

Programming Basic 3

T3290, T3530, T3650

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The manufacturer reserves the right to modify design and material specifications without notice.

The programming mode is used for changing (programming) preset machine values

At the factory, the tumble-dryer has been set to specific values for:

Time, temperature, cooling, reversing, etc. These values can be adjusted in the programming mode.

The parameters shall always match to the specific dryer type.

The machine parameters can be changed by switching the electronic control to Programming mode. The display will read **SP** and the three push-buttons will now be used to change the programming parameters, (see next page).

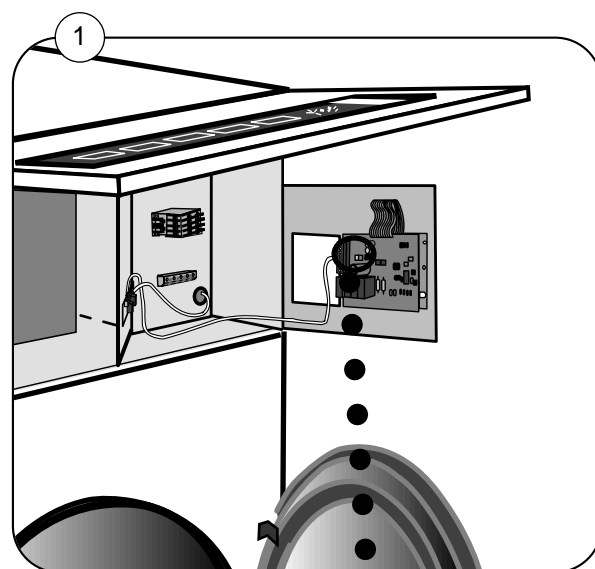


Programming is only to be carried out by qualified personnel.

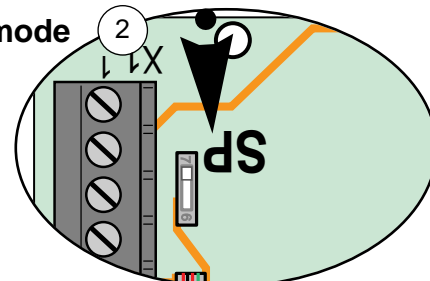


Switching to Programming mode

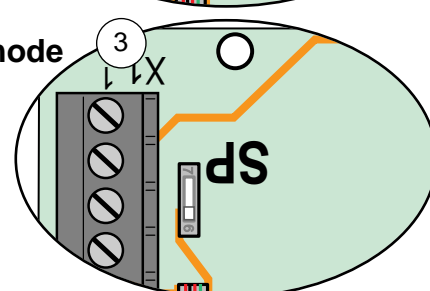
- Open the loading door (the door must be kept open).
- 1 • Open the door of the control panel.
- 2 • Move the switch on the circuit-board to position **SP**, fig. 2.
- Program the dryer as described on following pages.
- 3 • End of programming. Move the switch back to normal mode, fig. 3.



Programming mode



Normal mode



Caution



The control circuit board in this dryer contains hazardous voltages. Refer servicing to qualified personnel.

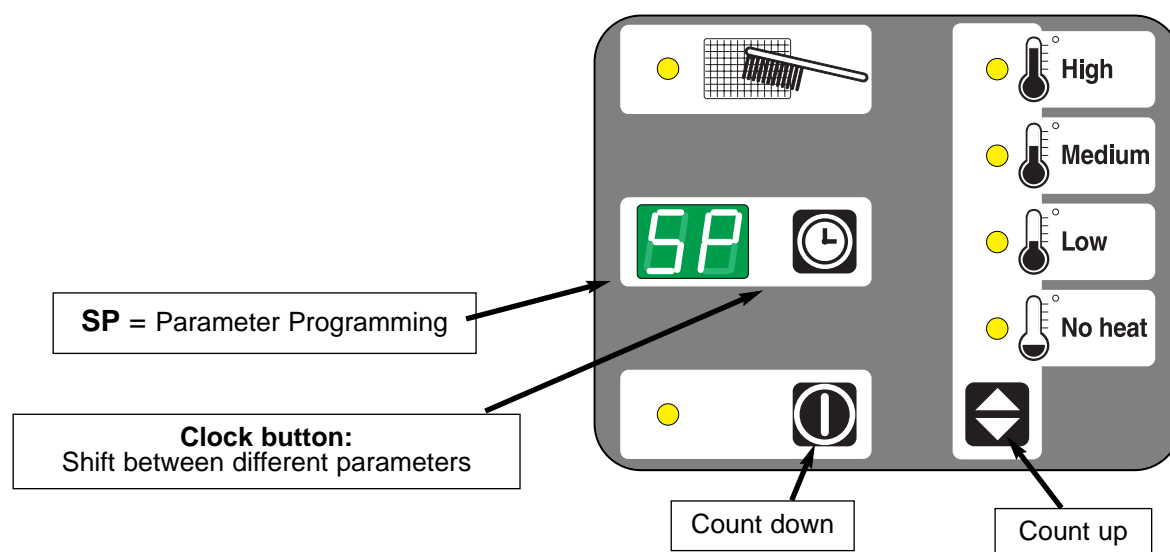


Note !! If Programming is activated when the machine power is subsequently switched on, a test and diagnosis program will start.

Adjustable parameters:

- 00.** Machine type
- 01.-03.** Temperature
- 04.** Temperature hysteresis
- 05.** Time interval
- 06.** Max. running time or "coin 2"
- 07.** Running time between reversals
- 08.** Cooling time
- 09.-11.** Residual moisture levels
- 12.-14.** Extra drying time

Control panel function in Programming mode



Change of machine type

Press the clock button; the display will read **00.**, which is the first parameter (first parameter **00.** = machine type).

The parameter numbers are shown for two seconds with a dot after the last digit.



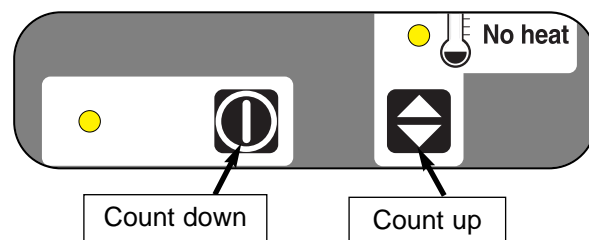
After two seconds the machine type selected will be displayed. Example **10** corresponds to manual time control without reversing.



continues overleaf

Change of machine type, continued

The machine type can be changed by using the buttons to count up or down.



Machine types and variants

Machine type	Manual control of time	Manual RMC	Coin	Central control panel	
Without reversing	10	50	11 / 51*	12	
With reversing	30	70	31 / 71*	32	

*51 and 71 are specially designed for the Japanese market.

Change of parameters

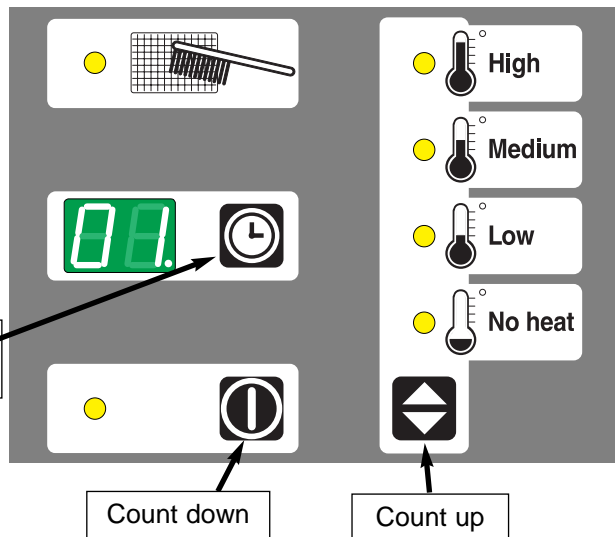
When the machine type has been selected, push the clock button; parameter no. **01.** will come up on the display: After two seconds a value is shown that can be changed by means of the count up/down buttons.

Clock button,
change to next parameter

Now press the clock button again; the next parameter number will come up on the display.

After two seconds a value is shown that can be changed by means of the count up/down buttons, etc....

It is possible to scroll the parameters by pushing the clock button repeatedly.




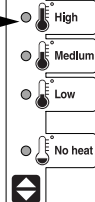

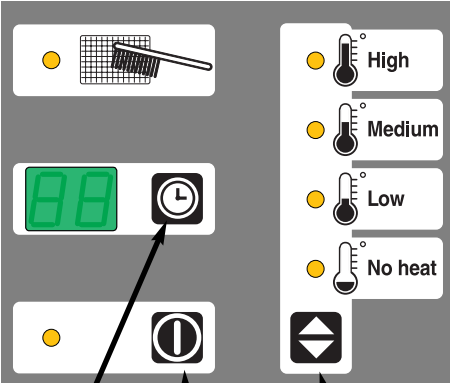

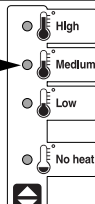


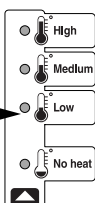



Note! Parameter **06.** = maximum running time for a manual machine or running per coin insert on "coin insert 2" (double coin insert). If maximum running time on a manual machine is changed e.g. to 30 minutes, the machine cannot choose to run more than the maximum time, i.e. 30 minutes.

Parameters 01.-14. are on the following pages





Programming

Parameter no. check by pressing the clock button	Value can be set after two seconds	Required change: Press the "count up/down" buttons.
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Temperature setting

 <p>Temperature program High</p> 	<p>The highest temperature can be set to a value between 32°C-85°C. Factory setting = 85</p> 	 <p>Next parameter</p> <p>Count down</p> <p>Count up</p>
 <p>Temperature program Medium</p> 	<p>The medium temperature can be set to a value between 32°C-85°C. Factory setting = 70</p> 	
 <p>Temperature-program Low</p> 	<p>Lowest temperature can be set to a value between 32°C-85°C. Factory setting = 50</p> 	
 <p>Temperature hysteresis</p> <p>Difference between heat on or off</p>	<p>Can be set to a value between 01°C-10°C. Factory setting = 02</p> 	

Time setting




 <p>Time interval</p> <p>Running time per pulse (per coin insert - or push if time-controlled)</p>	<p>Can be set to a value between 0.1 and 90 minutes. Factory setting = 15</p> 	<p>From 0.1 to 9.9 minutes the setting can be changed by increments of 1/10 minute per push.</p> <p>From 10 to 90 minutes the setting can be changed by increments of 1 minute per push.</p>
 <p>Max. running time or Time interval, coin 2</p> <p>Max. running time on manual machine or running time per coin insert on coin 2 (double insert)</p>	<p>Can be set to a value between 0.1 and 90 minutes. Factory setting = 60</p> 	<p>From 0.1 to 9.9 minutes the setting can be changed by increments of 1/10 minute per push.</p> <p>From 10 to 90 minutes the setting can be changed by increments of 1 minute per push.</p>

Reversing

 <p>Running time between reversals</p>	<p>Can be set to a value between 0.1 and 9.9 minutes. Factory setting = 5.0</p> 	<p>Change the setting by 1/10 minute per push.</p>
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Parameter no. check by pressing the clock button	Value can be set after two seconds	Required change: Press the "count up/down" buttons.
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Cooling time







 Cooling time	Running time without heat at end of cycle Can be set to a value between 00 and 10 minutes. Factory setting = 03 	 Count down Count up
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Residual moisture level

The measurement of residual moisture level consists of a combined parameter set for residual moisture + a parameter for extra drying time.

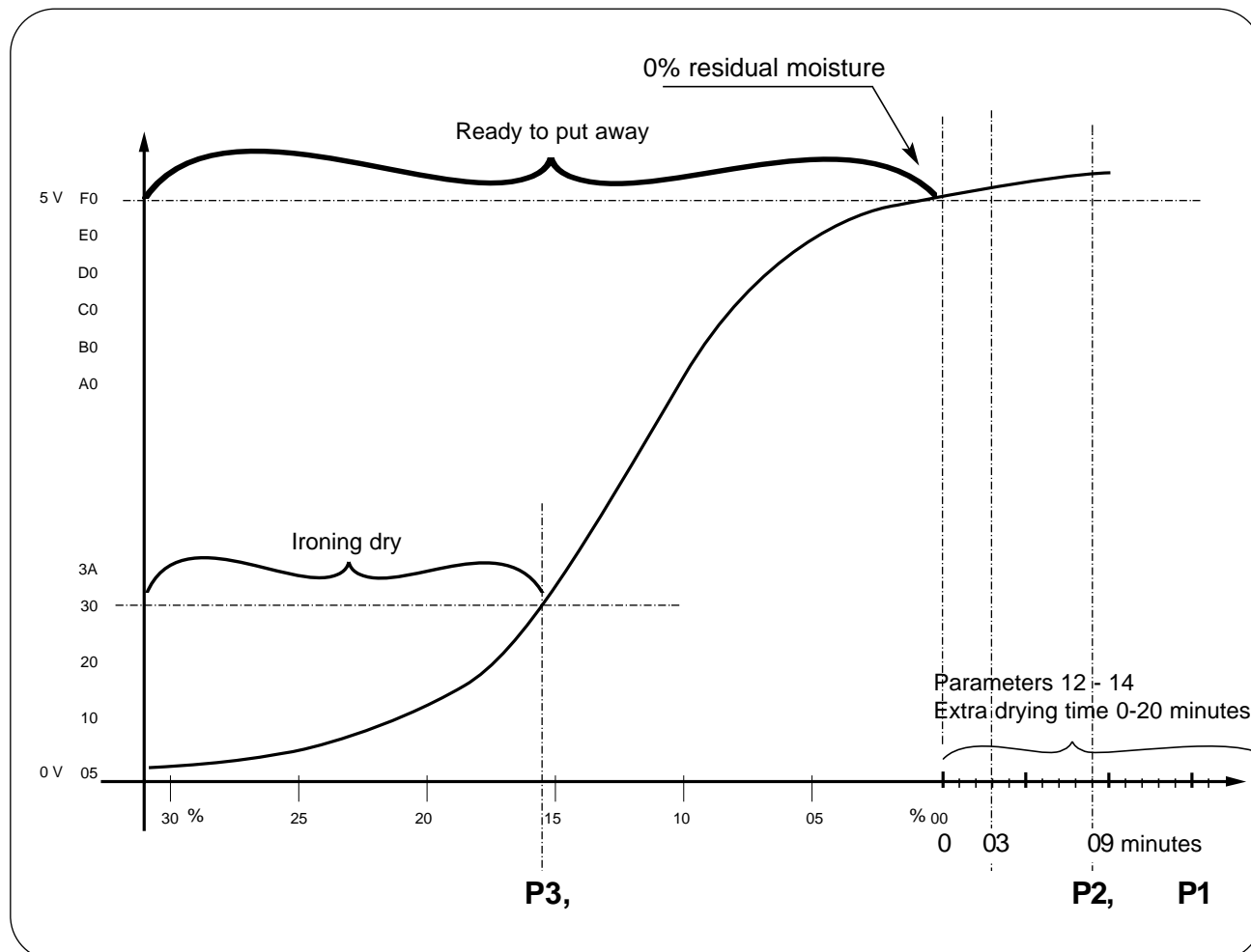
 Program P1 = extra dry	Residual moisture level, F0 = ready to put away Can be set to a value between 05 and F0. Factory setting F0 	The values for residual moisture are given in hexadecimals (05-F0). See explanation on following page.
 Program P2 = ready to put away	Residual moisture level, F0 = ready to put away Can be set to a value between 05 and F0. Factory setting F0 	
 Program P3 = ironing dry	Residual moisture level, e.g. 30 = iron dry Can be set to a value between 05 and F0. Factory setting 30 	

Extra drying time

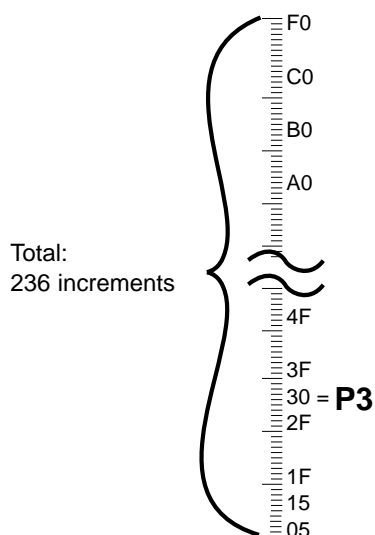
 Program P1 = extra dry	Extra drying time in minutes Can be set to a value between 00 and 20 minutes. Factory setting 09 	Extra drying time when the value set in parameter 09 has been reached.
 Program P2 = ready to put away	Extra drying time in minutes Can be set to a value between 00 and 20 minutes. Factory setting 03 	Extra drying time when the value set in parameter 10 has been reached.
 Program P3 = ironing dry	Extra drying time in minutes Can be set to a value between 00 and 20 minutes. Factory setting 00 	Extra drying time when the value set in parameter 11 has been reached.

Residual moisture level

Measurement principle



Explanation of Y-axis (hexadecimals)



The values for residual moisture are shown in the display in so-called hexadecimals - a series of numbers covering a total of 16 values for each digit (0,1,2,3,——9,A,B,C,D,E,F). A total of 236 values can be shown.

Example:

P3, ironing dry, parameter no. 11 = 30.

If the clothes are not dry enough, add increments by using the "count up" button: **31,32,33,34,.....3A,3b,3C,3d...** etc. up to **F0**

Quick-view parameter list

The following values are factory settings:

Parameter-number	Value/setting				Machine types. W/o rev. Standard and condensate versions. W/ rev.
	Man. RMC	Man. Time	*Coin	*CP	
00.	50 70	10 30	11/51 31/71	12 32	
01.	85	85	85	85	Programme with high temperature.
02.	70	70	70	70	Programme with medium temperature.
03.	50	50	50	50	Low temperature
04.	02	02	02	02	Temperature hysteresis
05.	15	15	15	15	Time interval, running time per pulse (per coin or push)
06.	60	60	60	60	Max. time or time interval for "coin 2"
07.	5,0	5,0	5,0	5,0	Running time between reversals
08.	03	03	03	03	Cooling time
09.	F0	--	--*	--*	Moisture level: P1 (extra dry)
10.	F0	--	--	--	Moisture level: P2 (ready to put away)
11.	30	--	--	--	Moisture level: P3 (ironing dry)
12.	09	--	--	--	Extra drying time: P1
13.	03	--	--	--	Extra drying time: P2
14.	00	--	--	--	Extra drying time: P3

* Payment machines: Parameters 09-14 cannot be set.
Will run without payment (bypassing the control panel)
if the machine code is set to 43