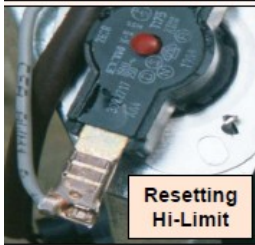
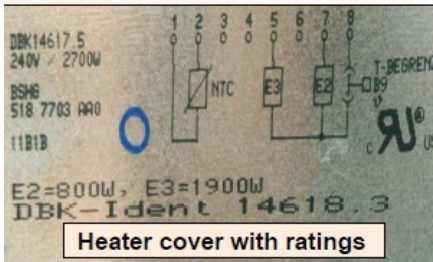


WTA 35 & WTL 54 Service Tips -- NTC R2, Hi-Limit & Heater

HINT: NTC R2 reads ~ 21 k Ω @ room temperature.

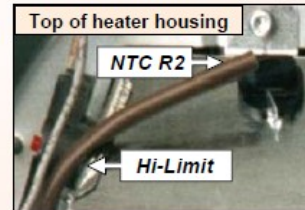
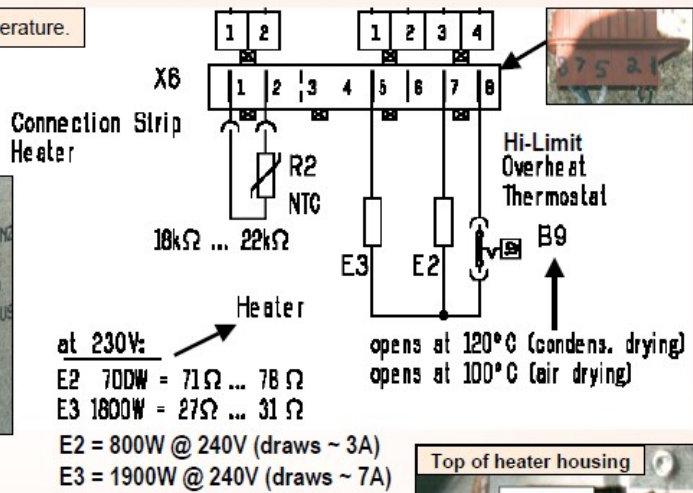
NOTE: Heaters cycle on and off as needed to keep temperatures at appropriate levels.



HINT: Measure heater E3 between terminals 8 & 5 and heater E2 between terminals 8 & 7. If resistance = ∞ , reset Hi-Limit thermostat and remeasure.

HINT: Hi-Limit (safety cutout) trips @:

- 100°C (212°F) for WTA 35
- 120°C (248°F) for WTL 54

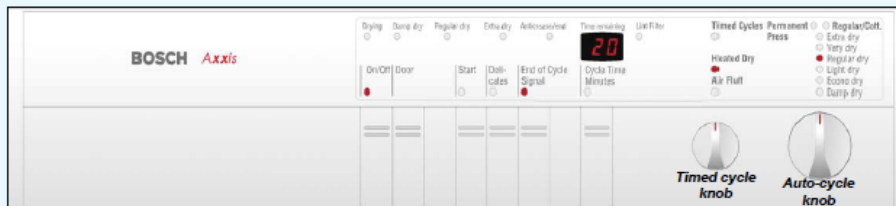


WTA/WTL Service Tips -- Test Program (1)

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.

WTA/WTL Service Tips -- Test Program (2)

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	<ul style="list-style-type: none"> ❑ Control module failed. ❑ Moisture sensor(s) failed. ❑ Hi-Limit ("overheat") thermostat tripped and failed to reset. ❑ Water level switch failed (WTL 54 only). ❑ Supply voltage too low. 	● Anti-Crease/End	
Overheating	<ul style="list-style-type: none"> ❑ Control module failed. ❑ Heater failed. 	● Extra Dry	
R3 NTC failed (short or open circuited)	❑ NTC # R3 failed.	● Damp Dry	
R2 NTC failed (short or open circuited)	❑ NTC # R2 failed.	● Regular Dry	
Condensed water not pumped out (WTL 54 condensation models only)	❑ 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 Regular/Cotton Very Dry lights stay lit during this test no matter what program selector position is chosen – no other Regular/Cotton or Permanent Press 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: program selector knob MUST 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.



WTA/WTL Service Tips -- Test Program (4)

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
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)																	
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	● Drying	○ Damp Dry	No fault
	○ Drying	○ Damp Dry	Fault – short circuit
Drum empty – with sensors and drum connected HINT: Remove top panel and jumper between copper braids (to "brushes" touching outside of drum).	○ Drying	● Damp Dry	No fault
	○ Drying	○ 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.