

Operation Manual

Glas tender®

GT-18 SERIES GLASSWASHERS

GT-18, GT-18+1, GT-18+1L, GT-18+1R, GT-18+2, GT-18+2-IC and GT-18+3
(manufactured after August 2006)



GT-18



GT-18+2

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IMPORTANT !!**Attention Service Companies**

Please review the important warranty information on page 1 of this manual. If labor warranty applies, authorization must be obtained from the factory prior to the service being performed. Please call the factory between 8:00AM and 5:00PM EST, Monday through Friday.

This manual describes the operational features of the GT-18, GT-18+1, GT-18+1L, GT-18+1R, GT-18+2, GT-18+2-IC and GT-18+3 model glasswashers. Please review this information before attempting installation and operation. Long term, trouble-free operation will follow if good housekeeping and maintenance procedures are followed. Thank you for selecting Glastender, Inc. products.

WHAT IS A GLASSWASHER?

Glastender, Inc. has been manufacturing automatic glasswashers since 1969. Today, Glastender glasswashers have been installed around the world. But what is a glasswasher? It is simply a piece of machinery that washes glassware, which eliminates the need for human labor and the conventional three-compartment sink. The glasswasher is, in effect, a mechanized three-compartment sink. It “washes”, “rinses”, and “sanitizes” glassware.

NOTE THE SIMPLICITY:

<u>FUNCTION</u>	<u>DESIGN</u>
WASH	120°F (48.9°C) water and a preset portion of detergent join in the tank. During operation, 5 gallons per minute of hot soapy water are pumped in a forceful, but gentle, spray pattern across the moving glassware. When the wash cycle is complete, all water is drained. While the drain is still open, clean water pre-rinses the holding tank to prepare for the rinse and sanitize cycle.
RINSE AND SANITIZE	120°F (48.9°C) water and a preset portion of sanitizer and rinse aid join in the tank. During operation, 5 gallons per minute of rinse water are pumped in a forceful, but gentle, spray pattern across the moving glassware. At the end of the cycle, all water is drained so the next load can begin with fresh, clean water.

Please read on to learn more about this simple machine.

WARRANTY

LABOR: Glastender, Inc. warrants all products to be free of defects in material and workmanship. In established areas, a start-up and a 90-day labor warranty are included with glasswasher models GT-24 and GT-30. The GT-18 series glasswashers include a 90-day labor warranty. Self-contained refrigeration models, except beer line chillers, include a 1-year labor warranty, for the duration of one year from date of installation or up to 18 months from date of factory shipment, whichever occurs sooner. For warranty labor claims beyond 15 months from the date of factory shipment, proof of date of installation or occupancy must be provided. Authorization for labor must be obtained from Glastender within the warranty period and prior to the service being performed. Labor warranty applies to the United States and Canada only.

PARTS: Within one year from date of installation, or 15 months from date of factory shipment, whichever occurs sooner, Glastender, Inc. will replace any part or assembly found defective under normal use and service. Field replacement parts include a warranty of 90 days from date of installation. All self-contained refrigeration models include a 5-year compressor warranty.

A warranty claim form **MUST** accompany all returned defective parts or assemblies. This form **MUST** be completed in full. Failure to do so may result in delay or denial of credit. Any defective part or assembly must be returned to Glastender, Inc., Saginaw, Michigan, with all transportation and delivery charges prepaid. Warranty repairs or replacements will be shipped FOB factory in Saginaw, Michigan.

The warranty does not cover equipment subjected to accidents, freight damage, alterations, improper power and/or plumbing hookups, improper chemical use, general misuse, or lack of routine required maintenance as determined by Glastender, Inc.

No representative, distributor, dealer, or any other person is authorized to modify this warranty. This warranty replaces all other written or verbal warranties.

NOTE: Glastender, Inc.’s policy of constant quality improvement means that prices, specifications, and policies are subject to change without notice. Questions regarding this warranty should be directed to Glastender’s Customer Service Representative.

03/01/07

*1. General
Plumbing*

- a. 1/2" OD (or larger) copper to 3/8" FMPT adapter provided
- b. Minimum water pressure is 25 PSI
- c. Maximum water pressure is 100 PSI. Install water pressure regulator if line pressure is over 100 PSI. Water valve on unit has built-in strainer and flow control to provide consistent volume between 25 and 100 PSI
- d. Install separate water shut-off valve
- e. Unit has built-in air gap - vacuum breaker is not required
- f. Maximum temperature is 150°F (66°C)
- g. Minimum temperature is 120°F (49°C)
- h. Consumption is 2-1/2 gallons per cycle

2. Drain

- a. 1-1/2" tailpiece
- b. Use open type floor drain for maximum drainage

3. Electrical

- a. 120V, single phase, 60Hz, 6-foot grounded cord included
- b. Dedicated 15 amp circuit recommended
- c. Power requirements - 3.5 amps

4. Detergent

- a. Extra heavy duty, non-foaming, commercial liquid dishwashing detergent is required - .30% concentration
- b. Consult local chemical supplier to match detergent with local water conditions

5. Sanitizer

- a. Liquid chlorine bleach (sodium hypochlorite - 5.25% solution) adjusted to 50 ppm

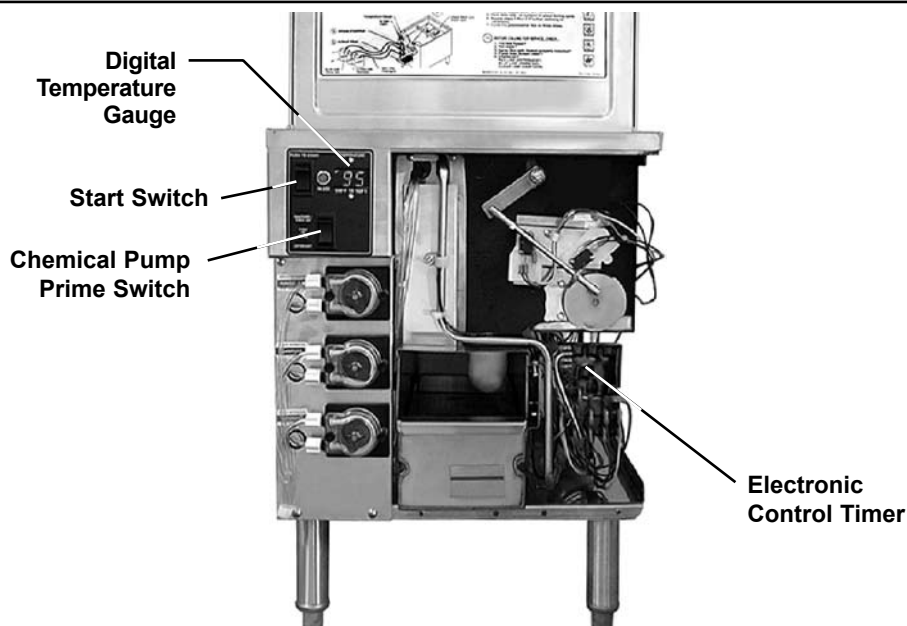
6. Rinse Aid

- a. Liquid Rinse Aid adjusted for proper sheeting

*7. Installation
Considerations*

- a. 1" clearance required to remove top
- b. Front side service is essential
- c. Detergent, Sanitizer, and Rinse Aid containers are stored externally - six-foot lengths of tubing are provided. Storage for three one-gallon containers is required within five feet

MAIN SECTION FRONT VIEW



GT-18 Glasswasher with front panel removed

UNCRATING AND START-UP INSTRUCTIONS



The glasswasher is shipped in two cartons. After uncrating, follow this procedure:

1. Set in place and install top.
2. Place chemical Feed Lines into the proper chemical containers.
 - a. Red is detergent.
 - b. Blue is rinse aid.
 - c. Clear is sanitizer.

WARNING: The chemicals used in commercial glasswashing are very harsh. Exposure to human skin can cause severe burns. Chemical containers should be stored in a manner and/or location that prevents them from spilling or splashing. Chemical containers must be secured. Please consult your chemical vendor to ensure proper storage or call the Glastender factory to purchase a clip-on chemical rail, part number 01000710.

3. After utility connections described above are completed, plug in glasswasher.
4. Depress Prime switches to fill Feed Lines. NOTE: Always cycle the machine after using the prime switches. Undiluted chemicals will damage stainless steel.
5. Cycle the glasswasher and check chemical settings.
6. If chemical adjustment is required, unplug glasswasher, remove front panel, and adjust chemicals as required using the Electronic Control Timer. See chemical adjustment procedure below.

CHEMICAL ADJUSTMENT PROCEDURE

The chemical strengths should be tested with a professional test kit by the chemical supplier. Water samples should be taken during the wash cycle and the rinse cycle.

Detergent - .30% concentration

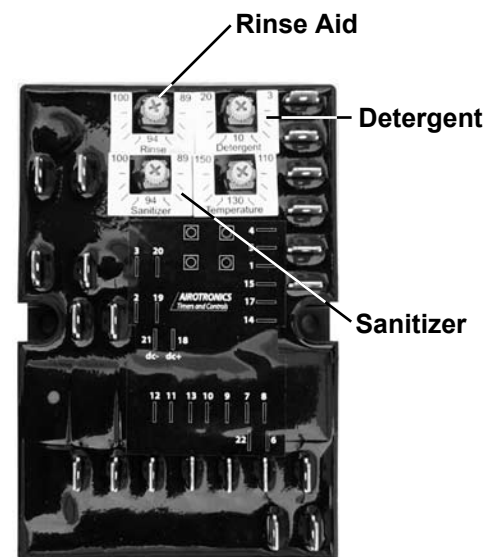
Sanitizer - 50 PPM (sodium hypochlorite [bleach])

Rinse Aid - until proper sheeting is achieved

Detergent: If the factory setting does not render the proper concentration, turn the detergent adjustment knob clockwise to increase or counterclockwise to decrease the dispense time. Repeat chemical testing procedure and adjust again if necessary.

Sanitizer: If the factory setting does not render the proper concentration, turn the sanitizer adjustment knob clockwise to increase or counterclockwise to decrease the dispense time. Repeat chemical testing procedure and adjust again if necessary.

Rinse Aid: If the factory setting does not render the proper level of sheeting, turn the rinse aid adjustment knob clockwise to increase or counterclockwise to decrease the dispense time. Run a test cycle to check wash results and adjust again if necessary.



Electronic Control Timer

7. Replace panel and plug in glasswasher. Cycle the glasswasher and check chemical settings. Repeat step 6 if necessary.

The GT-18 glasswasher has a two-minute cycle which consists of the following steps:

1. The drain will close, hot water fills the tank, and detergent dispenses.
2. At 15 seconds, the water recirculating pump starts.
3. At 20 seconds, hot water and detergent stop. NOTE: The detergent is adjustable so this timing may vary.
4. At 72 seconds, the water recirculating pump stops and the drain opens.
5. At 80 seconds, hot water flushes the tank.
6. At 85 seconds, the drain closes, hot water fills the tank, and sanitizer and rinse aid dispense.
7. At 98 seconds, the water recirculating pump starts.
8. At 105 seconds, hot water stops and sanitizer and rinse aid stop depending on the adjustment.
NOTE: The sanitizer and rinse aid are adjustable so this timing may vary.
9. At 115 seconds the water recirculating pump stops and the drain opens. The cycle is complete.

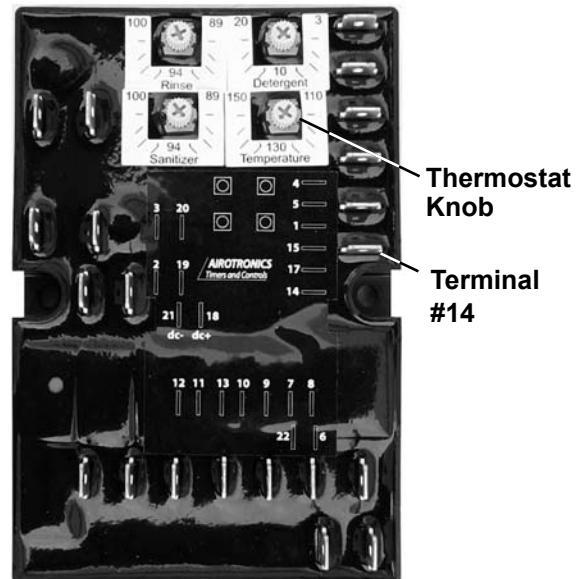
THERMOSTAT CONTROL

The Thermostat Control is pre-set by the factory to start the wash cycle when the water temperature reaches 130°F. When the Start Switch is actuated the Thermostat Control will flush water through the glasswasher for two minutes or until 130°F is reached. If 130°F temperature is not reached within two minutes, the machine will automatically begin the cycle. If the glasswasher starts at the factory setting, no further adjustment is required.

If the machine is regularly experiencing a delay in the cycle start due to low incoming water temperature, the thermostat control can be adjusted down to as low as 120°F to help decrease the delay. Please note the factory recommends a minimum incoming water temperature of 130°F for best wash results.

***NOTES:**

1. A minimum incoming water temperature of 120°F is required to achieve proper wash results.
2. The Digital Temperature Gauge reads approximately ten degrees below actual incoming water temperature. (The temperature gauge will be accurate when the water tank is full.)
3. Place a thermometer in the water stream at the water inlet to determine the incoming water temperature.



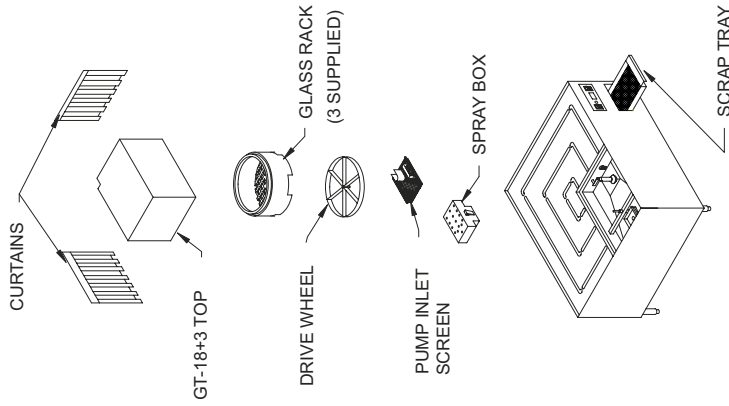
DO YOU HAVE LOW WATER PRESSURE?

Installations that have abnormally low water pressure may have trouble getting enough water into the glasswasher. Disconnect from the power source. Remove the red wire with white tracer at Terminal #14 on the master circuit board. Reconnect to the power source, resetting the circuit board. The overall cycle time will increase from 2 minutes to 2 minutes and 20 seconds. The additional 20 seconds will provide extra time to fill the tank during each of the wash and rinse cycles.

EXPLODED VIEW OF GT-18 SERIES GLASSWASHERS

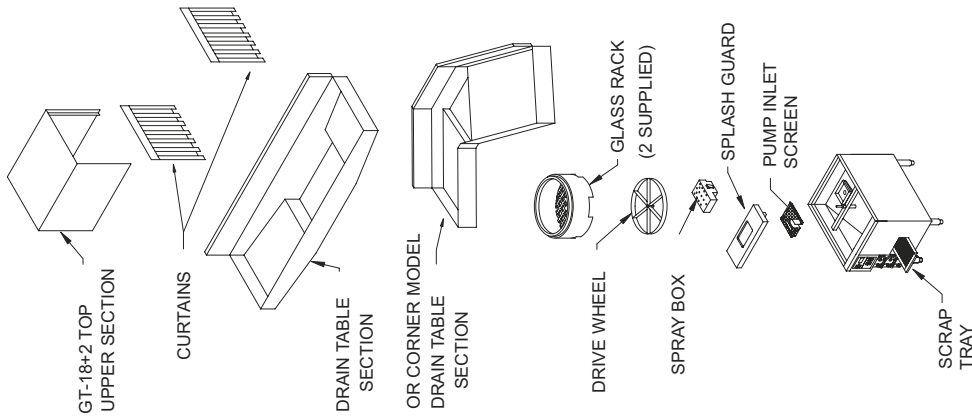


GT-18+3 GLASSWASHER



GT-18 SERIES GLASSWASHER
EXPLODED VIEW

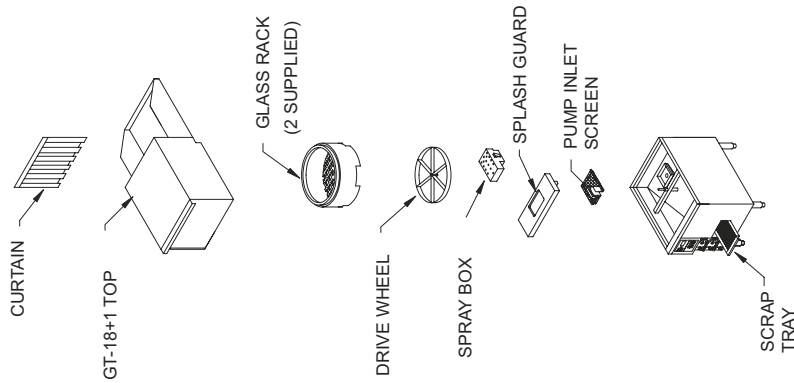
GT-18+2 GLASSWASHER



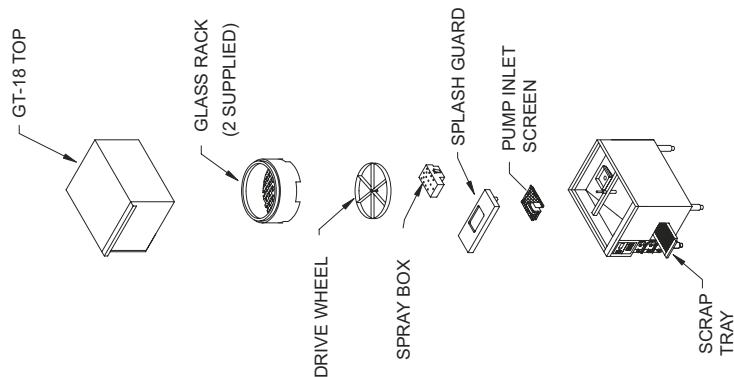
NOTE: EXTENDED DRAIN
TABLE MODELS

SIZE	GLASS RACKS
78"	3
90"	4
108"	5
120"	6

GT-18+1 GLASSWASHER



GT-18 GLASSWASHER



GT-18 WIRING DIAGRAM

ITEM:	PART #
Micro-Controller	01001231
Transformer	01000555
Temperature Indicator	01000606
Cycle Start Switch	07000257
Prime Switch	01000552
Rinse Aid Motor	01000596
Rinse Aid Pump	01000571
Sanitizer Motor	01000596
Sanitizer Pump	01000571
Detergent Motor	01000596
Detergent Pump	01000571
Run Light	01000592
Conveyor Motor	01000595
Water Valve	01000561
Drain Motor	01000595
Recirculating Pump	01000415

ELECTRICAL RATINGS

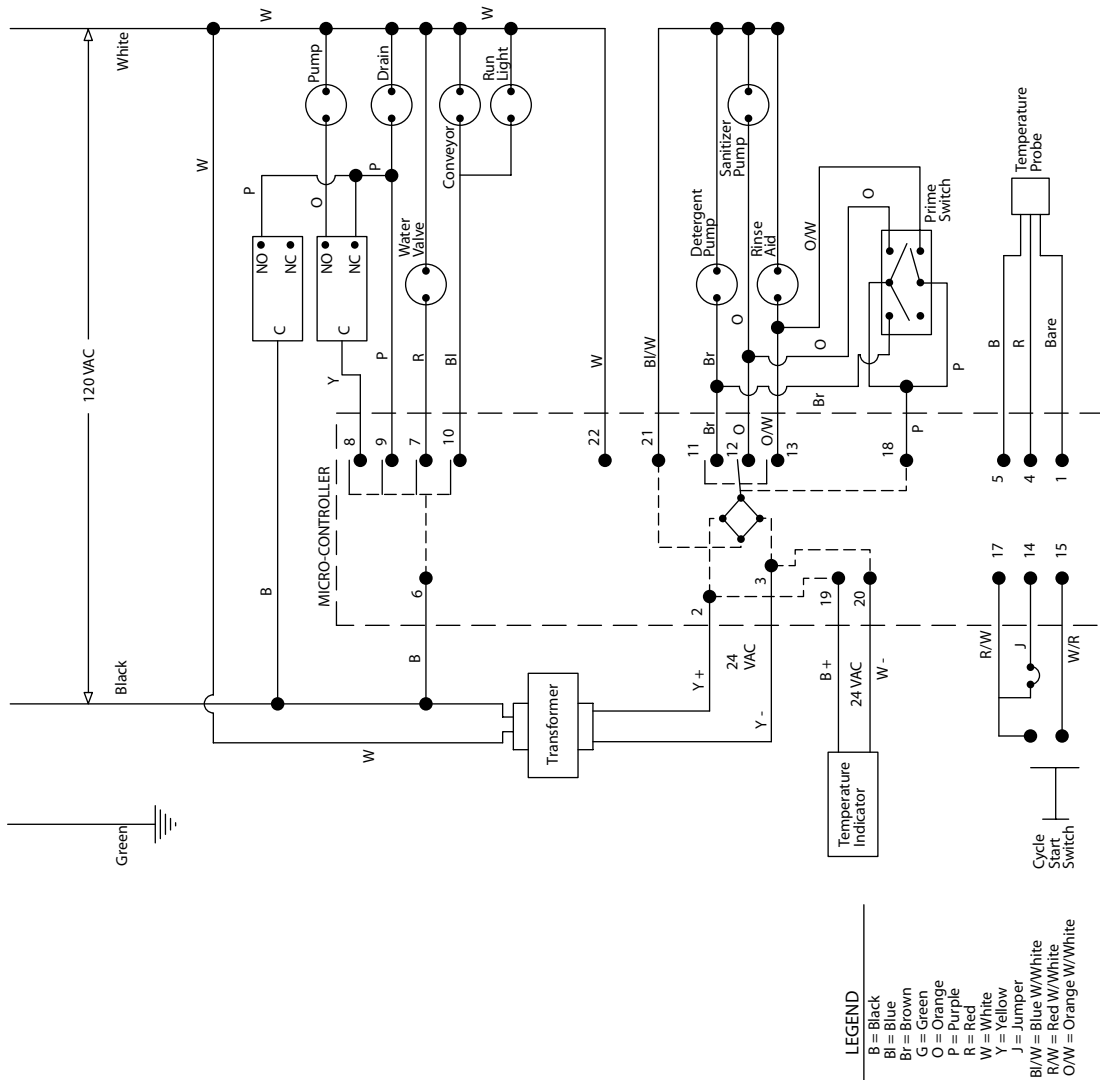
Recirculating Pump Motor	1/12 HP, 2.2A
Drive Motor	1/140 HP, 0.49A
Water Inlet Valve	85mA
Detergent Pump Drive Motor	2A
Sanitizer Pump Drive Motor	2A
Rinse Aid Pump Drive Motor	2A
Drain Motor	1/140 HP, 0.49A

Total Amps 4.4

RECOMMENDED SERVICE

120V, Single Phase, 60Hz, 15 Amp

GT-18 Wiring Diagram



LEGEND

- B = Black
- Bl = Blue
- Br = Brown
- G = Green
- O = Orange
- P = Purple
- R = Red
- W = White
- Y = Yellow
- J = Jumper
- Bl/W = Blue/White
- R/W = Red/White
- O/W = Orange/White

GT-18+3 WIRING DIAGRAM



ITEM:	PART #
Micro-Controller	01001231
Transformer	01000555
Temperature Indicator	01000606
Cycle Start Switch	07000257
Prime Switch	01000552
Rinse Aid Motor	01000596
Rinse Aid Pump	01000571
Sanitizer Motor	01000596
Sanitizer Pump	01000571
Detergent Motor	01000596
Detergent Pump	01000571
Run Light	01000592
Conveyor Motor	01000595
Water Valve	01000561
Drain Motor	01000595
Recirculating Pump	01000495

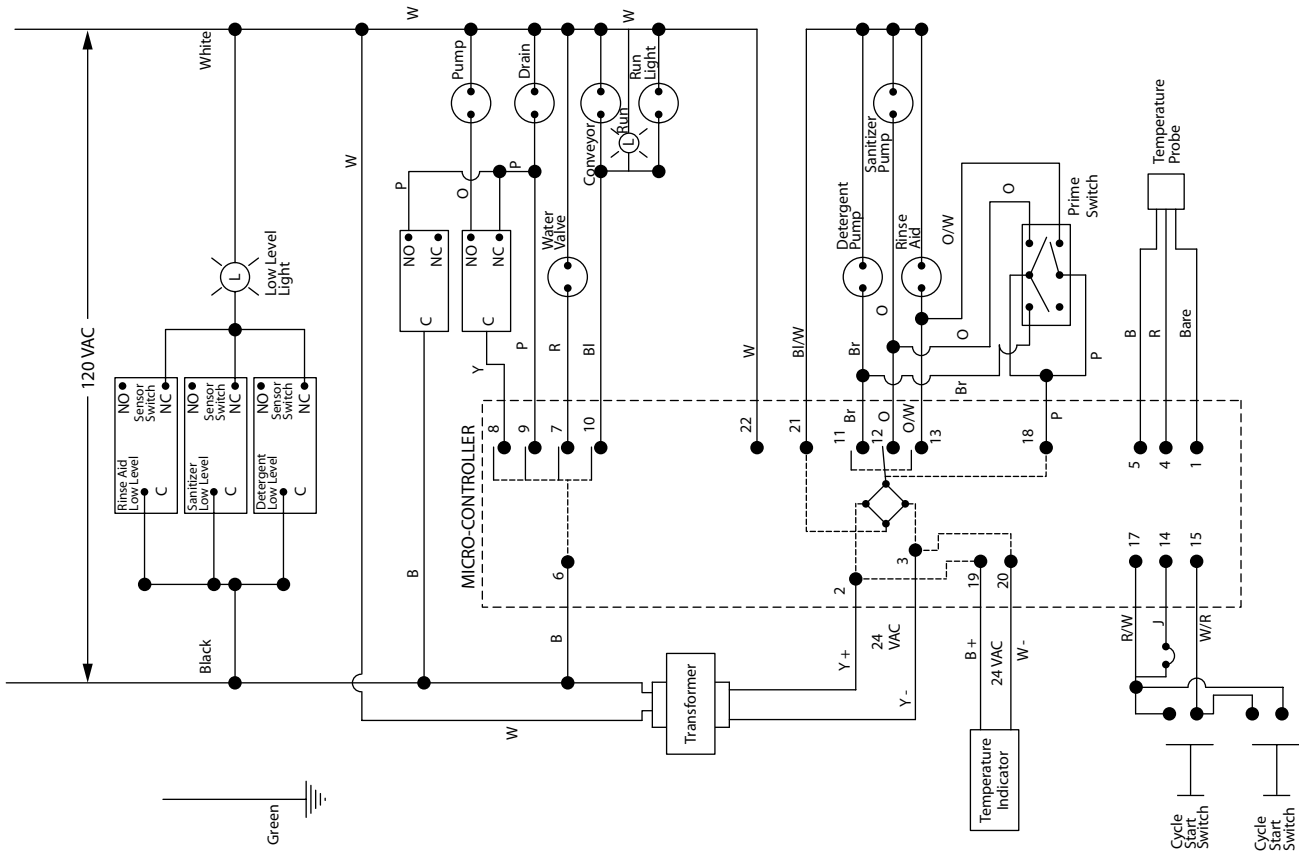
ELECTRICAL RATINGS

Recirculating Pump Motor	1/12 HP, 2.7A
Drive Motor	1/140 HP, 0.49A
Water Inlet Valve	85mA
Detergent Pump Drive Motor	.2A
Sanitizer Pump Drive Motor	.2A
Rinse Aid Pump Drive Motor	.2A
Drain Motor	1/140 HP, 0.49A
Total Amps	4.4

RECOMMENDED SERVICE

120V, Single Phase, 60Hz, 15 Amp

GT-18+3 Wiring Diagram



LEGEND

B	= Black
Bl	= Blue
Br	= Brown
G	= Green
O	= Orange
P	= Purple
R	= Red
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ELECTRICAL RATINGS

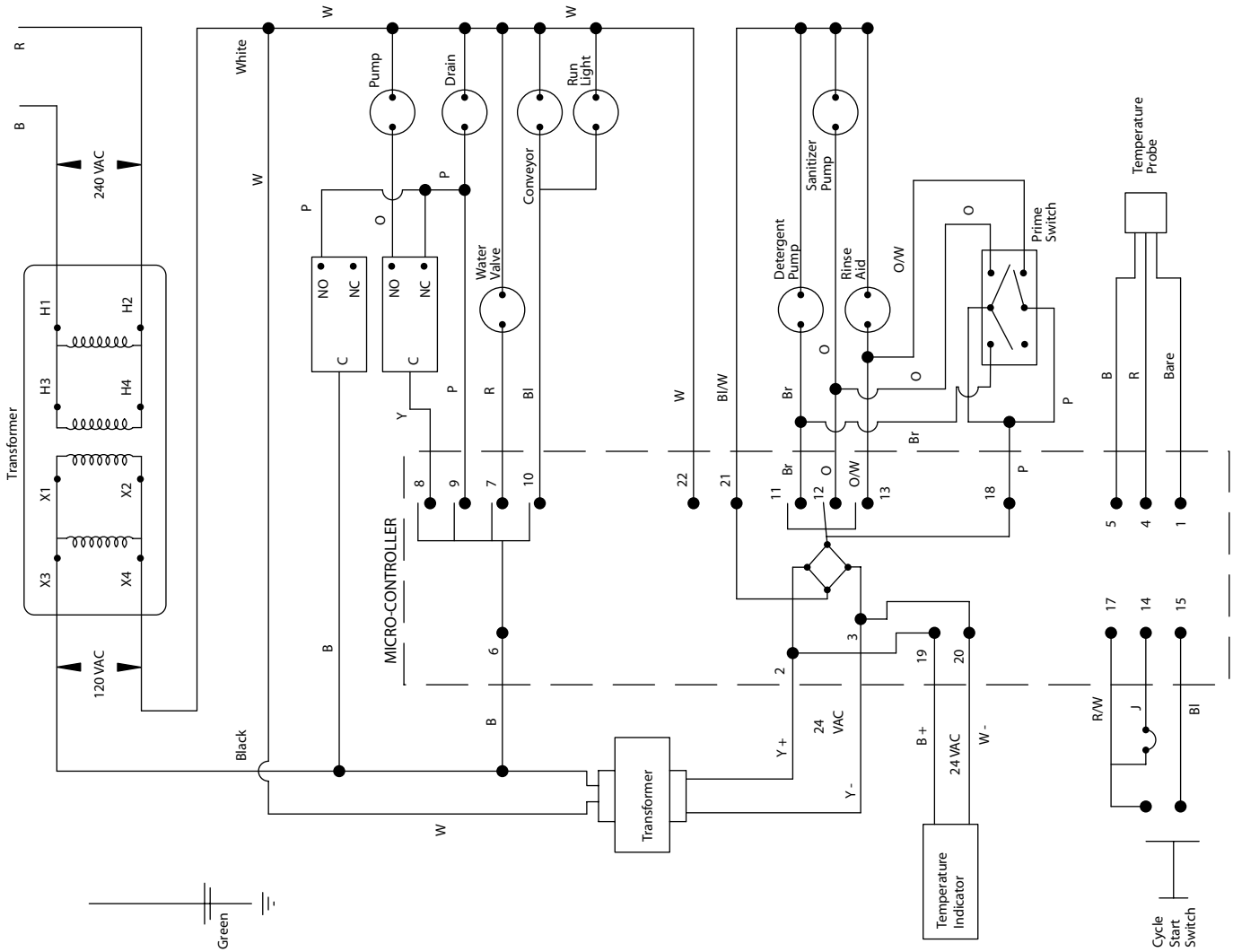
Recirculating Pump Motor	1/12 HP, 2.7A
Drive Motor	1/140 HP, 0.48A
Water Inlet Valve	85mA
Detergent Pump Drive Motor	.2A
Sanitizer Pump Drive Motor	.2A
Rinse Aid Pump Drive Motor	.2A
Cycle Timer Motor	.02A
Drain Motor	1/140 HP, 0.48A
Total Amps	4.4

RECOMMENDED SERVICE

120V, Single Phase, 60Hz, 15 Amp

LEGEND

- B = Black
- Bl = Blue
- Br = Brown
- G = Green
- O = Orange
- P = Purple
- R = Red
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- J = Jumper
- Bl/W = Blue W/White
- R/W = Red W/White
- O/W = Orange W/White



WATER CONDITIONS

Your water supply fits one of the following descriptions.
 Greater detergent consumption is required with “hard” water.

<u>DESCRIPTION</u>	<u>GRAINS PER GALLON</u>	<u>PARTS PER MILLION</u>
Soft	Less than 1.0	Less than 17.1
Slightly Hard	1.0 to 3.5	17.1 to 60
Moderately Hard	3.5 to 7.0	60 to 120
Hard	7.0 to 10.5	120 to 180
Very Hard	10.5 and over	180 and over

DETERGENT TITRATING INSTRUCTIONS

A Titrating Kit is required for proper chemical adjustment. If the Kit is not available from your chemical supplier, one can be purchased from Glastender, Inc. Follow these instructions:

1. Fill test tube with five (5) ml of detergent solution from the Holding Tank during the wash cycle.
2. Add two (2) drops of “Indicator” to solution. The solution will turn a pink color (magenta).
3. Add five (5) drops of “Titrant” and mix the solution by closing the test tube with finger and shaking gently.
4. Detergent concentration is determined by amount of “Titrant” required to make the solution turn clear. Add one (1) drop at a time, shaking gently between each additional drop. The solution should turn clear between ten (10) and twelve (12) drops. More than twelve (12) drops means the detergent concentration is too high. Proper detergent concentration is .30%.

SANITIZER ADJUSTMENT INSTRUCTIONS

Operate glasswasher to allow sanitizer levels to stabilize. Dip Chlorine test strip into Holding Tank during the rinse and sanitize cycle for one (1) second. Then immediately compare the strip to the scale on the side of the test strip container tube. Adjust sanitizer (bleach) to 50 PPM.

IMPORTANT NOTE: Glasswashers are **NOT** water conditioners. Consult local water conditioning experts to determine your specific water condition.

The GT-18 glasswasher has chemical pumps that automatically dispense chemicals into the machine. The detergent and sanitizer chemicals are supplied by a chemical vendor. Since the type of chemicals and the condition of water varies by region, the chemical pumps are not pre-set at the factory. *The chemical pumps must be adjusted at start-up to achieve the proper titration levels or the machine may not produce good wash results.* Typically, the chemical vendor is responsible for adjusting the chemical pumps.

Since detergent and sanitizer chemicals play an important role in the performance of a glasswasher, understanding how the chemical pumps work and how to maintain them is very important. Reviewing the following information will help ensure the proper operation of your glasswasher and its chemical pumps:

1. CAUTION: Always cycle the machine after using the prime switches to rinse out the wash/rinse tank. Undiluted chemicals will damage stainless steel.
2. The chemical feed lines must be properly placed inside the appropriate chemical container. Damaged chemical lines will spill chemicals on the machine and floor and create poor wash results.
3. Every glasswasher requires chemical pump adjustment and titrating by a chemical vendor. Poor wash results will occur if the chemicals are not in proper concentration (see the operation manual for proper concentration levels).
4. Glasswasher chemicals are highly caustic and will cause severe burns when they contact human skin. These same caustic chemicals will also corrode stainless steel and destroy machine components. A glasswasher should be checked regularly for chemical leaks and any leaks should be corrected immediately.
5. All of the chemical tubing on a glasswasher should be inspected regularly and replaced at least once per year. The highly caustic chemicals cause the chemical tubing to get brittle, and since leaking chemicals destroy glasswasher components, it is good preventative maintenance to replace chemical tubing often. The various tubing includes the lower tubing assembly or main chemical feed line, the pump squeeze tube (especially susceptible to damage), and the upper tubing assembly from the pump to the glasswasher tank.
6. Chemical vendors that deliver chemicals to your establishment are typically responsible for adjusting the chemical levels in your glasswasher. They are also helpful for assisting you with chemical tubing inspection and replacement. Nothing removes your responsibility for proper maintenance, but the chemical vendor will help.

1. **NEVER, NEVER** wash ash trays in the glasswasher. Since ashes are smaller than the opening in the Pump Inlet Screens, ashes, could adhere to glasses. Also, with ashes recirculating in the wash water, the cleaning effectiveness of the detergent is greatly reduced. The final result of washing ash trays is dirty glasses.
2. For best results, run glasswasher full of glassware. This keeps the water and detergent consumption to a minimum.
3. Water spotting can occur when glassware is placed on flat surfaces after washing thus preventing air to assist the drying process. Make sure the proper shelf liner or drying surface is used.
4. The maximum glass height is ten (10) inches to fit through the Top Section of the glasswasher. Keep this in mind when ordering beer pitchers and wine carafes.
5. Glasses which have been frequently washed by hand may have deposits of invisible “film.” Although initially appearing clean, these glasses may show unsightly signs of “dirt” after passing through the glasswasher. This unsightly condition will exist until the film is removed with frequent passes through the glasswasher, or it may be necessary to use a de-liming agent to clean glassware.
6. Do not place wet glasses into glass chillers or frosters. Allow glasses to dry and sanitizer odors to dissipate first.
7. Changing detergents may require readjustment of the Detergent Pump to maintain .30% detergent concentration. A greater volume of low strength detergent is required to maintain the proper level.
8. Only Glastender, Inc. replacement parts should be used. Components from other suppliers may result in machine malfunctions.

Please consult your Glastender, Inc. service agent if service or technical assistance is required. The factory is also available to answer any operational questions.

Regular maintenance of your Glastender glasswasher will extend its useful life and lower the service costs. The top section of a GT-18 glasswasher is removable to ease regular maintenance. Also, the following parts are removable for daily cleaning:

1. Spray Box
2. Splash Guard
3. Pump Inlet Screen
4. Drain Stopper (Overflow hole to rear)
5. Scrap Tray

The daily cleaning procedure consists of the following steps:

1. With machine not operating, remove Spray Box, Spray Box Gasket and Pump Inlet Screen.
2. Remove all debris.
3. Wipe the interior of tank with a damp cloth. For more stubborn soil or stains, you may scrub the interior of the tank with a Scotch-Brite[®] pad. Do **NOT** use steel wool.
4. Rinse the interior with clean water.
5. Rinse and scrub clean the Spray Box, Spray Box Gasket, and Pump Inlet Screen as necessary and reinstall into machine.
6. Check Detergent, Sanitizer, and Rinse Aid Containers. Refill or replace if empty.
7. Visually inspect the Detergent Inlet after the drain has closed and water begins to fill the tank. You should notice detergent intermittently dripping. Approximately 85 seconds later, visually inspect the Sanitizer and Rinse Aid Inlets after the drain has closed and water begins to fill the tank. You should notice sanitizer and rinse aid intermittently dripping.
8. Your glasswasher is now ready for operation.

DELIMING PROCEDURE

When the interior is coated with a white chalky substance, perform the following Deliming Procedure (after daily cleaning has been completed):

1. Place empty Glass Rack on drive wheel.
2. Push Start Switch.
3. Catch the detergent in a cup and dispose.
4. Pour one cup of deliming agent in the glasswasher. **WARNING!** Most deliming agents are hazardous. Follow all instructions very carefully!
5. Do not open the door until the cycle is complete.
6. Repeat steps 1 thru 5 if further deliming is necessary.
7. Cycle the glasswasher two or three times.

TROUBLE SHOOTING GUIDE



TROUBLE OR SITUATION	CAUSE	REMEDY
A. Unit does not run	<ol style="list-style-type: none"> 1. No power (Power light “off.”) 2. Defective start switch 3. Wire connections poor, loose, or broken. 	<ol style="list-style-type: none"> 1. Check power source. 2. Replace start switch. 3. Re-crimp and/or replace wire connection.
B. Unit experiences a long delay (up to two minutes) before beginning a cycle.	<ol style="list-style-type: none"> 1. Incoming water does not reach minimum operating temperature. 	<ol style="list-style-type: none"> 1. See Thermostat Control information on page 4 and check temperature of water source.
C. Conveyor runs but holding tank not filling	<ol style="list-style-type: none"> 1. Water “off.” 2. Bad water valve. 	<ol style="list-style-type: none"> 1. Turn water “on.” 2. Test valve, replace if necessary.
D. Conveyor moves intermittently	<ol style="list-style-type: none"> 1. Loose belt. 	<ol style="list-style-type: none"> 1. Tighten belt by first loosening the four motor mount towards front and retighten bolts. Caution: Excessive belt tension could cause drive motor failure.
E. Water recirculating, conveyor not moving	<ol style="list-style-type: none"> 1. Obstruction in tank area 2. Conveyor not engaged with conveyor drive shaft. 3. Defective drive motor. 4. Defective or loose belt. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Rotate conveyor until it engages. 3. Replace drive motor. 4. Replace or tighten belt.
F. Water not recirculating	<ol style="list-style-type: none"> 1. Completely plugged pump inlet screen. 2. Defective recirculating pump. 	<ol style="list-style-type: none"> 1. Clean pump inlet screen. 2. Replace recirculating pump.
G. Water leaking from recirculating pump housing - water on floor	<ol style="list-style-type: none"> 1. Defective pump seal. 2. Pump housing cracked. 	<ol style="list-style-type: none"> 1. Replace pump seal. 2. Replace housing.
H. Glasses slimy or soapy at end of cycle	<ol style="list-style-type: none"> 1. Sanitizer feed line in detergent container. 2. Improper Rinse Aid setting. 	<ol style="list-style-type: none"> 1. Clean line and place in proper container. 2. Adjust chemical setting (see page 3).
I. Recirculating water pressure low	<ol style="list-style-type: none"> 1. Spray box not latched properly. 2. Partially plugged pump inlet screen. 3. Missing or worn spray box gasket. 	<ol style="list-style-type: none"> 1. Latch spray box properly. 2. Clean pump inlet screen. Refer to cleaning instructions. 3. Replace gasket.
J. Detergent, sanitizer, and/or rinse aid not feeding properly	<ol style="list-style-type: none"> 1. Chemical container is empty. 2. Feed lines will not fill. 	<ol style="list-style-type: none"> 1. Refill or replace container(s). 2. Replace defective parts. Notes: The detergent, sanitizer, or rinse aid product advances in the line on each stroke of the pump. The product should hold position between strokes. If the product falls back toward the supply container, one or more of the following conditions may exist: <ol style="list-style-type: none"> a. Debris in pump, b. Split feed line, or c. Bad pump tube. Replace parts as necessary.
K. Poor washing results	<ol style="list-style-type: none"> 1. Clogged spray nozzles and dirty holding tank. 2. Detergent container empty. 3. Poor water conditions. 4. Chemicals not adjusted properly. 5. No hot water. 	<ol style="list-style-type: none"> 1. Clean unit. See cleaning instructions. 2. Fill container. 3. Have filter or softener installed. 4. Call chemical technician. 5. Check temperature of water source.

UNPARALLELED UNDERBAR DESIGN & ENGINEERING

Expect more



more flexibility
more features



**Glas
tender**®

Glastender has the most complete line of bar equipment and the ability to manufacture custom units, giving you virtually unlimited design flexibility. Each piece of equipment is engineered with features that enhance your efficiency, ease your maintenance, and prolong the life of your investment.

The flexibility you want. The features you need.

Glastender. Expect more.

GLASSWASHERS • COCKTAIL STATIONS • COOLERS • FROSTERS • BEER SYSTEMS