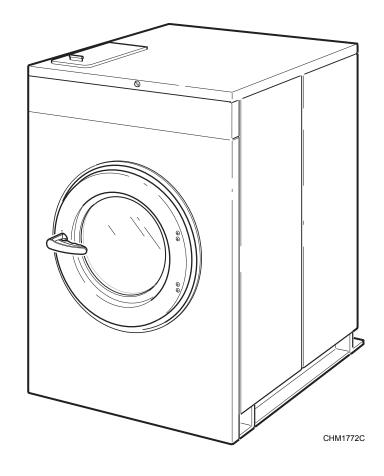
Washer-Extractor

Cabinet Hardmount Refer to Page 8 for Model Numbers





www.comlaundry.com

Troubleshooting

Part No. F8266301 December 2009

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Safety Information

Explanation of Safety Messages

Throughout this manual and on machine decals, you will find precautionary statements ("DANGER," "WARNING," and "CAUTION") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

Danger indicates the presence of a hazard that will cause severe personal injury, death or substantial property damage if the danger is ignored.

WARNING

Warning indicates the presence of a hazard that can cause severe personal injury, death or substantial property damage if the warning is ignored.



CAUTION

Caution indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

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

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

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 unless you understand and have the skills to carry out the servicing.
- 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.

W006R2

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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



1

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 washer.
- 2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual (supplied with your washer) for the proper grounding of the washer.
- 3. Do not wash textiles that have been previously cleaned in, washed in, soaked in or spotted with gasoline, kerosene, waxes, cooking oils, 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, 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.

- 6. Do not allow children to play on or in a washer. Close supervision of children is necessary when the washer is used near children.
- 7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
- 8. Do not reach into the washer if the wash drum is moving.
- 9. Do not install or store the washer where it will be exposed to water and/or weather.
- 10. Do not tamper with the controls.
- 11. Do not repair or replace any part of the washer or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair 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 to an electrical power source.
- 13. Use the washer only for its intended purpose, washing clothes.
- 14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
- 15. ALWAYS disconnect the washer from its electrical supply before attempting any service.
- 16. Install the washer 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.
- 17. 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. These flammable substances may cause the fabric to ignite.
- 18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- 19. Keep the washer in good condition. Bumping or dropping the washer can damage its safety features. If this occurs, have the washer checked by a qualified service person.

Safety Information

- 20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- 21. 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.
- 22. The loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch and permit the washer to operate with the loading door open.
- 23. 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).
- 24. Always follow the fabric care instructions supplied by the textile manufacturer.
- 25. Never operate the washer with any guards and/or panels removed.
- 26. DO NOT operate the washer with missing or broken parts.
- 27. DO NOT bypass any safety devices.
- 28. Failure to install, maintain and/or operate this washer 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.

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

WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.



WARNING

Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.

W703



CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025



WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

- 1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
- 2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
 - c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a service technician.

- 3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

SW039

Introduction

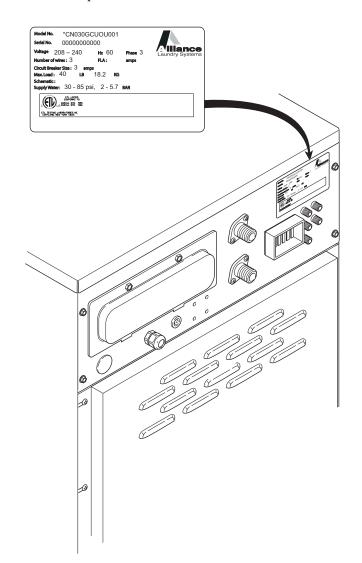
Customer Service

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 either of these numbers (920) 748-3121 Ripon, Wisconsin or +32 56 41 20 54 Wevelgem, Belgium.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



CHM3025P

Model Identification

Information in this manual is applicable to these washers.

HCD020JD2	HCN040HNF	HCU030HX2	SCL040HN2	SCN030JYF
HCD020LD2	HCN040HY2	HCU030KCF	SCL040JC2	SCN030JYV
HCD030LD2	HCN040HYF	HCU030KCV	SCL040JD2	SCN030KN2
HCD040LD2	HCN040KC2	HCU030KE2	SCL040JE2	SCN030KNF
HCD060LD2	HCN040KCF	HCU030KY2	SCL040JEF	SCN030LC2
HCD080LD2 HCD080LDV	HCN040KCV	HCU030KYF	SCL040JX2	SCN030LCF
HCL020HDF	HCN040KCV HCN040KD2	HCU030KYV	SCL040JX2 SCL040KN2	SCN030LCV
HCL020HDF HCL020HN2	HCN040KD2 HCN040KDV	HCU030K IV HCU040HC2	SCL040KNZ SCL040KNF	SCN030LD2
HCL020KD2	HCN040KEF	HCU040HN2	SCL040LE2	SCN030LY2
HCL020LD2	HCN040KEV	HCU040HNF	SCL060HN2	SCN030LYF
HCL030HDF	HCN040KY2	HCU040HX2	SCL060HNF	SCN030LYV
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HCN030KC2	HCU020HNF	SCL020JEF	SCN020WY2	SCN040WCF
HCN030KCF	HCU020HX2	SCL020JX2	SCN020WYF	SCN040WCV
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		SCL030JY2 SCL030KN2		
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HCN040HCF	HCU030HN2	SCL030LD2	SCN030JX2	SCN060JCV
HCN040HN2	HCU030HNF	SCL030LEV	SCN030JY2	SCN060JD2

(continued)

		(continued)		
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SCU020JC2	SCU030KN2	SCU060JLV	UCL080KNV	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		~ 2 0 0 0 0 0 2 1	2.020001111	

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 sensor turns off.

A vacuum breaker installed in the inlet plumbing 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.

In 2-speed and variable-speed models, 1 dual-speed motor drives the basket's shaft with a V-belt.

20-60 pound capacity models use 2 bearings that are held in place by a single cast-iron trunnion that is bolted to the frame. 80 and 125-pound capacity models use 2 flange-type bearings that are bolted to the frame.

Drain

Cabinet Hardmount washer-extractors use a normally open gravity-type drain system. No pump is used. When the drain valve opens, the perforated basket allows water to drain from it.

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

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.

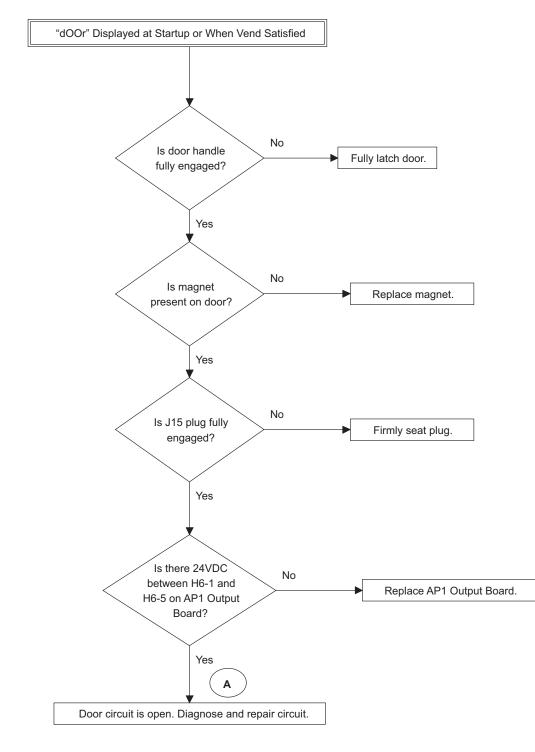
Troubleshooting

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.

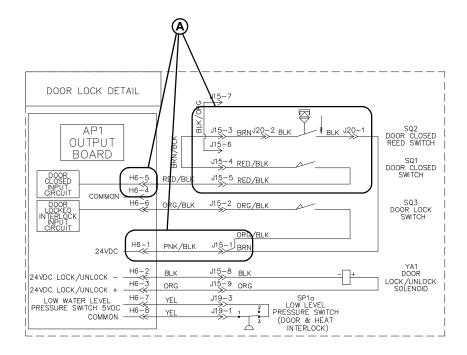
W461R1



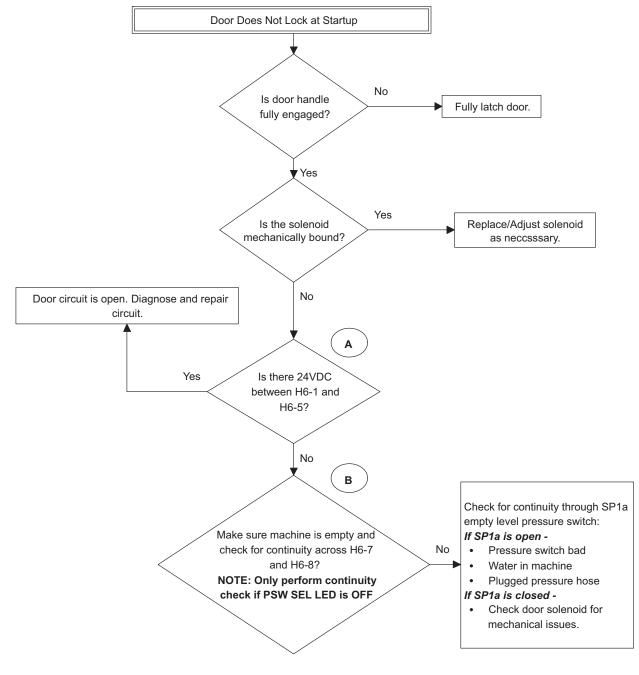
1. "dOOr" Displayed at Startup or When Vend Satisfied

CHM461S





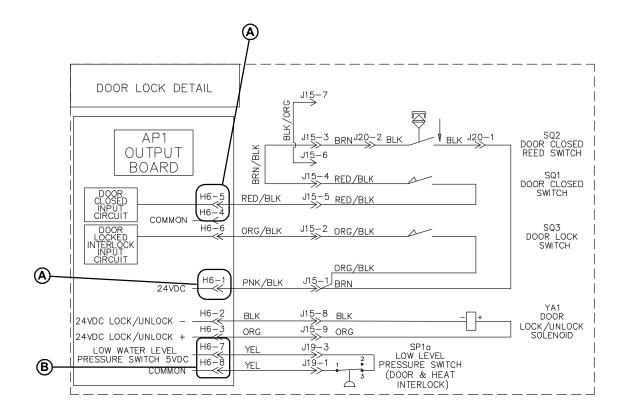
CHM504S



2. Door Does Not Lock at Startup

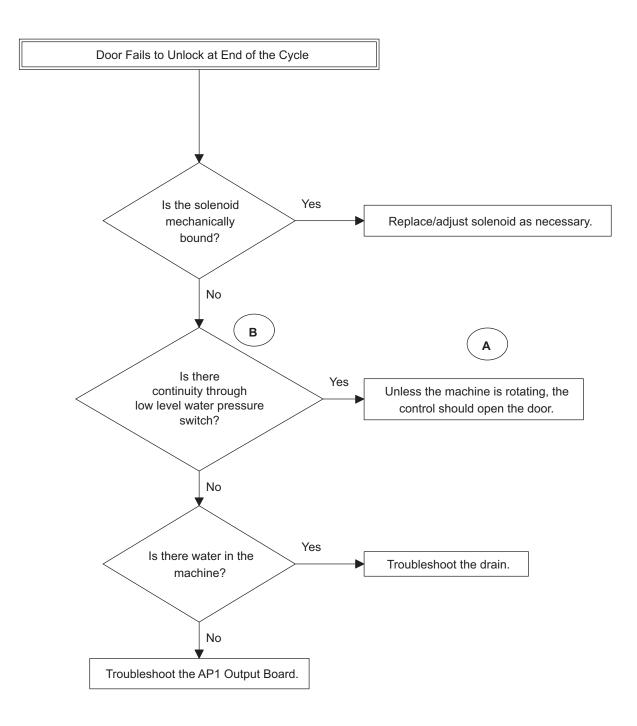
CHM480S





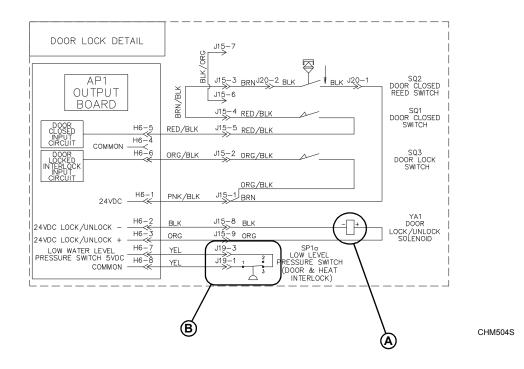
CHM504S

3. Door Fails to Unlock at End of the Cycle

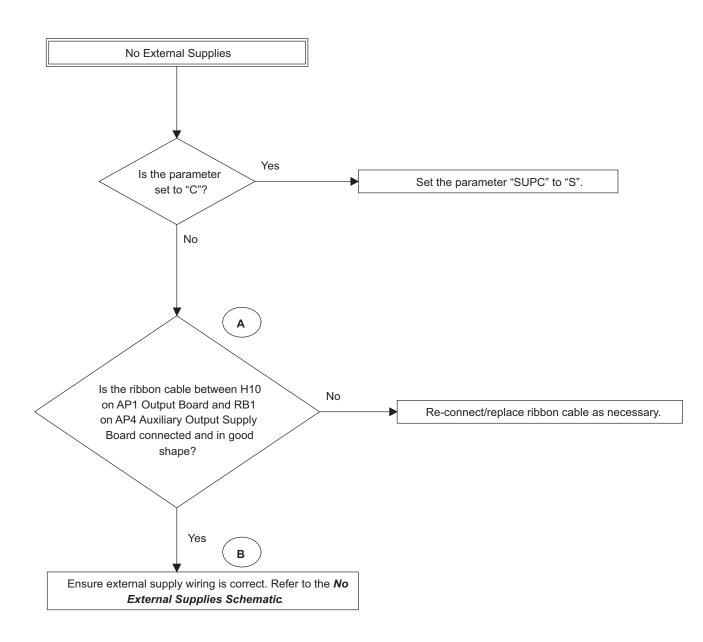


CHM462S

Door Fails to Unlock at End of the Cycle

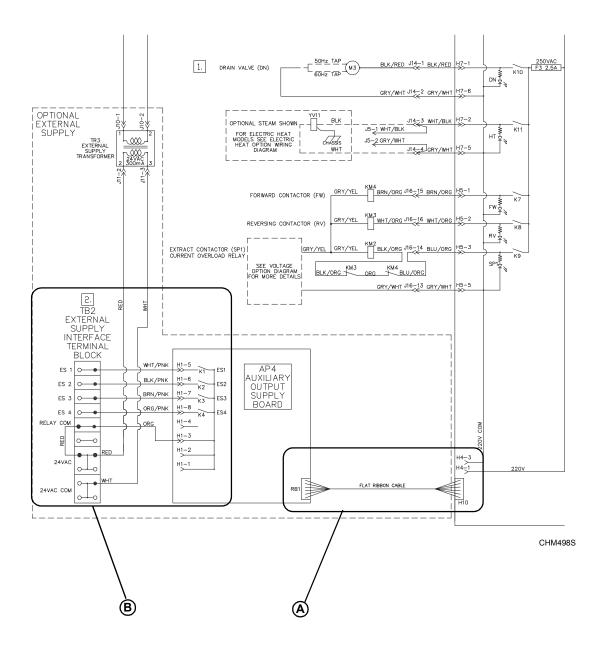


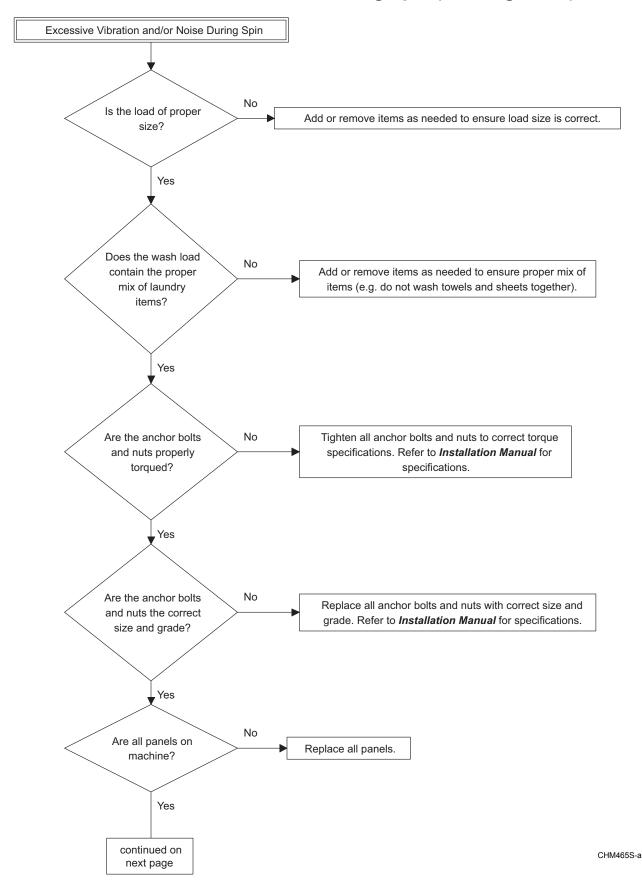
4. No External Supplies



CHM473S

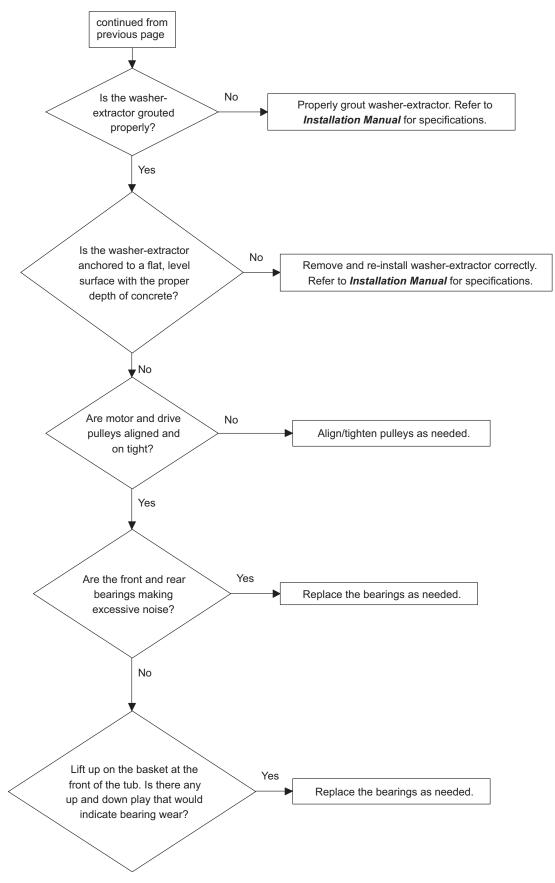
No External Supplies





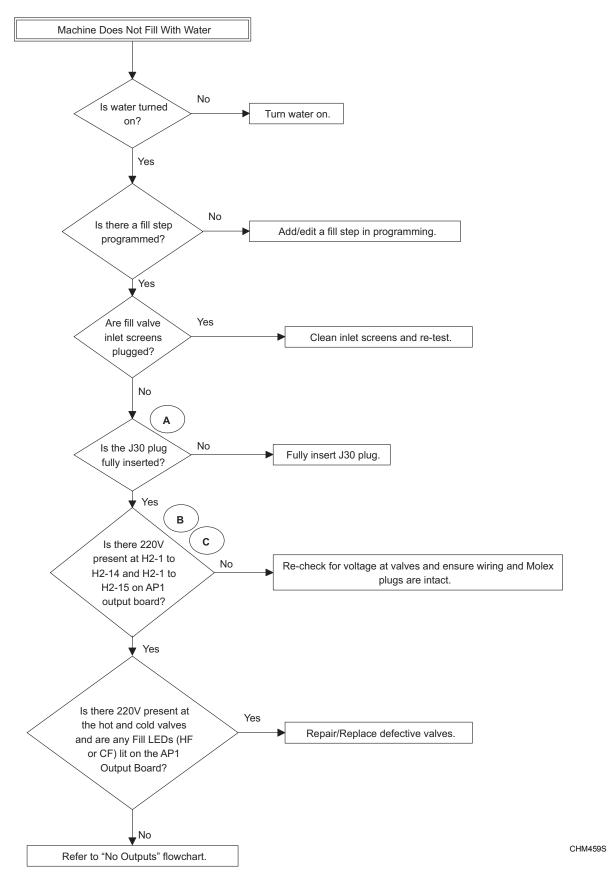
5. Excessive Vibration and/or Noise During Spin (Drawing 1 of 2)

5. Excessive Vibration and/or Noise During Spin (Drawing 2 of 2)

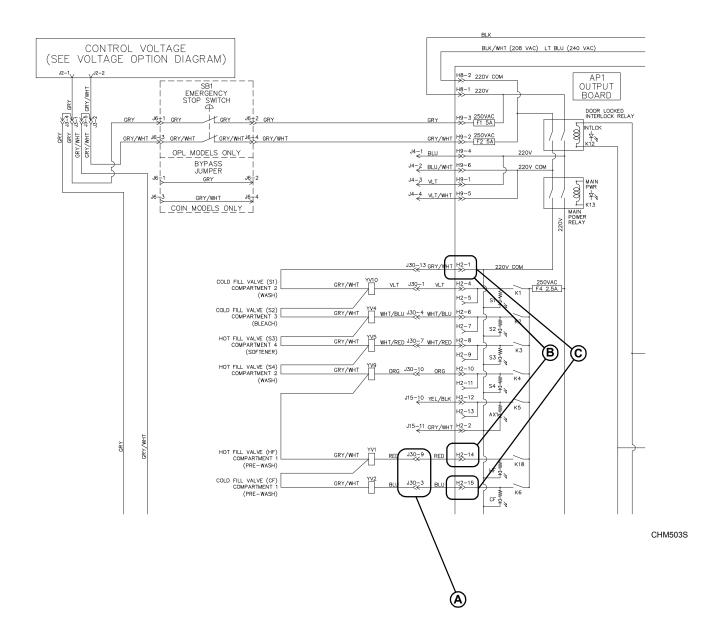


CHM465S-b

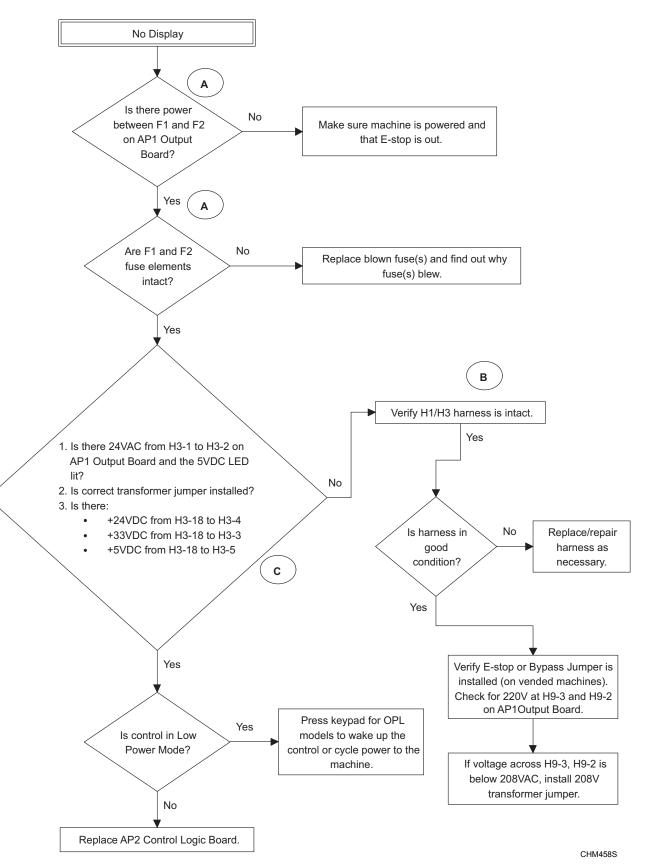




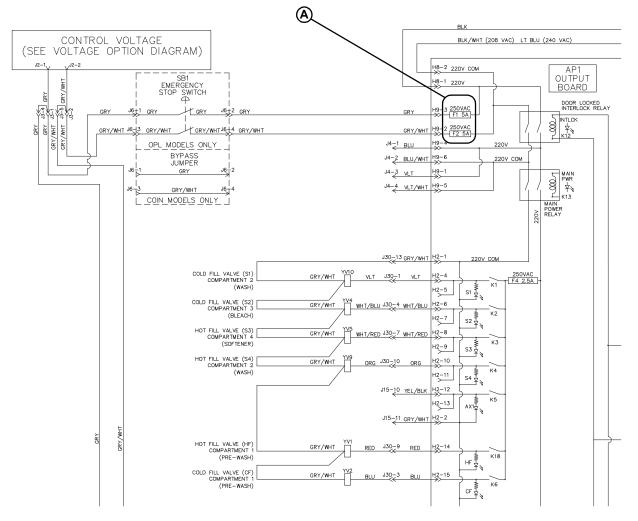
Machine Does Not Fill with Water



7. No Display



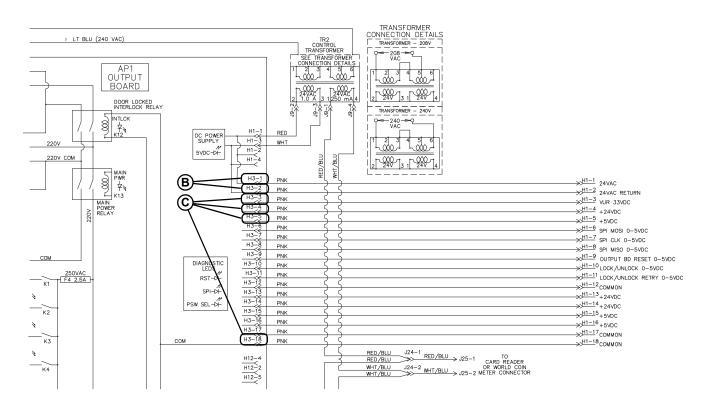
No Display (Sheet 1 of 2)



CHM503S

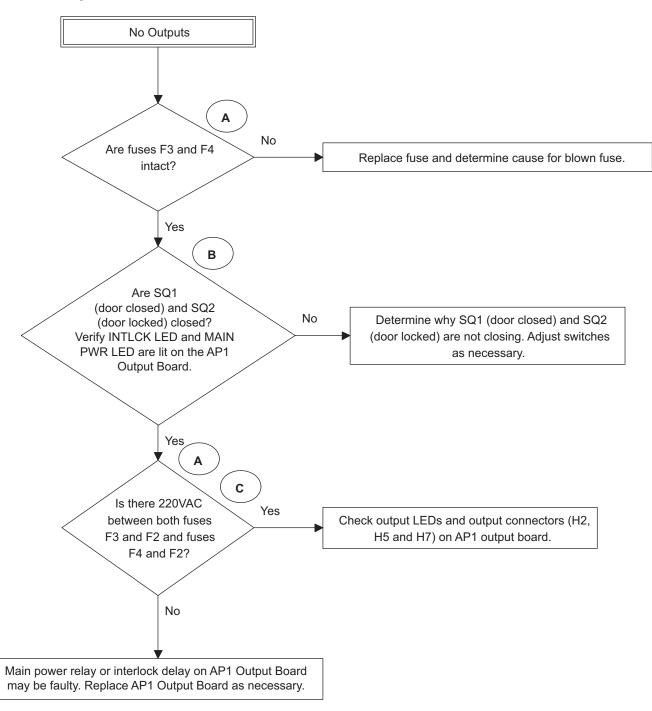
NOTE: Refer to the wiring diagram supplied with your machine.

No Display (Sheet 2 of 2)



CHM502S

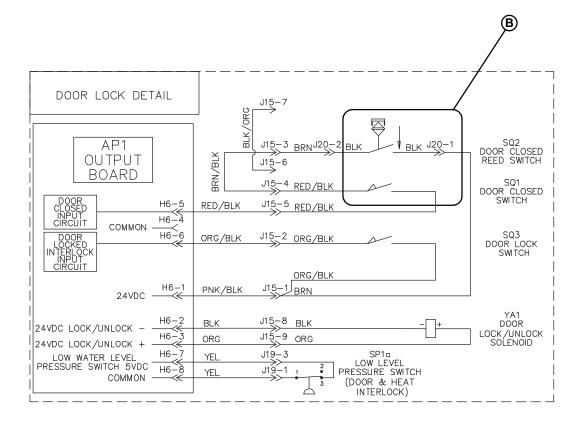
8. No Outputs



CHM464S

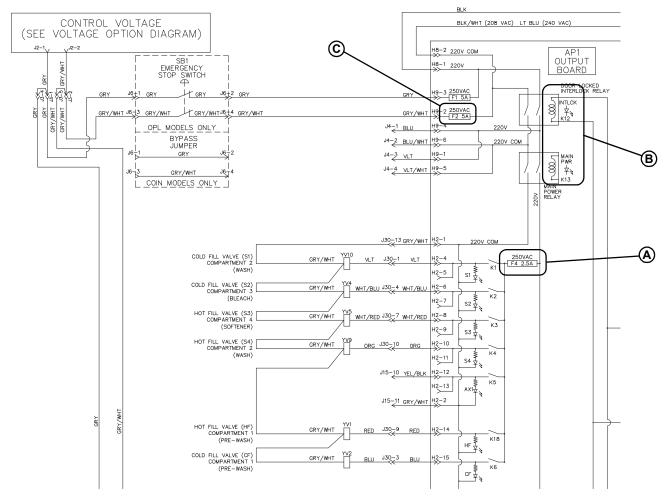
26

No Outputs (Sheet 1 of 3)



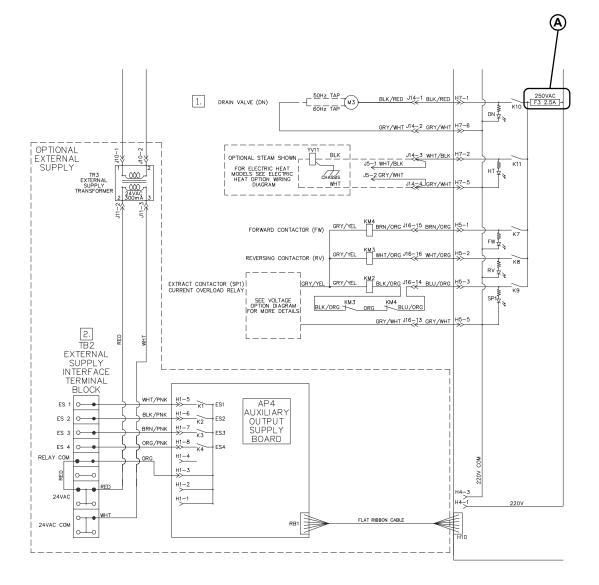
CHM504S

No Outputs (Sheet 2 of 3)



CHM503S

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

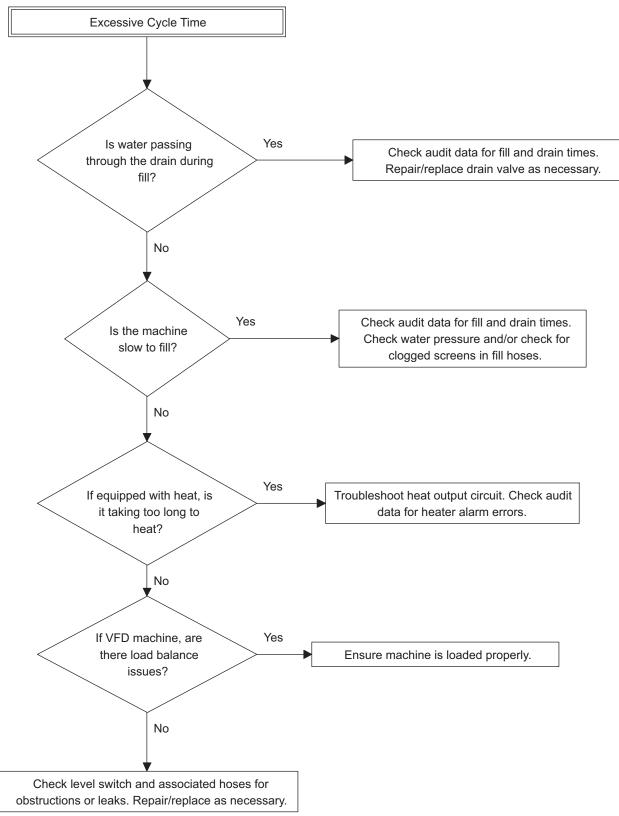


No Outputs (Sheet 3 of 3)

CHM498S

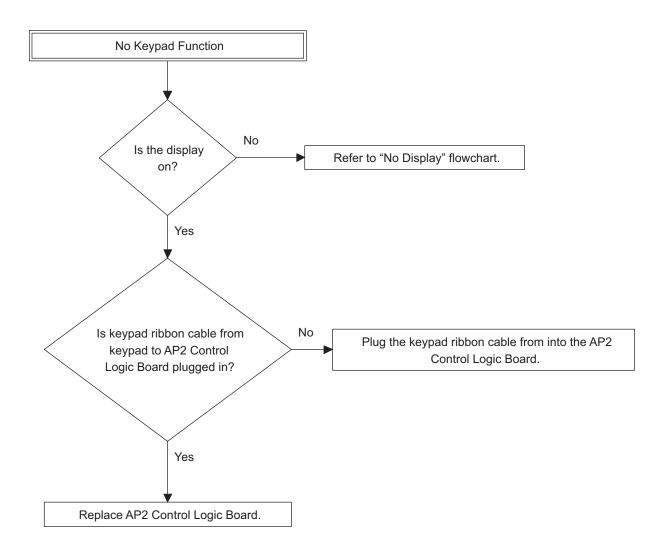
NOTE: Refer to the wiring diagram supplied with your machine.

9. Excessive Cycle Time



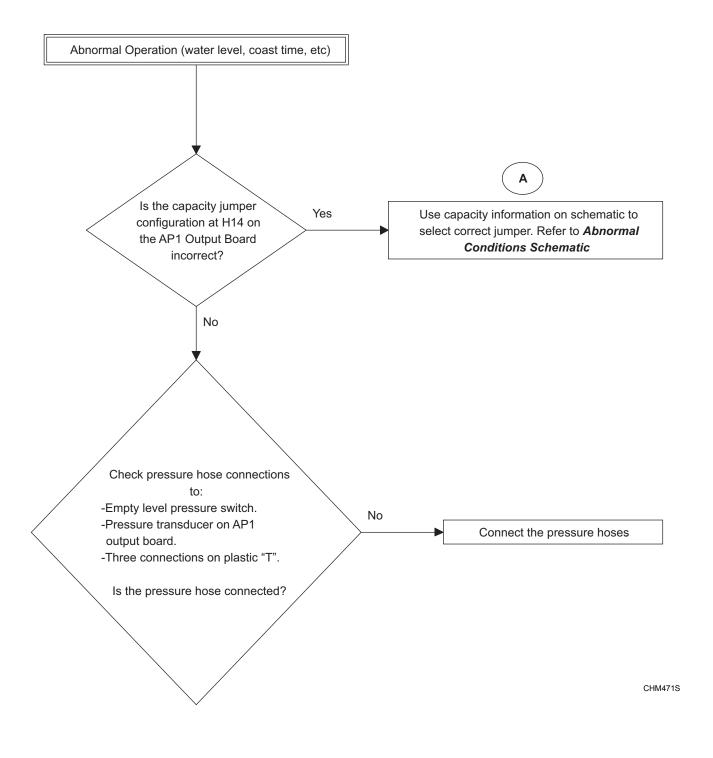
CHM472S

10. No Keypad Function

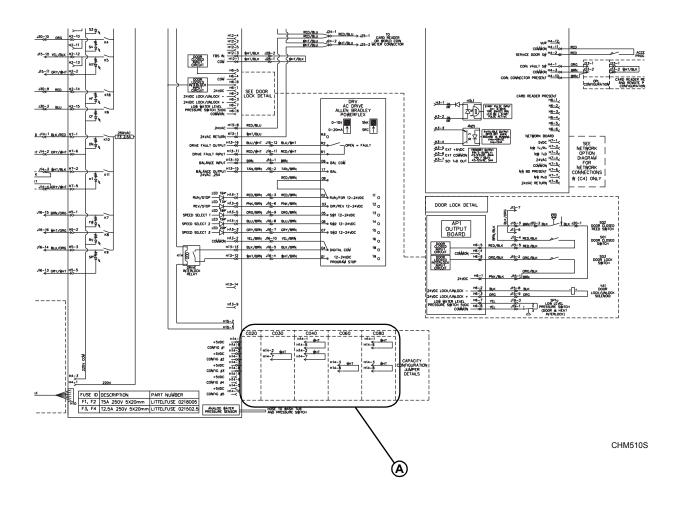


CHM470S

11. Abnormal Operation



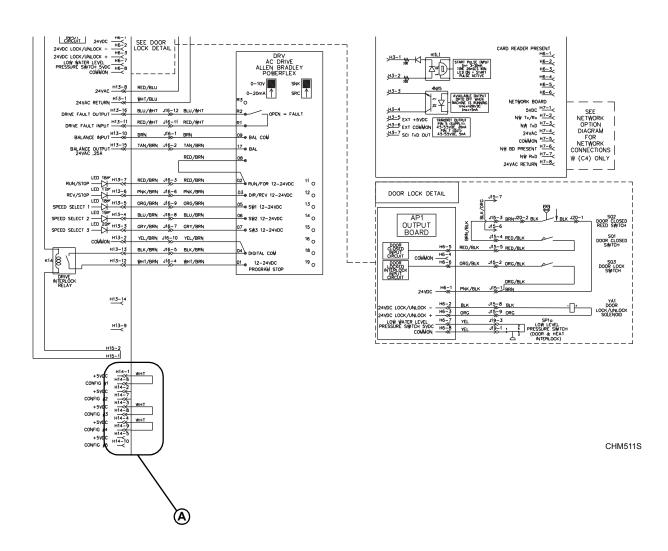
Please see following 2 pages for wiring diagram information.



Abnormal Operation – 20-80 Pound Models (Sheet 1 of 2)

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

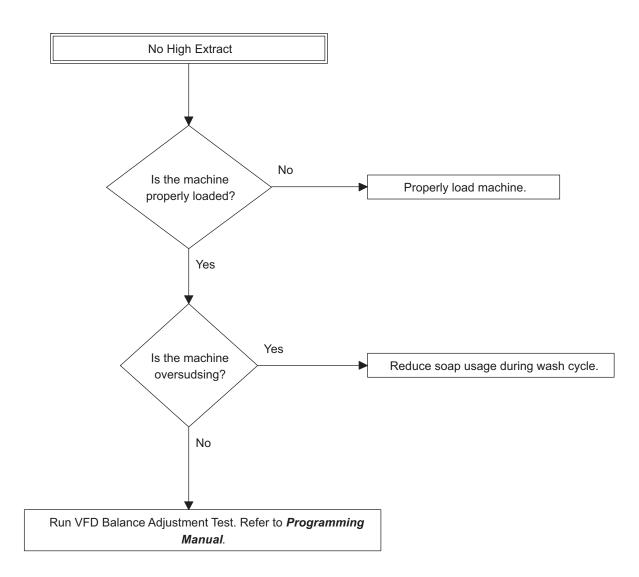




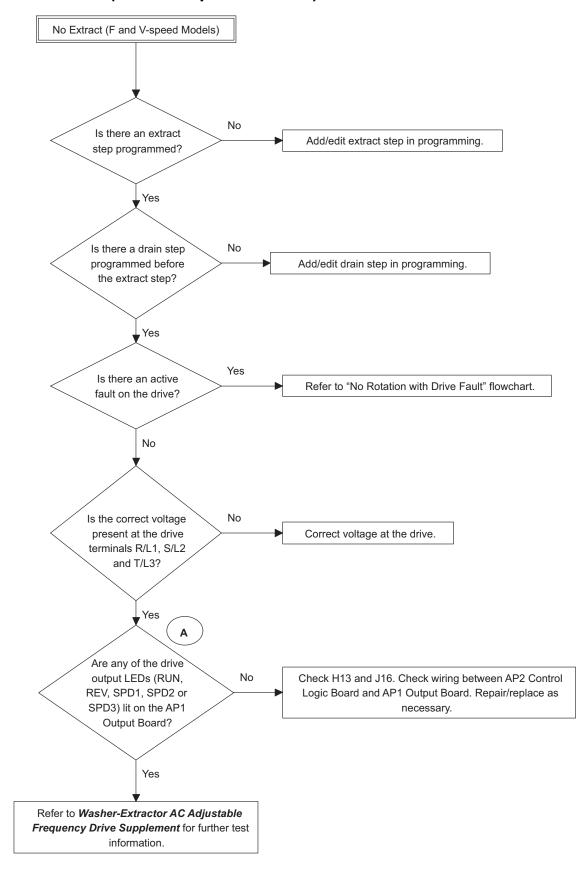
NOTE: Refer to the wiring diagram supplied with your machine.

F8266301

12. No High Extract



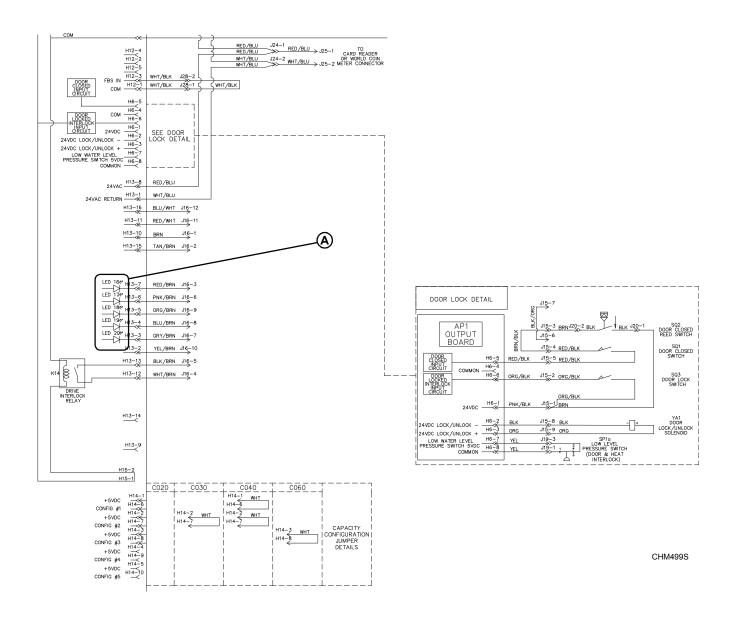
CHM474S



13. No Extract (F and V-speed Models)

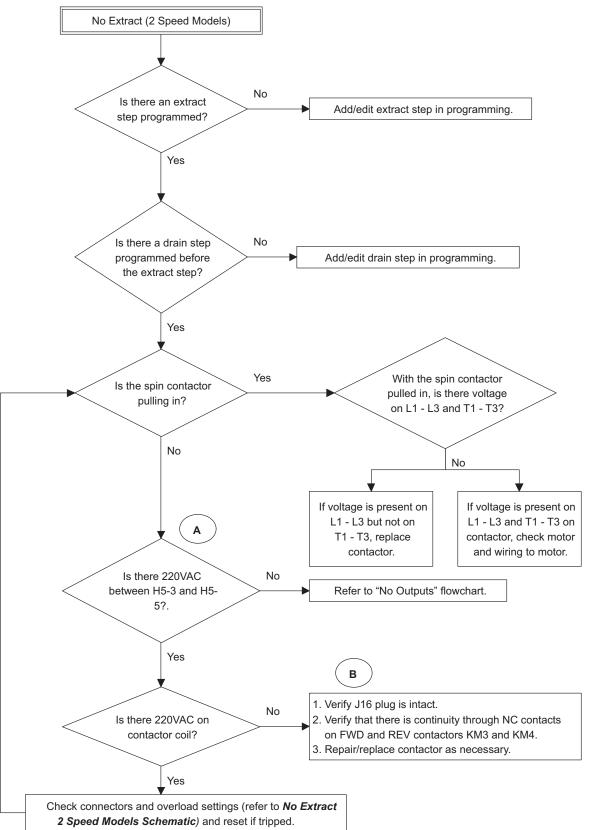
CHM467S

No Extract (F and V-speed Models)



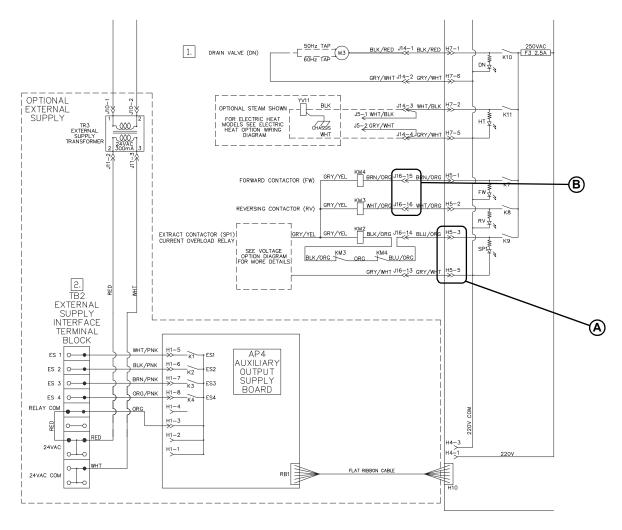
NOTE: Refer to the wiring diagram supplied with your machine.

14. No Extract (2 Speed Models)



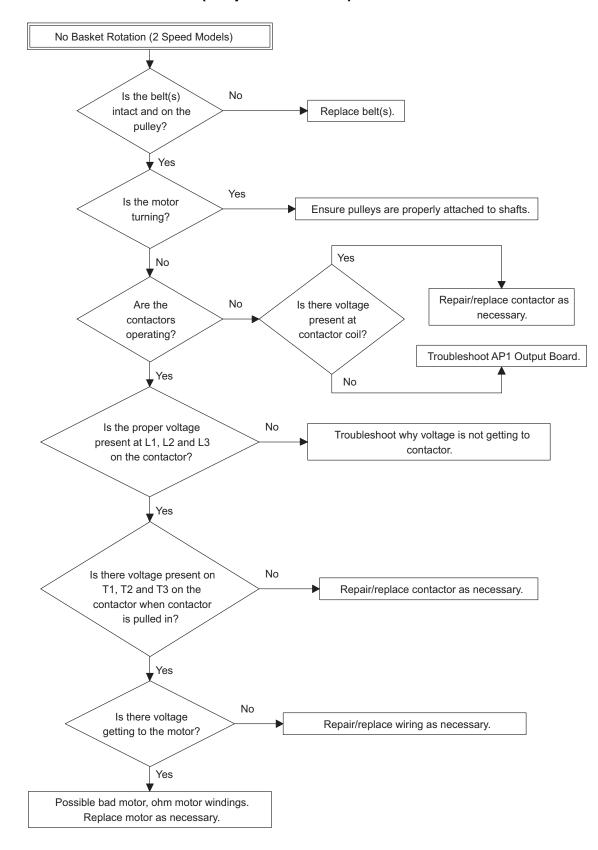
CHM469S

No Extract (2 Speed Models)



CHM498S

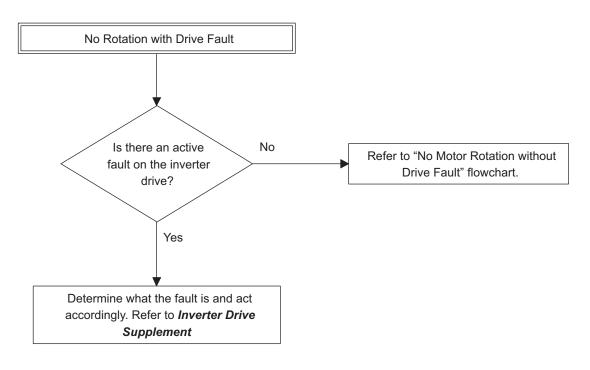
NOTE: Refer to the wiring diagram supplied with your machine.



15. No Basket Rotation (2 Speed Models)

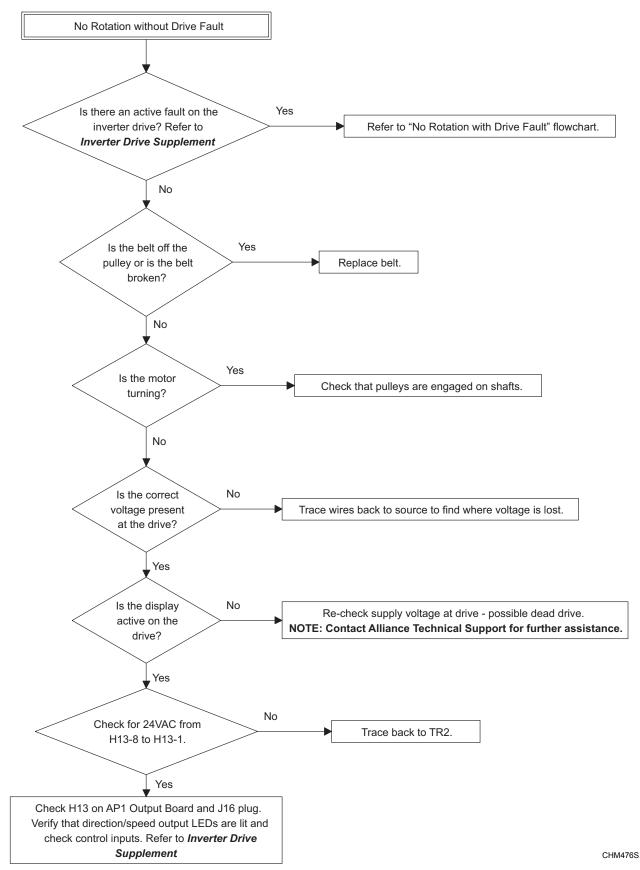
CHM478S

16. No Rotation with Drive Fault

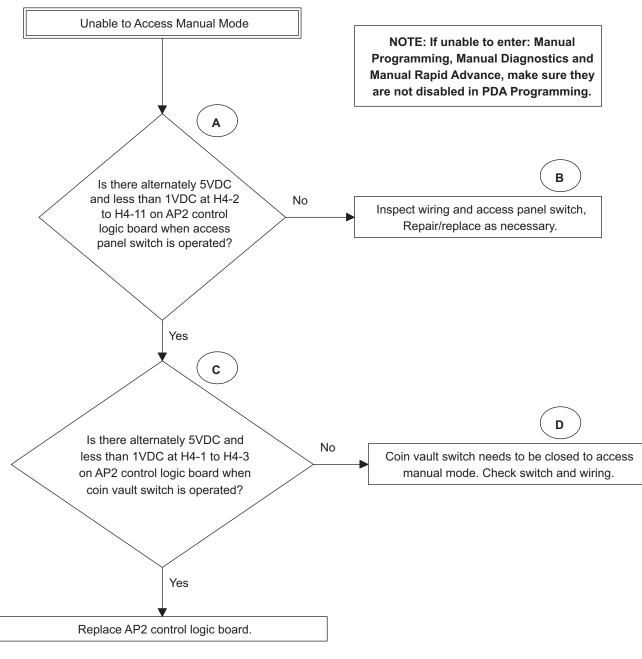


CHM475S



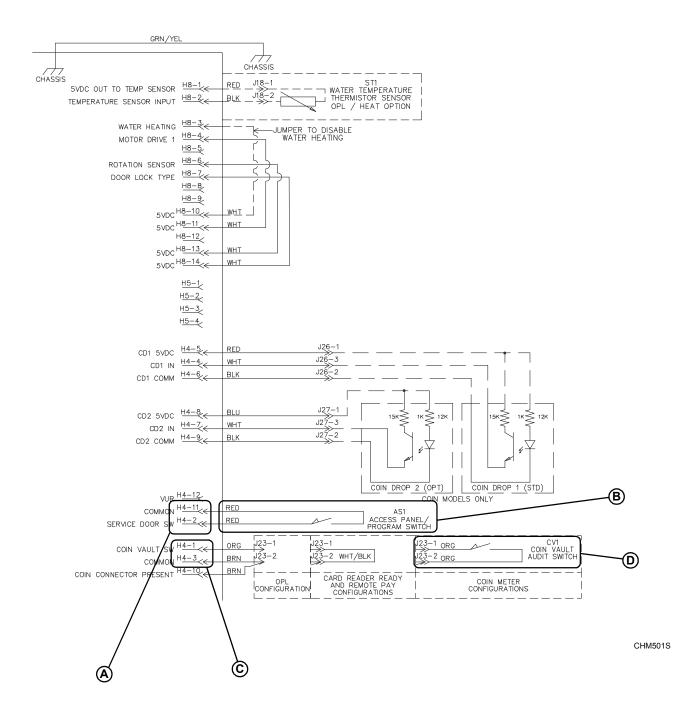


18. Unable to Access Manual Mode



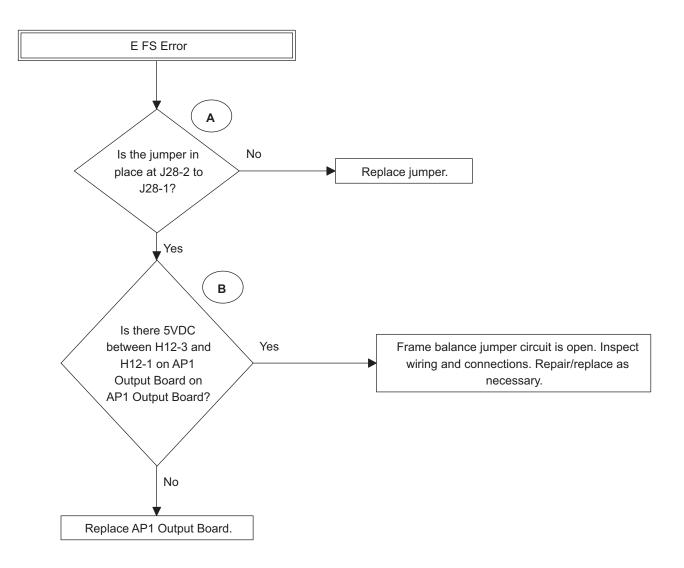
CHM466S

Unable to Access Manual Mode



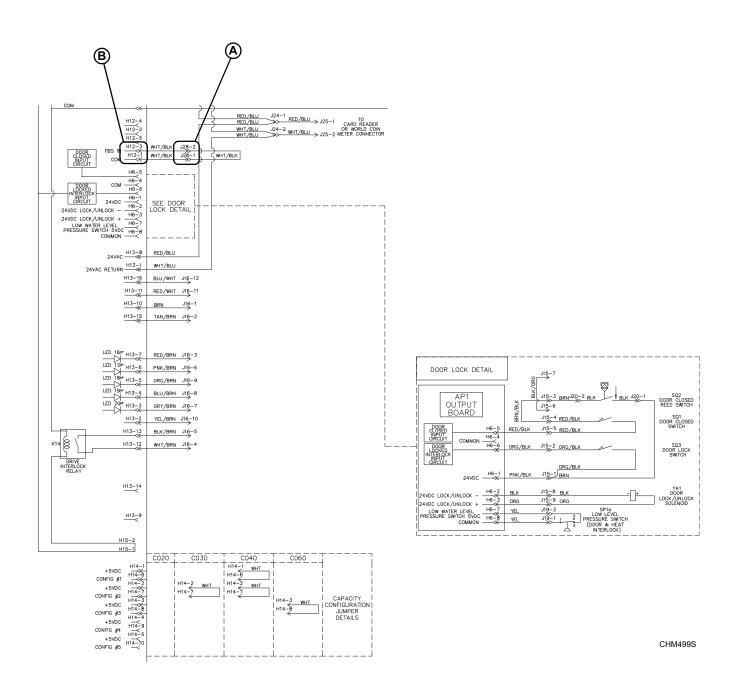
NOTE: Refer to the wiring diagram supplied with your machine.

19. EFS Error

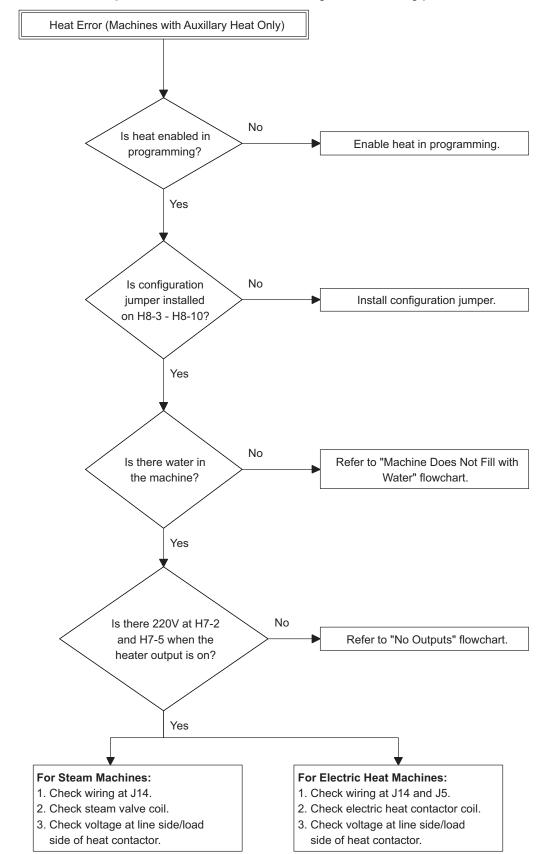


CHM463S

EFS Error

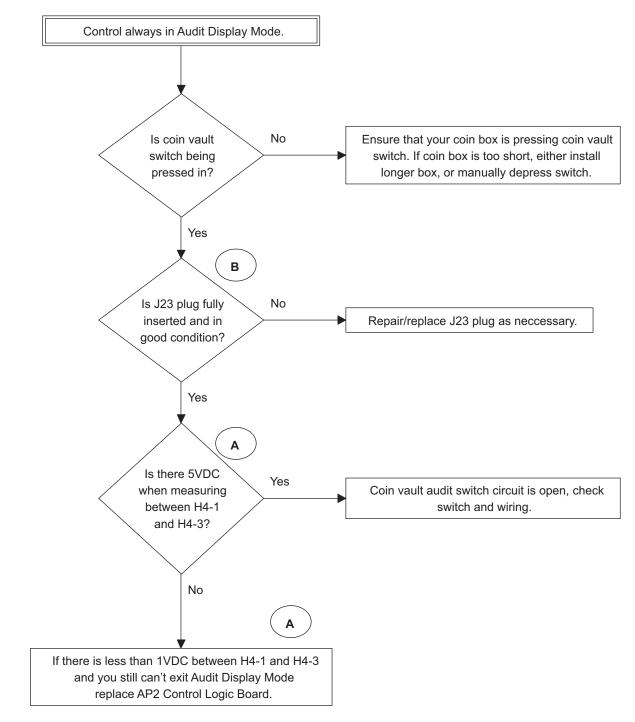


NOTE: Refer to the wiring diagram supplied with your machine.



20. Heat Error (Machines with Auxiliary Heat Only)

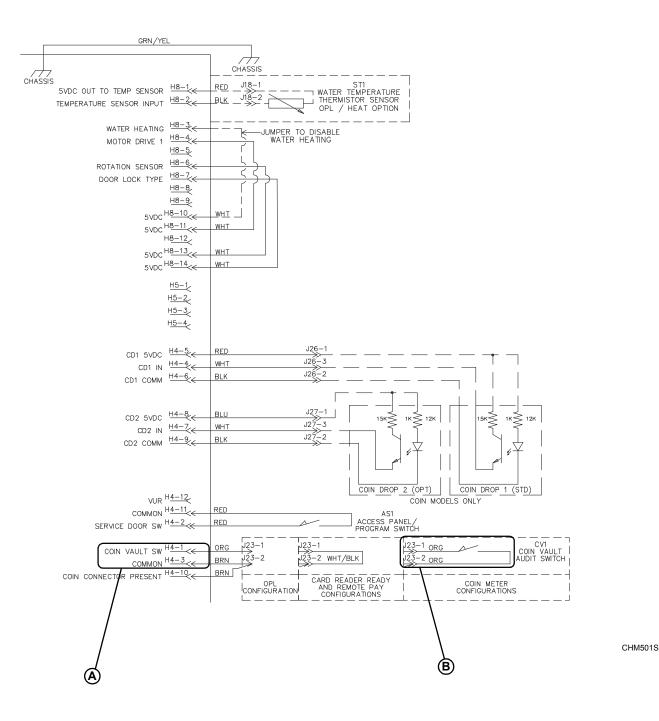
CHM477S



21. Control Always in Audit Display Mode

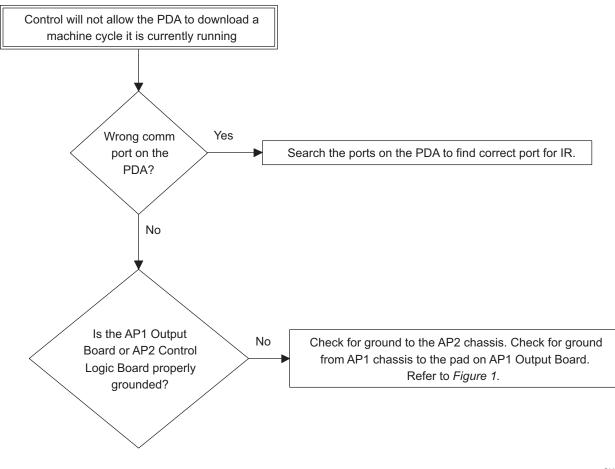
CHM460S

Control Always in Audit Display Mode



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

22. Control Will Not Allow PDA to Download a Machine Cycle it is Currently Running



CHM468S

Control Will Not Allow PDA to Download a Machine Cycle it is Currently Running

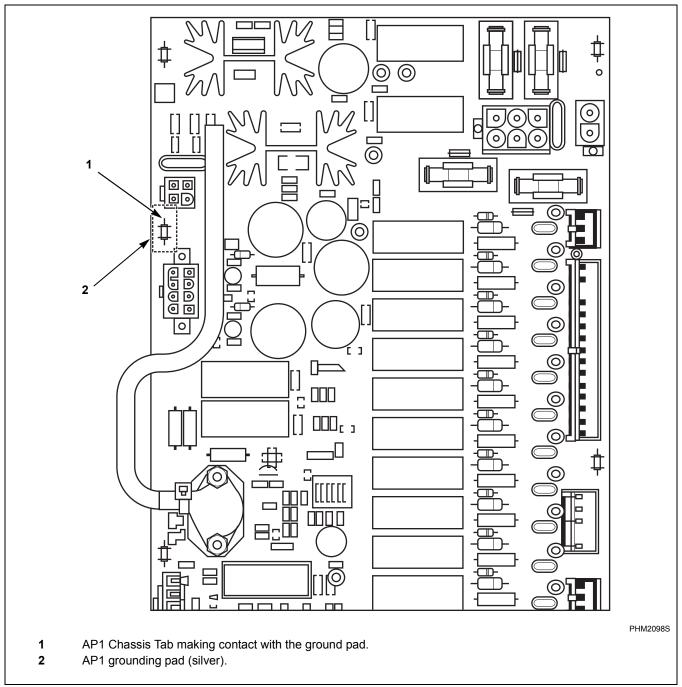


Figure 1