

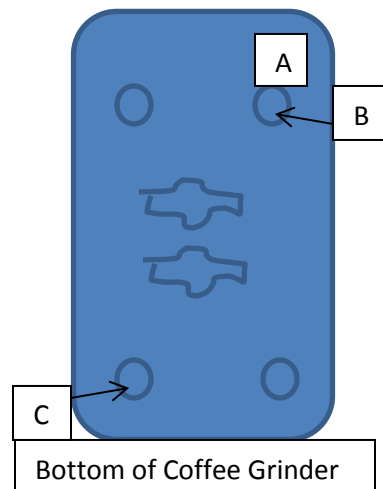
Device TearDown 2:

Some prequel notes

- Bubblewrap
- Compactability
- Rotor isn't exposed
- It will not run unless lid and bucket are in place
- Blade has a safety cover BUT it can run without the safety blade – IMPROVEMENT NEEDED!!!
 - o User can never touch the blade while rotating (b/c of the lid-lock mechanism)
- Very compact and simple – only 1 button
- Cord reduces tangling
- There's a cleaning brush!

3:25pm

- A rubber stoppers/ plastic encasing around bottom screws
 - prevent slipping
 - hide screws to prevent tampering
- B height = 1.2 cm, d = 0.4 cm, 4 bolt screw, B-screws have wedge in them (on the tip) – why is this? (this was also in the Black&Decker blender last week → manufacturing optimization by standardizing screw types?)
- C manufacturer's screw – hard to take out once again
-



- We followed the power flow/energy flow during tear down

- More sketches again
- D held transformer in place
- Transformer splits up
- F – springs
- Plastic casing over entire structure, with (useless – except for aesthetics) stainless steel outside
- G → different type of screw, longer with very pointed tip – again, need to search up tip types
 - o Attached to motor to hold in place (looking from the top at the bottom)
 - o Motor must be safer, or at least held in place better – holes are steeper, requires longer screw
- 2 plastics held motor in place
 - o Rubber against motor around nut and bolt
- I=B=P outside all screws are the same
- More sketches(will scan these)
- Power button uses a spring
- Coffee built up around ring of grinder (clog and 1a – refers to another sketch)
- More sketches
- Motor sealed → screws coming from outside, hard to get to
- Stainless steel – could come off, very thin, also has sharp edges – used for aesthetics
- Safety: transformer – uses 120 volts in general
- Improvement – conical shapes in grinder to prevent build up of coffee and also to improve efficiency
- Improvement – we had to hold down the power button → change it to a switch? OR one where we do not need to hold it down?
- Ridges against outside of plastic encasing
- >= 24 screws in total on the device
- Way too many parts, some of them appear difficult to mold → why would the manufacturer do this?
- 3 parts in actual grinder
- Black and decker grinder → compare prices between their different grinders and figure out why this is more expensive. More powerful?
- \$40 in retail
- IMPROVEMENT – make everything to be stainless steel (the entire encasing)

For report:

- Define terms
 - o Efficiency
 - o Safety for whom?
 - o In relation to manufacturer?
 - o In relation to end user?
 - o Aesthetics – to whom? According to what