

## Parts for 11 Gallon eBIAB build

### Kettle

#### Home Depot

Qty	Part #	Description	Cost	URL	Comment
1	100531485	44 qt. Stainless Steel Stockpot with Perforated Basket and Lid	\$91.00	<a href="http://www.homedepot.com/p/Bayou-Classic-44-qt-Stainless-Steel-Stockpot-with-Perforated-Basket-and-Lid-1144/100531485">http://www.homedepot.com/p/Bayou-Classic-44-qt-Stainless-Steel-Stockpot-with-Perforated-Basket-and-Lid-1144/100531485</a>	

#### Bargain Fittings

Qty	Part #	Description	Cost	URL	Comment
1		Whirlpool / Side pickup fitting kit - Compression adapter fittings: 1/2" male npt x 1/2" tube - Standard option	\$ 19.99	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;product_id=151">http://www.bargainfittings.com/index.php?route=product/product&amp;product_id=151</a>	main valve pickup
1		KEG weldless bulkhead kit - VALVE: : 3 piece valve - SS - HOSE BARB for valve:: <NONE> - INSIDE OPTION: : 45 turn	\$ 21.95	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250">http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250</a>	main valve
1		KEG weldless bulkhead kit - VALVE: : <NONE> - HOSE BARB for valve:: <NONE> - INSIDE OPTION: : 90 turn	\$ 11.00	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250">http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250</a>	for recirculation return in lid
1		KEG weldless bulkhead kit - VALVE: : <NONE> - HOSE BARB for valve:: <NONE> - INSIDE OPTION: : COUPLING - Standard option	\$ 11.00	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250">http://www.bargainfittings.com/index.php?route=product/product&amp;path=46&amp;product_id=250</a>	for RTD
1		1/2" NPT HEX NIPPLE STAINLESS	\$ 6.00	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;path=36_39_58&amp;product_id=121">http://www.bargainfittings.com/index.php?route=product/product&amp;path=36_39_58&amp;product_id=121</a>	for recirculation return in lid

#### Northern Brewer

Qty	Part #	Description	Cost	URL	Comment
1	7314	Brewmaster Filter Bag	\$ 5.99	<a href="http://www.northernbrewer.com/shop/brewmaster-filter-bag-214-214.html">http://www.northernbrewer.com/shop/brewmaster-filter-bag-214-214.html</a>	
1	40857	Male Stainless Quick Disconnect x Male 1/2" NPT	\$ 11.99	<a href="http://www.northernbrewer.com/shop/male-stainless-quick-disconnect-x-male-1-2-npt.html">http://www.northernbrewer.com/shop/male-stainless-quick-disconnect-x-male-1-2-npt.html</a>	for valve

### Recirculation

#### Northern Brewer

Qty	Part #	Description	Cost	URL	Comment
2	40855	Female Stainless Quick Disconnect x 1/2" Barb	\$ 35.98	<a href="http://www.northernbrewer.com/shop/female-stainless-quick-disconnect-x-1-2-barb.html">http://www.northernbrewer.com/shop/female-stainless-quick-disconnect-x-1-2-barb.html</a>	
2	UP064	Blichmann QuickConnector 1/2" straight barb	\$ 27.98	<a href="http://www.northernbrewer.com/shop/blichmann-quickconnector-fittings.html">http://www.northernbrewer.com/shop/blichmann-quickconnector-fittings.html</a>	
1	UPCH8116	PRECUT 1/2" ID Silicone Tubing - 10 ft	\$ 29.99	<a href="http://www.northernbrewer.com/shop/1-2-id-silicone-high-temp-tubing.html">http://www.northernbrewer.com/shop/1-2-id-silicone-high-temp-tubing.html</a>	
4	K213	Worm Gear Clamp #2 stainless 1/4" - 7/8" OD	\$ 5.96	<a href="http://www.northernbrewer.com/shop/s-s-worm-gear-clamp-2-1-4-7-8-od.html">http://www.northernbrewer.com/shop/s-s-worm-gear-clamp-2-1-4-7-8-od.html</a>	
1	40184	March 809HS-PL Pump - 6 foot power cord and plug	\$ 179.99	<a href="http://www.northernbrewer.com/shop/march-809hs-pl-pump-6-foot-power-cord-and-plug.html">http://www.northernbrewer.com/shop/march-809hs-pl-pump-6-foot-power-cord-and-plug.html</a>	
1	40857	Male Stainless Quick Disconnect x Male 1/2" NPT	\$ 11.99	<a href="http://www.northernbrewer.com/shop/male-stainless-quick-disconnect-x-male-1-2-npt.html">http://www.northernbrewer.com/shop/male-stainless-quick-disconnect-x-male-1-2-npt.html</a>	for valve on pump

#### Bargain Fittings

1	1/2" NPT STAINLESS STEEL 3 PIECE BALL VALVE	\$ 10.95	<a href="http://www.bargainfittings.com/index.php?route=product/product&amp;keyword=rd=valv&amp;category_id=0&amp;product_id=128">http://www.bargainfittings.com/index.php?route=product/product&amp;keyword=rd=valv&amp;category_id=0&amp;product_id=128</a>	valve on pump
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**Electronics**

**Home Depot**

Qty	Part #	Description	Cost	URL	Comments
1	E989R-UPC	Carlton 12 in. x 12 in. x 6 in. Junction Box	\$ 33.60	<a href="http://www.homedepot.com/p/Carlton-12-in-x-12-in-x-6-in-Junction-Box-E989R-UPC/100404149">http://www.homedepot.com/p/Carlton-12-in-x-12-in-x-6-in-Junction-Box-E989R-UPC/100404149</a>	
1		14 gauge stranded wire - green	\$ 6.47	<a href="http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Single-Conductor-Stranded-THHN-Electrical-Wire-Green-112-3405A/202564778?N=5yc1vZbm7vZ1z112x0Z1z113yu">http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Single-Conductor-Stranded-THHN-Electrical-Wire-Green-112-3405A/202564778?N=5yc1vZbm7vZ1z112x0Z1z113yu</a>	you can definitely get this wire cheaper, this is just an example
1		14 gauge stranded wire - black	\$ 6.47	<a href="http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-THHN-Single-Conductor-Electrical-Wire-Black-112-3401A/202564770?keyword=25+ft.+14-Gauge+Single-Conductor+Stranded+black">http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-THHN-Single-Conductor-Electrical-Wire-Black-112-3401A/202564770?keyword=25+ft.+14-Gauge+Single-Conductor+Stranded+black</a>	
1		14 gauge stranded wire - white	\$ 6.47	<a href="http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Single-Conductor-Stranded-THHN-Electrical-Wire-White-112-3402A/202564774">http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Single-Conductor-Stranded-THHN-Electrical-Wire-White-112-3402A/202564774</a>	
1		14 gauge stranded wire - red	\$ 6.47	<a href="http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Stranded-Wire-Red-112-3403A/202564776">http://www.homedepot.com/p/Cerrowire-25-ft-14-Gauge-Stranded-Wire-Red-112-3403A/202564776</a>	
1		10 gauge stranded wire - green	\$ 17.37	<a href="http://www.homedepot.com/s/10%2520gauge%2520stranded%2520wire%2520green%2509%250910%2520gauge%2520stranded%2520wire?NCNI-5">http://www.homedepot.com/s/10%2520gauge%2520stranded%2520wire%2520green%2509%250910%2520gauge%2520stranded%2520wire?NCNI-5</a>	
1		10 gauge stranded wire - black	\$ 17.37	<a href="http://www.homedepot.com/p/Southwire-50-ft-10-Gauge-Stranded-THHN-Wire-Black-22973236/204812488">http://www.homedepot.com/p/Southwire-50-ft-10-Gauge-Stranded-THHN-Wire-Black-22973236/204812488</a>	
1		10 gauge stranded wire - white	\$ 17.37	<a href="http://www.homedepot.com/p/Southwire-50-ft-10-Gauge-Stranded-THHN-Wire-Black-22973236/204812488">http://www.homedepot.com/p/Southwire-50-ft-10-Gauge-Stranded-THHN-Wire-Black-22973236/204812488</a>	
1		10 gauge stranded wire - red	\$ 32.77	<a href="http://www.homedepot.com/p/Southwire-100-ft-10-1-Stranded-THHN-Wire-Red-22975737/204812519">http://www.homedepot.com/p/Southwire-100-ft-10-1-Stranded-THHN-Wire-Red-22975737/204812519</a>	
1		10 gauge terminal spade - 50 pack	\$ 6.97	<a href="http://www.homedepot.com/p/Tyco-Electronics-Spade-Vinyl-12-10-AWG-Stud-8-10-50-Clam-CPGI-2-1838180-0-50/202204309?N=5yc1vZbm6yZ5ec">http://www.homedepot.com/p/Tyco-Electronics-Spade-Vinyl-12-10-AWG-Stud-8-10-50-Clam-CPGI-2-1838180-0-50/202204309?N=5yc1vZbm6yZ5ec</a>	
1		10 gauge female disconnect - 10 pack	\$ 2.99	<a href="http://www.homedepot.com/p/Tyco-Electronics-Female-Disconnect-Fully-Insulated-Nylon-12-10-AWG-250-Series-10-Clam-CPGI-4-520448-2-10/202204296?N=5yc1vZbm6yZ5ec">http://www.homedepot.com/p/Tyco-Electronics-Female-Disconnect-Fully-Insulated-Nylon-12-10-AWG-250-Series-10-Clam-CPGI-4-520448-2-10/202204296?N=5yc1vZbm6yZ5ec</a>	
1		14 gauge terminal spade - 75 pack	\$ 6.97	<a href="http://www.homedepot.com/p/Tyco-Electronics-Spade-Vinyl-16-14-AWG-Stud-8-10-75-Clam-CPGI-2-1838176-0-75/202204282?N=5yc1vZbm6yZ5ec">http://www.homedepot.com/p/Tyco-Electronics-Spade-Vinyl-16-14-AWG-Stud-8-10-75-Clam-CPGI-2-1838176-0-75/202204282?N=5yc1vZbm6yZ5ec</a>	
1		14 gauge female disconnect - 10 pack	\$ 3.18	<a href="http://www.homedepot.com/p/Tyco-Electronics-Female-Disconnect-Fully-Insulated-Nylon-16-14-AWG-250-Series-10-Clam-CPGI-3-350820-2-10/202204295?N=5yc1vZbm6yZ5ec">http://www.homedepot.com/p/Tyco-Electronics-Female-Disconnect-Fully-Insulated-Nylon-16-14-AWG-250-Series-10-Clam-CPGI-3-350820-2-10/202204295?N=5yc1vZbm6yZ5ec</a>	

**Mouser**

Qty	Part #	Description	Cost	URL	Comments
20	538-19144-0015	Terminals SPADE TONGUE TERM 16-14 AWG	\$ 4.00	<a href="http://www.mouser.com/ProductDetail/Molex/19144-0015/?qs=%2fha2pyFaduJyegmrGw3fk8Nms5pwWUm96cGoTZExsl502521TaNmNg%3d%3d">http://www.mouser.com/ProductDetail/Molex/19144-0015/?qs=%2fha2pyFaduJyegmrGw3fk8Nms5pwWUm96cGoTZExsl502521TaNmNg%3d%3d</a>	smaller terminal spades that fit in switches, LEDs

**Digi-Key**

Qty	Part #	Description	Cost	URL	Comments
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3	F015-ND	Fuse Holder 250V 15A PNL MNT	\$	12.96	<a href="http://www.digikey.com/product-search/en/circuit-protection/fuseholders/655422?k=F015-ND">http://www.digikey.com/product-search/en/circuit-protection/fuseholders/655422?k=F015-ND</a>	
5	F2519-ND	Fuse 10A Glass 3AB 3AG	\$	1.90	<a href="http://www.digikey.com/product-detail/en/0312010.HXP/F2519-ND/777235">http://www.digikey.com/product-detail/en/0312010.HXP/F2519-ND/777235</a>	
10	F2508-ND	Fuse 1A Glass 3AB 3AG	\$	3.53	<a href="http://www.digikey.com/product-detail/en/0312001.HXP/F2508-ND/777224">http://www.digikey.com/product-detail/en/0312001.HXP/F2508-ND/777224</a>	
5	RSMF1JT1K00CT-ND	1W 1Kohm Resistor	\$	1.85	<a href="http://www.digikey.com/product-detail/en/RSMF1JT1K00/RSMF1JT1K00CT-ND/2021838">http://www.digikey.com/product-detail/en/RSMF1JT1K00/RSMF1JT1K00CT-ND/2021838</a>	
1	Z3128-ND	Emergency Stop Button - Switch Push DPST 10A 110V	\$	36.54	<a href="http://www.digikey.com/product-search/en?vendor=0&amp;keywords=Z3128-ND">http://www.digikey.com/product-search/en?vendor=0&amp;keywords=Z3128-ND</a>	you can get cheaper but this one is pretty nice :)

#### High Gravity Brew

Qty	Part #	Description	Cost	URL	Comments	
1	HE5500TL	Heating Element - 5500 Watt SS Twist-lock Plug	\$	79.95	<a href="http://www.highgravitybrew.com/store/pc/Heating-Element-5500-Watt-SS-p2669.htm">http://www.highgravitybrew.com/store/pc/Heating-Element-5500-Watt-SS-p2669.htm</a>	
1	HE-002	Weldless Heating Element Kit	\$	19.95	<a href="http://www.highgravitybrew.com/store/pc/Weldless-Heating-Element-Kit-p2652.htm">http://www.highgravitybrew.com/store/pc/Weldless-Heating-Element-Kit-p2652.htm</a>	o-ring was too big

#### McMaster-Carr

Qty	Part #	Description	Cost	URL	Comments	
1	9396K39	25 pack DASH 218 Silicone O-ring - 25 pack	\$	10.46	<a href="http://www.mcmaster.com/#9396k39/=vdc035">http://www.mcmaster.com/#9396k39/=vdc035</a>	silicone o-ring for element since one with high gravity kit was way too big
1	91771A115	100 pack 18-8 Stainless Steel Flat Head Phillips Machine Screw 4-40 Thread, 1" Length	\$	6.33	<a href="http://www.mcmaster.com/#91771a115/=vdo673">http://www.mcmaster.com/#91771a115/=vdo673</a>	used to connect stuff to case
1	91099A167	18-8 Stainless Steel Flat Undercut Head Phillips Machine Screw 4-40 Thread, 1/2" Length	\$	5.18	<a href="http://www.mcmaster.com/#91099a167/=vdo77f">http://www.mcmaster.com/#91099a167/=vdo77f</a>	
1	90715A005	Type 316 Stainless Steel Nylon-Insert Hex Locknut 4-40 Thread Size, 1/4" Width, 9/64" Height	\$	8.13	<a href="http://www.mcmaster.com/#90715a005/=vdo81g">http://www.mcmaster.com/#90715a005/=vdo81g</a>	
1	90107A005	Type 316 Stainless Steel Flat Washer Number 4 Screw Size, 0.125" ID, 0.312" OD	\$	3.37	<a href="http://www.mcmaster.com/#90107a005/=vdo8uw">http://www.mcmaster.com/#90107a005/=vdo8uw</a>	

#### Auber

Qty	Part #	Description	Cost	URL	Comments	
1	SYL-2352	1/16 DIN PID Temperature Controller (For SSR)	\$	46.50	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=1&amp;products_id=3">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=1&amp;products_id=3</a>	
1	MGR-1D4840	40A SSR	\$	19.00	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_0&amp;products_id=30">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_0&amp;products_id=30</a>	
1	HS40ETL	External Mount Heat Sink for 40A SSR (Rectangular)	\$	21.00	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_0&amp;products_id=348">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_0&amp;products_id=348</a>	
1	CN-PBC302-120V	Contactora, 2 pole, 30A, 120V Coil	\$	16.50	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_1&amp;products_id=129">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=2_3_1&amp;products_id=129</a>	
1	5258-SS	Leviton 120V 15A US Socket, Panel Mount, NEMA 5-15R Round Cut Selector Switch, 2-Position Maintained 2 NO, 22mm [Power Voltage	\$	8.50	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_4_3&amp;products_id=409">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_4_3&amp;products_id=409</a>	
3	SW4	Option 120V AC/DC]	\$	3.45	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_3_2&amp;products_id=241">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_3_2&amp;products_id=241</a>	

1	IND-1	LED Indicator, 22 mm, 120/240V [Power Voltage Option 120V AC/DC, LED Color Option Red]	\$	32.90	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_33&amp;products_id=248">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_33&amp;products_id=248</a>
1	L14-30P-F	Leviton 125/250V 30A NEMA L14-30P Locking Flanged Inlet	\$	32.90	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_43&amp;products_id=460">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_43&amp;products_id=460</a>
1	L6-30R-F	Leviton 240V 30A NEMA L6-30R Flanged Outlet Locking Receptacle	\$	33.80	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_43&amp;products_id=462">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=7_43&amp;products_id=462</a>
1	PT100-L1001/2NPT	Liquid tight RTD sensor, 4 in, 1/2 NPT Thread - Cable Option - 8 ft Braided Cable with mating RTD connector/cable	\$	46.35	<a href="http://www.auberins.com/index.php?main_page=product_info&amp;cPath=20_15&amp;products_id=246">http://www.auberins.com/index.php?main_page=product_info&amp;cPath=20_15&amp;products_id=246</a>

**Amazon**

2	PN2512	Blue Sea Systems 12 Circuit 30A Terminal Block	\$	26.52	<a href="http://www.amazon.com/gp/product/B000K2K6L6/ref=oh_aui_detailpage_o01_s01?ie=UTF8&amp;psc=1">http://www.amazon.com/gp/product/B000K2K6L6/ref=oh_aui_detailpage_o01_s01?ie=UTF8&amp;psc=1</a>	homedepot terminals will work, i just like these since they are a bit beefier
4	PN9217	Blue Sea Systems Terminal Block Jumper for 30A Terminal Blocks, Pack of 5	\$	17.44	<a href="http://www.amazon.com/gp/product/B000K2IL11/ref=oh_aui_detailpage_o1_s00?ie=UTF8&amp;psc=1">http://www.amazon.com/gp/product/B000K2IL11/ref=oh_aui_detailpage_o1_s00?ie=UTF8&amp;psc=1</a>	
1		Reliance Controls PC3020 20-Foot 30 Amp L14-30 Generator Power Cord for Up to 7,500-Watt Generators	\$	67.89	<a href="http://www.amazon.com/gp/product/B000HS0HKI/ref=oh_aui_detailpage_o03_s00?ie=UTF8&amp;psc=1">http://www.amazon.com/gp/product/B000HS0HKI/ref=oh_aui_detailpage_o03_s00?ie=UTF8&amp;psc=1</a>	power cable from wall outlet to control box

**Special Tools**

1		Greenlee 730BB-1-1/4 Standard Round Knockout Punch Unit, 1-1/4-Inch	\$	79.47	<a href="http://www.toolfetch.com/greenlee-730bb-1-1-4-standard-round-knockout-punches.html?utm_source=google&amp;utm_medium=cse&amp;utm_term=20673g&amp;gclid=CJLmhtSk8MCFtLjAody1UALA">http://www.toolfetch.com/greenlee-730bb-1-1-4-standard-round-knockout-punches.html?utm_source=google&amp;utm_medium=cse&amp;utm_term=20673g&amp;gclid=CJLmhtSk8MCFtLjAody1UALA</a>	for element
1		Greenlee 71BB Standard Round Knockout Punches, 7/8 inch (for 1/2 inch NPT)	\$	44.06	<a href="http://www.toolfetch.com/greenlee-71bb-standard-round-knockout-punches.html?utm_source=google&amp;utm_medium=cse&amp;utm_term=22563g&amp;gclid=Cl3W35Cmg8MCFWjKtAodhEUA3Q">http://www.toolfetch.com/greenlee-71bb-standard-round-knockout-punches.html?utm_source=google&amp;utm_medium=cse&amp;utm_term=22563g&amp;gclid=Cl3W35Cmg8MCFWjKtAodhEUA3Q</a>	for 1/2" npt parts - spigot, temp probe and recirculation return

Other Specialized Tools (that I already had) : dremel with router and metal grinding parts, drill and step drill bit, wiring stripper and crimper, gfci tester

**Total \$ 1,336.66**