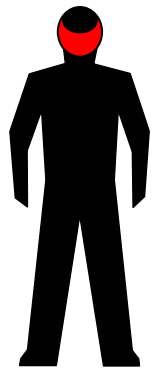
8-Step-Sequencer



$C = 560 \text{ pF}$
 $R_i = 4\text{k}7$
 $R_m = 1\text{M}$
 $R_t = 2\text{k}2$



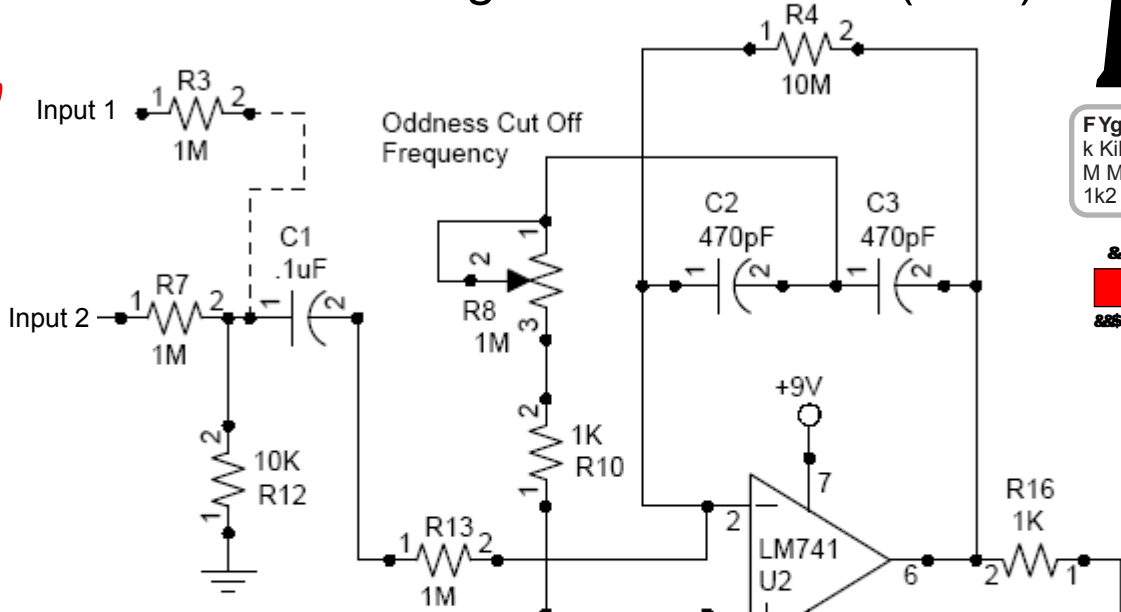
Sequencer "samples" A, B, C, ... H, A, B, C... in order forever. Sample speed is controlled by the timing components R_t , C_t , and to a lesser extent R_i , R_m . $R_m + R_t$ is the effective timing resistance, and R_m sets a maximum speed. Time between sequence steps is $16384 * 2.2 * C_t * (R_m + R_t)$. For $R_t = 50\text{k}$, $R_m = 4.7\text{k}$, and $C_t = 470\text{pF}$, step time varies between about 1 second and 1/10 second. The on-chip oscillator of the CD4060 runs between 16kHz and 160kHz, so audio interference is unlikely.



Cool Sounding Low-Pass-Filter (LFO)



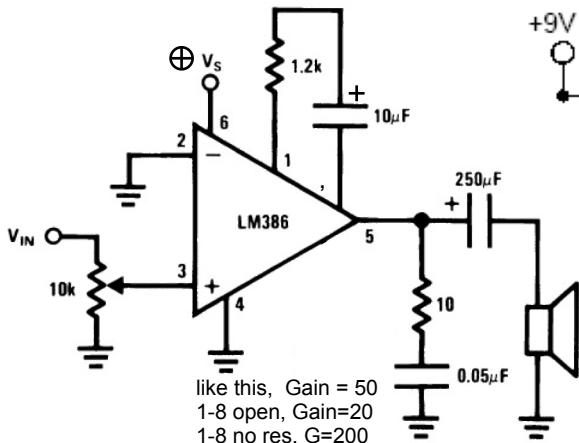
7 UdUWmi7.
 μF , nF, pF
 micro-Farad
 nano-Farad
 pico-Farad



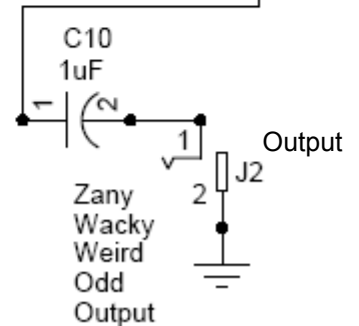
FYgJghUwW F.
 k Kilo-Ohm
 M Meg-Ohm
 1k2 = 1.2KiloOhm

& & & & & &
 \$\$\$ Oag 1 & &

500mW - Power-Amp



like this, Gain = 50
 1-8 open, Gain=20
 1-8 no res, G=200



Xtra Circuits

PRELIMINARY GRAPH FOR DEAF Rotterdam
 Jo frmnt Grys / tob.de.vu / 2007
 Transmitting object Behaviors