



Frozen Delight - Delivered Just Right!

**877-99FIESTA**

## **CDS MOTOR RUNS BACKWARDS**

Bunn has made two generations of their frozen beverage machines – the first was the CDS (CDS-2 with two hoppers and CDS-3 with three hoppers). The second generation was the Ultra (Ultra-1 with one hopper and the Ultra-2 with two hoppers). The machines are very similar, with the same frames and general operation. The main differences are the Ultra has electronic controls instead of the analog switches in a drawer in the CDS, it has differently-shaped hoppers and lids (the faucet is different on the hopper, and can be made ADA compliant), and the refrigeration system is upgraded to a newer refrigerant.

Because of the new shape of the Ultra hopper, its main processor is designed to occasionally stop the auger motor, run it in “reverse” for a short period, then return the auger to its normal rotation. When in reverse, the frozen product in the hopper will be pushed to the back of the hopper away from the faucet opening and you will not be able to dispense product during this short interval.

If an auger on your CDS machine suddenly starts running “backwards” and pushing all of the frozen product to the back of the machine away from the faucet, you’ve got a problem. Luckily, the solution is pretty simple and you can repair the problem in about five minutes using only a screwdriver. With rare exception\*, the reason the CDS motor is running backwards is because the auger motor start capacitor has failed. (\* I make a note here that it is possible that some other problem has occurred, such as wiring being moved or a plug installed backwards, but if as noted the problem starts on its own without someone first monkeying around inside the machine, it’s the capacitor.)

A capacitor is kind of like a battery in that it stores electricity for later use. The auger shaft motor turns a metal auger shaft that is hooked to the plastic screw-like auger in the hopper, and like all electric motors when it starts up it needs an extra shot of power to overcome the inertia of sitting without movement. That extra shot of power comes from the capacitor.

The auger motor capacitor is the black plastic rectangular box at the lower left corner of the motor. It is held in place with one of the screws used to hold the motor in place. To replace this capacitor, unplug the machine, remove the motor cover, remove the screw holding the capacitor in place, transfer the two wires from the old to the new capacitor, screw in the new capacitor and replace the motor cover.

We stock this capacitor in the Margarita Guys store, and it costs around \$20.00 with free Priority shipping included (usually arrives in 2 to 3 days.) The Margarita Guys Store can be found at: <http://stores.ebay.com/Margarita-Guys>

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