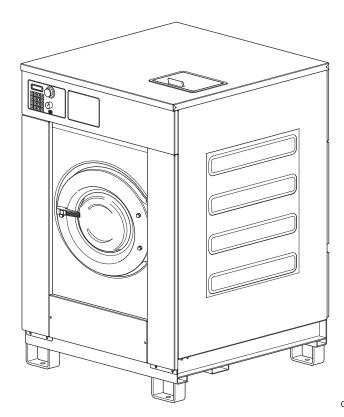
Troubleshooting

Washer-Extractor

Cabinet Freestanding HX, NX, SX and UX Models Refer to Page 8 for Model Numbers



CFD8C



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Section 1 Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING," and "DANGER") followed by specific

instructions. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

DANGER



Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING



Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION



Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

IMPORTANT: Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

General Safety Precautions

In the interest of safety, some general precautions relating to the operation of this machine follow.



WARNING

- Failure to install, maintain, and/or operate this product according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.
- Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death.

W006R1



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer-extractor before servicing.
- Never start the washer-extractor with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer-extractor is properly grounded.

W460



WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you, or the inexperienced person making such repairs, to the risk of serious injury, electrical shock, or death.

W007



WARNING

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Important Safety Instructions



WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

- 1. Read all instructions before using the washerextractor
- 2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual (supplied with your washer-extractor) for the proper grounding of the washer-extractor.
- 3. Do not wash textiles that have been previously cleaned in, washed in, soaked in or spotted with gasoline, dry-cleaning solvents or other flammable or explosive substances. They give off vapors that could ignite or explode.
- 4. Do not add gasoline, dry-cleaning solvents or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
- 5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washer-extractor, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable. Do not smoke or use an open flame during this time.
- Do not allow children to play on or in a washerextractor. Close supervision of children is necessary when the washer-extractor is used near children.
- 7. Before the washer-extractor is removed from service or discarded, remove the door to the washing compartment.
- 8. Do not reach into the washer-extractor if the wash basket is moving.
- 9. Do not install or store the washer-extractor where it will be exposed to water and/or weather.
- 10. Do not tamper with the washer-extractor's controls.

- 11. Do not repair or replace any part of the washerextractor or attempt any servicing unless specifically recommended in the usermaintenance instructions or in published userrepair instructions that the user understands and has the skills to carry out.
- 12. To reduce the risk of an electrical shock or fire, DO NOT use an extension cord or an adapter to connect the washer-extractor to an electrical power source.
- 13. Use the washer-extractor only for its intended purpose, washing clothes.
- 14. ALWAYS disconnect the washer-extractor from its electrical supply before attempting any service.
- 15. Install the washer-extractor according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and, when required, be made by licensed personnel.
- 16. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops or cleaning cloths, must not be put into the washer-extractor. These flammable substances may cause the fabric to ignite.
- 17. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- 18. Keep the washer-extractor in good condition. Bumping or dropping the washer-extractor can damage its safety features. If this occurs, have the washer-extractor checked by a qualified service person.
- 19. Replace worn power cords and/or loose plugs.
- 20. Be sure that water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.

- 21. The loading door MUST BE CLOSED any time the washer-extractor is to fill, tumble or spin. DO NOT by-pass the loading door switch and permit the washer-extractor to operate with the loading door open.
- 22. Always read and follow the manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings and precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
- 23. Always follow the fabric care instructions supplied by the textile manufacturer.
- 24. Never operate the washer-extractor with any guards and/or panels removed.
- 25. DO NOT operate the washer-extractor with missing or broken parts.
- 26. DO NOT by-pass any safety devices.
- 27. Failure to install, maintain and/or operate this washer-extractor according to the manufacturer's instructions may result in conditions that can produce bodily injury and/or property damage.

NOTE: The WARNING and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining and operating the washer-extractor.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

Section 2 Introduction

Customer Service

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Model Identification

Information in this manual is applicable to these washer-extractor models.

	HX018PVQM7	NX18BVXA6	SX18PVQM6	UX18PVPA7
	HX018PVXM7	NX18BVXA7	SX181 VQM0 SX18PVQM7	UX18PVPU6
	HX18PVXM6	NX18BVXM6	SX18PVQU6	UX18PVQA6
	HX18PVQM6	NX18BVXM7	SX18PVXM6	UX18PVQA7
	HX18PVQM7	SX018BVPA7	SX18PVXM7	UX18PVQM6
	HX18PVQU6	SX018BVQA7	SX18PVXU6	UX18PVQM7
	HX18PVXM7	SX018BVXA7	UX018PVNA7	UX18PVQU6
40	HX18PVXU6	SX018BVXM7	UX018PVPA7	UX18PVXA6
18	NX018BVPA7	SX018PVPA7	UX018PVQA7	UX18PVXA7
	NX018BVQA7	SX018PVQM7	UX018PVQM7	UX18PVXM6
	NX018BVXA7	SX018PVXM7	UX018PVXA7	UX18PVXM7
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	NX18BVQA6	SX18BVXM7	UX18PVNU6	
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	SX025PVQM7	UX025PVQA7	UX25PVQA6	UX25PVXU6
	SX025PVXM7	UX025PVQM7	33233	0A231 VA00
	NX030BVPA7	NX30BVPA7	NX30BVXM6	SX030BVXM7
	NX030BVQA7	NX30BVQA6	NX30BVXM7	SX30BVPA7
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	SX33BVXA7	UX33PVPA7	UX33PVXA7	
	HX035PVQM7	SX035PVXM7	UX035PVOA7	UX35PVQA6
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	HX35PVXM7	SX35PVXM7	UX35PVNU6	UX35PVXA7
	HX35PVXU6	SX35PVXU6	UX35PVPA6	UX35PVXM6
	SX035PVNM7	UX035PVNA7	UX35PVPA7	
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40	SX40BVPA7	SX40BVXM7	UX40PVQA7	UX40PVXM7
40	SX40BVQA7	UX40PVNA7	UX40PVQM7	
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Introduction

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T5		HX75PVNU7	SX075PVNU7	SX75PVQU7	UX75PVPU7
T55		HX75PVPU7	SX075PVPU7	UX075PVNU7	UX75PVOU6
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		HX200PVNU7	SX200PVNU7	SX200PVQU7	UX200PVPU7
	200	HX200PVPU7	SX200PVPU7	UX200PVNU7	UX200PVQU7
HX200PVQU7		HX200PVQU7			

Section 3 Theory of Operation

Starting the Machine

The door lock will not allow a cycle to be started until the door has been closed.

Fill

The operator selects a cycle and starts the machine. Water enters the machine through water valves that are controlled by the microcomputer. As water fills the basket, a column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the basket fills with water. When the desired water level is reached, the water level switch triggers the microcomputer and the water valves turn off.

A vacuum breaker installed in the inlet plumbing or a shell overflow and air gap prevents the backflow of water.

Supply

The operator can either connect external liquid supplies to the machine or fill the supply dispenser with liquid or dry supplies. The supply dispenser's nozzles flush the compartments with water at the appropriate times throughout a cycle.

Wash

The basket includes ribs that lift the laundry from the wash water. The laundry then tumbles back into the bath.

A variable-speed motor drives the basket's shaft with a V-belt.

The bearing housing is mounted to the tub support's brackets. The tub support is mounted onto the frame with shock absorbers so it can move independently from the frame.

Drain

Standard models include a normally-open gravity-type drain system. When the drain valve opens, the perforated basket allows water to drain from it. A pump drain is available as an option on the smaller-capacity models.

In the event of a power failure, the drain valve will open automatically and the machine will drain.

Standard models include a single drain valve. On dual drain models, which are available as an option, the two drain valves open and close together.

Extract

A final high-speed extract step removes water from the load, which maximizes drying efficiency.

The door lock system will not allow the door to be opened until the cycle has finished.

Section 4 Troubleshooting



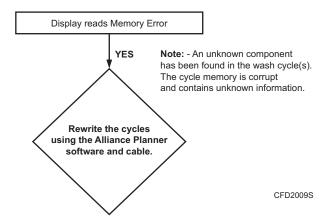
WARNING

To reduce the risk of electrical shock, fire, explosion, serious injury or death:

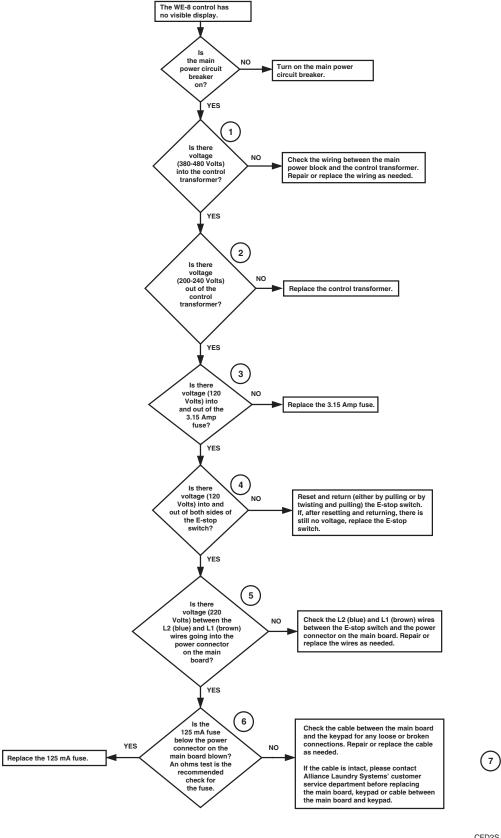
- Disconnect electrical power to the washer-extractor before servicing it.
- Close the gas shut-off valve to the washer-extractor (when applicable) before servicing it.
- Never start the washer-extractor with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer-extractor is properly grounded.

W461R1

1. Display Error: Display reads "Memory Error"



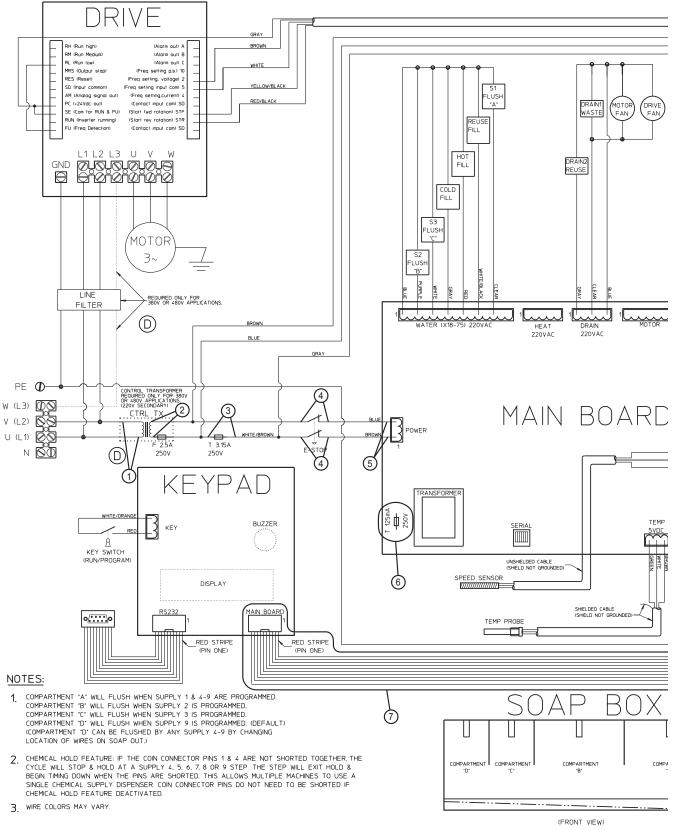
2. WE-8 Control Has No Visible Display (P and N-Voltage Models)



CFD2S

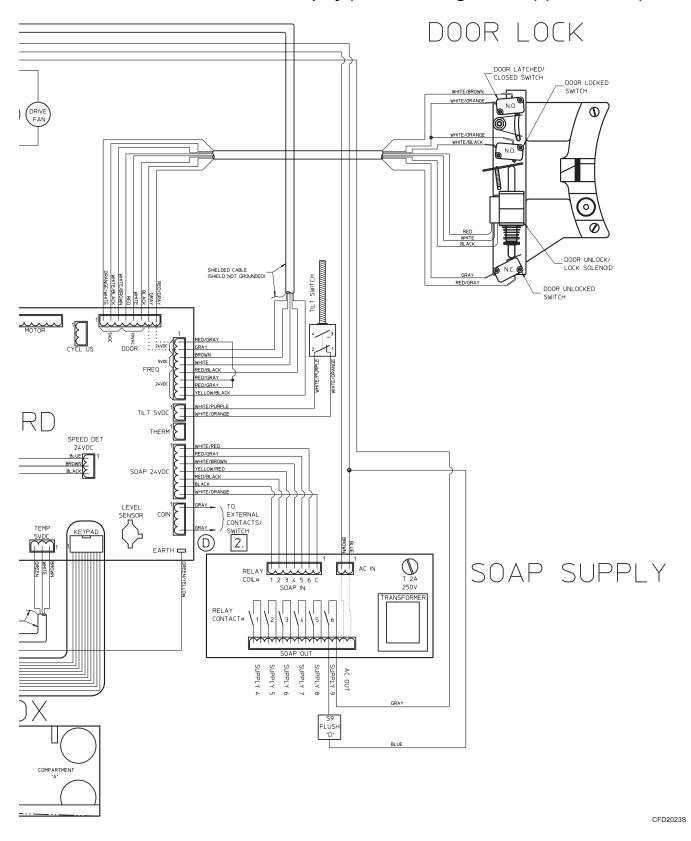
Please refer to the following 2 pages for wiring diagram information.

WE-8 Control Has No Visible Display (P and N-Voltage Models) (Sheet 1 of 2)

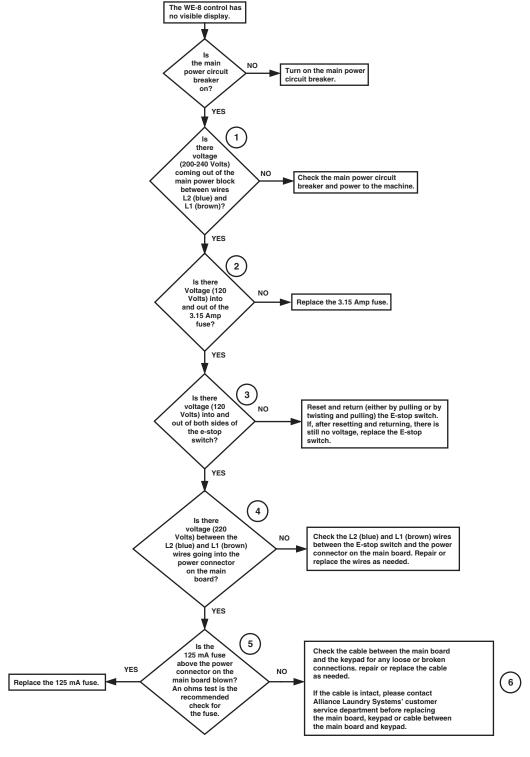


NOTE: Refer to the wiring diagram supplied with your machine.

WE-8 Control Has No Visible Display (P and N-Voltage Models) (Sheet 2 of 2)



3. WE-8 Control Has No Visible Display (Q and X-Voltage Models)



CFD4S

Troubleshooting

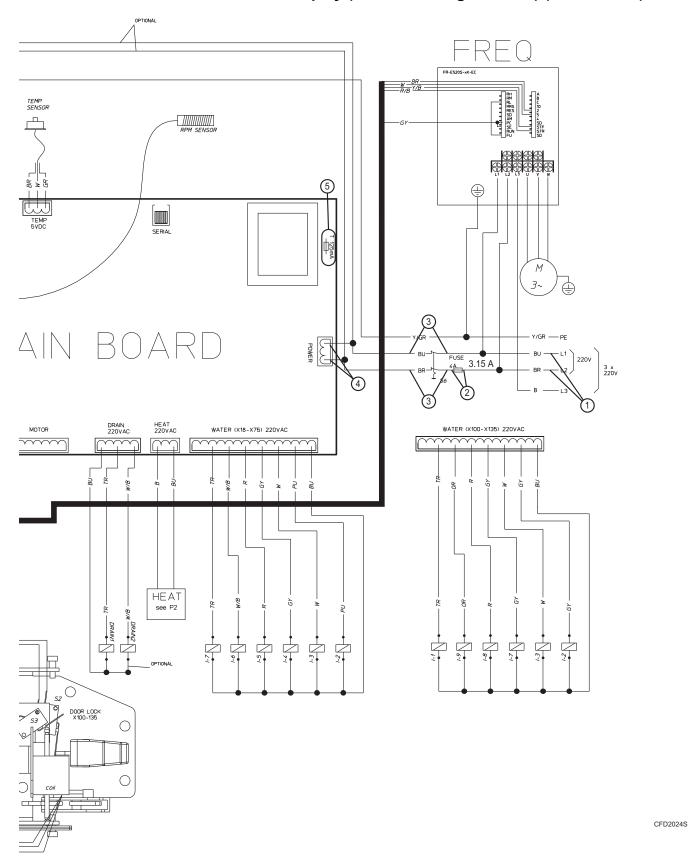
Please refer to the following 2 pages for wiring diagram information.

FUSE T2A 6 EARTH – W/OR – W/R – R/GY -– W/BR – Y/R – R/B Y/B - R/GY -— R/GY — R/B – BU – BR – GY MOTOR RS232 ō OR OR B X X X X/R W/OR DOOR LOCK X18-75 - W/OR W/B -R/GY -LEGEND Supply 'A' (X100-X135) Supply 'B' Supply 'C' Cold soft fill (X18-X75) Hot fill (X18-X75) Cold hard fill (X18-X75) Supply 'A' (X18-X75) Cold soft fill (X100-X135) Hot fill (X00-X135) Cold hard fill (X100-X135) BLUE WHITE BLACK GREY BW B GYR TR GRUP ROR PW/BY W/PR W/PR W/PR Y/B BR/P R/GY I-1 I-2 I-3 I-4 I-5 I-6 I-7 I-8 I-9 R5: R5: R5: R5: S1 S23 S4 S5: S5: S7 GREY
BROWN
TRANSPARENT
GREEN
PURPLE
RED
ORANGE
PINK
WHITE/GREY
WHITE/PINK
WHITE/PINK
WHITE/POLRPLE
TELLOW/BLACK
RED/BLACK
RED/BLACK
RED/GREY 0 Contactor 1 for electrical healing Contactor 2 for electrical healing Contactor 3 for electrical healing Contactor for steam healing Doorlock switch 1 Doorlock switch 2 Doorlock switch 3 Safely water level switch Switch steam or electric healing Emergency switch Program / run keyswitch 0

WE-8 Control Has No Visible Display (Q and X-Voltage Models) (Sheet 1 of 2)

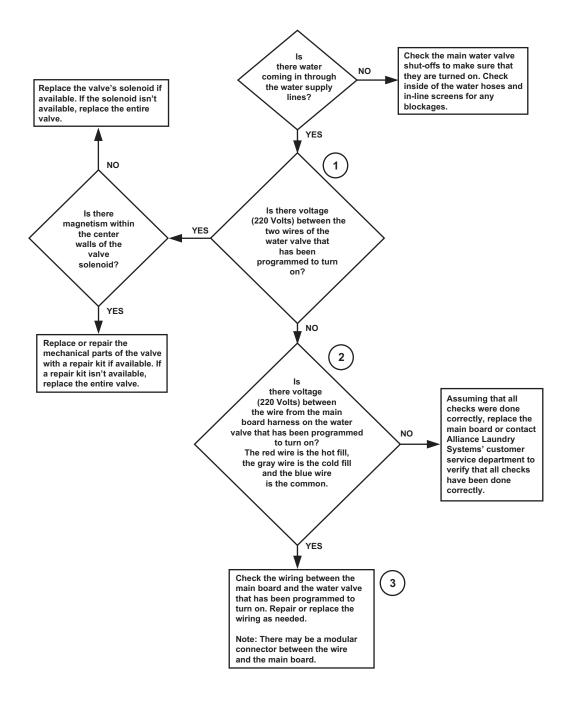
NOTE: Refer to the wiring diagram supplied with your machine.

WE-8 Control Has No Visible Display (Q and X-Voltage Models) (Sheet 2 of 2)



Troubleshooting

4. No Fill Analysis

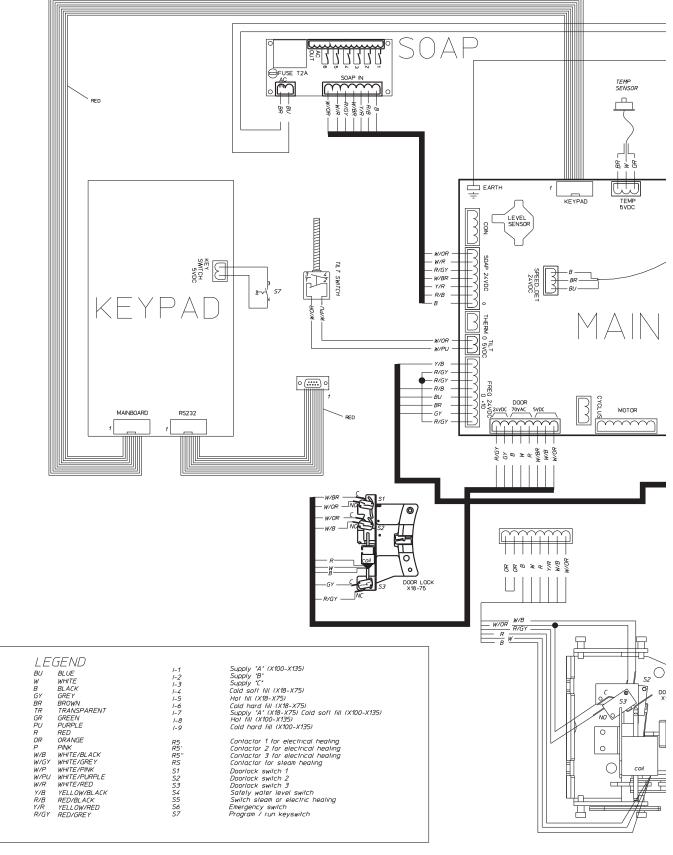


CFD2010S

Troubleshooting

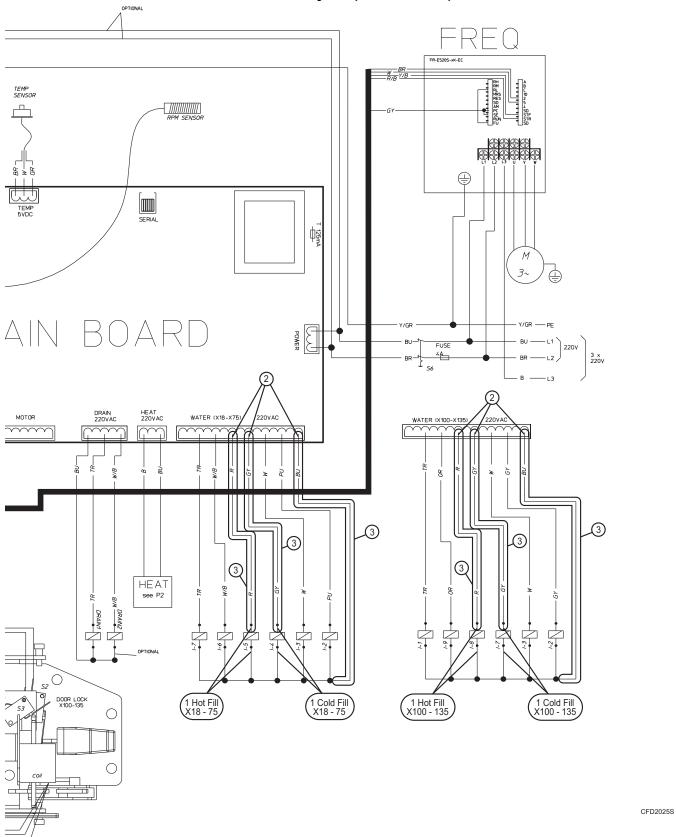
Please refer to the following 2 pages for wiring diagram information.

No Fill Analysis (Sheet 1 of 2)



NOTE: Refer to the wiring diagram supplied with your machine.

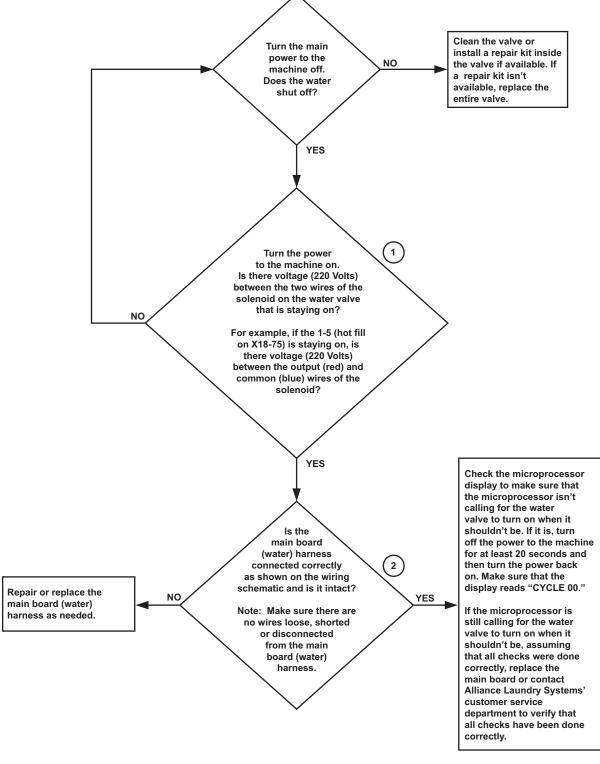
No Fill Analysis (Sheet 2 of 2)



Troubleshooting

5. Water Runs Continuously into the Washer-Extractor

NOTE: This information applies to the three main fill valves as well as the three supply valves. The first task in this process is to determine which valve is staying on. This may be done by individually shutting off the water supply to each valve. Find the location where the water is flushing into the machine and follow the hose back to the solenoid. Once the valve has been identified, proceed as follows:

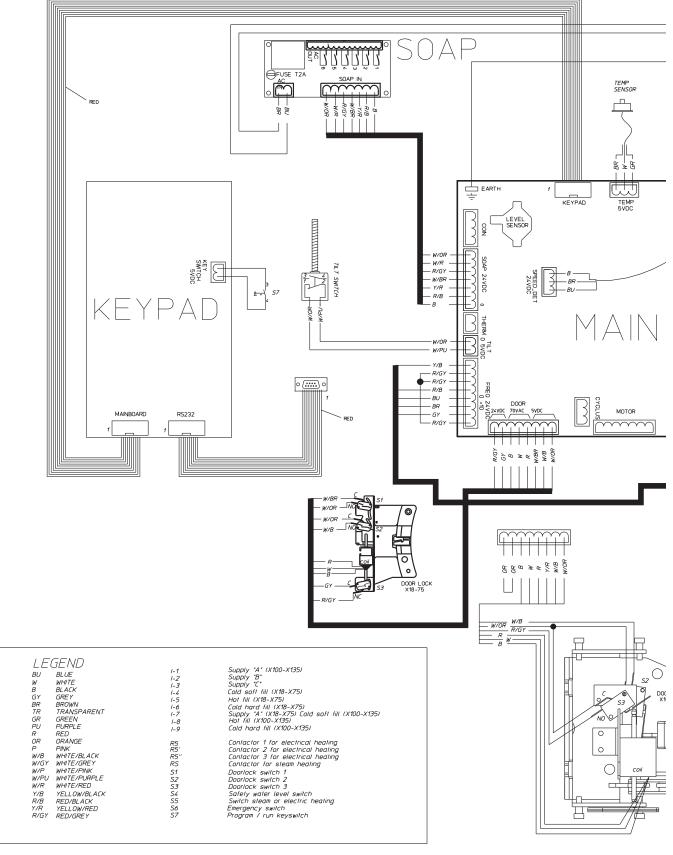


CFD2029S

Troubleshooting

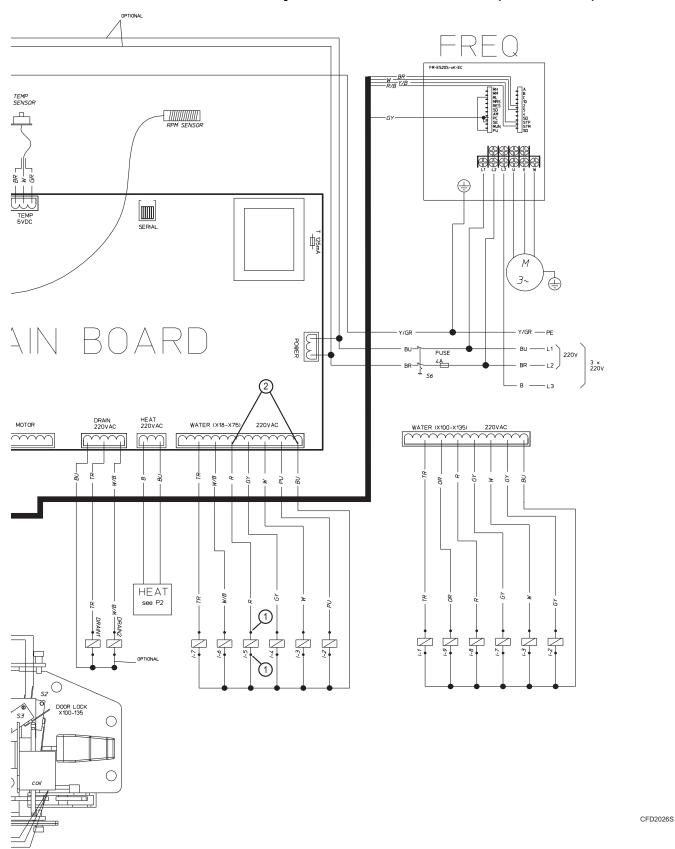
Please refer to the following 2 pages for wiring diagram information.

Water Runs Continuously into the Washer-Extractor (Sheet 1 of 2)

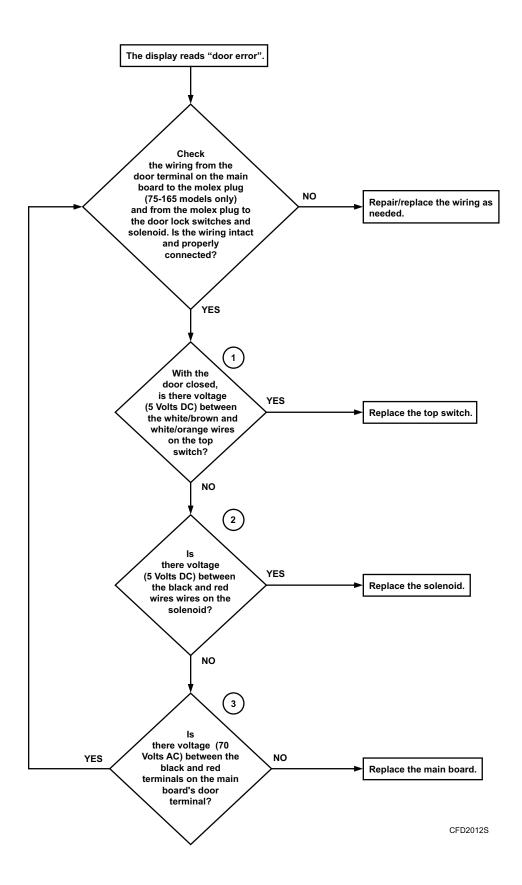


NOTE: Refer to the wiring diagram supplied with your machine.

Water Runs Continuously into the Washer-Extractor (Sheet 2 of 2)



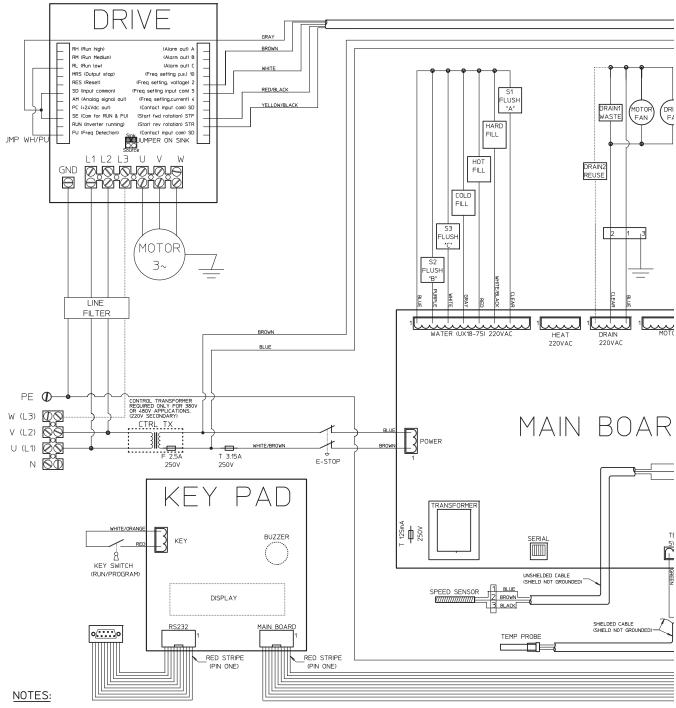
6. Door Lock Switch Analysis: Display Shows "Door Error"



Troubleshooting

Please refer to the following 2 pages for wiring diagram information.

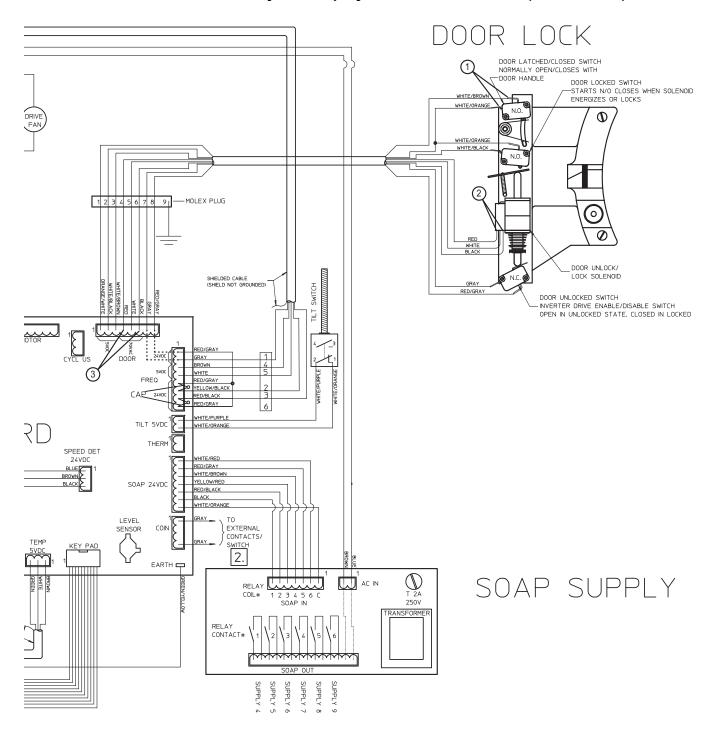
Door Lock Switch Analysis: Display Shows "Door Error" (Sheet 1 of 2)



- COMPARTMENT 'A' WILL FLUSH WHEN SUPPLY 1 8 4-9 ARE PROGRAMMED. COMPARTMENT 'B' WILL FLUSH WHEN SUPPLY 2 IS PROGRAMMED. COMPARTMENT 'C' WILL FLUSH WHEN SUPPLY 3 IS PROGRAMMED.
- 2. CHEMICAL HOLD FEATURE: IF THE COIN CONNECTOR PINS 1 & 4 ARE NOT SHORTED TOGETHER, THE CYCLE WILL STOP & HOLD AT A SUPPLY 4, 5, 6, 7, 8 OR 9 STEP. THE STEP WILL EXIT HOLD & BEGIN TIMING DOWN WHEN THE PINS ARE SHORTED. THIS ALLOWS MULTIPLE MACHINES TO USE A SINGLE CHEMICAL SUPPLY DISPENSER. COIN CONNECTOR PINS DO NOT NEED TO BE SHORTED IF CHEMICAL HOLD FEATURE DEACTIVATED.
- 3. WIRE COLORS MAY VARY.

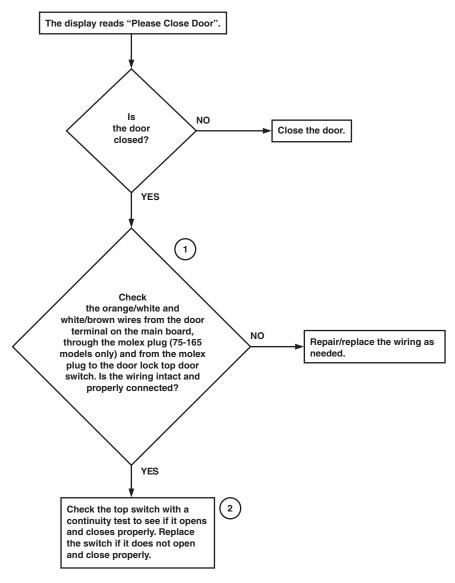
NOTE: Refer to the wiring diagram supplied with your machine.

Door Lock Switch Analysis: Display Shows "Door Error" (Sheet 2 of 2)



CFD2027S

7. Door Lock Switch Analysis: Display Reads "Please Close Door"

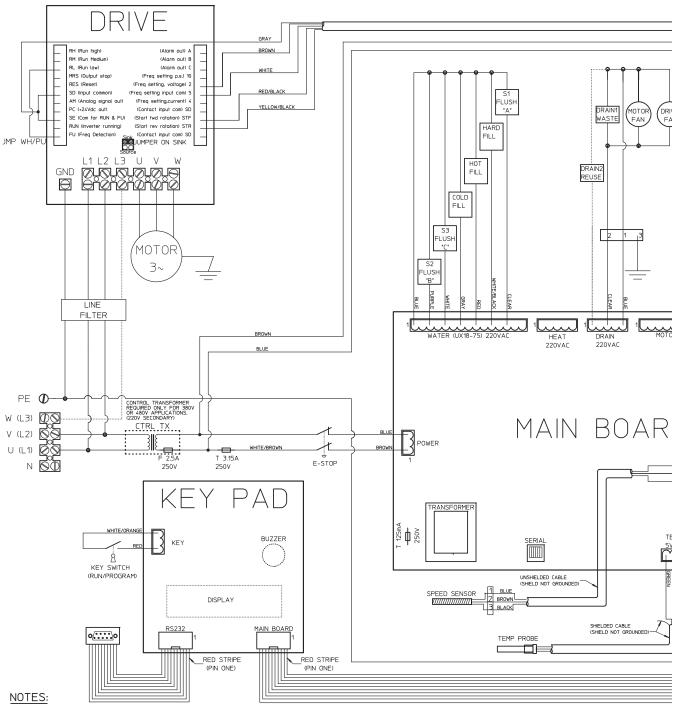


CFD1995S

Troubleshooting

Please refer to the following 2 pages for wiring diagram information.

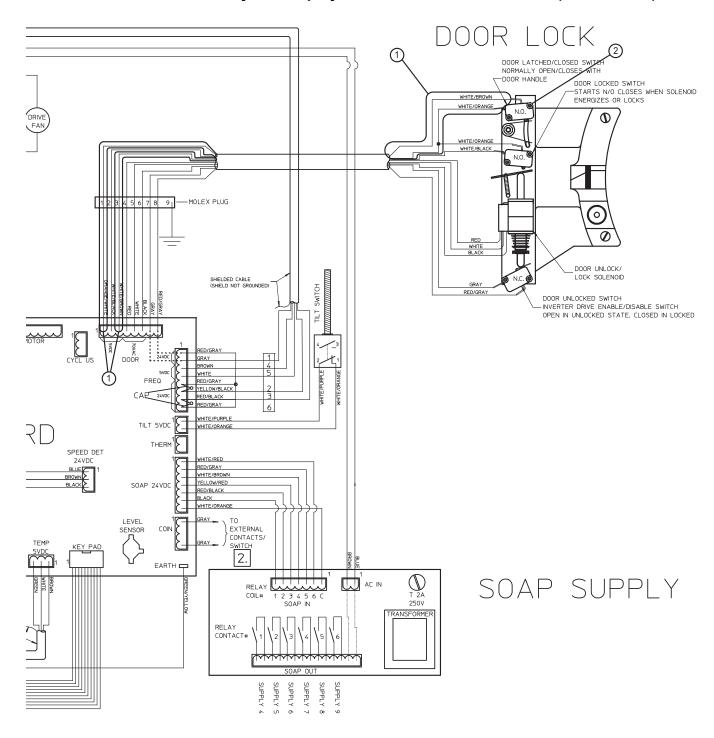
Door Lock Switch Analysis: Display Reads "Please Close Door" (Sheet 1 of 2)



- COMPARTMENT "A" WILL FLUSH WHEN SUPPLY 1 & 4-9 ARE PROGRAMMED COMPARTMENT "B" WILL FLUSH WHEN SUPPLY 2 IS PROGRAMMED. COMPARTMENT "C" WILL FLUSH WHEN SUPPLY 3 IS PROGRAMMED.
- 2. CHEMICAL HOLD FEATURE: IF THE COIN CONNECTOR PINS 1 & 4 ARE NOT SHORTED TOGETHER, THE CYCLE WILL STOP & HOLD AT A SUPPLY 4, 5, 6, 7, 8 OR 9 STEP. THE STEP WILL EXIT HOLD & BEGIN TIMING DOWN WHEN THE PINS ARE SHORTED. THIS ALLOWS MULTIPLE MACHINES TO USE A SINGLE CHEMICAL SUPPLY DISPENSER. COIN CONNECTOR PINS DO NOT NEED TO BE SHORTED IF CHEMICAL HOLD FEATURE DEACTIVATED.
- 3. WIRE COLORS MAY VARY.

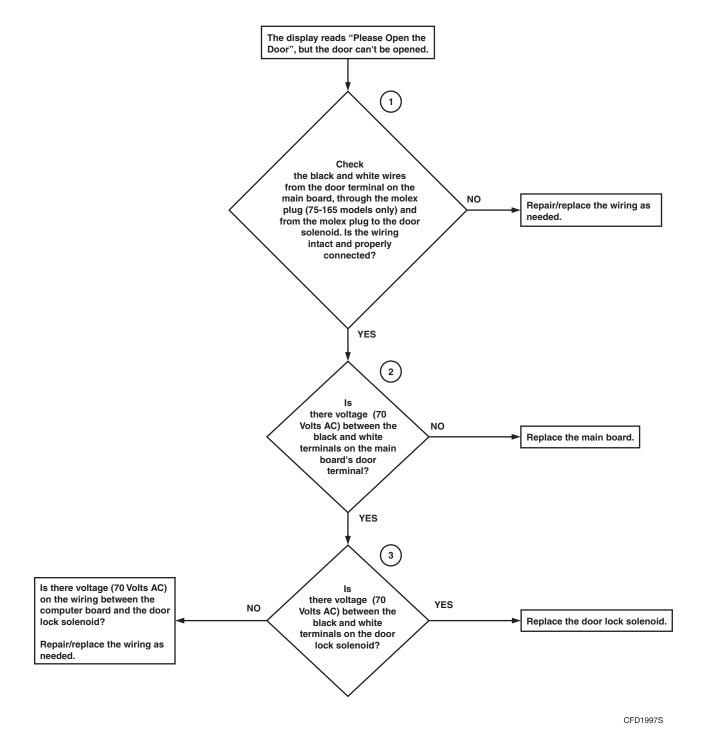
NOTE: Refer to the wiring diagram supplied with your machine.

Door Lock Switch Analysis: Display Reads "Please Close Door" (Sheet 2 of 2)



CFD2028S

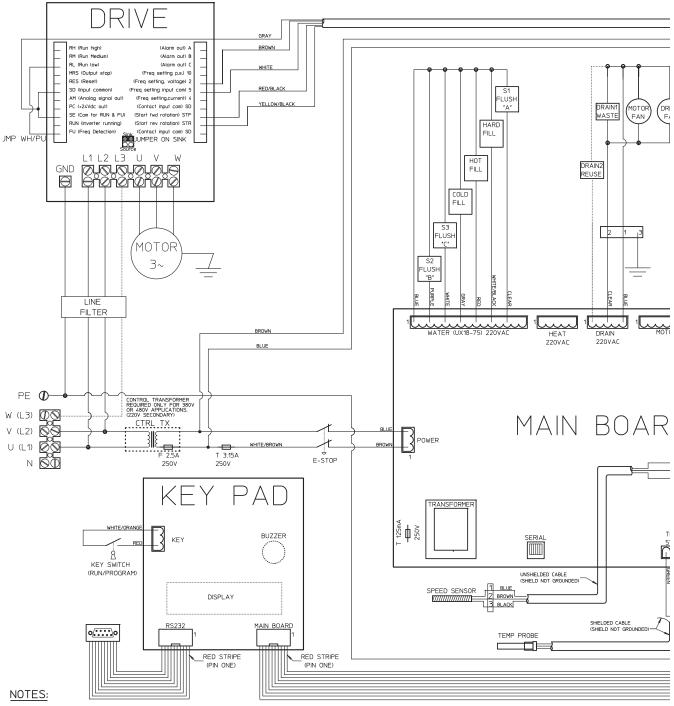
8. Door Lock Switch Analysis: "Door Won't Unlock"



Troubleshooting

Please refer to the following 2 pages for wiring diagram information.

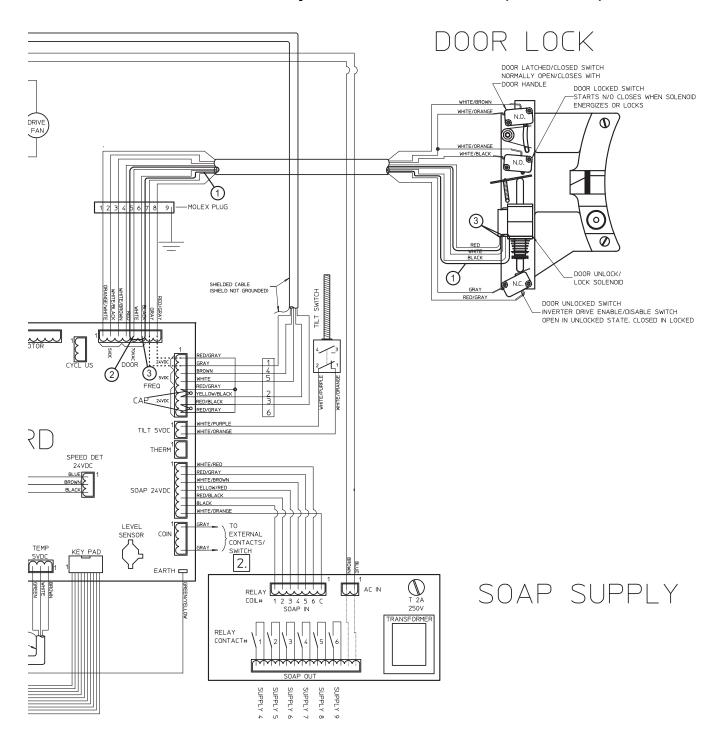
Door Lock Switch Analysis: "Door Won't Unlock" (Sheet 1 of 2)



- COMPARTMENT 'A' WILL FLUSH WHEN SUPPLY 1 & 4-9 ARE PROGRAMMED. COMPARTMENT 'B' WILL FLUSH WHEN SUPPLY 2 IS PROGRAMMED. COMPARTMENT 'C' WILL FLUSH WHEN SUPPLY 3 IS PROGRAMMED.
- 2. CHEMICAL HOLD FEATURE: IF THE COIN CONNECTOR PINS 1 & 4 ARE NOT SHORTED TOGETHER, THE CYCLE WILL STOP & HOLD AT A SUPPLY 4, 5, 6, 7, 8 OR 9 STEP. THE STEP WILL EXIT HOLD & BEGIN TIMING DOWN WHEN THE PINS ARE SHORTED. THIS ALLOWS MULTIPLE MACHINES TO USE A SINGLE CHEMICAL SUPPLY DISPENSER. COIN CONNECTOR PINS DO NOT NEED TO BE SHORTED IF CHEMICAL HOLD FEATURE DEACTIVATED.
- 3. WIRE COLORS MAY VARY.

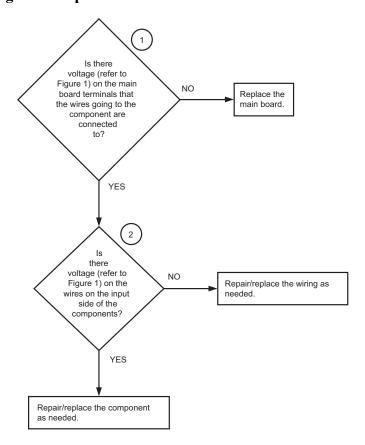
NOTE: Refer to the wiring diagram supplied with your machine.

Door Lock Switch Analysis: "Door Won't Unlock" (Sheet 2 of 2)



CFD2018S

9. No Output Voltage to Components



Component Voltage/Reading Points Chart

Component	Voltage Reading Points	Voltage Reading		
Water				
Flush A	Clear wire to Blue wire	220 Volts AC		
Hard Fill	White/Black wire to Blue wire	220 Volts AC		
Hot Fill	Red wire to Blue wire	220 Volts AC		
Cold Fill	Gray wire to Blue wire	220 Volts AC		
Flush C	White wire to Blue wire	220 Volts AC		
Flush B	Purple wire to Blue wire	220 Volts AC		
Drain				
Drain Motor Fan	Clear wire to Blue wire	220 Volts AC		
Drive Fan	Clear wire to Blue wire	220 Volts AC		
Door				
Door Latch Switch	Orange/White wire to White/Brown wire	5 Volts DC*		
Door Lock Switch	Orange/White wire to White/Black wire	5 Volts DC*		
Door Solenoid	Black wire to Red or White wire	70 Volts AC		
Tilt				
Tilt	White/Purple wire to White/Orange wire	5 Volts DC**		
Soap				
S4	White/Orange wire to Black wire	24 Volts DC		
S5	Red/Black wire to Black wire	24 Volts DC		
S6	Yellow/Red wire to Black wire	24 Volts DC		
S7	White/Brown wire to Black wire	24 Volts DC		
S8	Red/Gray wire to Black wire	24 Volts DC		
S9	White/Red wire to Black wire	24 Volts DC		

^{*} With the door open

CFD2017S

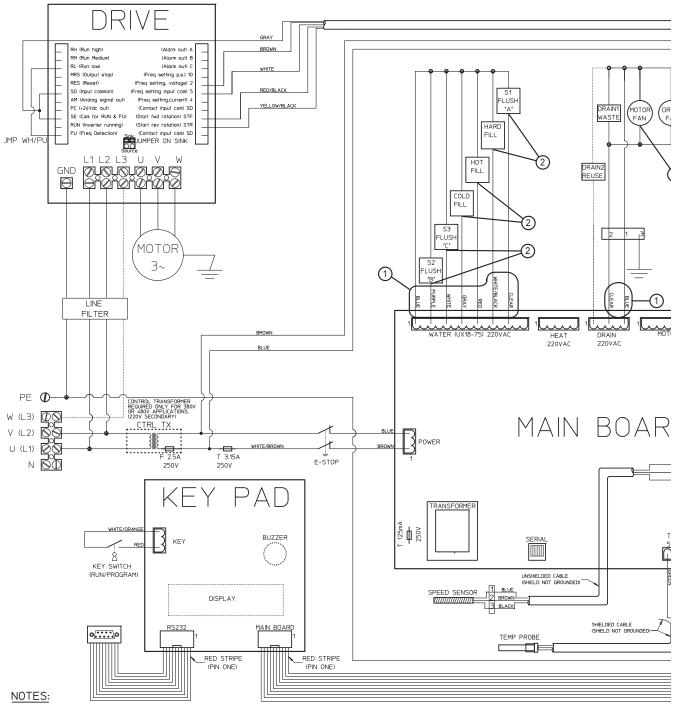
Figure 1

^{**} With the door closed

Troubleshooting

Please refer to the following 2 pages for wiring diagram information.

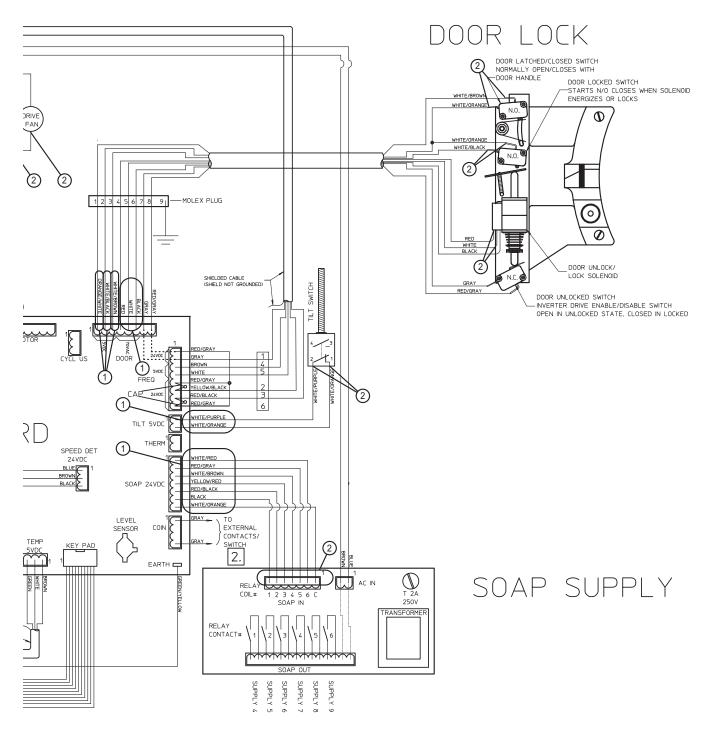
No Output Voltage to Components (Sheet 1 of 2)



- COMPARTMENT 'A' WILL FLUSH WHEN SUPPLY 1 & 4-9 ARE PROGRAMMED. COMPARTMENT 'B' WILL FLUSH WHEN SUPPLY 2 IS PROGRAMMED. COMPARTMENT 'C' WILL FLUSH WHEN SUPPLY 3 IS PROGRAMMED.
- 2. CHEMICAL HOLD FEATURE: IF THE COIN CONNECTOR PINS 1 & 4 ARE NOT SHORTED TOGETHER, THE CYCLE WILL STOP & HOLD AT A SUPPLY 4, 5, 6, 7, 8 OR 9 STEP. THE STEP WILL EXIT HOLD & BEGIN TIMING DOWN WHEN THE PINS ARE SHORTED. THIS ALLOWS MULTIPLE MACHINES TO USE A SINGLE CHEMICAL SUPPLY DISPENSER. COIN CONNECTOR PINS DO NOT NEED TO BE SHORTED IF CHEMICAL HOLD FEATURE DEACTIVATED.
- 3. WIRE COLORS MAY VARY.

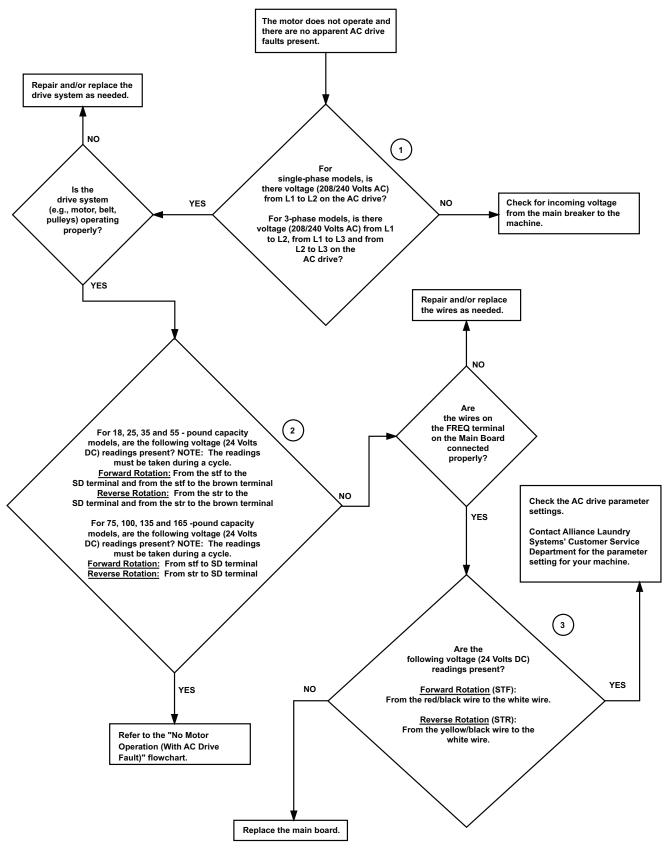
NOTE: Refer to the wiring diagram supplied with your machine.

No Output Voltage to Components (Sheet 2 of 2)



CFD2019S

10. No Motor Operation With No AC Drive Fault

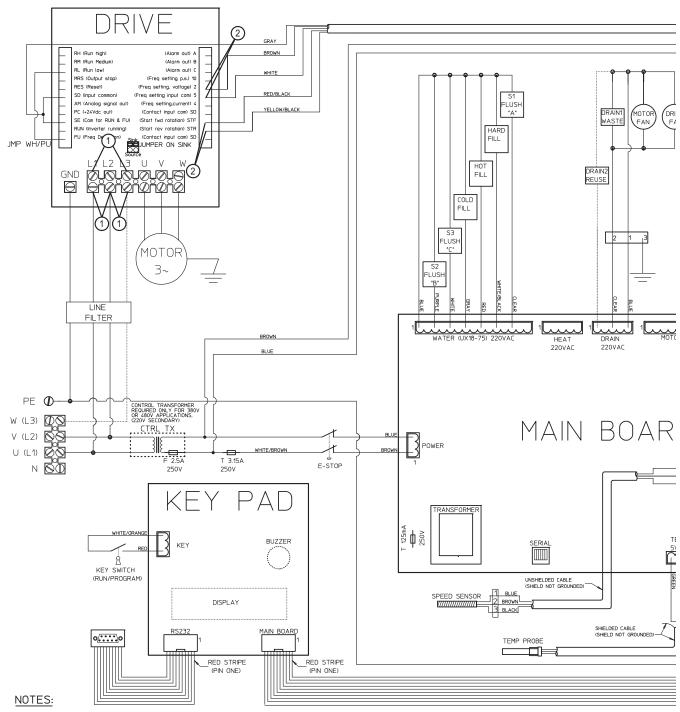


CFD2013S

Troubleshooting

Please refer to the following 2 pages for wiring diagram information.

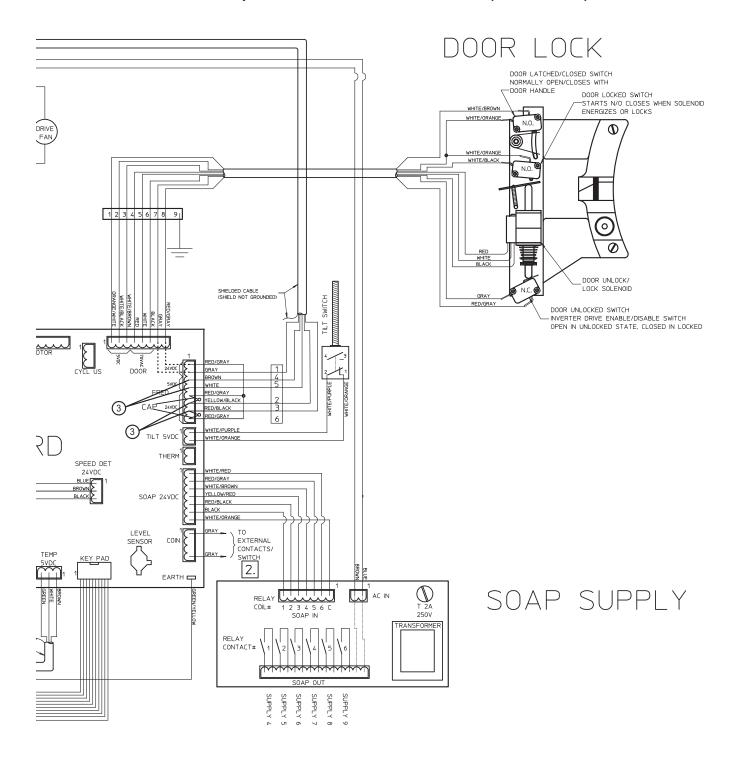
No Motor Operation With No AC Drive Fault (Sheet 1 of 2)



- COMPARTMENT 'A' WILL FLUSH WHEN SUPPLY 1 & 4-9 ARE PROGRAMMED.
 COMPARTMENT 'B' WILL FLUSH WHEN SUPPLY 2 IS PROGRAMMED.
 COMPARTMENT 'C' WILL FLUSH WHEN SUPPLY 3 IS PROGRAMMED.
- 2. CHEMICAL HOLD FEATURE: IF THE COIN CONNECTOR PINS 1 & 4 ARE NOT SHORTED TOGETHER, THE CYCLE WILL STOP & HOLD AT A SUPPLY 4, 5, 6, 7, 8 OR 9 STEP. THE STEP WILL EXIT HOLD & BEGIN TIMING DOWN WHEN THE PINS ARE SHORTED. THIS ALLOWS MULTIPLE MACHINES TO USE A SINGLE CHEMICAL SUPPLY DISPENSER. COIN CONNECTOR PINS DO NOT NEED TO BE SHORTED IF CHEMICAL HOLD FEATURE DEACTIVATED.
- 3. WIRE COLORS MAY VARY.

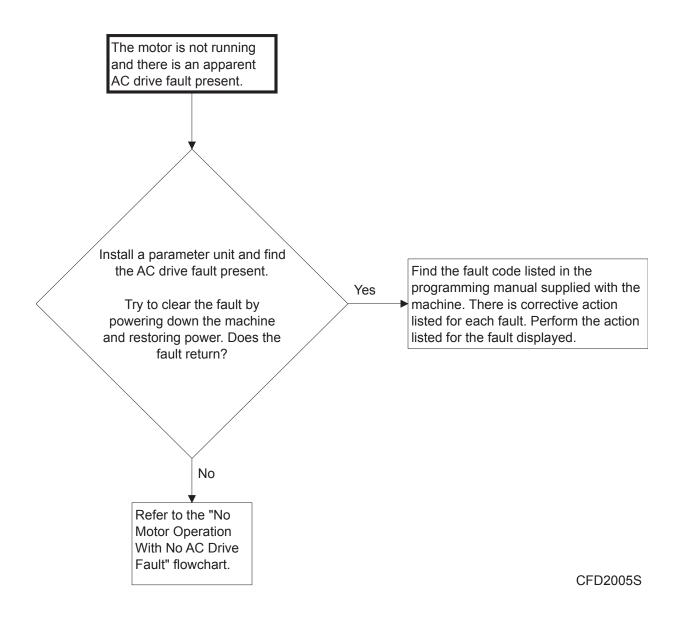
NOTE: Refer to the wiring diagram supplied with your machine.

No Motor Operation With No AC Drive Fault (Sheet 2 of 2)

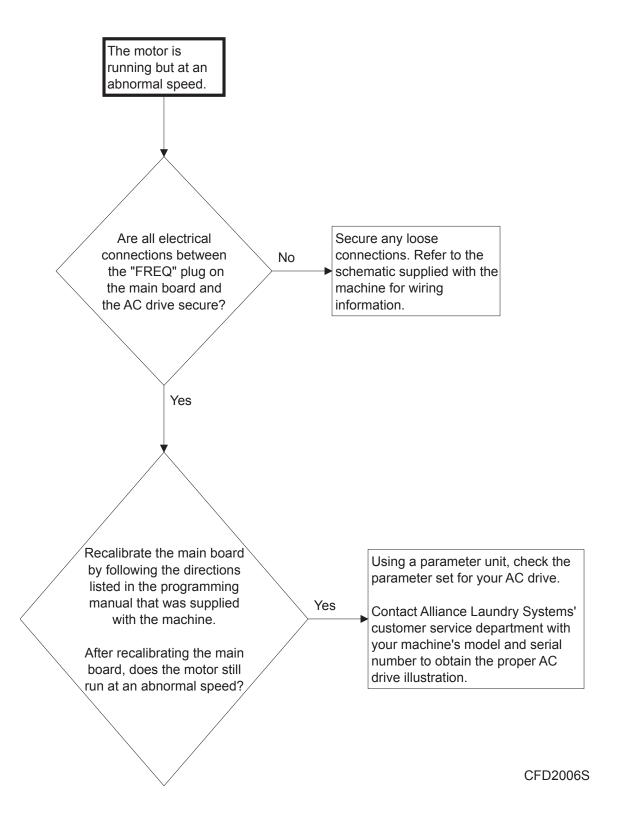


CFD2020S

11. No Motor Operation With AC Drive Fault



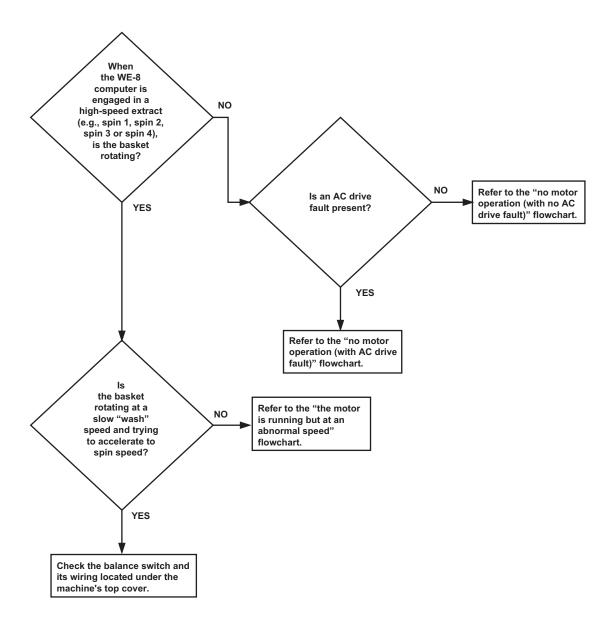
12. The Motor is Running But at an Abnormal Speed



Troubleshooting

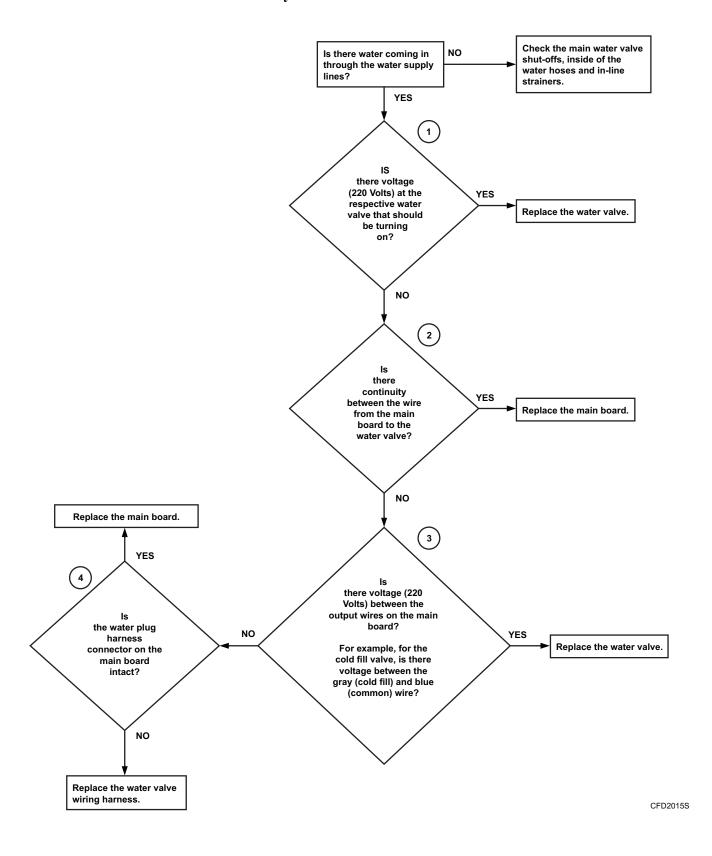
13. No Spin

NOTE: While performing this check, make sure that the washer-extractor is running with a normal-size load.



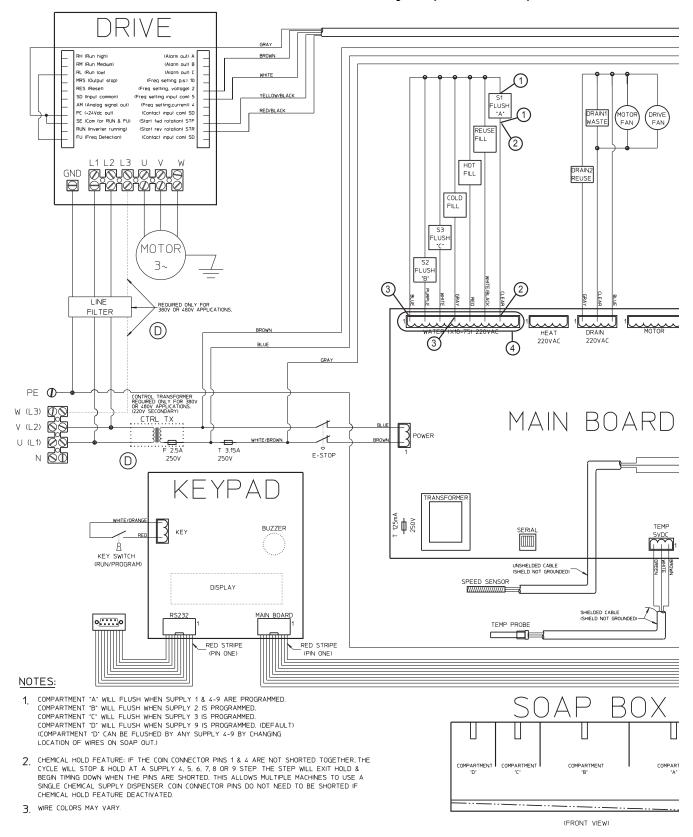
CFD2030S

14. Machine Did Not Fill Alarm Analysis



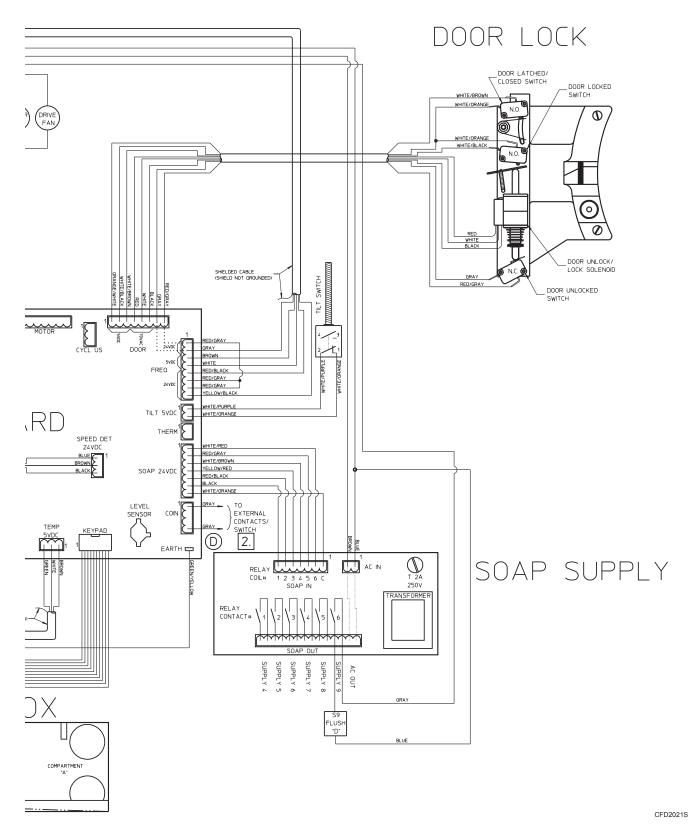
Please refer to the following 2 pages for wiring diagram information.

Machine Did Not Fill Alarm Analysis (Sheet 1 of 2)

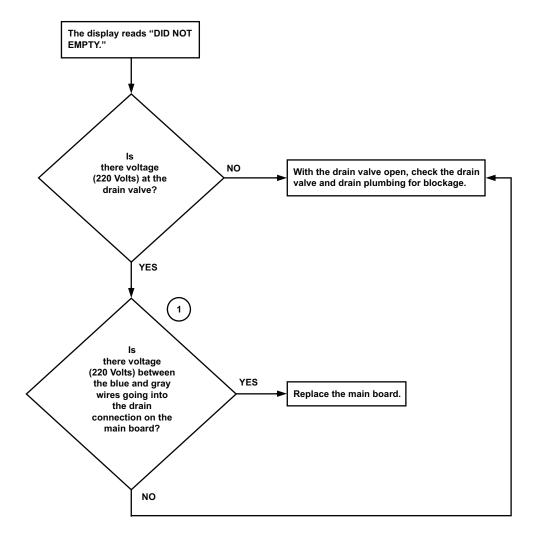


NOTE: Refer to the wiring diagram supplied with your machine.

Machine Did Not Fill Alarm Analysis (Sheet 2 of 2)



15. Empty Alarm Analysis

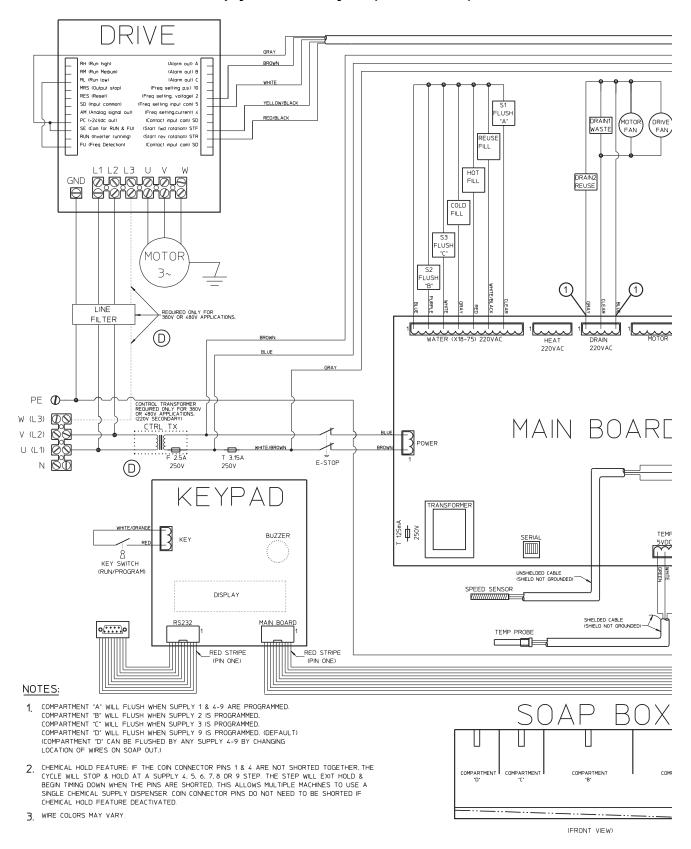


CFD2016S

Troubleshooting

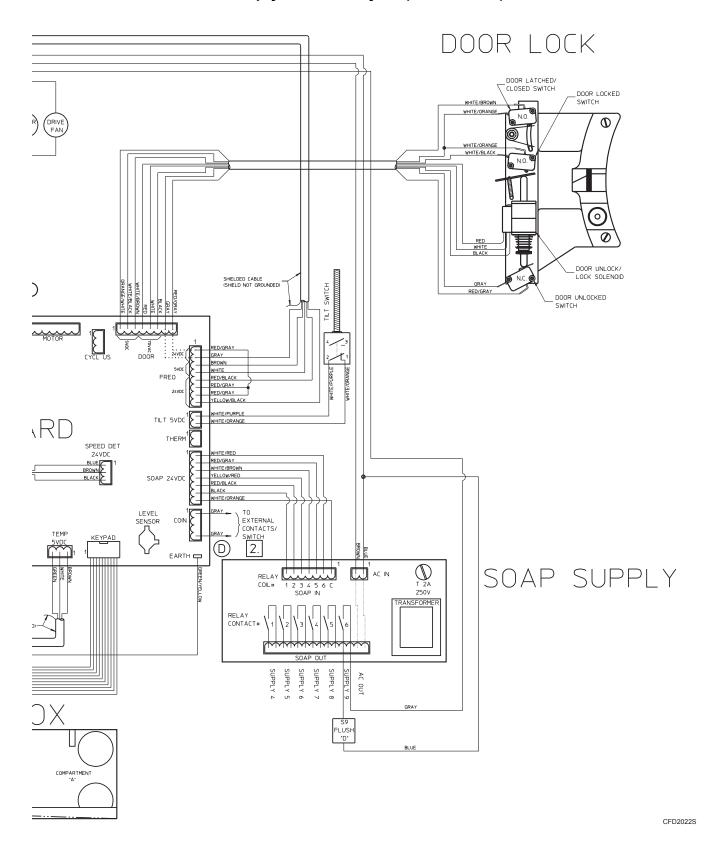
Please refer to the following 2 pages for wiring diagram information.

Empty Alarm Analysis (Sheet 1 of 2)



NOTE: Refer to the wiring diagram supplied with your machine.

Empty Alarm Analysis (Sheet 2 of 2)



Troubleshooting

16. Automatic Supply Dispenser Analysis

Run Program 38.

Cycle 38 Supply Setup			
Step	Description	Min:sec	
1	Warm Fill to Low Level	5:00	
2	Supply 1	2:00	
3	Supply 2	2:00	
4	Supply 3	2:00	
5	Supply 4	2:00	
6	Supply 5	2:00	
7	Drain 1	1:00	

Cycle 38 Supply Setup			
Step	Description	Min:sec	
8	Warm Fill to Low Level	5:00	
9	Supply 6	2:00	
10	Supply 7	2:00	
11	Supply 8	2:00	
12	Supply 9	2:00	
13	Wash 1 18/3 (80°F)	0:30	
14	Drain 1	1:00	

Run the cycle and, with the respective supply on the main display, refer to the following chart for the function that should be occurring:

Supply	Function	Voltage
1	Turns on the water valve in compartment A of the supply box.	N/A
2	Turns on the water valve in compartment B of the supply box.	N/A
3	Turns on the water valve in compartment C of the supply box.	N/A
4	Activates supply relay 1. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 1 and14
5	Activates supply relay 2. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 3 and14
6	Activates supply relay 3. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 5 and 14
7	Activates supply relay 4. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 7 and 14
8	Activates supply relay 5. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 9 and14
9	Activates supply relay 6. Visibly inspect the relay to see if it is closing and check for voltage.	220 Volts between terminals 11 and14

During each step, test for voltage (220 Volts) between each respective supply terminal and the common terminal on the supply terminal board. Terminal 14 is the common terminal for the pumps.

The supply terminal board should be wired as shown in *Figure 2*.

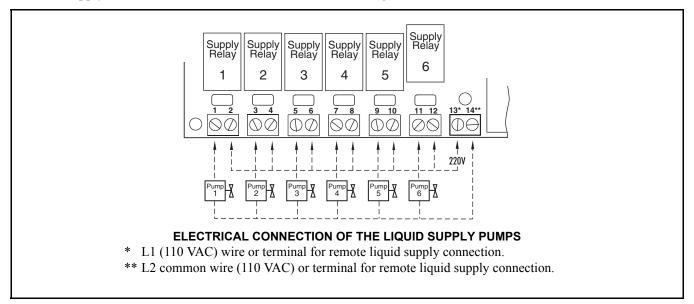
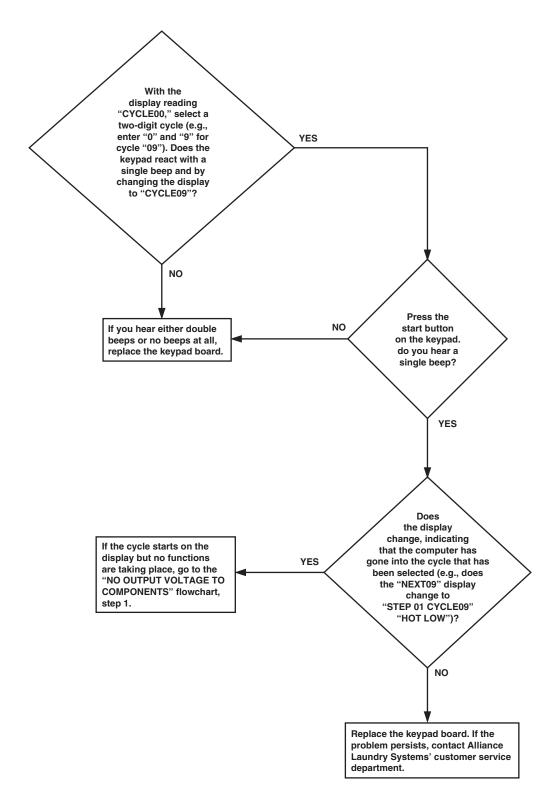


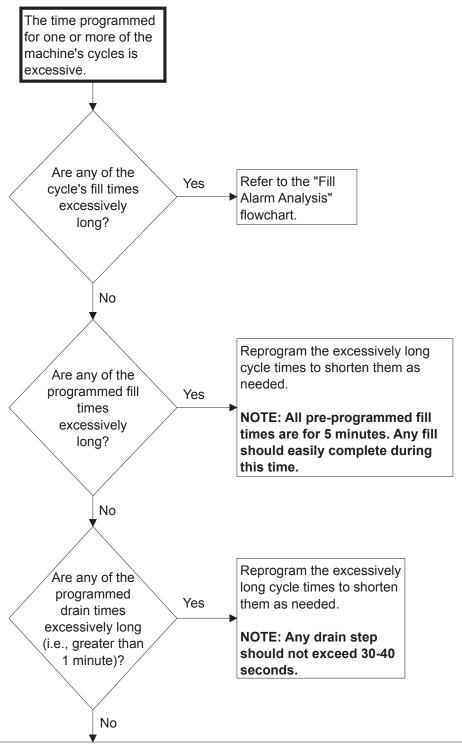
Figure 2

17. No Keypad Board Functions



CFD1987S

18. Excessive Cycle Time

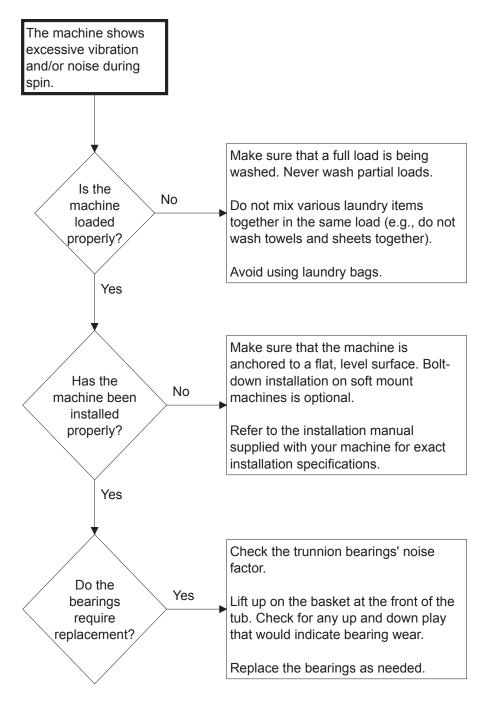


Check the cycle for unnecessary steps.

For example, in the first fill of a cycle, if "S02 CXX 0:0045" "SUPPLY1" is programmed for 45 seconds and "S03 CXX 0:00:45" "Supply2" is programmed for 45 seconds, the two steps can be accomplished together at the same time, saving 45 seconds. Refer to the "Programming Multiple Supply Steps" section of the programming manual that was supplied with your machine.

CFD2007S

19. Excessive Vibration and/or Noise During Spin



CFD2008S

20. Cycle Memory Error

If an unknown component is found within one or more wash cycles, the cycles are corrupt. Using the Alliance Planner Software, rewrite the cycles to the machine's control.