



MoreInstructions™

Homebrew Draft System

Cornelius Kegs

Kit Includes:

- 5 Gallon Rebuilt Keg
- 5lb Empty CO2 Tank
- Dual Gauge Regulator
- Beer & Gas Line Assemblies



Instructions For Use:

A) Secure a tall glass of beer as this can be a thirsty job. This will be the last time you have to pour from a can or a bottle. Beer on tap is moments away.

1) Connect your dual gauge regulator to the 5 lb CO₂ tank with a crescent wrench. Do not overtighten the regulator as you may split the built-in gasket if too much force is applied. The gauge that goes to 2000 lbs psi is your tank gauge and tells you how much gas is left in your tank. A normal 5 lb CO₂ tank will hold from 600–1000 lbs psi of pressure when filled, depending on the temperature the tank is stored in. The gauge that goes to 60 psi is your outgoing gauge and tells you what amount of pressure is being released into the keg.

2) You are now ready to adjust the pressure on the tank. Open the valve on top of the CO₂ tank by turning the valve counter clockwise. Now find the silver knob in the middle of the regulator body. This is called the adjustment knob and is in a loose position for shipment. Using your hand, thread in the adjustment knob clockwise until the needle on the low pressure gauge (0–30 psi) begins to read. This adjustment is good for now, we will fine tune the pressure later.

3) On the rubber top of your keg, near the valves (also called posts or body connects), the words “In” and “Out” are stamped. Attach the grey quick connect to the “In” valve for the CO₂. Attach the black quick connect to the “Out” valve for the beverage.

4) After everything is connected, you will need to fine tune your CO₂ pressure. Usually 8–12 lbs psi is considered the norm, but different beers might have different requirements and ultimately your preference will rule. You increase the outgoing pressure by turning in the adjustment knob. In reverse, by loosening the knob, you decrease the pressure.

5) To fill your keg with your homebrew you will need to clean and sanitize it first. A general pre-sanitizing cleaning of the keg can be performed by scrubbing the inside with a scotch brite pad or carboy brush (if you can't reach into the keg). Remember that you always must clean before you sanitize. Do not use chlorine to sanitize stainless steel as the bleach can pit the stainless steel. Star San (CL26), IO Star (CL36), or Sani Clean (CL27) are the recommended sanitizers. We also recommend that you remove the valving and lids and sanitize those as well.

6) After filling your keg and reattaching the lid flush the headspace with CO₂ by filling with CO₂ and releasing the valve on top of the keg lid. Do this 3–5 times to effectively remove the oxygen from the keg.

Carbonation

Carbonation is influenced by both temperature and pressure. The lower the temperature of the liquid, the higher CO₂ pressure, and the more surface area for contact between the liquid and CO₂, the easier CO₂ goes into solution. Thus the fastest way to carbonate your beer is to chill it down as much as possible, turn the CO₂ to about 30 lbs p.s.i., and shake it for around 3 minutes. A better quick method is to use the chart below. Select your temperature and desired volume of CO₂ (2.2–2.7 is a good range to start with) and shake the keg until no more CO₂ goes into solution. For those who want to carbonate like the pros (quickly, with precision, and without shaking), we do sell a carbonation stone. It hooks to the inside of the CO₂ in valve and hangs to the bottom of the keg. The stainless steel stone releases thousands of .5–2 micron bubbles of CO₂, creating so much surface area that the CO₂ is instantly absorbed into solution until saturation is reached at whatever level of carbonation you choose.

The paragraph above explains how to carbonate fast when you need it quick, but just like bottling, your beer is going to benefit from a week or two of aging. What most people who keg do, is hook the keg up at whatever pressure CO₂ they are going to dispense at, on average around 8–12 psi. Leave it on, in the refrigerator, for 1–2 weeks after which time the beer will be carbonated. Our personal method of carbonation is to keep our refrigerator at around 38 degrees. We hook up the gas line assembly to the keg, adjust pressure to 10 psi, and leave it for one week.

A keg of beer can be thought of as having two parts: the beer (liquid) and the headspace (gas). These two parts want to equalize the pressure ... your beer will keep accepting CO₂ until the pressures are equal. If you leave your flat beer with 30 psi of CO₂ in the headspace, you will eventually end up with fizz as the beer keeps accepting CO₂ into solution in an attempt to equalize the pressures. If you have a carbonated beverage of any sort (beer, soda, seltzer) and you have no pressure in the headspace the CO₂ comes out of solution to try and equalize the pressure between the liquid and the gas (headspace). You witness this every time you buy a 2 liter soda bottle and it goes flat in a few days. So the idea is to equalize them at the carbonation level you prefer. The easiest way to do this is to carbonate at the pressure you dispense. It may take a couple of days longer, but your beer ages and clears and dispenses very nicely without foaming problems.

Serving your beer: After drawing off the first few pints, all the sediment around the dip tube in the bottom will be drawn off and you will start to get clear beer. A nice benefit of the keg is since it is constantly aging at a very cold temperature, the chill haze you see when you chill a bottle of homebrew will settle out within a few weeks.

To Read the Carbonation Chart:

First choose the average temperature of the beer on the left side of the chart and then find the level of carbonation you want in the center of the chart. Once you have determined the carbonation level, follow the column up to the top of the chart to find your PSI setting.

Carbonation Chart

		Pounds per Square Inch (PSI)														
Degrees in Fahrenheit	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	33	2.23	2.33	2.43	2.53	2.63	2.74	2.84	2.96	3.06	3.15	3.25				
	34	2.18	2.28	2.38	2.48	2.58	2.69	2.79	2.9	3.0	3.09	3.19				
	35	2.14	2.24	2.34	2.43	2.52	2.63	2.73	2.83	2.93	3.02	3.12	3.22			
	36	2.09	2.19	2.29	2.38	2.47	2.57	2.67	2.77	2.86	2.96	3.05	3.15	3.24		
	37	2.04	2.14	2.24	2.33	2.42	2.52	2.62	2.71	2.8	2.9	3.0	3.09	3.18	3.27	
	38	2.0	2.1	2.2	2.29	2.38	2.48	2.57	2.66	2.75	2.85	2.94	3.03	3.12	3.21	
	39	1.96	2.06	2.15	2.25	2.34	2.43	2.52	2.61	2.7	2.8	2.89	2.98	3.07	3.16	3.25
	40	1.92	2.01	2.1	2.2	2.3	2.39	2.47	2.56	2.65	2.75	2.84	2.93	3.01	3.1	3.19
	41	1.88	1.97	2.06	2.16	2.25	2.34	2.43	2.52	2.6	2.7	2.79	2.88	2.96	3.05	3.14
	42	1.85	1.94	2.02	2.12	2.21	2.3	2.39	2.48	2.56	2.65	2.74	2.83	2.91	3.0	3.09
	43	1.81	1.9	1.99	2.08	2.17	2.26	2.34	2.43	2.52	2.61	2.69	2.78	2.86	2.95	3.04
	44	1.78	1.87	1.95	2.04	2.13	2.22	2.3	2.39	2.47	2.56	2.64	2.73	2.81	2.9	2.99
	45	1.75	1.84	1.91	2.0	2.08	2.17	2.26	2.34	2.42	2.51	2.6	2.69	2.77	2.86	2.94
	46	1.71	1.8	1.88	1.96	2.04	2.13	2.22	2.3	2.38	2.47	2.55	2.64	2.72	2.81	2.89
	47	1.68	1.76	1.84	1.92	2.0	2.09	2.18	2.26	2.34	2.42	2.5	2.59	2.67	2.76	2.84
	48	1.65	1.73	1.81	1.89	1.96	2.05	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.71	2.79
	49	1.62	1.7	1.79	1.86	1.93	2.01	2.1	2.18	2.25	2.34	2.42	2.5	2.58	2.67	2.75
	50	1.59	1.66	1.74	1.82	1.9	1.98	2.06	2.14	2.21	2.3	2.38	2.46	2.54	2.62	2.7
	51	1.57	1.64	1.71	1.79	1.87	1.95	2.02	2.1	2.18	2.26	2.34	2.42	2.49	2.57	2.65
	52	1.54	1.61	1.68	1.76	1.84	1.92	1.99	2.06	2.14	2.22	2.3	2.38	2.45	2.53	2.61
	53	1.51	1.59	1.66	1.74	1.81	1.89	1.96	2.03	2.1	2.18	2.26	2.34	2.41	2.49	2.57
	54		1.56	1.63	1.71	1.78	1.86	1.93	2.0	2.07	2.15	2.22	2.3	2.37	2.45	2.52
	55		1.53	1.6	1.68	1.75	1.82	1.89	1.97	2.04	2.12	2.19	2.26	2.33	2.4	2.47
	56		1.5	1.57	1.65	1.72	1.79	1.86	1.93	2.0	2.08	2.15	2.22	2.29	2.36	2.43
	57			1.54	1.62	1.7	1.77	1.83	1.9	1.97	2.04	2.11	2.18	2.25	2.32	2.39
	58			1.51	1.59	1.67	1.74	1.8	1.87	1.94	2.01	2.08	2.15	2.21	2.28	2.35
	59				1.56	1.64	1.71	1.77	1.84	1.91	1.98	2.04	2.11	2.17	2.24	2.31
60				1.54	1.62	1.69	1.75	1.82	1.88	1.95	2.01	2.08	2.14	2.21	2.27	
		Volumes Of Co2														

More Info on Kegging

For more in-depth information on kegging, please see our manual on “Kegging” located in the MoreManuals section of our learning center at www.MoreBeer.com.