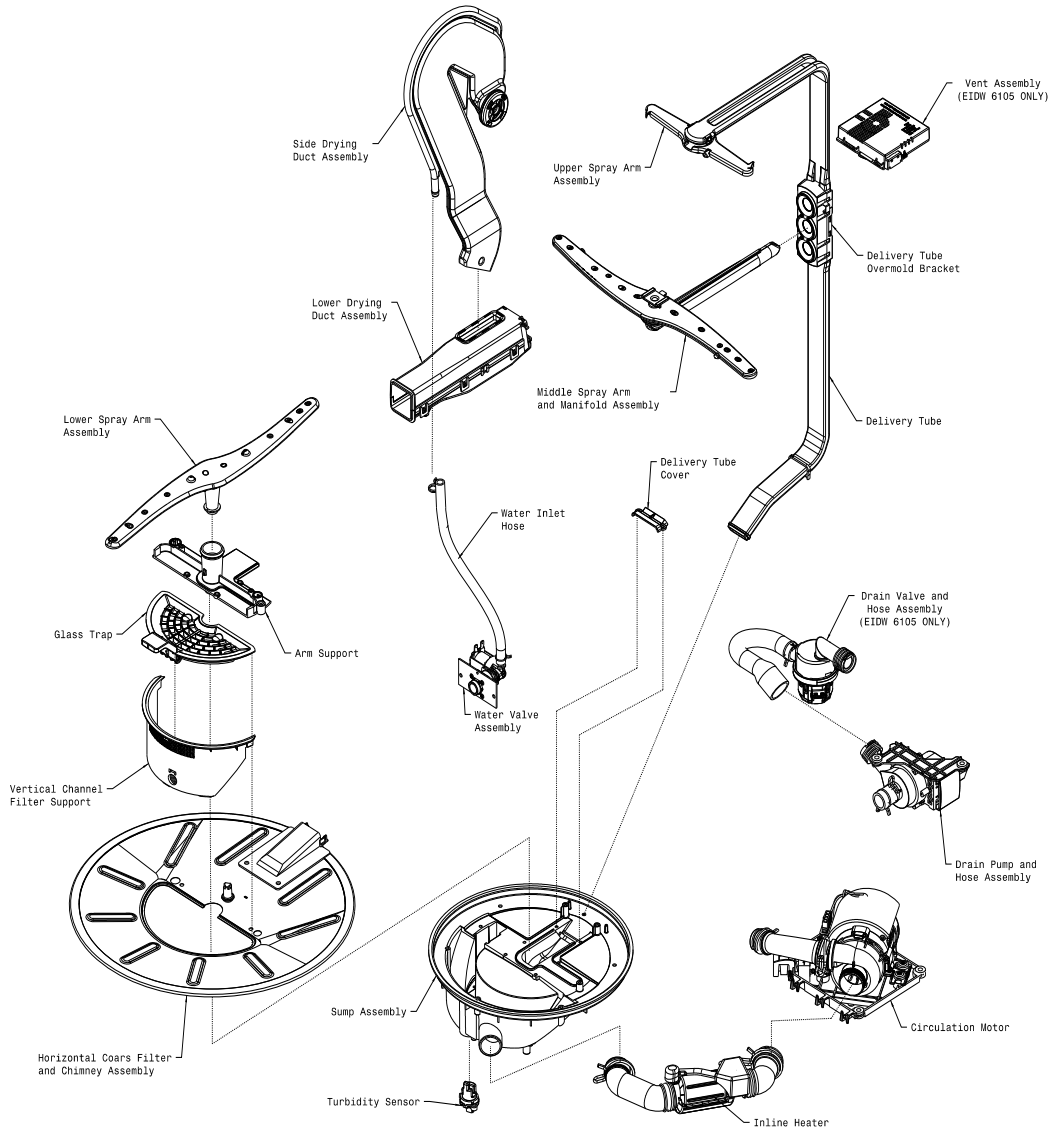


# Exploded View of Wash System



## Standard Dry Air Flow

When the control advances to the “dry” portion of the cycle, the lower fan located in the Lower Drying Duct Assembly is activated. Then, for the EIDW6105 the Vent Assembly located in the top right corner of the tub is activated. The vent fan draws in the air from outside the tub forcing the hot, humid air out the Side Drying Duct Assembly and into the Lower Drying Duct Assembly.

Cool dry outside air is mixed with hot, humid air existing the tub in the Lower Drying Duct Assembly. This lowers the temperature and humidity of the air exiting the unit through the toe and kickplate. The addition of cooler, dryer outside air helps to speed evaporation of water from the hot dishes.

## Pump Assembly

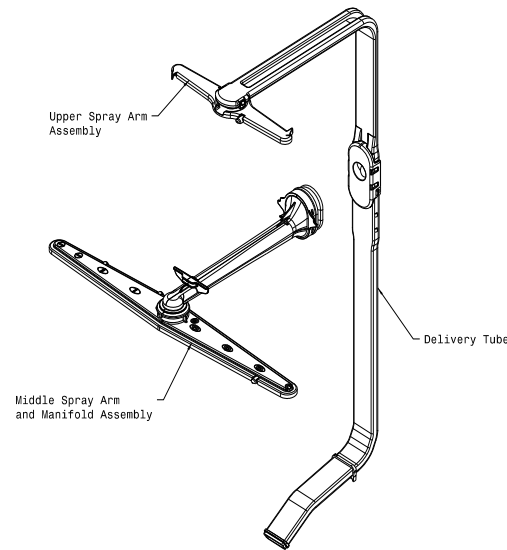
The pump assembly is driven by a permanent split capacitor motor. When looking at the output shaft, rotation is in the counterclockwise direction at 3300RPM when driven by 120V 60Hz AC signal. The motor drives a pump which supplies 100% filtered water at the rate of approximately 19 GPM to all three spray arms at once.

Draining is accomplished by using a small separate synchronous drain pump mounted to the sump. The drain pump is connected to the sump by a small rubber hose with clamps and two mounting screws. A check valve is located at the discharge end of the drain pump.

A high drain hose loop is installed on the side of the unit to help prevent/limit back flow into the dishwasher. No additional such loop is required.

The main pump is removed by disconnecting both attached clamps and hoses, removing the three screws that secure the motor base to the dishwasher base, unlatching the leak detector, and disconnecting the wiring harness connections to the pump assembly.

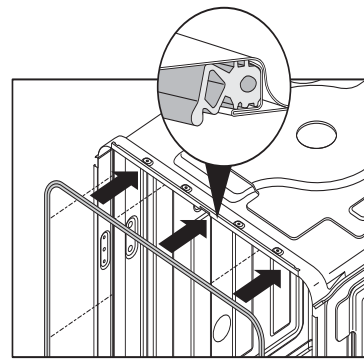
## DELIVERY TUBE AND MIDDLE ARM VARIANTS FOR 5905



## Tub Gasket

The door gasket is pressed into the tub channel for an interference fit. To install the gasket:

1. Locate the center mark on the gasket and press into place.
2. Press the gasket across the header using your thumb.



**\*NOTE:** Take the appropriate safety precautions to avoid cuts from exposed sheet metal on edges and corners

## Product Specifications

### Electrical

Rating ..... 120 Volts, 60Hz  
 Separate Circuit..15 amp min.- 20 amp max.  
 Motor (Amps) ..... .75  
 Heater Wattage ..... 1200  
 Total Amps (load rated) ..... 10.0  
 Water Temps controlled ..... ±5°F  
 To assure success have outer door in place  
 TempAssure (cycle dependent)  
 Main Wash: 129 - 140°F  
 Final Wash: 127 - 150°F  
 Hi-TempAssure: 140°F Wash/150°F Final Rinse  
 SanitizeAssure: 140°F Wash/155°F Final Rinse  
 Hi-Limit Thermostat ..... 200°F (93°C)

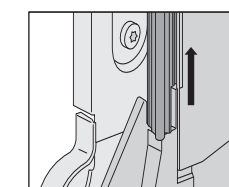
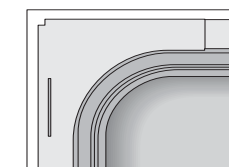
## Error Codes/Description

- Er01 Leak Detector-Water is detected in the base pan
- Er02 Thermistor-Failed thermistor/turbidity module
- Er03 Wash Pump-Wash pump not operating
- Er06 Lower Fan-Improper speed feedback
- Er08 Tactile or touch switch-SW bad or shorted
- Er09 Communications-Communications failure between main user board and power supply
- Er10 Mains Relay-Failure in the mains power relay
- Er13 System Wide-Lost control of State Machine
- Er 15 Fill Valve-Water inlet valve stuck open
- Er16 Float-Float switch stuck/drain clogged

3. Press the gasket while stretching around the corners .

**NOTE:** There should be no wrinkles or puckers in the corners.

4. Place the gasket end at the bottom and then press the gasket in from the bottom up.



# Trouble Shooting Tips

## ⚠ WARNING

### Personal Injury Hazard

Always disconnect the dishwasher from the electrical power source before adjusting or replacing components.

Symptom	Check the Following	Remedy
Dishwasher will not operate when turned on.	<ol style="list-style-type: none"> <li>1. Fuse (blown or tripped).</li> <li>2. 120 VAC supply wiring connection faulty.</li> <li>3. Electronic control board defective.</li> <li>4. No 12 VAC power to control.</li> <li>5. Motor (inoperative).</li> <li>6. Door switch (open contacts).</li> <li>7. Door latch not making contact with door switch.</li> <li>8. Touch pad circuit defective.</li> <li>9. No indicator lamps illuminate when START or OPTIONS are pressed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace fuse or reset breaker.</li> <li>2. Repair or replace wire fasteners at dishwasher junction box.</li> <li>3. Replace control board.</li> <li>4. Replace control board.</li> <li>5. Replace motor/impeller assembly.</li> <li>6. Replace latch assembly.</li> <li>7. Replace latch assembly.</li> <li>8. Replace console assembly.</li> <li>9. Replace console assembly.</li> </ol>
Motor hums but will not start or run.	<ol style="list-style-type: none"> <li>1. Motor (bad bearings).</li> <li>2. Motor stuck due to prolonged non-use.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace motor assembly.</li> <li>2. Rotate motor impeller.</li> </ol>
Motor trips out on internal thermal overload protector.	<ol style="list-style-type: none"> <li>1. Improper voltage.</li> <li>2. Motor windings shorted.</li> <li>3. Glass or foreign items in pump.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check voltage.</li> <li>2. Replace motor/impeller assembly.</li> <li>3. Clean and clear blockage.</li> </ol>
Dishwasher runs but will not heat.	<ol style="list-style-type: none"> <li>1. Heater element (open).</li> <li>2. Electronic control board defective.</li> <li>3. Wiring or terminal defective.</li> <li>4. Hi-Limit thermostat defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace heater element.</li> <li>2. Replace control board.</li> <li>3. Repair or replace.</li> <li>4. Replace thermostat.</li> </ol>
Detergent cover will not latch or open.	<ol style="list-style-type: none"> <li>1. Latch mechanism defective.</li> <li>2. Electronic control board defective.</li> <li>3. Wiring or terminal defective.</li> <li>4. Broken spring(s).</li> <li>5. Defective actuator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace dispenser.</li> <li>2. Replace control board.</li> <li>3. Repair or replace.</li> <li>4. Replace dispenser.</li> <li>5. Replace dispenser.</li> </ol>
Dishwasher will not pump out.	<ol style="list-style-type: none"> <li>1. Drain restricted.</li> <li>2. Electronic control board defective.</li> <li>3. Defective drain pump.</li> <li>4. Blocked impeller.</li> <li>5. Open windings.</li> <li>6. Wiring or terminal defective.</li> <li>7. Defective Drain Valve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear restrictions.</li> <li>2. Replace control board.</li> <li>3. Replace pump.</li> <li>4. Check for blockage, clear.</li> <li>5. Replace pump assembly.</li> <li>6. Repair or replace.</li> <li>7. Repair or replace.</li> </ol>
Dishwasher will not fill with water.	<ol style="list-style-type: none"> <li>1. Water supply turned off.</li> <li>2. Defective water inlet fill valve.</li> <li>3. Check fill valve screen for obstructions.</li> <li>4. Defective float switch.</li> <li>5. Electronic control board defective.</li> <li>6. Wiring or terminal defective.</li> <li>7. Float stuck in “UP” position.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn water supply on.</li> <li>2. Replace water inlet fill valve.</li> <li>3. Disassemble and clean screen.</li> <li>4. Repair or replace.</li> <li>5. Replace control board.</li> <li>6. Repair or replace.</li> <li>7. Clean or replace float.</li> </ol>

Dishwasher water siphons out.	<ol style="list-style-type: none"> <li>1. Drain hose (high) loop too low.</li> <li>2. Drain line connected to a floor drain not vented.</li> <li>3. Drain valve or pump stuck open.</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair to proper <b>32-inch minimum height</b>.</li> <li>2. Install air gap at counter top.</li> <li>3. Repair or replace.</li> </ol>
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Detergent left in dispenser.	<ol style="list-style-type: none"> <li>1. Detergent allowed to stand too long in dispenser.</li> <li>2. Dispenser wet when detergent was added.</li> <li>3. Detergent cover held closed or blocked by large dishes.</li> <li>4. Improper incoming water temperature to properly dissolve detergent.</li> <li>5. Spray arm blocked.</li> <li>6. Is water getting into unit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Instruct customer/user.</li> <li>2. Instruct customer/user.</li> <li>3. Instruct customer/user on proper loading of dishes.</li> <li>4. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergents.</li> <li>5. Instruct customer/user.</li> <li>6. Check fill valve repair or replace.</li> </ol>
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Note: See "Detergent cover will not open."

P/N: 154676604



EIDW 6105 & 5905

This information is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Electrolux Home Products North America cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this Service Data Sheet.

### Operation

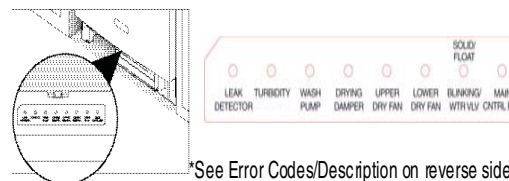
- Starting a Cycle ...** Open door, select the cycle and options; then press the "START/CANCEL" key. The LED over the selected cycle key will then flash. Close the door and the cycle will begin.
- Delay Start .....** Open door, select the cycle and options; then press the "DELAY" key. Each press of the key will increase the delay time by 2 hours as it scrolls between the 3 options (2, 4, and 6 hours).
- Selecting a new cycle or option ....** Open door, select the desired cycle and options; then press the "START/CANCEL" key and the cycle will begin.
- Canceling a cycle .** Open door, select the "START/CANCEL" key then close the door. The unit will then drain and turn off.
- Locking Controls .** Open door and hold down the "air dry" key for 3 seconds. The "LOCKED" LED will illuminate and the keys will be unresponsive. To unlock the control hold the "AIR DRY" key down for 3 seconds - normal function will resume.

### Display Codes (LED)

- CLEAN .....** The LED labeled "CLEAN" will illuminate when the cycle is complete.
- SANTIZED.....** The LED labeled "SANITIZE" will illuminate when sanitization criteria has been met.
- CHILD LOCK .....** The LED labeled "LOCKED" will illuminate when the controls are in the locked state (hold Air Dry button for 3 seconds with door unlatched) to enter and exit.
- RINSE AGENT LOW** The LED labeled "LOW RINSE" will illuminate when rinse agent level is low.
- LED status indicators located in the right of the keypad**
- DELAYED START ..** One of 3 LEDs (labeled 2 HR, 4 HR, 6 HR) will illuminate to show the selected time delay

### Component Error LED Indication

To gain access to the Control Housing Assembly, remove kickplate assembly. LED indicates which component is the source of the error.



#### Wire Color Codes

BK.....	Black	Y.....	Yellow	OR.....	Orange
BLUE.....	Blue	GRN.....	Green	BRN.....	Brown
PINK.....	Pink	PURP/VIO.....	Purple	R.....	Red
W or WHT.....	White				

To enable the Relay Test mode for checking components perform the following steps in sequence:

1. If a wash cycle is running, slowly open the door, press the "START/CANCEL" key to cancel operation, and then close the door to allow it to drain.
2. Re-open the door.
3. Press and hold the "Hi-Temp" key for at least 3 seconds to reset the dishwasher.
4. Simultaneously press "Sanitize" and "Delay" keys.
5. Press the "Rinse" key to select Relay Test Mode.
6. Check the electrical output to any of the desired components by pressing the assigned key as listed below. One press will energize and the next press of the same key will de-energize the component. Note: that the door must be closed to energize component outputs.
7. Press and hold the "Hi-Temp" key for at least 3 seconds to exit the test mode and reset the Dishwasher.

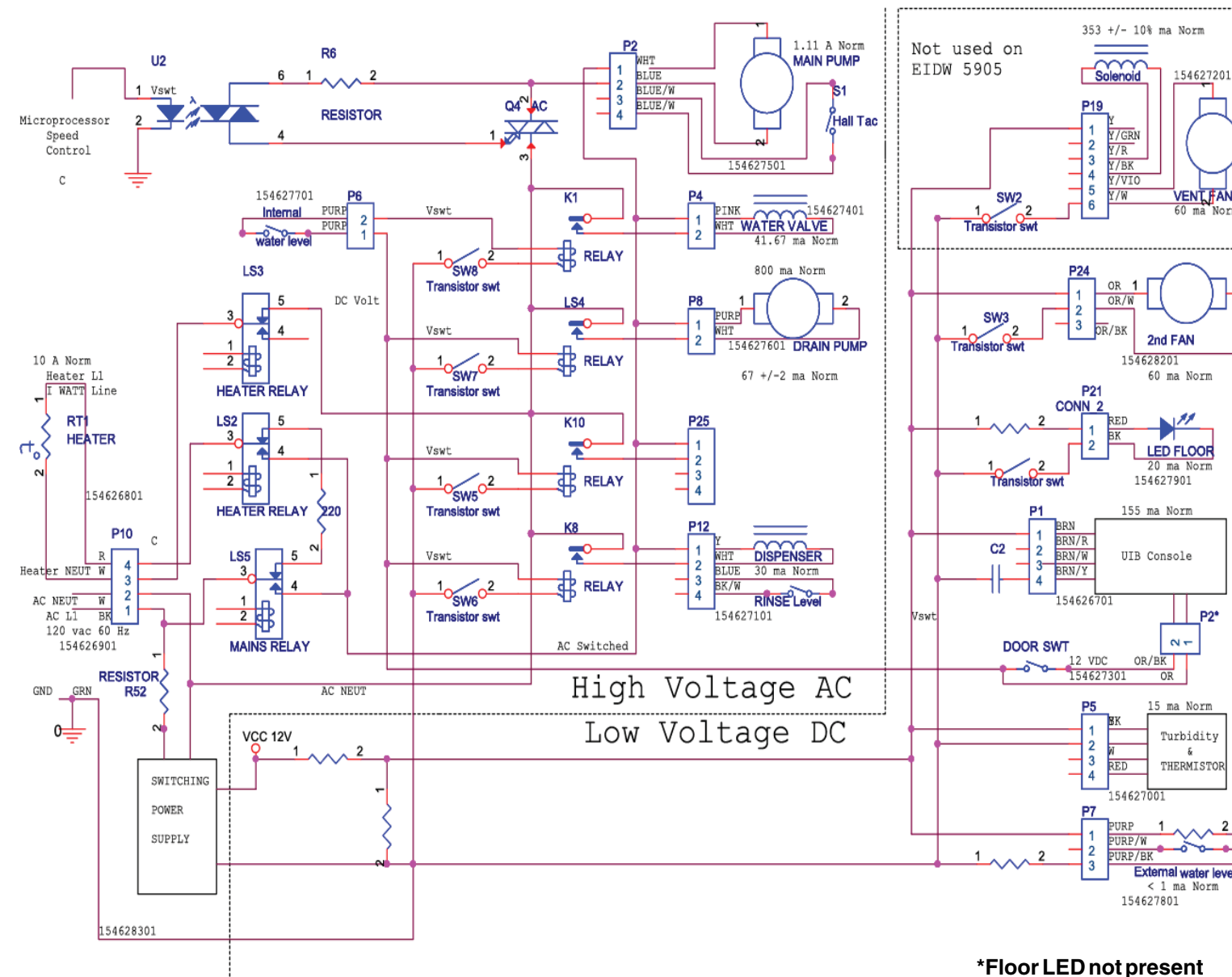
#### EIDW6105

- "Favorite" - Heater (energize only after assuring water in sump)
- "Auto" - Wash Pump
- "Heavy" - Water Valve
- "Normal" - Drain Motor
- "Rinse" - Clean Light
- "Hi-Temp" - Press repeatedly to step through diagnostic LEDs on baseboard. EIDW6105 units will simultaneously run the upper fan. Note: Do Not hold key for extended time - see step 7.
- "Sanitize" - Lower Fan, then for EIDW6105 units - 3 second delay then Upper Fan and Damper.
- "Air Dry" - Dispenser

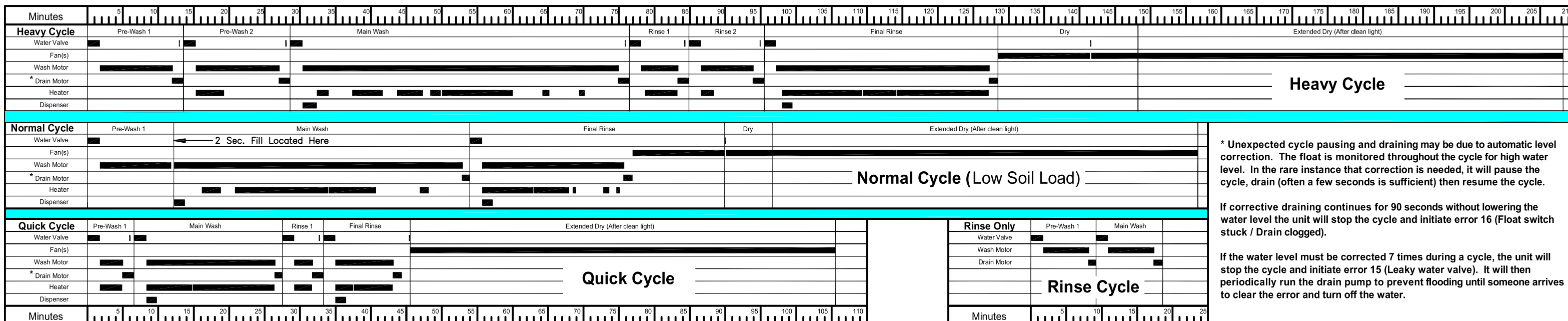
#### EIDW5905

- "Auto" - Wash Pump
- "Heavy" - Water Valve
- "Normal" - Drain Motor
- "Quick" - Heater (energize only after assuring water in sump)
- "Sanitize" - Lower Fan, then for 6105 units - 3 second delay then Upper Fan And Damper.
- "Air Dry" - Dispenser

### Wiring Diagram



### Cycle Selection Options



\* Unexpected cycle pausing and draining may be due to automatic level correction. The float is monitored throughout the cycle for high water level. In the rare instance that correction is needed, it will pause the cycle, drain (often a few seconds is sufficient) then resume the cycle.

If corrective draining continues for 90 seconds without lowering the water level the unit will stop the cycle and initiate error 16 (Float switch stuck / Drain clogged).

If the water level must be corrected 7 times during a cycle, the unit will stop the cycle and initiate error 15 (Leaky water valve). It will then periodically run the drain pump to prevent flooding until someone arrives to clear the error and turn off the water.