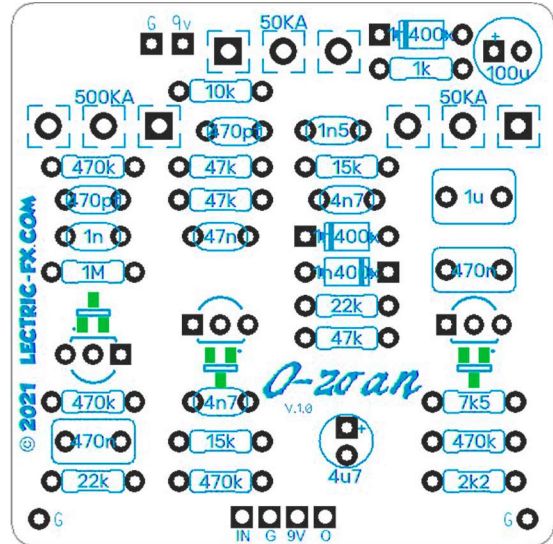
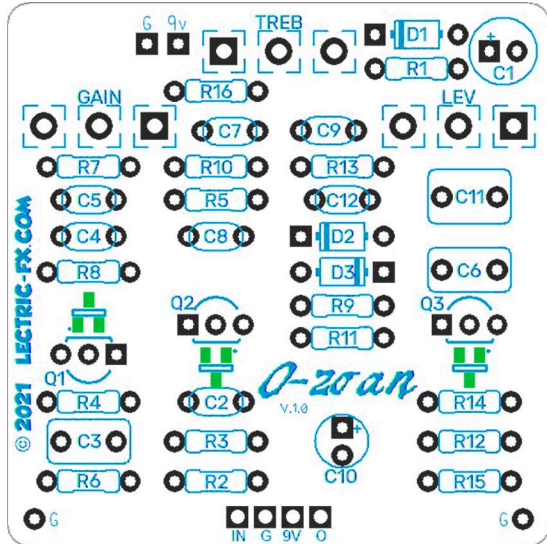





JFET Overdrive

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### Controls:

- LEVEL:** Controls the output level
- TREBLE:** Adds brightness to the tone
- GAIN:** Controls how much drive is added

The through hole JFET footprint on the pcb is for 2n5952, which sound great. The pinout is G-S-D.  Others like 5457 sound good if you don't have that type, but mind the pinout.

SMD pads have also been provided as an alternative to through hole. FWIW, mmbf5457 and mmbf5485 sound good in these spots, but are different flavors.

You might consider playing with R5 & R10 to get a 4.5v bias on Q1 and Q2. Something like 39k or 43k.

# O-zoan BOM

| Resistor # | Value |
|------------|-------|
| R1         | 1k    |
| R2         | 470k  |
| R3         | 15k   |
| R4         | 470k  |
| R5         | 47k   |
| R6         | 22k   |
| R7         | 470k  |
| R8         | 1M    |
| R9         | 22k   |
| R10        | 47k   |
| R11        | 47k   |
| R12        | 470k  |
| R13        | 15k   |
| R14        | 7k5   |
| R15        | 2k2   |
| R16        | 10k   |

| Capacitor # | Value |
|-------------|-------|
| C1          | 100u  |
| C2          | 4n7   |
| C3          | 470n  |
| C4          | 1n    |
| C5          | 470pf |
| C6          | 470n  |
| C7          | 470pf |
| C8          | 47n   |
| C9          | 1n5   |
| C10         | 4u7   |
| C11         | 1u    |
| C12         | 4n7   |

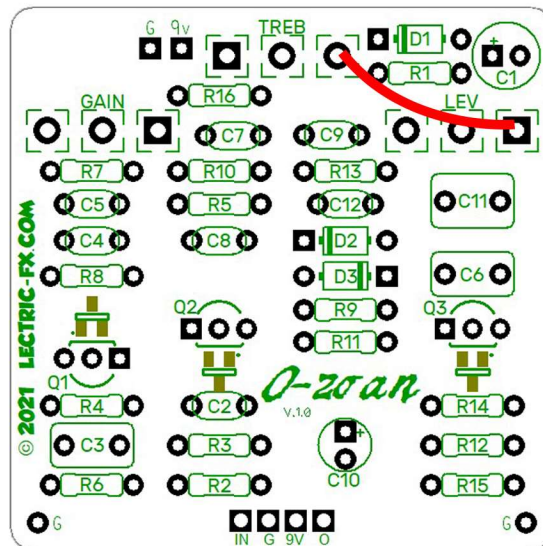
| Pot Name | Value |
|----------|-------|
| TREB     | 50KA  |
| GAIN     | 500KA |
| LEV      | 50KA  |

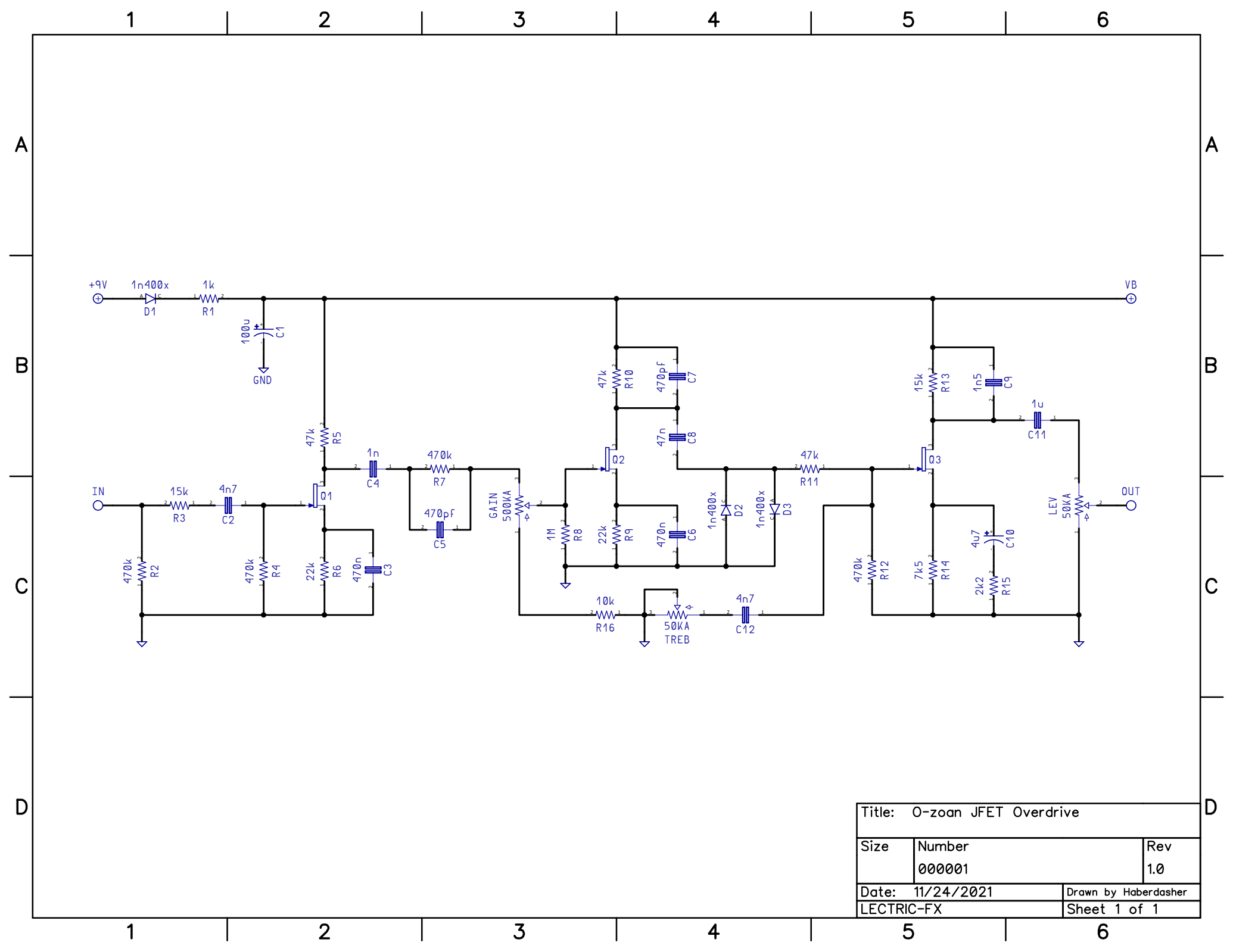
| Diode # | Value  |
|---------|--------|
| D1      | 1n400x |
| D2      | 1n400x |
| D3      | 1n400x |

| Part # | Value |
|--------|-------|
| Q1     | JFET  |
| Q2     | JFET  |
| Q3     | JFET  |



Please install an extra wire connecting pin 2 or 3 of the TREB pot to any ground point. LEV pin 1 is as easy as any other to access.



|                              |            |                      |
|------------------------------|------------|----------------------|
| Title: O-zoan JFET Overdrive |            |                      |
| Size                         | Number     | Rev                  |
|                              | 000001     | 1.0                  |
| Date:                        | 11/24/2021 | Drawn by Haberdasher |
| LECTRIC-FX                   |            | Sheet 1 of 1         |

# O-zoan Template

