



## Service Information

Washing machine Toploader

WTLS 60812 ZEN

8593 612 10034

Last Modification: 14/08/14

Creation Date: 01/03/14

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This document is only intended for qualified technicians who are aware of the respective safety regulations.  
Subject to modifications

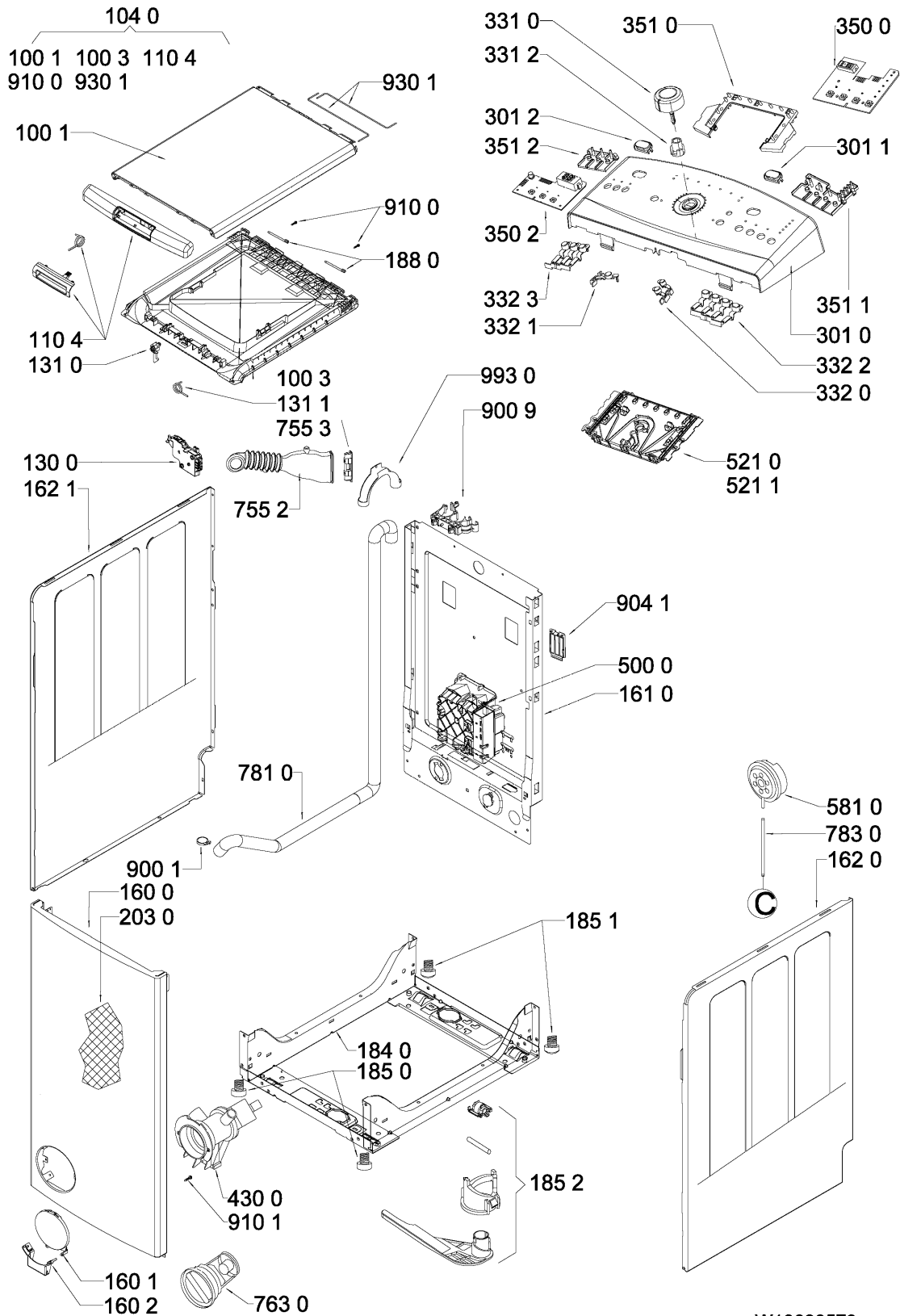
## Spare Part List

Pos	12NC	Description
1001	4812 440 10842	Lid outer GW
1003	4810 104 44922	Lid inner Boston
1040	4810 105 84265	Lid Kit
1104	4810 105 84262	Handle Kit
1300	4810 104 74505	Door lock with cable
1310	4810 104 44947	Hook f. Door lock
1311	4810 104 44928	Spring f.hook
1600	4812 440 10838	Front panel WH GW
1601	4812 459 38057	Flap round GW
1602	4812 459 38058	Hinge flap GW
1610	4801 111 04682	Rear panel
1620	4812 440 10839	Side panel right GW
1621	4812 440 10841	Side panel left GW
1810	4812 529 18043	Shock absorber
1811	4801 101 00803	Pin shock absorber
1812	4812 401 18412	Stopper
1820	4801 111 04683	Counter weight
1821	4812 466 88465	Counter weight right
1840	4812 440 10727	Drip tray assy
1850	4812 462 48054	Foot
1851	4812 528 78075	Foot rear
1852	4812 310 18497	Trolley kit front
1870	4810 104 03204	frame top
1871	4810 104 22667	Frame inner
1880	4812 417 19155	Hinge bolt lid GW
1910	4810 104 10453	Door bellow TL HR STD
1911	4810 104 10280	Strap f. Doorbellow
1912	4812 466 88703	Seal
2000	4810 105 55527	Tub DD-STD
2001	4801 111 04687	Cover for tub
2030	4812 310 18457	Insulation front
2200	4810 105 38157	Drum
2211	4810 735 93541	Kit f.drum
2230	4801 101 00104	Drum lifter low
2900	4812 532 68078	Gasket
3010	4810 105 81696	Control panel
3011	4812 452 17694	Window DOMINO WH, Remaining time
3012	4812 453 10603	Window DOMINO WH, Temp.
3310	4810 103 89396	Knob timer
3312	4812 414 58307	Spring Knob timer
3320	4812 410 29503	Push button start/reset
3321	4812 410 29515	Push button
3322	4812 410 29501	Push button 4 Opt.
3323	4812 410 29502	Push button 3 Opt. left
3500	4812 239 58076	Module E4 4 Opt. w. Display
3502	4801 101 00105	Module E-6, Display left
3510	4812 134 18083	Light guide
3511	4812 134 18078	Light guide 4 Opt.
3512	4812 134 18089	Light guide 2 Opt. left
4000	4810 104 85263	Motor TL DD/ALU/1200

Pos	12NC	Description
4210	4810 105 03697	Interf.filter
4212	4812 404 38679	Holder RFI
4300	4810 730 71153	Pump draining R2.5Y
4510	4810 106 45279	Heating element 240V/2050W+NTC double gr
4900	4819 321 18136	Cable mains 3X1620mm SA
4902	4801 111 04709	Ferrite core
4910	4812 321 28367	Strain relief
5000	4801 111 04691	Control unit Motor 758202
5210	4810 105 79929	Control unit WAVE ECO, progr.
5211	4810 105 60644	Control unit WAVE_B ECO FULL, basic eSam
5710	4812 281 28468	Valve magnet 1 inlet, 2 outlets
5810	4812 271 28554	Pressostat
6233	4801 111 04696	Sensor Drum up
6800	4810 104 24468	Soap dispenser cpl.
6910	4812 282 19485	Sensor NTC
7010	4812 530 29256	Hose inlet 1.5 m (Eltek)
7020	4812 530 29453	Hose valve-dispenser
7070	4810 104 24466	Nozzle box cpl.
7071	4812 526 48049	Clamp f. nozzle box
7430	4812 418 68182	Chamber,air
7540	4812 530 29267	Drainhose
7541	4812 530 28832	Lock eco
7542	4812 530 29352	Flange eco
7552	4812 530 29462	Hose Air Exhaust
7553	4812 530 29463	Cover exhaust hose
7630	4812 480 58403	Filter
7810	4819 530 29035	Hose draining
7830	4812 530 29268	Hose Pressostat
9000	4819 401 18686	Clamp hose
9001	4819 401 18872	Clamp hose
9004	4812 401 18431	Clamp to pump
9005	4819 401 18529	Clamp hose
9009	4812 255 18304	Holder hose
9040	4812 281 18069	Cover for top frame
9041	4812 462 79974	Cap Transport blocking
9100	4812 502 48347	Screw,selftap 3,5x14
9101	4812 502 38151	Screw 4x14
9102	4801 101 00801	Screw M8x18
9103	4801 111 04699	Screw M8x22,5/DD
9104	4801 111 04698	Screw 8x23
9105	4812 502 18423	Screw PT 7x15
9106	4801 111 02619	Nut M8
9107	4801 111 04284	Screw 8x40
9108	4801 111 04697	Screw 8x28
9109	4801 111 04701	Washer 8.4x25x2
9301	4812 492 48171	Torsions spring
9302	4812 492 48086	Spring
9303	4801 111 01911	Clamp heatingelement
9410	4812 310 19144	Bearing kit ALL 1100
9411	4812 520 28002	Bearing,ball 6203 2Z C3

Pos	12NC	Description
9412	<b>4801 111 04702</b>	Bearing
9500	<b>4810 730 85033</b>	Shaft seal V22, NBR562
9501	<b>4812 520 28073</b>	Ring counterface
9502	<b>4810 730 85082</b>	O-Ring 35x3 NBR
9503	<b>4810 103 95017</b>	Gasket airtrap
9504	<b>4801 111 04703</b>	Shaft seal
9930	<b>4819 530 29028</b>	U Curve for outlet hose
9991	<b>4812 400 18048</b>	Pin transp. safety

## Exploded View



W10688573



## Technical Data

### Dimensions + Weight

Product dimensions	
Height .....	85 cm
Width .....	40 cm
Depth .....	60 cm
Weight	
net .....	58 kg

### Electrical base data

Voltage .....	230 V $\pm$ 10 %
Frequency .....	50 Hz
Fuse .....	10 A
Power Consumption .....	~2.3 kW

### Drum data

Volume .....	42 l
Wash speed .....	52 rpm
Spinning	
max. ....	1200 rpm

### Drum up sensor

.....	(SE - Hall Sensor)
Nominal voltage .....	4.2 - 24 V DC

### Pressostat

Level1 .....	11 - 12/14
Overflow .....	11 - 16

### Door lock

Kind of switch .....	Switch with PTC heater of bimetal
Nominal voltage .....	230 (90 - 264) V
Locking time .....	$\leq$ 5 s
Unlock time .....	$\leq$ 180 s

### Inlet valve

Nominal voltage .....	220 - 240 V / 50 Hz
Rated flow .....	(1.5 - 5 bar) ..... 8 l/min
Pressure range .....	0.3 - 10 bar
Nominal resistance .....	(20 °C) ..... 3.8 k $\Omega$

## Drain pump

Nominal voltage .....	220 - 240 V / 50 Hz
Total power .....	26 W
Resistor (coil) .....	224 $\Omega$
Capacity .....	14 $\pm$ 2 l/min
Position of draining hose outlet .....	0.9 - 1.25 m

## Heating element

Nominal voltage .....	230 V +10%, -15%
Total power .....	2050 W
Resistance (20 °C) .....	23.9 / 25.8 $\Omega \pm 5 \%$
Leakage current .....	< 0.8 mA
NTC sensor	
Resistance NTC	

0 °C	35.9	k $\Omega$
30 °C	9.8	k $\Omega$
40 °C	6.6	k $\Omega$
50 °C	4.6	k $\Omega$
60 °C	3.2	k $\Omega$
70 °C	2.3	k $\Omega$
95 °C	1.1	k $\Omega$

## Motor

Resistance contacts .....	(25 °C) .....	15.5 $\Omega \pm 5 \%$
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## Control unit

Type .....	WAVE
Nominal voltage .....	230 V / 50 Hz
Output control unit	

MCU DD	MS2.1 - MS2.2	230 V
Aquastop	AQ2.2 - DSS3.2	230 V
In pump step	AQ2.1 - DSS3.2	230 V
NTC	Not measurable	—
Pump	DP2.1 - DP2.2	230 V
Doorlock	DSS3.1 - DSS3.3	230 V
Pressostat	E4 - E2	230 V
- empty	PR2.1 - E2	230 V
- full	PR2.2 - E2	230 V
Valve (Rast 2.5)	V2.1 - V2.2	>170 V
Options	Not measurable	—

**Motor control unit (MCU)**

Type ..... Direct Drive  
Nominal voltage ..... 220 - 264 V  
Frequency ..... 48 - 62 Hz



**Legend**

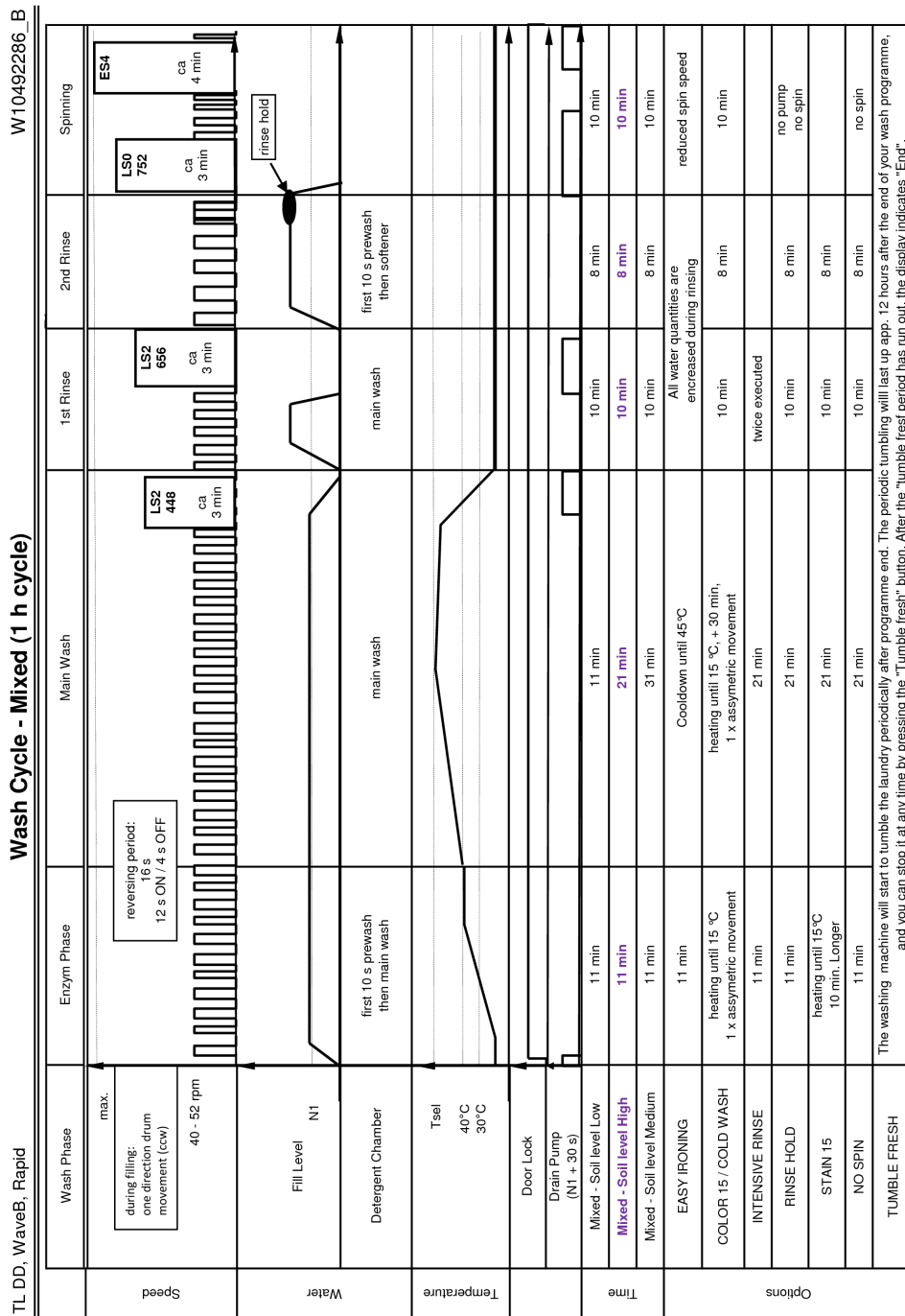
00	black
11	brown
22	red
33	orange
44	yellow
55	green
66	blue
77	violet
88	grey
99	white
45	yellow/green



## Legend

AQS	aquastop switch
CUC	control unit (F1, F2)
DP	drain pump
DSS	door safety switch
DU	sensor, drum up
E...	external module (see table)
B...	external module (see table)
FM	flow meter
HE	heating element
IF	interference filter
M	motor drive
MCU	control unit, motor
PR	pressostat
SE	sensor, hall effect
SET	sensor, temperature
SM	switch, mains
V	valve, double
VW	valve, mainwash
VPW	valve, prewash

## Program Chart





W10492286\_B

## Wash Cycle - Cotton 60°C

TL DD, WaveB, Rapid

	Wash Phase	Prewash	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	Spinning
Speed	max. during filling: one direction drum movement (cw) 40 - 52 rpm		reversing period: 16 s 8...14 s ON / 8...2 s OFF		LSO 656 (448) ca 4 min	LSO 656 ca 4 min	LSO 656 rpm 4 min A2+ LSO Max. rpm 10 min A3+ / A2+ ES2 Max. rpm 6 min A2+
Water	Fill Level N1	prewash		main wash	main wash	main wash	rinse hold
Temperature	Detergent Chamber Tsel 40°C 30°C			main wash			
	Door Lock						
	Drain Pump (N1 + 30 s)						
Time	Large load / High Soil level	18 min	18 min	~96 min	14 min	8 min	14 min
	Mid load	18 min	18 min	~71 min	14 min	8 min	14 min
	Small load*	18 min	18 min	~24 min	14 min	8 min	14 min
	Medium soil level	18 min	18 min	~17 min (small load) / ~56 min (mid load) / ~76 min (large load)	14 min	8 min	14 min
	Low soil level	18 min	18 min	~12 min (small load) / ~41 min (mid load) / ~56 min (large load)	14 min	8 min	14 min
	CLEAN PLUS	5 minutes longer	5 minutes longer	~96 min	14 min	8 min	14 min
	TUMBLE FRESH	The washing machine will start to tumble periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".					
Options	COLOR 15 / COLD WASH	heating until 15 °C					
	RAPID	18 min	18 min	~51 min	14 min	8 min	14 min
	PREWASH	19 min	18 min	~96 min	14 min	8 min	14 min
	NO SPIN	18 min	18 min	~96 min	14 min	8 min	no spin
	INTENSIVE RINSE	18 min	18 min	~96 min	twice executed	8 min	14 min
	STAIN 15	heating until 15°C 10 min. Longer					
	RINSE HOLD	18 min	18 min	~96 min	14 min	8 min	14 min
	EASY IRONING	18 min	18 min	~96 min	14 min	8 min	no pump no spin
		18 min	18 min	Cooldown until 45°C	All water quantities are increased during rinsing (+3L) softer spinning		

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## Wash Cycle - Cotton 40°C

TL DD, WaveB, Rapid

	Wash Phase	Prewash	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	Spinning
Speed	max. 40 - 52 rpm						
Water	Fill Level N1						
Temperature	Detergent Chamber 40°C 30°C						
Time	Door Lock						
	Drain Pump (N1 + 30 s)						
	Large load / High Soil level		18 min	~96 min	14 min	8 min	14 min
	Mid load		18 min	~71 min	14 min	8 min	14 min
	Small load		18 min	~24 min	14 min	8 min	14 min
	Medium soil level		18 min	~17 min (small load) / ~56 min (mid load) / ~76 min (large load)	14 min	8 min	14 min
Options	Low soil level		18 min	~12 min (small load) / ~41 min (mid load) / ~56 min (large load)	14 min	8 min	14 min
	Rapid		18 min	~36 min	14 min	8 min	14 min
	COLOR 15 / COLD WASH		heating until 15 °C		14 min	8 min	14 min
	Prewash	19 min	18 min	~96 min	14 min	8 min	14 min
	Extra Rinse		18 min	~96 min	twice executed	8 min	14 min
	TUMBLE FRESH	The washing machine will start to tumble the laundry periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".					
Clean +		15 minutes longer	~96 min	14 min	8 min	14 min	
STAIN 15		heating until 15 °C 10 min. Longer	~96 min	14 min	8 min	14 min	
Easy Ironing		18 min	Cooldown until 45 °C	14 min	8 min	14 min	softer spinning

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## Wash Cycle - Synthetic, Sport

TL DD, WaveB, Rapid

	Wash Phase	Prewash	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	3rd Rinse	Spinning
Speed	max. during filling: one direction drum movement (ccw)  40 - 52 rpm		reversing period: 16 s 10 s ON / 6 s OFF and 12 s ON / 4 s OFF		LS3 848 ca. 3 min	LS3 848 ca. 3 min	LS0 752 ca. 9 min	ES2 ca. 4 min
Water	Fill Level N1	prewash	first 10 s prewash then main wash	main wash	main wash	main wash	10 s prewash then softener	
Temperature	Tsel 40°C 30°C							
	Door Lock							
	Drain Pump (N1 + 30 s)							
Time	Easy Care 40/60 Low Soil	15 min	15 min	25 ... 40 min	10 min	10 min	7 min	8 min
	Easy Care 40/60 Mid Soil	15 min	15 min	45 ... 60 min	10 min	10 min	7 min	8 min
	Easy Care 40/60 High Soil	15 min	15 min	65 ... 80 min	10 min	10 min	7 min	8 min
Options	TUMBLE FRESH	The washing machine will start to tumble the laundry periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "Erd".						
	CLEAN PLUS	+ 15 min		45 ... 60 min	10 min	10 min	7 min	8 min
	COLOR 15 / COLD WASH	heating until 15 °C	heating until 15 °C	heating until 15 °C	10 min	10 min	7 min	8 min
	RAPID	15 min	15 min	5 ... 20 min	10 min	10 min	7 min	8 min
	PREWASH	19 min	15 min	45 ... 60 min	10 min	10 min	7 min	8 min
	NO SPIN	15 min	15 min	45 ... 60 min	10 min	10 min	7 min	No spin
	INTENSIVE RINSE	15 min	15 min	45 ... 60 min	twice executed	10 min	7 min	8 min
	STAIN 15	heating until 15°C 10 min, Longer	15 min	45 ... 60 min	10 min	10 min	7 min	8 min
	RINSE HOLD	15 min	15 min	45 ... 60 min	10 min	10 min	7 min	no pump no spin
	EASY IRONING	15 min	15 min	45 ... 60 min	10 min	10 min	7 min	reduced spin speed
				Cooldown until 45°C	reduced spin speed, All water quantities are increased during rinsing (+2L)			reduced spin speed

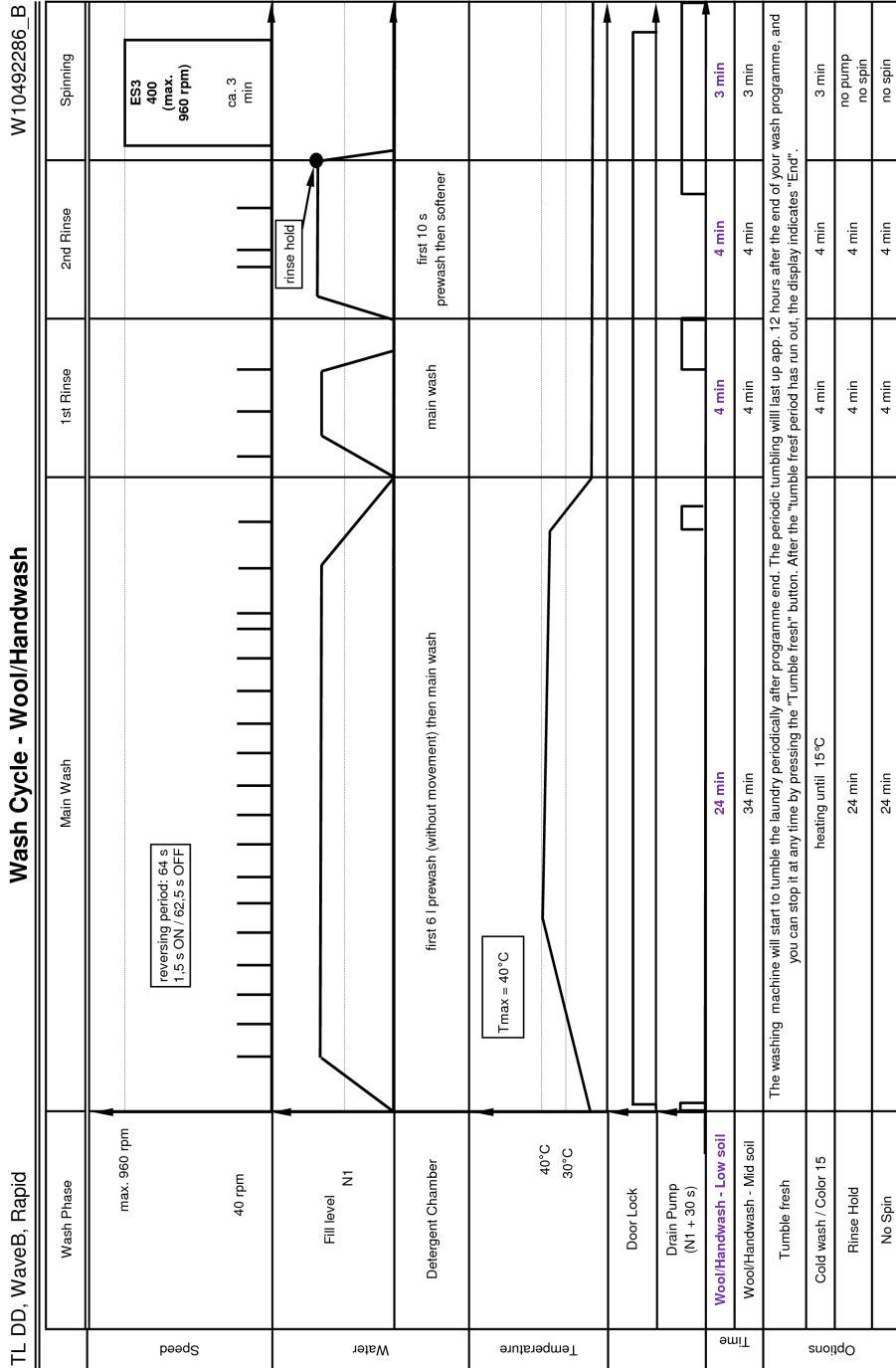
(1) Sport/Leisure/Outdoor: Synthetic 30°C with integrated prewash option

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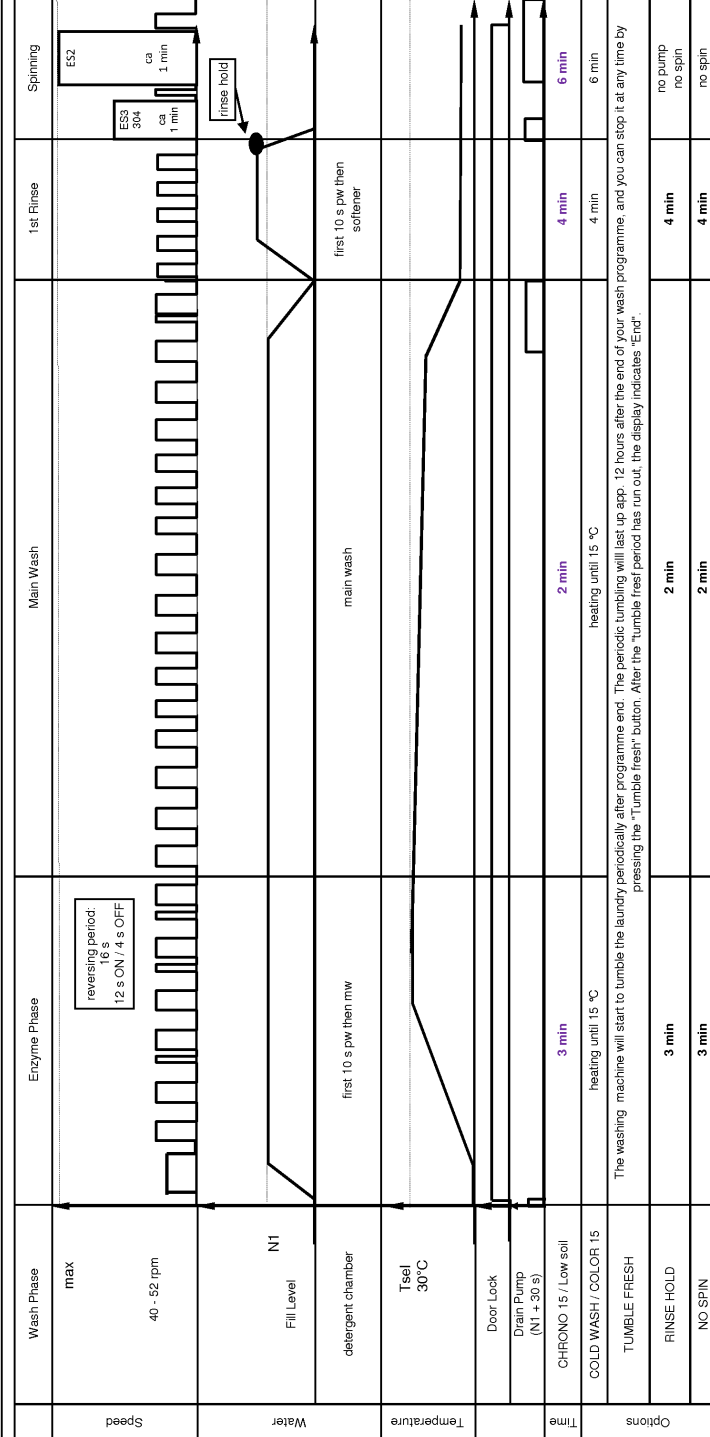
## Wash Cycle - Delicate

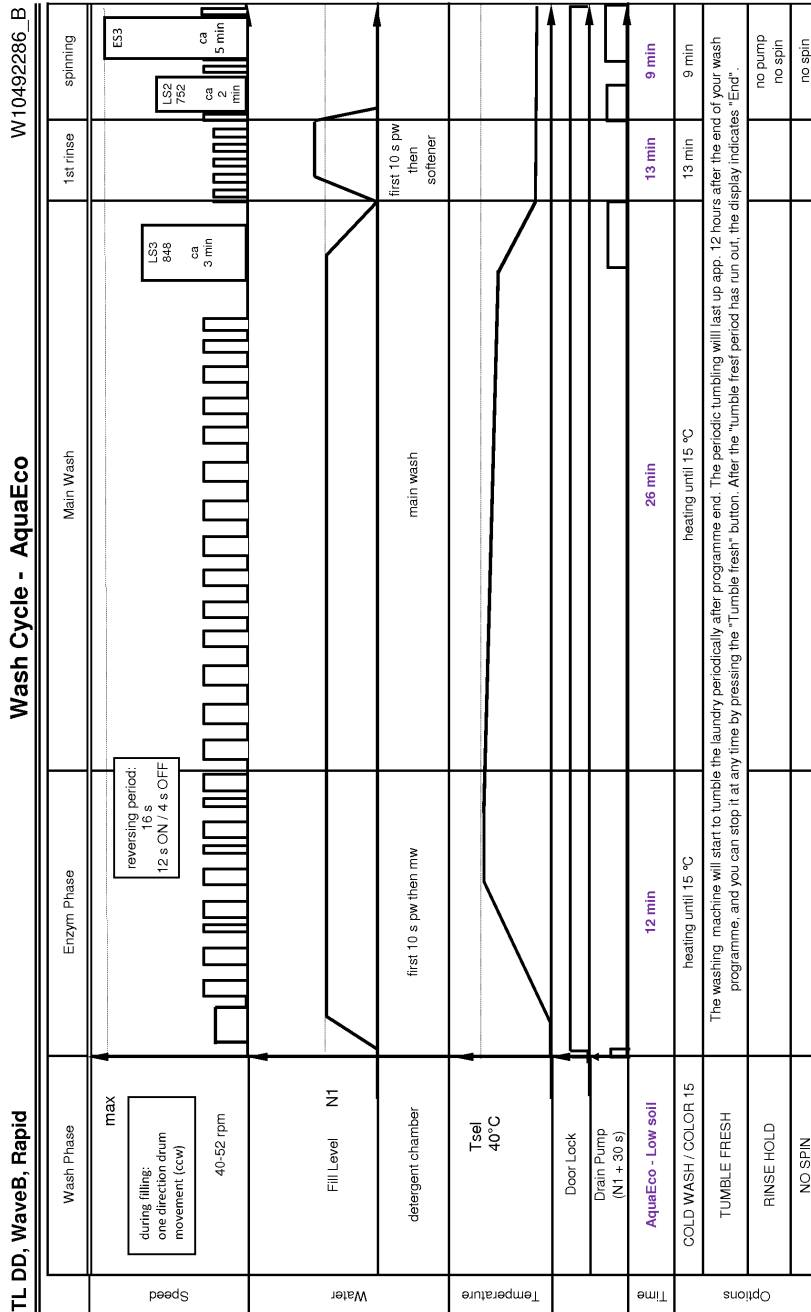
TL DD, WaveB, Rapid

	Wash Phase	Prewash	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	3rd Rinse	Spinning
Speed	960 rpm  40 - 52 rpm		reversing period: 16 s 4 s ON / 12 s OFF					ES3 960 ca 3 min LS0 960 ca 3 min
Water	Fill Level N1	prewash	first 6 l prewash (without movement) then main wash	main wash	main wash	main wash	first 10 s prewash then softener	
Temperature	40°C 30°C							
	Door Lock							
	Drain Pump (N1 + 30 s)							
Time	Delicate / Low soil		3 min	22 min	3 min	3 min	4 min	8 min
	Delicate / Mid soil		3 min	37 min	3 min	3 min	4 min	8 min
	TUMBLE FRESH	The washing machine will start to tumble periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".						
Options	COLOR 15 / COLD WASH	heating until 15 °C	heating until 15 °C		3 min	3 min	4 min	8 min
	PREWASH	19 min	3 min	22 min	3 min	3 min	4 min	8 min
	RINSE HOLD		3 min	22 min	3 min	3 min	4 min	no pump no spin
	NO SPIN		3 min	22 min	3 min	3 min	4 min	no spin



TL DD, WaveB, Rapid Wash Cycle - Speed15 W10492286\_B





W10492286\_B

### Wash Cycle - EcoCotton 40°C, 60°C (Reference programmes)

	Wash Phase	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	Spinning
Speed	max. during filling: one direction drum movement (ccw)  40 - 52 rpm					
Water	Fill Level N1				rinse hold	
Temperature	Detergent Chamber  Tsel 40(30)°C 30°C				main wash	
Time	Door Lock  Drain Pump (N1 + 30 s)  EcoCotton 40 / 60 Large load / High Soil	23 min	115 ... 130 min	13 min	13 min	32 min
	EcoCotton 40 / 60 Load detected: medium	23 min	69 ... 84 min	13 min	13 min	32 min
	EcoCotton 40 / 60 Load detected: small	23 min	10 ... 20 min	13 min	13 min	9 min
	EcoCotton 60 / Mid soil	23 min	20 min (small load) / 58 min (mid load) / 112 min (large load)	13 min	13 min	32 min
	EcoCotton 40 / Mid soil	23 min	5 min (small load) / 43 min (mid load) / 97 min (large load)	13 min	13 min	32 min
	EcoCotton 60 / Low soil	23 min	7 min (small load) / 31 min (mid load) / 48 min (large load)	13 min	13 min	32 min
	EcoCotton 40 / Low soil	23 min	6 min (small load) / 21 min (mid load) / 36 min (large load)	13 min	13 min	32 min
	INTENSIVE RINSE	23 min	115 ... 130 min	twice executed	13 min	32 min
	COLD WASH / COLOR 15	heating until 15 °C	heating until 15 °C	13 min	13 min	32 min
Options	TUMBLE FRESH  RINSE HOLD  NO SPIN	The washing machine will start to tumble the laundry periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble Fresh" button. After the "tumble fresh" period has run out, the display indicates "End".  23 min 23 min	115 ... 130 min 115 ... 130 min	13 min 13 min	13 min 13 min	no pump no spin no spin

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### Wash Cycle - SuperEco, SuperSilent

	Wash Phase	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	Spinning
Speed	max. during filling: one direction drum movement (ccw)  40 - 52 rpm	reversing period: 10 s ON / 8 s OFF	reversing period: 16 s and 32 s 7...11 s ON / 5...9 s OFF and 10 s ON / 22 s OFF	LSO 656 ca. 5 min	LSO 656 4 min A2+ ES2 Max. rpm 6 10 min A3+ / 6.5kg A2+	LSO 656 4 min A2+ ES2 Max. rpm 6 10 min A3+ / 6.5kg A2+
Water	Fill Level N1	first 10 s prewash then main wash	main wash	main wash	first 10 s prewash then softener	rinse hold
Temperature	Tsetl (30)40°C					
	Tstart					
	Door Lock					
	Drain Pump (N1 + 30 s)					
	Large load - High soil level	23 min	160 min	21 min	18 min	18 min
	Mid load	23 min	70 min	21 min	18 min	18 min
	Small load	23 min	40 min	21 min	18 min	18 min
	Mid soil level	23 min	5min (small load) / 40 min (mid load) / 100 min (large load)	21 min	18 min	18 min
	Low soil level	23 min	5 min (small load) / 25 min (mid load) / 38 min (large load)	21 min	18 min	18 min
	COLD WASH / COLOR 15	heating until 15 °C	heating until 15 °C	21 min	18 min	18 min
	INTENSIVE RINSE	23 min	160 min	twice executed	18 min	18 min
Options	TUMBLE FRESH	The washing machine will start to tumble the laundry periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".				
	RINSE HOLD	23 min	160 min	21 min	18 min	no pump no spin
	NO SPIN	23 min	160 min	21 min	18 min	no spin



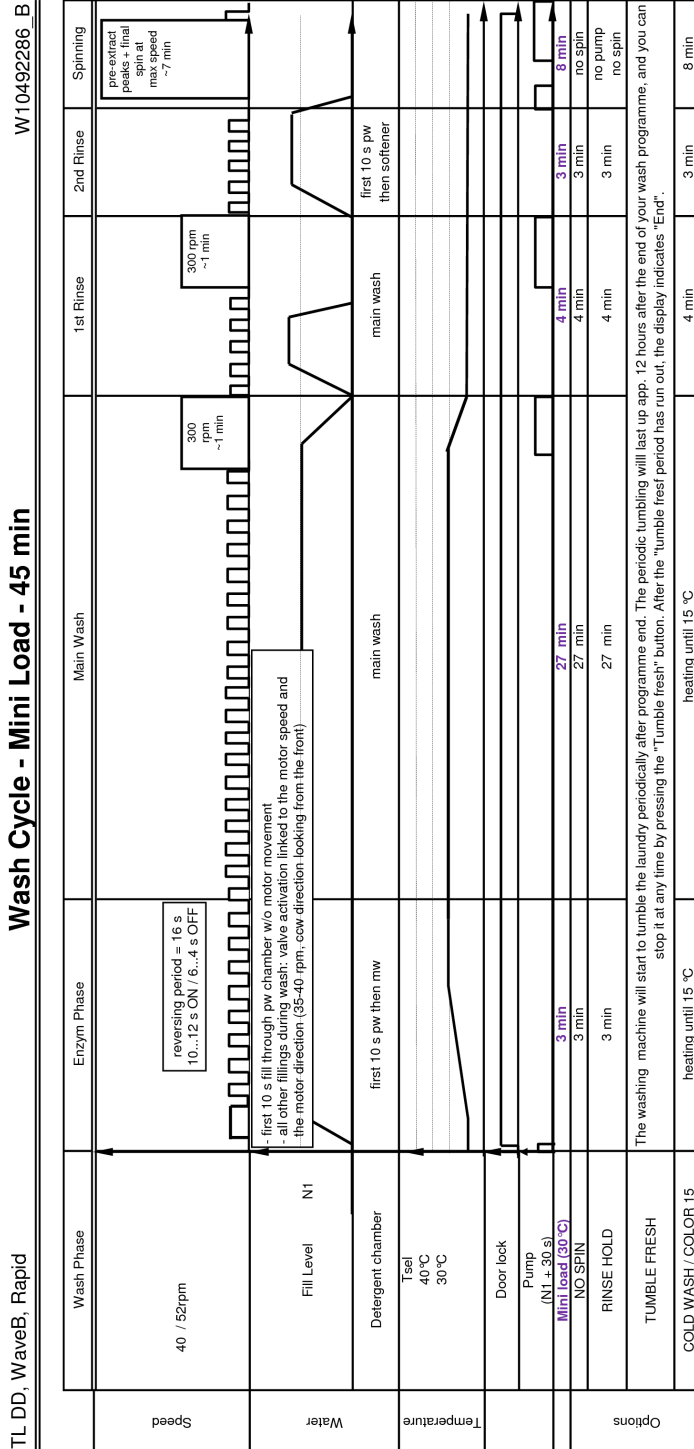
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Speed	Wash Phase	Prewash	Enzyme Phase	Main Wash	1st Rinse	2nd Rinse	3rd Rinse	Spinning
max.								
40-52 rpm		reversing period = 16 s 6 s ON / 10 s OFF	2x3min asymmetric movement 7-4-4-7					pre-extraction peaks + final spin at 1200 rpm max ca. 3 min
Water	Fill Level N1							
	Detergent Chamber	prewash	first 10 s prewash then mainwash	main wash	main wash	main wash	first 10 s prewash then softener	
Temperature	Tmax = 60°C 40°C							
	DoorLock							
	Drain Pump (N1 + 30 s)							
Time	Dark Colors - Large load / Medium soil	16 min	16 min	~49 min	9 min	9 min	8 min	9 min
	Dark Colors - Small load	16 min	16 min	~19 min	9 min	9 min	8 min	9 min
	Dark Colors (40°C) / High soil level	16 min	16 min	27 min (small load) / 69 min (large load)	9 min	9 min	8 min	9 min
	Dark Colors (40°C) / Low soil level	16 min	16 min	11 min (small load) / 29 min (large load)	9 min	9 min	8 min	9 min
Options	PREWASH	19 min	16 min	~49 min	9 min	9 min	8 min	9 min
	RAPID	16 min	16 min	~19 min	9 min	9 min	8 min	9 min
	COLD WASH / COLOR 15	heating until 15°C	heating until 15°C	heating until 15°C	9 min	9 min	8 min	9 min
	EXTRA RINSE	16 min	16 min	~49 min	twice executed	9 min	8 min	9 min
	TUMBLE FRESH	The washing machine will start to tumble periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".						
	RINSE HOLD	16 min	16 min	~49 min	9 min	9 min	8 min	No pump No spin
	STAIN 15	heating until 15°C 10 min. Longer	16 min	~49 min	9 min	9 min	8 min	9 min
	NO SPIN	16 min	16 min	~49 min	9 min	9 min	8 min	No spin

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		Wash Cycle - Whites only				
	Wash Phase	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	Spinning
Speed	max. during filling: one direction drum 40 - 52 rpm	reversing period: 16 s 10 s ON / 6 s OFF	LS0 656 ca 4 min	LS0 656 ca 4 min	LS0 656 ca 4 min	LS0 656 ca 4 min ES2 Max. 1 rpm 10 min A3+ / A2+
Water	Fill Level N1	first 10 s prewash then main wash	main wash	main wash	first 10 s prewash then softener [rinse hold]	
Temperature	Detergent Chamber  Tsel 40 °C 30 °C					
	Door Lock					
	Drain Pump (N1 + 30 s)					
Time	Large load / High Soil level	18 min	~ 111 min	14 min	8 min	14 min
	Mid load	18 min	~ 71 min	14 min	8 min	14 min
	Small load	18 min	~ 24 min	14 min	8 min	14 min
	Medium soil level	18 min	~ 17 min (small load) / ~ 56 min (mid load) / ~ 91 min (large load)	14 min	8 min	14 min
	Low soil level	18 min	~ 12 min (small load) / ~ 41 min (mid load) / ~ 71 min (large load)	14 min	8 min	14 min
	COLD WASH / COLOR 15	heating until 20 °C	heating until 20 °C	14 min	8 min	14 min
Options	TUMBLE FRESH	The washing machine will start to tumble the laundry periodically after programme end. The periodic tumbling will last up app. 12 hours after the end of your wash programme, and you can stop it at any time by pressing the "Tumble fresh" button. After the "tumble fresh" period has run out, the display indicates "End".				
	INTENSIVE RINSE	18 min	~ 111 min	twice executed	8 min	14 min
	RINSE HOLD	18 min	~ 111 min	14 min	8 min	no pump no spin
	NO SPIN	18 min	~ 111 min	14 min	8 min	no spin

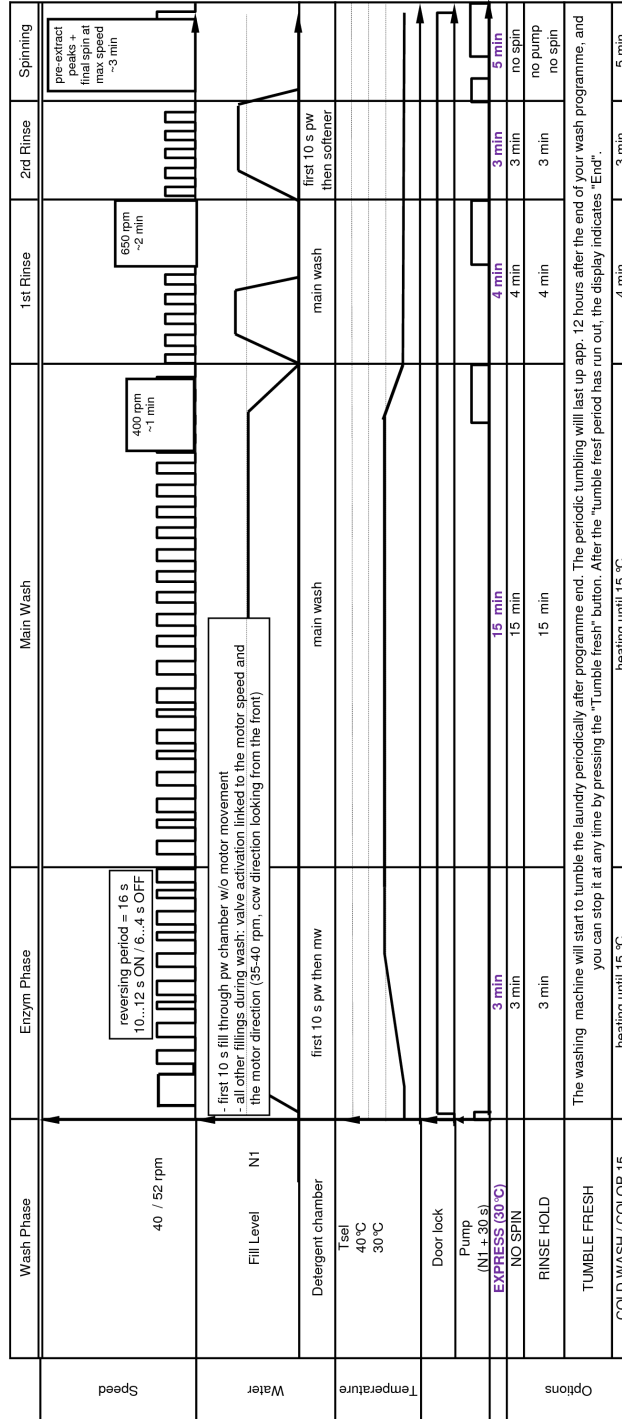




W10492286\_B

## Wash Cycle - Express 30

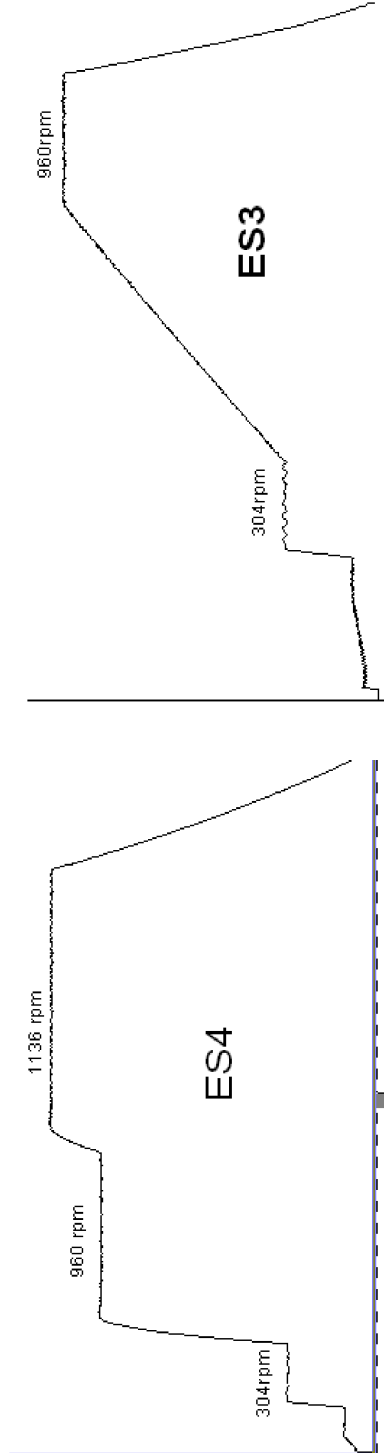
TL\_DD, WaveB, Rapid



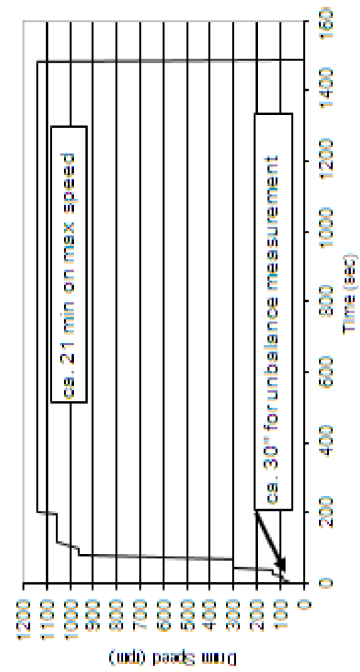
		Wash Cycle - Bed linen					W10492286_B	
	Wash Phase	Prewash	Enzym Phase	Main Wash	1st Rinse	2nd Rinse	3rd Rinse	Spinning
Speed	max.							
	40 - 52 rpm							
Water	Fill Level L1							
	Delegent Chamber							
Temperature								
	Door Lock							
	Drain Pump (NI + 30 s)							
	Bed linen 60		15 min	~ 55 min	14 min	14 min	10 min	12 min
	Prewash	19 min	15 min	~ 55 min (60°C)	14 min	14 min	10 min	12 min
	Extra Rinse		15 min	~ 55 min (60°C)	twice executed	14 min	10 min	12 min
	TUMBLE FRESH							
Options	STAIN 15		heating until 15°C 10 min. Longer	~ 55 min (60°C)	14 min	14 min	10 min	12 min
	RINSE HOLD		15 min	~ 55 min (60°C)	14 min	14 min	10 min	No pump No spin
	NO SPIN		15 min	~ 55 min (60°C)	14 min	14 min	10 min	No spin
	COLD WASH/ COLOR 15		heating until 20 °C	heating until 20 °C	14 min	14 min	10 min	12 min
	Easy Ironing		15 min	~ 55 min (60°C)				softer spinning

TL DD, WaveB, Rapid W10492286\_B

### Wash Cycle - Spin profiles A2+



### ES2 profile \*

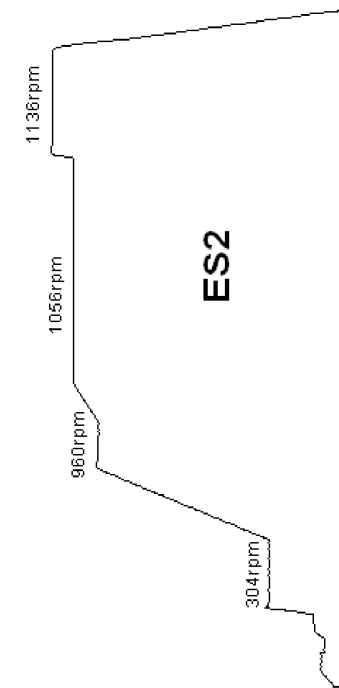
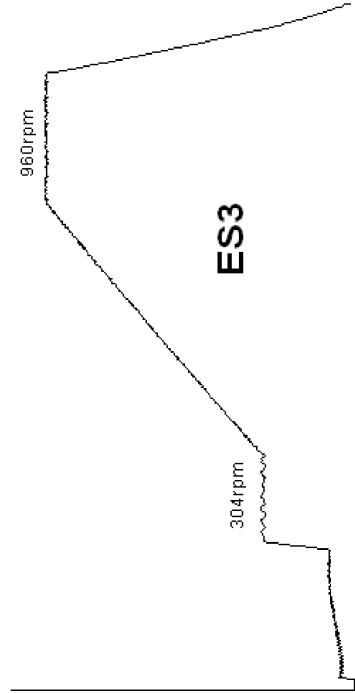
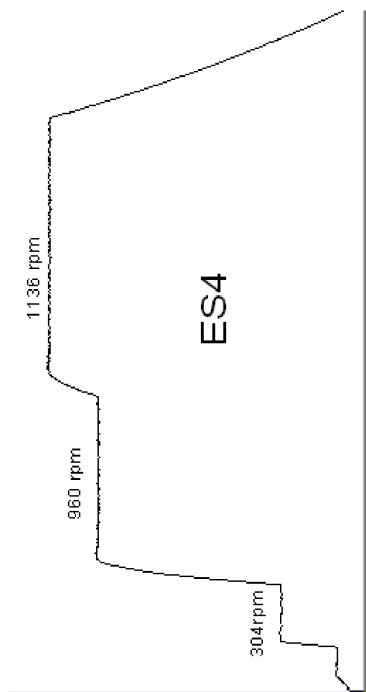
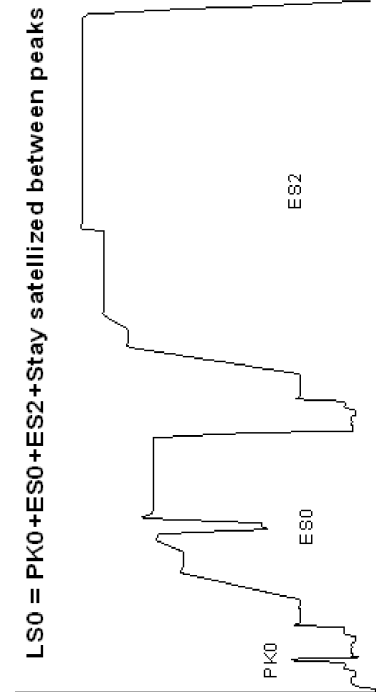


\* Spin profile shows complete duration as it is used in EcoCotton programs (NEL).


W10492286\_B

Wash Cycle - Spin profiles A3+



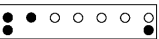

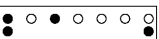



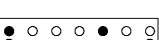

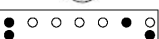
TL DD, WaveB, Rapid



## Testprogram

	<b>For appliances with program selection with a rotary knob.</b>
1.	Close the door.
2.	Select the first mechanically available position of the rotary program selector on the left of the OFF position (usually "DRAIN" or "SPIN").
3.	Press push button Reset 4 times within 5 seconds.
4.	The last Fault code is shown in the display, press the Start button to advance.
5.	The 2nd to last Fault code is shown in the display, press the Start button to advance.
6.	The 3rd to last Fault code is shown in the display, press the Start button to start the Test Program.
7.	To go to next step, press the Reset button twice.
8.	To go to step C5, press the Start button once.




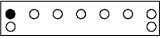

### Attention: Use the test program only without laundry!



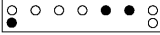









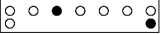
ICON - Phases	Digits Temperature	Description of the Program Flow	Check to perform
 Icons are switched on and off in a sequence from left to right and back.	C0	The door is locked. The CCU is performing the Selftest.	CCU detects: • F02, F05, F08, F12, F13, F14, F15, F21, F23, F26
 	C1	Fill x seconds hot valve (only if hot fill appliance) Fill x seconds in prewash (PW) Fill x seconds in mainwash (MW) Fill x seconds in PW + MW (Softener) Fill by MW to wash level. Motor is reversing.	Technician: • Check the valve activation • Check the dispensing into the dispenser • Check the pressure switch • <b>Note:</b> X seconds for filling depend by the model. For washers produced before than 07/2011 is 15 seconds. After 07/2011 is 5 seconds
 	C2	The heating element is switched ON. Motor is reversing.	Technician: • Check heating element activation • Check if the motor is reversing  CCU detects: • F06, F07, F27
 	C3	The drain pump is switched ON until the wash level = OFF + 5" motor is reversing.	Technician: • Check drain pump activation • Check pressure switch operation • Check if the motor is reversing  CCU detects: • F06, F07, F27, F03
 	C4	The motor is driven to maximum speed. Drain pump is ON.	Technician: • Check if the motor is running at max. speed • Check drain pump activation  CCU detects: • F28
 	C5	Motor is switched OFF. Door is unlocked. Washer Machine is OFF	Technician: • Check if the door is unlocked  CCU detects: • F13

Digits of "Rest time" are executing an animation, Digits of "Speed" are OFF

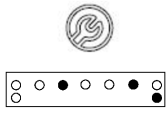



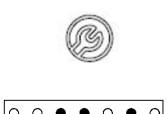
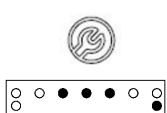
WAVE ECO W10502177

## Error Codes

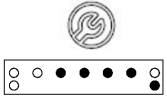

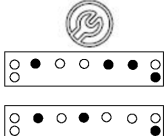

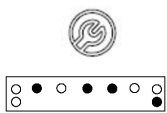
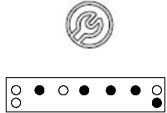
Failure Indication		Explanation and Recommended Procedure
Icon Active	On Digits 3 - 5	
Appliance "dead"	no indication at all or read out by ESAM F60 - F63	<p><b>CCU failure</b></p> <p><b>Potential Causes</b></p> <p>Read out failure code with ESAM:</p> <ul style="list-style-type: none"> <li>• If F60 - F63 is displayed:</li> <li>• Check if NTC has a short circuit.</li> <li>• Check if NTC wiring has a short circuit</li> <li>• If NTC and wiring is ok, change the CCU</li> </ul>
		<p><b>Door Lock failure</b></p> <p>If the CCU is not able to lock the door of the washer after program start within 20", CCU is going to selection mode (LED of start/pause button is flashing)</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• mechanical issue with door/ door hook/ door lock interface</li> <li>• door not completely closed</li> <li>• door lock issue</li> </ul>
<p>During normal cycle execution</p>  <p>During test program</p>  	<p>During normal cycle execution</p> <p>Remaining Time</p> <p>During test program</p> <p>F01</p>	<p><b>No water detected entering machine or pressure switch trip not detected.</b></p> <p>If after 6 minutes the control does not detect water entering machine, then valves will be turned off and the LED Water Tap will be switched ON.</p> <p>The Control is in Pause Mode. If it was possible to remove the failure, by pushing PB Start the appliance will restart.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• <b>If there is no water in the unit:</b></li> <li>• Make sure that both valves at the water source(s) are turned on all the way.</li> <li>• Check for plugged or kinked inlet hoses or plugged filter in the inlet valves.</li> <li>• Verify inlet valve operation.</li> <li>• <b>If there is water in the unit:</b></li> <li>• Pressure switch hose is in good condition and properly connected to tub and pressure switch.</li> <li>• Verify there is not a siphon problem.</li> <li>• Verify wire harness connections to; inlet valves, pressure switch and central control unit (CCU).</li> <li>• Check all hoses for possible leaks.</li> <li>• Verify pressure switch operation.</li> <li>• Verify CCU operation.</li> </ul>
	F02	<p><b>Aquastop Failure</b></p> <p>If the aquastop contact on the bottom tray of the appliance is closed for more than 30" an aquastop failure will be detected. In aquastop condition the drain pump will run for 3 to 6 minutes. Afterwards the drain pump is off and the door will unlock.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• <b>If there is water in the bottom tray of the appliance:</b></li> <li>• Check all hoses for any leakage.</li> <li>• Check if there was overfoam due to too much detergent used.</li> <li>• Check the tub for any leakage.</li> <li>• <b>If there is no water in the bottom tray:</b></li> <li>• Check if the aquastop switch has a short circuit.</li> <li>• Check if the aquastop wiring is properly connected.</li> <li>• Verify CCU operation. (Check also for F26: Pump triac short circuit is causing this code.)</li> </ul>

<p>During normal cycle execution</p>  <p>During test program</p>  	<p>Remaining Time</p> <p>During test program</p> <p><b>F03</b></p>	<p><b>Long Drain</b></p> <p>If the drain time exceeds the drain timeout, the LED "clean filter" is turned ON. The timeout is: 4 minutes drains -&gt; 4 minutes impulse draining (10sec.ON /10sec. OFF) -&gt; 4 minutes drain.</p> <p>The control is in Pause Mode. Press start button. If the water can be drained out, the cycle will continue.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the drain hose and make sure it is not plugged or kinked.</li> <li>• Check the drain pump filter for foreign objects.</li> <li>• Check the electrical connections at the pump and make sure the pump is running.</li> <li>• Check the electrical resistance of the drain pump.</li> <li>• The failure can also be generated by too much foam in wash phase. Read also failure description F18.</li> <li>• Check CCU operation.</li> </ul>
 	<p><b>F04</b></p>	<p><b>Too Long Heat Time</b></p> <p>If the water temperature is not increasing over 35 °C during 50 minutes of the first heating step in the cycle the CCU will display this Error.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the electrical resistance of the heating element.</li> <li>• Check Wire Harness connections to the heating element, NTC and CCU.</li> <li>• Check the electrical resistance of the NTC (failure can also occur, when NTC resistance is not changing with temperature).</li> <li>• Check CCU operation</li> </ul>
 	<p><b>F05</b></p>	<p><b>Water Temperature Sensor Error</b></p> <p>If during the water heating step in the wash cycle, the water temperature sensor (NTC) value is out of range, the F05 error code will be displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the NTC resistance.</li> <li>• Check connections to the NTC and CCU.</li> </ul> <p>NTC short circuit (NTC or wiring to NTC): appliance is dead at switch on - read failure code from eeprom: class B failure (F60 - F63)</p>
 	<p><b>F06</b></p>	<p><b>Drive Motor Tachometer Error</b></p> <p>The control is unable to properly detect motor speed (several times) and the machine will shut down.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check wire harness connections between the motor and CCU.</li> <li>• Check the resistance of the tachometer circuit on the motor.</li> <li>• Check resistances of the motor windings.</li> <li>• Check tension of belt and fixation of pulley.</li> </ul>
 	<p><b>F07</b></p>	<p><b>Motor Control Triac Error</b></p> <p>The main control has detected a short circuit in the motor control triac.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check CCU by running Test Program: if failure occurs with universal motor: exchange CCU if failure occurs with CIM, BPM or Direct Drive: exchange motor control unit</li> </ul>
 	<p><b>F08</b></p>	<p><b>Heater Circuit Error open circuit</b></p> <p>The main control has detected a heater circuit failure. These failure modes are checked before the cycle starts and after the spinning steps.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the resistance of the heater connectors to the ground.</li> <li>• Check the resistance of the heater.</li> <li>• Check the wiring connectors to the heater and CCU.</li> <li>• Check the CCU.</li> </ul>

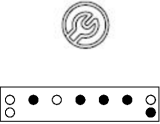
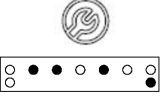
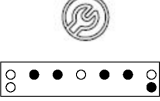
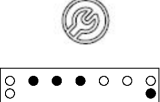
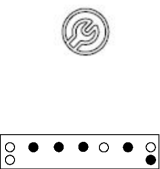
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	<p>F09</p>	<p><b>MCU low voltage (only appliances with external motor control unit like CIM, BPM or Direct Drive)</b></p> <p>The MCU has detected a too low mains voltage (ca. 170V). It's not a defect of any component.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check mains voltage supply</li> </ul>
	<p>F10</p>	<p><b>MCU overheat continuously (only appliances with external motor control unit like CIM, BPM or Direct Drive)</b></p> <p>The MCU has detected a too high temperature.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check for drum blockage (also laundry can block the drum), noise or friction during the drum rotation</li> <li>• Check if the machine was overloaded</li> <li>• Check the ambient temperature -&gt; instruct the customer</li> </ul> <p><b>If the failure is permanent</b></p> <ul style="list-style-type: none"> <li>• Check motor for defect (see F06)</li> <li>• Check if motor control unit is defect</li> </ul>
	<p>F11</p>	<p><b>MCU not initialized / general MCU-failure (only appliances with external motor control unit like CIM, BPM or Direct Drive)</b></p> <p>The MCU failed during self-test.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check harness wires between CCU and MCU and motor</li> <li>• Check motor for defect (see F06)</li> <li>• Start cycle door lock has to lock Relay for MCU on CCU has to close "click-noise" MCU self test starts automatically as soon as MCU is connected to voltage self-test was successful when relay on MCU switches - (can be recognized by click sound).</li> </ul>
	<p>F12</p>	<p><b>Heater Circuit Error short circuit</b></p> <p>The main control has detected a heater circuit failure. These failure modes are checked before the cycle starts and after the spinning steps.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the resistance of the heater connectors to the ground.</li> <li>• Check the resistance of the heater.</li> <li>• Check the wiring connectors to the heater and CCU.</li> <li>• Check the CCU.</li> </ul>
<p>Icon Door open is ON</p> 	<p>F13</p>	<p><b>CCU failure on door lock control circuit</b></p> <p>If CCU detects a defect of the door lock triac, F13 is displayed. This check is performed at start of cycle, during the cycle and at the end of the cycle.</p> <p>If CCU is not able to unlock the door at the end of program in 240 s this code will be displayed. After switch OFF and ON CCU will again try to open DL for 240 s - <b>all Leds and Display will be OFF</b> during this phase, <b>if again not successful Code will appear</b> after 240 s.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the wiring between the CCU and the door lock.</li> <li>• CCU defect</li> </ul>
	<p>F14</p>	<p><b>EEPROM Error</b></p> <p>The CCU receives its data from an EEPROM on board the CCU. If there is an error reading this data it will cause this failure indication.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• A power glitch voltage variation or interruption (mains disturbance) may cause this error: Run the Test Program. This will perform a complete check of the EEPROM. If the failure is detected during the Test Program replace the CCU.</li> </ul>






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	<p><b>F15</b></p>	<p><b>Drum Up Circuit Missing (only for TOPLOADERS with DRUM UP Circuit)</b></p> <p>If the CCU is not detecting the Drum Up switch closing during Motor rotation this failure is displayed. This Error is detected ONLY during the Test Program.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the position of the electromagnetic device.</li> <li>• Check the position of the reed sensors.</li> <li>• Check the resistance of the reed sensor.</li> <li>• Check the wiring connection between the reed sensor and the CCU.</li> </ul>
	<p><b>F18 FoD</b></p>	<p><b>Foam detected During the Wash Cycle</b></p> <p>If the CCU is not able to drain out the water after washing or not able to spin after several trials this alarm code is displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Customer used too much detergent.</li> <li>• Check if there is any problem with the pump hoses.</li> <li>• Check the pump for foreign objects.</li> <li>• Check the electrical resistance of the pump.</li> <li>• Check the electrical resistance of the pressure switch.</li> <li>• Check if pressure switch hose is in good condition and properly connected to tub and pressure switch.</li> <li>• Verify there is not a siphon problem.</li> </ul>
	<p><b>F19 F20</b></p>	<p><b>Relay for MCU on CCU is defect (only appliances with external motor control unit like CIM, BPM or Direct Drive)</b></p> <p>The central control unit has detected, that the relay to switch the MCU ON and OFF is defect (open or short circuit). The relay is placed on the CCU.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the wiring between CCU and MCU</li> </ul>
	<p><b>F21</b></p>	<p><b>User Interface Error (detected only with Smart user interfaces)</b></p> <p>If the communication between user interface module and CCU is disturbed, this Error is displayed. If the failure is displayed on the digits the display module is not able to "talk" to the CCU. If the failure is displayed on the status LED the CCU is not able to contact the Display module.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check wiring connection to the display module.</li> <li>• Check display module.</li> <li>• Check CCU.</li> </ul>
	<p><b>F22</b></p>	<p><b>MCU communication failure (only appliances with external motor control unit like CIM, BPM or Direct Drive)</b></p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check wiring /connection between MCU and CCU (communication wires)</li> <li>• Check MCU function</li> <li>• Check CCU function</li> </ul>
	<p><b>F23</b></p>	<p><b>Pressure switch Failure</b></p> <p>If the CCU detects during the wash cycle that the pressure switch contact for the wash level and the pressure switch level for the heater safety are ON or OFF simultaneously for 10" this failure will be displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the resistance of the pressure switch contacts.</li> <li>• Check the wiring of the connection to the pressure switch and to the CCU.</li> <li>• Start the Test Program. If the problem persists F23 will be displayed.</li> <li>• Check points of F08 / F12 (Failure can be caused also by Heater circuit failure).</li> </ul>

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	<p>F24</p>	<p><b>Overflow Failure</b></p> <p>If the overflow contact on the pressure switch is closed, the drain pump is switched on for 45". The wash programs continue, if the overflow level is reached not more than 4x in a program. The overflow failure indication will occur, if the overflow contact is closed the 5<sup>th</sup> time. In overflow condition, the door will remain locked and the drain will run in interval mode.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the drain hose and make sure it is not plugged or kinked.</li> <li>• Check wiring harness connections between drain pump, pressure switch and CCU.</li> <li>• Check/clean drain pump filter of foreign objects.</li> <li>• Check for drain pump failure.</li> <li>• Check the inlet valve for proper shut off.</li> <li>• Check the pressure switch for proper operation.</li> </ul>
	<p>F26</p>	<p><b>Pump Driver Failure</b></p> <p>If the CCU detects during the wash cycle that the triac of the pump is defective it will display this failure.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the resistance of the pressure switch contacts.</li> <li>• A failure of the pressure switch could also cause the Code.</li> <li>• If OK. Start Service test to check the CCU. If the failure occurs replace the CCU.</li> </ul>
<p>Only during test program</p> 	<p>Only during test program</p> <p>F27</p>	<p><b>Reversing relay failure</b></p> <p>If the CCU detects that the motor is possible to rotate only in one direction this failure is displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check the harness to the motor.</li> <li>• Check the CCU.</li> </ul>
<p>Only during test program</p> 	<p>Only during test program</p> <p>F28</p>	<p><b>Tapped Field Failure</b></p> <p>If the CCU is not able to switch ON the tapped field of the Motor, this failure code is displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if the correct motor is built in.</li> <li>• Check the resistance of the fields of the motor.</li> <li>• Check the harness between Motor and CCU.</li> <li>• If the points above are OK replace the CCU.</li> </ul>
	<p>F29 OR FdL</p>	<p><b>Door Lock can not unlock, mechanical issue of door lock blockage,..</b></p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if there is a mechanical problem on the door lock system (also door and door hook)</li> <li>• Check wiring between the CCU and the door lock.</li> <li>• Start the test program. If problem persists the error code F29 or FdL will be displayed</li> </ul> <p><b>WAVE TCP:</b> Door lock timeout is 4 minutes, but can be expired 2x within the last 16 cycles. If 3<sup>rd</sup> occurrence within 16 cycles: F29 or FdL is displayed The appliance is locked during the failure mode. The appliance can start a new cycle without waiting for unlocking. For unloading the laundry, the customer must wait for unlocking (ca. 4minutes).</p> <p><b>IMPORTANT: The failure indication can be deleted only by running the test program (completely!) or by reprogramming the variant file.</b></p> <p><b>WAVE 2:</b> Door lock timeout is increased to 6minutes F29 or FdL is indicated at 1<sup>st</sup> occurrence. The door lock is not locked during failure conditions. It is not necessary to delete the failure.</p>

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	<p><b>F31</b> or <b>bdd</b></p>	<p><b>Blocked Drum Detected (only for Top Loader appliances)</b></p> <p>CCU detects problems with driving of the motor at the beginning of the cycle or after pause mode when door lock has been unlocked.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if the drum door are properly closed</li> <li>• Check the belt position</li> <li>• Check the F06 case</li> </ul>
	<p><b>Only during test program</b></p> <p><b>F40</b></p>	<p><b>MEB Communication Failure / Low Ambient Temperature</b></p> <p>If there is no communication between CCU and the Myst Extension Board (MEB) or if the ambient temperature is lower than 5 °C this failure code will be displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if there is power at the MEB CU2 connector.</li> <li>• Check if the communication cable is connected to the MEB and to the UI.</li> <li>• Check if the ambient temperature is higher than 5 °C. This is to avoid steaming with ice in the hoses, which would easily cause damages of the hoses.</li> <li>• If the failure code occurs at star of test program, the last cycle was not properly finished. Run a drain cycle, wait until drain cycle is completely finished and start test program again.</li> <li>• If the points above are OK and the failure occurs again, replace the MEB.</li> </ul>
	<p><b>Only during test program</b></p> <p><b>F41</b></p>	<p><b>MEB Control Board Failure</b></p> <p>If there is any failure detected at the Myst Extension Board (MEB) this failure code will be displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if there is power at the MEB CU2 connector.</li> <li>• If the point above is OK replace the MEB.</li> </ul>
	<p><b>Only during test program</b></p> <p><b>F42</b></p>	<p><b>Steamer Component Failure</b></p> <p>If there is any failure at the steamer component or steamer NTC, this failure Code will be displayed.</p> <p><b>Potential Causes</b></p> <p>Disconnect appliance from mains for all checks on steamer:</p> <ul style="list-style-type: none"> <li>• Check the harness between Steamer, steamer NTC and MEB.</li> <li>• Check if there is no fuse or reset able thermostat at open state.</li> <li>• Check the electrical resistance of the Steamer Heater (unplug connector HSG3 from MEB measure resistance between pin 1 and 3: ca. 48-57Ohm - measure at harness connector and not at MEB header).</li> <li>• Check if the steamer NTC is not at open or short-circuit state.</li> <li>• Check if the steamer hoses are connected.</li> <li>• Check if the steamer tube is not blocked.</li> <li>• Check water NTC (in wash unit) and wiring connections (see F04 and F05)</li> <li>• If the points above are OK replace the steamer component.</li> </ul>
	<p><b>Only during test program</b></p> <p><b>F43</b></p>	<p><b>Steam Valve Failure</b></p> <p>If there is no water supply or the steamer valve does not open, this failure code will be displayed.</p> <p><b>Potential Causes</b></p> <ul style="list-style-type: none"> <li>• Check if water supply for the appliance is completely opened.</li> <li>• Check the cable between MEB and valve.</li> <li>• Check power supply from MEB to valve (230V).</li> <li>• Check if the hoses to the valve are connected with no leakage.</li> <li>• If the points above are OK replace the valve.</li> <li>• Re-test the machine and if the failure persists replace the MEB.</li> </ul>

**Domino Class B safety functions:**

- 1) **Wash Level activated during selection mode:**  
The Door is locked and Drain routine is started. If the Drain Pump is not defective the Door will be unlocked after Level N0 + 30 seconds;  
Led (display) status: normal indication  
If Drain Pump is defective Pump failure will be retriven.
- 2) **Drum Speed is higher than 60rpm in selection mode:**  
When the speed > 60 rpm, then after 4 seconds, the doorlock is activated.  
Led (display) status: normal indication
- 3) **Water High Temperature in selection or pause mode:**  
If temperature which NTC sensor is detecting is higher than 50 °C Door Lock will kept locked.  
Led (display) status: normal indication

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