



## Parts List

*(there is a PDF of this available for download and print)*

### The Parts You Need

Lets get down to the nuts and bolts now. These are the parts you need to build your BrewTroller Control Panel. I will do my best to give you links to where you can buy, what the cost is, and how many of them you will need.

These parts lists have to be generic, so YMMV (your mileage may vary). Use these as a guide to help you!

On these parts lists, I have made some assumptions, and have provided links to sites other than BrewTroller's own website. I can not guarantee anything purchased elsewhere.

It also goes without saying that this DIY approach is at your own risk. You are playing with high voltages or explosive gasses. Please make sure you are comfortable with what you are doing, or seek professional help assembling the parts you do not understand.

### ***Basic BrewTroller Control Panel - Electric Brewing***

If you are looking to do the bare minimum, or have a very limited budget, these are the things you need to do a BASIC control Panel for an Electric Brewery. This is assuming 2 heating elements.

	# Needed	Cost Per	Total	Link
Phoenix Control Board	1	\$225.00	\$225.00	<a href="http://BrewTroller.com">BrewTroller.com</a>
I2CLCD Controller	1	\$29.99	\$29.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Rotary Encoder	1	\$6.99	\$6.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
20x4 LCD	1	\$11.99	\$11.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Power Switch	1	\$5.99	\$5.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
12v Power Supply	1	\$24.99	\$24.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Enclosure	1	\$69.99	\$69.99	<a href="http://goo.gl/f4ZKff">http://goo.gl/f4ZKff</a>
SSR	4	\$11.99	\$47.96	<a href="http://BrewTroller.com">BrewTroller.com</a>
Heatsink	4	\$11.99	\$47.96	<a href="http://BrewTroller.com">BrewTroller.com</a>
M12 Panel Mount	1	\$12.99	\$12.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
M12 Splitter	2	\$9.99	\$19.98	<a href="http://BrewTroller.com">BrewTroller.com</a>
M12 Cable 2M	1	\$12.99	\$12.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
4" Temp Probes	3	\$20.99	\$62.97	<a href="http://BrewTroller.com">BrewTroller.com</a>
Power Cord	1	\$3.99	\$3.99	<a href="http://goo.gl/cxVqma">http://goo.gl/cxVqma</a>
LCD Bezel	1	\$9.99	\$9.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
I2C Cable	1	\$5.00	\$5.00	<a href="http://goo.gl/CBXQnL">http://goo.gl/CBXQnL</a>
Asstd Wires and Screws	1	\$10.00	\$10.00	
Total			\$608.77	

#### ***Basic BrewTroller Control Panel - Gas Brewing***

If you are looking to do the bare minimum, or have a very limited budget, these are the things you need to do a BASIC control Panel for an Electric Brewery. This is assuming 2 burners.

	# Needed	Cost Per	Total	Link
Phoenix Control Board	1	\$225.00	\$225.00	<a href="http://BrewTroller.com">BrewTroller.com</a>
I2CLCD Controller	1	\$29.99	\$29.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Rotary Encoder	1	\$6.99	\$6.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
20x4 LCD	1	\$11.99	\$11.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Power Switch	1	\$5.99	\$5.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
12v Power Supply	1	\$24.99	\$24.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Enclosure	1	\$69.99	\$69.99	<a href="http://goo.gl/f4ZKff">http://goo.gl/f4ZKff</a>
Double Relay Module	1	\$8.66	\$8.66	<a href="http://goo.gl/oyt9TV">http://goo.gl/oyt9TV</a>
Gas Solenoid	2	\$68.95	\$137.90	<a href="http://goo.gl/s9nsU5">http://goo.gl/s9nsU5</a>
M12 Panel Mount	1	\$12.99	\$12.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
M12 Splitter	2	\$9.99	\$19.98	<a href="http://BrewTroller.com">BrewTroller.com</a>
M12 Cable 2M	1	\$12.99	\$12.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
4" Temp Probes	3	\$20.99	\$62.97	<a href="http://BrewTroller.com">BrewTroller.com</a>
Power Cord	1	\$3.99	\$3.99	<a href="http://goo.gl/cxVqma">http://goo.gl/cxVqma</a>
LCD Bezel	1	\$9.99	\$9.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
I2C Cable	1	\$5.00	\$5.00	<a href="http://goo.gl/CBXQnL">http://goo.gl/CBXQnL</a>
Asstd Wires and Screws	1	\$10.00	\$10.00	
Total			\$659.41	

#### *BrewTroller Add-Ons and Accessories*

If you are looking to expand on what your BrewTroller can do, these are the parts you can lean on to expand the capabilities and really turn your Brewery into something special!!

	Cost Per	Link
2 Way Motorized Ball Valves	\$34.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
3 Way Motorized Ball Valves	\$122.99	<a href="http://goo.gl/5Su0nX">http://goo.gl/5Su0nX</a>
12v Flashing Buzzer	\$7.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
22mm LED Indicators	\$5.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
3 Way Switches	\$5.99	<a href="http://BrewTroller.com">BrewTroller.com</a>
Pressure Sensor (Volume Measurement)	\$28.99	<a href="http://goo.gl/Ofw5kT">http://goo.gl/Ofw5kT</a>
RGBIO Module	\$36.99	<a href="http://goo.gl/DkCitb">http://goo.gl/DkCitb</a>
PID Module	\$39.95	<a href="http://goo.gl/72I2h9">http://goo.gl/72I2h9</a>
BrewTroller Web App	Free	<a href="http://BrewTroller.com/webapp">BrewTroller.com/webapp</a>

### Conclusion

Again, these are just a small idea of what you can do, and what is available. These are the commonly used parts. With a little dreaming and ingenuity, you can add a lot of features, sensors, and capabilities to your BrewTroller!

We at BrewTroller would be happy to help you answer any questions, just contact us on the website. There is also a user forum available, and a BrewTroller Users Group and and BrewTroller Page on Facebook you can use to connect with other users!

Cheers!

