

WTA/WTL Service Tips -- Test Program (1)

WTA 35 & WTL 54 dryers have test programs enabling them to self-diagnose problems, including listing the last fault code.

To enter/exit test program for WTA 35 & WTL 54 dryers:

- ◆ Rotate *Auto-cycle* and *Timed cycle* knobs to **Off** position.
- ◆ Push and hold **Start** and **Delicate** buttons at the same time, then turn dryer on by pushing **On/Off** button. After pushing **On/Off** button, keep holding **Start** and **Delicate** buttons until **Start** light flashes rapidly. Dryer is now in the test program.
- ◆ Lights will flash for drying faults -- fault shown will be the last fault code on the dryer (see fault chart on next page).
- ◆ When test program has been entered:
 - ◆ **Start** light flashes rapidly.
 - ◆ Select individual parts to test by rotating *Auto-cycle* knob as shown on next page.
 - ◆ Don't rotate *Auto-cycle* knob or push any button while individual tests are being run (so tests won't stop).
 - ◆ Once part to test has been selected, start test by pushing **Start** button. **Start** light will stay on continually while tests are running. Push **Start** button again to end any test. Tests have finished once **Start** light flashes rapidly again.
 - ◆ To exit test program, push **Start** button (while **Start** light flashes rapidly).



NOTE: Fault displayed will be 1st fault that occurred since last time dryer was turned on.

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Test parts individually as follows:

- ◆ **Indicating lights & digital display** – To start test, rotate *Auto-cycle* knob to **Regular/Cotton Extra Dry**, then push **Start** button. To end test, rotate *Auto-cycle* knob out of **Regular/Cotton Extra Dry** position.
- Cycle buttons & selector switches** – To start test, rotate *Auto-cycle* knob to **Regular/Cotton Very Dry**, then push **Start** button. To end test, push **Start** button again (since test doesn't end).
- ◆ **Pump, motor, heater & NTC's** – To start test, rotate *Auto-cycle* knob to **Regular/Cotton Regular Dry**, then push **Start** button. Test ends automatically.
- ◆ **Sensor conductance** – To start test, rotate *Auto-cycle* knob to **Regular/Cotton Light Dry**, then push **Start** button. To end test, push **Start** button again (since test doesn't end).

Fault	Possible Causes	Flashing Lights	Digital Display
Drying time too long	<input type="checkbox"/> Control module failed. <input type="checkbox"/> Moisture sensor(s) failed. <input type="checkbox"/> Hi-Limit ("overheat") thermostat tripped and failed to reset. <input type="checkbox"/> Water level switch failed (WTL 54 only). <input type="checkbox"/> Supply voltage too low.	● Anti-Crease/End	
Overheating	<input type="checkbox"/> Control module failed. <input type="checkbox"/> Heater failed.	● Extra Dry	
R3 NTC failed (short or open circuited)	<input type="checkbox"/> NTC # R3 failed.	● Damp Dry	
R2 NTC failed (short or open circuited)	<input type="checkbox"/> NTC # R2 failed.	● Regular Dry	
Condensed water not pumped out (WTL 54 condensation models only)	<input type="checkbox"/> Pump failed.		E1

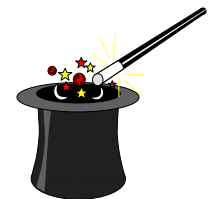
WTA/WTL Service Tips -- Test Program (3)

SELECTOR KNOB	KNOB PROGRAMS	KNOB POSITION	LIGHTS					
			Drying	Damp Dry	Regular Dry	Extra Dry	Anti-Crease/End	
Program Selector Knob NOTE: Red <i>Regular/Cotton Very Dry</i> lights stay lit during this test no matter what program selector position is chosen – no other <i>Regular/Cotton</i> or <i>Permanent Press</i> lights comes on.	Off							
	Regular/Cotton Extra Dry		On					
	Regular/Cotton Very Dry			On				
	Regular/Cotton Regular Dry				On			
	Regular/Cotton Light Dry					On		
	Regular/Cotton Econo Dry						On	
	Regular/Cotton Damp Dry			On	On			
	Permanent Press Econo Dry			On		On		
	Permanent Press Light Dry			On			On	
	Permanent Press Regular Dry			On				On
	Permanent Press Very Dry				On	On		
Permanent Press Extra Dry				On		On		
Timed Cycle Knob NOTE: <i>program selector knob MUST</i> be straight up for tests to run.	Timed cycle Heated Dry			On				On
	Timed cycle				On	On		
	Timed cycle				On			On
	Timed cycle Air Fluff						On	On

Cycle Buttons & Selector Switches Test Chart

NOTES:

- Pushing "START" button after test has ended will repeat it.
- Door can be opened (if desired) during this test.
- *Delicates, End of Cycle Signal* and *Cycle Time Minutes* lights stay lit whenever button underneath them is pushed and held.
- Digital display does not come on during this test.



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Pump, motor, heater & NTC's Test Sequence Chart

PART TESTED	TEST ORDER & TIME (SECONDS)															NOTES			
	START	15				5	2	5	29								END		
		3	5	5	2			5	1	5	1	5	1	5	1			5	
Pump	START OF TEST																	END OF TEST	For WTL 54 condensation dryer only
Motor – right rotation																		During 29 second drum reversing cycle, drum runs for 5 seconds on / 1 second off – check drum rotation with door open.	
Motor – off																			
Motor – left rotation																			
Heater (E2)																		Feel for heat with door open.	
Heater (E3)																		Feel for heat with door open.	

- NOTES:**
- Test ends automatically. Pushing **Start** button after test has ended will repeat it.
 - Opening door stops test – closing door resumes test. To check if drum is turning and if heat is coming out of drum, run test with door open by tripping door latch (by gently pushing it with a screwdriver).

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

WTA/WTL Service Tips -- Test Program (5)

Sensor Conductance Test

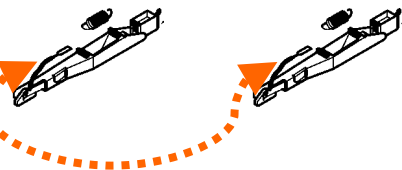
HINTS:

- Tests can be run with door closed. Opening door during testing stops the test.
- To run 2nd test with sensors and drum connected, remove top panel and connect jumper to copper braids (for two "brushes" touching outside of drum).
- Drum **must** be empty during these tests – damp clothes in drum will give wrong results.
- Lights won't flash during this test.

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

LIGHTS SHOWING CONDUCTANCE OF MOISTURE SENSORS

Test	"Drying" light	"Damp Dry" light	Comments
Drum empty –sensors and drum not connected	<input checked="" type="radio"/> Drying	<input type="radio"/> Damp Dry	No fault
	<input type="radio"/> Drying	<input type="radio"/> Damp Dry	Fault – short circuit
Drum empty – with sensors and drum connected	<input type="radio"/> Drying	<input checked="" type="radio"/> Damp Dry	No fault
	<input type="radio"/> Drying	<input type="radio"/> Damp Dry	Fault – open circuit or circuit resistance is too high



HINT: Using the test program can cut down repair times & eliminate repeat calls from misdiagnosing problems. The pump, motor, heaters, NTC's and moisture sensor conductance tests are more helpful than the buttons, knobs, lights and display tests.