

* Alternate values for R_{SP1} , R_{SP2} MAY BE SUBSTITUTED TO PRODUCE A MORE USEABLE RANGE. THESE ALTERNATIVES ARE AS FOLLOWS:

| Value | Resistance |
|-----------|------------|
| R_{SP1} | $13.65k$ |
| R_{SP2} | $17.8k$ |

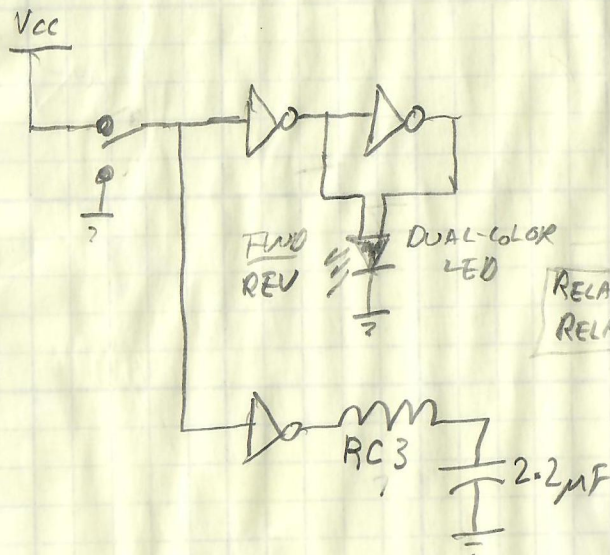
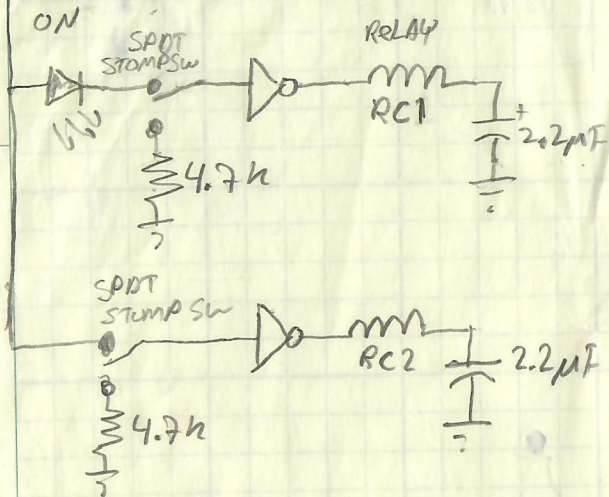
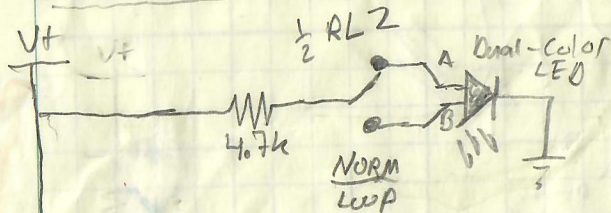
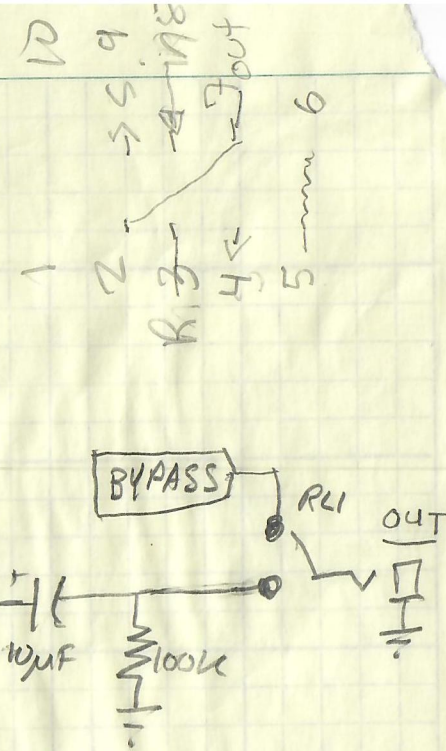
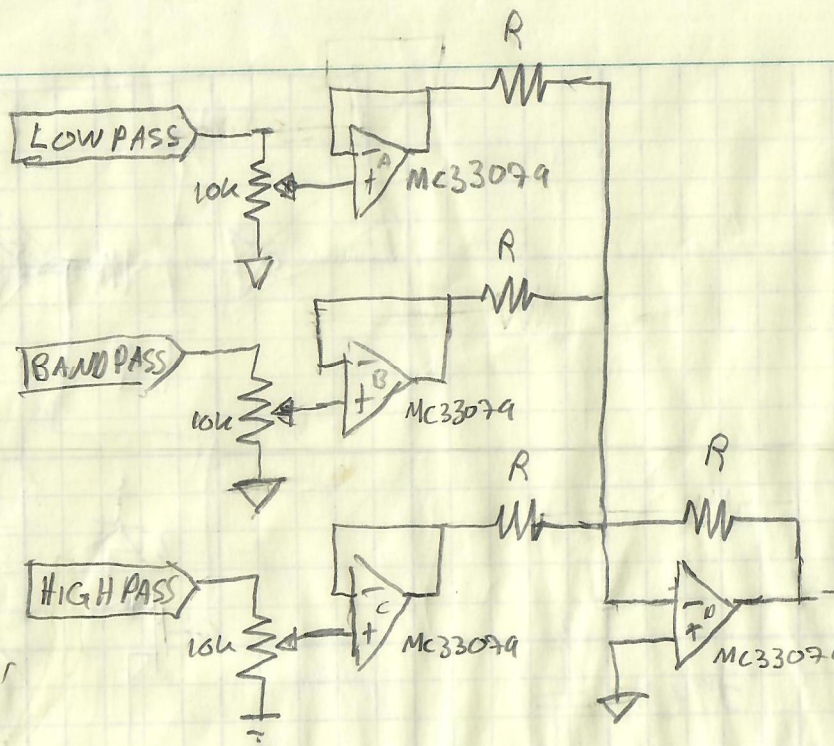
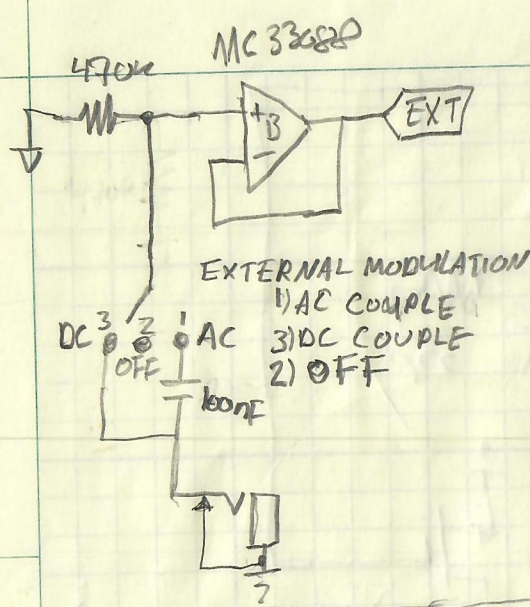
or

| Value | Resistance |
|-----------|------------|
| R_{SP1} | $7.8k$ |
| R_{SP2} | $7.8k$ |

VALUES ARE ACCOMPLISHED WITH PARALLEL & SERIES STD. VALUES

EASIER

$Q_1, Q_2: 2N5088$



ALL RELAYS NEC 55N5-5V DPDT LATCHING SINGLE COIL RELAYS (COMPOSED OF

| | RELAY 1 | RELAY 2 | RELAY 3 |
|--------------|---------|---------|---------|
| RELAY SWITCH | RL1 | RL2 | RL3 |
| RELAY COIL | RC1 | RC2 | RC3 |

CMOS INVERTERS: CD4049