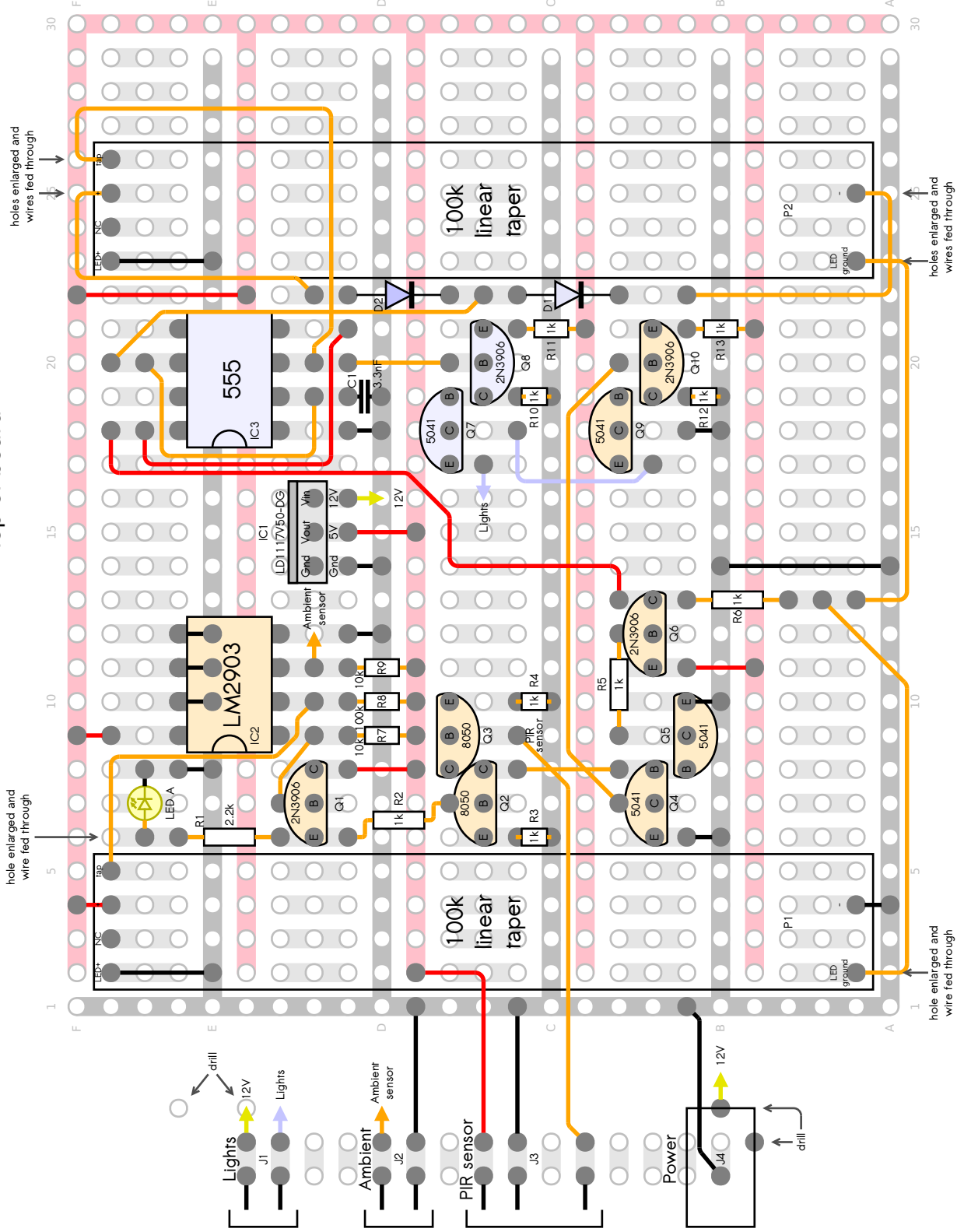


Top of board



Suggested parts:

- Resistors:**
 - 4x 1k 2W (R10-R13)
 - 5x 1k 500mW (all others)
 - 1x 2.2k 500mW
 - 2x 10k 500mW
 - 1x 100k 500mW
 - 2x 100k Linear potentiometer with LED Bournes PTL45-1500-104B1
- Capacitors:**
 - 1x 3.3nF
- Transistors:**
 - 4x KSD041RTA NPN BJT 20V 5A
 - 4x 2N3906BU PNP BJT 40V 200mA
 - 2x 5S8050CDBU NPN BJT 40V 1.5A
- Diodes:**
 - 2x 1N4148-T general purpose
- LEDs (diffused):**
 - 1x amber (e.g. SSL-LX5093AD 30mcd 30mA)
- ICs:**
 - 1x LM555 timer
 - 1x LM2903 dual analog comparator
 - 2x 8-pin socket (optional)
- Power supply:**
 - 1x LD1117V50-DG 5V 800mA LDO (non-LDO equivalent is OK)
- Connectors:**
 - 7x right-angle pin header
 - 1x 2.1mm plug
 - 1x 2.1mm right-angle jack (e.g. AdaFruit 393)
- Sensors:**
 - 1x Phototransistor (e.g. OED-PCC-9PS-1L)
 - 1x PIR motion sensor (e.g. AdaFruit 189) (see separate schematic)
- Circuit boards:**
 - 1x Radioshack 276-168B
- Case:**
 - 1x Large hinged box
 - Container Store 10054860
- Mounting hardware (all nylon):**
 - 4x 5/8" 0/32 bolt (binding head)
 - 4x 6/32 hex nuts
 - 4x 3/8", 0.14" ID standoff



Monochrome LED light strip dimmer
with ambient light and motion sensors
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Version 1.1, 2015-03-08
<http://alexhajnal.net/software/led-strip-dimmer.html>