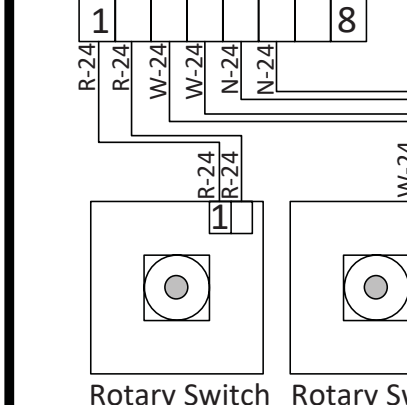
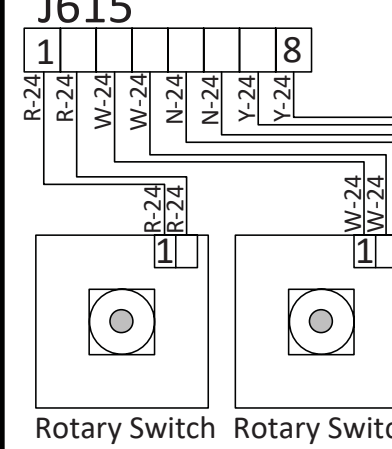
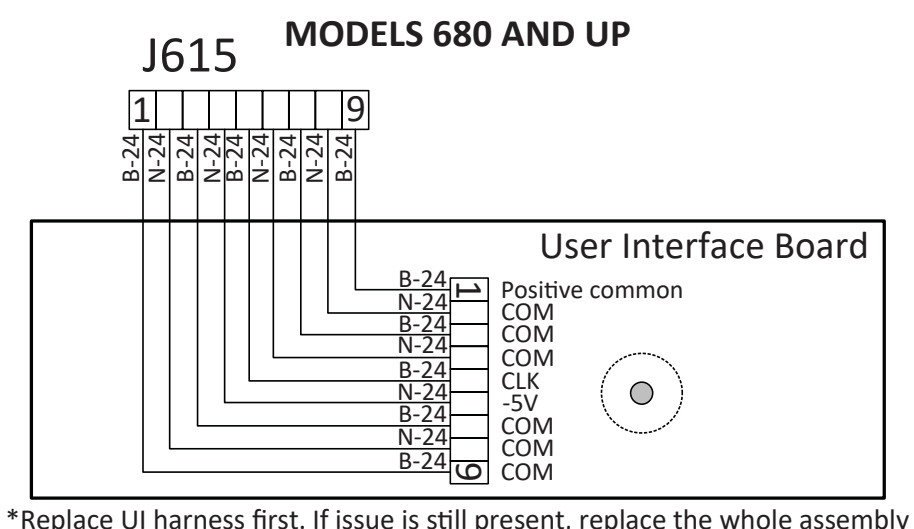


Binary Display Fault Chart						
Fault # displayed on 7-segment display	Fault # displayed in binary format using cycle status lights					
	Filled circles indicate light on					
1	○	○	○	○	●	○
2	○	○	○	○	●	○
3	○	○	○	○	●	○
4	○	○	○	○	○	○
5	○	○	○	○	○	○
6	○	○	○	○	○	○
7	○	○	○	○	○	○
8	○	○	○	○	○	○
9	○	○	○	○	○	○
10	○	○	○	○	○	○
11	○	○	○	○	○	○
12	○	○	○	○	○	○
13	○	○	○	○	○	○
14	○	○	○	○	○	○
15	○	○	○	○	○	○
16	○	○	○	○	○	○
17	○	○	○	○	○	○
18	○	○	○	○	○	○
19	○	○	○	○	○	○
20	○	○	○	○	○	○
21	○	○	○	○	○	○
22	○	○	○	○	○	○
23	○	○	○	○	○	○
24	○	○	○	○	○	○
25	○	○	○	○	○	○
26	○	○	○	○	○	○
27	○	○	○	○	○	○
28	○	○	○	○	○	○
29	○	○	○	○	○	○
30	○	○	○	○	○	○
31	○	○	○	○	○	○
32	○	○	○	○	○	○



- Wire Color Key**  
XX-YY  
XX:Wire color  
YY:Wire gauge
- 
- |                      |          |
|----------------------|----------|
| W:White              | C:Brown  |
| B:Black              | R:Red    |
| S:Grey               | P:Pink   |
| N:Blue               | V:Purple |
| Y:Yellow             | O:Orange |
| G:Green              | T:Tan    |
| GY:Green with Yellow |          |



## TAPE AREA

<small>*Resistance values are read from the leads while disconnected from the control</small>		
<b>Position</b>	<b>Resistance(kΩ)</b>	<b>Voltage</b>
1	0.8	0.7
2	1.9	1.5
3	3.7	2.2
4	6.7	2.9
5	13.5	3.7
6	40.5	4.5
Position 1 is to the far left. Turn towards the right to advance pos		

MODELS 200-490 ONLY		MODELS 680 AND UP	
Inches of Water	Voltage	Inches of Water	Voltage
Empty	0.4	Empty	0.4
1"	0.7	1"	0.8
2"	1.0	2"	1.0
3"	1.4	3"	1.2
4"	1.6	4"	1.4
5"	1.8	5"	1.6
6"	2.0	6"	1.8
7"	2.2	7"	2.0
8"	2.4	8"	2.2
9"	2.6	9"	2.4
10"	2.8	10"	2.6
11"	3.0	11"	2.8
12"	3.2	12"	3.0

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⚠

WARNING

⚡

Electrical Shock Hazard

Death or serious injury can result from failure to follow these instructions.

- Service by a qualified service technician only.
- Disconnect power before servicing this product.
- Reconnect all grounding devices after service.
- Replace all parts and panels before operating.

• This machine must be electrically grounded through the grounding lead in the 3-prong power cord. The cord must be plugged into a properly installed and grounded appliance outlet. If local codes require an additional ground connection, use an 18-gauge or larger wire to connect the washer cabinet to an established ground. In all case the grounding method must comply with all local codes and ordinances.

⚠

ADVERTENCIA

⚡

Riesgo de Descarga Eléctrica

Usted puede morir o sufrir lesiones graves si no siguen estas instrucciones.

- El servicio técnico sólo debe ser realizado por un técnico calificado.
- Desconecte el suministro de corriente antes de realizar el servicio técnico.
- Luego del servicio técnico, vuelva a conectar todos los dispositivos de conexión a tierra.
- Reemplace todas las piezas y paneles antes de utilizar.

• Cette machine doit être mise à la terre par la broche de mise à la terre du cordon d'alimentation à 3 broches. Le cordon doit être branché dans une prise d'alimentation pour un appareil électroménager correctement installée et mise à la terre. Si les codes locaux demandent une connexion de mise à la terre supplémentaire, utilisez un fil de calibre 18 ou supérieur pour connecter le cabinet de la laveuse à une mise à la terre établie. Dans tous les cas, la méthode de mise à la terre doit être conforme à tous les codes et ordonnances locaux.

⚠

AVERTISSEMENT

⚡

Risque de choc électrique

Vous pouvez être tué ou gravement blessé si vous ne suivez pas ces instructions.

- Réparations seulement par un technicien qualifié.
- Débranchez l'alimentation électrique avant la réparation.
- Rebranchez tous les dispositifs de mise à la terre après la réparation.
- Remettez toutes les pièces et panneaux en place avant d'utiliser l'appareil.

• Esta máquina debe estar conectada a tierra a través de una clavija de conexión a tierra del cable de alimentación de 3 clavijas. El cable debe estar enchufado en un tomacorriente para un aparato electrodoméstico correctamente instalado y conectado a tierra. Si los códigos locales requieren una conexión a tierra adicional, utilice un cable de calibre 18 o mayor para conectar el gabinete de la lavadora a una conexión a tierra establecida. En todos los casos, el método de puesta a tierra debe cumplir con todos los códigos y ordenanzas locales.

PRESSURE SENSOR

BEFORE DISCONNECTING HOSE FROM PRESSURE SENSOR, BE SURE WATER LEVEL IN MACHINE IS BELOW BOTTOM OF WASH BASKET. AFTER RECONNECTING HOSE, PUT MACHINE IN SPIN FOR AT LEAST ONE MINUTE BEFORE CHECKING OPERATION OF SENSOR.

①

To Remove Control Panel:

1. Remove the two hex head screws from the top rear corners of the control panel.

2. Grasp the control panel sides, push it back, and roll it toward the rear so the pressure sensor tube can be seen where it connects to the control board.

3. Disconnect the pressure sensor tube from the control board.
4. Roll the control panel toward the front and carefully lay it on its face on the top cover.
5. Remove four 1/4" hex head screws that mount the rear backsplash panel to the control assembly.
6. Disconnect all harness connectors from the control board.

②

To Remove Lid:

- Remove the two 1/4" hex screws that secure the backsplash to the top cover and slide towards the rear of washer.
- Open the lid, remove the four screws (two each side) and lift the lid up to remove.

③

To Remove Top Cover:

1. Complete previous component removals ① and ②.
2. Remove two 1/4" hex head screws at the rear of the top cover.
3. Slide the harness grommet out toward the rear of the washer.
4. Disengage the power cord from the top cover by lifting up on the front part of the cord and then slide forward to remove.
5. Raise the rear of the top cover up and pull forward slightly to disengage the front clips.

④

To Remove Impeller or Agitator (Depending on Model):

1. With a small screwdriver, pry the cap off of the impeller or remove the cap or cup from the agitator.
2. Remove the 7/16th hex bolt that secures the impeller/agitator to the shaft.
3. Pull the impeller/agitator off the shaft.

**NOTE:** On two stage agitator models with an auger system, the auger first needs to be removed to access the 7/16th hex bolt. This is done by twisting the base of the auger right (clockwise) to unsnap it from the agitator base. This can be accomplished using a strap wrench. A Phillips screwdriver can be used to remove the auger by doing the following:  
A. Insert the screwdriver into the existing hole in the auger  
B. Rotate the auger until the screwdriver seats into a recessed area of the inner portion of the auger.  
C. Once the screwdriver is seated, tap it through the wall of the recessed area. This allows the screwdriver to assist with twisting the auger off of the agitator base to access the hex bolt.

Personality Table		
Model Number	Personality Number	Cycle Status LEDs Lit For Personality Number
MTW200**K0	7	○ ○ ○ ● ● ●
HTW200**K0 & K1	7	○ ○ ○ ● ● ●
HTW200**K2	9	○ ○ ● ○ ○ ●
HTW200**K3 & higher	0	○ ○ ○ ○ ○ ○
GTW220**K0, K1 & K2	0	○ ○ ○ ○ ○ ○
GTW220**K3	10	○ ○ ● ○ ● ○
GTW220**K4 & higher	1	○ ○ ○ ○ ○ ●
HTW240**K0 & K1	0	○ ○ ○ ○ ○ ○
HTW240**K2	10	○ ○ ● ○ ● ○
HTW240**K3 & higher	1	○ ○ ○ ○ ○ ●
GTW330**K0 & K1	8	○ ○ ● ○ ○ ○
GTW330**K2	11	○ ○ ● ○ ● ●
GTW330**K3 & higher	2	○ ○ ○ ○ ○ ○
GTW460**J0 & J2	6	○ ○ ○ ● ○ ○
GTW460**J3, J4, J5 & J6	11	○ ○ ● ○ ● ●
GTW460**J7	12	○ ○ ● ○ ○ ○
GTW460**J8 & higher	3	○ ○ ○ ○ ● ●
*GTW485**J0 & J1	10	○ ○ ● ○ ● ○
*GTW485**J2 & J3	14	○ ○ ● ● ● ○
*GTW485**J4 & higher	4	○ ○ ○ ○ ○ ○
*GTW490**J0 & J1	1	○ ○ ○ ○ ○ ●
*GTW490**J2 & higher	5	○ ○ ○ ○ ○ ●
*GTW680**J0, J1 & J2	2	○ ○ ○ ○ ○ ○
*GTW680**J3 & J4	3	○ ○ ○ ○ ● ●
*GTW680**J5 & higher	6	○ ○ ○ ● ○ ○
*GTW680**L0 & higher	6	○ ○ ○ ● ○ ○
*GTW685**L0 & higher	7	○ ○ ○ ● ● ●
*GTW750**L0 & higher	8	○ ○ ● ○ ○ ○
*GTW755**M0 & higher	13	○ ○ ● ○ ● ●

\* = Deep Fill option is NOT available on the Colors Normal cycle.

Consumer Help Indicators

- **Models with a display on the control panel**  
Your washer is equipped with Consumer Help Indicator (CHI). CHI is our way to communicate a simple remedy for some situations that you can perform without the need to call for service. The chart below describes the helpful messages you may notice scrolling on your display when you return to start another load. These messages will provide simple remedies you can quickly perform.

Spin light blinking	If an out-of-balance condition is detected by the washer, the <b>Spin</b> light will blink during the remaining portion of the cycle and will stay illuminated for a short time after cycle completion. When this occurs, the washer is taking actions to correct the out-of-balance condition and complete the cycle normally. In some cases, the washer may not be able to balance the load and spin up to full speed. If you notice the load is more wet than normal at the end of the cycle, redistribute the load evenly in the wash basket and run a <b>Drain &amp; Spin</b> cycle.
"H2O SUPPLY" (Water not entering washer)	Check your house water supply. Did you forget to turn on one or both supply valves after installation or coming back from vacation? As soon as the message starts to scroll, the washer will initiate a 4 minute lock-out period. The washer controls won't respond/change during this time. After the 4 minutes, you can begin your cycle again. If you try to bypass the lock-out period by unplugging the washer, the 4 minute timer will start over again.
"CAnCElEd"	"CAnCElEd" may scroll on the display if the machine was paused for longer than 24 hours, water was left in the machine for 15 minutes with lid open or if the machine has stopped itself before the cycle completed due to certain errors. As soon as the message starts to scroll, the washer will initiate a 4 minute lock-out period. The washer controls won't respond/change during this time. After the 4 minute period, you can begin your cycle again. If you try to bypass the lock-out period by unplugging the washer, the 4 minute timer will start over again. If the problem persists, call GE Appliances at 800.GE.CARES (800.432.2737) for service.
"Lid"	"Lid" will be shown on display if 3 cycles have been started without opening the lid. The washer will not start another cycle until the lid is opened. Try opening, then closing the lid and starting a new cycle. If the problem persists, call GE Appliances at 800.GE.CARES (800.432.2737) for service.
• <b>Models without a display on the control panel</b> Your washer is equipped with Consumer Help Indicator (CHI). CHI is our way to communicate a simple remedy for some situations that you can perform without the need to call for service. The chart below describes the helpful lights you may notice flashing on the display.	
Spin light blinking	If an out-of-balance condition is detected by the washer, the <b>Spin</b> light will blink during the remaining portion of the cycle and will stay illuminated for a short time after cycle completion. When this occurs, the washer is taking actions to correct the out-of-balance condition and complete the cycle normally. In some cases, the washer may not be able to balance the load and spin up to full speed. If you notice the load is more wet than normal at the end of the cycle, redistribute the load evenly in the wash basket and run a <b>Drain &amp; Spin</b> cycle.
Fill light (Water not entering washer)	Check your house water supply. Did you forget to turn on one or both supply valves after installation or coming back from vacation? As soon as the light starts to flash, the washer will initiate a 4 minute lock-out period. The washer controls won't respond/change during this time. After the 4 minutes, you can begin your cycle again. If you try to bypass the lock-out period by unplugging the washer, the 4 minute timer will start over again.
Lid Locked light	Lid <b>Locked</b> light will flash if 3 cycles have been started without opening the lid. The washer will not start another cycle until the lid is opened. Try opening, then closing the lid and starting a new cycle. If the problem persists, call GE Appliances at 800.GE.CARES (800.432.2737) for service.

Entry into Consumer Error Mode

- From an idle state only (all LEDs off), press and hold **Start** button for 10 seconds.
- After holding **Start** for 10 seconds, all LEDs will turn on, signifying the user may release the **Start** button.

Behaviors While In Consumer Error Mode

- The **Pause** and **Lid Locked** LEDs should be constantly blinking while in CEM.
- The first fault, if present, will show on the display.
- Pressing **Start** will display the next fault code.
- **Models without 7-segment display:** Fault code will blink in binary - the consumer will report which LEDs are blinking and which are not. See **Binary Display Fault Chart**.
- **Models with 7-segment display:** Fault code will blink on the 7-segment display.
- **At the end of the fault list or if no faults present:**
  - **Models without 7-segment display:** All status LEDs will blink.
  - **Models with 7-segment display:** 7-segment display will blink "—".

Exiting Consumer Error Mode

- Pressing any button (other than **Start**) or turning any knob will exit Consumer Error Mode.
- Consumer Error Mode will time out after 10 minutes

Field Service Mode Entry

Press and hold **Start** button while rotating the cycle selection knob 180 degrees (7 clicks) and then release the **Start** button.

- Once service mode is entered all LEDs will be flashing.
- The cycle selection Knob is now used to control the test selection menu.
  - Rotating the knob clockwise will increment the test numbers in the display.
  - Rotating the knob counter clockwise will decrement the test number in the display.
  - **Models without 7-segment display:** Will display tests using the status lights above the cycle knob in a binary format. (See Binary Chart).
  - Turning the knob to go to a different test will terminate any current active test.
- Once test number is selected, pressing **Start** will begin the selected test.

**Exit Field Service Mode**

- Field service mode will time out after 30 minutes if there is no user activity.
- **Models without 7-segment display:** Press and hold the **Start** button for 3 seconds.
- **Models with a 7-segment display:** Press **Power** button.

Once the washer is in Service Mode, the following service features are available via the cycle knob (on some models):

Knob Index / Test number (Displayed on 7-segment display, if present.) (Without 7-segment will be displayed in binary format utilizing the cycle status LEDs)	Test Name	Description of test  If tests call for numbers to be shown it will: (Display on 7-segment display, if present.) (Without 7-segment will be displayed in binary format. See Binary Chart.) Turning the cycle knob will index to the next or prior test.
0 ● ● ● ● ● ● Blinking	All LEDs blink	All LEDs on the display will blink.
1 ○ ○ ○ ○ ○ ●	Fault Codes	Use the <b>Start</b> button to cycle through active faults on the unit. <b>On models below GTW680:</b> <ul style="list-style-type: none"><li>- Fault codes will be displayed in binary (see Binary Display Fault Chart).</li><li>- When no faults are remaining to be displayed (or if none are present) all LEDs will blink.</li><li>- Pressing the <b>Start</b> button while all LEDs are blinking will display the first fault again.</li></ul> <b>On models GTW680 and higher:</b> <ul style="list-style-type: none"><li>- Fault codes will be displayed on the 7-segment display.</li><li>- When no faults are remaining to be displayed (or if none are present) the display will blink "-".</li><li>- Pressing the <b>Start</b> button while blinking "- ." will display the first fault again.</li></ul>
2 ○ ○ ○ ○ ○ ●	Personality ID	Pressing <b>Start</b> will start the test. The set personality will be flashing. Models without 7-segment display use binary to show personality. Models with 7-segment display will display personality. (See Personality ID Chart for the correct ID for the model being checked.)
3 ○ ○ ○ ○ ● ●	UI Software Version (Critical)	After entering this test, press the <b>Start</b> button to toggle through the software version number as follows: Example: v01.23 High end UI 1st press - "01" on 7SD 2nd press - "23" on 7SD Low end UI (See Version Diagram below) Major version ( <b>Pause</b> LED ON) 1st press - Display 0 in binary (all LEDs off) 2nd press - Display 1 in binary Minor version ( <b>Lid Locked</b> LED ON) 3rd press - Display 2 in binary 4th press - Display 3 in binary
4 ○ ○ ○ ● ○ ○	UI Software Version (Non-critical)	After entering this test, press the <b>Start</b> button to toggle through the software version number as follows: Example: v01.23 High end UI 1st press - "01" on 7SD 2nd press - "23" on 7SD Low end UI (See Version Diagram below) Major version ( <b>Pause</b> LED ON) 1st press - Display 0 in binary (all LEDs off) 2nd press - Display 1 in binary Minor version ( <b>Lid Locked</b> LED ON) 3rd press - Display 2 in binary 4th press - Display 3 in binary
5 ○ ○ ○ ● ○ ●	XML Version (Non-critical)	After entering this test, press the <b>Start</b> button to toggle through the software version number as follows: Example: v01.23 High end UI 1st press - "01" on 7SD 2nd press - "23" on 7SD Low end UI (See Version Diagram below) Major version ( <b>Pause</b> LED ON) 1st press - Display 0 in binary (all LEDs off) 2nd press - Display 1 in binary Minor version ( <b>Lid Locked</b> LED ON) 3rd press - Display 2 in binary 4th press - Display 3 in binary
6 ○ ○ ○ ● ● ○	Hot Water Valve	Pressing <b>Start</b> will toggle the hot water valve on and off. Test will have a timeout for how long valve will be on (1 minute). The valve will turn off when the test is exited.
7 ○ ○ ○ ● ● ●	Cold Water Valve	Pressing <b>Start</b> will toggle the cold water valve on and off. Test will have a timeout for how long valve will be on (1 minute). The valve will turn off when the test is exited.
8 ○ ○ ● ○ ○ ○	Fabric Softener Dispenser	Pressing <b>Start</b> will toggle the fabric softener valve on and off. Test will have a timeout for how long valve will be on (1 minute). The valve will turn off when the test is exited.
9 ○ ○ ● ○ ○ ●	Spray Rinse Valve Check	Pressing <b>Start</b> will toggle the spray rinse valve on and off. Test will have a timeout for how long valve will be on (1 minute). The valve will turn off when the test is exited.

Knob Index / Test number (Displayed on 7-segment display, if present.) (Without 7-segment will be displayed in binary format utilizing the cycle status LEDs)	Test Name	Description of test  If tests call for numbers to be shown it will: (Display on 7-segment display, if present.) (Without 7-segment will be displayed in binary format. See Binary Chart.) Turning the cycle knob will index to the next or prior test.
10 ○ ○ ● ○ ● ○	Flow Rate/Pressure Sensor	Pressing <b>Start</b> will start the test. Pressure sensor test will have a timeout. All valves will turn on. All LEDs will blink at start of test. Stop blinking LEDs as approximate water levels are crossed. <b>The levels are:</b> 2", 3", 4", 5", 6" and 7" Water valves shut off at this level. <b>NOTE:</b> 2" pressure level not supported on GTW750 model. <b>NOTE:</b> To ensure proper flow rate, this test should complete in less than 2 minutes and 45 seconds. If it takes longer, check to ensure the incoming water pressure is 20psi minimum at the washer while the washer is filling and that the inlet fill screens are clear of debris.
11 ○ ○ ● ○ ● ●	Recirculate Pump	Pressing <b>Start</b> will toggle the recirculation pump on and off. Test will have a (1 minute) timeout for how long recirculation pump will be on. The recirculation pump will turn off when the test is exited.
12 ○ ○ ● ● ● ○	Drain Pump	Pressing <b>Start</b> will toggle the drain pump on and off. Test will have a (4 minute) timeout for how long drain pump will be on. The drain pump will turn off when the test is exited.
13 ○ ○ ● ● ○ ●	Lid Switch	Pressing <b>Start</b> will start the test. When the lid is open, the <b>Spin</b> status LED will blink. When the lid is closed, the <b>Rinse</b> status LED will blink.
14 ○ ○ ● ● ● ○	Spin	Pressing <b>Start</b> will start the test. Spin test will perform child safety algorithm before it starts to spin. (Two (2) sprays of water before locking the lid.) The lid must be closed to start the test. If lid is open the <b>Locked</b> LED will blink. When mode shift is complete, the washer will ramp up to max spin speed after first dwelling at 140 RPM then 450 RPM. When mode shift is complete, the washer will begin spinning to max spin speed for the model being tested. Spin test will have a (4 minute) timeout. Be sure to only run this with an empty basket as there is no OOB detection during this test. The spin will stop when the test is exited. The lid will unlock once the speed reaches 0 after the test is exited.
15 ○ ○ ● ● ● ●	Agitate	Pressing <b>Start</b> will start the test. Agitate test will perform child safety algorithm before it starts to agitate. The lid must be closed to start the test. If lid is open, the <b>Locked</b> LED will blink. When started, the mode shift to agitate will occur if required. When mode shift is complete, the washer will begin agitating. The test will pause if the lid is opened after starting. The test will resume on lid close if it was running when opened. The test will stop when the test is exited.
16 ○ ● ○ ○ ○ ○	Clear all Fault Codes	Pressing <b>Start</b> will clear all fault codes.
17 ○ ● ○ ○ ○ ●	Change Personality	<ul style="list-style-type: none"><li>• Pressing <b>Start</b> will start the test and display the first valid personality.</li><li>• Each additional <b>Start</b> button press will display the next valid personality from the personality chart in the middle of this page. Continue to press <b>Start</b> button until desired personality is displayed which corresponds to the model number.</li><li>• When desired personality is flashing, press and hold <b>Start</b> button for 3 seconds to set the personality.</li><li>• Control will exit service mode. <b>NOTE:</b> If the selected personality is already set nothing will happen.</li></ul> <b>On models below GTW680:</b> <ul style="list-style-type: none"><li>- Personality will be displayed in binary (see Personality Table). <b>NOTE:</b> Personality 0 will be the first personality selected and all LEDs will be off.</li></ul> <b>On models GTW680 and higher:</b> <ul style="list-style-type: none"><li>- Personality will be displayed on 7-Segment Display.</li></ul>
18 ○ ● ○ ○ ● ○	Analog Knob	Pressing <b>Start</b> will start the test. Each options knob is represented by a specific corresponding status LED. (Far left options knob to the far left status LED) When knob position changes, the LED for the specific knob blinks. With each click to the right, the LED for the specific knob blinks faster. With each click to the left, the LED for the specific knob blinks slower.
19 ○ ● ○ ○ ● ●	Bulk Detergent Dispense Valve	Pressing <b>Start</b> will toggle the bulk valve (if equipped with a bulk detergent tank) on and off. Test will have a timeout for how long valve will be on (1 minute). The valve will turn off when the test is exited.

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