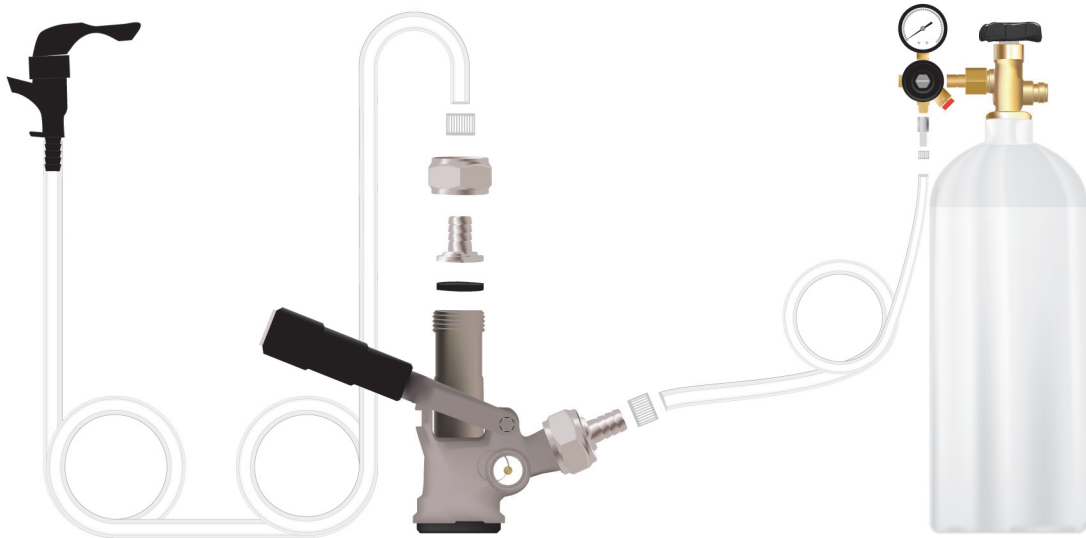


ECONOMY FRIDGE CONVERSION KIT

Official NORTHERN BREWER Instructional Document



THE ECONOMY FRIDGE CONVERSION KIT CONTAINS:

- 5 lbs CO₂ cylinder (empty –see note below)
- Single-gauge CO₂ regulator
- Sanke tap
- Hex nut
- 1/4" barbed tail piece
- Neoprene washer
- Plastic picnic faucet
- 3 ft of 1/4" ID food-grade beverage tubing
- 5 ft of 3/16" ID food-grade beverage tubing
- Hose clamps (3)
- Barbed swivel nut

NOTE: By federal law, CO₂ cylinders must be shipped empty – you'll need to have them filled locally. Look under "Gas Suppliers" in the yellow pages.

THE CO₂ CYLINDER

The best way to measure CO₂ usage is to weigh the cylinder, and subtract the cylinder's tare weight, or the weight of the empty cylinder. The tare weight is usually stamped into the cylinder and is prefixed by the letters "TW".

A shutoff valve is located at the top of the cylinder. Keep this valve closed until you attach a regulator to the cylinder.

THE REGULATOR

The regulator has one low pressure gauge. The low pressure gauge, located on the top of the regulator body, measures the internal regulator pressure. The regulator will deliver more pressure to the keg until it is equal to the regulator's internal pressure. You can increase the pressure in the keg by turning the regulator's adjusting screw clockwise. You can decrease the regulator's internal pressure (but not the keg pressure) by turning the adjusting screw counterclockwise.

The regulator also contains a pressure relief valve that will help to protect the regulator from damage if the internal regulator pressure gets too high.

WARNING

WORKING WITH CARBON DIOXIDE IS POTENTIALLY VERY DANGEROUS. CO₂ CYLINDERS ARE UNDER VERY HIGH PRESSURE. IF THE VALVE WERE TO BREAK OFF OF THE CYLINDER, IT WOULD BECOME AN UNGUIDED MISSILE, POSSIBLY CAUSING INJURY OR DEATH. FOR THIS REASON IT IS IMPORTANT THAT YOU IMMOBILIZE CO₂ CYLINDERS BY SECURING THEM WITH CHAINS, BUNGEE CORDS, ETC. ADDITIONALLY, A CO₂ GAS LEAK IN AN ENCLOSED AREA COULD DISPLACE OXYGEN AND CAUSE ASPHYXIATION. ALWAYS TEST GAS HANDLING SYSTEMS FOR LEAKS.

ECONOMY FRIDGE CONVERSION KIT

Official NORTHERN BREWER Instructional Document

ASSEMBLING THE COMPONENTS

Equipment needed:

- Adjustable crescent wrench
- Standard flathead screwdriver

GAS LINE

1. Use the wrench to attach the barbed swivel nut to the male threaded fitting on the regulator—the barbed part of the swivel nut should be protruding. The nut should be snug, but do not overtighten.
2. Attach one end of the 3 ft section of 1/4" ID tubing to the barbed fitting on the swivel nut. Leave a small amount of space between the end of the hose and the nut, so that the nut can move freely.
3. Slide a hose clamp over the hose and position it over the barbed fitting. Use a screwdriver to tighten the clamp and securely fasten the hose to the barbed swivel nut.

KEG COUPLER

Opposite the black lever on the Sanke tap is post labelled "Gas In;" this post should already have a barbed tail piece and hex nut attached. The remaining post is the "Liquid Out." Assemble the remaining pieces in the following order: 1/4" barbed tail piece goes into the hex nut (barbed end should protrude), followed by the black neoprene washer. Use a wrench to tighten the hex nut assembly on the male threads of the "Liquid Out" post. The nut should be snug, but do not overtighten.

- **NOTE:** if the hex nut assembly on your keg coupler is already attached, use a wrench to make sure it's tight before proceeding.

LIQUID LINE

1. Attach one end of the 5 ft section of 3/16" ID tubing to the 1/4" barbed tail piece on the "Liquid Out" side of the keg coupler. A useful trick is to soak the end of the hose in very hot water to make it soft and pliable—it should slide right over the barb. Leave a small amount of space between the end of the hose and the hex nut, so that the nut can move freely.
2. Slide a hose clamp over the hose and position it over the barbed fitting. Use a screwdriver to tighten the clamp down and securely fasten the hose to the barb.
3. Attach the barbed end of the plastic picnic faucet to the other end of the 3/16" ID tubing.

GAS CYLINDER AND REGULATOR

Place the nylon washer (included with the regulator) in the female threaded port of the regulator's cylinder coupling nut. Attach the regulator to the CO₂ tank. Tighten firmly with a wrench.

CONNECTING THE SYSTEM

Slide the last hose clamp over the 1/4" ID gas line that is attached to the regulator. Attach the free end of the 1/4" ID gas line to the "Gas In" post of the keg coupler. Position the hose clamp over the barb. Use a screwdriver to tighten the clamp down and securely fasten the hose to the barb.

CLEANING

Clean the keg coupler, liquid line and faucet before and after tapping each keg using Beer Line Cleaner or a no-rinse sanitizer. Dirty lines can cause foaming and off-flavors in the beer.

DISPENSING BEER

IMPORTANT! MAKE SURE THAT THE GAS FLOW IS SHUT OFF (VALVE ON THE CO₂ TANK IS CLOSED) AND THAT THE VALVE ON THE PICNIC FAUCET IS CLOSED BEFORE PROCEEDING.

1. Attach the keg coupler to the keg.
2. Use the pressure relief valve on the side of the keg coupler (beneath the "Gas In" post) to bleed off the excess pressure inside the keg.
3. Open the valve on the CO₂ tank to start gas flow; use the adjusting screw on the front of the regulator to set the pressure to between 3 and 5 psi.
4. Take a moment to check all threaded connections on your system for gas leaks. Even a small leak will drain your CO₂ cylinder, and in some cases it could even be dangerous.
5. Open the valve on the faucet to pour a beer. Adjust dispensing pressure as needed using the adjustment screw on the regulator.