JENNAIR®

SERVICE MANUAL

Built-in Coffee System

W11356996

FORWARD

This JennAir Service Manual, "Built-in Coffee System" (Part No. W11356996), provides the In-Home Service Professional with service information of the “Built-in Coffee System."

For specific operating and installation information on the model being serviced, refer to the “Use and Care Guide” or “Installation Instructions” provided with the coffee system.

GOALS AND OBJECTIVES

The goal of this Service Manual is to provide information that will enable the In-Home Service Professional to properly diagnose malfunctions and repair the "JennAir Built-in Coffee System.”

The objectives of this Service Manual are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.
- Successfully return the coffee system to its proper operational status.

WHIRLPOOL CORPORATION assumes no responsibility for any repairs made on our products by anyone other than authorized In-Home Service Professionals.

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JennAir Built-in Coffee System

Notes

Section 1: General Information

This section provides general safety, parts, and information for the “JennAir Built-in Coffee System.”

- Coffee System Safety
- Product Features
- Model/Serial label location
- Tech Sheet Location
- Model & Serial Number Nomenclature
- Product Specifications

Coffee System Safety

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word “DANGER” or “WARNING.” These words mean:

DANGER — **You can be killed or seriously injured if you don't immediately follow instructions.**

WARNING — **You can be killed or seriously injured if you don't follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire, electric shock, or injury to persons when using the appliance, follow basic precautions, including the following:

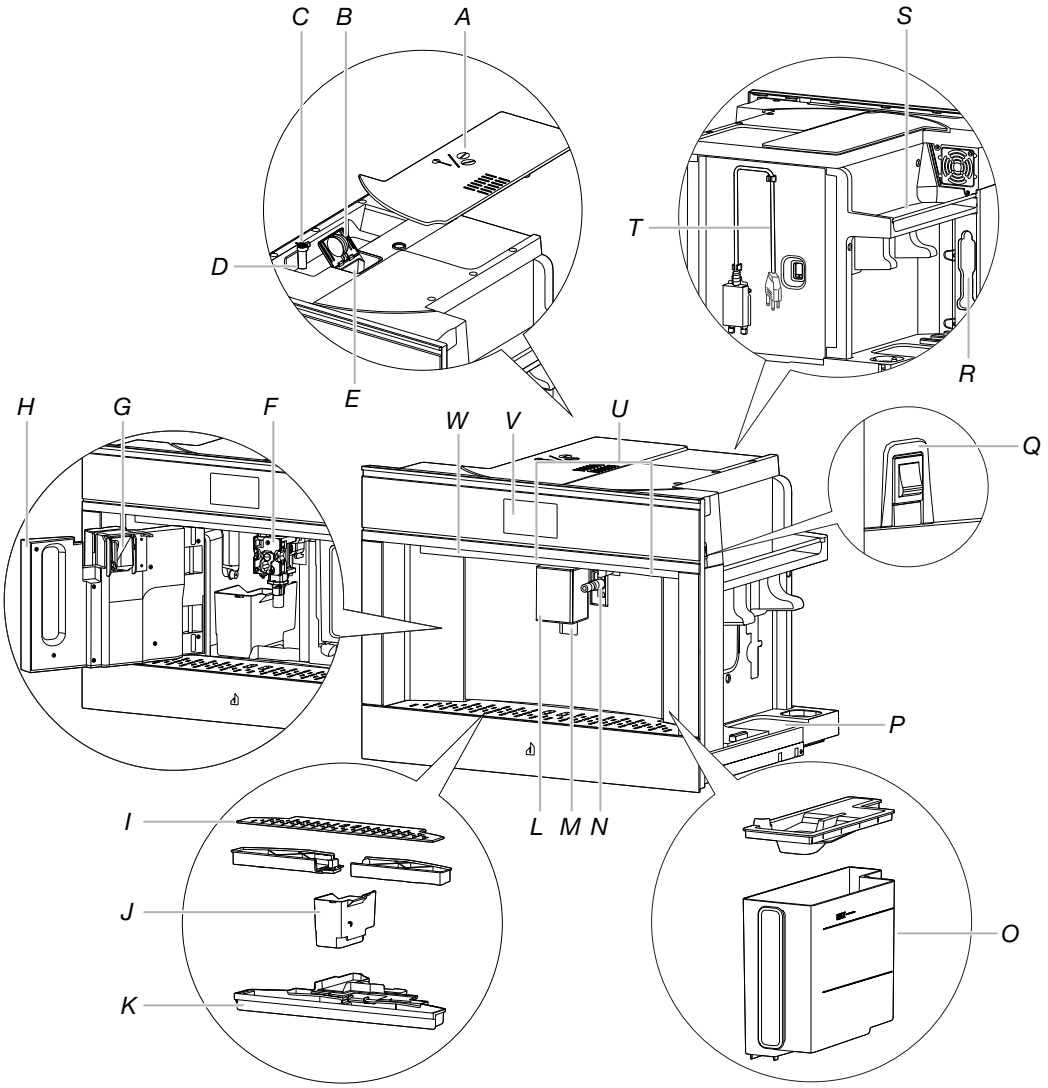
- Read all instructions before using the appliance.
- Do not touch hot surfaces. Use handles or knobs.
- To protect against fire, electric shock, and personal injury; do not immerse cords, plugs, or appliance in water or other liquids.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Unplug from outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts, and before cleaning.
- Do not operate any appliance with a damaged cord or plug, or after appliance malfunctions or has been damaged in any manner. Return the appliance to the nearest authorized service center for examination, repair or adjustment.
- The use of accessory attachments not recommended by the appliance manufacturer may result in fire, electric shock, or personal injury.
- Do not use outdoors.
- Do not let cord hang over edge of table or counter, or touch hot surfaces.
- Do not place on or near a hot gas or electric burner, or in a heated oven.
- Always switch the appliance off, then plug cord into the wall outlet. To disconnect, turn the appliance off, then remove plug from wall outlet.
- Do not use appliance for other than intended household use.

SAVE THESE INSTRUCTIONS

Product Features

This manual covers several models. The coffee system you have purchased may have some or all of the items listed. The locations and appearances of the features shown here may not match those of your model.

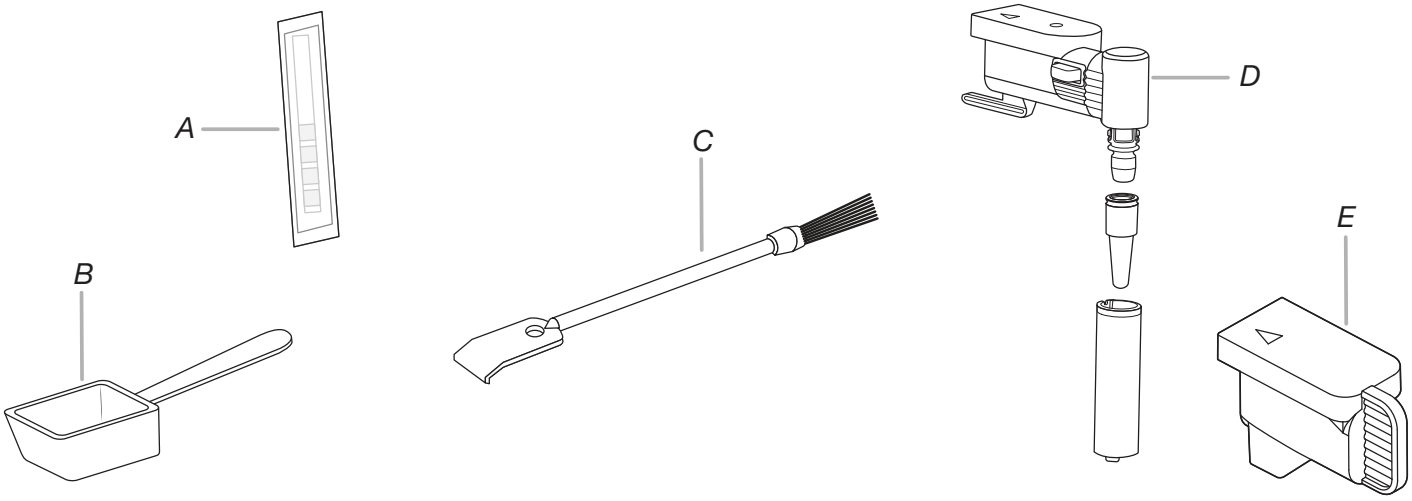
Coffee System:



A. *Beans container lid*
B. *Pre-ground door*
C. *Grinding adjustment dial*
D. *Beans container*
E. *Ground coffee funnel*
F. *Infuser*
G. *Coffee guide*
H. *Service door*
I. *Cup holder tray*
J. *Coffee grounds container*
K. *Drip tray*
L. *Coffee spouts (adjustable height)*
M. *Lights to illuminate cup*
N. *Hot water/steam connection nozzle*
O. *Water tank*
P. *Storage tray*
Q. *Main ON/OFF switch*
R. *Measure holder*
S. *Cup warming ledge*
T. *Power cord*
U. *Lighting to illuminate interior compartment*
V. *Control panel*
W. *On/standby button*

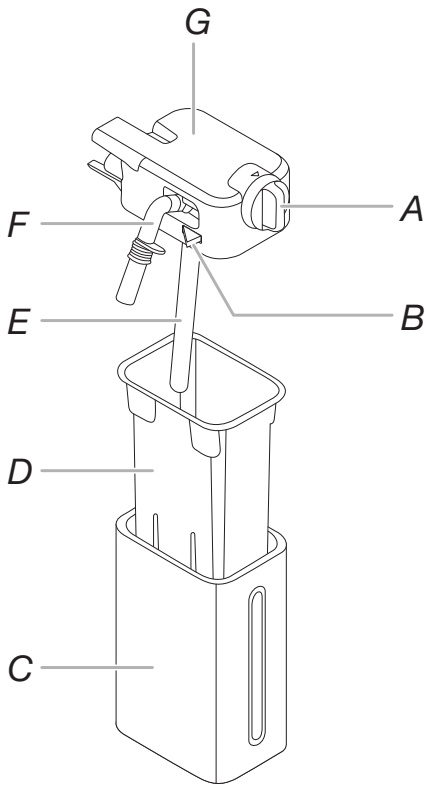
Product Features (continued)

Accessories:



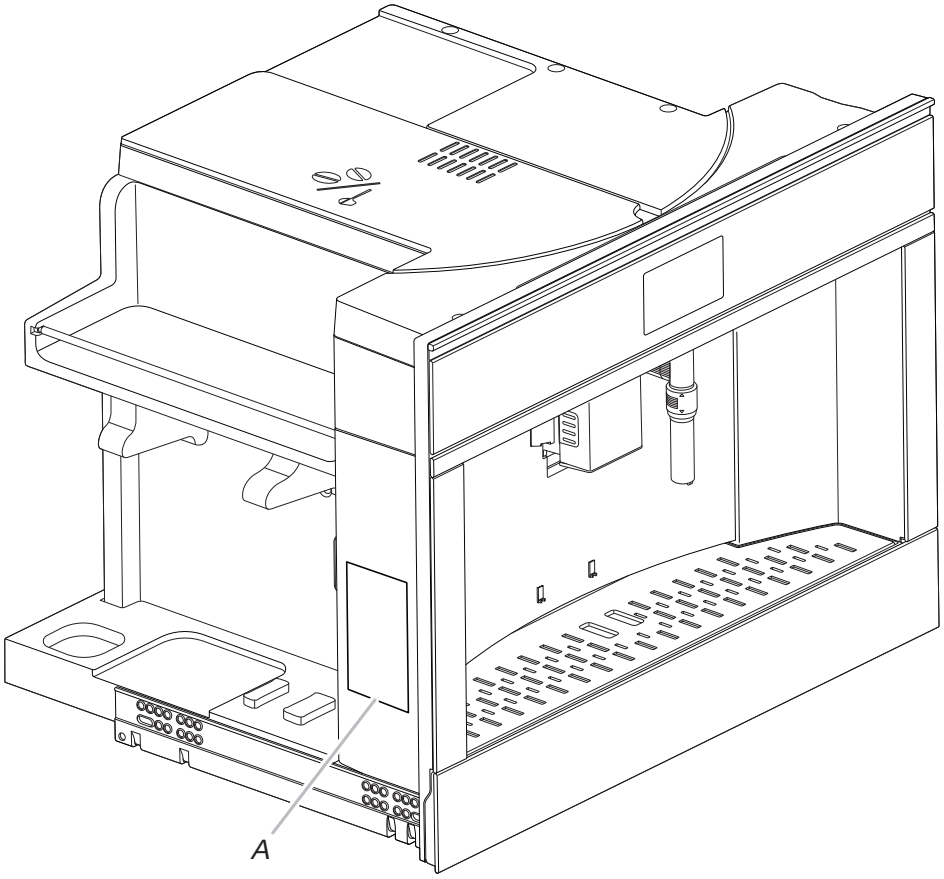
A. "Total Hardness Test" indicator paper
B. Ground coffee measure
C. Cleaning brush
D. Hot water/steam spout
E. Connection nozzle cover

Milk and Accessories Container:



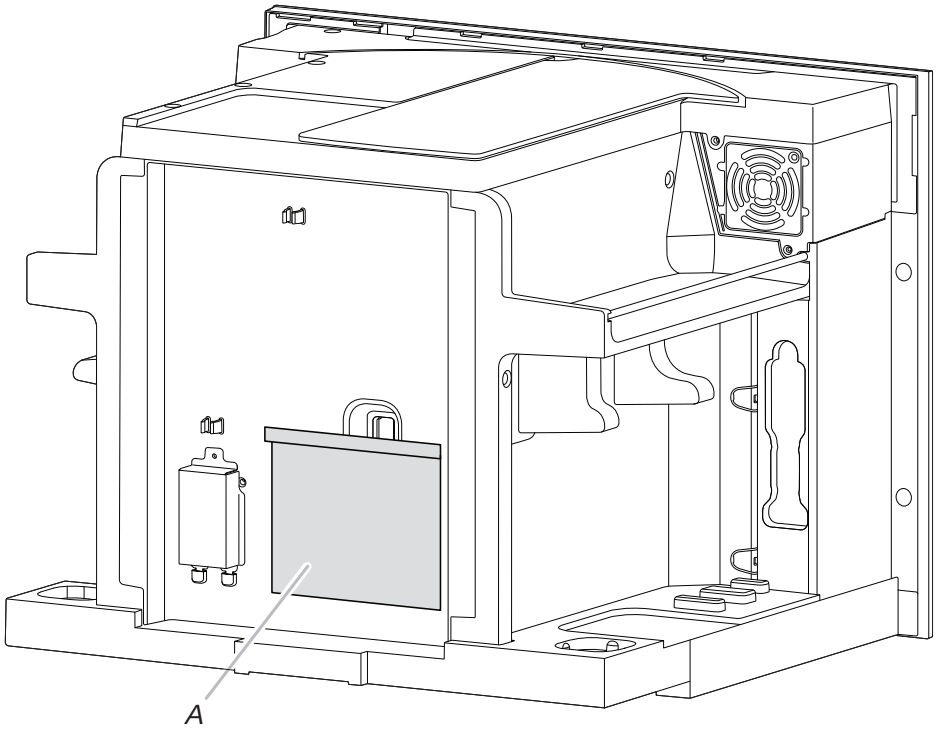
A. Froth adjustment and CLEAN function dial
B. Lid release buttons
C. Thermal casing
D. Milk container
E. Milk intake tube
F. Adjustable frothed milk spout
G. Lid with milk frother

Model/Serial Label Location



A. Model/Serial label

Wiring Diagram Location



A. Wiring diagram (attached with tape)

Model & Serial Number Nomenclature

MODEL NUMBER	J	J	B	64	24	H	M

INTERNATIONAL SALES OR MARKETING CHANNEL

Brand
J = JennAir

Categories
J = Electric
M = Microwave

Configuration
W = Wall Oven
C = Microwave
D = Warming
E = Three Door / Double Cutout
B = Coffee Maker

Product Detail
60 = Steam Oven
62 = Speed Oven
64 = Coffee Maker

Size
Cutout Width (inches)
24
27
30

YEAR
H = 2018
I = 2019
J = 2020
K = 2021

COLOR
S = Euro SS
P = Pro SS
M = Modern (Noir SS)
L = ProLux SS

SERIAL NUMBER	YD	9	39	01234

SUPPLIER LETTERS
YD = Italy

YEAR OF PRODUCTION
9 = 2019
X = 2020

Two digits that represent the week of the year

PRODUCT SEQUENCE NUMBER
Five digits that represent the unique product number.

Product Specifications

Dimensions	
Cutout Depth (IN, inches)	$21^{11}/_{16}$
Cutout Height (IN, inches)	$17^{3}/_{4}$
Cutout Width (IN, inches)	$22^{1}/_{16}$
Depth (IN, inches)	$18^{15}/_{16}$
Height (IN, inches)	$17^{7}/_{8}$
Width (IN, inches)	$23^{7}/_{16}$
Options	
Selection Options	Cappuccino Option Coffee-Espresso Brewing Option Frothing System with Integrated Milk Container Hot Water Dispenser
Controls	
Control Type	Full Color LCD Electronic Touch
Descaling Mode	Yes
Details	
Adjustable Coffee Strength	Yes
Dual Dispensing Spouts	Yes
LED Lighting	Yes
Pre-Heat Rinse Function	Yes
Removable Brewing Unit	Yes
Serving Size Customization	Yes
Temperature Customization	Yes
Water Hardness Setting	Yes
Features	
Automatic Brewed Grounds Collection	Yes
Coffee Measuring Scoop	Yes
Concealed Storage Trays	Yes
Cup Tray with Integrated Drip Tray	Yes
Empty Waste Coffee Container Alert	Yes
Fill Beans Container Alert	Yes
Fill Tank Alert	Yes
Flush-to-Cabinet Installation Options	Yes
Ground Coffee Compatibility	Yes
Certifications	
Prop 65	Standard
Design Type	
Design Expression	NOIR™/RISE™
EndecaProps	
Product Outlet Categories	Cooking

Product Specifications (Continued)

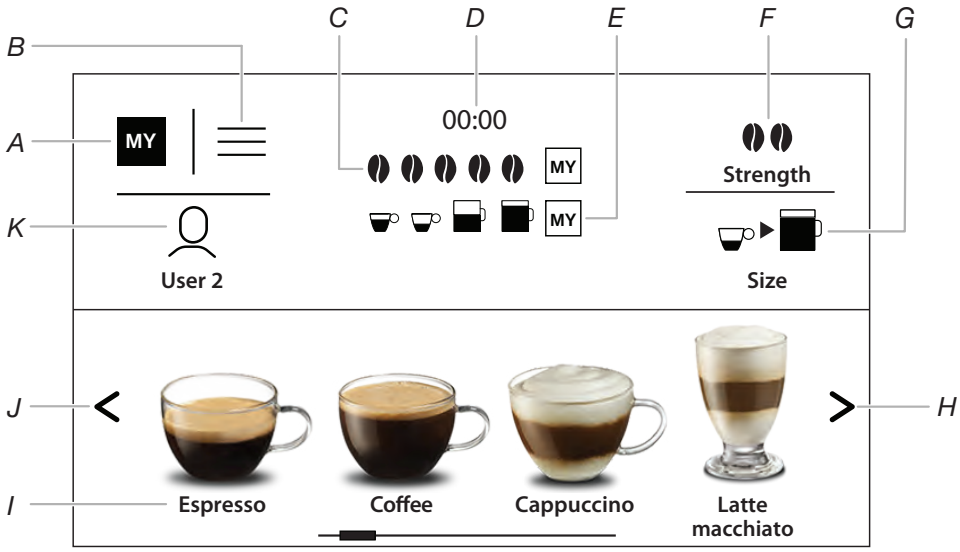
COFFEE SYSTEM SPECIFICATIONS	
Voltage:	120 VAC, 60 Hz
Power:	1350 W
Pressure:	218 psi (15 bar)
Water Tank Capacity:	2.54 quarts (2.4 liters)
Coffee Section	
Temperature Probe:	208°F (98°C) Coffee/Hot Water
Thermal Fuse (TCO):	377°F (192°C)
Heating Element:	600 + 600 W
Pump:	ULKA-EP 5, 120 VAC, 60 Hz, 48 W
Steam Section	
Temperature Probe:	293°F (145°C) Steam
Thermal Fuse (TCO):	604°F (318°C)
Heating Element:	1000 W

Section 2: Diagnostics & Troubleshooting

This section provides diagnostic, fault codes, and troubleshooting information for the “JennAir Built-in Coffee System.”

- Control Panel
- To Enter Service Mode
- To Enter Load Test Mode
- Measuring Coffee Temperature
- Measuring Milk Temperature
- Customer Instruct and Technical Faults
- Troubleshooting

For Service Technician Use Only
Control Panel

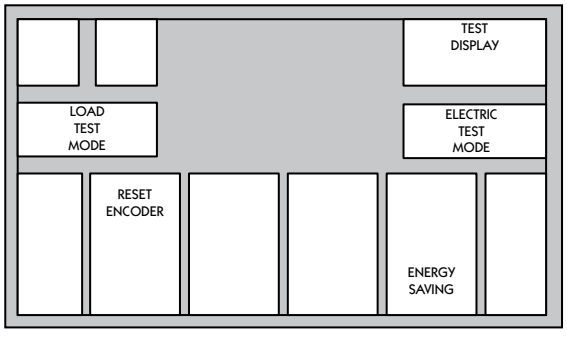


A. Menu to customize beverages settings
B. Appliance settings menu
C. Selected strength
D. Clock
E. Selected size
F. Strength selection
G. Size selection
H. Right scroll arrow
I. Selectable drinks (press on the scrolling arrows to see all the drinks)
J. Left scroll arrow
K. Customizable profiles

To Enter Service Mode:

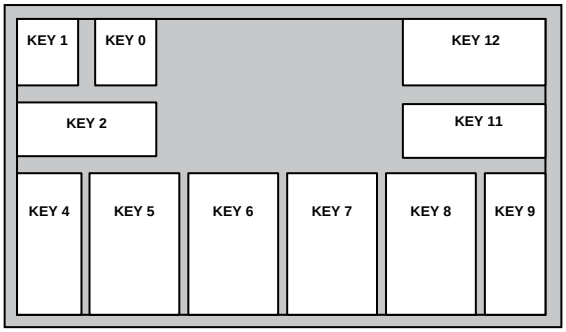
1. With the machine in stand-by (plugged in with the main switch on, but the machine OFF), open the service door.
2. Press the four corners of the display simultaneously until the Service Menu appears.

3. The possible options will be displayed.



4. Close the door and choose one of the options by pressing and holding the relative display area.

Display	Function
Load Test Mode	Tests all the functional parts by pressing the related display area. See page 2-4.
Reset Encoder	Resets the value recorded as the top position for the Diverter Assembly. If a mechanical or electrical component in the Diverter Assembly is replaced (for example, the transmission kit, switches or the mechanical valve) you will need to reset the encoder. If you change the control board, the machine will reset it automatically.
Test Display	Tests all the areas of the display. See chart below for 'KEY' areas on display ('KEY 1', KEY 2', etc.).
Electric Test	Used only by production for final tests.
Energy Saving	Energy saving feature that will reduce the temperature for the coffee and steam heaters in standby mode reducing energy consumption when machine is ON but not used. When delivering a beverage, there is no difference. This setting can also be changed by the user on the user interface.



For Service Technician Use Only

To Enter Load Test Mode:

Once LOAD TEST MODE is selected, it is possible to test the following functional parts by pressing on the related display area.

Display	Function
Motor Up	Moves motor in upper position (once the TOP LIMIT SWITCH is reached, a specific message will appear on the screen)
Motor Down	Moves motor in lower position (once the BOTTOM LIMIT SWITCH is reached, a specific message will appear on the screen)
Fan	Activates the cooling fan
Scenario Light	Activates the external light
Grinder	Activates the grinder
Pump	Activates the pump
Steamer	Activates the steamer
Heater	Activates the heater of the generator (thermo block)
Cup Light	Activates the lights above the cup position
EV1 + EV3	Activates the two EV1 and EV3 solenoid valves
EV2	Activates the EV2 solenoid valve

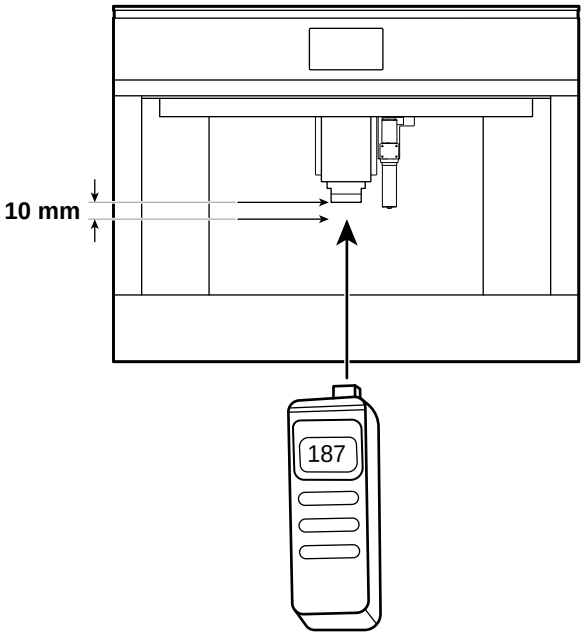
To Exit the Service Mode:

To EXIT the service mode, switch the Main On/Off Switch to OFF or unplug the machine.

Measuring Coffee Temperature

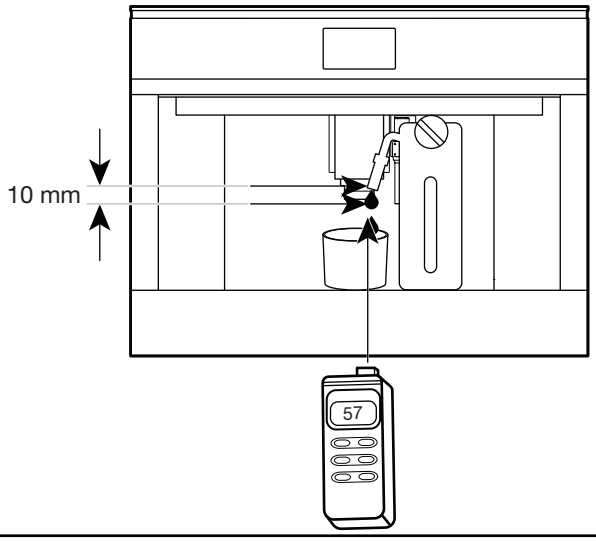
Procedure:

1. Turn the machine on and run a rinse cycle.
2. Set the temperature to the maximum level. Press and select the option “Tall Coffee”.
3. Wait for the container to fill with at least 20 mL of coffee.
4. Measure the flow temperature 5-10 mm away from the spout.
5. The indicative temperature must be 187°F (± 3°F).



Measuring Milk Temperature

1. Turn the machine on.
2. Fill the milk jug with 200 mL of semi skimmed milk at a temperature of 41°F ± 4°F (5°C ± 2°C).
3. Insert the lid to the jug and connect it to the appliance.
4. Turn the froth knob to the maximum level of froth.
5. Place a 250 mL PIREX graduated container under the milk spout.
6. Press and select the option "MILK".
7. Wait for the container to fill with at least 100 mL of frothed milk.
8. Measure the flow temperature 5-10 mm away from the spout.
9. The indicative temperature must be 135-153°F (57°-67°C).
10. The container must have 50% milk and 50% froth without splashes.



For Service Technician Use Only
Customer Instruct and Technical Faults

DISPLAYED MESSAGE	POSSIBLE CAUSE	SOLUTION
ADD PRE-GROUND COFFEE, PRE-GROUND MAXIMUM ONE MEASURING CUP	The “Pre-ground coffee” function has been selected, but without placing any pre-ground coffee in the funnel.	Place pre-ground coffee in the funnel and repeat delivery.
	The funnel for pre-ground coffee is clogged.	Empty the funnel using the brush provided.
	A “Tall” coffee with pre-ground coffee has been requested.	Place pre-ground coffee in the funnel and press ✓ **OK** to continue and complete delivery.
EMPTY GROUND CONTAINER	The grounds container is full.	Empty the grounds container and drip tray, clean and replace them. **IMPORTANT:** When removing the drip tray, the grounds container must always be emptied, even if it contains a few grounds. If this is not done, when you make the next coffees, the grounds container may fill up more than expected and clog the machine.
DESCALING NEEDED, PRESS OK TO START (~45 MIN) ESC OK	Indicates that descaling is needed.	Press ✓ **OK** to start descaling or press ESC **ESC** to descale later. The descaling procedure described in the “Descaling” section needs to be performed.
FILL BEAN CONTAINER	The bean container is empty.	Fill the beans container.
FILL WATER TANK WITH FRESH WATER	The water tank is empty or incorrectly positioned.	Fill the tank with fresh water and or insert it correctly pushing it as far as it will go until it clicks into place.
GENERAL ALARM: REFER TO USER MANUAL	The inside of the coffee system is very dirty.	Clean the inside of the appliance thoroughly. If the message is still displayed after cleaning, contact an authorized Customer Service Center.
SELECT A MILDER TASTE OR REDUCE PRE-GROUND COFFEE QUANTITY ESC	Too much coffee has been used.	Select a milder taste by pressing or reduce the quantity of pre-ground coffee (maximum one measure).
GROUND TOO FINE. ADJUST GRIND LEVEL 1 CLICK WHILE IN OPERATION	The grinding is too fine and the coffee is delivered too slowly or not at all.	Repeat coffee delivery and turn the grinding adjustment dial one click clockwise towards number seven while the coffee mill is in operation. If after making at least two coffees delivery is still too slow, repeat the correction procedure, turning the grinding adjustment dial another click. If the problem persists, make sure the water tank is fully inserted.
	If the water filter is present, an air bubble may have been released inside the circuit, obstructing delivery.	Insert the hot water/steam spout in the appliance and deliver a little fresh water until the flow becomes regular.
INSERT BREWING UNIT	After cleaning, the infuser has not been replaced.	Insert the infuser.
INSERT MILK CONTAINER	The milk container is not inserted correctly.	Insert the milk container as far as it will go.
INSERT GROUND CONTAINER AND DRIP TRAY	After cleaning, the grounds container has not been replaced.	Remove the drip tray and insert the grounds container.

For Service Technician Use Only
Customer Instruct and Technical Faults (Continued)

DISPLAYED MESSAGE	POSSIBLE CAUSE	SOLUTION
INSERT WATER SPOUT	The hot water spout is not inserted or is inserted incorrectly.	Insert the water spout as far as it will go.
WATER CIRCUIT EMPTY PRESS OK TO START FILLING PROCESS	The water circuit is empty.	Press ✓ **OK** and allow fresh water to drain out of the spout; the flow will stop itself automatically. If the problem persists, make sure the water tank is fully inserted.
PRESS OK TO START CLEANING PROCESS OR TURN MILK FROTH ADJUSTMENT KNOB	The milk container has been inserted with the froth adjustment dial in the CLEAN position.	To proceed with the CLEAN function, press ✓ **OK** or turn the froth adjustment dial to one of the milk positions.
TURN THE MILK FROTH ADJUSTMENT KNOB TO START CLEANING	Milk has been delivered recently and the tube inside the milk container must be cleaned.	Turn the froth adjustment dial to CLEAN.
TURN THE MILK FROTH ADJUSTMENT KNOB TO MILK POSITION	The milk container has been inserted with the froth adjustment dial in the CLEAN position.	Turn the dial to the required froth position.
INSERT WATER TANK	The water tank is not installed correctly.	Push the water tank back in until it clicks into place.
	Reminder that the appliance needs descaling and/or the filter must be replaced. **NOTE:** Water filter not available on this model.	The descaling procedure needs to be performed as soon as possible.
	Reminder that the tubes inside the milk container must be cleaned.	Turn the froth adjustment dial to CLEAN.
	Reminder that the machine must be descaled.	The descaling procedure needs to be performed as soon as possible.
	Indicated that the auto-start function is enabled.	Disable the auto-start function from the user SETTINGS menu.
	Energy saving is enabled.	Disable the energy saving mode from the user SETTINGS menu.

For Service Technician Use Only
Troubleshooting

Try the solutions suggested here first in order to avoid the cost of an unnecessary service call.

PROBLEMS	POSSIBLE CAUSE	SOLUTION
The coffee is not hot	The cups have not been preheated.	Enable the cup warmer from the user SETTINGS menu. Place the cups on the heatable coffee cup tray. **OR** Rinse the cups with hot water.
	The infuser has cooled down because over 3 minutes have elapsed since the last drink was made.	Before making coffee, heat the infuser by selecting the Rinse function from the menu. The infuser gets hot during rinsing.
	A low temperature is set.	Set a hotter coffee temperature.
The coffee is too weak or not creamy enough	The coffee is ground too coarsely.	Turn the grinding adjustment dial one click counterclockwise towards number one while the coffee mill is in operation. Continue one click at a time until coffee delivery is satisfactory. The effect can only be noticed after delivering two coffees.
	The blend of coffee is unsuitable.	Use a blend of coffee specifically for espresso coffee machines.
The coffee is delivered a drop a time or too slowly	The coffee is ground too finely.	Turn the grinding adjustment dial one click clockwise towards number seven while the coffee mill is in operation. Continue one click at a time until coffee delivery is satisfactory. The effect can only be noticed after delivering two coffees.
The coffee is only coming out of one of the holes in the coffee spouts or is not coming out at all	The holes in the coffee spouts are clogged.	Clean the holes in the coffee spouts.
The milk contains large bubbles and squirts out of the milk spout or there is little froth	The milk is not cold enough or is not semi-skimmed or skimmed.	Use fully skimmed or semi-skimmed milk at refrigerator temperature 5°C (41°F). If results are still not satisfactory, try changing brand of milk.
	The froth adjustment dial is incorrectly adjusted.	Turn the adjusting dial to the left or right until set to the recommended position.
	The milk container lid or froth adjustment dial is dirty.	Clean the lid and adjusting dial of the milk frother.
	The hot water/steam connection nozzle is dirty.	Clean the connection nozzle.
The milk does not come out from the milk spout	The lid of the milk frother is dirty.	Clean the lid of the milk frother.
	The milk tube has not or not correctly been inserted.	Insert the milk tube in the milk frother lid.
The appliance does not come on	The power cord is not plugged in to the electrical outlet. Power to the appliance is disconnected.	Plug in appliance or connect power.
	The main ON/OFF switch is not turned ON.	Turn the appliance off by pressing the ⏻ button.
The infuser cannot be extracted	The appliance has not been switched OFF correctly.	Turn the appliance off by pressing the ⏻ button.

For Service Technician Use Only
Troubleshooting (Continued)

PROBLEMS	POSSIBLE CAUSE	SOLUTION
The appliance requires a third rinse cycle at the end of descaling	The water tank was not filled to the MAX level.	Empty the drip tray. Follow the instructions displayed by the appliance and perform a third rinse cycle.
The appliance emits noises or small puffs or steam while not in use	The appliance is ready for use or has been recently switched OFF. Condensate is dripping into the vaporizer.	This is normal. To limit this, empty the drip tray.

For Service Technician Use Only
Notes

Section 3: Component Testing

This section provides the wiring diagram and component location for the “JennAir Built-in Coffee System.”

- Safety
- Wiring Diagram
- Ladder Diagram
- Main Board
- LED-fan PCB
- Water Flow Diagram
  - Coffee/Hot Water Circuit
  - Steam Water Circuit
- Component Testing Chart
- Strip Circuit

For Service Technician Use Only

Safety

⚠ DANGER

Electrical Shock Hazard

Only authorized technicians should perform diagnostic voltage measurements.

After performing voltage measurements, disconnect power before servicing.

Failure to follow these instructions can result in death or electrical shock.

⚠ WARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

Voltage Measurement Safety Information

When performing live voltage measurements, you must do the following:

- **Verify the controls are in the off position so that the appliance does not start when energized.**
- **Allow enough space to perform the voltage measurements without obstructions.**
- **Keep other people a safe distance away from the appliance to prevent potential injury.**
- **Always use the proper testing equipment.**
- **After voltage measurements, always disconnect power before servicing.**

IMPORTANT: Electrostatic Discharge (ESD) Sensitive Electronics

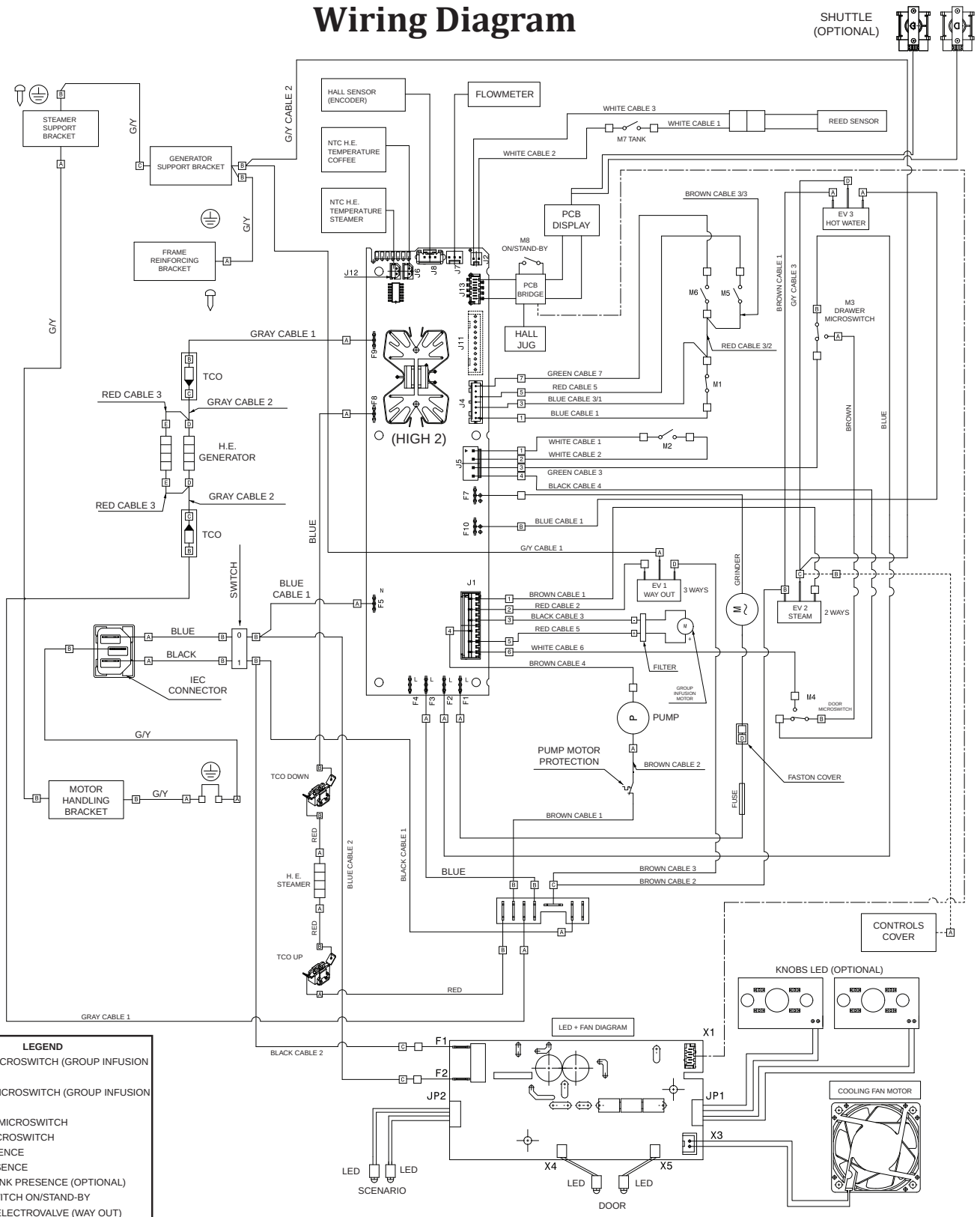
ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

- Use an antistatic wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance

  -OR-

  Touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.
- Before removing the part from its package, touch the antistatic bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by edges only.
- When repackaging failed electronic control assembly in antistatic bag, observe above instructions.

For Service Technician Use Only
Wiring Diagram



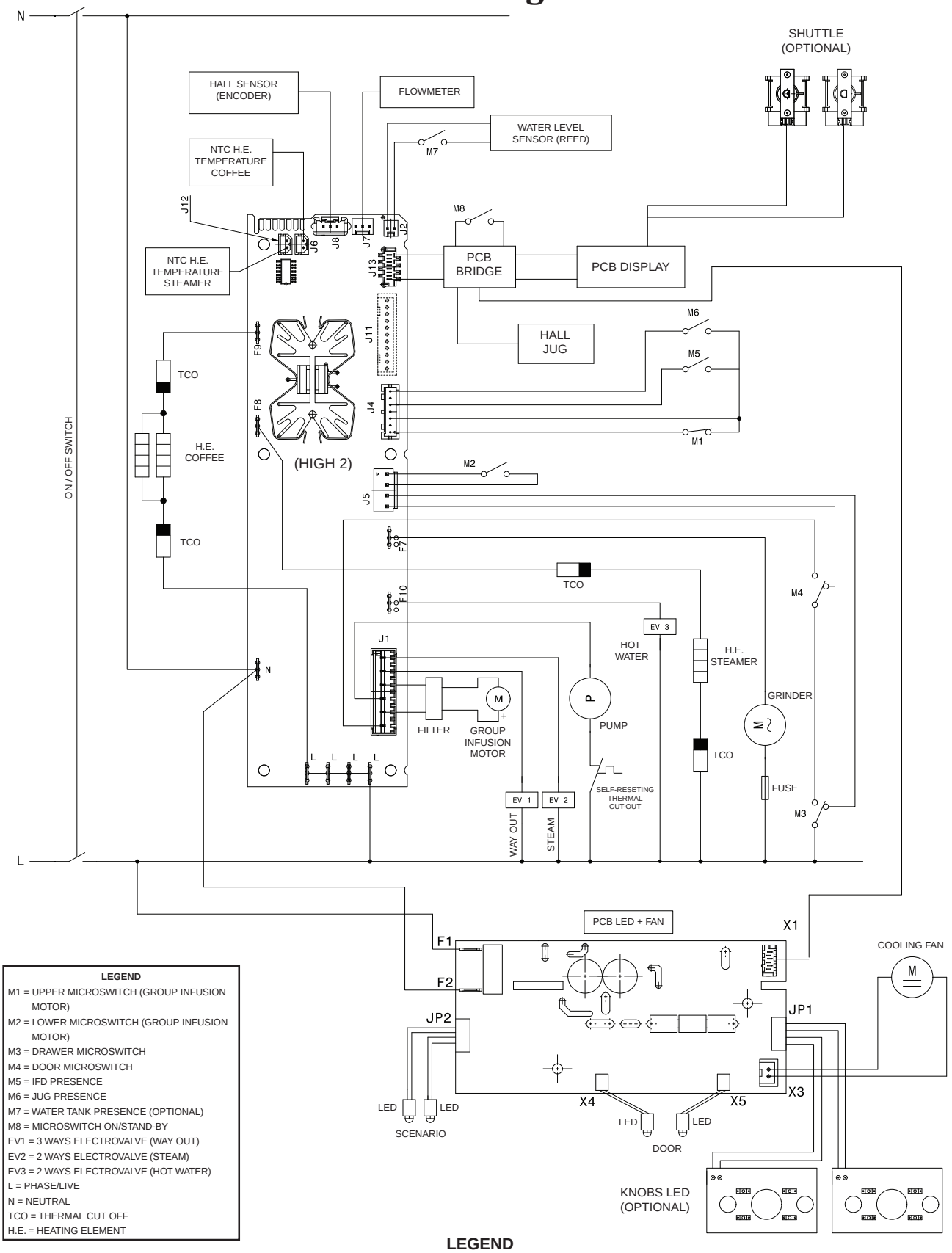
LEGEND

- M1 = UPPER MICROSWITCH (GROUP INFUSION MOTOR)
- M2 = LOWER MICROSWITCH (GROUP INFUSION MOTOR)
- M3 = DRAWER MICROSWITCH
- M4 = DOOR MICROSWITCH
- M5 = IFD PRESENCE
- M6 = JUG PRESENCE
- M7 = WATER TANK PRESENCE (OPTIONAL)
- M8 = MICROSWITCH ON/STAND-BY
- EV1 = 3 WAYS ELECTROVALVE (WAY OUT)
- EV2 = 2 WAYS ELECTROVALVE (STEAM)
- EV3 = 2 WAYS ELECTROVALVE (HOT WATER)
- L = PHASE/LIVE
- N = NEUTRAL
- TCO = THERMAL CUT OFF
- H.E. = HEATING ELEMENT

LEGEND

Connection	No Connection	On Some Models	In-Line Connection	P2-1 Connector P2, Position 1	Circuitry Enclosed Within	Terminals	Single Switch	Thermal Switch (opens on heat rise)	Thermal Switch (closes on heat rise)	Resistor or Element	Motor	Incandescent Light	Non-resettable Fuse	Thermistor	Indicator Light	Triac	Thermo Fuse

For Service Technician Use Only
Ladder Diagram



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EV2 = 2 WAYS ELECTROVALVE (STEAM)
EV3 = 2 WAYS ELECTROVALVE (HOT WATER)
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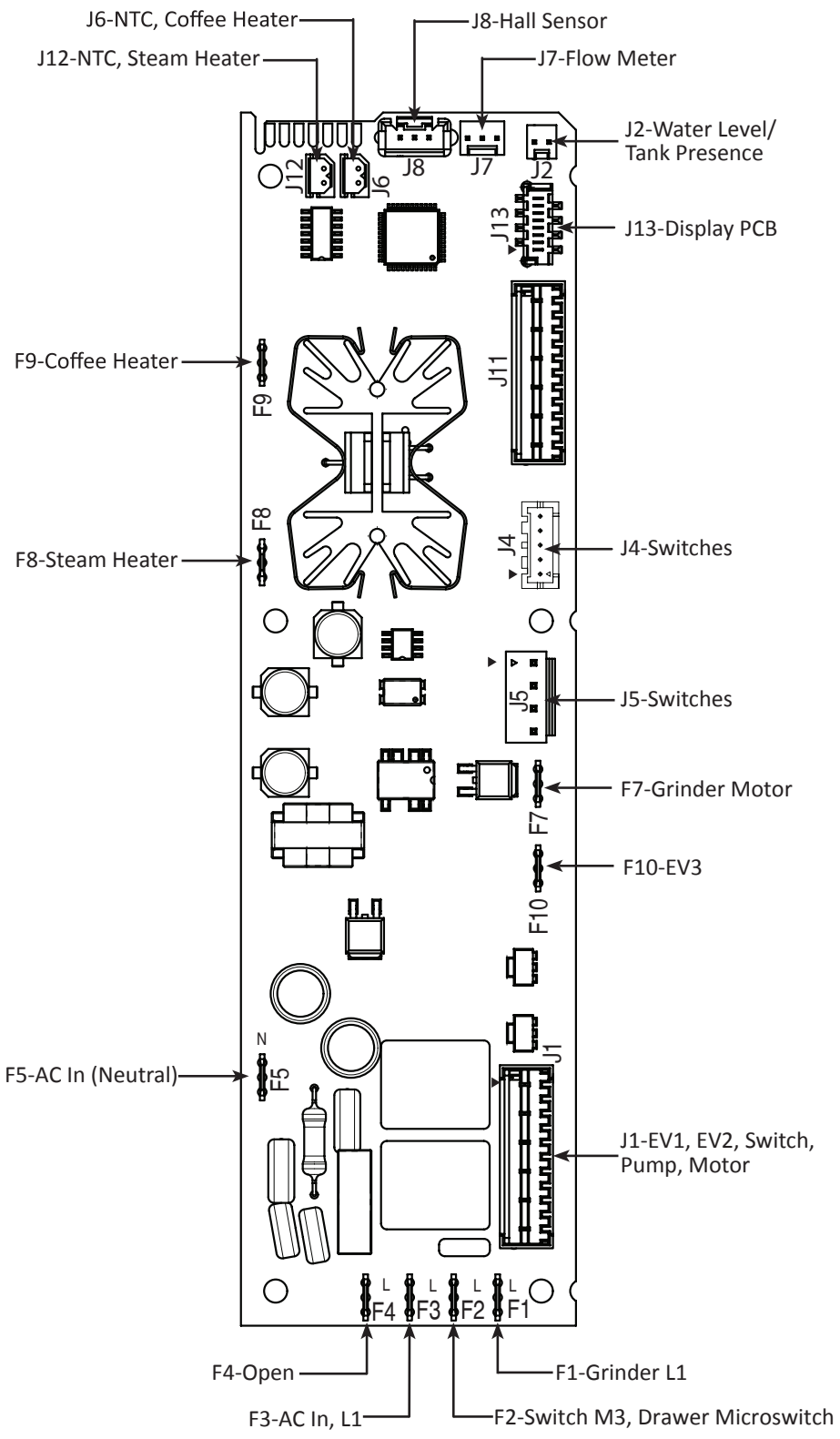
For Service Technician Use Only
Main Board



CONNECTOR PIN-OUTS

CONNECTOR J1
(Valves, M4 Switch, Pump, Motor)

J1-1	120 VAC, EV2 (2-Way Valve)
J1-2	120 VAC, EV1 (3-Way Valve)
J1-3	GND, Diverter Motor
J1-4	120 VAC, Pump
J1-5	140 VDC, Diverter Motor
J1-6	120 VAC, Switch M4, Service Dr

CONNECTOR J2
(Water Level/Tank Presence)

J2-1	Water Level/Tank Presence Input
J2-2	GND

CONNECTOR J4
(Switches, M1, M5, M6)

J4-1	Switch M1, Diverter Upper Pos.
J4-2	Not Used
J4-3	Switch M1, M5, M6 VDC
J4-4	Not Used
J4-5	Switch M5, Carafe Presence
J4-6	Not Used
J4-7	Switch M6, Hot Water Dispenser

CONNECTOR J5
(Switches, M2, M3, M4)

J5-1	Switch M2, Diverter Lower Pos.
J5-2	Switch M2, VDC
J5-3	Switch M3, Coffee Gr. Container
J5-4	Switch M4, Service Door

CONNECTOR J6
(NTC, Coffee Heater)

J6-1	VDC
J6-2	NTC Input

CONNECTOR J7
(Flow Meter)

J7-1	Signal (Max 5 VDC)
J7-2	GND
J7-3	+5 VDC

CONNECTOR J8
(Hall Sensor)

J8-1	+5 VDC
J8-2	Signal (Max 5 VDC)
J8-3	GND

For Service Technician Use Only

Main Board

CONNECTOR PIN-OUTS

CONNECTOR J12
(NTC, Steam Heater)

J12-1 VDC
J12-2 NTC Input

CONNECTOR J13
(Display PCB)

J13-1 +5 VDC
J13-2 TX BUS (Max 5 VDC)
J13-3 TX BUS (Max 5 VDC)
J13-4 GND
J13-5 -7 VDC
J13-6 Data Out (Max 5 VDC)
J13-7 Data In (Max 5 VDC)
J13-8 Clock (Max 5 VDC)

TERMINAL PINS

TERMINAL F1
(Grinder Motor, L1)

TERMINAL F2
(Switch M3, Drawer Microswitch)

TERMINAL F3
(AC In, L1)

TERMINAL F4
Open

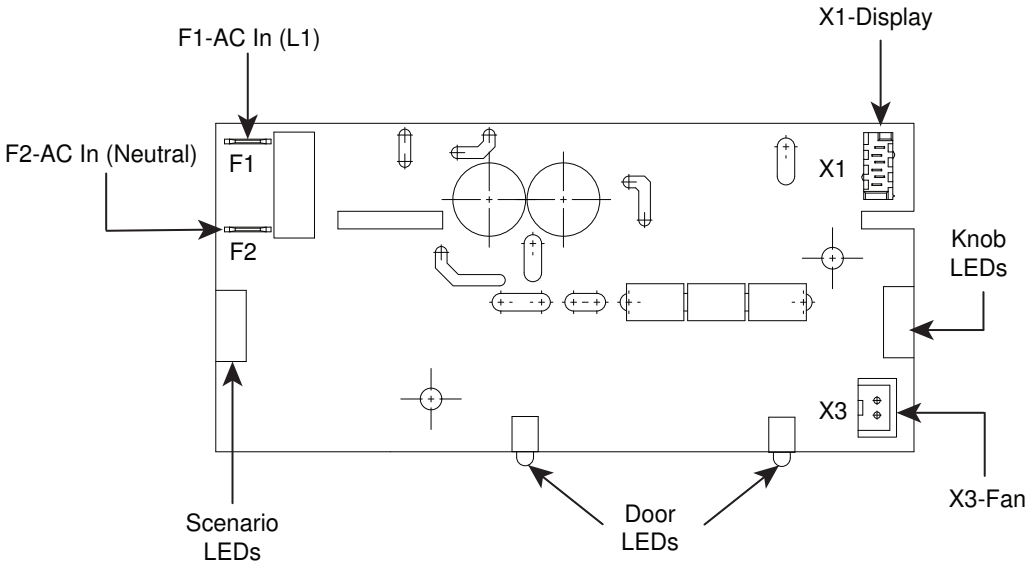
TERMINAL F5
(AC In, Neutral)

TERMINAL F7
(Grinder Motor)

TERMINAL F8
(Steam Heater)

TERMINAL F9
(Coffee Heater)

LED-Fan PCB



CONNECTOR PIN-OUTS

CONNECTOR X3
(FAN)

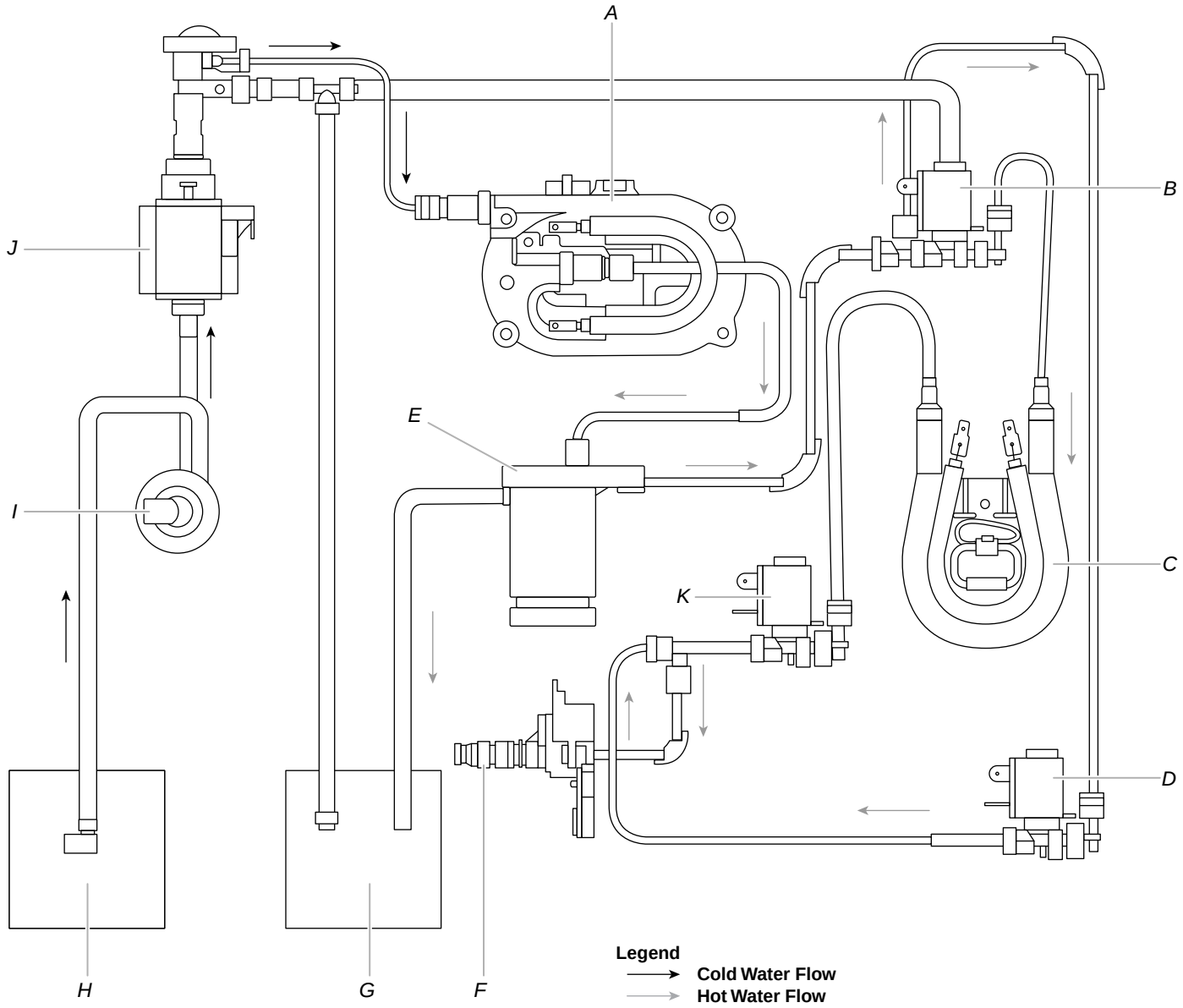
X3-1 +12 VDC
X3-2 GND

TERMINAL F1
AC In, L1

TERMINAL F2
AC In, Neutral

For Service Technician Use Only
Water Flow Diagram

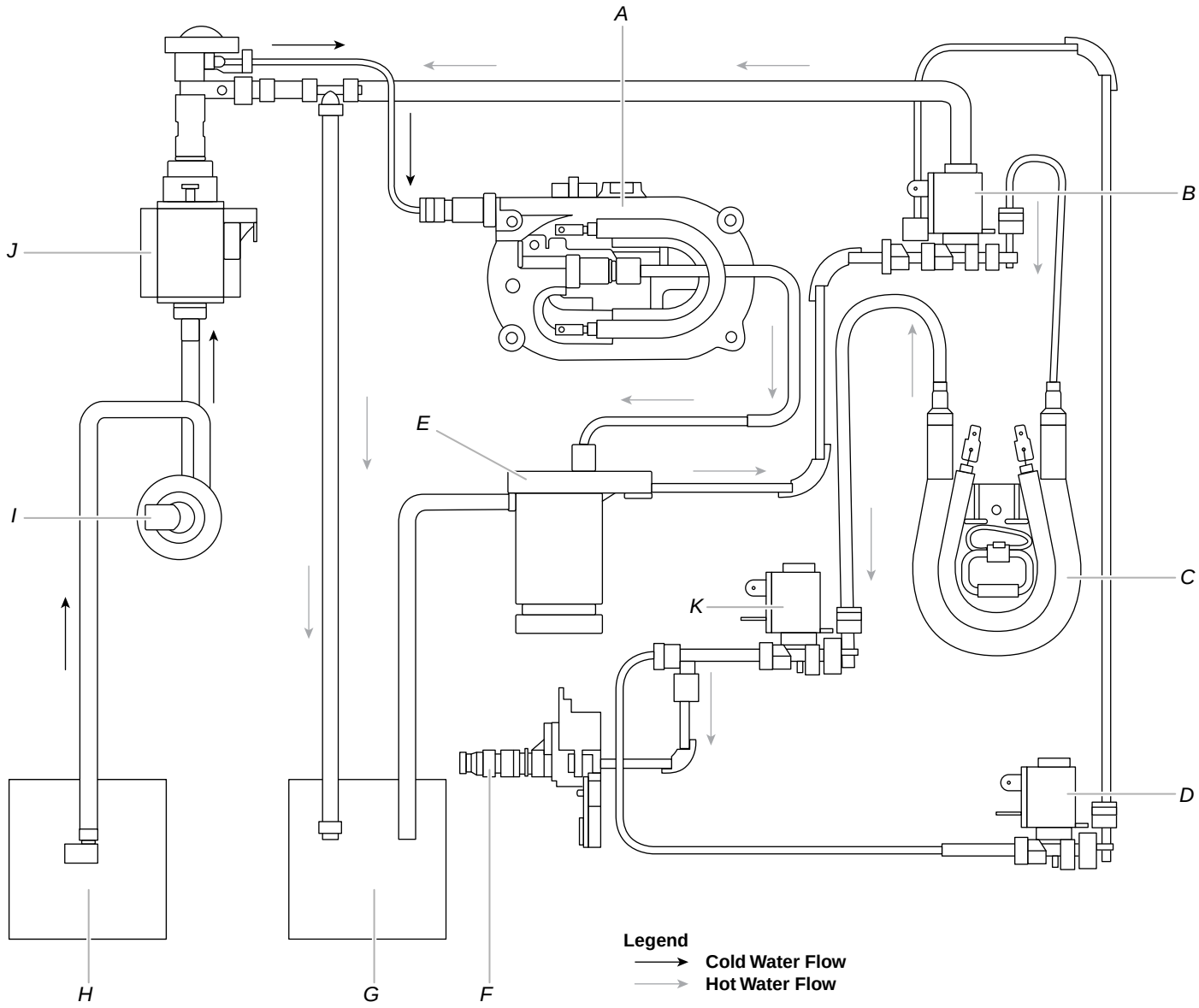
Coffee/Hot Water Circuit



A. Coffee heater
B. EV1, 3-Way valve
C. Steam heater
D. EV2, 2-Way valve
E. Infusion unit
F. Hot water dispenser
G. Drip tray
H. Water tank
I. Flowmeter
J. Pump
K. EV3, 2-Way valve

For Service Technician Use Only
Water Flow Diagram (Continued)

Steam Water Circuit



A. Coffee heater
B. EV1, 3-Way valve
C. Steam heater
D. EV2, 2-Way valve
E. Infusion unit
F. Hot water dispenser
G. Drip tray
H. Water tank
I. Flowmeter
J. Pump
K. EV3, 2-Way valve

For Service Technician Use Only
Component Testing Chart

Unplug coffee system or disconnect power before performing the following checks:

- A potential cause of a control not functioning is corrosion on connections. Observe connections and check for continuity with an ohmmeter.
- All tests/checks should be made with a VOM or DVMhaving a sensitivity of 20,000 Ω per VDC or greater.
- Check all connections before replacing components, looking for broken or loose wires, failed terminals, or wires not pressed into connectors far enough. Damaged harness must be entirely replaced. Do not rework a harness.
- Resistance checks must be made with power cord unplugged from outlet, and with wiring harness or connectors disconnected.

Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than 120 +10%/-15% V power supply.

The coffee system must be unplugged or the power disconnected when measuring resistance.

When checking for proper voltage, complete the following steps:

1. Disconnect power.
2. Connect voltage measurement equipment.
3. Reconnect power and confirm voltage reading.
4. Disconnect power after performing voltage measurements.

COMPONENT	FROM	TO	VOLTAGE	RESISTANCE	NOTES
UI/Display PCB	Main Board - J13	Main Board - J13	Pin 1 = +5 VDC Pin 2 = TX BUS (MAX 5 V) Pin 3 = TX BUS (MAX 5 V) Pin 4 = GND Pin 5 = -7 VDC Pin 6 = DATA OUT (MAX 5 VDC) Pin 7 = DATA IN (MAX 5 VDC) Pin 8 = CLOCK (MAX 5 VDC)	N/A	Connector going to Display PCB. Supplies circuit ground, +5 VDC, -7 VDC and transmission lines. **NOTE:** 12 VDC is provided when measuring the differential between +5 VDC and -7 VDC.
EV1, 3-Way Valve	L1 Junction Block	Main Board J1-2	120 VAC	458K ohms	Drain Valve is grounded to heat exchanger support.
EV2, 2-Way Valve	L1 Junction Block	Main Board J1-1	120 VAC	444 ohms	Water Valve is grounded to upper reinforcement, lower and upper Main Board cover, and heat exchanger support.
EV3, 2-Way Valve (Hot Water)	L1 Junction Block	Main Board - F10	120 VAC	444 ohms	Valve is grounded to upper reinforcement, lower and upper Main Board cover, and heat exchanger support.
Fan Cooling	LED Fan PCB - X3	LED Fan PCB - X3	Pin 1 = +12 VDC (red) Pin 2 = GND (black)	N/A	Digital motor - resistance cannot be measured.
Flowmeter	Main Board - J7	Main Board - J7	Pin 1 - 2 = 5 VDC Pin 2 - 3 = 0 VDC Pin 2 - 3 = 5 VDC	N/A	The Flowmeter measures the water used.
Grinder Motor	F1 (L1)	Main Board - F7	120 VAC	13.1 ohms	Can be adjusted only while grinding.
Hall Sensor	Main Board - J8	Main Board - J8	Pin 1 = +5 VDC (black) Pin 2 = Signal (max 5 VDC) (gray) Pin 3 = GND (gray)	N/A	Current sensor on the diverter motor assembly that identifies the position of the diverter motor.
Coffee Heater	L1 Junction Block	Main Board - F9 (N)	120 VAC	11.4 ohms	Dual heater element (23 ohms/heater). Check TCOs if circuit is open.
Steam Heater	L1 Junction Block	Main Board - F8 (N)	120 VAC	15.4 ohms	Check TCO if circuit is open.
Group Infusion Motor	J1-5	J1-3	140 VDC*	62 ohms	*Voltage polarity reverses to drive the motor up and down

For Service Technician Use Only
Component Testing Chart (Continued)

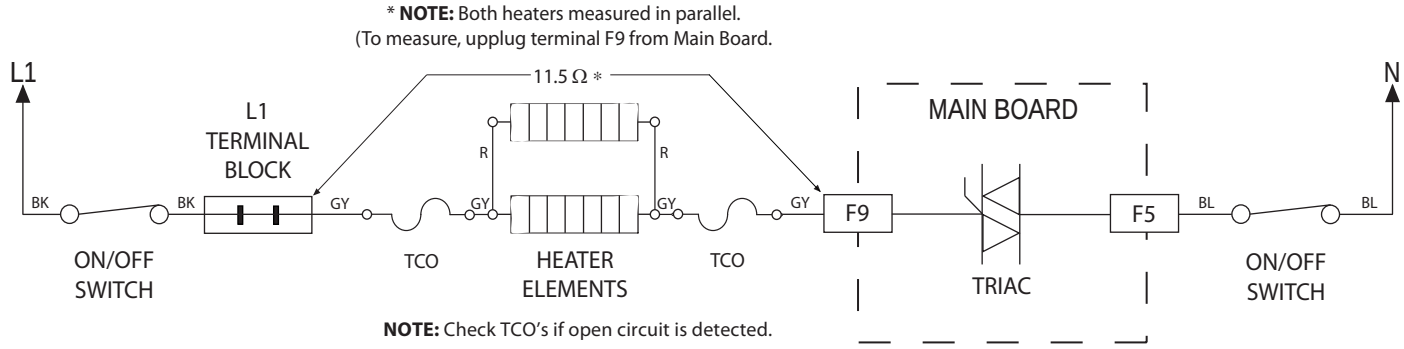
COMPONENT	FROM	TO	VOLTAGE	RESISTANCE	NOTES
Power In (Main Board)	Main Board - F3 (L1)	Main Board - F5 (N)	120 VAC	N/A	Main Board AC in
Power In (LED Fan PCB)	LED Fan - F1 (L1)	LED Fan - F2 (N)	120 VAC	N/A	LED Fan PCB AC in
Pump	L1 Junction Block	Main Board - J1-4	120 VAC	6.2 ohms	Note polarity - Positive side is connected to J1-4. If meter leads are reversed, the coil will show open.
NTC, Coffee	Main Board - J6	Main Board - J6		90K ohms	Room Temperature
NTC, Steamer	Main Board - J12	Main Board - J12		112K ohms	Room Temperature
Water Level Sensor	Main Board - J2	Main Board - J2		Continuity	Reed switch located at bottom of water tank. This is in series with the Water Tank Switch.
Switch M1, Group Infusion,Upper	Main Board - J4-1	Main Board - J4-3		Continuity	On top of diverter assembly, next to grinder motor.
Switch M2, Group Infusion, Lower	Main Board - J5-1	Main Board - J5-2		Continuity	Located behind the drive motor for diverter.
Switch M3, Coffee Grounds Container	Main Board - J5-3	Main Board - F2		Continuity	Coffee grounds container removed = open circuit, if container installed = continuity 3-wire switch located behind main board.
Switch M4, Service Door	Main Board - J1-6	Main Board - F7		Continuity	*Service door closed = continuity, door open = open circuit. 3-wire switch located behind main board.
Switch M5, Carafe Presence	Main Board - J4-3	Main Board - J4-5		Continuity	Located behind the hot water dispenser tube.
Switch M6, Hot Water Dispenser	Main Board - J4-3	Main Board - J4-7		Continuity	Located behind the hot water dispenser tube.
Switch M7, Water Tank	Main Board - J2-1	Main Board - J2-2		Continuity	This switch is located above the water tank at rear of coffee system. This switch is in series with the Water Level Sensor.
Switch M8, Standby (Momentary)	Display/UI PCB	Display/UI PCB		Continuity*	*Reads continuity only when switch is depressed.
Switch, Power	Switch-pin 1	Switch - pin 0		Continuity	Switch Open = Infinity, Switch closed = < 3 ohms

NOTE: When each switch is activated, the control will beep (sound a tone).

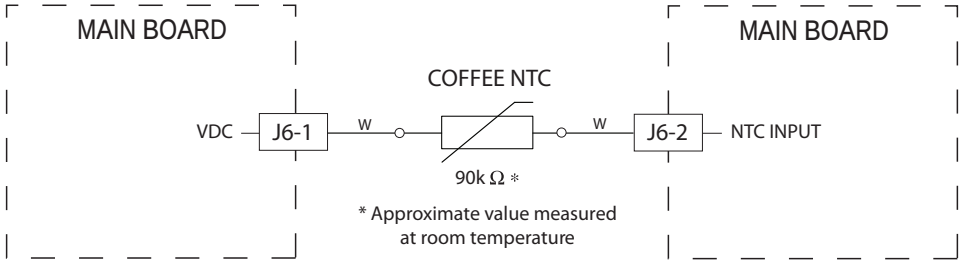
For Service Technician Use Only
Strip Circuits

Coffee Heater System

Coffee Heater

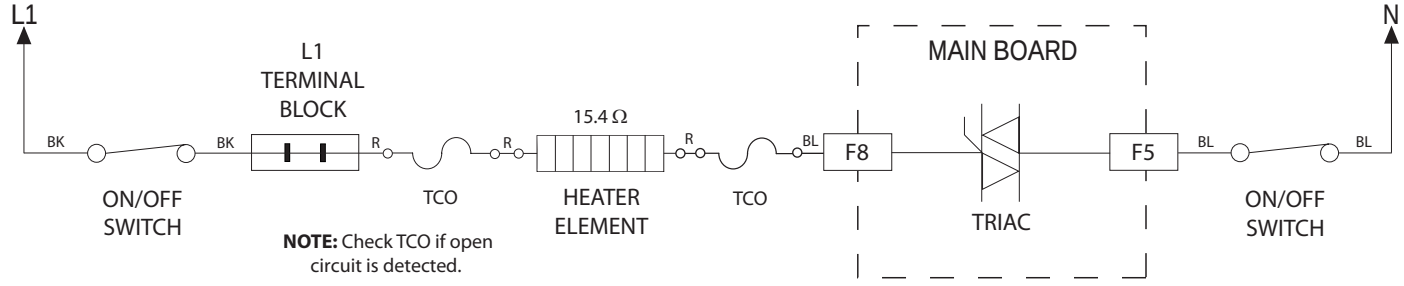


Coffee Heater NTC

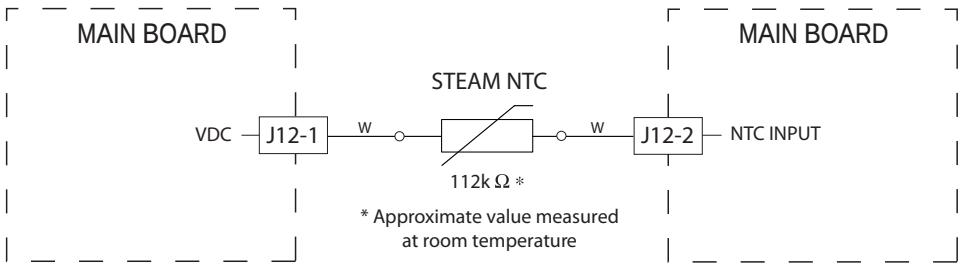


Steam Heater System

Steam Heater



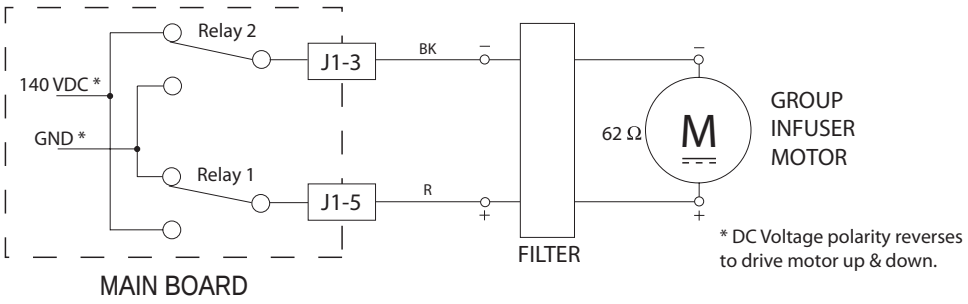
Steam Heater NTC



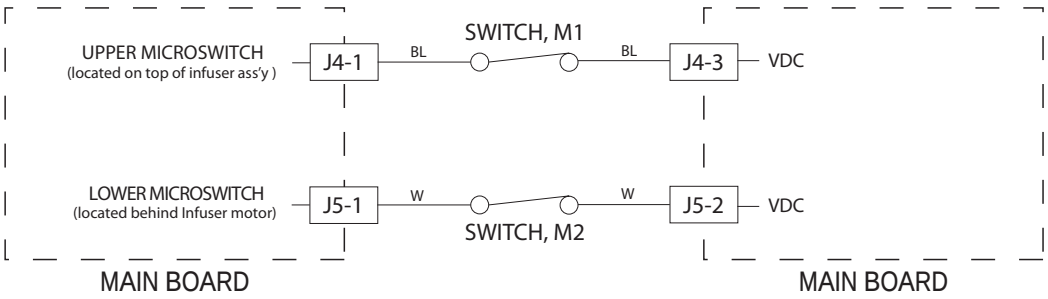
For Service Technician Use Only
Strip Circuits

Diverter Assembly

Group Infusion Motor

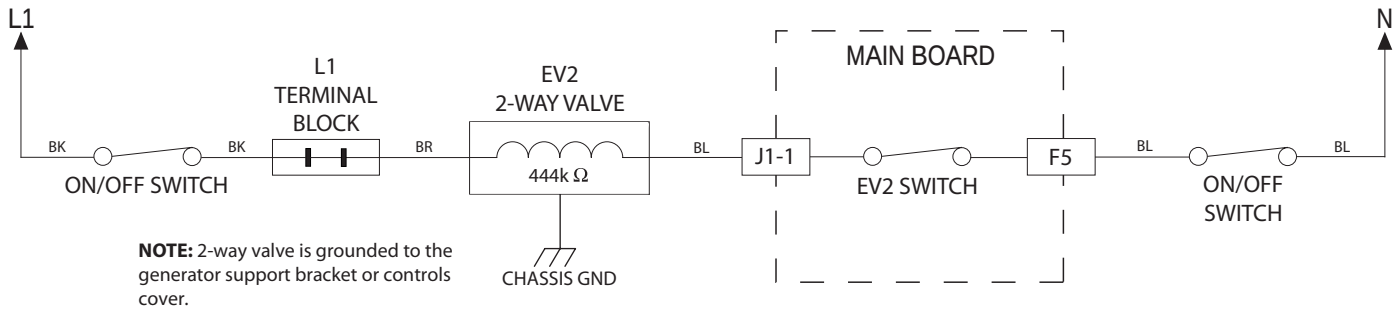


Group Infusion Motor Microswitches



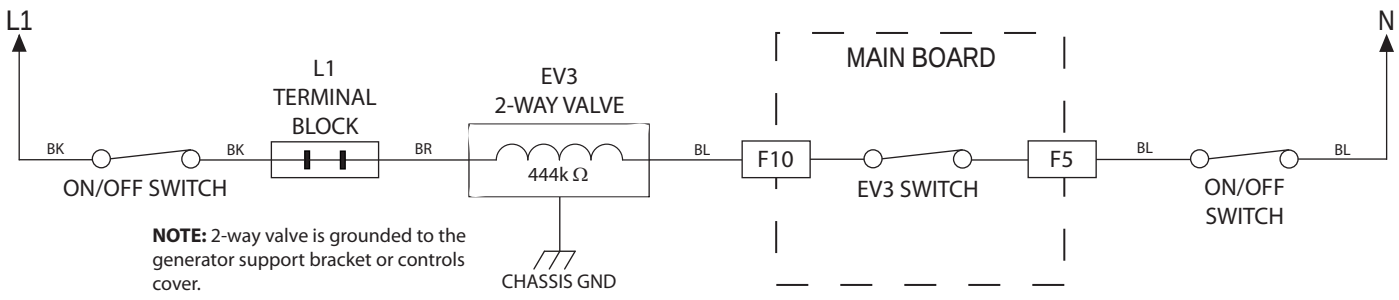
Valve Assemblies

2-Way Valve



NOTE: 2-way valve is grounded to the generator support bracket or controls cover.

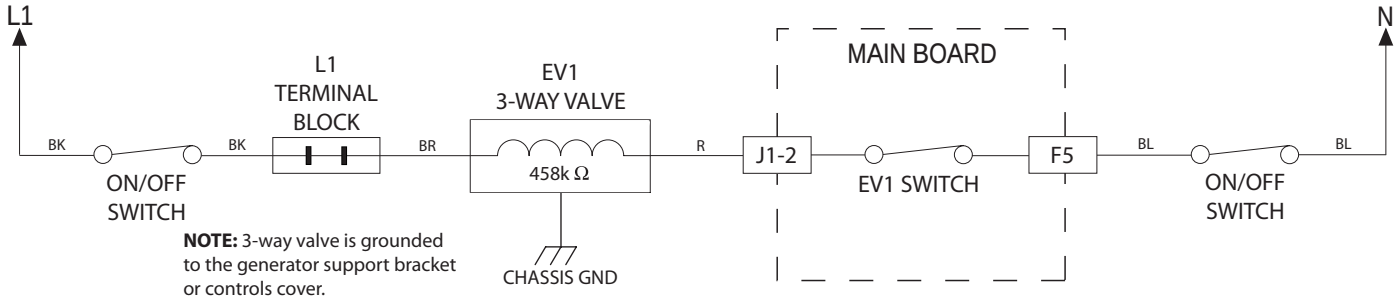
2-Way Valve (Hot Water)



NOTE: 2-way valve is grounded to the generator support bracket or controls cover.

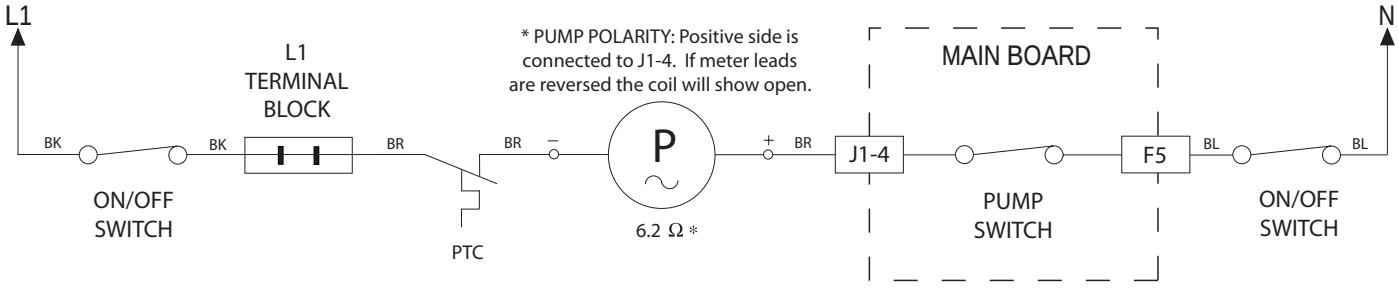
For Service Technician Use Only
Strip Circuits

3-Way Valve

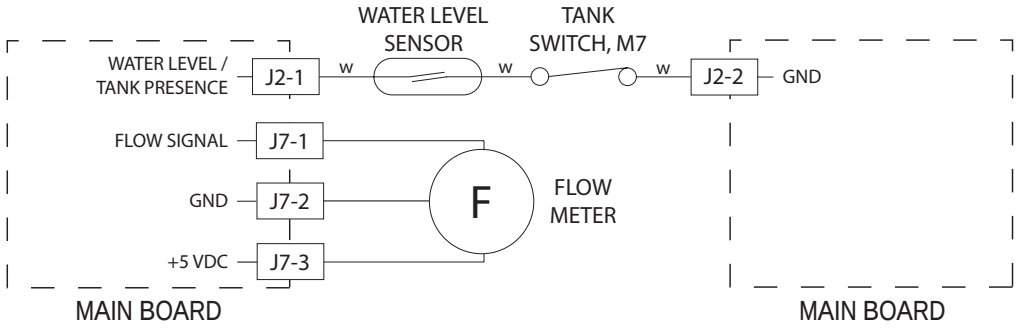


Plumbing Circuit

Pump

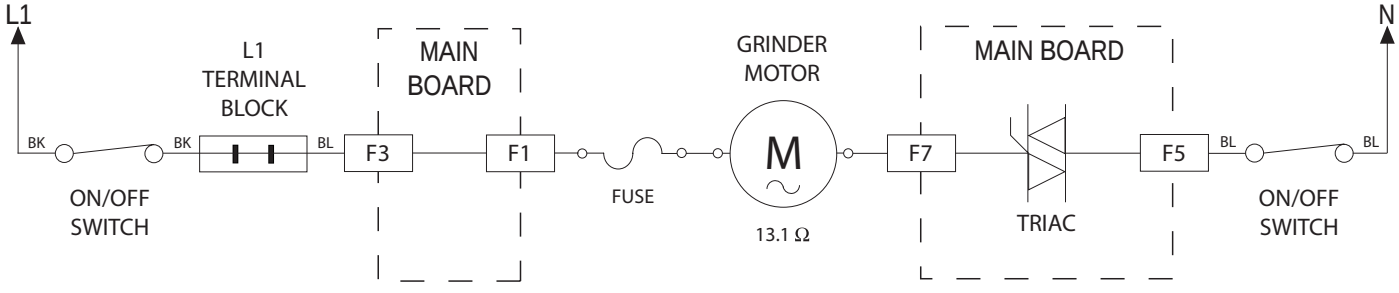


Water Flow / Switches



Coffee Grinder

Grinder Motor



For Service Technician Use Only

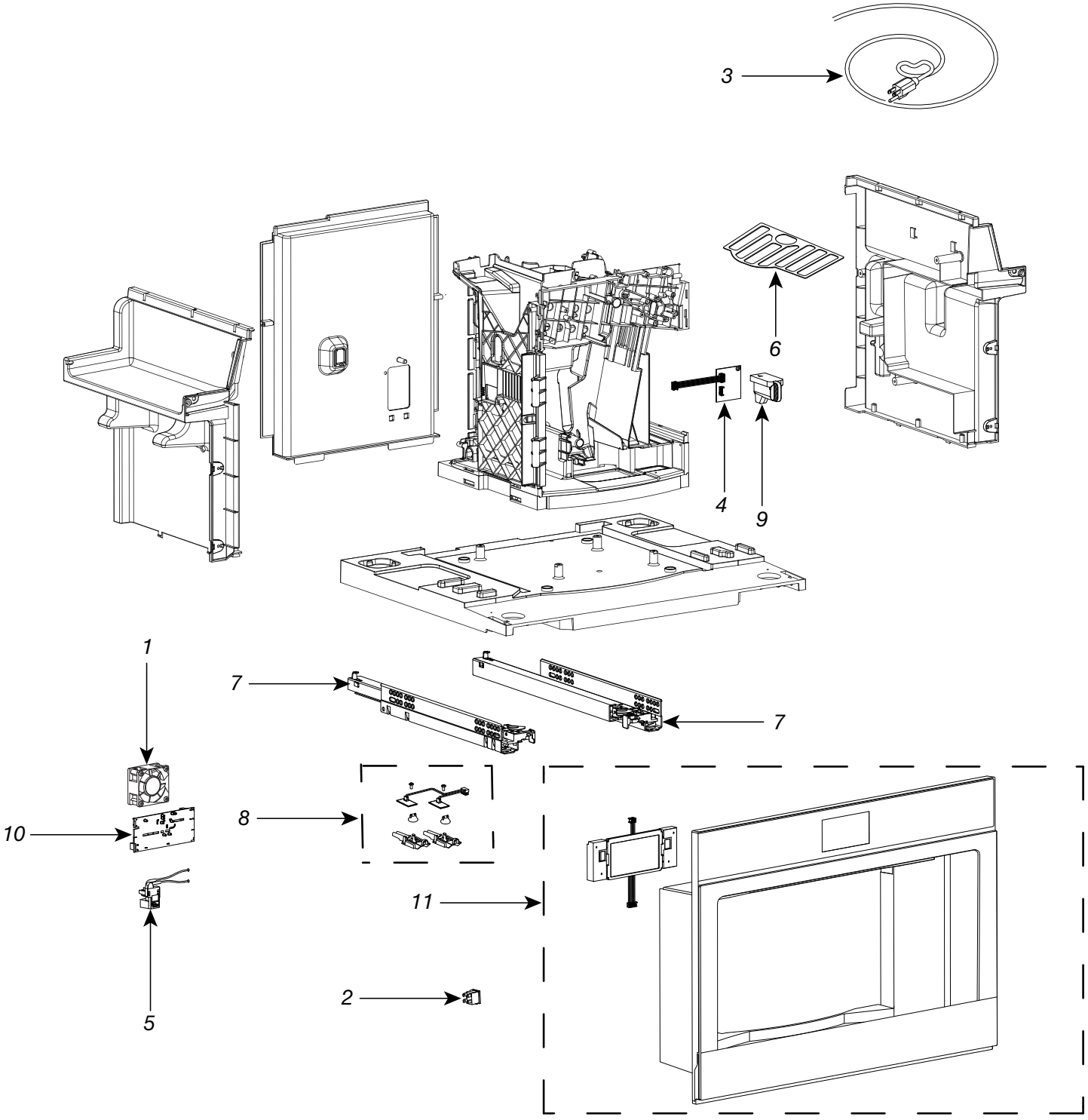
Notes

Section 4: Component Access

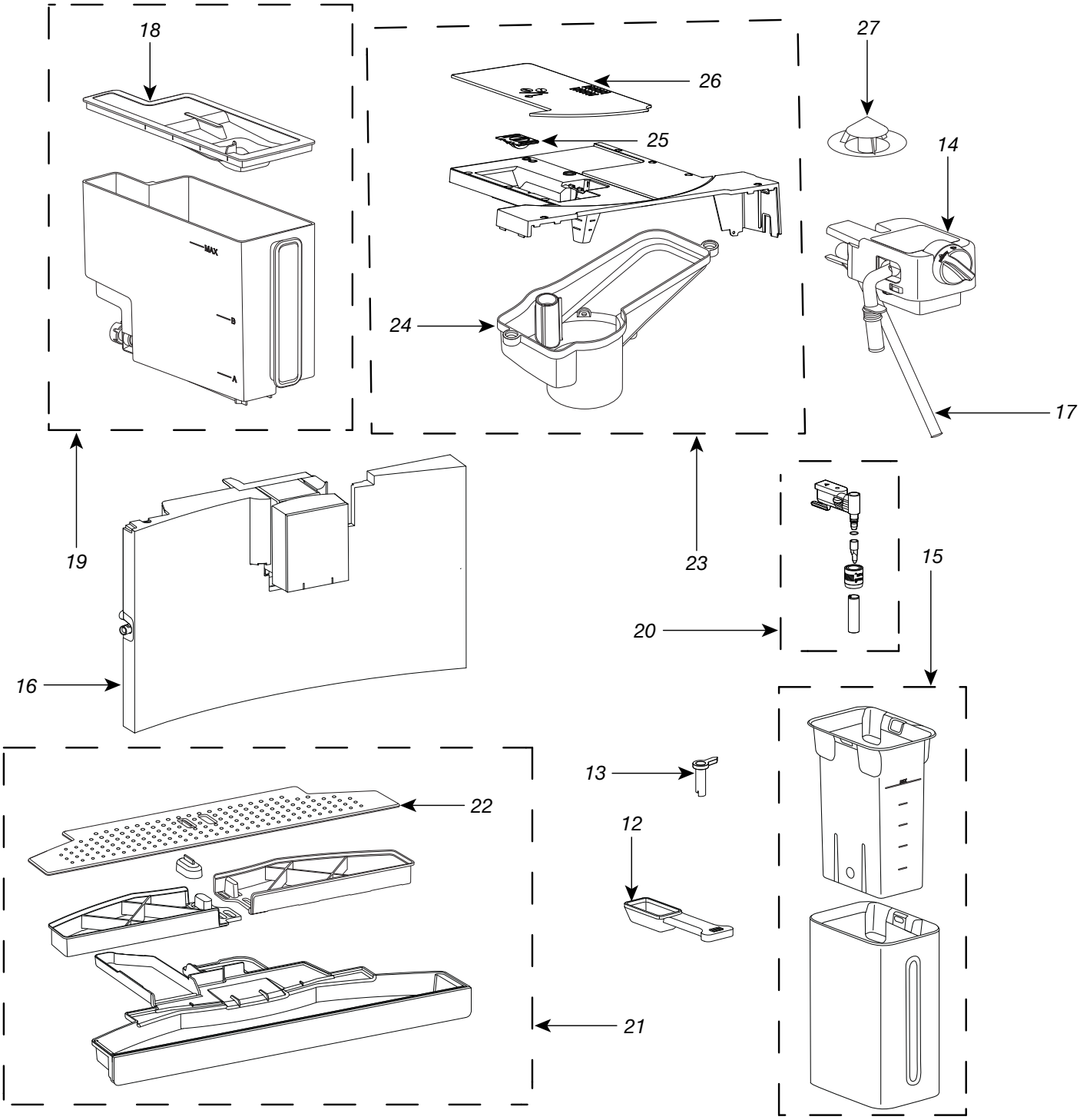
This section provides service parts access, removal, and installation instructions for the “JennAir Built-in Coffee System.”

- Coffee System Exploded Views
- Coffee System Parts List
- Before Disassembling the Coffee System
- Removing the Top Panel and Fan Panel
- Removing the Back Panel and Side Panel
- Removing the Main Power Board
- Removing the Grinder Assembly
- Grinder Setup
- Removing the Flow Meter
- Removing the Water Pump
- Removing the Steam Heater and 3-Way Valve
- Removing the Transmission Assembly
- Removing the Coffee Heater and Mechanical Valve
- Removing the LED and Fan Board
- Removing the Front Panel and Front Door
- Removing the 2-Way Solenoid Valves
- Removing IFD (Instant Froth Dispenser)

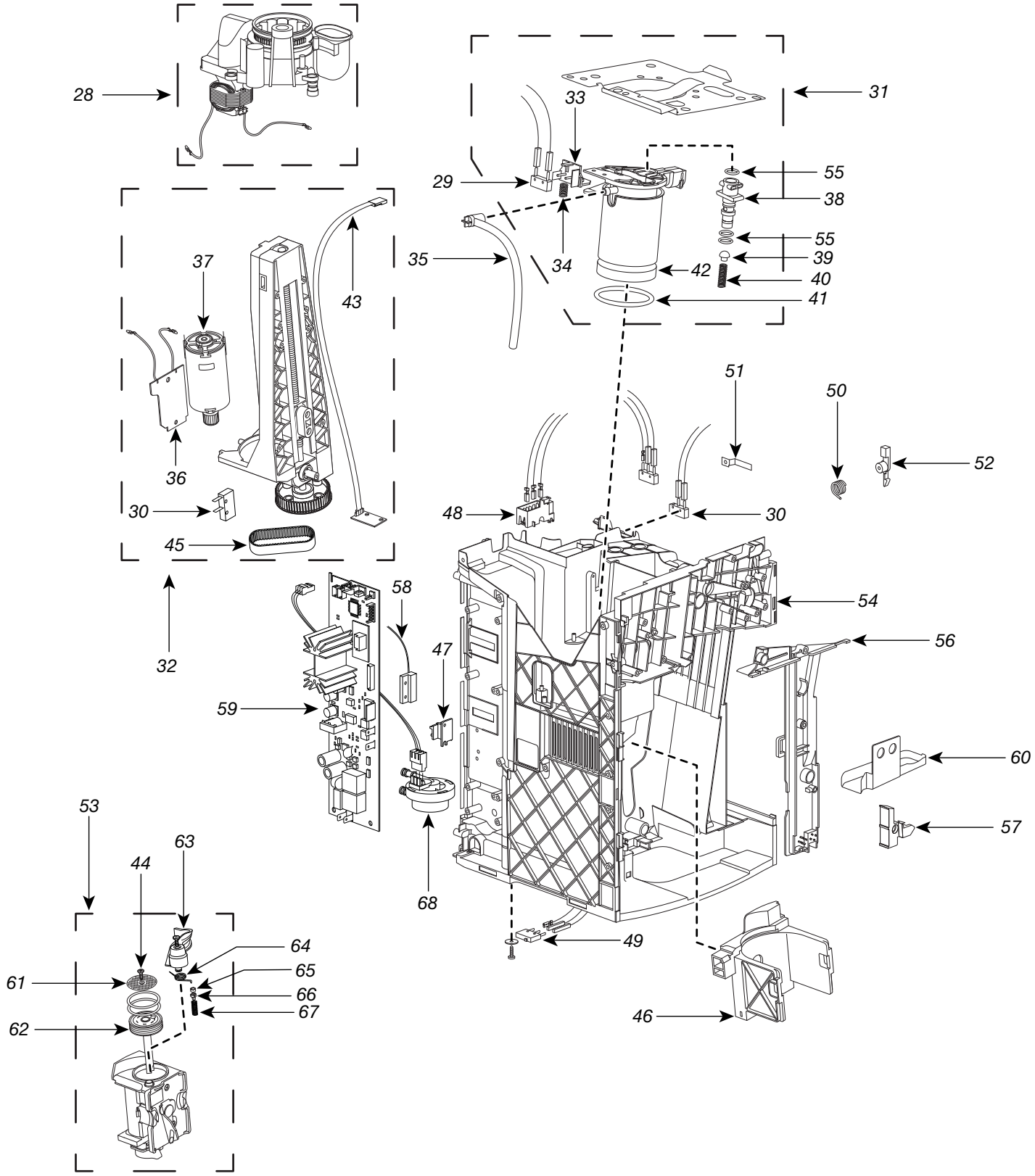
Coffee System Exploded Views



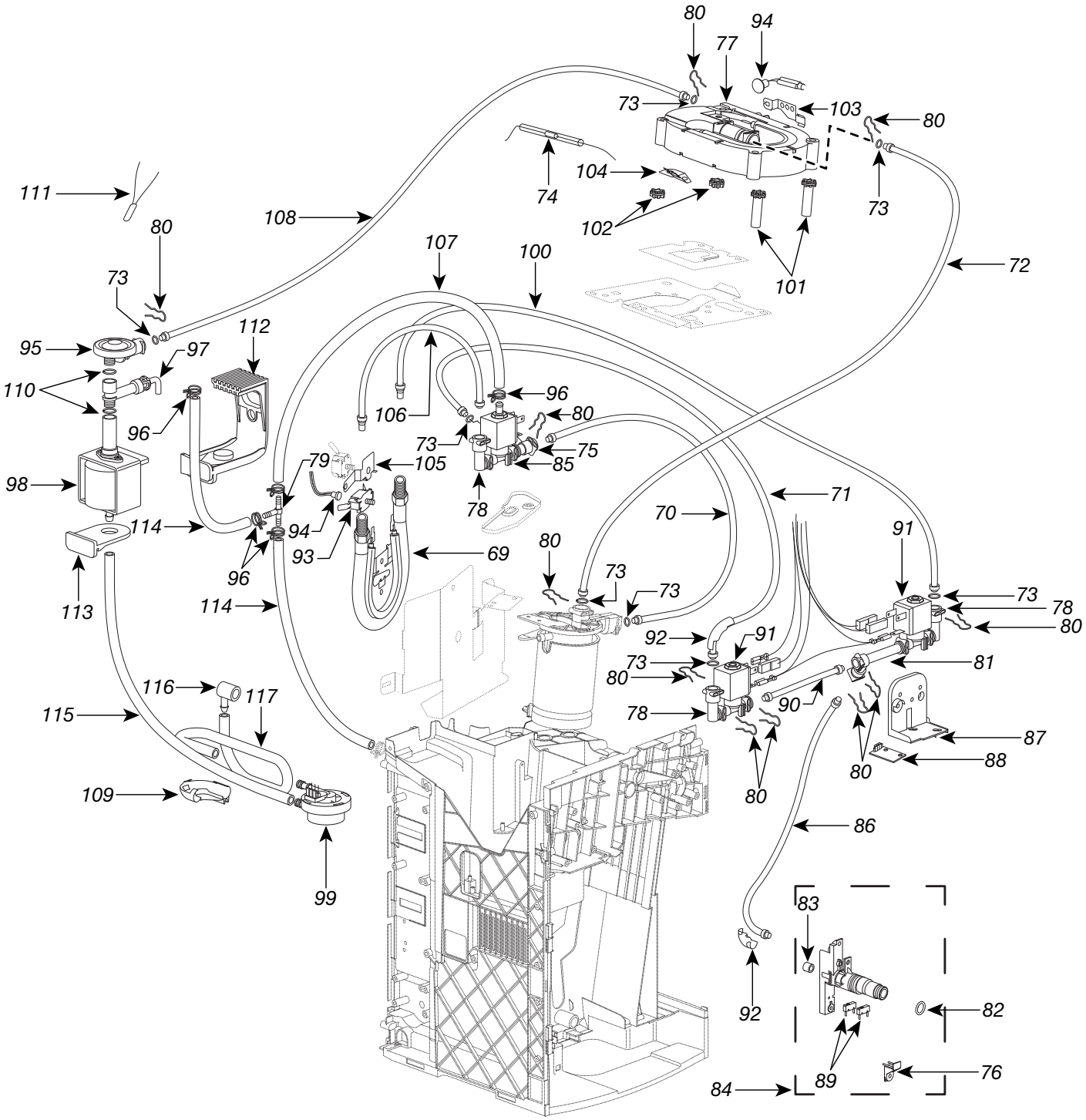
Coffee System Exploded Views



Coffee System Exploded Views



Coffee System Exploded Views



Coffee System Part List

CALLOUT	PART DESCRIPTION	CALLOUT	PART DESCRIPTION
001	FAN, BLOWER	045	BELT, TRANSMISSION
002	SWITCH	046	HOUSING, INFUSION SLIDE
003	POWER CORD	047	SUPPORT, REED
004	BOARD, CONTROL	048	TERMINAL BOARD
005	MICROSWITCH	049	MICROSWITCH
006	GRID	050	SPRING
007	RAIL, MOUNTING	051	SPRING
008	BOARDS, LED	052	CAM, TANK
009	COVER	053	INFUSOR ASSEMBLY
010	BOARD, LED	054	FRAME
011	FRAME, FRONT PANEL	055	SEAL, O-RING
012	SPOON, MEASURING	056	COVER, EXPANSION CHAMBER
013	KNOB, GRINDER	057	LATCH, DRIP TRAY
014	LID, CARAFE	058	SWITCH, WATER TANK
015	CARAFE, MILK	059	CONTROL BOARD
016	DOOR, DISPENSER SERVICE	060	DUCT, LEAK
017	TUBE, WATER INLET	061	FILTER
018	COVER, WATER RESERVOIR	062	PISTON
019	WATER RESERVOIR	063	LEVER
020	DISPENSER, HOT WATER	064	SPRING
021	PAN ASSEMBLY, DRIP	065	STOPPER
022	CUP PLATE	066	VALVE
023	ASSEMBLY, COVER	067	SPRING
024	HOPPER, COFFEE BEAN	068	FLOWMETER
025	COVER, DUST	069	HEATER, STEAMER (1000 W)
026	COVER	070	TUBING
027	COVER, FINGER STOP	071	TUBING
028	GRINDER ASSEMBLY	072	TUBING, WATER
029	MICROSWITCH	073	SEAL, O-RING
030	MICROSWITCH	074	FUSE, THERMAL
031	HEATER ASSEMBLY	075	CONNECTOR, SOLENOID TO TUBING
032	TRANSMISSION ASSEMBLY	076	SUPPORT, COUPLING
033	SUPPORT, MICROSWITCH	077	GENERATOR, STEAM
034	SPRING	078	L-CONNECTOR
035	HOSE, DRAIN	079	T-CONNECTOR
036	CONTROL BOARD, MOTOR	080	CLIP
037	MOTOR	081	CONNECTION, SOLENOID VALVE
038	VALVE, ORIFICE	082	O-RING
039	PIN	083	RUBBER SEAL, COUPLING
040	SPRING	084	COUPLING, CARAFE
041	SEAL, O-RING	085	VALVE, SOLENOID
042	SCREEN, COFFEE HEATER	086	TUBING
043	SENSOR, HALL	087	SUPPORT, SOLENOID VALVE
044	SCREW	088	CONTROL BOARD, HALL SENSOR

Coffee System Part List (Continued)

CALLOUT	PART DESCRIPTION	CALLOUT	PART DESCRIPTION
089	MICROSWITCH	104	BRACKET, TCO
090	TUBING	105	BRACKET
091	SOLENOID VALVE	106	TUBING
092	FORM, TUBING	107	TUBING
093	THERMOSTAT	108	TUBING
094	SENSOR, TEMPERATURE	109	TUBE GUIDE, FLOW METER
095	REGULATOR, PUMP	110	O-RING
096	CLAMP, SPRING	111	PROTECTOR, PUMP
097	VALVE, PUMP	112	SUPPORT, PUMP
098	PUMP	113	SUPPORT
099	FLOW METER	114	TUBING
100	TUBING	115	TUBING
101	EXTENSION, BUSHING	116	CONNECTOR, TUBING
102	BUSHING	117	TUBING
103	BRACKET		

Before Disassembling the Coffee System

⚠ WARNING

Electrical Shock Hazard

Disconnect power before servicing.

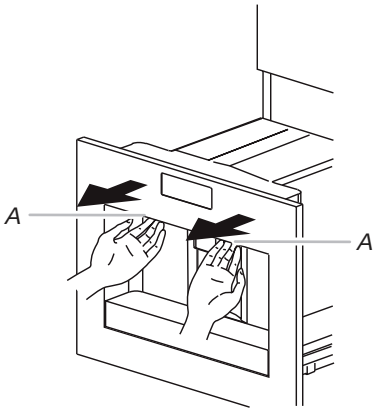
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

Preparation

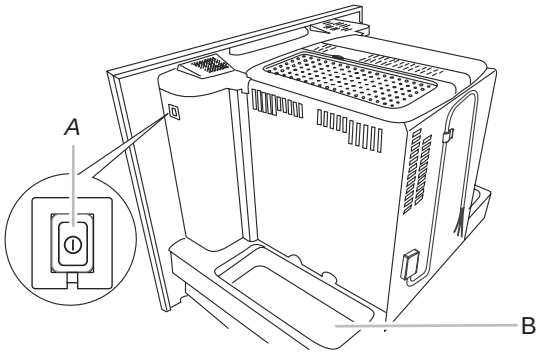
Perform the following steps to prepare coffee system for disassembly.

1. Slide the coffee system forward using the handles as shown in following illustration.



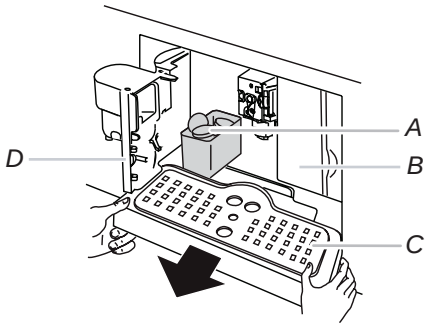
A. Handles

2. Press main On/Off switch (A) on the right hand side of the coffee system to turn off the unit.



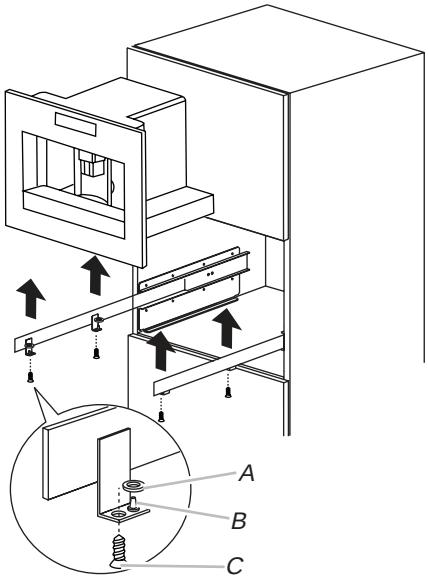
A. Main On/Off Switch
B. Storage Tray

3. Unplug coffee system or disconnect power.
4. Remove power cord from power cord clip in cabinet.
5. Remove all items from right and left storage trays, e.g., bags of coffee beans, containers of ground coffee, sugar, creamer, etc.
6. If installed, remove hot water spout or milk container.
7. Remove water tank (B).
8. Open service door (D) and remove drip tray (C) with coffee grounds container (A).



A. Coffee ground container
B. Water Tank
C. Drip Tray
D. Service Door

9. Remove the four 4.2 x 9.5 mm screws securing the coffee machine.



A. Leveling spacers
B. Pins
C. Screws

10. Remove the coffee system from the runners and relocate to an appropriate work surface.

Removing the Top Panel and Fan Panel

⚠ WARNING

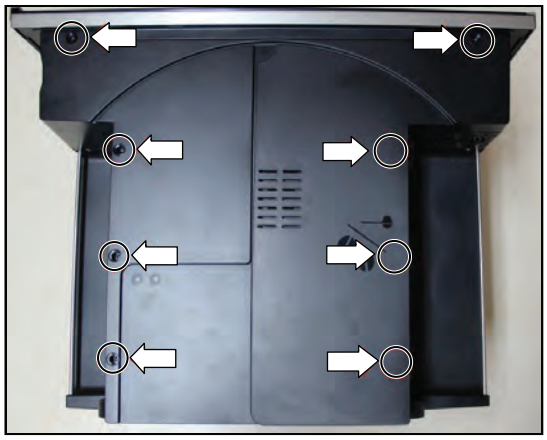
Electrical Shock Hazard

Disconnect power before servicing.

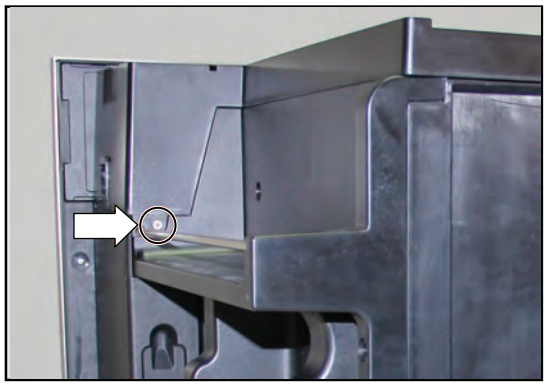
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

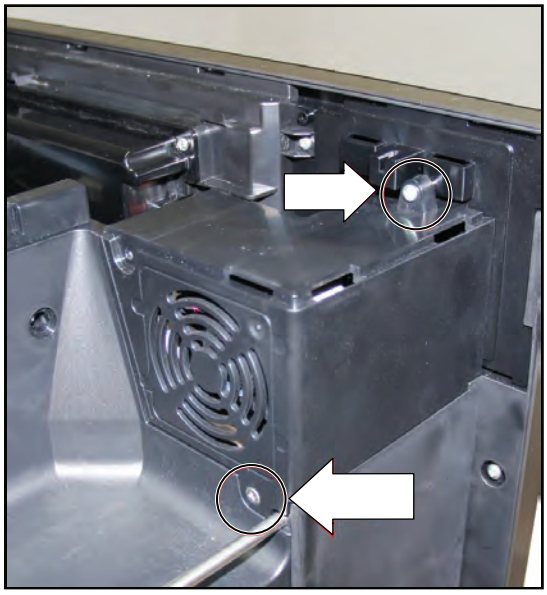
1. Complete the preparation steps 1-10 from **"Before Disassembling the Coffee System"**, prior to performing the following steps.
2. Remove the screws from the upper part of the top panel.



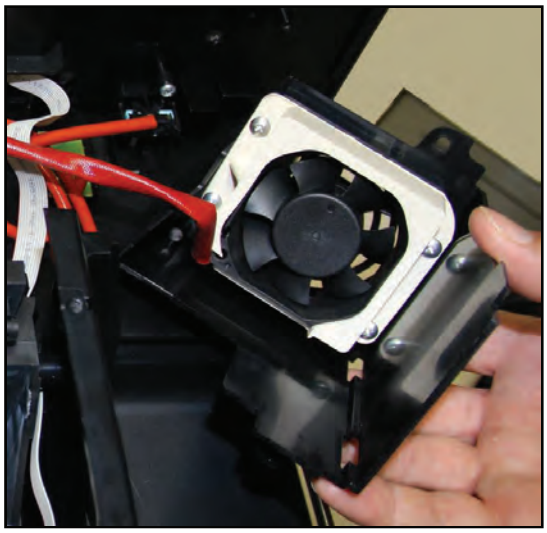
3. Remove the screw located on the right side of the coffee system as shown below.



4. Remove the two screws securing the fan assembly to the front panel. Pull out fan assembly and see the step 5.



5. Disconnect the wire harness.



Removing the Back Panel and Side Panel

⚠ WARNING

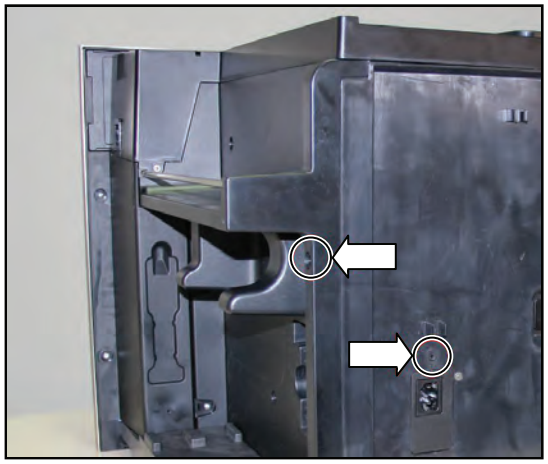
Electrical Shock Hazard

Disconnect power before servicing.

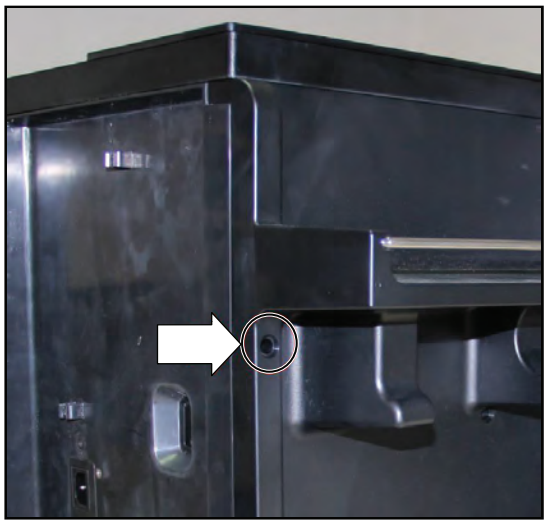
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

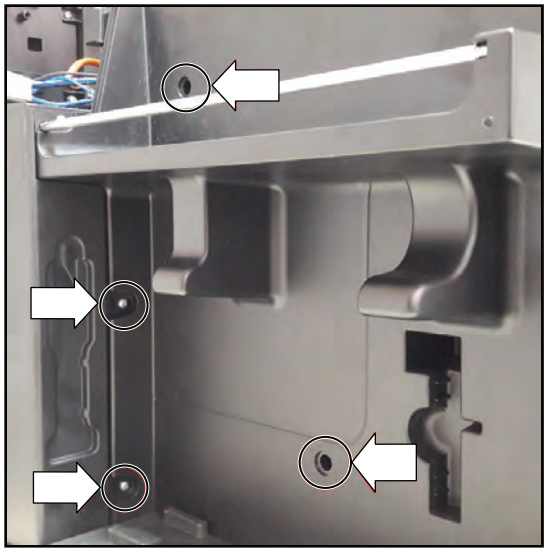
1. Complete the preparation steps 1-10 from **"Before Disassembling the Coffee System"**, prior to performing the following steps.
2. Remove the screw located above the power cord connection and on the right edge of the back panel.

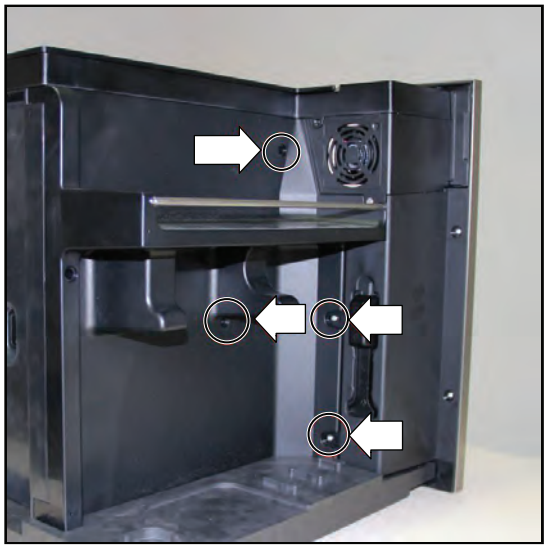


3. Remove the screws located on the right edge of the back panel. Lift up the back panel.



4. Remove the four screws on each side of coffee system which are securing the left and right side panels.





Removing the Main Power Board

⚠ WARNING

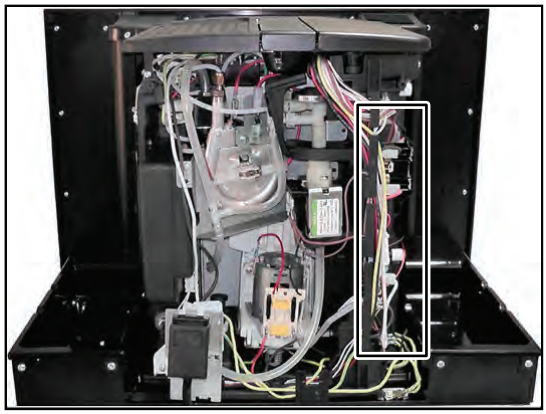
Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. Disconnect all harnesses. If necessary, disconnect label terminals and connectors for ease of re-installation.



3. To remove main board, remove the five screws securing PCB to chassis.

Removing the Grinder Assembly

⚠ WARNING

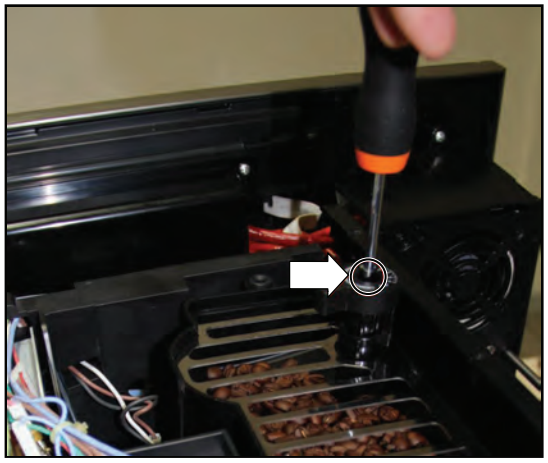
Electrical Shock Hazard

Disconnect power before servicing.

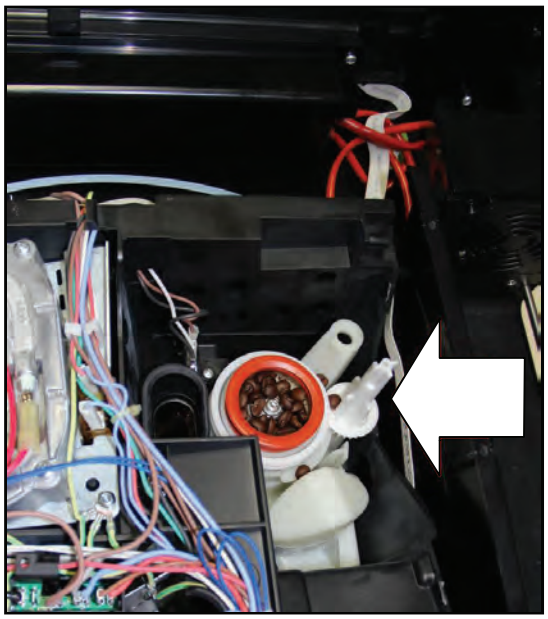
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

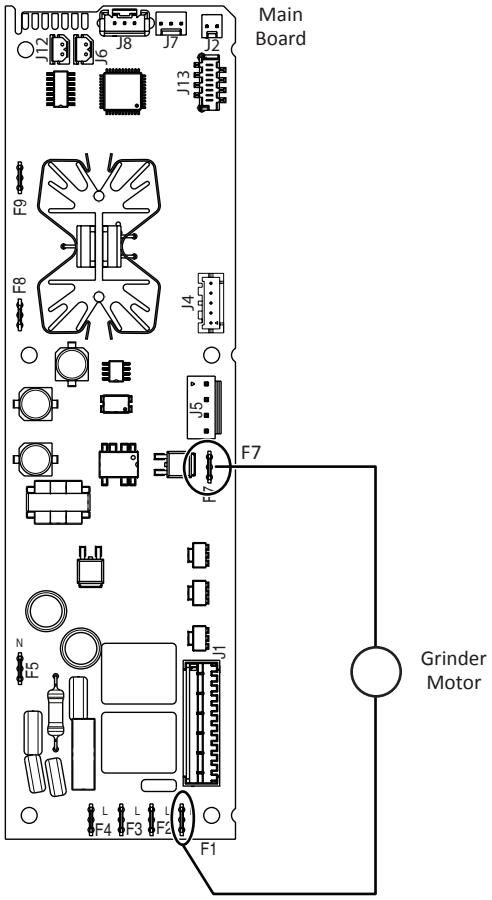
1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. With a small screwdriver, remove the rubber cap from the grinder knob. Remove the screw to disconnect grinder adjustment knob.



3. Lift up the grinder funnel to get access to the grinder assembly.



4. Disconnect the motor terminals from the control board terminals "F1" and "F7."



5. Lift up the grinder assembly and remove from the coffee system.

Grinder Setup

⚠ WARNING

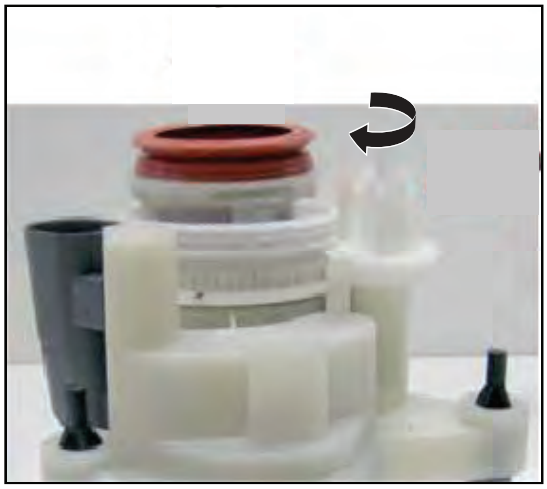
Electrical Shock Hazard

Disconnect power before servicing.

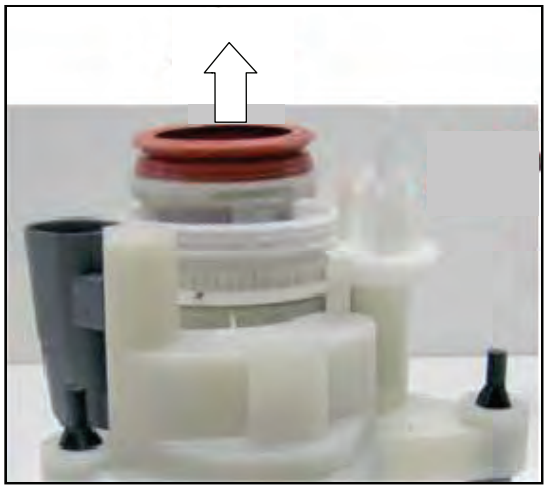
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

1. Turn the white shaft clockwise till it tighten ups.

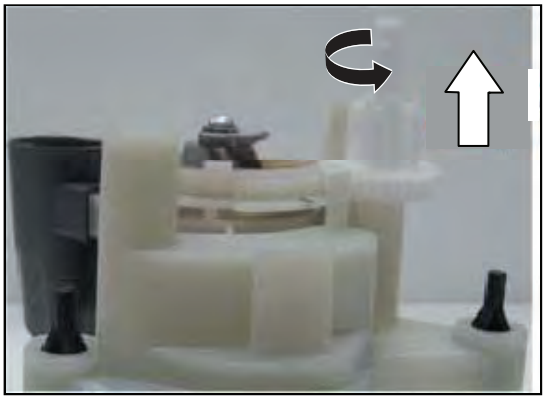


2. Remove the upper part of the grinder by pulling it upwards.

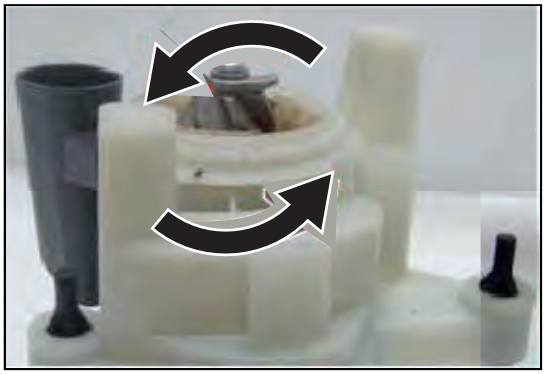


3. Verify the position of the white gasket with below figure.

4. Turn the white shaft counterclockwise till it loosen. Pull up on shaft to remove it.



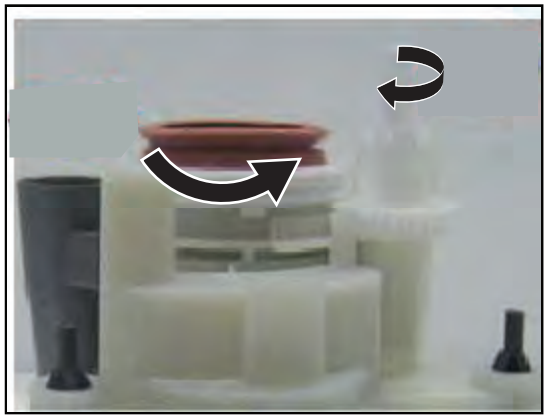
5. Grind settings are ready to change. To increase the coarseness of the grind (thicker), turn the gear counter clockwise*.
   To decrease the coarseness of the grind (finer), turn the gear clockwise*.
   ***NOTE:** Before changing the setting, check and mark the initial position of the metal ball you see through the holes on the white ring. Change the setting carefully by turning the white ring a maximum of one or two steps (one or two holes) either way as required.



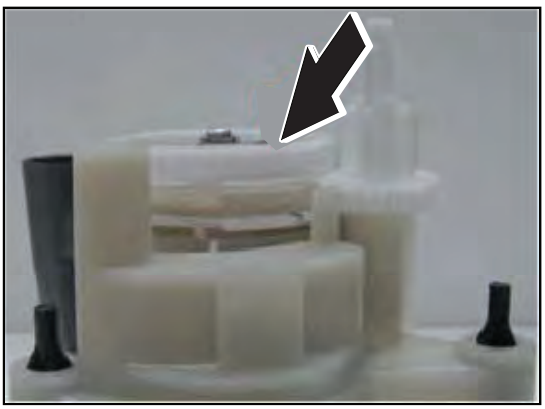
Grinder Setup (Continued)

6. Insert the white shaft, making sure its larger notch is aligned with the one on the grinder.

7. Turn the shaft clockwise till it stops to insert the upper gear. Then, enter the mill by turning back counterclockwise until it stops.



8. Insert the locking ring in the right position.



Removing the Flow Meter

⚠ WARNING

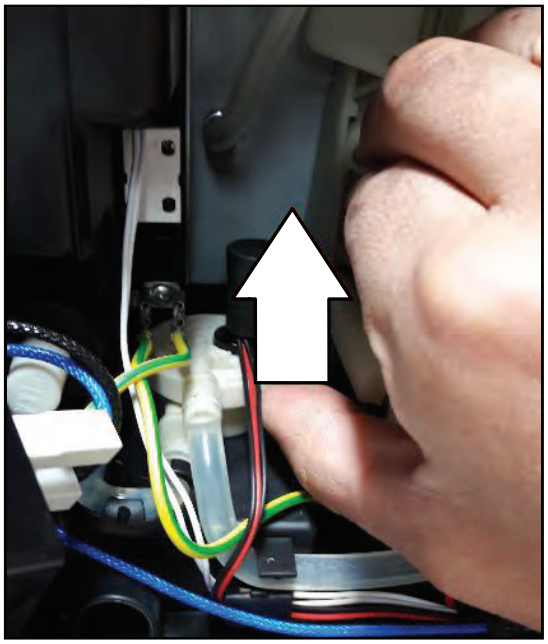
Electrical Shock Hazard

Disconnect power before servicing.

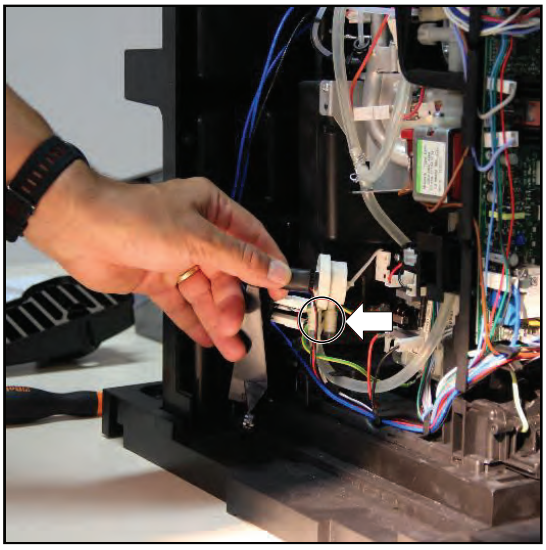
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

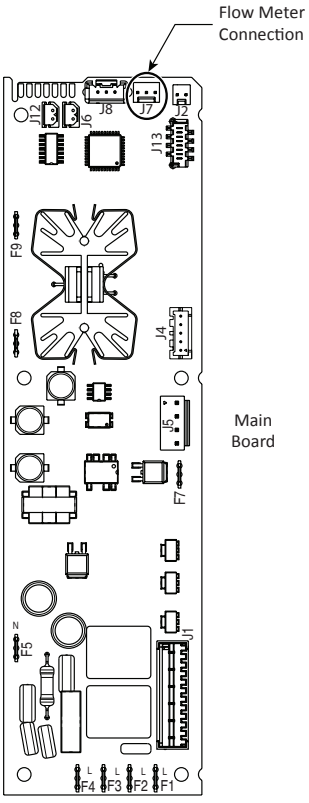
1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. Lift up the flow meter with a finger in order to unclip it from the bottom support.



3. Remove the two water tubes from the flow meter.



4. Disconnect the flow meter cable from the control board terminal "J7."



Removing the Water Pump

⚠ WARNING

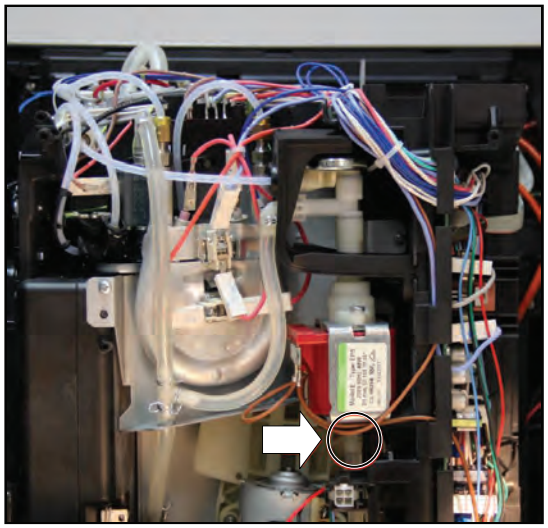
Electrical Shock Hazard

Disconnect power before servicing.

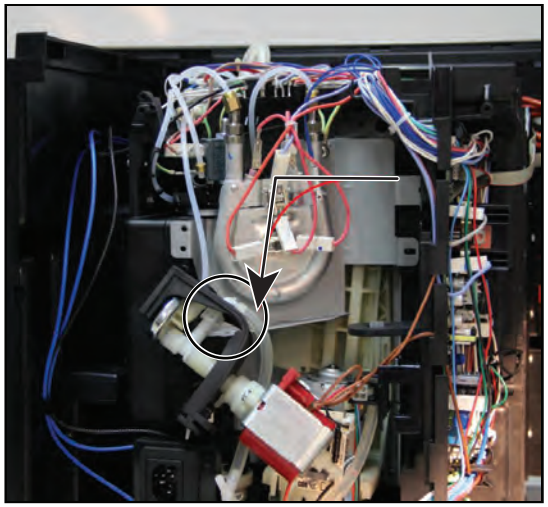
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

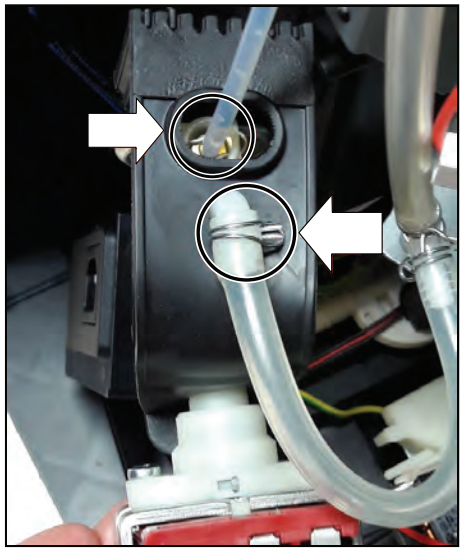
1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. Disconnect the silicone hose from the lower pipe (inlet) of the pump.



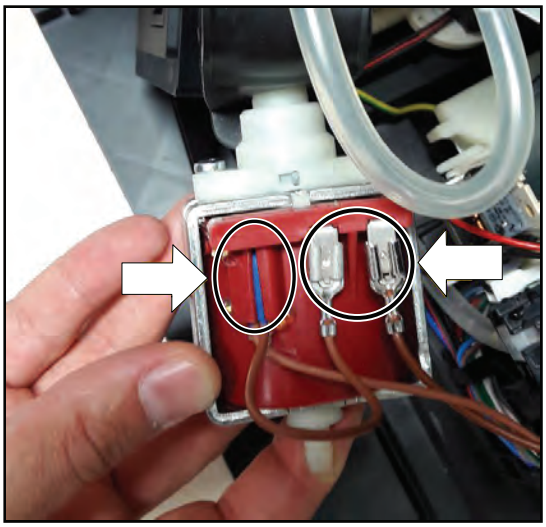
3. Remove the pump and its rubber holder from the chassis of the appliance.



4. Disconnect the two hoses (fixed by clips) from the upper dumper of the pump.



5. Remove the thermal protection and the two power wires from the pump.



Removing the Steam Heater and 3-Way Valve

⚠ WARNING

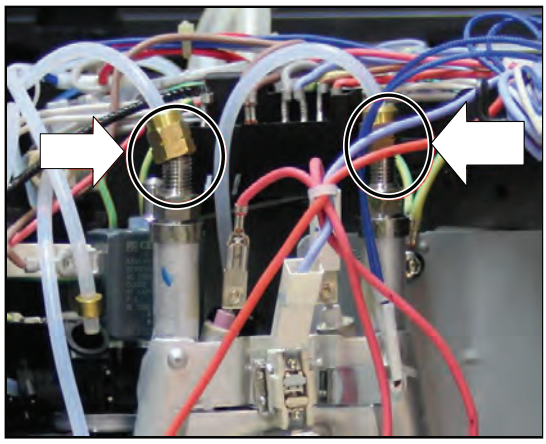
Electrical Shock Hazard

Disconnect power before servicing.

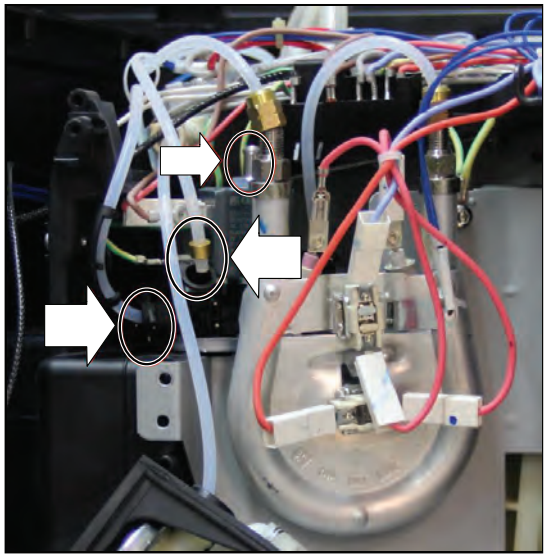
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

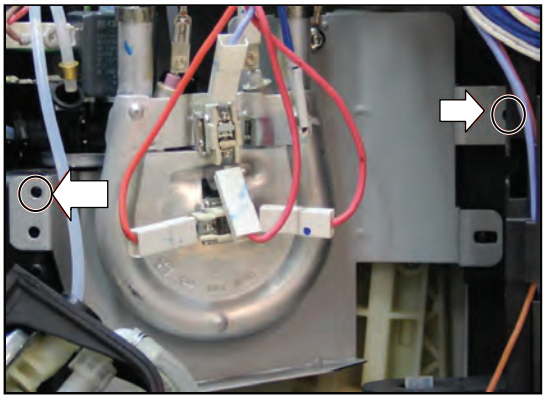
1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. With the help of 10 mm wrench remove the two hoses connected to the inlet and outlet of the steamer.



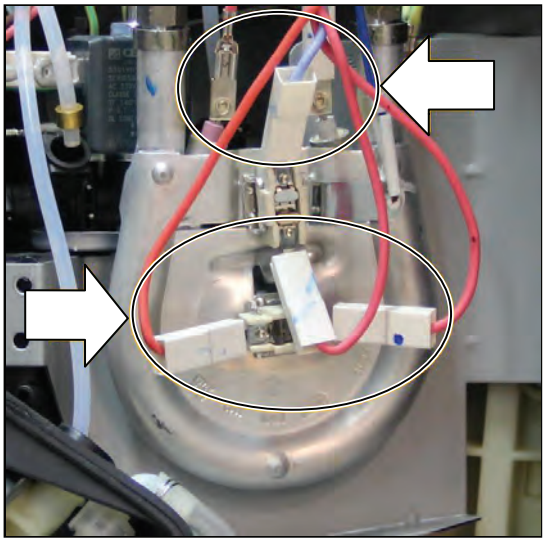
3. Remove the three hoses by removing the fixing-clips from the 3-way solenoid valve located on the back of the steamer.



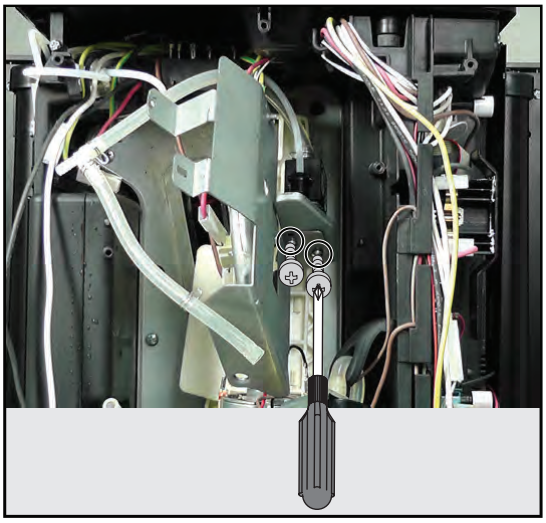
4. Remove the two screws which are securing the steamer bracket.



5. Remove the cable connections from the steamer. In this way, the steamer can be easily removed from the appliance.

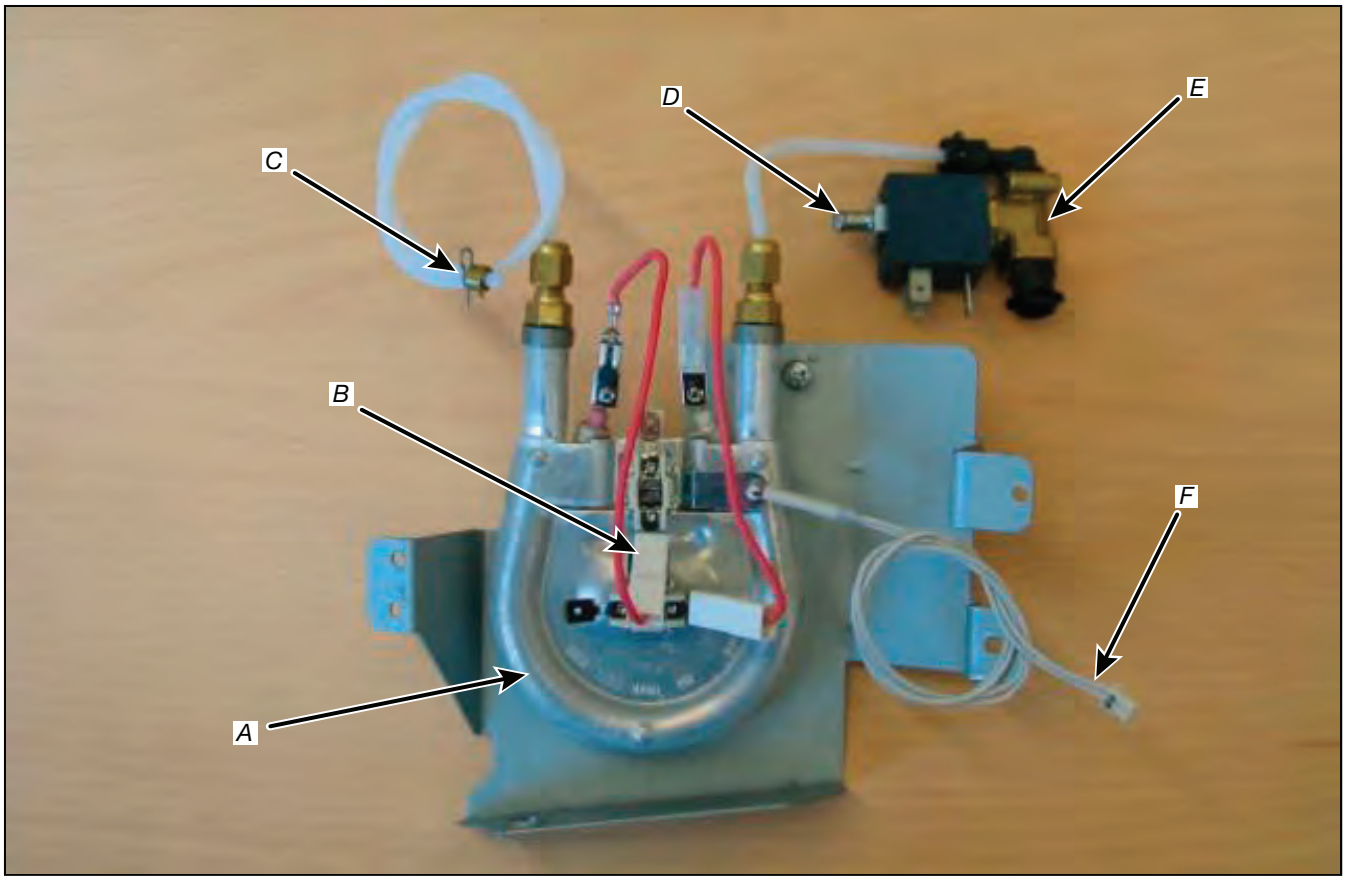


6. Unscrew the two (2) screws securing the 3-Way solenoid valve to the bracket.



Removing the Steam Heater and 3-Way Valve (Continued)

Steam Heater and 3-Way Valve Assembly



A. Steam Heater Element
B. Power Connection
C. Steam Outlet
D. Water Inlet
E. 3-Way Valve
F. NTC Connection

Removing the Transmission Assembly

⚠ WARNING

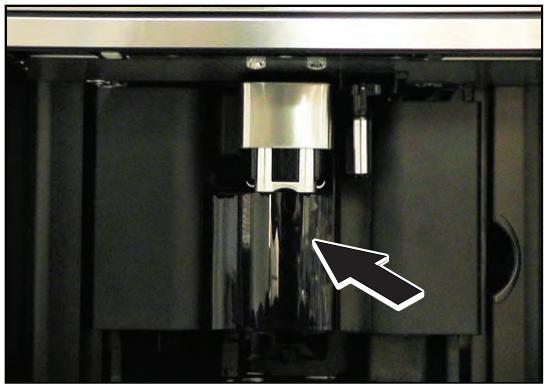
Electrical Shock Hazard

Disconnect power before servicing.

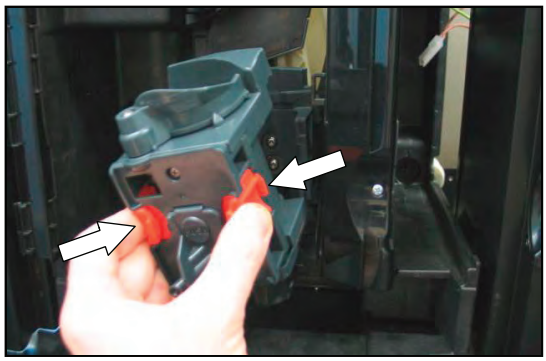
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

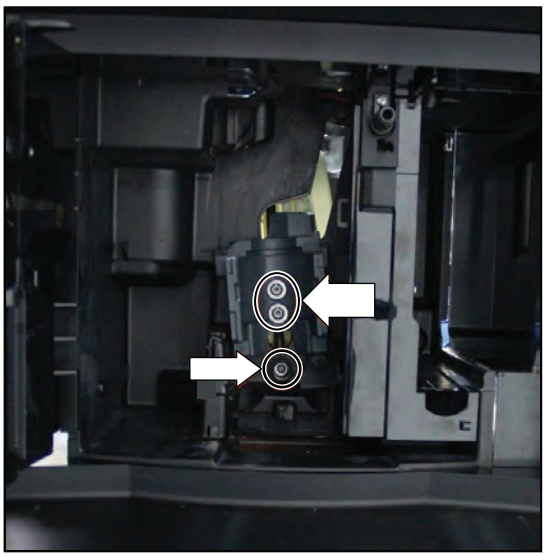
1. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
2. Open service door to access Infuser assembly. Remove drip tray from coffee system.



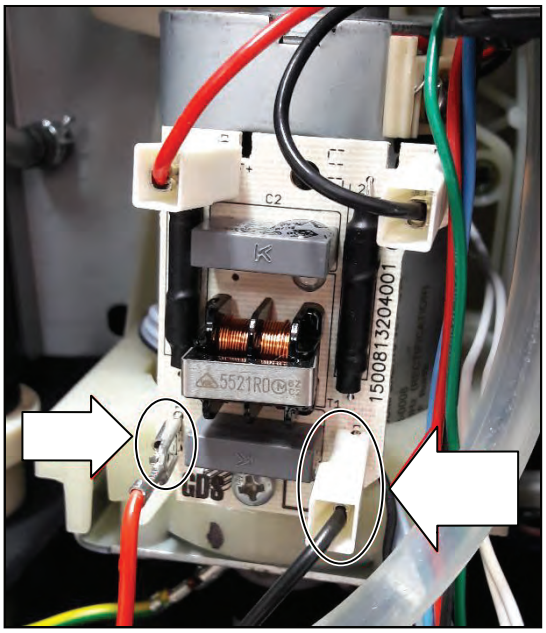
3. Press in on the red clips on each side of the Infuser assembly and then pull the infuser out of the coffee system.



4. Remove the two screws securing the infuser sled. Remove the screw holding the transmission kit fulcrum.



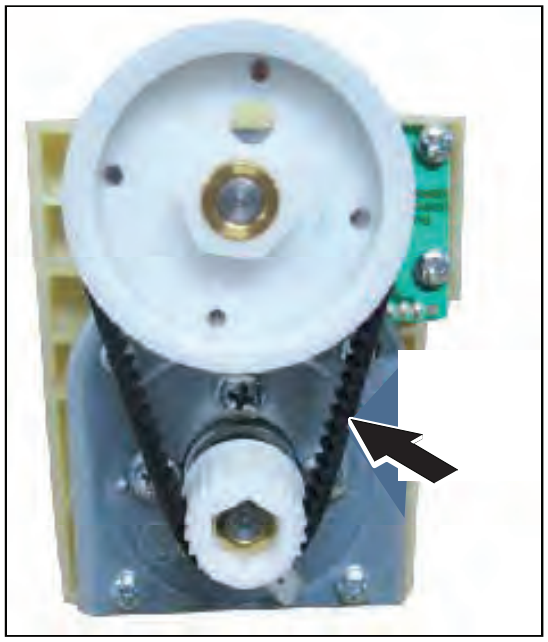
5. From the back of the coffee system, remove the lower red and black cables which are feeding DC power supply to the transmission kit motor filter board.



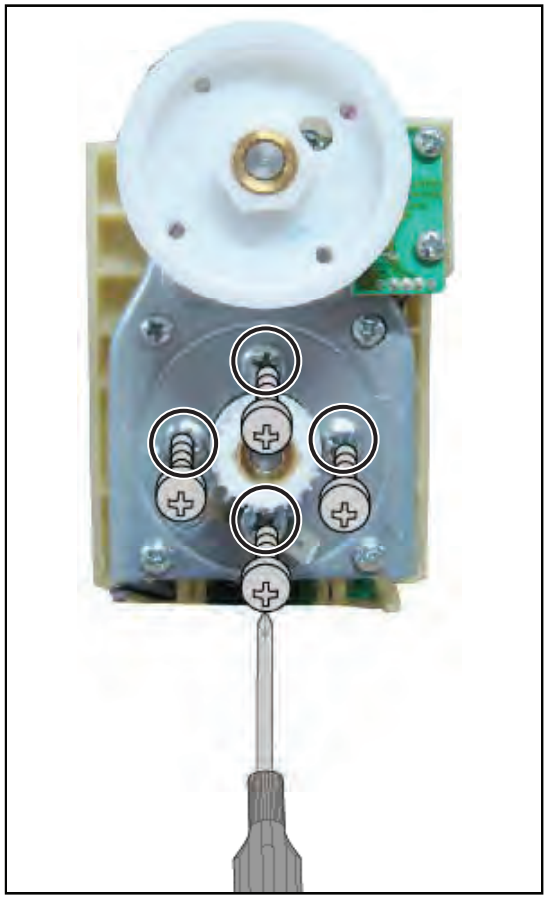
6. Remove the diverter/transmission assembly from coffee system.
   IMPORTANT: While removing the transmission kit, be careful not to damage the lower micro-switch cable, hall sensor cable, and ground cables.

Removing the Transmission Assembly (Continued)

7. Remove the drive belt from the transmission & motor pulleys.

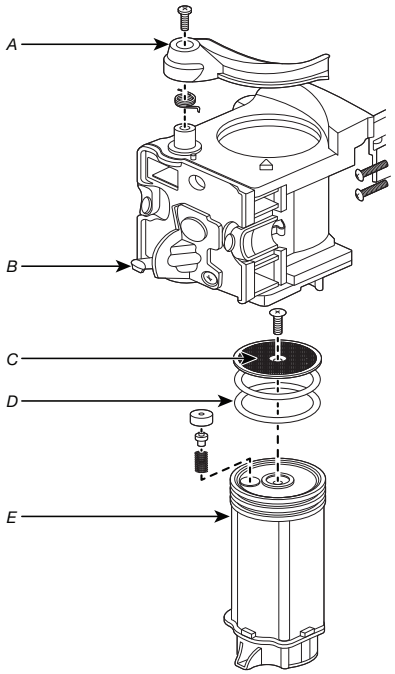


8. Unscrew four screws from the motor bracket. Remove Diverter Motor from transmission assembly.



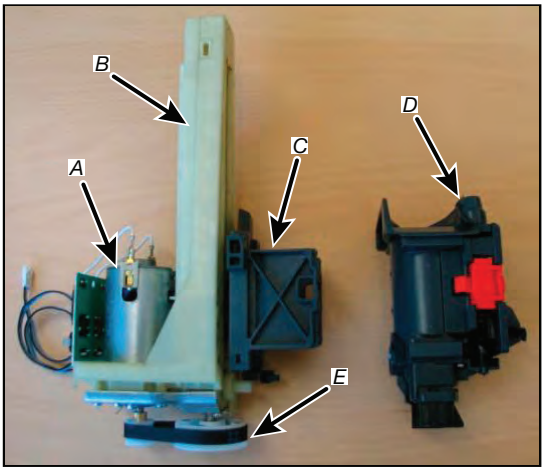
Infuser Assembly

NOTE: The infuser can be easily removed from the sled and can cleaned under running water.



A. Lever for pod releasing
B. Coffee outlet
C. Coffee filter
D. O-ring
E. Piston

Diverter/Transmission Assembly



A. Diverter Motor
B. Diverter Guide
C. Infuser Holder
D. Infuser
E. Drive Pulley

Removing the Coffee Heater and Mechanical Valve

⚠ WARNING

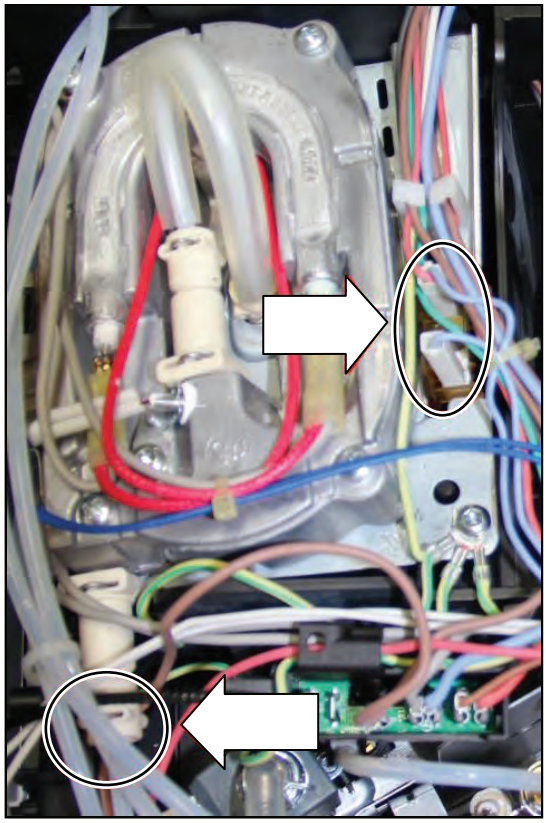
Electrical Shock Hazard

Disconnect power before servicing.

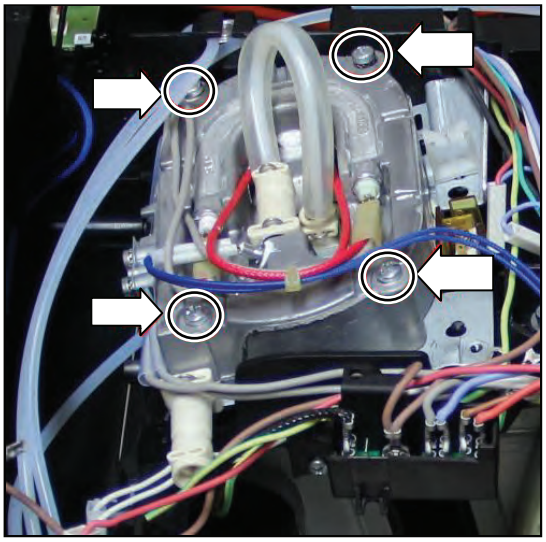
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

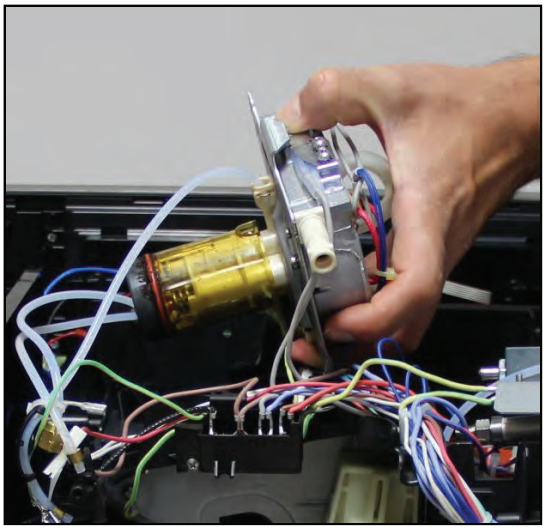
1. Complete the steps 1-5 from **"Removing the Top Panel and Fan Panel"**.
2. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
3. Remove the wires connected to the upper micro-switch. Unclip the hose coming from the pump/dumper.



4. Remove four bolts (one at each corner). Take care as nuts are on the underside of the assembly and may fall inside the unit.



5. Lift up and remove the generator and mechanical valve assembly.



Removing the LED and Fan Board

⚠ WARNING

Electrical Shock Hazard

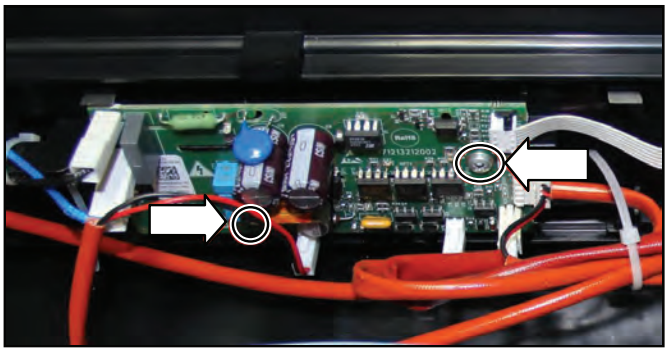
Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

1. Complete the steps 1-5 from **"Removing the Top Panel and Fan Panel"**.
2. Complete the steps 1-4 from **"Removing the Back Panel and Side Panel"**.
3. Remove the two screws securing the plastic cover for the LED and Fan board. Remove the plastic cover.

4. Disconnect the harnesses from the LED and Fan board.
5. Remove the two screws from the PCB in order to disconnect the board from coffee system.



Removing the Front Panel and Front Door

⚠ WARNING

Electrical Shock Hazard

Disconnect power before servicing.

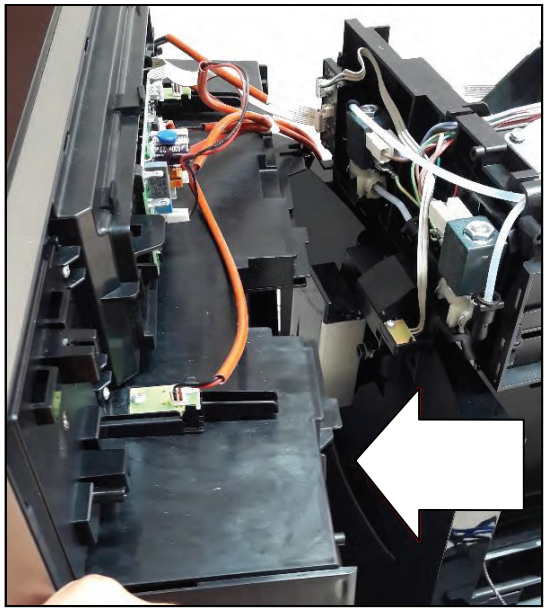
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

1. Complete the steps 1-5 from **"Removing the Top Panel and Fan Panel"**.
2. Complete the steps 1-4 from **"Removing the Back Panel and Side Panel"**.
3. Complete the steps 1-5 from **"Removing the LED and Fan Board"**.

Front Panel

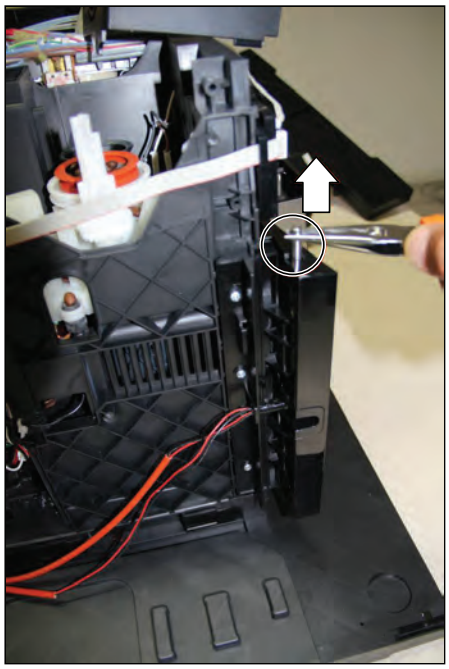
4. Remove the front panel.
   IMPORTANT: The display assembly is not a serviceable part. To replace the display, the entire front panel assembly must be replaced.
   NOTE: The front panel can be easily removed once the side panels and fan have been removed.



5. Disconnect the cables from the LED and Fan Board before removing the front panel.

Front Door Removal

6. With the help of a clamp, remove the metallic rod which is holding the front door.



Removing the 2-Way Solenoid Valves

⚠ WARNING

Electrical Shock Hazard

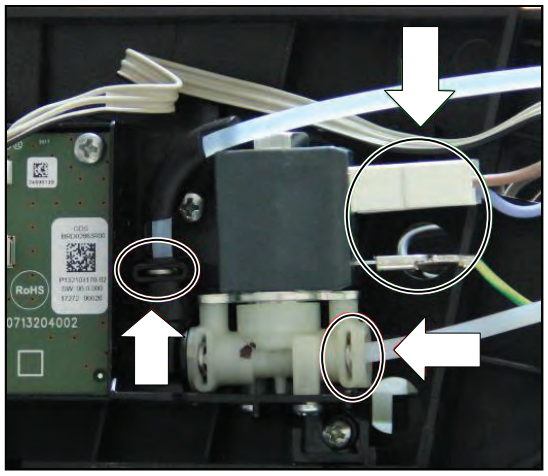
Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

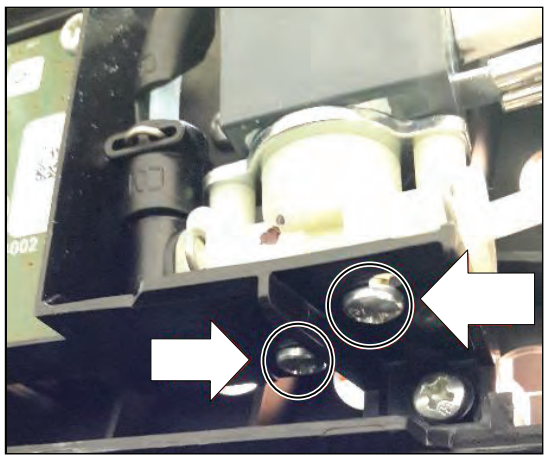
2-Way Solenoid Valves (Hot Water)

1. Complete the steps 1-5 from **"Removing the Top Panel and Fan Panel"**.
2. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
3. Remove the fixing clips of the two hoses of solenoid valve. Disconnect hoses and power supply cables from the 2-way solenoid valves (hot water).



2-Way Solenoid Valve (Hot Water)

4. Remove the two screws which are securing the body of 2-way solenoid valve (hot water) to the support.

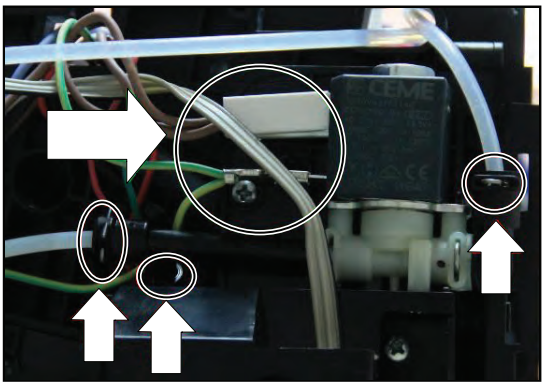


2-Way Solenoid Valve (Hot Water)

5. Remove 2-way solenoid valves (hot water).

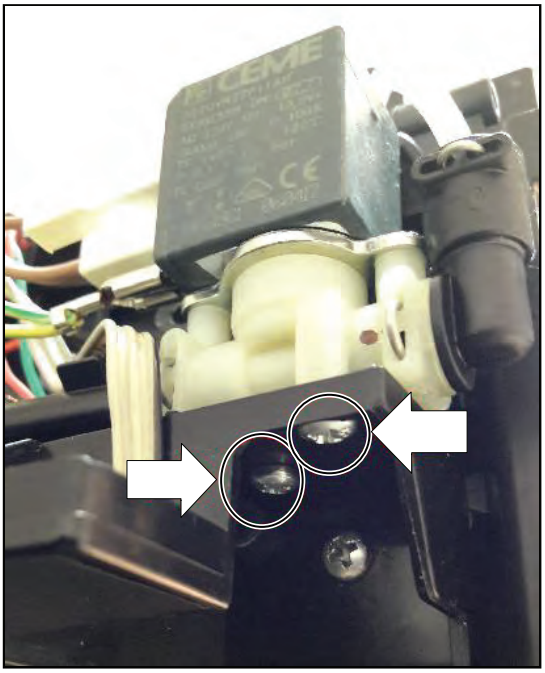
2-Way Solenoid Valves (Steam)

1. Complete the steps 1-5 from **"Removing the Top Panel and Fan Panel"**.
2. Complete the steps 1-3 from **"Removing the Back Panel and Side Panel"**, prior to performing the following steps.
3. Remove the fixing clips of the two hoses of solenoid valve. Disconnect hoses and power supply cables from the 2-way solenoid valves (steam).



2-Way Solenoid Valve (Steam)

4. Remove the two screws which are securing the body of 2-way solenoid valve (steam) to the support.



2-Way Solenoid Valve (Steam)

5. Remove 2-way solenoid valves (steam).

Removing IFD (Instant Froth Dispenser)

⚠ WARNING

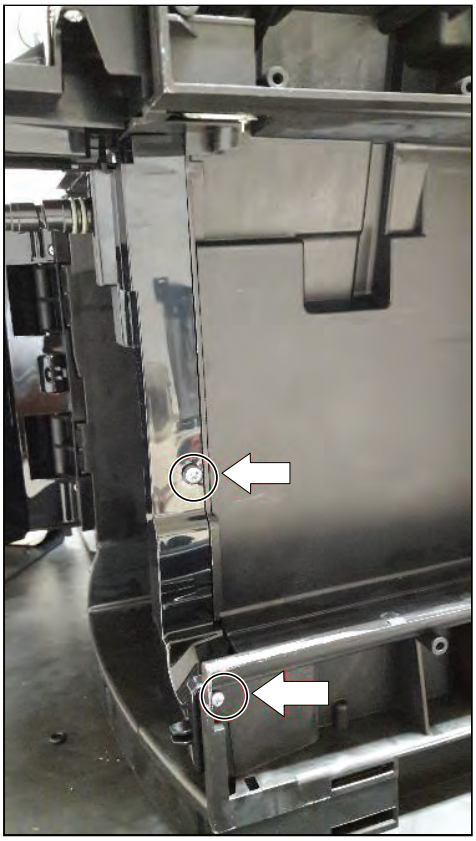
Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

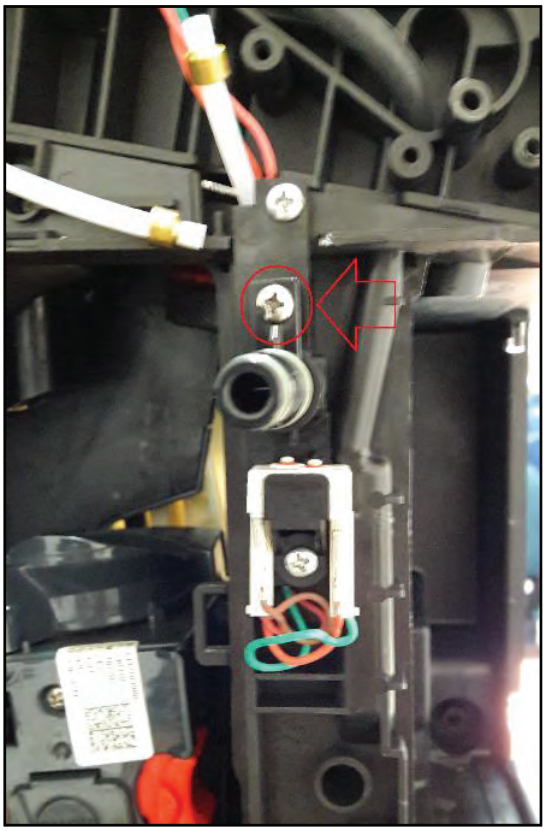
Failure to do so can result in death or electrical shock.

1. Remove the two screws of the IFD plastic cover.



2. Unlock the IFD plastic cover from its clips and remove it from the chassis of the appliance.

3. Remove the screw which is securing the IFD spout.

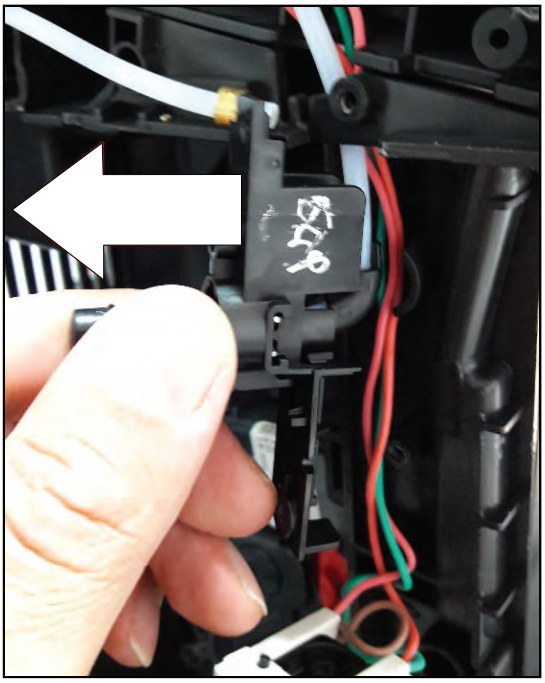


Removing IFD (Instant Froth Dispenser)

4. Pull the spout from the IFD assembly.

5. Remove the two screws which are securing the IFD assembly. Remove the IFD assembly.
NOTE: The screw is also holding the micro-switch for the milk jug and steam spout detection.

NOTE: Remove the upper 2-way solenoid valve before performing this operation.



PRODUCT SPECIFICATIONS &WARRANTY INFORMATION SOURCES

IN THE UNITED STATES:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL:

1-800-JENNAIR
(1-800-536-6247)

Website:
www.jennair.com

FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:

THE TECHNICAL ASSISTANCE LINE: 1-800-832-7174

HAVE YOUR STORE NUMBER READY TO IDENTIFY YOU AS AN AUTHORIZED IN-HOME SERVICE PROFESSIONAL

FOR LITERATURE ORDERS (CUSTOMER EXPERIENCE CENTER):

PHONE: 1-800-851-4605

FOR TECHNICAL INFORMATION AND SERVICE POINTERS:

www.servicematters.com

IN CANADA:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL

1-800-JENNAIR
(1-800-536-6247)

Website:
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