

KIT PART NUMBER 6230108

INSTRUCTIONS FOR REPLACING YOUR NATIONAL VENDORS HOT WATER VALVE, P/N 6238170 WITH HOT WATER VALVE, P/N 6238112.

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CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY ARE MISSING, CONTACT THE NATIONAL VENDORS PARTS DEPARTMENT IMMEDIATELY.  
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Read these instructions carefully before installing the kit.  
Keep these instructions for part numbers and for future reference.

This kit contains the following:

INDEX	PART NUMBER	DESCRIPTION	QUANTITY
1	6230109	KIT INSTRUCTIONS-6230108	1
2	6238112	VALVE ASSY - H.W.T. - 115V	1

## REPLACING THE HOT WATER VALVE

1. Disconnect power to the machine.
2. Remove the necessary covers to obtain clear access to the valves.
3. Shut off the water at the water inlet shut-off valve.
4. Drain the water from the hot water tank.
5. Disconnect the valve harness from the valve you are replacing.
6. Remove the two #8-32 nuts securing the valve assy to the hot water tank and remove the valve.
7. Install the replacement valve supplied in the kit following the steps listed below (see figure):
  - a. Using the two nuts removed in step 6, attach the valve mounting plate and stud assy, to the hot water tank.
  - b. Mount the valve assy with the two nuts supplied to the plate and stud assy attached in 7a. above.
  - c. Connect the valve harness removed in step 5 above.
8. Open the water inlet shut-off valve.
9. Reinstall all covers that were removed in step 2 above.
10. Connect power to the machine.
11. Fill the hot water tank by following the standard fill procedures detailed in the setup or operator guides supplied with your machine.

## SETTING THE WATER TIMES AND METERING THE FLOW OF THE VALVE

There are several flowrates and water times for the various drinks that your machine can dispense. There is sufficient adjustment in the metering of the new valve to use the National Vendors default water times for all drinks except for the fresh brew drinks (including recipe drinks). Listed below is a table consisting of the volumes and new water times recommended for several cup sizes. Refer to your setup or operator guides for the appropriate programming information.

### Hot Drink Center

Selection	<u>Time (in seconds) per size cup</u>					
	<u>Volume (in ml) per size cup</u>					
	5 oz	7 oz	8 oz	9 oz	10 oz	12 oz
A Fresh Brew Coffee	4.50 130	6.40 190	7.50 220	8.20 240	9.00 265	11.00 315
B Fresh Brew Decaf	4.50 130	6.40 190	7.50 220	8.20 240	9.00 265	11.00 315
D Fresh Brew Espresso	2.25 65	3.20 95	3.75 110	4.10 120	4.50 130	5.50 160
E Cappuccino	See Below					

Cappuccino can be made with various ratios of chocolate to coffee, according to taste. Lightener is also used for cappuccino. The most efficient way to setup the cappuccino drink is to utilize the ratio features described in the operator's guide.

### Cafe' System 7

Selection	<u>Time (in seconds) per size cup</u>					
	<u>Volume (in ml) per size cup</u>					
	5 oz	7 oz	8 oz	9 oz	10 oz	12 oz
Fresh Brew Coffee/Decaf	4.50 130	6.40 190	7.50 220	8.20 240	9.00 265	11.00 315
Fresh Brew Espresso	2.25 65	3.20 95	3.75 110	4.10 120	4.50 130	5.50 160
Fresh Brew Coffee/Decaf with Whitener	3.60 105	5.10 150	6.00 175	7.05 205	7.75 225	9.45 280
Fresh Brew Coffee/Decaf with Whitener	4.05 105	5.00 150	6.05 175	6.80 205	7.45 225	9.00 280