



Service Information

Frontloader Washing machine

AWO/D 41105

8592 325 10000

Last Modification: 01/30/09

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

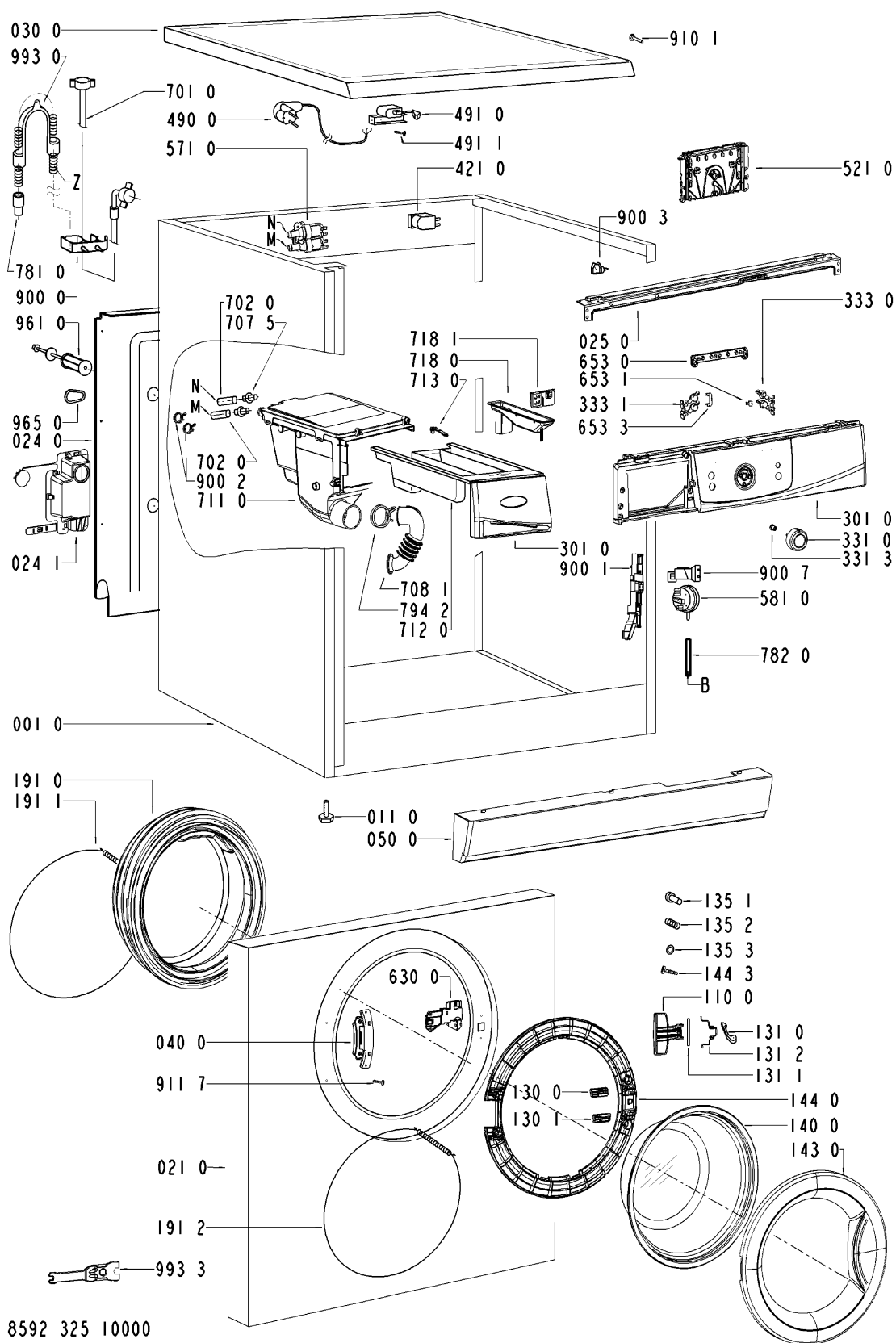
Spare Part List

Pos No	12NC	Description
001 0	4812 440 11469	Cabinet
011 0	4812 500 18099	Adjust. foot M8, 112mm
021 0	4812 440 11471	Front 25
024 0	4812 440 11445	Panel rear 42l
024 1	4812 418 70019	Box outlet hose left
025 0	4812 440 11472	Support control board
030 0	4812 440 11473	Table top UBS possible
040 0	4812 417 18787	Hinge
050 0	4812 440 10779	Plinth GW
061 0	4812 466 88833	Counter weight upper
061 1	4812 466 88607	Counter weight front, bottom
061 2	4819 310 39227	Mounting kit Weight top
061 3	4819 310 39228	Mounting kit Weight bottom
081 0	4812 529 18038	Shock absorber until 1200
084 0	4812 466 58001	Silent bloc
086 2	4812 401 18412	Stopper
110 0	4812 498 18361	Handle door
130 0	4812 417 28047	Plate Door lock
130 1	4812 417 28048	Plate Doorlock Lower
131 0	4812 417 28046	Lock Door
131 1	4812 417 28045	Pin Door Lock
131 2	4812 492 58022	Spring Door Lock
135 1	4812 498 18262	Knob Door safety GW
135 2	4812 491 48004	Spring Door Safety
135 3	4812 290 68153	Holder adjust. Door Safety
140 0	4812 450 58983	Door glass
143 0	4812 440 11141	Glassdoor frame
144 0	4812 440 11139	Frame door glas
144 3	4812 502 18669	Screw 4.0x12
191 0	4812 460 68532	Door bellow WH grease resistance
191 1	4812 492 18017	Strap
191 2	4812 492 98011	Strap
200 1	4812 418 18475	Tub, half 42l front
200 2	4819 418 18377	Tub non removable 600/1000
200 4	4812 290 88054	Clamp for tub
220 0	4812 418 18579	Drum to 1000/42L/PP/CP2/D
271 0	4819 358 18143	Belt
272 0	4812 528 58041	Pulley 298/5 arm
272 3	4812 505 18371	Nut M 12
292 0	4812 530 58101	Gasket Tub
301 0	4812 452 16631	Control panel + handle drawer
331 0	4812 414 58306	Knob timer EBL WP25
331 3	4812 414 58307	Spring Knob timer
333 0	4812 513 18172	Push button start-reset
333 1	4812 410 29401	Push button 2 options
400 0	4812 361 58439	Motor BSH, 1BA5736-OWB
400 1	4812 502 18705	Screw M8x35
409 0	4812 362 48436	Brush,carbon Siemens RI 222 528

Pos No	12NC	Description
421 0	4812 121 18285	Interf.filter 1,00 μ F
430 0	4812 360 18559	Pump
451 0	4812 259 28917	Heating element 2050W,230V + NTC
480 0	4812 321 78263	Cable DOMINO-MOT 6
490 0	4819 321 18136	Cable mains 2m SA
491 0	4812 321 28367	Strain relief
491 1	4812 502 38152	Screw 4.8x19
521 0	4812 214 79955	Control board DOMINO, programmed
521 0	4812 282 10207	Control unit Basic DOMINO, SAM
571 0	4812 271 28558	Valve magnet 1 inlet, 2 outlets
581 0	4812 271 28583	Pressostat
630 0	4812 280 58048	Door lock 3 tab
653 0	4812 134 18046	Light guide PROG.FLOW LOW
653 1	4812 134 18047	Guide,light start low
653 3	4812 134 48362	Guide,light options low
691 0	4812 282 19485	Sensor NTC SC1,OMEGA3,DOMINO
701 0	4812 530 29329	Hose inlet EN 11770 Reflex
702 0	4812 530 29405	Hose valve-dispenser
707 5	4812 310 19102	Nozzle
708 1	4812 530 48143	Bend
711 0	4812 418 68379	Dispenser 3 ch.
712 0	4812 418 68381	Drawer
713 0	4812 418 68382	Safety device drawer
718 0	4812 526 48226	Siphon
718 1	4812 418 89066	Separator
753 1	4819 418 68234	Chamber,air
754 0	4812 530 29407	Drainhose
754 1	4812 530 28832	Lock eco
754 2	4812 530 28829	Flange eco
760 0	4819 480 58106	Cover pump
781 0	4812 530 29425	Hose draining
782 0	4812 530 28827	Hose Pressostat
794 2	4812 401 18549	Clamp hose
794 5	4812 530 58098	Gasket airtrap
900 0	4812 255 18204	Holder Hose outlet
900 1	4812 290 88049	Bracket
900 2	4812 401 18501	Clamp hose 19.2 mm
900 3	4812 401 18446	Cable clamp
900 4	4812 401 18414	Clamp hose
900 5	4819 401 18529	Clamp hose
900 6	4812 290 18031	Clamp heatingelement+screw
900 7	4812 255 18205	Holder Pressostat
910 1	4812 502 48344	Screw
911 7	4812 903 08196	Screw M 5X14-Z
930 0	4819 492 38139	Spring Suspension
941 0	4812 520 28066	Bearing,ball 6204
941 1	4812 520 28002	Bearing,ball 6203 2Z C3
953 0	4819 532 78224	Ring
961 0	4819 532 68829	Spacer
965 0	4812 466 68545	Cover BK/WH
993 0	4819 530 29028	Bow

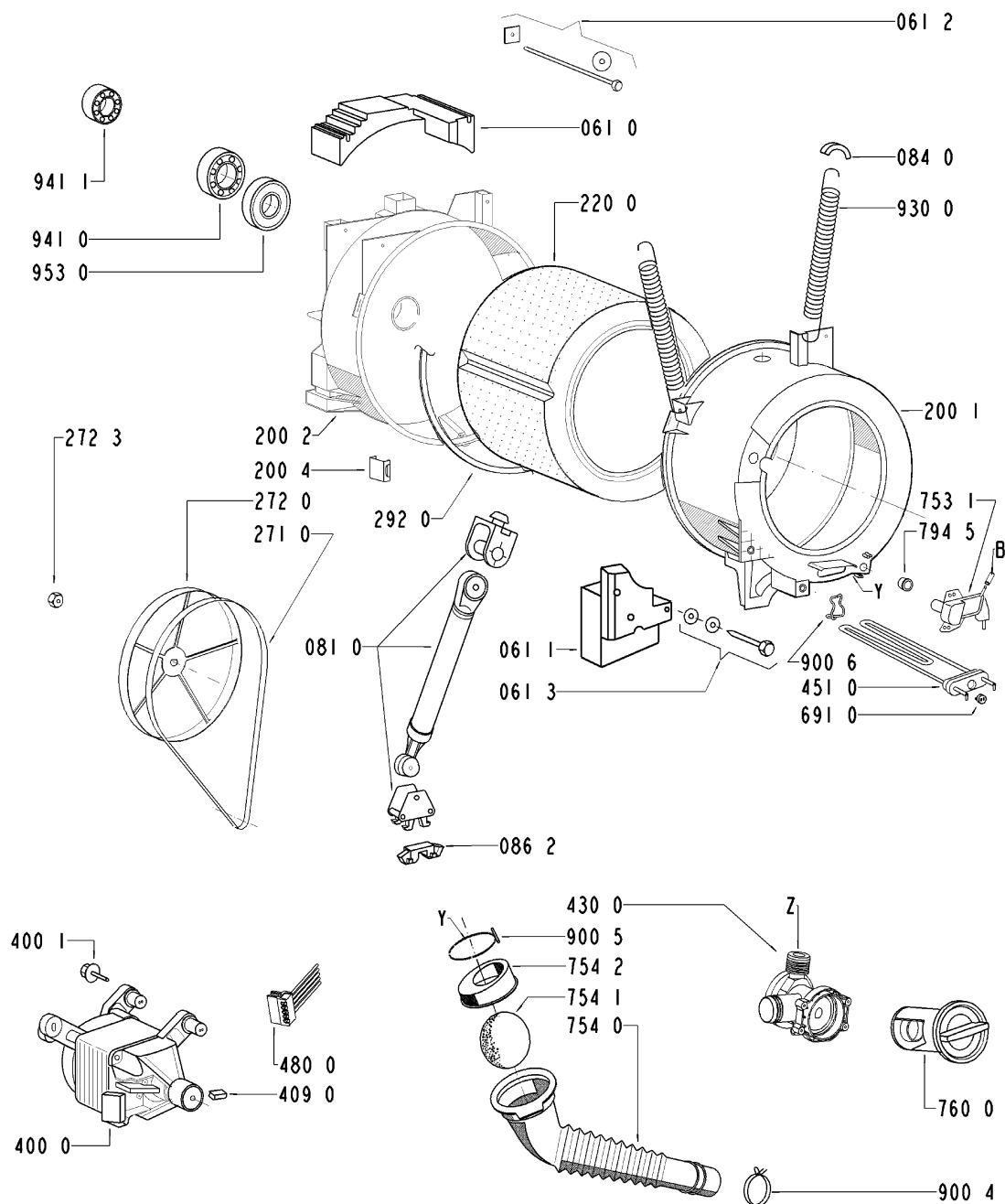
Pos No	12NC	Description
993 3	4812 395 58004	Tool

Exploded View



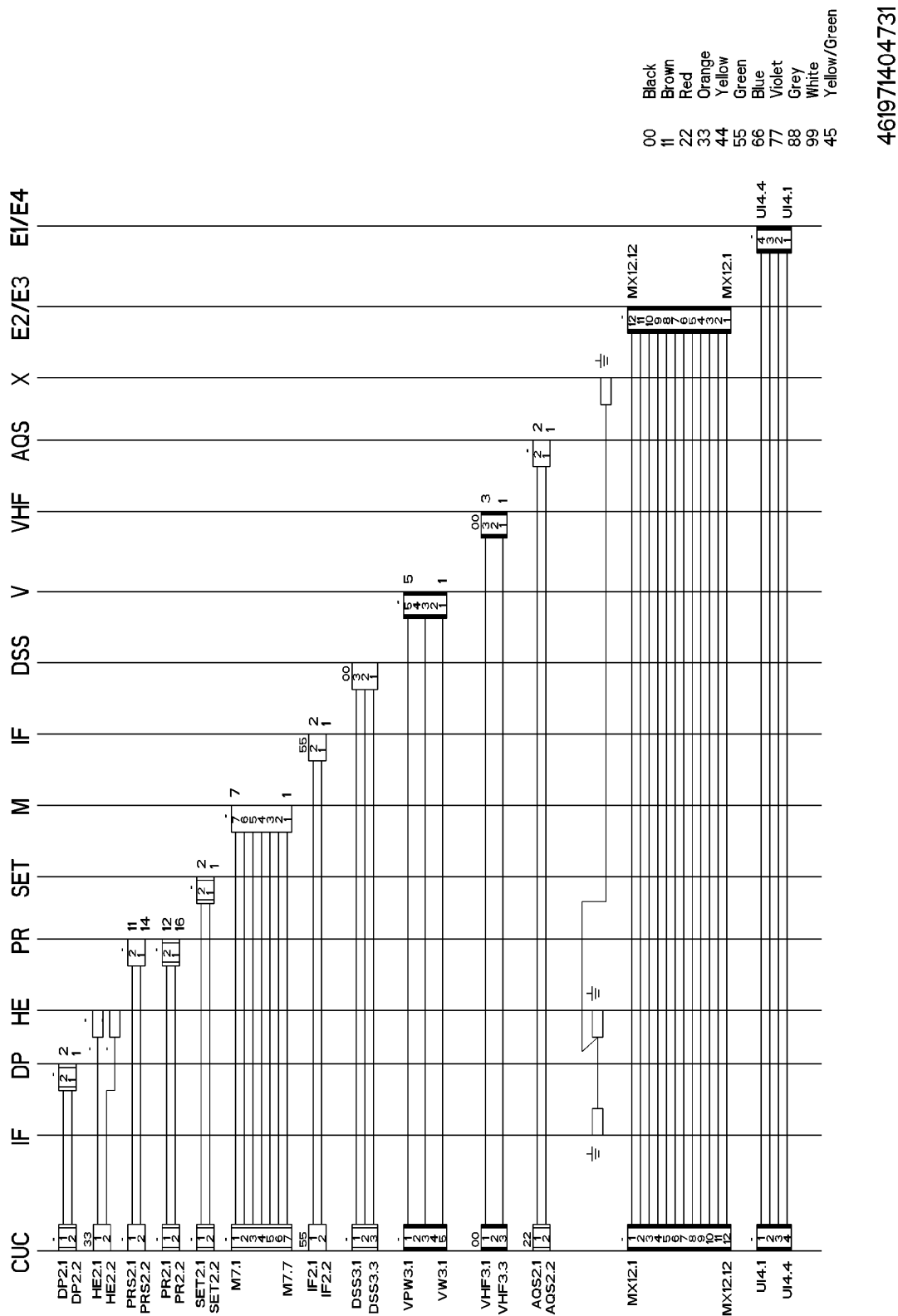
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Exploded View

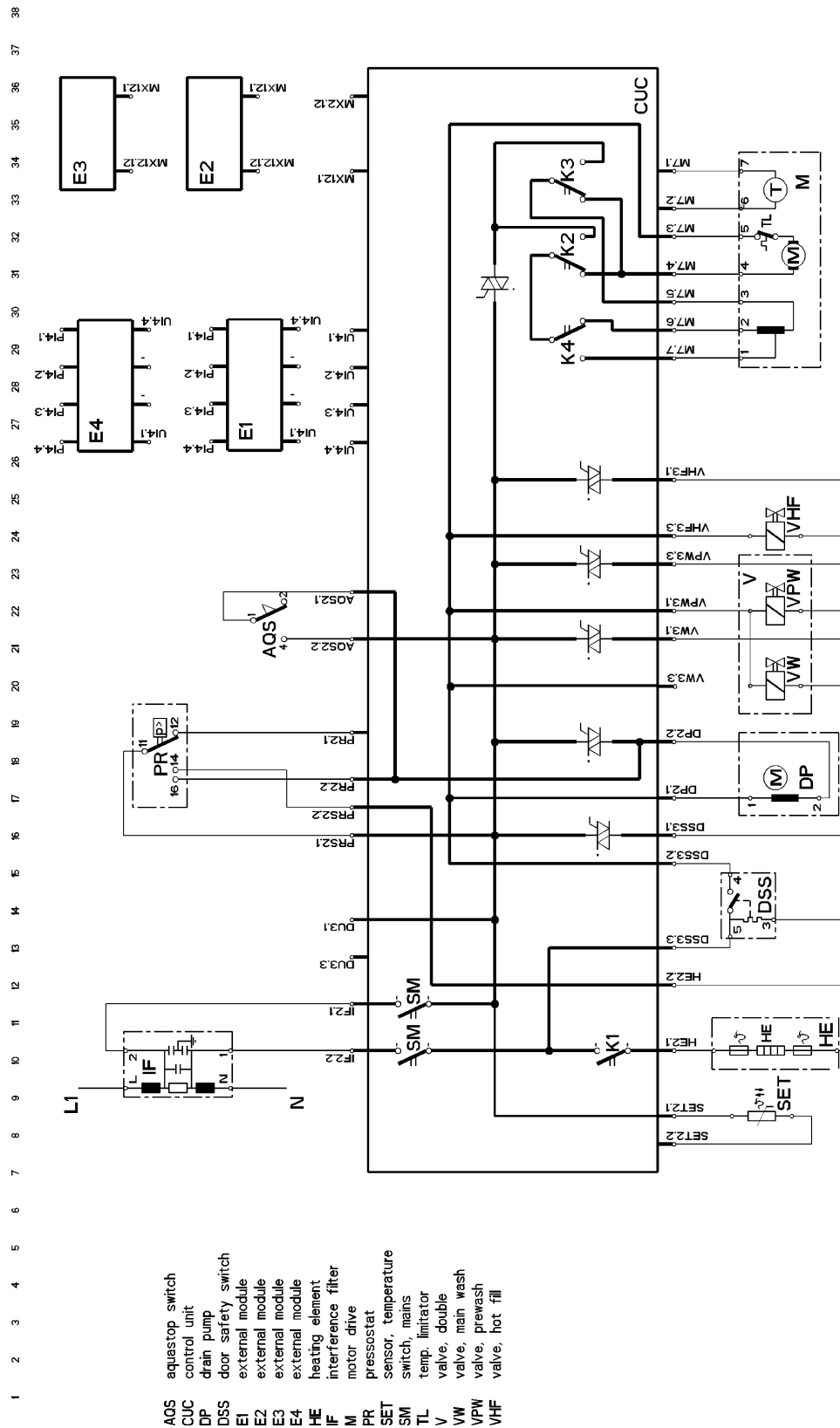


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Wiring Diagram

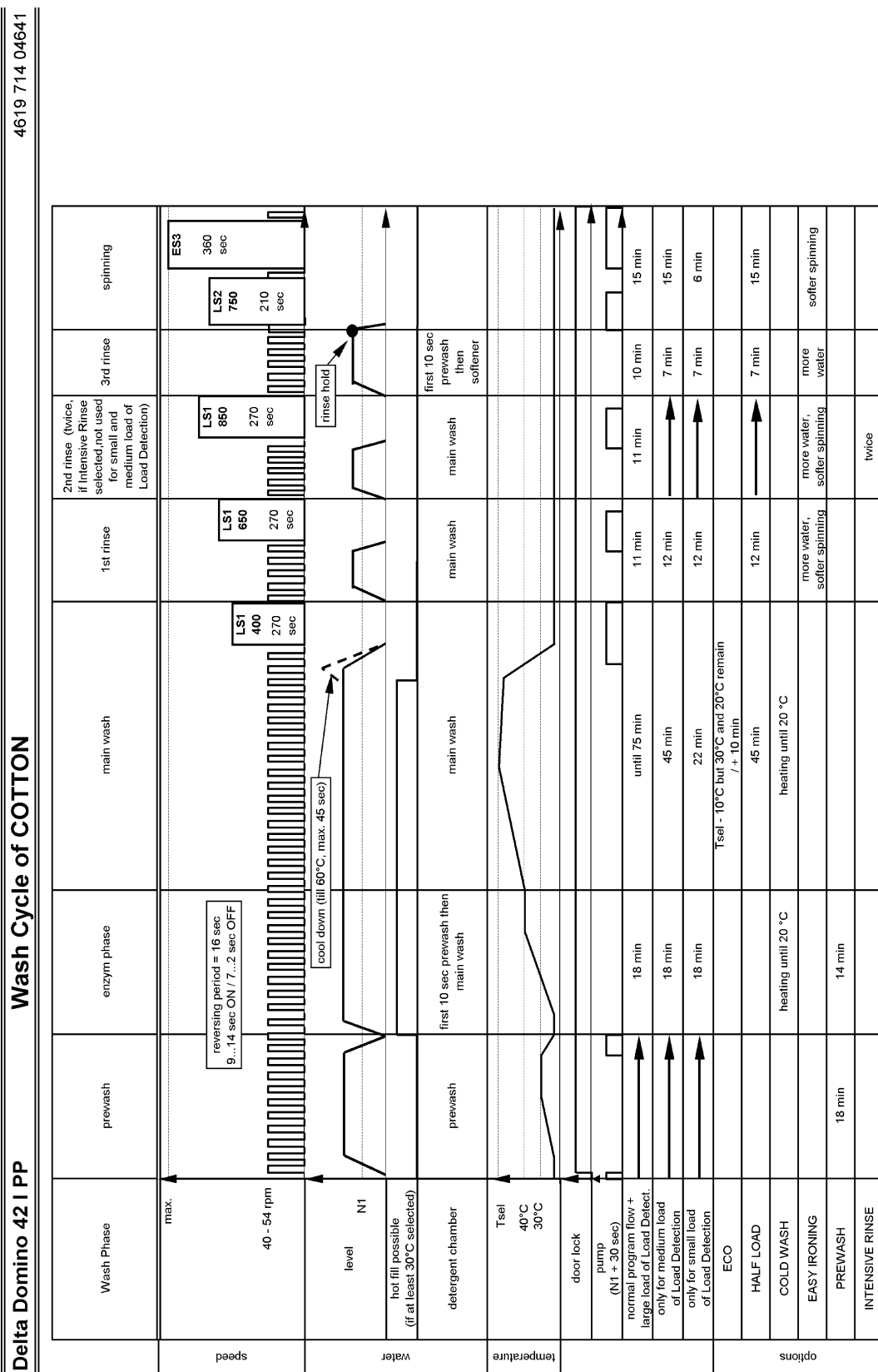


Circuit Diagram

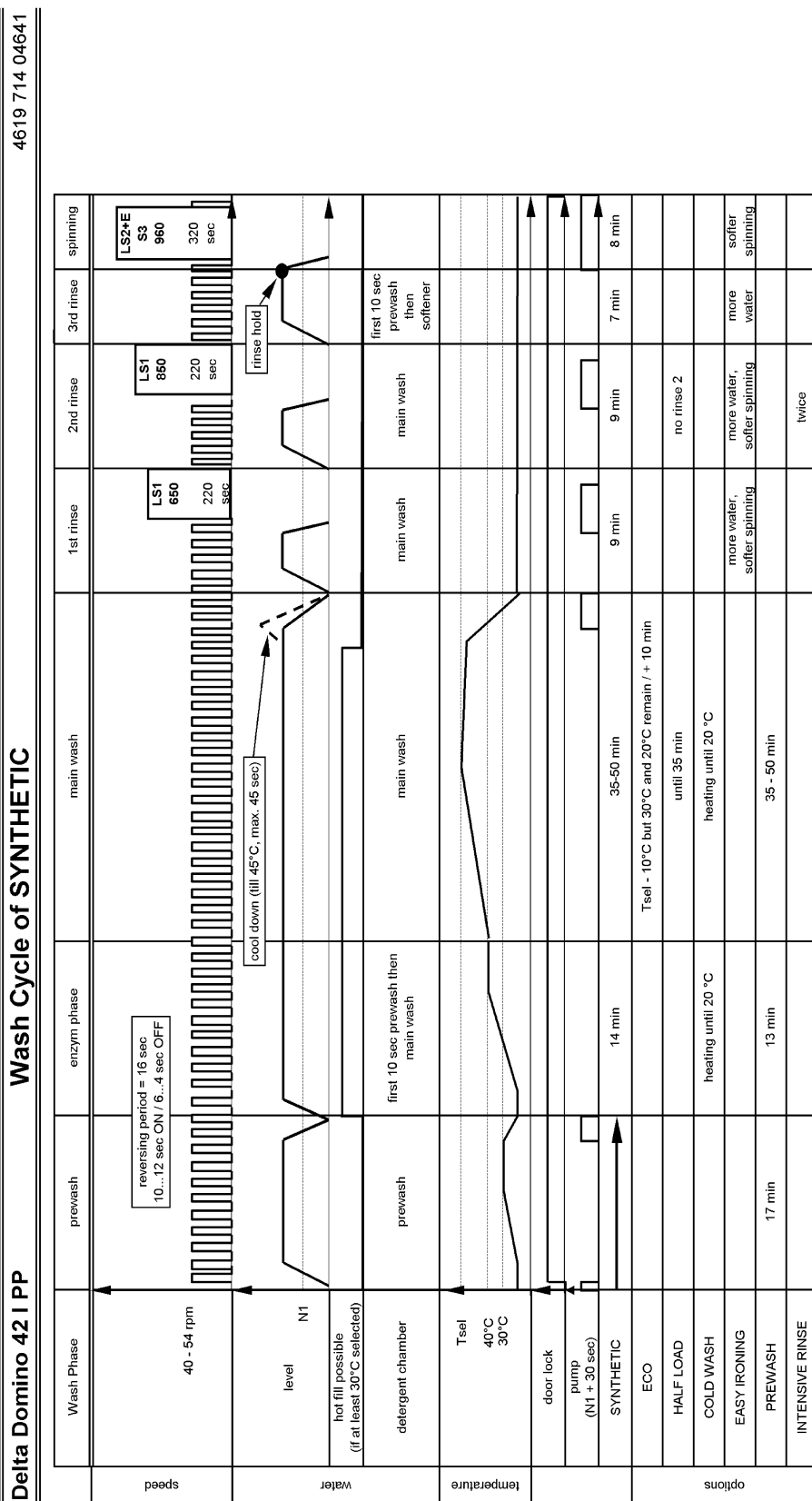


4619 714 04731

Program Chart



Program Chart

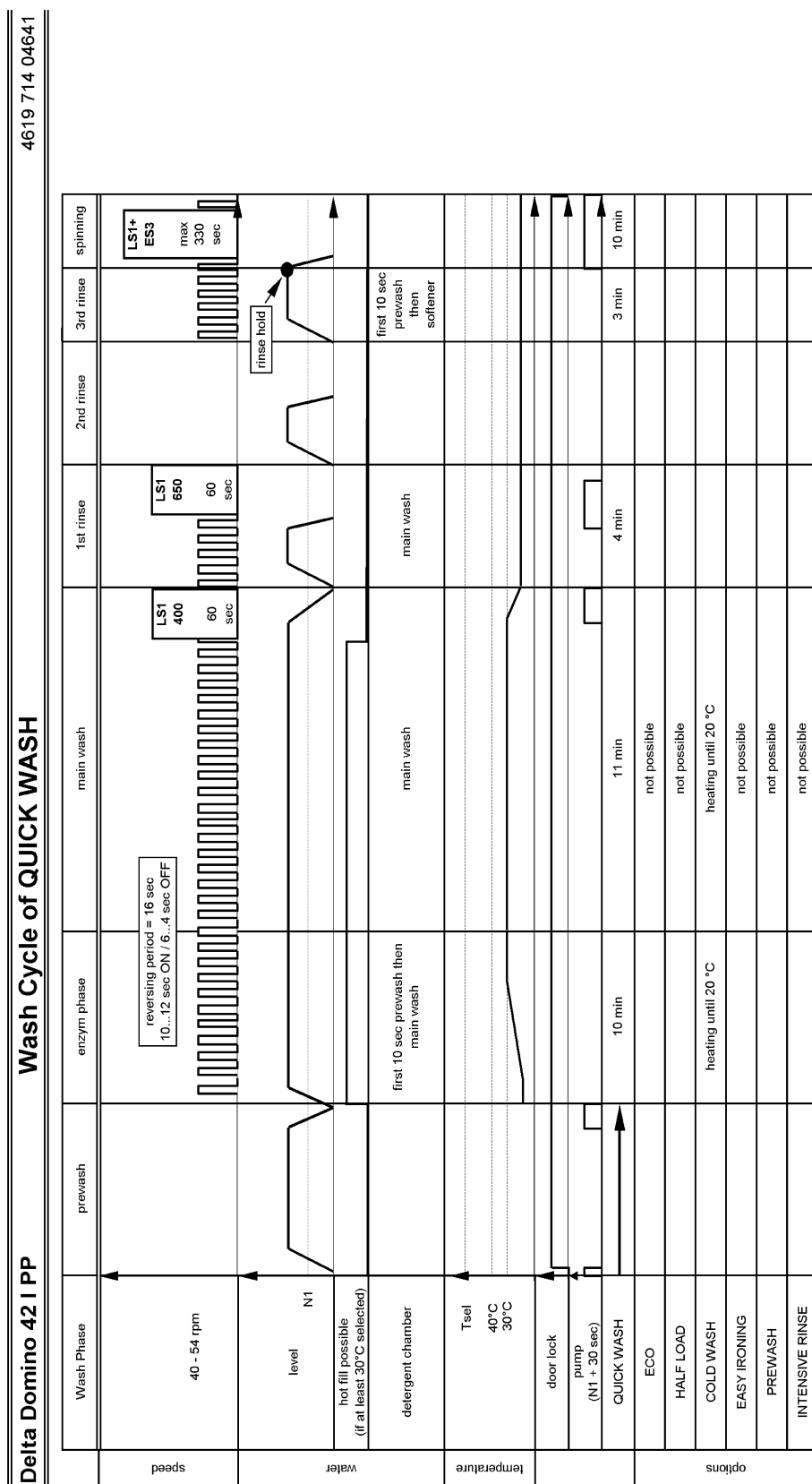


Program Chart

Wash Cycle of DELICATE									
Delta Domino 42 I PP									
	Wash Phase	prewash	enzym phase	main wash	1st rinse	2nd rinse	3rd rinse	spinning	
speed	960 rpm	reversing period = 16 sec mainly 5 sec ON / 11 sec OFF						LS2 + ES3 960 320 sec	
	40 - 54 rpm								
water	level								
	N1 hot fill possible (if at least 30°C selected)								
	detergent chamber	prewash	first 6 sec prewash then main wash	main wash	main wash	main wash	first 10 sec prewash then softener		
	40°C 30°C								
	door lock								
	pump (N1 + 30 sec)								
	DELICATE								
	COLD WASH								
options	PREWASH	18 min	heating until 20 °C	heating until 20 °C	3 min	3 min	3 min	8 min	

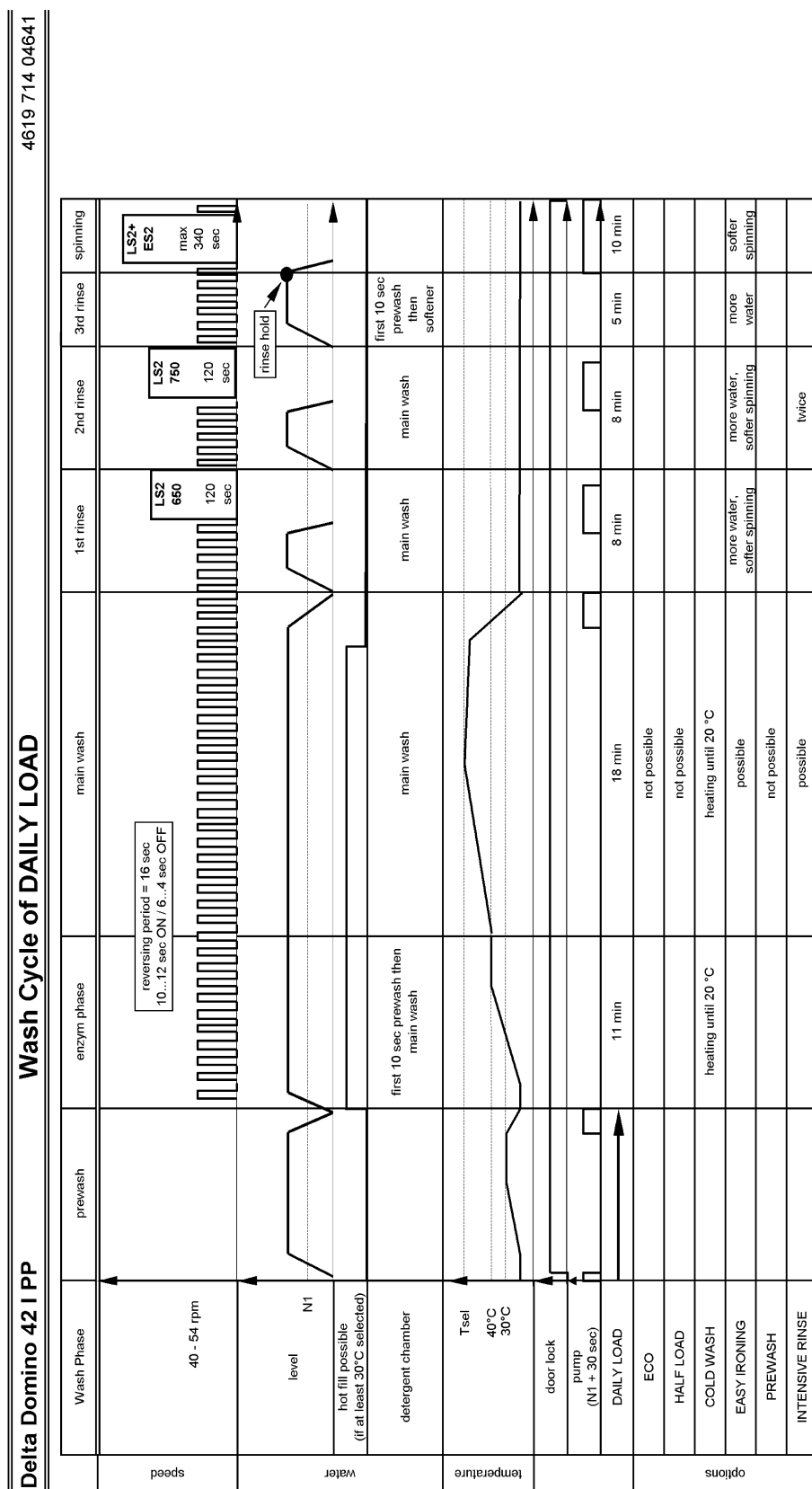
no spin: the spinning until rinse 3 is performed but not the extraction phase

Program Chart



no spin: the spinning until rinse 3 is performed but not the extraction phase

Program Chart

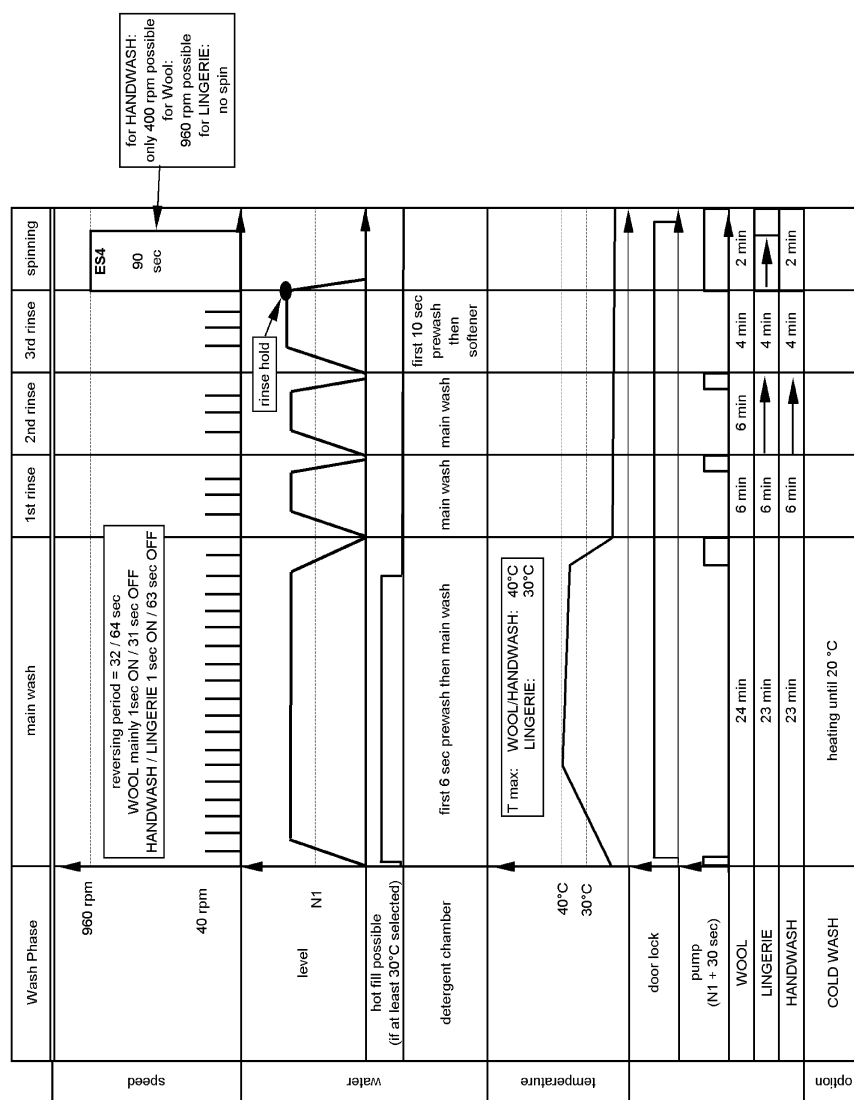


no spin: the spinning until rinse 3 is performed but not the extraction phase

Program Chart

Delta Domino 42 I PP Wash Cycles of WOOL, HANDWASH and LINGERIE

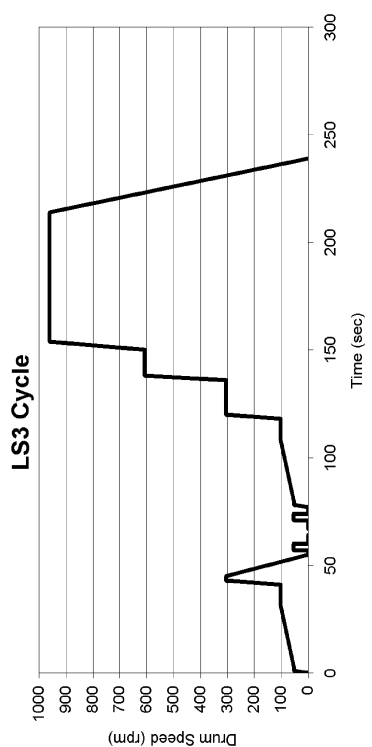
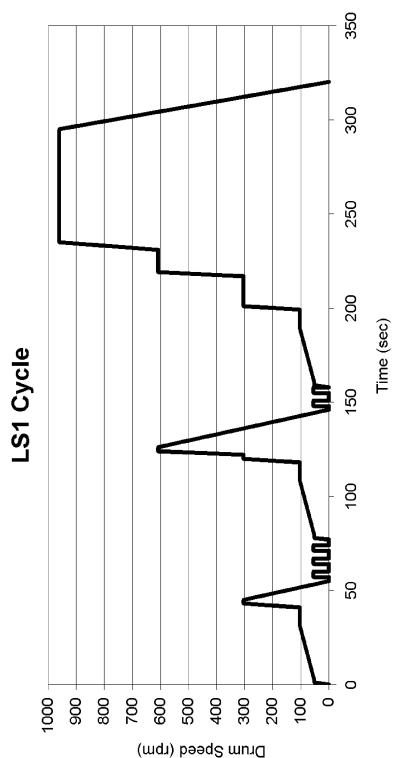
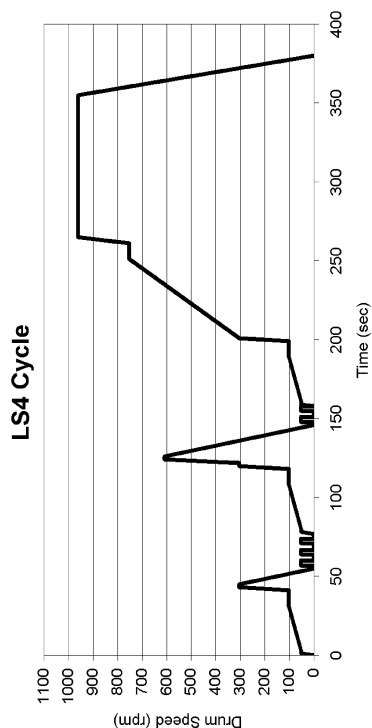
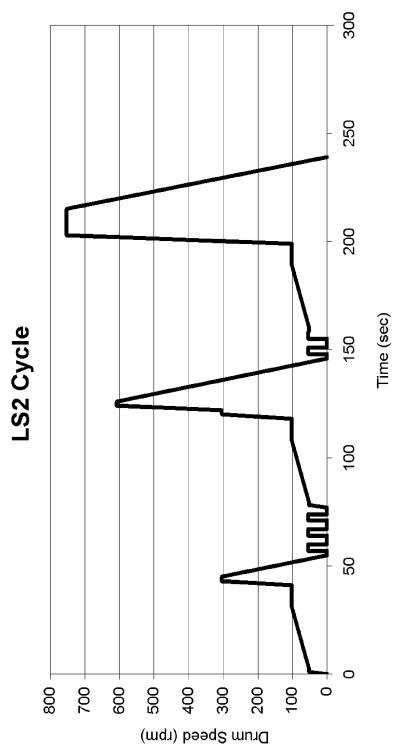
4819 714 04641



no spin: the extraction phase is cancelled

Program Chart

Delta Domino 42 I PP Spinning Profiles 4619 714 04641

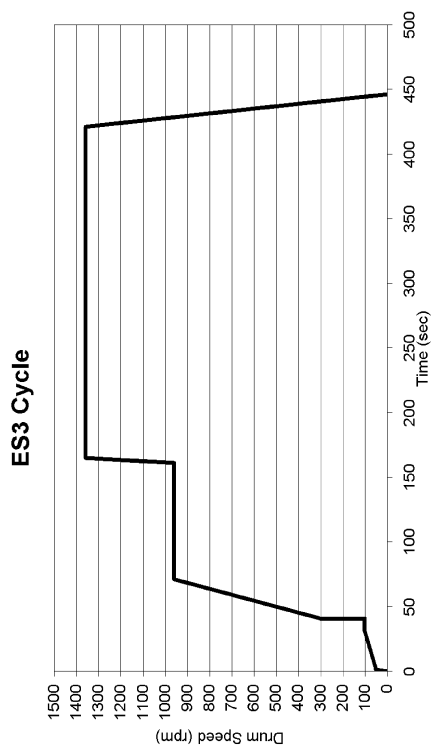
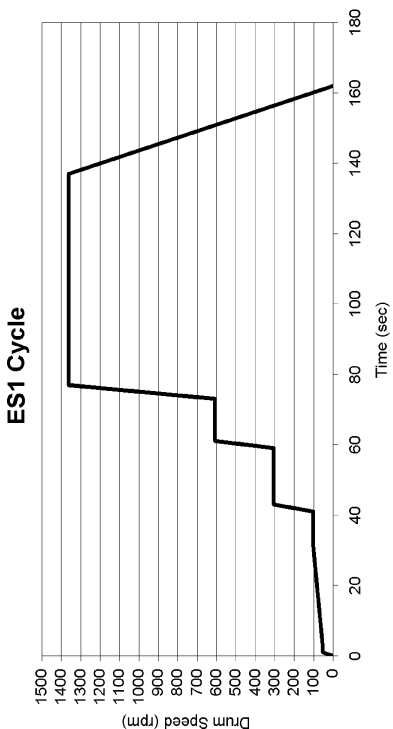
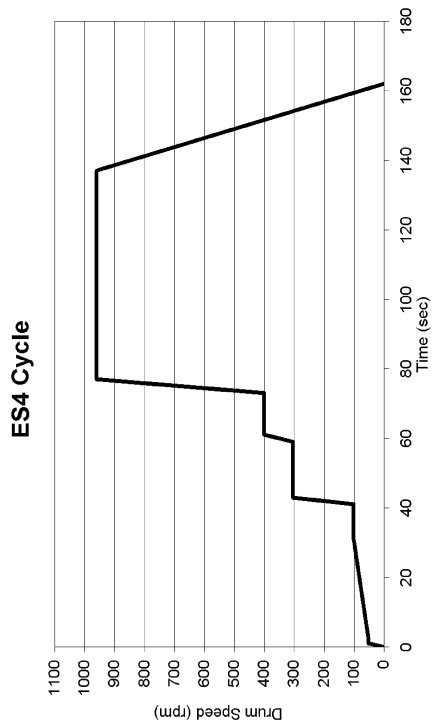
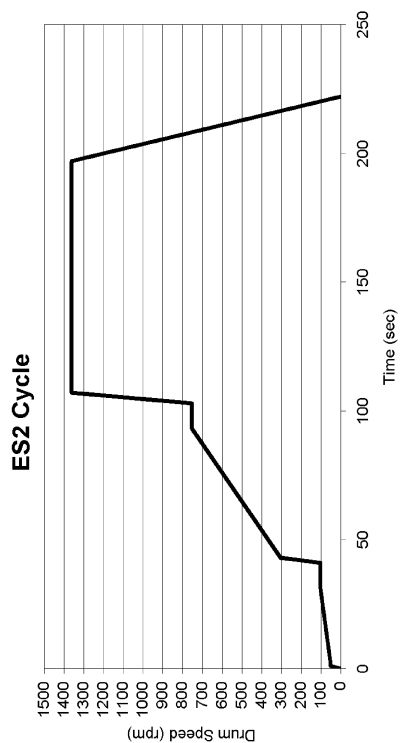


Program Chart

4619 714 04641

Spinning Profiles

Delta Domino 42 I PP



Text legend

DOMINO **Test Program** **4619 714 04651**

1. Switch ON the appliance
2. Close the Door
3. Selected the DRAIN program
4. Press Push button (PB) Reset 4 times within 5 seconds
5. Go to the next step press PB Reset twice

Attention: Use the test program only without laundry!

LED Status	Digits *	Description of the Program Flow	Check to perform
	-- 0	The door is locked. The CCU is performing the Selftest.	CCU detects: F05, F08, F12, F13, F14, F15, F23
	-- 1	Fill 15" hot valve (only if hot fill appliance) Fill 15" in prewash (PW) Fill 15" in mainwash (MW) Fill 15" 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
	-- 2	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
	-- 3	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
	-- 4	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
	-- 5	Motor is switched OFF. Door is unlocked.	Technician: - Check if the door is unlocked CCU detects: - F13

* Digits1,2, (the left on) are executing an animation

Text legend

DOMINO

Test Program

4619 714 04651

Failure Indication		Explanation and Recommended Procedure
On Status LEDs	On Digits if available	
	Remaining Time	No water detected entering machine or pressure switch trip not detected. If after 6 minutes the control does not detect water entering machine and then valves will be turned off and the LED Water Tap will be switched ON. The Control is in Pause Mode. If it was possible to remove the failure, by pushing PB Start the appliance will restart. Potential Causes • If there is no water in the unit: • Make sure that both valves at the water source(s) are turned on all the way. • Check for plugged or kinked inlet hoses or plugged screens in the inlet valves. • Verify inlet valve operation. • If there is water in the unit: • Pressure switch hose is in good condition and properly connected to tub and pressure switch. • Verify there is not a siphon problem. • Verify wire harness connections to; inlet valves, pressure switch and central control unit (CCU). • Check all hoses for possible leaks. • Verify pressure switch operation. • Verify CCU operation.
	Remaining Time	Long Drain If the drain time exceeds 8 minutes, the LED clean Filter is turned ON. The control is in Pause Mode. If it was possible to remove the failure, by pushing PB Start the appliance will restart Potential Causes • Check the drain hose and make sure it is not plugged or kinked • Check the electrical connections at the pump and make sure the pump is running. • Check the drain pump filter for foreign objects. • Check the electrical resistance of the drain pump.
	FA	Aquastop Failure 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 door will remain locked and the drain pump will run constantly. Potential Causes • If there is water in the bottom tray of the appliance: • Check all hoses for any leakage. • Check if there was an overfoam due to too much detergent used. • Check the tub for any leakage. • If there is no water in the bottom tray • Check if the aquastop switch has a short circuit. • Check if the aquastop wiring is properly connected. • Verify CCU operation.
	F04	Too Long Heat Time If the water temperature is not increasing over 35°C during 40 minutes of the first heating step in the cycle the CCU will display this Error. Potential Causes • Check the electrical resistance of the heating element. • Check Wire Harness connections to the heating element, NTC and CCU. • Check the electrical resistance of the NTC.
	F05	Water Temperature Sensor Error 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. Potential Causes • Check the NTC resistance. • Check connections to the NTC and CCU.

Text legend

DOMINO		Test Program	4619 714 04651
	F06	Drive Motor Tachometer Error The control is unable to properly detect motor speed (several times) and the machine will shut down. If a failure occurs during high speed spin the door will be unlocked after the drum has stopped rotating. Potential Causes • Check wire harness connections between the motor and CCU. • Check the resistance of the tachometer circuit on the motor. • Check resistances of the motor windings.	
	F07	Motor Control Triac Error The main control has detected a short circuit in the motor control triac. If a failure occurs during high speed spin the door will be unlocked after the drum has stopped rotating. Potential Causes • Check CCU by running Test Program.	
 	F08 F12	Heater Circuit Error The main control has detected a heater circuit failure. This failure modes are checked before the cycle starts and after the spinning steps. Potential Causes • Check the resistance of the heater connectors to the ground. • Check the resistance of the heater. • Check the wiring connectors to the heater and CCU. • Check the CCU.	
LED Door open flashing for 10"  	Only during test program F13	Door Open LED flashing after the cycle is started If the CCU is not able to lock the door of the washer after program start within 10", the door open LED will flash for 10". Potential Causes • Check if the door is closed properly. • Check if there is a mechanical problem on the door lock system. • Check the wiring/harness between the CCU and the door lock. • Start the Test Program. If the problem persists the error Code F13 will be displayed.	
	F14	EEPROM Error The CCU receives it's data from an EEPROM on board the CCU. If there is an error reading this data it will cause this failure indication. Potential Causes • A power glitch (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.	
	F15	Drum Up Circuit Missing (only for TOPLOADERS with DRUM UP Circuit) 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. Potential Causes • Check the position of the electromagnetic device. • Check the position of the reed sensors. • Check the resistance of the reed sensor. • Check the wiring connection between the reed sensor and the CCU.	
	F21	User Interface Error (detected only with Smart user interfaces) 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. Potential Causes • Check wiring connection to the display module. • Check display module. • Check CCU.	

Text legend

DOMINO	Test Program	4619 714 04651
	F23	Pressure switch Failure 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 simultaneously for 10" this failure will be displayed. Potential Causes • Check the resistance of the pressure switch contacts. • Check the wiring of the connection to the pressure switch and to the CCU. • Start the Test Program. If the problem persists F23 will be displayed.
	F24	Overflow Failure If the overflow contact on the pressure switch is closed for more than 60" the overflow failure will be indicated. In this overflow condition, the Door will remain locked and the drain pump will run constantly. Potential Causes • Check the drain hose and make sure it is not plugged or kinked. • Check Wire Harness connections to the drain pump, pressure switch, and CCU. • Check/clean drain pump filter of foreign objects. • Check for drain pump failure. • Check the inlet valve for proper shut off. • Check the pressure switch for proper operation.
	F26	Pump Driver Failure If the CCU detects during the wash cycle that the triac of the pump is defective it will display this failure. Potential Causes • Check the resistance of the pressure switch contacts. • A failure of the pressure switch could also cause the Code. • If OK. Start Service test to check the CCU. If the failure occurs replace the CCU.
	Only during test program F27	Reversing relay failure If the CCU detects that the motor is possible to rotate only in one direction this failure is displayed. Potential Causes • Check the harness to the motor. • Check the CCU.
	Only during test program F28	Tapped Field Failure If the CCU is not able to switch ON the tapped field of the Motor, this failure Code is displayed. Potential Causes • Check if the correct motor is build in. • Check the resistance of the fields of the motor. • Check the harness between Motor and CCU. • If the points above are OK replace the CCU.
	Fod	Foam detected During the Wash Cycle 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. Potential Causes • Customer used too much detergent. • Check if there is any problem with the pump hoses. • Check the electrical resistance of the pump. • Check the electrical resistance of the pressure switch. • Check if pressure switch hose is in good condition and properly connected to tub and pressure switch. • Verify there is not a syphon problem.