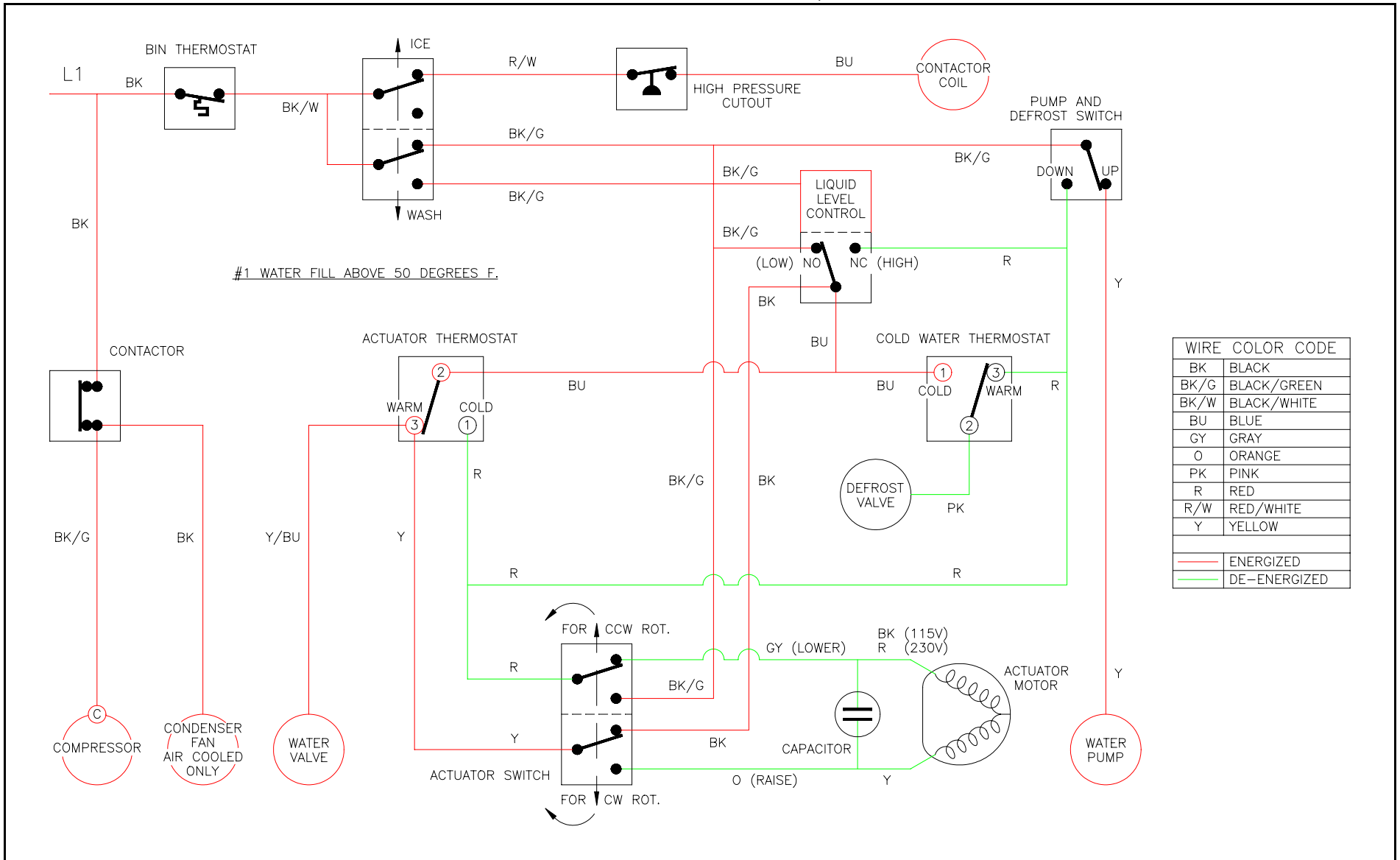


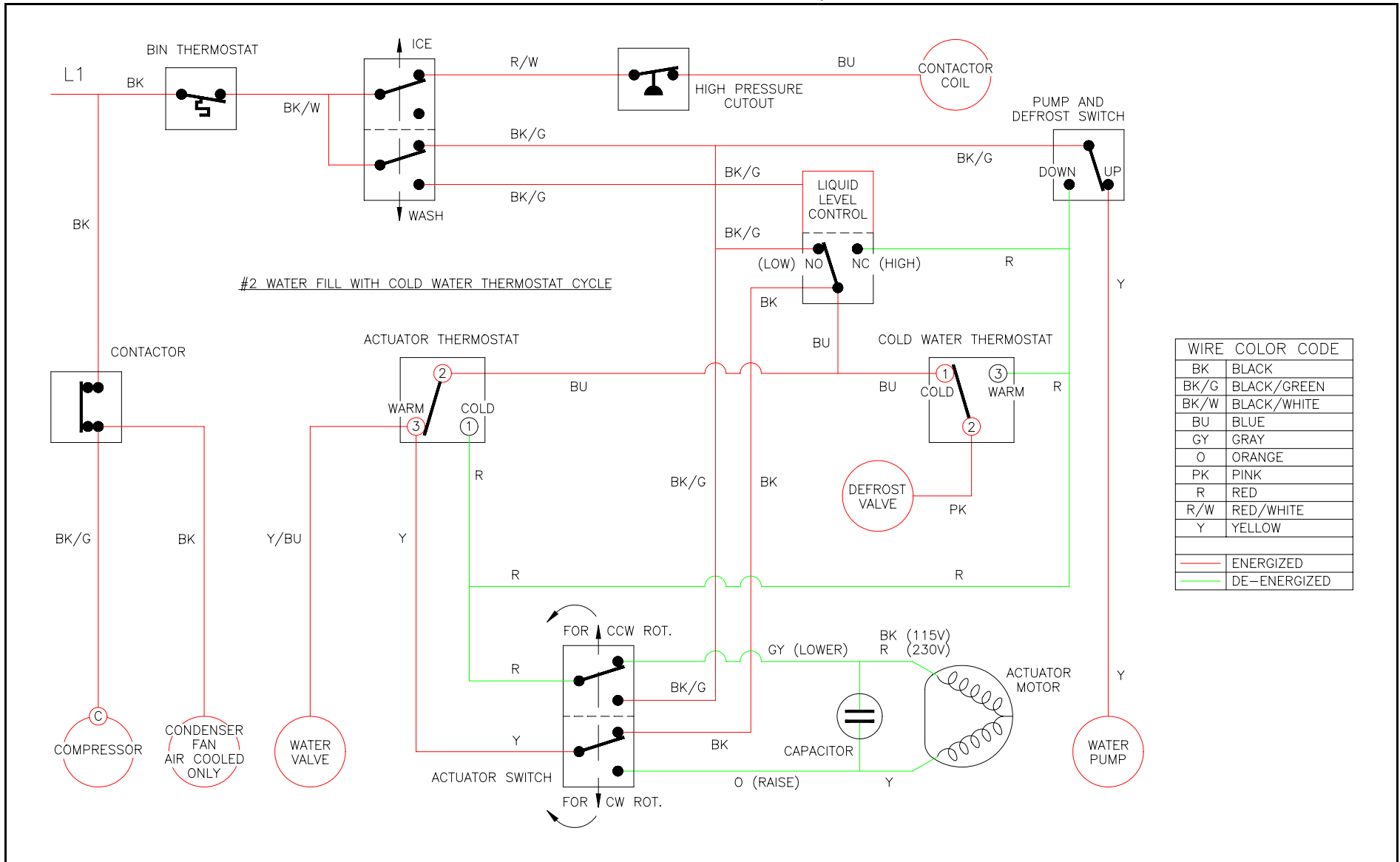
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #1 Water Fill—Evaporator Temperature Above 50°F.**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate closed (pump & defrost switch up)  
 Liquid level control is low, actuator thermostat warm—power to the water valve. Pump and defrost switch up (water plate closed)—power to the water pump. Cold water thermostat warm.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS

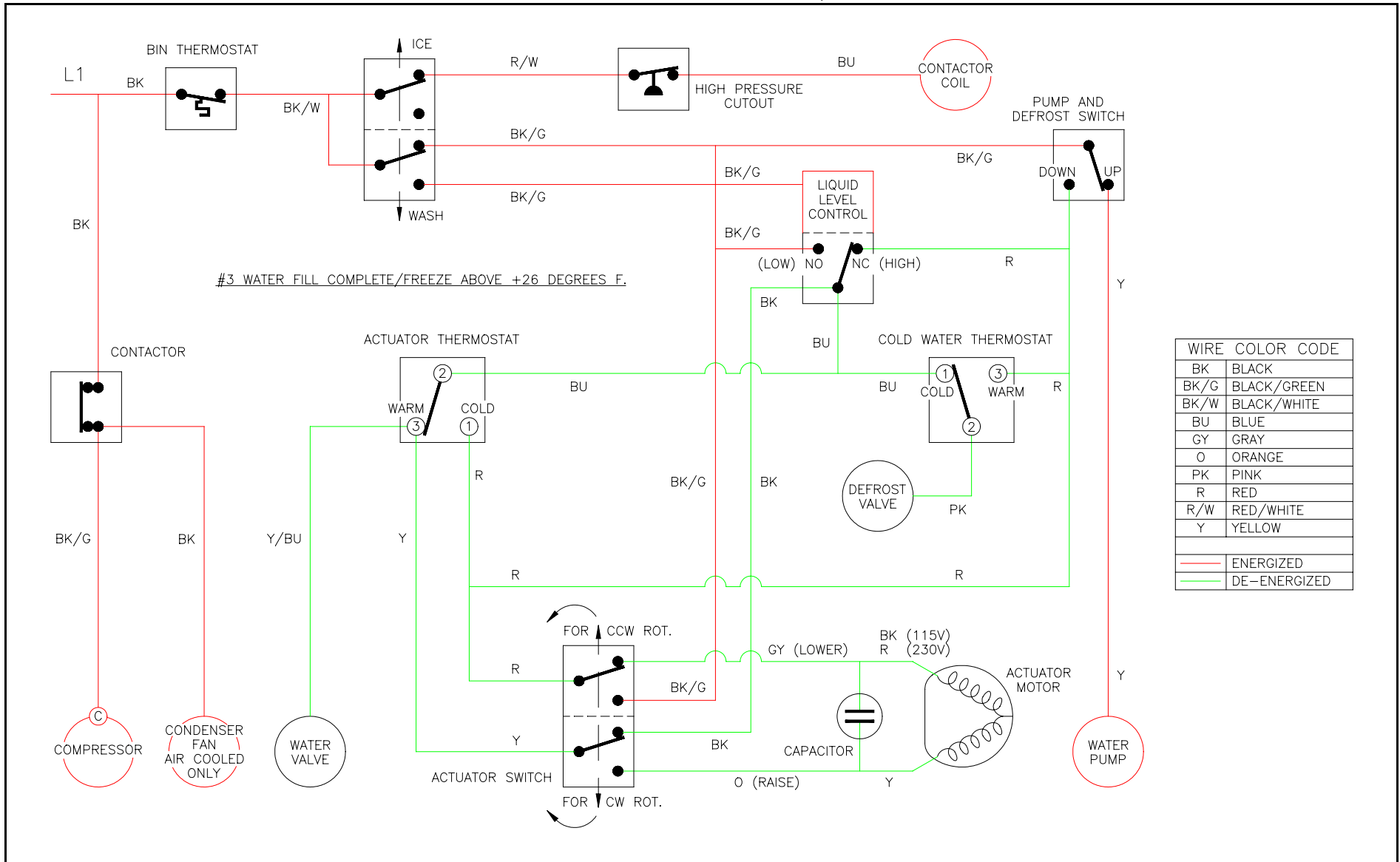


**Diagram #2 Water Fill—Cold Water Thermostat Cycle (Evaporator Temperature Below 50°F.)**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate closed (pump & defrost switch up)

Liquid level control is low, actuator thermostat warm—power to the water valve. Pump and defrost switch up (water plate closed)—power to the water pump. Cold water thermostat switches cold—power to defrost valve.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS

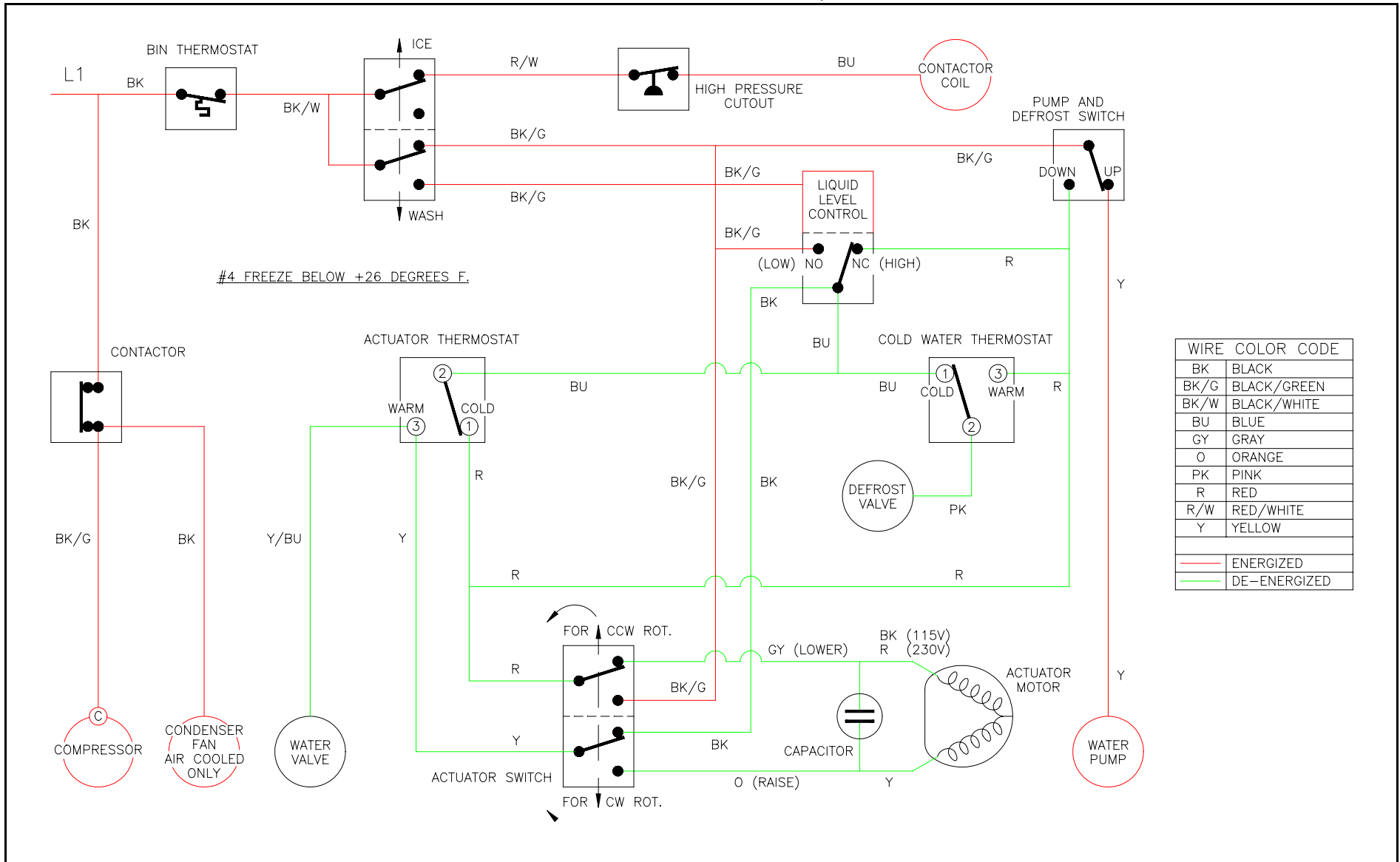


**Diagram #3 Water Fill Complete—Evaporator Temperature Above 26°F.)**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate closed (pump & defrost switch up)

Liquid level control high—power off to the water valve. Pump and defrost switch up (water plate closed)—power to the water pump. Actuator thermostat is warm.

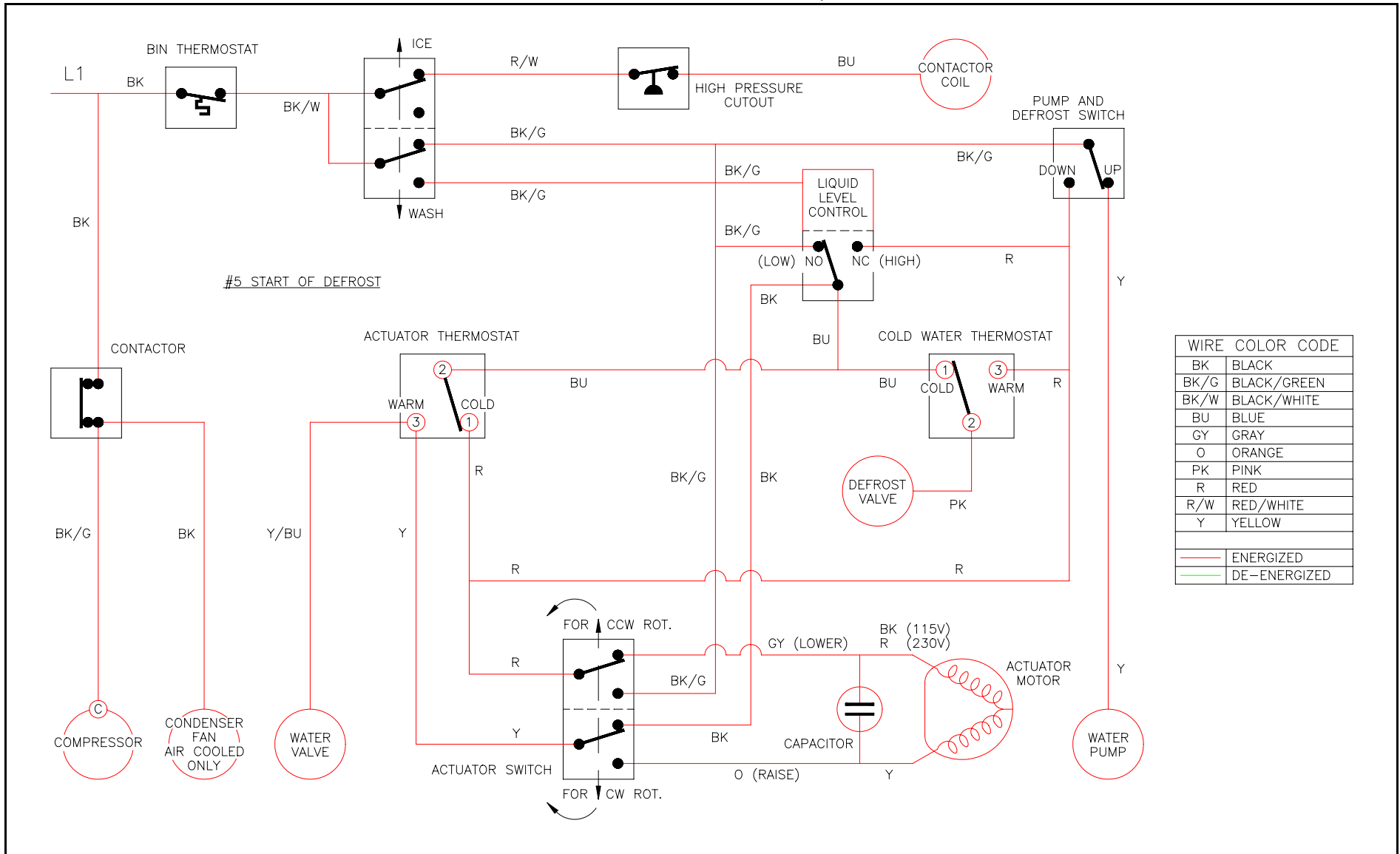
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #4 Ice Forming—Evaporator Temperature Below 26°F.)**

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate closed (pump & defrost switch up)  
 Liquid level control high—power off to the water valve. Pump and defrost switch up (water plate closed)—power to the water pump. Actuator thermostat switches cold.

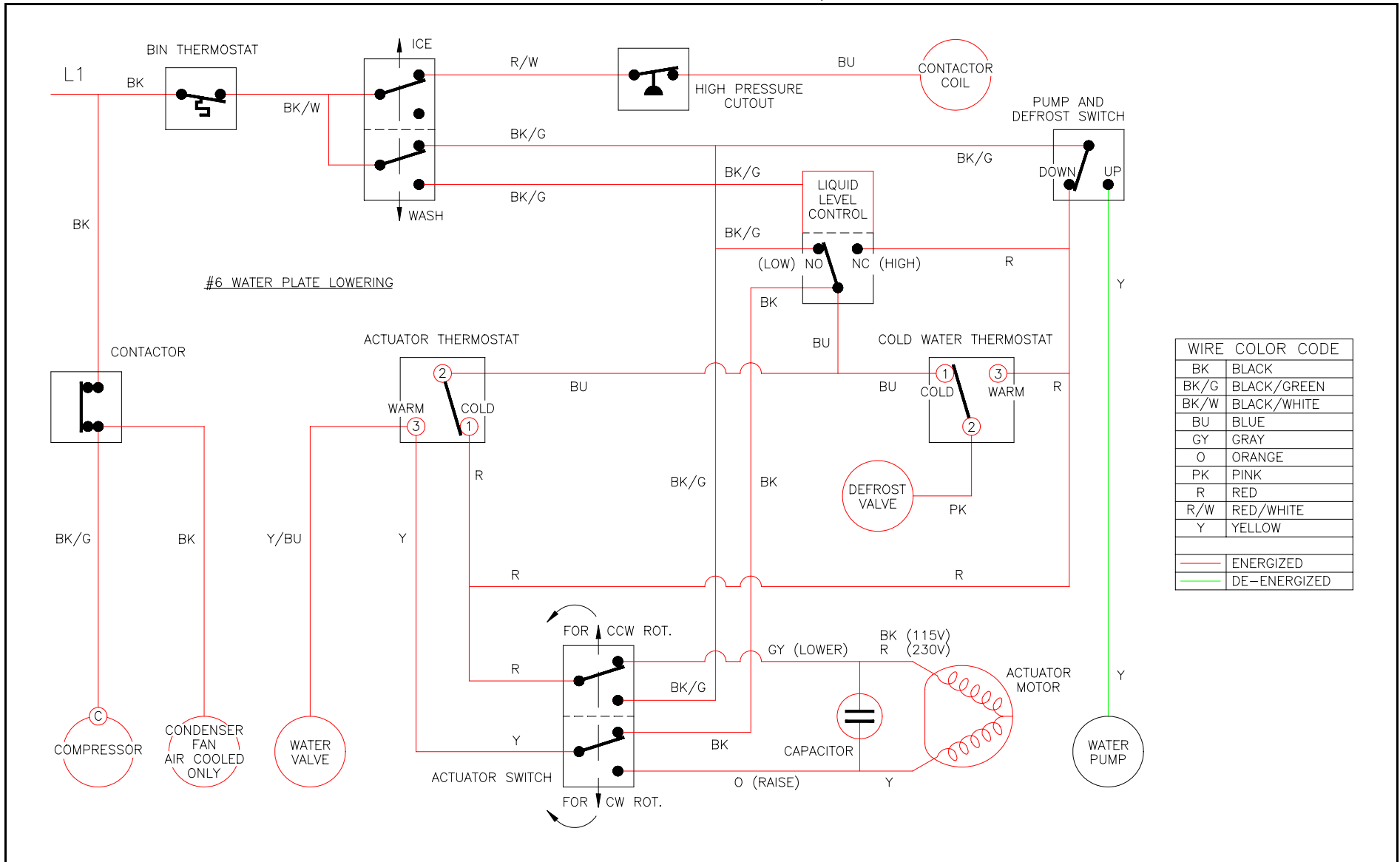
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #5 Defrost- Start of Defrost**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate closed (pump & defrost switch up)  
Liquid level control switches to low—triggers defrost. Cold water thermostat cold—power to defrost valve. Actuator switch up—power to water valve. Actuator thermostat cold—power to actuator motor (motor turns CCW). Pump and defrost switch up (water plate closed)—power to water pump.

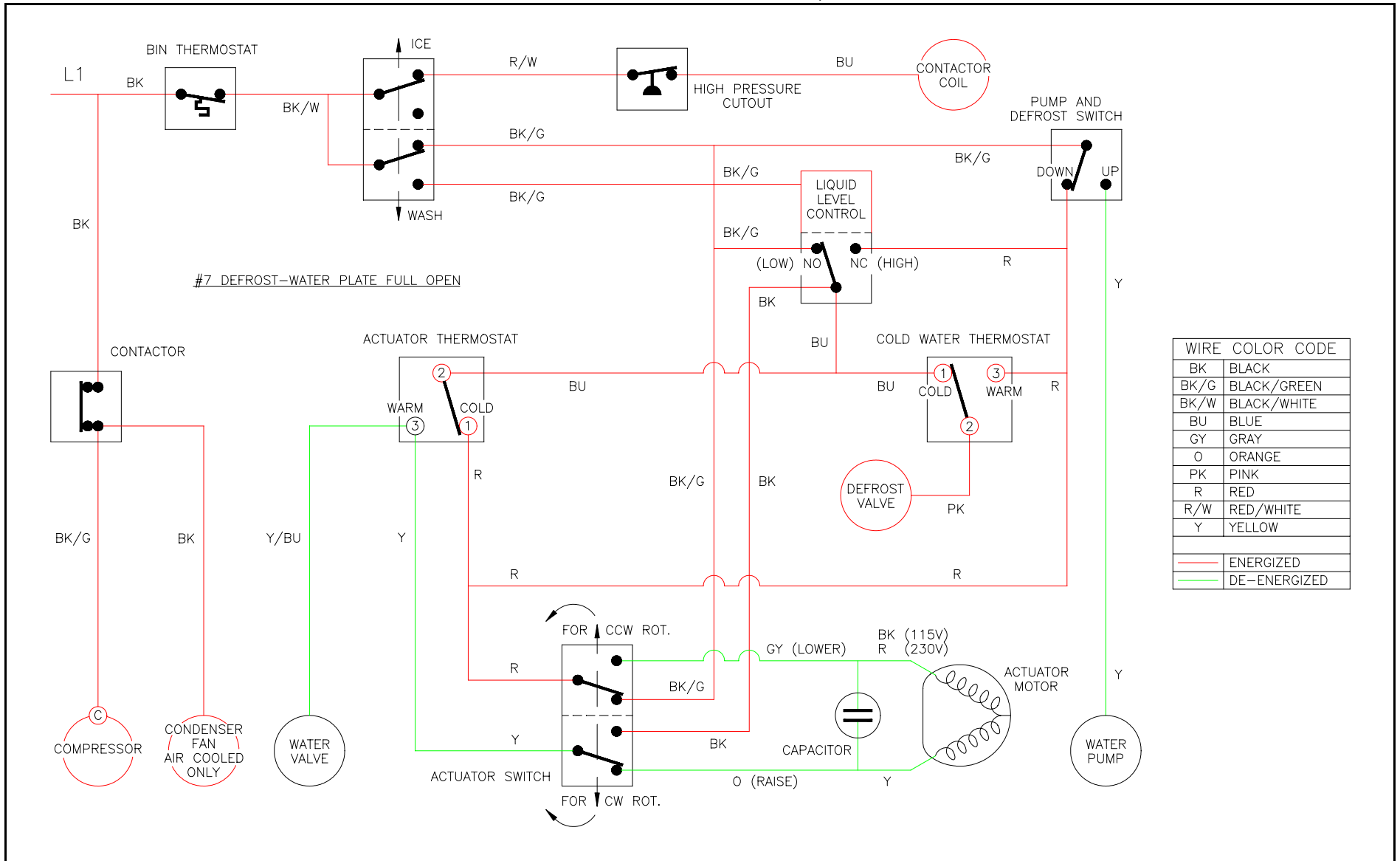
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #6 Defrost- Water Plate Lowering**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate open (pump & defrost switch down)  
 Liquid level control switch low. Cold water thermostat cold—power to defrost valve. Actuator switch up—power to water valve. Actuator thermostat cold—power to actuator motor (actuator switch up, motor rotation CCW). Pump and defrost switch down (water plate open)—no power to water pump.

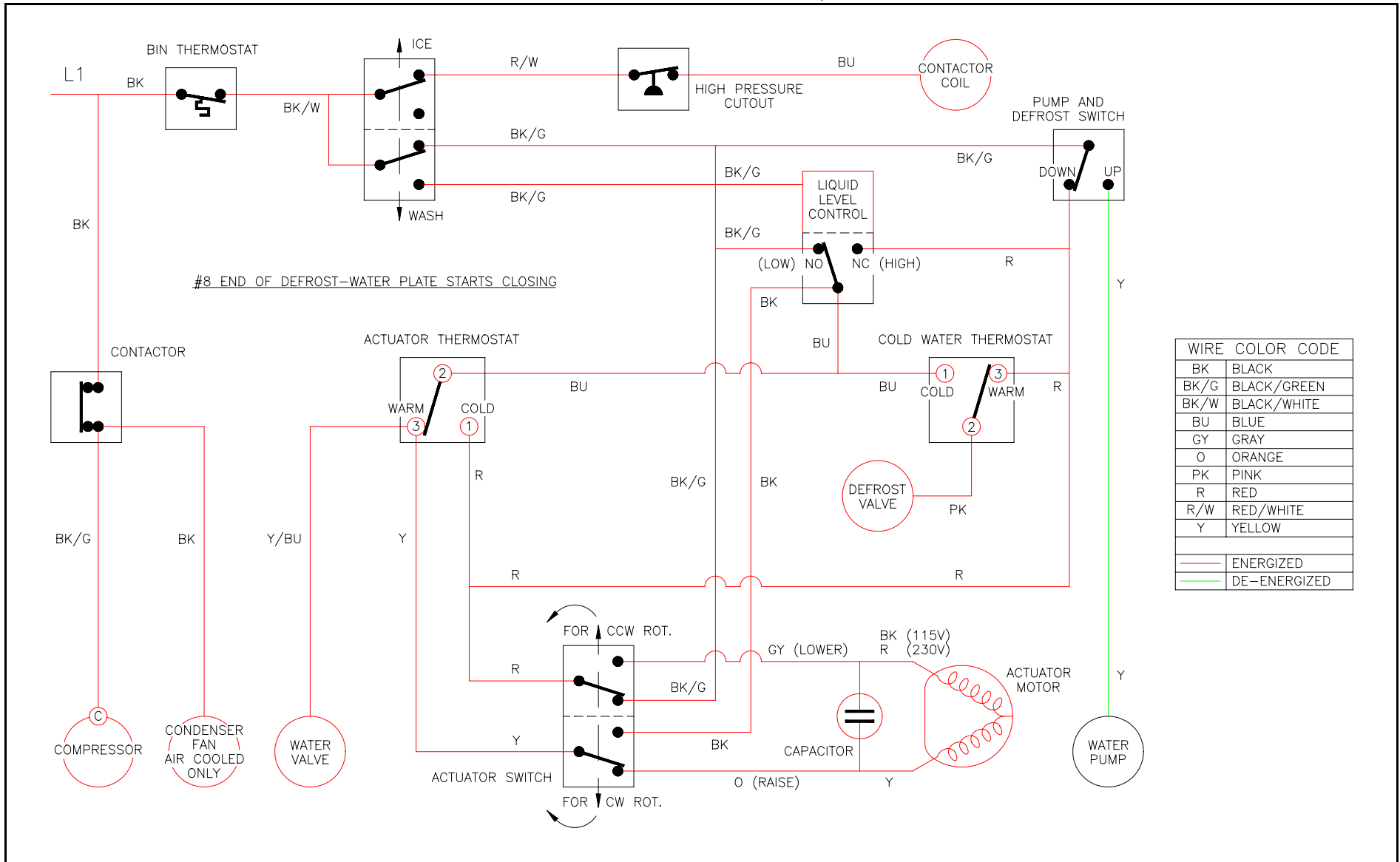
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #7 Defrost- Water Plate Full Open**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate open (pump & defrost switch down)  
 Liquid level control switch low. Cold water thermostat cold—power to defrost valve. Actuator switch down—power off to actuator motor and water valve. Actuator thermostat cold. Pump and defrost switch down (water plate open)—no power to water pump.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS

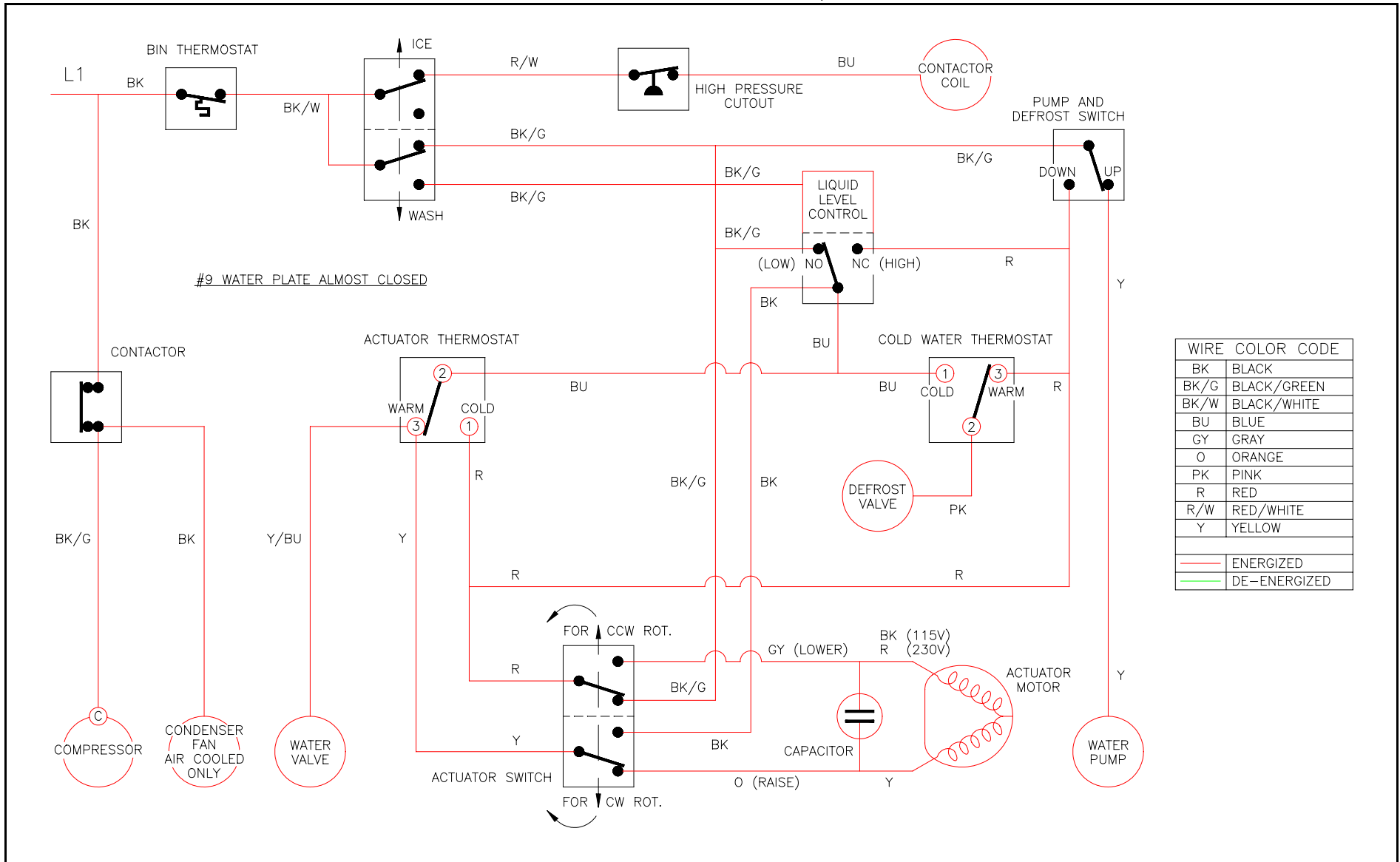


**Diagram #8 End of Defrost- Water Plate Closing**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate open (pump & defrost switch down) Liquid level control switch low. Cold water thermostat warm—power to defrost valve. Actuator thermostat switch warm—power to water valve and actuator motor (actuator switch down, motor rotation CW). Pump and defrost switch down (water plate open)—no power to water pump.



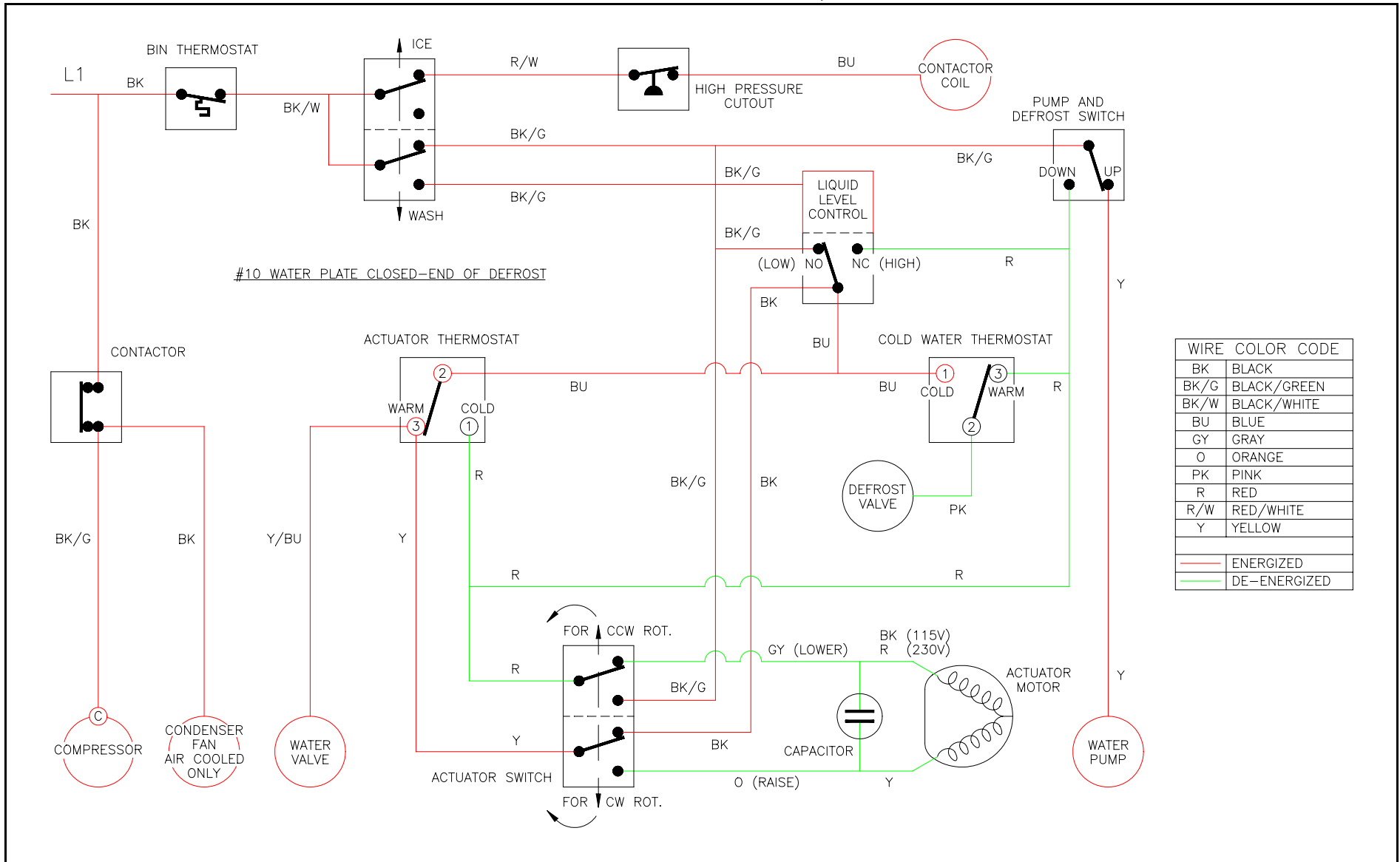
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #9 Defrost Ending- Water Plate Almost Closed**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate almost closed (pump & defrost switch up) Liquid level control switch low. Cold water thermostat warm—power to defrost valve. Actuator thermostat switch warm—power to water valve and actuator motor (actuator switch down, motor rotation CW). Pump and defrost switch up (water plate almost closed)—power to water pump.

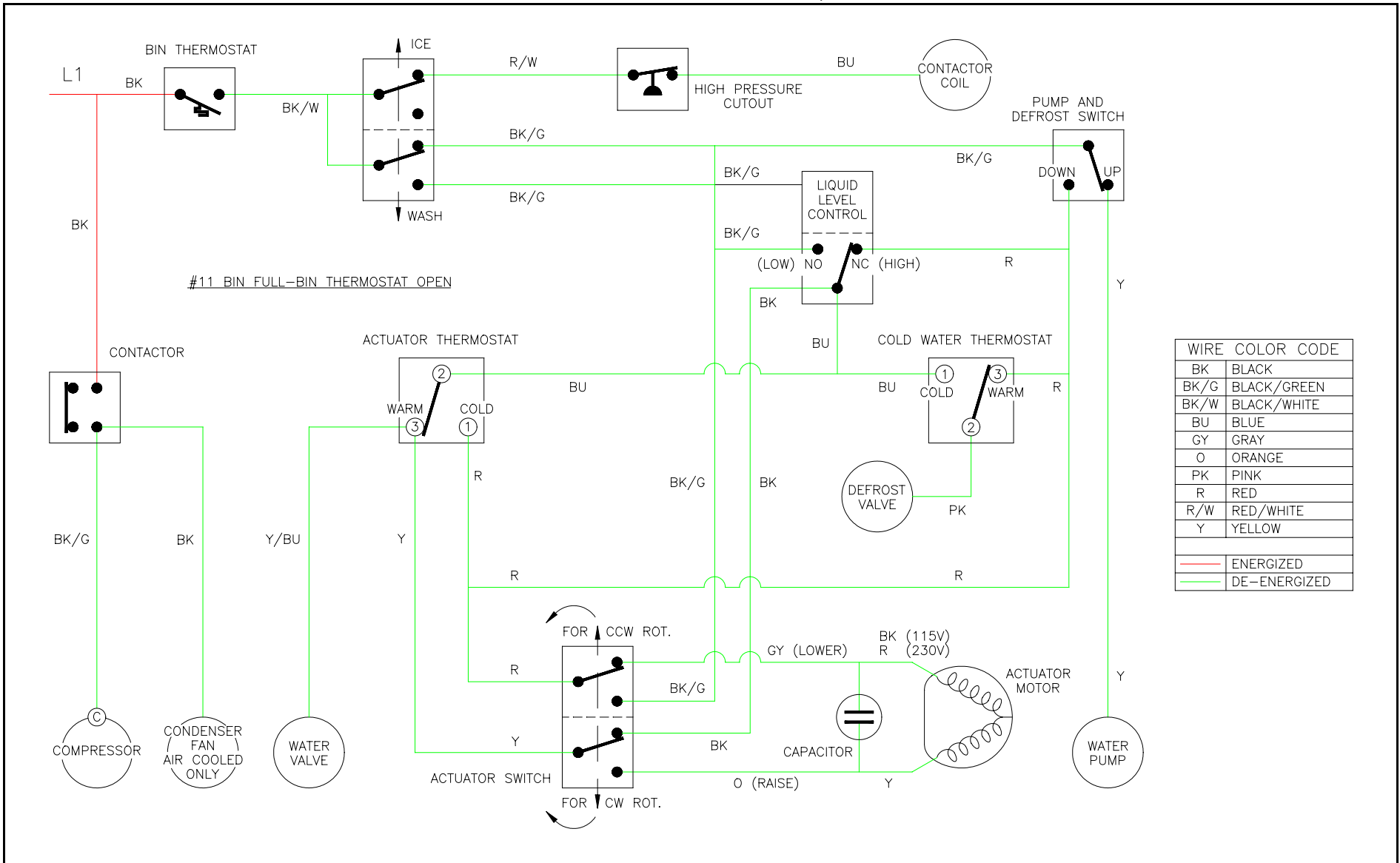
# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #10 End of Defrost- Water Plate Closed**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate closed (pump & defrost switch up)  
 Liquid level control switch low. Actuator thermostat switch warm—power to water valve. Cold water thermostat warm—no power to defrost valve.  
Actuator switch up—power off to actuator motor. Pump and defrost switch up (water plate closed)—power to water pump.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS

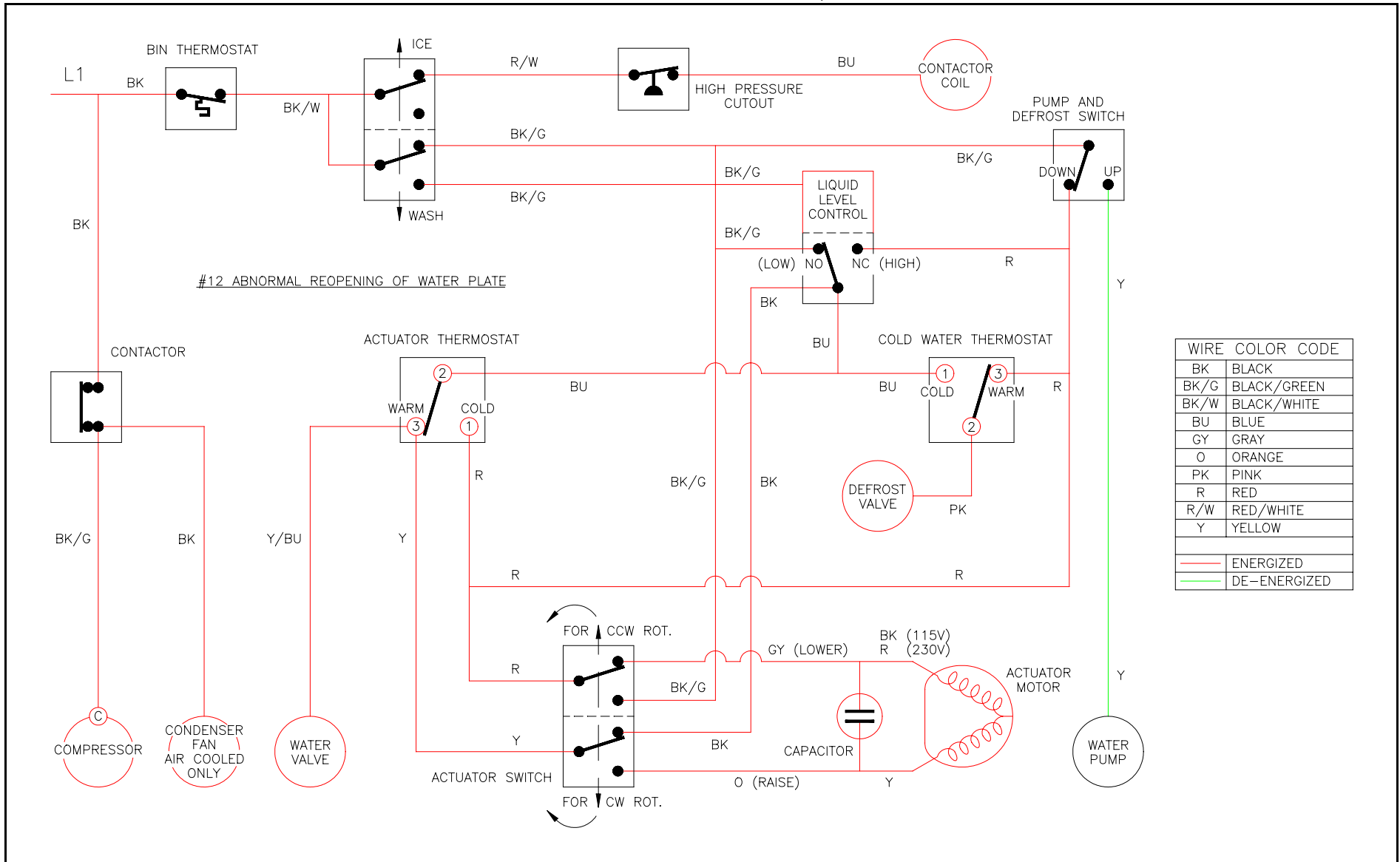


**Diagram #11 Bin Full- Bin Thermostat Open**

Bin thermostat open; Switch in "ice" position; Contactor open; Water plate closed or open

Bin thermostat opens when ice contacts bulb tube—no power to components.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS



**Diagram #12 Abnormal Opening of Water Plate**

Bin thermostat closed; Switch in "ice" position; Contactor closed; Water plate cannot close (pump & defrost switch down)  
 Liquid level control switch low. Actuator thermostat switch warm—power to water valve. Cold water thermostat warm—power to defrost valve.  
Actuator switch is pushed up—but power is maintained to actuator motor by pump and defrost switch. Pump and defrost switch cannot be pushed up (water plate obstructed)—red circuit remains energized and water plate re-opens. No power to water pump.

# SEQUENTIAL CIRCUIT DIAGRAM – GB450, GB650 & GT550 MODELS

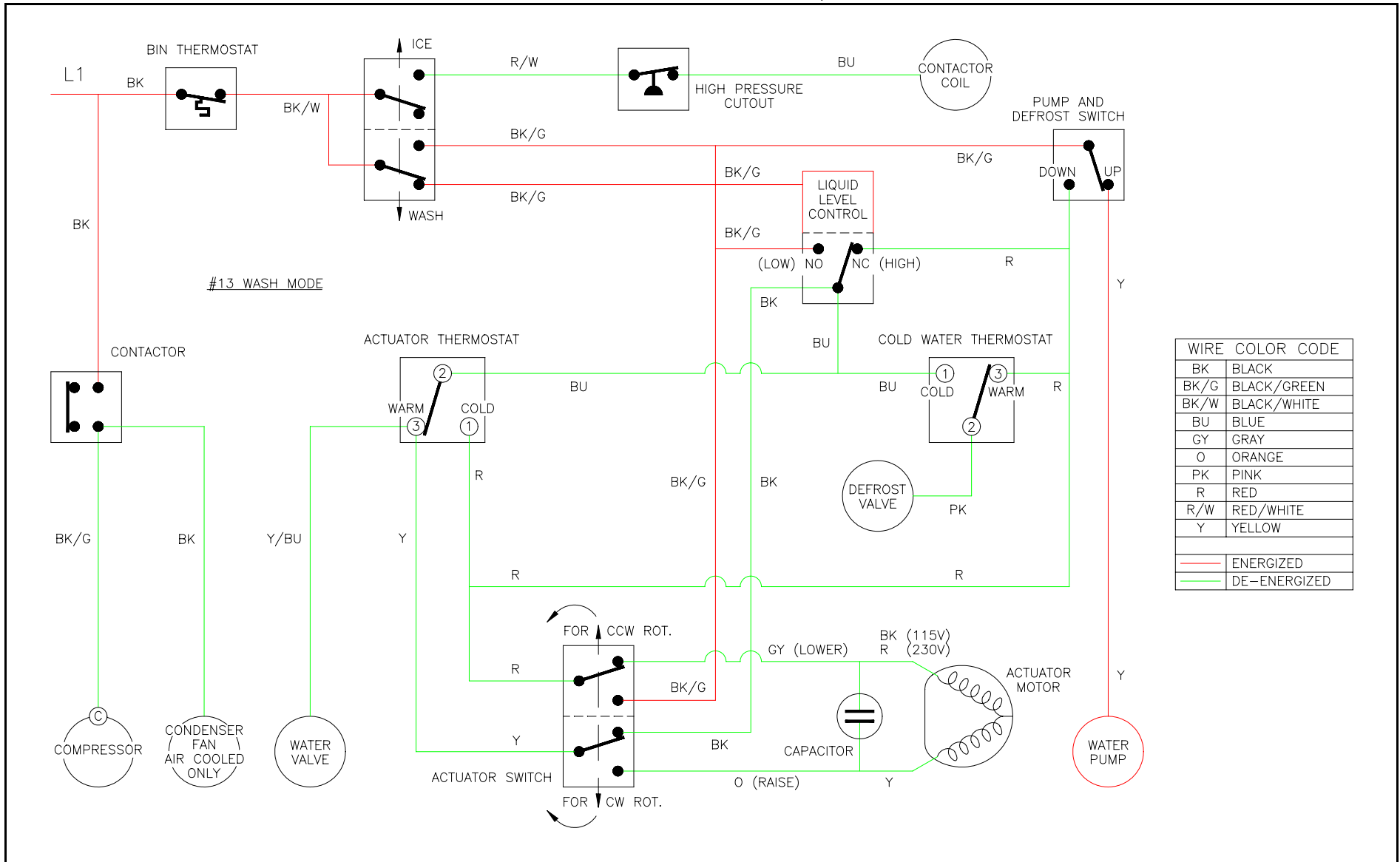


Diagram #13 Wash Mode

Bin thermostat closed; Switch in "wash" position; Contactor open; Water plate closed (pump & defrost switch up)  
 Liquid level control switch high. Actuator thermostat switch warm—power to water valve. Cold water thermostat warm—no power to defrost valve.  
 Actuator switch up—power off to actuator motor. Pump and defrost switch up (water plate closed)—power to water pump. If liquid level control switch low, power to water valve.