Error and Service codes

Washing machines

&

tumble dryers

Electrolux

ELECTROLUX LAUNDRY SYSTEMS

Exacta (GEN5EWDU)
W3xxN/M/X/H

A. Programs
B. Options
C. Start and fast forward
D. Program step indicator
E. Display

Error code	Cause
01E	Water level ACK not received within the prescribed time.
02E	No signal from the **"Door closed"** switch during programme operation.
03E	No signal from the **"Door locked"** switch at programme start or during programme operation.
04E	The temperature sensor indicates a temperature below -5°C or interruption in sensor.
05E	The temperature sensor indicates a temperature above 98°C or short-circuit in sensor.
06E	The water level is too high at programme start (above the safety level).
07E	The water level is too high during programme operation (above the measurable level).
08E	The water temperature rises to slowly.
10E	The water level is above the safety level after the drain sequence.
11E	Mechanical unbalance always activated.
12E	The programme unit cannot read the programme memory (EPROM).
13E	The programme unit cannot communicate with the motor controller.
14E	The water level system has not been calibrated (hardware calibration).
17E	The signal from the **"Door locked"** switch is present although there is no signal from the **"Door closed"** switch.
18E	CALCAD 4400 doesn´t allow start of selected program.
19E	Communication between CALCAD 4400 and the programme unit card has been interrupted.
21E	Microprocessor error (Configuration register).
22E	The level system indicates such a wrong value at program start that the automatic level calibration cannot correct the fault.
31E	The motor controller indicates the temperature is too high on the motor controller heat dissipator.

4

32E	The motor controller indicates the thermal protector of the motor has triggered.
33E	The motor controller receives a start command from the programme unit without receiving an interlock ACK ("**Door locked**" signal).
35E	The motor controller indicates a short-circuit in the motor windings, cabling or internally in the motor controller.
36E	The motor controller indicates an error in the interlock receiving circuit.
37E	The motor controller indicates the DC voltage
38E	The motor controller indicates the DC voltage level is too high.
41E	The motor controller indicates an error in the thermal protection circuits of the motor.
43E	The RDC card indicates the imbalance switch has triggered when motor is stopped.
45E	The RDC card indicates tacho pulses missing at requested revolutions.

Error codes for converter / motor control

Green LED

LED blinking pattern	Cause
▬▬▬▬▬ ▬▬	OK blink (brief pause every 5 seconds).
▬▬▬▬▬▬▬	Connection with programme unit broken or programme unit microcomputer in reset mode.
▬ ▬▬▬ ▬▬ ▬▬ ▬ ▬▬ ▬ (approx. 5 seconds)	Current limiter of motor control has switched on.

Yellow LED

| LED blinking pattern	Error code on display EXACTA	CLARUS	Cause
▬▬▬▬ ▬▬▬▬	31E	HEAT SINK OVER TEMP	Overheated heat sink on motor control.
▬▬▬ ▬ ▬ ▬▬▬ ▬ ▬	32E	MOTOR HOT	Motor thermal protector has triggered.
▬▬▬▬	33E	NO INTERLOCK	Motor control receives start request, but receives no lock ACK (input 302).
▬ ▬ ▬ ▬ ▬ ▬	13E	NO MOTOR COMM	Communication error in motor control - programme unit.
▬ ▬ ▬ ▬ ▬ ▬ ▬	-	-	Short-circuit in motor winding, harness or internally in motor control. Motor control restarts automatically.
▬ ▬ ▬ ▬	35E	SHORTED MOTOR	Short-circuit in motor winding, harness or internally in motor control.
▬ ▬▬▬▬	36E	HARDW INTERLOCK	Error in lock ACK circuits in motor control.
▬▬▬▬▬▬	37E	LOW DC VOLTAGE	DC level in motor control too low.
▬▬▬▬▬▬	38E	HIGH DC VOLTAGE	DC level in motor control too high.
▬ ▬ (approx. 5 seconds)	41E	KLIXON CIRCUIT	Error in motor control circuits used to detect motor thermal protector.
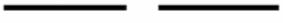
## Door lock control
All Exacta and Clarus machines G3000

Error codes

The door lock control has three LEDs that show whether the door lock operates normally or whether an error has been detected. During normal operation, the LEDs blink when the drum is not turning and are off when the drum rotates. In case of an error, the three LEDs will show the error condition according to the table below. If an error disappears, the error code condition disappears. If the error is still present at the programme end, the error is automatically cleared after 5 minutes and the door is unlocked.

5184

LEDs			Normal operation
A	B	C	
●	●	●	No error. The drum is not turning (LEDs blinking)
○	○	○	No error. The drum is rotating

| LEDs			Error state
A	B	C	
●	●	○	Level guard B2 indicates water in drum when the door lock is open (input X93 not closed).
○	●	●	Motor control indicates that motor is operating when door lock is open (input X94 not open).
●	○	○	No signal from rotation sensor B3 (frequency input X95 < 0.4 Hz) in spite of the motor control indicating motor operation (input X94 open).
○	●	○	No signal from motor control (input X94 not open) in spite of rotation sensor B3 indicating motor operation (frequency input X95 > 0.4 Hz).
●	○	●	Error in drive circuits for door lock (output X96) or error in door lock/cable harness for the door lock.
○	○	●	Internal error in the door lock control.

○ = no lit, ● = lit

6
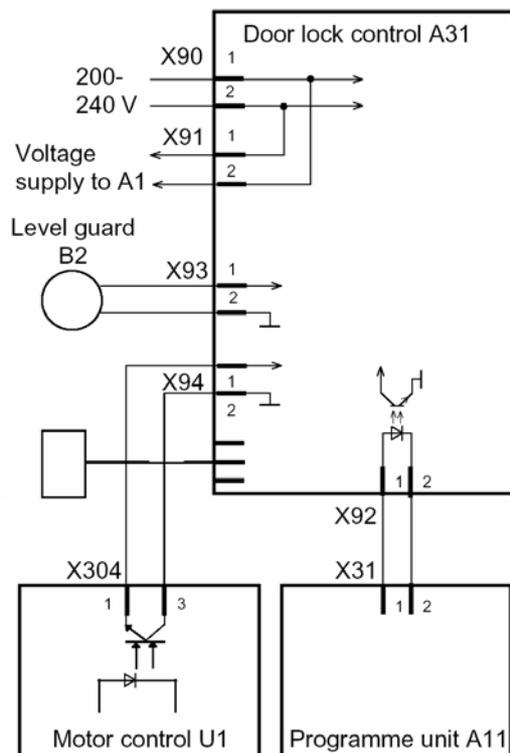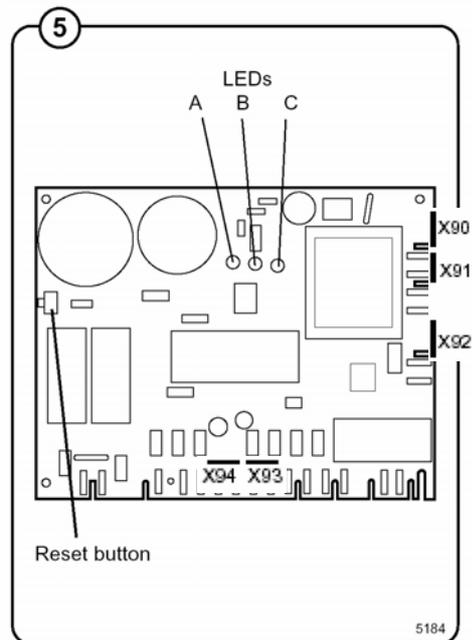
G3000-models compared to old models

Model	Volume, litres	1:10 - Capasity
902 / W74	70	7
1202 / W124	152	15,2
1802 / W/FL184	214	21,4
2702 / W/FL244	325	32,5
903 / W75	70	7
1003 / W100	100	10
1203 / W/FL160	157	15,7
1803 / W/FL230	230	23
2703 / W/FL330	325	32,5
W375N	75	7,5
W385N	85	8,5
W3105N	105	10,5
W3130N	130	13
W3180N	180	18
W3250N	250	25
W3330N	330	33
MIDI-HS / WE60	60	6
MIDI-HS2 / WE65	62	6,2
MESO 2 / WE105	105	10,5
MAXI-HS / WE/FLE120	120	12
MEGA-HS / WE/FLE220	220	22
GIGA-HS / FLE403	360	36
HS265 / WE66	65	6,5
HS2105 / WE106	100	10
HS2120 / WE/FLE125	120	12
HS2170 / WE/FLE175	170	17
HS2220 / WE/FLE225	220	22
HS2400 / FLE400	400	400
W365H	65	6,5
W375H	75	7,5
W3105H	105	10,5
W3130H	130	13
W3180H	180	18
W3240H	240	24
W3300H	300	30
W3400H	400	40

Changing wash program parameters

It is possible to change parameters in the wash programs and add or remove program sequences.
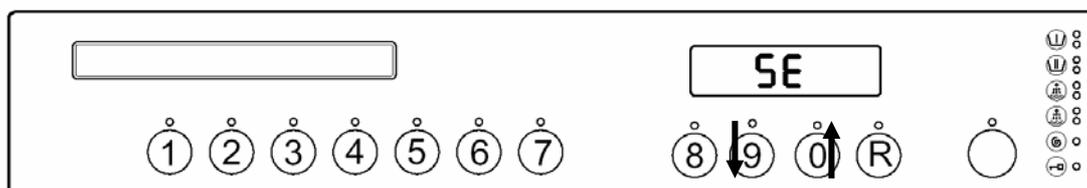
When service button has been pressed, the push button alter to a numerical fuction.
The START-button will work as ON/OFF.
The R is a reset button for resetting a sercive pogram number.
When reset button ispressed the display will show 00 until a service number is given.
Adding or deleting a function, a Yes or No question has to be answered.
For example to delete one rinse, which is service code 86, the display will show 0:86. To delete one rinse, press ON/OFF button and the display will show 1:86 (0 = No and 1 = Yes).
The selected changes will be stored when a new
service code is entered or when service button is pressed.

Changing a value e.g. wash time, temp, etc.
Press ON/OFF button twice. The display will change from showing service code to show the actual configuration value.
Decrease the value by pressing button 9 and increase with button 0. Press ON/OFF button and the value will be stored and the display will return to show the service code.
If the service button is pressed to leave the service program, when the ON/OFF button has been pressed twice (value selection mode entered), the old configuration value will be kept and the present value on the display will be scrapped.

The ON/OFF button **must** be pressed once to store the new value before leaving the service program.

Codes
83   AWS (Automatic Weight System) off = 0, on = 1.
84   Temperature stop off = 0, on = 1.
85   Error code for too slow heating. Active = 1, No error code = 0.
86   Reduce number of rinses (1 = Yes, 0 = No).
87   Limited extraction speed (1 = Yes, 0 = No).
88   Blocked START-button. (1 = Yes, 0 = No).
121   Changes value for wash time in pre-wash for all programs, $\pm$ 20 units
122   Changes value for water level in pre-wash for all programs, $\pm$ 20 units
123   Changes value for wash temperature in pre-wash for all programs, $\pm$ 38^{0}C
131-137 Changes value for wash time in main wash in
        a certain wash program, $\pm$ 20 units
138   Changes value for water level in main wash for all programs, $\pm$ 20 units
141-147 Changes value for temperature in main wash in
        a certain wash program, $\pm$ 38^{0}C
151   Add rinses to all wash programs, max. +5
152   Changes value for water level in rinses, $\pm$ 20 units

Water levels, Exacta, High spin

W365H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
16	5	25	
22	7	45	
29	10	69	
30	10.5	72	
31	11	76	
33	12	82	
35	13	88	
36	13.4	91	
40	15	102	
46	18	121	
50	20	134	
54	22	146	
61	26	167	
67	30	186	
90	40.7	258	
105	47.6	297	overfilling level

* Distance above bottom of inner drum.

W375H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
15	5	22	
22	8.2	45	
24	9	52	
26	10	59	
30	12	71	
31	12.5	75	
34	14	84	
36	15	90	
43	19	113	
46	21	125	
48	22	128	
54	25	144	
61	30	170	
70	35	195	
90	47.1	255	
110	56	300	overfilling level

* Distance above bottom of inner drum.

W3105H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
16	5	15	
26	10	52	
32	13.5	72	
34	14.5	79	
38	17.5	97	
41	19	103	
46	22	116	
50	24.5	129	
54	27	141	
59	30	156	
60	30.7	159	
66	35	178	
72	39	196	
88	50	245	
103	60	292	
118	71	345	overfilling level

* Distance above bottom of inner drum.

W3130H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
24	10	40	
33	15	68	
38	18.5	85	
44	23	105	
46	24	111	
50	27.5	125	
52	30	130	
55	31.2	140	
60	35	156	
66	40	175	
70	42.5	185	
80	50	214	
92	60	252	
105	70	289	
142	100	400	
154	110	436	overfilling level

* Distance above bottom of inner drum.

W3180H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
36	20	76	
40	23	88	
49	31	118	
50	32	127	
51	32.9	129	
57	38	142	
67	48	175	
78	58	208	
85	65	231	
88	68	241	
172	150	490	overfilling level

* Distance above bottom of inner drum.

W3240H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
40	26	80	
46	31.5	98	
57	43	135	
65	51	157	
77	65	195	
80	70	205	
87	78	228	
97	78	228	
98	92	285	
170	180	480	overfilling level

* Distance above bottom of inner drum.

Water levels, Exacta, Normal spin

W375N - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
15	5	22	
24	9	52	
30	12	71	
36	15	90	
43	19	113	
46	21	125	
48	22	128	
54	25	144	
61	30	170	
70	35	195	
90	47.1	255	
110	56	300	overfilling level

* Distance above bottom of inner drum.

W3330N - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
20	13.5	22	
36	30	73	
57	60	141	
73	86	193	
81	100	220	
87	110	238	
98	128	272	
105	140	294	
117	160	329	
138	199	397	
181	275	530	overfilling level

* Distance above bottom of inner drum.

W3105N - Conversion table, water level

| Scale units	Quantity of water (litres)	Water level * (mm)	
16	5	15	
26	10	52	
32	13.5	72	
34	14.5	79	
38	17.5	97	
41	19	103	
46	22	116	
50	24.5	129	
54	27	141	
59	30	156	
60	30.7	159	
66	35	178	
72	39	196	
88	50	245	
103	60	292	
118	71	345	overfilling level

* Distance above bottom of inner drum.

W3130N - Conversion table, water level

| Scale units	Quantity of water (litres)	Water level * (mm)	
24	10	40	
33	15	68	
38	18.5	85	
44	23	105	
46	24	111	
50	27.5	125	
52	30	130	
55	31.2	140	
60	35	156	
66	40	175	
70	42.5	185	
80	50	214	
92	60	252	
105	70	289	
142	100	400	
154	110	436	overfilling level

* Distance above bottom of inner drum.

W3180N - Conversion table, water level

Scale units	Quantity of water (litres)	Water level * (mm)	
36	20	76	
40	23	88	
49	31	118	
50	32	127	
51	32.9	129	
57	38	142	
67	48	175	
78	58	208	
85	65	231	
88	68	241	
172	150	490	overfilling level

* Distance above bottom of inner drum.

W3250N - Conversion table, water level

| Scale units	Quantity of water (litres)	Water level * (mm)	
40	26	80	
46	31.5	98	
57	43	135	
65	51	157	
77	65	195	
80	70	205	
87	78	228	
97	78	228	
98	92	285	
170	180	480	overfilling level

* Distance above bottom of inner drum.

Waterconsumptions at different std. levels – normal programs, std. cotton

	Dry Clothes			Wet Clothes			Extracted Clothes		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
High Spin									
W365H	24	29	32	11	15	19	15	20	24
W375H	27	33	35	13	18	22	17	22	28
W3105H	37	42	47	18	23	29	24	30	37
W3130H	47	56	64	22	28	38	30	39	48
W3180H	66	78	92	28	40	54	43	55	69
W3240H	88	98	118	39	49	69	58	68	85
W3400H	160	220	230	60	107	113	80	147	160
W3850H	265					158			243
Normal spin									
W375N	29	34	37	12	17	20	18	23	26
W385N	32	35	40	15	18	19	22	25	37
W3105N	40	45	50	18	23	28	29	34	39
W3130N	49	55	59	20	26	30	29	35	44
W3180N	64	75	86	28	39	50	44	55	66
W3250N	92	108	114	38	54	60	64	80	86
W3330N									

Exacta, PCB

To buttons on front panel

X38 X37   X36   X35   X33 X34 X32 X31   X30

471 8988-10

X21   X25 X24   X23 X22

Programme memory

Level guard

Service switch

F1 1A/250V
to electronics

X20

F2 F3 1A/250V
to display
window
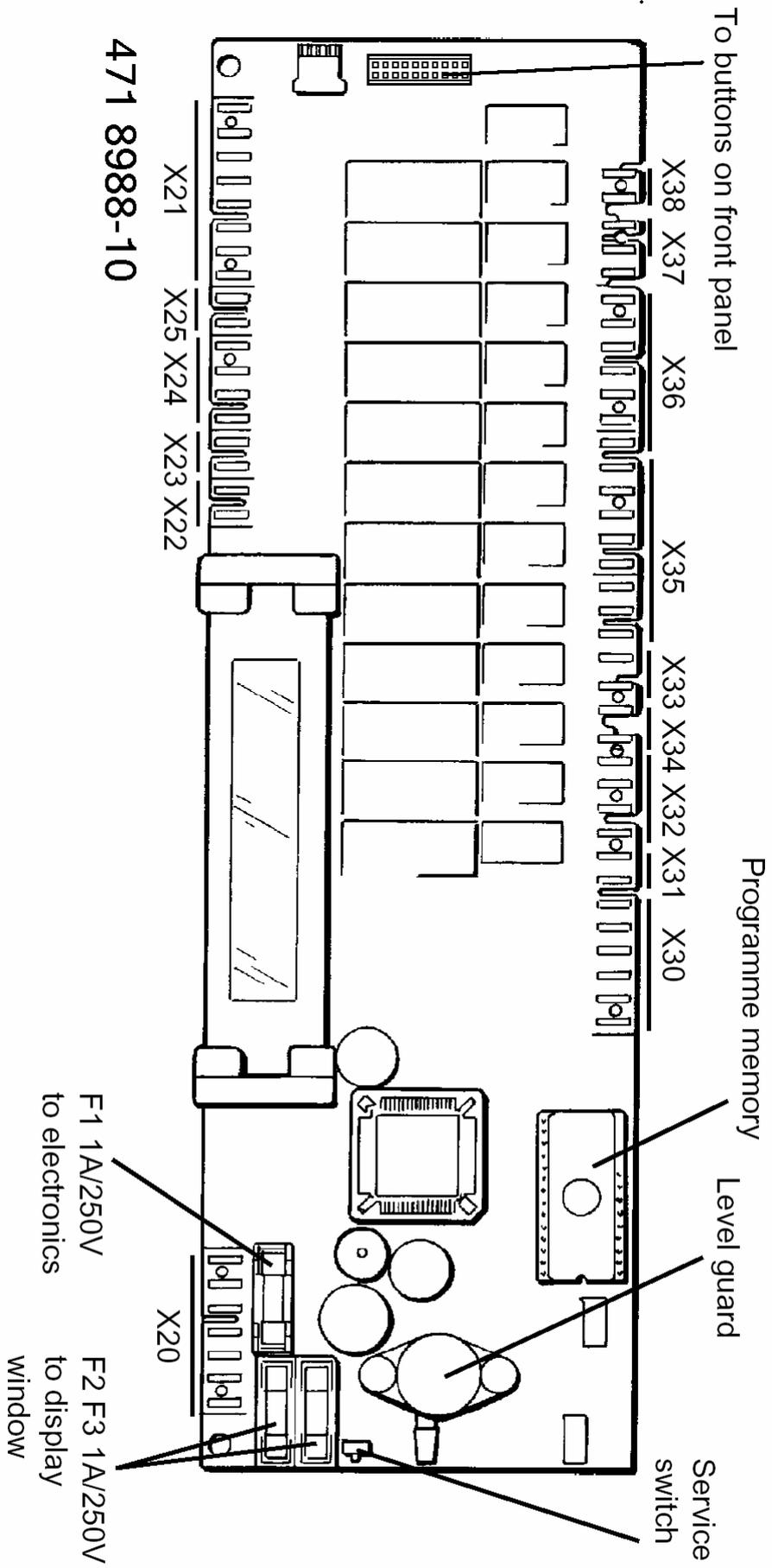
Card terminal	Function
X20	Received voltage from the T10 transformer
X22	Output to service button in rear electric box
X23	Input from temperature sensor
X24	Serial communication with motor control
X25	Free wash (key switch)
X21	Inputs from coin detector
X37	Interlock signal to motor control
X38	Signal "Door locked"
X36	Outputs to water and drain valves
X35	Outputs to water valves and detergent supply
X34	Output to voltage supply
X33	Input from voltage supply
X32: 1, 2	Inputs for price reduction/start conditions/start after pause
X32: 3, 4	Output "Machine closed but not started"
X31	Outputs for door locking to the door lock control
X30	Input from the door lock micro switch
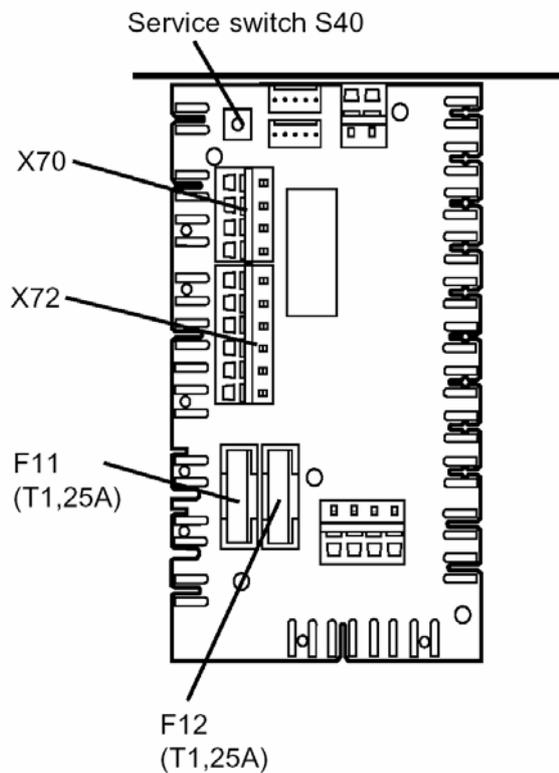
Block No.	Function
X70	Payment system interface a.o., depending of machine type
X72	Detergent signals
:1	O V
:2	"Door locked" signal
:3	Pre-wash detergent
:4	Main wash detergent
:5	Rinsing agent (compartment 3)
:6	Additional detergent (compartment 4)
:7	Bleaching agent/starch

471 8988-11

13
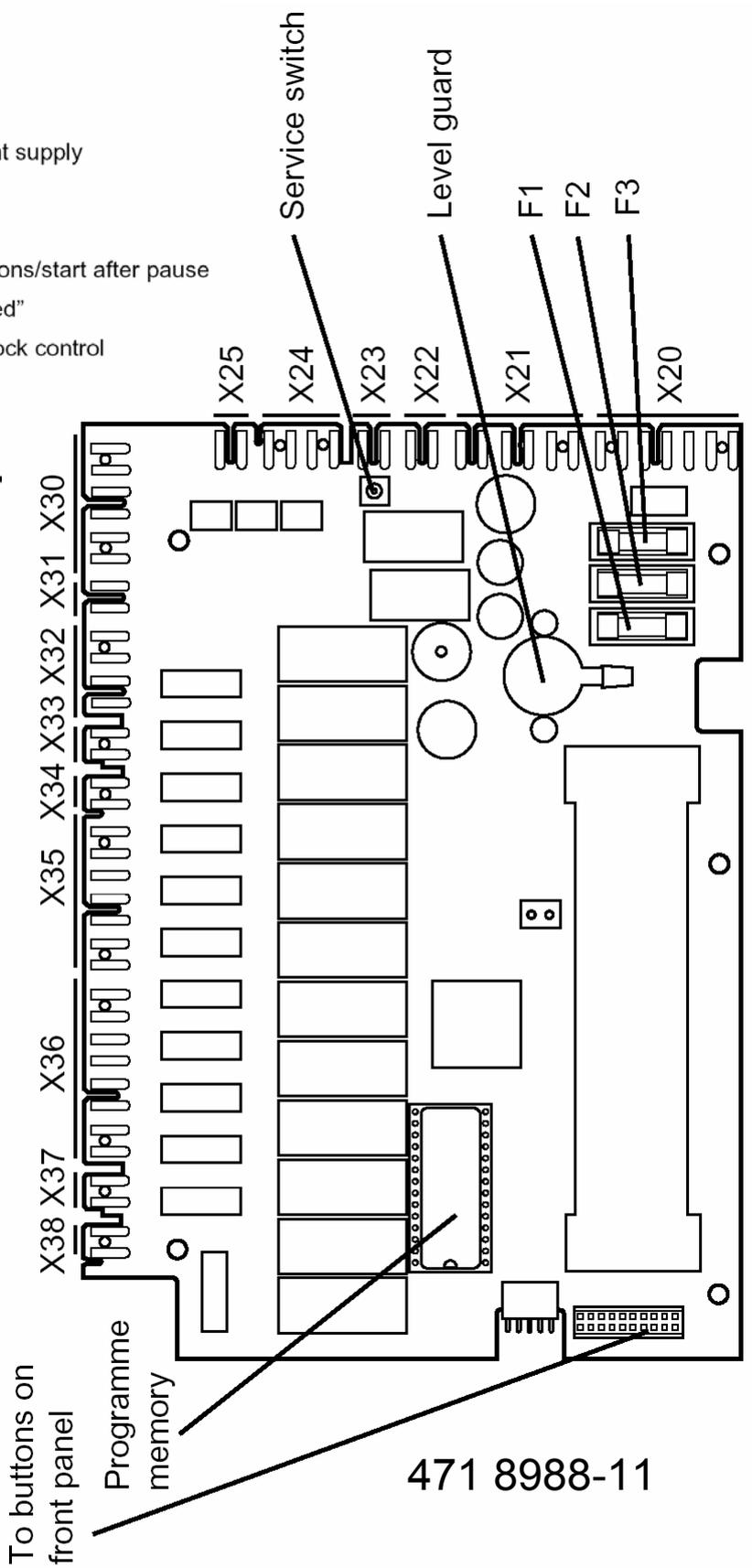
Service codes for Exacta
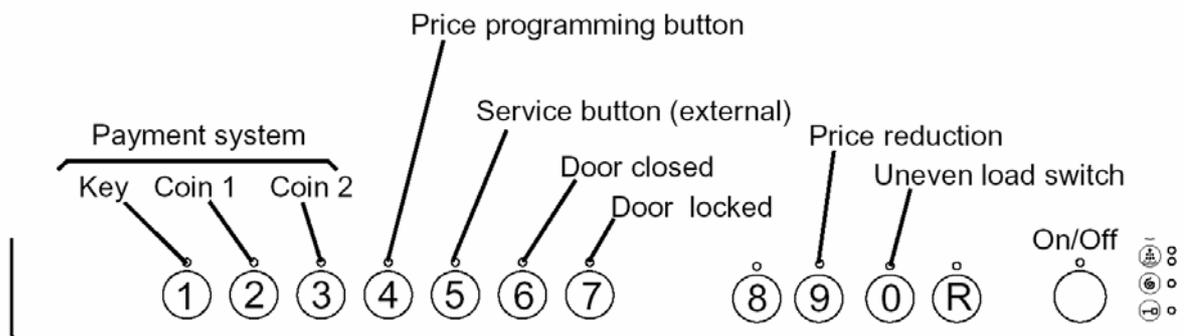
Using the front panel buttons, the various functions can be simulated by entering a service code. The functions can then be switched on and off using the **ON/OFF** button.

It is also possible to verify the input signals to the programme unit by watching the LEDs.

| Code	Funktion		
11	TM1/Re 2	X72:3 X53	(Y11)
12	TM2/Re 8	X73:2 X53	(Y12)
13	TM3/Re 4	X72:5 X53	(Y13)
14	TM4/Re 10	X73:4 X53	(Y22)
15	TM5/Re 5	X72:6 X53	(Y14/Y24)
16	TM6/Re 3	X72:4	
17	Hot/Re 11	X73:4 X53	(Y25)
18	Cold/Re 9	X73:3 X53	(Y15)
19	CHd, TM7/Re 6	X72:7 X52	(Y35)
21	Heat/Re 7	X73:1 X46:1	
22	Pump/Re 12 NC	X73:6 X51:1	
	Drain/Re 12 NO	X73:7 X50:1	
23	Prog off/Re 1 NC	X32:3	
	Prog on/Re 1 NO	X31:2	
	(Door lock)		
24	Level control. The level is displayed and not code 24. Pressing START, cold water is sprayed into detergent compartment 1.		
25	Motor, low drum revolution, clockwise		
26	Motor, low drum revolution, counter-clockwise		
27	Motor, medium drum revolution, clockwise		
28	Motor, medium drum revolution, counter-clockwise		
29	Motor, high drum revolution, clockwise		
31	Motor, high drum revolution, counter-clockwise		
32	Motor, high drum revolution, clockwise		
33	Motor, high drum revolution, counter-clockwise		
34	Distribution rotation, counter-clockwise		
35	Spinning at low speed, clockwise		
36	Spinning at medium speed, counter-clockwise		
37	Spinning at high speed, counter-clockwise		
38	Turbo spinning, counter-clockwise		

Code	Funktion

41-42 Coin counter.

43-44 Hour meter for total operating time (see section 23. Programme unit).

45 Latest detected error code.

51-54 Programme memory part number (see section 23. Programme unit).

61 Weight calibration (zero weight calibration).

71 Display window, segment test, LED test and buzzer.

72 Buzzer test.

73 LED test.

81-82 Price reduction input configuration, input X36: 1, 2 on programme unit card
(switch between 1 and 0 using the Start/Stop button).
81 = 0, 82 = 0 : Price reduction
81 = 1, 82 = 0 : Start condition
81 = 0, 82 = 1 : Remote start (parallel start button without quick advance).

91 Coin value, coin entry 1. Programmed using the price-programming button.

92 Coin value, coin entry 2. Programmed using the price-programming button.

93 Option to pause a coin operated machine. 1 = Yes, 0 = No. Programmed using
the price-programming button. Only active if coin value 1 not equal to zero.

94 Option to rapid advance a coin operated machine. 1 = Yes, 0 = No.
Programmed using the price-programming button. Only active if coin value 1
not equal to zero.

95 Show reservation on display when CALCAD.

96 Reset of the CALCAD 4400 setting. 1 = Yes, 0 = No. Programmed using the
priceprogramming
button. This parameter configured to 1 when the CALCAD 4400 unit is
installed.

97 Programming of price reduction on the coin box unit using the price
programming button. The price reduction is entered as a percentage from 0 to
99 with rounding to the
next higher coin value. A 99% price reduction implies a free wash.

For service codes regarding change of wash program: See page 8-9

A	13	A	06
	+		+
B	47	B	58
	=		=
1347 hour of running		**658 coin units**
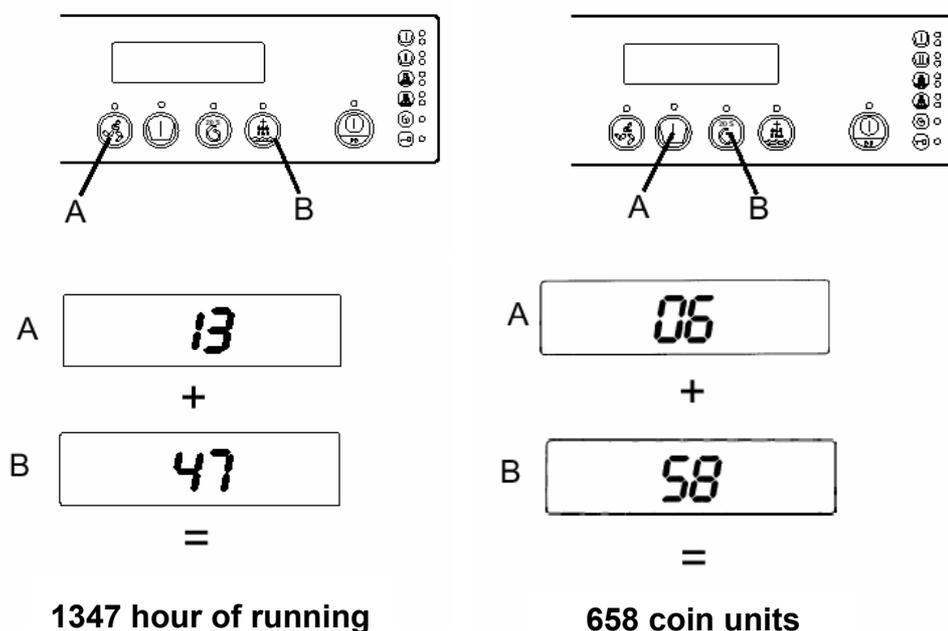
Generation 5

HS 255e / WE55MP, HS 265e / WE66MP, HS 2105e / WE106MP, HS 2120e / WE125MP, HS 2170e / WE175MP, HS 2220e / WE225MP, W75-100-160CC, W75-100-160MOP
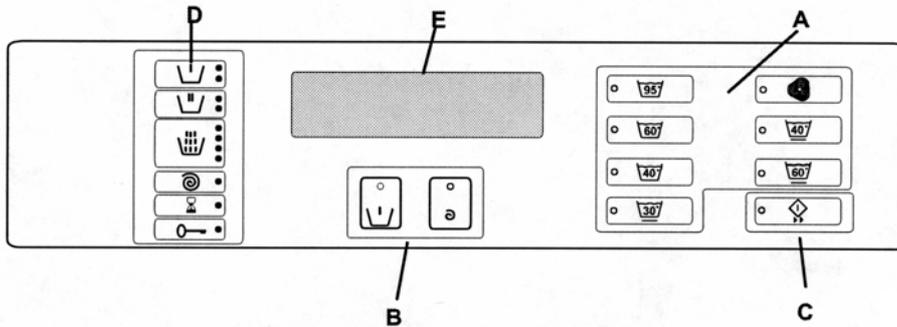
A. Programs
B. Options
C. Start and fast forward
D. Program step indicator
E. Display

Error Cause

01E Acknowledgement signal for water level not received within time allowed.
02E Door status acknowledgement signal not received during program operation.
03E Door lock acknowledgement signal not received within time allowed.
04E Temperature sensing device indicates temperature below -5°C (continuity fault).
05E Temperature sensing indicates temperature above 98°C (short-circuit).
06E Water level signal above parameter set, on program start-up.
07E Water level signal above parameter set for safety, during program.
08E Increase in water temperature is below parameter set.
10E Water level signal is above parameter set (10 scale units) after water discharge.
12E The program control unit cannot read the program EPROM.
13E The program control unit receives no response from the motor control unit.
14E Water level system not calibrated.
15E Door lock fault. The lock has a mechanical fault.
16E Wrong calibrated weight measuring system. Press START to start wash program. The program will now run, but the weight will be set to 5 kgs.
17E Door status acknowledgement signal not received, although door lock acknowledgement signal has been received.
18E Only with CALCAD 4400. Start not allowed because full payment has not been made for that program, or the booking time is too short to allow completion of the wash program selected.
19E Communications between the CALCAD 4400 and the program control unit board interrupted.
20E Motor control unit has not received signal for lock acknowledgement, during program.
31E Temperature of motor control unit heat sink too high.
32E Thermal protection for motor has cut out.
33E The motor control unit has received a start command from the program control unit without having the interlock signal. No fault in motor control unit interlock hardware.
35E Motor control unit indicating short-circuit between motor winding outputs.

16

36E   Motor control unit indicating fault/error in receiving circuitry for lock acknowledgement signal.
37E   Motor control unit indicating DC voltage level too low.
38E   Motor control unit indicating DC voltage level too high.
38E   HS255e / WE55MP + W75-100-160CC/MOP:
      Tachometer fault. The motor is inactive when it should be working.
40E   HS255e / WE55MP
      Fault in motor control. Motor has been working faster than expected.
45E-46E W75-100-160CC/MOP
      Tachometer fault. The motor is inactive when it should be working.
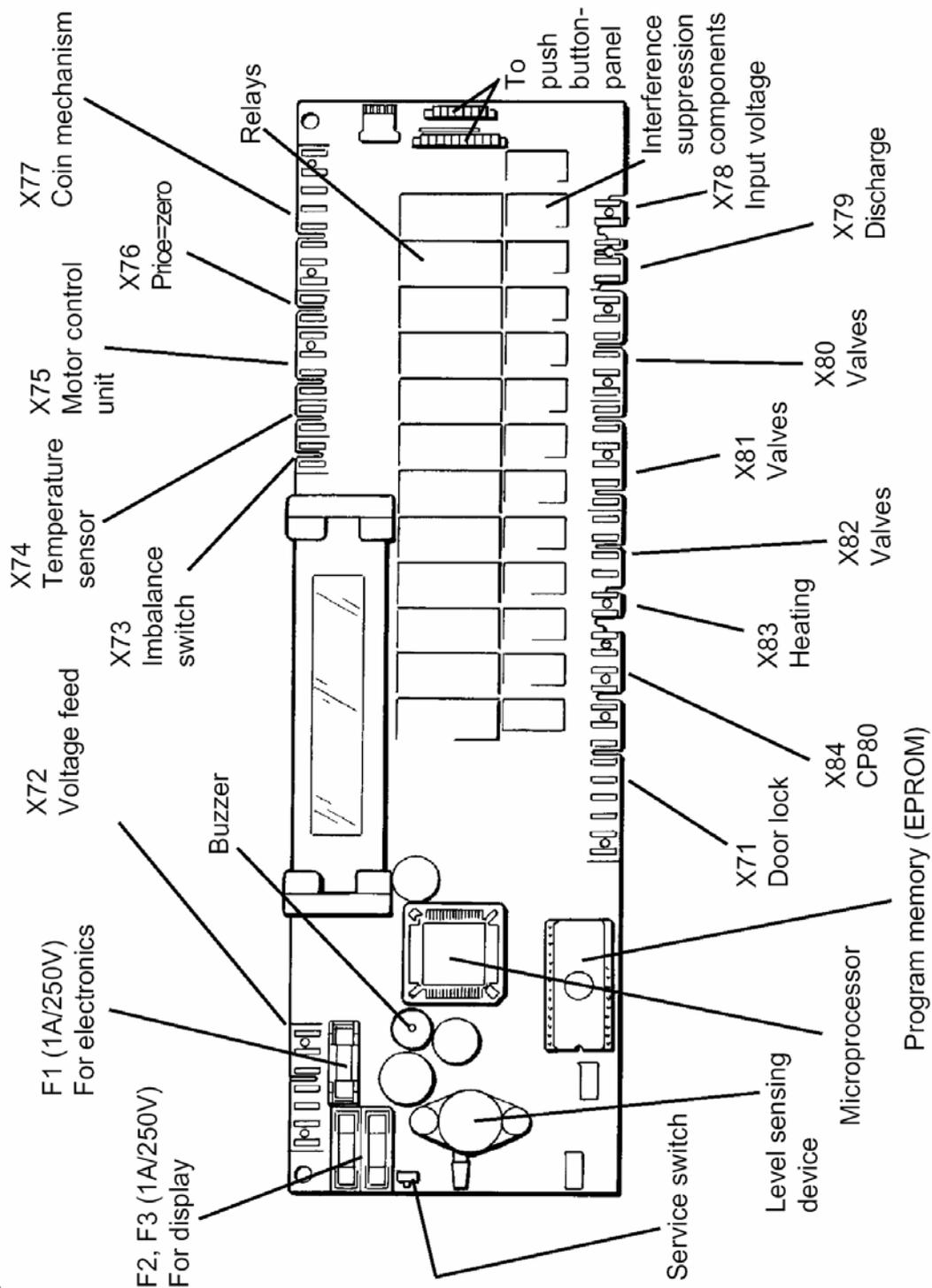
471 8988-01, 471 8988-02, 4718988-04

Service codes for gen. 5
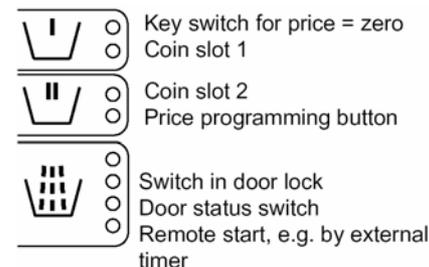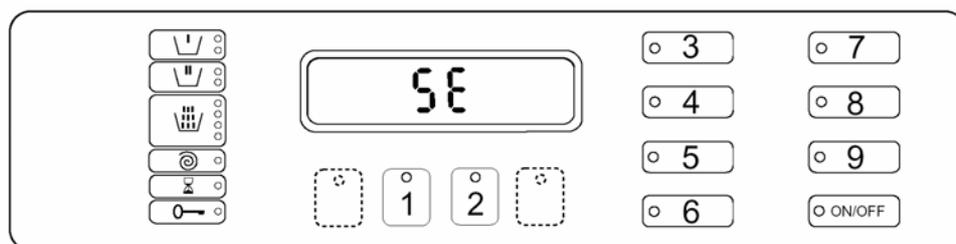
Some machine functions can be simulated by entering a numerical code via the keys.
This function can then be switched on and off with the **ON/OFF** key.

Code	Function
11	Detergent signal 1, liquid detergent.
12	Detergent compartment 2, cold water /Detergent signal 2, liquid detergent.
13	Detergent compartment 3, cold water /Detergent signal 3, liquid detergent.
14	Detergent compartment 2, hot water /Detergent signal 4, liquid detergent.
15	Detergent signal 5, liquid detergent.
16	Hot water in drum.
17	Detergent compartment 1, cold water.
18	Hard water in drum.
19	Heat: display shows actual temperature in drum, not code 19 When "START" is pressed, the heating relay reacts if the water level is above 64 scale units. (Safety level).
21	Discharge valve/pump
23	Activate door lock. When it is deactivated, the water discharge will also open.
24	Level check. The parameter corresponding to the actual level will be shown on the display, not code 24. When "START" is pressed, filling with cold water commences via detergent compartment 1.
25	Motor, wash speed low (30 rpm), anticlockwise.
26	Motor, wash speed low (30 rpm), clockwise.
27	Motor, wash speed high (48 rpm), anticlockwise.
28	Motor, wash speed high (48 rpm), clockwise.
29	Distribution speed (90 rpm), clockwise.
31	Extraction, low (550 rpm), clockwise.
32	Extraction, medium (700 rpm), clockwise.
33	Extraction, high (1000 rpm), clockwise.
34	Extraction, high (1000 rpm), clockwise.
35	Display, test of segments, LED test, and buzzer.
36	Buzzer
37	LED test
41-42	Coin mechanism
43-44	Counter (hours) for accumulated operating time
45	Last error code flagged.
51-54	Program EPROM part number
61	HS255e / WE55MP, Weight calibration, empty drum
62	HS255e / WE55MP, Weight calibration, 3 kg load
91	Coin value, coin slot 1. This is set using the priceprogramming switch
92	Coin value, coin slot 2. This is set using the priceprogramming switch
93	Availability of pause function in coin-operated machines. Can be 1 = Yes or 0 = No. This is set using the priceprogramming switch.

94   Availability of rapid advance function in coin-operated machines. Can be 1 = Yes or 0 = No. This is set using the price-programming switch

95   Activate coin-op input. Can be 1 = Active or 0 = Off. This is set using the price-programming switch

96   Resetting of CALCAD 4400 setting. Can be 1 = Active or 0 = Reset. This is set using the price-programming switch. When installing CALCAD 4400 this parameter will automatically be set to 1.

97   To program a price reduction on a coin-operated machine, use the price-programming button. You set a price reduction as a percentage between 0 and 99. Rounding-up will take place to the next coin value upwards. A price reduction of 99% means a free wash program.

Generation 3

MIDI HS2e / WE65MP, MESO HS E /WE105MP, MAXI HS E / WE120MP,
MEGA HS E / WE220MP, 902e / W74MP, 903e / W75MP, 1003e / W100MP,
1203e / W160 MP, 1803e / W230MP, 2703e / W330MP

A. Programs
B. Options
C. Start and fast forward
D. Program step indicator
E. Display

Error code	Error	Probable remedy/Solution
01	Water level not reached	Is the water shut-off valve open? Push START for restart.
02	Door lock in operative	Open and close door again. Push START for restart.
03	Sensor disconnected	Temperature sensor or in the cable between sensor and circuit board disconnected.
04	Sensor short circuit or Water temperature over 98°C	Shortcircut in sensor or in the cable between sensor and circuit board, or defect in heating relay / heating control
05	Water in machine	Check drain and level sensor system before program start
06	Machine memory fault	Prom defect
07	Machine heats incorrectly	Check heating system and thermostat.
08	Drain time too long	Check drain system.
09	Out-of-balance switch in operative	
18	Washprogram not paid	Start is not allowed before the progam is fully paid for
19	Communication failed	The intelligent communication from PCB to payment system has failed; Service code 96 is engaged and payment system is not present / not responding

Service codes for gen. 3

Coin fee programm button- 1 ←
Coin slot 1---------------------- 2 ←
Coin slot 2---------------------- 3 ←
Out-of-balance switch------- 4 ←
Safety lock--------------------- 5 ←
Price decrease 1-------------- 6 ←
Price decrease 2-------------- 7 ←
Free wash---------------------- 8 ←
----------------------------------- 9 ←
ON/OFF function------ O— 10 ←
(applies to functions input with
key set, see next chapter).
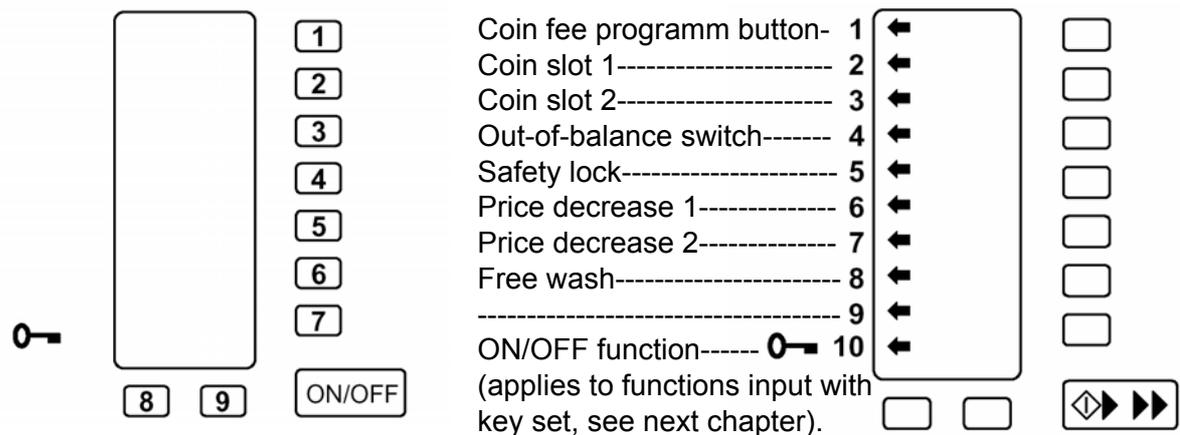
It is possible to test the machine's various functions by inputting a numerical code using the key set. The function chosen can then be turned on and off using the start button. Program indicator no. 10 shows if the function is turned on or off.

Sensor and switch checks: The program indicator displays certain input signals by illuminating the arrows in the display window. For example, arrow no. 5 lights up when the door is closed thereby showing that the door microswitch is functioning correctly.

| Code	Functions
11	Detergent compartment 1
12	Detergent compartment 2
13	Detergent compartment 3
14	Detergent compartment 4
15	Detergent compartment 5
16	Valve connection, hot water
17	Valve connection, cold water
18	Valve connection, hard water
19	Heat (The display window shows the machine temperature and not code "19").
21	Motor, clockwise rotation
22	Motor, counter-clockwise rotation
23	Distribution, counter-clockwise
24	Spin, counter-clockwise
25	Coupling
26	Drain valve
27	Drain
28	Level switch
96	Communication, ON=1 / OFF=0

WARNING!
Do not run the motor (codes 21 and 22) immediately after spin.
Wait until the drum has stopped to avoid major risk of damaging machine.

Gen. 3 PCB

Fuse 1A/250 V

X81 Out-of-balance switch

X83 Coin meter

Fuse 1A/250 V

X80 Temperature sensor

Interface RS232

X79 Level detection

X84 Free wash

X82 Voltage supply

Fuse 1A/250 V

Fuse 1A/250 V

Program memory   Microprocessor

Connection for buttons, front panel

Service switch
left = service
right = normal

X78 Option

X77 Valves

X76 Valves

X75 Drain

X74 Motor relays Clutch

X73

X70 Price decrease

X72 Door safety lock

X71 Main voltage to circuit board relays

471 8964-07, 471 8964-09 og 471 8964-12, 471 8964-13

22

Generation 2

MIDI HS / WE60MP, MIDI HS2e / WE65MP, MAXI HS E / WE120MP,
MEGA HS E / WE220MP, 902e / W74MP, 1202e / W124MP, 1802e / W184MP

A. Programs
B. Options
C. Start and fast forward
D. Program step indicator
E. Display

Error code	Error	Probable remedy/Solution
01	Water level not reached	Is the water shut-off valve open? Push START for restart.
02	Door lock in operative	Open and close door again. Push START for restart.
03	Sensor disconnected	Temperature sensor or in the cable between sensor and circuit board disconnected.
05	Sensor short circuit or Water temperature over 98°C	Shortcircut in sensor or in the cable between sensor and circuit board, or defect in heating relay / heating control
05	Water in machine	Check drain and level sensor system before program start
06	Machine memory fault	Prom defect
07	Machine heats incorrectly	Check heating system and thermostat.
08	Drain time too long	Check drain system.
09	Out-of-balance switch in operative	
10	Spin relay activated	Defect PCB – spin relay activated together with wash speed relay

Selecta

T3190, T3250, T3350, T3300S, T4250, T4350, T3900, T31200

Error code - Cause

E 01 Inlet air - input temperature is too high - The temperature of the air entering the drum is too high. Error code is not shown in the display from version 3.22

E 02 Outlet air - Output temperature is too high - The temperature of the air leaving the drum is too high. Error code is not shown in the display from version 3.22

E 03 Inlet air - Sensor has short-circuited - The thermistor element measuring the air inlet temperature to the drum or the wiring to the sensor has shorted.

E 04 Outlet air - Sensor has short-circuited - The thermistor element measuring the air outlet temperature from the drum, or the wiring to the sensor has shorted.

E 05 Blower motor – Motor 1 The thermal protection switch in the motor or its harness, is open.

E 06 Drum motor – Motor 2 The thermal protection switch in the motor or its harness, is open.

E 08 Inlet and Outlet air protection thermostats - One of the proctection thermostats has opened due to overheating.

E 09 Lint drawer - Lint drawer must be emtied before start

E 10 Setting - Programming error / incorrect or missing parameter(s)

E 11 Drying error - Maximum allowable RMC time exceeded (non-coin operated models only)

E 12 Drying error - Maximum allowable Autostop time exceeded (non-coin operated models only)

E 13 Drying error - Requested drying time is longer than maximum allowed. (Dryer connected to a payment system) . Error code is not shown in the display from version 3.22

E 14 Gas error - A flame was not detected on gas heated dryers

E 15 Vacuum switch - The vacuum switch does not shut within 5 seconds after the dryer is started.

E 16 Vacuum switch - The vacuum switch was already closed when an attempt to start the dryer was made.

E 17 Input sensor disconnected - The inlet thermistor or wiring to the thermistor is open.

E 18 Output sensor disconnected - The outlet thermistor or wiring to the thermistor is open. Error code is not shown in the display from version 3.22

E20 CMIS is not monitoring the machine – The machine is deactivated in the CMIS-program. Error code is introduced from version 3.24

E21 Communication brakedown CMIS – The communication has stopped, it is still possible to start the machine. Error code is introduced from version 3.24

E22 Communication brakedown LM10 – The communication has stopped, it is not possible to start the machine. Error code is introduced from version 3.24

E 99 Communication error - The user module does not recieve communication from the main board - (user module and main board).
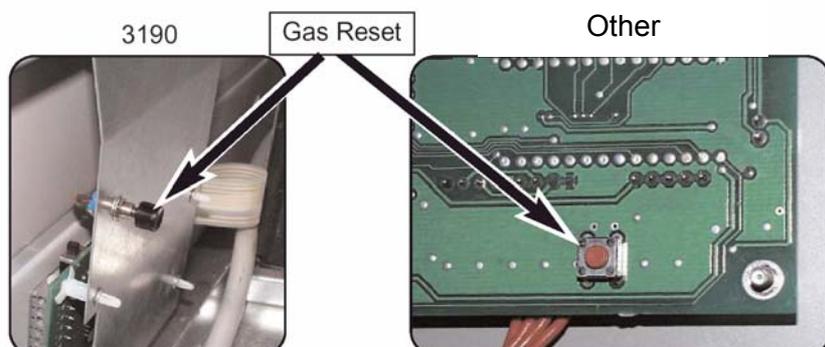
Selecta PCB

Hardware version 3.12 shown, For older versions; Observe the position of P12A
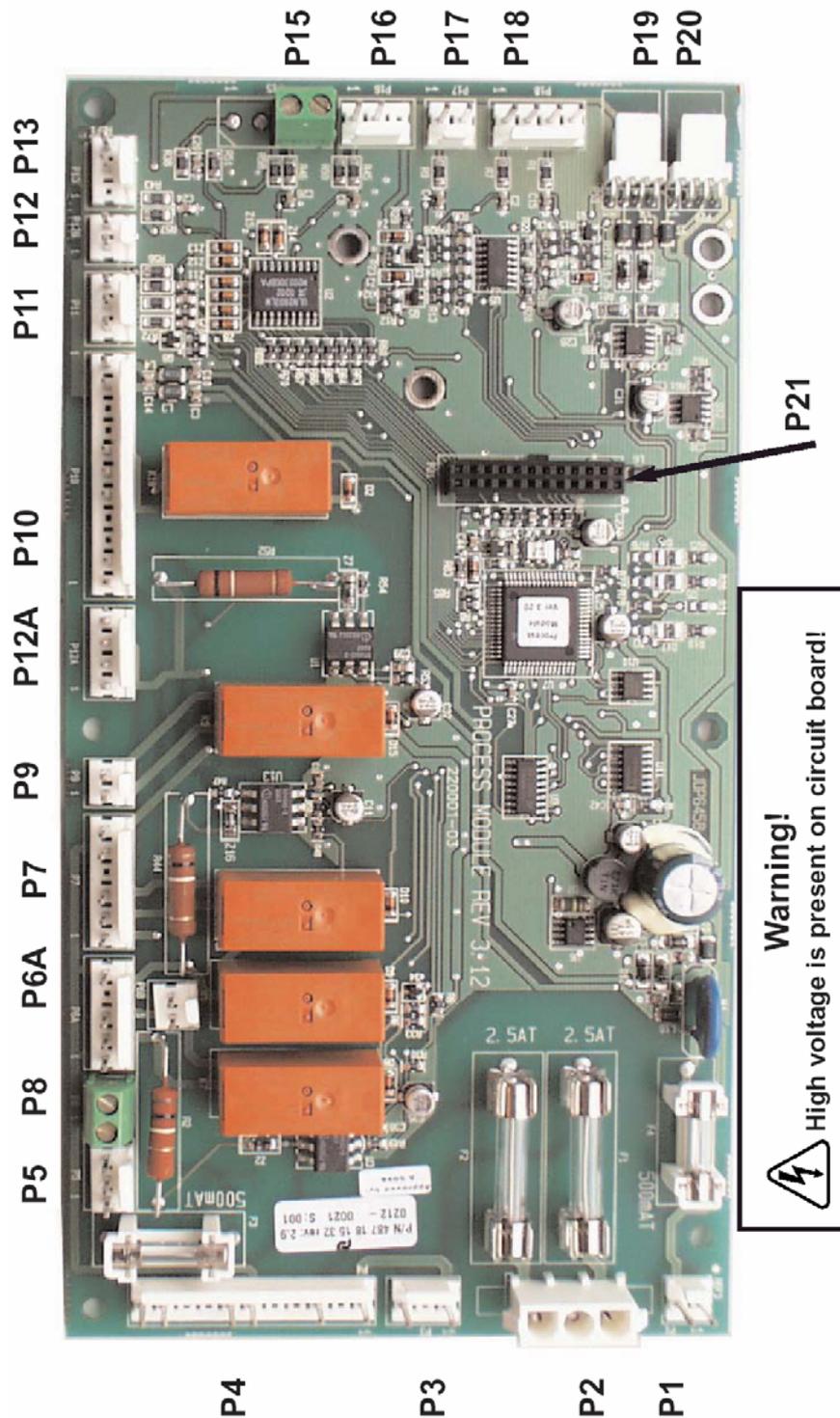
P1	18V INPUT	
P2	POWER IN, 120-480V	
P3	POWER OUT, 120 – 480V	
P4	CONFIG	
P5	210V OUT	
P6A	MOTOR 1 / OVERHEAT	
P6B	FAN ON, EXT. INPUT	
P7	MOTOR 2	
P8	EXT. 210V OUT	
P9	EXT. RELAY	
P10	HEAT	

P11	GAS CONTROL
P12A	DOOR SWITCH
P12B	FILTER DOOR SWITCH
P13	CONDENS UNIT
P15	EXT. INPUT 1
P16	VACUUM SWITCH
P17	REST MOISTURE CONTROL
P18	NTC-SENSORS, IN AND OUT
P19	USER MODULE
P20	-
P21	COMMUNICATION

Parameter overview

Para-meter / group	Designation Area A	Range	Step	Factory setting °C	Comments
Group 0	Setting temperatures and drying time				
0 01	High temperature	30 - 70°C	1°C	70	Air outlet temperature High
0 02	Medium temperature	30 - 70°C	1°C	60	Air outlet temperature Medium
0 03	Low temperature	30 - 70°C	1°C	50	Air outlet temperature Low
0 04	No heat temperature	-	-	-	
0 05	Discount	0 - 99 %	1 %	50	Only on coin operated dryers
0 06	Time per push or coin 1	1 – 90 mins.	1 min.	15	Time interval
0 07	Time per coin 2	1 – 90 mins.	1 min.	30	Time interval
Group 1	Reading total counters				
	To move from group 0 to group 1 press <Return> till **0 _ _** and then press <Up> until **1 _ _**				
1 01	*Hour counter	0 – 999999 hrs.	-		Permanent total hour counter
1 02	Hour counter	0 – 999999 hrs.	-		Resettable trip hour counter
1 03	*Service hour counter	0 – 999999 hrs.	-		Hours before next service
1 04	*Coin counter 1	0 – 999999 coins	-		Total no. of coins inserted (coin type1)
1 05	*Coin counter 2	0 – 999999 coins	-		Total no. of coins inserted (coin type 2)
Group 2	Entering code to Area B				
	To move from a lower group to group 2 press <Return> till **0 _ _** and then press "Up" untill **2 _ _**				
2 01	Code to Area B				

To access "Area B"

To access "Area B" (where parameter group 3 to 9 + group A are located), the passcode "01" must be entered into parameter register 2 01, as follows:

1. Press <**Down**>	(P)	the display reads	**2 _ _**
2. Press <**Enter**> 3 times	(C)(C)(I)	the display reads	**00** (blinks)
3. Press <**Up**>	(clock)	the display reads	**01** (blinks)
4. Press <**Enter**>	(I)	the display reads	**_ 01**
5. Press <**Return**> twice	(return)	the display reads	**2 _ _**

You are now in "Area B".

26

Parameter overview

Para-meter / group	Designation Area B	Range	Step	Factory setting	Comments
Group 3	**Reading error log**				
To move from a lower group to group 3 press <Return> till **0 _ _** and then press <Up> till **3 _ _**					
3 01	*Last error log n		-	info.	Shows last occured error
3 02	*Error log (n-1)		-	info.	Second latest error code
3 03	*Error log (n-2)		-	info.	Third latest error code
3 04	*Error log (n-3)		-	info.	Fourth latest error code
3 05	*Error log (n-4)		-	info.	Fifth latest error code
3 06	Option				
3 07	*Base software version		-	info.	Software version
3 08	*Userpanel software version			info.	Software version
3 09	*Identification of version part 1			info.	Identification of version
3 10	*Identification of version part 2			info.	Identification of version
Group 4	**Setting dryer type**				
To move from a lower group to group 4 press <Return> till **0 _ _** and then press <Up> till **4 _ _**					

		Range	Step	Comments	
4 01	Reversing	0 - 1	1	0 = OFF / 1 = ON	
4 02	Type of heating	1 - 5	1	1 = el 2 = gas spark 3 = gas glow 4 = steam/HP 5 = option	
4 03	Payment setting	0 - 8	1	0 = no paying. 1 = coin 1 positive (NC) 2 = coin 1 negative (NO) 3 = coin 1-2 positive (NC) 4 = coin 1-2 negative (NO) 5 = CP Time 6 = Single 7 = CP coin 8 = Master System	9 = LM10
4 04	Type of Control Panel	0 - 4	1	0 = Dryer type 3190 1 = coin 2 = AHL 3 = OPL 4 = Japan	
4 05	Programme	0 - 4	1	0 = Coin 1 = OPL RMC. 2 = AHL RMC. 3 = OPL Auto Stop. 4 = AHL Auto Stop	
4 06	Factory setting	0 - 1	1	1 = Establish default setting (reset) **Note!** The resetting deletes all changes made since the dryer left the factory	

NOTE
4 01 and 4 02:
Special settings for versions later than 3.20, see next page

Regarding parameters for CMIS/LM10, see next page

Para-meter / group	Designation	Range	Step	Factory setting	Comments
4 01	Reversing	00 - 01	1	0 / 1	0 = OFF / 1 = ON
4 02	Type of heating	01 - 11	1	01	Electric 3190, 3250/3350
				02	Gas normal 3190, 3300, 4250/4350
				03	Gas (JP+US) 3190, 3300, 3030,3250/3350
				04	Steam 3250/3350, 4250/4350
					LE (Low energi) 3300LE
				05	Steam 3900/31200
				06	Electric 3300, 4250/4350
				07	Gas normal 4250/4350
				08	Gas (JP+US) 4250/4350
				09	Electric 3900/31200
				10	Gas normal 3900/31200
				11	Gas (JP+US) 3900/31200, 100/135

Para-meter / group	Designation	Range	Step	Factory setting	Comments
4 07	Com-module address				1-127, 0 = not active
4 08	Com-module baud rate				1 = 2400 baud CMIS / LM10
4 09	Com-module time out setting				CMIS = 5, LM10 = 90
4 10	Dryer type			1	-
				2	Dryer type 3190
				3	Dryer type 3250
				4	Dryer type 3350
				5	Dryer type 3300 / 3030
				6	-
				7	-
				8	-
				9	-
				10	Dryer type 4250
				11	Dryer type 4350
				12	Dryer type 3900
				13	Dryer type 31200

Parameter overview

| Para-meter / group	Designation Area B	Range	Step	Factory setting °C	Comments
Group 5	Setting control of temperatures in time programmes and control of drum and buzzer				
	To move from a lower group to group 5 press <Return> till **0 _ _** and then press <Up> till **5 _ _**				
5 01	Temperature °C	0 - 1	0 / 1	0	0 = °C
5 02	Temperature hysteresis	00 – 99 °C	1	2	Hysteresis in °C
5 03	Rotation clockwise	01 – 99 minutes	1	5/25	Only if reversing is ON (T3190 = 25)
5 04	Pause between reversing	01 – 99 seconds	1	3	Only if reversing is ON (T3900/31200 = 15)
5 05	Reversing (1 motor dryers)	01 – 99 seconds	1	15	1 motor = seconds (T3190 = 15 seconds)
- -	Reversing (2 motor dryers)	01 – 99 minutes.	1	5	Dryers with 2 motors = minutes
5 06	Anticrease	0-1	0/1		0 = OFF / 1 = ON
5 07	Beep on key press	0-1	0/1		0 = OFF / 1 = ON
5 08	Beep at cycle end	0 – 99 seconds	1		0 – 99 seconds
5 09	Cooling, time, High temp.	0-20 mins.	1	3	With time control, cooling time
5 10	Cooling, time, Med. temp.	0-20 mins.	1	3	With time control, cooling time
5 11	Cooling, time, Low temp.	0-20 mins.	1	3	With time control, cooling time
5 12	Option 1				
5 13	Cooling, temp. (High).	30-85°C	1	45 / 115	Time without coin (45°C and 3 min.)
5 14	Cooling, temp. (Medium).	30-85°C	1	45 / 115	Time without coin (45°C and 3 min.)
5 15	Cooling, temp. (Low).	30-85°C	1	45 / 115	Time without coin (45°C and 3 min.)
5 16	Option 2				
Group 6	Setting maximum values				
	To move from a lower group to group 6 press <Return> till **0 _ _** and then press <Up> till **6 _ _**				
6 01	Number of P programmes	1 – 9	1	9/6	Only if AutoStop or RMC is selected
6 02	Inlet temperature				
- -	T3190 Electric heated	80-140°C	1	140	First 2 digits
- -	T3190 Gas heated	80-190°C	1	190	Last 2 digits
- -	Steam, heat pump	0	-	0	
- -	Other electric heated	80-150°C	1	150	
- -	Other gas heated	80-160°C	1	160	
6 03	Max. time on time control	10 – 90 mins.	1	90	Max. time which can be selected (also coin)
6 04	Max. time on P programs	30 – 90 mins.	1	90	Max. time on AutoStop or RMC

Inlet temperature	°C / °F
Type 3190 Electric heated	140 / 285
Type 3190 Gas heated	190 / 375
Steam, heat pump	0
Type 4250/4350 Electric heated	155 /310
Type 4250/4350 Gas heated	155 / 310
Other electric heated	150 / 300
Other gas heated	160 / 320

Parameter overview

Para-meter / group	Designation Area B	Range	Step	Factory setting C°	Comments
Group 7	**Setting programs**				
	To move from a lower group to group 7 press <Return> till **0** _ _ and then press <Up> till **7** _ _				
7 01	Residual moisture P1	0 – 57%	1%	0	Residual moisture % for P1 = 00%
7 02	Residual moisture P2	0 – 57%	1%	0	Residual moisture % for P2 = 0%
7 03	Residual moisture P3	0 – 57%	1%	5	Residual moisture % for P3 = 5%
7 04	Residual moisture P4	0 – 57%	1%	10	Residual moisture % for P4 = 10%
7 05	Residual moisture P5	0 – 57%	1%	15	Residual moisture % for P5 = 15%
7 06	Residual moisture P6	0 – 57%	1%	20	Residual moisture % for P6 = 20%
7 07	Residual moisture P7	0 – 57%	1%	0	Residual moisture % for P7 –
7 08	Residual moisture P8	0 – 57%	1%	0	Residual moisture % for P8 –
7 09	Residual moisture P9	0 – 57%	1%	0	Residual moisture % for P9 –
7 10	Extra drying time P1	0 – 99 mins.	1	5/10	Extra drying time P1 = 5 minutes / HP = 10 mins.
7 11	Extra drying time P2	0 – 99 mins.	1	0/5	Extra drying time P2 = 0 minutes / HP = 5 mins.
7 12	Extra drying time P3	0 – 99 mins.	1	0	Extra drying time P3 = 0 minutes
7 13	Extra drying time P4	0 – 99 mins.	1	0	Extra drying time P4 = 0 minutes
7 14	Extra drying time P5	0 – 99 mins.	1	0	Extra drying time P5 = 0 minutes
7 15	Extra drying time P6	0 – 99 mins.	1	0	Extra drying time P6 = 0 minutes
7 16	Extra drying time P7	0 – 99 mins.	1	0	Extra drying time P7 = 0 minutes
7 17	Extra drying time P8	0 – 99 mins.	1	0	Extra drying time P8 = 0 minutes
7 18	Extra drying time P9	0 – 99 mins.	1	0	Extra drying time P9 = 0 minutes
7 19	Time/Automatic control P1	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 20	Time/Automatic control P2	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 21	Time/Automatic control P3	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 22	Time/Automatic control P4	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 23	Time/Automatic control P5	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 24	Time/Automatic control P6	0 –01	0/1	1	0 = Time/1 = Automatic programme
7 25	Time/Automatic control P7	0 –01	0/1	0	0 = Time/1 = Automatic programme
7 26	Time/Automatic control P8	0 –01	0/1	0	0 = Time/1 = Automatic programme
7 27	Time/Automatic control P9	0 –01	0/1	0	0 = Time/1 = Automatic programme
7 28	Temperature for P1	30-70°C	1	70	Air outlet temperature
7 29	Temperature for P2	30-70°C	1	70	Air outlet temperature
7 30	Temperature for P3	30-70°C	1	70	Air outlet temperature
7 31	Temperature for P4	30-70°C	1	70	Air outlet temperature
7 32	Temperature for P5	30-70°C	1	70	Air outlet temperature
7 33	Temperature for P6	30-70°C	1	70	Air outlet temperature
7 34	Temperature for P7	30-70°C	1	70	Air outlet temperature
7 35	Temperature for P8	30-70°C	1	70	Air outlet temperature
7 36	Temperature for P9	30-70°C	1	70	Air outlet temperature

Parameter overview

| Para-meter / group	Designation Area B	Range	Step	Factory setting °C	Comments
7 37	Drying time P1	0 – 100 mins.	1	(20)	Time programme P1 -
7 38	Drying time P2	0 – 100 mins.	1	(20)	Time programme P2 -
7 39	Drying time P3	0 – 100 mins.	1	(20)	Time programme P3 -
7 40	Drying time P4	0 – 100 mins.	1	(20)	Time programme P4 -
7 41	Drying time P5	0 – 100 mins.	1	(20)	Time programme P5 -
7 42	Drying time P6	0 – 100 mins.	1	(20)	Time programme P6 -
7 43	Drying time P7	0 – 100 mins.	1	10	Time programme P7 10 mins.
7 44	Drying time P8	0 – 100 mins.	1	20	Time programme P8 20 mins.
7 45	Drying time P9	0 – 100 mins.	1	30	Time programme P9 30 mins.
7 46	Cooling down P1	30-85°C	1	45	Temperature (45°C and 3 min.)
7 47	Cooling down P2	30-85°C	1	45	Temperature (45°C and 3 min.)
7 48	Cooling down P3	30-85°C	1	45	Temperature (45°C and 3 min.)
7 49	Cooling down P4	30-85°C	1	45	Temperature (45°C and 3 min.)
7 50	Cooling down P5	30-85°C	1	45	Temperature (45°C and 3 min.)
7 51	Cooling down P6	30-85°C	1	45	Temperature (45°C and 3 min.)
7 52	Cooling down P7	30-85°C	1	45	Temperature (45°C and 3 min.)
7 53	Cooling down P8	30-85°C	1	45	Temperature (45°C and 3 min.)
7 54	Cooling down P9	30-85°C	1	45	Temperature (45°C and 3 min.)
7 55	Cooling down P1	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 56	Cooling down P2	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 57	Cooling down P3	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 58	Cooling down P4	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 59	Cooling down P5	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 60	Cooling down P6	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 61	Cooling down P7	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 62	Cooling down P8	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 63	Cooling down P9	0 – 20 minutes	1	3	Time (45°C and 3 min.)
7 64	Reversing P1	0 - 01	0/1	1	0 = OFF / 1 = ON
7 65	Reversing P2	0 - 01	0/1	1	0 = OFF / 1 = ON
7 66	Reversing P3	0 - 01	0/1	0	0 = OFF / 1 = ON
7 67	Reversing P4	0 - 01	0/1	0	0 = OFF / 1 = ON
7 68	Reversing P5	0 - 01	0/1	0	0 = OFF / 1 = ON
7 69	Reversing P6	0 - 01	0/1	1	0 = OFF / 1 = ON
7 70	Reversing P7	0 - 01	0/1	1	0 = OFF / 1 = ON
7 71	Reversing P8	0 - 01	0/1	1	0 = OFF / 1 = ON
7 72	Reversing P9	0 - 01	0/1	1	0 = OFF / 1 = ON

Parameter overview

Para-meter / group	Designation Area B	Range	Step	Factory setting	Comments
Group 8	**Resetting counters**				
	To move from a lower group to group 8 press <Return> till **0 _ _** and then press <Up> till **8 _ _**				
8 01	Reset service counter	0 - 01	0/1		1 = Reset counter
8 02	Reset trip meter counter		0/1		1 = Reset counter
Group 9	**Various tests**				
	To move from a lower group to group 9 press <Return> till **0 _ _** and then press <Up> till **9 _ _**				
9 01	Test output 0	01			Heat 3 seconds
9 02	Test output 1	01			Drum left 3 seconds
9 03	Test output 2	01			External signal 3 seconds
9 04	Test output 3	01			Fan 3 seconds
9 05	Test output 4	01			Drum right 3 seconds
9 06	Test input 0	00 - 01		0/1	Control of door switch 0 = Open / 1 = closed
9 07	Test input 1	00 - 01		0/1	Control of vacuum switch 0 = Open / 1 = closed
9 08	Test input 2	00 - 01		0/1	Control of external switch 0 = Open / 1 = closed
9 09	Test input 3	00 - 01		0/1	Control of condensation filter switch 0 = Open / 1 = closed
9 10	Test input 4	00 - 01		0/1	Control of filter door switch 0 = Open / 1 = closed
9 11	Test input 5	00 - 01		0/1	Control of overheating 0 = OK / 1 = Error
9 12	Test input 6	00 - 01		0/1	Control of gas error inlet 0 = OK / 1 = Error
9 13	Test input 7	00 - 01		0/1	Control of motor 1 overheating 0 = OK / 1 = Error
9 14	Test input 8	00 - 01		0/1	Control of motor 2 overheating 0 = OK / 1 = Error
Group A*	**Setting user display information**				
	To move from a lower group to group A press <Return> till **0 _ _** and then press <Up> till **1 _ _**				
A 01	Standby value	0 - 999	1		Value shown when dryer is free
A 02	Standby value blinks	on/off	1	1/0	Value blinks when dryer is free
A 03	Final blinks	on/off	1	1/0	Final symbol blinks
A 04	Show temperature	on/off	1	1/0	Enable to show temperature when key activated
Group B	**Manufacturer settings**				
B 01	**Manufacturer's use only**				

Quick-diagram

Enter

Return

Main groups   /   Subgroups

Area A

0 88	Group 0 - Temperature / drying time See Selecta Control manual supplied the dryer	0 01 - 0 07
1 --	Group 1 - Reading total counters See Selecta Control manual supplied the dryer	1 01 - 1 05
2 --	Group 2 - Code to area B	

Area B

Up

Down

P

2 --	You are now in Area B	
3 88	Group 3 - Error log	3 01 - 3 11
4 --	Group 4 - Setting dryer	4 01 - 4 10
5 --	Group 5 - Setting control of temp. etc.	5 01 - 5 16
6 --	Group 6 - Setting maximum values	6 01 - 6 04
7 --	Group 7 - Setting programs	7 01 - 7 72
8 --	Group 8 - Resetting counters	8 01 - 8 02
9 --	Group 9 - Various tests	9 01 - 9 14
A --	Group A - Setting user display info	A 01 - A 04
b --	Group b - Manufacturer's use only	

See "Changing factory setting" on the following page

Basic 2 and Basic 3
130T, 166T, 200T, 270T, T2130, T3290, T3530, T3650

A. Filter: When the lamp is lit, the filter must be cleaned.
B. Not active on machines controlled by a central control panel.
C. Operating lamp/indicator: Ready to start.
D. Timer button, not active on payment machines.
E. Start/stop button.
F. Temperature selection button.
G. Lamps: lit to indicate selected temperature.
H. Temperature.

Error codes

These machines feature automatic fault reporting, displayed in the form of flashing error codes.

F1 = **Setting of machine type and variety is missing.**
"F1" is shown while the print board is being changed or if the power is connected to the machine while the service program is active. (Machine type and variety should be set in the service program.)

F4 = **The thermal sensor is disconnected.**
Loose or broken connection.
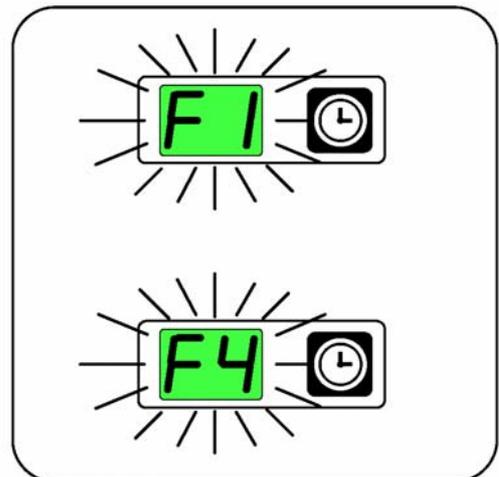
Basic 2 and 3 - Service program
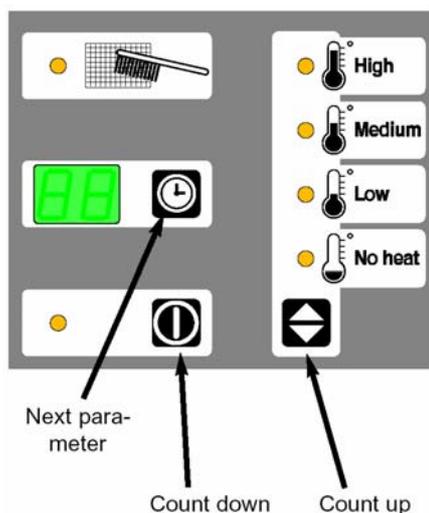
Important: Door must be open when entering service program

| Parameter listing	130/166	200/270	300/500/750
01 - high temperature 85°C	72	72	85
02 - high temperature 70°C	50	50	70
03 - no heat / low temperature 50°C	- -	- -	50
04 - temperature hysteresis	03	02	02
05 - time interval	15	5,0	15
06 - max time + "coin 2"	60	60	60
07 - reversing time	5,0	5,0	5,0
08 - cooling time	03	03	03
09 - P1 extra dry	F0	F0	F0
10 - P2 ready to put away	F0	F0	F0
11 - P3 iron dry	30/0C (norm / cond) 10 (166)	20	30
12 - P1 extra-drying time	09	09	09
13 - P2 extra-drying time	03	03	03
14 - P3 extra-drying time	00	00	00

Parameter 0 – Machine type	130/166	200/270	200/270	300/500/750	300/500/750
	Norm. / cond.:	with reversing	without reversing	With reversing	without reversing
Manual control	-	-	-	30	10
Manuel auto RMC	00	60	40	70	50
Coin control	01	61	41	31	11
Coin control, Japan	-	-	-	71	51
CP (central panel control)	02	62	42	32	12
Manual time control	-	63	43	-	-
CP (free, (wo.paying))	43	-	-	-	-

Deluxe control
Mesodry / TT200, Maxidry / TT270, TT600RMC

10 button type shown. Deluxe is also build i other variants with 4 bottons (3 temperature bottons and 1 start botton) and 7 buttons (3 temperature bottons, 1 automatic stop - botton, 2 time bottons and 1 start botton)

A. Program selection buttons
B. Temperature symbols
C. Lamp lit for selected program
D. Start button
E. Lamp flashes / ready to start
F. Drying / lamp is lit
G. Cooling / lamp is lit
H. Drying time completed / lamp is lit
I. Filter/lamp is lit: Clean filter
J. The display shows drying time / residual time, in time control mode
K. Timer buttons for desired drying time; one push = one minute
L. Select residual moisture control program by pressing one of the buttons:
    1. Extra dry
    2. Ready-to-put-away
    3. Iron dry, for the iron
    4. Iron dry, for ironing machine
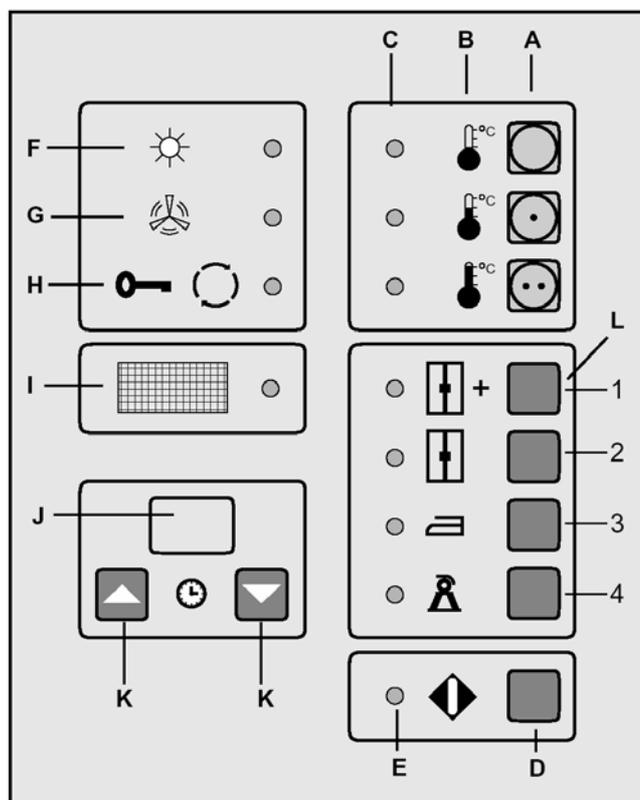
| Error code	Error	What is wrong? What to do?
F1	Brown-out	20% lowering of voltage from power plant: Can be started when the voltage is back to normal.
F3	Heating fault	Fault on inlet sensor or heating element: Disconnect mains for a moment. If the fault occurs again: call in service.
F4	Outlet sensor	Fault on outlet sensor: Disconnect mains for a moment. If the fault occurs again: call in service.
F5	Wrong variant	Wrong combination of switches on PCB All lamps go out: call in service.
F6	Electronic fault	Micro-processor fault: call in service.
F7	Service program	Service program wrongfully engaged: is only to be engaged with the machine door open.
F9	Vacuum switch fault	Vacuum switch fault: call in service.

Deluxe Service program

Parameters 1-7	LED: On = ☀ / Off = ○	Value, factory setting	To change : *Press button for:*
Cool-down time	1	Value = Min. sec. **0,0 - 9,6** Factory setting: 3,0	Longer time Shorter time Factory setting Store value / shift to next
Temperature 50° (HP = 45°)	2	Value = Degrees C. ± 7°C Factory setting: 50°C **Special** factory setting for machine with heat pump (HP) Value : min. 40°C, max. 50°C Factory setting: 45°C	Higher max. 7° Lower max. 7° Factory setting Store value / shift to next
Temperature 70° (HP = 53°)	3	Value = Degrees C. ± 7°C Factory setting: 70°C **Special** factory setting for machine with heat pump (HP) Value : min. 50°C, max. 60°C Factory setting: 53°C	Higher max. 7° Lower max. 7° Factory setting Store value / shift to next
Maximum running time per start	4	Value = Minutes **15 - 90** Factory setting: 40	Longer time Shorter time Factory setting Store value / shift to next
Reversing	5	Value = **1 / 0** With/without reversing Factory setting: 1 med	With revers. =1 W.out revers.=0 Factory setting Store value / shift to next
Reversing time	6	Value = Min. sec. **0,2 - 9,6** Factory setting: 2,3	Longer time Shorter time Factory setting Store value / shift to next
Reversing pause time	7	Value = Sec. **3 - 20** Factory setting: 3	Longer time Shorter time Factory setting Store value / shift to next
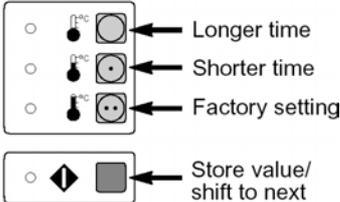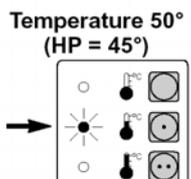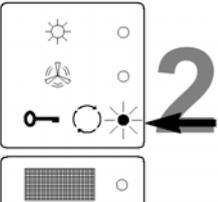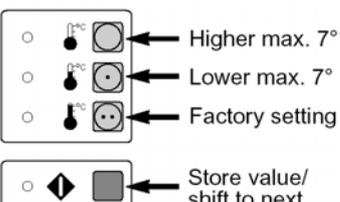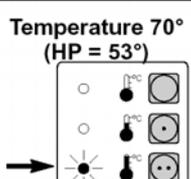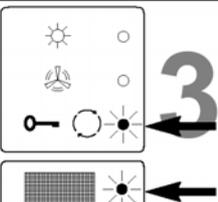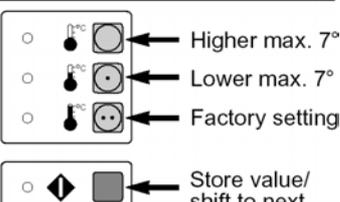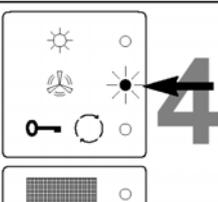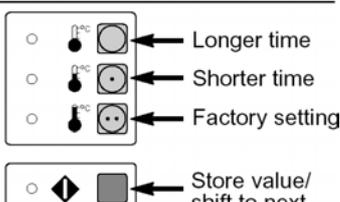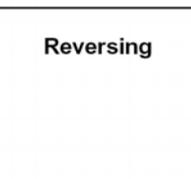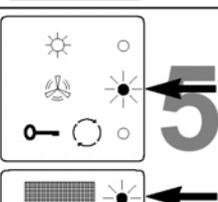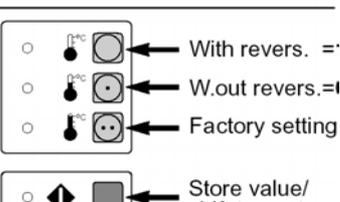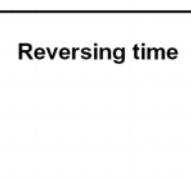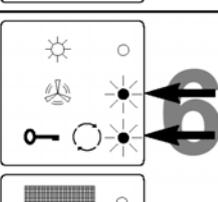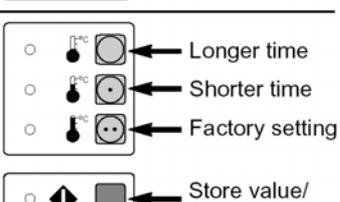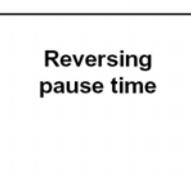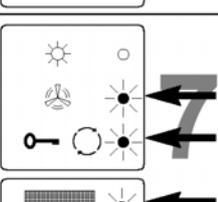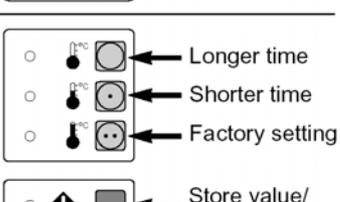
Concerning machines with *Residual moisture control program:*
Go to parameter 16 (page 24).

Only on machines with coin / central panel operation

| Parameters 8-15	LED: On = ☀ Off = ○	Value, factory setting	To change : Press button for:
Coin operation - running time	8	Value = Min. sec. **0,1 - 60** Factory setting: **3,0**	Longer time Shorter time Factory setting Store value/ shift to next
Coin operation - running time 50°	9	Value = Min. sec. **0,1 - 60** Factory setting: **3,0**	Longer time Shorter time Factory setting Store value/ shift to next
Coin operation - running time 70°	10	Value = Min. sec. **0,1 - 60** Factory setting: **3,0**	Longer time Shorter time Factory setting Store value/ shift to next
Two coin slots. Coin slot 2. Coin value for coin slot 2 E.g.: 50 p. = 5	11	Value = **1 - 50 times** Factory setting: **05**	More Less Factory setting Store value/ shift to next
Discount per- centage: at times of day with cheaper tar- iffs. (external timer)	12	Value = Percentage **5, 10 ,15, 20,......max. 50%** Factory setting: **25%**	Higher % Lower % Factory setting Store value/ shift to next
Min. operating time: More than one coin needed before starting.	13	Value = Minutes **0 - 30** Machine starts only if multiple coins inserted Factory setting: 0 min.	Longer time Shorter time Factory setting Store value/ shift to next
Central panel. Machine operates with no charge. Max. 30 min. per. start	14	Value = **0 / 1** **0** = pay at central panel **1** = free of charge Factory setting: **00**	No charge =**1** Charge = **0** Factory setting Store value/ shift to next
Two coin slots. Coin slot 1. Coin value for coin slot 1 E.g.: 10 p. = 1	15	Value = **1 - 50 times** Factory setting: **01**	More Less Factory setting Store value/ shift to next
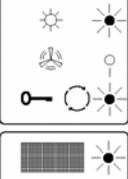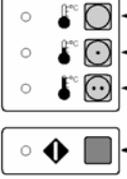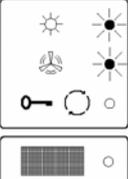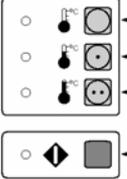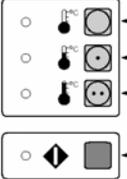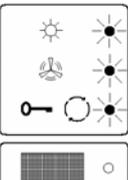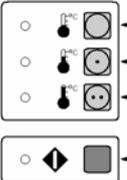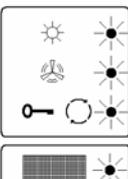
38
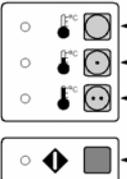
Only on machines with residual moisture control

Parameter 16-19	LED: On = ☀ Off = ○	Value, factory setting	To change : *Press button for:*
Residual moisture control — Extra dry (16)	☀ ⊞ + ▢ / ○ ⊡ ▢ / ○ ▭ ▢ / ○ ⍓ ▢	Value = Residual moisture **n9 - 30%** Factory setting: **n6** $n6 = 0\% + 6$ minutes' extra drying $(n1 - n9 = 1\text{-}9$ minutes$)$	○ 🌡◯ ← Higher % / ○ 🌡⊙ ← Lower % / ○ 🌡⊡ ← Factory setting / ○ ◆ ▢ ← Store value/ shift to next
Residual moisture control — Dry (17)	○ ⊞ + ▢ / ☀ ⊡ ▢ / ○ ▭ ▢ / ○ ⍓ ▢	Value = Humidity **0 - 30 %** Factory setting: **0 %**	○ 🌡◯ ← Higher % / ○ 🌡⊙ ← Lower % / ○ 🌡⊡ ← Factory setting / ○ ◆ ▢ ← Store value/ shift to next
Residual moisture control — Iron dry (18)	○ ⊞ + ▢ / ○ ⊡ ▢ / ☀ ▭ ▢ / ○ ⍓ ▢	Value = Humidity **0 - 30 %** Factory setting: **13 %**	○ 🌡◯ ← Higher % / ○ 🌡⊙ ← Lower % / ○ 🌡⊡ ← Factory setting / ○ ◆ ▢ ← Store value/ shift to next
Residual moisture control — Iron dry for ironing machine (19)	○ ⊞ + ▢ / ○ ⊡ ▢ / ○ ▭ ▢ / ☀ ⍓ ▢	Value = Humidity **0 - 30 %** Factory setting: **21 %**	○ 🌡◯ ← Higher % / ○ 🌡⊙ ← Lower % / ○ 🌡⊡ ← Factory setting / ○ ◆ ▢ ← Store value/ shift to next
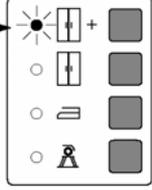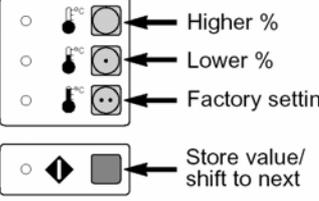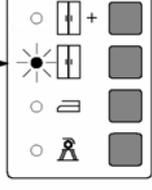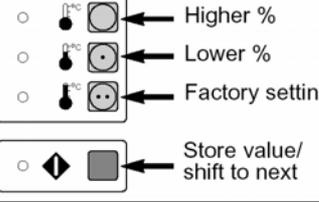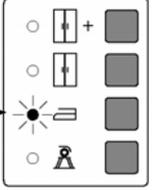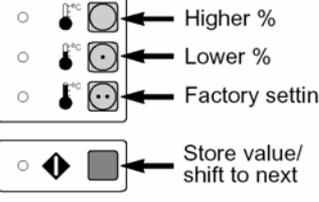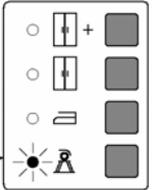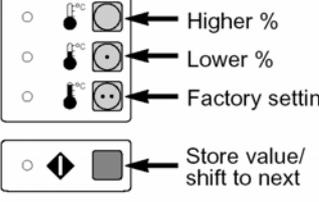
Note! Parameters 8 - 15 are not used (with residual moisture control).

39

Version setting - De luxe version

```
 1 2 3 4 5 6 7 8
```
Coin-operated

```
 1 2 3 4 5 6 7 8
```
CP 800 / CALCAD

```
 1 2 3 4 5 6 7 8
```
Manual
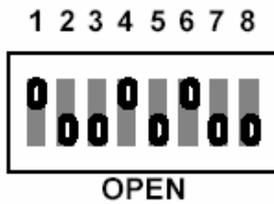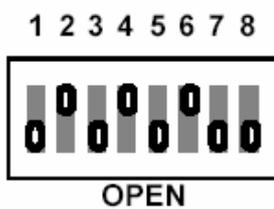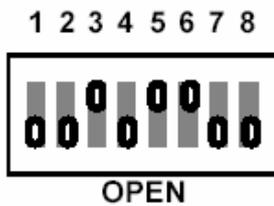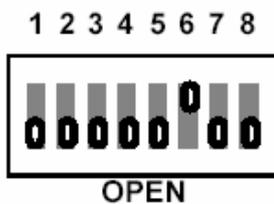
```
 1 2 3 4 5 6 7 8
```
Manual with moisture sensor

Switch no. 6

ON = Reversing allowed.
OPEN = No reversing (this option is then removed from the service program).

40