

- Check the interior of the machine and remove any foreign material.
- Check the scrap screens, baffles and curtains – make sure that they are installed and positioned properly.
- Close the tank drain(s). Door activated. Check for proper seal.
- Turn the main power on at the breaker panel or fused disconnect switch.
  - Machine main power.
  - Electric booster main power (if applicable). Gas booster powered up (if applicable)
- Flip the Power Switch on the front of the Control Cabinet to the “ON” position.
  - The power switch light will illuminate.
  - The machine will begin to fill with water.
- Allow the machine to completely fill with water.
  - The water will shut off automatically and the heat will energize when full.
  - Check for proper water level (water level should be even with center of top float ball).
- Check for leaks and take corrective action if required.
  - Pumps, seals (check during operation and setting idle)
  - Valves
  - Tank Seams
  - Drains
  - Detergent and rinse aid dispensers (supplied by others)
- Monitor the tank thermometers for the proper temperature reading.
  - Allow sufficient time for the tank heat to reach operating temperature.
    - Prewash 120° - 140° (no heat)
    - Wash 160° - 180° (single tank machines)
    - Wash 150° - 170° (two tank machines)
    - Power Rinse 165° - 180° (two tank machines)
    - Dual Rinse 165° - 180° (if applicable)
  - Adjust the thermostat setting, if necessary.
- Press the GREEN start button on the front of the control cabinet.
  - The Drive and Pump(s) will not start until a rack is placed in the load end of dish machine.
  - Check the pump/drive start lever inside machine. Pushing lever should start pump(s) and drive when rack is placed inside load end of dish machine.
- Check door safety switch by opening door; machine should shut down. Push Green button and place rack in load end of dish machine to re-start.
- Check for proper rotation of each pump and drive motor. Drive motor has arrow to indicate proper rotation. Pump motor rotates clockwise when viewed from the rear of motor.

**Note: (1) all motors are phased at the factory. (2) If the incoming power supply has a high leg, the high leg should be connected to L3 at the dish machine’s main terminal block.**

  - If all the pumps and drive motors are incorrect:
    - Reverse wires L1 and L2 on the disconnect switch side of the main electrical terminal block, located inside the control cabinet.

# Start-up Form

## E Rack Conveyor Machines

- Check the anti-jam drive system (Factory set)
  - If need adjusting:
    1. Have a person of average build (about 185lbs) hold the rack with both hands and pull against the direction of travel. The conveyor should stop using maximum force.
- Check the Energy Sentinel (idle pump shut-off) by placing a dish rack on conveyor.
  - The drive conveyor and pump(s) will start as the dish rack enters the tunnel of the machine.
  - Check pump motor rotation. CW when viewed from the rear of motor.
  - The drive motor and pump(s) will time out when rack exit machine, (90 seconds)
- Check the final rinse temperature as the dish rack enters the final rinse area.
  - The final rinse temperature must be 180° - 195° F.
  - Adjust the temperature of the incoming water supply, if necessary.
  - Adjust the booster thermostat setting if necessary.
- Check the final rinse water pressure as the dish rack enters the final rinse area.
  - The final rinse pressure must be 20-22 PSI flow pressure
  - Adjust the pressure reducing valve setting, if necessary.
  - Check the incoming water line strainer, clean if necessary.
- Check that the pump(s) stop when object exits the tunnel of the machine.
  - The time is controlled by the circuit board, non-adjustable, and set for 90 seconds. (Rack must clear exit end of machine before drive and pump(s) shut-off.)

**NOTE: If the pump(s) does not time out properly, check the idle-pump start switch at load end.**
- Check the table limit switch located at the end of clean table. When the rack pushes the limit switch arm, the machine should stop.
  - Machine must shut down when racks push table limit switch lever.
  - Restart by clearing rack and pushing green button and placing a rack in the load end of the dish machine.
- Push the RED stop button. The drive conveyor and pump(s) will stop, if not timed out.
- Flip the power switch on the control cabinet to OFF. The power light will go out.
- Open all the drain valves and check that the house drains can handle the flow.

**Note: DR tank is located under lower final rinse arms. Open the second drain valve to drain the DR tank.**
- Explain that the machine must be drained after end meal period or every 2 hours of operation.
  - Scrap screens, pump intake screens, and drain strainer must be cleaned.
  - Reference operation manual for more detail instructions regarding operation, daily cleaning, and prevented maintenance.

# Start-up Form

## E Rack Conveyor Machines

Model \_\_\_\_\_, Serial \_\_\_\_\_

Conditions Found	Corrective Action Needed

General Manager \_\_\_\_\_ Date \_\_\_\_\_

Champion Sales Representative \_\_\_\_\_ Date \_\_\_\_\_

Champion Service Representative \_\_\_\_\_ Date \_\_\_\_\_