3d Printer All Module List

- 12*8 + 4 Magnets
- 1mm allen key for small extruder bolt Hot end
- Allen Key – Motor Pulley (size?)
- 1.5 mm Allen wrench - thermistor grub
- 2 mm Allen Key - most bolts on body
- 5 mm Allen Key
- 1/4" inch drill bit
- 3mm drill bit or ⅛" drill bit
- 6mm drill bit
- 3mm Phillips screwdriver
- 3mm flat head screwdriver
- 3mm Ceramic screwdriver
- 6mm Phillips head screwdriver
- 7 mm wrench for nozzle
- JB Kwik Weld
- Cordless Electric Drill (Power Drill)
- Oil spray
- Scissors
- Side cutters
- Solder
- Soldering iron
- Super glue
- Hex Bit for Power Drill
- Box Cutter or Razor Blade
- Hacksaw

- Heat gun for heat shrink
- [8"] Heat Shrink, ¼"
- Labeling tape (masking tape)
- Marker (for labeling)
- Vice grips
- Kapton tape
- Wire strippers with cutter
- Wood backing for drilling
- 2 Clamps for breaking plexiglass
- Usb cable
- Computer with Arduino IDE
- Current Marlin Firmware on computer or USB
- Calipers for layout?
- Scrap parts for shimming the screen
- Multimeter (voltmeter)
- Disposable surface for JB Weld mixing
- Rag
- Apple Cider Vinegar or other vinegar or soapy water
- Gloves
- Printing filament
- Welding wire or acupuncture needles
- Zip Ties
- Protective Glasses
- Pliers, Needle Nose
- Sandpaper, 220 grit or fine grit
- Electrical Tape
- Piece of Measuring Tape to set motor pulley

Tools - Frame + Axes

Frame

- ❏ Rag
- ❏ Apple Cider Vingear or other vinegar or soapy water
- ❏ 12 Magnetic Holders
- ❏ 12*8 Magnets
- ❏ Piece of Cardboard that's larger than the frame size
- ❏ JB Qwik Weld
- ❏ Power Drill
- ❏ 1/4" inch drill bit
- ❏ Gloves
- ❏ Protective Glasses

Axes

- ❏ Power Drill
- ❏ Hex Bit for Power Drill
- ❏ Box Cutter or Razor Blade
- ❏ Allen Key – Metric 5
- ❏ Allen Key – Metric 2 (is this for the motor pulley?)
- ❏ Pair of Needle nose Pliers
- ❏ Piece of Sandpaper - 220 grit or fine grit
- ❏ Phillips Screwdriver
- ❏ Spray of oil
- ❏ Scissors for electrical tape
- ❏ Electrical Tape
- ❏ 3 mm + 6 mm drill bits to clean up the plastic prints with imperfections
- ❏ Small Screwdriver with flathead to wedge out belt pegs
- ❏ Piece of Measuring Tape to set motor pulley
- ❏ Super glue for end stops
- ❏ JB Qwik Weld for bed holder

Tools - Extruder + Endstops + Cable Chain

Extruder

- ❏ Voltmeter
- ❏ Soldering Iron
- ❏ Solder
- ❏ Heat gun for heat shrink
- ❏ [8"] Heat Shrink, ¼"
- ❏ 1 Cable Tie
- ❏ Side cutters
- ❏ 2 mm Allen key - most bolts on body
- ❏ 3 mm Philips screwdriver
- ❏ Razor (for cleaning parts and Teflon cut)
- ❏ 4 mm drill bit - ream holes
- ❏ 3 mm drill bit - clean holes
- ❏ 6 mm drill bit - clean holes
- ❏ Wire strippers with wire cutters
- ❏ Labeling tape (masking tape)
- ❏ Marker (for labeling)
- ❏ 1mm allen key for small extruder bolt

Hot end

- ❏ 7 mm wrench for nozzle
- ❏ Vice grips
- ❏ 1.5 mm Allen wrench - thermistor grub
- ❏ 2 mm Allen wrench for heater cartridge
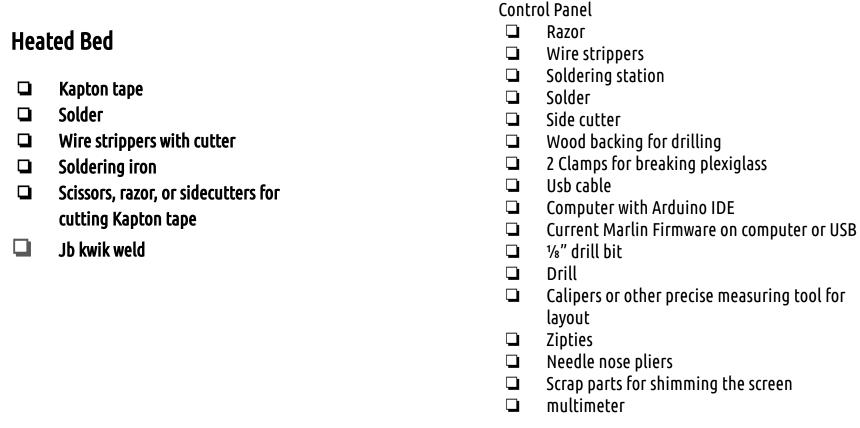- ❏ Razor for teflon cutting

Endstops

- ❏ Crazy Glue
- ❏ Side cutters

Cable Chain

- ❏ Crazy glue
- ❏ Zip ties (12)
- ❏ Electrical tape (for tidying wiring)
- ❏ Heat gun

Tools - Heated Bed and Control Panel

Heated Bed

- ❑ Kapton tape
- ❑ Solder
- ❑ Wire strippers with cutter
- ❑ Soldering iron
- ❑ Scissors, razor, or sidecutters for cutting Kapton tape
- ❑ Jb kwik weld

Control Panel

- ❑ Razor
- ❑ Wire strippers
- ❑ Soldering station
- ❑ Solder
- ❑ Side cutter
- ❑ Wood backing for drilling
- ❑ 2 Clamps for breaking plexiglass
- ❑ Usb cable
- ❑ Computer with Arduino IDE
- ❑ Current Marlin Firmware on computer or USB
- ❑ ⅛" drill bit
- ❑ Drill
- ❑ Calipers or other precise measuring tool for layout
- ❑ Zipties
- ❑ Needle nose pliers
- ❑ Scrap parts for shimming the screen
- ❑ multimeter

Tools: Final Assembly & Final Touches

Assembly:
- ❏ Super glue
- ❏ Cordless Electric Drill
- ❏ 6mm Flat head screwdriver
- ❏ 6mm Phillips head screwdriver
- ❏ Pliers
- ❏ Hex key
- ❏ JB Kwik Weld
- ❏ Disposable surface for JB Weld mixing
- ❏ Gloves
- ❏ SHarpie
- ❏ Zip ties
- ❏ 3mm flat head screwdriver
- ❏ 3mm Ceramic screwdriver
- ❏ Labeling tape
- ❏ Laptop for testing

Assembly Troubleshooting:
- ❏ Voltmeter
- ❏ Heat gun
- ❏ Welding wire or acupuncture needles

Final Touches:
- ❏ Hex key
- ❏ 6mm Flat head screwdriver
- ❏ 6mm Phillips head screwdriver
- ❏ Super glue
- ❏ Zip ties
- ❏ Electrical tape
- ❏ Printing filament
- ❏ Spool to hold filament (optional)