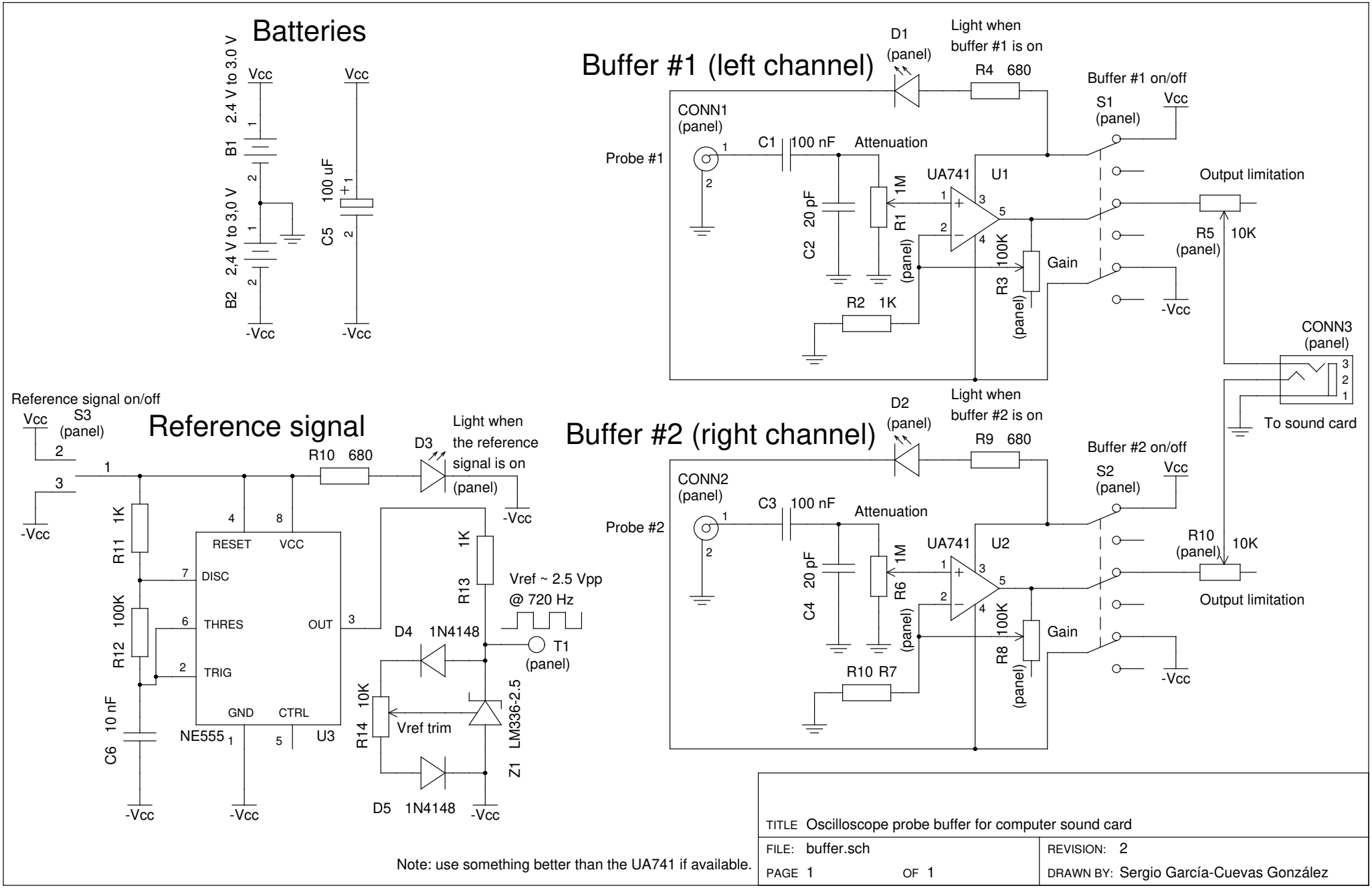
Batteries
B1 2.4 V to 3.0 V
B2 2,4 V to 3,0 V
C5 100 uF
Vcc
-Vcc
Buffer #1 (left channel)
D1 (panel)
Light when buffer #1 is on
R4 680
Buffer #1 on/off
S1 (panel)
CONN1 (panel)
Probe #1
C1 100 nF
Attenuation
C2 20 pF
R1 1M
UA741 U1
R2 1K
R3 100K
Gain
R5 10K
Output limitation
CONN3 (panel)
To sound card
Buffer #2 (right channel)
D2 (panel)
Light when buffer #2 is on
R9 680
Buffer #2 on/off
S2 (panel)
CONN2 (panel)
Probe #2
C3 100 nF
C4 20 pF
R6 1M
UA741 U2
R10 R7
R8 100K
R10 (panel) 10K
Reference signal
Reference signal on/off
S3 (panel)
D3
Light when the reference signal is on
R10 680
R11 1K
R12 100K
C6 10 nF
NE555 U3
RESET VCC DISC THRES OUT TRIG GND CTRL
R13 1K
Vref ~ 2.5 Vpp @ 720 Hz
D4 1N4148
T1 (panel)
R14 10K
Vref trim
Z1 LM336-2.5
D5 1N4148
Note: use something better than the UA741 if available.
TITLE Oscilloscope probe buffer for computer sound card
FILE: buffer.sch
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REVISION: 2
DRAWN BY: Sergio García-Cuevas González