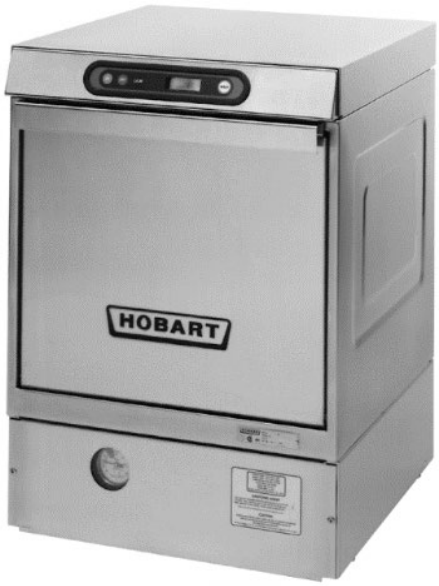
HOBART

SERVICE

LX & LXi Series

CUSTOMER MAINTENANCE MANUAL



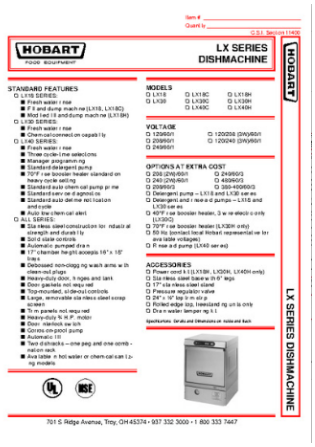
This manual is only intended for use by properly trained and qualified customer in-house maintenance for the limited procedures herein.

This manual is not intended to be all encompassing. You should read the maintenance or repair procedure you wish to perform, in its entirety, to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained Hobart Service technician.

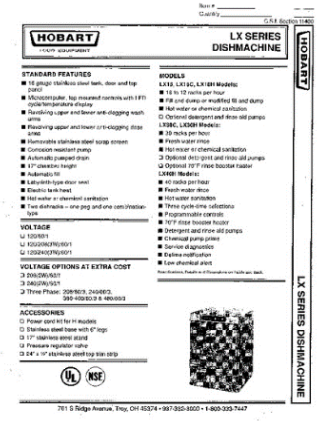
Specification Sheets

Click on image below for most recent edition.

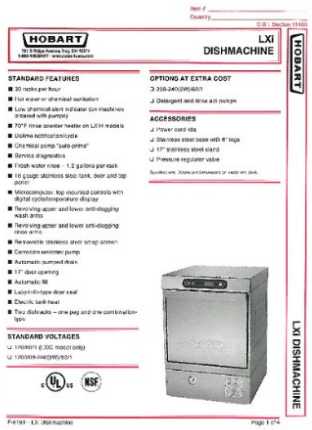
LX Series Dishmachine



LX Series Dishmachine



LXi Dishmachine



LXi Dishmachine

Tools

- Standard set of hand tools

Installation & Operation Manuals

Click on image below for most recent edition.

LX Series Instruction Manual (F18615)

LXi Series Instruction Manual (F34779)

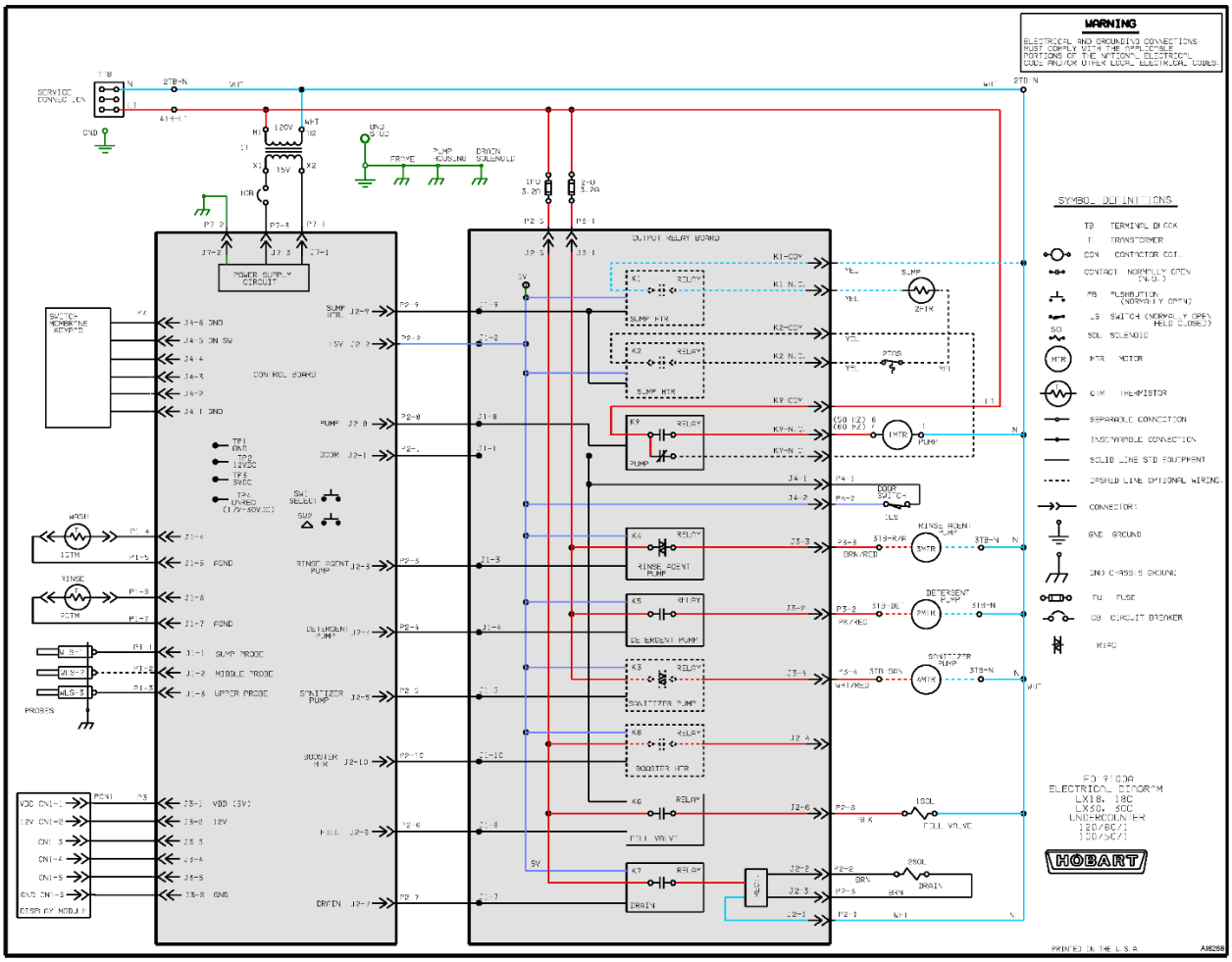
Marketing Materials

Click on image below for most recent edition.

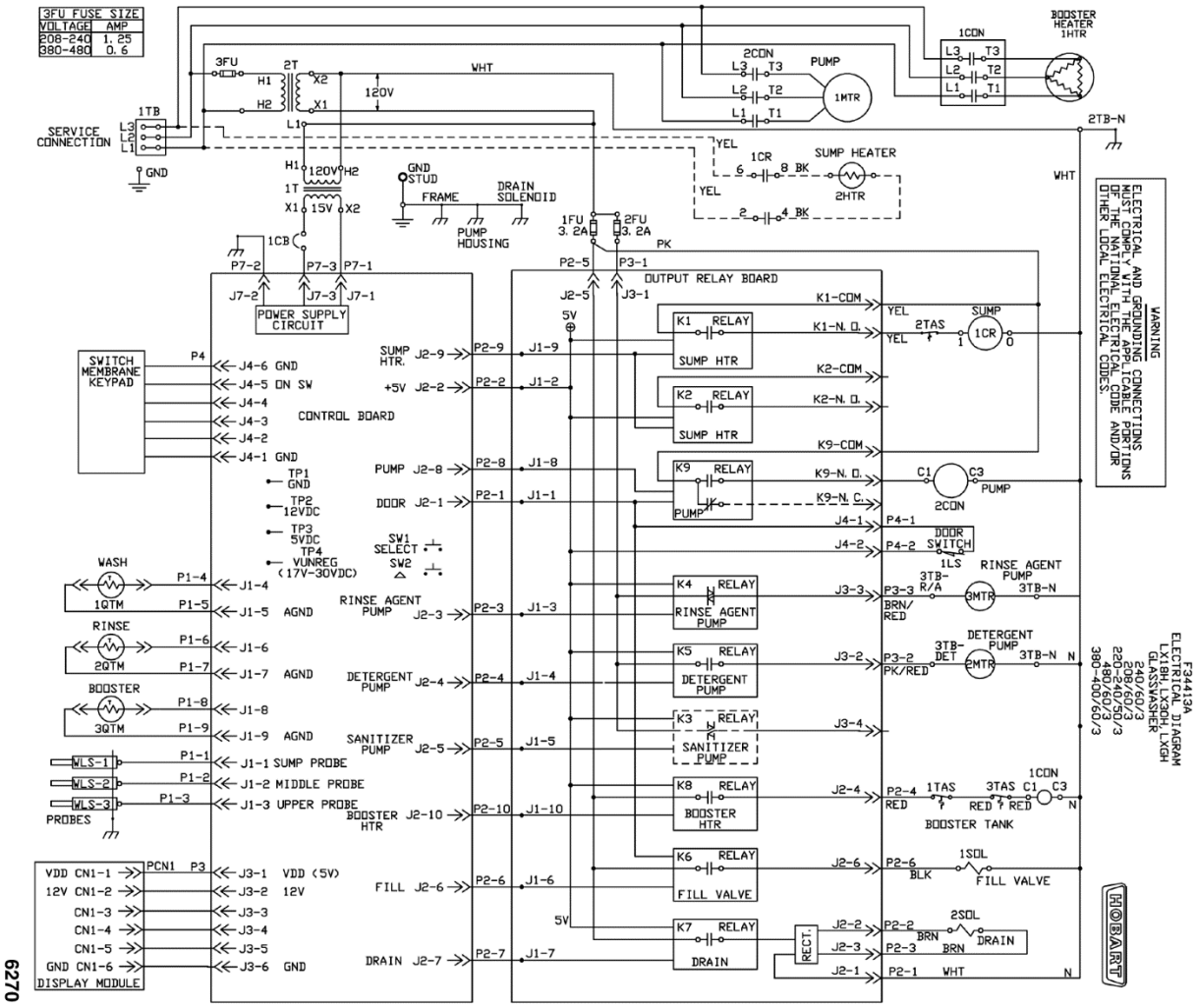
LXi Series Warewasher Operator Training

Schematics

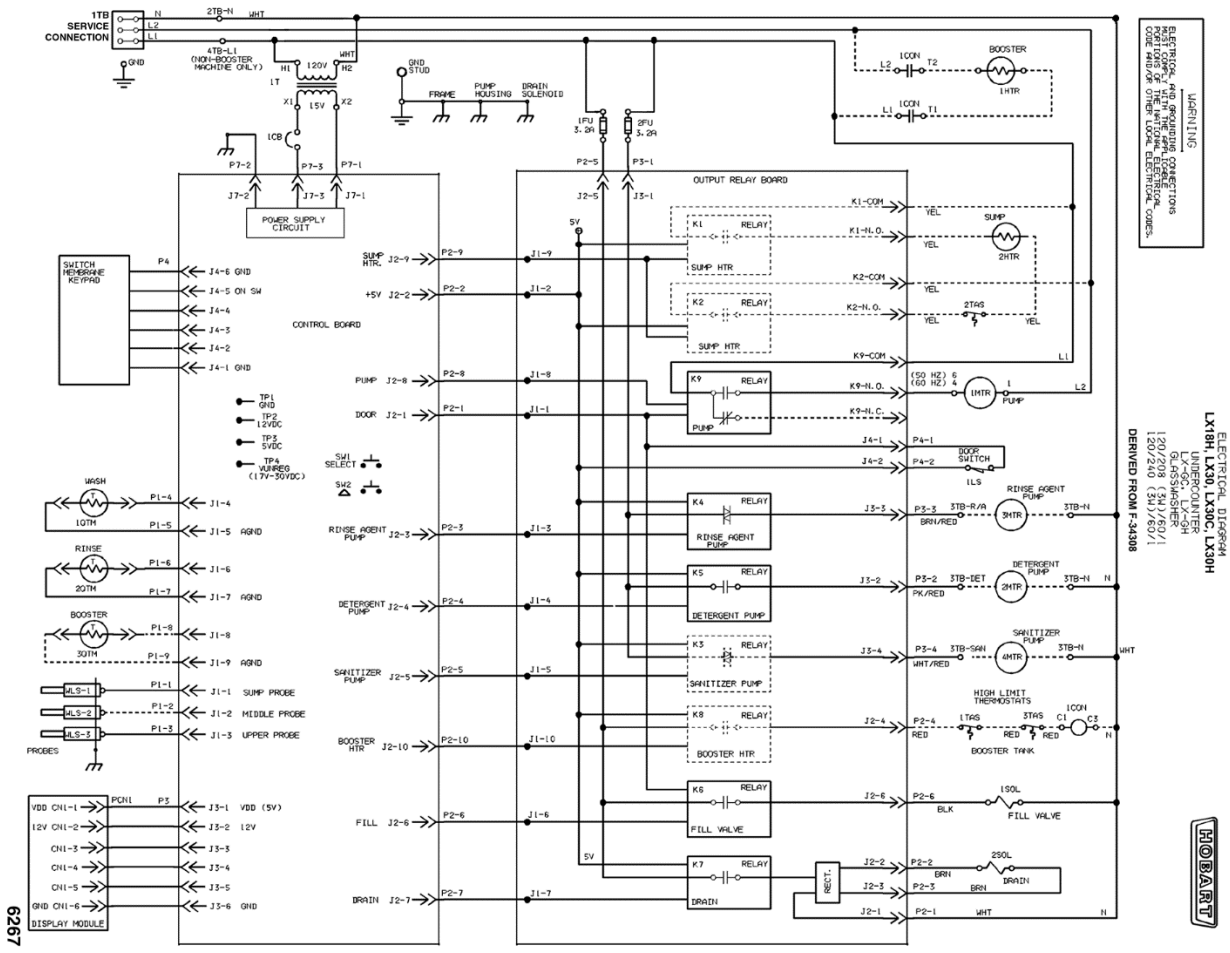
LX18 /18C / LX30 / 30C 100-120V 50-60Hz(1PH)



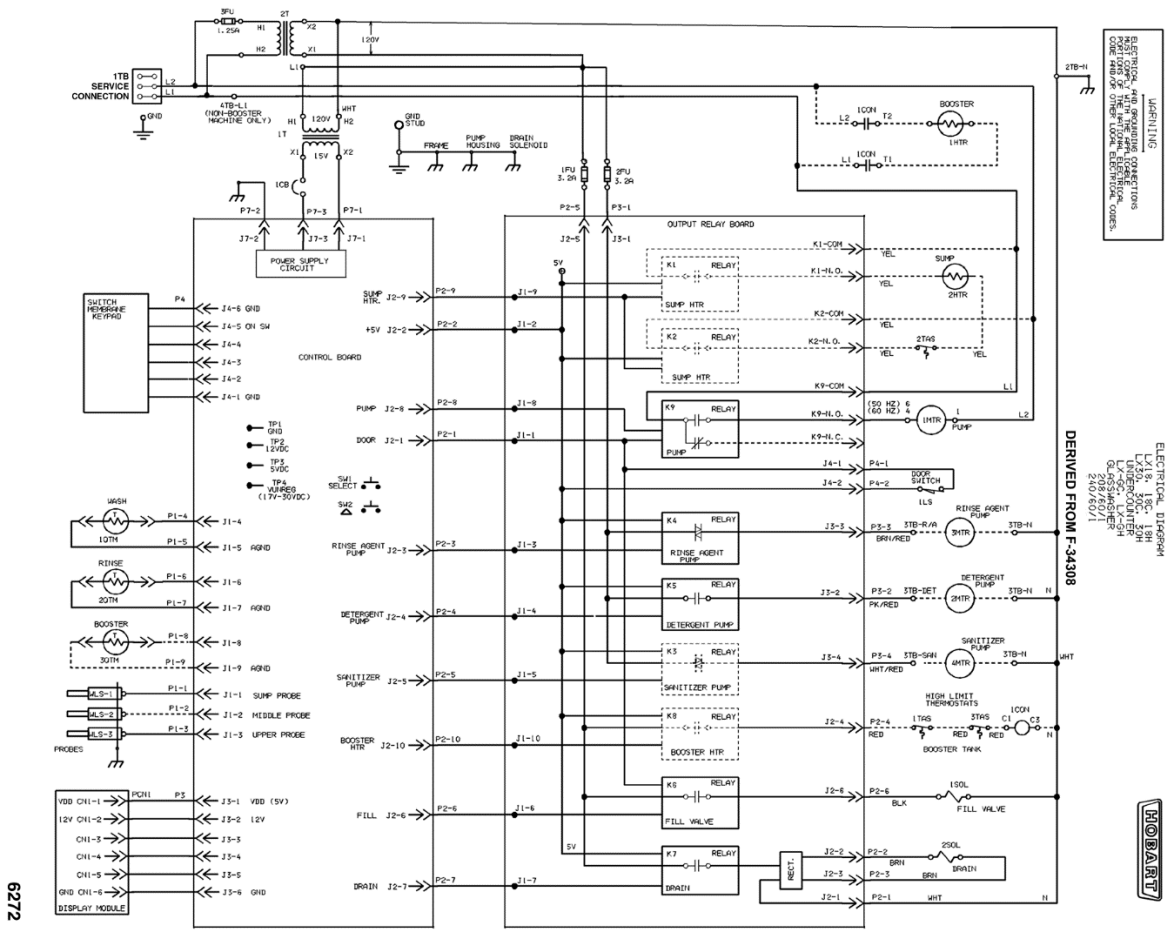
LX18H / LX30H / LHGH 208-480V 50-60Hz (3PH)



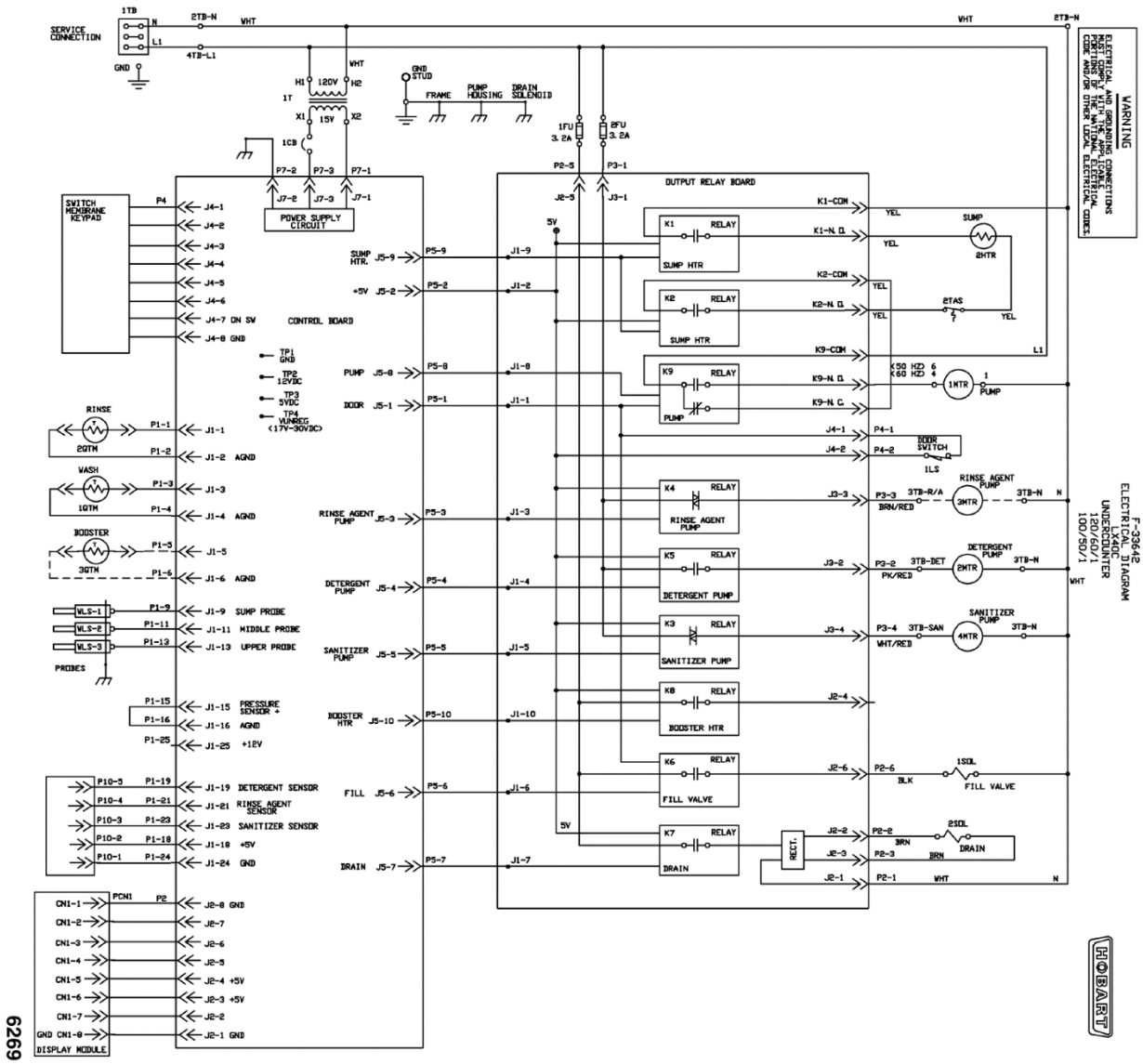
LX18H / LX30 / LX30C /LX30H / LXGC / LXGH 120-240V 60Hz (1PH)



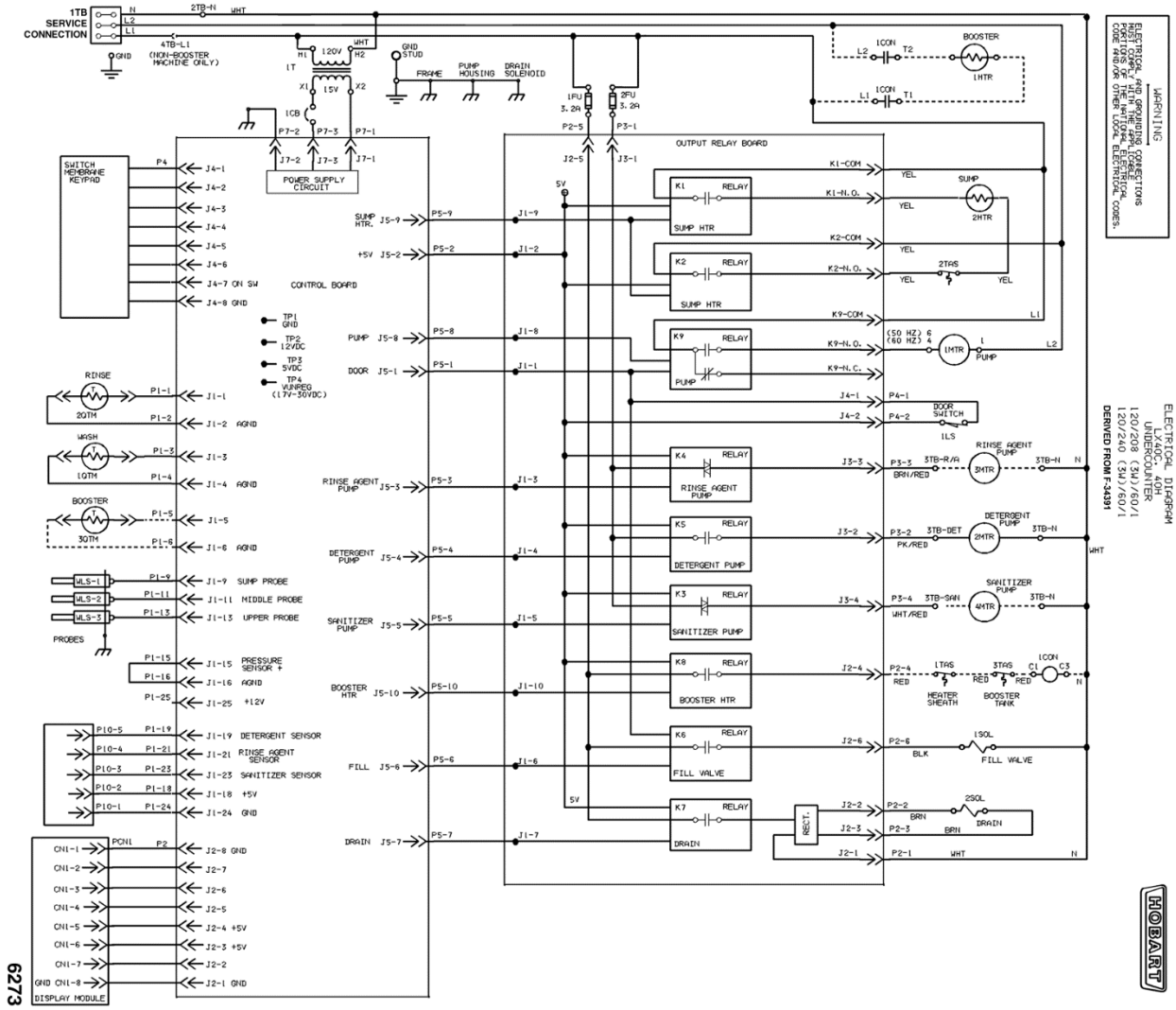
LX18 / LXC & H / LX30 LX30C & H / LXGC LXGH 208-240V 60HZ(1PH)



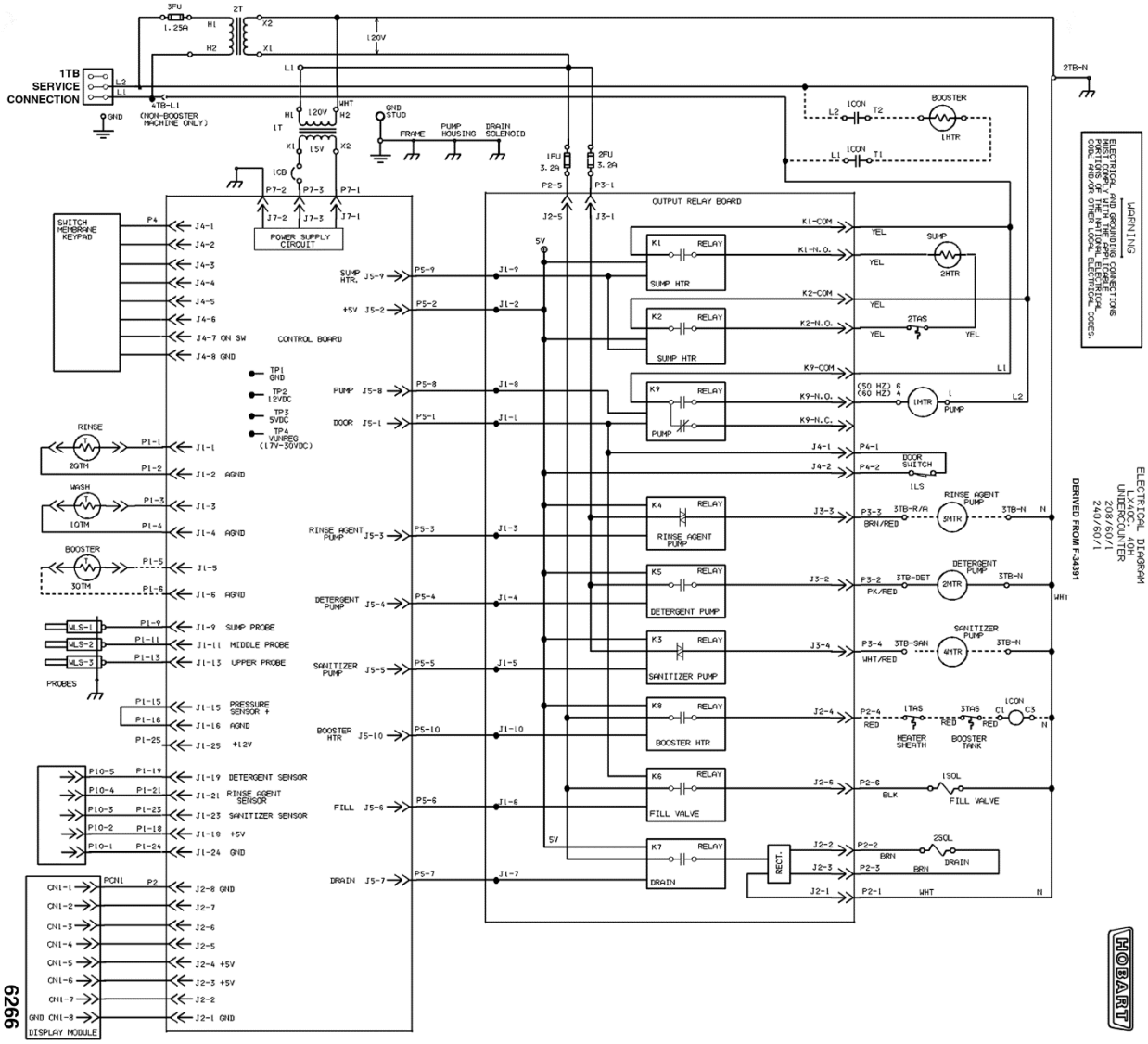
LX40C / 100-120V 50-60Hz (1PH)



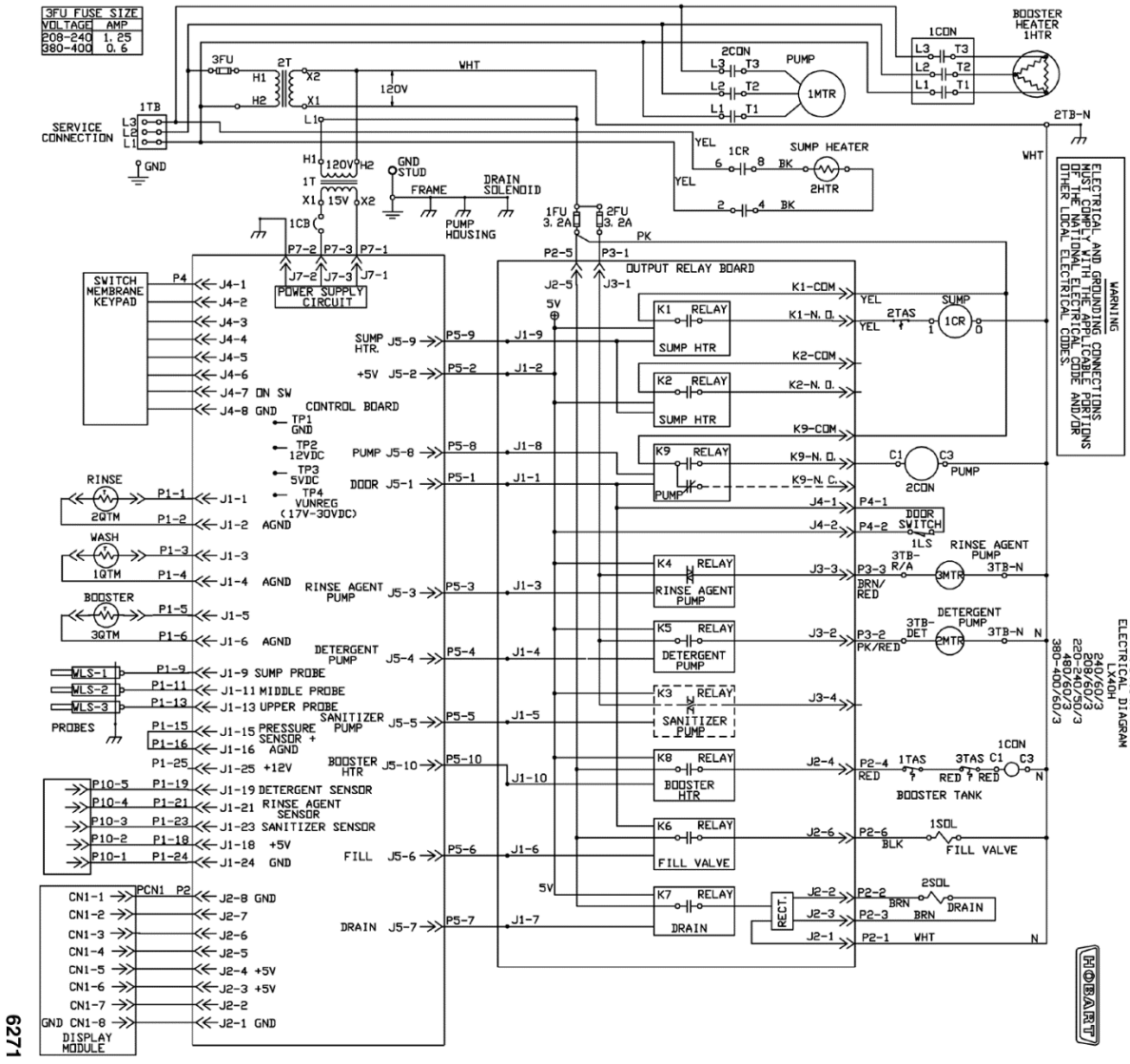
LX40C & H 120-240V (3W) 60Hz (1PH)



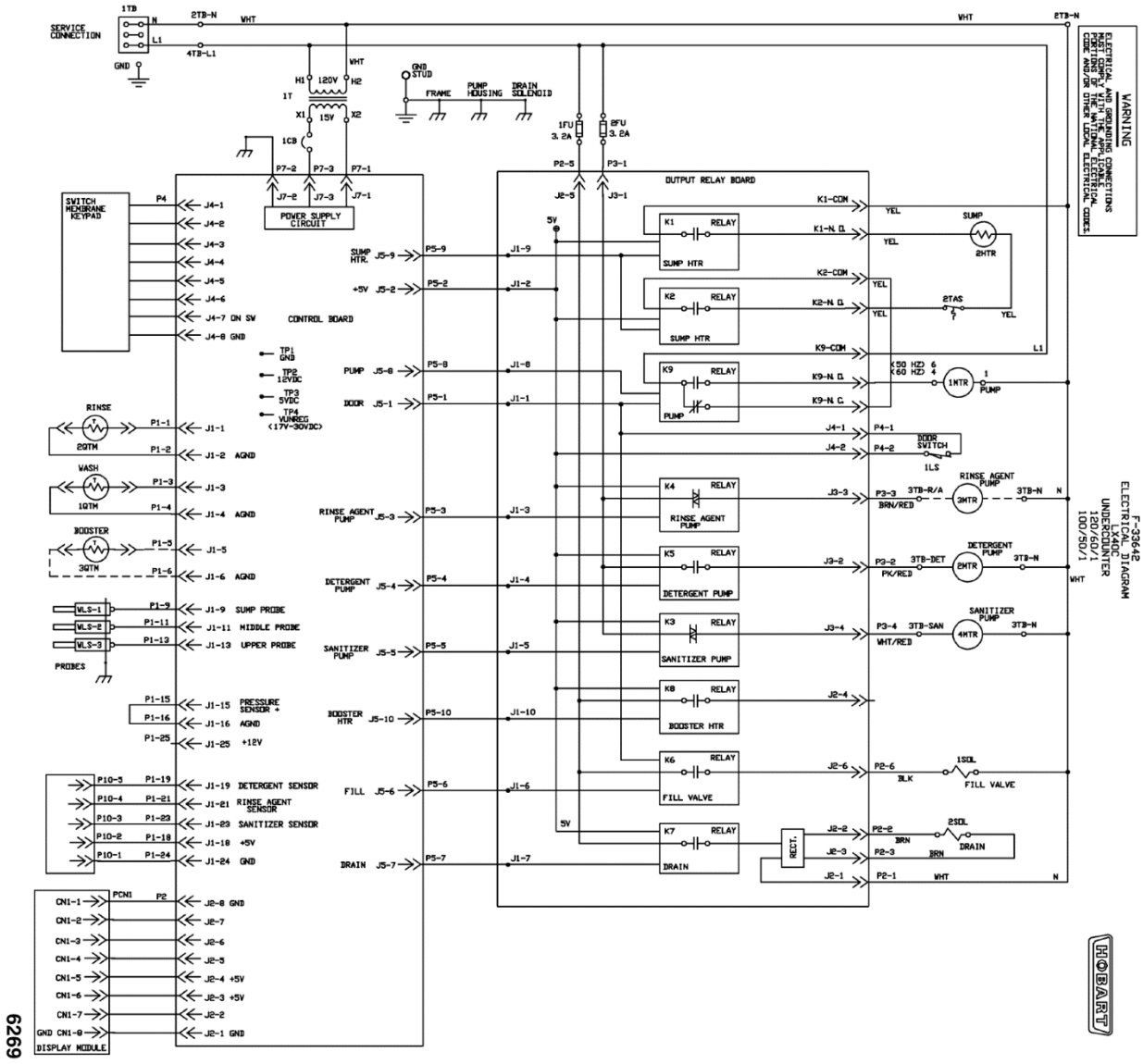
LX40C & H 208-240V (3W) 50-60Hz (1PH)



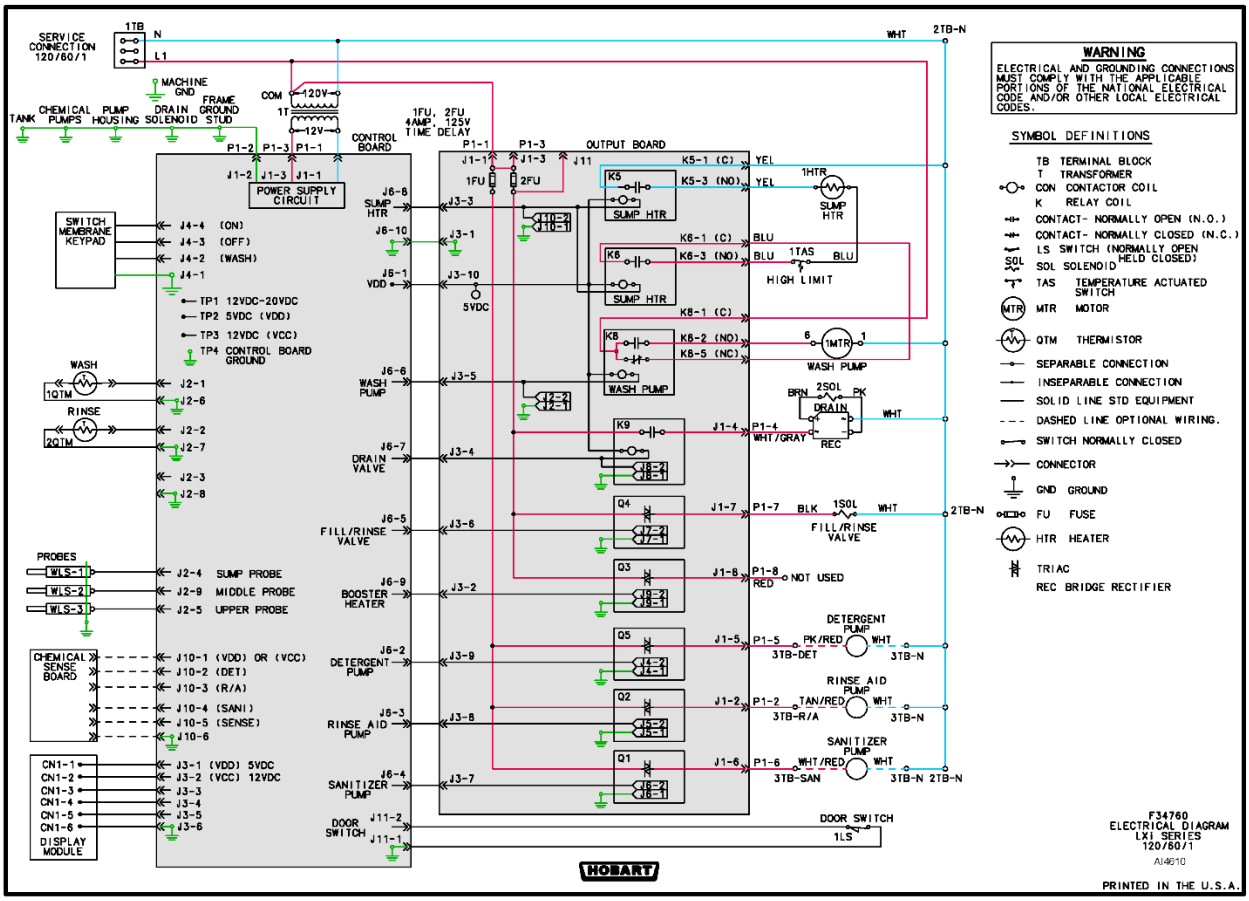
LX40H 208-480V 50-60Hz (3PH)



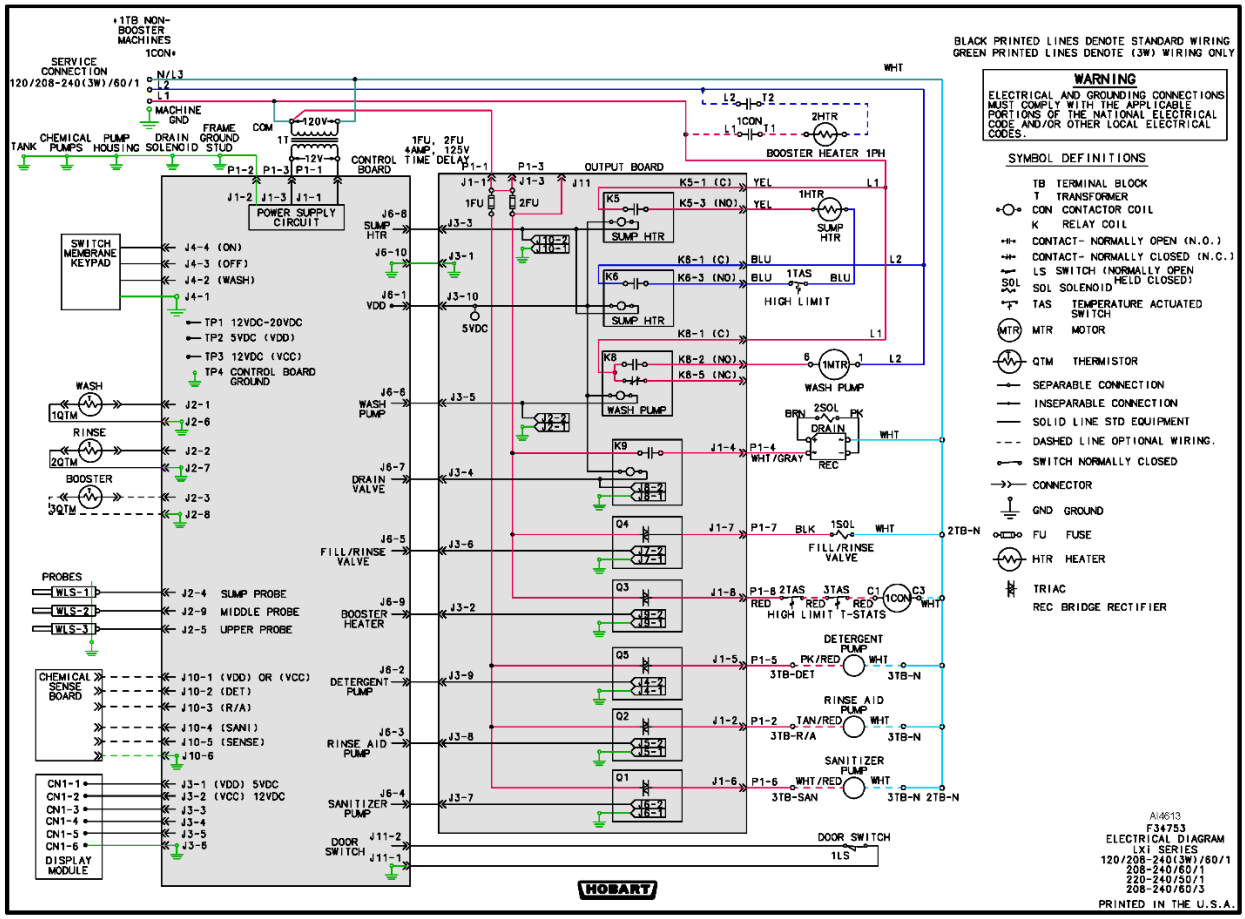
LX GC Wiring Diagram 100-120V 50-60Hz (1PH)



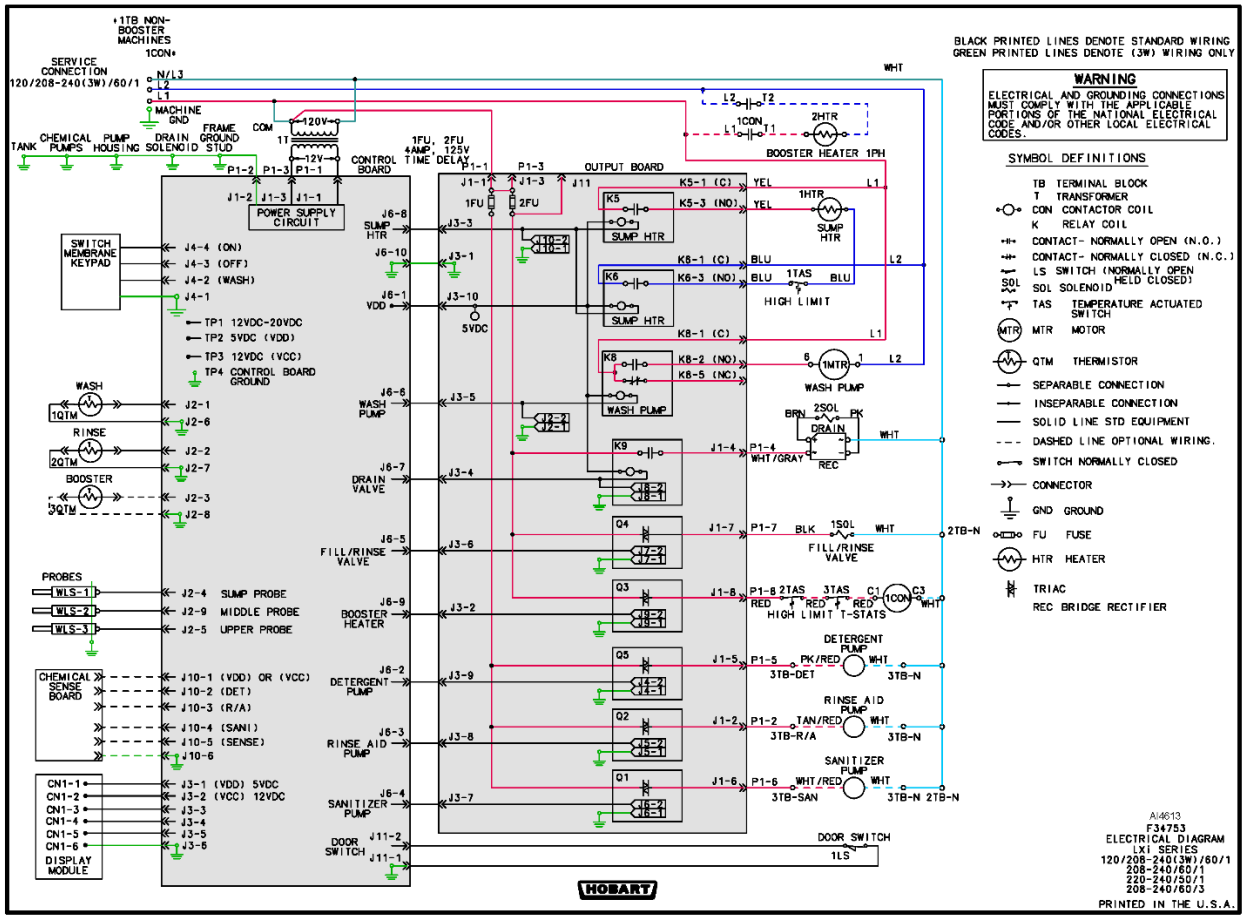
LXi (120V / 60Hz / 1PH)



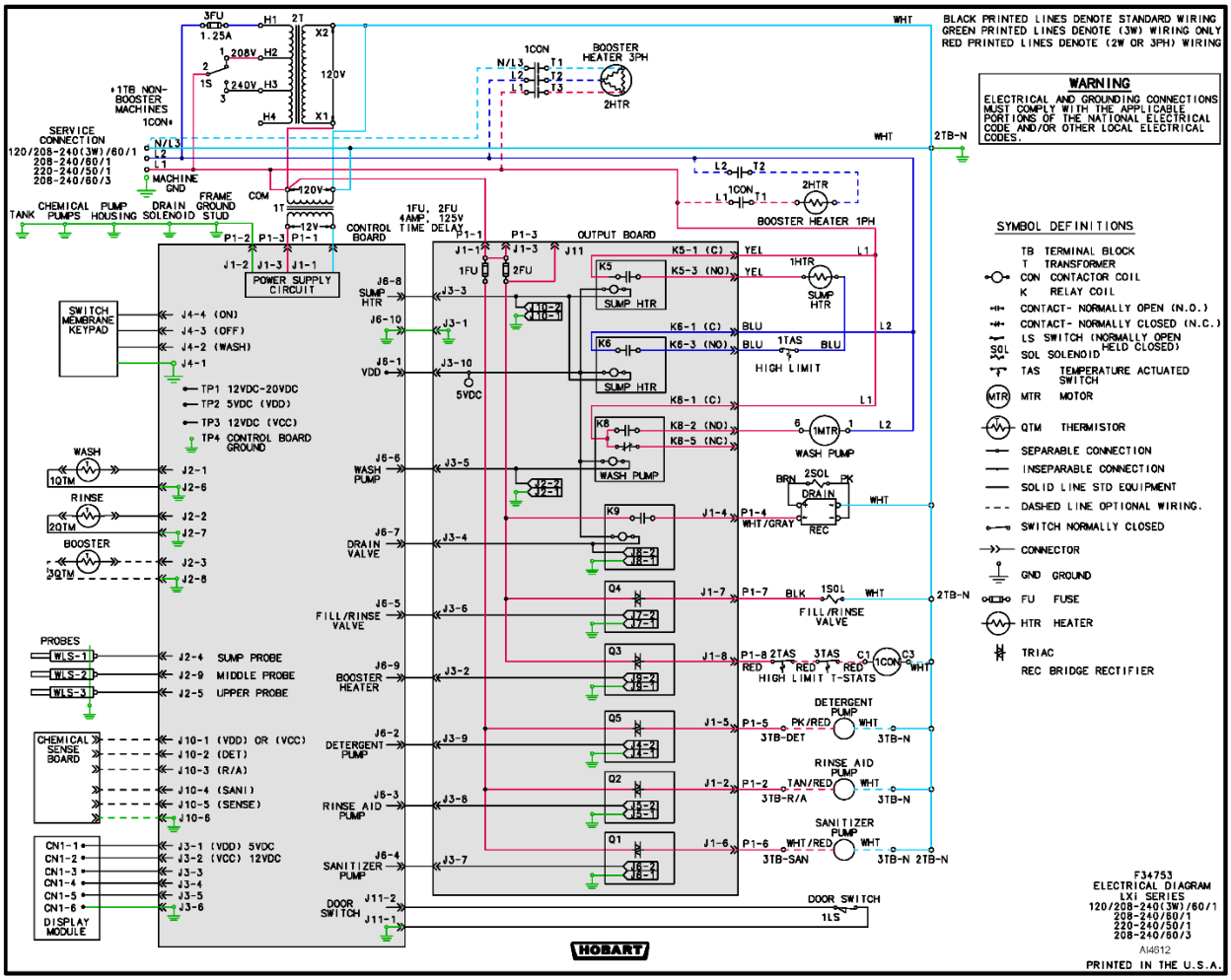
LXi (120-240V (3W) / 60Hz / 1PH)



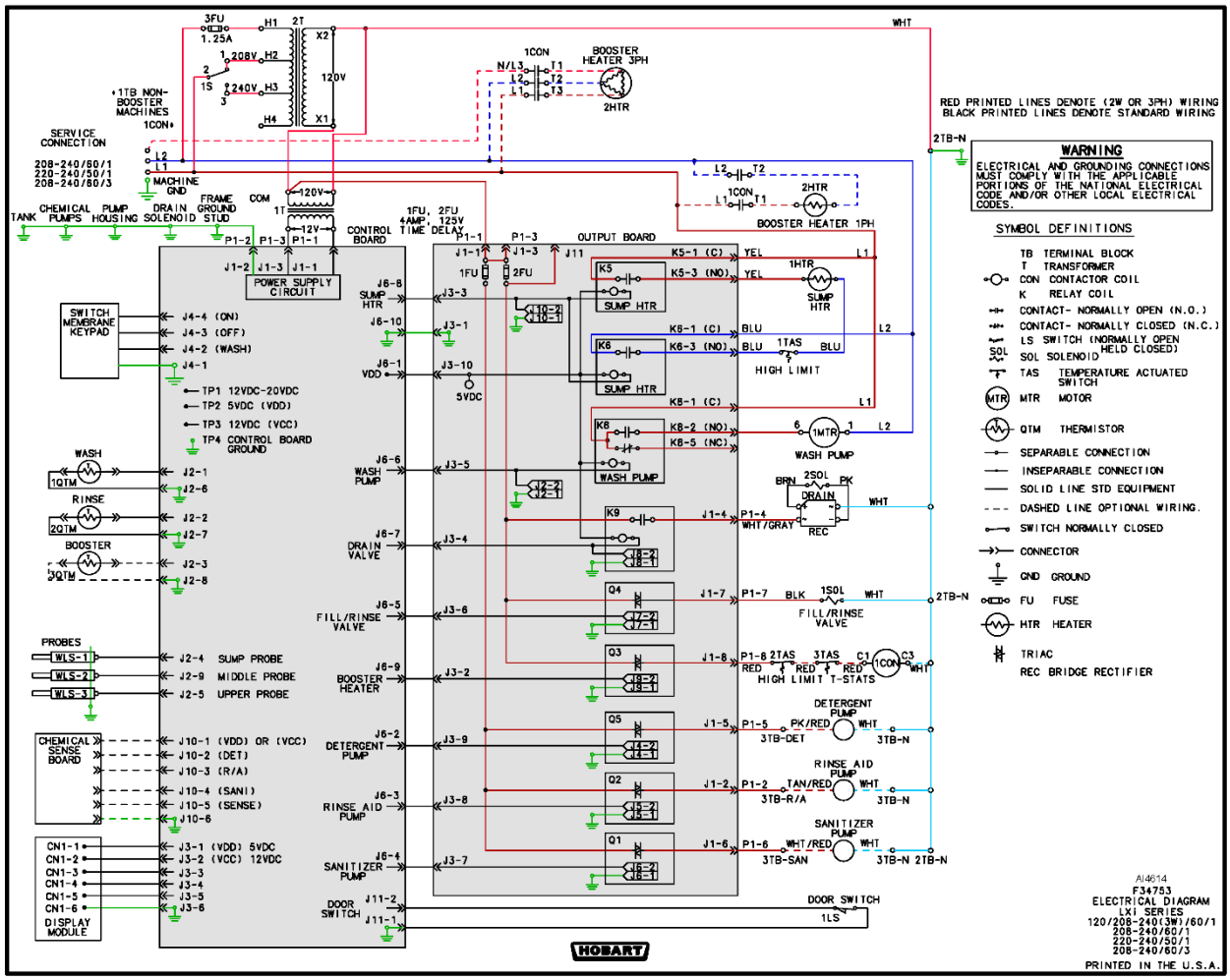
LXi (120-240V (3W) / 60Hz / 1PH)



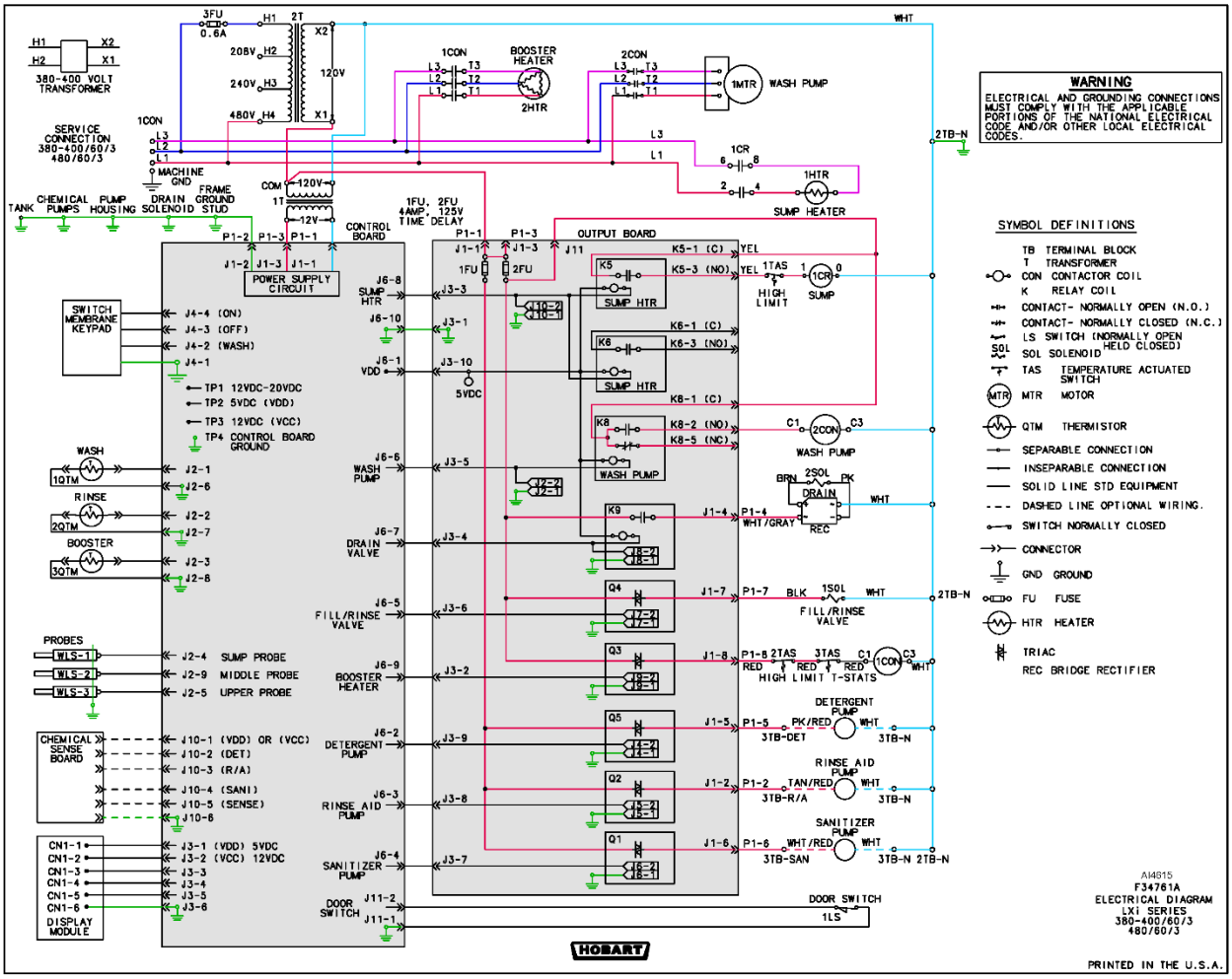
LXi (120-240V / 50 & 60Hz / 1 & 3PH



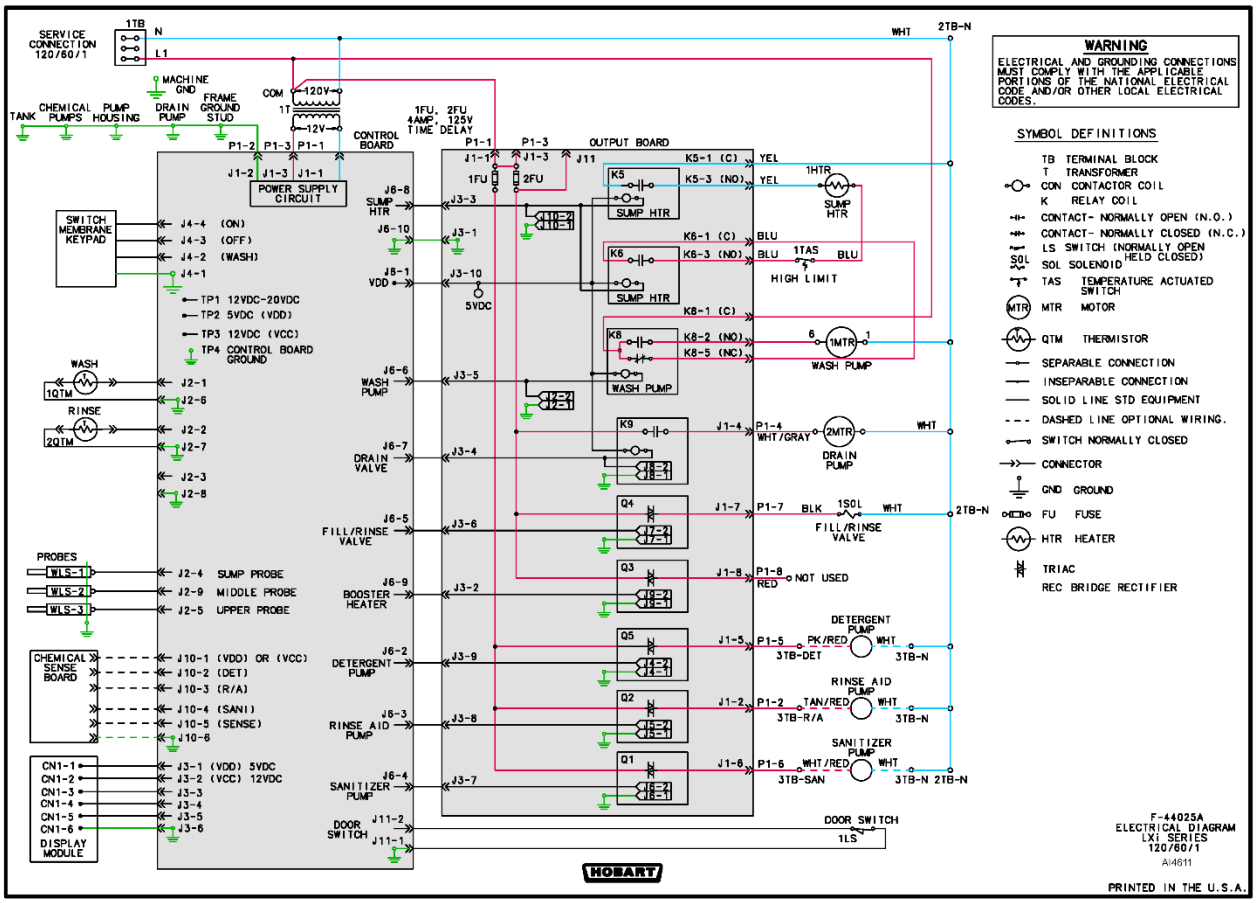
LXi (120-240V / 50 & 60Hz / 1 & 3PH



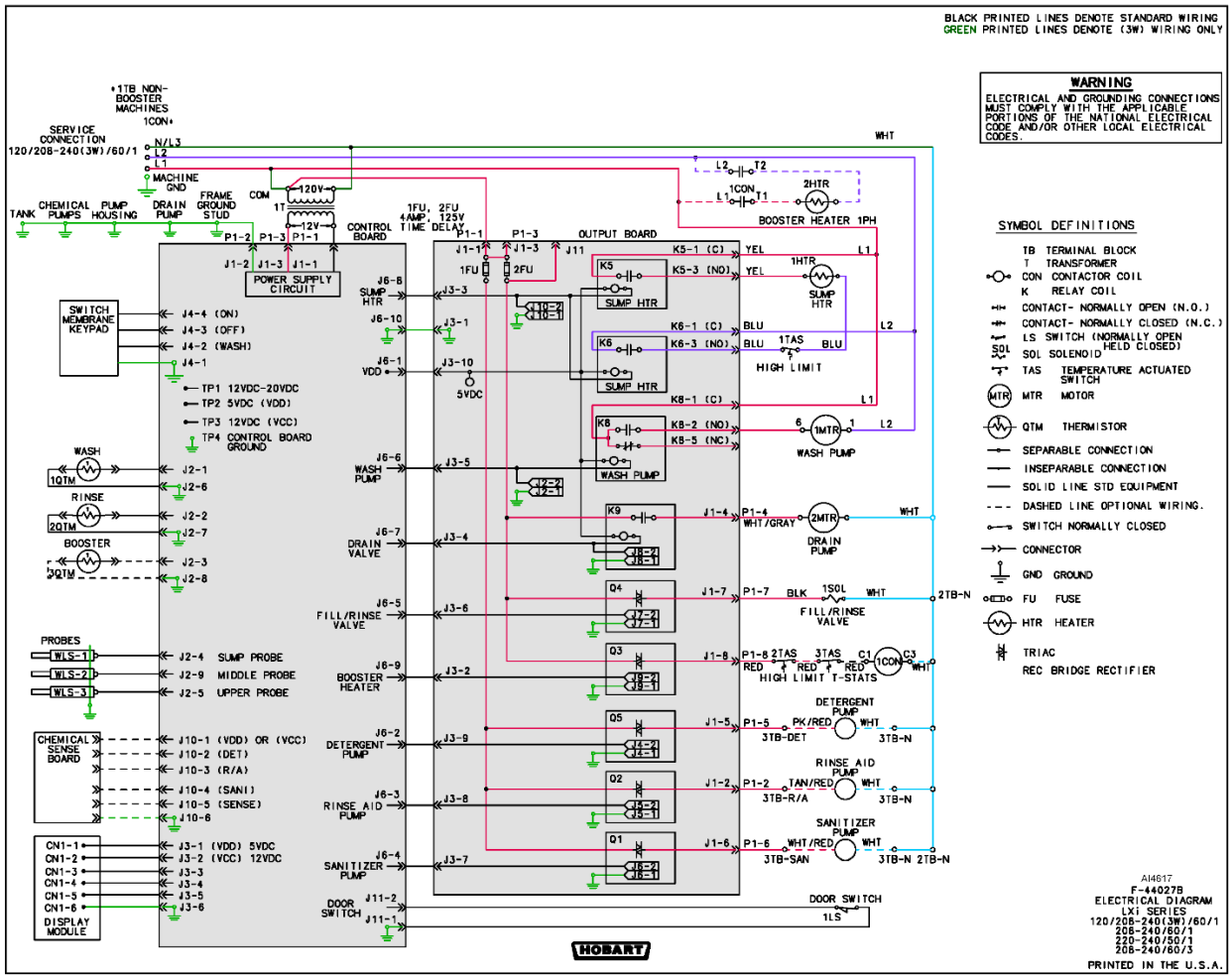
LXi (380-480V / 60Hz / 3PH)



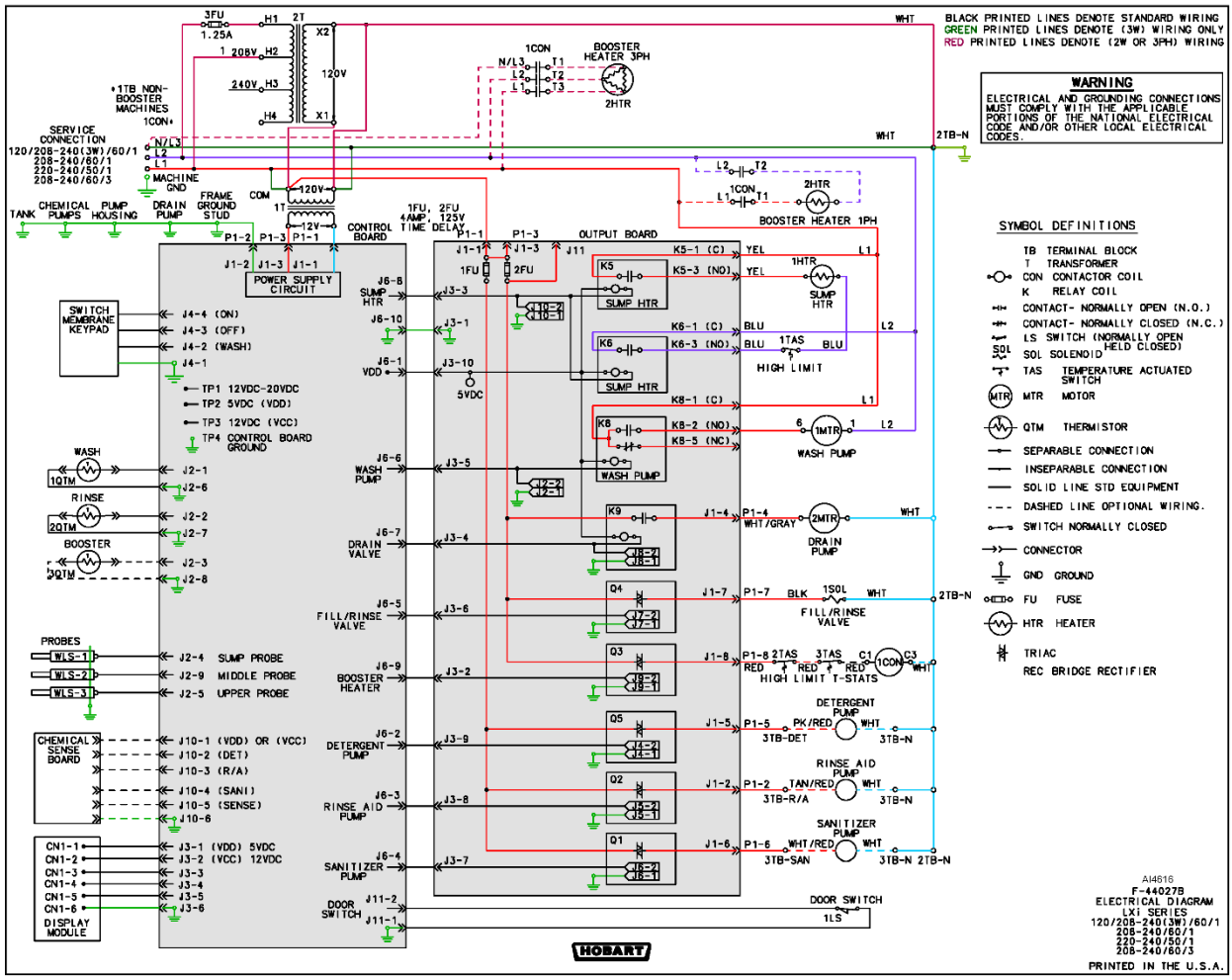
LXi (120V / 60Hz / 1PH)



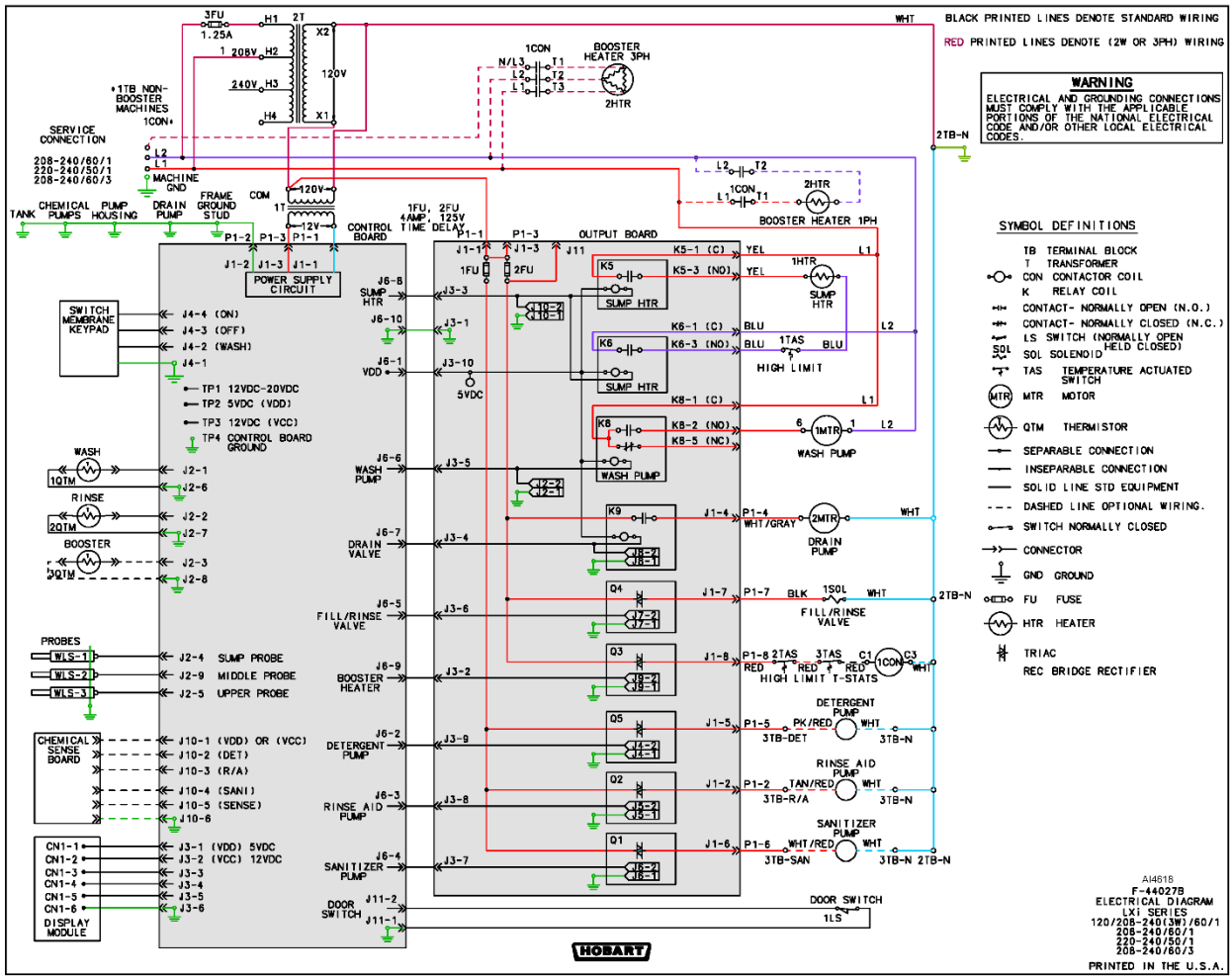
LXi (120-240V / 50 & 60Hz / 1PH)



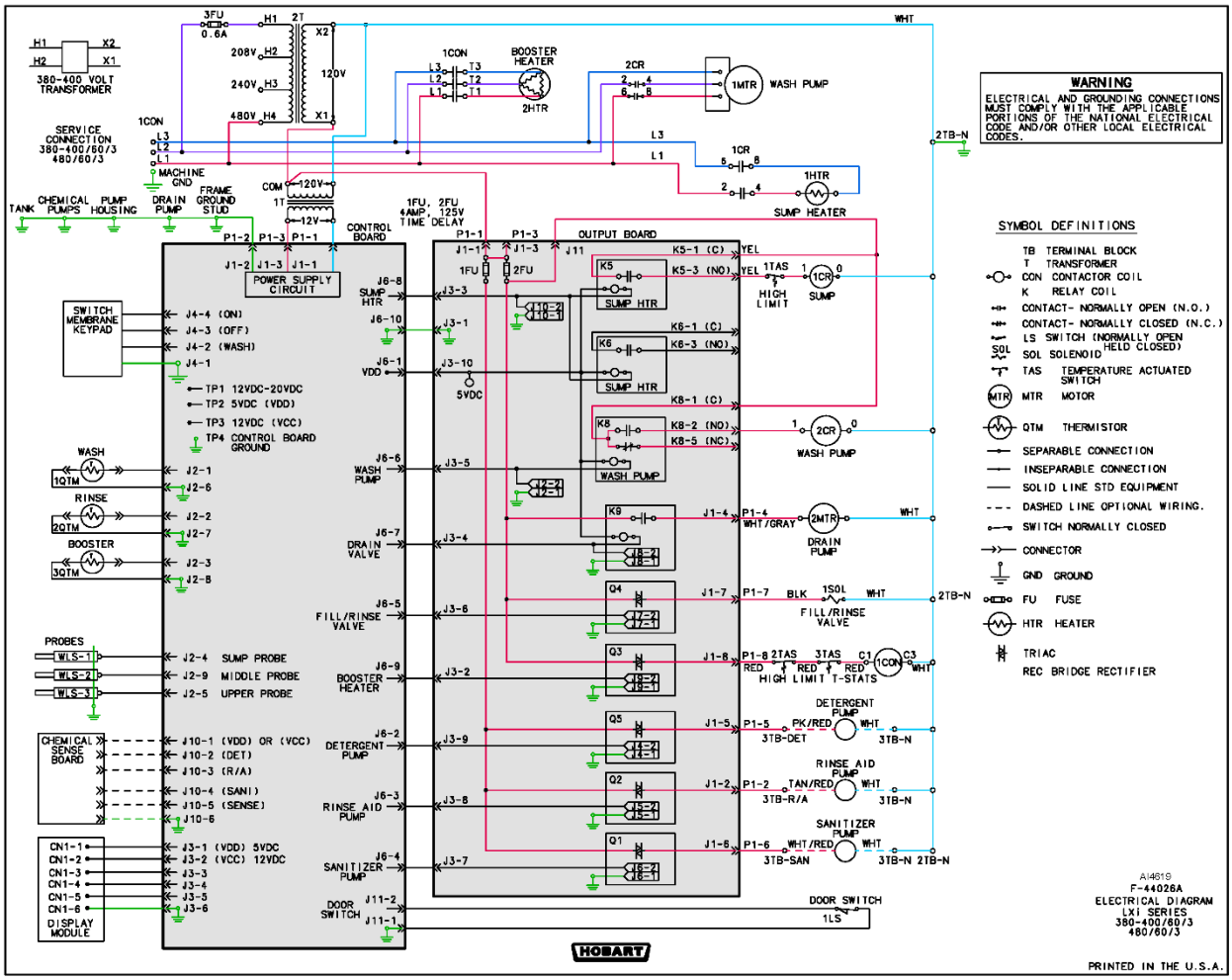
LXi (120-240V / 50 & 60Hz / 1 & 3PH)



LXi (120-240V / 50 & 60Hz / 1 & 3PH)



LXi (380-480V / 60Hz / 3PH)



Troubleshooting (Dishwasher)

Symptom	Possible Causes
Dishes not clean.	1. Strainers clogged causing inadequate water supply to pump – clean according to Instruction Manual. 2. Obstruction in wash arm(s) or wash arms will not turn – clean according to Instruction Manual. 3. Wash and/or rinse arms will not turn. Check they spin freely. 4. Non Advansys wash arms used on Advansys machine. 5. Chemical pumps inoperative. 6. Soil quantity – scrape dishes before cycle. 7. Improper rack loading. See PREPARATION in Instruction Manual. 8. Low water – check water supply. 9. Sump temperature too low – note wash temperature on display during WASH; should be above 120°F for chemical sanitizing machines and above 150°F for high temperature machines.
Spotting of silverware, glasses, or dishes.	1. Improperly loaded racks. 2. Water temperature too low. 3. Improper type or concentration of detergent – contact your chemical representative. 4. Hard water – install a water softener; use a rinse agent. 5. Insufficient fill – check water supply. 6. Rinse aid pump inoperable – check wash and rinse arms spinning properly.
Food soils remain in dishwasher.	1. Dishwasher not being cleaned thoroughly daily. See CLEANING in Instruction Manual. 2. Strainer plugged. 3. Prescrapping procedures not being followed.
Unexpected results on dishes.	1. Etching usually caused by any combination of high temperatures, soft water, soft glass, or high alkaline washing solutions. 2. Tarnishing – avoid washing silver, silver plates, and pewter in chemical sanitizing machines. 3. Pitting – stainless steel may pit with lengthy contact of foods containing salt, fruit juices, vinegar, etc. Wash immediately. 4. Black or gray marks – may have been rubbed with aluminum. 5. Brown stains may be due to high iron content in water supply. 6. Chipping – improper loading or ware is too delicate. 7. Fading of china patterns usually due to high water temperature and strong detergent. Check that china is dishwasher compatible. 8. Wooden ware damage – avoid washing in dishwasher. 9. Rust on cast iron – seasoning is lost in dishwasher. Avoid washing in dishwasher. 10. Plastic ware distortion – high temperatures. Check plastic ware instructions.

Troubleshooting (Machine)

Symptom	Possible Causes
No machine operation (no display).	1. Machine OFF. 2. Open fuse or circuit breaker off at power supply. 3. Cord not plugged in (corded models only). 4. L1 fuse F1 open. (120/60/1 and 120/208-240/60 3-Wire) 5. L1 fuse F4 open. (208-240/60/1 and 208-240/60/3.) 6. 1T malfunction. 7. 2T malfunction. (208-240/60/1 and 208-240/60/3.) 8. Power Supply Board malfunction. 9. Power Supply Board fuse F1 open. 10. Control Board malfunction. 11. Keypad malfunction. 12. Loose connections on control and power supply board harnesses.
No machine operation (with display).	1. Error message displayed. Correct error. 2. Keypad inoperative. 3. Control Board malfunction. 4. Loose connections on control and power supply board harnesses.
Low temperature readings.	1. Low water supply temperature. 2. Rapid cycle use. 3. Heavy ware load cools wash water. 4. Incorrect line voltage. 5. Booster heater or sump heater set low. 6. Temperature probes open or shorted. 7. High limits open. 8. Heater malfunction. 9. 1CR malfunction. 10. 1CON malfunction (hot machines). 11. Lime build up on heater. 12. Control Board malfunction. 13. Loose connections on control / power supply board harnesses.
Booster not heating. (Hot machines)	1. Incorrect line voltage. 2. 2PRS malfunction including pressure sensor tubing and water trap. 3. Booster heater inoperative; displaying booster level sensor error or fill error. 4. Temperature probe 3QTM open or shorted. 5. High limit 4TAS or 3TAS open. 6. 1CON malfunction. 7. Control Board malfunction. 8. Loose connections on control / power supply board harnesses.

Symptom	Possible Causes
Sump not heating.	1. Incorrect line voltage. 2. 1PRS malfunction including pressure sensor tubing and water trap. 3. Sump heater displaying low sump level error. 4. Temperature probe 1QTM open or shorted. 5. High limit 1TAS or 2TAS open. 6. 1CR malfunction. 7. Control Board malfunction. 8. Loose connections on control / power supply board harnesses.
Wash motor won't start.	1. Door open or door switch 1LS malfunction. 2. 1PRS malfunction including pressure sensor tubing and water trap. 3. Wash pump motor 1MTR inoperative. 4. Control board malfunction. 5. Loose wiring on control board wash motor terminals.
Machine will not fill sump or will not fill high enough.	1. Rinse pump motor. 2. Rinse Relay K7 malfunction. 3. Switch Power Relay K11 malfunction. 4. Rinse Motor/Pump 2MTR inoperative. 5. 1PRS malfunction including pressure sensor tubing and water trap. Verify no water in tube and all connections tight. 6. Control Board malfunction. 7. Booster/Holding Tank Water Level Sensor 2PRS inoperative including pressure sensor tubing and water trap. Verify no water in tube and all connections tight. 8. Door Switch 1LS inoperative. 9. 1PRS and 2PRS are wired backwards. 10. Clogged strainers in sump and sump pressure switch air trap. Verify no water in tube and all connections tight, and no debris in sump air trap.
Machine fills too high.	1. Sump Water Level Sensor 1PRS malfunction including pressure sensor tubing and water trap. 2. Booster/Holding Tank Water Level Sensor 2PRS malfunction including hose and water trap. 3. Fill valve 1SOL malfunction. 4. Drain Pump – Hanning malfunction. 5. Drain hose clogged or kinked. 6. Control Board malfunction. 7. Improper discharge draining of water on power down due to problems with drain water tempering (if applicable). Disconnect DWT and retest cycle.
Machine won't stop when door is opened.	1. Door switch 1LS inoperative. 2. Control board malfunction. 3. Incoming power HOT wires connected to neutral at contactor (if applicable).

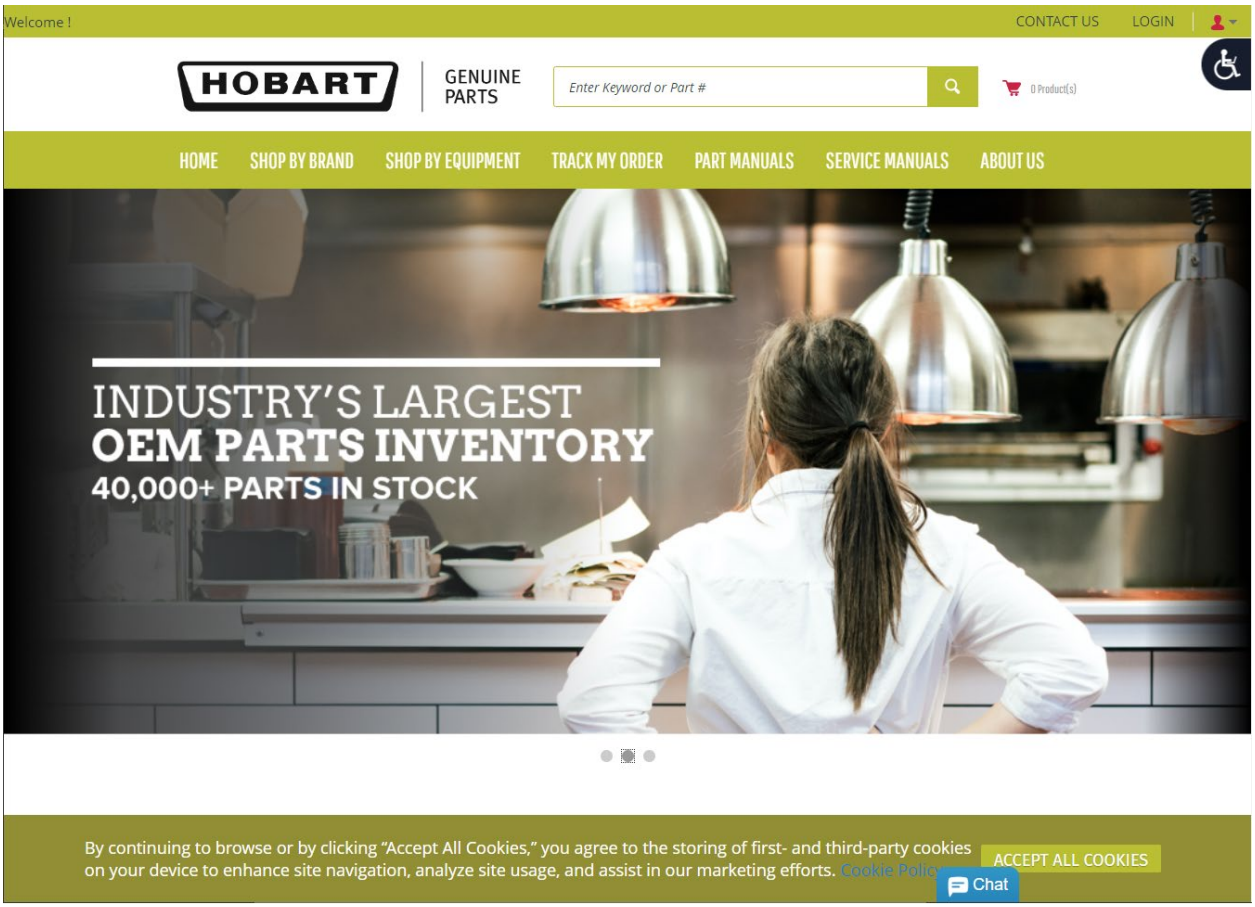
Symptom	Possible Causes
Machine leaks from door.	1. Machine not level. 2. Machine operated without a rack. 3. Door gasket malfunction. 4. Door not adjusted correctly. 5. Drain pump – Hanning malfunction. 6. Sump Water Level Sensor 1PRS malfunction. 7. Top control board panel, pull out drawer screws not secured, causing door to not close properly. 8. Side panel screws not secured, causing door to not close properly. 9. Control Board malfunction. 10. Soft start not operational component function or needs adjusted.
Door not staying closed during wash.	1. Door spring malfunction. 2. Other door components malfunction. 3. Door lock malfunction (if applicable).
Machine will not drain.	1. Drain hoses restricted or kinked. 2. Dishwasher needs power cycled. 3. Drain pump – Hanning malfunction. 4. Door open during power down. 5. Control Board malfunction. 6. Anti-siphon valve malfunction. 7. Drain water tempering malfunction. Water left in tank. 8. Sump water level sensor 1PRS malfunction including pressure sensor tubing and water trap, shutting down machine prematurely. Verify all connections are tight and no standing water in pressure tubing. 9. Loose connections on control / power supply board harnesses.
Some water occasionally drips out of rinse arms (LXeH, LXeR, & LXeSR only).	1. This is normal due to expansion of water being heated in the booster tank.
Not enough steam reduction (LXeR, LXGeR, & LXeSR only).	1. Machine connected to water supply having improper water temperature. 2. Blower motor assy (LXeR, LXeSR & LXGeR Only) malfunction. 3. Flow restrictor (LXeR, LXeSR & LXGeR Only) malfunction. 4. Clean condenser coil fins (LXeR, LXeSR & LXGeR Only).

Symptom	Possible Causes
Booster or holding tank takes too long to fill or won't fill.	1. Low water pressure. 2. Flow restrictor (LXeR, LXeSR & LXGeR Only) clogged or damaged. 3. Clogged hose strainer. A. Visual inspection of the booster air trap hose. B. Verify hose has not been pulled off or standing water visible in tube. 4. No water flow. 5. Water level sensor 2PRS malfunction including hose and air trap. A. Verify there is no water in air hose and air hose is tightly secured. 6. Fill valve malfunction. 7. Fill valve fuse F2 open. 8. Air trap or booster vent clogged showing; could result in intermittent booster level sensor error or fill error. 9. Control board malfunction. 10. 1PRS and 2PRS may be wired backwards.
Chemicals not feeding	1. Low supply or tubing not positioned in bottle correctly. 2. Pumps not primed. 3. Air in lines. 4. Lines kinked. 5. Control Board not programmed correctly. 6. Chemical Sensors clogged or malfunctioning. 7. Control Board malfunction. 8. Pinch tubing warning. 9. Worn chemical pump tubing. 10. Clogging of injection fittings at booster or chemical vent adaptor.
Noisy Wash Arm	1. Loose Wash Ring in upper wash arm, lower wash arm, or both. 2. Verify wash arm hub is not worn. 3. Verify wash arm sealing ring is not warn. 4. Verify wash arm is not cracked or damaged. 5. Verify rinse shafts are tight and their locking tabs with retainer screws are not stripped.
Noisy during condensing cycle	1. Check condensate fan and bearing for wear and any excess movement.
Upper and Lower wash arm falls off	1. Advansys snap on Rinse Arm loose and pops off. **NOTE:** If problem persists, convert to screw on base style arms or new style snap on arms. See Parts Catalog for options.

Hobart Online Parts Store

Order parts by clicking on image below to reach our Hobart Service Parts Store.

https://www.hobartparts.com



Parts Catalogs

Click on image below for most recent edition.

LX & LXi Parts Catalog