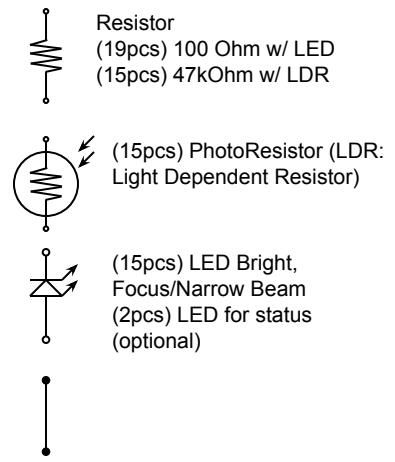
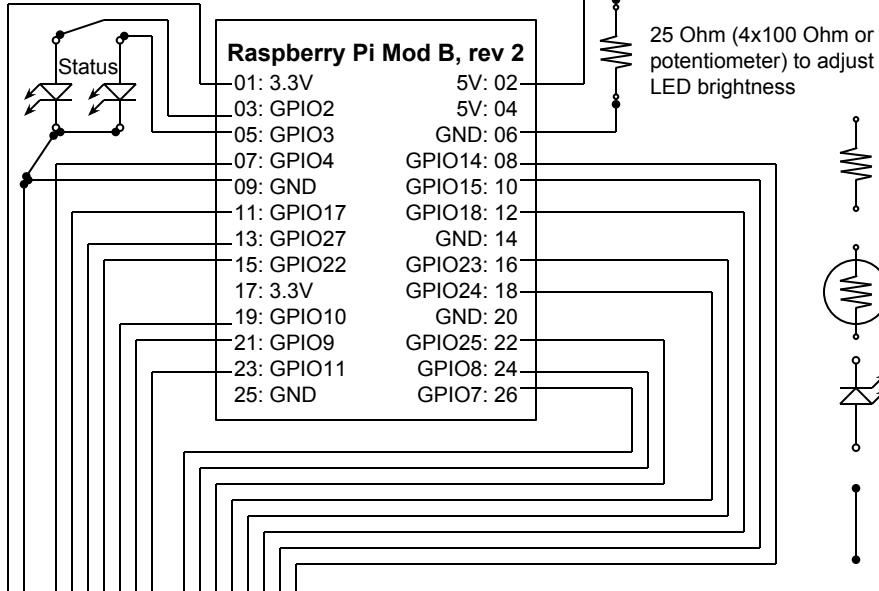
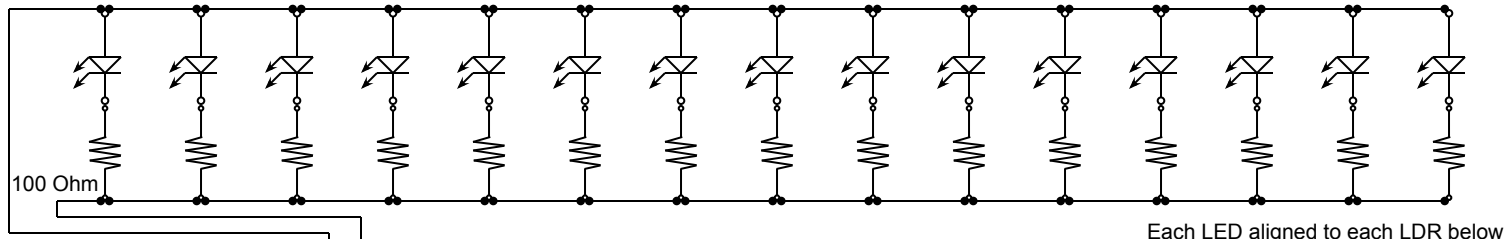


# Raspberry Pi LED Light Schroeder Piano - Schematic

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## NOTES:

- ❑ 6" max distance with 1" spacing between LDR and LED with narrow beam LED as light bleeds between (1/4" tube to hold LDR and LED) placed in 1" whole of 1"x2" trim
- ❑ Dark background around LED helps remove ambient light
- ❑ <0.8 Volts with not light; >2.0 Volts with light
- ❑ 15 LED/LDR pairs (12 Notes for full Octave, 1 Octave Up, 1 Octave Down, 1 Menu)
- ❑ LED common ground resistor can tune LED brightness and current draw
- ❑ Do not enable pullup/pulldown on GPIO
- ❑ LDR >50k Ohm w/o light, <10k Ohm w/ light
- ❑ 5V of Raspberry Pi has more current/power to drive brighter LEDs
- ❑ Align LDR with Center of LED Light

