Cafejo®

MAKERS OF FINE BREWERS, COFFEES AND TEAS

Model CJ-1000

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Operating Description

Congratulations on purchasing Caféjo (Model # CJ1000) single cup pod brewer. Caféjo has been designed to brew to best single cup of coffee or tea possible. It is also designed ease of use, cleanliness, long-life, trouble-free operation, repetitive heavy-duty use, and serviceability. This patented, state-of-the-art brewing system is designed for commercial use. Caféjo standards features include:

- Auto-ejection of the spent pod into a waste bin
- Bin full indictor
- Auto-opening and auto-closing of the pod loading door
- Coffee and Tea selections
- Tea pre-infusion optional mode
- Hot water spigot
- Brew Stop Feature
- Leak detection with safety water inlet solenoid valve shut off
- Independent setting controls for brew volume-temperature-pump speed
- Service diagnostics lights

Before operating this system, make sure that the brewer is installed properly (see installation instructions). The unit should always remain plugged into a 120 volt, 15-amp independent circuit.

Turning the Caféjo brewer on (on/off switch is located on the back panel) will initiate the following sequence of events:

1. The fill solenoid valve will energize letting water into the tank.
2. Once the water level reaches the "red – brew" probe, a low voltage electrical connection is made with the conductivity of the water connecting the "red – brew" probe with the "green – common" probe allowing the heating element to turn on and start preheating the water up to brew temperature (this temperature is adjustable with the "Temp" dial located on the main control board).
3. The fill solenoid valve will continue to filling water into the tank, until the water level reaches the "blue – fill" probe, then another low voltage electrical connection is made, connecting the "blue – fill" probe with the "green – common" probe, and then the solenoid valve is automatically de-energized.

The same time as the tank is filling and heating, the "upper" and "lower" pod heads motors and "stop" and "eject" push solenoids run through the following sequences of events:

1. The "upper" pod head motor is energized, in the reverse mode, sending the upper pod head to the up (standby) position
2. The "lower" pod head motor is energized, in the reverse mode, sending the "lower" pod head back to the pod eject (standby) position.
3. The "eject" push solenoid is energized twice, which pushes the spring-loaded pod ejection plunger (located in the lower pod head) twice. Forth, the "open" button, on the front of the unit, turns green.

The system is now ready to brew (the water in tank may still be heating, total heat up time approximately 3 minutes). On the front of the brewer the following buttons will be lit green: "Open" and "Hot Water". To initiate a brew cycle, press the "Open" button, and the following sequences of events will happen:

1. The "Open" button changes from green to red.
2. The "lower" pod head motor is energized, in the forward mode, sending the "lower" pod head to automatically out to open the stainless steel door and exposing where to place the coffee or tea pod.
3. The "lower" pod head motor is de-energized.
4. The "Open" button changes from red to off.
5. The "Coffee" and "Tea" buttons change from off to green.

Selecting "Coffee" will initiate the following sequence of events:

1. The "Coffee" button changes from green to blinking red.
2. The "Tea" button changes from green to off.
3. The "stop-push solenoid" and the water inlet solenoid valve are energized.
4. The "lower" pod head motor is energized, in the reverse mode, sending it and the pod to the brew position.
5. The "upper" pod head motor is energized and cams down to mate with the "lower" pod head and enclose the coffee/tea pod into heads.
6. The "stop-push solenoid" is de-energized.
7. The voltage to the "upper" pod head motor is reduced.
8. The "pump" is energized, sending hot water from the tank to the upper head, through the pod and out the exit port to the cup (the pump speed is adjustable with the "Pump" dial located on the main control board).

9. When the pump has delivered enough water out of the tank to have the water level drop off the "red – brew" probe, the pump will de-energize.
10. The water inlet solenoid valve is energized and water will enter the tank.
11. When water level in the tank will reach the "blue – fill" probe the inlet water solenoid valve will de-energize.
12. The "lower" pod head motor is energized, for a brief moment, in the forward mode, ensuring the "lower" pod head is off the "stop" solenoid pin.
13. The "lower" pod head motor is energized, in the reverse mode, sending the "lower" pod head back to the pod eject (standby) position.
14. The "eject-push solenoid" is energized twice, which pushes the spring-loaded pod ejection plunger (located in the lower pod head) twice, which automatically ejects the pod into the waste bin.
15. The "Open" button, on the front of the unit, turns green again and the system is ready to brew another cup of coffee or tea. (Note: you can also set the coffee selection into a pre-infusion mode. Pre-infusion mode setting is located on the main control board. If set in pre-infusion mode, the brewer will operate similar to the "Tea" brew mode).

Selecting "Tea" will initiate the following sequence of events:

1. The "Tea" button changes from green to blinking red.
2. The "Coffee" button changes from green to off.
3. The "Stop" push solenoid and the water inlet solenoid valve are energized.
4. The "lower" pod head motor is energized, in the reverse mode, sending it and the pod to the brew positions.
5. The "upper" pod head motor is energized and cams down to mate with the "lower" pod head and enclose the coffee/tea pod into heads.
6. The "stop-push solenoid" is de-energized.
7. The voltage to the "upper" pod head motor is reduced.
8. The "pump" is energized, sending hot water from the tank to the upper head, through the pod and out the exit port to the cup, for approximately 1 to 2 seconds.
9. The pump is de-energized for approximately 8 to 10 seconds (pre-infusion mode).

10. The pump is then re-energized and when the pump has delivered enough water out of the tank to have the water level drop off the "red-brew" probe, the pump will de-energize.
11. The water inlet solenoid valve is energized and water will enter the tank.
12. When water level in the tank will reach the "blue – fill" probe the inlet water solenoid valve will de-energize.
13. The "lower" pod head motor is energized, for a brief moment, in the forward mode, ensuring the "lower" pod head is off the "stop-push solenoid" pin.
14. The "lower" pod head motor is energized, in the reveres mode, sending the "lower" pod head back to the pod eject (standby) position.
15. The "eject-push solenoid" is energized twice, which pushes the spring-loaded pod ejection plunger (located in the lower pod head) twice, which automatically ejects the pod into the waste bin.
16. The "Open" button, on the front of the unit, turns green again and the system is ready to brew another cup of coffee or tea.

Hot Water Spigot

The hot water spigot utilizes an independent solenoid water valve and exit port from the tank to the cup. It can be activated at anytime by pressing the green hot water spigot switch on the front panel, once the desired amount of hot water has been dispensed, release the how water spigot switch to stop the flow of hot water. If you can activate the hot water switch during the brew cycle, the hot water spigot will bypass the brew heads and dispense hot water into the cup, thus diluting the cup of coffee or tea. However, this unique design will still only allow the pre-measured amount for brew water to enter the cup (for example: if your brew volume is set for 8 ounces and during the brew you dispense 3 ounces of hot water through the spigot, you will still get 8 ounces of finished product into the cup, 5 ounces of coffee or tea and 3 ounces of hot water).

Leak Detection feature

The "Leak Detection" feature will sense water in the base of the brewer in the rare case of a leak. If water is sensed in the base of the unit, the inlet

water solenoid valve will be disabled preventing any additional water from entering the system and the system will turn off the "Reset" light. This patented safety feature is to reduce the risk of property damage.

Service Diagnostics Lights

Service diagnostics lights, located on top edge of main control board, will light when the corresponding component is being energized. These diagnostics lights will help service personal trouble shoot and service your Caféjo single cup pod brewer easier and faster. Service diagnostics lights are:

- "POWER'
- "FILL" (Water Inlet Solenoid Valve)
- "WATER" (Hot Water Spigot Solenoid Valve
- "HTR" (Heating Element)
- "MOTORS" "LOWER FWD" (Forward)
- "MOTORS" "LOWER RVS" (Reverse)
- "MOTORS" "UPPER FWD" (Forward)
- "MOTORS" "UPPER RVS" (Reverse)
- "SOLENOIDS STOP"
- "SOLENOIDS EJECT"
- "PUMP"

Safe Operation & Use

When using electrical appliances, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. Do not touch hot surfaces.
3. To protect against fire, electrical shock and injury to persons do not immerse cord, plugs, or the appliance in water or other liquid.
4. Close supervision is necessary when any appliance is used by or near children.
5. Unplug from outlet when not in use and before cleaning. Allowing cooling before putting on a taking off parts, and before cleaning the appliance.

6. Do not operate any appliance with a damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair or adjustment.
7. The use of accessory attachments not recommended by the appliance manufacture may result in fire, electrical shock or injury to persons.
8. Do not use outdoors.
9. Do not let cord hang over edge of table or counter, or touch hot surfaces.
10. Do not place on or near a hot gas or electric burner, or in a heated oven.
11. Plug cord into a wall outlet and turn switch to "on". To disconnect, turn switch to "off", then remove plug from wall outlet.
12. Do not use appliance for other than intended use.
13. Do not set water fill level too high (do not adjust the "Yellow – Standby" or "Blue – Fill" probe).
14. For best operation, plug the appliance into its own independent outlet on a dedicated circuit to prevent appliance not operating properly, blowing of fuses or tripping circuit breakers.
15. This appliance is equipped with a power cord having a grounded wire with a grounding plug. Using a 3-hole properly grounded outlet must ground the appliance. In the event of an electrical short circuit, grounding reduces the risk of electrical shock.
16. If the outlet has a standard 2-prong wall outlet, it is your personal responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet.
17. No not, under any circumstances, cut or remove the third (ground) prong from the power cord or use an adapter.
18. Consult a qualified electrician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.
19. This appliance must be properly installed and located in accordance with these instructions before used.

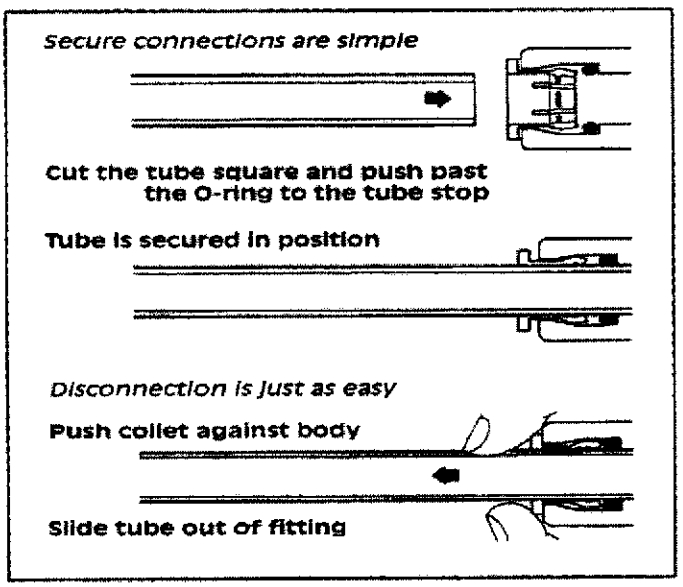
Plumbing Instructions

CAUTION: Power to the brewer must be off before proceeding with installation.

1. Flush water line before installing brewer. Brewer should be connected to **COLD WATER LINE** for best operation.
2. Install water shut-off valve in a convenient location on water line before installing water to brewer.
3. Install Scale Grenade, inline water strainer or water filter to incoming water line between shut-off valve and brewer.
4. Connect the incoming water line to the incoming main fitting on the back of the brewer.

Note: Caféjo recommends contracting a licensed plumber for all plumbing installations.

John Guest® Super Speedfit®



Brew Volume Adjustments

Caféjo measures water by volume with a series of probes. These probes control the water level in the tank and the amount of water desired for brewing.

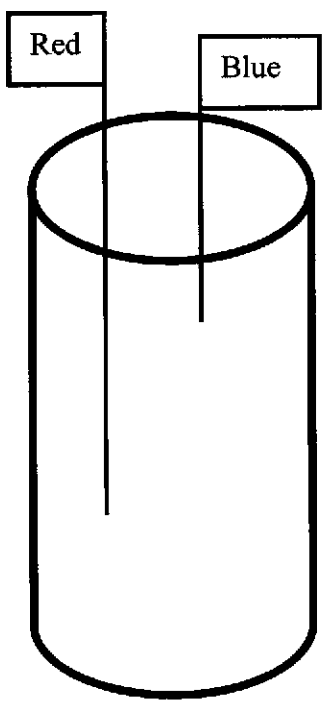
For brew volume adjustments: Use only the "RED" wire probe

The RED probe adjusts the brew volume as follows:
For **LESS** volume **pull up** on the RED wire probe in the tank.
For **MORE** volume **push down** on the RED wire probe in the tank.

DO NOT adjust the BLUE wire probe.

The RED wire probe is the brew shut-off probe. This probe tells the control board when to shut-off the outlet solenoid valve / brew water. It is also the "Heater Safety" sensor. This probe tells the control board that the tank has sufficient water, to safely energize the heater.

The BLUE wire probe is the "Brew Fill" probe.



Brewing Instructions

You now own the Caféjo® automatic, single cup pod coffee and tea brewing system – a revolution in coffee brewing. Caféjo welcomes you to its exclusive club of coffee connoisseurs.

Below is a step-by-step instruction guide to your new Caféjo® Brewing System:

Step 1. Press the green "OPEN" button.

Step 2. Place your coffee or tea pod into the lower pod head.

Step 3. Place an EMPTY cup on the brewer's drip tray.

Step 4. Select/Press either "COFFEE" or "TEA".

Step 5. The system is now brewing.

Step 6. When the brewer is finished brewing, the red "safety brewing light" will stop flashing.

Step 7. Treat yourself to a FRESH, HOT cup of coffee.

Cleaning Procedures

At the end of every business day, do the following cleaning procedures:

1. Press "Open"
2. Place one Caféjo Pod Head Cleaning Tablet into lower pod holder
3. Press "Tea"
4. After brewing with one Caféjo Pod Head Cleaning Tablet, brew system with "Coffee" mode at least three – four times to flush chemicals brew chamber
5. Check to make sure brew water is coming out clear, if not continue to brew your brewer in the "Coffee" mode until the water dispensing into the cup is perfectly clear.

The benefits of doing the cleaning procedures daily are:

1. Better tasting coffee and tea
2. Longer brewer life

Exterior Cabinet

To keep your Caféjo unit looking good and sanitary, AquaBrew recommends daily cleaning of the exterior cabinet. Use a damp sponge with antibacterial soap or a diluted bleach solution.

DO NOT get front switches wet or inside of the brewer wet.

Always unplug your Caféjo brewer from electrical outlet before cleaning exterior.

De-scaling Procedures

STOP – READ – IMPORTANT
DO NOT TURN BREWER UPSIDE DOWN
DO NOT MOVE BREWER FULL OF WATER

1. **Drain brewer through drain tube: (WATER MAY BE HOT!)**

    a. Unplug unit from electrical outlet and disconnect waterline.
    b. Remove lower back panel and locate drain tube.
    c. Remove "RED" drain plug to drain unit.
    d. Twist-off the Leak Detection wire connectors inside base of cabinet.
    e. Remove top cover.
    f. Disconnect 5-pin "Power" wire connector from main control board.
    g. Disconnect 2-pin "Thermistor" wire connector from main control board.
    h. Disconnect 5-pin "Probe" wire connector from main control board.
    i. Disconnect tubing for pump at the tank.
    j. Disconnect tubing for hot water spigot at valve.
    k. Remove seven screws that secure the upper back panel to main brewer housing.
    l. Remove, by lifting the entire subassembly, up and away from the main brewer housing.

2. Disconnect red and white wires from bottom of preheater.
3. Loosen hose clamps that secure the preheater to the brew tank (use a 5/16 nut driver).
4. Pull preheater away from brew tank.
5. Use citric acid or another food grade acid to remove any mineral deposits in the preheater (tank, tubing, and probes may be de-scaled in this manner also).
6. Flush preheater, tubing, tank, and probes with clean, fresh water.
7. Reverse this procedure to reassemble the brewer.