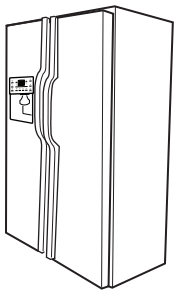
Training Bulletin

August 2006



Precise Fill Feature
GE Side-by-Side Refrigerator
Models:

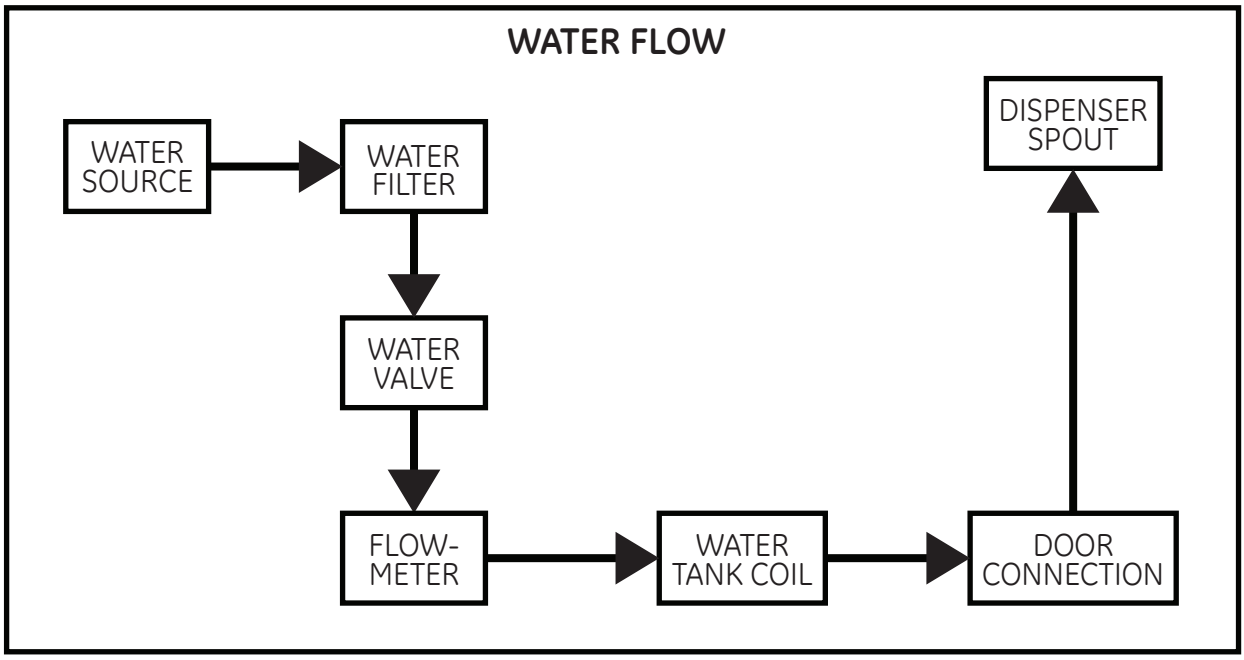
PCF25PGT	PSH25PST
PSC25PST	PSH23PST
PSC23PST	PSS26PST
PSF26PGT	PSW26PST
PSH23PGT	PSW23PST

Introduction

The 2006 model year side-by-side refrigerators listed above have a new feature on the dispenser board called Precise Fill. The Precise Fill mode allows the user to select a specific volume to be dispensed in either cups or ounces.

Overview

The Precise Fill design places a flowmeter between the water valve and the dispenser to measure water flow through the system. The flowmeter sends a signal to the main control board. The main control interprets the signal, turning the water valve off at the appropriate time. The quantity dispensed is displayed on the dispenser board.



GE Appliances
General Electric Company
Louisville, Kentucky 40225

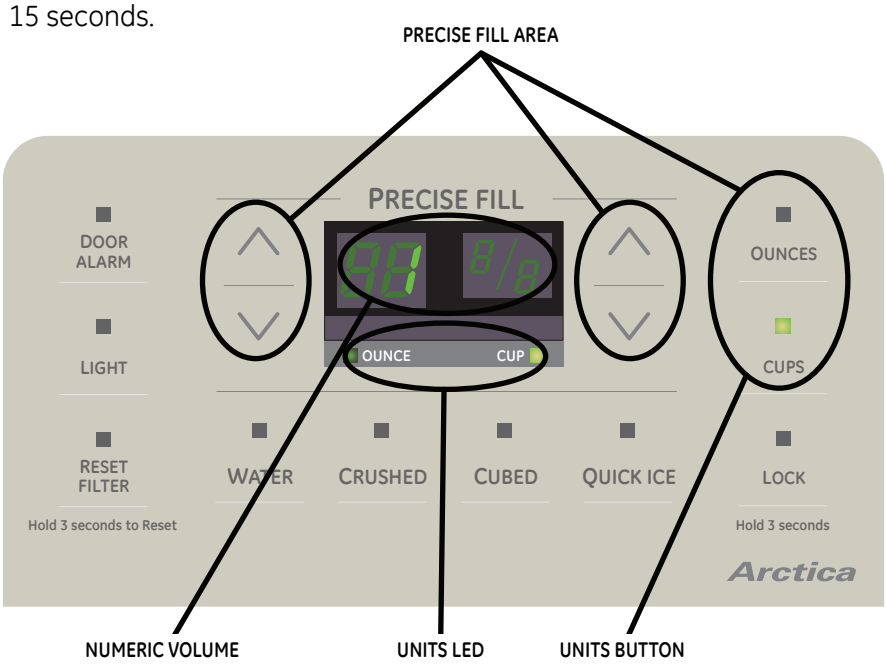
Display

The Precise Fill feature is activated by pressing any of the buttons in the Precise Fill area of the display (activating the feature by pressing ^/⌄ will not increment the display value).

Note: Display will blank if left idle for more than 15 seconds.

Upon activation, the settings last used will be displayed (i.e. Units Button LED will be illuminated, Units LED will be illuminated, and Numeric Volume will be displayed). The default display on power up will illuminate the **CUPS** Unit Button LED, the **CUP** LED, and the Numeric Volume set to "1" cup.

Pressing the **OUNCES** button will cause the **OUNCES** Unit Button LED and the **OUNCE** LED to illuminate. The Numeric Volume display will convert from cups to ounces. For example, if the display is set to **CUPS** and the Numeric Volume is set to "1" cup, pressing the **OUNCES** button will change the Numeric Volume display from "1" cup to "8" oz.

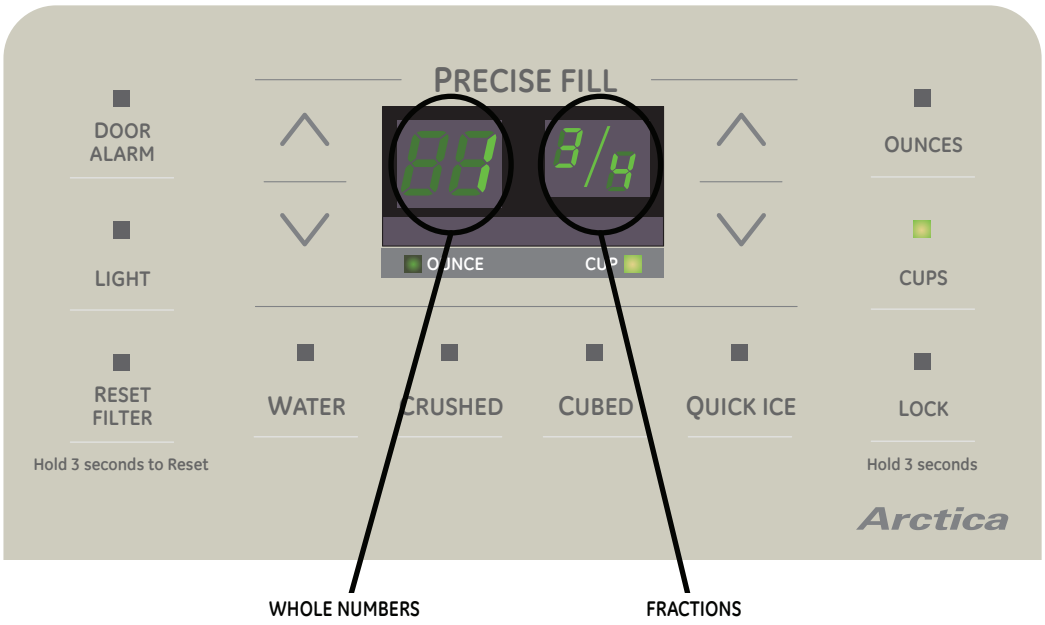


Note: Fractions are rounded to the nearest full ounce.

The Numeric Volume display is controlled by both sets of ^/⌄ buttons. Whole Numbers are displayed on the left and Fractions are displayed on the right.

In **OUNCES** mode, the ^/⌄ buttons on either side will increase/decrease the Whole Number display.
Note: Fractions will not be displayed in **OUNCES** mode.

In **CUPS** mode, the ^/⌄ buttons on the left will increase/decrease the Whole Number display while the ^/⌄ buttons on the right will increase/decrease the Fraction display.



Display continued

Whole Number and Fraction volumes are displayed as shown in the chart below.

	OUNCES	CUPS	
DISPLAY	WHOLE NUMBER	WHOLE NUMBER	FRACTIONS
LOWEST QTY.	2	1	1/4
HIGHEST QTY.	99	16	3/4
INCREMENTS	1	1	1/4, 1/3, 1/2, 2/3, 3/4

Note: The maximum conversion for cups to ounces is 12 1/3 cups (12 1/3 cups = 99 ounces). When changing from cups to ounces, any cup selection *over* 12 1/3 cups will default to 99 ounces.

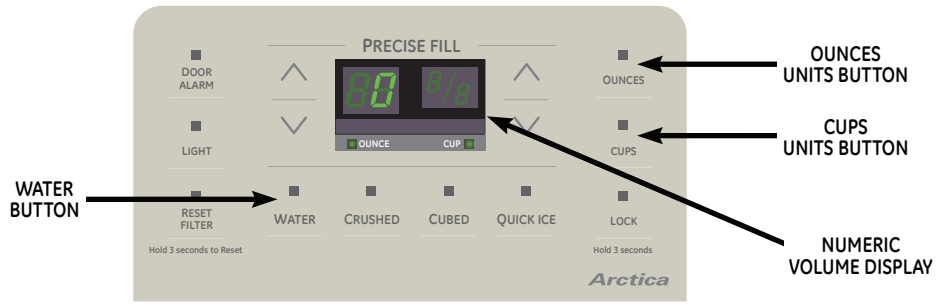
When units and measurement have been selected, engage the dispenser paddle to activate the preset water flow. Successful activation will result in a "racetrack" within the Whole Number display.

PRECISE FILL WATER DISPENSE

Upon completion, Numeric Volume will display "0" and beep, then return to the previous setting 1 second after the dispenser paddle is released.

Note: If water flow is disengaged prior to completion, the Numeric Volume display will show the remaining amount to be dispensed for 5 seconds. If the dispenser paddle is re-engaged within this time, metered dispense will continue dispensing remaining amount. Otherwise, the Numeric Volume display will revert back to the last selected volume.

Precise Fill mode will deactivate and revert to Normal Dispense mode if left idle for more than 15 seconds.

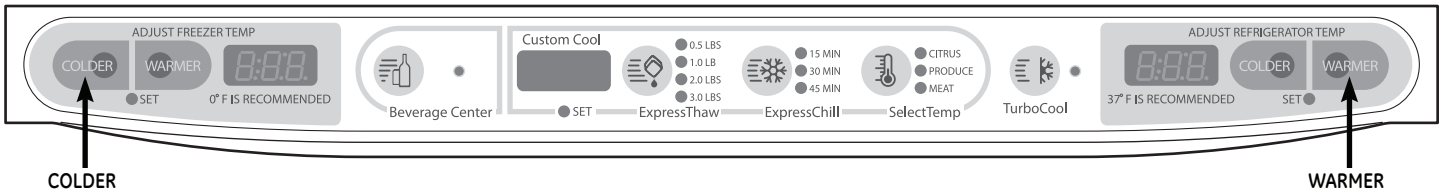


NORMAL WATER DISPENSE

Pressing the **WATER** button and engaging the dispenser paddle will provide normal water dispense. Upon completion of a normal water dispense, the Numeric Volume will display in ounces and the **OUNCE** LED will illuminate. Display will remain illuminated for 3 seconds, at which time the **OUNCE** LED will turn off and the Numeric Volume display will go blank. The **OUNCES** units button will remain off.

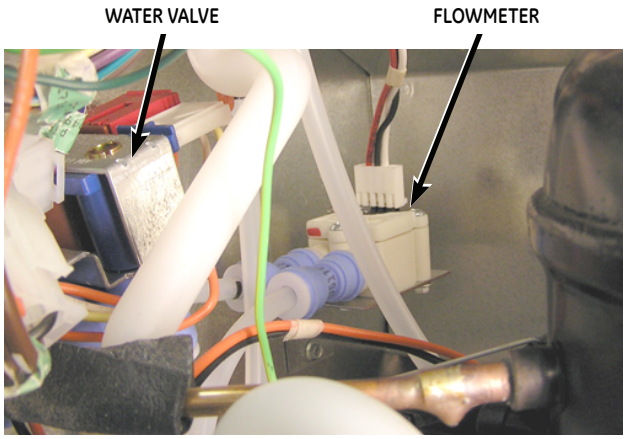
SHOWROOM MODE

The dispenser will simulate a flowmeter pulse rate even though there is no water flowing through the system to cause actual flowmeter pulses and will run through its normal operation. To activate Showroom mode, press the freezer temperature COLDER pad and the fresh food temperature WARMER pad simultaneously for 3 seconds. To exit, disconnect power cord or enter service diagnostics mode and reset the main control using pads 1 and 5.

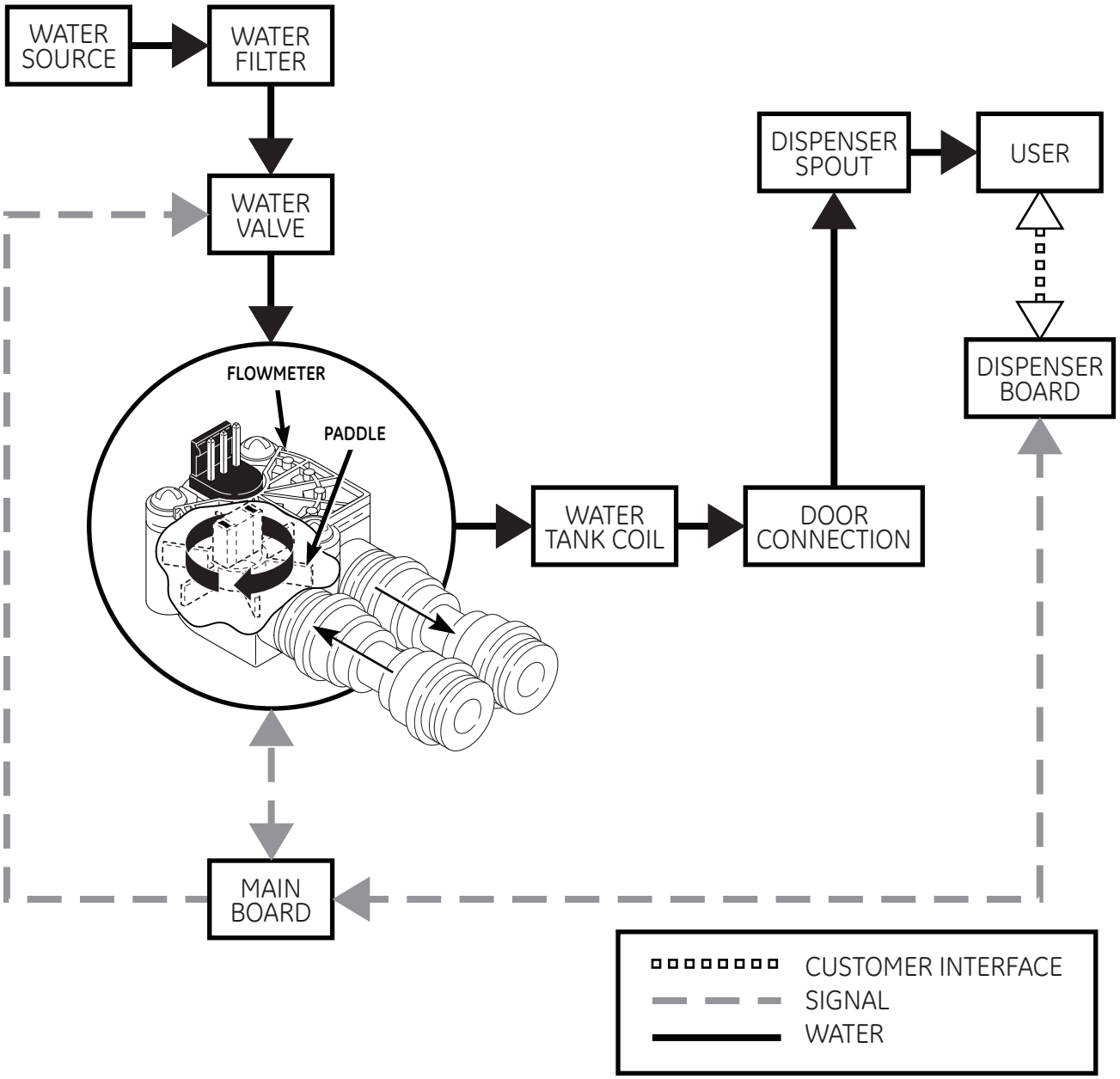


Flowmeter

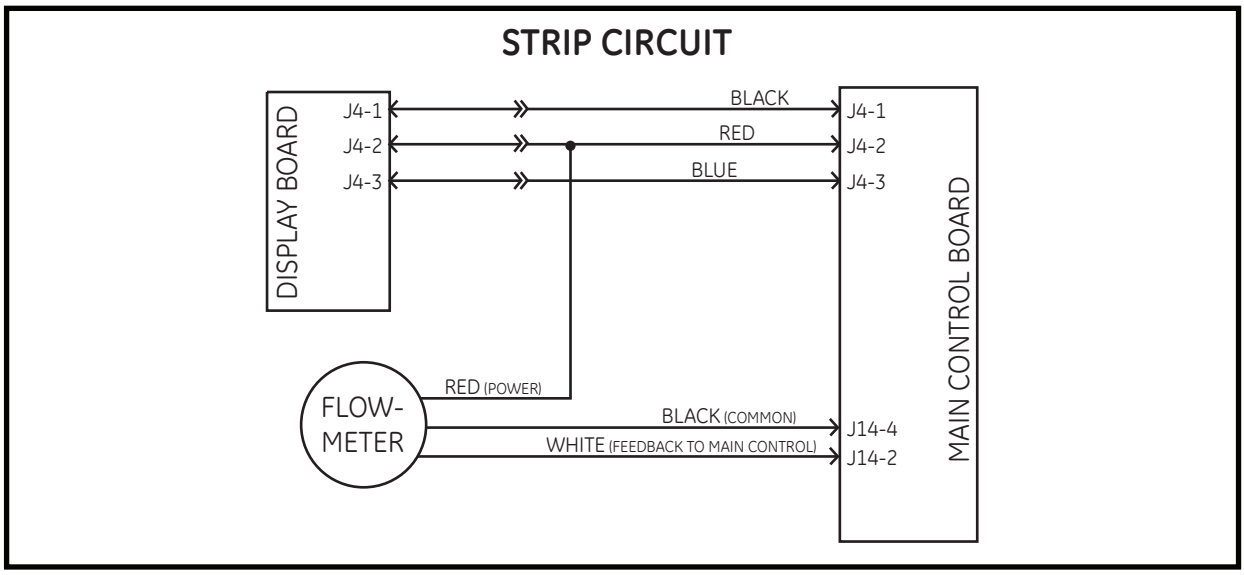
The flowmeter is located in the machine compartment behind the water valve. The water valve must be removed to access the flowmeter.

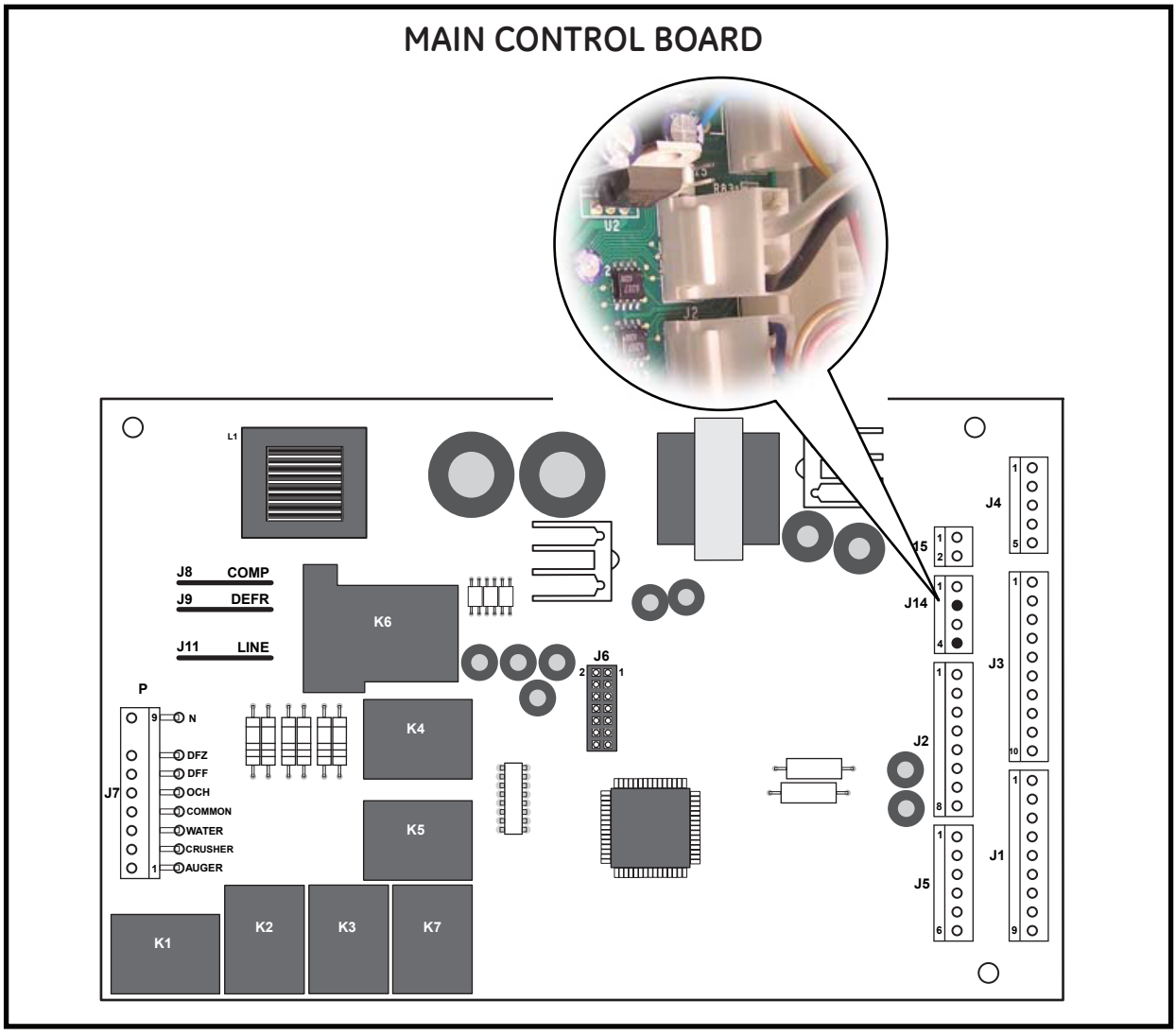


When the dispenser is activated, the flow of water through the meter rotates a paddle. The paddle contains a magnet which passes by a sensor within the flowmeter. The sensor counts the number of revolutions and sends that information to the main control board. For example, 1 Cup = Nr (number of revolutions). The main control board cycles the water valve relay based on the information.

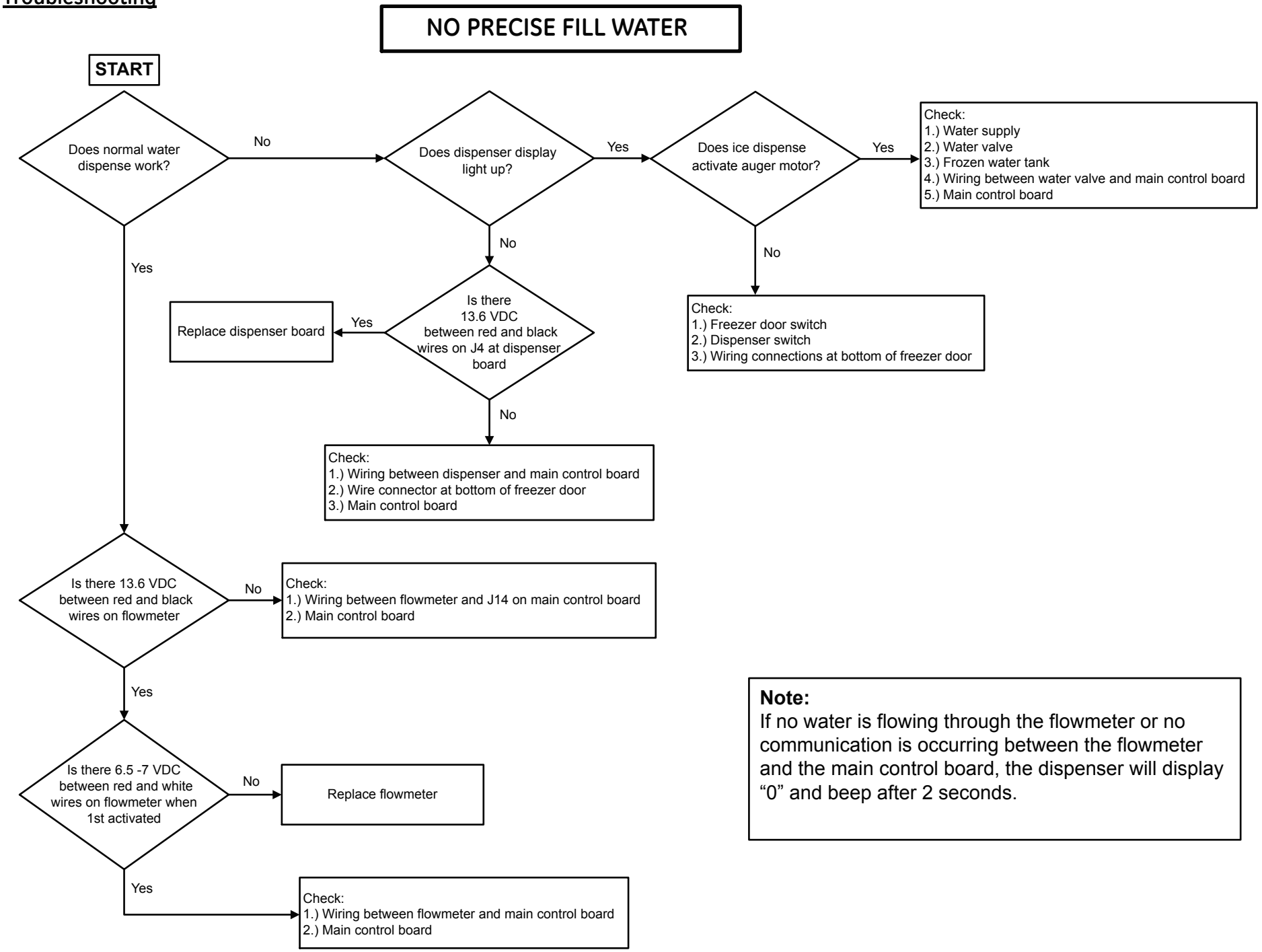


Schematic


STRIP CIRCUIT
DISPLAY BOARD
J4-1
J4-2
J4-3
BLACK
RED
BLUE
J4-1
J4-2
J4-3
MAIN CONTROL BOARD
FLOW-
METER
RED (POWER)
BLACK (COMMON)
WHITE (FEEDBACK TO MAIN CONTROL)
J14-4
J14-2


MAIN CONTROL BOARD
L1
J8 COMP
J9 DEFR
J11 LINE
K6
K4
K5
K1
K2
K3
K7
P
J7
N
DFZ
DFF
OCH
COMMON
WATER
CRUSHER
AUGER
J6
J4
J15
J14
J3
J2
J5
J1

Troubleshooting



Note:
If no water is flowing through the flowmeter or no communication is occurring between the flowmeter and the main control board, the dispenser will display “0” and beep after 2 seconds.

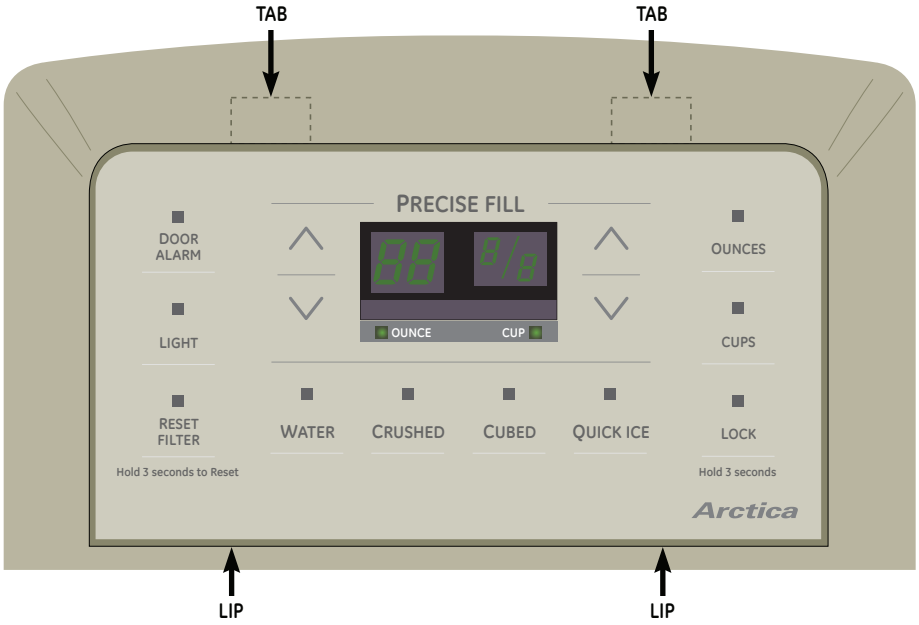
Removal and Installation

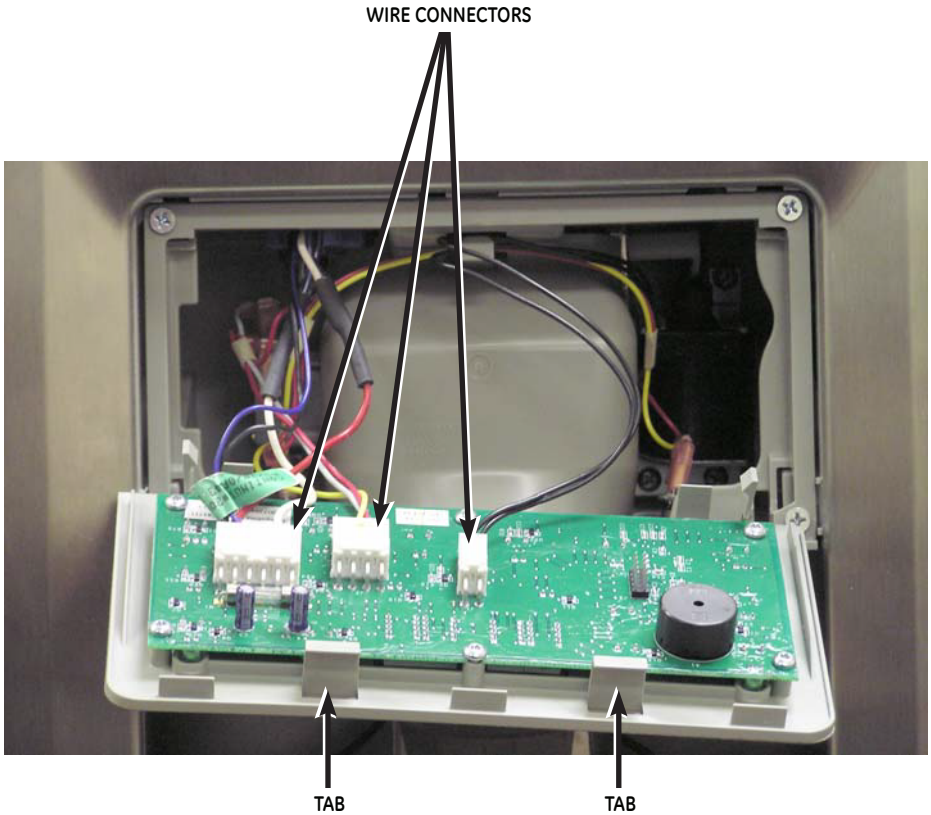
REMOVING THE DISPENSER INTERFACE

Grasp the bottom lip of the interface on either side and gently pull toward you. Disconnect the 3 wire connectors from the board.

Note: The interface is replaced as a complete assembly.

When assembling, insert top tabs into the top of door recess first, then snap the bottom into place.

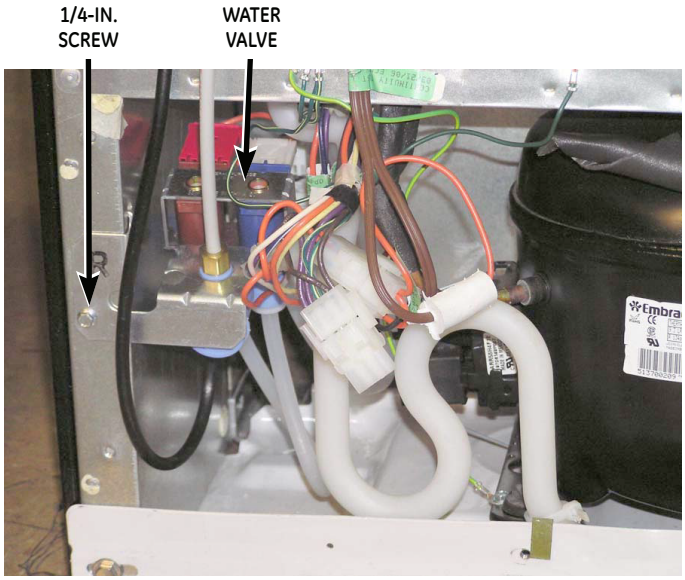




Removal and Installation continued

REMOVING THE FLOWMETER

1. Remove one 1/4-in. hex-head screw and the water valve.



2. Disconnect the water line from the flowmeter.

3. Remove one 1/4-in. hex-head screw and the flowmeter mounting bracket.

4. Disconnect the wire connector from the flowmeter.

5. Remove three 1/4-in. hex-head screws from mounting bracket

Note: DO NOT DISCARD MOUNTING BRACKET. MOUNTING BRACKET IS NOT AVAILABLE AS A REPLACEMENT PART.