

### Using WFK 2401 Washer Test Program

This will show how to use and interpret the **B** WFK 2401 washer test program.

#### To enter test program for WFK 2401 washers:

- ◆ Set cycle knob to any "X" (reset) position
- ◆ Press and hold **Pre-Wash** and **Start** buttons at the same time. While still holding **Pre-Wash** and **Start** buttons, turn unit on by pressing **On/Off** button.
- ◆ Keep holding **Pre-Wash** and **Start** buttons (only) until digital display comes on (~ 5 seconds).
- ◆ When test program has been entered:
  - ◆ **Start** light will flash
  - ◆ Digital display will show **00** for no faults or will show fault codes below:

**HINT:** Turning washer off at any time will end test program.

**HINT:** Fault codes customers could see during normal washing:

- ❗ 01 = No water filling
- ❗ 02 = No heating
- ❗ 03 = No draining
- ❗ 04 = Overheating
- ❗ 06 = Door open or won't lock

**HINT:** Fault codes displayed during testing:

- |                         |                                      |
|-------------------------|--------------------------------------|
| ❗ 01 = No water filling | ❗ 06 = Door open or won't lock       |
| ❗ 02 = No heating       | ❗ 08 = Motor won't run               |
| ❗ 03 = No draining      | ❗ 09 = NTC failed (open circuited)   |
| ❗ 04 = Overheating      | ❗ 10 = NTC failed (shorted)          |
| ❗ 05 = Motor erratic    | ❗ 12 = Motor reversing relays failed |

#### Test # 1 -- Motor & drain pump:

Rotate *cycle selector* knob to **Regular/Cotton (1)**, then push **Start** button. Test ends automatically after ~ 3 minutes.

- ◆ **Start** light flashes when test has been selected, stays on when test has started and flashes when test has ended.
- ◆ During test, *motor* turns drum clockwise for 5 seconds (@ 50 RPM), then counterclockwise for 5 seconds. *Drain pump* comes on while *motor* turns drum clockwise @ 100 RPM for 30 seconds (to test if drum unbalanced), gradually accelerates to top speed, slows and stops.

#### Test # 2 -- Hot & dual cold water valves, pressure switch, heater & drain pump:

Rotate *cycle selector* knob to **Regular/Cotton (2)**, then push **Start** button. Test ends automatically after ~ 3-1/2 minutes.

- ◆ **Start** light flashes when test has been selected, stays on when test has started and flashes when test has ended.
- ◆ Display shows **00** at start of test. In left side of dispenser, hot water pulses for 12 seconds, then flows for 15 seconds. Then, cold water flows into right side of dispenser for 10 seconds. Display shows 01 when pressure switch trips, then water fills, *heater* comes on (drawing 6.5 A) and *motor* occasionally turns drum clockwise & counterclockwise. Water fills totally until display shows **02** (~ 1-1/2 minutes), then *drain pump* comes on (and *motor* and *heater* shut off). While washer drains, display goes from **02** to **01** to **00**.

**NOTE:** During test # 2, display shows fault code **01** since water doesn't totally fill & **02** since water isn't fully heated. This is normal.

**HINT:** Water valves are tested in order:

- Hot water valve – pulses & flows into left side of dispenser.
- Left side of cold water valve (Pre-wash) – flows into right side of dispenser.
- Left & right sides of cold water valve (Wash) – flows into left side & center of dispenser.

**Test # 3 -- Water valves, motor, drain pump & heater separately:**

Rotate *cycle selector* knob to **Permanent Press (3)**, then push **Start** button. **Start** light flashes when test # 3 has been selected, but stays on when individual tests start, run and end. Test each part individually as follows:

- ♦ **Motor** – Rotate cycle knob to **No Final Spin**. Rotate knob from **No Final Spin** to end test. **Motor** turns drum clockwise @ 27 RPM.
- ♦ **Drain pump** – Push **Delay Start** button (**Delay Start** light comes on). Push button again to end test. **Drain pump** runs -- listen for *drain pump* running or look for water draining from washer.
- ♦ **Heater** – Push **Power Wash** button (*1<sup>st</sup> fill washer with water using one of three water valves below*). **Power Wash** light comes on. Push button again to end test. Digital display shows temperature rise in 1°C steps (0° → 1° → 2°, etc. -- **temperature rises ~ 1°C/minute**).

**HINT:** To save time, fill with a little water so heater will heat more quickly.

**HINT:** During **water valve** and **heater** tests, display can show **01** if water fill not completed or **02** if water not fully heated. This is normal.

- ♦ **Dual cold water valve (Pre-wash)** – Push **Pre-wash** button (**Pre-wash** light comes on). Push button again to end test. Water from left half of *dual inlet valve* (viewing front of washer) flows into right side of dispenser. Pull dispenser door slightly to view water (without splashing).
- ♦ **Dual cold water valve (Wash)** – Push **Quick Wash** button (**Quick Wash** light comes on). Push button again to end test. Water from right half of *dual inlet valve* (viewing front of washer) flows into left side of dispenser. Pull dispenser door slightly to view water (without splashing).
- ♦ **Hot water valve** – Push **Rinse Plus** button (**Rinse Plus** light comes on). Push button again to end test. Water pulses, then flows into left side of dispenser. Pull dispenser door slightly to view water (without splashing).

**HINT:** Hot water pulses initially to dissolve powdered detergent.

To exit test program (from any test), turn unit off by pressing "**ON/OFF**" button.

**HINT:** The buzzer sounds if a fault occurs or any cycle ends. Change buzzer volume as follows:

1. Exit test program by pressing "**ON/OFF**" button.
2. Turn washer on by pressing "**ON/OFF**" button.
3. Press and hold "**PRE-WASH**" button – buzzer volume goes through a set order:  
**1 loud > 2 medium > 3 soft > 4 off**
4. Release "**PRE-WASH**" button when you hear buzzer volume you want.

**HINT:** To drain washer to open locked door (locked during wash or test):

- Exit test program by turning washer off. Turn washer on, then rotate *cycle selector* knob to **Drain (6)**.
- Display will show **2**, showing draining will take 2 minutes. Door can be opened after washer drains, **Door Locked** light turns off and **CL** shows on display (door locks during testing, but **Door Locked** light doesn't turn on).