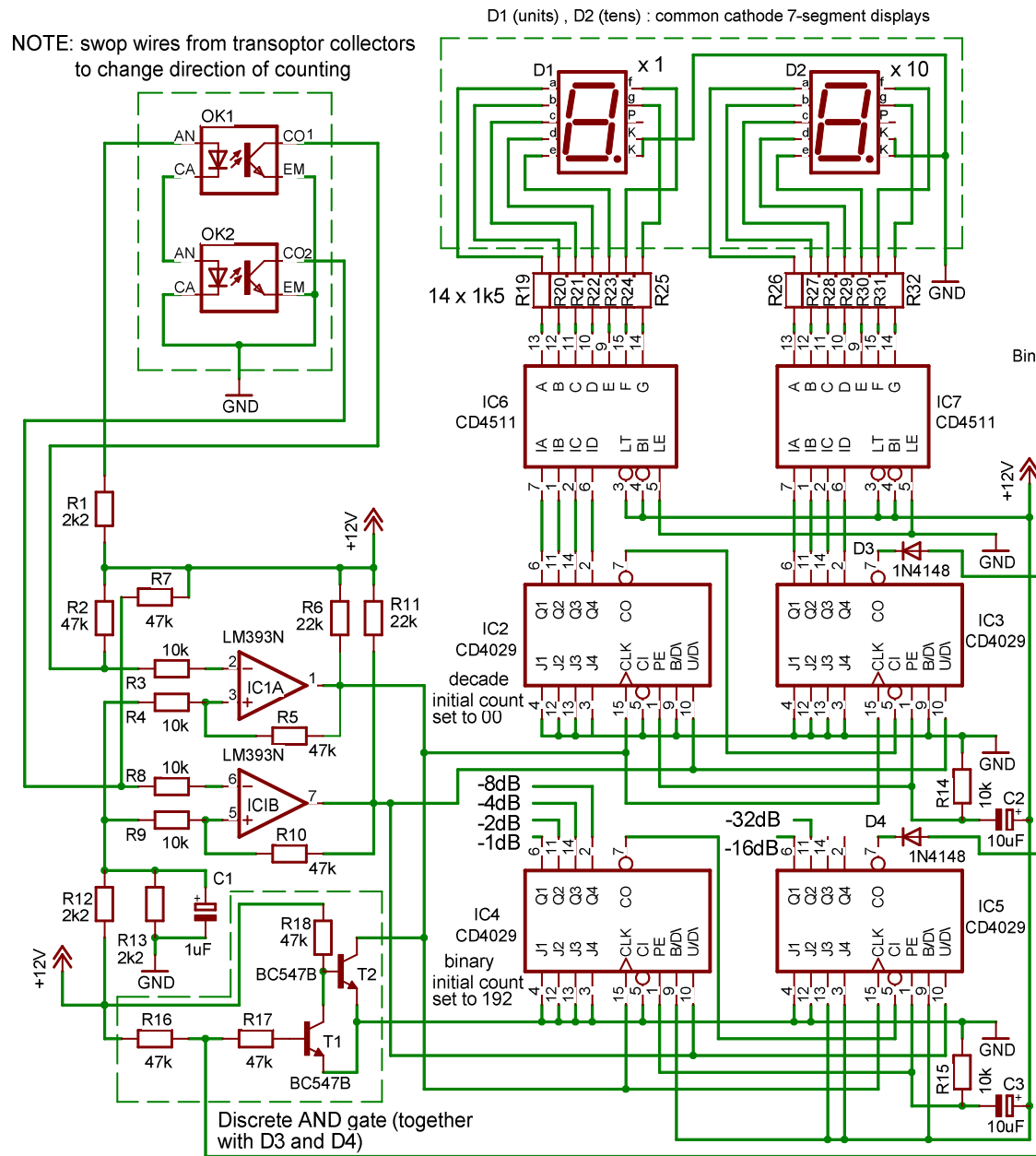


NOTE: swap wires from transistor collectors to change direction of counting



Maximum count = 63 corresponds to 0 dB attenuation (max volume)

Minimum count = 00 corresponds to -63 dB attenuation (min volume)

Initial volume set to -63 dB (00 count) but can be changed by programming

J1 to J4 inputs of decade counters (IC2 & IC3)

C2/R14 and C3/R15 set counters on power-on to value of J inputs

Binary counters (IC4 & IC5) set to initial value = 192 and are counting to 255 (255 - 192 = 63)

Number of bits can be increased to 7 or 8 by adding one decade counter, one display and relays/resistors on relay board (PC boards will have to be modified)

Additional C4 to C10 = 0.1uF decoupling caps added on PC board

OK1 , OK2 : photo-interrupters + rotating disc with cut-outs  
(attach disc in place of resistive element in ordinary pot)  
Note: width of cut-outs to be slightly wider than spacing of interrupter beams; increase disc diameter to fit more teeth/cut-outs

6- bits ( 0 to -63 dB attenuation range) linear pot

witold b (diyaudio.com / elektroda.pl)

**TITLE: attenuator counter**

**Document Number:**

**REV:**  
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**Sheet:** 1/1