

## PRESS Initial Test Bench Setup BOM

- Pressure control valve (analog)
  - <https://www.mcmaster.com/6763k82-6763K821>
  - \$44.94
- On/off flow valve
  - <https://www.mcmaster.com/5754t22>
  - \$16.04
- 3x Air outlet for on/off valve
  - <https://www.mcmaster.com/7880t131>
  - \$3.18X3=9.54
- Outlet for air-inlet coupling
  - <https://www.mcmaster.com/7880t173>
  - \$5.38
- 2-2 Electronic solenoid valve
  - <https://www.mcmaster.com/61975k413>
  - \$29.22
- 6x ¼" NPT fitting for air supply (female)
  - <https://www.mcmaster.com/7880t114>
  - 
  - 6X \$2.43=\$14.58
- 1/8" OD Air Tubing for Bimbas (50ft)
  - <https://www.mcmaster.com/5195t61>
  - \$13.50
- Anodized Aluminum Right-Angle Flow Manifold
  - \$18.36
  - 5469K123
- High-Pressure Brass Pipe Fitting
  - \$1.85
  - 50785K23
- 4x Plugs for 1/8" Tubing
  - <https://www.mcmaster.com/5779k439>
  - 4x\$2.40=\$9.60
- Inlet Fitting for Air Manifold
  - \$3.29
  - 5111K86
- 3/8" OD Air Tubing for Inlet Air
  - <https://www.mcmaster.com/5195t67>
  - \$9.70
- 2x T-track fixture
  - <https://www.mcmaster.com/1850a11>
  - 2X\$5.57=11.14
- 8x ¼"-20 x 2" hex head bolts
  - Can probably find at a hardware store
  - <https://www.mcmaster.com/93306a550>
  - \$6.30 from Moscow building supply

- 8x ¼"-20 wing nut
  - Can probably find at a hardware store
  - <https://www.mcmaster.com/90866a029>
  - \$9.99 from moscow building supply
- 20x #8 x 0.75" Pan head wood screws
  - Can probably find at a hardware store
  - <https://www.mcmaster.com/90031a197>
  - \$3.20 from Moscow building
- 2" depth x 10" wide board, about 40" long
  - Will find in-town – Cody
  - \$9.79 from Moscow Building supply

Total For McMaster Without taxes and without shipping:\$195.00

Total for McMaster without taxes and with shipping:\$

Total For Moscow Building supply:\$26.08

- Power supply (12V 15A)
  - [https://www.amazon.com/YETAIDA-Supply-Regulated-Universal-Transformer/dp/B07R8VDS5Z/ref=sr\\_1\\_1\\_sspa?crd=CX03E93VSPS5&keywords=12v+15a+power+supply&qid=1569967676&s=gateway&sprefix=12v+15a+%2Caps%2C184&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFJQThLRVNXSks1gmZW5jcnlwdGVkSWQ9QTAYMzcnNzQyVE1ZTlhUVUcySDM2JmVuY3J5cHRIZEFkSWQ9QTA2Njc0MDQyVkVTNENDQTFJV01UJndpZGdldE5hbWU9c3BfYXRmJmFidGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==](https://www.amazon.com/YETAIDA-Supply-Regulated-Universal-Transformer/dp/B07R8VDS5Z/ref=sr_1_1_sspa?crd=CX03E93VSPS5&keywords=12v+15a+power+supply&qid=1569967676&s=gateway&sprefix=12v+15a+%2Caps%2C184&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFJQThLRVNXSks1gmZW5jcnlwdGVkSWQ9QTAYMzcnNzQyVE1ZTlhUVUcySDM2JmVuY3J5cHRIZEFkSWQ9QTA2Njc0MDQyVkVTNENDQTFJV01UJndpZGdldE5hbWU9c3BfYXRmJmFidGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)
- On/off switch with fuse for 120V AC
  - [https://www.amazon.com/URBEST-Module-Switch-Socket-IEC320/dp/B00ME5YAPK/ref=sr\\_1\\_1?crd=WH93D57YLZD3&keywords=power+supply+switch+with+fuse&qid=1569967298&s=gateway&sprefix=power+supply+switch%2Caps%2C182&sr=8-1](https://www.amazon.com/URBEST-Module-Switch-Socket-IEC320/dp/B00ME5YAPK/ref=sr_1_1?crd=WH93D57YLZD3&keywords=power+supply+switch+with+fuse&qid=1569967298&s=gateway&sprefix=power+supply+switch%2Caps%2C182&sr=8-1)
- Plug/cable for on/off power supply switch (15A)
  - [https://www.amazon.com/Tripp-Lite-Computer-IEC-320-C13-P007-006/dp/B0027JRMDO/ref=sr\\_1\\_3?crd=1KSUEHLUIYLHP&keywords=14+awg+universal+power+cord&qid=1569967539&s=gateway&sprefix=universal+14++power+cord%2Caps%2C200&sr=8-3](https://www.amazon.com/Tripp-Lite-Computer-IEC-320-C13-P007-006/dp/B0027JRMDO/ref=sr_1_3?crd=1KSUEHLUIYLHP&keywords=14+awg+universal+power+cord&qid=1569967539&s=gateway&sprefix=universal+14++power+cord%2Caps%2C200&sr=8-3)
- 2x 10-32 x 1" SHCS
  - Obtained from machine shop
- 2x #10 washers
  - Obtained from machine shop

- 2x #10-32 nuts
  - Obtained from machine shop
- 2x 3D-printed uprights
  - Will print – Andrew
- 2" depth x 10" wide board, about 40" long
  - Will find in-town – Cody
- 4x 3D-printed securing tabs
  - Will print – Andrew
- Adhesive rubber feet standoffs
  - Can probably find at a hardware store
  - <https://www.mcmaster.com/95495k24-95495k241>
  -
  
- Any electronics hardware such as connectors, wires, and circuitry are much appreciated!