Homemade Comebrewing Congress by Tony Profera of by Tony Profera of Little N.C. won the Great

Editor's Note: Tony Profera of
Charlotte, N.C. won the Great
Gator Tail Brewing Gadget
Extravaganza at the AHA's
National Homebrewers Conference
in Orlando in June. Here he
shares some of his simple homeshares some of his simple homemade gadgets-sure to make
you say "Why didn't I think
of that?" -to help make the
brew day a little easier.



one.

No-Nonsense Bottle Filler

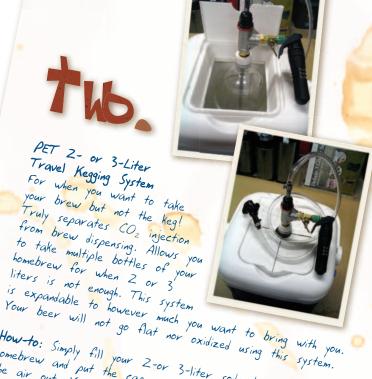
No-Nonsense Bottle Filler

Use to fill bottles from Cornelius style kegs for competition entry, etc. No reason not use to fill bottles from Sessions, parties, etc. No reason not homebrew club meetings, brew sessions, parties, etc. No reason not homebrew club meetings, brew sessions, parties, etc. No reason not onebrew club meetings, brew sessions, parties, etc. No reason not onebrew club meetings, brew sessions, parties, etc. No reason not not one to enter your kegged homebrews into competition entry,

How-to: Chill bottles first. Set Cornelius style keg of homebrew to How-to: Chill bottles first. Set Cornelius style keg of homebrew to make, easy 3/8". This gadget is very simple and inexpensive to make, easy 3/8" to use, and cleanup is a snap. Simply insert a length of rigid 3/8" to use, and cleanup is a snap. Simply insert a length of rigid 3/8" to use, and cleanup is a snap. Simply insert a length of rigid 3/8" white nylon tube into a cobra tap and fill your bottles. Remove tube to use, and cleanup is a snap. Simply insert a length of rigid 3/8" white nylon tube into a cobra tap while filling, then cap on top of foam, just like the breweries do! while filling, then cap on top of foam, just like the breweries do! while filling, then cap on top of foam, just like the cobra tap softles filled with this method after six months show no signs of while filling, then cap on top of foam, just like the breweries do! white filling, then cap on top of foam, just like the breweries do! white filling, then cap on top of foam, just like the breweries do! white filling, then cap on top of foam, just like the breweries do! white filling, then cap on top of foam, just like the breweries do! white filling, then cap on top of foam, just like the breweries do! of the cobra tap head. Note: Oo not force nylon tube too far into the cobra tap head. head, or it will hold the tap open even after you let go (beer oxidation. Note: Oo not force nylon tube too far into the cobra tap head. head, or it will hold the tap open even after you let go (beer oxidation. Note: Oo not force nylon tube too far into the cobra tap head. head, or it will hold the tap open even after you let go (beer oxidation. Note: Oo not force nylon tube too far into the cobra tap head. head, or it will hold the tap open even after you let go (beer oxidation.) Fit should be firm inside the cobra tap head.

Parts list:

- •16"x3/8" rigid nylon tube
 (Note: This is the cloudy
 white semi-rigid tubing you
 can get at the big box home
 improvement store, or perhaps
 your local homebrew shop. Take
 your cobra tap with you when
 you go to buy your tubing to
 ensure that this tubing fits
 snugly in the end of the tap.)
- Cornelius keg with your homebrew on CO₂ (pressure released to approximately 3-5 PSI).
- Cobra (aka "picnic") tap connected to keg
- Sanitized 12- or 22-ounce brown glass flip-top bottles (chilled to brew temperature is best)
- Sanitized bottle caps
- Bottle capper
- Stopper (optional, to differentiate tubing)



How-to: Simply fill your 2-or 3-liter soda bottles with your the air out. You will know all the air is out when the foam dispense. The valve between the loose cap. Tighten the foam dispense. The valve between the carbonator or your bottles can be installed without losing CO2.



three.

Carboy Orier

Oo you let your carboy sanitizer drip dry like the no-rinse sanitizer manufacturers suggest? This C" piece of scrap PVC pipe makes it easier, and even works with carboys that have handles installed. I use this simple OIY tool every time I brew.

How-to: Cut a S- or C-inch length of scrap C" sewer pipe. Round the inside edge with a router using a round-over bit, or hand file until smooth (that's what I did). Make several small cuts on the bottom to allow drainage. Note: Do not use the carboy handles to support the weight of a carboy at any time. I was able to find a scrap piece of unused sewer pipe so this gadget cost me nothing to make.



Parts list:

- 2-liter (or 3-liter) cleaned and sanitized soda bottle
- 1/2" FPT brass or stainless steel (SS) tee
- Several O-rings—fit to size
- Nylon garden hose washer
- 14.5" SS tube (scavenged from a Corny keg dip tube—use the curved end)
- 1/2" MPT black liquid watertight strain relief fitting
- Cobra ("picnic") tap with 38" of 3/8" OD clear beer line hose
- 1/2"x3/8" brass adapter
- Carbonator and CO₂ cartridges to fit (typically available from your local homebrew shop)
- 3/8" male flare x 3/8" MPT brass needle valve (this valve allows you to use normal CO₂ bottles and regulators as well as the carbonator, and also can close the system off to allow CO₂ cartridge changes without letting air into your homebrew).
- Small cooler to keep your homebrew at the right serving temperature. Note: the cooler I used has a 1 1/2" hole cut into the lid to allow the soda bottle to protrude. A taller cooler would allow the entire system to be contained inside.
- 3" length of clear 3/8" OD (put on beer end of SS tube to allow 2- or 3-liter bottle use)
- 3/8" hose clamps (Oetiker type SS clamps recommended)
- Teflon tape

Parts list:

● 6" diameter x 6" long x 1/2"

thick PVC pipe



Wallpaper Tray Sanitizer and Storage Box

It's easy to sanitize long items such as spoons, auto siphons and racking canes using a store

bought wallpaper tray, but these trays can be flimsy and prone to spillage and cracking. Fortifying the tray with a wooden homebuilt pine box solves these problems and makes the trays far easier to use and more durable.

How-to: A simple 1"x4" pine scrap enclosure with feet added props the box above any water that gets on the brew table and supports the center of the tray. Cutout handles on the ends make it easy to pick up, move and empty the tray. Cut plexiglass can be added as a cover to keep dust and nasties out between brew sessions. Attach some bungee cord on each end to keep the plexiglass lid in place during storage. Be sure that all equipment is dry prior to storage. Note: I still use a bucket to sanitize hoses.



Parts list:

- ●2 1"x 4"x33" fir or pine boards (note: a 1 x 4 board is actually 3 1/2" wide)
- 4 1"x 2"x 6 5/16" wood cross braces (align with indentures on the bottom of the wallpaper tray)
- •33"x7 1/4" plastic wallpaper trav
- •33"x 8"x3/16" plexiglass (as a cover)
- •2 small eyebolts to attach the bungee cord
- •2 lengths 3/8"x18" bungee cord (to hold the plexiglass in place during storage)
- Wood glue
- ●1 1/2" nails or wood screws (pre-drill holes to avoid wood splitting)



PET Carbonation Cap

These caps are great to fill 1-, 2- or 3-liter PET bottles for taking your homebrew on the road, or to give beer to friends. There are commercial

versions but you can save big when you make them yourself. These are more durable than the commercial versions and at only 20 percent of the cost are an

easy OIY project. If you give a friend a bottle of your homebrew with one of these caps and don't get it back, you are only out about \$2!

How-to: Carefully drill a hole into a 1-, 2- or 3-liter plastic bottle cap. Unscrew the tire valve parts and install the tire valve with the seal on the inside of the cap. Tighten until a seal is made with the cap. Fill your sanitized PET soda bottle 3/4 full from your keg. Put one of these caps loosely on the bottle. Squeeze the bottle until all the air is out and the foam starts to come out the cap (this is good). Tighten the cap and pressurize with COz expanding the bottle. Use about 14 psi to carbonate. You may need to pressurize the bottle several times as COz is absorbed into the beer. If the beer is already carbonated set the pressure to about 7 PSI dependent on the style of beer. Note: The ball valve installed on the standard air chuck hose insures there will be no loss of COz through leakage.

Parts list:

- 2- or 3-liter PET soda bottle cap
- Universal tubeless tire clamp in tire valve (NAPA #90-432)
- CO₂ bottles with attached regulator and
- 1/4" FPT x 1/4" FPT brass or stainless steel ball valve (this allows the system to reliably shut off ensuring your CO_2 tank doesn't slowly drain)
 - 1/4" x 1/4" nipples
 - 1/4" MPT tire fill chuck



Tony Profera is a member of the Carolina Brewmasters in Charlotte, N.C.