



1140 NW 3rd Avenue
Canby, Oregon 97013
866-784-5887
www.screamingcircuits.com

Screaming Circuits® Turn-Key Service

Too busy to buy parts? With our Turn-Key add-on, we will order the PC boards and parts for you and then perform our lightning fast assembly. Just place the order and we'll do the rest. To ensure complete confidence and the best quality product, Turn-key orders require a phone call and a little more detail information than a kitted order.

Our Turn-Key service is composed of two options:

- **Full Turn-Key:** We will handle the entire process—including ordering all parts (circuit board and components).
- **Partial Turn-Key:** You can order the circuit board or components and Screaming Circuits will order the remaining parts.

Turn-Key is an add-on to our standard service and is available for any turn-time or board quantity. As with a kitted order, the assembly turn-time does not begin until we have the parts and boards in-house. There is a \$500 minimum on materials for Turn-Key orders.

We will buy only the exact parts that you specify – no unauthorized part substitutions.

Turn-Key Order Flow

1. **Initiate Turn-Key Order:** To place a turn-key order, First, use our online quote engine to receive a quote for the labor portion of the job. Save the quote for our reference. (If you are not already registered with us, you will need to register to save the quote.)
2. **Send Required Information:** email the Bill-of-Materials and other required information to Screaming Circuits. (See "What we need" below)
3. **Complete the quote and confirm:** Screaming Circuits returns a final labor + materials quote. You will confirm the order, quantity and turn times.
4. **Assembly:** Screaming Circuits orders the parts, performs assembly, handles order tracking and management, assembly, quality inspection, creates a Design for Manufacturability report.

What We Need for Turn-Key Orders

1. **Bill of Materials (BOM):** Send a BOM listing the required circuit board and all component parts. The BOM must include: manufacturer's part number, manufacture's name, reference designator, description, and footprint (package).

The BOM should be in a Microsoft Excel or comma-delimited format. Please highlight in red any components we will not be placing.

2. **Gerbers:** Please send us all Gerber files generated by your CAD program for pcb fabrication.
3. **Centroid data:** This is the machine file, which should include: X, Y, Theta, Side of Board (Top or Bottom), and Reference Designator.
4. **Assembly Drawings:** Are not *required* for assembly, but they do help to ensure all special PCB Assembly instructions are carried out properly.
5. **PCBs:** Please have a silkscreen layer, which indicates polarity and 1st-pin markings.

PCB Fabrication

We do not fabricate printed circuit boards internally. However, we have a relationship with several quality PCB fabrication shops to best serve our customers. Our philosophy on choosing the appropriate board house for our customers is:

- We chose the best PCB fabrication house for customer's needs. From same day turns, 2 to 20 layers, flex, controlled impedance and other board characteristics, we maintain relationships with multiple vendors and leverage their strengths given the situation.
- We order electrical testing on all PCBs as a standard process. We believe that on prototype PCBs, the last thing you want to be worried about are PCB fabrication problems. We can however, purchase PCBs without test in the effort of saving time or money.

Parts quantities

We place parts from cut strips eliminating the need to purchase reels and reducing the cost of additional inventory. We purchase 5 extra parts (or 5% minimum extra) for all discrete parts and minimal extra parts on all other materials so that there are no shortages. We may purchase up to 50% extra on 0201 components. For lead-free orders, we will order one extra pcb to ensure proper oven reflow profiling.

If a part is not available, Screaming Circuits will research possible crosses or substitutions and then contact you for approval prior to placing orders.

Terms and conditions

The parts procurement time is in addition to the assembly lead time. Turn around on the assembly process does not start until parts have been ordered and received by us. The Assembly timer starts when the last parts are received. Parts received after 12:00 Noon PST are considered received the following day.

You must be prepared to pay for all materials before Screaming Circuits proceeds with your order. Generally, we will charge your credit card within 48 hours of receiving your order.

Screaming Circuits and the Screaming Circuits logo are registered trademarks of Screaming Circuits, a division of Milwaukee Electronics Companies. This document copyright 2006.