Operating Instruction Manual
Model LCD-TCH

1-800-325-7867

3650 NEW TOWN BLVD  ST. CHARLES MO  63301
WWW.NEWCOCOFFEE.COM
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**WARNING**

- Do not overload circuit.
- Always electrically ground the chassis or adaptor plug.
- Do not deform plug or cord.
- Follow national and local electrical codes.
- Keep combustibles away.

Failure to comply risks equipment damage, fire or shock hazard.

Read the entire operating manual before using this product.
INTRODUCTION

This machine is intended to brew a 6-20 ounce single serving of coffee into a cup. This machine will also dispense hot water for allied beverage use. It is intended for indoor use only on a sturdy counter or shelf.

WARRANTY

Newco warrants equipment manufactured by it for 1 year parts and labor.

These warranty periods run from the date of sale Newco warrants that the equipment manufactured by it will be commercially free of defects in material and workmanship existing at the time of manufacture and appearing within the applicable warranty period. This warranty does not apply to any equipment, component or part that was not manufactured by Newco or that, in Newco’s judgment, has been affected by misuse, neglect, alteration, improper installation or operation, improper maintenance or repair, damage or casualty. This warranty is conditioned on the Buyer 1) giving Newco prompt notice of any claim to be made under this warranty by telephone at (800) 556-3926 or by writing to PO Box 852, Saint Charles, MO 63302; 2) if requested by Newco, shipping the defective equipment prepaid to an authorized Newco service location; and 3) receiving prior authorization from Newco that the defective equipment is under warranty.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF EITHER MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The agents, dealers or employees of Newco are not authorized to make modifications to this warranty or to make additional warranties that are binding on Newco. Accordingly, statements by such individuals, whether oral or written, do not constitute warranties and should not be relied upon.

If Newco determines in its sole discretion that the equipment does not conform to the warranty, Newco, at its exclusive option while the equipment is under warranty, shall either 1) provide at no charge replacement parts and/or labor (during the applicable parts and labor warranty periods specified above) to repair the defective components, provided that this repair is done by a Newco Authorized Service Representative; or 2) shall replace the equipment or refund the purchase price for the equipment.

THE BUYER’S REMEDY AGAINST NEWCO FOR THE BREACH OF ANY OBLIGATION ARISING OUT OF THE SALE OF THIS EQUIPMENT, WHETHER DERIVED FROM WARRANTY OR OTHERWISE, SHALL BE LIMITED, AT NEWCO’S SOLE OPTION AS SPECIFIED HEREIN, TO REPAIR, REPLACEMENT OR REFUND.

In no event shall Newco be liable for any other damage or loss, including, but not limited to, lost profits, lost sales, loss of use of equipment, claims of Buyer’s customers, cost of capital, cost of down time, cost of substitute equipment, facilities or services, or any other special, incidental or consequential damages.
Machine Dimensions & Specifications

120 VAC-1600W HEATER-15A USA POWER SUPPLY
120 VAC-1400W HEATER-15A CANADIAN POWER SUPPLY
6-20 OZ CUP SIZE
TEMPERATURE RANGE 170-205F

WATER INLET & POWER SWITCH

DRIP TRAY & DRIP TRAY GRATE

PRODUCT SELECTION SWITCH PAD & DISPLAY

PRODUCT DISPENSE AREA (CUP)

LIQUID COFFEE BIBS

REG COFFEE INLET

DECAF COFFEE INLET

HOT WATER OUTLET

COFFEE OUTLET

DISPENSE NOZZLES
Machine Features

- NO CALIBRATION NEEDED-PLUG & PLAY
- TOUCH SCREEN OPERATION
- CUSTOMIZED LOGO SCREEN
- DECAF BUTTON SWITCHES TO DECAF BIB
- PRE-PROGRAMMED DRINK RECIPES
- 6-8-10-12-16-20 OUNCE DRINK CHOICES
- CUP SELECTION MENU
- CUSTOM CALL FOR SERVICE NUMBER
- POWER SAVE & POWER DOWN OPTION
- WATER FILTER MONITORING OPTIONS
- PUSH & HOLD HOT WATER BUTTON
- PUSH & HOLD HOT DRINK DISPENSE OPTION
- SEMI-AUTOMATIC CLEANING CYCLE

THE MACHINE IS CONFIGURED AND READY TO DISPENSE 10-OUNCE DRINKS BY DEFAULT. TO CHANGE RECIPES SEE PROGRAMMING SECTION, MACHINE SET-UP.
Plumber’s Installation Instructions

**CAUTION:** Disconnect Power to machine before proceeding with plumbing installation.

1) Attach water line to water filter, rear of machine.
2) Flush water line before installing machine. Machine should be connected to COLD WATER LINE ONLY.
3) Water pressure should be at least 40 lbs. For less than a 25 ft run, use 1/4" copper tubing and connect to 1/2" or larger water line. For longer runs, use 3/8" copper tubing & connect to 1/2" or larger water line and provide an adapter fitting for connection to the brewer. **A dedicated water line is necessary for this machine. Minimum flow rate is 1GPM.**
4) If installed with saddle valve, the valve should have a minimum of 1/8" porthole for up to 25 ft run, and 5/16" porthole for over 25 ft runs.
5) Manufacturer recommends connecting to copper tubing.

**Electrical Hook-Up**

**WARNING**
The Machine must be disconnected from the power source until specified in Installation Instructions.

**Determine the available on-site electrical requirements**
Refer to Data Plate on the Machine, and local/national electrical codes to determine circuit requirements.

**CAUTION** – Improper electrical installation will damage electronic components.
Installation Instructions

WARNING: - Read and follow installation instructions before plugging or wiring in machine to electrical circuit. Warranty will be void if machine is connected to any voltage other than that specified on the nameplate serial tag.

Machine must be on a flat and level surface. Plug or wire in machine to appropriate voltage as noted on the brewer serial tag. Serial tag is located on inside of machine.

<table>
<thead>
<tr>
<th>Altitude (Feet)</th>
<th>Boiling point of water °F °C</th>
<th>Recommended water temperature °F °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1000</td>
<td>213.8 101.0</td>
<td>200 93.3</td>
</tr>
<tr>
<td>-500</td>
<td>212.9 100.5</td>
<td>200 93.3</td>
</tr>
<tr>
<td>0</td>
<td>212.0 100.0</td>
<td>200 93.3</td>
</tr>
<tr>
<td>500</td>
<td>211.1 99.5</td>
<td>200 93.3</td>
</tr>
<tr>
<td>1000</td>
<td>210.2 99.0</td>
<td>200 93.3</td>
</tr>
<tr>
<td>1500</td>
<td>209.3 98.5</td>
<td>200 93.3</td>
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<tr>
<td>2000</td>
<td>208.4 98.0</td>
<td>200 93.3</td>
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<td>2500</td>
<td>207.4 97.4</td>
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<td>205.6 96.4</td>
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</tr>
<tr>
<td>10000</td>
<td>193.7 89.8</td>
<td>186 85.6</td>
</tr>
</tbody>
</table>
Set up instructions for LCD-Touch Machine

Product Installation Procedure

- Open product box and remove the BIB outlet, Fig. 1. Remove cardboard circle and seat coffee outlet in box cutout as shown in Fig. 2.
Product Installation Procedure Cont’d

- Remove the plastic insert from the BIB fitment as and attach product fitting shown in Fig 3.

- Using finger and thumb only to prevent over-tightening, thread the BIB connector on to the BIB fitment until it is fully seated.
• Place the product in the storage compartment as shown in Fig. 4.

• Repeat installation for 2nd product and position boxes and hoses as shown in Fig. 5. Note: Regular Coffee BIB is installed on the LH side of the product compartment and Decaf Coffee BIB is installed on the RH side of the product compartment.
Touch Screen Startup Instructions

1. OPEN DOOR, PRESS AND HOLD ON/OFF BUTTON FOR 10 SECONDS. RELEASE BUTTON WHEN DISPLAY SHOWS STARTUP SCREEN

2. WAIT 30 SECONDS--THEN CYCLE POWER SWITCH TO ‘ON’ POSITION.

NOTE: THIS MACHINE IS DESIGNED TO BE RUN WITH POWER CYCLED ON AT ALL TIMES. REFER TO THE STARTUP AND POWER DOWN INSTRUCTIONS BELOW AND ALSO ATTACHED TO THE INSIDE OF THE CABINET DOOR FOR SHUTTING DOWN THE TOUCH SCREEN DISPLAY WHEN THE MACHINE IS NOT IN USE.
Touch Screen Shutdown Instructions

When storing machine, or if loss of power occurs, the tablet should be shutdown using the following procedure:

1. OPEN DOOR, PRESS AND HOLD ON/OFF BUTTON FOR 10 SECONDS—RELEASE WHEN DISPLAY CHANGES TO POWER DOWN OPTIONS

2. CONFIRM SHUT DOWN
Machine Startup Instructions

**NOTE: TABLET MUST BE POWERED ON PRIOR TO CYCLING POWER TO THE MACHINE**

Insure that there is a proper water supply connected to the machine and water is turned on. Insure that the machine is plugged into a proper power outlet and there is power supplied to the machine. Turn machine power switch on, machine should start filling, will shut off when full. The Touch Screen Display will indicate when the machine is filling.

Heater will turn on when water in tank is at probe level and will display Heating: Please Wait. The heating process can take 10-15 minutes before the machine is ready to brew.

When machine temperature reaches brew temp, display will change to the Drink Selection Screen. The machine is now ready for operation.

Sleep screen appears when machine has been idle. Touching the Sleep Screen will bring up the Instruction Screen then the Drink Selection Menu.
Brewing Drinks

To dispense a drink, place a cup under the dispense area, press a brew selection, choose a cup size and press “Brew” button. (see page 16)

Once a selection is made a Submenu for Drink Settings will appear—see page 16.
Drink Submenu

Cup Size Selections
- Small
- Medium
- Large
Use to Change Cup Size

Cup Strength Selections
- Mild
- Regular
- Bold
Use to Change Coffee Strength
Default Regular

Coffee Strength Indicator
*(Shows Ounces if selected—See Drink Selection Menu Page 18)

Return Button
Returns to Main Drink Selection Menu

Brew Button
Starts Brewing Cycle

Cancel Button
Stops Brewing Cycle

Your selection is being prepared
Programming Instructions

TAP 3 TIMES ON CENTER OF “D” TO ENTER PROGRAMMING MODE
IF A BREWING ICON IS ACCIDENTLY TOUCHED
USE THE RETURN ARROW TO TRY AGAIN

Screen will change to Program Menu Screen:

- Maintenance
- Statistics
- Setup
- Exit Setup
- Exit Programming

Water Filter
Remaining Gal Not shown if not filter tracking is not enabled*
Shows water filter gallons left before filter change*

Water filter Reset
Select this after changing filters to reset water filter countdown*

Clean Pumps
Access Pump Cleaning Menu**
Prime Pumps- Access Pump Priming Menu See Page 18
Exit Maintenance Mode

Total run cycles
Total drinks dispensed

Total Water Usage
Total Gallons of water dispensed*

Exit Statistics Mode

Water Temperature
Adjust Temperature 170 – 205 Deg F
Default 180

Press And Hold
Enables Press And Hold for Coffee Selections

Energy Save Mode
Turns on Tank Temperature Energy Savings Mode
OFF, SEMI (Lowers tank temp), FULL (Turns Tank Off)
Default is OFF

Energy Save Time
Timer from last dispense till Energy Save kicks in

Cup Light
Turns on dispense Light in Cup Area
OFF, Dispense Only, Always On
Default is Dispense Only

Global Ratio (Reg & Decaf)
Sets Coffee to Water ratio across all recipes
Separate Adjustment for Coffee and Decaf
45:1 to 25:1 Defaults are both 30:1

Water Filter Size
Turns Water Filter tracking On or Off
OFF, 500-3000 Gallons
Default is Off

Call For Service #
Space to enter Contact Info that will be shown on “Call for Service” Screens

Drink Selection Menu-See page 18
Restore Factory Settings
Reset Machine to Factory Defaults
Exit Setup Mode

Primary Newco Server (Future Use)
Secondary Server (Future Use)
Sleep Timeout
Time brewer will stay awake before entering sleep screen

Brewing Screen
Toggles between Slates or Display Installed Logo Screen
Default is Slates

Install Logo & Load Software Update *See Page 21
Network Setup *See Page 21 Instruction #2
Exit Local Setup Mode

45:1 to 25:1 Defaults are both 30:1

Water Filter Size
Turns Water Filter tracking On or Off
OFF, 500-3000 Gallons
Default is Off

Call For Service #
Space to enter Contact Info that will be shown on “Call for Service “ Screens

Drink Selection Menu-See page 18
Restore Factory Settings
Reset Machine to Factory Defaults
Exit Setup Mode
Programming-Cont’d.

**Drink Selection Menu**

- Ability to turn Drink Selections and/or Cup Sizes On or Off
- Cup Size Choices are 6-8-10-12-16-20 Ounces or OFF
- Drink Strengths are Mild-Regular-Bold
- Iced & Espresso Drinks can be turned Off or On
- Default Cup size
- Determines which cup size will Dispense by Default
- Ounces Displayed
- Cup size in Ounces or Small Medium Large

**Exit Drink Selection Mode**

**Pump Cleaning and Priming**

- Access from Maintenance Menu
  - Selecting these Menu Choices will also Enable the Cleaning and Priming Menu

**“Hidden” Quick Access For Cleaning and Priming**
- Press and Hold for 5 Seconds & let go – Quick Access Buttons will Appear
- Selecting Either Button Enables Cleaning and Priming Menu

**Cleaning and Priming Menu**
- This Menu Enables the Coffee Lines to be Cleaned and then Re-Primed
- Follow Instructions at top of Menu. Refer to Page 27
TAP 3 TIMES ON CENTER OF “L” THEN TAP 3 TIMES ON CENTER OF “D” TO ENTER SECONDARY PROGRAMMING MODE.

IF A BREWING ICON IS ACCIDENTLY TOUCHED USE THE RETURN ARROW TO TRY AGAIN.

**Coffee Valve Calibration**—Insert a measuring container capable of holding 32 or more ounces of water under delivery area of machine, and press “Start Cal Cycle” button to start calibration countdown period. After cycle has completed use the + and - buttons to toggle the value, increasing or decreasing value until the display number matches the amount of the water measured in Ounces. Default is 10 oz.

Recipe Entry—See Page 20
SCROLL THROUGH RECIPES BY SELECTING RECIPE NUMBER AS SHOWN THEN USE PLUS AND MINUS (+ -) BUTTONS TO SCROLL UP AND DOWN

CHANGE RECIPE VALUES BY VALUE IN RECIPE FIELD THEN USE PLUS AND MINUS (+ -) BUTTONS TO SCROLL UP AND DOWN

Note: Changing the values in these recipes can result in changes in cup volume and taste profile and should be performed by authorized personnel only.

SAVE RECIPE CHANGES BEFORE EXITING RECIPE ENTRY MODE VALUES WILL NOT UPDATE UNTIL RECIPE IS SAVED
Custom Logo-Wifi Setup

1. TOUCH TO ACCESS APPLICATION ICONS
2. PRESS “Settings” ICON TO ACCESS WIFI
3. PRESS “Wifi” ICON TO ACCESS WIFI SETUP & CONNECT TO LOCAL WIFI NETWORK
4. TURN “WI-FI” ON
5. SELECT “WI-FI” NETWORK
6. ENTER PASSWORD AND CONNECT
7. TURN ON POWER TO LCD-TOUCH MACHINE USING SWITCH AT REAR LEFT OF MACHINE
8. RETURN TO SELECTION SCREEN

TURN OFF POWER TO MACHINE USING SWITCH AT LOWER LEFT REAR OF MACHINE

WIFI SETUP CAN ALSO BE ACCESSED FROM “Local Setup” MENU-UNDER “Network Setup” (pg. 17)

TURN OFF POWER TO MACHINE USING SWITCH AT LOWER LEFT REAR OF MACHINE

WIFI SETUP CAN ALSO BE ACCESSED FROM “Local Setup” MENU-UNDER “Network Setup” (pg. 17)
Install Custom Logo (Sleep Screen)

1. **OPEN THE APP AND COPY SETTINGS FROM LCD-TOUCH**
   - SAVE SETUP WHEN FINISHED

2. **INSTALL "FTP EXPRESS" APP ONTO A LOCAL PHONE OR TABLET.**
   - CONNECT THE LOCAL PHONE OR TABLET TO THE SAME WIFI NETWORK AS THE LCD-TOUCH.
   - APPLICATION EXAMPLE SHOWN IS "FTP EXPRESS" FOR ANDROID
   - SETUP FTP CONNECTION AS SHOWN-COPY INFORMATION FROM LCD-TOUCH AS SHOWN ON SCREEN—NOTE: EACH MACHINE HAS A UNIQUE IP ADDRESS

3. **TOUCH SITE TO OPEN CONNECTION,**
   - SELECT "LOCAL" WHEN CONNECTED

4. **LCD-TOUCH SCREEN WILL CHANGE TO FINISH. PRESS TO EXIT, THEN EXIT SETUP MENUS.**
   - **TURN OFF WIFI, SEE PAGE 21 #4, TURN OFF**

**FTP EXPRESS**

Remote:
/data/data/com.newcocoffee.NewcoTouch/cache

**AT**

TAP "D" 3 TIMES TO ENTER PROGRAMMING MODE --IF A BREWING ICON IS ACCIDENTLY TOUCHED USE THE RETURN ARROW TO TRY AGAIN

**THIS ADDRESS IS UNIQUE FOR EVERY MACHINE. NOTE THAT IT IS USED FOR THE HOST ADDRESS WHEN SETTING UP COMMUNICATION SITE**
INSTALL THE "ITRANSFER" APP ONTO A LOCAL PHONE OR TABLET. CONNECT THE LOCAL PHONE OR TABLET TO THE SAME WIFI NETWORK AS THE LCD-TOUCH. APPLICATION EXAMPLE SHOWN IS "ITRANSFER" FOR I-PHONE/IOS/APPLE.

1. OPEN THE APP AND SELECT FTP/FTPS/SFTH, ADD SERVER.

2. FOR SERVER NAME ENTER CX.

3. FOR HOST IP ADDRESS COPY IP ADDRESS INFO FROM LCD-TOUCH.

IP Address: 192.168.3.227
Port Number: 2121
Username: ftp
Password: ftp
Directory: /data/user0/com.newcocoffee.NewcoTouch/cache
Waiting for connection ...

CANCEL

4. FOR REMOTE PATH INFO ENTER - /data/data/com.newcocoffee.NewcoTouch/cache

5. ENTER PORT 2121, USERNAME ftp, PASSWORD ftp THEN PRESS Save BAR.

SERVER NAME IS NOW SHOWN AS CX.

6. TAP SERVER CX TO CONNECT TO LCD-TOUCH MACHINE.

This folder has no files. Pull down to reload.
7. STATUS ON LCD-TOUCH MACHINE CHANGES TO Connected-Waiting for transfer

8. TO SELECT A FILE TO TRANSFER SELECT THE UPLOAD BUTTON

9. SELECT THE DIRECTORY WHERE THE IMAGE FILE TO BE TRANSFERRED RESIDES

10. SELECT THE IMAGE TO BE TRANSFERRED THEN SELECT Upload

11. FILE WILL TRANSFER TO THE LCD-TOUCH MACHINE

12. SELECT FINISH TO COMPLETE TRANSFER, THEN EXIT FROM PROGRAMMING SCREENS. TURN OFF WIFI, SEE BELOW.

TURN OFF POWER TO LCD-TOUCH MACHINE USING SWITCH AT REAR RIGHT OF MACHINE

OPEN ICONS, SETTINGS, WIFI. TURN WIFI SWITCH OFF & THEN POWER DOWN TOUCHSCREEN—SEE INSTRUCTIONS ON PAGE 13. FOLLOW INSTRUCTIONS ON PAGE 12 TO TURN TOUCHSCREEN BACK ON.
Cleaning & Sanitizing Instructions

1. Remove product from storage area and disconnect BIB connectors as shown in figures 1 & 2.
2. Place an empty container in the dispense area of the machine as shown in figure 3.
3. Connect the cleaning solution to the BIB connector for Pump and connect cleaning BIB (PN 900083) as shown in figure 4.
Cleaning Instructions

1. Remove the product BIBs from the machine and connect a BIB of cleaning solution to the PUMP 1 (COFFEE) BIB connector as shown in figs. 1-4 pages 25-27.

2. Enter Cleaning and Priming Menu (See Page 18)

3. Press the Clean Pumps button on the display panel to enter Cleaning Mode.

4. Display message will read “Connect Cleaning Solution to Bib Connector”.

5. Place an empty 12 oz cup in the dispense area. Press “Clean Coffee Pump” button to Start Cleaning. Cycle will start and finish automatically.

6. Cleaning cycle runs 2.5 minutes total: pump 45 sec., dwell 90 sec., & water 15 sec.

7. When cleaning cycle ends, disconnect the BIB of cleaning solution from the Pump BIB connector and replace the coffee BIB with new product. The machine will automatically advance to the Prime Pumps mode.

8. To Prime: Press and hold the “Prime Coffee Pump” button until a steady stream of product flows from the dispense area into the vessel.

9. Change Cleaning solution to Pump 2 (DECAF) and repeat steps 3-8 to Clean, Clean and Prime Pump 2 (DECAF).

10. Exit to Home screen when finished.

11. Discard the Contents of the 12 oz cup.
Weekly Sanitizing Instructions

1. Remove the bag connector from the product box and disassemble or prop open the internal valve to allow free flow of product through the connector. NOTE: Cutting the mating fittings from an empty bag makes an excellent “free flowing” connector for this purpose.
2. Place the bag connector into a one-gallon (3.8 liter) container of warm soapy tap water 140°F (60°C).
3. Place an empty container under dispense tip and activate the corresponding button until the clean soapy water is dispensed from the dispense tip.
4. Repeat steps 3 and 4 with warm tap water 140°F (60°C) to rinse the soapy water from the pump tubing. Continue dispensing until the water is clear, and no soapy water is being dispensed.
5. Prepare 1 gallon (9.46L) of sanitizing solution by dissolving 1 tablespoon of household bleach into 1 gallon (9.46L) of 120°F (48.9°C) water to ensure 200 ppm of available chlorine.
6. Place the coffee connector in the sanitizing solution. Again, repeat steps 3 and 4 with the sanitizing solution, ensuring that the bag connector remains covered in sanitizer. Once sanitizing solution is being dispensed, stop dispensing and allow the solution to sit for 5 minutes.
7. Repeat step 5 to flush out the sanitizing solution from the pump tubing.
8. Remove the mating connector from the bag connector.
9. Reattach the bag connector to product BIB.
10. Activate the Coffee Mild button until coffee appears, then dispense 2 8-ounce cups of coffee and discard
Service Notes & Troubleshooting

Load Software Update

Future updates to the Touch Screen Software will be delivered via e-mail. Instructions for updating the firmware from a Smart Phone or Tablet will be included in the e-mail.

<table>
<thead>
<tr>
<th>Display Reads</th>
<th>Possible Cause(s)</th>
<th>Remedies</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fill Timeout Error</td>
<td>Water shut off to Machine</td>
<td>Check Water Supply Shutoff</td>
<td>Initial fill time longer than 4 minutes</td>
</tr>
<tr>
<td></td>
<td>Supply Line Blocked or too small</td>
<td>Repair or Replace as needed</td>
<td>Fill time Longer than 1 Minute</td>
</tr>
<tr>
<td></td>
<td>Water Filter Restricted</td>
<td>Replace-Service Required</td>
<td>Water Probe has a 30 second Hysteresis cycle</td>
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<tr>
<td></td>
<td>Inlet Solenoid valve Faulty</td>
<td>Replace-Service Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control Board Failure</td>
<td>Replace-Service Required</td>
<td></td>
</tr>
<tr>
<td>Thermistor Error</td>
<td>Thermistor not plugged in</td>
<td>Make sure plug in housing is latched</td>
<td>Open or Shorted Thermistor</td>
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<tr>
<td></td>
<td>Faulty Thermistor</td>
<td>Replacement</td>
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<tr>
<td></td>
<td>Control Board Failure</td>
<td>Replace-Service Required</td>
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<td>Heater Error</td>
<td>Faulty Thermistor</td>
<td>Replacement</td>
<td>4 Minute Continuous Heater Run</td>
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<td>Control Heater Element</td>
<td>Replace-Service Required</td>
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<tr>
<td></td>
<td>Control Board Failure</td>
<td>Replace-Service Required</td>
<td></td>
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DRAINING THE HOT WATER TANK

THE DRAIN TUBE IS CONNECTED TO BLACK PLUG ON REAR LOWER PANEL OF MACHINE. TANK HOLDS APPROX 3/4 US GALLON.

THE HOT WATER TANK CAN BE DRAINED FROM THE REAR OF THE MACHINE – UNPLUG MACHINE FROM POWER SOURCE. CAUTION-UNLESS THE TANK IS LEFT TO COOL THE WATER IS EXTREMELY HOT AND CAN CAUSE HARMFUL BURNS. REPLACE DRAIN PLUG, ENSURE HOSE CLAMP IS TIGHT AND REPOSITION DRAIN HOSE BEFORE RE-FILLING THE HOT WATER TANK.
Wiring Diagram 240 VAC