Feed Bin
The feed bin is designed to hold 6 lbs of seed to feed into the system. The seed flows from the bottom of the bin into the feed flow controller.

Feed Controller Jacket
The feed controller jacket is designed to house the feed controller. It connects the feed bin to the popping chamber.

Feed Controller
The feed controller is designed to control the flow rate of amaranth seeds into the popping chamber. It fits inside the feed controller jacket.

Collection System
The collection system redirects popped seeds out of the popping chamber and into a collection bin.

Popping Chamber
The popping chamber is designed to pop the amaranth seeds. The seeds come in from the feed controller and the seeds exit via the collection system.

Combustion Chamber
The combustion chamber is where the propane burns to heat air. It has an inlet for the propane and another for the igniter.

Fan Assembly
The fan assembly is designed to feed air into the combustion chamber and the popping chamber.

Igniter
The igniter is designed to light the propane. It is a simple piezoelectric lighter that is inserted directly into the combustion chamber.

Insulation
The insulation is designed to keep heat inside the pipe and to protect the user from burns.

Structure
The structure is designed to support all of the other components of the popper. It is simple to assemble and disassemble as it is entirely held together with nuts and bolts.