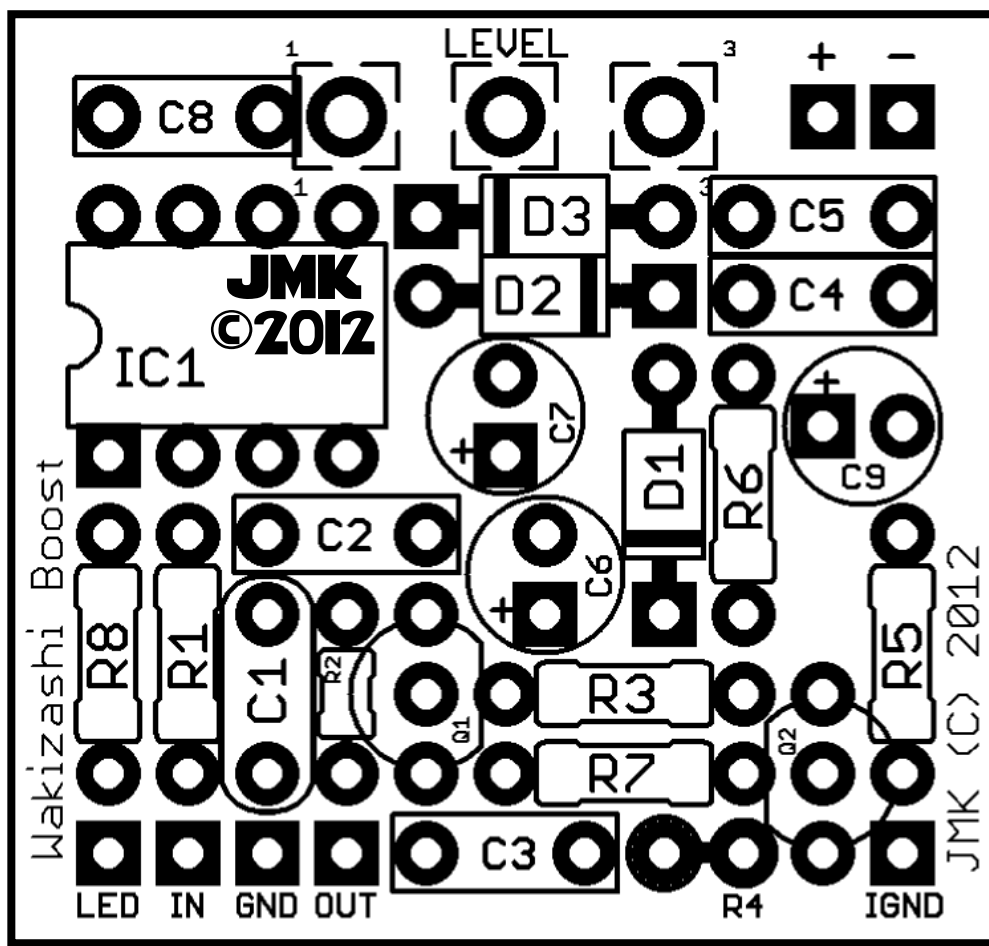


JMK PCBs PRESENTS...

WAKIZASHI BOOST

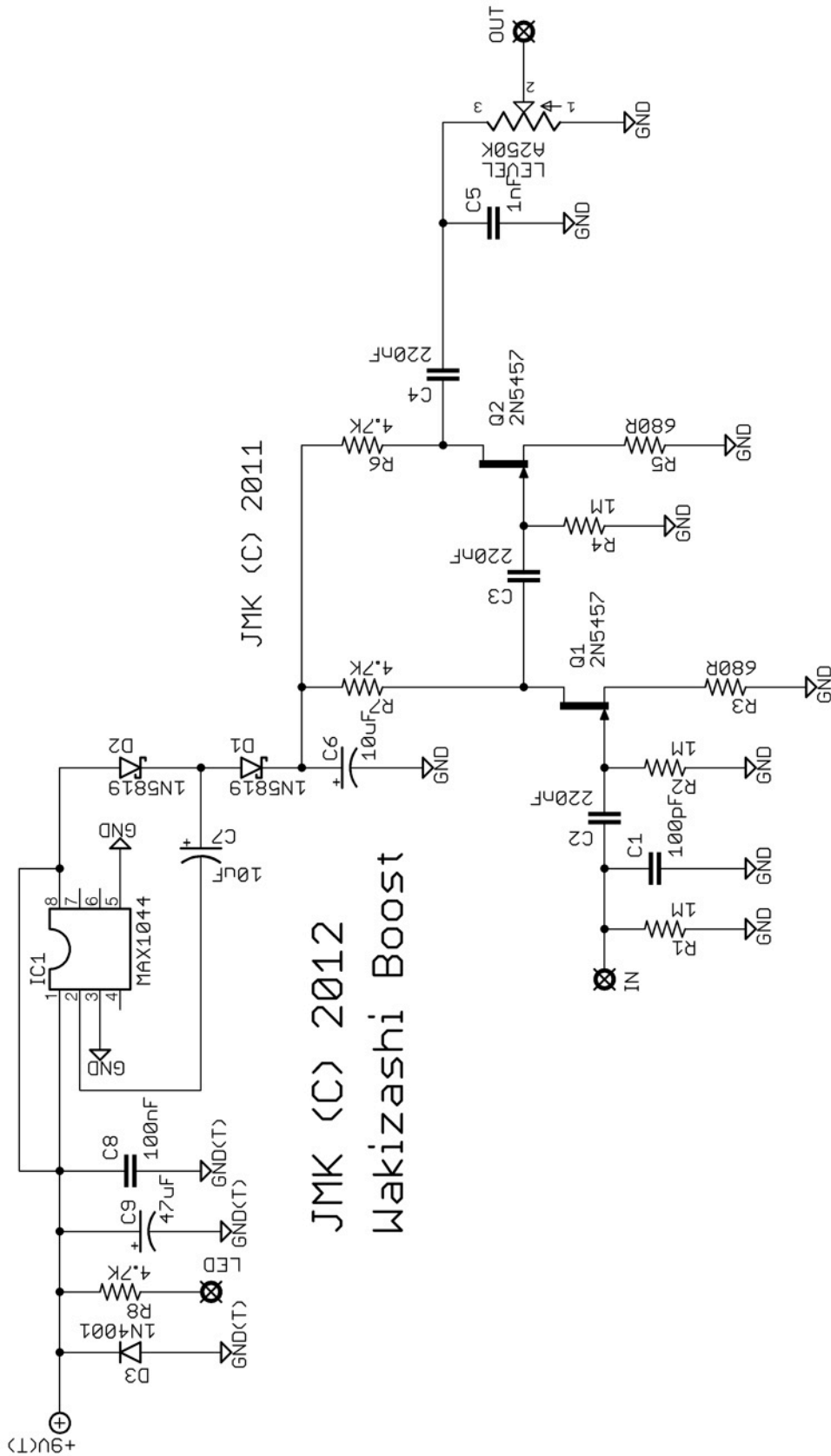
PCB AND SCHEMATIC ARTWORK (C) 2012 JMK PEDALS

VERSION 1: 9/25/2012



| Resistors | | Capacitors | | Transistors | | | | | |
|------------|---------|------------|--------|-------------|--------|----|-------|-----------------------|--------|
| R1 | 1M | R5 | 680R | C1 | 100pF | C6 | 10uF* | Q1, Q2 | 2N5457 |
| R2 | 1M | R6 | 4.7K | C2 | 220nF | C7 | 10uF* | Potentiometers | |
| R3 | 680R | R7 | 4.7K | C3 | 220nF | C8 | 100nF | LEVEL | A250K |
| R4 | 1M | R8 | 4.7K | C4 | 220nF | C9 | 47uF* | Diodes | |
| ICs | | C5 | 1nF | D1, D2 | 1N5819 | | | | |
| IC1 | MAX1044 | D3 | 1N4001 | | | | | | |

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BUILD NOTES

- The Wakizashi is a slightly modified version of the Famous Keeley Katana Booster. Essentially, what we've done is removed the switchable caps which the Keeley unit included on a push/pull pot switch. The circuit works as a charge pumped jFet boost, meaning that the jFets work at ~18V, and you've got quite a headroom available.
- Hooking up the PCB is fairly straight forward: LED = the connection for the + side of the LED (CLR is R8); IN = PCB Input; GND = Ground (for the switch); OUT = PCB Output; + = 9V Jack positive connection; - = 9V Jack negative connection; IGND = extra ground connection for your input or output jack.
- Some of the parts used in this project may be odd, so you can use common substitutes as suggested below. Keep in mind that pinouts on some parts may be different, so double check to make sure your part doesn't require a different orientation or pin swap.

| Part Number | Original Value | Common Substitute |
|-------------|----------------|-------------------|
| IC1 | MAX1044 | TC1044SCPA |
| Q1, Q2 | 2N5457 | J201, 2N5952 |
| D1, D2 | 1N5819 | 1N5817, 1N4001 |

- In particular, D1 and D2 may not be a common part. These diodes are suggested because they give you the closest voltage to 18V coming off of the charge pump (IC1). Using 1N4001 or similar silicon diodes is acceptable, but may lower your voltage to ~17V.
- Please note that the Pot orientation is different than the usual orientation for pots in other JMK PCB projects. The Pad numbering is 1-2-3, so the PCB would rest over the back of the Pot if a PCB mount Pot is used.
- The PCB measures 1.175" tall and 1.25" wide
- The PCB is small enough to fit into a 1590a/1090ns, though careful measuring before drilling is recommended.

TRUE BYPASS WIRING DIAGRAM

