



00 - Wazer Introduction

Introduction to the Wazer

Written By: Eric Ducret Whitescarver

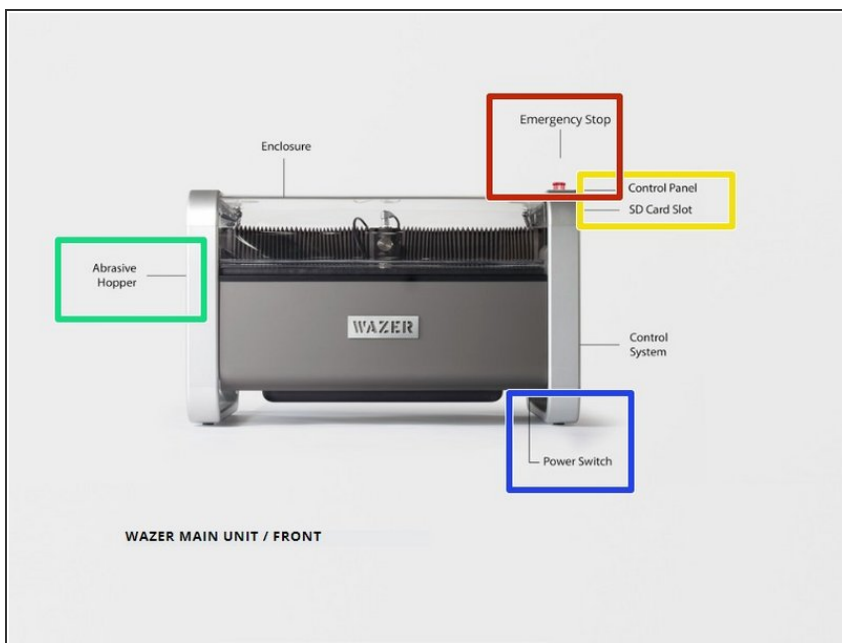


Step 1 — Introduction



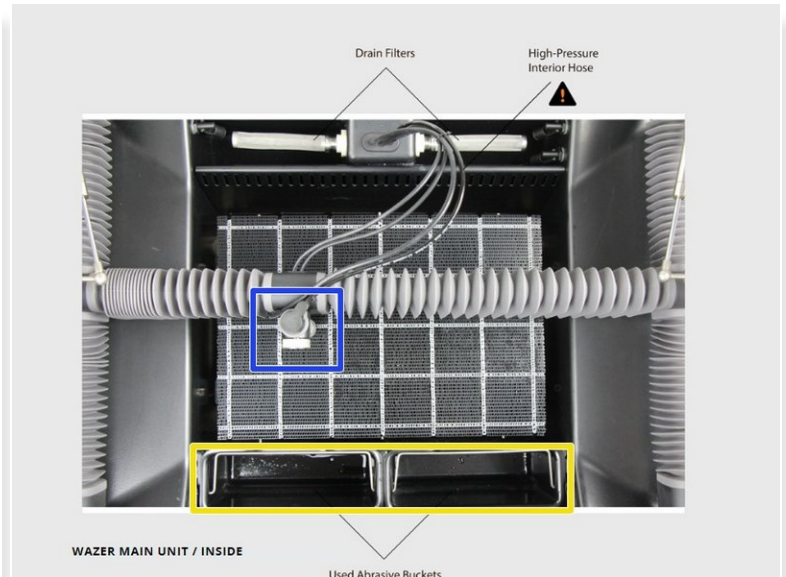
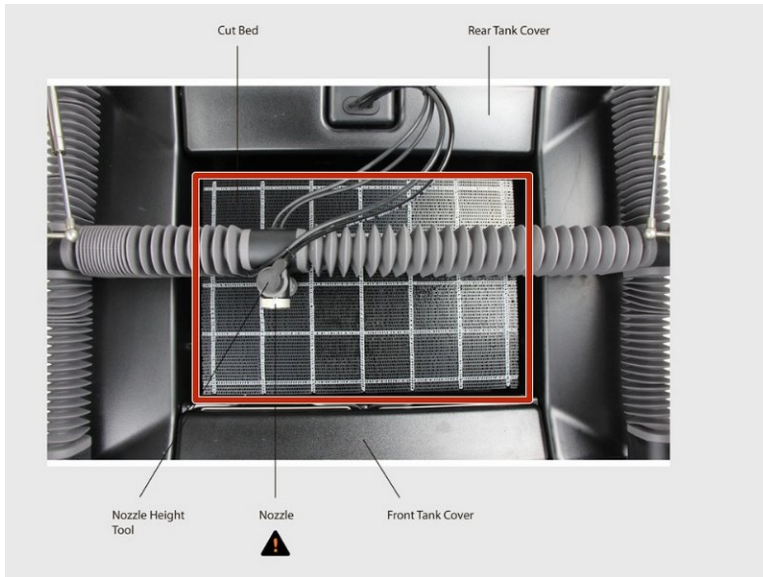
- The Wazer is a desktop waterjet capable of cutting through 0.25" mild steel, 0.5" aluminum, and 0.188" stainless steel, among many other materials
- The main components are the cutter and pump box
- It uses high pressure water with an abrasive to cut through almost any material

Step 2 — Walk Around



- Wazer power switch (under the right side of the machine)
- *i* The pump does not have a power switch and is controlled by the cutter through a data cable
- Interface and SD card slot
- Pump pressure gauge (left side of the pump, in the cabinet)
- Garnet hoppers
- E-stop

Step 3 — Walk Around



- Cutting bed
- Used garnet bins (can be accessed by simply lifting the panel that covers them)
- Cutting head

Step 4 — Cut Time Calculator



- If you want to know approximately how long your part will take to cut, you can either use the WAM software (explained in another guide) or use the cut time calculator
- [Cut time calculator](#) (also at the bottom of the wiki)
- This uses the approximate length of your cut, along with the material and number of pierces to guess the total cut time

Step 5 — Troubleshooting



- If at any point you cannot get the machine to act in a predictable way or have any questions, please inform the employee on shift
- There are also many troubleshooting guides located at the [Wazer support page](#) or by googling the specific problem you are having
- You can also check the manual, attached to the wiki or in the cabinet across from the Wazer

Step 6 — Other Options



- Your material might not be best suited to the waterjet
- If your material is too thick, Terrapin Works has a more powerful waterjet that you can submit an order for at ter.ps/papercut
- Additionally, the Epilog laser might be a better option for certain materials like acrylic since it has a much smaller kerf and cuts more quickly. The laser can also engrave materials, something a waterjet cannot do

Step 7 — Safety



- NEVER open the shroud while the waterjet is running
- Ensure the area around the waterjet and pump are dry. This makes it easier to see if any leaks are forming
- Always wear the proper PPE when operating the machine
 - Hair tied up, long pants, closed-toed shoes
- NEVER leave the waterjet unattended

Step 8 — Get Started!



- Great! Now that you have had an introduction to the Wazer, you can start prepping your first cut